

# ***SR 710/ Warfield Blvd. PD&E Study***

## ***Presentation to ETAT***



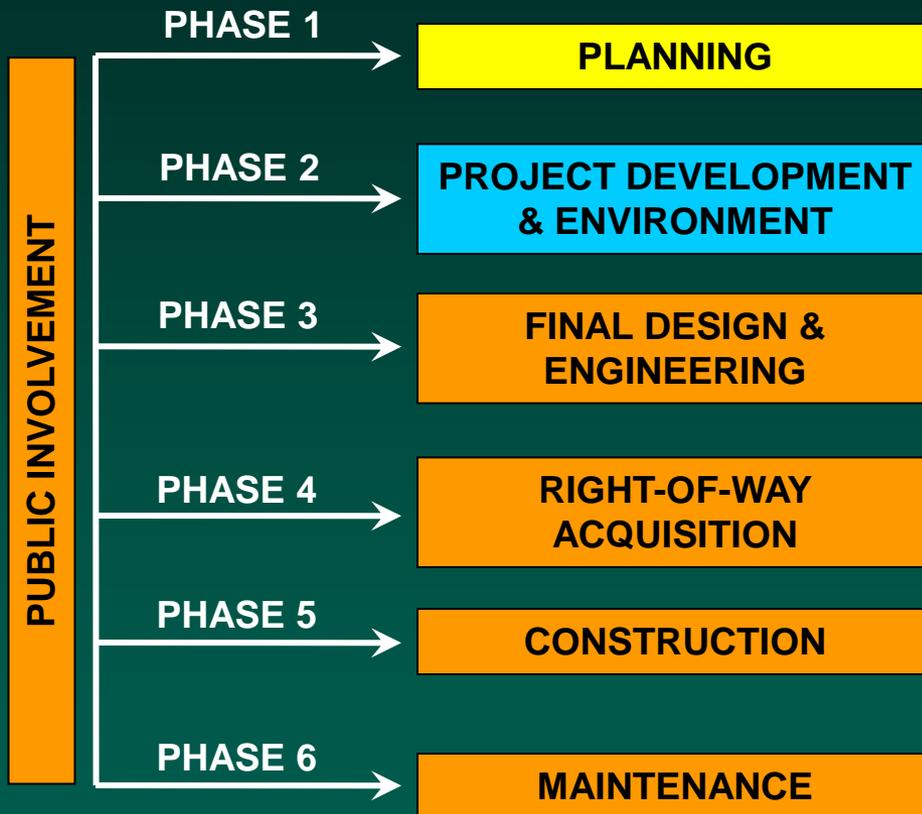
**Conducted by  
FDOT District Four  
May 27, 2009**



# **SR 710/Warfield Blvd.**

**Project Development & Environment Study**

## **Project Phases**





# SR 710/Warfield Blvd.

Project Development & Environment Study

## Project Location Map





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Need for the Project***

- **System Linkage**
- **Traffic Capacity**
- **Mobility of Passengers and Freight**
- **Local Government Plans**
- **Proposed Development in Area/Economic Benefits**
- **Multimodal Accommodations**
- **Safety**
  - ***Crashes***
  - ***Emergency Response***
  - ***Hurricane Evacuation***



# **SR 710/Warfield Blvd.**

**Project Development & Environment Study**

## **Regional Priorities**

- **Strategic Intermodal System (SIS)**
- **Hurricane Evacuation**

**STRATEGIC INTERMODAL SYSTEM**  
HIGHWAY COMPONENT

**Keeping Florida's Economy Growing**

**PROGRAM OVERVIEW**

State of Florida  
Department of Transportation  
Intermodal Systems Development  
Systems Planning Office

