

4/12/23

Kurt Waldier Beus Gilbert McGroder (Paul Gilbert) 701 N 44th St Phoenix, AZ 85008

RE: 1-ZN-2023 and 1-GP-2023 6C692 (Key Code) and 98T77 (Keycode) Pinnacle Peak Doggy Daycare

Planning & Development Services has completed review of the above referenced development application. The following comments represent issues or deficiencies identified by the review team and are intended to provide you with guidance for compliance with city codes, policies, and guidelines.

Significant Zoning Ordinance or Scottsdale Revise Code Issues

The following code and ordinance related issues have been identified and must be addressed with the resubmittal. Addressing these items is critical to determining the application for public hearing and may affect staff's recommendation. Please address the following:

Current Planning, Katie Posler, 380 312-2703, kposler@scottsdaleaz.gov:

 Per pre application comments and the ESL Overlay, the 223 CFS wash should be left undisturbed and protected by the existing 50' drainage easement and proposed NAOS easement. The intent of ESL to is to protect, maintain, and keep large washes (over 50 cfs) in place wherever possible. NAOS easements should preserve significant environmental features on the property, which is the wash.

Please revise the site plan accordingly to move all improvements and construction (site walls, ret. walls, building footprint, grading) outside the existing 50' drainage easements along both street frontages. Along the west portion of E. Pinnacle Peak Road, the 50' drainage easement is maintained. This site should continue that corridor and public benefit. Wash preservation is a key item in staff's reports.

Additionally, modifying a wash 50 cfs or larger requires a separate case submittal and review, called a wash modification (WM) case.

- 2. Why is the LF so high on this site? Looks like a decent amount of fill (around 5'). Is this due to the flood zone designation? The intent of the ESL Overlay is to fill as little as possible and only what is necessary for drainage purposes. Please reduce the fill proposed.
- 3. Drainage structures, facilities, and rip rap (buried or otherwise) are not permitted in NAOS easements. Revise plans accordingly.

- 4. The NAOS slope analysis is not an average value. Provide a slope analysis that breaks the entire lot into the various categories that are appliable. Please see the attached example and revise plans.
- 5. Grading in NAOS and PUEs are considered NAOS reveg or disturbed NAOS. Only 30% of the total required NAOS SF can be reveg NAOS. Revise the NAOS slope plan, site plan, and G&D to show reveg (disturbed) NAOS and undisturbed NAOS with different hatching. On the NAOS plan, list the NAOS required NAOS SF, NAOS provided SF, reveg NAOS SF allowed, reveg NAOS SF proposed, and undisturbed NAOS SF proposed.
- 6. Revise the landscape plan to show grading and reveg NAOS. Reveg NAOS areas need to be replanted with indigenous plants to bring those areas back to a natural state.
- 7. Open space located behind a site wall/fence taller than 3' cannot be considered frontage open space, it would just be common open space, please revise the open space plan accordingly.
- 8. If a parking lot contains more than twenty (20) parking spaces, then a minimum of one-third (¹/₃) of the required parking lot landscape area shall be in landscape islands distributed within the parking lot area, rather than on the perimeter of the parking lot. These landscape areas shall have a minimum width of seven (7) feet and a minimum area of one hundred twenty (120) square feet. All landscape areas shall be planted, irrigated, and maintained as prescribed herein. Please address this calculation on the open space plan.
- 9. Please revise the site plan to park the entire building SF (office and kennel) under the Veterinary services land use (One (1) space per three hundred (300) square feet gross floor area.)
- Please provide a roof over topography showing building height above natural grade per the ESL Overlay requirements, here is an example: <u>Roof Height Analysis Example.pdf (scottsdaleaz.gov)</u>. Maximum building height allowance is 36 feet above existing natural grade.

Long Range Planning, Ben Moriarity, 480-312-2636, bmoriarity@scottsdaleaz.gov:

General Plan 2035

- 11. The existing and proposed General Plan Land Use graphic provided with the 1st Submittal depicts the Conceptual Land Use Map within the 2001 General Plan. With a resubmittal, remove and replace the graphic with one that depicts the existing and proposed General Plan Land Use designations specific to the Future Land Use Map on page 60 of the General Plan 2035 document that was ratified in November of 2021. The existing land use should be depicted in light gray as "Employment: Office". Please clearly label the "Site" on both the existing and proposed General Plan Land Use Map graphics 1 and 2 as well.
- 12. Please include the Scottsdale General Plan 2035 definition of Commercial within the narrative as well as a discussion as to how the proposal implements the definition.
- 13. The first submittal shows encroachments into the 50' wide drainage easement along Pinnacle Peak Road, the 50' easement should be upheld, and a Scenic Corridor Easement added on top of the drainage easement along Pinnacle Peak. As per the Scottsdale General Plan 2035 Open Space Element (Policy OS 4.3), Pinnacle Peak is a Desert Scenic Roadway. With a resubmittal, please update the narrative as well as the site plan to notate the Desert Scenic Roadway 50' buffer.

- 14. The Scottsdale General Plan 2035 Sustainability & Environment Element (Goal CONSV 5) emphasizes the preservation of flood plains and washes. The proposed site plan appears to greater restrict the wash protected within the existing drainage easement along the East Pinnacle Peak Road and North Los Portones Drive frontages. Please revise the narrative and site plan in response to this goal.
- 15. If further outreach has been conducted since the original submittal, and as a response to Goal Cl 1 of the Community Involvement Element as well as Policy LU 3.5 of the Land Use Element, with a resubmittal, please provide an updated Citizen Involvement Report that describes the key issues that have been identified through the public involvement process.

Design Review, Brad Carr, 480-312-7713, bcarr@scottsdaleaz.gov:

- 16. Please provide an NAOS open space plan that delineated all the required NAOS calculations, and provide disturbed and undisturbed NAOS square footages on the revised plan.
- 17. Please note that all plants utilized shall be selected from the ESLO plant list.
- 18. All exterior luminaires in the ESL area shall have an integral lighting shield and shall be directed downward, including landscape lighting. (Table 7.602.A.2. of the Zoning Ordinance.)
- 19. No lighting shall be permitted in dedicated NAOS easements. (City of Scottsdale Exterior Lighting Policy, and DSPM)

Fire, Scott Stanek, 480-312-7061, sstanek@scottsdaleaz.gov:

- 20. Demonstrate Hydrant spacing, existing and proposed (Fire Ord. 4283, 507.5.1.2)
- 21. See Fire Department Connection locations (I's & A's 8.17.2.4.6.1)
- 22. See Interior fire riser locations (I's & A's 8.16.1.1.7.2)
- 23. See Backflow prevention location (I's & A's 8.17.4.5.1)

Significant Policy Issues

The following policy related issues have been identified. Though these issues may not be as critical to determining the application for public hearing, they may affect staff's recommendation and should be addressed with the resubmittal. Please address the following:

Current Planning, Katie Posler, 380 312-2703, kposler@scottsdaleaz.gov:

- 24. Per pre application comments and DS&PM, extend the existing sidewalk along N. Los Portones Drive to the building entrance.
- 25. Per pre application comments, please remove the interior planter island from the site plan, it causes issues with circulation.
- 26. The proposed retaining wall should match the location, materials, and colors of the retaining wall on the properties to the west. Any new fencing/site walls on top of the retained dirt should be terraced or pushed further into the site to not create a tall wall face per DSPM. The project elevations and perspectives should account for retaining walls, site walls, and topography along the street frontages.

Transportation, Phil Kercher, 480-312-7645, pkercher@scottsdaleaz.gov:

 Provide a sidewalk connection, 6 feet wide, from the site building to Los Portones Drive. DSPM 2.1-310

Engineering, Eliana Hayes, 480-312-2757, ehayes@scottsdaleaz.gov:

- 28. DSPM 2-1.309 REFUSE COLLECTION: Due to the use of non-perpendicular angles to existing drive aisle, please rotate proposed refuse enclosure 5 degrees clockwise.
- 29. DSPM 2-1.310: Update site plan with a 6' width accessible pedestrian route from the main entry of the development to each abutting public/private street, to Los Portones Dr.
- 30. DSPM 6-1.202 + 7-1.201: Preliminary Basis of Design Reports must be reviewed and accepted by the Water Resources Department prior to zoning approval. Update BODs accordingly.

Design Review, Brad Carr, 480-312-7713, bcarr@scottsdaleaz.gov:

- 31. Please revise the site plan to provide a parking screen wall for new parking area along E. Pinnacle Peak Road and E. Los Portones Drive.
- 32. Please note that NAOS that is to be dedicated adjacent to a site wall shall be considered as revegetated NAOS for the length of the wall, with a width of five feet. (DSPM Section 2-2.501.D.3)
- 33. NAOS within PUE or over proposed utilities must be shown as revegetated NAOS.
- 34. No fixture shall be mounted higher than sixteen (16) feet. Please revise any details related to mounting height and revise the intensity of proposed fixtures to ensure overall footcandle measurements do not exceed requirements. (City of Scottsdale Exterior Lighting Policy and DSPM)
- 35. All exterior lighting shall have a Kelvin temperature of 3000 or less. (City of Scottsdale Exterior Lighting Policy)

Storm Water, Nerijus Baronas, 480-312-7072, nbaronas@scottsdaleaz.gov:

36. Significant 1st review comments. See the following pdf documents and address redlines:

- 1-ZN-2023_CORR-DRN-1-25 PPPR - Preliminary Grading and Drainage 2022 11.pdf

- <u>1-ZN-2023_1-CORR-24 PPPR - Preliminary Drainage Report 2022 11</u>

Water Resources, Anita Pritchard, 480-312-5676, apritchard@scottsdaleaz.gov:

- 37. Please see the attached redlined water and sewer BOD and address comments accordingly.
- 38. Provide first and second floor building square foot quantities and sewer demand calculations in a Basis of Design report per DSPM 7-1.200, 7-1.202 7-1.403 and Figure 7-1.2
- 39. The sewer tap identified in the Sewer Exhibit is a part of a private sewer system. Provide design drawings of the private sewer system this development is connecting to, demonstrating how the tap ultimately connects to the City of Scottsdale Sewer system. Show any sewer ejectors or private lift stations associated with the private system, as applicable. DSPM 7-1.414.
- 40. Identify the responsibility for operating and maintaining the private sewer system that this lateral will connect to per DSPM 7-1.501. Provide documentation demonstrating this development has permission from the Pinnacle Peak Office Park to discharge wastewater through its private sewer to the City Sewer.

