TANGERINE RD. & FIRST AVE. (SILVERHAWKE BLOCK 5) REZONING SITE ANALYSIS

PREPARED BY:



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I. INTRODUCTION

This site analysis has been prepared in support of a proposed downzoning of approximately 13.44 acres of commercially zoned land southeast of the intersection of Tangerine Road and First Avenue. Many years ago, the General Plan designated the subject property as Neighborhood Commercial / Office in anticipation of growing demand for neighborhood-scale retail and service businesses as a result of future housing growth. Over the years, only a fraction of the anticipated residential units has been developed, and remaining residential land is scarce, so little additional demand for non-residential uses is expected. This downzoning will allow the subject property to be developed residentially so it can support existing local businesses and also help meet continued strong demand for a variety of housing product types in Oro Valley. For additional information about the history of the property and this proposal, please refer to Section III of this document.

II. INVENTORY & ANALYSIS

The purpose of the Inventory & Analysis section of this document is to catalog the various developmental opportunities and constraints impacting the property in order to provide a meaningful and relevant context for the development proposal detailed elsewhere in this document. Only through careful consideration of these existing conditions can a design be truly appropriate for the area and compatible with its surroundings.

A. EXISTING LAND USES

1. Site Location

The subject property consists of one parcel located within Township 12 South, Range 14 East, Section 6, Town of Oro Valley, Pima County, Arizona. The subject property totals approximately 13.44± acres and is located southeast of the intersection of Tangerine Road and First Avenue.

Pima County tax assessor designates the subject property as parcel 220-06-0640.

Per Pima County GIS, the administrative address for this project is 6088 W. Arizona Pavilions Dr. Ste. 2, Tucson, AZ 85743. Please refer to Exhibit II-A-1: Site Location Map.

2. Existing Zoning and Land Uses

The subject property is currently undeveloped and vacant. Please refer to Exhibit II-A-2: Existing Land Uses.

The subject property is currently zoned C-1 (Commercial). Please refer to Exhibit II-A-3: Existing Zoning.

The subject property is located within an area that was rezoned in 2015 along with the Villages at Silverhawke residential areas. The property is located just south of the Rancho Vistoso PAD and west of the Catalina Shadows Estates Subdivision.

3. Existing Zoning and Land Uses within One-Quarter Mile

a. Existing Zoning & Land Uses

The subject property is surrounded by the following existing zonings and existing land uses. Please refer to Exhibit II-A-2: Existing Land Uses, and Exhibit II-A-3: Existing Zoning.

N: Existing zoning: Rancho Vistoso PAD, Open Space

Existing land use: Undeveloped Land

NE: Existing zoning: Rancho Vistoso PAD, Open Space

Existing land use: Undeveloped Land

E: Existing zoning: R1-7 Residence Zone

Existing land use: Villages at Silverhawke Phase 3

SE: Existing zoning: R1-7 Residence Zone

Existing land use: Villages at Silverhawke Phase 3

S: Existing zoning: R1-7 Residence Zone

Existing land use: Villages at Silverhawke Phase 3

SW: Existing zoning: R1-7 Residence Zone

Existing land use: Villages at Silverhawke Phase 3

W: Existing zoning: C-1 Commercial Zone

Existing land use: Undeveloped Land

NW: Existing zoning: Rancho Vistoso PAD

Existing land use: Undeveloped Land

b. Number of Stories of Existing Structures

There are no existing buildings on the subject property.

c. Pending Rezonings

There are no pending rezonings within one-quarter mile of the subject property.

d. Conditionally Approved Zonings

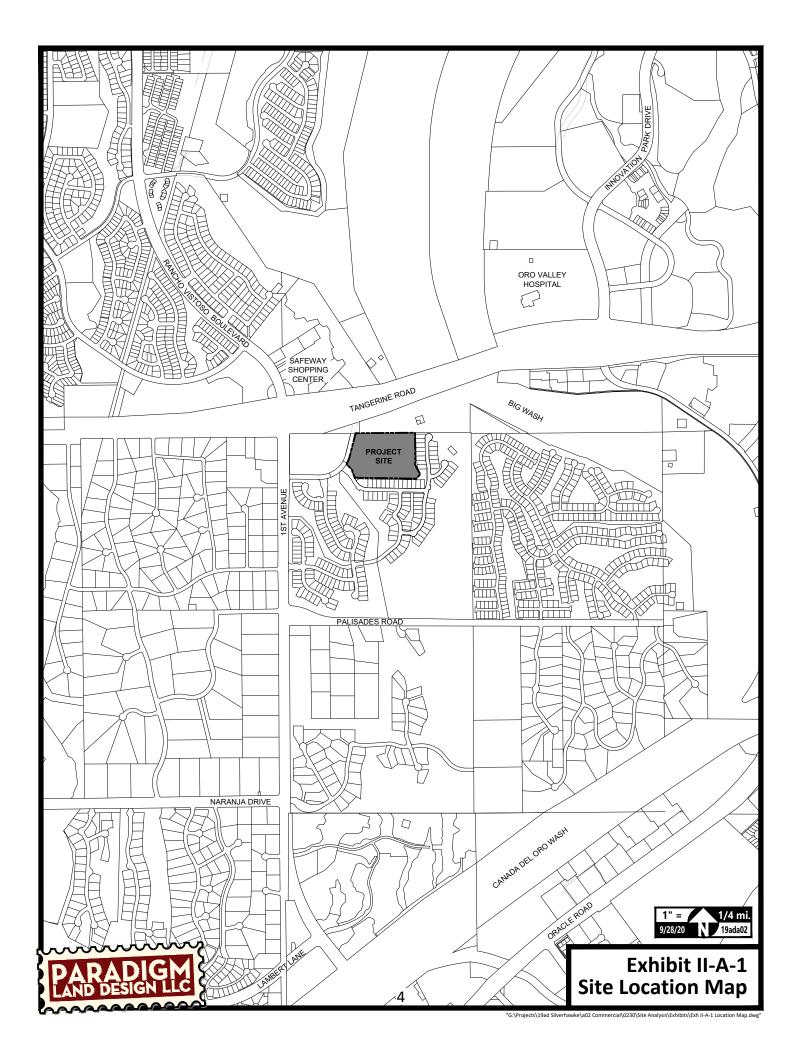
There are no conditionally approved zonings within one-quarter mile of the subject property.

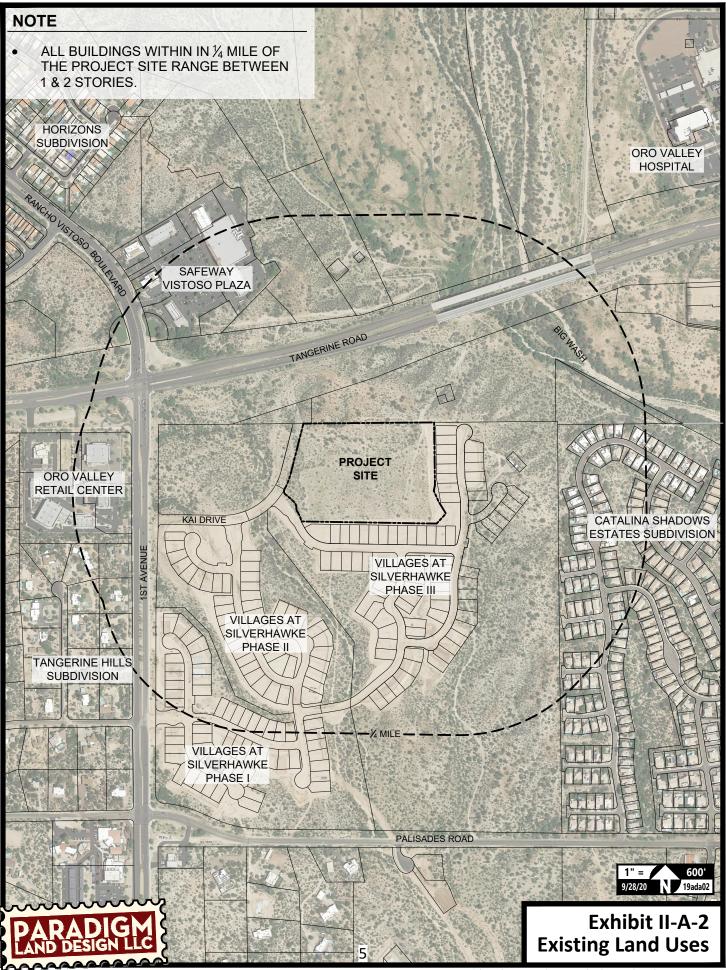
e. Approved Subdivisions & Development Plans

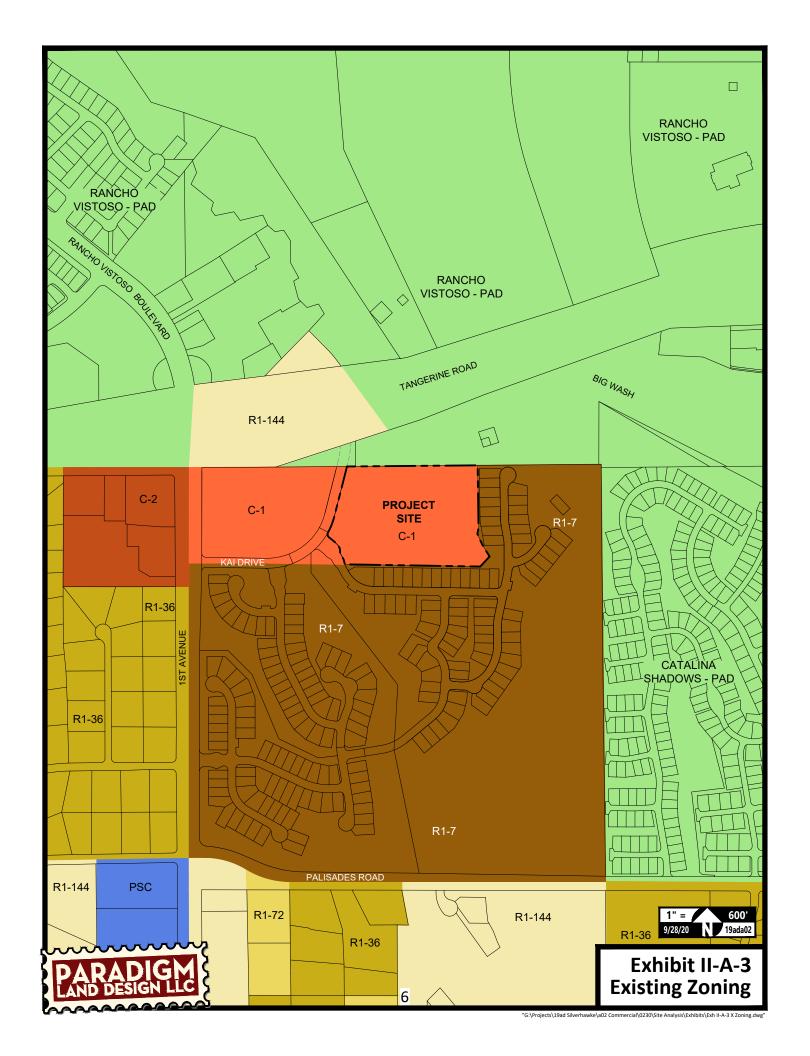
The Villages Phases 1 to 3 and the Catalina Shadows subdivisions are within one-quarter mile.

f. Architectural Styles used in Adjacent Properties

There are no existing structures within 100 feet of the project site. Architectural styles in the project vicinity are generally classified as southwestern contemporary featuring earth tone flat or tile roof, stucco, and some stone accents.



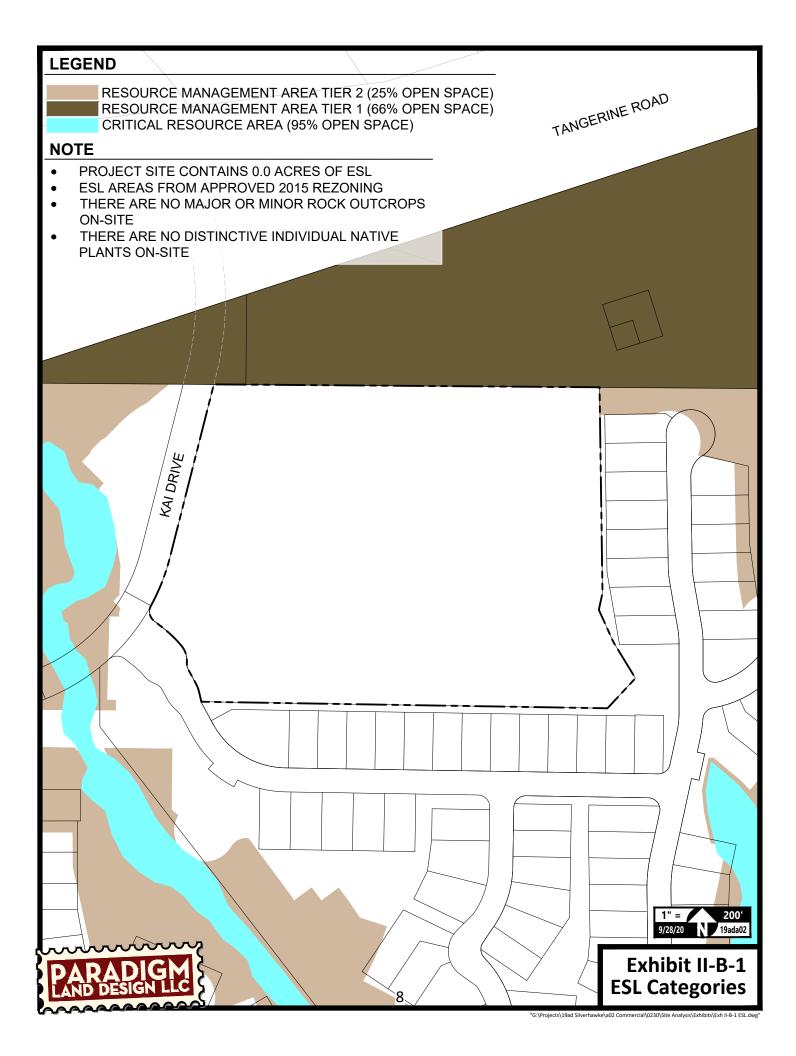




B. ENVIRONMENTALLY SENSITIVE LANDS

1. Existing ESL Conservation Categories

Per the 2015 rezoning, there is no required ESOS onsite. Please refer to Exhibit 11-B-1: ESL Categories.



C. TOPOGRAPHY

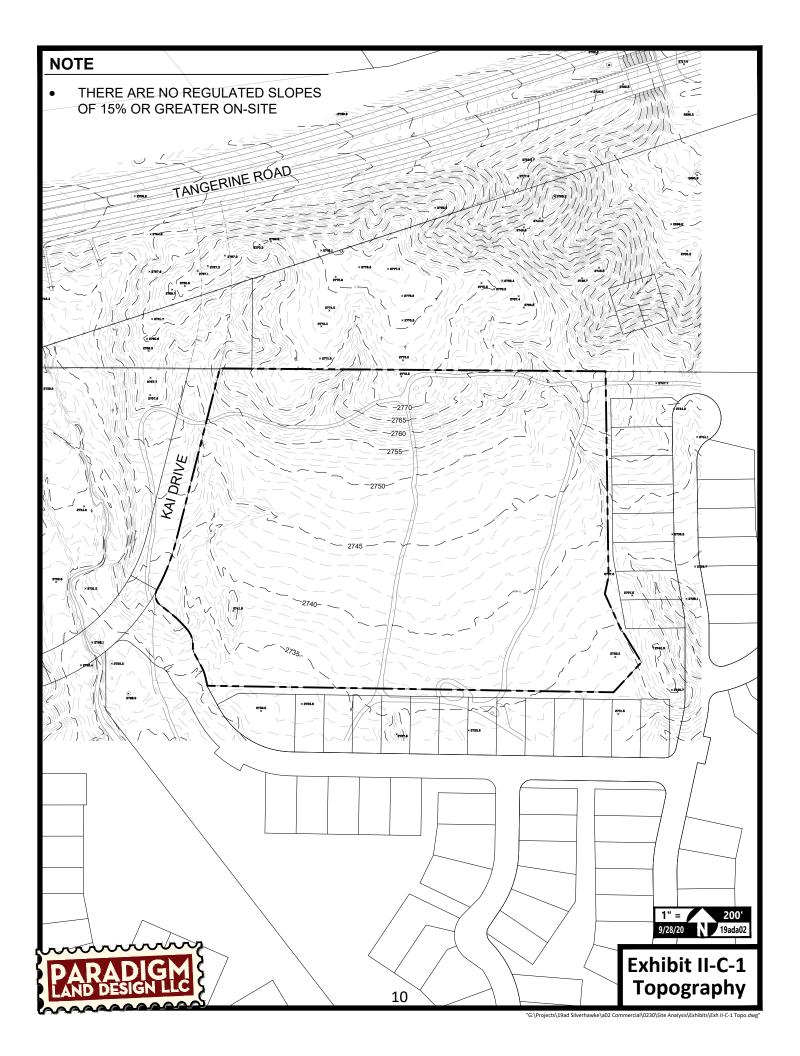
1. Existing Topographic Character

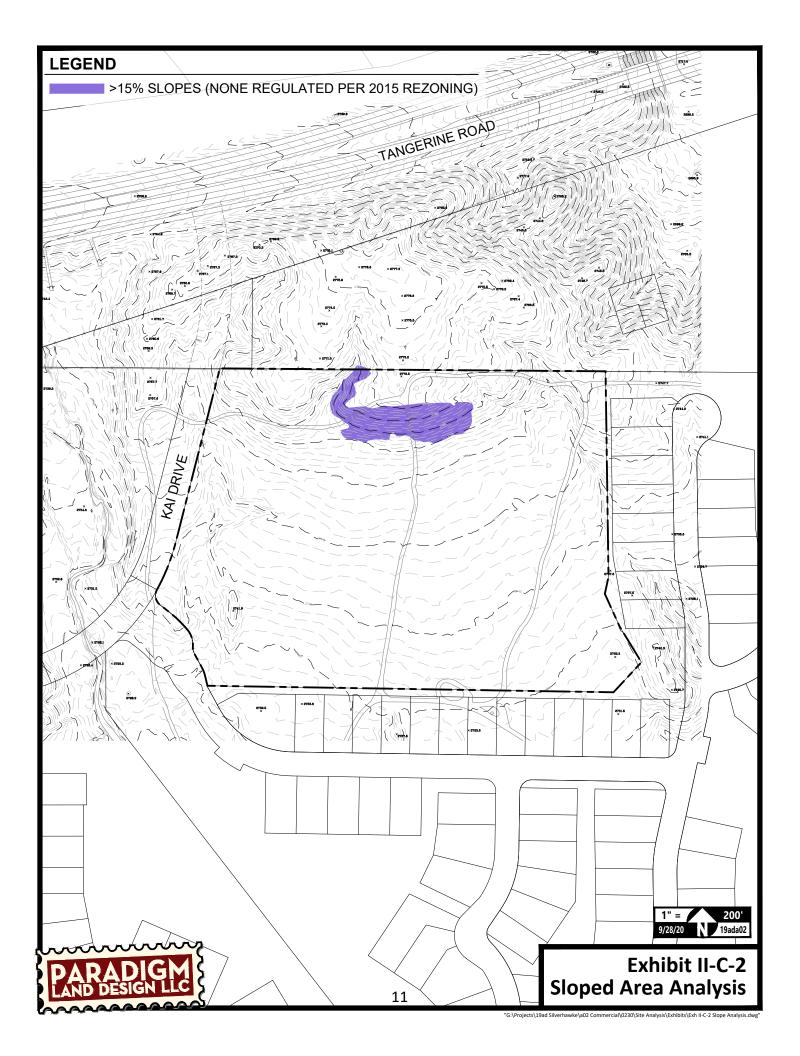
The topography of the subject property is characterized by a gentle southward slope. The subject property generally slopes downward from the north to the south towards the Cañada del Oro Wash, located slightly more than one mile south of the subject property.

