

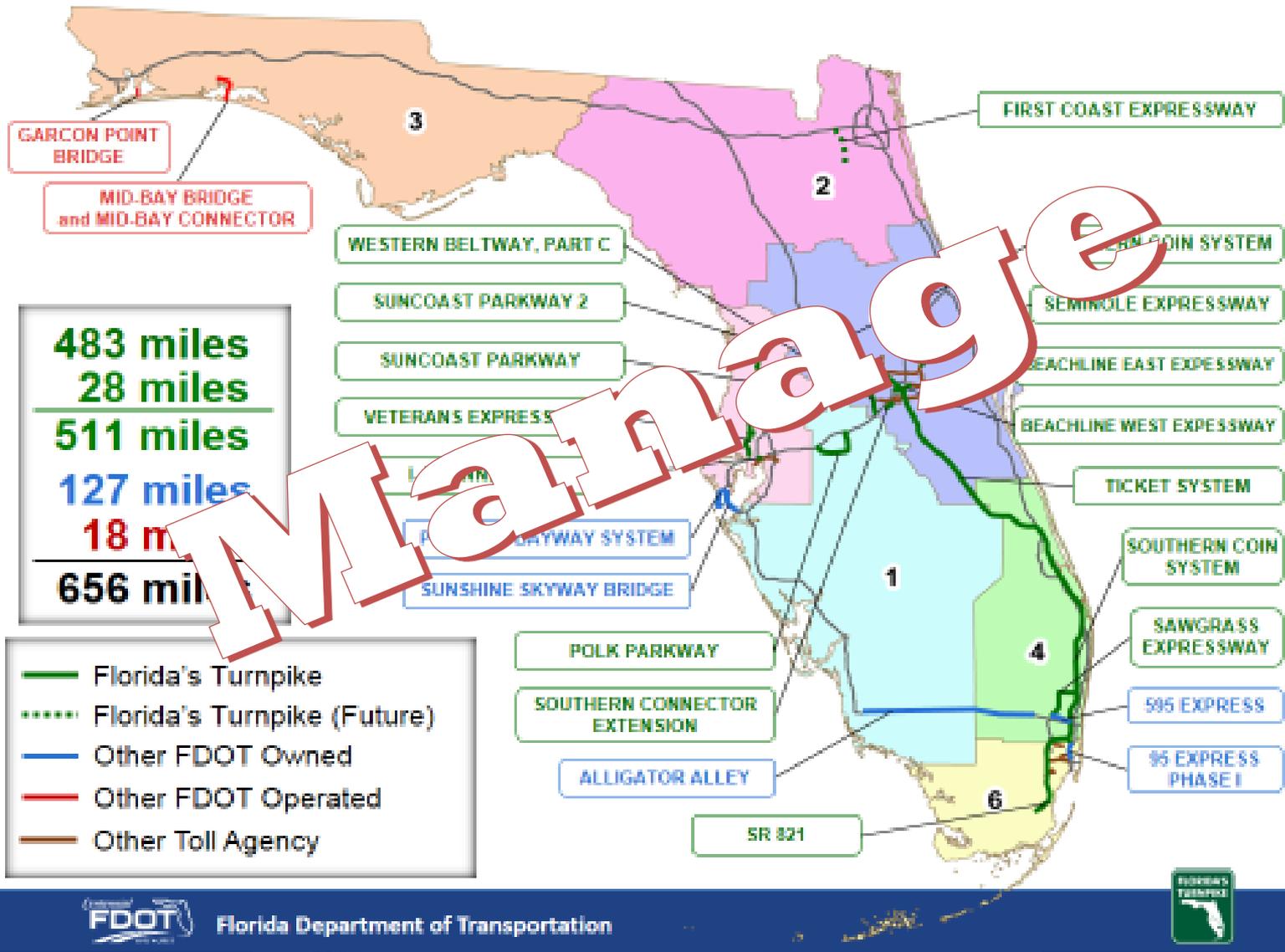


Florida Department of
TRANSPORTATION

GIS Property Management Applications

Chad Marcus, HNTB Project Manager
Karen Schaack, Turnpike Deputy RW Manager
Florida's Turnpike Enterprise Right of Way Office

