### San Antonio International Airport SAT Industry Day

April 20, 2023





#### SAT Industry Day Agenda

### Welcome Remarks Terminal Development Program (TDP) Overview Additional Airport Opportunities





#### Mayor Ron Nirenberg City of San Antonio





#### Erik Walsh City Manager City of San Antonio





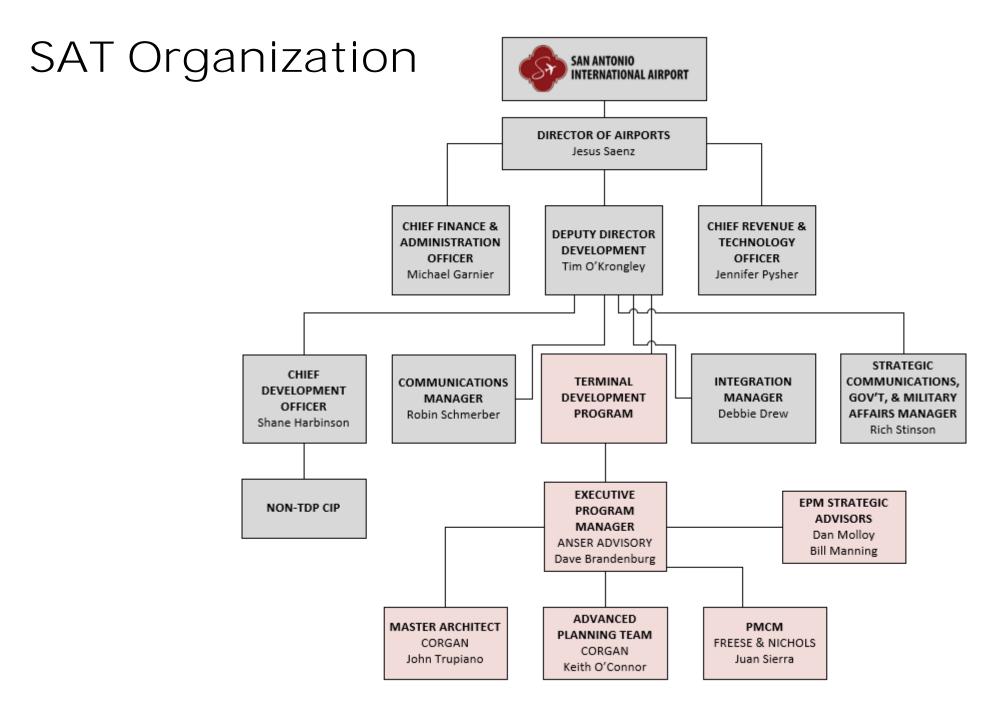
#### Jesus Saenz Director of Airports, San Antonio Airport System City of San Antonio



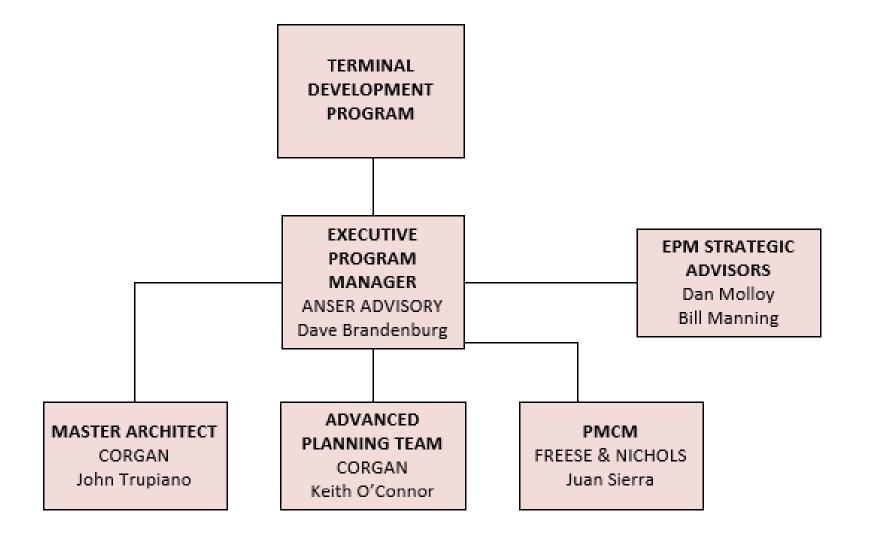


#### Tim O'Krongley Deputy Director, San Antonio Airport System City of San Antonio





#### **TDP** Organization





#### Dave Brandenburg Executive Program Manager (EPM) Anser Advisory



#### PROGRAM MANAGEMENT MODEL – Dave Brandenburg



#### Program Overview John Trupiano & Keith O'Connor Corgan Master Architect





#### **TDP Component Projects**

- NEW TERMINAL
- COMMERCIAL APRON
- <mark>3 —</mark> FUELING
- 4 GROUND TRANSPORTATION CENTER / PARKING / PEDESTRIAN BRIDGE
- 5 RON PARKING
- 6 EMPLOYEE PARKING ALTERNATIVE
- DEMO HANGAR 4, PUBLIC SAFETY & BADGING OFFICE
- 8 A TO B SECURE CONNECTOR
- 9 AIRPORT ACCESS / EGRESS ROADWAYS
- 10 TERMINAL CURBSIDE
- 11 CENTRAL UTILITY PLANT (CUP) UPGRADES
- 12 UTILITY RELOCATION



