Project Study Area

LIMITS:
- SR 9/I-95: from S of 45th Street to N of 45th Street
- 45th Street: From Village Boulevard to Congress Avenue
- Palm Beach County, Florida

MUNICIPALITIES:
- City of West Palm Beach
- Town of Mangonia Park
- City of Riviera Beach
Purpose and Need

Project Purpose:

- Identify short-term and long-term needs within the study area;
- Develop design concepts to address traffic spillback onto I-95;
- Improve interchange operations, reduce congestion, and increase safety at the study interchange.

Project Need:

- Alleviate existing and future traffic congestion thereby improving safety at the interchange.
Existing Year Conditions - Lane Configuration, Delay and LOS

1. Northpoint Blvd
2. 45th Street
3. Corporate Way
4. Congress Ave
5. 45th Street

<table>
<thead>
<tr>
<th>Location</th>
<th>AM Delay</th>
<th>PM Delay</th>
<th>Level Of Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24.0 C</td>
<td>30.5 C</td>
<td>B</td>
</tr>
<tr>
<td>2</td>
<td>26.8 C</td>
<td>22.2 C</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>34.9 C</td>
<td>30.1 C</td>
<td>C</td>
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<tr>
<td>4</td>
<td>33.8 C</td>
<td>41.3 D</td>
<td>C</td>
</tr>
<tr>
<td>5</td>
<td>14.3 B</td>
<td>10.2 B</td>
<td>B</td>
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</table>

- Existing Lane
- Change in pavement marking
- Proposed additional lane
**No-Build 2040 Year Conditions - Lane Configuration, Delay and LOS**

<table>
<thead>
<tr>
<th>Location</th>
<th>AM Delay / LOS</th>
<th>PM Delay / LOS</th>
<th>Level Of Service</th>
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</thead>
<tbody>
<tr>
<td>45th Street</td>
<td></td>
<td></td>
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<tr>
<td>I-95 NB Off Ramp</td>
<td>50.3 D</td>
<td>48.5 D</td>
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<tr>
<td>Congress Ave</td>
<td>13.4 B</td>
<td>22.0 C</td>
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<tr>
<td>Corporate Way</td>
<td>62.9 E</td>
<td>54.3 D</td>
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<tr>
<td>Northpoint Blvd</td>
<td>31.8 C</td>
<td>80.3 F</td>
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<tr>
<td>Los Angeles Blvd.</td>
<td>41.9 D</td>
<td>83.1 F</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **Existing Lane**
- Change in pavement marking
- Proposed additional lane
- LOS F Movements

**Study:**
SR 9/I-95 Interchange at 45th Street PD&E Study
Alternatives Analysis

• No-Build

  • Transportation System Management & Operations (TSM&O)
    o Short Term
    o Open to Traffic in 3-5 Years
    o No Right-of-Way Impacts
    o Lower Cost

• Build Alternatives
  o Long Term
  o Open to Traffic in 8-10 Years
  o Ultimate Improvements

Alternatives Evaluation Process

Alternative Screening Evaluation Matrix

- Traffic Operations
- Safety
- Freight
- SIS Connectivity
- Access Management
- Utilities
- Constructability
- MOT
- Historic & Archeological
- Wetlands
- Canal Impacts
- Noise Impacts
- Permitting
- R/W Impacts
- Aesthetic Features
- Community Services

Public Workshop

Recommended Alternative
Alternatives Analysis | TSM&O

- Add additional right and left turn lane at the ramp intersections
- Add directional signage on NB off-ramp to North Congress Avenue
- Add one EB and one NB left turn lane at Congress Avenue
- Provide travel information system
- Develop signal system strategies
TSM&O 2040 Year Conditions - Lane Configuration, Delay and LOS

Table showing AM and PM Delay/LOS:

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<td>A</td>
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<td>F</td>
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</tbody>
</table>

Legend:
- Existing Lane
- Change in pavement marking
- Proposed additional lane
- LOS F Movements

Map showing lane configurations and delays at various locations:
1. Northpoint Blvd
2. 45th Street
3. Corporate Way
4. Congress Ave
5. Corporate Way

2040 Year Conditions:
- Northpoint Blvd:
  - AM Delay: 36.2 D
  - PM Delay: 50.2 D
- 45th Street:
  - AM Delay: 40.1 D
  - PM Delay: 39.6 D
- Corporate Way:
  - AM Delay: 18.0 B
  - PM Delay: 13.5 B

Level of Service:
- LOS A
- LOS B
- LOS C
- LOS D
- LOS E
- LOS F
Alternatives Analysis | Alternative 1 – 45th Street Widening
Alternatives Analysis | Alternative 2 – Diverging Diamond Interchange
Alternatives Analysis | Alternative 2 – Diverging Diamond Interchange
Alternative 1 – 2040 Year Conditions
Lane Configuration, Delay and LOS

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<tr>
<th>Location</th>
<th>AM Delay / LOS</th>
<th>PM Delay / LOS</th>
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<td>29.5 C</td>
<td>46.7 D</td>
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<td>26.0 C</td>
<td>23.3 C</td>
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<tr>
<td>31.8 C</td>
<td>30.6 C</td>
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<td>20.7 C</td>
<td>18.2 B</td>
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<tr>
<td>54.0 D</td>
<td>53.7 D</td>
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</table>
Alternative 2 – 2040 Year Conditions
Lane Configuration, Delay and LOS