41. Provide water Basis of Design information, including but not limited to, domestic and fire flow demands per DSPM 6-1.200, 6-1.20, Figure 6-1.2, 6-1.402, 6-1.404, 6-1.405, 6-1.406, 6-1.413, 6-1.414, 6-1.415, 6-1.416, 6-1.419, 6-1.501, 6-1.502, 6-1.507. Demonstrate there is adequate flow and pressures for all four model scenarios described in DSPM 6-1.202 for this project. Use square footages of combined first and second floor in calculating fire demand per DSPM 6-1.501.

Technical Issues

The following technical corrections have been identified. Though these items may not be critical to scheduling the case for public hearing, they may affect a decision on the construction plan submittal and should be addressed as soon as possible. Please address the following:

Current Planning, Katie Posler, 380 312-2703, kposler@scottsdaleaz.gov:

- 42. Please list the correct building height on the site plan (31'-6").
- 43. Please revise the site plan to demonstrate compliance with this land use limitation:

The outdoor areas are set back at least 100 feet from any lot line abutting a residential district shown on Table 4.100.A., or the residential portion of a Planned Community P-C, or any portion of a Planned Residential Development PRD with an underlying zoning district comparable to the residential districts shown on Table 4.100.A., measured from the property boundary to the zoning district line all within the City limits.

- 44. Please list the allowed (0.8) and proposed (0.23) FAR on the site plan under site data.
- 45. Staff would not be able to stipulate no drive through restaurants since the proposed zoning allows for it by right. But the applicant could impose private deed restrictions.
- 46. What does the bold line weight along the west and south building elevation represent? Not addressed on legend. Please address.
- 47. Please update the color elevations with color and material call outs. Identify manufacture name and LRV. LRV cannot exceed 35 per ESL Overlay.
- 48. Please update the plan sets to identify the bike rack location.

Transportation, Phil Kercher, 480-312-7645, pkercher@scottsdaleaz.gov:

49. There does not appear to be enough room for a passenger vehicle turning radius (25 feet) in the main parking area. Remove the center island or reduce the size.

Traffic Impact & Mitigation Analysis (TIMA), Parker Murphy, 480-312-7802, pmurphy@scottsdaleaz.gov:

- 50. Trip generation comparison should be limited to previously approved 15-DR-2004 (6,552 sq bank with two drive through lanes).
- 51. Staff would prefer the trip generation for the proposed site is based on other existing sites within the City of Scottsdale. Please conduct traffic counts at an existing site to estimate the trips for this site.

Fire, Scott Stanek, 480-312-7061, sstanek@scottsdaleaz.gov:

52. The location of the fire riser room on the floor plan is not coordinated with the location of the fire riser on the utility plan.

53. A remote FDC may be required if the fire riser is located on the NE corner of the building.

Archeology, Jesus Murillo, 480-312-7849, jmurillo@scottsdaleaz.gov:

54. As of the date of this letter, archeology staff has not completed their review. Please do not resubmit until all comments have been received and addressed.

Please submit the revised application requirements and supplemental information identified in Attachment A. Once reviewed, staff will determine if the application is ready to be determined for a hearing, or if additional information is needed.

The Zoning Administrator may consider an application withdrawn if a resubmittal has not been received within 180 days of the date of this letter (Section 1.305. of the Zoning Ordinance).

If you have any questions, or need further assistance, contact case reviewer identified below.

Regards, Katie Posler Senior Planner

ATTACHMENT A Resubmittal Checklist

Case Number: 1-ZN-2023 and 1-GP-2023 Key Code: 6C692 (Key Code) and 98T77 (Keycode)

Submit digitally at: https://eservices.scottsdaleaz.gov/bldgresources/Cases/DigitalLogin

All files shall be uploaded in PDF format. Application forms and other written documents or reports should be formatted to 8.5 x 11, and plans should be formatted to 11 X 17.

- Comment Response Letter Provide responses to the issues identified in this letter
- Project Narrative
- Site Plan
- NAOS Plan & Slope Analysis Plan
- Open Space Plan
- Landscape Plan
- Building Elevations (color and B&W)
- Perspectives
- Lighting Site Plan
- Photometric Analysis
- Manufacturer Cut Sheets (for external light fixtures)
- Floor Plans
- Traffic Impact Mitigation Analysis (TIMA)
- Basis of Design Report (water)
- Basis of Design Report (sewer)
- Drainage Report
- Grading & Drainage Plan

WATER STATEMENT

FOR A DOMESTIC WATER and FIRE LINE SERVING 7474 E.PINNACLE PEAK ROAD SCOTTSDALE, AZ 85260

APN #212-05-531

Provide Basis of Design information, including but not limited to, domestic and fire flow demands per DSPM 6-1.200, 6-1.20, Figure 6-1.2, 6-1.402, 6-1.404, 6-1.405, 6-1.406, 6-1.413, 6-1.414, 6-1.415, 6-1.416, 6-1.419, 6-1.501, 6-1.502, 6-1.507.

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PINNACLE PEAK

"PET RESORT"

Plan Check #

QS #45-45



Prepared By KEOGH ENGINEERING. INC.

> 650 N. 137[™] Avenue Suite 110 Goodyear, Arizona 85338

> > Job No. 22270 February 2023



Basis of Design Report

The purpose of this report is to provide justification for the connection of domestic water and fire line service serving the Pinnacle Peak Pet Resort. The City of Scottsdale Building Department requires that "Pinnacle Peak Pet Resort" domestic and fire line tie into the existing 2" Dom. And 4" Fire line located at the north property line of this site (see the Water Exhibit).

The subject site is located at the northwest corner of the intersection of Los Portones Drive and Pinnacle Peal Road and a part of the "Pinnacle Peak Office Park" in the City of Scottsdale.

Water QS #45-45 was analyzed for existing sewer facilities in the area (see Water Exhibit).

All new construction will cor Different owners. Scottsdale and M scenarios described in DSPM

Design Statement:

The site is included and a part of the overall existing water systened and second floor in calculating fire demand per DSPM 6-1.501.

Demonstrate there is adequate flow and pressures for all four model

6-1.202 for this project. Use

square footages of combined first

This project will connect to an existing 2"domestic and 4" fire line located at the north property line of this site. The site will also provide 2" domestic and 4" fire line back flow preventers (see the Water Exhibit).

Per the Fire Flow Test there is a static pressure of 72 p.s.i. See Fire Flow Test dated 2-16-23

ESTIMATED QUATITIES:

100 L.F. - 2" Domestic Water Service

1 Ea. - 2" Back Flow Preventer

100 L.F. - 4" Fire line

1 Ea. – 4" Back Flow Preventer





Arizona Flow Testing LLC

HYDRANT FLOW TEST REPORT

	Project Name: Project Address: Client Project No.: Arizona Flow Test Flow Test Permit Date and time flow Data is current an Conducted by: Witnessed by:	ting Project No.: No.: v test conducted:	Not Provided 23092 C71323 February 6, 20 August 6, 202 Floyd Vaugha	nacle Peak Road, Scottsdale 023 at 7:00 AM 3 n-Az Flow Testing, LLC (480 her – City of Scottsdale-Inspe	0-250-8154)	
	Raw Test Data			Data with 20 PSI Safety	Factor	
	Static Pressure: (Measured in pou	92.0 I nds per square inch)	PSI	Static Pressure: (Measured in pounds pe	72.0 PSI r square inch)	Scottsdale requires a maximum Static Pressure of 72 PSI for AFES Design.
	Residual Pressure (Measured in pou	e: 40.0 I nds per square inch)	PSI	Residual Pressure: (Measured in pounds pe	20.0 PSI r square inch)	
·		user: 0.9 1,7		Approx. distance betwee Main size: Not Provide Flowing GPM:		
	GPM @ 20 PSI:	2,1	12 GPM	GPM @ 20 PSI:	1,772	GPM
	Flow Test Location	on	Nort	h 1		
	essure Fire Hydrant Flow Fire Hydrant	Untilled Map				
747	Project Site '4 East Pinnacle Peak Road					t Los Portones Drive t Pinnacle Peak Road

Arizona Flow Testing LLC 480-250-8154 www.azflowtest.com floyd@azflowtest.com



SEWER STATEMENT

FOR A PRIVATE SEWER SERVICE CONNECTION

Provide first and second floor building square foot quantities and sewer demand calculations in a Basis of Design report per DSPM 7-1.200, 7-1.202 7-1.403 and Figure 7-1.2 SERVING 7474 E.PINNACLE PEAK ROAD SCOTTSDALE, AZ 85260

APN #212-05-531

PINNACLE PEAK

"PET RESORT"

The sewer tap identified in the Sewer Exhibit is a part of a private sewer system. Provide design drawings of the private sewer system this development is connecting to, demonstrating how the tap ultimately connects to the City of Scottsdale Sewer system. Show any sewer ejectors or private lift stations associated with the private system, as applicable. DSPM 7-1.414.

