

 Hollywood, FL

 June 13-14, 2024



# 2024 TRANSPORTATION SYMPOSIUM

## SR 972/ CORAL WAY ROUNDAABOUT

Raymond Valido, P.E.

Francisco Lledo, E.I.



# SR 972/ CORAL WAY ROUNDAABOUT

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# AGENDA

- 1 Introductions
- 2 Project History
- 3 Planning
- 4 Design
- 5 Construction
- 6 Lessons Learned
- 7 Questions & Answers

SR 972





# INTRODUCTIONS

**Raymond Valido, P.E.**

District Roadway Design Engineer



# PROJECT TIMELINES



**2013**

Citizen Request



**2013-2014**

Traffic OPS Studies



**2016-2018**

Planning Study



**2019-2022**

Design



**2022-2023**

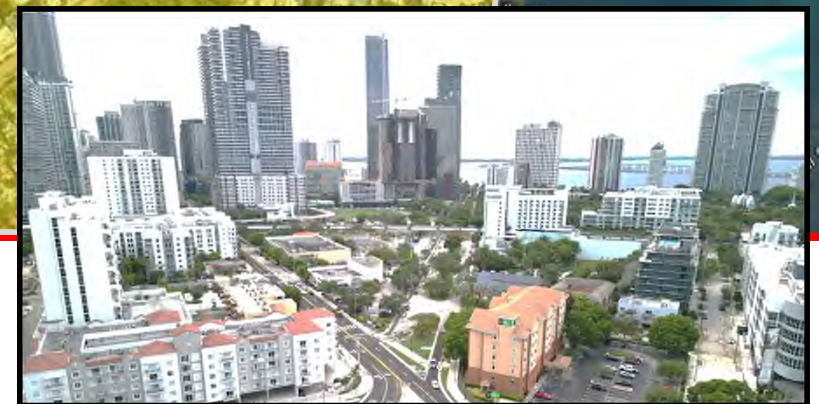
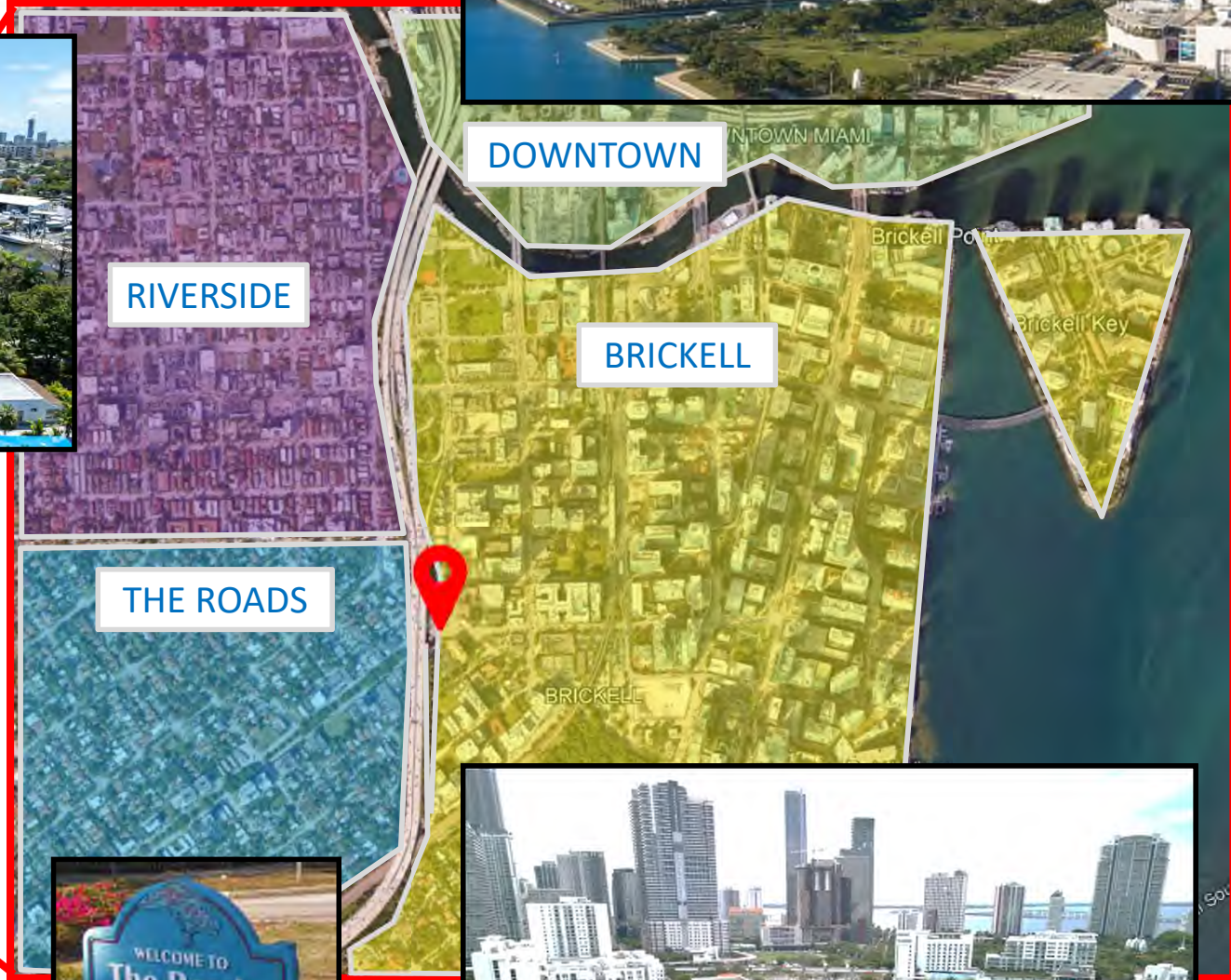
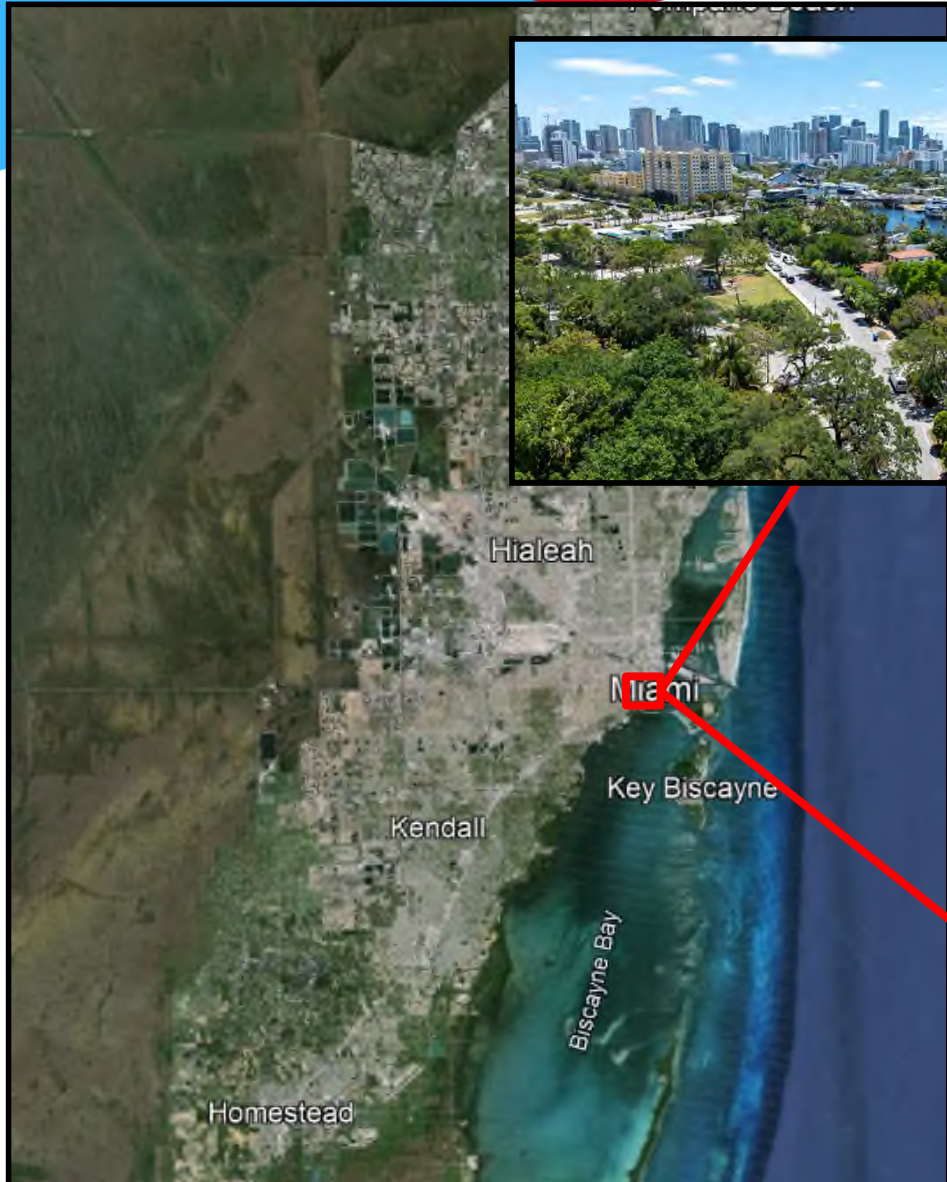
Construction



**2023-Present**

Maintenance

# PROJECT LOCATION





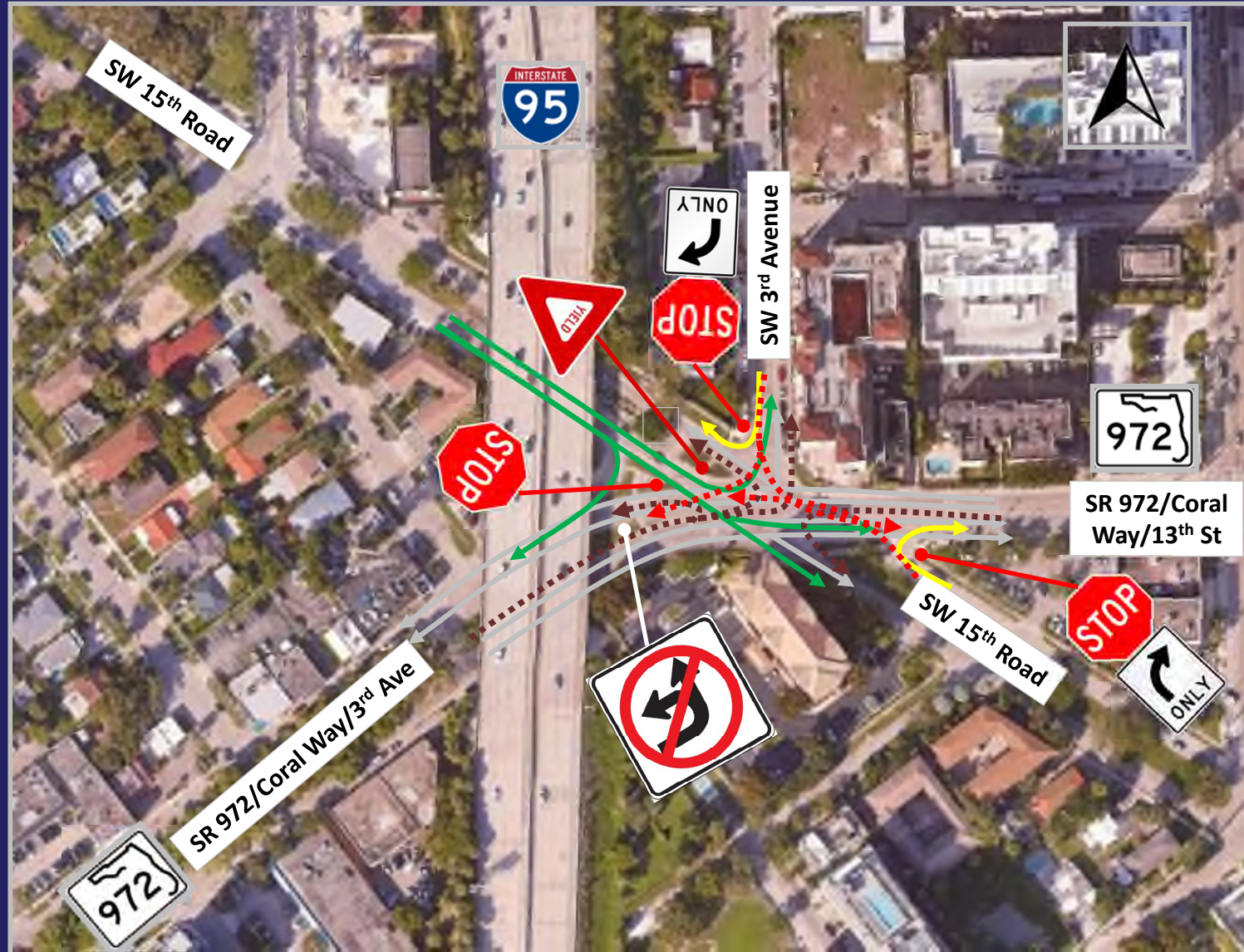
# EXISTING CONDITION



SR

972

# EXISTING CONDITION



SR

972

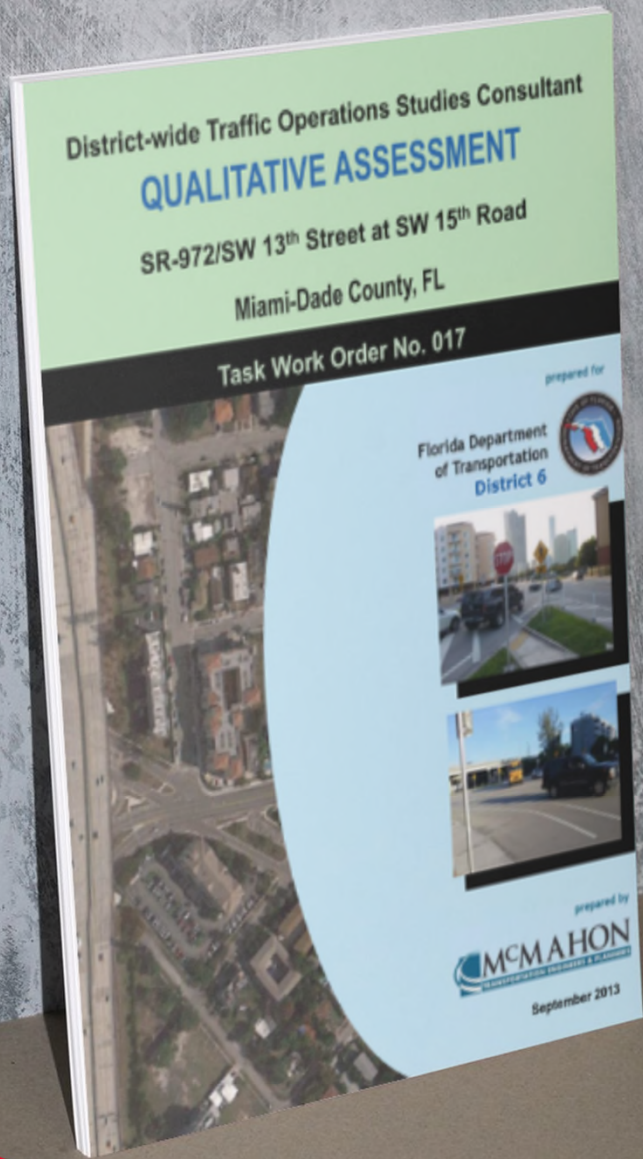


# PLANNING

## Project History

Qualitative Assessment – September 2013

- Originated through citizen email
- Findings:
  - The vehicular movements from the southeast bound and southbound approaches experience conflicts (near misses) due to a variety of reasons, particularly during the morning peak period.
  - Disregard of prohibitions
  - Signage and pavement marking prohibitions would likely not work
  - Recommended an intersection capacity and design examining a roundabout or a traffic signal at study intersection



# PLANNING

## Project History

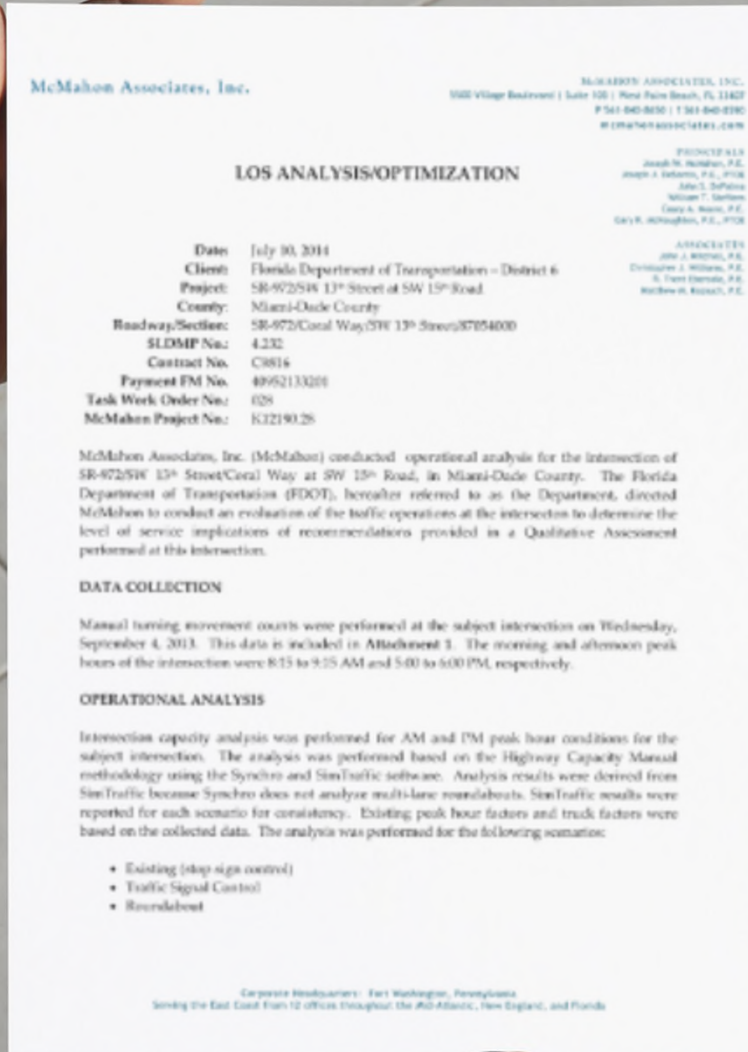
### LOS Analysis/Optimization – July 2014

- Analyzed roundabout and traffic signal options recommended in Qualitative Assessment
- Found that both options significantly improved delays
- Recommended roundabout as preferred option
- If roundabout was not feasible, traffic signal should be 2nd option

**TABLE 1  
INTERSECTION CAPACITY ANALYSIS SUMMARY**

INTERSECTION	Peak Period	Overall		Eastbound SW 13th Street		Westbound SW 13th Street		Southbound SW 3rd Avenue		Southeastbound SW 15th Road		Northwestbound SW 15th Road	
		Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
Existing (stop sign control) <sup>(1)</sup>	AM	338.0	F	8.5	A	1.8	A	NA	NA	5920.4	F	1.8	A
	PM	351.7	F	19.4	C	3.7	A	NA	NA	5470.3	F	1.9	A
Traffic Signal Control <sup>(1)</sup>	AM	25.4	C	33.6	C	6.6	A	NA	NA	37.1	D	1.8	A
	PM	14.0	B	11.3	B	9.5	A	NA	NA	34.5	C	1.9	A
Roundabout	AM	14.3	B	21.6	C	6.3	A	5.6	A	8.5	A	2.1	A
	PM	9.6	A	4.8	A	12.3	B	6.9	A	7.8	A	2.1	A

(1) Southbound, SW 3rd Avenue approach operates as a separate intersection with SW 15th Road.



