

SUSTAINABLE AIRPORT MASTER PLAN (SAMP) UPDATE

International Boulevard Business Operators
& Transportation Review Committee

May 4, 2018

Briefing Overview

- Planning Status Update
- Long-Term Vision
- Near-Term Projects
- Next Steps
- 2nd Terminal/Roadways Concepts
 - Alternative 1: Curbs on West Side of Terminal
 - Alternative 2: Elevated Terminal Over Curbs
 - Alternative 3: Curbs on East Side of Terminal
 - All concepts require additional study to determine/evaluate factors such as feasibility, cost, and operational efficiency

Planning Status Update

Planning components

- ☒ Market Demand (*approved by FAA*)
- ☒ Facility requirements
- ☒ Public participation (*1st round of open houses*)
- ☒ Alternatives development & evaluation
- ☒ Public participation (*2nd round of open houses*)
- ☒ Implementation plan
- ☐ Public participation (*open house planned for May 30*)
- ☐ Final planning documentation
- ☐ Airport Layout Plan (*requires FAA approval*)

Planning Status Update

Airside Modeling

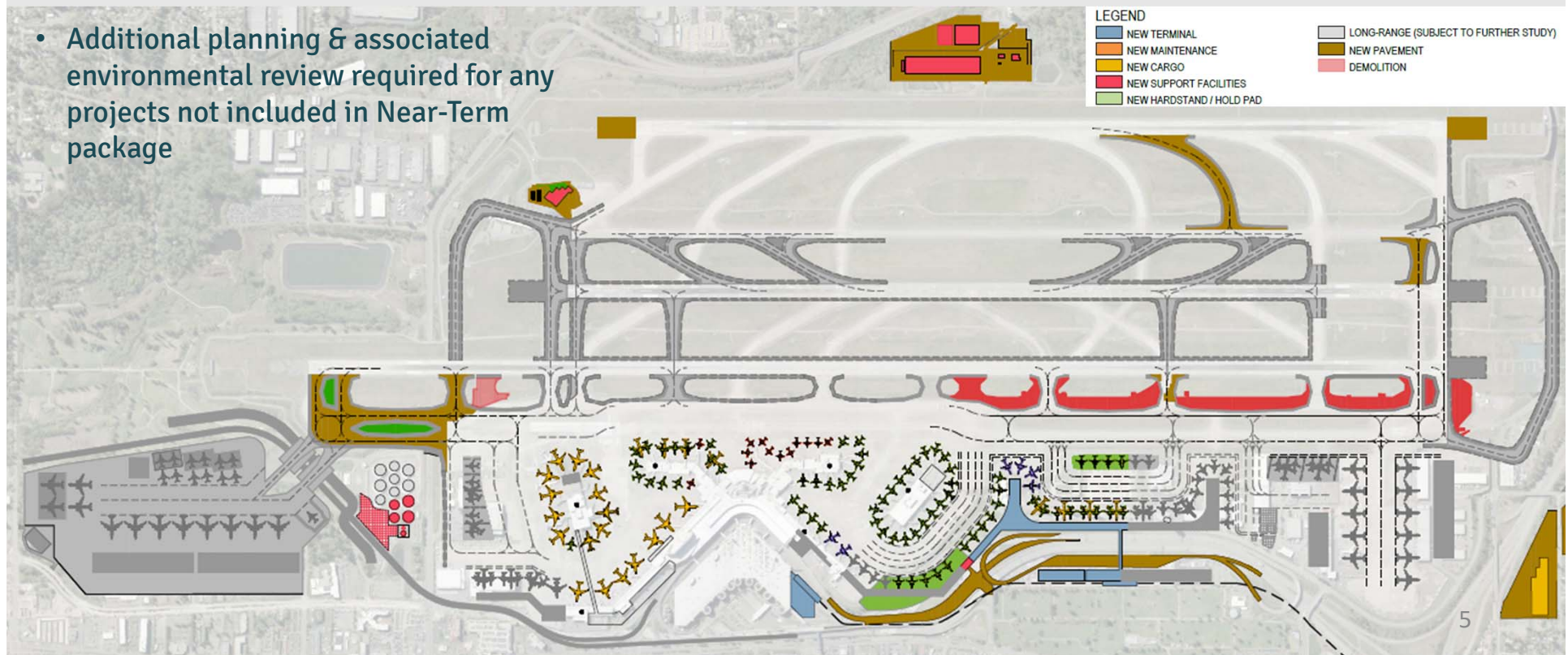
- Airfield/airspace constraints result in major congestion (aircraft delays) as activity nears 59 million passengers (2029)
- Phased approach required to advance SAMP
 - Identify projects to accommodate near-term demand within existing constraints – *Near-Term projects*
 - Conduct environmental review of Near-Term projects
 - Recommend follow-on planning study to address airfield/airspace constraints
- Near-Term projects
 - Near-Term projects can accommodate 2027 market demand
 - Approximates 56 million annual passengers

Long-Term Vision - *phased approach*

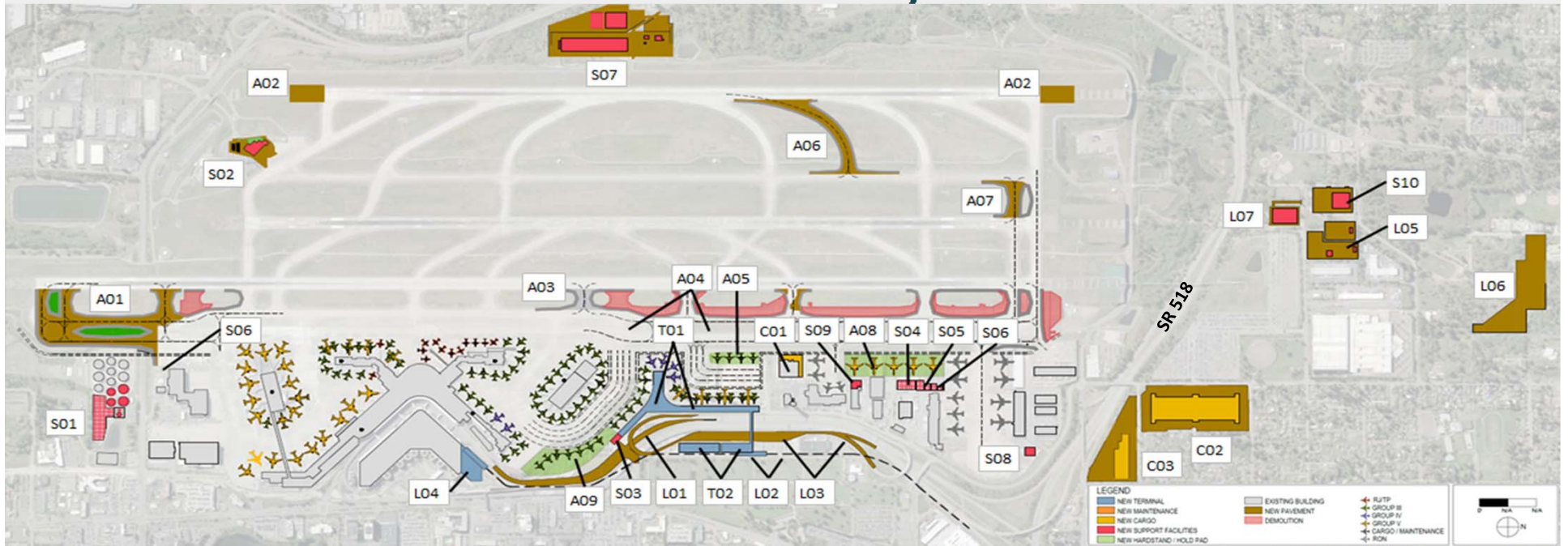
Near-Term projects - *56 million annual passengers by 2027*

