

**FINAL  
WETLANDS AND THREATENED AND  
ENDANGERED SPECIES MEMORANDUM**

**PROJECT DEVELOPMENT AND ENVIRONMENT STUDY  
SR 60/ADAMO DRIVE  
FROM WEST OF 50<sup>TH</sup> STREET (US 41)  
TO EAST OF FALKENBURG ROAD  
HILLSBOROUGH COUNTY, FLORIDA**

**Work Program Item Segment No: 405525 1  
Federal-Aid Program No: 1812 018 U**



Prepared by:

**Florida Department of Transportation  
District Seven  
11201 North McKinley Drive  
Tampa, Florida 33612-6456**

**September 2005**

## 1.0 INTRODUCTION

The Florida Department of Transportation (FDOT) has conducted a Project Development and Environment (PD&E) Study to evaluate capacity improvements for SR 60 from west of 50<sup>th</sup> Street to east of Falkenburg Road in Hillsborough County, Florida.

The project was divided into four distinct segments, as shown in Figure 2-1 and described below:

- Segment 1 – extends from west of 50<sup>th</sup> Street to east of the CSX railroad, a distance of approximately 1.53 miles;
- Segment 2 – from east of the CSX railroad to east of 78<sup>th</sup> Street, a distance of approximately 1.70 miles;
- Segment 3 – from east of 78<sup>th</sup> Street to east of Phillip Lee Boulevard, a distance of approximately 1.47 miles; and
- Segment 4 - from east of Phillip Lee Boulevard to east of Falkenburg Road, a distance of approximately 0.77 miles.

The total project length is approximately 5.47 miles. The proposed improvements include widening the existing four-lane divided facility and an evaluation of potential grade separations at 50<sup>th</sup> Street/CSX railroad and US 301.

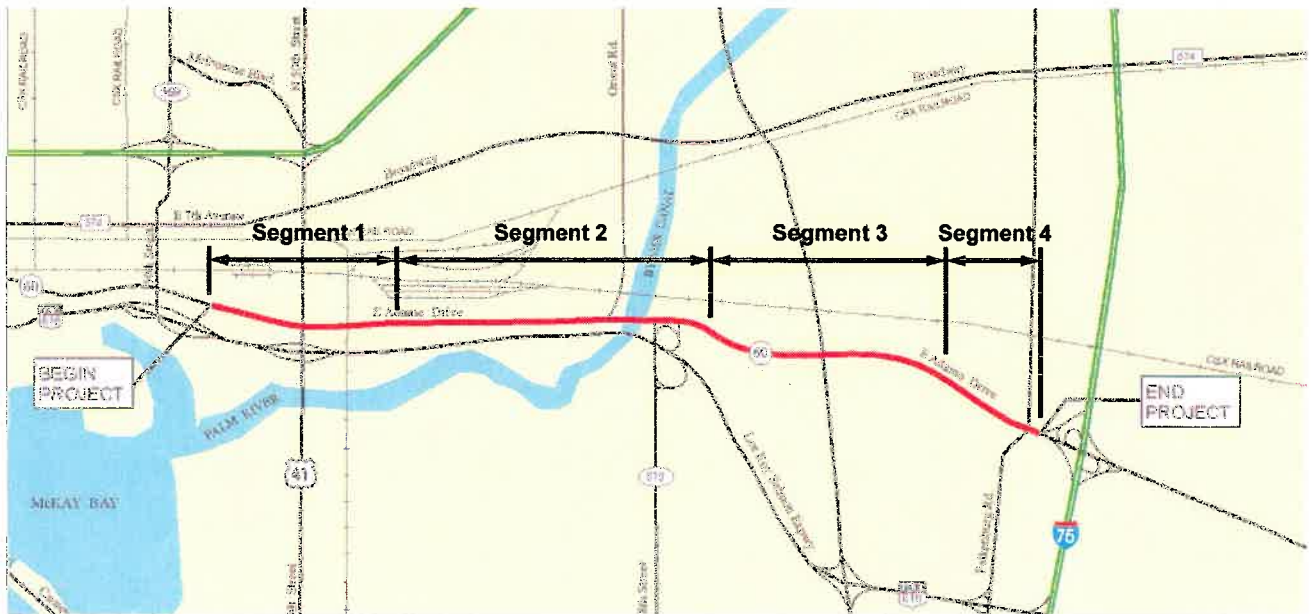


Figure 1-1: Project Location Segment Map

## **PURPOSE**

The objectives of this PD&E Study were to develop a multi-lane improvement that is economically efficient and environmentally sound. This study documents the results of the environmental and engineering analyses conducted in order to assist the FDOT and the Federal Highway Administration (FHWA) in reaching a decision on the location and conceptual design for the improvements to SR 60. In addition, this study complies with the requirements of the National Environmental Policy Act (NEPA) and other applicable requirements to qualify the proposed project for Federal funding.

This report documents the need for improvements and the procedures used to evaluate the alternatives developed for this study. Using the engineering and environmental data collected for the project, a comparison of the Build Alternative versus the No-Build Alternative is detailed in a matrix format that identifies the effects that each alignment has on the community and environment. The design year for the proposed improvements is 2030.

## **PROJECT DESCRIPTION**

SR 60 is an east/west facility with a functional classification of urban principle arterial-other. The study corridor traverses an array of urban land uses including industrial and commercial development with inter-mixed parcels of vacant land. There are existing wetlands systems both within and adjacent to the existing right-of-way.

From west of 50th Street to Phillip Lee Boulevard, SR 60 is a four-lane divided facility with a depressed 40-foot median, 5-foot inside unpaved shoulders, 10-foot outside shoulders with 5-foot paved and open roadside ditches. The right-of-way width varies from 128 feet to 228 feet. The posted speed limit is 50 miles per hour. From Phillip Lee Boulevard to I-75, SR 60 begins as a four-lane divided facility and develops into an eight-lane divided section with a depressed 40-foot median, 5-foot inside unpaved shoulders, 10-foot outside shoulders with 5-foot paved and open roadside ditches. There are two eastbound travel lanes from Phillip Lee Blvd. to west of Business Entrance where a third lane is added. A fourth eastbound lane is added east of Business Entrance and continues east to the I-75 interchange. The four westbound travel lanes reduce to three lanes at the I-75 southbound on-ramp. The third lane drops as a right-turn lane at Phillip Lee Blvd. The right-of-way width for this segment varies from 132 feet to 300 feet. The posted speed limit is 50 miles per hour.

There are six signalized intersections within the study limits. They are:

- 50<sup>th</sup> Street;
- N. Orient Road;
- 78<sup>th</sup> Street;
- US 301;
- Business Entrance; and
- Falkenburg Road.

## **2.0 NEED FOR IMPROVEMENT**

### **SYSTEM LINKAGE**

SR 60 is a major east west corridor that extends through central Hillsborough County. Within the FDOT District Seven, it runs from Mandalay Avenue in Clearwater eastward to the Hillsborough / Polk County Line. To accommodate future traffic within the corridor, the existing roadway must be widened to six or eight lanes in the future.

### **TRANSPORTATION DEMAND**

Future-year traffic projections were developed for the year 2030 based on the Tampa Bay Regional Planning Model (TBRPM) and adjusted using design traffic procedures adopted by FDOT. Within the study area, the projected Average Annual Daily Traffic Volumes (AADT) are projected to grow annually, resulting in a future-year LOS of E or F along mainline SR 60. This is below the acceptable LOS Standard of D for this facility. Based on these results, which are contained in the *Draft Technical Memorandum* (August 2004), additional capacity will be required through the project area.

### **CONSISTENCY WITH TRANSPORTATION DEMAND**

Currently, the Hillsborough County's Adopted 2025 Long Range Transportation Plan (LRTP) and the County's Comprehensive Plan shows the segment from US 301 to Faulkenburg Road to be improved from four to six lanes. Resurfacing improvements are currently programmed from 50<sup>th</sup> Street to US 301. There is no interim safety or intersection improvements currently programmed within the project limits.

### **SAFETY**

With the increase in congestion forecasted for this segment of SR 60, an increase in accidents can be expected without capacity improvements within the project limits. Providing additional capacity, intersection improvements and implementing access management, the safety within the project limits will be improved.

## **3.0 WILDLIFE**

This project has been evaluated for impacts to wildlife and habitat resources, including protected species, in accordance with 50 CFR, Part 402 and the Endangered Species Act of 1973, as amended. The project area was surveyed during May and June of 2004. The study corridor is located in an urban area comprised mainly of commercial and light industrial services with a general lack of native habitat. Although there are parcels of undeveloped areas, they are very small in size and not connected to any corridors or natural linkages. The natural drainage feature, Six Mile Creek, was dredged and structures were erected for flood control purposes by the Army Corps of Engineers. This feature is now known as the Tampa Bypass Canal. A more recent use of this water body is an alternative



source of potable water upstream of SR 60 behind the water control structures. The immediate area around the SR 60 Bridge is a tidal body of water.

The field reconnaissance revealed no listed species present within or along the study corridor. The bridge spanning the Tampa Bypass Canal will be widened to match the existing structure; therefore no impacts to the resource are anticipated. The Department obtained written concurrence from the United States Fish and Wildlife Service (9/15/2004) and the National Marine Fisheries Service (9/22/2004) that the proposed project would not adversely affect protected resources providing that a manatee and sea turtle awareness program is implemented during the construction activities. The concurrence letters are attached to this memorandum following the Wetland Rapid Assessment Procedure (WRAP) data sheet.

#### **4.0 WETLAND IMPACTS**

The proposed improvements will impact roughly 0.3 acres of wetlands (Wetland #4) and 1.55 acres of Other Surface Waters (ditches) with construction of the mainline. It is anticipated that the stormwater facilities will impact 1.61 acres of wetlands.

Impacts from roadway improvements will be confined to the roadside edges and for possible culvert extensions. It is anticipated that only minor impacts will occur to the upland cut roadside ditches and culverts identified along the study corridor. Improvements to Segment 1, Segment 2, and all but Alternative #2 of Segment 3 are anticipated to relocate the existing ditches. The water conveyance systems along the facility for Alternative #2 in Segment 3 and Segment 4 will be replaced with curb and gutter.

#### **WETLAND MITIGATION**

There are no practical alternatives to this construction in wetlands. All practicable measures will be used to reduce harm to wetlands. Short term construction related impacts will be minimized by the adherence to FDOT's "Standard Specifications for Road and Bridge Construction".

There are several options available for FDOT to compensate for the anticipated wetland impacts. FDOT may participate in a public or private mitigation bank provided wetland credits are available for use on this project during the permitting and final design phase. Another option would be to create, restore, enhance, or preserve wetlands in the project's watershed. Depending on the type or combination of types employed, the offsetting ratios will vary considerably. Adhering to SWFWMD's Environmental Resource Permitting Information Manual, mitigation ratio guidelines will be 2:1 to 5:1 (created/restored) for forested impacts and 1.5:1 to 4:1 for non-forested impacts. The estimated ratio for enhancement will range from 4:1 to 20:1 and the ratio for wetland preservation will be in the range of 10:1 to 60:1.

Another option available to the FDOT would be to utilize Chapter 373.4137 of the Florida Statutes. This legislation allows the Department to offset wetland impacts with a monetary

payment through the Department of Environmental Protection to the Southwest Florida Water Management District. The Water Management District will then provide a regional wetland mitigation plan on an annual basis to be approved by the Florida State Legislature, which will include mitigation for specific FDOT project impacts.

## **FUNCTIONAL ANALYSIS**

The WRAP analyses were conducted to assess wetland functions and values for the representative wetlands within the study corridor utilizing Technical Publication REG-001. The final rating is expressed numerically with a number between 0 and 1, with 1 representing the highest quality wetland; 0 reflecting low quality.



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

6620 Southpoint Drive, South  
Suite 310  
Jacksonville, Florida 32216-0912

IN REPLY REFER TO:

FWS/R4/ES-JAFL/04-1831

September 15, 2004

Florida Department of Transportation  
Environmental Management Office  
11201 North McKinley Drive  
Tampa, Florida 33612-6456  
Attn: Todd Mecklenborg, Biologist

FWS Log. No: 04-1831  
Applicant: Florida Dept. of Transportation  
Project Name: State Rd. 60 (E. Adamo Drive)  
County: Hillsborough

Dear Mr. Mecklenborg:

The U.S. Fish and Wildlife Service (Service) has reviewed the project plans for the above referenced permit application. The Service received a copy of the Project Development and Environment Study Roadway Plans for the proposed project on August 16, 2004. We submit the following comments in accordance with the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*), Section 7 of the Endangered Species Act of 1973 (Act), as amended (16 U.S.C. 1531 *et seq.*), and the Marine Mammal Protection Act of 1972 (MMPA), as amended (16 U.S.C. 1361 *et seq.*).

The proposed project consists of widening and other improvements to East Adamo Drive (SR 60) from just west of 50<sup>th</sup> Street to east of Falkenburg Road in east Tampa, in Hillsborough County, Florida. East Adamo Drive currently is a divided 4-lane roadway and will be expanded to a 6-lane or 8-lane divided facility, primarily utilizing the existing alignment's right-of-way. The total distance of the project is 4.218 miles.

The project's study corridor lies in a highly urbanized industrial area of east Tampa, and lined with numerous industrial and commercial businesses and warehouses. A minimal amount of upland vegetation and wetlands are present within the project's existing right-of-way. The project crosses the Tampa Bypass Canal, a tidal tributary that flows into McKay Bay. A site visit was conducted by the Service on August 10, 2004.



"NMFS HCDPC"  
<NMFS.HCDPC@noaa.gov>  
09/22/2004 09:50 AM

To DOT Mecklenborg <todd.mecklenborg@dot.state.fl.us>,  
"Sramek Mark" <Mark.Sramek@noaa.gov>, "Hawk Eric"  
<Eric.Hawk@noaa.gov>

cc

bcc

Subject 405525 1

RE: WPI Segment Number: 405525 1/EAP Number 1812-018-U  
SR 60 (Adamo Drive), from west of 50th St. to east of  
Falkenburg Rd.,  
Hillsborough County

The National Marine Fisheries Service (NOAA Fisheries) has reviewed your letter and study information dated September 8, 2004, regarding the above Florida Department of Transportation (FDOT) highway project. FDOT proposes to widen State Road 60 over the Palm River, located in Hillsborough County, Florida. The project is necessary to accommodate anticipated future traffic needs.

NOAA Fisheries conducted a site inspection of the project area on September 16, 2004, and verified the presence of a narrow mangrove fringe and shoreline riprap material. Based upon information contained in your letter, any impacts to mangrove fringe and riprap material along the shoreline will be mitigated through Florida Statute Chapter 373.4137 and coordinated with state and federal regulatory agencies. Therefore, we anticipate that any adverse effects that might occur on marine and anadromous fishery resources would be minimal and, therefore, do not object to the proposed roadway widening activities.

We appreciate the opportunity to provide you with our comments. Please direct related comments, questions, or correspondence to Mr. Mark Sramek in our St. Petersburg, Florida office. Mr. Sramek may be contacted by calling (727) 570-5311, or in writing to the letterhead address above. Any Endangered Species Act issues related to this project should be directed to Eric Hawk at the above address or by calling (727)



570-5312. NMFS.HCDPC.wcf

## ENDANGERED SPECIES ACT

Due to the highly urbanized nature of the existing corridor, an extensive survey for federally listed species was not completed by FDOT. In general, the Service assumes that listed species occur in suitable ecological communities and recommend site surveys to determine the presence or absence of listed species. Field and literature reviews were completed by FDOT personnel in the spring and summer of 2004, and no listed species were observed or documented during those reviews. Based upon these results, FDOT, as a designee of the Federal Highway Administration, has determined that the proposed improvements to East Adamo Drive will have "no effect" on federally listed species. FDOT has agreed to utilize the Service's Standard Manatee Construction Guidelines and incorporate a Manatee and Sea Turtle Watch Program during construction. No blasting or demolition activities are anticipated during the project. Manatees and/or sea turtles may be present in the bypass canal, therefore, with the aforementioned protection guidelines for manatees and sea turtles in place, the Service has determined that the project "may affect, but not adversely affect" manatees or sea turtles.

Although this does not represent a biological opinion as described in Section 7 of the Act, it does fulfill the requirements of the Act and no further action is required. If modifications are made in the project or additional information becomes available on listed species, re-initiation of consultation may be required.

## FISH AND WILDLIFE COORDINATION ACT

The Service believes this project will not significantly affect other fish and wildlife resources; therefore, we do not object to issuance of this permit. If you have any questions regarding this response, please contact Mr. CalLee Davenport of my staff at (904) 232-2580, ext. 126.

Sincerely,



Don Palmer  
Acting Assistant Field Supervisor

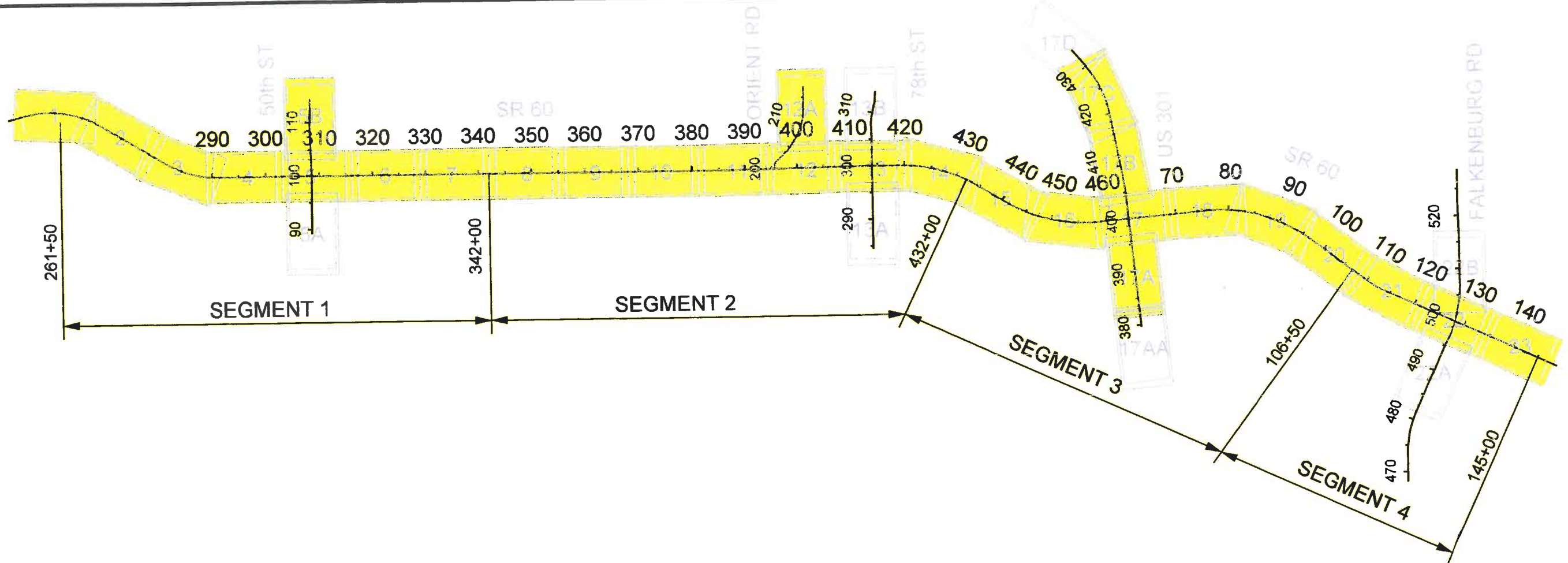
*for*

Enclosure

STANDARD MANATEE PROTECTION CONSTRUCTION CONDITIONS  
FOR AQUATIC-RELATED ACTIVITIES

The permittee/grantee/lessee shall ensure that:

1. The contractor instructs all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s), and shall implement appropriate precautions to ensure protection of the manatee(s).
2. All construction personnel are advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, the Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act. The permittee and/or contractor may be held responsible for any manatee harmed, harassed, or killed as a result of construction activities.
3. Prior to commencement of construction, the prime contractor involved in the construction activities shall construct and display at least two temporary signs (placard) concerning manatees. For all vessels, a temporary sign (at least 8½" x 11") reading "Manatee Habitat/Idle Speed In Construction Area" will be placed in a prominent location visible to employees operating the vessels. In the absence of a vessel, a temporary sign (at least 2' x 2') reading "Warning: Manatee Habitat" will be posted in a location prominently visible to land-based, water-related construction crews.  
  
