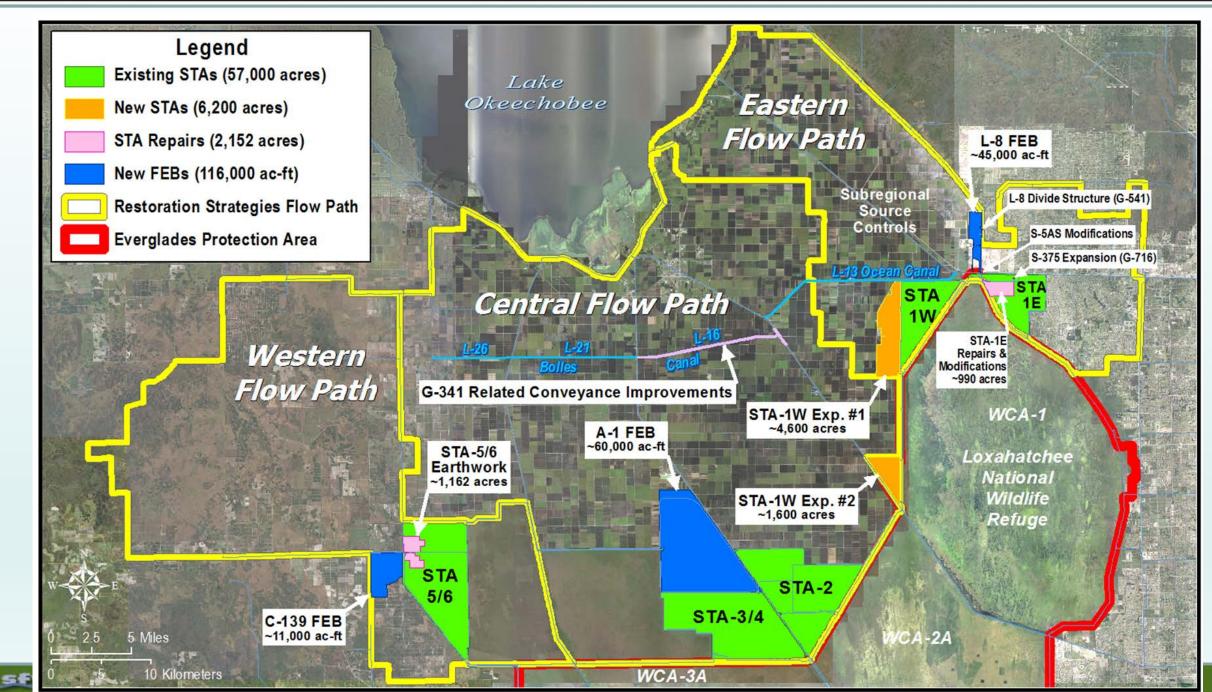
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

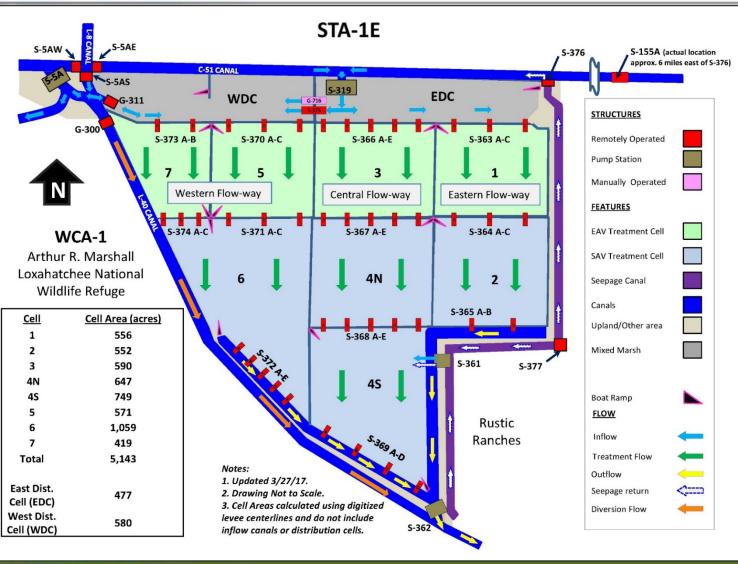
Restoration Strategies Engineering and Construction Update

