



RRR Scoping Report

FM# 449738-1



SR 5 / US 1 / Overseas Highway

From West of Venetian Boulevard to North of Executive Bay Club

(90060000 MP 11.939-13.417)

Monroe County, Florida



Appendices



Prepared for
Florida Department of Transportation District 6
Planning and Environmental Management Office
1000 NW 111th Avenue
Miami, Florida 33172

FDOT Project Manager: Md S Hossain, MS, PE
Contract C-354, Task Work Order 28
FPID: 449738-1-52-01

List of Appendices

- A. Project Correspondence**
 - A-1. Coordination
- B. Environmental Resources Desktop Analysis**
- C. Corridor Files**
 - C-1. Straight Line Diagram
 - C-2. Project Data Sheet and Pavement Forecast
 - C-3. Utility Owners List
- D. Pavement Design Documents**
 - D-1. 18-kip ESAL Report
 - D-2. Ground Penetration Radar (GPR)
 - D-3. Resilient Modulus (MR)
- E. Plans from Previous and Programmed Projects**
 - E-1. FPID 405582-8-52-01
 - E-2. FPID 414649-1-52-01
 - E-3. FPID 444920-1-52-01
 - E-4. FPID 447810-1-52-01
- F. Florida Keys Overseas Highways Trail (FKOHT) Memorandum**
- G. Long Range Estimates (LRE)**
- H. Context Class and Target Speed Memo**
- I. Safety Report**

A. Project Correspondence

A-1. Coordination

Godfrey Lamptey

From: Danu, Nicholas <Nicholas.Danu@dot.state.fl.us>
Sent: Thursday, June 16, 2022 9:38 AM
To: Godfrey Lamptey
Subject: Re: FM#449738-1 US 1 Plantation Key

Great, thanks.

From: Godfrey Lamptey <godfrey.lamptey@goalassociates.com>
Sent: Thursday, June 16, 2022 9:36 AM
To: Danu, Nicholas <Nicholas.Danu@dot.state.fl.us>
Subject: RE: FM#449738-1 US 1 Plantation Key

EXTERNAL SENDER: Use caution with links and attachments.

Good morning Nick

This segment is currently programmed to be completed in June 2023. As such we prioritized the other Scoping Reports. The field work has been completed and anticipate to get it done in August.

Thanks



Godfrey Lamptey, P.E., PTOE • *Principal*

o. 786-600-3350 x 101 | **c.** 786-543-2037

a. 14750 NW 77th Court, Suite 320, Miami Lakes, FL 33016

e. godfrey.lamptey@goalassociates.com | **w.** goalassociates.com

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From: Danu, Nicholas <Nicholas.Danu@dot.state.fl.us>
Sent: Thursday, June 16, 2022 8:21 AM
To: Godfrey Lamptey <godfrey.lamptey@goalassociates.com>
Subject: Re: FM#449738-1 US 1 Plantation Key

Godfrey,
I need to get an update on this project for tomorrow's Work Program meeting.

Thanks,

Nicholas Danu, PE
Project Development Manager

Planning and Environmental Management Office

Florida Department of Transportation - District 6

Adam Leigh Cann Building

1000 NW 111th Avenue, Room 6111

Miami, Florida 33172

Phone: (305) 470-5219; Fax: (305) 470-5205

E-mail: nicholas.danu@dot.state.fl.us

From: Danu, Nicholas <Nicholas.Danu@dot.state.fl.us>

Sent: Monday, June 13, 2022 3:44 PM

To: Godfrey Lamptey <godfrey.lamptey@goalassociates.com>

Subject: FM#449738-1 US 1 Plantation Key

Godfrey,

There's a question concerning the subject RRR Scoping report. I have you listed as helping Calvin. What is the status of that? There's a Work Program meeting on Friday & it's listed for discussion.

Thanks,

Nicholas Danu, PE

Project Development Manager

Planning and Environmental Management Office

Florida Department of Transportation - District 6

Adam Leigh Cann Building

1000 NW 111th Avenue, Room 6111

Miami, Florida 33172

Phone: (305) 470-5219; Fax: (305) 470-5205

E-mail: nicholas.danu@dot.state.fl.us

B. Environmental Resources Desktop Analysis



Florida Department of Transportation

RON DESANTIS
GOVERNOR

1000 NW 111 Avenue
Miami, FL 33172-5800

JARED W. PERDUE, P.E.
SECRETARY

The environmental review, consultation and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by FDOT pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022, executed by FHWA and FDOT.

Date: April 21, 2023
To: Md Hossain, MS, E.I., Project Manager
From: Madeline Martinez, Environmental Scientist, AECOM
Copies: Craig James, District Environmental Administrator
Subject: **ENVIRONMENTAL RESOURCES DESKTOP ANALYSIS**
Project Name: SR 5/US-1/Overseas Hwy from West of Venetian Blvd to North of Executive Bay Club
Financial Management Number:
Federal Aid Project No.: TBD
Limits: SR 5/US-1/Overseas Hwy from West of Venetian Blvd to North of Executive Bay Club
County: Monroe

The Resurfacing, Restoration, and Rehabilitation (RRR) Scoping Report completed for the above referenced project, dated April 2023, recommended the following improvements along SR 5/US-1/Overseas Hwy from West of Venetian Blvd to North of Executive Bay Club:

Roadway

- Mill and resurface the existing pavement.
- Widen existing pavement to extend the merge taper length from the weigh station in the northbound direction to meet the requirements.
- Correct any cross slope or superelevation deficiencies at the horizontal curve at the north end of the project limits.
- Adjust the existing storm drain manholes, utility manhole tops, and valves within the limits of milling & resurfacing or shared-use path reconstruction, as necessary and provide ADA compliant manhole and valve box covers.
- Regrade the existing roadway side slopes to meet standards and install pedestrian/bicycle railing along the proposed shared use path where applicable.
- Replace guardrail and anchorages as shown in the concept plans.
- Reconstruct driveway locations with pavement deterioration.
- Address drop offs due to vehicle off tracking at side street intersections.
- Repair/replace any damaged drainage inlet tops.

Pedestrian and Bicycle Facilities

- Reconstruct the existing 6 feet bike path to provide an 8-10 feet shared use path with 2 feet (minimum) wide graded area and maximum 1:6 slope adjacent to both sides of the path where feasible from East Ridge Road to Executive Bay Club.

April 21, 2023

Project Name: SR 5/US-1/Overseas Hwy from West of Venetian Blvd to Frontaine Dr, Monroe County, Florida
Resurfacing, Restoration, and Rehabilitation (RRR) Scoping Report

- Provide detectable warnings at all the intersections and commercial driveway crossings. In areas where the pedestrian facility has an asphalt surface, a shot section of concrete that will accommodate detectable warning marking is required.
- Above ground installations such as poles, signs, mailboxes etc. should be removed outside 4-foot side shared use path horizontal clearance zone, where feasible.

Signing and Pavement Marking

- Upgrade all broken and substandard ground-mounted signs to comply with the latest editions of the FDOT Standard Plans, the FDOT Traffic Engineering Manual (TEM), and the Manual on Uniform Traffic Control Devices (MUTCD).
- Replace and upgrade all pavement markings to meet the latest FDOT Standard Plans for Road Construction.
- Provide 7 feet buffered bicycle lane keyholes at the exclusive right turn locations in the northbound direction.
- Replace all missing, faded and/or damaged signs within the project limits.
- Relocate existing signs outside of shared use path horizontal clear zone or provide at least 2 feet from the edge of the shared use path where right of way is constrained.
- Replace existing tubular delineators.

Lighting

- Perform lighting warrant analysis to determine the need for continuous lighting along the project corridor and provide adequate corridor and shared use path lighting if warranted.
- Replace pull boxes impacted by the reconstruction of shared-use path and/or pedestrian curb ramps.
- Relocate surface pull boxes outside of the shared use path where feasible

Landscape

- Trim trees and shrubs to comply with clear sight triangle and shared use path clearance requirements where feasible. Location of the existing trees and shrubs must also comply with the proposed shared use path horizontal clear area requirements.
- Restore any landscape damaged by the proposed reconstruction of the existing bike path to an 8-10 feet shared use path.
- Correct any steep side slope deficiencies adjacent to the proposed shared use path along the project corridor.

Safety Improvements

Segment-wide

Safety Improvements

- Coordinate with local law enforcement officials (Monroe Police Department) to increase existing efforts to enforce the posted speed limit during the non-peak hours to ensure compliance and mitigate the reported Rear End collisions which may have occurred due to excessive speed.
- Coordinate with the Department's Transportation Systems Management & Operation Unit (TSM&O), the traffic signal maintaining agency, to replace the missing "Signal Warning" with "Prepare to Stop When Flashing" flashing beacon sign assembly located on the southbound approach to the Snake Creek drawbridge.

Non-safety Improvements

- Upgrade all existing crosswalk markings to special emphasis crosswalk markings.

April 21, 2023

Project Name: SR 5/US-1/Overseas Hwy from West of Venetian Blvd to Frontaine Dr, Monroe County, Florida
Resurfacing, Restoration, and Rehabilitation (RRR) Scoping Report

Cluster 1 (MP 12.030 to MP 12.380)

Safety Improvements

- Install “Lane Ends” (W4-2L) signs for the northbound and southbound merge lane transitions located north and south of Venetian Boulevard to mitigate Rear End collisions occurring within the limits of the merge lane transitions.

Non-safety Improvements

- Upgrade the auxiliary transition lane length for the northbound exclusive right-turn acceleration lane at the NB Off Weigh Station intersection based on the 45 MPH posted speed.

Cluster 2 (MP 12.896 MP 13.093)

Non-safety Improvements

- Upgrade the taper length for the northbound right-turn lane at the East Ridge Road intersection based on the 45 MPH posted speed.
- Reduce the length of the existing northbound left-turn lane at the East Ridge Road intersection (MP 13.079) to accommodate a northbound left-turn lane to service Gimpy Gulch Drive and the adjacent store (MP 12.97).

The project corridor is located in an area dominated by conservation, residential, and recreational land use along SR 5/US-1/Overseas Hwy from West of Venetian Blvd to Frontaine Dr, Monroe County, Florida. The recommended project activities are expected to occur entirely within the existing operational right-of-way (ROW). Based on a review of the ProjectSuite Enterprise Edition (PSEE) financial module, this project is programmed to use federal funds. Therefore, this project is anticipated to qualify as a Type 1 Categorical Exclusion. The D6 Environment Section will continue to evaluate the project’s Class of Action during future phases.

An Environmental Resources Desktop Analysis was conducted for the above-referenced project. The purpose of this evaluation is to identify environmental features and advise the design team of such features prior to preparation of initial engineering plans to facilitate compliance with the National Environmental Policy Act (NEPA). The design team must be aware that any required environmental surveys, environmental documents, and/or agency coordination identified in this memorandum will require time for completion. For example, certain environmental processes have a minimum agency review time (e.g. Section 106 coordination, Section 4(f), wetland impact permitting, etc.) or must be conducted within specific months of the year (e.g. threatened and endangered species surveys). Therefore, the design team must coordinate with the D6 Environment Section as early in the design phase as possible, especially if any plans review phases will be skipped, and must consider any required environmental activities when preparing the design schedule.

The project was evaluated using the following sources:

- GIS review of natural, social, cultural, and physical resource layers using the Efficient Transportation Decision Making (ETDM) Environmental Screening Tool (EST)
- Aerial imagery and street maps
- Review of 449738-1 RRR Scoping Report and Appendices

The GIS layers within the ETDM EST are continually updated. Therefore, the information contained in this report, which is based on a review of the ETDM EST, is only valid as of the date of this memo. Likewise, the anticipated determinations of effect are based on the project improvements as currently proposed/recommended. Any changes in project scope, limits, and/or design may impact the effect determinations and, subsequently, the Class of Action. We highly recommend that the project manager keep the D6 Environment Section abreast of any significant design changes and/or scope additions. The

April 21, 2023

Project Name: SR 5/US-1/Overseas Hwy from West of Venetian Blvd to Frontaine Dr, Monroe County, Florida
Resurfacing, Restoration, and Rehabilitation (RRR) Scoping Report

D6 Environment Section will continue to review the ETDM EST and the project documents as the project advances through future phases.

NEPA items required to be reviewed for FDOT projects:

Local Traffic Patterns

The project corridor SR 5/US-1/Overseas Hwy from West of Venetian Blvd to Frontaine Dr is accessible from SR 5/US-1/Overseas Hwy in the northbound and southbound directions, as well as other local cross streets along the project corridor. A Traffic Control Plan (TCP) needs to be developed to maintain access to local residences, businesses, and recreational areas during construction. Based on a review of the RRR Scoping Report, the recommended activities include modifications to the roadway that will not alter traffic patterns. The purpose of this project is to preserve and extend the service life of the existing asphalt pavement and is not anticipated to cause major adverse impacts on travel patterns.

Planned Community Growth/Land Use Patterns

Implementation of the recommended activities would not affect capacity or alter land use. Any effects from these activities would be temporary in nature, and as such, are not expected to adversely impact planned community growth or planned land use patterns.

Property Access

Based on a review of the RRR Scoping Report, no adverse effects to property access are expected as a result of the recommended activities. However, if access is modified as a result of this project, an access management meeting will be required prior to the implementation of the proposed improvements. Please ensure that proper coordination is done with the public regarding any access modifications.

Air Quality and Noise

This is not a capacity improvement project or an alignment shift; therefore, no long-term air quality or noise impacts will occur as a result of the recommended activities. The project is located in an area which is designated attainment for all of the National Ambient Air Quality Standards under the criteria provided in the Clean Air Act. Therefore, the Clean Air Act conformity requirements do not apply.

Because the recommended scope of the work does not involve construction of additional through lanes or auxiliary lanes, and no significant noise impacts are expected as per 23 CFR 772, a noise analysis is not required. There may be a temporary increase in noise from additional truck traffic and staging equipment during construction. Due to the proximity of the site to residential and commercial areas, project-related activities should consider noise impacts on nearby residences and businesses.

Water Quality

Based on a review of EST GIS layers and aerial imagery, the project corridor is adjacent to the Florida Keys National Marine Sanctuary, which is designated Outstanding Florida Waters. The project corridor is also adjacent to the Snake Creek. It appears no in-water work is proposed as a result of this project. Therefore, no adverse impacts to water quality are anticipated as a result of the recommended activities. If in-water work is proposed, environmental permits from federal, state and/or local agencies may be required.

Wetlands

Based on a review of EST GIS layers and aerial imagery, there are Estuarine and Marine Deepwater wetlands and Palustrine wetlands located directly adjacent the project corridor. It appears no work is proposed within the wetlands. Therefore, no adverse impacts to wetlands are anticipated as a result of the recommended activities. Erosion and sedimentation control measures will be required during

April 21, 2023

Project Name: SR 5/US-1/Overseas Hwy from West of Venetian Blvd to Frontaine Dr, Monroe County, Florida
Resurfacing, Restoration, and Rehabilitation (RRR) Scoping Report

construction. Coordination with the Environmental Permits Office will be required to confirm any impacts to wetlands.

Navigation

Based on a review of EST GIS layers and aerial imagery, there are no navigable waterways within or adjacent to the project corridor. Therefore, no impacts to navigation are anticipated as a result of the recommended activities, and the project will not require an individual U.S. Coast Guard (USCG) Bridge Permit.

Floodplain Encroachment

Based on a review of EST GIS layers, the project is located within Zones AE and Null of the 100-year floodplain. This project will not: 1) affect flood heights or base floodplain limits, 2) result in increased or new adverse environmental impacts, 3) increase flood risks or damage, or 4) significantly change the potential for interruption or termination of emergency service or emergency evacuation routes. Therefore, this project will not encroach upon the base floodplain, as defined in Part 2, Chapter 13 of the Project Development and Environment (PD&E) Manual.

Wild and Scenic Rivers

Based on a review of EST GIS layers and aerial imagery, there are no Wild and Scenic Rivers within or adjacent to the project corridor. The recommended activities will not require construction in, across, or adjacent to a river designated as a component of, or proposed for inclusion in, the National System of Wild and Scenic Rivers. Therefore, no adverse impacts to Wild and Scenic Rivers are anticipated as a result of the recommended activities.

Endangered and Threatened Species, Wildlife, and Critical Habitats

Based on a review of EST GIS layers, the following species may inhabit or migrate through the project corridor. The project is within the designated critical habitat for the American crocodile (*Crocodylus acutus*) and is adjacent to mangrove swamps. The project corridor is within the consultation area for the American crocodile (*Crocodylus acutus*), Eastern indigo snake (*Drymarchon couperi*), the Piping Plover (*Charadrius melodus*), Roseate Tern (*Sterna dougallii dougallii*), Schaus Swallowtail butterfly (*Heraclides aristodemus ponceanus*), and the West Indian Manatee (*Trichechus manatus latirostris*). Coordination with the USFWS and/or National Marine Fisheries Service (NMFS) will be required for impacts to any habitat for these species. The D6 Environment Section will continue to evaluate during the Design phase and perform the survey if needed. However, based on the proposed work, this project is expected to have **No Effect** on these species.

Based on a review of EST GIS layers, ETDM GIS layers and the RRR Scoping Report, this project is expected to result in a **Determination of No Effect** concerning impacts to threatened and endangered species and/or their critical habitat in accordance with Section 7 of the Endangered Species Act.

There is Essential Fish Habitat adjacent to the project corridor. It appears no in-water work is proposed as a result of this project. Therefore, no adverse impacts to Essential Fish Habitat are anticipated as a result of the recommended activities. If in-water work is proposed, environmental permits from federal, state and/or local agencies may be required.

Project staging areas selection will require environmental review and approval prior to use. No staging of equipment or materials should occur within environmentally sensitive areas.

The D6 Environment Section will continue to evaluate the project's potential effects on protected species during the Design phase.

April 21, 2023

Project Name: SR 5/US-1/Overseas Hwy from West of Venetian Blvd to Frontaine Dr, Monroe County, Florida
Resurfacing, Restoration, and Rehabilitation (RRR) Scoping Report

Right of Way Acquisition and Displacements

Based on a review of the RRR Scoping Report, it appears that the recommended project activities are expected to occur entirely within the existing operational right-of-way (ROW). If any work is proposed outside of the ROW, proper coordination with property owners and meetings with the public will be required regarding any proposed ROW acquisitions. The D6 Environment Section will continue to evaluate the project's ROW requirements during future phases. Please notify the D6 Environment Section of any proposed work outside of the ROW and/or any proposed right-of-way acquisitions.

Section 4(f) of the Department of Transportation Act

Based on a review of EST GIS layers and aerial imagery, Founder's Park, a potential Section 4(f) resource, is adjacent to the project corridor. Based on the project limits and provided project information, no impacts to Section 4(f) resources are anticipated as a result of the recommended activities, in accordance with Section 4(f) of the USDOT Act.

Section 106 of the National Historic Preservation Act

A review of Florida Master Site File GIS cultural resources data, Monroe County Property Appraiser GIS data, and additional GIS data available from the Florida Geographic Data Library identified no archaeological or historical resources within the likely APE. One National Register–ineligible structure and a National Register–ineligible segment of historic roadway was identified adjacent to but not within the likely APE. If the scope and location of the improvements remain consistent with those contained in the scoping report, then it is anticipated that the Planning and Environmental Management Office (PLEMO) will need to prepare a Minimal Impact Determination Form to notify the State Historic Preservation Officer (SHPO) of the finding of 'no historic properties affected' under Stipulation VI of the Section 106 Programmatic Agreement. SHPO will have 30 days from receipt of the notification to object.

Contamination

A contamination impact review utilizing the FDOT District VI Contamination Screening Tool was performed for the project corridor. The Contamination Screening Tool contains Geographic Information System layers depicting contaminated sites identified by the Florida Department of Environmental Protection and Miami Dade County Department of Regulatory Economic Resources. Based on said review, a known contaminated site has been identified within a 500-ft radius of the project corridor. However, there are no drainage features, subsurface excavation, and/or dewatering in proximity of the known contaminated sites, therefore, no contamination impacts are anticipated. If drainage, dewatering or other subsurface work is added to the project scope, additional evaluation for contamination impacts may be required.

Controversy

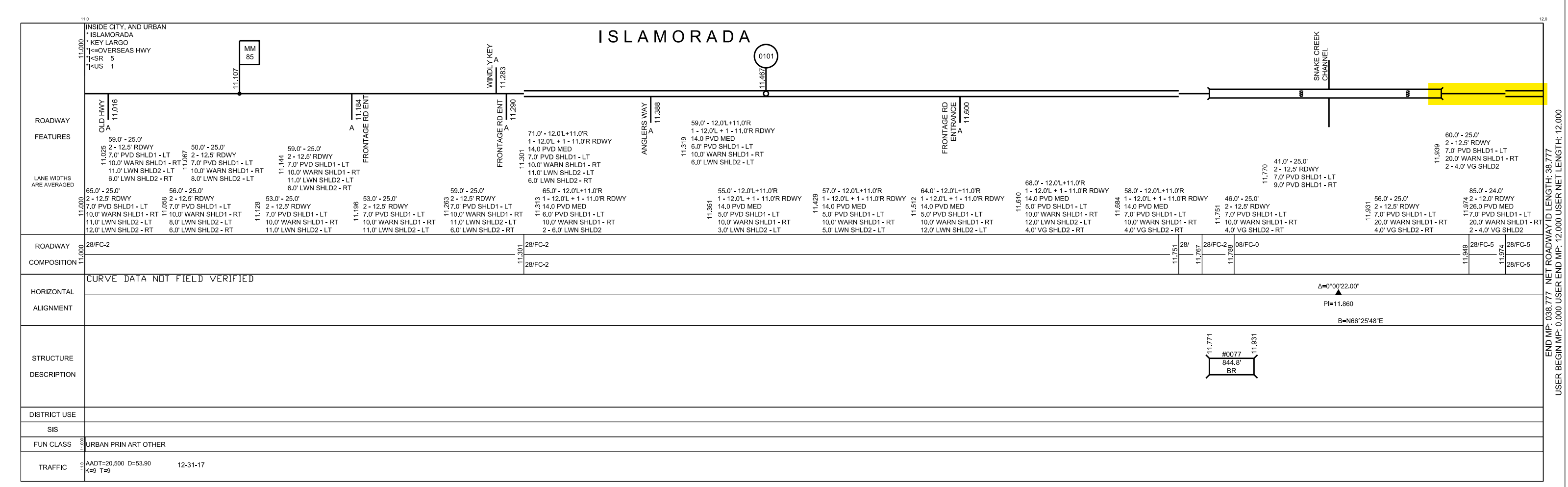
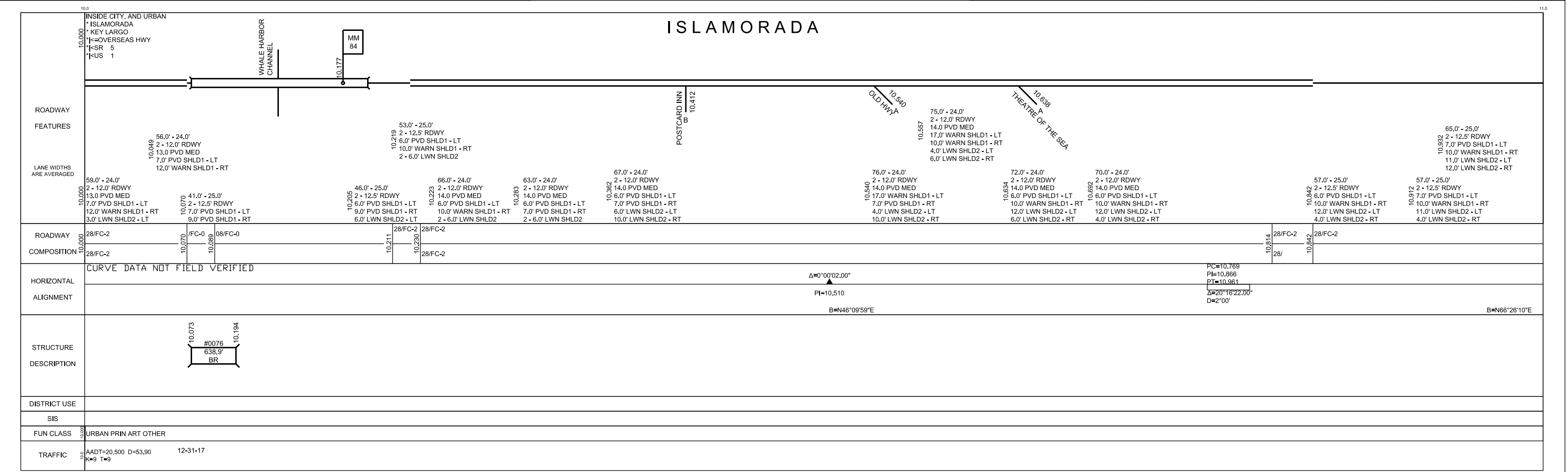
There are no known controversial environmental issues associated with this project. The action is not anticipated to have substantial controversy on environmental grounds

Permits

Environmental permitting requirements are to be provided by the Environmental Permits Office. Please notify the D6 Environment Section of any required permits.

C. Corridor Files

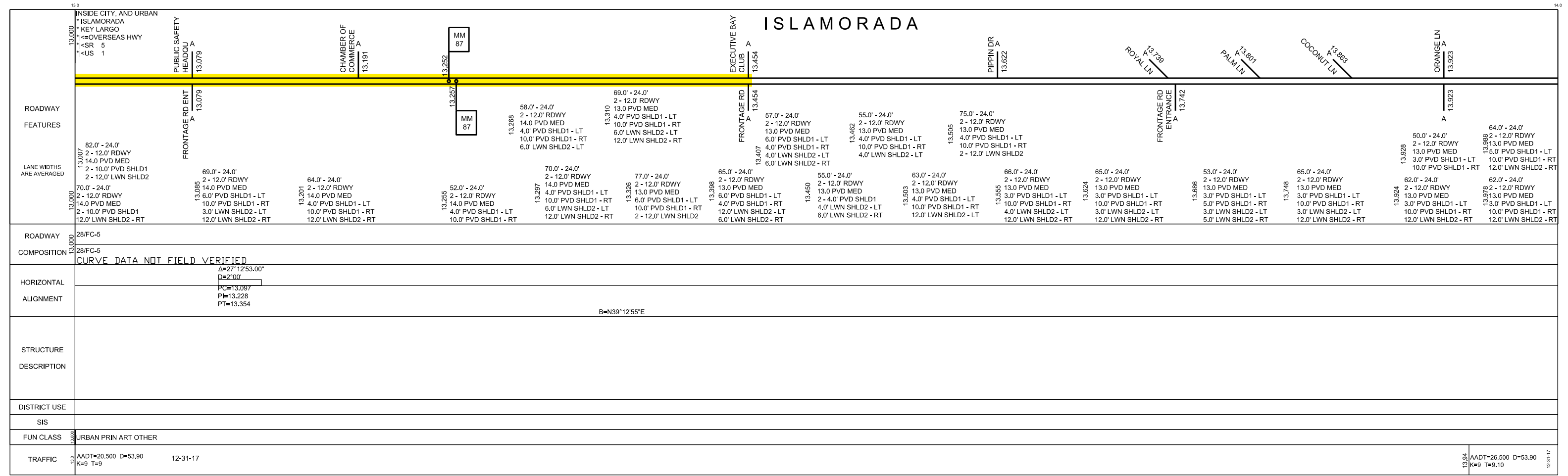
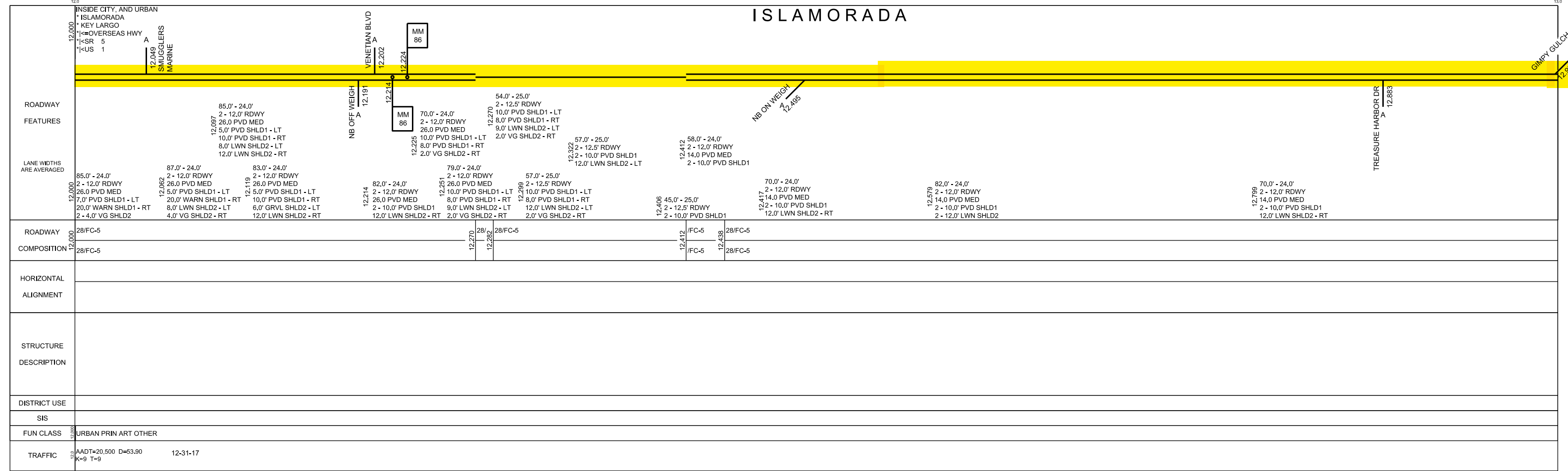
- C-1. Straight Line Diagram
- C-2. Project Data Sheet and Pavement Forecast
- C-3. Utility Owners List



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering	Cts Engineering			

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	7 OF 20



FM_449738-1

NOTE: Recommend Project to be strung with FM_447810-1

Candidate Number	Project Type	Road Name Section Number (Mile Posts)	From	To	Length	Lanes	Lane Miles	Construction Cost
#1M & #3M	RRR	SR 5 / US-1 / Overseas Highway 90060000 (11.939 - 13.417) Plantation Key	West of Venetian Blvd.	Frontaine Drive	1.478	2	2.956	\$1,664,228



Pavement Condition Survey (PCS) Ratings				
Year	Age	Crack	Ride	Rut
2021	12	6.5	7.6	9.0
2022	13	4.5	7.6	9.0
2027	18			

Recommendations
NEW RRR Candidate Construction Letting FY-27
Previous RRR FM_405582-8 (MP 11.891-12.891) FY-08
Previous RRR FM_405646-1 (MP 11.450-13.110) FY-03
Previous RRR FM_414649-1 (MP 13.030-16.320) FY-08

Ticket : 170306096 Rev:000 Taken: 06/19/23 14:48ET

State: FL Cnty: MONROE GeoPlace: ISLAMORADA
 CallerPlace: ISLAMORADA
 Subdivision:

Address :
 Street : OVERSEAS HWY
 Cross 1 : VENETIAN BLVD
 Within 1/4 mile: Y
 Cross 2 : W PIPPEN DR

Locat: DESIGN TICKET FOR R/W TO R/W ON SR 5/US 1/OVERSEAS HIGHWAYS FROM WEST OF
 VENETIAN BOULEVARD TO NORTH OF EXECUTIVE BAY CLUB

:

Remarks : IN RESPONSE TO RECEIPT OF A DESIGN TICKET, SSOCOF PROVIDES THE
 ORIGINATOR OF THE DESIGN TICKET WITH A LIST OF SSOCOF MEMBERS IN THE VICINITY
 OF THE DESIGN PROJECT. SSOCOF DOES NOT NOTIFY SSOCOF MEMBERS OF THE RECEIPT BY
 SSOCOF OF A DESIGN TICKET. IT IS THE SOLE RESPONSIBILITY OF THE DESIGN
 ENGINEER TO CONTACT SSOCOF MEMBERS TO REQUEST INFORMATION ABOUT THE LOCATION OF
 SSOCOF MEMBERS' UNDERGROUND FACILITIES. SUBMISSION OF A DESIGN TICKET WILL NOT
 SATISFY THE REQUIREMENT OF CHAPTER 556, FLORIDA STATUTES, TO NOTIFY SSOCOF OF
 AN INTENT TO EXCAVATE OR DEMOLISH. THAT INTENT MUST BE MADE KNOWN SPECIFICALLY
 TO SSOCOF IN THE MANNER REQUIRED BY LAW. IN AN EFFORT TO SAVE TIME ON FUTURE
 CALLS, SAVE YOUR DESIGN TICKET NUMBER IF YOU INTEND TO BEGIN EXCAVATION WITHIN
 90 DAYS OF YOUR DESIGN REQUEST. THE DESIGN TICKET CAN BE REFERENCED, AND THE
 INFORMATION ON IT CAN BE USED TO SAVE TIME WHEN YOU CALL IN THE EXCAVATION
 REQUEST.

*** LOOKUP BY BETWEEN ***

:

Grids : 2457A8033A 2457B8033A 2457B8034C 2457B8034D 2457C8034A
 Grids : 2457C8034B 2457C8034C 2457D8034A

Work date: 06/19/23 Time: 14:40ET Hrs notc: 000 Category: 6 Duration: UNKNOWN
 Due Date : 06/21/23 Time: 23:59ET Exp Date : 07/19/23 Time: 23:59ET
 Work type: DESIGN Boring: N White-lined: N
 Ug/Oh/Both: U Machinery: N Depth: UNK Permits: N N/A
 Done for : DESIGN

Company : GOAL ASSOCIATES INC Type: CONT
 Co addr : 14750 NW 77TH CT
 Co addr2: SUITE 320
 City : MIAMI LAKES State: FL Zip: 33016
 Caller : YOLANDA DUARTE Phone: 786-600-3350
 BestTime: 9-5
 Email : YOLANDA.DUARTE@GOALASSOCIATES.COM

Submitted: 06/19/23 14:48ET Oper: YOL Chan: WEB
 Mbrs : CC1279 FDOT06 FK1295 FK1794 FK1795 FK2330 IC2034 IV1608 SBF23

* Responses are current as of 06/19/2023 02:48 PM

<u>Ex. Circum</u>	<u>Service Area</u>	<u>Utility Type(s)</u>	<u>Contact</u>	<u>Alternate Contact</u>	<u>Emergency Contact</u>	<u>Positive Response</u>
No	COMCAST CABLE CC1279	CATV, FIBER	RICARDO DAVIDSON (786) 586-8505		HFC HELP DESK (855) 962-8525	
No	FLORIDA DEPARTMENT OF TRANSPORTATION VI ITS FDOT06	FIBER	THOMAS MILLER (305) 470-5757 x7352	IT ADMIN (305) 470-5757 x7340	ANTONIO VALLADARES (561) 703-1113	
No	FLORIDA KEYS ELECTRIC COOPERATIVE ASSOC. FK1295	ELECTRIC	BILL LEE (305) 852-2431 x310	USIC DISPATCH (800) 778-9140	SYSTEM OPERATION & CONTROL (S O C) ** (305) 853-7160	
No	FLORIDA KEYS AQUEDUCT AUTHORITY AREA 4 & 5 FK1794	WATER	MARNIE WALTERSON (305) 295-2154	CHRISTINE MALSHEIMER (305) 240-3868	JAMES LEWANSKI (305) 809-2685	
No	FLORIDA KEYS AQUEDUCT AUTHORITY UPPER KEYS TRANS FK1795	WATER	MARNIE WALTERSON (305) 295-2154	CHRISTINE MALSHEIMER (305) 240-3868	JAMES LEWANSKI (305) 809-2685	
No	FLORIDA KEYS AQUEDUCT AUTHORITY TECHNICAL SERVICE- FK2330	ELECTRIC	MARNIE WALTERSON (305) 295-2154	JON STRAUSS (305) 809-2632	REYNER LOPEZ (786) 349-6551	
No	INFRASTRUCTURE CORP OF AMERICA IC2034	ELECTRIC	WILLIAM NICKEL (305) 289-4360	JAMES CARLSON (305) 432-6276	WILLIAM NICKEL (305) 289-4360	
No	ISLAMORADA VILLAGE OF ISLANDS IV1608		ANDREW "A.J." ENGELMEYER (305) 852-6933	JOAQUIN MIRANDA (305) 481-7203	KEVIN CALDWELL (305) 680-9005	
No	A T & T/ DISTRIBUTION SBF23	TELEPHONE	DINO FARRUGGIO G27896@ATT.COM	UTILIQUEST LLC * (888) 357-1922	AT&T NETWORK OPERATIONS CENTER (800) 247-2020	

D. Pavement Design Documents

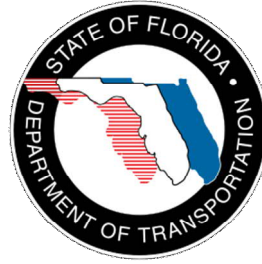
- D-1. 18-kip ESAL Report
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- D-3. Resilient Modulus (MR)

Florida
Department
of
Transportation

District Six
Planning and
Environmental
Management
Office

Transportation
Systems
GIS Data
Development
and Mapping

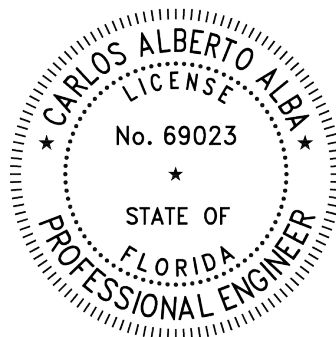
FM No.: 449738-1-32-01
Contract No.: C-AC17
FDOT PM:
Ana M. Calleja, PE



18-KIP ESAL Report
Section 90-060-000

SR 5/US-1/Overseas Highway
from
West of Venetian Boulevard
to
Frontaine Drive

MP 11.939 to MP 13.417
FDOT FP No.: 449738-1-32-01



Transportation Systems GIS Data Development and Mapping

FM No.: 449738-1-32-01

Contract No.: C-AC17

Project Traffic Forecasting 18-KIP ESAL Calculations

SR 5/US-1/OVERSEAS HWY

Segment No.	Section No.	Location
1	90060000	SR 5/US-1/Overseas Highway from west of Venetian Boulevard to Frontaine Drive

Prepared for
Florida Department of Transportation
District Six

November 2021

Table of Contents

	Page
1. Introduction	1
2. Project Identification	1
3. Traffic Data	3
4. Traffic Growth Trends Analysis	6
5. 18-KIP ESAL Calculations	7

List of Tables

Table 1 - Project Identification	2
Table 2 - FDOT Traffic Data Summary (2019) - Segment 1	4
Table 3 - Historical Growth Trends Summary	6
Table 4 - Volumes Summary for 18-KIP ESAL Calculations.....	7
Table 5 - Truck Percentages	7
Table 6 - ESAL Accumulation Summary	7

List of Figures

Figure 1 - Segment Location	3
Figure 2 - FDOT Traffic Count Stations for Segment 1	4

List of Appendix

Appendix A: FDOT 18-KIP Request Form and Straight Line Diagram

Appendix B: Historical AADT Reports and Classification Counts

Appendix C: TRENDS Worksheets - Historical Data

Appendix D: 18-KIP ESAL Calculations



1. Introduction

The purpose of this report is to document the methodology and results of the development of the 18-KIP Equivalent Single Axle Load (ESAL) calculations for a segment along SR 5/US-1/Overseas Highway from west of Venetian Boulevard to Frontaine Drive. Both the southern and northern sections of this segment are located in Plantation Key. The segment under evaluation is located in Monroe County, Florida.

2. Project Identification

The project was initiated by the Florida Department of Transportation (FDOT), District Six Planning and Environmental Management Office. The FDOT Request Forms are provided in Appendix A. Table 1 provides general information for the segment under analysis, which is illustrated in Figure 1.

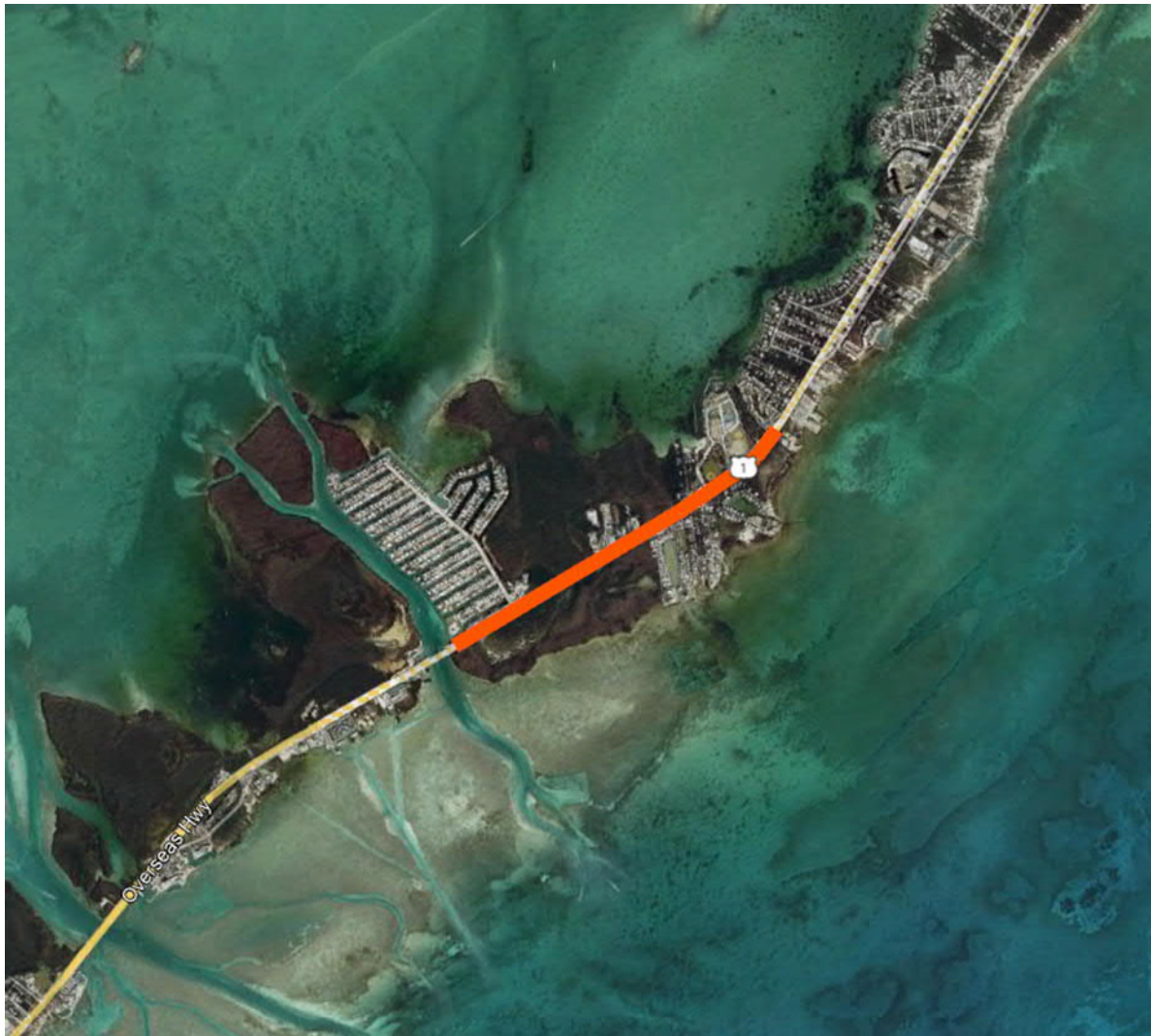


Table 1 - Project Identification

	Segment 1
Section Number	90060000
Roadway Name	Overseas Highway
Project Limits	BMP 11.939 to EMP 13.417
FDOT FP #	449738-1-32-01
Jurisdiction	Plantation Key
Directionality	NB/SB (Two-Way)
Speed Limit	45 mph
Existing Typical Section	2 lanes
Proposed Typical Section	2 lanes
Opening Year	2027
Design Year	2047
Functional Classification	Urban Principal Arterial
Area Type	Urban
Pavement Type	Asphalt
Type of Work	Resurfacing



Figure 1 - Segment Location



3. Traffic Data

The FDOT Florida Traffic Online (2020) Application was used to obtain Historical Average Annual Daily Traffic (AADTs) along the segment under study, which was used for the development of the 18-KIP ESAL calculations.

There are no data points along Segment 1. The following data point shown in Figure 2 is near Segment 1:

- Site #90-0101 - SR 5/US-1, 1400 feet south of Snake Creek Bridge



Figure 2 - FDOT Traffic Count Station for Segment 1



Table 2 summarizes the traffic data available at the station for the year 2019. A detailed copy of the Historical Average Annual Daily Traffic (AADT) Reports from FDOT’s database is provided in Appendix B.

Table 2 - FDOT Traffic Data Summary (2019) - Segment 1

Station #	Location	AADT	K	D	T
90-0101	R 5/US-1, 1400 feet south of Snake Creek Bridge	21,500	9.00	54.7	8.9

It is important to mention that 2019 instead of 2020 AADTs were selected for the ESAL calculations because they provided for a more conservative analysis as they are not influenced by the reduction in traffic due to the COVID 19 pandemic.



Due to the unavailability of datasets from the latest Florida Standard Urban Transportation Model Structure (FSUTMS) for Plantation Key, South East Regional Planning Model (SERPM 8) forecasting traffic were not considered in this report. Therefore, traffic growth trends were based on historical AADTS only.



4. Traffic Growth Trends Analysis

Using FDOT’s TRENDS spreadsheets and historical data obtained from the FDOT 2020 Online Application, growth rates were calculated using three types of analysis: Straight Line, Exponential and Decaying Exponential. Table 3 summarizes the R-Square values of the different types of analysis, growth rates and forecasted volumes calculated for FDOT stations located near the segment under analysis. It is important to note that AADTs for 2020 were removed from the trends calculation, given the low volumes reported due to the COVID 19 pandemic.

The analysis shows that traffic will grow at a rate of 1.09 percent per year based on the historical data collected at FDOT traffic stations in the area. The report of historical AADTs for Station 90-0101 is included in Appendix B. The TRENDS analysis spreadsheets using historical data are included in Appendix C.

Table 3 - Historical Growth Trends Summary

Segment No.	FDOT Station	Method	R-Squared	Annual Historic Growth Rate	Forecasted Volumes		
					Opening Year (2027)	Mid-Year (2037)	Design Year (2047)
1	90-0101	Straight Line	2.03%	0.63%	23,400	24,600	25,900
		Exponential	2.5%	0.57%	23,300	24,800	26,300
		Decaying Exponential	6.49%	1.09%	23,100	23,500	23,800



5. 18-KIP ESAL Calculations

The 18-KIP ESAL calculations for the segments under analysis are included in Appendix D. Existing traffic for segment 1 is based on FDOT 2020 online application. Note that 2019 AADTs instead of 2020 AADTs were used for existing traffic to minimize the influence of the COVID 19 pandemic and provide for a more conservative analysis. The calculations are based on the historical data from the FDOT Stations. Table 4 summarizes the existing and future volumes used in the 18-KIP calculations.

Table 4 - Volumes Summary for 18-KIP ESAL Calculations

Segment No	Existing Traffic (2019)	Opening Year (2027)	Mid-Year (2037)	Design Year (2047)
1	21,500	23,100	23,500	23,800

Truck percentages are summarized in Table 5. The truck percentage for Segment 1 was calculated from traffic recorded at Station 90-0101 in 2019.

Table 5 - Truck Percentages

Segment No	T
1	8.9%

The resulting Equivalent Single Axle Load (ESAL) accumulations for mid-year and design year are summarized on Table 6. The calculations were performed for resurfacing and flexible pavement.

Table 6 - ESAL Accumulation Summary

Segment No.	Section No.	ESAL Accumulation (1,000s)	
		Opening Year (2027) to Mid-Year (2037)	Opening Year (2027) to Design year (2047)
1	90060000	3369	6789

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Contract No.: C-AC17
FDOT PM:
Ana M. Calleja, PE

Appendix A

FDOT 18-KIP Request Form and Straight Line Diagram

18 KIP Request Form

Date: _____

To: Ana M. Calleja, Statistics Project Manager (AnaM.Calleja@dot.state.fl.us)

From: _____, FDOT Project Manager

By: _____, Design Project Engineer

Copies to: File

Subject: FPID #: _____ State Road # / US #: _____

Local Name: _____ County: _____

Roadway ID #: _____ From Milepost: _____ To Milepost: _____

Description: _____

* Note: If you need additional space, please include the description within your email

Budget Construction (Letting) Year: _____ Year Open to Traffic: _____

Present number of lanes (both ways): _____ Divided? _____ * (Field Required)

Number of lanes in design year (both ways): _____ Divided? _____ * (Field Required)

Area Type: _____ * (Field Required)

Type of Facility: _____ * (Field Required) Other: _____

Pavement Type: _____ * (Field Required)
1. Asphalt (Flexible): _____
2. Concrete (Rigid): _____ a) D=9": b) D=12":

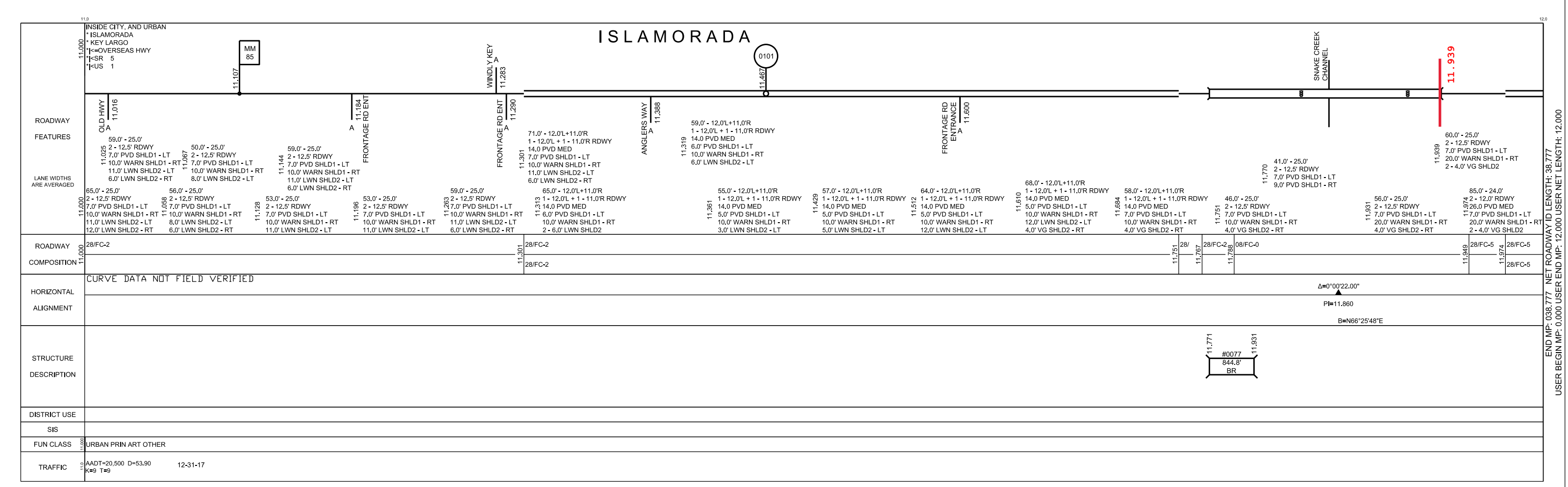
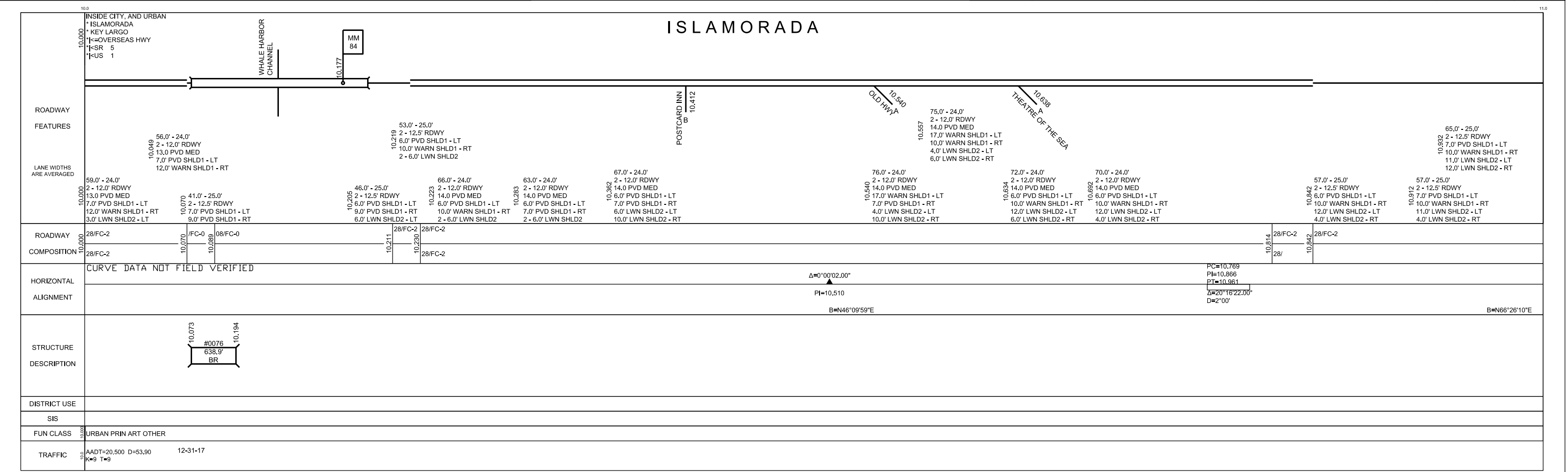
Type of Work: _____ * (Field Required)

Select one or more of the types of data requested to be returned to the FDOT Project Manager for the subject project:

1. 18-kip Equivalent Single Axle Loading (ESAL):
2. Projections: 3. Turning Movements: 4. Traffic Counts:

Please attach:

- a) Locator Map (key sheet, Straight Line Diagram (SLD), etc...)
- b) Existing and proposed typical cross sections (if available)
- c) Consultant's traffic counts (if available)



FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	7 OF 20

5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
DATE					
BY	Cts Engineering	Cts Engineering			

ROADWAY	FEATURES	LANE WIDTHS ARE AVERAGED	COMPOSITION	HORIZONTAL ALIGNMENT	STRUCTURE DESCRIPTION	DISTRICT USE	SIS	FUN CLASS	TRAFFIC
INSIDE CITY, AND URBAN ISLAMORADA KEY LARGO =OVERSEAS HWY SR 5 US 1	VENETIAN BLVD 12,202 MM 86 12,224 NB OFF WEIGH 12,191 12,214 12,225 12,270 12,282 12,412 12,438 12,406 12,417 12,579	85.0' - 24.0' 2 - 12.0' RDWY 26.0 PVD MED 5.0' PVD SHLD1 - LT 10.0' PVD SHLD1 - RT 8.0' LWN SHLD2 - LT 12.0' LWN SHLD2 - RT	28/FC-5 28/FC-5					URBAN PRIN ART OTHER	AADT=20,500 D=53.90 K=9 T=9 12-31-17

ROADWAY	FEATURES	LANE WIDTHS ARE AVERAGED	COMPOSITION	HORIZONTAL ALIGNMENT	STRUCTURE DESCRIPTION	DISTRICT USE	SIS	FUN CLASS	TRAFFIC
INSIDE CITY, AND URBAN ISLAMORADA KEY LARGO =OVERSEAS HWY SR 5 US 1	PUBLIC SAFETY HEADQU 13,079 CHAMBER OF COMMERCE 13,191 FRONTAGE RD ENT 13,079 MM 87 13,252 13,257 13,288 13,310 13,326 13,388 13,454 EXECUTIVE BAY CLUB 13,454 FRONTAGE RD 13,407 13,462 13,505 PIPPIN DR 13,622 ROYAL LN 13,739 PALM LN 13,801 COCONUT LN 13,863 ORANGE LN 13,923	82.0' - 24.0' 2 - 12.0' RDWY 14.0 PVD MED 2 - 10.0' PVD SHLD1 2 - 12.0' LWN SHLD2	28/FC-5 28/FC-5	$\Delta=27^{\circ}12'53.00''$ $D=2'00''$ $PC=13,097$ $PI=13,228$ $PT=13,354$ $B=N39^{\circ}12'55''E$				URBAN PRIN ART OTHER	AADT=20,500 D=53.90 K=9 T=9 12-31-17

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Contract No.: C-AC17
FDOT PM:
Ana M. Calleja, PE

Appendix B

Historical AADT Reports and Classification Counts

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2020 HISTORICAL AADT REPORT

COUNTY: 90 - MONROE

SITE: 0101 - SR 5/US-1, 1400' S OF SNAKE CREEK BRIDGE (MM 85.4)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2020	19500 C	N 9600	S 9900	9.00	54.10	13.30
2019	21500 C	N 10500	S 11000	9.00	54.70	8.90
2018	20400 C	N 10500	S 9900	9.00	55.10	8.80
2017	20500 C	N 10500	S 10000	9.00	53.90	9.00
2016	22000 C	N 11000	S 11000	9.00	54.90	9.80
2015	27500 C	N 14000	S 13500	9.00	54.30	5.80
2014	25500 C	N 13000	S 12500	9.00	55.20	6.90
2013	19300 C	N 9600	S 9700	9.00	54.80	10.00
2012	19900 C	N 10000	S 9900	9.00	55.00	7.80
2011	21500 C	N 11000	S 10500	9.00	55.10	8.90
2010	19800 C	N 10000	S 9800	10.26	56.84	8.10
2009	13700 C	N 7000	S 6700	10.23	56.56	5.40
2008	18200 C	N 9000	S 9200	10.45	54.98	9.20
2007	27000 F	N 13000	S 14000	10.00	55.10	9.90
2006	27000 C	N 13000	S 14000	10.08	55.69	8.90
2005	20500 C	N 10000	S 10500	10.40	55.70	9.30

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

FLORIDA DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION STATISTICS OFFICE
 2020 VEHICLE CLASS HISTORY DATA

COUNTY: 90 -- MONROE

SITE: 0101 DESCRIPTION: SR 5/US-1, 1400' S OF SNAKE CREEK BRIDGE (MM 85.4)

YEAR	AADT	PASSENGER VEHICLES		TOTAL TRUCKS		SINGLE UNIT TRUCKS		COMBINATION TRAILER TRUCKS		MULTI TRAILER TRUCKS	
		%	VOLUME	%	VOLUME	%	VOLUME	%	VOLUME	%	VOLUME
2020	19500	86.69	16,905	13.31	2,595	9.10	1,775	4.06	792	0.15	29
2019	21500	91.08	19,582	8.92	1,918	6.27	1,348	2.56	550	0.09	19
2018	20400	91.14	18,593	8.86	1,807	4.38	893	4.24	865	0.24	49
2017	20500	91.06	18,667	8.94	1,833	6.15	1,261	2.66	545	0.13	27
2016	22000	90.25	19,855	9.75	2,145	6.22	1,369	3.42	752	0.11	24
2015	27500	94.25	25,919	5.75	1,581	3.01	828	2.72	748	0.02	6
2014	25500	93.11	23,743	6.89	1,757	4.13	1,053	2.69	686	0.07	18
2013	19300	90.00	17,371	10.00	1,929	6.68	1,289	3.19	615	0.13	25
2012	19900	92.18	18,344	7.82	1,556	5.08	1,011	2.71	539	0.03	6
2011	21500	91.11	19,589	8.89	1,911	6.03	1,296	2.77	595	0.09	19
2010	19800	91.88	18,192	8.12	1,608	5.19	1,028	2.84	562	0.09	18
2009	13700	94.58	12,958	5.42	742	3.20	438	2.19	300	0.03	4
2008	18200	90.77	16,520	9.23	1,680	5.89	1,072	3.21	584	0.13	24
2007	27000	90.09	24,324	9.91	2,676	5.69	1,536	4.10	1,107	0.12	32
2006	27000	91.13	24,605	8.87	2,395	6.02	1,625	2.63	710	0.22	59
2005	20500	90.18	18,487	9.82	2,013	4.92	1,008	4.83	990	0.07	14

NOTE: 1 - PASSENGER VEHICLES = VEHICLE CLASS 1-3, 14, 15
 2 - TOTAL TRUCKS = VEHICLE CLASS 4-13
 3 - SINGLE UNIT TRUCKS = VEHICLE CLASS 4-7
 4 - COMBINATION TRAILER TRUCKS = VEHICLE CLASS 8-10
 5 - MULTI TRAILER TRUCKS = VEHICLE CLASS 11-13

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FDOT PM:
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Appendix C

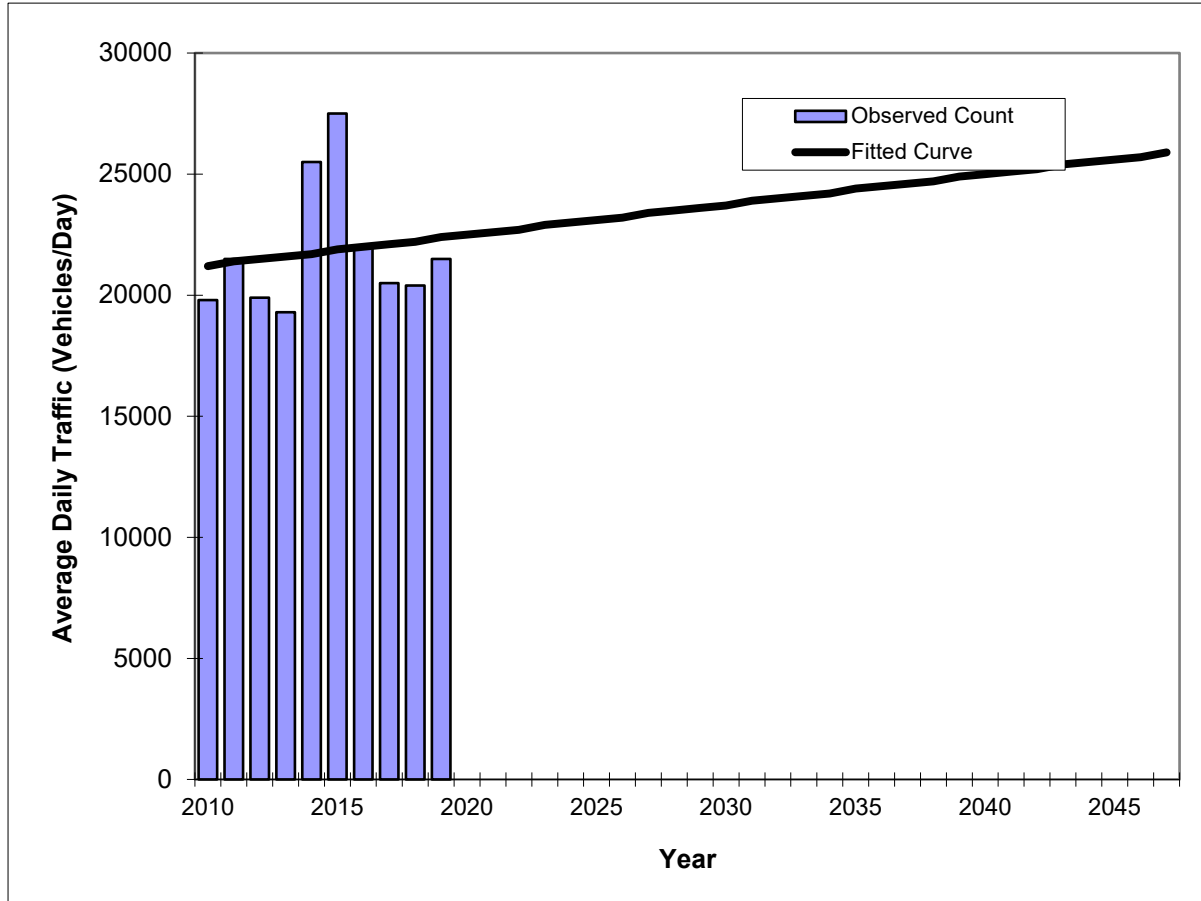
TRENDS Worksheets - Historical Data

Traffic Trends - V03.a

SR 5/US-1/OVERSEAS HWY --

FIN#	1234
Location	1

County:	Monroe (90)
Station #:	900101
Highway:	SR 5/US-1/OVERSEAS HWY



Year	Traffic (ADT/AADT)	
	Count*	Trend**
2010	19800	21200
2011	21500	21400
2012	19900	21500
2013	19300	21600
2014	25500	21700
2015	27500	21900
2016	22000	22000
2017	20500	22100
2018	20400	22200
2019	21500	22400
2027 Opening Year Trend		
2027	N/A	23400
2037 Mid-Year Trend		
2037	N/A	24600
2047 Design Year Trend		
2047	N/A	25900
TRANPLAN Forecasts/Trends		

** Annual Trend Increase:	125
Trend R-squared:	2.03%
Trend Annual Historic Growth Rate:	0.63%
Trend Growth Rate (2019 to Design Year):	0.56%
Printed:	10-Nov-21
Straight Line Growth Option	

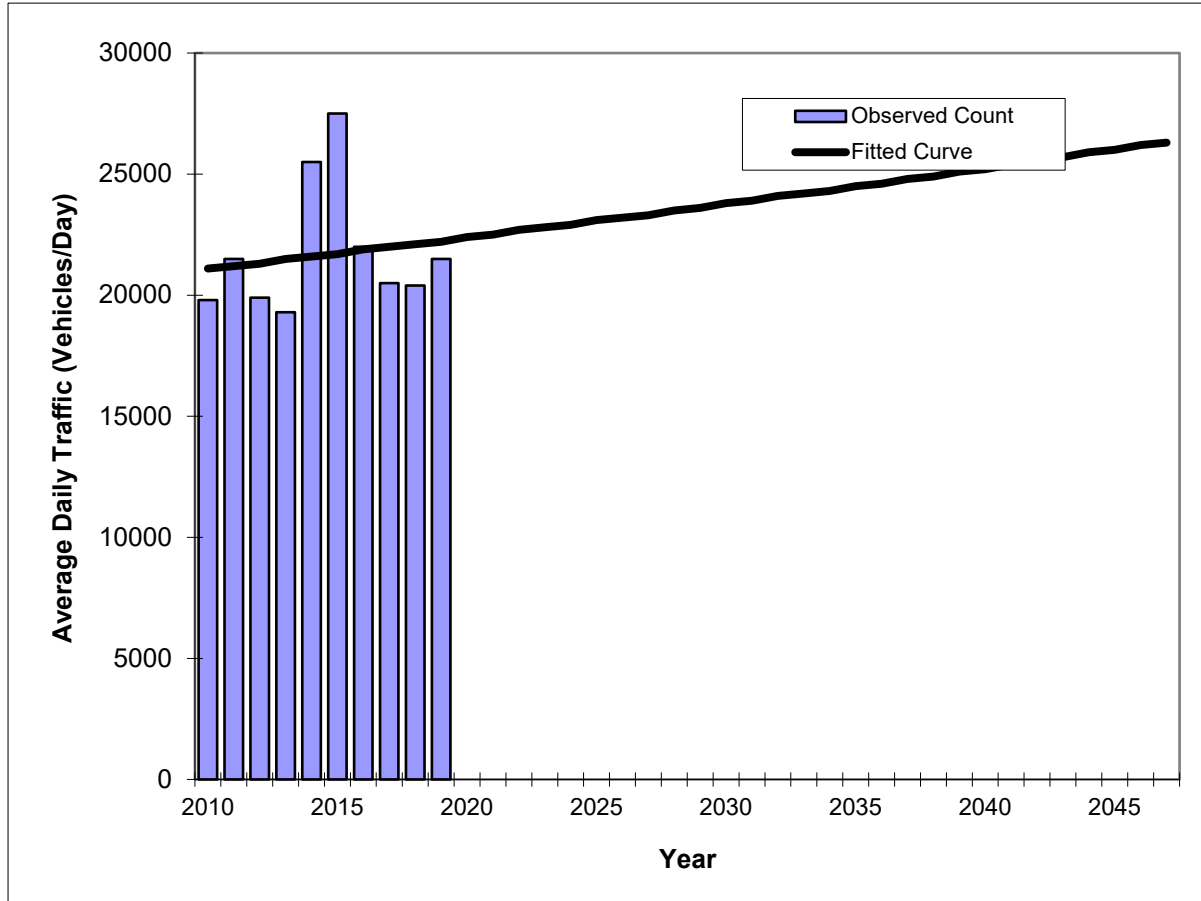
*Axle-Adjusted

Traffic Trends - V03.a

SR 5/US-1/OVERSEAS HWY --

FIN#	1234
Location	1

County:	Monroe (90)
Station #:	900101
Highway:	SR 5/US-1/OVERSEAS HWY



Year	Traffic (ADT/AADT)	
	Count*	Trend**
2010	19800	21100
2011	21500	21200
2012	19900	21300
2013	19300	21500
2014	25500	21600
2015	27500	21700
2016	22000	21900
2017	20500	22000
2018	20400	22100
2019	21500	22200
2027 Opening Year Trend		
2027	N/A	23300
2037 Mid-Year Trend		
2037	N/A	24800
2047 Design Year Trend		
2047	N/A	26300
TRANPLAN Forecasts/Trends		

Trend R-squared:	2.50%
Compounded Annual Historic Growth Rate:	0.57%
Compounded Growth Rate (2019 to Design Year):	0.61%
Printed:	10-Nov-21
Exponential Growth Option	

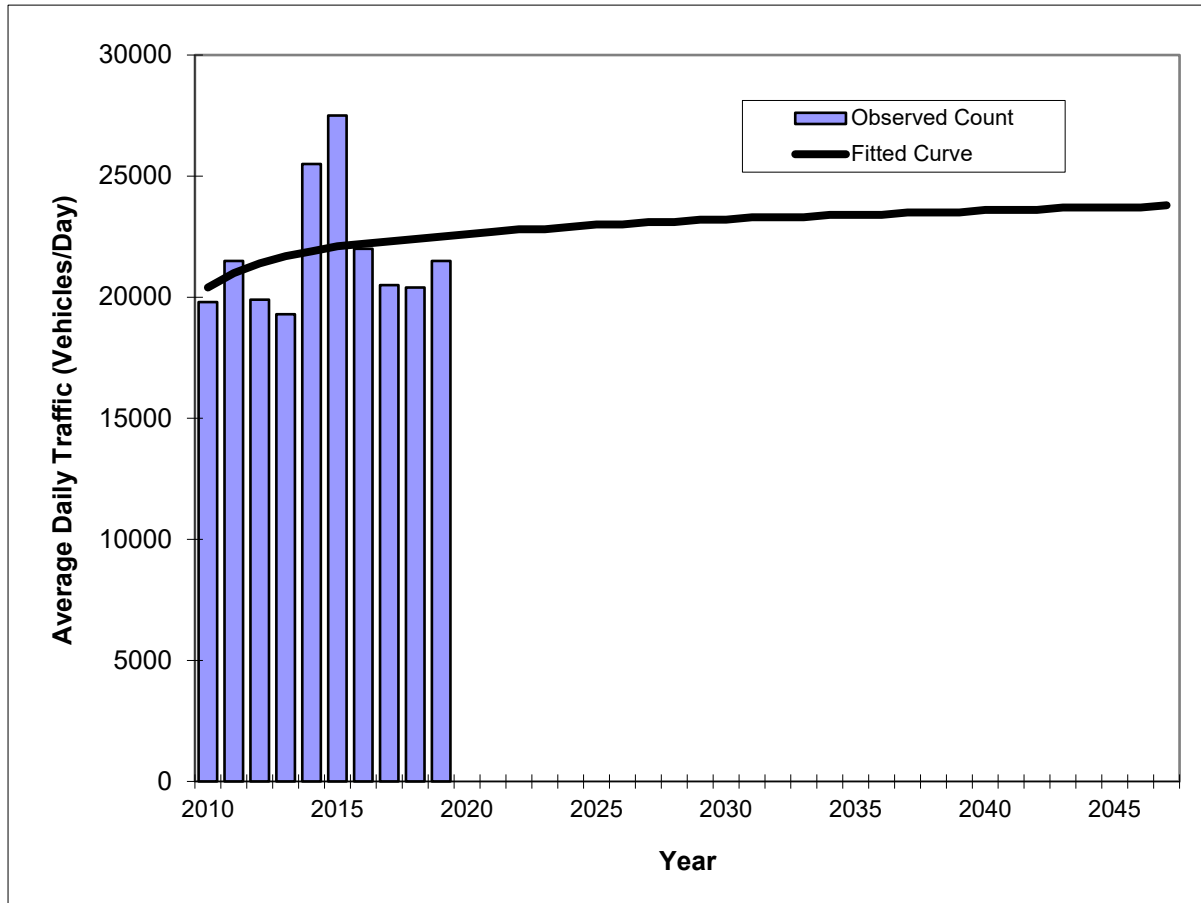
*Axle-Adjusted

Traffic Trends - V03.a

SR 5/US-1/OVERSEAS HWY --

FIN#	1234
Location	1

County:	Monroe (90)
Station #:	900101
Highway:	SR 5/US-1/OVERSEAS HWY



Year	Traffic (ADT/AADT)	
	Count*	Trend**
2010	19800	20400
2011	21500	21000
2012	19900	21400
2013	19300	21700
2014	25500	21900
2015	27500	22100
2016	22000	22200
2017	20500	22300
2018	20400	22400
2019	21500	22500
2027 Opening Year Trend		
2027	N/A	23100
2037 Mid-Year Trend		
2037	N/A	23500
2047 Design Year Trend		
2047	N/A	23800
TRANPLAN Forecasts/Trends		

Trend R-squared:	6.49%
Compounded Annual Historic Growth Rate:	1.09%
Compounded Growth Rate (2019 to Design Year):	0.20%
Printed:	10-Nov-21
Decaying Exponential Growth Option	

*Axle-Adjusted

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Contract No.: C-AC17
FDOT PM:
Ana M. Calleja, PE

Appendix D

18-KIP ESAL Calculations

18 kip EQUIVALENT SINGLE AXLE LOAD ANALYSIS

PROJECT TRAFFIC FOR PD&E and DESIGN ANALYSIS INFO / FACTORS

PIN #: 0
 COUNTY: Monroe
 ROADWAYID: 90060000
 PROJECT DESCRIPTION: SR 5/US-1/OVERSEAS HWY

LOCATION #: 1
LOCATION DESCRIPTION: From Milepost 11.939 to Milepost 13.417

GROWTH RATE FORMULA

A: Interpolation
 B: Enter Growth Rate
 C: Enter All AADTs
 D: New Facility

Choose A, B, C, or D here: C

Linear Growth Rate _____ %
 Compounded Growth Rate _____ %
 Decaying Growth Rate _____ %
 (select one)

If "A" select an interpolation function
 If "B" enter rate as decimals (1%=1.01)
 If "C", or "D" continue to next section

DESIGN INFORMATION

	AADT		Daily Direction Split (50% or 100%)	
Existing Year <u>2019</u>	<u>21500</u>		<u>50%</u>	
Opening Year <u>2027</u>	<u>23100</u>		<u>1</u>	
Mid-Design Year <u>2037</u>	<u>23500</u>		T24 values	
Design Year <u>2047</u>	<u>23800</u>		Existing to Opening Year	<u>8.90%</u>
			Opening to Mid-Year	<u>8.90%</u>
			Mid-Year to Design-Year	<u>8.90%</u>

Note: AADT values have been rounded to the nearest 100

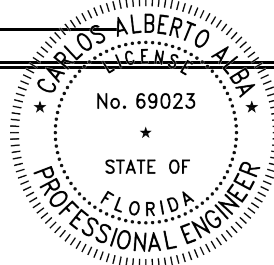
1995 EQUIVALENCY FACTORS [u(1)]

	FLEXIBLE PAVEMENT SN = 5/THICK		RIGID PAVEMENT SN = 12/THICK	
(selected with an X)				
RURAL FREEWAY:	1.050	___	1.600	___
URBAN FREEWAY:	0.900	___	1.270	___
RURAL HIGHWAY:	0.960	___	1.350	___
URBAN HIGHWAY:	0.890	<u>X</u>	1.220	___
OTHER (Enter Factor and X):		___		___

(1) Equivalency Factors are based on Updated Pavement Damage Factors Memorandum, dated July 2, 1998.
Lane Factors developed by Copes equation

I have reviewed the 18 kip Equivalent Single Axle Loads (ESAL's) to be used for pavement design on this project. I hereby attest that these have been developed in accordance with the FDOT Project Traffic Forecasting Procedure using historical traffic data and other available information.

Prepared by: <u>Wenging Chen, PhD</u>	Sr. Traffic Eng.	WSP	11/10/2021
Name <u>Wenging Chen</u>	Title	Org. Unit or Firm	Date
Signature _____			
Reviewed by: Name <u>Carlos Alba</u>	Sr. Traffic Eng.	WSP	11/10/2021
Name <u>Carlos Alba</u>	Title	Org. Unit or Firm	Date
Signature _____			



18 kip EQUIVALENT SINGLE AXLE LOAD ANALYSIS - LOCATION 1

PROJECT TRAFFIC FOR PD&E and DESIGN ANALYSIS INFO / FACTORS

YEARS: 2019 to 2047

SECTION #: 90060000

COUNTY: Monroe

PIN #: 0

FLEXIBLE PAVEMENT URBAN HIGHWAY 0.890

SN=5/THICK

SR 5/US-1/OVERSEAS HWY

C

YEAR	AADT	ESAL (1000S)	ACCUM (1000s)	D	T	LF	EF
2019	21500	311	0	0.5	8.90%	1.000	0.890
2020	21700	314	0	0.5	8.90%	1.000	0.890
2021	21900	317	0	0.5	8.90%	1.000	0.890
2022	22100	320	0	0.5	8.90%	1.000	0.890
2023	22300	323	0	0.5	8.90%	1.000	0.890
2024	22500	326	0	0.5	8.90%	1.000	0.890
2025	22700	329	0	0.5	8.90%	1.000	0.890
2026	22900	332	0	0.5	8.90%	1.000	0.890
2027	23100	334	334	0.5	8.90%	1.000	0.890
2028	23100	334	668	0.5	8.90%	1.000	0.890
2029	23100	334	1002	0.5	8.90%	1.000	0.890
2030	23200	336	1338	0.5	8.90%	1.000	0.890
2031	23200	336	1674	0.5	8.90%	1.000	0.890
2032	23300	337	2011	0.5	8.90%	1.000	0.890
2033	23300	337	2348	0.5	8.90%	1.000	0.890
2034	23300	337	2685	0.5	8.90%	1.000	0.890
2035	23400	339	3024	0.5	8.90%	1.000	0.890
2036	23400	339	3363	0.5	8.90%	1.000	0.890
2037	23500	340	3703	0.5	8.90%	1.000	0.890
2038	23500	340	4043	0.5	8.90%	1.000	0.890
2039	23500	340	4383	0.5	8.90%	1.000	0.890
2040	23500	340	4723	0.5	8.90%	1.000	0.890
2041	23600	342	5065	0.5	8.90%	1.000	0.890
2042	23600	342	5407	0.5	8.90%	1.000	0.890
2043	23600	342	5749	0.5	8.90%	1.000	0.890
2044	23700	343	6092	0.5	8.90%	1.000	0.890
2045	23700	343	6435	0.5	8.90%	1.000	0.890
2046	23700	343	6778	0.5	8.90%	1.000	0.890
2047	23800	345	7123	0.5	8.90%	1.000	0.890

Opening to Mid-Design Year ESAL Accumulation (1000s): 3369

Opening to Design Year ESAL Accumulation (1000s): 6789

I have reviewed the 18 kip Equivalent Single Axle Loads (ESAL's) to be used for pavement design on this project. I hereby attest that these have been developed in accordance with the FDOT Project Traffic Forecasting Procedure using historical traffic data and other available information.

Prepared by: Wenqing Chen, PhD Sr. Traffic Eng. WSP 11/10/2021

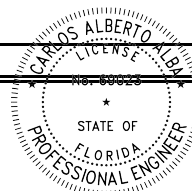
Name Wenqing Chen Title Org.Unit or F Date

Signature _____

Reviewed By: Carlos Alba, PE, PTOE Sr. Traffic Eng. WSP 11/10/2021

Name Carlos Alba Title Org.Unit or F Date

Signature _____







District	6	GPR Test Date	11/02/21
County	Monroe	MPSV Test Date	
Roadway Id.	90060000		
Item-Seg	449738-1		
State Rd.	5	US Rd.	1
Req. Milepost	11.939	to	13.417
GPR Milepost	11.940	to	13.498
MPSV Milepost		to	
		Project # of Lanes	2
		GPR # of Lanes	2
		MPSV # of Lanes	

PAVEMENT TYPE

Milepost		Lanes	
From	To	L1	R1
11.939	13.417		F

Legend:

F = Flexible, R = Rigid, B = Composite (HMA / PCC) and W = Composite (PCC/HMA)

Notes:

Please type your notes here.

SUMMARY STATISTICS & PLOT SETTINGS (Please use the menu in this block to modify the settings.)

Display: Statistics Plots

Thickness for HMA or PCC

Pass	Fail
white	orange
blue	yellow
green	red

Cross Slope

blue	yellow
------	--------

Rut Depth

green	red	
Lane	Max. Value	Min. Value
	15	3

Lanes: All or L1R1 L2R2 L3R3 L4R4 L5R5 L6R6

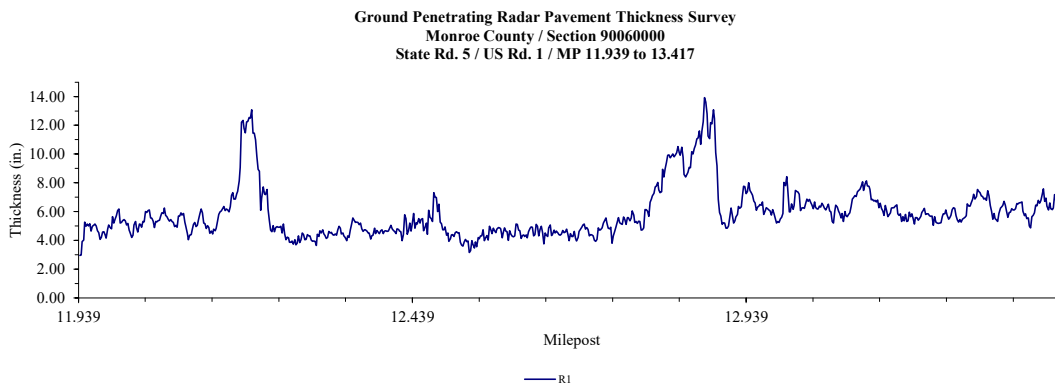
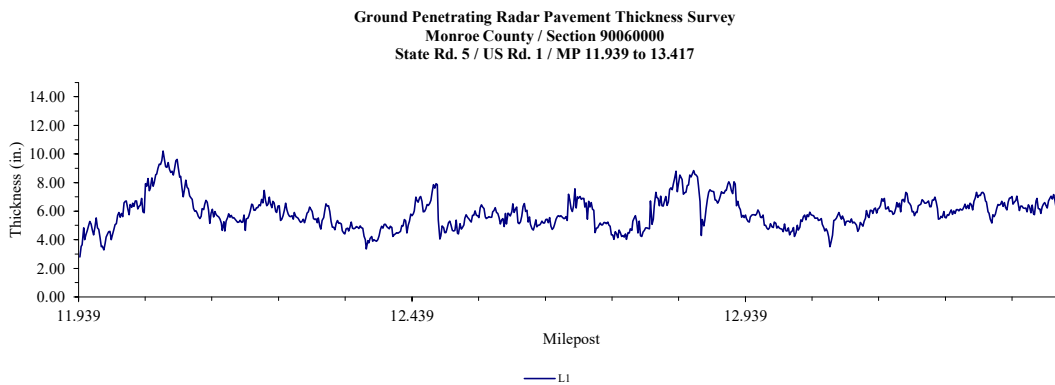
Limits:

	Minimum	Maximum	Maj. Unit	Min. Unit
x	11.939	13.417	0.5	0.10
y	0.0	15.0	2.0	1.00

SUMMARY STATISTICS

Lane #	L-Direction				R-Direction				Units:
	Average	Stdev	Max.	Min.	Average	Stdev	Max.	Min.	in.
1	5.88	1.12	10.2	2.79	5.85	1.75	13.93	2.95	

PLOTS





Florida Department of Transportation

RON DESANTIS
GOVERNOR

STATE MATERIALS OFFICE
5007 Northeast 39th Avenue, Gainesville, Florida 32609
Telephone: (352) 955-6341, Fax: (850) 412-8160

KEVIN J. THIBAUT
SECRETARY

TO: Felix Hernandez, District 6 Design Support Engineer
FROM: Guangming Wang, P.E., State Pavement Performance Evaluation Engineer
DATE: December 9, 2021
COPIES:
SUBJECT: Resilient Modulus Recommendation

Project Description: SR 5/US 1
MP 11.939 to 13.417
Project Number: 90060000
FIN No.: 449738-1
County: Monroe

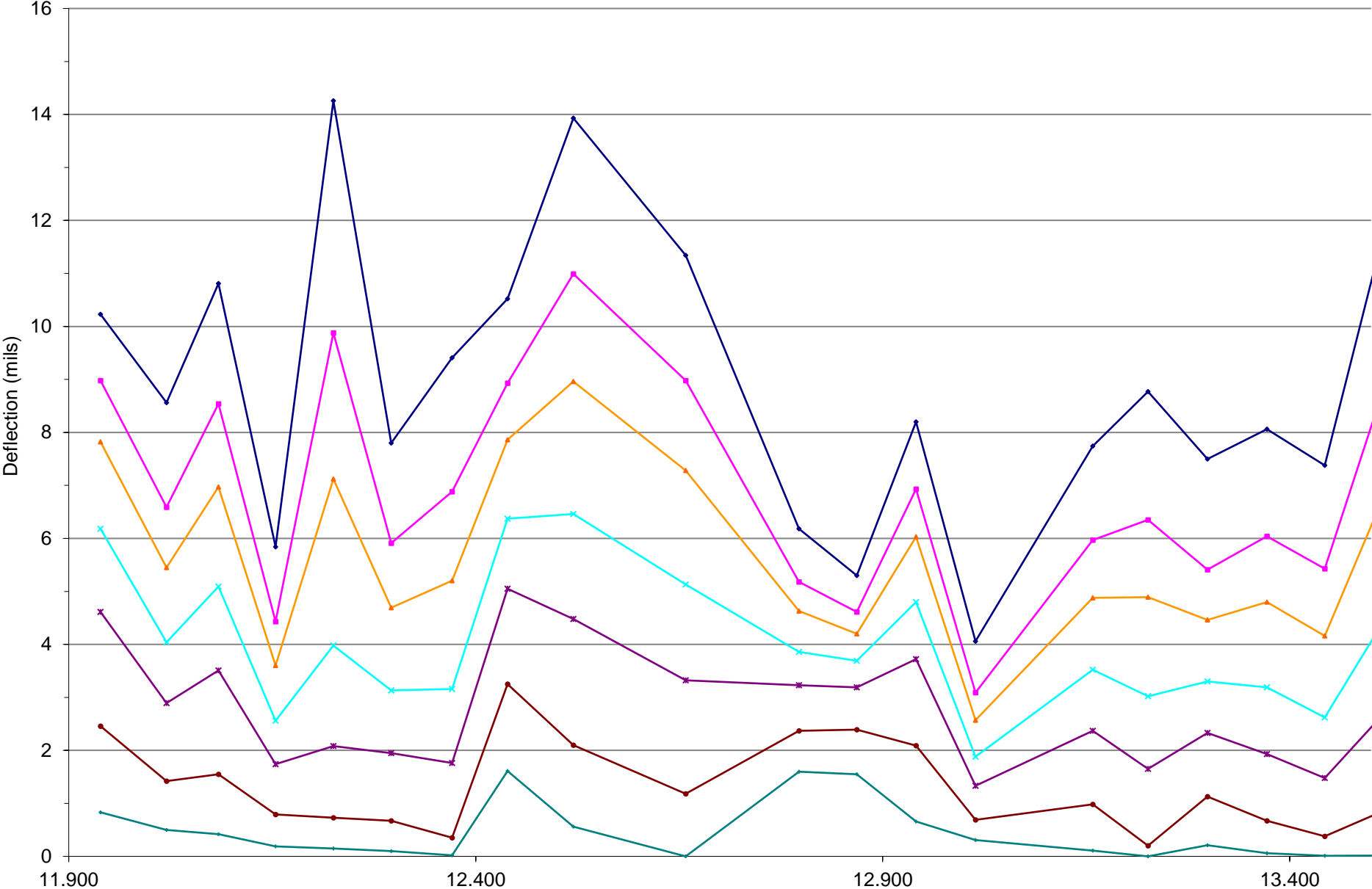
On December 01, 2021 deflection tests were conducted in the right traffic lane of SR 5/US 1. Evaluation of the data and resulting deflection plot indicates the following Resilient Modulus is representative of the existing pavement system and is hereby recommended for this project.

Travel Direction	Beginning Milepost	Ending Milepost	Modulus (psi)	Modulus (MPa)
Right	11.939	13.417	21,000	145

Please let me know if you need further assistance.

GW/gm
Attachment: Deflection Plot

Falling Weight Deflections - 9 Kip Load
Monroe County / Section 90060000
SR 5 Right Direction / MP 11.939 to 13.417



Legend: D0 (dark blue), D8 (magenta), D12 (orange), D18 (cyan), D24 (purple), D36 (brown), D60 (teal)

E. Plans from Previous and Programmed Projects

- E-1. FPID 405582-8-52-01
- E-2. FPID 414649-1-52-01
- E-3. FPID 444920-1-52-01
- E-4. FPID 447810-1-52-01

THIS CONTRACT PLAN SET INCLUDES
 ROADWAY PLANS
 SIGNING & PAVEMENT MARKING PLANS
 PORTABLE TRAFFIC MONITORING SITE PLANS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

FINAL "AS-BUILT" PLANS

FINANCIAL PROJECT ID 405646-1-52-01

MONROE COUNTY

STATE ROAD NO. 5 (US-1 / OVERSEAS HIGHWAY)



LOCATION OF PROJECT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3A - 3B	TYPICAL SECTION
4	SUMMARY OF QUANTITIES / PAY ITEM NOTES
5	PROJECT LAYOUT
6	GENERAL NOTES
7	SUMMARY OF DRAINAGE STRUCTURES AND OPTIONAL PIPE MATERIALS TABULATION
8 - 11	PRIMARY NETWORK CONTROL SHEETS
12 - 27	ROADWAY PLANS
28 - 30	DRAINAGE STRUCTURES
31	DRAINAGE DETAILS
32 - 35	ROADWAY SOIL SURVEY
36 - 43	CROSS SECTIONS
44	STORM WATER POLLUTION PREVENTION PLAN
45	TRAFFIC CONTROL NOTES
46 - 47	TRAFFIC CONTROL PLANS

Computation Book	1 of 1
Field Books	No. 01
Asphalt Packages	Lots 1 - 4
Striping Log	No. 01

Certified MOT Log No. 01

GOVERNING STANDARDS AND SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION,
 DESIGN STANDARDS, DATED JANUARY 2002, AND
 STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE
 CONSTRUCTION DATED 2000,
 AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS
 ROADWAY SHEET 28 (REVISED 09-25-03)
 ROADWAY SHEETS 7, 28, 29 & 30 (REVISED 10-21-03)
 ROADWAY SHEETS 4, 14, 40, 41, & 43 (REVISED 02-04-04)
 ROADWAY SHEET 38 (REVISED 02-26-04)
 SIGNING & PAVEMENT MARKING SHEET S-6 (REVISED 02-04-04)

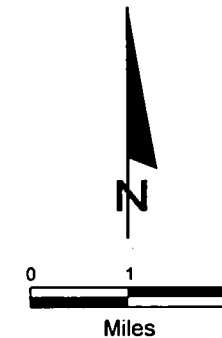
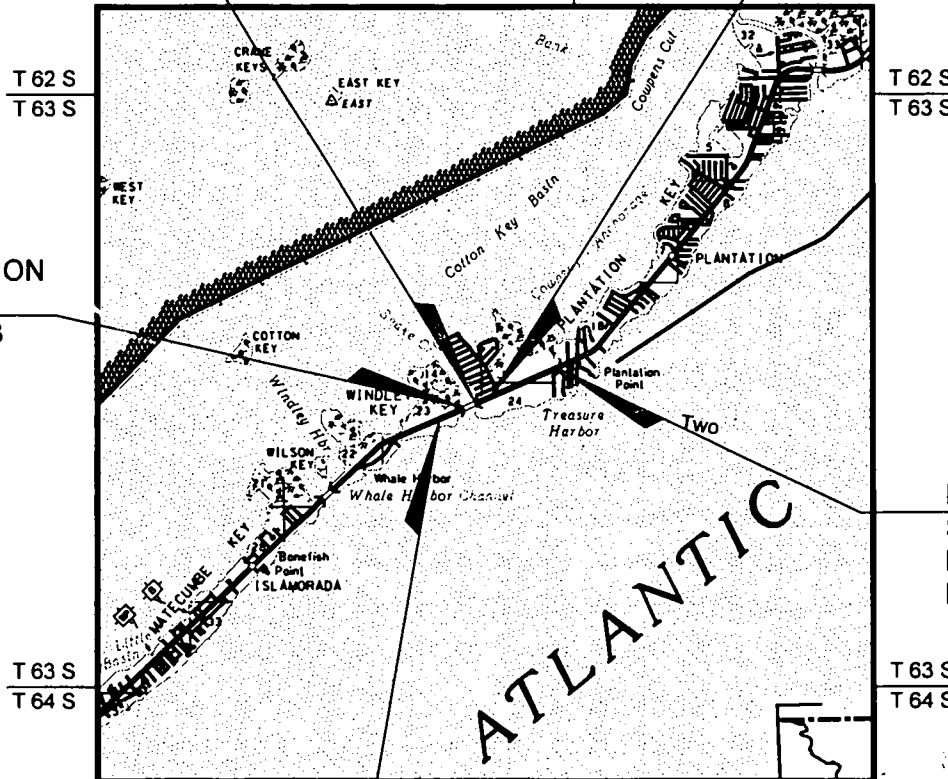
END EXCEPTION
 END BRIDGE
 Q STA. 73+97.08
 M.P. 11.962
 M.M. 85.7

BEGIN EXCEPTION
 BEGIN BRIDGE
 Q STA. 65+48.43
 M.P. 11.801
 M.M. 85.5

BEGIN PROJECT
 STA. 47+12.00
 M.P. 11.453
 M.M. 85.2

EQUATION
 B STA. 91+52.40 =
 C STA. 91+56.14 (BK) =
 B & C STA. 91+52.40 (AH)

END PROJECT
 STA. 134+30.00
 M.P. 13.105
 M.M. 86.9



ROADWAY SHOP DRAWINGS
 TO BE SUBMITTED TO:

CARLOS M. GIL-MERA, P.E.
 APCTE, CORP.
 10305 N.W. 41 STREET, SUITE 115
 MIAMI, FL 33178
 (305) 592-7283

PLANS PREPARED BY:
 ENGINEER OF RECORD:

APCTE ENGINEERS
 A&P Consulting Transportation
 Engineers Corporation
 10305 N.W. 41 Street, suite 115
 Miami, FL 33178
 (305) 592-7283 / fax: (305) 593-1594
 support@apcte.com
 CONTRACT NO: C-7216
 VENDOR NO: 65-0770583

NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED DUE TO REPRODUCTION

This project was constructed in reasonable conformity with the plans of proposed construction as prepared by the Engineer of Record. Significant changes made during construction are indicated by black ink revisions on the individual plan sheet. The signature, date, and seal of the responsible construction engineer apply only to the revisions, and NOT the entire plan sheet.

Responsible Construction Engineer:
C. DEWEY OLIVER, P.E.

Printed name

ROADWAY PLANS
 ENGINEER OF RECORD: **CARLOS M. GIL-MERA, P.E.**

Contractor: Community Asphalt Corporation
 Consultant: Keith and Schnars
 District Secretary: Juan "Johnny" Martinez, P.E.
 Resident Engineer: Rudy Garcia, P.E.
 Project Manager: Charlie Phinzy
 Project Adm.: C. Dewey Oliver, P.E.

P.E. NO.: 43953

FISCAL YEAR	SHEET NO.
03	1

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	7873.09	1.491
BRIDGES		
NET LENGTH OF PROJECT	7873.09	1.491
EXCEPTIONS	848.65	0.161
GROSS LENGTH OF PROJECT	8721.74	1.652

FDOT PROJECT MANAGER: **ELSA N. RIVEROL, P.E.**

PROPERTY 05/08/03
PROPOSAL : E6A60
FINPROJ(S) : 40564615201
LEAD FINPROJ : 40564615201
COUNTY : MONROE
COUNTY/SECTION : 90060000
MANDIST: 06

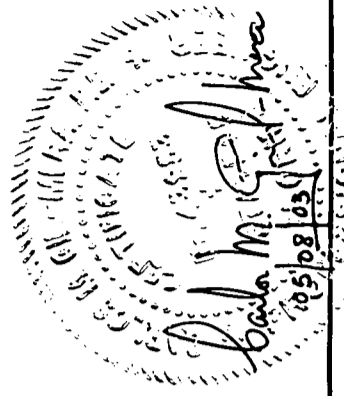
P	ALT	ITEM	NUMBER	DESCRIPTION	IUN	IT	QUANTITY	TOTAL
S								
		10101-1-		MOBILIZATION	LS	N	1.000	1.000
		10102-1-		MAINTENANCE OF TRAFFIC	LS	N	1.000	1.000
		10102-14-		TRAFFIC CONTROL OFFICER	IMH	N	320.000	320.000
		10102-60-		WORK ZONE SIGNS	ED	N	3360.000	3360.000
		10102-71-11		BARRIER WALL (TEMPORARY) (F&I) (CONCRETE)	LF	N	2990.000	2990.000
		10102-71-21		BARRIER WALL (TEMPORARY) (RELOCATE) (CONCRETE)	LF	N	9135.000	9135.000
		10102-74-1		BARRICADE (TEMPORARY) (TYPES I, II, VP & DRUM)	ED	N	7800.000	7800.000
		10102-77-		HIGH INTENSITY FLASHING LIGHTS (TEMP - TYPE B)	ED	N	720.000	720.000
		10102-79-		LIGHTS (TEMP-BARR. WALL MOUNT) (TYPE C STEADY BURN)	ED	N	5300.000	5300.000
		10102-89-7		IMPACT ATTENUATOR (REDIRECTIVE OPTION) (TEMPORARY)	LO	N	10.000	10.000
		10102-99-		SIGN VARIABLE MESSAGE (TEMPORARY)	ED	N	40.000	40.000
		10104-4-		MOWING	PAC	N	1.300	1.300
		10104-13-		ISILT FENCE STAKED (TYPE III)	LF	N	2628.000	2628.000
		10104-16-		ROCK BAGS	EA	N	410.000	410.000
		10110-1-		CLEARING & GRUBBING	LS	N	1.000	1.000
		10120-1-		EXCAVATION REGULAR	CY	N	1240.000	1240.000
		10120-6-		EMBANKMENT	ICY	N	434.000	434.000
		10142-70-		FILL SAND	ICY	N	130.000	130.000
		10145-71-		REINFORCEMENT GRID (BIAXIAL, TYPE 1)	SY	N	3547.000	3547.000
		10285-704-		BASE OPTIONAL (BASE GROUP 04)	SY	N	2484.000	2484.000
		10285-709-		BASE OPTIONAL (BASE GROUP 09)	SY	N	2971.000	2971.000
		10300-1-		1 BIT MATL (PRIME COAT)	GA	N	514.000	514.000
		10300-3-		3 BIT MATL (TACK COAT)	GA	N	3300.000	3300.000
		10327-70-5		MILLING EXIST ASPH PAVT (2" AVG DEPTH)	SY	N	34247.000	34247.000
		10334-1-		SUPERPAVE ASPHALTIC CONC (TRAFFIC C)	ITN	N	3520.500	3520.500
		10337-7-		ASPH CONC FRICTION COURSE (INC BIT/RUBBER)	ITN	N	1667.500	1667.500
		10425-1-		INLETS (DT BOT) (TYPE F)	EA	N	4.000	4.000
		10425-1-562		INLETS (DT BOT) (TYPE F) (>10')	EA	N	2.000	2.000
		10430-171-125		PIPE CULV(OPT MATL) (ROUND) (18"SS)	LF	N	46.000	46.000
		10430-171-129		PIPE CULV(OPT MATL) (ROUND) (24"SS)	LF	N	116.000	116.000
		10440-1-		UNDERDRAIN, TYPE SPECIAL (24")	LF	N	607.000	607.000
		10443-70-4		FRENCH DRAINS (ROADWAY)	LF	N	469.000	469.000
		10536-1-		GUARDRAIL	LF	N	438.000	438.000
		10536-73-		GUARDRAIL REMOVAL	LF	N	103.000	103.000
		10536-85-24		GUARDRAIL END ANCHORAGE ASSEMBLY PARALLEL (GROUND-IN) (16" MIN. WIDTH)	EA	N	4.000	4.000
		10546-72-51		RUMBLE STRIP (GROUND-IN) (BARIA)	PM	N	0.400	0.400
		10575-1-		ISODDING	SY	N	2930.000	2930.000
		10630-1-		CONDUIT (FURNISH & INSTALL) (UNDERGROUND)	LF	N	72.000	72.000
		10635-1-		PULL & JUNCTION BOXES (F&I) (PULL BOX)	EA	N	1.000	1.000
		10710-6-		DIRECTIONAL ARROWS, PAINTED	EA	N	87.000	87.000
		10710-7-		PAVT MESSAGE, PAINTED	EA	N	15.000	15.000
		10710-23-61		TRAFFIC STRIPE SOLID (WHITE/BLACK) (6")	NM	N	9.957	9.957

PROPERTY 05/08/03
PROPOSAL : E6A60
FINPROJ(S) : 40564615201
LEAD FINPROJ : 40564615201
COUNTY : MONROE
COUNTY/SECTION : 90060000
MANDIST: 06

P	ALT	ITEM	NUMBER	DESCRIPTION	IUN	IT	QUANTITY	TOTAL
S								
		10710-24-61		TRAFFIC STRIPE SOLID (YELLOW)	NM	N	12.768	12.768
		10710-25-81		TRAFFIC STRIPE SOLID (WHITE/BLACK) (6")	LF	N	1806.000	1806.000
		10710-25-181		TRAFFIC STRIPE SOLID (WHITE/BLACK) (18")	LF	N	1038.000	1038.000
		10710-25-241		TRAFFIC STRIPE SOLID (WHITE/BLACK) (24")	LF	N	210.000	210.000
		10710-26-181		TRAFFIC STRIPE SOLID (YELLOW) (18")	LF	N	2589.000	2589.000
		10710-27-		TRAFFIC STRIPE SKIP (WHITE/BLACK)	LF	N	1902.000	1902.000
		10710-28-		TRAFFIC STRIPE SKIP (YELLOW)	LF	N	324.000	324.000
		10741-70-111		TMS VEHICLE SENSOR(CLASS I I) (F&I) (TYP I) (1/2 LN)	EA	N	2.000	2.000
		10745-70-12		TMS INDUCTIVE LOOP ASSEM(F&I) (2 LOOPS/LN)	IAS	N	2.000	2.000
		10746-71-111		TMS CABINET(F&I) (TYPE III) (BASE MNT) (1 BACKPLANE)	EA	N	1.000	1.000
		10999-25-		INITIAL CONTINGENCY AMOUNT (DO NOT BID)	LS	N	1.000	1.000

PROPERTY 05/08/03
PROPOSAL : E6A60
FINPROJ(S) : 40564615201
LEAD FINPROJ : 40564615201
COUNTY : MONROE
COUNTY/SECTION : 90060000
MANDIST: 06

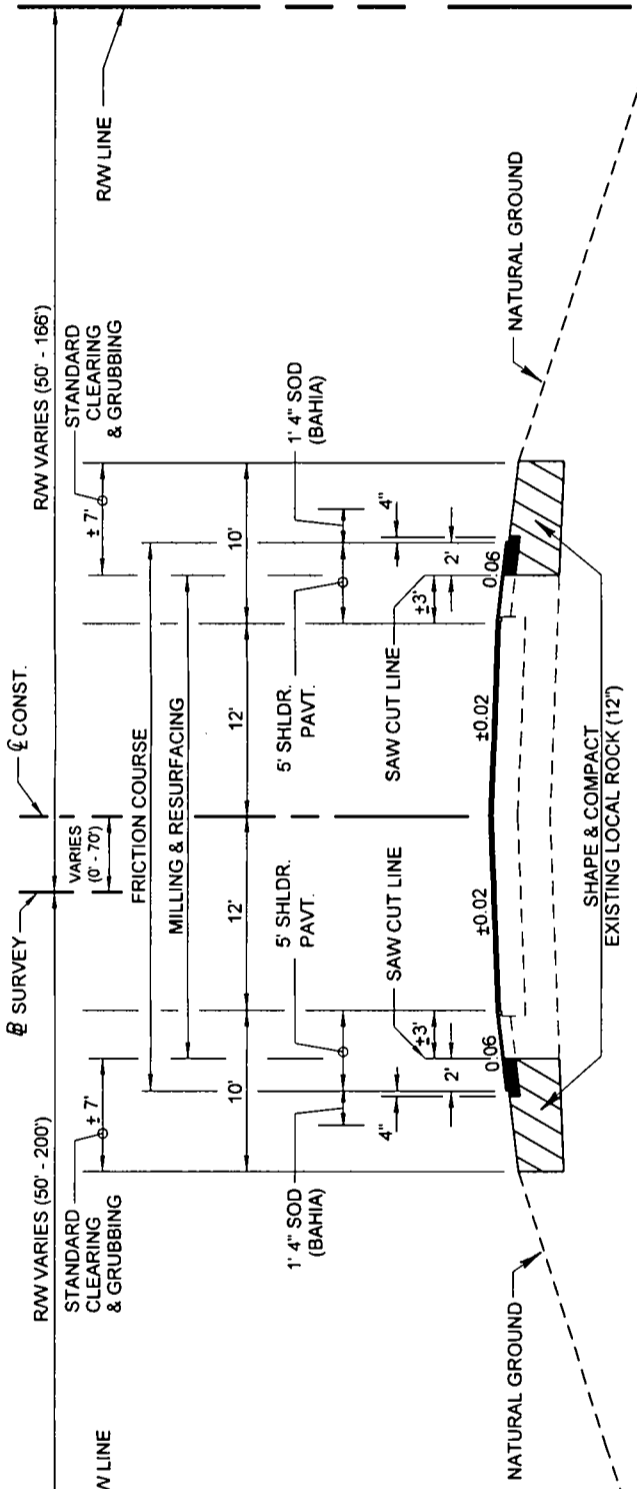
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S								
		10700-40-1		SIGN SINGLE POST (LESS THAN 12)	IAS	N	10.000	10.000
		10700-46-11		SIGN EXISTING (REMOVAL) (SINGLE POST)	IAS	N	2.000	2.000
		10705-71-		DELINEATOR TUBULAR (FLEXIBLE)	EA	N	147.000	147.000
		10706-3-		RETRO-REFLECTIVE PAVEMENT MARKERS	EA	N	720.000	720.000



ENGINEER OF RECORD:
AIP ENGINEERS
A&P Consulting Transportation Engineers Corporation
10005 NW 41 Street, Suite 115
Miami, FL 33176
(305) 593-1584 / Fax: (305) 593-1584
support@aipa.com

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO: SR-5
COUNTY: MONROE
FINANCIAL PROJECT ID: 405646-1-52-01



C.D. Oliver
5/5/04

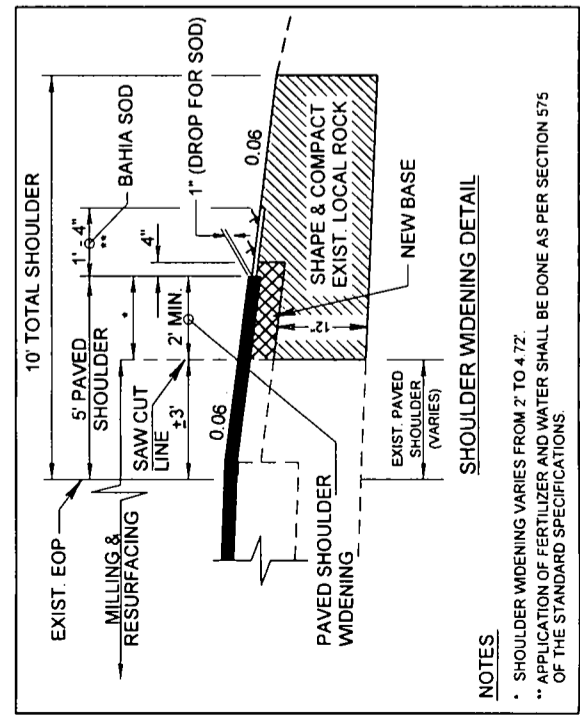
TRAFFIC DATA
CURRENT YEAR ESTIMATE = 2001 AADT = 21,000
OPENING YEAR ESTIMATE = 2003 AADT = 21,800
DESIGN YEAR ESTIMATE = 2023 AADT = 30,500
K = 9.5% D = 56.56% T = 5.42% (24 HOUR)
DESIGN SPEED = 55 MPH

TYPICAL SECTION
SR-5 (OVERSEAS HWY.)
STA. 47+12.00 TO STA. 49+26.40
STA. 73+97.08 TO STA. 134+30.00

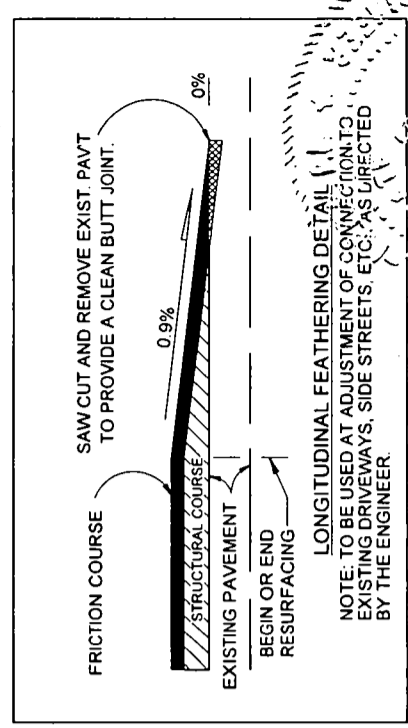
PAVEMENT DESIGN
MILLING AND RESURFACING

MILL 2" (AVG.) OF THE EXISTING ASPHALT CONCRETE PAVEMENT (INCLUDING PAVED SHOULDER).
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (150 LBS/SY)
AND FRICTION COURSE FC-5 (80 LBS/SY) (RUBBER).

WIDENING EXISTING PAVED SHOULDER
WIDEN EXISTING PAVED SHOULDER WITH (OPTIONAL BASE GROUP 04*).
TYPE 'SP' STRUCTURAL COURSE (TRAFFIC LEVEL C) (150 LBS/SY)
AND FRICTION COURSE FC-5 (80 LBS/SY) (RUBBER).
* OPTION PERMITTED: B-12.5 Optimum T.C. 12.5 used



NOTES
* SHOULDER WIDENING VARIES FROM 2' TO 4.7'.
** APPLICATION OF FERTILIZER AND WATER SHALL BE DONE AS PER SECTION 575 OF THE STANDARD SPECIFICATIONS.



TYPICAL SECTION NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE FIELD LOCATION AND LENGTH OF ANY NO PASSING ZONE. NO PASSING ZONES SHALL BE ESTABLISHED IN ACCORDANCE WITH SECTION 3B-3, 3B-4, AND 3B-5 OF THE CURRENT MUTCD AND CHAPTER II OF THE DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC STUDIES. THE CONTRACTOR'S PROPOSED METHOD OF ESTABLISHING NO PASSING ZONES MUST BE APPROVED IN ADVANCE OF CONSTRUCTION BY THE ENGINEER. THE COST OF ESTABLISHING THE NO PASSING ZONES SHALL BE CONSIDERED AS INCIDENTAL TO TRAFFIC STRIPING ITEMS INCLUDED IN THE CONTRACT.
- ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. CONTRACTOR MAY ELECT TO PLACE UNIFORM WIDTH BASE WIDENING STRIP AT NO ADDITIONAL COST.
- ALL STATIONS AND OFFSETS ARE GIVEN IN REFERENCE TO THE CENTERLINE OF CONSTRUCTION UNLESS OTHERWISE NOTED.

REVISIONS		DESCRIPTION		DATE	BY

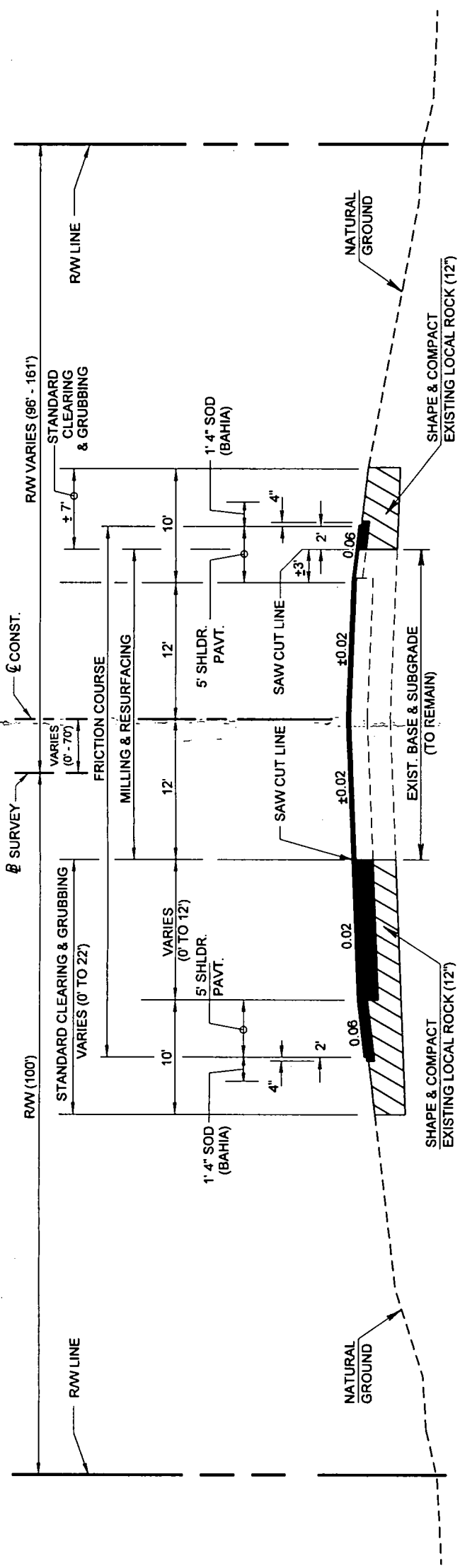
ENGINEER OF RECORD:		STATE OF FLORIDA		SHEET NO.	
A&P Consulting Transportation Engineers 10305 NW 41 Street, Suite 115 Miami, FL 33178 (305) 592-7283 / fax: (305) 593-1594 support@apct.com		DEPARTMENT OF TRANSPORTATION		3A	
ROAD NO. SR-5		COUNTY	MONROE	FINANCIAL PROJECT ID	
SR-5		405646-1-52-01		TYPICAL SECTION	
SR-5		SR-5 (OVERSEAS HWY.)			

