

Archaeological Resources

Airport Vicinity Development Checklist

Parking Study

Trip Generation Comparison

Parking Master Plan



# Planning and Development Services Division Historic Preservation Office

7447 East Indian School Road

Scottsdale, Arizona 85251

Documentation Requirements for the Blood Systems, Inc. (Vitalant) 6210 East Oak Street COS Cases 3-GP-2020 and 7-ZN-2020 June 10, 2020

- 1. A cover letter containing the relevant information needed to complete a review of the project includes the following items:
  - a. A description of the project (including all planned actions), definition of the project area of potential effects (APE), and the applicant's efforts to identify historic resources and obtain and consider the view of affected local governments, Indian Tribes, and other interested parties. For architectural properties, indicate whether the proposed action is an addition, replacement, repair, or demolition.
  - b. An evaluation of the eligibility of those resources for inclusion in the City of Scottsdale Historic Register (SHR), the Arizona or National Register of Historic Places (A/NRHP), including a recommendation of eligibility by the applicant.
  - c. A description of the cultural and historic resources that might be impacted directly, indirectly, or cumulatively by the proposed actions. This should include a discussion of the potential impacts of the undertaking on all SHR-eligible resources and the basis for these statements.
  - d. A finding of effect by the applicant; appropriate findings are: No Historic Properties Affected; No Adverse Effect; or Adverse Effect. There can be only one finding of effect for a given undertaking/plan.
  - e. A description and evaluation of the alternatives evaluated for the project. This should include alternatives specifically designed to avoid impacts to cultural resources or historic properties. An example would be restoration or rehabilitation of an existing historic structure rather than demolition.
  - f. Requested action on the part of Scottsdale Historic Preservation Officer (e.g., concurrence with definition of the APE, concurrence on determinations of eligibility, concurrence with a finding of effect, etc.).
- 2. A cultural resource inventory is necessary to evaluate whether or not: a) cultural or historic resources are present in the project area; b) any identified cultural or historic resources are eligible for listing on the City of Scottsdale Historic Register (SHR); and, c) the proposed project will adversely affect any City of Scottsdale Historic Register (SHR), the Arizona or National Register of Historic Places (A/NRHP) eligible properties that are eligible for, or listed on SHR or A/NRHP.
- 3. Measured drawings of the existing property and building, including a site plan, floor plan(s), building elevations of all sides of the building.
- 4. Photographs of the existing property and building.
- 5. Description of construction materials, methods, and techniques that are unique to the existing property and building.



April 21, 2020

Mr. Chuck Chisholm K. Hovnanian Phoenix Division, Inc. 20830 North Tatum Boulevard, Suite 250 Phoenix, Arizona 85050



Expires 30 JUN 22

## RE: TRAFFIC STATEMENT FOR MULTIFAMILY DEVELOPMENT NORTH SIDE OF OAK STREET ROAD WEST OF 64TH STREET – SCOTTSDALE, ARIZONA

Dear Mr. Chisholm:

Thank you for engaging CivTech to prepare this traffic statement for the proposed multifamily housing development, proposed to redevelop four existing parcels as 89 dwelling units (DUs) of multifamily residential housing, located on the north side of Oak Street west of 64<sup>th</sup> Street in the City of Scottsdale, Arizona.

The existing four parcels include approximately 8.14 acres of office space (currently occupied by Vitalant Blood Bank) zoned as Service Residential (SR), approximately 1.38 acres of vacant land zoned as SR, and approximately 0.28 acres zoned as Single-Family Residential (R1-10). The proposed project would combine the four parcels into a single development under the zoning of Medium Density Residential District (R-3). There is a single proposed full access driveway for the site located on Oak Street. The vicinity of the site is shown in **Figure 1**. The proposed site plan is included as an **Attachment A**.