Identify the responsibility for operating and maintaining the private sewer system that this lateral will connect to per DSPM 7-1.501. Provide documentation demonstrating this development has permission from the Pinnacle Peak Office Park to discharge wastewater through its private sewer to the City Sewer.



Prepared By

EOGH ENGINEERING. INC.

650 N. 137TH Avenue Suite 110 Goodyear, Arizona 85338

> Job No. 22270 February 2023

Basis of Design Report

The purpose of this report is to provide justification for the connection to a existing 6" sewer service within the Pinnacle Peak Office Park. The project has the ability to tie-in to an existing 6" sewer stub located at the west property line (see the Sewer Exhibit).

The subject site is located at the northwest corner of the intersection of Los Portones Drive and Pinnacle Peak Road and is a part of the "Pinnacle Peak Office Park" in the City of Scottsdale.

Sewer and water QS #45-45 was analyzed for existing sewer facilities in the area (see Sewer Exhibit).

All new construction will conform to the City of Scottsdale and MCESD requirements.

Design Statement:

The site is included and a part of the overall existing sewer system design of the "Pinnacle Peak Office Park". It is assumed that "Pinnacle Peak Office Park" has provided adequate capacity to include the "Pinnacle Peak Pet Resort" site.

This project will connect to an existing 6" stub located at the west property line

ESTIMATED QUATITIES:

1 ea - Remove 6" stub

1 ea.- Connect to existing 6" stub.









7474 E. Pinnacle Peak Road Scottsdale, Arizona Maricopa County

Stormwater Review By: Nerijus Baronas, PE Phone 480-312-7072 Fax 480-312-9187 E-mail: <u>nbaronas@ScottsdaleAZ.gov</u> Review Cycle <u>1</u> Date <u>4/6/2</u>3

APN #212-05-531



Prepared By Keogh Engineering, Inc. 650 N. 137TH Avenue #110 Goodyear, Arizona 85338

Job No. 22270

November, 2022

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FIGURES

- Figure 1Vicinity Map
- Figure 2 Flood Insurance Rate Map

EXHIBITS

Exhibit "A" Onsite Drainage with Cross-Section Locations

APPENDICES

- Appendix A Peak Discharge Calculation per MCFCD "Drainage Design Management System" software
- Appendix B Pre-Development Typical Cross-Sections
- Appendix C Post-Development Typical Cross-Sections
- Appendix D Erosion Setback Limit Calculations Per Arizona Department of Water Resources State Standard 5-96 (SSA 5-96)
- Appendix E Scour Depth Calculations
- Appendix F New 18" Storm Drain Pipe and Inlet Design
- Appendix G Rational Method Developed Condition C Coefficient
- Appendix H Riprap Sizing per Arizona Department of Water Resources State Standard 5-96 (SSA 5-96)



1. INTRODUCTION

1.1 Location and Site Description

The project is located at 7474 E. Pinnacle Peak Road in Scottsdale, Arizona, Maricopa County, as shown on the Vicinity Map. The 0.95 ac. site is a commercial lot located in FEMA Zone AE.

1.2 Existing Conditions

The proposed site as of today consists of a barren dirt commercial lot with water and sewer stubouts.

1.3 Proposed Project

This site consists of a new commercial building on a compacted pad, The site will also connect to existing onsite water and sewer stubouts.

2. HYDROLOGIC ANALYSIS

Update per latest HEC-RAS WSL results

2.1 Discussion

The grading and drainage plan shows the passing of historical drainage flows entering the site from the north property line and traversing as concentrated flows in drainage easements located along the east and south property lines (see the Onsite Drainage Exhibit).

The site is also affected by FEMA LØMR 1509-1857P enacted in 6/10
 Shall be based on limits of inundation
 using HEC-RAS 1 or
 2 D model

- building pad will require 2'-3' of compacted fill to be imported to the site of the site of the site developable area the 50' drainage easement is being proposed to reduce by 25' along the east side of the parcel and reduced by 15' along the south side of
- reduce by 25' along the east side of the parcel and reduced by 15' along the south side the parcel.
- The reduction of the drainage easements will require the installation of retaining flood scour walls of approximately 9' in height along the new edges of the drainage easement. The total length of retaining flood scour walls is 335 L.F. more or less.
- The sites on site drainage will be collected by a storm drain system of 200 L E of 18" nine And 80 L.F. of 24" pipe including a Vortech style manhole prior to rel drainage easement at the south west corner of the site.
- This drainage report and grading and drainage plan is being prepared to support the drainage and FEMA required designs.

This is not a valid design flow data. Review FIS and latest FLO-2D results to establish governing design flow. Please schedule a meeting with the City Floodplain Administrator to go over regulatory technical modeling requirements for FEMA Zone AE.

Develop HEC-RAS model

2.2 Offsite Hydrology

There are offsite flows entering the site. The only offsite runoff that apply to this project is the runoff that enter the existing drainage easements located along the east and south property lines (see the "Onsite Drainage Exhibit). Qs were taken from plans prepared by Gilbertson Associates for the design of Pinnacle Peak Office Park.

This report calculates and shows in Appendix B typical Cross-Sections with water surface elevation and spreads that indicate that the Q100=223 c.f.s. and q100= 234 C.F.S. will not

Add FIS and latest design flow based on actual hydrology or FLO-2D results.

NOAA14 maps.

d outside the proposed, reduced in width, drainage easement...

eport also shows that the construction of the new commercial building is free from

ation from the offsite 100-yr. storm event and that the integrity of the structure is not

undermined.

Peak Discharge From the "PINNACLE PEAK OFFICE PARK" Grading and Drainage Plans <u>By "Gilberson Associates"</u>

The 223 c.f.s. from the From the "PINNACLE PEAK OFFICE PARK" Grading and
Drainage Plans By "Gilberson Associates" that enters the reduced, 50' to 25',
drainage easement from the north flows south and west. Hydraulic capacityOutdated hydrology.
Use latest based oncalculations for the proposed 25' wide drainage easement are provided in Appendix D.

Existing Drainage Easement REDUCED In Wide from 50' to 25'

The reduction of the drainage easement will required the installation of retaining flood scour walls of approximately 9' in height along the new edges of the drainage easement.

Hydraulic water surface elevations and spread calculations for the 25' drainage easement are provided in Appendix D. The spread from the 223 cfs and 234 cfs are Contained in the drainage easement as indicated in the cross section in Appendix B

2.3 Onsite Hydrology / Retention Statement

See "Onsite Drainage Exhibit"

2.3.1 Discussion

The sites onsite drainage will be collected b

Attach approved document for reference.

200 L.F. of 18"

pipe and 80 L.F. of 24" pipe including a Vortech style manhole prior to releasing runoff into the drainage easement at the south west corner of the site (see "Onsite Drainage Exhibit").

No onsite retention is required per:

Ordinance: (Case 15-DR-2004#2)

- E. On May 4, 2004, the City's Stormwater management Devision approved a Stormwater Storage Waiver for the Pinnacle Peak Office Park. The proposed development is located within the boundaries of the Office Park and is included in the approved waiver. The approval was based on the following conditions:
 (1) All storage requirements were waived.
- F. With the final improvement plans submittal to the Planning and Development Services Department, the developer shall submit a final drainage report and plan, subject to City staff approval.
- G. Underground Stormwater Storage:
 - (1) Underground stormwater storage is prohibited unless approval is obtained from the City's Floodplain Administrator.
 - (a) Drywells are not permitted.

2.3.2 Erosion Protection-per Appendix D

- To what depth?

The calculated erosion setback for the new 15.3' and falls inside the 20' minimum. Because the velocity in 8.28 f.p.s. at Cross-Section B-B, erosion protection is provided by the retaining flood/scour wall.

2.3.3 FEMA Note:

This site is located within Zone AE as delineated on Ins FEMA Q100 = ____ CFS Boundary Map Panel No. 04013C1310M dated July 20, 2021 and published by the Federal Emergency Management Agency.

The site is also affected by LOMR 1509-1857P enacted in 6/10/2016.

The BFE calculated at the leading edge of the structure by interpolating between BFE shown on the Firmette of BFE 1869.5 and BFE 1876.7 is BFE=1872.00. The

DEE 4070.00	Lies EIC meetile. Outpreit heads up
RFE=1873.00.	Use FIS profile. Submit back up
	 analysis.

2.3.4 Site Ultimate Outfall

The site ultimate outfall is at the southwest property corner at elevation 1862.96.

2.3.5 Typical Cross-Sections Description

Post-Development Cross-Sections in Appendix C are provided that indicate that the building is free from inundation from the 100-yr storm event and that the spreads from

the 223 c.f.s. and 223 c.f.s. are contained in the 25' and 3

Hydraulics shall be based on HEC-RAS 1D or 2D model.

2.3.6 Hydraulic Analysis of Pre vs Post Development

Pre-Development and Post-Development sections are provided in Appendix B and C with the following results:

PRE-DEV. - Cross-Section B-B (On report equals Section A-A on plans) Q100=223 c.f.s. Vel. = 5.20 f.p.s. WSE = 1869.53 ft.

POST-DEV. - Cross-Section B-B (On report equals Section A-A on plans) Q100=223 c.f.s. Vel. = 8.28 f.p.s. WSE = 1869.16 ft.

