



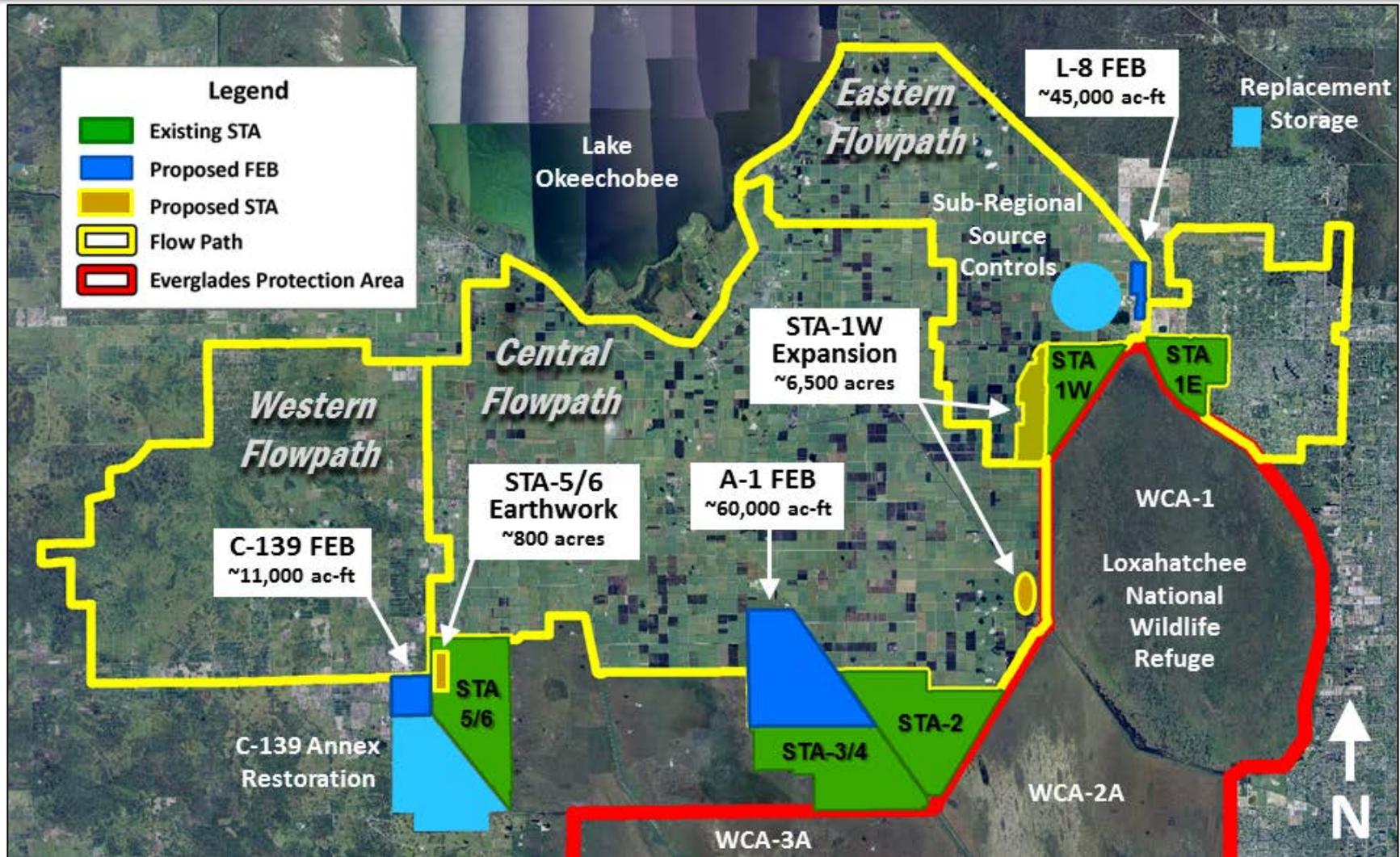
SFWMD Program and Project Update

South Florida Ecosystem Restoration
Task Force Meeting

June 29, 2016

Ernie Marks, Division Director
Office of Everglades Policy & Coordination, SFWMD

Restoration Strategies Program



A-1 Flow Equalization Basin (FEB)