Lucine Dadrian, P.E.
Section Administrator
Engineering and Construction Bureau

17th Annual Public Meeting on the Long-Term Plan for Achieving Water Quality Goals for the Everglades Protection Area Tributary Basins February 24, 2020



STA-1E Repairs & Modifications Project



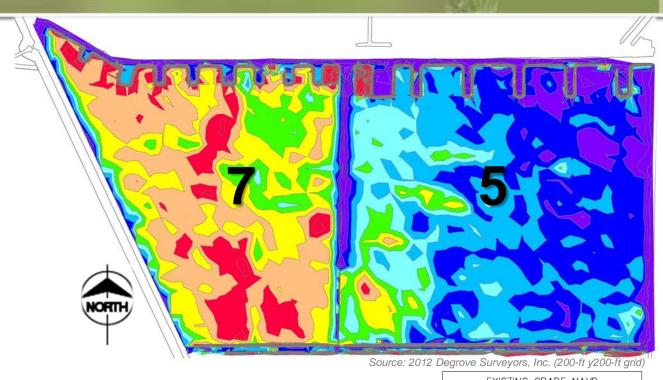
> Purpose

- Raise and regrade ~990 acres in Cells 5 and 7 to achieve sustainable Emergent Aquatic Vegetation
- Design complete
- Construction
 - Contract for import of fill and hauling awarded at February Governing Board Meeting
 - Contract for regrading of cells is scheduled for March Governing Board Meeting



STA-1E Repairs & Modifications Project

- Regrade Cells 5 & 7 to 11.5-ft NAVD
- Cell 5 (560-acres)
 - Net balance regrading
 - Level and redistribute existing material
 - Cut east areas and use to fill west areas
- Cell 7 (430-acres)
 - Net import raise and regrade
 - Entire cell is below target elevation
 - Soil import requirements:
 1.6 million tons (1.1 million cubic yards)



TARGET

| EXISTING GRADE NAVD | | | |
|---------------------|---------|---------|-------|
| NUMBER | MINIMUM | MAXIMUM | COLOR |
| 1 | 3.1 | 9.5 | |
| 2 | 9.5 | 10.0 | |
| 3 | 10.0 | 10.5 | |
| 4 | 10.5 | 11.0 | |
| 5 | 11.0 | 11.5 | |
| 6 | 11.5 | 12.0 | |
| 7 | 12.0 | 12.5 | |
| 8 | 12.5 | 14.0 | |

STA-1W Expansion No. 2



- > Purpose
 - Extend treatment flow ways for STA-1W
- Estimated Cost \$180M
- > Features
 - 1,600 acres of additional treatment area
- > Inflows
 - S-5A and C-51 West Basins via STA-1W
- > Outflow
 - Water Conservation Area 1
- Design phase in progress
- Construction phase for pipe crossing for North Inflow PS in progress

G310

STA 1W Expansion No. 1

NORTH INFLOW PUMP STATION (FUTURE CONTRACT)

DISCHARGE
CANAL
UNDERGROUND
PIPE
INSTALLATION

STA 1W

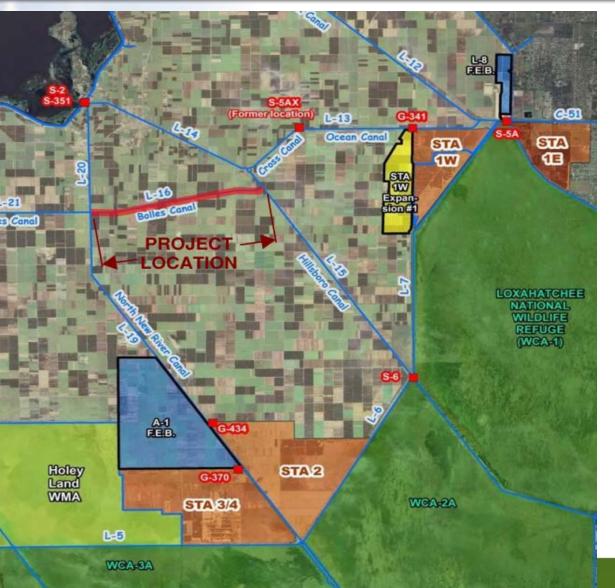
- Restoration Strategies requires STA1W to discharge to Expansion #1 and #2 separately
- Expansion #2 inflow is from the south end of STA1W discharge canal, pipe installation is to cross under Expansion #1 discharge canal and route STA1W water south along a lined channel to the Expansion #2 footprint
- Construction contract requires excavation and installation of four 60-inch by 310 feet long steel pipes purchased through separate Contract
- Approved at February 1, 2020Governing Board meeting