PRE-DEV. - Cross-Section E-E (On report equals Section B-B on plans) Q100=234 c.f.s. Vel. = 5.41 f.p.s. WSE = 1865.88 ft.

Update per HEC-RAS results	POST-DEV. – Cross-Section E-E (On report equals Section B-B on plans) Q100=234 c.f.s. Vel. = 5.31 f.p.s. WSE = 1865.45 ft.
	The pre vs post Q100s at Cross-Section B-B are the same, the velocities are lifferent by 3.08 f.p.s., and the water surface elevation increased by 0.37'.
	The pre vs post Q100s at Cross-Section E-E are the same, the velocities are lifferent by 0.10 f.p.s. and the water surface elevations increased by 0.43'.
N	lo special erosion protection is required.
	6

3. CONCLUSION

• Offsite runoff flows entering the site of Q100 of 223 and 234 c.f.s. are contained in the 25' (east) and 35' (south) drainage easement.

Release of drainage easements will be applied for respectively.

- The Finish floor elevation of 1873.00 for the n submit back up data free from inundation from the 100-year storm event and set at RFE=1873.00, one foot above the BFE of 1872.00 making it free from inundation from the FEMA 100-yr event.
- The construction of the project will not cause adverse condition to adjacent properties;
- Erosion protection is provided by the installation of the retaining flood/scour wall.



Need HEC-RAS water surface analysis

FIGURES

Figure 1 - VICINITY MAP Figure 2 - FEMA FLOOD INSURANCE RATE MAP

.

'n



National Flood Hazard Layer FIRMette

& FEMA

0°55'28"W 33°42'12"N



500

250



EXHIBITS

Pinnacle Peak "PET RESORT" ONSITE DRAINAGE EXHIBITS

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Pinnacle Peak "OFFICE PARK" OFFSITE DRAINAGE EXHIBIT

Excerpt from the "Pinnacle Peak Office Park"

Bу

Gilbertson Associates





APPENDIX A

Peak Discharge per Drainage Design Management System for Windows Program (DDMSW)

11/14/2022		100 Year		3.2	0.95	0.38	0.0294	£	8.48	
	ary	50 Year		2.9	0.95	0.38	0.0267	5	7.55	
	Sub Basin Hydrology Summary	25 Year		2.5	0.94	0.38	0.0230	S	6.62	
	ub Basin Hyd	10 Year		1.8	0.85	0.34	0.0165	ъ	5.42	
	S	5 Year		1.5	0.85	0.34	0.0138	ŝ	4.52	
		2 Year		1.1	0.85	0.34	0.0101	5	3.32	
Flood Control District of Maricopa County Drainage Design Management System SUB BASINS Project Reference: 22270-ATLANTIC DEV.				Q (cfs)	v	CA (ac)	Volume (ac-ft)	Tc (min)	i (in/hr)	
Flood Co Drainag Project Re		Å		0.042						
		Stope (ft/mi)		93.0						
	Sub Basin Data	DSGE		1,871.90						
	ดี	USGE		1,874.40						
		Length (ft)	Ţ	142						
		Area (acres)	Major Basin ID: 01	0.4						
Page 1	Q		Major B	A						

* Non default value

(stSubBasRat.rpt)

Page 1					Floot Dra Projec	d Control Dis inage Desig L/ ot Reference	Flood Control District of Maricopa County Drainage Design Management System LAND USE Project Reference: 22270-ATLANTIC DEV.	copa County ant System ANTIC DEV			11/14/2022
Sub	Land Use Code	Area	Area	Кb			Runoff Coefficient C	ficient C			Description
นลงเก		(acres)	(%)		2 Year	5 Year	10 Year	25 Year	50 Year 100 Year	100 Year	
Major E A	Major Basin ID: 01 A 240	0,40	100.0	0.042	0.85	0.85	0.85	0.94	0.95	0.95	Regional Commercial (500,000 to 1,000,000 sq. ft.)
	I	0.400	100.0								

* Non default value

(stLuDatRat.rpt)

			Project Reference: 22270-ATLANTIC DEV	RAINFALL DATA ence: 22270-ATL	TLANTIC DE	, ,			
Page 1		an buy way ang ang ang pang pang ang ang ang ang ang ang ang ang ang							11/14/2022
Q	Method	Duration	2 Yr	5 Yr	10 Yr	25 Yr	50 Yr	100 Yr	
DEFAULT	NOAA14	5 MIN	0.258	0.348	0.418	0.511	0.582	0.655	
	NOAA14	10 MIN	0.393	0.529	0.635	0.777	0.886	0.998	
	NOAA14	15 MIN	0.487	0.656	0.788	0.964	1.098	1.237	
	NOAA14	30 MIN	0.655	0.884	1.061	1.298	1.479	1.665	
	NOAA14	1 HOUR	0.811	1.094	1.313	1.606	1.830	2.061	
	NOAA14	2 HOUR	0.939	1.250	1.489	1.813	2.059	2.314	
	NOAA14	3 HOUR	1.022	1.336	1.585	1.932	2.208	2.494	
	NOAA14	6 HOUR	1.209	1.544	1.811	2.174	2.457	2.752	
	NOAA14	12 HOUR	1.366	1.724	2.006	2.386	2.677	2.978	
	NOAA14	24 HOUR	1.610	2.083	2.459	2.985	3.403	3.841	

Flood Control District of Maricopa County Drainage Design Management System RAINFALL DATA (stRanMulti.rpt)

APPENDIX B

Pre-Development Typical Cross-Sections

(see "Onsite Drainage Exhibit)
22270 - Atlantic Dev. - CROSS-SECTION B-B (PRE-CONDITION) Cross Section for Irregular Channel

Project Description			
Worksheet	22270 - Atlantic	Dev CROSS-SECTION B-B	
Flow Element	Irregular Channe	el	
Method	Manning's Formula		
Solve For	Channel Depth		
Mannings Coefficie	0.035		
Section Data	0.025		
Slope	0.017500	ft/ft	
Water Surface Elev	1,869.53	ft	
Elevation Range	37.80 to 1,870.80		



* EQUALS SECTION A.A. ON G. & D PLANS

22270 - Atlantic Dev. - CROSS-SECTION B-B (PRE-CONDITION) Worksheet for Irregular Channel

Worksheet	22270 - Atlantic	Dev CROSS-SECTION B-
Flow Element	Irregular Channe	
Method	Manning's Form	
Solve For	Channel Depth	ula
	Channel Depth	
Input Data	<u>.</u>	
Slope 017500 ft/	ft	
Discharg 223.00 cf		
Ostions		
Options		- Martin and
Current Roughness		
Open Channel Weig Closed Channel Wei		s Method
Cioseu Channel Wei		
Results		
Mannings Coefficie	0.035	
Water Surface Elev	1,869.53	ft
Elevation Range	7.80 to 1,870.80	
Flow Area	42.9	ft²
Wetted Perimeter	48.16	ft
Top Width	48.01	ft
Actual Depth	1.73	ft
Critical Elevation	1,869.51	ft
Critical Slope	0.018686	ft/ft
Velocity	5.20	ft/s
Velocity Head	0.42	ft
Specific Energy	1,869.95	ft
Froude Number	0.97	
Flow Type	Subcritical	
Roughness Se	gments	
Start End	Mannings	
Station Station	Coefficient	
0+00 0+72	0.035	

Natural Cha	annel Points
Station (ft)	Elevation (ft)
0+00	1,870.00
0+07	1,870.80
0+15	1,869.00
0+32	1,868.00
0+34	1,867.80
0+36	1,868.00
0+52	1,869.00
0+60	1,869.50
0+72	1,870.00

22270 - Atlantic Dev. - CROSS-SECTION E-E (PRE-DEVELOPMENT) Cross Section for Irregular Channel

Project Description			
Worksheet	22270 - Atlantic	Dev (CROSS-SECTION E-E
Flow Element	Irregular Channel		
Method	Manning's Formula		
Solve For	Channel Depth		
	·····		_
Section Data			•
Mannings Coefficie	ı 0.035		
Slope	0.017300	ft/ft	
Water Surface Elev	1,865.88	ft	
Elevation Range	34.40 to 1,867.00		
Discharge	234.00	cfs	



* EQUALS SECTION B.B. ON GED PLANS

22270 - Atlantic Dev. - CROSS-SECTION E-E (PRE-DEVELOPMENT) Worksheet for Irregular Channel

Worksheet Flow Eleme		22270 - Atlantic	Dev -	TRACE SECTION F.
Flow Eleme				CR033-SECTION E-
		Irregular Chanr		
Method		Manning's Forn	nula	
Solve For		Channel Depth		
Input Data				
Slope 0	17300 ft/ft			
Discharge 2	234.00 cfs			
Options				
Current Ro	ughness M	lethcoved Lotter	s Metho	 pd
Open Chan	nel Weigh	ting oved Lotter	s Metho	od
Closed Cha	annel Weig	hting Horton	's Metho	bd
Results				_
Mannings (Coefficie	0.035		-
Water Surfa		1,865.88	ft	
Elevation R	kange 34	.40 to 1,867.00		
Flow Area		43.3	ft²	
Wetted Per	imeter	45.46	ft	
Top Width		45.33	ft	
Actual Dep	th	1.48	ft	
Critical Elev	vation	1,865.86	ft	
Critical Slo	ре	0.018270	ft/ft	
Velocity		5.41	ft/s	
Velocity He	ad	0.45	ft	
Specific En	ergy	1,866.33	ft	
Froude Nu	mber	0.98		
Flow Type		Subcritica		_
Roug	hness Seg	ments		
Start Station	End Station	Mannings Coefficient		
0+00	0+65	0.035		
Natural Cha	annel Points	3		
Station (ft)	Elevation (ft)			
0+00	1,867.00)		
	1 000 01	n		
0+05	1,866.00	J		
0+05 0+08	1,866.00			

0+27

0+38 0+48

0+55

0+65

1,864.60 1,864.40

1,865.00

1,866.00

1,867.00

APPENDIX C

.