<http://www.dot.state.fl.us/Planning/systems/fihs/default.htm>

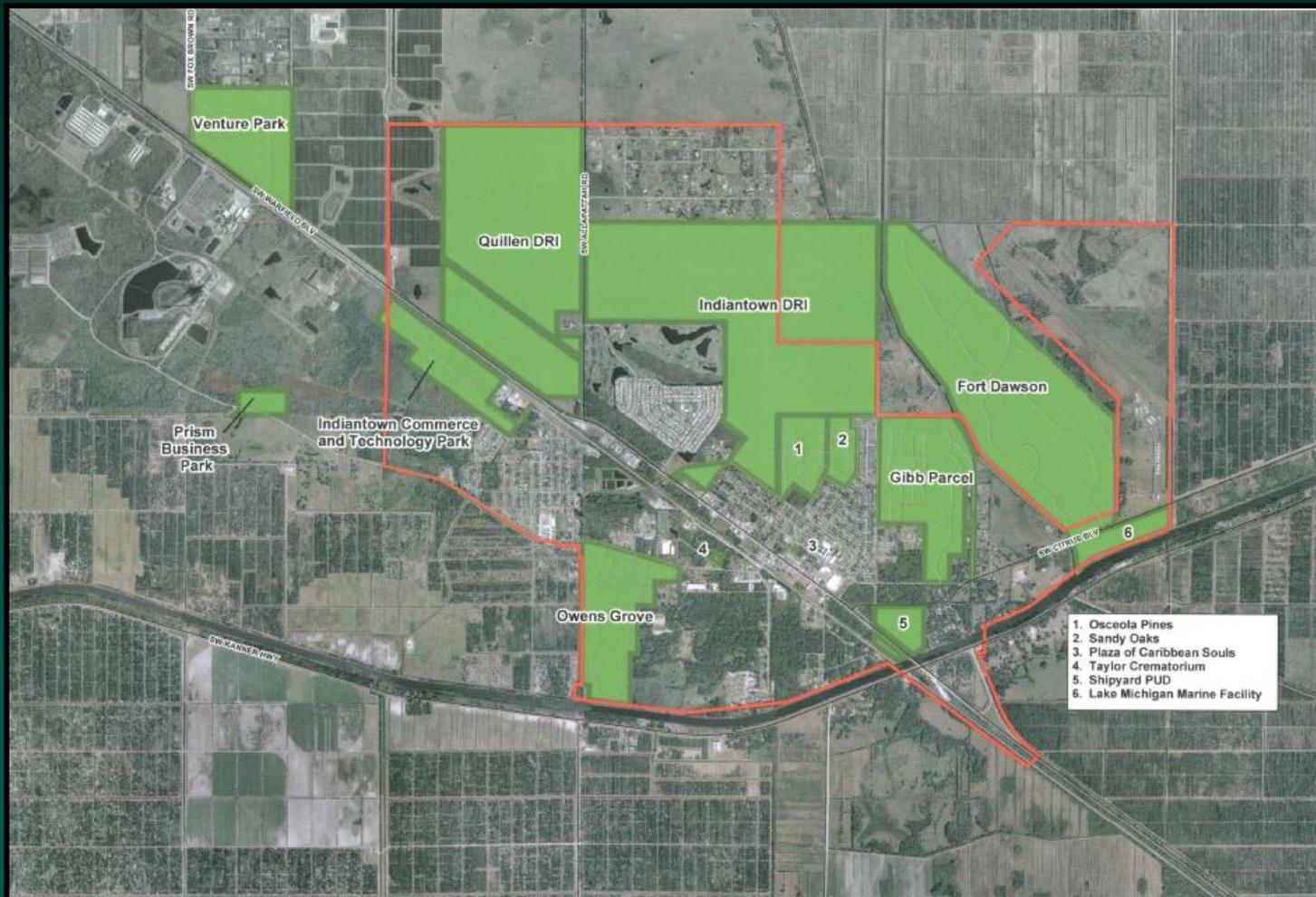
April 2005



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Proposed Development





# **SR 710/Warfield Blvd.**

**Project Development & Environment Study**

## ***Preliminary Traffic Projections***

		<b>Year 2006</b>		<b>Year 2020</b>		<b>Year 2030</b>	
<b>From</b>	<b>To</b>	<b>Traffic (vpd)</b>	<b># of Lanes</b>	<b>Traffic (vpd)</b>	<b># of Lanes</b>	<b>Traffic (vpd)</b>	<b># of Lanes</b>
<b>CR 609</b>	<b>SW Farm Rd.</b>	<b>11, 022</b>	<b>2/4</b>	<b>25, 870</b>	<b>4</b>	<b>44, 400</b>	<b>6</b>
<b>SW Farm Rd.</b>	<b>Citrus Blvd.</b>	<b>11, 022</b>	<b>4</b>	<b>29, 279</b>	<b>4</b>	<b>54, 600</b>	<b>6+</b>
<b>Citrus Blvd.</b>	<b>SR 76</b>	<b>11, 700</b>	<b>2</b>	<b>27, 107</b>	<b>4</b>	<b>46, 700</b>	<b>6</b>

**vpd = Vehicles Per Day**



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Indiantown

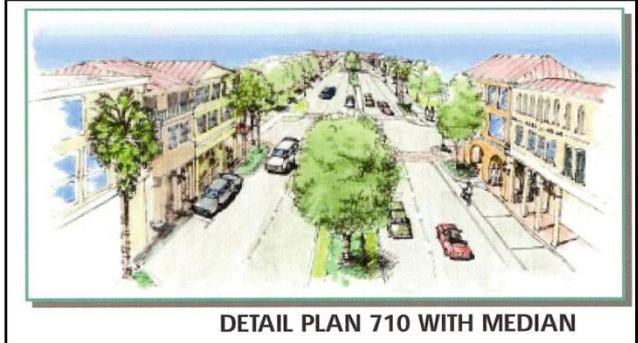
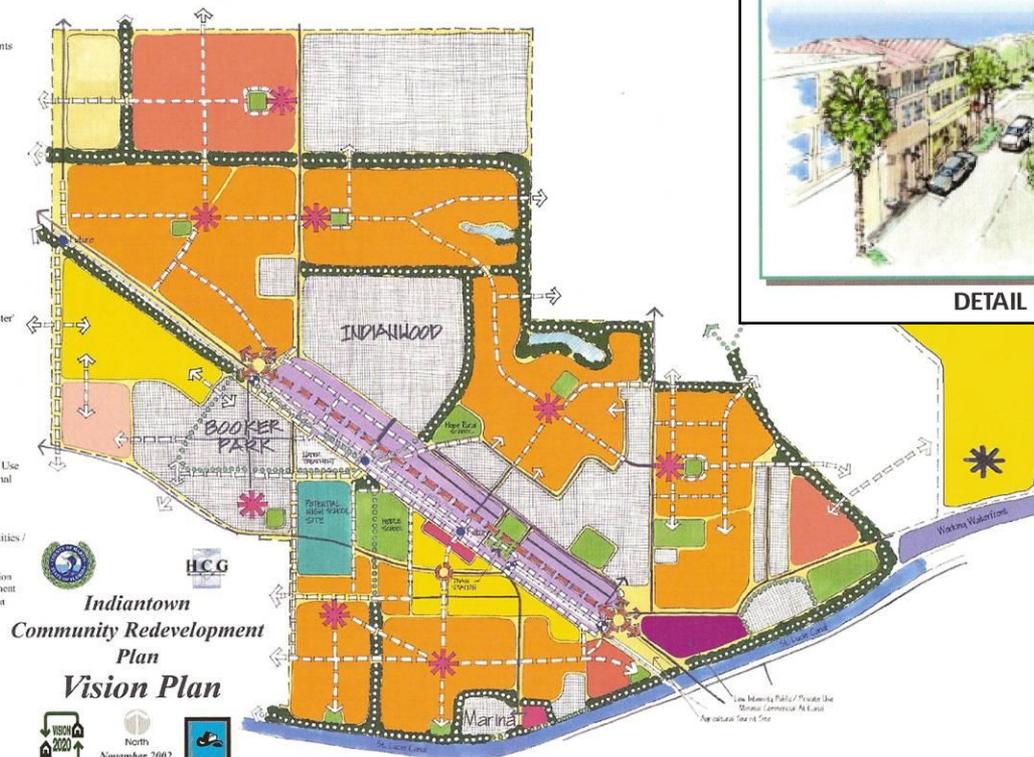
# Community Redevelopment Agency (CRA)

### III. VISION PLAN

#### B. Vision Plan

- LEGEND**
- Existing Roadway
  - Existing Roadway Improvements
  - Warfield Blvd. Streetscape
  - Roadway Connections
  - Roundabout / Gateway
  - Pedestrian Connections
  - Neighborhood Center
  - Recreation / Schools
  - Greenways
  - Existing Railroad Crossing (Or Relocated)
  - New Railroad Crossing

- Existing Communities / Developments
- Downtown District 'Town Center'
- Mixed Use District
- Residential 5
- Residential A
- Residential 8
- Residential 2
- Low Intensity Public / Private Use
- Minimal Commercial At Canal
- Potential High School Site
- Industrial
- Potential Rural Themed Amenities / Tourist Attraction Site
  - Fairgrounds, Rodeo
  - Gardens, Agriculture Exposition
  - Equestrian Center / Development
  - (Alternative sites along SR 710 west of Allamoguck Road)



DETAIL PLAN 710 WITH MEDIAN

Indiantown  
Community Redevelopment  
Plan  
Vision Plan



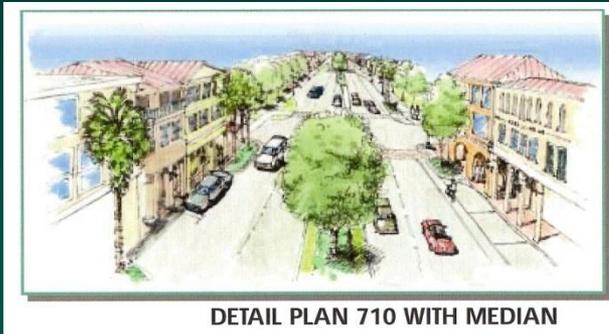


# **SR 710/Warfield Blvd.**

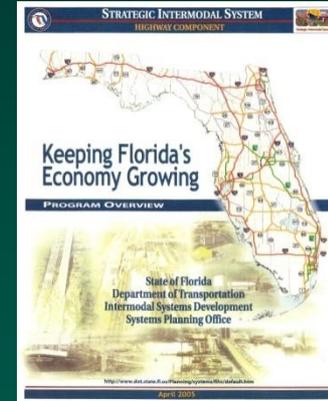
**Project Development & Environment Study**

## **Acceptable Solution**

### **Technical Elements**



**Local Vision**



**Regional Purpose**



# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Corridor Analysis***

- **"No Build" alternative**
- **Existing corridor along SR 710**
- **Alternate bypass corridors**