#### New Terminal

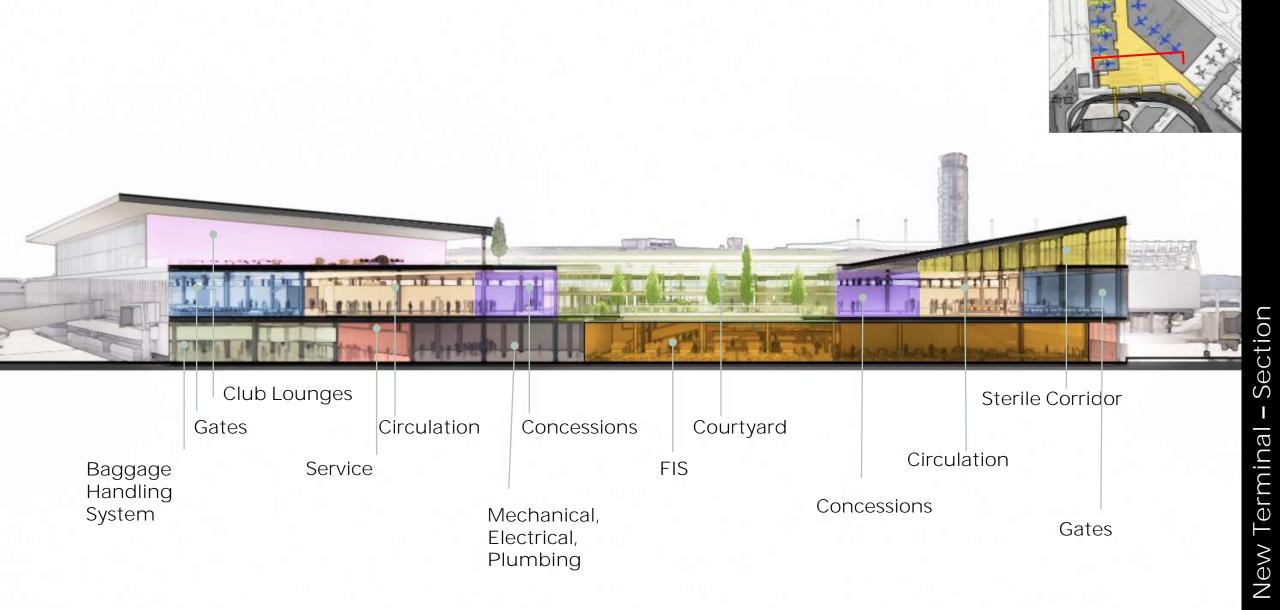


- New Terminal Terminal Development Plan

#### New Terminal



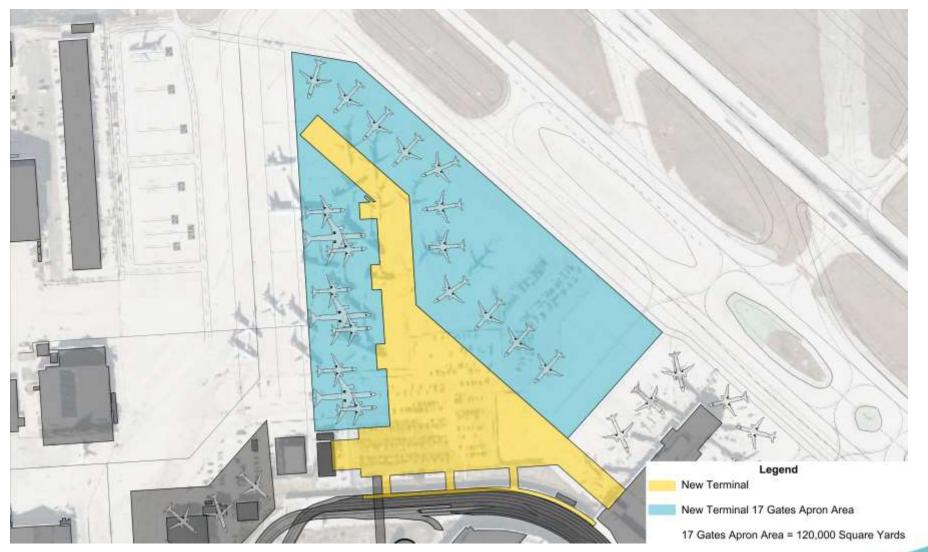
- 17 Gates
- 850,000 square feet
- 3 Levels
- Incorporates modular construction approach
- Landside Construction
- Landscaping and materials reinforce Sense of Place