Long-Term vision - *Additional planning to meet demand beyond 2027*

- Additional planning & associated environmental review required for any projects not included in Near-Term package



Near-Term Projects



Airside

- A01 Taxiway A/B Extension
- A02 Runway 16R-34L Blast Pads
- A03 Taxiway L Relocation (Pre-SAMP project) *
- A04 Taxiway B 500' Separation & RIM Mitigation
- A05 North Hold Pad
- A06 Runway 34L Highspeed Exit
- A07 Taxiway D Extension
- A08 Hardstand (north)
- A09 Hardstand (central)

* Project currently under construction

Terminal

- T01 North Gates
- T02 Second Terminal & Parking

Cargo

- C01 Cargo 4 South Redevelopment
- C02 Off-site Cargo Ph 1 (L-Shape)
- C03 Off-site Cargo Ph 2 (L-Shape)

Landside

- L01 NAE Relocation (southbound lanes)
- L02 Elevated Busway & Stations
- L03 Second Terminal Roads/Curbside
- L04 Main Terminal North GT Lot
- L05 North GT Holding Lot
- L06 Employee Parking Surface Lot
- L07 Employee Parking Structure

Airport/Airline Support

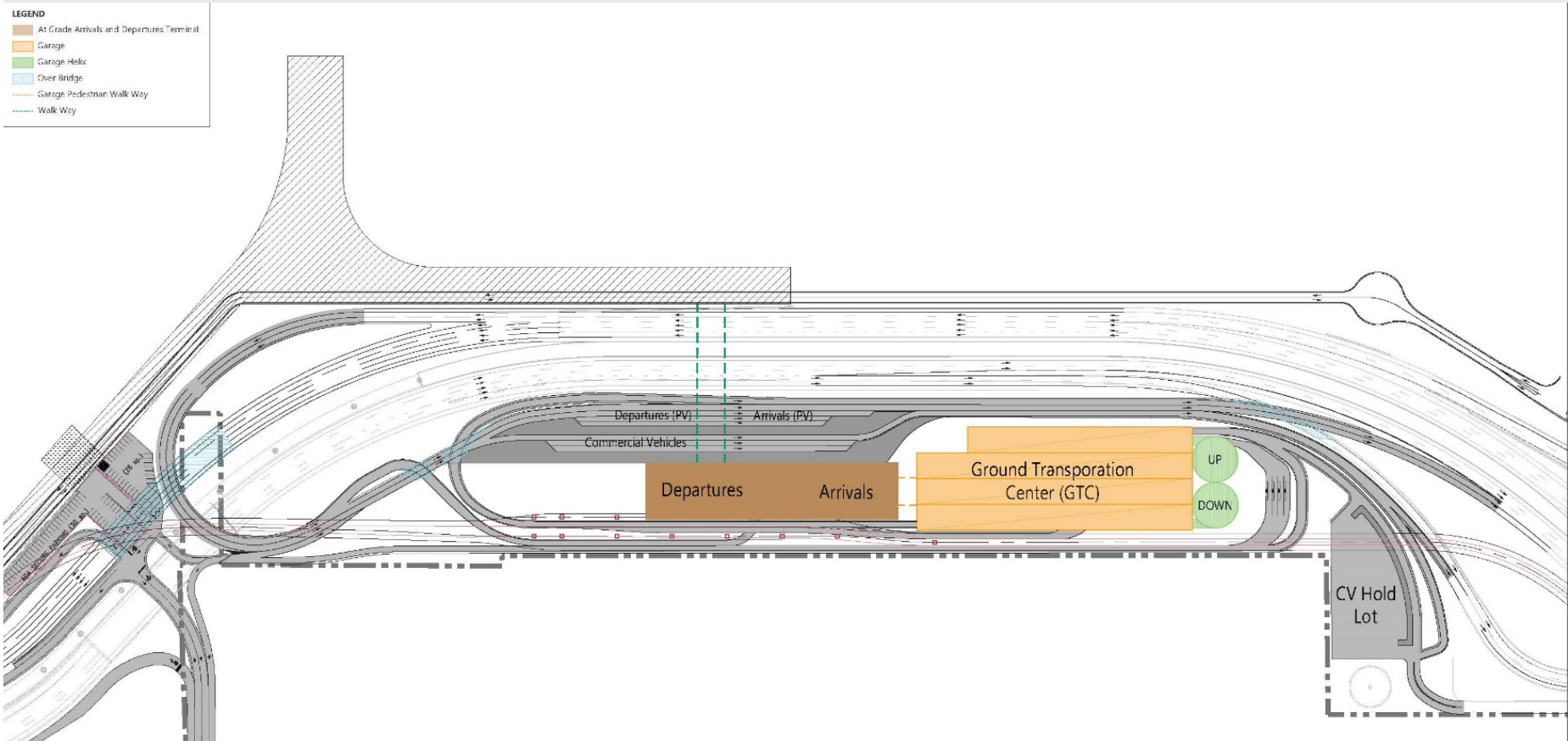
- S01 Fuel Farm Expansion
- S02 Primary ARFF
- S03 Secondary ARFF
- S04 Fuel Rack Relocation
- S05 Triculator
- S06 Consolidated De-icing Tanks
- S07 Westside Maintenance Campus
- S08 Airline Support (north)
- S09 Airline Support (west)
- S10 Centralized Rec. & Dist. Center

Next Steps

- Q2 - Finalize SAMP documentation with FAA
- Q2-Q4 - Complete planning work to support environmental review
- May 30 - Public open house
- Q2-Q3 - Agency and public scoping for environmental review

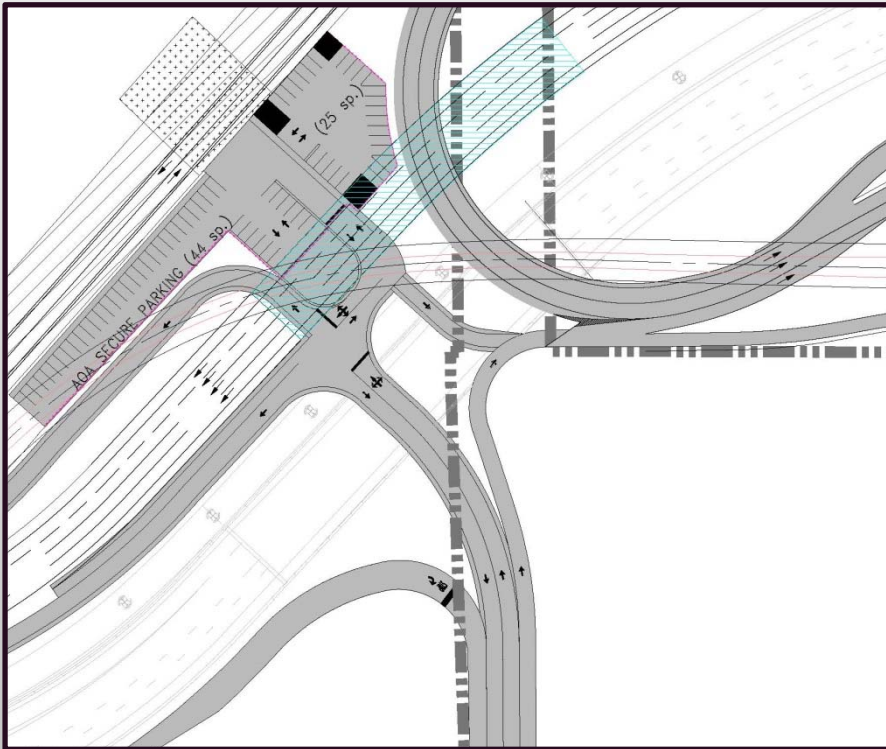
2nd Terminal/Roadway Concepts

Alternative 1: Curbs on West Side of Terminal (at grade - level 0)

