

Florida Department of Transportation



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Florida's Transportation System



State Roads that Transect ECISMA



District 1

- Alligator
- Tamiami

District 4

- Alligator
- Okeechobee

District 6

- Tamiami

District 8

- Florida's

Priority Plant Species

- **Priority Plants**

- District 1: Brazilian pepper and others...
- District 4: FLEPPC Category I & Aquatic Invasives
- District 6: Cogon grass, Tropical soda apple
- District 8: FLEPPC Category I & Aquatic Invasives



District 1



FDOT-District 1 Invasive Species control

- Task Name: Brazilian Pepper Eradication Program
- Description: Remove Brazilian Pepper from the District's right-of-way along I-75 and I-275 using mechanical control methods
- Objective: Environmental stewardship
- Start Date: December 2007
- Funding: Specific Contract; paid on per acre basis, cost estimate between \$300 and \$1000/acre
- Status: Ongoing; District-1 Secretary's Initiative; managed by District Maintenance Office
- Annual Summary: 700 acres treated since December 2007



Areas “Prior” to Brazilian Pepper Removal



Areas “After” Brazilian Pepper Removal



Areas “Prior” to Brazilian Pepper Removal



Areas "After" Brazilian Pepper Removal



I-75 "After" Brazilian Pepper Removal



2009 Everglades Invasive Species Summit Area "After" Brazilian Pepper Removal w/ Native Species Remaining



2009 Everglades Invasive Species Summit Area "After" Brazilian Pepper Removals w/ Native Replacements During Construction



2009 Everglades Invasive Species Summit

Area "After" Brazilian Pepper Removals w/ Native Replacements During Construction