Slopes less than 15% characterize the vast majority of the subject property with elevations ranging from approximately 2,775 feet at the highest point on the north side of the subject property to 2,735 feet at the lowest point on the southeast corner of the subject property. The site does not contain any washes. The site contains a single area of slopes exceeding 15%, which is located along its northern edge. The site does not contain any restricted peaks/ridges or rock outcrops. Per the 2015 rezoning approval there are no protected slopes onsite. Please refer to Exhibit II-C-1: Topography and Exhibit II-C-2: Sloped Area analysis.

2. ESLO Slope Analysis Acreage Table.

Slope Category	Area (SF)	% of Site		
0-15%	564,196	96.39%		
15-18%	9,011	1.54%		
18-20%	7,307	1.25%		
20-25%	3,743	0.64%		
25-33%	927	0.16%		
33%+	121	0.02%		
	585,305	100.00%		





D. CULTURAL / ARCHAEOLOGICAL / HISTORIC RESOURCES

1. Cultural Resource Surveys

According to a search of the site files and records retained at Arizona State Museum, 48 cultural resource survey projects were conducted within a one-mile radius of the project area between 1979 and 2014. The entire project area was surveyed three times: during the Amphitheater School Survey in 2002, the Palisades North Property archaeological research survey in 2014, and the Villages at Silverhawke Class III Cultural Resources Survey in 2016. Please refer to Exhibit II-D-1: Archeological Survey.

2. Archaeological Sites

The archaeological survey found no cultural resource sites on the subject property.

3. Degree of Potential Resource Recovery

According to the ASM, there is a high degree of potential recovery of prehistoric and historic resources within the subject property. Any resources identified or discovered on the property during construction will be treated according to State and local antiquities laws.

Exhibit II-D-1: Archaeological Survey

VILLAGES AT SILVERHAWKE CLASS III CULTURAL RESOURCES SURVEY OF 150 ACRES IN ORO VALLEY, PIMA COUNTY, ARIZONA

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MCA Cultural Resources Report No. 2016.047 Arizona Antiquities Act Blanket Permit No. 2016-033bl

November 2, 2016



E. HYDROLOGY

1. Offsite Watersheds

The offsite watershed is very small (<2 acres) and contributes minimal stormwater flow to the subject property. Please refer to Exhibit II-E-1: Offsite Hydrology.

2. Balanced / Critical Basins

The site is within the Critical Basin.

3. Offsite Features Affecting Site

The two small upstream watersheds are entirely undeveloped. The downstream property is the Villages at Silverhawke Phase 3 subdivision, which has been designed to collect existing stormwater runoff from the subject property. Please refer to Exhibit II-E-1: Offsite Hydrology.

4. Size of Upstream Watershed

Two small upstream watersheds impact the property. They total 1.92 acres. Please refer to Exhibit II-E-1: Offsite Hydrology.

5. Onsite Hydrology Characteristics

a. 100-Year Floodplains with Discharges \geq 50 CFS

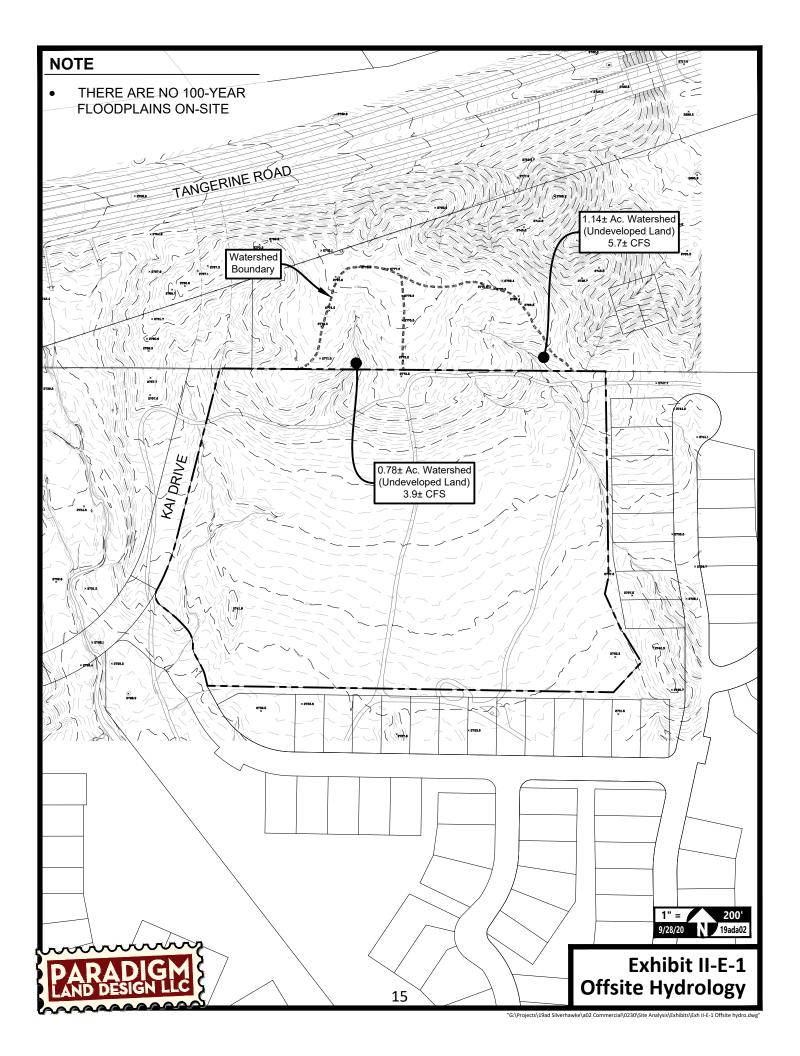
There are no 100-year floodplains with discharges \geq 50 CFS on the subject property.

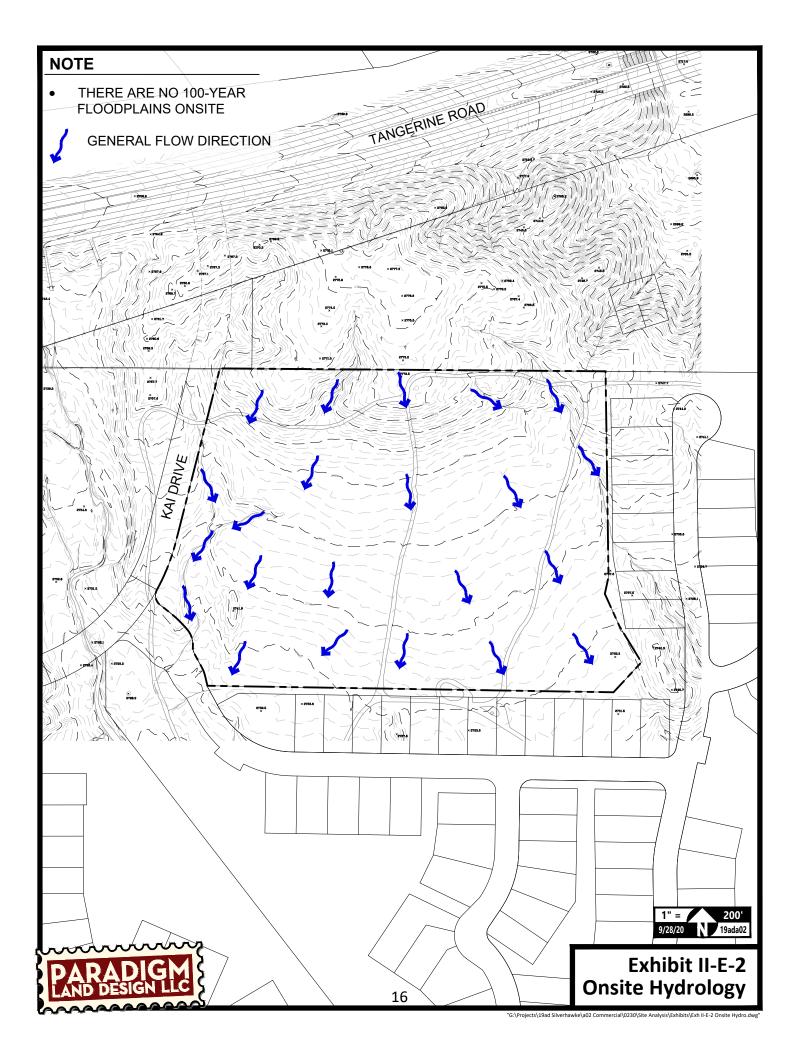
b. Areas of Sheet Flooding

There are no areas of sheet flooding onsite.

c. Federally Mapped Floodways & Floodplains

The site does not lie within a FEMA designated 100-year floodplain or floodway.





F. VEGETATION

1. Vegetation Communities and Associations on the Site

The vegetation community on the property is typical of the Sonoran Desert Scrub Region, Arizona Upland Subdivision, Paloverde-Cacti-Mixed Scrub Series (David E. Brown: Biotic Communities). Typical species found in this biome include Bursage (*Ambrosia deltoidea*) and Foothills Palo Verde (*Cercidium microphyllum*). Please refer to Exhibit II-F-1: Vegetation.

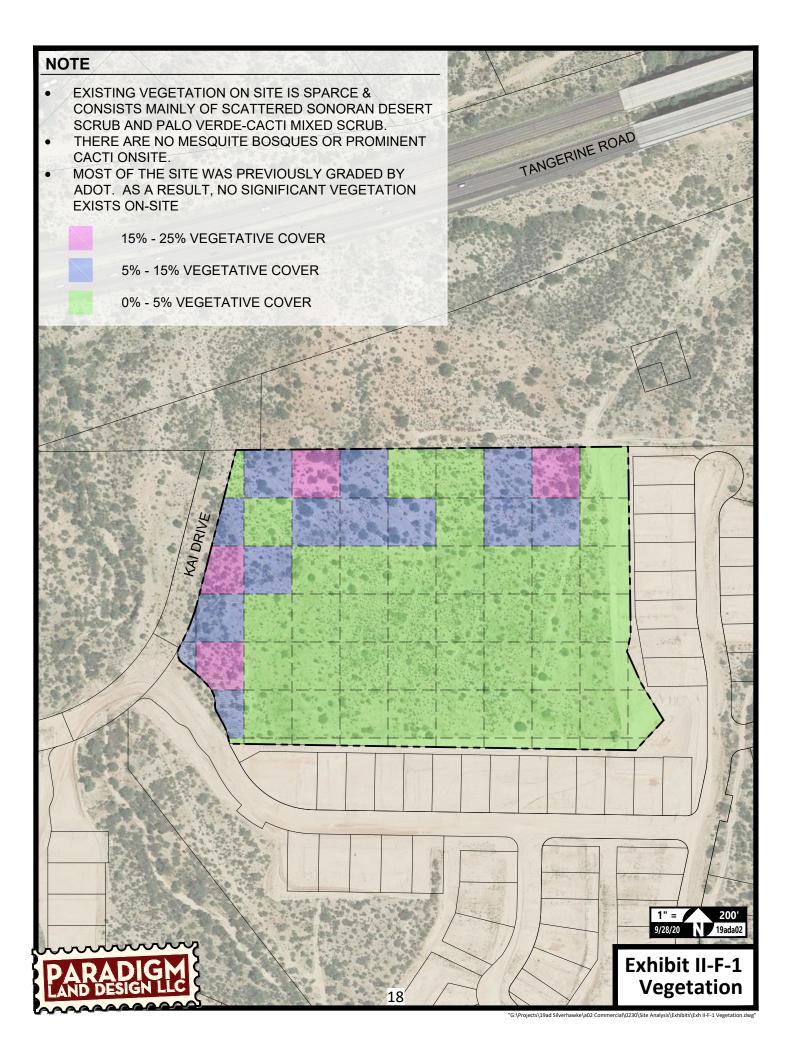
2. Significant Cacti and Groups of Trees and Federally-Listed Threatened or Endangered Species

The following significant plant species were found on the project site: Fishhook Barrel Cactus (Ferocactus wislizenii), Ocotillo (Fouquieria splendens), Engelmann Prickly Pear (O.p. var. Discata), Foothills Palo Verde (Cercidium microphyllum), Velvet Mesquite (Prosopis velutina), Creosote Bush (Larrea tridentata), Cat-claw Acacia (Acacia greggii), Desert Hackberry (Celtis pallida), Strawberry Hedgehog (Echinocereus engelmannii), Teddy Bear Cholla (Opuntia bigelovii), Jumping Cholla (Opunia fulgida), Brittlebush (Encelia ferinose), Desert Broom (Baccharis sarathoides), Fairy Duster (Calliandra eriophylla), Triangle Leaf Bursage (Ambrosia deltoidea), and Saguaro (Carnegiea gigantea).

According to the Arizona Game and Fish Department, the following species are known to occur in the vicinity of the project site – Pima Indian Mallow (*Abutilon parishii*), designated as Sensitive and Salvage Restricted and Trelease Agave (*Agave schottii treleasei*), designated as Sensitive and Highly Safeguarded. Please refer to Exhibit II-F-1: Vegetation.

3. Vegetation Densities by Approximate Percentage of Plant Cover

As determined by field reconnaissance and analysis of aerial photographs, the subject property is characterized by low vegetation density, due to ADOT's clearing and mass-grading of nearly the entire property. Please refer to Exhibit II-F-1: Vegetation.



G. WILDLIFE

1. Arizona Game & Fish Dept. Online Review Tool Results

Please refer to Appendix C – AZ Game & Fish Dept. Online Review Tool Results.

2. Significant Wildlife Species

The following special status wildlife species have been documented within three miles of the project site: Pima Indian Mallow (*Abutilon parishii*), Giant Spotted Whiptail (*Aspidoscelis stictogramma*), Red-backed Whiptail (*Aspidoscelis xanthonota*), Yellow-billed Cuckoo (*Coccyzus americanus*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), American Peregrine Falcon (*Falco peregrinus anatum*), Cactus Ferruginous Pygmy-owl (*Glaucidium brasilianum cactorum*), Sonoran Desert Tortoise (*Gopherus morafkai*), Reticulate Gila Monster (*Heloderma suspectum suspectum*), Gila Monster (*Heloderma suspectum*), Antelope Jackrabbit (*Lepus alleni*), Lowland Leopard Frog (*Lithobates yavapaiensis*), Lemmon Cloak Fern (*Notholaena lemmonii*), Desert Box Turtle (*Terrapene ornata luteola*).

H. VIEWSHEDS

1. Views onto and across the Site from the Adjacent Properties

The Tortolita Mountains to the northwest are slightly visible from the subject property. The Santa Catalina Mountains, including Pusch Ridge, to the east and southeast are highly visible from the subject property. Views of the mountains will be minimally impacted by the proposed development. There are no views or vistas from areas beyond adjacent properties that may be noticeably affected by the development of the site. The views from existing residential subdivisions surrounding the subject property will not be adversely affected by the proposed development. Please refer to Exhibit II-H-1: Viewsheds and Exhibit II-H-2: Viewshed Photographs for more information.

2. Areas of High Visibility from Adjacent Offsite Locations

Portions of the property are visible from adjacent properties in Silverhawke Phase 3. The subject property is visible from these properties in its entirety. However, the subject property is barely visible from both Tangerine Road and First Avenue. It is not at all visible from the nearest residences in the Catalina Shadows subdivision. The proposed development will likewise be visible to other residences in Silverhawke Phase 3, slightly visible from both Tangerine Road and First Avenue, and not visible from the nearest Catalina Shadows residences. The areas of high, medium, and low visibility were determined by field observation, topography, and aerial photograph reconnaissance. Please refer to Exhibit II-H-1: Viewsheds and Exhibit II-H-2: Viewshed Photographs for more information.

3. Provide Photographs that Depict Proposed Structures Superimposed on Existing Landscape

The proposed development will consist of residential and quasi-residential components integrated in a well-designed manner to fit with the existing nature of the site. However, at this time, a developer for this property has not been selected and the specific nature of structures has not yet been determined. Please refer to Exhibit II-H-1: Viewsheds and Exhibit II-H-2: Viewshed Photographs for more information.