Introduction



Responsibilities



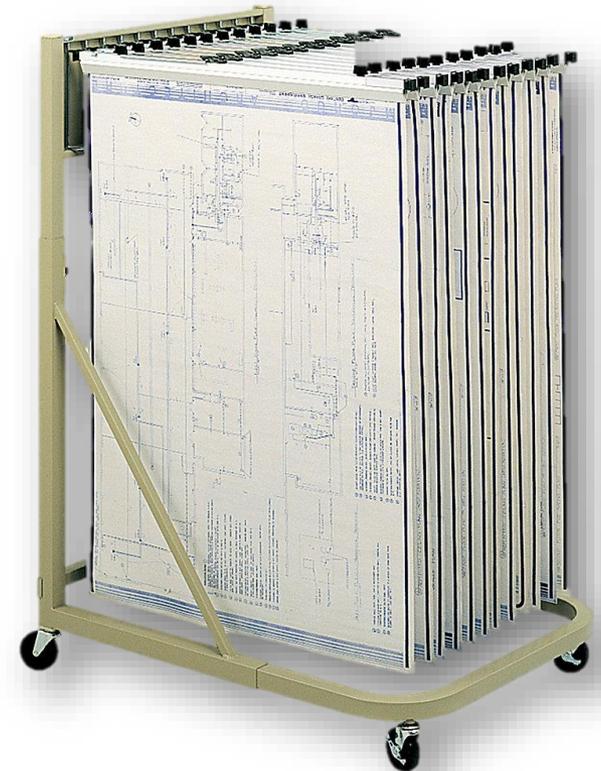
Responsibilities

- Maintain accurate inventory of properties
- Regularly inspect properties
- Resolve encroachments or other issues
- Evaluate properties for surplus
- Sell/Lease surplus properties



Current Practice Evaluation

- Tools and Processes
- Customer Response Time
- Reactive not Proactive



New Solutions/Challenges

- Needs to be able to work with RWMS (Statewide Right of Way Application)
- Minimal time and resources to implement
 - Very small Right of Way staff
 - Shared GIS staff

Right of Way Management System

R/W Project Construction Project

Enter Item/Segment Number:

Enter Parcel Number:



Why GIS?

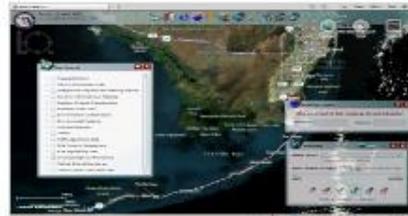
- Maps are a universal language
- They orient and guide
- They provide sense of scale and distance
- They are accessible to people from different personal and professional backgrounds



Implementation

Application was adopted from District Six's GIS Asset Management Application.

- Works with RWMS
- No software costs and immediately available



D6 Enterprise GIS Web Viewer



FDOT GEV Framework Viewer



R/W Property Management Application



Environmental Permit Tool

Turnpike Base Map Layers

FLORIDA'S TURNPIKE Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

First Road North Toll Gantry
SW 56th St

- Turnpike Mile Post
- Turnpike Interchanges
- Turnpike Toll Plazas
- Turnpike Service Plazas
- Turnpike Facilities

The map displays the Turnpike corridor from mile post 16 to 22. Key features include:
- Mile posts 16, 17, 18, 19, 20, 21, and 22 marked along the route.
- Interchanges at SW 117th Ave, SW 122nd Ave, and SW 127th Ave.
- Toll plazas at Snapper Creek and Don Shula Expwy. (S.R. 874).
- Service plazas at Kendall Dr. (SW 88th St.) and Coral Reef Dr. (SW 152nd St. & SW 117th Ave).
- Landmarks such as Miccosukee Golf and Country Club, Kendall Lakes, and Killian Greens Golf Club.

Property Management Layers

FLORIDA'S TURNPIKE
Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

Map Content

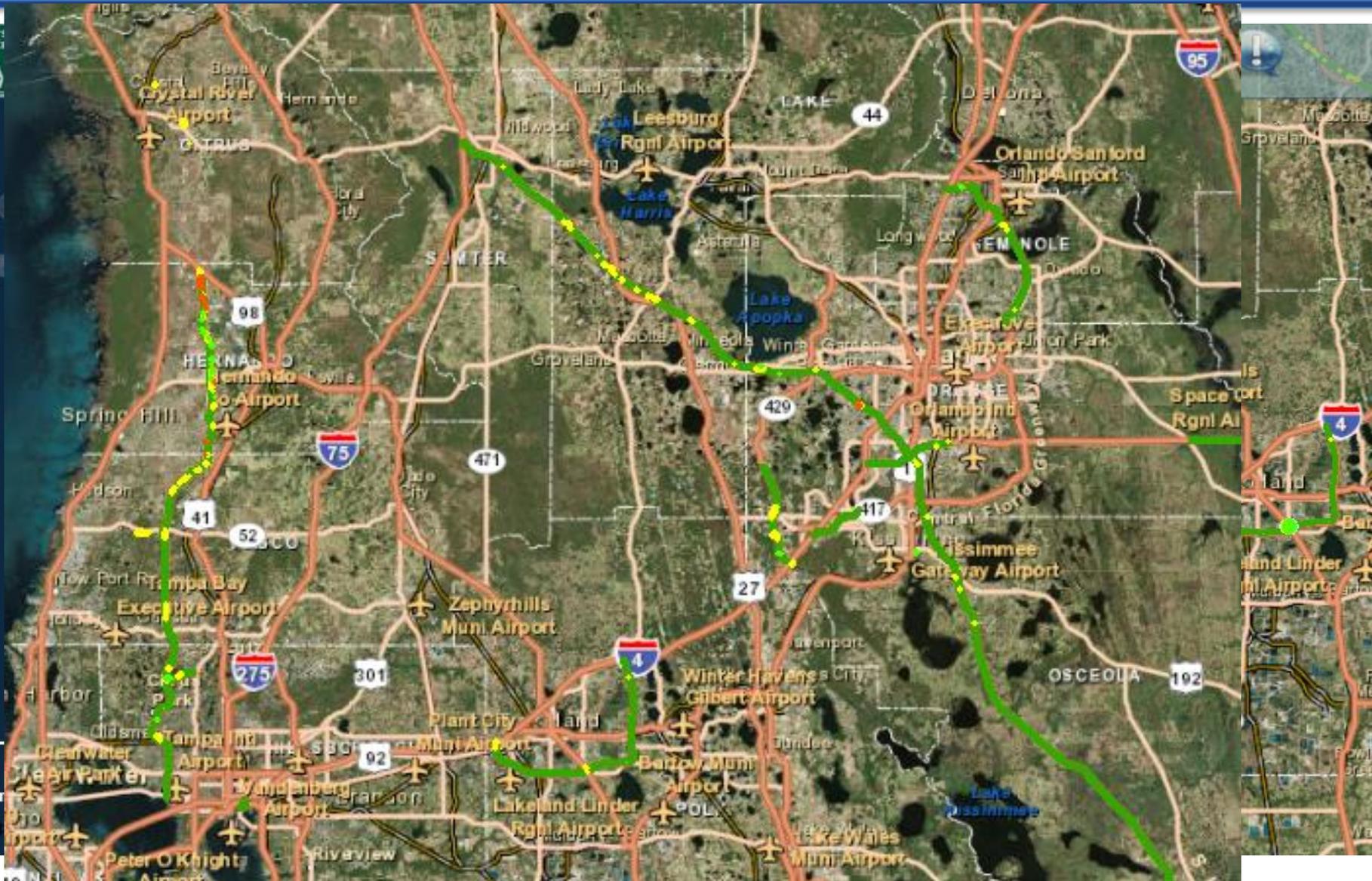
- R/W Property Management
- Excess Locator
 - Identified
 - Leased
- Surplus Locator
 - Surplus

