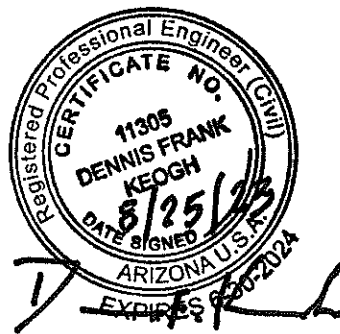


# WATER STATEMENT

FOR A PRIVATE WATER PLAN  
SERVING  
7474 E.PINNACLE PEAK ROAD  
SCOTTSDALE, AZ 85260  
**APN #212-05-531**

PINNACLE PEAK  
**“PET RESORT”**

Plan Check #  
QS #45-45



Prepared By  
**KEOGH ENGINEERING. INC.**  
650 N. 137<sup>TH</sup> Avenue Suite 110  
Goodyear, Arizona 85338

Job No. 22270  
August 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 Peak 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 conform to the City of Scottsdale and MCESD requirements.

### **Design Statement:**

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

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. An existing fire hydrant is located within 215' +/- of the FDC. No new fire hydrants are deemed necessary. See Water Exhibit.

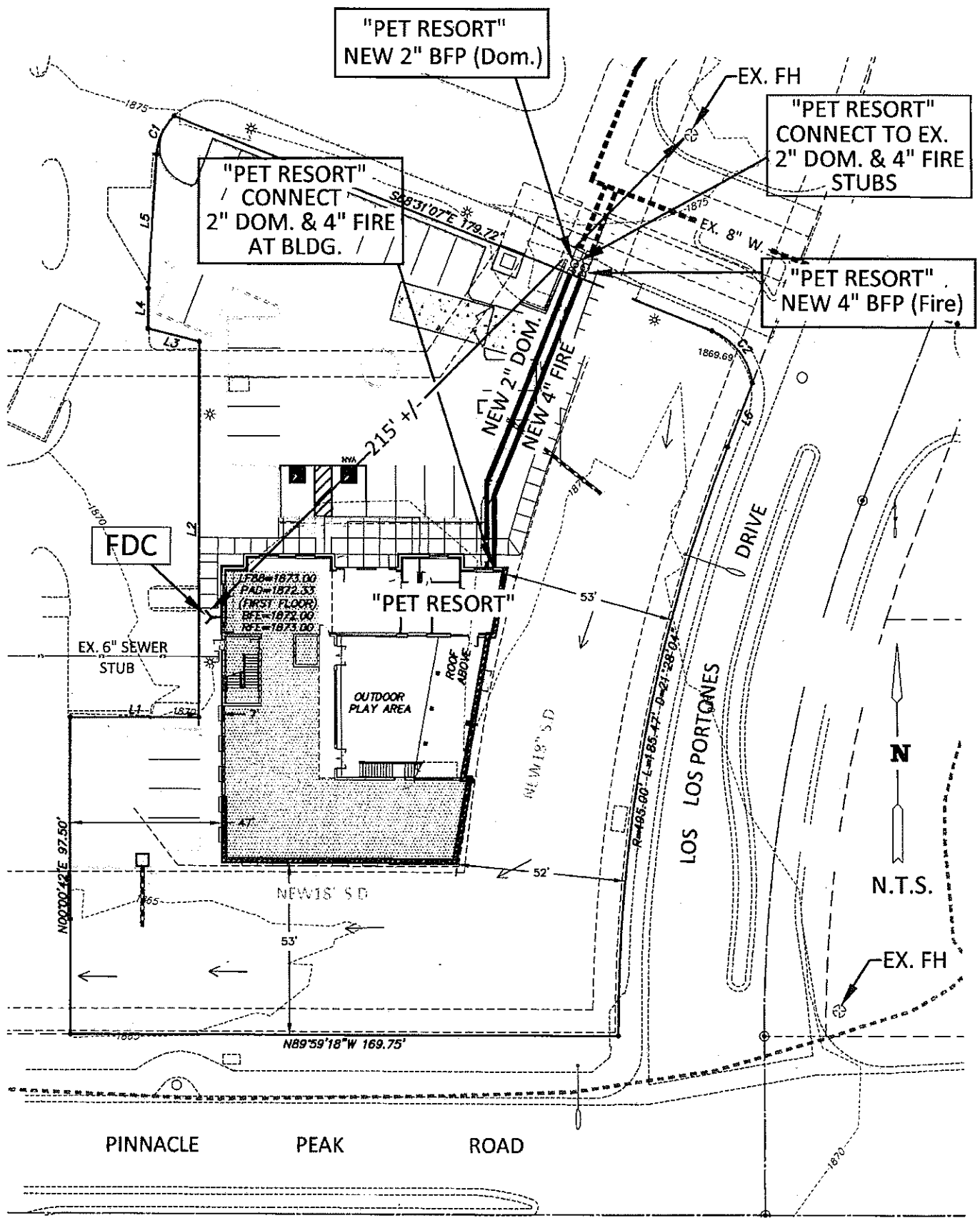
### **ESTIMATED QUATITIES:**

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





L:\22270\WATER MEMO\22270-PET RESORT WATER MEMO 2-16-23 LONG WATER MEMO EXHIBIT (09-24-23 1:36:16PM) RUDY-150



# Keogh Engineering, Inc.

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

DESIGNED DFK/RMV	DATE 8-22-23	JOB NO. 22270
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## WATER MEMO