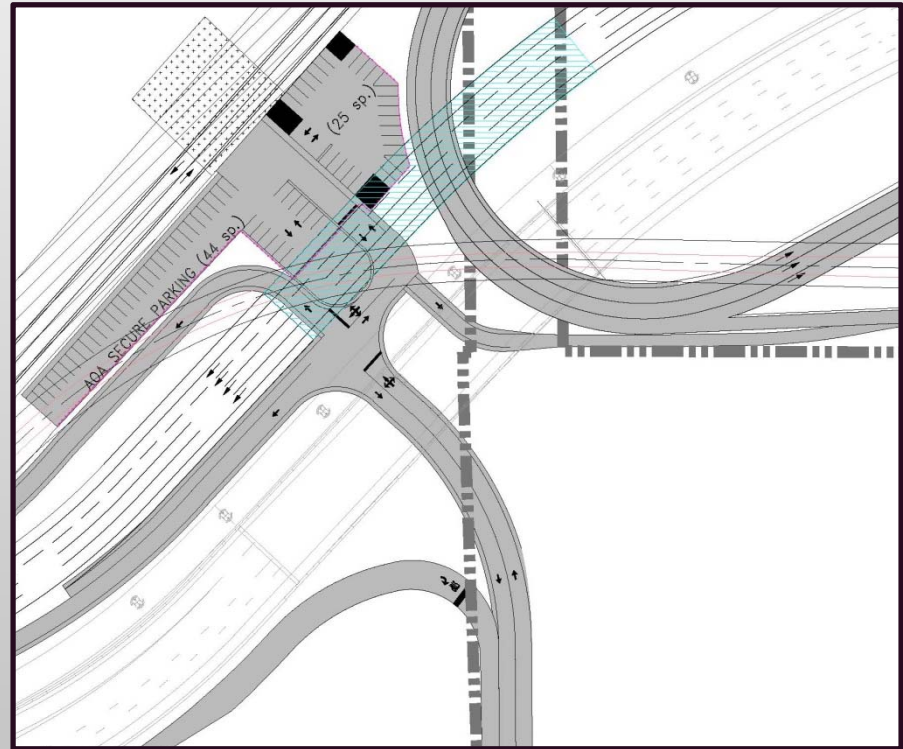


2nd Terminal/Roadway Concepts

S 170th St Access Alternatives



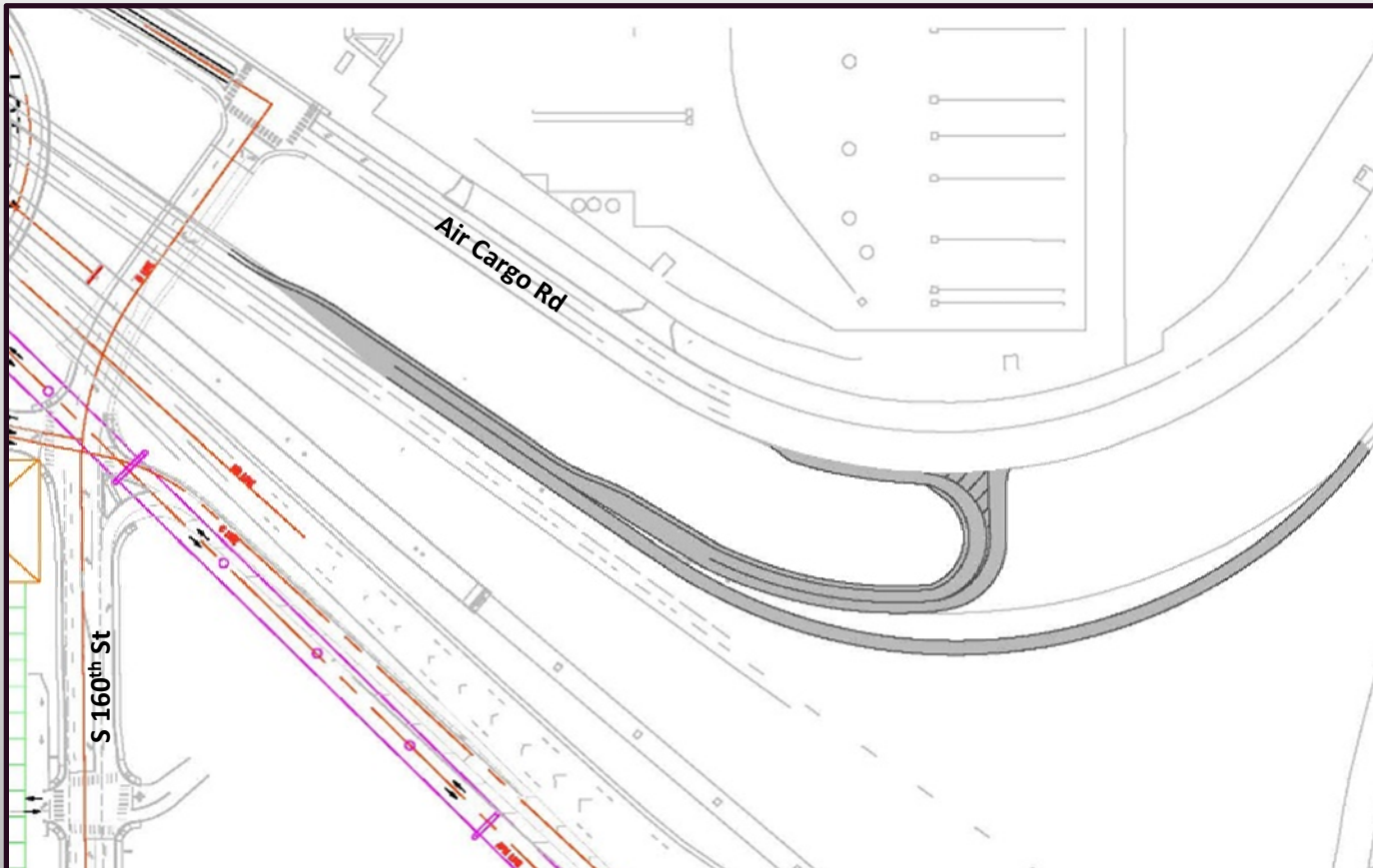
With Access to T2 Terminal



Without Access to T2 Terminal

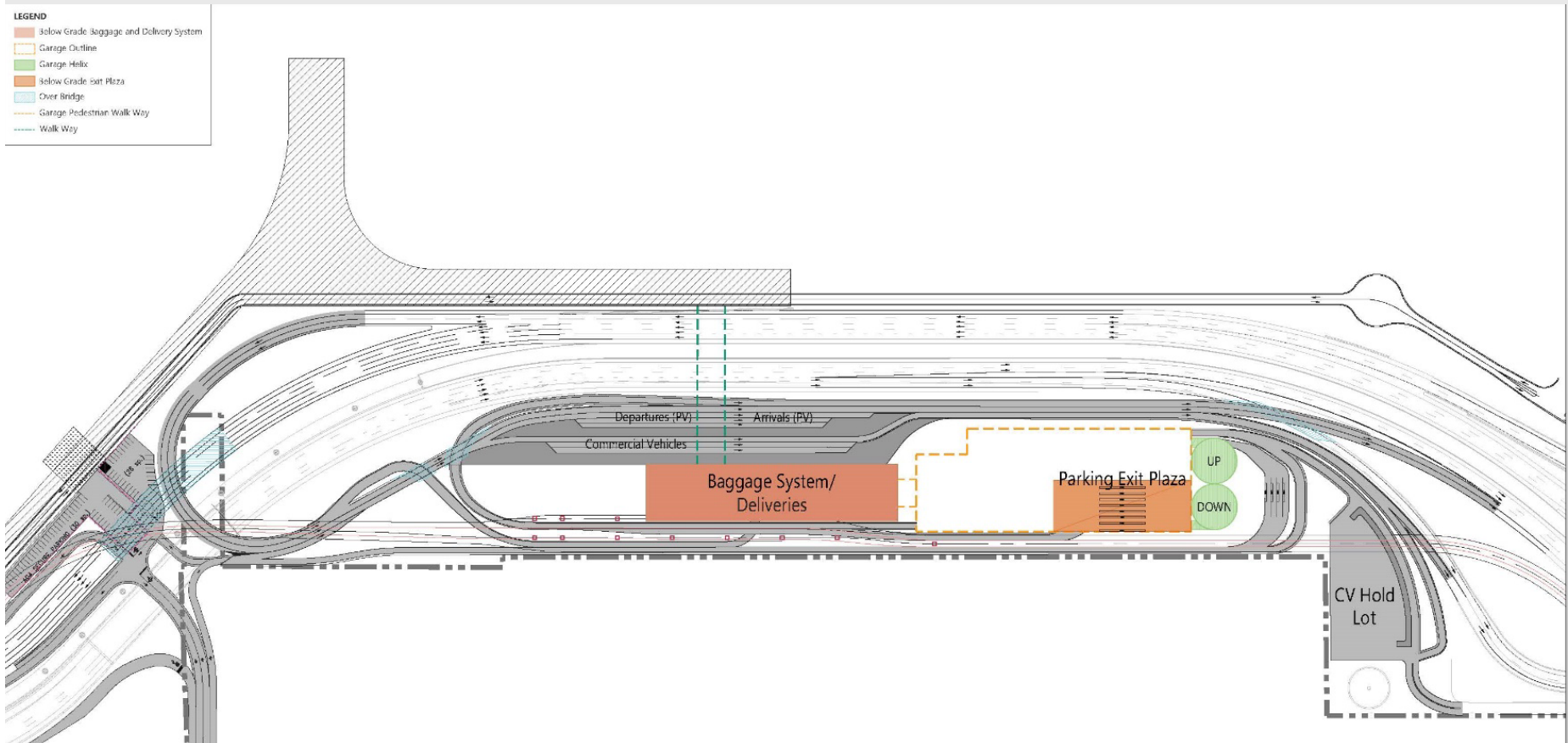
2nd Terminal/Roadway Concepts

S 160th St / Air Cargo Road Access Alternative



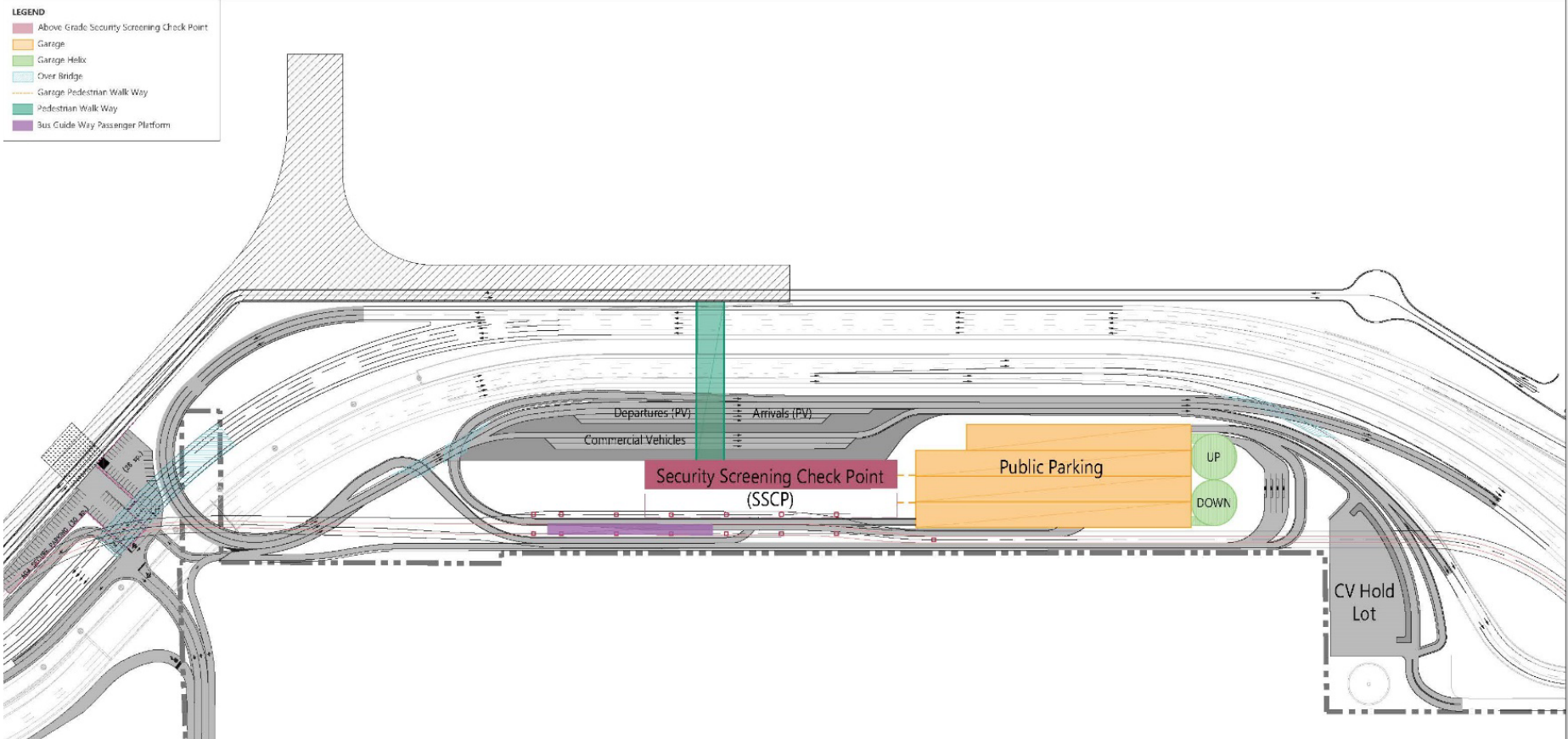
2nd Terminal/Roadway Concepts

Alternative 1: Curbs on West Side of Terminal (below grade - level -1)



