

WELCOME

Southwest Florida International
Airport

Federal Aviation Regulations (FAR)
Part 150 Overview

Public Workshops
Round 2

November 2011



where service and solutions meet

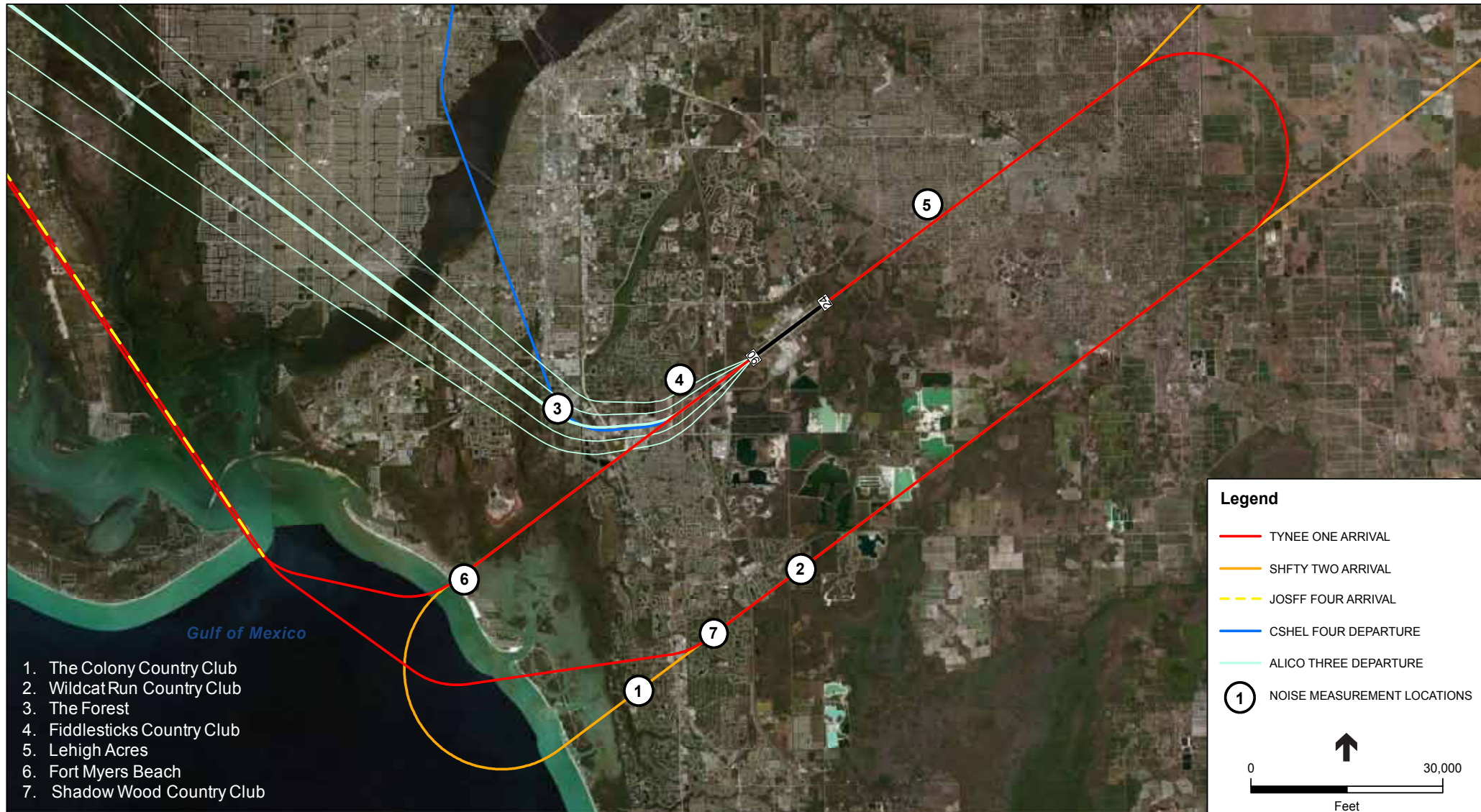
Noise Study Process - Part 1

Develop Noise Exposure Maps (NEMs)