FIGURE 1 - VICINITY MAP

### **EXISTING CONDITIONS**

## Existing Land Use

As mentioned previously, the existing four parcels include approximately 8.14 acres of office land use (currently occupied by the Vitalant Blood Bank) zoned as SR, approximately 1.38 acres of vacant land zoned as SR, and approximately 0.28 acres zoned as R1-10. Utilizing an assumed Floor Area Ratio (FAR) of 0.3, over the 9.52 acres zoned as SR, results in approximately 124,000 SF of existing office space. There is also one (1) vacant lot of single family residential housing.

## Existing Roadway Network

**64<sup>th</sup> Street** is a north-south 4-lane roadway classified as a minor arterial by the City of Scottsdale. Within the vicinity of the site, 64<sup>th</sup> Street has two (2) through lanes and a bike in each direction of travel separated by a raised median. Just north of the intersection of 64<sup>th</sup> Street and Oak Street, and on the east side of 64<sup>th</sup> Street, a local two (2) lane frontage roadway with one (1) through lane in each direction of travel is separated from the arterial 64<sup>th</sup> Street by a concrete wall. The posted speed limit for the 64<sup>th</sup> Street minor arterial is 40 miles per hour (mph). The posted speed limit for the 64<sup>th</sup> Street local street is 25 mph.

**Oak Street** is an east-west 2-lane roadway classified as a minor arterial roadway by the City of Scottsdale. Within the vicinity of the site, Oak Street has one (1) through lane and a bike lane in each direction of travel. The posted speed limit is 30 mph.

## Existing Site Access

The current development has four (4) existing site driveways along Oak Street that provide access to the existing Vitalant Blood Bank facility. All four driveways provide full movement access. The first driveway is located in the east side of the existing facility on Oak Street approximately 665 feet west of 64<sup>th</sup> Street and will be removed upon build out. The second driveway is located approximately 830 feet west of 64<sup>th</sup> Street and will be reconfigured upon build out. The third driveway is located approximately 1,025 feet west of 64<sup>th</sup> Street and will be removed upon build out. The fourth driveway is located approximately 1,259 feet west of 64<sup>th</sup> Street and will also be removed upon buildout.

### PROPOSED DEVELOPMENT

## Proposed Land Use

The proposed development will consist of 89 DUs of multifamily housing and will be located north of Oak Street west of 64<sup>th</sup> Street in the City of Scottsdale, Arizona. The land is currently occupied by approximately 8.14 acres of office space zoned as Service Residential (SR), approximately 1.38 acres of vacant land zoned as SR, and approximately 0.28 acres zoned as Single-Family Residential (R1-10).



## Site Access

There is a single proposed full access driveway located on Oak Street approximately 840 feet west of 64<sup>th</sup> Street. The existing driveway at this location will be reconfigured for the proposed project. The driveway will be one way stop controlled, with a stop sign on the southbound approach, while the eastbound and westbound approaches remain free-flow.

## Adjacent Street Volumes

CivTech reached out to the City of Scottsdale for the most recent 24-hour directional traffic counts on Oak Street. The City of Scottsdale conducted a traffic count on January 14, 2020 for each approach of the intersection of 64<sup>th</sup> Street and Oak Street. For the purpose of this project, CivTech is analyzing the roadway adjacent to the site; which is the eastbound and westbound approaches along Oak Street. The AM and PM peak hour bi-directional counts are indicated in **Figure 2**. The traffic count data sheets are provided in **Attachment B**.

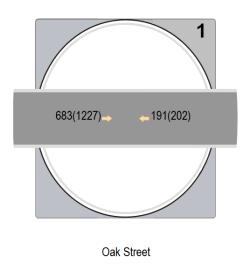


FIGURE 2 – ADJACENT STREET VOLUMES AM(PM)

### Trip Generation

The potential trip generation for the proposed development was estimated utilizing the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 10^{th} Edition* and *Trip Generation Handbook,*  $3^{rd}$  *Edition.* The ITE *Trip Generation Manual* contains data collected by various transportation professionals for a wide range of different land uses. The data are summarized in the report and average rates and equations have been established that correlate the relationship between an independent variable that describes the development size and generated trips for each categorized land use. The report provides information for daily and peak hour trips.