Roadway - As-Built Pavement Data					
Date <u>4-19-04</u> Page No. <u>1 of 2</u>					
Fin. Project ID:	<u>405646-1-5201</u>	Material No.:	<u>1230</u>	Sample No.:	<u>0001V</u> Date Smpl: <u>4-19-04</u>
Station From:	<u>47+12</u>	Station To:	<u>134+30</u>	Rdwy Side:	<u>XC</u> Mainline: <u>Y</u>
Reference Line:	<u>♀</u> <u>N/A</u>	Source:	<u>07</u>	Plant No.:	<u>A0613</u> Quantity: <u>1 each</u>
Intended use:	<u>L-1 & R-1</u>	Inspection ID (TIN):	<u>J16217369</u>	<u>A53643380</u>	Date Recd: <u>5-6-04</u>
Date Tested:	<u>5-9-04</u>	Tested by code:	<u>WK</u>	Status:	<u>UN</u> Tester ID (TIN): <u>J16217369</u>

Pavement Information					
(Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
		Layer Code	<u>N/A</u>	<u>N/A</u>	<u>SP125C</u>
<u>2"</u>	Approx. Thickness in./mm	<u>N/A</u>	<u>N/A</u>	<u>1.5"</u>	<u>1"</u>

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:



TYPICAL SECTION

SR-5 (OVERSEAS HWY.)
STA. 49+26.40 TO STA. 64+41.82

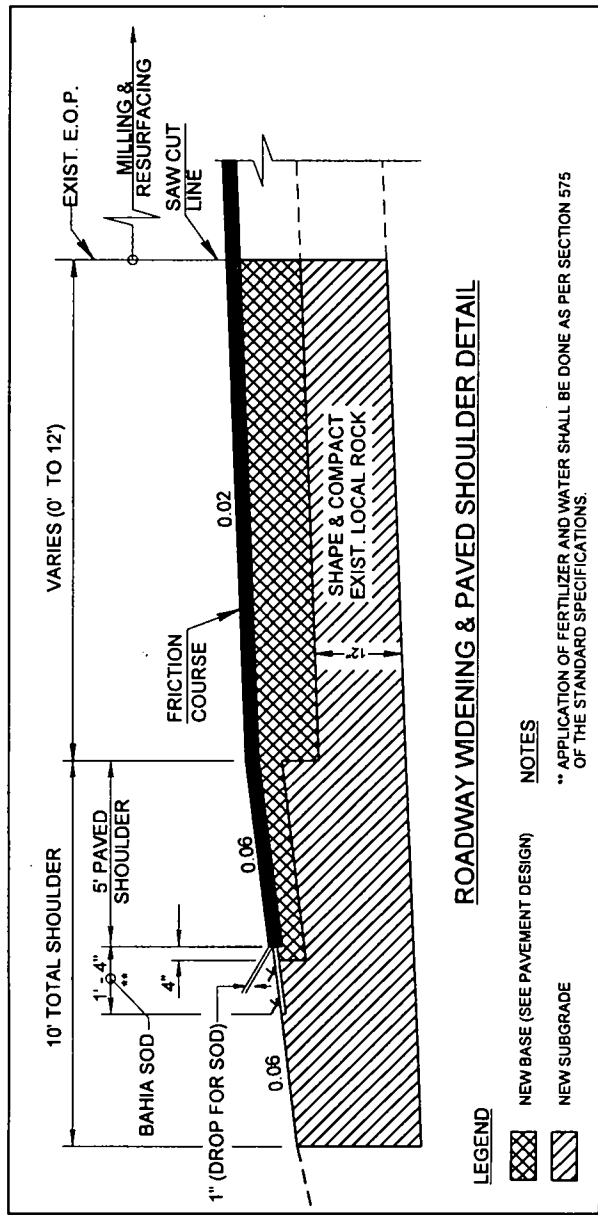
ROADWAY WIDENING

WIDEN EXISTING ROADWAY WITH (OPTIONAL BASE GROUP 09*),
TYPE 'SP' STRUCTURAL COURSE (TRAFFIC LEVEL C) (300 LBS/SY)
AND FRICTION COURSE FC-5 (80 LBS/SY) (RUBBER).

NEW SHOULDER CONSTRUCTION

CONSTRUCT NEW PAVED SHOULDER WITH (OPTIONAL BASE GROUP 04*),
TYPE 'SP' STRUCTURAL COURSE (TRAFFIC LEVEL C) (150 LBS/SY)
AND FRICTION COURSE FC-5 (80 LBS/SY) (RUBBER).

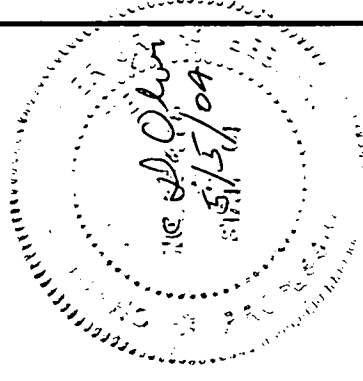
* OPTION PERMITTED: B-12.5
★ Option 11.C 12.5 used



ROADWAY WIDENING & PAVED SHOULDER DETAIL

LEGEND
 [Cross-hatched] NEW BASE (SEE PAVEMENT DESIGN)
 [Diagonal lines] NEW SUBGRADE

NOTES
 ** APPLICATION OF FERTILIZER AND WATER SHALL BE DONE AS PER SECTION 575 OF THE STANDARD SPECIFICATIONS.



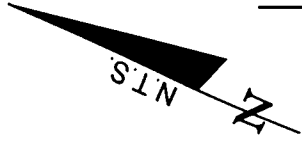
DATE		DESCRIPTION		DATE		BY		REVISIONS		
02-26-04		CGM		REVISED PAVEMENT DESIGN FOR SHOULDER AREA						
ENGINEER OF RECORD:				STATE OF FLORIDA				TYPICAL SECTION		SHEET NO.
A&P Consulting Transportation Engineers 10005 NW 41 Street, Suite 115 Miami, FL 33178 (305) 592-7283 / fax: (305) 593-1594 support@apcte.com				DEPARTMENT OF TRANSPORTATION				SR-5 / US-1 (OVERSEAS HWY.)		3B
				ROAD NO.		COUNTY		FINANCIAL PROJECT ID		
				SR-5		MONROE		405646-1-52-01		

Roadway - As-Built Pavement Data					
Date <u>4-19-04</u> Page No. <u>2 of 2</u>					
Fin. Project ID:	<u>405646-1-52-01</u>	Material No.:	<u>1230</u>	Sample No.:	<u>0002V</u>
				Date Smpl:	<u>4-19-04</u>
Station From:	<u>47+12</u>	Station To:	<u>134+30</u>	Rdwy Side:	<u>C</u>
				Mainline:	<u>Y</u>
Reference Line:	<u>N/A</u>	Source:	<u>07</u>	Plant No.:	<u>A0613</u>
				Quantity:	<u>1 each</u>
Intended use:	<u>L-1 & R-1</u>	Inspec ID (TIN):	<u>A536A3380</u>	Date Recd:	<u>5-6-04</u>
Date Tested:	<u>5-9-04</u>	Tested by code	<u>6K</u>	Status:	<u>UN</u>
				Tester ID (TIN):	<u>J16217369</u>

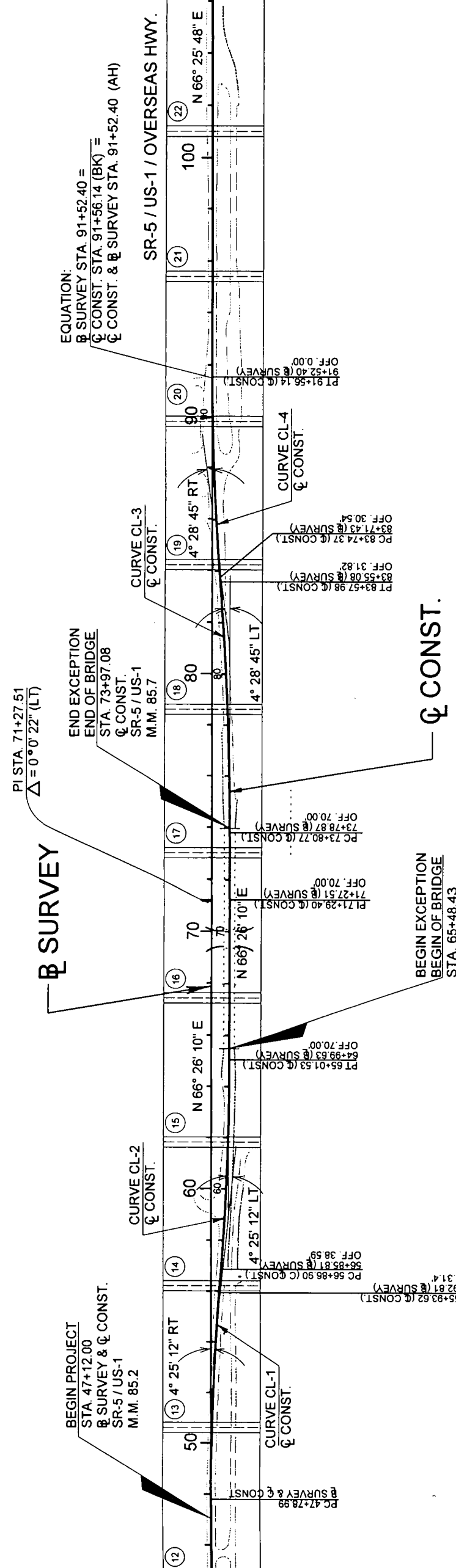
Pavement Information					
(Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
		Layer Code	<u>N/A</u>	<u>B125C</u>	<u>SP125C</u>
<u>N/A</u>	Approx. Thickness in./mm	<u>N/A</u>	<u>9"</u>	<u>3"</u>	<u>1"</u>

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:



MATCH LINE 112+20.00



EQUATION:
 \bar{x} SURVEY STA. 91+52.40 =
 \bar{y} CONST. STA. 91+56.14 (BK) =
 \bar{z} CONST. & \bar{w} SURVEY STA. 91+52.40 (AH)

PI STA. 71+27.51
 $\Delta = 0^{\circ} 0' 22''$ (LT)

\bar{x} SURVEY

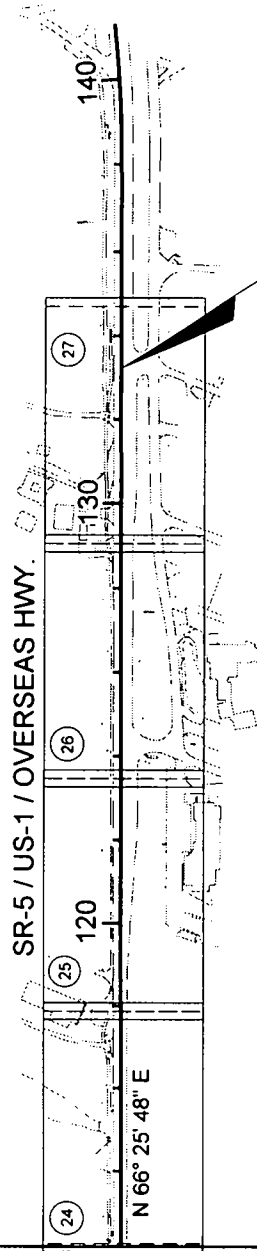
BEGIN PROJECT
 STA. 47+12.00
 \bar{x} SURVEY & \bar{y} CONST.
 SR-5 / US-1
 M.M. 85.2

END EXCEPTION
 END OF BRIDGE
 STA. 73+97.08
 \bar{x} CONST.
 SR-5 / US-1
 M.M. 85.7

BEGIN EXCEPTION
 STA. 65+48.43
 \bar{x} CONST.
 SR-5 / US-1
 M.M. 85.5

\bar{y} CONST.

MATCH LINE 112+20.00



END PROJECT
 STA. 134+30.00
 \bar{x} SURVEY & \bar{y} CONST.
 SR-5 / US-1
 M.M. 86.9

CURVE DATA
CURVE CL-1 (\bar{y} CONST.)
 PI STA. = 51+86.51
 Delta = 4° 25' 12" (RT)
 D = 0° 32' 33"
 T = 407.52'
 L = 814.63'
 R = 10,560.00'
 PC STA. = 47+78.99
 PT STA. = 55+93.62
 e = N.C.

CURVE DATA
CURVE CL-2 (\bar{y} CONST.)
 PI STA. = 60+94.41
 Delta = 4° 25' 12" (LT)
 D = 0° 32' 33"
 T = 407.52'
 L = 814.63'
 R = 10,560.00'
 PC STA. = 56+86.90
 PT STA. = 65+01.53
 e = N.C.

CURVE DATA
CURVE CL-3 (\bar{y} CONST.)
 PI STA. = 78+69.63
 Delta = 4° 28' 45" (LT)
 D = 0° 27' 30"
 T = 488.85'
 L = 977.21'
 R = 12,500.00'
 PC STA. = 73+80.77
 PT STA. = 83+57.98
 e = N.C.

CURVE DATA
CURVE CL-4 (\bar{y} CONST.)
 PI STA. = 87+65.45
 Delta = 4° 28' 45" (RT)
 D = 0° 24' 23"
 T = 391.08'
 L = 781.76'
 R = 10,000.00'
 PC STA. = 83+74.37
 PT STA. = 91+56.14
 e = N.C.

Handwritten signature: Bob M. G. - here
 03/28/03

REVISIONS		ENGINEER OF RECORD:		STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION		SR-5 / US-1 PROJECT LAYOUT		SHEET NO. 5	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
						SR-5	MONROE	405846-1-52-01			
			A&P ENGINEERS A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Fort Lauderdale, FL 33322 (954) 551-4321 Fax: (954) 593-1594 support@aapctr.com								

GENERAL NOTES

- B.M. DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD-29)
- ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYOR PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE AND RESTORE UPON COMPLETION OF THE WORK. ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE DISTRICT LOCATION ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. INCLUDE ALL COST OF REFERENCING, RESTORING AND PRESERVING IN THE BID PRICE FOR ITEM 101-1 MOBILIZATION.
- ALL N.G.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS EXCEPT THAT THE LAND SURVEYORS SHALL NOT BE REQUIRED TO RESTORE THE N.G.V.D. BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE DISTRICT LOCATION SURVEYOR, WHO SHALL NOTIFY THE GEODETIC INFORMATION CENTER. INCLUDE ALL COST OF REFERENCING AND PROTECTING IN THE BID PRICE FOR ITEM 101-1 MOBILIZATION.
- ALL EXCESS MATERIAL AS DESIGNATED BY THE ENGINEER IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEARING AND SWEEPING IS TO BE INCLUDED IN ITEM 102-1 MAINTENANCE OF TRAFFIC.
- THE CONTRACTOR SHALL PAINT ALL STATIONS WITH STENCILED NUMBERS ON THE FACE OF THE CURB:
 - FROM THE BEGINNING OF THE PROJECT WHERE THE CURB IS TO REMAIN
 - AT NEW CURB NOT LATER THAN 72 HOURS AFTER BEING POURED
 - WHERE CURB DOES NOT EXIST AND SHALL NOT BE CONSTRUCTED THE CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES
 THE CONTRACTOR WILL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION. COST TO BE INCLUDED IN RELATED PAY-ITEM 102-1 MAINTENANCE OF TRAFFIC.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMESTONE, DEBRIS, ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST.
- MOVING SHALL BE APPLIED FOR ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY GRASSING UNTIL THE PROJECT IS COMPLETED. COST TO BE INCLUDED IN 104-4, MOWING.
- THE CONTRACTOR SHALL PERFORM SELECTIVE CLEARING AND GRUBBING FOR THE WORK BEING DONE. COST TO BE INCLUDED IN 110-1-1, CLEARING AND GRUBBING.
- CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONCRETE PLANTS IN MONROE COUNTY DO NOT REMAIN IN CONTINUOUS F.D.O.T. CERTIFICATION. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE AVAILABILITY OF ALL CLASSES OF CONCRETE DESIGN MIXES REQUIRED FOR THE PROJECT AND DELIVERY TIMES PRIOR TO BIDDING. ANY COST ASSOCIATED WITH PLANT CERTIFICATION SHALL BE INCLUDED IN THE APPROPRIATE CONCRETE BID ITEM.

SHOULDER GROUND-IN RUMBLE STRIP CONSTRUCTION

- CONSTRUCT SHOULDER GROUND-IN RUMBLE STRIPS AS PER INDEX 518, SHEET 2 OF 2, FROM STA. 93+50.00 (LT) TO STA. 107+80.00 (LT) AND FROM STA. 119+20.00 (LT) TO STA. 127+40.00 (LT). COST TO BE INCLUDED IN ITEM 546-72-51, RUMBLE STRIP.

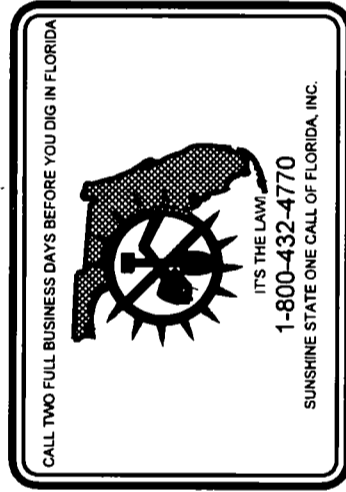
UTILITIES NOTES:

- FOR UTILITY ADJUSTMENT SYMBOLS, SEE STANDARD INDEX NO. 002.
- ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED
- TWO FULL BUSINESS DAYS PRIOR TO DIGGING THE CONTRACTOR SHALL CALL SHUNSHINE STATE ONE CALL OF FLORIDA, TELEPHONE NUMBER 1-800-432-4770, AND THE UTILITY OWNER AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
- THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
- PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS, SLAB COVERED TRENCHES, CONDUITS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION. THE CONTRACTOR SHALL PROVIDED UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH A SEVEN DAYS ADVANCE NOTICE OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE.

UTILITY OWNERS:

BELLSOUTH
FLORIDA KEYS AQUEDUCT AUTHORITY
AT & T BROADBAND
FLORIDA KEYS ELECTRIC COOPERATIVE
COUNTY OF MONROE (ENG. DEPT.)

TEL. (305) 260-8243
TEL. (305) 296-2454
TEL. (305) 477-8881
TEL. (305) 852-2431
TEL. (305) 292-4426



ENVIRONMENTAL / EROSION CONTROL NOTES:

- FOR MILLING OPERATIONS, DUST AND DEBRIS CONTAINMENT MEASURES SHALL INCLUDE THE USE OF A STREET SWEEPER OR VACUUM TRUCK TO REMOVE RESIDUE FROM MILLED SURFACES PRIOR TO RESURFACING. THE USE OF BROOM MACHINE WILL NOT BE PERMITTED.
- NO DEGRADATION OF WATER QUALITY AND/OR INCREASED TURBIDITY OF THE WATER SHALL BE PERMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING THE DISCHARGE OF ANY FOREIGN MATERIAL INTO THE WATER. THE CONTRACTOR SHALL ERECT THE BEST AVAILABLE MEANS OF EROSION CONTROL MEASURES TO ISOLATE THE WORK AREA AT ALL TIMES. THESE MEASURES SHALL BE MAINTAINED FUNCTIONAL FOR THE DURATION OF THE PROJECT.
- NO STAGING OR OTHER CONSTRUCTION ACTIVITIES WILL BE ALLOWED BEYOND THE OUTSIDE EDGE OF THE ASPHALT BIKE PATH BETWEEN STATION 92+70 TO 107+90 LT.
- NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT WILL BE ALLOWED WITHIN ADJACENT WETLAND AND UPLAND HARDWOOD HAMMOCK AREAS. REVIEW OF THE CONTRACTOR'S PROPOSED STAGING AREA SHALL BE COORDINATED WITH THE DISTRICT PERMITS COMPLIANCE MONITOR DURING THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE DISTRICT PERMITS COMPLIANCE MONITOR AT (305) 470-5220 SEVENTY-TWO (72) HOURS PRIOR TO THE START OF ANY PRE-APPROVED STAGING ACTIVITIES. FOR UNFORESEEN STAGING NEEDS IDENTIFIED AFTER THE PRE-CONSTRUCTION MEETING, REVIEW OF THE CONTRACTOR'S PROPOSED STAGING AREAS SHALL BE COORDINATED WITH THE DISTRICT PERMITS COMPLIANCE MONITOR PRIOR TO ANY STAGING OPERATION.
- ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
- THE CONTRACTOR MUST BE AWARE THAT A NUMBER OF WILDLIFE SPECIES, SOME OF WHICH ARE LISTED AS EITHER ENDANGERED OR THREATENED BY THE U.S. FISH AND WILDLIFE SERVICE (USFWS) (FEDERAL) AND/OR THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) (STATE), COULD INHABIT OR MIGRATE THROUGH COMMUNITIES DIRECTLY ADJACENT TO THE PROJECT CORRIDOR. DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED AND THREATENED SPECIES.
- ALL TREES WITHIN AND OUTSIDE THE PROJECT LIMITS ARE TO REMAIN. THE CONTRACTOR SHALL TAKE CARE TO PROTECT ALL TREES FROM DAMAGES. THE CONTRACTOR SHALL NOT REMOVE ANY TREES AS PART OF CLEARING AND GRUBBING.
- CAUTION SHOULD BE USED IN THE FERTILIZER APPLICATION TO THE SOD. APPLICATION MUST ONLY OCCUR TO THE SOD AND NOT TO THE ADJACENT WETLAND VEGETATION.
- IN THE VICINITY OF THE WEIGH STATION (APPROXIMATELY STATION 88+40 TO 100+00 RT.), THERE IS AN EMBANKMENT/BERM CONTAINING CORAL OUTCROPPINGS AND HARDWOOD HAMMOCK TREES IN CLOSE PROXIMITY TO THE SR5 PAVEMENT. ALL CONSTRUCTION ACTIVITIES BETWEEN THE ABOVE STATIONS ARE TO BE CONDUCTED WITHOUT DAMAGE TO TREES AND EMBANKMENT. AT LEAST 72 HOURS PRIOR TO WORKING IN THIS AREA, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WHO SHALL COORDINATE WITH THE DISTRICT ENVIRONMENTAL COMPLIANCE MONITOR AT (305) 470-5220 SO THE PROPOSED WORK METHOD FOR THIS AREA CAN BE REVIEWED.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT A PROJECT AREA HAS BEEN IDENTIFIED AS BEING POTENTIALLY CONTAMINATED. THIS AREA IS AS FOLLOWS:
S-01 (INLET PIPE) AT STA. 78+00.00
S-02 (INLET) AT STA. 78+00.00
SOLID PIPE FROM STA. 78+00.00 TO S-03 AT STA. 79+00.00
THE DEPARTMENT WILL HAVE A QUALIFIED INDIVIDUAL AND/OR A CONTAMINATION ASSESSMENT AND REMEDIATION CONTRACTOR WORKING UNDER A SEPARATE CONTRACT, PERFORM MONITORING DURING CONSTRUCTION ACTIVITIES IN THIS AREA. IN THE EVENT THAT CONTAMINATION IS IDENTIFIED, THE CONTRACTOR IS REQUIRED TO ADHERE TO APPLICABLE FDOT SPECIFICATIONS FOR UNIDENTIFIED AREAS OF CONTAMINATION.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE WETLAND AREA BETWEEN STA. 92+90.00 (LT) AND STA. 97+00.00 (LT) WHERE SHOULDER WIDENING TO THE EDGE OF THE EXISTING BIKEPATH IS PROPOSED. ROCK BAGS COULD BE PLACED ON THE BACK SIDE OF THE BIKE PATH TO PREVENT EROSION AND KEEP SILT FROM WASHING INTO THE ADJACENT WETLAND. COST TO BE INCLUDED IN RELATED PAY ITEM 104-16, ROCK BAGS.

- AFTER THE PAVEMENT HAS BEEN MILLED, ANY EXPOSED VOIDS SHALL BE FILLED WITH 20-30 SAND. THE 20-30 SAND SHALL MEET THE GRADATION REQUIREMENTS IN TABLE 1 OF ASTM C 778 FOR 20-30 SAND. THE TEST FOR AIR ENTRAINING POTENTIAL OF SAND SHALL NOT BE CAUSE FOR REJECTION, NOR SHALL THE SOURCES OF SAND BE LIMITED TO OTTAWA, IL OR LESUER, MN. THE 20-30 SAND MAY BE SUPPLIED IN EITHER BAG OR BULK FORM. ANY VOIDS THAT OPEN DURING THE COMPACTION OPERATIONS SHALL ALSO BE FILLED WITH THE SAME MATERIAL.

- ALL AREAS OF THE MILLED ASPHALT SHALL BE COMPACTED WITH 5 PASSES OF A VIBRATORY ROLLER. THE ROLLER SHALL HAVE A DRUM DIAMETER AS LARGE AS POSSIBLE BUT IN NO CASE SHALL THE DRUM BE LESS THAN 5 FEET IN DIAMETER. THE STATIC WEIGHT SHALL BE NOT LESS THAN 20,000 POUNDS.

- A LAYER OF REINFORCING MATERIAL WITH THE SPECIFICATION AS SHOWN BELOW SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS ON THE EXPOSED ASPHALT SURFACE. THIS REINFORCING MATERIAL IS TO BE PLACED FROM STA. 73+98.08 TO STA. 84+50.00 AND SHALL OVERLAP BY A MINIMUM OF 2 FEET ALONG THE CENTERLINE OF US-1 BETWEEN THE NORTH AND SOUTHBOUND LANES. THE MATERIAL SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:

BREAKING LOAD:
ROUNDWIRE: MIN 405 LBS.
FLAT BAR OR TRANSVERSE ROD: MIN 2,100 LBS
TENSILE STRENGTH OF THE MESH:
LONGITUDINAL: 2,500 LBS/FT
TRANSVERSE: 3,000 LBS/FT
MODULUS OF ELASTICITY: 29,000,000 PSI

- PAVING OPERATIONS SHALL THEN BE INITIATED TO BRING THE ROADWAY SECTION TO THE PROPOSED FINISHED GRADE.

*Paul M. G...
05/10/03*

REVISIONS		DESCRIPTION	DATE	BY

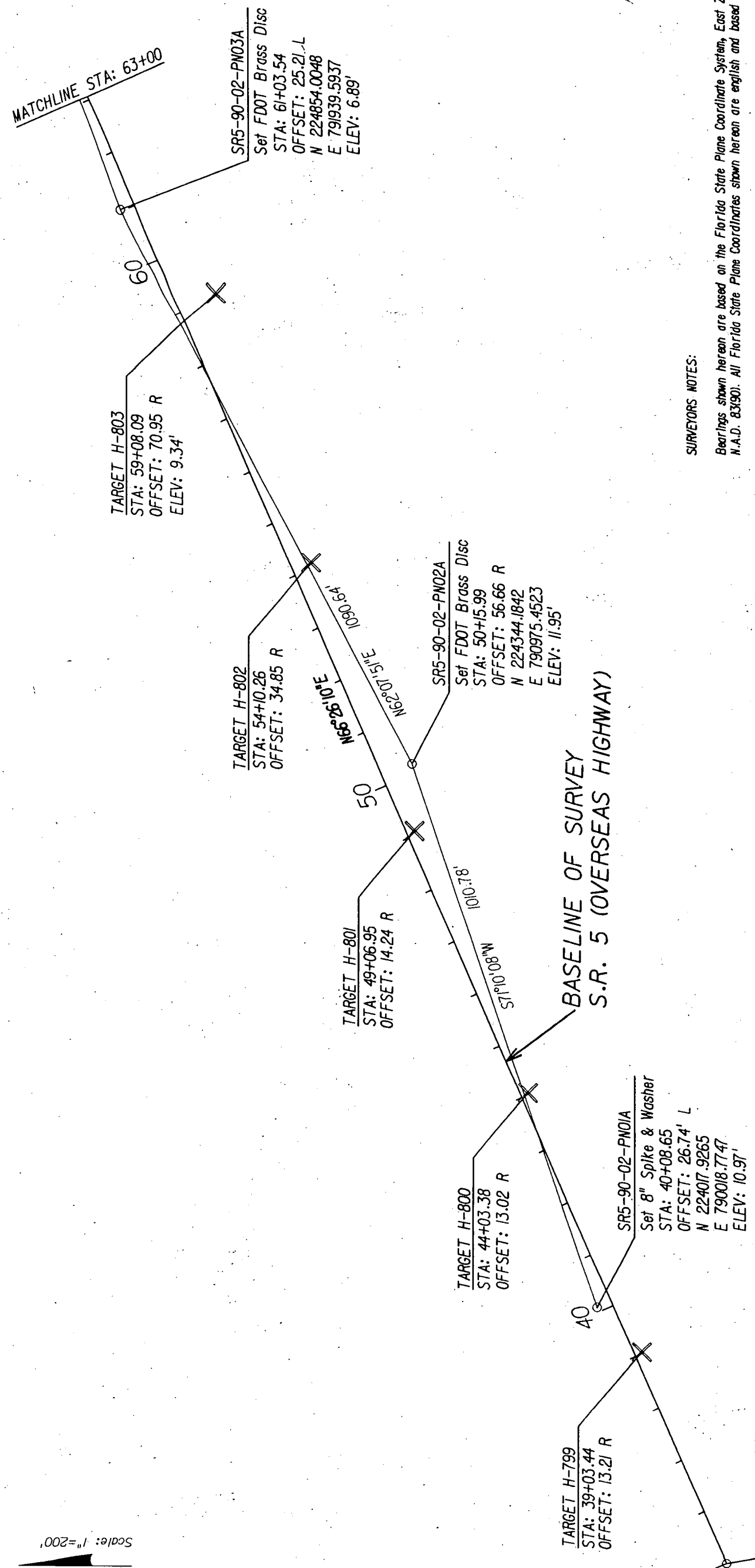
ENGINEER OF RECORD:
A&P ENGINEERS
A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, Suite 115
Miami, FL 33178
(305) 596-0000 / Fax: (305) 593-1594
http://www.aandp.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. SR-5
COUNTY MONROE
FINANCIAL PROJECT ID 405646-1-52-01

SHEET NO. 6

GENERAL NOTES

NORTH
Scale: 1"=200'



**BASELINE OF SURVEY
S.R. 5 (OVERSEAS HIGHWAY)**

BEGINNING OF SURVEY BASELINE
STA: 35+00.00
N 223790.0757
E 789563.2250

TARGET H-800
STA: 44+03.38
OFFSET: 13.02 R

SR5-90-02-PN01A
Set 8" Spike & Washer
STA: 40+08.65
OFFSET: 26.74' L
N 224017.9265
E 790018.7747
ELEV: 10.97'

TARGET H-801
STA: 49+06.95
OFFSET: 14.24 R

TARGET H-802
STA: 54+10.26
OFFSET: 34.85 R

SR5-90-02-PN02A
Set FDOT Brass Disc
STA: 50+15.99
OFFSET: 56.66 R
N 224344.1842
E 790975.4523
ELEV: 11.95'

TARGET H-803
STA: 59+08.09
OFFSET: 70.95 R
ELEV: 9.34'

SR5-90-02-PN03A
Set FDOT Brass Disc
STA: 61+03.54
OFFSET: 25.21 L
N 224854.0048
E 791939.5937
ELEV: 6.89'

MATCHLINE STA: 63+00

SURVEYORS NOTES:

Bearings shown hereon are based on the Florida State Plane Coordinate System, East Zone (1983), N.A.D. 83(90). All Florida State Plane Coordinates shown hereon are english and based on same.

Control point GPS 34 was tied to the PNC traverse and GPS 35 was included as part of the network.

GPS 34 & 35 were held fixed (This resulted in the positions of the targets south of state creek to be substantially in agreement with each other) and a best fit with the targets north of state creek was utilized. This was done in an attempt to maintain continuity with all of the work previously performed within this area.

Elevations are referred to N.G.V. DATUM (1929). Elevations are based on a benchmark provided by the F.D.O.T. The same being a brass disc in concrete base of anchor at Treasure Village Staps & Cafe. Stamped K276. Elevation 8.18 feet N.G.V.D. (1929)

Conversions for latitude, longitude, scale factor and convergence, from state plane coordinates was calculated using Corpcor version 5.11.08.

This Primary Network is along S.R. 5 (Overseas Highway) from station 35+00 to station 138+12.86.

The baseline of survey was supplied by F.D.O.T. In a digital format along with the location of the aerial targets.

Baseline was revised per F.D.O.T. comments on April 2, 2003.

SURVEYORS CERTIFICATION:

I hereby certify that this Control Survey was made for the purpose of surveying, referencing, describing and mapping the primary network control and/or baseline for the transportation facility shown and depicted hereon, and the said survey was done under my responsible charge and meets the minimum technical standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6 Florida Administrative Code pursuant to section 472.027 Florida Statutes. This drawing, consisting of sheets 1 through 4 is a true, accurate and complete depiction of the results of a field survey performed under my direction, and completed on December 5, 2002.

John Lipiak
John Lipiak
Florida Professional Surveyor and Mapper No. 5664
3162 Coral Way
Miami, Florida 33145
Date: December 5, 2002

NOT VALID UNLESS SIGNED AND EMBOSSED WITH SURVEYORS SEAL

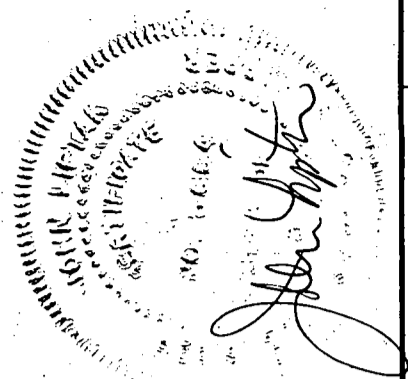
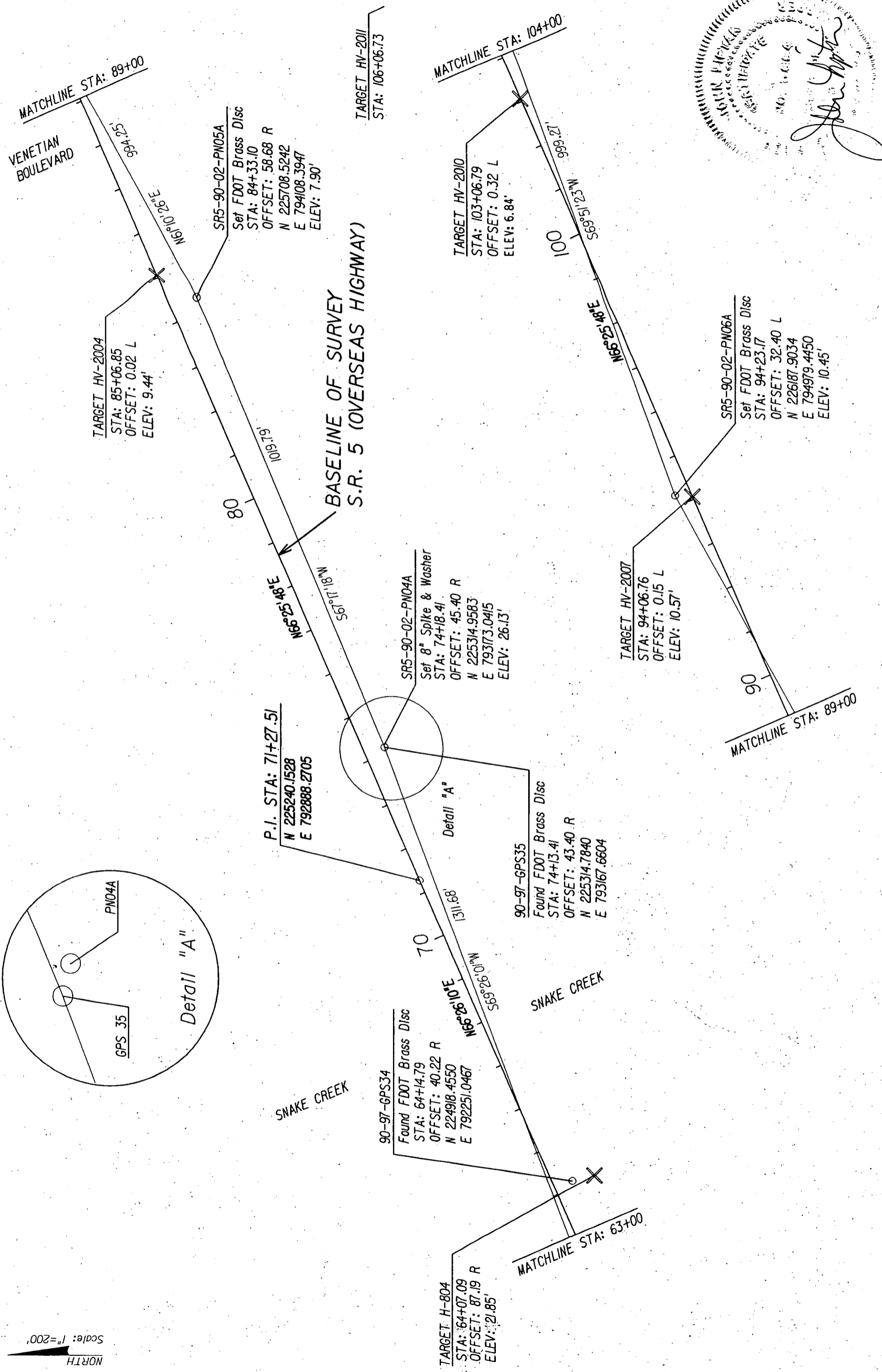
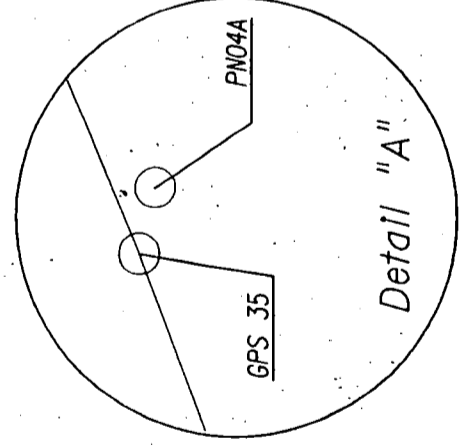
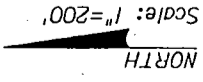
REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

E.R. Brownell & Associates, Inc.

3152 Coral Way
Miami, Florida 33145
305 446-3511
305 444-2034 (FAX)
SM-1563

STATE OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY
5	MONROE
FINANCIAL PROJECT ID	
405646-152-01	

PRIMARY NETWORK CONTROL	
SHEET	
NO.	
8	



REVISIONS		DESCRIPTION		DATE		BY	

E.R. Brownell & Associates, Inc.		STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION		ROAD NO.		COUNTY		MONROE		FINANCIAL PROJECT ID		405646-152-01	
3152 Carol Way Miami, Florida 33145 305 446-3511 305 444-2034 (FAX)						5		MONROE							

PRIMARY NETWORK CONTROL SHEET		SHEET NO.	
		9	

Scale: 1"=200'
NORTH

MATCHLINE STA: 132+00

TARGET HV-2019
STA: 130+06.60
OFFSET: 0.50 L

TARGET HV-2018
STA: 127+06.63
OFFSET: 0.58 L

TARGET HV-2016
STA: 121+06.71
OFFSET: 0.57 L

TARGET HV-2014
STA: 115+06.70
OFFSET: 0.47 L

TARGET HV-2013
STA: 112+06.69
OFFSET: 0.44 L

TARGET HV-2011
STA: 106+06.73
OFFSET: 0.35 L

MATCHLINE STA: 104+00

SR5-90-02-PN07A
Set 8" Spike & Washer
STA: 104+20.65
OFFSET: 27.33 R
N 226532.0233
E 795917.5879
ELEV: 5.90'

SR5-90-02-PN08A
Set 8" Spike & Washer
STA: 114+91.16
OFFSET: 35.76 L
N 227017.9108
E 796873.5586
ELEV: 6.02'

MATCHLINE STA: 132+00

SR5-90-02-PN10A
Set FDOT Brass Disc
STA: 136+55.87
OFFSET: 30.32 L
N 227878.5228
E 798859.8449
ELEV: 9.87'

TARGET HV-2022
STA: 138+19.40
OFFSET: 0.27 L

END OF SURVEY BASELINE
STA: 138+21.14
N 227916.7609
E 799021.8591

SR5-90-02-PN11A
Set FDOT Brass Disc
N 228351.6994
E 799812.3377
ELEV: 5.43'

BASELINE OF SURVEY
S.R. 5 (OVERSEAS HIGHWAY)

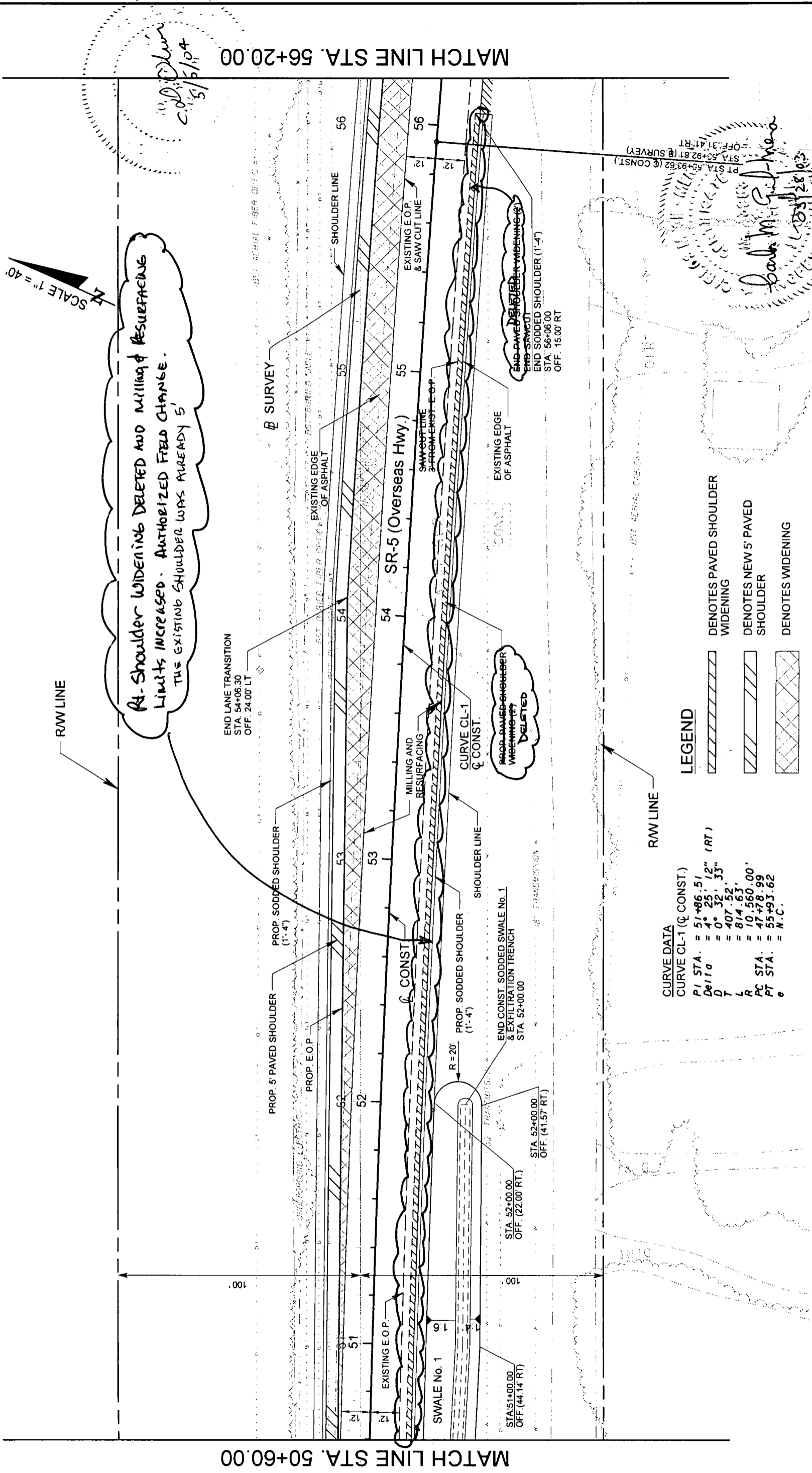


REVISIONS		DESCRIPTION		DATE		BY	

E.R. Brownell & Associates, Inc.		STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION		SHEET NO. 10	
3152 Coral Way Miami, Florida 33145 305 446-3511 305 444-2834 (FAX)		COUNTY		FINANCIAL PROJECT ID		PRIMARY NETWORK CONTROL SHEET	
SM-1563		MONROE		405646-152-01		ROAD NO. 5	

SCALE 1" = 40'

At Shoulder Widening Deleted and Milling & Resurfacing Limits Increased. Authorized Field Change. This existing shoulder was already 5'



MATCH LINE STA. 50+60.00

MATCH LINE STA. 56+20.00

CURVE DATA
 CURVE CL-1 (Q CONST.)
 P I STA. = 51+86.51
 De I I a = 4° 25' 12" (RT)
 D = 0° 32' 33"
 T = 407.52'
 L R = 814.63'
 PC STA. = 10.560.00'
 PT STA. = 47+78.99'
 e = 55+93.62' = N.C.

LEGEND

- DENOTES PAVED SHOULDER WIDENING
- DENOTES NEW 5' PAVED SHOULDER
- DENOTES WIDENING

PROP. PAVED SHOULDER WIDENING DELETED

END PAVED SHOULDER WIDENING DELETED
 END SAWCUT
 END SODDED SHOULDER (1'-4")
 STA. 56+08.00
 OFF. 15.00 RT

PT STA. 55+93.62 (Q CONST.)
 STA. 55+92.81 (Q SURVEY)
 OFF. 31.41 RT
 Date: M. G. J. - Mo. 12/28/03

REVISIONS		DESCRIPTION		DATE		BY	

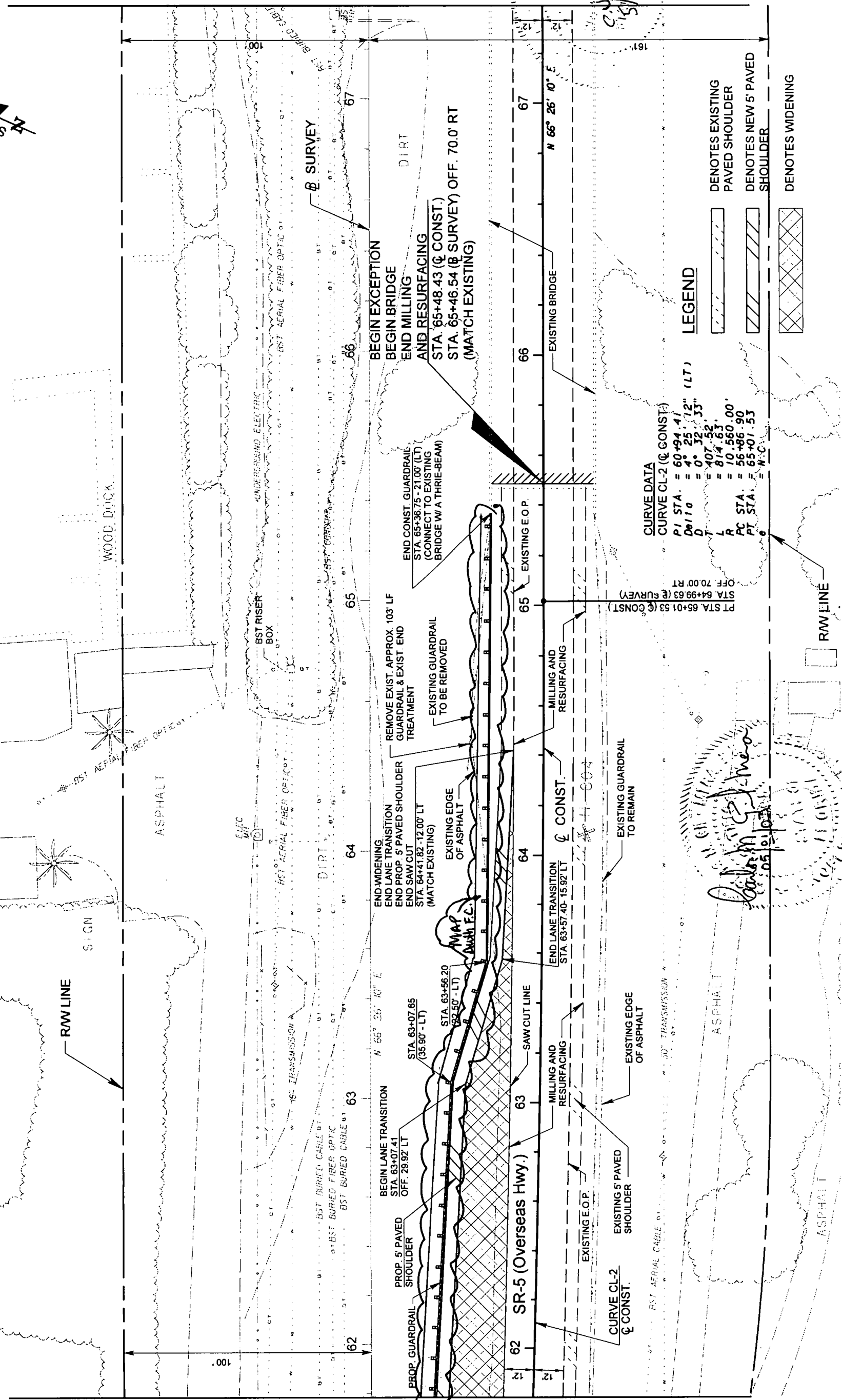
ENGINEER OF RECORD:		STATE OF FLORIDA	
A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Miami, FL 33178 Tel: (305) 593-1594 support@apc.com		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

SR-5 / US-1	SHEET NO.
ROADWAY PLAN	13



MATCH LINE STA. 61+80.00

MATCH LINE STA. 67+40.00



CURVE DATA
 CURVE CL-2 (Q CONST.)
 PI STA. = 60+94.41
 Del10 = 4° 25' 12" (LT)
 D = 0° 32' 33"
 T = 407.52'
 L = 814.63'
 R = 10,560.00'
 PC STA. = 56+86.90
 PT STA. = 65+01.53
 e = N.C.

LEGEND

- DENOTES EXISTING PAVED SHOULDER
- DENOTES NEW 5' PAVED SHOULDER
- DENOTES WIDENING

C. J. O'Brien
 5/15/04

David G. Mc...
 05/10/04

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

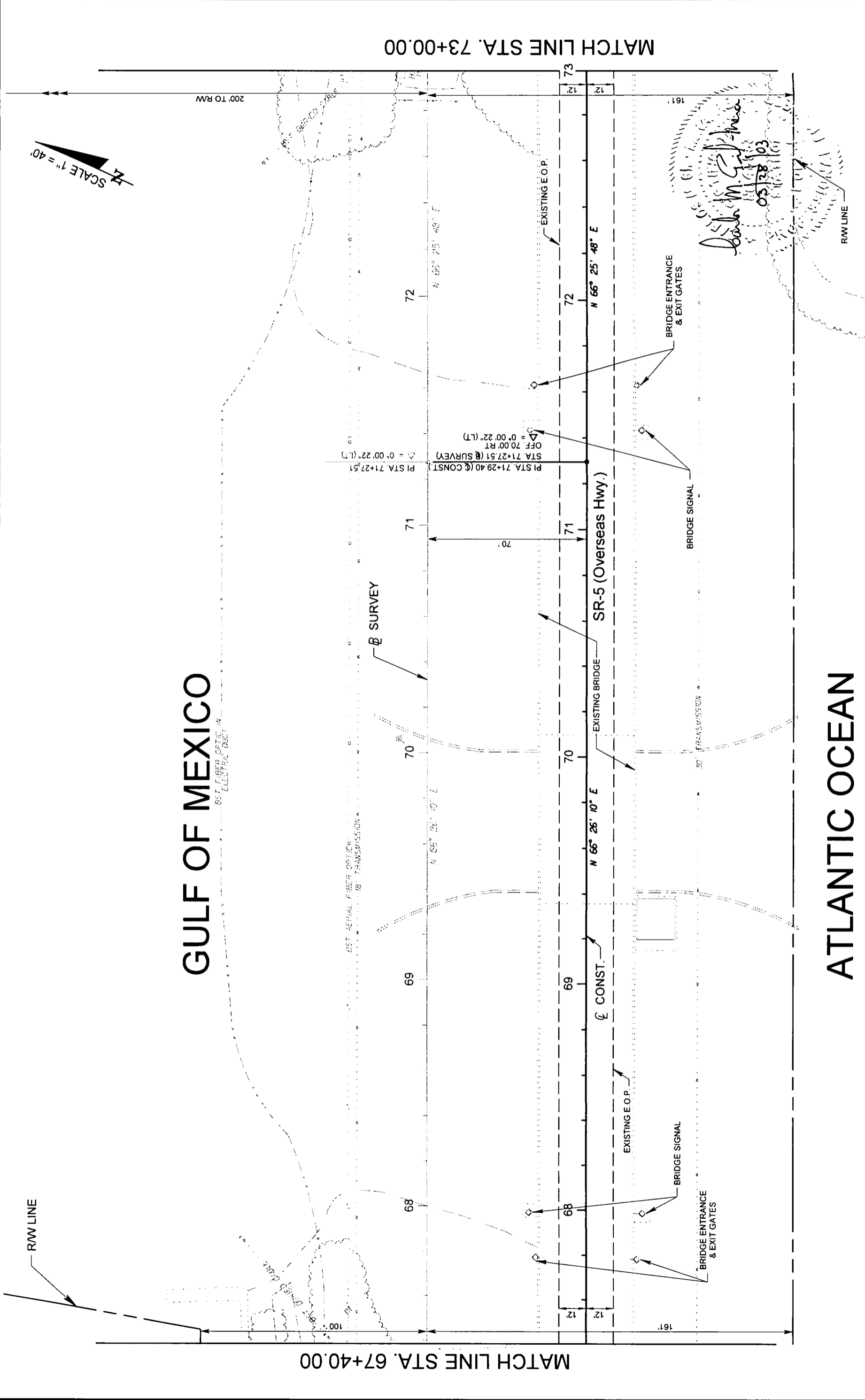
STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
SR-5 / US-1		ROADWAY PLAN	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

ENGINEER OF RECORD:		A&P Consulting Transportation Engineers Corporation	
		0305 N.W. 41 Street, suite 115 (305) 59-APCTE / fax (305) 593-1594 support@apcte.com	

SHEET NO.	15
-----------	----

GULF OF MEXICO

ATLANTIC OCEAN



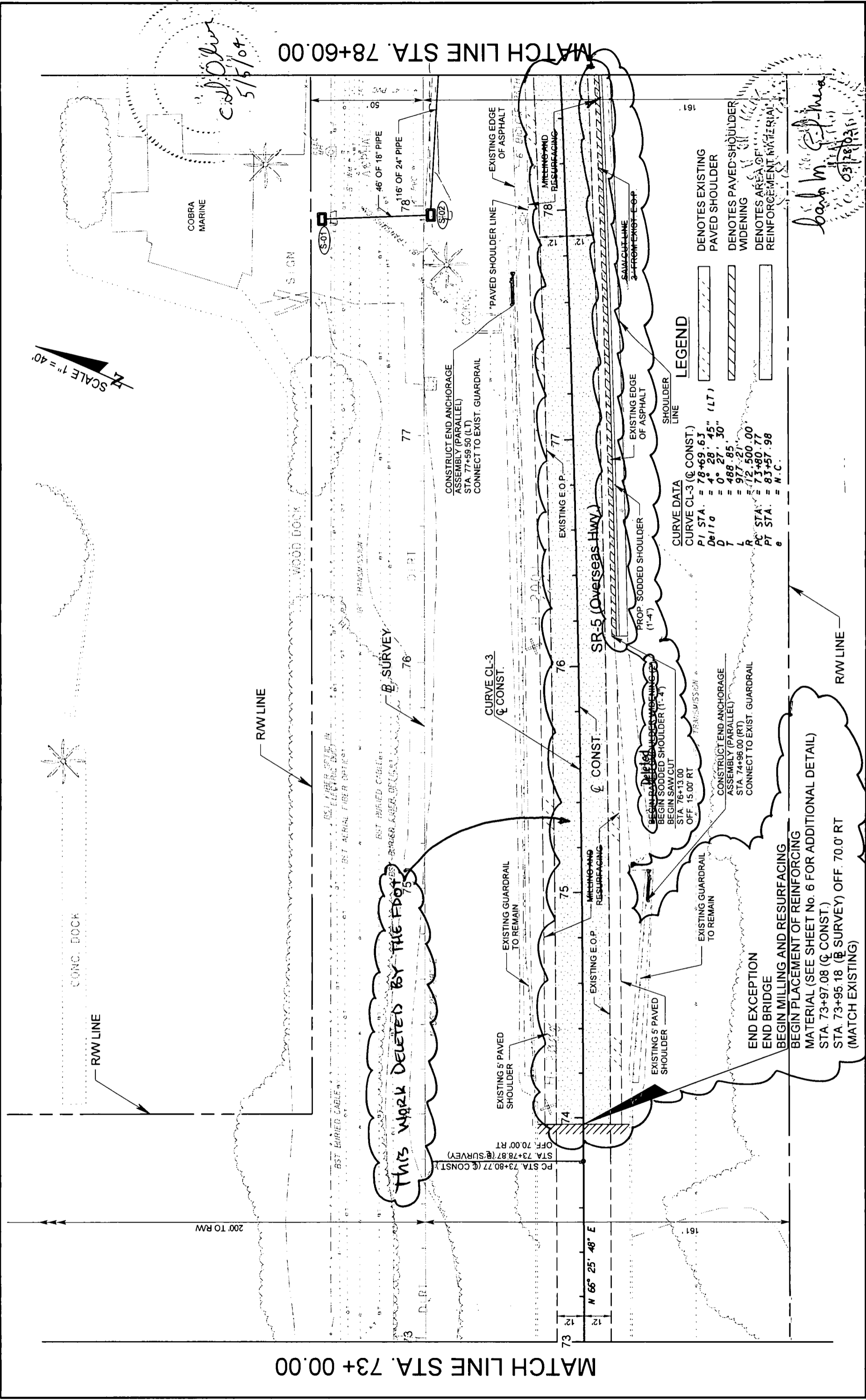
REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

ENGINEER OF RECORD:
A&P
 A&P Consulting Transportation
 Engineers Corporation
 10305 N.W. 41 Street, Suite 115
 Miami, FL 33178
 (305) 593-1994
 support@aapct.com

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

SR-5 / US-1
 ROADWAY PLAN

SHEET NO. 16



SCALE 1" = 40'

MATCH LINE STA. 73+00.00

MATCH LINE STA. 78+60.00

LEGEND
 DENOTES EXISTING PAVED SHOULDER
 DENOTES PAVED SHOULDER WIDENING
 DENOTES AREA OF REINFORCEMENT MATERIAL

CURVE DATA
 CURVE CL-3 (CL CONST.)
 PI STA. = 78+69.63
 De/I = 4° 28' 45" (LT)
 D = 0° 27' 30"
 T = 488.85'
 L = 977.21'
 PC STA. = 72+500.00
 PT STA. = 73+80.77
 e = 83+57.98
 = N.C.

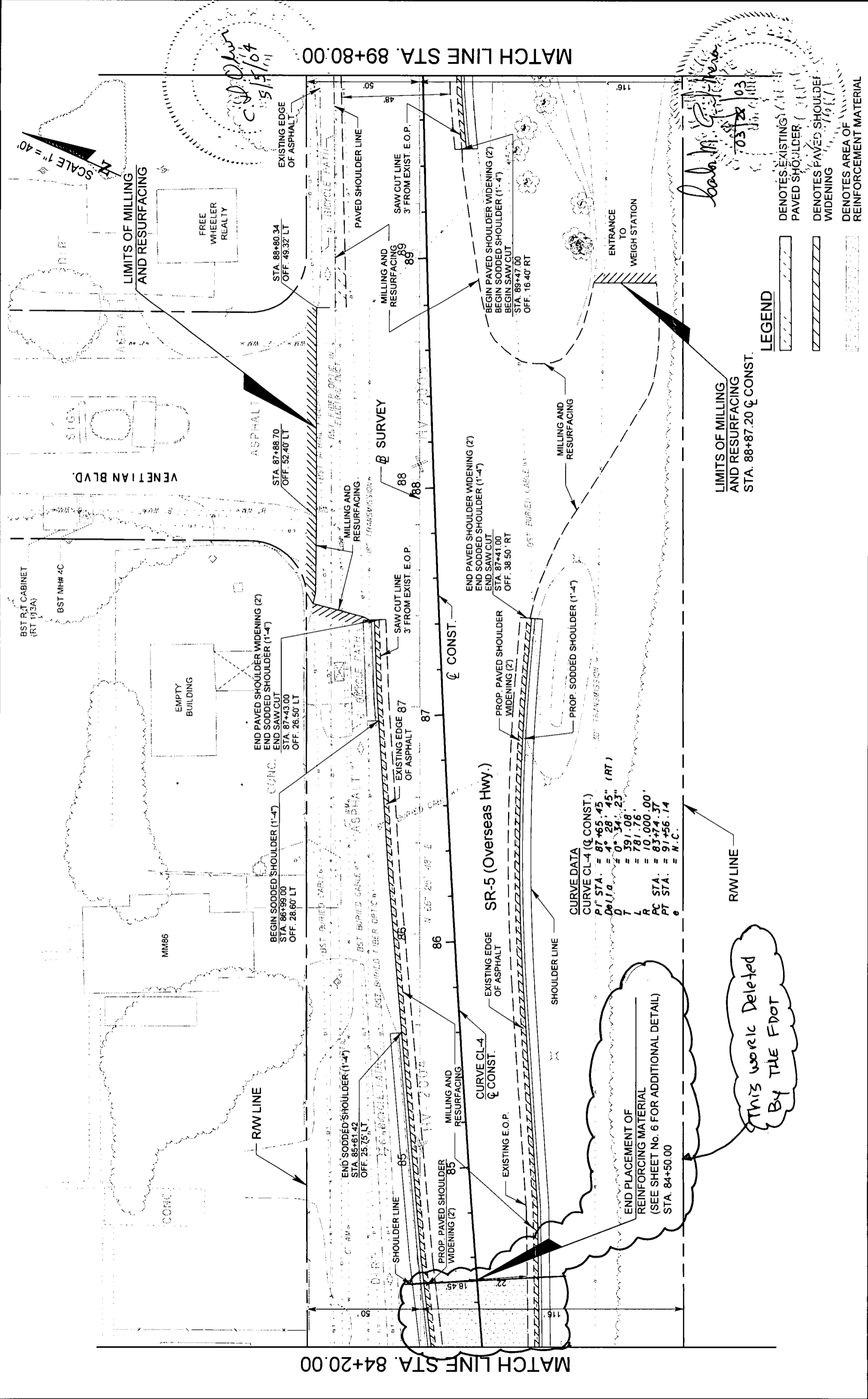
REVISIONS		DESCRIPTION		DATE		BY	

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

ENGINEER OF RECORD:		A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Miami, FL 33178 (305) 58-APCTE / Fax: (305) 593-1594 aap@aapca.com	

SR-5 / US-1
 ROADWAY PLAN

SHEET NO. 17



MATCH LINE STA. 84+20.00

MATCH LINE STA. 89+80.00

END PLACEMENT OF REINFORCING MATERIAL (SEE SHEET No. 6 FOR ADDITIONAL DETAIL) STA. 84+50.00

THIS WORK DELETED BY THE FDOT

LIMITS OF MILLING AND RESURFACING STA. 88+87.20 Q CONST.

LIMITS OF MILLING AND RESURFACING

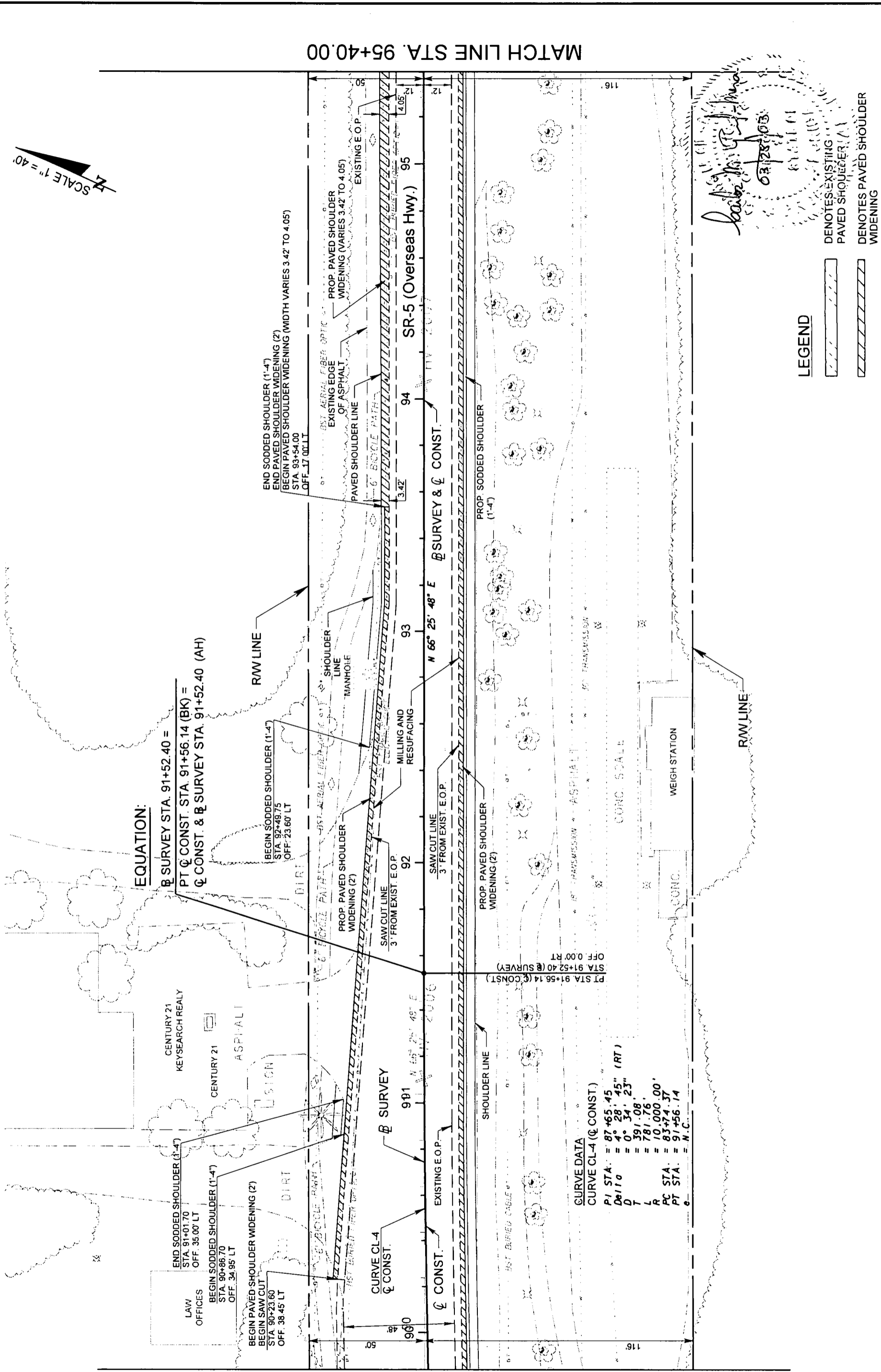
Bob M. [Signature]

C. D. [Signature] 5/15/04

SCALE 1" = 40'

MATCH LINE STA. 89+80.00

MATCH LINE STA. 95+40.00



EQUATION:

$\text{Q} \text{ STA. } 91+52.40 =$
 $\text{PT} \text{ Q} \text{ CONST. STA. } 91+56.14 \text{ (BK)} =$
 $\text{Q} \text{ CONST. \& Q SURVEY STA. } 91+52.40 \text{ (AH)}$

CURVE DATA
 CURVE CL-4 (Q CONST.)
 $PI \text{ STA.} = 87+65.45$
 $Delta = 4^{\circ} 28' 45'' \text{ (RT)}$
 $D = 0^{\circ} 34' 23''$
 $L = 391.08'$
 $R = 781.76'$
 $PC \text{ STA.} = 10,000.00'$
 $PT \text{ STA.} = 83+74.37'$
 $Q = N.C.$

LEGEND

- DENOTES EXISTING PAVED SHOULDER
- DENOTES PAVED SHOULDER WIDENING

Seal: [Signature]
 03/28/03

SCALE 1" = 40'

DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
AIP ENGINEERS
 A&P Consulting Transportation Engineers Corporation
 10305 N.W. 41 Street, Suite 115
 Miami, FL 33178 / Tel: (305) 593-1594
 support@aipdata.com

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405646-1-52-01

SR-5 / US-1
ROADWAY PLAN
 SHEET NO. 20

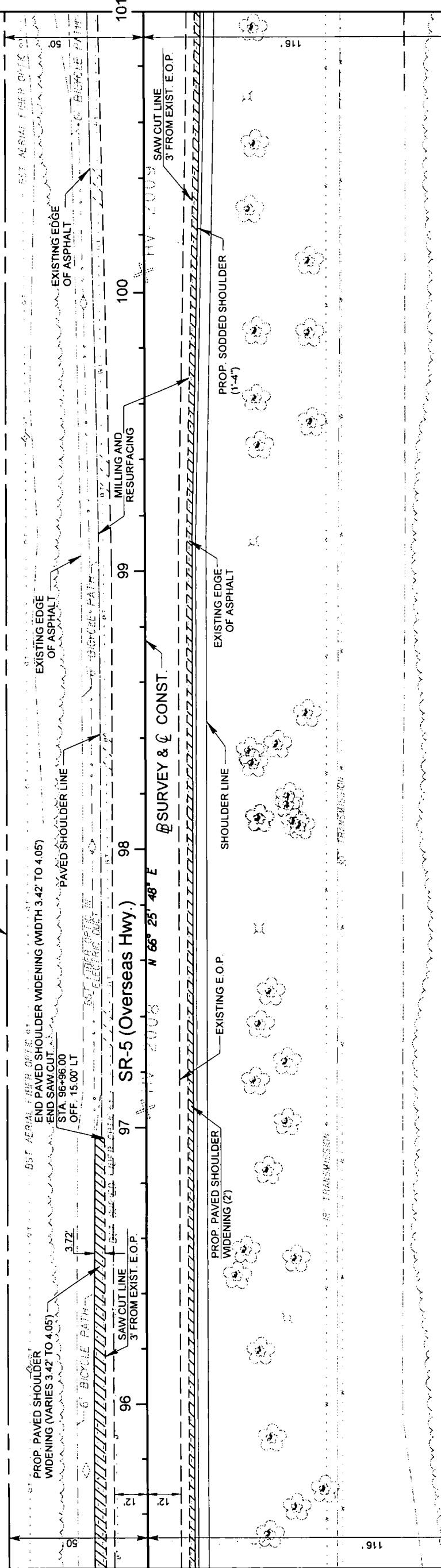
SCALE 1" = 40'

MATCH LINE STA. 101+00.00

MATCH LINE STA. 95+40.00

RAW LINE

RAW LINE



LEGEND

▨ DENOTES EXISTING PAVED SHOULDER

▨ DENOTES PAVED SHOULDER WIDENING

Robert M. G. [Signature]
 03/28/03

DATE	BY	DESCRIPTION

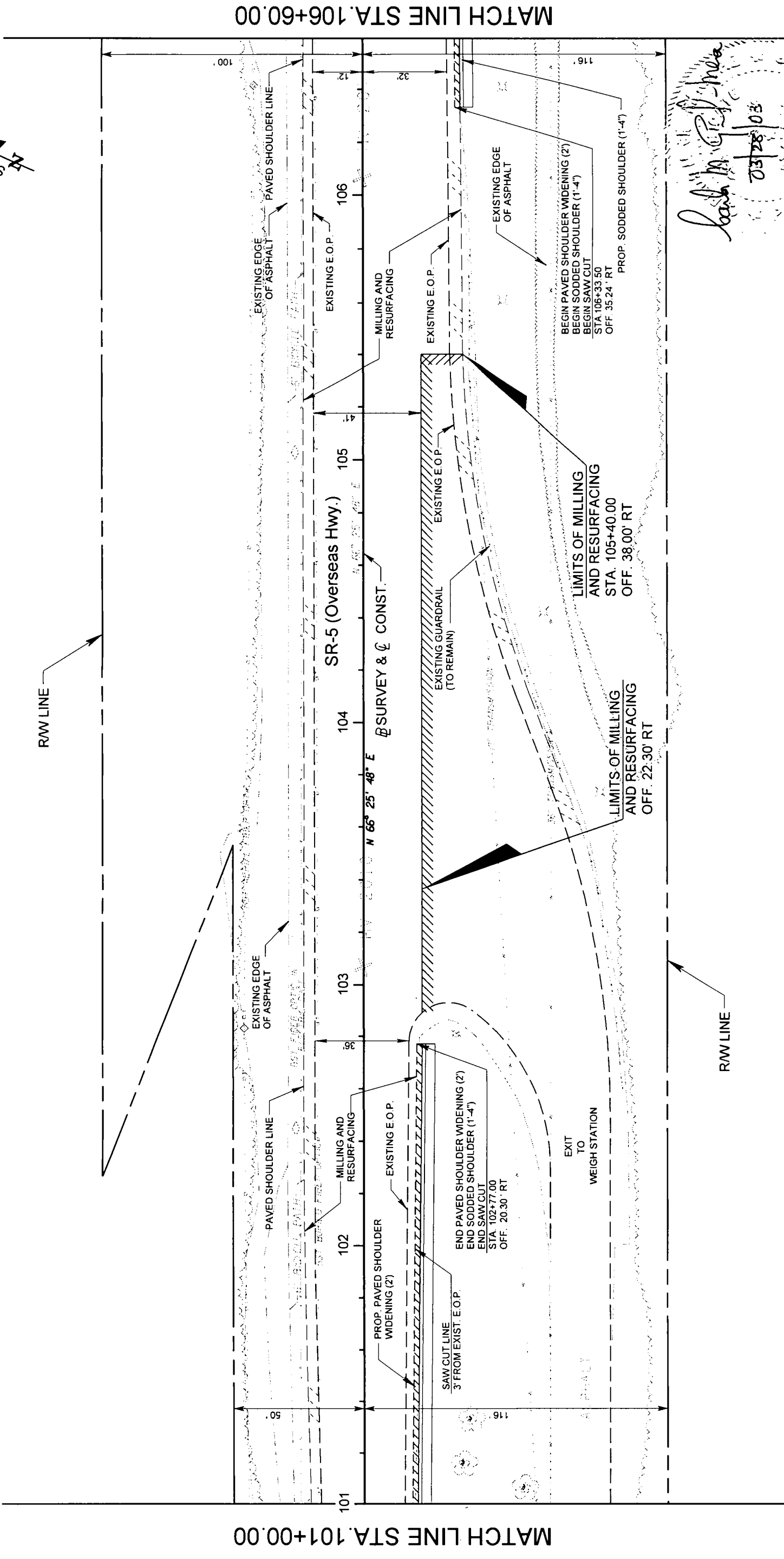
ENGINEER OF RECORD:
AIP ENGINEERS
 A&P Consulting Transportation Engineers Corporation
 10305 NW 41 Street, Suite 115
 Miami, FL 33178 / (305) 593-1594
 support@aipa.com

STATE OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
ROAD NO. SR-5	COUNTY MONROE
FINANCIAL PROJECT ID. 405646-1-52-01	

SR-5 / US-1
 ROADWAY PLAN

SHEET NO. 21

SCALE 1" = 40'



Handwritten signature and date:
 03/28/03

LEGEND

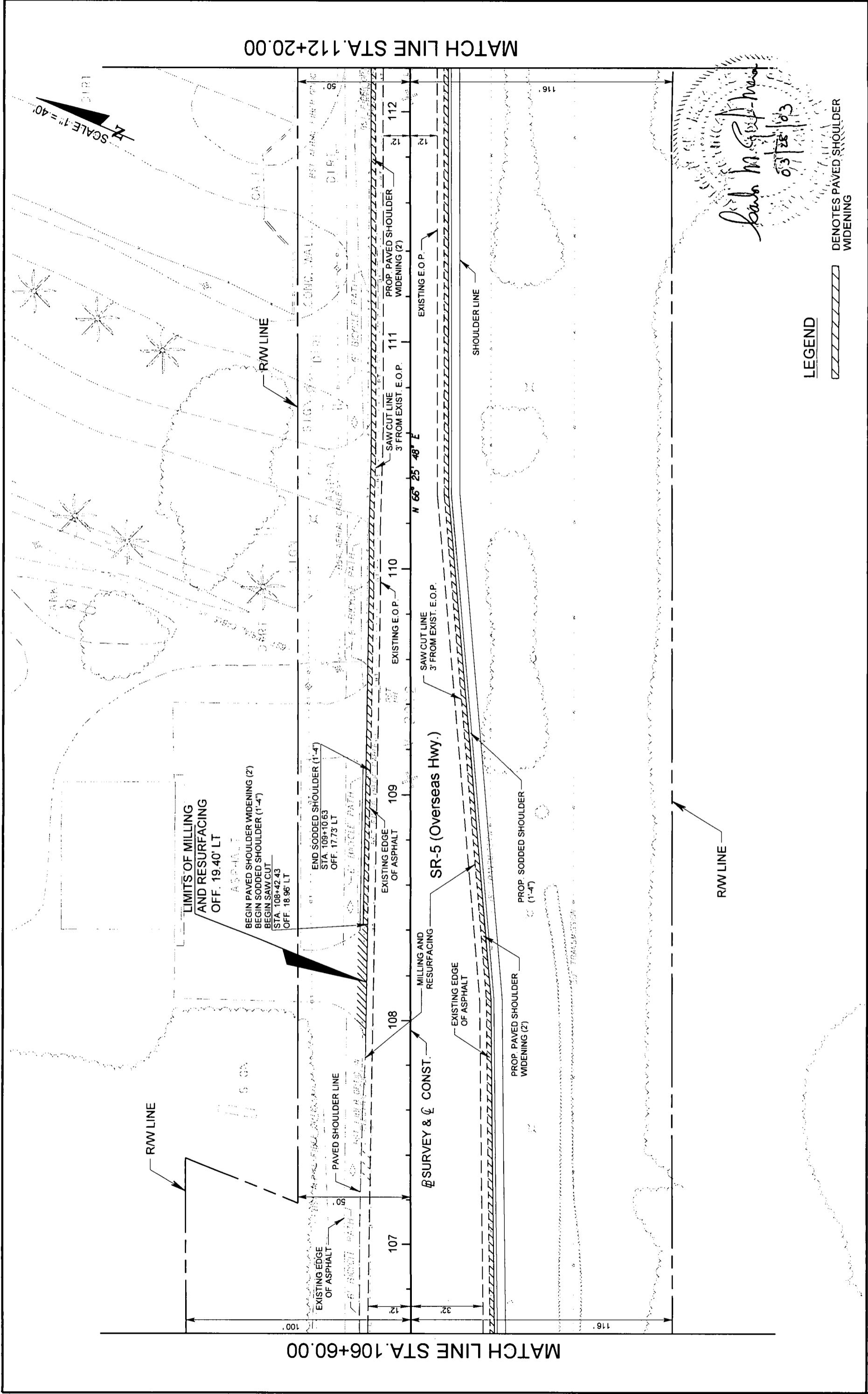
DENOTES EXISTING PAVED SHOULDER
 DENOTES PAVED SHOULDER WIDENING

MATCH LINE STA. 101+00.00

MATCH LINE STA. 106+60.00

REVISIONS		DATE		BY		DESCRIPTION	

ENGINEER OF RECORD:		STATE OF FLORIDA		SR-5 / US-1		SHEET NO.	
A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 (305) 594-4000 / Fax: (305) 594-1594 support@apce.com		DEPARTMENT OF TRANSPORTATION		ROADWAY PLAN		22	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
SR-5	MONROE	405646-1-52-01					



LEGEND

▨ DENOTES PAVED SHOULDER WIDENING

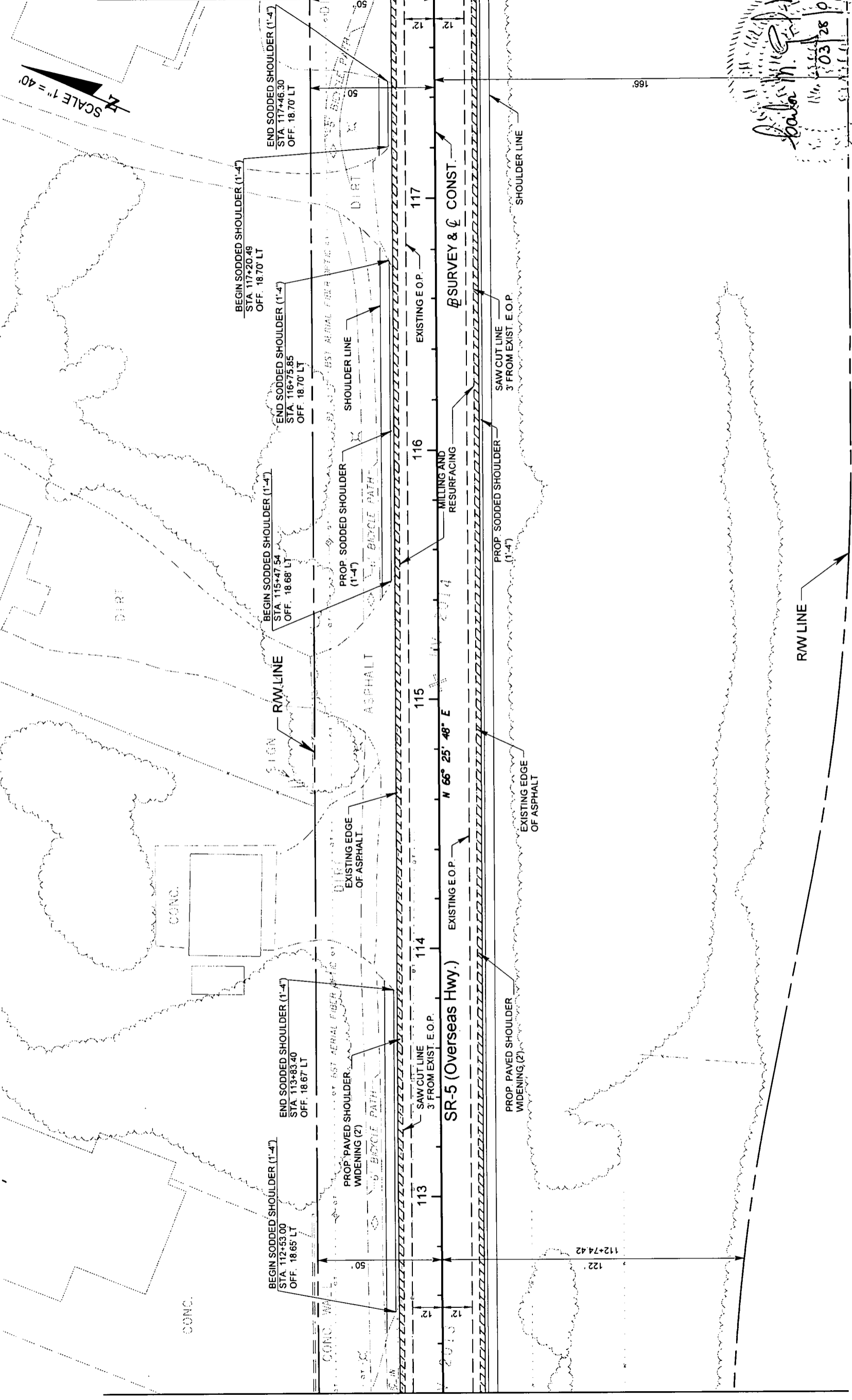
Leah M. [Signature]
03/28/03

REVISIONS		DESCRIPTION		DATE	BY

ENGINEER OF RECORD:		STATE OF FLORIDA		SR-5 / US-1		SHEET NO.	
A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Miami, FL 33178 (305) 59-APCTE / Fax: (305) 593-1594 support@apct.com		DEPARTMENT OF TRANSPORTATION		ROADWAY PLAN		23	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
SR-5	MONROE	405646-1-52-01					

MATCH LINE STA. 112+20.00

MATCH LINE STA. 117+80.00



LEGEND

▨ DENOTES PAVED SHOULDER WIDENING

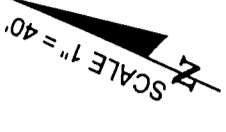
REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

ENGINEER OF RECORD:
A&P ENGINEERS
 A&P Consulting Transportation Engineers Corporation
 10305 N.W. 41 Street, Suite 115
 Miami, FL 33178
 (305) 584-8474 / fax: (305) 593-1584
 support@aapce.com

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

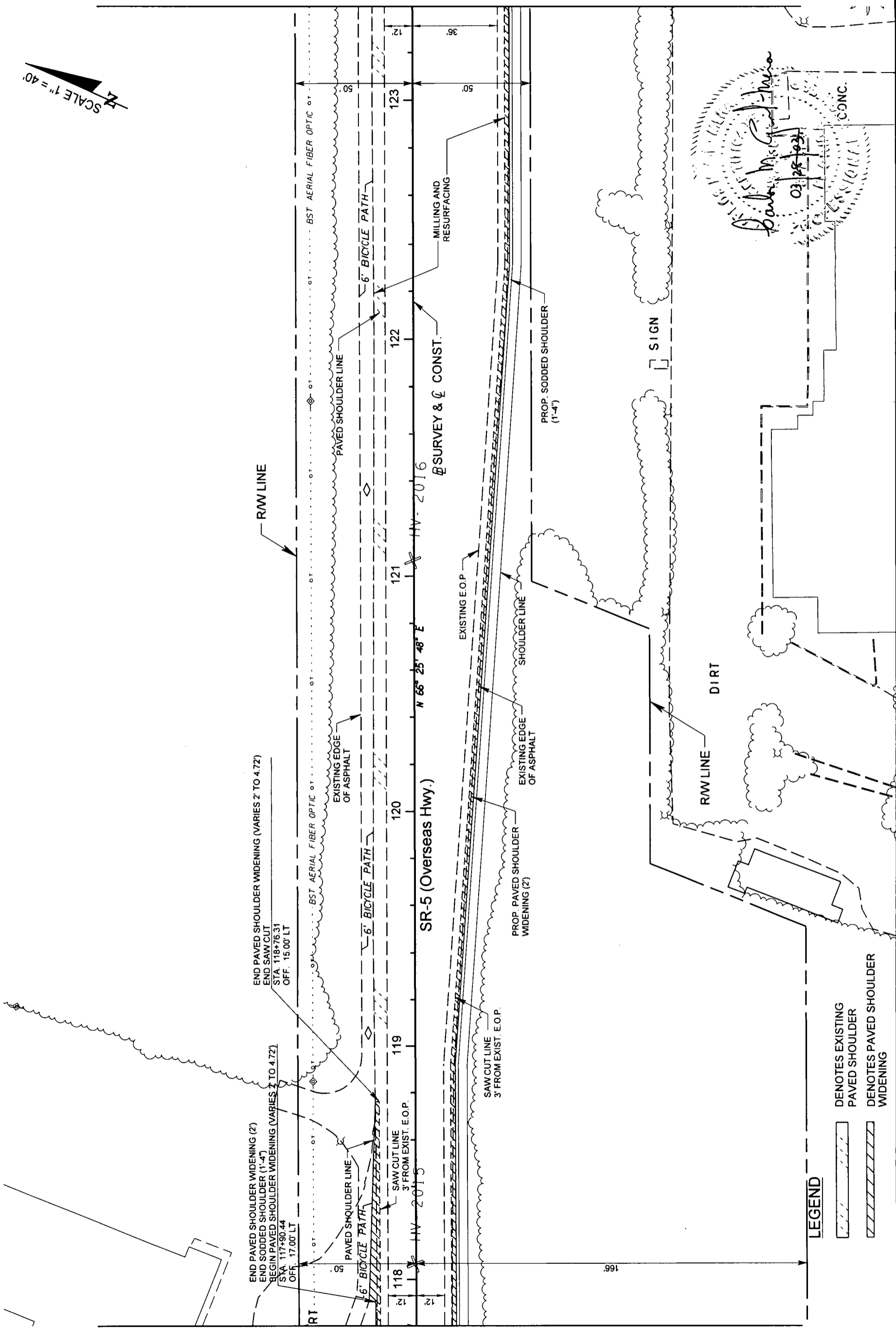
SR-5 / US-1
ROADWAY PLAN

SHEET NO. **24**



MATCH LINE STA. 117+80.00

MATCH LINE STA. 123+40.00



LEGEND

- DENOTES EXISTING PAVED SHOULDER
- DENOTES PAVED SHOULDER WIDENING

REVISIONS		DESCRIPTION
DATE	BY	DESCRIPTION

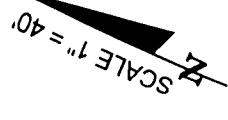
ENGINEER OF RECORD:
A&P ENGINEERS
 A&P Consulting Transportation Engineers Corporation
 10305 N.W. 41 Street, Suite 115
 Miami, FL 33178
 (305) 59-APCTE / Fax: (305) 593-1994
 support@apcte.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY
SR-5	MONROE
FINANCIAL PROJECT ID	
405646-1-52-01	

SHEET NO. 25

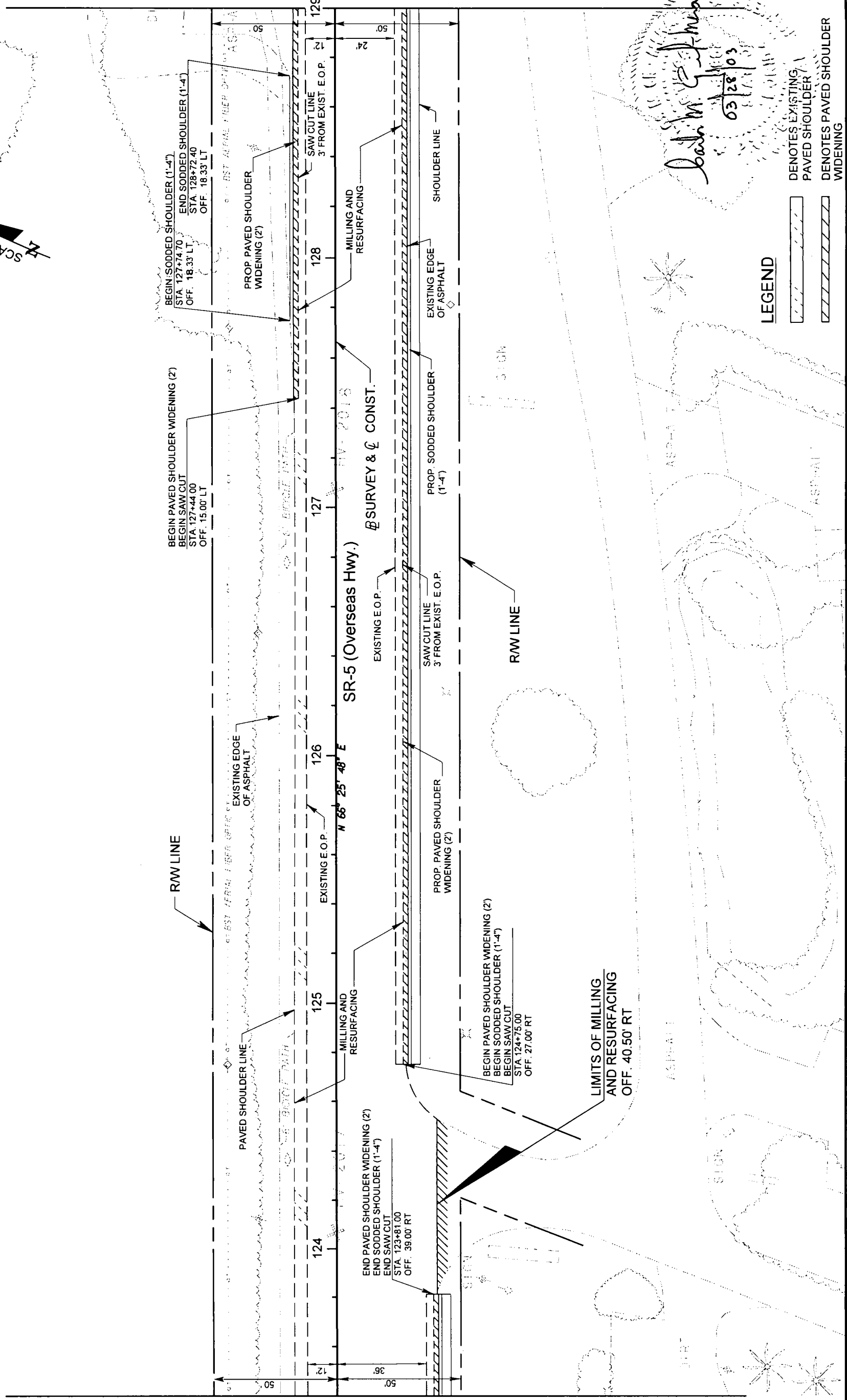
**SR-5 / US-1
ROADWAY PLAN**

Barbara M. G...-meo
 03/28/2016
 CONC.



MATCH LINE STA. 123+40.00

MATCH LINE STA. 129+00.00



LEGEND

- DENOTES EXISTING PAVED SHOULDER
- DENOTES PAVED SHOULDER WIDENING

John M. G. [Signature]
05/28/03

REVISIONS	
DATE	DESCRIPTION

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 NW 41 Street, Suite 115
Miami, FL 33178
(305) 59-APCTE / fax (305) 593-1594
support@ape.com

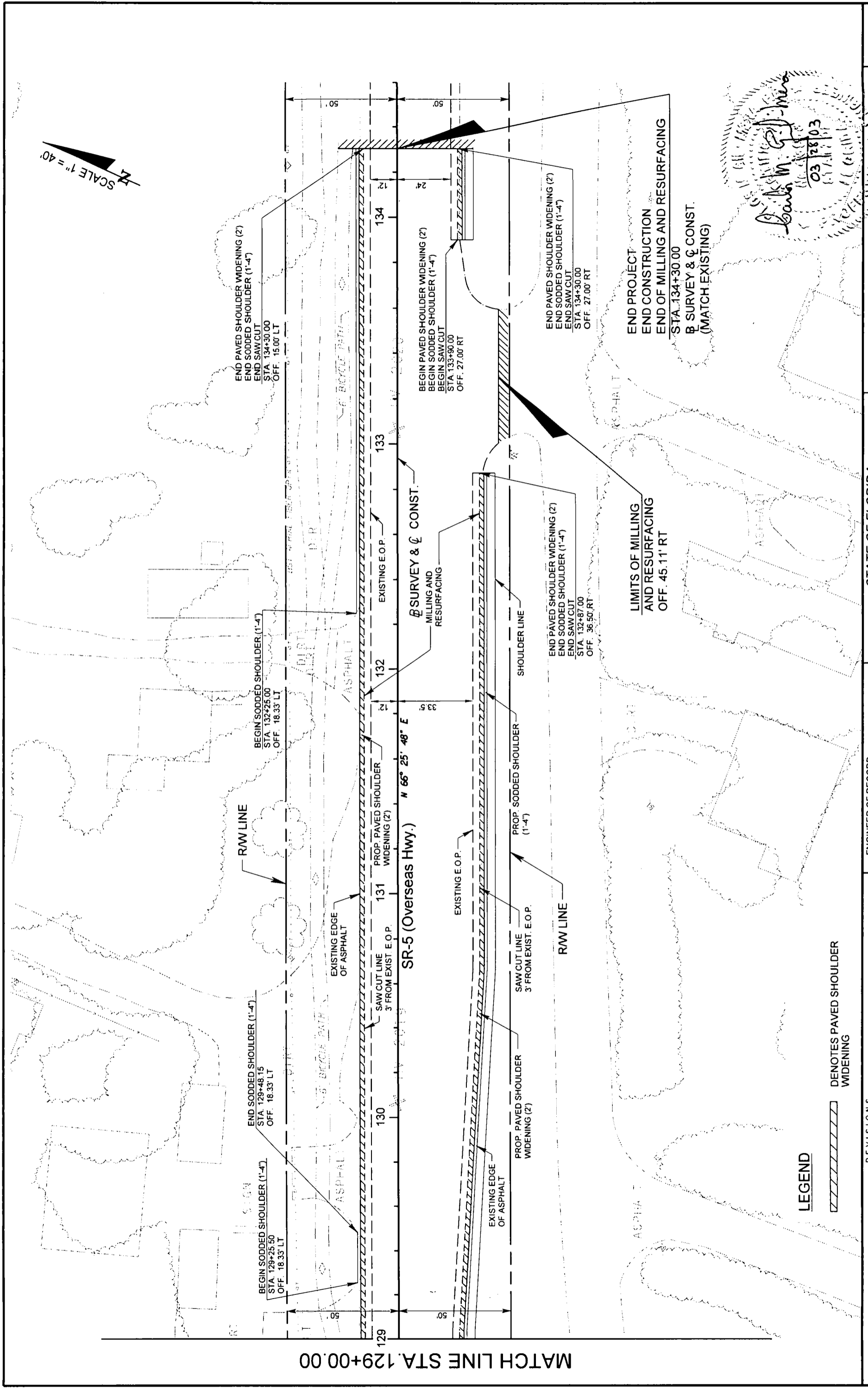
STATE OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
ROAD NO	COUNTY
SR-5	MONROE
FINANCIAL PROJECT ID	405646-1-52-01

SHEET NO. 26

**SR-5 / US-1
ROADWAY PLAN**

SCALE 1" = 40'

MATCH LINE STA. 129+00.00



LEGEND

▨ DENOTES PAVED SHOULDER WIDENING

Barbara M. G. [Signature]
03/28/03

REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

ENGINEER OF RECORD:		STATE OF FLORIDA	
A&P Consulting Transportation Engineers Corporation 10305 NW 41 Street, Suite 115 Miami, FL 33178 (305) 59-APCTE / fax: (305) 593-1994 support@apcte.com		DEPARTMENT OF TRANSPORTATION	
ROAD NO. SR-5		COUNTY	MONROE
FINANCIAL PROJECT ID		405646-1-52-01	

SR-5 / US-1		SHEET NO.
ROADWAY PLAN		27

CONST. SR-5 (OVERSEAS HWY.)

TO S-04

CONST. 24" FD.
TOP. EL. 5.20
BOTTOM EL. (-) 7.15

7.40

1102

S-03
Sta. 79+20.00 (48.41' LT.)
Const. DBI Type E
W/ Bambi (Ah.)
Index No. 233
FL EI. = 2.70 (Ah.)
FL EI. = 2.50 (Bk.)
Bottom EI. = (-) 1.30

STA. 79+20.00

UTILITY VERIFICATION INFORMATION (V/H) TABLE
ALONG SR-5 (US-1) (OVERSEAS HIGHWAY)

VH#	STATION	OFFSET	VERIFIED ELEVATION T.O.P.	INTERSECTING UTILITY
1	77+98.48	15.35 LT	4.12	1" D.B. CABLE
2	77+99.14	19.38 LT	4.26	2" BT
3	77+98.47	28.44 LT	4.27	18" W/M
4	77+98.39	32.60 LT	4.08	16" W/M
5	77+98.58	39.69 LT	4.80	4" BT

CONST. 24" PIPE

7.23

1/3 ADJUSTMENT
Rough F.C.

S-02
Sta. 78+00.00 (35.76' LT.)
Const. DBI Type E
Index No. 233
FL EI. = 2.70 Ah.
FL EI. = (-) 0.60 Lt.
Bottom EI. = (-) 2.60

STA. 78+00.00

55.76 LT

S-01
Sta. 78+00.00 (39.89' LT.)
Const. DBI Type E
Index No. 233
FL EI. = (-) 0.50 Rt.
Bottom EI. = (-) 2.50

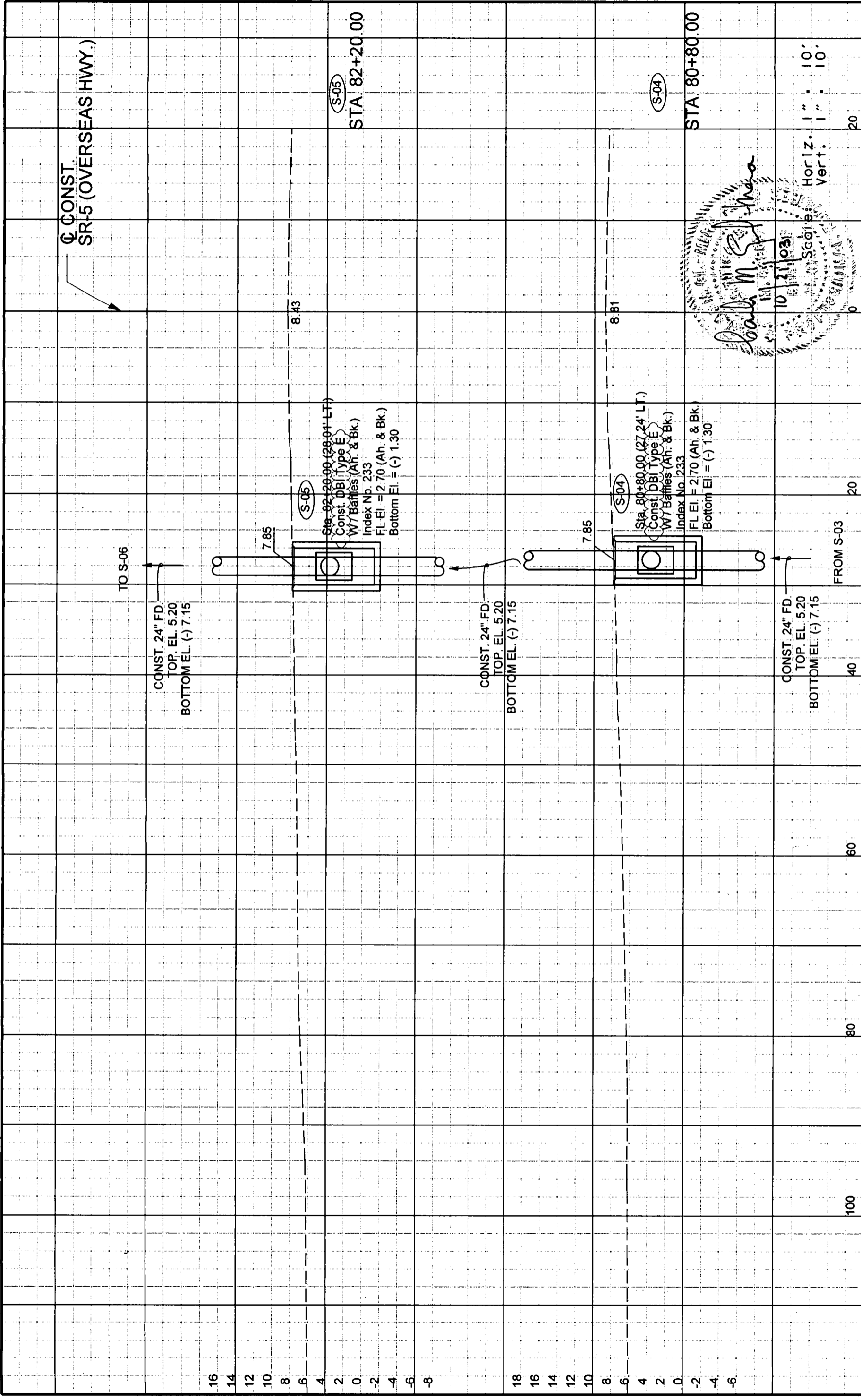
Scale: Horiz. 1" = 10'
Vert. 1" = 10'

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
09/25/03	A.A.	REVISED FL AND BOTTOM ELEVATIONS FOR S-1 AND S-2			
10/20/03	A.A.	CHANGE DBI TO TYPE E			

ENGINEER OF RECORD:
A&P Consulting Transportation Engineers
10305 NW 41 Street, Suite 115
Miami, FL 33178
(305) 59-APCTE / fax: (305) 593-1594
support@apcte.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. SR-5
COUNTY MONROE
FINANCIAL PROJECT ID 405646-1-52-01

DRAINAGE STRUCTURES
SHEET NO. 28



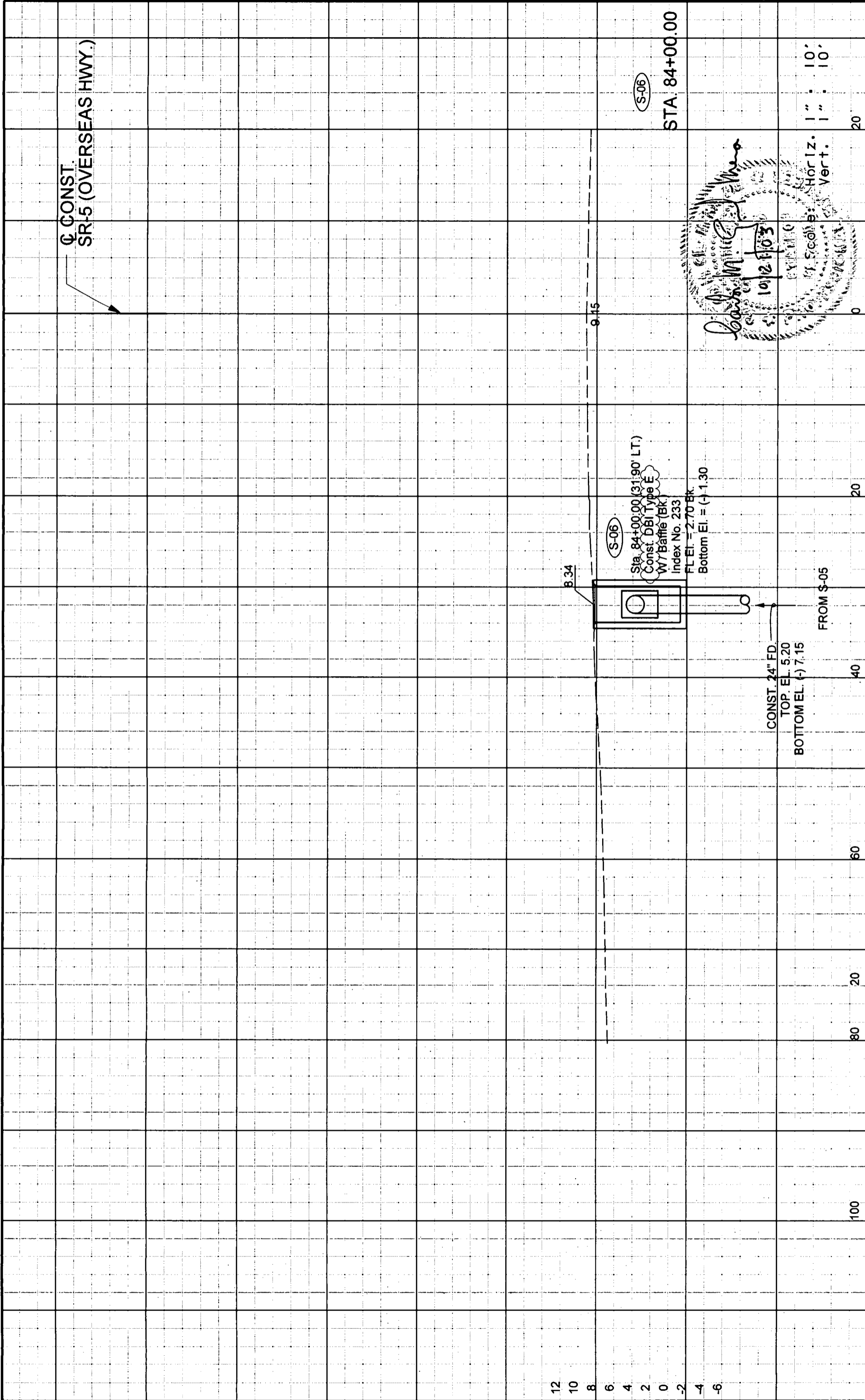
DATE		BY		DESCRIPTION	
10/2003	AA			CHANGE DBI TO TYPE E	

REVISIONS		DATE	BY	DESCRIPTION
16				
14				
12				
10				
8				
6				
4				
2				
0				
-2				
-4				
-6				
-8				

ENGINEER OF RECORD:		STATE OF FLORIDA	
A&P Consulting Transportation Engineers		DEPARTMENT OF TRANSPORTATION	
10305 NW 41 Street, Suite 115 Miami, FL 33178 (305) 59-APCTE / Fax: (305) 593-1594 support@apcte.com		ROAD NO. SR-5 COUNTY MONROE FINANCIAL PROJECT ID 405646-1-52-01	

DRAINAGE STRUCTURES		SHEET NO. 29	
---------------------	--	--------------	--

10/21/03
 Seal
 Scale: Horiz. 1" = 10', Vert. 1" = 10'
 Paul M. Spina

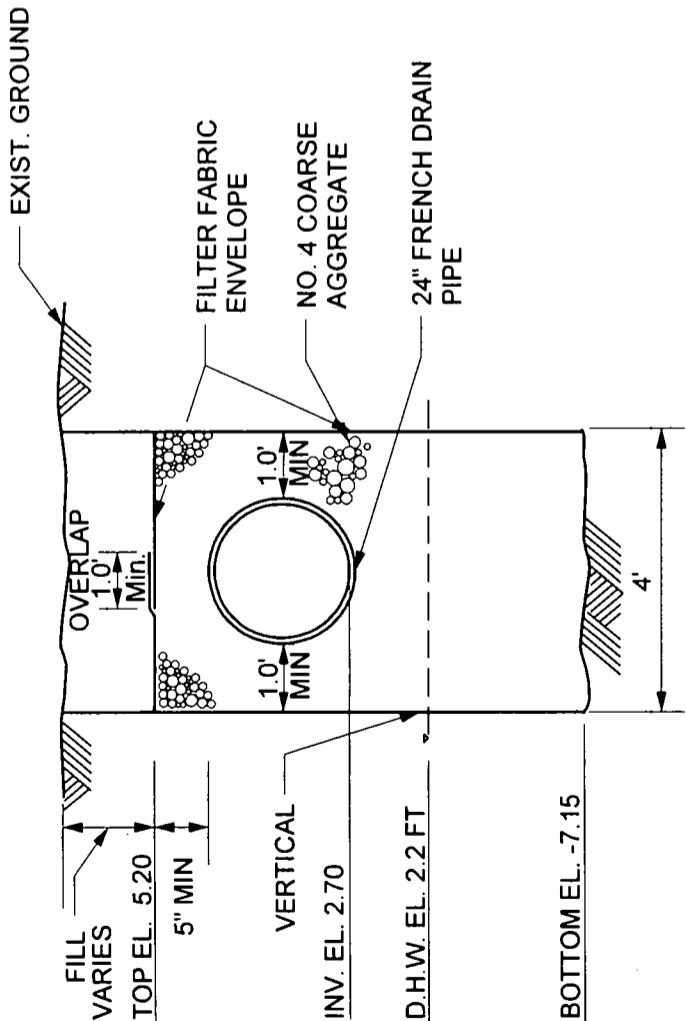


DATE	BY	DESCRIPTION
10/20/03	AA	CHANGE DBI TO TYPE E

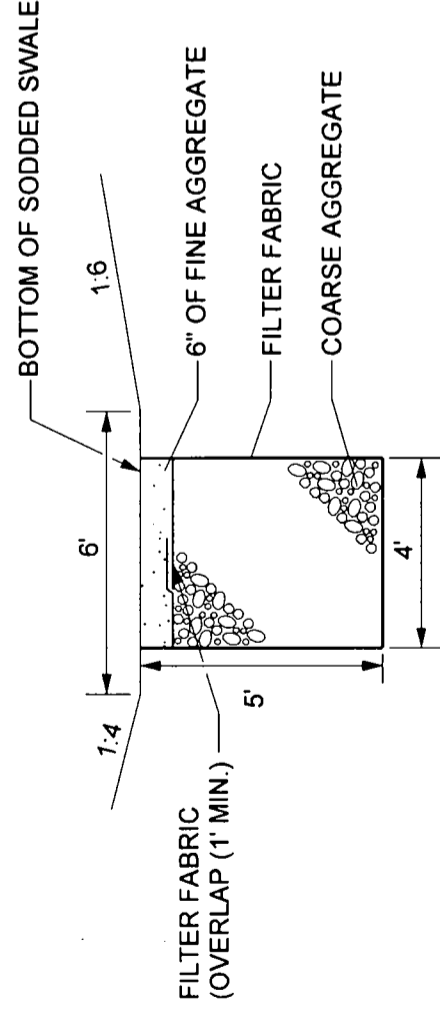
REVISIONS	DATE	BY	DESCRIPTION
12			
10			
8			
6			
4			
2			
0			
-2			
-4			
-6			

ENGINEER OF RECORD:		STATE OF FLORIDA	
A&P Consulting Transportation Engineers		DEPARTMENT OF TRANSPORTATION	
10305 NW 41 Street, Suite 115		ROAD NO. SR-5	
Miami, FL 33178		COUNTY MONROE	
(305) 59-APCTE / fax (305) 593-1594		FINANCIAL PROJECT ID 405646-1-52-01	
support@apcte.com			

DRAINAGE STRUCTURES		SHEET NO. 30
---------------------	--	--------------

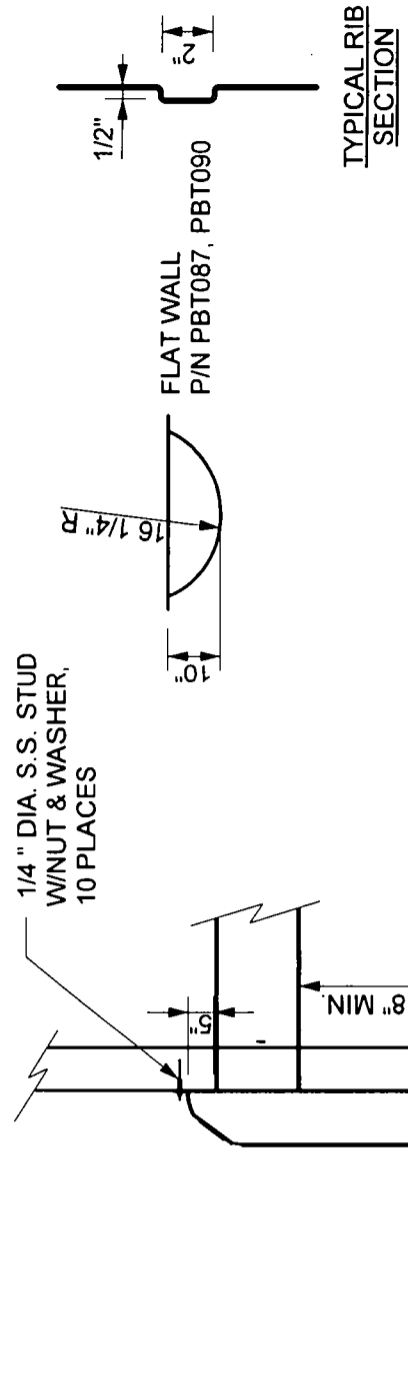


FRENCH DRAIN CROSS SECTION DETAIL
N.T.S.