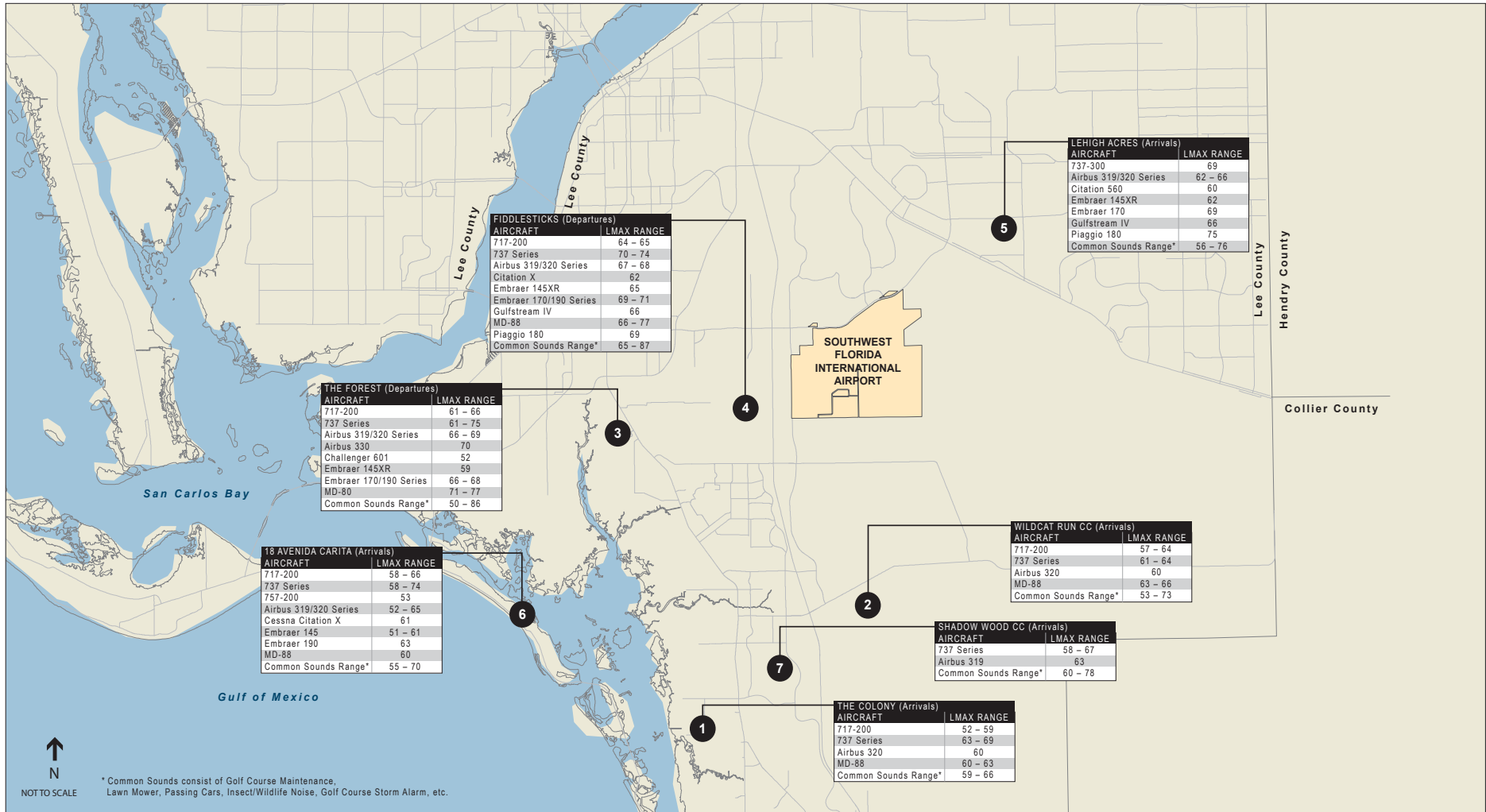
Part 1 80% Complete:

- ✓ Reviewed FAA Integrated Noise Model (INM) computer program with live field noise measurements
- ✓ Gathered community input and recommendations
- ✓ Developed airport noise contours for the existing and 5th year projected noise conditions
- Submit information to FAA for acceptance – becomes baseline condition for Phase 2

