



**NORTHWEST FLORIDA**  
BEACHES INTERNATIONAL AIRPORT

# MASTER PLAN UPDATE

PUBLIC MEETING #1  
OCTOBER 29, 2020

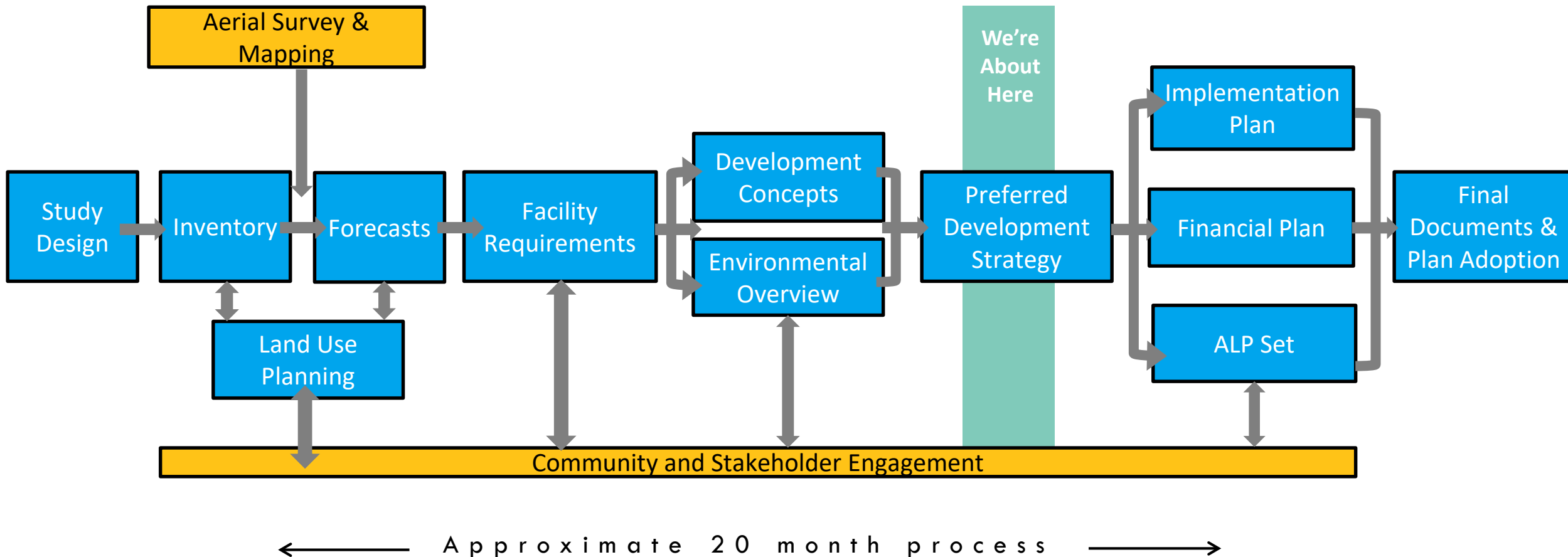


# Briefing Agenda

- ✈ Progress to Date
- ✈ Forecasts & Facility Requirements
- ✈ Alternatives Evaluation Update
- ✈ Terminal Development Alternatives
- ✈ Next Activities



# Progress to Date







# FORECASTS & FACILITY REQUIREMENTS SUMMARY

# Forecast Summary

Year	Based Aircraft	Enplanements	Itinerant Operations			
			Air Carrier	GA	Military	Total
<b>2018</b>	104	528,431	10,871	40,579	12,473	64,313
<b>Base</b>	105	679,100	14,141	40,970	12,473	67,982
<b>PAL 1</b>	110	823,553	17,214	41,604	12,473	71,727
<b>PAL 2</b>	114	923,351	19,014	42,281	12,473	74,249
<b>PAL 3</b>	119	1,022,076	20,744	43,007	12,473	76,736
<b>PAL 4</b>	124	1,126,637	22,532	43,784	12,473	79,334
<b>AAGR</b>	0.90%	2.6%	2.4%	0.3%	0.0%	0.8%
<b>Growth</b>	18.50%	65.9%	59.3%	6.9%	0.0%	16.7%

# Planning Factors

➔ As actual activity levels approach a PAL and trigger the need for a facility improvement, sufficient lead time for planning, design and construction must be also given to ensure that the facilities are available for the impending demand.

**Planning Activity Levels (PALs)**

Enplanements	2018	Base	PAL 1	PAL 2	PAL 3	PAL 4
Annual	528,431	679,100	823,553	923,351	1,022,076	1,126,637
Peak Month	63,893	82,111	99,576	111,643	123,580	136,223
Average Day	2,061	2,649	3,212	3,601	3,986	4,394
Peak Hour	644	829	1,004	1,126	1,246	1,374



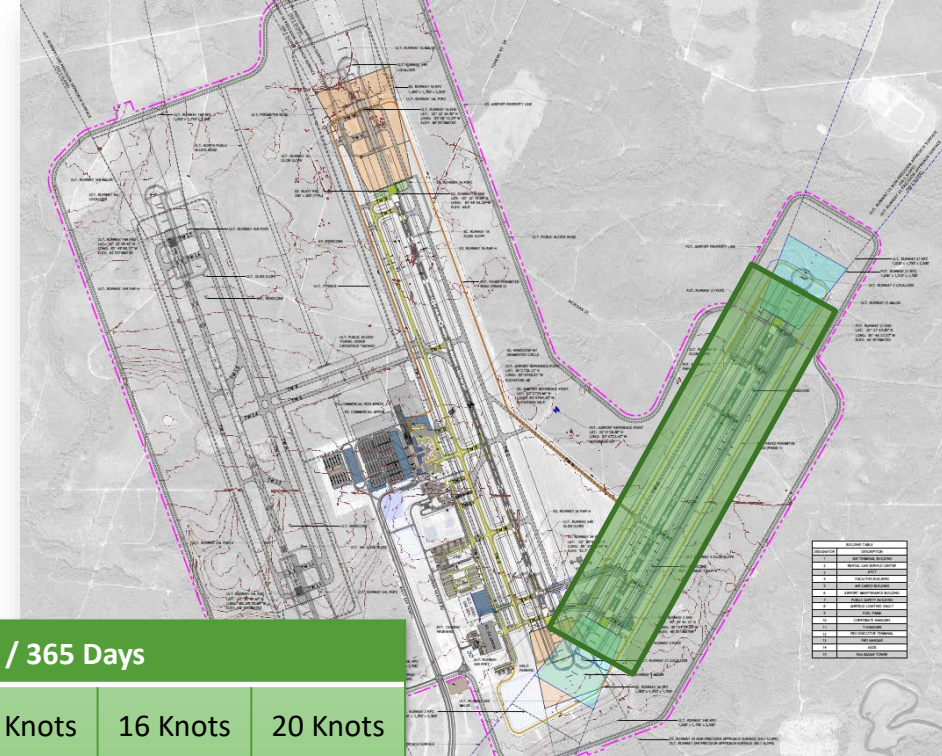
An aerial photograph of an airfield and general aviation facility. The image shows a long runway and taxiway system in the upper half, with a cluster of hangars and other buildings in the lower right. The surrounding area is mostly green, indicating forested or undeveloped land. The text "AIRFIELD & GENERAL AVIATION FACILITY NEEDS" is overlaid in large, bold, blue letters with a slight shadow effect.