The subject property doesn't have any actual Tangerine Rd. frontage, but the property is not visible from the stretch of Tangerine Rd. that would be the frontage if the property's east and west property lines were extended north to intersect with the Tangerine Rd. right-of-way. Exhibit II-H-2 includes a couple photographs of 25' building height poles onsite, taken from offsite locations.

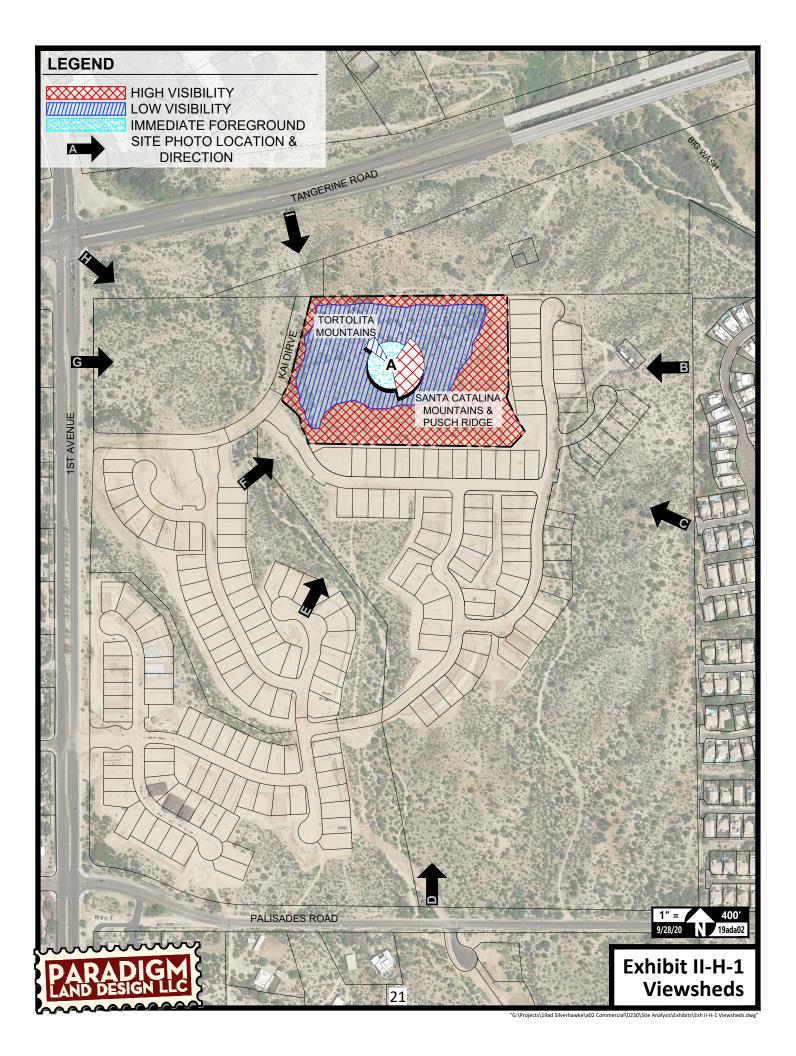


Exhibit II-H-2: Viewshed Photographs

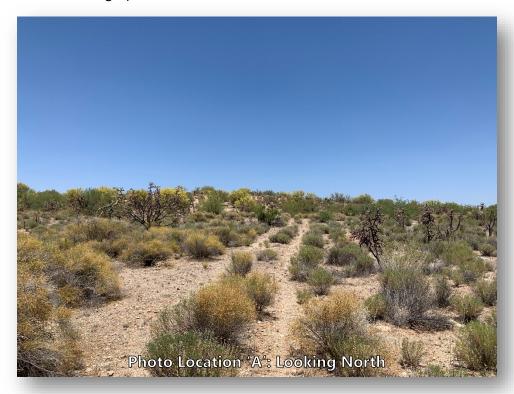




Exhibit II-H-2: Viewshed Photographs (Cont'd)

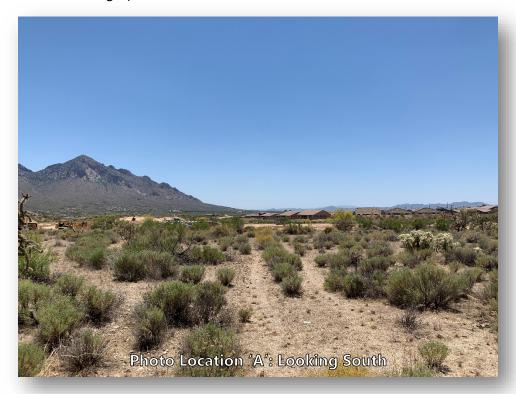




Exhibit II-H-2: Viewshed Photographs (Cont'd)





Exhibit II-H-2: Viewshed Photographs (Cont'd)





Exhibit II-H-2: Viewshed Photographs (Cont'd)





Exhibit II-H-2: Viewshed Photographs (Cont'd)





I. TRAFFIC

1. All Existing and Proposed Off-site Streets between the Development and the Nearest Arterial Streets

Primary access to the subject property will be from First Avenue. Other major streets within one mile of the subject property are Rancho Vistoso Boulevard, Tangerine Road, Naranja Drive, Lambert Lane, and Oracle Road. Roads adjacent to and within one-mile distance from the subject property are generally in excellent condition. Please refer to Exhibit II-I-1: Major Roads.

2. All Arterial Streets within One Mile of the Project Site

Road	Section	Existing ROW	Ultimate ROW	Travel Lanes	Capacity	Speed Limit	ADT (PAG)	Surface Conditions	Scheduled Improvements
Finet Ave	Tangerine to Lambert	125'	150'	4	35,000	45	16,000	Paved w/ multi-use path	None
First Ave.	Lambert to Oracle	125'	150'	4	35,000	45	24,500	Paved w/ bike lane	None
Tangarina Dd	La Canada to First	300'	300'	4	35,000	45	17,600	Paved w/ multi-use path	None
Tangerine Rd.	First to Oracle	300'	300'	4	35,000	45	10,500	Paved w/ multi-use path	None
Delice des Dd	First to Terminus	90'	90'	2	8,500	35-45	Unknown	Paved	None
Palisades Rd.									
Naranja Dr.	La Canada to First	150'	150'	2	8,500	45	4,000	Paved w/ bike lanes	None
Naralija Dr.									
Danaha Vistasa	Tangerine to Moore	150'	150'	4	35,000	35	17,000	Paved w/ sidewalk & bike lane	None
Rancho Vistoso									
Laurelaure Luc	First to Pusch View	90'	90'	2	8,500	40	12,000	Davis dividendi i vas rastla	C
Lambert Ln.	Pusch View to La Canada	150'	150'	4		8,500	40	12,000	Paved w/ multi-use path
Overele Del	First to Tangerine	200'	200'	6	60,000	50	25,000	Paved w/ bike lanes	None
Oracle Rd.									

3. Existing and Proposed Intersections on Arterials within One Mile of the Site, Most Likely to be Used by Traffic from This Site

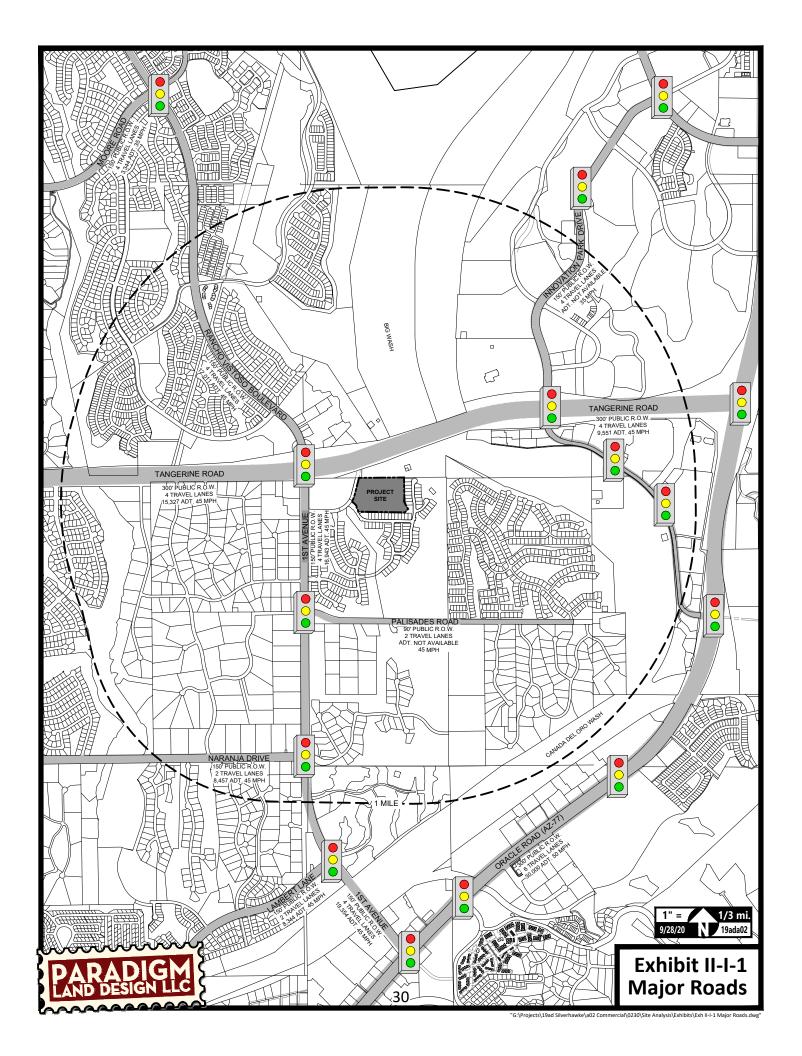
Arterial intersections within one mile of the site that will likely carry traffic generated by this development include Tangerine road and First Avenue, Tangerine Road and Oracle Road, and First Avenue and Naranja Drive. Please refer to Exhibit II-I-1: Major Roads.

4. Existing Bicycle and Pedestrian Ways Adjacent to the Site and their Connections with Streets, Parks, and Schools

According to the Oro Valley Bikeways Map Existing Routes and Surfaces 2006, there are paved shoulders along Tangerine Road and First Avenue, which are classified as follows:

- East of First Avenue, along Tangerine Road (paved shoulder and shared use path).
- West of First Avenue, along Tangerine Road (shared use path and signed bike route w/ on-street bike lane).
- First Avenue (shared use path and signed bike route with on-street bike lane).
- Naranja Drive (paved shoulder).
- Lambert Lane (shared use path and signed bike route with on-street bike lane).
- Oracle Road (paved shoulder).

There is a shared use path and signed bike route with on-street bike lane along the shoulder of Tangerine Road, which provides connection to a shared use path and a paved shoulder bike route along First Avenue. According to the Oro Valley Bikeways Map Existing Routes and Surfaces, the First Avenue paved shoulder also provides connectivity to the Naranja Drive paved shoulder bike route and the Lambert Lane shared use path. Ultimately, the First Avenue paved shoulder connects to the paved shoulder bike route along Oracle Road.



J. Recreation & Trails

1. Parks

The Naranja Townsite Park, consisting of approximately 213 acres, is approximately one mile west of the subject property, located north of Naranja Drive and approximately one mile west of First Avenue. This park features active and passive recreational areas, walking trails, and an archery range.

The Catalina State Park, consisting of approximately 5,500 acres, is located approximately one mile east of the subject property, just each of Oracle Road. This park features active and passive recreational areas, a visitor center, an equestrian area, and several hiking trails.

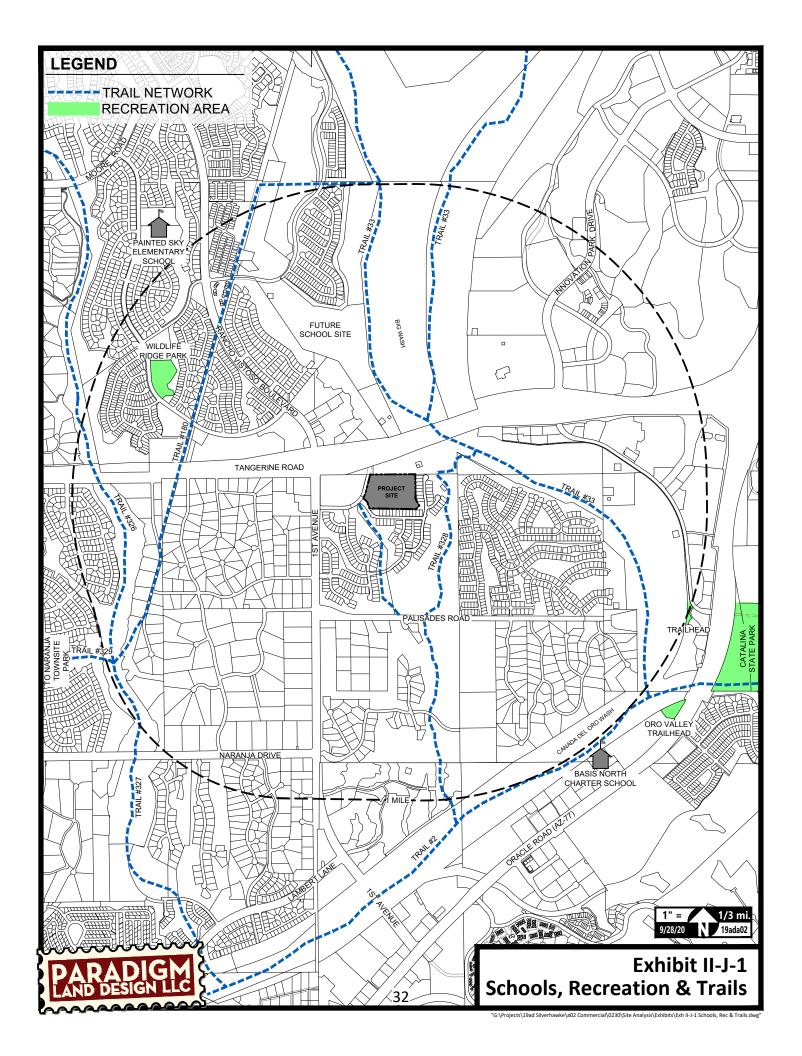
The Cañada del Oro Riverfront Park, consisting of approximately 30 acres, is located just over one mile south of the subject property, south of Lambert Lane. This park features active and passive recreational areas, ball fields, and walking paths. Please refer to Exhibit II-J-1: Schools, Recreation & Trails.

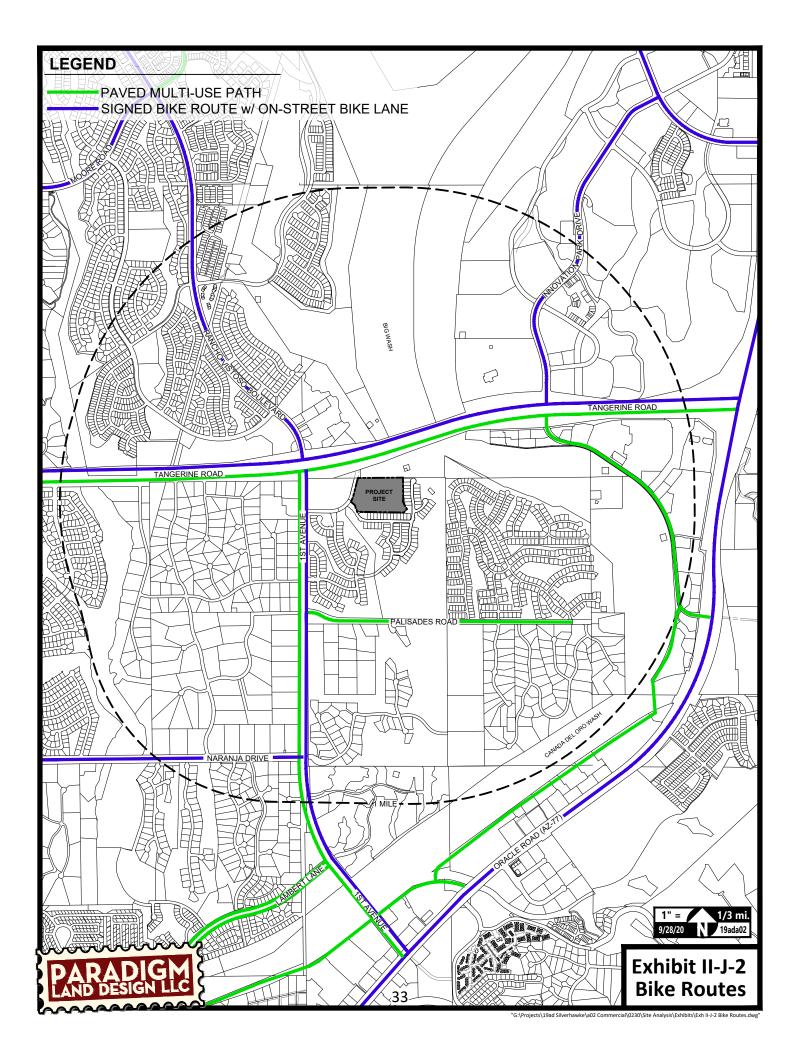
2. Nearby Bicycle / Pedestrian Ways

Both northbound and southbound First Avenue and eastbound and westbound Tangerine Road include paved bicycle lanes. First Avenue include a concrete sidewalk on the street's east side, and Tangerine Road features a paved pedestrian path on the south side of the street.

3. Trails / Trail Access Adjacent to the Site

Trail #328 passes by the subject property from north to south, ultimately connecting to Trail #33, located approximately three-quarter mile east of the subject property along the eastern side of the Big Wash. Trail #328 also connects with Trail #2, located approximately one mile south of the subject property along the Cañada del Oro Wash. Please refer to Exhibit II-J-1: Schools, Recreation & Trails.





K. Schools

Students within this development will be served by schools in the Amphitheater Unified School District or by one of the charter schools within the area. Painted Sky Elementary is approximately one mile to the north of the project site, and Basis North is slightly more than one mile to the southeast of the project site. Students living within the subject property will be served by the following Amphitheater public schools: Painted Sky Elementary, Coronado K-8 School, and Ironwood Ridge High School. Please refer to Exhibit II-J-1: Schools, Recreation & Trails.