Live Field Measurement Locations

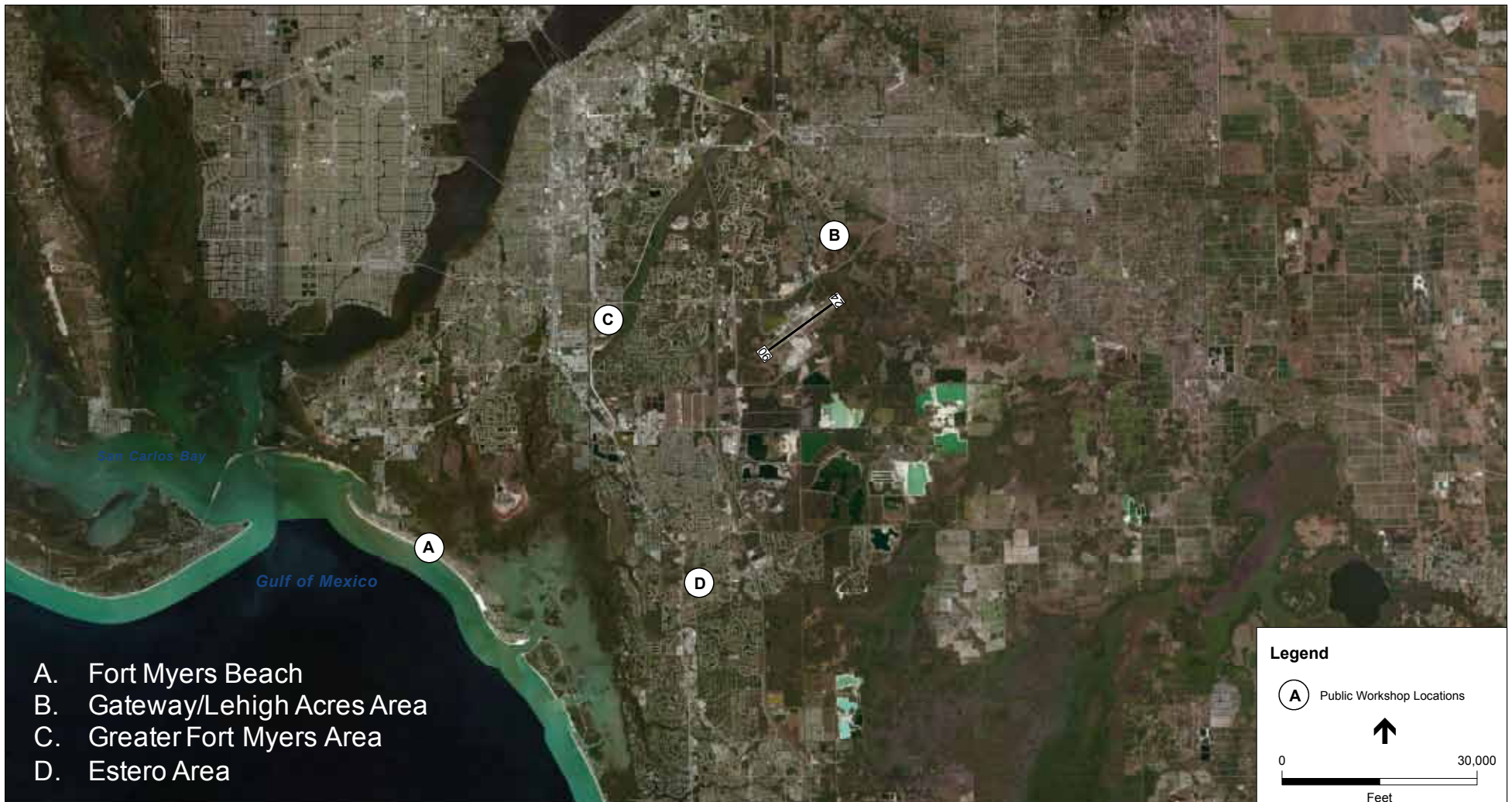


Live Field Measurements



Summary of Community Input

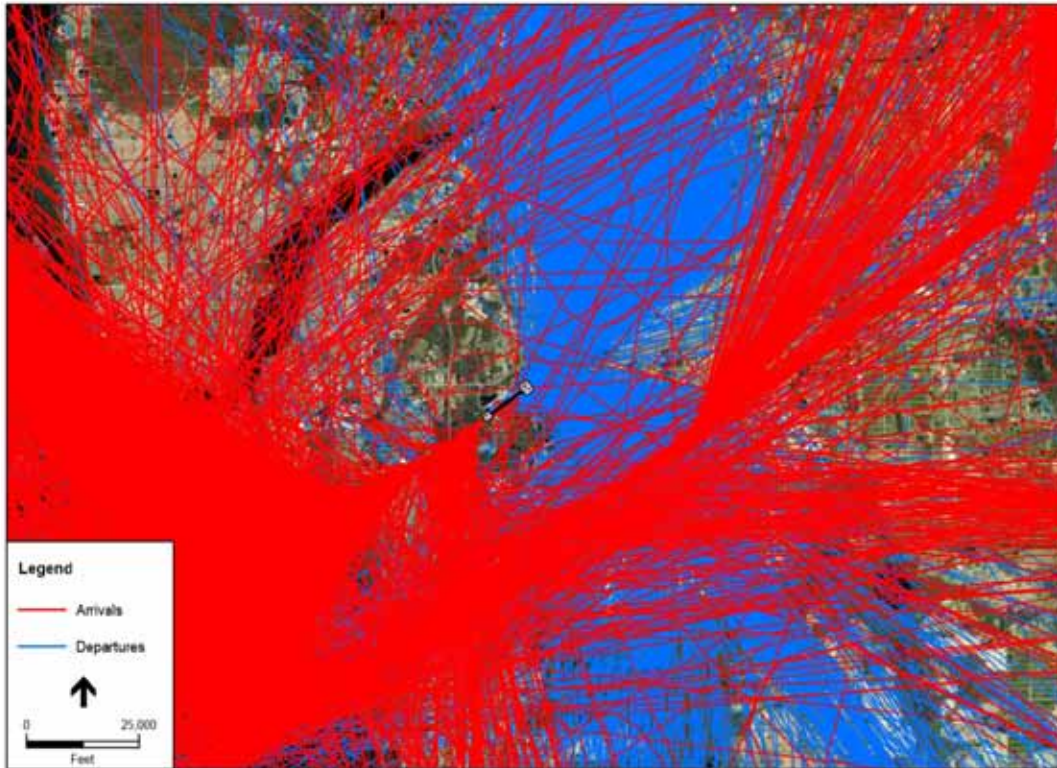
- 4 public workshops held with 185 total attendees (8/15 – 8/18)
- 83 public comments and recommendations submitted