A second temporary sign (at least 8½" x 11") reading "Warning, Manatee Habitat: Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Marine Patrol at 1-800-DIAL-FMP" will be located prominently adjacent to the displayed issued construction permit. Temporary notices are to be removed by the permittee upon completion of construction.
4. Siltation barriers are properly secured so that manatees cannot become entangled, and are monitored at least daily to avoid manatee entrapment. Barriers must not block manatee entry to or exit from essential habitat.
5. All vessels associated with the project operate at "idle speed/no wake" at all times while in the construction area and while in waters where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water, whenever possible.
6. If manatees are seen within 100 yards of the active daily construction/dredging operation, all appropriate precautions shall be implemented to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment.
7. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Marine Patrol (1-800-DIALFMP) and to the Florida Fish and Wildlife Conservation Commission, Protected Species Management at (850) 922-4330.
8. The contractor maintains a log detailing sightings, collisions, or injuries to manatees should they occur during the contract period. A report summarizing incidents and sightings shall be submitted to the Florida Fish and Wildlife Conservation Commission, Protected Species Management, 620 South Meridian Street, Tallahassee, Florida 32399, and to the U.S. Fish and Wildlife Service, 6620 Southpoint Drive South # 310, Jacksonville, Florida 32216-0912. This report must be submitted annually or following the completion of the project, if the contract period is less than a year.



Segment	Location	Station	Station Equation		Length	
			Back	Ahead	Feet	Miles
1	West of 50th Street	261+50			8,050.06	1.525
	50th Street	308+55.73				
	CSX Railroad	322+09.31				
	East of CSX Railroad	342+00				
2			334+89.09	334+89.03	8,999.48	1.704
			387+91.23	387+90.86		
	Orient Road	395+70.87				
	Begin Bridge	404+55.63				
	Palm River					
	End Bridge	410+98.62				
	78th Street	414+00.49				
3			416+35.54	416+36.43	7,761.88	1.470
			434+51.06	434+67.82		
			458+91.64	458+71.47		
			463+95.29	60+86.82		
4	US 301	61+10.64			4,050.00	0.767
	Philip Lee Boulevard	106+50				
	Falkenburg Road	128+15.74				
			East of Falkenburg Road	145+00		
Total Length =					28,861.42	5.466

Intersector	Station	Station Equation		Length	
		Back	Ahead	Feet	Miles
50th Street	308+55.73			1,353.57	0.256
CSX Railroad	322+09.31			7,361.99	1.394
		334+89.09	334+89.03		
		387+91.23	387+90.86		
Orient Road	395+70.87			884.77	0.168
Begin Bridge	404+55.63			642.99	0.122
Palm River				301.87	0.057
End Bridge	410+98.62				
78th Street	414+00.49			5,021.13	0.951
		416+35.54	416+36.43		
		434+51.06	434+67.82		
		458+91.64	458+71.47		
		463+95.29	60+86.82		
US 301	61+10.64			6,705.11	1.270
Falkenburg Road	128+15.74				
Total Length =				22,271.43	4.218

scales





06/18/2005



**BEGIN PROJECT**

**39th S**

255

260

0 20 100  
Feet

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10500 UNIVERSITY CENTER DRIVE, SUITE 155  
TAMPA, FLORIDA 33612

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- 110 BASELINE & STATIONS
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- ROADWAY
- BRIDGE

- WETLAND
- SURFACE WATER
- STORMWATER POND
- BUSINESS RELOCATION
- POTENTIAL CONTAMINATION SITE

AERIAL  
FLIGHT  
2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**

COUNTY: HILLSBOROUGH

WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**SEGMENT 1**

SHEET:  
1





06/18/2005

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 10500 UNIVERSITY CENTER DRIVE, SUITE 155  
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 TEL: (813) 972-9444  
 FAX: (813) 972-9114  
 WWW.TYLIN.COM

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- BRIDGE
- SIDEWALK

- WETLAND
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AERIAL FLIGHT 2002

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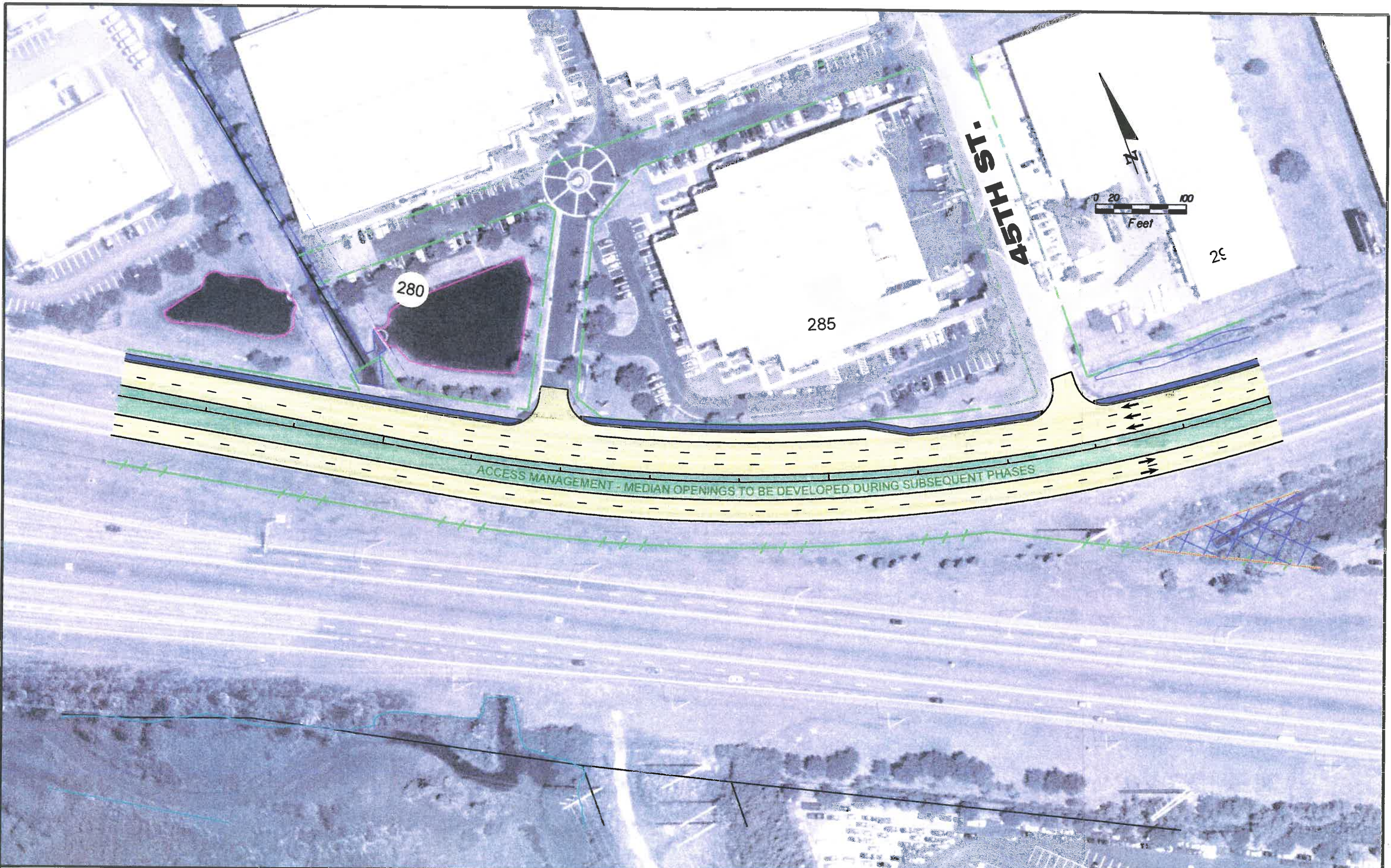
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**RECOMMENDED ALTERNATIVE SEGMENT 1**





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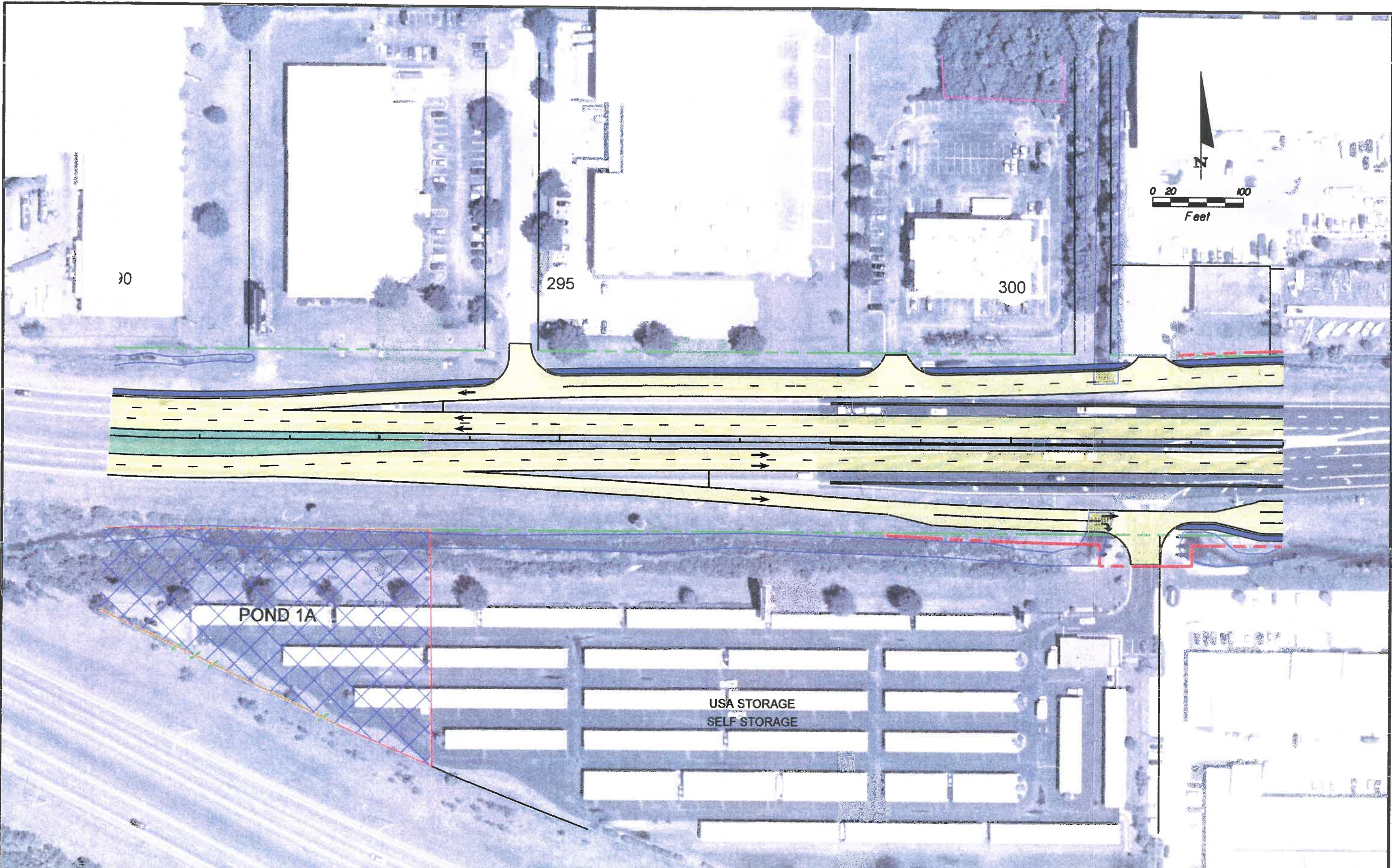
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**RECOMMENDED ALTERNATIVE**  
**SEGMENT 1**

SHEET:  
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COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**SEGMENT 1**

SHEET:  
 4



INSPECTION  
TRAINING  
ASSOC.

T.A.  
MAHONEY



305

PARKING  
FURNITURE

310 SHELL



315



CROSTOWN  
BUSINESS CENTER

**TYLIN** INTERNATIONAL

10500 UNIVERSITY CENTER DRIVE, SUITE 155  
TAMPA, FLORIDA 33612  
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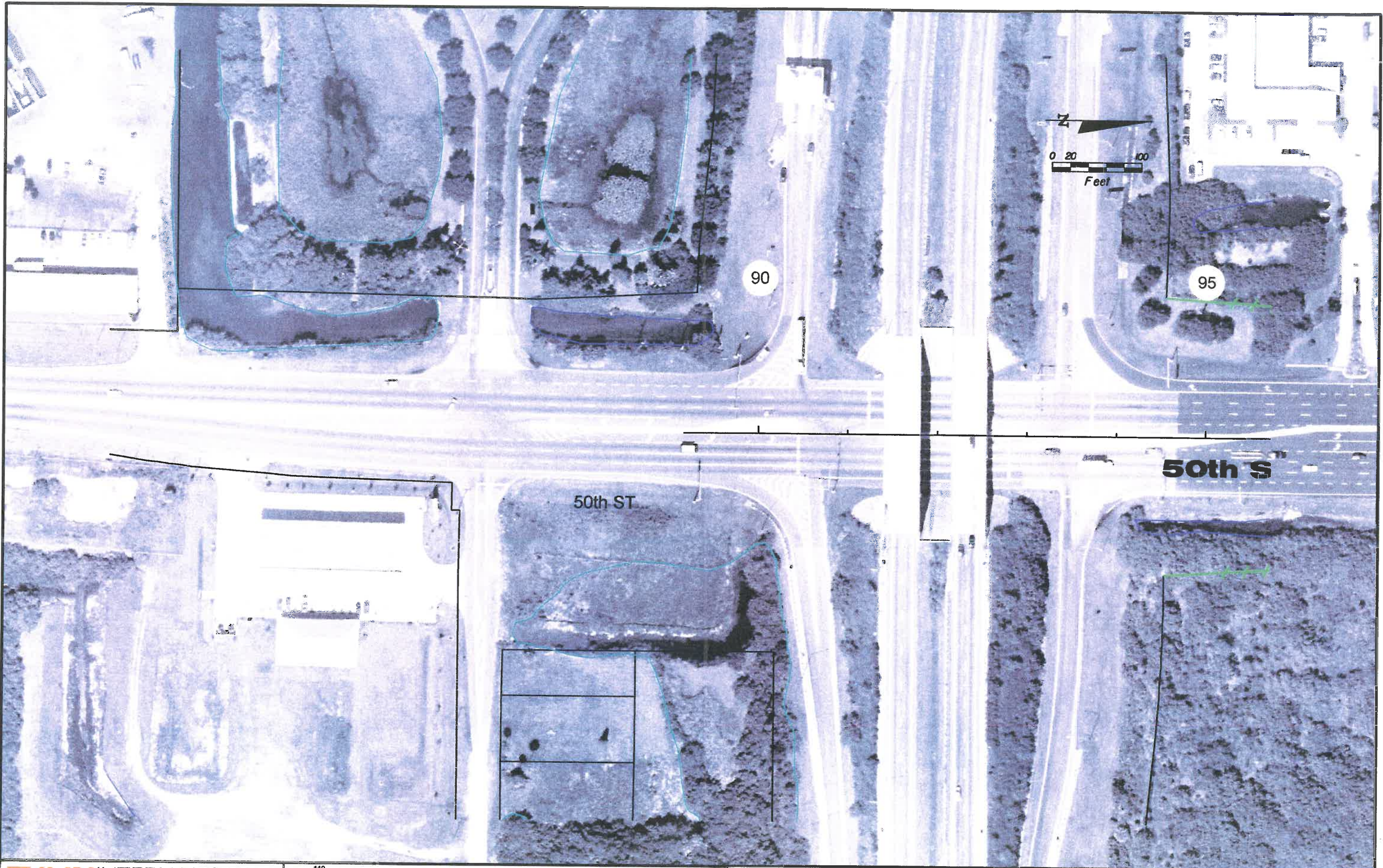


**RECOMMENDED ALTERNATIVE  
SEGMENT 1**

SHEET:  
5

06/18/2005





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- |  |                       |  |                              |
|--|-----------------------|--|------------------------------|
|  | BASELINE & STATIONS   |  | WETLAND                      |
|  | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|  | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|  | ROADWAY               |  | BUSINESS RELOCATION          |
|  | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |
|  | SIDEWALK              |  |                              |

AERIAL FLIGHT 2002

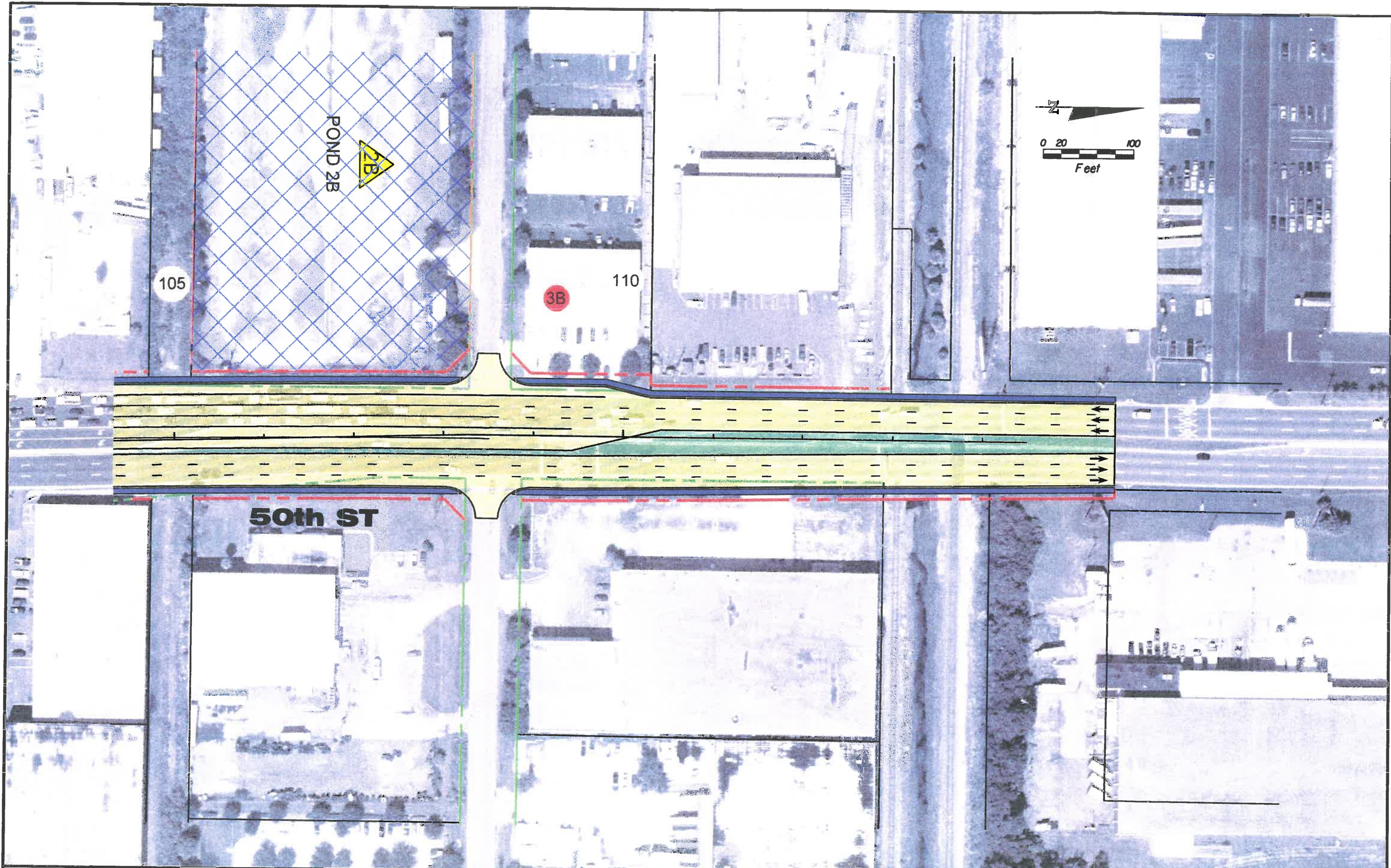
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**RECOMMENDED ALTERNATIVE SEGMENT 1**





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 George F. Young, Inc.