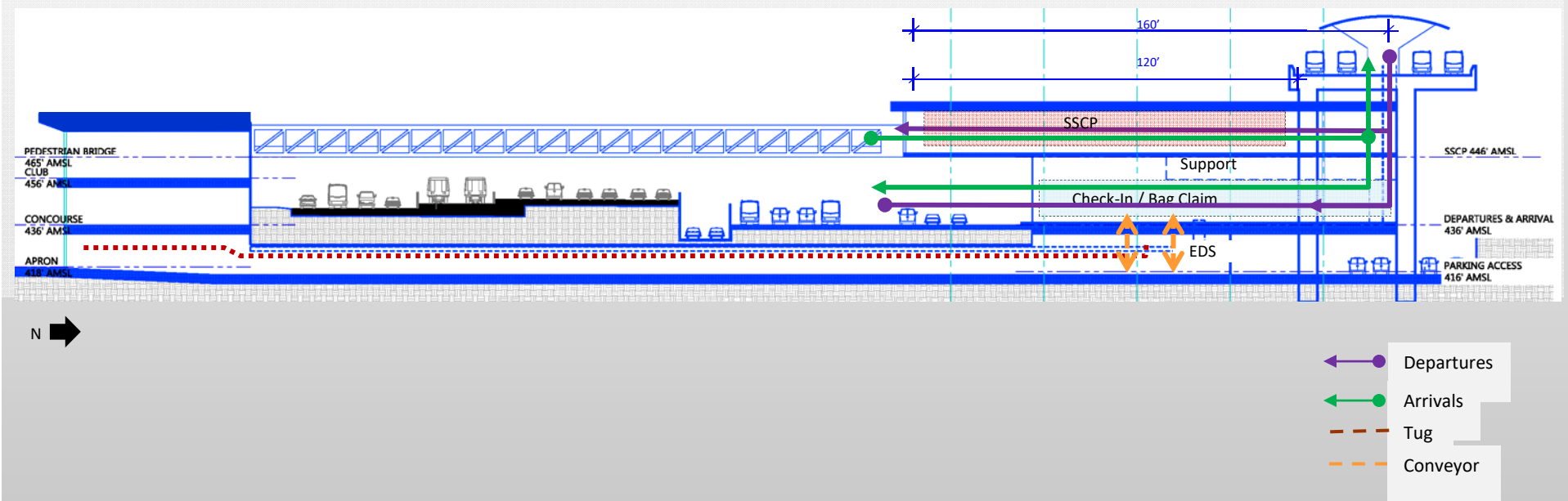
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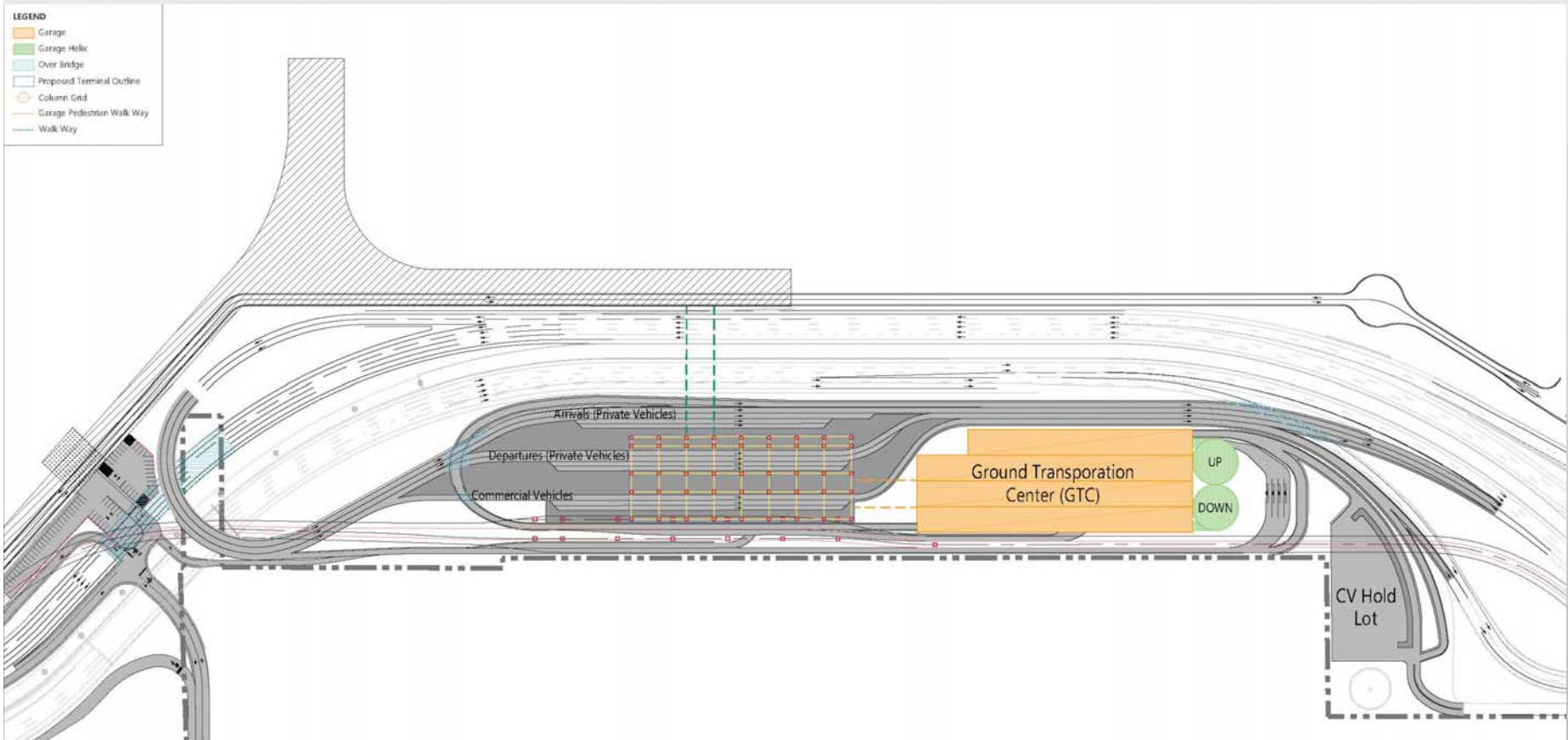
2nd Terminal/Roadway Concepts

Alternative 1: Curbs on West Side of Terminal (cross section / flow diagram)