Legend

- Excess Parcels
- Declared Surplus Parcels
- Under Surplus Consideration

Map Disclaimer

Property Management Layers



Parcel Map Layers

FLORIDA'S TURNPIKE Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

Map Content

- Parcels
- Brevard County
- Broward County
- Citrus County
- Clay County
- Duval County
- Hernando**
- Miami Dade County
- Okeechobee County
- Orange County

Parcels
EICK LESTER J

PARCEL_ID:	R03 422 18 0000 0080 0000
ASMNT_YR:	2014
AV_SD:	108522
AV_NSD:	108522
LND_VAL:	38500
EFF_YR_BLT:	1999
ACT_YR_BLT:	1999
TOT_LVG_AR:	4068
NO_BULDNG:	2
SALE_PRC1:	0
SALE_YR1:	0
SALE_MO1:	0
SALE_PRC2:	0
SALE_YR2:	0
SALE_MO2:	0
OWN_NAME:	EICK LESTER J III, EICK TERESA
OWN_ADDR1:	14452 BAILEY HILL RD
OWN_ADDR2:	
OWN_CITY:	BROOKVILLE

Query Tool



Identification Tool

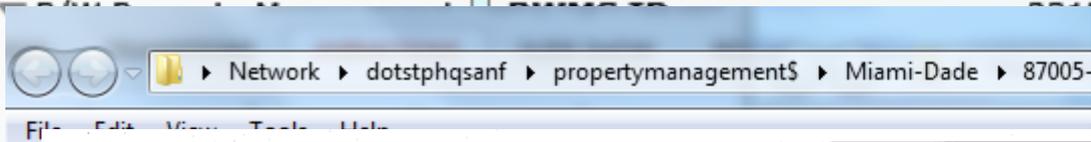
FLORIDA'S TURNPIKE Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

▼ R/W Property Management (Excess Parcels)
2312
▼ Parcels
STATE OF FLORIDA D O T

RWMS ID:	2312
PARCEL NAME:	214
PROJECT NAME:	7152004 or 2589061
FILE LINK:	View Document(s)
PIN:	n/a
FILE NAME:	n/a
ROW MAP ID:	97080-2302 sheet 5, 33, 34, 57 of 88
MAP LINK:	View Document(s)
LOCATION:	SUNCOAST PARKWAY MP 50.5 SB
ACRES:	2.74
OWNER:	Douglas Chovat
DEED OR FINAL JUDGEMENT:	F
DATE RECORDED:	04/30/99
PLSS_S_T_R:	27-21-18
FPID:	258906-1
EXCESS STATUS:	IDENTIFY
EX_STU_DAT:	1/1/1975
CHUDDI IC STATUS:	DECI SIID

