Fountain Hills, Arizona

Context map of Fountain Hills, Arizona

Fountain Hills, Arizona

Urban Revitalization through Urban Agriculture and Art Park

Fountain Plaza and Art Gardens

General Information

- Population: 23,000
- Founded: December 15, 1970
- Landsize: 20.32 sq. mi.
- Altitude: 1,525 to 3,160 feet above sea level
  (500 feet over Phoenix)
- Mountain Ranges surrounding: Scottsdale Mountains, McDowell Mountains, Superstitions Mountains
- Interesting Feature: Fountain Park Fountain runs for 15 minutes, every hour from 9 a.m. to 9 p.m.
  The fountain shoots an average of 330 ft. with a max height of 550 ft.

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Fountain Plaza and Art Gardens

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Site Information

- Site: 15 Acres
- Land Type: Undeveloped Desert
- Major Roads Surrounding: Ave of the Fountains, and Suguaro Boulevard
- Plants: Volunteer Plants, No Formal Plantings on the Site
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Concept Progression

Farm

Plaza

River and Gardens
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From the research collected, the average production plant needs 1 to 2 inches of water per week. The average rainfall in Fountain Hills per month is 1 inch. It will take roughly 5 square feet of rain water collection for every square foot of plantings to allow enough water for the plant to survive.

By using the water runoff from the hardscapes and buildings, 82,600 sq ft of area was designed to collect water. The planter area amounts to 3,300 sq ft and the orchard area is 3,400 sq ft. There is 6,700 sq ft of planting area. Multiply that number by 5, and you get 33,500 sq ft of collection needed. The design can support and is able to collect extra water and store on site underground and use it at a later time.

82,600 sq ft of Rain Water Collection
3,300 sq ft of Planters
3,400 sq ft of tree line
5 sq ft of collection for every 1 sq ft of planters

3,300 sq ft + 3,400 sq ft = 6,700 sq ft
6,700 sq ft x 5 = 33,500 sq ft
33,500 = 82,600

Rainfall
High Temperature
Low Temperature

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Native Plants
- Asparagus
- Basil
- Blackeyed Peas
- Bok Choy
- Broccoli
- Brussels Sprouts
- Carrot
- Cauliflower
- Celery
- Cucumber
- Endive
- Garlick
- Kale
- Lettuce
- Lime Tree
- Onion
- Peach Tree
- Pomegranate
- Mesquite Tree
- Palo Verde Tree
- Saguaro Cactus
- Aloe Plant
- Barren Cactus
- Mexican Fan Palm Tree
- Yacon
- Prickly Pear
- Snowberry Hedgehog
- Organ Pipe Cactus

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Plants Schedule and Rainfall and Average Temperatures

Rain Water Collection
- Rainfall
- High Temperature
- Low Temperature

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Examples of Art on the Art Walk
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Fountain Plaza and Art Gardens

Program

- Completing the Avenue of the Fountains Streetscape to further promote commerce and draw visitors to Fountain Hills.
- Design an Urban Agriculture installation that generates produce for area businesses and for a local farmers market to start.
- Harvest storm water to be reused as the main source of irrigation for the plants on this site.
- Further develop the existing Fountain Hills Art Walk and introduce new art into the landscape through sculptures, shade structures and plant specimens.
- Create a connection between Fountain Park (across the street) and Fountain Plaza and Art Gardens for community events to be held simultaneously between the two.
- Design a plaza and open spaces for events to be held at a community and individual scale.

Art and Ancient Symbols  Urban Agriculture and Art Gardens
Fountain Plaza and Art Gardens

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Tree Rain Sculptures
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Urban Planters
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Active Grass Area
Fountain Plaza and Art Gardens

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Questions?