

Infrastructure Industry Day

February 28, 2020



Infrastructure Industry Day Agenda

- Opening & Welcoming Remarks
- Upcoming Business Opportunities:
 1. Infrastructure Extension of Staff Services
 2. Domestic Redevelopment Program
 3. Exit Lane Technology
 4. Restroom Renovations
- Networking Break
- Upcoming Business Opportunities (*continued*):
 1. HAS Interior-Scaping
 2. IAH Flyover Bridge
 3. Relocation of TSA/HPD Bunkers & K9
 4. HOU ARFF 81 Replacement
 5. FAR 139 Airfield Pavements
- Question And Answer Opportunity
- Industry Day Concludes



Infrastructure Extension of Staff Services

Devon Tiner
HAS City Engineer



Infrastructure Extension of Staff Services

Devon Tiner, HAS City Engineer

- Purpose
 - Extension Of Staff Services Support
- Request For Qualifications (RFQ)
 - Infrastructure Division Extension of Staff (M/WBE Goal: 35%)
 - Building Standards Group (BSG) Extension of Staff (M/WBE Goal: 7%)
- Typical Extension Of Staff Roles (For Example Purposes Only)
 1. Infrastructure: Project/Construction Management, Scheduling, Cost Estimating, Planning
Environmental Field Support, Administrative
 2. BSG: Building Official, Permit Coordinator, Plans Examiners, TIP Coordinator



Infrastructure Extension of Staff Services, *continued*

Devon Tiner, HAS City Engineer

- Anticipated Contract Terms:
 - Five Years, With One 3 Year Renewal Option
- Planned Solicitation Date:
 - March 2020
- Targeted Award Date:
 - July 2020



Domestic Redevelopment Program

Robert Barker
Chief Development Officer

Domestic Redevelopment Program Overview



- Terminal A Projects
 - Baggage Handling System Optimization
 - Design Complete
 - Construction Contract Awarded
 - Early And Enabling Works
 - Modernization
 - Expansion



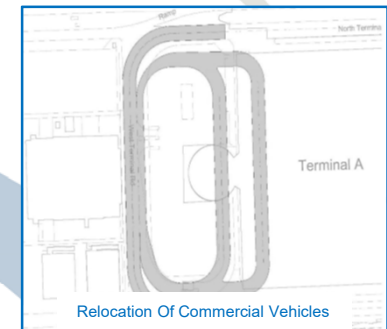
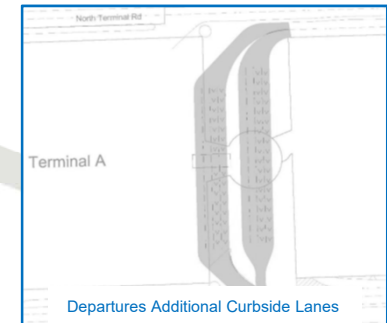
Early And Enabling Works

Scope Description



■ Improvements To Exterior Terminal Functions

- Curbside Capacity Improvements
- South Terminal Roadway Improvements
- Installation Of New Triturator
- Remain Overnight (RON) Parking
 - Replaces Displaced Parking
 - 4 Positions
- Project Status
 - Small On-Call Design (In Progress)
 - Anticipate Soliciting Design-Build Services Q3 2020





Terminal A Modernization Project Scope Description

- Scope Elements
 - Core Building Systems Service Extension
 - Inbound Baggage Handling Service Extension
 - Gate Support Equipment Replacement
 - Additional, And Renovation Of Existing, Restrooms
 - Refreshed Finishes, Furniture, Fixtures & Equipment
- Project Status
 - 30% Design Complete
 - Anticipate Soliciting Architect Engineer Services March 2020
 - Anticipate Soliciting Construction Manager At Risk (CMAR) Services March 2020





Terminal A Expansion Project

Scope Description

- Purpose
 - Increase Gate Capacity To Meet Domestic Airline Requirements
- Project Status
 - Design In Progress
 - Large On-Call Design Services
 - Anticipate Soliciting Construction Manager At Risk (CMAR) Services March 2020
 - Single CMAR Solicitation For Modernization And Expansion Projects