- 15,000 acres by 4 feet deep \approx 60,000 acre-feet
- Status:
 - Operational Testing and Monitoring Phase (OTMP) began November 2015
 - Captured stormwater runoff that resulted from record-setting January 2016 rainfall
 - Captured a total of 220,000 acre-feet of water during Water Year (WY) 2016
 - Captured \sim 55,000 acre-feet of Lake Okeechobee water during WY2016
 - Reduced TP concentration from 90 to 35 parts per billion (ppb) during WY2016



L-8 Flow Equalization Basin (FEB)



87% complete

- 800 acres by 58 feet deep \approx 45,000 acre-feet
- Status:
 - Construction ongoing
 - Outflow pump station (G-539) in testing phase
 - Completion expected October 2016

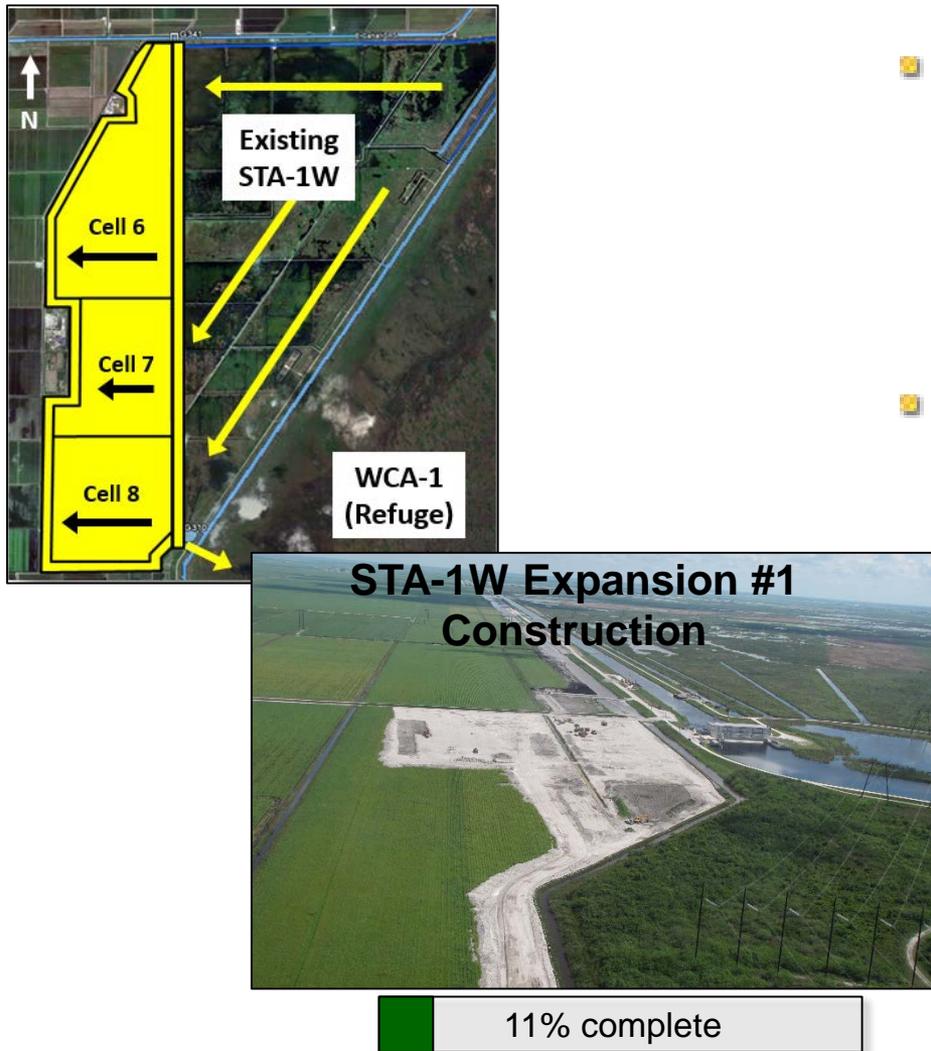


G-538



G-539

STA-1W Expansion