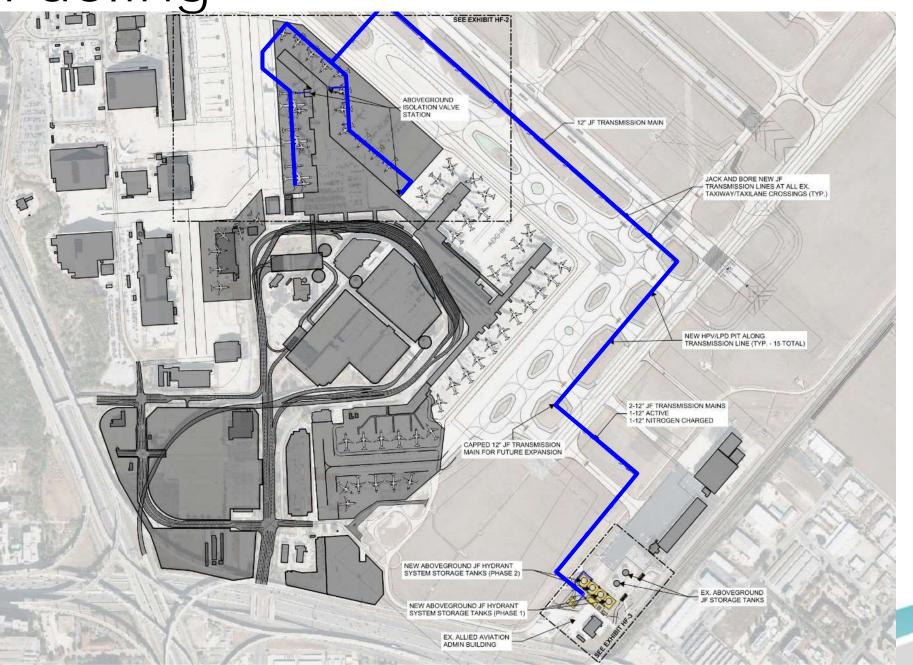
#### **Commercial Apron**



- 17 Gates
- 3 Widebody MARS stands
- 120,000 sq yds of pavement

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# Fueling

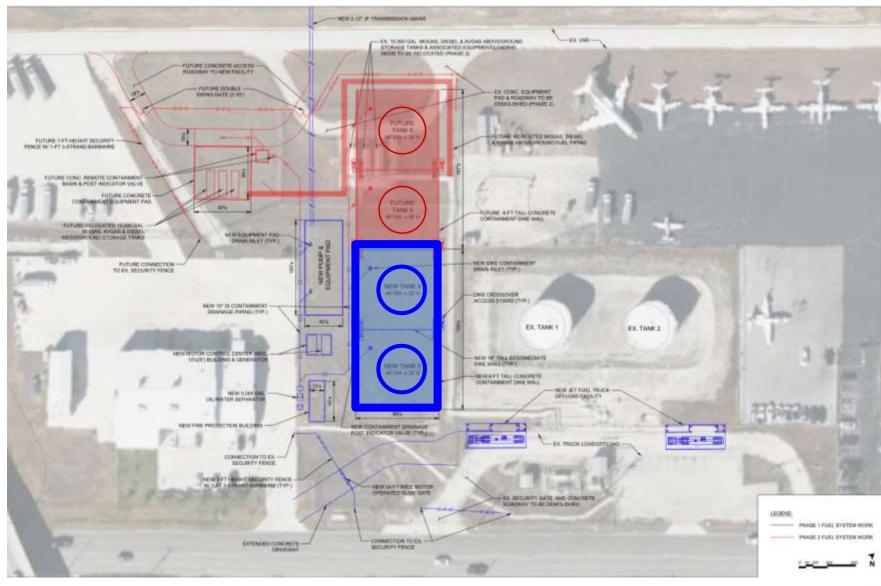


• Fuel Farm Improvements

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• Hydrant Fueling

### Fueling

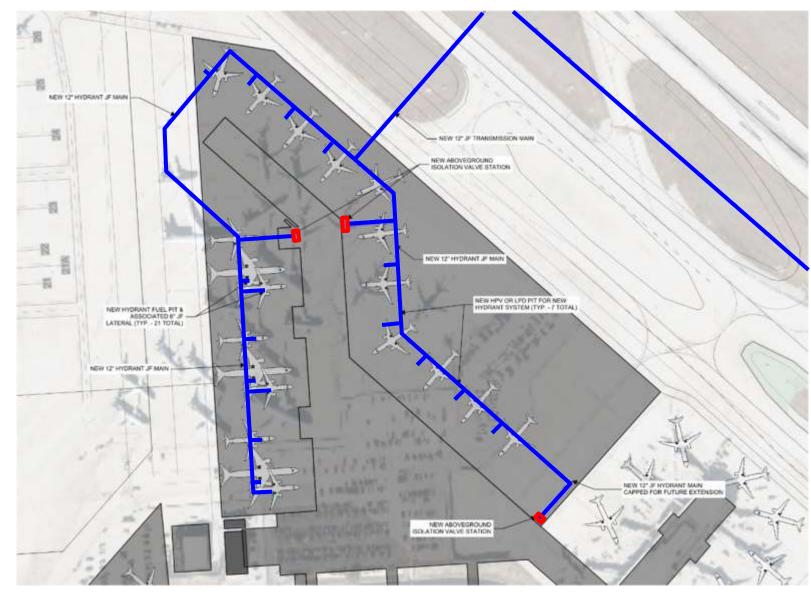


- 2 new 433,000-gallon tanks
- Space for 2 additional tanks
- Fuel hydrant pump pad and storage tank