# **AIRFIELD & GENERAL AVIATION FACILITY NEEDS**



# Crosswind Runway Analysis

- ➔ Analysis Conducted for Runway 16-34
- ➔ Runway 3-21 is Justified for Wind
- ➔ Ultimate Length of 7,500' for Full Range of Aircraft that Use ECP (3,600' for B-I Aircraft; Eligible for Federal Funding)



24 Hours / 365 Days

All-Weather Conditions	10.5 Knots	13 Knots	16 Knots	20 Knots
RW 16-34	94.83%	97.30%	99.18%	99.76%

6 AM-10 PM / 365 Days

All-Weather Conditions	10.5 Knots	13 Knots	16 Knots	20 Knots
RW 16-34	91.04%	95.52%	98.89%	99.67%



# Airfield Plan

## → AIP-Eligible

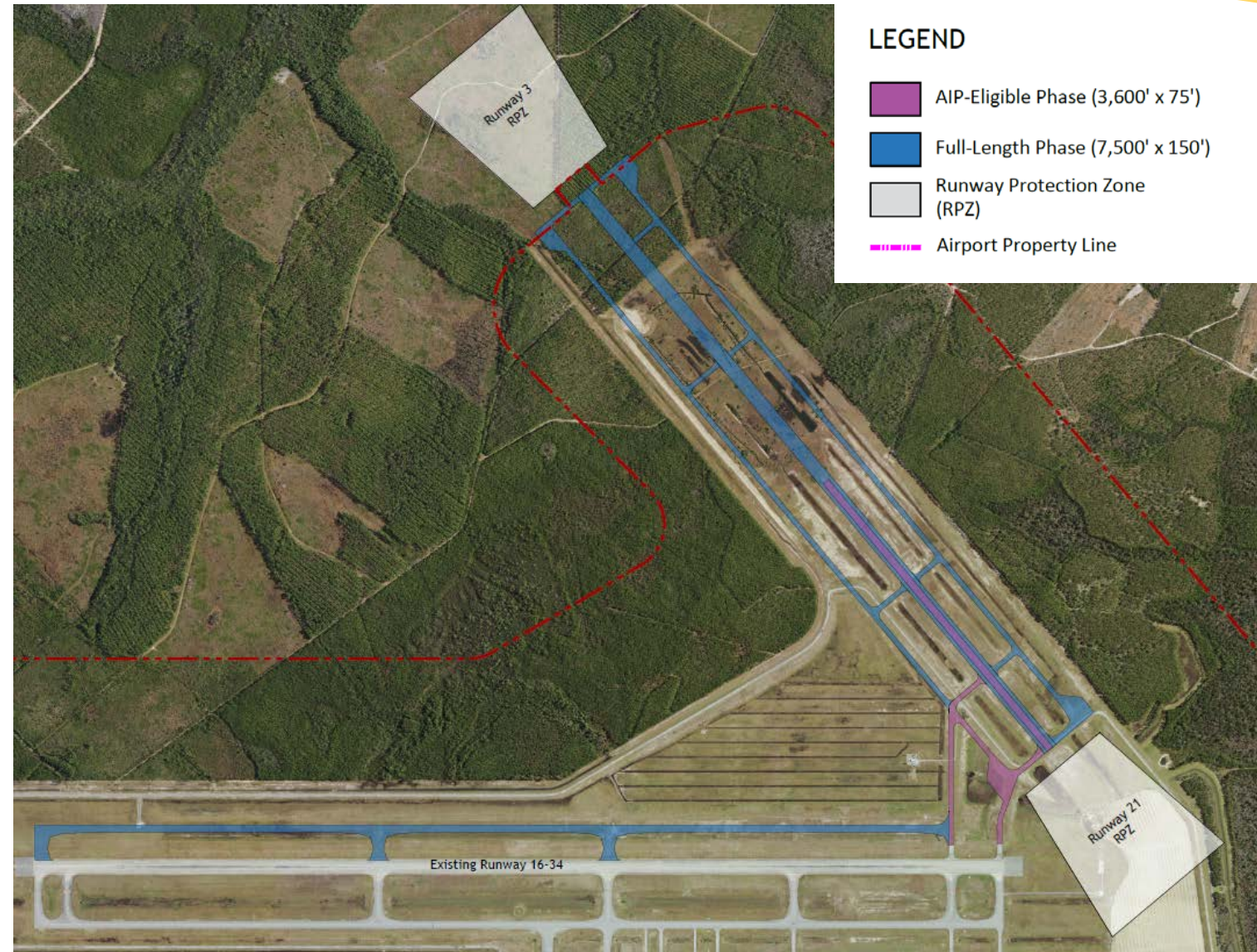
- ✦ Crosswind Runway at 3,600' (B-I)

## → Full Length

- ✦ Crosswind Runway Extended to 7,500' (D-III)

## → Taxiway Alternatives

- ✦ Dual parallel taxiways for crosswind runway
- ✦ Dual parallel taxiway for existing runway



# General Aviation Development

- ➔ Expansion of FBO and General Aviation Apron
- ➔ Additional Box Hangar
- ➔ Expansion of T-Hangars







