



City of Phoenix

PLANNING & DEVELOPMENT DEPARTMENT

Staff Report Z-3-A-15-1 (Norterra PUD - Amendment A) January 3, 2020

Deer Valley [Village Planning Committee](#) January 16, 2020
[Planning Commission](#) Hearing Date February 6, 2020
Request From: PUD (397.86 acres), CP/GCP PCD M-R (9.77 acres), S-1 (Approved CP/GCP M-R PCD) (0.27 acres)
Request To: PUD (407.90 acres)
Proposed Use Major Amendment to the Norterra PUD to expand the boundary
Location Northwest corner of 19th Avenue and Happy Valley Road
Owner USAA, et al
Applicant US RELP Norterra East I, LLC
Representative Withey Morris PLC, William F. Allison
Staff Recommendation Approval, subject to stipulations.

<u>General Plan Conformity</u>			
<u>General Plan Land Use Map Designation</u>		Commerce / Business Park and Mixed Use (Commercial, Commerce Park/Business Park, Residential 5 to 10, 10 to 15, and 15 + dwelling units per acre)	
<u>Street Map Classification</u>	Norterra Drive	Private	Approximately 26 to 78-foot wide street
	Norterra Parkway	Collector	<u>West side:</u> 55-foot half street width, <u>East side:</u> 77-foot half street width
	19th Avenue	Major Arterial	80-foot west half street
	Happy Valley Road	Major Arterial	75-foot north half street
	Jomax Road	Arterial	60-foot south half street

STRENGTHEN OUR LOCAL ECONOMY; LOCAL AND SMALL BUSINESS; LAND USE PRINCIPLE: Facilitate adaptive reuse of older, underutilized properties to create mechanisms for new local and small businesses to operate, thrive and grow.

The addition of the land area around Norterra Drive, the USAA Campus frontage road, will allow the possibility of small businesses to develop with frontage along Norterra Drive.

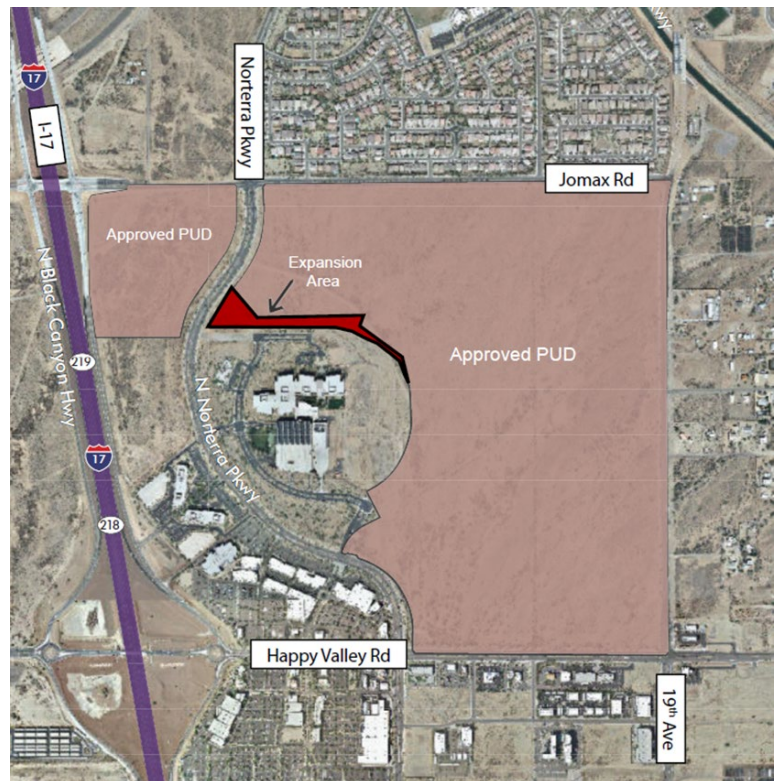
CELEBRATE OUR DIVERSE COMMUNITIES & NEIGHBORHOODS CORE VALUE; SAFE NEIGHBORHOODS, CLEAN NEIGHBORHOODS PRINCIPLE: Facilitate the acquisition of vacant, underutilized and blighted parcels for appropriate redevelopment, compatible with the adjacent neighborhood character and adopted area plans.

The subject site is an irregular shape and is currently vacant. The proposed inclusion of this parcel into the Norterra PUD will greatly improve site conditions by allowing for greater setbacks and landscaping. The proposed development is sensitive to surrounding residential and commercial development, thereby warranting the reasonable levels of increased land area required for the project.

Background/Issues/Analysis

Subject Site

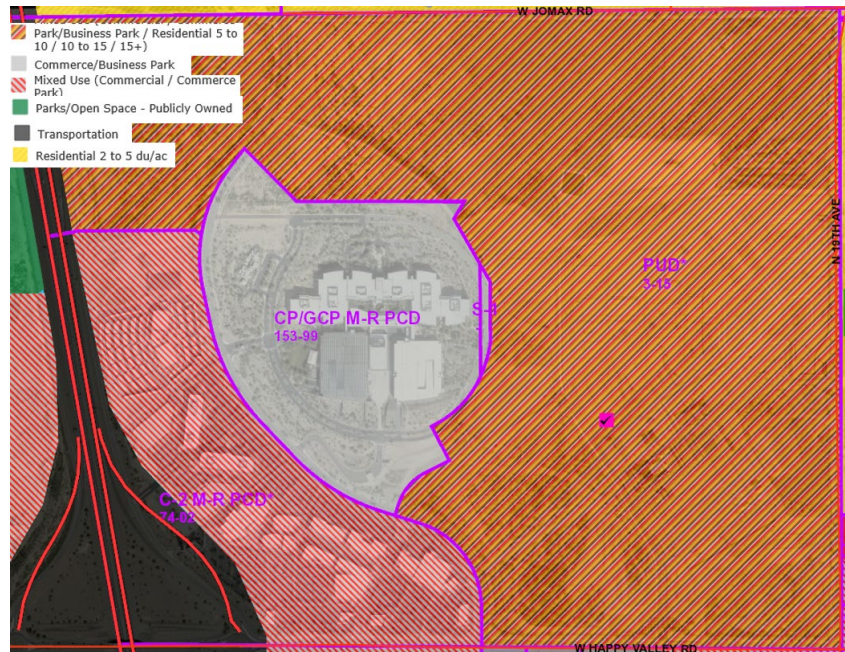
1. The Norterra PUD was approved by the Phoenix City Council on July 1, 2015. This request is a Major Amendment to the Norterra PUD to expand the boundary by 10.04 acres for a total of 407.90 acres. No changes are being made to the development standards.



Source: City of Phoenix Planning and Development Department

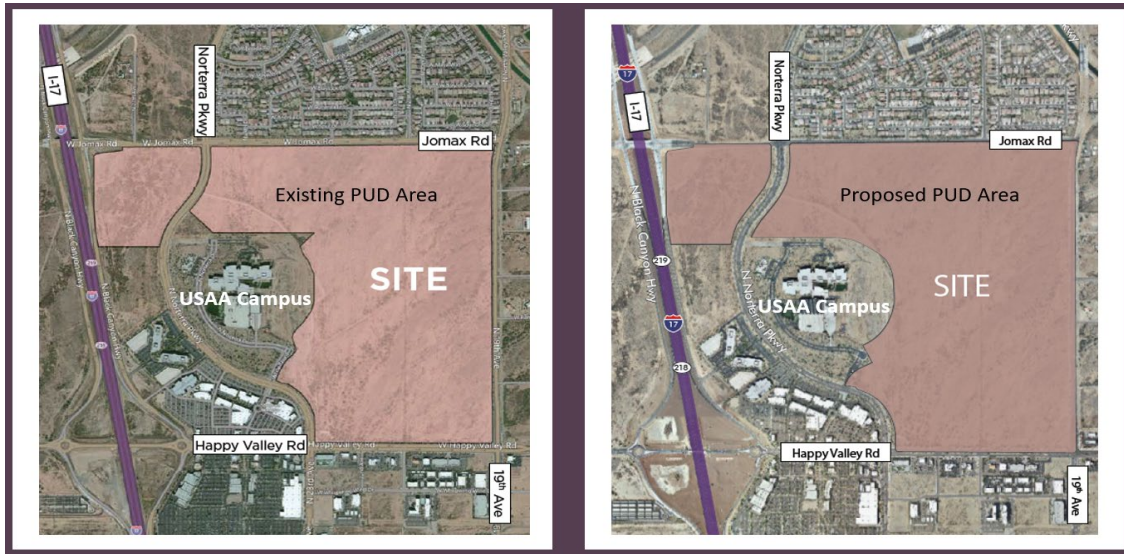
2. There are no other proposed changes to the PUD other than the increase in land area. The addition of this acreage will not change the maximum number of dwelling units that can be developed within the PUD. The application only allows this new acreage to be developed under the zoning entitlements for the Norterra PUD. The majority of the land proposed to be included with this request is within Zone 5. Zone 5 allows for office, multifamily and single-family residential. A small portion is located within Zone 4. Zone 4 allows neighborhood residential.

3. The General Plan Land Use Map designation for the additional land area is Commerce/ Business Park. The proposal is consistent with this designation, as the expansion area allows commerce park uses in Zone 5. Other permitted uses, such as residential uses, would be protected through the existing PUD development standards.



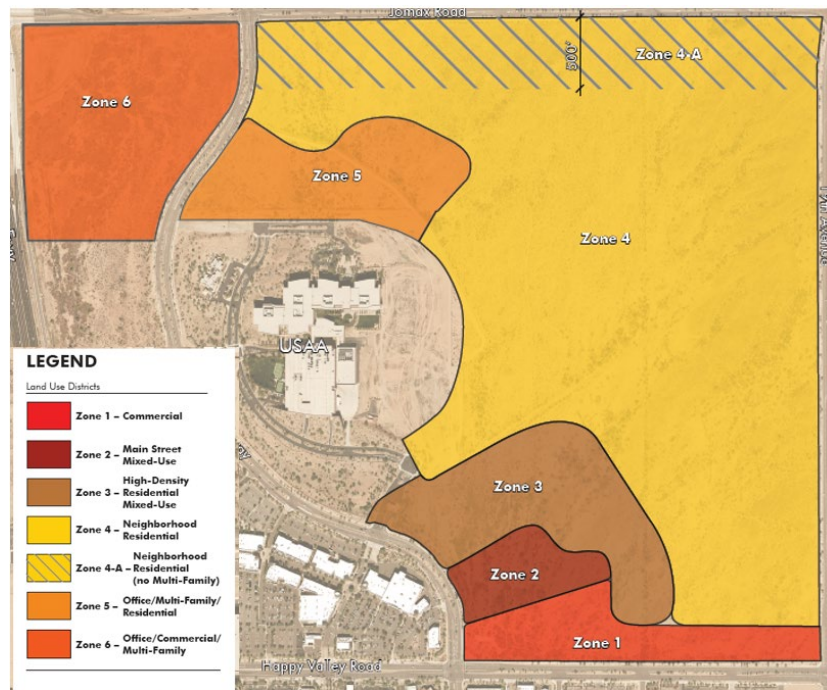
Source: City of Phoenix Planning and Development Department

4. The expansion area includes a small strip of land to the north and northeast of the USAA Corporate Campus site, just north and east of the USAA Campus loop road. The expansion area has limited development opportunity in its current configuration.



Source: LRK Planning and Design

- The proposed addition area will expand Zone 5 and a small portion of Zone 4. The Zone 5 Land Use District allows office, multifamily and single-family residential. The Zone 4 Land Use District allows multifamily and single-family residential. The proposed additional land area will not increase the unit count in either zone.



Source: LRK Planning and Design

- The PUD also incorporates changes made through three minor amendments approved on May 5, 2016, April 6, 2017 and September 10, 2018. The May 5, 2016 amendment included changes to the Development Standards Table after an issue was identified with how the standards applied to various lot shapes and sizes. The April 6, 2017 amendment included changes to the primary contact for the development team, revised street sections throughout the Narrative, revised the summary chart for planting guidelines, updated the circulation plan and included additional plant listings. The September 10, 2018

amendment included changes to the primary contact for the development team, revised street sections of Main Street and revised sign provisions for residential signage. These minor amendments are further detailed on page 2 of the PUD Narrative.

COMMUNITY INPUT SUMMARY

7. At the time this staff report was written, staff had not received correspondence regarding the request.

INTERDEPARTMENTAL COMMENTS

8. The City of Phoenix Water Services Department has noted the property has existing water and sewer mains that can potentially serve the proposed development. However, there is potential need to up size existing water and sewer infrastructure mains so that any remodels or new buildings will be able to meet domestic and fire code requirements.
9. The Fire Prevention Division of the Fire Department does not anticipate any issues with this request. The site or/and building(s) shall comply with the Phoenix Fire Code. However, the water supply to this site is unknown. Additional water supply may be required to meet the required fire flow per the Phoenix Fire Code.
10. The Public Transit Department has determined that the bus stop pad and bus bay on southbound 21st Avenue should be retained and retention of right-of-way, bus bays, and bus stop pads located on westbound Happy Valley Road west of 19th Avenue is required. Bus bays shall be compliant with City of Phoenix Standard Detail P1256 with attached bus stop pad compliant with City of Phoenix Standard Detail P1261. Bus stop pads and bays shall be placed from each specified intersection according to City of Phoenix Standard Detail P1258.

The developer shall provide clearly defined, accessible pathways, constructed of decorative pavers, stamped or colored concrete, or other pavement treatment that visually contrasts with the adjacent parking and drive aisle surfaces. This is addressed in Stipulation Nos. 2 and 3.

11. The site has not been identified as being archaeologically sensitive. However, in the event archaeological materials are encountered during construction, all ground disturbing activities must cease within 33-feet of the discovery and the City of Phoenix Archaeology Office must be notified immediately and allowed time to properly assess the materials. This is addressed in Stipulation No. 4.

OTHER

12. Stipulations not otherwise addressed in the staff report were formulated to address formatting and technical corrections within the Norterra PUD Development Narrative hearing draft date stamped November 18, 2019. Changes include updating the acreage of the overall PUD area and the

expansion area, updating the General Plan Land Use Map exhibit to reflect the correct designations, and updating the Zoning Map exhibit to show the zoning prior to the Norterra PUD.

13. Development and use of the site is subject to all applicable codes and ordinances. Zoning approval does not negate other ordinance requirements. Other formal actions such as, but not limited to, zoning adjustments and abandonments may be required.

Findings

1. The proposal would increase the land area within the PUD boundary from 397.86 acres to 407.90, but does not modify any of the adopted development standards.
2. The proposal would allow for additional development north of Norterra Drive along the northern most portion of the USAA Main Campus loop road that is consistent and compatible with development in the area.
3. The proposal will permit the development of an irregularly shaped vacant parcel abutting Norterra Drive.

Stipulations

1. An updated Development Narrative for the Norterra PUD reflecting the changes approved through this request shall be submitted to the Planning and Development Department within 30 days of City Council approval of this request. The updated Development Narrative shall be consistent with the Development Narrative date stamped November 18, 2019, as modified by the following stipulations:
 - a) Update overall acreage to be 407.90 gross acres and the expansion area to be 10.04 gross acres.
 - b) Update page 25 to show the existing General Plan Land Use Map designations.
 - c) Update the Zoning Map exhibit on page 29 to replace the subtitle "current" with "prior to Norterra PUD".
2. The Public Transit Department shall require retention of right-of-way and the bus stop pad along southbound 21st Avenue and westbound Happy Valley Road. Any relocation or modifications shall require approval by the Public Transit Department.

3. The developer shall provide clearly defined, accessible pathways, constructed of decorative pavers, stamped or colored concrete, or other decorative pavement that visually contrasts with the adjacent parking and drive aisle surfaces. There shall be a pedestrian pathway to connect all building entrances and exits to/from the existing bus stop pads and public sidewalks, utilizing the minimum possible distance and providing the most direct route, as approved by the Planning and Development Department.

4. In the event archaeological materials are encountered during construction, the developer shall immediately cease all ground-disturbing activities within a 33-foot radius of the discovery, notify the City Archaeologist, and allow time for the Archaeology Office to properly assess the materials.

Writer

David Simmons

01/03/2020

Team Leader

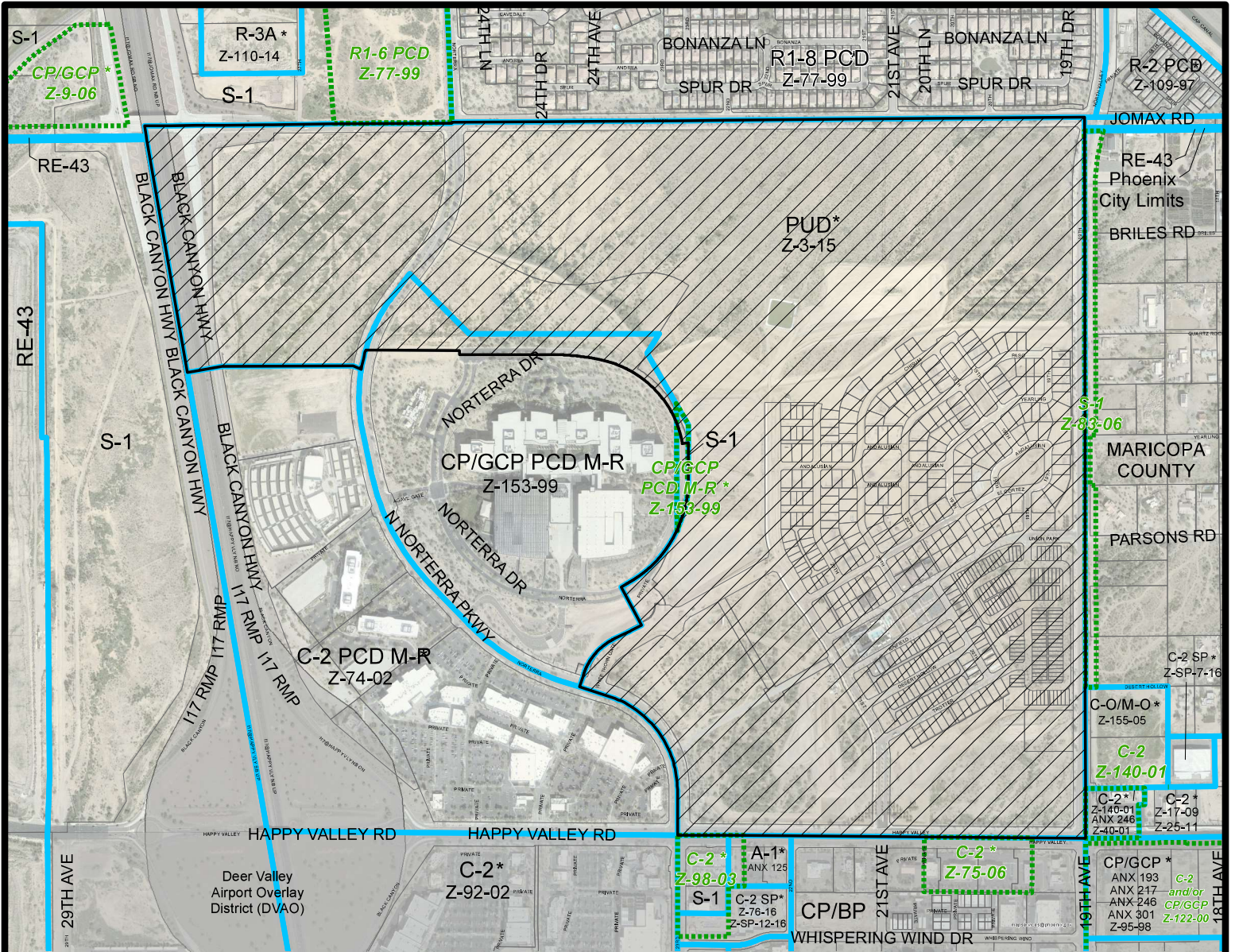
Samantha Keating

Attachments

Sketch Map

Aerial Map

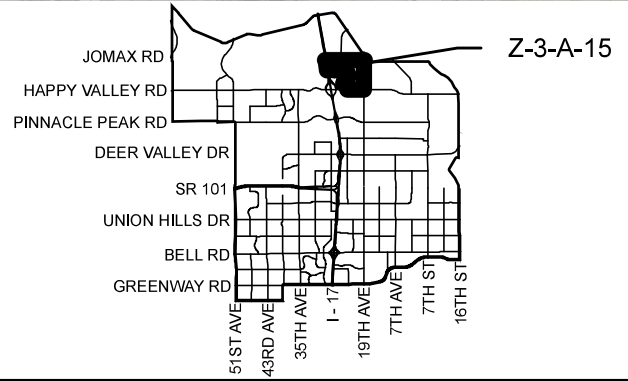
[Norterra PUD Development Narrative date stamped November 18, 2019](#)



Miles

0.15 0.075 0 0.15

DEER VALLEY VILLAGE
CITY COUNCIL DISTRICT: 1



APPLICANT'S NAME: **US RELP Norterra East I, LLC**

APPLICATION NO. **Z-3-A-15**

DATE: **9/30/2019**
REVISION DATES:

11/4/2019

AERIAL PHOTO & QUARTER SEC. NO. **48-23, 48-24, 47-23, 47-24**
ZONING MAP **O-7, P-7**

REQUESTED CHANGE:

FROM: **PUD (397.86 a.c.)
CP/GCP PCD M-R (9.77 a.c.)
S-1 (Approved CP/GCP PCD M-R) (0.27 a.c.)**

TO: **PUD (407.90 a.c.)**

GROSS AREA INCLUDING 1/2 STREET AND ALLEY DEDICATION IS APPROX.

407.90 Acres

MULTIPLES PERMITTED

PUD, CP/GCP PCD M-R, S-1 (Approved CP/GCP PCD M-R)
PUD

CONVENTIONAL OPTION

2200, N/A, 0 (N/A)
2200

*** UNITS P.R.D. OPTION**

N/A, N/A, N/A (N/A)
N/A

* Maximum Units Allowed with P.R.D. Bonus



N O R T E R R A

Norterra Planned Unit Development
Northwest Corner of 19th Avenue and Happy Valley Road

Development Narrative
Rezoning Case Number: Z-3-A-15-1

Original Submittal: January 2015
Final Submittal: July 31, 2015
Minor Amendment #1: May 5, 2016
Minor Amendment #2: April 6, 2017
Minor Amendment #3: September 10, 2018
Major Amendment #1: November 15, 2019

CITY OF PHOENIX
NOV 18 2019
Planning & Development
Department

PUD MINOR AMENDMENTS

Minor Amendment #1: May 5, 2016

1. Development Standards Table; Section G, Page 31

These changes were proposed to the Development Standards Table after an issue was identified which in some cases have unusual shapes and to help correct the original intent of the small, medium and larger lots.

Minor Amendment #2: April 6, 2017

1. Updated primary contact

Staffing changes occurred and the primary point of contact needed to be updated.

2. Revised street sections throughout the Narrative to reflect the Master Street Plans

As the project progressed, it became necessary to update street sections to more accurately reflect the master street plans that were proposed for the latest design of the development and so that they were all consistent with what was being proposed.

3. Revised Summary Chart for Planting Guidelines regarding tree sizes and to clarify landscape requirements within common areas

The planting guidelines was updated to ensure consistency regarding the tree caliper sizes and to ensure the common areas were to be planted adequately.

4. Updated Circulation Plan

The Circulation Plan was updated to more accurately reflect the latest design of the development that was being proposed and to state that what was proposed, was conceptual in nature.

5. Additional plant listings

An additional plant list was added to reflect the full list of allowable plants within the development.

Minor Amendment #3: September 10, 2018

1. Updated primary contact

Staffing changes occurred and the primary point of contact needed to be updated.

2. Revised street sections of Main Street - Commercial section

The Main Street Commercial street section was updated to more accurately reflect the current plan that was being proposed for the development.

3. Revised sign provisions for residential signage

The residential sign provisions were updated to reflect the types of uses that were reflected in the plan.

PUD MAJOR AMENDMENTS

Major Amendment #1: November 15, 2019

Overview

In 2015, USAA Real Estate Company rezoned 397 acres of the USAA Corporate Campus to allow residential, commercial and office uses under the Norterra PUD (“PUD”), in the area bounded by 19th Avenue, Norterra Parkway/I-17, Happy Valley Road, and Jomax Road. The Norterra PUD was approved for this mix of uses, including a maximum of 2,200 residential dwelling units within the PUD. After platting and starting construction on certain areas of the PUD, the Applicant determined 7.98 acres of excess land just north of White Thorn, the USAA Campus loop road, were not included in the Norterra PUD in 2015 but should have been. Given the alignment of White Thorn north of the USAA Campus, this land is best suited to be developed as part of the Norterra PUD.

The Applicant filed a major amendment to the Norterra PUD with the City of Phoenix to include this 7.98 acres in the PUD. The addition of this acreage will not change the maximum number of dwelling units that can be developed within the PUD. The application only allows this new acreage to be developed under the zoning entitlements for the Norterra PUD; it is a simple clean-up of the zoning on this 7.98 acres to provide consistency between the Norterra PUD and the proposed land plan.

