



Embrace What's Next



**Master Plan 2050
Public Open House #1**

August 7, 2018

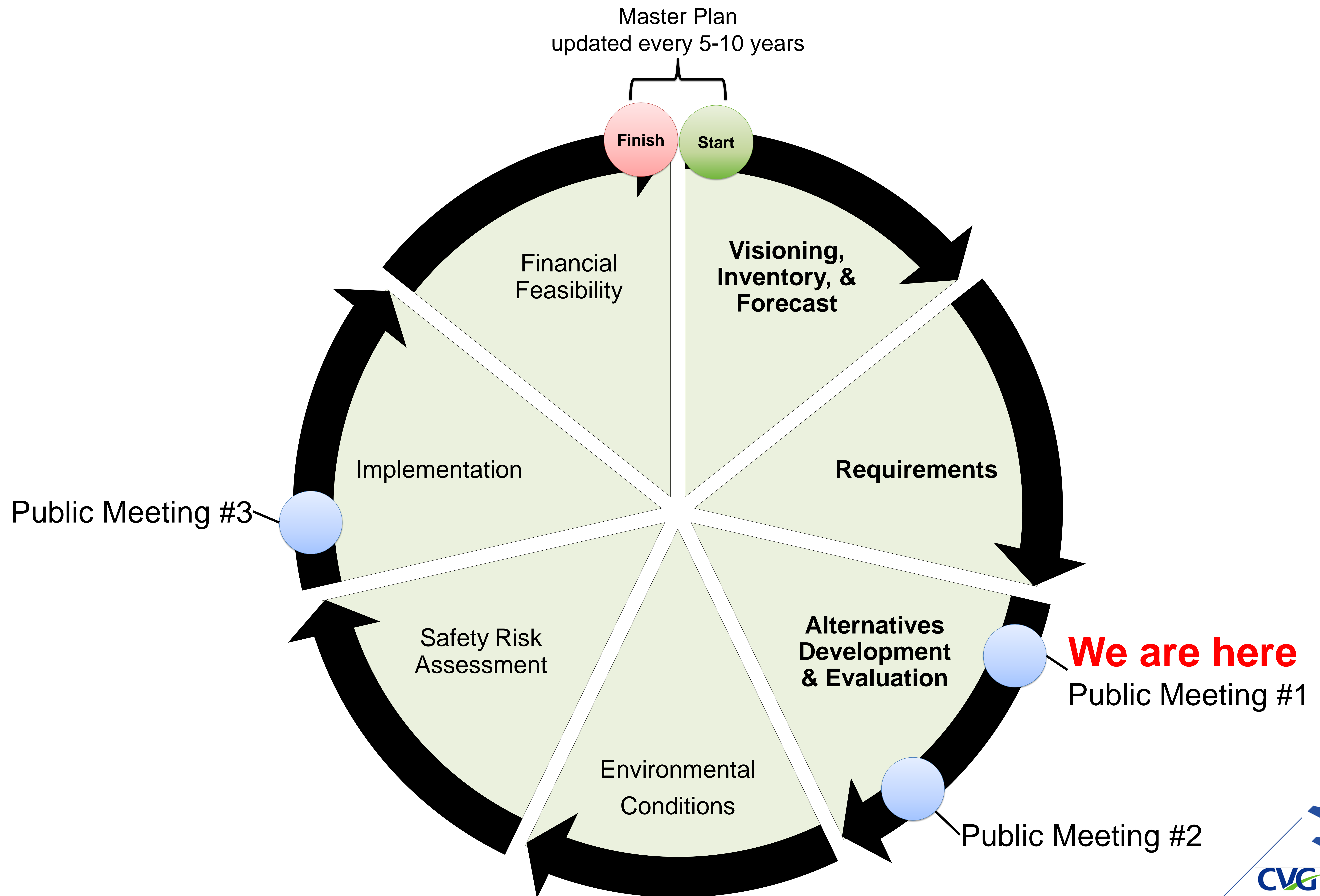


What is a Master Plan?

- A comprehensive study of an airport, describing the short-, mid-, and long-term development plans to meet future aviation demand at an airport
- Can be thought of as a tool which provides the framework necessary to guide potential airport development, while considering both internal and external impacts
- Guidelines should be consistent with local, state, and national goals
- Each Master Plan is unique, the focus of work will vary from airport to airport. A few goals of a Master Plan are:
 - To determine future aviation demand at an airport
 - To thoroughly explore concepts and alternatives on technical, economical, and environmental bases
 - To provide a graphical representation of future airport development and land use
 - To establish a schedule for implementation of proposed development
 - To identify a realistic financial plan to support development
 - To prepare and present a plan to the public that thoroughly addresses any relevant issues and adheres to local, state and federal regulations
 - To establish a framework for a continuous planning process



Master Plan Process



Why Update the Master Plan?

- Previous Master Plan - 2013
- Operational changes at CVG since completion of previous study
 - Continued shift from hub-based activity to 85%+ local traffic
 - Return and growth of air cargo operations
 - Demand for aeronautical and non-aeronautical development
- Need to review age, condition, availability and sustainability of existing passenger terminal facilities

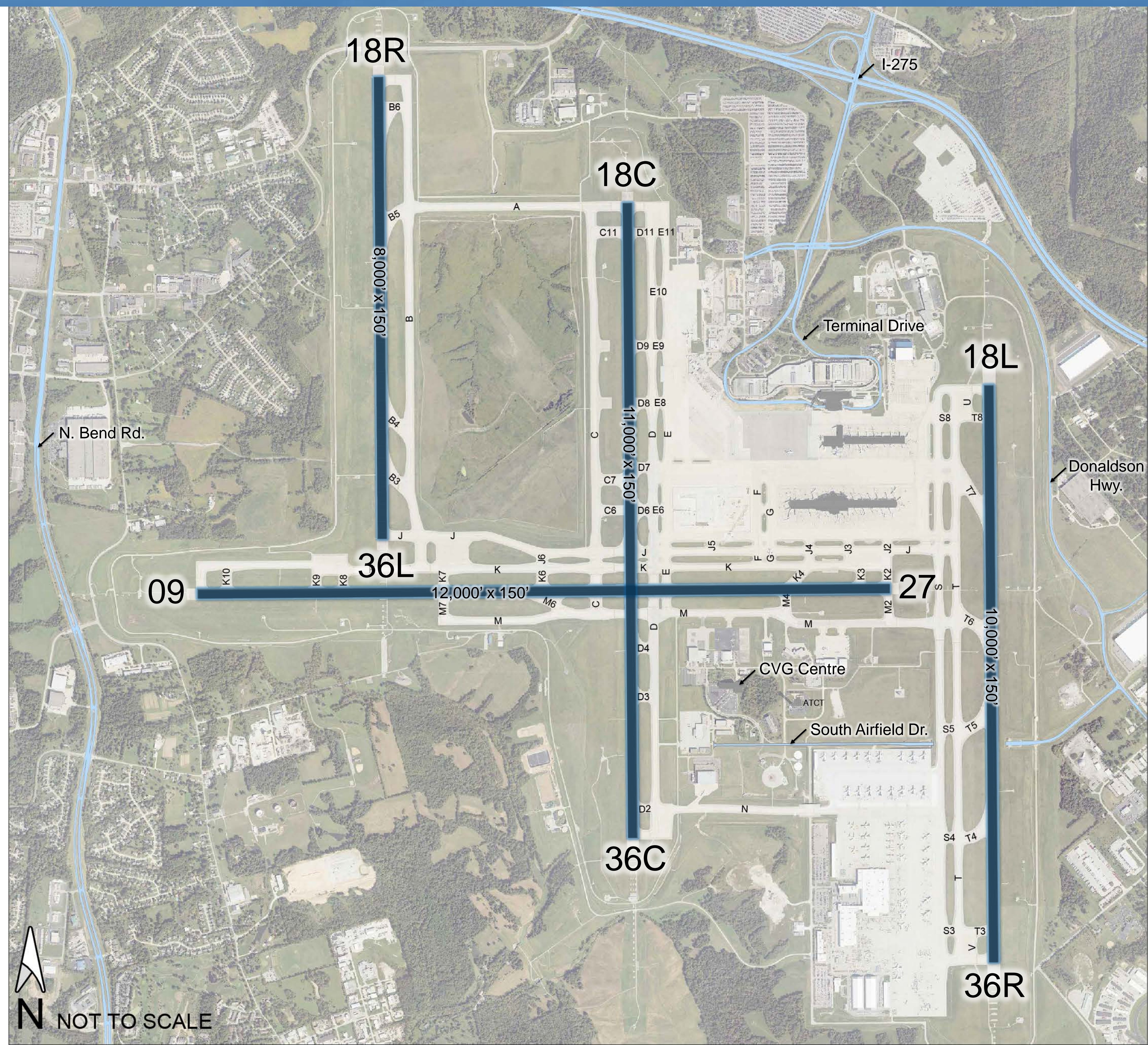


Key Areas of Focus

- Developing concourse redevelopment plan
- Ensuring airfield compliance
- Supporting passenger and cargo development
- Identify landside improvements to support CONRAC and cargo developments