Contact Administrator
Map Disclaimer

Identification Tool



ORIGINAL

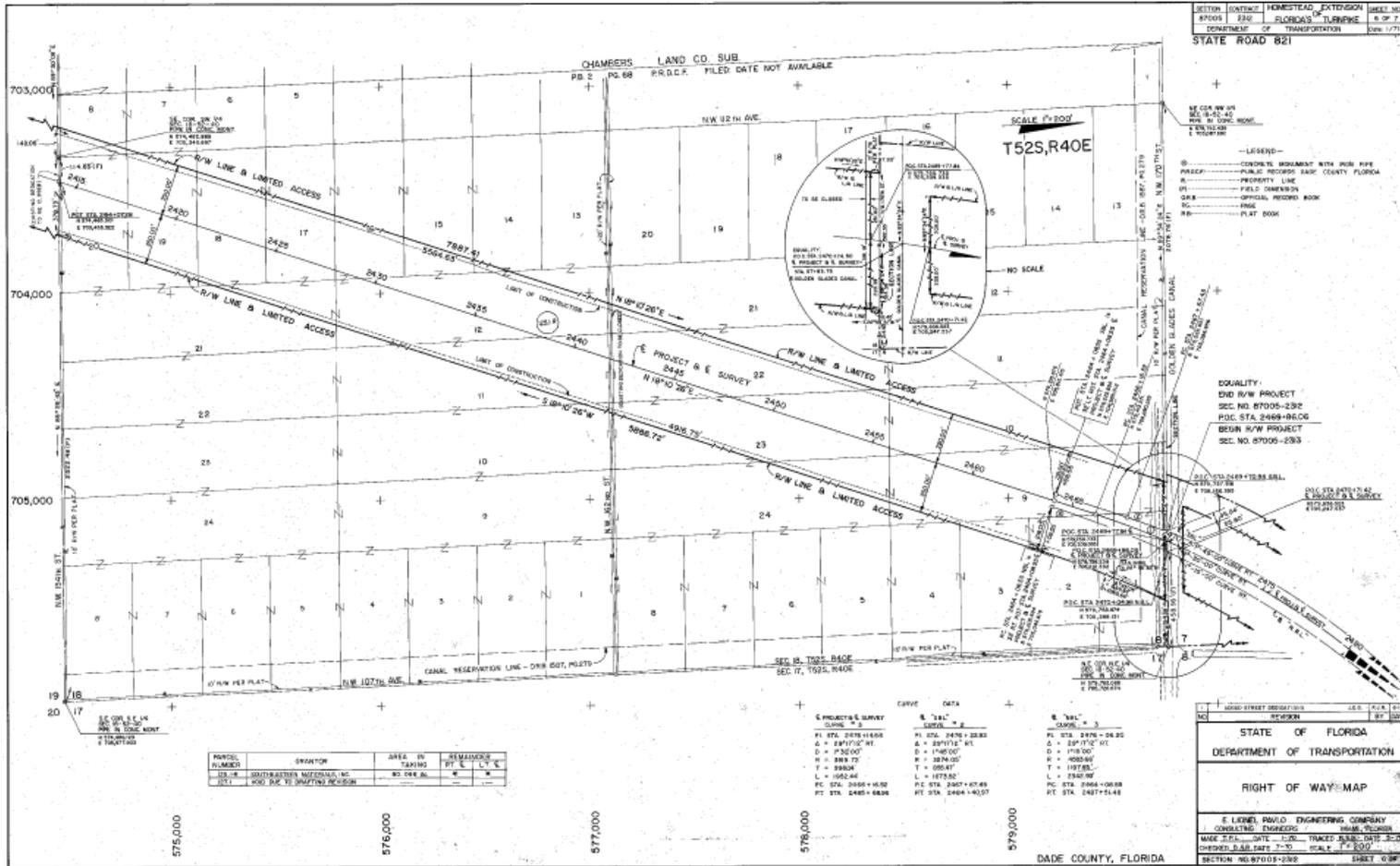
87005-2312

IN THE CIRCUIT COURT OF THE ELEVENTH JUDICIAL CIRCUIT, IN AND FOR DADE COUNTY, FLORIDA

CIVIL ACTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, By and Through its Divisions of Administration and Road Operations, and agency of the State of Florida,)
)
)

FILED RECORD
71 APR 19 AM 2:39
CLERK OF CIRCUIT COURT
DADE CO. FLORIDA



-15242 (Judge Parker)

re me upon joint
by the Plaintiff,
, By and Through
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FRANK DOMSY and
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that the compen-
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, it is upon con-
dents, FRANK DOMSY
on the Plaintiff,
, By and Through
ations, and agency
THOUSAND EIGHT
for the property

read this map on APR 19 2011
local Court Minute Book and Page across bottom

E. B. LEATHERMAN
Civil Engineer
By: [Signature]
Deputy Clerk

Bookmark Tool

FLORIDA'S TURNPIKE Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

Bookmarks

- FTE HEADQUARTER
- MARION COUNTY
- Chic Fil A
- Sunrise Blvd Soundwall Issue
- KRMC