L. UTILITIES

1. Water

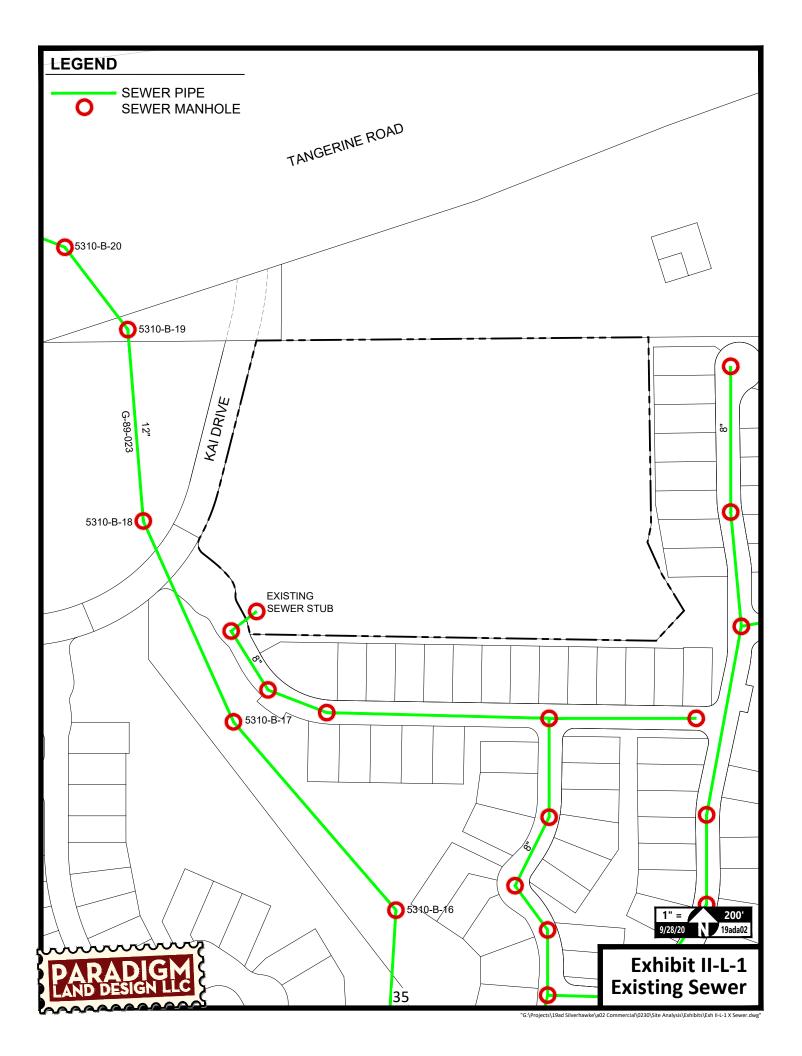
Oro Valley Water Utility services the parcels adjacent to the subject property. The subject property will connect to the existing water lines.

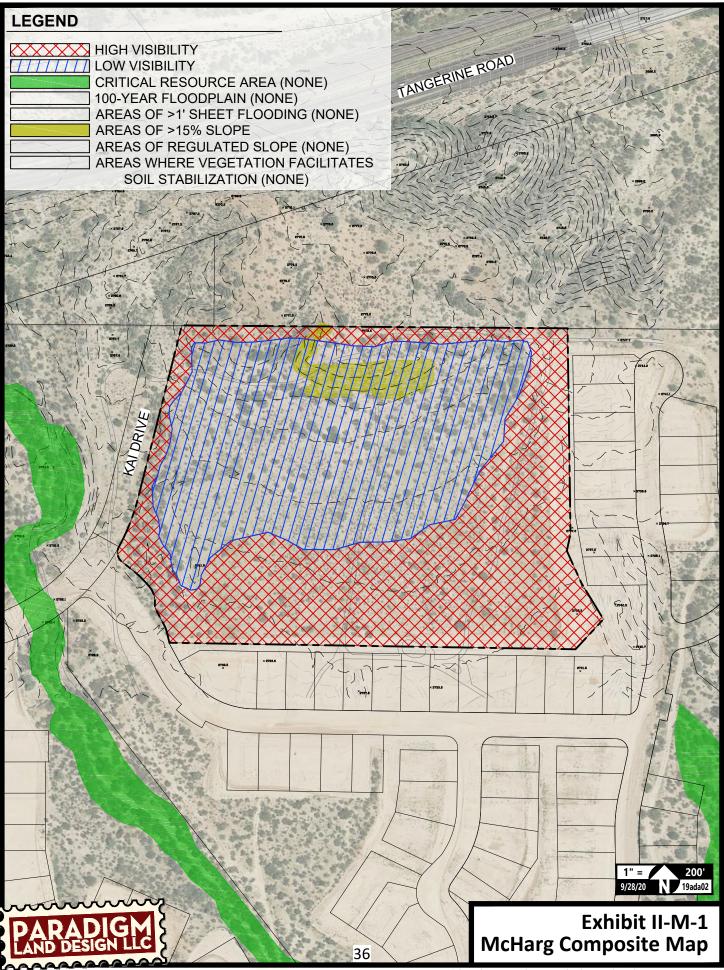
2. Sewer

A 12" public sewer line runs along the west side of the subject property. Please refer to Exhibit II-L-1: Existing Sewer.

3. Dry Utilities

The subject property will connect to existing dry utility infrastructure. TEP provides electricity to the surrounding property, while Southwest Gas provides gas and Comcast provides telecommunications infrastructure.





III. LAND USE PROPOSAL

A. PROJECT OVERVIEW

The subject property is part of a larger land holding that was acquired by the Kai family over half a century ago. Much of that original land holding has been developed over the years for various residential purposes. This property is platted as Silverhawke Block 5 and is currently zoned for commercial development along with Block 4 to the west. Block 4 is right on the corner of Tangerine and First, and we believe someday it will be viable for commercial development. Unfortunately, several factors make this property, Block 5, unsuitable for commercial use: First, it has poor visibility from nearby streets. This alone is a critical flaw for retail. Second, it is physically located well off the corner of Tangerine and First. Third, there is an abundance of more suitable undeveloped commercial parcels nearby. Fourth, the market for retail floorspace is weak in this part of the Tucson metro area, partially due to that abundance of commercially zoned land and partially due to a lack of the residential density needed to support extensive retail. And lastly, a relatively low number of additional residential units are likely ever to be built within the parcel's retail service area, so the retail market is not likely ever to improve much at this location. All these factors lead us to believe that the most viable, and most appropriate, use for this property would be for residential or senior care uses.

Over 15 years ago a list of General Plan Special Area Policies were applied to the overall "Kai-Capri" property, which encompassed roughly 290 acres east of First Avenue from Tangerine Road to Naranja Drive. The Policies provided direction for development of the entire property including the identification of approximately 24 acres at the corner of Tangerine at First as being appropriate for commercial development, so that portion of the Kai-Capri property was designated in the General Plan as Neighborhood Commercial / Office ("NCO"). Our proposed downzoning from C-1 Commercial to R-6 Residential will not require an amendment to the General Plan land use map because R-6 is a permitted zoning classification within the NCO designation. However, text amendments to the Special Area Policies are needed to allow this property to be developed for residential purposes.

Our proposed downzoning includes several Tentative Development Plans, depicting different development scenarios that we believe to be viable and appropriate uses for this property, including:

- A rental casita product similar to a number of others that have been very successful around Tucson and Phoenix. The residents of this sort of development are typically renters by choice, meaning that they could afford to purchase a home but prefer not to at this time. The project will be welllandscaped, featuring a central recreational amenity such as a pool and spa area, and is most often entirely single-story.
- A gated, two-story apartment community in an amenitized and well-landscaped setting. As with the
 rental casita scenario the project would include a central recreation area with a clubhouse and rental
 office. And also, as with the casita scenario, residents in apartments such as this usually chose to live
 in an apartment even though they have the means to purchase a home.
- A senior care facility to meet the significant unmet need in the senior care industry. An increasing number of people are deciding that modern senior care facilities are an attractive living option that

provides resort-like amenities and also the support that many aging people, or their spouses, require. The development will include a main two-story building where assisted living, memory care, and/or independent living quarters are offered. Around the perimeter one-story independent living cottages would provide a place where those requiring less care could live with a bit more room while still benefiting from the amenities and services available at the main building. Senior care facilities are very low traffic generators, and they're just as quiet if not quieter than other residential areas in Oro Valley.

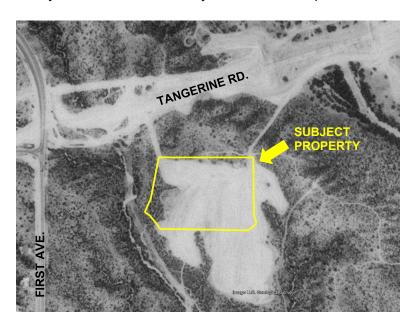
• A single-family neighborhood featuring two-story townhome-style housing or one- and two-story detached homes similar to the nearby Villages at Silverhawke or Catalina Shadows subdivisions.

Regardless of which development scenario comes to fruition, several facts will remain the same:

- ✓ Building heights will not exceed the 25′ / two-story limitation that is already in place under the existing C-1 zoning.
- ✓ Traffic generation will be equivalent or most likely lower than what could be expected if developed under the existing C-1 zoning.
- ✓ Any of the proposed development types will benefit the struggling retailers that have already established themselves in Oro Valley.
- ✓ The nearest residents in the Catalina Shadows subdivision are over 800 feet away and will be separated from this development not only by distance but also by homes to be built within the Villages at Silverhawke Phase 3. The nearest neighbors in the Villages at Silverhawke Phase 2 subdivision, which was part of the rezoning that created the subject property's C-1 zoning, are at least 350 feet away and separated from this development by a wash and the Villages Phase 3. The nearest neighbors in the Tangerine Hills subdivision are nearly 1,100 feet away and are separated from this development by a wash, the Villages Phases 2 & 3 subdivisions, and First Avenue. The nearest homes in Rancho Vistoso are over 2,000 feet away.



- ✓ This development will not negatively impact any nearby homeowners in the area.
- ✓ The proposed amendment and its associated downzoning request will not impact the natural beauty and environmental resources more than under existing zoning. In fact, most of the parcel was previously graded by ADOT, as evidenced by this 1992 aerial photo:



B. Your Voice, Our Future Conformance

Oro Valley's Your Voice, Our Future General Plan includes many goals and policies that support the development of appropriate, transitional, and viable land uses such as those proposed by this amendment and associated downzoning. Below are a sample of goals and policies that this proposal supports:

- o 3.4.A. & D. − A robust local economy and job market that provide opportunities for quality employment, build on Oro Valley's assets, and encourage high-quality growth. A community with a wide range of services, amenities, shopping and dining opportunities and housing types that meet the needs of current and future residents.
 - ✓ A robust economy within Oro Valley will be fueled by successful businesses in Oro Valley. Businesses can provide a wide range of services, shopping, and dining opportunities only when they thrive. They thrive when they have enough customers living and working within their service area. Oro Valley's generally low residential densities do not provide enough customers for most Oro Valley businesses within their services areas, so additional residential units are needed to help fulfill this General Plan goal. Ideally the development of additional residential units is not unreasonably impactful to nearby residents nor it is on land that is environmentally sensitive. This property fits those two criteria perfectly.
 - Given that existing Oro Valley businesses are already struggling, re-designating undeveloped and less desirable commercial land to provide much needed additional residential units is appropriate from a long-range land use planning standpoint. The intersection of Tangerine

Road and First Avenue is surrounded by 81 acres of commercially zoned parcels spread over all four corners, but only 29% of the acreage is developed, leaving nearly 60 acres of undeveloped, marginally viable commercial land that is not currently benefitting the property owners, nearby businesses, or the Town in general. This proposed amendment will help realign this commercial intersection to better support the General Plan's goal of achieving a robust local economy.

- o 3.6.CC.7. Support the development of diverse housing types within the community.
 - ✓ Oro Valley's residential market is dominated by single-family detached homes, which doesn't align with the broader spectrum of housing options demanded by existing and future residents. Additional denser transitional residential housing units such as apartments, rental casitas, townhomes, and senior care campuses are needed to make living in Oro Valley accessible to everyone.
- 3.6.CC.8.– Foster development of complete neighborhoods with easy access to transportation and employment options, and commercial areas that offer amenities and services for residents' daily needs.
 - ✓ The General Plan describes a complete neighborhood as including parks and other outdoor spaces, recreational facilities, access to quality housing, and safe and varied transportation options. It goes on to describe a complete community as one that serves the needs of residents on a day-to-day basis and is "a good place to open a business". This proposed amendment will fulfil these goals by providing another quality housing option for existing and future residents, an recreation area, convenient pedestrian and bicycle access to the nearby sidewalk and pathway system, convenient access to nearby commercial areas, and additional residents to help local businesses thrive.
- o 5.4.X. Effective transitions between differing land uses and intensities in the community.
 - ✓ Residential-scale development such as that which is proposed provides a graduated transition in density and land use and is generally accepted to be less impactful to nearby homeowners than the commercial developments that could be built on the property under existing zoning. Landscaped bufferyards will be incorporated into the development to further soften the boundary between this and nearby developments.
- 5.5.LU.5. Provide diverse land uses that meet the Town's overall needs and effectively transition in scale and density adjacent to neighborhoods.
 - ✓ Currently Oro Valley has more commercially zoned land than can be supported by its residential and employment density. Conversely, the Town's supply of higher density residential units is deficient relative to demand and relative to the General Plan's goal of providing a full spectrum of housing options. Allowing this property to develop as a higher density residential or senior care neighborhood would help address both of these statistics.

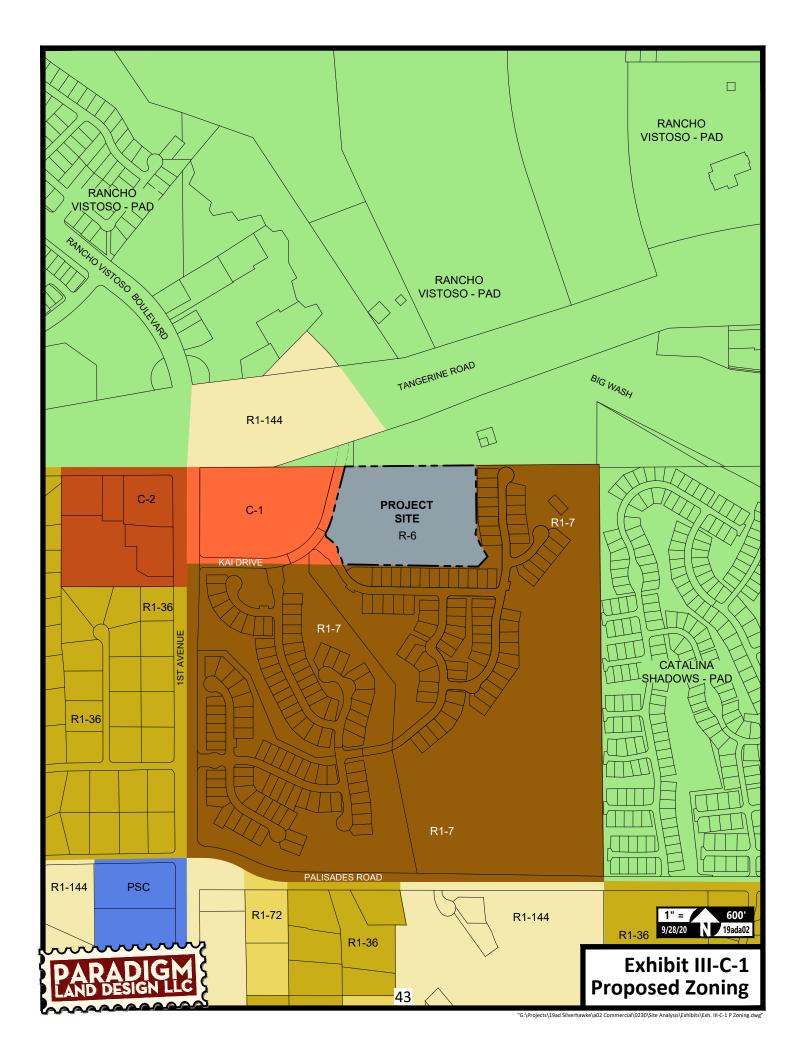
- 5.5.LU.7. Coordinate planning for land use and transportation in order to promote growth areas and transit and commercial corridors.
 - ✓ A General Plan Tier II Growth Area is designated over the entire 81 acres of commercially zoned land centered around the intersection of First Avenue and Tangerine Road. The General Plan defines a Growth Area as a location that is "particularly suitable" for a planned concentration of a range of more intensive land uses. Development within Tier II Growth Areas must limit impacts to nearby homeowners, which this proposal achieves. This proposal also provides for a "sensible pattern of land development" coupled with infrastructure funding that is "coordinated with development activity" (i.e. developed-funded).
- 5.5.LU.9. Promote the design of cohesive developments that enhance and promote the pedestrian experience.
 - ✓ Whether this property is developed as a senior care campus or a residential neighborhood that is not age-restricted, it will include an internal sidewalk/pathway system with connections to external sidewalk and trail alignments.
- 5.7.DG.1. Require new development to pay its share toward the cost of additional public facility and service needs generated by new development while balancing public and private interests in cost allocation.
 - ✓ This project will fund the construction of the final leg of the Kai Drive connection between
 First Avenue and Tangerine Road. That roadway construction effort will also include extension
 of utilities necessary to serve the development. Beyond providing the actual infrastructure
 improvements needed to serve this development, impact fees will be paid to help cover the
 cost of maintaining the Town's broader public infrastructure networks.

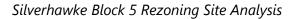
C. LAND USES

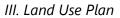
- 1. Please refer to Exhibit III-C-1: Proposed Zoning.
- 2. The proposed development will have no impact on existing onsite land uses because the site is currently undeveloped.

Negative impacts to offsite land uses will be minimal, if any, because the proposed residential uses are more similar to surrounding residential uses than would be a non-residential development under the existing commercial zoning. Views will not be negatively impacted either because the subject property is several hundred feet from the nearest existing neighbors, and the site isn't within anyone's prime viewshed of Pusch Ridge. Additionally, the proposed building heights are identical to the height permitted under the existing commercial zoning, so there will be no additional impact to views.