Terminal A Expansion Project

Alternatives Considered

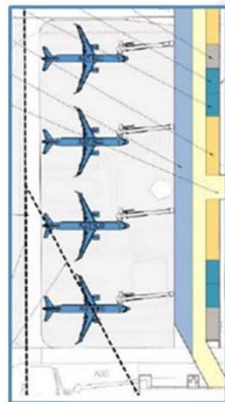


New Northwest Pier – 8 Gates



Estimated Cost \$ 300 Million

New West Pier – 4 Gates



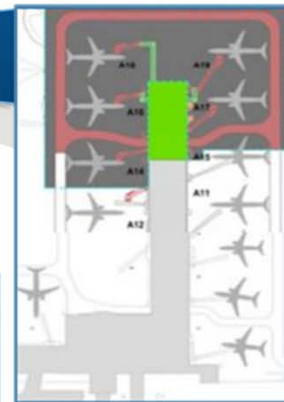
Estimated Cost \$ 95 Million

South Concourse – 4 Gates



Estimated Cost \$ 86 Million

North Concourse – 4 Gates



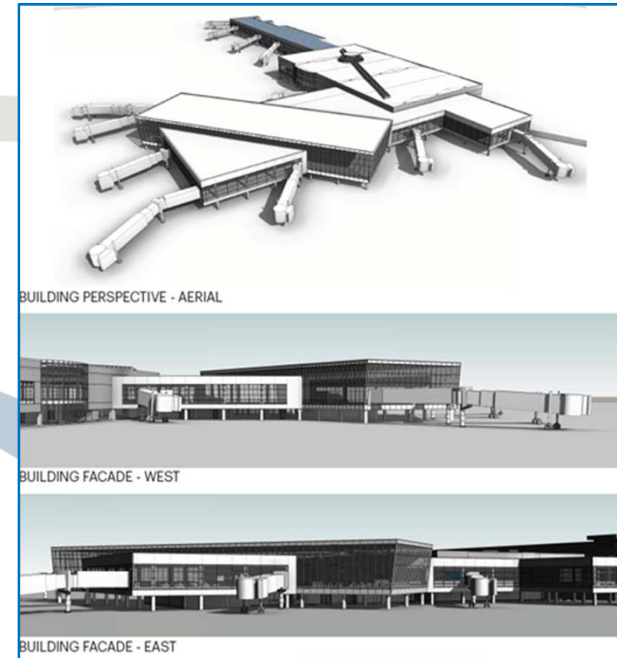
Estimated Cost \$ 110 Million



Terminal A Expansion Project Concept Overview



South Concourse Expansion	
Total Number of Gates:	8
Incremental New gates:	4
Hold Rooms:	33,500 sf
Average Space/Gate:	4200 sf
Concessions Space:	8300 sf
Restroom & Core:	4800 sf
Circulation:	13,900 sf
Vertical Circulation:	700 sf
Total Expansion Area:	61,200 sf





Domestic Redevelopment Program

Milestones - 1

- Program Scoping And Review

- Domestic Airline Reviews/Briefs
- Economic Development Committee
- Airport Airline Affairs Committee
- Industry Day Outreach Event

2019 - Ongoing

2019 - Ongoing

2020 - Ongoing

February 28, 2020



Domestic Redevelopment Program Milestones - 2

- Design And Construction Support
 - On-Call Design Services
 - Expansion Project To 100% Design
 - Early And Enabling Works To 30% Design
 - Solicit Modernization Project Design Services: On Going
 - Solicit Early And Enabling Works Design-Build Planned March 2020
 - Solicit CMAR Services
 - Single Contract Solicitation For Modernization And Expansion Projects Planned September 2020
 - March 2020



Exit Lane Technology Project

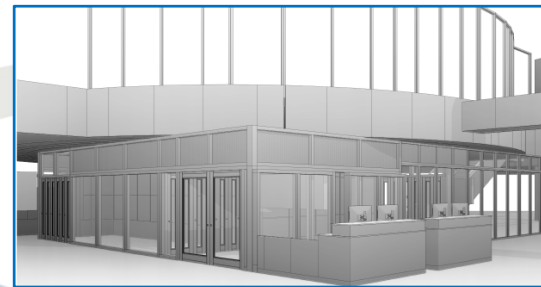
Justina Mann, Director, Infrastructure Controls



Exit Lane Technology Project, PN 735A & PN 735B

Justina Mann, Director, Infrastructure Controls

- Enhance Intrusion Detection Capabilities And Overall Security Of TSA Passenger Screening Checkpoint Exit Lanes Located At IAH Terminals A And C, And At HOU
- These Units Will Provide Detection, Alarm Reporting, And Documentation To Resolve Unauthorized Entry Into The Sterile Areas



