

Appendix D

HILLS EVALUATION

Airport Master Plan
Phoenix Deer Valley Airport

The landscape surrounding the Phoenix Deer Valley Airport must be considered when planning airport improvements. Of particular interest are the hills located to the east of the airport. These hills potentially impact the development of instrument approaches to the airport and the development of a third parallel runway. During the master planning process it became evident that the exact status of each of the hills should be documented. **Exhibit D1** presents an aerial photograph of the airport with each hill that could potentially impact the airport labeled. The following is a summary of the status of each of these hills as of November 2006.

H-1

Ownership: Arizona State Land Department (ASLD)

Height: 1,570 feet mean sea level (MSL)

Obstruction Light: Yes, on leased parcel.

Sonoran Preserve: Outside of Sonoran Preserve boundary.

Current Status: ASLD has issued permit to F& F Construction to use the hill for borrow for Deer Valley Road extension.

Master Plan Impact:

- No Threshold Siting Surface (TSS) Impacts.
- Penetrates Part 77 transition surface by 20 to 30 feet.
- Penetrates Runway 7R Departure Surface by 45 feet.

Third Runway Impact: No impacts.

LEGEND

- Airport Property Line
- Parcel
- Phoenix City Limit
- Sonoran Preserve Master Plan 1998
- Hill
- Undeveloped and Unamed Parks
- ASLD Arizona State Land Department
- MCFD Maricopa County Flood Central Department
- HOA Home Owner's Association

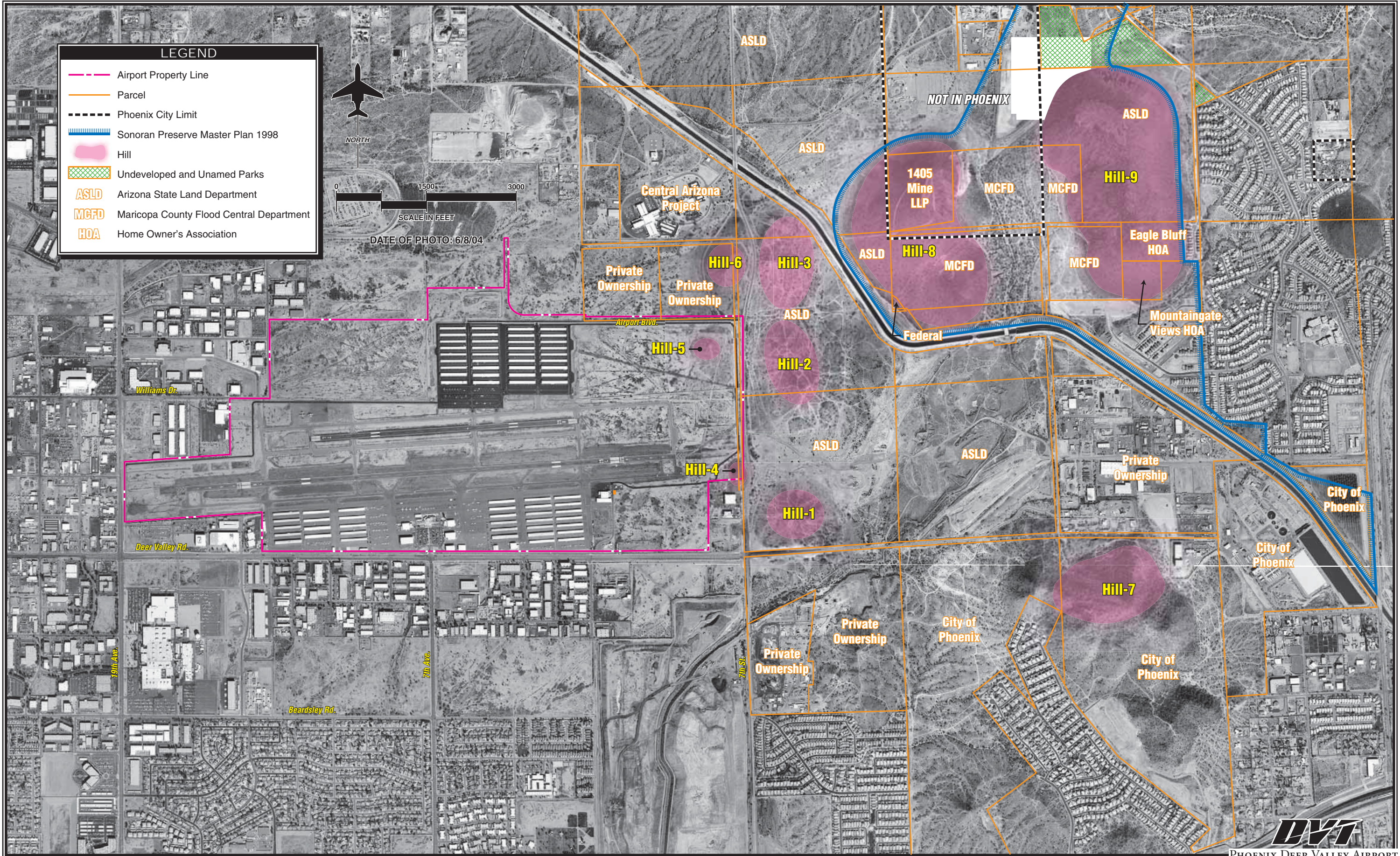
NORTH



0 1500 3000

SCALE IN FEET

DATE OF PHOTO: 6/8/04



H-2

Ownership: Arizona State Land Department (ASLD)

Height: 1,620 feet MSL

Obstruction Light: Yes, on leased parcel.