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 Relocated truck delivery location

#### Fueling

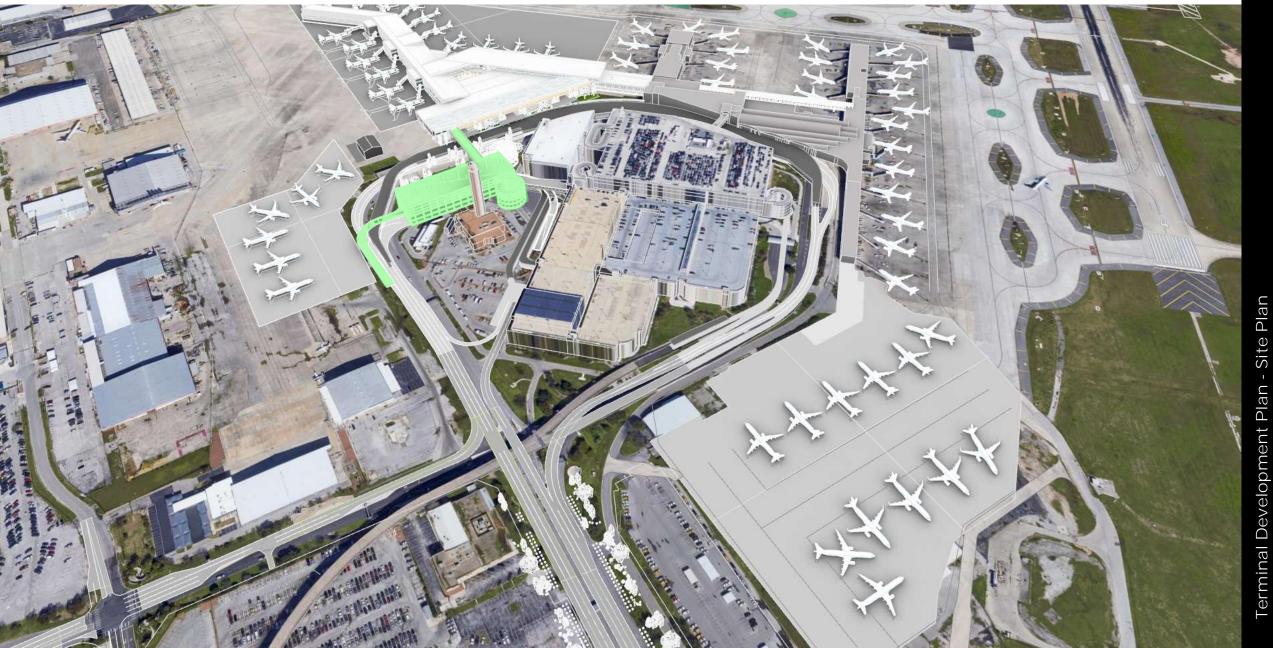


- New 12" Hydrant Main
- New 12" Transmission Main
- New Hydrant Fuel Pit & Associated 6" Lateral
- New above ground Isolation Valve Station (red)