- |         |                       |   |                              |                    |
|---------|-----------------------|---|------------------------------|--------------------|
| — 110 — | BASLINE & STATIONS    | — | WETLAND                      | AERIAL FLIGHT 2002 |
| —       | EXISTING RIGHT-OF-WAY | — | SURFACE WATER                |                    |
| —       | PROPOSED RIGHT-OF-WAY | ● | STORMWATER POND              |                    |
| —       | ROADWAY               | ▲ | BUSINESS RELOCATION          |                    |
| —       | BRIDGE                |   | POTENTIAL CONTAMINATION SITE |                    |
| —       | SIDEWALK              |   |                              |                    |

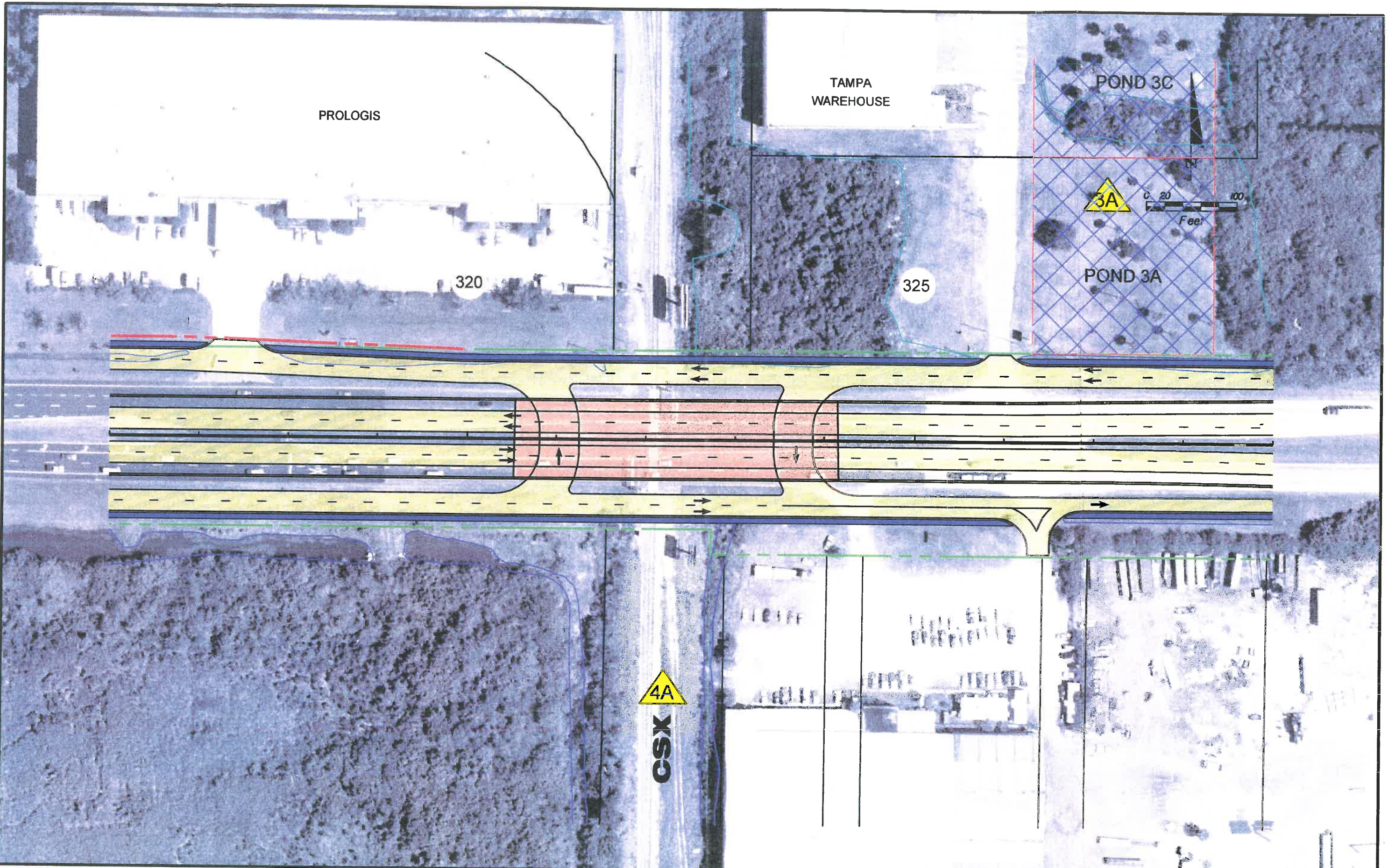
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**RECOMMENDED ALTERNATIVE SEGMENT 1**

SHEET: 5B





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110  
 BASELINE & STATIONS  
 EXISTING RIGHT-OF-WAY  
 PROPOSED RIGHT-OF-WAY  
 ROADWAY  
 BRIDGE  
 SIDEWALK

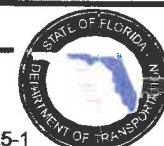
WETLAND  
 SURFACE WATER  
 STORMWATER POND  
 BUSINESS RELOCATION  
 POTENTIAL CONTAMINATION SITE

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH

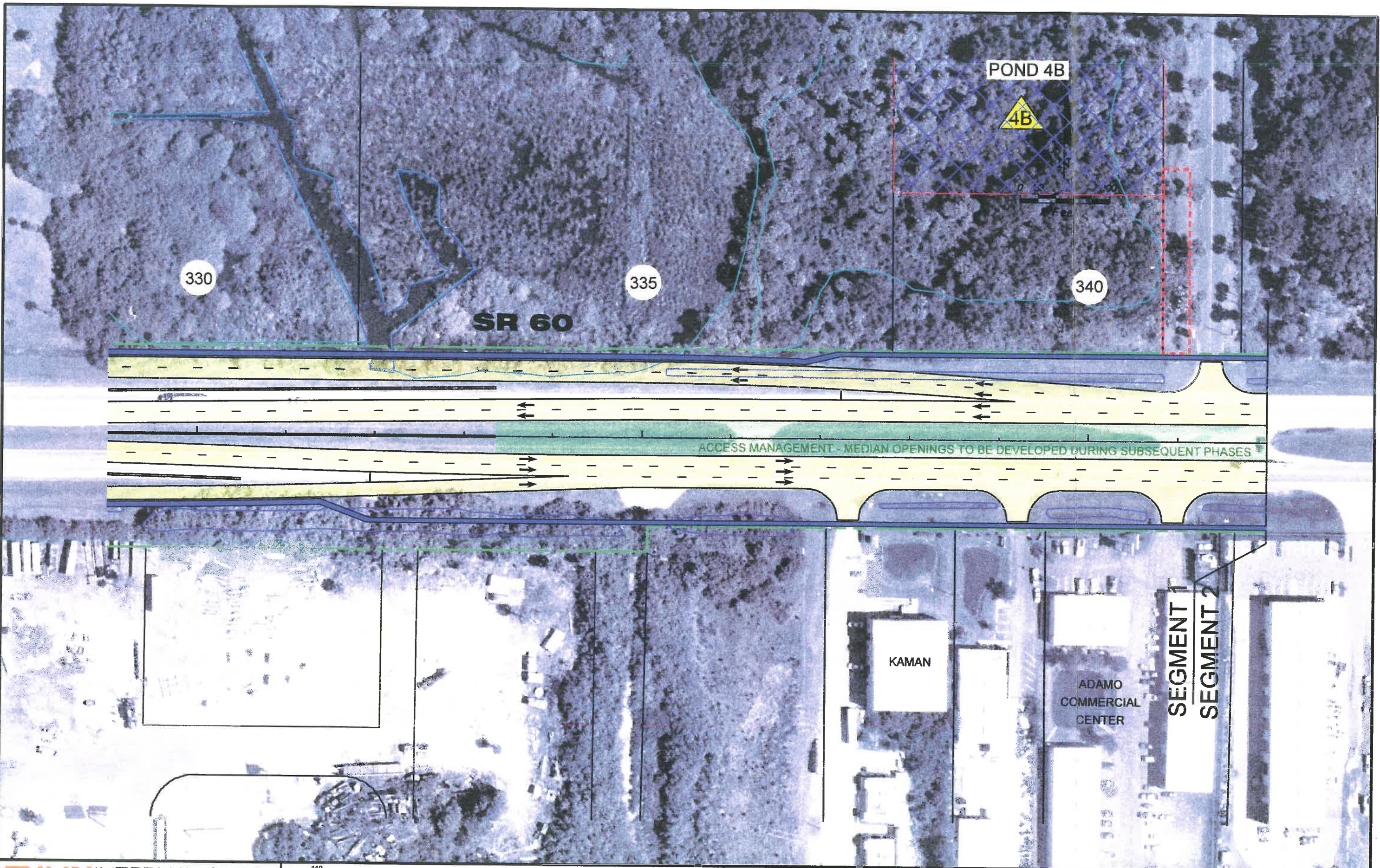
WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**SEGMENT 1**

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 6





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|-----|-----------------------|--|------------------------------|
| 110 | BASLINE & STATIONS    |  | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|     | ROADWAY               |  | BUSINESS RELOCATION          |
|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK              |  |                              |

AERIAL FLIGHT 2002

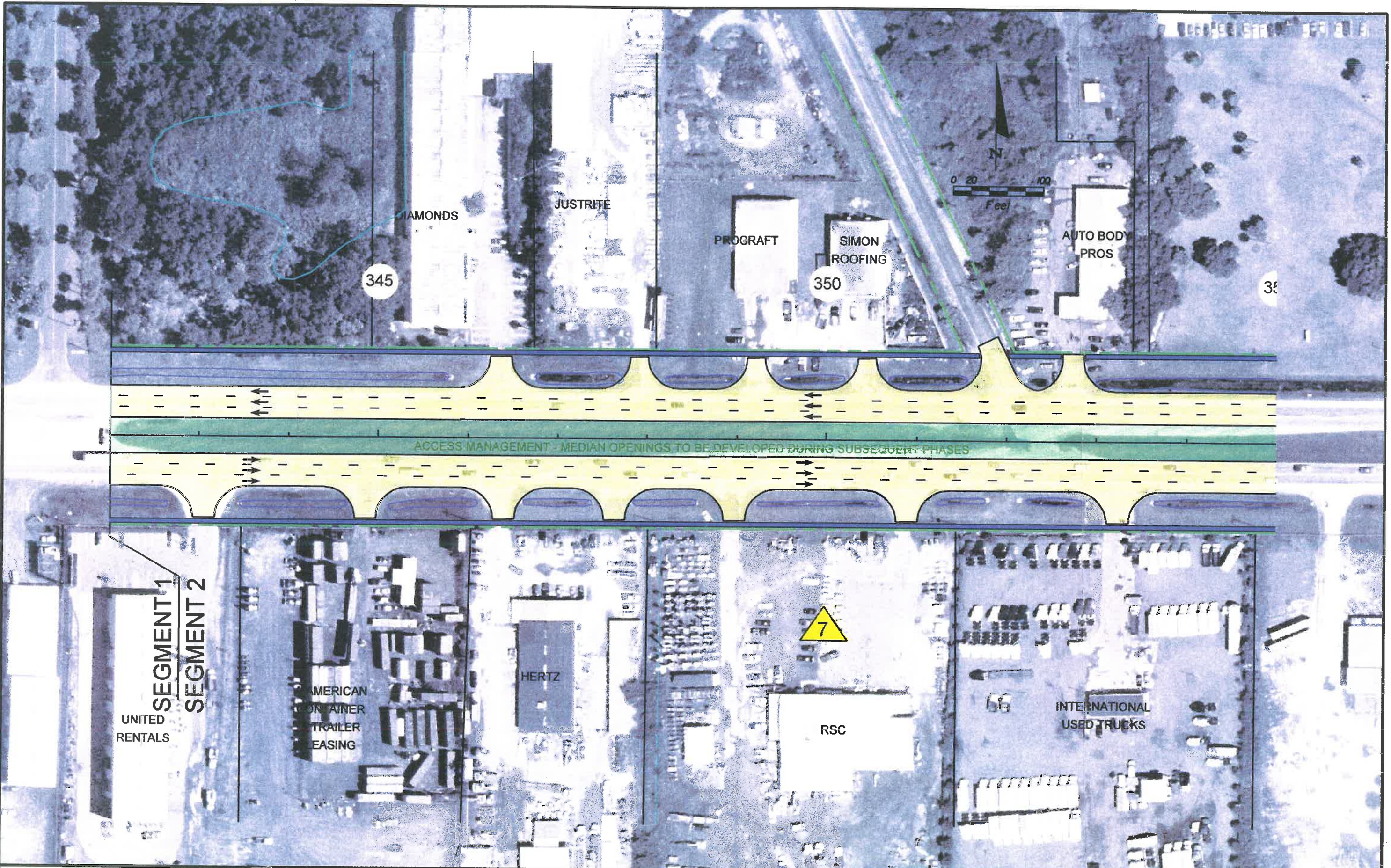
**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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|-----|-----------------------|---|------------------------------|
| 110 | BASLINE & STATIONS    | — | WETLAND                      |
| —   | EXISTING RIGHT-OF-WAY | — | SURFACE WATER                |
| —   | PROPOSED RIGHT-OF-WAY | — | STORMWATER POND              |
| —   | ROADWAY               | — | BUSINESS RELOCATION          |
| —   | BRIDGE                | — | POTENTIAL CONTAMINATION SITE |
| —   | SIDEWALK              | — |                              |

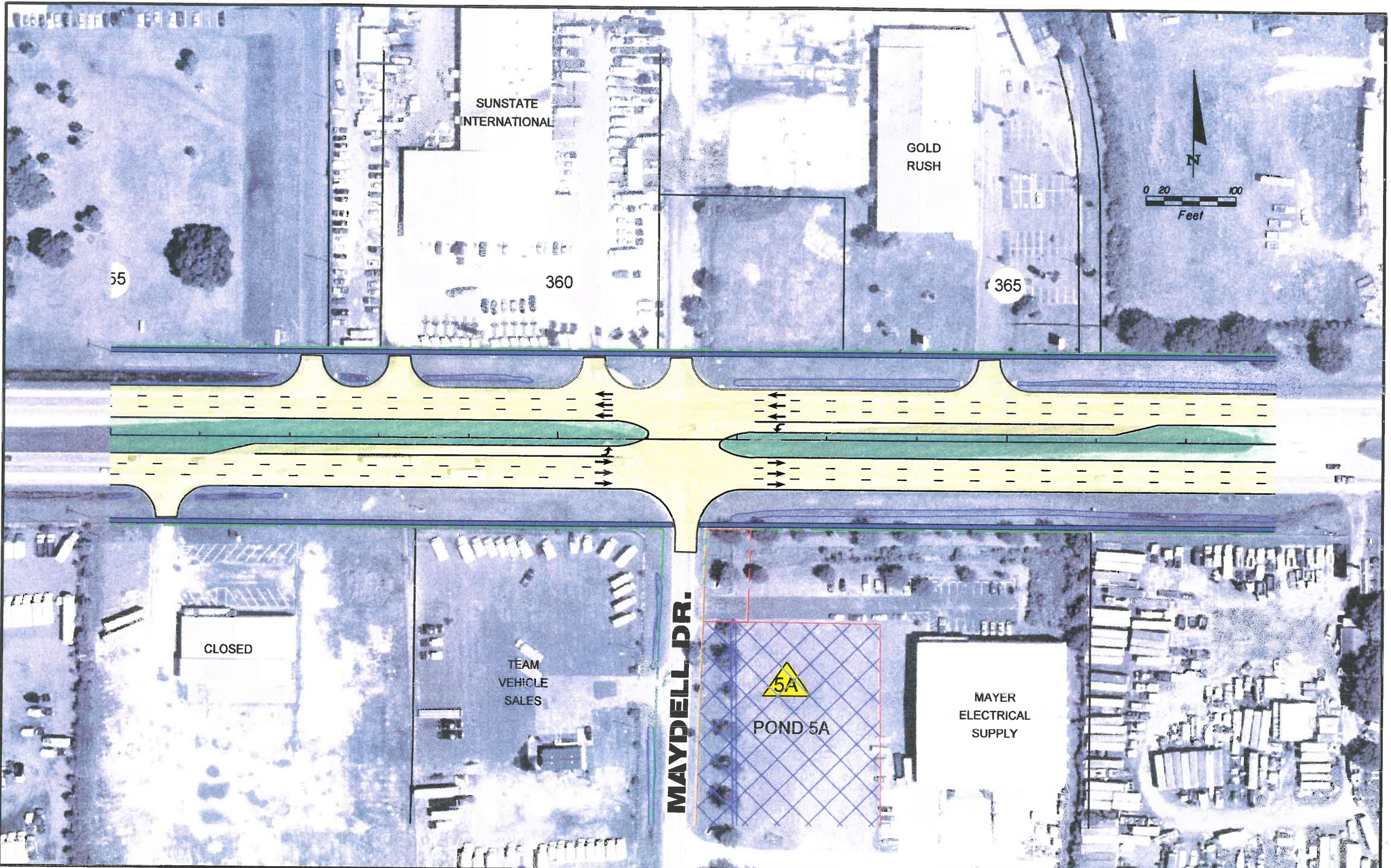
AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE SEGMENT 2**





55

SUNSTATE  
INTERNATIONAL

GOLD  
RUSH

360

365



CLOSED

TEAM  
VEHICLE  
SALES

MAYDELL DR.