- NOTES: 1. ALL SWALE AREAS SHOULD BE SODDED. COST TO BE INCLUDED IN PAY ITEM 575-1-1, SODDING (BAHIA).
2. FINE AGGREGATE SHALL BE QUARTZ SAND MEETING THE REQUIREMENTS OF SECTIONS 902-4 OF THE STANDARD SPECIFICATIONS.
3. COARSE AGGREGATE SHALL BE GRAVEL OR STONE MEETING THE REQUIREMENTS OF SECTIONS 901-2 OR 901-3. THE GRADATION SHALL MEET SECTION 901, GRADES 4, 467, 5, 56 OR 57 STONE UNLESS OTHERWISE SHOWN RESTRICTED IN THE PLANS.
4. COST OF CONSTRUCTING EXFILTRATION TRENCH, INCLUDING BUT NOT LIMITED TO FINE AND COARSE AGGREGATE, FILTER FABRICS, TRENCH EXCAVATION, BACKFILL IN PLACE AND DISPOSAL OF EXCESS MATERIALS TO BE INCLUDED IN PAY ITEM 440-1-60, UNDERDRAIN (SPECIAL).

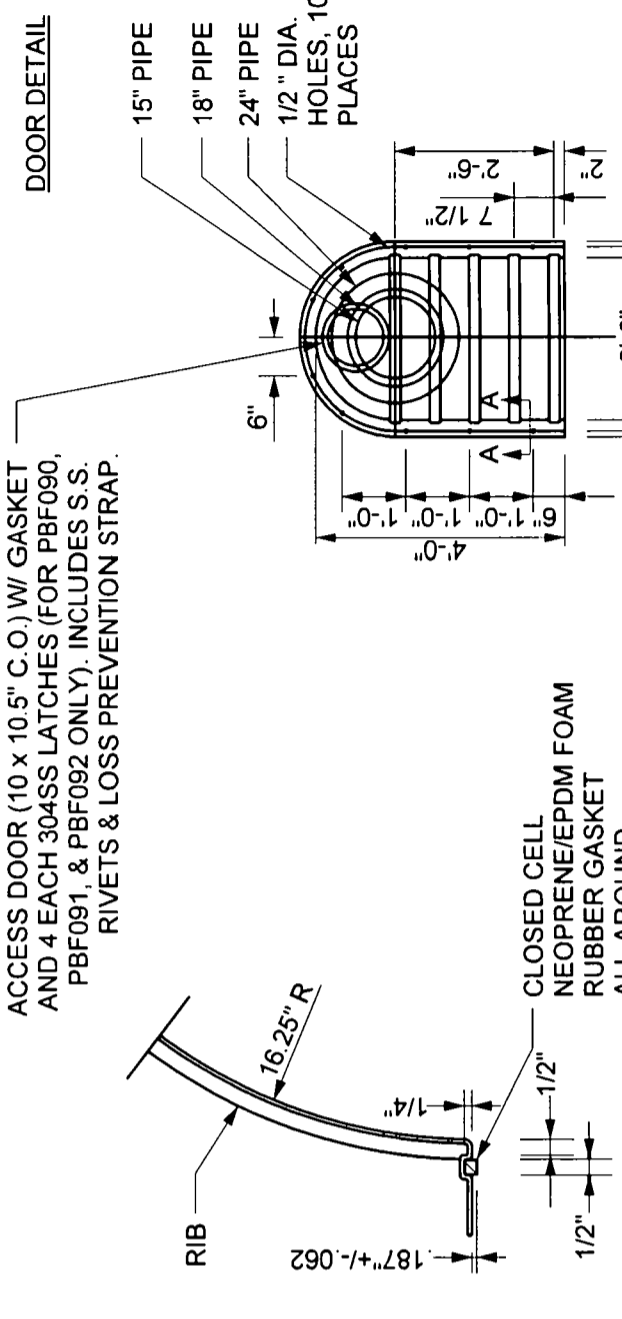
EXFILTRATION TRENCH DETAIL
N.T.S.



TYPICAL RIB SECTION

ACCESS DOOR (10.5" DIA. C.O.) W/ GASKET AND 4 EACH 304SS LATCHES (FOR P/N PBT090, PBT091, PBT092 ONLY). INCLUDES S.S. RIVETED LOSS PREVENTION STRAP.

BAFFLE INSTALLATION DETAIL



ACCESS DOOR (10 x 10.5" C.O.) W/ GASKET AND 4 EACH 304SS LATCHES (FOR PBF090, PBF091, & PBF092 ONLY). INCLUDES S.S. RIVETS & LOSS PREVENTION STRAP.

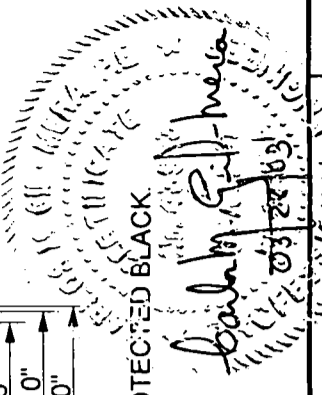
CLOSED CELL NEOPRENE/EPDM FOAM RUBBER GASKET ALL AROUND

SECTION A-A

NOTE:

BAFFLE MATERIAL: 1/8" ABS PLASTIC WITH UV PROTECTED BLACK

BAFFLE DETAIL
N.T.S.



DATE		DESCRIPTION		DATE		DESCRIPTION	
BY		BY		DATE		DATE	
REVISIONS		ENGINEER OF RECORD: A&P ENGINEERS A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Miami, FL 33178 (305) 591-1584 / Fax (305) 591-1584 info@aandp.com					
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				FINANCIAL PROJECT ID			
ROAD NO.		COUNTY		SR-5		MONROE	
SR-5		MONROE		405646-1-52-01		405646-1-52-01	
SHEET NO.		31					

DRAINAGE DETAILS

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH**

FINANCIAL PROJECT ID. STATE PROJECT NO. SHEET NO.
405646-1-52-01 N/A 32

DATE OF SURVEY : 11-13/ 11-14-00
SURVEY MADE BY : B. SWIDARSKI
DATE OF TESTING : 11-21-00
TESTED BY : H. CASTRO
SUBMITTED BY : D.C. MIRO

STATE PROJECT No. N/A
FINANCIAL PROJECT ID. 405646-1-52-01

LABORATORY No. : S-714
DISTRICT No. : 6
COUNTY : MONROE
ROAD No. : SR-5
LOCATION : T63S . R37E . SECT.24
LEGEND : WATER TABLE WHERE ENCOUNTERED

CROSS SECTION SUBGRADE SURVEY FOR THE DESIGN OF ROAD
SURVEY BEGINS STA.: 47+06 B/L SURVEY
SURVEY ENDS STA. : 110+00 B/L SURVEY
WEATHER : SUNNY AND WARM

REPORT OF TESTS OF MATERIAL FROM ROADWAY FOR USE IN EMBANKMENT AND SUBGRADE

MECHANICAL ANALYSIS

STRATUM NO.	SAMPLE NO.	% ORGANIC CONTENT	% PASS 10 MESH	% PASS 40 MESH	% PASS 60 MESH	% PASS 200 MESH	CONSTANTS-MATERIAL		GROUP	MATERIAL DESCRIPTION
							LIQUID LIMIT	PLASTIC LIMIT		
1	--	--	56	35	29	18	NP	NP	A-1-b	WHITE TO PALE BROWN SANDY LIMESTONE (FILL)
2	--	--	60	41	34	22	NP	NP	A-1-b	WHITE TO GRAY TO LIGHT TAN SILTY SANDY LIMESTONE
3	--	38.7	80	49	38	21	NP	NP	A-4/A-8	LIGHT CALCAREOUS SANDY SILT (MARL) WITH ORGANIC SILT (MUCK)
4	--	--	--	--	--	--	NP	NP	A-8	TOPSOIL (ORGANIC)

NOTES:

THE MATERIAL FROM STRATA NOS.1 AND 2 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD INDEX NO. 505.
THE MATERIAL FROM STRATUM NO. 4 IS MUCK/ A-8 MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD INDEX NO. 500
THE REMOVAL OF A-4/A-8 MATERIAL (MUCK/MARL) OCCURRING WITHIN THE ROADWAY SUCH AS IN STRATUM 3 IS NORMALLY ACCOMPLISHED IN ACCORDANCE WITH INDEX NO. 500.
MOST OF THE INVESTIGATION DONE ALONG THE OLD US-1 ALIGNMENT INDICATES THAT THESE MATERIALS ARE UNDERLYING SEVERAL FEET OF FILL WHICH HAS BEEN SURCHARGING THEM FOR A PERIOD OF MANY YEARS. DUE TO THE DEPTH OF THE A-4/A-8 MATERIAL IN STRATUM 3, REMOVAL OF THESE MATERIAL WOULD BE UNECONOMICAL

SUBNOTES:

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.
THE WATER TABLE WAS FOUND TO RANGE FROM 4.8 TO 11.6 FEET BELOW EXISTING GROUND SURFACE AT THE TIME OF THE SURVEY.



 David C. Miro 6-12-01
 DAVID C. MIRO, P.E. DATE
 REGISTRATION NO. 16689

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

FLORIDA DEPARTMENT OF TRANSPORTATION
SOIL SURVEY

GENERAL NOTES

- ALL DEPTHS GIVEN IN DISTANCE BELOW EXISTING GROUND AT BORING LOCATION.
- BORINGS WERE DONE AS PER A.S.T.M. TEST PROCEDURES D-1586-67
- SPOON: INSIDE DIAMETER: 1-3/8"
OUTSIDE DIAMETER: 2"
- HAMMER: WEIGHT: 140 LBS
DROP: 30"
- -200 PERCENT PASSING - 200 SIEVE
- GNE - GROUND WATER NOT ENCOUNTERED
- BORINGS WERE DONE WITH A CME AUTOMATIC HAMMER.
- THE SOIL STRATIFICATION IS REPRESENTATIVE OF THE CONDITIONS AT THE LOCATION WHERE THE BORING WAS MADE BUT CONDITIONS MAY VARY AT ADJACENT LOCATIONS.

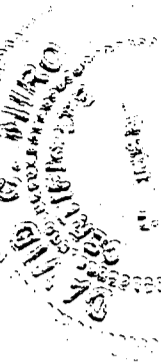
- ENVIRONMENT:
- a). SUBSTRUCTURE: EXTREMELY AGGRESSIVE
 - b). SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

LEGEND

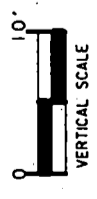
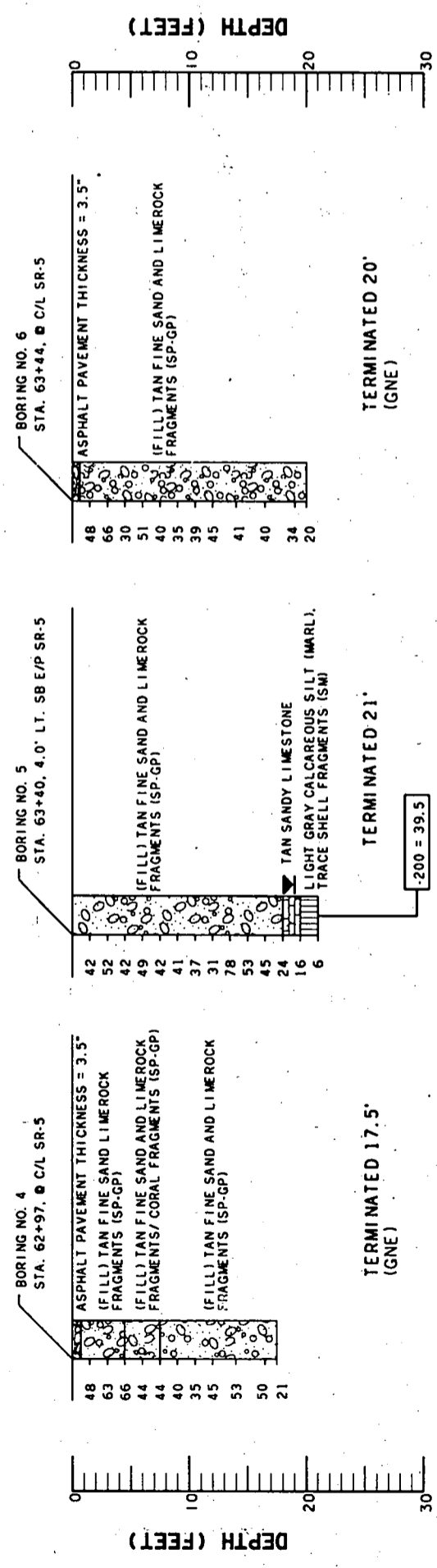
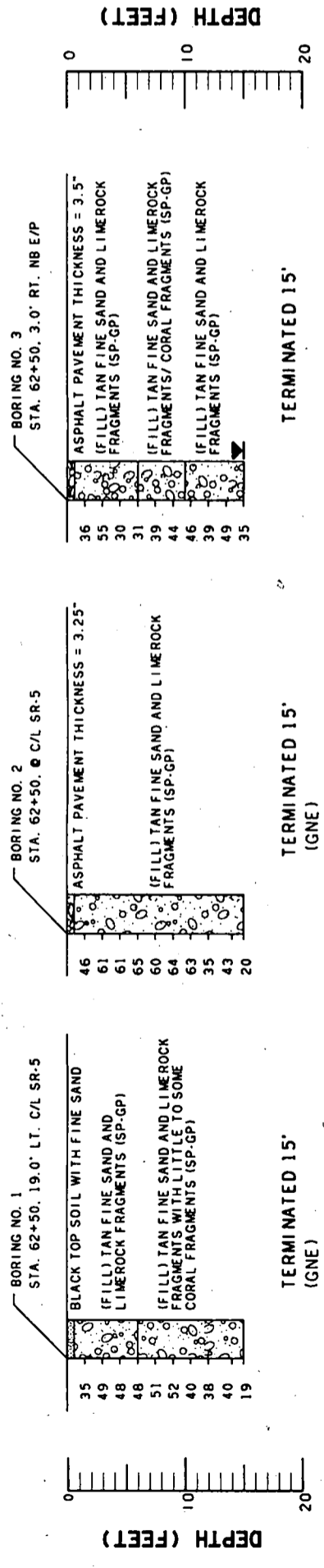
- ASPHALT PAVEMENT
- TOP SOIL WITH FINE SAND
- SANDY LIMESTONE
- WATER TABLE
- FIBROUS ROOTS WITH SOME GLASS FRAGMENTS AND DEBRIS
- FINE SAND AND LIMESTONE FRAGMENTS. MAY INCLUDE LITTLE TO SOME CORAL FRAGMENTS.
- CALCAREOUS SILT

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE
VERY LOOSE	(BLOW/FOOT (300 MM))
LOOSE	LESS THAN 3
MEDIUM DENSE	3-7
DENSE	7-21
VERY DENSE	21-35
	GREATER THAN 35

CONSISTENCY	AUTOMATIC HAMMER SPT N-VALUE
VERY SOFT	(BLOW/FOOT (300 MM))
LOOSE	LESS THAN 1
MEDIUM DENSE	3-7
DENSE	7-21
VERY STIFF	21-35
	GREATER THAN 21



DAVID C. MIRO, P.E.
REGISTRATION No. 16689
9-20-01



C/BENTLEY/CURRENT PROJECTS/405641-1

DATE	DESCRIPTION	BY

REVISIONS

DATE	DESCRIPTION	BY

Boring Date: 08/20-23/27-28/01
 Boring By: PEREZ, LACHUK
 Drawn by: N. WILSON
 Checked by: T. WALTERS
 Approved by: DAVID C. MIRO

ENGINEER OF RECORD: PEREZ, LACHUK

FLORIDA DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN OFFICE
 COUNTY: MONROE
 ROAD NO.: SR-5
 STATE PROJECT NO.: N-A
 FINANCIAL PROJECT NO.: 405646-1-52-01

PROJECT NAME: NORTH OF FRONTAGE RD. TO NORTH OF WEIGHT STATION

DWG NO.:
 INDEX NO.:

GENERAL NOTES

- ALL DEPTHS GIVEN IN DISTANCE BELOW EXISTING GROUND AT BORING LOCATION.
- BORINGS WERE DONE AS PER A.S.T.M. TEST PROCEDURES D-1586-67
- SPOON: INSIDE DIAMETER: 1-3/8"
OUTSIDE DIAMETER: 2"
- HAMMER: WEIGHT: 140 LBS
DROP: 30"
- -200 PERCENT PASSING - 200 SIEVE
- GNE - GROUND WATER NOT ENCOUNTERED
- BORINGS WERE DONE WITH A CME AUTOMATIC HAMMER.
- THE SOIL STRATIFICATION IS REPRESENTATIVE OF THE CONDITIONS AT THE LOCATION WHERE THE BORING WAS MADE BUT CONDITIONS MAY VARY AT ADJACENT LOCATIONS.

- ENVIRONMENT:
- a). SUBSTRUCTURE: EXTREMELY AGGRESSIVE
- b). SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

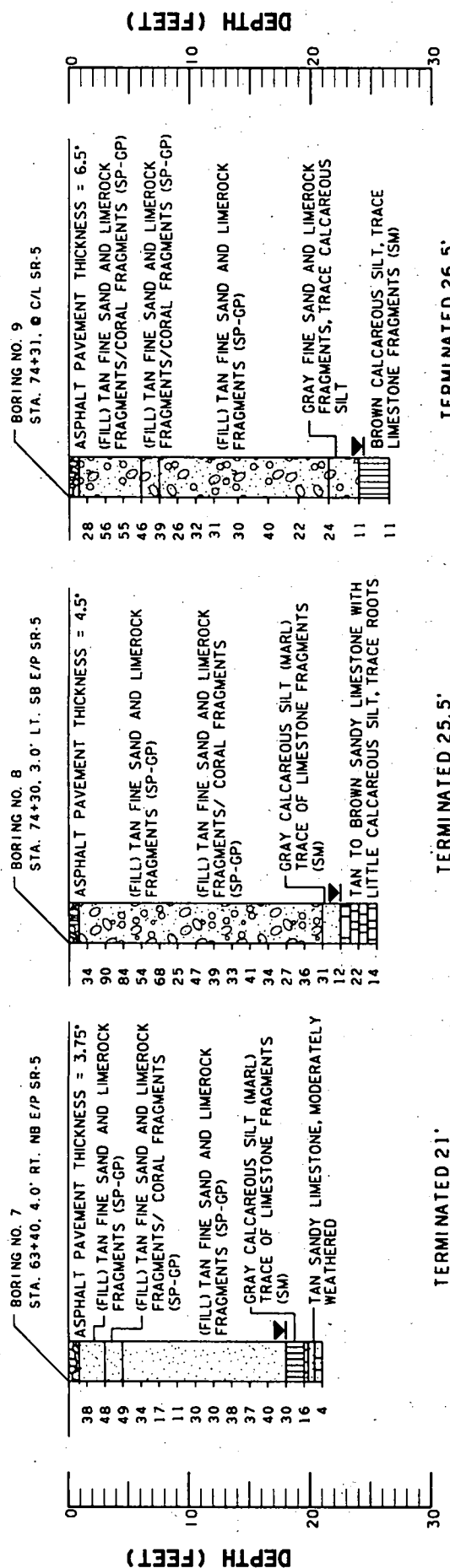
LEGEND

- ASPHALT PAVEMENT
- TOP SOIL WITH FINE SAND
- SANDY LIMESTONE
- WATER TABLE
- FIBROUS ROOTS WITH SOME GLASS FRAGMENTS AND DEBRIS
- FINE SAND AND LIMESTOCK FRAGMENTS, MAY INCLUDE LITTLE TO SOME CORAL FRAGMENTS.
- CALCAREOUS SILT

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE
VERY LOOSE	LESS THAN 3
LOOSE	3-7
MEDIUM DENSE	7-21
DENSE	21-35
VERY DENSE	GREATER THAN 35

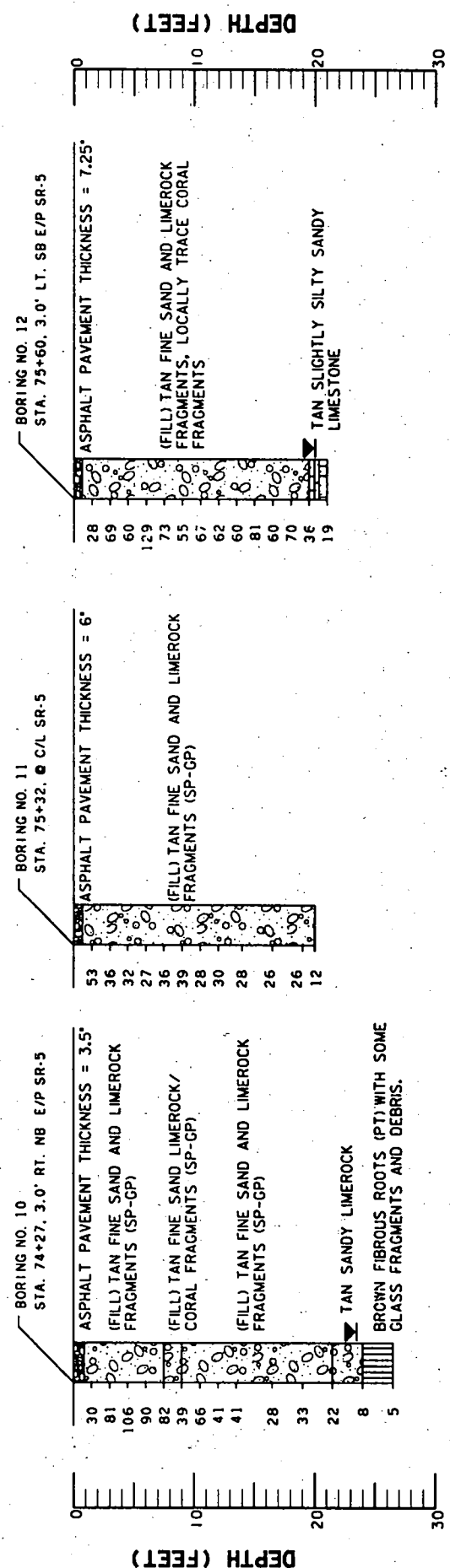
CONSISTENCY	AUTOMATIC HAMMER SPT N-VALUE
VERY SOFT	LESS THAN 1
LOOSE	3-7
MEDIUM	7-21
DENSE	21-35
VERY STIFF	GREATER THAN 21

DAVID C. MIRO, P. E.
REGISTRATION No. 16889
9-20-01



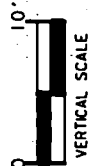
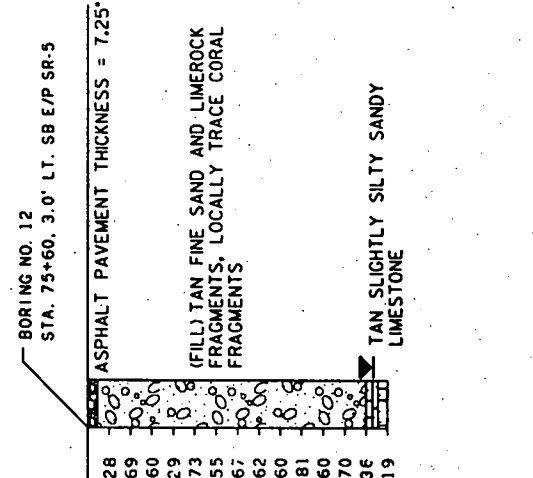
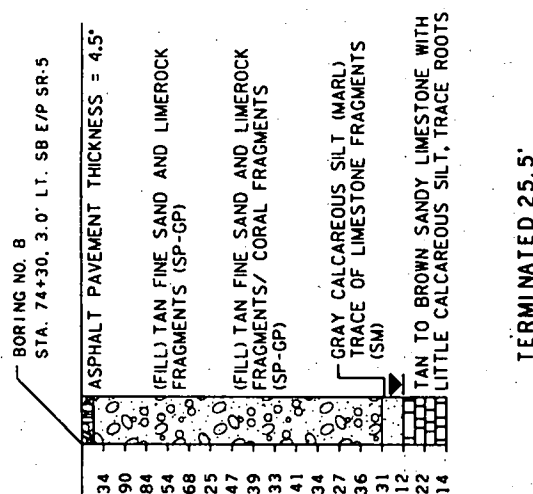
TERMINATED 25.5'

TERMINATED 26.5'



TERMINATED 20' (GNE)

TERMINATED 21'



C/BENTLEY/CURRENT PROJECTS/405641-2

DATE	DESCRIPTION	BY

REVISIONS

Boring Date	08/20-23/27-28/01	ENGINEER OF RECORD	LOGO:
Boring By	PEREZ, LACHUK	STRUCTURES DESIGN OFFICE	FLORIDA DEPARTMENT OF TRANSPORTATION
Drawn by	N. WILSON	STATE PROJECT NO.	SR-5
Checked by	T. WALTERS	COUNTY	MONROE
Approved by	DAVID C. MIRO	FINANCIAL PROJECT NO.	405646-1-52-01

SHEET TITLE: OVERSEAS HIGHWAY (SR-5)

PROJECT NAME: NORTH OF FRONTAGE RD. TO NORTH OF WEIGHT STATION

DWG NO. : INDEX NO. :

GENERAL NOTES

- ALL DEPTHS GIVEN IN DISTANCE BELOW EXISTING GROUND AT BORING LOCATION.
- BORINGS WERE DONE AS PER A.S.T.M. TEST PROCEDURES D-1586-67
- SPOON: INSIDE DIAMETER: 1-3/8" OUTSIDE DIAMETER: 2" WEIGHT: 140 LBS DROP: 30"
- HAMMER: PERCENT PASSING - 200 SIEVE GNE - GROUND WATER NOT ENCOUNTERED
- BORINGS WERE DONE WITH A CME AUTOMATIC HAMMER.
- THE SOIL STRATIFICATION IS REPRESENTATIVE OF THE CONDITIONS AT THE LOCATION WHERE THE BORING WAS MADE BUT CONDITIONS MAY VARY AT ADJACENT LOCATIONS.

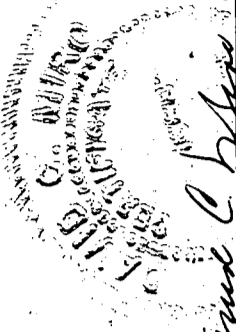
- ENVIRONMENT: EXTREMELY AGGRESSIVE
- SUBSTRUCTURE: EXTREMELY AGGRESSIVE
- SUPERSTRUCTURE: EXTREMELY AGGRESSIVE

LEGEND

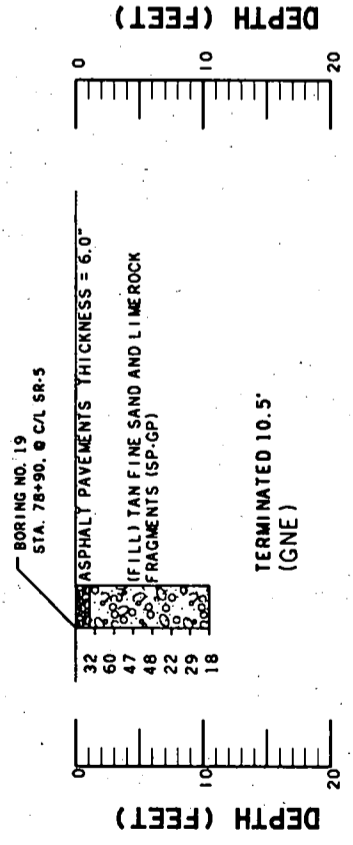
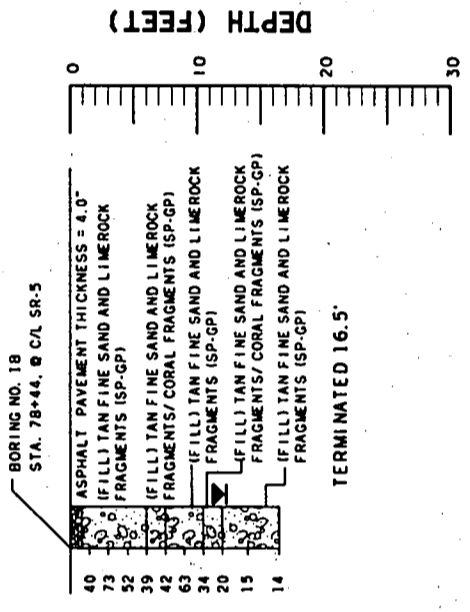
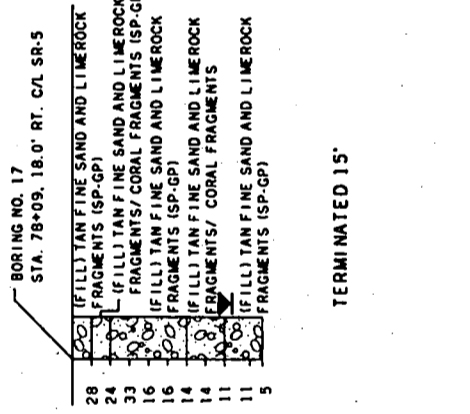
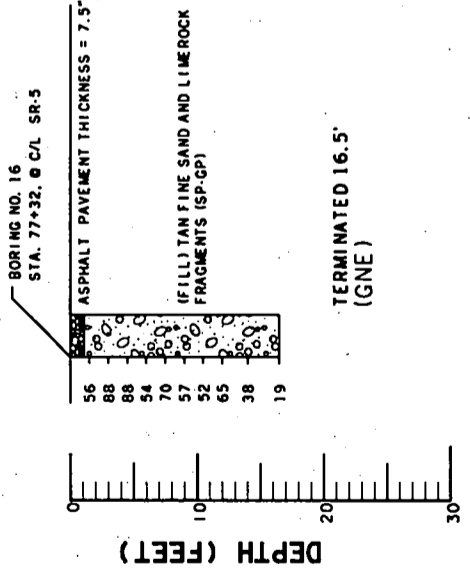
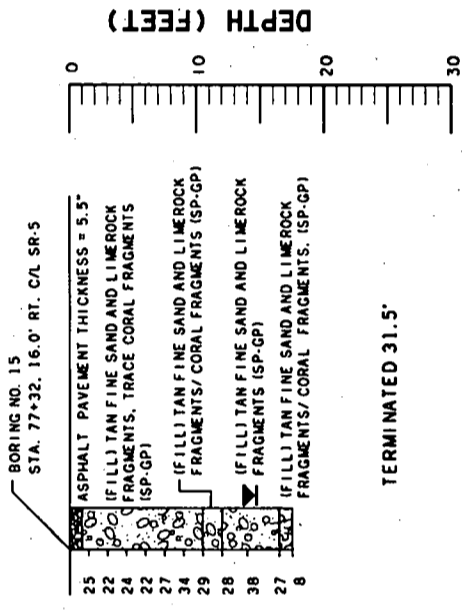
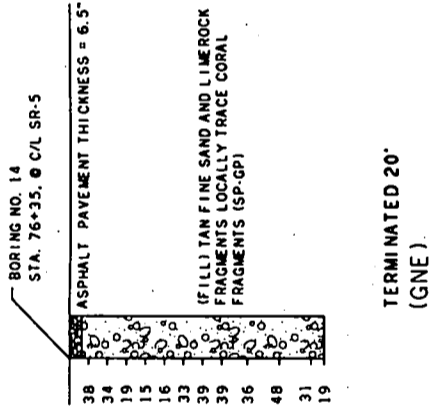
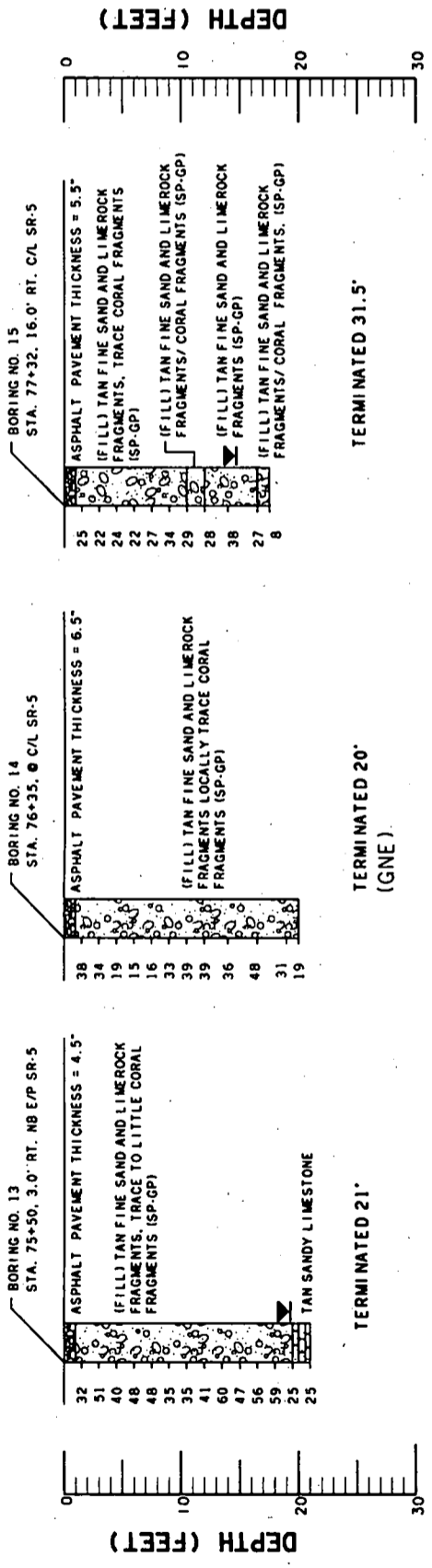
	ASPHALT PAVEMENT		FIBROUS ROOTS WITH SOME GLASS FRAGMENTS AND DEBRIS
	TOP SOIL WITH FINE SAND		FINE SAND AND LIMESTONE FRAGMENTS. MAY INCLUDE LITTLE TO SOME CORAL FRAGMENTS.
	SANDY LIMESTONE		CALCAREOUS SILT
	WATER TABLE		

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE
VERY LOOSE	LESS THAN 3
LOOSE	3-7
MEDIUM DENSE	7-21
DENSE	21-35
VERY DENSE	GREATER THAN 35

CONSISTENCY	AUTOMATIC HAMMER SPT N-VALUE
VERY SOFT	LESS THAN 1
LOOSE	3-7
MEDIUM DENSE	7-21
VERY STIFF	GREATER THAN 21

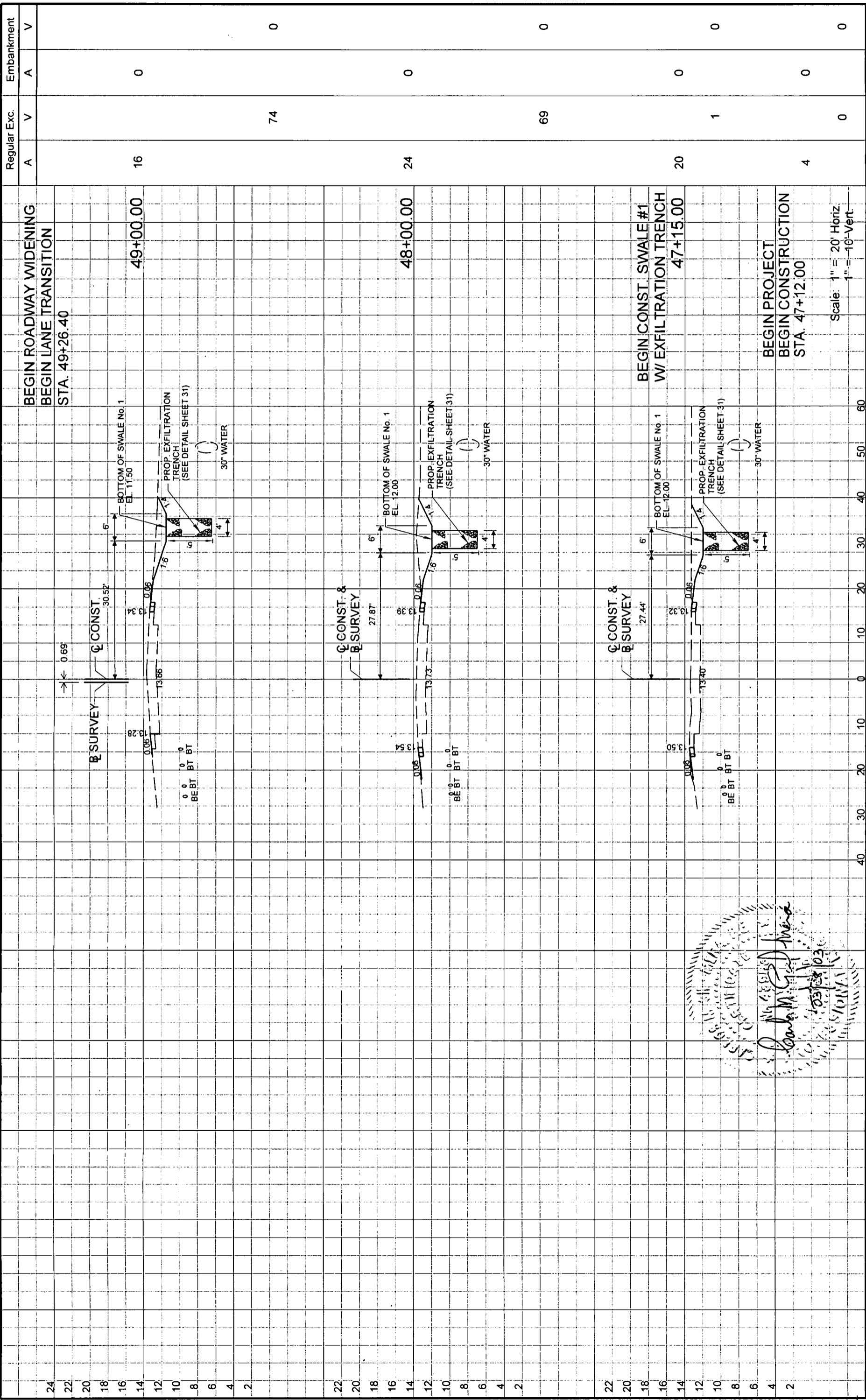


DAVID C. MIRO, P.E. 9-20-01
REGISTRATION No. 16889



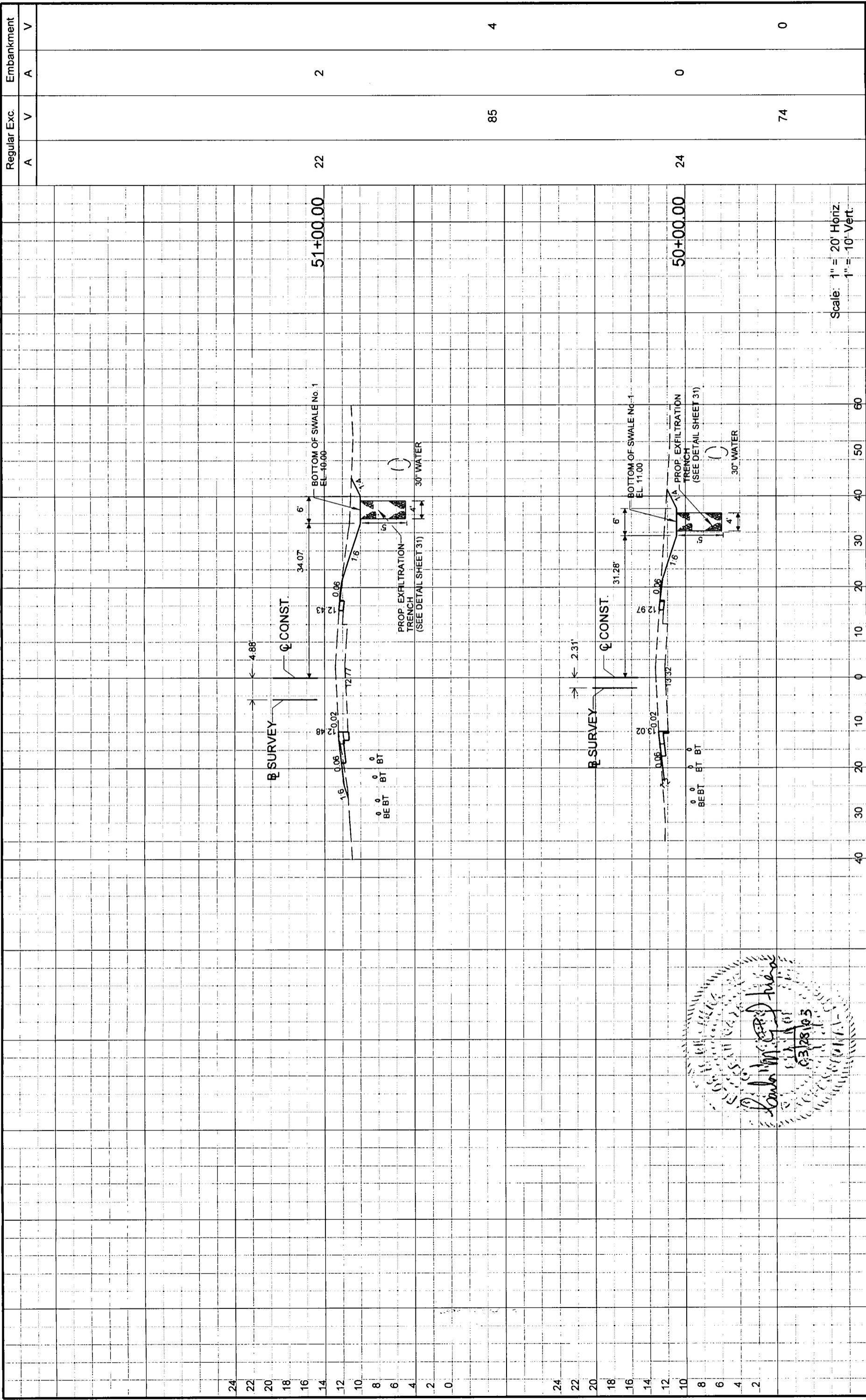
C/BENTLEY/CURRENT PROJECTS/405641-3

REVISONS		Boring Date	08/20-23/27-28/01	ENGINEER OF RECORD	PEREZ, LACHUK	LOGIC	FLORIDA DEPARTMENT OF TRANSPORTATION	
Date	By	Boring By	PEREZ, LACHUK	Drawn By	N. WILSON	STRUCTURES DESIGN OFFICE	ROAD NO.	
Description		Checked By	T. WALTERS	Approved By	DAVID C. MIRO	COUNTY	SR-5	
						STATE PROJECT NO.	N-A	
						FINANCIAL PROJECT NO.	405646-1-52-01	
SHEET TITLE: OVERSEAS HIGHWAY (SR-5)							DWG NO :	
PROJECT NAME: NORTH OF FRONTAGE RD. TO NORTH OF WEIGHT STATION							INDEX NO :	



DATE		DESCRIPTION		DATE		BY		DESCRIPTION	

ENGINEER OF RECORD:		STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION		SHEET NO.	
 A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Miami, FL 33178 (305) 592-7283 / fax (305) 593-1594 support@apoe.com		COUNTY: MONROE ROAD NO.: SR-5 FINANCIAL PROJECT ID: 405646-1-52-01		CROSS SECTIONS		SHEET NO. 36	



Scale: 1" = 20' Horiz.
1" = 10' Vert.

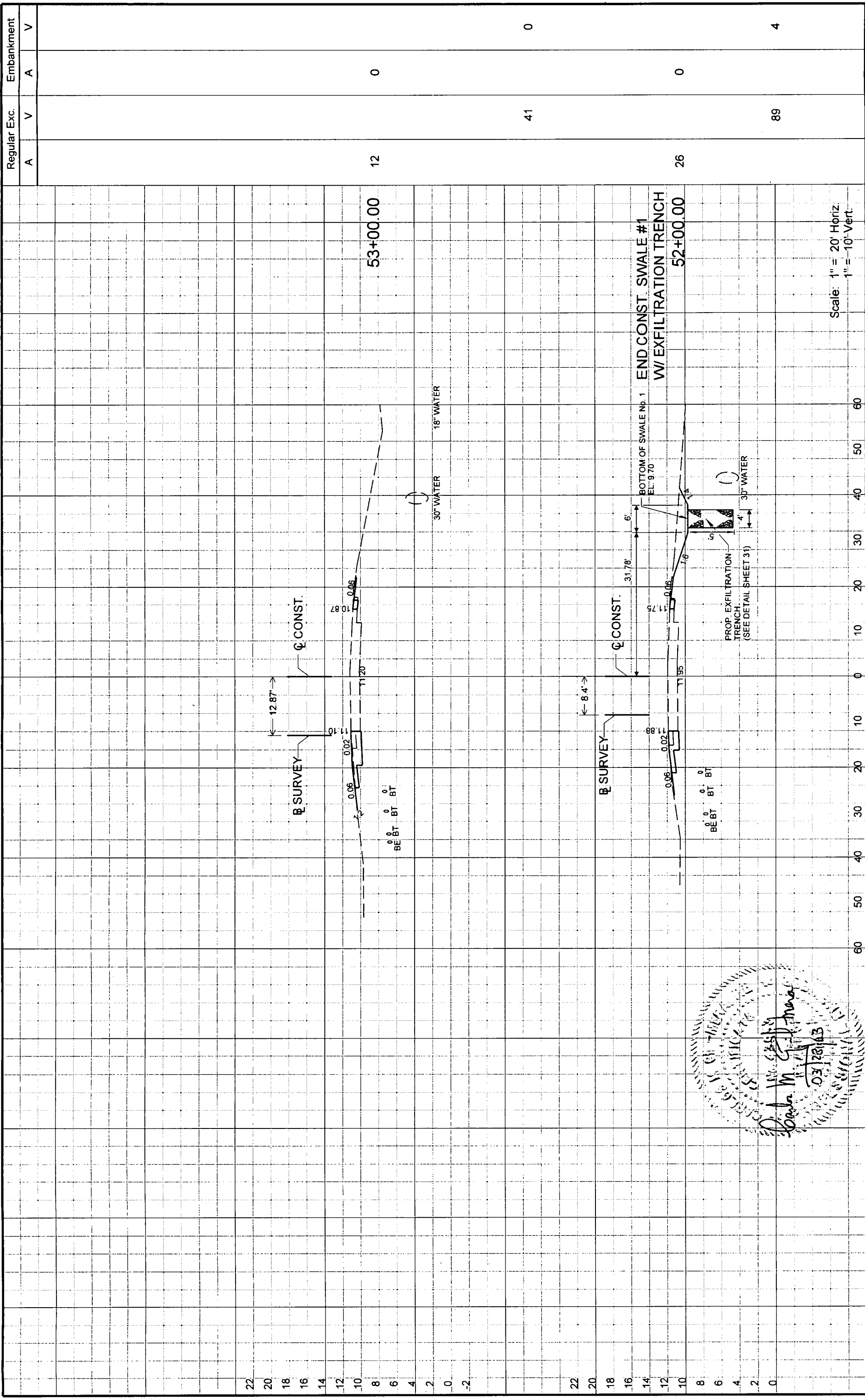
Regular Exc.	Embankment	
	A	V
22	2	0
85	74	0
4		

REVISIONS		DESCRIPTION
DATE	BY	

ENGINEER OF RECORD:		STATE OF FLORIDA	
A&P Consulting Transportation Engineers Corporation 1305 N.W. 41 Street, Suite 115 Mesa, FL 33178 (305) 592-7283 / fax (305) 933-1594 support@apcte.com		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	CROSS SECTIONS
SR-5	MONROE	405646-1-52-01	

DATE	BY	DATE	BY	DESCRIPTION

Handwritten signature and date:
Linda M. [Signature]
03/28/03



Scale: 1" = 20' Horiz.
1" = 10' Vert.

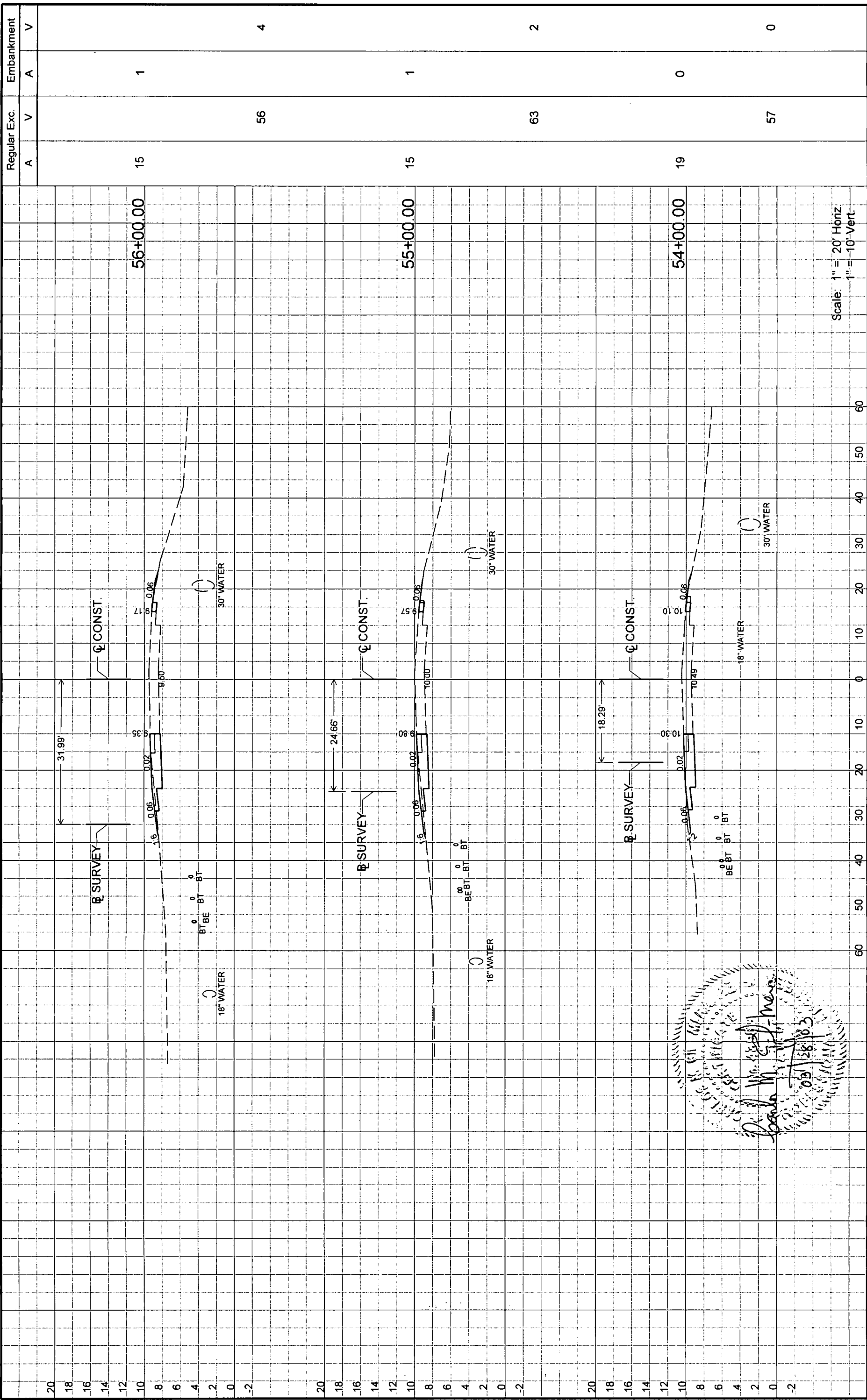
Regular Exc.		Embankment	
A	V	A	V
12	0	0	0
41	0	89	4

REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

ENGINEER OF RECORD:		STATE OF FLORIDA	
 AIP ENGINEERS A&P Consulting Transportation Engineers Corporation 1306 W. 41st Street, Suite 115 Ft. Lauderdale, FL 33311 (305) 527-7283 / fax: (305) 593-1594 support@aip-engineers.com		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

CROSS SECTIONS		SHEET NO.
		38

Handwritten signature and date:
 Date: 03/28/13
 [Signature]



Scale: 1" = 20' Horiz
1" = 10' Vert

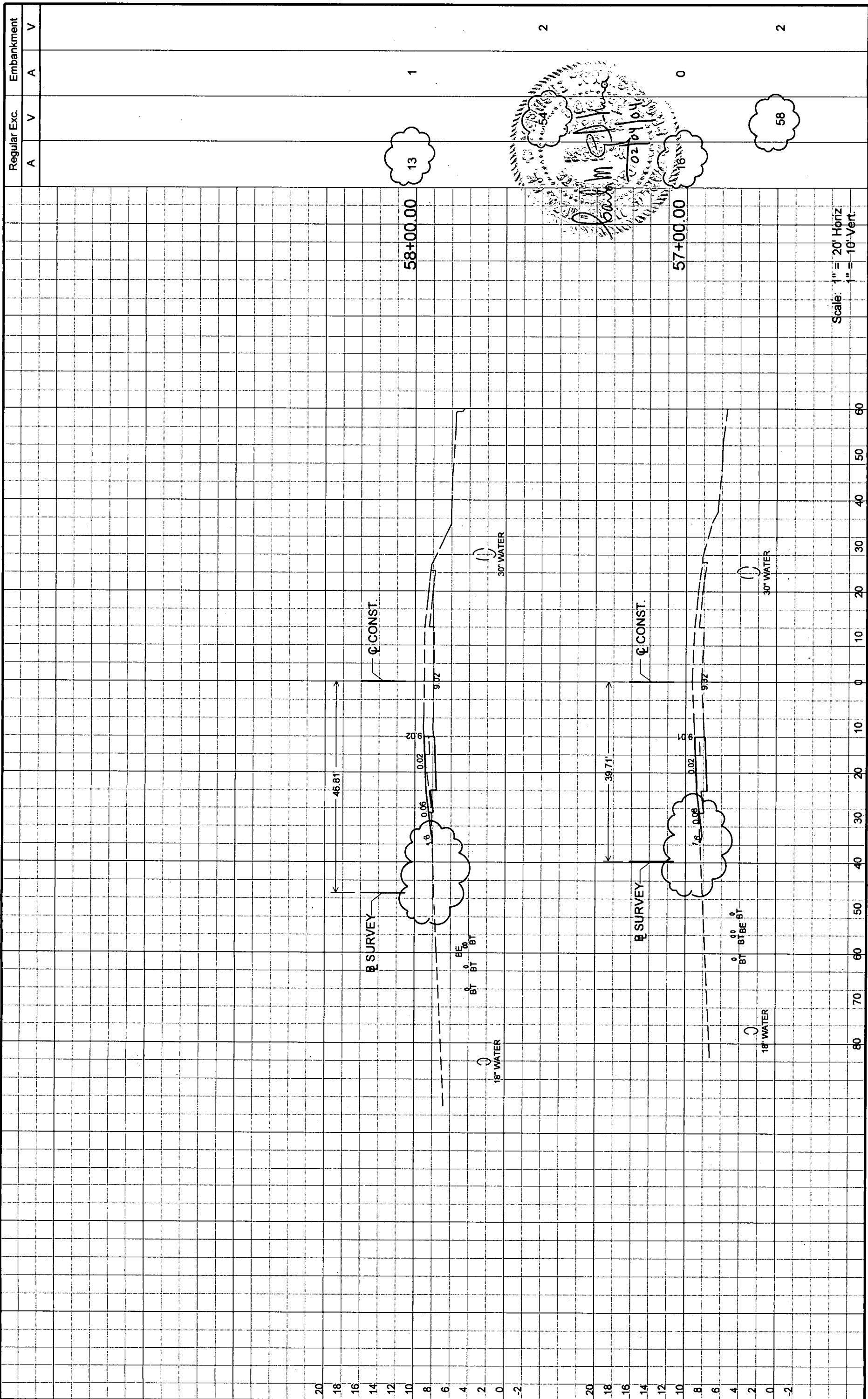
Regular Exc.		Embankment	
A	V	A	V
15	1	1	1
15	1	0	0
56	4	57	0
63	2		

REVISIONS		DESCRIPTION		DATE		BY	

ENGINEER OF RECORD:		STATE OF FLORIDA	
A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Miami, FL 33178 (305) 592-7283 / Fax: (305) 593-1594 support@aapct.com		DEPARTMENT OF TRANSPORTATION	
ROAD NO. SR-5		COUNTY MONROE	
FINANCIAL PROJECT ID 405646-1-52-01			

DATE							
------	--	--	--	--	--	--	--

CROSS SECTIONS



Scale: 1" = 20' Horiz
1" = 10' Vert.

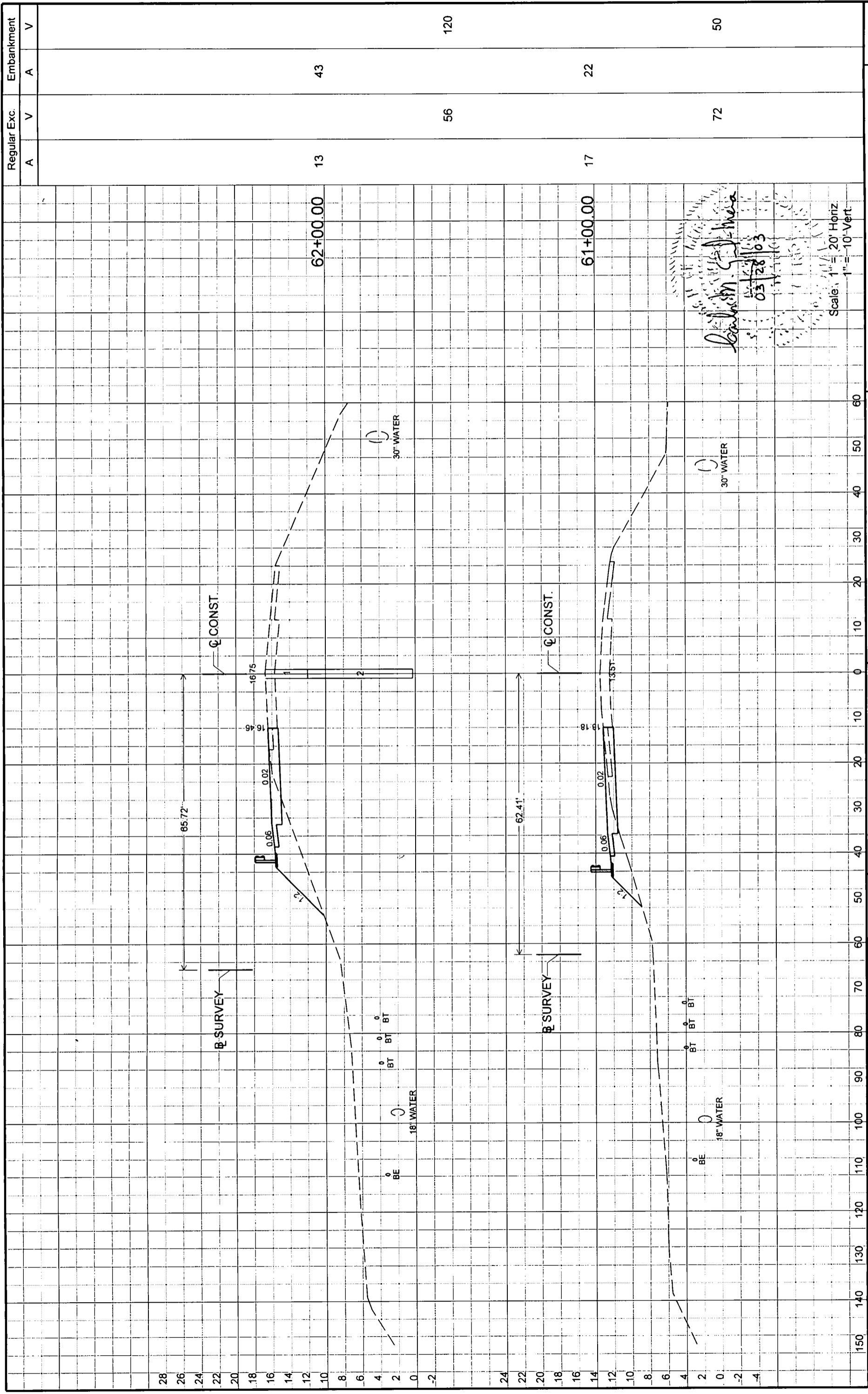
REVISIONS		DESCRIPTION		DATE		BY	
2-04-04	CGM	DELETED SWALE #2. UPDATED EXCAVATION QUANTITIES.					

ENGINEER OF RECORD:		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
A&P Consulting Transportation Engineers Corporation 10305 N.W. 41 Street, Suite 115 Miami, FL 33178 (305) 562-7283 / fax (305) 953-1994 aapp@act-engineers.com		ROAD NO.	SR-5
COUNTY	MONROE	FINANCIAL PROJECT ID	405646-1-52-01

Regular Exc.	A	V	A	V
Embankment				V

SHEET NO.	40
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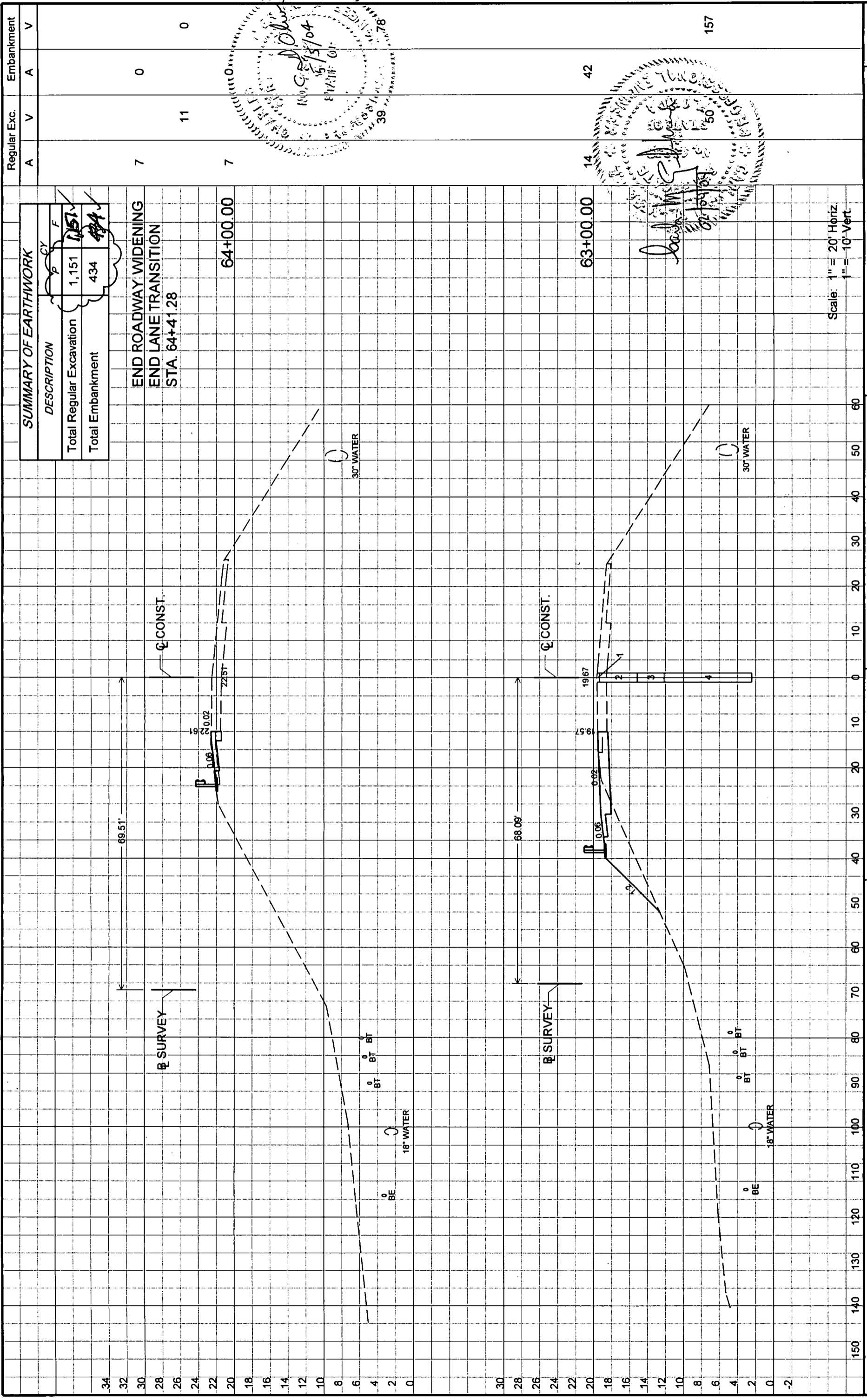
CROSS SECTIONS



Handwritten: 03/28/03
Stamp: Seal, 1" = 20' Horiz, 1" = 10' Vert

Station	Regular Exc.			Embankment		
	A	V	V	A	A	V
62+00.00	13			43		
61+00.00	17			22		
					56	120
					72	50

ENGINEER OF RECORD: A&P Consulting Transportation Engineers Corporation 10305 NW 41 Street, Suite 115 Miami, FL 33187 (305) 592-7283 Fax: (305) 593-1594 support@apcte.com		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. SR-5 COUNTY MONROE FINANCIAL PROJECT ID 405646-1-52-01		SHEET NO. 42
REVISIONS DATE BY DESCRIPTION		CROSS SECTIONS		



SUMMARY OF EARTHWORK

DESCRIPTION	CY	P	F
Total Regular Excavation	1,151	151	
Total Embankment	434	434	

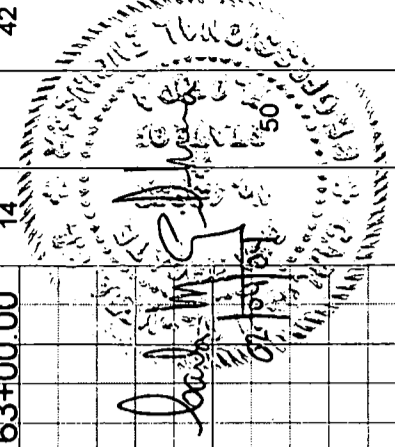
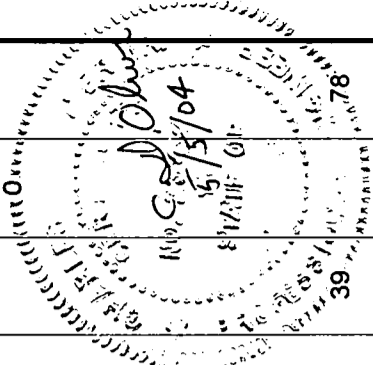
END ROADWAY WIDENING
 END LANE TRANSITION
 STA. 64+41.28

64+00.00

63+00.00

Scale: 1" = 20' Horiz
 1" = 10' Vert

Regular Exc.	Embankment	
	A	V
7	0	0
11	0	0
7	0	0
14	42	157



DATE		DESCRIPTION	
2-04-04	CGM	UPDATED SUMMARY OF EARTHWORK	EXCAVATION QUANTITIES
REVISIONS		ENGINEER OF RECORD:	
DATE	BY	A&P Consulting Transportation Engineers Corporation 10025 N.W. 41st Street, Suite 115 (305) 592-7283 / fax (305) 593-1564 support@apcte.com	
STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	
CROSS SECTIONS		SHEET NO.	
		43	

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES:

- THE FOLLOWING NARRATIVE AND REFERENCED DOCUMENTS.
- THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND
- REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0. SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS MILLING & RESURFACING ROAD, WIDENING 1 FEET EXISTING (L.T. & RT) SHOULDERS, CLEARING & GRUBBING UP TO 10 FEET MEASURED FROM THE EDGE OF EXISTING PAVEMENT, PLACING 1'-4" OF BAHIA SODDING ALONG LENGTH OF PROJECT, AND CONSTRUCTION OF SODDED SWALES AND DRAINAGE STRUCTURES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES GIVEN DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE CLEARING AND GRUBBING OTHER AREAS OF THE SITE.

- SHOULDER WIDENING,
- CLEARING AND GRUBBING,
- CONSTRUCTION OF EXFILTRATION TRENCHES..
- CONSTRUCTION OF SODDED SWALES.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 27.11 AC.

TOTAL AREA TO BE DISTURBED: 2.27 AC.

1.D. RUNOFF DATA

RUNOFF COEFFICIENTS:

BEFORE: 0.75

DURING: 0.75

AFTER: 0.75

SOILS DATA: ROADWAY SOIL SURVEY INFORMATION AT SPECIFIC LOCATIONS IS INDICATED ON SHEETS 32 THROUGH 35.

OUTFALL INFORMATION: N/A

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED BELOW ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE ROADWAY PLANS.
- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE ROADWAY PLANS AND THE CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- LOCATIONS OF CONTROLS: THE TEMPORARY CONTROLS (SILT FENCES) WILL BE INSTALLED AT LOCATION INDICATED ON THE ROADWAY PLANS. TABLE PROVIDING SUMMARIES OF SILT FENCES IS PROVIDED ON THE SUMMARY OF QUANTITIES SHEET.
- RECEIVING WATERS: ATLANTIC OCEAN & GULF OF MEXICO.

2.0. CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES FOR STABILIZATION AND STRUCTURAL PRACTICES ARE BASED ON THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN SECTION 104 EROSION AND SEDIMENT CONTROL PLAN, SUBJECT TO APPROVAL FROM THE ENGINEER.

FOR ALL PHASES OF CONSTRUCTION, INSTALL PERIMETER CONTROLS SUCH AS SILT FENCES BEFORE DISTURBING SOIL UPLAND OF THE CONTROLS.

2.A.1. STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 14 DAYS. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED THE STABILIZATION PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

TEMPORARY:

- SILT FENCE IN ACCORDANCE WITH SPECIFICATION SECTION 102.

PERMANENT:

- ASPHALT OR CONCRETE SURFACE.
- SOD IN ACCORDANCE WITH SPECIFICATION SECTION 575.

OTHER:

- STOCKPILED MATERIALS SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED WITH EROSION CONTROL FEATURES MATERIALS.
- ROLL AND COMPACT ALL UNSODDED AREAS AT THE END OF THE DAY. SOD ALL DESIGNATED AREAS WITHIN 48 HOURS OF SHOULDER COMPLETION. IF PLASTIC BACKING MATERIAL IS USED IN SODDING, IT MUST BE REMOVED BEFORE PLACING SOD.

2.A.2. STRUCTURAL PRACTICES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ALL SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING.

TEMPORARY:

- SILT FENCE IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.

PERMANENT:

- SOD.
- STORM WATER MANAGEMENT: BASED ON LATERAL SWALES THAT DISCHARGE INTO THE OCEAN. NEW SYSTEM WILL INCLUDE RETENTION AREAS AT SELECTED LOCATIONS WITH SPILLWAYS.

2.C. OTHER CONTROLS:

2.C.1. WASTE DISPOSAL:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIAL, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. AT A MINIMUM, THE PROPOSED METHODS SHALL:

- PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- DISPOSE OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- DISPOSE OF ALL SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIAL OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2. OFF SITE VEHICLE TRACKING:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF SITE VEHICLE TRACKING OF SEDIMENT AND GENERATING DUST. AT A MINIMUM, THE PROPOSED METHODS SHALL INCLUDE:

- COVERING LOADED HAUL TRUCKS WITH TARPAULIN.
- REMOVING EXCESS DIRT FROM ROADS DAILY.
- STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS. BROOM MACHINES ARE NOT PERMITTED.

A PLAN FOR WASHOUT AND DISPOSAL OF SURPLUS CONCRETE MUST BE PROVIDED IN CONTRACTOR'S SECTION 104 EROSION AND SEDIMENT CONTROL PLAN.

2.C.3. STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4. FERTILIZERS AND PESTICIDES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF EITHER SECTION 570 OR 577 OF THE FDOT STANDARD SPECIFICATIONS.

2.C.5. TOXIC SUBSTANCES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D. STATE AND LOCAL PERMITS TO BE APPLIED FOR:

- SPWMD (NON-NOTICE GENERAL PERMIT)
- EPA/DFEP NPDES PERMIT.

3.0. MAINTENANCE:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- SILT FENCE: MAINTAIN PER SECTION 104.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

4.0. INSPECTIONS:

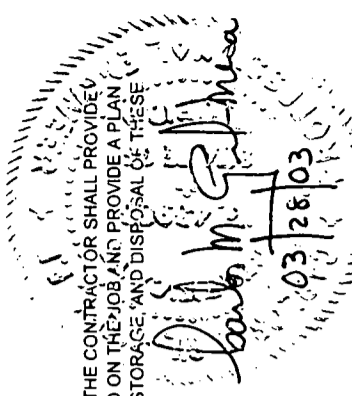
ALL EROSION CONTROL FEATURES ARE TO BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.25" OR GREATER. WHERE SITES HAVE PERMANENTLY STABILIZED, AN INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY 30 DAYS. IN ADDITION, A DAILY REVIEW OF THE LOCATION OF EROSION CONTROL DEVICES SHALL BE MADE IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CHANGED THE NATURAL COURSE AND DRAINAGE RUNOFF. IN ORDER TO ENSURE THAT SILT FENCES AND OTHER EROSION CONTROL DEVICES ARE PROPERLY LOCATED FOR EFFECTIVENESS.

A FORM ACCEPTABLE TO THE FDOT WILL BE USED TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. EACH INSPECTION REPORT SHALL BE SIGNED AND SUBMITTED WEEKLY TO THE PROJECT ENGINEER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITH 24 HOURS OF BEING NOTED IN CONTRACTOR'S INSPECTION REPORT.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0. NON STORM WATER DISCHARGES:

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 "EROSION CONTROL PLAN." IF AREA OF UNIDENTIFIED CONTAMINATION ARE ENCOUNTERED, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR AT (305) 470-5220.



REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

ENGINEER OF RECORD:

A&P Consulting Transportation Engineers Corporation
10305 N.W. 41 Street, Suite 115
Miami, FL 33178
(305) 563-1594 / fax: (305) 563-1594
aandp@ape.com

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

US-1 / (OVERSEAS HWY.)
STORM WATER POLLUTION
PREVENTION PLAN

SHEET NO. 44

GENERAL NOTES

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FLORIDA DOT DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA.
2. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHoles THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
3. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY SUBMITTING THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA THROUGH THE ENGINEER TO THE DISTRICT TRAFFIC OPERATIONS OFFICE.
4. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
5. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
6. LANE CLOSURE FOR PHASE II AND III SHALL OCCUR ONLY SUNDAY THROUGH THURSDAY BETWEEN THE HOURS OF 8:00 PM TO 6:00 AM. NO EXISTING LANES SHALL BE CLOSED ON SATURDAY, SUNDAY, OR ANY HOLIDAY. NO EXISTING LANES SHALL BE CLOSED ON A FRIDAY PRECEDING A SATURDAY HOLIDAY OR THE MONDAY FOLLOWING A SUNDAY HOLIDAY.
7. NO EXISTING LANES SHALL BE CLOSED DURING KEYS SPECIAL EVENT DATES AS DETERMINED BY THE ENGINEER. THE ENGINEER MAY ADJUST LANE CLOSURE TIMES IF CONDITIONS WARRANT.
8. TRAFFIC CONTROL PLANS FOR PHASES II AND III ARE DESIGNED FOR NON-PEAK HOURS ONLY. THE CONTRACTOR SHALL KEEP ALL EXISTING LANES OPEN DURING PEAK HOURS IN THESE PHASES.
9. THE CONTRACTOR SHALL NOT PROPOSE AN ALTERNATIVE TRAFFIC CONTROL PLAN THAT REDUCES THE NUMBER OF TRAVEL LANES SHOWN ON THE CONTRACT TRAFFIC CONTROL PLANS.
10. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
11. REGULATORY SPEED ESTABLISHED WITHIN WORK ZONE TRAVEL WAYS SHALL BE 40 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE STANDARD INDEXES.
12. CONTRACTOR SHALL REMOVE, RELOCATE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS, WHEN THE CONFLICT NO LONGER EXISTS. THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
13. ARROWS ON THE TCP DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.
14. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

DROP - OFFS

15. FOR DROP-OFFS, THE CONTRACTOR'S ATTENTION IS DIRECTED TO STANDARD INDEX NO. 600, SHEET 6 OF 10. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.

MARKINGS

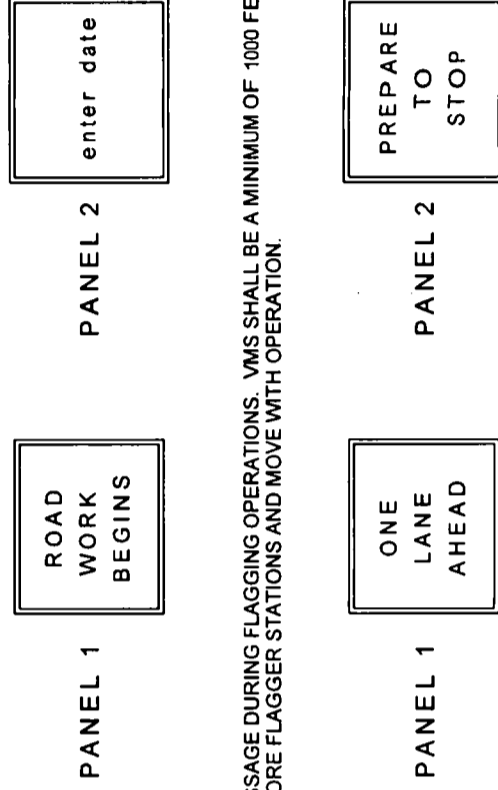
16. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. GRINDING OR MILLING WITHOUT ASPHALT OVERLAY SHALL ONLY BE PERMITTED IN NON TRAFFIC AREAS AS DESIGNATED BY THE ENGINEER. COST OF REMOVAL OF TEMPORARY PAVEMENT MARKINGS, REGARDLESS OF METHOD IS INCLUDED IN THE RELATED PAVEMENT MARKING PAY ITEMS. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.
17. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FEET ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2-4 FT SKIP LINES WILL BE PLACED.
18. THE WORK ZONE FOR A PAVING OPERATION SHALL NOT BE MORE THAN 0.5 MILE.
19. ALL MILLED SURFACES SHALL BE PAVED PRIOR TO OPENING TO TRAFFIC.
20. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS

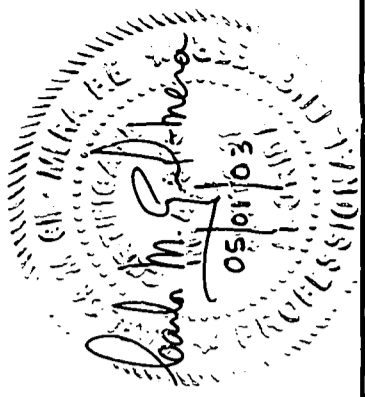
ADVANCE CONSTRUCTION NOTICE

21. THE CONTRACTOR SHALL FURNISH AND MAINTAIN VARIABLE MESSAGE SIGNS AT LOCATIONS SHOWN ON THE PLANS. MESSAGES FOR THE VMS SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE VMS SHALL BE IN PLACE ONE WEEK BEFORE THE START OF ANY WORK ITEMS AFFECTING THE EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC. VMS INSTALLATION, OPERATION, AND REMOVAL BEFORE CONSTRUCTION BEGINS SHALL BE PAID UNDER PAY ITEM 102-1, MAINTENANCE OF TRAFFIC. VMS INSTALLATION, OPERATION, AND REMOVAL DURING CONSTRUCTION SHALL BE PAID UNDER PAY ITEM 102-99, VARIABLE MESSAGE SIGN.

A) MESSAGE PRIOR TO CONSTRUCTION STARTING.



B) MESSAGE DURING FLAGGING OPERATIONS. VMS SHALL BE A MINIMUM OF 1000 FEET BEFORE FLAGGER STATIONS AND MOVE WITH OPERATION.



REVISIONS		DESCRIPTION	DATE	BY

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
SR-5	MONROE	405646-1-52-01	

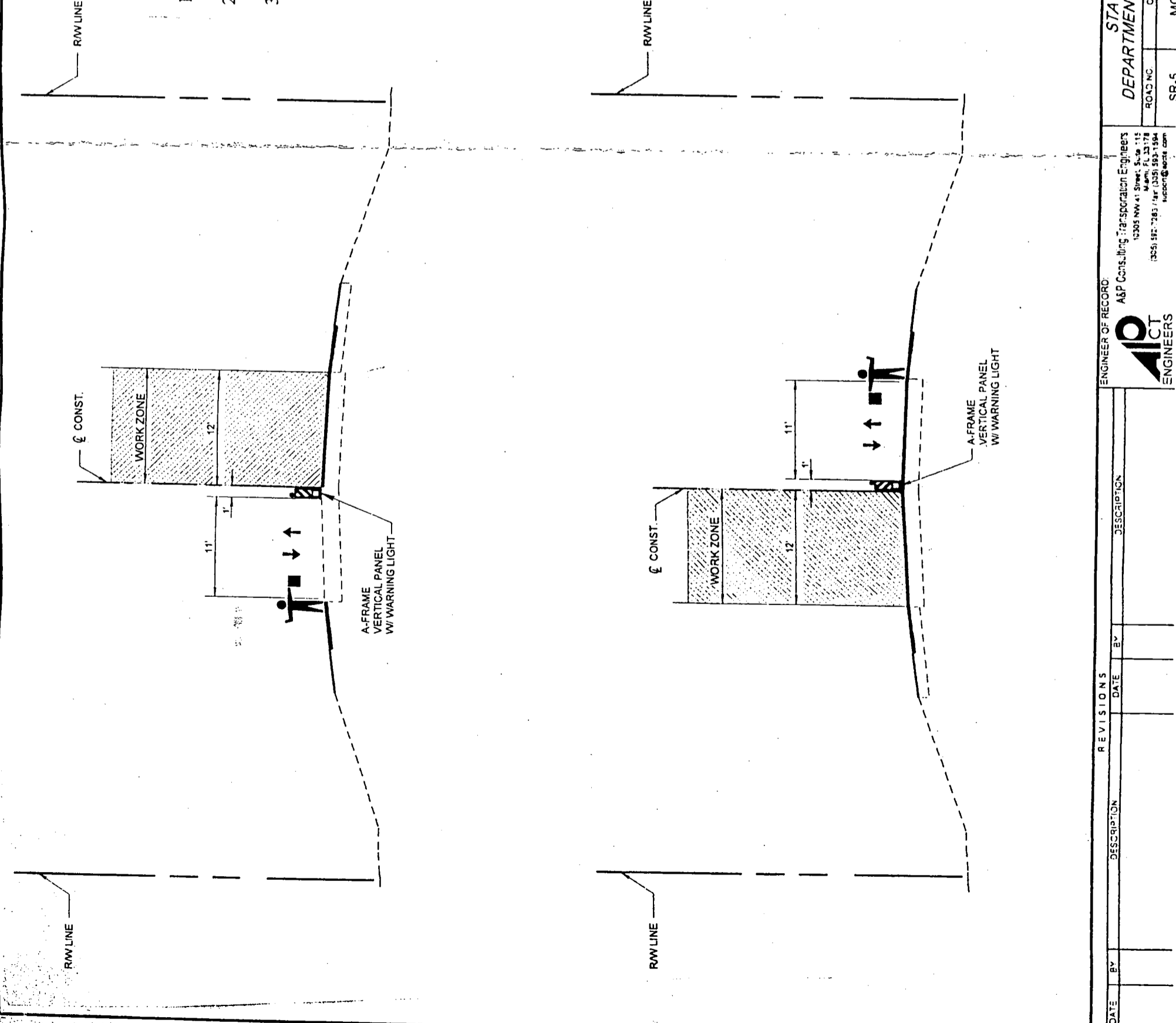
SHEET NO. 45

PHASE I

1. Mill the northbound lane and existing paved shoulder according to the pavement design.
2. Resurface the northbound lane and paved shoulder according to pavement design. Place striping and rpm's as per signing & pavement marking sheets.
3. Workzone for paving operation shall not be more than 0.5 mile. Use index No. 604.

PHASE II

1. Mill the southbound lane and existing paved shoulder according to the pavement design.
2. Resurface the southbound lane and paved shoulder according to the pavement design. Place striping and rpm's as per signing & pavement marking sheets.
3. Work zone for paving operation shall not be more than 0.5 mile. Use index no. 604.



STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 SR-5 MONROE A05246 1 57 01

KEITH AND SCHWARS, P.A.
 JAN 16
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IGNACIO HALLEY, P.E.
 FL REG# 01534
 SHEET NO. 16

TRAFFIC CONTROL PLAN

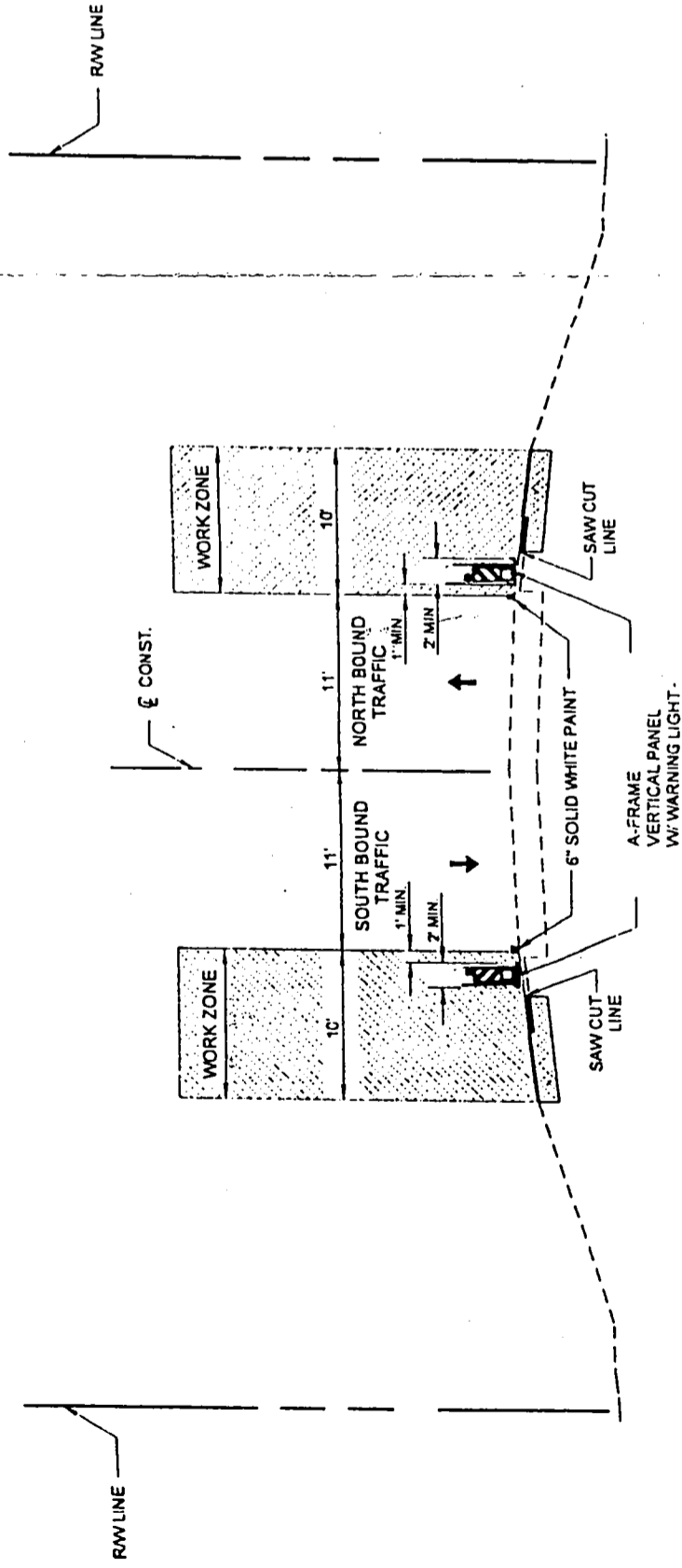
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 SR-5 MONROE A05246 1 57 01

ENGINEER OF RECORD:
 A&P Consulting Transportation Engineers
 10305 NW 41st Street, Suite 115
 Miami, FL 33178
 (305) 582-7283 / Fax (305) 582-1984
 aap@apct.com

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

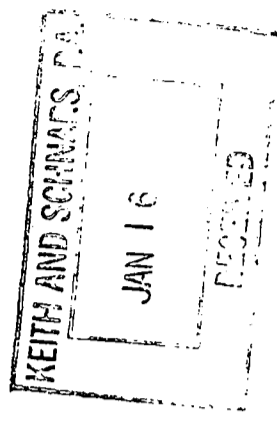
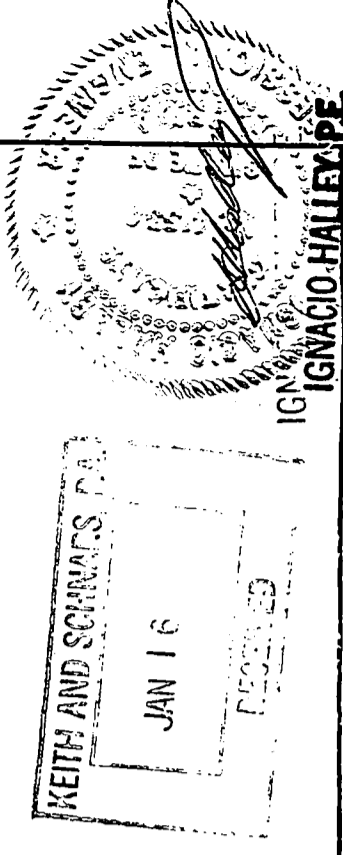


PHASE III



1. Saw Cut existing asphalt pavement average 3' from the existing edge of pavement (lane line).
2. Widen shoulder according to the pavement design except for Friction Course. Work zone for widening operation shall not be more than 0.5 mile. Use index no. 602.
3. Construct swales with exfiltration trench and drainage structures as shown on roadway plans.
4. Roadway widening from sta 49+26.40 to Sta. 64+41.82 as shown on roadway plan sheets from 12 thru 15.
5. Roll and compact all unsodded areas at the end of the day.
6. For environmental erosion control purposes, place sod on shoulders, swales, and berms within 48 hours after each activity completion. If plastic backing material is used in sodding, it must be removed before placing sod.
7. Install guardrail as shown on roadway plans.
8. Complete one side of the workzone at a time.

Note: install and maintain silt fence in accordance with specifications section 102.



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO. _____ COUNTY _____	FINANCIAL PROJECT ID _____	
ENGINEER OF RECORD: A&P Consulting Transporation Engineers 10305 NW 4 th Street, Suite 115 Vero Beach, FL 33178 Phone: (305) 562-7283 / Fax: (305) 593-1594 a.p.e. @ a.p.e. com		
REVISIONS		
DATE	BY	DESCRIPTION
TRAFFIC CONTROL PLAN		FL REG# 41534 1/15/08

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3-5	TYPICAL SECTIONS
6	TYPICAL SECTIONS DETAILS
7	SUMMARY OF QUANTITIES
8	SUMMARY OF DRAINAGE STRUCTURES
9	OPTIONAL MATERIALS TABULATION
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11	GENERAL NOTES
12-15	PRIMARY NETWORK CONTROL
16-25	ROADWAY PLANS
26-28	SPECIAL PROFILES
29-32	DRAINAGE STRUCTURES
33-34	MISCELLANEOUS DRAINAGE DETAILS
35	MISCELLANEOUS DETAILS
36-37	ROADWAY SOILS SURVEY
38-43	SOIL PROFILES
44	REPORT OF CORE BORINGS
45-65	CROSS SECTIONS
66-67	STORMWATER POLLUTION PREVENTION PLAN
68-71	TRAFFIC CONTROL PLAN

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2006,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01/01/08
For Design Standards Modifications click on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>

REVISIONS:

INDEX OF FINAL PLANS

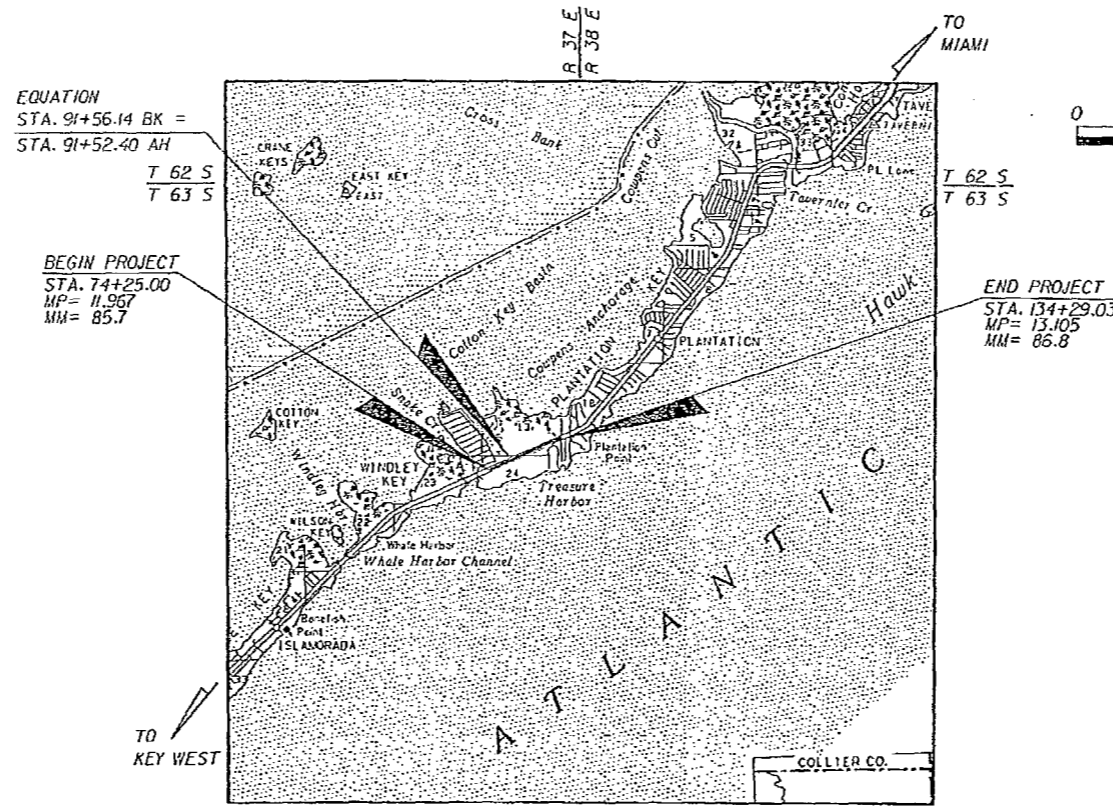
FIELD BOOK- 1(EA)
COMPUTATION SHEETS BINDER 1(EA)

[Signature]
P.E. 63115
8/6/09

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
FINAL "AS-BUILT" PLANS
CONTRACT PLANS

FINANCIAL PROJECT ID 405582-8-52-01
(FEDERAL FUNDS)
MONROE COUNTY (90060)

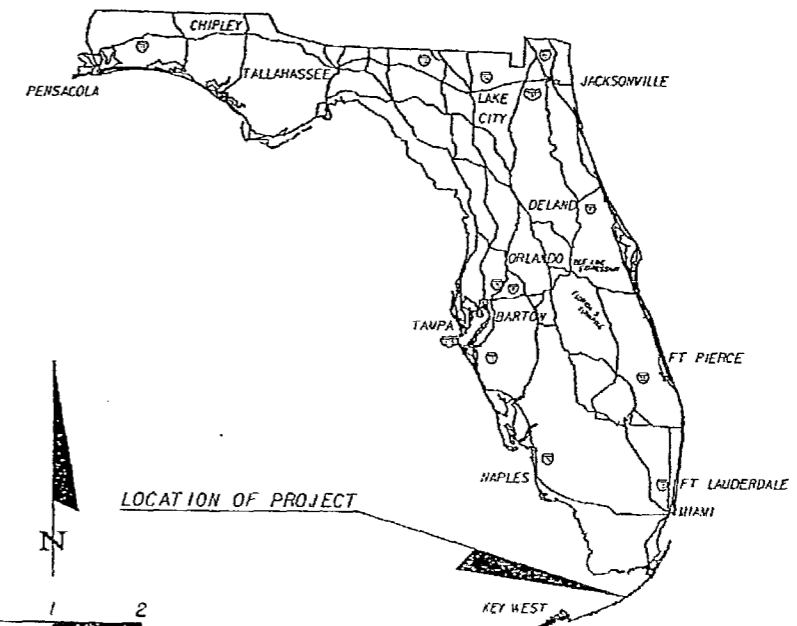
STATE ROAD NO. 5 / (US-1/OVERSEAS HIGHWAY)
FROM NORTH OF SNAKE CREEK BRIDGE
TO EAST RIDGE ROAD ON PLANTATION KEY



EQUATION
STA. 91+56.14 BK =
STA. 91+52.40 AH
T 62 S
T 63 S

BEGIN PROJECT
STA. 74+25.00
MP= 11.967
MM= 85.7

END PROJECT
STA. 134+29.03
MP= 13.105
MM= 86.8



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
FERNANDO V. GOMEZ, P.E.
BOLTON, PEREZ & ASSOCIATES
7205 NW 19 ST, SUITE 201
MIAMI, FLORIDA 33126.

PLANS PREPARED BY:
BOLTON, PEREZ & ASSOCIATES
7205 NW 19 ST, SUITE 201
MIAMI, FLORIDA 33126.
CONTRACT NO. C-8F89
VENDOR NO. F-65-0789352-001
FL CERTIFICATE OF AUTHORIZATION
NO. 7904

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

Name of Contractor:	General Asphalt Co., Inc.
Name of Consultants Involved:	Metric Engineering, Inc.
District Secretary:	Gus Pego, P.E.
Resident Engineer:	Mario Cabrera, P.E.
Senior Project Engineer:	Roland A. Rodriguez, P.E.
Project Administrator:	Felix Rodriguez
Date Work Started:	9/8/2009
Date Work Conditionally Accepted:	N/A
Date Work Final Accepted:	7/7/2009

This Project was constructed in substantial compliance
with these plans as provided by the Engineer of Record.
If changes were made those changes are indicated in
by black ink revision and bear the seal, signature
and date of the Responsible Engineer.

PROJECT LENGTH IS BASED ON % OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	6,007.77	1.138
BRIDGES	-	-
NET LENGTH OF PROJECT	6,007.77	1.138
EXCEPTIONS	-	-
GROSS LENGTH OF PROJECT	6,007.77	1.138

FDOT PROJECT MANAGER: ANA T. ARVELO, PE

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: FERNANDO V. GOMEZ, P.E.

P.E. NO.: 43956

FISCAL YEAR	SHEET NO.
08	1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

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616714

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

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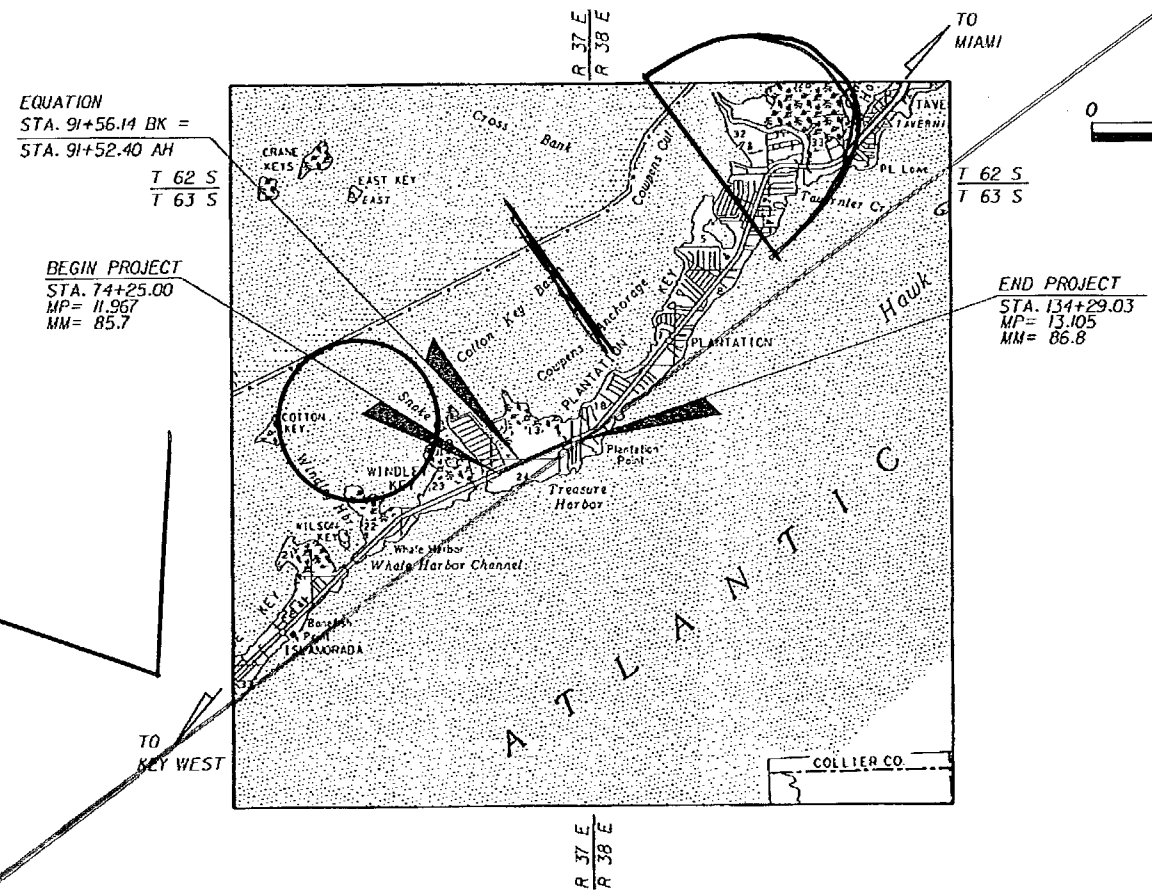
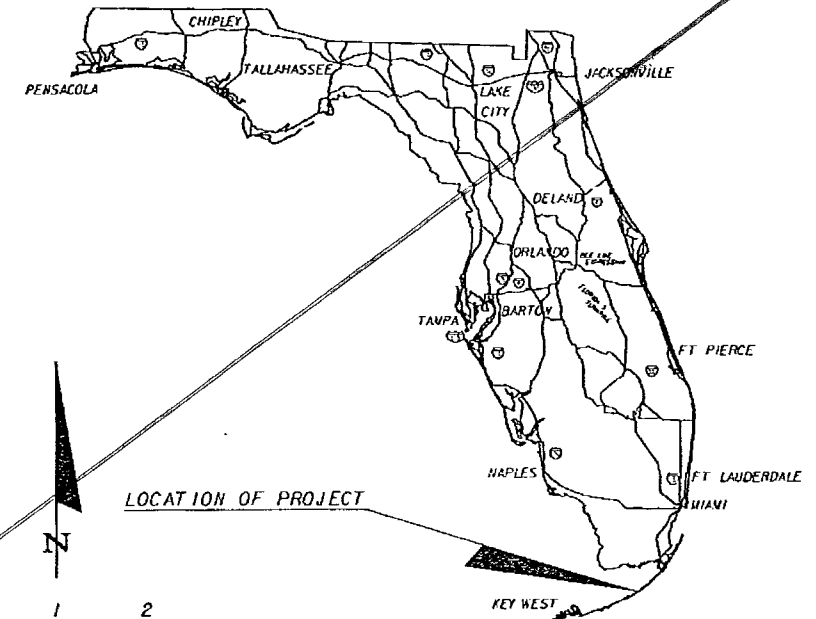
REVISIONS:

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION


CONTRACT PLANS

FINANCIAL PROJECT ID 405582-8-52-01
(FEDERAL FUNDS)
MONROE COUNTY (90060)

STATE ROAD NO. 5 / (US-1/OVERSEAS HIGHWAY)
FROM NORTH OF SNAKE CREEK BRIDGE
TO EAST RIDGE ROAD ON PLANTATION KEY



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
FERNANDO V. GOMEZ, P.E.
BOLTON, PEREZ & ASSOCIATES
7205 NW 19 ST, SUITE 201
MIAMI, FLORIDA 33126.

PLANS PREPARED BY:

BOLTON, PEREZ & ASSOCIATES
7205 NW 19 ST, SUITE 201
MIAMI, FLORIDA 33126.
CONTRACT NO. C-8F89
VENDOR NO. F-65-0789352-001
FL CERTIFICATE OF AUTHORIZATION
NO. 7904

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

PROJECT LENGTH IS BASED ON $\frac{1}{2}$ OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	6,007.77	1.138
BRIDGES	-	-
NET LENGTH OF PROJECT	6,007.77	1.138
EXCEPTIONS	-	-
GROSS LENGTH OF PROJECT	6,007.77	1.138

FDOT PROJECT MANAGER: ANA T. ARVELO, PE

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: FERNANDO V. GOMEZ, P.E.

P.E. NO.: 43956

FISCAL YEAR	SHEET NO.
08	1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6165-23.003, F.A.C.

0001 SUMMARY OF ROADWAY		PAY ITEMS		QUANTITY	TOTAL
ITEM NUMBER	ITEM DESCRIPTION	UNIT	40558285201		
10101-1	MOBILIZATION	ILS	1.000 N		1.000
10102-1	MAINTENANCE OF TRAFFIC	ILS	1.000 N		1.000
10102-14	TRAFFIC CONTROL OFFICER	LWH	48.000 N		48.000
10102-60	WORK ZONE SIGNS	IED	3000.000 N		3000.000
10102-61	BUSINESS SIGNS	IEA	10.000 N		10.000
10102-74	BARRICADE, TEMPORARY, TYPES 1, 11, D1, VP & DRUM	IED	32500.000 N		32500.000
10102-76	ADVANCE WARNING ARROW PANEL	IED	500.000 N		500.000
10102-77	HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B	IED	1000.000 N		1000.000
10102-78	REFLECTIVE PAVEMENT MARKER, TEMPORARY	IEA	724.000 N		724.000
10102-99	CHANGEABLE-VARIABLE MESSAGE SIGN, TEMPORARY	IED	500.000 N		500.000
10104-13	STAKED SILT FENCE, TYPE 111	ILF	12156.000 N		12156.000
10104-16	ROCK BAGS	IEA	180.000		180.000
10110-1	CLEARING & GRUBBING	ILS	1.000 N		1.000
10110-7	MAILBOX, F&I, SINGLE	IEA	6.000		6.000
10120-1	REGULAR EXCAVATION	ICV	4259.000		4259.000
10120-6	EMBANKMENT	ICV	1448.000		1448.000
10160-4	STABILIZATION TYPE B	IST	13567.200 N		13567.200
10285-704	OPTIONAL BASE, BASE GROUP 04	IST	6902.000		6902.000
10285-711	OPTIONAL BASE, BASE GROUP 11	IST	4380.000 N		4380.000
10286-1	TURNOUT CONSTRUCTION	ISY	667.000		667.000
10327-70	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	ISY	31868.000		31868.000
10334-1	ISUPERPAVE ASPHALTIC CONC, TRAFFIC A	ITN	50.000		50.000
10334-13	ISUPERPAVE ASPHALTIC CONC, TRAFFIC C	ITN	4696.700		4696.700
10337-7	ASPHALT CONCRETE FRICTION COURSE- 1KC BIT/RUBBER, IFC-5	ITN	1801.400		1801.400
10339-1	MISCELLANEOUS ASPHALT PAVEMENT	ITN	91.700 N		91.700
10400-1	CONCRETE CLASS 1, MISCELLANEOUS	ICV	5.000 N		5.000
10425-1	555 INLETS, DT BOT, TYPE E, PARTIAL	IEA	1.000		1.000
10425-1	561 INLETS, DT BOT, TYPE F, <10'	IEA	3.000		3.000
10425-1	571 INLETS, DITCH BOTTOM, TYPE G, <10'	IEA	1.000		1.000
10425-1	701 INLETS, GUTTER, TYPE S, <10'	IEA	2.000		2.000
10425-2	41 MANHOLES, P-7, <10'	IEA	3.000 N		3.000
10425-2	43 MANHOLES, P-7, PARTIAL	IEA	2.000		2.000
10430-171	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 10-24", STORM SEWER	ILF	108.000 N		108.000
10436-1	2 TRENCH DRAIN, SPECIAL	ILF	511.000		511.000
10440-1	60 UNDERDRAIN, TYPE SPECIAL	ILF	738.000		738.000
10443-70	4 TRENCH DRAIN, 24"	ILF	207.000 N		207.000
10520-2	4 CONCRETE CURB, TYPE D	ILF	147.000		147.000
10521-1	1 MEDIAN CONCRETE BARRIER WALL	ILF	425.000		425.000
10521-72	6 SHOULDER CONCRETE BARRIER WALL, PLAIN - SHOULDER	ILF	75.000		75.000
10536-1	1 GUARDRAIL - ROADWAY	ILF	879.000 N		879.000
10536-1	8 GUARDRAIL, ROADWAY, WITH RUB RAIL	ILF	1672.000		1672.000
10536-7	1 GUARDRAIL POST SPECIAL	IEA	36.000		36.000
10536-73	1 GUARDRAIL REMOVAL	ILF	244.000		244.000
10536-82	1 GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL	IEA	1.000		1.000
10536-85	22 GUARDRAIL END ANCHORAGE ASSEMBLY- FLARED	IEA	6.000		6.000
10544-75	14 CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, GUARDRAIL	IEA	1.000		1.000
10570-1	2 IMPROVANCE TURF, SOD	ISY	10119.000 N		10119.000
10710-11-111	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	LHW	13.196		13.196
10710-11-122	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 8"	ILF	1840.000		1840.000
10710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	ILF	3200.000		3200.000
10710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 18"	ILF	130.000		130.000
10710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	ILF	242.000		242.000
10710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP 16"	ILF	560.000		560.000
10710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE	IEA	70.000		70.000
10710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	IEA	158.000		158.000
10710-11-211	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	LHW	7.418		7.418
10710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	ILF	2284.000		2284.000
10710-11-231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	IGV	1.230		1.230
10710-11-251	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, DOTTED/ GUIDELINE, 6"	ILF	132.000		132.000
10999-25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	ILS	1.000		1.000

FLORIDA DEPARTMENT OF TRANSPORTATION

0002 SUMMARY OF SIGNING		PAY ITEMS		QUANTITY	TOTAL
ITEM NUMBER	ITEM DESCRIPTION	UNIT	40558285201		
10630-1	12 CONDUIT - SIGNALS, FURNISH & INSTALL, UNDERGROUND	ILF	10.000		10.000
10632-6	1 CABLE - SIGNAL, FURNISH & INSTALL	ILF	200.000		200.000
10700-20	11 SINGLE POST SIGN, F&I, LESS THAN 12 SF	IAS	24.000		24.000
10700-20	40 SINGLE POST SIGN, RELOCATE	IAS	3.000		3.000
10700-20	60 SINGLE POST SIGN, REMOVE	IAS	17.000		17.000
10700-21	11 MULTI- POST SIGN, F&I, 50 SF OR LESS	IAS	1.000		1.000
10700-21	40 MULTI- POST SIGN, RELOCATE	IAS	2.000		2.000
10700-21	60 MULTI- POST SIGN, REMOVE	IAS	1.000		1.000
10705-11	1 DELINEATOR, FLEXIBLE TUBULAR	IEA	32.000		32.000
10710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	ILS	1.000		1.000

FLORIDA DEPARTMENT OF TRANSPORTATION

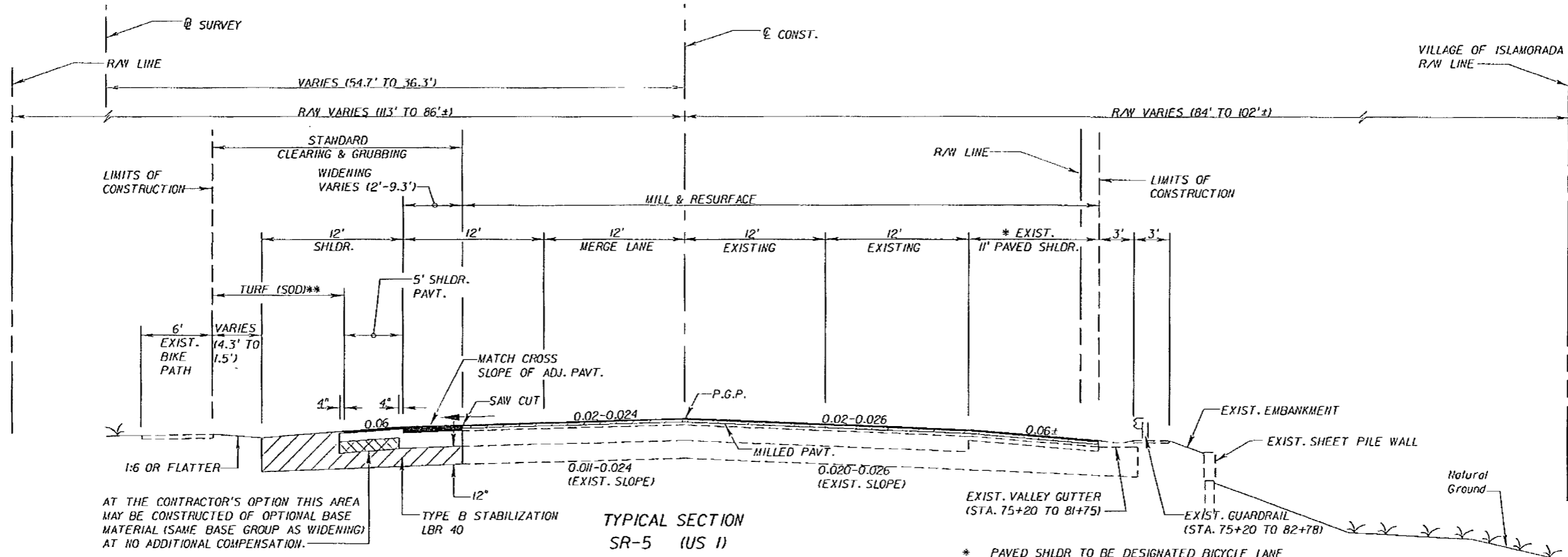
0003 SUMMARY OF LIGHTING		PAY ITEMS		QUANTITY	TOTAL
ITEM NUMBER	ITEM DESCRIPTION	UNIT	40558285201		
10715-1	12 LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	ILF	1659.000		1659.000
10715-2	11 LIGHTING - CONDUIT, F&I, UNDERGROUND	ILF	493.000		493.000
10715-4	400 LIGHT POLE COMPLETE, RELOCATE	IEA	4.000		4.000

FLORIDA DEPARTMENT OF TRANSPORTATION

0004 SUMMARY OF LANDSCAPE / PERIPHERAL		PAY ITEMS		QUANTITY	TOTAL
ITEM NUMBER	ITEM DESCRIPTION	UNIT	40558285201		
10580-1	2 LANDSCAPE COMPLETE- LARGE PLANTS	ILS	1.000		1.000

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61B5-23.003, F.A.C.