#### NEW TERMINAL HYDRANT FUEL SYSTEM PLAN (HF-2)

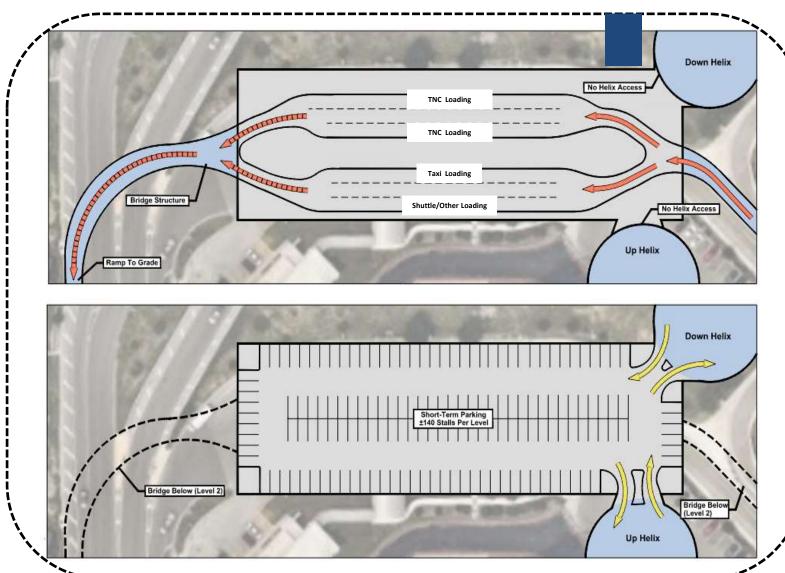


#### Ground Transportation Center (GTC)



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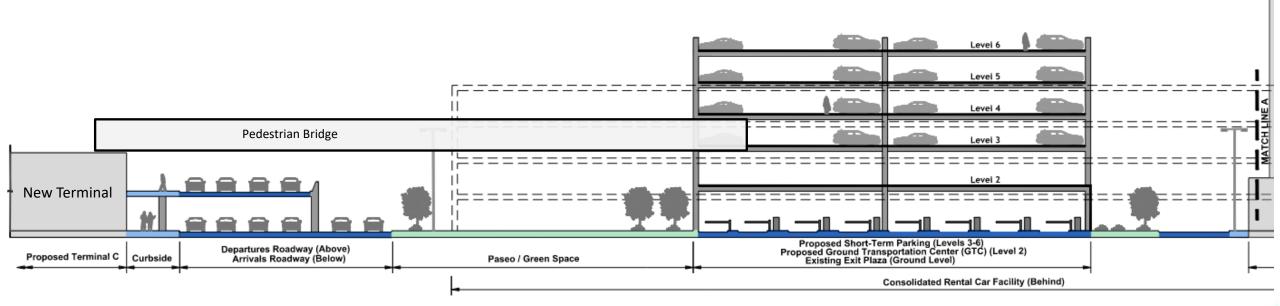
#### Ground Transportation Center (GTC)



- 6 level public parking garage
- 560 passenger parking spaces
- Entry plaza with commercial vehicle bypass
- 2 single thread helices for vehicular vertical circulation
- Pedestrian bridge between GTC and the New Terminal



#### Ground Transportation Center (GTC)



Parking Garage Cross Section

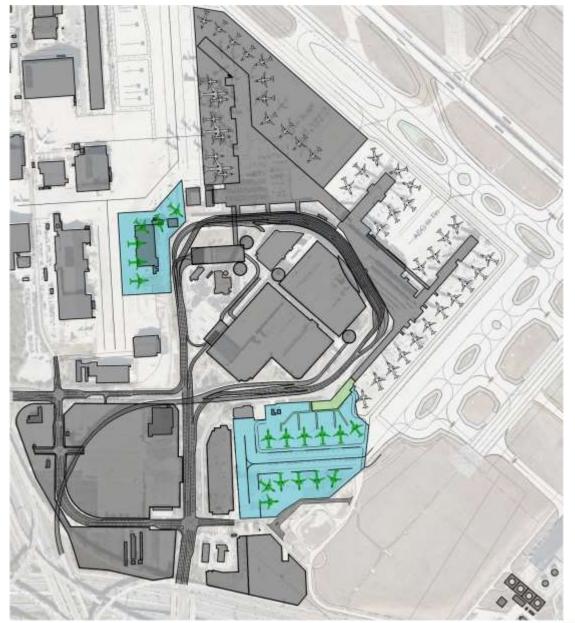


# Remain Overnight Parking (RON)



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#### Remain Overnight Parking (RON)



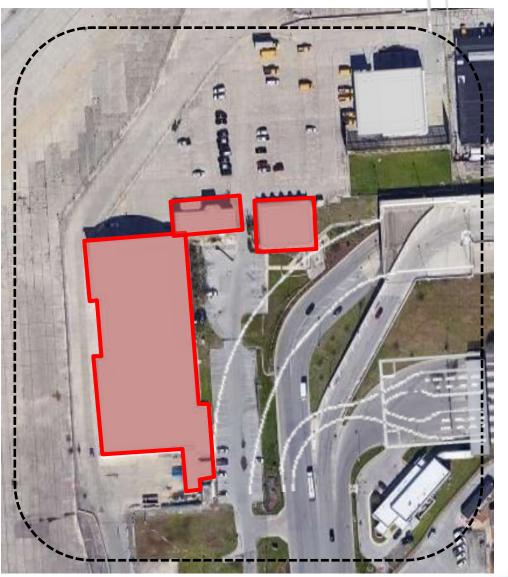
- 6 North RON Positions
- 7 South RON Positions

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# **Employee Parking Relocation**

- Current employee parking will be relocated (red)
- 1,200 vehicle parking stalls are recommended
- New areas to be identified to provide replacement parking elsewhere

# Demo Hangar 4, Public Safety Building & Badging Office



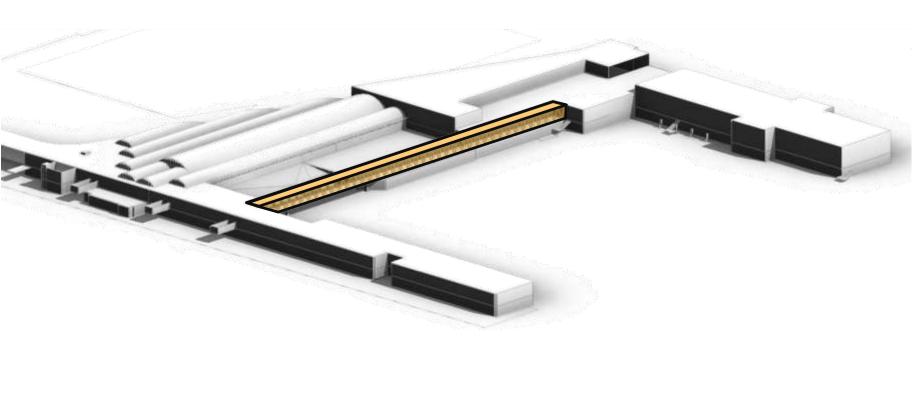
- 45,000 SF of demolition
- Demo slab & foundations to 5' below surface
- Restore with apron pavement section for RONs
- Environmental remediation TBD