5A

POND 5A

MAYER  
ELECTRICAL  
SUPPLY

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AERIAL  
FLIGHT  
2002

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WPI SEGMENT NUMBER 405525-1

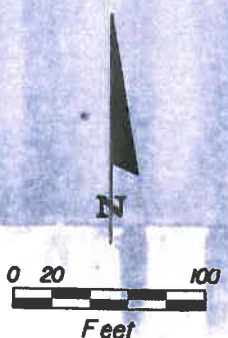


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**SEGMENT 2**

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|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
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|     | ROADWAY               |  | BUSINESS RELOCATION          |
|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK              |  |                              |

AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
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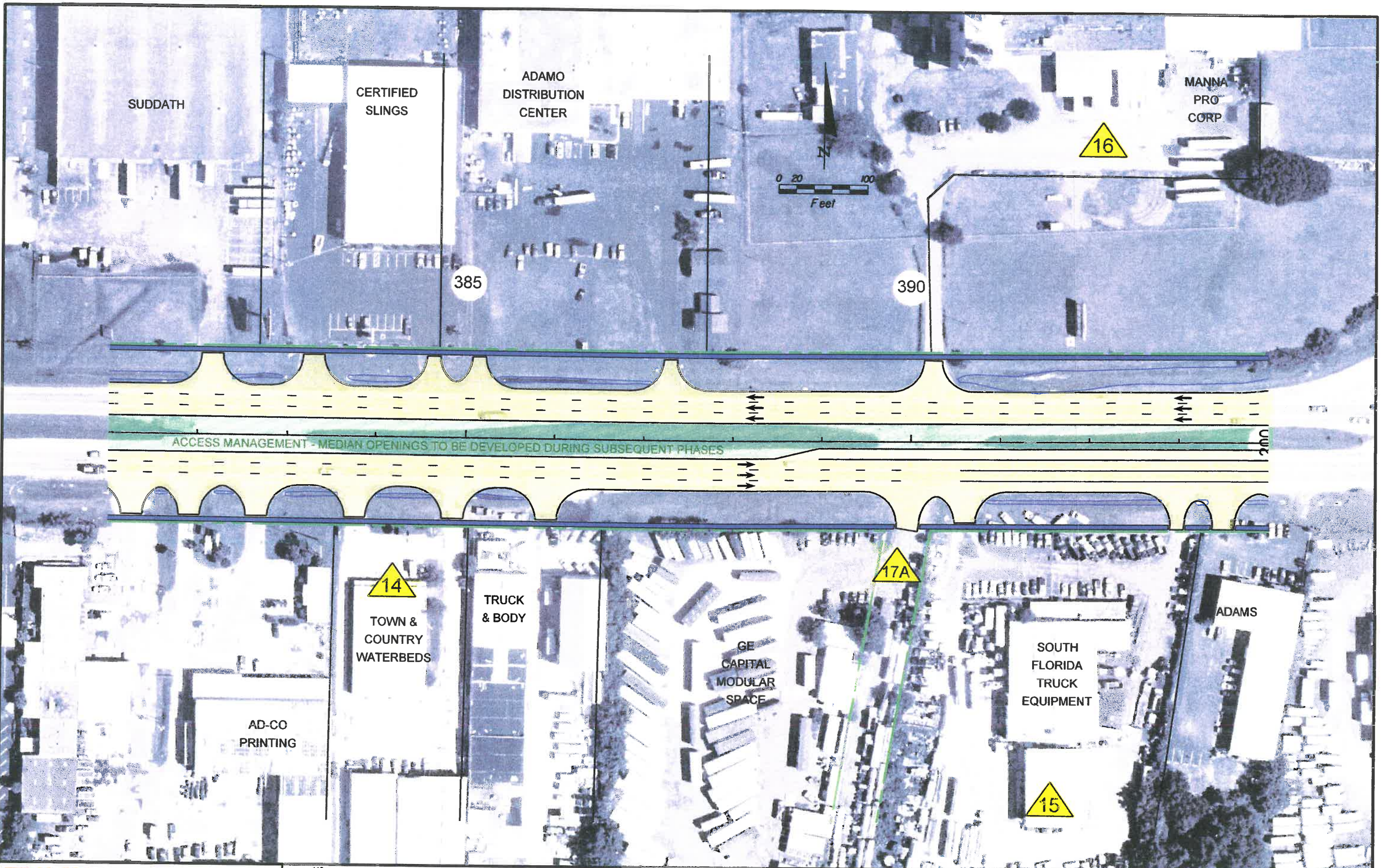
COUNTY: HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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|-----|-----------------------|--|------------------------------|
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|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
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|     | ROADWAY               |  | BUSINESS RELOCATION          |
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|     | SIDEWALK              |  |                              |

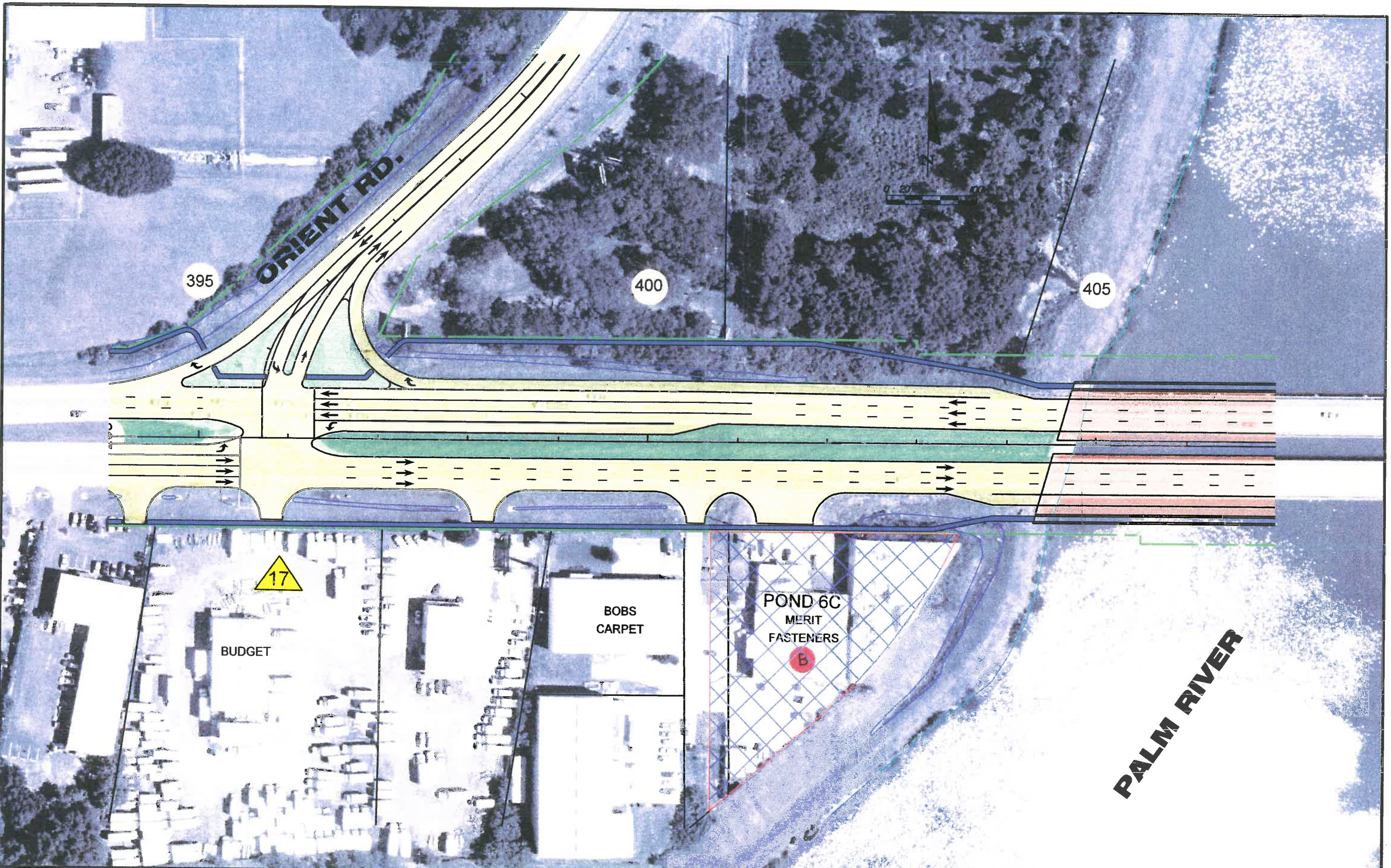
AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY: HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK              |  |                              |

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
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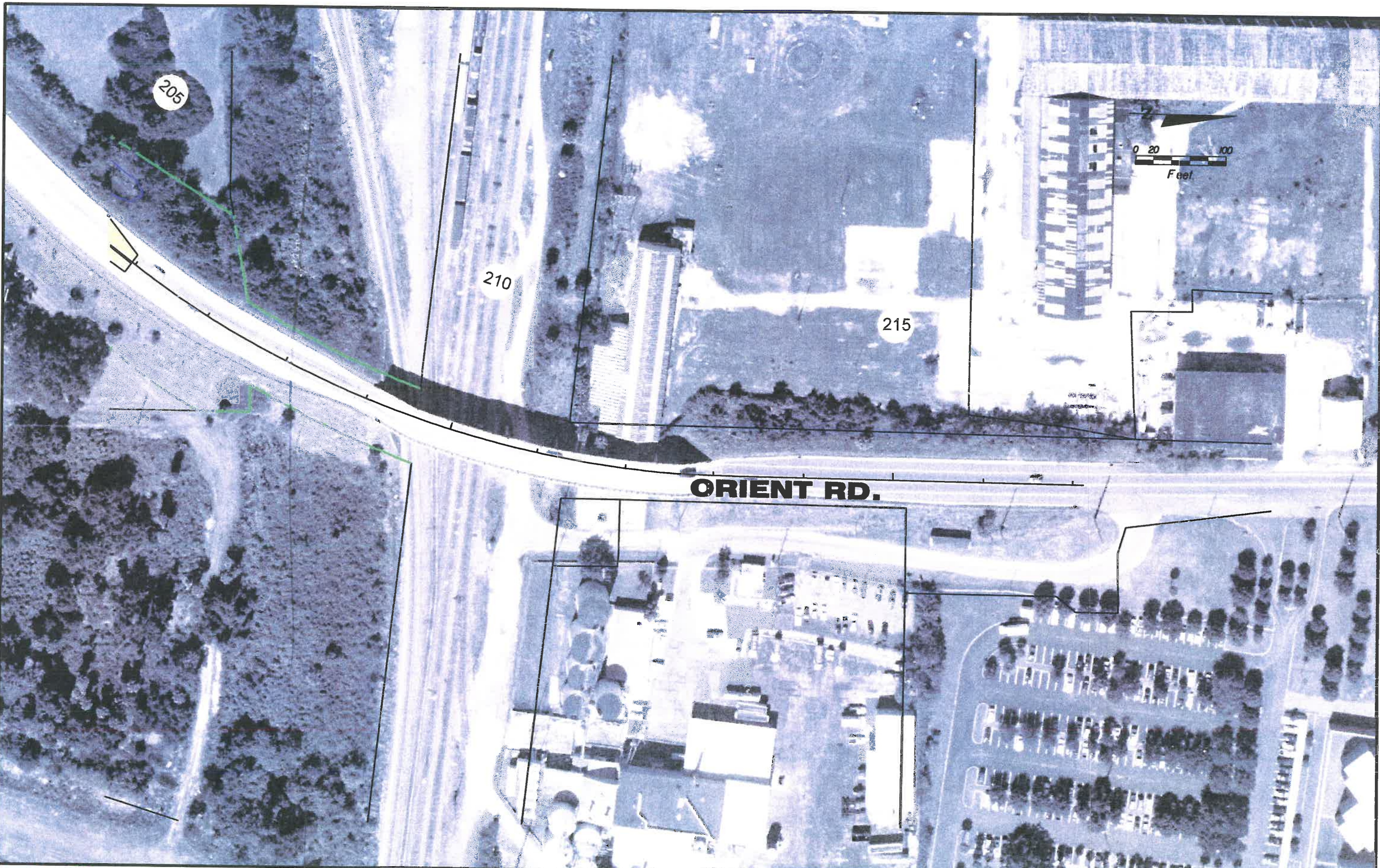
COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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 BUSINESS RELOCATION  
 POTENTIAL CONTAMINATION SITE

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
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COUNTY : HILLSBOROUGH

WPI SEGMENT NUMBER 405525-1

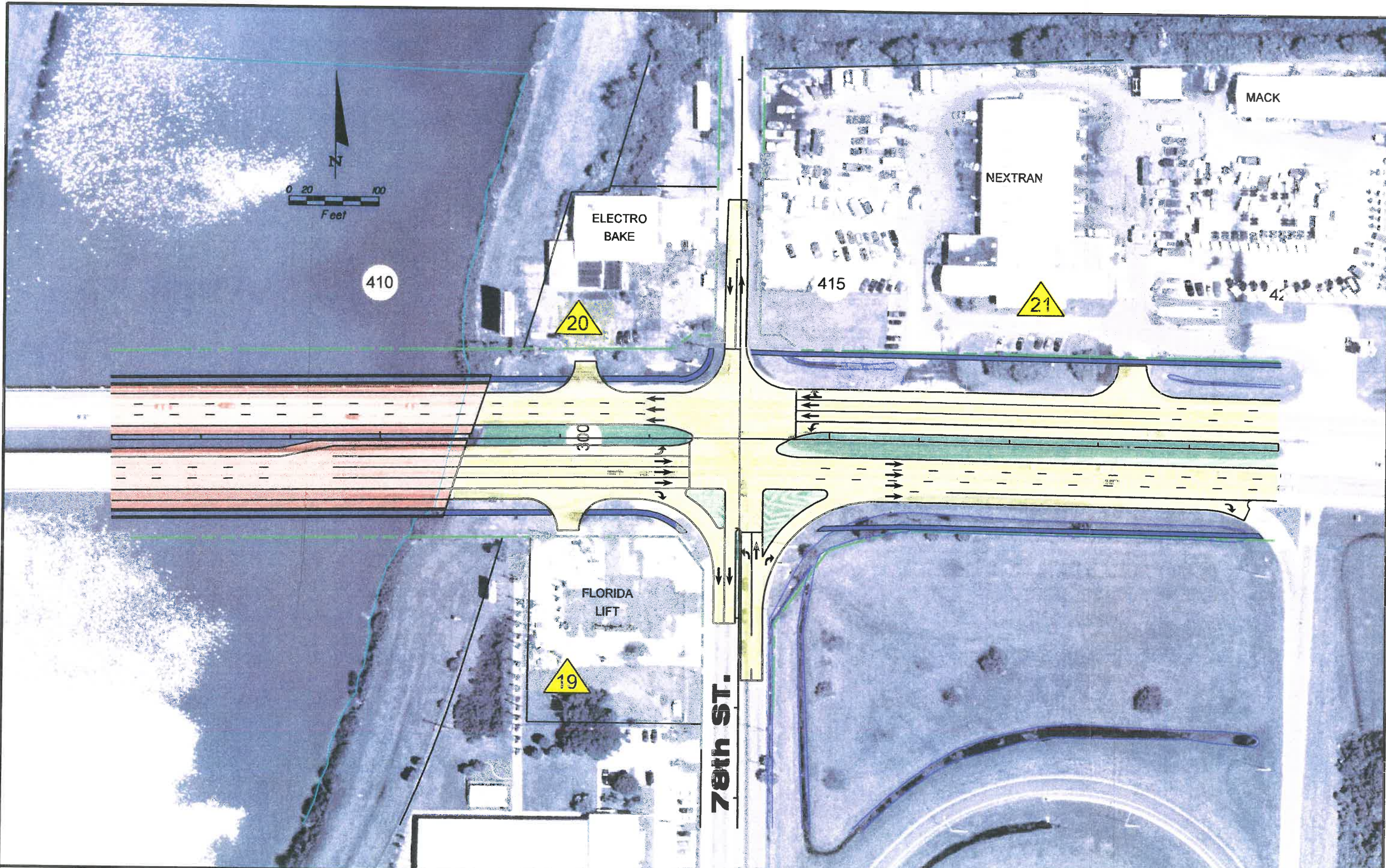


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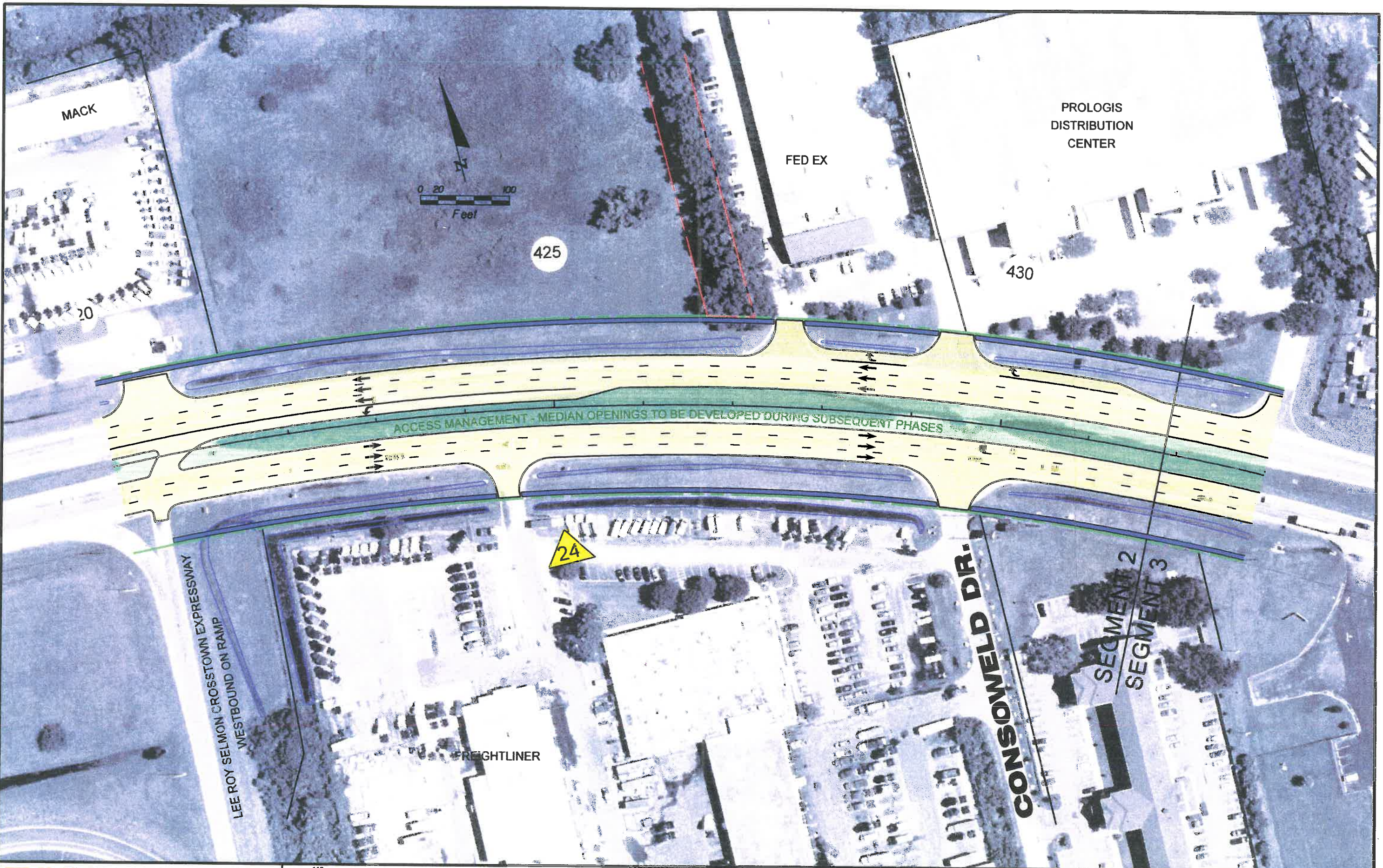
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|  | 110 | BASELINE & STATIONS   |  | WETLAND                      |
|  |     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|  |     | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|  |     | ROADWAY               |  | BUSINESS RELOCATION          |
|  |     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |
|  |     | SIDEWALK              |  |                              |
- AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY: HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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| —   | PROPOSED RIGHT-OF-WAY | — | STORMWATER POND              |
| —   | ROADWAY               | ● | BUSINESS RELOCATION          |
| —   | BRIDGE                | ▲ | POTENTIAL CONTAMINATION SITE |
| —   | SIDEWALK              |   |                              |