Map Disclaimer

Comment Tool

FLORIDA'S TURNPIKE Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

Map Content

Comments Journal

Comments Journal

NAME Karen Schaack

DEPARTMENT ROW

DATE_ 6/4/2015 12:00:00 AM

COMMENTS Sandy Molan with Hope Lutheran called to discuss noise and con

Ok Delete

Measure Tool

FLORIDA'S TURNPIKE Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

Imagery

Turkey Lake Park

Phillips Ponds

Ronald Reagan Tpke/Florida's Tpke

100m
400ft

Contact Administrator
Map Disclaimer

Under Surplus Consideration
 Turnpike Base Map

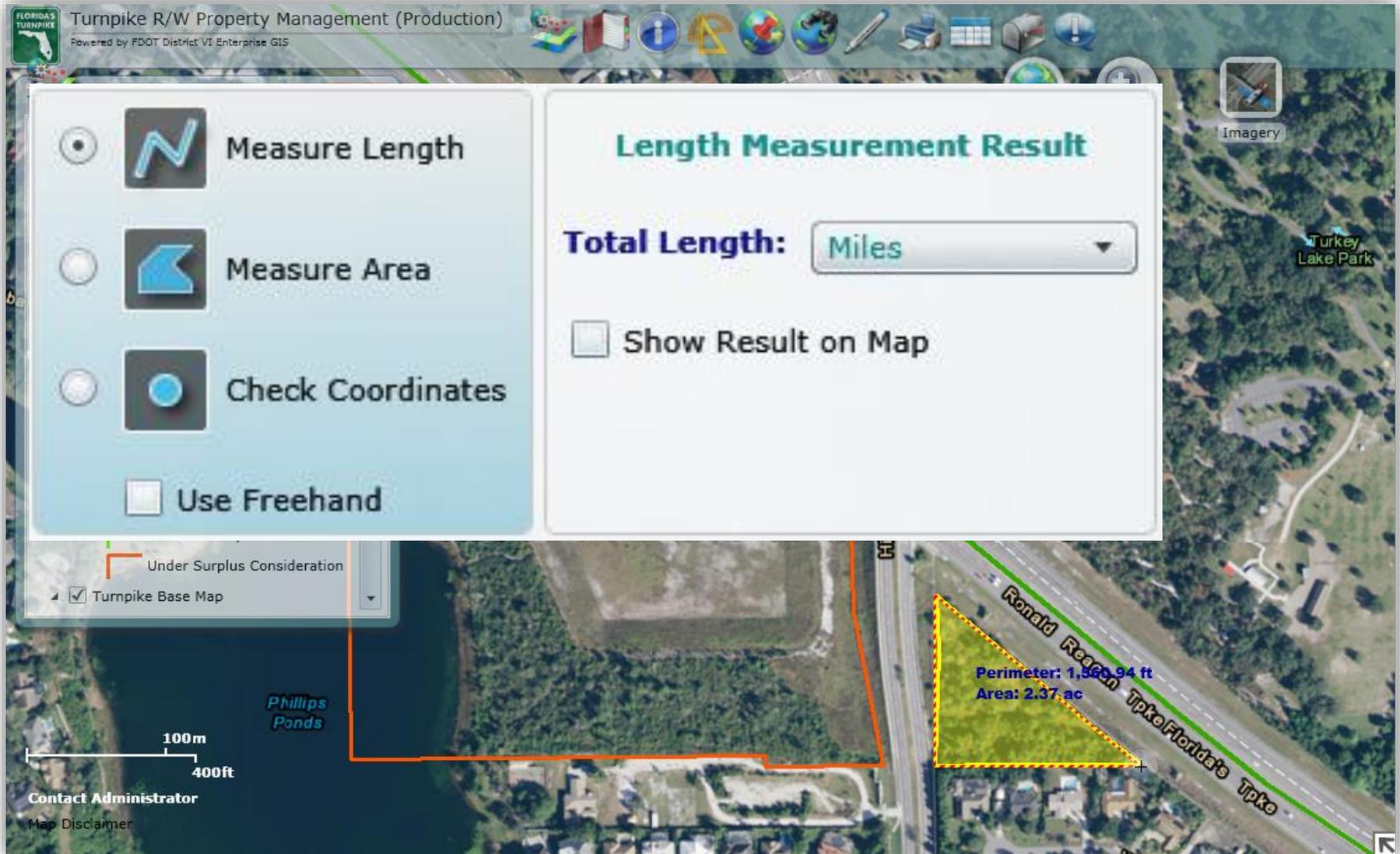
Measure Length
 Measure Area
 Check Coordinates
 Use Freehand

Length Measurement Result

Total Length: Miles

Show Result on Map

Perimeter: 1,900.94 ft
Area: 2.37 ac



Address Lookup Tool

FLORIDA'S TURNPIKE Turnpike R/W Property Management (Production)
Powered by FDOT District VI Enterprise GIS

Map Content

- R/W Property
 - Excess Lots
 - Identified
 - Leased
 - Surplus Lots
 - Surplus
 - Surplus
 - Surplus Temporary
 - Surplus Denied
 - Surplus Denied Temporary
 - Excess Parcels
 - Excess Parcels
 - Declared Surplus Parcels
 - Under Surplus Consideration
 - Turnpike Base Map

Locate By: Address Coordinates

Please input an address (e.g. 100 Main St, Redlands, CA 92373)

Address:

Locate

Mailing Address Tool

The screenshot displays the 'Mailing Address' tool interface. At the top, a map shows a residential area with a red dashed box highlighting a specific property. The map is titled 'Turnpike R/W Property Management (Production)' and is powered by 'FDOT District VI Enterprise GIS'. A 'Map Content' panel on the left shows 'R/W Property Management' and 'Excess Locator' as active layers. The main panel, titled 'Mailing Address', contains a list of property owners and a corresponding data table.