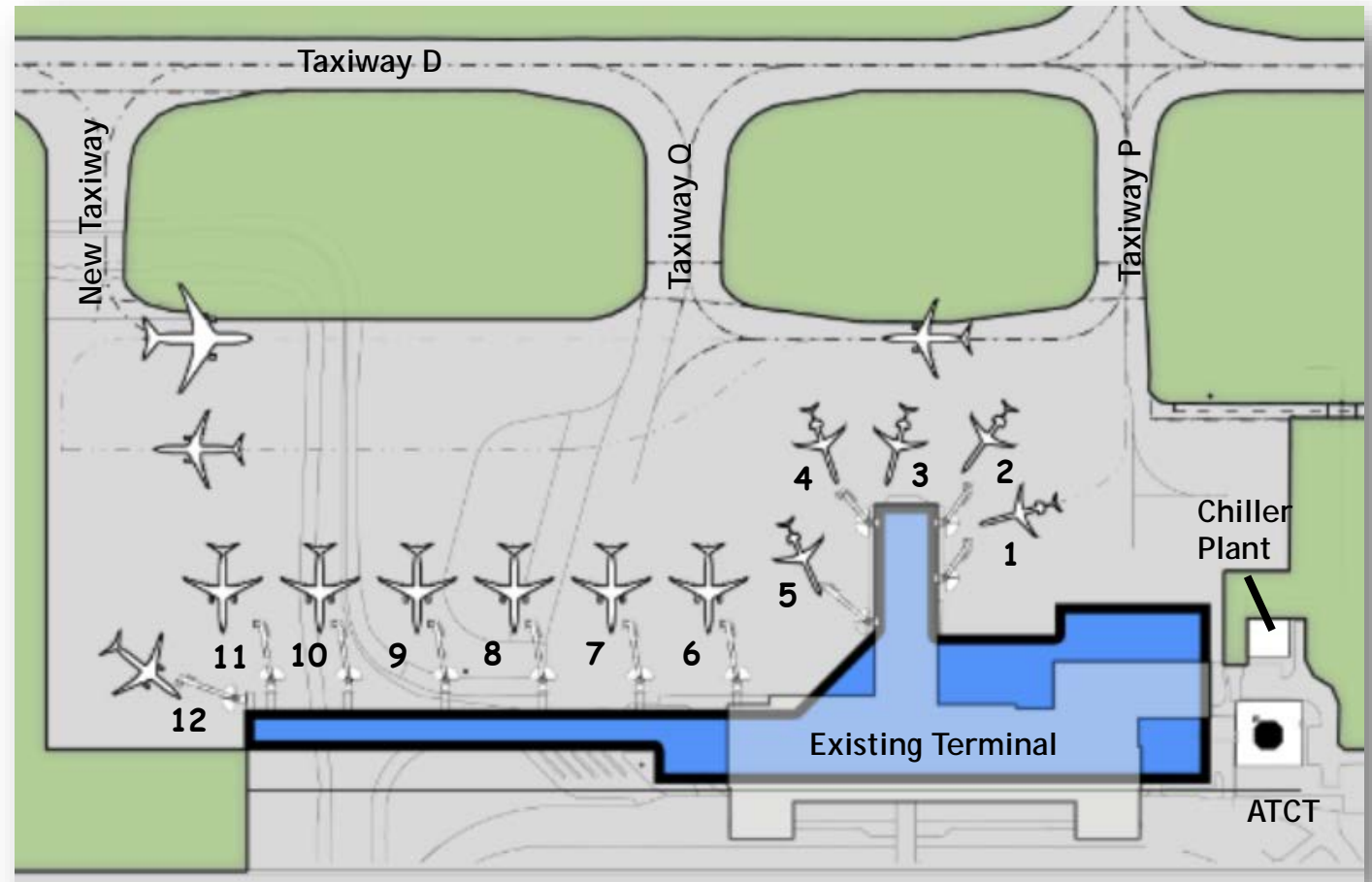
# TERMINAL ALTERNATIVES



# Alternatives Development

## ✈️ Alternative No. 1

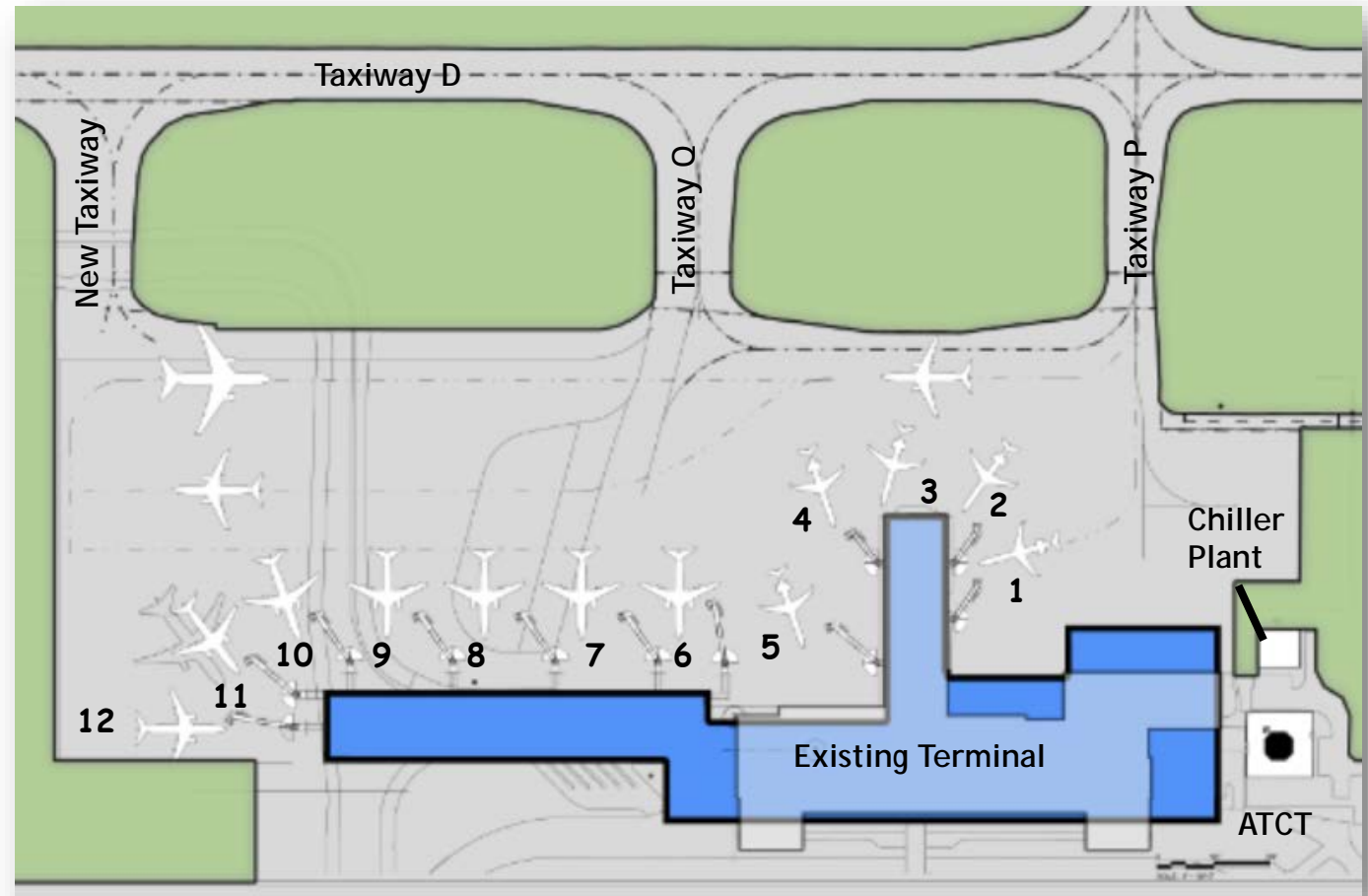
- Linear Single-Sided Extension
- Easily Expanded
- Dual Taxilanes/New Taxiway Access for Operations
- Flexible Aircraft Parking
- Opportunities for Concessions Along Concourse