The existing scenario land use code (LUC) for the single-family home is LUC 210 and for the General Office Building is LUC 710.

The proposed development will consist of 89 multifamily homes. The LUC for multifamily homes is LUC 221. The trip generation comparison for the existing development and the proposed development is summarized in **Table 1**. Detailed trip generation calculations are included as an **Attachment C**.

TABLE 1 - TRIP GENERATION AND COMPARISON

	ITE		Daily	AM	l Peak l	lour	PM Peak Hour			
Proposed Use	LUC	Size Units*	Total	In	Out	Total	In	Out	Total	
Original Build Scenario										
Single-Family Homes	210	1 DU	16	2	4	6	1	0	1	
General Office Building	710	127 KSF	1,308	123	20	143	22	118	140	
<b>Total External Trips</b>			1,324	125	24	149	23	118	141	
Proposed Build Scenario										
Multifamily (Mid-Rise) Housing	221	89 DUs	484	8	23	31	24	16	40	
Total External Trips			484	8	23	31	24	16	40	
Difference of Total Trips (Pr	roposed	- Original)	-840	-117	-1	-118	1	-102	-101	

<sup>\*</sup> KSF = 1,000 Square Feet; DUs = Dwelling Units

As summarized in **Table 1**, the proposed development is anticipated to generate 484 weekday daily trips with 31 trips occurring (8 in/23 out) during the AM peak hour and 40 trips occurring (24 in/16 out) during the PM peak hour. Comparing the trip generations from the existing land uses to the proposed land use, the proposed development is anticipated to generate 840 fewer weekday daily trips with 118 fewer trips occurring (-117 in/-1 out) during the AM peak hour and 101 fewer trips occurring (1 in/-102 out) during the PM peak hour.



## **CONCLUSIONS**

From the above, the following can be conducted:

- The project is proposed to redevelop four existing parcels as 89 dwelling units (DUs) of multifamily residential housing replacing the existing four parcels that include approximately 8.14 acres of office space (currently occupied by Vitalant Blood Bank), zoned as Service Residential (SR), approximately 1.38 acres of vacant land, zoned as SR, and approximately 0.28 acres, zoned as Single-Family Residential (R1-10).
- The proposed development is anticipated to generate 484 weekday daily trips with 31 trips occurring (8 in/23 out) during the AM peak hour and 40 trips occurring (24 in/16 out) during the PM peak hour.
- Comparing the existing land use to the proposed land use, the proposed development is anticipated to generate 840 fewer weekday daily trips with 118 fewer trips occurring (-117in/-1 out) during the AM peak hour and 101 fewer trips occurring (1 in/-102 out) during the PM peak hour.

Thank you for allowing CivTech to assist you on this project. Please contact me with any questions you may have on this statement.