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Corridor Evaluation Criteria***

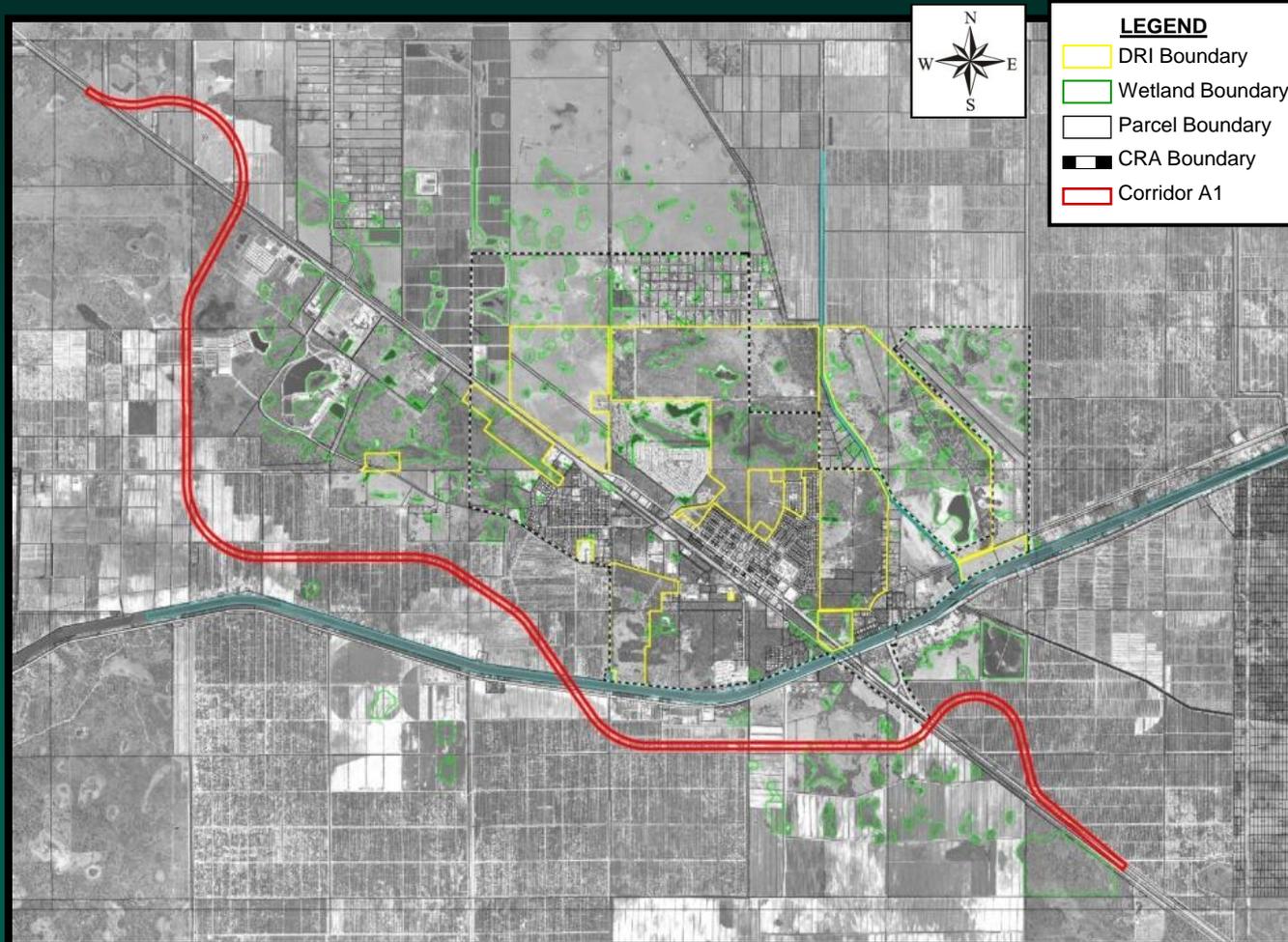
- **Existing and Future Land Use**
- **Wetlands, Floodplains, Wildlife Habitat**
- **Soils of Concern, Landfills, Contamination Sites**
- **Cultural and Community Resources**
- **Social Impacts**
- **Economics**



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor A Location





# SR 710/Warfield Blvd.

Project Development & Environment Study

## SIS 4-Lane Rural Typical Section (Bypass Alternative)





# **SR 710/Warfield Blvd.**

**Project Development & Environment Study**

## **Corridor A - Southern Bypass**

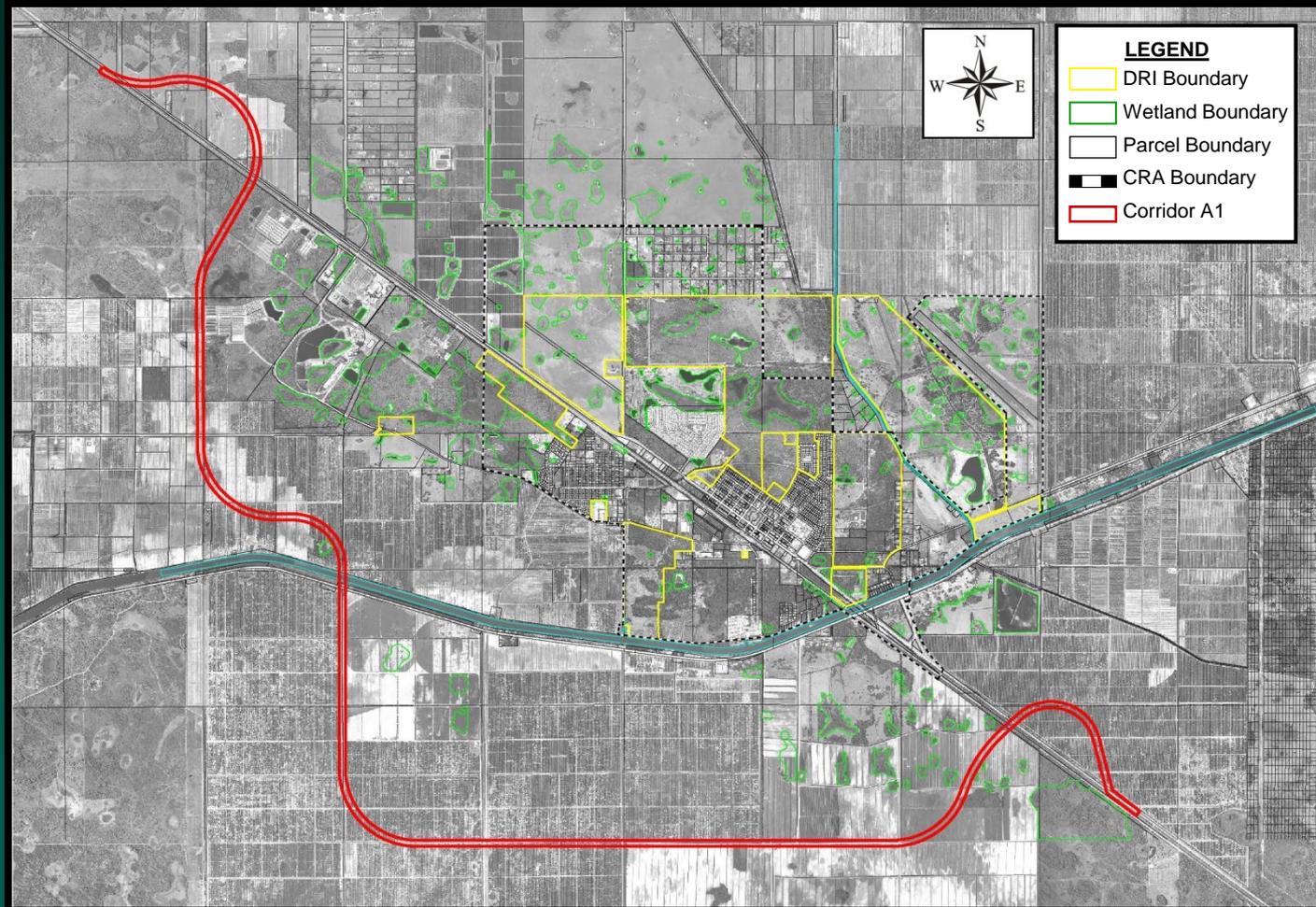
<b><u>POSITIVES</u></b>	<b><u>NEGATIVES</u></b>
<b>1. Avoids CRA</b>	<b>1. Additional bridges add to construction costs.</b>
<b>2. Low number of potential contamination impacts.</b>	<b>2. Doesn't go where current development is proposed</b>
<b>3. Moderate wetland impacts.</b>	<b>3. Potential to promote sprawl within existing agricultural area.</b>
<b>4. No Cultural Resources impacts.</b>	<b>4. Requires two bridge crossings over CSX Railroad</b>
<b>5. Low residential impacts.</b>	<b>5. Only uses a small amount of existing right-of-way.</b>
	<b>6. No direct intersection to CR 609.</b>
	<b>7. Impacts "prime" farmlands.</b>