List of Revised Pages

Page 7:	A.2. - Project Overview and Goals
Page 8:	Exhibit 1 - Aerial Map
Page 9:	Exhibit 2 - Area Vicinity Map
Page 10:	Exhibit 3 - Parcel Map
Pages 11-15:	Exhibit 4 - Legal Description
Page 27:	Exhibit 8 - Zoning Map: Existed & Proposed
Page 18:	B. - Land Use Plan
Page 20:	Exhibit 6 - Conceptual Land Use Plan
Page 21:	C. - Site Conditions and Location; Acreage
Page 23:	Exhibit 7 - General Plan Map: Current & Proposed
Page 27:	Exhibit 8 - Zoning Map: Existed & Proposed
Page 29:	Land Use Table
Page 35:	Exhibit 9 - Conceptual Landscape Plan
Page 36:	Exhibit 10 - Conceptual Circulation Plan
Page 53:	Exhibit 11 - Phasing Plan
Pages 68-79:	Exhibit 13 - Legal Description

PRINCIPALS AND DEVELOPMENT TEAM

PROPERTY DEVELOPER:



Bruce Petersen
USAA Real Estate Company
9830 Colonnade Blvd., Ste 600
San Antonio, TX 78230
PHONE: 210.641.8409
EMAIL: bruce.petersen@usrealco.com

APPLICANT/REPRESENTATIVE:



Jason Morris
Withey Morris, PLC
2525 East Arizona Biltmore Circle
Suite A-212
Phoenix, AZ 85016
PHONE: 602.230.0600
EMAIL: jason@witheymorris.com

PLANNING & DESIGN:



Michael Kimmey
Looney Ricks Kiss (LRK)
150 S. Independence Mall West
Philadelphia, PA 19106
PHONE: 267.804.7040
EMAIL: mkimmey@lrk.com

CIVIL ENGINEER:



Jim Campbell
Wood Patel
2051 W. Northern Avenue, Suite 100
Phoenix, AZ 85021
PHONE: 602.335.8500
EMAIL: JCampbell@WoodPatel.com

TRAFFIC ENGINEER:



Chuck Wright
Kimley Horn
7740 N 16th St #300, Phoenix, AZ 85020
PHONE: 602.944.5500
EMAIL: chuck.wright@kimley-horn.com

TABLE OF CONTENTS

A.	Purpose and Intent	9
B.	Land Use Plan.	20
C.	Site Conditions and Location.	23
D.	General Plan Conformance	24
E.	Zoning and Land Use Compatibility	27
F.	List of Uses	30
G.	Development Standards	32
H.	Design Guidelines	44
I.	Signs	51
J.	Sustainability	52
K.	Infrastructure	53
L.	Phasing Plan	54

LIST OF EXHIBITS

1.	Aerial Map	10
2.	Area Vicinity Map	11
3.	Parcel Map	12
4.	Legal Description	13-17
5.	Illustrative Plan	19
6.	Conceptual Land Use Plan.	22
7.	General Plan Map: Existing & Proposed	25
8.	Zoning Map: Existing & Proposed	29
9.	Conceptual Landscape Plan	37
10.	Conceptual Circulation Plan	38
11.	Phasing Plan	55
12.	Comparative Zoning Standards Table	56
13.	Individual Zone Legal Descriptions	57-84
	Appendix A	86-88
	Appendix B.	89-90

A. PURPOSE AND INTENT

1. Planned Unit Development

A Planned Unit Development (PUD) is intended to be a stand-alone document of zoning regulations for a particular project. Provisions not specifically regulated by the PUD are governed by the Zoning Ordinance of the City of Phoenix (Phoenix Zoning Ordinance). If there are conflicts between specific provisions of this PUD, and the Phoenix Zoning Ordinance or design guidelines, the terms of this PUD shall apply. The PUD only modifies Phoenix Zoning Ordinance regulations and does not modify other City Codes or requirements. The purpose and intent statements are not requirements that will be enforced by the City.

2. Project Overview and Goals

The Norterra Planned Unit Development (Norterra PUD) rezones approximately 405.37-acres of vacant land located at the northwest corner of 19th Avenue and Happy Valley Road. See Aerial Map (Exhibit 1, page 8), Area Vicinity Map (Exhibit 2, page 9), Parcel Map (Exhibit 3, page 10) and Legal Description (Exhibit 4, pages 11-15). The applicant proposes a mixed-use development consisting of employment, commercial, hotel, multi-family residential and single family residential uses.

The Norterra PUD will create a sense of place and community for its residents, USAA employees, and visitors to the retail shops, offices, and community. It will be designed in a pedestrian-friendly manner that links the residential community together with the existing office and commercial uses nearby. The mixed-use development will help support the residential needs of the existing and future employees at USAA, as well as the larger community in the Deer Valley Village. The residential portion of the project takes into consideration the varying income levels of the USAA employees in an effort to provide nearby housing options that will help reduce commute times and traffic congestion that would otherwise occur without nearby viable residential opportunities in close proximity to the growing USAA campus.

The goals and objectives of the Norterra PUD are:

Master plan and create a community complementary to existing development.

Reserve area for USAA future growth.

Enhance the value of the USAA Campus and the Shops at Norterra.

Enhance employment attractiveness with a nearby, affordable, and quality living environment.

Incorporate land use and design principles that create a unique and compelling place to live, work and shop.

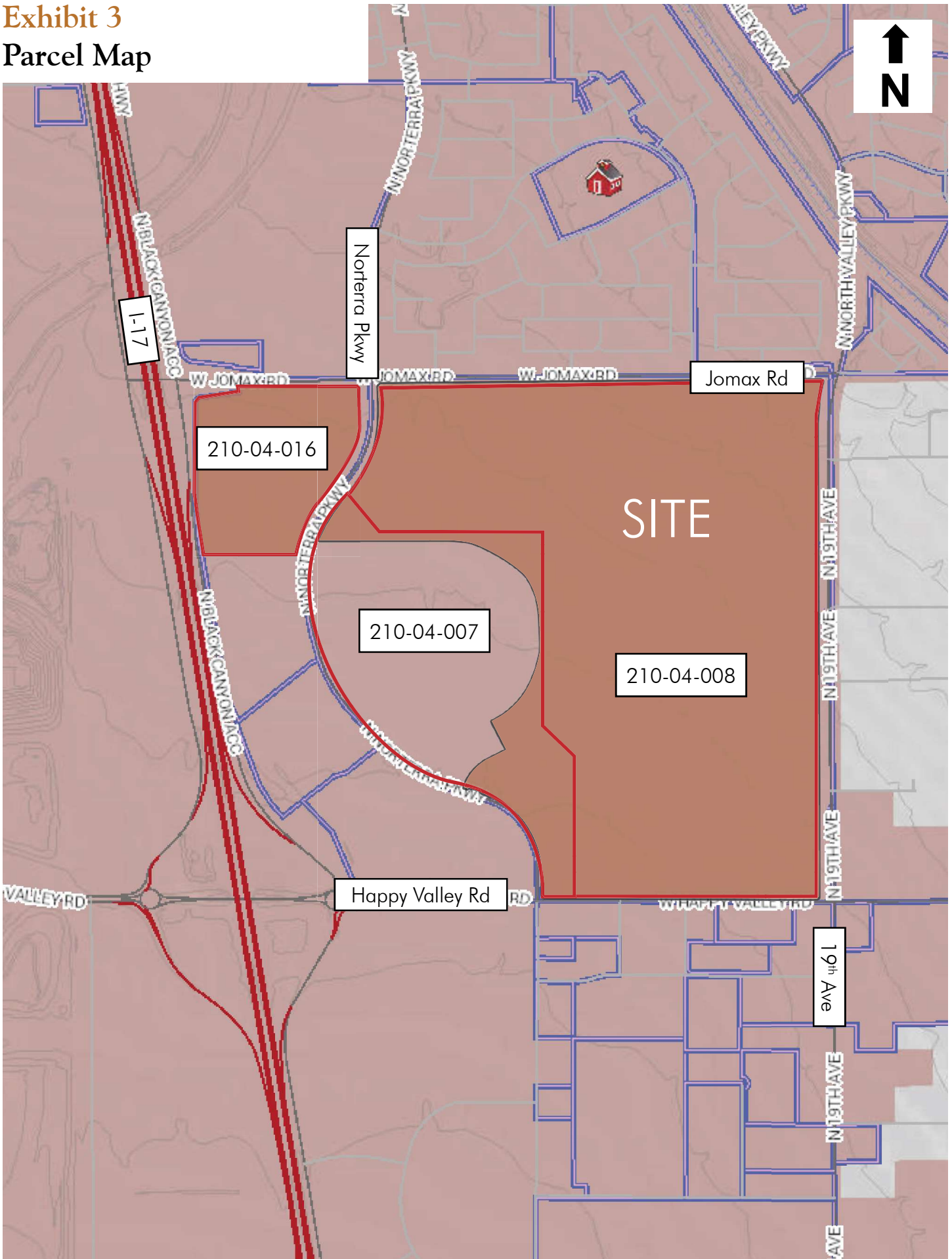
Exhibit 1 Aerial Map



Exhibit 2
Area Vicinity Map



Exhibit 3
Parcel Map



Wood, Patel & Associates, Inc.
(602) 335-8500
www.woodpatel.com

Revised August 7, 2019
Revised July 22, 2015
Revised March 27, 2015
March 20, 2015
WP# 154308
Page 1 of 4
See Exhibit "A"

PARCEL DESCRIPTION
USAA Norterra
Rezone Parcel Gross Acreage

A portion of Section 1 and Section 2, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

BEGINNING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said Section 1, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet;

THENCE along the south line of said Section 1, North 89°37'02" West, a distance of 2674.52 feet, to said south quarter corner and the monument line of Norterra Parkway, USAA Amended, recorded in Book 691, page 26, Maricopa County Records (M.C.R.);

THENCE leaving said south line, along said monument line, North 00°29'52" West, a distance of 300.04 feet, to the beginning of a curve;

THENCE northwesterly along said curve to the left, having a radius of 645.00 feet, concave southwesterly, through a central angle of 72°05'42", a distance of 811.60 feet, to curves end;

THENCE North 72°35'34" West, a distance of 206.86 feet;

THENCE leaving said monument line, North 17°24'26" East, a distance of 77.00 feet, to the easterly right-of-way line of said Norterra Parkway;

THENCE leaving said easterly right-of-way line, North 17°30'02" East, a distance of 9.67 feet, to the beginning of a curve;

THENCE northeasterly along said curve to the right, having a radius of 400.00 feet, concave southeasterly, through a central angle of 46°06'04", a distance of 321.85 feet, to the curves end;

THENCE North 63°36'06" East, a distance of 195.44 feet;

THENCE North 27°39'03" West, a distance of 284.62 feet;

THENCE North 62°20'57" East, a distance of 39.69 feet, to the beginning of a curve;

THENCE northeasterly along said curve to the left, having a radius of 740.00 feet, concave northwesterly, through a central angle of 39°16'33", a distance of 507.26 feet, to the beginning of a compound curve;

THENCE northerly along said compound curve to the left, having a radius of 990.69 feet, concave westerly, through a central angle of 13°56'20", a distance of 241.01 feet, to the easterly line of Lot 1, said USAA Amended, and a point of intersection with a non-tangent line;

Exhibit 4

Legal Description

Parcel Description
USAA Norterra
Rezone Parcel Gross Acreage

Revised August 7, 2019
Revised July 22, 2015
Revised March 27, 2015
March 20, 2015
WP# 154308
Page 2 of 4
See Exhibit "A"

THENCE along said easterly line, North 00°00'00" East, a distance of 327.93 feet, to the westerly line, USAA Norterra Master Plan Parcel 1, described in Document 2017-0324971, M.C.R., and the beginning of a non-tangent curve;

THENCE leaving said easterly line, northerly, along said westerly line, and along said non-tangent curve to the left, having a radius of 1010.83 feet, concave westerly, whose radius bears South 80°29'16" West, through a central angle of 0°03'05", a distance of 0.90 feet, to the intersection of a non-tangent curve;

THENCE northerly along said non-tangent curve to the left, having a radius of 1227.50 feet, concave westerly, whose radius bears South 77°46'50" West, through a central angle of 04°29'32", a distance of 96.24 feet, to a point of intersection with a non-tangent line;

THENCE leaving said westerly line, North 20°35'40" West, a distance of 38.54 feet, to the beginning of a curve;

THENCE northwesterly along said curve to the left, having a radius of 701.70 feet, concave southwesterly, through a central angle of 14°34'09", a distance of 178.43 feet, to said westerly line;

THENCE along said westerly line, northwesterly along said curve to the left, having a radius of 701.70 feet, concave southerly, through a central angle of 23°27'03", a distance of 287.20 feet, to a point of intersection with a non-tangent line;

THENCE leaving said westerly line, North 61°21'58" West, a distance of 58.09 feet;

THENCE North 65°05'57" West, a distance of 32.22 feet;

THENCE North 66°54'56" West, a distance of 63.80 feet;

THENCE North 73°59'30" West, a distance of 283.47 feet;

THENCE North 89°59'46" West, a distance of 1362.15 feet, to said monument line of Norterra Parkway, and a point of intersection with a non-tangent curve;

THENCE along said monument line, southerly along said non-tangent curve to the left, having a radius of 1100.00 feet, whose radius bears South 72°25'36" East, through a central angle of 07°28'12", a distance of 143.41 feet, to a point of intersection with a non-tangent line;

THENCE leaving said monument line, North 79°53'48" West, a distance of 55.00 feet, to the southeast corner of Lot 4, USAA Unit 1, recorded in Book 900, page 40, M.C.R.;

THENCE along the southerly line of said Lot 4, North 90°00'00" West, a distance of 865.48 feet, to the southwest corner of said Lot 4;

THENCE leaving said southerly line, South 80°00'27" West, a distance of 25.00 feet, to a line parallel with and 25 feet westerly of the west line of said Lot 4;

THENCE along said parallel line, North 09°59'33" West, a distance of 239.89 feet;

THENCE North 03°20'16" West, a distance of 360.07 feet;

THENCE North 00°00'22" East, a distance of 813.73 feet;

THENCE North 41°11'36" East, a distance of 60.13 feet;

THENCE North 82°12'31" East, a distance of 366.73 feet;

THENCE North 00°43'06" West, a distance of 84.05 feet, to the north line of said Section 1;

THENCE leaving said parallel line, along said north line, North 89°16'54" East, a distance of 214.28 feet, to the southwest corner of Section 36, Township 5 North, Range 2 East;

THENCE along the south line of said Section 36, also being the north line of said Section 1, North 89°26'46" East, a distance of 2653.24 feet, to the south quarter corner of said Section 36;

Exhibit 4 Legal Description

Parcel Description
USAA Norterra
Rezone Parcel Gross Acreage

Revised August 7, 2019
Revised July 22, 2015
Revised March 27, 2015
March 20, 2015
WP# 154308
Page 3 of 4
See Exhibit "A"

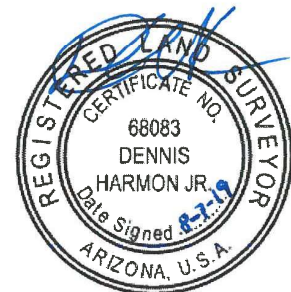
THENCE continuing along the south line of said Section 36 and said north line of said Section 1, North 89°25'44" East, a distance of 2470.22 feet, to the northeast corner of said Section 1;
THENCE leaving said south line of Section 36 and said north line of Section 1, along the east line of said Section 1, South 00°14'41" East, a distance of 2081.96 feet, to the east quarter corner of said Section 1;
THENCE continuing along said east line, South 00°13'09" East, a distance of 2644.80 feet, to the **POINT OF BEGINNING**.

Containing 17,658,218 square feet or 405.3769 acres, more or less.

Subject to existing right-of-ways and easements.

This parcel description is based on said USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of January, 2012. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

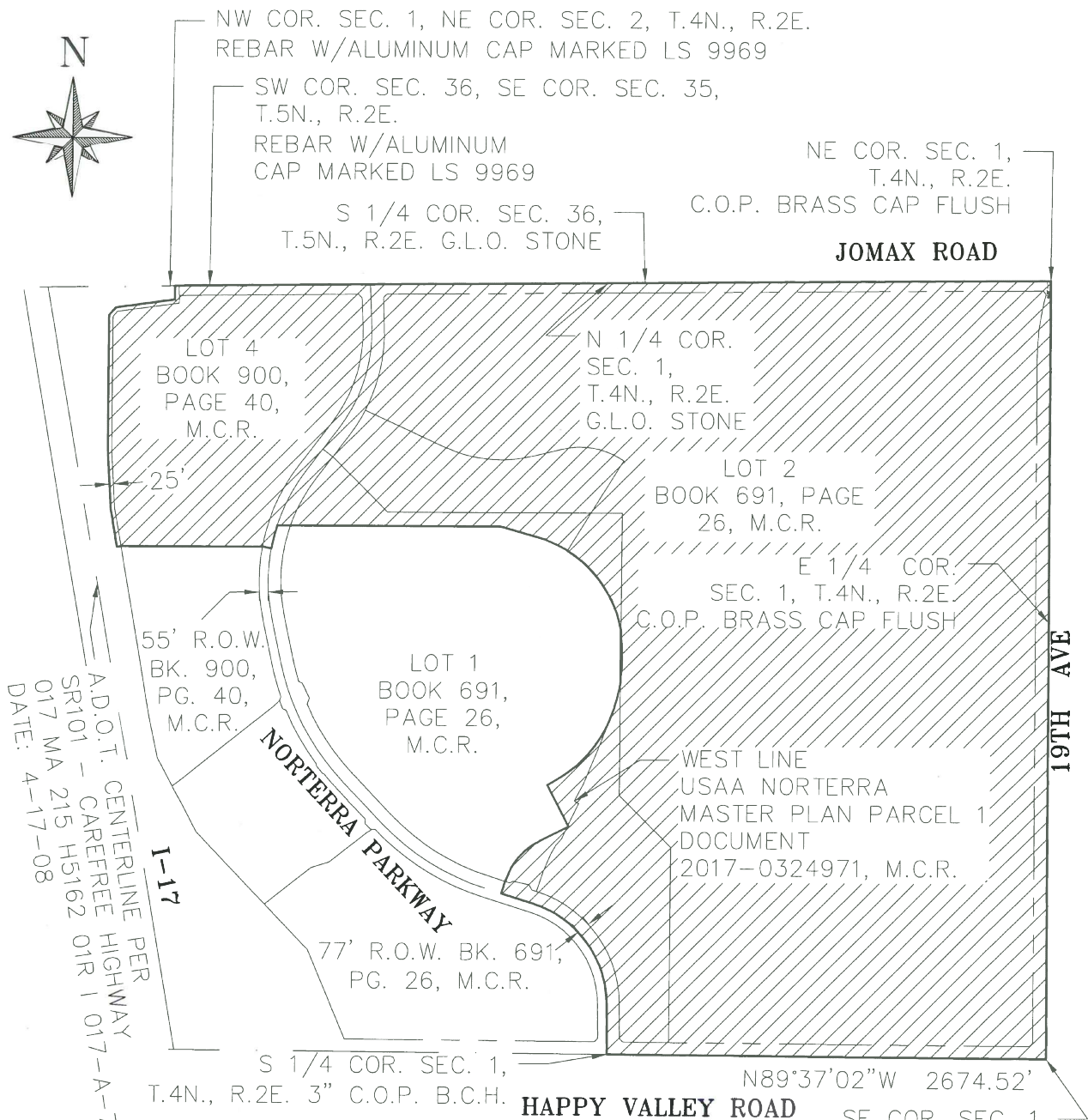
Y:\WP\Parcel Descriptions\2015 Parcel Descriptions\154308 USAA Norterra Rezone Parcel Gross Acreage L02R03 08-07-19.doc



EXPIRES 03-31-22

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Exhibit 4 Legal Description



A.D.O.T. CENTERLINE PER
SR101 - CAREFREE HIGHWAY
017 MA 215 H5162 01R 1 017-A-702
DATE: 4-17-08

**WOOD
PATEL**

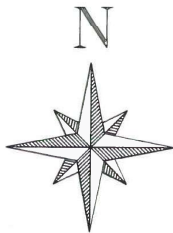


EXHIBIT "A"
USAA NORTERRA
REZONE PARCEL GROSS ACREAGE
08/07/2019
WP#154308
PAGE 4 OF 4
NOT TO SCALE

EXPIRES 03-31-22

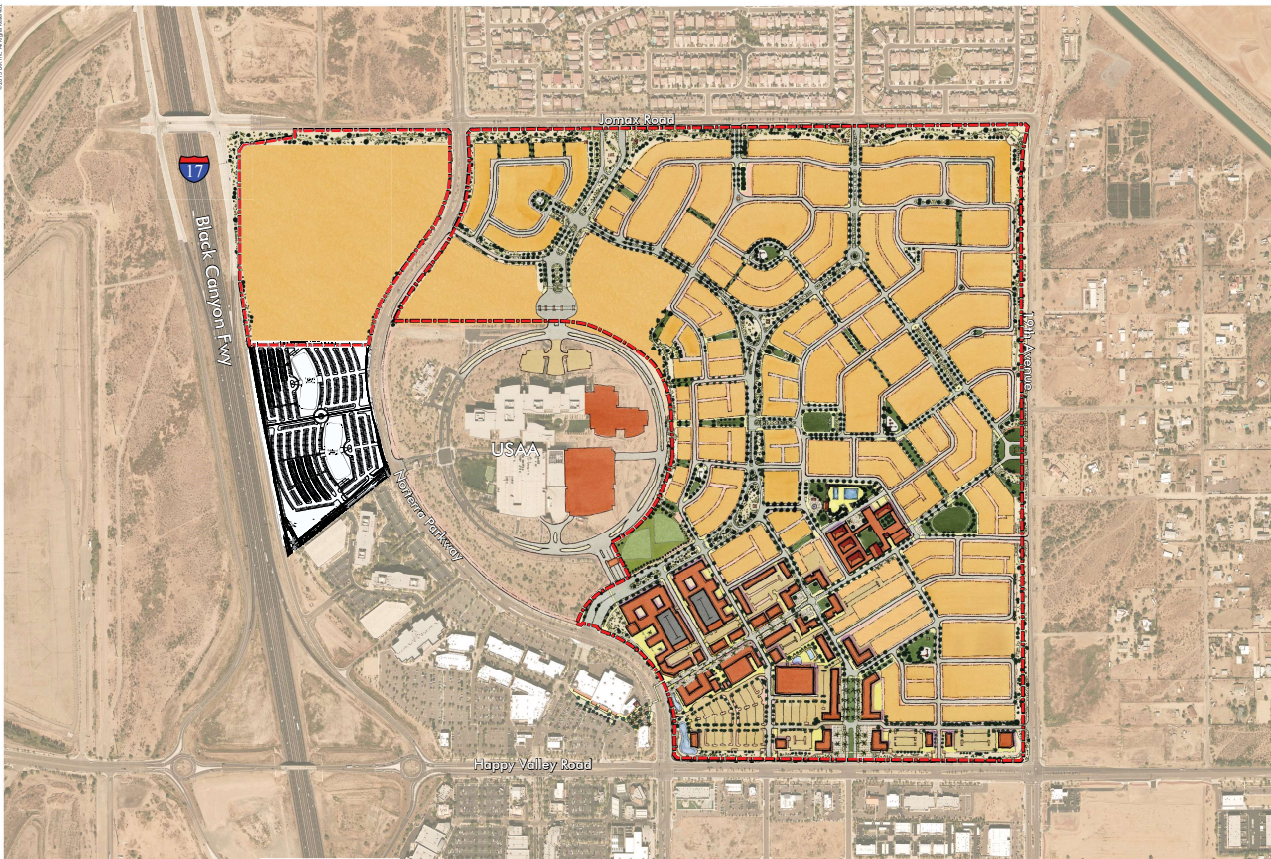
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3. Overall Design Concept

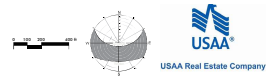
The proposed Norterra PUD consists of a mix of single-family residential homes, multi-family residential units, live-work units, significant additional office and retail space, and a hotel (see Exhibit 5: Illustrative Plan, page 17). It will be designed in a pedestrian-friendly manner with careful consideration given to landscaped streetscapes, a focus on traditional home design with a variety of offerings, including some with garages in the back and front porches that look out on street fronts. The plan includes pocket parks within each smaller residential area that are connected by trails, and a larger community park that will offer sports fields and other recreational opportunities for residents and USAA employees. A community center is also planned.

The mixed-use project will provide a number of common design elements including thematic streetscape, building materials, and colors. It will offer pedestrian linkages and outdoor spaces with careful attention to landscaping throughout the site. The project will compliment the surrounding area developments with regard to use, design, and setting. The plan will promote flexibility in uses and design while providing consistent development regulations to guide development of the individual parcels and tracts of land within the PUD.

Exhibit 5
Illustrative Plan



ILLUSTRATIVE PLAN
NORTERRA
Phoenix, AZ
Revised 6/20/19
Updated July 22, 2019



Artist depiction for illustrative purposes only. The location, configuration, and pattern of developed areas, open space and other features is preliminary and subject to change.

B. LAND USE PLAN

The approximately 405.37-acre site proposes a mixed-use development consisting of employment, commercial, hotel, multi-family residential and single family residential uses. The land use plan will promote flexibility and appealing design while providing consistent development regulations to guide the build-out of the individual parcels and tracts of land within the Norterra PUD.

The intent of the land use plan is to create neighborhoods that integrate and complement and enhance the existing USAA campus and the 385,000-square foot Shops at Norterra mixing of uses creates synergies between office, retail, hotel, and residential tenants/owners. Close proximity of residential, commercial and civic uses create a pedestrian friendly community and limits vehicle trips. The Conceptual Land Use Plan (Exhibit 6, page 20) conceptually proposes the following new and approximate improvements:

- 2,200 Maximum Dwelling Units
- 1,000-1,200 single family lots,
- 800-900 multi-family rental units,
- 20-30 for sale live-work units,
- 50-70 loft units above retail,
- 200,000-300,000-square feet retail space,
- 500,000-750,000-square feet of new office, and
- +/- 150 room hotel.

Primary access will be from a prominent new entrance at Happy Valley Road and Norterra Parkway leading to a “Main Street” boulevard which highlights the mixed-use components of the development. The community is designed around a main street, mixed-use core that will offer retail on the first floor and multi-family residential and/or office uses on upper floors. This “Town Center” will add vibrancy as the hub of neighborhood activity and the “Main Street” has been carefully designed to frame scenic views of the surrounding Union Hills and desert preserve from its entrance looking northeast.

A variety of amenities and frequent activities are designed to create a close sense of community and bring residents together. As stated above, amenities will include a community center, pocket parks within the residential tract areas, an inter-connected pedestrian trail system, and a larger community park that will offer sports fields and other recreational opportunities for residents and USAA employees. See Conceptual Land Use Plan (Exhibit 6, page 20).

Building Type Categories

There are several different building types within this PUD. Within specific land use districts, called Zones, different building types are permitted.

Commercial Buildings: Buildings with commercial, retail and general business uses, as listed in the C-2 district of the Phoenix Zoning Ordinance.

Office Buildings: Buildings with business and professional office uses, as listed in the C-O and CP/GCP districts of the Phoenix Zoning Ordinance.

Mixed-Use Buildings: Multi-story buildings, typically commercial in character, with more than one use including, but not limited to, commercial, office, and residential uses which may be on one or more floors (vertically mixed-uses). A range of residential dwelling unit density is anticipated not to exceed 50 dwelling units per acre.

Live-Work Buildings: Single- or multi-story buildings, typically residential in character, with a flexible office or business use integrated with one (or more) residential dwellings to commercial uses, such as a house with a home office or townhouse over a retail business space. A range of residential dwelling unit density is anticipated not to exceed 50 dwelling units per acre.