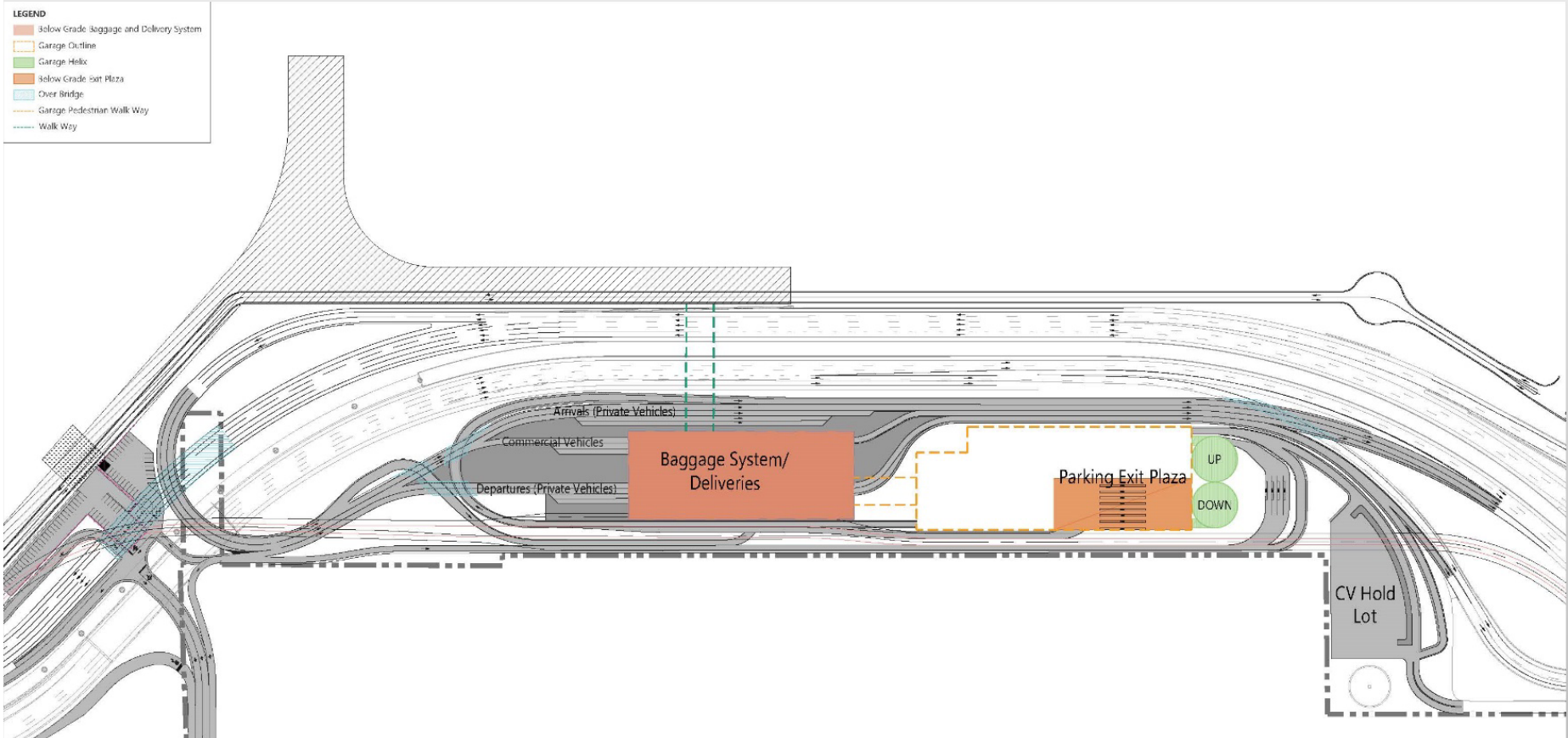
2nd Terminal/Roadway Concepts

Alternative 2: Elevated Terminal Over Curbs (at grade – level 0)



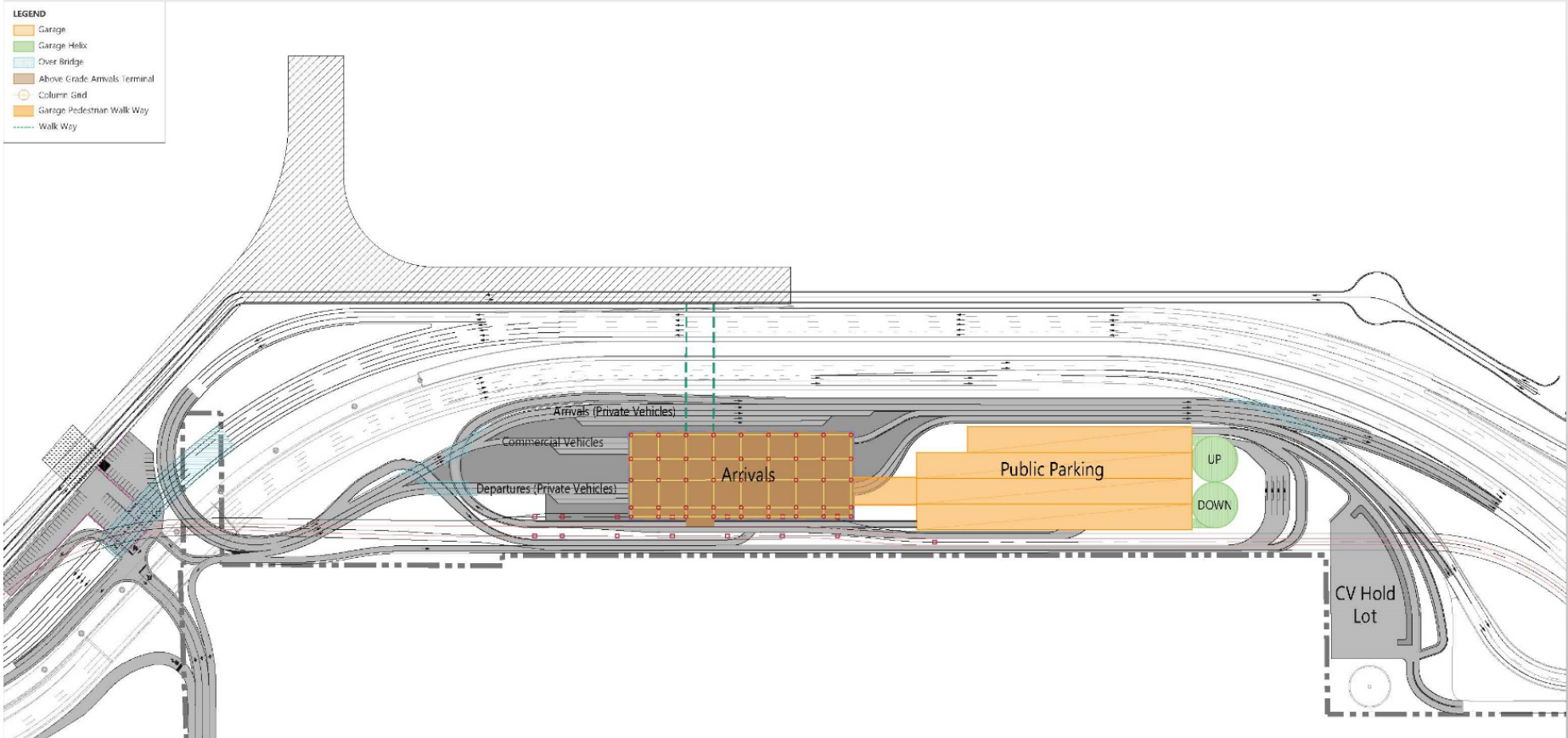