Exit Lane Technology Project

Justina Mann, Director, Infrastructure Controls



Existing Exit Lane At IAH Terminal B

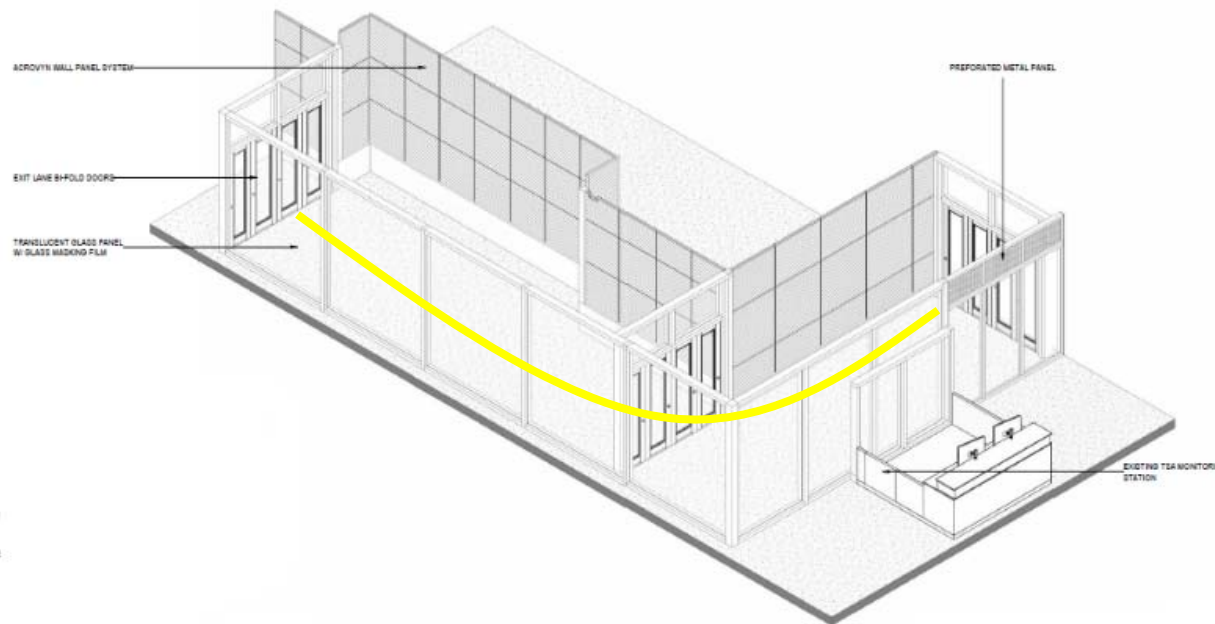


Exit Lane Technology Project

Justina Mann, Director, Infrastructure Controls



IAH Terminal C

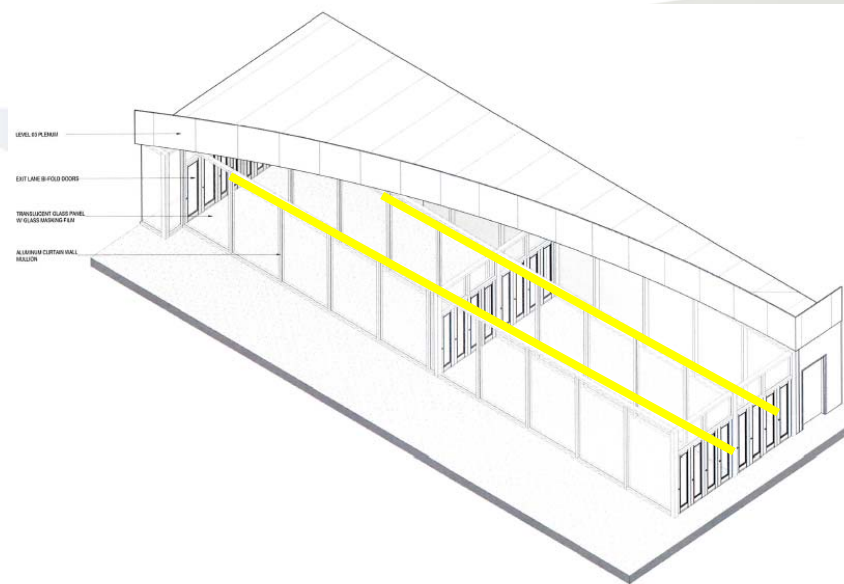


Exit Lane Technology Project

Justina Mann, Director, Infrastructure Controls



HOU Terminal Checkpoint





Exit Lane Technology Project

Justina Mann, Director, Infrastructure Controls

Project Objectives: Install Exit Lane Technology System That Will Provide Containment, Monitoring, Alarming (audible & visual), Good Passenger Flow

Milestones:

- | | |
|------------------------------|-----------------|
| ■ Design | Complete (100%) |
| ■ Construction Procurement | March 2020 |
| ■ Construction Award Planned | October 2020 |
| ■ Project Completion | June 2021 |



HOU Restroom Renovations

Justina Mann, Director, Infrastructure Controls



HOU Restroom Renovations Project

Justina Mann, Director, Infrastructure Controls

Project Objectives:

- Renovate Two (Sets) Of The Existing Restrooms With New Technologies And Modern Sustainable Materials For A Better Passenger Experience And For Ease Of Cleaning And Maintenance

Milestones:

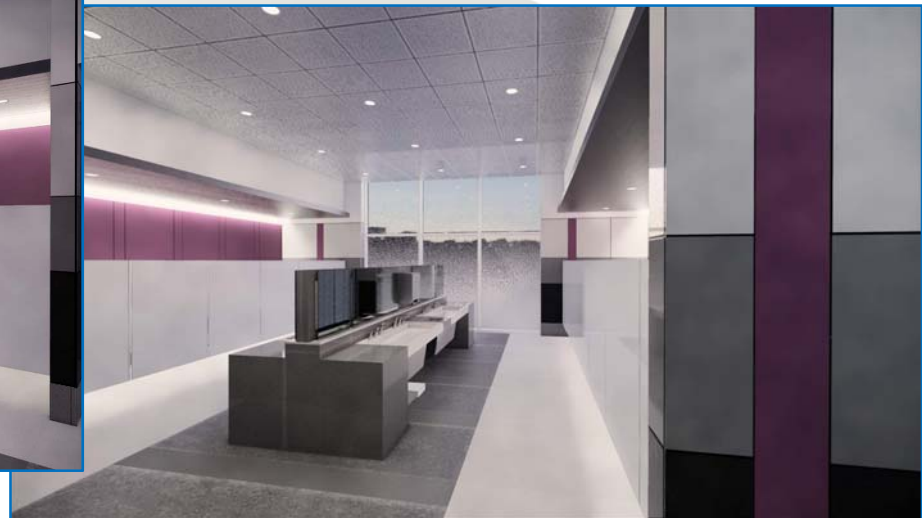
- | | |
|----------------|---------------------|
| ▪ Design | Complete (100%) |
| ▪ Procurement | Second Quarter 2020 |
| ▪ Construction | Fourth Quarter 2020 |
| ▪ Completion | Fourth Quarter 2021 |

HOU Restroom Renovations Project

Justina Mann, Director, Infrastructure Controls



Women's Restroom Elevations



HOU Restroom Renovations Project

Justina Mann, Director, Infrastructure Controls



Men's Restroom Elevations



HOU Restroom Renovations Project

Justina Mann, Director, Infrastructure Controls



Concourse Elevations





NETWORKING BREAK



HAS Interior - Scaping

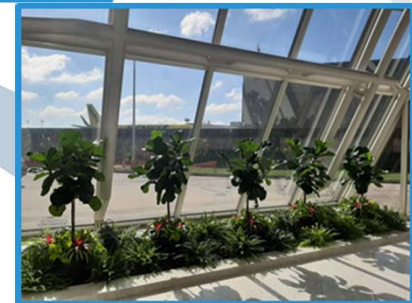
Scott Hill, Director, Maintenance



HAS Interior-Scaping

Scott Hill, Director, Maintenance

- Invitation-To-Bid (ITB)
 - 3 Year Term
 - Advertise June/July 2020
- Scope Of Work
 - Locations
 - IAH (Terminals A & D)
 - HOU (Terminal Main & International)
 - HAS Administrative Buildings (Public Spaces)
 - Interior Foliage - Turnkey:
 - Operations And Maintenance (O&M)
 - Including, But Not Limited To, Dusting, Cleaning, Polishing, Removal, Rotation, Replacement And Watering
 - New Installations Via Other Service Requests





Will Clayton Pkwy/JFK Blvd Flyover Bridge Safety Improvements

Justina Mann, Director, Infrastructure Controls



WCP/JFK Flyover Bridge Safety Improvements

Justina Mann, Director, Infrastructure Controls



- Project Objectives and Improvements:
 - Railing Upgrades
 - Signage Improvements
 - Installation of End Treatments
 - Removal of Sidewalk Pavement
 - Reconstruction of Roadway Surface
 - Additional Traffic Control Devices



WCP/JFK Flyover Bridge Safety Improvements

Justina Mann, Director, Infrastructure Controls



Milestones:

- Design:
 - Second Quarter 2020
- Procurement:
 - Fourth Quarter 2020
- Construction:
 - Second Quarter 2021