## "PINNACLE PEAK PET RESORT" WATER EXHIBIT

7474 E. PINNACLE PEAK ROAD  
SCOTTSDALE, ARIZONA 85255

# Arizona Flow Testing LLC

## HYDRANT FLOW TEST REPORT

Project Name:	Not Provided
Project Address:	7474 East Pinnacle Peak Road, Scottsdale, Arizona, 85255
Client Project No.:	Not Provided
Arizona Flow Testing Project No.:	23092
Flow Test Permit No.:	C71323
Date and time flow test conducted:	February 6, 2023 at 7:00 AM
Data is current and reliable until:	August 6, 2023
Conducted by:	Floyd Vaughan-Az Flow Testing, LLC (480-250-8154)
Witnessed by:	Sonny Schreiner - City of Scottsdale-Inspector (602-819-7718)

### Raw Test Data

Static Pressure: **92.0 PSI**  
(Measured in pounds per square inch)

Residual Pressure: **40.0 PSI**  
(Measured in pounds per square inch)

Pitot Pressure: **17.0 PSI**  
(Measured in pounds per square inch)

+

Diffuser Orifice Diameter: One 4-inch Pollard Diffuser  
(Measured in inches)

Coefficient of Diffuser: 0.9

Flowing GPM: **1,772 GPM**  
(Measured in gallons per minute)

GPM @ 20 PSI: **2,112 GPM**

### Data with 20 PSI Safety Factor

Static Pressure: **72.0 PSI**  
(Measured in pounds per square inch)

Residual Pressure: **20.0 PSI**  
(Measured in pounds per square inch)