Multi-Family Buildings: Buildings with multiple residential dwelling units. A range of density is anticipated not to exceed 50 dwelling units per acre.

Single-Family Attached Buildings: Multiple residences that share one or more walls with adjoining dwellings but are not vertically stacked. A range of density is anticipated not to exceed 12 dwelling units per acre.

Single-Family Detached Buildings: Individual stand-alone residences. A range of density is anticipated not to exceed eight dwelling units per acre. Condominium ownership regimes are not permitted Single-family Detached buildings.

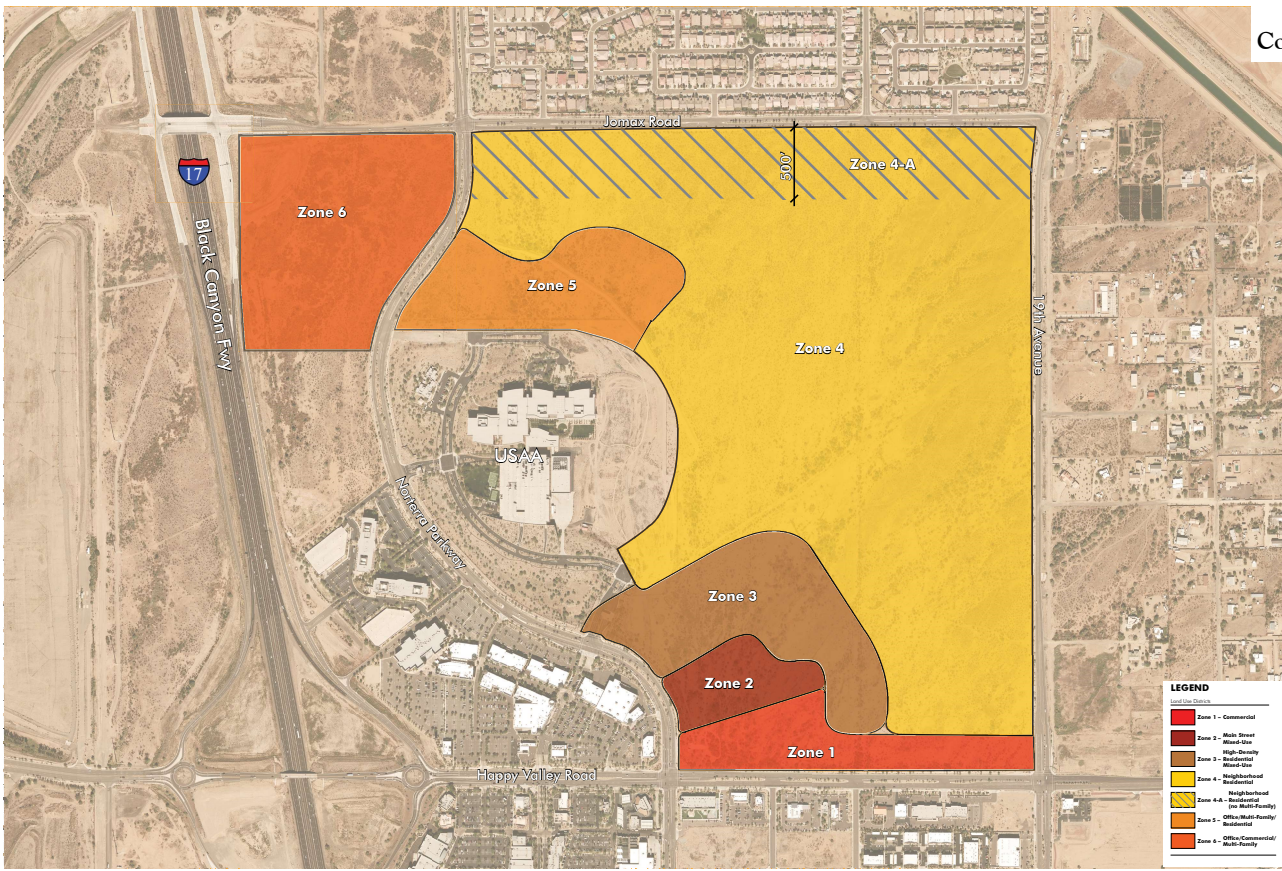
For additional information regarding land uses, see section “F. List of Uses” (page 28). Additionally, approximate acreages for each Zone can be found in the Land Use Table (page 29).

Land Use Relocation

Specific building types are permitted within different Land Use Districts, called Zones, as outlined in the Land Use Table (page 29). Consistent with Section 671.E.1 of the PUD zoning district, a major amendment will be required if a new building type is proposed in a zone in which it is not currently permitted per the Land Use Table (page 29).

The boundaries of each Zone shall be defined as provided in the legal descriptions filed under the Norterra PUD (page 56-83).

Exhibit 6
Conceptual Land Use Plan

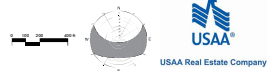


LEGEND
Land Use Districts

Zone 1 - Commercial
Zone 2 - Main Street Mixed-Use
Zone 3 - High-Density Residential Mixed-Use
Zone 4 - Neighborhood Residential
Zone 4-A - Residential (no Multi-Family)
Zone 5 - Office/Commercial/Residential
Zone 6 - Office/Commercial/Multi-Family



**LAND USE DISTRICTS
NORTERRA**
Phoenix, AZ
April 2016
Version 1.0 (0.0)



C. SITE CONDITIONS AND LOCATION

Acreage

The site consists of approximately 405.37-acres. See Legal Description (Exhibit 4, pages 11-14).

Location

The site is at the northwest corner of 19th Avenue and Happy Valley Road and is generally known as the USAA Phoenix Corporate Campus. The site is owned by USAA and a portion is currently zoned for future growth of the USAA campus, which will be accommodated by the proposed Norterra PUD. The most recent +/- 300,000-square foot addition to the +/- 600,000-square foot USAA campus expansion will be complemented by the further development of the site in a thoughtful and attractive manner.

Surrounding Conditions

To the west of the proposed mixed-use development is the USAA Phoenix Corporate Campus which covers approximately 105-acres, and other future areas available for expansion. Further west is Norterra West, a 95-acre office/commercial development that includes 220,000-square feet of existing office and 300,000-square feet of proposed office. Finally, to the southwest is the Shops at Norterra, which offers approximately 75-acres of commercial uses including 345,000-square feet of existing retail, dining and entertainment amenities.

To the south of the subject site is land zoned for commerce park, and commercial uses including the Vestar Development. To the north is residential development zoned R1-8. To the east is a commercial property zoned C-2 and residential properties zoned S-1 and RU-43. A majority of the residential uses to the east have not been annexed in to the City of Phoenix.

Surrounding Conditions	Zoning	Use
North	S-1 (Approved R1-6 and R1-8 PCD), R1-8 PCD, R-3A	Vacant and Residential
East	C-2, S-1 (Approved C-O/M-O and C-2), County RU-43 (A portion of right-of-way is approved S-1)	Vacant, Commercial and Residential
South	S-1 (Approved C-2), A-1 (Approved C-2), CP/BP (Approved C-2), C-2 M-R PCD, CP/GCP M-R PCD	Vacant, Commercial and Office
West	C-2 M-R PCD, CP/GCP M-R PCD, S-1	Commercial, Office and Freeway

Topography

There are no significant topographical or natural features on the site. The site is generally flat, vacant land.

D. GENERAL PLAN CONFORMANCE

The proposed mixed-use development is supported by the following goals, policies and objectives of the General Plan Map (Exhibit 7, page 23).

Growth Area, Goal 1 – “The City should maintain a high quality of life and an economically healthy community.”

- **“Future employment growth within any part of the region will be closely linked to the characteristics and growth of the surrounding residential areas located within a 30 to 45 minute commute.”**

As the General Plan states, future employment growth will be linked more directly to residential growth. High quality developments like the Norterra PUD help the City maintain a high quality of life and economically healthy community. The residential uses proposed by this development will support and grow the surrounding employment opportunities. USAA campus employees will have an option to live closer to work, and the introduction of new residential land uses will provide workforce for the other vacant office land in the immediate area. Not only is the proximity of residential to employment a project benefit, it proposes to significantly reduce the overall vehicle trips since the uses are located and arranged to be walkable or bikable and include amenities that draw people onto sidewalks rather than into their individual vehicles to travel to work. Accommodating increased walking, bicycling, and transit usage can contribute to the city’s economic and social vitality. The mixed-use components of this PUD create a sustainable village concept by offering shop, work, live, and play opportunities all in the same area without a commute and resulting strain on city infrastructure.

Land Use, Goal 2, Employment and Population Balance – “Development of each village’s potential should be encouraged by distributing a diversity of employment and housing in a way that achieves a balanced citywide plan and that is consistent with commute travel patterns and the current character of each developed village.”

- **“Favor development proposals that improve the existing resident/employment balance when those proposals are consistent with other goals and policies in the General Plan.”**

The opportunity for residents to live and work in the same village is a fundamental goal of the urban village model. Achieving this requires a balance of jobs and the resident work force. Currently, there is 950,000-square feet of office existing and/or near completion on the USAA campus. Another 520,000-square feet is planned in the Norterra West office development. The introduction of approximately 2,200 new housing opportunities in the Norterra PUD provides for a better balance of employment and residential diversities in the village and immediate area, and reduces overall vehicle miles traveled by commuters. The project will create a mixed-use development that provides new housing opportunities to area employers along with complementary uses such as retail, hotel, and new office. The mixed-use nature of the development will help balance the jobs to housing ratio and will bring vitality to the Deer Valley Village that does not exist today.














Land Use, Goal 4, Mixed Land Use Development – “Mixed land use patterns should be developed within urban villages and at smaller scales to minimize the number and length of trips.”

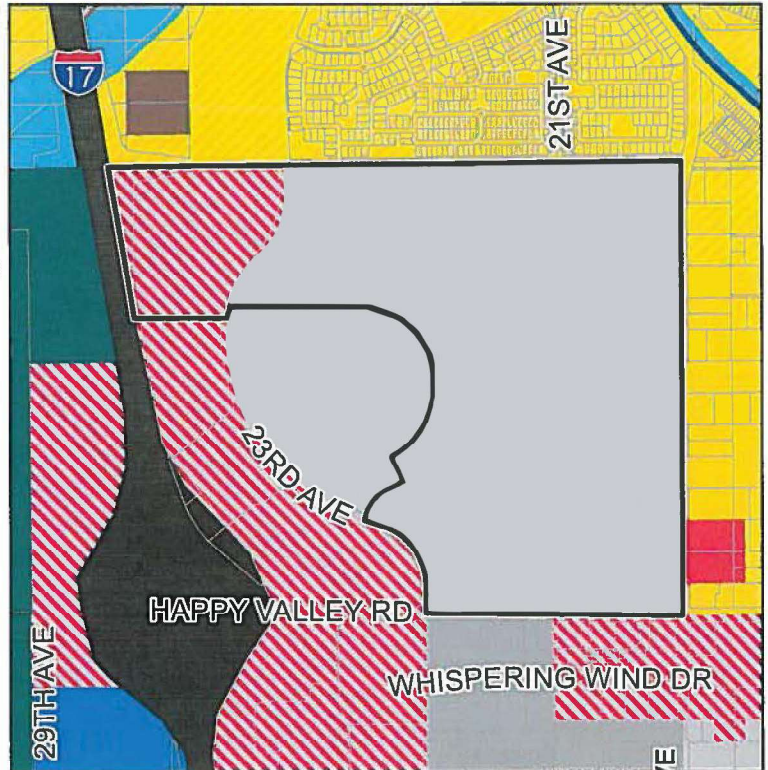
The proposed Norterra PUD allows for a variety of land uses within the project which encourages residents to work and shop in close proximity to where they live, thereby reducing the number and length of trips. Interconnectivity among the existing and proposed land uses is a primary objective of the Norterra PUD and the proposed neighborhood integrates well with the existing USAA campus and the Shops at Norterra. In particular, parks are located near residential uses and retail/restaurants are close to office uses to reduce trips and encourage alternate modes of travel. Uses within this PUD are located and arranged to be walkable or bikable, and

General Plan Map: Current & Proposed

Current



Commerce/Business Park (340.40 +/- Acres)
 Mixed Use (Commerical/Commerce Park) (49.73 +/- Acres)
 Residential 2 to 5 du/acre (7.73 +/- Acres)

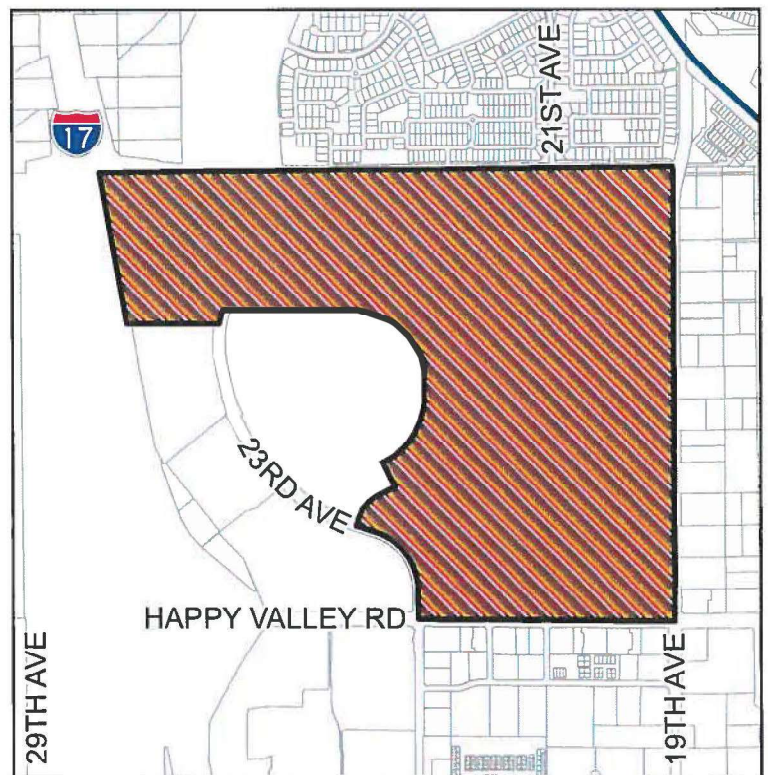
-  Proposed Change Area
-  Residential 2 to 5 du/acre
-  Residential 3.5 to 5 du/acre
-  Residential 15+ du/acre
-  Commercial
-  Mixed Use Residential 15+/Commerce/Business Park
-  Mixed Use (Commercial / Commerce Park)
-  Commerce / Business Park
-  Industrial
-  Parks/Open Space - Publicly Owned
-  Public/Quasi-Public
-  Floodplain
-  Transportation



Proposed

Mixed Use (405.37 +/- Acres)
 (Commercial,
 Commerce Park/Business Park,
 Residential 5-10 du/acre,
 Residential 10-15 du/acre,
 Residential 15 + du/acre)

-  Proposed Change Area
-  Mixed Use
 (Commercial,
 Commerce Park/Business Park,
 Residential 5-10 du/acre,
 Residential 10-15 du/acre,
 Residential 15 + du/acre)



include amenities that draw people onto sidewalks rather than into their individual vehicles to travel to their destination. The “Main Street” component of the project includes multiple types of land uses such as office, retail, hotel, and residential to further encourage pedestrian activity. “Main Street” adds vibrancy and is the hub of neighborhood activity. The development also has access to bus transit along 19th Avenue.

Land Use, Goal 9 – “Diverse Housing Mix: A range of housing choices, densities and prices in each village should be encouraged.”

- **Policy:** Provide residents an opportunity to live and work in the village of their choice by offering a variety of housing, such as apartments, townhouses, single-family detached homes, accessory units, and mobile homes, to respond to changing family size, health or income.

The proposed project will provide a much needed housing opportunity that would allow for a mix of residential options in the Deer Valley Village. The proposed residential land uses include approximately 1,000-1,200 single family lots, 800-900 multi-family rental units, 20-30 for sale live-work units, and 50-70 loft units above retail. The variety of options allow for diverse housing needs which can accommodate a wide range of incomes and lifestyles of USAA employees and the other surrounding employers. Moreover, this mix of housing types will accommodate the changing nature of each household over a period of time, with options to move-up to larger housing and from rental to homeownership – providing opportunities for new employees and residents to cycle through the same pattern.

Circulation, Policy 4 – “Support the land use element goals of balancing housing and employment...and encouraging a mixture of land uses in neighborhoods to reduce the length and number of vehicle trips.”

The Norterra PUD will provide job opportunities that support area employment by providing a good balance of new housing, retail and mixed land uses. Currently, there is 950,000-square feet of office existing and/or near completion on the USAA campus. Another 520,000-square feet is planned in the Norterra West office development. The introduction of approximately 2,200 new housing opportunities in the Norterra PUD provides for a better balance of employment and residential diversities in the village and immediate area, and reduces overall vehicle miles traveled by commuters. The proposed Norterra PUD provides a variety of land uses within the project which encourages residents to work and shop in close proximity to where they live, thereby reducing the number and length of trips. The “Main Street” component of the project includes multiple types of land uses such as office, retail, hotel, and residential to further encourage pedestrian activity.

Neighborhood, Goal 1, New Neighborhood Design – “All neighborhoods should be designed to be safe, well maintained, pedestrian oriented, desirable places to live.”

- **Policy 1:** “Promote neighborhood identity through planning that reinforces the existing landscape and character of the area.”
- **Policy 3:** “Protect the neighborhood’s views of open space, mountains, and man-made or natural landmarks.”
- **Policy 4:** “Ensure that schools, libraries, parks and trails are planned.”
- **Policy 5:** “Locate public gathering places such as parks, open space, community centers and neighborhood retail with convenient access to neighborhoods.”
- **Policy 9:** Design new neighborhoods to promote access to parks and open space. New development should also provide convenient pedestrian access to transit stops, schools, and other neighborhood amenities.

The Norterra PUD is supported by the goals and policies of the Neighborhood Element of the General Plan. The Town Center and Main Street corridor have been carefully designed to frame scenic views of the surrounding Union Hills and desert preserve from its entrance looking northeast. Residential areas will be designed in a pedestrian-friendly manner with careful consideration given to landscaped streetscapes, a focus on traditional home design with a variety of offerings, including some with garages in the back and front porches that look out on street fronts. Public gathering places are conveniently accessed from within the development by pedestrian linkages and vehicular access. The proposal includes a community center, pools, pocket parks, and trail systems all closely integrated within the residential community and connectivity between “Main Street” and the Shops at Norterra. The PUD will integrate elements of the Sonoran Boulevard Development Standards for Happy Valley Road, the Sonoran Desert Preserve guidelines along Happy Valley Road, and integrate with the existing landscaping patterns along Norterra Parkway. Additionally, a multi-use trail system that exists along 19th Avenue south of Happy Valley Road will be extended up to Jomax Road along the perimeter of the development. The variety of amenities and community activities bring residents together thereby creating a safe, well maintained, pedestrian oriented, mixed-use development.

E. ZONING AND LAND USE COMPATIBILITY

The subject area has seen growth over the years including regional shopping centers, industrial and professional complexes, and master planned communities. See Existing and Proposed Zoning Map (Exhibit 8, page 27). The site is owned by USAA and a portion is currently zoned C-2 M-R PCD and CP/GCP M-R PCD for future growth of the USAA campus. The balance of the vacant land is zoned S-1 (Approved CP/GCP PCD).

To the west is the USAA Phoenix corporate campus zoned CP/GCP M-R PCD. The USAA campus covers approximately 105-acres that includes 600,000-square feet of existing office, a 350,000-square foot expansion underway, and other future areas available for expansion.

Further west is Norterra West, a 95-acre office and commercial development that includes 220,000-square feet of occupied existing office and 300,000-square feet of proposed office zoned C-2 M-R PCD. Bordering the northwest corner of this PUD and west of Norterra West is the I-17 freeway.

The Shops at Norterra to the west offer about 75-acres of commercial uses including 345,000-square feet of existing retail which are zoned C-2 M-R PCD.

To the south are inline shops, retail centers and office buildings which are zoned for CP/BP for commerce park, and commercial uses including the Vestar Development zoned C-2.

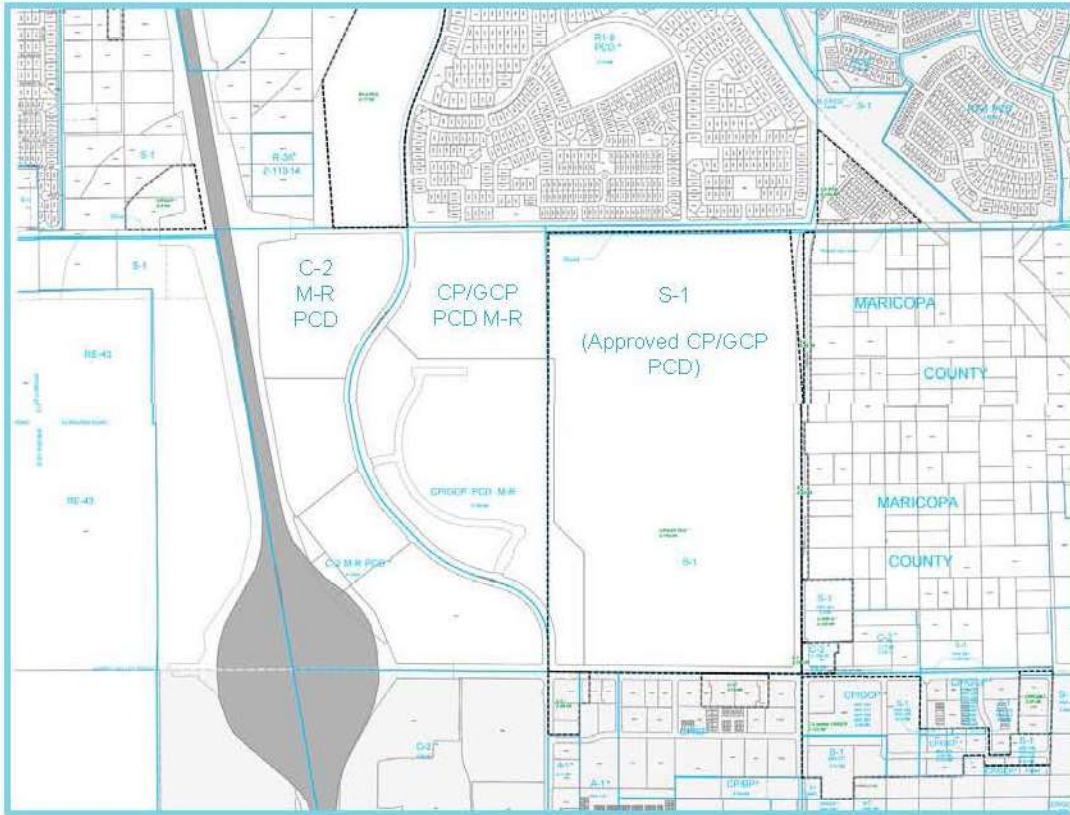
To the north is an existing single-family residential development zoned R1-8 PCD and vacant land zoned R-3A.

To the east are existing single-family residential properties in Maricopa County which are zoned RU-43. Also to the east is vacant land zoned S-1 and a convenience store zoned C-2.

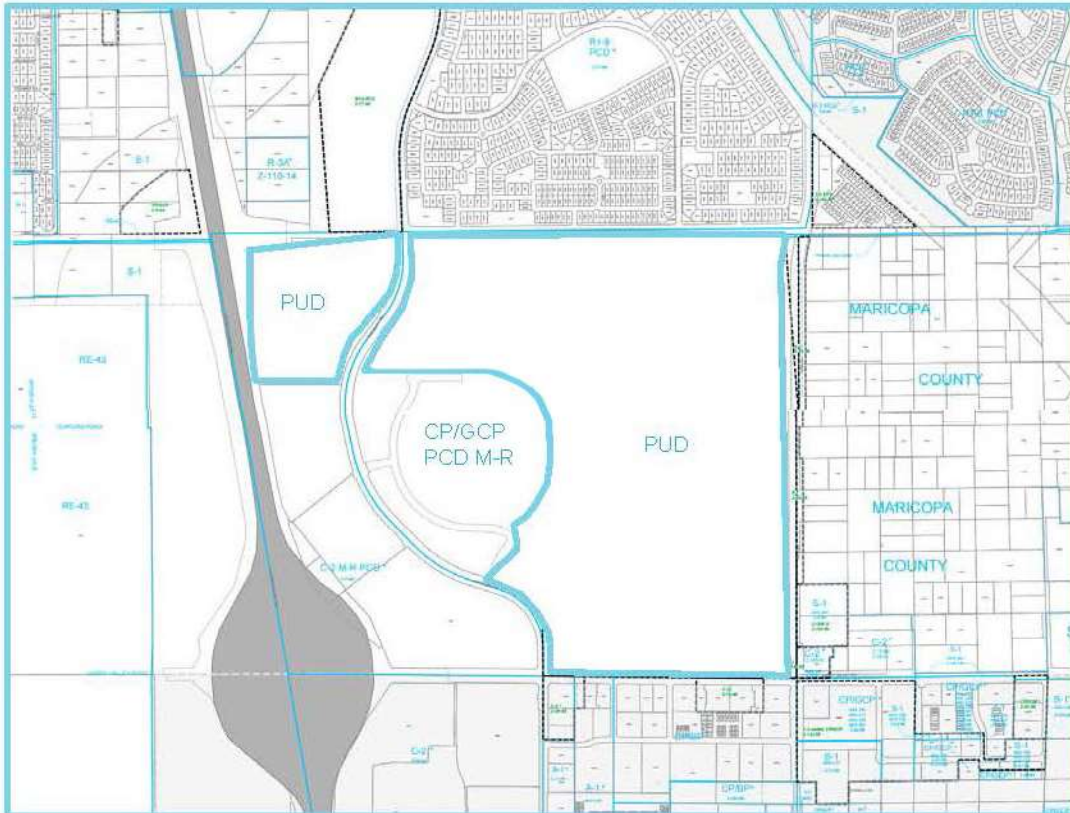
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Zoning Map: Existing & Proposed

Current



Proposed



F. LIST OF USES

a. Permitted Uses: The uses permitted in the PUD are limited by Building Type, and further limited in location by which Zone those Building Types may be constructed, and are based upon uses permitted in similar Districts of the Phoenix Zoning Ordinance, as noted in the Land Use Table (page 29) and in Section 608 of the Phoenix Zoning Ordinance. The uses comprise the following Building Types:

1. Commercial buildings: buildings with commercial, retail and general business uses.
2. Office buildings: buildings with business and professional office uses.
3. Mixed-Use buildings: multi-story buildings, typical commercial in character, with more than one use including, but not limited to, commercial, office, and residential uses which may be on one or more floors (vertically mixed uses).
4. Live-Work buildings: single or multi-story buildings, typically residential in character, with a flexible office or business use integrated with one (or more) residential dwellings to commercial uses, such as a house with a home office or townhouse over a retail business space.
5. Multi-family buildings: buildings with multiple residential dwelling units.
6. Single-family attached buildings: multiple residences that share one or more walls with adjoining dwellings but are not vertically stacked.
7. Single-family detached buildings: individual stand-alone residences.

b. Temporary Uses: All Temporary Uses permitted and following the approval process as described in Section 708 of the Phoenix Zoning Ordinance.

c. Accessory Uses: Accessory uses are permitted in each Building Type according to the Phoenix Zoning Ordinance District regulations referenced in the Land Use Table (page 29).