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF PAY ITEMS	SHEET NO. 2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR-5	MONROE	405582-8-52-01			

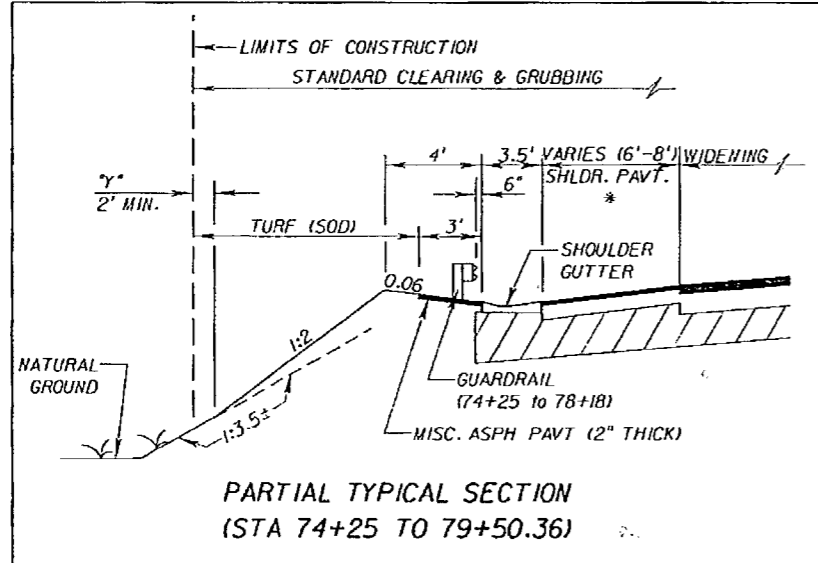


AT THE CONTRACTOR'S OPTION THIS AREA MAY BE CONSTRUCTED OF OPTIONAL BASE MATERIAL (SAME BASE GROUP AS WIDENING) AT NO ADDITIONAL COMPENSATION.

**TYPICAL SECTION
SR-5 (US 1)
STA. 74+25.00 TO STA. 83+00.00 (LEFT)
STA. 75+20.00 TO STA. 83+00.00 (RIGHT)**

- * PAVED SHLDR TO BE DESIGNATED BICYCLE LANE (SEE SIGNING & PAVT. MARKING PLANS).
- ** MAINTAIN 1" DROP OFF PER INDEX 105, TREATMENT I
- "Y" THE AREA DISTURBED BY CONSTRUCTION, VARIES.

- NOTES:
- 1) MINIMUM WIDTH OF WIDENING SHALL BE 2'.
 - 2) ACTUAL WIDTH OF BASE WIDENING WAY VARY DUE TO ACTUAL PAVEMENT WIDTH. CONTRACTOR MAY ELECT TO PLACE UNIFORM BASE WIDENING AT NO ADDITIONAL COST.
 - 3) FINISHED SOIL LAYER ON THE TOP OF THE STABILIZED SUB-GRADE NOT BE USED.



**PARTIAL TYPICAL SECTION
(STA 74+25 TO 79+50.36)**

**MILLING & RESURFACING
(NO CROSS SLOPE CORRECTION)
(ROADWAY PAVEMENT & PAVED SHOULDER)**

MILL THE EXISTING ASPHALT CONCRETE PAVEMENT 12" AVG. UNIF. DEPTH
RESURFACE WITH SP STRUCTURAL COURSE (TRAFFIC C) 1-1/2" AND FRICTION COURSE FC-5 3/4" (RUBBER)

**MILLING & RESURFACING
WITH CROSS SLOPE CORRECTION
SEE DETAILS, SHEET 6**

ROADWAY PAVEMENT WIDENING

OPTIONAL BASE GROUP II WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) 3" AND FRICTION COURSE FC-5, 3/4" (RUBBER)

NEW PAVED SHOULDER/ PAVED SHOULDER WIDENING

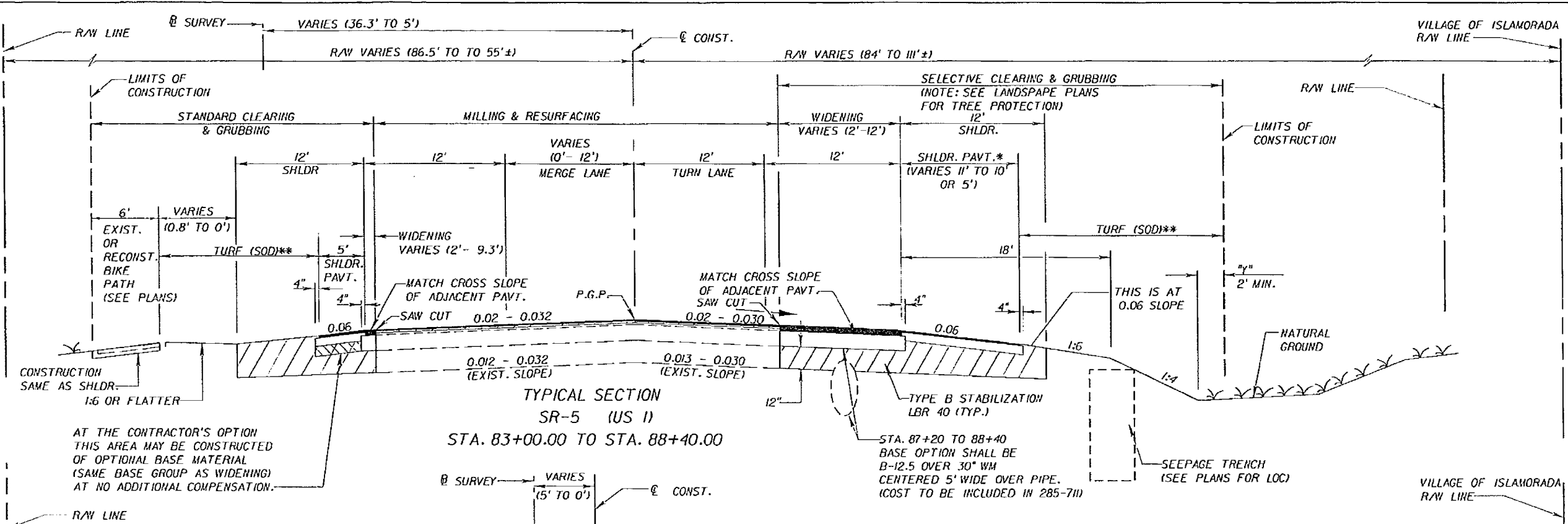
OPTIONAL BASE GROUP 4 WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) 1-1/2" AND FRICTION COURSE FC-5, 3/4" (RUBBER)

TRAFFIC DATA

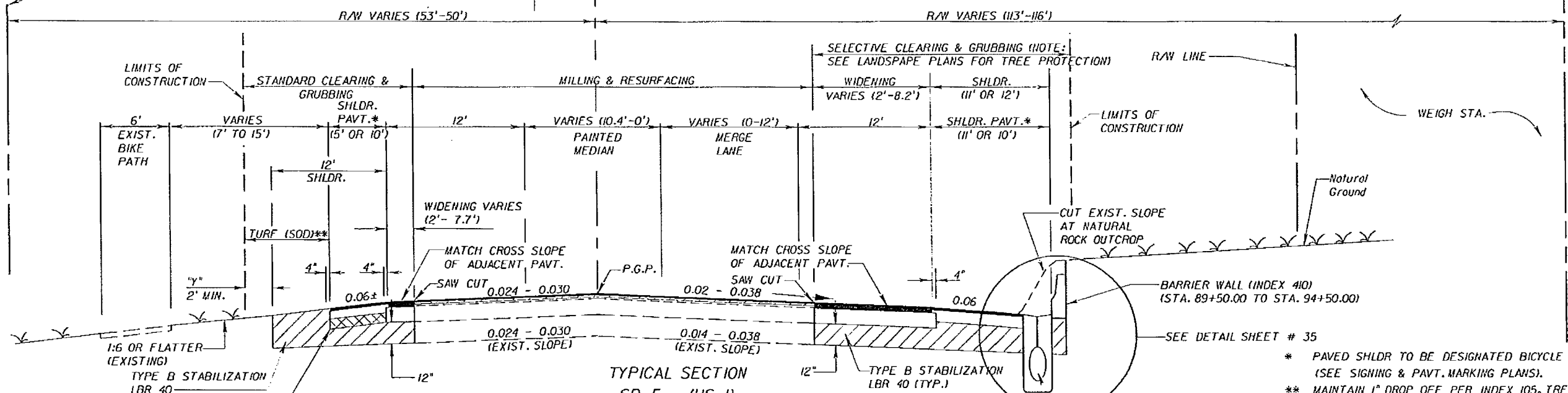
CURRENT YEAR ESTIMATE = 2003 AADT = 21,700
OPENING YEAR ESTIMATE = 2010 AADT = 23,600
DESIGN YEAR ESTIMATE = 2030 AADT = 29,000
K = 9.98% D = 54.23% T = 6.11% (24 HOUR)
DESIGN HOUR T = 3.06%
DESIGN SPEED = 55 MPH

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR-5	MONROE	405582-8-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6095-23.003, F.A.C.



TYPICAL SECTION
SR-5 (US 1)
STA. 83+00.00 TO STA. 88+40.00



TYPICAL SECTION
SR-5 (US 1)
STA. 88+40.00 TO STA. 94+25.00 (RIGHT)
STA. 88+40.00 TO STA. 97+83.69 (LEFT)

TRAFFIC DATA

CURRENT YEAR ESTIMATE = 2003 AADT = 21,700
 OPENING YEAR ESTIMATE = 2010 AADT = 23,600
 DESIGN YEAR ESTIMATE = 2030 AADT = 29,000
 K = 9.98% D = 54.23% T = 6.11% (24 HOUR)
 DESIGN HOUR T = 3.06%
 DESIGN SPEED = 55 MPH

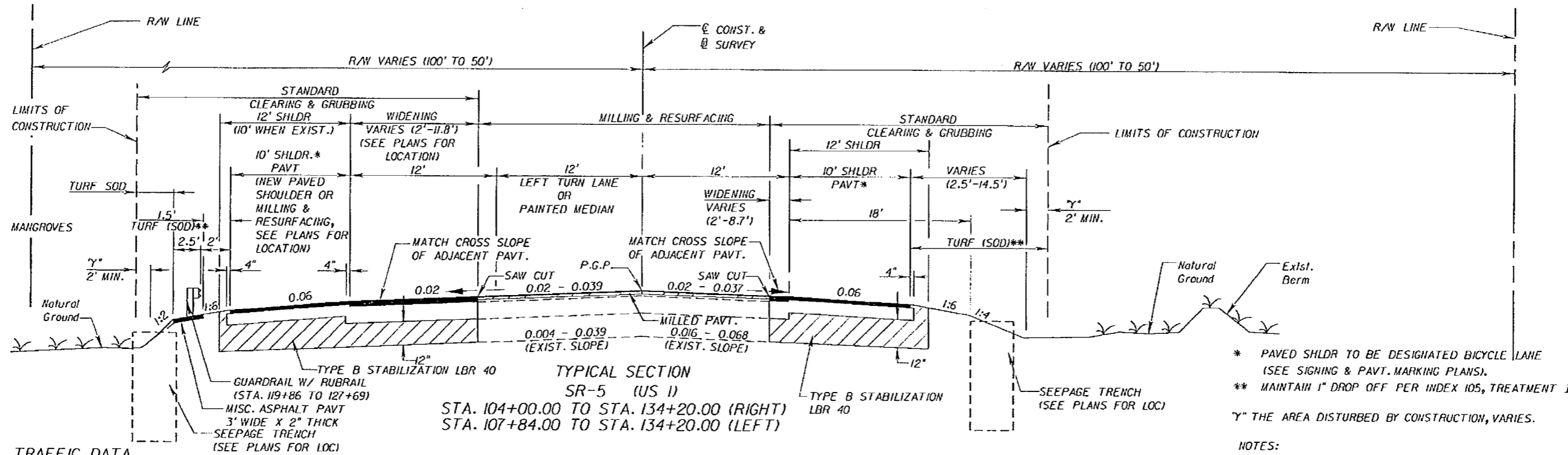
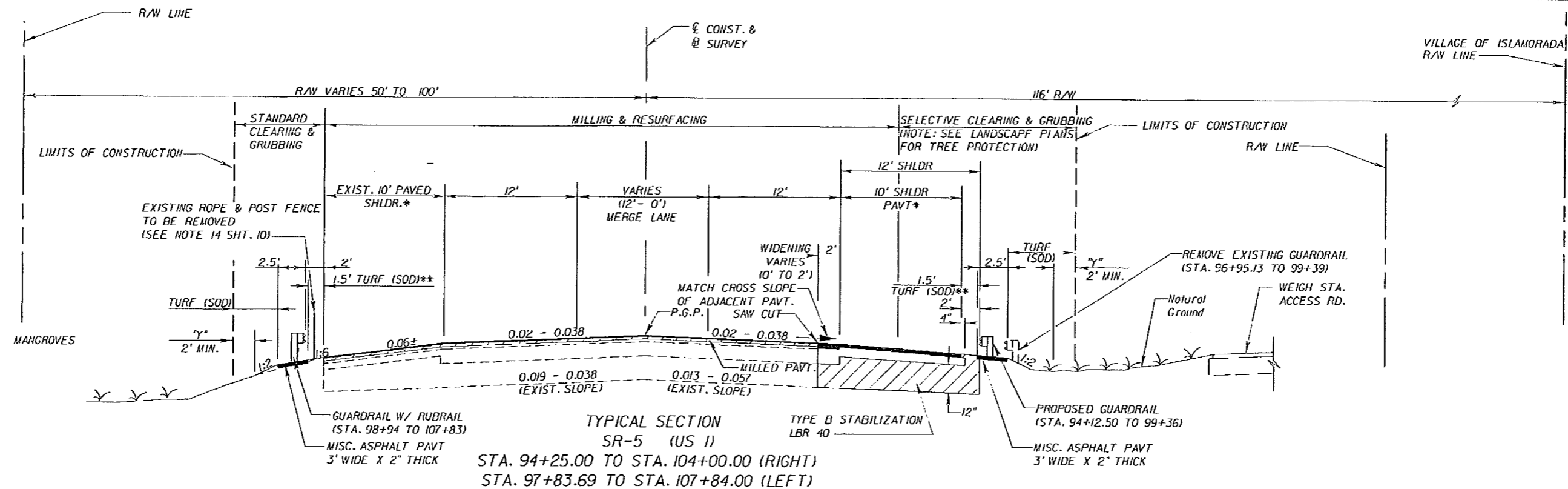
AT THE CONTRACTOR'S OPTION
 THIS AREA MAY BE CONSTRUCTED
 OF OPTIONAL BASE MATERIAL
 (SAME BASE GROUP AS WIDENING)
 AT NO ADDITIONAL COMPENSATION.

- * PAVED SHLDR TO BE DESIGNATED BICYCLE LAKE (SEE SIGNING & PAVT. MARKING PLANS).
 ** MAINTAIN 1" DROP OFF PER INDEX 105, TREATMENT 1
 "Y" THE AREA DISTURBED BY CONSTRUCTION, VARIES.
 NOTES:
 1) MINIMUM WIDTH OF WIDENING SHALL BE 2'.
 2) ACTUAL WIDTH OF BASE WIDENING WAY VARY DUE TO ACTUAL PAVEMENT WIDTH. CONTRACTOR MAY ELECT TO PLACE UNIFORM BASE WIDENING AT NO ADDITIONAL COST.
 3) FINISHED SOIL LAYER ON THE TOP OF THE STABILIZED SUB-GRADE NOT BE USED.

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR-5	MONROE	405582-8-52-01		

TYPICAL SECTION

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



TRAFFIC DATA
 CURRENT YEAR ESTIMATE = 2003 AADT = 21,700
 OPENING YEAR ESTIMATE = 2010 AADT = 23,600
 DESIGN YEAR ESTIMATE = 2030 AADT = 29,000
 K = 9.98% D = 54.23% T = 6.11% (24 HOUR)
 DESIGN HOUR T = 3.06%
 DESIGN SPEED = 55 MPH

- * PAVED SHLDR TO BE DESIGNATED BICYCLE LANE (SEE SIGNING & PAVT. MARKING PLANS).
- ** MAINTAIN 1" DROP OFF PER INDEX 105, TREATMENT I
- γ" THE AREA DISTURBED BY CONSTRUCTION, VARIES.

- NOTES:**
- 1) MINIMUM WIDTH OF WIDENING SHALL BE 2'.
 - 2) ACTUAL WIDTH OF BASE WIDENING WAY VARY DUE TO ACTUAL PAVEMENT WIDTH. CONTRACTOR MAY ELECT TO PLACE UNIFORM BASE WIDENING AT NO ADDITIONAL COST.
 - 3) FINISHED SOIL LAYER ON THE TOP OF THE STABILIZED SUB-GRADE NOT BE USED.

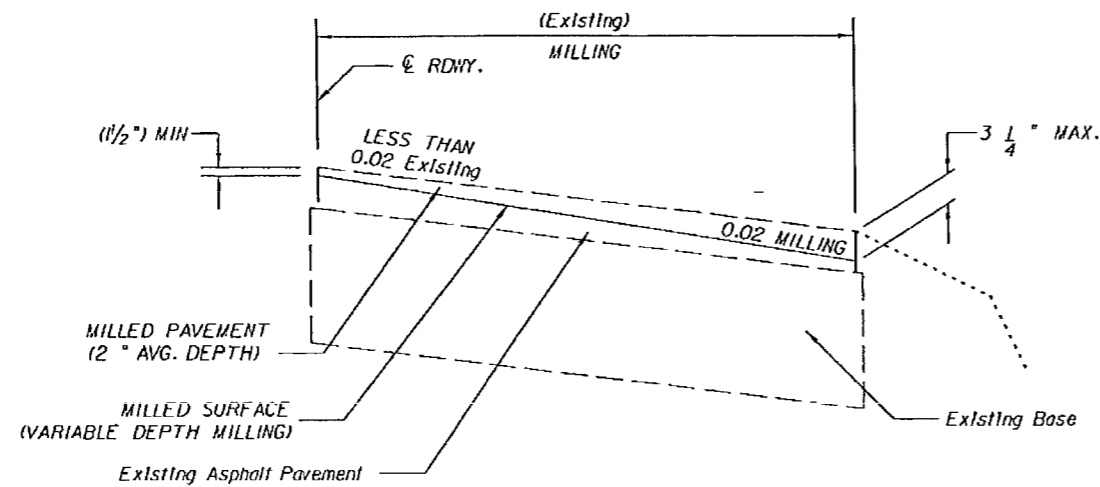
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

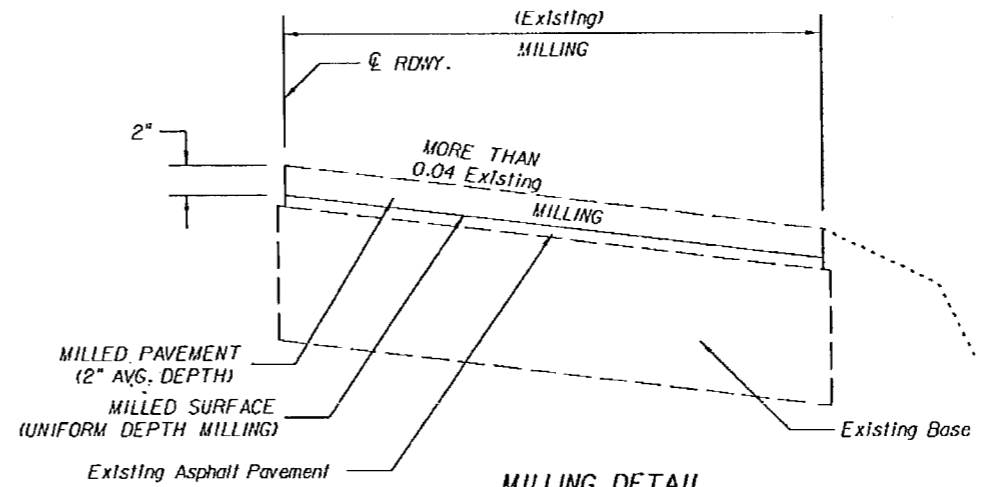
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

TYPICAL SECTION	SHEET NO. 5
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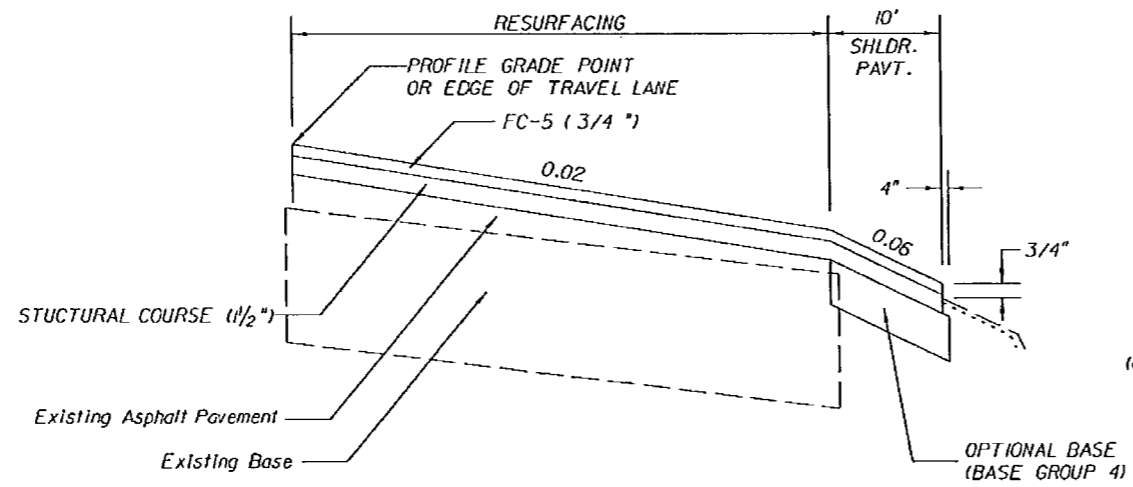
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



VARIABLE MILLING DETAIL

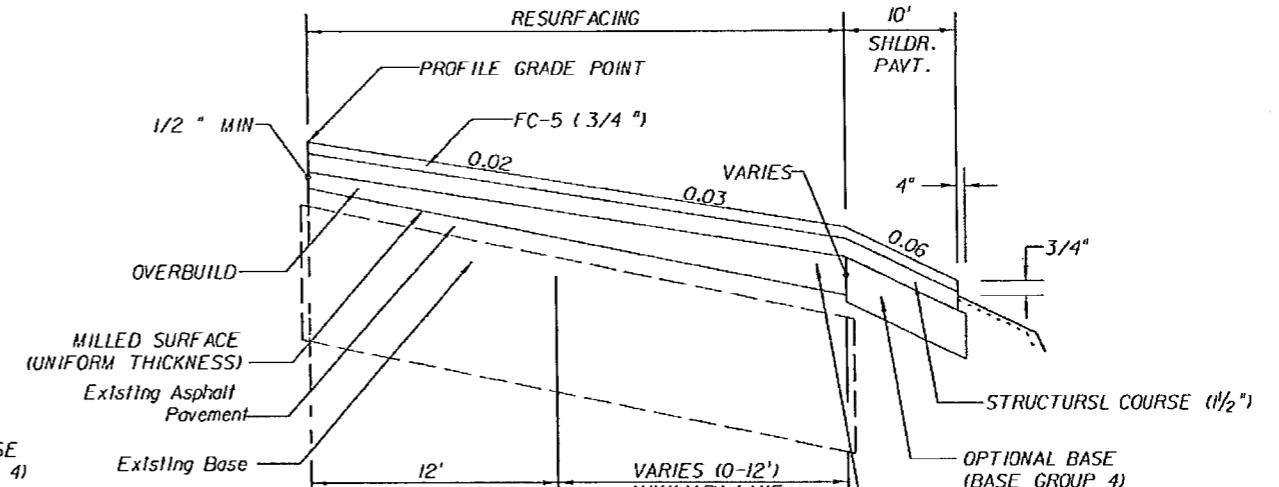


MILLING DETAIL



RESURFACING DETAIL

CORRECTING FLAT SLOPES (VARIABLE MILLING)



OVERBUILD AND RESURFACING DETAIL

CORRECTING STEEP SLOPES (OVERBUILD)

NOTE: SEE SPECIAL PROFILE & CROSS SECTIONS FOR LOCATIONS

MILLING & RESURFACING WITH CROSS SLOPE CORRECTION (VARIABLE MILLING)

MILL THE EXISTING ASPHALT CONCRETE PAVEMENT TO A 0.02 CROSS SLOPE (1 - 1/2" MIN., 3 - 1/4" MAX.) RESURFACE WITH SP STRUCTURAL COURSE (TRAFFIC C) 1 - 1/2" AND FRICTION COURSE FC-5 3/4" (RUBBER)

MILLING & RESURFACING WITH CROSS SLOPE CORRECTION (OVERBUILD)

MILL THE EXISTING ASPHALT CONCRETE PAVEMENT (2" AVG. UNIFORM DEPTH), OVERBUILD WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) TO ACHIEVE PROPOSED CROSS SLOPE, RESURFACE WITH SP STRUCTURAL COURSE (TRAFFIC C) 1 - 1/2" AND FRICTION COURSE FC-5 3/4" (RUBBER)

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR-5	MONROE	405582-8-52-01	

TYPICAL SECTION DETAILS

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

Roadway - As-Built Pavement Data (LIMS)		
Date 7/28/09	Page No. 1 of 2	LIMS ID 90094550
Project ID.: 405582-8-52-01	Pay Item No.: 2 10 1	Material ID.: PROABS
Sample Level: V	Manfr or Prod: General Asphalt	Date Sampled: 7/28/09
Dest. LabID: E06002	Sample No.: A002V	Sampled By: S45611658
Sta. From: 74+25	Sta. To: 134+29.03	Plant No.: A 0656
Design Mix No.: SP 08-6718 A	Lane: R1	A 0656

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
		Layer Code	ST40	LR	SP125C
2"	Approx. Thickness in./mm	12"	6"	1 1/2"	3/4"

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:

Roadway - As-Built Pavement Data (LIMS)		
Date 7/28/09	Page No. 1 of 2	LIMS ID 90094529
Project ID.: 405582-8-52-01	Pay Item No.: 2 10 1	Material ID.: PROABS
Sample Level: V	Manfr or Prod: General Asphalt	Date Sampled: 7/28/09
Dest. LabID: E06002	Sample No.: A001V	Sampled By: S45611658
Sta. From: 74+25	Sta. To: 134+29.03	Plant No.: A 0656
Design Mix No.: SP 08-6718 A	Lane: L-1	A 0656

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
		Layer Code	ST40	LR	SP125C
2"	Approx. Thickness in./mm	12"	6"	1 1/2"	3/4"

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:

SUMMARY OF GUARDRAIL

LOCATION		GUARDRAIL (LF)								END ANCHORAGE ASSEMBLIES (EA)								REMARKS	LOCATION		GUARDRAIL REMOVAL			
STATION	SIDE	ROADWAY		ROADWAY, DOUBLE FACE		PEDESTRIAN SAFETY TREATMENT		RUBRAIL		FLARED		PARALLEL		TYPE II		BARR. WALL			STATION	GUARDRAIL (LT)		GUARDRAIL (RT)		
		P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F			P	F			
FROM 74+25	LT	393	513			FROM												From 94+36						
TO 78+18							TO				1	1							to 96+95		0	259		
FROM 94+36	RT	486	486			FROM										1	1	FROM 96+95.13			244	244		
TO 99+36							TO				1	1							TO 99+39					
FROM 98+94	LT					FROM		889	889	1	1							From 74+25	0	393				
TO 107+82							TO				1	1							to 78+18					
FROM 119+86	LT					FROM		783	786	1	1							From 104+35			0	41		
TO 127+69							TO				1	1							to 104+76					
TOTAL		879	999					1672	1675	6	6					1	1			393	244	544		

SUMMARY OF UNDERDRAIN (SEEPAGE TRENCH)

LOCATION		SIDE	UNDERDRAIN TYPE (LF)	OUTLET PIPE LENGTH (LF)	CONCRETE (CY)	SODDING (SY)	FIELD BOOK REFERENCE
STA. TO	STA.						
P	85+96 TO 86+62	RT	66				
F			66				
P	87+23 TO 87+94	RT	71				
F			71				
P	108+36 TO 109+11	LT	75				
F			75				
P	111+21 TO 111+44	LT	23				
F			23				
P	111+99 TO 112+76	LT	77				
F			77				
P	116+00 TO 116+74	LT	74				
F			74				
P	128+01 TO 129+77	RT	176				
F			176				
P	128+01 TO 129+77	RT	176	176			
F	129+01 TO 129+45	RT	144	144			
TOTAL			138	882			

SUMMARY OF PERFORMANCE TURF (SOD)

LOCATION		SIDE	P			F			FIELD BOOK REFERENCE
STA. TO	STA.		L	W	SY	L	W	SY	
IRREGULAR AREA					8,799.3				
15% CONTINGENCY					1,319.9				
TOTAL					10,119.0			12168.0	

SUMMARY OF EARTHWORK

DESCRIPTION	CY	
	P	F
ROADWAY EXCAVATION, US-1	4259	4,259
EMBANKMENT, US-1	1448	1,448

NOTE:
EARTHWORK HAS BEEN CALCULATED USING LIMEROCK BASE OPTION. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO THE EARTHWORK, FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.

PAY ITEM NOTES

- 100- 7-1 INCLUDES 2 MAILBOXES AS CONTINGENCY
- 110- 1-1 SELECTIVE CLEARING & GRUBBING STA. 86+60 - 102+80 (RIGHT). SOME OF THE TREES TO BE REMOVED ARE LARGE TREES. SPECIAL EQUIPMENT AND EXTRA LABOR WILL BE REQUIRED. (SEE LANDSCAPE PLANS).
- 160- 40 LOCAL ROCK MAYBE USED
- 334- 1-11 INCLUDES 50 TN FOR 1,000 SY OF TEMP. PAVEMENT FOR USE AS NEEDED DURING CONST.
- 334- 1-13 INCLUDES 700.9 TN FOR OVERBUILD AND ADDITIONAL 10% FOR CONTINGENCY
- 400- 1-15 INCLUDES 5 CY FOR MISCELLANEOUS CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
- 440- 1-60 UNDERDRAIN, TYPE SPECIAL. INCLUDES COST OF SEEPAGE TRENCH AS DETAILED IN PLANS, INCLUDING PVC PIPE AND END CAPS, BALLAST ROCK, FILTER FABRIC, FINE AGGREGATE, AND EXCAVATION FOR TRENCH.
- 520- 2-4 INCLUDES THE COST OF PAVEMENT REMOVAL, FILTER FABRIC AND NO.3 COARSE AGGREGATE AT VENETIAN BLVD. MEDIAN
- 710 THE TOTALS SHOWN ON THE SUMMARY OF ROADWAY PAY ITEMS ARE FOR PAINTED PAVEMENT MARKINGS USED FOR TRAFFIC CONTROL.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOLTON, PEREZ & ASSOCIATES
7205 CORPORATE CENTER DRIVE, SUITE 201
MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 7904
P.E. LICENSE NUMBER 43956
FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

SUMMARY OF QUANTITIES	
7	SHEET NO.

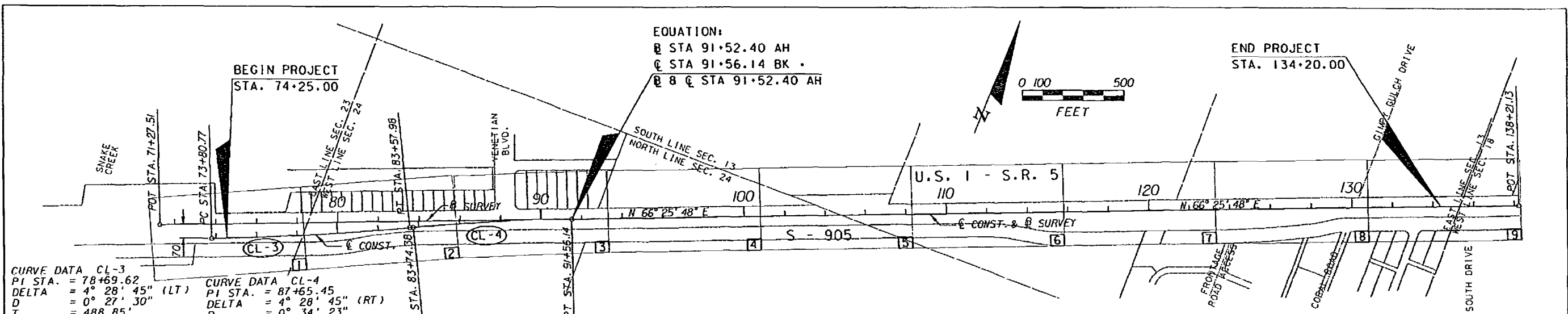
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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL		SLOTTED PIPE OPTIONAL MATERIAL		DITCH BOTTOM INLETS			GUTTER INLETS	MANHOLES		FRENCH DRAINS OPTIONAL MATERIAL		REMARKS
						18"	24"	18"		TYPE E	TYPE F	TYPE G	TYPE S	P-7		24"		
										PARTIAL	<10'	<10'	<10'		PARTIAL			
P	S-1	79+24.50 E SR 5	LT	INLET						1								Replaced type E w/
F			LT	M.H. Pipe						0								per spec.
P	S-2	78+24.50 E SR 5	LT	INLET, PIPE	1		19						1					
F			LT	Inlet Pipe		10	0						1					
P	S-3	79+42.67 E SR 5	LT	INLET, PIPE	1		14						1					
F			LT	Inlet Pipe														
P	S-4	80+84.00 E SR 5	LT	INLET, PIPE	1		7						1					W/ PAVEMENT
F		80+81.77	LT	Inlet Pipe		5.5							1					
P	S-5	80+83.67 E SR 5	LT	MANHOLE											1			
F		80+81.5	LT	Manhole											1			
P	S-6	82+24.00 E SR 5	LT	INLET, PIPE	1		7						1					W/ PAVEMENT
F		82+19.81	LT	Inlet Pipe		5.5							1					
P	S-7	82+24.28 E SR 5	LT	MANHOLE											1			
F		82+19.81	LT	Manhole											1			
P	S-8	91+24.00 E SR 5	LT	INLET, PIPE	1		6						1					
F			LT	Inlet, PD			0						1			50		
P	S-9	91+24.00 E SR 5	RT	MANHOLE, PIPE	1			167						1				
F			RT	Manhole Pipe				167						1				
P	S-10	92+85.00 E SR 5	RT	MANHOLE, PIPE	1			162						1				
F			RT	Manhole Pipe				162						1				
P	S-11	94+70.00 E SR 5	RT	MANHOLE, PIPE	1			182						1				W/ SKIMMER (EAST)
F			RT	Manhole Pipe				182						1				
P	S-12	96+80.00 E SR 5	RT	INLET, PD	1											207		W/ PAVEMENT AND SKIMMER (WEST)
F		96+25	RT	Inlet, PD												156		

SHEET TOTALS -	PLAN QUANTITY	89	19	50	1	3	1			3	2	207						
	FINAL QUANTITY	35	190	50	0	3	1			3	3	206						
GRAND TOTALS -	PLAN QUANTITY	89	19	50	1	3	1			3	2	207						
	FINAL QUANTITY	35	190	50	0	3	1			3	3	206						

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION					Alvarez Engineers, Inc. <small>FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538 RAMON TESORIE, P.E. No. 55070 12550 N.W. 27th Street, Suite 102 Miami, Florida 33182 Tel. (305) 640-1345 Fax (305) 640-1346 E-mail Alvarez@AlvarezEng.com</small>			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 5 MONROE 405582-8-52-01			SUMMARY OF DRAINAGE STRUCTURES		SHEET NO. 8
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CURVE DATA CL-3

PI STA. = 78+69.62
 DELTA = 4° 28' 45" (LT)
 D = 0° 27' 30"
 T = 488.85'
 L = 977.21'
 R = 12,500.00'
 PC STA. = 73+80.77
 PT STA. = 83+57.98
 e = NC

CURVE DATA CL-4

PI STA. = 87+65.45
 DELTA = 4° 28' 45" (RT)
 D = 0° 34' 23"
 T = 391.08'
 L = 781.76'
 R = 10,000.00'
 PC STA. = 83+74.38
 PT STA. = 91+56.14
 e = NC

GENERAL NOTES

- B.M. DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (MGVD-'29) AND HORIZONTAL DATA IS NAD83/1990 ADJUSTMENT.
- ALL PUBLIC LAND CORNERS AND PRIMARY NETWORK CONTROL SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE DISTRICT LOCATION ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. INCLUDE ALL COST OF REFERENCING, RESTORING AND PRESERVING IN THE BID PRICE FOR ITEM 101-1, MOBILIZATION.
- ALL EXCESS MATERIAL AS DESIGNATED BY THE ENGINEER IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEANING AND SWEEPING IS TO BE INCLUDED IN ITEM 102-1, MAINTENANCE OF TRAFFIC.
- THE CONTRACTOR SHALL PAINT ALL STATIONS WITH STERILED NUMBERS ON THE FACE OF CURB.
 - FROM THE BEGINNING OF THE PROJECT WHERE THE CURB IS TO REMAIN.
 - AT NEW CURB NOT LATER THAN 72 HOURS AFTER BEING POURED.
 - WHERE CURB DOES NOT EXIST AND SHALL NOT BE CONSTRUCTED THE CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES. THE CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION. COST TO BE INCLUDED IN RELATED PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- COMMERCIAL MATERIAL INCLUDED FOR DRIVEWAY MAINTENANCE AND SAFE ACCESS TO RESIDENTIAL AND BUSINESS PROPERTIES AFFECTED BY CONSTRUCTION SHALL BE PAID ONLY ONCE PER ACCESS. IF THE MATERIAL IS REMOVED DURING SUBSEQUENT CONSTRUCTION OPERATIONS, IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. QUANTITY FOR THIS ITEM MAY BE INCREASED, DECREASED, OR OMITTED AS DIRECTED BY THE DEPARTMENT.
- CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONCRETE PLANTS IN MONROE COUNTY DO NOT REMAIN IN CONTINUOUS FOOT CERTIFICATION. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE AVAILABILITY OF ALL CLASSES OF CONCRETE DESIGN MIXES REQUIRED FOR THE PROJECT AND DELIVERY TIMES PRIOR TO BIDDING. ANY COSTS ASSOCIATED WITH PLANT CERTIFICATION SHALL BE INCLUDED IN THE APPROPRIATE CONCRETE BID ITEMS.
 - IF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING IN ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING OR DEWATERING, INCLUDING WELL POINTS, AND ALL MONITORING COST SHALL BE INCLUDED IN THE RELATED BID ITEMS FOR THE WORK BEING DONE.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY DEWATERING PERMIT NEEDED. COST OF PERMIT AND DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
 - THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIVEROCK, DEBRIS, ETC. DURING CONSTRUCTION AT NO ADDITIONAL COST.
 - EXISTING UTILITIES ARE BACKFILLED WITH FLOWABLE FILL. LARGE CHUNKS OF EXCAVATED MATERIAL SHALL BE REPLACED WITH SUITABLE MATERIAL OR PROCESSED TO MAKE THEM SUITABLE FOR BACKFILLING OR EMBANKMENT CONSTRUCTION. COST TO BE INCLUDED IN RELATED BID ITEMS.
 - THE CONTRACTOR SHALL PERFORM SELECTIVE CLEARING AND GRUBBING FOR THE WORK BEING DONE AT STA. 86+60 TO 102+80 (RIGHT). REFER TO LANDSCAPE PLANS. COST TO BE INCLUDED IN 110-1-1, CLEARING & GRUBBING.
 - CONTRACTOR MAY ENCOUNTER HARD MATERIAL ALONG THE PROJECT AND SHALL USE EQUIPMENT AND METHOD OF CONSTRUCTION SUITABLE TO COMPLETE THE WORK.
 - EXIST. POST & ROPE SHALL BE REMOVED WITH CARE. ALL SALVAGED MATERIAL SHALL BE DELIVERED TO ISLAMORADA PUBLIC WORKS. COORDINATE DELIVERY TIME & LOCATION WITH ZULLY HEMEYER 305-852-6933 TWO WEEKS PRIOR.
 - EXIST. TUBULAR DELINEATORS WITHIN LEFT SHOULDER SHALL BE REMOVED WITH CARE. ALL SALVAGED MATERIAL SHALL BE DELIVERED TO ISLAMORADA PUBLIC WORKS. COORDINATE DELIVERY TIME & LOCATION WITH ZULLY HEMEYER 305-852-6933 TWO WEEKS PRIOR.
 - THE CONTRACTOR SHALL BE AWARE THAT PROJECT FIN NO. 44649-1-52-01 WILL BE CONSTRUCTED NORTH OF THIS PROJECT SIMULTANEOUSLY WITH THIS PROJECT. THE CONTRACTORS SHALL COORDINATE MAINTENANCE OF TRAFFIC AND OTHER ACTIVITIES WITH EACH OTHER. DETOURS/CROSSOVERS WITHIN THE LIMITS OF THE ADJACENT PROJECT MUST BE CONSTRUCTED SUCH THAT PERMANENT CONSTRUCTION FEATURES ARE NOT DAMAGED. NO ADDITIONAL COMPENSATION OR TIME WILL BE GRANTED TO THE CONTRACTOR FOR ANY CHANGE IN THE SEQUENCE OF OPERATIONS IN DETOUR/CROSSOVER AREAS.
- DRAINAGE:**
- EXISTING STORM SEWERS (PIPES, FRENCH DRAINS AND/ OR SLAB COVERED TRENCHES) SHALL REMAIN IN PLACE IF NOT IN CONFLICT WITH PROPOSED CONSTRUCTION. PLUG OPEN ENDS WHERE NEEDED WITH MISCELLANEOUS CONCRETE. COST TO BE INCLUDED IN PAY ITEM 400-1-15 UNLESS OTHERWISE STATED ON PLANS.
 - EXISTING STORM SEWERS (PIPES, FRENCH DRAINS AND/ OR SLAB COVERED TRENCHES) IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED. COST OF REMOVAL, DISPOSAL, BACKFILLING AND COMPACTING SHALL BE INCLUDED IN ITEM 110-1-1, CLEARING AND GRUBBING AS PER 110-6 OF STANDARD SPECIFICATIONS.
 - EXISTING INLETS, MANHOLES, RETAINING/GRAVITY WALLS THAT ARE PLACED OUT OF SERVICE AND ARE NOT SHOWN IN PLANS TO REMAIN SHALL BE REMOVED. COST OF REMOVAL, DISPOSAL, BACKFILLING AND COMPACTING SHALL BE INCLUDED IN PAY ITEM 110-1-1, CLEARING AND GRUBBING.
 - THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
- ENVIRONMENTAL:**
- ENVIRONMENTALLY SENSITIVE AREAS EXIST NEAR THE PROJECT CORRIDOR. THE CONTRACTOR MUST BE AWARE THAT A NUMBER OF WILDLIFE SPECIES, SOME OF WHICH ARE FEDERALLY OR STATE LISTED AS EITHER ENDANGERED OR THREATENED, COULD INHABIT OR MIGRATE THROUGH THE PROJECT AREA. DURING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING THREATENED OR ENDANGERED SPECIES

- THE FOLLOWING PRECAUTIONS WILL BE TAKEN IF AN AMERICAN CROCODILE OR AMERICAN ALLIGATOR IS ENCOUNTERED DURING CONSTRUCTION: ALL WORKERS SHALL BE NOTIFIED; THE ALLIGATOR OR CROCODILE SHALL BE ALLOWED TO LEAVE THE SITE ON ITS OWN AND SHALL NOT BE DISTURBED, HERDED, INJURED, OR KILLED. THE CONTRACTOR SHALL KEEP A DAILY LOG DETAILING ALL SIGHTINGS, INJURIES, OR KILLINGS. AFTER PROJECT COMPLETION, REPORTS SUMMARIZING THESE EVENTS SHALL BE SUBMITTED TO THE DISTRICT ENVIRONMENTAL ADMINISTRATOR. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED OR THREATENED SPECIES. SHOULD THESE SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE DISTRICT ENVIRONMENTAL MANAGEMENT OFFICE AT (305) 470-5220 WITHIN 24 HOURS OF EACH ENCOUNTER.
 - THE FOLLOWING PRECAUTIONS WILL BE TAKEN IF AN EASTERN INDIGO SNAKE IS ENCOUNTERED DURING CONSTRUCTION: ALL WORKERS SHALL BE NOTIFIED; THE SNAKE SHALL BE ALLOWED TO LEAVE THE SITE ON ITS OWN AND SHALL NOT BE DISTURBED, HERDED, INJURED, OR KILLED. FENCING SHALL NOT BE ERECTED, AS THE SNAKE MAY SUSTAIN INJURY IF IT BECOMES ENTANGLED IN THE MESH. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED OR THREATENED SPECIES. SHOULD THIS SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE DISTRICT ENVIRONMENTAL MANAGEMENT OFFICE AT (305) 470-5220 WITHIN 24 HOURS OF EACH ENCOUNTER.
 - STATE LISTED PLANT SPECIES ARE FOUND GROWING IMMEDIATELY ADJACENT TO THE CONSTRUCTION AREA (REFER TO PD&E STUDY BY PROSSER HALLOCK, 2005). THE CONTRACTOR SHALL NOT IMPACT NATURALLY VEGETATED AREAS OUTSIDE OF THE FOOTPRINT OF THE PROPOSED CONSTRUCTION.
 - THE CONTRACTOR IS PROHIBITED FROM STAGING EQUIPMENT OR STOCKPILING MATERIALS WITHIN THE AREA BETWEEN THE WEIGH STATION ROADWAY AND US-1, BETWEEN STATION 88+50 AND 100+60. THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE DISTRICT ENVIRONMENTAL PERMITS COORDINATOR AT (305) 470-5220 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO USE.
 - ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES. COST TO BE INCLUDED IN THE RELATED BID ITEM.
 - THE CONTRACTOR SHALL NOT IMPACT WETLANDS ADJACENT TO THE PROJECT CORRIDOR. TWO WEEKS PRIOR TO MOBILIZATION, THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER AND THE DISTRICT ENVIRONMENTAL PERMITS COORDINATOR TO FIELD-VERIFY THE EXTENT AND BOUNDARY OF WETLAND VEGETATION ON SITE.
 - WETLAND LINES PLOTTED ON PLANS ARE AS SHOWN ON PRELIMINARY ENGINEERING REPORT BY PROSSER HALLOCK PLANNERS & ENGINEERS, DATED 5/27/05.
 - THE CONTRACTOR SHALL PREPARE AN EROSION CONTROL PLAN AND APPLY TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THE NPDES GENERAL CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION.
- UTILITIES:**
- FOR UTILITY ADJUSTMENT SYMBOLS, SEE STANDARD INDEX NO. 002.
 - ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
 - TWO FULL BUSINESS DAYS PRIOR TO DIGGING THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, TELEPHONE NUMBER 1-800-432-4770, AND THE UTILITY OWNER AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
 - THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT MAY HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE SERVICE LATERALS FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND SERVICE LATERALS MUST BE INCLUDED IN THE COST OF RELATED BID ITEMS FOR THE WORK BEING DONE.

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT AND GENERAL NOTES	SHEET NO. 10
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR-5	MONROE	405582-8-52-01			

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GENERAL NOTES (CONT'D)

5. PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS, SLAB COVERED TRENCHES, CONDUITS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH A SEVEN DAYS ADVANCE NOTICE OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE.

UTILITY OWNERS:	TELEPHONE NUMBERS:
AT&T/BELLSOUTH	305-222-8745
FLORIDAKEYS ELECTRIC COOPERATIVE	305-852-2431
FLORIDA KEYS AQUEDUCT AUTHORITY	305-296-2454 EXT. 251
COMCAST CABLE	954-534-7417

LIGHTING:

1. THE CONTRACTOR SHALL PERFORM AN INVENTORY OF THE EXISTING LIGHTING SYSTEM PRIOR TO THE BEGINNING CONSTRUCTION ACTIVITIES. A WRITTEN REPORT WILL BE PREPARED LISTING ALL LIGHTING ITEMS OPERABLE AND INOPERABLE. THE COMPLETED REPORT WILL BE FORWARDED TO THE PROJECT ENGINEER WITH COPIES TO THE MAINTAINING AGENCY PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. GOVERNING STANDARDS AND SPECIFICATIONS ARE: THE DESIGN STANDARDS, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE MIAMI-DADE COUNTY STANDARD SPECIFICATIONS FOR ROADWAY LIGHTING, THE 2005 NATIONAL ELECTRIC CODE, NATIONAL ELECTRICAL SAFETY CODE OR LATER EDITION AND LOCAL CODES WHICH EXCEED THESE SPECIFICATIONS.
3. ENDS OF CONDUITS SHALL BE SEALED WITH POLYURETHANE FOAM AFTER WIRING IS COMPLETE. FOAM SEAL SHALL NOT BE USED AS A MEANS TO PROTECT CONDUCTORS FROM ABRASION IN RACEWAYS. GALVANIZED RIGID METAL CONDUIT SHALL HAVE PROPER FITTINGS TO PROTECT CONDUCTORS FROM ABRASION.
4. DEVICE SUPPORT IN PULL BOXES: THE PREFERRED METHOD OF ATTACHMENT OF LIGHTNING ARRESTERS AND OTHER DEVICES LIKELY TO BE SUPPORTED IN PULL BOXES, IS BY MEANS OF A SELF-TAPPING SCREW OR BY A MASONRY SCREW. CARE SHOULD BE EXERCISED WHEN UTILIZING THIS METHOD NOT TO BREAK THE SUPPORTING TABS; SCREWS SHOULD BE FIRM BUT NOT SHUG AGAINST THE SUPPORTING TABS. OTHER APPROVED AND LISTED METHODS MAY BE USED, IF THEY ARE FOUND SUITABLE FOR THE CONDITIONS.
5. SPLICES AND CONNECTIONS MADE IN PULL BOXES SHALL BE ACCOMPLISHED WITH THE USE OF GEL CAPS.
6. GROUND RODS ARE TO BE LOCATED AT EACH PULL BOX ASSOCIATED WITH A LIGHTING POLE OR ELECTRICAL LOAD CENTER. THE MIAMI-DADE PUBLIC WORKS LIGHTING STANDARDS REQUIRES TWO 5/8" X 20' COPPER CLAD STEEL GROUNDING ELECTRODES AT EACH SERVICE POINT. THEY MUST BE SPACED A MINIMUM OF SIX FEET AND SIX INCHES FROM EACH OTHER WHEN INSTALLED AS AN ARRAY. WHEN THE GROUNDING ELECTRODE CONDUCTOR IS ENCLOSED IN A METAL RACEWAY, BOTH ENDS OF THE RACEWAYS AND ALL INTERVENING RACEWAYS AND METALLIC ENCLOSURES CONTAINING THE GROUNDING ELECTRODE CONDUCTOR MUST BE BONDED TO THE GROUNDING ELECTRODE CONDUCTOR.
7. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED AS PER F.D.O.T. SPECIFICATIONS SECTION 715-II AND MAINTENANCE AGENCY NEW SPECIFICATIONS. WHERE THE POLE CABLE DISTRIBUTION SYSTEM IS EMPLOYED (WG SQUARE, DOT 3), GROUNDING CONNECTIONS TO THE DISTRIBUTION BLOCK AND LIGHTNING ARRESTER OR OTHER DEVICES CONTAINING LEADS SMALLER THAN # 8 AWG, SHALL BE DONE BY MECHANICAL CONNECTIONS OR OTHER APPROVED MEANS.
8. GROUND CONDUCTOR SHALL HAVE A GREEN JACKET, TYPE THW OR THWN, AND SHALL NOT BE SMALLER THAN NO. 6 AWG. IF CONDUCTORS ARE LARGER THAN NO. 6 AWG THEN THE GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
9. THE CONTRACTOR SHALL CHECK THE CONTINUITY OF GROUNDING CONDUCTOR USING MEGGER OR EQUAL LOW RESISTANCE/HIGH CAPACITY OHMMETER CALIBRATED WITHIN THE PAST 180 DAYS. A NEUTRAL / GROUND LOOP RESISTANCE OF MORE THAN 0.5 OHMS- PER THOUSAND FEET SHALL BE CONSIDERED INADEQUATE.
10. PULL BOX SHALL HAVE EXTERIOR DIMENSIONS OF 27-1/2" X 12" AND SHALL BE CONCRETE OR POLYMER REINFORCED BY HEAVY WEAVE FIBERGLASS WITH POLYMER HEAVY DUTY TRAFFIC COVERS. LIDS SHALL BE OF POLYMER COMPOSITE OF THE HEAVY DUTY TYPE AND MARKED STREET-LIGHTING.
11. ONLY LINE CONDUCTORS WILL BE PERMITTED IN SERVICE PULL BOX. NO GROUND RODS OR ANY OTHER ITEMS OR DEVICES SHALL BE ALLOWED.
12. NO UNNECESSARY SPLICING WILL BE PERMITTED IN PULL BOXES.
13. THE CONTRACTOR SHALL CONSTRUCT CONCRETE SLABS AROUND ALL PULL BOXES AND SERVICE POINTS LOCATED IN UNPAVED/GRASS AREA. SEE INDEX 17500 FOR DETAILS AND NOTES. COST OF THE SLAB CONSTRUCTION, INCLUDING REINFORCED STEEL FABRIC, SHALL BE INCLUDED IN THE PRICE FOR CLASS 1 CONCRETE (MISCELLANEOUS).
14. PULL BOX COVER SHALL BE BOLTED TO THE PULL BOX USING A TAMPER PROOF NUT.
15. INSTALLATIONS OF NEW PULL BOXES SHALL BE PERFORMED BY QUALIFY ELECTRICAL CONTRACTOR. WHEN NEW PULL BOX IS REPLACING EXISTING PULL BOX, THE CONTRACTOR SHALL ADJUST CONDUITS AND CABLES TO FIT THE NEW PULL BOX ELEVATION. COST OF ADJUSTMENTS IS INCLUDED IN THE PULL BOX PAY ITEM.

16. LIGHT POLE FOUNDATION SHALL BE CONCRETE AS PER INDEX 17503. (SCREW TYPE POLE BASE IS NOT ALLOWED).

17. THE POLE FOUNDATION CONDUITS SHALL EXTEND FROM 1 TO 2 INSIDE THE POLE BASE.

18. PAYMENT FOR CONDUIT SHALL BE BASED ON THE HORIZONTAL PATH OF THE INSTALLED CONDUIT AS MEASURED BETWEEN THE CENTER OF PULL BOXES, POLES, JUNCTION BOXES, ETC. NO ALLOWANCES SHALL BE MADE FOR SWEEPS OR VERTICAL DISTANCES ABOVE OR BELOW GROUND.

19. PAYMENT FOR CONDUCTOR SHALL BE BASED ON THE LINEAR FEET OF SINGLE CONDUCTOR IN HORIZONTAL MEASUREMENT. NO ALLOWANCES SHALL BE MADE FOR CONNECTION IN PULL BOXES, CABINETS OR POLES.

20. ALL CONDUCTORS SHALL BE TYPE USE/RHW-XLP AS SPECIFIED IN THE FDOT SPECIFICATION SECTION 992 AND AS PER AGENCY SPECIFICATION. OTHER TYPE OF CABLE IS NOT ALLOWED. (EXCEPT GROUND WIRE WHICH SHALL BE TYPE THW OR THWN).

21. THE CONTRACTOR IS RESPONSIBLE TO PAY THE POWER COMPANY THE COST OF PROVIDING ELECTRICITY TO THE TEMPORARY AND PROPOSED LIGHTING FROM THE MOMENT THE EXISTING SERVICE IS DISCONNECTED UNTIL FINAL ACCEPTANCE OF THE NEW LIGHTING BY THE MAINTAINING AGENCY. COST TO BE INCLUDED IN PAY ITEM 102-1 MAINTENANCE OF TRAFFIC.

22. SUBMITTAL DATA PRIOR TO ANY PROCUREMENT ORDER THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR ALL MATERIALS PROPOSED FOR THE PROJECT AND SHALL INCLUDE, BUT NOT LIMITED TO:

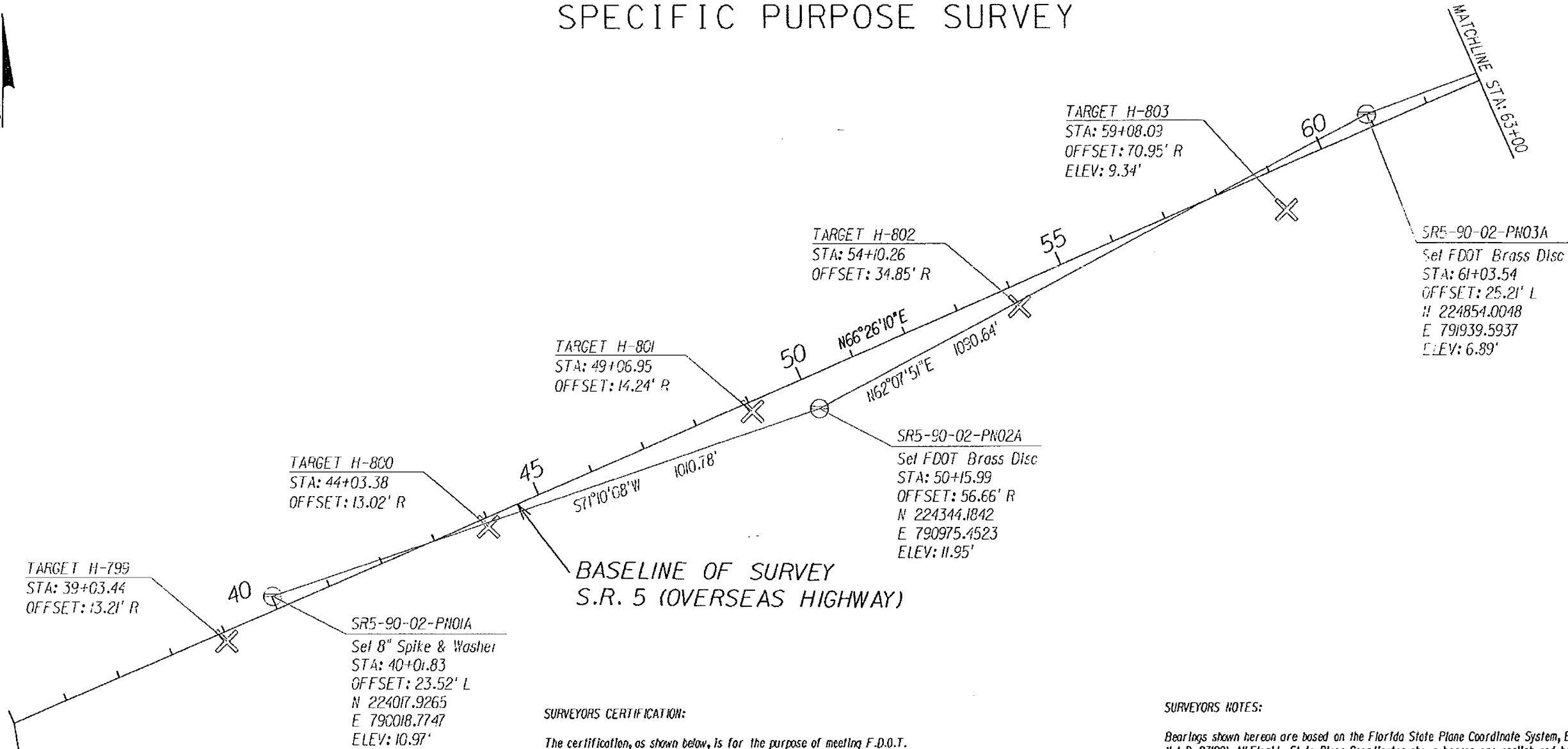
- A. SHOP DRAWINGS FOR THE LUMINARIES, POLES AND BASES.
- B. CONDUCTORS, CONDUIT, GROUND RODS AND PULL BOXES.
- C. FUSES, FUSE HOLDERS, SURGE PROTECTORS AND POLE DISTRIBUTION SYSTEMS.
- D. SAFETY SWITCHES, PANELS, CIRCUIT BREAKERS, AND OTHER MAJOR SERVICE POINT COMPONENTS. SEVEN COPIES OF THE SHOP DRAWINGS AND DESIGN DATA SHALL BE SUBMITTED TO THE ENGINEER WITH A COPY OF THE SUBMITTAL LETTER SENT TO THE DEPARTMENT'S RESIDENT CONSTRUCTION ENGINEER IN CHARGE OF THE PROJECT. ALLOW A 45 DAY TURNAROUND FOR SUBMITTALS.

23. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2" X 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE AS SHOWN ON THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. TAG SHALL BE PLACED 5 FEET ABOVE GRADE.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68J5-23.003, F.A.C.

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES SHEET NO. 11
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR-5	MONROE	405582-8-52-01	

SPECIFIC PURPOSE SURVEY



**BASELINE OF SURVEY
S.R. 5 (OVERSEAS HIGHWAY)**

BEGINNING OF SURVEY BASELINE
 STA: 35+00.00
 N 223790.0757
 E 789563.225

SURVEYORS CERTIFICATION:

The certification, as shown below, is for the purpose of meeting F.D.O.T. P.E.D.D.'s requirements only.

I certify that the survey information shown hereon is a representation of the P.N.C. sheets prepared by, and certified by E.R. Brownell & Associates, Inc., project number 405646-412485, dated 12/05/2002; and that said P.N.C. sheets are filed in the Surveying & Mapping section of F.D.O.T. District VI. No modifications to the content of the said P.N.C. sheets were made other than to update the file to current F.D.O.T. CADD standards for electronic delivery.

David L. Futch
 Florida Professional Surveyor and Mapper No. 4843
 1000 NW 11th Avenue
 Miami, Florida 33172
 Date: December 4, 2007

NOT VALID UNLESS SIGNED AND EMBOSSED WITH SURVEYORS SEAL

SURVEYORS NOTES:

Bearings shown hereon are based on the Florida State Plane Coordinate System, East Zone (0901), N.A.D. 83(90). All Florida State Plane Coordinates shown hereon are english and based on same.

Control point GPS 34 was tied to the PIC traverse and GPS 35 was included as part of the network.

GPS 34 & 35 were held fixed (this resulted in the positions of the targets south of snake creek to be substantially in agreement with each other) and a best fit with the targets north of snake creek was utilized. This was done in an attempt to maintain continuity with all of the work previously performed within this area.

Elevations are referred to H.G.V. DATUM (1929). Elevations are based on a benchmark provided by the F.D.O.T. The same being a brass disc in concrete base of anchor at Treasure Village Shops & Cafe. Stamped K276. Elevation 8.18 Feet H.G.V.D. (1929)

Conversions for latitude, longitude, scale factor and convergence, from state plane coordinates was calculated using Corpcson version 5.11.08.

This Primary Network is along S.R. 5 (Overseas Highway) from station 35+00 to station 138+12.86.

The baseline of survey was supplied by F.D.O.T. in a digital format along with the location of the aerial targets.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**F.D.O.T. / DISTRICT VI
 DAVID L. FUTCH - P.L.S. No. 4843
 1000 NW 11th AVENUE
 MIAMI, FL 33172**

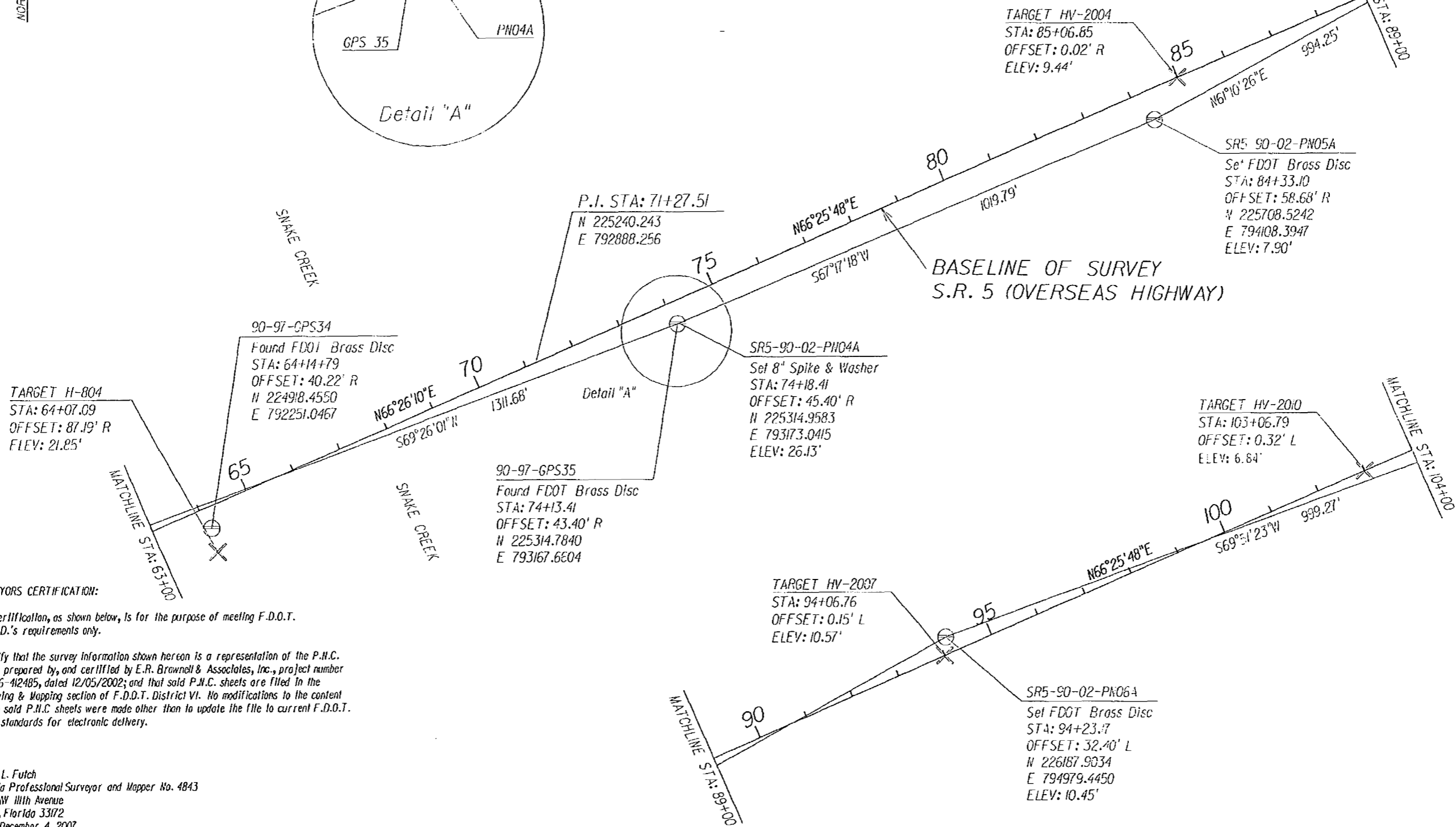
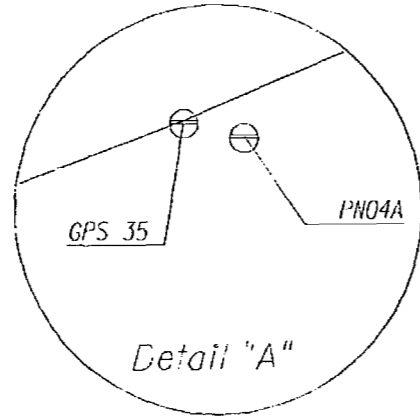
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

PROJECT NETWORK CONTROL

SHEET NO.
12

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6807-T.0025, F.A.C.

SPECIFIC PURPOSE SURVEY



SURVEYORS CERTIFICATION:

The certification, as shown below, is for the purpose of meeting F.D.O.T. P.E.D.D.'s requirements only.

I certify that the survey information shown hereon is a representation of the P.N.C. sheets prepared by, and certified by E.R. Brownell & Associates, Inc., project number 405646-412485, dated 12/05/2002; and that said P.N.C. sheets are filed in the Surveying & Mapping section of F.D.O.T. District VI. No modifications to the content of the said P.N.C. sheets were made other than to update the file to current F.D.O.T. CADD standards for electronic delivery.

David L. Futch
 Florida Professional Surveyor and Mapper No. 4843
 1000 NW 11th Avenue
 Miami, Florida 33172
 Date: December 4, 2007

NOT VALID UNLESS SIGNED AND EMBOSSED WITH SURVEYORS SEAL

REVISIONS						F.D.O.T. / DISTRICT VI DAVID L. FUTCH - P.L.S. No. 4843 1000 NW 11th AVENUE MIAMI, FL 33172	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NETWORK CONTROL	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		13
						SR-5	MONROE	405582-8-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G-7.0025, F.A.C.

SPECIFIC PURPOSE SURVEY

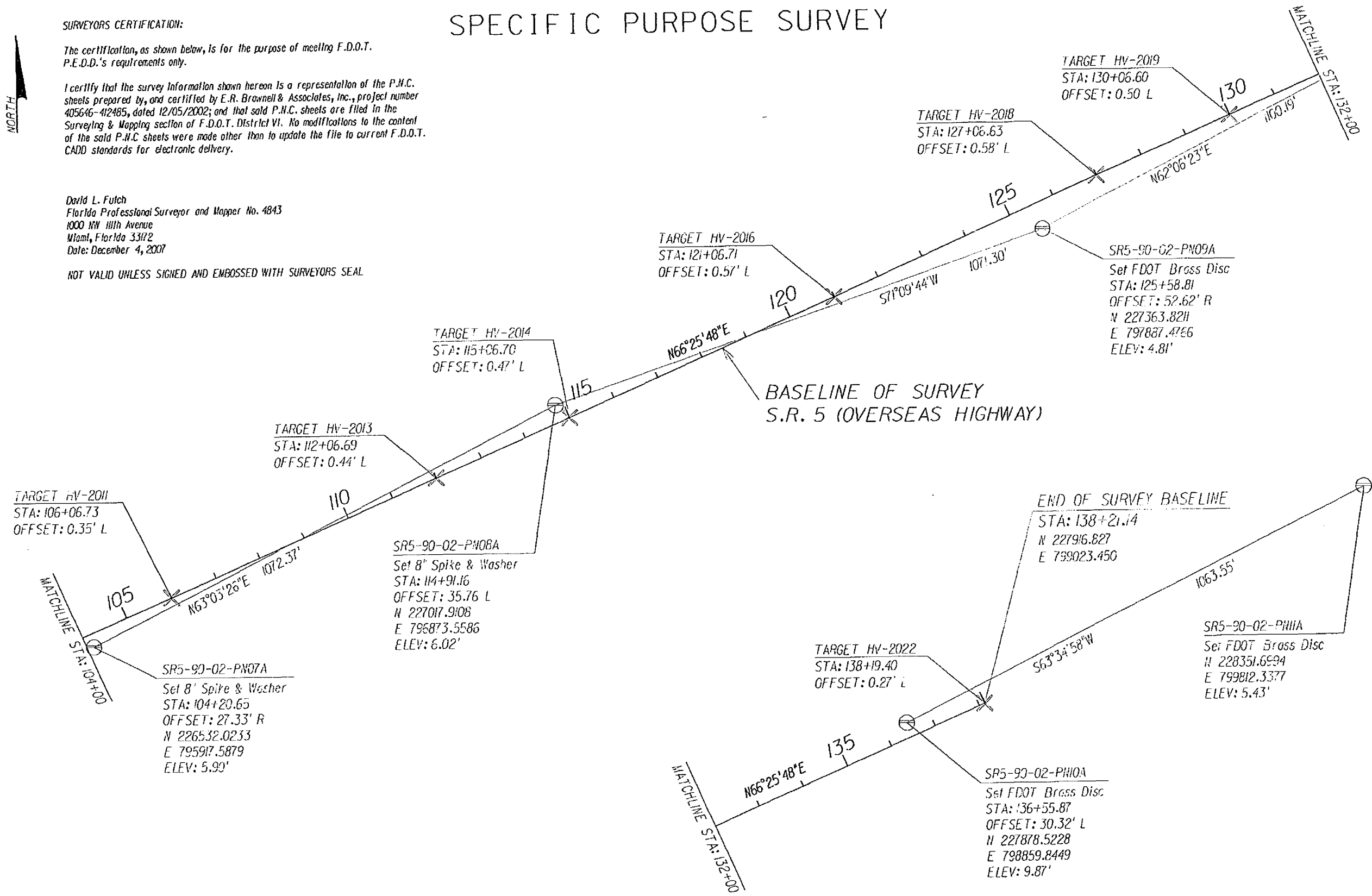
SURVEYORS CERTIFICATION:

The certification, as shown below, is for the purpose of meeting F.D.O.T. P.E.D.D.'s requirements only.

I certify that the survey information shown hereon is a representation of the P.N.C. sheets prepared by, and certified by E.R. Brownell & Associates, Inc., project number 405646-412485, dated 12/05/2002; and that said P.N.C. sheets are filed in the Surveying & Mapping section of F.D.O.T. District VI. No modifications to the content of the said P.N.C. sheets were made other than to update the file to current F.D.O.T. CADD standards for electronic delivery.

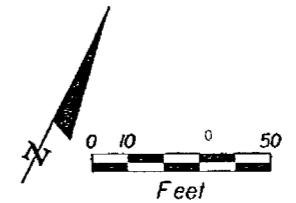
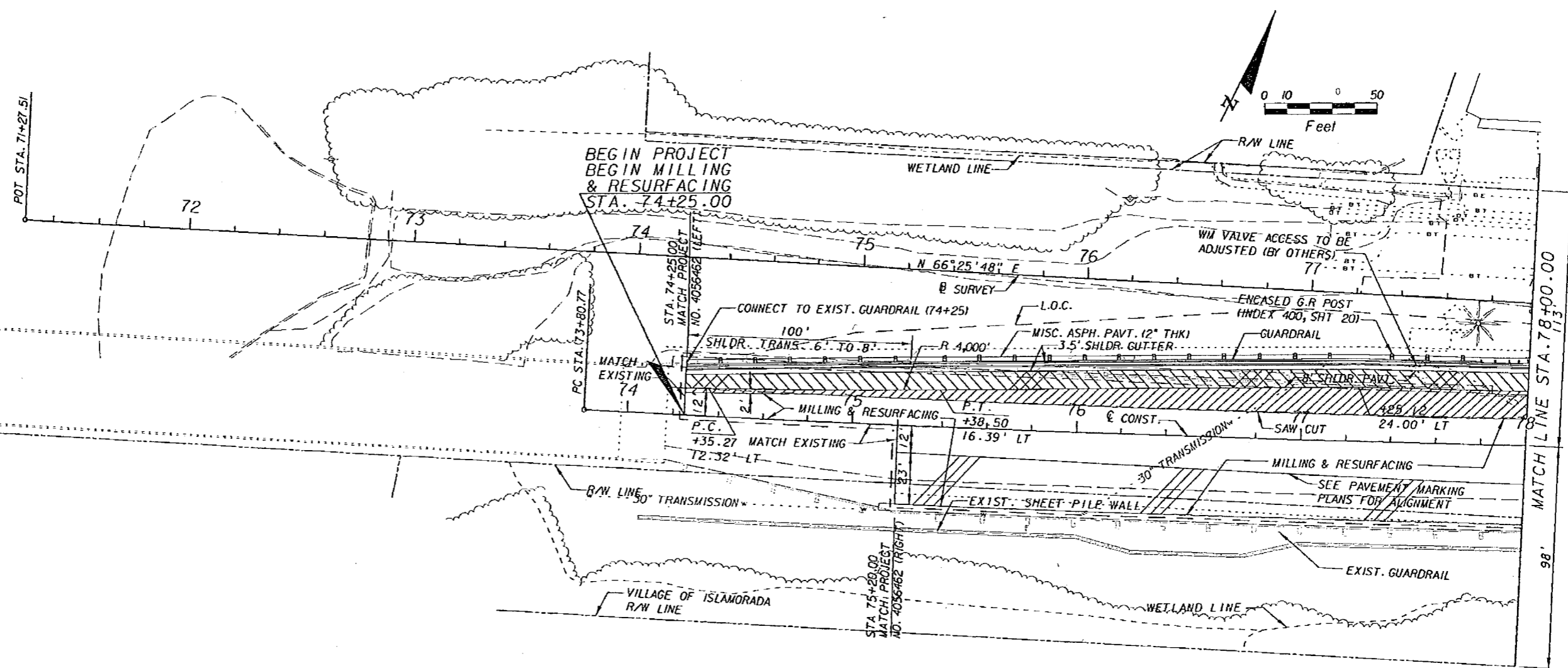
David L. Futch
 Florida Professional Surveyor and Mapper No. 4843
 1000 NW 11th Avenue
 Miami, Florida 33172
 Date: December 4, 2007

NOT VALID UNLESS SIGNED AND EMBOSSED WITH SURVEYORS SEAL



REVISIONS						F.D.O.T. / DISTRICT VI DAVID L. FUTCH - P.L.S. No. 4843 1000 NW 11th AVENUE MIAMI, FL 33172	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NETWORK CONTROL	SHEET NO. 14
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR-5	MONROE	405582-8-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6007-7.0025, F.A.C.



- LEGEND:**
- DENOTES WIDENING
 - DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
 - DENOTES PAVED SHOULDER
 - DENOTES DRAINAGE STRUCTURE
 - L.O.C. LIMITS OF CONSTRUCTION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

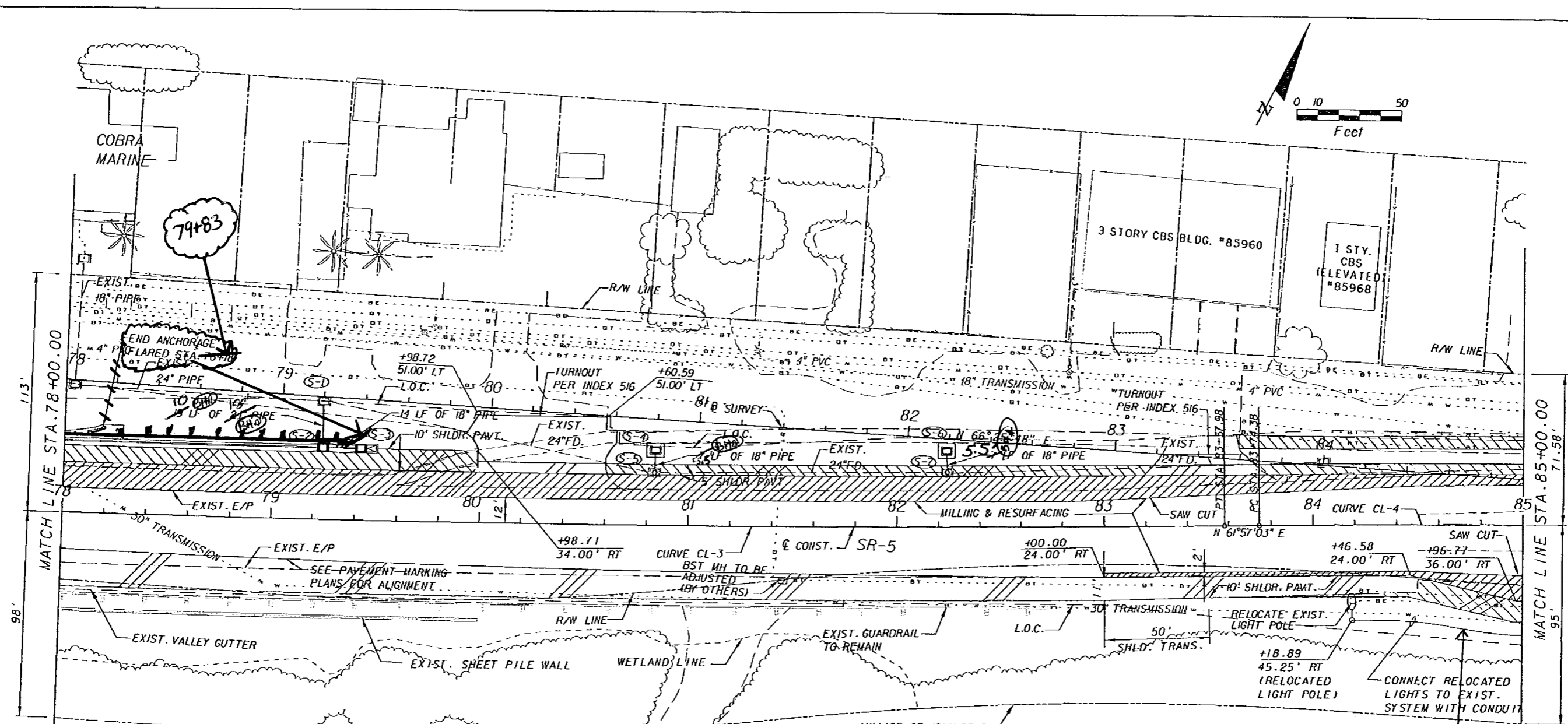
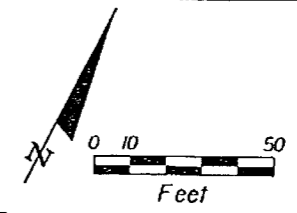
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

ROADWAY PLAN

SHEET NO.
16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6015-23.003, F.A.C.



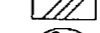
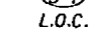



CURVE DATA CL-3
 PI STA. = 78+69.62
 DELTA = 4° 28' 45" (LT)
 D = 0° 27' 30"
 T = 488.85'
 L = 977.21'
 R = 12,500.00'
 PC STA. = 73+80.77
 PT STA. = 83+57.98
 e = NC

CURVE DATA CL-4
 PI STA. = 87+65.46
 DELTA = 4° 28' 45" (RT)
 D = 0° 34' 23"
 T = 391.08'
 L = 781.76'
 R = 10,000.00'
 PC STA. = 83+74.38
 PT STA. = 91+56.14
 e = NC

130'-2" PVC
 715-1-17
 390'-#6W#E
 715-1-12

LEGEND:

-  DENOTES WIDENING
-  DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
-  DENOTES NEW PAVED SHOULDER
-  DENOTES DRAINAGE STRUCTURE
-  L.O.C. LIMITS OF CONSTRUCTION

[Handwritten Signature]
 2/10/15
 8/15/19

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

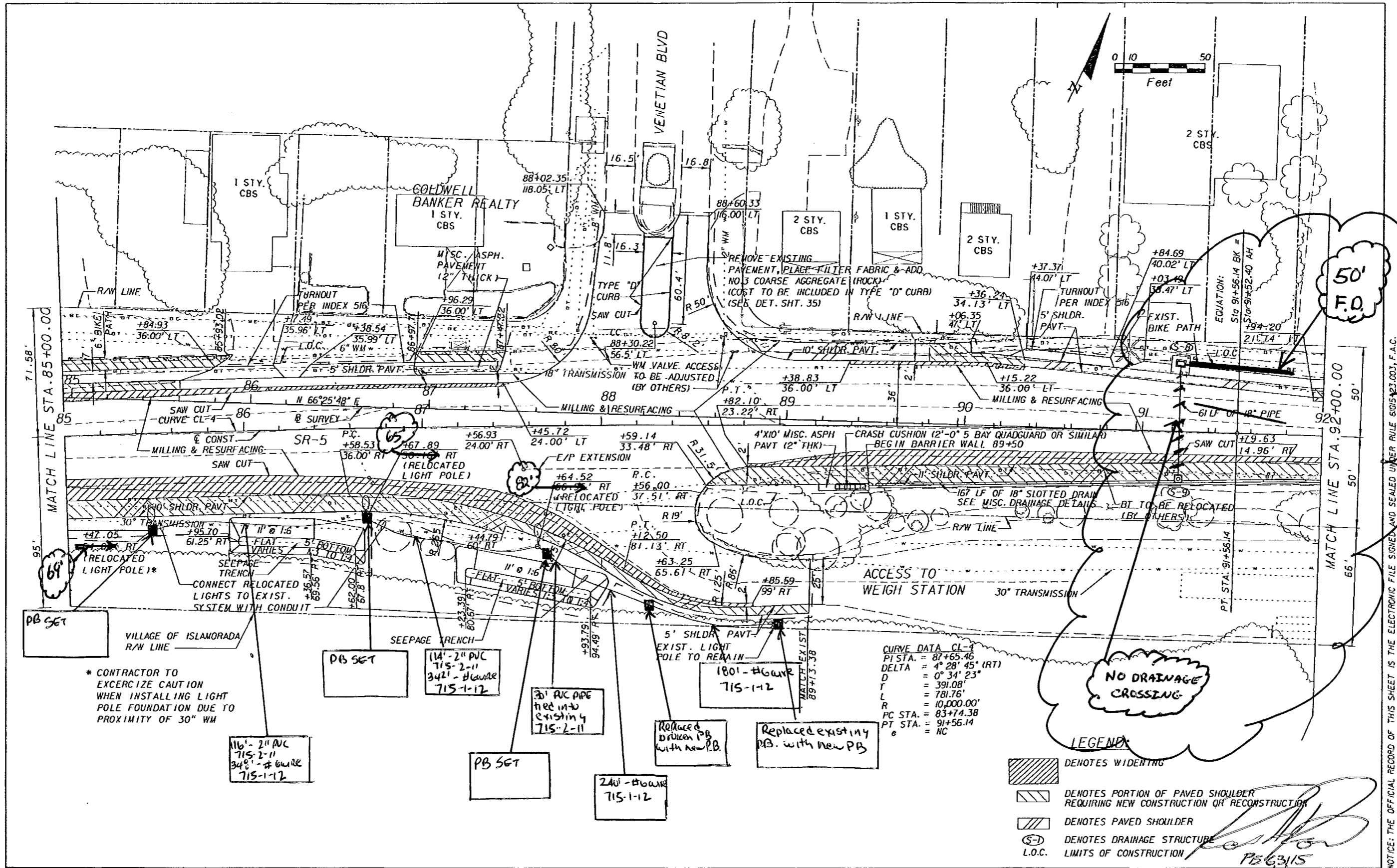
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

ROADWAY PLAN

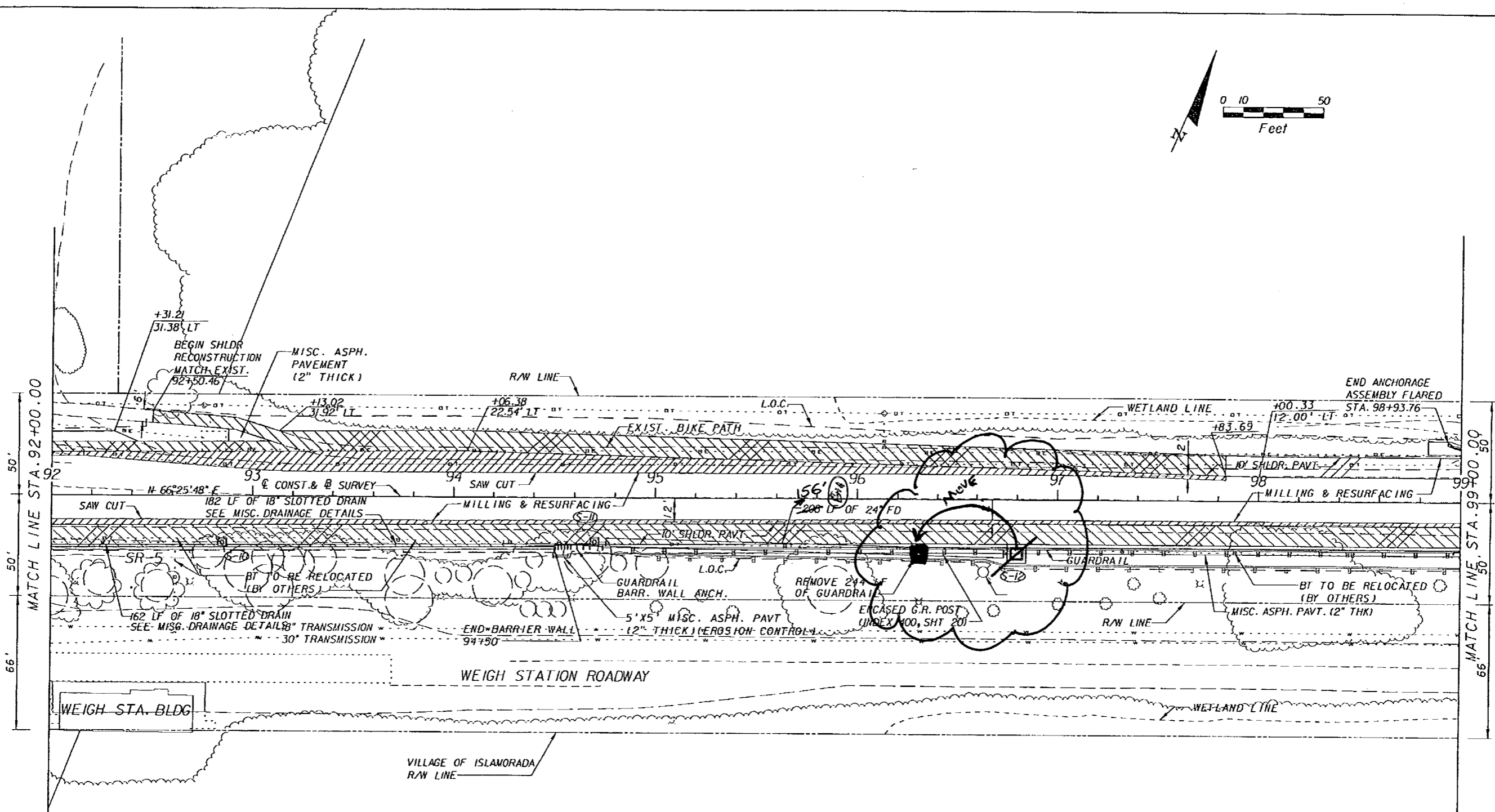
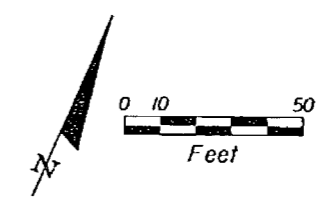
SHEET NO. 17

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.


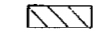
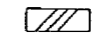




REVISIONS				BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 18
DATE	BY	DESCRIPTION	DATE		BY	DESCRIPTION	ROAD NO.		
						SR-5	MONROE	405582-8-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



LEGEND:

-  DENOTES WIDENING
-  DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
-  DENOTES PAVED SHOULDER
-  DENOTES DRAINAGE STRUCTURE LIMITS OF CONSTRUCTION
-  DENOTES LIMITS OF CONSTRUCTION

[Handwritten Signature]
 P.E. 6315
 8/6/09

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

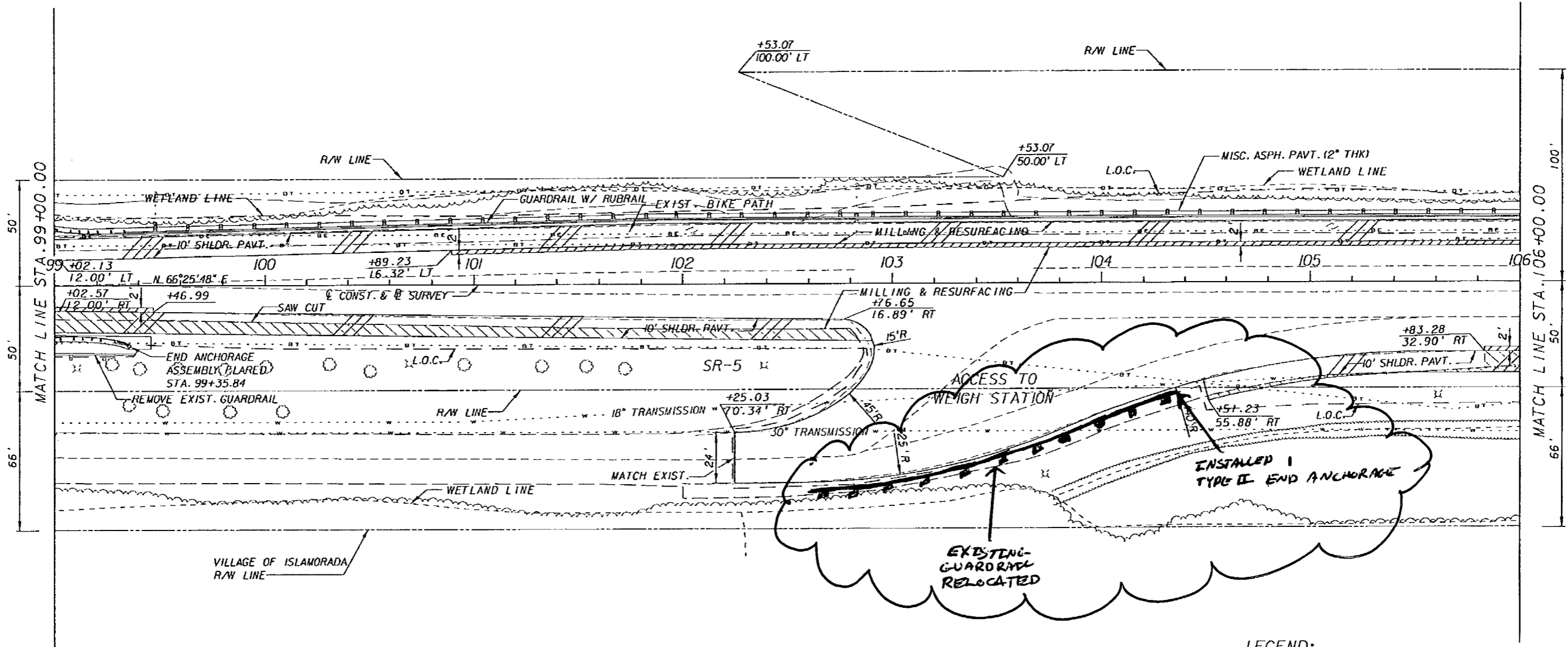
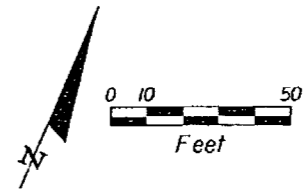
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

ROADWAY PLAN

SHEET NO.
19

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6095-23.003, F.A.C.



LEGEND:

- DENOTES WIDENING
- DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
- DENOTES PAVED SHOULDER
- DENOTES DRAINAGE STRUCTURE
- L.O.C. DENOTES LIMITS OF CONSTRUCTION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

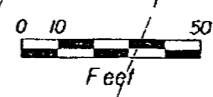
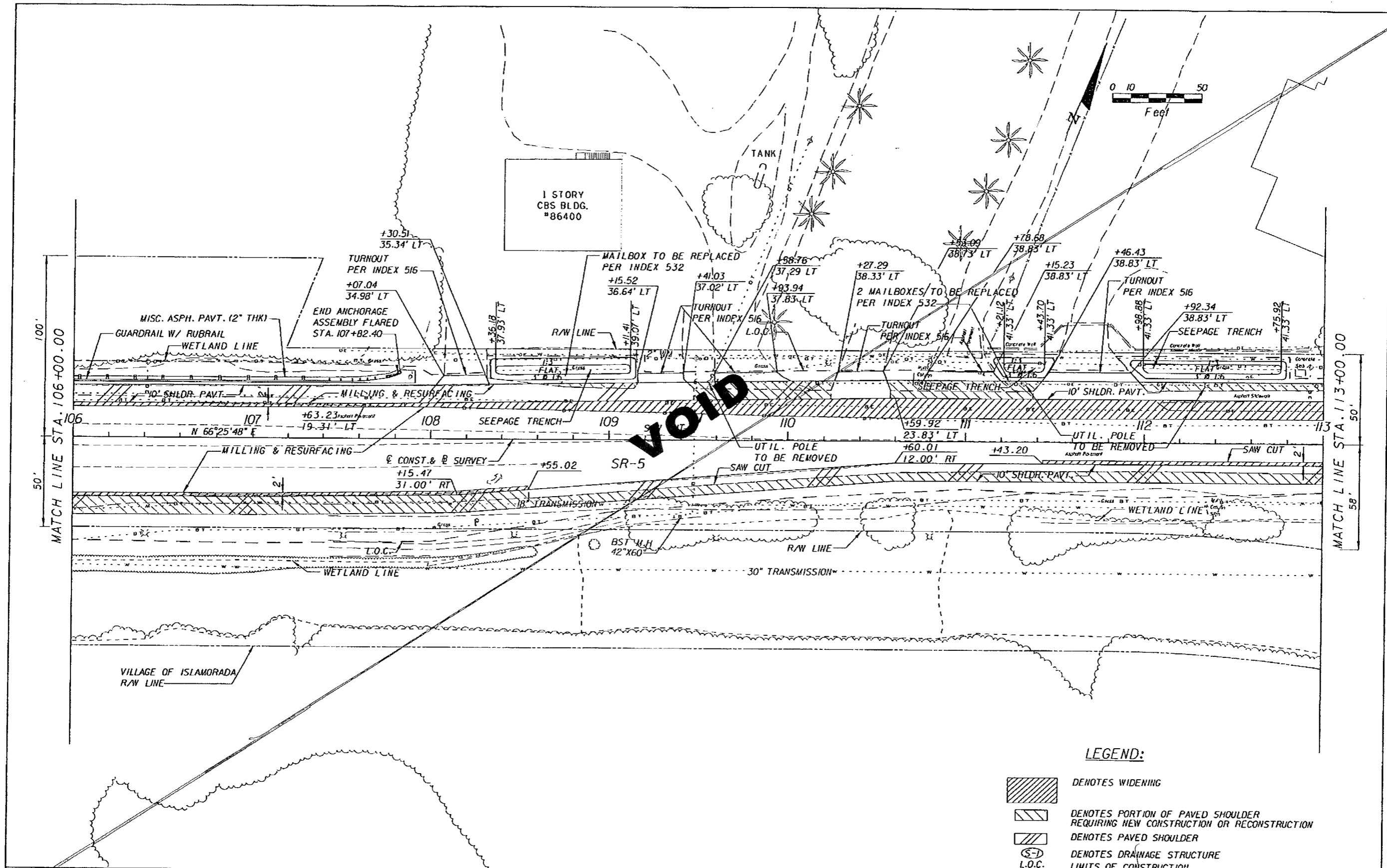
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

[Signature]
 8/6/04
 22163115

ROADWAY PLAN

SHEET NO.
20

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



VOID

LEGEND:

- DENOTES WIDENING
- DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
- DENOTES PAVED SHOULDER
- DENOTES DRAINAGE STRUCTURE
- DENOTES LIMITS OF CONSTRUCTION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

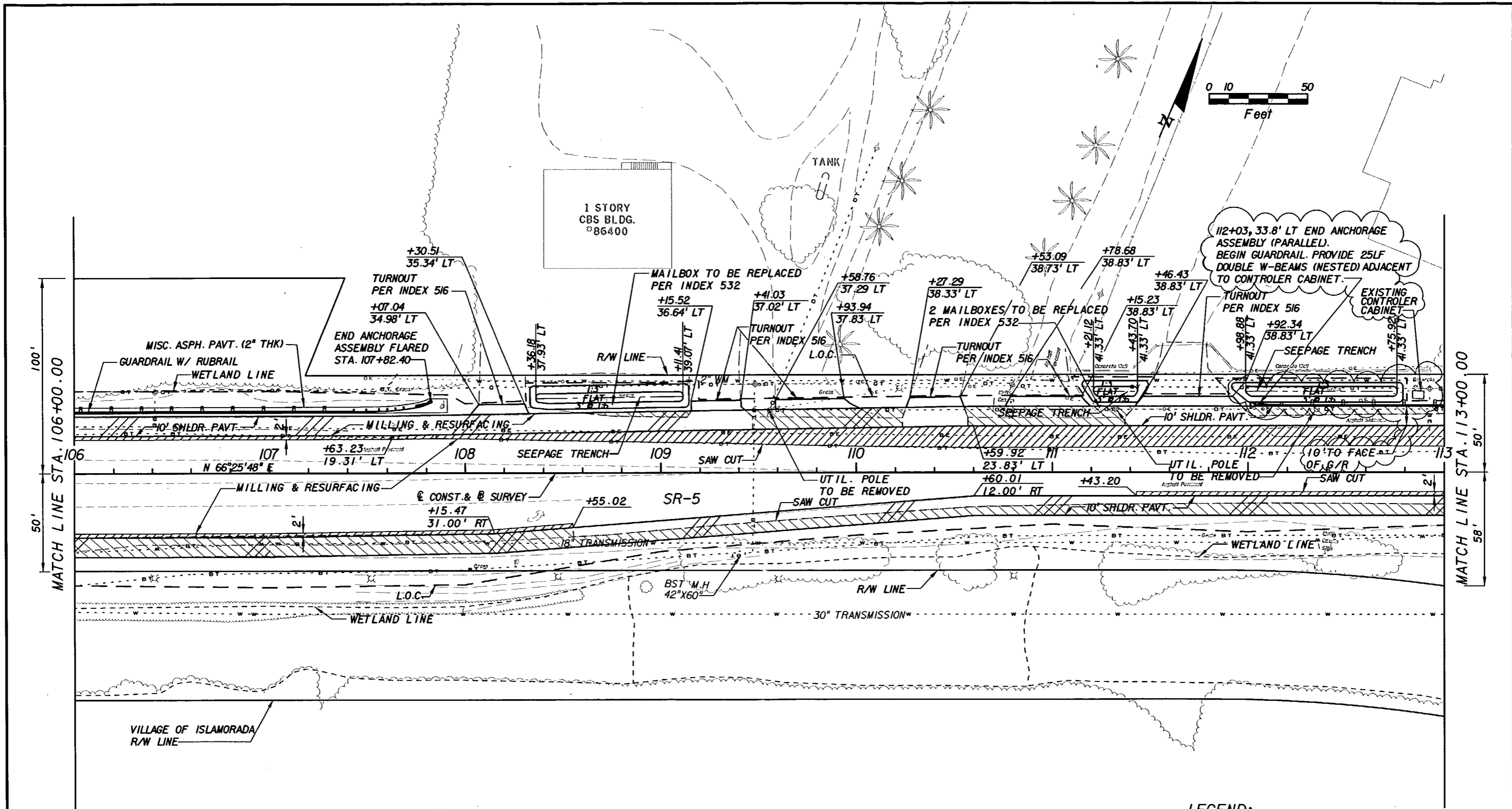
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01


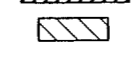
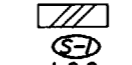
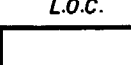
ROADWAY PLAN

SHEET NO.
21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



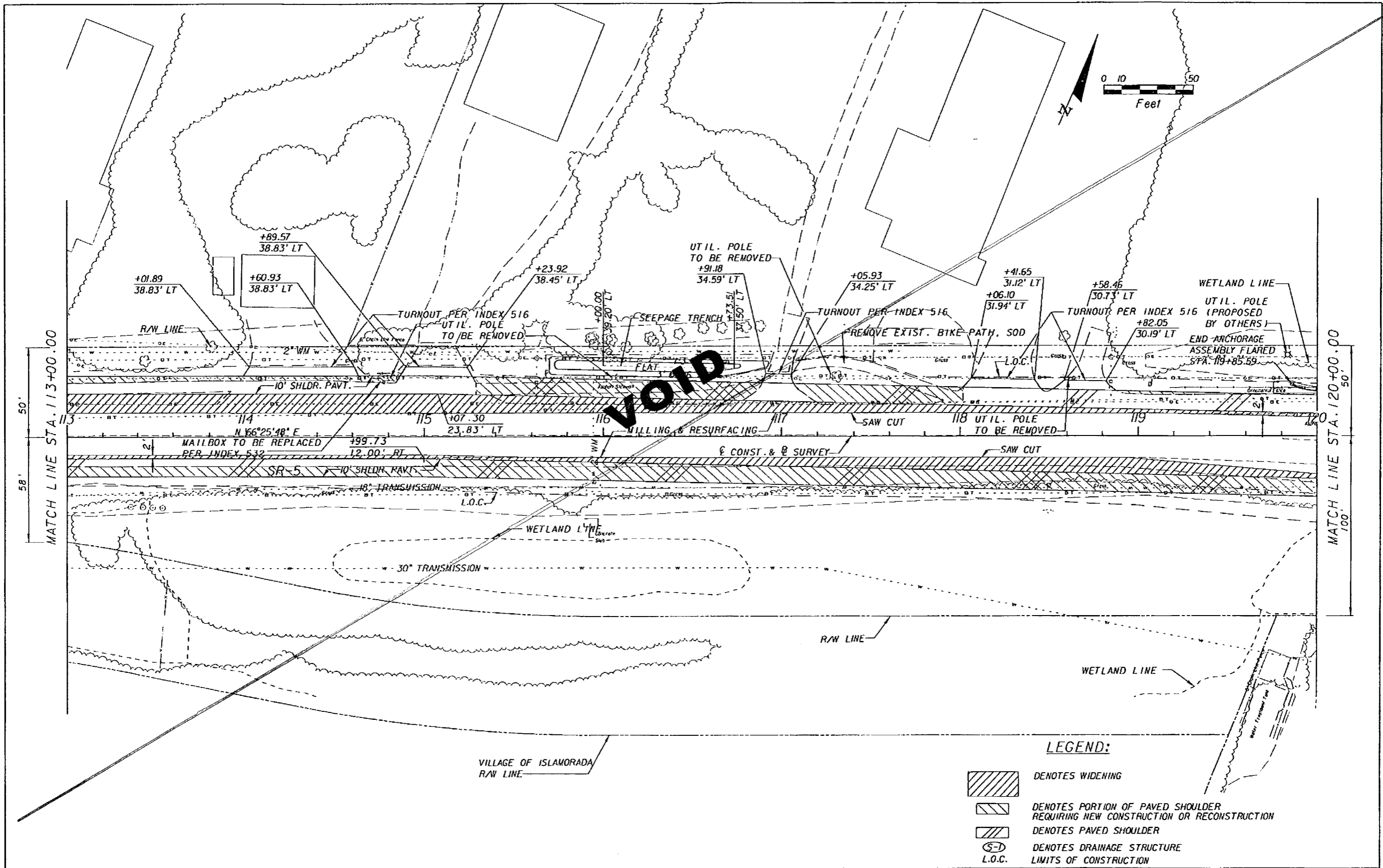
LEGEND:

-  DENOTES WIDENING
-  DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
-  DENOTES PAVED SHOULDER
-  DENOTES DRAINAGE STRUCTURE
- L.O.C. LIMITS OF CONSTRUCTION

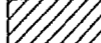
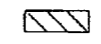
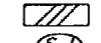


J 6/18/09

REVISIONS						BOLTON, PEREZ & ASSOCIATES		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 21
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.			ROAD NO.	COUNTY		
6/18/2009	FVG	ADDED G/R 112+03 TO 113+83, LT							SR-5	MONROE	405582-8-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



LEGEND:

-  DENOTES WIDENING
-  DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
-  DENOTES PAVED SHOULDER
-  DENOTES DRAINAGE STRUCTURE
-  L.O.C. DENOTES LIMITS OF CONSTRUCTION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

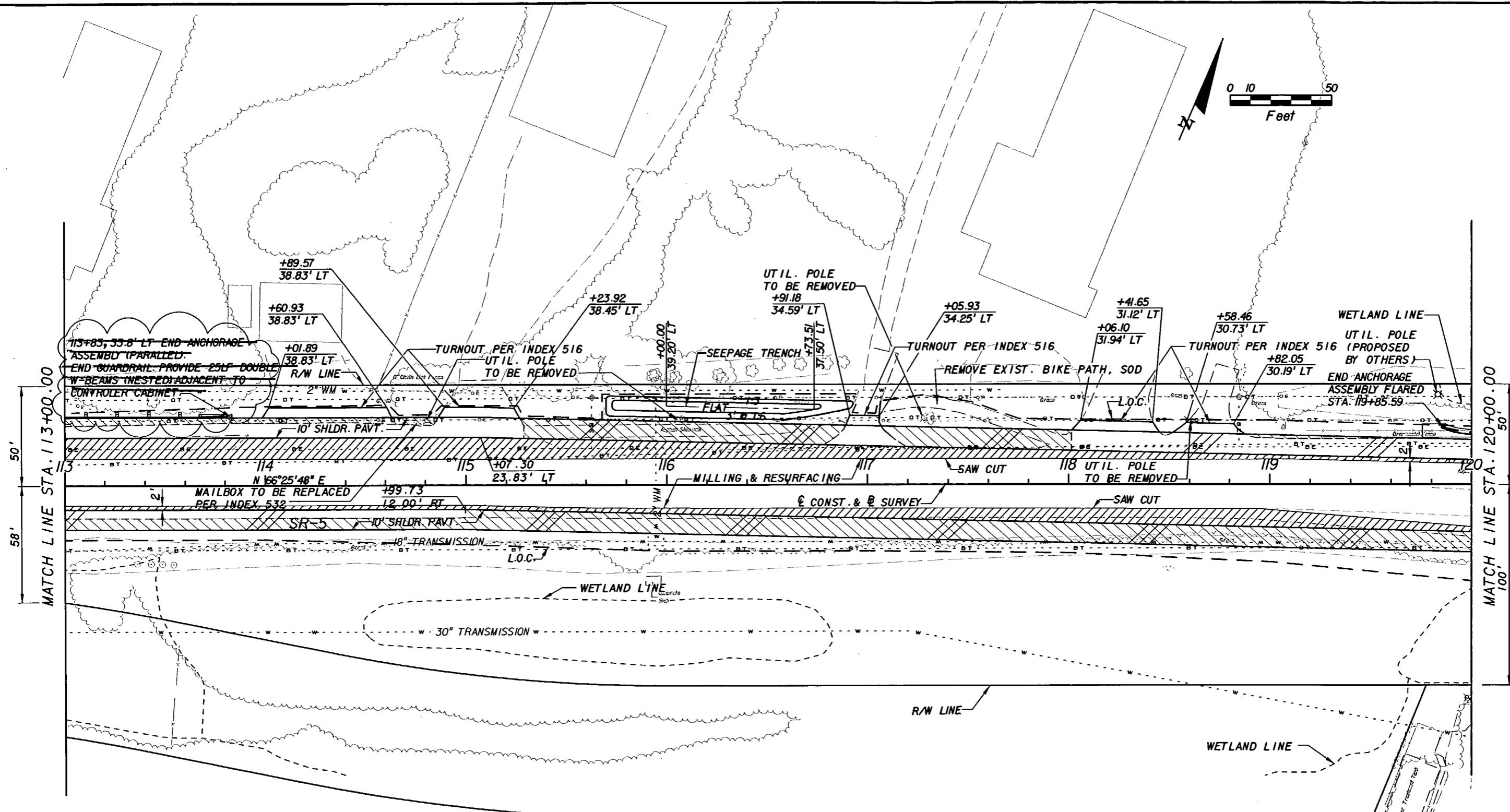
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01






ROADWAY PLAN

SHEET NO.
22

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



LEGEND:

-  DENOTES WIDENING
-  DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
-  DENOTES PAVED SHOULDER
-  DENOTES DRAINAGE STRUCTURE
-  L.O.C. DENOTES LIMITS OF CONSTRUCTION

J 6/18/09

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6/18/2009	FVG	ADDED G/R 112+03 TO 113+83, LT			

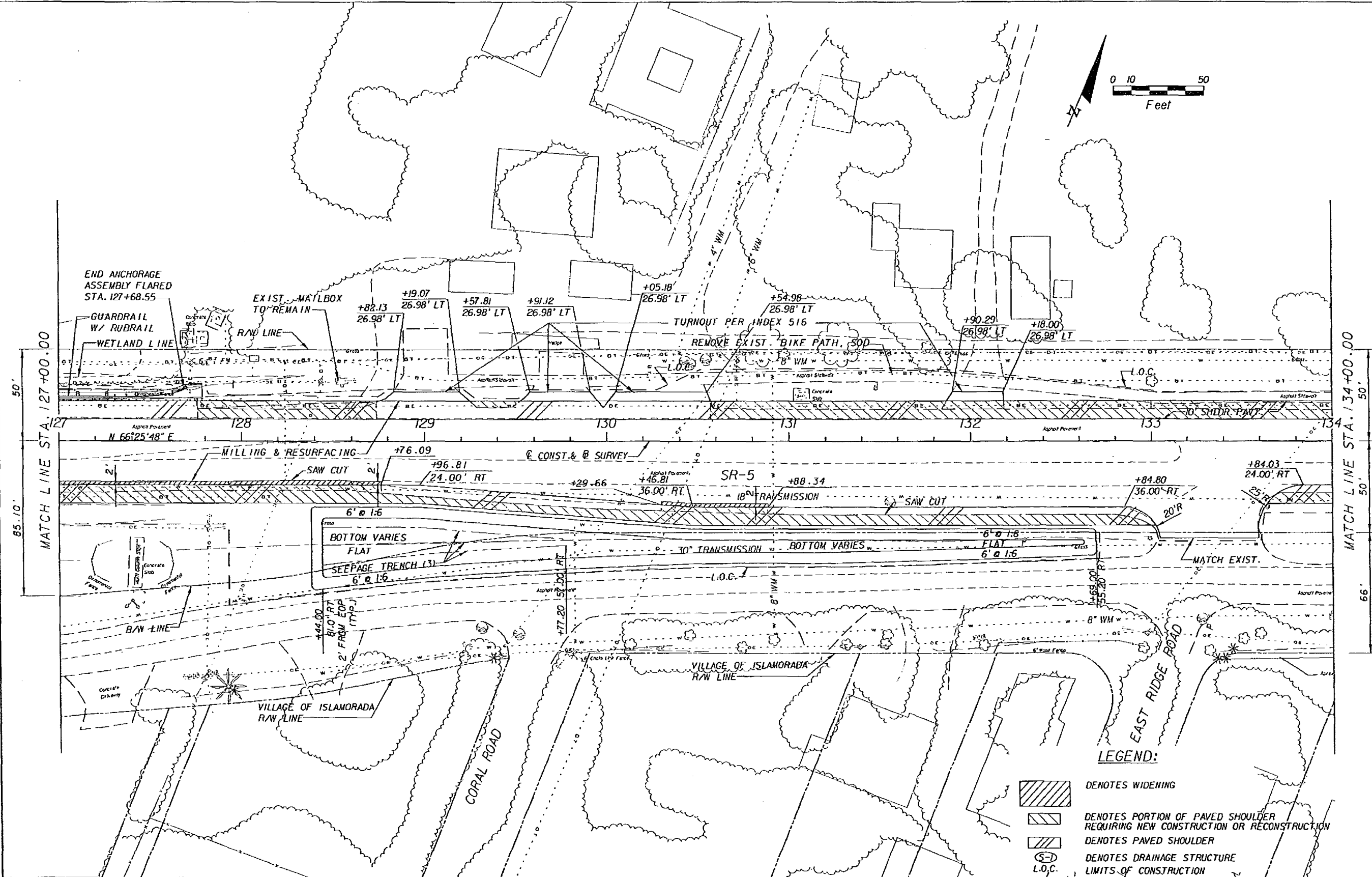
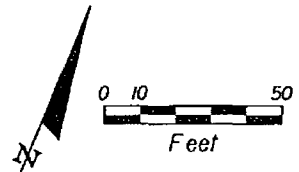
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.


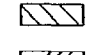
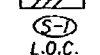
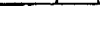

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

ROADWAY PLAN

SHEET NO.
22

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.