STA-1W Expansion No. 2

- Underground Piping Package
 - Complete Design December 2019
 - Start Construction February 2020
 - Complete Construction October 2020
- > STA Package
 - Complete RTA Design June 2020
 - Start Construction September 2020
 - Complete Construction December 2022

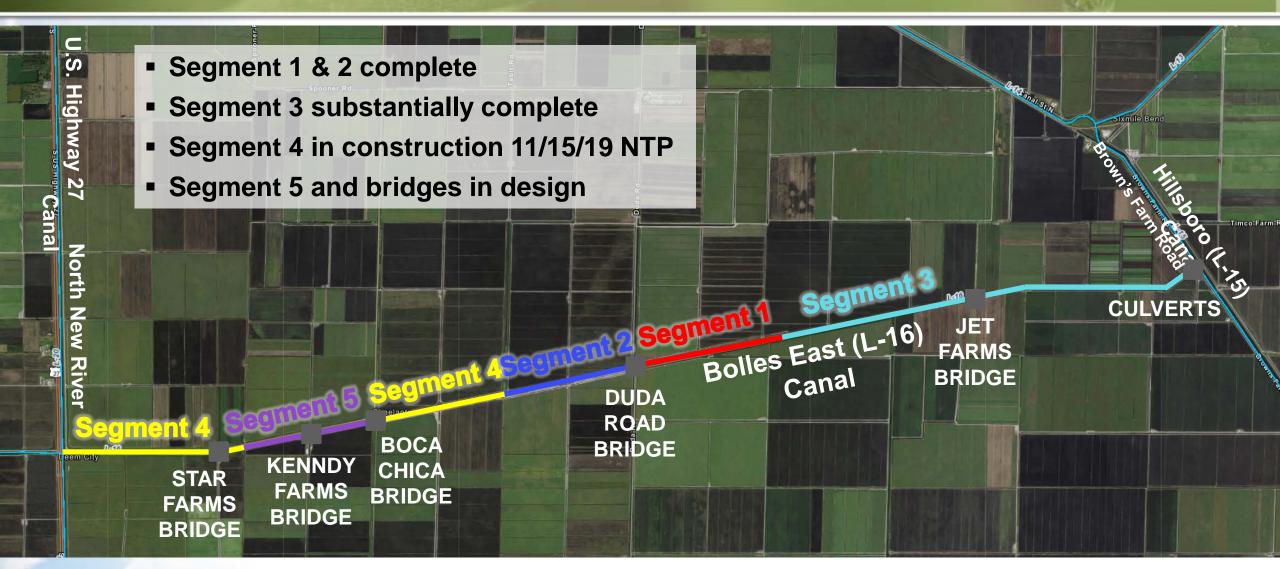
- > Inflow Pump Stations Package
 - Complete RTA Design October 2020
 - Start Construction November 2020
 - Complete Construction December 2022
- Outflow Pump Station Package
 - Complete RTA Design October 2020
 - Start Construction November 2020
 - Complete Construction December 2022