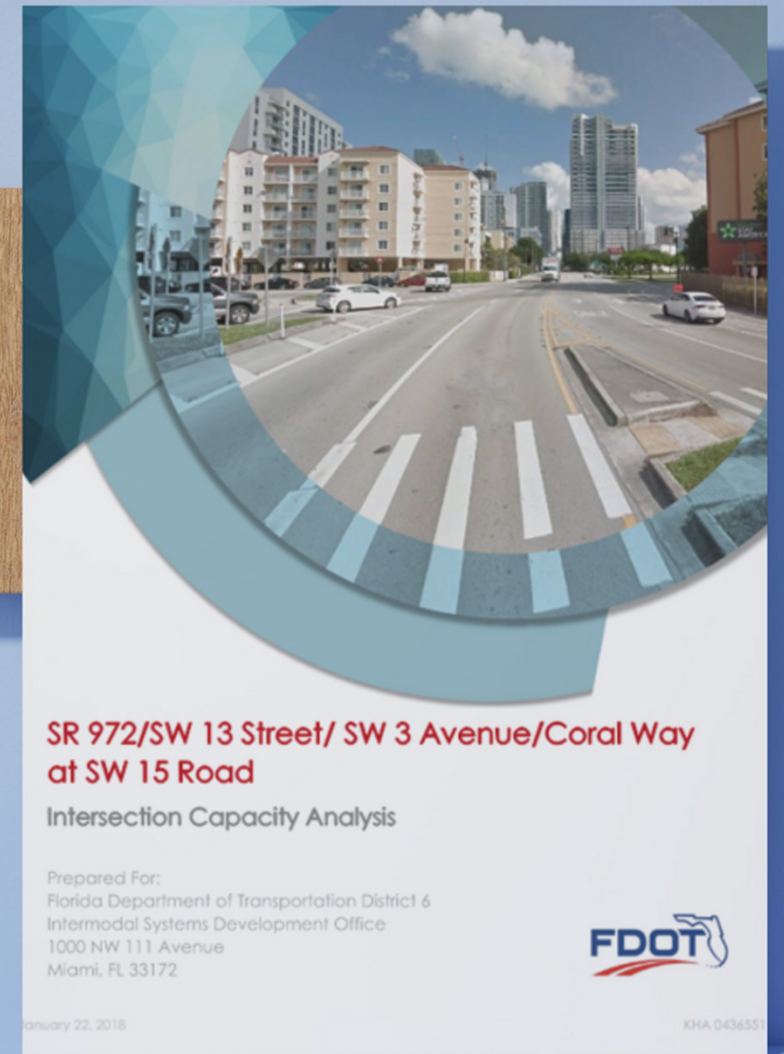
# PLANNING

## Project History

Intersection Operational Analysis – January 2018

- Re-examined operations.
- Full conceptual design of roundabout to determine construction feasibility
- Extensive public outreach

# SR 972



# PLANNING – COLLISION DIAGRAM

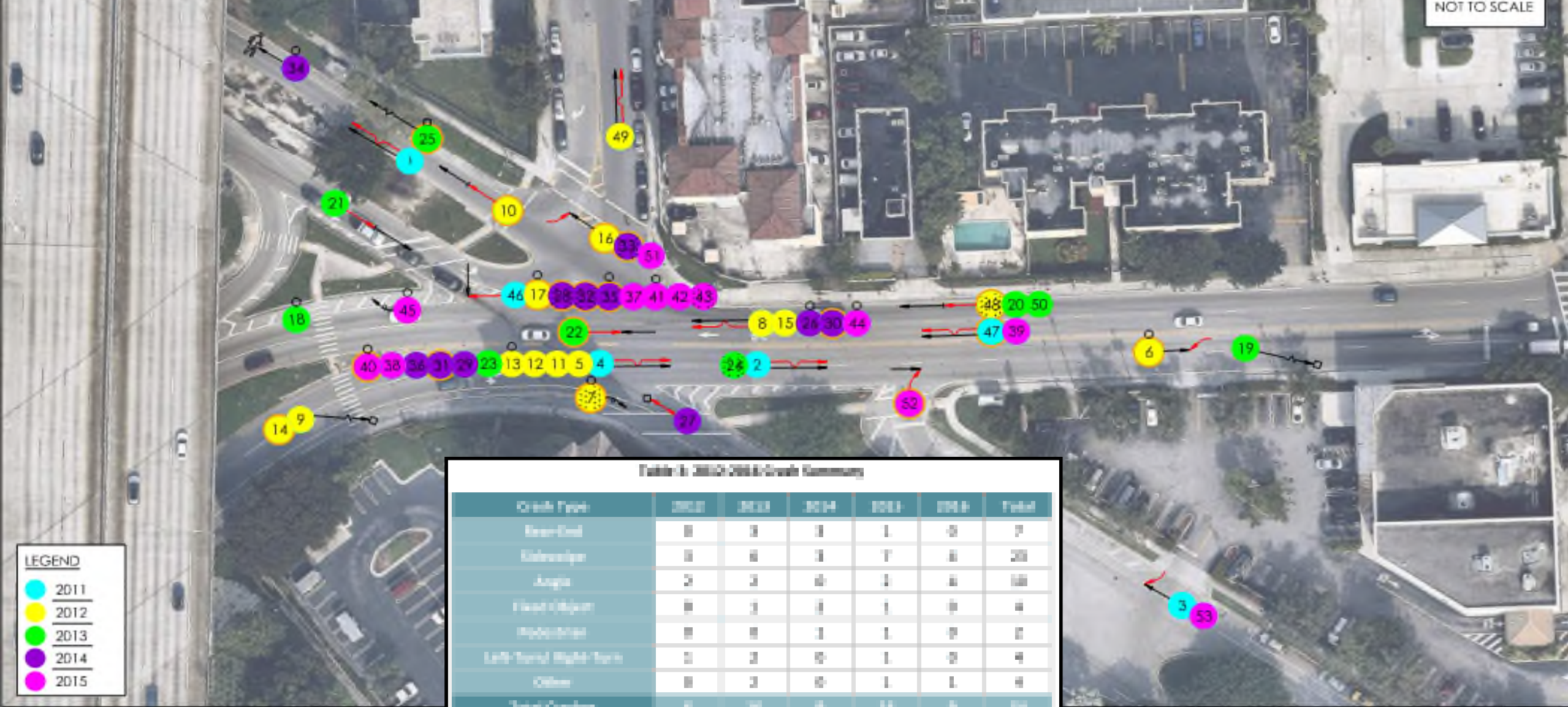


Table 4: 2011-2015 Crash Summary

Crash Type	2011	2012	2013	2014	2015	Total
Rear-End	0	0	0	1	0	1
Kidnaping	0	0	0	1	0	1
Angle	2	2	0	1	0	5
Fixed Object	0	1	0	1	0	2
Head-on	0	0	0	1	0	1
Left-Turn Right-Turn	0	0	0	1	0	1
Other	0	0	0	1	1	2
<b>Total Crashes</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>10</b>

- LEGEND**
- 2011
  - 2012
  - 2013
  - 2014
  - 2015

COLLISION DIAGRAM

# PLANNING – TRAFFIC ANALYSIS



# PLANNING – TRAFFIC ANALYSIS

Table 1: Summary of Traffic Analysis Data (Left Panel)

Category	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7
Category 1	Item 1.1	Item 1.2	Item 1.3	Item 1.4	Item 1.5	Item 1.6	Item 1.7
Category 2	Item 2.1	Item 2.2	Item 2.3	Item 2.4	Item 2.5	Item 2.6	Item 2.7
Category 3	Item 3.1	Item 3.2	Item 3.3	Item 3.4	Item 3.5	Item 3.6	Item 3.7
Category 4	Item 4.1	Item 4.2	Item 4.3	Item 4.4	Item 4.5	Item 4.6	Item 4.7

Table 2: Summary of Traffic Analysis Data (Right Panel)

Category	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7
Category 1	Item 1.1	Item 1.2	Item 1.3	Item 1.4	Item 1.5	Item 1.6	Item 1.7
Category 2	Item 2.1	Item 2.2	Item 2.3	Item 2.4	Item 2.5	Item 2.6	Item 2.7
Category 3	Item 3.1	Item 3.2	Item 3.3	Item 3.4	Item 3.5	Item 3.6	Item 3.7
Category 4	Item 4.1	Item 4.2	Item 4.3	Item 4.4	Item 4.5	Item 4.6	Item 4.7

# PLANNING

## Conceptual Design Challenges

### Limited R/W and potential tree impacts

- Full LIDAR survey of intersection

### Historical designation

- PLEMO research of legislation

### Westbound queues from Brickell Avenue

- Metering signals at roundabout entries

### Pedestrian crossings

- Signalized crossings at metering signals

### Roundabout capacity/lane continuity

- 2 lanes along Coral Way alignment

### First roundabout in District 6

- Extensive coordination internally, City of Miami Public Works Department, and Miami-Dade County Traffic/TS&S Division



# PLANNING

## Public Outreach

### Homeowner's Associations

- The Roads Civic Association (2)
- Brickell Homeowner's Association

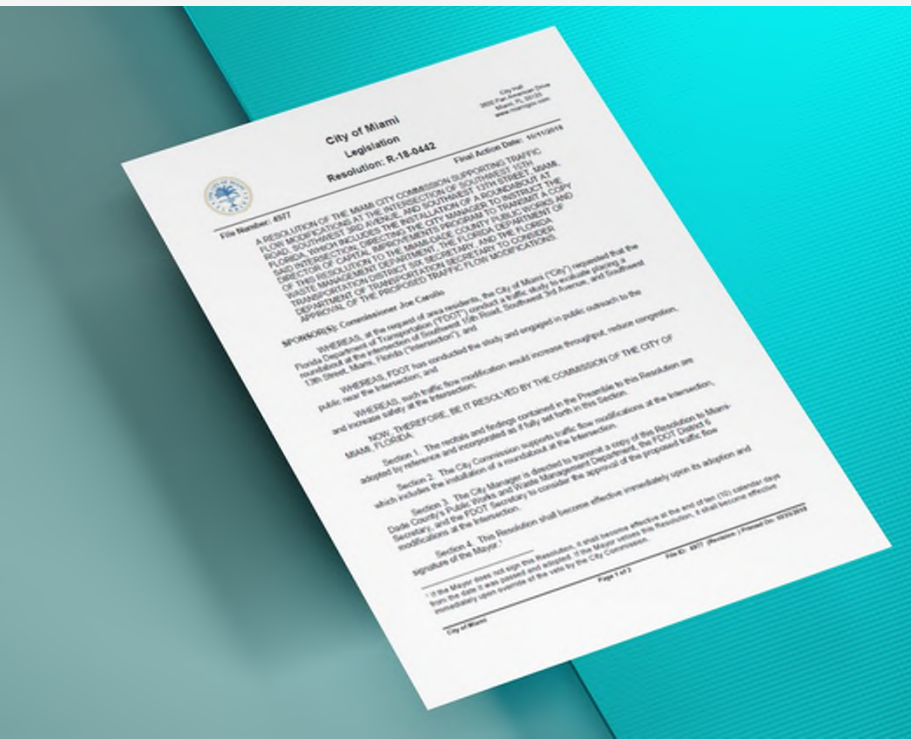
### City of Miami

- City Manager's Office
- District Commissioner's Office
- Mayor's Chief of Staff
- City Commission Meeting - Resolution

### Miami-Dade County

- Transportation Planning Organization Staff
- District Commissioner's Office

### Public Workshop





# DESIGN PHASE

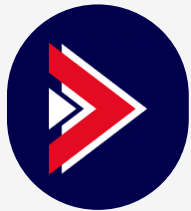


## Team



### INTERNAL DESIGN PROJECT

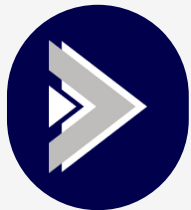
produced by FDOT Staff.



### COMPONENTS PLAN SETS

completed by internal staff:

- Roadway
- Signing and Marking
- Signals
- Lighting



### COMPONENT PLANS SETS

completed by consultant support:

- Landscape Architecture



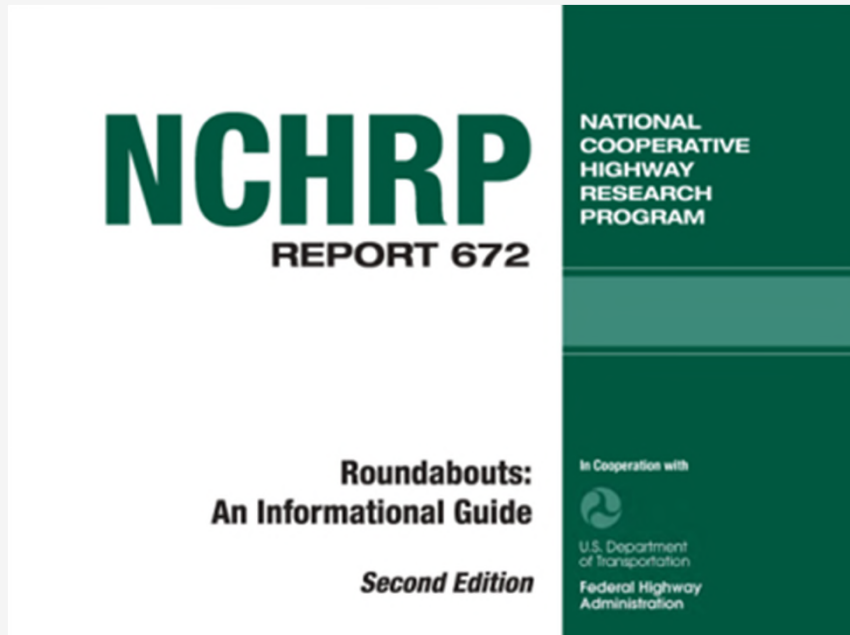
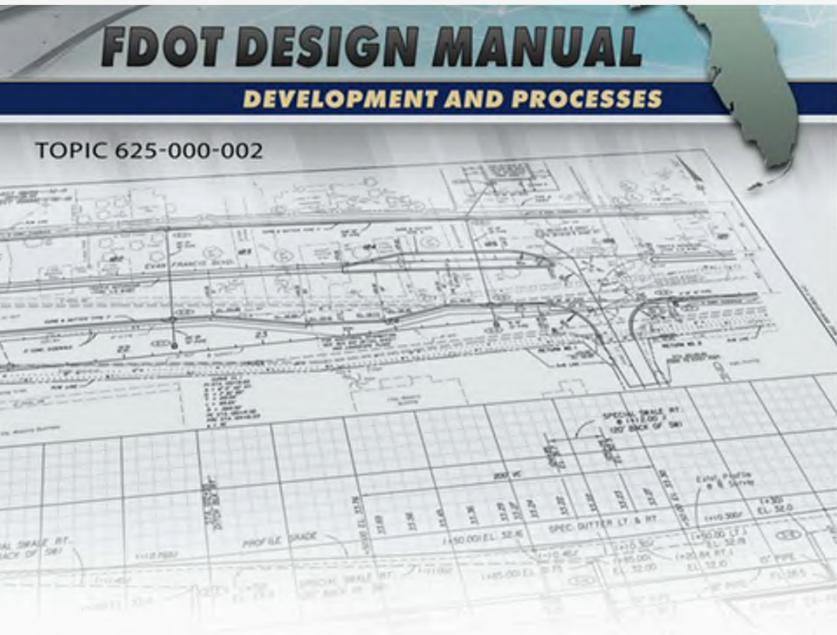
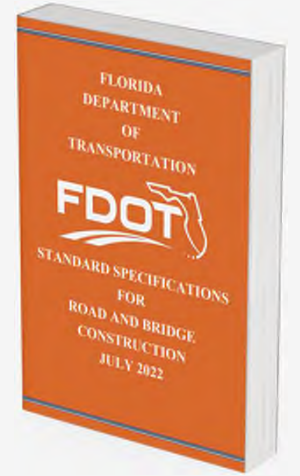
## Schedule

- PE Begin - 4/15/2019
- 30% - 12/6/2019
- 60% - 6/5/2020
- 90% - 10/30/2020
- 100% - 6/21/2021
- Plans Complete - 11/16/2021
- Production - ~~8/22/2022~~ **1/4/2022**
- Letting - ~~1/26/2023~~ **5/26/2022**

# DESIGN PHASE

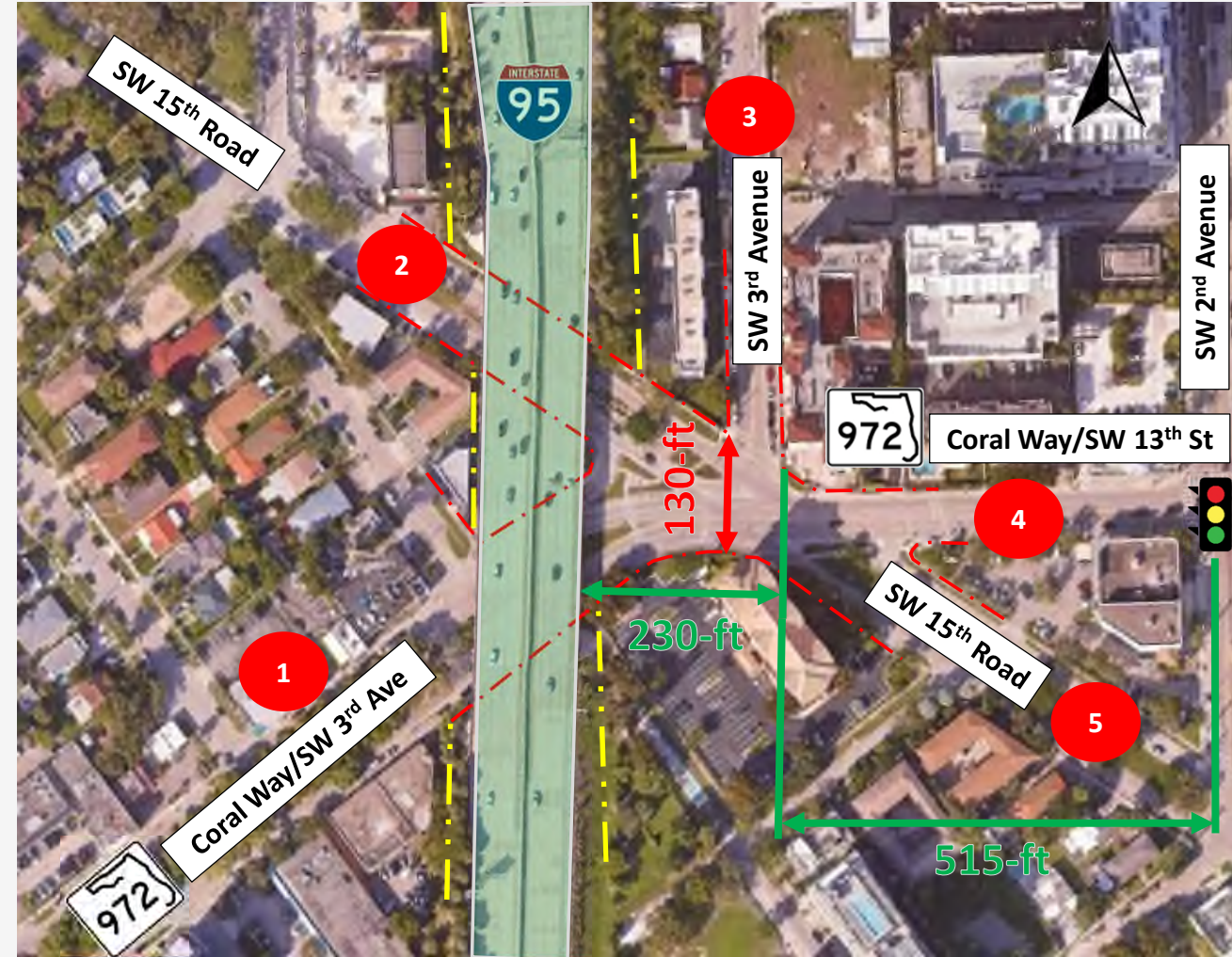
## Roadway Design

- 2022 FDOT Design Manual (FDM)
  - Supplemented by National Cooperative Highway Research Program (NCHRP) Report 672, Roundabouts: An Informational Guide.
- January 2022 Standard Specifications for Road and Bridge Construction
- FY 2021-22 Standard Plans for Road and Bridge Construction