Land Use Table

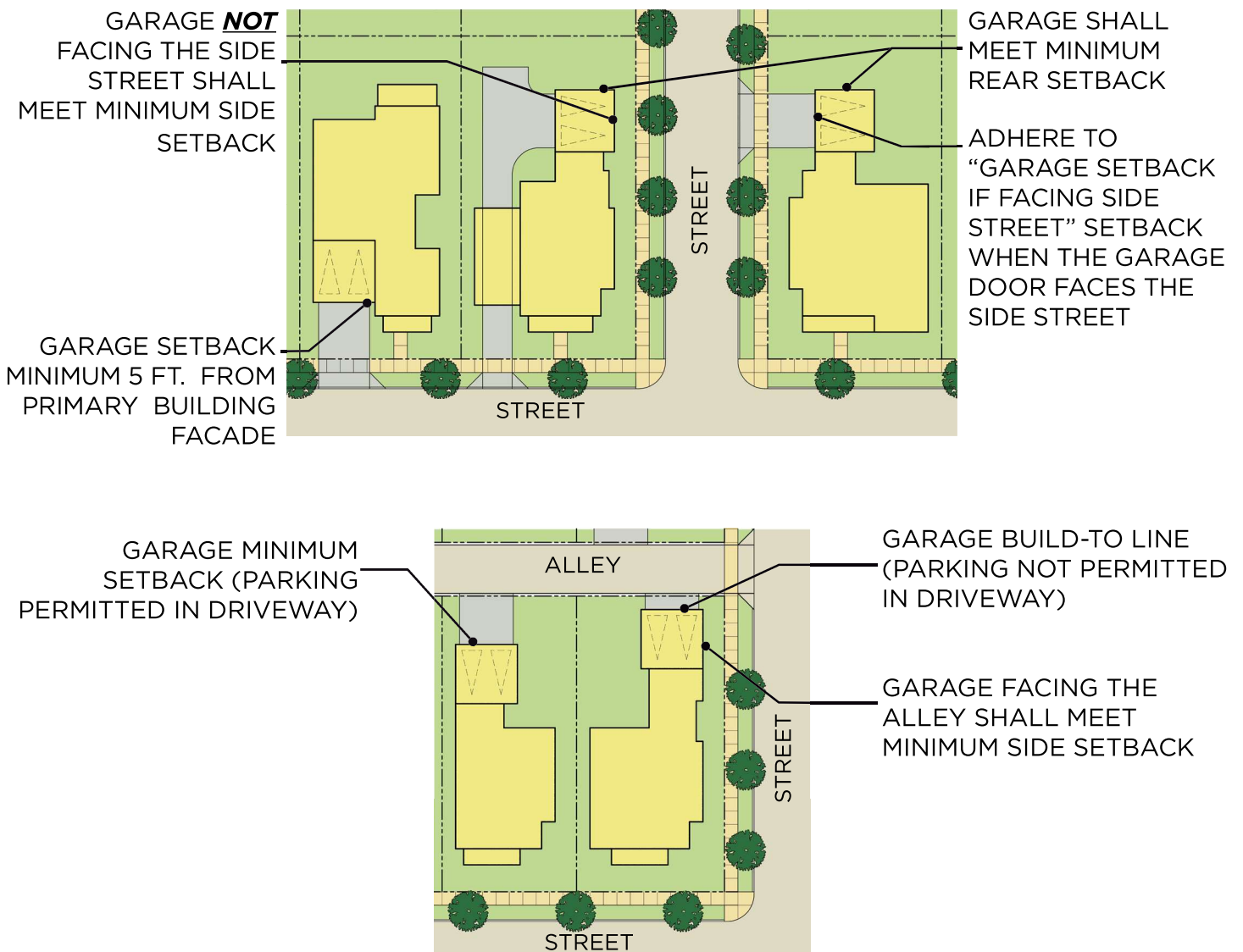
				Building Types					
				Commercial	Office	Mixed-Use, incl. Live/Work	Multi-Family Residential	Single Family Attached Residential	Single Family Detached Residential
<i>See Phoenix Zoning Ordinance for Permitted Uses and Accessory Uses as listed in the referenced Districts:</i>				<u>C-2</u>	<u>C-O, CP/GCP</u>	<u>C-1</u>	<u>R-5</u>	<u>R-2</u>	<u>R1-6</u>
Land Use Districts	Approximate Acreage	Land Use Description							
Zone 1	23.08 Acres	Commercial		Permitted	Permitted	Permitted	Permitted	Permitted	Not Permitted
Zone 2	13.56 Acres	Main Street Mixed-Use		Permitted	Permitted	Permitted	Permitted	Permitted	Not Permitted
Zone 3	39.96 Acres	High-Density Residential/Mixed-Use		Permitted	Permitted	Permitted	Permitted	Permitted	Permitted
Zone 4	207.45 Acres	Neighborhood Residential		Not Permitted	Not Permitted	Live/Work Dwellings Permitted Only	Permitted	Permitted	Permitted
Zone 4-A	47.52 Acres	Neighborhood Residential (no Multifamily)		Not Permitted	Not Permitted	Not Permitted	Not permitted	Permitted	Permitted
Zone 5	24.65 Acres	Office/Multifamily/Residential		Not Permitted	Permitted	Permitted	Permitted	Permitted	Permitted
Zone 6	49.15 Acres	Office/Commercial/Multifamily		Permitted	Permitted	Permitted	Permitted	Permitted	Not Permitted
Maximum Density		Dwelling Units per Acre		40	40	50	50	12	8
Building Height		Maximum Building Height		140 ft.	140 ft.	70 ft.	70 ft.	Zone 4-A: 30 ft.; All other zones: 48 ft.	Zone 4-A: 30 ft.; All other zones: 45 ft.

G. DEVELOPMENT STANDARDS

It is the purpose and intent of the provisions defined within this Norterra PUD to promote the development of a dynamic mixed-use development. The provisions of this Norterra PUD will ensure compatibility with surrounding properties; provide a variety of land uses, services, and employment, and support the residential needs of the existing and future employees at USAA, as well as the larger community in the Deer Valley Village residential opportunities. The Norterra PUD development standards and design guidelines are reflective of the mixed-use environment envisioned for the area.

Development of the master planned community shall comply with the provisions governed by the Phoenix Zoning Ordinance, unless specifically listed below and in the Development Standards Table (page 31). If there are conflicts between specific provisions of this Norterra PUD, and the Phoenix Zoning Ordinance or design guidelines, the terms of this Norterra PUD shall apply. The Norterra PUD only modifies zoning ordinance regulations and does not modify other City Codes or requirements.

Garage Setback Illustration



Development Standards Table

Bulk Regulations for Land Uses								
		Building Types						
		Commercial	Office	Mixed-Use, incl. Live/Work	Multi-Family Residential	Single Family Attached Residential	Single Family Detached Residential	
Maximum Density (Dwelling Units per Acre)		40	40	50	50	12	8	
Maximum 2,200 Dwelling Units								
Minimum Lot Width		None	None	None	None	20 ft.	30 ft.	
Minimum Lot Depth		None	None	None	None	None, except 110 ft. adjacent to arterial	None, except 110 ft. adjacent to arterial	
Minimum Building Setbacks/ Build to Lines	Front Setback (Street and Green Court ¹)	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	10 ft.	10 ft.
	Side Setback (Street and Green Court ¹) ⁷	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	8 ft.	Lots 60 ft. wide or less: 8 ft.; Lots wider than 60 ft.: 10 ft.
	Side Setback (along another property) ⁷	0 ft. (common wall) or 10 ft. min. between buildings	0 ft. (common wall) or 10 ft. min. between buildings	0 ft. (common wall) or 10 ft. min. between buildings	0 ft.	0 ft. (common wall) or 3 ft. min., Combined 10 ft. min. between buildings	Lots 40 ft. wide or less: 0 ft. min., Combined 10 ft. min. between buildings ⁸ ; Lots equal to or more than 41 ft. wide and less than or equal to 60ft. wide: 5 ft. min., Combined 13 ft. min. between buildings; Lots 61 ft. wide or more: 5 ft. min., Combined 15 ft. min. between buildings	
	Rear Setback	0 ft. (common wall) or 10 ft. min. between buildings	0 ft. (common wall) or 10 ft. min. between buildings	0 ft. (common wall) or 10 ft. min. between buildings	0 ft.	15 ft. (1-story), 20 ft. (2 or more stories); 5 ft. if facing alley or parking area	15 ft. (1-story), 20 ft. (2 or more stories); 5 ft. if facing alley	
	Garage Setback if Facing Street ²					5 ft. back from the main building façade, 20 ft. min.	5 ft. back from the main building façade, 20 ft. min.	
	Garage Setback if Facing Side Street ²					20 ft. min.	20 ft. min.	
	Garage Setback if Facing Alley ²					5 ft. Build-To Line or 18 ft. min.	5 ft. Build-To Line or 18 ft. min.	
Minimum Landscape Setbacks	Front Setback (Street) ³	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	10 ft.	10 ft.
	Side Setback (Street) ^{3,7}	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	Zone 2: 0 ft. Zone 3: 10 ft. All other zones: 20 ft.	8 ft.	Lots 60 ft. wide or less: 8 ft.; Lots wider than 60 ft.: 10 ft.
	Rear Setback (Street) ³	10 ft.	10 ft.	10 ft.	10 ft.	10 ft.	10 ft.	
	Perimeter ⁴	10 ft., 15 ft. Average	10 ft., 15 ft. Average	10 ft., 15 ft. Average	10 ft., 15 ft. Average	10 ft., 15 ft. Average	10 ft., 15 ft. Average	
	Interior ⁵	Commercial	0 ft.	0 ft.	10 ft.	10 ft.	10 ft.	10 ft.
		Office	0 ft.	0 ft.	10 ft.	10 ft.	10 ft.	10 ft.
		Mixed-Use, incl. Live/Work	10 ft.	10 ft.	0 ft.	10 ft.	10 ft.	10 ft.
		Multi-Family Residential	10 ft.	10 ft.	10 ft.	0 ft.	10 ft.	10 ft.
Single Family Attached Residential		10 ft.	10 ft.	10 ft.	10 ft.	0 ft.	0 ft.	
Single Family Detached Residential	10 ft.	10 ft.	10 ft.	10 ft.	0 ft.	0 ft.		
Minimum Building Separation (on same lot)		Per Building Code	Per Building Code	Per Building Code	Per Building Code	Per Building Code	Per Building Code	
Maximum Building Height ⁶		140 ft.	140 ft.	70 ft.	70 ft.	Zone 4-A: 30 ft.; All other zones: 48 ft.	Zone 4-A: 30 ft.; All other zones: 45 ft.	
Maximum Lot Coverage		100%	100%	100%	100%	100%	80%	
Open Space Requirements					5%	5%	5%	

1. Green Courts are conditions where a lot fronts onto a right-of-way, public park or common space other than a street and vehicle access is maintained via an alley or other drive located at the rear of the lot
2. Refer to garage setback illustration for further clarification
3. "Street" defined as Collector and Local streets; does not refer to Alleys
4. Defined as the portions of the site adjacent to arterial & major collector roads
5. All interior landscape setbacks between adjacent and different building types
6. Height Transition Standards: Properties that have building types that are over 45 feet in height and have a shared property line with a Single-Family Attached and Detached Residential building type shall provide a building setback of one foot for each additional one foot of building height over the 45-foot height and up to the maximum permitted height
7. The lot width shall be determined by the width of the narrower portion of the lot
8. Corner lots over 40 feet in width may utilize the same setbacks as applied to an adjacent 40-foot wide lot, if enhanced architecture is provided on the street side elevation, as approved by the Master Architecture Plan. Corner lots requiring enhanced architecture shall be identified on the final site plan and subdivision plat

Landscape Standards

The landscape standards for Norterra PUD shall establish a minimum acceptable standard for the integration of the built environment into the natural landscape while providing a comfortable, accessible and aesthetically pleasing community.

All plant materials are subject to the lists as set forth in the Phoenix Zoning Ordinance, Section 703: Landscaping, Fences and Walls and the Sonoran Boulevard Development Standards for Happy Valley Road, except as modified as part of the following landscape standards. The American Southwest Desert Plant List (Appendix A, page 85-87 will be considered the primary reference for appropriate plants for the Norterra PUD. The internal portions of the site (PUD Entries, Parks/Common Space, Boulevard, Main Street Commercial, Avenue (Residential) and Local Road Landscape) may contain a more enhanced landscape plant palette as displayed in Appendix B (pages 88-89). While the lists are considered comprehensive, it is not exhaustive. Proposals for additional plant materials may be reviewed and administratively approved by City staff.

For landscaping required adjacent to buildings, see “Phoenix Zoning Ordinance for Permitted Uses and Accessory Uses as listed in the referenced Districts” in the Land Use Table (page 29).

Summary Chart for Planting Guidelines

Landscape Standards						
		Trees	Shrubs	Turf	Area Requirements	
Streetscape Right-of-Way	Arterial Landscape	Min. 3 in. caliper canopy tree or multi-trunk trees (50% of required trees)	Min. five (5) 3-gallon shrubs per tree and minimum 50% of ground-cover			
		Min. 2 in. caliper canopy tree (50% of required trees)				
1 tree per 20 ft. on center or equivalent groupings						
Streetscape Right-of-Way	All Other Dedicated Roadways	Min. 2 in. caliper canopy tree (60% of required trees)	Min. five (5) 3-gallon shrubs per tree and minimum 50% of ground-cover			
		Min. 1 in. caliper canopy tree (40% of required trees)				
1 tree per 20 ft. on center or equivalent groupings						
Landscape Setbacks	Entry Landscape	Min. 2 in. caliper tree (50% of required trees)	Average of five (5) 3-gallon shrubs per tree and minimum 50% of ground-cover	Maximum of 50% of total landscape area	Min. of 3,000-sq. ft. Min. width of planting areas shall be 20 ft. and located on both corners of the entry roads	
		Min. 3 in. caliper tree (50% of required trees)				
		1 tree per 20 ft. on center or equivalent groupings				
	Landscape Setbacks	Common Area Landscape / Parks	Tree for every 600-sq. ft. total landscape area (min 2 in. caliper for 60% required trees, min 1 in. caliper for 40% required trees) less sidewalks, plazas, play areas, sight visibility, and active turf zones	Min. five (5) 3-gallon shrubs per tree per area requirements and minimum 50% of ground-cover	Maximum of 50% of total landscape area	
			Palm trees shall be a minimum of 20 ft. in height	Min. one (1)-gallon ground-cover per tree		
	Landscape Setbacks	Multifamily	Min. 2 in. caliper tree for every 500-sq.ft. of required setback area, less driveways and sidewalks	Min. two (2) 5-gallon drought resistant shrubs for 100-sq.ft. of required setback less driveways and sidewalks and minimum 50% groundcover		
Landscape Setbacks	Perimeter Landscape	Min. 2 in. caliper tree (60% of required trees)	Min. five (5) 3-gallon shrubs per tree and minimum 50% of ground-cover			
		Min. 1 in. caliper tree (40% of required trees)				
		1 tree per 20 ft. on center or equivalent groupings				
Landscape Setbacks	Parking Lot Area Landscape	Min. 2 in. caliper tree (60% of required trees)	Min. five (5) 3-gallon shrubs per tree and minimum 50% of ground-cover		Required landscaped area at ends of each row of parking and approximately every 110 ft. Minimum of 120 sq. ft.	
		Min. 1 in. caliper tree (40% of required trees)				
		1 tree per 20 ft. on center or equivalent groupings				



Entry Landscape

The project has several major gateway entries along the perimeter of the site. See Parks & Open Space Landscape Patterns (Exhibit 9, page 35). These will be the primary entry points and will provide a sense of character that will define the project's aesthetic charm. Landscape plantings shall consist of mature specimen trees (two-inch caliper or greater), mass plantings of evergreen and flowering shrubs, ground-cover, and accent cacti plantings. Standards per Summary Chart for Planting Guidelines (page 32) shall apply.



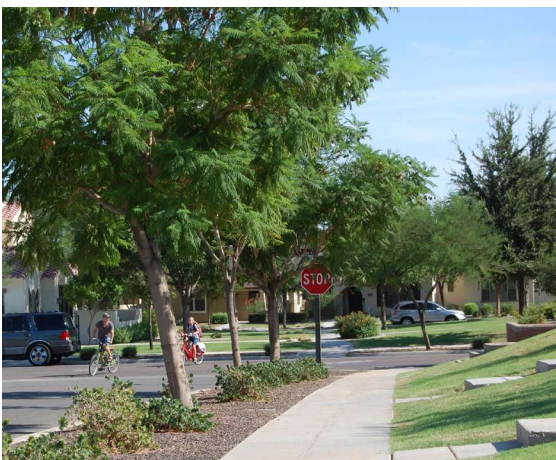
Arterial & Major Boulevard Landscape

The arterial landscape treatment will provide an attractive entry feel and edge that will buffer the roads from adjacent residences, provide shade for pedestrians and maintain a native desert appearance and function. The appropriate mix of canopy trees, shrubs and ground-covers will provide an attractive pedestrian experience along the arterial connectors. Plant materials will be incorporated between the street and adjacent sidewalks, as well as between the sidewalks and residences, where appropriate, to provide an interesting and comfortable pedestrian environment. Berms and undulating landforms may be incorporated along with appropriate screen walls or fences to provide a degree of separation where appropriate. See Conceptual Circulation Plan (Exhibit 10, page 36) for the location of arterial streets; the Circulation Plan is conceptual and shall be controlled by the required Master Street Plan, upon its approval.



The following standards as well as the Summary Chart for Planting Guidelines (page 32) shall apply:

1. Landscaping along Norterra Parkway shall be consistent with the landscaping provided south of the PUD to Happy Valley Road.
2. An undulating landscape setback will be provided along Jomax Road and 19th Avenue with drought tolerant vegetation as identified in the Sonoran Boulevard standards. The landscape setback and sidewalk along Happy Valley Road will adhere to the Sonoran Boulevard standards, as measured from right-of-way prior to any trail dedication.



Boulevard, Avenue (Residential), & Local Road Landscape

The planting materials along the interior boulevard and avenue residential portions of the site shall be more enhanced to complement the commercial/residential architectural components. Tall, shade producing trees, flowering shrubs and groundcovers may be planted to allow for site lines to buildings, signage and vehicular movements. Where sidewalks are detached, trees shall be installed to provide shade for pedestrians. Plant materials for this zone shall be selected more within the "enhanced" landscape palette found in Appendix B. See the Conceptual Circulation Plan (Exhibit 10, page 36) for the conceptual location of Boulevard and Avenue (Residential) alignments.

Common Space Landscape

The following standards as well as the Summary Chart for Planting Guidelines (page 32) shall apply:

1. Turf is limited to a maximum of 50% of the total landscape area. Turf is recommended in usable and visually significant areas only that are supported by irrigation.
2. Decorative rock (decomposed granite) is required in all landscape areas with the exception of turf. Any other material may be permitted as reviewed and approved by the Planning and Development Department.

Perimeter and Screen Walls

All screen walls and fences shall comply with the Phoenix Zoning Ordinance, Section 703: Landscaping, Fences and Walls, except as noted below:

1. Walls shall be designed to blend into the surrounding desert landscape through the use of compatible materials and colors. All site perimeter walls along arterial and major collector roads and between varying uses shall be a minimum of six-feet in height, with a maximum of eight-feet in height. Any blank walls adjacent to streets and sidewalks shall be limited to a maximum of 40-feet along a continuous plane, at which the wall shall be articulated with a setback, change of materials, use of artwork, or appropriate plant materials.
2. No screen or perimeter walls over 40-inches in height will be permitted within the front yard setback.
3. No screen or perimeter wall may incorporate chain link fencing or non-decorative corrugated metal. No wall shall be topped with razor, concertina, barbed wire or any equivalent.
4. Screen walls are required between parking lots and streets.
5. Loading, maneuvering and other service areas shall be screened so that they are not visible from the perimeter right-of-ways.

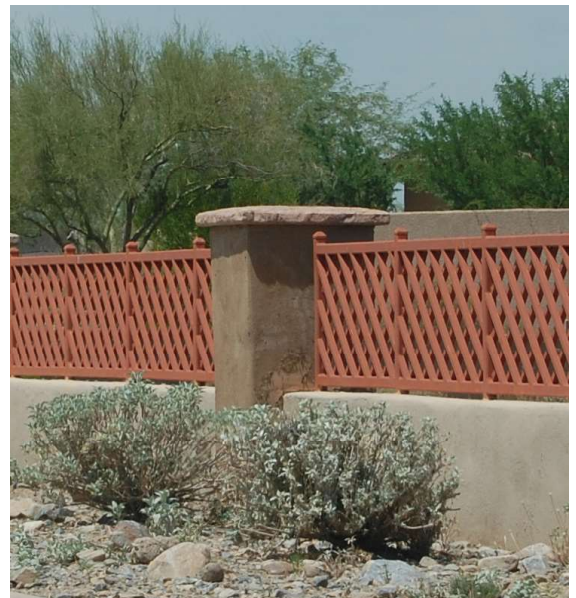
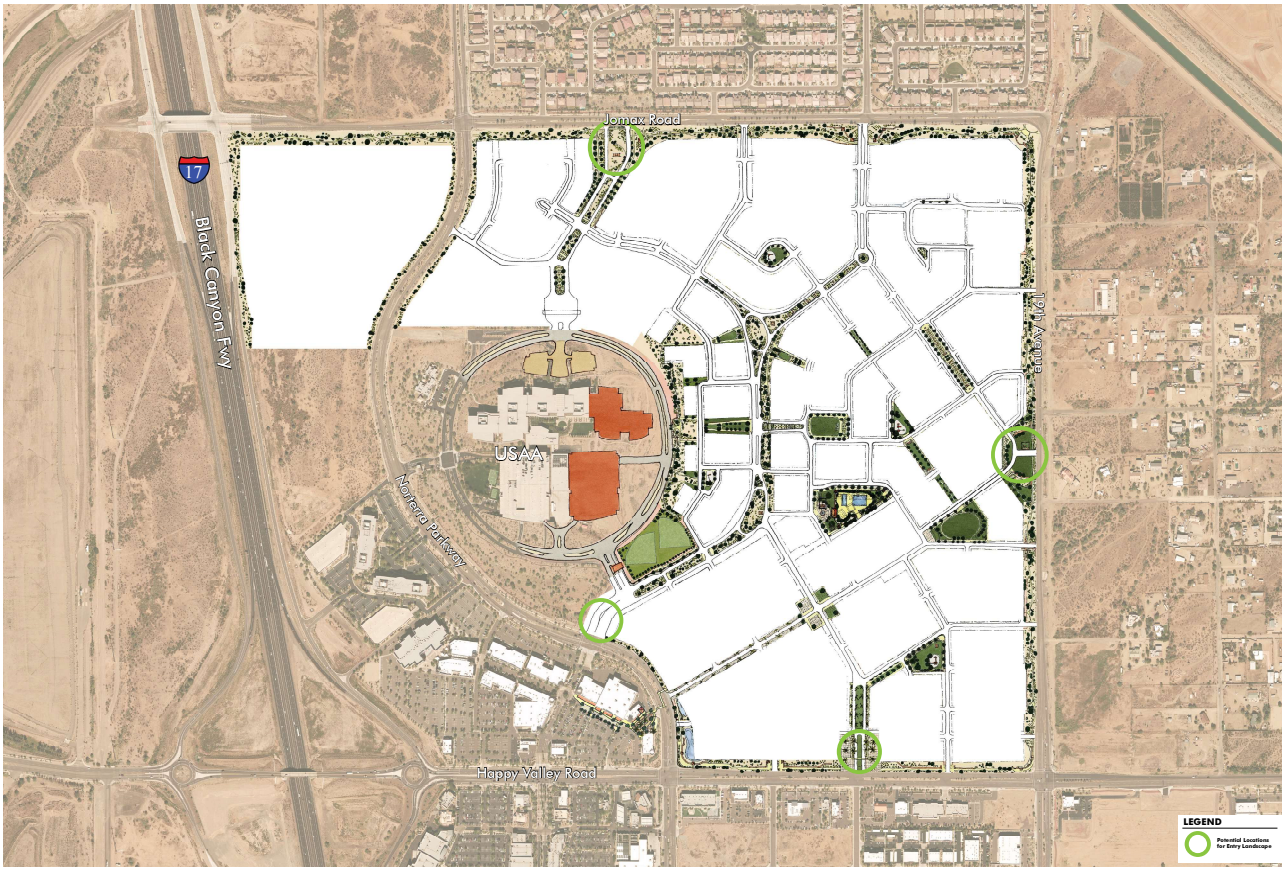


Exhibit 9
Conceptual
Landscape Plan



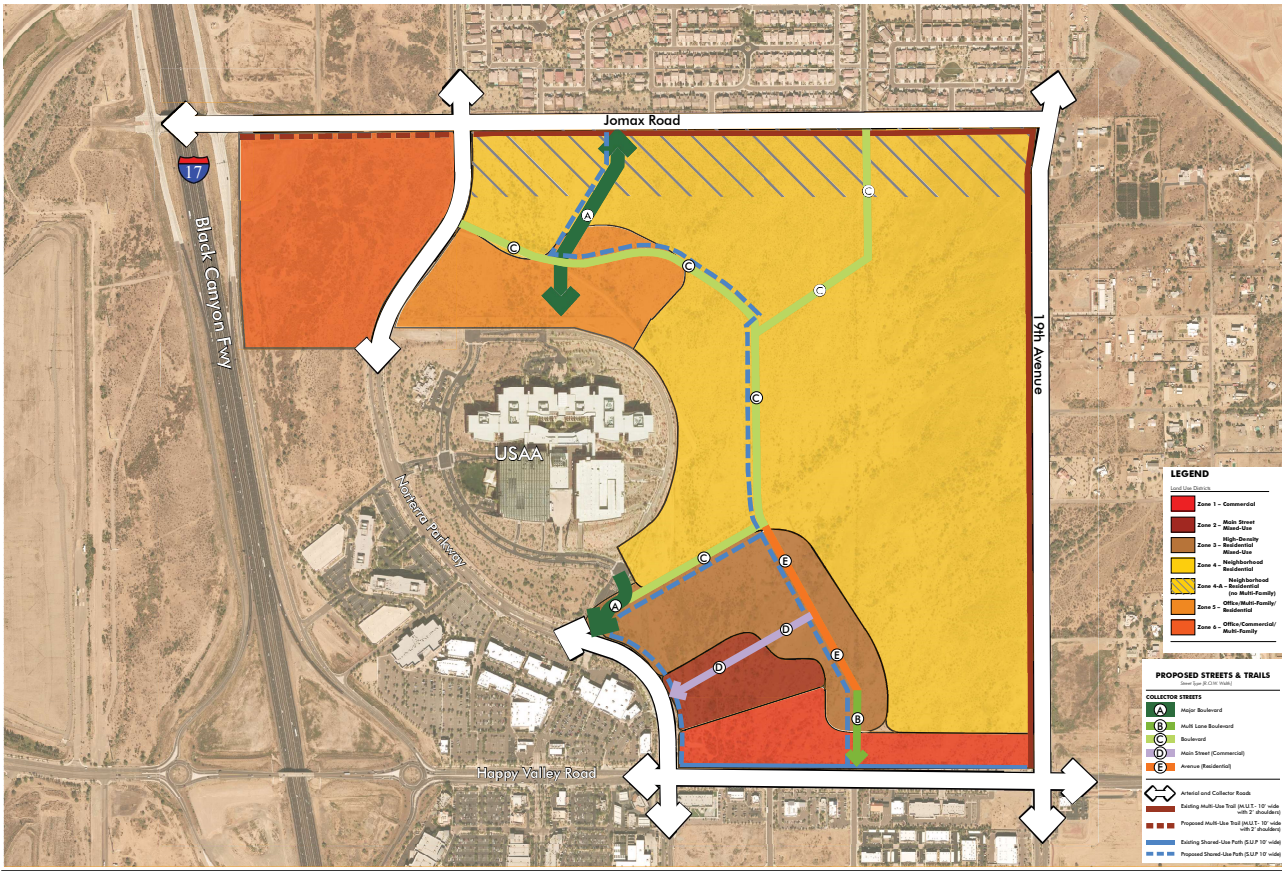
PARKS & OPEN SPACE LANDSCAPE PATTERNS
NORTERRA

Phoenix, AZ
 March 11, 2013
 Version 04/01/2013

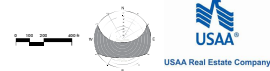


Artist depiction for illustrative purposes only. The location, configuration, and pattern of developed areas, open space and other features is preliminary and subject to change.