AERIAL FLIGHT 2002

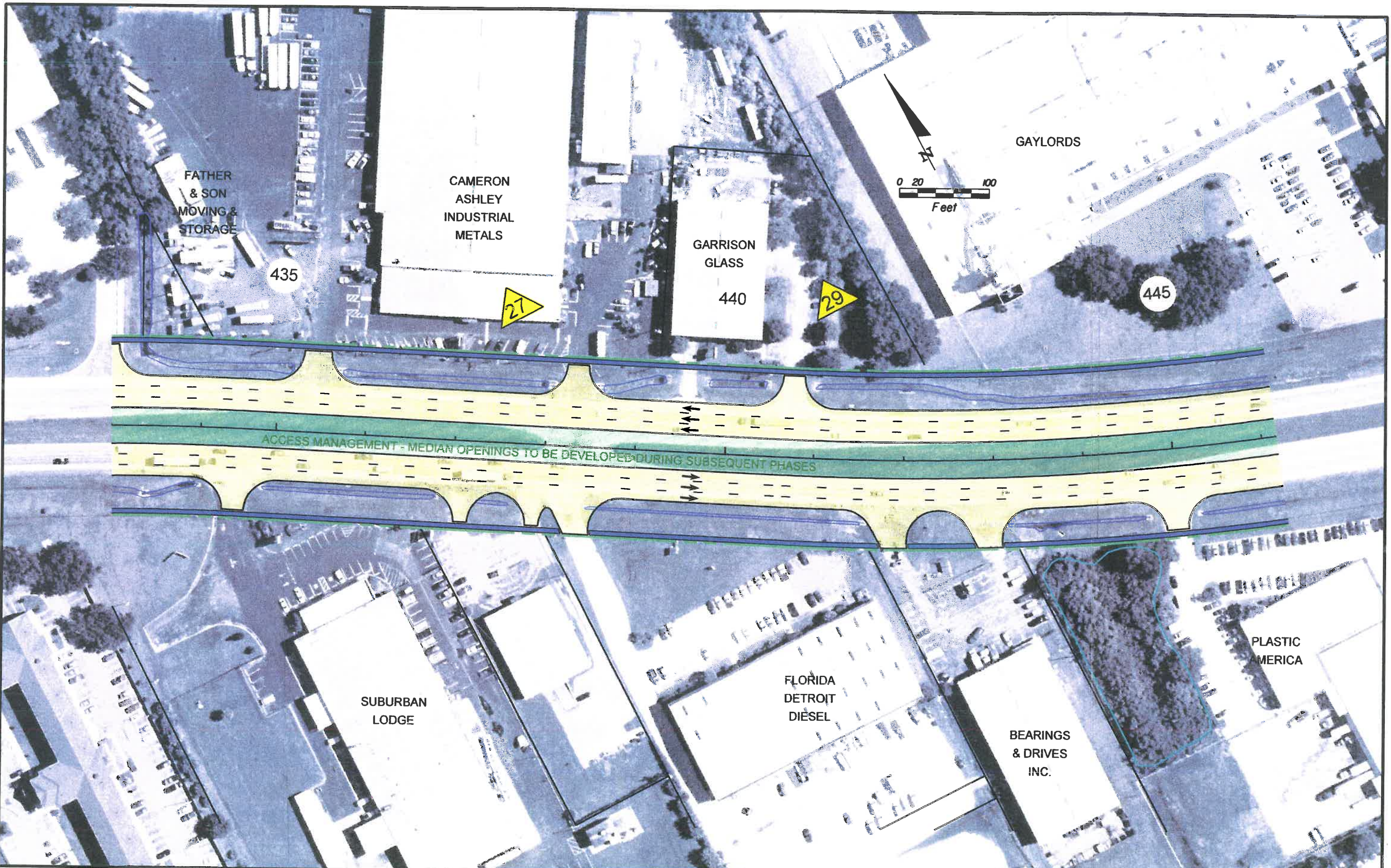
**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY: HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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|-----|-----------------------|------------------------------|
| 110 | BASLINE & STATIONS    | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY | STORMWATER POND              |
|     | ROADWAY               | BUSINESS RELOCATION          |
|     | BRIDGE                | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK              |                              |

AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**

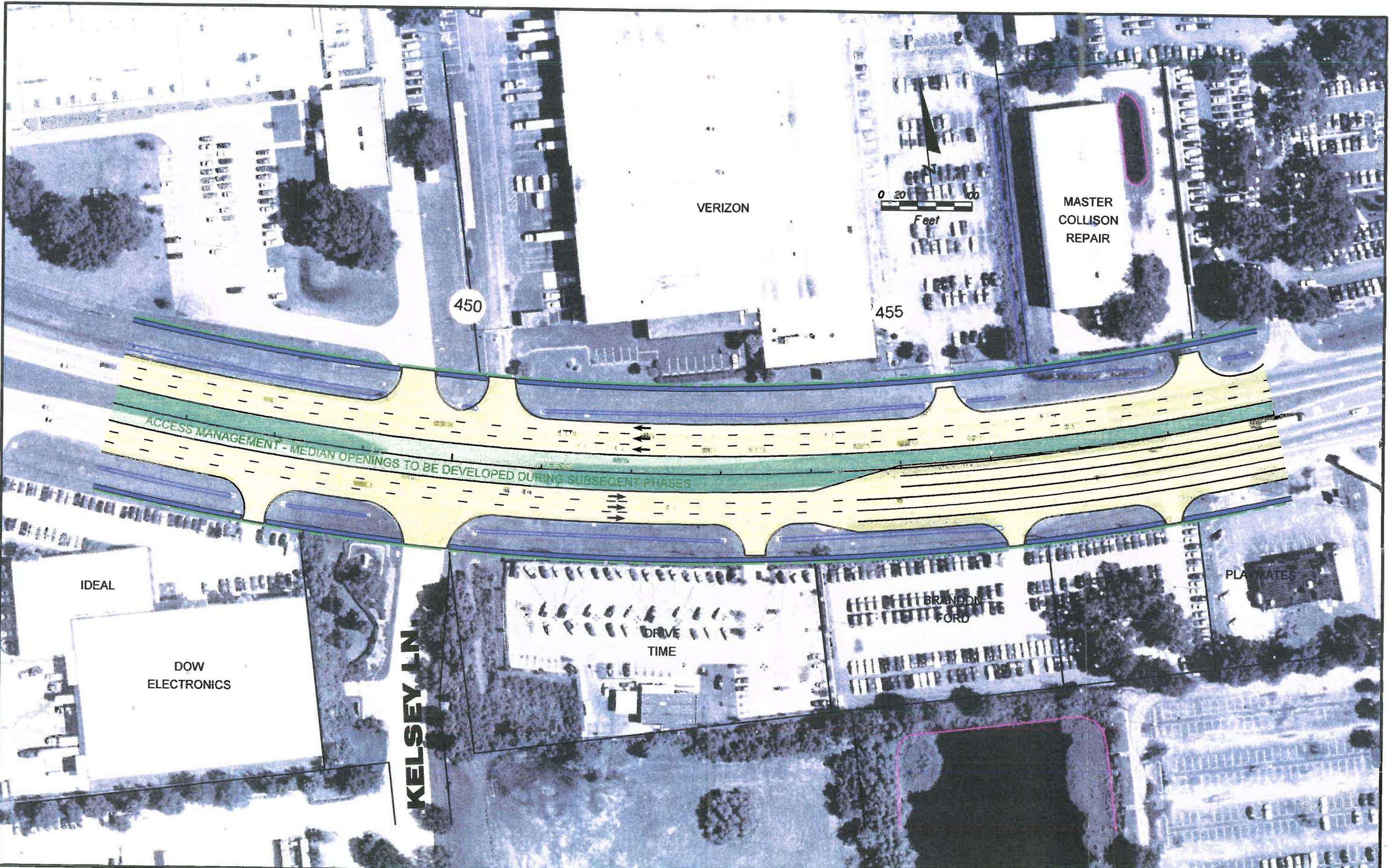
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  - PROPOSED RIGHT-OF-WAY
  - ROADWAY
  - BRIDGE
  - SIDEWALK

- WETLAND
- SURFACE WATER
- STORMWATER POND
- BUSINESS RELOCATION
- POTENTIAL CONTAMINATION SITE

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
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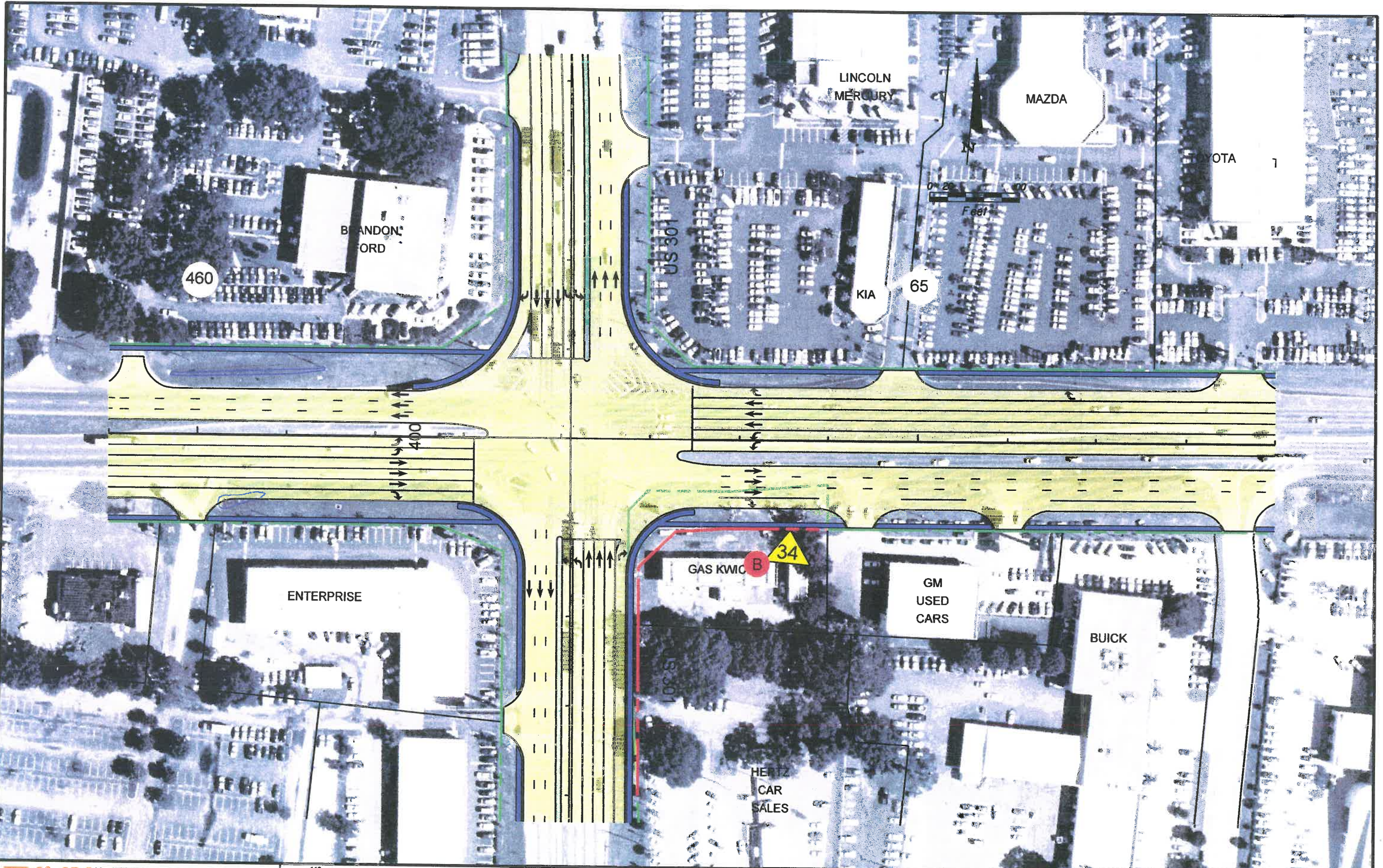
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|---|---|---|
| <p>110</p> <ul style="list-style-type: none"> <li><span style="color: green;">—</span> BASELINE &amp; STATIONS</li> <li><span style="color: red;">—</span> EXISTING RIGHT-OF-WAY</li> <li><span style="color: blue;">—</span> PROPOSED RIGHT-OF-WAY</li> <li><span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> ROADWAY</li> <li><span style="background-color: orange; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> BRIDGE</li> <li><span style="background-color: lightblue; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> SIDEWALK</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: blue;">—</span> WETLAND</li> <li><span style="color: blue;">—</span> SURFACE WATER</li> <li><span style="color: blue;">—</span> STORMWATER POND</li> <li><span style="color: red;">●</span> BUSINESS RELOCATION</li> <li><span style="color: yellow;">▲</span> POTENTIAL CONTAMINATION SITE</li> </ul> | <p>AERIAL<br/>         FLIGHT<br/>         2002</p> |
|---|---|---|

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**

COUNTY: HILLSBOROUGH

WPI SEGMENT NUMBER 405525-1



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- STORMWATER POND
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- ▲ POTENTIAL CONTAMINATION SITE

AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
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COUNTY : HILLSBOROUGH

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**RECOMMENDED ALTERNATIVE SEGMENT 3**

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AERIAL FLIGHT 2002

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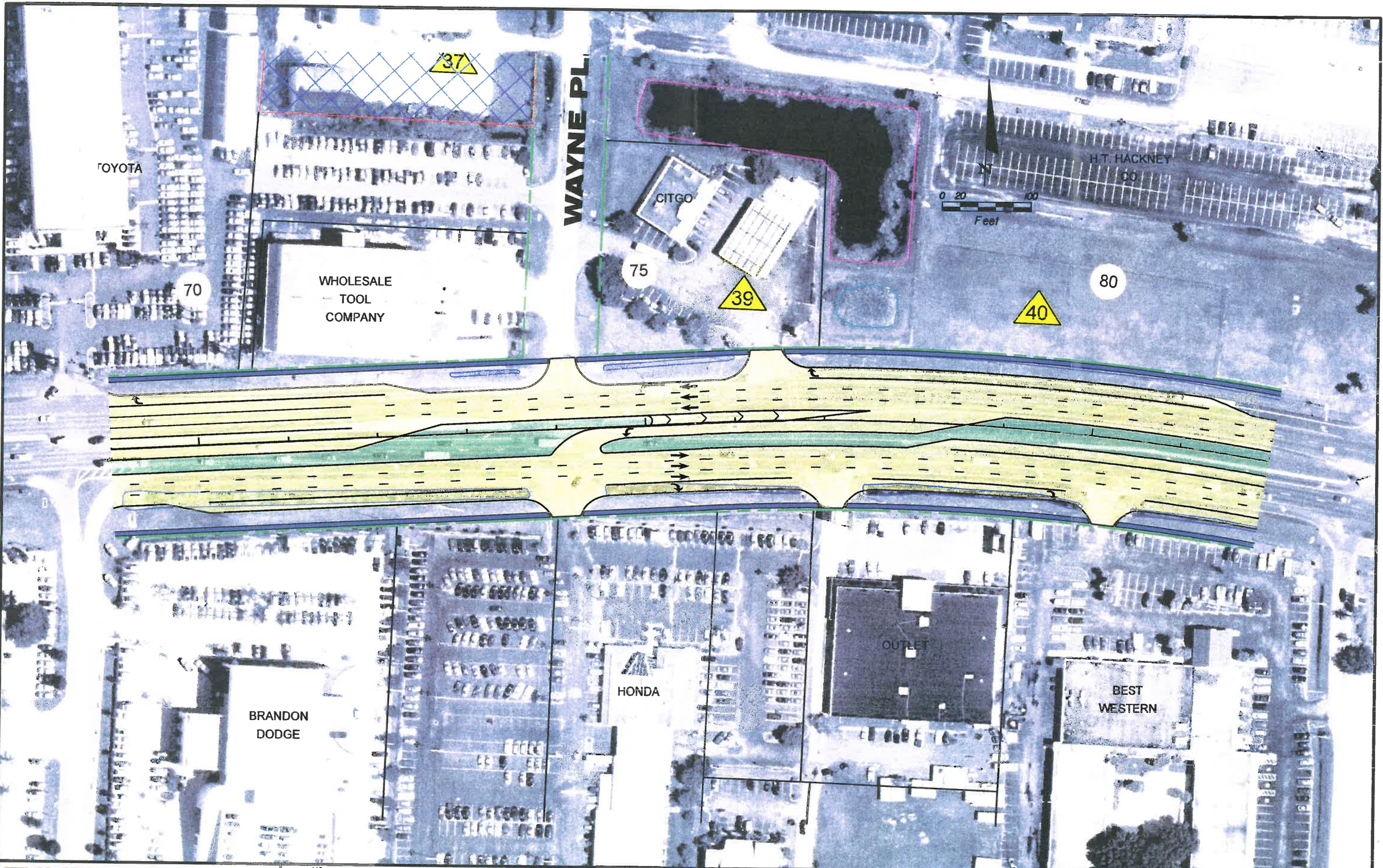
COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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		EXISTING RIGHT-OF-WAY		SURFACE WATER		
		PROPOSED RIGHT-OF-WAY		STORMWATER POND		POTENTIAL CONTAMINATION SITE
		ROADWAY		BUSINESS RELOCATION		
		BRIDGE				
		SIDEWALK				