Map Content:

- R/W Property Management
- Excess Locator

Mailing Address Data:

Property Owner	OWN_NAME	OWN_ADDR1	OWN_ADDR2	OWN_CITY	OWN_ZIPCD
LE TUYEN THANH	LE TUYEN THANH				
POSTIGLIONE AUGUST & CUOMO JOSEPH TRUSTEE					
KIMURA SAM M & MARY M					
BOODOO DAVANAND & KISSUNDAI					
CAREY MARJORIE & GLENMORE					
MARSHALL PETER F & JEANNE E					
MAC MILLAN RONALD J TRUSTEE &					

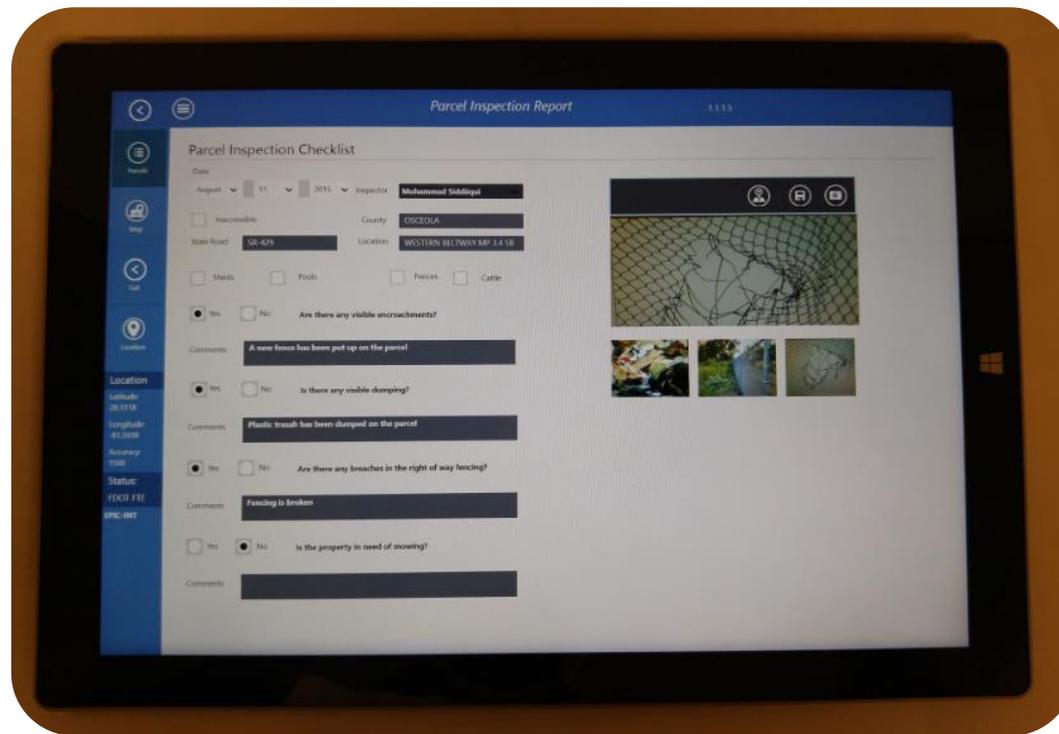
Export

GIS Tools = Time and Money Savings



Mobile Parcel Inspection Application

- Application created by Turnpike staff
- Used on a tablet or phone in the field
- No software costs