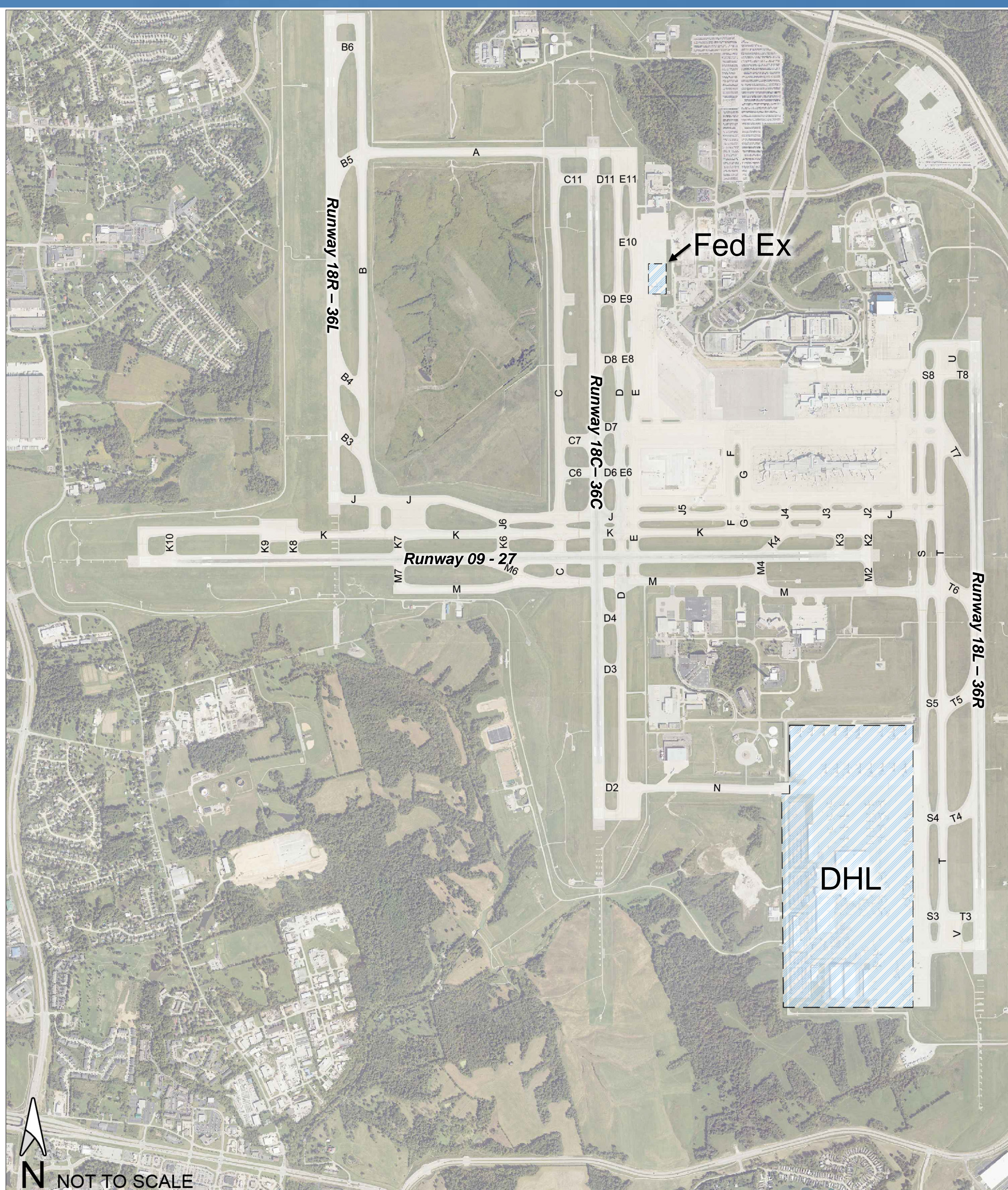
CVG Today - Airfield



CVG Today - Terminal

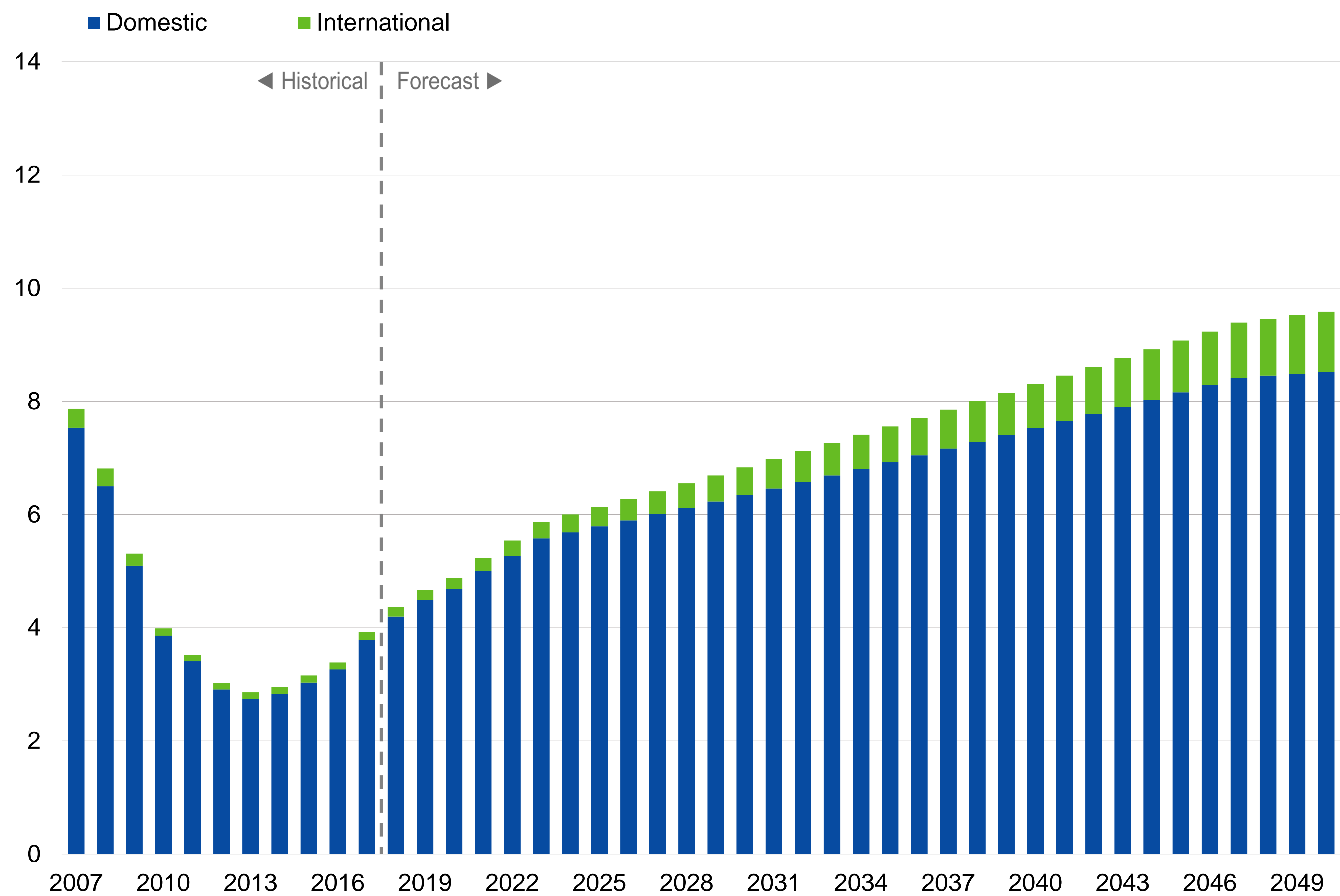


CVG Today - Cargo



Passenger Forecast Summary

Enplaned Passengers (in millions)



Domestic Enplaned Passengers
8.5 million
in 2050

International Enplaned Passengers
1.1 million
in 2050

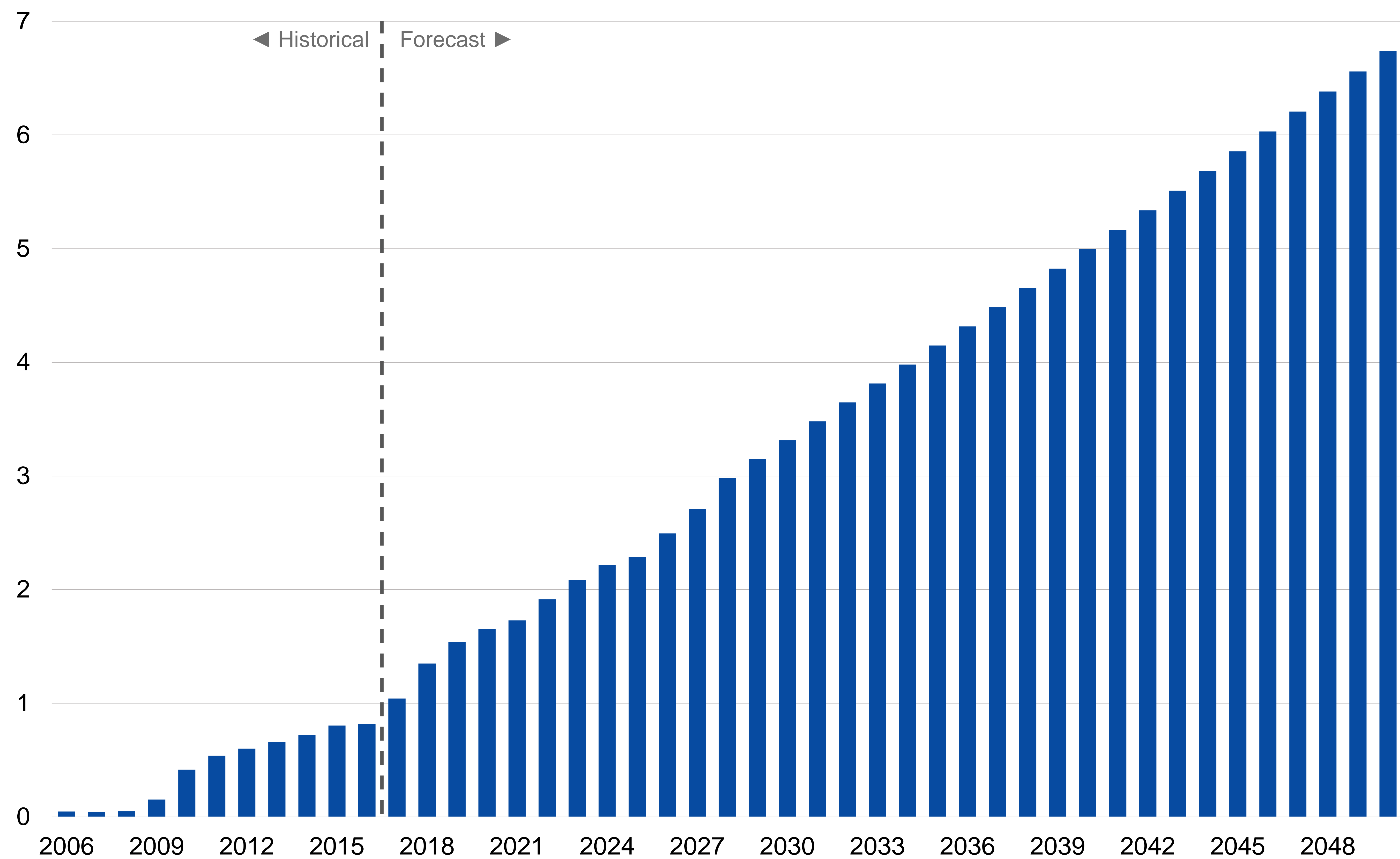
Total Enplaned Passengers
9.6 million
in 2050

Note: Draft Forecast subject to FAA review and approval.



Cargo Throughput Forecast Summary

Cargo Throughput (in millions of tons)



1.1 Million

tons in 2017

6.7 Million

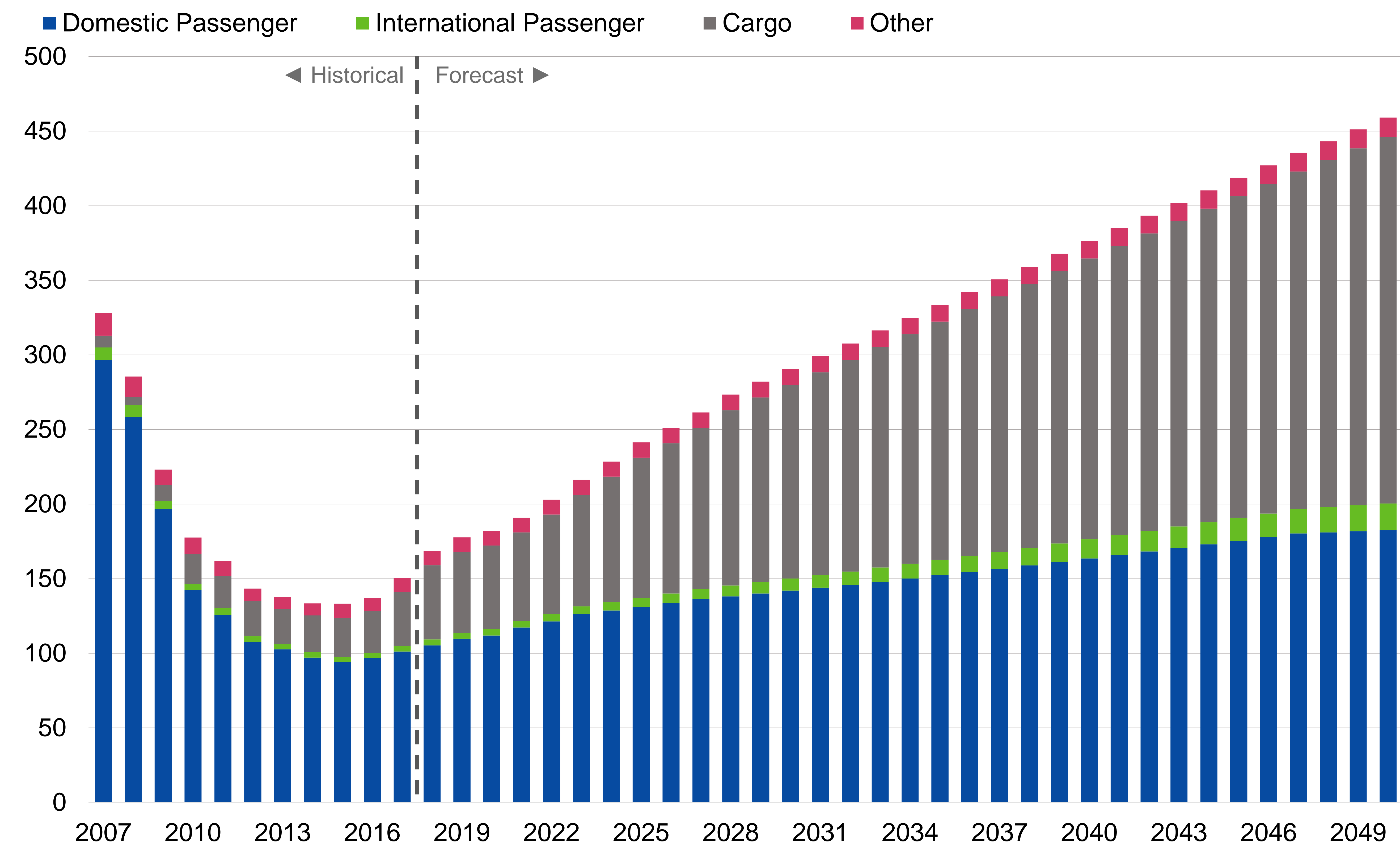
tons in 2050

Note: Draft Forecast subject to FAA review and approval.