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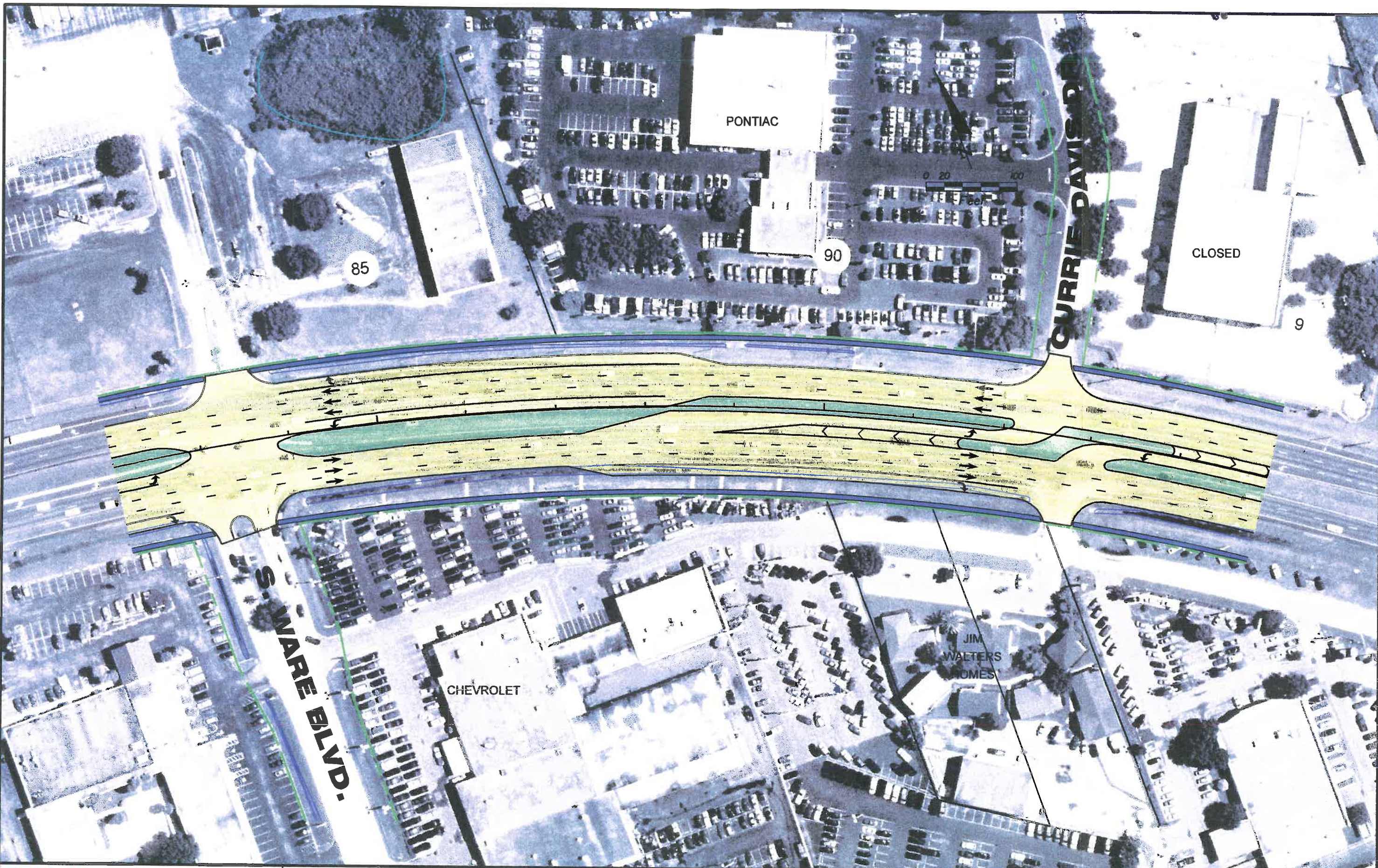
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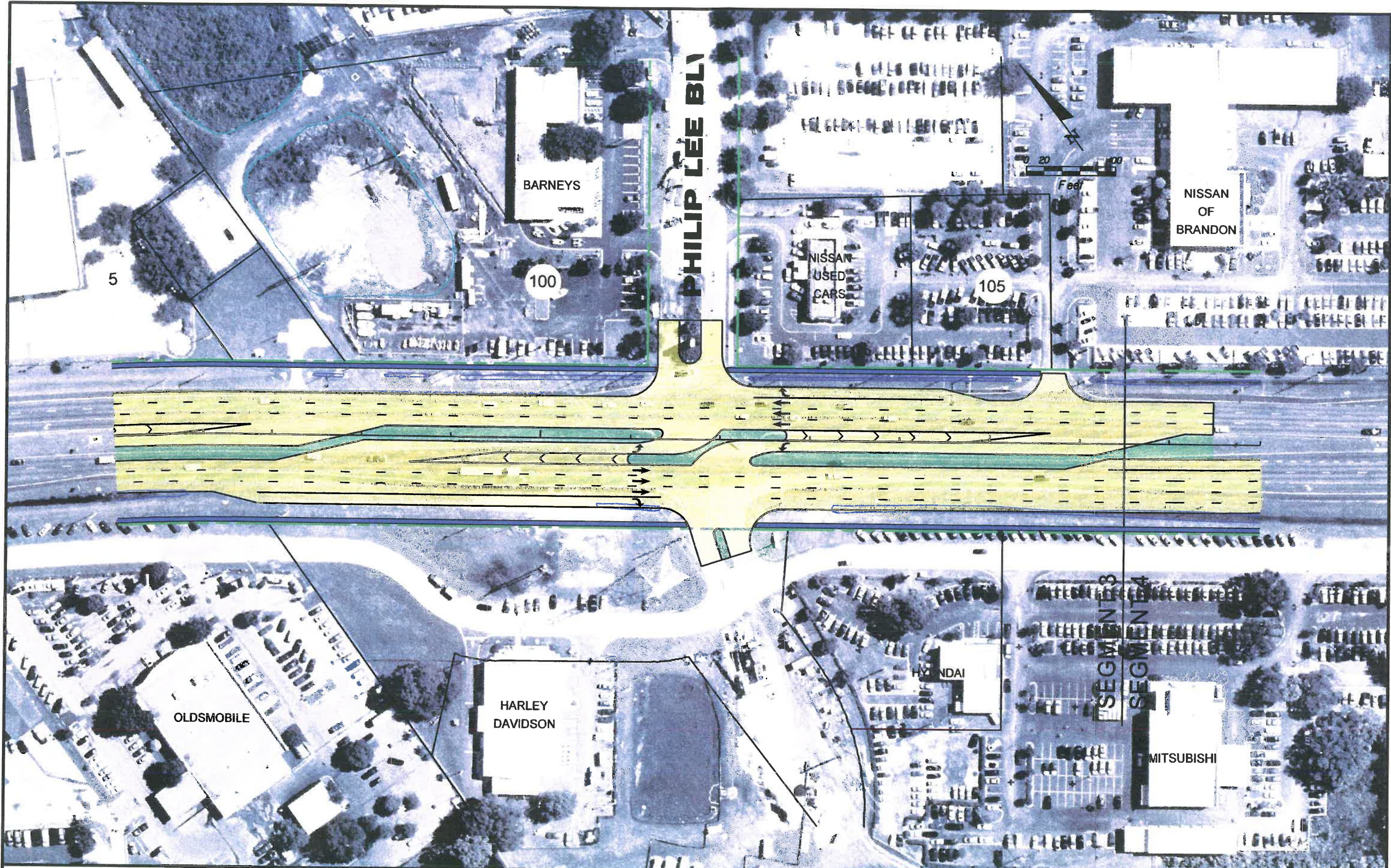
**SR 60/ADAMO DRIVE PD&E STUDY**  
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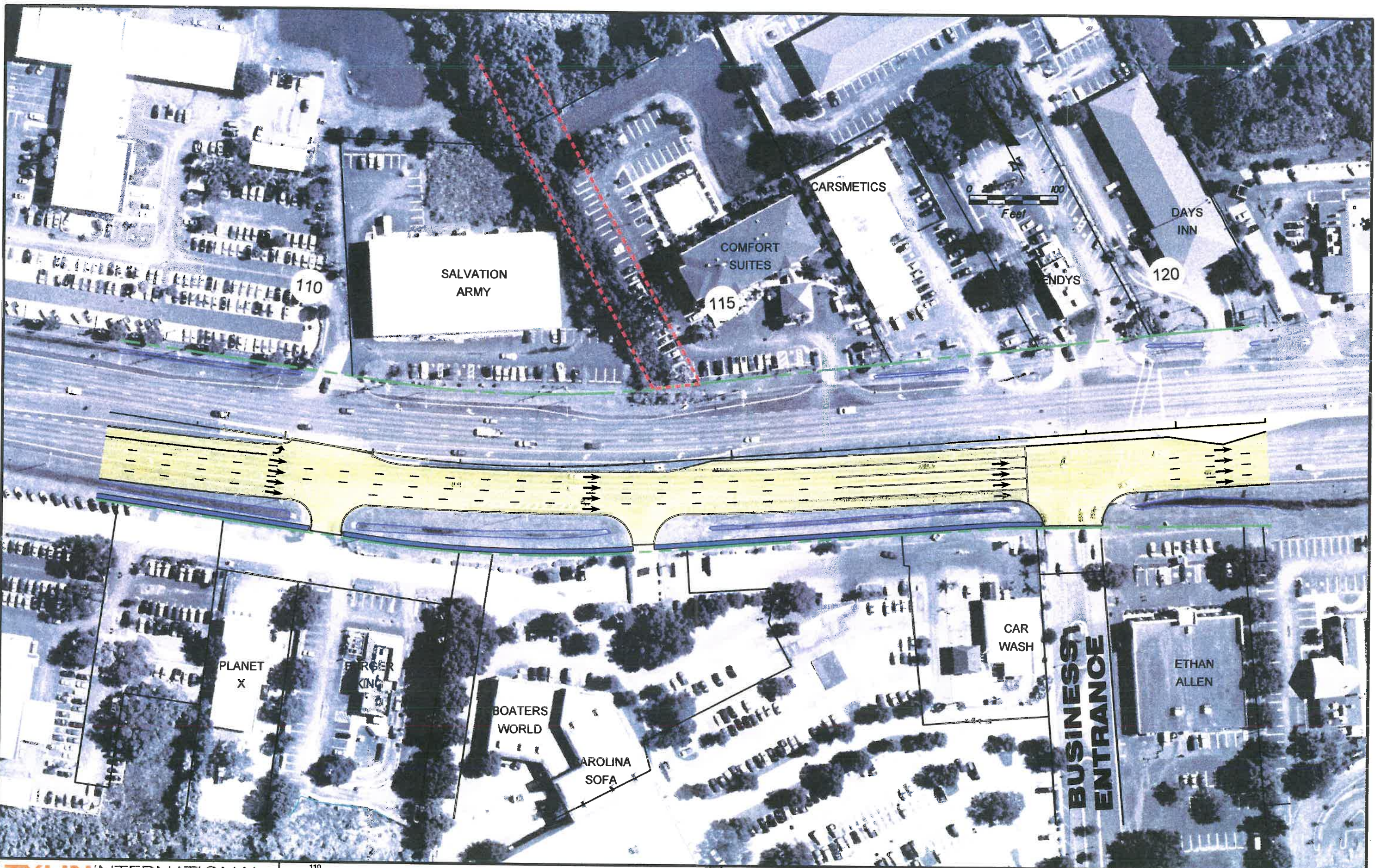
**SR 60/ADAMO DRIVE PD&E STUDY**  
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 COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



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AERIAL  
 FLIGHT  
 2002

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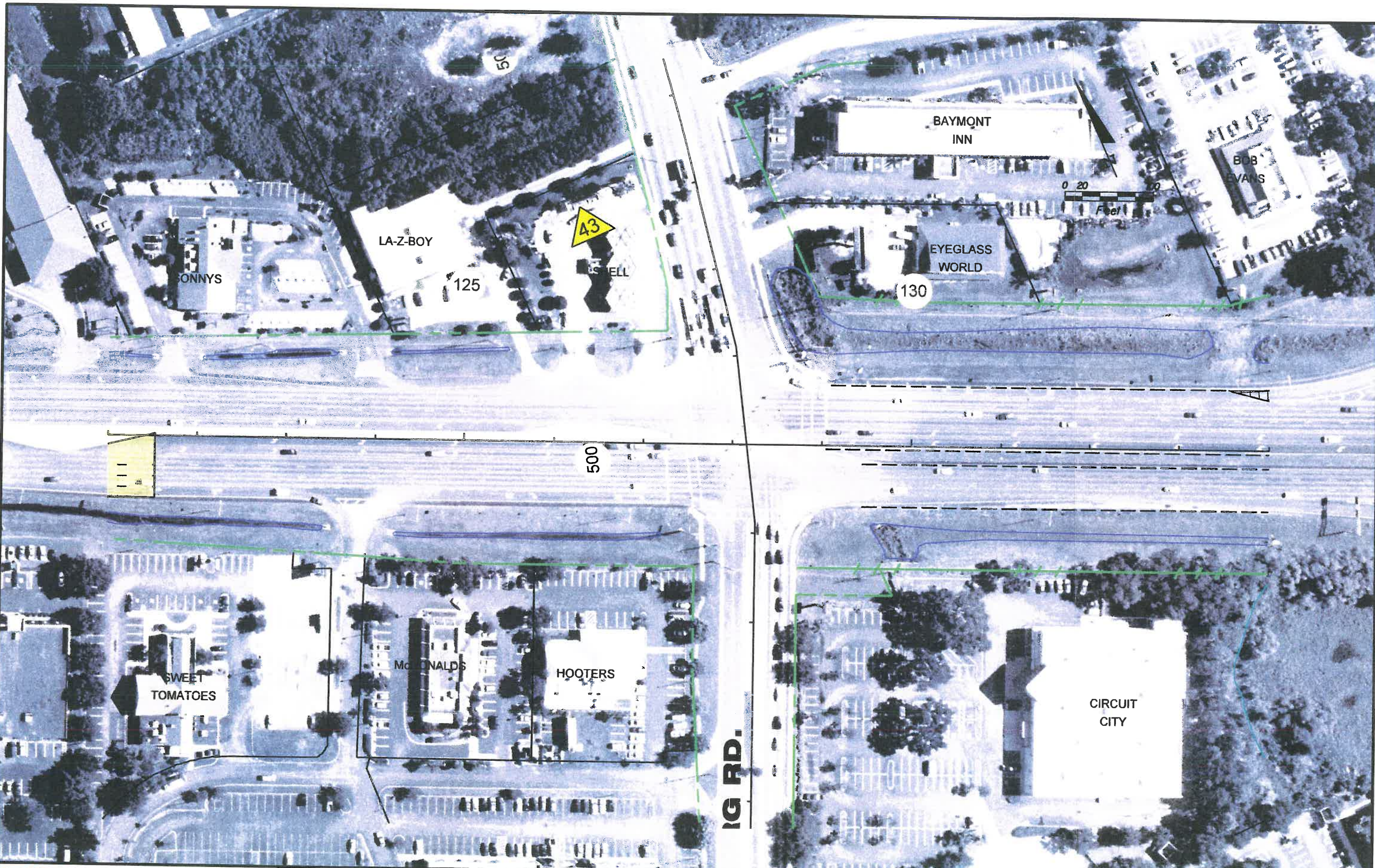
WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE  
 SEGMENT 4**

SHEET:  
 21





05/31/2005

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- 110
- BASELINE & STATIONS
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- ROADWAY
- BRIDGE
- SIDEWALK

- WETLAND
- SURFACE WATER
- STORMWATER POND
- BUSINESS RELOCATION
- POTENTIAL CONTAMINATION SITE

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**

**FROM WEST OF 50TH ST. TO  
 EAST OF FALKENBURG RD.**

COUNTY: HILLSBOROUGH

WPI SEGMENT NUMBER 405525-1

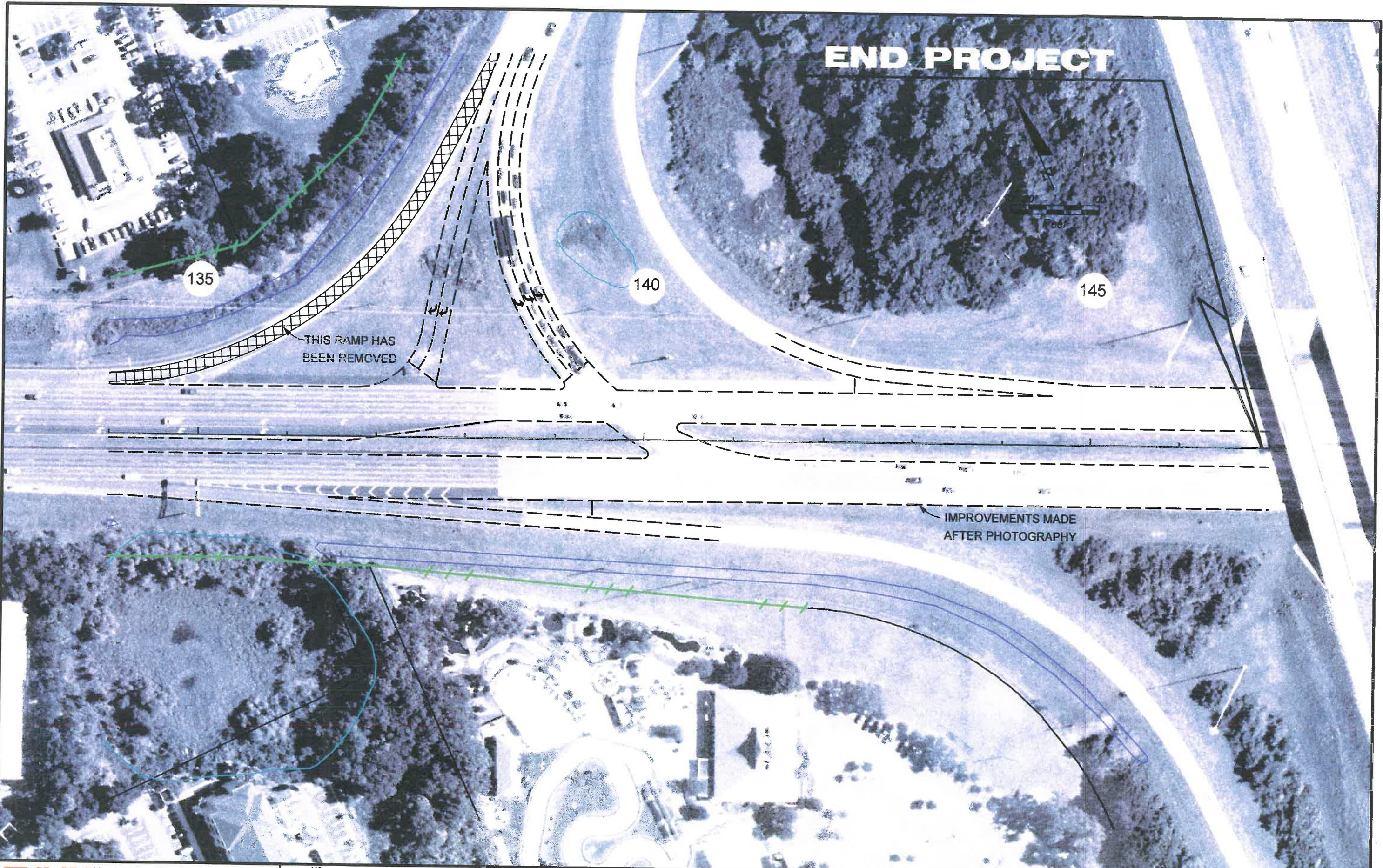


**RECOMMENDED ALTERNATIVE  
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 22



# END PROJECT



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- |     |                       |                              |                    |
|-----|-----------------------|------------------------------|--------------------|
| 110 | BASLINE & STATIONS    | WETLAND                      | AERIAL FLIGHT 2002 |
| --- | EXISTING RIGHT-OF-WAY | SURFACE WATER                |                    |
| --- | PROPOSED RIGHT-OF-WAY | STORMWATER POND              |                    |
| --- | ROADWAY               | BUSINESS RELOCATION          |                    |
| --- | BRIDGE                | POTENTIAL CONTAMINATION SITE |                    |
| --- | SIDEWALK              |                              |                    |

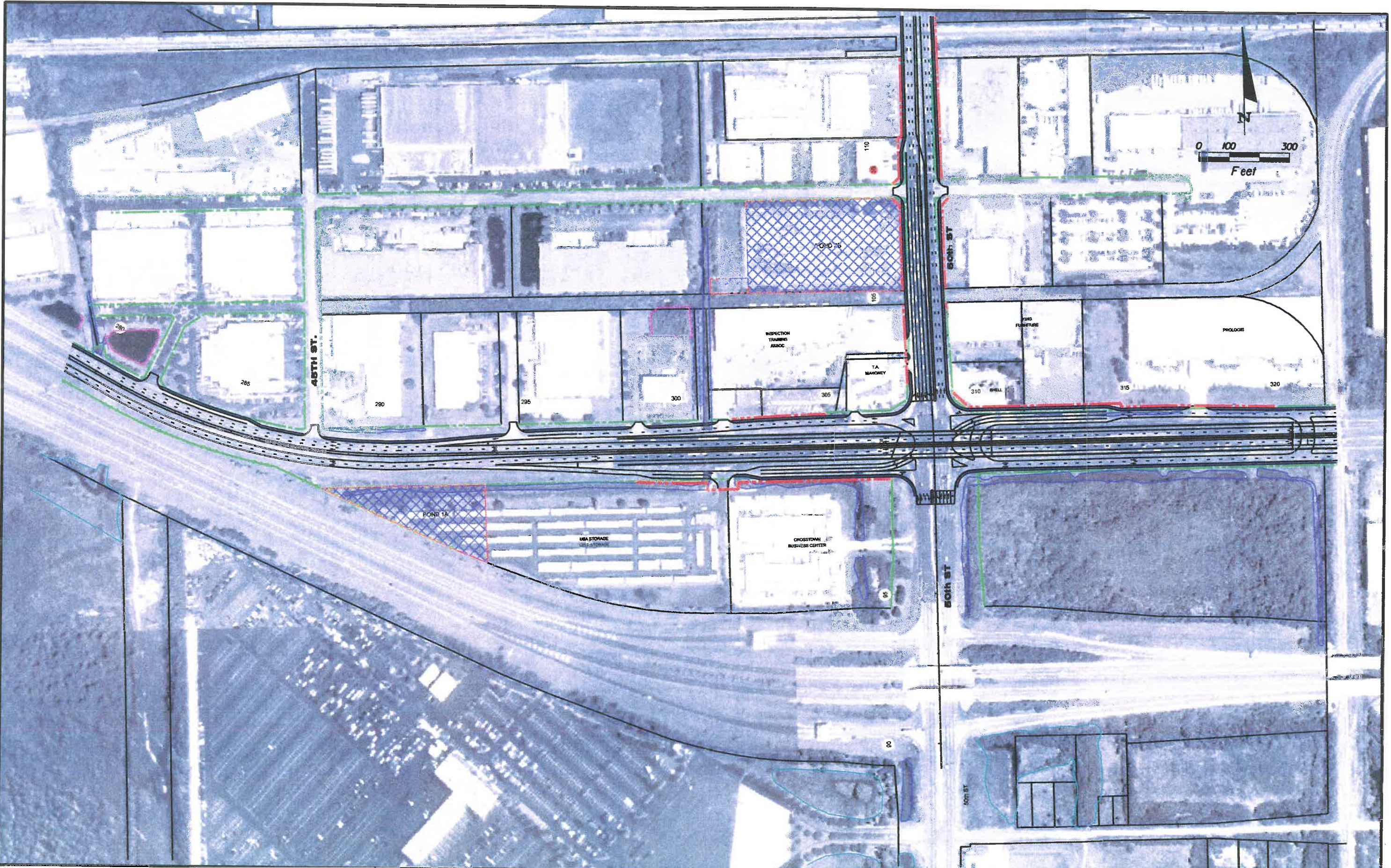
**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**