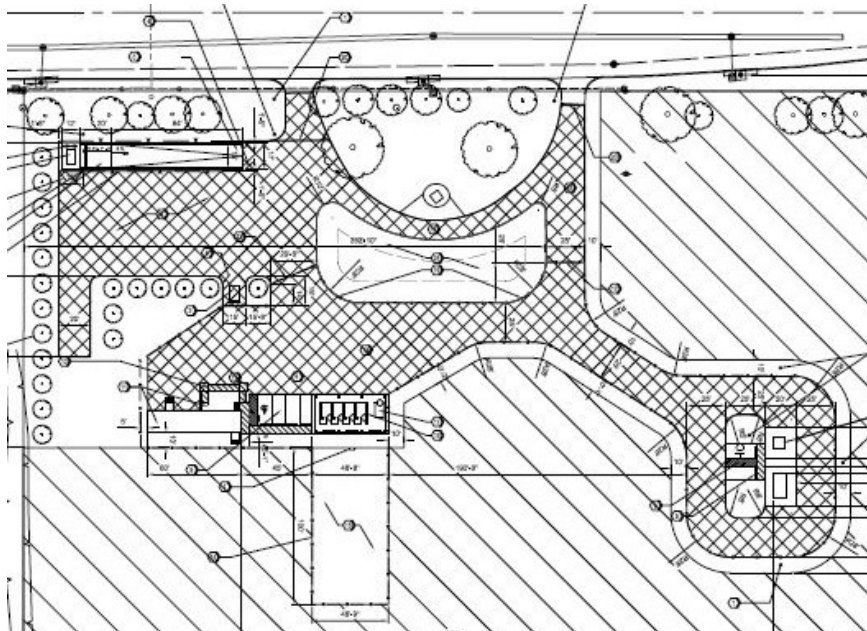
HOU Relocate TSA/HPD Bunkers & K-9

Justina Mann, Director, Infrastructure Controls



HOU Relocate TSA/HPD Bunkers & K-9

Justina Mann, Director, Infrastructure Controls

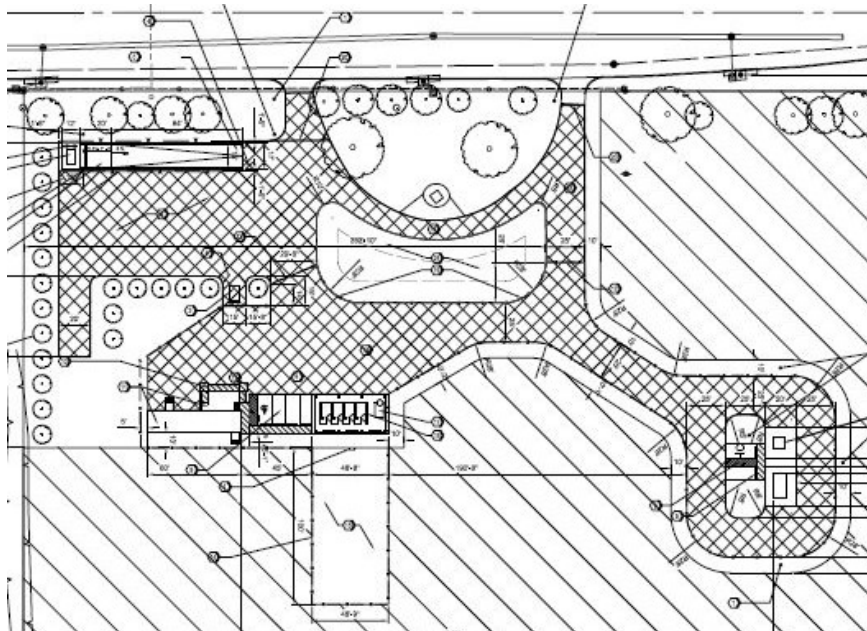


- **Objective:**
 - Provide New Secure HPD/TSA Office & K-9 Training Facility
 - Provide New ATF Storage Magazine Facilities
 - Provide New Utilizing Ramp And Container Dump Site



HOU Relocate TSA/HPD Bunkers & K-9

Justina Mann, Director, Infrastructure Controls



Milestones:

- Design:
 - Complete (30%)
- Procurement (Design Build):
 - Second Quarter 2020
- Construction:
 - Fourth Quarter 2020



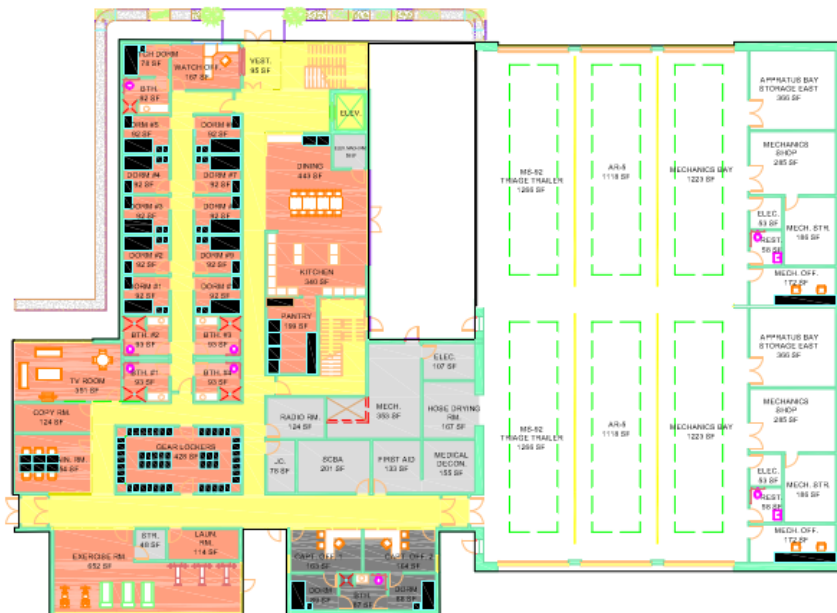
HOU ARFF 81 Replacement

Justina Mann, Director, Infrastructure Controls



HOU ARFF 81 Replacement

Justina Mann, Director, Infrastructure Controls



Milestones:

- Complete Design:
 - Design Completion Through On-Call Design Services
 - Second Quarter 2020
- Procurement:
 - Issued To Bid (ITB) Construction Contract
 - Third Quarter 2020
- Construction:
 - First Quarter 2021



FAR 139 Airfield Pavements

Cynthia Straughan, PE, PMP, CM
Assistant Director FAR 139 Airfield Pavements



Taxilanes RA & RB

Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Competitive Sealed Proposal:
 - Advertise November 2020
 - Design In Progress (35%)
 - Phase I RA Reconstruction (JFK to SF) & RB Panel Replacement
 - Reviewing “Aggressive” Phasing Plan
 - SA & SB Non-Standard Alignment – Planning Underway

Taxilanes RA & RB

Cynthia Straughan, Assistant Director, FAR 139 Pavements



- Scope Considerations:
 - Perform Work In Broad Lengths
 - Resources To Work in Parallel
 - High Risk Safety Area
 - Functioning Terminal(s)



HOU Non-Standard Taxiways

Cynthia Straughan, Assistant Director, FAR 139 Pavements



- Construction (Package 1):
 - Demolition of Runway 17/35
 - Invitation to Bid
- Scope:
 - Pavement Removal and Disposal
 - Fill
 - Revised Signage, Lighting, and Markings.
 - Alternate Bid Item



HOU Non-Standard Taxiways

Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Phasing/Timeline:
 - SRA Completed, 7460s Submitted
 - Environmental Assessment: In Final FAA Review
 - Advertise ITB ~May 2020
 - Construction NTP ~November 2020
 - HAS: Signage/Marking Removals, Electrical, Other



HOU Non-Standard Taxiways

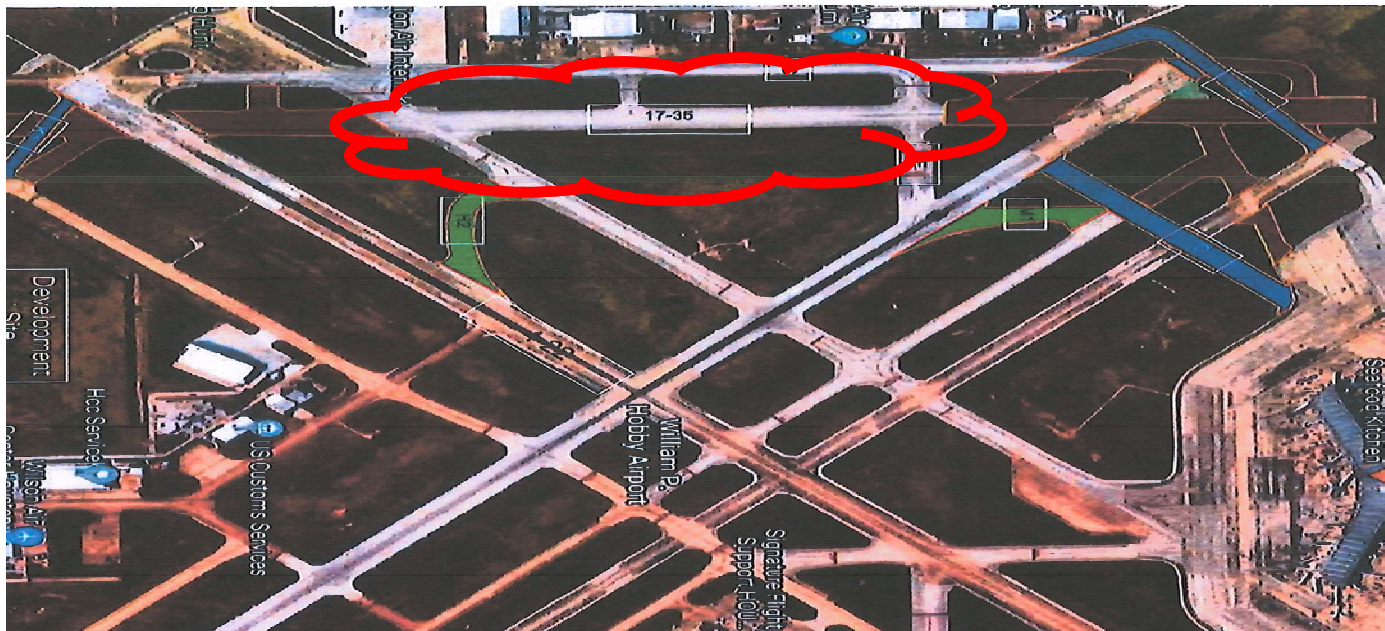
Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Construction (Package 2):
 - Reconstruction/Re-Alignment of Taxiways D, E, M1, H2 And Associated Pavements
 - Advertise D/B Procurement January 2021
 - NTP August 2022 (Following 9 Months From Start of Demolition)
- Risk Management:
 - Fuel Tank Relocations, NAVAIDS Relocation, ALP Modifications
 - North Loop Addition, FAA Reimbursable Agreement