#### Terminal A to B Secure Connector



#### Terminal A to B Secure Connector



- Airside connector from Concourse A to Concourse B
- Connecting to existing circulation at level 2
- Long-span structure over existing BHS
- No airfield impacts

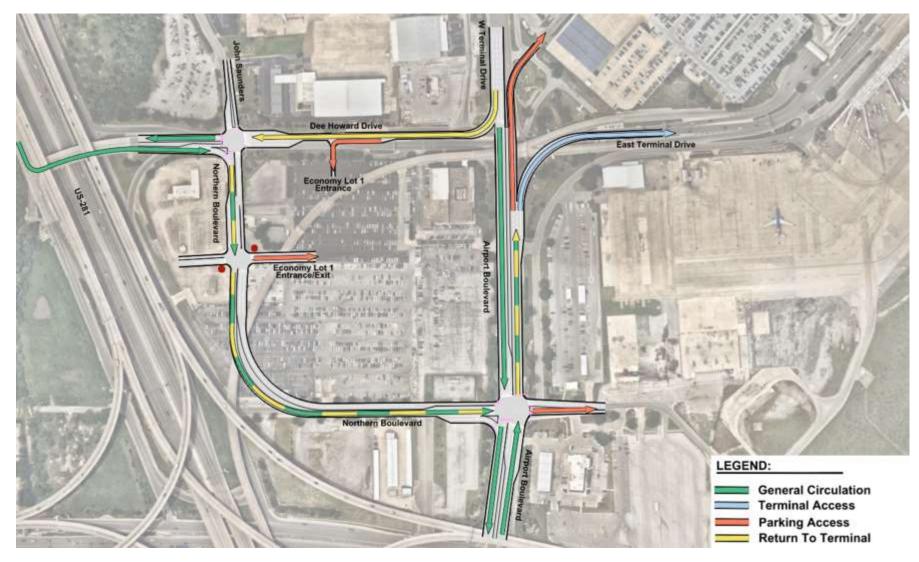


# Airport Access Roadway / Egress Roadways



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#### Airport Access / Egress Roadways



- Reorganizes traffic to increase vehicle efficiency
- Improves key intersections
- Includes new roadway segments and reuse of existing

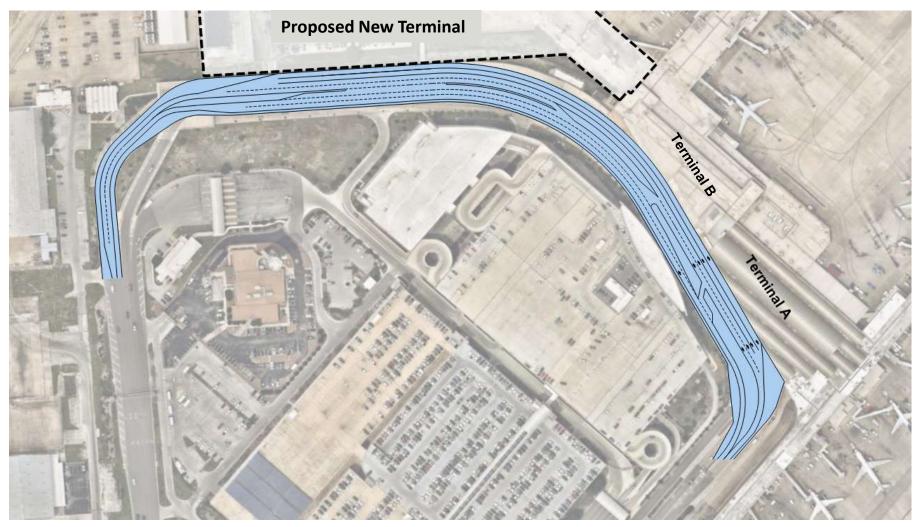


#### Terminal Curbside



Plan **Terminal Development** 

#### Terminal Curbside



- Reconfigure existing Terminal A approach to improve traffic flow
- Expand existing elevated roadway by 2 lanes
- Add weave lanes to facilitate easier curbside ingress and egress

# Central Utility Plant (CUP) Upgrades



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## Central Utility Plant (CUP) Upgrades