# Alternatives Development

## ✈️ Alternative No. 2

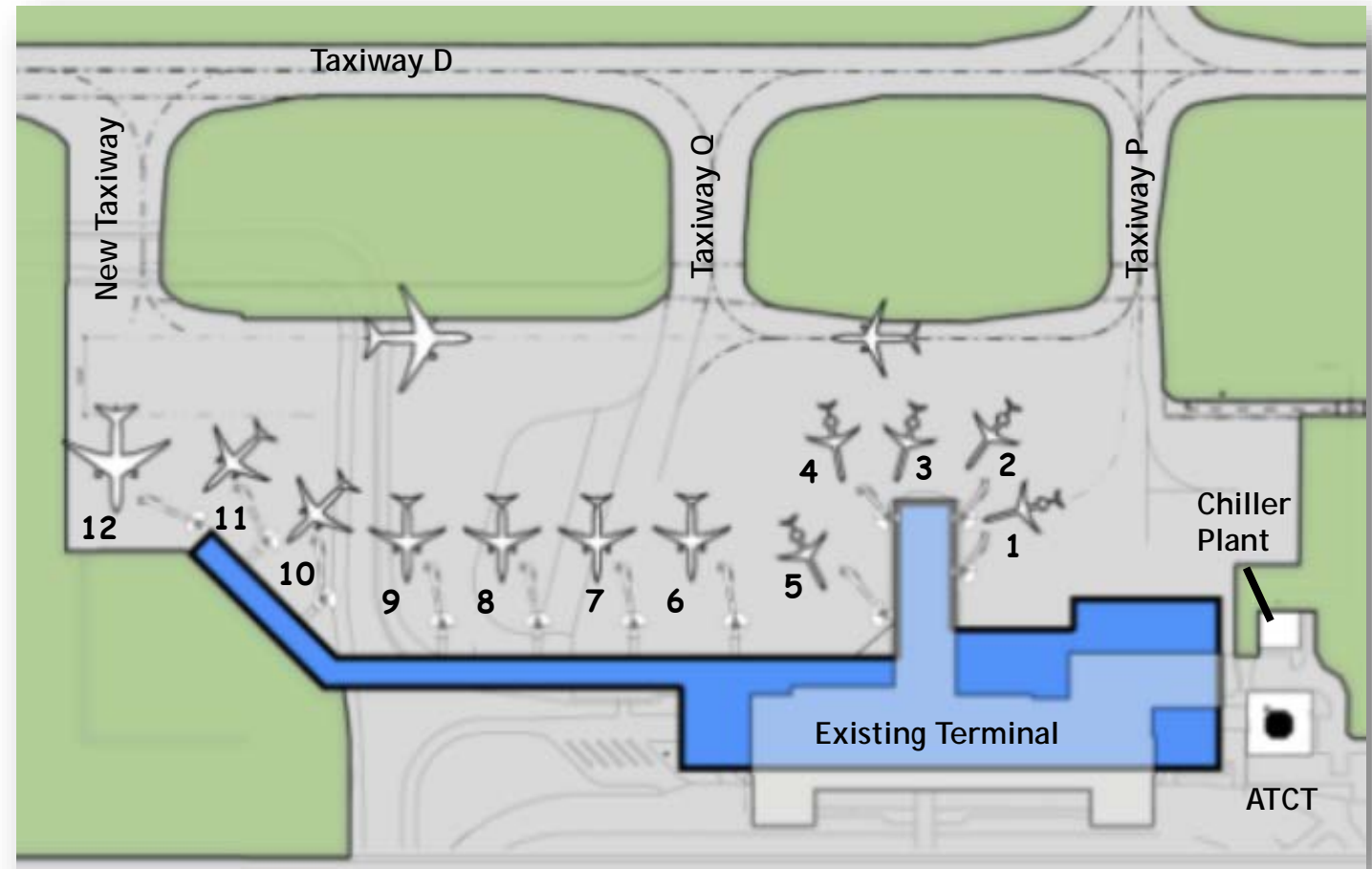
- Linear Extension
- Opportunity for Lower Level Space
- Shorter Walking Distances
- Gate-Focused Concessions
- More Opportunity for RON Parking



# Alternatives Development

## ✈️ Alternative No. 3

- Linear Single-Sided Extension
- Longer Walking Distances
- Expansion More Costly
- More Operational Issues
- Flexible Aircraft Parking