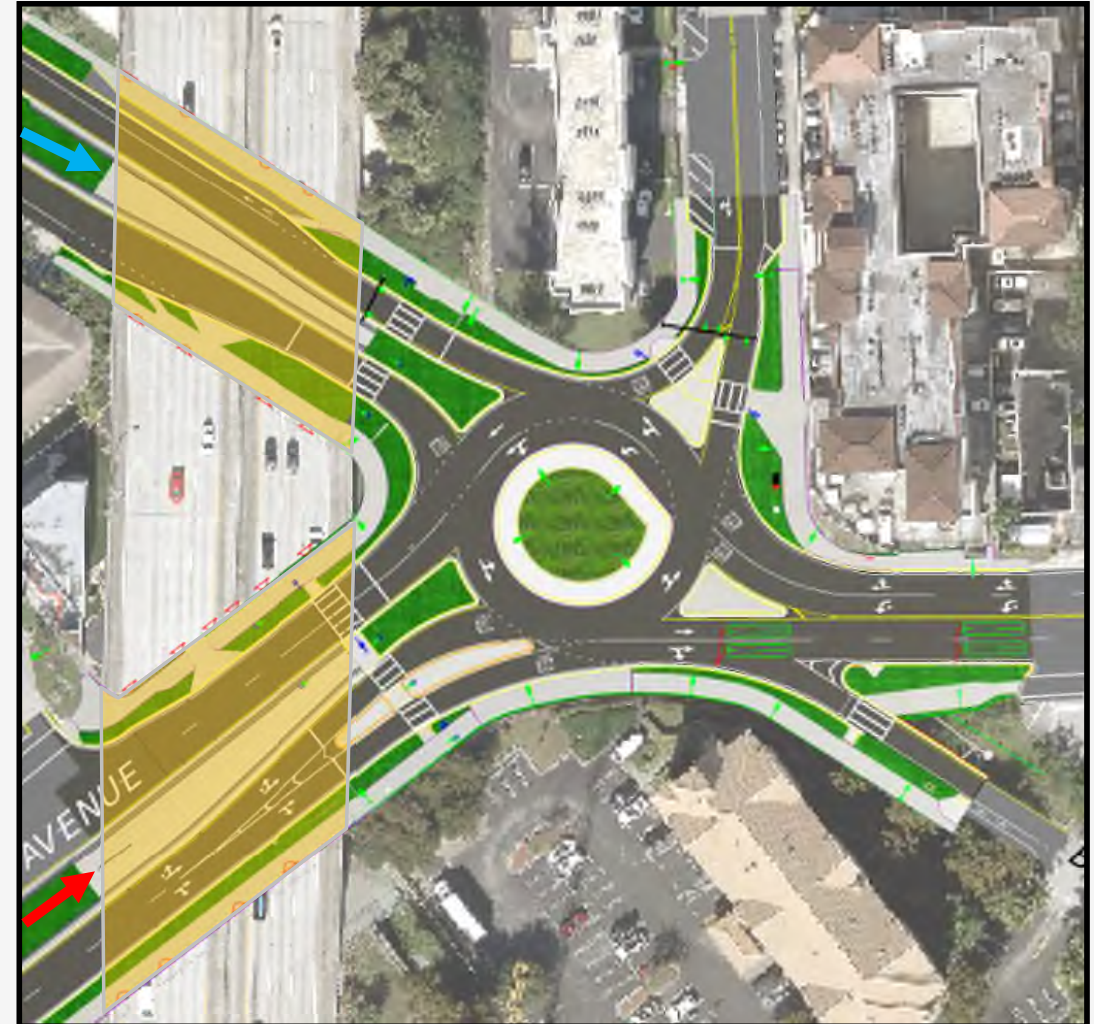
# DESIGN – ROADWAY CONSTRAINTS

- 5-Legged Intersection
- Constrained R/W
- Proximity to I-95
- Proximity to signalized intersection



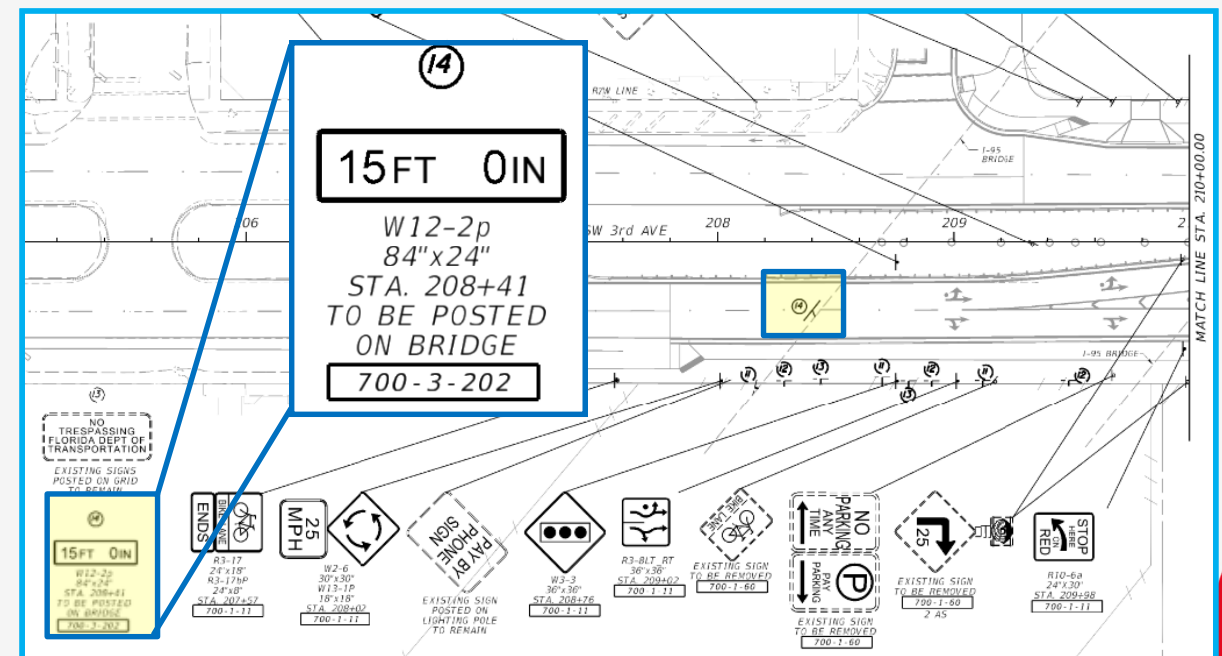
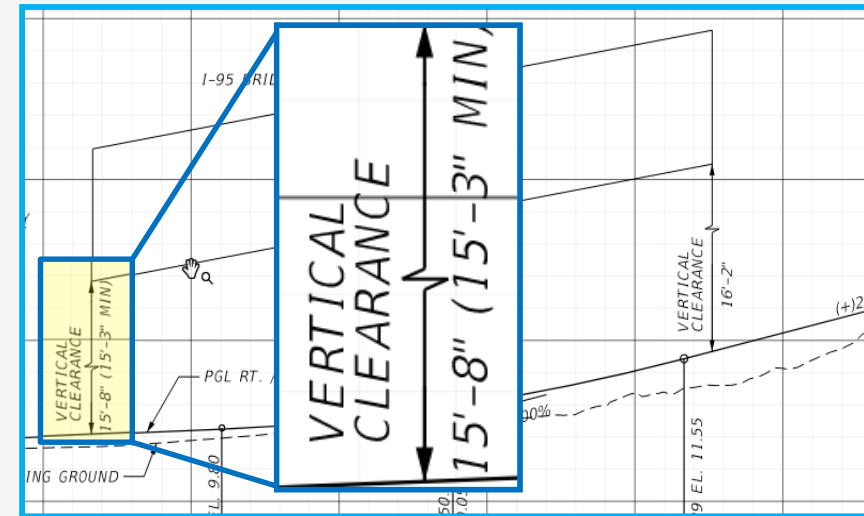
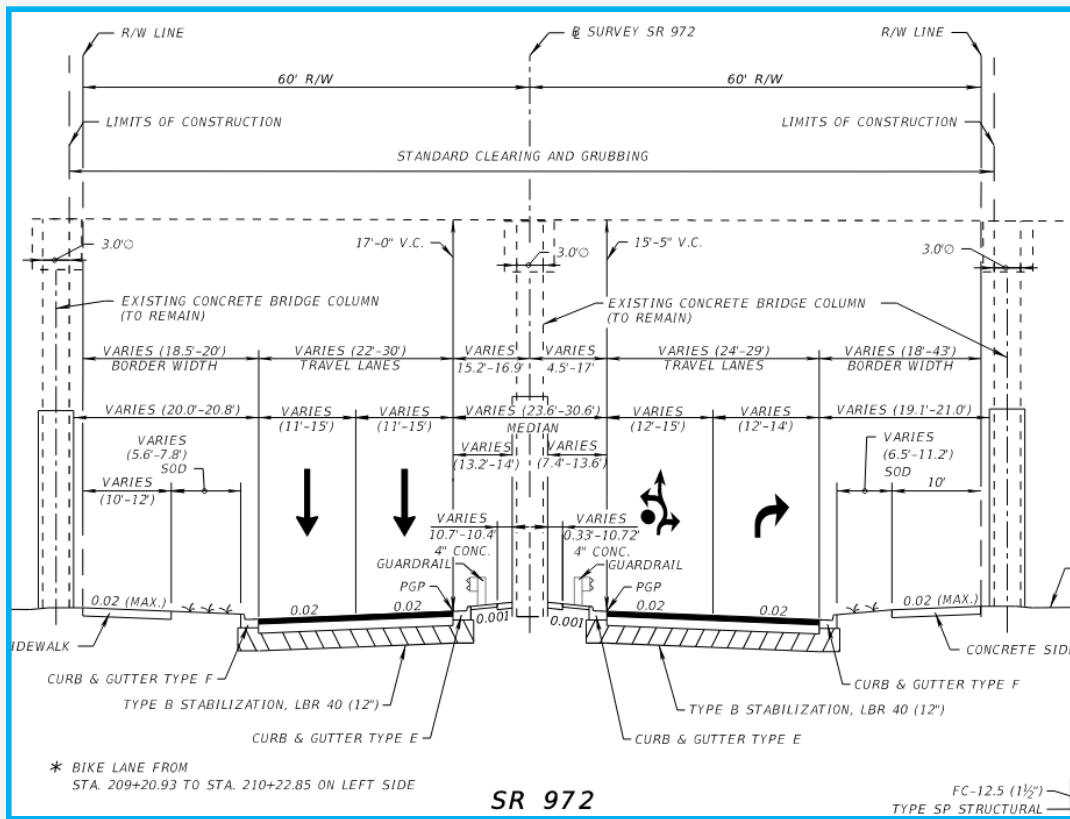
# DESIGN - ROADWAY GEOMETRY

- Existing I-95 Bridge
  - Deficient Vertical Clearance



# DESIGN – VERTICAL CLEARANCE

**SR 972 / Coral Way**



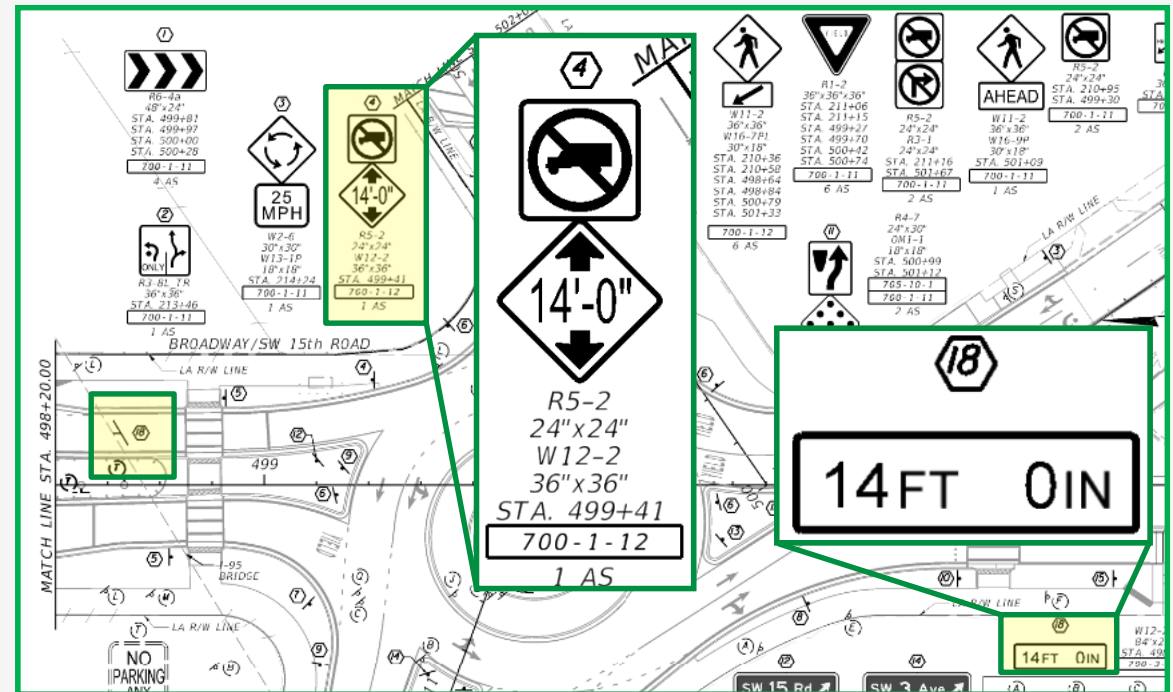
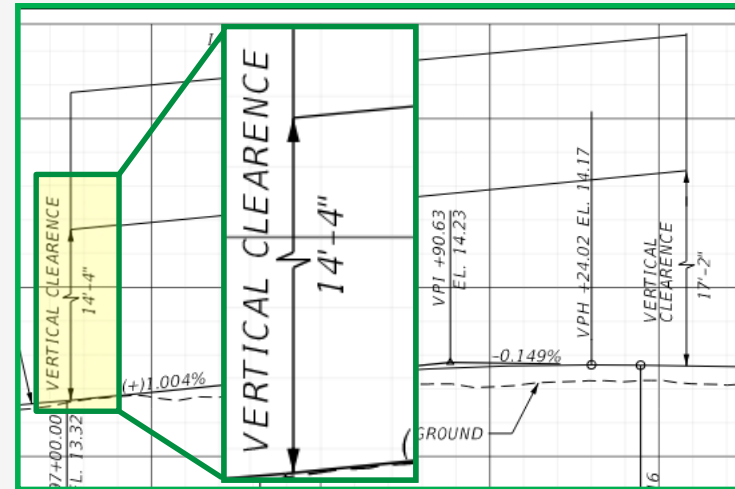
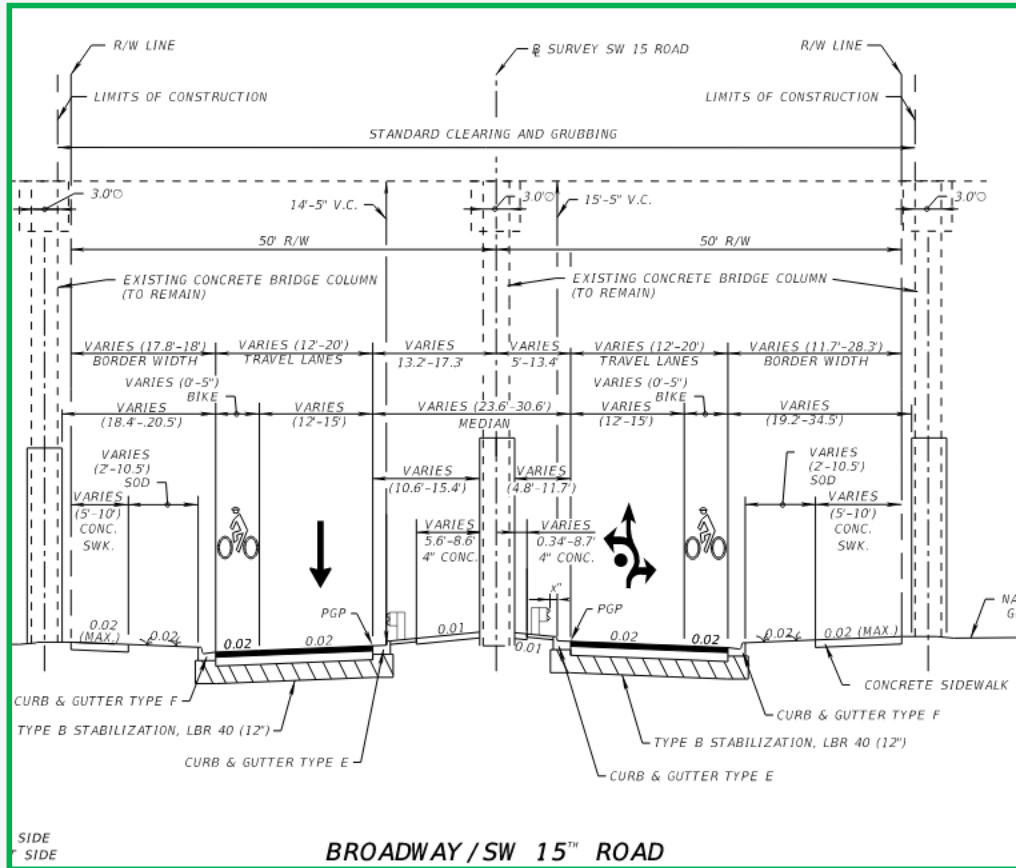
# DESIGN – VERTICAL CLEARANCE

SR 972 / Coral Way



# DESIGN - VERTICAL CLEARANCE

## SW 15<sup>th</sup> Road



# DESIGN – VERTICAL CLEARANCE

SW 15<sup>th</sup> Road



Looking west from SW 3<sup>rd</sup> Avenue



WB SR 972 to SW 15<sup>th</sup> Road



# DESIGN – ROADWAY GEOMETRY

- **Historic Highway**

- 1984 Senate Bill No. 795
- Limits impacts to roadway and landscaping along SR 972/Coral Way
- Controlled approach to horizontal and vertical alignment
- Impacted approach to TTCP

CHAPTER 84-378 LAWS OF FLORIDA CHAPTER 84-378

Approved by the Governor May 31, 1984.

Filed in Office Secretary of State May 31, 1984.

CHAPTER 84-379

Senate Bill No. 795

An act relating to the designation of state historic highways; designating Coral Way in Dade County as a state historic highway; providing a definition; providing restrictions on the removal of trees from said highway; restricting alterations to the physical dimensions or location of the highway; providing for a public meeting prior to the removal of trees under certain circumstances; providing for the erection of suitable markers; providing an effective date.

WHEREAS, in 1929 Mr. A. D. Barnes, an employee of Dade County, undertook the project of beautifying the then barren and undeveloped roadway from SW 15th Road to SW 37th Avenue known as Coral Way, and

WHEREAS, on Independence Day, 1929, the first banyan trees were planted on both sides of Coral Way, thereby establishing the first use of ficus trees as a continuous roadside landscape design in South Florida, and

WHEREAS, in 1938, when the streetcar tracks were removed from the median of Coral Way, the banyan trees were relocated to a continuous median landscaping thereby creating the unique character, form, and scale of Coral Way, and

WHEREAS, it is the finding of the Legislature that Coral Way should be preserved in order that present and future residents of Florida may enjoy its benefits, NOW, THEREFORE,

Be It Enacted by the Legislature of the State of Florida:

Section 1. As used in this act, "Coral Way" means those portions of Coral Way and 3rd Avenue located between SW 37th Avenue and Interstate 95, in Dade County.