Aircraft Operations Forecast Summary

Aircraft Operations (in thousands)



Passenger Aircraft Operations

200,380
in 2050

Cargo Aircraft Operations

245,840
in 2050

Other Aircraft Operations

12,850
in 2050

Total Aircraft Operations

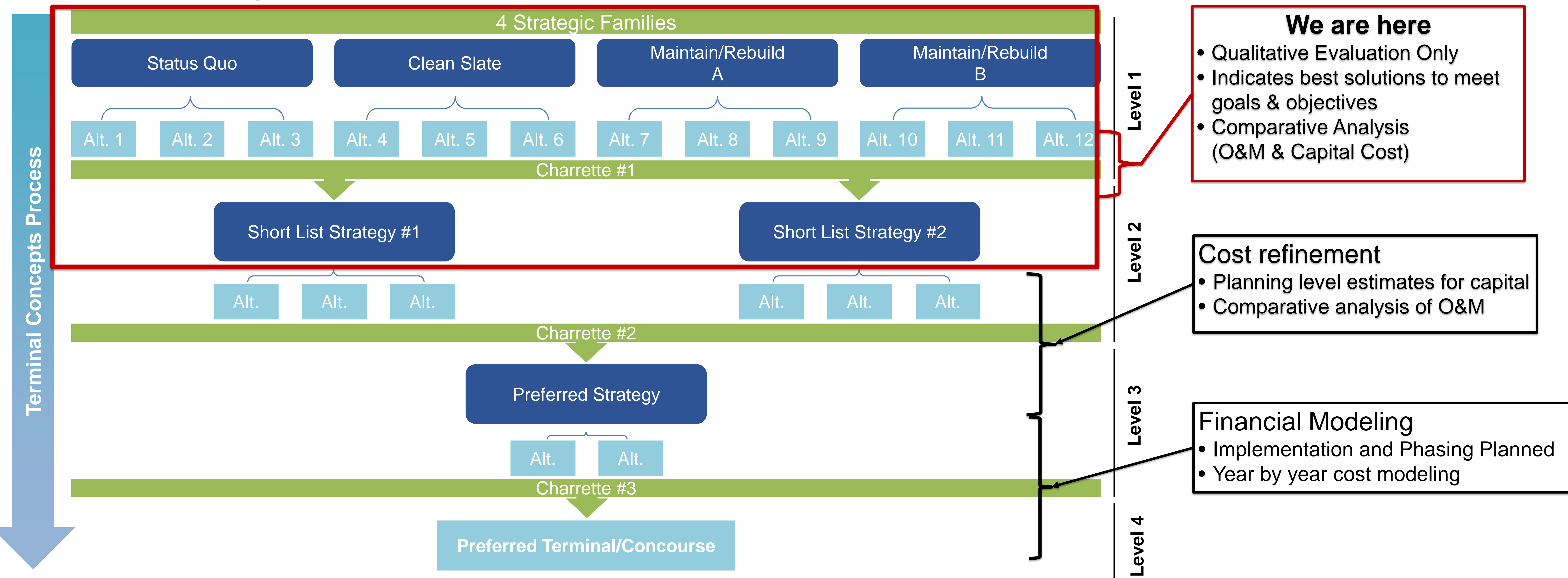
459,070
in 2050

Note: Draft Forecast subject to FAA review and approval.



Concourse Development

Concourse Development Process



Gating Concept Families

Families	APM Connection	FIS Relocation
Family 1: Status Quo – Keep A & B	Requires APM	Limited Area at Main Terminal to Relocate Int'l Gates
Family 2: Clean Slate – Close A & B	APM Not Required	Enables New FIS Facility
Family 3: Maintain/Rebuild A – Close B	APM Not Required	Requires New FIS Facility
Family 4: Maintain/Rebuild B – Close A	Requires APM	Enables New FIS Facility

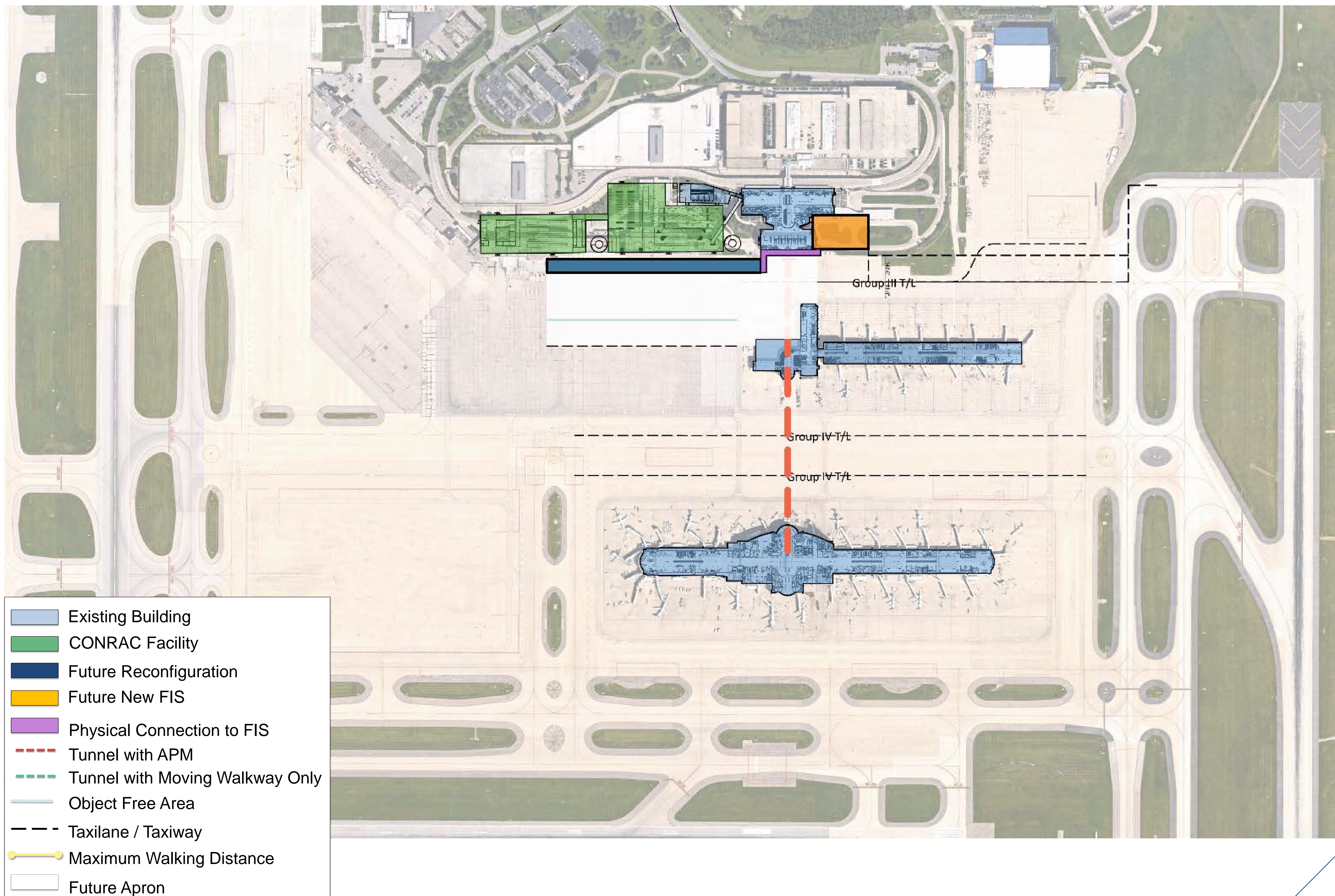
Gate Requirements

	Existing Gates	Gate Requirements				
		2017 Gates	PAL 1 (2022) Gates	PAL 2 (2027) Gates	PAL 3 (2037) Gates	PAL 4 (2050) Gates
Minimum	51	32	38	42	48	57
Maximum		38	48	51	58	69

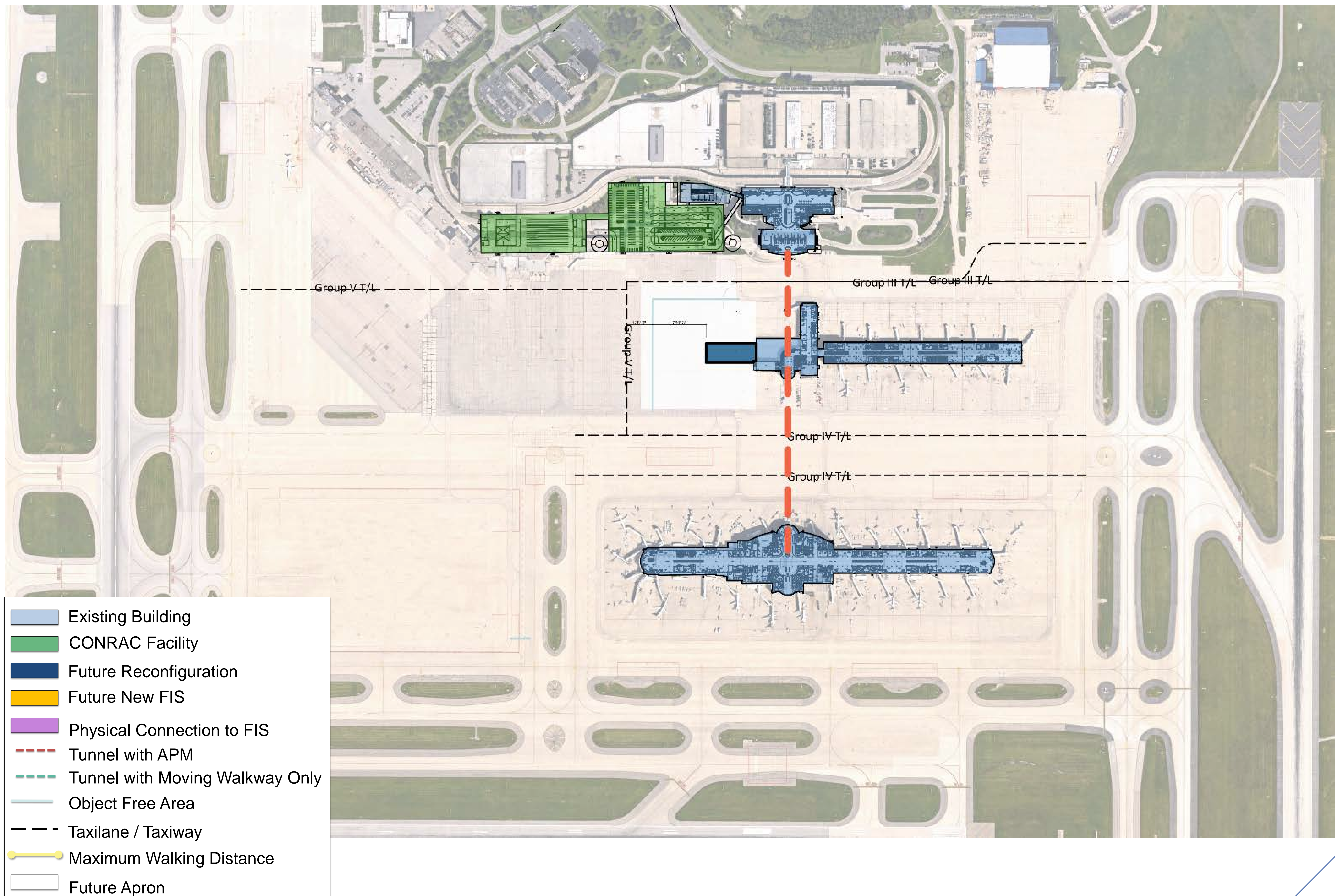
- Minimum gate requirements based on 100% common use
- Maximum gate requirements based on preferential use (min 3 turns/day)
- Exclusive and preferential gates will increase the requirement
- Gating analysis will refine requirement