G-341 Related Conveyance Improvements Bolles East Canal

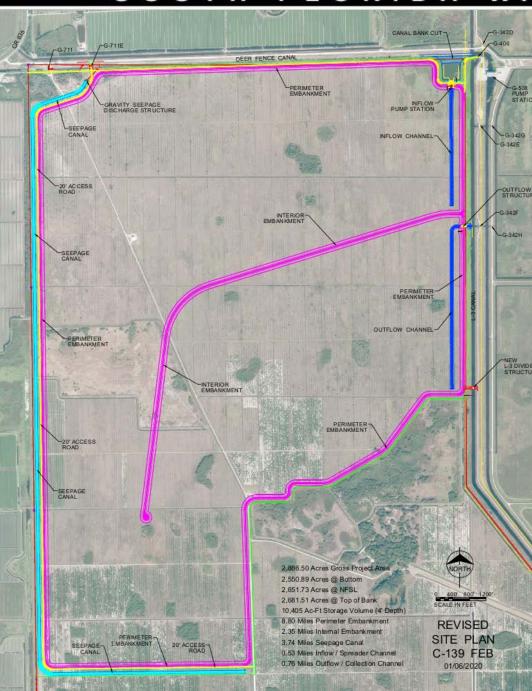


- Project boundary between Hillsboro Canal and North New River
- Deepening and widening of the L-16 Bolles Canal to construct largest possible cross-section within District right of way to increase operational flexibility
- Replace impacted farm ditches and roads outside of right of way
- Relocation of existing electrical services

G-341 Related Conveyance Improvements Bolles East Canal



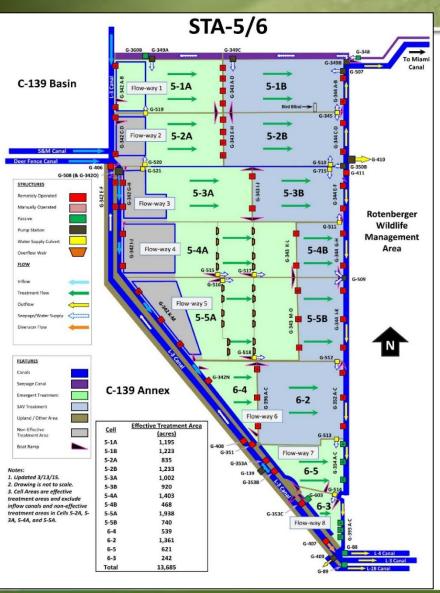




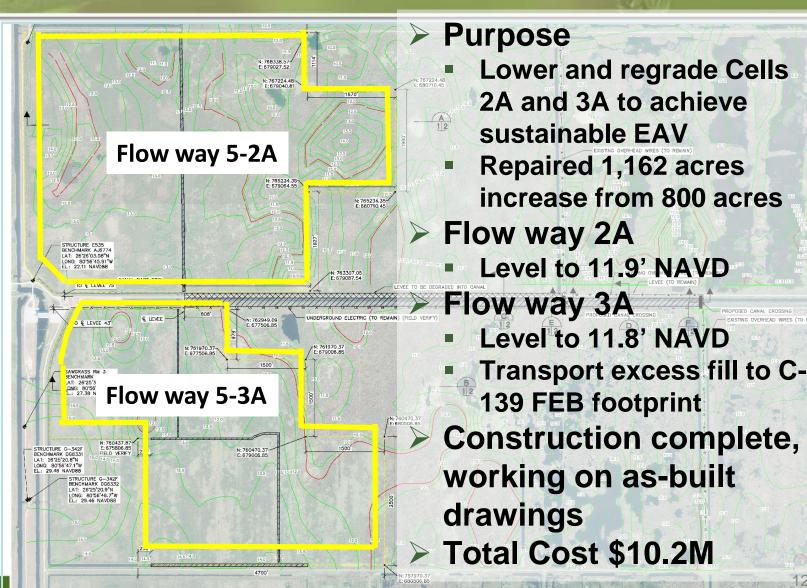
C-139 Flow Equalization Basin

- > Purpose
 - Attenuate high flows into STA-5/6
- > Features
 - 2,800 acres located south of Deer Fence Canal and west of STA-5/6 Flow way 3
 - 11,000 acre-ft shallow impoundment
- > Inflows
 - C-139 Basin Runoff
- Outflows
 - STA-5/6
- Design in progress
 - Corrected Final / RTA Submittal 9/29/20
 - Design Consent Order Deadline 10/31/20

STA-5/6 Earthwork Improvements



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STA-5/6 Earthwork Improvements





Spoil Pile from Cell 3A on C139 FEB Footprint



Questions

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