Post-Development Typical Cross-Sections

(see "Onsite Drainage Exhibit)

22270 - Atlantic Dev. - CROSS-SECTION A-A (WSE) Cross Section for Irregular Channel

Worksheet	22270 - Atlantic D	ev CROSS-SECTIO
Flow Element	Irregular Channel	
Method	Manning's Formul	la
Solve For	Channel Depth	
Section Data		
Section Data Mannings Coefficier	0.025	
	0.025 0.016700 ft	 //ft
Mannings Coefficier		
Mannings Coefficier Slope Water Surface Elev	0.016700 ft	



22270 - Atlantic Dev. - CROSS-SECTION A-A (WSE) Worksheet for Irregular Channel

.

Project Description	
Worksheet	22270 - Atlantic Dev CROSS-SECTIO
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth
input Data	
Slope 016700 ft/	ft
Discharge 223.00 cfs	ŝ
Options	
Current Roughness M	Methoved Lotter's Method
Open Channel Weigl	nting oved Lotter's Method
Closed Channel Wei	ghting Horton's Method
	· · · · · · · · · · · · · · · · · · ·
Results	
Mannings Coefficie	0.025
Water Surface Elev	1,869.63 ft
Elevation Range 3	8.00 to 1,873.00
Flow Area	24.6 ft²
Wetted Perimeter	19.15 ft
Top Width	17.22 ft
Actual Depth	1.63 ft
Critical Elevation	1,869.95 ft
Critical Slope	0.009000 ft/ft
Velocity	9.07 ft/s
Velocity Head	1.28 ft
Specific Energy	1,870.91 ft
Froude Number	1.34
Flow Type	Supercritical
Roughness Seg	gments
Start End Station Station	Mannings Coefficient
0+00 0+32	0.025
Natural Channel Point	<u>s</u>
Station Elevation	
(ft) (ft)	

0+00

0+12

0+12

0+25

0+32

1,872.50

1,870.00

1,868.00

1,868.00

1,870.70

22270 - Atlantic Dev. - CROSS-SECTION B-B (WSE) Cross Section for Irregular Channel

Project Description		
Worksheet	22270 - Atlantic	Dev CROSS-SECTIC
Flow Element	Irregular Chann	el
Method	Manning's Form	ıula
Solve For	Channel Depth	
Contion Data		
Section Data	ei 0.025	
Mannings Coeffici	eı 0.025 0.016700	ft/ft
	0.016700	
Mannings Coeffici Slope	0.016700	



H:1 NTS

22270 - Atlantic Dev. - CROSS-SECTION B-B (WSE) Worksheet for Irregular Channel

Project Description	
· · · · · · · · · · · · · · · · · · ·	
Worksheet Flow Element	22270 - Atlantic Dev CROSS-SECTIC
Method	Irregular Channei Manning's Formula
Solve For	v
	Channel Depth
Input Data	·
Slope 016700 f	t/ft
Discharg: 223.00 c	
Options	**********
Current Roughness	Methcoved Lotter's Method
	phting oved Lotter's Method
Closed Channel We	
	<u> </u>
Results	
Mannings Coefficier	0.025
Water Surface Elev	1,869.16 ft
Elevation Range	37.40 to 1,873.00
Flow Area	26.9 ft²
Wetted Perimeter	24.06 ft
Top Width	22.18 ft
Actual Depth	1.76 ft
Critical Elevation	1,869.43 ft
Critical Slope	0.009147 ft/ft
Velocity	8.28 ft/s
Velocity Head	1.07 ft
Specific Energy	1,870.22 ft
Froude Number	1.32
Flow Type	Supercritical
Roughness Se	eaments
Start End Station Station	Mannings Coefficient
0+00 0+36	0.025
Natural Channel Poi	nts
Station Elevatio (ft) (ft)	лі
0+00 1,873.	00
0+00 1,872	50
0+12 1,871	00
0+12 1,867	40

0+28

0+36

1,868.00

1,869.50

22270 - Atlantic Dev. - CROSS-SECTION C-C (WSE) Cross Section for Irregular Channel

Project Description		
Worksheet	22270 - Atlantic	Dev CROSS-SECTIC
Flow Element	Irregular Chann	el
Method	Manning's Form	ıula
Solve For	Channel Depth	
Section Data		
Mannings Coefficie	0.025	
Slope	0.019400	#/#
Water Surface Elev		
Elevation Range	36.50 to 1,873.00	



H:1 NTS

22270 - Atlantic Dev. - CROSS-SECTION C-C (WSE) Worksheet for Irregular Channel

Project Des	scription		
Workshee			Dev CROSS-SECTI
Flow Elem	ent	Irregular Chann	
Method		Manning's Form	nula
Solve For		Channel Depth	
Input Data			
Slope (019400 ft/ft	 t	
	223.00 cfs		
Dioonarg			
Options			
Current Re	oughness N	lethcoved Lotter	s Method
Open Cha	nnel Weigh	ting oved Lotter	s Method
Closed Ch	annel Weig	hting Horton	s Method
		·····	
Results			
Mannings	Coefficie	0.025	
Water Sur	face Elev	1,868.73	ft
Elevation	Range 30	6.50 to 1,873.00	
Flow Area		25.8	ft²
Wetted Pe	erimeter	24.18	ft
Top Width	I	21.84	ft
Actual De	pth	2.23	ft
Critical Ele	evation	1,869.06	ft
Critical Slo	ope	0.009429	ft/ft
Velocity		8.64	ft/s
Velocity H	ead	1.16	
Specific E	nergy	1,869.89	ft
Froude Nu	umber	1.40	
Flow Type	;	Supercritical	
Rou	ghness Seg	ments	
Start Station	End Station	Mannings Coefficient	
0+00	0+36	0.025	
Natural Cl	nannel Point	s	
Station (ft)	Elevation (ft)		

0+00

0+00

0+12

0+12 0+28

0+36

1,873.00

1,872.50

1,872.00 1,866.50

1,868.00 1,869.00

22270 - Atlantic Dev. - CROSS-SECTION D-D (WSE) Cross Section for Irregular Channel

Project Description		
Worksheet	22270 - Atlantic Dev CROSS-SECTIC	
Flow Element	Irregular Channel	
Method	Manning's Formula	
Solve For	Channel Depth	
Section Data		
Section Data		
Mannings Coeffici	eı 0.025	
Slope	0.011800 ft/ft	
Water Surface Ele	v 1,867.86 ft	
Elevation Range	36.00 to 1,873.00	
Discharge	234.00 cfs	



H:1 NTS

22270 - Atlantic Dev. - CROSS-SECTION D-D (WSE) Worksheet for Irregular Channel

Project Description		
Worksheet	22270 - Atlantic	Dev CROSS-SECTI
Flow Element	Irregular Chann	el
Method	Manning's Form	iula
Solve For	Channel Depth	
Input Data		
Slope 011800 ft/f	 t	
Discharge 234.00 cfs	i	
Options		<u></u>
Current Roughness M	lethcoved Lotter's	s Method
Open Channel Weigh	ting wed Lotter's	s Method
Closed Channel Weig	ntine Horton's	s Method
Results		
Mannings Coefficier	0.025	
Water Surface Elev	1,867.86	ft
•	5.00 to 1,873.00	
Flow Area	36.3	
Wetted Perimeter	36.42	
Top Width	34.51	
Actual Depth	1.86	
Critical Elevation	1,867.94	
Critical Slope	0.009469	
Velocity	6.44	
Velocity Head	0.65	
Specific Energy	1,868.51	ft
Froude Number	1.11	
Flow Type	Supercritical	1
Roughness Seg	ments	
Start End Station Station	Mannings Coefficient	

0.025

Natural Cha	annel Points
Station (ft)	Elevation (ft)
0+00	1,873.00
0+00	1,872.50
0+15	1,871.00
0+15	1,866.00
0+38	1,867.00
0+50	1,867.90

0+50

0+00

22270 - Atlantic Dev. - CROSS-SECTION E-E (WSE) Cross Section for Irregular Channel

Project Description					
Worksheet	22270 - Atlantic	Dev CROSS-SECTIO			
Flow Element	Irregular Chann	el			
Method Manning's Formula					
Solve For	Channel Depth				
Section Data					
Section Data					
		···· ·· · · · · ·			
Mannings Coefficier	0.035				
	0.035 0.011800	ft/ft			
5					
Mannings Coefficier Slope Water Surface Elev	0.011800				





)

22270 - Atlantic Dev. - CROSS-SECTION E-E (WSE) Worksheet for Irregular Channel

Worksheet	22270 - Atlantic	Dev CROSS-S	ECT
Flow Element	Irregular Chann	el	
Method	Manning's Form	nula	
Solve For	Channel Depth		
Input Data			
Slope 011800 ft	ſft		
Discharg: 234.00 cf	īs		
			