- LEGEND:**
-  DENOTES WIDENING
 -  DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
 -  DENOTES PAVED SHOULDER
 -  DENOTES DRAINAGE STRUCTURE
 -  L.O.C. DENOTES LIMITS OF CONSTRUCTION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

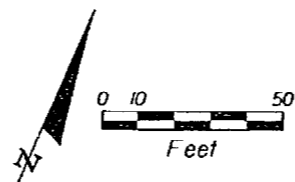
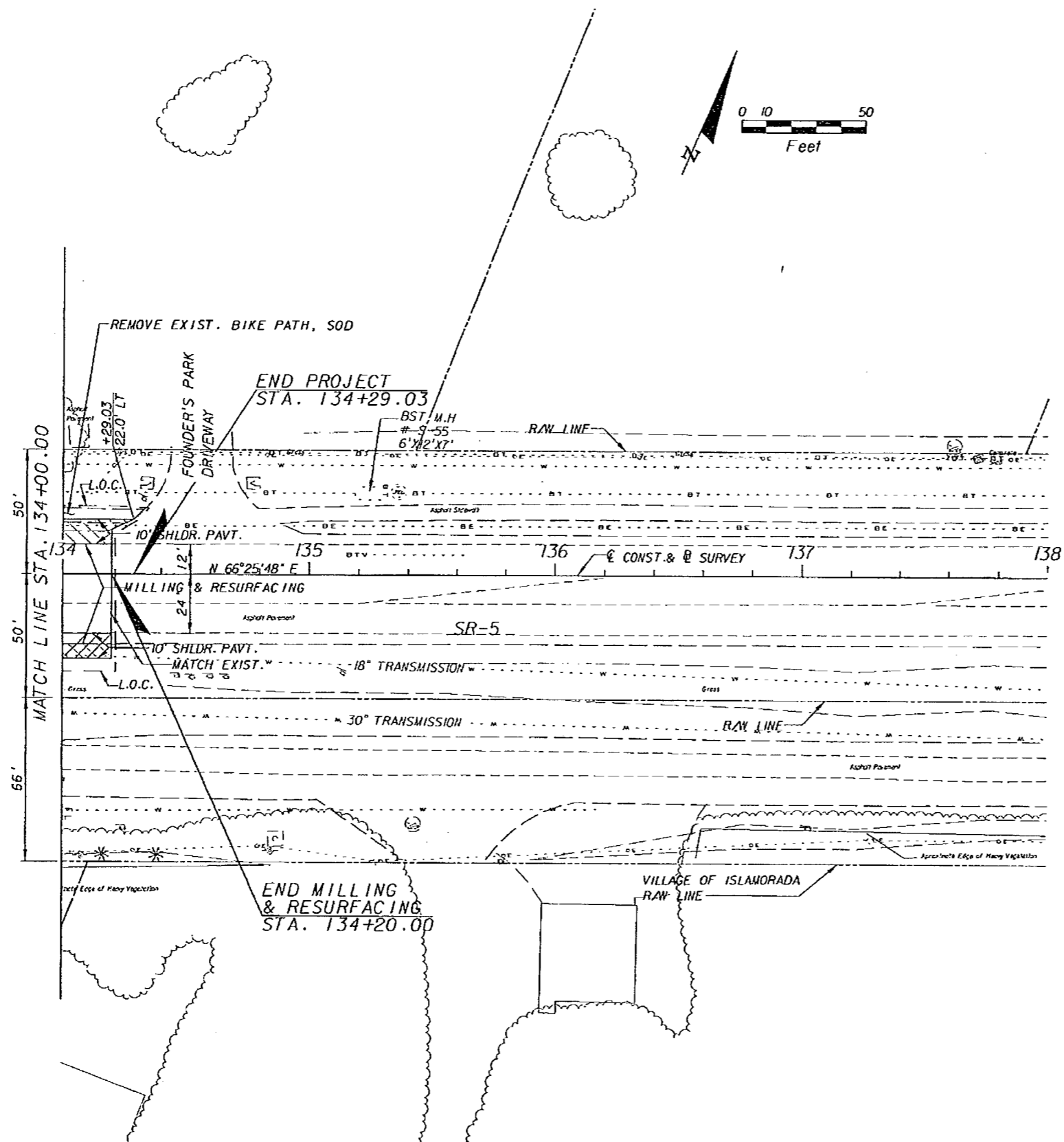
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.






STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

ROADWAY PLAN

SHEET NO.
24

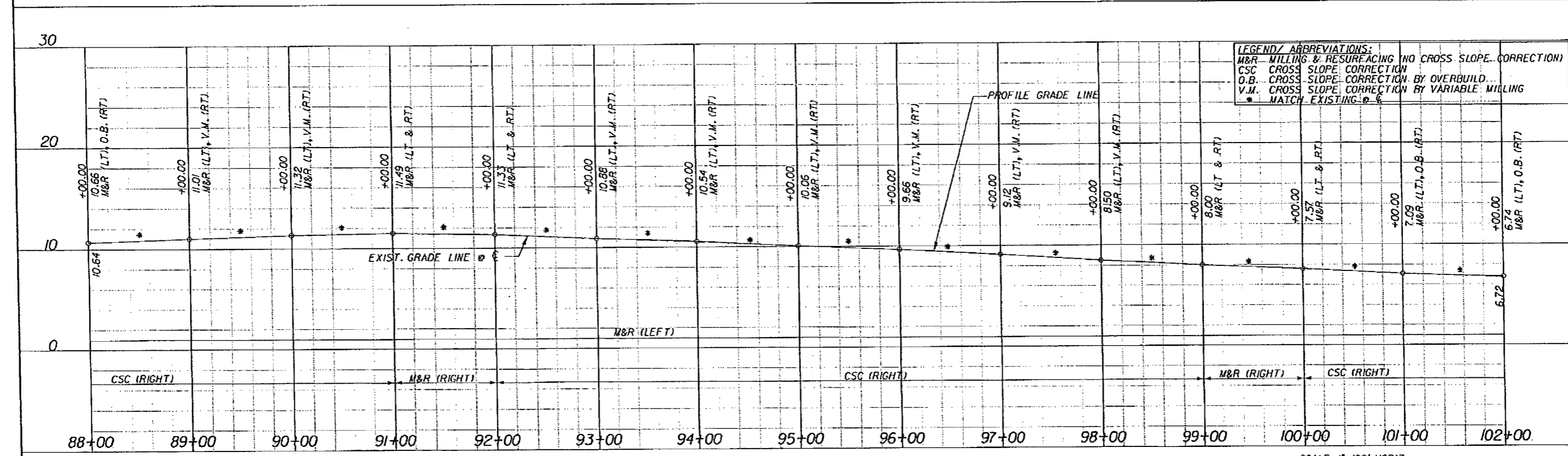
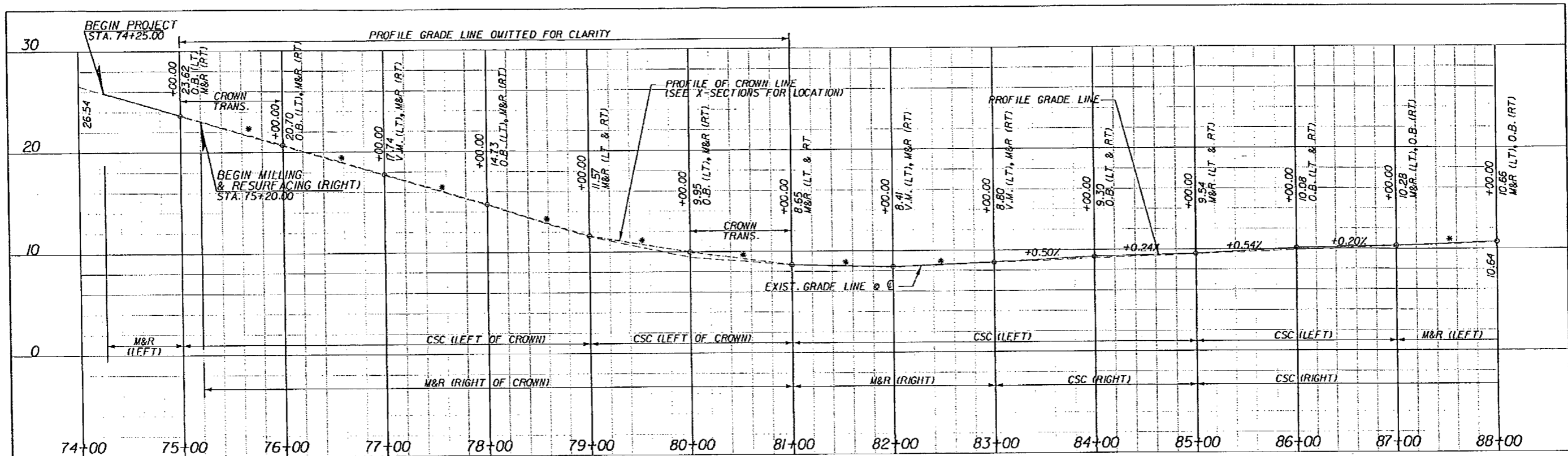
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- LEGEND:**
-  DENOTES WIDENING
 -  DENOTES PORTION OF PAVED SHOULDER REQUIRING NEW CONSTRUCTION OR RECONSTRUCTION
 -  DENOTES PAVED SHOULDER
 -  DENOTES DRAINAGE STRUCTURE
 -  L.O.C. LIMITS OF CONSTRUCTION

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60G15-23.003, F.A.C.

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<h2 style="margin: 0;">ROADWAY PLAN</h2>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		25
						SR-5	MONROE	405582-8-52-01			



LEGEND/ ABBREVIATIONS:
 M&R MILLING & RESURFACING (NO CROSS SLOPE CORRECTION)
 CSC CROSS SLOPE CORRECTION
 O.B. CROSS SLOPE CORRECTION BY OVERBUILD
 V.M. CROSS SLOPE CORRECTION BY VARIABLE MILLING
 * MATCH EXISTING @

SCALE: 1"=100' HORIZ.
 1"=10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

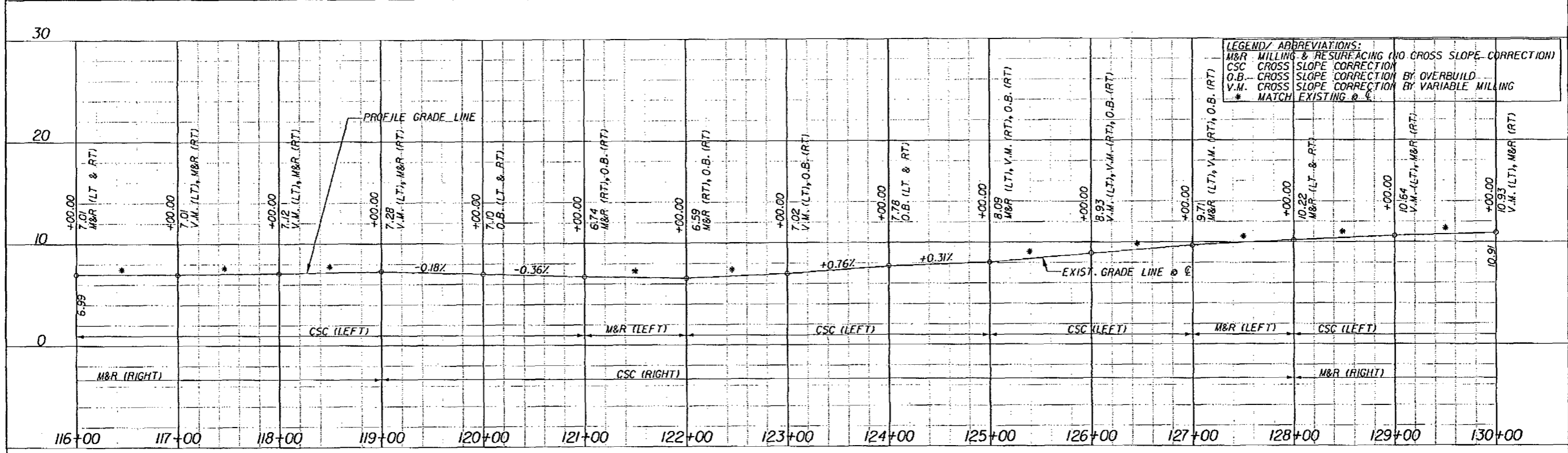
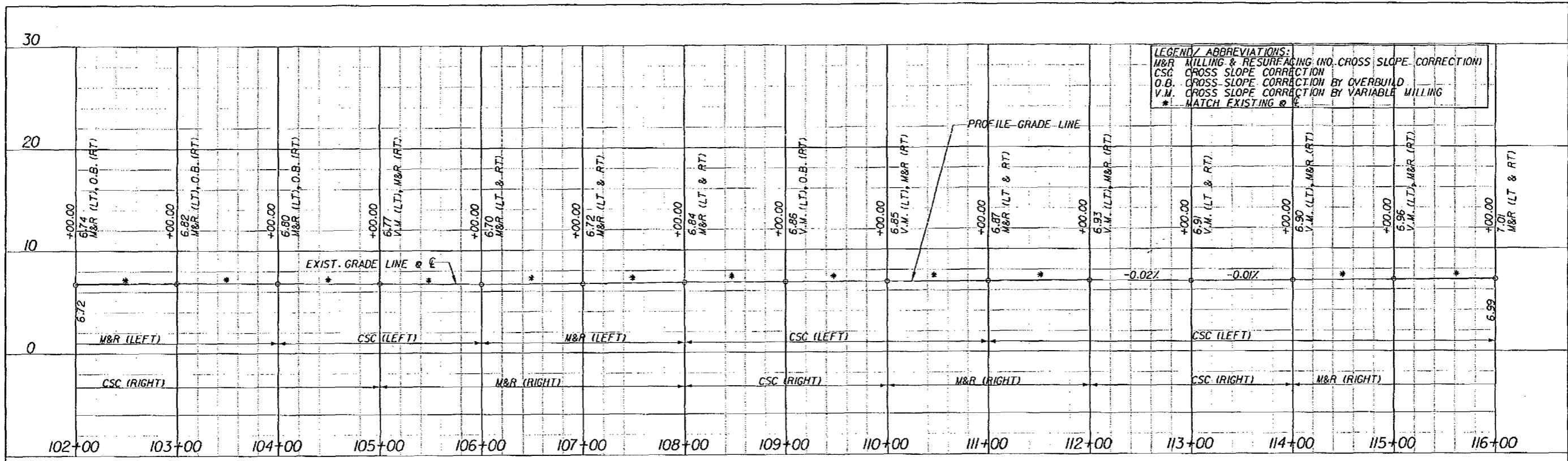
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

SPECIAL PROFILE

SHEET NO.
26

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6015-23.003, F.A.C.



SCALE: 1"=100' HORIZ.
1"=10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

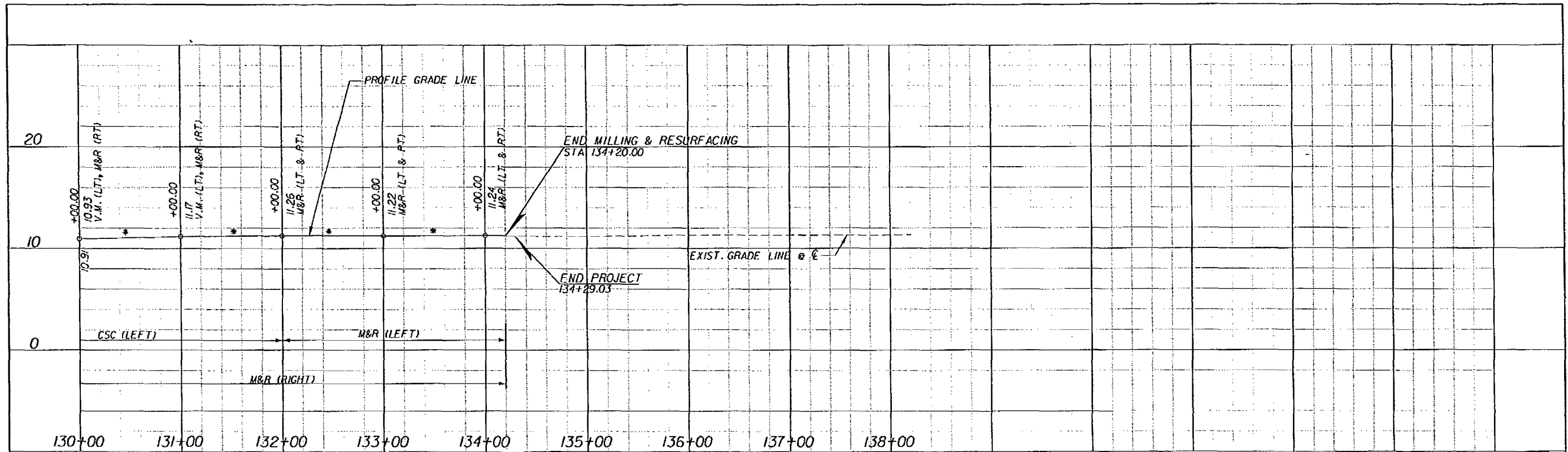
BOLTON, PEREZ & ASSOCIATES
7205 CORPORATE CENTER DRIVE, SUITE 201
MIAMI, FLORIDA 33126
CERTIFICATE OF AUTHORIZATION 7904
P.E. LICENSE NUMBER 43956
FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	405582-8-52-01

SPECIAL PROFILE

SHEET NO.
27

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.



LEGEND/ ABBREVIATIONS:
 M&R - MILLING & RESURFACING (NO CROSS SLOPE CORRECTION)
 CSC - CROSS SLOPE CORRECTION
 O.B. - CROSS SLOPE CORRECTION BY OVERBUILD
 V.M. - CROSS SLOPE CORRECTION BY VARIABLE MILLING
 * - MATCH EXISTING @

SCALE: 1"=100' HORIZ.
 1"=10' VERT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

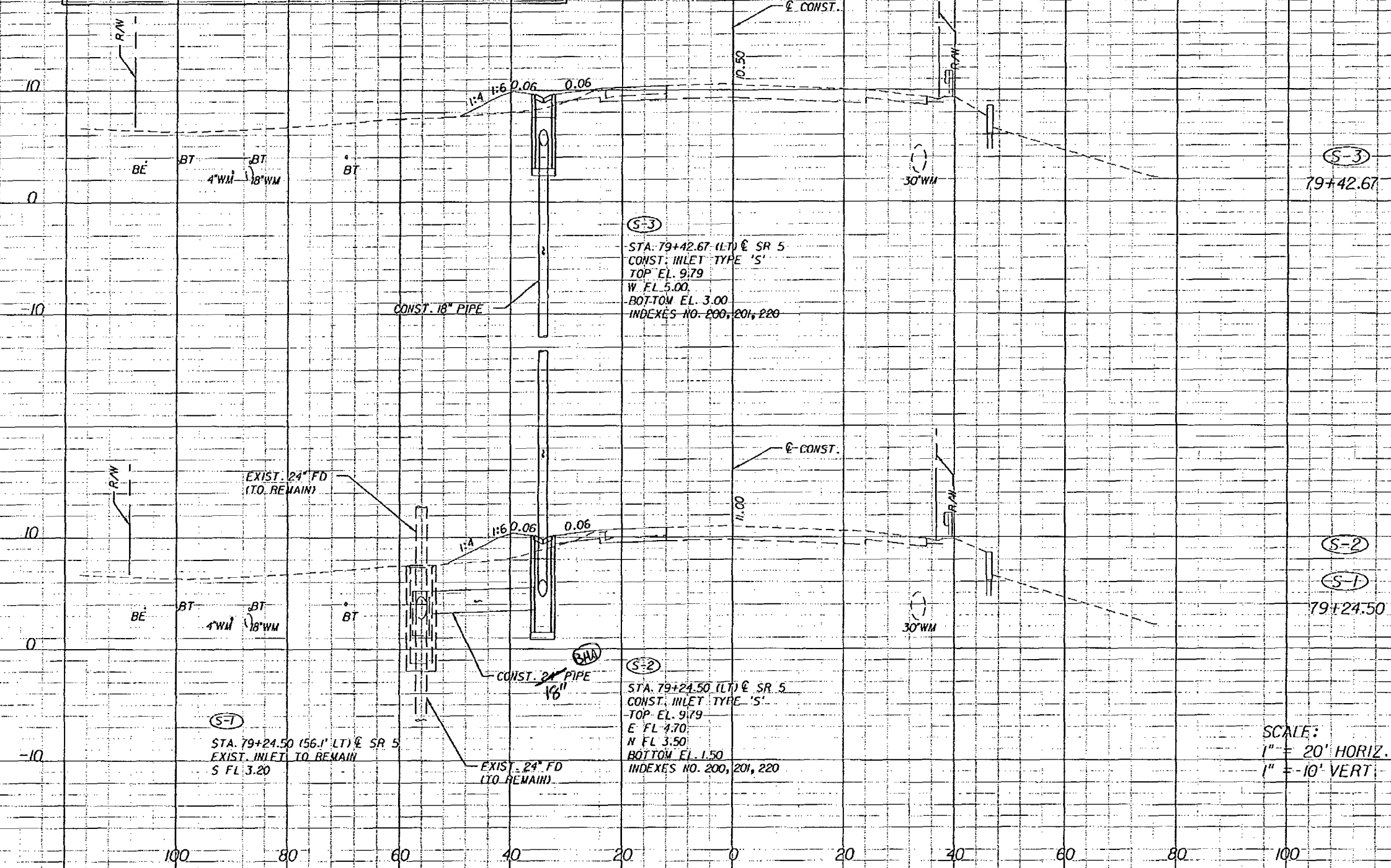
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

SPECIAL PROFILE
 SHEET NO. 28

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.

NOTES:
 (1) ALL OF THE DRAINAGE STRUCTURES HAVE OPTIONAL CULVERT MATERIALS. WHEN OPTIONAL MATERIALS ARE ALLOWED, ONE OF THE OPTIONAL MATERIALS HAS BEEN USED AS THE BASIS OF THE PAY QUANTITIES. THE MATERIAL SELECTED AS THE BASIS OF PAY QUANTITIES IS IDENTIFIED ON THE TABULATION OF STORM SEWER OPTIONAL MATERIALS SHEET. ALL OPTIONS ARE DESCRIBED AND DESIGN AND INSTALLATION INFORMATION FOR EACH OPTION IS PROVIDED ON THIS SHEET.
 (2) ALL PROPOSED GRATES SHALL BE TYPE 'G', HOT DIPPED GALVANIZED.



SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT

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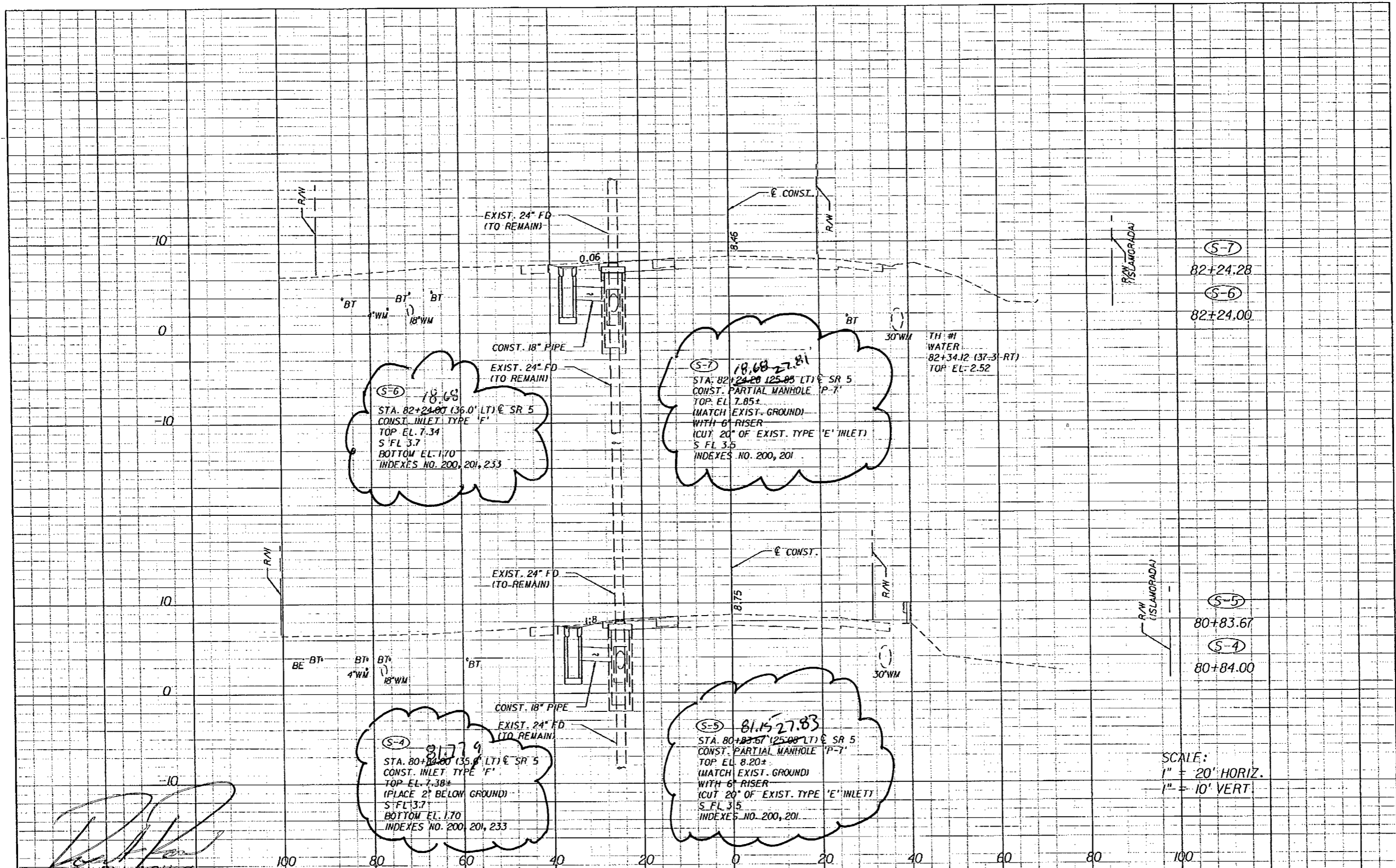
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Alvarez Engineers, Inc.
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 1538
 RAUOH TESSALE, PE No. 56070
 0560 N.W. 27th Street, Suite 02
 West, Ft. Lauderdale, FL 33312
 Tel. (305) 640-1245 Fax (305) 640-1316
 E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	405582-8-52-01

DRAINAGE STRUCTURES

SHEET NO.
29



(S-6) 18.63
 STA. 82+24.00 (36.0' LT) @ SR 5
 CONST. INLET TYPE 'F'
 TOP EL. 7.34
 S FL 3.7
 BOTTOM EL. 1.70
 INDEXES NO. 200, 201, 233

(S-7) 18.68 27.81
 STA. 82+24.28 (25.08' LT) @ SR 5
 CONST. PARTIAL MANHOLE 'P-7'
 TOP EL. 7.85±
 (MATCH EXIST. GROUND)
 WITH 6" RISER
 CUT 20" OF EXIST. TYPE 'E' INLET
 S FL 3.5
 INDEXES NO. 200, 201

(S-4) 81.74
 STA. 80+84.00 (35.0' LT) @ SR 5
 CONST. INLET TYPE 'F'
 TOP EL. 7.38±
 (PLACE 2" BELOW GROUND)
 S FL 3.7
 BOTTOM EL. 1.70
 INDEXES NO. 200, 201, 233

(S-5) 81.15 27.83
 STA. 80+83.67 (25.08' LT) @ SR 5
 CONST. PARTIAL MANHOLE 'P-7'
 TOP EL. 8.20±
 (MATCH EXIST. GROUND)
 WITH 6" RISER
 CUT 20" OF EXIST. TYPE 'E' INLET
 S FL 3.5
 INDEXES NO. 200, 201

SCALE:
 1" = 20' HORIZ.
 1" = 10' VERT.

[Handwritten Signature]
 8/6/69

DATE		BY	DESCRIPTION	DATE		BY	DESCRIPTION

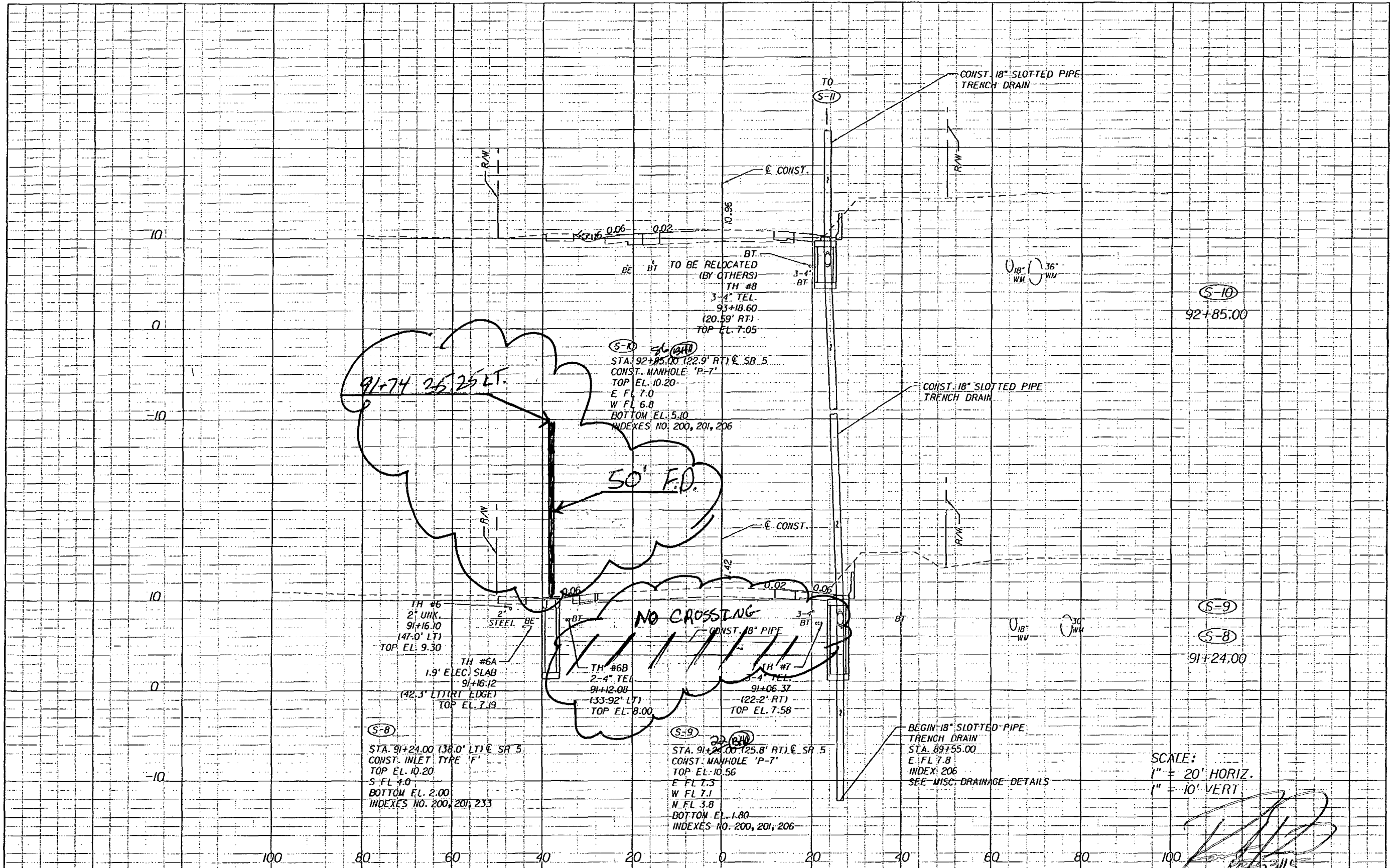
Alvarez Engineers, Inc.
 FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
 RAMON TESORO, P.E. No. 56070
 4550 N.W. 21st Street, Suite 102
 Miami, Florida 33122
 Tel. (305) 640-1345 Fax (305) 640-1346
 E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	405582-8-52-01

DRAINAGE STRUCTURES

SHEET NO.
30

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Alvarez Engineers, Inc.
 FLORIDA CERTIFICATE OF AUTHORIZATION No. 1538
 RANDY TESDALE, PE No. 56070
 10560 N.W. 27th Street, Suite 102
 Miami, Florida 33192
 Tel: (305) 640-1345 Fax: (305) 640-1346
 E-mail: Alvarez@AlvarezEng.com

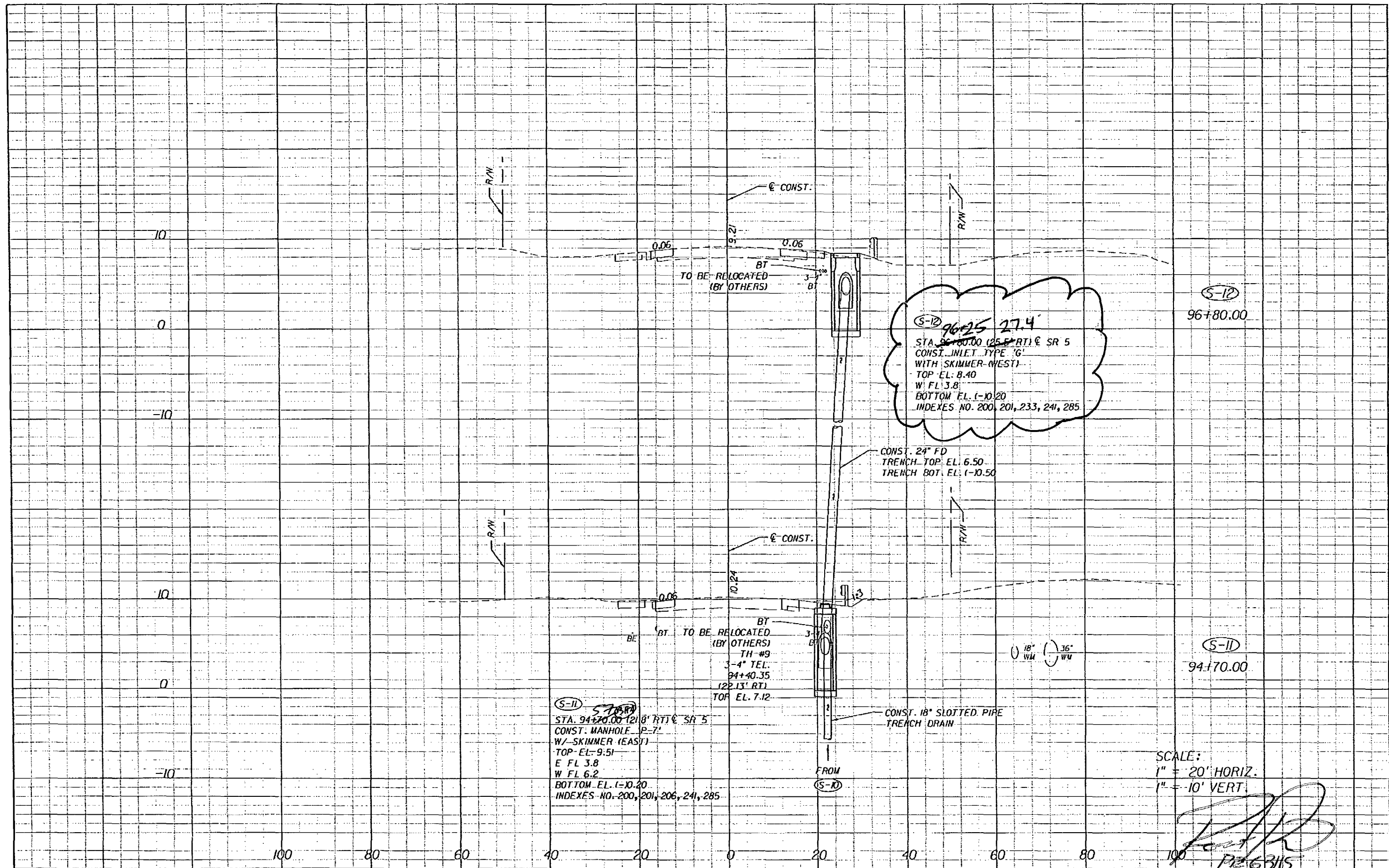
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	405582-8-52-01

DRAINAGE STRUCTURES

SHEET NO. 31

DATE: 6/8/09

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

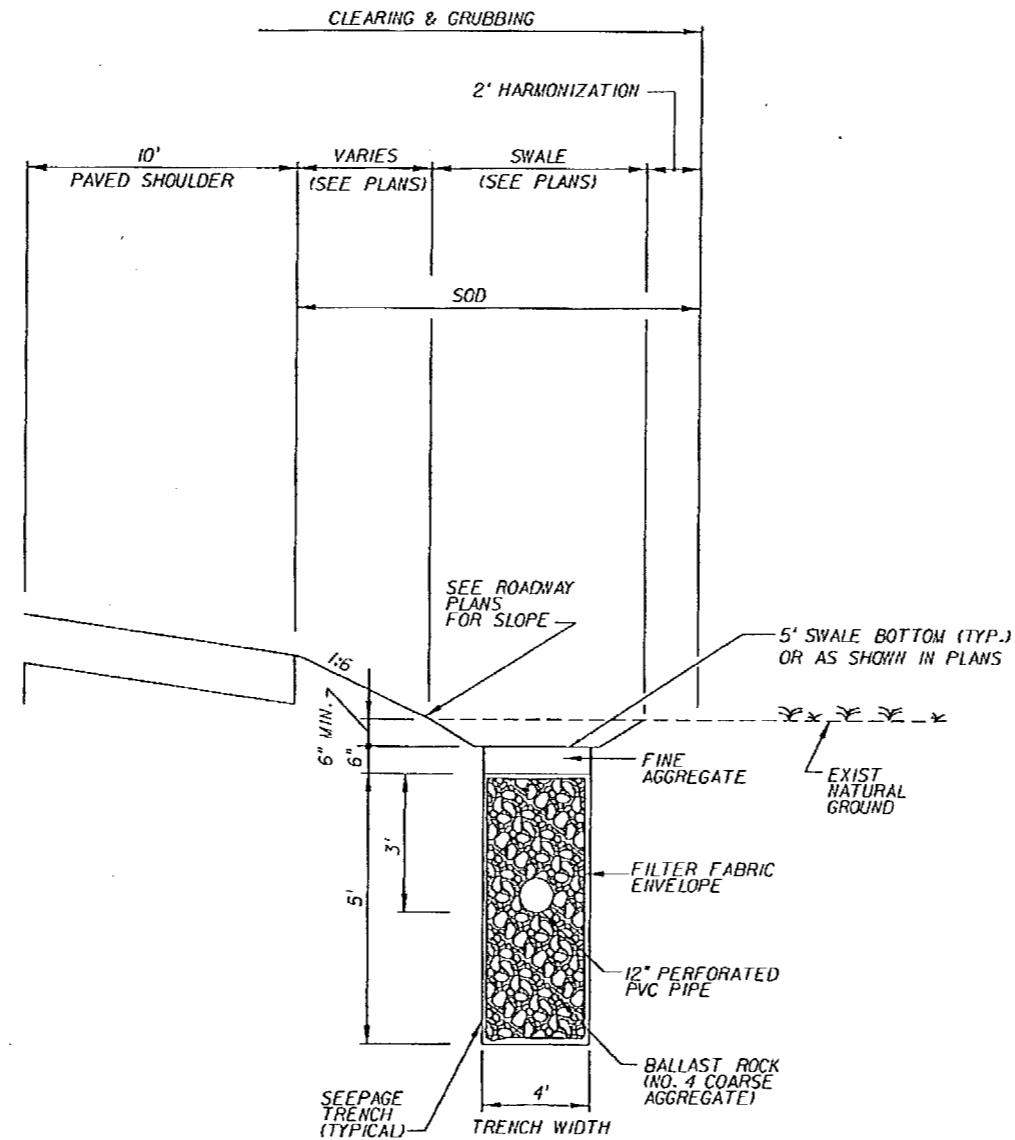
Alvarez Engineers, Inc.
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 7538
 RAMON TESONE, P.E. No. 56070
 0560 N.W. 27th Street, Suite 102
 Miami, Florida 33127
 Tel. (305) 640-1345 Fax (305) 640-1346
 E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	405582-8-52-01

DRAINAGE STRUCTURES

8/6/09
 PZ 6315

SHEET NO.
32



STATION	
FROM	TO
85+96	86+62
87+23	87+94
108+36	109+11
111+21	111+44
111+99	112+76
116+00	116+74
128+01, 1	129+77
128+01, 2	129+43
128+01, 3	129+77

SWALE AND SEEPAGE TRENCH DETAIL

SEE PLANS FOR SWALE SIDE SLOPES

NOTES:

1. CAP EACH END OF PVC PIPE
2. BALLAST ROCK AND FILTER FABRIC SHALL ONLY BE USED FOR THE SEEPAGE TRENCH.
3. PAY ITEM 440-1-60, UNDERDRAINS, SPECIAL.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

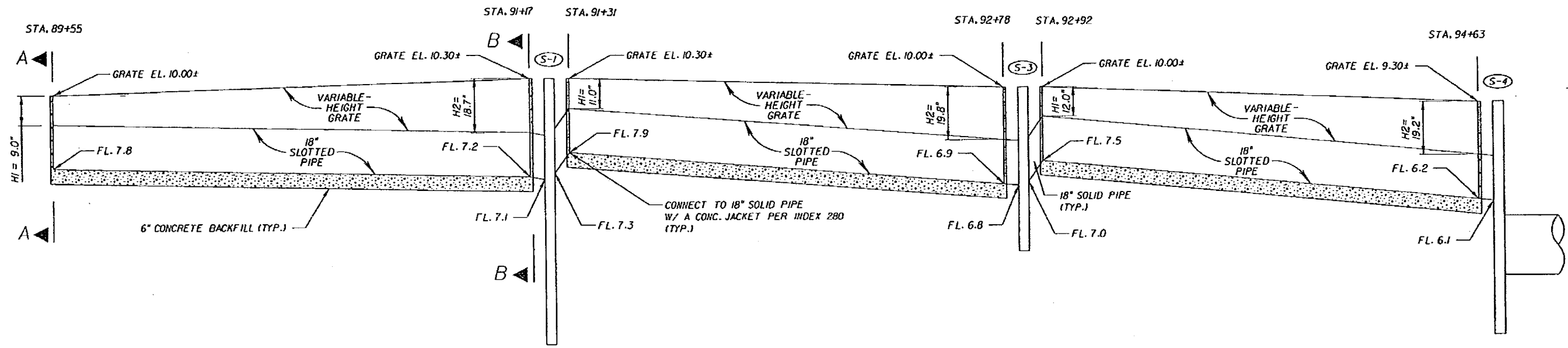
Alvarez Engineers, Inc.
 FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
 RAMON TESORE, PE No. 56070
 8560 N.W. 27th Street, Suite 402
 Miami, Florida 33102
 Tel. 13051 640-1345 Fax 13051 640-1346
 E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

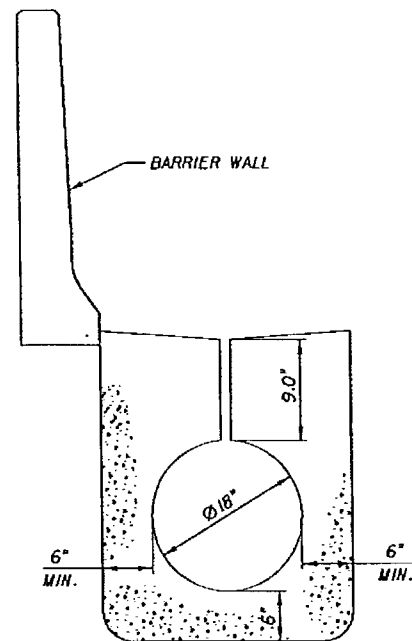
**MISCELLANEOUS
DRAINAGE DETAILS**

SHEET NO.
33

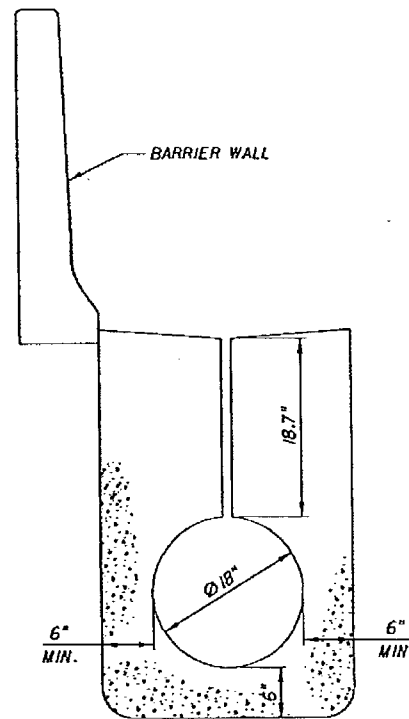
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PROFILE VIEW
N.T.S.



SECTION A-A
N.T.S.
FOR ADDITIONAL DETAILS
SEE INDEX 206



SECTION B-B
N.T.S.
FOR ADDITIONAL DETAILS
SEE INDEX 206

#	FROM STA.	TO STA.	LENGTH	SIZE	UPSTREAM			DOWNSTREAM			SLOPE
					GRATE	HI	FL	GRATE	H2	FL	
1	89+55	91+17	162'	18"	10.00'	9.0"	7.8'	10.30'	18.7"	7.2'	0.37%
2	91+31	92+78	147'	18"	10.30'	11.0"	7.9'	10.00'	19.8"	6.9'	0.68%
3	92+92	94+63	171'	18"	10.00'	12.0"	7.5'	9.30'	19.2"	6.2'	0.76%

SLOTTED PIPE TRENCH DRAIN DETAIL
PAY ITEM 436-1-2.
NOTES: (1) PAY ITEM INCLUDES CONCRETE JACKETS AND 18" PIPE CONNECTIONS.
(2) CONTRACTOR SHALL UTILIZE A GRATE FOR H-20 LOADING THAT IS COMPATIBLE WITH A.D.A. AND IS CORROSION-PROOF (GALVANIZED).

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

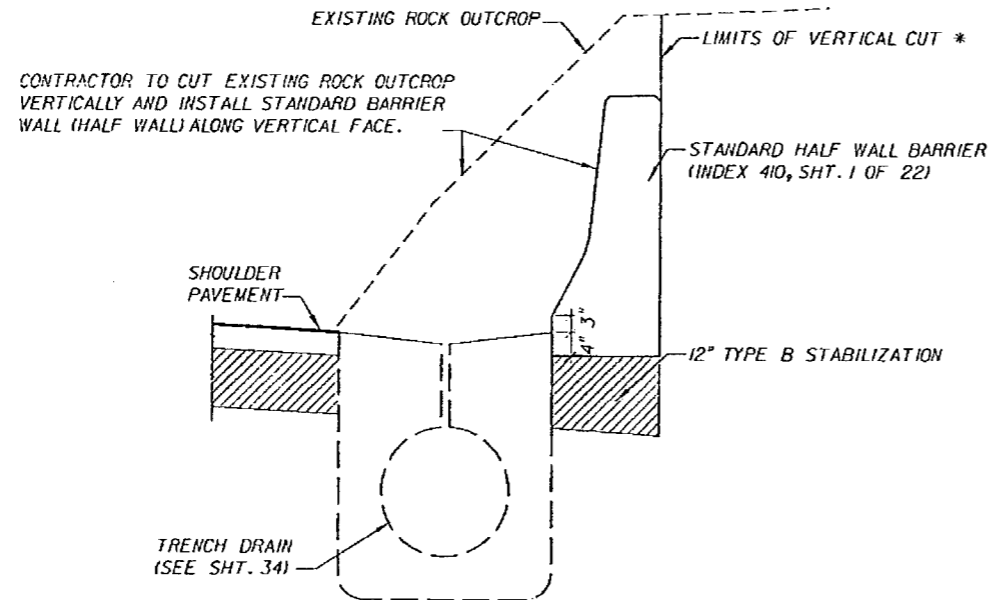
Alvarez Engineers, Inc.
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 7538
RAMON TESONE, P.E. No. 56070
0560 N.W. 27th Street, Suite 102
Miami, Florida 33182
Tel. (305) 640-1345 Fax (305) 640-1346
E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
S.R. 5 MONROE 405582-8-52-01

MISCELLANEOUS
DRAINAGE DETAILS

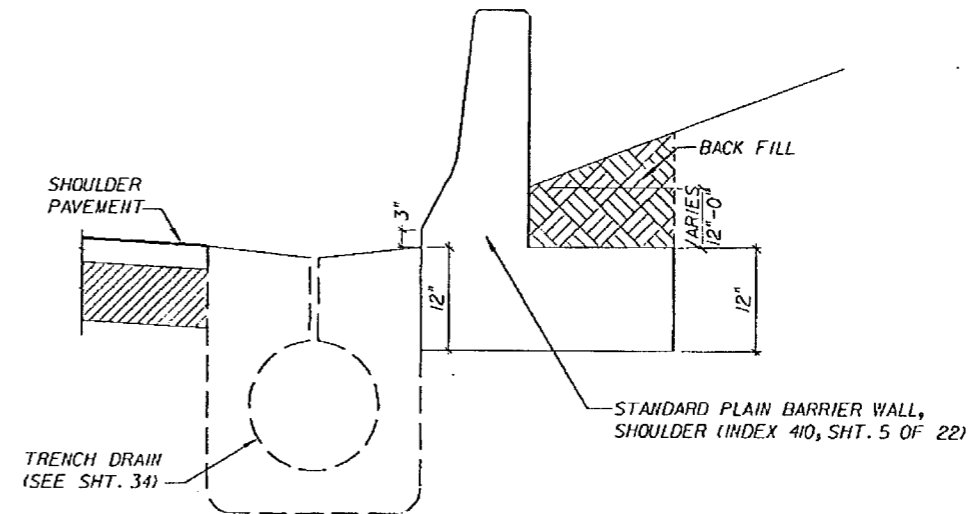
SHEET NO.
34

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STANDARD HALF BARRIER WALL SECTION
 STA. 89+50 TO 93+75
 (PAY ITEM 521-1)

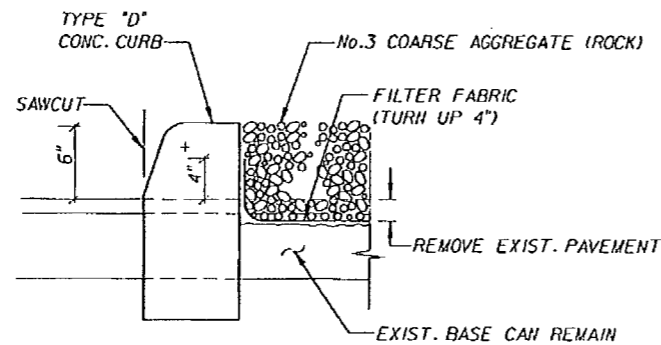
* CONTRACTOR TO NOTIFY THE ENGINEER SHOULD FIELD CONDITIONS NOT ALLOW ROCK OUTCROP TO REMAIN VERTICAL.



STANDARD PLAIN CONCRETE BARRIER WALL SHOULDER
 STA. 93+75 TO 94+50
 (PAY ITEM 521-72-6)

BARRIER WALL DETAILS
 N.T.S.

NOTE: SEE REPORT OF CORE BORINGS FOR SOIL INFORMATION IN VICINITY OF BARRIER WALL



VENETIAN BLVD MEDIAN DETAIL
 N.T.S.

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 37336 JOAQUIN PEREZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MISCELLANEOUS DETAILS	SHEET NO. 35
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR-5	MONROE	405582-8-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY: 11/13/2000 THRU 11/14/2000
SURVEY MADE BY: B. SWIDARSKI
SUBMITTED BY: JUAN F. CASTELLANOS, P.E.

FINANCIAL PROJECT ID : 405582-8-52-01

DISTRICT: 6
ROAD NO.: SR-5
COUNTY: MONROE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 79+00 SURVEY ENDS STA. : 110+00

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT	SIEVE ANALYSIS RESULTS PERCENT PASS					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC		NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT		PLASTIC INDEX	AASHTO GROUP	NO. OF TESTS	RESISTIVITY (ohm cm)	CHLORIDE (ppm)	SULFATES (ppm)
1					56	35	29		18			A-1-b	WHITE TO PALE BROWN SANDY LIMESTONE (FILL)					
2					60	41	34		22			A-1-b	WHITE TO GRAY TO LIGHT TAN SILTY SANDY LIMESTONE					
3	1	38.7			80	49	38		21			A-4/A-8	LIGHT CALCAREOUS SANDY SILT (MARL) WITH ORGANIC SILT (MUCK)					
4												A-8	TOP SOIL (ORGANIC)					

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

- W - WATER TABLE ENCOUNTERED
 GNE - GROUND WATER NOT ENCOUNTERED.

NOTES:

- 1) THE MATERIAL FROM STRATA NOS. 1 AND 2 APPEARS SATISFACTORY FOR USE IN EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD INDEX NO. 505.
 - 2) THE MATERIAL FROM STRATA NO. 4 IS MUCK/A-8 MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD INDEX NO. 500.
- MOST OF THE INVESTIGATION DONE ALONG THE OLD US-1 ALIGNMENT INDICATES THAT THESE MATERIALS ARE UNDERLYING SEVERAL FEET OF FILL WHICH HAS BEEN SURCHARGING THEM FOR A PERIOD OF MANY YEARS. DUE TO THE DEPTH OF THE A-4/A-8 MATERIAL IN STRATUM 3, REMOVAL OF THESE MATERIALS WOULD NOT BE ECONOMICAL AND IS NOT REQUIRED.
- 4) STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.
 - 5) THE WATER TABLE WAS FOUND TO RANGE FROM 4.8 TO 11.6 FEET BELOW EXISTING GROUND SURFACE AT THE TIME OF SURVEY.

NOTE: THIS SHEET WAS TAKEN FROM THE PLANS FOR FPID: 405646-2-52-01.

REVISIONS						F.D.O.T District 4 & 6 Materials Office Juan F. Castellanos, P.E. 46781 14200 West State Road 84 Dade, Florida 33325	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOILS SURVEY	SHEET NO. 36
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						5	MONROE	405582-8-52-01			

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

FINANCIAL PROJECT ID : 405582-8-52-01

DATE OF SURVEY: JULY 2007
SURVEY MADE BY: PSI
SUBMITTED BY: HUGO E. SOTO, P.E.

DISTRICT: VI
ROAD NO.: 5
COUNTY: MONROE

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 110+00 SURVEY ENDS STA. : 135+00

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT	SIEVE ANALYSIS RESULTS PERCENT PASS					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% ORGANIC		NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT		PLASTIC INDEX	AASHTO GROUP	NO. OF TESTS	RESISTIVITY (ohm cm)	CHLORIDE (ppm)	SULFATES (ppm)	pH
1.	6		4-9	6	31-62	23-40	20-31	12-22	6-15				A-1-a/A-1-b	(FILL) LIGHT BROWN LIMESTONE WITH FINE SAND	1	760	8.5	210	8.3
1A.	2		8-12	2	50-75	38-52	34-43	30-36	26-29				A-2-4	(FILL) BROWN TO GRAY SILTY FINE SAND WITH LIMESTONE					
2.														LIGHT BROWN TO GRAY LIMESTONE WITH FINE SAND	1	390,000	50.0	290	8.2
3.	2		31-35	2					73-87				A-4	GRAY SANDY SILT					
4.													A-8	(TOPSOIL) DARK BROWN ORGANIC FINE SAND WITH ROOTS					
4A														ASPHALTIC CONCRETE					

EMBANKMENT AND SUBGRADE MATERIAL


STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

∇ - WATER TABLE ENCOUNTERED.

N.E. - GROUND WATER NOT ENCOUNTERED.

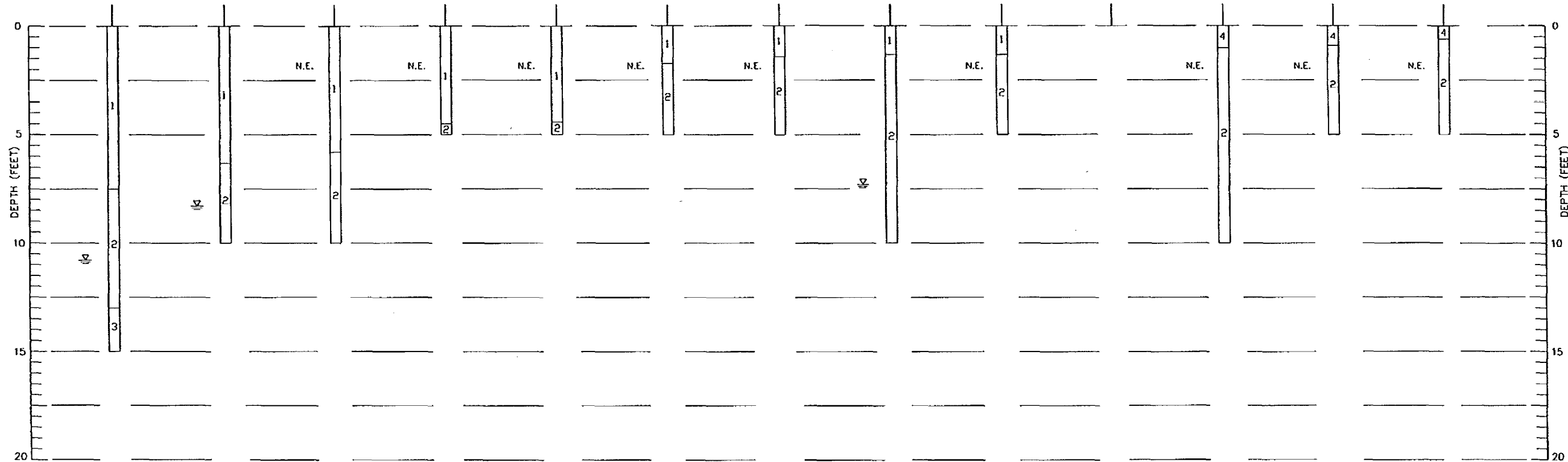
NOTES:

1. THE MATERIAL FROM STRATA NUMBERS 1(A-1-a/A-1-b) IS SELECT (S). IT APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.
2. THE MATERIAL FROM STRATUM NUMBER 1A (A-2-4) IS SELECT (S). IT APPEARS TO BE SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. HOWEVER, CERTAIN TYPES OF A-2-4 MATERIAL ARE LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. THEY SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT TIME OF CONSTRUCTION. THEY MAY BE USED IN THE SUBGRADE PORTION OF THE ROADBED WHEN APPROVED BY THE DISTRICT MATERIALS ENGINEER.
3. THE MATERIAL FROM STRATUM NUMBER 2 IS THE NATURAL LIMESTONE FORMATION. THIS MATERIAL TYPICALLY OFFERS A HIGH RESISTANCE TO EXCAVATION. SPECIAL EQUIPMENT AND BREAKING TOOLS MAY BE REQUIRED TO EXCAVATE IT. IT IS ALSO DIFFICULT TO DEWATER DUE TO ITS HIGH POROSITY AND PERMEABILITY.
4. THE MATERIAL FROM STRATA 3 (A-4) IS PLASTIC MATERIALS AND SHALL BE REMOVED IN ACCORDANCE WITH INDEX 500, IF ENCOUNTERED WITHIN 2 FEET BELOW THE BOTTOM OF THE BASE. THIS MATERIAL MAY BE PLACED ABOVE THE EXISTING WATER LEVELS (AT THE TIME OF CONSTRUCTION) TO WITHIN 4 FEET OF THE PROPOSED BASE. THIS MATERIAL SHOULD ALSO BE PLACED UNIFORMLY IN THE LOWER PORTION OF THE EMBANKMENT FOR SOME DISTANCE ALONG THE PROJECT RATHER THAN FULL DEPTH FOR SHORT DISTANCES. THE MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. THIS MATERIAL WAS ONLY ENCOUNTERED IN BORINGS PERFORMED AT STATIONS 121+55 (S.R. 5 SURVEY BASELINE).
5. THE MATERIAL FROM STRATUM NUMBER 4 IS TOPSOIL (A-8) AND SHOULD BE REMOVED AS PART OF THE CLEARING AND GRUBBING OPERATIONS IN ACCORDANCE WITH STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 110.
6. THE MATERIAL FROM STRATUM NUMBER 4A IS ASPHALTIC CONCRETE. THIS MATERIAL SHOULD BE REMOVED OR MILLED AS REQUIRED BY THE ROADWAY DESIGN.

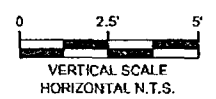
REVISIONS						 ENVIRONMENTAL GEOTECHNICAL CONSTRUCTION 7930 N.W. 64TH STREET, MIAMI, FL 33166 PHONE: (305) 471-7725 - FAX: (305) 593-7935 CERTIFICATE OF AUTHORIZATION No. 3624 ENGINEER OR RECORD: HUGO E. SOTO, P.E. No. 36440	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOILS SURVEY	SHEET NO. 37
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						5	MONROE	405582-8-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

BORING No.:	A-14	A-15	A-16	A-17	A-18	A-19	A-20	A-21	A-22	A-23	A-24	A-25	A-26
STATION:	79+00	80+00	81+00	82+00	83+00	84+00	85+00	86+00	87+00	BORING NOT PERFORMED	89+00	90+00	91+00
OFFSET:	76'RT.	70'RT.	65'RT.	59'RT.	51'RT.	51'RT.	49'RT.	43'RT.	42'RT.		18'RT.	13'RT.	10'RT.
DATE:	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/13/00	11/14/00	11/14/00		11/14/00	11/14/00	11/14/00



S.R. 5 (US-1)



LEGEND

- WHITE TO PALE BROWN SANDY LIMESTONE (FILL)
- WHITE TO GRAY TO LIGHT TAN SILTY SANDY LIMESTONE
- LIGHT CALCAREOUS SANDY SILT (MARL) WITH ORGANIC (MUCK)
- TOPSOIL (ORGANIC)

NOTES

☩ GROUNDWATER LEVEL ON THE DATE OF DRILLING

N.E. WATER TABLE NOT ENCOUNTERED

STATIONS AND OFFSETS ARE REFERENCED TO THE PROJECT BASELINE

THE MATERIAL IN STRATUM NUMBER 2 CORRESPONDS TO A LIMESTONE FORMATION THAT TYPICALLY OFFERS A HIGH RESISTANCE TO EXCAVATION. SPECIAL EQUIPMENT AND BREAKING TOOLS MAY BE REQUIRED TO EXCAVATE IT. THIS MATERIAL IS ALSO DIFFICULT TO DEWATER DUE TO ITS HIGH POROSITY AND PERMEABILITY.

GRANULAR MATERIALS-RELATIVE DENSITY	AUTOMATIC HAMMER SPT-N (BLOWS/12 in)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
VERY DENSE	24-40
GREATER THAN 40	
SILTS AND CLAYS CONSISTENCY	AUTOMATIC HAMMER SPT-N (BLOWS/12 in)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

THESE DRAWINGS WERE PREPARED UNDER DISTRICT/AREAWIDE CONTRACT FM No. 250730-1-32-02

DISCLAIMER:

THE SUB-SURFACE PROFILES SHOWN ON THIS SHEET WERE CREATED BASED ON THE SUB-SOIL STRATIFICATION AND WATER TABLE DEPTHS PROVIDED TO PSI BY FOOT.

PROFESSIONAL ENGINEER'S DIRECT SUPERVISION AND CONTROL USING THE INFORMATION PROVIDED BY FDOT.

THE INFORMATION CONTAINED IN THE BORING PROFILES IS NOT A RESPONSIBILITY OF PROFESSIONAL SERVICE INDUSTRIES, INC.

THE SHEETS WERE TAKEN FROM PLANS FOR FPID: 405646-2-52-01.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

FDOT District 4 & 6 Materials Office
 Juan F. Castellanos, P.E. No. 46781
 14200 West State Road 84
 Davie, Florida 33325

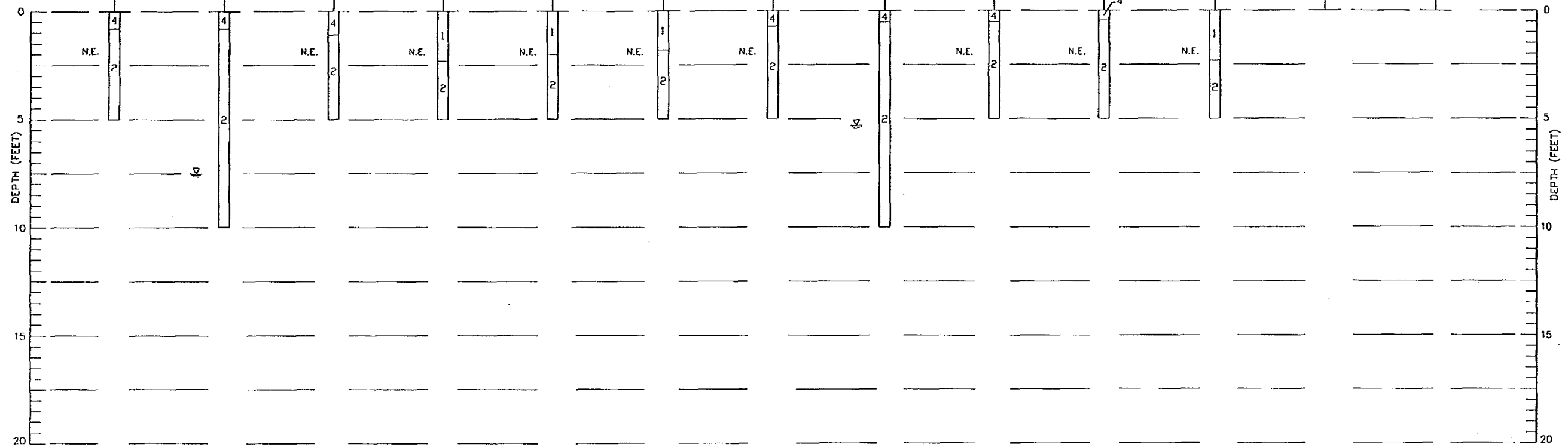
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 5	MONROE	405582-8-52-01

SOIL PROFILES

SHEET NO.
38

NOTE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G5-23.003, F.A.C.

BORING No.:	A-27	A-28	A-29	A-30	A-31	A-32	A-33	A-34	A-35	A-36	A-37	A-38	A-39
STATION:	92+00	93+00	94+00	95+00	96+00	97+00	98+00	99+00	100+00	101+00	102+00	BORING NOT PERFORMED	BORING NOT PERFORMED
OFFSET:	9'RT.	10'RT.	10'RT.	10'RT.	11'RT.	8'RT.	10'RT.	12'RT.	13'RT.	15'RT.	15'RT.		
DATE:	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00		



S.R. 5 (US-1)



LEGEND

1. WHITE TO PALE BROWN SANDY LIMESTONE (FILL)
2. WHITE TO GRAY TO LIGHT TAN SILTY SANDY LIMESTONE
3. LIGHT CALCAREOUS SANDY SILT (MARL) WITH ORGANIC (MUCK)
4. TOPSOIL (ORGANIC)

NOTES

☼ GROUNDWATER LEVEL ON THE DATE OF DRILLING
 N.E. WATER TABLE NOT ENCOUNTERED
 STATIONS AND OFFSETS ARE REFERENCED TO THE PROJECT BASELINE

THE MATERIAL IN STRATUM NUMBER 2 CORRESPONDS TO A LIMESTONE FORMATION THAT TYPICALLY OFFERS A HIGH RESISTANCE TO EXCAVATION. SPECIAL EQUIPMENT AND BREAKING TOOLS MAY BE REQUIRED TO EXCAVATE IT. THIS MATERIAL IS ALSO DIFFICULT TO DEWATER DUE TO ITS HIGH POROSITY AND PERMEABILITY.

GRAULULAR MATERIALS- RELATIVE DENSITY	AUTOMATIC HAMMER SPT-N (BLOWS/12 in)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	AUTOMATIC HAMMER SPT-N (BLOWS/12 in)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-8
STIFF	8-12
VERY STIFF	12-24
HARD	GREATER THAN 24

THESE DRAWINGS WERE PREPARED UNDER DISTRICT/AREAWIDE CONTRACT FM No. 250730-1-32-02

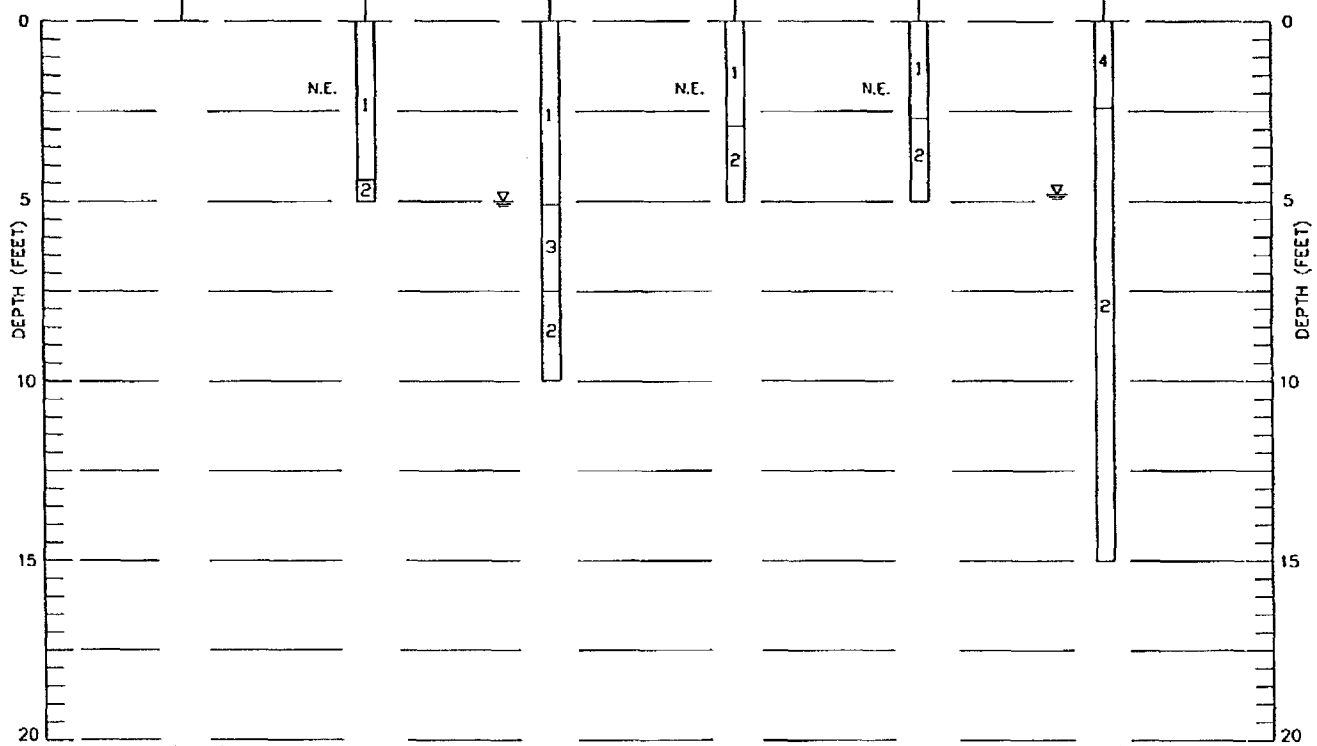
DISCLAIMER:
 THE SUB-SURFACE PROFILES SHOWN ON THIS SHEET WERE CREATED BASED ON THE SUB-SOIL STRATIFICATION AND WATER TABLE DEPTHS PROVIDED TO PSI BY FOOT.
 PROFESSIONAL ENGINEER'S DIRECT SUPERVISION AND CONTROL USING THE INFORMATION PROVIDED BY FDOT.
 THE INFORMATION CONTAINED IN THE BORING PROFILES IS NOT A RESPONSIBILITY OF PROFESSIONAL SERVICE INDUSTRIES, INC.

THE SHEETS WERE TAKEN FROM PLANS FOR FPID: 405616-2-52-01.

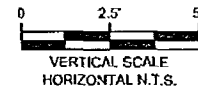
REVISIONS						FDOT District 4 & 6 Materials Office Juan F. Castellanos, P.E. No. 46781 14200 West State Road 84 Davie, Florida 33325	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SOIL PROFILES	SHEET NO. 39
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							S.R. 5	MONROE	405582-8-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66S-23.003, F.A.C.

BORING No.:	A-40	A-41	A-42	A-43	A-44	A-45
STATION:	BORING	106+00	107+00	108+00	109+00	110+00
OFFSET:	NOT	25'RT.	30'RT.	28'RT.	21'RT.	13'RT.
DATE:	PERFORMED	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00



S.R. 5 (US-1)



LEGEND

- WHITE TO PALE BROWN SANDY LIMESTONE (FILL)
- WHITE TO GRAY TO LIGHT TAN SILTY SANDY LIMESTONE
- LIGHT CALCAREOUS SANDY SILT (MARL) WITH ORGANIC (MUCK)
- TOPSOIL (ORGANIC)

NOTES

↘ GROUNDWATER LEVEL ON THE DATE OF DRILLING
 N.E. WATER TABLE NOT ENCOUNTERED
 STATIONS AND OFFSETS ARE REFERENCED TO THE PROJECT BASELINE

THE MATERIAL IN STRATUM NUMBER 2 CORRESPONDS TO A LIMESTONE FORMATION THAT TYPICALLY OFFERS A HIGH RESISTANCE TO EXCAVATION. SPECIAL EQUIPMENT AND BREAKING TOOLS MAY BE REQUIRED TO EXCAVATE IT. THIS MATERIAL IS ALSO DIFFICULT TO DEWATER DUE TO ITS HIGH POROSITY AND PERMEABILITY.

GRANULAR MATERIALS- RELATIVE DENSITY	AUTOMATIC HAMMER SPT-N (BLOWS/12 in)
VERY LOOSE	LESS THAN 3
LOOSE	3-6
MEDIUM	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	AUTOMATIC HAMMER SPT-11 (BLOWS/12 in)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

THESE DRAWINGS WERE PREPARED UNDER DISTRICT/AREA WIDE CONTRACT FM No. 250730-1-32-02

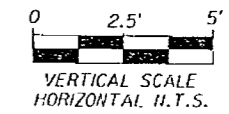
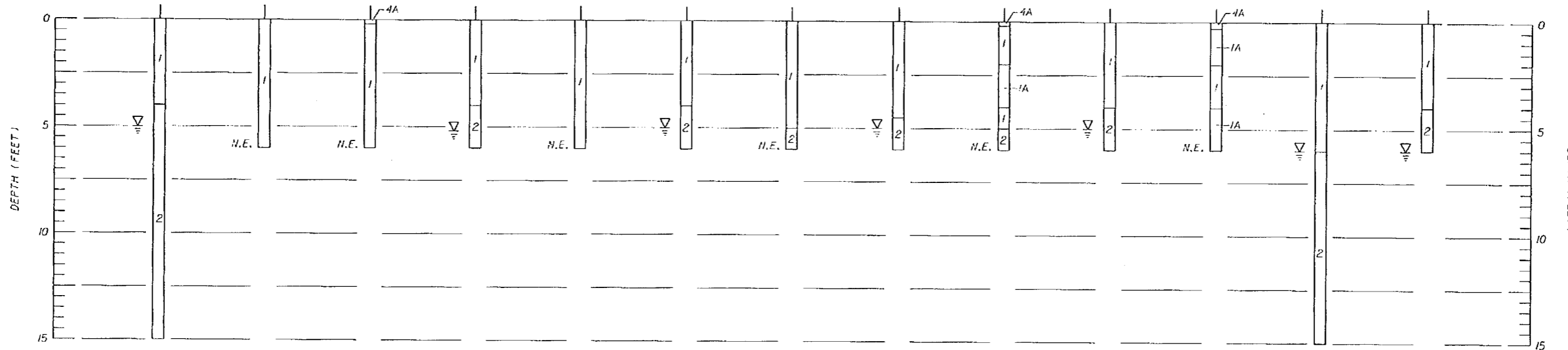
DISCLAIMER:
 THE SUB-SURFACE PROFILES SHOWN ON THIS SHEET WERE CREATED BASED ON THE SUB-SOIL STRATIFICATION AND WATER TABLE DEPTHS PROVIDED TO PSI BY FDOT.
 PROFESSIONAL ENGINEER'S DIRECT SUPERVISION AND CONTROL USING THE INFORMATION PROVIDED BY FDOT.
 THE INFORMATION CONTAINED IN THE BORING PROFILES IS NOT A RESPONSIBILITY OF PROFESSIONAL SERVICE INDUSTRIES, INC.

THE SHEETS WERE TAKEN FROM PLANS FOR FPID: 405646-2-52-01.

REVISIONS						FDOT District 4 & 6 Materials Office Juan F. Castellanos, P.E. No. 46781 14200 West State Road 84 Davie, Florida 33325	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SOIL PROFILES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		40
							S.R. 5	MONROE	405582-8-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

BORING No.	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-13	BORING No.
NORTHING	796451.6	796541.1	796544.3	796613.9	796633.6	796693.3	796725.3	796765.1	796818.9	796852	796914.9	796957.9	797004.1	NORTHING
EASTING	226834	226805.2	226856.1	226852.7	226896.4	226978.4	226933	226907.7	226973.3	226973.4	227009.9	227006.4	227064.7	EASTING
DATE	07/27/07	07/27/07	07/27/07	07/25/07	07/27/07	07/25/07	07/27/07	07/25/07	07/27/07	07/25/07	07/26/07	07/27/07	07/26/07	DATE
STATION	110+00	110+55	111+00	111+50	112+00	112+50	113+00	113+50	114+00	114+53	115+00	115+48	116+00	STATION
OFFSET	19 LT	20 RT	19 LT	19 RT	19 LT	19 RT	19 LT	19 RT	19 LT	19 RT	19 LT	19 RT	18 LT	OFFSET



LEGEND

1. (FILL) LIGHT BROWN LIMEROCK WITH FINE SAND (A-1-a/A-1-b)
- 1A. (FILL) BROWN TO GRAY SILTY FINE SAND WITH LIMEROCK (A-2-4)
2. LIGHT BROWN TO GRAY LIMESTONE WITH FINE SAND
3. GRAY SANDY SILT (A-4)
4. (TOPSOIL) DARK BROWN ORGANIC FINE SAND WITH ROOTS (A-8)
- 4A. ASPHALTIC CONCRETE

NOTES

STATIONS AND OFFSETS ARE REFERENCED TO SR-5 SURVEY BASELINE

N.E. WATER TABLE NOT ENCOUNTERED

▽ GROUNDWATER LEVEL, ON THE DATE OF DRILLING

DRILLED BY: DANIEL CORREA (PSI)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

psi ENVIRONMENTAL
GEOTECHNICAL
CONSTRUCTION

7950 N.W. 64TH STREET, MIAMI, FL 33166
PHONE: (305) 411-7725 - FAX: (305) 593-895
CERTIFICATE OF AUTHORIZATION No. 2654
ENGINEER OR RECORD: HUGO E. SOTO, P.E. No. 35440

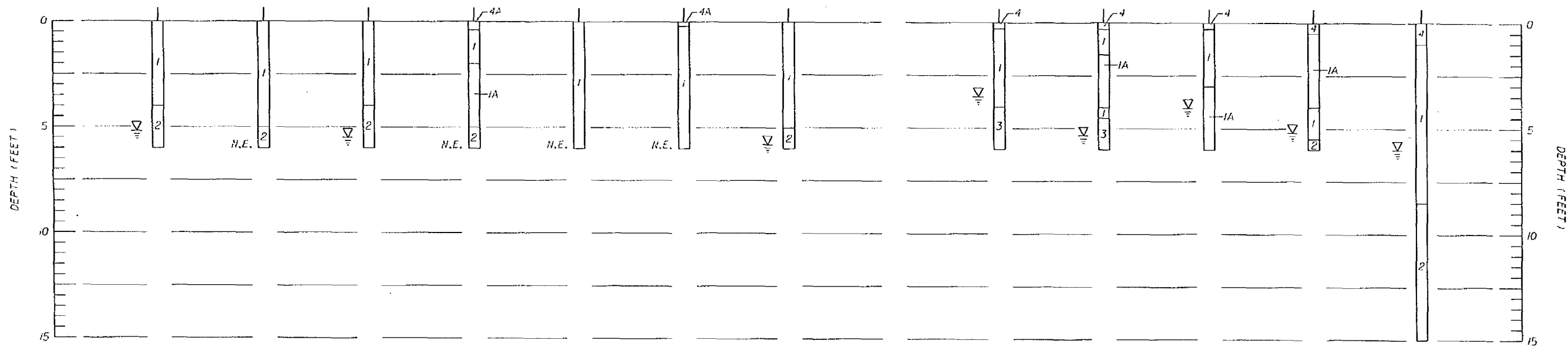
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	405582-8-52-01

SOIL PROFILES

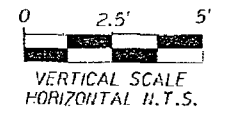
SHEET NO.
41

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60B-23.003, F.A.C.

BORING No.	B-14	B-15	B-16	B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24	B-25	B-26	BORING No.
NORTHING	797043.9	797100.1	797165.4	797196.1	797232.6	797275.4	797345.1	BORING NOT PERFORMED	797527.1	797626.4	797702.4	797828.2	797894.4	NORTHING
EASTING	227046.7	227101.3	227094.3	227130.7	227116.3	227181.5	227149.4	PERFORMED	227222.6	227259.3	227306.7	227350.8	227359.1	EASTING
DATE	07/25/07	07/26/07	07/25/07	07/26/07	07/25/07	07/26/07	07/25/07	DUE TO	07/25/07	07/25/07	07/25/07	07/25/07	07/27/07	DATE
STATION	116+53	117+00	117+50	118+00	118+50	119+00	119+60	CONFLICT WITH	121+50	122+55	123+50	124+63	125+50	STATION
OFFSET	19 RT	17 LT	19 RT	14 LT	21 RT	14 LT	20 RT	UNDERGROUND UTILITIES	39 RT	44 RT	43 RT	31 RT	31 RT	OFFSET



SR 5



LEGEND

- 1. (FILL) LIGHT BROWN LIMEROCK WITH FINE SAND (A-1-a/A-1-b)
- 1A. (FILL) BROWN TO GRAY SILTY FINE SAND WITH LIMEROCK (A-2-4)
- 2. LIGHT BROWN TO GRAY LIMESTONE WITH FINE SAND
- 3. GRAY SANDY SILT (A-4)
- 4. (TOPSOIL) DARK BROWN ORGANIC FINE SAND WITH ROOTS (A-8)
- 4A. ASPHALTIC CONCRETE

NOTES

STATIONS AND OFFSETS ARE REFERENCED TO SR-5 SURVEY BASELINE

N.E. WATER TABLE NOT ENCOUNTERED

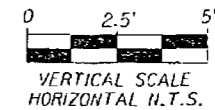
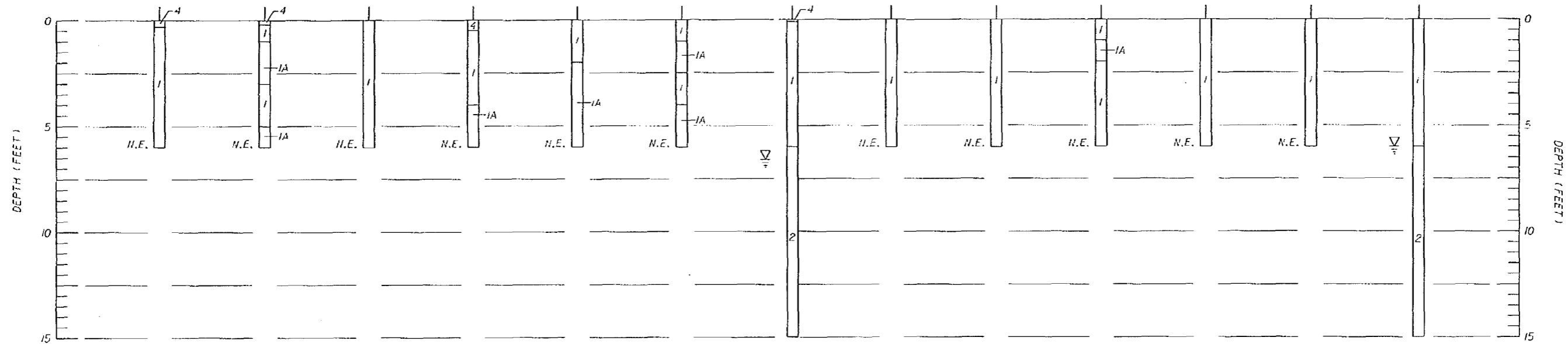
▽ GROUNDWATER LEVEL ON THE DATE OF DRILLING

DRILLED BY: DANIEL CORREA (PSI)

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 60B-23.003, F.A.C.

REVISIONS						<p>7950 N.W. 64TH STREET, MIAMI, FL 33166 PHONE: (305) 471-7125 - FAX: (305) 593-9195 CERTIFICATE OF AUTHORIZATION No. 3634 ENGINEER OR RECORD: M/GD E. SOTO, P.E. No. 35440</p>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SOIL PROFILES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		42

BORING NO.	B-27	B-28	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38	B-39	BORING NO.
NORTHING	797990.3	798063	798102.6	798149.1	798235.1	798364.1	798380.4	798433.6	798479.8	798572.6	798555.8	798621.9	798688.3	NORTHING
EASTING	22746.7	227475.1	227540.6	227497.1	227533.7	227606.8	227672.3	227628.9	227683.5	227680.2	227741.9	227782.1	227760.5	EASTING
DATE	07/25/07	07/26/07	07/26/07	07/26/07	07/26/07	07/26/07	07/27/07	07/26/07	07/26/07	07/26/07	07/26/07	07/26/07	07/27/07	DATE
STATION	126+50	127+53	128+00	128+50	129+50	130+60	131+00	131+55	132+00	132+55	133+00	134+00	134+45	STATION
OFFSET	3' RT	30 RT	17 LT	30 RT	35 RT	42 RT	17 LT	43 RT	17 LT	43 RT	17 LT	16 LT	30 RT	OFFSET



LEGEND

1. (FILL) LIGHT BROWN LIMESTONE WITH FINE SAND (A-1-a/A-1-b)
- 1A. (FILL) BROWN TO GRAY SILTY FINE SAND WITH LIMESTONE (A-2-4)
2. LIGHT BROWN TO GRAY LIMESTONE WITH FINE SAND
3. GRAY SANDY SILT (A-4)
4. (TOPSOIL) DARK BROWN ORGANIC FINE SAND WITH ROOTS (A-8)
- 4A. ASPHALTIC CONCRETE

NOTES

STATIONS AND OFFSETS ARE REFERENCED TO SR-5 SURVEY BASELINE

N.E. WATER TABLE NOT ENCOUNTERED

▽ GROUNDWATER LEVEL, ON THE DATE OF DRILLING

DRILLED BY: DANIEL CORREA (PSI)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PSI ENVIRONMENTAL
 GEOTECHNICAL
 CONSTRUCTION
 7950 N.W. 64TH STREET, MIAMI, FL 33166
 PHONE: (305) 471-7725 FAX: (305) 593-9195
 CERTIFICATE OF AUTHORIZATION No. 3634
 ENGINEER OR RECORD: HUGO E. SOTO, P.E. No. 36440

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	405582-8-52-01

SOIL PROFILES

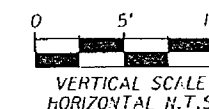
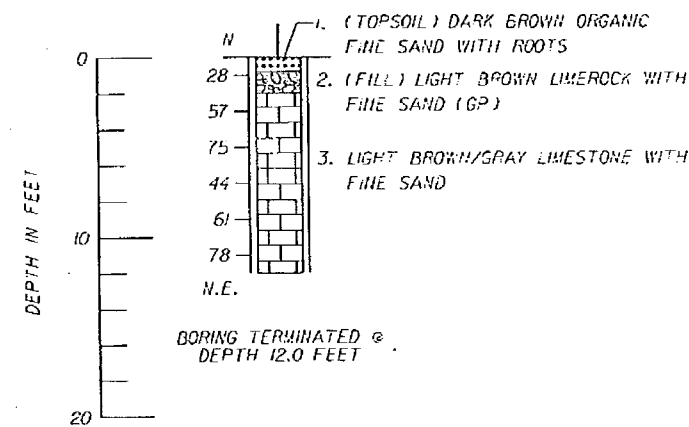
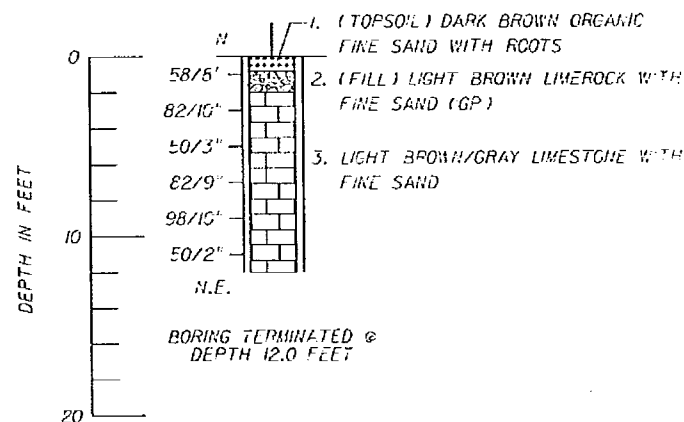
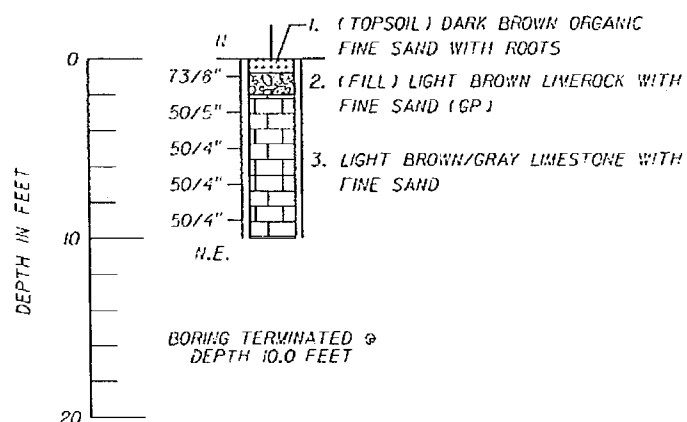
SHEET
NO.
43

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 605-23.003, F.A.C.

BORING No. SB-1
 NORTHING 225948.858
 EASTING 794608.929
 STATION 90+00
 OFFSET 40'RT
 DATE 10/03/07
 HAMMER AUTOMATIC
 TYPE OF RIG CME 55
 DRILLED BY O.C.

BORING No. SB-2
 NORTHING 226069.447
 EASTING 794823.910
 STATION 92+00
 OFFSET 25'RT
 DATE 10/03/07
 HAMMER AUTOMATIC
 TYPE OF RIG CME 55
 DRILLED BY O.C.

BORING No. SB-3
 NORTHING 226073.264
 EASTING 794883.534
 STATION 93+00
 OFFSET 25'RT
 DATE 10/03/07
 HAMMER AUTOMATIC
 TYPE OF RIG CME 55
 DRILLED BY O.C.



NOTES

STATIONS AND OFFSETS ARE REFERENCED TO SURVEY BASELINE SR 5.
 PLANE COORDINATES WERE COLLECTED USING A HAND-HELD GPS INSTRUMENT
 N.E.: WATER TABLE NOT ENCOUNTERED
 II NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION (UNLESS OTHERWISE NOTED).
 PSI DRILLERS: OSCAR CORREA (OC)

LEGEND

- 1. (TOPSOIL) DARK BROWN ORGANIC FINE SAND WITH ROOTS
- 2. (FILL) LIGHT BROWN LIMESTONE WITH FINE SAND (GP)
- 3. LIGHT BROWN/GRAY LIMESTONE WITH FINE SAND

THE INSTALLATION OF THE STRUCTURE FOUNDATIONS MAY REQUIRE EXCAVATION INTO THE LIMESTONE FORMATION. THE LIMESTONE RANGES IN STRENGTH FROM MODERATELY TO VERY STRONGLY CEMENTED. THEREFORE, THE CONTRACTOR MUST ANTICIPATE A HIGH RESISTANCE TO EXCAVATION ACTIVITY. SPECIAL EQUIPMENT AND BREAKING TOOLS MAY BE REQUIRED.
 SR 5/ EAST OF VENETIAN BLVD.
 ENVIRONMENTAL CLASSIFICATION:
 SUBSTRUCTURES: MODERATELY AGGRESSIVE
 SUPERSTRUCTURES: MODERATELY AGGRESSIVE

GRANULAR MATERIALS- RELATIVE DENSITY	AUTOMATIC HAMMER	SAFETY HAMMER
	SPT-II (BLOWS/12 INCH)	SPT-II (BLOWS/12 INCH)
VERY LOOSE	LESS THAN 3	LESS THAN 4
LOOSE	3-8	4-10
MEDIUM	8-24	10-30
DENSE	24-40	30-50
VERY DENSE	GREATER THAN 40	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	AUTOMATIC HAMMER	SAFETY HAMMER
	SPT-II (BLOWS/12 INCH)	SPT-II (BLOWS/12 INCH)
VERY SOFT	LESS THAN 1	LESS THAN 2
SOFT	1-3	2-4
FIRM	3-6	4-8
STIFF	6-12	8-15
VERY STIFF	12-24	15-30
HARD	GREATER THAN 24	GREATER THAN 30

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PSI ENVIRONMENTAL
 GEOTECHNICAL
 CONSTRUCTION
 7950 N.W. 64TH STREET, MIAMI, FL 33166
 PHONE: (305) 471-7725 - FAX: (305) 553-1815
 CERTIFICATE OF AUTHORIZATION No. 3684
 ENGINEER OF RECORD: MCGO E. SOTO, P.E. No. 26440

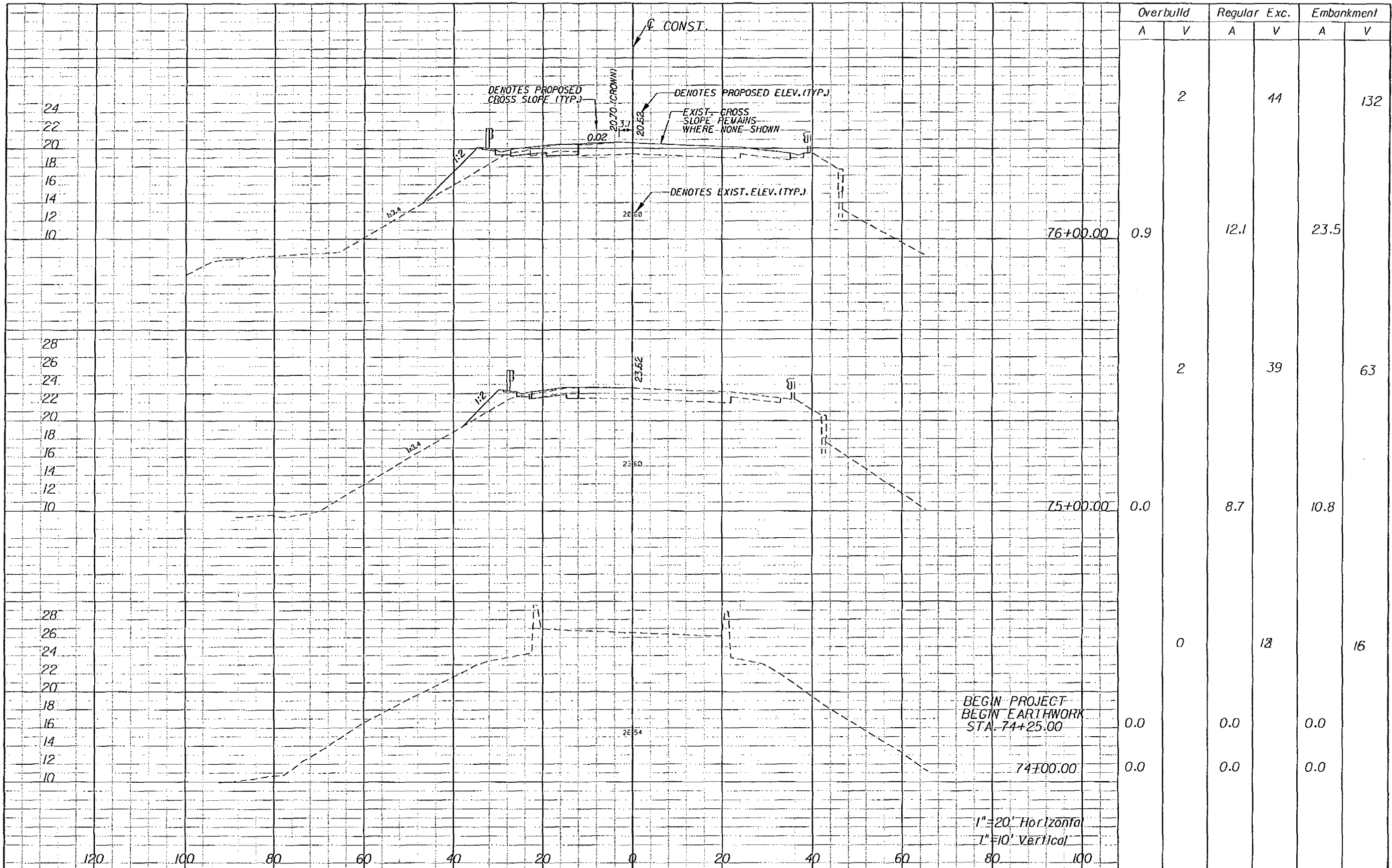
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 5	MONROE	405582-8-52-01

REPORT OF CORE BORINGS

SHEET NO.
 44

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REVISIONS			
DATE	BY	DESCRIPTION	

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOVEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

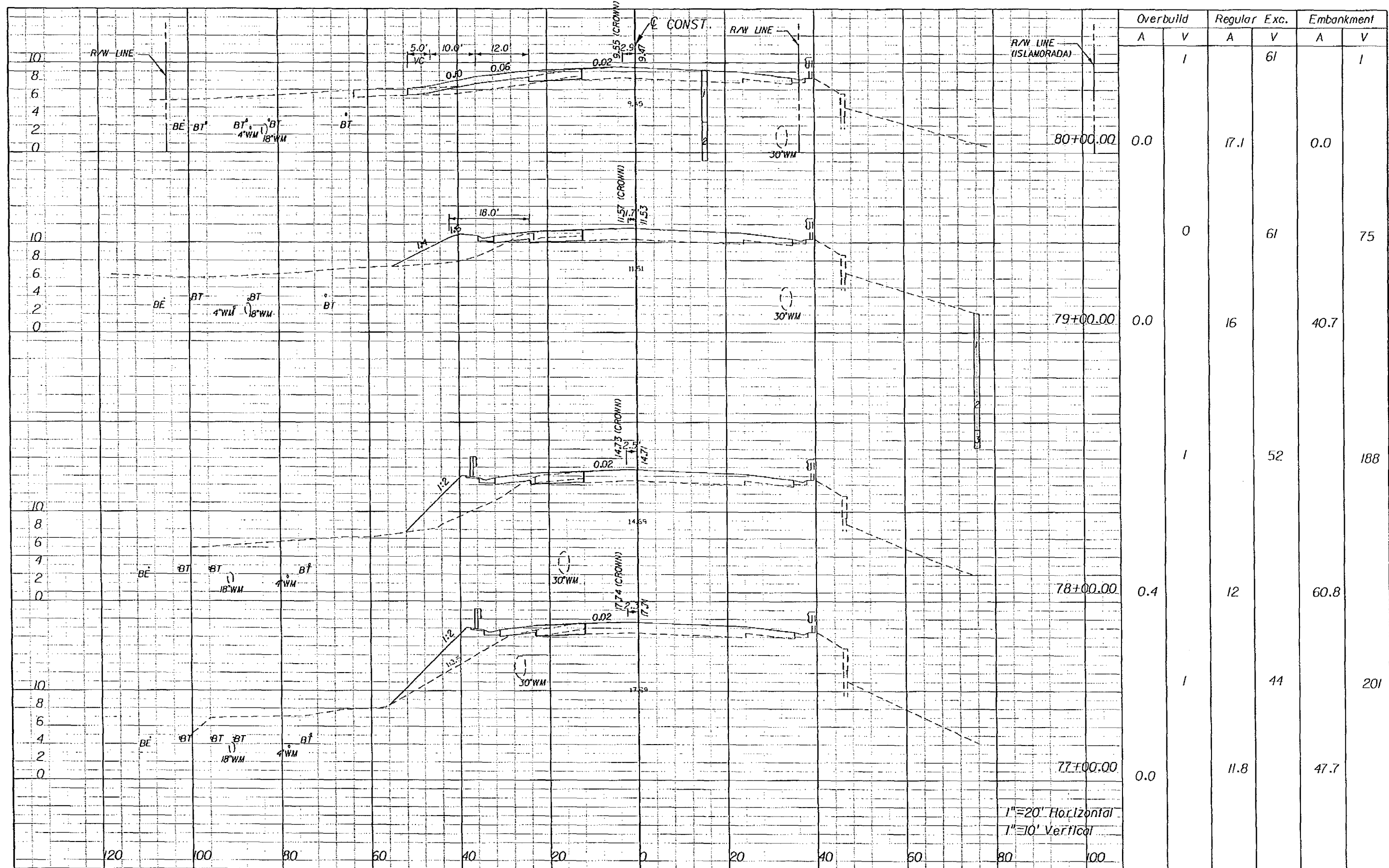
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO. 45

Station	Overbuild		Regular Exc.		Embankment	
	A	V	A	V	A	V
76+00.00	0.9	2	12.1	44	23.5	132
75+00.00	0.0	2	8.7	39	10.8	63
74+00.00	0.0	0	18	18	16	16
74+25.00	0.0	0.0	0.0	0.0	0.0	0.0

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Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	1	17.1	61	0.0	1
0.0	0	16	61	40.7	75
0.4	1	12	52	60.8	188
0.0	1	11.8	44	47.7	201

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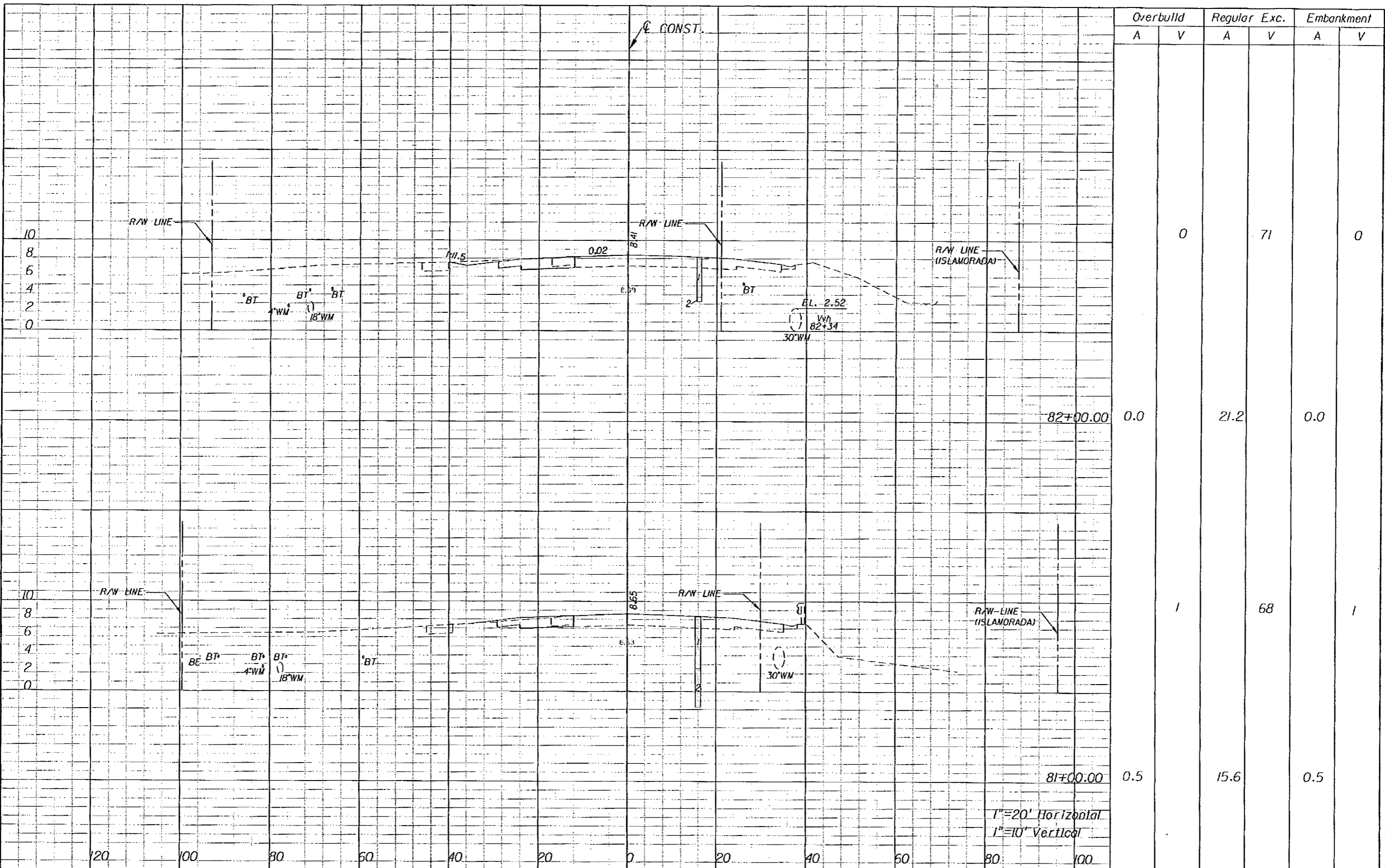
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
46



REVISIONS			
DATE	BY	DESCRIPTION	DATE

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

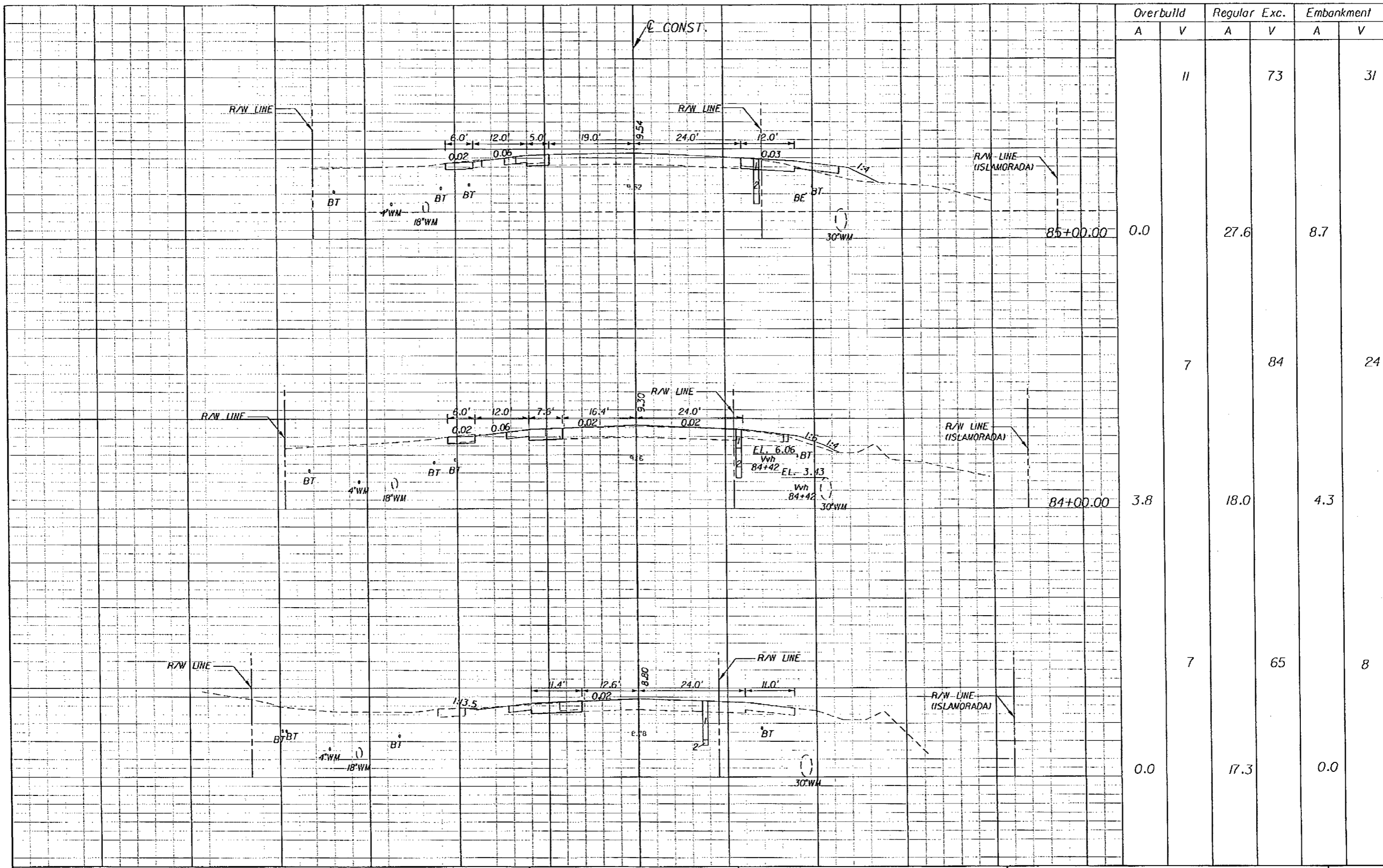
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
47

Station	Overbulld		Regular Exc.		Embankment	
	A	V	A	V	A	V
82+00.00	0.0	0	21.2	71	0.0	0
81+00.00	0.5	1	15.6	68	0.5	1

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Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
	11		73		31
0.0		27.6		8.7	
	7		84		24
3.8		18.0		4.3	
	7		65		8
0.0		17.3		0.0	

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

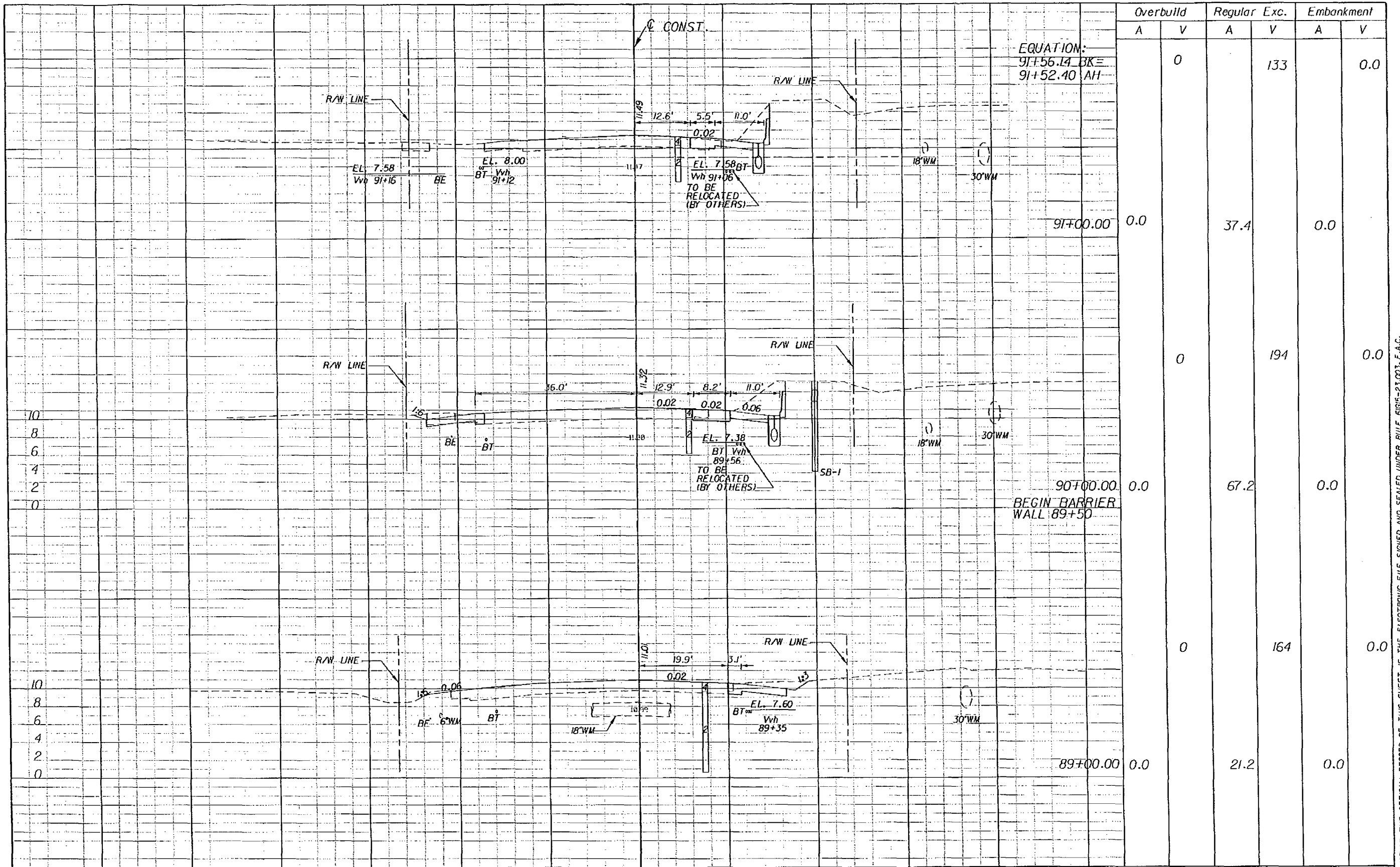
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
48

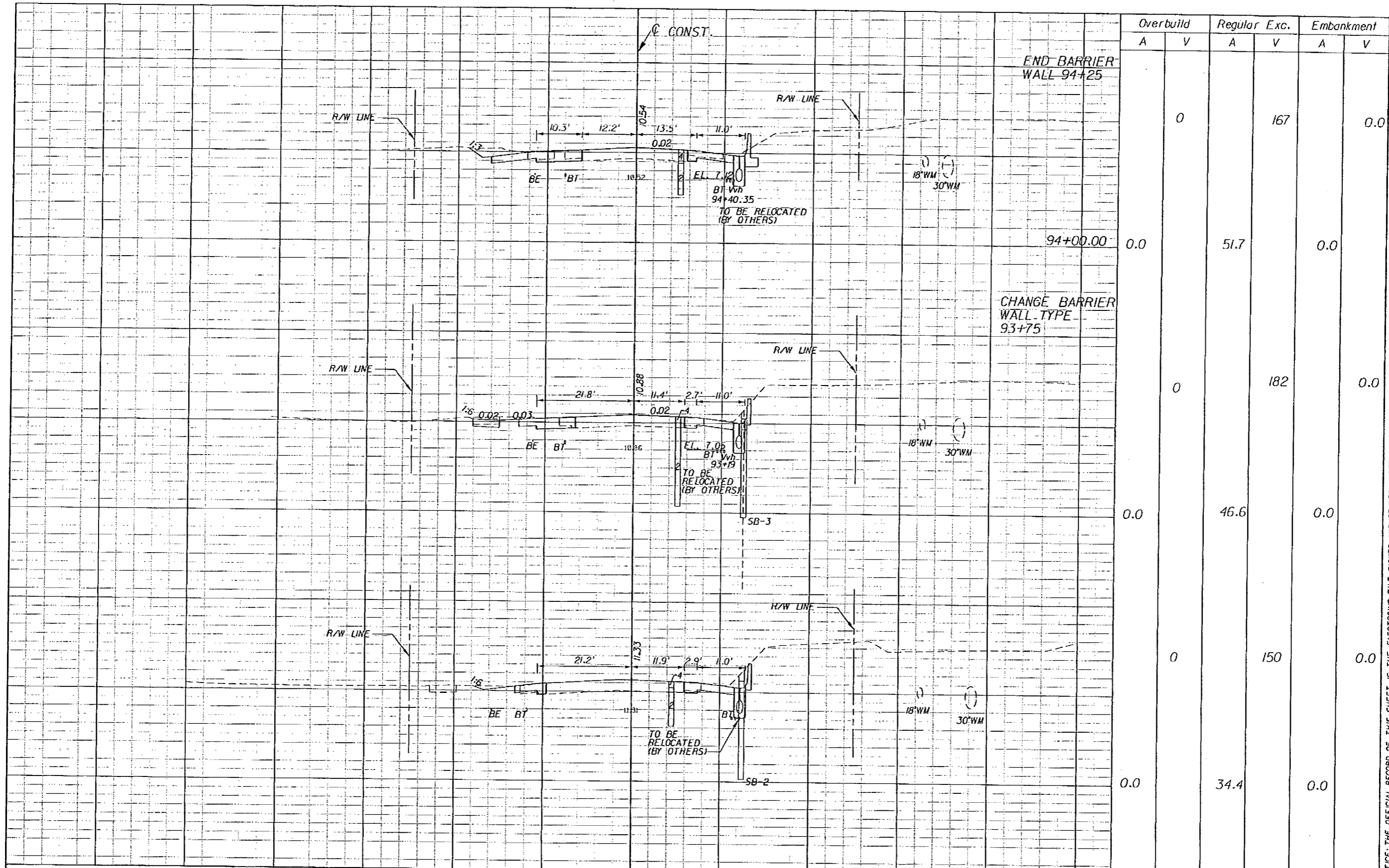


EQUATION:
 $91+55.14 \text{ BK} =$
 $91+52.40 \text{ AH}$

Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
	0		133		0.0
91+00.00	0.0	37.4		0.0	
	0		194		0.0
90+00.00	0.0	67.2		0.0	
	0		164		0.0
89+00.00	0.0	21.2		0.0	