HOU Non-Standard Taxiways

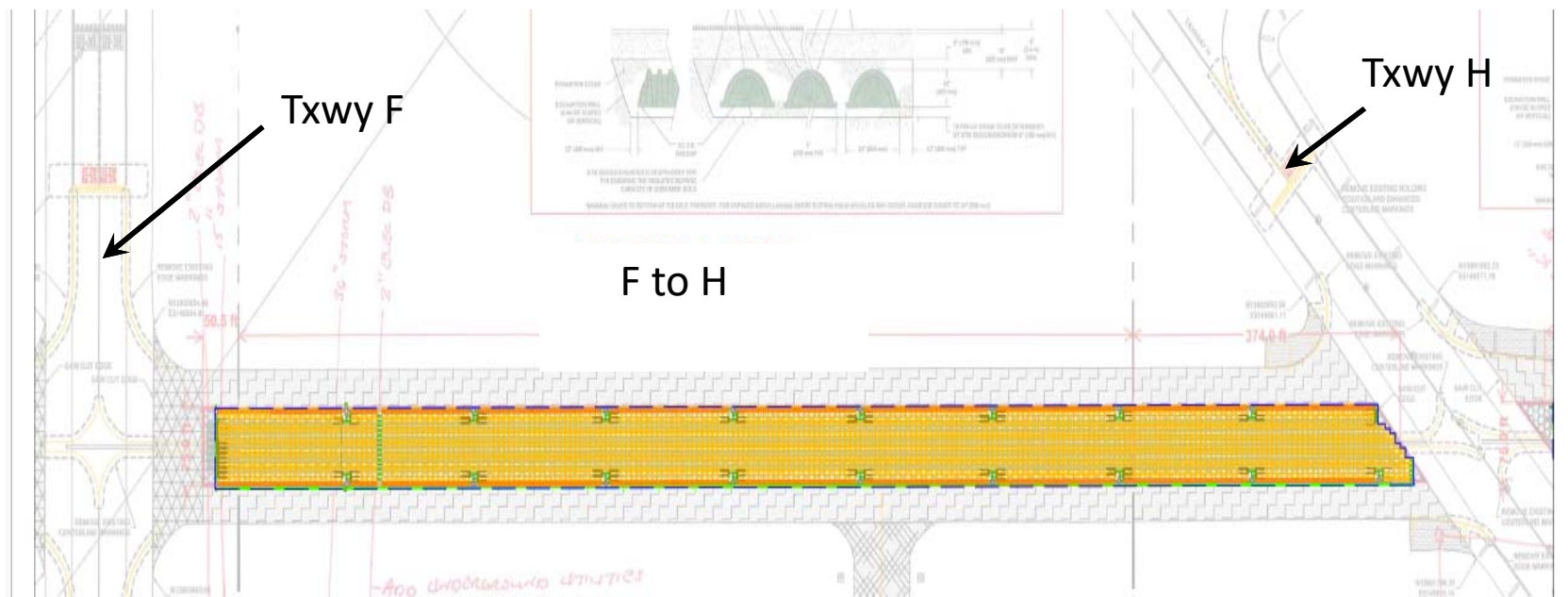
Cynthia Straughan, Assistant Director, FAR 139 Pavements