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor A1 Location





# SR 710/Warfield Blvd.

Project Development & Environment Study

## SIS 4-Lane Rural Typical Section (Bypass Alternative)





# **SR 710/Warfield Blvd.**

**Project Development & Environment Study**

## **Corridor A1 - Southern Bypass**

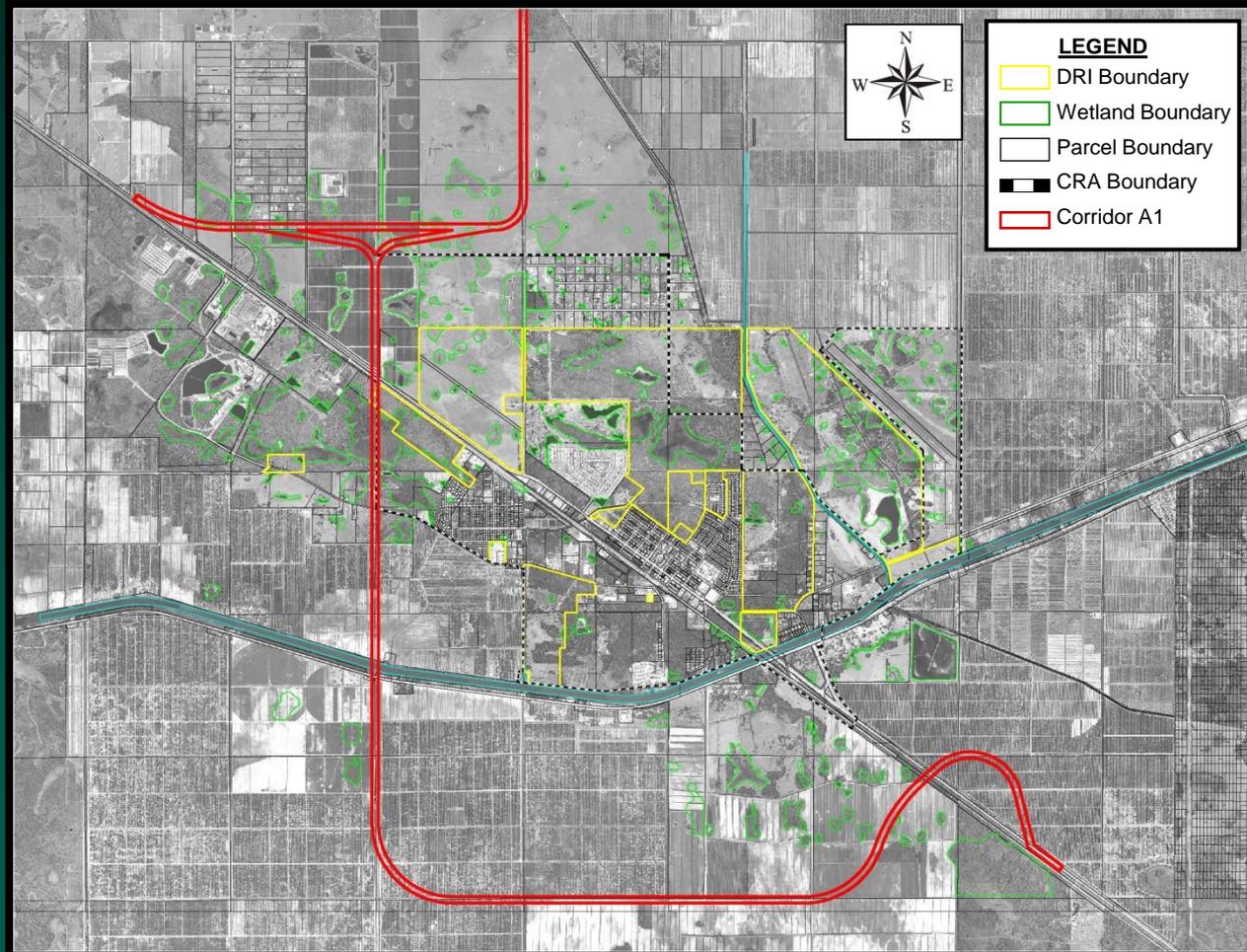
<b><u>POSITIVES</u></b>	<b><u>NEGATIVES</u></b>
<b>1. Avoids CRA</b>	<b>1. Additional bridges add to construction costs.</b>
<b>2. Low number of potential contamination impacts.</b>	<b>2. Doesn't go where current development is proposed</b>
<b>3. No Cultural Resources impacts.</b>	<b>3. Potential to promote sprawl within existing agricultural area.</b>
<b>4. Low residential impacts.</b>	<b>4. Requires two bridge crossings over CSX Railroad</b>
<b>5. Avoids impacting proposed developments.</b>	<b>5. Requires greatest amount of new right-of-way of bypass alternatives.</b>
	<b>6. Only uses a small amount of existing right-of-way.</b>
	<b>7. No direct intersection to CR 609.</b>
	<b>8. Impacts to "prime" farmlands</b>



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor A2 Location





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***SIS 4-Lane Rural Typical Section (Bypass Alternative)***