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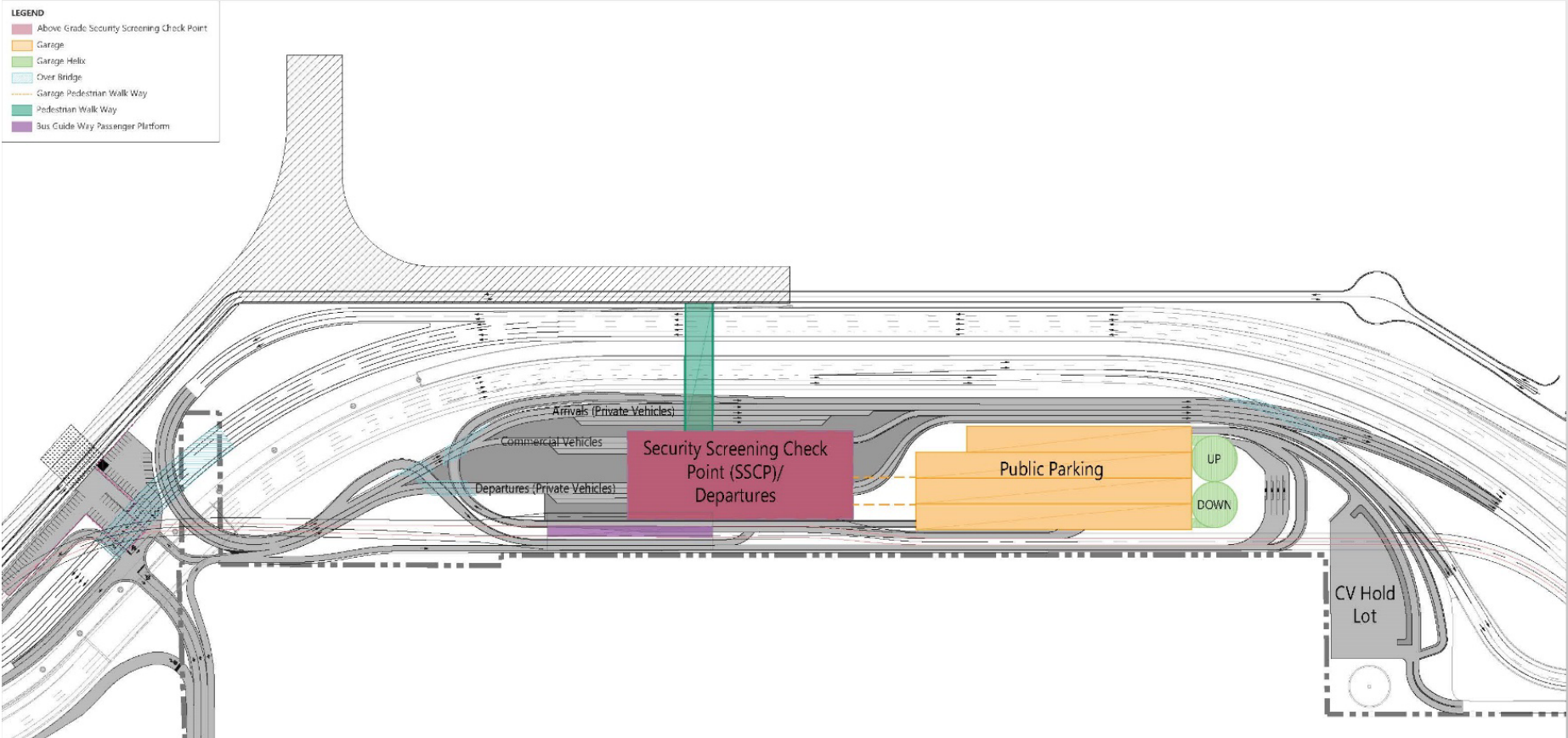
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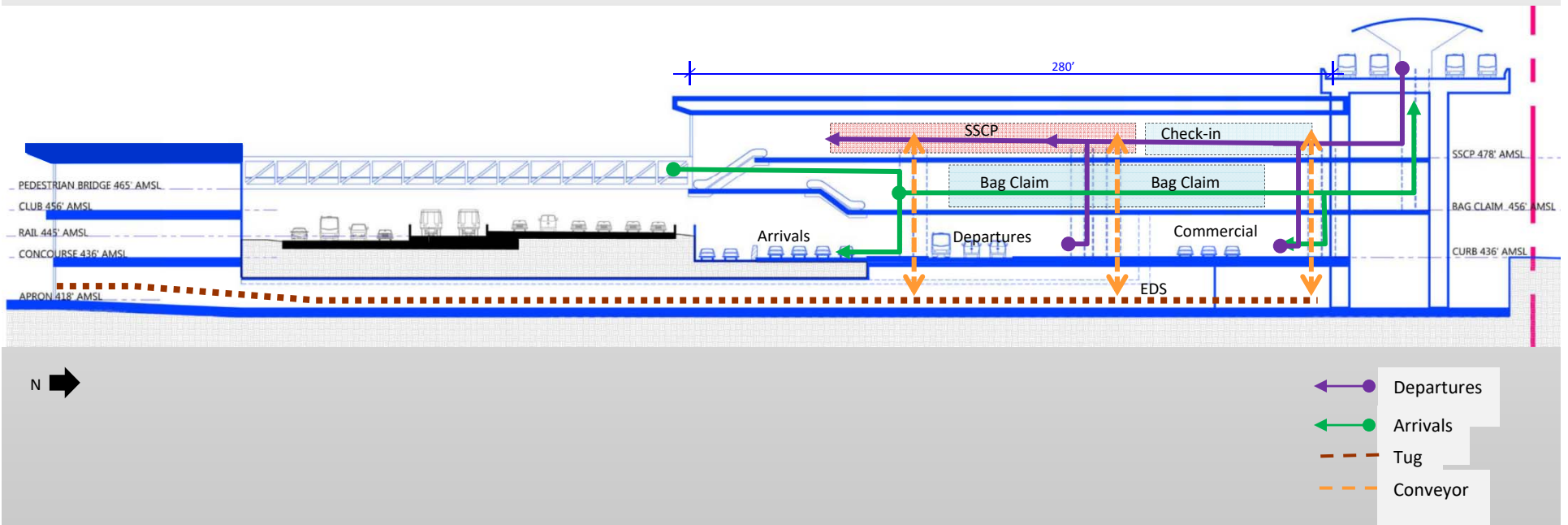
2nd Terminal/Roadway Concepts