HOU Non-Standard Taxiways

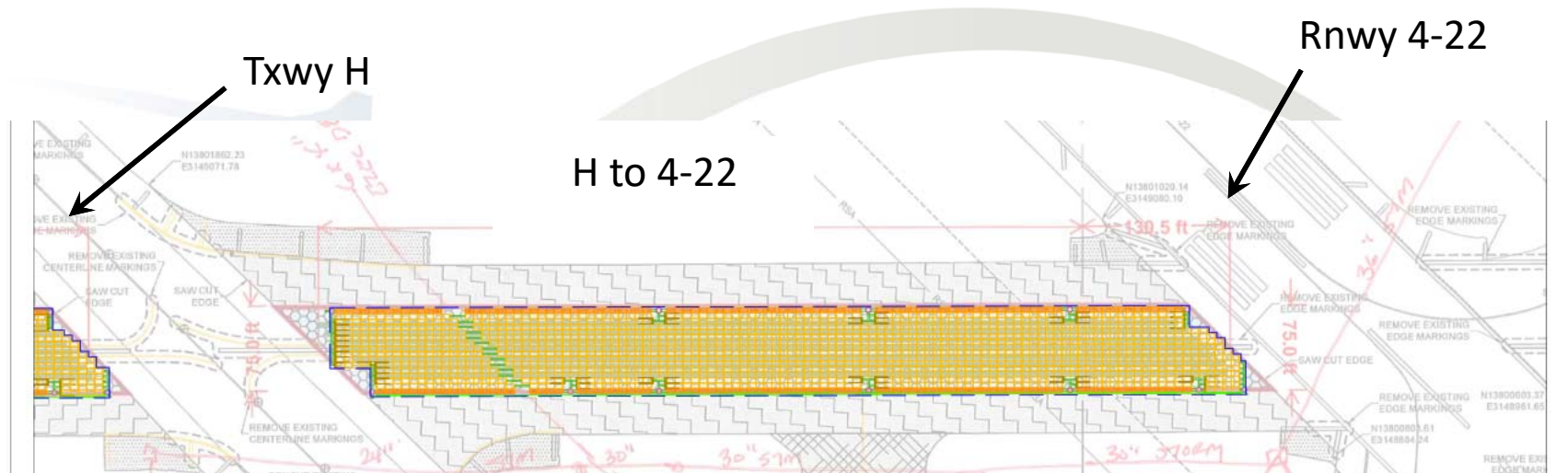
Cynthia Straughan, Assistant Director, FAR 139 Pavements





HOU Non-Standard Taxiways

Cynthia Straughan, Assistant Director, FAR 139 Pavements

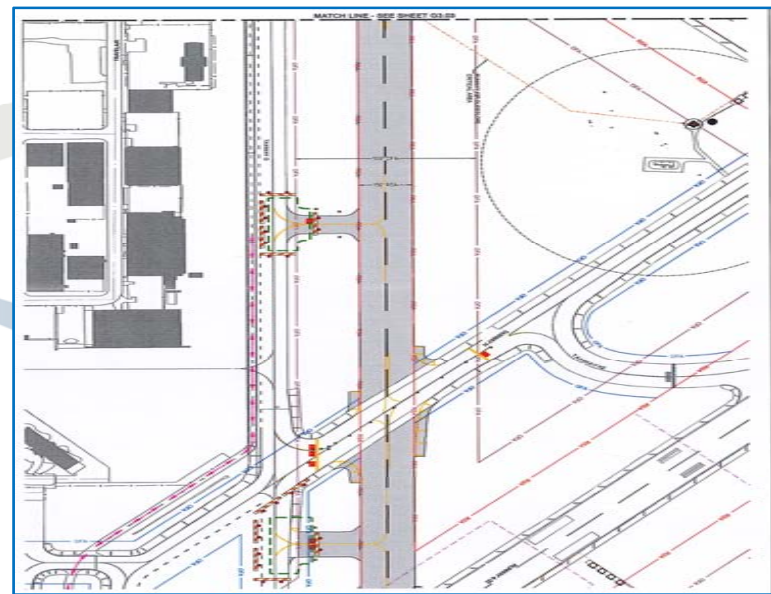




HOU Non-Standard Taxiways

Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Proposed Phased Demolition
- Intersections With FBOs
- Functioning Airport
- Aged Pavement To Demolish
- Accessways/Haul Routes

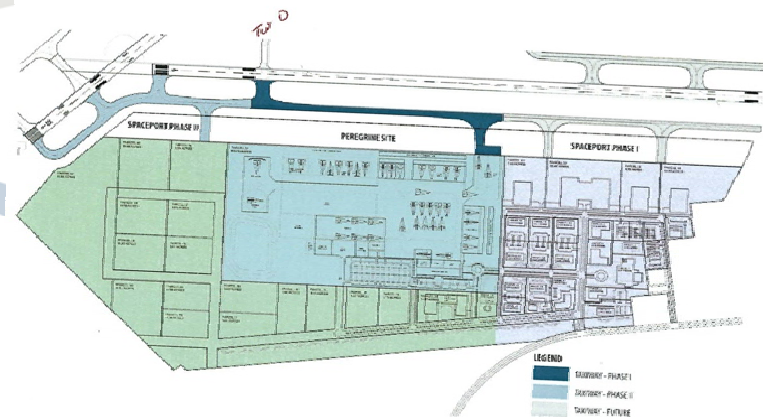




EFD Taxiway L

Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Design
 - 8000 LF + Associated Accessways
 - Green Field Site
 - Alternate: Underground Storm Detention
 - Planning Underway
 - Advertise ~December 2020
 - NTP ~July 2021





Infrastructure Industry Day

Question And Answer Opportunity



Thank You For Attending



Infrastructure Industry Day

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