

AVIATION CAPITAL PLANNING & PRELIMINARY DESIGN ACTION ITEM

July 23, 2019

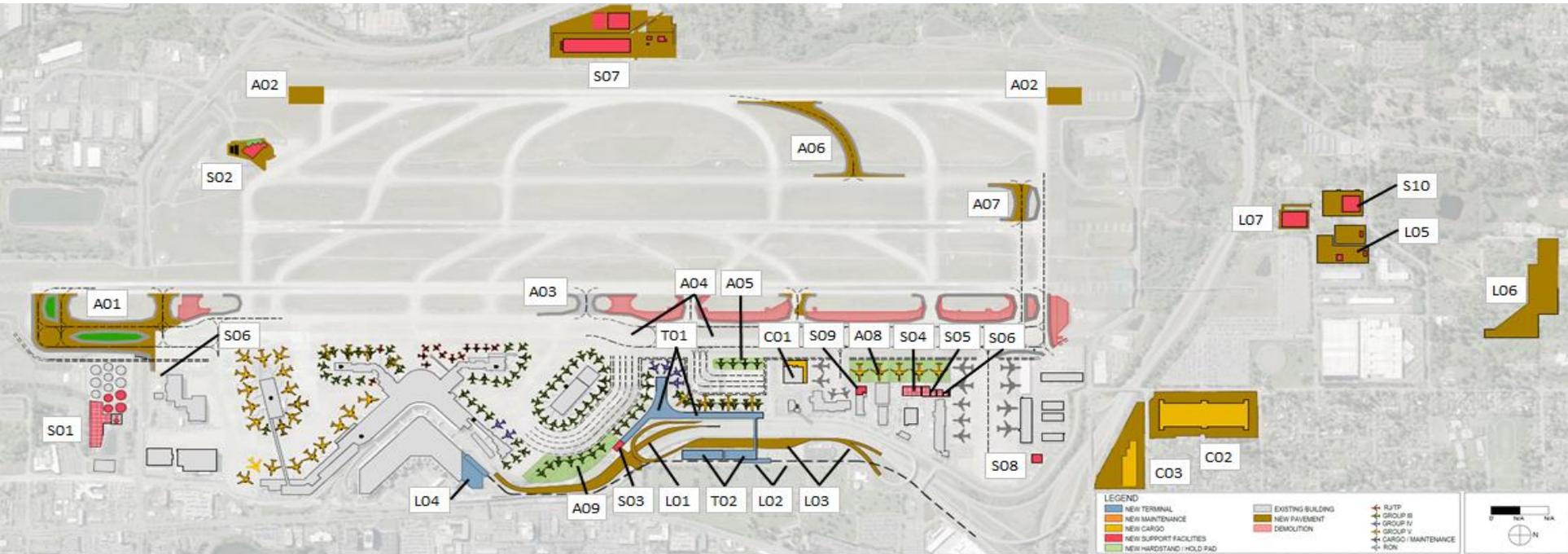
Briefing overview

- Project Planning Process
- Near-Term Projects
- Projects Requiring Preliminary Design
- Glideslope Antenna Relocation
- Next Steps

Project Planning Process

- **Master planning** - *complete*
 - Campus wide, comprehensive planning
 - Alternatives analysis for major plan elements
- **Advanced planning** - *in progress*
 - More detailed planning in focus areas of long-range plan and existing facilities
 - Alternatives analysis within individual projects (e.g. options for configuring curbs and functional areas for Second Terminal)
- **Preliminary design** - *current capital funds request*
 - Program development for individual projects
 - Adequate detail required to transition projects to design
 - Results in a Project Definition Document (PDD)

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

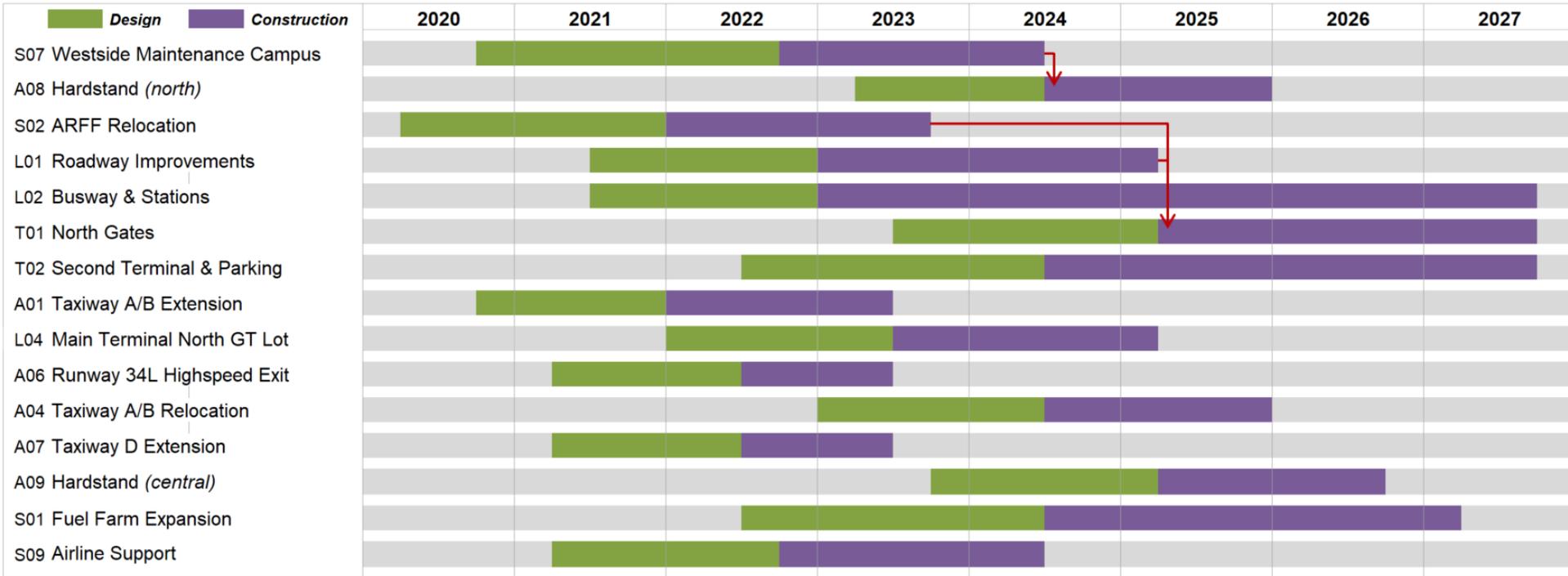
- L01** NAE Relocation (southbound lanes)
- L02** Elevated Busway & Stations
- L03** Second Terminal Roads/Curbside
- L04** Main Terminal North GT Lot
- L05** North GT Holding Lot
- L06** Employee Parking Surface Lot
- L07** Employee Parking Structure