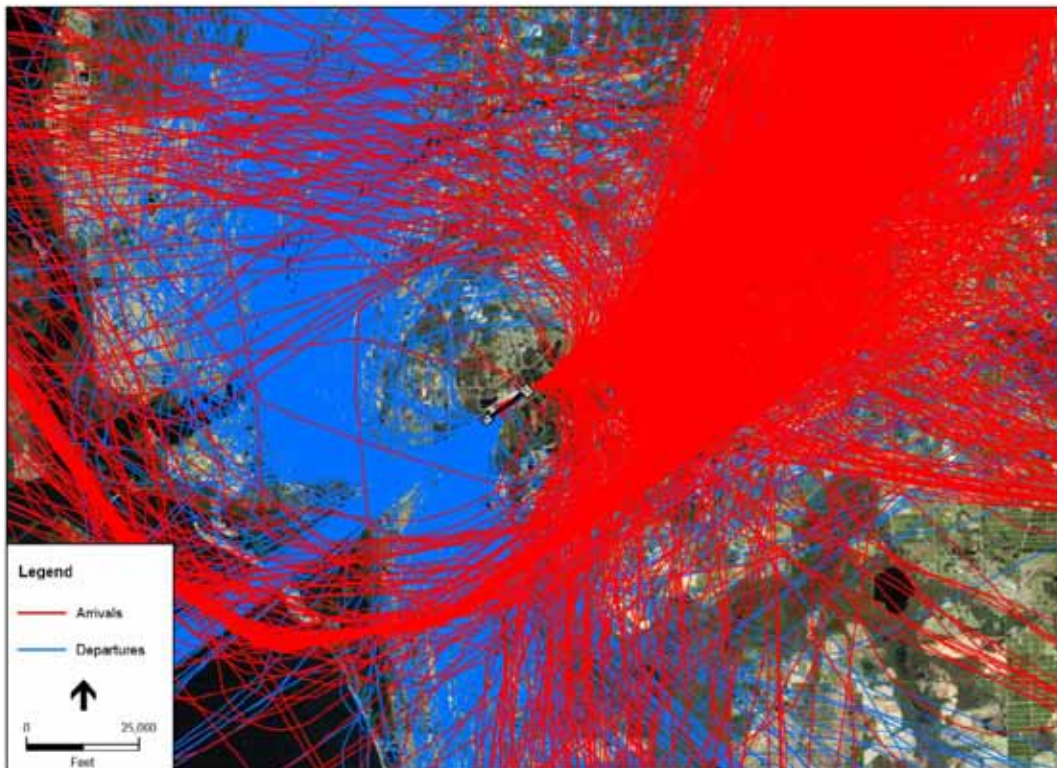
Summary of Community Recommendations

- Increase altitudes of early morning flights
- Increase altitudes on downwind to Runway 06
- Increase altitudes over Fort Myers Beach
- Turn aircraft before reaching beach
- Extend aircraft further over ocean before turns toward beach
- Implement Estero Plan
- Delay point at which aircraft put gear down
- Route aircraft over Gulf and unpopulated areas
- Use low power continuous descent approaches
- Don't change aircraft paths to fly over our community
- Move Runway 24 departure procedures to less populated area
- Minimize late night flights over residential areas
- Shift Runway 06 downwind south
- Encourage airlines to use quieter aircraft
- Fan departing aircraft
- Provide opportunity for public input before any changes
- Concerns over air quality, wildlife, soot, safety, property values