Section 2. Coral Way is hereby designated as a state historic highway. No state funds shall be expended by any public body or agency for any of the following purposes:

(1) To cut or remove any tree having a diameter at its thickest part in excess of 6 inches within 35 feet of either side of the paved surface or the median of Coral Way, or to engage in an activity which requires the removal without replacement of such a tree;

(2) To alter the physical dimensions or location of Coral Way except for the addition of primary or secondary roads intersecting the limits of Coral Way.

Nothing in this act shall be construed to prevent the ordinary maintenance and repair of Coral Way, provided the physical dimensions and location of Coral Way are preserved, nor to prevent any work that

CHAPTER 84-379 LAWS OF FLORIDA CHAPTER 84-379

is necessary for the public health or safety as determined by the agency having jurisdiction over the portion of Coral Way involved. The term "ordinary maintenance" means those activities necessary to preserve the existing traffic patterns including left turn lanes and median crossings and to accommodate the volume of traffic operating on Coral Way on the effective date of this act. However, the preservation of Coral Way and the median landscaping take priority over considerations of traffic management, and the public safety shall not be construed to require alterations in Coral Way or the median landscaping when alternative means of promoting safety, including more restrictive traffic regulations, are available.

Section 3. Prior to the performance of any work necessary for the public health or safety that requires removal in its entirety of any tree within the median of Coral Way, the agency having jurisdiction over the portion of Coral Way involved shall hold an advertised public meeting to present findings of fact necessitating said work and removal of trees.

Section 4. The provisions of this act shall not supersede a more restrictive law, ordinance, or regulation already in effect or taking effect after the effective date of this act.

Section 5. The Division of Archives, History, and Records Management of the Department of State shall provide for the erection of suitable markers on and along Coral Way.

Section 6. This act shall take effect upon becoming a law.

Approved by the Governor June 7, 1984.

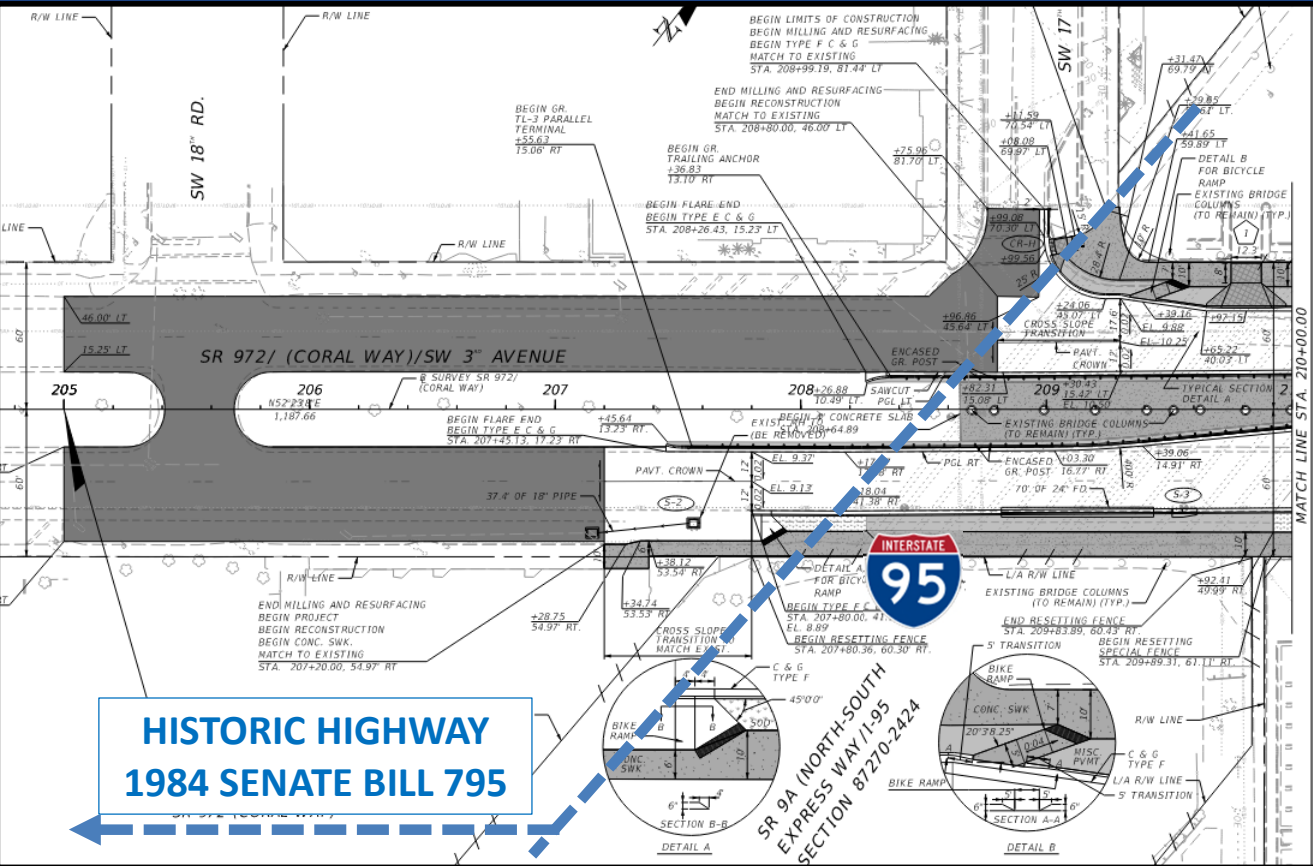
Filed in Office Secretary of State June 7, 1984.



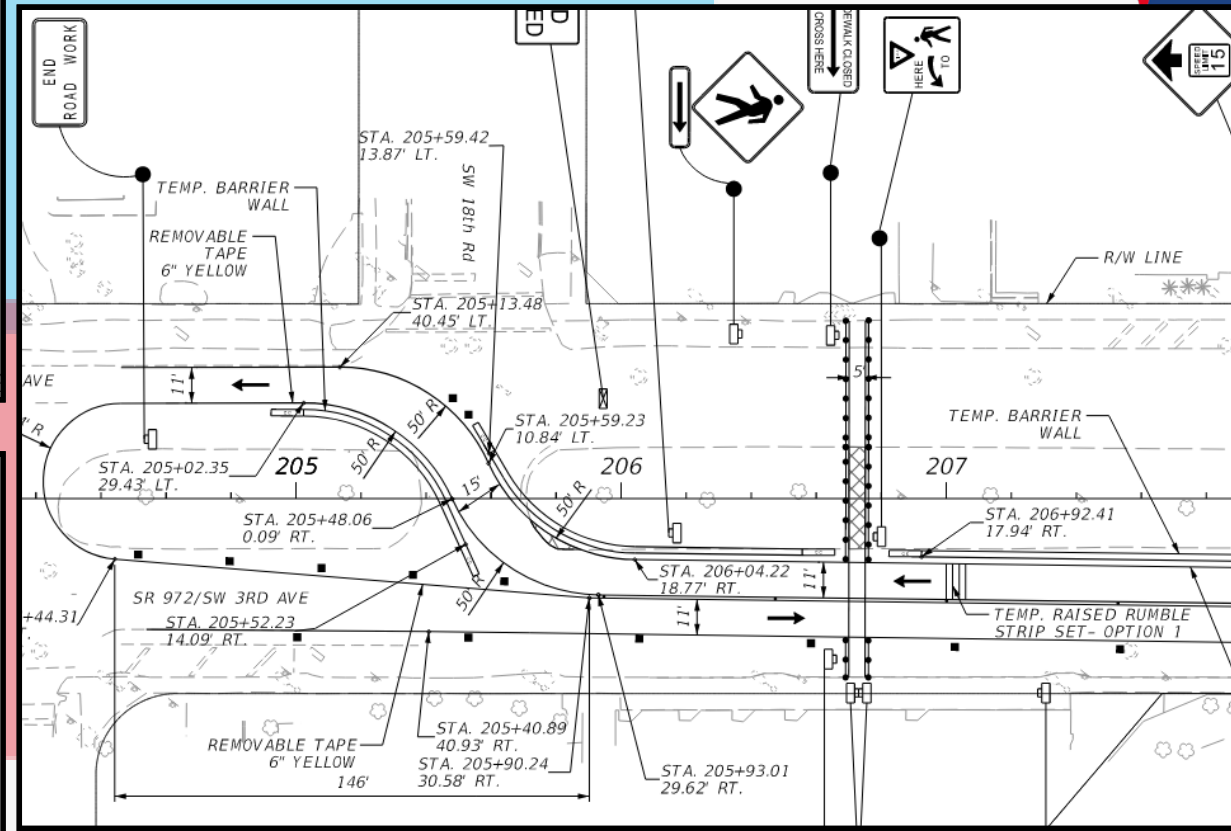
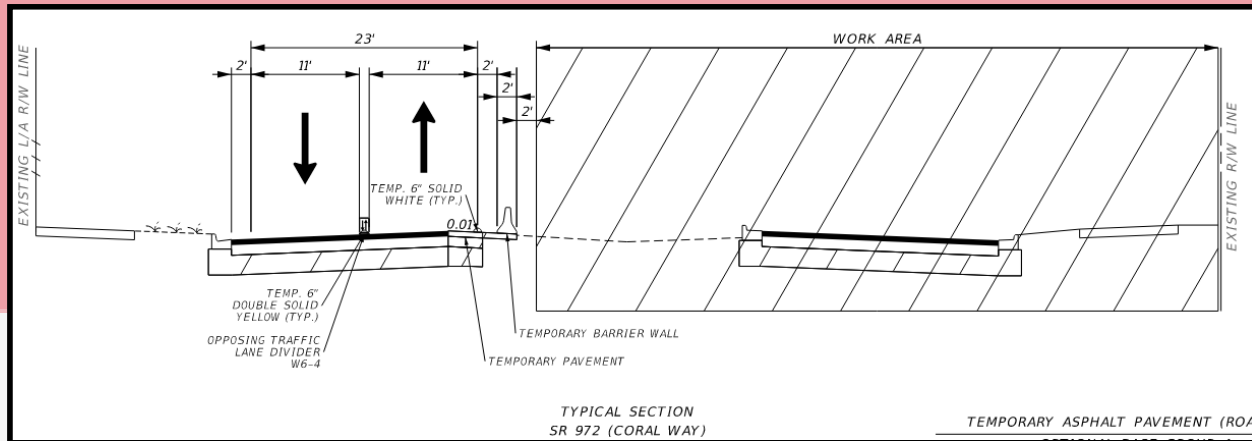
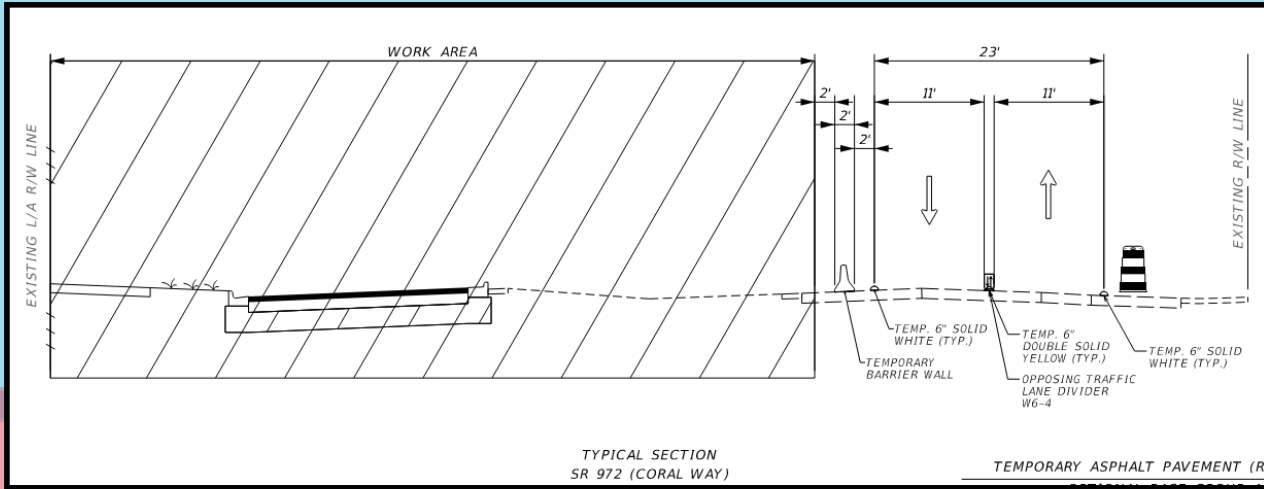
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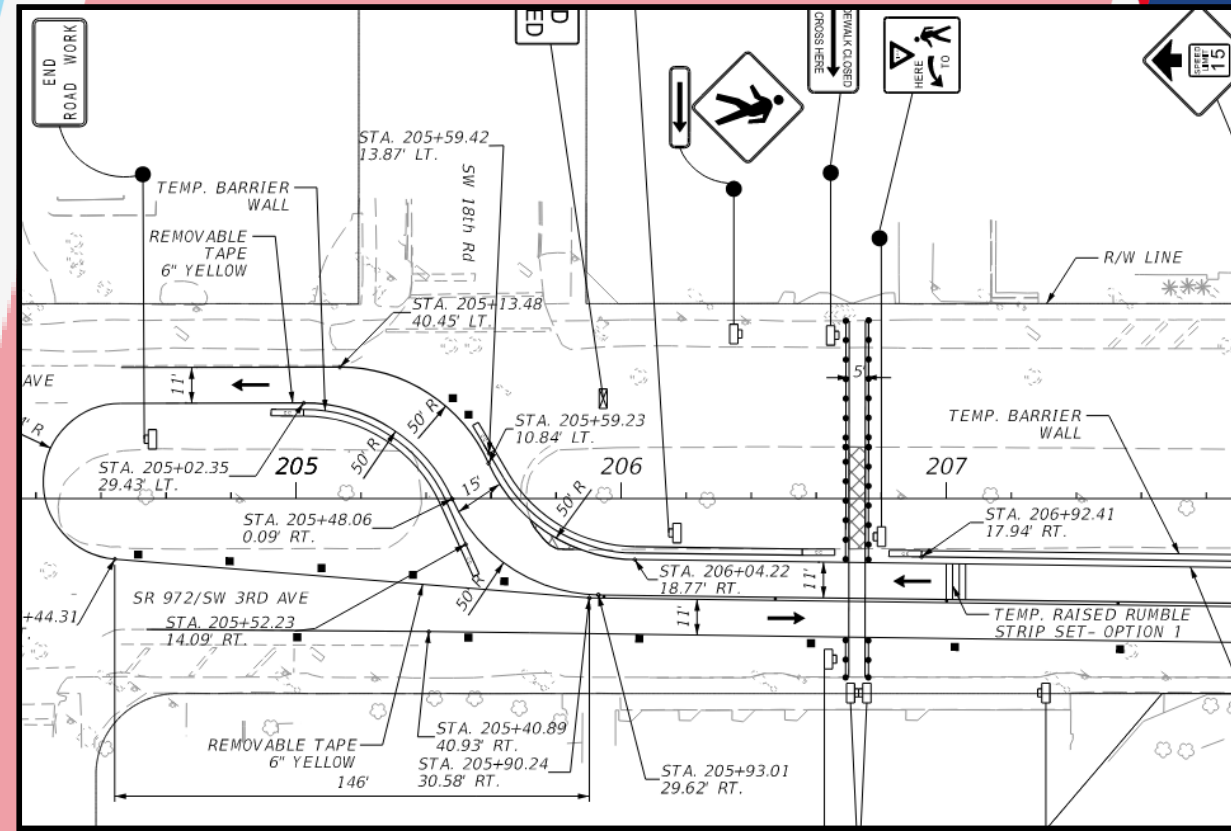
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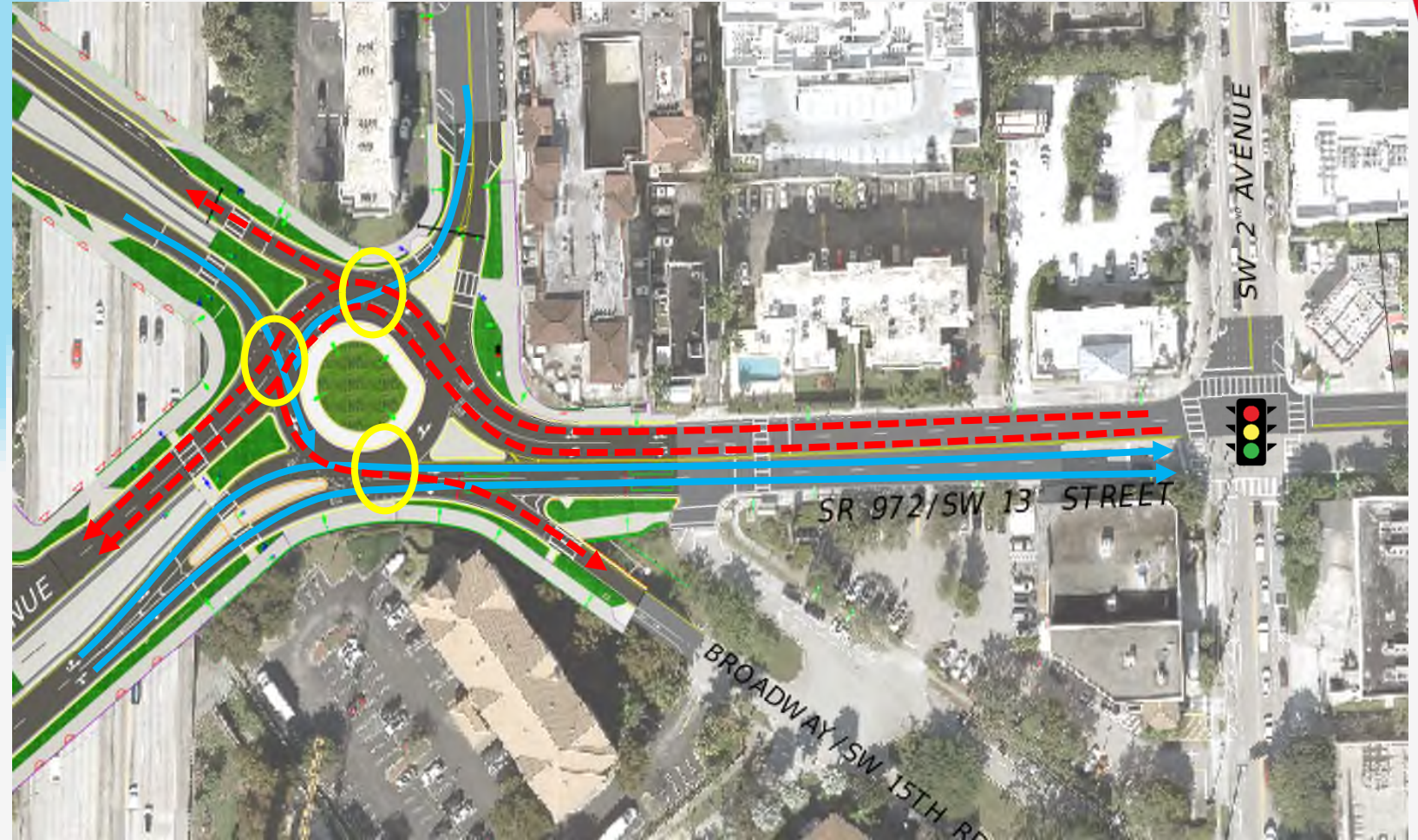