Sincerely,

## CivTech

Benjamin A. Good, P.E., PTOE

Project Manager/Senior Traffic Engineer

## Attachments (3)

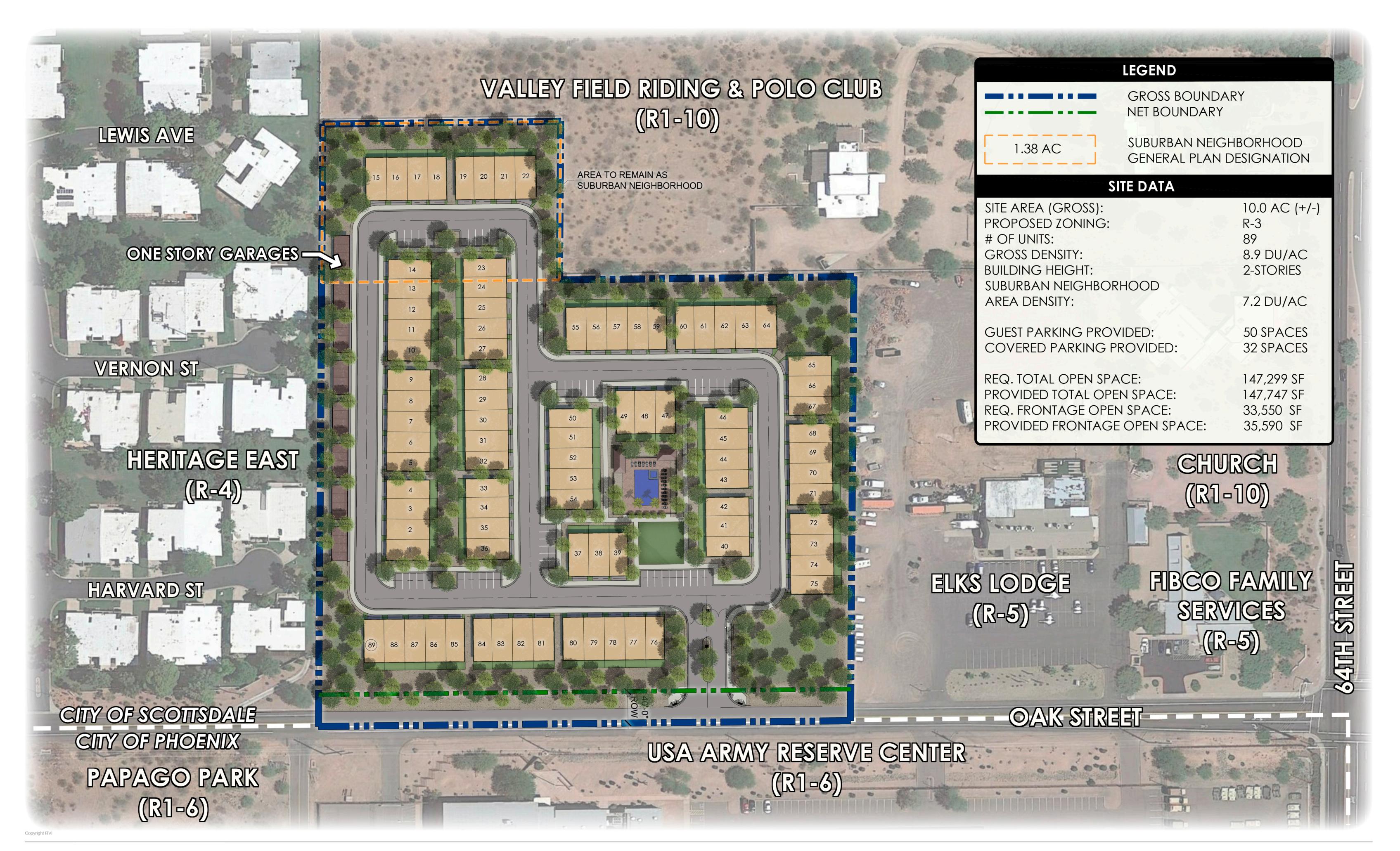
A. Site Plan

B. Traffic Count Data

C. Trip Generation Calculation

Z:\Civtech\Projects\20-0410 K.Hovnanian Luna MFD @ Oak & 64th Streets Traffic Statement, Scottsdale\Submittals\1st Submittals\1st Submittal\Oak & 64th Traffic Statement Draft.docx









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Proposed March 2020

#### **Methodology Overview**

This form facilitates trip generation estimation using data within the Institute of Transportation Engineer's (ITE) *Trip Generation Manual*, 10th Edition and methodology described within ITE's *Trip Generation Handbook*, 3rd Edition. These references will be referred to as *Manual and Handbook*, respectively. The *Manual* contains data collected by various transportation professionals for a wide range of different land uses, with each land use category represented by a land use code (LUC). Average rates and equations have been established that correlate the relationship between an independent variable that describes the development size and generated trips for each categorized LUC in various settings and time periods. The *Handbook* indicates an established methodology for how to use data contained within the Manual when to use the fitted curve instead of the average rate and when to adjustments to the volume of trips are appropriate and how to do so. The methodology steps are represented visually in boxes in Figure 3.1. This worksheet applies calculations for each box if applicable.