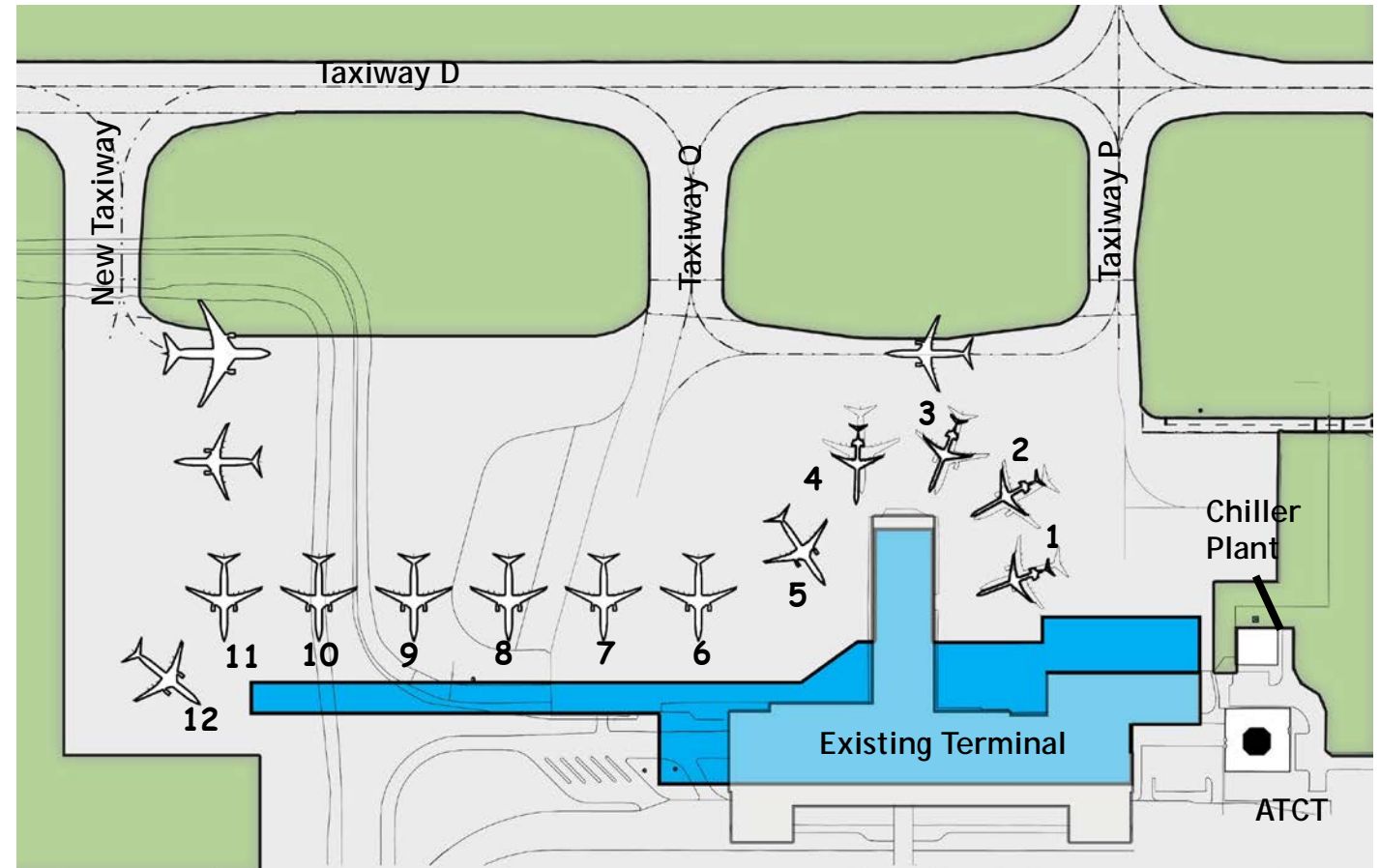




# Alternatives Development

## ✈️ Alternative No. 4

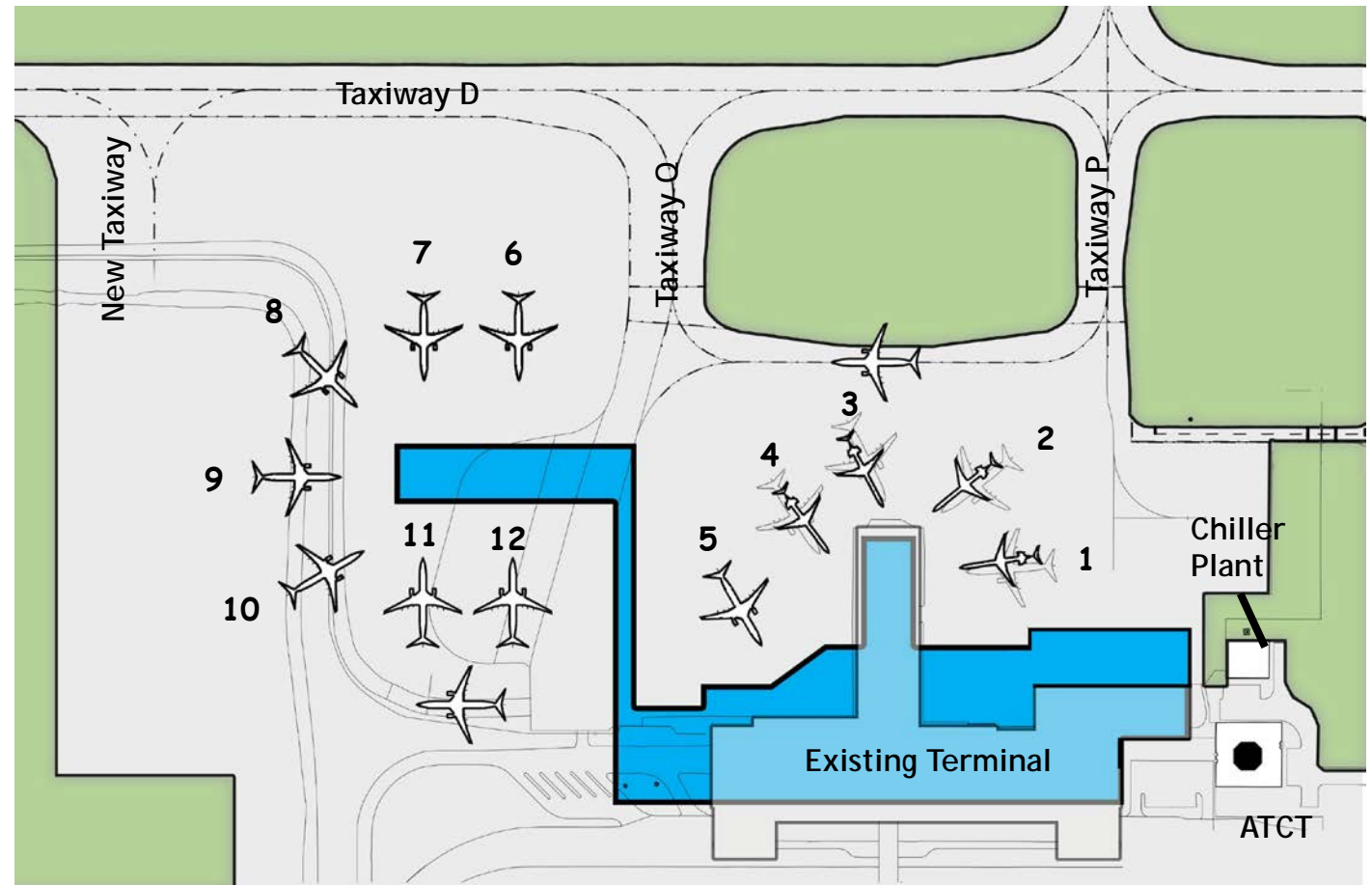
- Expands Terminal Central Core Further North
- Additional Clearance from Existing Concourse for ADG Group III Aircraft Parking
- Dual Taxilanes
- Opportunities for Concessions Along Concourse