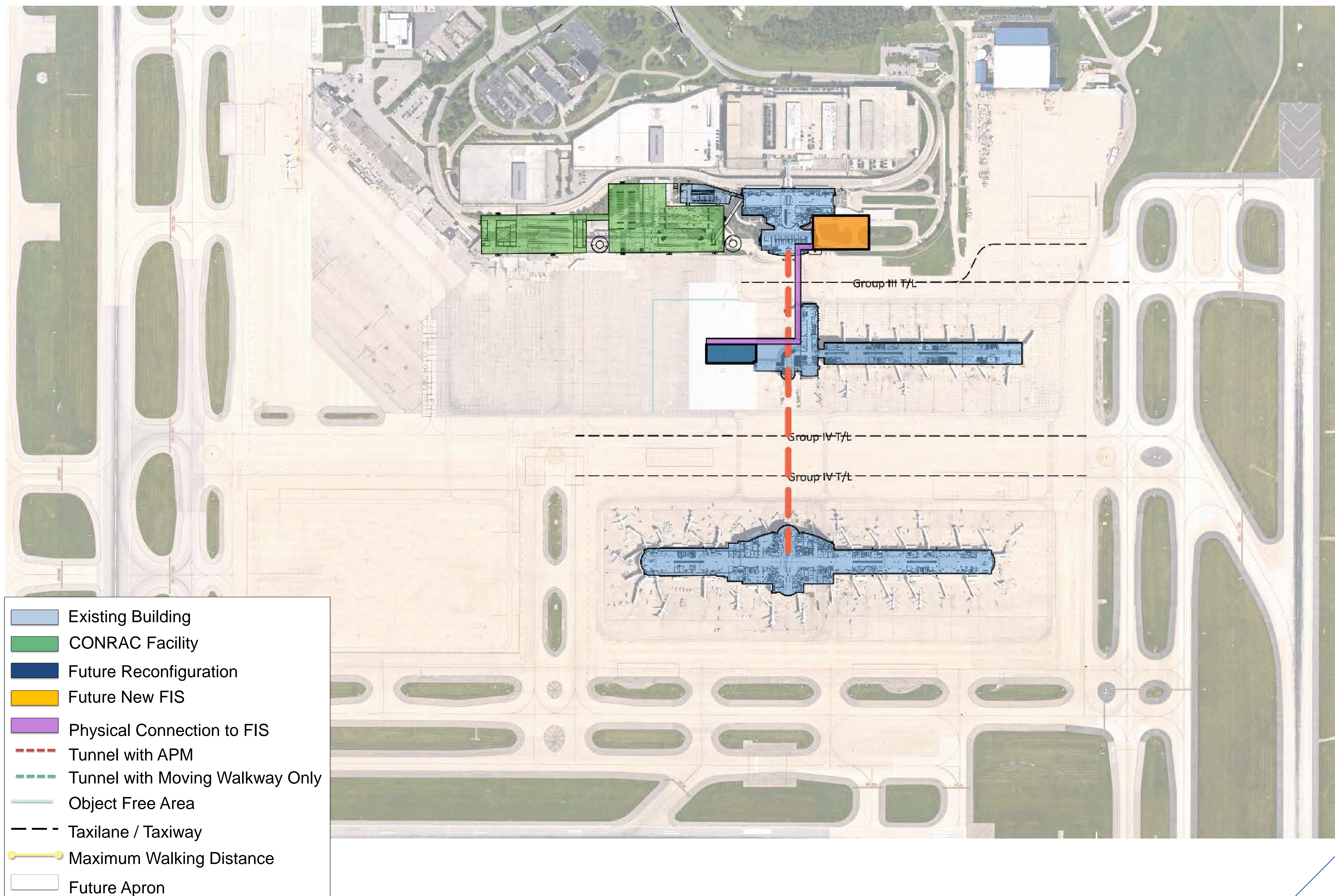
Family 1 - Concept 1



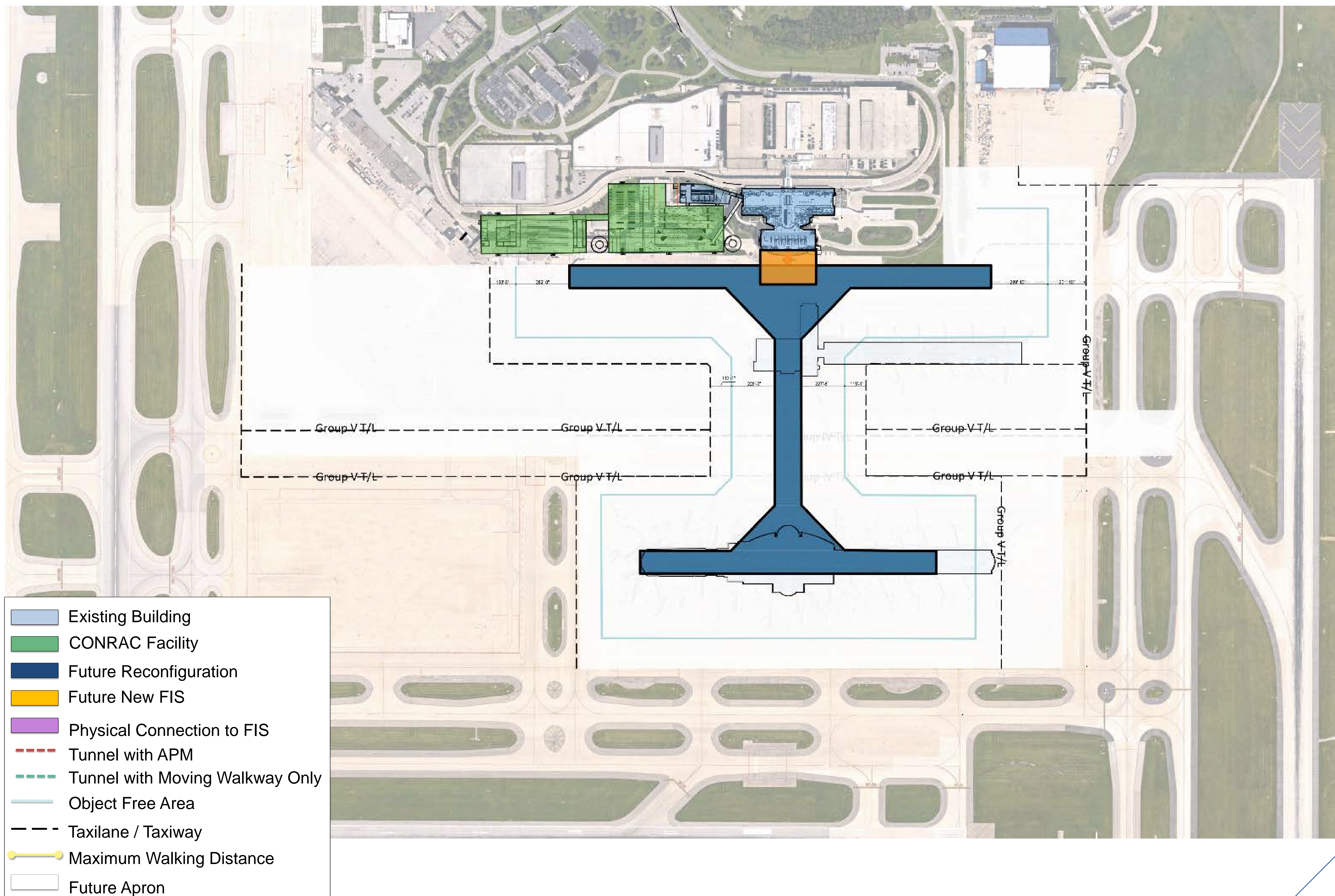
Family 1 - Concept 2



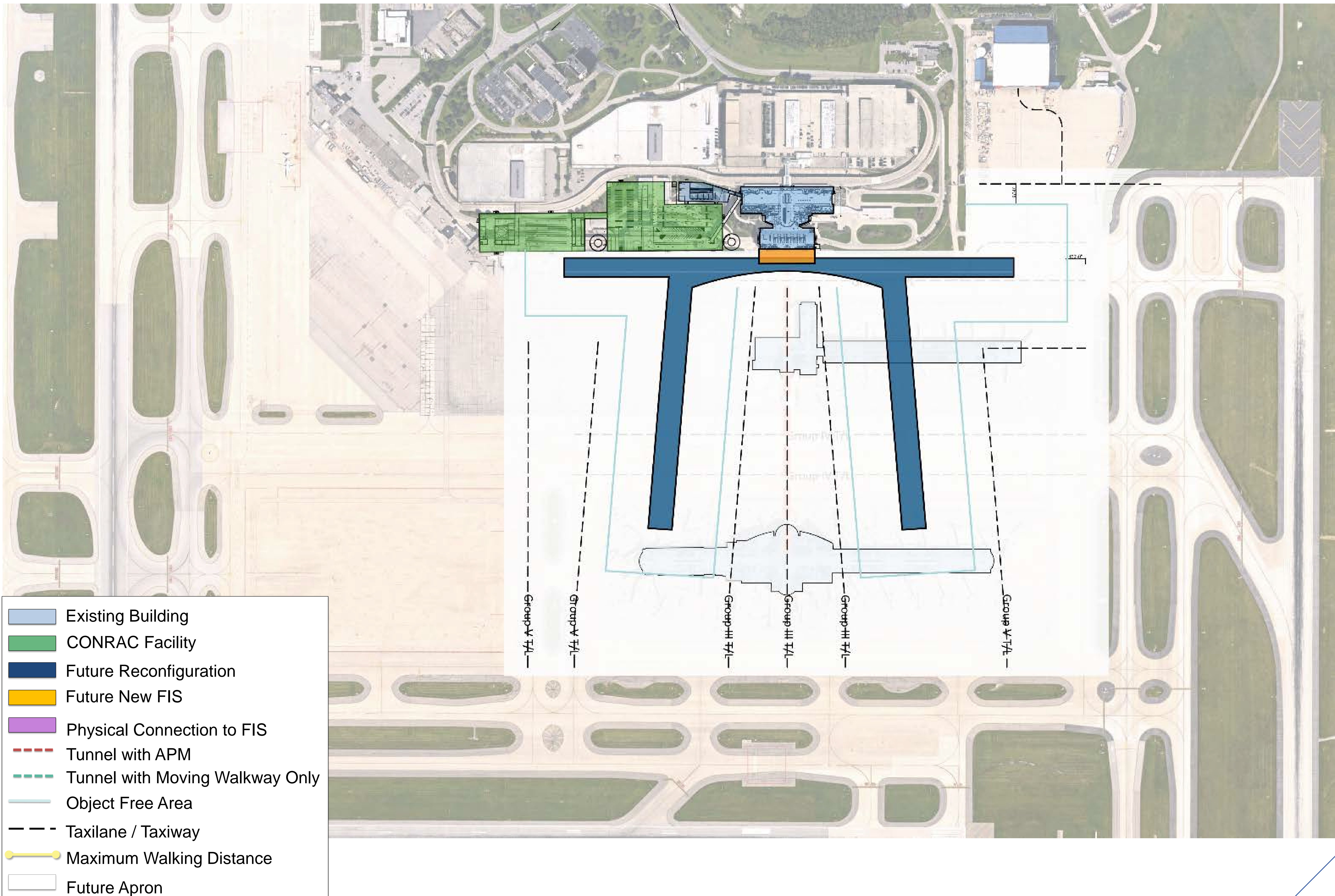
Family 1 - Concept 3



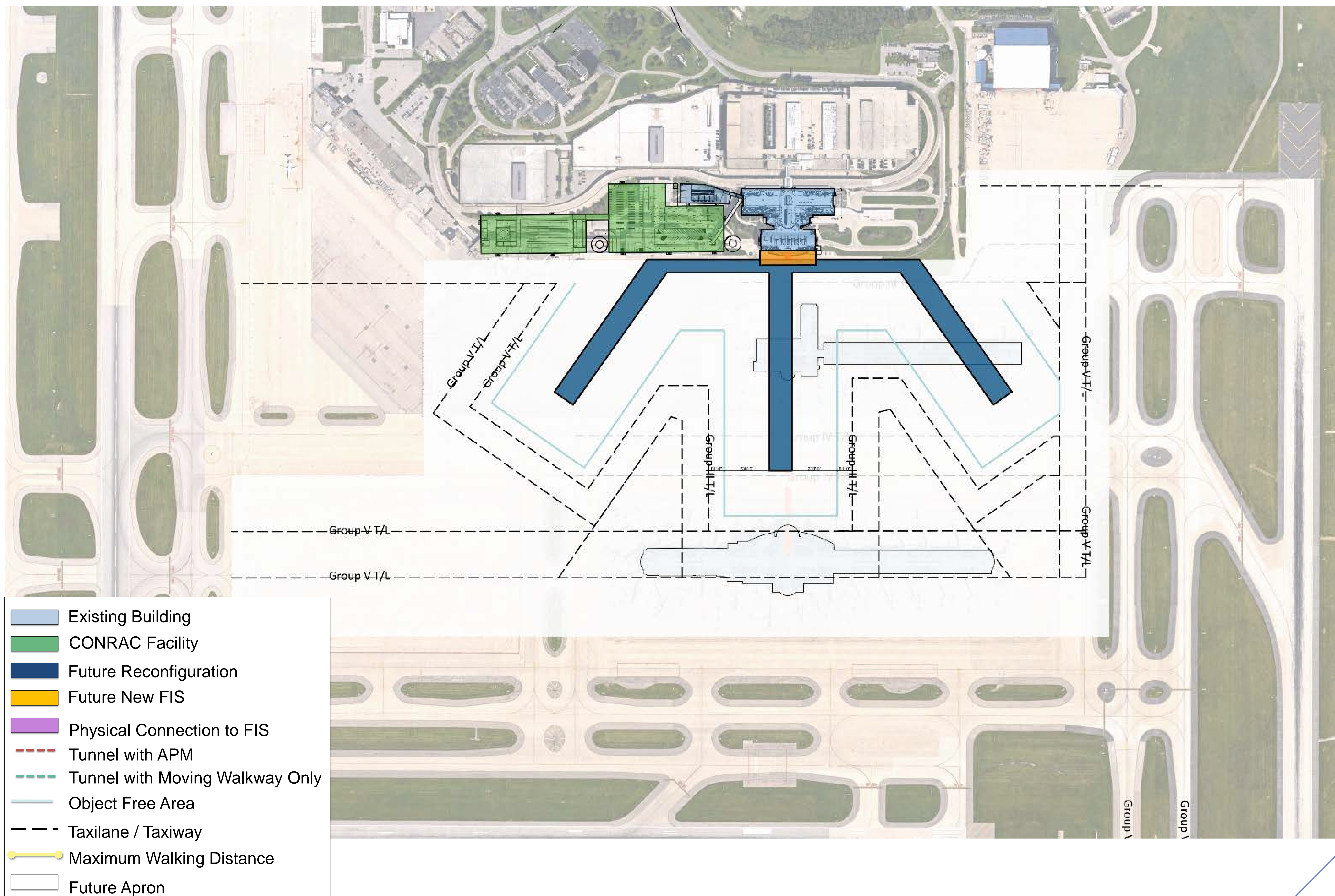
Family 2 - Concept 1



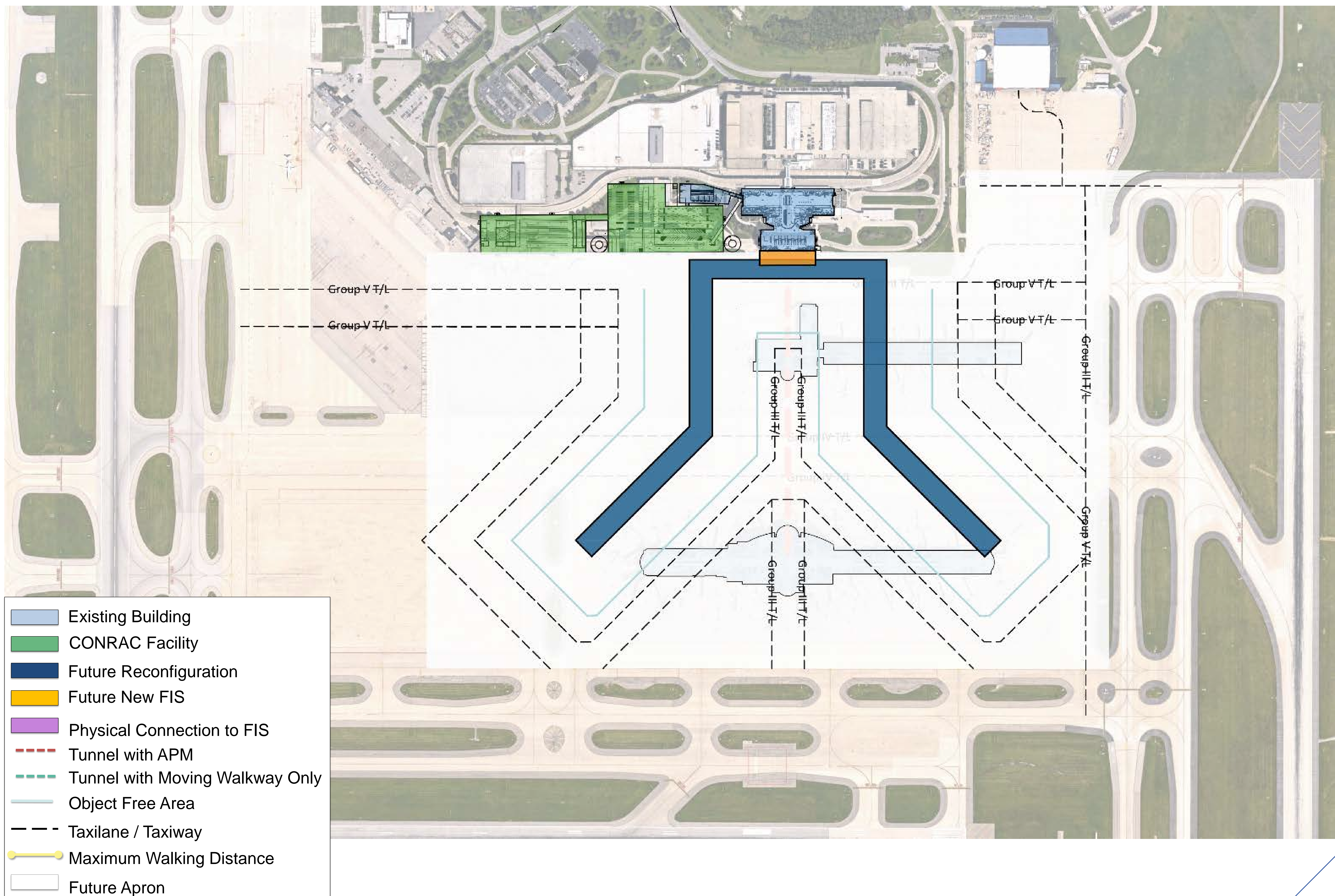