Mobile Parcel Inspection Application

004 004
Parcel Inspection
1.1.1.4



Parcels

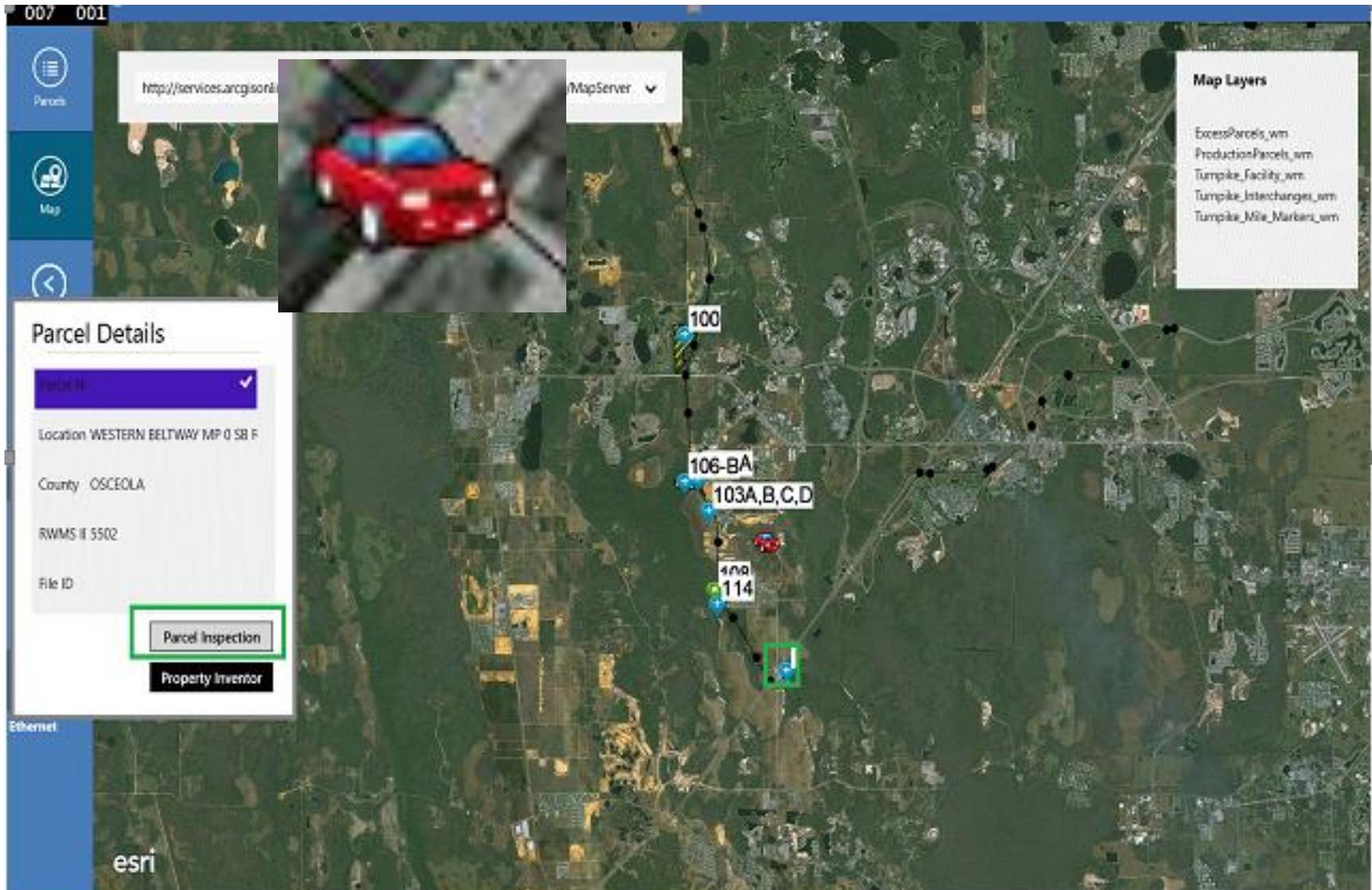
Parcel Type **All** Projects **All**

RWMS	Parcel I	Parcel I Location	County	ROW Map	Lat	Lon	Distance	Parcel Type	Inspection R	Property Inv	Surplus Revi
1295	343B	Mainline MP 113 NB	BROWARD	10444 sheet 14 of 28	26.30911	-80.168073	5614.81	Production			
0	2.2-10C	Mainline MP 71.8 SB	BROWARD	86470-2.2 sheet 6 of 10	26.308927	-80.170444	5615.03	Production			
0	3.3-31A	Mainline MP 99 SB	PALM BEACH		26.698171	-80.152408	5615.99	Production			
0	3.1-17	Mainline MP 83 NB	PALM BEACH		26.472108	-80.172644	5616.03	Production			
1261	3.3-25C	Mainline MP 98.5 SB	PALM BEACH		26.691878	-80.157483	5616.27	Production			
1509	3.3-25D	Mainline MP 98.5 SB	PALM BEACH		26.691772	-80.157953	5616.3	Production			
1681	339C	SAWGRASS EXPRESSWAY MP 19 EB	BROWARD	10444 sheet 4 of 28	26.299252	-80.195643	5616.53	Production			
1680	338B	SAWGRASS EXPRESSWAY MP 18.9 WB	BROWARD	10444 sheet 4 of 28	26.300701	-80.198595	5616.72	Production			
0	337A	SAWGRASS EXPRESSWAY MP 18.8 EB	BROWARD	10444 sheet 18, 27 of 28	26.297554	-80.201149	5616.86	Production			
4056		Mainline MP 93 SB	PALM BEACH		26.6113	-80.175829	5616.97	Production			
4055		Mainline MP 93 SB	PALM BEACH		26.613095	-80.176296	5617.01	Production			
4028		Mainline MP 93 SB	PALM BEACH		26.614536	-80.176698	5617.04	Production			
3885		Mainline MP 93 SB	PALM BEACH		26.616236	-80.176703	5617.05	Production			
1679	306B	SAWGRASS EXPRESSWAY MP 18.3 WB	BROWARD	10444 sheet 4 of 28	26.302146	-80.20537	5617.15	Production			