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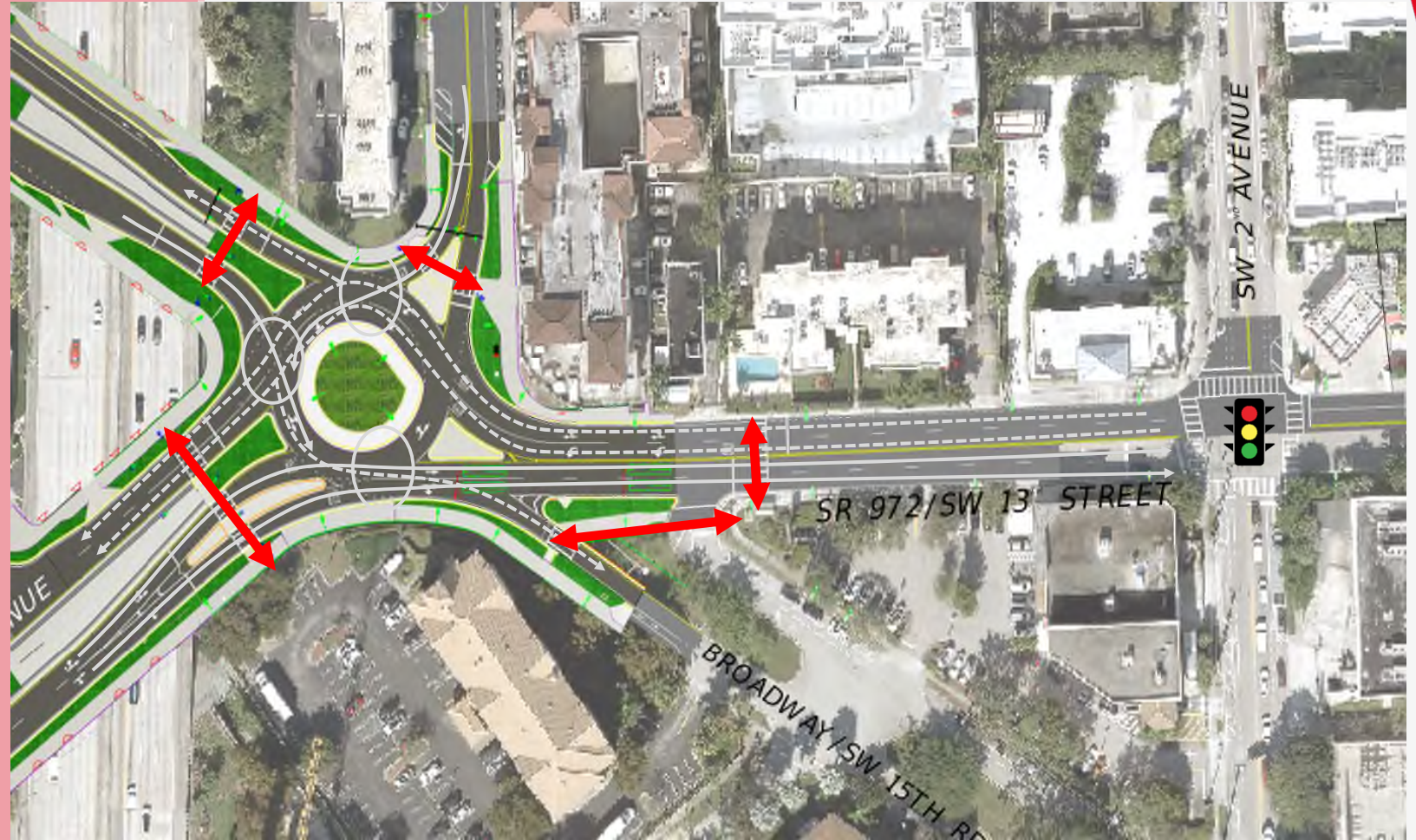
# DESIGN – SIGNALIZATION

- Concerns with peak hour queues from SW 2<sup>nd</sup> Ave signalized intersection
- Pedestrian Signalization



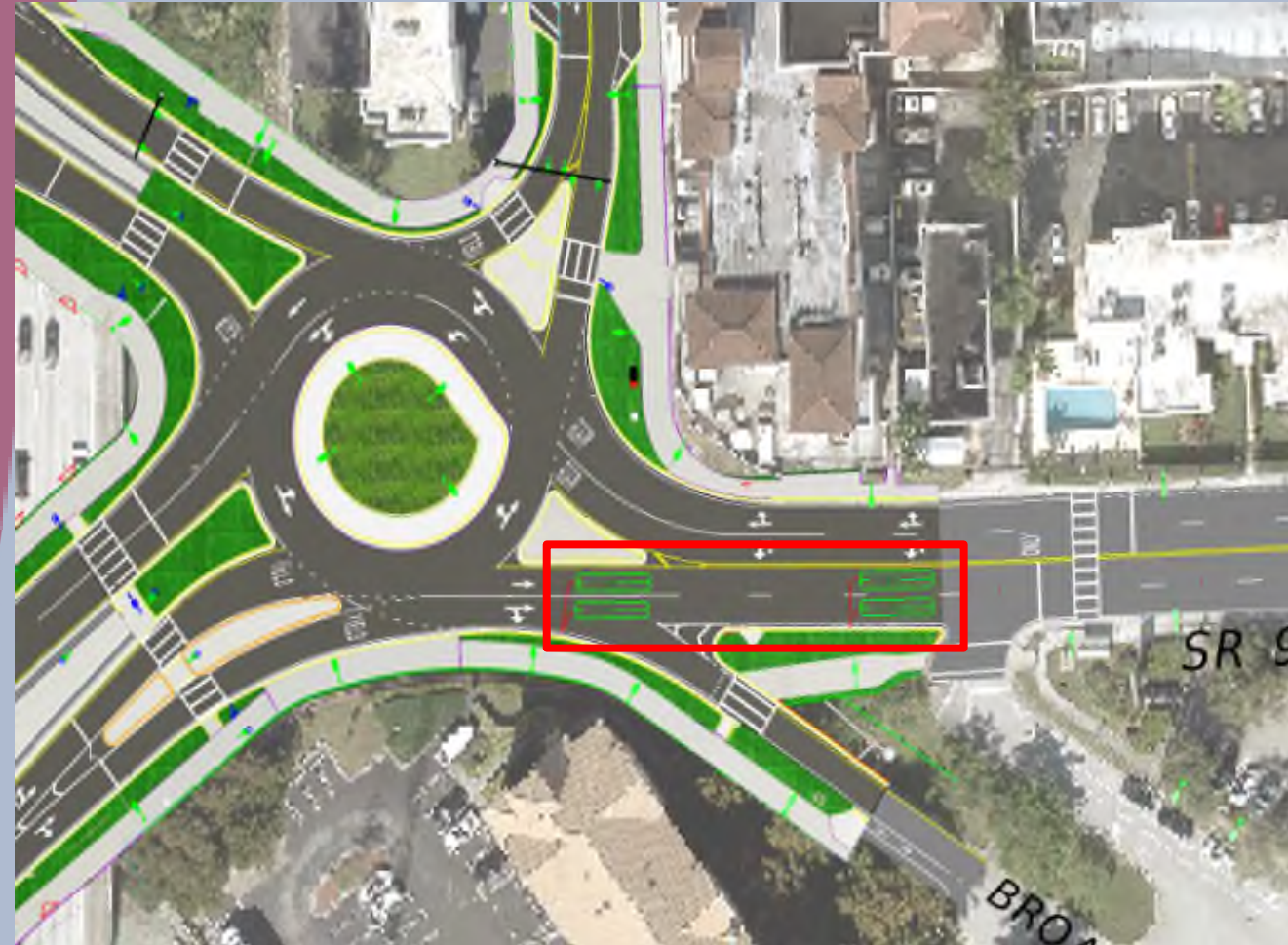
# DESIGN – SIGNALIZATION

- Concerns with peak hour queues from SW 2<sup>nd</sup> Ave signalized intersection
- Pedestrian Signalization



# DESIGN – SIGNALIZATION

- Vehicular queue detection
- Vehicular and pedestrian signalization





# DESIGN – SIGNALIZATION



# DESIGN – SIGNALIZATION



# DESIGN – UTILITIES



Florida Department of Transportation

RON DESANTIS  
GOVERNOR

1000 NW 111th Avenue  
Miami, FL 33172-5800

KEVIN J. THIBAULT  
SECRETARY

## MEMORANDUM

Date: December 1, 2021

To: Natalie Garganta, P.E., Project Manager

From: Xenia Rodriguez, District Utility Administrator

Concurrence: M. Dubrovsky, P.E., District Construction Plans Review Engineer,

Copies: N. Garganta, P.E., M. Dubrovsky, P.E., V. Lemus, P.E., L. Fuentes

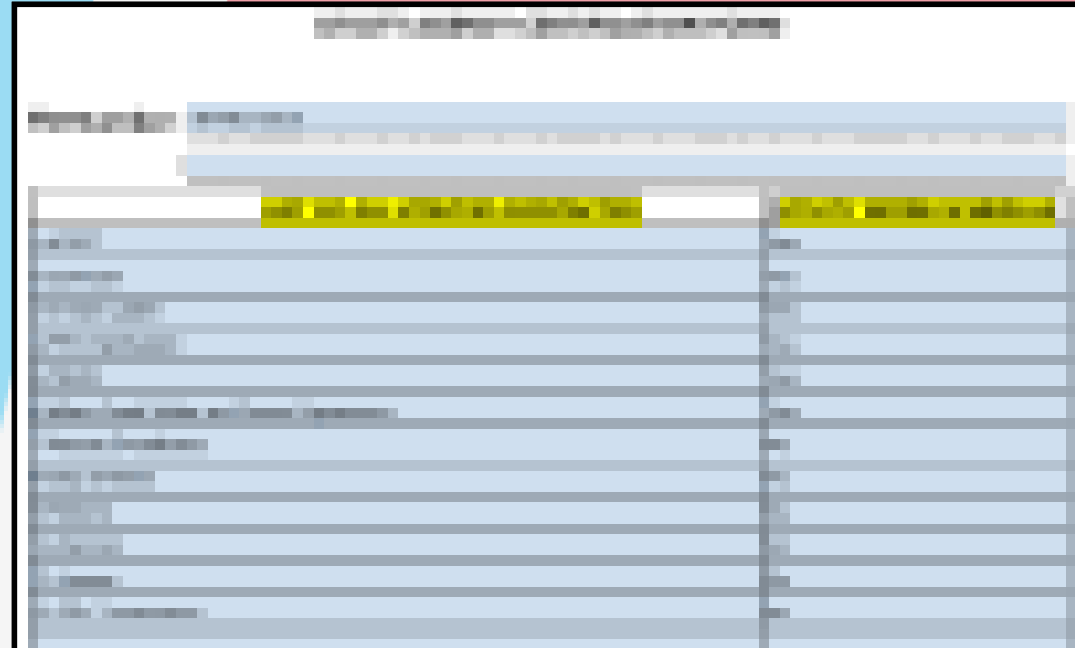
Subject: Project Description: SR 972/SW 13th Street/SW 3<sup>rd</sup> Avenue/Coral Way @ SW 15<sup>th</sup> Road  
F.P. Number: 444450-1-52-01  
F.A.P. Number: N/A  
State Road Number: 972  
County: Miami-Dade

This is to certify that, for this project, all utility work has been completed or that all necessary arrangements have been made for it to be undertaken and completed as required for proper coordination with the physical construction schedule.

Appropriate notification identifying all utility relocation work together with status of/or schedule for completion for each company involved within the limits of this project has been made a part of the special provisions package.

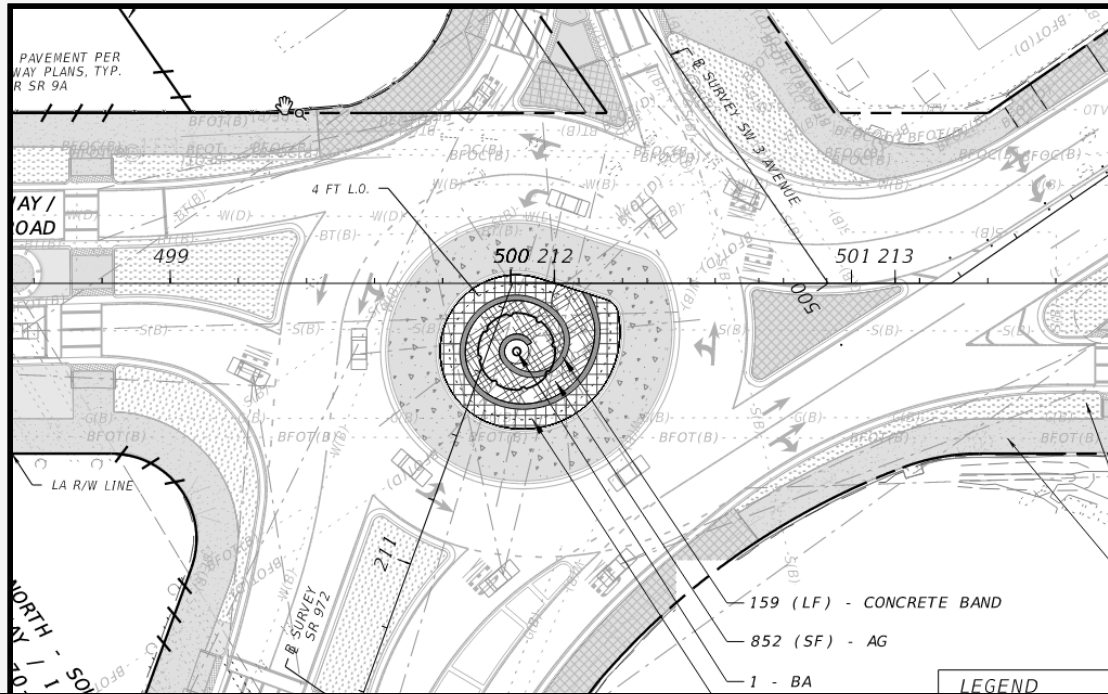
The following utility companies owning facilities within the project limits have relocation work and Utility Work Schedules and/or Utility Work Highway by Contractor Agreements are attached:

AT&T Florida  
Comcast  
Crown Castle  
FPL Distribution  
TECO  
Miami Dade Water and Sewer Department



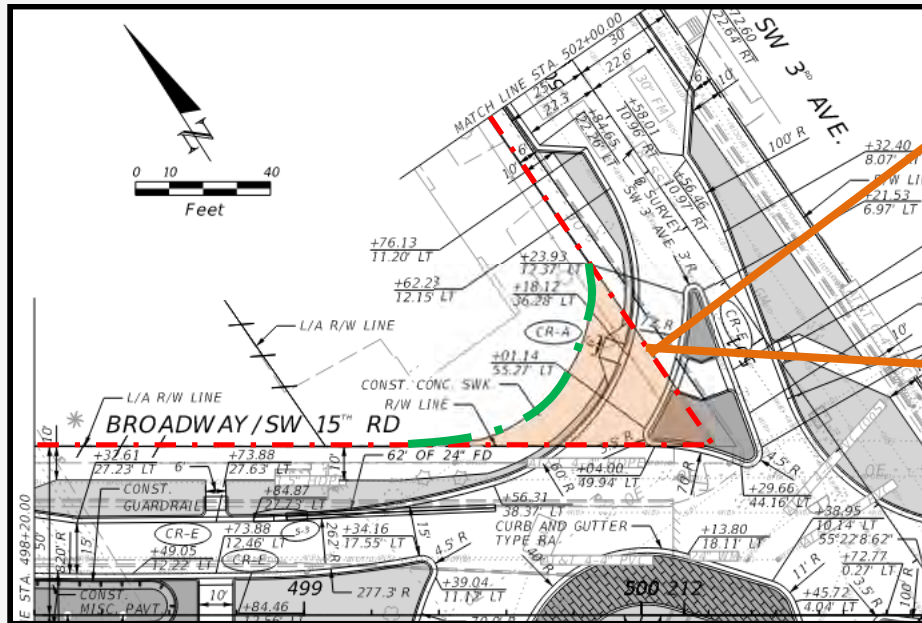
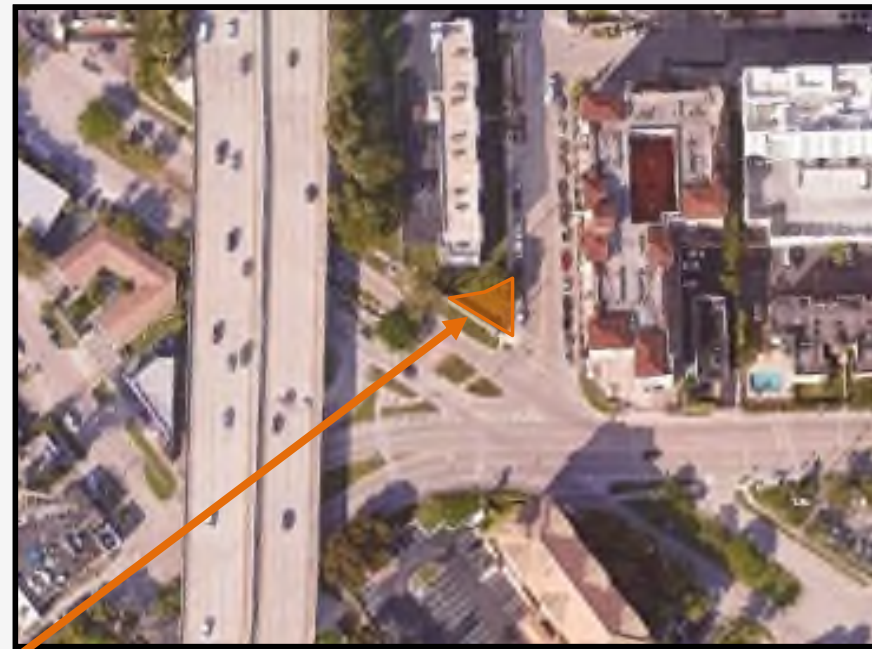
The table is redacted with a light blue grid pattern. Two rows are highlighted in yellow. The text within the table is illegible due to the redaction.