Options			
Current Roughness	Methcoved Lotter	s Method	
Open Channel Weig	hting oved Lotter'	s Method	
Closed Channel We	ightin; Horton'	s Method	
	ightin; Horton'	s Method	
Closed Channel We	ightin(Horton'	s Method	
Closed Channel We	ightinı Horton'ı 0.035	s Method	
Closed Channel We Results			
Closed Channel Wei Results Mannings Coefficier Water Surface Elev	0.035		
Closed Channel Wei Results Mannings Coefficier Water Surface Elev	0.035 1,865.45	 ft	
Closed Channel We Results Mannings Coefficier Water Surface Elev Elevation Range	0.035 1,865.45 33.40 to 1,873.00	ft ft ²	
Closed Channel We Results Mannings Coefficier Water Surface Elev Elevation Range Flow Area	0.035 1,865.45 33.40 to 1,873.00 44.1	ft ft² ft	
Closed Channel We Results Mannings Coefficier Water Surface Elev Elevation Range Flow Area Wetted Perimeter	0.035 1,865.45 53.40 to 1,873.00 44.1 35.73	ft ft ² ft ft	
Closed Channel We Results Mannings Coefficier Water Surface Elev Elevation Range Flow Area Wetted Perimeter Top Width	0.035 1,865.45 53.40 to 1,873.00 44.1 35.73 34.62	ft ft² ft ft ft ft	
Closed Channel We Results Mannings Coefficiel Water Surface Elev Elevation Range Flow Area Wetted Perimeter Top Width Actual Depth	0.035 1,865.45 53.40 to 1,873.00 44.1 35.73 34.62 2.05	ft ft ² ft ft ft ft ft	
Closed Channel Wei Results Mannings Coefficien Water Surface Elev Elevation Range Flow Area Wetted Perimeter Top Width Actual Depth Critical Elevation	0.035 1,865.45 33.40 to 1,873.00 44.1 35.73 34.62 2.05 1,865.28	ft ft ² ft ft ft ft ft ft ft	
Closed Channel Wei Results Mannings Coefficier Water Surface Elev Elevation Range Flow Area Wetted Perimeter Top Width Actual Depth Critical Elevation Critical Slope	0.035 1,865.45 33.40 to 1,873.00 44.1 35.73 34.62 2.05 1,865.28 0.017656	ft ft ² ft ft ft ft ft ft/ft ft/ft ft/s	
Closed Channel Wei Results Mannings Coefficien Water Surface Elev Elevation Range Flow Area Wetted Perimeter Top Width Actual Depth Critical Elevation Critical Slope Velocity	0.035 1,865.45 3.40 to 1,873.00 44.1 35.73 34.62 2.05 1,865.28 0.017656 5.31	ft ft ² ft ft ft ft ft ft ft ft/ft ft/s ft	
Closed Channel We Results Mannings Coefficien Water Surface Elev Elevation Range Flow Area Wetted Perimeter Top Width Actual Depth Critical Elevation Critical Slope Velocity Velocity Head	0.035 1,865.45 3.40 to 1,873.00 44.1 35.73 34.62 2.05 1,865.28 0.017656 5.31 0.44	ft ft ² ft ft ft ft ft ft ft ft/ft ft/s ft	

Rou	Roughness Segments						
Start Station	End Station	Mannings Coefficient					
0+00	0+50	0.035					
• · · ·							

Natural Ch	Natural Channel Points					
Station (ft)	Elevation (ft)					
0+00	1,873.00					
0+00	1,872.50					
0+15	1,869.00					
0+15	1,864.50					
0+33	1,863.40					
0+50	1,865.50					

APPENDIX D

Erosion Setback Line Calculations per Arizona Department of Water Resources SSA 5-96

"PINNACLE PEAK PET RESORT # 22270

ARIZONA DEPARTMENT OF WATER RESOURCES FLOOD WARNING AND DAM SAFETY SECTION



Watercourse System Sediment Balance

500 North Third Street Phoenix, Arizona 85004

(602) 417-2445

STATE STANDARD ATTACHMENT SSA 5-96

SEPTEMBER 1996

"PINNACLE PEAK r Resort" 22270

For watercourses which have drainage areas of less than 30 square miles, the recommended setback allowances are as follows:

for straight channel reaches or reaches with minor curvature:

setback = $1.0(Q_{100})^{0.5}$

for channels with obvious curvature or channel bend:

setback = $2.5(Q_{100})^{0.5}$

where setback is in feet and Q_{100} is in cubic feet per second.

 $5.8. = 1.0(0100)^{0.5}$ = 1.0(234 = fs)^{0.5} 20min. = 15.3"

APPENDIX E

Scour Depth Calculations per Arizona Department of Water Resources SSA 5-96

FOR STRAIGHT CHANNEL REACHES OR REACHES WITH MINOR CURVATURE

ARIZONA DEPARTMENT OF WATER RESOURCES SSA 5-96



AT PESOET

SCOUR DEPTH CALCULATIONS

A DEPTH.DWG MODEL (11-13-22 8:54:00AM) RUDY-153

C:\ENGINEERING DESIGN\DRAINAGE DESIGN-COCCCCCCCCCCCCCCLONE\EROSION MIN. DEPTI

650 N. 137TH AVENUE #110 • GOODYEAR, ARIZONA 85338 PHONE: (623) 535-7260 FAX: (623) 535-7262

EMAIL: keogh@keoghengineering.com

DATE

JOB NO.

DESIGNED

RMV/DFK

APPENDIX F

New 18" Storn Drain Pipe and Inlet Design



Section Material: PVC Section Shape: Circular Section Size: 18 inch Number Sections: 1

Description		Description			
Discharge	2.00	cfs	Capacity	13.02	cfs
Mannings Coefficient	0.010		Hydraulic Drop	0.47e-2	ft
Length	22.00	ft	Energy Slope	0.000215	ft/ft
Constructed Slope	0.009091	ft/ft	Upstream Velocity	1.13	ft/s
Upstream Flow Time	0.00	min	Average Velocity	1.13	ft/s
Pipe Flow Time	0.32	min	Downstream Velocity	1.13	ft/s
System Flow Time	0.32	min			

Grade Elevations

Location	Invert (ft)	Ground (ft)	Crown (ft)	Cover (ft)	Depth (ft)	HGL (ft)	EGL (ft)
Upstream	1,866.45	1,869.00	1,867.95	1.05	1.67	1,868.12	1,868.14
Downstream	1,866.25	1,869.00	1,867.75	1.25	1.87	1,868.12	1,868.14

Messages: Profile: Pressure profile.

Information: Surcharged condition

x

Section Material: PVC Section Shape: Circular Section Size: 18 inch Number Sections: 1

Description		Description			
Discharge	3.20	cfs	Capacity	15.67	cfs
Mannings Coefficient	0.010		Hydraulic Drop	-0.07	ft
Length	85.00	ft	Energy Slope	0.001674	ft/ft
Constructed Slope	0.013176	ft/ft	Upstream Velocity	4.10	ft/s
Upstream Flow Time	1.03	min	Average Velocity	2.96	ft/s
Pipe Flow Time	0.48	min	Downstream Velocity	1.81	ft/s
System Flow Time	1.51	min			

Grade Elevations

Location	invert (ft)	Ground (ft)	Crown (ft)	Cover (ft)	Depth (ft)	HGL (ft)	EGL (ft)
Upstream	1,867.37	1,871.00	1,868.87	2.13	0.68	1,868.05	1,868.31
Downstream	1,866.25	1,869.00	1,867.75	1.25	1.87	1,868.12	1,868.17

Messages:

Profile: Steep subcritical backwater profile (S1).

Profile: Composite profile. Profile: Critical depth assumed upstream.

Profile: Pressure profile. Profile: Hydraulic jump formed.

Section Material: PVC Section Shape: Circular Section Size: 18 inch Number Sections: 1

Description		Description			
Discharge	3.20	cfs	Capacity	15.70	cfs
Mannings Coefficient	0.010		Hydraulic Drop	0.36	ft
Length	87.00	ft	Energy Slope	0.006509	ft/ft
Constructed Slope	0.013218	ft/ft	Upstream Velocity	4.10	ft/s
Upstream Flow Time	0.54	min	Average Velocity	2.96	ft/s
Pipe Flow Time	0.49	min	Downstream Velocity	1.82	ft/s
System Flow Time	1.03	min			

Grade Elevations

Location	Invert (ft)	Ground (ft)	Crowп (ft)	Cover (ft)	Depth (ft)	HGL (ft)	EGL (ft)
Upstream	1,868.51	1,872.50	1,870.01	2.49	0.68	1,869.19	1,869.45
Downstream	1,867.36	1,871.00	1,868.86	2.14	1.47	1,868.83	1,868.89

Messages:

Profile: Steep subcritical backwater profile (S1).

Profile: Critical depth assumed upstream.

Profile: Hydraulic jump formed.

Section Material: Concrete Section Shape: Circular Section Size: 18 inch Number Sections: 1

Description			Description		
Discharge	3.20	cfs	Capacity	7.71	cfs
Mannings Coefficient	0.013		Hydraulic Drop	0.03	ft
Length	65.00	ft	Energy Slope	0.000892	ft/ft
Constructed Slope	0.005385	ft/ft	Upstream Velocity	2.20	ft/s
Upstream Flow Time	0.00	min	Average Velocity	2.01	ft/s
Pipe Flow Time	0.54	min	Downstream Velocity	1.82	ft/s
System Flow Time	0.54	min			

Grade Elevations

Location	Invert (ft)	Ground (ft)	Crown (ft)	Cover (ft)	Depth (ft)	HGL (ft)	EGL (ft)
Upstream	1,868.86	1,871.86	1,870.36	1.50	1.15	1,870.01	1,870.08
Downstream	1,868.51	1,872.50	1,870.01	2.49	1.46	1,869.97	1,870.03

Messages:

Profile: Steep subcritical backwater profile (S1).