COUNTY: HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE SEGMENT 4**





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- 110 ——— BASELINE & STATIONS
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- ROADWAY
- BRIDGE

- WETLAND
- SURFACE WATER
- STORMWATER POND
- BUSINESS RELOCATION
- ▲ POTENTIAL CONTAMINATION SITE

AERIAL  
 FLIGHT  
 2002

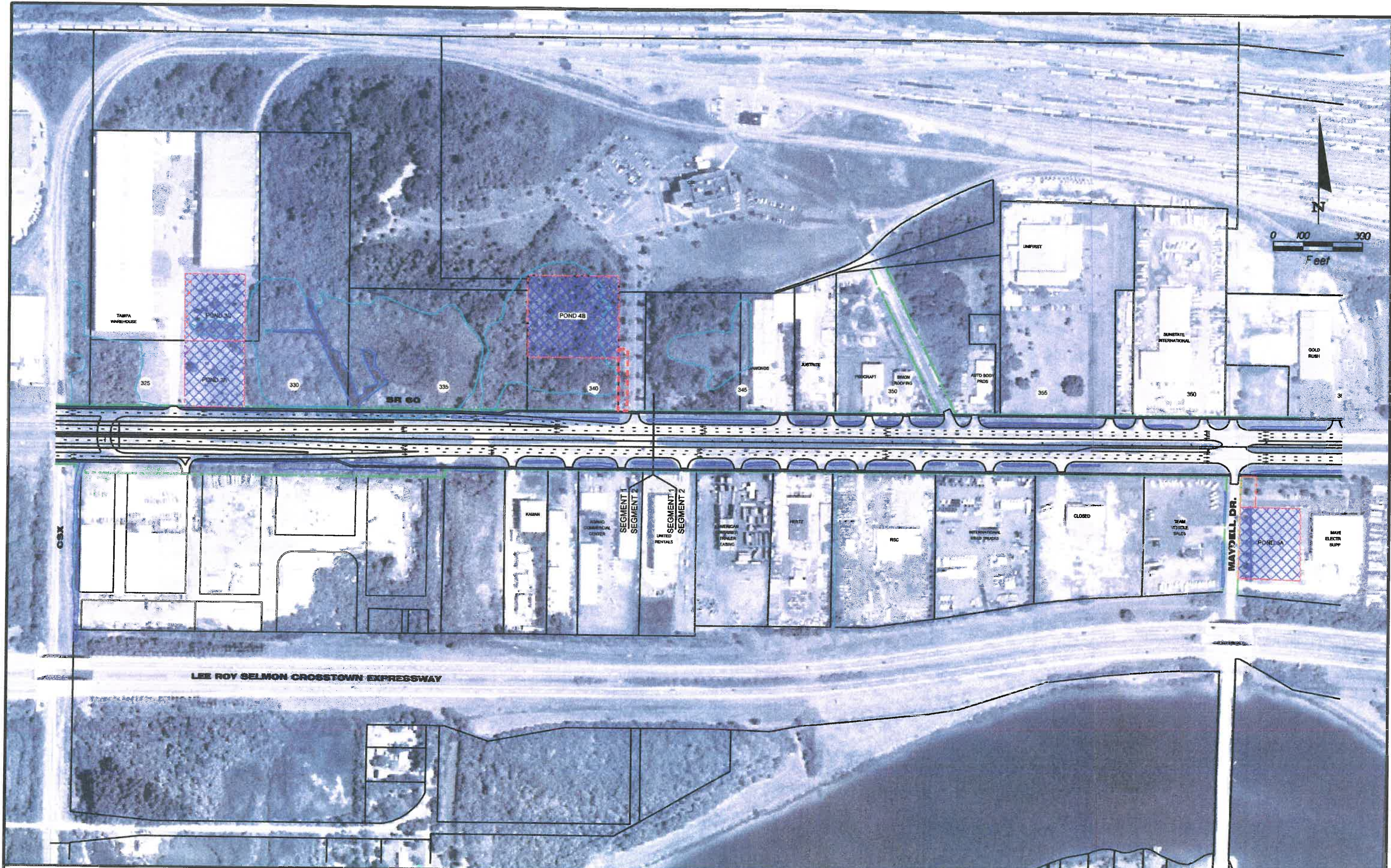
**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**PRELIMINARY PONDS**  
**SEGMENT 1**





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|-----|-----------------------|--|------------------------------|
| 110 | BASELINE & STATIONS   |  | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|     | ROADWAY               |  | BUSINESS RELOCATION          |
|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |

AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE PRELIMINARY PONDS SEGMENT 1 / 2**





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|-----|-----------------------|--|------------------------------|
| 110 | BASLINE & STATIONS    |  | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|     | ROADWAY               |  | BUSINESS RELOCATION          |
|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |

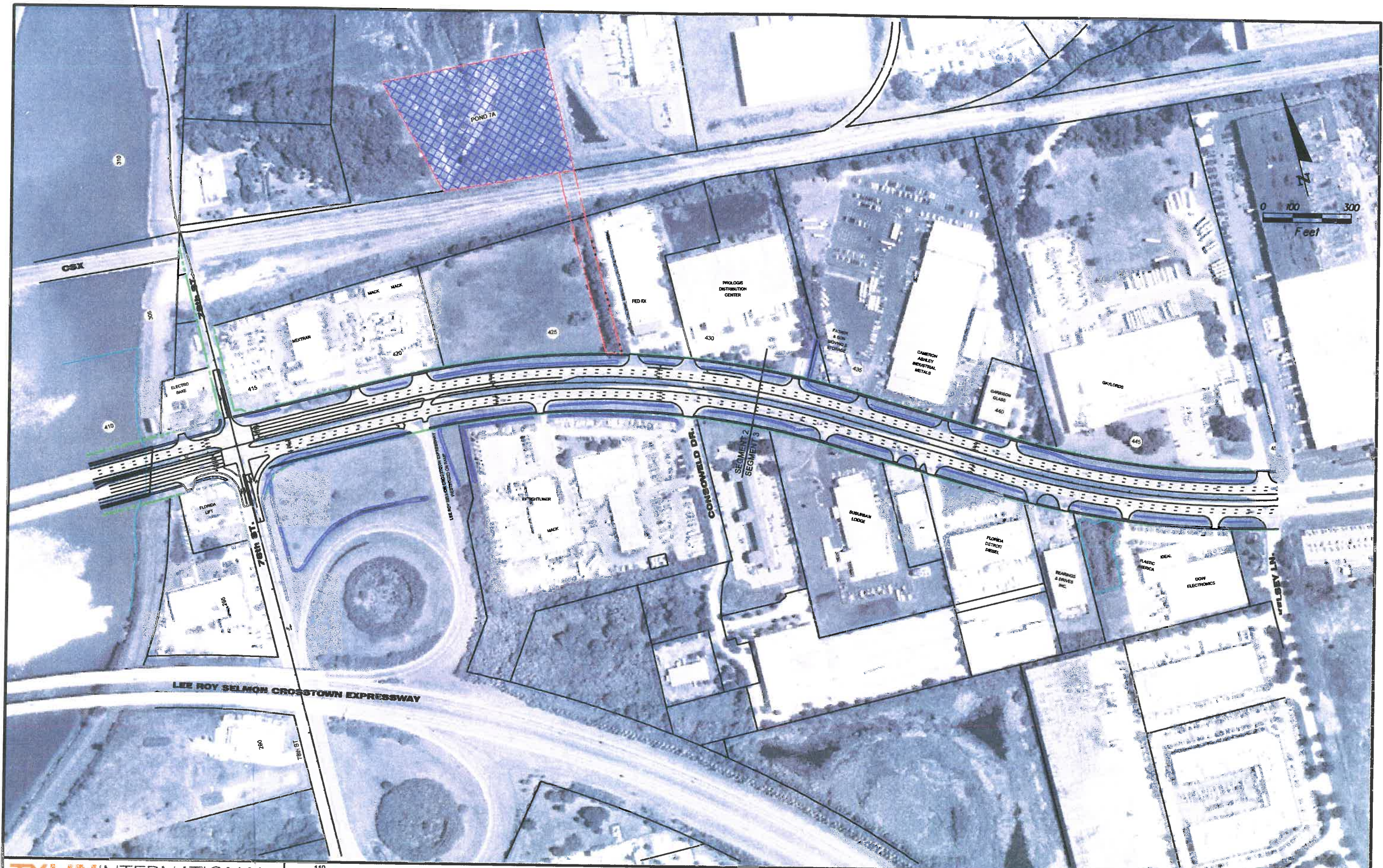
AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**  
 COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**PRELIMINARY PONDS**  
**SEGMENT 2**  
 SHEET:  
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|-----|-----------------------|--|------------------------------|
| 110 | BASELINE & STATIONS   |  | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|     | ROADWAY               |  | BUSINESS RELOCATION          |
|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |

AERIAL FLIGHT  
 2002

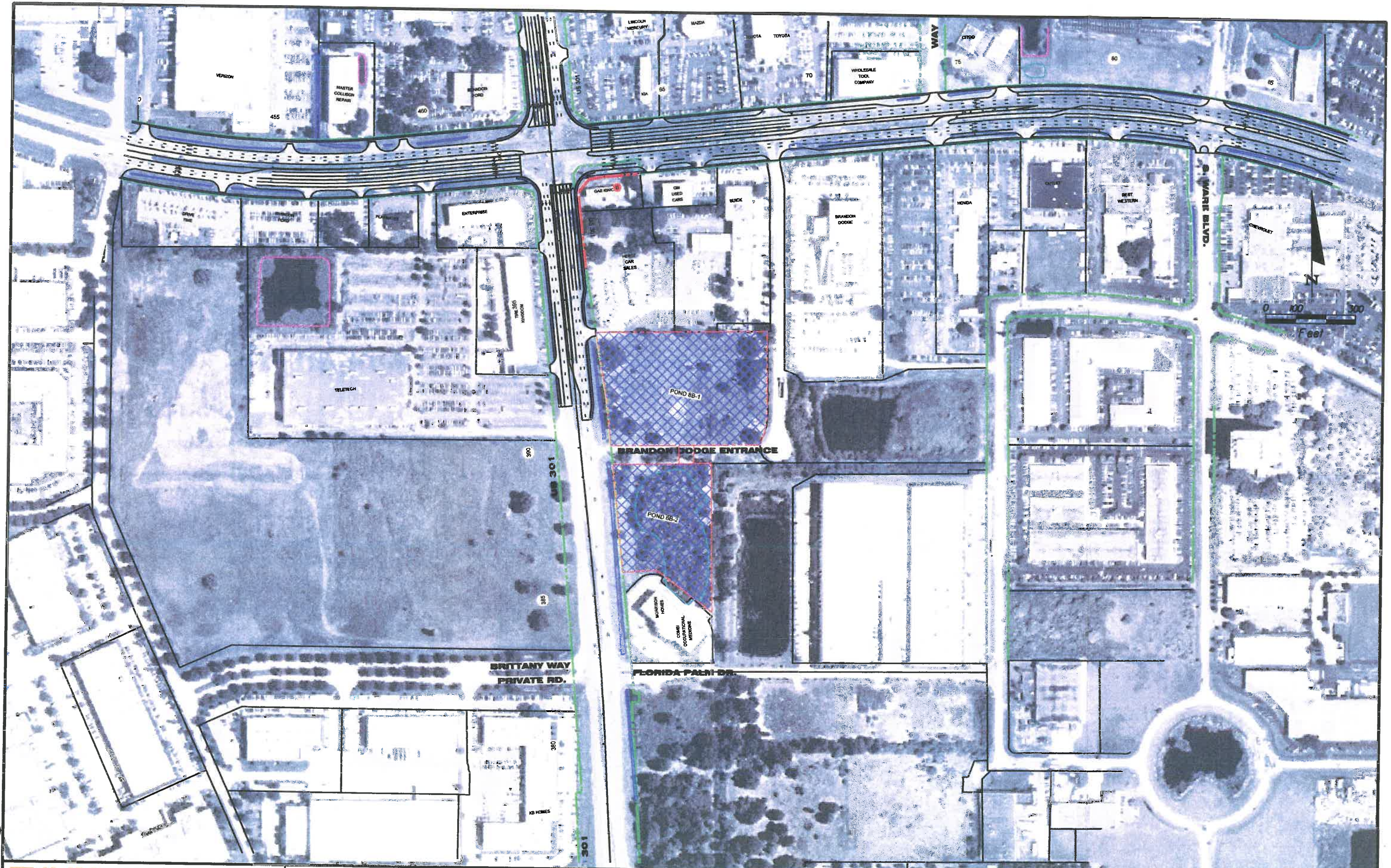
**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE PRELIMINARY PONDS SEGMENT 2**





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|-----|-----------------------|--|------------------------------|
| 110 | BASELINE & STATIONS   |  | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|     | ROADWAY               |  | BUSINESS RELOCATION          |
|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |

AERIAL FLIGHT 2002

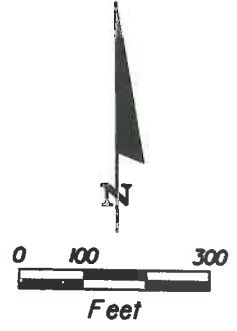
**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**

COUNTY: HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE PRELIMINARY PONDS SEGMENT 3**





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- |     |                       |                              |
|-----|-----------------------|------------------------------|
| 110 | BASLINE & STATIONS    | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY | STORMWATER POND              |
|     | ROADWAY               | BUSINESS RELOCATION          |
|     | BRIDGE                | POTENTIAL CONTAMINATION SITE |

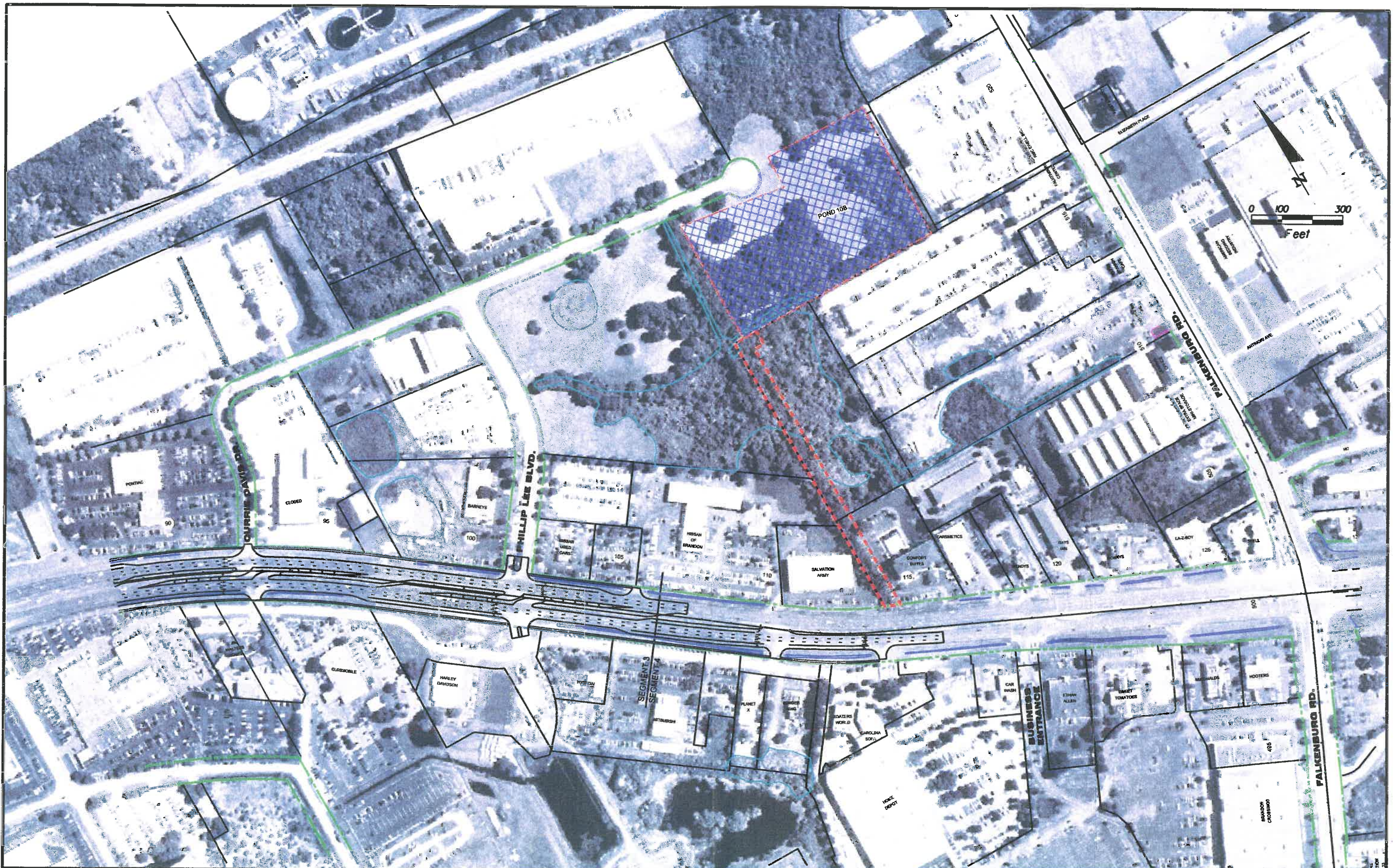
AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**  
 COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE  
 PRELIMINARY PONDS  
 SEGMENT 3**





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|-----|-----------------------|--|------------------------------|
| 110 | BASELINE & STATIONS   |  | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY |  | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY |  | STORMWATER POND              |
|     | ROADWAY               |  | BUSINESS RELOCATION          |
|     | BRIDGE                |  | POTENTIAL CONTAMINATION SITE |