# DESIGN – LANDSCAPE



# DESIGN – RW NEEDS

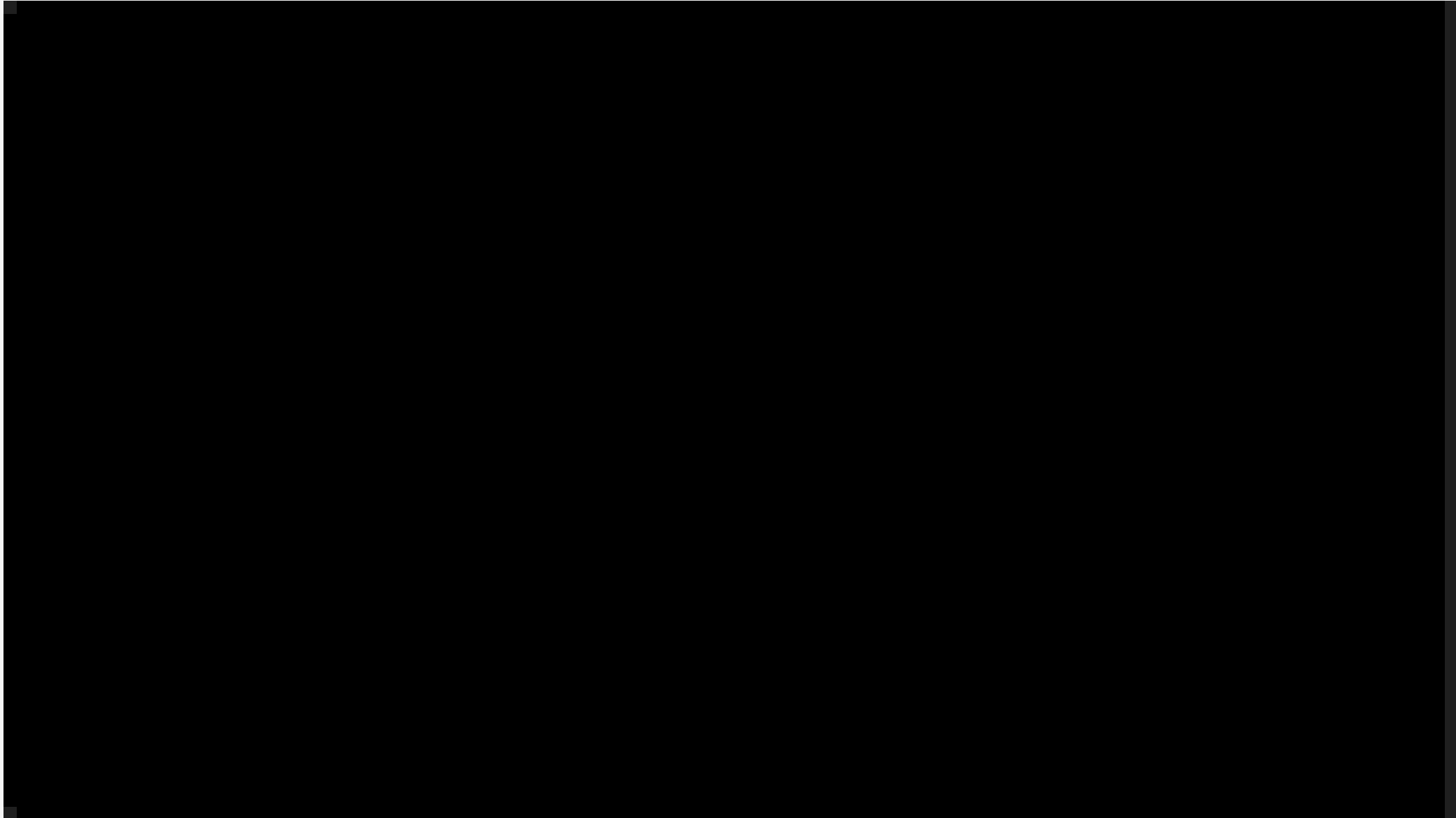
- One Fee Simple Parcel
- Two License Agreements
- Off-System Agreement



# DESIGN – 3D DESIGN

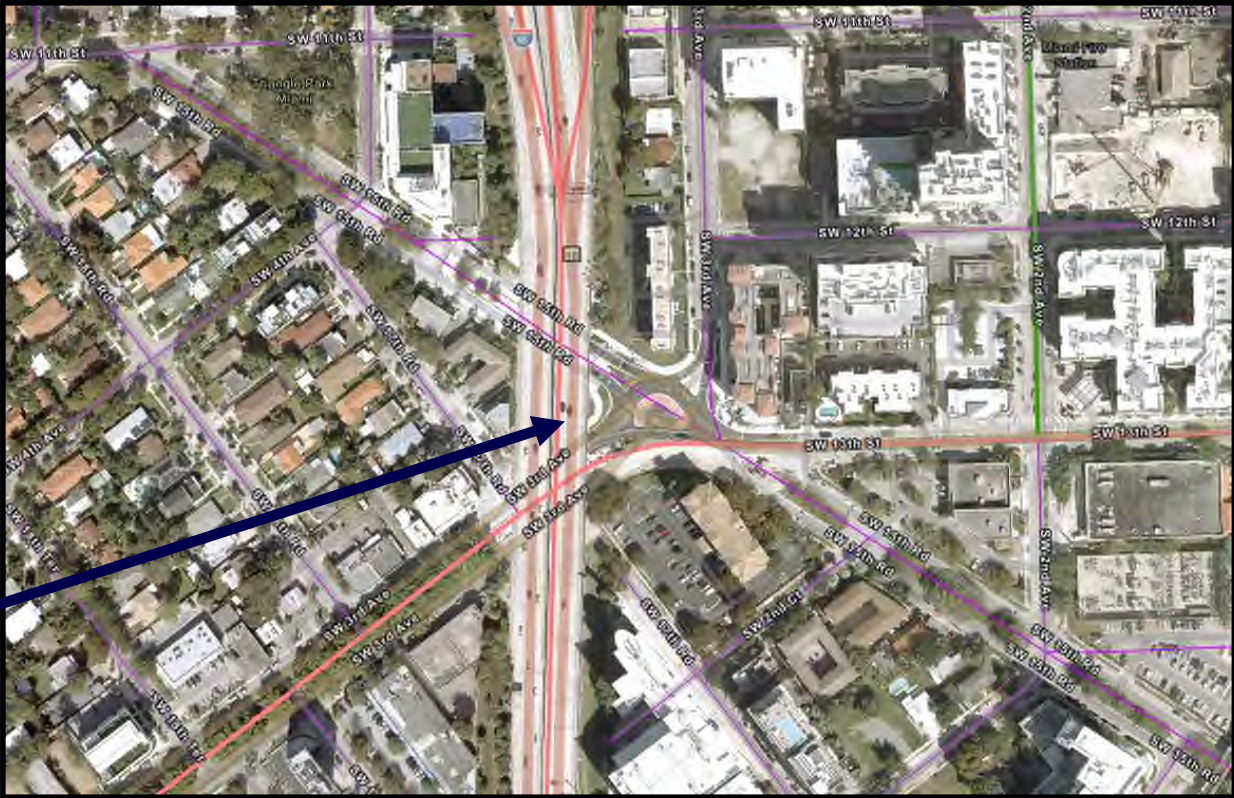


# DESIGN – 3D DESIGN



# DESIGN – COORDINATION

- **Agencies**
  - **Miami-Dade County**
  - **City of Miami**
    - **Miami Parking Authority**
  - **South Florida Water Management District**






# DESIGN – COORDINATION

- Agencies

- Miami-Dade County
- City of Miami
  - Miami Parking Authority
- South Florida Water Management District



**South Florida Water Management District**  
 Environmental Resource General Permit No. 13-104674-P  
 Date Issued: March 5, 2021

Permittee: The Florida Dept Of Transportation  
 13355 W 111th Avenue  
 #211  
 FL 33172

/SW 13 St/Coral Way at SW 15 Rd, Safety Improvements  
 Dade County, See Exhibit 1  
 15-5304

Florida Department of Transportation, District 6 (FDOT) is proposing roadway improvements to address operational deficiencies related to traffic safety, turning movements and enhanced pedestrian safety (sidewalks, signals and crossings). The proposed roadway and operational improvements will be addressed by constructing a roundabout. The proposed drainage improvements include regrading the roadway and updating the curb and gutter to direct runoff to inlets and existing swales as retrofitted cross slopes to eliminate localized ponding.

**15-5304, F.A.C.:** General Permit to the Florida Department of Transportation, District 6, and Municipalities for Minor Activities within Existing Rights-of-Way or Intersecting Rights-of-Way.


5, 2021

General Environmental Resource Permit has been approved. This action is taken pursuant to Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Please read this entire agency action thoroughly and understand its contents.

request for a Chapter 120, F.S., administrative hearing. Conditions for Environmental Resource General Permits. Conditions.

Under the conditions, please refer to the attached "Notice of Rights" which addresses the conditions. If you desire a public hearing or other review of the proposed agency action, you must request a public hearing or other review of the proposed agency action. If you have any questions concerning this matter, if we do not hear from you in writing within 30 days of the date of this notice, we will assume that you concur with the District's action.

Written notice has been mailed or electronically transmitted to the Permittee (and distribution list) on March 5, 2021, in accordance with Section 120.60(3), F.S. A copy of this notice is also posted on this date through a link on the home page of the District's website ([http://www.sfwmd.com](#)).



**City of Miami**  
 Legislation  
 Resolution: R-18-0442

City Hall  
 3500 Pan American Drive  
 Miami, FL 33133  
 www.miamigov.com

File Number: 4977      Final Action Date: 10/11/2018

A RESOLUTION OF THE MIAMI CITY COMMISSION SUPPORTING TRAFFIC FLOW MODIFICATIONS AT THE INTERSECTION OF SOUTHWEST 15TH ROAD, SOUTHWEST 3RD AVENUE, AND SOUTHWEST 13TH STREET, MIAMI, FLORIDA, WHICH INCLUDES THE INSTALLATION OF A ROUNDABOUT AT SAID INTERSECTION, DIRECTING THE CITY MANAGER TO INSTRUCT THE DIRECTOR OF CAPITAL IMPROVEMENTS PROGRAM TO TRANSMIT A COPY OF THIS RESOLUTION TO THE MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT, THE FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT SIX SECRETARY, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION SECRETARY TO CONSIDER APPROVAL OF THE PROPOSED TRAFFIC FLOW MODIFICATIONS.

**SPONSOR(S): Commissioner Joe Carollo**

WHEREAS, at the request of area residents, the City of Miami ("City") requested that the Florida Department of Transportation ("FDOT") conduct a traffic study to evaluate placing a roundabout at the intersection of Southwest 15th Road, Southwest 3rd Avenue, and Southwest 13th Street, Miami, Florida ("Intersection"); and

WHEREAS, FDOT has conducted the study and engaged in public outreach to the public near the Intersection; and

WHEREAS, such traffic flow modification would increase throughput, reduce congestion, and increase safety at the Intersection;

NOW, THEREFORE, BE IT RESOLVED BY THE COMMISSION OF THE CITY OF MIAMI, FLORIDA:

Section 1. The recitals and findings contained in the Preamble to this Resolution are adopted by reference and incorporated as if fully set forth in this Section.


Section 2. The City Commission supports traffic flow modifications at the Intersection, which includes the installation of a roundabout at the Intersection.

Section 3. The City Manager is directed to transmit a copy of this Resolution to Miami-Dade County's Public Works and Waste Management Department, the FDOT District 6 Secretary, and the FDOT Secretary to consider the approval of the proposed traffic flow modifications at the Intersection.

Section 4. This Resolution shall become effective immediately upon its adoption and signature of the Mayor.<sup>1</sup>

<sup>1</sup> If the Mayor does not sign this Resolution, it shall become effective at the end of ten (10) calendar days from the date it was passed and adopted. If the Mayor vetoes this Resolution, it shall become effective immediately upon override of the veto by the City Commission.

City of Miami      Page 1 of 2      File ID: 4977 (Revision: ) Printed On: 10/25/2018



**City of Miami**  
 Legislation  
 Resolution: R-22-0087

City Hall  
 3500 Pan American Drive  
 Miami, FL 33133  
 www.miamigov.com

Final Action Date: 3/10/2022

A RESOLUTION OF THE MIAMI CITY COMMISSION, WITH ATTACHMENT(S), DIRECTING THE CITY MANAGER TO EXECUTE AN OFF-SYSTEM CONSTRUCTION AND MAINTENANCE AGREEMENT, IN SUBSTANTIALLY FINAL FORM, WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ("FDOT"), FOR IMPROVEMENTS ON STATE ROAD 13355 FROM SOUTH OF INTERSTATE 95 (I-95) TO EAST OF SOUTHWEST MIAMI, FLORIDA, FOR THE IMPROVEMENTS ON THE EXISTING INTERSECTION TO PROVIDE A ROUNDABOUT INCLUDING IMPROVEMENTS ON ROADS NOT ON THE STATE HIGHWAY SYSTEM.

The Florida Department of Transportation ("FDOT") has developed design for a roundabout ("FM") Project No. FM 444450-1-52-01 for State Road ("SR") 13355 from Interstate 95 ("I-95") to east of Southwest 3rd Avenue for the intersection to provide a roundabout, replacement of signals, additional drainage, pier protection, and landscaping ("Project"); and

The City of Miami ("City") intends to undertake and complete the Project, a portion of which is on the State Highway System but City of Miami ("City") right-of-way, including Southwest 12th Street from Southwest 12th Street to Southwest 13th Street and Southwest 13th Street from Southwest 13th Street to Southwest 15th Street.

The Project includes roadway reconstruction, sidewalk, curb, utility structures, guardrail, driveways, pier protection, pedestrian ramps, pavement structures, landscaping, and lighting ("Local Roadway Improvements") associated with, or arising out of the construction of the Local Roadway Improvements.

The City of Miami ("City") agrees with the terms and conditions in the Agreement, in substantially final form, with the State of Florida Department of Transportation ("FDOT"), as Exhibit "A", establishes the terms, conditions, and responsibilities to complete the Project and Local Roadway Improvements on the City of Miami ("City") right-of-way.

BE IT RESOLVED BY THE COMMISSION OF THE CITY OF MIAMI, FLORIDA:

The recitals and findings contained in the Preamble to this Resolution are adopted by reference and incorporated as if fully set forth in this Section.

City of Miami      Page 1 of 2      File ID: 11376 (Revision: ) Printed On: 3/14/2022



# DESIGN – COORDINATION

- **Stakeholder engagement**
  - Elected Officials
  - Residents
  - Businesses
  - Homeowner Associations



**FDOT** Florida Department of  
**TRANSPORTATION**

SR 972/SW 13 Street/SW 3 Avenue/Coral Way  
And SW 15 Road  
FIN 444450-1-5201

**CONTACT**  
Community Outreach Specialist  
Rodolfo Roman

 786-519-7160

 [Roman@iscprgroup.com](mailto:Roman@iscprgroup.com)

 [www.fdotmiamidade.com](http://www.fdotmiamidade.com)

Download tonight's presentation at:  
<http://www.fdotmiamidade.com/design-projects/south-miami-dade/sr-972sw-13-stsw-3-avecoral-way-and-sw-15-rd-roundabout.html>

Please take our exit survey!



# CONSTRUCTION PHASE

- Project Limits: SR 972/SW 13 Street/SW 3 Avenue/Coral Way @ SW 15 Road
- Project Location: City of Miami
- Project Schedule: October 2022 to May 2023
- Project budget Estimated: \$2.7 Million after completion \$2.7 Million
- Project Incentive: \$180,000.00 (\$6,000.00/day – 30 days max.)
- Project Original duration: 250 days / Current duration: 220 days
- Project Team: Resident Engineer, Assistant Resident Engineer, Construction PM, Project Administrator and two Senior Roadway Inspectors

# CONSTRUCTION PROJECT ADMINISTRATION MANUAL

Document updated frequently, check website for most recent version



Florida Department of Transportation  
State Construction Office

February 23, 2022

PREPARED BY: Yolanda Cisneros, Vivian Lomas P.E., Alamy Curfelo P.E.



SPECIFICATIONS PACKAGE  
Contract Number: 834247  
FINANCIAL PROJECT ID: 444450-1-32-01

DISTRICT SITE  
MIAMI-DADE COUNTY

The January 2022 Edition of the Florida Department of Transportation Standard Specifications is revised as follows:

I hereby certify that this specifications package has been properly prepared by me, or under my supervision, in accordance with procedures adopted by the Florida Department of Transportation.

This form has been digitally signed and sealed by Alamy Curfelo P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Date: \_\_\_\_\_  
State of Florida: \_\_\_\_\_  
Professional Engineer, License No.: \_\_\_\_\_  
Firm Agency Name: \_\_\_\_\_  
Firm Agency Address: \_\_\_\_\_  
City, State, Zip Code: \_\_\_\_\_  
Pages: \_\_\_\_\_



Alamy Curfelo  
2022.02.16 11:07:01 -0500

FPID(S):444450-1-32-01

Rule 14-46.001 F.A.C.  
Effective July 30, 2017

## 2017 Utility Accommodation Manual



# CONSTRUCTION CONTRACT DOCUMENTS

- FY 2021-22 Standard Plans for Road and Bridge Construction
- 2017 Utility Accommodation Manual
- January 2022 Standard Specifications for Road and Bridge Construction
- Contract documents: Specifications package and contract plans



## FY 2021-22 STANDARD PLANS FOR ROAD CONSTRUCTION

Effective for Projects with Lettings in the Fiscal Year (FY) from July 1, 2021 through June 30, 2022

State of Florida Department of Transportation  
Office of Design  
Mail Station 32  
605 Suwannee Street  
Tallahassee, Florida 32399-0450

CONTRACT PLANS COMPONENTS

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS  
FINANCIAL PROJECT ID: 444450-1-32-01  
MIAMI-DADE COUNTY (8054000)

STATE ROAD NO. 972  
SR 1234 SR 5678 AND ADDITIONAL SR'S IN SR 1234 RD

INDEX OF ROADWAY PLANS

GOVERNING STANDARD PLANS

ROADWAY PLANS

ADDITIONS

KEY SHEET INFORMATION



# CONSTRUCTION PHASE

- ▶ Notice to proceed
- ▶ Relocation of utilities prior to construction
- ▶ Design Kick-off meeting
- ▶ Preconstruction conference
- ▶ Pre-signalization meeting
- ▶ Pre-streetlight meeting
- ▶ Pre-paving meeting
- ▶ Shop drawing submittals
- ▶ Off-system agreement permit requirements



# CONSTRUCTION PROCESS

- Active/completed as-built permits
- Prior to construction utility relocations
- Verification of maintaining agency as-built records (GIS)
- Travel times
- Streetlight, traffic signal and signs inventory within the project limits

The top part of the image shows a grid of traffic signal data with columns for location, permit type, and other details. The bottom part shows a technical drawing of a signal intersection, including lane markings, signs, and utility locations.

## Miami-Dade County Traffic Signal Documents



Travel Time Analysis Contract: E6N47  
Date: 9/15/22

Coral Way / SR 972 / SW 3 ave / SW 13 st from SW 19 rd to S Miami Ave.

	9:00 am	10:00 am	11:00am	12:00pm	1:00pm	2:00pm	3:00pm
EB	2:33 min.	2:12 min.	2:22 min	2:02 min.	2:47 min.	3:00min	3:02 min.
WB	2:05 min.	2:50 min.	3:00 min	2:00 min.	2:12 min.	2:30 min.	3:20 min

Broadway / SW 15 rd from SW 11 st to SW 2 ave

	9:00 am	10:00 am	11:00am	12:00pm	1:00pm	2:00pm	3:00pm
SB	2:10 min.	2:10 min.	2:08 min.	2:12 min.	2:10 min.	2:17 min.	2:13 min.
NB	Broadway / SW 15 rd does not cross over Coral Way NB						

# SCOPE OF WORK

- Reconstructing the existing intersection into a roundabout
- Installing high-emphasis crosswalks
- Installing new drainage structures
- Removing on-street parking along SW 3 Avenue north of SW 15 Road

- Removing/replacing existing light poles and/or installing new light poles with Light Emitting Diode (LED) lights
- Installing new pedestrian and vehicular signals, signage, and pavement markings
- Enhancing landscape
- Repaving and restriping the roadway



# UTILITY RELOCATIONS PRIOR TO CONSTRUCTION

## Executed Utility Work Schedule:

- Crown Castle Fiber LLC.
- Teco Peoples Gas.
- BellSouth Telecommunications, LLC.
- Comcast

Pub 1446(2017) F.A.C. Page 1 of 3

FLORIDA DEPARTMENT OF TRANSPORTATION  
**UTILITY WORK SCHEDULE** December 14, 2018

Pursuant to Section 337.403 F.S., the UAO and FDOT agree to the UAO's need for relocation or adjustment to its utilities and FDOT's need for a schedule for the UAO to effect the relocation or adjustment. This utility work schedule is based on FDOT plans dated in the project information box below. Any deviation by FDOT or its contractor from these plans, may void this utility work schedule. Upon notification by FDOT of a change to these plans, the UAO may negotiate a new utility work schedule. The UAO agrees to notify FDOT and the contractor in writing prior to starting, stopping, resuming, and completing work in accordance with this utility work schedule. The UAO shall obtain a utility permit and comply with requirements of the 2017 Utility Accommodation Manual (UAM) for all work done under this utility work schedule. The UAO is not responsible for events beyond the control of the UAO that could not be reasonably anticipated by the UAO and which could not be avoided by the UAO with exercise of due diligence at the time of the occurrence.