1. 33.4 C
   48.4 D

2. 26.4 C
   28.1 C

3. 38.2 D
   49.5 D

4. 21.9 C
   15.4 B

5. 51.8 D
   50.2 D

Level Of Service
- A
- B
- C
- D
- E
- F

AM Delay / LOS
PM Delay / LOS

Existing Lane
Change in pavement marking
Proposed additional lane
Drainage Analysis

- Drainage requirements are being met within existing R/W through use of dry detention ponds and swales that ultimately discharge to the C-17 Canal.
- Minor modifications to the existing collection system will be required.
- No need for additional offsite ponds are anticipated.
Environmental Analysis

Wetlands/Benthic Resources
- No jurisdictional wetlands
- Sparse tape grass in C-17 Canal south of 45th Street

Special Designations
- No special designation or Outstanding Florida Waters

Wildlife and Habitat
- Project area does not generally provide wildlife habitat

Contamination
- Alternative 1:
  - 2 High Risk Sites
  - 7 Medium Risk Sites
- Alternative 2:
  - 1 High Risk Sites
  - 6 Medium Risk Sites

• Others Environmental Considerations
  - There are no anticipated noise impacts as part of the recommended improvements
  - There are no anticipated impacts to any Historical or Archeological Sites
  - There are no relocation potentials as part of the recommended improvements
## Preliminary Right-of-Way Impacts

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>TSM&amp;O</th>
<th>ALTERNATIVE 1</th>
<th>ALTERNATIVE 2</th>
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<tbody>
<tr>
<td>Commercial</td>
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<tr>
<td>Residential</td>
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<tr>
<td>Vacant Land</td>
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<td><strong>TOTAL PROPERTIES IMPACTED</strong></td>
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## Preliminary Cost Estimate

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<th>COMPONENT</th>
<th>TSM&amp;O</th>
<th>ALTERNATIVE 1</th>
<th>ALTERNATIVE 2</th>
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<tbody>
<tr>
<td>Roadway Construction</td>
<td>$3,880,000</td>
<td>$8,983,400</td>
<td>$8,619,700</td>
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<tr>
<td>Engineering/Design (10% Construction)</td>
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<td>$898,340</td>
<td>$861,970</td>
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<td>CEI (15% Construction)</td>
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<td>$1,347,510</td>
<td>$1,292,955</td>
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<td>Right-of-Way Acquisition</td>
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<td>$2,261,400</td>
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<td><strong>TOTAL COST</strong></td>
<td><strong>$4,850,000</strong></td>
<td><strong>$13,490,650</strong></td>
<td><strong>$13,036,025</strong></td>
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Public Involvement

• Agency & Public Kick-Off Meetings — September 13, 2016

• Elected Officials/Agencies Briefings
  o Palm Beach County Engineering
  o Palm Beach County MPO
  o City of West Palm Beach
  o Town of Mangonia Park
  o City of Riviera Beach

• Alternatives Public Workshop — March 28, 2017

• Other Meetings
  o Coordination with City of West Palm Beach & Town of Mangonia Park
  o 45th Street Corridor Summit – Multiagency Discussion

• Public Hearing — November 2, 2017
## Summary Schedule

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<thead>
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<th>ACTIVITY</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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<td>Notice to Proceed</td>
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<td>Fact Sheet/Newsletter</td>
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<td>Elected Officials/Agency Kick-Off Meeting</td>
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<td>Public Kick-Off Meeting</td>
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<td>Engineering Data Collection</td>
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<td>Engineering Analysis</td>
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<td>Environmental Data Collection</td>
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<td>Develop and Evaluate Alternatives</td>
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<td>Alternatives Public Workshop</td>
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<td>Public Hearing</td>
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<td>Final Project Documentation</td>
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<td>Location and Design Concept Acceptance (LDCA)</td>
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<td>Continuous Public Involvement</td>
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**TODAY**
### Long Range Transportation Plan (LRTP) Amendment

- **I-95 at 45th Street Interchange Project FM #436519-1**
  - FDOT District Four requested and received approval for statewide SIS funds for all phases
  - Draft Tentative Work Program FY 2018 – FY 2022 and SIS 2nd Five

<table>
<thead>
<tr>
<th>Phase</th>
<th>PD&amp;E</th>
<th>Design</th>
<th>ROW</th>
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<td>Fiscal Year(s)</td>
<td>2016-2017</td>
<td>2021</td>
<td>2022-2023</td>
<td>2026</td>
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<td>$19,516,258</td>
<td>$80,432,086</td>
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Note: (1) Shown in Year of Expenditure (YOE) dollars

- Requesting an amendment to Palm Beach MPO’s adopted 2040 LRTP to incorporate the I-95 at 45th Street Interchange project as a fully funded project in the Cost Feasible Plan (CFP)
THANK YOU

For more information, please call, email or write to:

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Fort Lauderdale, FL 33309
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E-mail: Robert.Lopes@dot.state.fl.us
www.95at45Street.com