District 4

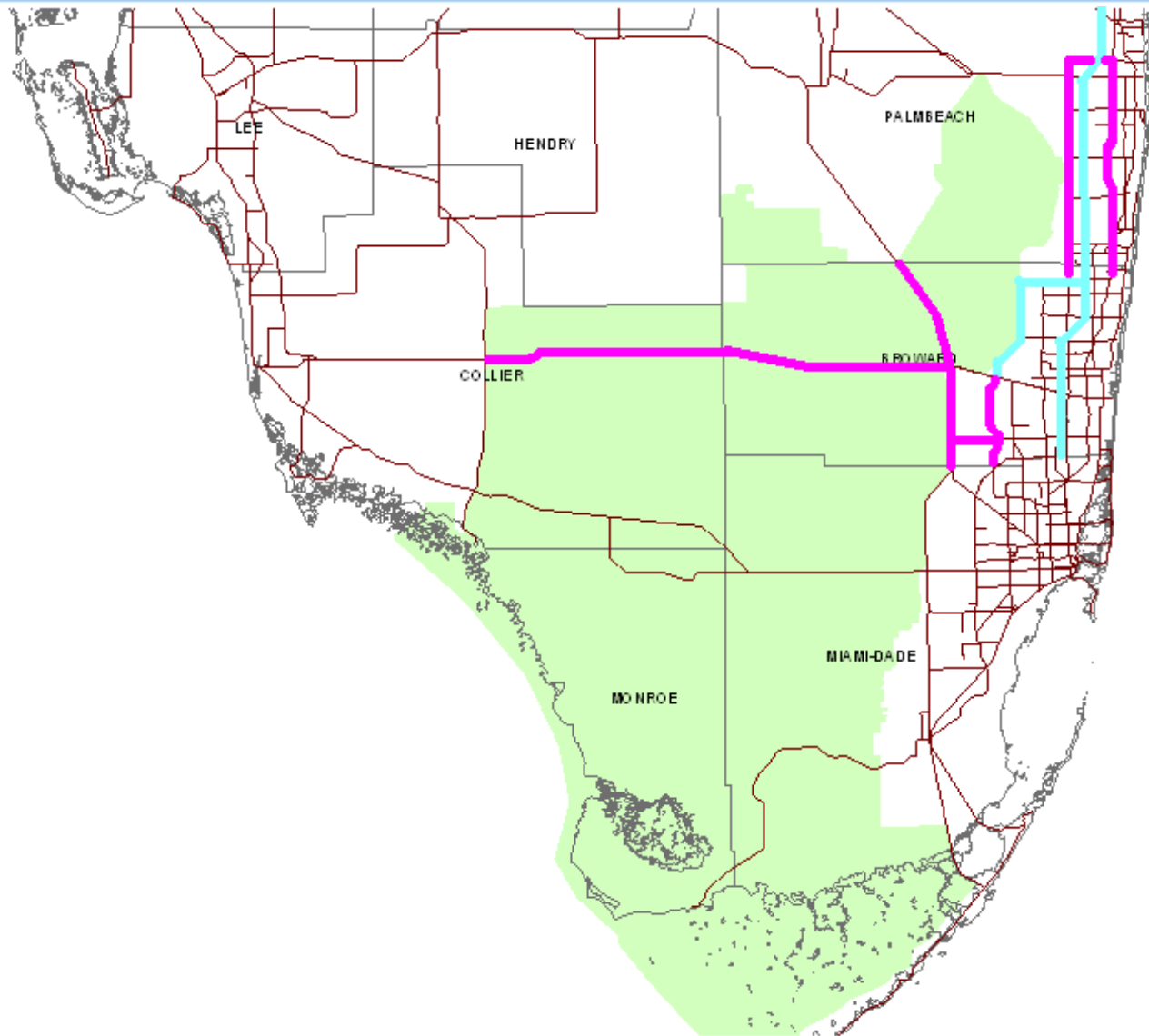


FDOT-District 4 Invasive Species control

- Task Name: Category I Invasive Plant Species Control Program
- Description: Selective clearing of Category I species (usually Brazilian Pepper, Melaleuca, and Australian Pine)
- Objective: Environmental stewardship
- Status: **Responsibility is moving to District-4 Maintenance** (w/ Landscape Architecture Unit recommendations)
- Funding: Will become funded by District Maintenance Office
- Methods: Uncertain how infested areas to be identified and quantified. District Construction will continue to do limited clearing of invasives by roadway contractor (for safety reasons only)
- Maintenance & Monitoring: District Maintenance will manage the Contractors and provide the Monitoring



District 4 and Turnpike Impacts



2009 Everglades Invasive Species Summit

FDOT-District 4 I-95 at SR 76 "Before"

Invasive Species Control



2009 Everglades Invasive Species Summit

FDOT-District 4 I-95 at SR 76 "After"

Invasive Species Control



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2009 Everglades Invasive Species Summit

FDOT-District 4 I-95 at SR 76 "Before"

Invasive Species Control



2009 Everglades Invasive Species Summit


FDOT-District 4 I-95 at SR 76 "After"

Invasive Species Control



Removal Obstacles - High Visibility Sections

- **Port St. Lucie homeowner upset over removal of invasive plant 'buffer' |**

- By Eric Pfahler
- Tuesday, June 30, 2009
-  © 2009 Scripps Treasure Coast Newspapers



FDOT-District 4 US 27 Voluntary Wetlands

- D4 initiated a pilot project for a voluntary wetland on the west side of US 27 (~ 2 miles south of I-75)
- A 1600ft littoral shelf is proposed
- Goal: Restore the historical native vegetation and to minimize maintenance by the elimination of mowing
- 2004 Memorandum of Understanding entered into between FDOT, FDEP and SFWMD which waives the maintenance and monitoring requirement for VOLUNTARY wetland
- Scope entails excavation and re-grading to develop the littoral shelf
- Over 7300 plants are to be installed
- Construction is underway with a completion date of late August