# **SR 710/Warfield Blvd.**

**Project Development & Environment Study**

## **Corridor A2 - Southern Bypass**

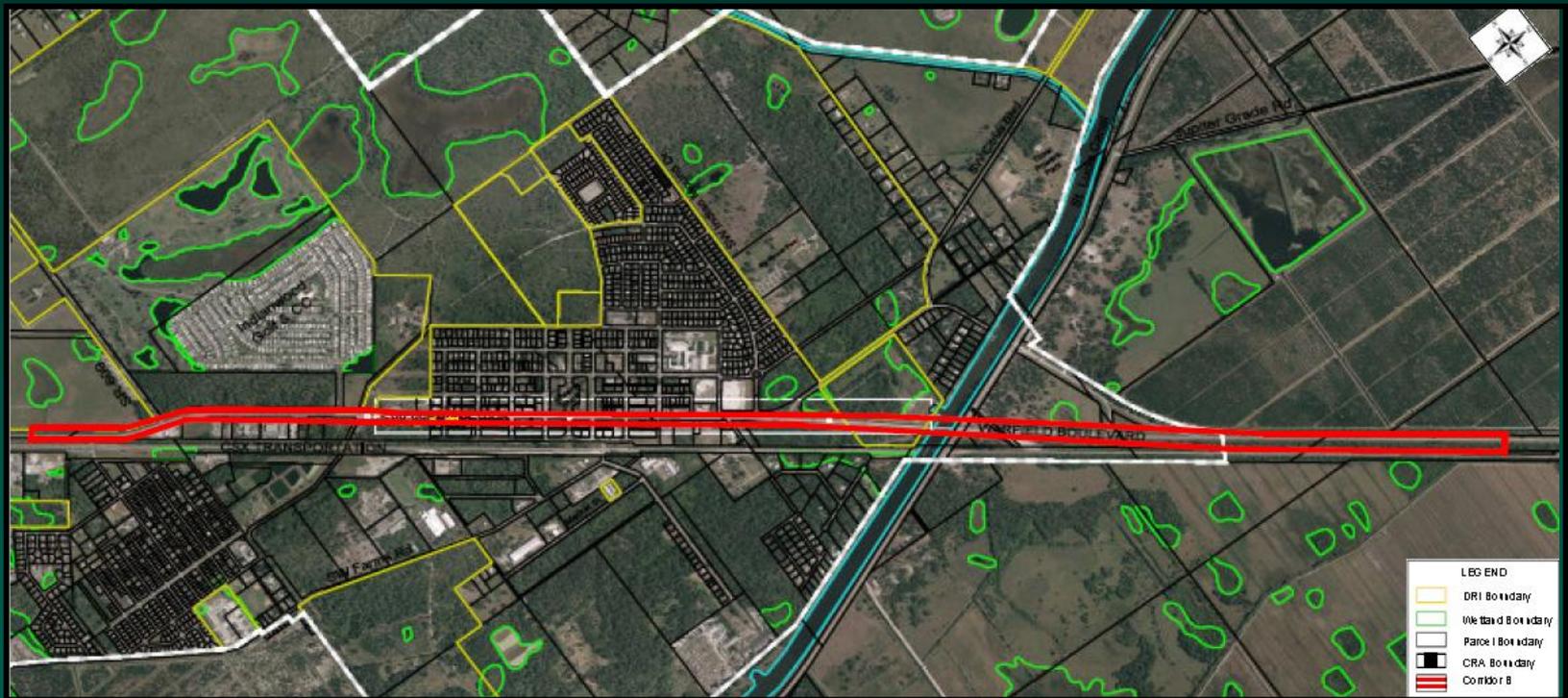
<b><u>POSITIVES</u></b>	<b><u>NEGATIVES</u></b>
<b>1. Minimal impacts to CRA.</b>	<b>1. Additional bridges add to construction costs.</b>
<b>2. Low number of potential contamination impacts.</b>	<b>2. Requires potential interchange at SR 710/CR 609.</b>
<b>3. No Cultural Resources impacts.</b>	<b>3. Potential to promote sprawl within existing agricultural area.</b>
<b>4. Low residential impacts.</b>	<b>4. Requires two bridge crossings over CSX Railroad.</b>
<b>5. Minor impacts to proposed developments.</b>	<b>5. Requires large amount of new right-of-way.</b>
<b>6. Direct connection to CR 609.</b>	<b>6. Only uses a small amount of existing right-of-way.</b>
	<b>7. Impacts existing farmlands.</b>



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor B Location Map

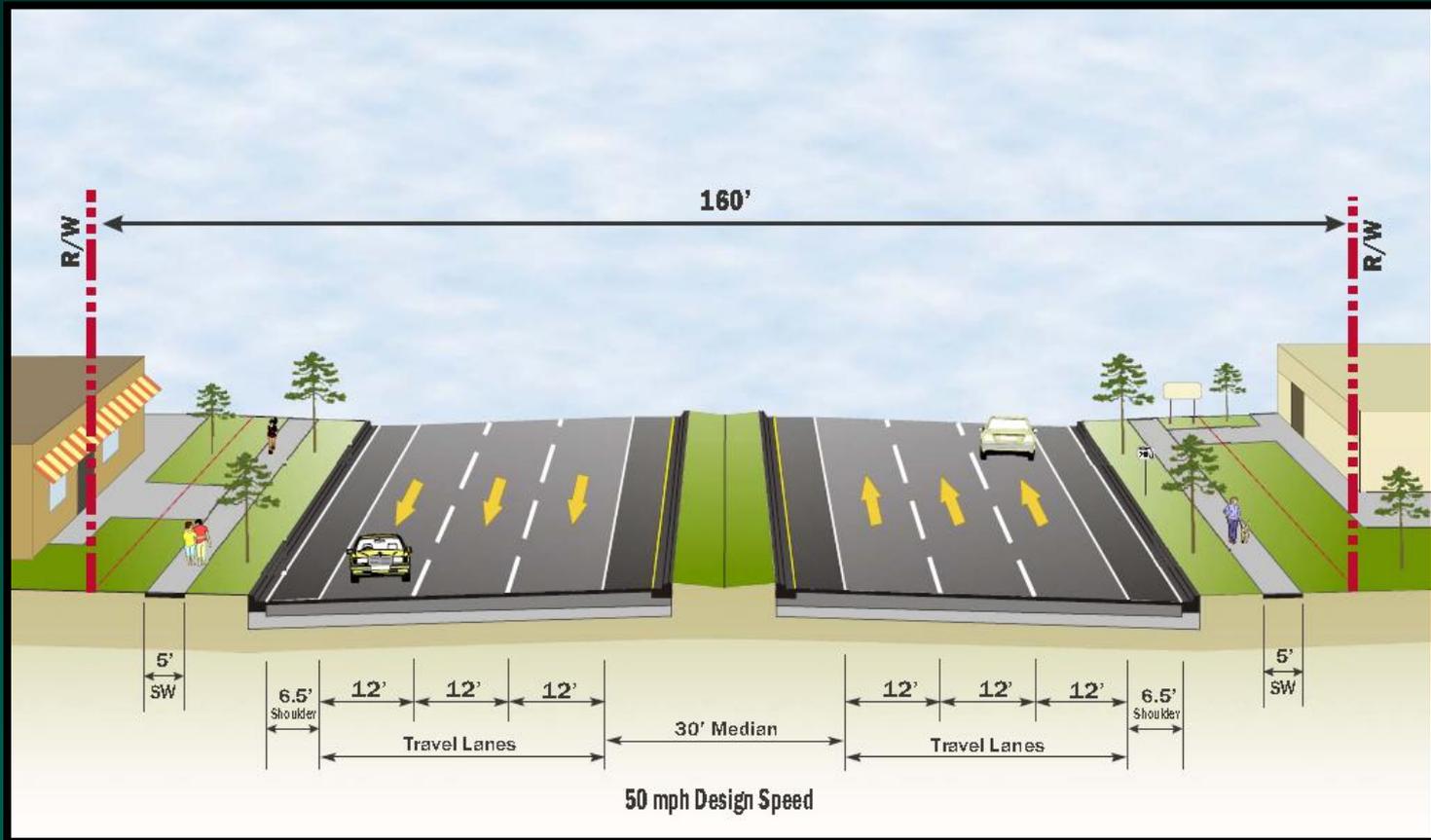




# SR 710/Warfield Blvd.

Project Development & Environment Study

## SIS 6-Lane Urban Typical Section





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Corridor B - Existing SR 710***

