



Florida Department of  
**TRANSPORTATION**

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# **Krome Avenue Corridor Safety Improvement Projects**

**SR 5/US-1 to SR 25/US 27/Okeechobee Road**

**2016 FDOT Design Training Expo**

**June 14, 2016**

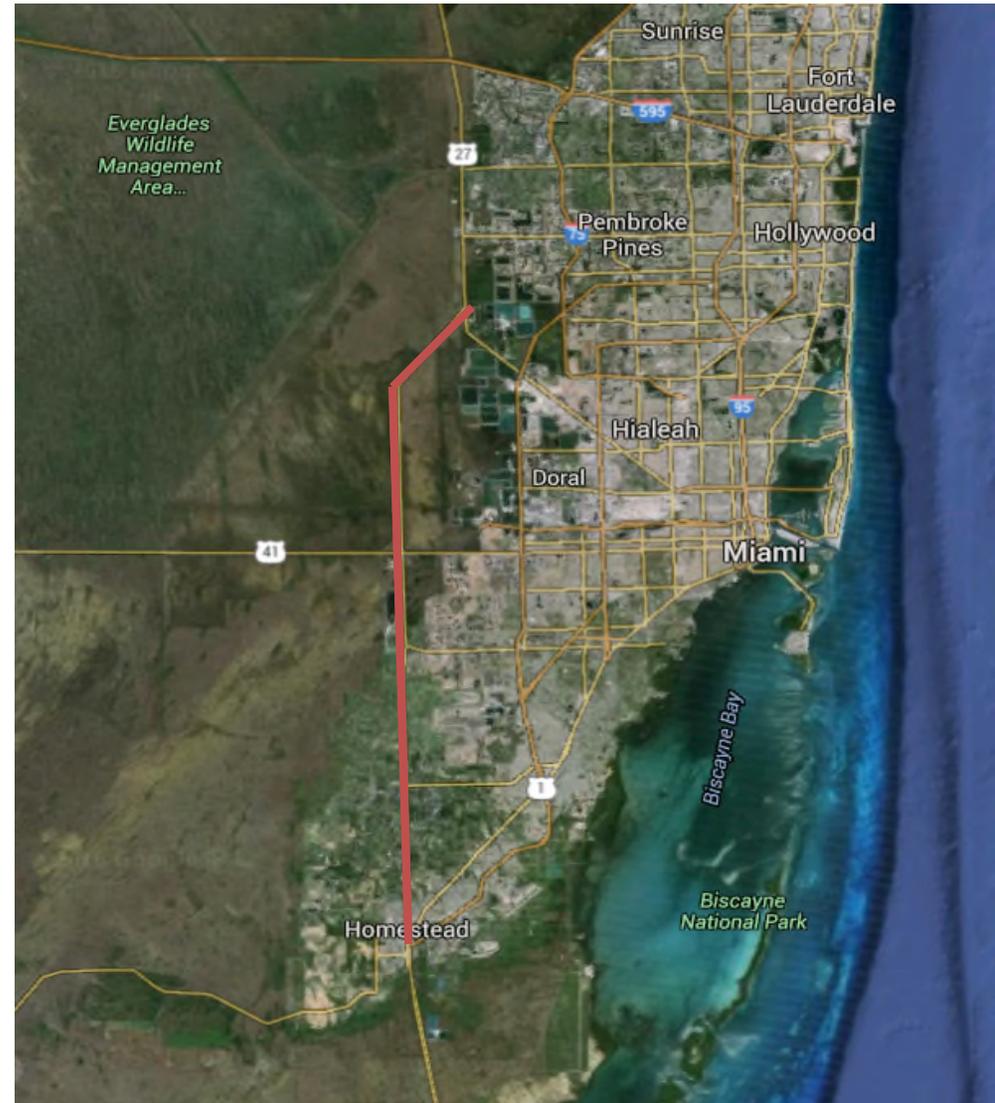
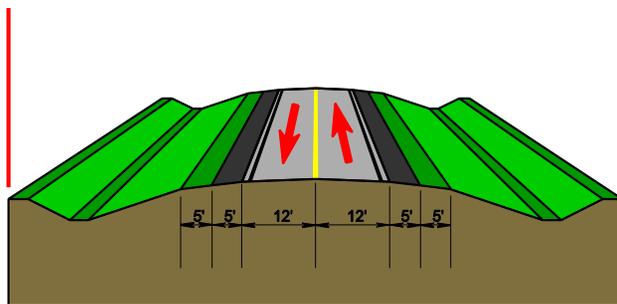
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# Krome Avenue Project



Krome Avenue/SR 997/SW 177 Avenue that extends between SR 5/US 1/Dixie Highway to SR 25/US 27/Okeechobee [36.71 mile long north-south principal arterial in western Miami-Dade County]. It is an important route for hurricane evacuation and post-disaster recovery.



# Krome Avenue Project

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## Purpose of the Project

- Address SAFETY and operational needs
- Address design deficiencies
- Improve regional connectivity
- Accommodate future travel demand/mobility

**2014, MPO passed Resolution # 19-14 to expedite Krome Avenue improvement projects.**

# Krome Avenue Project



## Krome Interim Projects

### Project Location

SW 168 Street to SW 136 Street: FPID: 434930-1  
SW 184 Street to SW 168 Street: FPID: 434930-3  
SW 216 Street to SW 192 Street: FPID: 434930-4  
SW 268 Street to SW 256 Street: FPID: 434930-2  
SW 288 Street to SW 272 Street: FPID: 434930-5  
*Construction schedule May 2015 – October 2015*

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SW 297 Street to SW 8 Street: FPID: 436357-1  
*Construction completed in May 2015*

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MP 3.827 to MP 17.341: FPID: 435842-1  
*Construction began May 2015 – October 2015*

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SW 256 Street to SW 216 Street: FPID: 434930-6  
*Construction to begin July 2016*

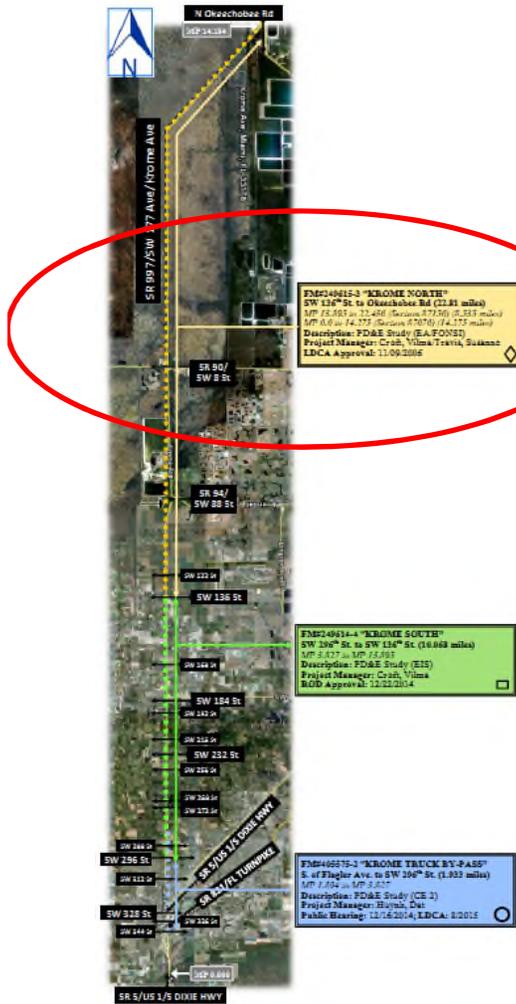
### Work Performed

- Installing lighting at signalized intersections
- Installing plastic poles throughout the corridor between northbound and southbound travel lanes
- Installing warning signs
- Installing vibratory pavement striping
- Installing speed limit pavement messages
- Upgrading signage
- Repaving and restriping the road
- Widening and repaving shoulders