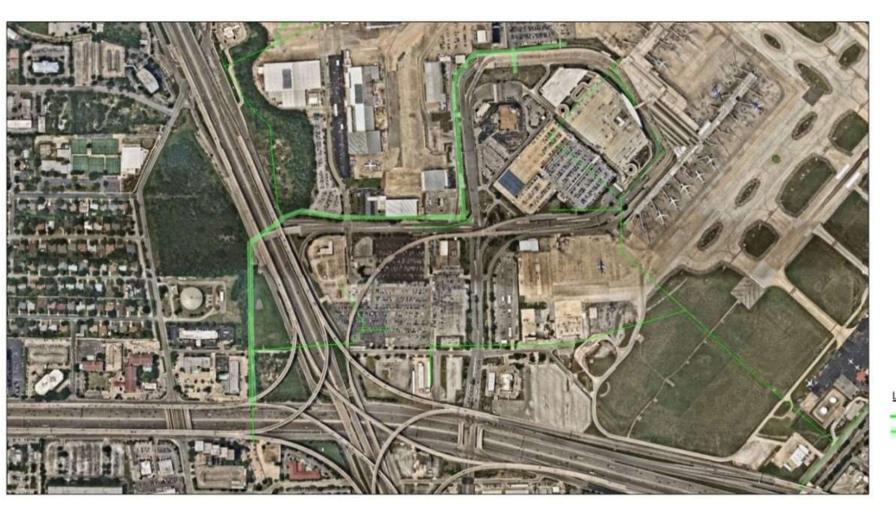
- Expand existing CUP
- (2) new cooling towers
- Pumps and associated piping
- (2) 1,600 TON chillers
- 4+1 chiller capacity for all 3 terminals
- 2-3 additional transformers
- Additional CPSE services

## Utility Relocation



Upgrade and replacement of existing water main

## Utility Relocation



 Upgrade and replacement of existing sewer main



LEGEND

EXISTING SEWER MAIN TO REMAIN EXISTING SEWER MAIN TO BE UPSIZED TO A 21-INCH

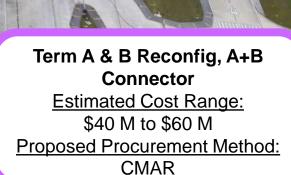


# PROGRAM SUMMARY COST AND SCHEDULE OVERVIEW



Fuel Storage & New Terminal Hydrant System Estimated Cost Range: \$120 M to \$140 M Proposed Procurement Method: CMAR New 17 Gate Terminal, Apron, GTC, CUP and Utility Infrastructure Estimated Cost Range: \$1.2B to \$1.6B

Proposed Procurement Method: CMAR



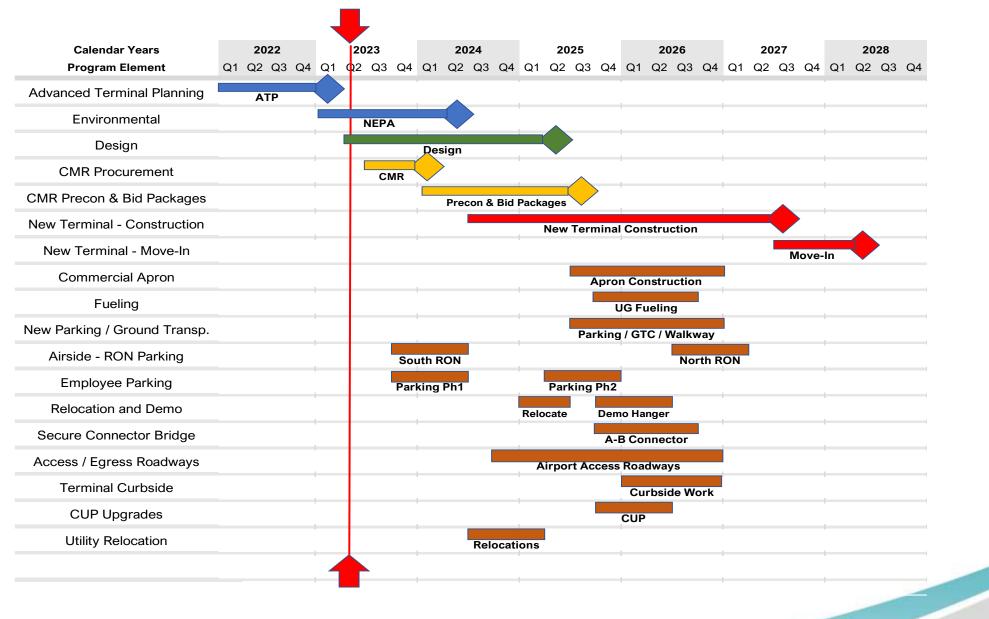
Estimated Cost Range: \$40 M to \$60 M Proposed Procurement Method: Design Build

**CRDC & Public Safety** 

Early Works <u>Estimated Cost Range:</u> \$50 M to \$70 M <u>Proposed Procurement Method:</u> Design Build & CMAR

Roadways & Curbside <u>Estimated Cost Range:</u> \$40 M to \$60 M <u>Proposed Procurement Method:</u> Design, Bid, Build

#### Summary Schedule



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## Additional Airport Opportunities