- 5,900 acres of additional treatment wetland (on ~6,500 acres of land) in 2 phases
 - Expansion #1 \approx 4,300 acres
 - Expansion #2 \approx 1,600 acres
- Status:
 - Construction contract for Expansion #1 awarded November 2015
 - Completion expected December 2018
 - Land exchange with U.S. for Expansion #2 postponed until July 2016 (requested by U.S.)
 - Expansion #2 design to start by 2018

Conveyance Improvement Projects



- S-5AS Modifications - complete
- L-8 Divide Structure (G-541)
- S-375 Expansion (G-716)
- G-341 Related Conveyance Improvements (Bolles East Canal)



95% complete

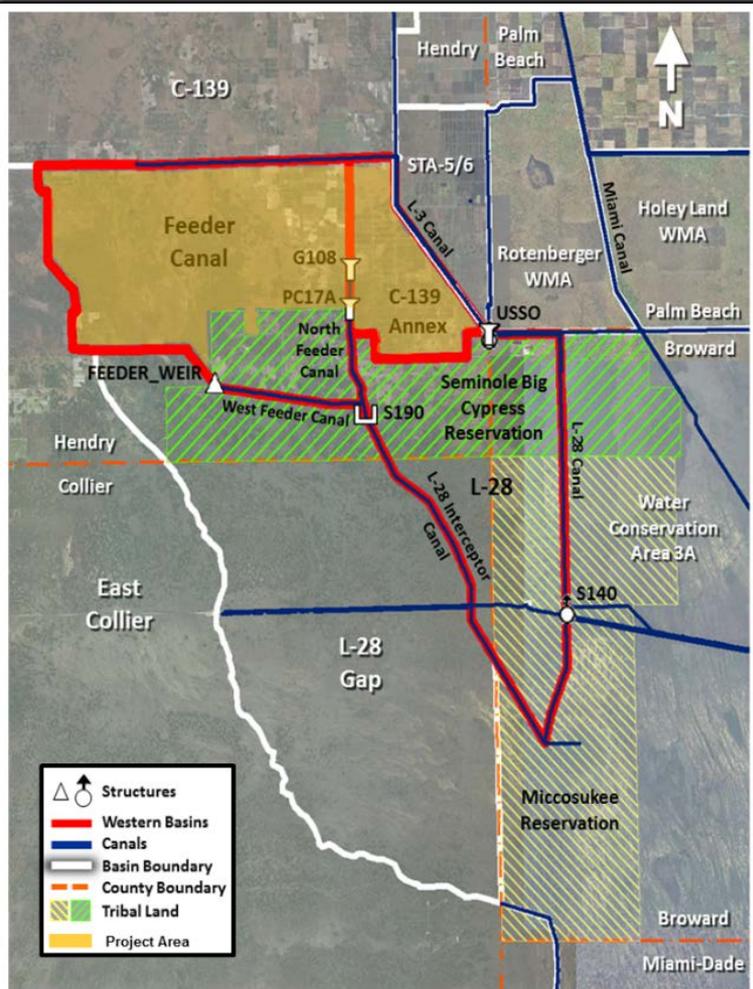


42% complete



92% complete

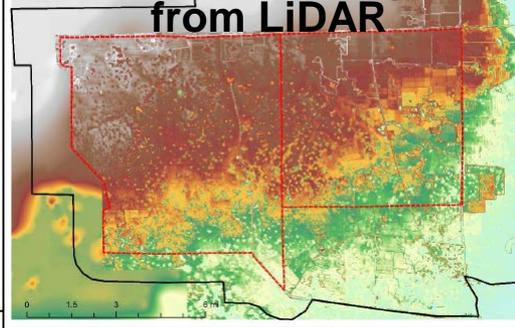
Western Basins Water Resource Evaluation