Mobile Parcel Inspection Application

The screenshot displays a mobile application interface for parcel inspection. The main area is a satellite map with a black dotted line path and various parcel markers labeled with alphanumeric codes such as 12.4-9X, 12.3-5, 11.5-39-B, 11.4-21, 11.2-5A, 11.2-6, 11.1-9A, 11.1-1R, 10.6-5R2, 10.5-90, 10.5-1, 106-B, B,C,D, 114, 100, 111.1R, 1135.1-R, 122, and 129. A sidebar on the left contains navigation icons: 'Parcels' (top), 'Map' (circled in red), 'Exit', and 'Location'. Below the 'Location' icon, the current location is displayed: Latitude: 28.3118, Longitude: -81.5938, Accuracy: 1500, Status: FDOT FTE, and Ethernet. A 'Map Layers' panel on the right lists: 'ExcessParcels_wm', 'ProductionParcels_wm', 'Turnpike_Facility_wm', 'Turnpike_Interchanges_wm', and 'Turnpike_Mile_Markers_wm'. At the top left, the text '002 002' is visible. A URL bar at the top shows 'http://services.arcgisonline.com/arcgis/rest/services/ESRI_Imagery_World_2D/MapServer'. The Esri logo is in the bottom left corner of the map area.

Mobile Parcel Inspection Application



Mobile Parcel Inspection Application

004 002

Parcel Inspection Report

1.1.1.4



Parcels



Map



Exit



Location

Location

Latitude:
28.3118

Longitude:
-81.5938

Accuracy:
1500

Status:

FDOT FTE

Ethernet

Parcel Inspection Checklist

Date

January 16 2015 Inspector **Mohammad Siddiqui**

Inaccessible County **BROWARD**

State Road **SR-869** Location **Mainline MP 71.8 NB**

Sheds Pools Fences Cattle

Yes No **Are there any visible encroachments?**

Comments

Yes No **Is there any visible dumping?**

Comments

Yes No **Are there any breaches in the right of way fencing?**

Comments

Yes No **Is the property in need of mowing?**

Comments



Mobile Parcel Inspection Application

001 002

Production Parcel Property Inventory

Production parcels inspection Check List

FPID: TestID1830
Address: TestID1830
Date of Inventory: 6/22/2015 5:46:31 AM
City: TestID1830
Key Provided: YES NO
State: TestID1830 ZIP Code: TestID1830
Received Date: June 22 2015
Received by: TestID1830

Utilities

Electric Co. and Metter No: TestID1830
Gas Co. and Metter No: TestID1830
Water Co. and Metter No: TestID1830
Bottle Gas Co. No: TestID1830
Telephone Co.: TestID1830
Sewer Co.: TestID1830
Septic: TestID1830

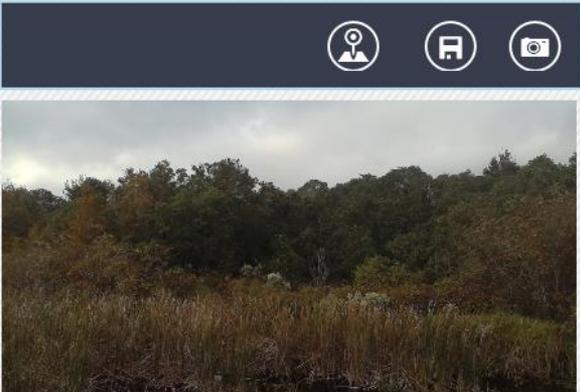
Structures

Number of Structures: 1 None
Improvement Type: 0
Size: Test Condition: Test Disposition: Test

Details

Story: 0 BR: 0 BA: 0 CB: 0

Parcels
Map
Exit
Location
Latitude: 28.3118
Longitude: -81.5938
Accuracy: 1500
Status:
FDOT FTE
Ethernet



Future GIS Initiatives

- Add Production Data Layer
- Add Current/Future Design Project Alignments Layer
- Add Surplus Parcel review tracking/comments to mobile app database/link to GIS
- Add RW Map Layer in GIS
- Public version of our GIS site to assist with marketing excess/surplus properties

Success

Success of Implementing GIS

- Use of GIS has drastically reduced time to respond to public requests/inquiries
- Streamlined process for parcel inspections
- Greatly assisted surplus parcel reviewers in decision-making

Closing

- "GIS offers opportunities to **streamline** agency business processes through **visualizing, sharing, analyzing, and monitoring** asset data in ways that would not be possible with strictly numerical data."
- "GIS, when applied to asset management, can **simplify data sharing, improve data access, support proactive asset management and increase informed decision-making.**"

"BEST PRACTICES IN GEOGRAPHIC INFORMATION SYSTEMS-BASED TRANSPORTATION ASSET MANAGEMENT", Prepared by :Program and Organizational Performance Division, John A. Volpe National Transportation Systems Center and Research and Innovative Technology Administration, U.S. Department of Transportation

Questions

???