Alternative 2: Elevated Terminal Over Curbs (above grade – level 2)



2nd Terminal/Roadway Concepts

Alternative 2: Elevated Terminal Over Curbs (cross section / flow diagram)



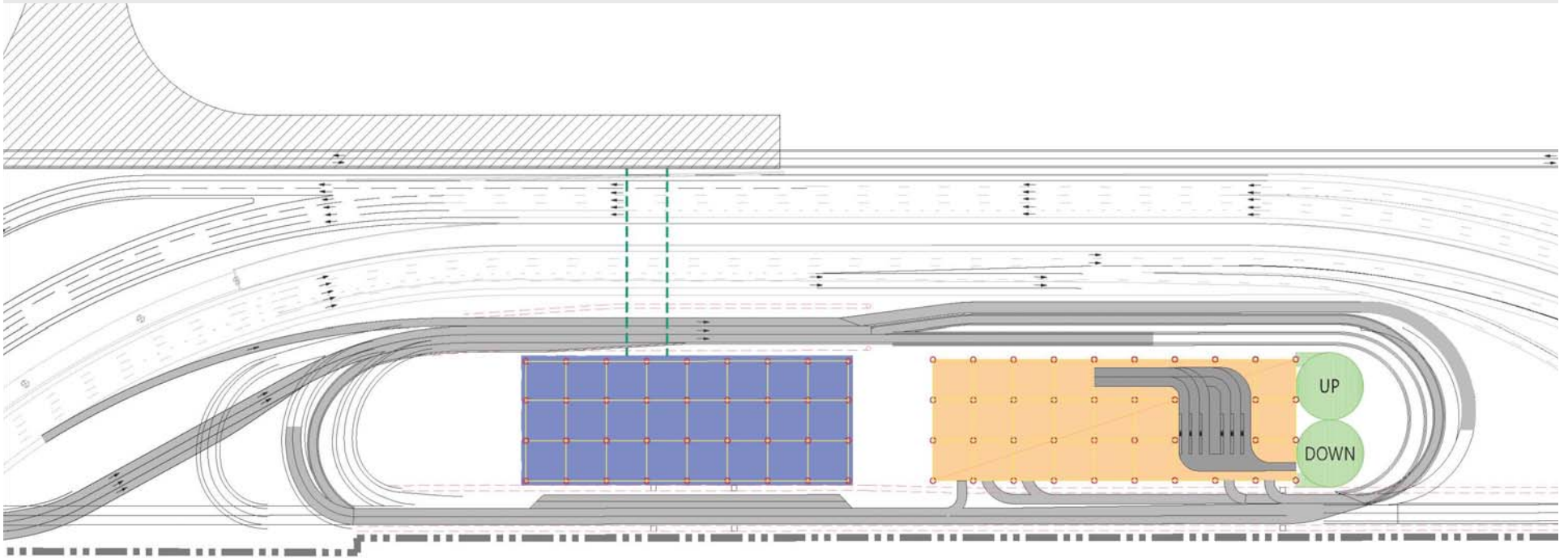
2nd Terminal/Roadway Concepts

Alternative 3: Curbs on East Side of Terminal (at grade – level 0)