**FDOT PROJECT INFORMATION**

Financial Project ID: 444456-1-52-01 Federal Project ID: N/A  
 State Road Number: 972 County: Miami-Dade  
 FDOT Plans Date: 4/21/2021 District Worksheet No.: N/A

**UTILITY AGENCY/OWNER (UAO)**

Utility Company: Crown Castle Fiber LLC  
 UAO Project Rep: William Mann Phone: 863-585-2312 E-mail: william.mann@crowncastle.com  
 UAO Field Rep: Phone: E-mail:

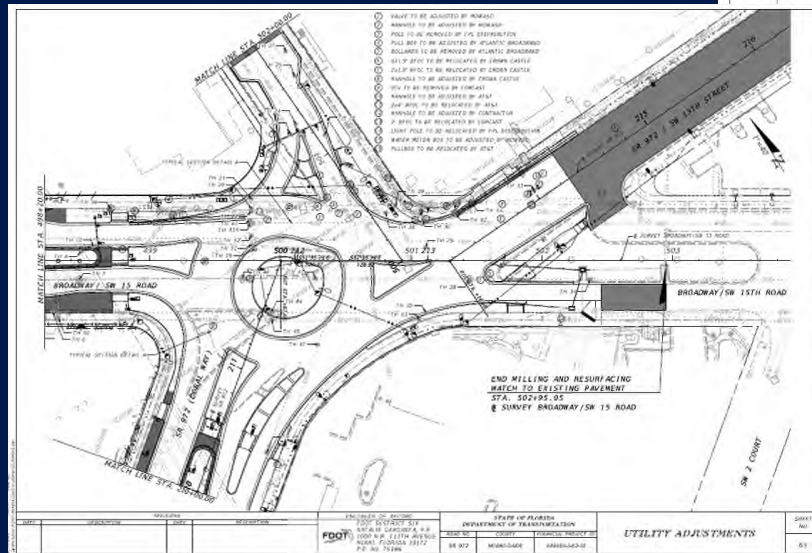
**UTILITY SIGNATURE**

UAO Representative Signature: \_\_\_\_\_ Date: 1/16/2022  
 FDOT Representative Signature: \_\_\_\_\_ Date: 1/14/2022

Financial Project ID: 444456-1-52-01  
 Utility Company: Crown Castle Fiber LLC  
 FDOT Plans Date: 4/21/2021

**SECTION C: UAO'S WORK ACTIVITIES**

Act. No.	Utility Facility (type, size, material, status)	From Station/Off set	To Station/Off set	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
1				Engineering Design	FDOT UWS Certification	NA	30	0
2				Permit Submittal	Permit Approval	NA	90	0
3				Cut Over	NA	NA	60	0
	g Hand Hole	213+38, 30' LT, BL SW 13 <sup>th</sup> St	213+38, 30' LT, BL SW 13 <sup>th</sup> St	Adjust hand hole to new grade due to sidewalk construction	NA	NA	0	3
	conduit & cable	213+40, 25' LT, BL SW 13 <sup>th</sup> St	213+55, 22' LT, BL SW 13 <sup>th</sup> St	Relocate conduit & cable due to conflict with French Drain S-8	NA	NA	20	0
	conduit & cable	498+70, 38' LT, BL SW 15 <sup>th</sup> Rd	498+70, 38' LT, BL SW 15 <sup>th</sup> Rd	Relocate conduit & cable prior to construction due to conflict with ped pole	NA	NA	5	0
	g Hand Hole	498+90, 35' LT, BL SW 15 <sup>th</sup> Rd	498+90, 35' LT, BL SW 15 <sup>th</sup> Rd	Adjust hand hole to new grade due to sidewalk construction	NA	NA	0	3
	conduit & cable	499+60, 37' LT, BL SW 15 <sup>th</sup> Rd	500+60, 38' LT, BL SW 15 <sup>th</sup> Rd	Relocate conduit & cable prior to const. due to conflict with stabilization	NA	NA	10	0
	conduit & cable	213+40, 25' LT BL SW 13th St	213+40, 25' LT BL SW 13th St	Relocate conduit & cable due to conflict with French Drain S-8	NA	NA	5	0



**ENGINEER OF RECORD SIGNATURE**

\_\_\_\_\_  
 1/14/2022

**PROVAL BY DISTRICT UTILITIES**

\_\_\_\_\_  
 1/14/2022

**SECTION A: SUMMARY OF UTILITY WORK**

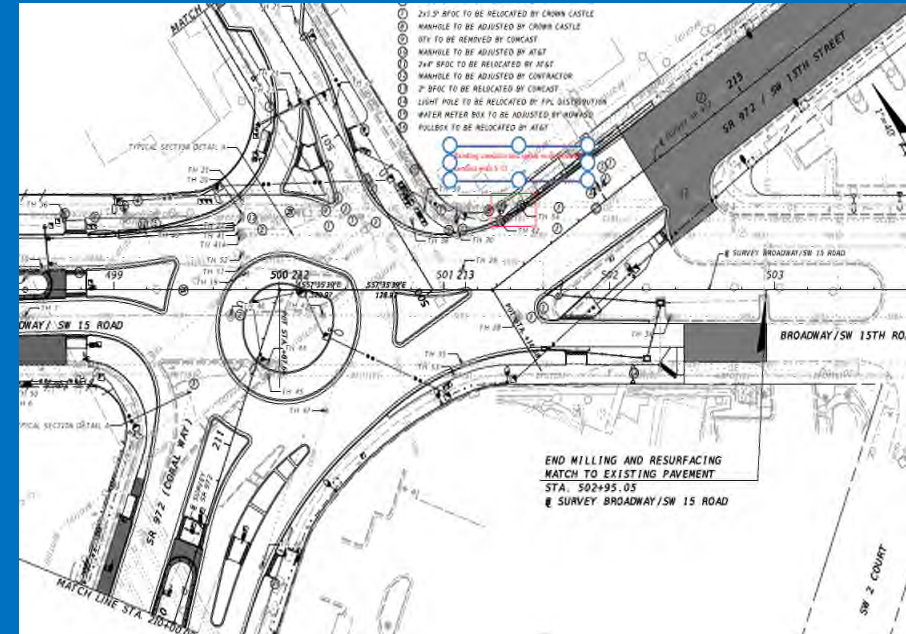
This utility work schedule. The breakdown of how these days are to be incorporated into the FDOT project and the dependencies in Section C.

ring FDOT project construction: 6.

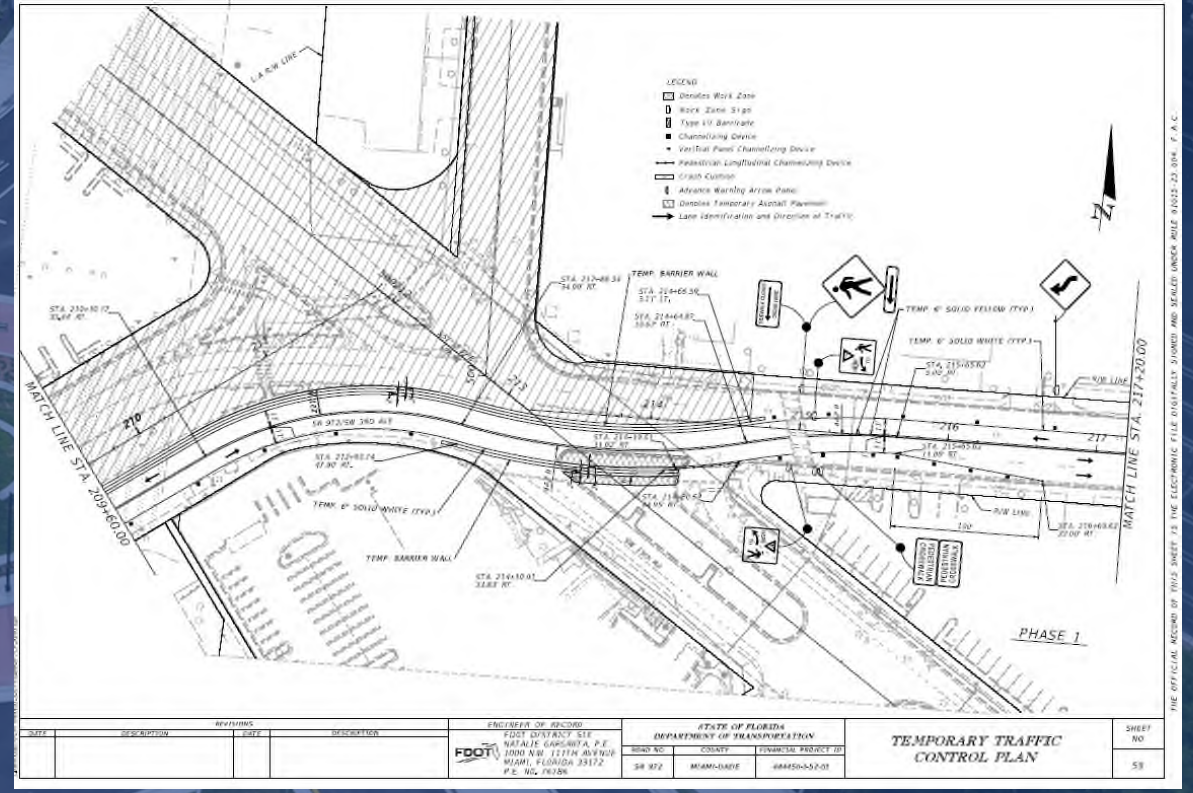
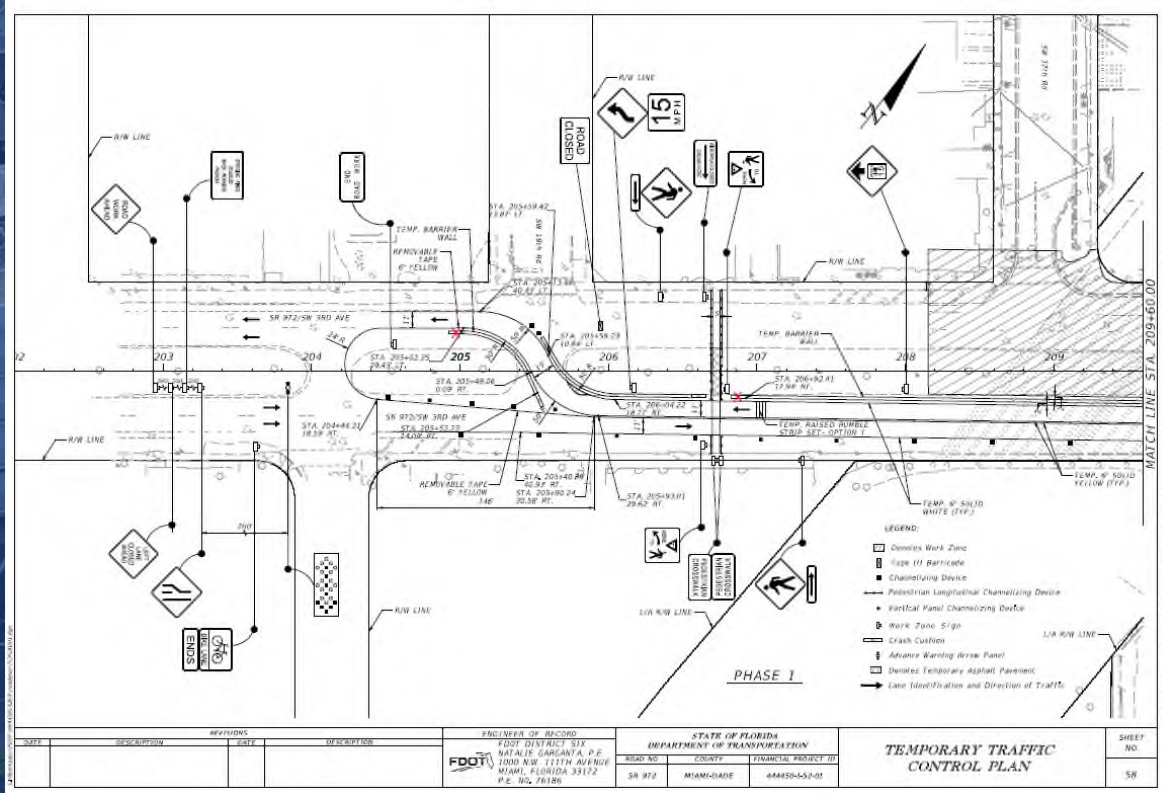




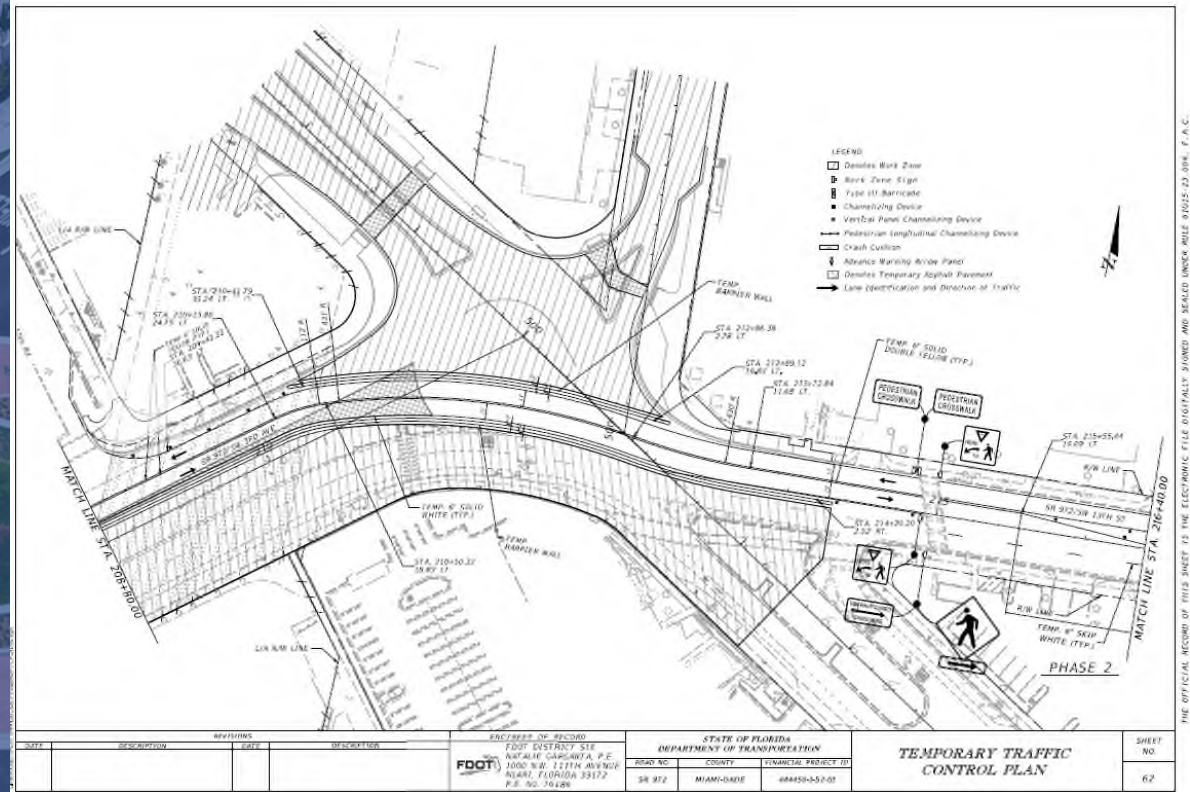
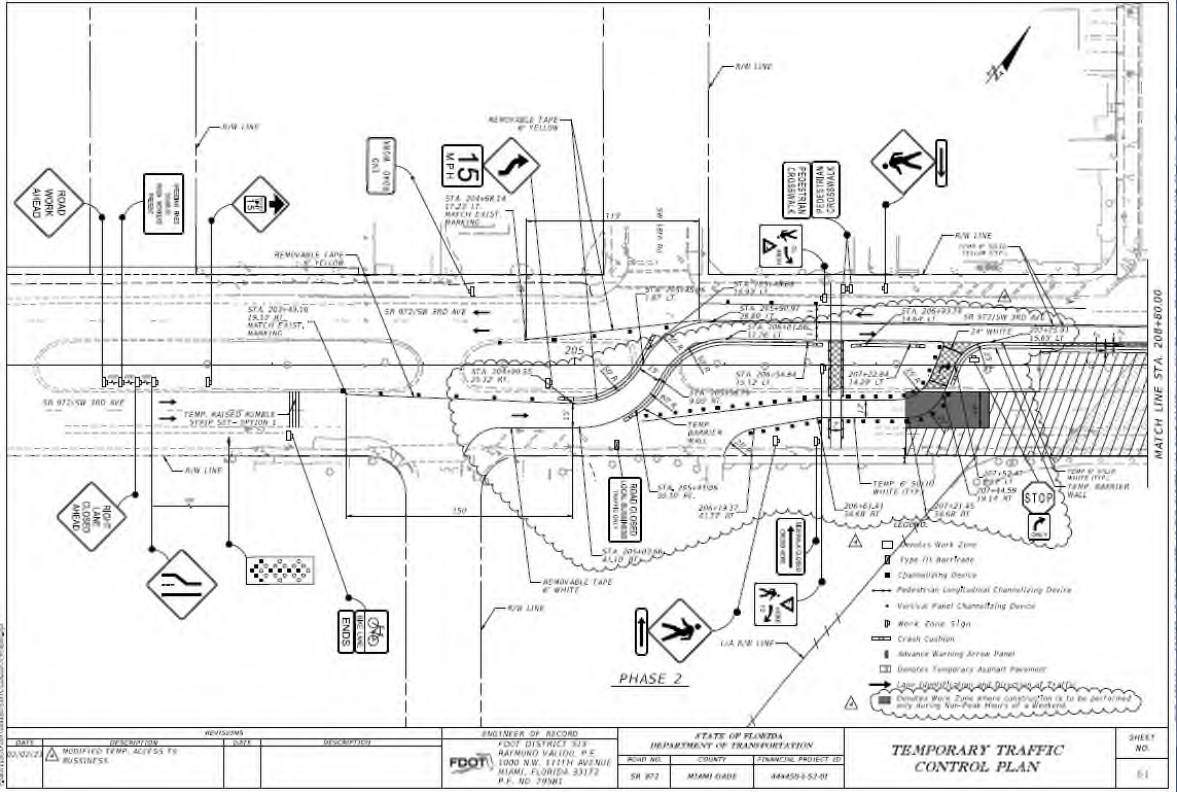
# UTILITY RELOCATIONS PRIOR TO CONSTRUCTION



# MAINTENANCE OF TRAFFIC/PHASE I

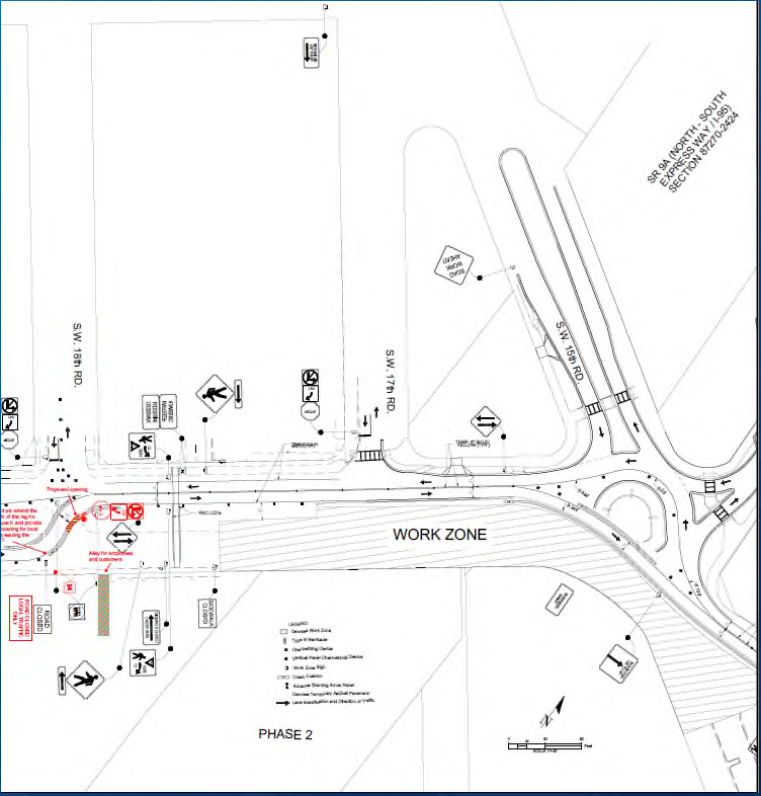
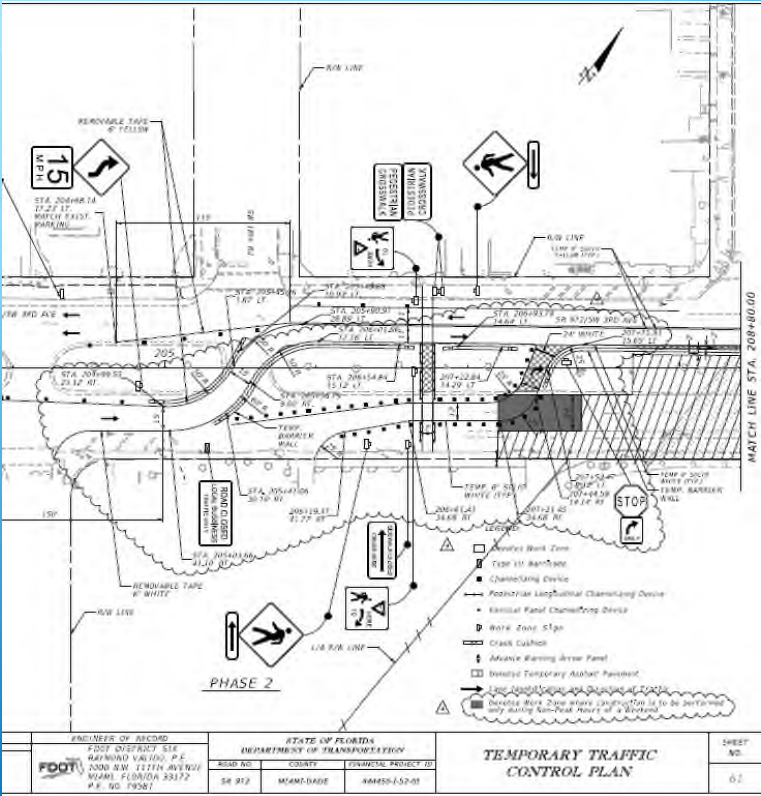


# MAINTENANCE OF TRAFFIC/PHASE II



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DISTASTLY STAMPED AND SEALED UNDER RULE 100S-23.004, F.A.C.