# Alternatives Development

## ✈️ Alternative No. 5

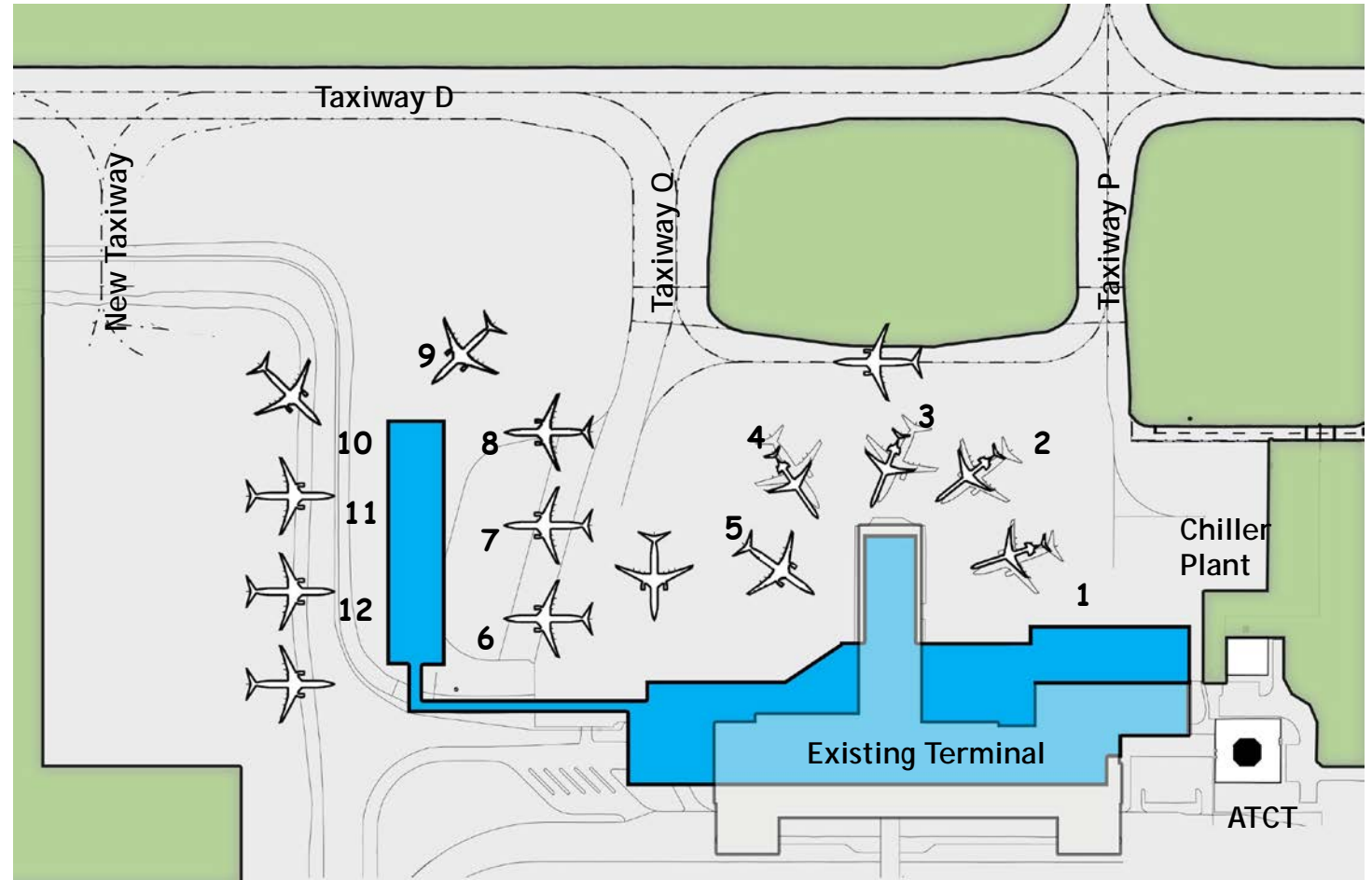
- Island Scheme
- Can be Built in Single Phase
- Additional Apron Area Needed
- Operational Issues with Aircraft Parking & Maneuvering



# Alternatives Development

## ✈️ Alternative No. 6

- Finger Scheme
- Can be Built in Single Phase
- Additional Apron Needed
- Operational Issues with Aircraft Parking & Maneuvering





# Alternatives Evaluation

Concept Alternative	ECP Vision Compatibility / Passenger Experience	Operational Efficiency	Flexibility	Cost	Non-Aeronautical Revenue	Environmental	Constructability / Implementation Complexity	Weighted Total
Criteria Weight/Ranking	1	2	3	4	5	6	7	
Alternative 1	3	2	2	2	2	3	4	77
Alternative 2	4	2	3	2	4	3	4	91
Alternative 3	4	4	2	4	3	4	3	94
Alternative 4	2	2	2	2	2	3	3	69
Alternative 5	4	4	3	5	2	4	3	96
Alternative 6	3	3	2	5	2	4	2	83

Notes:

- Score 1 to 5, score of 1 is best, score of 5 is worst
- Criteria Weight/Ranking per ECP, 1 is highest/most important weight
- Initial score and ranking based on comparative evaluation of alternatives

Color	Rating
	1, 2
	3, 4
	5

# LANDSIDE ALTERNATIVES

A photograph of an airport terminal building with a long, covered walkway. A red SUV is parked on the left side of the road in front of the terminal. Several people are standing near the car. In the background, other vehicles are visible on the road, and the sky is clear and blue. The text "LANDSIDE ALTERNATIVES" is overlaid in large, bold, blue capital letters across the center of the image.