Positive impacts to offsite land uses will include providing additional customers to struggling local businesses, some of which are within walking distance from this site and its future residents.

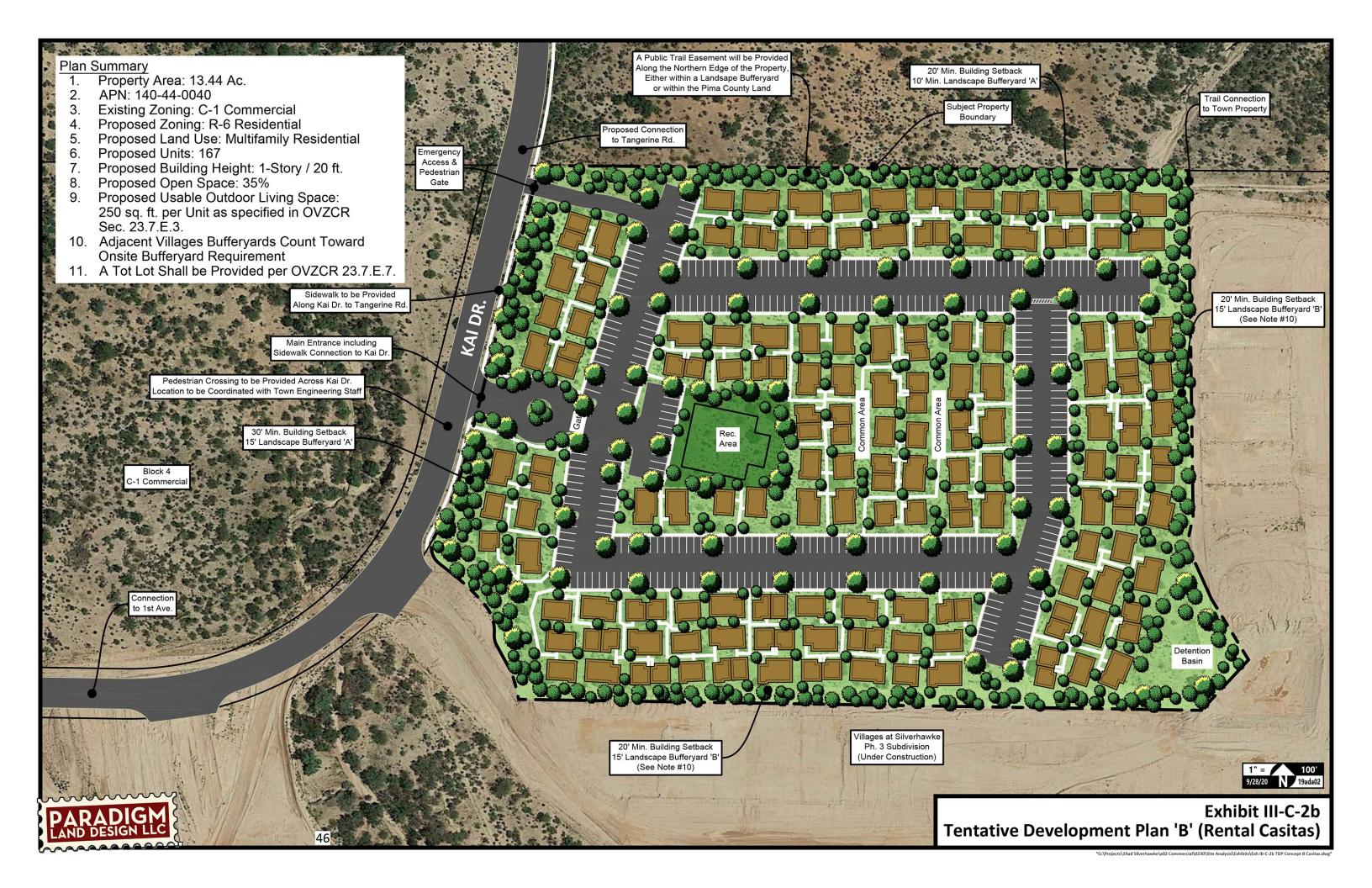


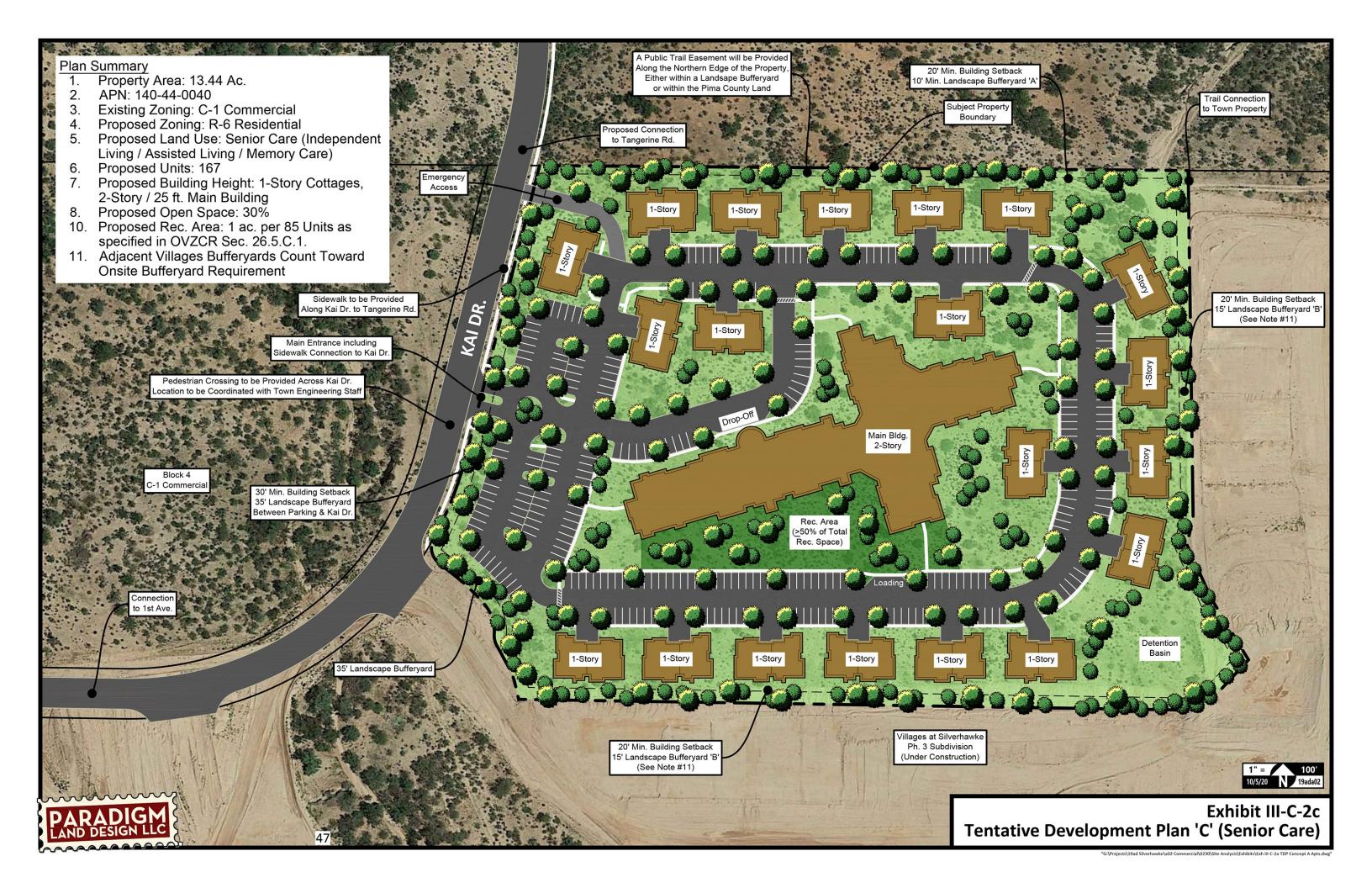


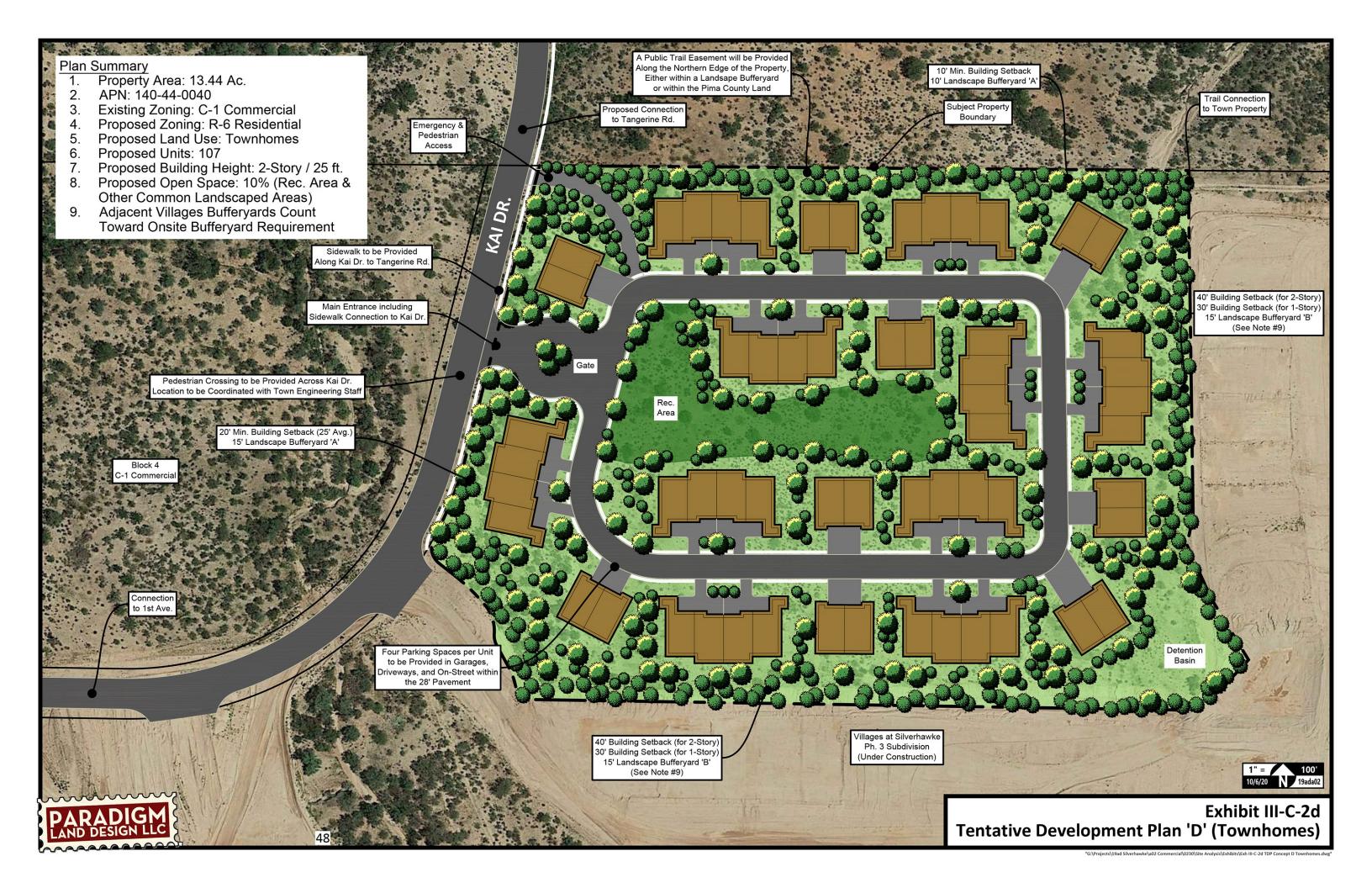


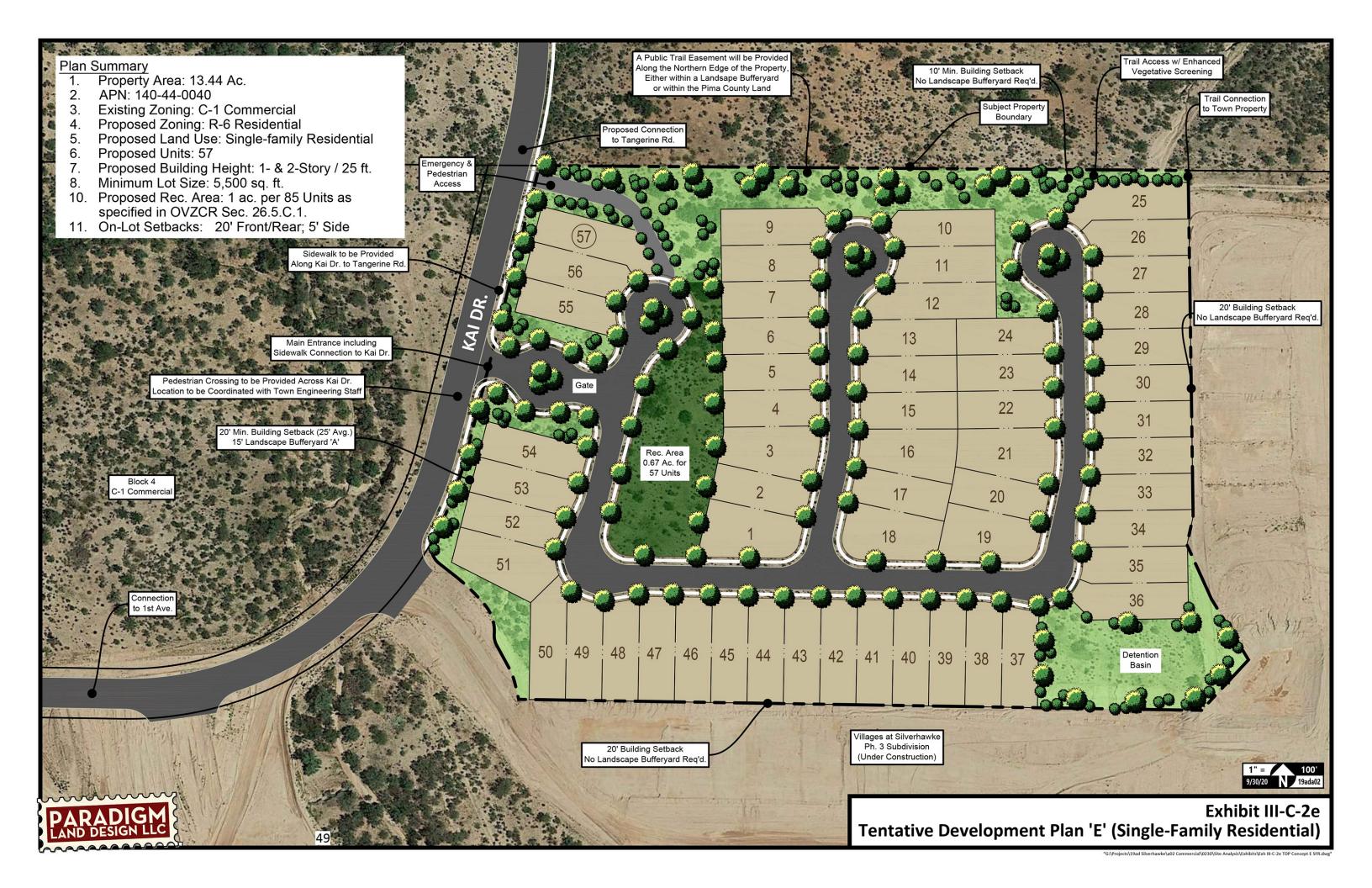
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D. **ENVIRONMENTALLY SENSITIVE LANDS**

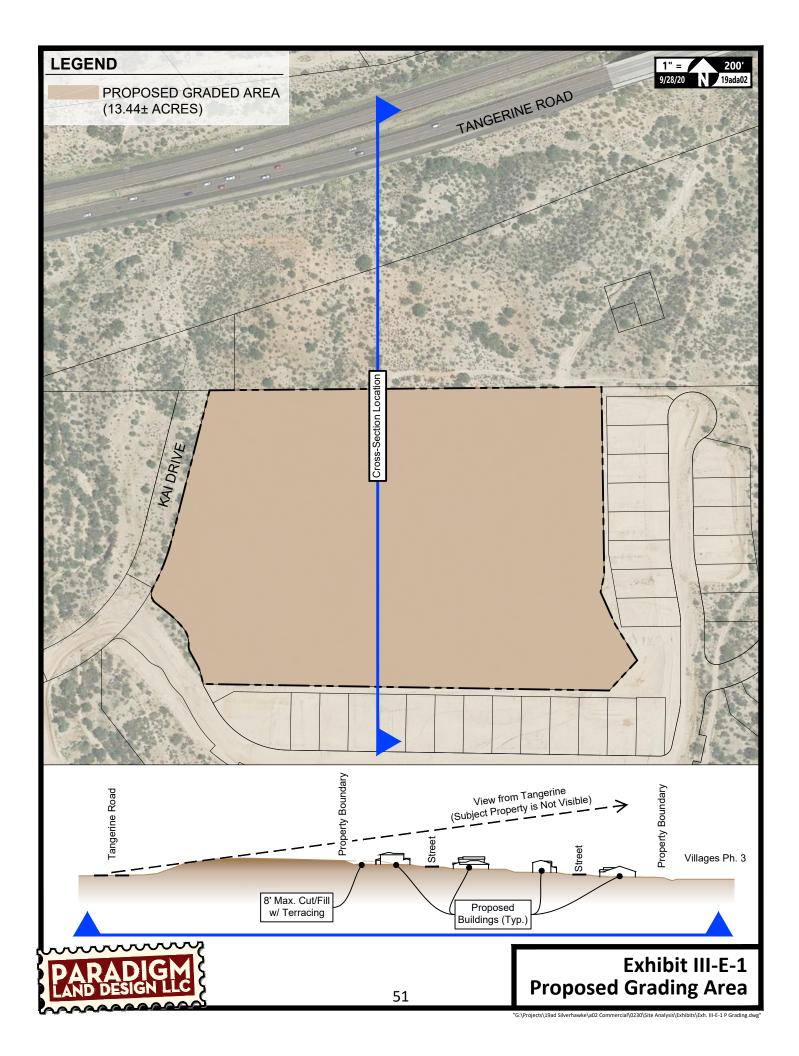
Per the 2015 rezoning of the entire 148-acre property at the southeast corner of Tangerine Road and First Avenue, no ESOS is required on this subject property.