# Krome Avenue Project



## Project Segment



**Krome North**  
(SW 136 Street to Okeechobee Road)

**Krome South**  
(SW 296 Street to SW 136 Street)

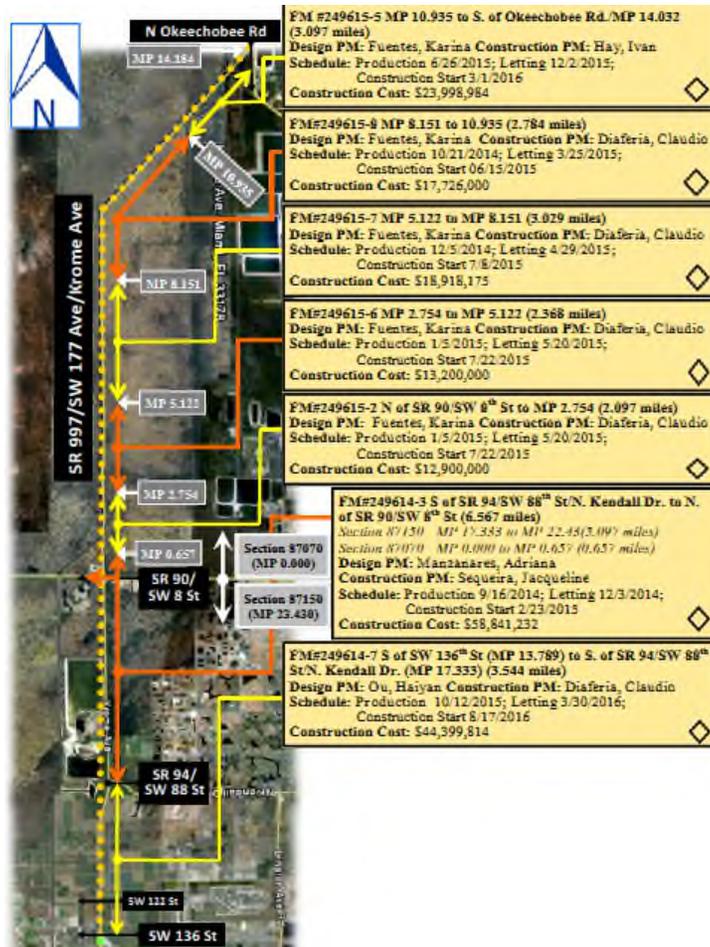
**Krome Truck By-Pass**  
(SW 344 Street/Palm Drive to SW 296 Street)



# Krome Avenue Project



## Krome North



### Project Location

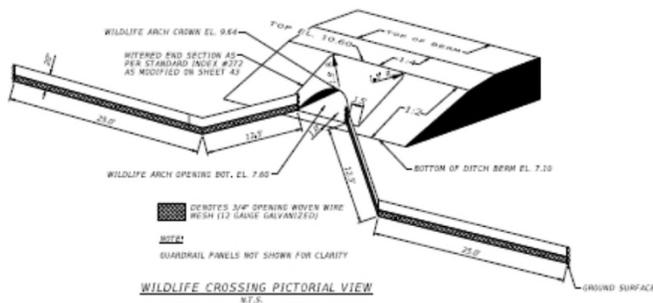
- M.P. 10.935 to Okeechobee
  - FPID: 249615-5: Construction March 2016
- M.P. 8.151 to M.P. 10.935
  - FPID:249615-8: Construction June 2015
- M.P. 5.122 to M.P. 8.151
  - FPID: 249615-7: Construction July 2015
- M.P. 2.754 to M.P. 5.122
  - FPID:249615-6: Construction July 2015
- N. SR 90/SW 8 St to M.P. 2.754
  - FPID:249615-2: Construction July 2015
- SR 94/Kendall Dr. to N. SR 90/SW 8 St
  - FPID:249614-3: Construction February 2015
- SW 136 St to S. SR 94/Kendall Dr.
  - FPID: 249614-7: Construction August 2016



# Krome Avenue Project



## Krome North: Animal Crossing



# Krome Avenue Project



## Krome North Construction



# Krome Avenue Project



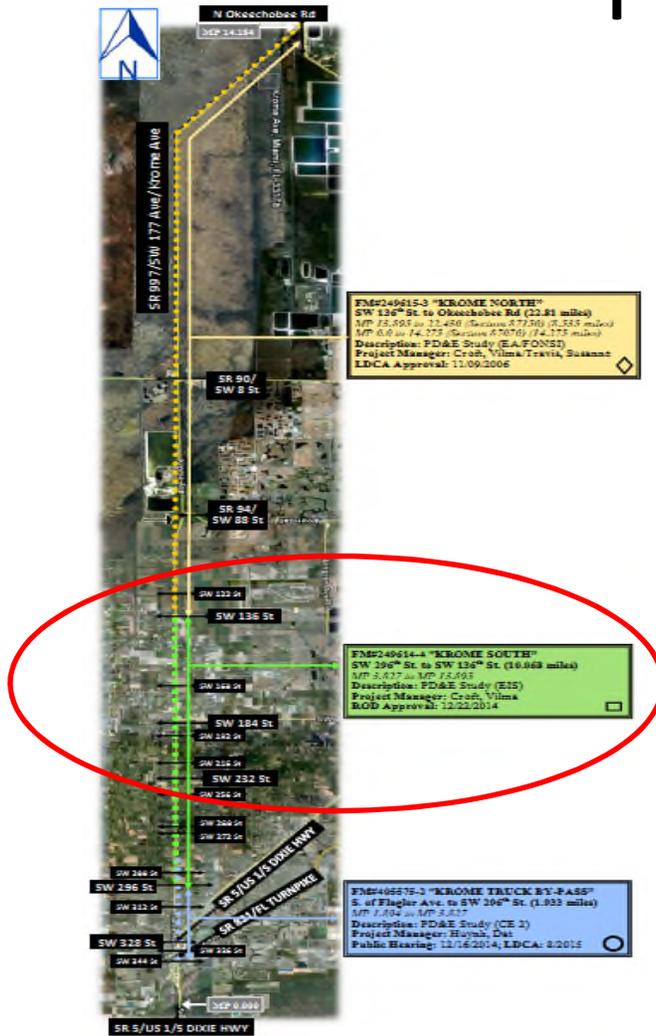
Krome North  
From SW 136 St to Okeechobee Rd

Project Segment	Estimated Right-of-Way Cost	Estimated Construction Cost
M.P. 10.935 to Okeechobee Road		\$ 24,000,000
M.P. 8.151 to M.P. 10.935		\$ 17,700,000
M.P. 5.122 to M.P. 8.151		\$ 18,900,000
M.P. 2.754 to M.P. 5.122		\$ 13,200,000
N. SR 90/SW 8 St to M.P. 2.754		\$ 12,900,000
SR 94/Kendall Drive to N. SR 90/SW 8 Street	\$ 9,600,000	\$ 58,800,000
SW 136 Street to S. SR 94/Kendall Drive	\$ 4,300,000	\$ 44,400,000
<b>TOTAL COST</b>	<b>\$ 13,900,000</b>	<b>\$ 189,900,000</b>

# Krome Avenue Project



## Project Segment



**Krome North**  
(SW 136 Street to Okeechobee Road)

**Krome South**  
(SW 296 Street to SW 136 Street)

**Krome Truck By-Pass**  
(SW 344 Street/Palm Drive to SW 296 Street)



# Krome Avenue Project



## Krome South

### Project Location



- SW 184 St/Eureka Dr to SW 136 St
  - FPID: 427369-3: Construction October 2018
- SW 232 St to SW 184 St/Eureka Dr
  - FPID: 427369-2: Construction October 2018
- SW 296 St to SW 232 St
  - FPID: 427369-1: Construction August 2019