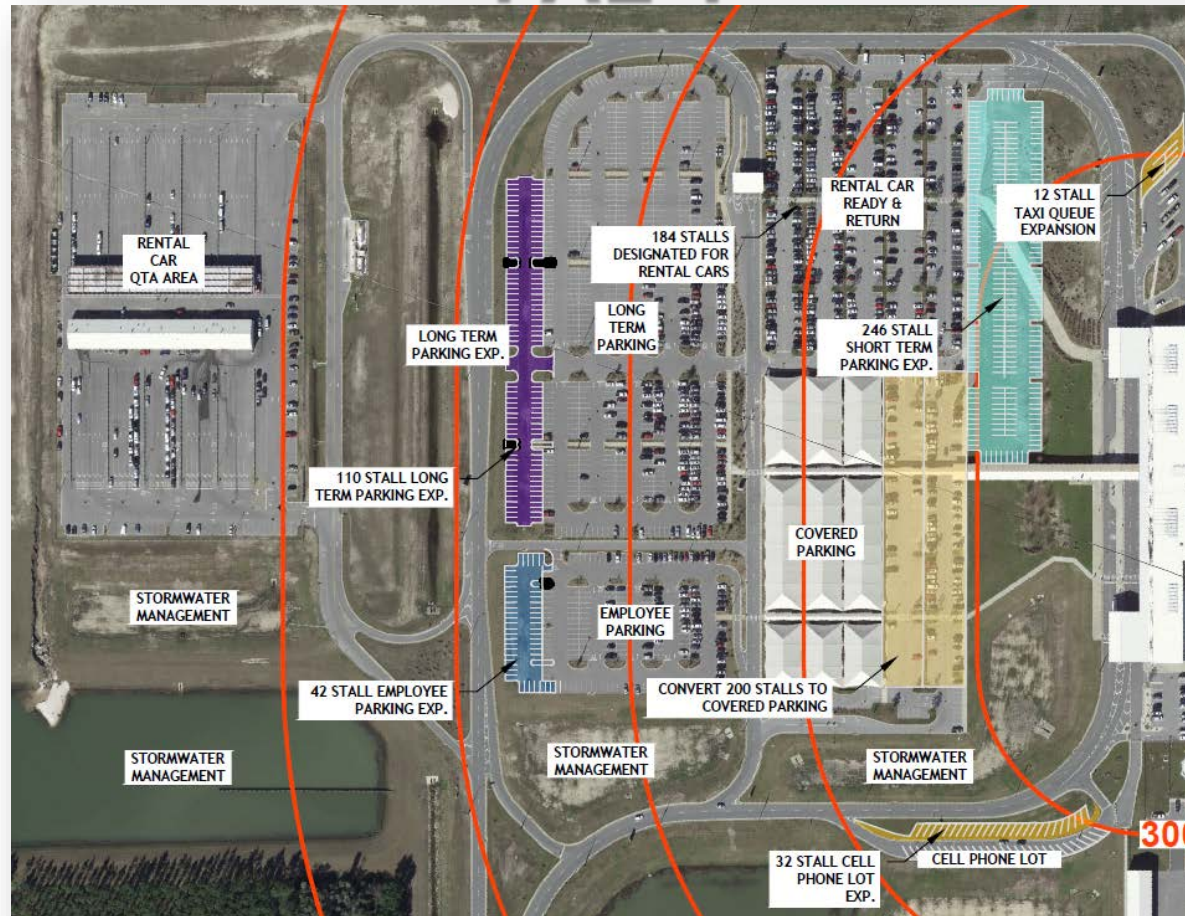
# Ground Access and Parking

- ➔ Currently 1,800 surface parking spaces for short-term, long-term, employee, and rental car ready/return parking
- ➔ Additional 300 spaces for overflow parking and 885 spaces for rental car QTA (Quick Turnaround)
- ➔ Current parking demand will be exceeded by PAL 1
- ➔ A four-phased approach is recommended to meet long-term parking demand