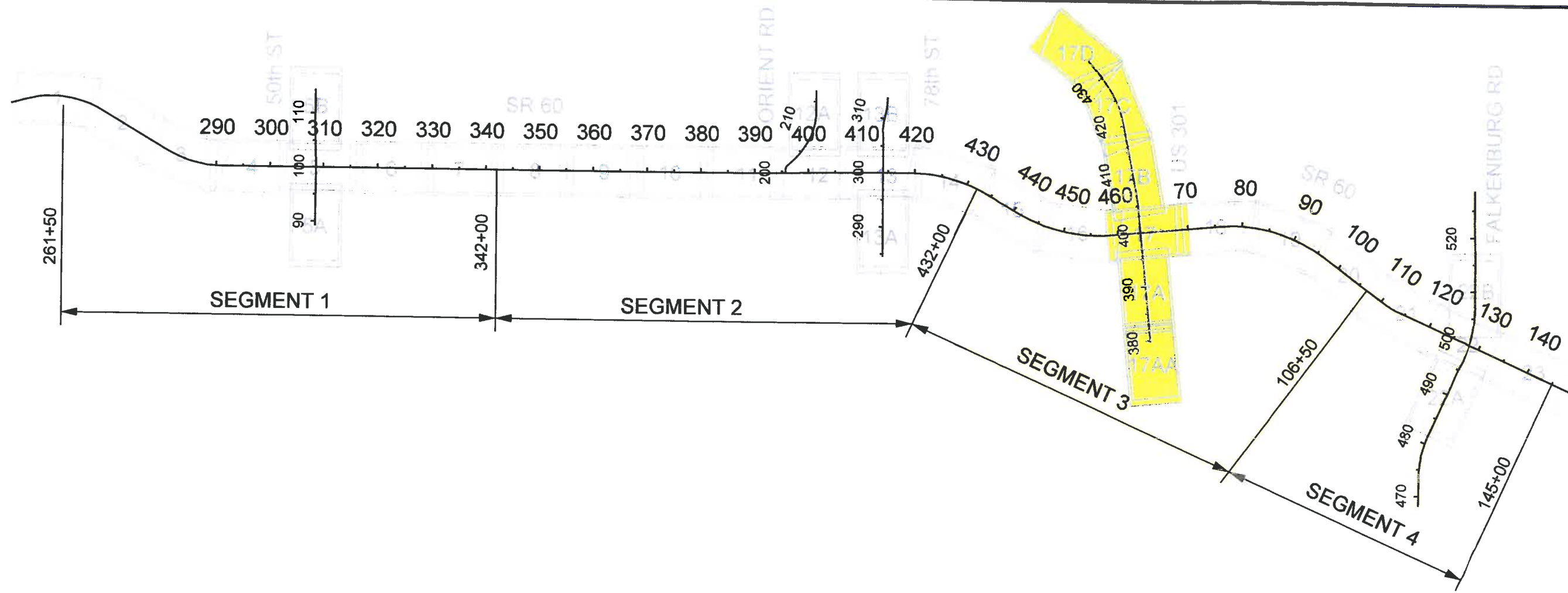
AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE PRELIMINARY PONDS SEGMENT 4**  
 SHEET: 7





Segment	Location	Station	Station Equation		Length	
			Back	Ahead	Feet	Miles
1	West of 50th Street	261+50			8,050.06	1.525
	50th Street	308+55.73				
	CSX Railroad	322+09.31				
	East of CSX Railroad	342+00				
2			334+89.09	334+89.03	8,999.48	1.704
			387+91.23	387+90.86		
	Orient Road	395+70.87				
	Begin Bridge	404+55.63				
	Palm River					
	End Bridge	410+98.62				
	78th Street	414+00.49				
3			416+35.54	416+36.43	7,761.88	1.470
			434+51.06	434+67.82		
			458+91.64	458+71.47		
			463+95.29	60+86.82		
4	US 301	61+10.64			4,050.00	0.767
	Philip Lee Boulevard	106+50				
	Falkenburg Road	128+15.74				
	East of Falkenburg Road	145+00				
Total Length =					28,861.42	5.466

Intersector	Station	Station Equation		Length		
		Back	Ahead	Feet	Miles	
50th Street	308+55.73			1,353.57	0.256	
CSX Railroad	322+09.31			7,361.99	1.394	
		334+89.09	334+89.03			
		387+91.23	387+90.86			
Orient Road	395+70.87			884.77	0.168	
Begin Bridge	404+55.63			642.99	0.122	
Palm River				301.87	0.057	
End Bridge	410+98.62					
78th Street	414+00.49			5,021.13	0.951	
		416+35.54	416+36.43			
		434+51.06	434+67.82			
		458+91.64	458+71.47			
		463+95.29	60+86.82			
US 301	61+10.64			6,705.11	1.270	
Falkenburg Road	128+15.74					
Total Length =					22,271.43	4.218

states

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110' ———

BASELINE & STATIONS  
 EXISTING RIGHT-OF-WAY  
 PROPOSED RIGHT-OF-WAY  
 ROADWAY  
 BRIDGE

WETLAND  
 SURFACE WATER  
 STORMWATER POND  
 BUSINESS RELOCATION  
 POTENTIAL CONTAMINATION SITE

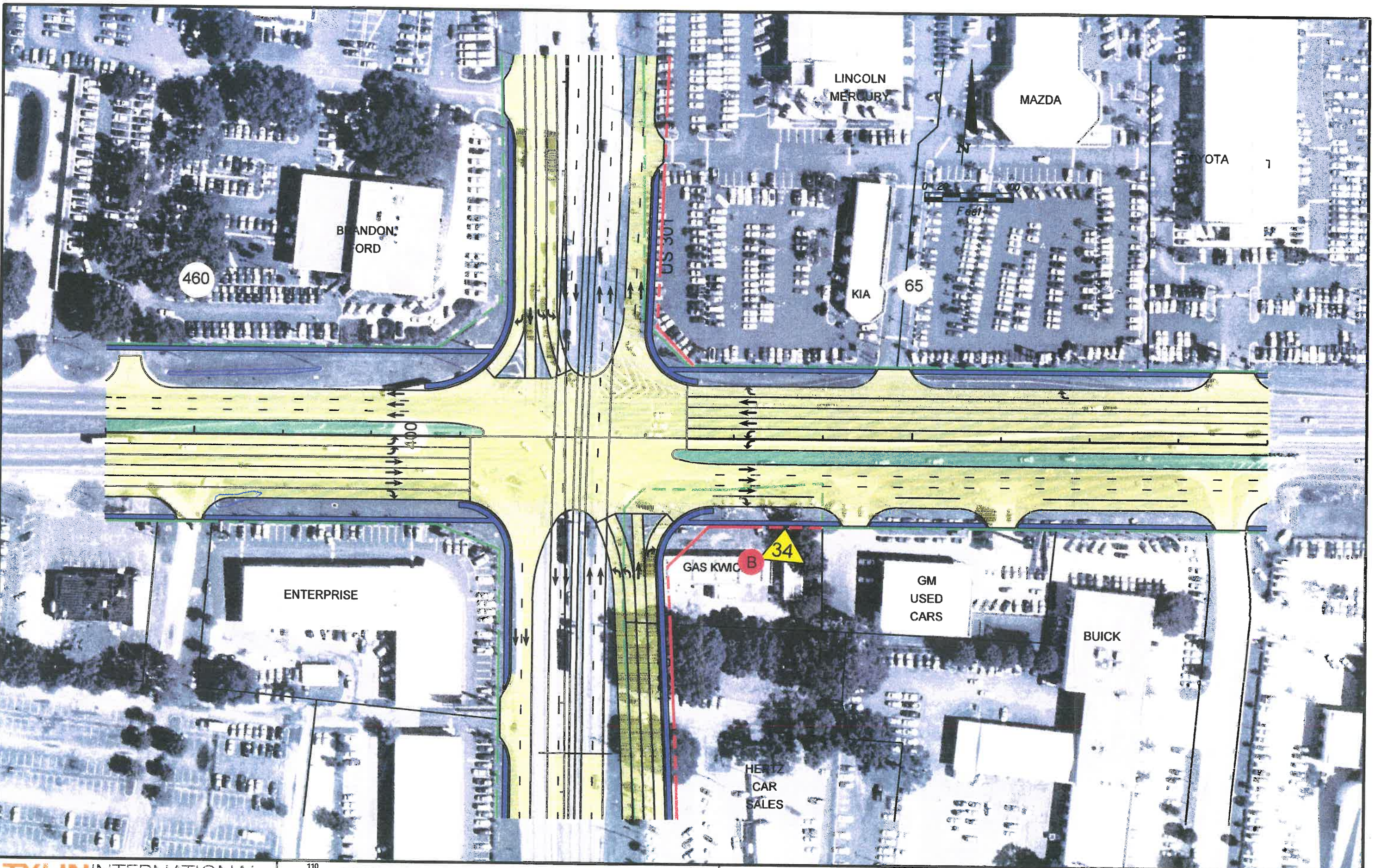
AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY: HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**US 301 INTERCHANGE OPTION PROJECT LAYOUT**  
 SHEET: I





05/31/2005

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- |     |                       |         |                              |
|-----|-----------------------|---------|------------------------------|
| 110 | BASELINE & STATIONS   | WETLAND | AERIAL FLIGHT 2002           |
|     | EXISTING RIGHT-OF-WAY |         | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY |         | STORMWATER POND              |
|     | ROADWAY               |         | BUSINESS RELOCATION          |
|     | BRIDGE                |         | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK              |         |                              |

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**US 301 INTERCHANGE OPTION**  
**SEGMENT 3**



05/31/2005



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- |     |                                |  |                              |
|-----|--------------------------------|--|------------------------------|
| 110 | <b>BASELINE &amp; STATIONS</b> |  | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY          |  | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY          |  | STORMWATER POND              |
|     | ROADWAY                        |  | BUSINESS RELOCATION          |
|     | BRIDGE                         |  | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK                       |  |                              |
- AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**US 301 INTERCHANGE OPTION**  
**SEGMENT 3**

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- 110
- BASELINE & STATIONS
- EXISTING RIGHT-OF-WAY
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- ROADWAY
- BRIDGE
- SIDEWALK

- WETLAND
- SURFACE WATER
- STORMWATER POND
- BUSINESS RELOCATION
- ▲ POTENTIAL CONTAMINATION SITE

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**

**FROM WEST OF 50TH ST. TO  
 EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH

WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE  
 US 301 INTERCHANGE OPTION  
 SEGMENT 3**

SHEET  
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- |     |                       |                              |
|-----|-----------------------|------------------------------|
| 110 | BASELINE & STATIONS   | WETLAND                      |
|     | EXISTING RIGHT-OF-WAY | SURFACE WATER                |
|     | PROPOSED RIGHT-OF-WAY | STORMWATER POND              |
|     | ROADWAY               | BUSINESS RELOCATION          |
|     | BRIDGE                | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK              |                              |

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**

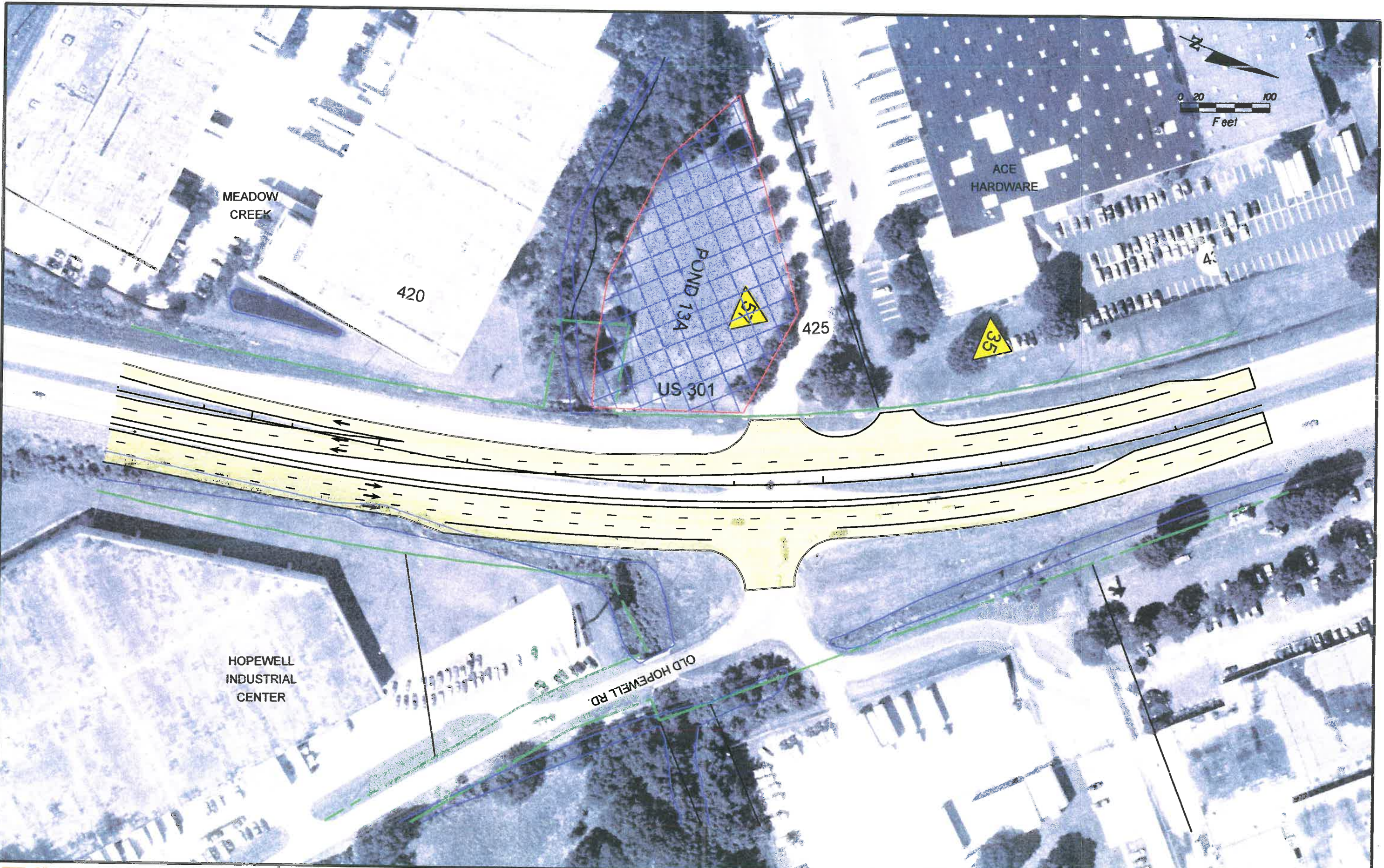
COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**US 301 INTERCHANGE OPTION**  
**SEGMENT 3**

SHEET:  
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- BRIDGE
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- WETLAND
- SURFACE WATER
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- ▲ POTENTIAL CONTAMINATION SITE

AERIAL FLIGHT 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO EAST OF FALKENBURG RD.**  
 COUNTY : HILLSBOROUGH WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**US 301 INTERCHANGE OPTION**  
**SEGMENT 3**

SHEET: 17C





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- |     |                       |                              |
|-----|-----------------------|------------------------------|
| 110 | BASELINE & STATIONS   | WETLAND                      |
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|     | PROPOSED RIGHT-OF-WAY | STORMWATER POND              |
|     | ROADWAY               | BUSINESS RELOCATION          |
|     | BRIDGE                | POTENTIAL CONTAMINATION SITE |
|     | SIDEWALK              |                              |

AERIAL  
 FLIGHT  
 2002

**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
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COUNTY : HILLSBOROUGH

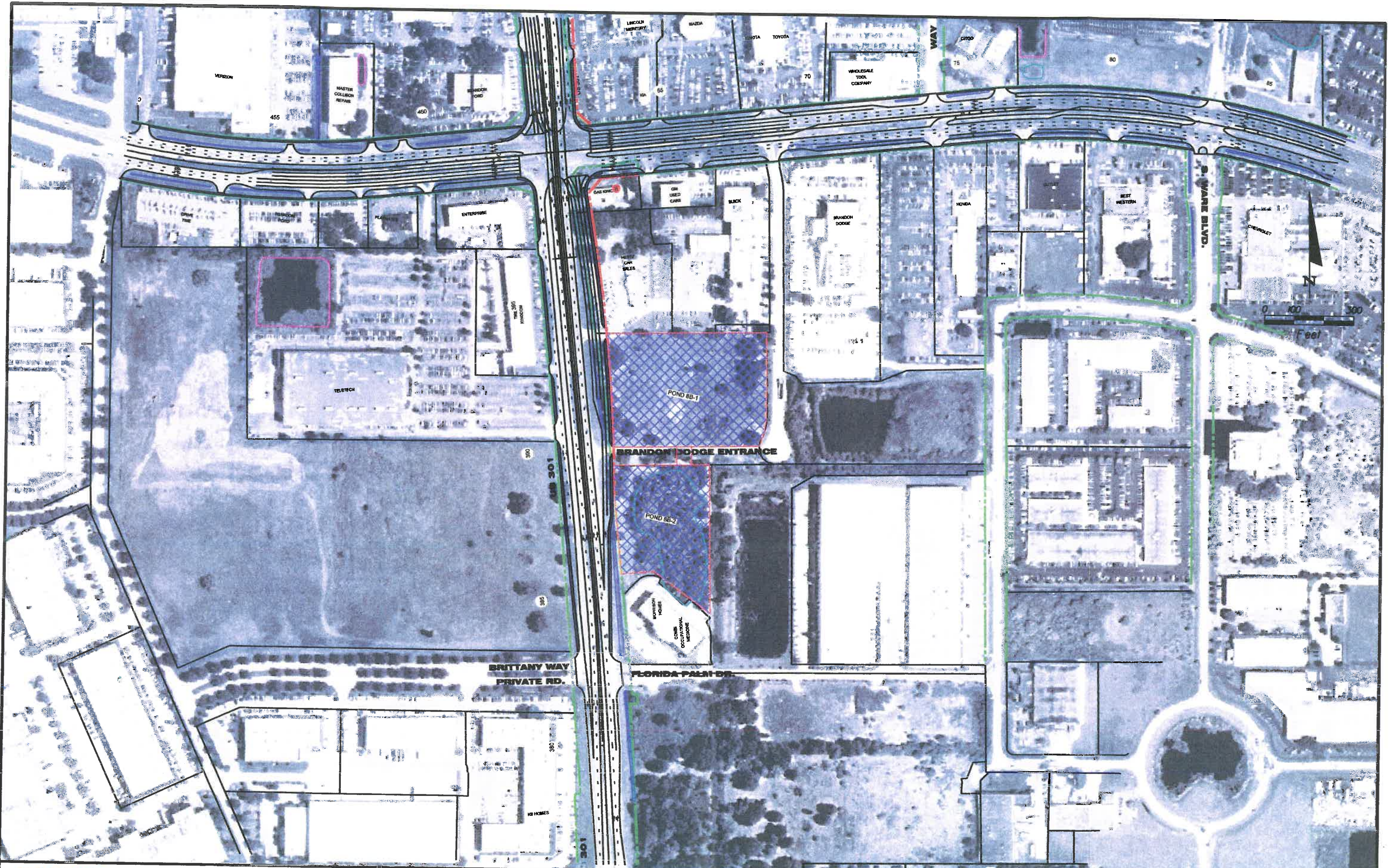
WPI SEGMENT NUMBER 405525-1



**RECOMMENDED ALTERNATIVE**  
**US 301 INTERCHANGE OPTION**  
**SEGMENT 3**

SHEET:  
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**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**

COUNTY : HILLSBOROUGH

FINANCIAL PROJECT ID : 405525-1-22-01



**RECOMMENDED ALTERNATIVE**  
**US 301 INTERCHANGE OPTION**  
**PRELIMINARY PONDS**  
**PLAN SHEET**

SHEET:  
5





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**SR 60/ADAMO DRIVE PD&E STUDY**  
**FROM WEST OF 50TH ST. TO**  
**EAST OF FALKENBURG RD.**  
 COUNTY : HILLSBOROUGH      FINANCIAL PROJECT ID : 405525-1-22-01



**RECOMMENDED ALTERNATIVE**  
**US 301 INTERCHANGE OPTION**  
**PRELIMINARY PONDS**  
**PLAN SHEET**