# Krome Avenue Project



## PD&E History

- Built in 1962-63; two-lanes from US-1 to US-27
  - Rural principal arterial roadway
  - Agricultural / Commercial / Residential / Protected Land
- In mid-1980s FDOT began study of four-lanes; project was put on hold  
MPO proposed a four-lane widening project in Transportation Plan in 1988; adopted it in 1990
- FDOT began a Feasibility Study of four-lanes in 1988
- By 1994, due to controversy, County eliminated the four-lane project from MPO Plan FDOT completed a Corridor Action Plan study (looking at two-lane alternatives only) in 1999
- In 2002 FDOT completed two more safety studies
- In 2002 County passed Resolutions, and State approved them, to allow a study of four-lanes
- In 2003 FDOT began to study four-lanes

# Krome Avenue Project



## PD&E Public Involvement

### Agencies Kick-Off Meeting

- July 21, 2004

### Over 74 Stakeholder Meetings (2003-2014)

### Citizens Advisory Committee (CAC)

- 12 Meetings (2006-2012)

### Alternatives Public Workshop

- May 31, 2006

### Agencies Update Meeting

- September 12, 2012

### Project Newsletters

- 2 Editions (2005 and 2013)

### Public Hearing

- December 11, 2013

### Project Website

**Krome Avenue South PD&E Study**

**Krome Avenue Today**

**Krome Avenue 1900's**

Master planning of major transportation facilities such as Krome Avenue has been essential to ensure the availability of capacity within the transportation network and to support the region's traffic growth. The project limits are from SW 296th to SW 136th Street (referred to as "Krome South"), which is a 10.0 mile roadway classified as a rural/urban principal arterial. A Project Development and Environment (PD&E) Study is currently underway for this corridor. The general objective of this study is to provide and document the necessary information for the Florida Department of Transportation (FDOT) to reach a decision on the type, design, and location of improvements needed to alleviate the current traffic conditions, address capacity improvement needs, and implement safety solutions to the corridor.

Note: Adobe Acrobat Reader is required to view these files. Adobe Acrobat Reader is a program that allows users to view files in Portable Document Format (PDF). PDF is a universal file format that preserves the appearance of the original document.

Viewing: If you do not already have Adobe Acrobat, you can [download Acrobat Reader for free](#)

Florida Department of Transportation

# Krome Avenue Project



## PD&E Study

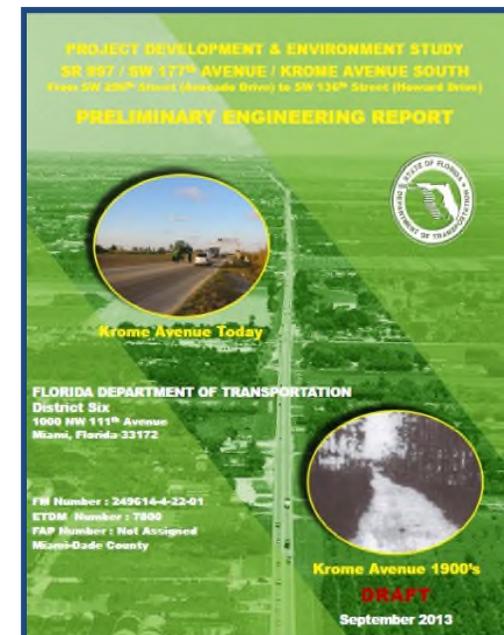
Successfully completed federal environmental process in 01/2015

Prepared a combined Final Environmental Impact Statement / Record of Decision (FEIS/ROD)

- Highest level of analysis, public involvement, and review
- Combined document expedited delivery of safety project

Federal-selected alternative is:

- Four-lane divided facility
- Suburban typical within the UDB  
(from SW 296 Street to SW 272 Street)
- Rural typical outside the UDB  
(from SW 272 Street to SW 136 Street)



# Krome Avenue Project



## PD&E Study

Project has total of 22 commitments:

- 4 Engineering
- 2 Community Service
- 3 Wildlife
- 8 Owaissa Bauer Pineland Preserve
- 4 Audubon Society
- 1 Noise

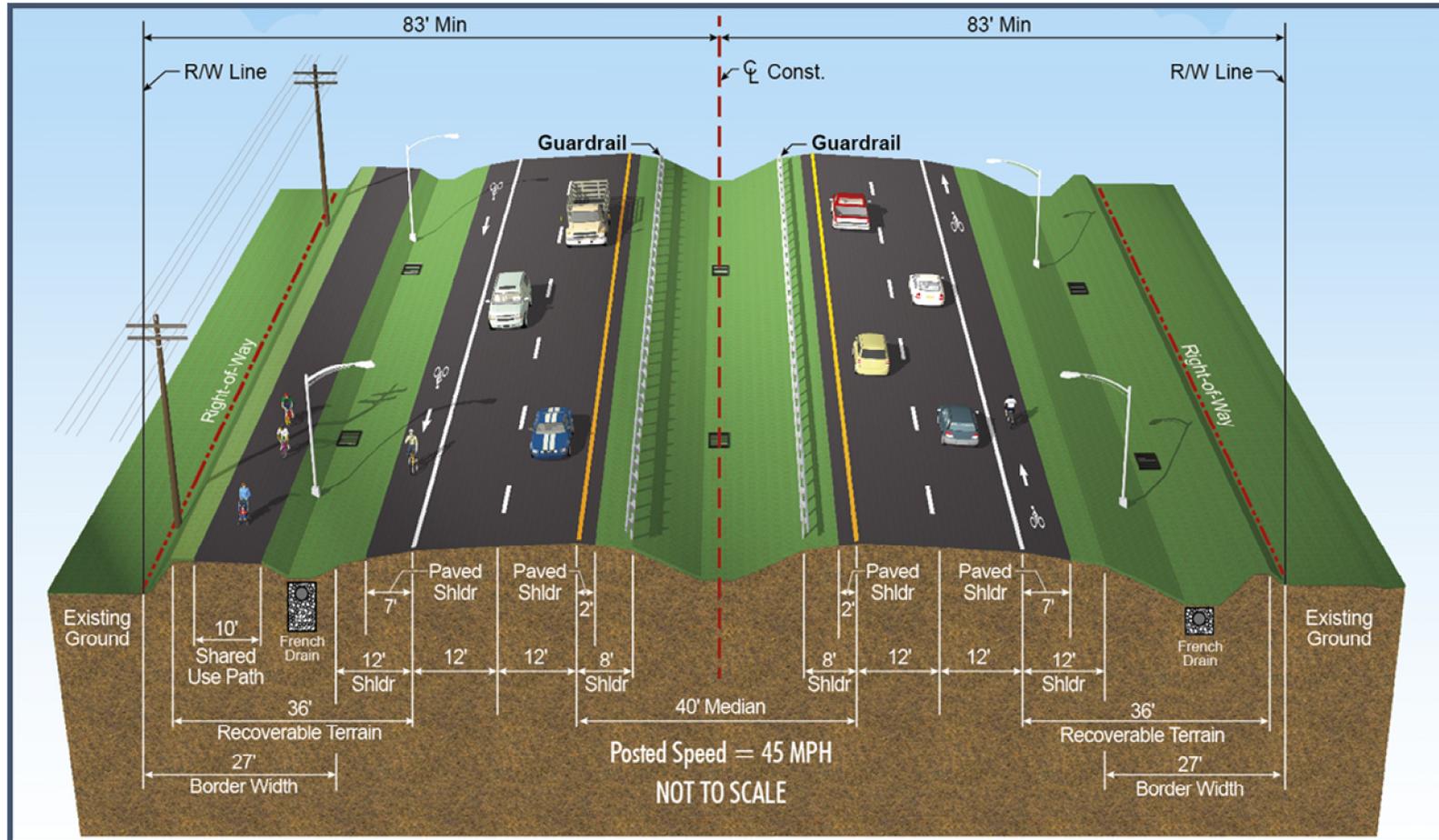
Including:

- Coordination with the SFWMD on their canal access and structures
- Continuing to review median design for agricultural truck turning
- **Continued community coordination**
- Coordinating with County Public Schools

# Krome Avenue Project



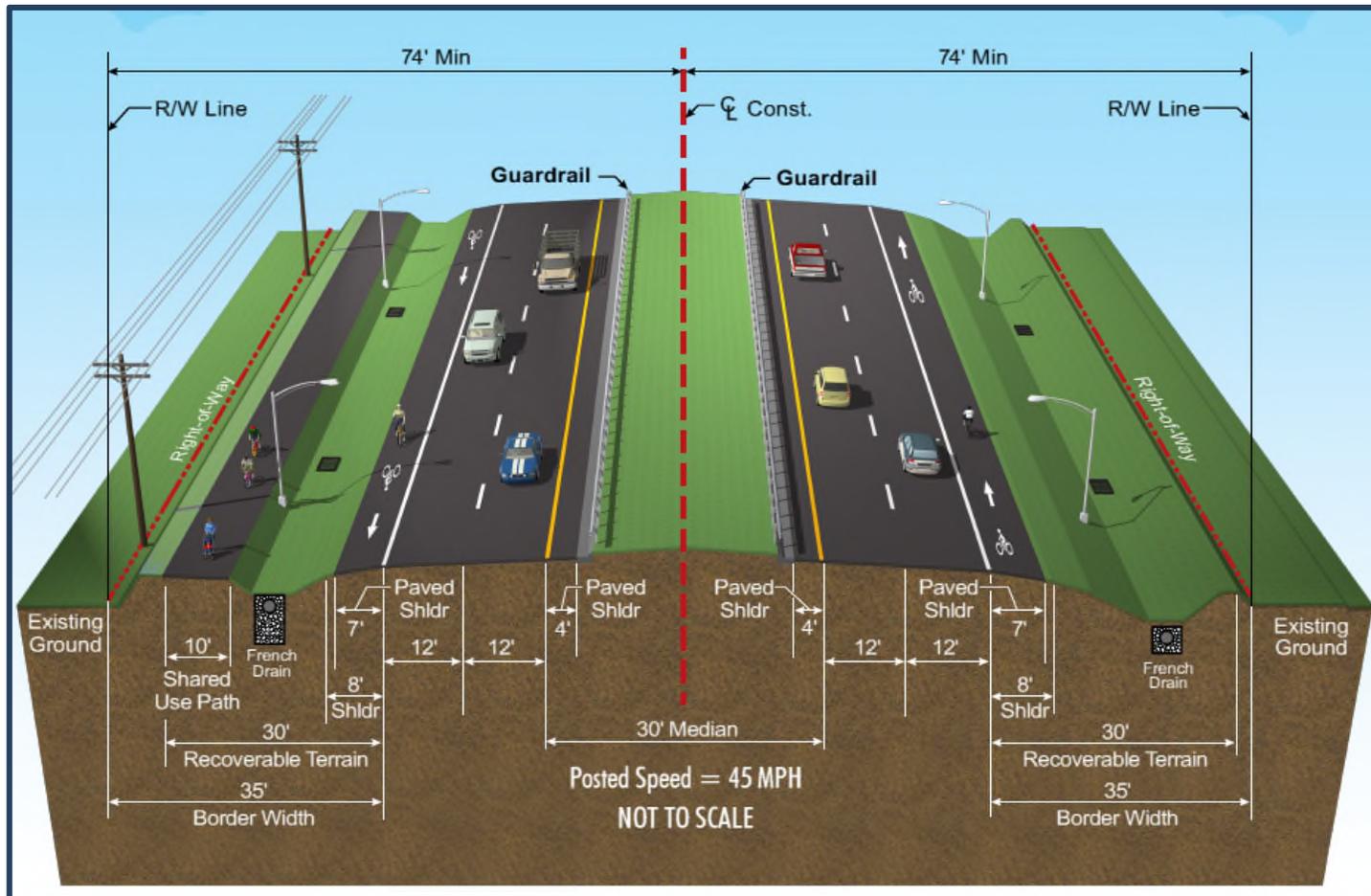
Krome South Typical: Rural  
From SW 272 St to SW 136 St



# Krome Avenue Project



Krome South Typical: Suburban  
From SW 296 St to SW 272 St



# Krome Avenue Project

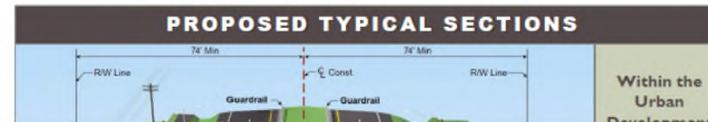


## Public Involvement

- Three Public Meetings
- MPO presentation
- Dade County Farm Bureau
  - Town Hall
  - Project Information Table
- Rotary Club
- Elected Official

**Centennial FDOT**  
1915 \* 2015

**PROJECT MEETING NOTIFICATION**  
FLORIDA DEPARTMENT OF TRANSPORTATION—DISTRICT SIX  
State Road (SR) 997/Krome Avenue  
From SW 184 Street to SW 136 Street  
FPID#: 427369-3-52-01



**SR 997/Krome Avenue/SW 177 Avenue  
From SW 296 Street to SW 136 Street  
Design Projects**

**Centennial FDOT**  
1915 \* 2015

Financial Management Nos. 427369-1, 427369-2 & 427369-3  
Efficient Transportation Decision Making (ETDM) No. 7800

**Project Characteristics**  
The projects extend along Krome Avenue from SW 296 Street to SW 136 Street for a distance of approximately 10 miles. The corridor is a major north-south rural/suburban principal arterial within the project limits, with various land uses including agricultural, commercial, residential, and protected lands. The projects will address roadway safety, corridor capacity, and a variety of design deficiencies.

- Overall Improvements**
- \* Reconstruct and widen from 2- to 4-lane divided roadway
  - \* Provide drainage system along project corridor
  - \* Install guardrail in median throughout project length
  - \* Provide lighting throughout project length
  - \* Provide adequate access management along project corridor
  - \* Enhance traffic flow along project corridor
  - \* Provide a shared use path for pedestrians and bicyclists
  - \* Provide new traffic signals at SW 272 St and SW 192 St
  - \* Upgrade traffic signals at SW 296 St, SW 288 St, SW 264 St, SW 248 St, SW 232 St, SW 216 St, and SW 200 St
  - \* Replace C-103 Canal/Mowry bridge
  - \* Replace C-102 Canal culvert with new bridge
  - \* Relocate existing South Florida Water Management District drainage control structure S-194 over C-102 canal

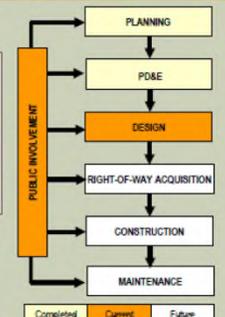


**Crash Statistics**  
Portions of Krome Avenue from US-1 to US-27 consistently appeared on the FDOT Safety Office's "High Crash Segment" List from 2004 to 2013.