#### Box 1 - Define Study Site Land Use Type & Site Characteristics

The analyst is to pick an appropriate LUC(s) based on the subject's zoning/land use(s)/future land use(s). The size of the land use(s) is described in reference to an independent variable(s) specific to (each) the land use (example: 1,000 square feet of building area is relatively common).

Land Use Types and Size

Proposed Use	Amount Units	ITE LUC	ITE Land Use Name
Homes	1.000 Dwelling Units	210	Single-Family Detached Housing
General Office Building	124 1,000 square feet	710	General Office Building
Apartments	89 Dwelling Units	221	Multifamily Housing (Mid-Rise)

#### Box 2 - Define Site Context

Context assessment is to "simply determine whether the study sites is in a multimodal setting" and "could have persons accessing the site by walking, bicycling, or riding transit." This assessment is used in Box 4. The *Manual* separates data into 4 setting categories - **Rural**, **General Urban/Suburban**, **Dense Multi-Urban Use** and **Center City Core**. This worksheet uses the following abbreviations, respectively: **R**, **G**, **D**, and **C**. The *Manual* does not have data for all settings of all land use codes. See the table on the next page titled "Site Context and Time Periods" - if this table is not provided, the "General Urban/Suburban" setting is used by default.

#### Box 3 - Define Analysis Objectives Types of Trips & Time Period

This tool will focus on vehicular trips for a 24-hour period on a typical weekday as well as its AM peak hour and PM peak hour. Other time period(s) may be of interest.

Site Context and Time Periods - Actual Setting, Setting Data Available for LUC, Setting Used in Analyses

		ADT		AM Peak H	lour	PM Peak H	our	(not used)	
Proposed Use	Setting	Available	Used	Available	Used	Available	Used		
Homes	General Urban/Suburbar G	G	G	G	G	G	G		
General Office Building	General Urban/Suburbar G	G	G	GDC	G	GDC	G		
Apartments	General Urban/Suburbar G	G D	G	G D	G	G D	G		

If the desired setting is not available within the Manual, adjustments may be made in Boxes 6 through 8.

#### Box 4 - Is Study Site Multimodal?

Per the Handbook, "if the objective is to establish a local trip generation rate for a particular land use or study site, the simplified approach (Box 9) may be acceptable but the Box 5 through 8 approach is required if the study site is located in an infill setting, contains a mix of uses on-site, or is near significant transit service."



Proposed March 2020

#### Box 5/Box 9 - Estimate Baseline Trips/Estimate Vehicular Trips (Determine Equation)

Vehicle trips are estimated using rates/equations applicable to each LUC. When the appropriate graph has a fitted curve, the *Handbook* has a process (Figure 4.2) to determine when to use it versus using the weighted average rate or collecting local data. The methodology requires for engineering judgement in some circumstances and permits engineering judgement to override or make adjustments when appropriate to best project (example 1: study site is expected to operate differently than data in the applicable land use code - such as restaurant that is closed in the morning or in the evening; example 2: LUC data in a localized area fails to be represented by the typically selected fitted curve/weighted average rate - a small shop/LUC 820, AM peak hour is skewed by the high y-intercept).