Profile: Hydraulic grade increases in downstream direction.

Section Material: Aluminum Section Shape: Circular Section Size: 18 inch Number Sections: 1

Description			Description		
Discharge	5.20	cfs	Capacity	20.51	cfs
Mannings Coefficient	0.024		Hydraulic Drop	0.65	ft
Length	5.00	ft	Energy Slope	0.130000	ft/ft
Constructed Slope	0.130000	ft/ft	Upstream Velocity	4.84	ft/s
Upstream Flow Time	1.51	min	Average Velocity	4.84	ft/s
Pipe Flow Time	0.02	min	Downstream Velocity	4.84	ft/s
System Flow Time	1.52	min			

Grade Elevations

Location	Invert (ft)	Ground (ft)	Crown (ft)	Cover (ft)	Depth (ft)	HGL (ft)	EGL (ft)
Upstream	1,866.15	1,869.00	1,867.65	1.35	0.88	1,867.03	1,867.39
Downstream	1,865.50	1,869.00	1,867.00	2.00	0.88	1,866.38	1,866.74

Messages:

Profile: Steep subcritical backwater profile (S1).

Profile: Critical depth assumed upstream.

Profile: Hydraulic jump formed.



APPENDIX H

Riprap Sizing Per Arizona Department of Water Resources SSA 7-98 Figure 1 ARIZONA DEPARTMENT OF WATER RESOURCES FLOOD MITIGATION SECTION



Watercourse Bank Stabilization

500 North Third Street Phoenix, Arizona 85004

(602) 417-2445

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STATE STANDARD ATTACHMENT SSA 7-98

(

MAY 1998



CITY OF SCOTTSDALE GENERAL NOTES FOR PUBLIC WORKS CONSTRUCTION

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.

- 2. THE CITY ONLY APPROVES THE SCOPE, NOT THE DETAIL, OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
- 3. THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF ASSOCIATED PERMIT HAS NOT BEEN ISSED FOR THIS TIME FRAME, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- 4. A CITY INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF SCOTTSDALE. NOTIFY INSPECTION SERVICES 72 HOURS PRIOR TO BEGINNING OF WORK.
- 5. WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER 811, TWO WORKING DAYS BEFORE EXCAVATION BEGINS.
- 6. PERMISSION TO WORK IN THE RIGHT-OF-WAY (PWR) PERMIT ARE REQUIRED FOR ALL WORK IN THE RIGHT-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PERPOSED. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDAITE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.

FLOOD INSURANCE RATE MAP INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (Inbox Date)	FIRM ZONE	BASE FLOOD ELEVATION (In AO Zone, Use Depth)
045012	1310 7/20/21	М	7/20/21	AE	1872.00

Add: LFF = BFE FEMA = BFE Existing Conditions = RFE =

OWNER/DEVELOPER

ATLANTIC DVELOPMENT & INVESTMENTS, INC DBA/DOGGY STYLE RESORT & DAYCARE, LLC 15957 N. 81st STREET #101 SCOTTSDALE, AZ 8526Ő C/O MADISON BREEN 480-299-5228 MADISON.BREEN@GMAIL.COM

<u>ARCHITECT</u>

CAWLEY ARCHITECTS 730 N. 52nd STREET SUITE 203 PHOENIX, AZ 85008 (602) 393-5060 CAWLEYARCHITECTS.COM

ESTIMATED QUANTITIES

 $CUT = 110 \ C.Y.$ $FILL = 1,820 \ C.Y$

NOTE: QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. CONTRACTOR SHOULD VERIFY ALL QUANTITIES BEFORE SUBMITTING BIDS. NO SHRINKAGE, EXPANSION, GROUND LOSS OR EXCAVATION IS ASSUMED.

ENGINEERS CERTIFICATION

THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ON THIS PLANS ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A ONE-HUNDRED YEAR STORM. AND ARE IN ACCORDANCE WITH CITY OF SCOTTSDALE REVISED CODE. CHAPTER 37-FLOODWAYS & FLOODPLAINS ORDINANCE.

<u>UTILITIES</u>

WATER: CITY OF SCOTTSDALE SEWER: CITY OF SCOTTSDALE ELECTRIC: ARIZONA PUBLIC SERVICE GAS: SOUTHWEST GAS TELEPHONE: COX COMMUNICATIONS CABLE TV: CENTURY LINK

UTILITY NOTE

LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON INFORMATION SUPPLIED TO THE SURVEYOR BY THE APPROPRIATE UTILITY COMPANIES. THE SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR OWNER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES.

<u>CIVIL ENGINEER</u>

KEOGH ENGINEERING, INC. 650 NORTH 137TH AVENUE #110 GOODYEAR, ARIZONA 85308 PHONE: 623-535-7260 EMAIL: KEOGH@KEOGHENGINEERING.COM CONTACT: DENNIS F. KEOGH

ASSESSOR'S PARCEL NO. APN 212-05-531

SITE AREA 41,388 S.F. =0.950 Acres

ZONING C-0

BENCHMARK

MARICOPA COUNTY ENGINEERING DEPARTMENT BRASS CAP IN HANDHOLE AT THE SOUTH QUARTER CORNER OF SECTION 11. TOWNSHIP 4 NORTH. RANGE 4 EAST, G&SRB&M, MARICOPA COUNTY, ARIZONA ELEVATION=1878.317 (NAVD88 DATUM)

I HEREBY CERTIFY THAT ALL ELEVATIONS REPRESENTED ON THIS PLAN ARE BASED ON THE ELEVATION DATUM FOR THE CITY OF SCOTTSDALE BENCHMARK PROVIDED ABOVE.

DISTURBANCE AREA 37,500 S.F.= 0.86 ACRES

LOT CO	VERAGE
OFFICE KENNEL	5,160 SF 4,440 SF
TOTAL	9,600 SF

<u>9.600 S.F.</u>= 23.1% 41,388 S.F.



<u>LEGEND</u>

	APN	
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	See IP	

ASSESSOR'S PARCEL NUMBER DRAINAGE EASEMENT MARICOPA COUNTY RECORDER MULTI-USE PEDESTRIAN PATH EASEMENT PUBLIC UTILITY EASEMENT RIGHT OF WAY TRAFFIC SIGNAL EASEMENT WATER EASEMENT SURVEY MONUMENT PROPERTY BOUNDARY CORNER EXISTING SEWER MANHOLE EXISTING FIRE HYDRANT EXISTING WATER VALVE EXISTING SPOT ELEVATION - PROPERTY LINE - EASEMENT LINE - STREET CENTERLINE - ADJACENT LOT OR R/W EXISTING 8" SEWER LINE EXISTING 8" WATER LINE EXISTING CONCRETE HATCH EXISTING PAVEMENT HATCH

Stormwater Review By: Nerijus Baronas, PE Phone 480-312-7072 Fax 480-312-9187 E-mail: nbaronas@ScottsdaleAZ.gov Review Cycle $\frac{1}{2}$ Date $\frac{4}{6}/23$

SHEET INDEX

SHEET 1: COVER SHEET SHEET 2: GRADING, DRAINAGE AND UTILITY PLAN SHEET 3: CROSS-SECTIONS AND DETAILS



NO CONFLICT SIGNATURE BLOCK					
UTILITY	UTILITY COMPANY	NAME OF COMPANY REPRESENTATIVE	TELEPHONE NUMBER	DA TE SIGNED	
ELECTRIC	APS		· · · · · · · · · · · · · · · · · · ·		
TELEPHONE	CENT. LINK				
NATURAL GAS	SW GAS		· · · · · · · · · · · · · · · · · · ·		
CABLE TV	COX				
OTHER	SRP				
OTHER	WATER RES.				
ENGINEER'S CER	RTIFICATION	- L earn			
HEREBY CERTIF	Y THAT ALL UT	ENGINEER OF RECORD ILITY COMPANIES LISTI DI ANS FOR REVIEW	ED ABOVE HAVE L	BEEN	

PROVIDED FINAL IMPROVEMENT PLANS FOR REVIEW, AND THAT ALL CONFLICTS IDENTIFIED BY THE UTILITIES HAVE BEEN RESOLVED. IN ADDITION, "NO CONFLICT" FORMS HAVE BEEN OBTAINED FROM EACH UTILITY COMPANY AND ARE INCLUDED IN THIS SUBMITTAL.