FAA Radar Tracks

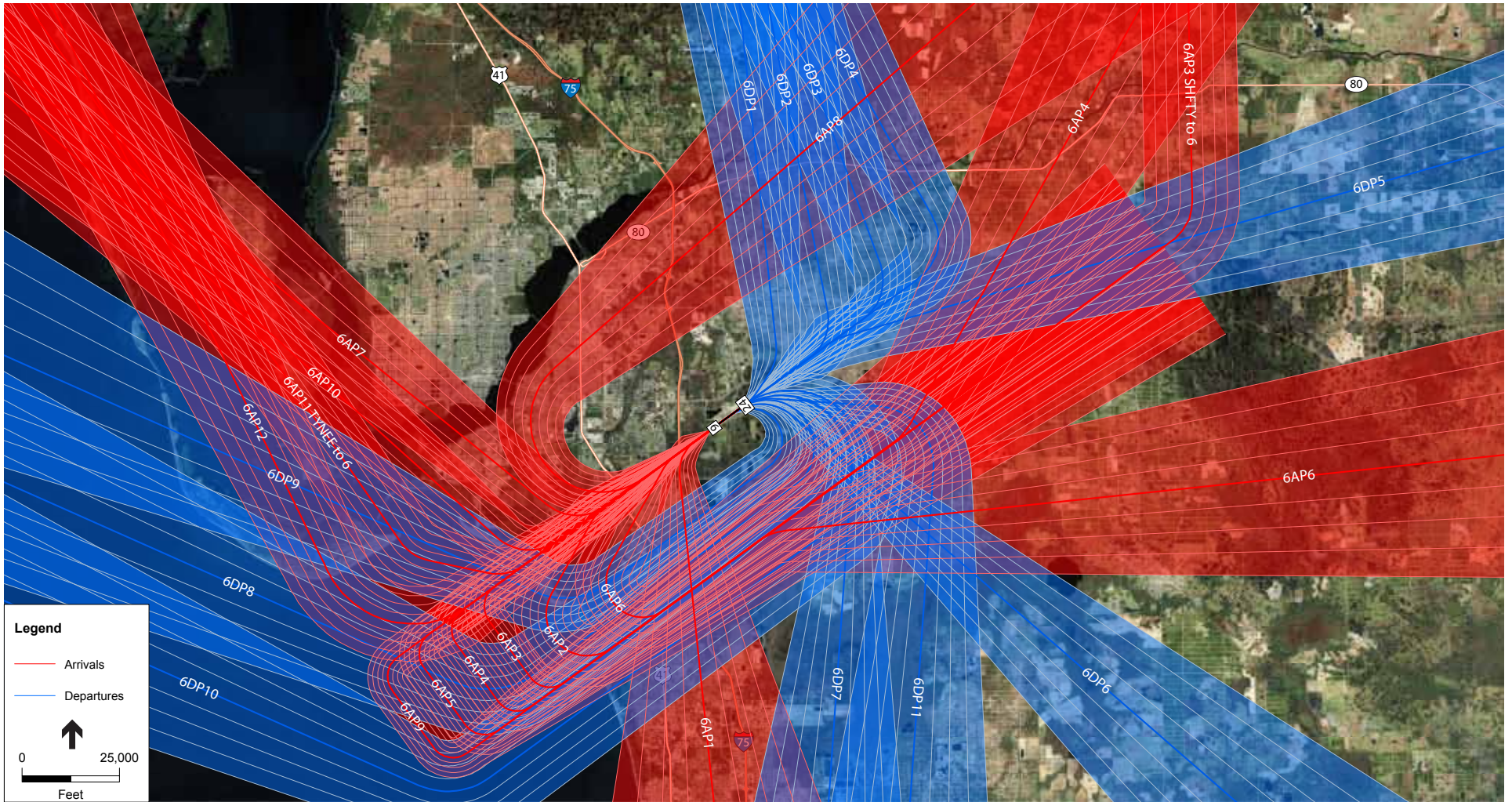


Radar Tracks - North East Flow

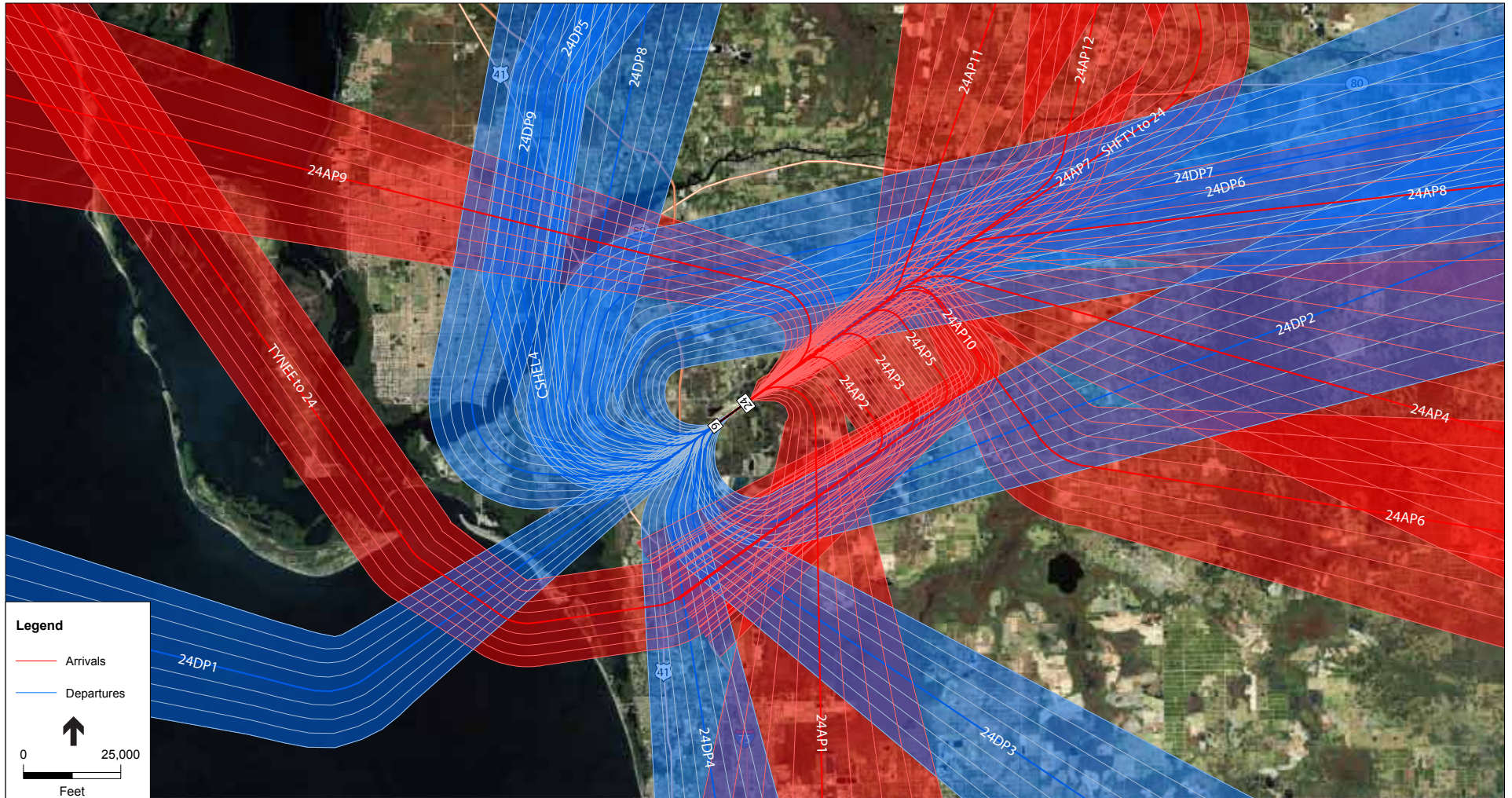


Radar Tracks - South West Flow

Northeast Flow Modeled Flight Tracks



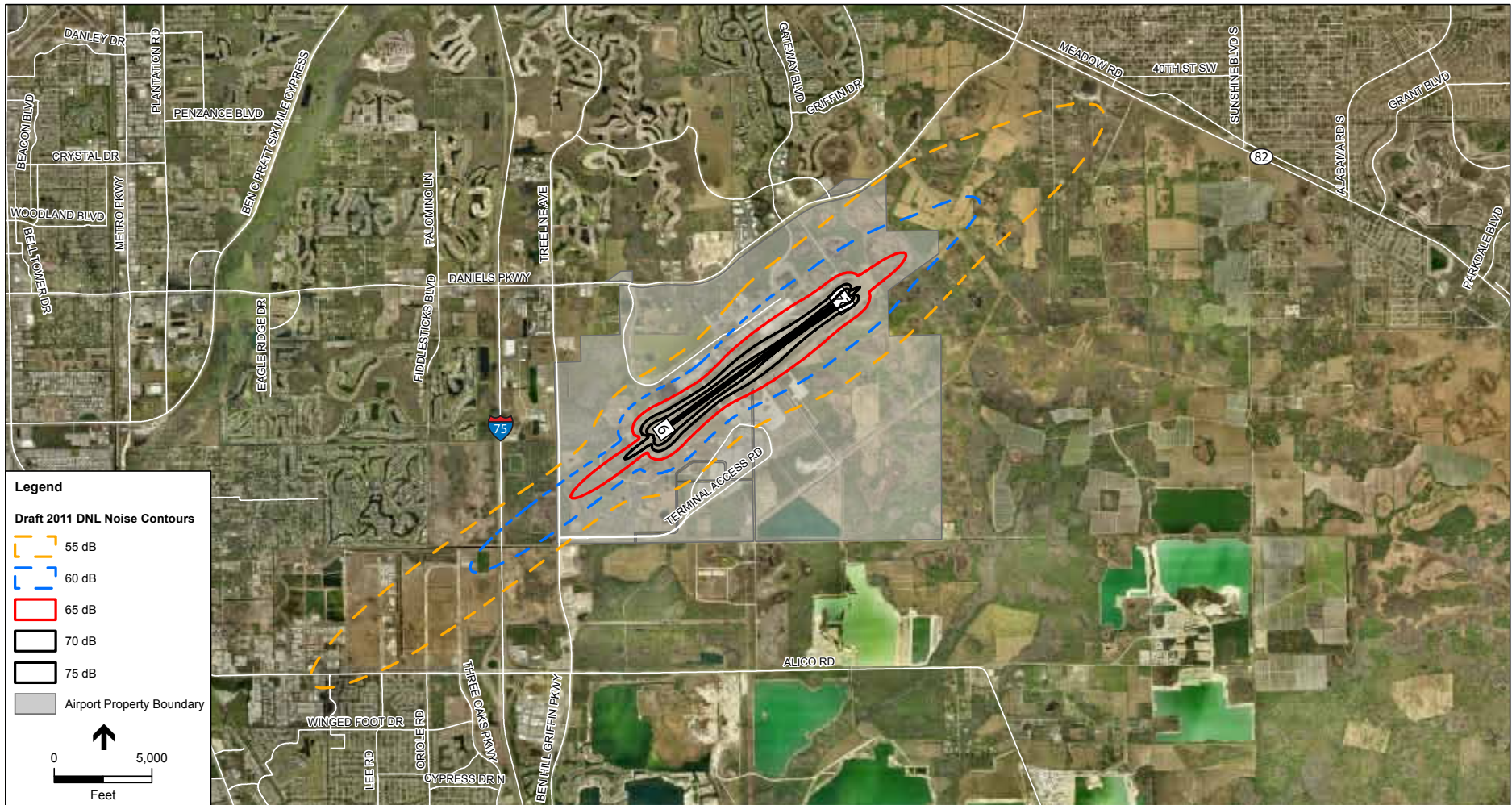
Southwest Flow Modeled Flight Tracks



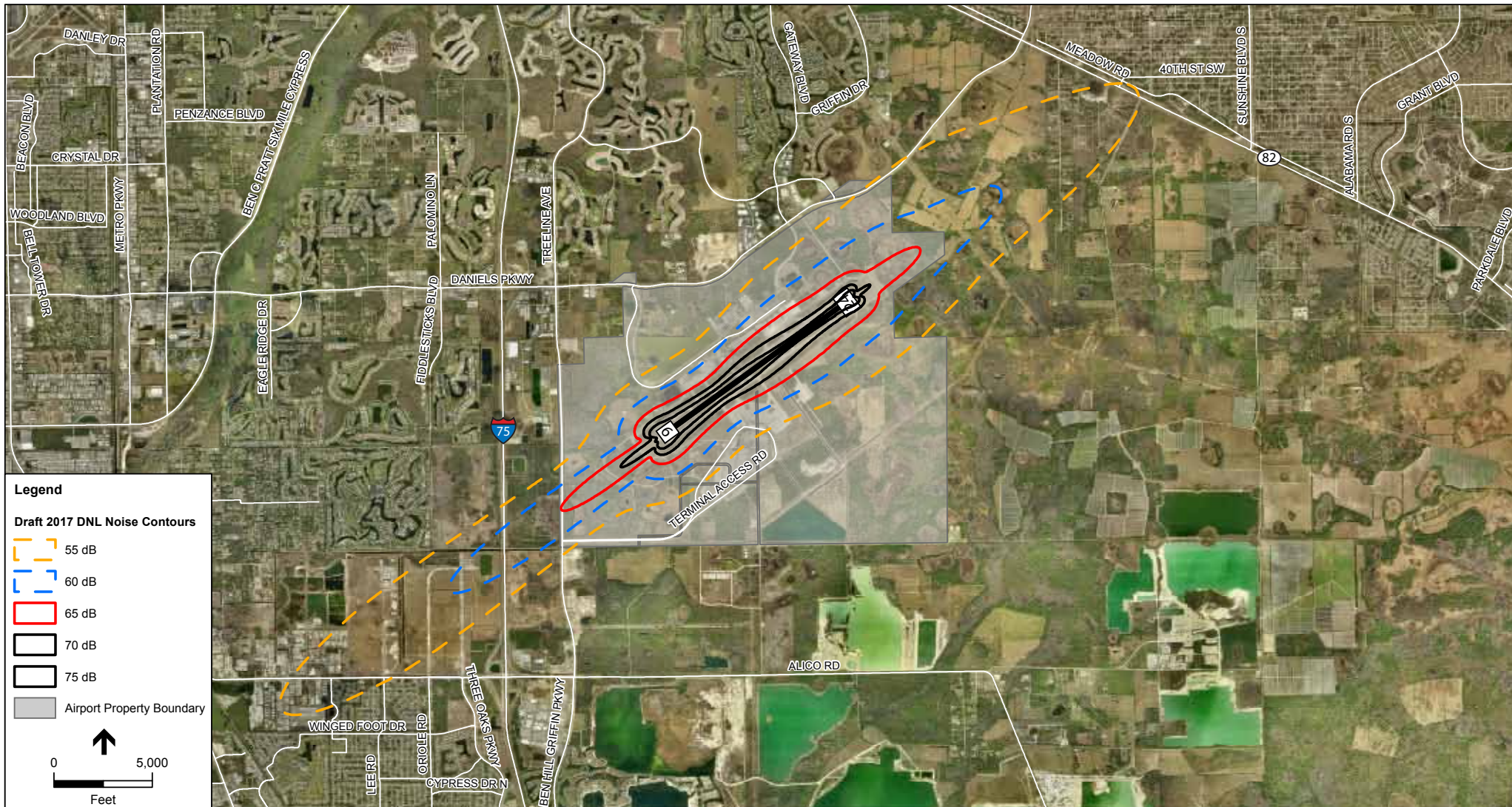
Why is 65 DNL Important?

- **65 DNL and higher** = FAA and the US Department of Housing and Urban Development (HUD) consider to be incompatible with residential, schools, hospitals and other noise-sensitive uses near airports.
- **Less than 65 DNL Contour** = federal government considers all uses compatible with airport noise
- There is no FAA impact threshold for noise significance associated with a single aircraft overflight.