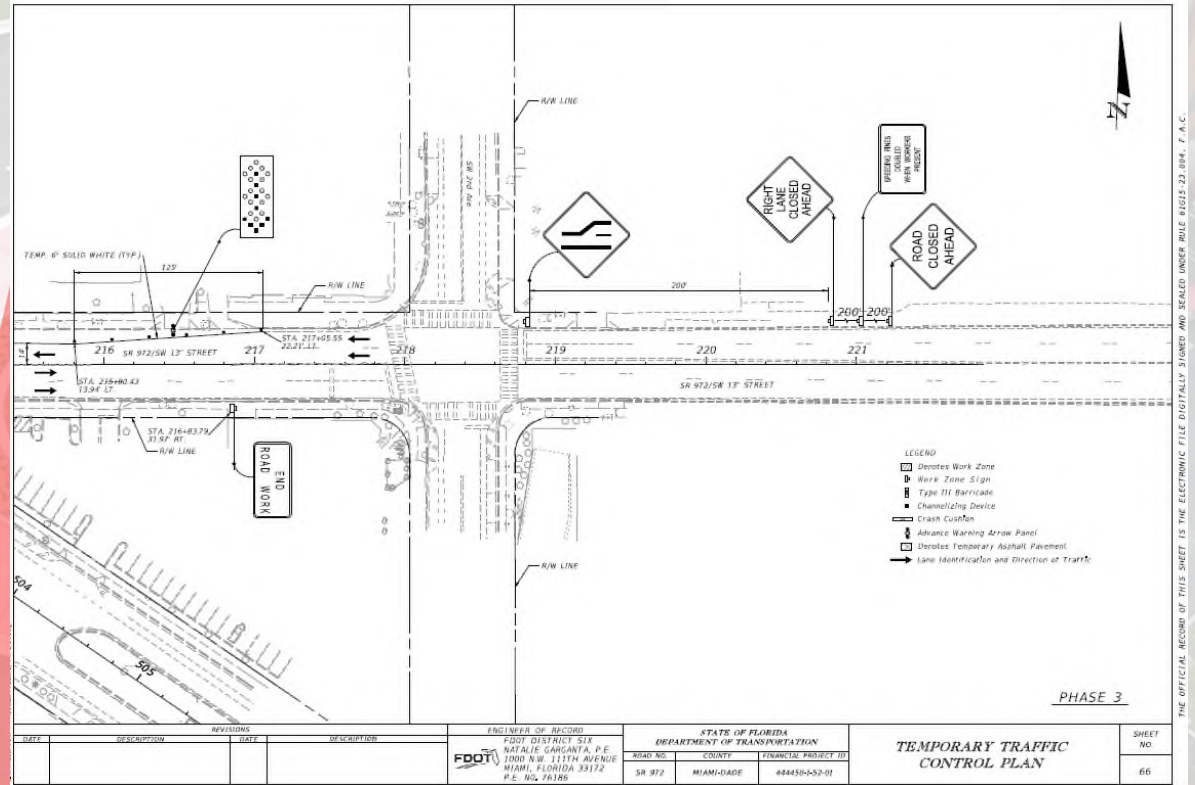
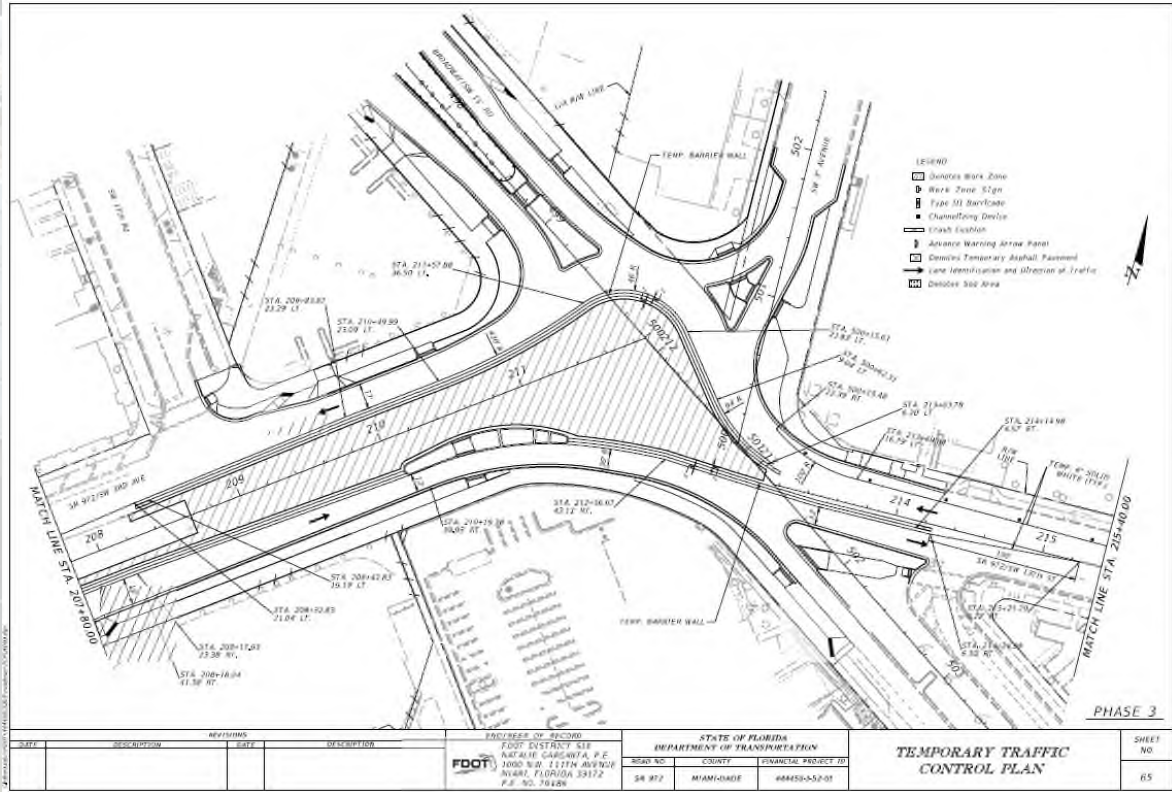
# PROPOSED MAINTENANCE OF TRAFFIC/PHASE II



# MAINTENANCE OF TRAFFIC/PHASE II



# MAINTENANCE OF TRAFFIC/PHASE III



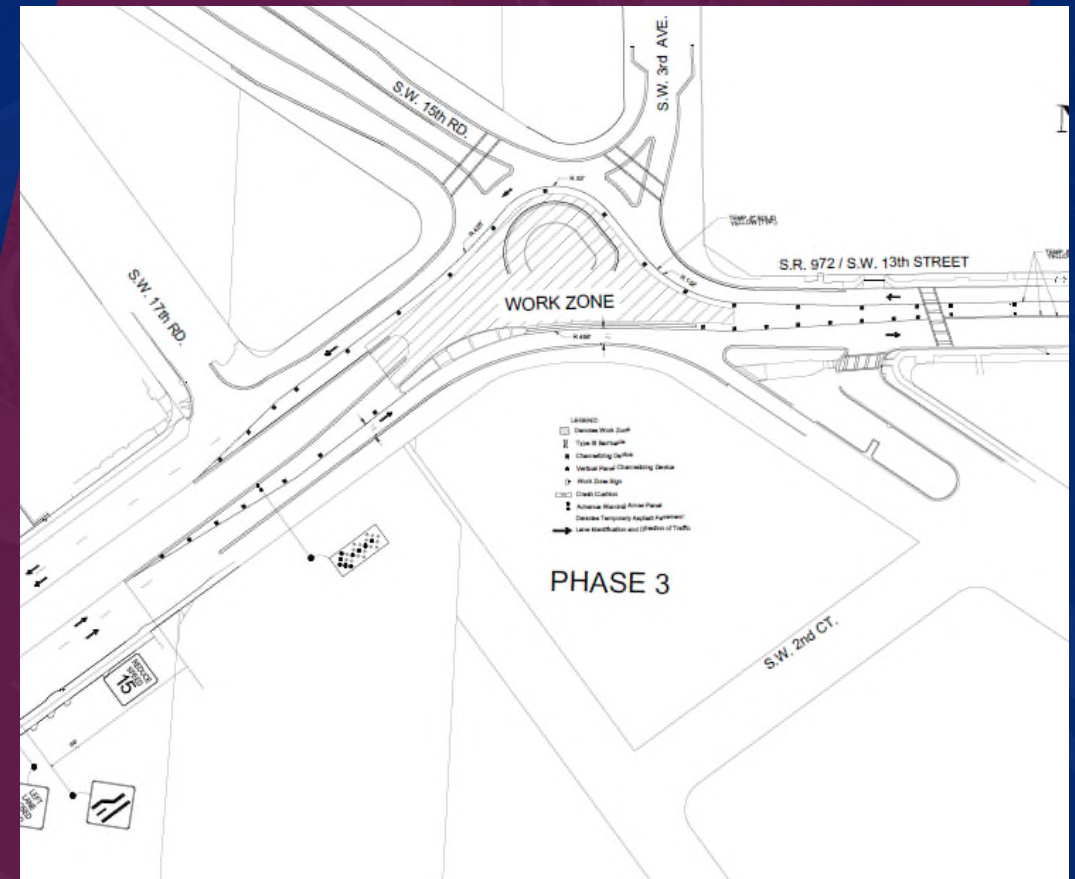
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SCALED UNDER RULE 61B05.20 B047, F.A.C.



# PROPOSED MAINTENANCE OF TRAFFIC/PHASE III



- LEGEND
- Denotes Work Zone
  - ▨ Type II Barrier
  - ▧ Channeling Device
  - ▩ Advance Warning
  - Demarcation
  - ▬ Lane Lines
  - ▭ Demarcation



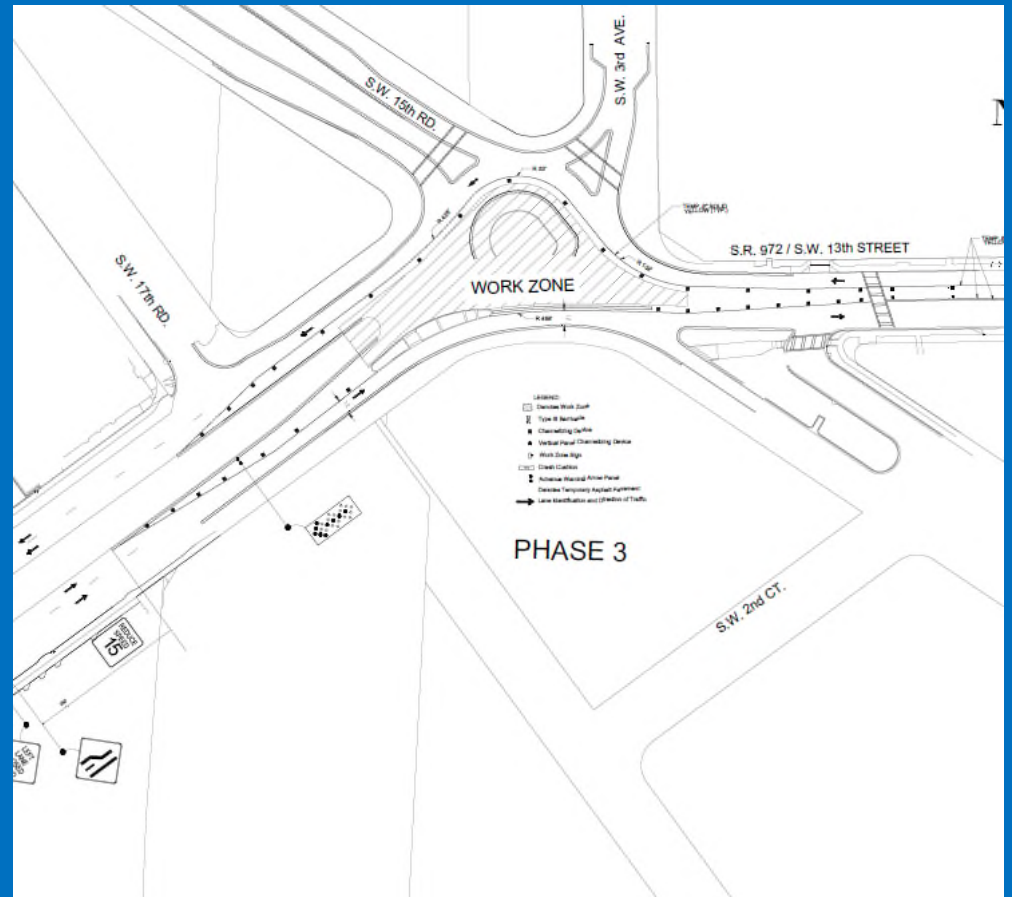
- LEGEND
- Denotes Work Zone
  - ▨ Type II Barrier
  - ▧ Channeling Device
  - ▩ Advance Warning
  - Demarcation
  - ▬ Lane Lines
  - ▭ Demarcation

REVISIONS	DESCRIPTION	DATE	DESCRIPTION

ENCLOSURE OF RECORD		STATE OF FLORIDA	
FDOT DISTRICT SIX		DEPARTMENT OF TRANSPORTATION	
NATALIE GARGANTA, P.E.		COUNTY	
1000 N.W. 121TH AVENUE		MIAMI-DADE	
MIAMI, FLORIDA 33172		FINANCIAL PROJECT III	
P.E. NO. 76126		SR 972	
		MIAMI-DADE	
		44450-LS2-01	

TEMPORARY CONTROL

# PROPOSED MAINTENANCE OF TRAFFIC/PHASE III





# CHALLENGES

## North West Elevation

☉ 121°SE (T) LAT: 25.761874 LON: -80.199297 ±19ft ▲ 16ft



## South East Elevation

☉ 305°NW (T) LAT: 25.761819 LON: -80.199293 ±9ft ▲ 32ft

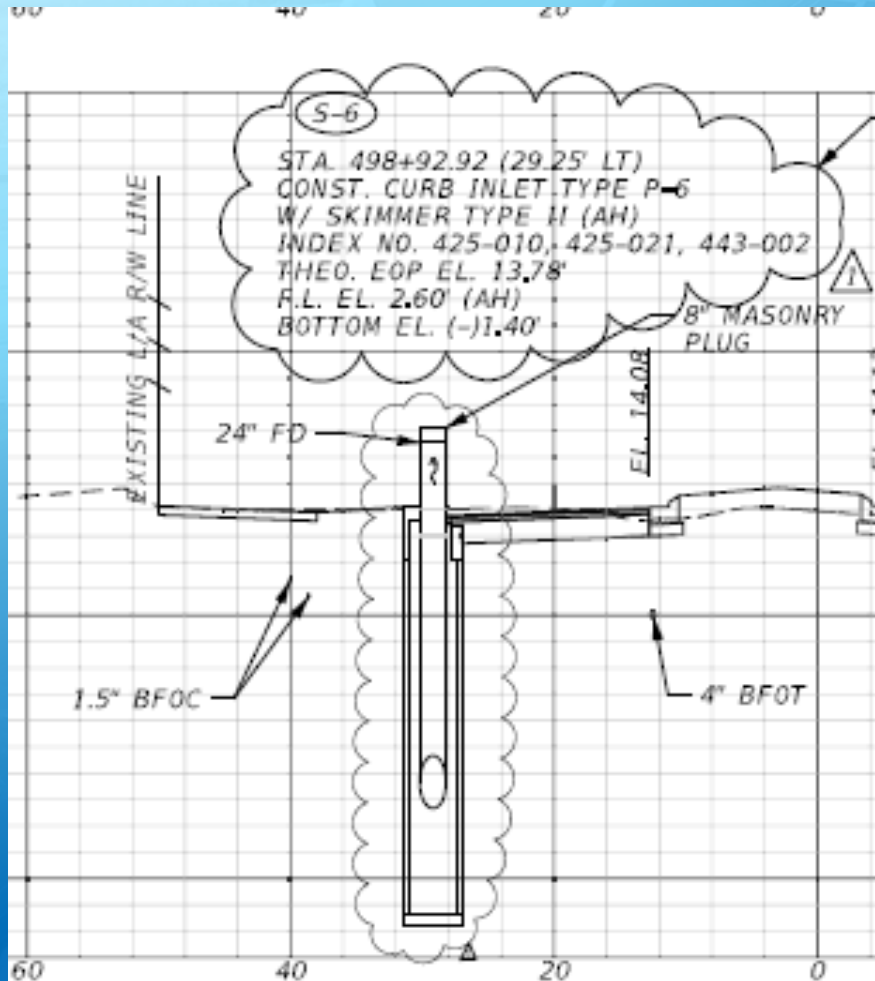


## South Elevation

☉ 342°N (T) LAT: 25.761841 LON: -80.200156 ±114ft ▲ 17ft



# CHALLENGES

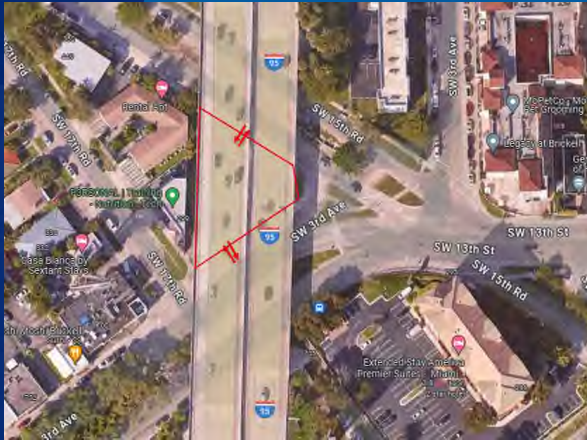


BOTTOM OF TRENCH EL. (FT-NAVD)
(-110.17)
(-106.22)
(-105.10)

BOTTOM OF TRENCH EL. (FT-NAVD)
(-110.17)
(-110.10)
(-105.10)



# CHALLENGES





**THANK YOU**

**END OF SLIDE**

Why is our Vision Zero?



**There's No One Someone Won't Miss!**

We must all work together to eliminate traffic fatalities.