

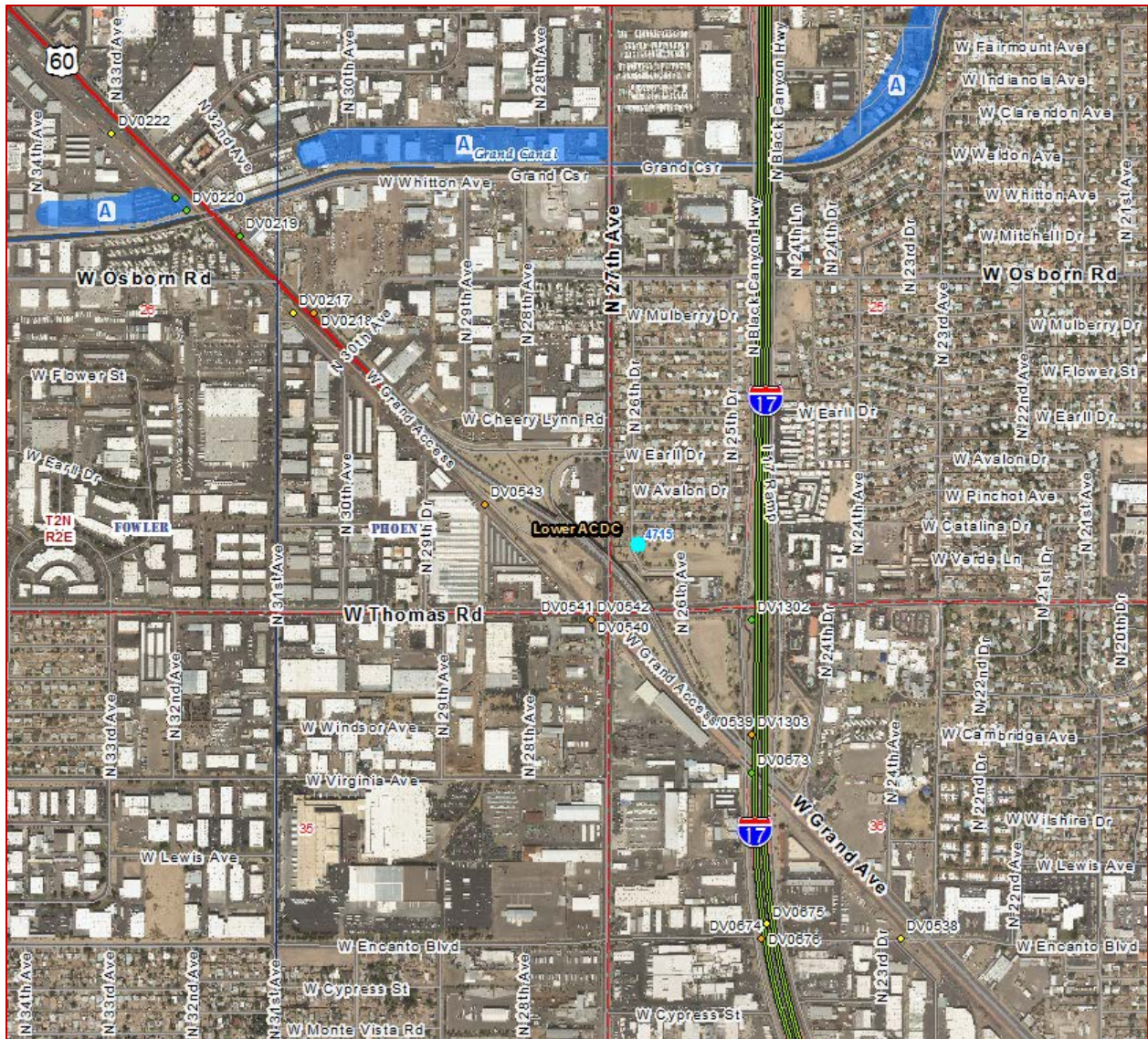
# Verde Ln. 26<sup>th</sup> Ave Basin

FCD Stage ID # 03807, ALERT2 Station ID = 50038

## Station Description

### Location

The station is located on a basin at the northeast corner of Baseline and 43<sup>rd</sup> Avenue. The station is located at latitude 33° 28' 54.8" and longitude W112° 06' 58.6". It is in S25, T2N, R2E.



### Establishment

The gage was established on October 6, 2015.

### Drainage Area

The drainage area of the gage is undetermined.

### History

No previous level gaging at this location. Previously, a rain only gage has existed near this location for many years. Level station established on October 6, 2015. The rain station and level sensors were moved to a lower culvert about 50 feet south of the previous location. The move occurred on March 21, 2017.

### Gage Information

There is one pressure transducer instrument located at the left, west end of the basin. It is at 0.45 feet gage height.

### Zero Gage Height

Zero is currently defined as the elevation of the invert of the middle inlet, 0.000 feet gage height, levels of October 13, 2015. This outlet is just north of the gaged outlet. It is at elevation 1,089.014 feet NAVD88.

### Reference Marks

BM #03807 is an FCDMC brass cap located near the station tube at the top of the west end of the basin. It is at elevation 8.625 feet gage height, levels of March 22, 2017, and 1,097.639 feet NAVD88, levels of March 29, 2017.

RP-1 is a chiseled 'x' located on the headwall of the right (north) inlet. Elevation is 8.845 feet gage height and 1,097.859 feet NAVD88, levels of March 22, 2017.

RP-2 is a chiseled 'X' located on the left wingwall of the currently gaged outlet. It is at elevation 2.972 feet gage height and 1,091.986 feet NAVD88, levels of March 22, 2017.

RP-3 is the top of the left bolt protruding from the headwall just above the gaged outlet. It is at elevation 3.222 feet gage height and 1,092.236 feet NAVD88, levels of March 22, 2017.

### Channel and Control

The gage is installed at the outlet of the basin near southwest corner of the basin. The culvert is under inlet control, but no other information is available for the outlet. It is a 15-inch diameter pipe with unknown length. It is limited to maybe 20 cfs at most.

### Rating

A discharge rating was estimated from approximate pipe data. The discharge is limited to about 20 cfs.

A basic volume rating was created using basin area from an aerial photo, and from depth from the survey in October. The channel is considered uniform at this time until additional information is made available, or computed from GIS data.

### **Discharge Measurements**

Discharge measurements are not possible at this location.

### **Point of Zero Flow**

The point at which flow begins is invert of the middle culvert. The invert (PZF) of the gaged pipe is at about 0.00 feet gage height.

### **Floods**

The largest event recorded occurred on August 14<sup>th</sup>, 2021. The PT measured 4.22 ft relating to 14.4-acre feet of inundation and 38.9% capacity.

### **Regulation**

The basin regulates water flow.

### **Diversions**

No diversions are anticipated to be found in the watershed.

### **Accuracy**

No accuracy at this time.

### **Justification**

Provide level data in this basin for flood warning for the city of Phoenix.

### **Updated:**

January 18, 2024

E.S. Thomas