Exhibit 10
Conceptual
Circulation Plan



PROPOSED STREETS & TRAILS
NORTERRA
Phoenix, AZ
March 2, 2017
Version 1.0 (AUG 2016)



This plan is conceptual. Final alignments, roadway sections, and path locations to be defined during the Master Plan process.



Interior Walls/Fences

All internal fencing shall have a maximum height of six-feet except fencing located on the perimeter of game courts. No chain link fencing is permitted, except as prescribed at tennis or similar game courts as necessary. Such fencing shall not incorporate plastic or metal slats. Plastic and/or vinyl fences and clad fences are prohibited.

Screening

Outdoor storage (other than vehicle parking) shall be screened from view from any perimeter street. Ground mounted mechanical equipment over 36-inches in height shall be screened from view by a minimum of a 40-inch in height solid wall or suitable ever-green plant materials. Any walls shall be architecturally compatible with the primary structure.



Trash compactors and dumpsters shall be screened with a masonry wall architecturally compatible with surrounding structures with minimum six-foot height, not to exceed eight-foot height. Doors shall be constructed with metal frame and compatible slat materials.

Parking

The minimum number of required parking spaces shall be as set forth in Section 702 of the Phoenix Zoning Ordinance, minus 10% and except for those standards modified in the sections below. This provision shall not limit the ability of the applicant or end user to apply for a zoning adjustment application to further modify any development standard or ordinance provision.



The following exceptions or additions to the parking standards listed in Section 702 of the Phoenix Zoning Ordinance shall apply:

Parking, General

1. Parking spaces located in surface lots to be a minimum dimension of nine-feet by 18-feet, unless otherwise approved by the Planning and Development Department.
2. Tandem Parking shall be allowed by right. Minimum dimensions of tandem spaces to be a minimum of nine-feet by 18-feet.
3. A shared loading area model will be permissible between the commercial and residential loading spaces, provided the City's Planning and Development Department approves such shared loading model.
4. On-Street parking located on streets adjacent to and within the development may count toward the total number of required parking spaces.

5. A development may take into consideration available public parking (including on-street) within 300-feet of the project to determine the total amount of non-residential parking provided.

Parking Garage

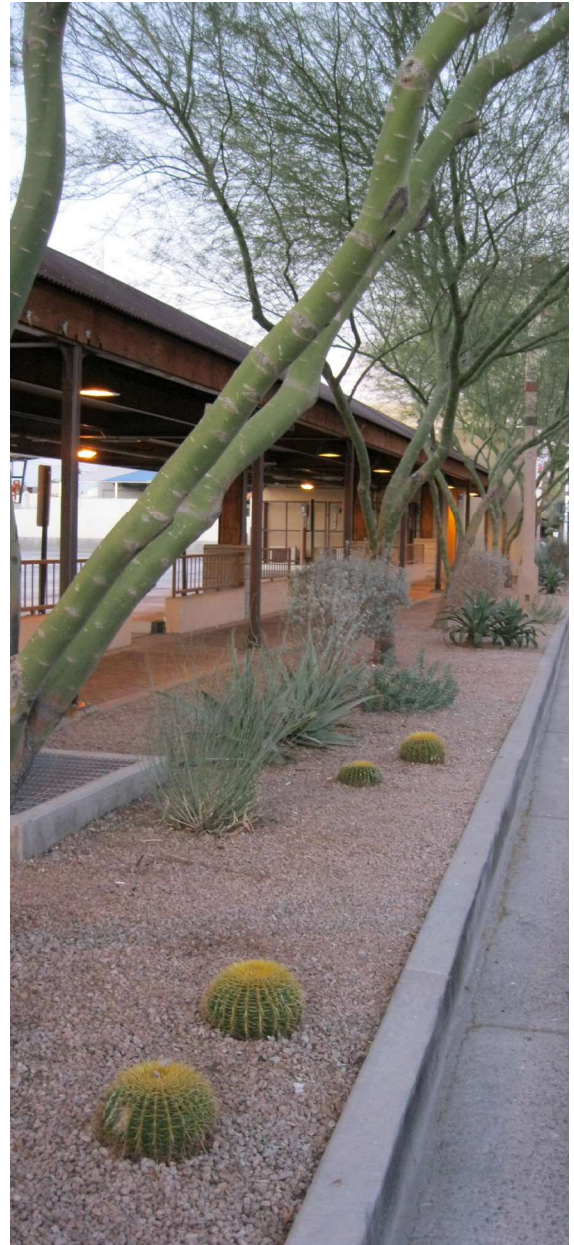
1. At least 50% of provided spaces shall be a minimum dimension of nine-feet by 18-feet; Remainder of parking spaces may be reduced down to eight-feet six-inches by 18-feet.
2. Parking structures shall not be designed in a manner that creates a linear walled effect at the perimeter of the property. Continuous ground level wall planes for parking garages is limited to 250-feet at which the wall shall be articulated with a setback, change of materials, use of artwork, or appropriate plant materials.
3. Screening Ground/first floor: If the parking garage is constructed adjacent to the public right-of-way, then the ground/first floor shall be designed to allow retail, commercial space or amenity space. This ground floor space should orient to the street or right-of-way. Parking structures may include murals or other architectural features to reduce long spans or blank walls.
4. Any portion of the parking garage visible from the public right-of-way or adjacent to a single-family detached residential use shall be screened with material and design. Where the garage represents a single use as part of a larger building, screening material and design will be consistent with the primary building.
5. Second Floor and Above: Vehicles shall be screened from public view within the garage. Vehicles shall be screened from view by a minimum of a three-foot wall, or other appropriate screening material as approved by the Planning and Development Department.
6. Portions of the top deck level may house amenities for the sole use of residents.

Compact Parking

1. The minimum dimensions for compact parking spaces are eight-feet by 16-feet.
2. Projects located within Zones 1, 2 and 3 may use compact space dimensions for no more than 10% of required parking spaces.

Parking Requirements

1. Live-Work Dwelling Unit: 1.0 space per one dwelling unit, plus 0.3 spaces per 500-square feet commercial use or per one employee.
2. The development is intended to be a walkable and bikable neighborhood where many residents can take alternative means of transportation to local shops, destinations and ame-





nities. Parking requirements are reduced for resident oriented facilities:

- Fitness/Family Activity Center/Community building: 1.0 space per 300-square feet floor area
 - Swimming Pools: 1.0 space per 120-square feet of deck area
 - Tennis Courts/Racquetball/Handball Courts: 1.5 spaces per court
3. Commercial non-retail uses over 5,000-square feet shall provide a minimum of:
 - One bicycle space per 40 vehicle parking spaces provided up to a required maximum of 25 bicycle spaces.
 - If no vehicle parking is provided, then a minimum of two bicycle spaces are required.
 - Two bicycle spaces shall be provided for every 25,000-square feet of building square footage.
 4. Multi-family residential development shall provide common bicycle parking at 0.25 spaces for each residential unit, with a maximum of 40 spaces.



Shade

Due to extreme summer heat, shading of pedestrian spaces along with misting systems and other cooling techniques are necessary for user comfort. Plazas, courtyards and sidewalks must contain spaces within them that are shaded in the summer months, but allows for sun penetration in the winter months. Incorporating canopies, building extensions, overhangs, arcades, and other shading devices into the design of office, retail and amenity buildings in Zones 1, 2 and 3 is required. Sensitive design assuring accessibility is imperative.

- Within Zones 1 and 2, a minimum of 50% of public sidewalks shall be shaded.

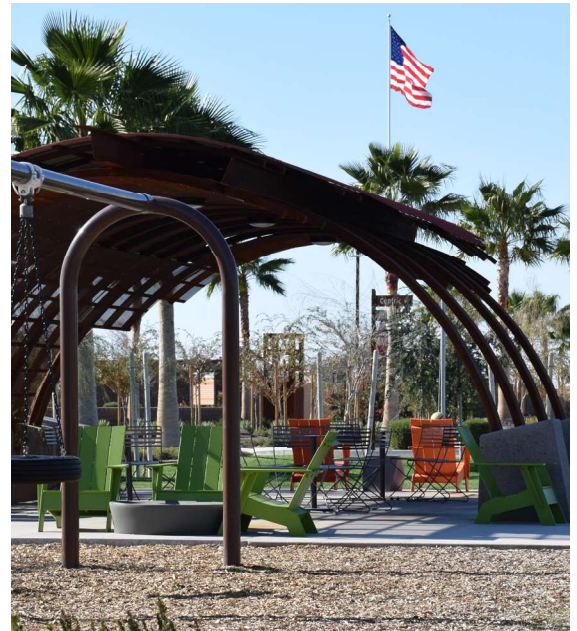


Lighting

Minimization of light pollution for the protection of nighttime views is an important component of the design theme for the project, as well as for the adjacent neighboring properties. All exterior lighting for common open space areas, subdivision entries, and adjacent to the internal streets will meet or exceed provisions set forth in Section 507.Tab A.II.A.8: Site Lighting of the Phoenix Zoning Ordinance and Phoenix City Code Section 23-100: Outdoor Lighting. Exterior lighting shall comply with the following provisions:

1. Fluorescent bulbs, exposed exterior neon lighting, colored bulbs (except for seasonal decoration) and internally lit awnings are prohibited along street frontage.
2. Broadly illuminating more than 75% of a building's facade, or "washing", is not permitted.

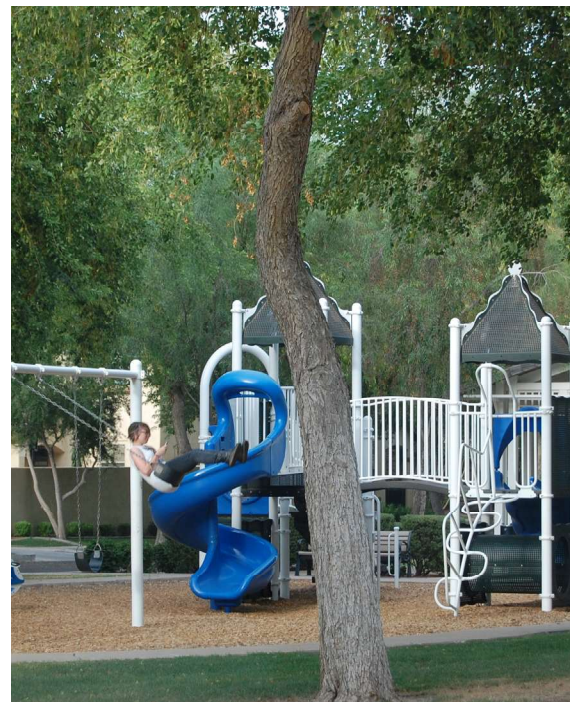
3. No luminaries should have any blinking, flashing or fluttering lights or other illuminating device which has a changing light intensity, brightness or color, nor is any beacon light permitted, except those required for fire alarm and/or emergency systems.
4. Low pressure sodium and fluorescent tube lighting is prohibited on street frontage.
5. Pedestrian-scaled lighting will be utilized where taller or brighter lights are not needed for auto safety and security. Required lights will be of minimum heights, utilizing shoebox type fixtures with maximum shielding or other fixtures, exclusive of sports court and field lighting.
6. If directed lighting is provided to illuminate the building facade, signs, architectural elements/ornamentation, storefront displays, the public sidewalk and entrances for the interest, security and the comfort of pedestrians at nighttime, then these lights must be on photocells or timers.
7. Pole mounted light fixtures shall not exceed a height of 18-feet, including lamp, pole and base, as measured from the adjacent grade.
8. Sports court and ballfield lighting shall be permitted, but will not be located within 500 feet of the east or north perimeter boundaries of the site.



Amenities

Parks, open space and a range of public amenities will be provided for the residents of the site and community at large. These spaces and improvements will occur in conjunction with construction of residential units within the overall development and details of which shall be determined during the Master Planning Process. Development milestones set the threshold at which specific amenities shall be complete. The following will be provided in each phase of development:

- No fewer than two park spaces of a minimum of .40-acres each. Additional park spaces may be provided that are less than .40-acres
- A minimum of one gazebo or shade structure
- A minimum of one playground suitable for toddlers (tot lot) or children
- A minimum of one formal green defined by an irrigated turf lawn of no less than .20-acres
- A minimum of one water feature or fountain
- A minimum of five park benches
- A minimum of one bike rack in each park space of a minimum of .40-acres
- A minimum of two trash receptacles in each park space of a minimum of .40-acres
- A minimum of one drinking fountain in each park space of a minimum of .40-acres
- A minimum of one picnic table





No recreational ballfields and sports courts shall be located within 500-feet of the north boundary of the site.

A multi-use trail and shared-use path network of no less than three and one-half miles, including the existing multi-use trails and shared-use paths along Jomax Road, 19th Avenue and Happy Valley Road, will be provided as shown in the Conceptual Circulation Plan (Exhibit 10, page 36). Trails are to be constructed as adjacent areas are developed.

Design Review

All single-family detached homes shall meet the requirements found in the Guidelines for Design Review Section 507. Tab A. II.C.8 of the Phoenix Zoning Ordinance with the additional provisions:

- All lots wider than 50-feet shall incorporate Design Guidelines Sections 8.1 through 8.4 for lots under the same requirements specified for lots “> 50’ to 59’ ” in width.
- A minimum of three different front yard plant palettes consisting of a minimum of one accent tree, five shrubs and turf or ground cover, or evidence of a landscaping incentive package shall be provided for all single-family detached homes.



H. DESIGN GUIDELINES

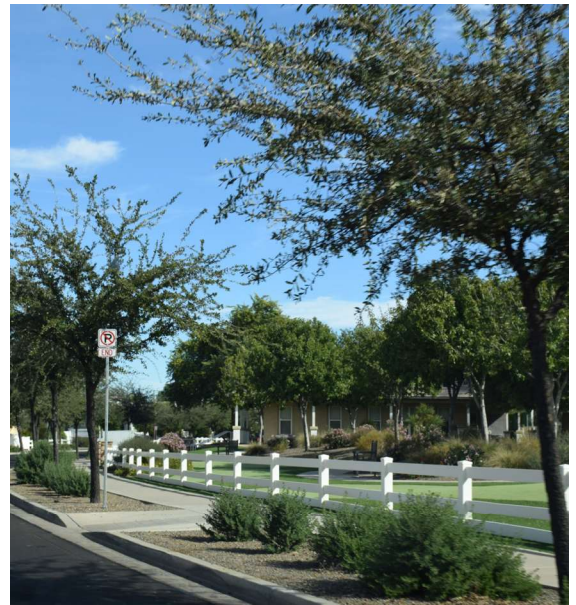
The buildings will visually integrate with the site and its context by utilizing building placement and form that harmonize with the site and surrounding environment. An appropriate balance will exist between the buildings and the surrounding open spaces to create a hierarchy of spatial definition. The development plan will promote flexibility in uses and design while providing consistent development regulations to guide development of the individual parcels within the site. The development will comply with the Design Guidelines set forth in Section 507 Tab A of the Phoenix Zoning Ordinance.



The Norterra PUD will provide a number of common design elements which will include: thematic streetscape, building materials and colors, shade features on the buildings, pedestrian linkages and outdoor spaces, lighting fixtures, and compatible, uniform landscaping and signage.

Thematic Streetscape

The streetscapes within the Norterra PUD will be designed in a way that promotes pedestrian and bike use while ensuring a safe driving experience. With this approach in mind, a hierarchy of streetscapes have been designed that support appropriate speeds, access and connectivity within the neighborhood and to the surrounding region. The streets and boulevards will go beyond simply providing necessary connections and will also serve as landscaped amenity spaces complete with sidewalks, street trees and other





landscape features and in some instances will include wide landscaped medians and off-road shared use paths. Electric boxes, transformer utilities, and conduits should be concealed from view, where possible. Unless indicated, all streets may include on-street parking on one-side or both sides of the street. The Street Sections and the descriptions below are conceptual and shall be controlled by the required Master Street Plan, upon its adoption.

Major Boulevard

The Major Boulevard will provide for a primary means of access to and within the site and is defined by a wide landscaped median, tree shaded off-street shared use paths and sidewalks and appropriate lighting for both vehicular and pedestrian traffic. Major Boulevard will include:

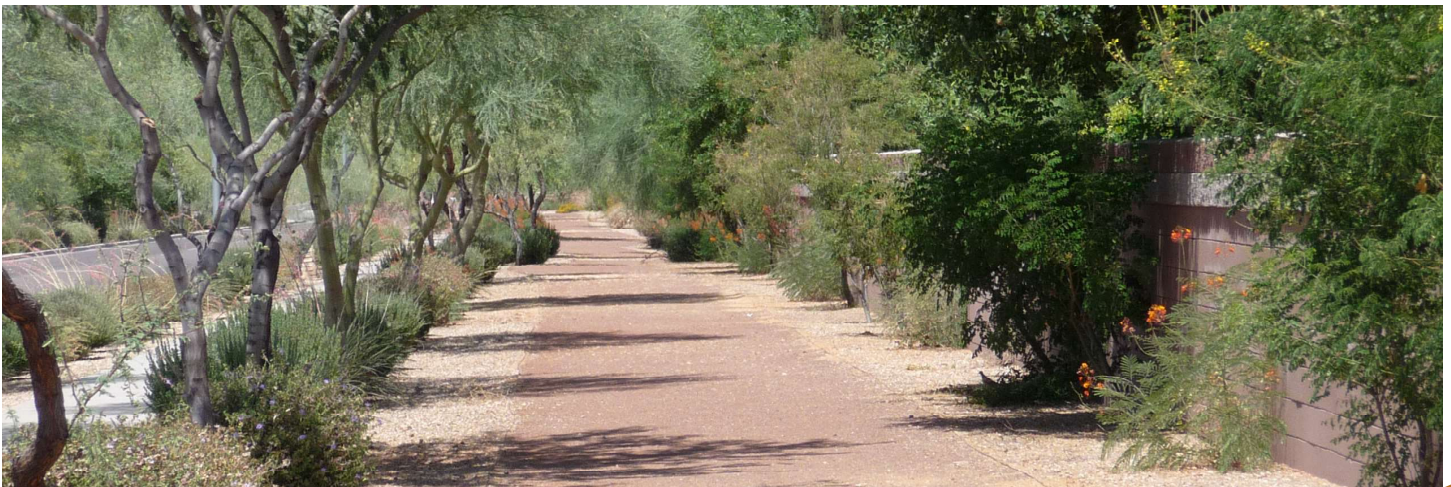
- Landscaped median, minimum 15-foot wide (inside curb dimension)
- Off-street Shared Use Path, minimum 10-foot wide with minimum six-foot wide landscape planter along one side of street
- Detached sidewalk, minimum five-foot wide with minimum six-foot wide landscape planter along one side of street



Multi-Lane Boulevard

The Multi-Lane Boulevard will serve as a primary collector roadway through the neighborhood and will include a wide landscaped median, sidewalk and shared use path shaded by trees planted within a wide landscape area located between the street and the sidewalk and appropriate lighting for both vehicular and pedestrian traffic. Multi-Lane Boulevard will include:

- Landscaped median, minimum 15-foot wide (inside curb dimension)
- Off-street Shared Use Path, minimum 10-foot wide with minimum six-foot wide landscape planter along one side of street
- Detached sidewalk, minimum five-foot wide with minimum six-foot wide landscape planter along one side of street



Boulevard

The Boulevard will serve as a primary collector roadway through the neighborhood and will include a wide landscaped median, sidewalk and shared use path shaded by trees planted within a wide landscape area located between the street and the sidewalk and appropriate lighting for both vehicular and pedestrian traffic. Boulevard will include:

- Landscaped median, minimum 15-foot wide (inside curb dimension)
- Off-street Shared Use Path, minimum 10-foot wide with minimum six-foot wide landscape planter along one side of street
- Detached sidewalk, minimum five-foot wide with minimum six-foot wide landscape planter along one side of street



Main Street - Commercial

The commercial heart of the neighborhood will be along Main Street with buildings that open directly onto wide sidewalks which include appropriate landscaping and pedestrian and vehicular scaled street lighting. The street level of buildings along Main Street will be developed to consider the pedestrian experience and adjacent uses by varying sidewalk widths and landscape buffers with the goal of creating a lively and inviting street. Main Street Commercial, which will be developed as a private street, will include:

- Detached minimum 10-ft sidewalk included in a pedestrian access easement on both sides of the street with minimum four-foot planters directly adjacent to commercial uses, excluding senior assisted living centers/senior dependent care facility/nursing home, office and multi-family residential uses.
- Detached minimum 6-ft sidewalk included in a pedestrian access easement on both sides of the street with minimum three-foot planters adjacent to all senior assisted living centers/senior dependent care facility/nursing home, office and multi-family residential uses.
- Planters adjacent to the street may be separated by breaks to allow pedestrian connections between the sidewalk and parked vehicles.
- Street trees will be planted in planters that are a minimum of five-foot in width.



Avenue - Residential

The Avenue provides for a sidewalk, shared use path, landscape areas between the sidewalks and the street and appropriate lighting for both vehicular and pedestrian traffic. Avenue - Residential will include:

- Off-street Shared Use Path, minimum 10-foot wide with minimum six-foot planter along one side of street
- Detached sidewalk, minimum five-foot wide with minimum ten-foot wide landscape planter along one side of street



Minor Neighborhood Street

The Minor Neighborhood Street will define the majority of the streets in the community which will include tree shaded sidewalks and landscape areas and pedestrian scaled lighting more befitting a residential neighborhood and will encourage slower vehicular speeds. Minor Neighborhood Street will include:

- Detached sidewalk, minimum five-feet wide with minimum five-foot planter on both sides of street.

One-Way (Green Street)

One-Way Green Streets may be employed in areas around small parks and open spaces that are too wide to be considered a median. Like the streets mentioned above, these too will include tree shaded sidewalks, a landscape area between the sidewalk and the street as well as pedestrian scaled lighting. One Way (Green Street) will include:

- Detached sidewalk, minimum five-feet wide with minimum five-foot planter on at least one side of street

Alley

In some locations and neighborhoods, vehicular access to homes will occur not from the primary front street, but via a rear alley. In these areas and along boulevards and avenues, the pedestrian experience and safety will be improved as front yards will be uninterrupted by driveways. These alleys may be built as either private roadways within the development or as public rights-of-way that will provide for utility and service access.

Parking Garages

Where possible, parking structures should not be adjacent to streets but should be adjacent to alleys or be internal to the site. Where placed internal to the site, it is preferred that garages be located a minimal distance from the right-of-way to allow for the construction of liner buildings of appropriate scale and use. Parking structures will be designed, to the greatest extent possible, to minimize the mass of the parking structures when adjacent to single-family detached properties. In addition, the parking structures shall be designed to prevent vehicular headlights and the interior lights of the parking structures from shining directly onto the single-family detached properties.

