

The Building

Occupant Type: A-3, B, M,
48,600 square feet

Two level building, one level above grade

This cultural center is a mixed-use occupancy with museum, auditorium, classrooms, offices, and art rooms.

The Team

Architecture/Engineering done by SmithGroupJJR

Project Manager: Kent Willcox

Design Architect: Mark Roddy

Architect: Eric Watson

Architect: Ben Ayers

Electrical Engineer: Mark Greenawalt

Mechanical Engineer: Jon Silhol

Interiors: Kai Ekbundit

Landscape: Rick Jones

Civil Engineering: Coe & Van Loo Consultants Inc.

Structural Engineering: Caruso Turley Scott Inc.

Construction: Brignall Construction

Museum Design: BRC Imagination Arts

Audio Visual: Convergent Technologies

Construction and Cost

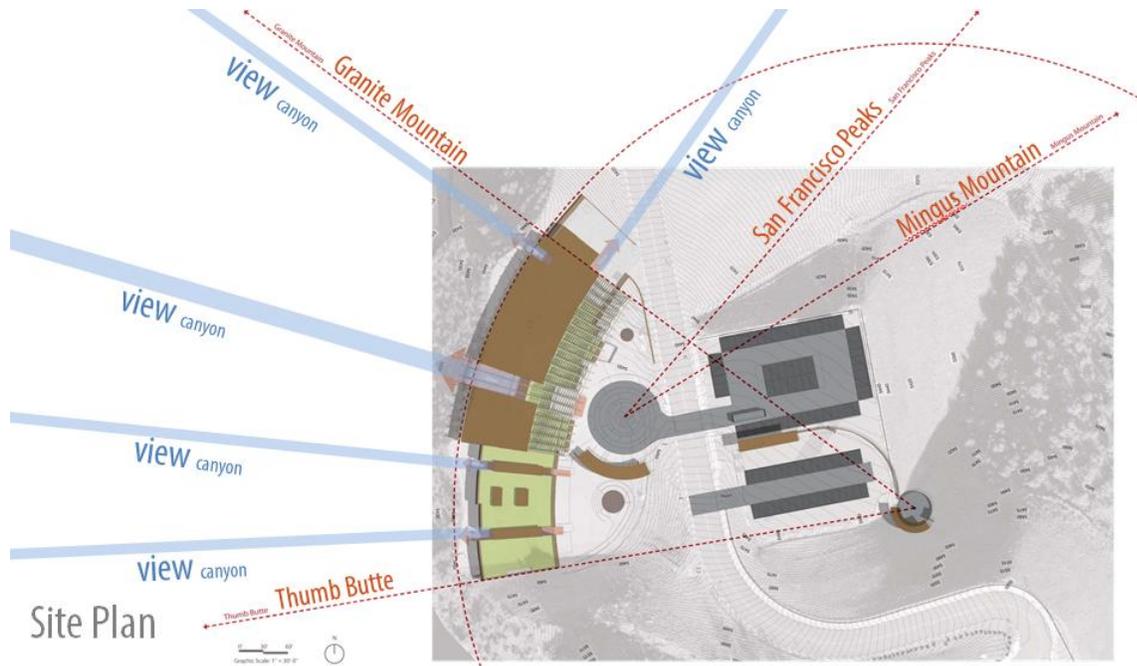
Project has been placed on indefinite hold by the Owner and this information is not available at this time (Dates of Construction, Actual Cost, Project Delivery Method).