## Shane Harbinson & Maria Godina Planning & Development Office San Antonio Airport System



## Sustainability



### SUSTAINABLE AIRPORT MANUAL

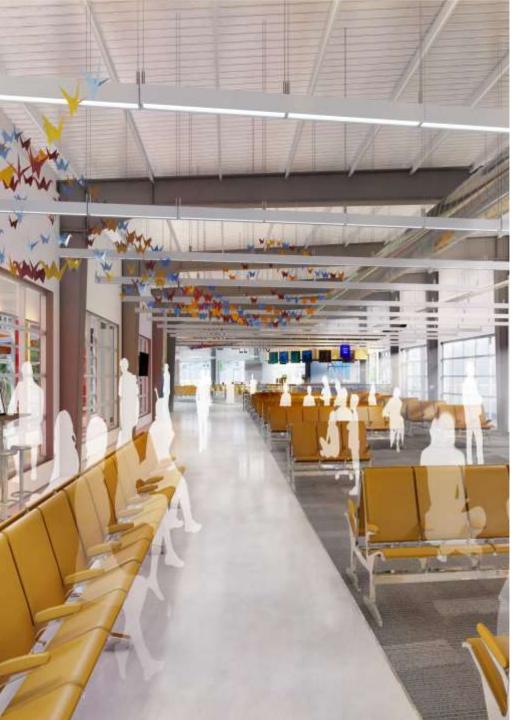
OL. 1 BUILDING DESIGN AND CONSTRUCTION

#### SEPTEMBER 2021

https://flysanantonio.com/wp-content/uploads/2022/02/SUSTAINABLE-AIRPORT-MANUAL.pdf

- In 2021 San Antonio Airport System Created Sustainable Airport Manual
- Provides guidance needed to implement sustainable design criteria and best practices of new construction and major renovations
- Best sustainability practices while operating within the SAT campus
- Airport is conducting early environmental baselines of enabling construction projects to facilitate the early identification of unexpected hazards and prevent program delays of the TDP





### Ground Load Facility Design Build



#### Work Packages:

- Civil
- Metal Building
- FFE
- Foundation
- Plumbing
- Electrical

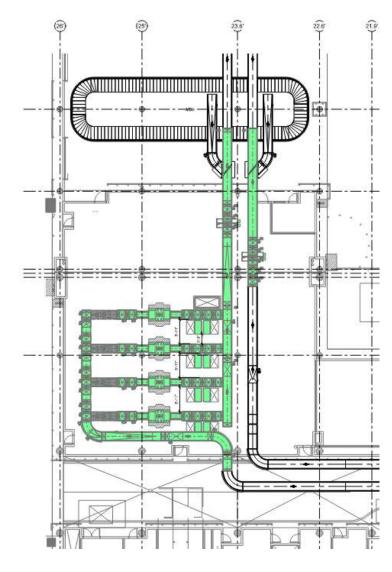


DBE Methodology

In the DB Procurement Phase – June 2023 Council Session

Subcontractors: Be on the lookout this Summer & Fall for DB Work Packages

### Baggage Handling Improvements (Design-Bid-Build)



#### Scope / Sequence of Work:

- Relocate 5 UA Ticket Counters; Install Baggage Takeaway Belt
- Install 2 Temporary CT-80 Lobby Screening Devices & Associated Infrastructure
- Construct New Storage Area(s) within Terminal Facility Complex
- Relocate Approx. 4,300 SF Maintenance/O&M Storage from Lower-Level Terminal B
- Construct Temporary Mini In-Line CBIS; Install 4 Temporary CT-80 Screening Devices in Lower-Level Terminal B
- Upgrade Terminal A CBIS OSR and Alarm Lines

Engineer's Estimate: \$10.2M Funding Source: Grant Eligible DBE Methodology

Estimated Bid Advertisement: Summer 2023 Construction NTP: Fall 2023 Construction Completion: Spring 2025





Airfield Safety Enhancement and Improvement Program Consultant: Kimley-Horn





### Eboni Wimbush President and CEO Airport Minority Advisory Council



#### #AMAC2023 JUNE 10-14, 2023

JW Marriott San Antonio Hill Country Resort & Spa

amac-org.com/annualconference





### WHY ATTEND #AMAC2023

HOSTED BY THE SAN ANTONIO AIRPORT SYSTEM

- X Airport Directors 20/20 Forum
- The provide the second second
- X AMAC Catalyst Awards
- 🛪 Exhibit Expo

38TH ANNUAL AMAC

AIRPORT

BUSINESS

DIVERSITY

CONFERENCE

- X AMAC Foundation Celebrating Women in Aviation Breakfast
- 🛪 Business Matchmaking
- X AMAC Foundation Bill Walker Memorial Golf Tournament
- X AMAC Foundation Scholarship Awards
- Workshops & Industry Updates
- X Networking Receptions
- AMAC Foundation Silent Auction









### Barbara Patton Business Opportunity & Diversity Development Manager San Antonio Airport System



## San Antonio International Airport SAT Industry Day Thank you for coming!