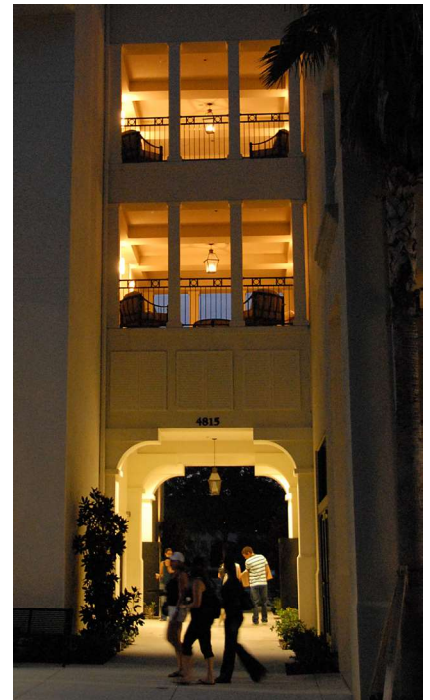
Landscape Theme and Design

The landscape standards provide a framework for a common landscape theme that is compatible with the Sonoran Desert and the surrounding environment. It is desirable to utilize materials that are common and compatible within the regional desert character, while helping to conserve water resources. Plant materials along the perimeter of the PUD will soften the general appearance of the project, provide shade and buffering between adjacent lands uses and follow a more regional desert character. Plant Materials within internal areas of the PUD may follow a more enhanced, transitional approach with larger varieties of shade trees, a more lush, formalized, and diverse blend of flowering shrubs, accents, and groundcovers. Turf shall be used sparingly and shall be focused more within usable open space park areas, and to accent focal points at PUD entries. A copy of the landscape plan and required plant materials list can be found in the Landscape Standards (page 32), Conceptual Landscape Plan (Exhibit 9, page 35) and Plant lists (Appendix A & B, Pages 85-89).



Lighting

1. Traditionally styled fixtures or appropriately scaled contemporary fixtures are recommended. Lighting should be in the form of goose-neck fixtures attached to the facade, or by means of accent pendants or sconces and should be coordinated with the building design to be in keeping with the style of architecture.
2. Projecting lighting fixtures used for externally illuminated signs and awnings should be simple and unobtrusive. They should not obscure the sign graphics or architectural elements of the building.
3. Lighting which illuminates storefronts after closing until two-am while contributing to a comfortable nighttime pedestrian experience is encouraged. Fixtures used for architectural lighting, such as facade, feature, and landscape lighting, should be aimed or directed to preclude light projection beyond immediate objects intended to be illuminated. Shield or arrange light sources to minimize unnecessary glare for pedestrians and cars. Fixtures may be attached to the building surface. They may also be attached to the structure of blade signs.
4. The number of fixtures should be minimized to only those necessary for effective lighting. This will avoid clutter on the building facade.
5. Utility wall-pack light fixtures are not appropriate on public right-of-way.
6. Ground-oriented, pedestrian-scale lighting should be considered as an alternative to pole-mounted fixtures along pedestrian walkways.
7. Metal halide, color-corrected mercury-vapor and color-corrected high-pressure sodium lamps are preferred.





8. High, road focused lighting may be appropriate on designated road collectors in and around the site.
9. On local neighborhood streets, the preference would be for the use of lower height pedestrian scaled poles and mounted fixtures.
10. Landscape lighting may contain low-level up-lighting fixtures to highlight specimen trees, dramatic landscape elements, and architectural features at the subdivision entries.
11. LED and/or energy efficient lighting technology should be included into any and all lighting constructed on site including parking lots, parks and streets.
12. Wherever possible, lights should include “full cut-off” illumination that shields light from being emitted upwards toward the night sky or towards surrounding natural areas.

Amenities

The Norterra PUD will provide a host of amenities supportive of a high quality life for residents, businesses and visitors in and near the neighborhood. Shaded streets complete with landscaped planting areas, sidewalks and off-street shared used paths will promote pedestrian activity and safety while also catering to automobile traffic.

The presence of major employers and activity centers in the immediate vicinity will offer the opportunity for residents to live, work and play in the same neighborhood. Main Street will provide services, dining and entertainment options for neighborhood residents and the surrounding region. A series of trails and bike routes will connect residents and businesses with numerous parks and open spaces within the development and with the walkways and paths along Jomax Road, 19th Avenue, Norterra Parkway and Happy Valley Road and is reflected on the Conceptual Circulation Plan (Exhibit 10, page 36).

Parks and opens spaces will be located throughout the development in a manner that ensures every home and business is within a short walk of one of these spaces. These parks and open spaces will vary in size and programming including passive natural areas, small pocket parks and plazas, playgrounds, larger parks complete with landscaped turf grass as well as more formal parks including at least two community play fields supportive of soccer and/or baseball.

A community building will be a focal point for life within the neighborhood and may include a fitness facility and restrooms which will also serve to support an outdoor pool area. Where the neighborhood and Main Street come together in Land Use District Zone 4, an area is designated for future development as a community school or other potential civic use.

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I. SIGNS

The PUD sign provisions establish comprehensive provisions that will assure proper and efficient signage that is compatible with the character and environment of the PUD. Signs should enhance the visual environment of the City of Phoenix, protect against visual blight, promote general safety, ensure compatibility with the character of the neighborhoods, and provide the essential identity of, and direction to the site.

Norterra should convey a sense of tradition, quality, sustainability and style. Signage should be legible and well-crafted as well as designed to avoid visual clutter. Creativity is encouraged and owners or tenants may be allowed greater flexibility within the guidelines. Some regulations may be exceeded in some circumstances via a zoning adjustment or comprehensive sign plan, for signs that are well designed and have a high degree of character and inventiveness. Signage should not obscure or block key architectural features, the normal flow of pedestrian or vehicular traffic, or sight lines to adjacent properties. Architecturally, building signage should utilize and/or enhance the architectural elements of the building and be placed in a logical relation to the overall composition of the building's facade. Signs should never cover any key architectural features or details of the building they attach to.



It is intended that all signs meet the requirements found in Section 705 of the Phoenix Zoning Ordinance. A Comprehensive Sign Plan shall be processed and approved for all commercial uses in accordance with Section 705.E.2 of the Phoenix Zoning Ordinance. Residential uses, including senior assisted living center/senior dependent care facility/nursing home, will not be required to process a comprehensive sign plan.



J. SUSTAINABILITY

1. The following are standards that are measurable and enforceable by the City:
 - a. Commercial non-retail uses over 5,000-square feet shall provide a minimum of:
 1. One bicycle space per 40 vehicle parking spaces provided up to a required maximum of 25 bicycle spaces.
 2. If no vehicle parking is provided, then a minimum of two bicycle spaces are required.
 3. Two bicycle spaces shall be provided for every 25,000-square feet of building square footage.
 - b. Multi-family residential development shall provide common bicycle parking at 0.25 spaces for each residential unit, with a maximum of 40 spaces.
 - c. Within Zones 1 and 2, a minimum of 50% of public sidewalks shall be shaded.
2. The following are sustainability practices that are highly encouraged by the developer:
 - a. Vertical mixed-use development including but not limited to the area along and near the Main Street. Such a development pattern is envisioned to include retail and/or office uses on the ground floor of buildings with office or residential units located above.
 - b. A sustainable recycling program will be actively pursued and supported for all single-family and multi-family developments.
 - c. Provide pedestrian amenities such as: shaded sidewalks separated and protected from the street by landscape elements, waste receptacles (recycling and trash), clocks, way finding, benches and pedestrian scaled lighting on secondary streets.
 - d. Provide active living amenities such as recreational structures within project common areas, playground equipment and active play fields.
 - e. Shade surface parking spaces using vegetation, low-sloped structural shading with a minimum SRI of 29, or a similar material that achieves additional shading with high reflectivity.
 - f. Shade provided using solar structures for surface parking lot or other hardscape areas including rooftop parking.
 - g. Encourage shared/reciprocal parking to reduce the overall number of parking spaces required. Use and implementation of shared parking strategies should be considered wherever possible following the requirements provided in Section 702.E.2 Shared parking model.
 - h. Provide for bike lanes and multi-use paths throughout the site that connect residents to businesses, amenities, parks and opens spaces.
 - i. Provide locations for secure bike parking such as visible public bike racks and/or bike lockers.
 - j. Incorporate public art that is a permanent installation that is visually or physically accessible by the general public.
 - k. Landscape and stormwater management that seeks to retain storm runoff where appropriate and allow it to provide water for landscaping and improve groundwater conditions.
 - l. Utilize non-invasive native vegetation within landscape areas including parks and opens spaces, landscape buffers and setback, and along streets within the community.
 - m. Provide a wide variety of home types and sizes that will attract residents that are equally varied in age and lifestyle.
 - n. Include LED and energy efficient lighting technology into any and all lighting constructed on site including parking lots, parks and streets.

K. INFRASTRUCTURE

Conceptual Circulation Plan Overview

The development will be accessed from Jomax Road to the north, 19th Avenue from the east, Happy Valley Road from the south and Norterra Parkway from the west as shown in the Conceptual Circulation Plan (Exhibit 10, page 36). The proposed improvements associated with the USAA campus along Happy Valley, 19th Avenue, Jomax and Norterra are all complete. A short section of the trail at the southwest corner of Jomax Road and Norterra Parkway will be constructed per the Master Plans. No additional improvements other than construction of the new intersections for the on-site roadways is anticipated.

Grading and Drainage

The site generally slopes mildly from northeast to southwest at approximately one percent. Several small existing washes emanating at the eastern boundary extend southwesterly to the southern boundary. Off-site runoff that historically was conveyed by these washes is now diverted by existing drainage infrastructure along the north and east boundaries. Generally the site grading will include elevated lowest floor elevations of all structures above adjacent estimated 100-year water surface elevations that drain to adjacent streets which convey runoff to retention basin or other outlet locations. If street capacities are exceeded additional conveyance systems such as storm drains will be introduced to carry additional storm water.

Currently, all 100-year off-site flow impacting the northern and eastern site boundary is collected in existing drainage facilities and routed around the site and discharges at historical locations. Existing adjacent drainage facilities include: Jomax Road and Norterra Parkway storm drain system, 19th Avenue and Happy Valley Road storm drain system. The Jomax Road storm drain system collects flow along Jomax Road, and from the residential developments and Central Arizona Project (CAP) overflow north of the site. The flow is then conveyed south within the Norterra Parkway large diameter storm drain system where it connects into a 2-10-foot x 5-foot Reinforced Concrete Box Culvert (RCBC) drainage crossing located at the intersection of Norterra Parkway and Happy Valley Road before it ultimately discharges into an existing channel that runs south along the west side of 23rd Avenue. The 19th Avenue storm drain system collects flow along 19th Avenue and from the residential area and CAP overflow east of the site. The flow is then conveyed west within the Happy Valley Road large diameter storm drain system where it discharges the majority of flow south within a storm drain system located on the west side of 21st Avenue (approximately ¼ mile west of 19th Avenue). The remainder of the flow continues west until it connects into the 2-10-foot x 5-foot RCBC drainage crossing located at the intersection of Norterra Parkway and Happy Valley Road.

Per the City of Phoenix development regulations, the PUD will have all on-site development retain the 100-year, 2-hour storm runoff volume within the site unless otherwise approved by the City Engineer. The site will also manage on-site stormwater conveyance and storage in accordance with the City of Phoenix and Flood Control District of Maricopa County (FCDMC) requirements.

In addition, logical stormwater management alternatives will be incorporated to create a viable and sustainable community. Alternatives may include: utilizing shallow rain gardens to dissipate stormwater; bio-swales as a means of stormwater conveyance and filtration; construction of site specific underground drainage systems that aide in percolating stormwater into the soil; or other alternatives developed in the future. As techniques improve and technology advances, certain sustainable applications will be employed within the project.

Water and Wastewater Services

Water. City of Phoenix will be the potable water service provider for the site. The existing City of Phoenix waterlines located around the perimeter of the site will be utilized to serve the planned development. The existing waterlines include: 12-inch and 16-inch water mains running east/west, north of the site in Jomax Road; 12-inch and 54-inch water mains running north/south, east of the site in 19th Avenue; 12-inch and 24-inch water mains running east/west, south of the site in Happy Valley Road; and 16-inch water main running north/south, west of the site in Norterra Parkway. The existing 12-inch waterlines surrounding the north, east, and south sides will be connected to internal looped waterlines which will distribute water to the site. Additionally, connections will be made to the existing 12-inch waterline around the existing USAA Campus.

The PUD document does not prescribe any water requirements. The water distribution system will be designed and constructed in accordance with City of Phoenix Water Services Department Design Standards.

Wastewater. City of Phoenix will be the wastewater service provider for the site. The existing sewer infrastructure located around the perimeter of the site includes a 10-inch gravity main running east to west, north of the site within Jomax Road, that discharges into a 21-inch gravity main in Norterra Parkway. The 21-inch gravity sewer extends north to south along Norterra Parkway, west of the site boundary from Jomax Road to the intersection of 23rd Avenue and Happy Valley Road and continues south along 23rd Avenue. A 12-inch gravity main extends east to west along Happy Valley Road south of the site boundary and discharges into the 23rd Avenue 21-inch gravity sewer. A dual 24-inch force main extends north to south along 19th Avenue, east of the site from a lift station located northeast of the site to Happy Valley Road where it extends east.

The proposed development will tie into the existing City of Phoenix sewer mains at six (6) discharge locations. A majority of the site is projected to outfall to three existing manhole/stub locations along the existing 21-inch main within Norterra Parkway. The first is located approximately 400 feet south of the Jomax Road and Norterra Parkway intersection. The second located at the intersection of White Thorn and Norterra Parkway. The third is located approximately 480 feet north of the Happy Valley Road and Norterra Parkway intersection.

The remainder of the site is projected to outfall to an additional three manhole locations along the existing 12-inch main within Happy Valley Road. The first, second, and third tie-ins are located approximately 350 feet, 990 feet, and 1,380 feet east of the Happy Valley Road and Norterra Parkway intersection.

The PUD document does not prescribe any wastewater requirements. The wastewater system will be designed and constructed in accordance with City of Phoenix Water Services Department Design Standards.

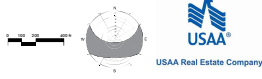
L. PHASING PLAN

The construction of this community is anticipated in several phases. The first phase will occur primarily in the southern half of the site and along the areas nearest 19th Avenue and Norterra Boulevard. The first phase will include several key access roads and the heart of the community defined by the community building and associated amenities along with surrounding neighborhoods composed of a wide variety of single-family detached homes, single-family attached homes, multi-family units as well as a number of parks and open spaces. The second phase will build outward upon the first phase and will include additional home types and sizes, multi-family units and could include portions of the Main Street commercial area. The third phase will include construction of single-family homes along the northern portions of the site nearest Jomax Road and will see additional mixed-use development along Main Street as well as commercial development along Happy Valley Road. Trails, additional parks and open spaces will be built in conjunction with the development of adjacent homes, blocks and streets. See Phasing Plan (Exhibit 11, page 53).

Exhibit 11
Phasing Plan



DEVELOPMENT PHASING PLAN
NORTERRA
Phoenix, AZ
Revised: 8/1/2015
10/10/2015



Comparative Zoning Standards Table

STANDARDS	R-5 PRD ZONING	PUD ZONING
DENSITY NUMBER OF D.U.	MAXIMUM 52.2 D.U. PER ACRE WITH BONUS	MAXIMUM 50 D.U. / ACRE MAXIMUM 2200 D.U.
MINIMUM LOT WIDTH/DEPTH	N/A	N/A
BUILDING SETBACKS	PERIMETER ADJACENT TO STREETS: 20' PERIMETER ADJACENT TO PROPERTY LINES: 10' INTERIOR FRONT: 10'	FRONT 0' - 20' SIDE (STREET) 0' - 20' SIDE (PROPERTY) 0' - 15' (MINIMUM SEPARATION) REAR 0' - 20'
LANDSCAPE SETBACKS	PERIMETER ADJACENT TO STREETS: 20' PERIMETER ADJACENT TO PROPERTY LINES: 5'	FRONT 0' - 20' SIDE (STREET) 0' - 20' PERIMETER 10' MINIMUM, 15' AVERAGE REAR (STREET) 10' INTERIOR 0'-10'
BUILDING SEPARATION	PER ADOPTED CODE	PER ADOPTED CODE
HEIGHT	4 STORIES OR 48' (APPLIES TO RESIDENTIAL USES) THERE SHALL BE A 15- FOOT MAXIMUM HEIGHT WITHIN TEN FEET OF A SINGLE-FAMILY ZONED DISTRICT, WHICH HEIGHT MAY BE INCREASED ONE FOOT FOR EACH ADDITIONAL ONE FOOT OF BUILDING SETBACK TO THE MAXIMUM PERMITTED HEIGHT.	COMMERCIAL MAXIMUM 140' OFFICE MAXIMUM 140' MIXED-USE MAXIMUM 70' MULTI-FAMILY MAXIMUM 70' SINGLE-FAMILY ATTACHED MAXIMUM 30'- 48' SINGLE-FAMILY DETACHED MAXIMUM 30'- 45'
LOT COVERAGE	MAXIMUM 50%	N/A
COMMON AREA	MINIMUM 5% OF THE GROSS AREA	MINIMUM 5% OF THE GROSS AREA, PLUS ADDITIONAL COMMUNITY COMMON SPACE

Exhibit 13

Legal Description

Wood, Patel & Associates, Inc.
(602) 335-8500
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April 30, 2015
WP# 154308
Page 1 of 3
See Exhibit "A"

PARCEL DESCRIPTION USAA Norterra Zone 1

A portion of Lot 1, Lot 2 and Right-of-Way as shown on USAA Amended Final Plat recorded in Book 691, page 26, Maricopa County Records (M.C.R.), lying within Section 1, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said section, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet, said southeast corner also being the **POINT OF BEGINNING**;

THENCE along said south line, North 89°37'02" West, a distance of 2674.52 feet, to said south quarter corner of Section 1 and the monument line of Norterra Parkway, as shown on said USAA Amended Final Plat;

THENCE leaving said south line, along said monument line, North 00°29'52" West, a distance of 300.04 feet, to the beginning of a curve;

THENCE northerly along said curve, having a radius of 645.00 feet, concave westerly, through a central angle of 00°49'35", a distance of 9.30 feet, to a point of intersection with a non-tangent line;

THENCE leaving said monument line, North 60°40'59" East, a distance of 378.84 feet;

THENCE South 89°37'02" East, a distance of 806.70 feet;

THENCE South 00°22'58" West, a distance of 177.00 feet;

THENCE South 89°37'02" East, a distance of 366.82 feet;

THENCE South 69°57'07" East, a distance of 53.54 feet;

THENCE South 89°37'02" East, a distance of 1123.16 feet, to the east line of said Section 1;

Exhibit 13 Legal Description

Parcel Description
USAA Norterra
Zone 1

April 30, 2015
WP# 154308
Page 2 of 3
See Exhibit "A"

THENCE along said east line, South 00°13'09" East, a distance of 302.00 feet, to the **POINT OF BEGINNING**.

Containing 23.0844 acres, or 1,005,556 square feet of land, more or less.

Subject to existing rights-of-way and easements.

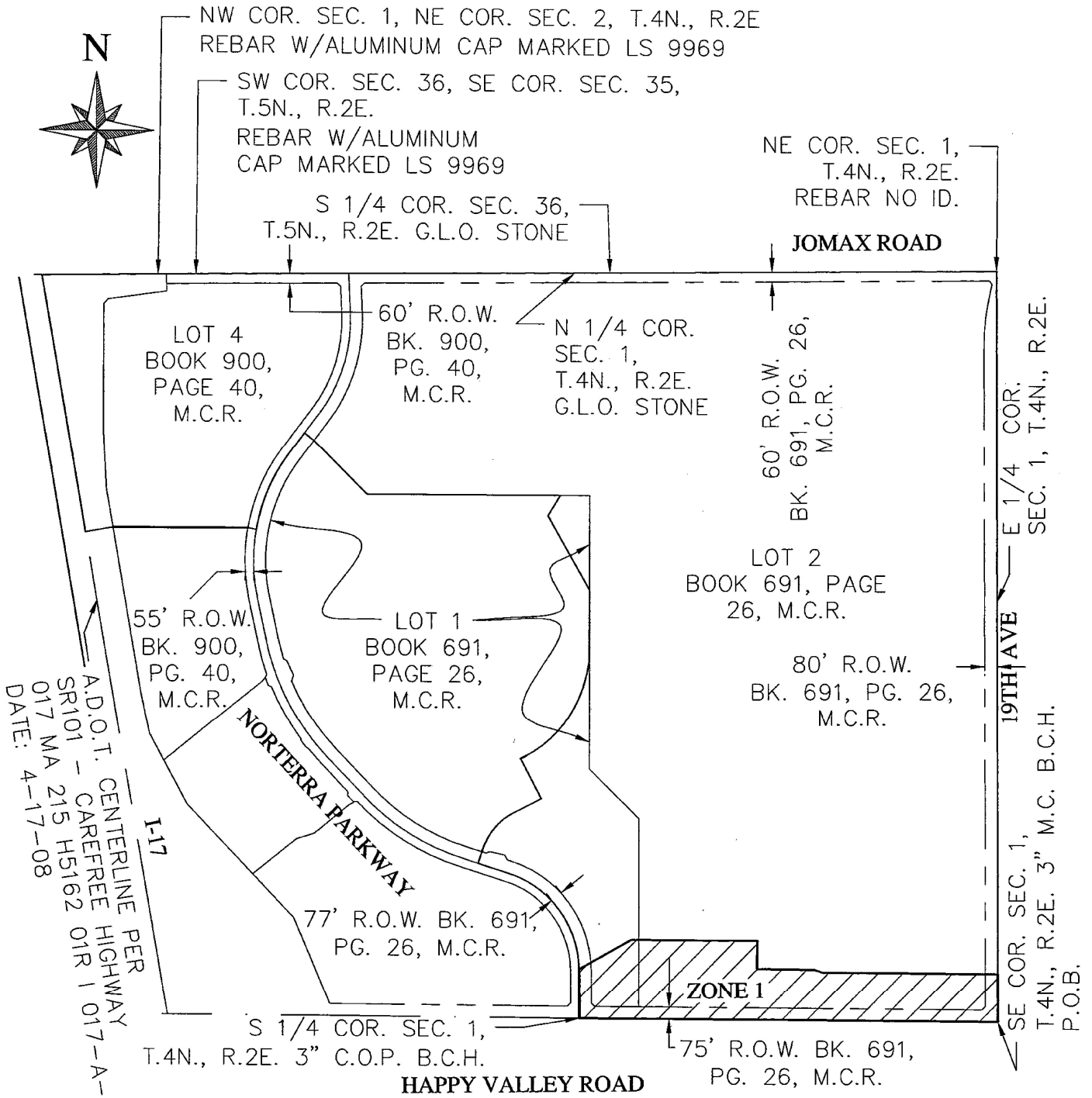
This parcel description is based on said USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of March, 2015. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

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PHOENIX - MESA - TUCSON

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
46118
KATHY M.
SVECHOVSKY
Date Signed 4-30-15
Kathy M. Svecovsky

EXPIRES 03-31-16

EXHIBIT "A"
USAA NORTERRA
ZONE 1
04/30/15
WP#154308
PAGE 3 OF 3
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April 30, 2015
WP# 154308
Page 1 of 3
See Exhibit "A"

PARCEL DESCRIPTION USAA Norterra Zone 2

A portion of Lot 1, Lot 2 and Right-of-Way as shown on USAA Amended Final Plat recorded in Book 691, page 26, Maricopa County Records (M.C.R.), lying within Section 1, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said section, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet,
THENCE along the south line of said Section 1, North 89°37'02" West, a distance of 2674.52 feet, to said south quarter corner of Section 1 and the monument line of Norterra Parkway, as shown on said USAA Amended Final Plat;
THENCE leaving said south line, along said monument line, North 00°29'52" West, a distance of 300.04 feet, to the beginning of a curve;
THENCE northerly along said curve, having a radius of 645.00 feet, concave westerly, through a central angle of 00°49'35", a distance of 9.30 feet, to the **POINT OF BEGINNING**;
THENCE continuing, northerly along said curve, having a radius of 645.00 feet, concave westerly, through a central angle of 35°13'06", a distance of 396.47 feet, to a point of intersection with a non-tangent line;
THENCE leaving said monument line, North 60°31'51" East, a distance of 1084.46 feet;
THENCE South 29°53'53" East, a distance of 643.13 feet;
THENCE South 00°22'58" West, a distance of 165.00 feet;
THENCE North 89°37'02" West, a distance of 806.70 feet;

Exhibit 13

Legal Description

Parcel Description
USAA Norterra
Zone 2

April 30, 2015
WP# 154308
Page 2 of 3
See Exhibit "A"

THENCE South 60°40'59" West, a distance of 378.84 feet, to the **POINT OF BEGINNING**.

Containing 13.5610 acres, or 590,719 square feet of land, more or less.

Subject to existing rights-of-way and easements.