There are no Priority Conservation Areas onsite.

E. TOPOGRAPHY

Most of the subject property has been previously graded by ADOT, and thus has an existing even downward slope generally from north to south. The south-facing slope of a low offsite ridgeline extends into the northern edge of the subject property. That portion of the property contains minimal areas of slope greater than 15%, none of which are regulated per the 2015 rezoning.

There are no Hillside Conservation Areas onsite.



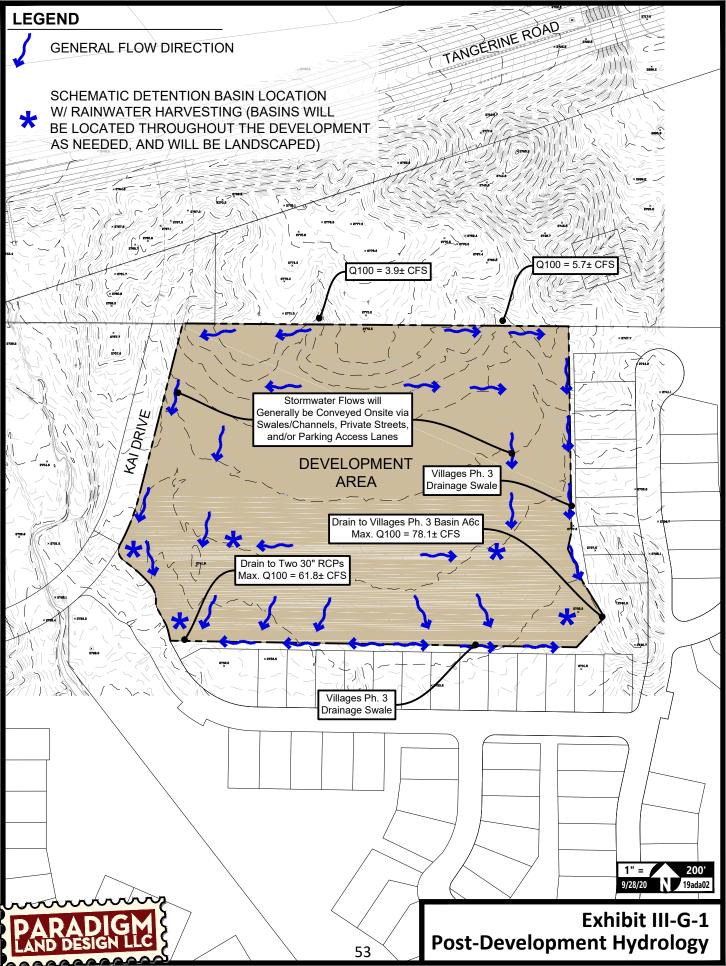
F. CULTURAL / ARCHAEOLOGICAL / HISTORIC RESOURCES

As discussed in Section II of this document, here are no cultural resource sites within the subject property. Even so, should qualifying artifacts or remains be discovered during construction they will be handled according to applicable antiquities laws.

G. HYDROLOGY

The upstream watershed impacting the subject property is very small, so most of the stormwater runoff leaving the subject property is generated onsite. Development of the subject property will increase the amount of impervious cover and therefore the post-development stormwater runoff as well. Detention basins will be constructed to detain the increased runoff. Outlet structures will meter the basin exit flows to return them to pre-development conditions as they leave the subject property. The Villages at Silverhawke Phase 3 subdivision shares the entire downstream property boundary with the subject property. That subdivision is currently under construction and has been designed to accept the pre-development stormwater flows that currently exit the subject property during a storm event.

There are no regulated 100-year floodplains onsite.



H. VEGETATION

Please refer to Appendix B – Site Resource Inventory. There are not individual plants or groups of plants that qualify as Significant Vegetation according to Town Code. This is due to the fact that most of the property has previously graded by ADOT a number of years ago. Even so, during the development review process the Native Plant Preservation Plan will identify individual plant specimens that may be viable for transplant and reuse within the project's landscape design.

I. WILDLIFE

Wildlife access to the site is limited by the Villages at Silverhawke subdivisions to the south and Tangerine Road to the north. Additionally, the previous mass grading of the property eliminated high-value habitat onsite.

J. VIEWSHEDS

The nearest residents in the Catalina Shadows subdivision are over 800 feet away and will be separated from this development not only by distance but also by homes to be built within the Villages at Silverhawke Phase 3. The nearest neighbors in the Villages at Silverhawke Phase 2 subdivision, which was part of the rezoning that created the subject property's C-1 zoning, are at least 350 feet away and separated from this development by a wash and the Villages Phase 3. The nearest neighbors in the Tangerine Hills subdivision are nearly 1,100 feet away and are separated from this development by a wash, the Villages Phases 2 & 3 subdivisions, and First Avenue. The nearest homes in Rancho Vistoso are over 2,000 feet away.

The subject property is minimally visible from Tangerine Road and First Avenue, so views from those roadways will not be impacted by this development.

The only nearby subdivision form which this project will be highly visible is the Villages at Silverhawke Phase 3, which is under construction with no actual residents yet. Even so, it is very important to remember that the existing commercial zoning of the subject property would allow development of a less compatible use than those uses proposed by this downzoning.

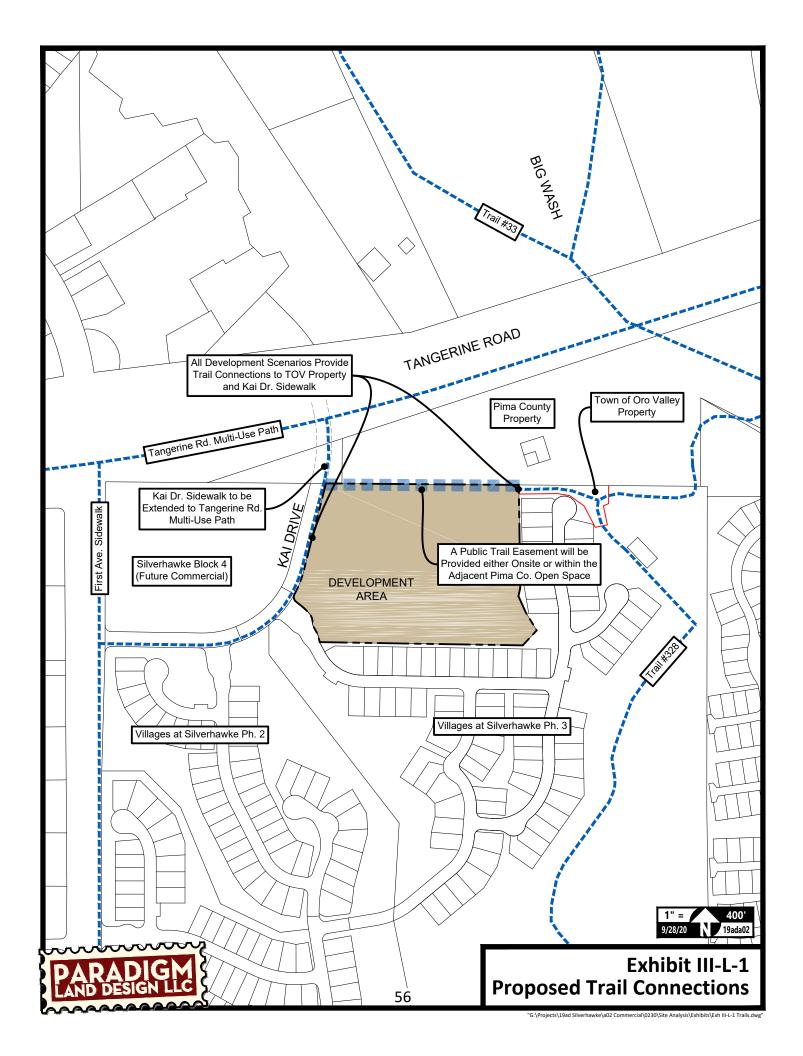
K. TRAFFIC

Access to the subject property will be via an extension of Kai Drive, which is a platted public roadway looping from First Avenue northeast to Tangerine Road. Once completed, Kai Drive will allow existing and future residents of this property and the Villages at Silverhawke subdivisions to access eastbound Tangerine Road directly without going through the Tangerine / First intersection. Similarly, the proposed left turn into Kai Drive from Tangerine will provide westbound motorists more convenient access to the subject property, Villages subdivisions, and future Block 4 retail opportunities. A previous traffic report by Southwest Traffic Engineering has shown that the Kai Drive loop connection to Tangerine is an improvement over the lone First Avenue access configuration that was shown in the 2015 rezoning.

An update to the previous traffic report is included with this document. The summary statement is that the proposed residential uses will have equal or less impact on nearby traffic patterns than would a commercial development on the subject property under existing zoning. Please refer to Appendix A – Traffic Impact Statement.

L. RECREATIONS & TRAILS

In similar fashion to the recreation areas provided throughout the Villages at Silverhawke subdivisions, a recreation area will be provided onsite for future residents. All open space areas will be privately owned and maintained by an HOA if developed as a single-family neighborhood, or the company owning the property if developed as a multifamily residential or senior care campus. Additionally, pedestrian connections will be provided to the future sidewalk along Kai Drive, which will connect to the multi-use paths along Tangerine Road and First Avenue. To the north of the subject property a hiking trail connection will be provided to the Pima County open space containing Trail #328. During the master planning and rezoning of the overall Kai-Capri property the Trail #328 alignment was refined and memorialized within public trail easements.



M. Schools

Students within this development will be served by schools in the Amphitheater Unified School District or by one of the charter schools within the area. Painted Sky Elementary is approximately one mile to the north of the project site, and Basis North is slightly more than one mile to the southeast of the project site. Students living within the subject property will be served by the following Amphitheater public schools: Painted Sky Elementary, Coronado K-8 School, and Ironwood Ridge High School. A school capacity letter has been received from Amphi School District indicating nearby schools have capacity available to serve this development. Please refer to Exhibit III-M-1: School Capacity Letter.

Exhibit III-M-1: School Capacity Letter



LEGAL DEPARTMENT

Michelle H. Tong, J.D. Associate to the Superintendent General Counsel

(520) 696-5156 • FAX (520) 696-5074

701 W. Wetmore Road • Tucson, AZ 85705 • (520) 696-5000 • www.amphi.com

GOVERNING BOARD MEMBERS

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SUPERINTENDENT Todd A. Jaeger, J.D.

DELIVERED VIA ELECTRONIC MAIL

September 30, 2020

Paul Oland Paradigm Land Design Paradigm Land Agency 7090 N. Oracle Road #178-193 Tucson, AZ 85704

> Tangerine Road/1st Avenue Planned Area Development RE:

Dear Mr. Oland:

I am responding to your request for information regarding the capacity of Amphitheater schools impacted by your proposed development.

Using 2000 demographic multipliers developed by the U.S. Department of Census, Bureau of Census, and adjusted for Amphitheater District's school organizational patterns, we project the following student populations to result from this project when built:

Academic Level	167 Multifamily Units	57 Single-family Homes
Elementary	18	12
Middle	12	13
High School	7	7

The census multipliers we use to obtain these projections are 0.1082 multifamily and 0.2075 single-family elementary students per household, 0.0694 multifamily and 0.2197 single-family middle school students per household, and 0.0406 multifamily and 0.1282 single-family high school students per household.

Amphitheater High School • Canyon del Oro High School • Ironwood Ridge High School

Amphitheater Middle School • Coronado K-8 School • Cross Middle School • La Cima Middle School • Wilson K-8 School

Copper Creck Elementary • Donaldson Elementary • Harelson Elementary • Holaway Elementary • Innovation Academy • Keeling Elementary

Mesa Verde Elementary • Nash Elementary • Painted Sky Elementary • Prince Elementary • Rio Vista Elementary • Walker Elementary • Rillito Center

Amphitheater Unified School District does not discriminate on the basis of race, color, religion/religious beliefs, gender, sex, age, national origin, sexual orientation, creed, citizenship status, marital status, political beliefs/saffiliation, disability, home language, family, social or cultural background in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Inquiries regarding the District's non-discrimination policies are handled at 701 W. Wetmore Road, Tucson, Arizona 85705 by David Rucker, Equity & Safety Compliance Officer, (520) 696-5164, ducker@amphi.com, or Kristin McGraw, Executive Director of Student Services, (520) 695-5230, <a href="https://linearchystol.com/mar/distribution/linearchystol/safety-family-saf

Exhibit III-M-1: School Capacity Letter (Cont'd)

Page 2

The schools which would be impacted by this population are listed below, along with the physical capacity available at each school *presently*. Please note that these schools will also be impacted by other developments in this area which may have already been approved by the Council but which are not yet built.

School Name	School Capacity	Spaces Currently Available
Painted Sky Elementary	645	248
Coronado K-8	1213	330
Ironwood Ridge High	2541	760

If I can provide any additional information, please feel free to contact me.

Sincerely

Kristin Magdziasz

Administrative Assistant to the Legal Department

N. UTILITIES

1. Water

The project will be served by Oro Valley Water Utility. A public water line will be extended along Kai Drive into the project. A water system loop will be created via a stub connection provided at the subject property's southeast corner adjacent to the Villages at Silverhawke Phase 3 subdivision.

2. Sewer

The project will connect to the public sewer system at a manhole at the southwest corner of the subject property. Please refer to Exhibit III-N-1: Sewer Capacity Letter

3. Dry Utilities

Tucson Electric Power, Southwest Gas, and Comcast Communications have all indicated they will provide service to the subject property via extensions of their facilities in Kai Drive along the property's western border.

Exhibit III-N-1: Sewer Capacity Letter



JACKSON JENKINS DIRECTOR PH: (520) 724-6500 FAX: (520) 724-9635

May 8, 2020

Paul Oland Paradigm Land Design LLC 7090 N Oracle Road, Suite 178-193 Tucson, Arizona 85704

Sewerage Capacity Investigation No. P20WC00079 Type I

RE: Silverhawke Block 5, Parcel 220060640 Estimated Flow 36,072 gpd (ADWF).

Greetings:

The above referenced project is tributary to the Tres Rios Wastewater Reclamation Facility via the Canada del Oro Interceptor.

Capacity is currently available for a project this size in the existing public sewer G-89-023, downstream from manhole 5310-B-15, via the proposed G-2019-056, from proposed manhole 40.

This letter is not a reservation or commitment of treatment or conveyance capacity for this project. It is an analysis of the system as of this date. Allocation of capacity is made by the Type III Capacity Response.

If further information is needed, please feel free to contact us at (520) 740-6607.

Reviewed by: Kurt Stemm, CEA Sr.

O. BUFFERYARDS

The subject property is bounded on the west by the Kai Drive alignment, on the north by County-owned open space, and on the south and east by the Villages at Silverhawke Phase 3 subdivision. Along its shared boundary with the subject property the Villages subdivision already includes a landscape bufferyard that will count toward this project's required landscape bufferyard along that boundary. Landscape bufferyards will also be provided along the northern and western boundaries as required by Town Code. The table below summarizes the required bufferyards.

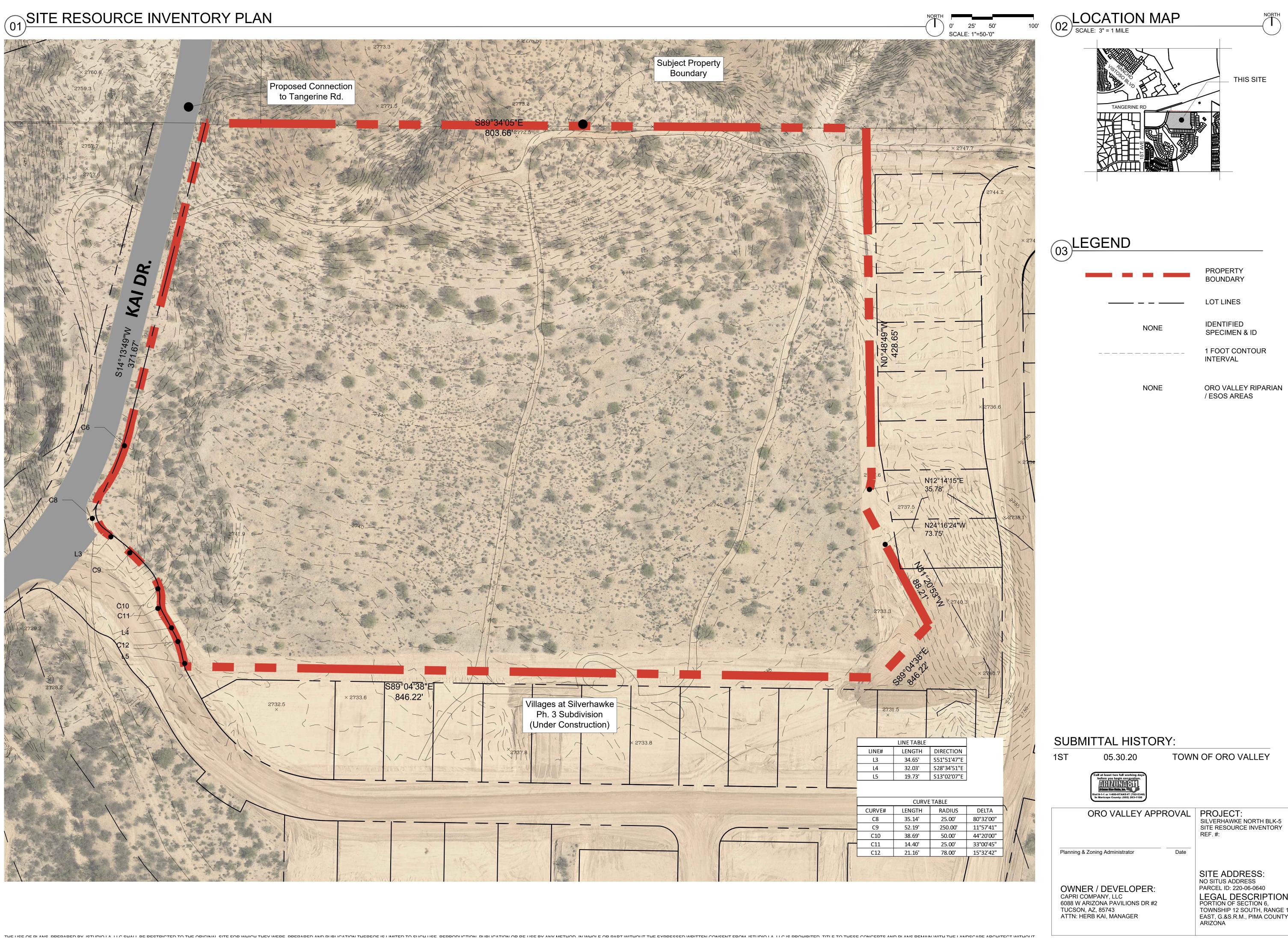
Development Scenario	North	West	South	East
'A' Apartments	10 ft. Type 'A'	35 ft. Type 'A'	15 ft. Type 'B'	15 ft. Type 'B'
'B' Rental Casitas	10 ft. Type 'A'	15 ft. Type 'A'	15 ft. Type 'B'	15 ft. Type 'B'
'C' Senior Care	10 ft. Type 'A'	15 ft. Type 'A'*	15 ft. Type 'B'	15 ft. Type 'B'
'D' Townhomes	10 ft. Type 'A'	15 ft. Type 'A'	15 ft. Type 'B'	15 ft. Type 'B'
'E' Detached Homes	None Req'd.	15 ft. Type 'A'	None Req'd.	None Req'd.