FDOT-District 4 US 27 "Before" Voluntary Wetlands



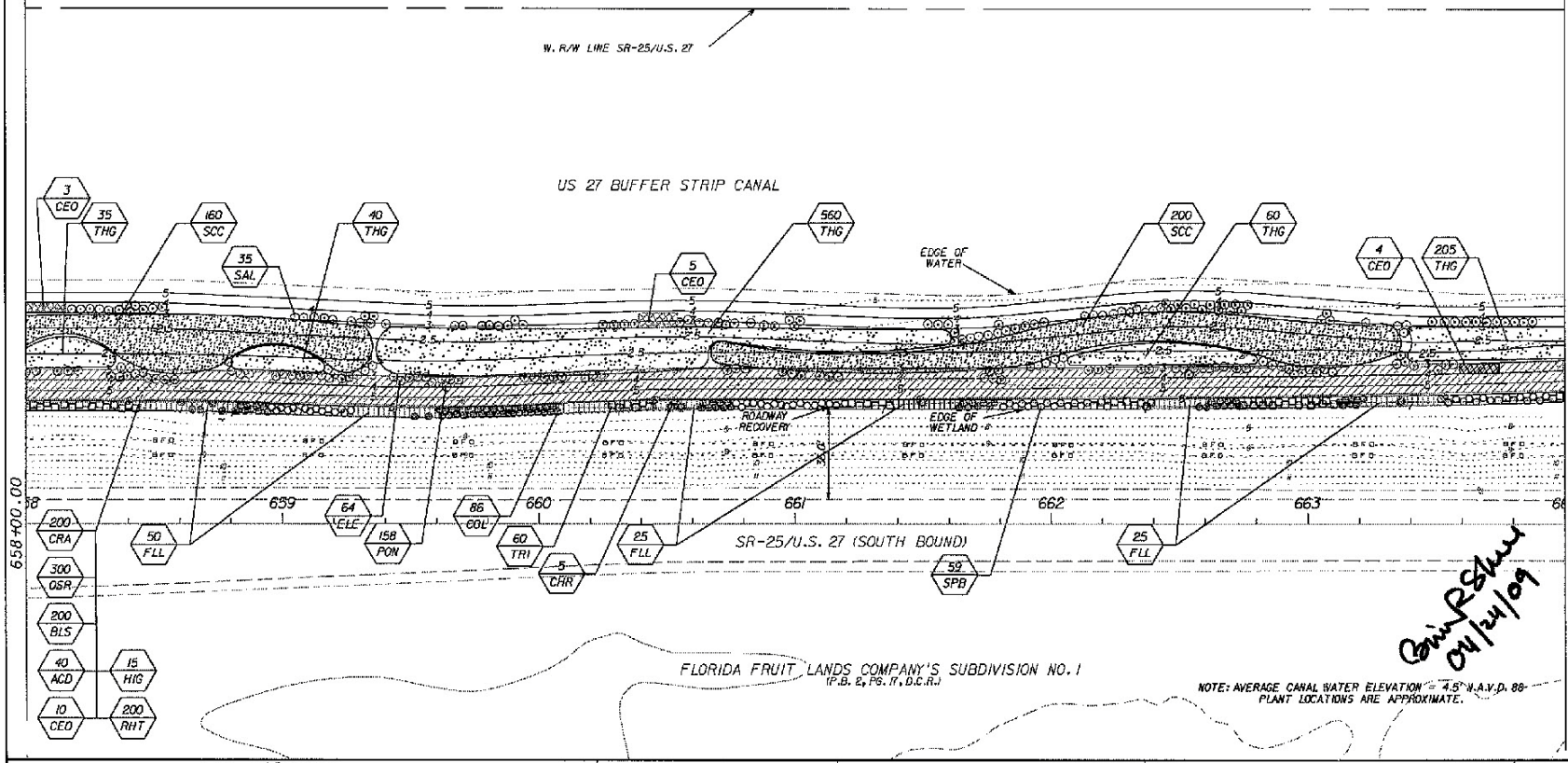
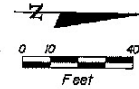
2009 Everglades Invasive Species Summit

FDOT-District 4 US 27 "After" Voluntary Wetlands

NOTES:

1. AVERAGE CANAL WATER ELEVATION = 4.5' N.A.V.D. 88
2. AREA TO BE SEEDED FROM FROM EAST EDGE OF WETLAND (ELEVATION 7.0') TO AVERAGE CANAL WATER (ELEVATION 4.5') ON EAST SIDE OF WETLAND ENHANCEMENT AREA.
3. PLANT LOCATIONS ARE APPROXIMATE, SHRUB AND HERBACEOUS SPECIES TO BE PLANTED UNIFORMLY THROUGHOUT EACH AREA PURSUANT TO THE PLANTING PLAN, BUT SHOULD REFERENCE THE ELEVATIONS SHOWN IN THE PLANTING SCHEDULE.
4. IN AREAS INDICATED WITH MULTIPLE PLANT MATERIAL, RANDOMLY DISTRIBUTE THROUGHOUT AREA. REFER TO NOTE 3.

FLORIDA FRUIT LANDS COMPANY'S SUBDIVISION NO. 1
(P.B. 2, PG. 17, D.C.R.)



Conny R. Shaw
04/24/09

NOTE: AVERAGE CANAL WATER ELEVATION = 4.5' N.A.V.D. 88- PLANT LOCATIONS ARE APPROXIMATE.