Approx. distance between hydrants: 340 Feet

Main size: Not Provided

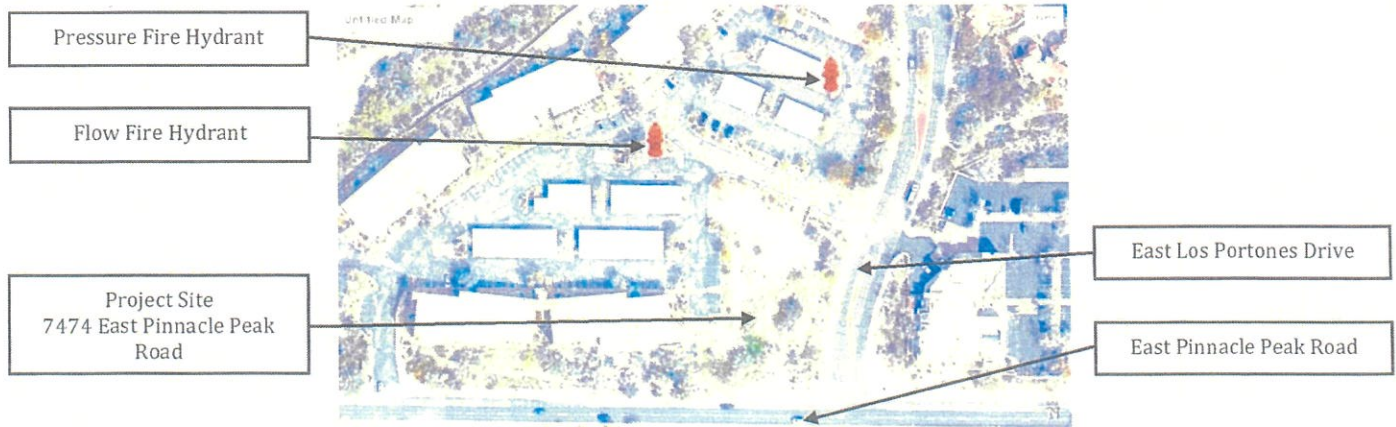
Flowing GPM: **1,772 GPM**

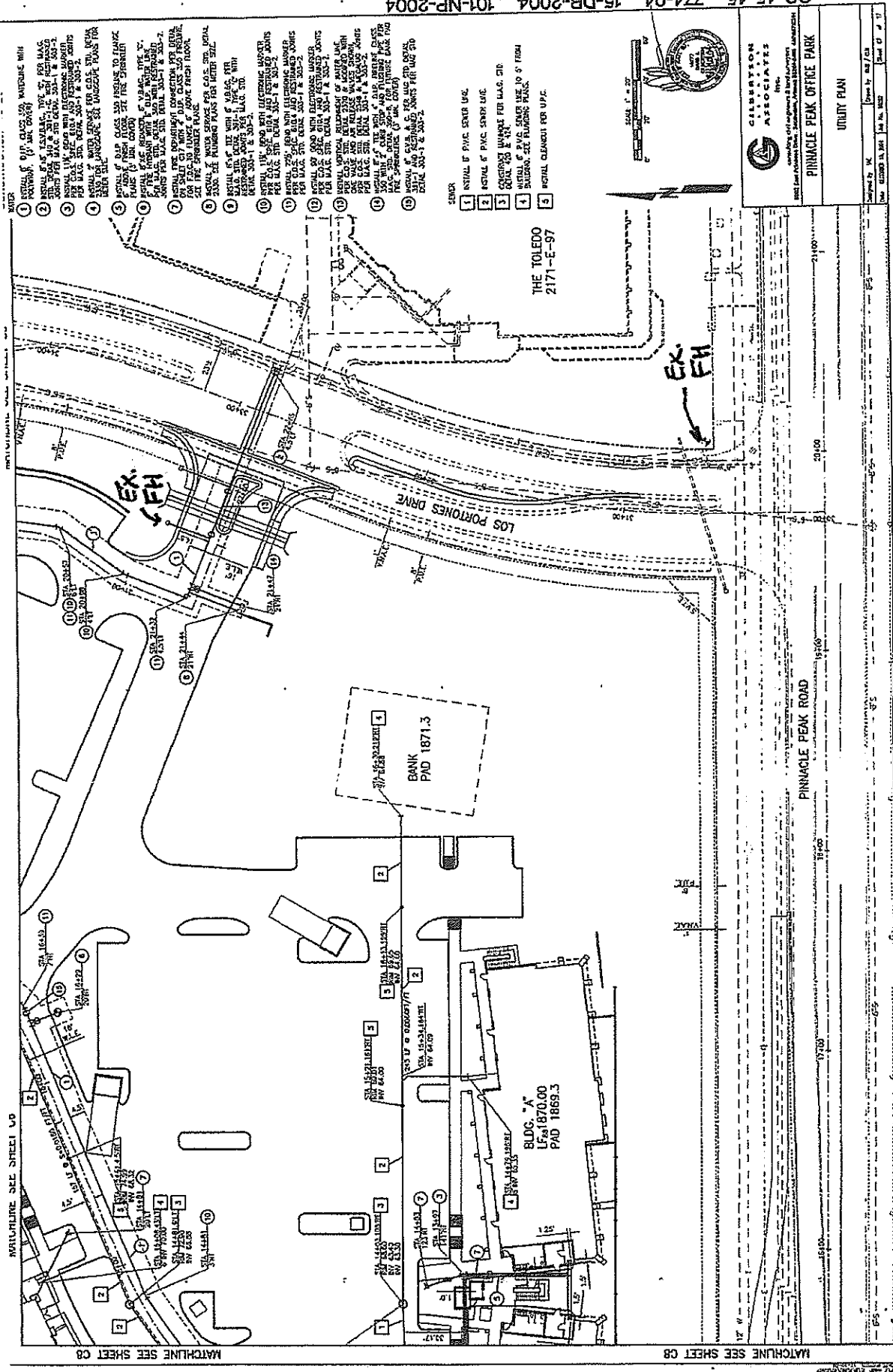
GPM @ 20 PSI: **1,772 GPM**

Scottsdale requires a maximum Static Pressure of 72 PSI for AFES Design.

### Flow Test Location

North ↑





**GILBERTSON ASSOCIATES**  
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WWW.GILBERTSON-ASSOCIATES.COM

**PINNACLE PEAK OFFICE PARK**

**UTILITY PLAN**

Drawn by: JAC  
Checked by: JAC  
Date: 03/09/04

MATCHLINE SEE SHEET C8  
MATCHLINE SEE SHEET C8  
MATCHLINE SEE SHEET C8