Equation Type: Equation Used [Equated Rate] (Type Abbreviations: Weighted Average Rate ("WA"), Fitted Curve ("FC"), or Custom ("C"))

Proposed Use	ADT		AM Peak Hour	PM Peak Hour	(not used)
Homes	: LN(T)=0.92*LN(X)+2.71 [15.	0.95	FC: T=0.71*X+4.8 [5.51]	FC: LN(T)=0.96*LN(X)+0.2 [1.22]	
General Office Building	: LN(T)=0.97*LN(X)+2.5 [10.5	0.83	FC: T=0.94*X+26.49 [1.15]	FC: LN(T)=0.95*LN(X)+0.36 [1.13]	
Apartments	FC: T=5.45*X-1.75 [5.43]	0.77	FC: LN(T)=0.98*LN(X)-0.98 [0.34]	FC: LN(T)=0.96*LN(X)-0.63 [0.45]	

#### Box 5/Box 9 - Estimate Baseline Trips/Estimate Vehicular Trips (Apply Equations and in/out Distributions)

#### Baseline Vehicular Trips

		А	DT			AM Peak Hour			PM Peak Hour				(not used)
Proposed Use	% In	In	Out	Total	% In	In	Out	Total	% In	In	Out	Total	
Homes	50%	8	8	16	25%	2	4	6	63%	1	0	1	
General Office Building	50%	654	654	1,308	86%	123	20	143	16%	22	118	140	
Apartments	50%	242	242	484	26%	8	23	31	61%	24	16	40	
Totals		904	904	1,808		133	47	180		47	134	181	

#### Box 6 - Convert Baseline Vehicle Trips to Person Trips

If no vehicle trip reductions are to be applied, this portion may be ignored. The *Handbook* states "There are not enough samples to derive precise percentages by mode...however, for all but one, ...the motor vehicle percentage of total person trips is at least 96 percent." and "[vehicle occupancy for] many of the most commonly analyzed land use codes are not [available]." This form assumes that the total baseline vehicle trips for all land use codes accounts for 90% of total person trips. Unless otherwise specified, this form later reverses the conversion in Box 8.

#### Other Trips

	A	ADT			AM Peak Hour			ak Hour		(not used)
Proposed Use	In	Out	Total	In	Out	Total	In	Out	Total	
Homes	8	8	16	2	4	6	1	0	1	
General Office Building	654	654	1,308	123	20	143	22	118	140	
Apartments	242	242	484	8	23	31	24	16	40	
Totals	904	904	1,808	133	47	180	47	134	181	



## **School District**

School District Determination of Adequate Facilities

## **Determination of Adequate Facilities**



City of Scottsdale Project Number: 41PA- 2020
Project name: Luna on Oak
Project Location 6210 E. Oak Street
Applicant Name: John Berry Phone: 602-385-2727
Applicant E-mail: JB@BerryRiddell.com Fax: 602-385-2757
School District: Balsz Unified
I,hereby certify that the following determination has been made in regards to the
Referenced project:
The school district had adequate school facilities to accommodate the projected number of additional students generated by the proposed rezoning within the school district's attendance area; or
The school district will have adequate school facilities via a planned capital improvement to be constructed within one year of the date of notification of the district and located within the school district's attendance area; or
The school district has determined an existing or proposed charter school as contracted by the district can be provide adequate school facilities for the projected increase in students; or
The applicant and the school district have entered into an agreement to provide, or help to provide, adequate school facilities within the school district's attendance area in a timely manner (a copy said agreement is attached hereto); or
The school district does not have adequate school facilities to accommodate projected growth attributable to the rezoning.
Attached are the following documents supporting the above certification:
☐ Maps of the attendance areas for elementary, middle and high schools for this location.
Calculations of the number of students that would be generated by the additional homes.
School capacity and attendance trends for the past three years.
Or;
I,, hereby request a thirty (30) day extension of the original discussion and
response time.
Superintendent or Designee Date
Planning and Dovelonment Services
Planning and Development Services 7447 E. Indian School Road, Suite 105, Scottsdale, AZ 85251 ♦ www.ScottsdaleAZ.gov

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