REVISIONS	
DATE	DESCRIPTION

MILLER LEGG
1930 North Douglas Road - Suite 200 - Pompano Beach, Florida 33064
354-696-7000 - Fax: 354-696-8884 - www.millerlegg.com
Dist. of Loh-1 (1/10/03) 1.1 & of Everett (04/04) 1.1 & 6/6/07

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	BROWARD	415818-1-52-01

PLANTING PLAN	
	SHEET NO. 21



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60B-1.04, F.A.C. 66-4-100.00

District 6



FDOT-District 6, Right-of-Way Maintenance Program

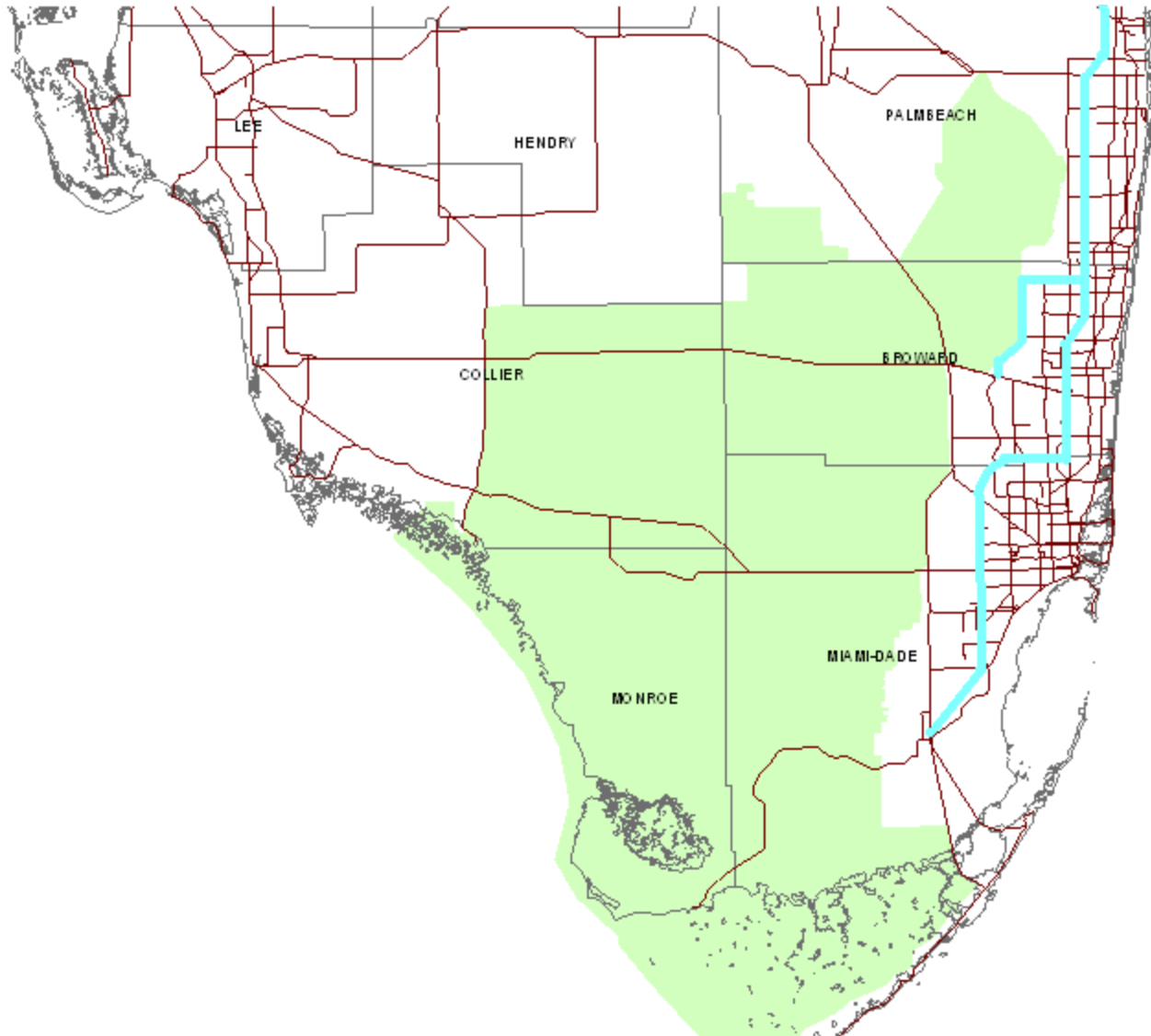
- Task Name: Mowing
- Description: Mowing the right-of-way on State Roads in D-6
- Objective: Maintain a cleared area near the roadway, free of tall vegetation, for safety of the traveling public. Secondary benefits are aesthetics and control of exotic plants.
- Partners: None
- Start/End Dates: Fiscal year 07/08 (from July 1, 2007 – June 30, 2008)
- Status: Ongoing
- Funding (FY): \$1,302,000.00 (*1 million, 302 thousand*)
- Annual Summary: 30,060 acres of mowing completed (this involves repeated mowing over the same area (between 10-24 cycles per year)