Architecture

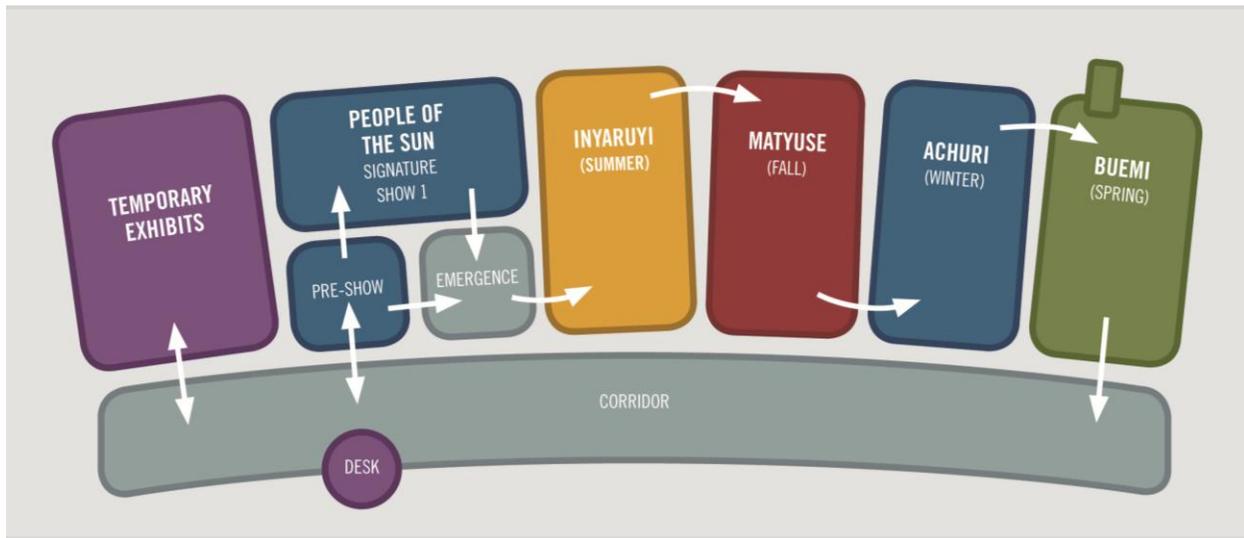


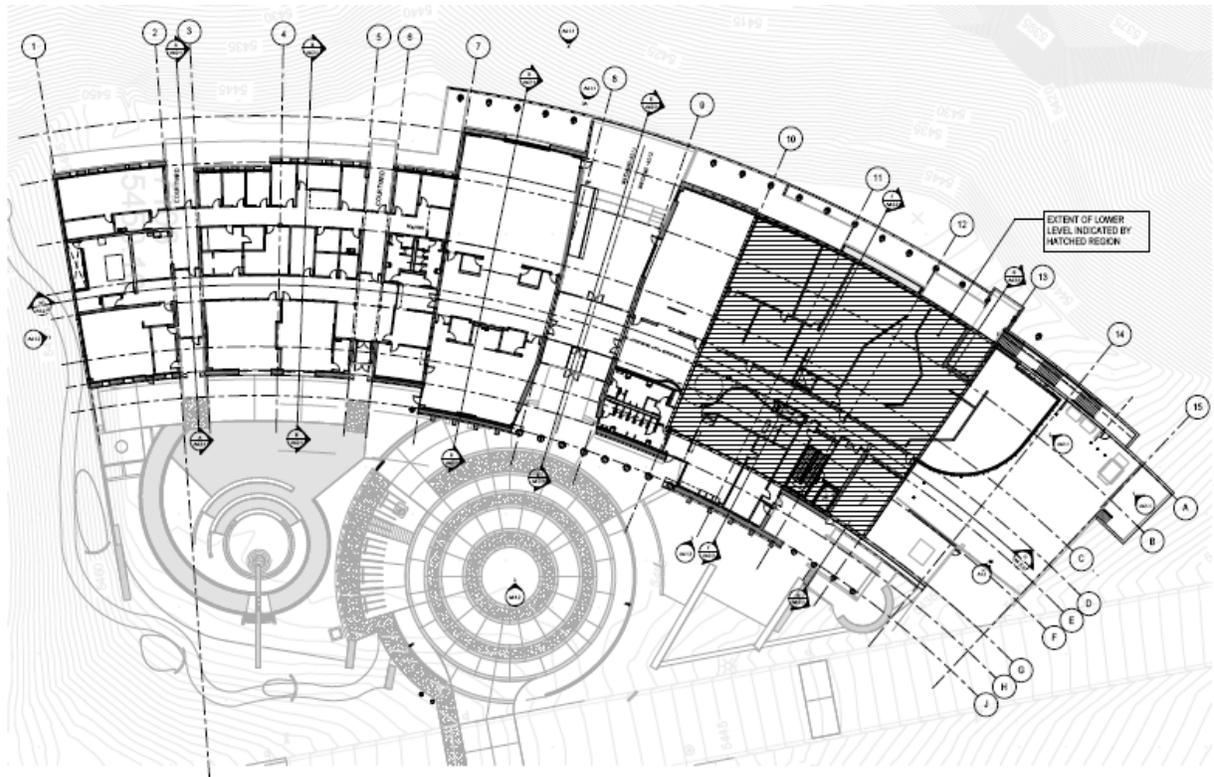
As if emerging from the hillside, the architecture is designed to welcome visitors to learn about the Arizona tribe's culture by telling the story of their history. The cultural center houses educational spaces, a museum, and a gift shop. The materials used in the design are natural and neutral, using wood and stone. The contemporary style also makes use of steel, metals, and glass. Large shading devices shaped like a basket weave were implemented throughout as a daylight control technique as well as

aesthetic element. The site plan and landscape architecture is also an integral component in the architectural design because it is of the tribe's culture to enjoy and respect the land.



Below is a basic example of the design for the museum exhibits, and it demonstrates the importance of flow and progression.





Ground Floor Plan [NOT INTENDED TO BE READ]

The curved shape draws you into the heart of the ground level, where the entry lobby is. To the left is the educational component with classrooms, craft centers, workshops and offices. To the right is the museum component where tribe members and the public can come and learn about the tribe's culture and heritage.

Mechanical rooms, archive storage, and receiving areas are housed on the basement level of the building.

Major National Model Codes: IBC 2006, NFPA 2009, NEC 2008

Zoning: Indian Reservation

Maximum allowable height: 55ft

Maximum number of stories: 2 Stories

Arizona Dark Sky regulations

Historical Requirements: n/a

Building Enclosure



Exterior Wall Composition

A From exterior to interior, the wall composition consists of stone masonry (field stone), concrete masonry units, cast-in-place (boardform) concrete, thermal batt insulation, 6" metal stud framing, and gypsum board.

B Storefront System (Glazed Aluminum Curtain Wall)

The exterior walls of the northwest side of the building are composed of cast-in-place concrete, 3 5/8" metal stud framing, thermal batt insulation, and gypsum board (listed from exterior to interior surface.)

Roofing Materials

The lower roofing system consists of a Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing on top of 1/2" plywood roof sheathing with a layer of insulation.

The upper roofing consists of two layers of sheet metal roofing on top of 1/2" plywood roof sheathing with a layer of insulation.

Sustainability Features

Daylight harvesting and control was a major topic explored due to the location in Arizona.