

## TERMINAL HANGAR FACILITY (THF) FACTS

- Site Area: 670,000 sq. ft. including apron
- Terminal Hangar Facility Gross Area: 110,152 sq. ft.
  - **Western Zone:** 25,597 sq. ft.
  - **Hangar:** 47,000 sq. ft.
  - **Public Viewing Gallery:** 4,000 sq. ft.
  - **Eastern Zone:** 29,419 sq. ft.
  - **Viewing Balcony:** 1,712 sq. ft.
- The building is structural steel with three floors on the east and west sides.
- Highest point: 60 feet

### **Western Zone of the Terminal & Hangar Facility**

- Houses support and administrative facilities for Virgin Galactic and the New Mexico Spaceport Authority visitor area.
- West elevation consists of a large earthen mound with a mechanically stabilized earth retaining wall. This type of retaining wall has never been used to create a wall that will also serve as part of the building. The earthen mounds contain approximately 2,000 linear feet of earth tubes which will help pre-condition the ambient air as it enters the building HVAC system.

### **Central Zone of the Terminal & Hangar Facility**

- Double-height hangar is the operational heart of the facility containing up to two WhiteKnightTwo and five SpaceShipTwo aircraft.
- The north and south exterior elevations, which primarily include the two custom hangar doors, will consist of large pre-weathered metal panels that span 170 ft. wide openings

## **Eastern Zone of the Terminal & Hangar Facility**

- Principal operational training area, departure lounge, spacesuit dressing rooms and celebration areas. The restaurant and mission control room have direct east views across the apron, runway and landscape beyond.
- The east exterior elevation will consist of an angled glass curtain wall.

## **Sustainability - Designed to achieve LEED Gold**

- Earth Tubes under the earth berm to pre-condition outside air for passive cooling/heating
- Passive natural lighting
- Low-e glazing on glass curtain wall to reduce heat transmission
- Underfloor radiant cooling and heating
- Natural ventilation in mid season
- 100% reuse of treated wastewater for non-potable uses
- Building materials and components that improve air quality, visual comfort, and reduce sick building syndrome

## **Unique features of the THF:**

- THF incorporates an airplane hangar and passenger terminal in the same building.
- The roof structure consists of undulating steel trusses spanning over 200 ft, which create a uniquely shaped roof.
- The shape of the building is circular so nearly everything is built off of radius dimensions.
- Custom entry doors
- Earth tube system in earth mounds to the west
- Colored stainless steel bull nose edge around the perimeter of the roof
- Steel bridge structure that connects the 3<sup>rd</sup> floor on the west to the 3<sup>rd</sup> floor on the east side.
- The THF will be the focal point of the Spaceport America campus and the headquarters of Virgin Galactic's operations.

**Scheduled construction completion date: 2011**

**Contractor:** Summit West of Albuquerque is the Prime Contractor on the THF

- Summit West is incorporated in NM and has been licensed and building projects throughout New Mexico since 1987.
- Summit West manages the construction process which includes hiring of subcontractors and suppliers, scheduling, quality control, and coordination with all of the subcontractors.
- Summit West has over 40 subcontractors and suppliers working on the project.

**Contractor:** Construction manager is Gerald Martin Construction Management of Albuquerque.

- Gerald Martin serves as the Construction Manager and Owner's Representative for the entire Spaceport America project, not just the THF.
- Gerald Martin has been working in construction in New Mexico for more than 35 years.
- Gerald Martin oversaw the completion of the spaceport design and construction drawings, and now actively manages all 13 prime contractors onsite on behalf of the New Mexico Spaceport Authority.

**Contractor:** David Montoya Construction, Inc. (DMCI) of Albuquerque is Prime Contractor for the apron and the airfield.

- DMCI was founded in 1985 and continues to be a family owned business run by David Montoya and his wife Pam.
- DMCI acts as both a general contractor and subcontractor in completing projects for both private and public clients employing almost 150 people.
- DMCI produced its own concrete and asphalt using onsite batch plants and local materials sourced from Priser Hill, located five miles to the south near the vertical launch area.

**Airfield information:**

- The apron is the circular area around the THF where the spacecraft will be parked, unloaded or loaded before and after flight.
- The apron has 47,000 square yards of surface area, made up of 18,000 cubic yards of Portland Cement concrete, 11,000 tons of asphalt, and 8,000 cubic yards of soil cement in 14", 4", and 6" layers respectively.
- Another 18" of additional prepared subgrade soil underneath make up the same 42" paving cross-section as found on the main airfield.
- The airfield is 332,000 square yards and includes a concrete runway 200 feet wide by 10,000 feet long, as well as taxiways and related drainage and signage.

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