PHX Sky Train
Past, Present & Future

City of Phoenix Aviation Department
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Ride the Train

- Purpose & Need
- Terminal Stations
- Taxiway ‘R’
- Future Stations
- Future Taxiway Crossings
- Ground Transportation Centers
- Rental Car Center
Purpose: PHX Sky Train

- Balance Airport Systems
- Connect Sky Harbor Facilities
- Increase Passenger Level of Service
- Enhance the Community
- Landside Capacity (51 annual million passengers)
Sky Harbor Boulevard & Terminal Curbs

• Relieve Terminal Curbfront & Roadway Congestion
  • Reduce Busing Operations
  • Provide Alternative Transportation to Terminals (Ground Transportation Centers)
  • Transportation between Terminals
  • Transportation to Parking & Transit Facilities
PHX Sky Train – Past, Present & Future
Driverless Sky Train Vehicles

• **Description**
  - Bombardier - Innovia APM 200 vehicles
  - Quantity - 18 cars
  - Weight – 32,000 pounds
  - Capacity – 53 passengers
  - Speed – Up to 38 mph
  - 2 car trains – Up to 4 cars

• **Vehicle Design Life**
  - 25 years
  - 2 million miles
44th Street Station

- 24/7 Security
- Early Bag Check
- Boarding Pass Kiosks
- Drop-Off & Pickup Curb
- Cell Phone Lot
- Employee Parking
- Bike Racks & Lockers
- Short-Term Parking Meters
- METRO Ticket Machines
- Pet Area
44th Street Station – Public Art Installation

Mario Madayag

Fausto Fernandez

Daniel Martin Diaz
East Economy Parking Station

- 10,000+ Economy Parking Spaces
- Bicycles Lanes to Maintenance Hangar Facilities
- Parking Area Circulator
- Passenger Drop-off Curb
- Early Bag Check
- Boarding Pass Kiosks
East Economy Station

Ann Coe – Terrazzo Floor
Terminal 3 Station
Train over Taxiway
Taxiway “R” Bridge

- 340 ft wide span
- Over 80 ft above Taxiway
- First transit bridge over active taxiway
Sustainable Design

PHX Sky Train – LEED Gold

- 37% Less Energy Use
- 40% Less Water Use
- Water Efficient Landscaping (75% less)
- 75% Diverted Construction Waste
- 23% Recycled Materials
- 25% Regional Materials
Infrastructure Today – 15,000+ Daily Riders

- 9,000 LF of elevated guideway
- 2,000 LF of at-grade guideway
- 4 Center Platform Stations

Features Crossed:
- Light Rail
- Canal
- Heavy Rail
- Roadways
- Parking Lots
- Taxiways (Over & Under)

Each crossing designed to meet specific constraints
PHX Sky Train – Stage 2

Future
PHX Sky Train – Stage 2
Proposed Alignment
Proposed Alignment & Stations
PHX Sky Train Alignment & Facilities
Facilities & Infrastructure - Alignment
Guideway Alignment

Future Terminal
Future Terminal Concept – South Linear
Future Terminal Concept – Piers
Guideway Alignment

Future Crossfield Taxiways U & V
Crossfield Taxiways U & V

- PHX Sky Train Corridor
  - 19 ft PHX Sky Train clearance

- Airport Service Road Corridor
  - 34 ft 2-lane Road

- Taxiways will be at existing grade
PHX Sky Train – Stage II and Proposed Taxiways
Sky Train Underpass
Ground Transportation Centers
Ground Transportation Centers

• Help Relieve Terminal Curbfront & Roadway Congestion
  – Provide Private Vehicle Pick-up & Drop-off Locations
  – Provide Commercial Vehicle Pick-up & Drop-off Locations
    • Hotel Shuttles, Off-Airport Parking, Charter Buses
  – Connect to Transit
    • METRO Light Rail, City Bus, Bicycle Facilities

• Expand Terminal Processing Functions to Stations
  – Early Bag Check & Ticket Kiosks
    • Helps Relieve Congestion at Curbside Check-in & Interior Ticketing/Check-in
East Ground Transportation Center – 44th St

- METRO Light Rail
- Public & Commercial Pick-up/Drop-off Curb
- City Bus
- Cell Phone lot
- Bikes
- Employee parking
- Major events (Superbowl charters)
- Sky Garden
- Future Passenger Rail Station
44th Street PHX Sky Train Station (East GTC)
West GTC – Purpose

• Provide West Economy Public Parking

• PHX Sky Train station for access to Terminal core and RCC

• Provide a multi-modal West Ground Transportation Center to supplement Terminal curb fronts

• Commercial/Mixed Use
  • hotel, office, retail
West GTC Station – Initial Build Concept
West GTC Station – Full Buildout Concept

2,300 Space Parking Garage + Mixed Use Commercial

5,500 Space Parking Garage

Ops & Facilities Building & Yard
Rental Car Center
Stations – Rental Car Center
Stations – Rental Car Center
Questions?