This parcel description is based on said USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of March, 2015. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

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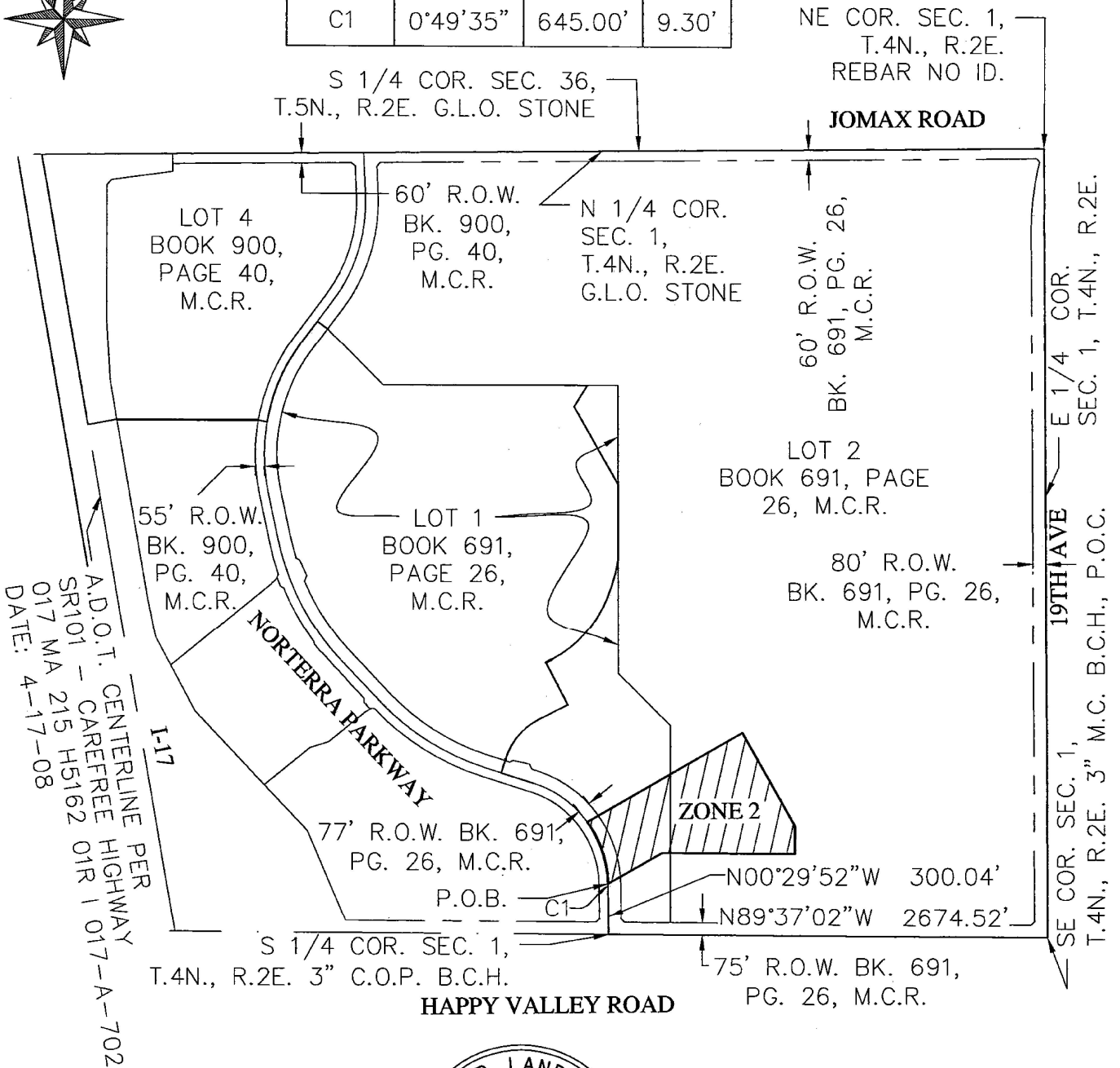


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CURVE TABLE			
CURVE	DELTA	RADIUS	ARC
C1	0°49'35"	645.00'	9.30'



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ZONE 2
04/30/2015
WP#154308
PAGE 3 OF 3
NOT TO SCALE

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April 30, 2015
WP# 154308
Page 1 of 3
See Exhibit "A"

PARCEL DESCRIPTION
USAA Norterra
Zone 3

A portion of Lot 1, Lot 2 and Right-of-Way as shown on USAA Amended Final Plat recorded in Book 691, page 26, Maricopa County Records (M.C.R.), lying within Section 1, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said section, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet,
THENCE along the south line of said Section 1, North 89°37'02" West, a distance of 2674.52 feet, to said south quarter corner of Section 1 and the monument line of Norterra Parkway, as shown on said USAA Amended Final Plat;
THENCE leaving said south line, along said monument line, North 00°29'52" West, a distance of 300.04 feet, to the beginning of a curve;
THENCE northerly along said curve, having a radius of 645.00 feet, concave westerly, through a central angle of 36°02'41", a distance of 405.77 feet, to the **POINT OF BEGINNING**;
THENCE continuing, northwesterly along said curve, having a radius of 645.00 feet, concave southwesterly, through a central angle of 36°03'01", a distance of 405.83 feet, to the curve's end;
THENCE North 72°35'34" West, a distance of 206.86 feet;
THENCE leaving said monument line, North 17°24'26" East, a distance of 77.00 feet, to the southwesterly line of said Lot 1;
THENCE leaving said southwesterly line, North 17°30'02" East, a distance of 9.67 feet, to the beginning of a curve;
THENCE northeasterly along said curve, having a radius of 400.00 feet, concave southeasterly, through a central angle of 46°06'04", a distance of 321.85 feet, to the curve's end;
THENCE North 63°36'06" East, a distance of 195.44 feet;
THENCE North 60°12'39" East, a distance of 1071.88 feet;
THENCE South 90°00'00" East, a distance of 302.37 feet;
THENCE South 06°51'22" East, a distance of 36.73 feet;
THENCE South 23°22'50" East, a distance of 21.82 feet;
THENCE South 31°54'29" East, a distance of 1374.09 feet;
THENCE South 00°13'09" East, a distance of 398.48 feet;
THENCE North 89°37'02" West, a distance of 175.94 feet;
THENCE North 69°57'07" West, a distance of 53.54 feet;
THENCE North 89°37'02" West, a distance of 366.82 feet;
THENCE North 00°22'58" East, a distance of 342.00 feet;
THENCE North 29°53'53" West, a distance of 643.13 feet;

Exhibit 13
Legal Description

Parcel Description
USAA Norterra
Zone 3

April 30, 2015
WP# 154308
Page 2 of 3
See Exhibit "A"

THENCE South 60°31'51" West, a distance of 1084.46 feet, to the **POINT OF BEGINNING**.

Containing 39.9556 acres, or 1,740,464 square feet of land, more or less.

Subject to existing rights-of-way and easements.

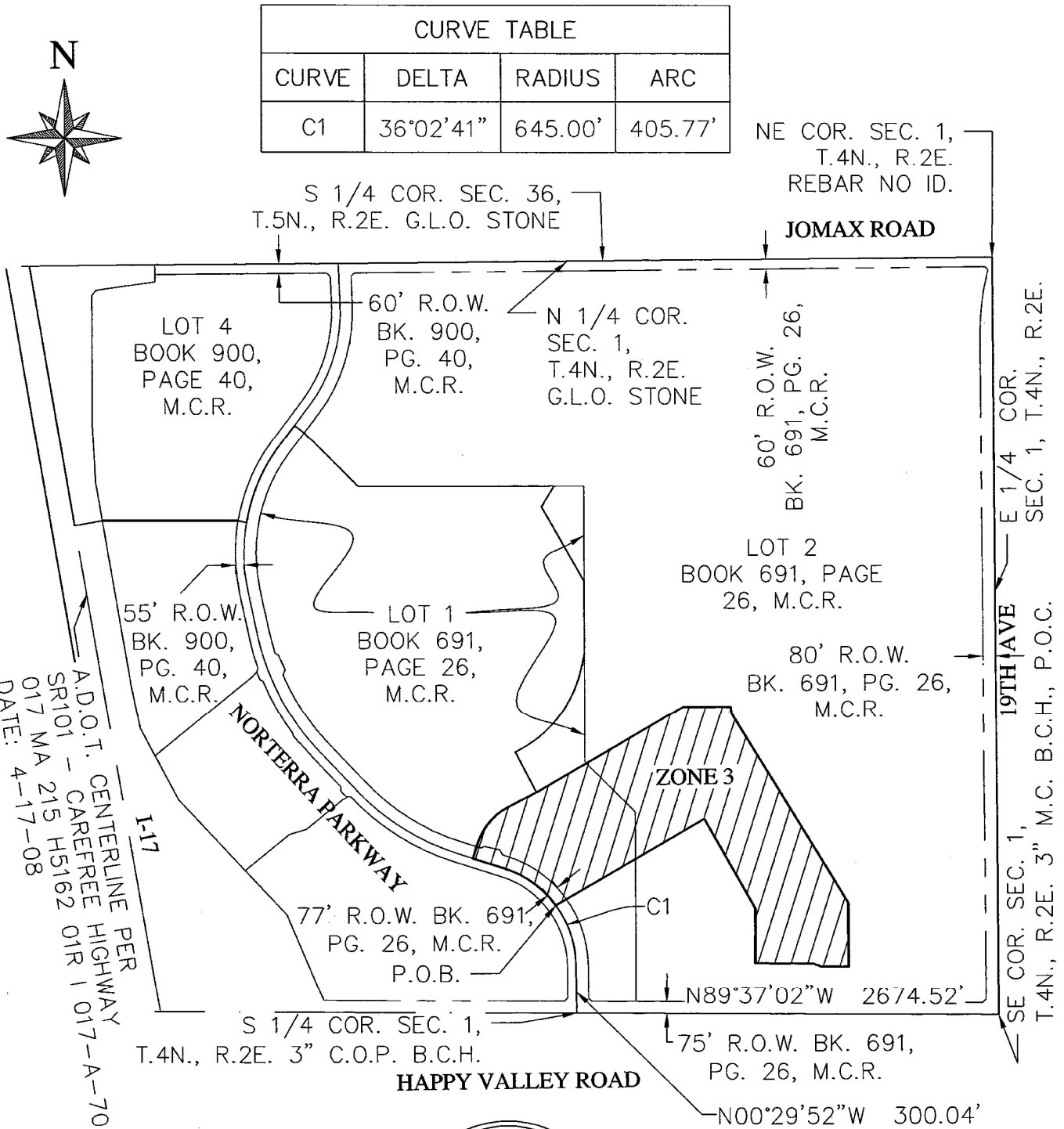
This parcel description is based on said USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of March, 2015. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

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REGISTERED LAND SURVEYOR
 CERTIFICATE NO. 46118
 KATHY M. SVECHOVSKY
 Date Signed 4-30-15
 ARIZONA
 Expires 03-31-16

EXHIBIT "A"
 USAA NORTERRA
 ZONE 3
 04/30/2015
 WP#154308
 PAGE 3 OF 3
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Revised August 7, 2019
Revised July 31, 2015
April 30, 2015
WP# 154308
Page 1 of 4
See Exhibit "A"

PARCEL DESCRIPTION USAA Norterra Zone 4

A portion of Section 1, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said section, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet,

THENCE along the east line of said section, North 00°13'09" West, a distance of 302.00 feet, to the **POINT OF BEGINNING**;

THENCE leaving said east line, North 89°37'02" West, a distance of 947.22 feet;

THENCE North 00°13'09" West, a distance of 398.48 feet;

THENCE North 31°54'29" West, a distance of 1374.09 feet;

THENCE North 23°22'50" West, a distance of 21.82 feet;

THENCE North 06°51'22" West, a distance of 36.73 feet;

THENCE North 90°00'00" West, a distance of 302.37 feet;

THENCE South 60°12'39" West, a distance of 1071.88 feet;

THENCE North 27°39'03" West, a distance of 284.62 feet;

THENCE North 62°20'57" East, a distance of 39.69 feet, to the beginning of a curve;

THENCE northeasterly along said curve to the left, having a radius of 740.00 feet, concave northwesterly, through a central angle of 39°16'33", a distance of 507.26 feet, to the beginning of a compound curve;

THENCE northerly along said compound curve to the left, having a radius of 990.69 feet, concave westerly, through a central angle of 13°56'20", a distance of 241.01 feet, to the easterly line of Lot 1, USAA Amended, recorded in Book 691, page 26, Maricopa County Records, (M.C.R.) and a point of intersection with a non-tangent line;

THENCE along said easterly line, North 00°00'00" East, a distance of 327.93 feet, to the westerly line, USAA Norterra Master Plan Parcel 1, described in Document 2017-0324971, M.C.R., and to a point of intersection with a non-tangent curve;

Exhibit 13

Legal Description

Parcel Description
USAA Norterra
Zone 4

Revised August 7, 2019
Revised July 31, 2015
April 30, 2015
WP# 154308
Page 2 of 4
See Exhibit "A"

THENCE leaving said easterly line, along said westerly line, northerly along said non-tangent curve to the left, having a radius of 1010.83 feet, concave westerly, whose radius bears South 80°29'16" West, through a central angle of 0°03'05", a distance of 0.90 feet, to a point of intersection with a non-tangent curve;

THENCE northerly, along said non-tangent curve to the left, having a radius of 1227.50 feet, concave westerly, whose radius bears South 77°46'50" West, through a central angle of 04°29'32", a distance of 96.24 feet, to a point of intersection with a non-tangent line;

THENCE leaving said westerly line, North 20°35'40" West, a distance of 38.54 feet, to the beginning of a curve;

THENCE northwesterly, along said curve to the left, having a radius of 701.70 feet, concave southwesterly, through a central angle of 14°34'09", a distance of 178.43 feet, to said westerly line;

THENCE along said westerly line, northwesterly along said curve to the left, having a radius of 701.70 feet, concave southwesterly, through a central angle of 23°27'03", a distance of 287.20 feet, to a point of intersection with a non-tangent line;

THENCE continuing along said westerly line and the northeasterly prolongation thereof, North 31°32'17" East, a distance of 691.74 feet;

THENCE leaving said northeasterly prolongation, North 58°27'11" West, a distance of 31.00 feet, to the beginning of a curve;

THENCE westerly along said curve to the left, having a radius of 500.00 feet, concave southerly, through a central angle of 45°03'22", a distance of 393.19 feet, to the curves end;

THENCE South 76°29'27" West, a distance of 199.49 feet, to the beginning of a curve;

THENCE westerly along said curve to the right, having a radius of 750.00 feet, concave northerly, through a central angle of 37°46'29", a distance of 494.47 feet, to the curves end;

THENCE North 65°44'04" West, a distance of 627.46 feet, to the monument line of Norterra Parkway, said USAA Amended, and a point of intersection with a non-tangent curve;

THENCE along said monument line, northerly along said curve to the left, having a radius of 955.00 feet, concave westerly, whose radius bears North 65°44'04" West, through a central angle of 11°56'40", a distance of 199.09 feet, to the south line of the north 500 feet of said section and a point of intersection with a non-tangent line;

THENCE leaving said monument line, along said south line, North 89°26'46" East, a distance of 1689.74 feet;

THENCE continuing along said south line, North 89°25'44" East, a distance of 2467.45 feet, to said east line of said section;

THENCE along said east line, South 00°14'41" East, a distance of 1581.95 feet, to the east quarter corner of said section;

Exhibit 13

Legal Description

Parcel Description
USAA Norterra
Zone 4

Revised August 7, 2019
Revised July 31, 2015
April 30, 2015
WP# 154308
Page 3 of 4
See Exhibit "A"

THENCE continuing along said east line, South 00°13'09" East, a distance of 2342.80 feet, to the **POINT OF BEGINNING**.

Containing 9,036,684 square feet or 207.4537 acres, more or less.

Subject to existing right-of-ways and easements.

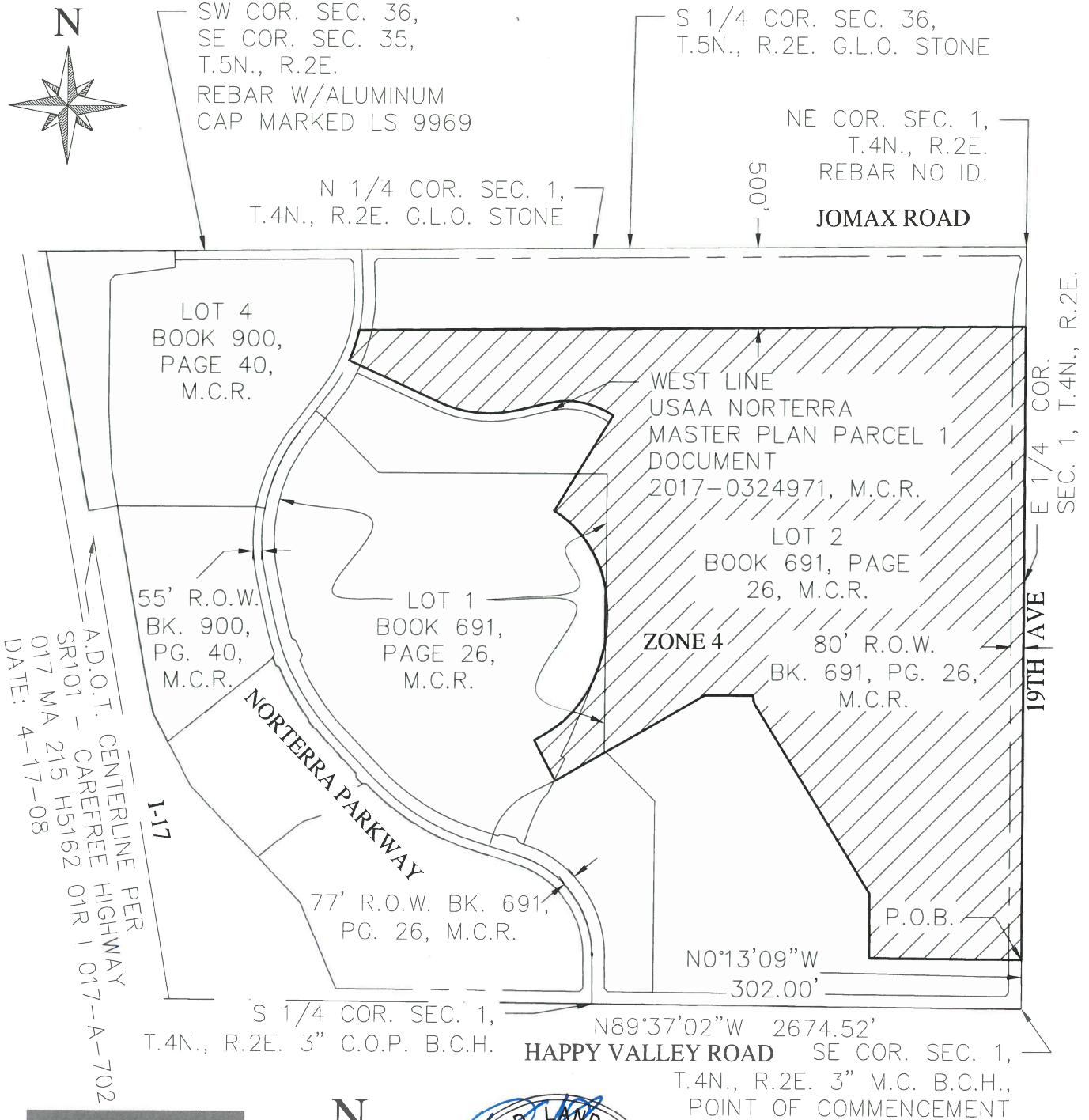
This parcel description is based on said USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of March, 2015. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

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EXPIRES 03-31-22

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EXHIBIT "A"
USAA NORTERRA
ZONE 4
08/07/2019
WP#154308
PAGE 4 OF 4
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April 30, 2015
WP# 154308
Page 1 of 3
See Exhibit "A"

PARCEL DESCRIPTION USAA Norterra Zone 4A

A portion of Lot 2 and Right-of-Way as shown on USAA Amended Final Plat recorded in Book 691, page 26, Maricopa County Records (M.C.R.), lying within Section 1, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said section, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet,
THENCE along the east line of said section, North 00°13'09" West, a distance of 2644.80 feet, to the east quarter corner of said section;
THENCE continuing along said east line, North 00°14'41" West, a distance of 1581.95 feet, to the south line of the north 500 feet of said section and the **POINT OF BEGINNING**;
THENCE leaving said east line, along said south line, South 89°25'44" West, a distance of 2467.45 feet;
THENCE South 89°26'46" West, a distance of 1689.74 feet, to the monument line of Norterra Parkway, as shown on said USAA Amended Final Plat and a point of intersection with a non-tangent curve;
THENCE leaving said south line, along said monument line, northerly along said curve, having a radius of 955.00 feet, concave westerly, whose radius bears North 77°40'44" West, through a central angle of 14°44'12", a distance of 245.63 feet, to the curve's end;
THENCE North 02°24'56" West, a distance of 256.31 feet, to the north line of said section;
THENCE leaving said monument line, along said north line, North 89°26'46" East, a distance of 1674.49 feet, to the south quarter corner of Section 36, Township 5 North, Range 2 East;
THENCE North 89°25'44" East, a distance of 2470.22 feet, to the northeast corner of said Section 1;

Exhibit 13 Legal Description

Parcel Description
USAA Norterra
Zone 4A

April 30, 2015
WP# 154308
Page 2 of 3
See Exhibit "A"

THENCE leaving said north line, along said east line of said Section 1, South 00°14'41" East, a distance of 500.01 feet, to the **POINT OF BEGINNING**.

Containing 47.5244 acres, or 2,070,163 square feet of land, more or less.

Subject to existing rights-of-way and easements.

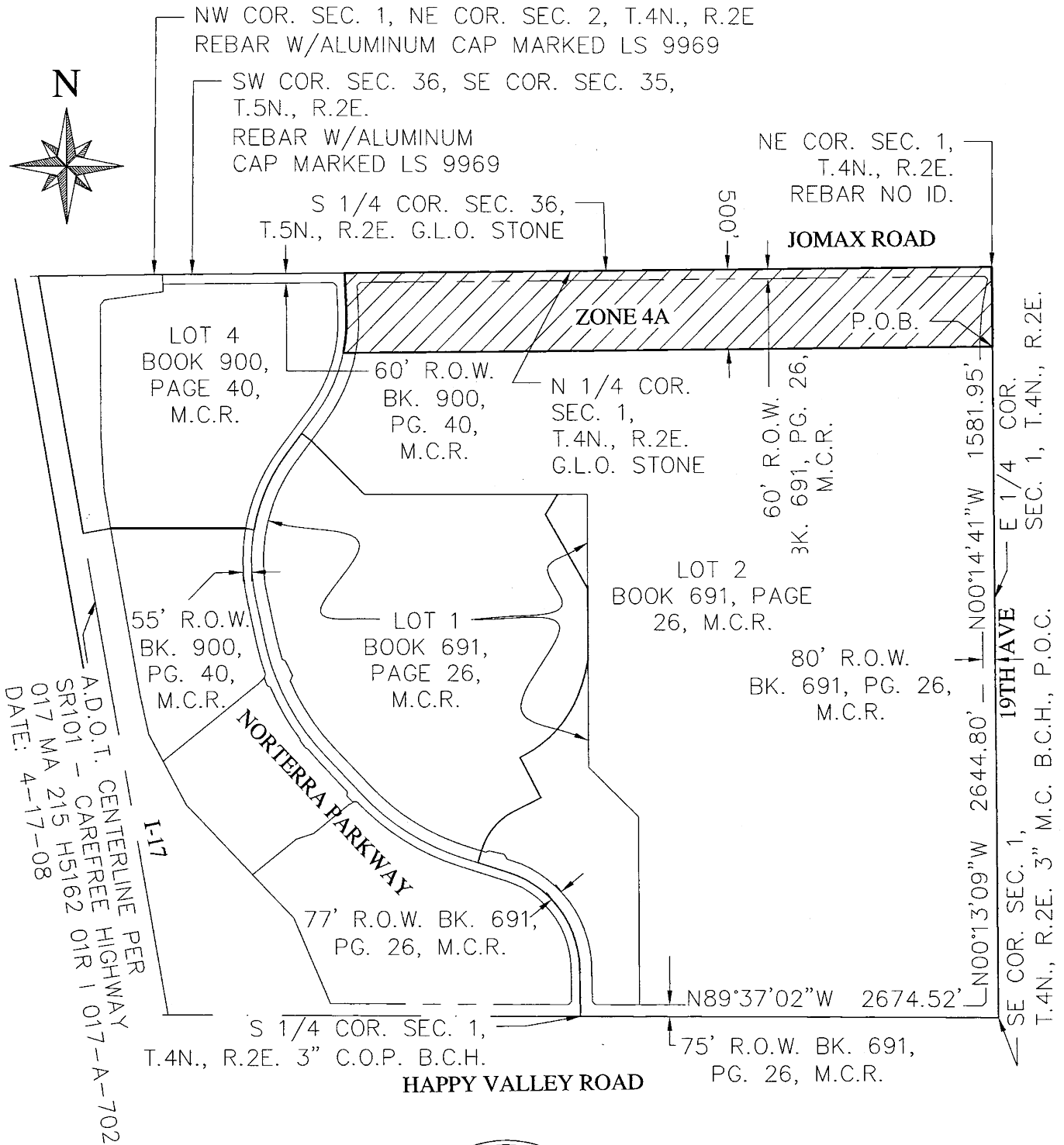
This parcel description is based on said USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of March, 2015. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

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USAA NORTERRA
ZONE 4A
04/30/2015
WP#154308
PAGE 3 OF 3
NOT TO SCALE

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Revised August 7, 2019
April 30, 2015
WP# 154308
Page 1 of 3
See Exhibit "A"

PARCEL DESCRIPTION USAA Norterra Zone 5

A portion of Section 1, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said section, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet,

THENCE along the east line of said section, North 00°13'09" West, a distance of 2644.80 feet, to the east quarter corner of said section;

THENCE continuing along said east line, North 00°14'41" West, a distance of 670.82 feet;

THENCE leaving said east line, South 89°45'19" West, a distance of 2790.23 feet, to the common line of Lots 1 and 2, USAA Amended, recorded in Book 691, page 26, Maricopa County Records (M.C.R.), the westerly line of USAA Norterra Master Plan Parcel 1, described in Document 2017-0324971 M.C.R., and the **POINT OF BEGINNING**;

THENCE leaving said common line, along said westerly line, South 31°32'17" West, a distance of 268.90 feet;

THENCE leaving said westerly line, North 61°21'58" West, a distance of 58.09 feet;

THENCE North 65°05'57" West, a distance of 32.22 feet;

THENCE North 66°54'56" West, a distance of 63.80 feet;

THENCE North 73°59'30" West, a distance of 283.47 feet;

THENCE North 89°59'46" West, a distance of 1362.15 feet, to the monument line of Norterra Parkway, said USAA Amended, and a point of intersection with a non-tangent curve;

THENCE along said monument line, northeasterly along said non-tangent curve to the right, having a radius of 1100.00 feet, whose radius bears South 72°25'36" East, through a central angle of 19°48'23", a distance of 380.26 feet, to curves end;

THENCE North 37°22'47" East, a distance of 320.83 feet, to the beginning of a curve;

THENCE northeasterly along said curve to the left, having a radius of 955.00 feet, concave northwesterly, through a central angle of 13°06'51", a distance of 218.59 feet, to a point of intersection with a non-tangent line;

THENCE leaving said monument line, South 65°44'04" East, a distance of 627.46 feet, to the beginning of a curve;

THENCE easterly along said curve to the left, having a radius of 750.00 feet, concave northerly, through a central angle of 37°46'29", a distance of 494.47 feet, to curves end;

THENCE North 76°29'27" East, a distance of 199.49, to the beginning of a curve;

Exhibit 13
Legal Description

Parcel Description
USAA Norterra
Zone 5

Revised August 7, 2019
April 30, 2015
WP# 154308
Page 2 of 3
See Exhibit "A"

THENCE easterly along said curve to the right, having a radius of 500.00 feet, concave southerly, through a central angle of 45°03'22", a distance of 393.19 feet, to the curves end;
THENCE South 58°27'11" East, a distance of 31.00 feet, to the northerly prolongation of said westerly line;
THENCE along said northerly prolongation and said westerly line, South 31°32'17" West, a distance of 422.84 feet, to the **POINT OF BEGINNING**.