<b><u>POSITIVES</u></b>	<b><u>NEGATIVES</u></b>
<b>1. Small amount of new right-of-way required.</b>	<b>1. Requires multiple relocation of medical and other businesses. Indiantown is listed as a medically underserved area.</b>
<b>2. Uses a great deal of existing right-of-way.</b>	<b>2. Greatest number of parcels impacted.</b>
<b>3. Minor wetland impacts.</b>	<b>3. Higher construction costs due to maintenance of traffic.</b>
<b>4. Low wildlife habitat impacts.</b>	<b>4. Higher right-of-way acquisition costs due to business damages and relocations.</b>
<b>5. No involvement with the railroad.</b>	<b>5. Incompatible with CRA "Vision Plan."</b>
<b>6. Short corridor length.</b>	<b>6. High number of potential contamination sites.</b>
<b>7. Directly intersects with CR 609.</b>	



# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Corridor B2 Location Map***

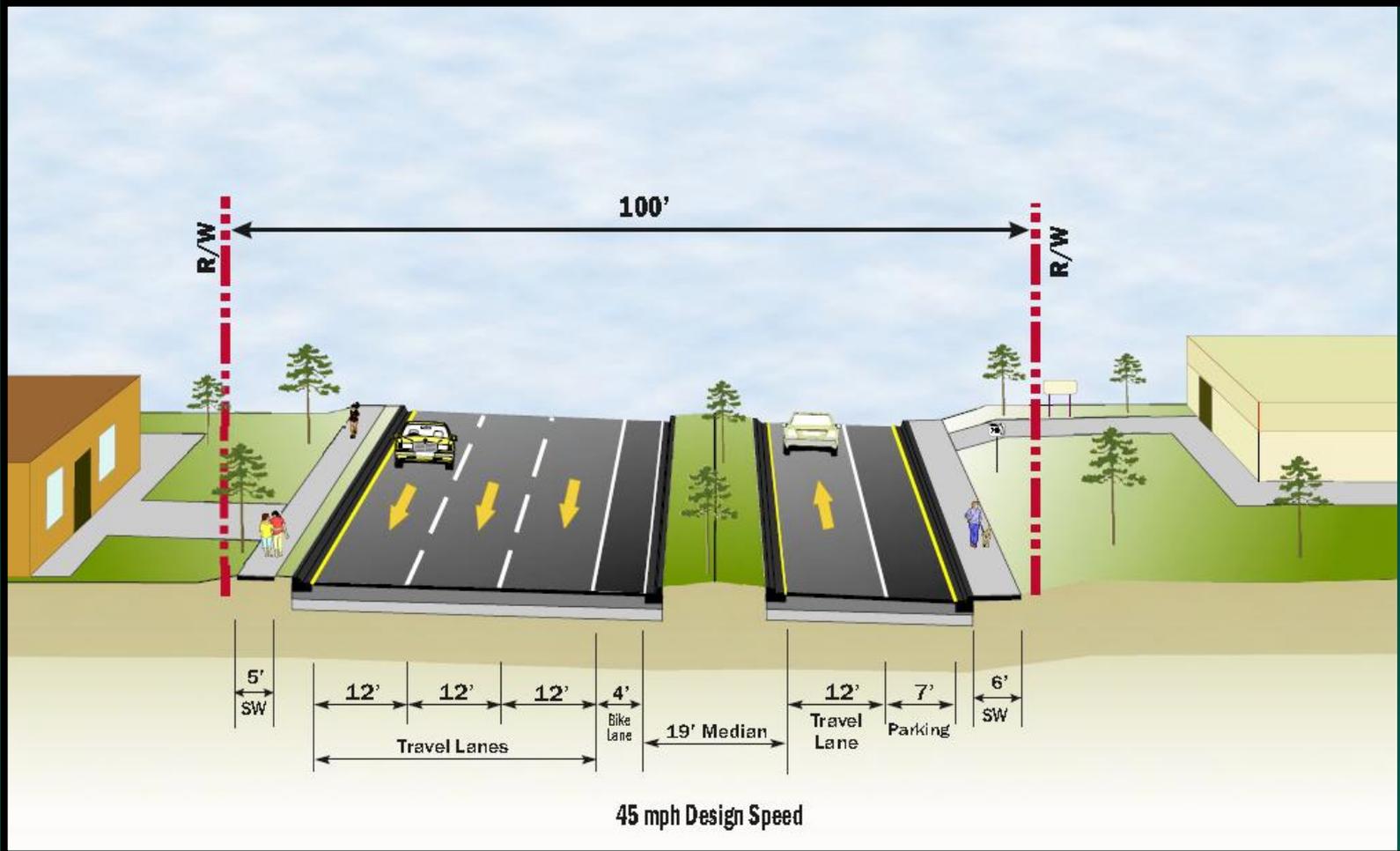




# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor B2 Westbound

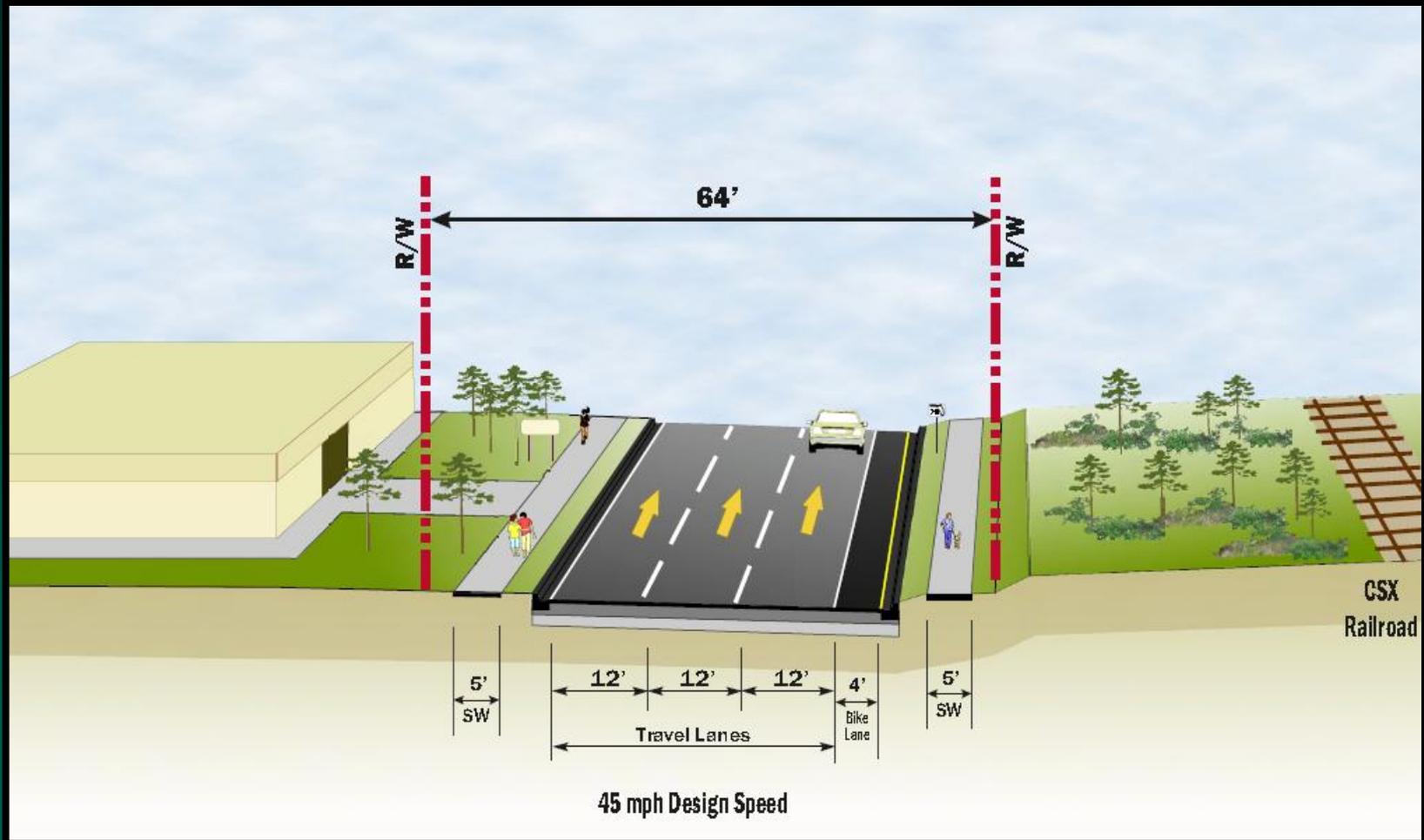




# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor B2 Eastbound





# **SR 710/Warfield Blvd.**

**Project Development & Environment Study**

## **Corridor B2 - One-Way Pair**

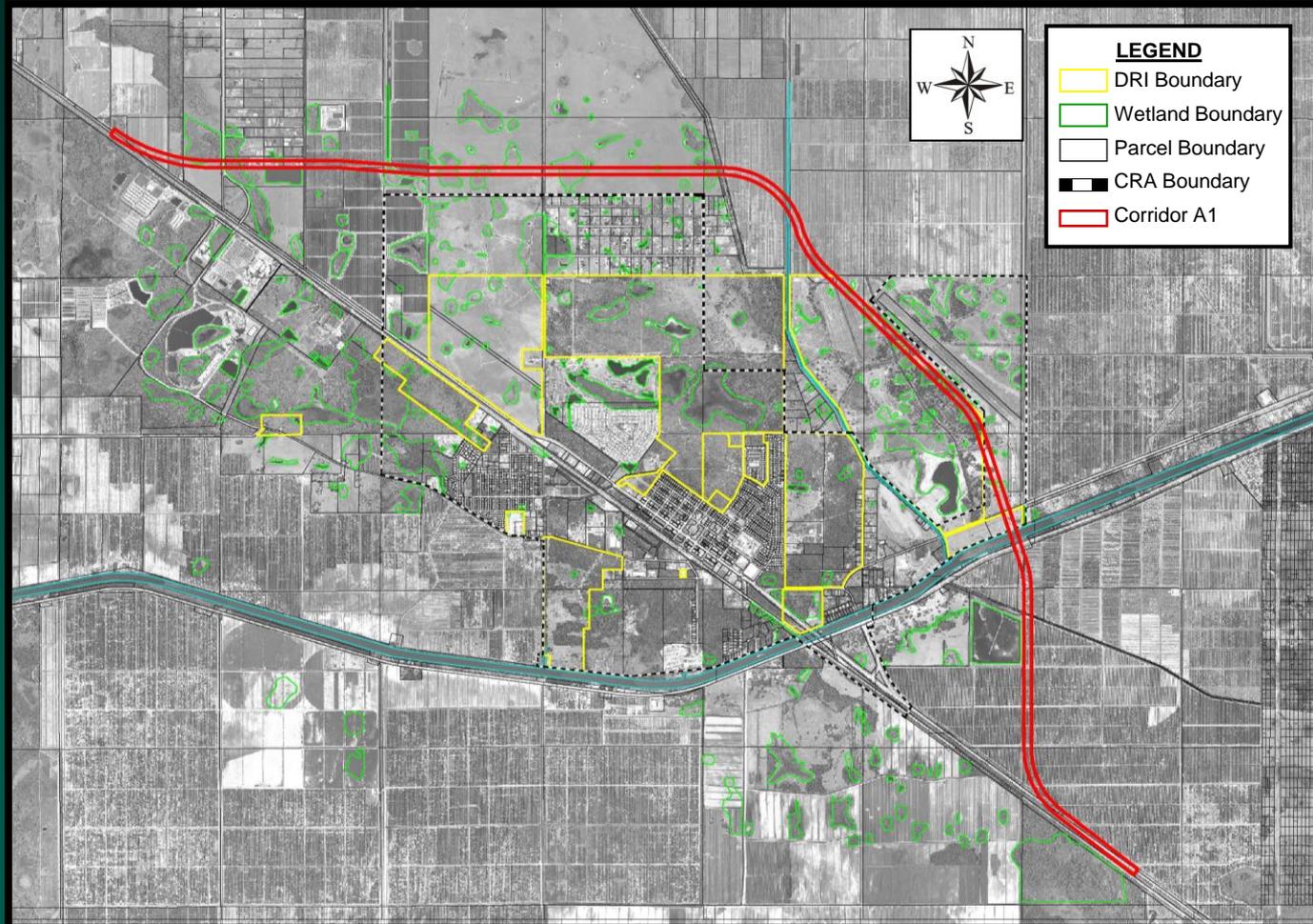
<b><u>POSITIVES</u></b>	<b><u>NEGATIVES</u></b>
<b>1. Least amount of new right-of-way required.</b>	<b>1. Moderate number of parcels impacted</b>
<b>2. Uses a great deal of existing right-of-way.</b>	<b>2. Increased construction costs due to maintenance of traffic.</b>
<b>3. Minor wetland impacts.</b>	<b>3. High number of potential contamination sites.</b>
<b>4. Low wildlife habitat impacts.</b>	
<b>5. No involvement with the railroad.</b>	
<b>6. Directly intersects with CR 609.</b>	
<b>7. Compatible with CRA "Vision Plan".</b>	



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor C Location Map





# SR 710/Warfield Blvd.

Project Development & Environment Study

## SIS 4-Lane Rural Typical Section (Bypass Alternative)





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Corridor C - Northern Bypass***