Status:

- Identified potential sub-regional and local structural improvements to be modeled for water quality improvements
- Developing an integrated surface water/groundwater model
- Model calibration in process with limited data available

Feeder canal topography from LiDAR



PC-17A



51% complete

C-44 Reservoir/STA

C-44 S-404
Spillway

COMPLETED

C-44 STA

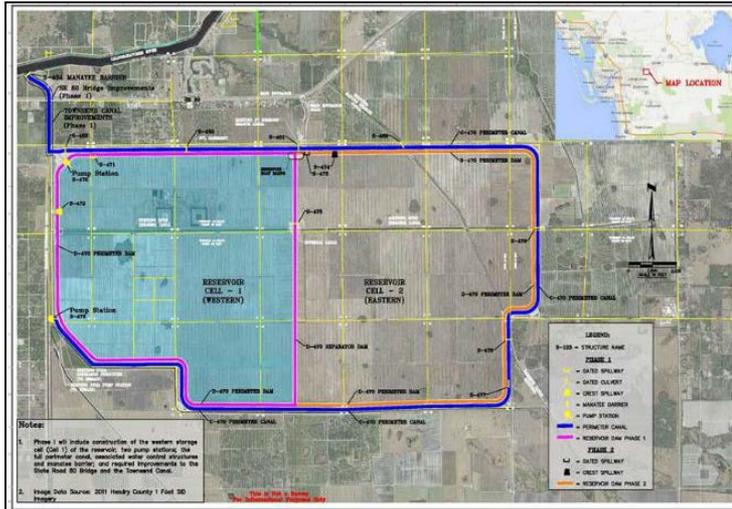
C-44 S-401 Pump Station

38% complete

23% complete

- S-404 Spillway Status:
 - Construction complete
- STA Status:
 - Construction Start: October 2014
 - Construction Finish: September 2017
- Pump Station Status:
 - Construction Start: April 2015
 - Construction Finish: September 2018

C-43 Reservoir (Cell 1)



<10% complete



- Project is being delivered in 4 bid packages
- Package 1: Preload & Demolition
 - Construction Start: November 2015
 - Construction Finish: July 2017
- Package 2: Pump Station S476
 - Construction Start: June 2016
 - Construction Finish: January 2018
- Package 3: Pump Station S470 and Inflow Works
 - Construction Start: September 2017
 - Construction Finish: April 2020
- Package 4: Embankment/Civil Works
 - Construction Start: September 2017 (Cell 1)
 - Construction Finish: February 2021 (Cell 1)

Picayune Strand Restoration Project

■ Manatee Mitigation Feature Status:

- Construction complete
- Construction Start: May 2015
- Construction Finish: March 2016

■ Southwestern Protection Feature Status:

- Initiating design level modeling to determine design criteria for levee and complete T&E Species Act consultation – Complete March 2017
- Design Start: April 2017
- Design Finish: March 2018
- Construction Start: October 2018