Years	Number of Crashes	Number of Injury Crashes	Number of Injuries	Number of Fatal Crashes	Number of Fatalities
2004-2013					
Average/Year	374	190	330	6.2	6.6

**Project Status**

- \*Project Development and Environment (PD&E) study completed in 01/2015
- \*Design Phase began in 06/2014
- \*Right-of-Way Acquisition Phase will begin in 01/2016
- \*Construction Phase programmed for 09/2018 through 09/2021
- \*Public Involvement Program – ongoing throughout the entire project process



**Within the Urban Development Boundary**  
Construction and reconstruction in Miami-Dade County. Construction to address the effects of adverse impacts to existing construction. The direction of the roadway while in construction. Avenue will be reconstructed.

**Suburban Section**  
From SW 296 St to SW 272 St

**Outside the Urban Development Boundary**  
**Rural Section**  
From SW 272 St to SW 136 St

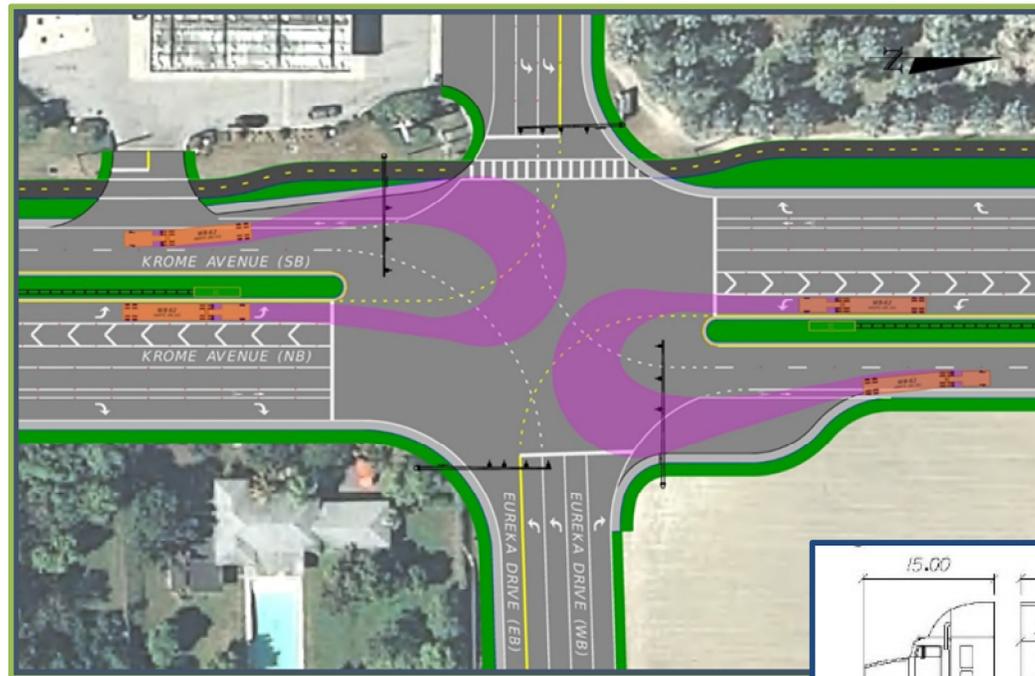
**Cost**

Estimated Construction Cost (Millions)	Estimated Right-of-Way Cost (Millions)
0.0	\$46.5
0.2	\$28.6
1.0	\$11.1
1.2	\$88.4

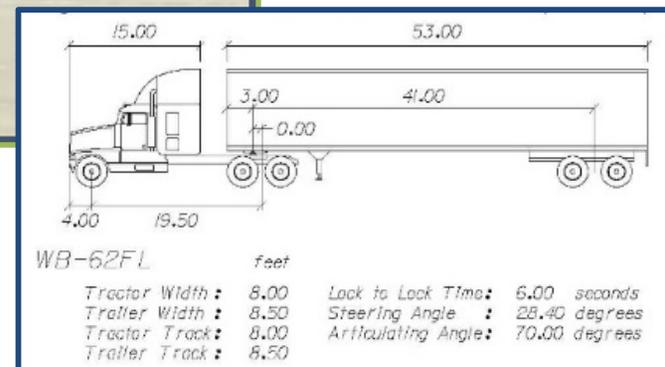
# Krome Avenue Project



## Safety Design Elements/Improvements



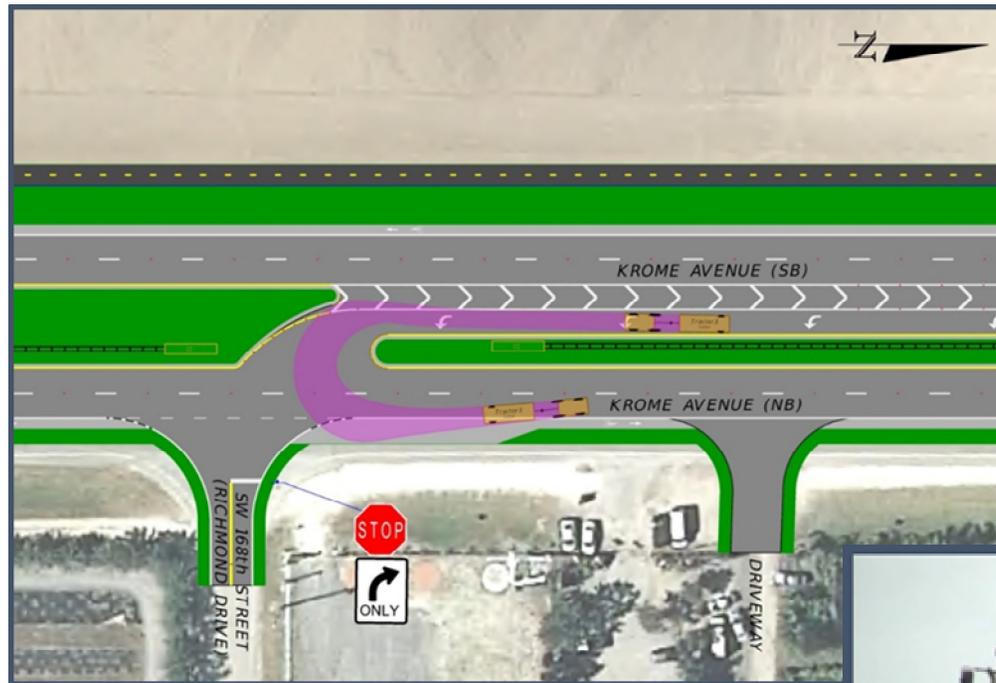
## Signalized Intersections



# Krome Avenue Project



## Safety Design Elements/Improvements



Median Openings



# Krome Avenue Project



## Safety Design Elements/Improvements

### Lighting

- Throughout the Corridor
- Shielded at specific locations



### New Signalized Intersection

- At SW 272 Street
- At SW 192 Street

### Medians

- Median openings allow for U-turns
- Extra shoulder pavement for U-turns

### Pedestrian and Bicycle Facilities

- 10-foot shared use path
- Bicycle lane on paved shoulders
- For residents and school children
- Connections to trail network (existing and future)



# Krome Avenue Project



Krome South  
From SW 296 St to SW 136 St

Project Segment	Estimated Right-of-Way Cost	Estimated Construction Cost
SW 296 Street to SW 232 Street	\$ 48,500,000	\$ 36,500,000
SW 232 Street to SW 184 Street	\$ 28,800,000	\$ 26,200,000
SW 184 Street/Eureka Drive to SW 136 Street	\$ 11,100,000	\$ 22,300,000
<b>TOTAL COST</b>	<b>\$ 88,400,000</b>	<b>\$ 85,000,000</b>