Family 2 - Concept 2



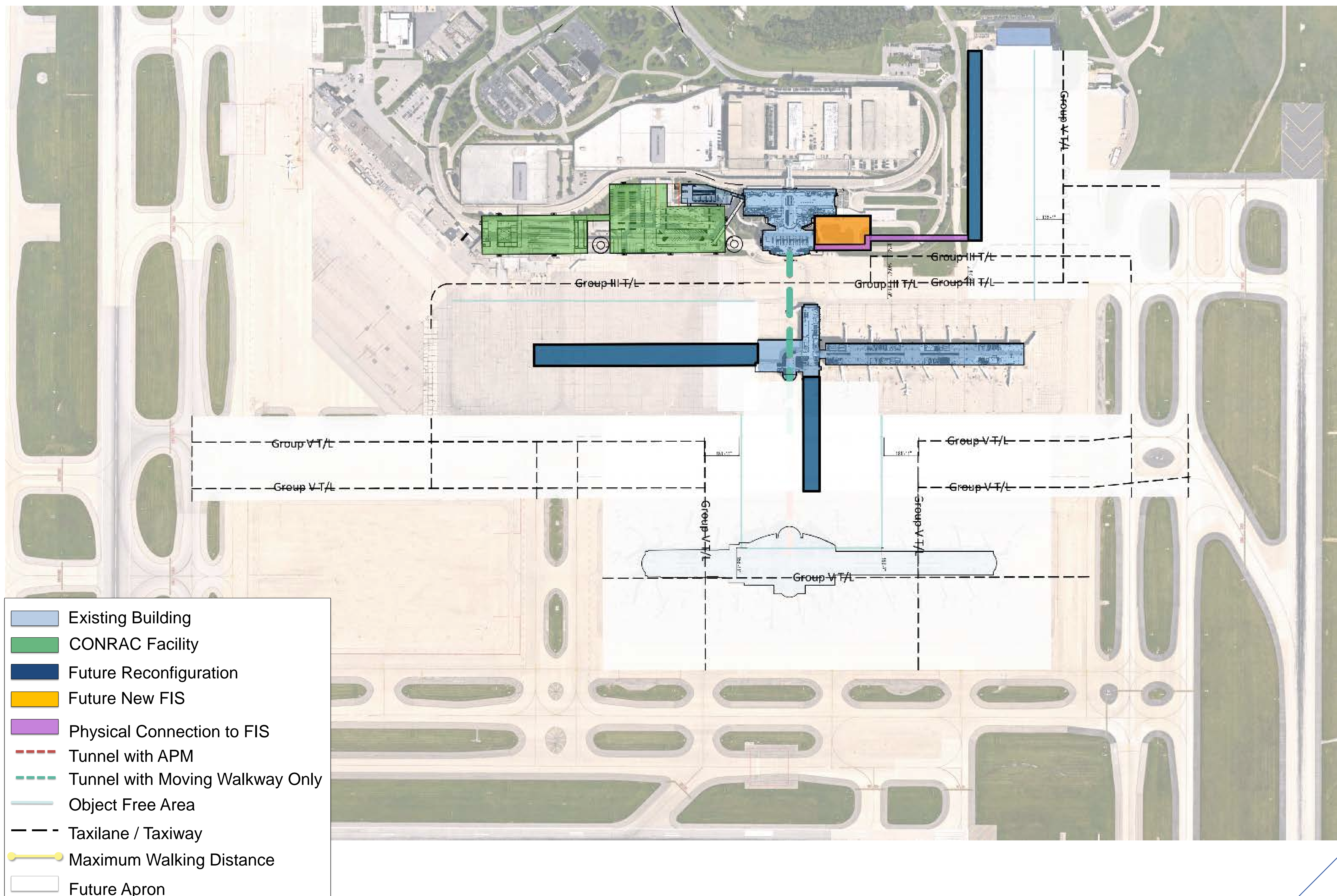
Family 2 - Concept 3



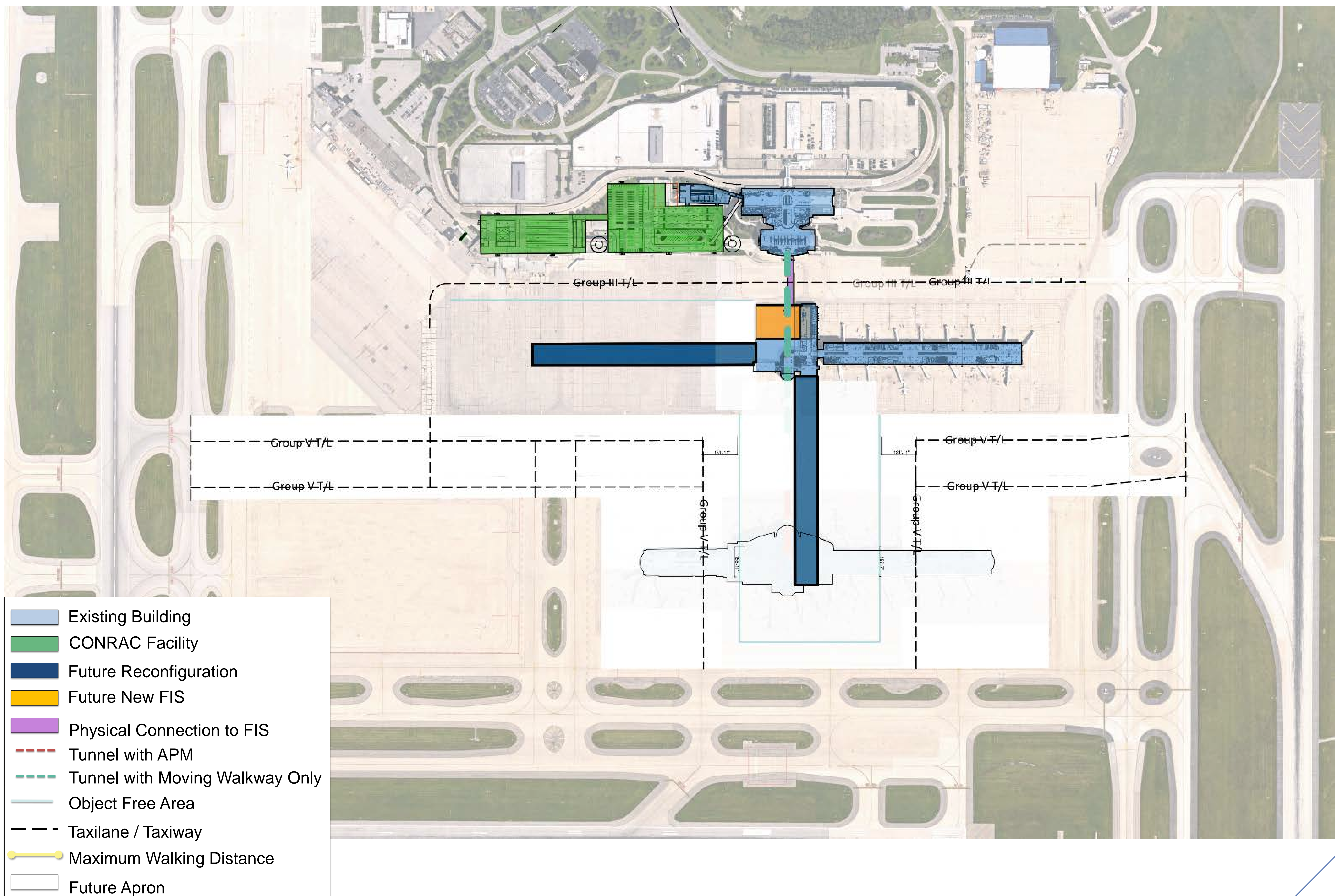
Family 2 - Concept 4



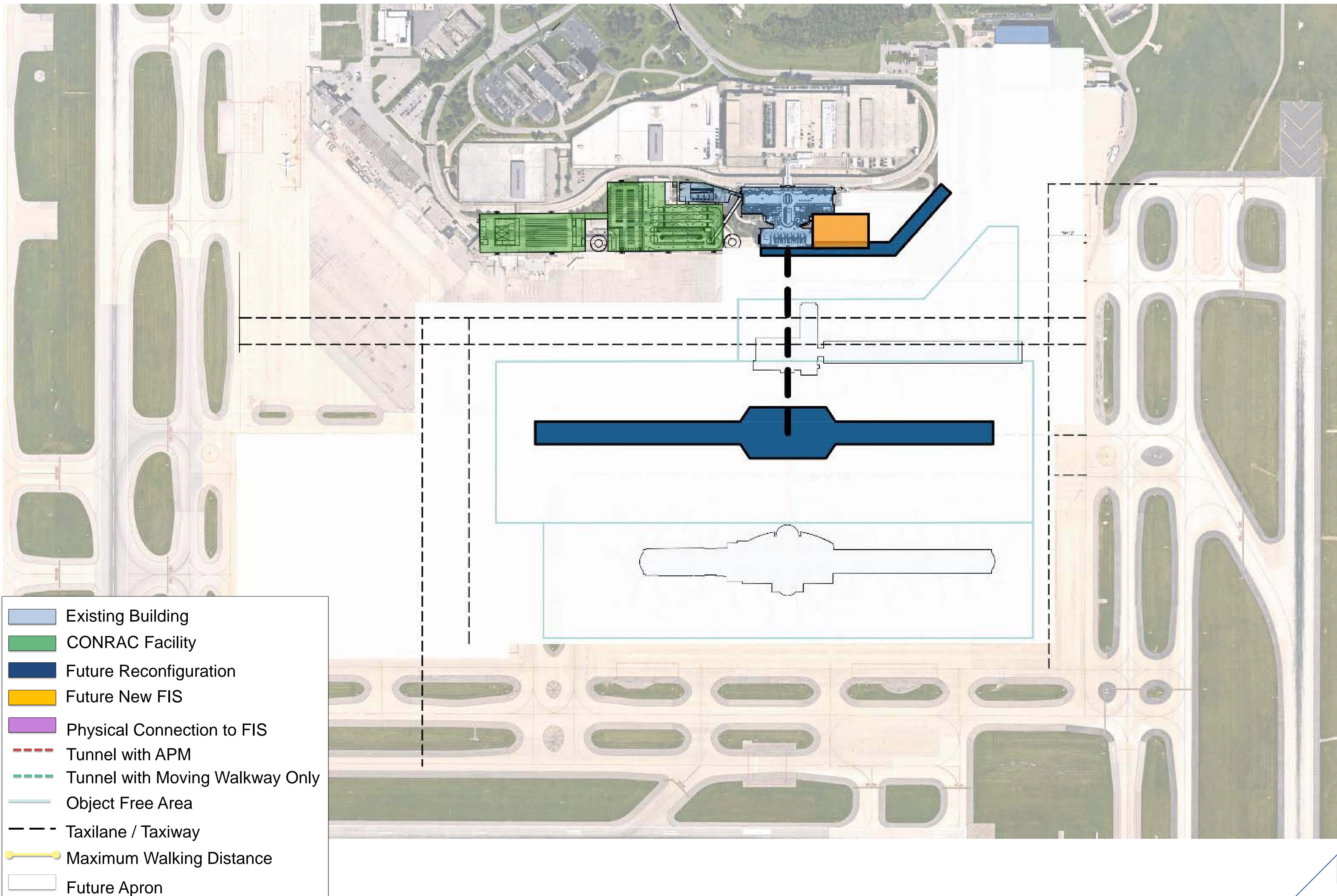
Family 3 - Concept 1



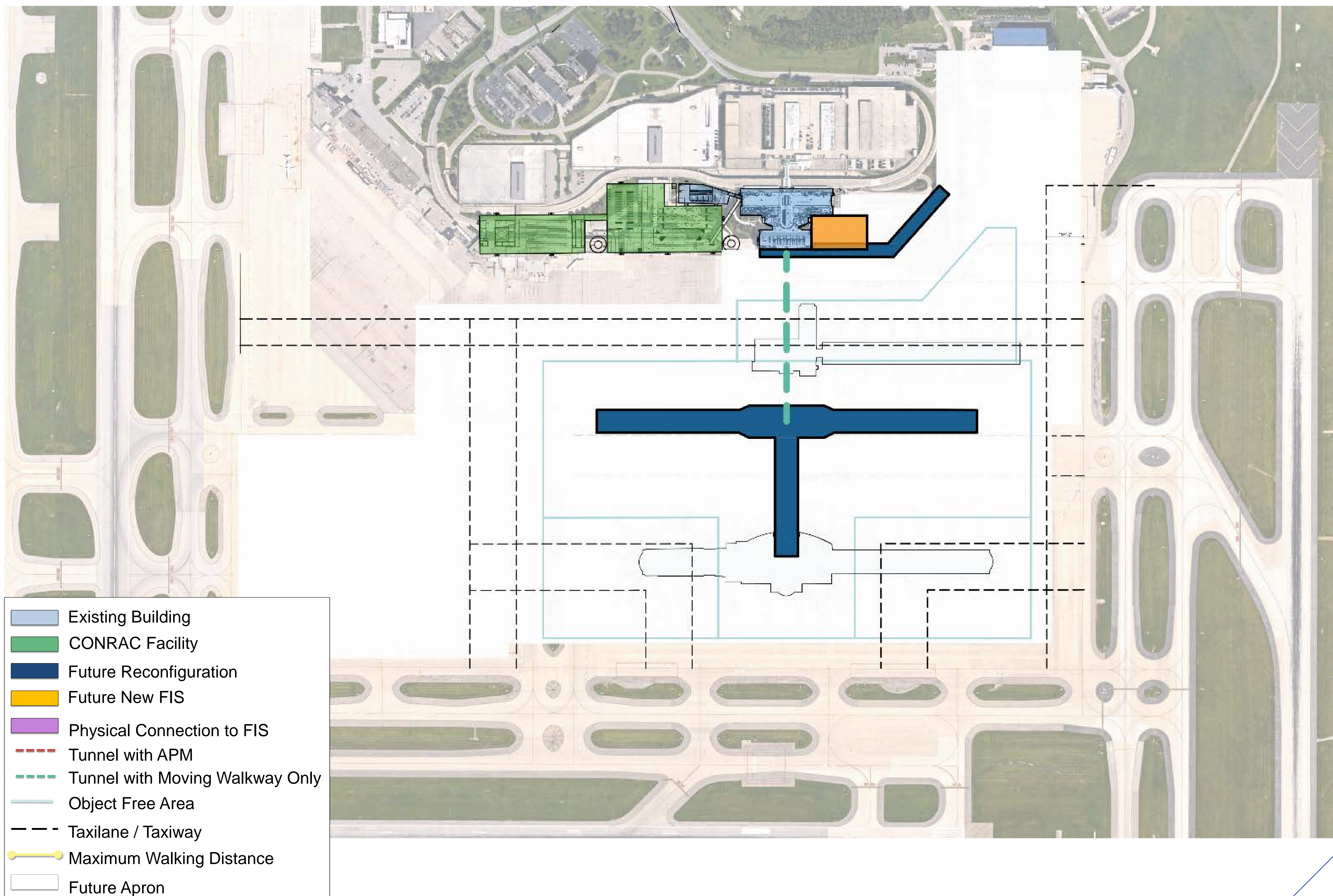