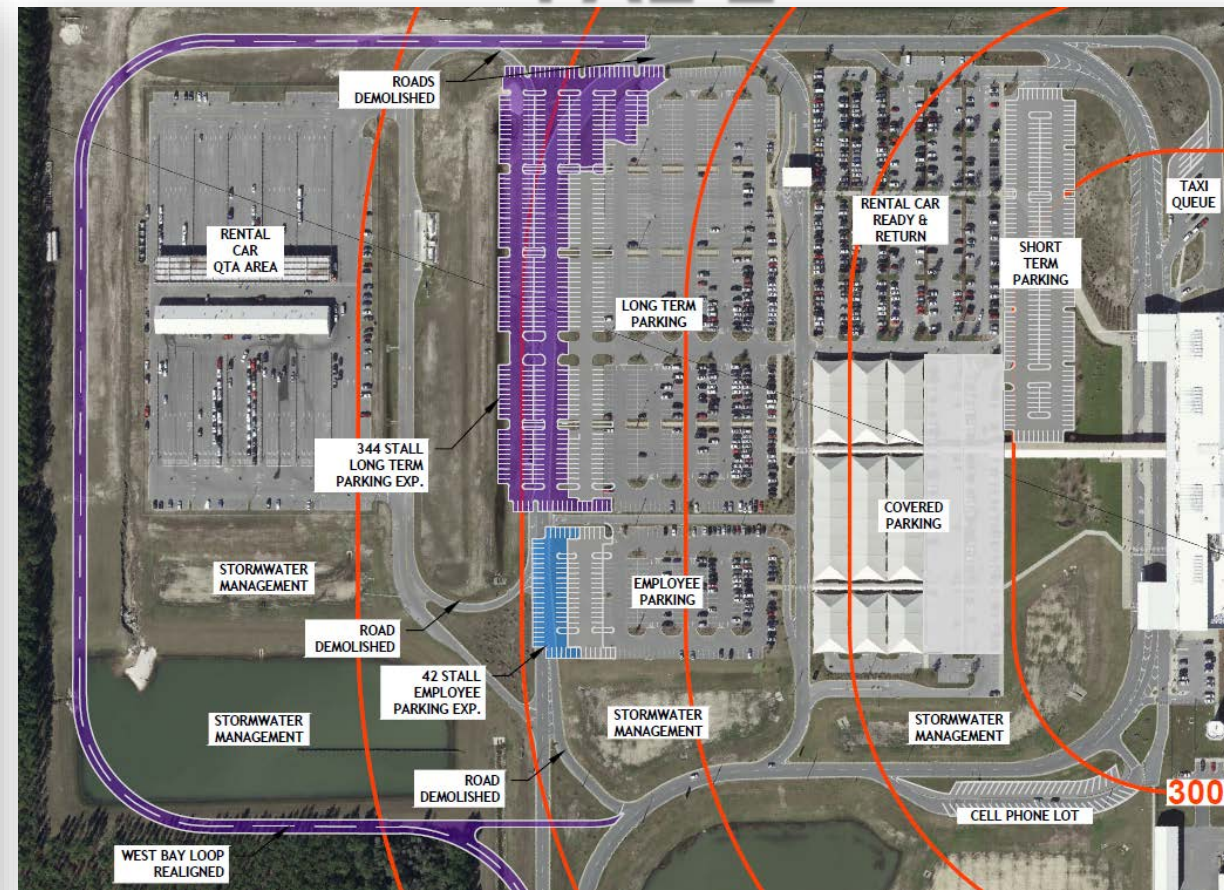


# Ground Access and Parking

PAL 1



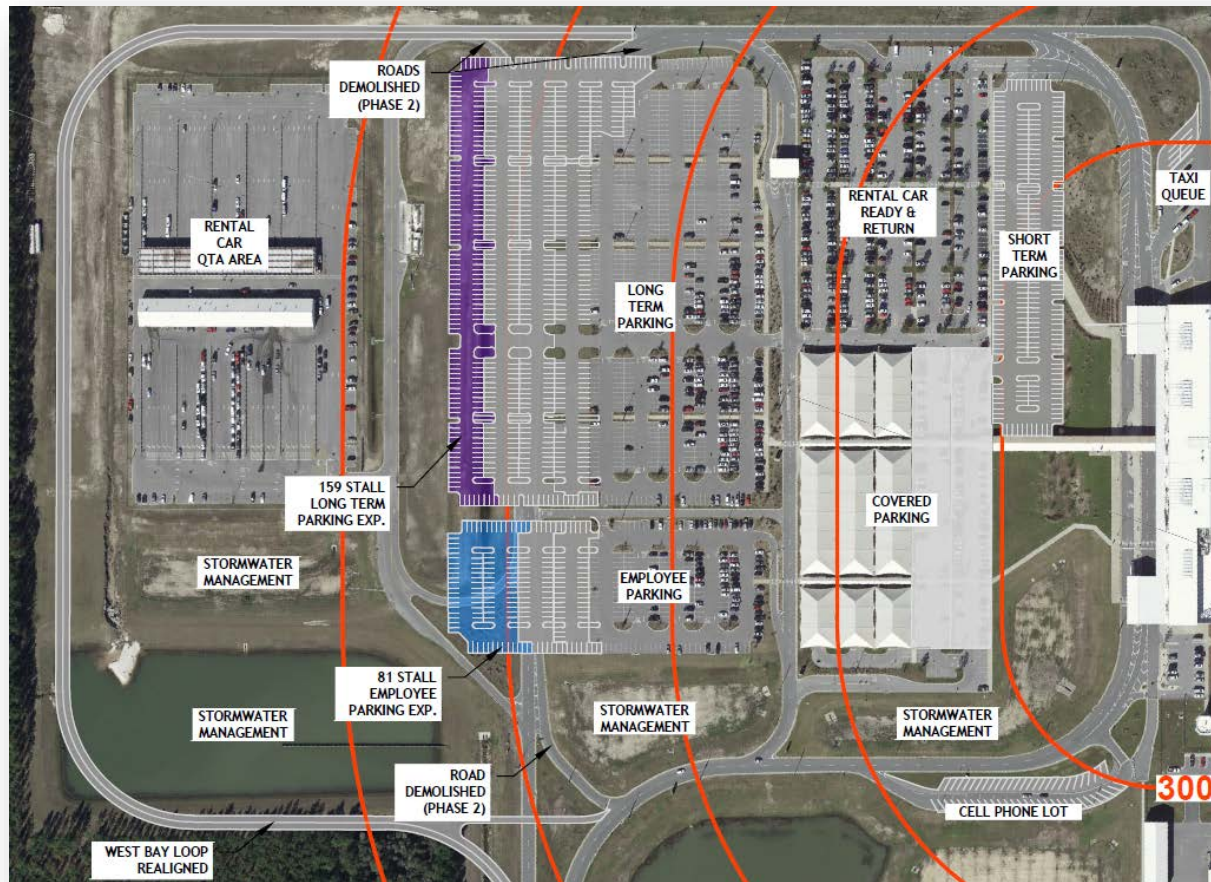
PAL 2



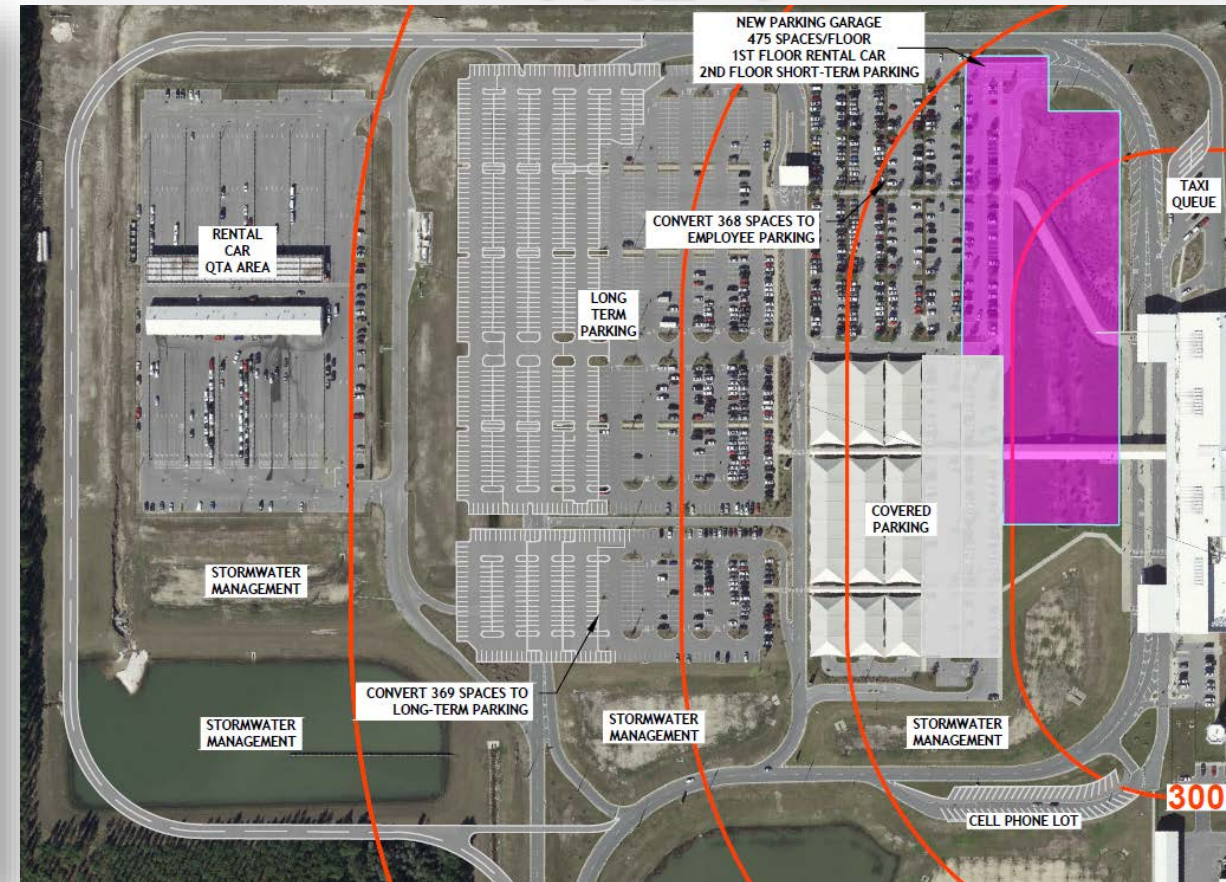


# Ground Access and Parking

## PAL 3



## PAL 4





# Progress To Date

- Working Paper #1 (Inventory) Submitted
- Working Paper #2 (Forecast) Submitted
- Working Paper #3 (Facility Requirements) Submitted
- Alternatives Analysis (Working Paper #4) Draft Completed





# Next Steps...

## → This Week

- ✦ Board Briefing #7
- ✦ Public Meeting #1

## → Next Action Items

- ✦ Recommended Development Plan
- ✦ Finalize Working Paper #4

## → Financial Plan and Environmental Analysis Underway

## → Airport Layout Plan (ALP) Underway



# Questions / Comments

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