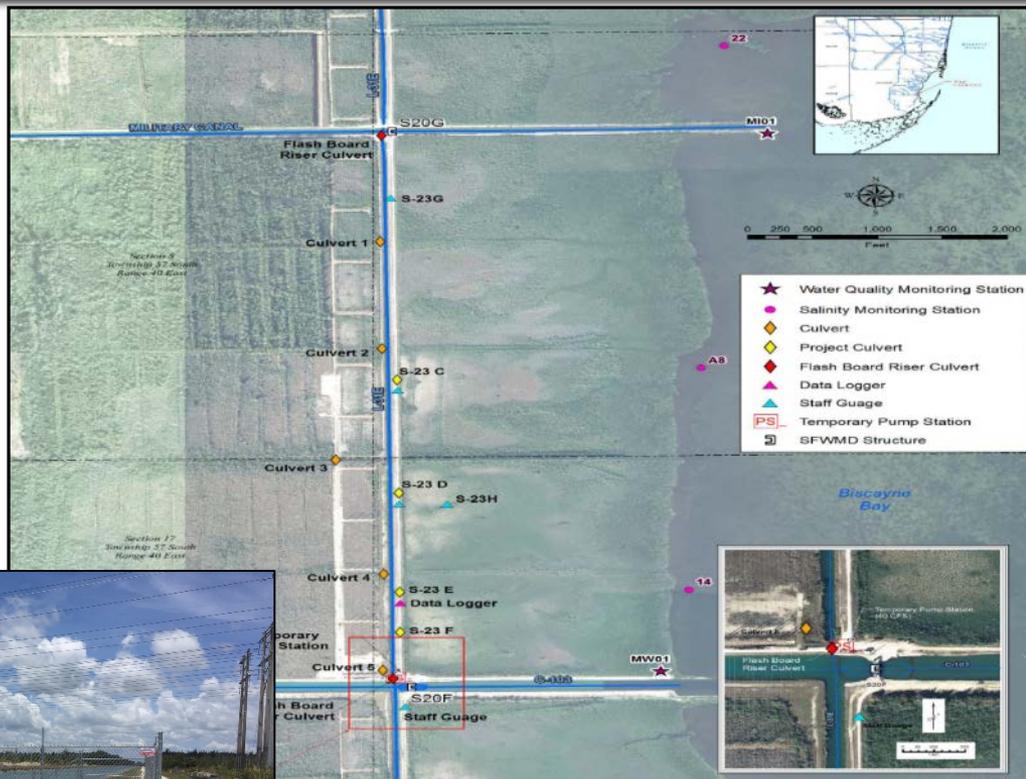


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Biscayne Bay Coastal Wetlands: L31E Flow-way Interim Operations

Status:

- Pump installed March 2016
- FPL power installation anticipated August 2016
- Pump operational August 2016



75% complete



Interim pump installed at C-103/L31E Canals in Homestead, FL

Lakeside Ranch STA Phase 2 (South)

Southeast of STA-North (Phase I)



Clearing the site for construction of STA-South



<10% complete

■ Status:

- Contract Awarded: November 2015
- Construction Start: January 2016
- Construction Finish: January 2018
- Levee construction has started

Central Everglades Planning Project: Old Tamiami Trail Removal

- Road removal and power line relocation project supported by ENP, FWC, FDEP, and USACE
- Status:
 - Remove six miles of old road
 - Relocate power lines
 - PPCA signed in May 2016

Intersection of Old Tamiami Trail and Tram Road



High Water Relief: L-28 Plugs

- Moved water from Water Conservation Area 3A into Big Cypress National Preserve as part of the February 2015 Emergency Order
 - Rebuilt six earthen plugs in the L-28 Canal
 - Authorized to temporarily deviate from standard operating protocols by operating the S-344 Structure
- Construction of the plugs is complete and the S-344 is operating per agreed-upon strategy



Plug # 6 (northernmost near S-344)