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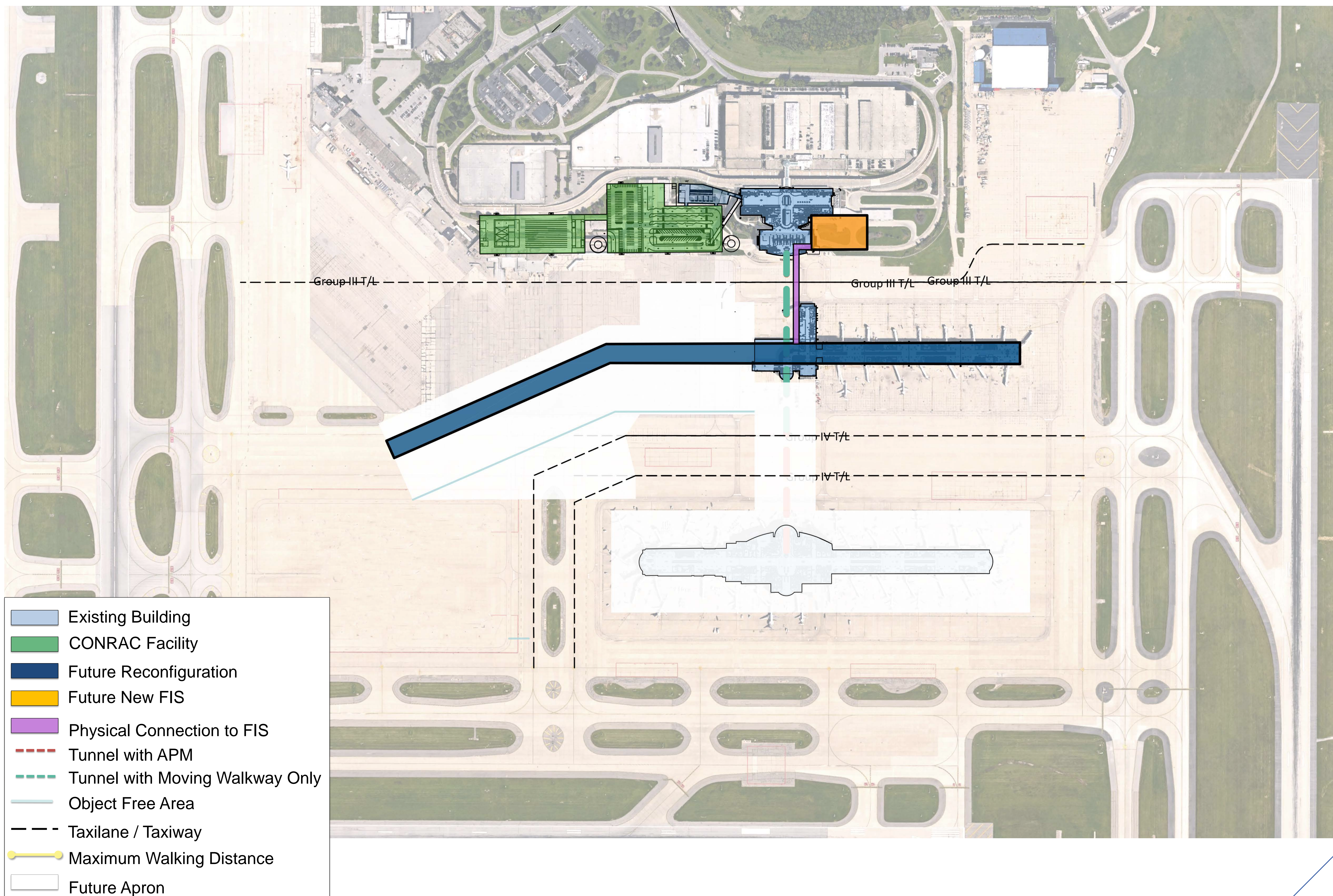
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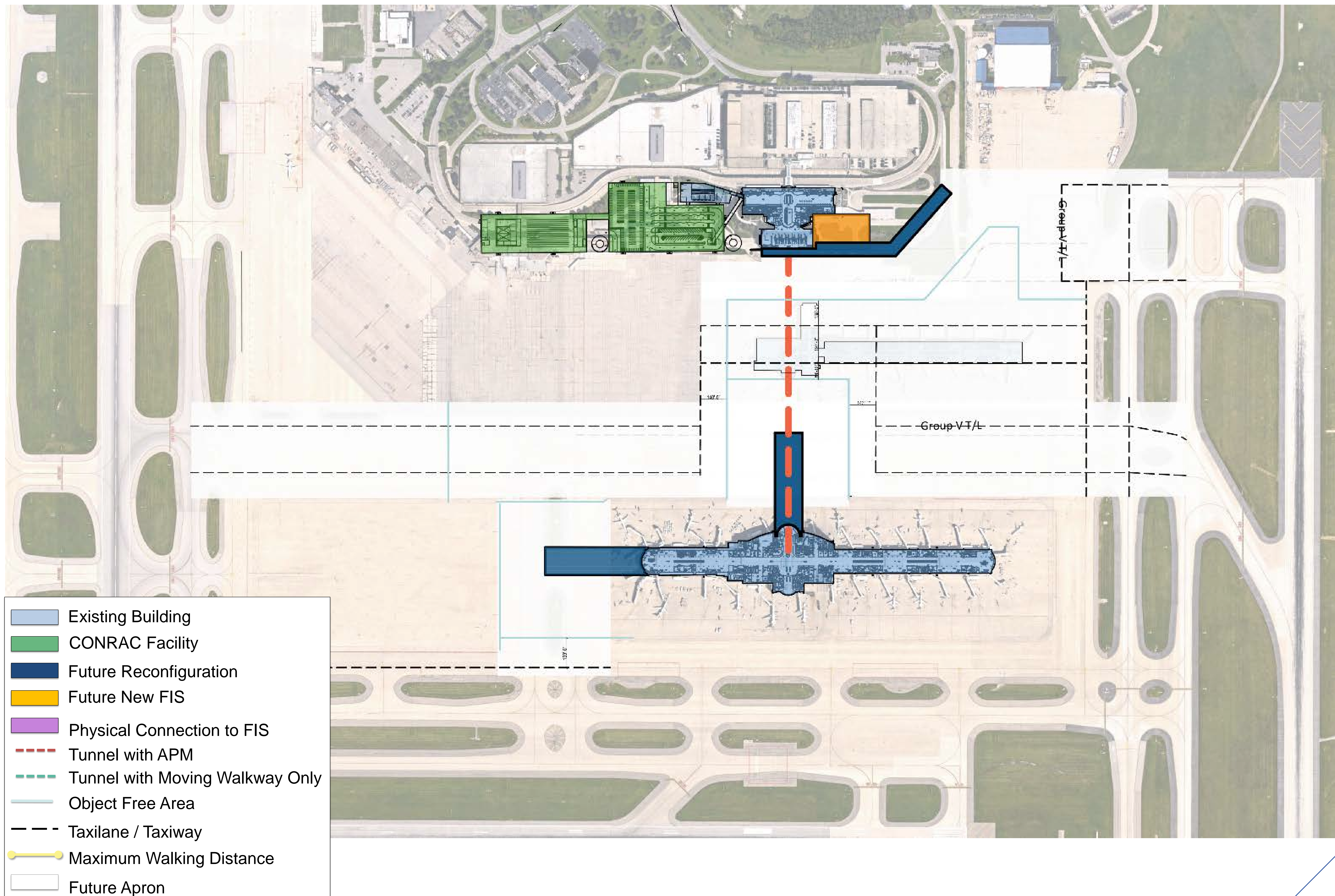
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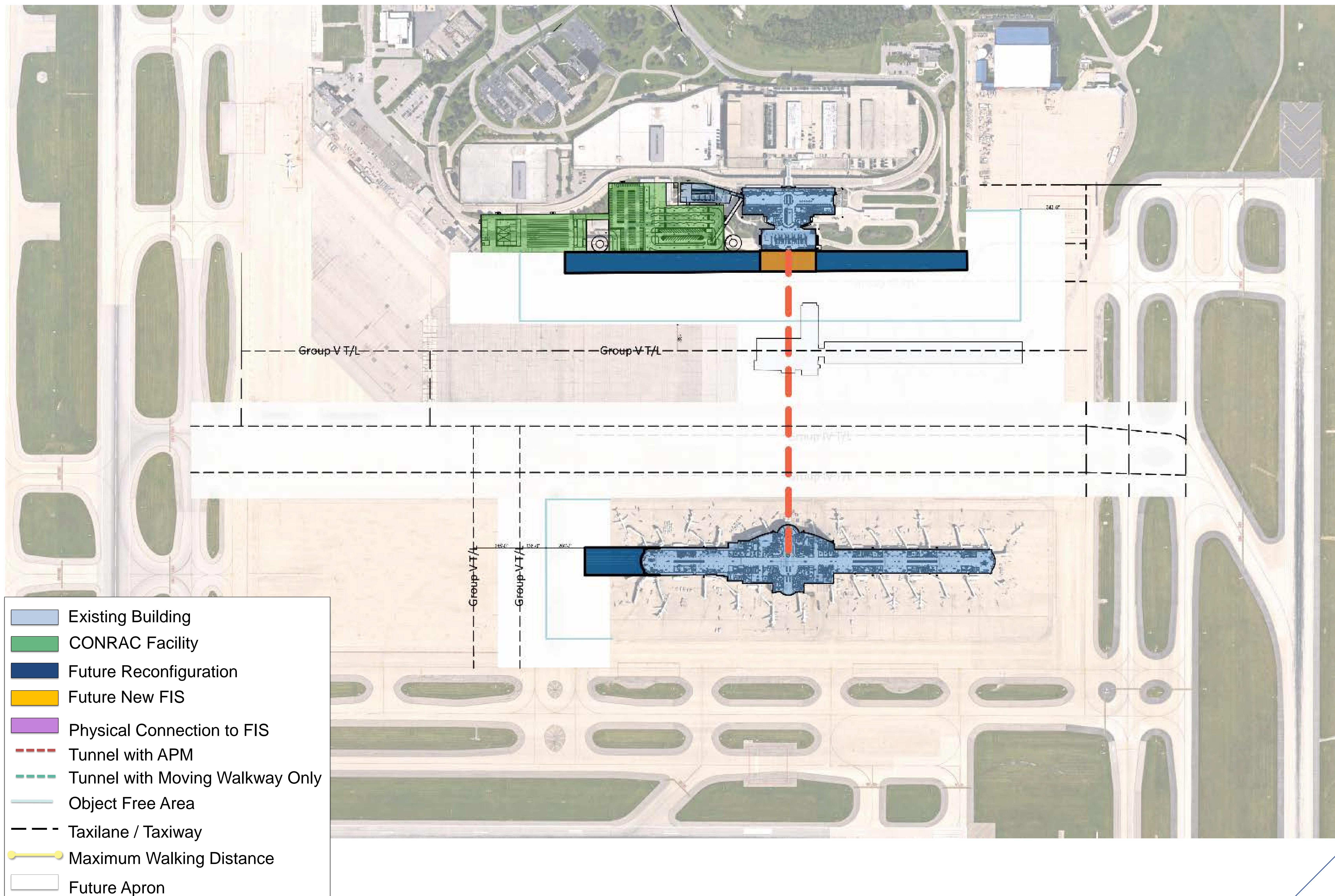
Family 3 - Concept 5