SIGNATURE

DATE

·		CIVIL A	PPROVAL		
	Review	& Recomn	nended App	roval by:	
Paving			Traffic	_	
G&D	· · ·		Planning		
W&S			Fire		
Ret. Walls					
	An				
Engineering Cool	rdination Mgr.	(or designed		Date	[

CERTIFICATION

I HEREBY CERTIFY THAT "RECORD DRAWING" MEASUREMENTS, AS SHOWN, WERE MADE UNDER MY SUPERVISION OR, AS NOTED, AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DENNIS F. KEOGH LAND SURVEYOR REGISTR	PATION #	10846	DATE	,	*
					CASE
	SHE	ET 1 OF	3		
	Steel	ESSIONAL FAC	ATLAN	ITIC DE	PREPARED FOR VELOPMENT & INVESTMENTS, INC
	ACCISTERS.	11305 ENNIS FRANK	CON		JAL GRADING & DRAINAGE AND UTILITY PLAN
Call at least two full working days		Pires 6/390			FOR CLE PEAK PET RESORT APN 212-05-531
before you begin excavation.	DRAWN BY	SPK/MDK/RMV			EAST PINNACLE PEAK ROAD TTSDALE, ARIZONA 85255
Arizona Blue Stake, Inc. al 8-1-1 or 1-800-STAKE-IT (782-5348)	CHECKE BY FIELD WORK B	DIK		H K	eogh Engineering, Inc. 650 N. 137TH AVENUE #110 • GOODYEAR, ARIZONA 85338 PHONE: (623) 535-7260 EMAIL: keogh@keoghengineering.com
In Maricopa County: (602) 263-1100	DATE	NOV., 2022	JOB NO.	22270	MAP NO. P-22270



CONSTRUCTION NOTES

- 1 STRUCTURE ON COMPACTED PAD
- (2) SAWCUT AND MATCH EXISTING PAVEMENT
- 3 6" SINGLE CURB, MAG DET. 222-A
- (4) 6" VERTICAL CURB, AND GUTTER MAG DET. 220-A
- 5) 2-1/2" AC OVER 6" ABC ASPHALT PAVEMENT
- 6 CATCH BASIN MAG DET. 535-F
- (7) TRASH BIN, SCOTTSDALE DET.
- 8 RETAINING FLOOD/ SCOUR WALL WITH VIEW FENCE ABOVE SEE DETAIL, SHEET 3
- (9) STORM DRAIN MANHOLE MAG DET. 520 WITH GRATED RIM
- (10) 18" STORM DRAIN HDPE PIPE
- 11) 24" STORM DRAIN HDPE PIPE
- (12) CONTECH CASCADE SEPARATOR SYSTEM MANHOLE BY 'CONTECH'
- (13) CONCRETE SIDEWALK SEE ARCHITECTS PLANS
- (14) HANDICAP RAMP
- (15) 12" STORM DRAIN HDPE PIPE
- (16) FORM SWALE
- CONNECT TO EXISTING 6" SEWER STUB FOR SEWER SERVICE
- 18 ACTIVATE EXISTING 2" WATER SERVICE STUB W/ 2" METER. RUN 2" WATER SERVICE TO STRUCTURE. COORDINATE WITH SCOTTSDALE WATER DEPARTMENT. REQUIRES 2" BACK FLOW PREVENTOR.
- (19) CONNECT TO EXISTING 4" FIRE SERVICE STUB. RUN 4" FIRE LINE TO STRUCTURE. COORDINATE WITH SCOTTSDALE FIRE MARSHALL. REQUIRES 4" BACK FLOW PREVENTOR.
- 20 FIRE DEPARTMENT CONNECTION

							SCALE $1^{"}=20'$ 0 10 20 40
IE_	TABLE			SHEE	T 2 OF	- 3	
VE	BEARING	LENGTH	/		SIONAL		PREPARED FOR
1	S89*59'18"E	40.00'		ALC I	FICATE	ATLANTIC DI	EVELOPMENT & INVESTMENTS, INC.
2	N00*00'42"E	115.69'		10 / ST.	1705		,, _,, _
3	N76°07'37"W	16.48'			1305	CONCEPT	UAL GRADING & DRAINAGE
4	NO0°00'42"E	12.28'			KEOGH		AND UTILITY PLAN
5	N03°37'59"E	41.56'		1 a 3.	11/28/21		FOR
5	S21°28'53"W	21.22'		AR	and IS		ACLE PEAK PET RESORT
			 	TSTPI	ONA, U.		APN $212-05-531$
					F. F.	7474	EAST PINNACLE PEAK ROAD
IRV	<u>E TABLE</u>			DRAWN BY SI	PK/MDK/RMV		OTTSDALE, ARIZONA 85255
JRVE	RADIUS	LENGTH	DELTA	CHECKED BY	DFK	K	Leogh Engineering, Inc.
C1	18.00'	13.34'	42°27'47"	FIELD			650 N. 137TH AVENUE #110 · GOODYEAR, ARIZONA 85338 PHONE: (623) 535-7260
2	20.00'	21.34'	61*08'40"	WORK BY	DJK		EMAIL: keogh@keoghengineering.com
				DATE N	IOV., 2022	JOB NO. 22270	MAP NO. P-22270





Demonstrate Hydrant spacing, existing and proposed (Fire Ord. 4283, 507.5.1.2) Demonstrate the location of the Fire Department Connection (Fire Ord. 4283, 912) Demonstrate the location of the Fire Riser room (DS&PM 6-1.504(1))



SHEET KEYNOTES

- (1) EXISTING UTILITY JUNCTION BOX
- (2) EXISTING CONCRETE HEADWALL TO REMAIN
- (3) RETAINING WALL SEE CIVIL DRAWINGS
- (4) EXISTING PARKING TO REMAIN, TYP.
- (5) EXISTING INTERIOR DRIVE TO REMAIN, TYP.
- 6 EXISTING LANDSCAPE TO REMAIN, SALVAGE AND REPLANT AS NEEDED SEE LANDSCAPE DRAWINGS
- 7 REFUSE ENCLOSURE PER CITY STANDARDS SEE SITE DETAILS
- 8 ASPHALT OVER ABC SEE CIVIL DRAWINGS AND GEO TECHNICAL REPORT
- (9) LANDSCAPING, TYP. SEE LANDSCAPE DRAWINGS
- 10 PROVIDE PAINTED PARKING STRIPING, ADA SIGNAGE, AND WALKWAY STRIPING PER CITY STANDARDS EXISTING LIGHT POLE TO REMAIN - PROTECT DURING DEMOLITION AND CONSTRUCTION PHASES
- (12) EXISTING DRIVEWAY TO REMAIN SEE CIVIL DRAWINGS
- EXISTING TRANSFORMER TO REMAIN SEE CIVIL AND ELECTRICAL DRAWINGS
- (14) EXISTING SIDEWALK TO REMAIN

 PROJECT:
ADDRESS:
OWNER:

SITE DATA

- SCOPE:
- LEGAL DESCRIPTION: ASSESSOR PARCEL NO.: 212-05-531 CURRENT ZONING: PROPOSED ZONING: SITE AREA: BUILDING AREA: STORIES: LOT COVERAGE: LANDSCAPE AREA: LANDSCAPE COVERAGE: 18.4% OCCUPANCY: CONSTRUCTION TYPE: V-B w/ A.F.E.S. ALLOWABLE AREA: CLEAR HEIGHT: STRUCTURAL DEPTH: BUILDING HEIGHT:

ALLOWED HEIGHT:

PINNACLE PEAK PET RESORT 7474 EAST PINNACLE PEAK ROAD SCOTTSDALE, AZ 85255 DOGGY STYLE RESORT & DAYCARE 15957 NORTH 81ST STREET, SUITE 101 SCOTTSDALE, AZ A NEW COMMERCIAL BUILDING SEE CIVIL C-O ESL C-1 ESL +/- 41,378 S.F. +/- 0.95 ACRES 9,600 S.F. GROSS TWO STORY 14.5% 7,607 S.F. В 33,102 S.F. (0.80 FAR) 14'-0"

3'-0" 28'-0" 36'-0" (PER C-1 ZONING)

PARKING CALCULATIONS

BUILDING AREA	A CALCULATION	5		
OCCUPANCY	1ST FLOOR		TOTALS	
OFFICE	5,160 S.F.		5,160 S.F.	
KENNEL	4,440 S.F.		4,440 S.F.	
TOTAL:	9,600 S.F.		9,600 S.F.	
REQUIRED PARKING CALCULATIONS				
OCCUPANCY	S.F.	FACTOR	TOTAL	
OFFICE	5,160 S.F.	1/300	17.2	
KENNEL	4,440 S.F.	-	-	
TOTAL:			17.2 = 18	
PARKING PROVIDED				
TOTAL REGULAR SPACES			30	
TOTAL ACCESSIBLE SPACES			2	
TOTAL SPACES ON SITE			32	

BICYCLE PARKING CALCULATIONS

RATIO	REQUIRED	PROVIDED		
1/25 PARKING SPACES	2	2		

LEGEND

	PROPERTY LINE
	EASEMENT / SETBACK LINE
	CAR OVERHANG, MEASURED FROM FACE OF CURB AS DIMENSIONED ON SITE PLAN
	6" CURB
	SITE WALL
	SALT FINISH CONCRETE SIDEWALK
	PAINT STRIPING ON PAVEMENT
•	NEW FIRE HYDRANT
\bullet	EXISTING FIRE HYDRANT
چې FDC	FIRE DEPARTMENT CONNECTION
\triangleleft	ACCESSIBLE ROUT / PATH OF TRAVEL
	FIRE RISER
A	SITE WALL, SEE SHEET A1.5 FOR SITE WALL SCHEDULE

VICINITY MAP N.T.S. HAPPY VALLEY ROAD LOS PORTONES SITE PINNACLE PEAK ROAD



730 N. 52nd St. Ste. 203 Phoenix, Arizona 85008 P 602.393.5060

CawleyArchitects.com



PINNACLE PEAK PET RESORT 7474 EAST PINNACLE PEAK ROAD SCOTTSDALE ARIZONA 85255 DATE **RE-ZONING SUBMITTAL** 2/21/2023

DRAWN BY: CF

OWNERSHIP OF DOCUMENTS: This drawing, including the architectural concept, design, and data, is an instrument of service and shall remain the property of Cawley Architects Inc. This drawing is for use at the location described herein and shall not be used in other locations. Any other use or release of these drawings may result in civil damages.

DISCREPANCIES AND CONFLICTS: All discrepancies found in these documents or conflicts between these documents and field conditions shall be reported to Cawley Architects Inc. for resolution before the commencement of the work.



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C.O.S. APPROVAL STAMPS

SITE PLAN