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

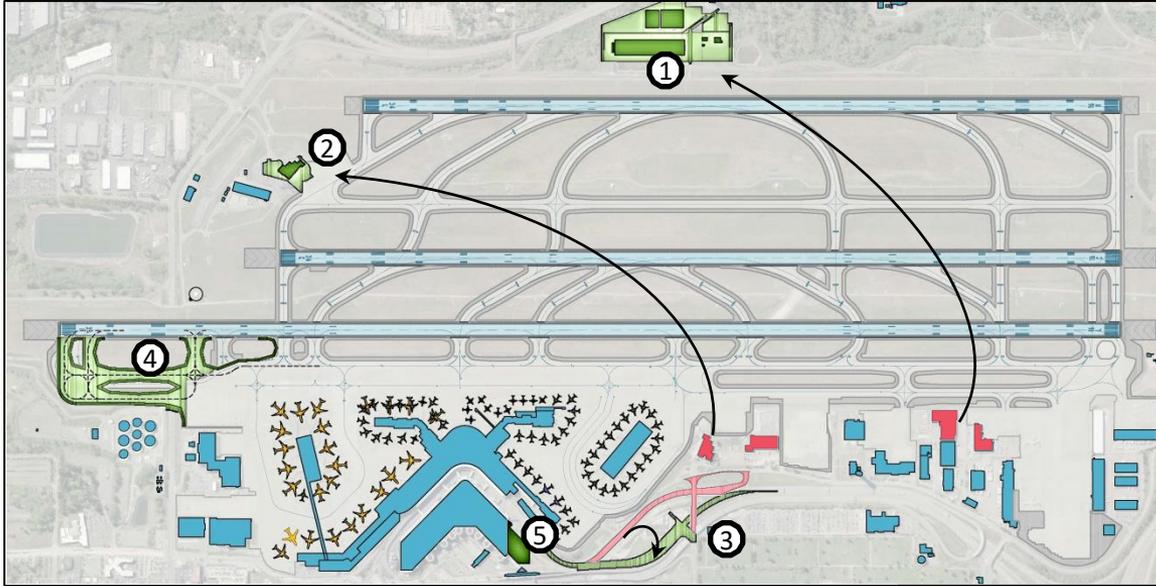
Near-Term Projects

Design/construction period estimates for major projects



NOTE: Preliminary design precedes design phase shown above and is not depicted. Commission authorization is required to proceed into design

Projects Requiring Preliminary Design



- 1) Westside Maintenance Campus
- 2) Aircraft Rescue and Fire-Fighting (ARFF) Relocation
- 3) Roadway Improvements
- 4) Taxiway A/B Extension
- 5) Main Terminal North GT Lot

Design/construction period estimates



Glideslope Antenna Relocation

- Taxiway A/B project requires relocation of Runway 34R glideslope antenna
 - Opportunity to adjust slope angle and increase aircraft elevation on approach
 - Sea-Tac Stakeholder Advisory Round Table (StART) recommendation
 - Relocate to potentially permanent location (i.e. consistent with Taxiway A/B project)
 - Attempt to obtain a 3.1° glideslope angle
 - Look for ways to expedite the project
 - Begin design (design at risk prior to conclusion of environmental review)
 - Initiate procedure development as soon as possible
 - Design/construction by FAA with reimbursement by the Port

Next Steps

- Following Commission authorization...
 - Utilize \$10M capital funds to conduct preliminary design
 - Projects currently identified as requiring preliminary design in the short term
 - Westside Maintenance Campus
 - Air Rescue and Fire-Fighting (ARFF) Facility
 - Taxiway A/B Extension
 - Main Terminal North GT Lot
 - North Airport Expressway Improvements
 - Other projects to be identified through additional advanced planning
 - Procure and execute professional services contracts
 - Enter into Reimbursable Agreements with FAA (*Glideslope*)