Family 4 - Concept 1



Family 4 - Concept 2



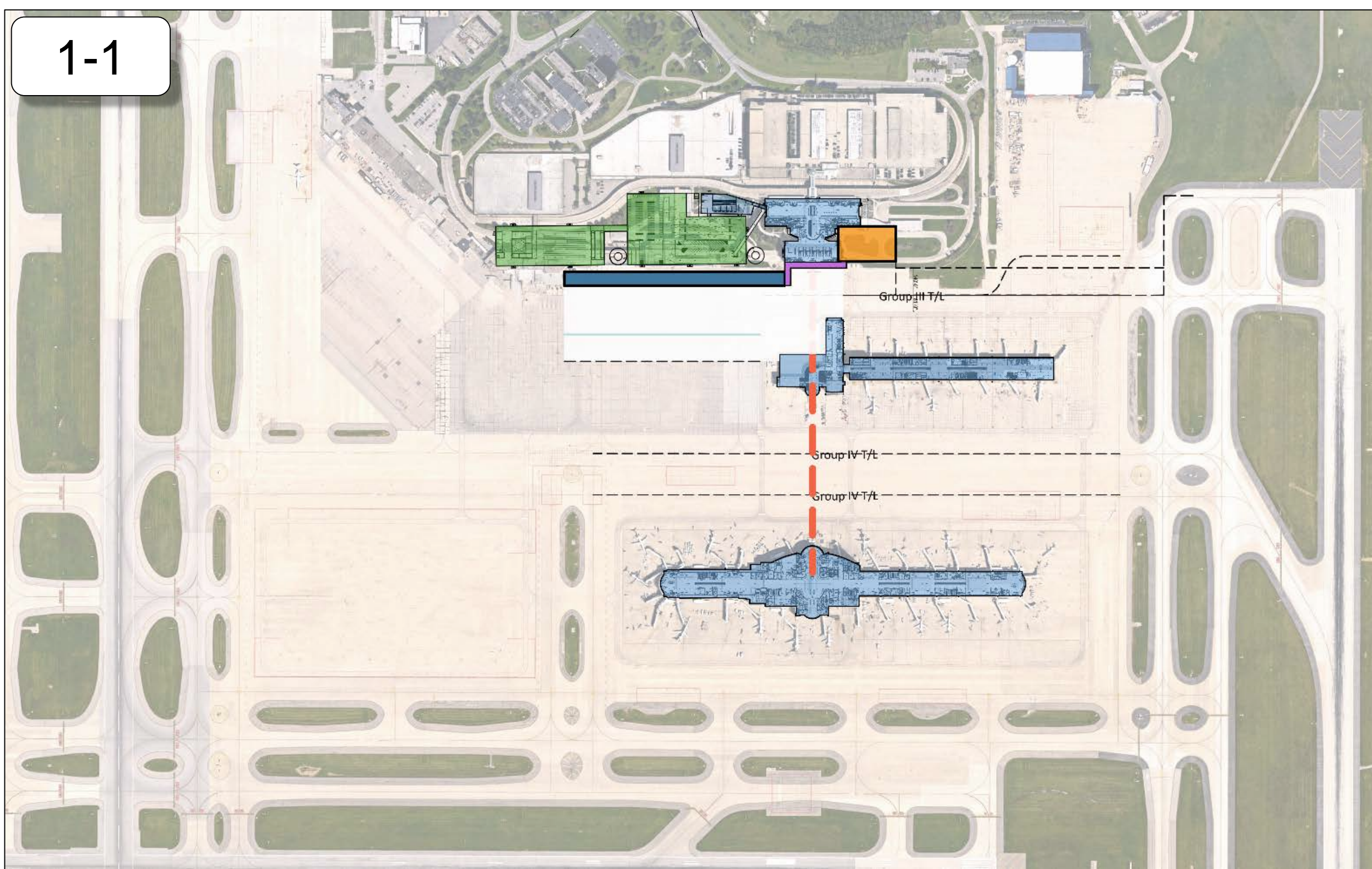
Evaluation Criteria

Evaluation Criteria Descriptions

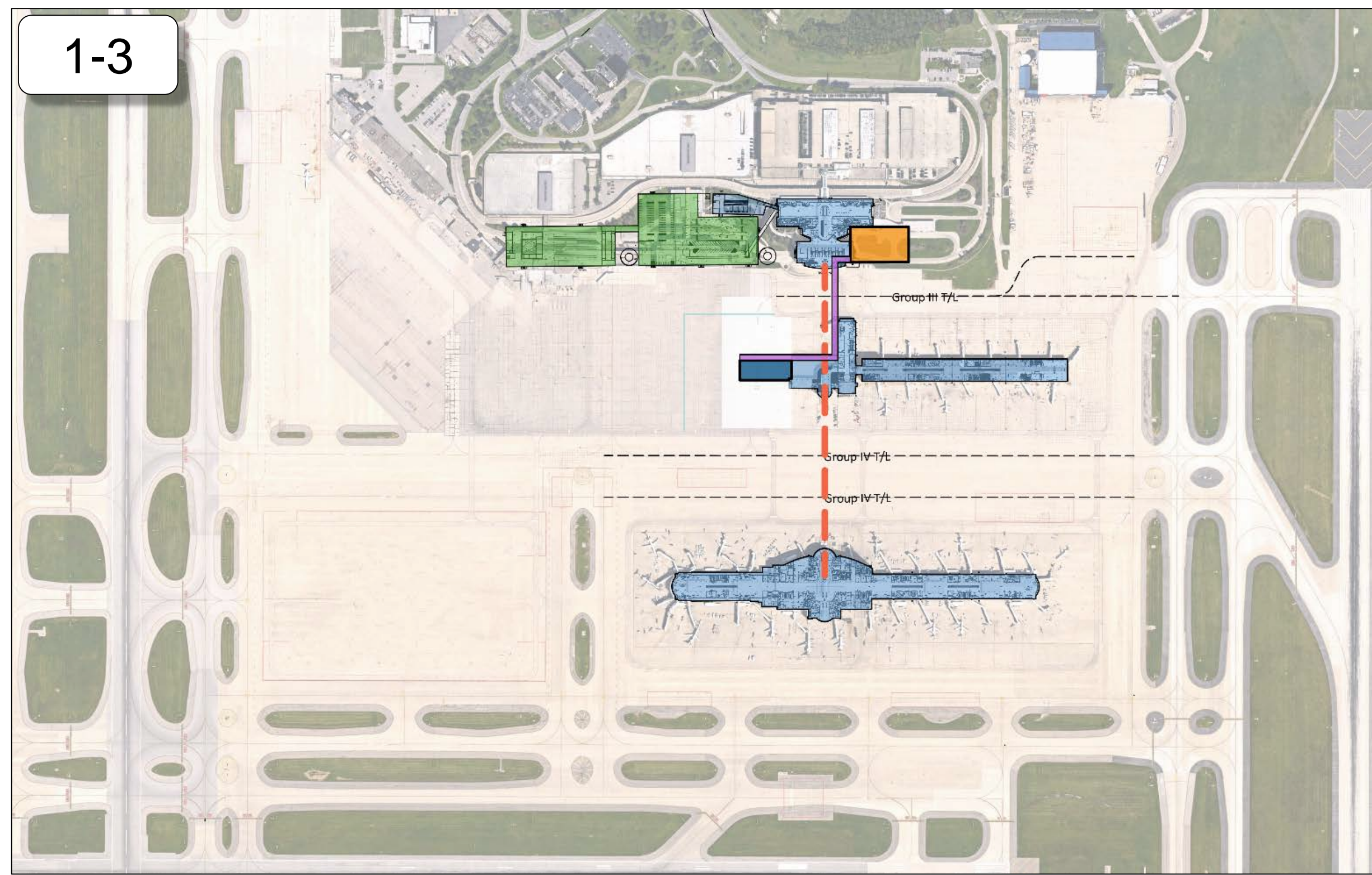
AIRSIDE		
A	Airside Circulation / Operations	Does the configuration of the concourse(s) maintain or improve the taxiing of aircraft from east to west without creating significant numbers of gates that have independent pushback operations?
TERMINAL		
B	Passenger Journey	The configuration of the concourse(s) minimizes the number of level changes and the potential unassisted walking distance required for passengers to flow from the main terminal to their gate and from their gate to the main terminal.
C	APM Needed	Does the concourse configuration eliminate the need for an APM (train/people-mover)?
D	Baggage Operations	Does the concourse configuration allow for the implementation of a simplified baggage handling system with consolidated baggage screening?
E	International Passenger Arrivals	Does the concourse configuration allow for international arriving passengers to exit the Customs and Border Protection facility directly to the landside without having to be rescreened?
F	Future Flexibility	Does the concourse configuration support both future hubbing operations and flexibility O&D operations and airline gate allocations?
IMPLEMENTATION		
G	Impact to Existing Facilities	Does the concourse configuration limit the impact to existing non-passenger related structures.
H	Infrastructure Re-Use	Does the concourse configuration reduce the need to construct new facilities by providing the ability to re-use existing concourse/gate infrastructure?
I	Phasing	Is it feasible to phase the construction of the concourse configuration in a way that limits the impacts to existing gate operations and does not require the construction of temporary gates?
J	Project "Off-Ramps"	Allows for incremental facility expansion that provides for flexibility in modifying the plan at project milestones. The ultimate configuration is able to be modified over time to adjust to changing conditions at the airport.