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REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SHEET NO. 50
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR-5	MONROE	405582-8-52-01		



	Overbuild		Regular Exc.		Embankment	
	A	V	A	V	A	V
END BARRIER WALL 94+25	0.0	0	51.7	167	0.0	0.0
94+00.00	0.0	0	46.6	182	0.0	0.0
CHANGE BARRIER WALL TYPE 93+75	0.0	0	34.4	150	0.0	0.0

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

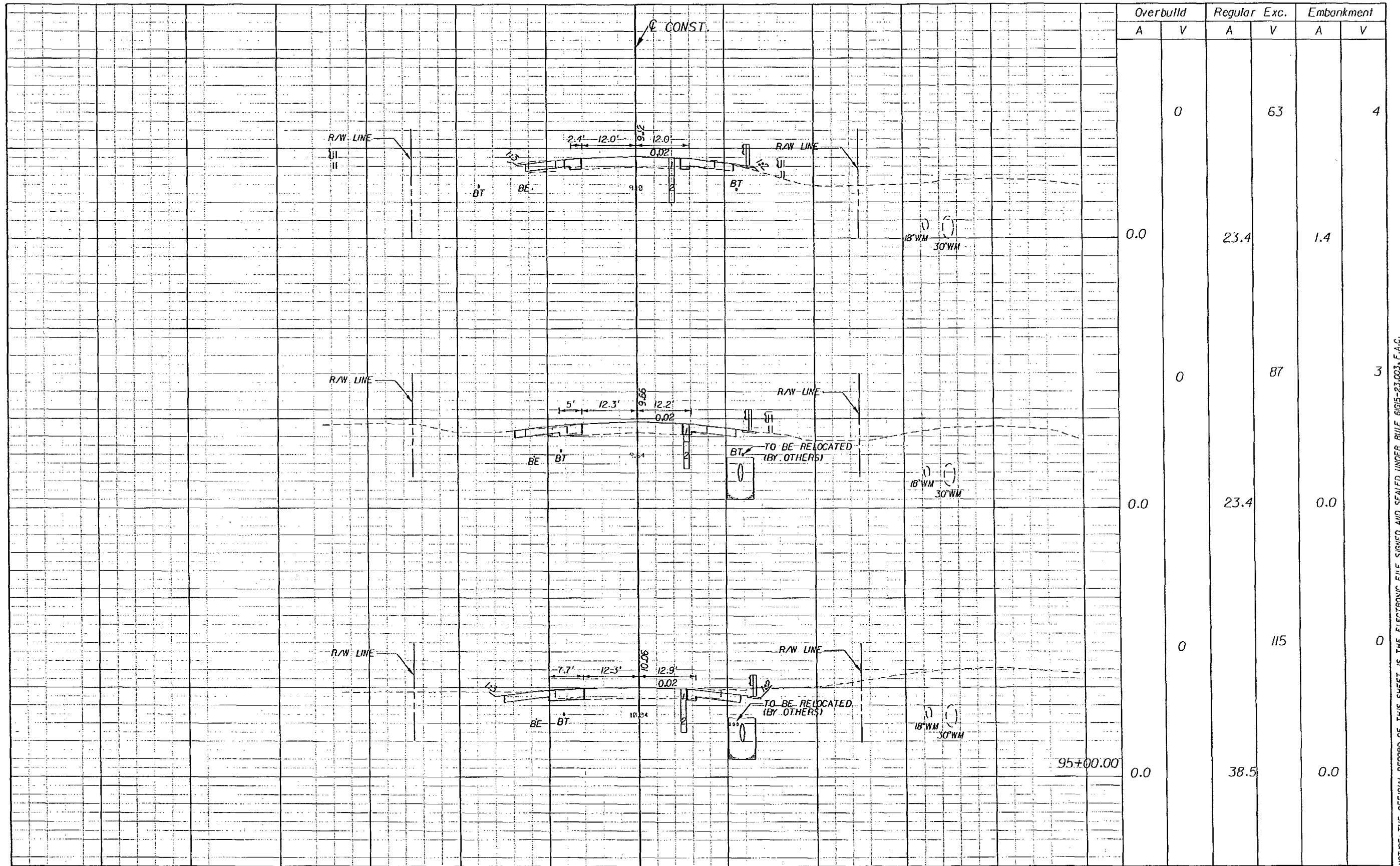
BOLTON, PEREZ & ASSOCIATES
 1205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

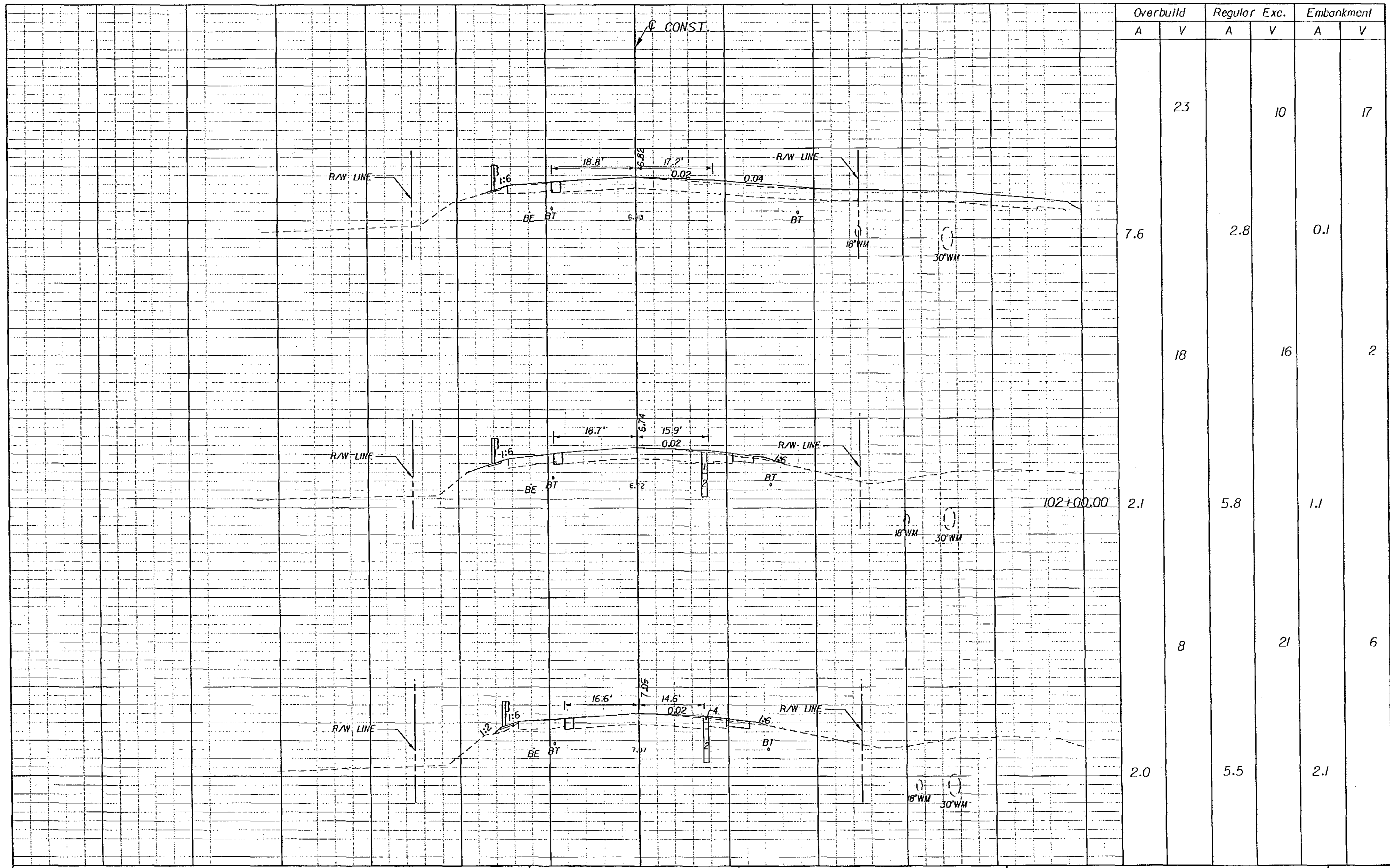
SHEET NO.
51



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REVISIONS			BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NO. 52
DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	
			SR-5	MONROE	FINANCIAL PROJECT ID 405582-8-52-01	

CROSS SECTIONS



Overbuild		Regular		Exc.		Embankment	
A	V	A	V	A	V	A	V
	23		10		17		
7.6		2.8		0.1			
	18		16		2		
2.1		5.8		1.1			
	8		21		6		
2.0		5.5		2.1			

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REVISIONS			
DATE	BY	DESCRIPTION	

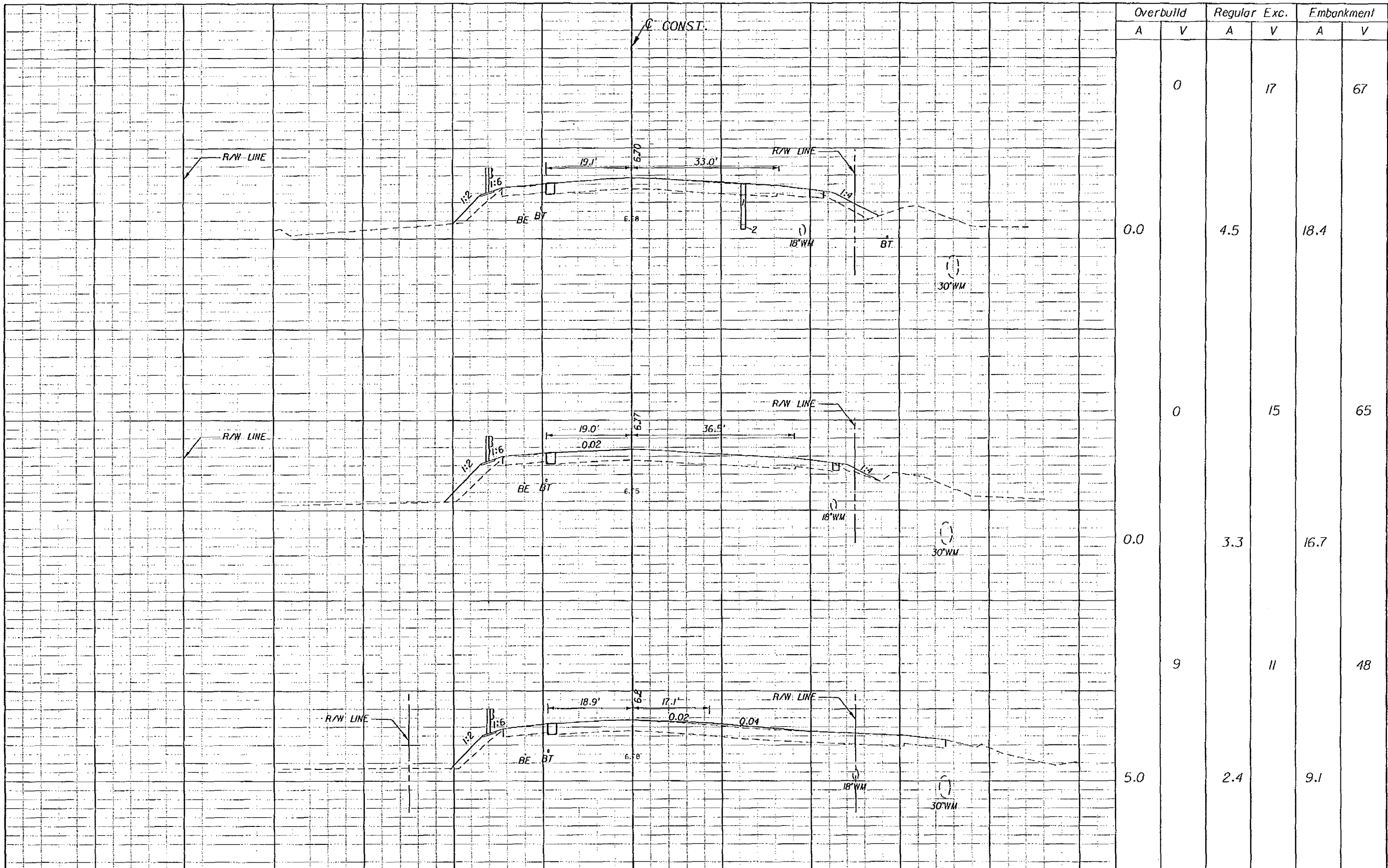
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
54



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

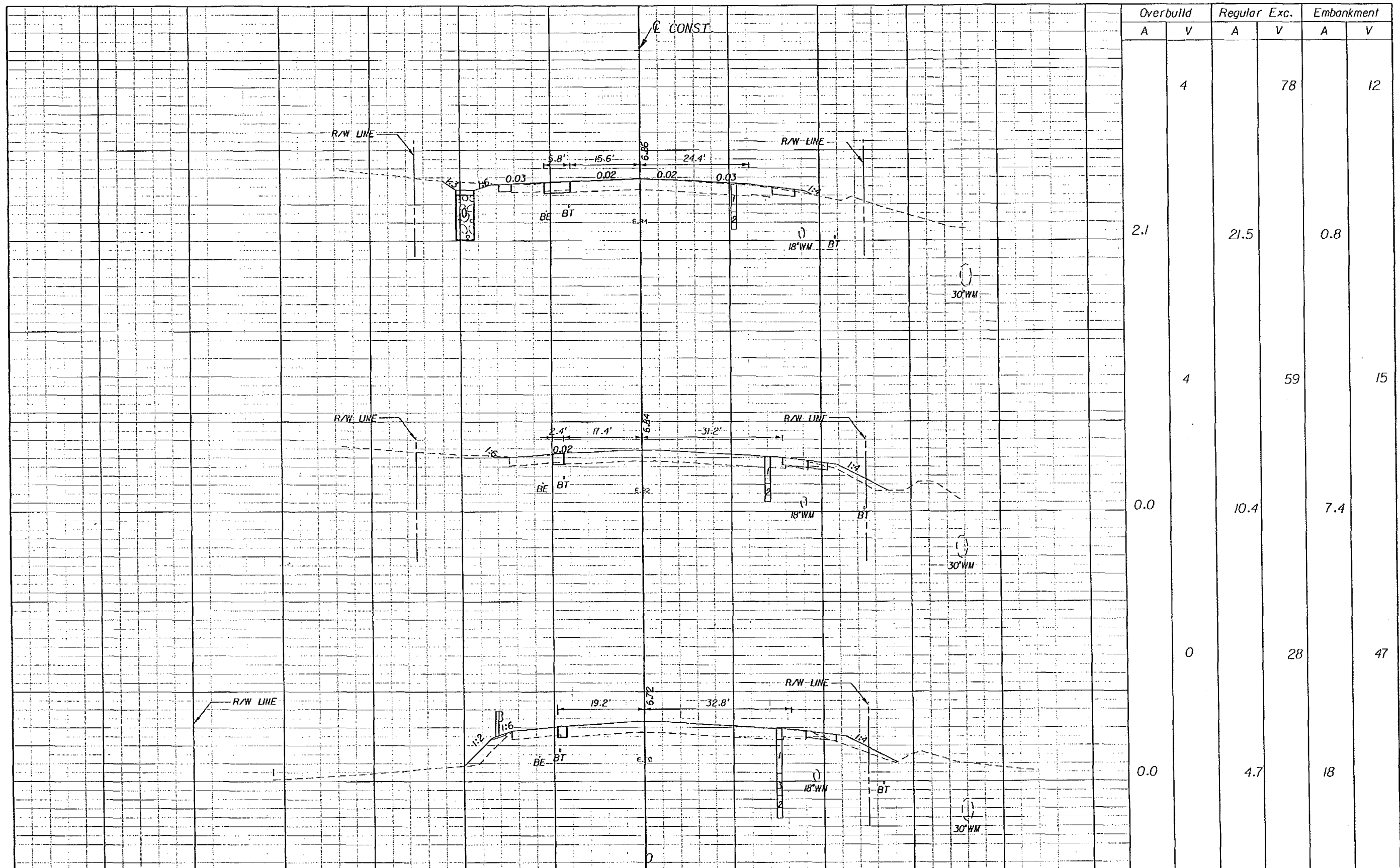
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS					
Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	4.5	17	18.4	67
0.0	0	3.3	15	16.7	65
5.0	9	2.4	11	9.1	48

SHEET NO.
55

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Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
	4		78		12
2.1		21.5		0.8	
	4		59		15
0.0		10.4		7.4	
	0		28		47
0.0		4.7		18	

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

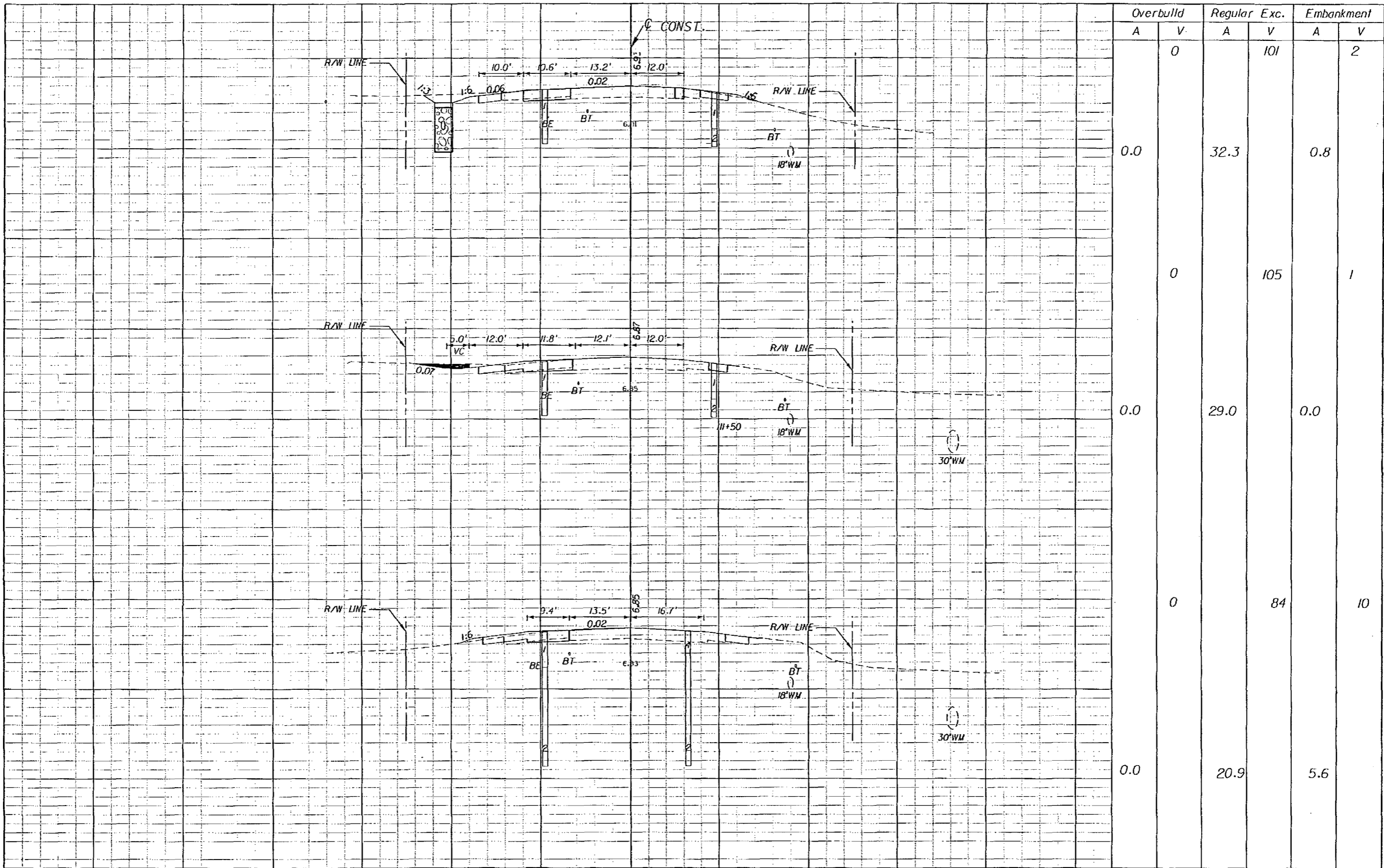
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
56



Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	32.3	101	0.8	2
0.0	0	105		1	
0.0	0	84		10	
0.0	0	20.9		5.6	

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

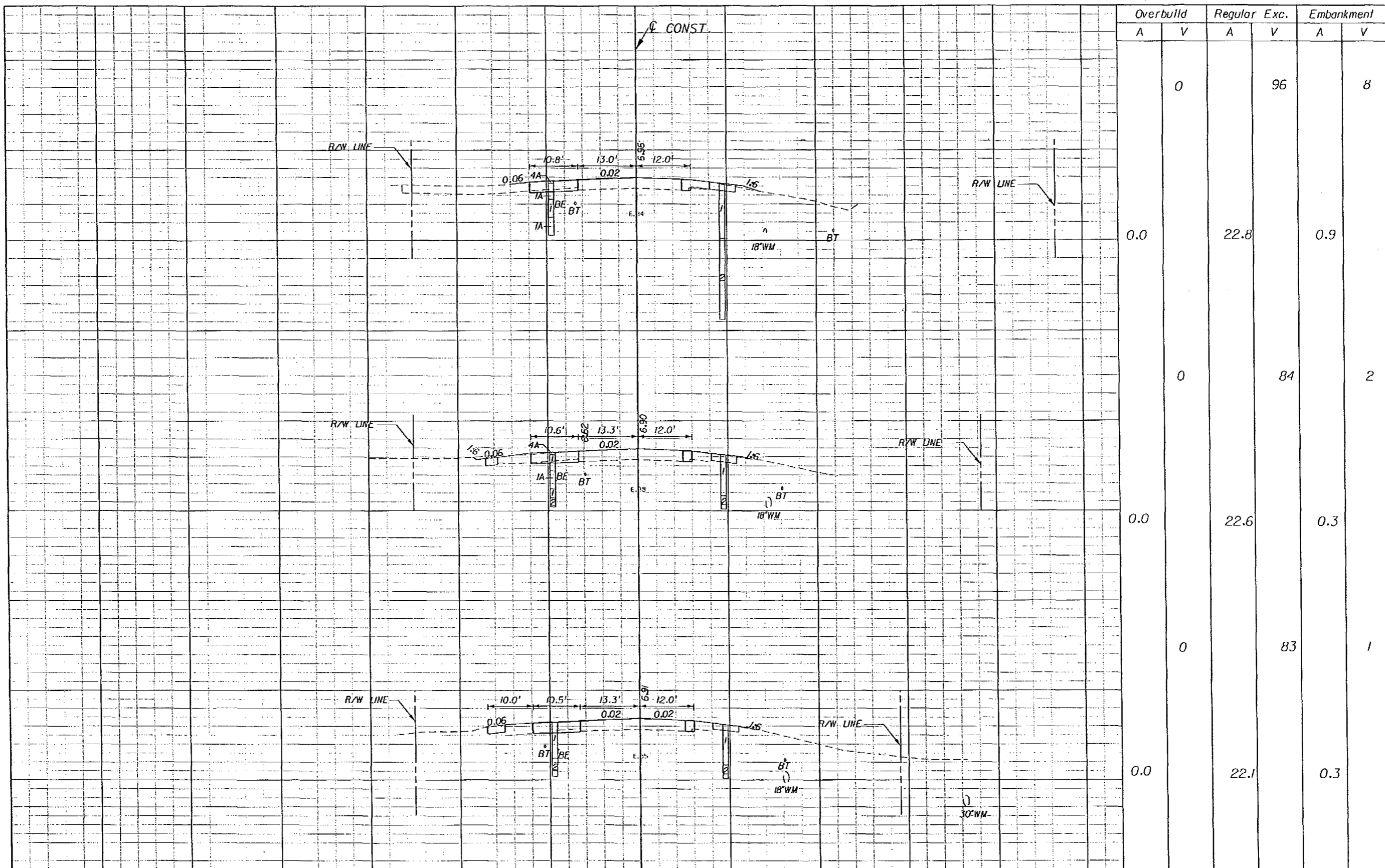
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. SR-5 COUNTY MONROE FINANCIAL PROJECT ID 405582-8-52-01

CROSS SECTIONS

SHEET NO. 57

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Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0	22.8	96	0.9	8
0.0	0	84	84	2	2
0.0	0	22.6	83	0.3	1
0.0	0	22.1	83	0.3	1

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

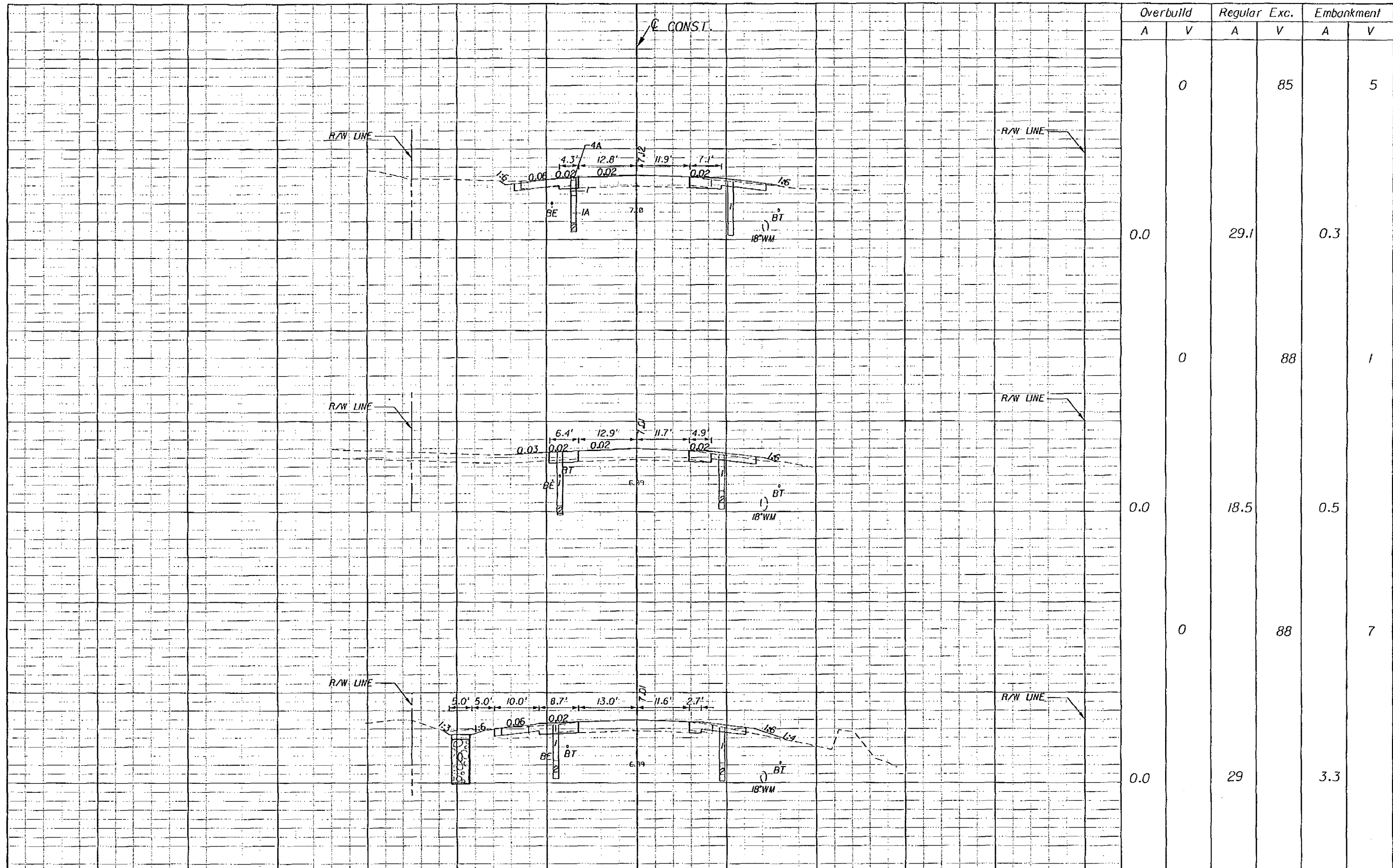
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
58



Overbuild		Regular		Exc.		Embankment	
A	V	A	V	A	V	A	V
	0		85				5
0.0		29.1		0.3			
	0		88				1
0.0		18.5		0.5			
	0		88				7
0.0		29		3.3			

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REVISIONS				DATE		BY		DESCRIPTION	
DATE	BY	DESCRIPTION	DATE						

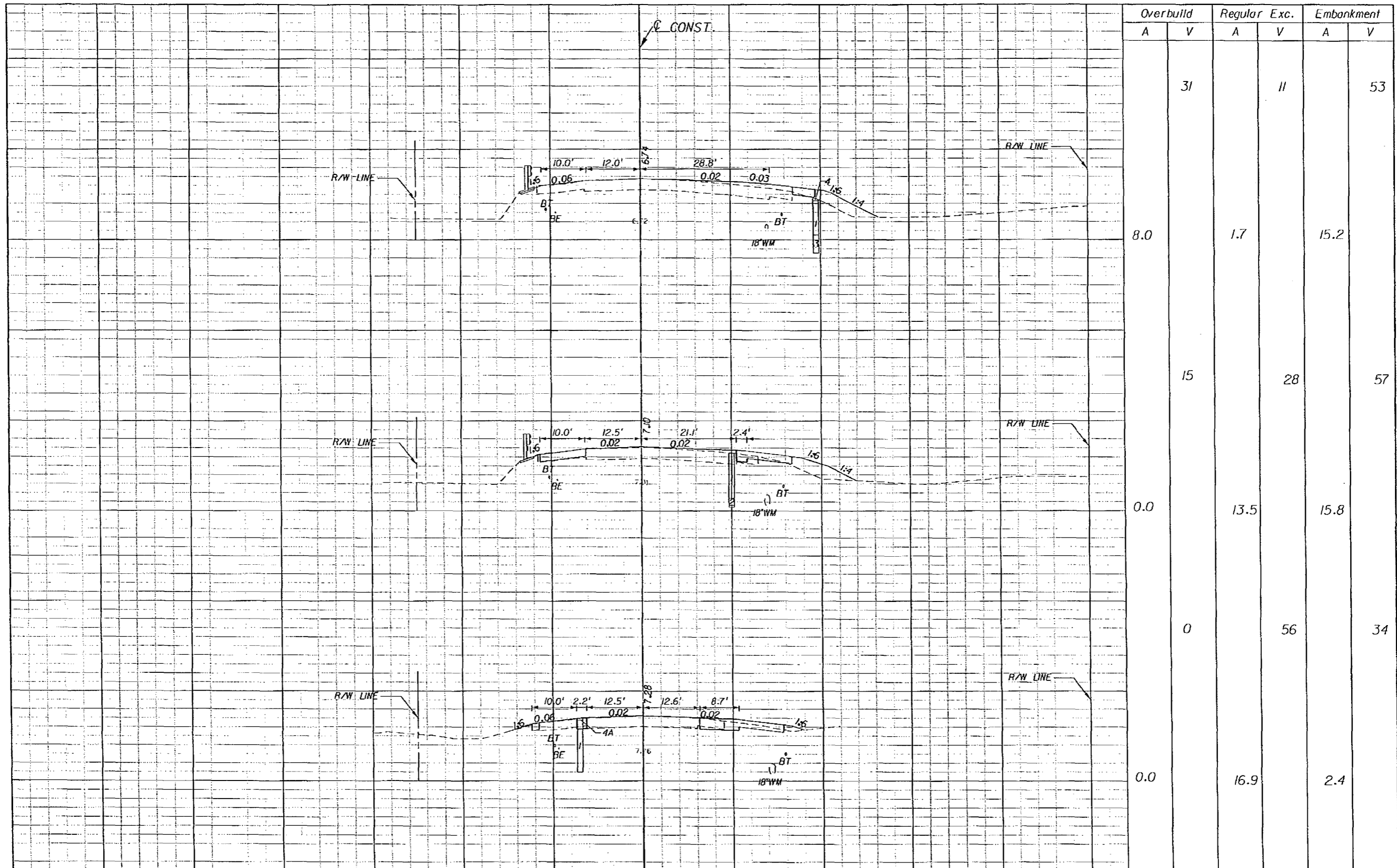
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 1904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
59



Overbuild		Regular		Exc.		Embankment	
A	V	A	V	A	V	A	V
8.0	31	1.7	11	15.2	53		
0.0	15	28	57	15.8			
0.0	0	56	34	2.4			

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

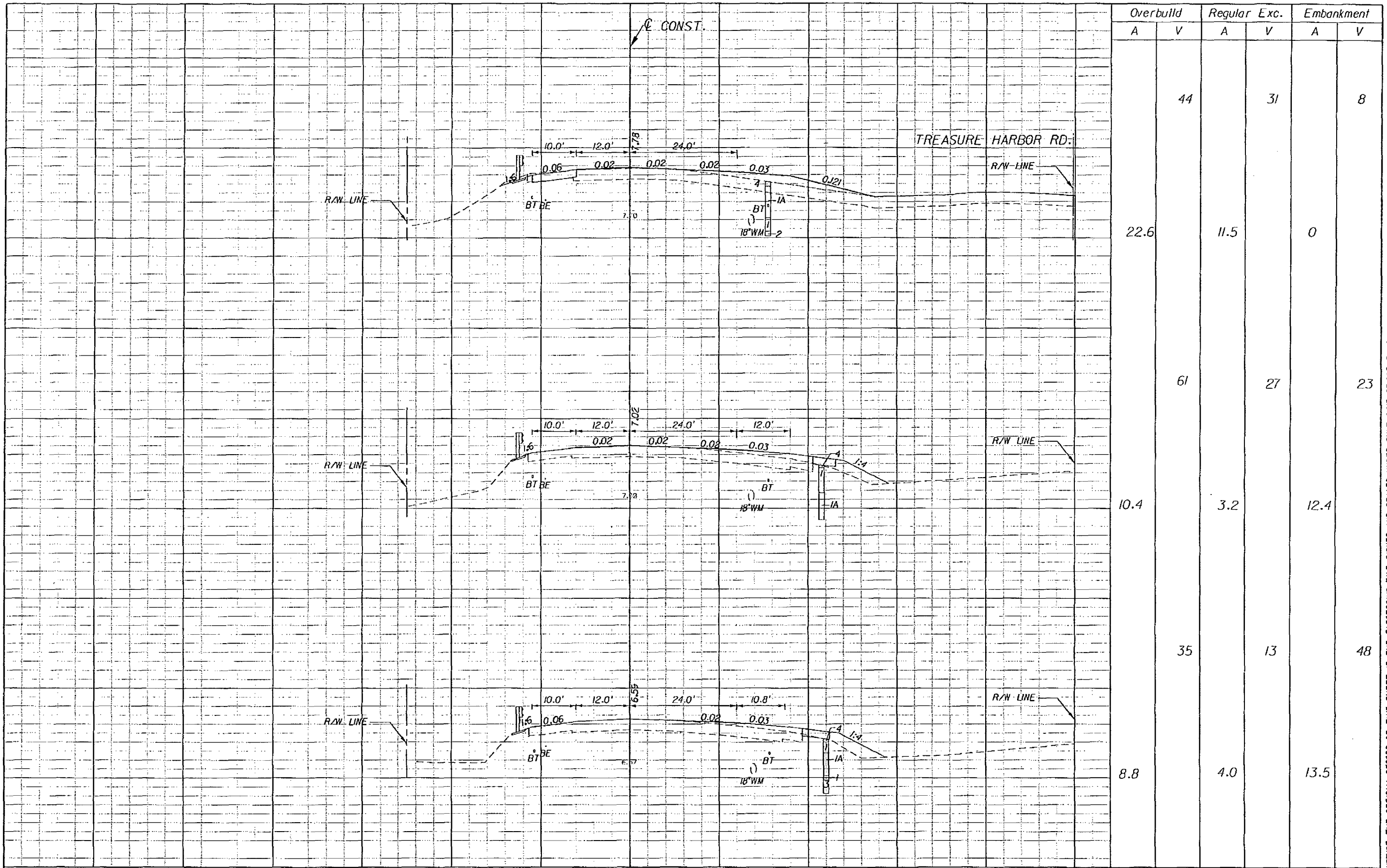
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
60



Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
	44		31		8
22.6		11.5		0	
	61		27		23
10.4		3.2		12.4	
	35		13		48
8.8		4.0		13.5	

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

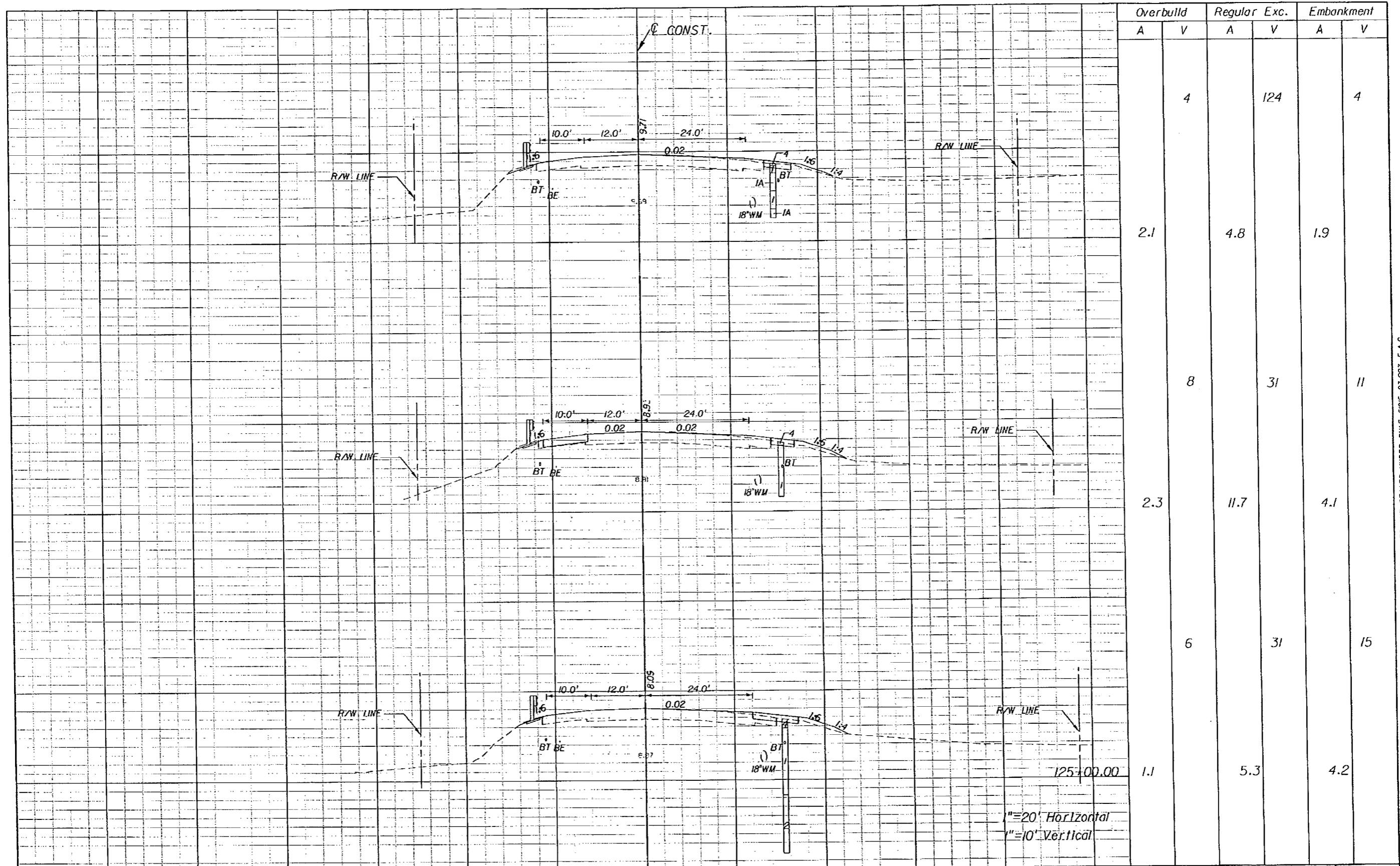
BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 1904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

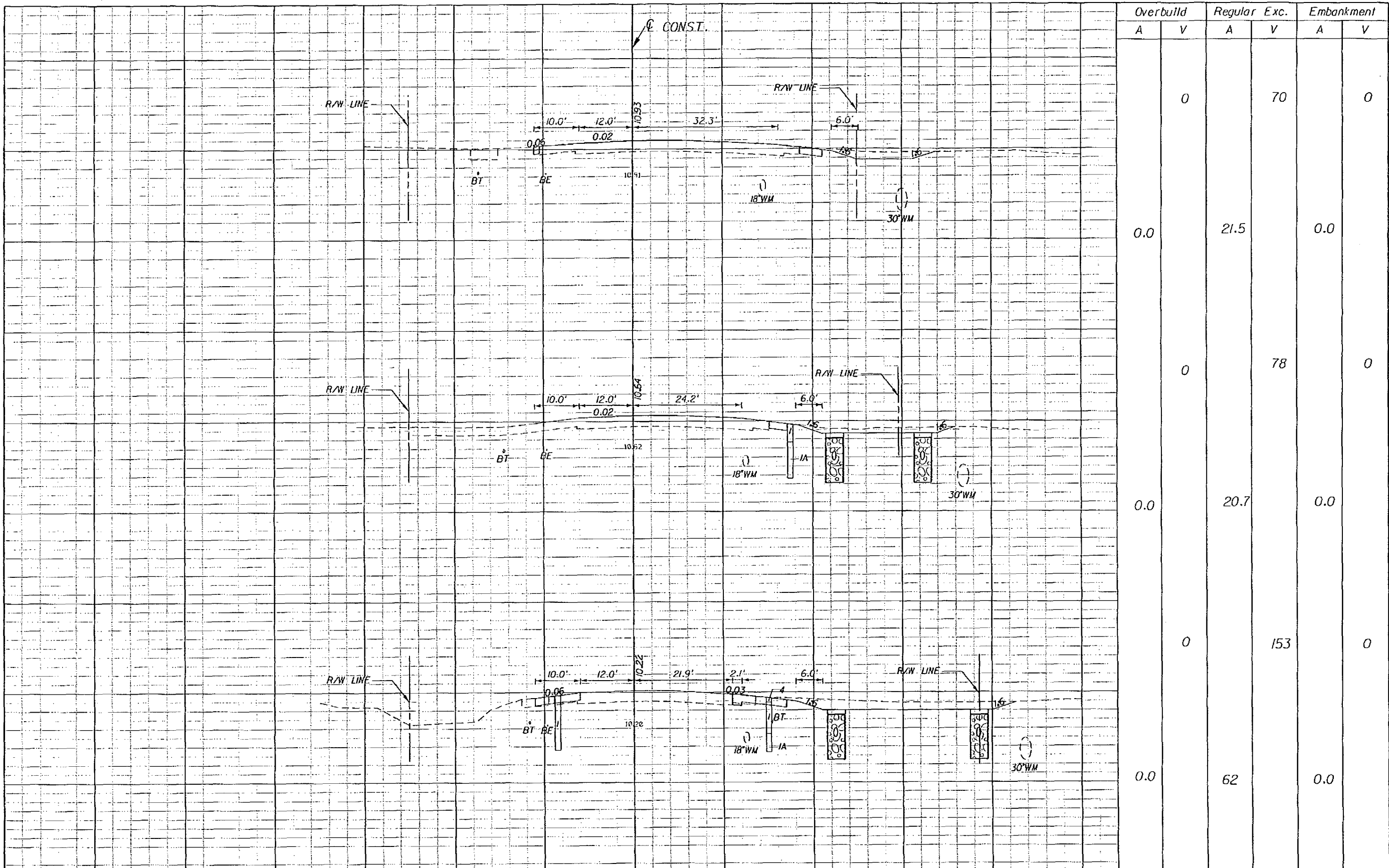
SHEET NO.
61



Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
	4		124		4
2.1		4.8		1.9	
	8		31		11
2.3		11.7		4.1	
	6		31		15
1.1		5.3		4.2	

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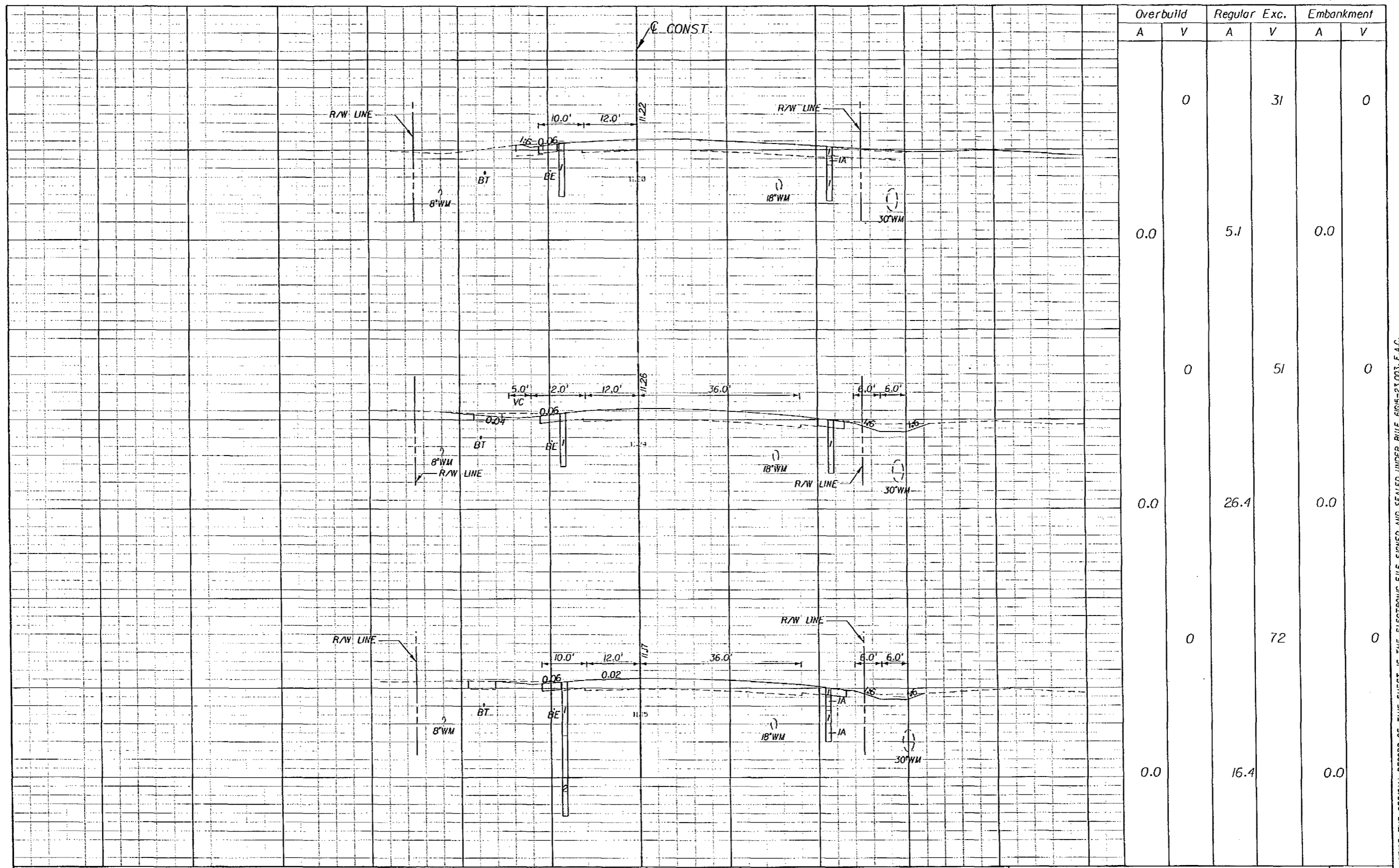
REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		62
						SR-5	MONROE	405582-8-52-01			



REVISIONS			DATE			BY			DESCRIPTION		

BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROAD NO. SR-5 COUNTY MONROE FINANCIAL PROJECT ID 405582-B-52-01			CROSS SECTIONS SHEET NO. 63		
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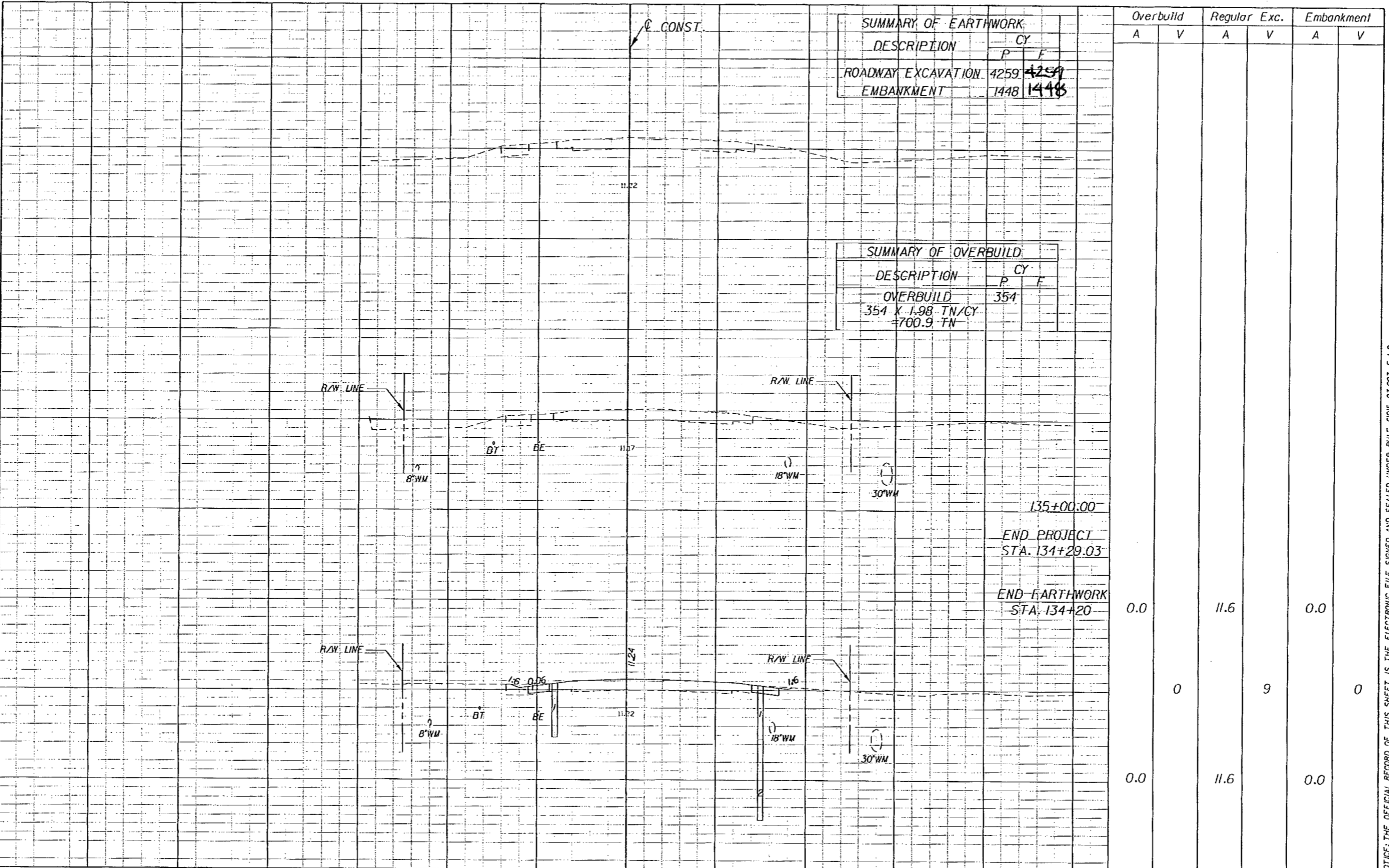
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61B5-23.003, F.A.C.



Overbuild		Regular Exc.		Embankment	
A	V	A	V	A	V
	0		31		0
0.0		5.1		0.0	
	0		51		0
0.0		26.4		0.0	
	0		72		0
0.0		16.4		0.0	

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REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION T904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO. 64
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR-5	MONROE	405582-8-52-01			



SUMMARY OF EARTHWORK		
DESCRIPTION	P	F
ROADWAY EXCAVATION	4259	4259
EMBANKMENT	1448	1448

SUMMARY OF OVERBUILD		
DESCRIPTION	P	F
OVERBUILD	354	
354 X 1.98 TN/CY = 700.9 TN		

	Overbuild		Regular Exc.		Embankment	
	A	V	A	V	A	V
135+00.00						
END PROJECT STA. 134+29.03						
END EARTHWORK STA. 134+20	0.0		11.6		0.0	
		0		9		0
	0.0		11.6		0.0	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

BOLTON, PEREZ & ASSOCIATES
 7205 CORPORATE CENTER DRIVE, SUITE 201
 MIAMI, FLORIDA 33126
 CERTIFICATE OF AUTHORIZATION 7904
 P.E. LICENSE NUMBER 43956
 FERNANDO V. GOMEZ, P.E.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR-5	MONROE	405582-8-52-01

CROSS SECTIONS

SHEET NO.
65

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT WILL ADD NEW CENTER MERGE LANES FOR IMPROVED TRAFFIC OPERATIONS AND WILL WIDEN SHOULDERS TO COMPLETE A BICYCLE PATH ON BOTH SIDES OF THE ROADWAY.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER. FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM SEWER CONSTRUCTION.
2. STORM SEWER AND ROADWAY FRENCH DRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
3. EARTHWORK ASSOCIATED WITH ROADWAY, AND CONSTRUCTION OF RETAINING WALL, SUBGRADE, BASE AND PAVEMENT.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 12.63 ACRES.
TOTAL AREA TO BE DISTURBED: 1.17 ACRES.

1.D. RUNOFF DATA, RUNOFF COEFFICIENTS:

BEFORE:	0.64
DURING:	VARIES FROM 0.64 TO 0.71
AFTER:	0.71

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY

SOIL SURVEY SHEET(S). THE NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

OUTFALL INFORMATION: PROPOSED ON-SITE RETENTION IN EXFILTRATION TRENCHES AND SWALES WITH NO OUTFALLS.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- * APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE PLAN SHEETS, AND THE DRAINAGE STRUCTURE SHEETS.
- * AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- * AREAS NOT TO BE DISTURBED: AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION ARE NOT TO BE DISTURBED.
- * AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS AND THE PLAN SHEETS.

- * SURFACE WATERS: CONSTRUCTION AREA IS FLANKED BY WETLANDS EXCEPT IN THE AREA OF THE WEIGH STATION.
- * DISCHARGE POINTS TO SURFACE WATERS: SEE ITEM 1.D FOR THE LOCATIONS OF THE DISCHARGE POINTS TO SURFACE WATERS.

1.F. RECEIVING WATERS

SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

PHASE I OF TRAFFIC CONTROL PLANS:

1. CONSTRUCT WIDENING ALONG THE RIGHT SIDE (STA. 80+00 - 105+00 AND 127+00 - 135+00) AND THE LEFT SIDE (STA. 105+00 - 127+00), INCLUDING THE DRAINAGE STRUCTURES LOCATED IN THE AREA.

PHASE II OF TRAFFIC CONTROL PLANS:

1. CONSTRUCT WIDENING ALONG THE LEFT SIDE (STA. 80+00 - 105+00 AND 127+00 - 135+00) AND THE RIGHT SIDE (STA. 105+00 - 127+00), INCLUDING THE DRAINAGE STRUCTURES LOCATED IN THE AREA.
2. MILL & RESURFACE ONE LANE AT A TIME.

2.A.1 STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 14 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
- * SEED AND MULCH, AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

PERMANENT:

- * ASPHALT OR CONCRETE SURFACE.
- * SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES :

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

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REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN	SHEET NO. 66
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR-5	MONROE	405582-8-52-01			

TEMPORARY:

- * SILT FENCE IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION 104.
- * ROCK BAGS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
- * ROCK BAGS TO CONTROL EROSION AND TRAP SILT.
- * INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102

PERMANENT:

- * ASPHALT OR CONCRETE SURFACE
- * SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.B STORMWATER MANAGEMENT:

RUNOFF GENERALLY SHEET FLOWS TO ROADSIDE SWALES FOR RETENTION AND INFILTRATION. PROJECT PROPOSES TO ADD ADDITIONAL RETENTION SWALES WITH SEEPAGE TRENCHES AT STATIONS 86+10 TO 86+63 (RT), 86+95 TO 87+90 (RT) AND 128+17 TO 132+63 (RT). IN ADDITION, FRENCH DRAIN EXFILTRATION TRENCHES ARE PROPOSED TO BE ADDED TO SUPPLEMENT THE SWALES AT STATIONS 84+40 TO 86+05 (RT), 89+60 TO 94+40 (RT), 91+20 TO 91+72 (LT), 108+90 TO 110+10 (LT), 111+30 TO 112+10 (LT), 115+80 TO 118+50 (LT).

2.C OTHER CONTROLS :

2.C.1 WASTE DISPOSAL :

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING , UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF SITE VEHICLE & DUST CONTROL :

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.

- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS :

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES :

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH THE APPLICABLE OF EITHER SECTION 570 OR 577 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES :

IN THE SECTION 105 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED IN THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 PERMITS / APPROVALS : THE NATURE OF THE DRAINAGE IMPROVEMENTS CALLS FOR A NO-NOTICE GENERAL PERMIT PER SFWMD PERMIT MANUAL SECTION 40E-400.316.

3.0 MAINTENANCE: :

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING :

- * SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.
- * RETENTION DITCHES: THE DITCHES ARE TEMPORARY SEDIMENT BASINS UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED, SO UNTIL THEN , REMOVE SEDIMENT FROM THE RETENTION DITCHES WHEN IT BECOMES 1.5' DEEP AT ANY POINT.

4.0 INSPECTIONS:

QUALIFIED PERSONAL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL MAINTAIN RAIN GAGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT AND PREVENT DISCHARGING POLLUTIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 204 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURE TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR AT (305) 470 - 5220.

6.0 FDEP PERMIT SUBMITTALS :

THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN EROSION CONTROL PLAN (ECP) AS REQUIRED BY SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS PRIOR TO THE CONTRACTOR'S SUBMITTAL FOR THE FDEP PERMIT. IF THIS SWPPP IS ADOPTED AS PART OF THE CONTRACTOR'S SECTION 104 ECP FOR THE PROJECT, COPIES OF THE SWPPP SHEETS AND OTHER PLAN SHEETS INCLUDED BY REFERENCE SHALL BE INCLUDED WITH THE ECP SUBMITTAL. THE CONTRACTOR MAY ELECT TO SUBMIT A REVISED SWPPP THAT IS IN COMPLIANCE WITH STORM WATER REGULATIONS AT 40 CFR 122.26 (b)(14) AND STATE WATER QUALITY STANDARDS.

THE CONTRACTOR SHOULD BE AWARE THAT MODIFICATIONS OF THE TRAFFIC CONTROL PLANS (TCP) MIGHT REQUIRE THE CONTRACTOR TO MODIFY THE SWPPP. THE CONTRACTOR'S MODIFIED SWPPP MUST BE PROVIDED TO FDOT PERSONNEL PRIOR TO THE FDEP PERMIT APPLICATION SUBMITTAL. THE PERMIT APPLICATION SHOULD BE SUBMITTED TO THE FDEP THIRTY (30) DAYS PRIOR TO ANY CLEARING AND GRUBBING ACTIVITIES. NO SOIL DISTURBING ACTIVITIES CAN BE CONDUCTED UNTIL THE PERMIT PACKAGE HAS BEEN MAILED TO THE FDEP.

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REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR-5	MONROE	405582-8-52-01		67

TRAFFIC CONTROL PLAN NOTES

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FLORIDA DOT DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA.

2. TEMPORARY PAVEMENT SHALL CONSIST OF A MINIMUM OF 6 IN OF LIMEROCK BASE, PRIME COAT AND 1 IN OF SUPERPAVE ASPHALTIC CONCRETE. THE BASE LAYER SHALL BE PLACED OVER A FIRM, UNYIELDING, WELL-COMPACTED SUBGRADE. COST OF CONSTRUCTION AND REMOVAL OF TEMPORARY PAVEMENT TO BE INCLUDED IN PAY ITEM 334-1-II, SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC LEVEL A).

3. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHoles THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

4. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE, DETOUR OR MOT PHASE CHANGE BY SUBMITTING THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA THROUGH THE ENGINEER TO THE DISTRICT TRAFFIC OPERATIONS OFFICE.

5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM THE WEIGH STATION IN BOTH DIRECTIONS AT ALL TIMES. SHOULD CLOSURE OF WEIGH STATION ACCESS BE REQUIRED, CONTRACTOR SHALL COORDINATE WITH FDOT MOTOR CARRIER COMPLIANCE 72 HOURS PRIOR TO CLOSURE AND OBTAIN PERMISSION IN WRITING.

6. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LAHE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.

7. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.

8. LANE CLOSINGS SHALL OCCUR ONLY DURING NON-PEAK HOURS. NON-PEAK HOURS ARE: FROM 8:00 P.M. TO 6 A.M. SUNDAY THROUGH THURSDAY. NO EXISTING LANES SHALL BE CLOSED ON SATURDAY, SUNDAY, OR ANY HOLIDAY. NO EXISTING LANES SHALL BE CLOSED ON A FRIDAY PRECEDING A SATURDAY HOLIDAY OR THE MONDAY FOLLOWING A SUNDAY HOLIDAY. NO EXISTING LANE SHALL BE CLOSED DURING KEYS SPECIAL EVENT DATES AS DETERMINED BY THE ENGINEER. THE ENGINEER MAY ADJUST LANE CLOSURE TIMES IF CONDITIONS WARRANT.

9. REGULATORY SPEED ESTABLISHED WITHIN WORK ZONE TRAVEL WAYS SHALL BE 35 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE STANDARD INDEXES.

10. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

11. CONTRACTOR SHALL REMOVE, RELOCATE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

12. THE CONTRACTOR SHALL NOT PROPOSE AN ALTERNATIVE TRAFFIC CONTROL PLAN THAT REDUCES THE NUMBER OF TRAVEL LANES SHOWN ON THE CONTRACT TRAFFIC CONTROL PLAN.

13. ARROWS ON THE TCP DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.

14. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

16. TWO CONSTRUCTION INFORMATION SIGNS ARE REQUIRED FOR THIS PROJECT. COST OF THE SIGNS ARE INCLUDED IN THE PAY ITEM 102-1 - MAINTENANCE OF TRAFFIC.

DROP OFFS:

17. FOR DROP OFFS, THE CONTRACTOR'S ATTENTION IS DIRECTED TO STANDARD INDEX NO. 600, SHEET 6 OF 10. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.

MARKINGS:

17. COST OF REMOVAL OF WORK ZONE PAVEMENT MARKINGS (INCLUDING PAINT, REMOVABLE TAPE AND MARKERS), REGARDLESS OF METHOD, TO BE INCLUDED IN THE RELATED PAVEMENT MARKING/MARKERS PAY ITEMS. COST OF REMOVAL OF PAVEMENT MARKINGS AND MARKERS, EXISTING PRIOR TO CONSTRUCTION, TO BE INCLUDED IN MAINTENANCE OF TRAFFIC, LS. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED. GRINDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS.

18. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2 - 4 FT SKIP LINES WILL BE PLACED.

19. ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER.

20. TEMPORARY RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON THE EDGE, CENTER, AND LANE LINES OF ALL CROSSOVERS, TRANSITIONS, AND TANGENT SECTIONS WITHIN THE WORK ZONE WHERE THE VEHICLE PATHS ARE ALTERED. THE SPACING FOR THESE RPMS SHALL BE 40 FT ON CENTERS FOR TANGENT SECTIONS AND 5 FT FOR TRANSITIONS, CURVES, AND CROSSOVERS. THE RPMS SHALL EXTEND 100 FT ON THE TANGENT SECTION BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN PAY ITEM 102-78, TEMPORARY REFLECTIVE PAVEMENT MARKER.

WORK ZONE LIMITS:

21. THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO ARTICLE 102- 5.5 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

22. THE WORK ZONE FOR A PAVING OPERATION SHALL NOT BE MORE THAN 0.5 MILES. ALL MILLED ROADWAY SURFACE SHALL BE PAVED PRIOR TO OPENING TO TRAFFIC.

INTERSECTIONS:

23. ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER.

24. INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL THE STRUCTURAL COURSE IS PLACED.

25. M.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE SP ASPHALT CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL AND WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:

26. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

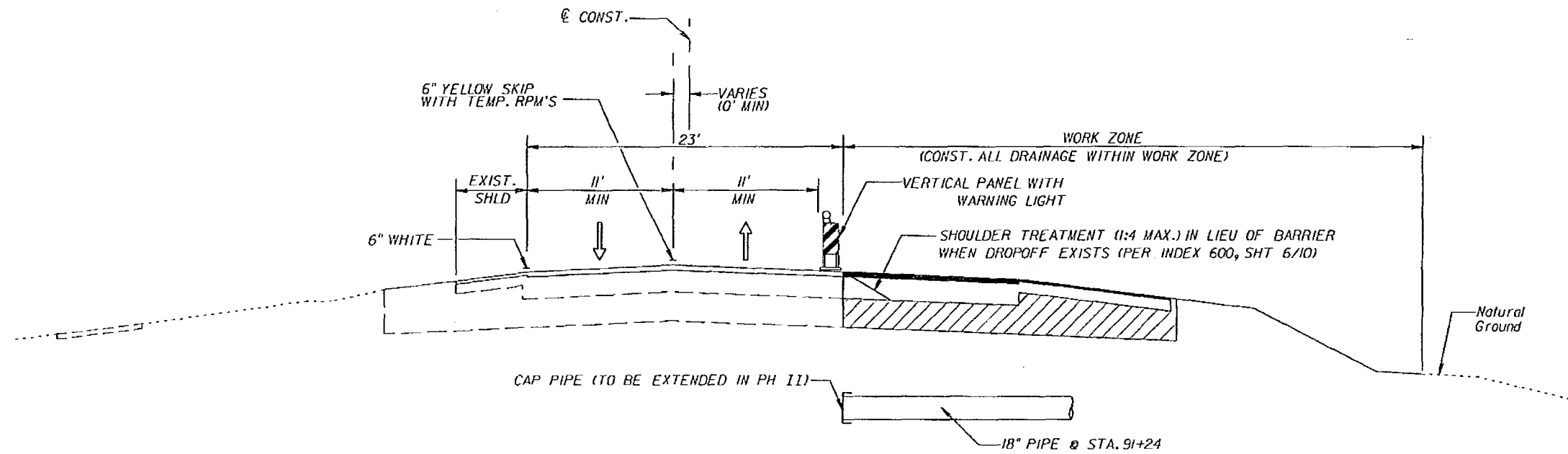
27. EXISTING PEDESTRIAN AND BICYCLE TRAFFIC SHALL BE MAINTAINED ON THE LEFT SIDE WHILE THE RIGHT SIDE OF THE ROADWAY IS CONSTRUCTED. AFTER ITS CONSTRUCTED AND BEFORE PHASE II, BIKE LANE ON THE RIGHT SIDE OF THE ROADWAY SHALL BE OPEN AND REMAIN OPEN FOR THE DURATION OF CONSTRUCTION.

LIGHTING:

28. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING SYSTEM FOR THE DURATION OF THE PROJECT. THIS WILL INCLUDE BUT NOT BE LIMITED TO ROUTINE MAINTENANCE OF AND REPLACEMENTS RESULTING FROM ANY DAMAGE BY THE CONTRACTOR OR HIS SUBCONTRACTORS TO LUMINARIES, FUSES, BALLAST, POLES, BASES, OR ANY INCIDENTAL PARTS. COST TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOVEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 68
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR-5	MONROE	405582-8-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 69J5-23.003, F.A.C.



PHASE I
 SR-5 (US 1)
 STA. 74+25.00 TO STA. 135+00.00

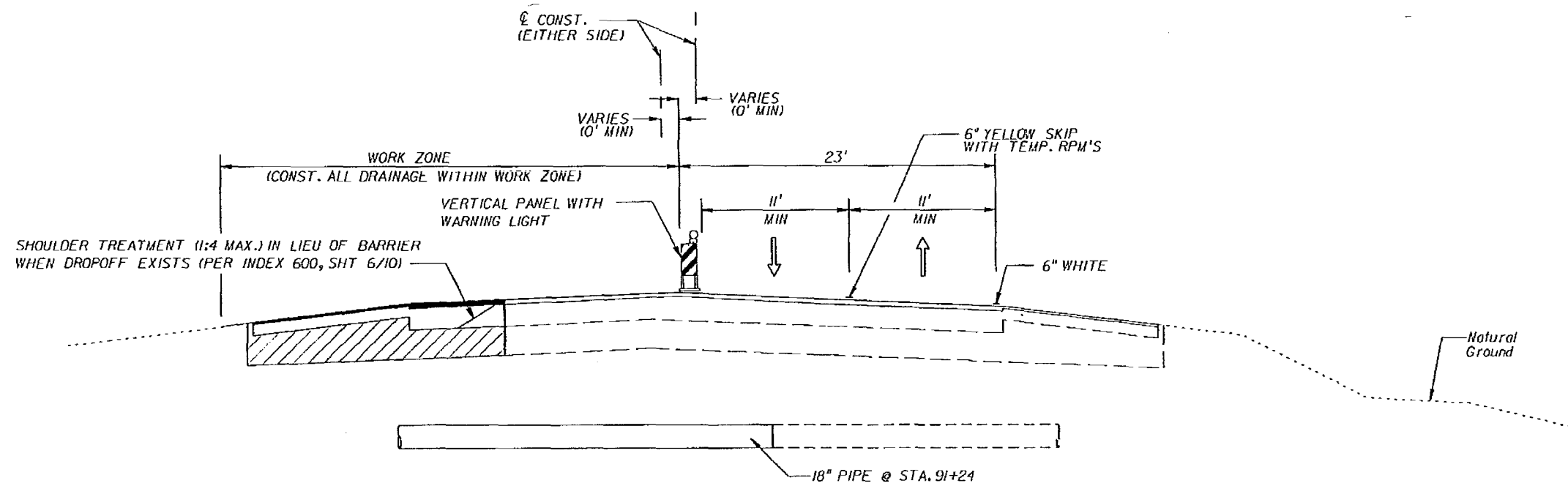
PHASE I

1. USING STANDARD INDEX 602, INSTALL CONSTRUCTION SIGNS AND BARRICADES AT BEGIN AND END CONSTRUCTION LIMITS. PLACE TEMP. PAVEMENT MARKINGS & BARRICADES ON NORTHBOUND LANES ALIGNED IN SUCH A WAY AS TO SHIFT TRAFFIC TO CREATE THE WORK ZONE. THEN SHIFT TRAFFIC AWAY FROM WORK ZONE.
2. CONSTRUCT WIDENING AND SHOULDER (NEW CONSTRUCTION OR RECONSTRUCTION), MILLING & RESURFACING, DRAINAGE, LIGHTING AND BARRIER WALL.
3. DO NOT PLACE FRICTION COURSE.

WORK ZONE REGULATORY SPEED= 35 MPH

REVISIONS						BOLTON, PEREZ & ASSOCIATES 7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CONTROL PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		69
							SR-5	MONROE	405582-8-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.



PHASE II
SR-5 (US 1)
STA. 74+25.00 TO STA. 135+00.00

PHASE II

1. USING STANDARD INDEX 602, INSTALL CONSTRUCTION SIGNS AND BARRICADES AT BEGIN AND END CONSTRUCTION LIMITS. PLACE TEMP. PAVEMENT MARKINGS & BARRICADES ON SOUTHBOUND LANES AND SHIFT TRAFFIC AWAY FROM WORK ZONE.
2. CONSTRUCT WIDENING AND SHOULDER (NEW CONSTRUCTION OR RECONSTRUCTION), MILLING & RESURFACING, CONDUITS & SIGNAL CABLE AND DRAINAGE.
3. DO NOT PLACE FRICTION COURSE.
4. SHIFT TRAFFIC WHERE POSSIBLE TO MILL & RESURFACE AND OVERBUILD FOR CROSS SLOPE CORRECTION ON REMAINING PORTION OF EXISTING ROADWAY. WHERE TRAFFIC SHIFT IS NOT POSSIBLE DUE TO NARROW PAVEMENT, MILL & RESURFACING, ONE LANE AT A TIME USING INDEX 603 (OFF-PEAK HOURS ONLY)

PHASE III

1. USING STANDARD INDEX 602, 608 AND/OR 616 AS APPLICABLE, CONSTRUCT FRICTION COURSE ONE LANE AT A TIME.
2. PLACE FINAL PAVEMENT MARKINGS & RPM'S.

WORK ZONE REGULATORY SPEED= 35 MPH

REVISIONS						BOLTON, PEREZ & ASSOCIATES <small>7205 CORPORATE CENTER DRIVE, SUITE 201 MIAMI, FLORIDA 33126 CERTIFICATE OF AUTHORIZATION 7904 P.E. LICENSE NUMBER 43956 FERNANDO V. GOMEZ, P.E.</small>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CONTROL PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		70
						SR-5	MONROE	405582-8-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

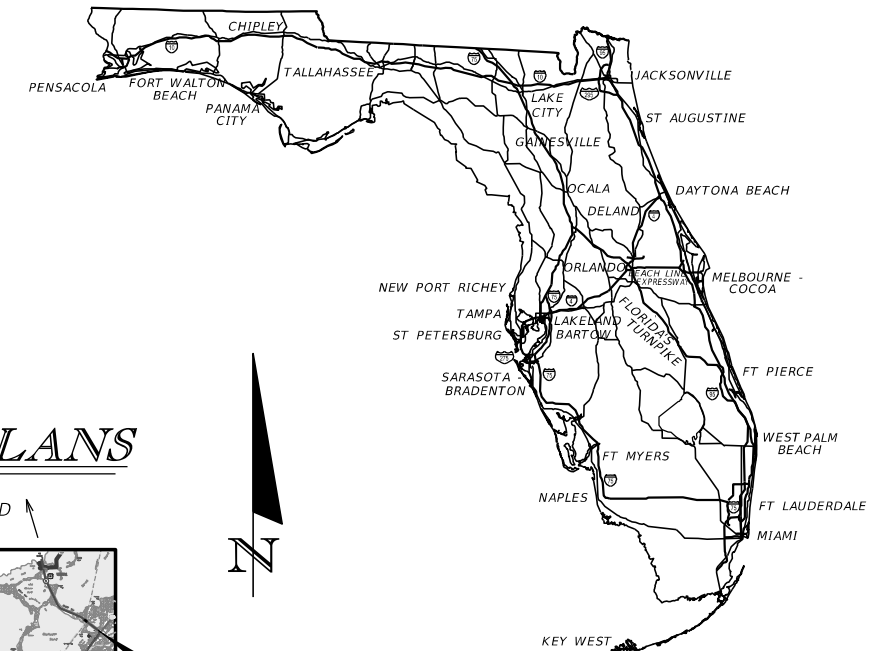
CONTRACT PLANS

FINANCIAL PROJECT ID 444920-1-52-01
(FEDERAL FUNDS)

MONROE COUNTY (90010, 90020,
90040, 90050, 90060, 90003)

STATE ROADS NO. 5, NO. A1A
SR 5/US-1/WHITEHEAD ST./TRUMAN AVE./N ROOSEVELT BLVD/
OVERSEAS HIGHWAY FROM FLEMING ST. TO CR 905, AND
SR A1A/S ROOSEVELT BLVD AT FLAGLER AVE.

INTELLIGENT TRANSPORTATION SYSTEMS PLANS

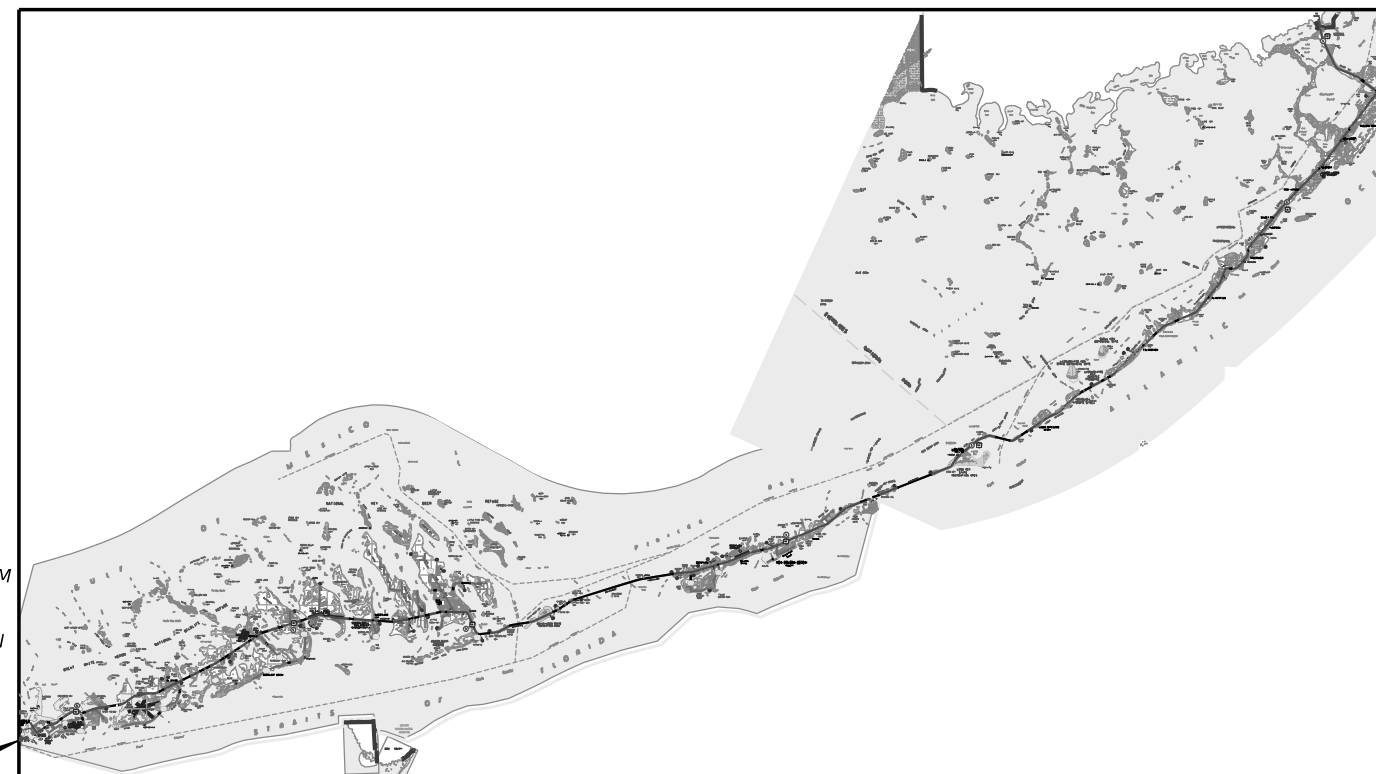


END PROJECT

LOCATION OF PROJECT
<https://goo.gl/maps/8YS8mu7KKuqwsz9Q7>

INDEX OF ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	SIGNATURE SHEET
IT-3 - IT-10	TABULATION OF QUANTITIES
IT-11 - IT-12	GENERAL NOTES
IT-13	SUMMARY OF DEVICES
IT-14 - IT-16	PROJECT LAYOUT
IT-17 - IT-48	ITS PLANS
T-49 - T-50	SIGNALIZATION PLANS
IT-51 - IT-70	ITS PLANS
IT-71	LANE-BY-LANE DETECTION CONFIGURATION - VIDEO 1
IT-72	LANE-BY-LANE DETECTION CONFIGURATION - VIDEO 2
IT-73	LANE-BY-LANE DETECTION CONFIGURATION - LOOPS
IT-74 - IT-75	332 CABINET DETECTION INPUT ASSIGNMENTS
IT-76 - IT-79	RSU MOUNTING DETAILS
IT-80 - IT-81	CCTV MOUNTING DETAILS
IT-82	CCTV & RSU MOUNTING DETAILS
IT-83	VVDS MOUNTING DETAIL
IT-84	SNAKE CREEK DRAWBRIDGE TENDER'S HOUSE DETAILS
IT-85	WEIGH STATION DETAILS
IT-86 - IT-87	LOOP DETAILS
IT-88	LOOP DETAILS NEAR MANHOLES
IT-89	332 & 366 CABINET DETAILS
IT-90 - IT-99	WIRING DIAGRAMS
IT-100 - IT-101	ETHERNET SWITCH DETAILS
IT-102	ATMS DIAGRAM
IT-103	NETWORK DIAGRAM
IT-104	SNAKE CREEK BRIDGE WIRING DIAGRAM
IT-105	WIM STATION WIRING DIAGRAM
IT-106 - IT-107	STORM WATER POLLUTION PREVENTION PLAN
IT-108	SUMMARY OF PAY ITEMS



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2021 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

INTELLIGENT TRANSPORTATION SYSTEMS PLANS

ENGINEER OF RECORD:

ERIK ALEXANDER ECHEZABAL, P.E.
P.E. NO.: 82215
CHOICE ENGINEERING CONSULTANTS, INC.
12855 SW. 132nd STREET, SUITE 200
MIAMI, FL 33186
CONTRACT NO.: CAD94
VENDOR NO.: F473395906

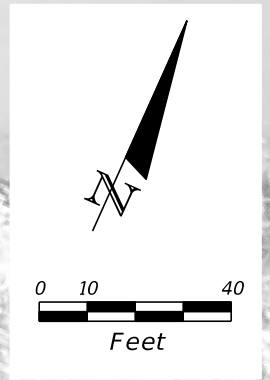
FDOT PROJECT MANAGER:

YAMILET DIAZ, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
E6M58	21	IT-1

FLORIDA KEYS NATIONAL MARINE SANCTUARY
(OUTSTANDING FLORIDA WATER)

EXIST. R/W



DRAWBRIDGE SIGNAL

SR 5/US-1/OVERSEAS HWY

F&I NEMA ENCLOSURE ON DRAWBRIDGE TENDER'S HOUSE EXTERIOR. F&I WIRELESS COMMUNICATION MODEM AND MFES WITH BUILT-IN POE INJECTOR. CONNECT MFES TO CELLULAR MODEM FOR COMMUNICATION WITH RTMC. INTERCEPT BRIDGE INTERFACE CABLES WITH EXISTING ITS MASTER RADIO WITH CONTACT CLOSURE AND CONNECT TO RSU.

SEE SNAKE CREEK DRAWBRIDGE TENDER'S HOUSE DETAILS ON SHEET IT-84.

EXIST. OMNIDIRECTIONAL ANTENNA FOR COMMUNICATION WITH REMOTE W3-4 FLASHING BEACON ASSEMBLIES.

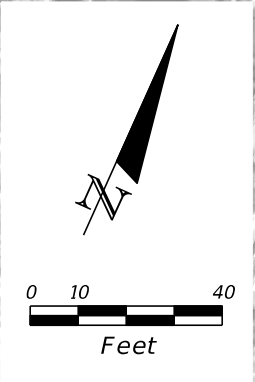
F&I RSU ON DRAWBRIDGE TENDER'S HOUSE EXTERIOR.

EXIST. R/W

633-8-1	30 LF	684-1-1	1 EA
676-3-10	1 EA	684-6-30	1 EA
681-1	1 EA		

SR 5/US-1/OVERSEAS HIGHWAY
AT DRAWBRIDGE TENDER'S HOUSE
(MM 85.74)

REVISIONS				ERIK ALEXANDER ECHEZABAL, P.E. P.E. NO.: 82215 CHOICE ENGINEERING CONSULTANTS, INC. 12855 SW 132nd STREET, SUITE 200 MIAMI, FL 33186	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-56
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 5	MONROE	444920-1-52-01	



SR 5/US-1/OVERSEAS HWY

FLORIDA KEYS OVERSEAS HERITAGE TRAIL

HARDWOOD FOREST WETLANDS

EXIST. R/W

EXIST. R/W

ACCESS EXIST. PULL BOX FOR PROPOSED CABLE ROUTING.

F&I RSU. F&I NEMA RATED ENCLOSURE AT SIGN SUPPORT STRUCTURE WITH MEDIA CONVERTER CONNECT TO RSU. UTILIZE EXIST. CONDUIT FOR CABLE ROUTING.

570-1-2	60 SY	633-3-17	1 EA
630-2-14	16 LF	633-8-1	30 LF
633-1-121	890 LF	635-3-11	1 EA
633-2-31	12 EA	676-3-10	1 EA
633-3-12	1 EA	681-1	1 EA
633-3-13	12 EA	684-5-1	1 EA
633-3-16	1 EA		

SR 5/US-1/OVERSEAS HIGHWAY
AT DRAWBRIDGE SIGNAL NORTH (MM 85.93)
& WEIGH IN MOTION SIGN SOUTH (MM 85.99)

REVISIONS				ERIK ALEXANDER ECHEZABAL, P.E. P.E. NO.: 82215 CHOICE ENGINEERING CONSULTANTS, INC. 12855 SW 132nd STREET, SUITE 200 MIAMI, FL 33186	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-57
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 5	MONROE	444920-1-52-01	

ITS PLAN

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SR 5/US-1/OVERSEAS HIGHWAY AT PLANTATION KEY WEIGH STATION (MM 86.17)

REVISIONS				ERIK ALEXANDER ECHEZABAL, P.E. P.E. NO.: 82215 CHOICE ENGINEERING CONSULTANTS, INC. 12855 SW 132nd STREET, SUITE 200 MIAMI, FL 33186	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-58
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 5	MONROE	444920-1-52-01	

ITS PLAN

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE:
684-6-13: INCLUDES COST OF PROPOSED WIRELESS RADIO SYSTEM FOR COMMUNICATION WITH THE PLANTATION KEY WIM STATION SITE.

570-1-2	60 SY	676-2-500	1 EA
630-2-14	8 LF	681-1	1 EA
633-8-1	175 LF	684-6-13	1 EA

SR 5/US-1/OVERSEAS HIGHWAY
AT WEIGH IN MOTION SIGN NORTH
(MM 86.55)

REVISIONS				ERIK ALEXANDER ECHEZABAL, P.E. P.E. NO.: 82215 CHOICE ENGINEERING CONSULTANTS, INC. 12855 SW 132nd STREET, SUITE 200 MIAMI, FL 33186	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. ITS PLAN IT-59
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 5	MONROE	444920-1-52-01	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3 - 8	DRAINAGE MAP
9 - 11	TYPICAL SECTIONS
12 - 13	TYPICAL SECTION DETAILS
14	CROSS SLOPE CORRECTION DETAILS
15 - 16	MODEL MANAGEMENT
17 - 18	PROJECT CONTROL
19	GENERAL NOTES
20 - 48	ROADWAY PLAN
49 - 95	DRAINAGE STRUCTURES
96	OPTIONAL MATERIALS TABULATION
97	UTILITY CONFLICTS
98 - 99	C-I-P RETAINING WALL
100	C-I-P RETAINING WALL DETAILS
101	C-I-P CANTILEVER RETAINING WALL TABLES AND NOTES
102 - 132	STORMWATER POLLUTION PREVENTION PLAN
133 - 136	TEMPORARY TRAFFIC CONTROL PLANS
137 - 165	TREE DISPOSITION PLAN
166 - 173	TREE DISPOSITION CHART
GR-1*	ROADWAY SOIL SURVEY
GR-2 - GR-6*	SOIL PROFILES

* These sheets are included in the Index of Roadway Plans only to indicate that they are part of the Roadway Plans. These sheets are contained in a separate digitally signed and sealed document.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: IR - -

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, 2023-24 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

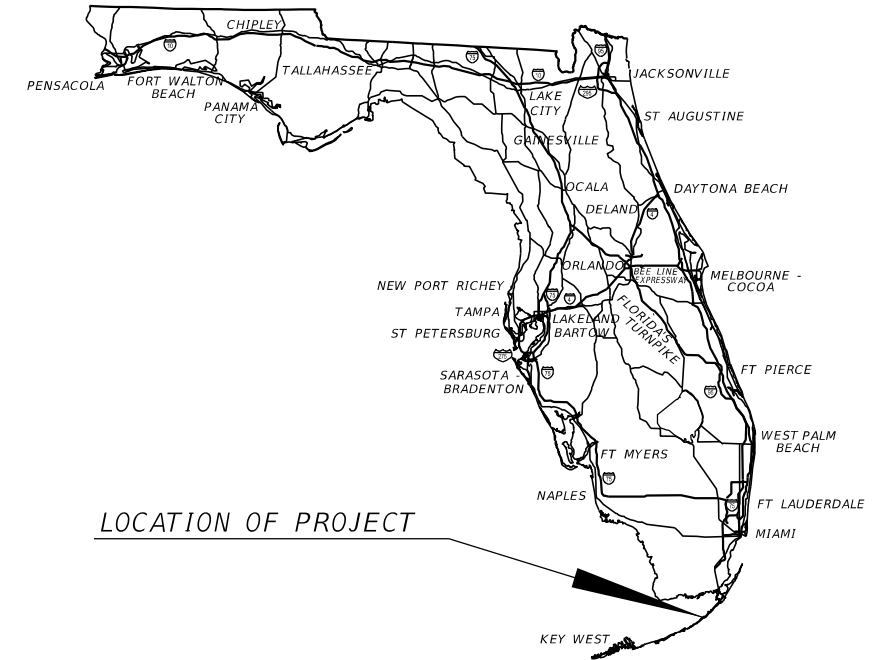
ROADWAY PLANS

FINANCIAL PROJECT ID 447810-1-52-01
(FEDERAL FUNDS)

MONROE COUNTY (90060)

STATE ROAD NO. 5 / US-1 (OVERSEAS HWY)
FROM MM 87.14 TO MM 90.16 (PLANTATION KEY)

PROJECT LOCATION URL: <https://tinyurl.com/mtnfh44p>
PROJECT LIMITS: BEGIN MP 13.396 - END MP 16.412
EXCEPTIONS: NONE
BRIDGE LIMITS: NONE
RAILROAD CROSSING: NONE



LOCATION OF PROJECT

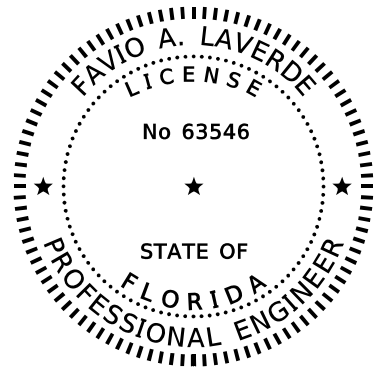
**ROADWAY PLANS
ENGINEER OF RECORD:**

FAVIO A. LAVERDE, P.E.
P.E. LICENSE NUMBER 63546
TRACE CONSULTANTS, INC.
8900 SW 117 AVENUE, SUITE 105B
MIAMI, FLORIDA 33186
CONTRACT NO.: CAK77
VENDOR NO.: F455418595

FDOT PROJECT MANAGER:

HUMBERTO GOMEZ, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	27	1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

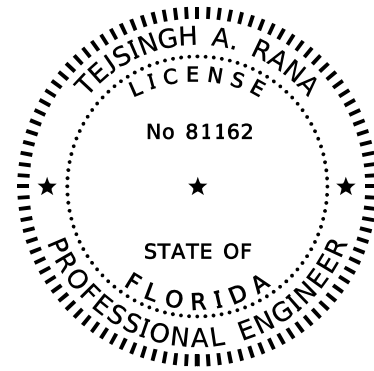
ON THE DATE ADJACENT TO THE SEAL

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TRACE CONSULTANTS, INC.
8900 SW 117TH AVENUE, SUITE 105B
MIAMI, FLORIDA 33186
FAVIO A. LAVERDE, P.E. NO. 63546

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET No.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
9 - 11	TYPICAL SECTIONS
12 - 13	TYPICAL SECTION DETAILS
14	CROSS SLOPE CORRECTION DETAILS
15 - 16	MODEL MANAGEMENT
17 - 18	PROJECT CONTROL
19	GENERAL NOTES
20 - 48	ROADWAY PLAN



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

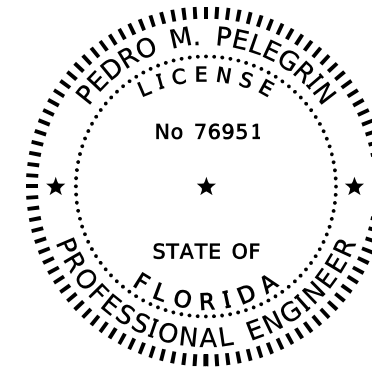
ON THE DATE ADJACENT TO THE SEAL

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HIGHWAY STUDIO, LLC
7800 SW 133RD STREET
PINECREST, FL 33156
TEJSINGH A. RANA, P.E. NO. 81162

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET No.	SHEET DESCRIPTION
2	SIGNATURE SHEET
133 - 136	TEMPORARY TRAFFIC CONTROL PLANS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

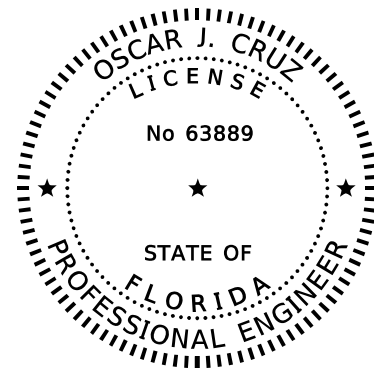
ON THE DATE ADJACENT TO THE SEAL

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RS&H, INC.
6303 BLUE LAGOON DRIVE, SUITE 325
MIAMI, FL 33126
PEDRO M. PELEGRIN, P.E. NO. 76951

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET No.	SHEET DESCRIPTION
2	SIGNATURE SHEET
3 - 8	DRAINAGE MAP
49 - 95	DRAINAGE STRUCTURES
96	OPTIONAL MATERIALS TABLE
97	UTILITY CONFLICTS
102 - 132	STORMWATER POLLUTION PREVENTION PLAN



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

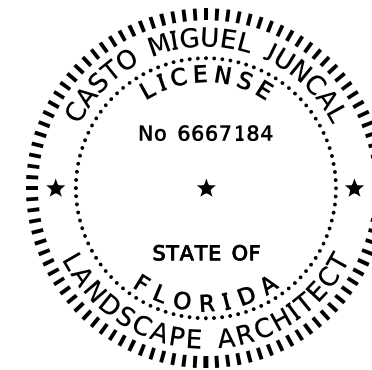
ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CHROME ENGINEERING, INC.
16650 SW 88TH STREET, SUITE 205
MIAMI, FL 33196
OSCAR J. CRUZ, P.E. NO. 63889

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET No.	SHEET DESCRIPTION
2	SIGNATURE SHEET
98 - 99	C-I-P RETAINING WALL
100	C-I-P RETAINING WALL DETAILS
101	C-I-P CANTILEVER RETAINING WALL TABLES AND NOTES



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

MILLER LEGG
5747 NORTH ANDREWS WAY
FORT LAUDERDALE, FL 33309
CASTO MIGUEL JUNCAL, L.A. NO. 6667184

THE ABOVE NAMED REGISTERED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

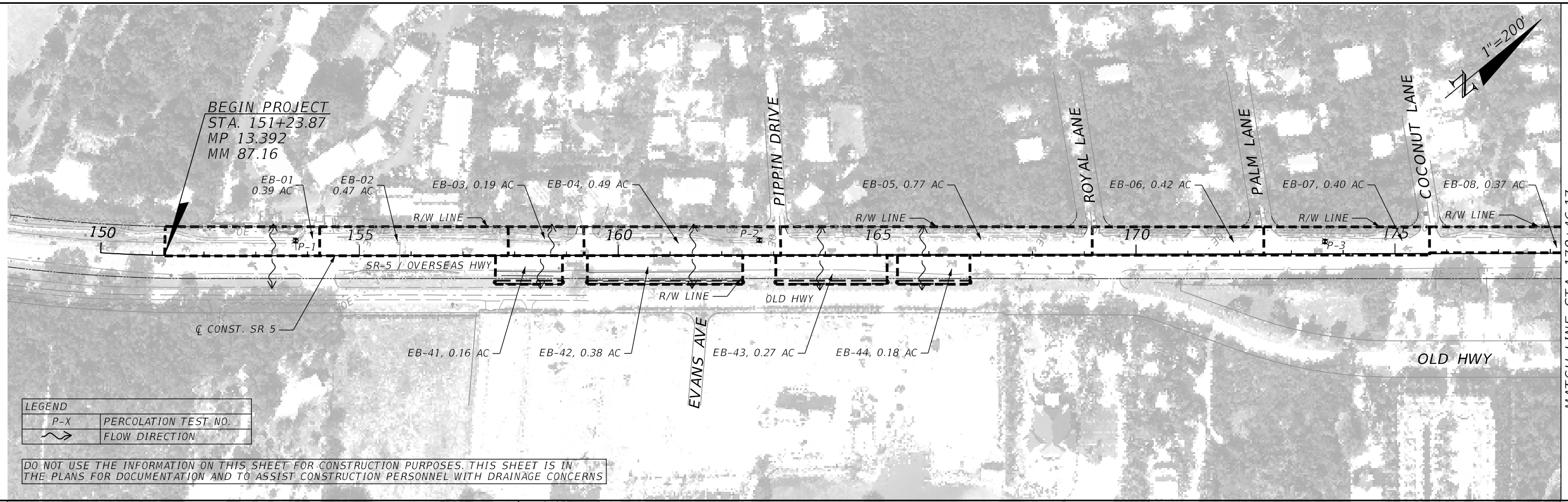
SHEET No.	SHEET DESCRIPTION
2	SIGNATURE SHEET
137 - 165	TREE DISPOSITION PLAN
166 - 173	TREE DISPOSITION CHART

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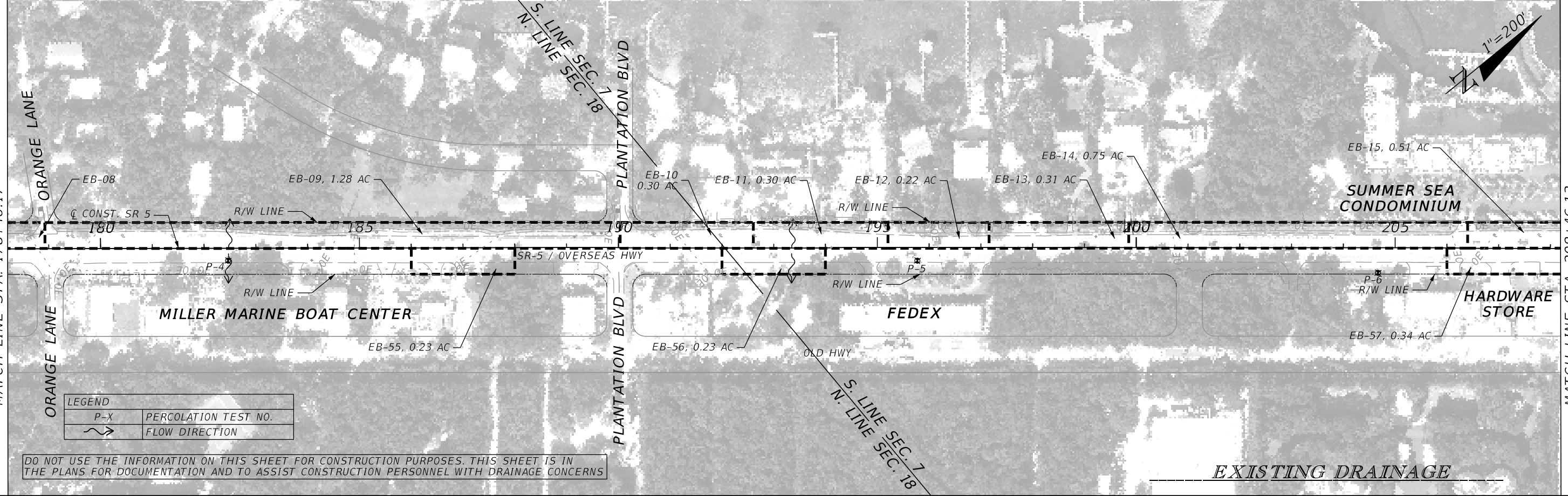
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-152-01	
SIGNATURE SHEET									2



MATCH LINE STA. 178+46.17



MATCH LINE STA. 208+46.13

EXISTING DRAINAGE

4/20/2023 3:47:30 PM Barahona
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

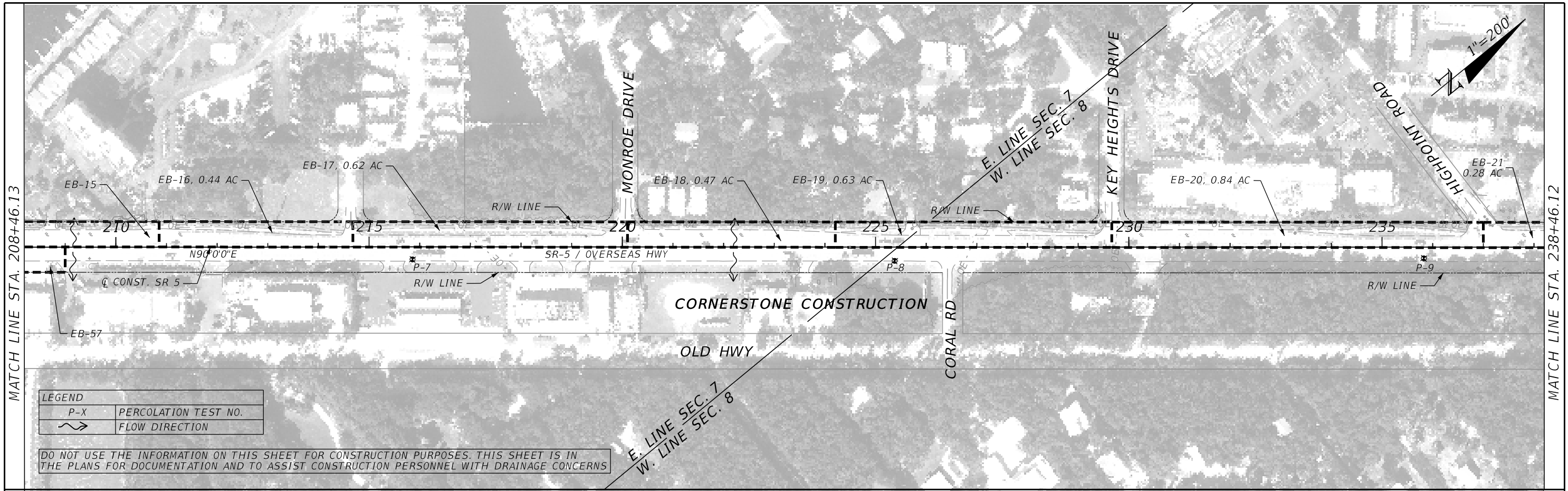
ENGINEER OF RECORD
PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

DRAINAGE MAP

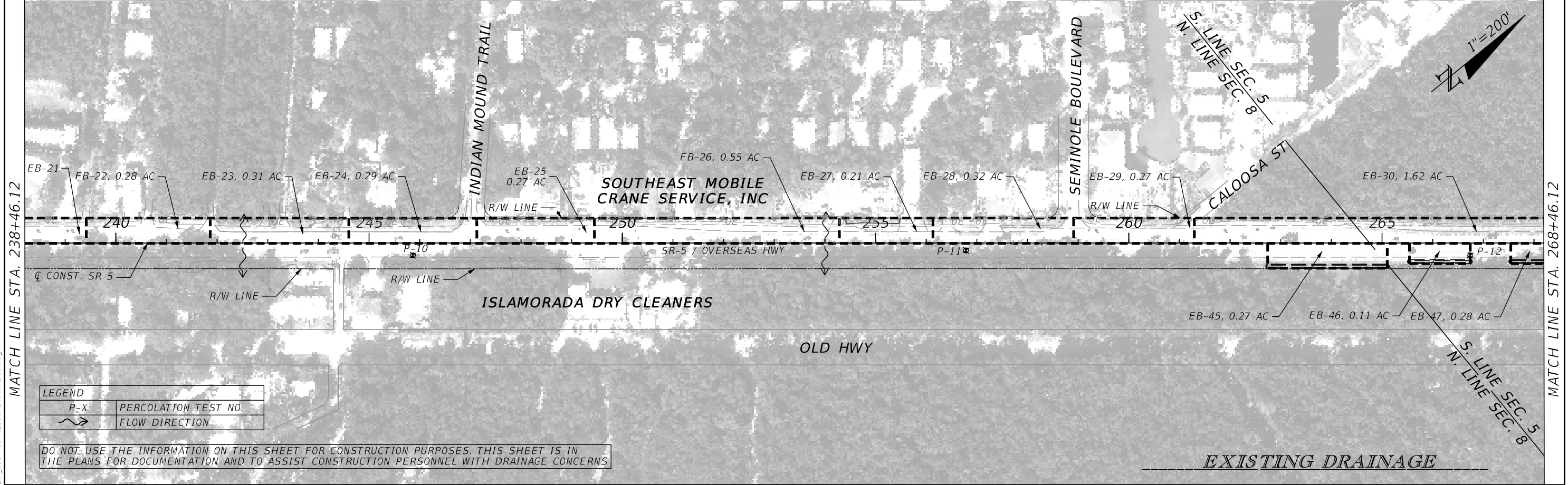
SHEET NO.
3

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LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS



LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS

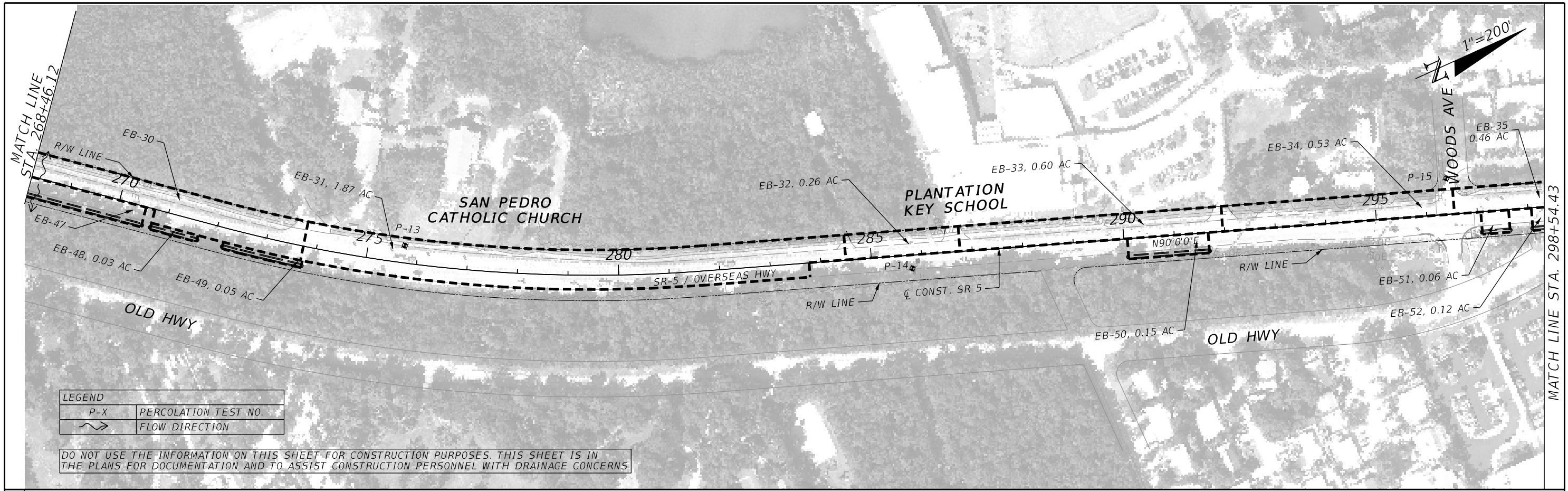
EXISTING DRAINAGE

4/20/2023 3:47:38 PM Barahona c:\pw\work\sh_pw\pw_user\0442396\DRMPRD001.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 4	
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126						

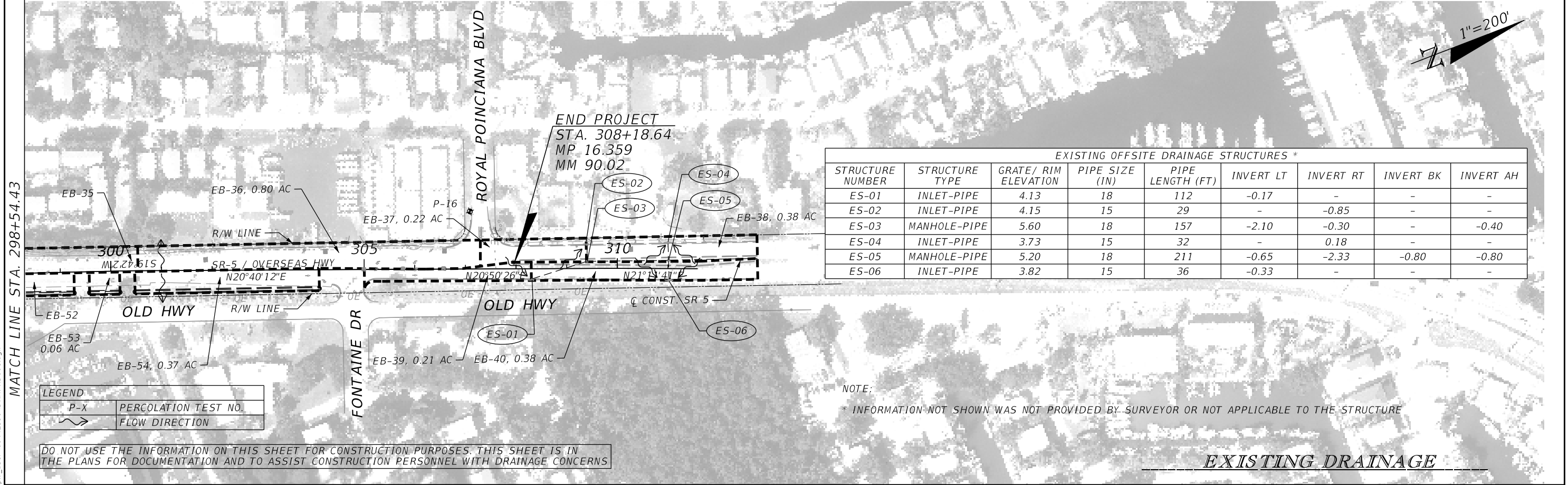
DRAINAGE MAP

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LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS



EXISTING OFFSITE DRAINAGE STRUCTURES *								
STRUCTURE NUMBER	STRUCTURE TYPE	GRATE/ RIM ELEVATION	PIPE SIZE (IN)	PIPE LENGTH (FT)	INVERT LT	INVERT RT	INVERT BK	INVERT AH
ES-01	INLET-PIPE	4.13	18	112	-0.17	-	-	-
ES-02	INLET-PIPE	4.15	15	29	-	-0.85	-	-
ES-03	MANHOLE-PIPE	5.60	18	157	-2.10	-0.30	-	-0.40
ES-04	INLET-PIPE	3.73	15	32	-	0.18	-	-
ES-05	MANHOLE-PIPE	5.20	18	211	-0.65	-2.33	-0.80	-0.80
ES-06	INLET-PIPE	3.82	15	36	-0.33	-	-	-

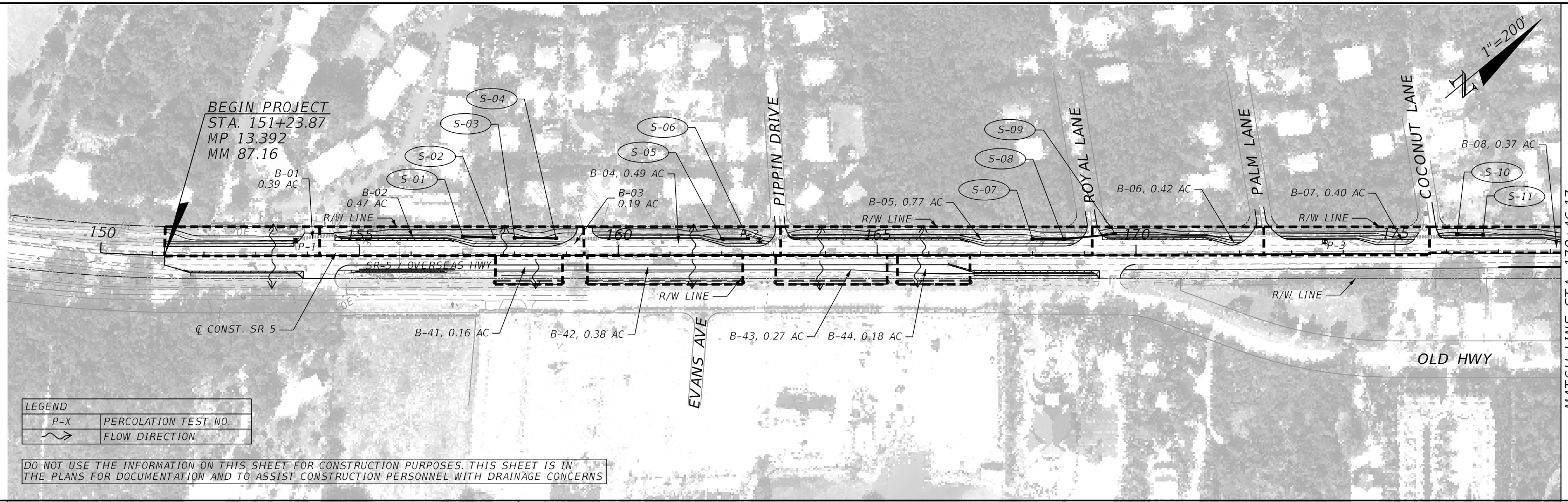
NOTE:
* INFORMATION NOT SHOWN WAS NOT PROVIDED BY SURVEYOR OR NOT APPLICABLE TO THE STRUCTURE