High Water Relief



Tie Back Berm

Richmond Drive Seepage Canal C-358

Removed Plug

S-357



Three 36-inch Corrugated metal pipes with risers

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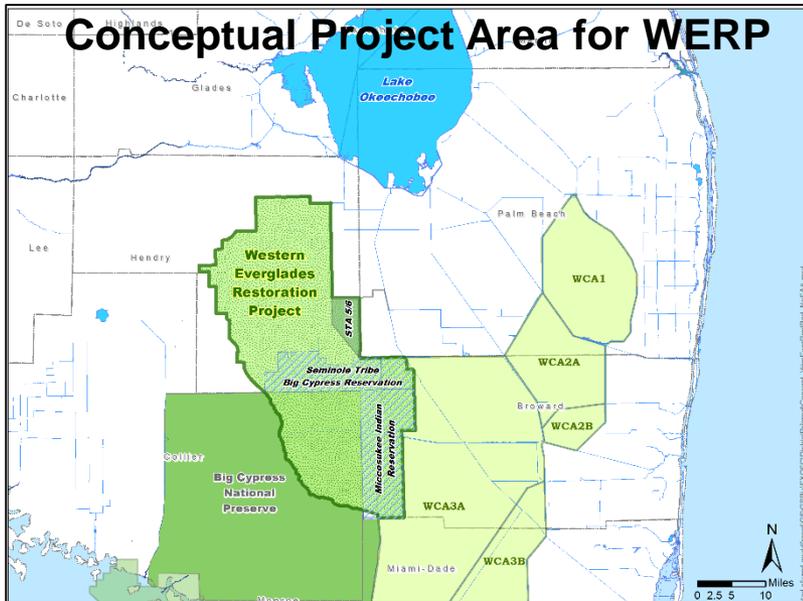


Temp canal connecting C-357 and C-358

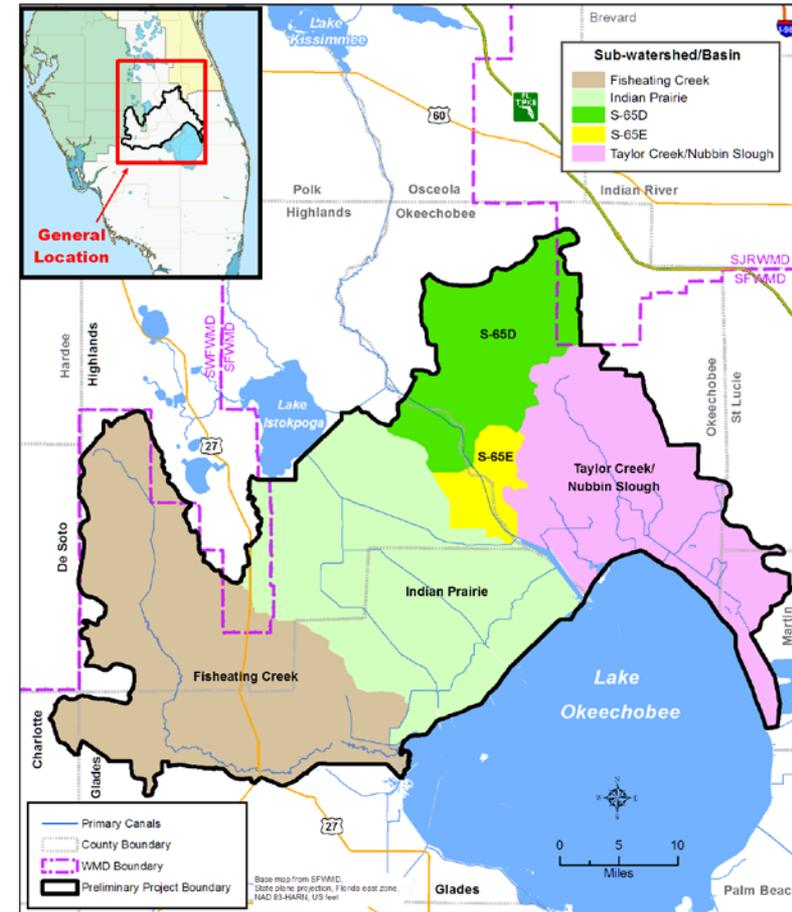
Culverts

Upcoming CERP Planning Efforts

- Lake Okeechobee Watershed Project (LOWP) - July 2016
 - Conveyance, treatment and storage
- Western Everglades Restoration Project (WERP) - August 2016
 - Conveyance, treatment and storage



Conceptual Project Area for LOWP



New Capital O&M

- Prairie Canal
- Merritt Pump Station
- C-44 Intake Canal
- Kissimmee River Restoration Contracts 15 and 15A – River Acres Flood Reduction



Discussion

STA-1W Expansion #1 Construction