# Krome Avenue Project

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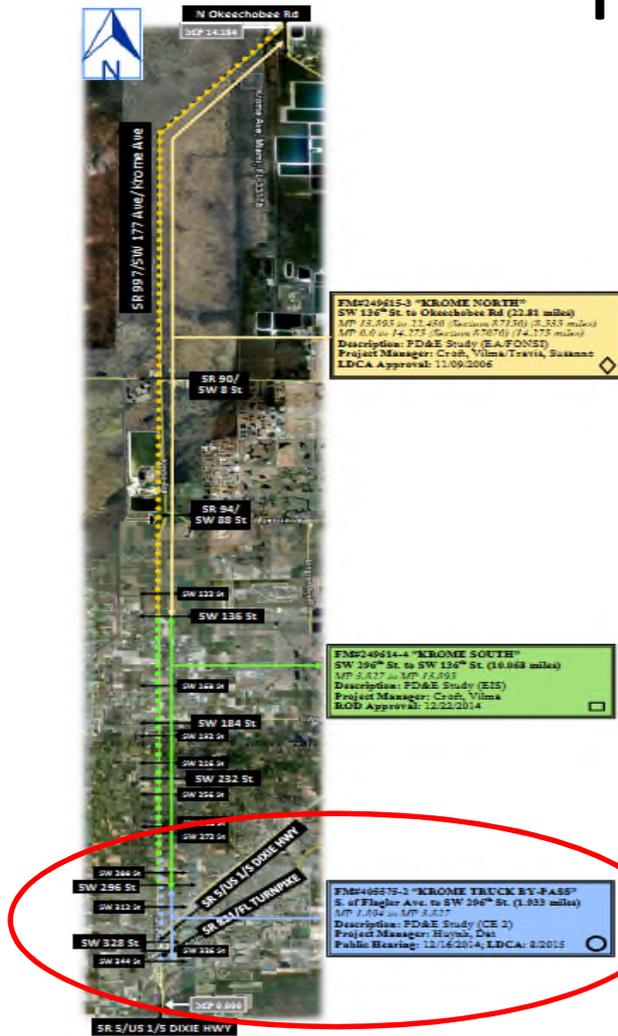


**This Year!!!**

# Krome Avenue Project



## Project Segment



**FMS#49615-0 "KROME NORTH"**  
SW 136<sup>th</sup> St to Okeechobee Rd (22.81 miles)  
MP 13.585 to 11.450 (Section 377.58) (2.135 miles)  
MP 0.0 to 14.325 (Section 478.76) (14.325 miles)  
Description: PD&E Study (EA/FONS)  
Project Manager: Croft, Vilma/Travis, Susanna  
LDCA Approval: 11/09/2006

**Krome North**  
(SW 136 Street to Okeechobee Road)

**FMS#49614-4 "KROME SOUTH"**  
SW 296<sup>th</sup> St to SW 136<sup>th</sup> St (16.663 miles)  
MP 2.017 to MP 13.585  
Description: PD&E Study (E15)  
Project Manager: Croft, Vilma  
BOD Approval: 12/22/2014

**Krome South**  
(SW 296 Street to SW 136 Street)

**FMS#49617-2 "KROME TRUCK BY-PASS"**  
S. of Flagler Ave. to SW 296<sup>th</sup> St. (1.833 miles)  
MP 1.054 to MP 2.887  
Description: PD&E Study (CE 2)  
Project Manager: Haynes, Dai  
Public Hearing: 12/16/2014, LDCA: 2/2015

**Krome Truck By-Pass**  
(SW 344 Street/Palm Drive to SW 296 Street)



# Krome Avenue Project



## Truck By-Pass Project

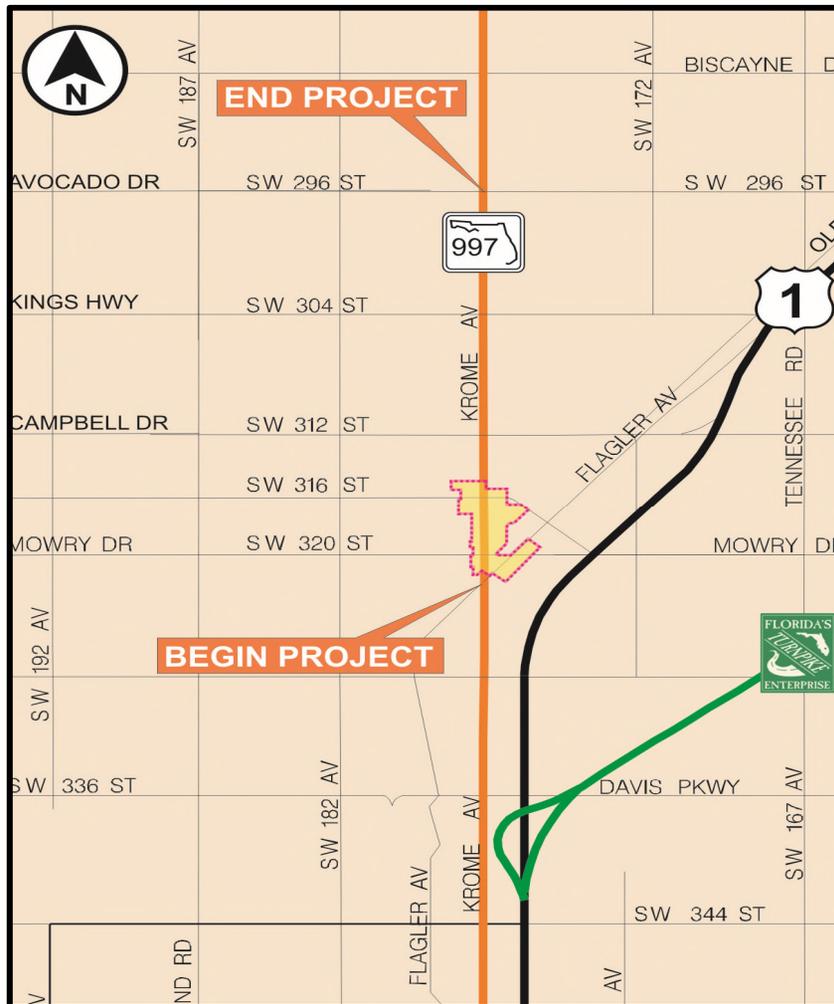


- Located in southwest Miami-Dade County, FL
- Project Limits
  - Begin Project: South of Flagler Avenue
  - End Project: SW 296 Street/Avocado Drive

# Krome Avenue Project



## Purpose and Need



- Redirect Truck Traffic from the Homestead Historic Downtown District Area
- Improve Truck Mobility
- Emergency Evacuation
- Congestion Relief
- Pedestrian Friendly Environment

# Krome Avenue Project



## Study Area



- Municipalities
  - City of Homestead
  - Florida City
- Characteristics
  - 15% Daily Truck Traffic
  - Homestead Historic Downtown District
  - Part of the Florida Intrastate Highway System (FIHS) and Strategic Intermodal System (SIS)