EXISTING DRAINAGE

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE	447810-1-52-01	

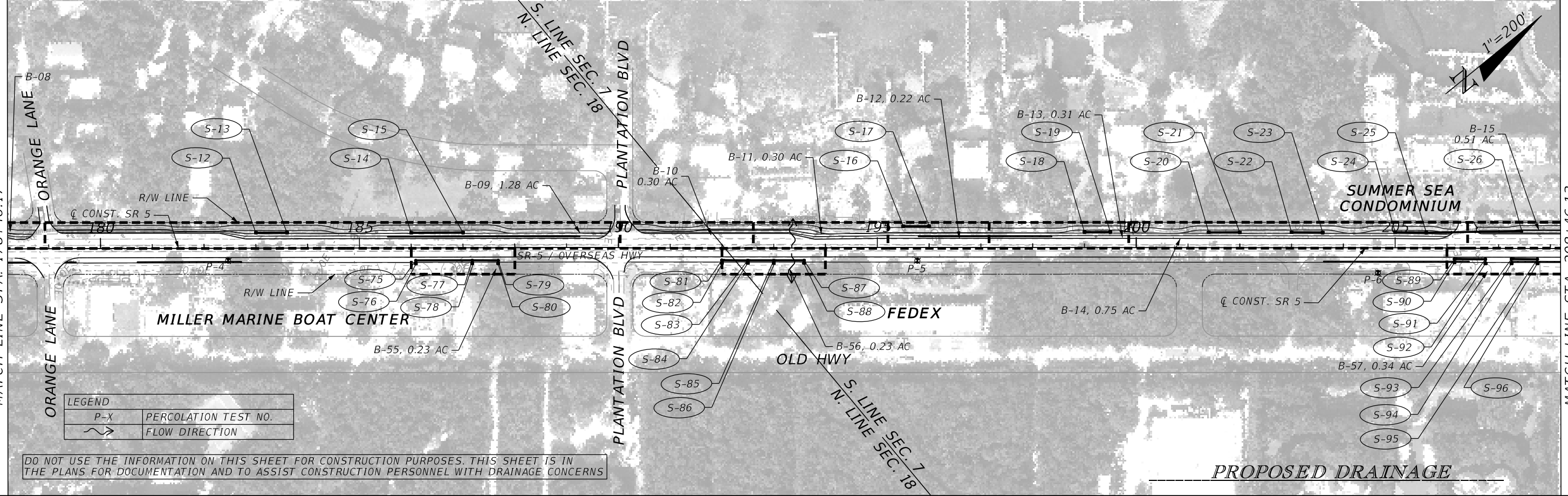
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LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS



LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS

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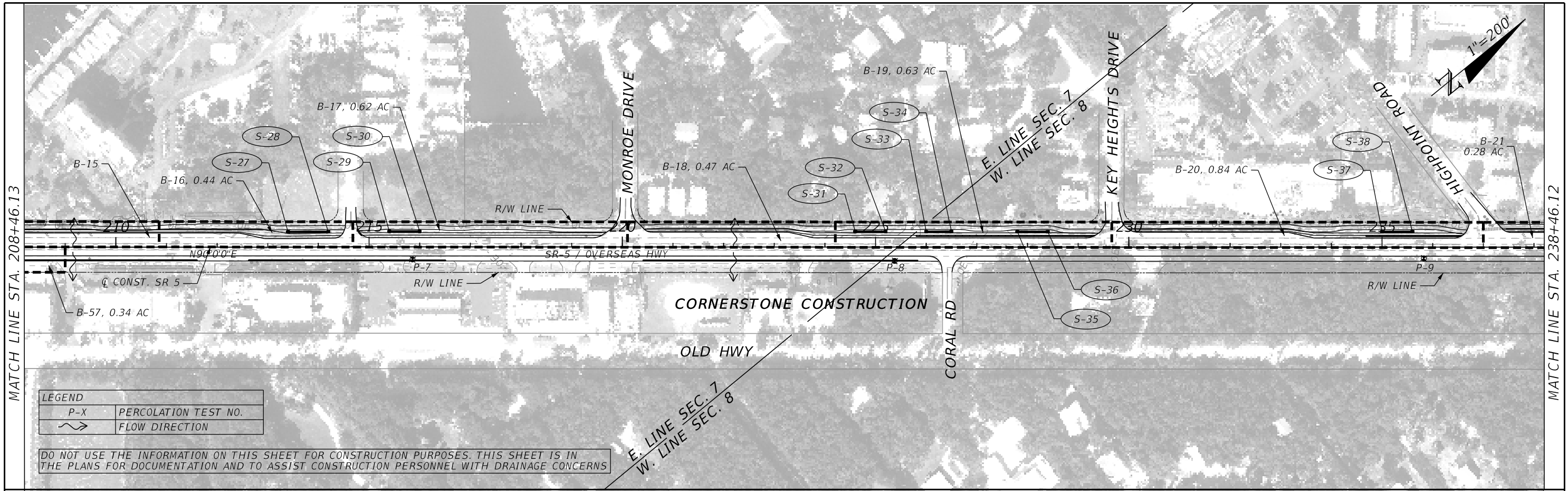
REVISIONS		ENGINEER OF RECORD	
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

DRAINAGE MAP

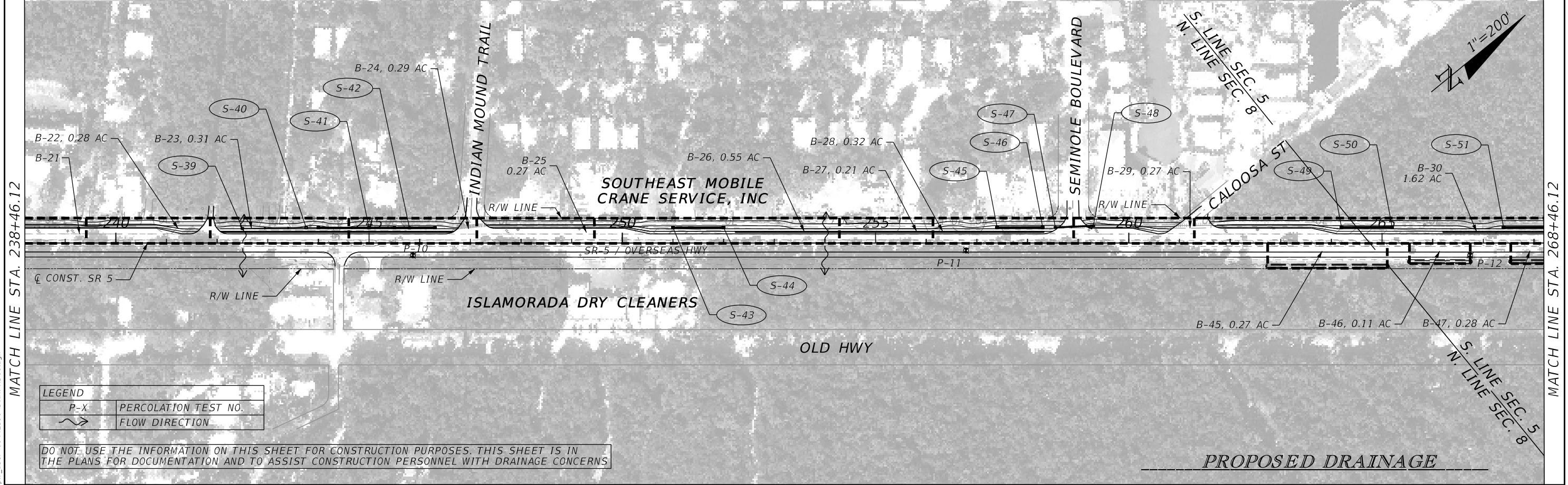
SHEET NO. 6

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LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS



LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

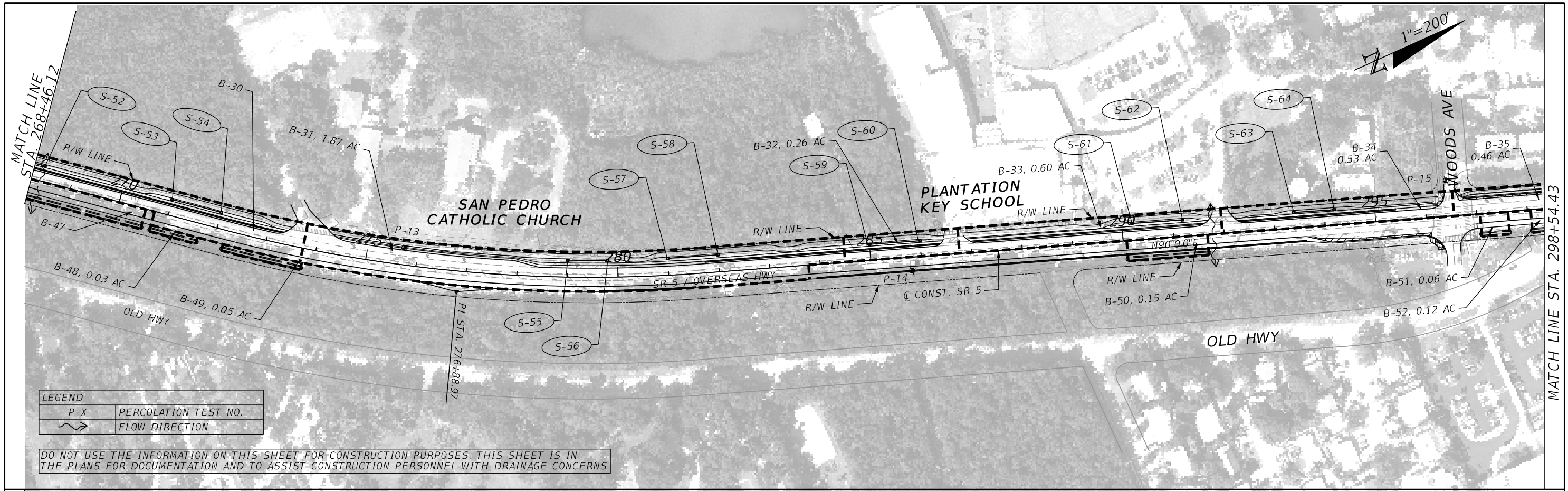
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS

PROPOSED DRAINAGE

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			SR 5	MONROE	447810-152-01	
DRAINAGE MAP										

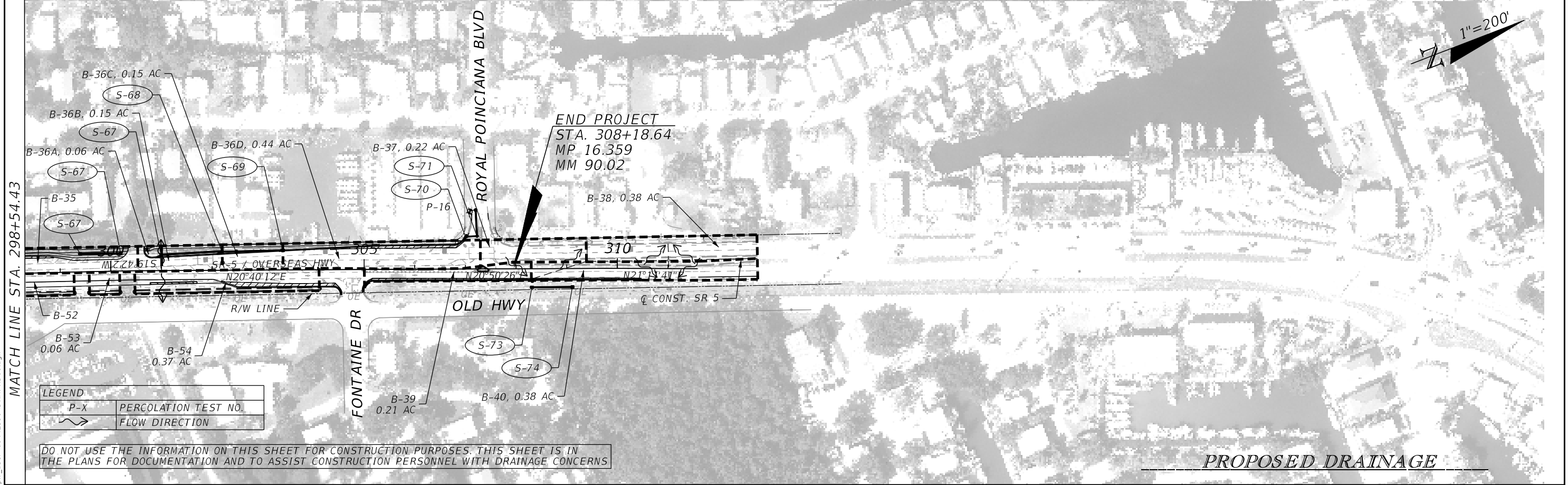
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS



LEGEND	
P-X	PERCOLATION TEST NO.
	FLOW DIRECTION

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS

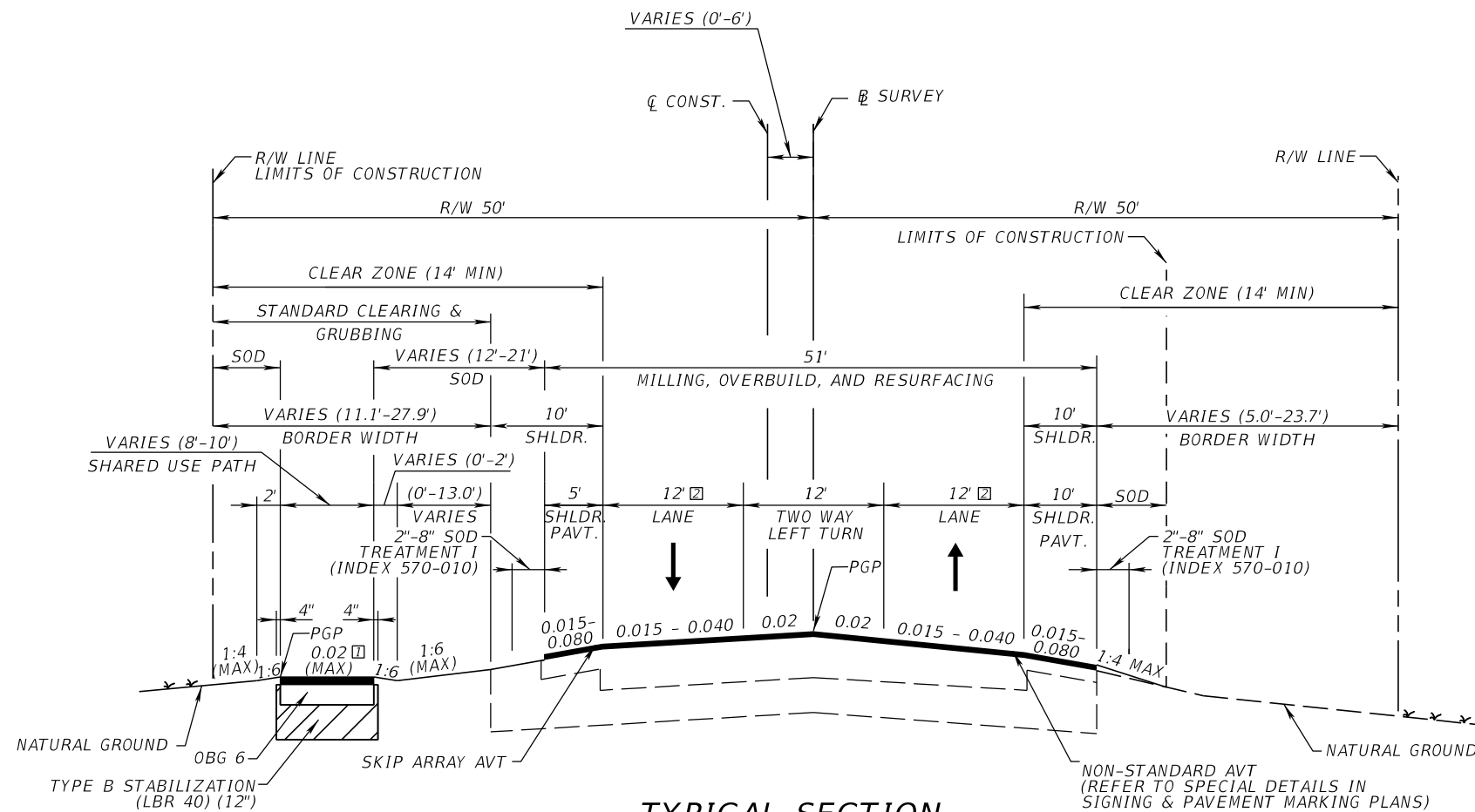
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE	447810-1-52-01	

PROPOSED DRAINAGE

DRAINAGE MAP

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



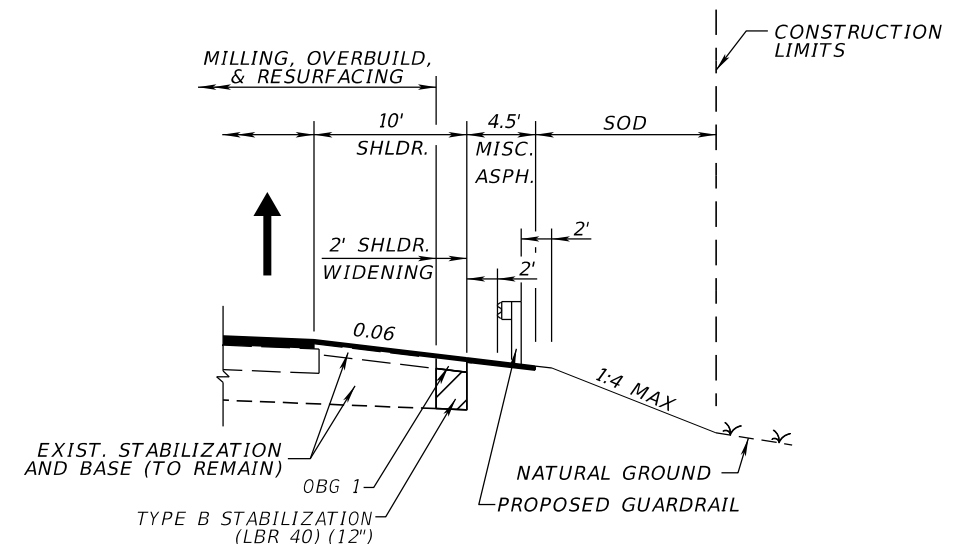
**TYPICAL SECTION
SR 5 / US 1 / OVERSEAS HIGHWAY
STA. 151+23.48 TO STA. 296+80.00**

- LEGEND:**
- 1 REFER TO SHARED USE PATH RECONSTRUCTION DETAILS FOR SLOPE WHEN INSTALLED NEAR UNPAVED SHOULDERS.
 - 2 11' TRAVEL LANES FROM STA. 189+03.93 TO STA. 195+24.23 AND FROM STA. 204+98.54 TO STA. 214+31.87.
 - 3 VARIABLE MILLING (1 3/4" AVG.) ALONG THE TWLTL/LEFT-TURN LANE FROM STA. 154+52.75 TO STA. 268+00.00 (REFER TO VARIABLE MILLING DETAIL).
3" MILLING FROM STA. 151+23.48 TO STA. 151+80.00, AND FROM STA. 295+32.79 TO STA. 296+80.00
 - 4 DESIGN SPEED = 55 MPH FROM STA. 151+23.48 TO STA. 169+55.64.
 - 5 1 1/2" MILLING FROM STA. 151+23.48 TO STA. 151+80.00, AND FROM STA. 295+32.79 TO STA. 296+80.00

TRAFFIC DATA

CURRENT YEAR	= 2019 AADT = 31500
ESTIMATED OPENING YEAR	= 2025 AADT = 33100
ESTIMATED DESIGN YEAR	= 2045 AADT = 46900
K = 9.0%	D = % T = 8.9% (24 HOUR)
DESIGN HOUR T	= 4.45%
DESIGN SPEED	= 45 MPH
CONTEXT CLASSIFICATION	= C3R STA. 151+23.48 TO STA.169+55.64 C4 STA. 169+55.64 TO STA. 296+80.00

- EXISTING TRAVEL LANES**
- MILL EXISTING ASPHALT PAVEMENT (2 1/2" DEPTH)
 - OVERBUILD TYPE SP STRUCTURAL COURSE (TRAFFIC E) (THICKNESS VARIES)
 - TYPE SP STRUCTURAL COURSE (TRAFFIC E) (1 1/2") (PG 76-22)
 - FRICTION COURSE FC-12.5 (TRAFFIC E) (1 1/2") (PG 76-22)
- EXISTING SHOULDER PAVEMENT**
- MILL EXISTING ASPHALT PAVEMENT (1" DEPTH)
 - OVERBUILD TYPE SP STRUCTURAL COURSE (TRAFFIC E) (THICKNESS VARIES)
 - FRICTION COURSE FC-12.5 (TRAFFIC E) (1 1/2") (PG 76-22)
- SHOULDER RECONSTRUCTION/SHOULDER WIDENING**
- OPTIONAL BASE GROUP 1
 - TYPE SP STRUCTURAL COURSE (TRAFFIC E) (1 1/2") (PG 76-22)
 - FRICTION COURSE FC-12.5 (TRAFFIC E) (1 1/2") (PG 76-22)

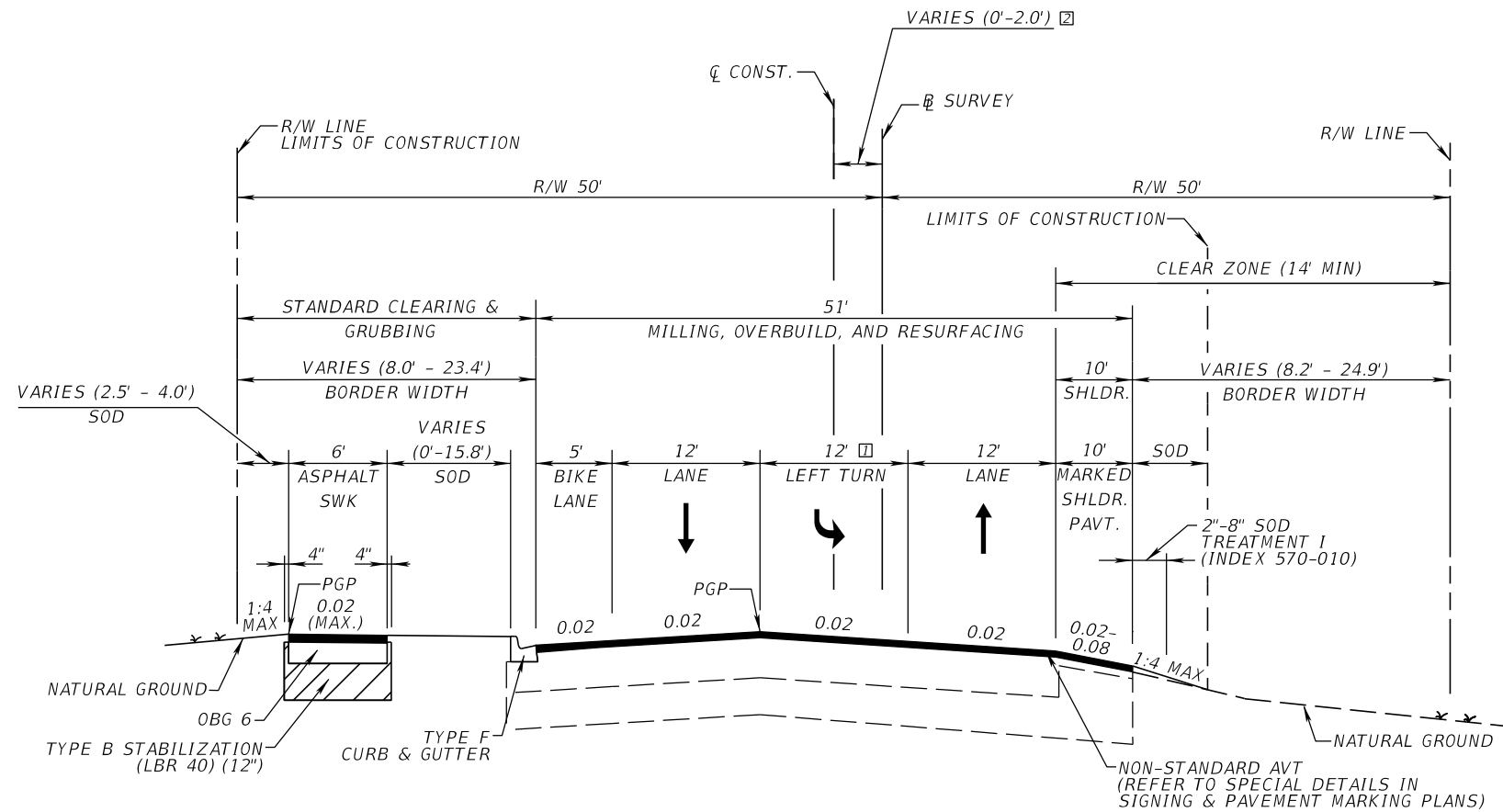


**PROPOSED GUARDRAIL LOCATION DETAIL
STA. 154+94.22 TO STA. 156+63.06**

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8901 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	9
TYPICAL SECTIONS									

4/22/2023 8:35:42 PM jtovar Z:\DOT\Connect\10-10\Workspaces\FDOT\Work\Seis\FDOT\44781015201_Roadway\TYP\SRD01.dgn

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**TYPICAL SECTION
SR 5 / US 1 / OVERSEAS HIGHWAY
STA. 296+80.00 TO STA. 305+31.07**

EXISTING TRAVEL LANES

MILL EXISTING ASPHALT PAVEMENT (2 1/2" DEPTH) [1]
 OVERBUILD TYPE SP STRUCTURAL COURSE (TRAFFIC E) (THICKNESS VARIES)
 TYPE SP STRUCTURAL COURSE (TRAFFIC E) (1 1/2") (PG 76-22)
 FRICTION COURSE FC-12.5 (TRAFFIC E) (1 1/2") (PG 76-22)

EXISTING SHOULDER PAVEMENT

MILL EXISTING ASPHALT PAVEMENT (1" DEPTH) [1]
 OVERBUILD TYPE SP STRUCTURAL COURSE (TRAFFIC E) (THICKNESS VARIES)
 FRICTION COURSE FC-12.5 (TRAFFIC E) (1 1/2") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 31500
 ESTIMATED OPENING YEAR = 2025 AADT = 33100
 ESTIMATED DESIGN YEAR = 2045 AADT = 46900
 K = 9 % D = % T = 8.9% (24 HOUR)
 DESIGN HOUR T = 4.45%
 DESIGN SPEED = 45 MPH
 CONTEXT CLASSIFICATION = C4

LEGEND:

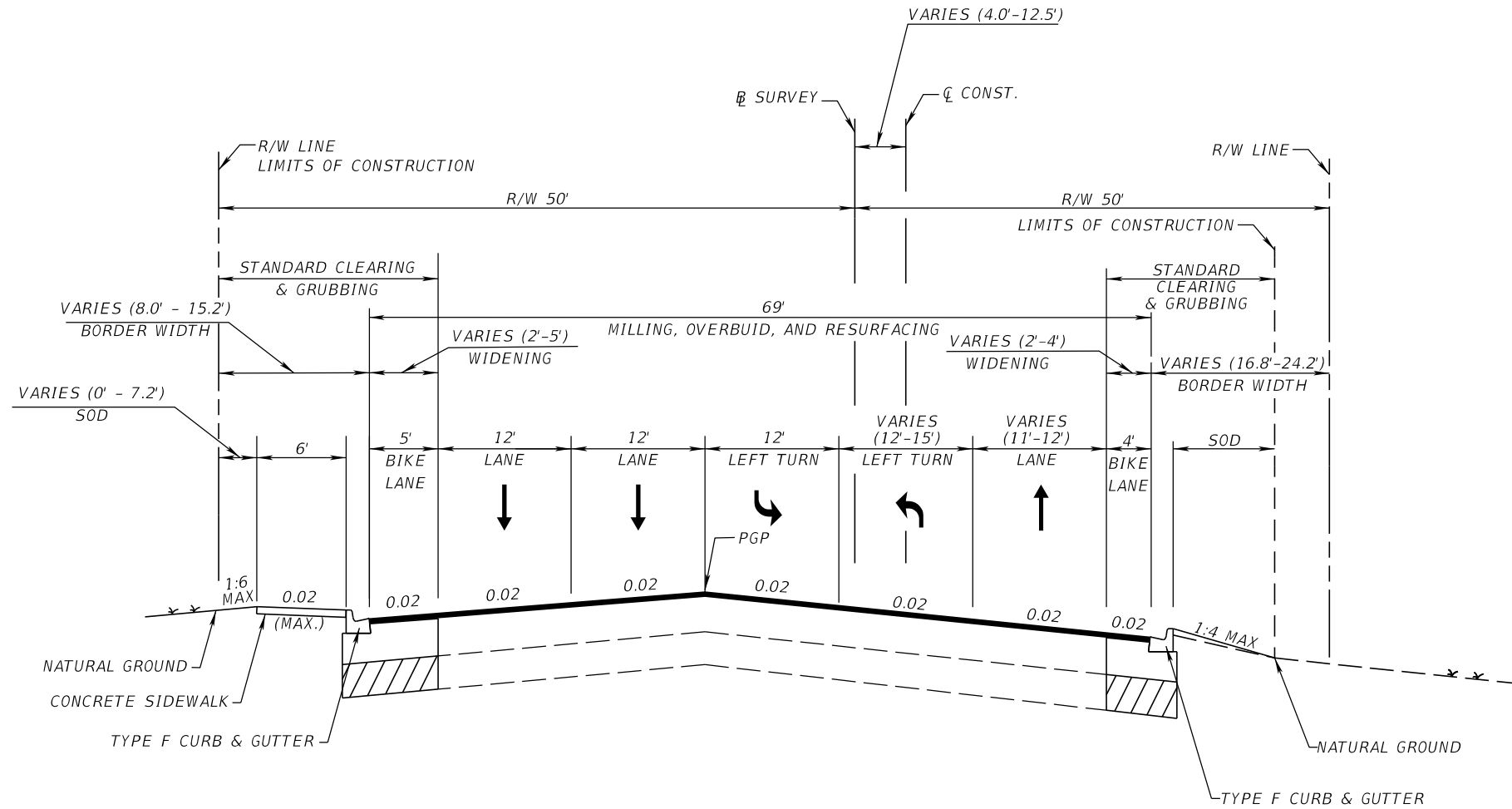
- [1] CHEVRON AREA VARYING IN WIDTH FROM 12' TO 23.5' FROM STA. 299+86.62 TO STA. 304+61.43
- [2] [B] SURVEY VARIES FROM 0' TO 4' FROM THE LEFT OF THE [C] CONSTRUCTION FROM STA. 302+01.59 TO STA. 305+31.07
- [3] 3" MILLING FROM STA. 296+80.00 TO STA. 297+50.00
- [4] 1 1/2" MILLING FROM STA. 296+80.00 TO STA. 297+50.00

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8901 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	10

TYPICAL SECTIONS

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**TYPICAL SECTION
SR-5 / US 1 / OVERSEAS HIGHWAY
STA. 305+31.07 TO STA. 311+03.77**

EXISTING TRAVEL LANES

MILL EXISTING ASPHALT PAVEMENT (2 1/2" DEPTH) □
OVERBUILD TYPE SP STRUCTURAL COURSE (TRAFFIC E) (THICKNESS VARIES)
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (1 1/2") (PG 76-22)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1 1/2") (PG 76-22)

ROADWAY WIDENING

OPTIONAL BASE GROUP 11
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (1 1/2")
TYPE SP STRUCTURAL COURSE (TRAFFIC E) (1 1/2") (PG 76-22)
FRICTION COURSE FC-12.5 (TRAFFIC E) (1 1/2") (PG 76-22)

LEGEND:
□ 3" MILLING FROM STA. 306+76.81 TO STA 310+47.10

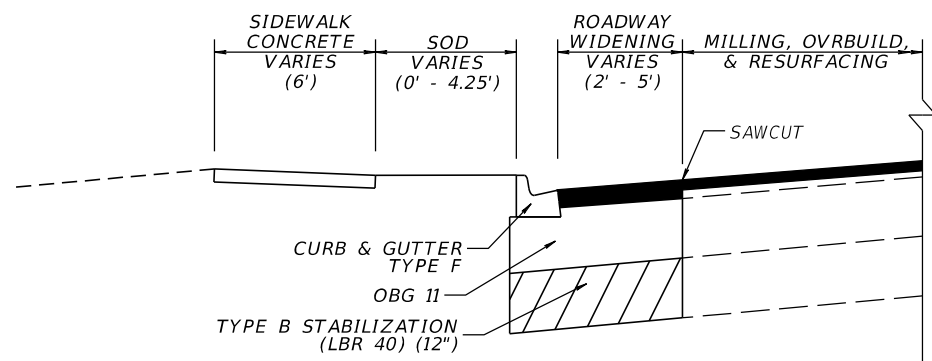
TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 31500
ESTIMATED OPENING YEAR = 2025 AADT = 33100
ESTIMATED DESIGN YEAR = 2045 AADT = 46900
K = 9 % D = % T = 8.9% (24 HOUR)
DESIGN HOUR T = 4.45%
DESIGN SPEED = 45 MPH
CONTEXT CLASSIFICATION = C4

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8901 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	<p align="center">TYPICAL SECTIONS</p> <p align="center">11</p>

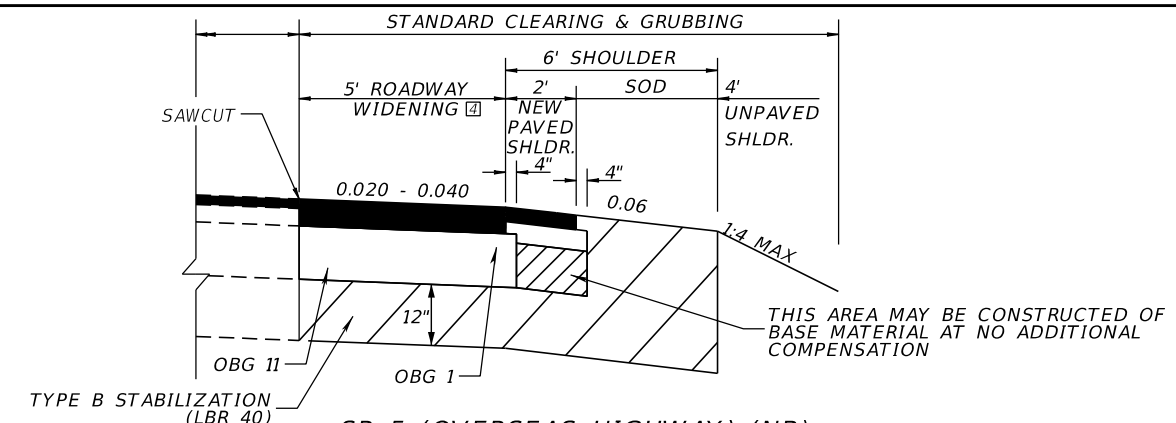
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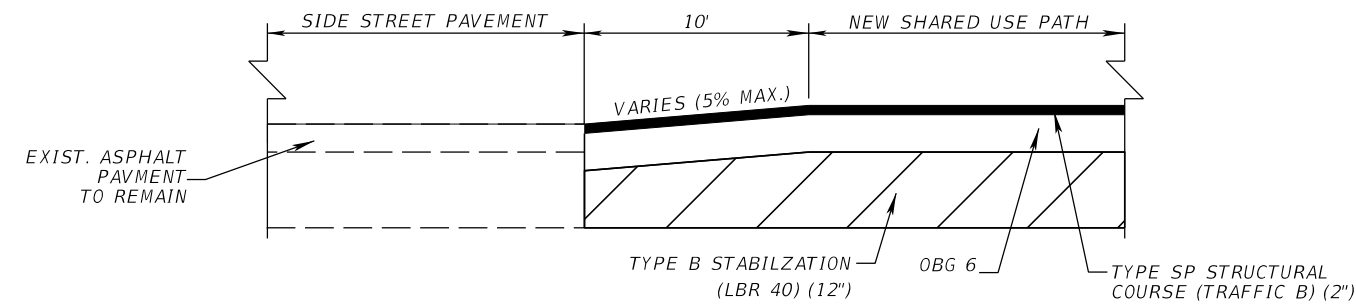
**SR 5 (OVERSEAS HIGHWAY) (SB)
ROADWAY WIDENING WITH CURB & GUTTER
STA. 305+33.61 TO STA. 306+82.16**

NOTE: USE THIS DETAIL FOR THE NB ROADWAY WIDENING CONSTRUCTION FROM STA. 305+16.29 TO STA. 310+47.10



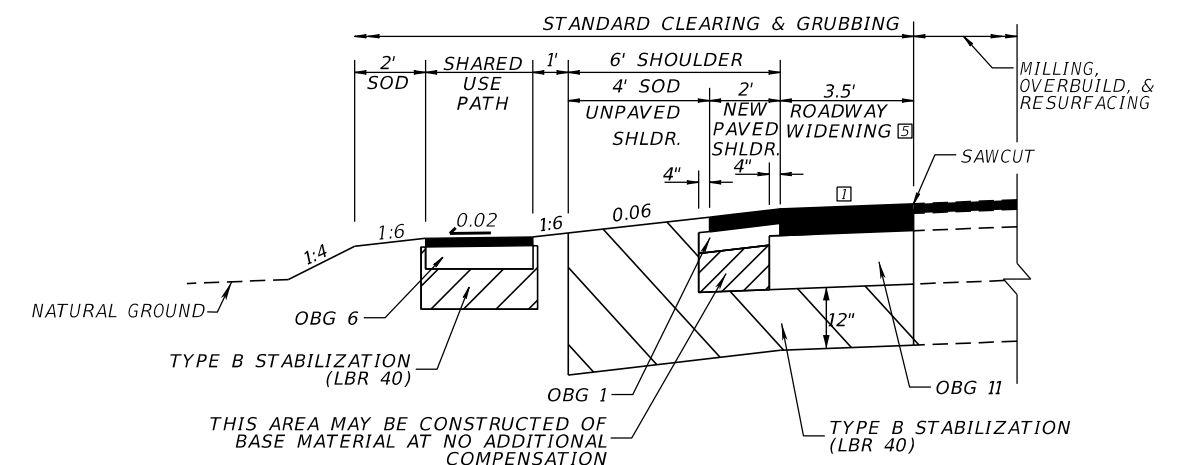
**SR 5 (OVERSEAS HIGHWAY) (NB)
ROADWAY WIDENING AND
SHOULDER RECONSTRUCTION DETAIL**

STA. 151+58.09 TO STA. 153+91.75
STA. 166+37.29 TO STA. 169+29.40
STA. 293+97.39 TO STA. 295+82.79
STA. 302+17.50 TO STA. 304+42.61



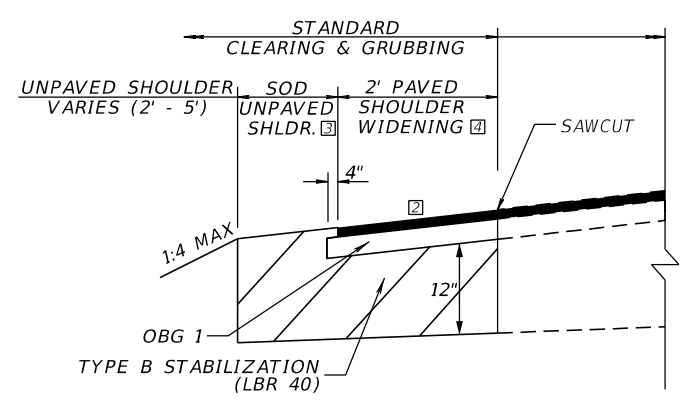
**SHARED USE PATH
LONGITUDINAL TIE-IN DETAIL**

NOTE: TO BE USED AT SECTIONS WHERE THE SHARED USE PATH CONNECTS TO THE EXISTING SIDE STREETS.



**SR 5 (OVERSEAS HIGHWAY) (SB)
ROADWAY WIDENING AND
SHOULDER RECONSTRUCTION DETAIL
STA. 296+67.43 TO STA. 298+87.42**

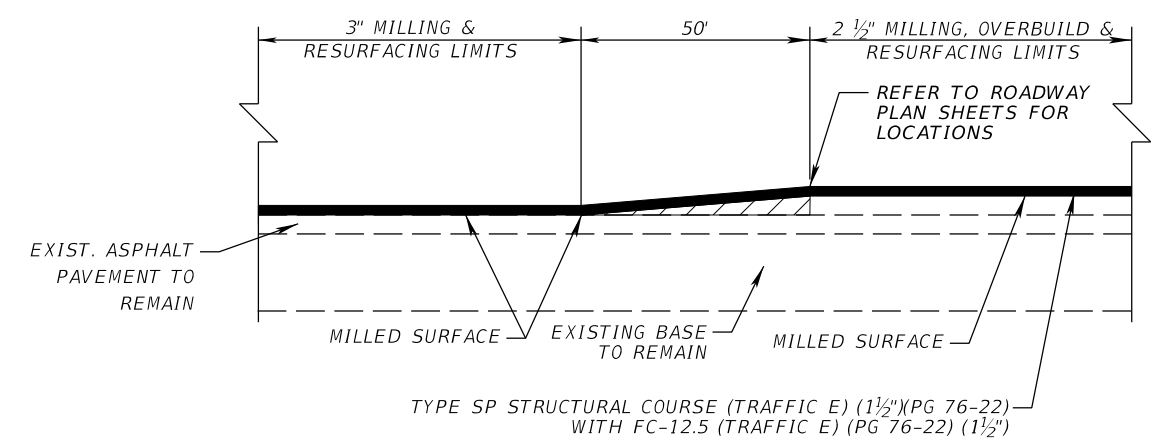
THIS AREA MAY BE CONSTRUCTED OF BASE MATERIAL AT NO ADDITIONAL COMPENSATION



**SR 5 (OVERSEAS HIGHWAY)
SHOULDER WIDENING DETAIL**

STA. 155+00.23 TO STA. 156+83.69 (NB)
STA. 180+70.99 TO STA. 182+72.21 (NB)
STA. 185+54.28 TO STA. 189+25.86 (SB)
STA. 195+79.23 TO STA. 198+37.00 (SB)
STA. 203+61.90 TO STA. 206+43.40 (NB)
STA. 207+26.62 TO STA. 211+60.74 (NB)
STA. 212+62.28 TO STA. 216+51.27 (NB)
STA. 220+40.95 TO STA. 225+83.53 (NB)
STA. 225+80.53 TO STA. 229+29.71 (NB)
STA. 234+68.56 TO STA. 236+54.65 (SB)
STA. 242+09.06 TO STA. 246+64.25 (SB)
STA. 252+23.28 TO STA. 258+32.75 (SB)
STA. 266+20.44 TO STA. 273+27.20 (SB)
STA. 279+76.11 TO STA. 281+52.33 (NB)
STA. 281+73.51 TO STA. 286+37.86 (SB)
STA. 283+91.34 TO STA. 293+61.40 (NB)
STA. 287+02.02 TO STA. 291+58.17 (SB)
STA. 292+31.93 TO STA. 295+41.16 (SB)
STA. 301+76.84 TO STA. 302+28.39 (NB) [5]

- LEGEND:
- [1] MATCH ADJACENT TRAVEL LANE EXISTING SLOPE; VALUE RANGE IS SHOWN.
 - [2] MATCH ADJACENT PAVED SHOULDER SLOPE.
 - [3] 5' UNPAVED SHOULDER ONLY ALONG THE SB SHOULDER WIDENING
 - [4] ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM BASE WIDTH WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
 - [5] SHOULDER WIDENING VARIES FROM 2' TO 4'



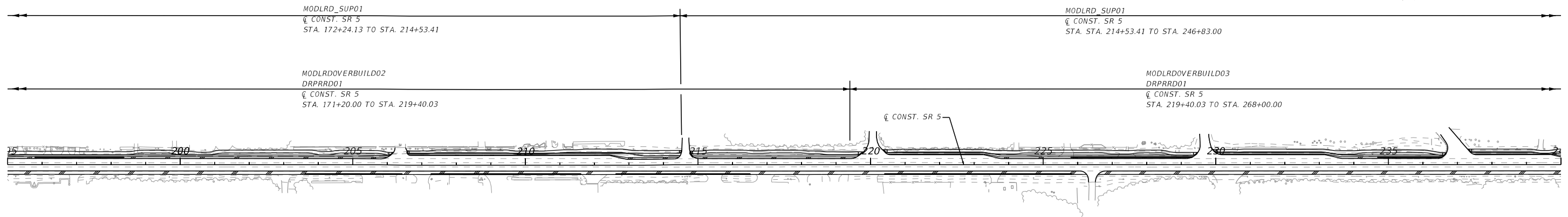
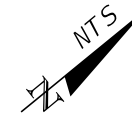
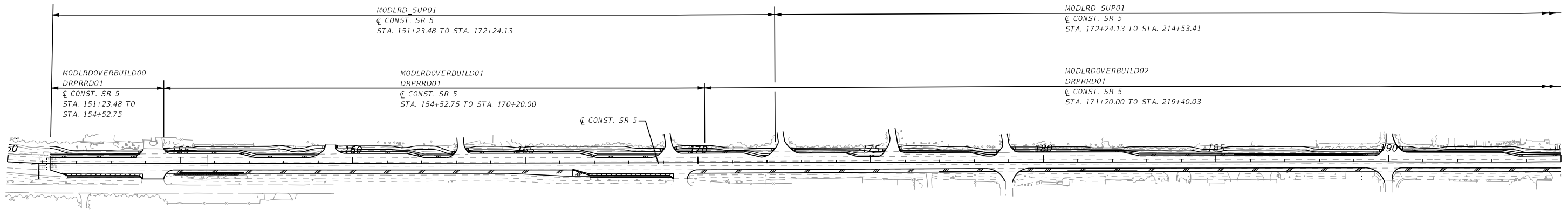
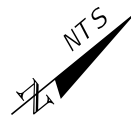
**LONGITUDINAL TIE-IN DETAIL
BETWEEN 3'' AND 2 1/2'' MILLING SECTIONS**

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8901 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186			SR 5	MONROE	447810-1-52-01	12

TYPICAL SECTION DETAILS

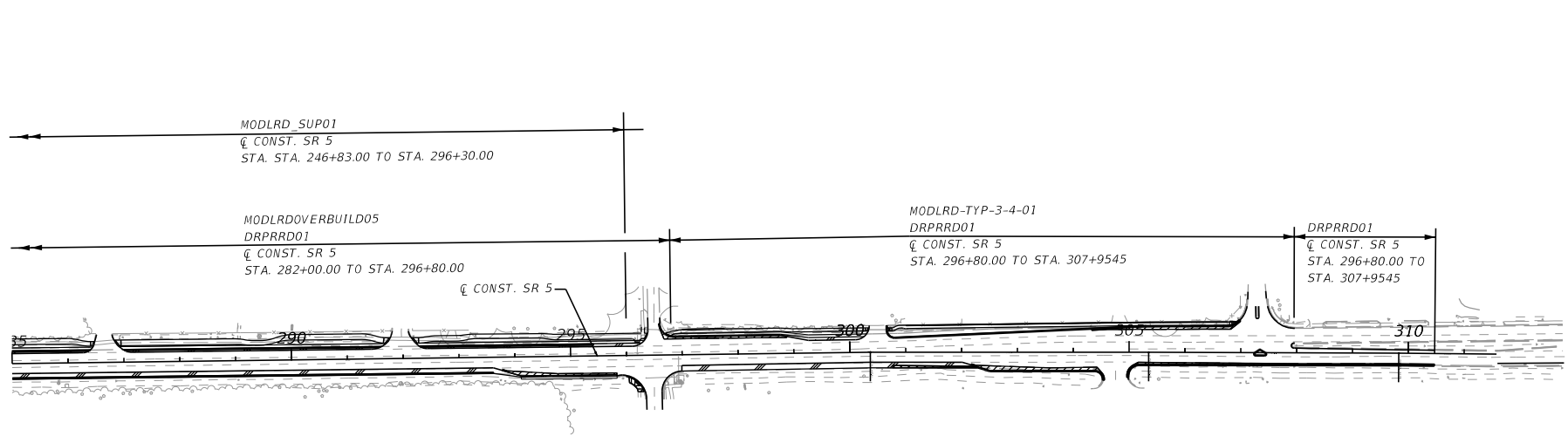
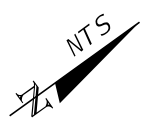
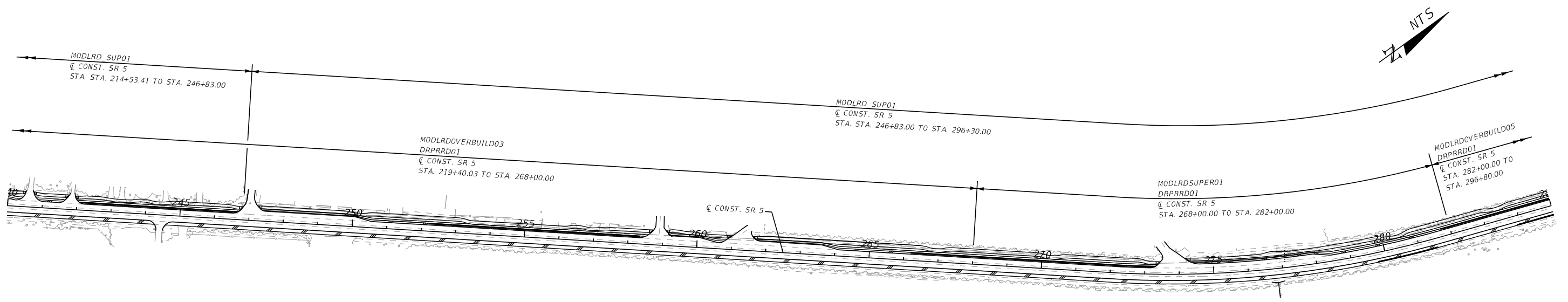
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MODEL MANAGEMENT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO LAVERDE LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		15
								SR 5		MONROE

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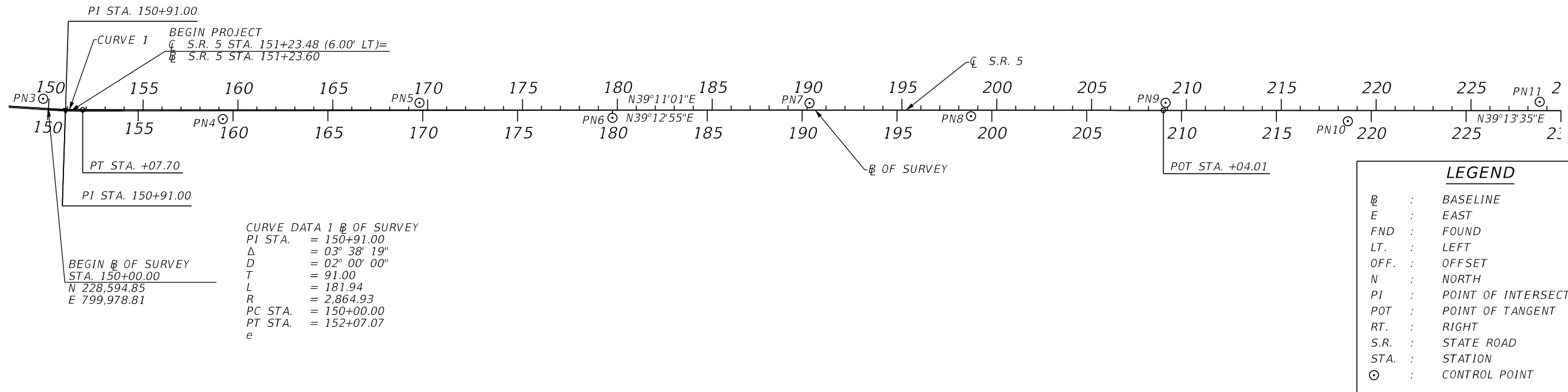
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MODEL MANAGEMENT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO LAVERDE LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		16
						SR 5	MONROE	447810-1-52-01		

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CURVE DATA 1 C S.R. 5
 PI STA. = 150+91.00
 Δ = 03° 38' 19"
 D = 02° 00' 00"
 T = 91.00
 L = 181.94
 R = 2,864.93
 PC STA. = 150+00.00
 PT STA. = 151+81.94
 e

PROJECT CONTROL POINTS OF SURVEY S.R. 5 / US-1 (OVERSEAS HWY) (NOT TO SCALE)



HORIZONTAL AND VERTICAL CONTROL

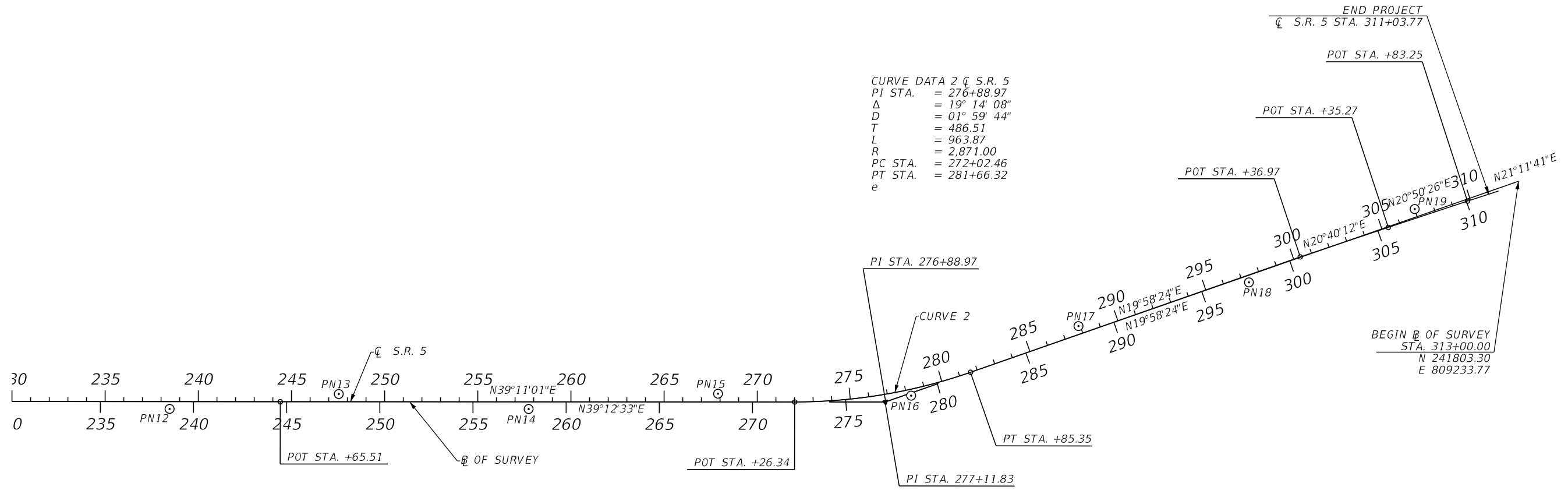
CONTROL POINTS	B SURVEY STATION	OFFSET	(Z) ELEVATION	DESCRIPTION	(Y) NORTHING	(X) EASTING	LATITUDE	LONGITUDE	SCALE FACTOR
PN1	130+73.80	42.78' LT	10.68'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	227,657.193	798,321.354	24° 57' 33.116"	80° 34' 15.271"	0.999964350
PN2	140+19.44	94.36' RT	8.99'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	227,918.674	799,245.943	24° 57' 35.677"	80° 34' 05.215"	0.999964660
PN3	149+69.71	50.69' LT	5.36'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	228,606.977	799,920.592	24° 57' 42.474"	80° 33' 57.860"	0.999964880
PN4	159+20.36	48.64' RT	5.19'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	229,252.790	800,585.823	24° 57' 48.851"	80° 33' 50.608"	0.999965100
PN5	169+56.82	38.05' LT	5.71'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	230,110.582	801,174.006	24° 57' 57.329"	80° 33' 44.187"	0.999965290
PN6	179+74.11	40.88' RT	9.48'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	230,848.801	801,878.386	24° 58' 04.620"	80° 33' 36.506"	0.999965530
PN7	190+13.03	37.50' LT	10.03'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	231,703.241	802,474.556	24° 58' 13.065"	80° 33' 29.998"	0.999965730
PN8	198+64.16	31.00' RT	10.42'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	232,319.325	803,065.795	24° 58' 19.148"	80° 33' 23.551"	0.999965930
PN9	208+90.03	40.32' LT	9.32'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	233,159.187	803,659.187	24° 58' 27.449"	80° 33' 17.072"	0.999966130
PN10	218+50.74	55.89' RT	11.72'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	233,842.650	804,341.175	24° 58' 34.197"	80° 33' 09.636"	0.999966360
PN11	228+62.01	46.70' LT	9.56'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	234,690.973	804,901.115	24° 58' 42.582"	80° 33' 03.520"	0.999966550
PN12	238+45.78	38.68' RT	8.51'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	235,399.149	805,589.289	24° 58' 49.575"	80° 32' 56.015"	0.999966780
PN13	247+53.98	41.69' LT	8.92'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	236,153.600	806,101.224	24° 58' 57.031"	80° 32' 50.424"	0.999966960
PN14	257+73.11	38.22' RT	6.06'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	236,892.749	806,807.391	24° 59' 04.330"	80° 32' 42.723"	0.999967200
PN15	267+89.47	44.61' LT	5.92'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	237,732.634	807,385.705	24° 59' 12.631"	80° 32' 36.406"	0.999967400
PN16	278+23.59	33.62' RT	6.66'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	238,526.098	808,053.197	24° 59' 20.468"	80° 32' 29.123"	0.999967630
PN17	287+91.09	43.32' LT	9.65'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	239,459.997	808,335.774	24° 59' 29.710"	80° 32' 26.017"	0.999967730
PN18	297+32.28	36.25' RT	10.13'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	240,317.393	808,732.058	24° 59' 38.190"	80° 32' 21.678"	0.999967870
PN18	307+01.82	42.37' LT	6.52'	FOUND F.D.O.T. BRASS DISC IN CONCRETE	241,255.471	808,989.342	24° 59' 47.474"	80° 32' 18.847"	0.999967960

PROJECT CONTROL NOTES:

1. PROJECT IS BASED ON THE FLORIDA STATE COORDINATE SYSTEM NAD 1983 / 2011 HORIZONTAL DATUM.
2. ELEVATIONS ARE BASED ON NORTH AMERICA VERTICAL DATUM 1988 (NAVD88)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT CONTROL	SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8901 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33187		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 5	MONROE	447810-1-52-01		

**PROJECT CONTROL POINTS
 OF SURVEY S.R. 5 / US-1 (OVERSEAS HWY)
 (NOT TO SCALE)**



CURVE DATA 2 C S.R. 5
 PI STA. = 276+88.97
 Δ = 19° 14' 08"
 D = 01° 59' 44"
 T = 486.51
 L = 963.87
 R = 2,871.00
 PC STA. = 272+02.46
 PT STA. = 281+66.32
 e

CURVE DATA 2 B OF SURVEY
 PI STA. = 277+11.83
 Δ = 19° 14' 08"
 D = 02° 00' 00"
 T = 485.48
 L = 961.83
 R = 2,864.93
 PC STA. = 272+26.34
 PT STA. = 281+85.35
 e

LEGEND	
—	BASELINE
E	EAST
FND	FOUND
LT.	LEFT
OFF.	OFFSET
N	NORTH
PI	POINT OF INTERSECTION
POT	POINT OF TANGENT
RT.	RIGHT
S.R.	STATE ROAD
STA.	STATION
⊙	CONTROL POINT

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8901 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33187		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	PROJECT CONTROL 18

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GENERAL NOTES

GENERAL

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. THE DESIGN HIGH WATER (D.H.W.) ELEVATION SHOWN IN THE PLANS IS THE ANTICIPATED WATER ELEVATION.
3. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

GASPAR LOBAINA, P.S.M.
P.S.M. NO. 2873
FR ALEMAN & ASSOCIATES, INC
10305 NW 41 STREET, SUITE 200
MIAMI, FLORIDA 33178

4. SPECIAL EVENTS DAYS FOR THIS PROJECT INCLUDE:

KEY WEST MINI LOBSTER SEASON
KEY WEST ANNUAL KEY WEST FANTASY FEST
MARATHON, FLORIDA (NEW 7 MILE BRIDGE) ANNUAL 7 MILE BIDGE RUN
KEY WEST ANNUAL WORLD CHAMPIONSHIP BOAT RACES

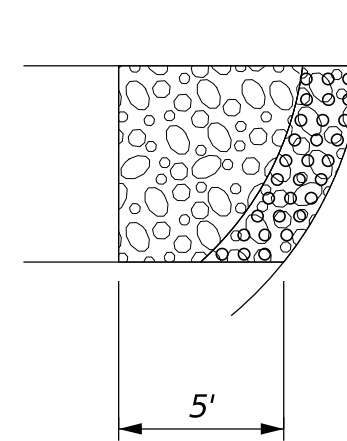
UTILITIES:

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. UTILITY/AGENCY OWNERS FOR THIS PROJECT INCLUDE:

COMPANY	CONTACT	TELEPHONE NUMBERS
AT&T	CARLOS MORENO	(305) 929-4597
COMCAST	RICARDO DAVIDSON	(305) 221-1322
FLORIDA KEYS AQUEDUCT AUTHORITY	MARNIE WATERSON	(305) 295-2154
FLORIDA KEYS ELECTRIC COOPERATIVE	TOM ANTHONY	(305) 852-1033
VILLAGE OF ISLAMORADA	ANDREW ENGELMEYER	(305) 852-6933

NOTES TO REVIEWERS:

1. EXISTING DRIVEWAYS ARE BEING EVALUATED FOR RECONSTRUCTION OR IOVERBUILD AND RESURFACING. FINAL DETERMINATION WILL BE INCLUDED IN THE NEXT SUBMITTAL.
2. HARMINIZATION LIMITS ARE BEING ANALYZED AND WILL BE COORDINATED WITH THE ROW OFFICE BEFORE THE NEXT SUBMITTAL.
3. RELOCATION SITE PLAN DETAILS TO BE PROVIDED FOR THE NEXT SUBMITTAL.



LEGEND

- 6" CONCRETE
- DETECTABLE WARNING SURFACE

**DETECTABLE WARNING SURFACE
INSTALLATION DETAIL**

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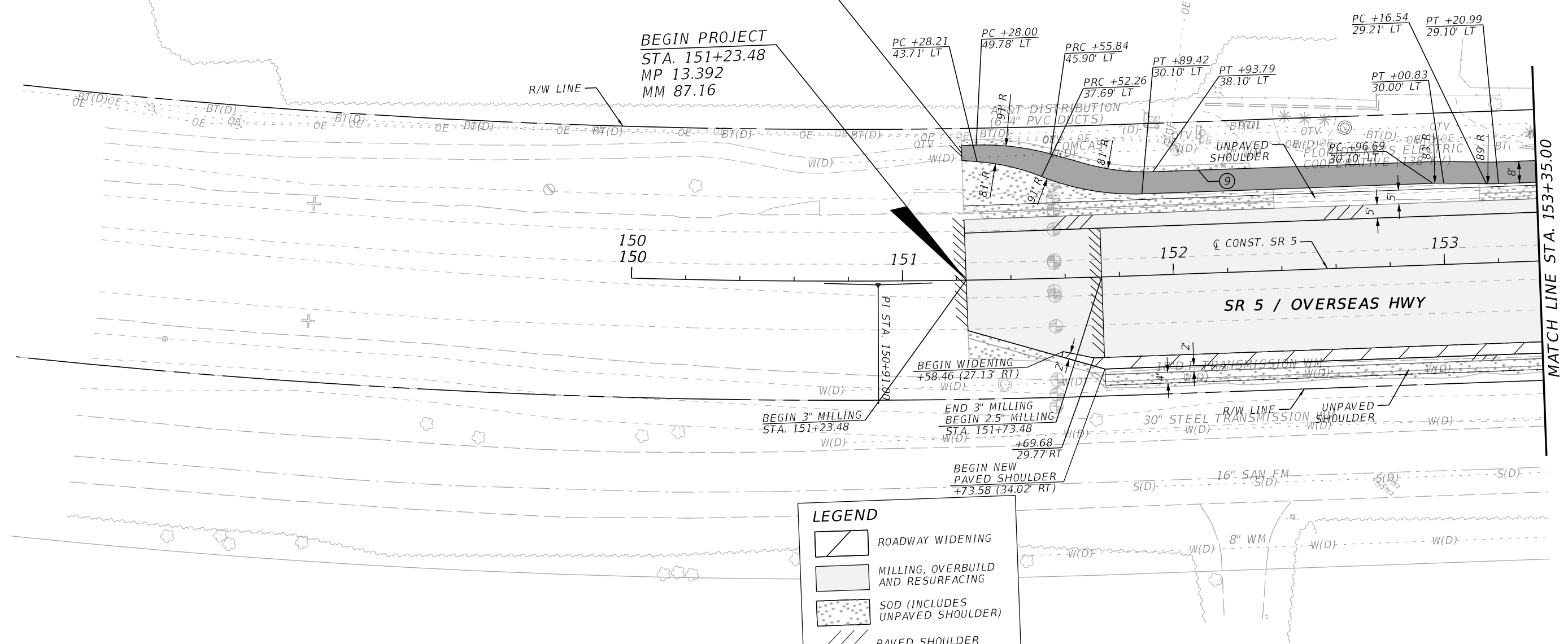
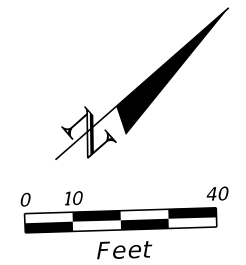
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER: 63546 TRACE CONSULTANTS, INC. 8901 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33187		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 5	MONROE	447810-1-52-01		19

CURVE DATA 1 C S.R. 5
 PI STA. = 150+91.00
 Δ = 03° 38' 19"
 D = 02° 00' 00"
 T = 91.00
 L = 181.94
 R = 2,864.93
 PC STA. = 150+00.00
 PT STA. = 151+81.94
 e

**PLANTATION
HAMMOCK PRESERVE**

BEGIN SHARED USE PATH
 RECONSTRUCTION MATCH EXIST.
 SHARED USE PATH ELEVATIONS
 STA. 151+22.50

BEGIN PROJECT
 STA. 151+23.48
 MP 13.392
 MM 87.16



LEGEND

- ROADWAY WIDENING
- MILLING, OVERBUILD AND RESURFACING
- SOD (INCLUDES UNPAVED SHOULDER)
- PAVED SHOULDER
- SHARED USE PATH
- EXIST. GUY WIRE TO BE ADJUSTED BY FKEC

**87201 OLD HWY
ISLAMORADA, FL 33036**

MATCH LINE STA. 153+35.00

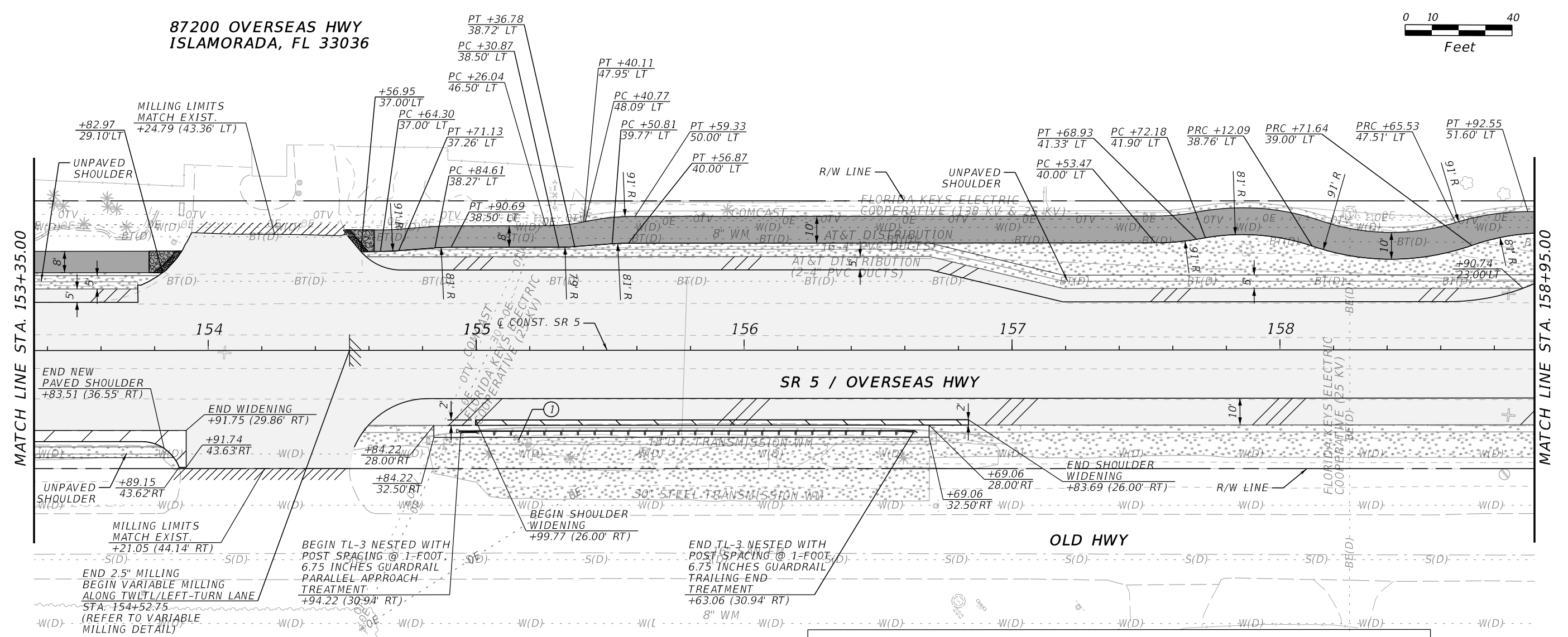
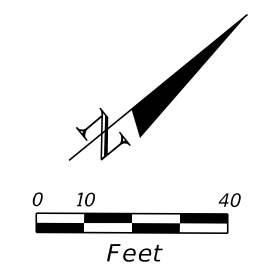
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	20

ROADWAY PLAN

87200 OVERSEAS HWY
ISLAMORADA, FL 33036



LEGEND

	ROADWAY WIDENING		SHOULDER WIDENING		WATER VALVE TO BE ADJUSTED BY FKA
	MILLING, OVERBUILD AND RESURFACING		SHARED USE PATH		DETECTABLE WARNING
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 6"		
	PAVED SHOULDER				

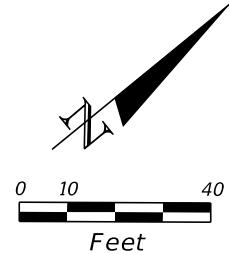
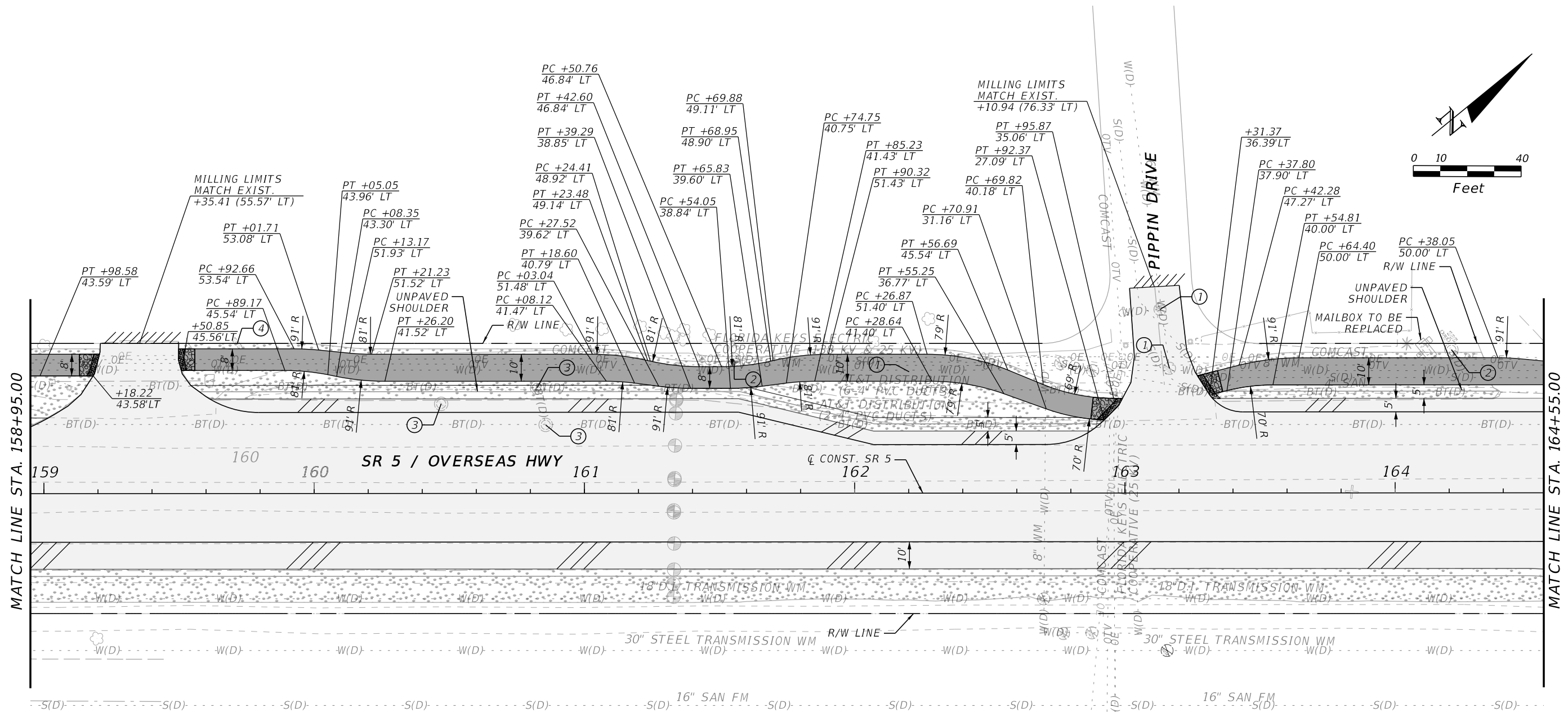
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	21

ROADWAY PLAN

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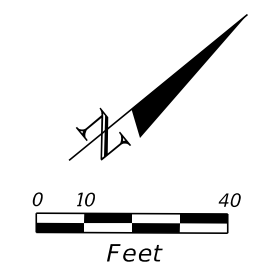
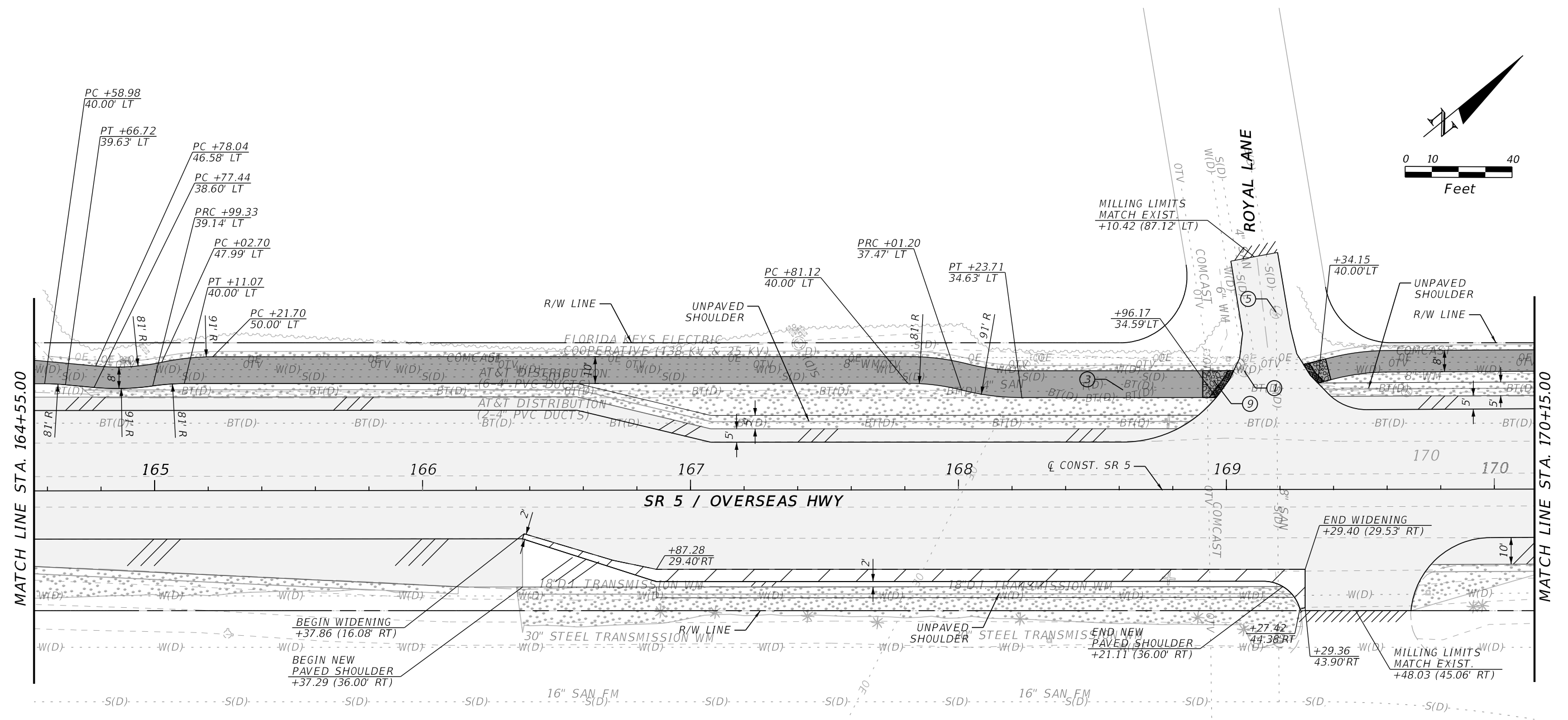


LEGEND	
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	DETECTABLE WARNING
	CONCRETE SIDEWALK 6"
	WATER VALVE TO BE ADJUSTED BY FKA
	SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	MANHOLE TO BE ADJUSTED BY AT&T
	EXIST. METER TO BE RELOCATED BY FKA

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-1-52-01	22	

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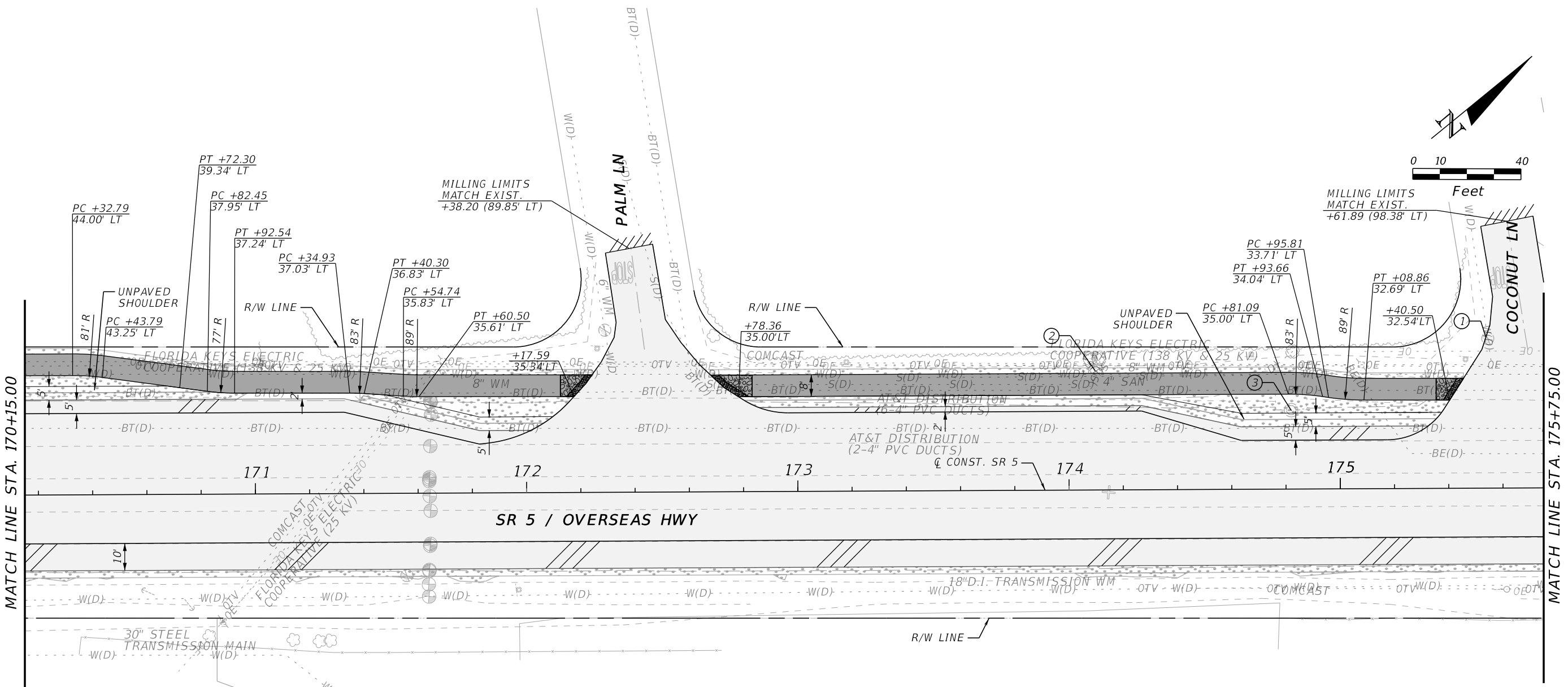
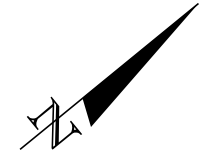


LEGEND

ROADWAY WIDENING	SHARED USE PATH	WATER VALVE TO BE ADJUSTED BY FKA
MILLING, OVERBUILD AND RESURFACING	DETECTABLE WARNING	MANHOLE TO BE ADJUSTED BY AT&T
SOD (INCLUDES UNPAVED SHOULDER)	CONCRETE SIDEWALK 6"	SANITARY VALVE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
PAVED SHOULDER		EXIST. GUY WIRE TO BE ADJUSTED BY FKEC

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 5	MONROE	447810-1-52-01		

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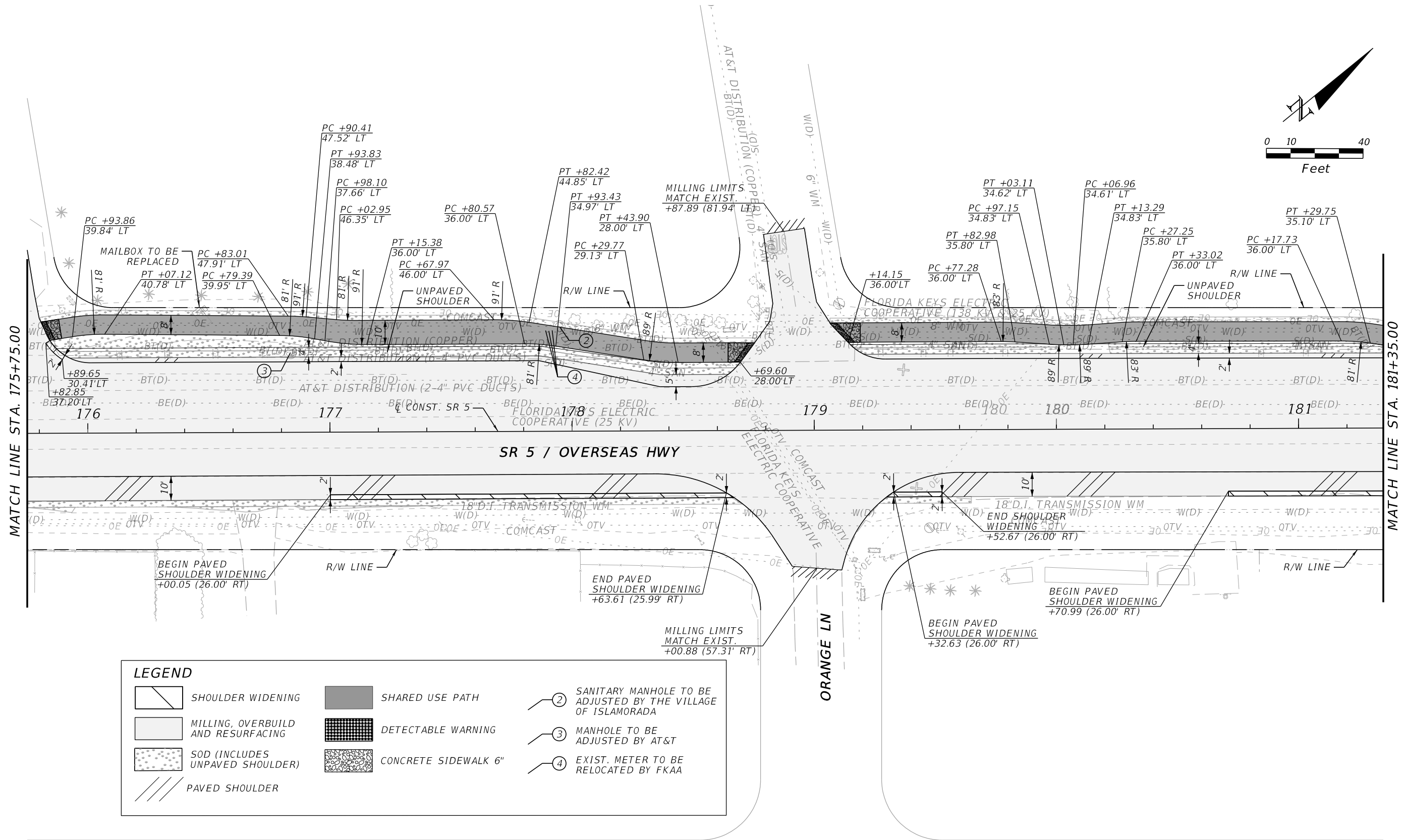
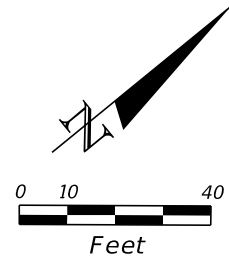
LEGEND

MILLING, OVERBUILD AND RESURFACING	SHARED USE PATH	WATER VALVE TO BE ADJUSTED BY FKA
SOD (INCLUDES UNPAVED SHOULDER)	DETECTABLE WARNING	SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
PAVED SHOULDER	CONCRETE SIDEWALK 6"	MANHOLE TO BE ADJUSTED BY AT&T

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-1-52-01	ROADWAY PLAN 24

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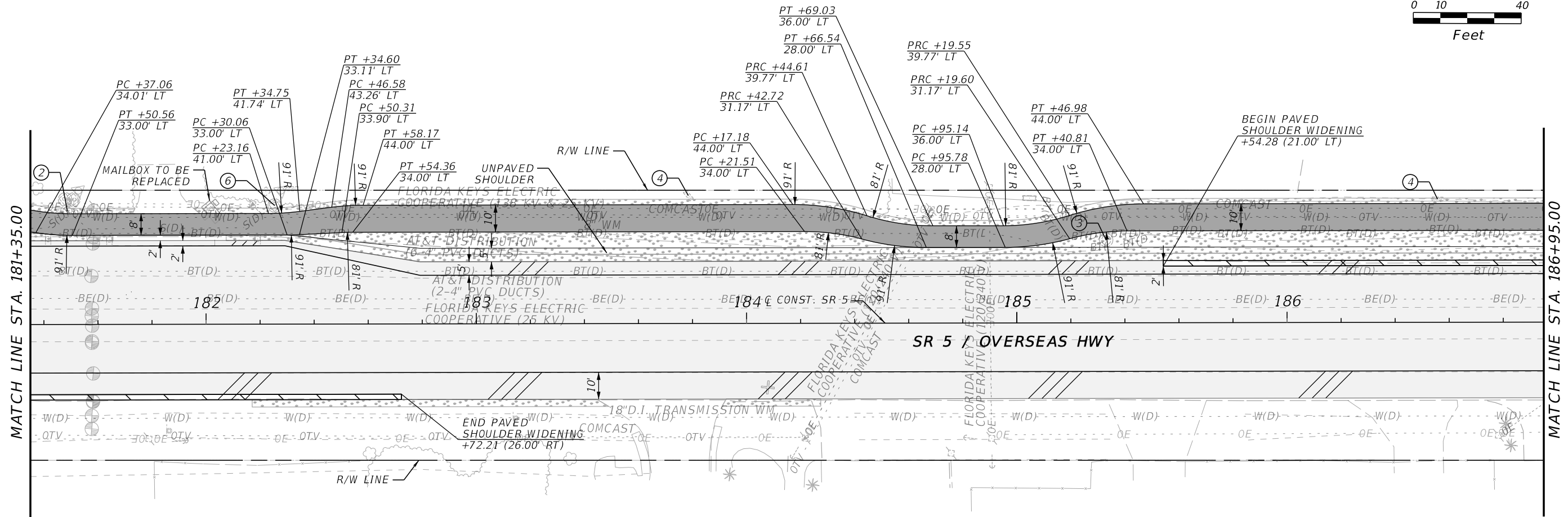
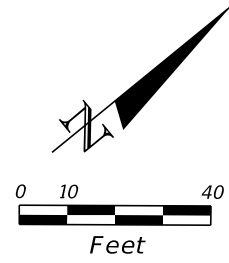
LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	DETECTABLE WARNING
	CONCRETE SIDEWALK 6"
	SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	MANHOLE TO BE ADJUSTED BY AT&T
	EXIST. METER TO BE RELOCATED BY FKA

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-152-01	25

ROADWAY PLAN



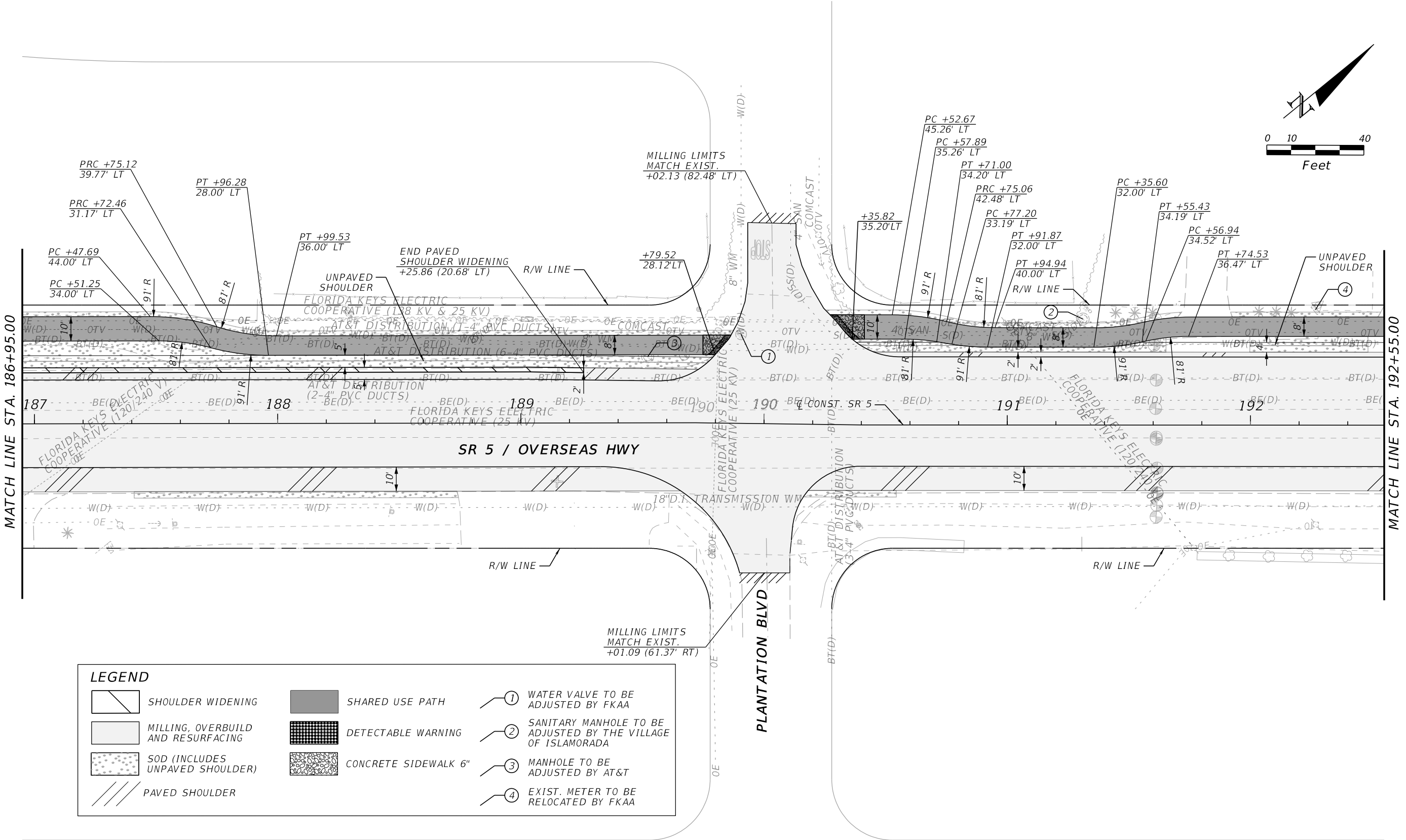
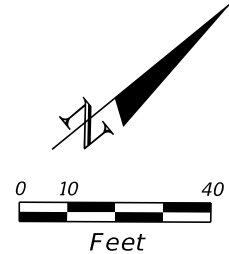
MILLER MARINE BOAT CENTER
87861 OVERSEAS HWY,
ISLAMORADA, FL 33036

LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	MANHOLE TO BE ADJUSTED BY AT&T
	EXIST. METER TO BE RELOCATED BY FKA
	SANITARY VALVE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	SANITARY VACUUM CLEANER TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA

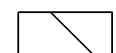










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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	26
ROADWAY PLAN									



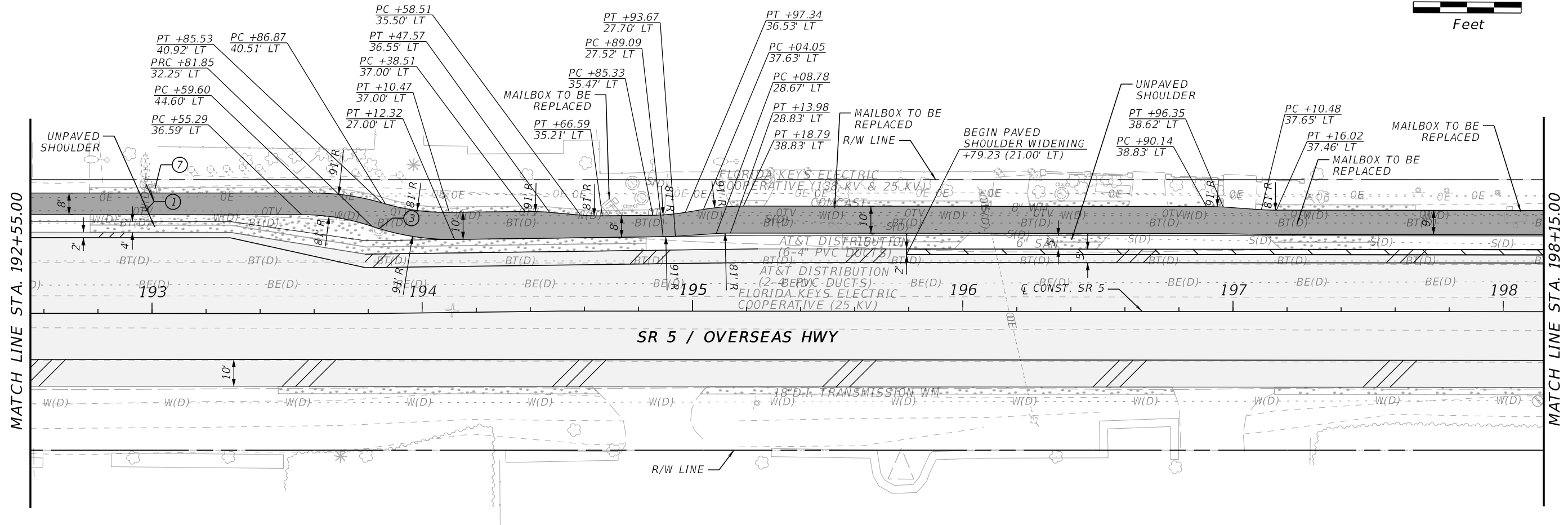
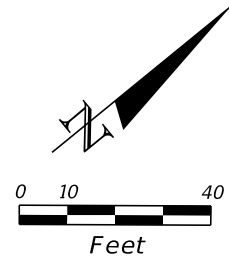
LEGEND

	SHOULDER WIDENING		SHARED USE PATH		WATER VALVE TO BE ADJUSTED BY FKA
	MILLING, OVERBUILD AND RESURFACING		DETECTABLE WARNING		SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 6"		MANHOLE TO BE ADJUSTED BY AT&T
	PAVED SHOULDER				EXIST. METER TO BE RELOCATED BY FKA

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	27
ROADWAY PLAN									

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LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	WATER VALVE TO BE ADJUSTED BY FKA
	MANHOLE TO BE ADJUSTED BY AT&T
	FIRE HYDRANT TO BE ADJUSTED BY FKA

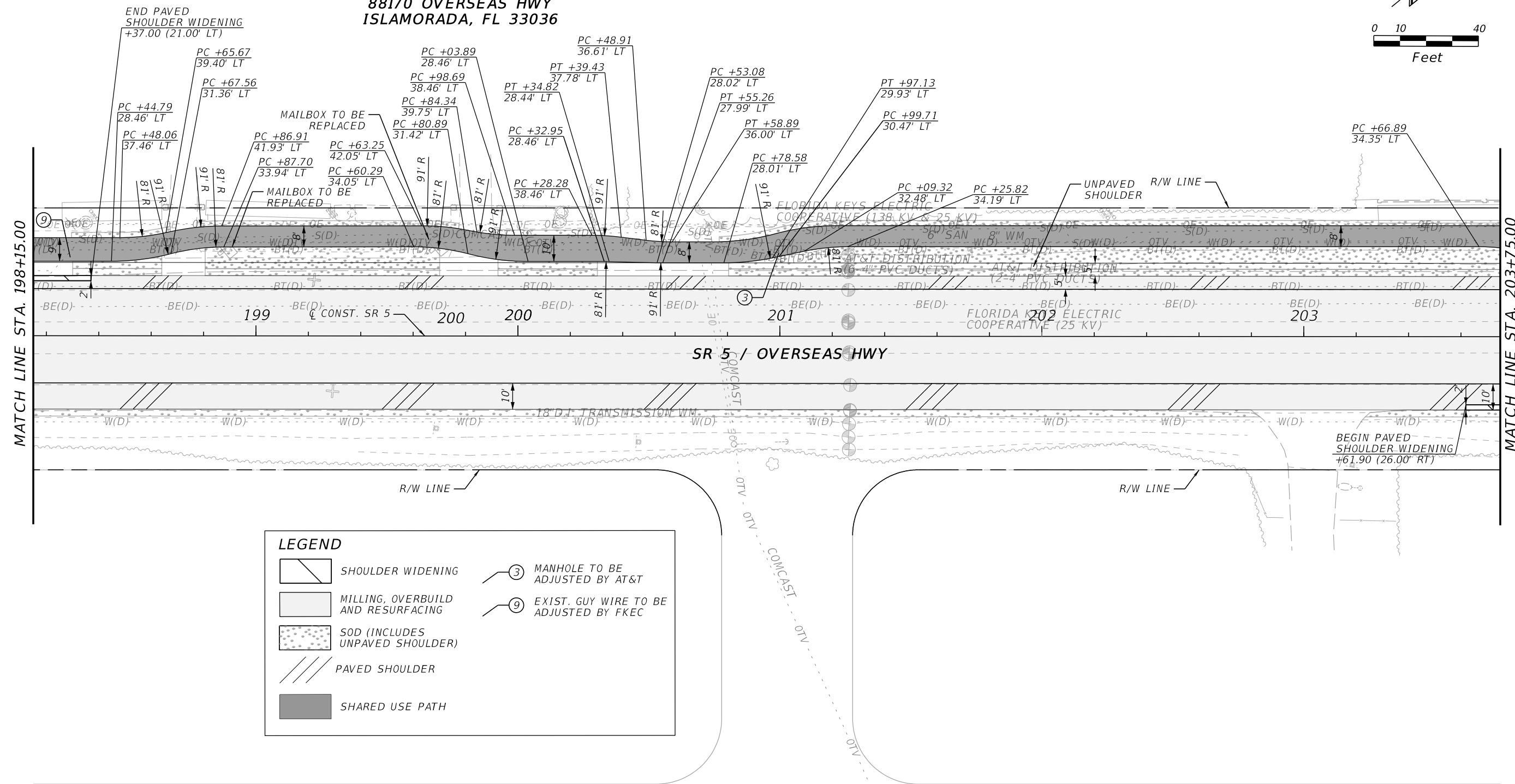
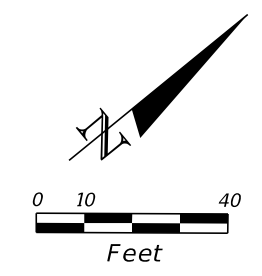
FEDEX
88005 OVERSEAS HWY
ISLAMORADA, FL 33036

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	28
ROADWAY PLAN									

88170 OVERSEAS HWY
ISLAMORADA, FL 33036

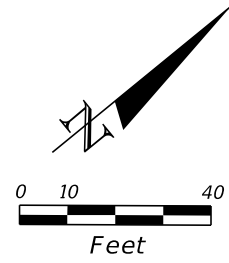


LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	MANHOLE TO BE ADJUSTED BY AT&T
	EXIST. GUY WIRE TO BE ADJUSTED BY FKEC

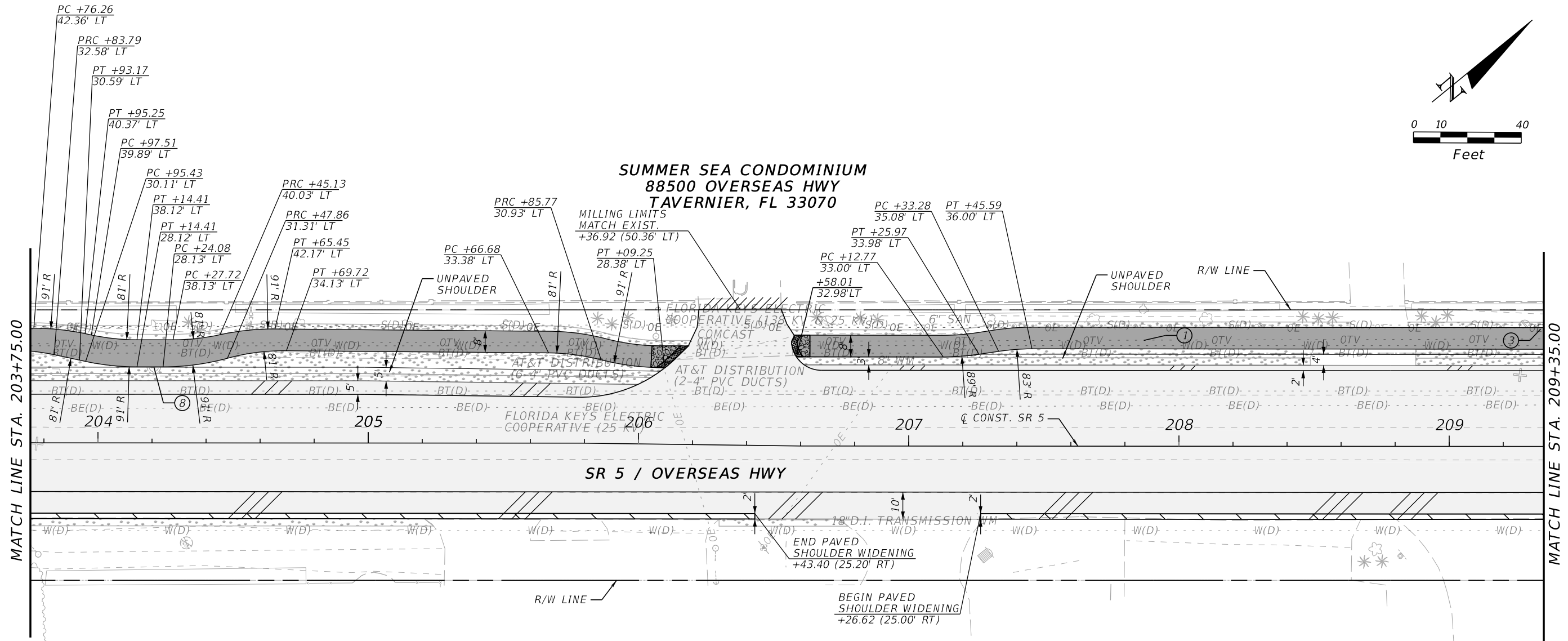
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 29
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01		



**SUMMER SEA CONDOMINIUM
88500 OVERSEAS HWY
TAVERNIER, FL 33070**



LEGEND	
	SHOULDER WIDENING
	SHARED USE PATH
	MILLING, OVERBUILD AND RESURFACING
	DETECTABLE WARNING
	SOD (INCLUDES UNPAVED SHOULDER)
	CONCRETE SIDEWALK 6"
	PAVED SHOULDER
	WATER VALVE TO BE ADJUSTED BY FKA
	MANHOLE TO BE ADJUSTED BY AT&T
	EXIST. MANHOLE TO BE ADJUSTED BY FKEC

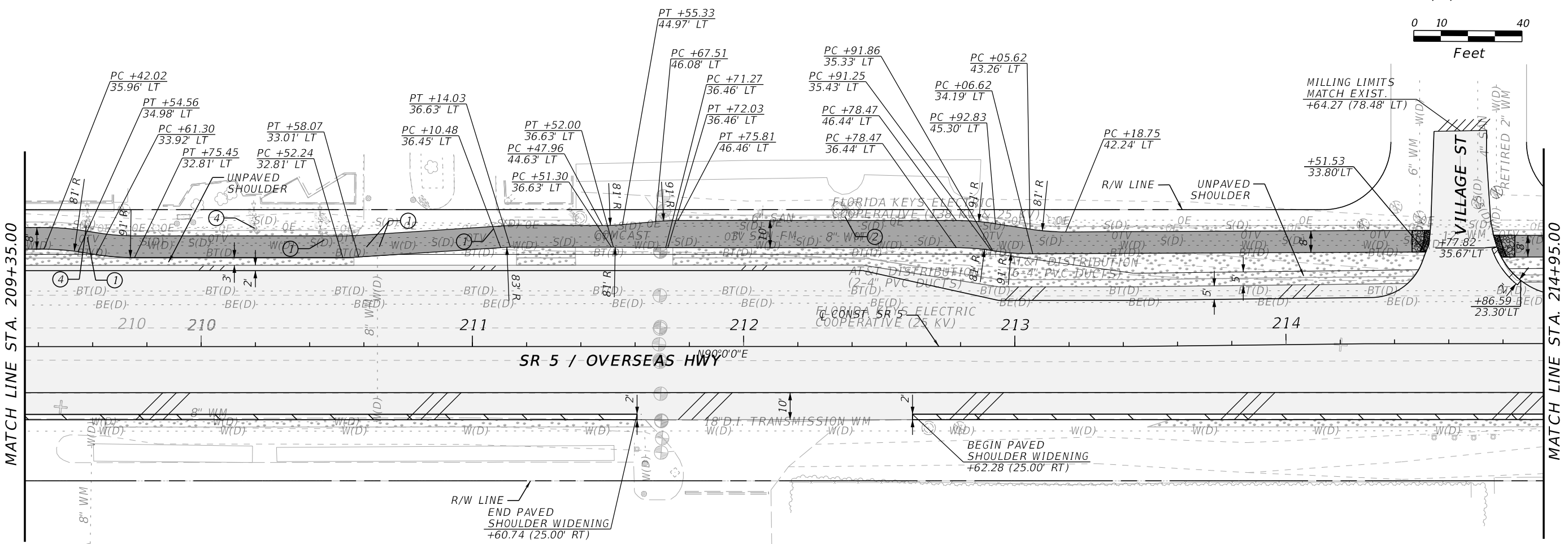
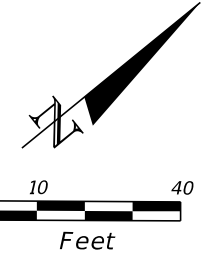
**HARDWARE STORE
88509 OVERSEAS HWY
TAVERNIER, FL 33070**

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	30

ROADWAY PLAN



LEGEND

	SHOULDER WIDENING		SHARED USE PATH		WATER VALVE TO BE ADJUSTED BY FKA
	MILLING, OVERBUILD AND RESURFACING		DETECTABLE WARNING		SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 6"		EXIST. METER TO BE RELOCATED BY FKA
	PAVED SHOULDER				

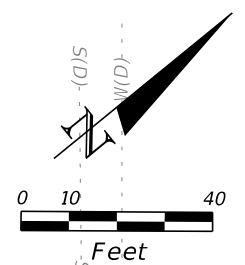
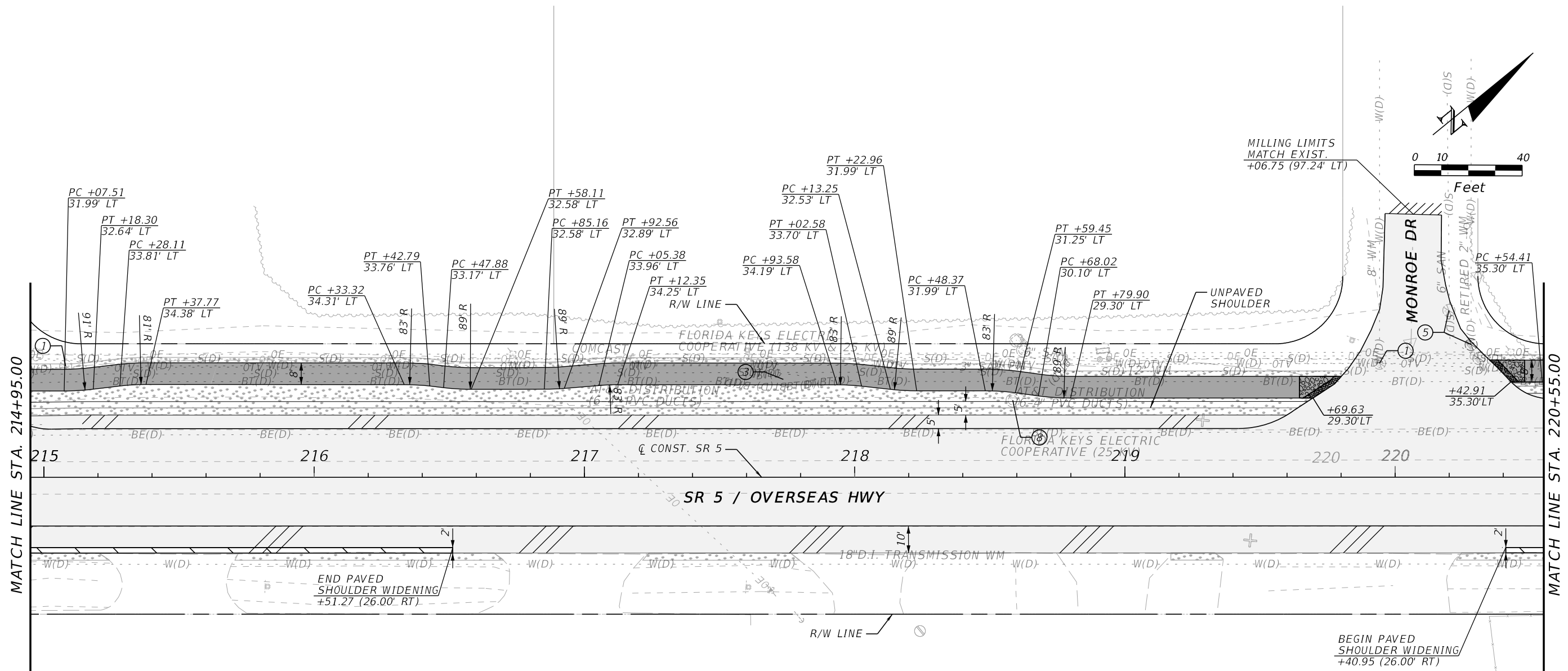
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	31

ROADWAY PLAN

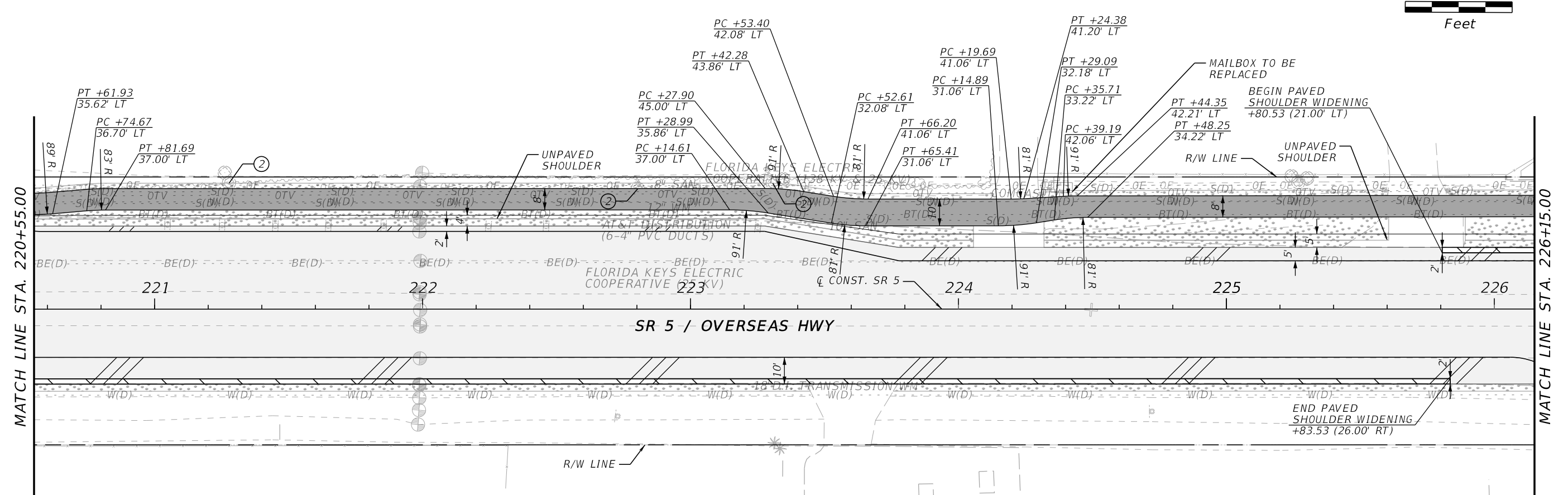
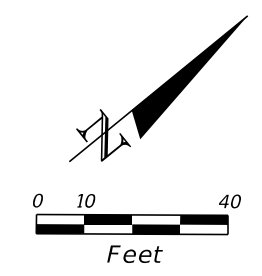
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





LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	DETECTABLE WARNING
	CONCRETE SIDEWALK 6"
	WATER VALVE TO BE ADJUSTED BY FKA
	MANHOLE TO BE ADJUSTED BY AT&T
	SANITARY VALVE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	EXIST. MANHOLE TO BE ADJUSTED BY FKEC