Initial Concepts Carried Forward

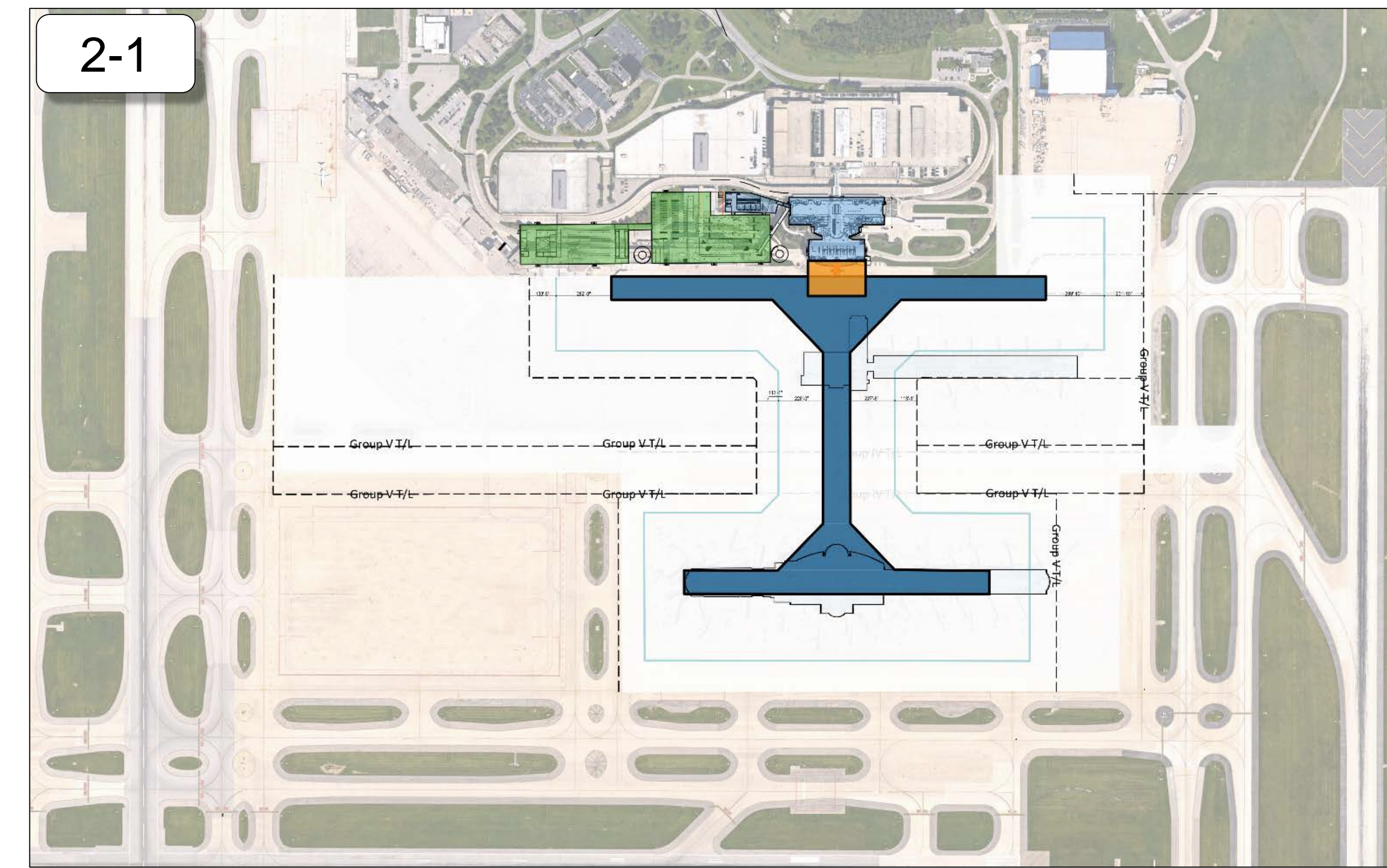
1-1



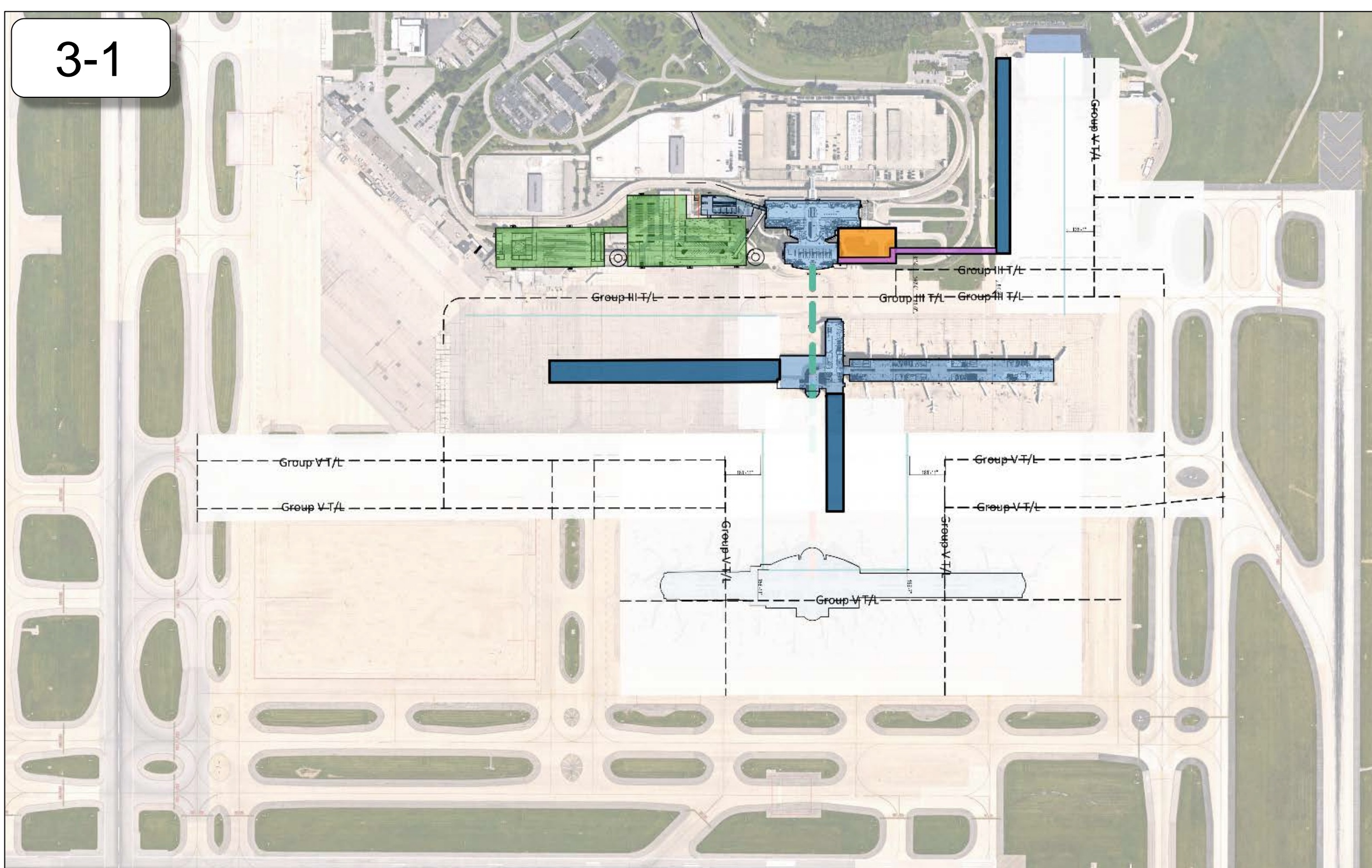
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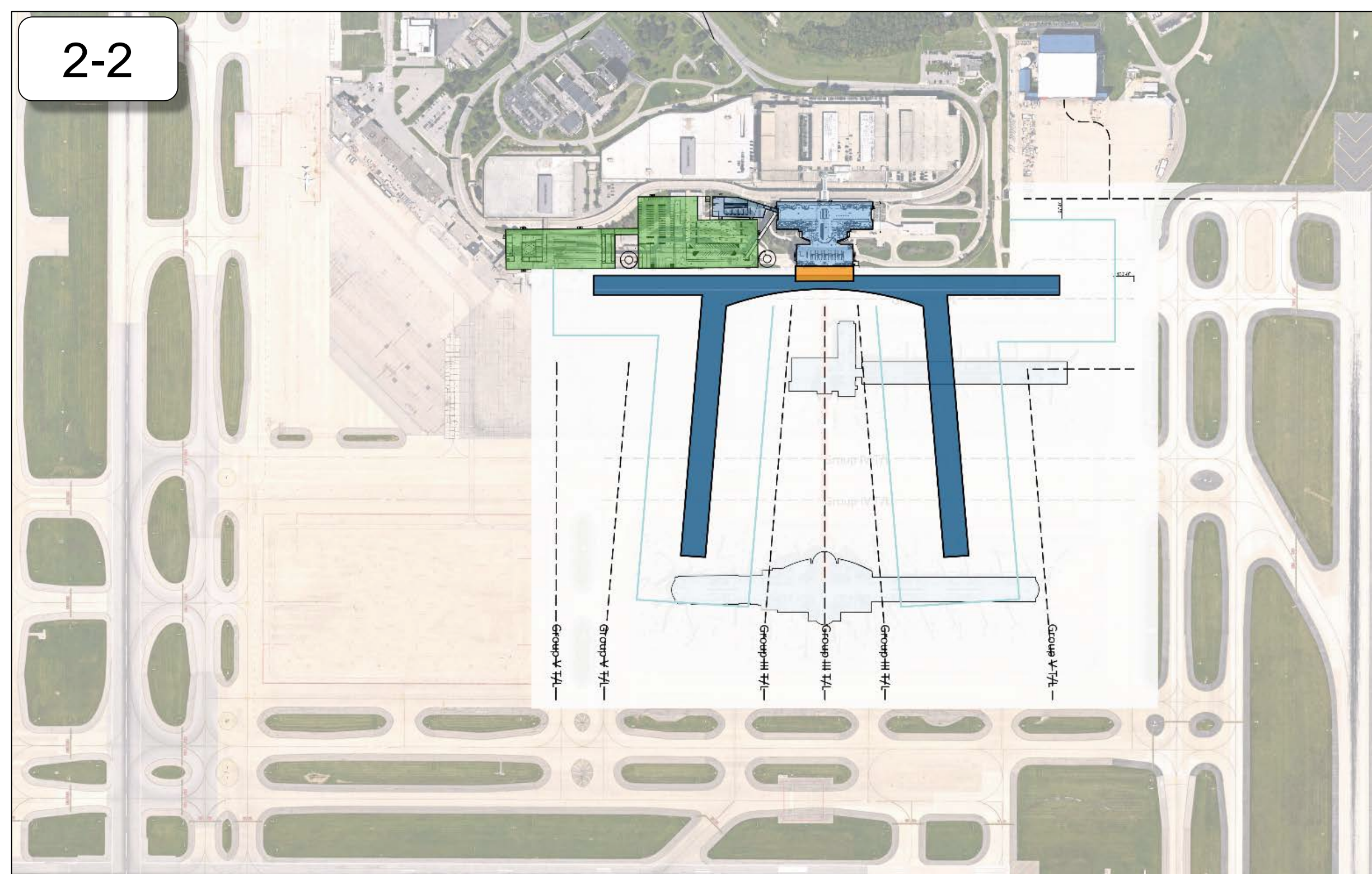
2-1



3-1



2-2



4-2