FAA Integrated Noise Model 2011 Baseline Noise Contours



FAA Integrated Noise Model 2017 Baseline Noise Contours



Noise Study Process - Part 2

Develop Noise Compatibility Plan (NCP)

Part 2 15% complete

- Evaluate changes to flight procedures
 - Aircraft flight corridors
 - Aircraft altitudes
 - Preferred runway use
 - Flight procedure evaluation constraints
 - Do not compromise safety
 - Do not create delays in the air traffic system
 - Do not create a burden on FAA (i.e. time) or airlines (i.e., fuel)
 - Do not merely move flights over another community
- Evaluate land use overlay zoning
- NCP approved by local Board
- Submit to FAA for approval and implementation

Evaluations Currently Under Way

- Raise downwind approach to Runway 6 to 5,000'
- Keep aircraft at 3,000' over Ft. Myers Beach (currently a voluntary procedure)
- Increase glide slope to 3.5 degrees
- Establish Optimized Profile Descent (Southwest Airlines Approach)
- Implement Estero Plan (SHFTY to TYNEE transition)
- Publish Charted Visual Approach to Runway 6
- Publish RNAV procedure for Runway 6 Departures
- Move downwind leg to Runway 6 further south
- Establish helicopter noise abatement flight tracks
- Establish Runway 24 as the designated calm wind runway
- Establish reverse thrust restrictions
- Identify run-up location(s) on the airfield
- Implement NBAA and/or AOPA noise abatement best practices
- Install runway end noise abatement reminder signs
- Publish “Jeppesen” type pilot handout
- Update land use overlay zones
- Designate future land acquisition for noise sensitive areas

RSW Noise Study Schedule

- ✓ Data Acquisition/Public Meetings – Summer 2011
- ✓ Field Measurements and Noise Modeling – Summer 2011
- ✓ Draft Noise Contours Developed – Fall 2011
- *Round #2 Public Meetings – Fall 2011*
- Develop/Evaluate Alternatives – Winter 2011
- FAA Approval of Noise Contours – Spring 2012
- Round #3 Public Meetings – Spring 2012
- Draft Study Recommendations – Summer 2012
- Board Endorsement/Submit to FAA – Fall 2012
- FAA Approval Final Approval/Implementation – 2013