FDOT-District 6, Right-of-Way Maintenance Program

- Task Name: Removal of Invasive Woody Vegetation on I-75
- Objective: Control spread of woody invasive exotic vegetation along I-75 in North Dade County
- Partners: None
- Start/End Dates: Fiscal year 07/08 (from July 1, 2007 – June 30, 2008)
- Status: Complete?
- Funding (FY): \$104,000.00
- Annual Summary: 25 acres of vegetation removed -- consisting of 85% melaleuca, 10% Brazilian pepper, 5% Australian pine



District 8 (Florida's Turnpike)



History/Background

- **1989** Florida's Turnpike began an aggressive program to remove Brazilian pepper and Melaleuca from its roadsides in Miami-Dade and Broward Counties
- **1992** after Hurricane Andrew, it took on Australian pines
- **2008-2009** ~\$980,000 was spent in ongoing control efforts in South Florida



Priority Plant Species

- **Priority Plants**

- Lygodium, water hyacinth, cattail, melaleuca, tropical soda apple, Brazilian pepper, Australian pine, ficus, earleaf acacia, cogongrass, Burma reed

- **Newly Detected Plant Species**

- Guava (*psidium guajava*) in St. Lucie, Okeechobee and Indian River Counties. Problematic to Florida's citrus industry



Priority Animal Species

- **Priority Animals**

- Florida's Turnpike does not control animal species

- **Newly Detected Animal Species**

- N/A



Invasive Species Programs

Turnpike's Removal of Aquatic Growth Program

- Description
 - Removal of floating and submerged weeds using chemical and mechanical control
- Objective
 - Keep ditches, ponds and stormwater facilities free of nuisance vegetation and excessive biomass for proper functioning. Also treat mitigation sites for permit compliance. 3-4 cycles per year.
- Start/End Dates
 - On-going
- Status
 - Assigned
- Funding (FY): \$27,300.00
- Annual Summary
 - 97 acres treated and/or removed



Invasive Species Programs

Turnpike's Removal of Woody Nuisance Trees & Brush

- Description
 - Mechanical removal of previously listed trees & shrubs
- Objective
 - Keep roadsides free of nuisance vegetation. Remove large invasive trees to prevent spread & keep roadway open in the event of strong storms. Remove (mostly) Brazilian pepper from ditch banks for proper storage of stormwater
- Start/End Dates
 - On-going
- Status
 - Assigned
- Funding (FY): \$253,800.00
- Annual Summary
 - 322 freestanding trees removed & 28 acres cleared



Invasive Species Programs

Turnpike's Chemical Control of Nuisance Vegetation

- Description
 - Control of nuisance grasses, forbs and vines from fencelines, ditch banks and uplands using chemical control.
- Objective
 - Keep ditches, fences, bridge slopes and R/E walls free of nuisance vegetation for aesthetic purposes and prevention of spread of nuisance species. 3-4 cycles per year.
- Start/End Dates
 - On-going
- Status
 - Assigned
- Funding (FY): \$28,823.00
- Annual Summary
 - 18,471,184 square feet treated



Invasive Species Programs

Turnpike's Removal of Lygodium Program

- Description
 - Removal of both Old World and Japanese Climbing Fern, using chemical and mechanical control.
- Objective
 - Save existing native vegetation and prevent spread of lygodium from Turnpike right of way to adjacent properties. Lygodium is ubiquitous from northern Palm Beach County to Central Osceola County, as well as spotty sites in Broward County
- Start/End Dates
 - On-going
- Status
 - Assigned
- Funding (FY): \$197,100.00
- Annual Summary
 - 4 treatment cycles per year to all infested areas on Turnpike right of way (lump sum)



Invasive Species Programs

Turnpike's Landscape Maintenance Program

- Description
 - Chemical and mechanical control of weeds and nuisance vegetation from landscape beds and tree rings, as well as other maintenance activities.
- Objective
 - Maintain an attractive and weed-free appearance of hedges, landscape beds and naturalized wooded areas. 3 cycles per year.
- Start/End Dates
 - On-going
- Status
 - Assigned
- Funding (FY): \$472,004.00
- Annual Summary
 - 430 acres



Initial Contact Information

- **District 1 – Bartow**
Maintenance Office: 863-519-2314
- **District 4 – Ft. Lauderdale**
Environment Office: 954-777-4325
Maintenance Office: 954-777-4202
- **District 6 – Miami**
Environment Office: 305-470-5220
S. Dade Maint. Office: 305-256-6330
- **District 8 (Turnpike)**
Maintenance Office: 954-934-1211