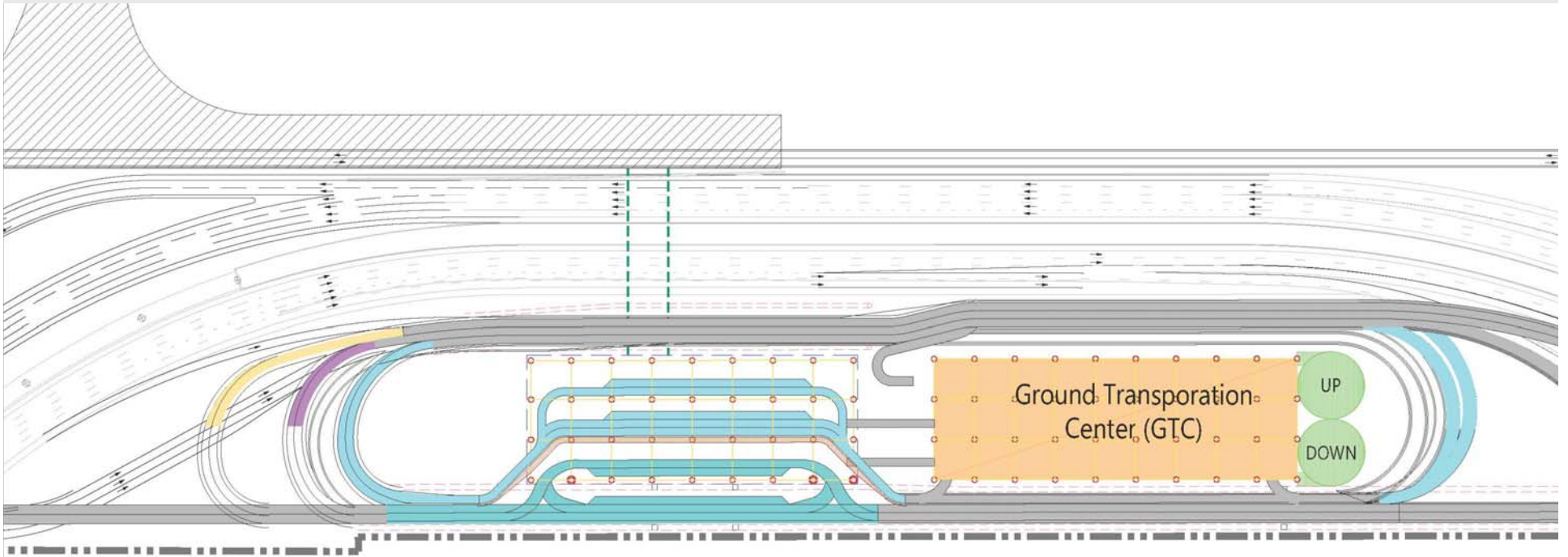
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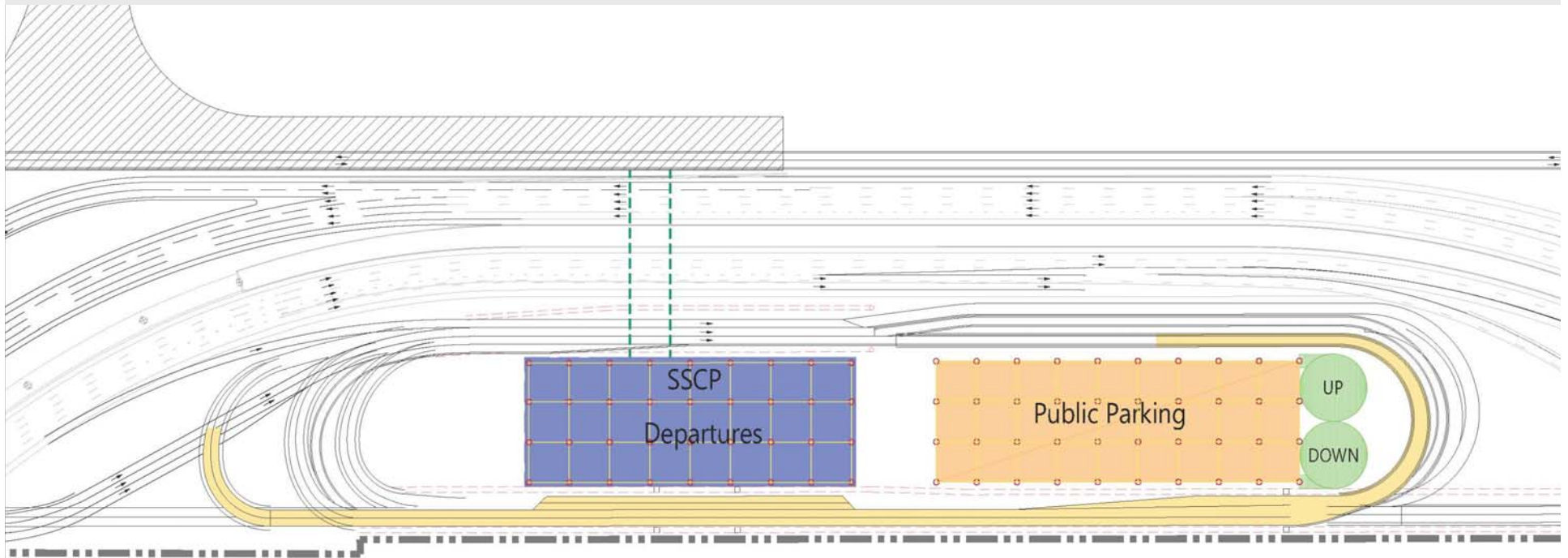
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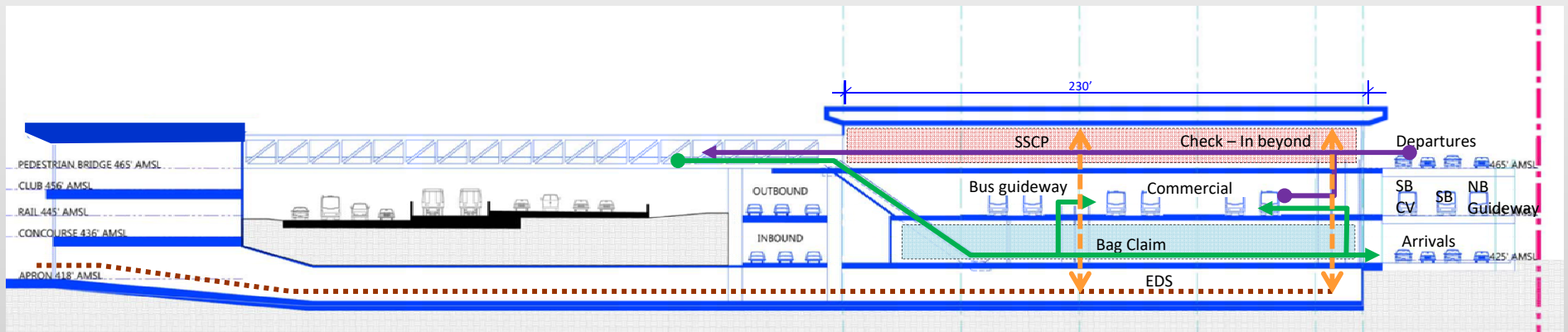
2nd Terminal/Roadway Concepts

Alternative 3: Curbs on East Side of Terminal (above grade – level 2)



2nd Terminal/Roadway Concepts

Alternative 3: Curbs on East Side of Terminal (cross section / flow diagram)



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- Departures
- Arrivals
- Tug
- Conveyor