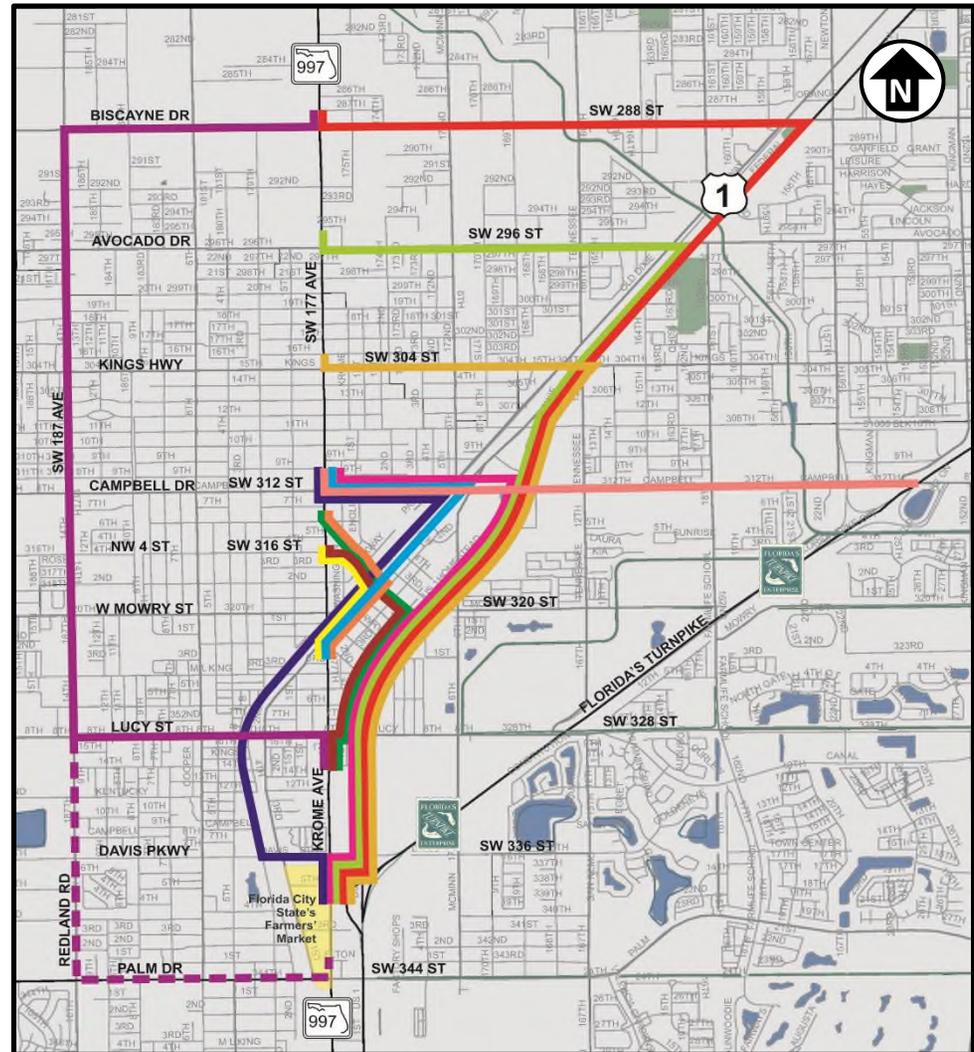
# Krome Avenue Project



## Study Alternatives

**LEGEND**

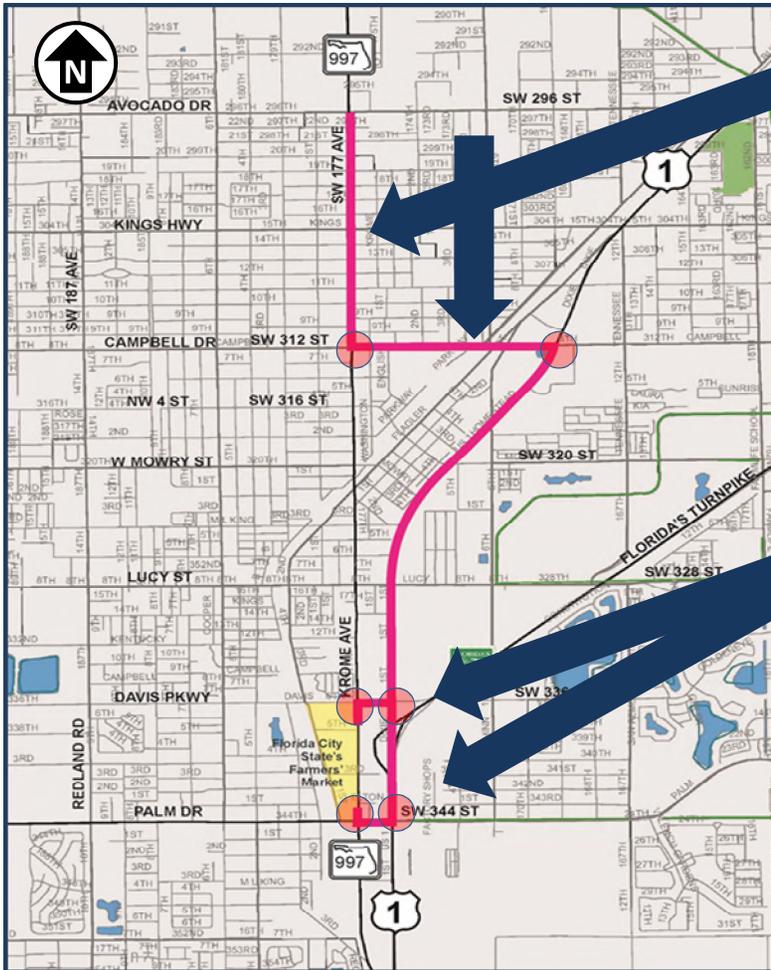
- Alternative A
- Alternative B
- Alternative C
- Alternative D
- Alternative E
- Alternative F
- Alternative G
- Alternative H
- Alternative I
- Alternative J
- Alternative K
- Alternative L



# Krome Avenue Project



## Krome Truck By-Pass Route



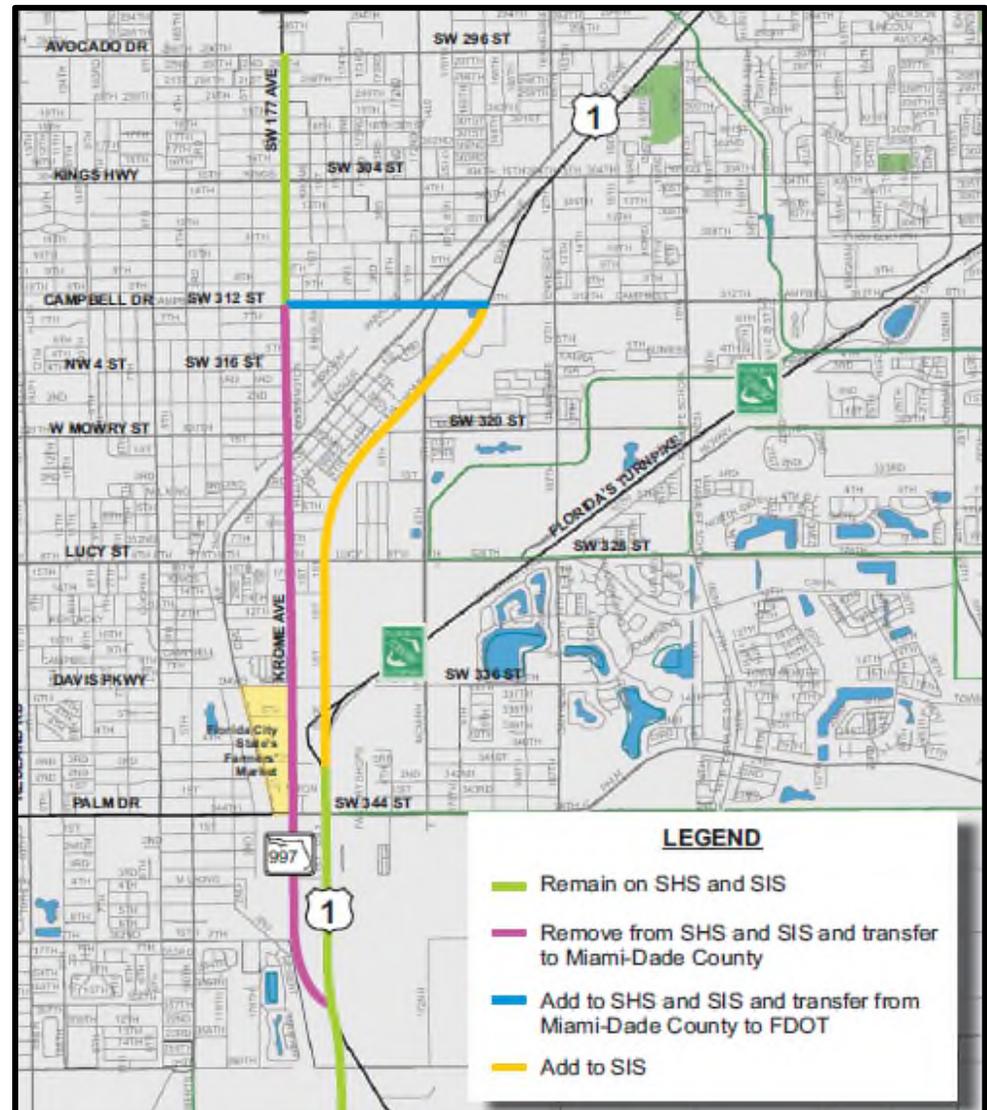
- Krome Avenue from Campbell Drive to SW 296<sup>th</sup> St (FM 405575-9)
  - Milling and resurfacing
- Campbell Drive from Krome Avenue to US-1 (FM 405575-6)
  - Widening and reconstruction
- Intersection Improvements
  - Krome Avenue and Campbell Drive
  - US-1 and Campbell Drive
  - US-1 and Davis Parkway (FM 405575-7)
  - US-1 and Palm Drive (FM 405575-8)
  - Krome Avenue and Palm Drive
  - Krome Avenue and Davis Parkway