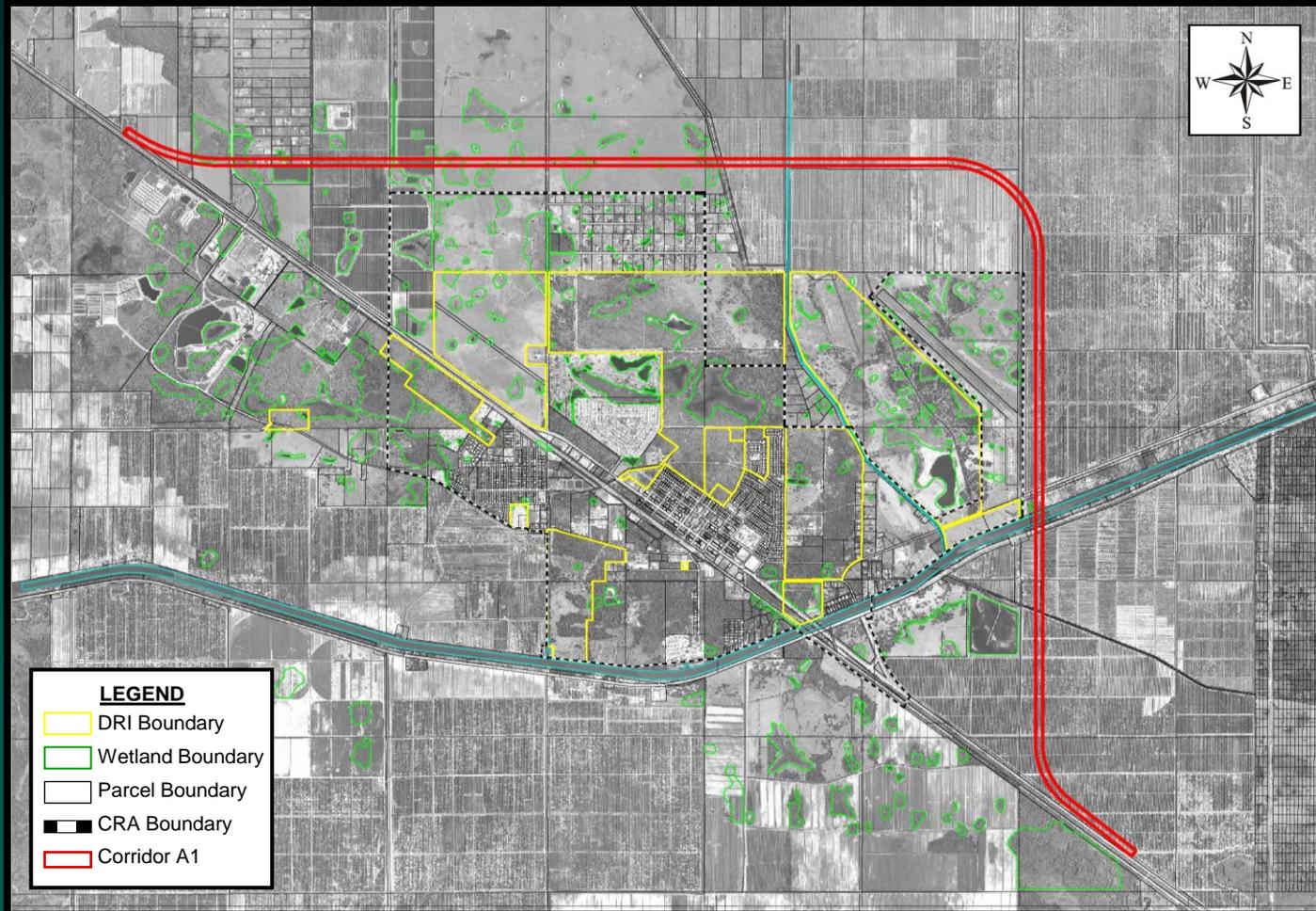
<b><u>POSITIVES</u></b>	<b><u>NEGATIVES</u></b>
<b>1. Shorter length leads to lower construction and right-of-way costs.</b>	<b>1. Impacts to CRA.</b>
<b>2. Low number of parcels impacted.</b>	<b>2. Greatest impacts to proposed developments.</b>
<b>3. Directly intersects with CR 609.</b>	
<b>4. Low Cultural Resources impacts.</b>	<b>3. Moderate wildlife habitat impacts</b>
<b>5. No contamination sites impacted.</b>	<b>4. Largest amount of wetland impacts.</b>
<b>6. No involvement with the railroad.</b>	
<b>7. Provides for future expansion of CR 609 intersection.</b>	



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Corridor C1 Location Map





# SR 710/Warfield Blvd.

Project Development & Environment Study

## SIS 4-Lane Rural Typical Section (Bypass Alternative)





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Corridor C1 - Northern Bypass***

### **POSITIVES**

- 1. Uses portion of C-44 access road easement.**
- 2. No impacts to proposed development.**
- 3. Avoids the CRA area.**
- 4. No residential, commercial or institutional impacts.**
- 5. Directly intersects with CR 609.**
- 6. No involvement with the railroad.**
- 7. Provides for future expansion of CR 609 intersection.**

### **NEGATIVES**

- 1. Moderate wetland impacts.**



# SR 710/Warfield Blvd.

Project Development & Environment Study

## Preliminary Environmental Impacts Comparison Matrix

EVALUATION FACTORS	PRELIMINARY CORRIDOR ALTERNATIVES							
	A	A1	A2	B	B2	C	C1	No-Build
	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
Corridor Length (Miles)	12.07	13.74	16.65	4.10	4.10	9.36	10.34	0.00
Potential Contamination Impacts	Low	Low	Low	High	High	None	Low	None
Potential Direct Wetland Impacts	Moderate	Low	Low	Low	Low	High	Moderate	None
Potential Wildlife & Habitat Impacts	Moderate	Moderate	Moderate	Low	Low	Moderate	Low	None
Potential Cultural Resources Impacts	None	None	None	Low	Low	Low	Low	None
Potential Section 4(f) Impacts	None	None	None	Low	Low	None	None	None



# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Summary of the SR 710 PD&E Study Objectives***

- **Identify a preferred alternative with the approval of FHWA, agencies and locals**
- **Public involvement acceptance**
- **Identify environmental impacts**
- **Obtain ROD/LDCA to be able to move to Final Design and Right of Way Acquisition**



# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***What are the next steps for the EIS?***

- **ETDM Screening**
- **Notice of Intent**
- **Agency/Elected Officials & Public Kickoff Meetings**
- **Agency & Public Purpose & Need Scoping Meetings**
- **SR 710 Corridors Study (continue earlier work)**
- **SR 710 Corridors Public Meeting**
- **Agency & Public Alternatives Scoping Meetings**
- **Alternatives Study**
- **Alternatives Public Meeting**
- **Draft Environmental Impact Statement (DEIS)**
- **Public Hearing**
- **Final Environmental Impact Statement (FEIS)**
- **Record of Decision (ROD) by FHWA**





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Questions and Answers***





# ***SR 710/Warfield Blvd.***

***Project Development & Environment Study***

## ***Project Management***

**Patrick Glass, PE**

**FDOT – District 4**

**3400 W. Commercial Boulevard**

**Fort Lauderdale, FL 33309**

**Phone: 954-777-4681**

**Fax: 954-777-4671**

**Email: [patrick.glass@dot.state.fl.us](mailto:patrick.glass@dot.state.fl.us)**

**Bill Howell, PE**

**H. W. Lochner, Inc.**

**5850 T. G. Lee Boulevard, Suite 320**

**Orlando, FL 32822**

**Phone: 407-482-6600**

**Fax: 407-482-6858**

**Email: [bhowell@hwlochner.com](mailto:bhowell@hwlochner.com)**