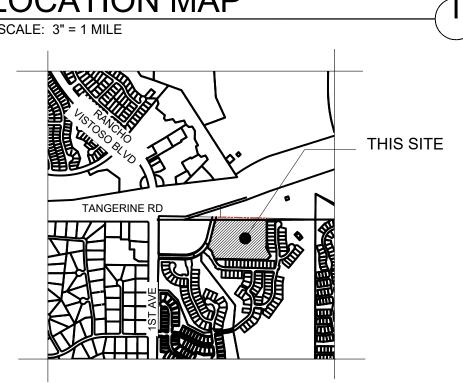
^{* 35&#}x27; bufferyard is required where parking abuts roadways.

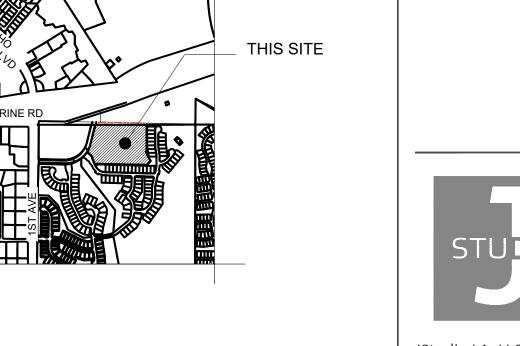
IV. APPENDIX A – TRAFFIC IMPACT STATEMENT

The Traffic Impact Statement has been provided under separate cover.

V.	ADDENIDIV	D CITE	DECOURCE	INVENTORY
V.	APPENDIX	$\mathbf{D} - \mathbf{D} \mathbf{H} \mathbf{E}$	KESOURCE	INVENIORY







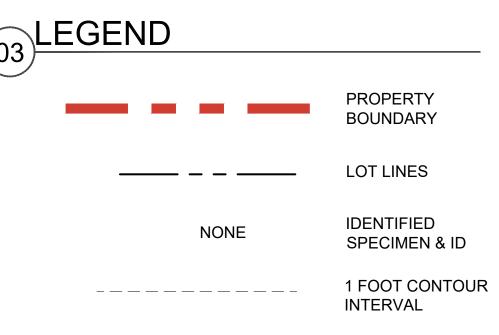
ORO VALLEY RIPARIAN / ESOS AREAS

TOWN OF ORO VALLEY

SITE ADDRESS: NO SITUS ADDRESS PARCEL ID: 220-06-0640

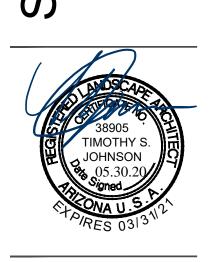
ARIZÓNA

LEGAL DESCRIPTION:
PORTION OF SECTION 6,
TOWNSHIP 12 SOUTH, RANGE 14
EAST, G.&S.R.M., PIMA COUNTY,





JStudio LA, LLC landscape architecture + site planning 8197 north white stallion pl, tucson, az, 85743 520.405.9642 www.jstudio.biz



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X	XXXXXXX	XX.XX.XX
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X	XXXXXXX	XX.XX.XX

- SCHEMATIC DESIGN DESIGN DEVELOPMENT
- CONSTRUCTION DOCUMENTS AGENCY REVIEW BIDDING/PRICING PACKAGE

CONSTRUCTION ISSUE

PROJ. NO.: CCL.01 DATE: 20.05.26

DRAWN BY: TSJ CHECKED BY: TSJ

AGENCY REFERENCE NO.: OV1700647, OV1600017, OV914-002, OV115-003

> SITE RESOURCE INVENTORY

PLAN VIEW L1.0

01 of 02

- 1. ZONING:
- 1.1. EXISTING: C-1 COMMERCIAL
- 1.2. PROPOSED: R-6 RESIDENTIAL
- 2. GROSS SITE AREA: 13.4 ACRES
- 3. APPLICABLE REZONING CONDITIONS INCLUDE:
- 5.G. "NATIVE PLANT PRESERVATION: THE NATIVE PLANT SALVAGE AND MITIGATION REQUIREMENTS OF SECTION 27.6 ARE WAIVED FOR ALL DEVELOPMENT WITHIN DEVELOPMENT ENVELOPES."
- 4. <u>LIST ALL APPLICABLE GENERAL PLAN, REZONING, CONDITIONAL USE PERMIT (CUP), OR ANNEXATION CONDITIONS AND ASSOCIATED CASE NUMBER IMPACTING THE PROJECT, INCLUDING ANY APPLICABLE PIMA COUNTY CASE NUMBERS.</u>
- 5. THERE ARE NO VARIANCES APPLICABLE TO THIS PROPERTY.
- 6. THE VAST MAJORITY OF THIS SITE WAS DISTURBED AND GRADED IN THE EARLY 1990s AS EVIDENT IN HISTORICAL AERIAL IMAGERY. AS A RESULT THERE IS NO SIGNIFICANT VEGETATION ON SITE AS DEFINED BY ORO VALLEY 27.6.B.3.
- 7. SIGNIFICANT VEGETATION INFORMATION:
- 7.1. STANDS OF SIGNIFICANT VEGETATION:
- NO SIGNIFICANT VEGETATION EXISTING ON SITE (PER INVENTORY ON 05.18.20.)
- 7.2. INDIVIDUAL PLANTS OF SIGNIFICANT VEGETATION:
- NO SIGNIFICANT VEGETATION EXISTING ON SITE (PER INVENTORY ON 05.18.20.)
- 7.1. TOTAL AMOUNT PRESENT ON-SITE: 0 SF
- 7.2. TOTAL AMOUNT BEING DISTURBED: 0 SF
- 7.3. TOTAL PERCENTAGE DISTURBED: 0%
- 8. SIGNIFICANT VEGETATION MITIGATION: NONE REQUIRED.

9. THIS AERIAL PHOTO IS LESS THAN TWO YEARS OLD.

- 10. THIS SITE HAS NO UNIQUE ROCK OUTCROPPINGS.
- 11. NO PORTION OF THE SITE HAS SLOPES GREATER THAN 15%.
- 12. THE MAJORITY OF THE SITE HAS BEEN PREVIOUSLY DISTURBED.
- 13. THERE ARE NO MAPPED WASHES ON THE SITE.
- 14. NO SIGNIFICANT VEGETATION PRESENT ON SITE AND NO TAGS USED IN SRI INVENTORY.
- 15. ANY SPADED OR BOXED TREE TRANSPLANTED ON SITE THAT DIES DUE TO NEGLECT OR LACK OF MAINTENANCE SHALL BE REPLACED WITH THE SAME SIZE AND SPECIES OF THE ORIGINAL SALVAGED TREE, AS REQUIRED BY THE SALVAGE PLAN.
- 16. NO SALVAGE OF PLANTS REGULATED BY THE ENDANGERED SPECIES ACT AND/OR THE ARIZONA NATIVE PLANT LAW MAY OCCUR WITHOUT THE ISSUANCE OF THE APPROPRIATE PERMIT BY THE STATE DEPARTMENT OF AGRICULTURE.
- 17. SALVAGE OF OPERATIONS SHALL NOT COMMENCE UNTIL THE ZONING INSPECTOR HAS PERFORMED AN INSPECTION AND GIVEN APPROVAL TO BE SALVAGED.
- 18. TEMPORARY NURSERY SHALL BE IN CONFORMANCE WITH SECTION 27.6.B.4.J.
- 19. ANY PLANT THAT MEETS THE SALVAGE CRITERIA IN SECTION 27.6.B.4 SHALL BE PRESERVED IN PLACE OR TRANSPLANTED ON-SITE. ANY PLANTS THAT MEET THE SALVAGE CRITERIA THAT ARE DESTROYED SHALL BE REPLACED ON A ONE-TO-ONE RATIO OF THE SAME SPECIES AND SIZE AS THAT DESTROYED. FIVE UNDERSTORY PLANTS FROM THE SUPPLEMENTAL ARIZONA DEPARTMENT OF WATER QUALITY NATIVE PLANT LIST WILL BE PLANTED FOR EVERY MITIGATED TREE.

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- 20. THE LIMITS OF GRADING SHALL BE STAKED IN THE FIELD, IN ACCORDANCE WITH SECTION 27.6.B.7.C.II.
- 21. DISTURBANCE OUTSIDE THE APPROVED GRADING LIMITS SHALL NOT BE PERMITTED.



JStudio LA, LLC landscape architecture + site planning 8197 north white stallion pl, tucson, az, 85743 520.405.9642 www.jstudio.biz

> ILVERHAWKE NORTH BLOCK 5 (SRI) PARCEL 220-06-0640 ORO VALLEY, AZ



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X	XXXXXXX	XX.XX.XX
Χ	XXXXXXX	XX.XX.X
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X	XXXXXXX	XX.XX.XX
	•	•

□ SCHEMATIC DESIGN□ DESIGN DEVELOPMENT

NO. | REVISION

- ☐ CONSTRUCTION DOCUMENTS
 AGENCY REVIEW
- □ BIDDING/PRICING PACKAGE□ CONSTRUCTION ISSUE

PROJ. NO.: CCL.01 DATE: 20.05.26 DRAWN BY: TSJ CHECKED BY: TSJ

AGENCY REFERENCE NO.: OV1700647, OV1600017, OV914-002, OV115-003

ORO VALLEY APPROVAL

AL PROJECT:
SILVERHAWKE NORTH BLK-5
SITE RESOURCE INVENTORY
REF. #:

Planning & Zoning Administrator

5

Date

OWNER / DEVELOPER: CAPRI COMPANY, LLC 6088 W ARIZONA PAVILIONS DR #2 TUCSON, AZ, 85743 ATTN: HERB KAI, MANAGER SITE ADDRESS:
NO SITUS ADDRESS
PARCEL ID: 220-06-0640

LEGAL DESCRIPTION:
PORTION OF SECTION 6,
TOWNSHIP 12 SOUTH, RANGE 14
EAST, G.&S.R.M., PIMA COUNTY,
ARIZONA

SITE RESOURCE INVENTORY

NOTES L2.0

02 of 02

VI. APPENDIX C – AZ GAME & FISH DEPT. ONLINE REVIEW TOOL RESULTS

Arizona Environmental Online Review Tool Report



Arizona Game and Fish Department Mission
To conserve Arizona's diverse wildlife resources and manage for safe, compatible outdoor recreation
opportunities for current and future generations.

Project Name:

Silverhawke Blk 5

Project Description:

Proposed downzoning to allow residential development of the property.

Project Type:

Development Within Municipalities (Urban Growth), Residential subdivision and associated infrastructure, New construction

Contact Person:

Paul Oland

Organization:

Paradigm Land Design LLC

On Behalf Of:

CONSULTING

Project ID:

HGIS-11152

Please review the entire report for project type and/or species recommendations for the location information entered. Please retain a copy for future reference.

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Arizona Game and Fish Department Project ID: HGIS-11152 project_report_silverh.awke_bk_5_35825_37004.pdf Review D ate: 5/13/2020 05:01:32 PM

Disclaimer:

- This Environmental Review is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
- This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge
 gained by having a biologist conduct a field survey of the project area. This review is also not intended to
 replace environmental consultation (including federal consultation under the Endangered Species Act),
 land use permitting, or the Departments review of site-specific projects.
- 3. The Departments Heritage Data Management System (HD MS) data is not intended to include potential distribution of special status species. Arizona is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. HDMS data contains information about species occurrences that have actually been reported to the Department. Not all of Arizona has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.
- 4. HabiMap Arizonal data, specifically Species of Greatest Conservation Need (SGCN) under our State Wildlife Action Plan (SWAP) and Species of Economic and Recreational Importance (SERI), represent potential species distribution models for the State of Arizonal which are subject to ongoing change, modification and refinement. The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assessment.

Locations Accuracy Disclaimer:

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Report is solely responsible for the project location and thus the correctness of the Project Review Report content.

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Recommendations Disclaimer:

- The Department is interested in the conservation of all fish and wildlife resources, including those
 species listed in this report and those that may have not been documented within the project vicinity as
 well as other game and nongame wildlife.
- Recommendations have been made by the Department, under authority of Arizona Revised Statutes
 Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation).
- Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations
 generated from information submitted for your proposed project. These recommendations are preliminary
 in scope, designed to provide early considerations on all species of wildlife.
- 4. Making this information directly available does not substitute for the Departments review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
- 5. Further coordination with the Department requires the submittal of this Environmental Review Report with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map). Once AGFD had received the information, please allow 30 days for completion of project reviews. Send requests to:

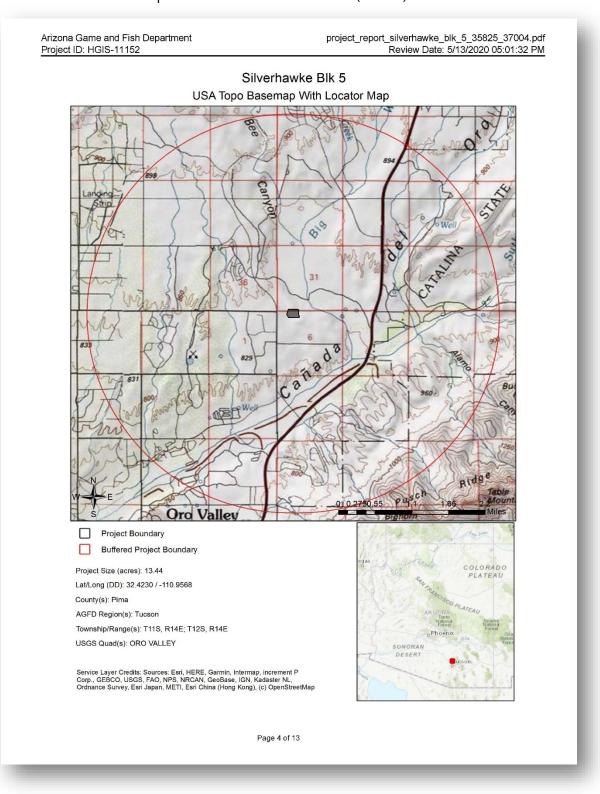
Project Evaluation Program, Habitat Branch Arizona Game and Fish Department 5000 West Carefree Highway Phoenix, Arizona 85088-5000

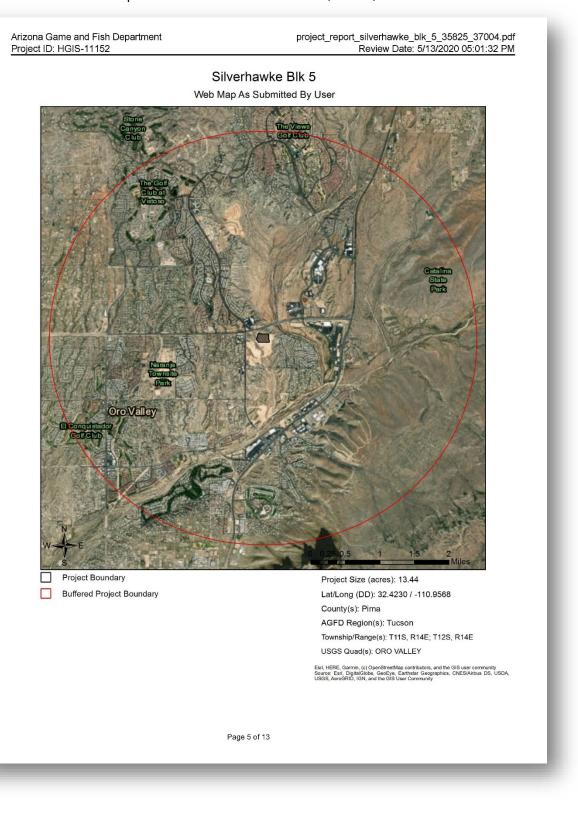
Phone Number: (623) 236-7600 Fax Number: (623) 236-7366