# Krome Avenue Project



## Roadway Transfers

- Transfer to SIS
  - Campbell Drive between Krome Avenue and US-1
  - US-1 from Campbell Drive south would be designated as a SIS corridor



# Krome Avenue Project



## Existing Conditions



Truck traveling NB along Krome Avenue



Truck traveling SB along Krome Avenue

- Key Issues
  - On-street Parking
  - Downtown Businesses
  - Pedestrian/Bicycle Activity

# Krome Avenue Project

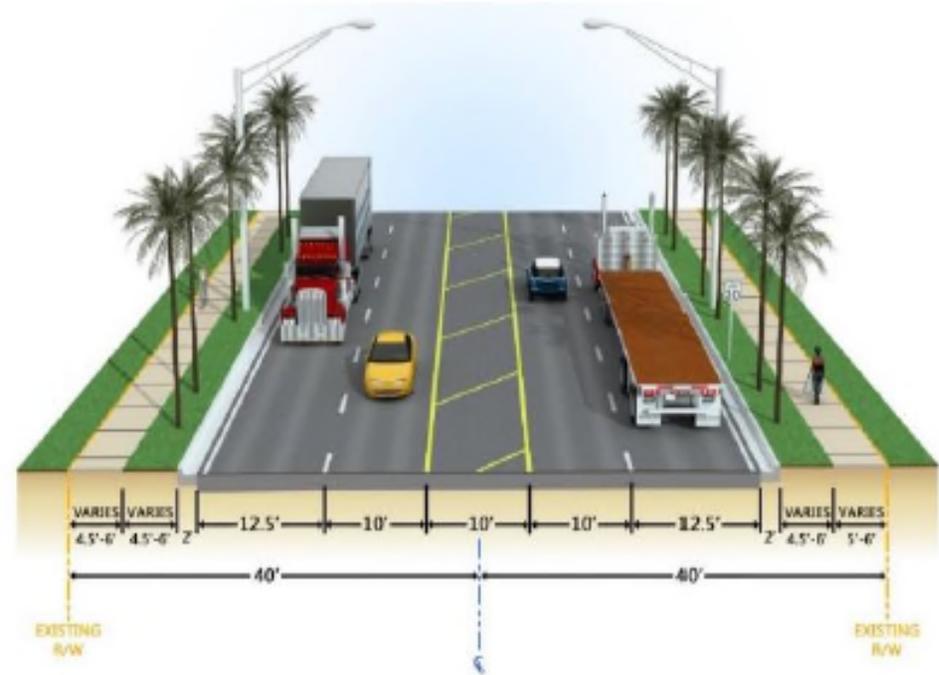


## Krome Avenue

from Campbell Drive to SW 296<sup>th</sup> Street



Existing Typical



Proposed Typical

# Krome Avenue Project



## Existing Conditions



Traveling EB along Campbell Drive



Traveling WB along Campbell Drive

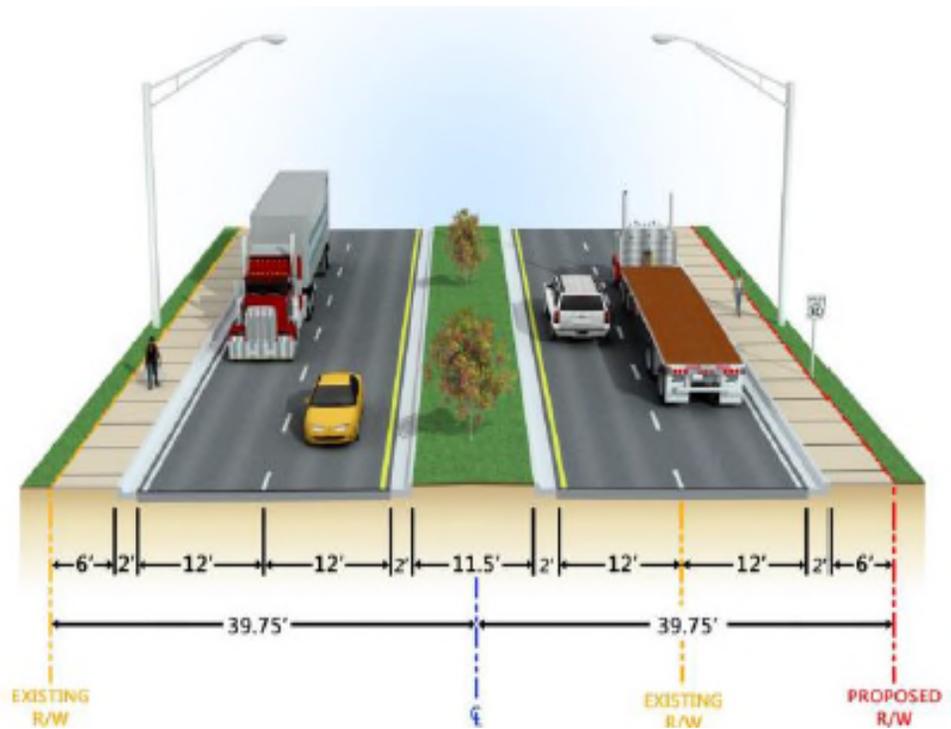
# Krome Avenue Project



## Campbell Drive from Krome Avenue to US-1



Existing Typical



Proposed Typical

# Krome Avenue Project



## Cost Estimate

FM	Project Segment	Estimated Construction Cost
405575-9	Krome Avenue (Campbell Drive to SW 296 Street)	\$ 2,000,000
405575-6	Campbell Drive (Krome Avenue to US-1)	\$ 12,000,000
405575-7	Davis Parkway (Krome Avenue to US-1)	\$ 1,300,000
405575-8	Palm Drive (Krome Avenue to US-1)	\$ 900,000
	<b>TOTAL COST</b>	<b>\$ 16,200,000</b>

- Letting in Spring 2019

# Krome Avenue Project



## Questions



Thank You

# Krome Avenue Project

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## Contact:

Krome North and Krome South

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Truck By-Pass

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305.470.5183



Florida Department of Transportation