Containing 1,073,572 square feet or 24.6458 acres, more or less.

Subject to existing right-of-ways and easements.

This parcel description is based on said USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of March, 2015. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

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EXPIRES 03-31-22

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Legal Description



NE COR. SEC. 1,
T.4N., R.2E.
REBAR NO ID.

JOMAX ROAD

LOT 4
BOOK 900,
PAGE 40,
M.C.R.

ZONE 5

POINT OF BEGINNING
S89°45'19"W 2790.23'
(TIE)

N00°14'41"W 670.82'

55' R.O.W.
BK. 900,
PG. 40,
M.C.R.

LOT 1
BOOK 691,
PAGE 26,
M.C.R.

WEST LINE
USAA NORTERRA
MASTER PLAN PARCEL 1
DOCUMENT
2017-0324971, M.C.R.

E 1/4 COR.
SEC. 1, T.4N., R.2E.
3" C.O.P. BRASS
CAP FLUSH

A.D.O.T. CENTERLINE PER
SR101 - CAREFREE HIGHWAY
017 MA 215 H5162 01R 1 017-A-702
DATE: 4-17-08

NORTERRA PARKWAY

77' R.O.W. BK. 691,
PG. 26, M.C.R.

LOT 2
BOOK 691, PAGE
26, M.C.R.

S 1/4 COR. SEC. 1,
T.4N., R.2E. 3" C.O.P. B.C.H.

N89°37'02"W 2674.52'

HAPPY VALLEY ROAD

SE COR. SEC. 1,
T.4N., R.2E. 3" M.C. B.C.H.
POINT OF COMMENCEMENT

19TH AVE
N00°13'09"W 2644.80'

**WOOD
PATEL**



EXHIBIT "A"
USAA NORTERRA
ZONE 5
08/07/2019
WP#154308
PAGE 3 OF 3
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EXPIRES 03-31-22

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Revised July 22, 2015
April 30, 2015
WP# 154308
Page 1 of 3
See Exhibit "A"

PARCEL DESCRIPTION USAA Norterra Zone 6

A portion of Right-of-Way and Lot 4 as shown on USAA Unit 1 Final Plat recorded in Book 900, page 40, Maricopa County Records (M.C.R.), and portions of Section 1 and Section 2, Township 4 North Range 2 East, all lying within Section 1 and Section 2, Township 4 North, Range 2 East, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the southeast corner of said Section 1, a 3-inch Maricopa County (M.C.) brass cap in handhole (B.C.H.), from which the south quarter corner of said Section 1, a 3-inch City of Phoenix (C.O.P.) brass cap in handhole, bears North 89°37'02" West (basis of bearing), a distance of 2674.52 feet, **THENCE** along the east line of said Section 1, North 00°13'09" West, a distance of 2644.80 feet, to the east quarter corner of said Section 1;
THENCE continuing along said east line, North 00°14'41" West, a distance of 2081.96 feet, to the northeast corner of said Section 1;
THENCE leaving said east line, along the north line of said Section 1, also being the south line of Section 36, Township 5 North, Range 2 East, South 89°25'44" West, a distance of 2470.22 feet, to the south quarter corner of said Section 36;
THENCE continuing along said north line and said south line, South 89°26'46" West, a distance of 1674.49 feet, to the monument line of Norterra Parkway, as shown on said USAA Unit 1 Final Plat and the **POINT OF BEGINNING**;
THENCE leaving said north line and said south line, along said monument line, South 02°24'56" East, a distance of 256.31 feet, to the beginning of a curve;
THENCE southerly along said curve, having a radius of 955.00 feet, concave westerly, through a central angle of 39°47'43", a distance of 663.30 feet, to the curve's end;
THENCE South 37°22'47" West, a distance of 320.83 feet, to the beginning of a curve;
THENCE southwesterly along said curve, having a radius of 1100.00 feet, concave southeasterly, through a central angle of 27°16'35", a distance of 523.67 feet, to a point of intersection with a non-tangent line;
THENCE leaving said monument line, North 79°53'48" West, a distance of 55.00 feet, to the southeast corner of said Lot 4;
THENCE along the southerly line of said Lot 4, North 90°00'00" West, a distance of 865.48 feet, to the southwest corner of said Lot 4;
THENCE leaving said southerly line, South 80°00'27" West, a distance of 25.00 feet, to a line parallel with and 25 feet westerly of the west line of said Lot 4;
THENCE along said parallel line, North 09°59'33" West, a distance of 239.89 feet;
THENCE North 03°20'16" West, a distance of 360.07 feet;
THENCE North 00°00'22" East, a distance of 813.73 feet;
THENCE North 41°11'36" East, a distance of 60.13 feet;

Exhibit 13 Legal Description

Parcel Description
USAA Norterra
Zone 6

Revised July 22, 2015
April 30, 2015
WP# 154308
Page 2 of 3
See Exhibit "A"

THENCE North 82°12'31" East, a distance of 366.73 feet;
THENCE North 00°43'06" West, a distance of 84.05 feet, to the north line of said Section 1;
THENCE leaving said parallel line, along said north line, North 89°16'54" East, a distance of 214.28 feet, to the southwest corner of said Section 36;
THENCE continuing along said north line and said south line of said Section 36, North 89°26'46" East, a distance of 978.75 feet, to the **POINT OF BEGINNING**.

Containing 49.1520 acres, or 2,141,060 square feet of land, more or less.

Subject to existing rights-of-way and easements.

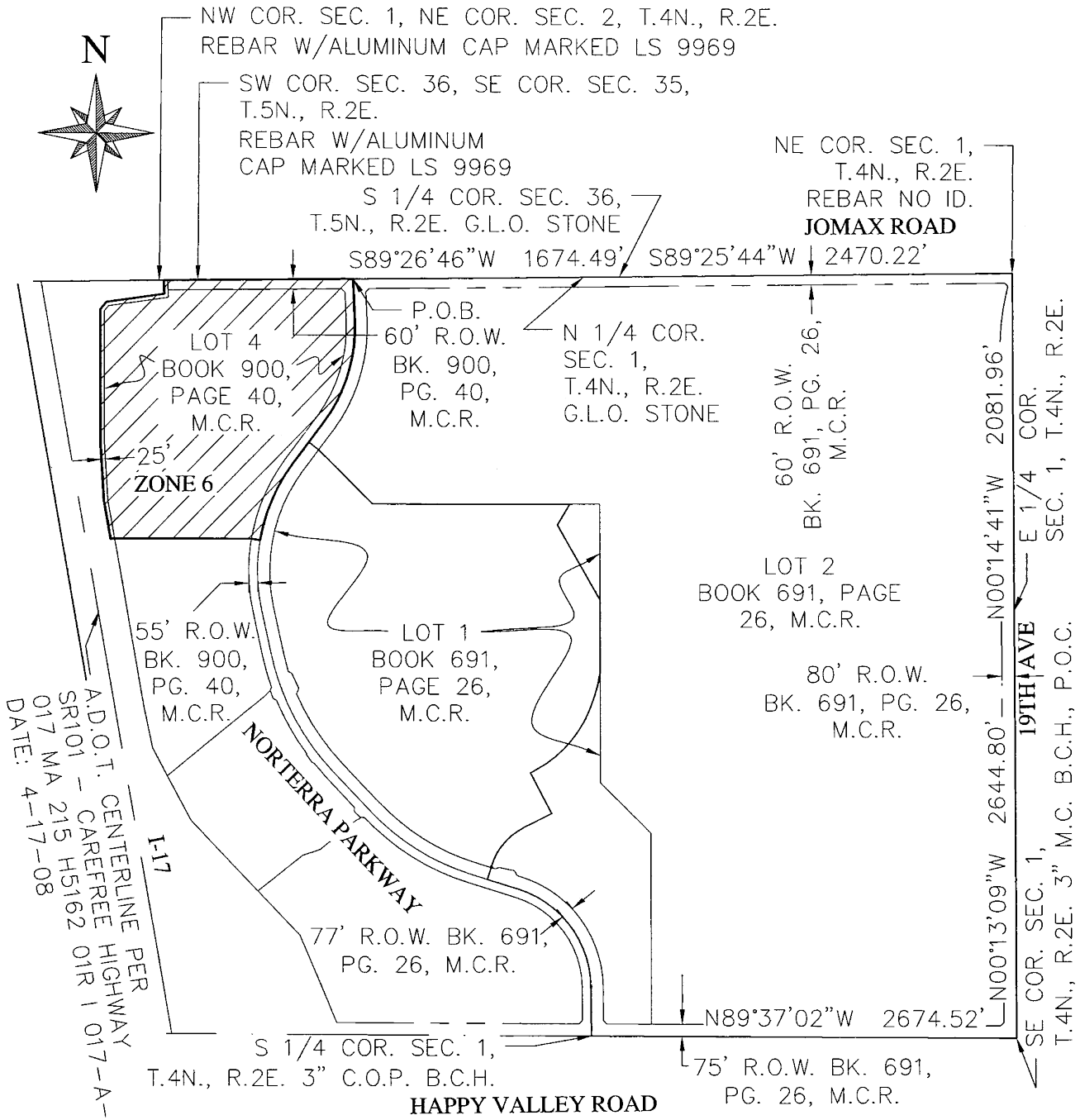
This parcel description is based on USAA Amended Final Plat, recorded in Book 691, page 26, M.C.R. and other client provided information. This parcel description is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of March, 2015. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

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Kathy M. Svechovsky
Date Signed: 7-23-15
ARIZONA

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USAA NORTERRA
ZONE 6
REVISED 07/22/15
WP#154308
PAGE 3 OF 3
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EXPIRES 03-31-16

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American Southwest Desert Plant List

Trees	
Botanical Name	Common Name
<i>Acacia berlandieri</i>	Guajillo Acacia
<i>Acacia farnesiana</i>	Sweet Acacia
<i>Acacia shaffneri</i>	Twisted Acacia
<i>Acacia stenophylla</i>	Shoestring Acacia
<i>Acacia willardiana</i>	Palo Blanco
<i>Bauhinia congesta</i>	Anacacho Orchid Treet
<i>Cercidium floridum</i>	Blue Palo Verde
<i>Cercidium microphyllum</i>	Foothill Palo Verde
<i>Cercidium praecox</i>	Palo Brea
<i>Chilopsis linearis</i>	Desert Willow
<i>Leucaena retusa</i>	Golden Ball Lead Tree
<i>Lysiloma candida</i>	Palo Blanco
<i>Lysiloma microphylla</i>	Desert Fern (var. <i>thornberi</i>)
<i>Olneya tesota</i>	Ironwood
<i>Pithecellobium flexicaule</i>	Texas Ebony
<i>Pithecellobium mexicanum</i>	Palo Chino
<i>Prosopis pubescens</i>	Screwbean Mesquite
<i>Prosopis torreyana</i>	Texas Mesquite
<i>Prosopis velutina</i>	Honey Mesquite (<i>juliflora</i>)
<i>Sophora secundiflora</i>	Mescal Bean
<i>Ungnadia speciosa</i>	Mexican buckeye

Shrubs	
<i>Atriplex hymenelytra</i>	Desert Holly
<i>Atriplex nummularia</i>	Old Man Saltbush
<i>Baccharis sarothroides</i> (male only)	Desert Broom (male only)
<i>Berberis haematocarpa</i>	Red Barberry
<i>Buddleia marrubifolia</i>	Wooly Butterfly Bush
<i>Caesalpinia gilliesii</i>	Desert Bird of Paradise
<i>Calliandra californica</i>	Baja Red Fairy Duster
<i>Calliandra eriophylla</i>	Fairy Duster
<i>Calliandra peninsularis</i>	Baja Red Fairy Duster
<i>Canotia holacantha</i>	Crucifixion Thorn
<i>Cassia biflora</i>	Twin Flower Cassia
<i>Cassia wislizenii</i>	Shrubby Cassia
<i>Celtis pallida</i>	Desert Hackberry
<i>Cordia boissieri</i>	Anacahuita
<i>Cordia parvifolia</i>	Little Leaf Cordia
<i>Dalea bicolor</i> (var. <i>argyrea</i>)	Silver Dalea
<i>Dalea frutescens</i>	Black Dalea
<i>Dalea pulchra</i>	Indigo Bush
<i>Dalea versicolor</i> (var. <i>sessilis</i>)	Wislizenus Dalea
<i>Dodonaea viscosa</i>	Hopbush (Green variety)
<i>Encelia farinosa</i>	Brittlebush
<i>Ephedra nevadensis</i>	Boundary Ephedra (var. <i>aspera</i>)
<i>Ephedra trifurca</i>	Mormon Tea
<i>Ericameria laricifolia</i>	Turpentine Bush
<i>Eriogonum fasciculatum</i>	Flattop Buckwheat
<i>Erythrina flabelliformis</i>	Southwest Coralbean
<i>Euphorbia antisiphilitica</i>	Candelilla
<i>Fouquieria splendens</i>	Ocotillo
<i>Gutierrezia microcephala</i>	Snakeweed
<i>Hyptis emoryi</i>	Desert Lavender
<i>Justicia californica</i>	Chuparosa
<i>Justicia candidans</i>	Red Justicia
<i>Justicia sonora</i>	Palm Canyon Justicia
<i>Justicia spicigera</i>	Mexican Honeysuckle
<i>Krameria Grayi</i>	White Ratany
<i>Krameria parvifolia</i>	Ratany
<i>Larrea tridentata</i>	Creosote Bush
<i>Leucophyllum candidum</i>	Silver Sage
<i>Leucophyllum frutescens</i>	Texas Sage
<i>Leucophyllum laevigatum</i>	Chihuahuan Sage

Shrubs	
Botanical Name	Common Name
<i>Acacia constricta</i>	White Thorn Acacia
<i>Acacia gratissima</i>	Bee Bush
<i>Acacia greggii</i>	Cat Claw Acacia
<i>Aloysia lyciodes</i>	Bee Bush
<i>Aloysia macrostachya</i>	Sweet Stem
<i>Ambrosia ambrosoides</i>	Canyon Ragweed
<i>Ambrosia deltoidea</i>	Triangle Leaf Bur Sage
<i>Anisacanthus andersonii</i>	Anderson's Honeysuckle
<i>Anisacanthus quadrifidus</i>	Flame Honeysuckle
<i>Anisacanthus thurberi</i>	Desert Honeysuckle
<i>Artemisia ludoviciana</i>	White Sage
<i>Asclepias subulata</i>	Desert Milkweed
<i>Atriplex canescens</i>	Fourwing Saltbush
<i>Atriplex hymenelytra</i>	Desert Holly
<i>Atriplex nummularia</i>	Old Man Saltbush

Appendix A.

American Southwest Desert Plant List

Shrubs	
Leucophyllum langmaniae	Sierra Madre Sage
Leucophyllum pruinatum	Fragrant Sage
Leucophyllum revolutum	
Leucophyllum zygophyllum	Blue Ranger
Lycium berlandieri	Wolfberry
Lycium ferontii	Tomatillo
Mimosa biuncifera	Wait-a-Minute Bush
Mimosa dysocarpa	Velvet Pod Mimosa
Psilotrophe cooperii	Paper Flower
Rhus microphylla	Desert Sumac
Rhus ovata	Sugarbush
Rhus trilobata	Skunkbush
Rhus virens	Evergreen Sumac
Ruellia brittoniana	Britton's Ruellia
Ruellia californica	Ruellia
Ruellia peninsularis	Blue Sage
Salvia chamaedryoides	Chapparal Sage
Salvia clevelandii	Autumn Sage
Salvia greggii	Mealy Cup Sage
Salvia leucophylla	Desert Sage
Salvia dorrii	Willow-Leaf Groundsel
Tecoma Stans	Yellowbells
Trixis californica	Trixis
Vauquelinia corymbosa	Narrow-Leaf Rosewood
Vauquelinia californica	Arizona Rosewood
Viguiera deltoidea	Golden Eye
Zizphus obtusifolia (var. canescens)	Greythom

Cacti & Succulents	
Botanical Name	Common Name
Agave spp. - Sample Listing	
Agave colorata	Mescal Ceniza
Agave parryi	Parry's Agave
Agave victoriae-reginae	Royal Agave
Agave vilmoriniana	Octopus Agave
Agave murpheyi	Murphy's Agave
Listing	
Aloebarbadensis	Medicinal Aloe
Aloe ferox	Tree Aloe
Aloe saponaria	Tiger Aloe
Aloe mariothii	Tree Aloe
Aloe striata	Coral Aloe
Cactaceae - Sample Listing	
Carnegiea gigantea	Saguaro
Dasyliion acrotiche	Green Desert Spoon
Dasyliion wheeleri	Sotol, Desert Spoon
Echinocereus fasciculatus	Hedgehog Cactus
Echinocereus grusonii	Golden Barrel
Ferocactus acanthodes	Compass Barrel
Ferocactus wislizenii	Fishhook Barrel
Hesperaloe funifera	
Hesperaloe parviflora	Red Hesperaloe
Lophocereus schottii	Senita
Mamillaria microcarpa	Fishhook Pincushion
Nolina mataeensis	Tree Bear Grass
Nolina microcarpa	Bear Grass
Opuntia acanthocarpa	Buckhorn Cholla
Opuntia basilaris	Beavertail Prickly Pear
Opuntia bigelovii	Teddy Bear Cholla
Opuntia engelmannii	Engelmann's Prickly Pear
Opuntia fulgida	Chain Fruit Cholla
Opuntia leptocaulis	Desert Christmas Cholla
Opuntia violacea	Purple Prickly Pear
Pachycereus marginatus	Mexican Organ Pipe
Stenocereus thurberi	Arizona Organ Pipe
Yucca baccata	Banana Yucca
Yucca brevifolia	Joshua Tree
Yucca elata	Soaptree Yucca
Yucca rigida	Blue Yucca
Yucca rostrata	Beaked Yucca

Groundcovers	
Botanical Name	Common Name
Atriplex semibaccata	Saltbush
Baccharis (Centennial)	Centennial Baccharis
Dalea Greggii	Indigo Bush
Oenothera berlandieri	Mexican Evening Primrose
Oenothera caespitosa	Trailing Evening Primrose
Oenothera stubbei	Salttillo Primrose
Verbena bipinnatifida	Verbena
Verbena goodingii	Gooding's Verbena
Verbena tenera	Moss Verbena

American Southwest Desert Plant List

Perennial Wildflowers	
Botanical Name	Common Name
Allionia incarnata	Trailing Windmills
Argemone platyceras	Prickly Poppy
Baileya multiradiata	Desert Marigold
Delphinium amabile	Larkspur
Dichelostemma pulchellum	Bluesticks
Dyssodia pentachaeta	Dyssodia
Erigeron divergens	Spreading Fleabane
Lotus rigidus	Desert Rock Pea
Melampodium leucanthum	Blackfoot Daisy
Penstemon baccharifolius	Rock Penstemon
Penstemon harbatus	Scarlet Penstemon
Penstemon eatonii	Firecracker Penstemon
Penstemon palmeri	Palmer's Penstemon
Penstemon parryii	Parry's Penstemon
Penstemon spectabilis	Royal Penstemon
Penstemon superbus	Superb Penstemon
Ratibia columnaris	Mexican Hat, Coneflower
Senna covesii (Cassia)	Desert Senna
Sphaeralcea ambigua	Globe-Mallow
Tagetes lemonii	Mount Lemon Marigold
Zinnia acerosa	Desert Zinnia
Zinnia grandiflora	Rocky Mountain Zinnia

Grasses	
Botanical Name	Common Name
Aristida purpurea	Purple Three-Awn
Hilaria rigida	Big Galeta
Muhlenbergia dumosa	Giant Muhly
Muhlenbergia porteri	Bush Muhly
Muhlenbergia rigens	Deer Grass
Trichachne californica	Cotton-Top

Annual Wildflowers	
Botanical Name	Common Name
Argemone pleiacantha	Prickly Poppy
Eschscholzia mexicana	Mexican Gold Poppy
Gaillardia pulchella	Firewheel
Kallstroemia grandiflora	Arizona Poppy
Layia platyglossa	Tidy Tips
Lesquerella gordonii	Yellow Blanket
Lupinus arizonicus	Arizona Lupine
Lupinus sparsiflorus	Desert Lupine
Orthocarpus purpuracens	Owl's Clover
Pectis papposa	Chinch Weed
Phacelia campaularia	California Blue Bell
Plantago insularis	Indian Wheat
Salvia Columbariae	Chia

Appendix B.

Enhanced Desert Plant List

Shrubs	
Botanical Name	Common Name
<i>Ambrosia deltoidea</i>	Bursage
<i>Anisacanthus quadrifidus</i>	Mountain Flame
<i>Anisacanthus thurberi</i>	Desert Honeysuckle
<i>Baccharis 'Starn' Thompson</i>	Dwarf Coyote
<i>Bougainvillea species</i>	Bush Bougainvillea
<i>Caesalpinia gilliesii</i>	Yellow Bird of Paradise
<i>Caesalpinia pulcherrima</i>	Red Bird of Paradise
<i>Calliandra eriophylla</i>	Pink Fairy Duster
<i>Carissa grandiflora</i>	Natal Plum
<i>Dalea frutescens</i>	Black Dalea
<i>Dalea pulchra</i>	Indigo Bush
<i>Dietes bicoior</i>	Fortnight Lily
<i>Dodonaea viscosa</i>	Hopbush
<i>Encelia farinosa</i>	Brittlebush
<i>Eremophila glabra</i>	Winter Blaze
<i>Eremophila hygrophana</i>	Blue Bells
<i>Eremophila laanii 'Pink Beauty'</i>	Emu Bush
<i>Eremophila maculata</i>	Valentine
<i>Ericameria laricifolia</i>	Turpentine Bush
<i>Justicia californica</i>	Chuparosa
<i>Justicia spicigera</i>	Mexican Honeysuckle
<i>Lantana species</i>	Bush Lantana
<i>Larrea tridentata</i>	Creosote Bush
<i>Leucophyllum species</i>	Sage Varieties
<i>Myrtus communis</i>	True Myrtle
<i>Nerium oleander varieties</i>	Oleander
<i>Penstemon species</i>	Penstemon
<i>Rosmarinus officinalis</i>	Upright Rosemary
<i>Ruellia species</i>	Ruellia
<i>Russelia equisetiformis</i>	Coral Fountain
<i>Senna obligata (Cassia o.)</i>	Outback Cassia
<i>Simmondsia chinensis</i>	Jojoba
<i>Sophora species</i>	Texas Mountain Laurel
<i>Tecoma stans</i>	Yellow Bells
<i>Tecomaria capensis</i>	Cape Honeysuckle

Groundcovers	
Botanical Name	Common Name
<i>Acacia redolens</i>	Desert Carpet
<i>Chrysactinia mexicana</i>	Damianita
<i>Convolvulus cneorum</i>	Bush Morning Glory
<i>Dalea capitata 'Sierra Gold' TM</i>	Sierra Gold Dalea
<i>Eremophila prostrata</i>	Outback Sunrise
<i>Euphorbia antisiphilitica</i>	Candelilla
<i>Gazania rigens 'Sun Gold'</i>	Gazania
<i>Lantana species</i>	Trailing Lantana
<i>Oenothera caespitosa</i>	Evening Primrose
<i>Oenothera speciosa (O. berlandieri)</i>	Mexican Evening Primrose
<i>Rosmarinus officinalis</i>	Huntington Carpet Trailing Rosemary
<i>Rosmarinus officinalis 'Prostrate'</i>	Prostrate Rosemary
<i>Sphagneticola trilobata (Wedella t.)</i>	Yellow Dot
<i>Tetranneuris acaulis (Hymenoxys a.)</i>	Angelita Daisy
<i>Teucrium chamaedrys</i>	Germander
<i>Thymophylla pentachaeta</i>	Golden Dyssochia
<i>Burmuda Turf</i>	Turf Species

Appendix B. Enhanced Desert Plant List

Trees	
Botanical Name	Common Name
Acacia aneura	Mulga
Acacia salicina	Willow Acacia
Bauhinia species	Orchid Tree
Caesalpinia cacalaco	Cascalole
Chilopsis linearis	Desert Willow
Chitalpa tashkinensis hybrid	Chitalpa
Citrus species	Citrus
Cupressus sempervirens	Italian Cypress
Dalbergia sissoo	Sissoo
Eucalyptus papuana	Ghost Gum
Ficus microcarpa nilida	Compact Indian Laurel Fig
Fraxinus velutina 'Fantex'	Fantex Ash
Jacaranda mimosifolia	Jacaranda
Olea europaea (non-fruiting)	Fruitless Olive (S, Hill, Wilson)
Olneya tesota	Desert Ironwood
Parkinsonia floridum	Blue Palo Verde
Parkinsonia hybrid	Desert Museum
Parkinsonia praecox	Palo Brea
Phoenix dactylifera	Date Palm
Pistacia hybrid	Red Push Pistache
Prosopis species	Mesquite
Pyrus calleryana 'Bradford'	Bradford Pear
Quercus virginiana 'Heritage'	Heritage or other varieties
Ulmus parvifolia	Evergreen Elm
Washingtonia filifera	California Fan Palm

Accents	
Botanical Name	Common Name
Agave species	Agave
Aloe species	Aloe Varieties
Asclepias subulata	Desert Milkweed
Carnegiea gigantea	Saguaro
Cereus species	Cereus varieties
Chamaerops humilis	Mediterranean Fan Palm
Dasyliroton acrotriche	Green Desert Spoon
Echinocactus grusonii	Golden Barrel Cactus
Euphorbia rigida	Gopher Plant
Fouquieria splendens	Ocolillo
Hesperaloe funifera	Giant Hesperaloe
Hesperaloe parviflora	Red or Yellow Yucca
Nolina species	Bear grass
Opuntia bigelovii	Teddybear Cholla
Opuntia engelmannii	Engelmann's Prickly Pear
Opuntia ficus-Indica	Indian Fig Prickly Pear
Pachycereus marginatus	Mexican Organ Pipe
Pedilanthus macrocarpus	Lady Slipper
Stenocereus marginatus	Mexican Fence Post
Yucca species	Yucca (non-native species)

Grasses	
Botanical Name	Common Name
Bouteloua gracilis	Blue Grama
Muhlenbergia capillaris 'Regal Mist'	Muhly Grass
Muhlenbergia rigens	Deer Grass
Muhlenbergia rigida	Purple Muhly
Muhlenbergia rigida 'Nashville'	Nashville Grass