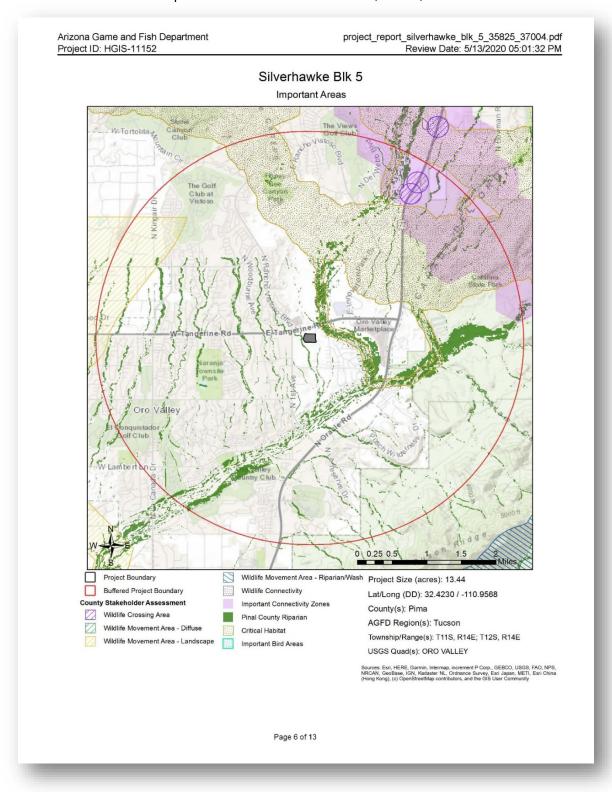
Or

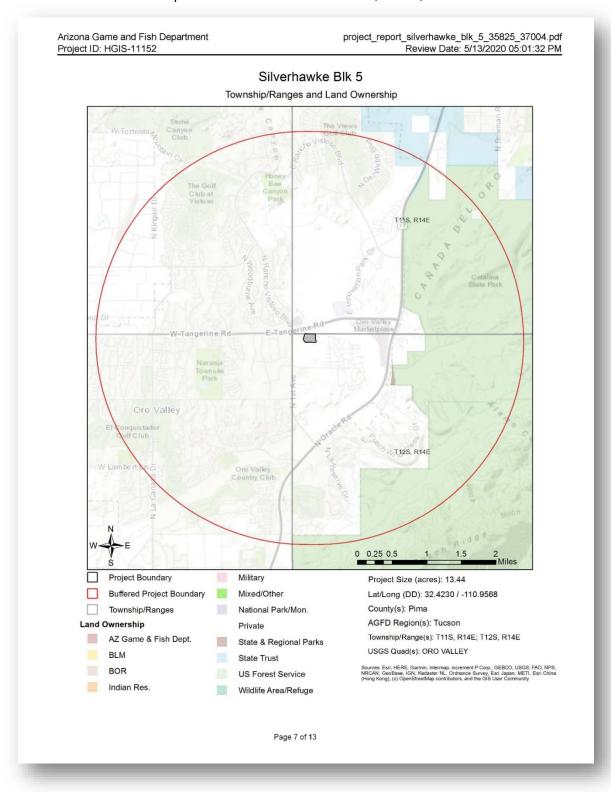
PEP@azofd.gov

 Coordination may also be necessary under the National Environmental Policy Act (NEPA) and/or Endangered Species Act (ESA). Site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies









Arizona Game and Fish Department project_report_silverhawke_bk_5_35825_37004.pdf Project ID: HGIS-11152 Review Date: 5/13/2020 05:01:32 PM

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Abutilon parishii	Pima Indian Mallow	SC	S	S	SR	
Aspidoscelis stictogramma	Giant Spotted Whiptail	SC	s			18
Aspidoscelis xanthonota	Red-backed Whiptail	SC	S			18
Coccyzus americanus	Yellow-billed Cuckoo (Western DPS)	LT	s			1A
Empidonax traillii extimus	Southwestern Willow Flycatcher	LE				1A
Falco peregrinus anatum	American Peregrine Falcon	SC	s	S		1A
Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	SC	s	S		18
Gopherus morafkai	Sonoran Desert Tortoise	CCA	s	S		1A
Heloderma suspectum suspectum	Reticulate Gila Monster					1A
Heloderma suspectum	Gila Monster					1A
Lepus alleni	Antelope Jackrabbit					1B
Lithobates yavapaiensis	Lowland Leopard Frog	SC	s	S		1A
Notholaena lemmonii	Lemmon Cloak Fern	SC				
Terrapene ornata luteola	Desert Box Turtle			s		1A

Note: Status code definitions can be found at https://www.azofd.com/wildlife/planning/wildlifeguidelines/statusdefinitions/

Special Areas Documented within the Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Riparian Area	Riparian Area		s ///			

Note: Status code definitions can be found at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/statusdefinitions/

Species of Greatest Conservation Need Predicted within the Project Vicinity based on Predicted Range Models

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Aix sponsa	Wood Duck					18
Ammospermophilus harrisii	Harris' Antelope Squirrel					18
Anthus spragueii	Sprague's Pipit	SC				1A
Antrostomus ridgwayi	Buff-collared Nightjar		s			1B
Aquila chrysaetos	Golden Eagle	BGA		S		1B
Aspidoscelis stictogramma	Giant Spotted Whiptail	sc	s			18
Aspidoscelis xanthonota	Red-backed Whiptail	sc	s			18
Botaurus lentiginosus	American Bittern					18
Calypte costae	Costa's Hummingbird					1C
Chilomenis cus stramineus	Variable Sandsnake					1B
Colaptes chrysoides	Gilded Flicker			S		18
Coluber biline atus	Sonoran Whipsnake					18
Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	SC	S	S		18
Crotalus tigris	Tiger Rattlesnake					1B

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Species of Greatest Conservation	Need Predicted within the Project	Meinity b	ased on	Predict	ed Ran	ge Mod
Scientific Name	Common Name	FWS	USFS	District Control	190,000	SGCN
Cynanthus latirostris	Broad-billed Hummingbird		s			1B
Dipodomys spectabilis	Banner-tailed Kangaroo Rat			s		1B
Empidona×wrightii	Gray Flycatcher					10
Euderma maculatum	Spotted Bat	sc	s	s		18
Eumops perotis californicus	Greater Western Bonneted Bat	sc		S		1B
Falco peregrinus anatum	American Peregrine Falcon	SC	s	s		1A
Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	sc	s	S		18
Gopherus morafkai	Sonoran Desert Tortoise	CCA	s	S		1A
Haliae etus leu cocephalus	Bald Eagle	SC, BGA	S	S		1A
Heloderma suspectum	Gila Monster					1A
Incilius alvarius	Sonoran Desert Toad					18
Kinosternon sonoriense sonoriense	Desert Mud Turtle			s		1B
Lasiurus blossevillii	Western Red Bat		S			18
Lasiurus ×anthinus	Western Yellow Bat		s			18
Leopardus pardalis	Ocelot	LE				1A
Leptonycteris yerbabuenae	Lesser Long-nosed Bat	sc				1A
Lepus alleni	Antelope Jackrabbit					18
Macrotus californicus	California Leaf-nosed Bat	sc		s		18
Melanerpes uropygialis	Gila Woodpecker					1B
Meleagris gallopavo mexicana	Gould's Turkey		s			18
Melospiza lincolnii	Lincoln's Sparrow					18
Melozone aberti	Abert's Towhee		s			18
Micrathene whitneyi	Elf Owl					1C
Micruroides euryxanthus	Sonoran Coralsnake					1B
Myiarchus tyrannulus	Brown- crested Flycatcher					10
Myotis occultus	Arizona Myotis	sc		s		18
Myotis velifer	Cave Myotis	sc		S		18
Myotis yumanensis	Yuma Myotis	sc				18
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					1B
Oreoscoptes montanus	Sage Thrasher					10
Oreothlypis luciae	Lucy's Warbler					10
Panthera onca	Jaguar	LE				1A
Peucaea carpalis	Rufous-winged Sparrow					18
Phrynosomasolare	Regal Horned Lizard					18
Phyllorhynchus browni	Saddled Leaf-nosed Snake					1B
Progne subis hesperia	Desert Purple Martin			s		18
Setophaga petechia	Yellow Warbler					18
Sphyrapicus nuchalis	Red-naped Sapsucker					1C
Spizella breweri	Brewer's Sparrow					10

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Species of Greatest Conservation Need Predicted within the Project Micinity based on Predicted Range Models Scientific Name Common Name FWS USFS BLM Tadarida brasiliensis Brazilian Free-tailed Bat 18 LeConte's Thrasher 18 Toxostoma le contei S Troglodytes pacificus Pacific \0/ren 18 Vireo bellii arizonae Arizona Bell's Vireo 18 Vulpes macrotis Kit Fox Nο 1B

Species of Economic and Recreation Importance Predicted within the Project Vicinity

Status

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Callipepla gambelii	Gambels Quail					
Odocoileus hemionus	Mule Deer					
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaida asiatica	White-winged Dove					
Zenaida macroura	Mourning Dove					

Project Type: Development Within Municipalities (Urban Growth), Residential subdivision and associated infrastructure, Newconstruction

Project Type Recommendations:

Fence recommendations will be dependant upon the goals of the fence project and the wildlife species expected to be impacted by the project. General guidelines for ensuring wildlife-friendly fences include: barbless wire on the top and bottom with the maximum fence height 42", minimum height for bottom 16". Modifications to this design may be considered for fencing anticipated to be routinely encountered by elk, bighorn sheep or pronghorn (e.g., Pronghorn fencing would require 18" minimum height on the bottom). Please refer to the Department's Fencing Guidelines located on Wildlife Friendly Guidelines page, which is part of the Wildlife Planning button at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/.

During the planning stages of your project, please consider the local or regional needs of wildlife in regards to movement, connectivity, and access to habitat needs. Loss of this permeability prevents wildlife from accessing resources, finding mates, reduces gene flow, prevents wildlife from re-colonizing areas where local extirpations may have occurred, and ultimately prevents wildlife from contributing to ecosystem functions, such as pollination, seed dispersal, control of prey numbers, and resistance to invasive species. In many cases, streams and washes provide natural movement corridors for wildlife and should be maintained in their natural state. U plands also support a large diversity of species, and should be contained within important wildlife movement corridors. In addition, maintaining biodiversity and ecosystem functions can be facilitated through improving designs of structures, fences, roadways, and culverts to promote passage for a variety of wildlife. Guidelines for many of these can be found at: https://www.azofd.com/wildlife/planning/wildlifequidelines/.

Consider impacts of outdoor lighting on wildlife and develop measures or alternatives that can be taken to increase human safety while minimizing potential impacts to wildlife. Conduct wildlife surveys to determine species within project area, and evaluate proposed activities based on species biology and natural history to determine if artificial lighting may disrupt behavior patterns or habitat use. Use only the minimum amount of light needed for safety. Narrow spectrum bulbs should be used as often as possible to lower the range of species affected by lighting. All lighting should be shielded, canted, or out to ensure that light reaches only areas needing illumination.

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Minimize potential introduction or spread of exotic invasive species. Invasive species can be plants, animals (exotic snails), and other organisms (e.g., microbes), which may cause alteration to ecological functions or compete with or prey upon native species and can cause social impacts (e.g., livestock forage reduction, increase wildfire risk). The terms noxious weed or invasive plants are often used interchangeably. Precautions should be taken to wash all equipment utilized in the project activities before leaving the site. Arizona has noxious weed regulations (Arizona Revised Statutes, Rules R3-4-244 and R3-4-245). See Arizona Department of Agriculture website for restricted plants, https://agriculture.az.gov/. Additionally, the U.S. Department of Agriculture has information regarding pest and invasive plant control methods including: pesticide, herbicide, biological control agents, and mechanical control, https://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/water/quality/?cid=stelprdb1044769 The Department regulates the importation, purchasing, and transportation of wildlife and fish (Restricted Live Wildlife), please refer to the hunting regulations for further information https://www.azgfd.com/hunting/regulations.

The construction or maintenance of water developments should include: incorporation of aspects of the natural environment and the visual resources, maintaining the water for a variety of species, water surface area (e.g., bats require a greater area due to in-flight drinking), accessibility, year-round availability, minimizing potential for water quality problems, frequency of flushing, shading of natural features, regular clean-up of debris, escape ramps, minimizing obstacles, and minimizing accumulation of sit and mud.

Minimization and mitigation of impacts to wildlife and fish species due to changes in water quality, quantity, chemistry, temperature, and alteration to flow regimes (timing, magnitude, duration, and frequency of floods) should be evaluated. Minimize impacts to springs, in-stream flow, and consider irrigation improvements to decrease water use. If dredging is a project component, consider timing of the project in order to minimize impacts to spawning fish and other aquatic species (include spawning seasons), and to reduce spread of exotic invasive species. We recommend early direct coordination with Project Evaluation Program for projects that could impact water resources, wetlands, streams, springs, and/or riparian habitats.

The Department recommends that wildlife surveys are conducted to determine if noise-sensitive species occur within the project area. Avoidance or minimization measures could include conducting project activities outside of breeding seasons.

Based on the project type entered, coordination with State Historic Preservation Office may be required (http://azstatep.arks.com/SHPQ/index.html).

Trenches should be covered or back-filled as soon as possible. Incorporate escape ramps in ditches or fencing along the perimeter to deter small mammals and herptefauna (snakes, lizards, tortoise) from entering ditches.

Communities can actively support the sustainability and mobility of wildlife by incorporating wildlife planning into their regional/comprehensive plans, their regional transportation plans, and their open space/conservation land system programs. An effective approach to wildlife planning begins with the identification of the wildlife resources in need of protection, an assessment of important habitat blocks and connective corridors, and the incorporation of these critical wildlife components into the community plans and programs. Community planners should identify open spaces and habitat blocks that can be maintained in their area, and the necessary connections between those blocks to be preserved or protected. Community planners should also work with State and local transportation planning entities, and planners from other communities, to foster coordination and cooperation in developing compatible development plans to ensure wildlife habitat connectivity. The Department's guidelines for incorporating wildlife considerations into community planning and developments can be found on the Wildlife Friendly Guidelines portion of the Wildlife Planning page at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/.

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Design culverts to minimize impacts to channel geometry, or design channel geometry (low flow, overbank, floodplains) and substrates to carry expected discharge using local drainages of appropriate size as templates. Reduce/minimize barriers to allow movement of amphibians or fish (e.g., eliminate falls). Also for terrestrial wildlife, washes and stream corridors often provide important corridors for movement. Overall culvertwidth, height, and length should be optimized for movement of the greatest number and diversity of species expected to utilize the passage. Culvert designs should consider moisture, light, and noise, while providing clear views at both ends to maximize utilization. For many species, fencing is an important design feature that can be utilized with culverts to funnel wildlife into these areas and minimize the potential for roadway collisions. Guidelines for culvert designs to facilitate wildlife passage can be found on the home page of this application at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/.

Based on the project type entered, coordination with Arizona Department of Environmental Quality may be required (http://www.azdeq.gov/D.

Based on the project type entered, coordination with Arizona Department of Water Resources may be required (https://new.azwater.gov/).

Based on the project type entered, coordination with U.S. Army Corps of Engineers may be required (http://www.usace.armv.mil/)

Based on the project type entered, coordination with County Flood Control district(s) may be required.

Development plans should provide for open natural space for wildlife movement, while also minimizing the potential for wildlife-human interactions through design features. Please contact Project Evaluation Program for more information on living with urban wildlife at PEP@azofd.gov or

at https://www.azgfd.com/wildlife/pl.anning/wildlifeguidelines/_and https://www.azgfd.com/wildlife/Living/with.

Vegetation restoration projects (including treatments of invasive or exotic species) should have a completed siteevaluation plan (identifying environmental conditions necessary to re-establish native vegetation), a revegetation plan (species, density, method of establishment), a short and long-term monitoring plan, including adaptive management guidelines to address needs for replacement vegetation.

The Department requests further coordination to provide project species specific recommendations, please contact Project Evaluation Program directly at PEP@azqid.gov.

Project Location and/or Species Recommendations:

HDMS records indicate that one or more native plants listed on the Arizona Native Plant Lawrand Antiquities Act have been documented within the vicinity of your project area. Please contact

Arizona Department of Agriculture

1688 W Adams St.

Phoenix, AZ 85007

Phone: 602.542.4373

https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rules%20-%20AZ%20Dept%20of%20Ag.pdf.starts on page 44

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HDMS records indicate that one or more Listed, Proposed, or Candidate species or Critical Habitat (Designated or Proposed) have been documented in the vicinity of your project. The Endangered Species Act (ESA) gives the US F ish and Wildlife Service (USFWS) regulatory authority over all federally listed species. Please contact USFWS Ecological Services Offices at http://www.fws.gov/southwest/es/arizona/ or:

Phoenix Main Office 9828 North 31st Avenue #C3 Phoenix, AZ 85051-2517 Phone: 602-242-0210 Fax: 602-242-2513 Tucson Sub-Office 201 N. Bonita Suite 141 Tucson, AZ 85745 Phone: 520-670-6144 Fax: 520-670-6155

Flagstaff Sub-Office SW Forest Science Complex 2500 S. Pine Knoll Dr. Flagstaff, AZ 86001 Phone: 928-556-2157 Fax: 928-556-2121

HDMS records indicate that Sonoran Desert Tortoise have been documented within the vicinity of your project area. Please review the Tortoise Handling Guidelines found at: https://www.azgfd.com/wildlife/nongamemanagement/tortoise/

This review has identified riparian areas within the vicinity of your project. During the planning stage of your project, avoid, minimize, or mitigate any potential impacts to riparian areas identified in this report. Riparian areas play an important role in maintaining the functional integrity of the landscape, primarily by acting as natural drainages that convey water through an area, thereby reducing flood events. In addition, riparian areas provide important movement corridors and habitat for fish and wildlife. Riparian areas are channels that contain water year-round or at least part of the year. Riparian areas also include those channels which are dry most of the year, but may contain or convey water following rain events. All types of riparian areas offer vital habitats, resources, and movement corridors for wildlife. The Pinal County Comprehensive Plan (i.e. policies 6.1.2.1 and 7.1.2.4). Open Space and Trails Master Plan, Drainage Ordinance, and Drainage Design Manual all identify riparian area considerations, guidance, and policies. Guidelines to avoid, minimize, or mitigate impacts to riparian habitat can be found

at https://www.azofd.com/wildlife/planning/wildlifeguidelines/. Based on the project type entered, further consultation with the Arizona Game and Fish Department and Pinal County may be warranted.

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