Sonoran Preserve: Outside of Sonoran Preserve boundary.

Current Status: ASLD has issued permit to F& F Construction to use the hill for borrow for Deer Valley Road extension.

Master Plan Impact:

- Contributes to Current Runway 25L threshold displacement.
- Penetrates Planned Runway 25L 34:1 TSS by 65 feet.
- Penetrates Runway 7R Departure Surface by 45 feet.
- Penetrates Planned Runway 25R 20:1 TSS by 45 feet.
- Penetrates Planned Runway 7L Departure Surface by 100 feet.

Third Runway Impact: No impacts.

H-3

Ownership: Arizona State Land Department (ASLD)

Height: 1,600 feet MSL

Obstruction Light: No

Sonoran Preserve: Outside of Sonoran Preserve boundary.

Current Status: ASLD has issued permit to F& F Construction to use the hill for borrow for Deer Valley Road extension.

Master Plan Impact: No Impacts.

Third Runway Impact:

- Penetrates 20:1 TSS by 10 feet.

H-4

Ownership: City of Phoenix (Deer Valley Airport)

Height: 1,500 feet MSL

Obstruction Light: No.

Sonoran Preserve: Outside of Sonoran Preserve boundary.

Current Status: F& F Construction is testing content with interest in removing at no cost to the airport.

Master Plan Impact:

- Within extended Runway 7R-25L safety area (RSA) and object free area (ROFA).
- Contributes to Current Runway 25L threshold displacement.
- Penetrates Planned Runway 25L 34:1 TSS by 10 feet.
- Penetrates Runway 7R Departure Surface by 10 feet.

Third Runway Impact: No impacts.

H-5

Ownership: City of Phoenix (Deer Valley Airport)

Height: 1,520 feet MSL

Obstruction Light: No.

Sonoran Preserve: Outside of Sonoran Preserve boundary.

Current Status: None.

Master Plan Impact:

- No TSS penetrations.
- Near eastern edge of planned north side T-hangar development.

Third Runway Impact: No impacts.

H-6

Ownership: Airpark 30, LLC

Height: 1,510 feet MSL

Obstruction Light: No.

Sonoran Preserve: Outside of Sonoran Preserve boundary.

Current Status: Recently mined for materials.

Master Plan Impact: No impacts.

Third Runway Impact: No impacts.

H-7

Ownership: City of Phoenix

Height: 2,075 feet MSL

Obstruction Light: Yes, on City-owned property.

Sonoran Preserve: Outside of Sonoran Preserve boundary.

Current Status: No current plans.

Master Plan Impact:

- No TSS penetrations.
- Penetrates Runway 7R Departure Surface by 315 feet

Third Runway Impact: No impacts.

H-8

Ownership: 1405 Mine, LLP; Maricopa County Flood Control District

Height: North Peak - 1,927 feet MSL; South Peak - 1,700 feet MSL

Obstruction Light: Yes (north peak), on small parcel owned by City.

Sonoran Preserve: Within Sonoran Preserve boundary.

Current Status: 1405 Mine, LLP is presently mining its property on the north side of the hill. This portion is outside of City limits and mining permits were approved by Maricopa County.

Master Plan Impact:

- No TSS penetrations.
- South Peak penetrates Runway 7R Departure Surface by 100 feet.
- Penetrates Planned Runway 7L Departure Surface by 105 feet.

Third Runway Impact:

- North Peak Penetrates 20:1 TSS by 235 feet.

H-9

Ownership: ASLD; Maricopa County Flood Control District; Eagle Bluff Home-owners Association; Mountain Gate Views, LLC

Height: North Peak - 1,943 feet MSL; South Peak – 1,938 feet MSL

Obstruction Light: Yes, but no known parcel lease or ownership.

Sonoran Preserve: Within Sonoran Preserve boundary.

Current Status: City of Phoenix has made application to ASLD to acquire the property as part of a voter-approved Sonoran Preserve initiative. Archaeological surveys are currently underway. The City has interest in preservation of parcels under other ownership.

Master Plan Impact:

- No TSS penetrations.
- South Peak penetrates Runway 7R Departure Surface by 250 feet.
- Penetrates Planned Runway 7L Departure Surface by 105 feet.

Third Runway Impact:

- North Peak penetrates 20:1 TSS by 55 feet.
- South Peak penetrates 20:1 TSS by 50 feet.