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	ROADWAY PLAN 32

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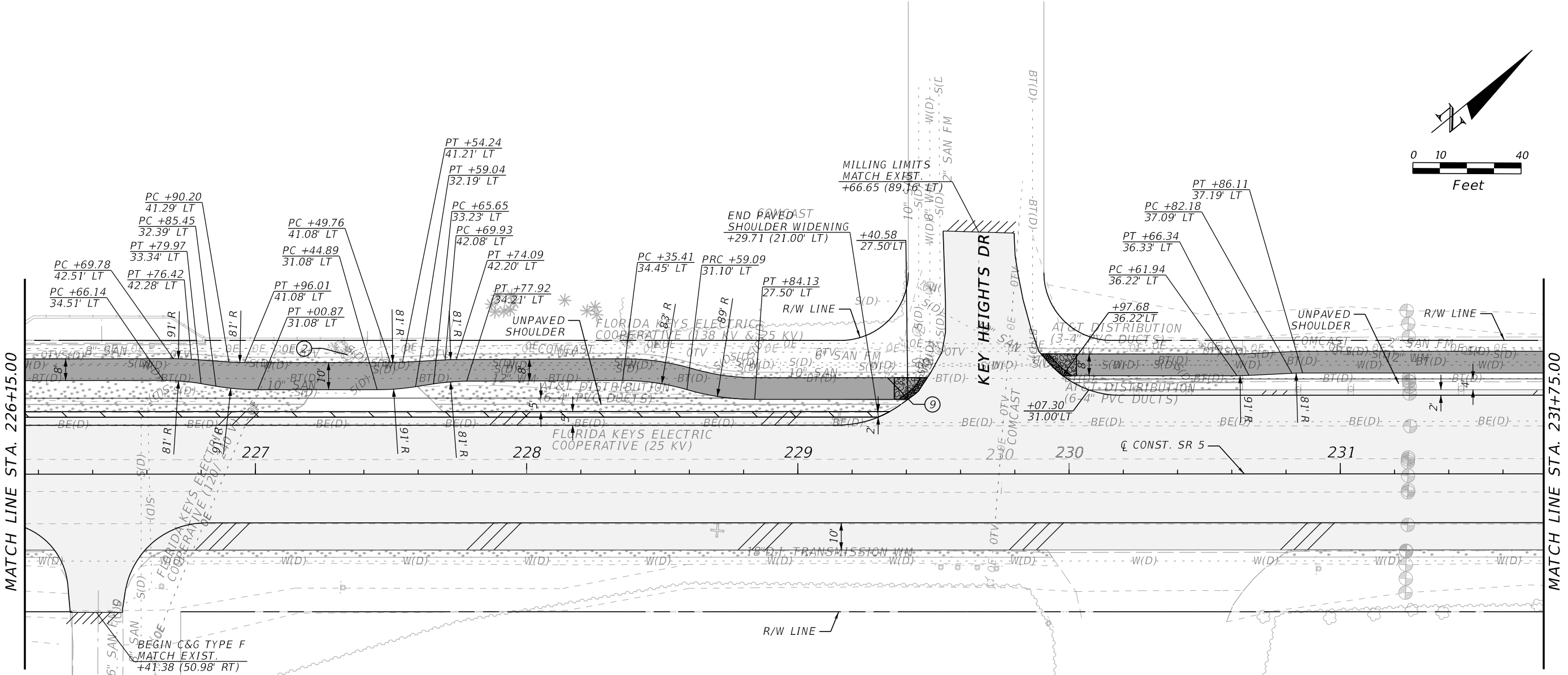
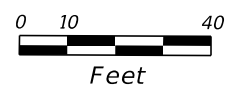
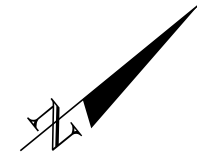
-  SHOULDER WIDENING
-  MILLING, OVERBUILD AND RESURFACING
-  SOD (INCLUDES UNPAVED SHOULDER)
-  PAVED SHOULDER
-  SHARED USE PATH
-  SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA

CORNERSTONE CONSTRUCTION
 88701 OVERSEAS HWY
 TAVERNIER, FL 33070

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	33
ROADWAY PLAN									



LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	DETECTABLE WARNING
	CONCRETE SIDEWALK 6"
	SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	EXIST. GUY WIRE TO BE ADJUSTED BY FKEC

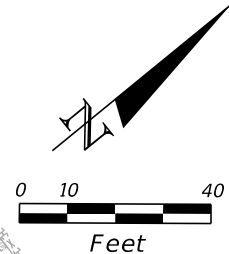
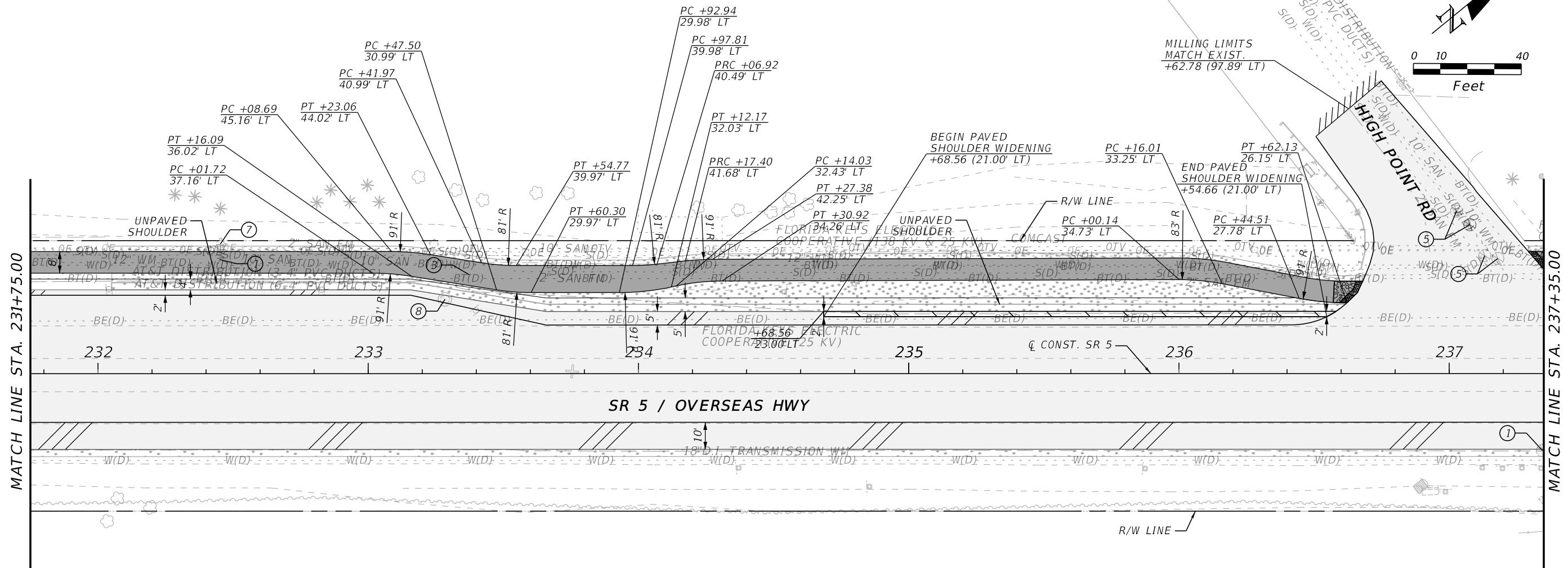
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-1-52-01	34

ROADWAY PLAN

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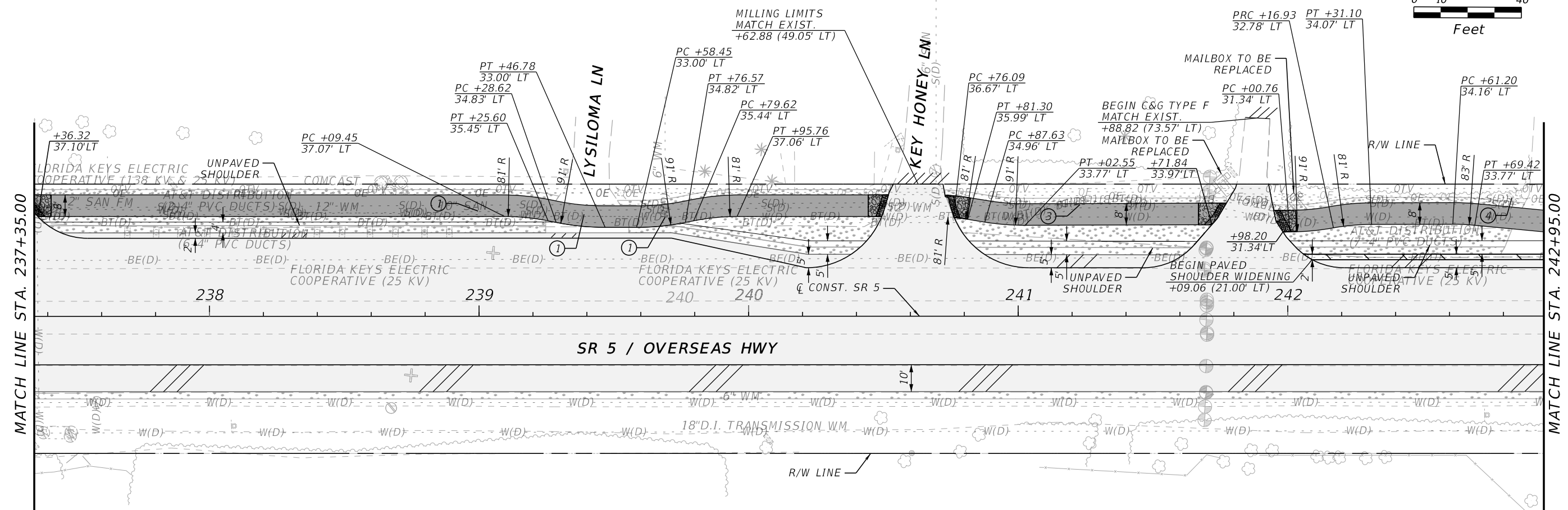
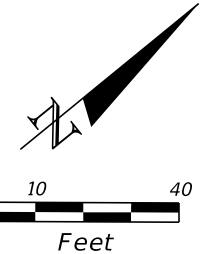
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LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	DETECTABLE WARNING
	CONCRETE SIDEWALK 6"
	WATER VALVE TO BE ADJUSTED BY FKA
	MANHOLE TO BE ADJUSTED BY AT&T
	SANITARY VALVE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	FIRE HYDRANT TO BE ADJUSTED BY FKA
	EXIST. MANHOLE TO BE ADJUSTED BY FKEC

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-1-52-01	35	

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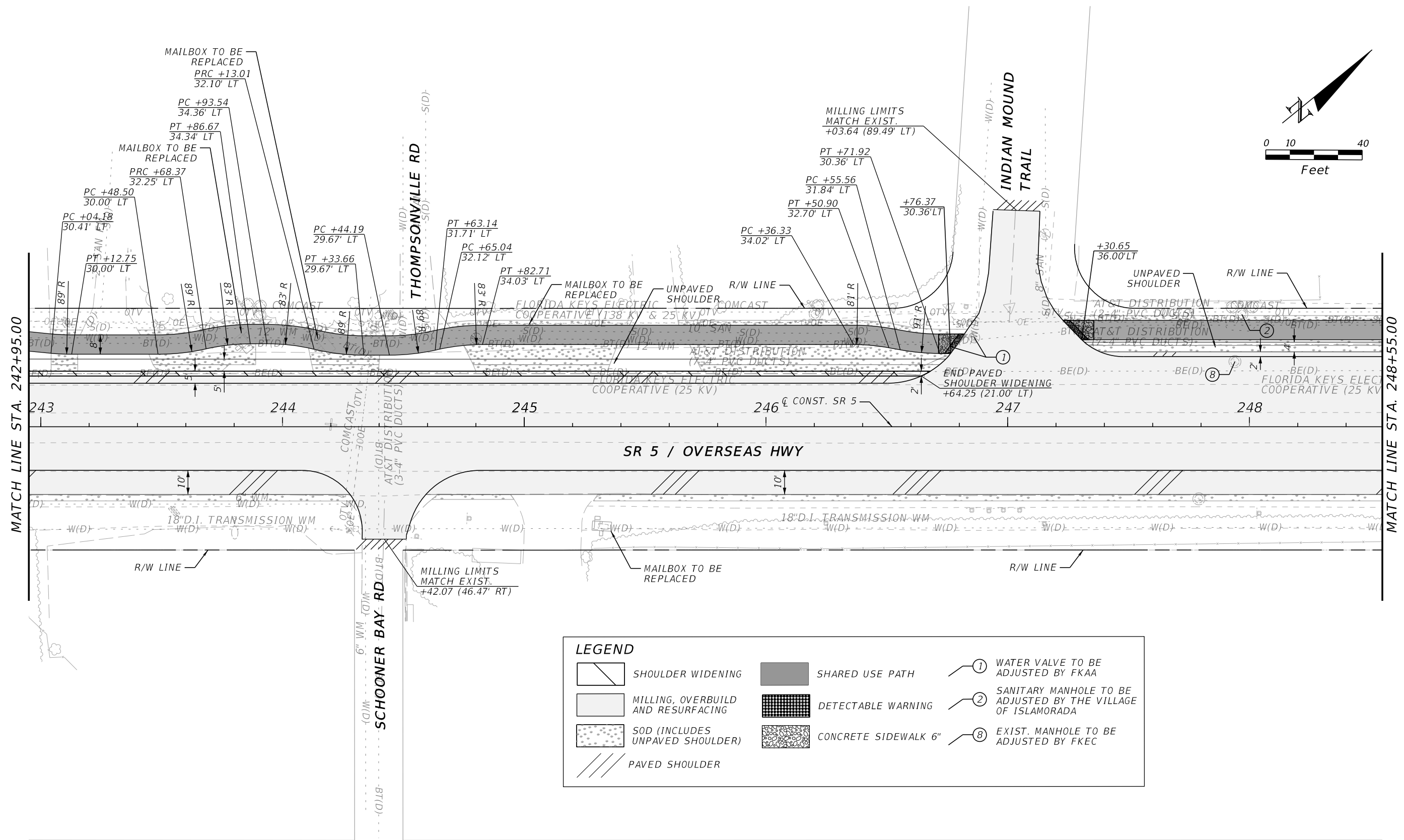
LEGEND	
	SHOULDER WIDENING
	SHARED USE PATH
	MILLING, OVERBUILD AND RESURFACING
	DETECTABLE WARNING
	SOD (INCLUDES UNPAVED SHOULDER)
	CONCRETE SIDEWALK 6"
	PAVED SHOULDER
	WATER VALVE TO BE ADJUSTED BY FKA
	MANHOLE TO BE ADJUSTED BY AT&T
	EXIST. METER TO BE RELOCATED BY FKA

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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 36
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-1-52-01		

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LEGEND

	SHOULDER WIDENING		SHARED USE PATH		WATER VALVE TO BE ADJUSTED BY FKA
	MILLING, OVERBUILD AND RESURFACING		DETECTABLE WARNING		SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 6"		EXIST. MANHOLE TO BE ADJUSTED BY FKEC
	PAVED SHOULDER				

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
 FAVIO A. LAVERDE, P.E.
 LICENSE NUMBER 63546
 TRACE CONSULTANTS, INC.
 8900 SW 117 AVENUE, SUITE 105B
 MIAMI, FLORIDA 33186

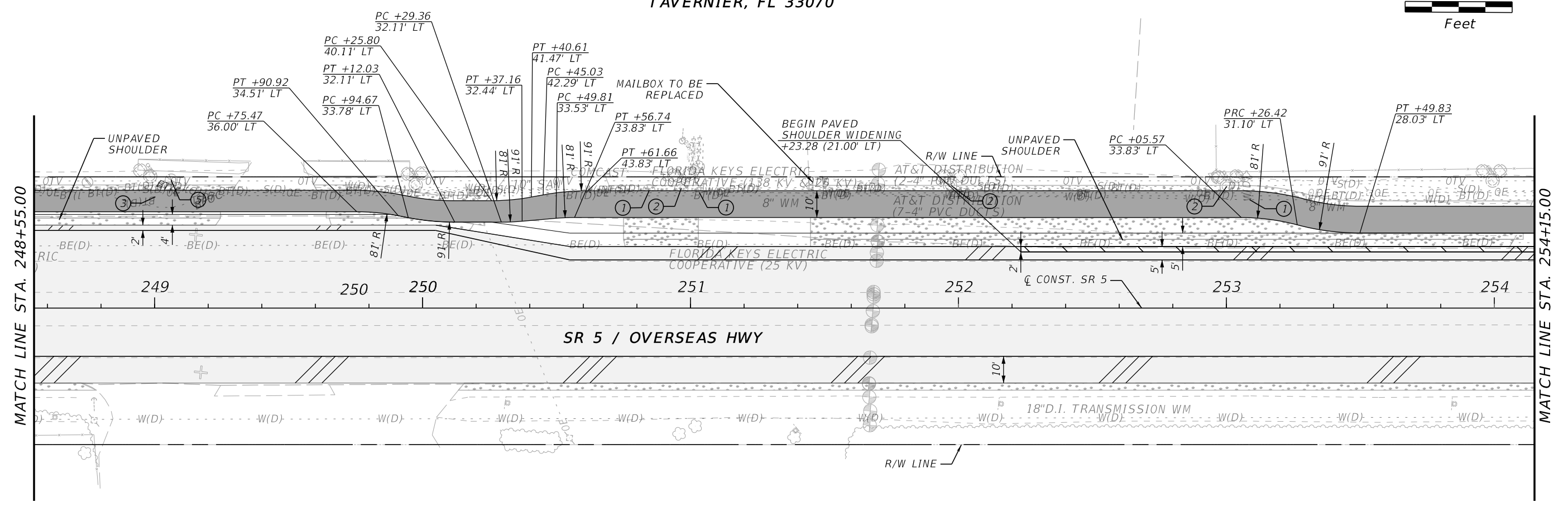
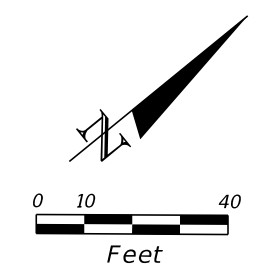
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

ROADWAY PLAN

SHEET NO.
37

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SOUTHEAST MOBILE CRANE SERVICE, INC
89070 OVERSEAS HWY,
TAVERNIER, FL 33070



ISLAMORADA DRY CLEANERS
89015 OVERSEAS HWY,
TAVERNIER, FL 33070

LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	WATER VALVE TO BE ADJUSTED BY FKA
	SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	MANHOLE TO BE ADJUSTED BY AT&T
	SANITARY VALVE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA

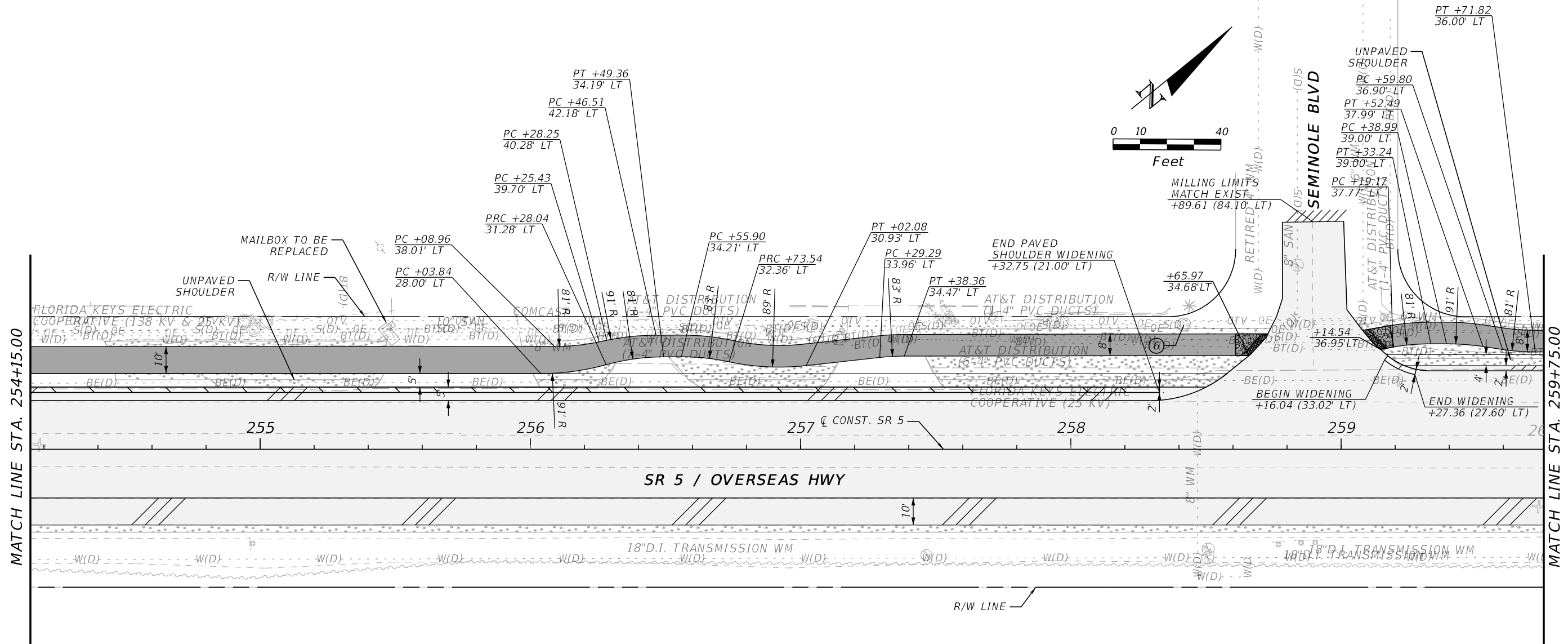
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	38

ROADWAY PLAN

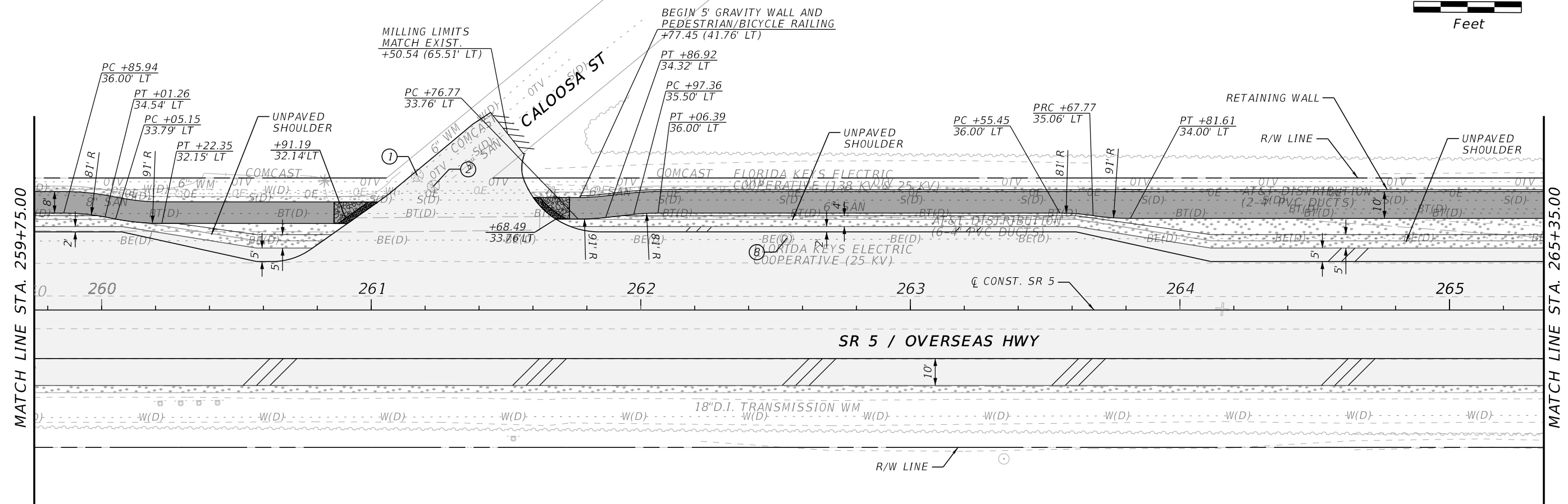
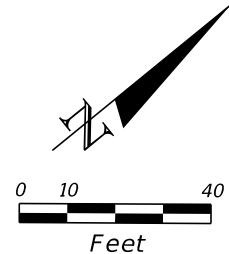
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LEGEND	
	SHOULDER WIDENING
	SHARED USE PATH
	MILLING, OVERBUILD AND RESURFACING
	DETECTABLE WARNING
	SOD (INCLUDES UNPAVED SHOULDER)
	CONCRETE SIDEWALK 6"
	PAVED SHOULDER
	SANITARY VACUUM CLEANER TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 39
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 5		

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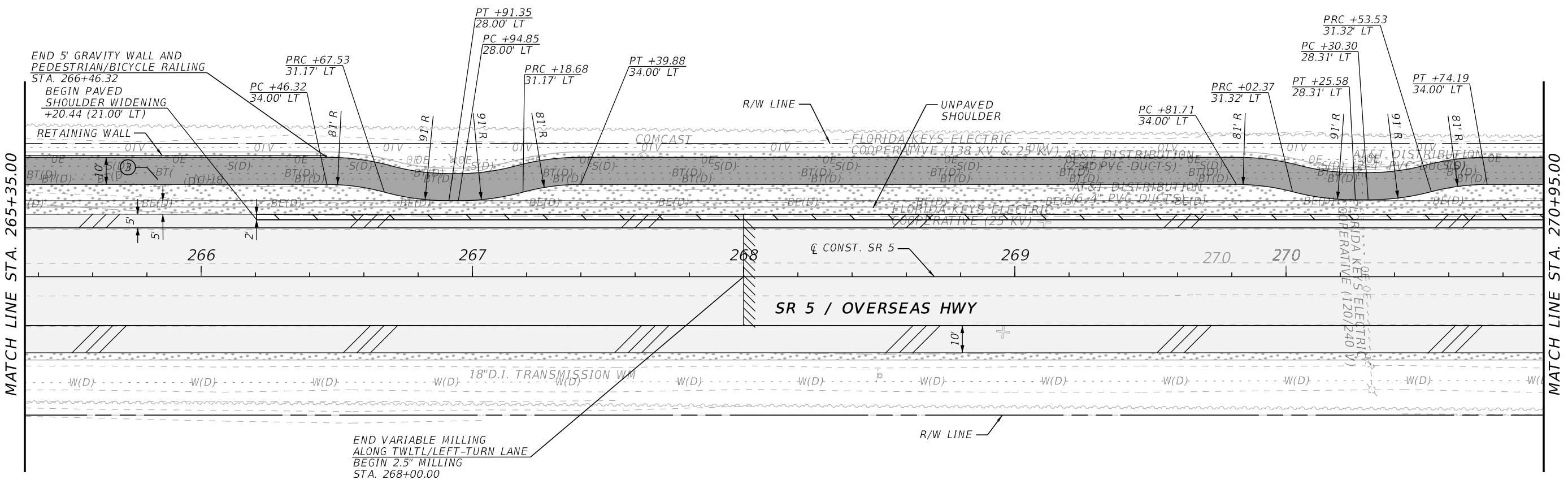
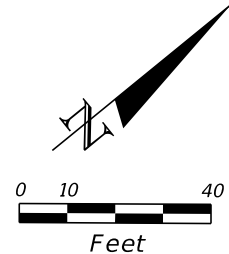
LEGEND					
	ROADWAY WIDENING		SHARED USE PATH		WATER VALVE TO BE ADJUSTED BY FKAJ
	MILLING, OVERBUILD AND RESURFACING		DETECTABLE WARNING		SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 6"		EXIST. MANHOLE TO BE ADJUSTED BY FKEC
	PAVED SHOULDER				

4/23/2023 12:18:34 PM jtovar Z:\DOT\Connect\10\10\Workspaces\FDOT\Worksets\FDOT\44781015201\Roadway\PLAN\RD01.dgn







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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		5	MONROE	447810-1-52-01	40

ROADWAY PLAN



LEGEND

-  SHOULDER WIDENING
-  MILLING, OVERBUILD AND RESURFACING
-  SOD (INCLUDES UNPAVED SHOULDER)
-  PAVED SHOULDER
-  SHARED USE PATH
-  MANHOLE TO BE ADJUSTED BY AT&T

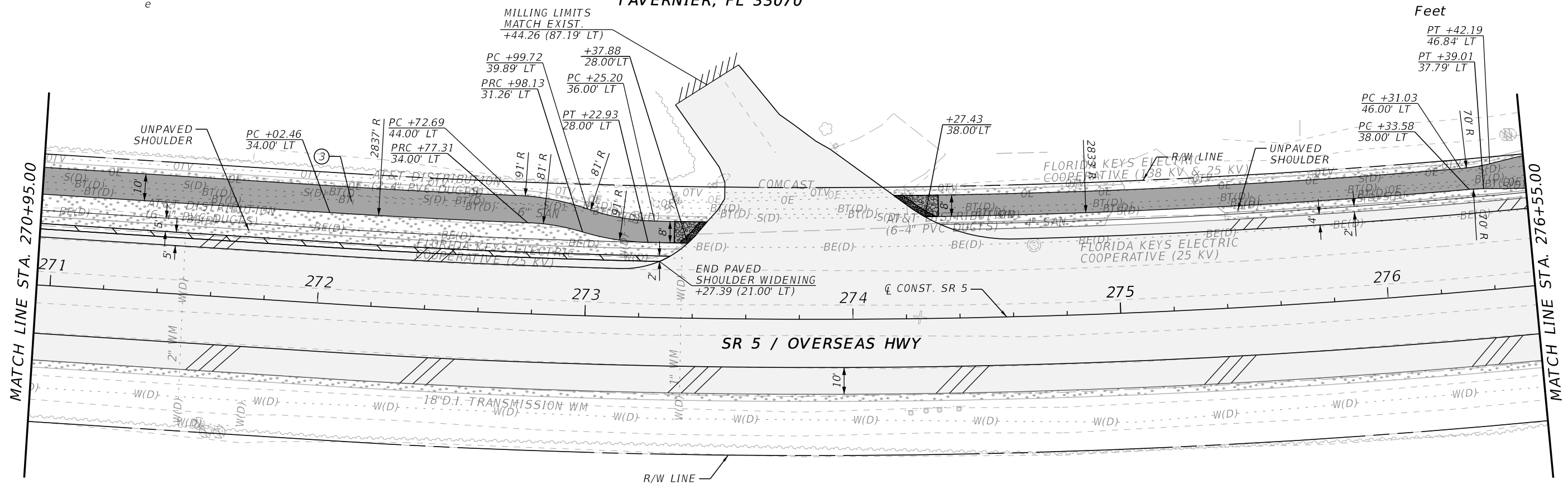
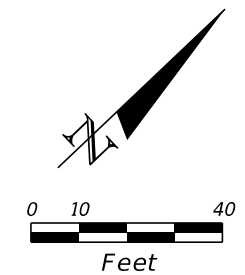
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	ROADWAY PLAN 41

CURVE DATA 2 B OF SURVEY
 PI STA. = 277+11.83
 = 19° 14' 08"
 D = 02° 00' 00"
 T = 485.48
 L = 961.83
 R = 2,864.93
 PC STA. = 272+26.34
 PT STA. = 281+85.35
 e

SAN PEDRO CATHOLIC CHURCH
8950 OVERSEAS HWY
TAVERNIER, FL 33070



LEGEND

SHOULDER WIDENING	SHARED USE PATH
MILLING, OVERBUILD AND RESURFACING	DETECTABLE WARNING
SOD (INCLUDES UNPAVED SHOULDER)	CONCRETE SIDEWALK 6"
PAVED SHOULDER	MANHOLE TO BE ADJUSTED BY AT&T

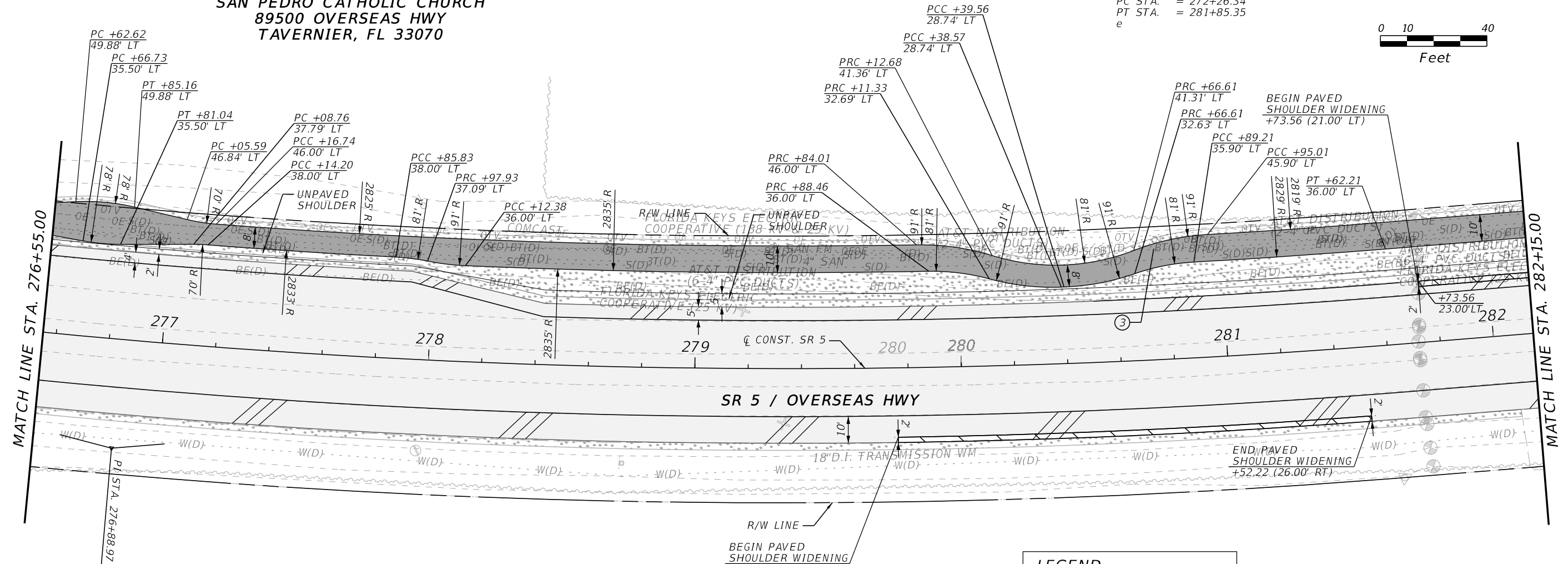
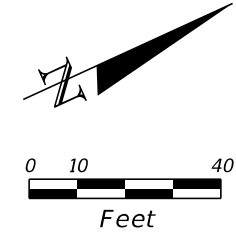
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 42
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-1-52-01		

**SAN PEDRO CATHOLIC CHURCH
8950 OVERSEAS HWY
TAVERNIER, FL 33070**

CURVE DATA 2 OF SURVEY
 PI STA. = 277+11.83
 = 19° 14' 08"
 D = 02° 00' 00"
 T = 485.48
 L = 961.83
 R = 2,864.93
 PC STA. = 272+26.34
 PT STA. = 281+85.35
 e



LEGEND

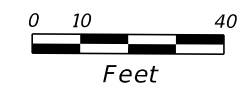
- SHOULDER WIDENING
- MILLING, OVERBUILD AND RESURFACING
- SOD (INCLUDES UNPAVED SHOULDER)
- PAVED SHOULDER
- SHARED USE PATH
- MANHOLE TO BE ADJUSTED BY AT&T

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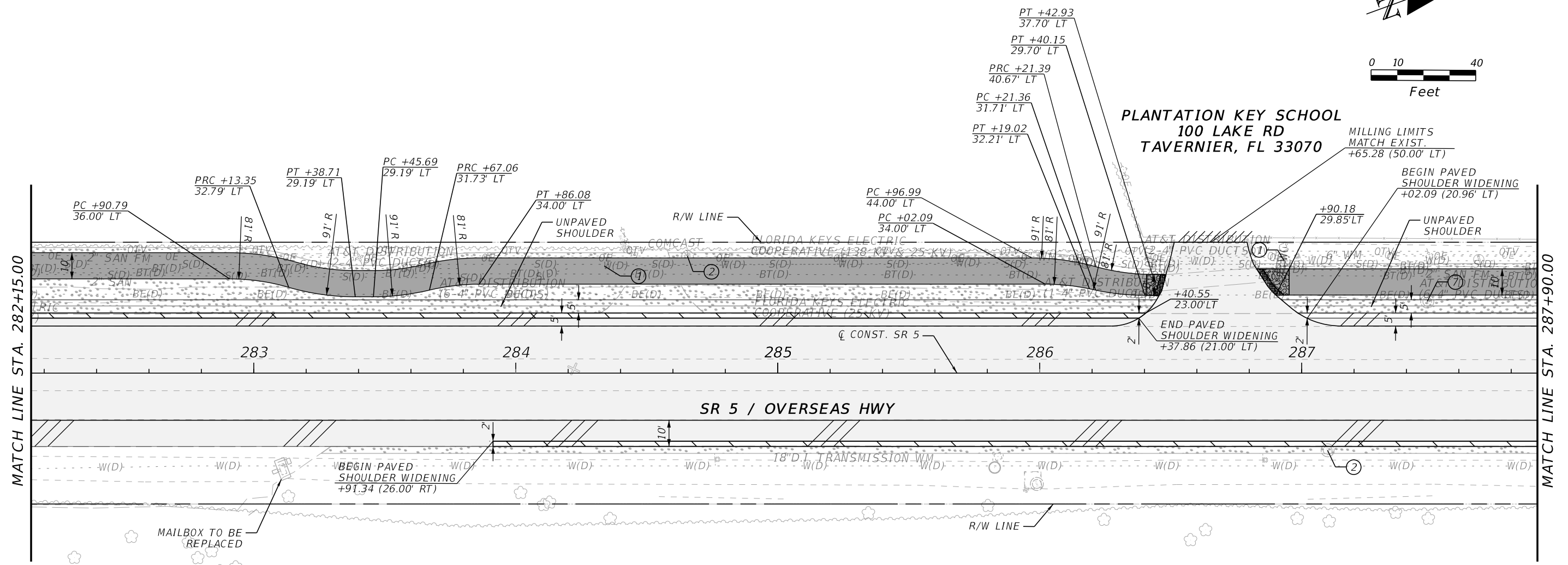
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	43

ROADWAY PLAN



**PLANTATION KEY SCHOOL
100 LAKE RD
TAVERNIER, FL 33070**



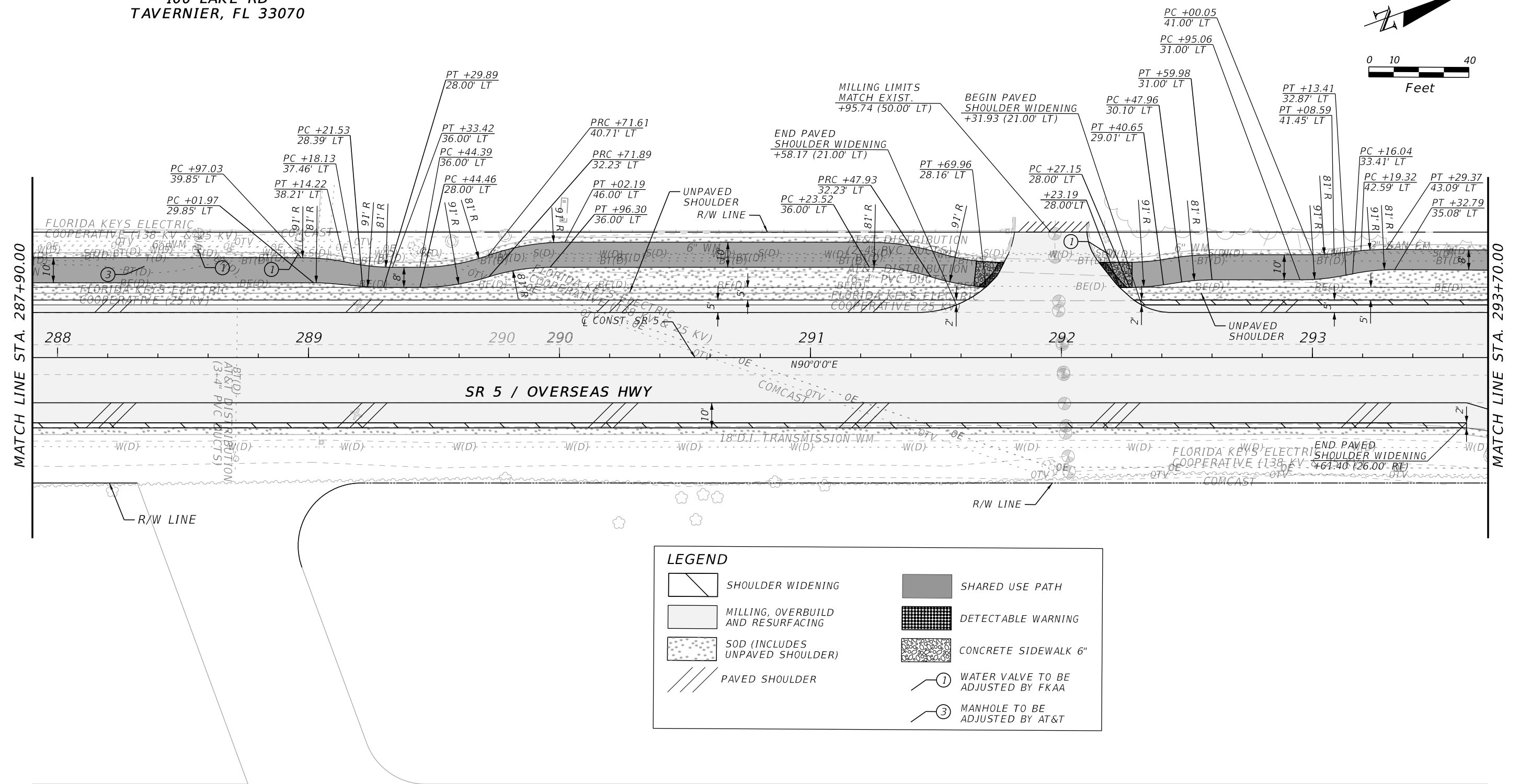
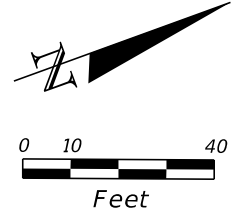
LEGEND					
	SHOULDER WIDENING		SHARED USE PATH		WATER VALVE TO BE ADJUSTED BY FCAA
	MILLING, OVERBUILD AND RESURFACING		DETECTABLE WARNING		SANITARY MANHOLE TO BE ADJUSTED BY THE VILLAGE OF ISLAMORADA
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 6"		FIRE HYDRANT TO BE ADJUSTED BY FCAA
	PAVED SHOULDER				

4/23/2023 12:18:39 PM jtovar Z:\DOT\Connect\10\10\Workspaces\FDOT\Worksets\FDOT\44781015201.Roadway\PLANR001.dgn

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO. 44
DATE	DESCRIPTION	DATE	DESCRIPTION	FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 5	MONROE	447810-1-52-01		

PLANTATION KEY SCHOOL
100 LAKE RD
TAVERNIER, FL 33070



LEGEND	
	SHOULDER WIDENING
	MILLING, OVERBUILD AND RESURFACING
	SOD (INCLUDES UNPAVED SHOULDER)
	PAVED SHOULDER
	SHARED USE PATH
	DETECTABLE WARNING
	CONCRETE SIDEWALK 6"
	WATER VALVE TO BE ADJUSTED BY FKA
	MANHOLE TO BE ADJUSTED BY AT&T

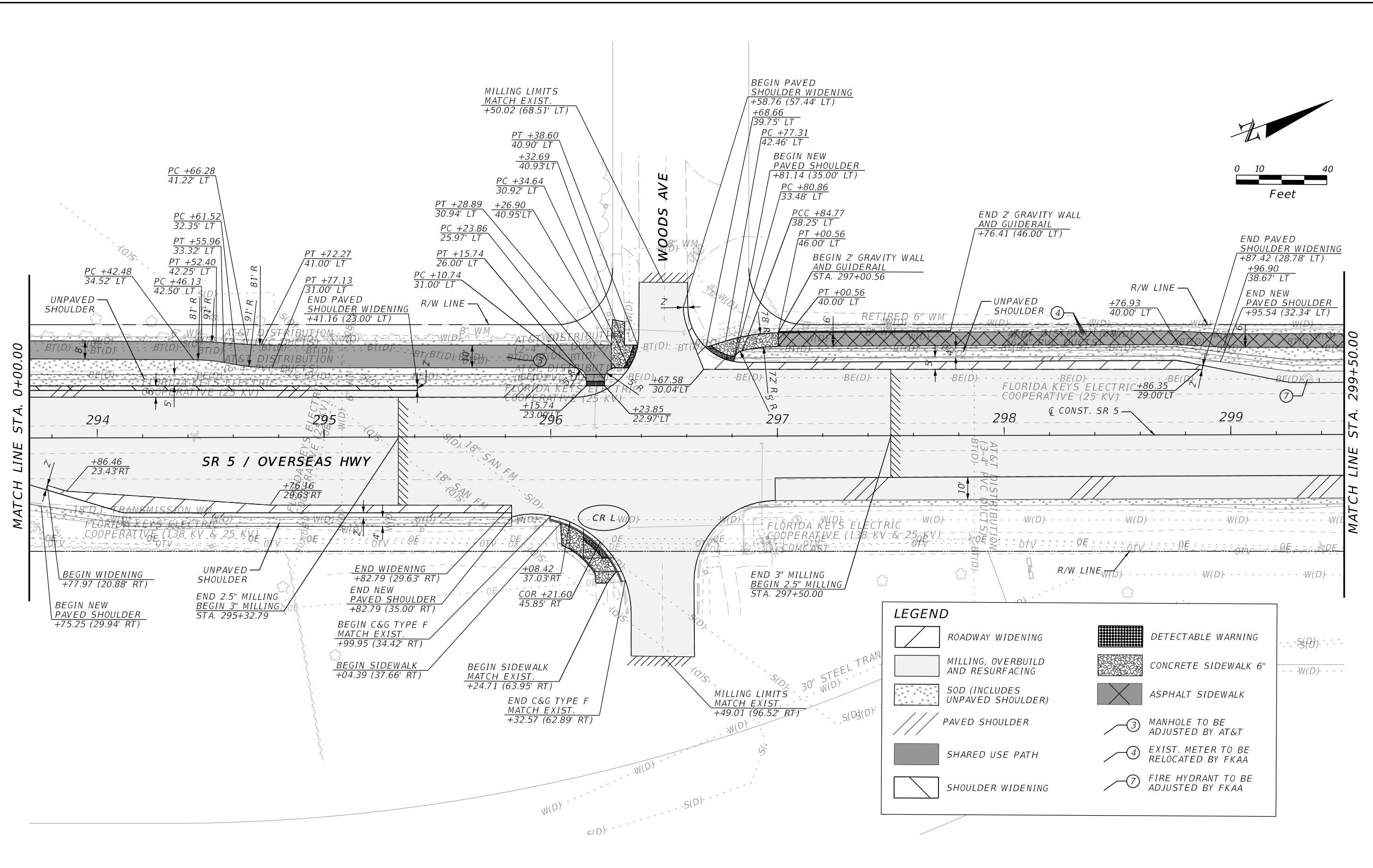
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REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186	SR 5	MONROE	447810-1-52-01	45

ROADWAY PLAN

4/23/2023 12:18:41 PM jtovar
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LEGEND

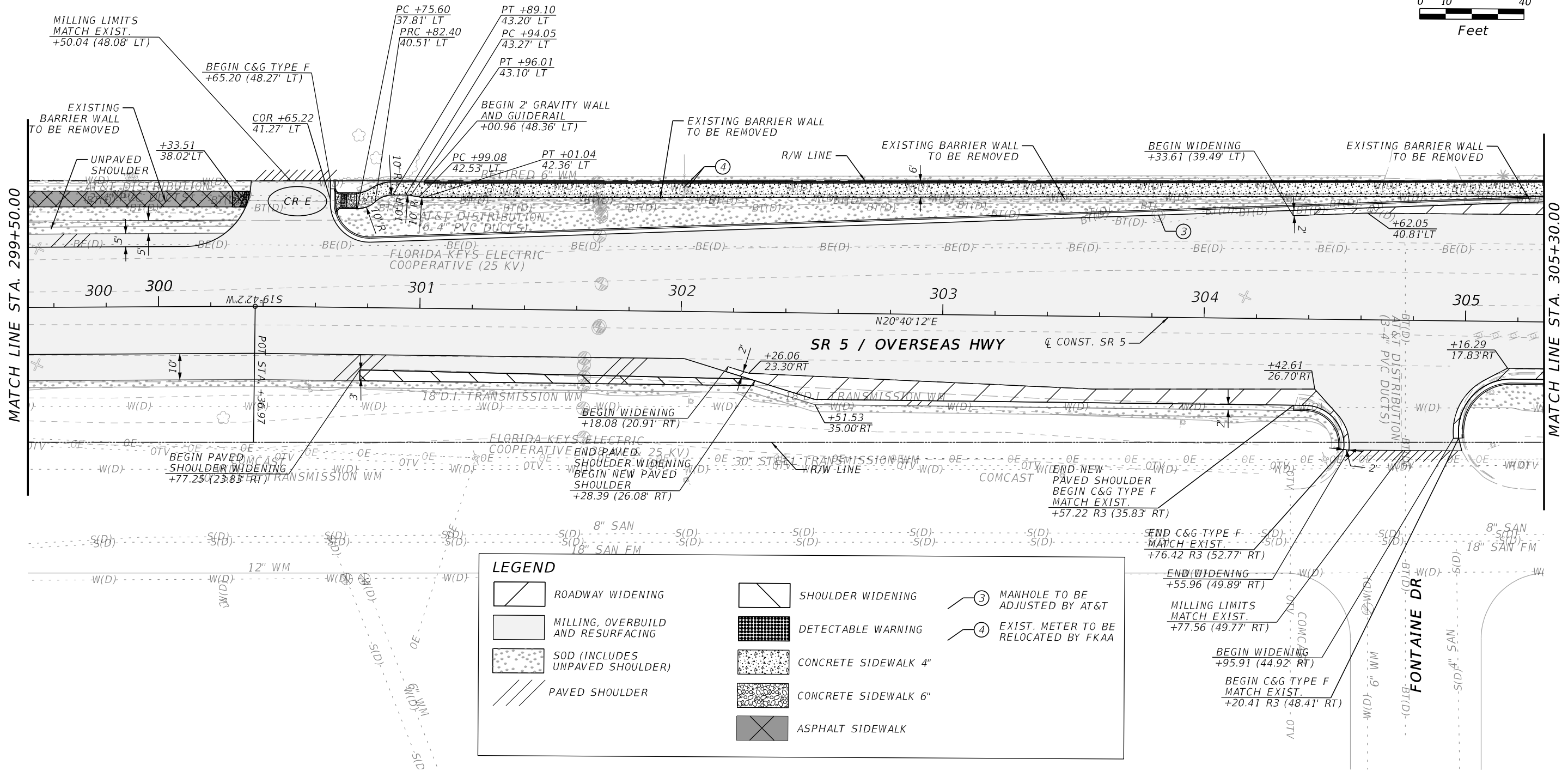
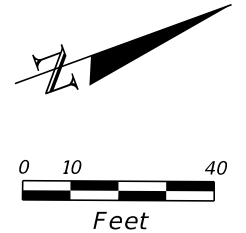
	ROADWAY WIDENING		DETECTABLE WARNING
	MILLING, OVERBUILD AND RESURFACING		CONCRETE SIDEWALK 6"
	SOD (INCLUDES UNPAVED SHOULDER)		ASPHALT SIDEWALK
	PAVED SHOULDER		MANHOLE TO BE ADJUSTED BY AT&T
	SHARED USE PATH		EXIST. METER TO BE RELOCATED BY FKA
	SHOULDER WIDENING		FIRE HYDRANT TO BE ADJUSTED BY FKA

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	46

ROADWAY PLAN

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89990 OVERSEAS HWY
TAVERNIER, FL 33070



LEGEND

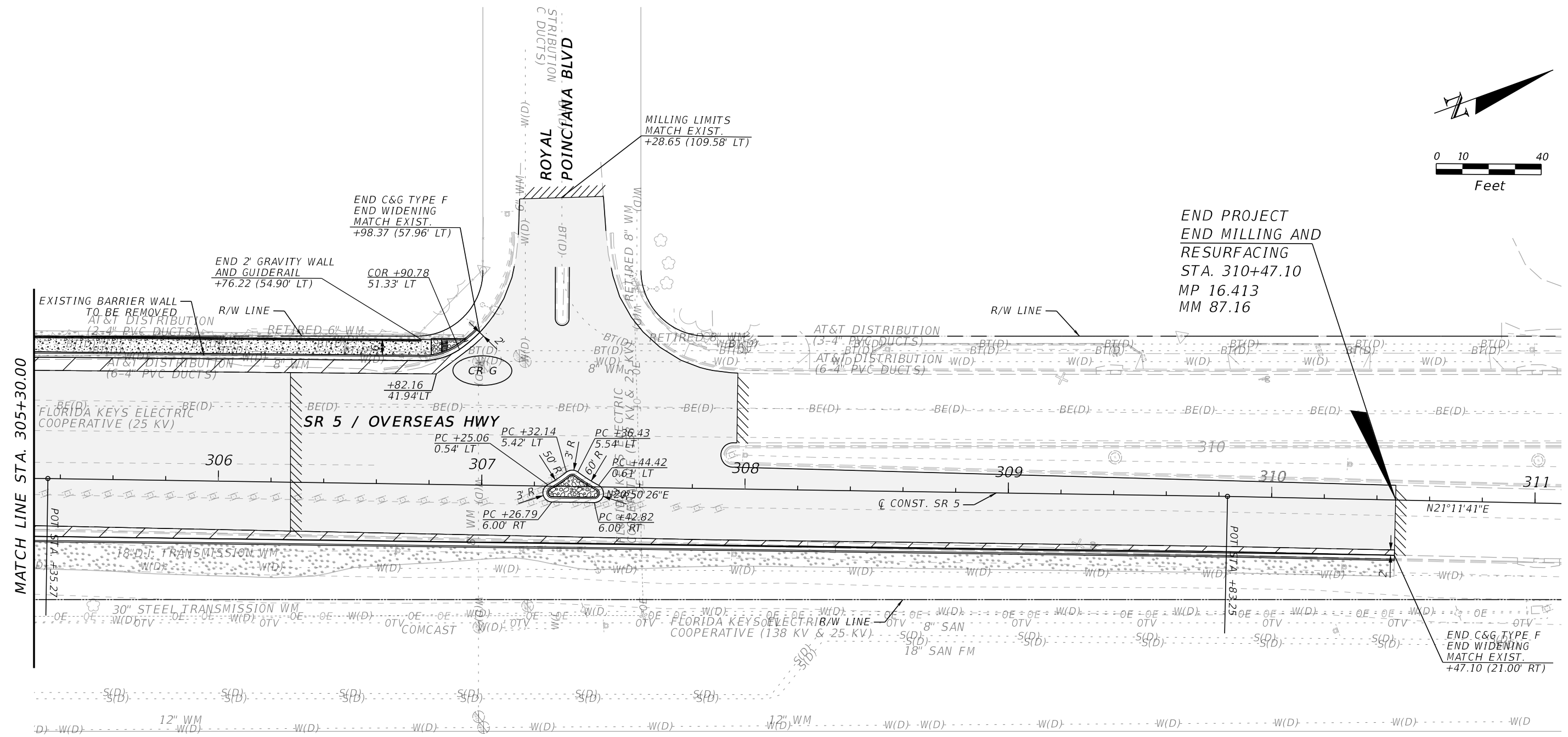
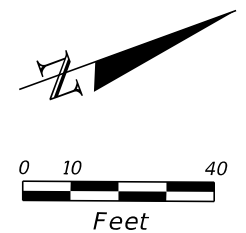
	ROADWAY WIDENING		SHOULDER WIDENING		MANHOLE TO BE ADJUSTED BY AT&T
	MILLING, OVERBUILD AND RESURFACING		DETECTABLE WARNING		EXIST. METER TO BE RELOCATED BY FKA
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 4"		
	PAVED SHOULDER		CONCRETE SIDEWALK 6"		
			ASPHALT SIDEWALK		

4/23/2023 12:18:42 PM jtovar Z:\DOT\Connect\10\10\Workspaces\FDOT\Worksets\FDOT\44781015201.Roadway\PLAN\RD01.dgn

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	47

ROADWAY PLAN



LEGEND

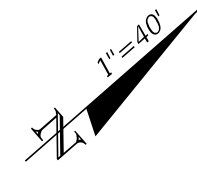
	ROADWAY WIDENING		SHARED USE PATH
	MILLING, OVERBUILD AND RESURFACING		DETECTABLE WARNING
	SOD (INCLUDES UNPAVED SHOULDER)		CONCRETE SIDEWALK 4"
	PAVED SHOULDER		CONCRETE SIDEWALK 6"

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				FAVIO A. LAVERDE, P.E. LICENSE NUMBER 63546 TRACE CONSULTANTS, INC. 8900 SW 117 AVENUE, SUITE 105B MIAMI, FLORIDA 33186		SR 5	MONROE	447810-1-52-01	48

ROADWAY PLAN

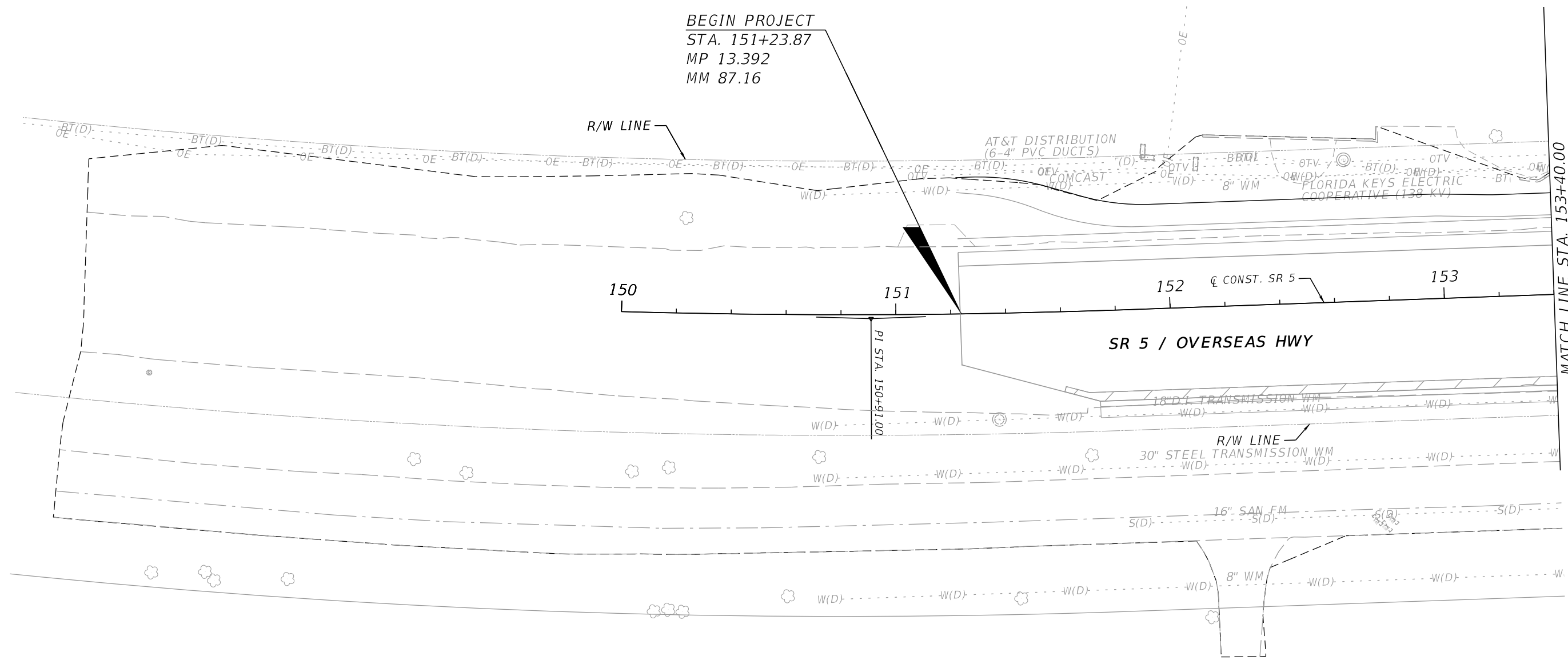
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**PLANTATION
HAMMOCK PRESERVE**

BEGIN PROJECT
STA. 151+23.87
MP 13.392
MM 87.16



**87201 OLD HWY
ISLAMORADA, FL 33036**

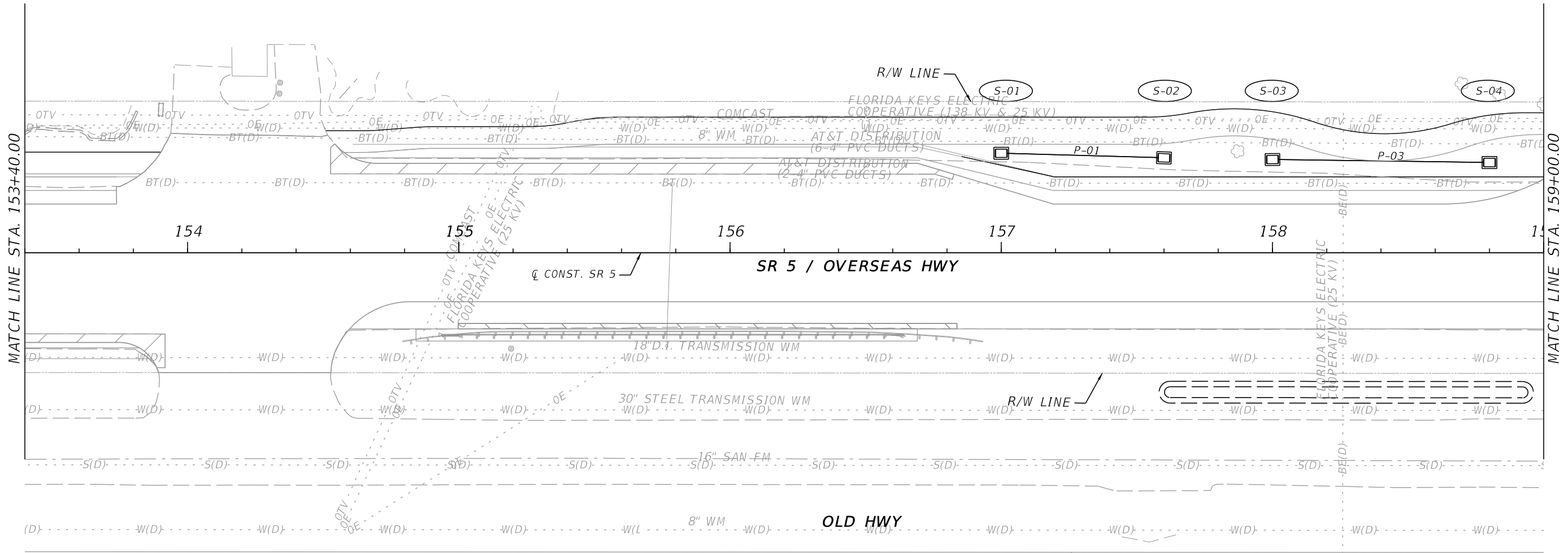
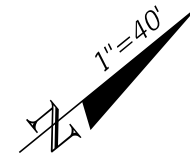
MATCH LINE STA. 153+40.00

4/21/2023 11:44:20 AM Barahona
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									49

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87200 OVERSEAS HWY
ISLAMORADA, FL 33036



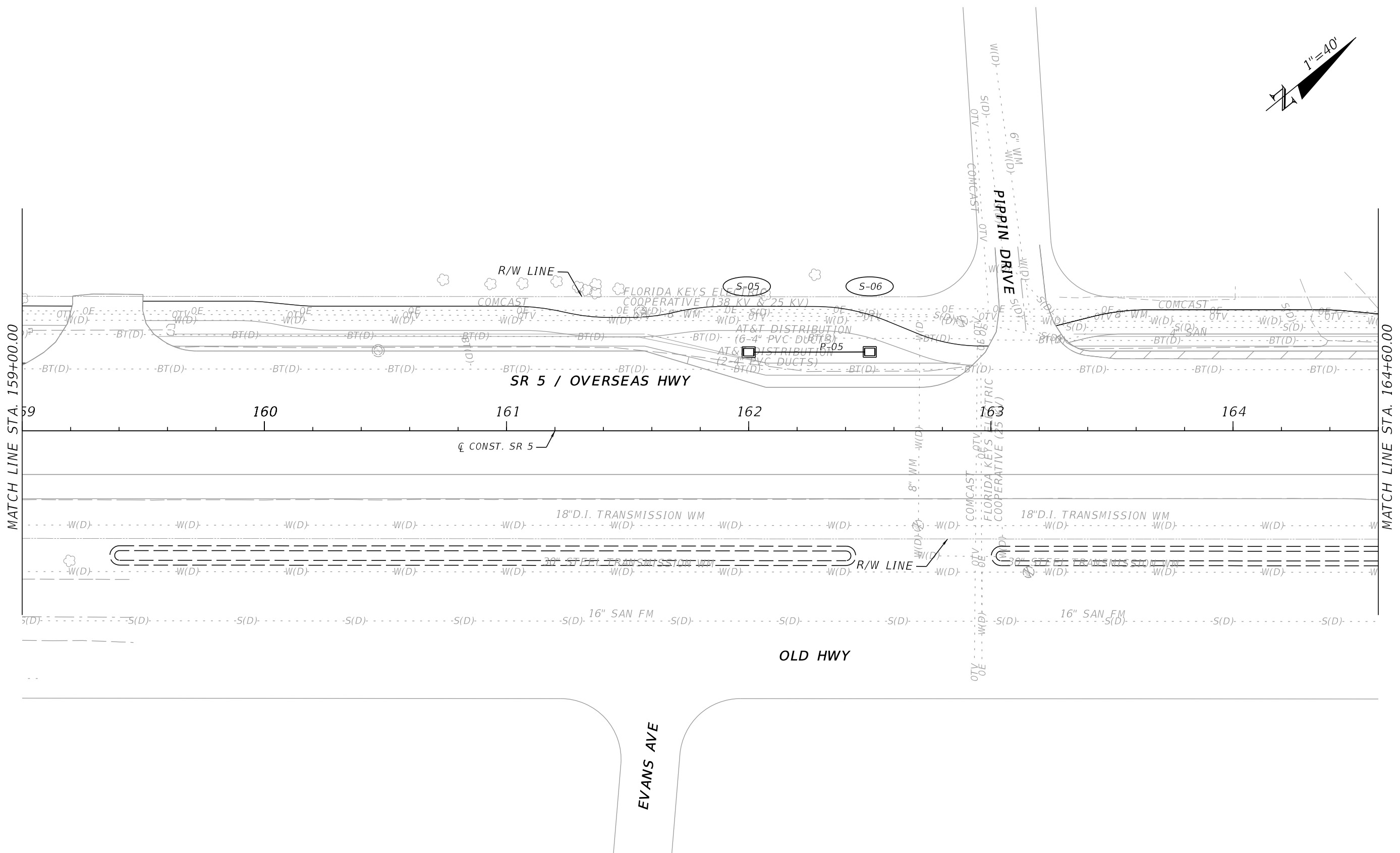
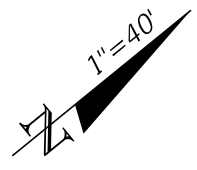
MATCH LINE STA. 153+40.00

MATCH LINE STA. 159+00.00

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									50	

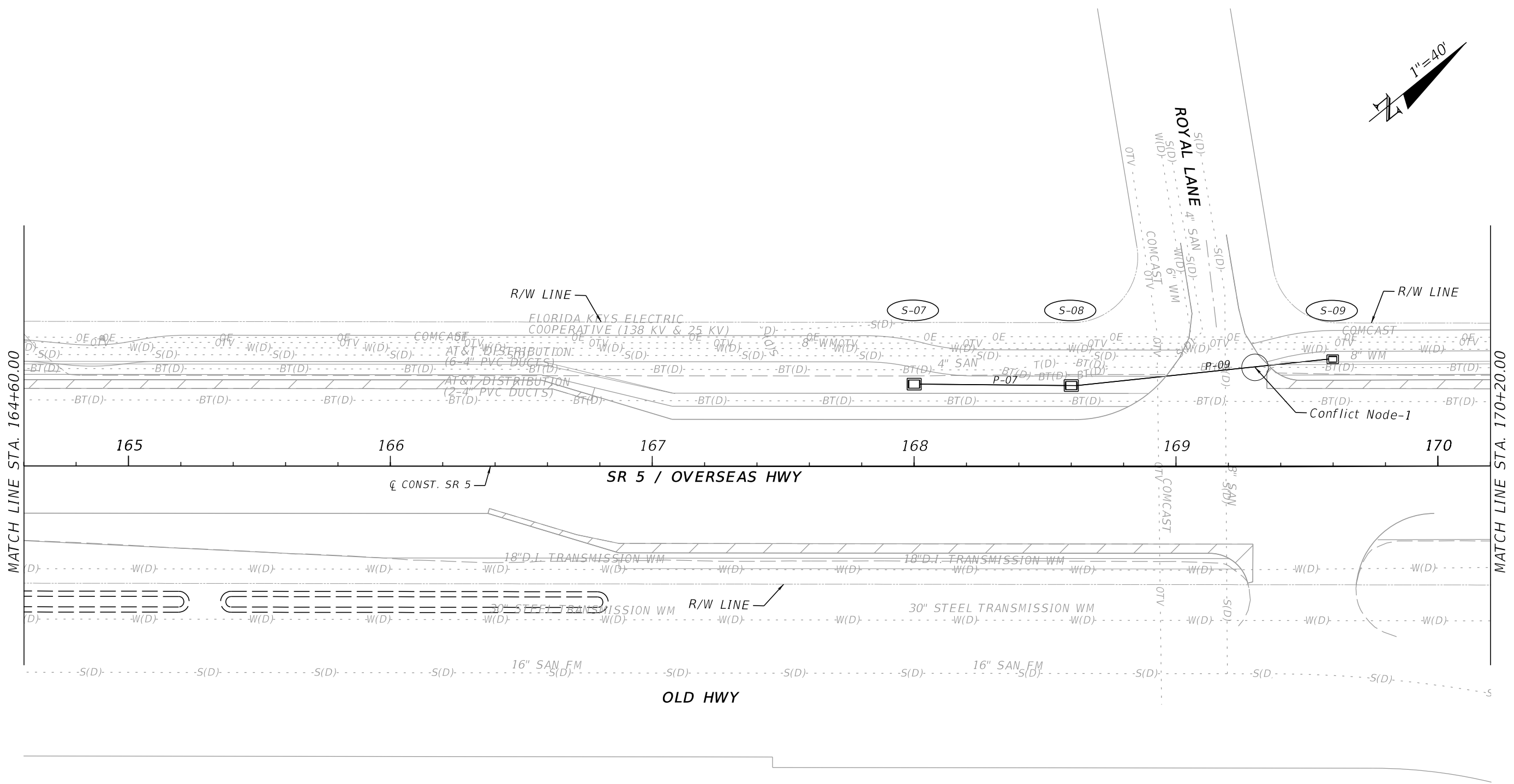
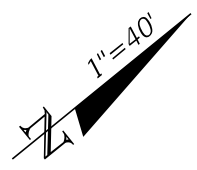
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES								51	

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MATCH LINE STA. 164+60.00

MATCH LINE STA. 170+20.00

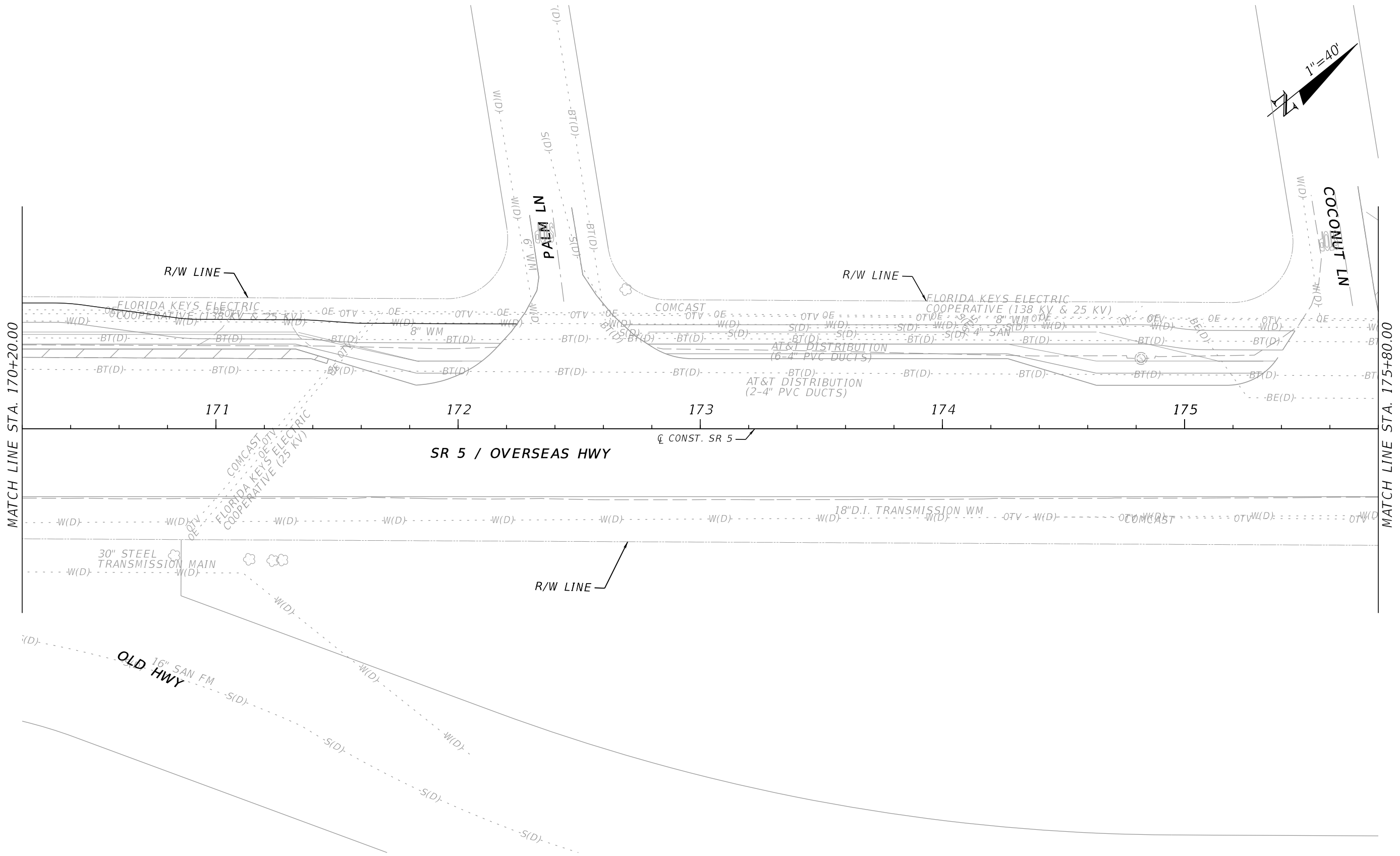
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	

DRAINAGE STRUCTURES

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REVISIONS			
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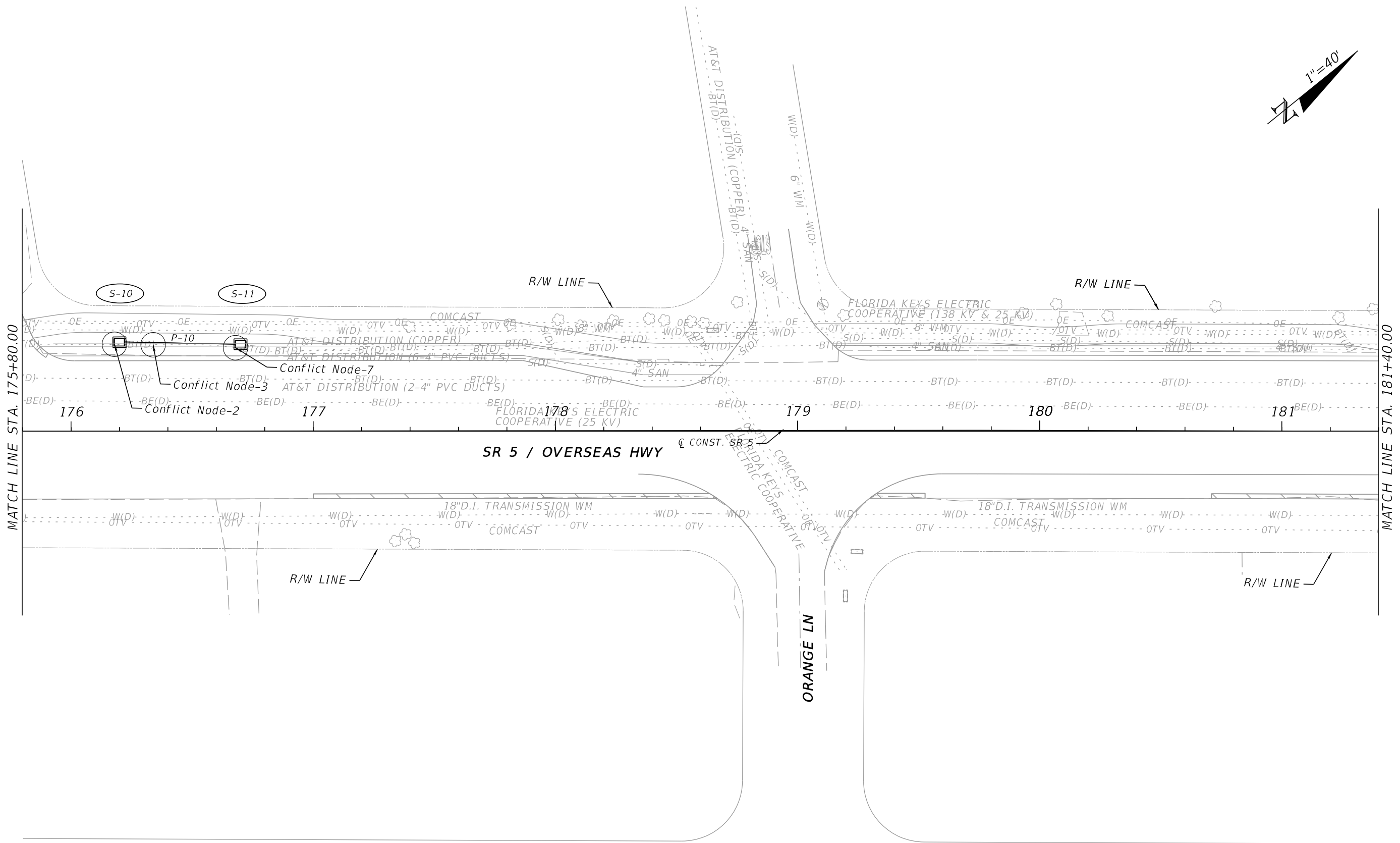
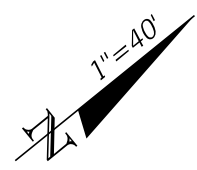
ENGINEER OF RECORD
 PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
53

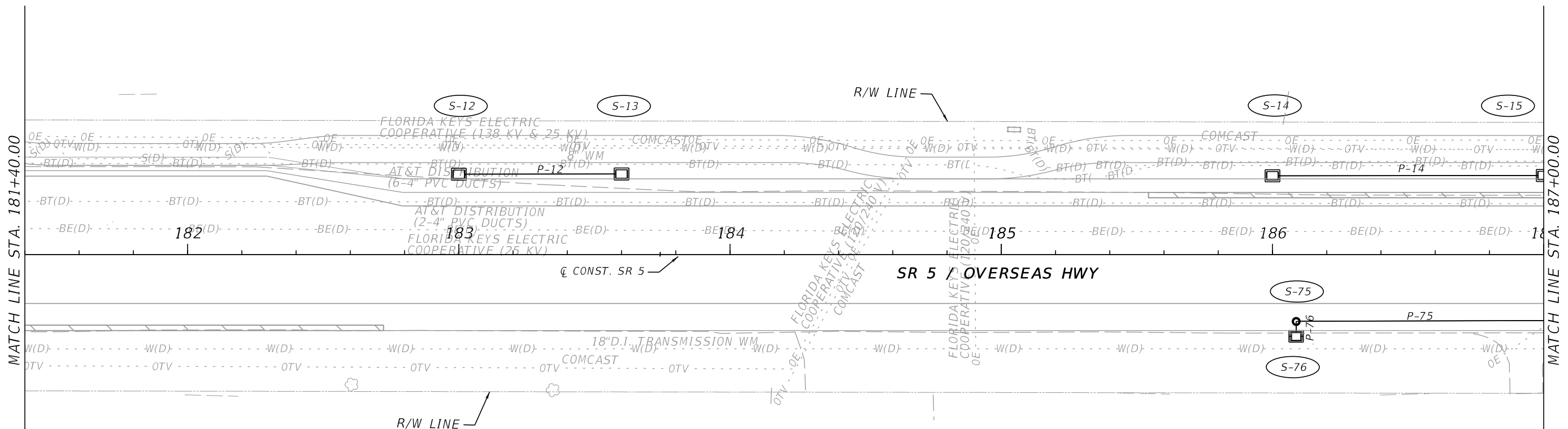
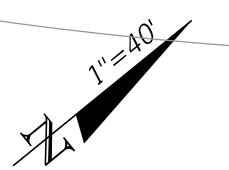
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			SR 5	MONROE	447810-1-52-01	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



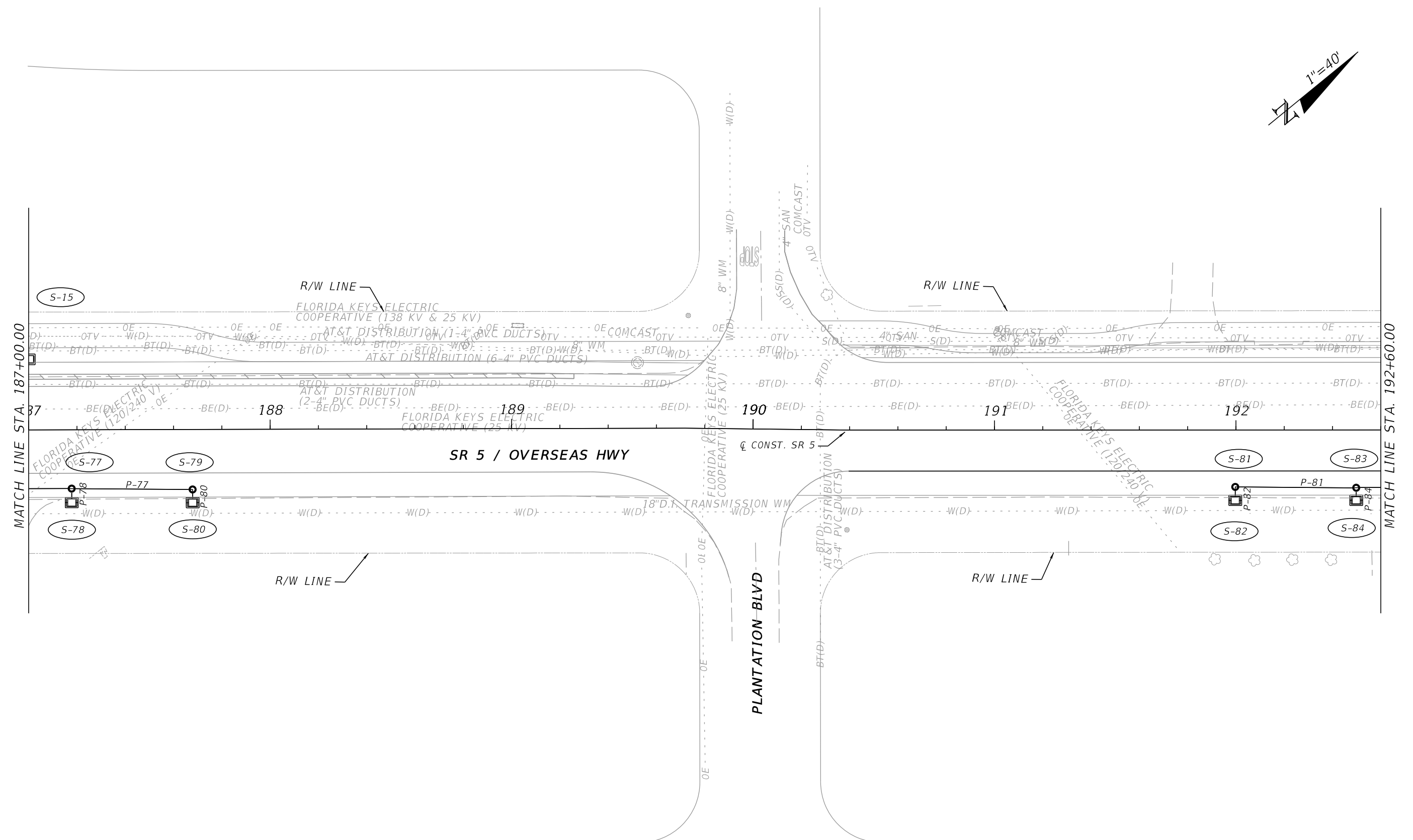
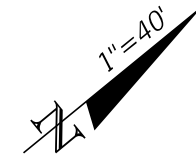
MILLER MARINE BOAT CENTER
 87861 OVERSEAS HWY,
 ISLAMORADA, FL 33036

4/21/2023 11:44:47 AM Barahona c:\pw\work\rs\sh_pw\pw_user\0442396\DRPRRD01.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
				SR 5		MONROE	447810-1-52-01	55	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126					

DRAINAGE STRUCTURES

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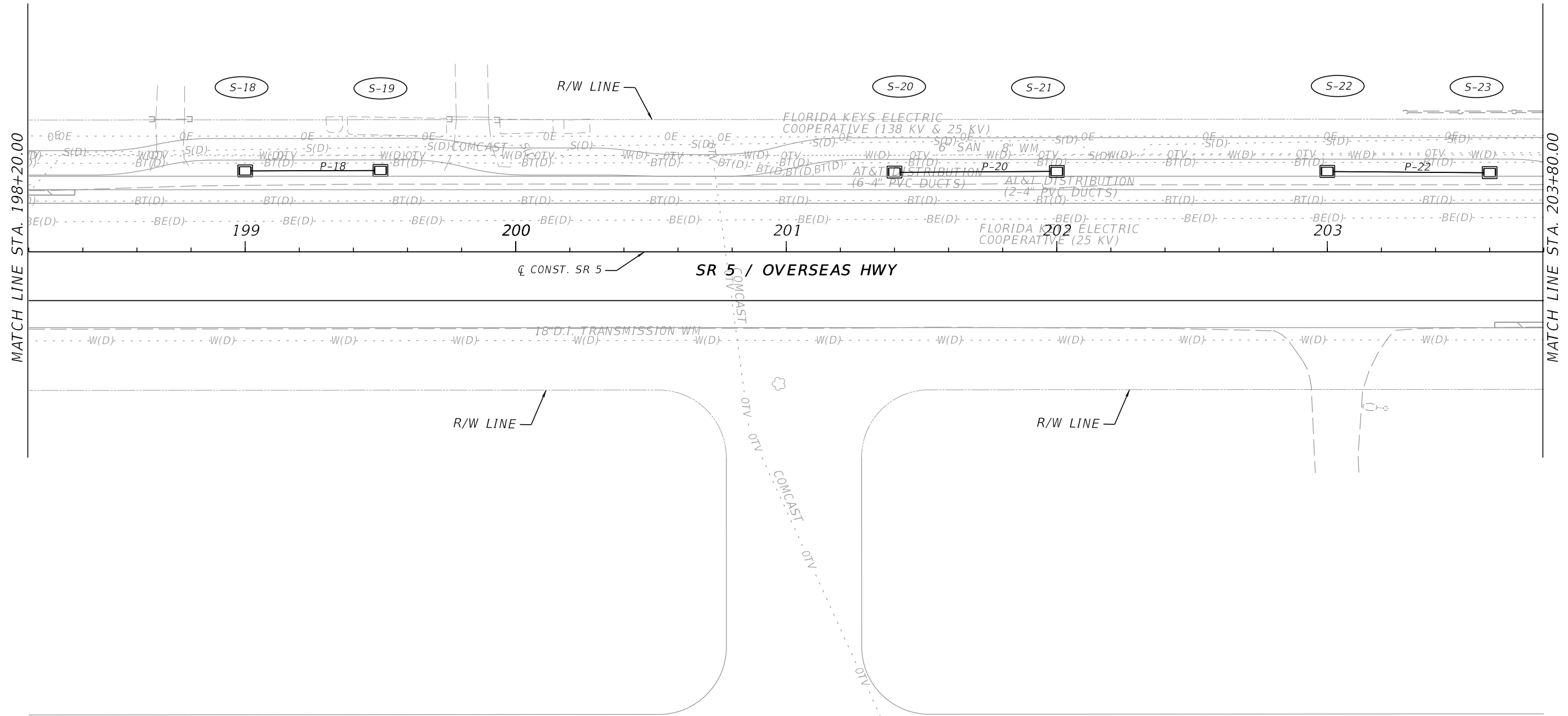
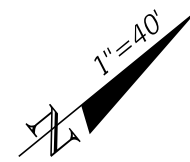


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									56

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88170 OVERSEAS HWY
ISLAMORADA, FL 33036



MATCH LINE STA. 198+20.00

MATCH LINE STA. 203+80.00

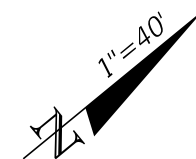
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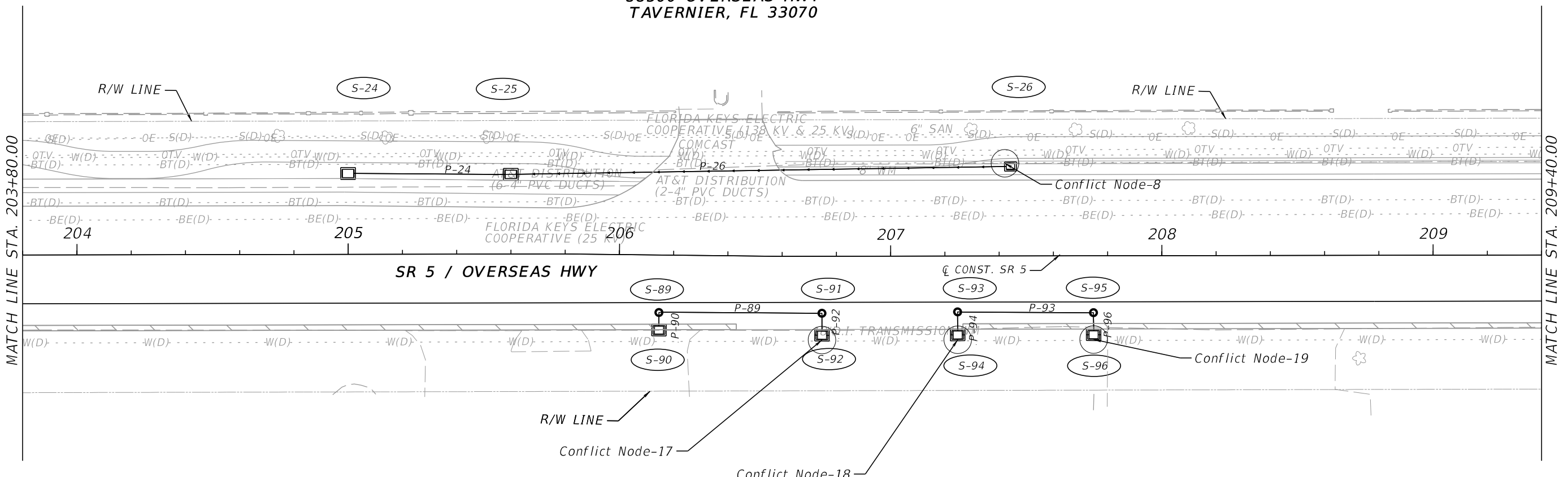
REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 5	MONROE	447810-1-52-01	58

DRAINAGE STRUCTURES

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**SUMMER SEA CONDOMINIUM
88500 OVERSEAS HWY
TAVERNIER, FL 33070**



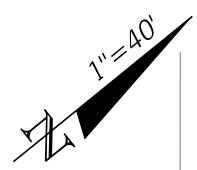
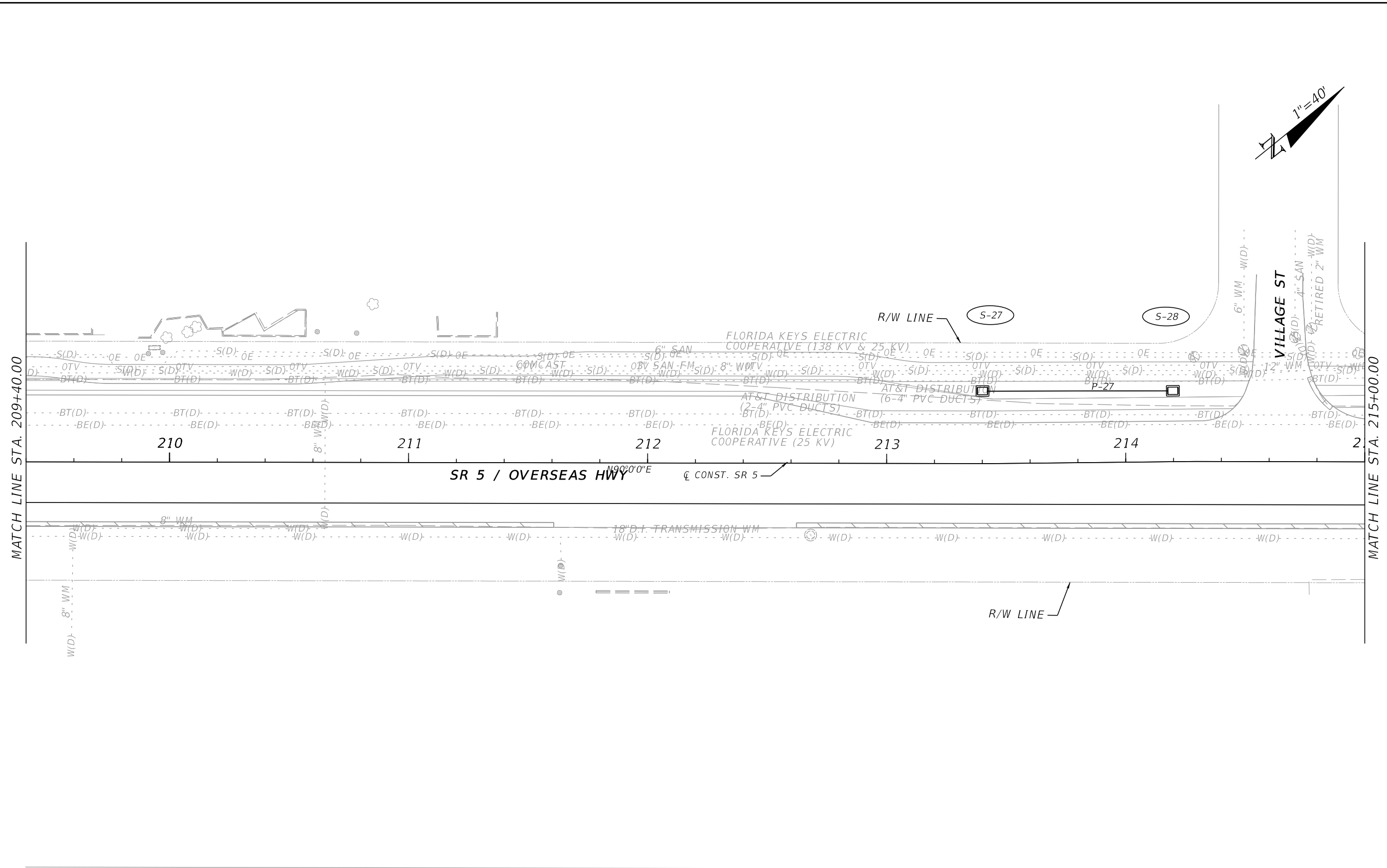
**HARDWARE STORE
88509 OVERSEAS HWY
TAVERNIER, FL 33070**

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			SR 5	MONROE	447810-1-52-01	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

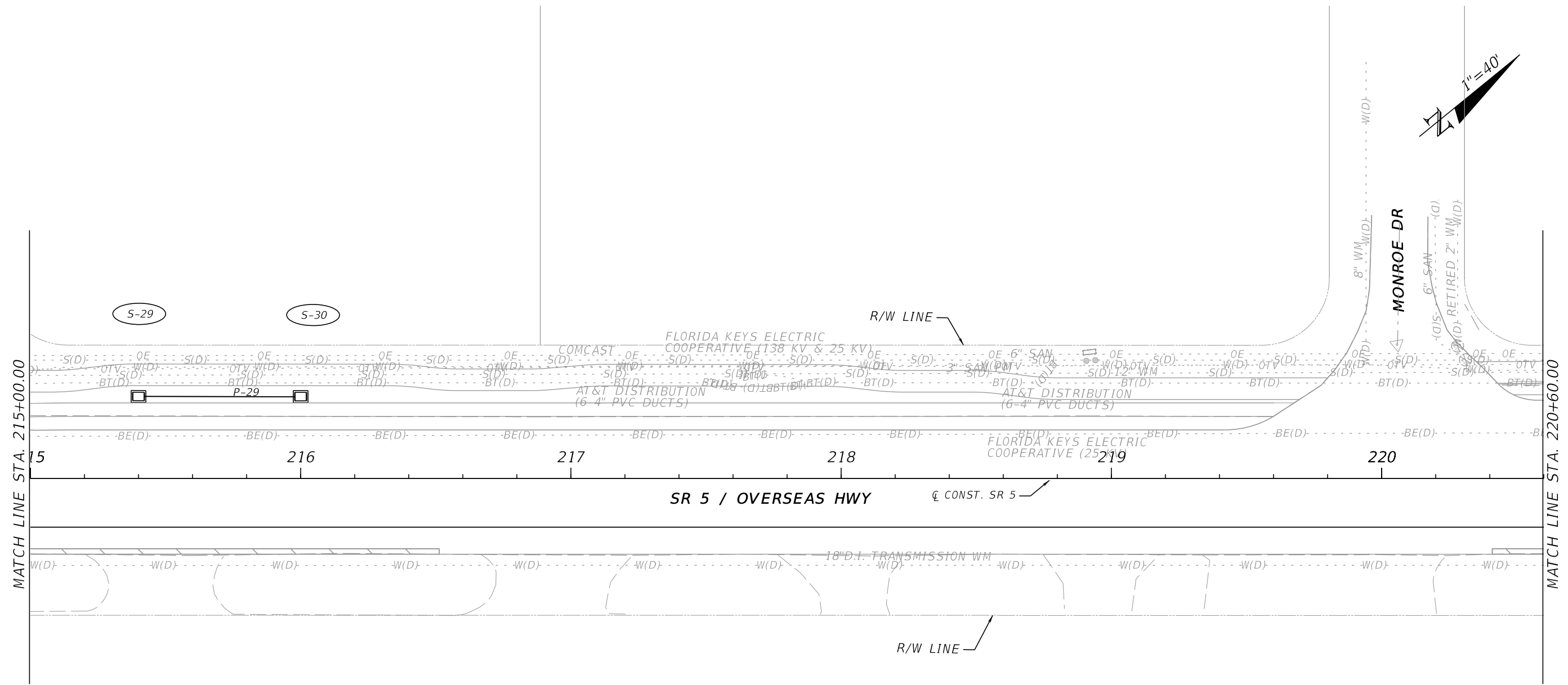
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									60

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

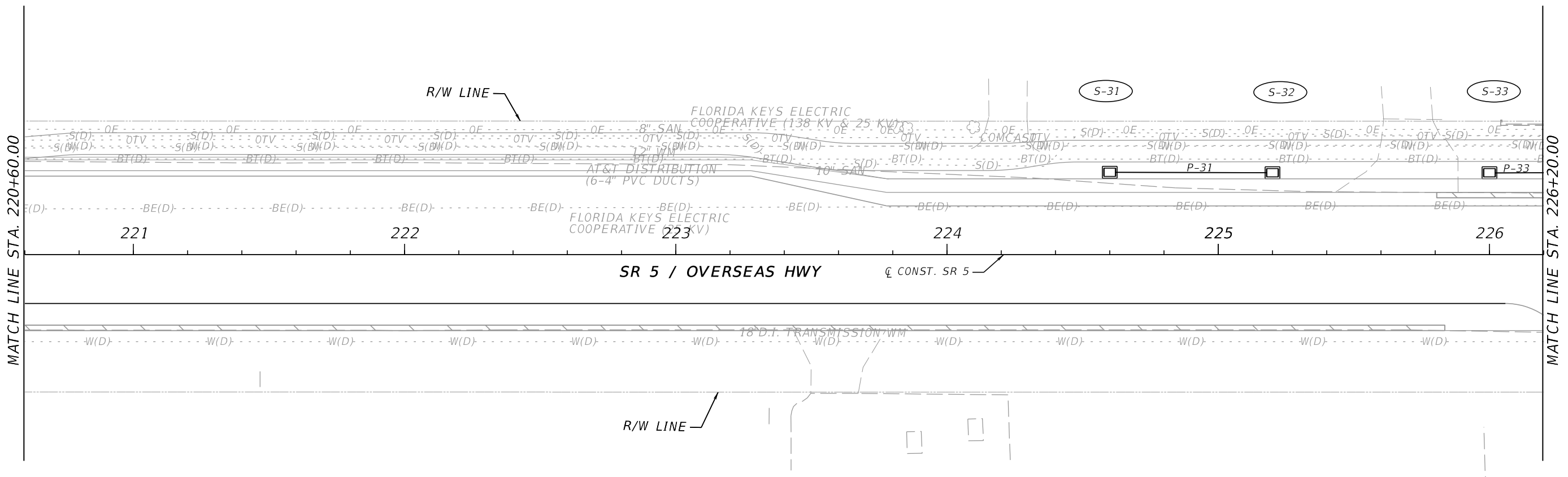
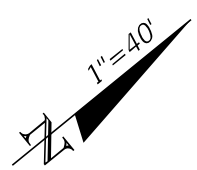
ENGINEER OF RECORD
 PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
61

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

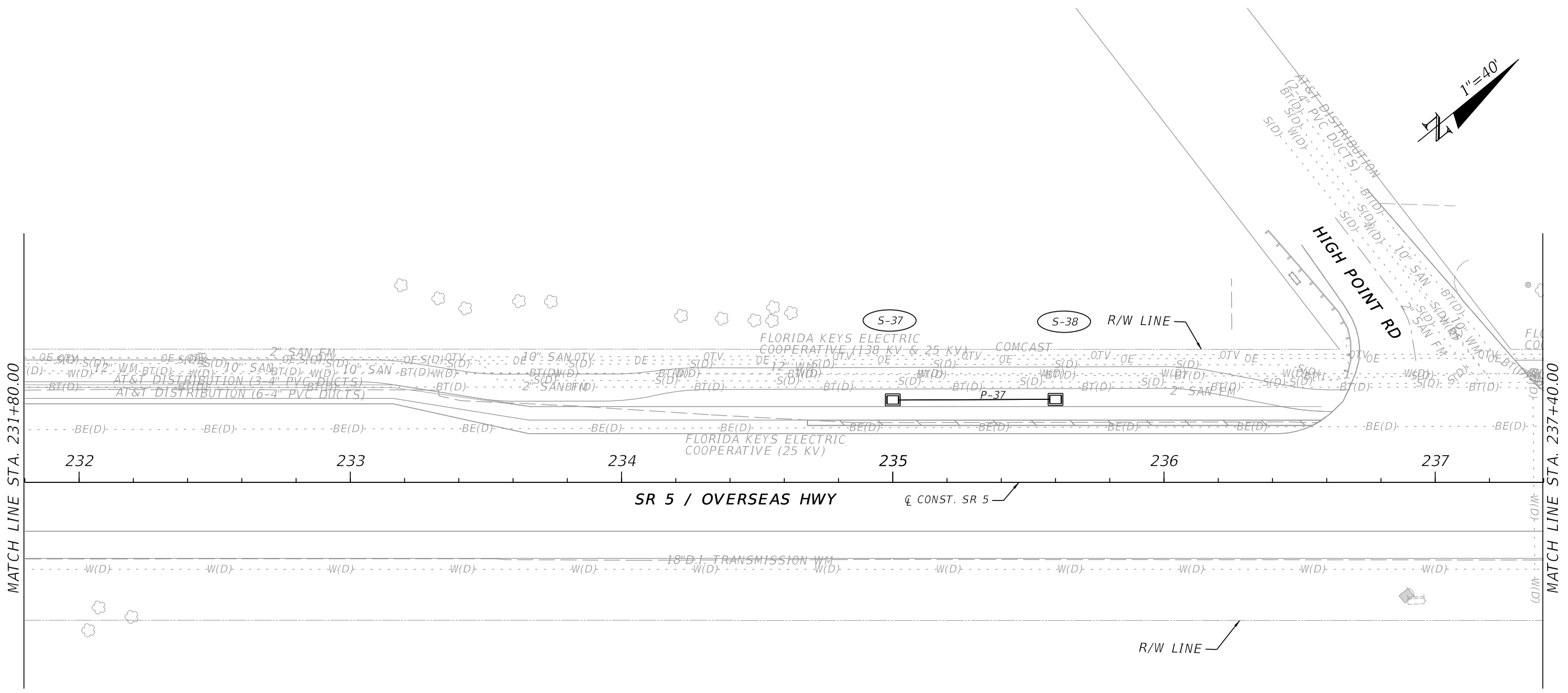
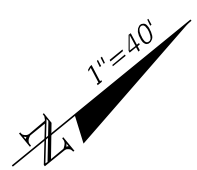


CORNERSTONE CONSTRUCTION
 88701 OVERSEAS HWY
 TAVERNIER, FL 33070

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
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				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		STORMWATER POLLUTION DRAINAGE STRUCTURES PREVENTION PLAN (SWPPP)			

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

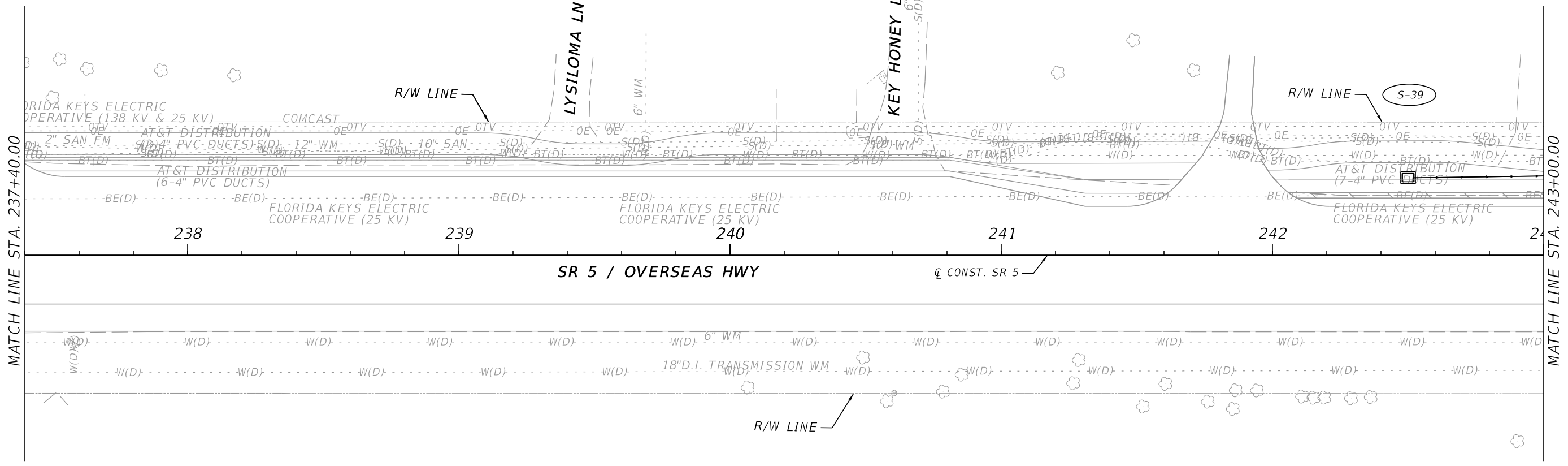
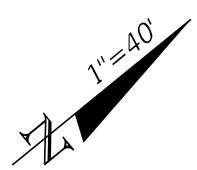


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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 5	MONROE	447810-1-52-01	64

DRAINAGE STRUCTURES

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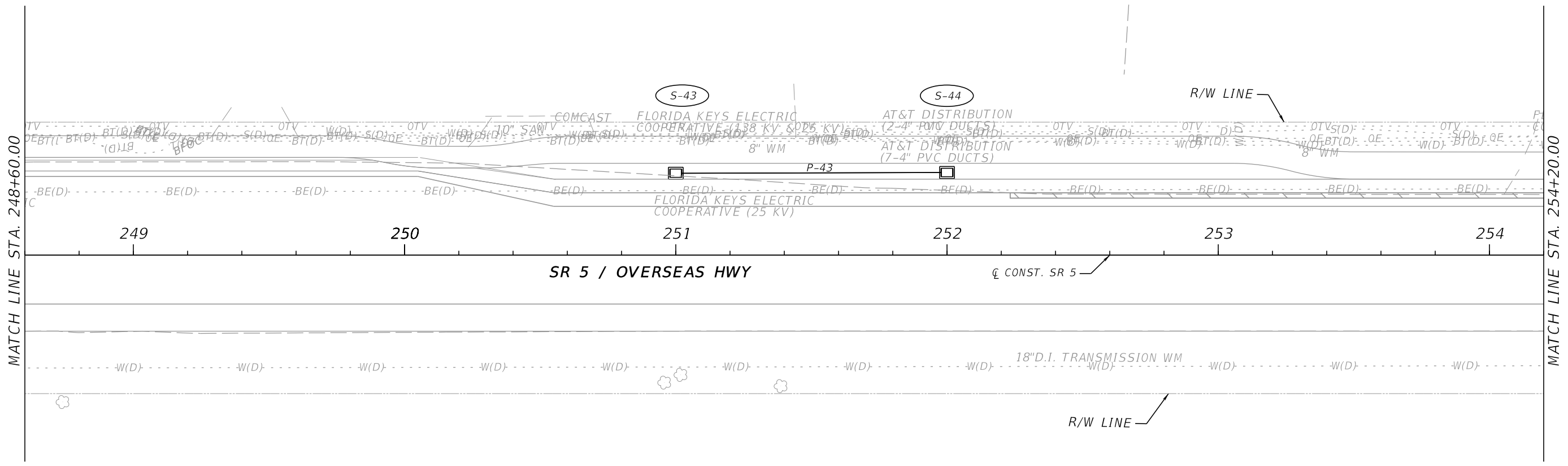
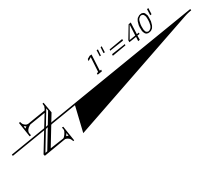


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									65

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SOUTHEAST MOBILE CRANE SERVICE, INC
 89070 OVERSEAS HWY,
 TAVERNIER, FL 33070



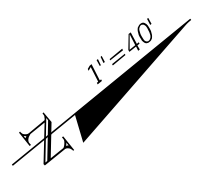
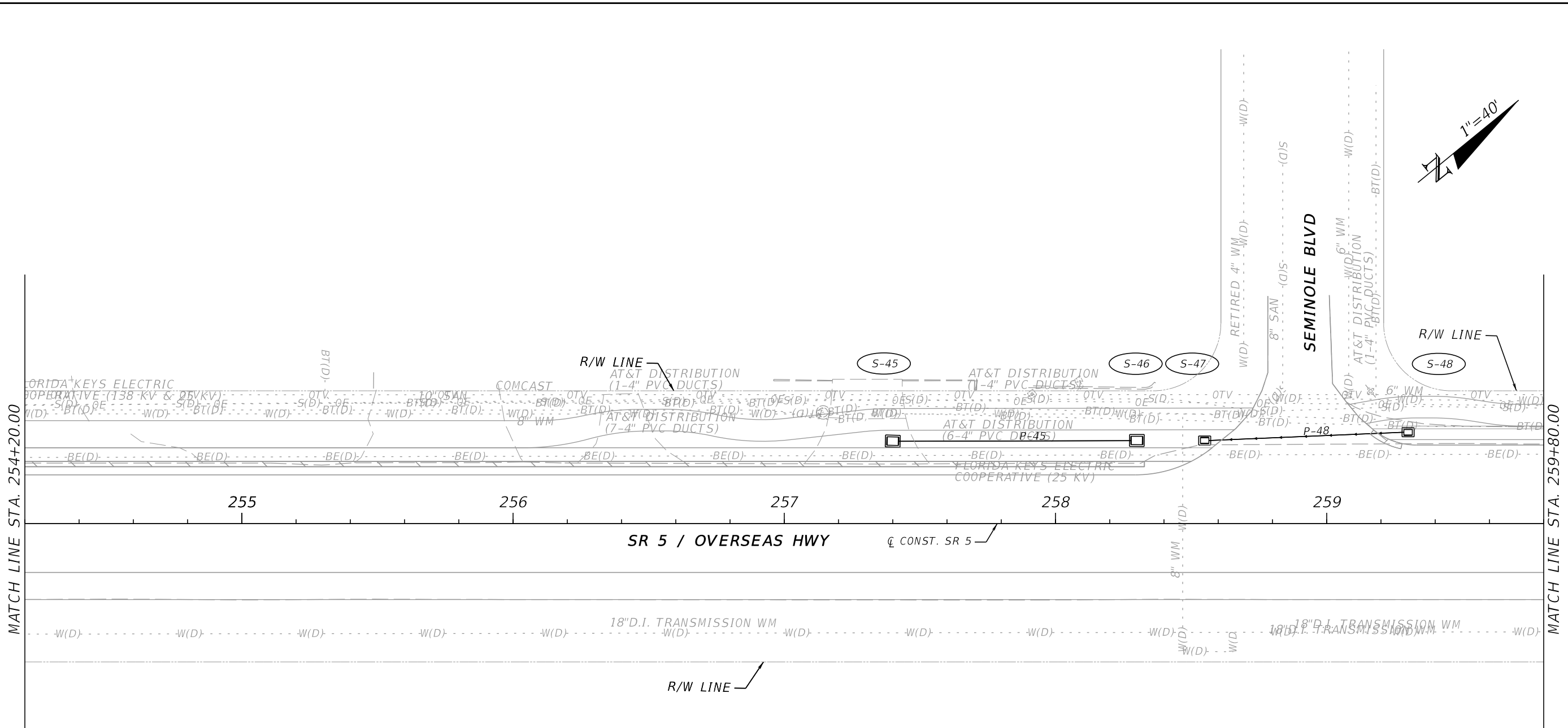
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 89015 OVERSEAS HWY,
 TAVERNIER, FL 33070

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									67

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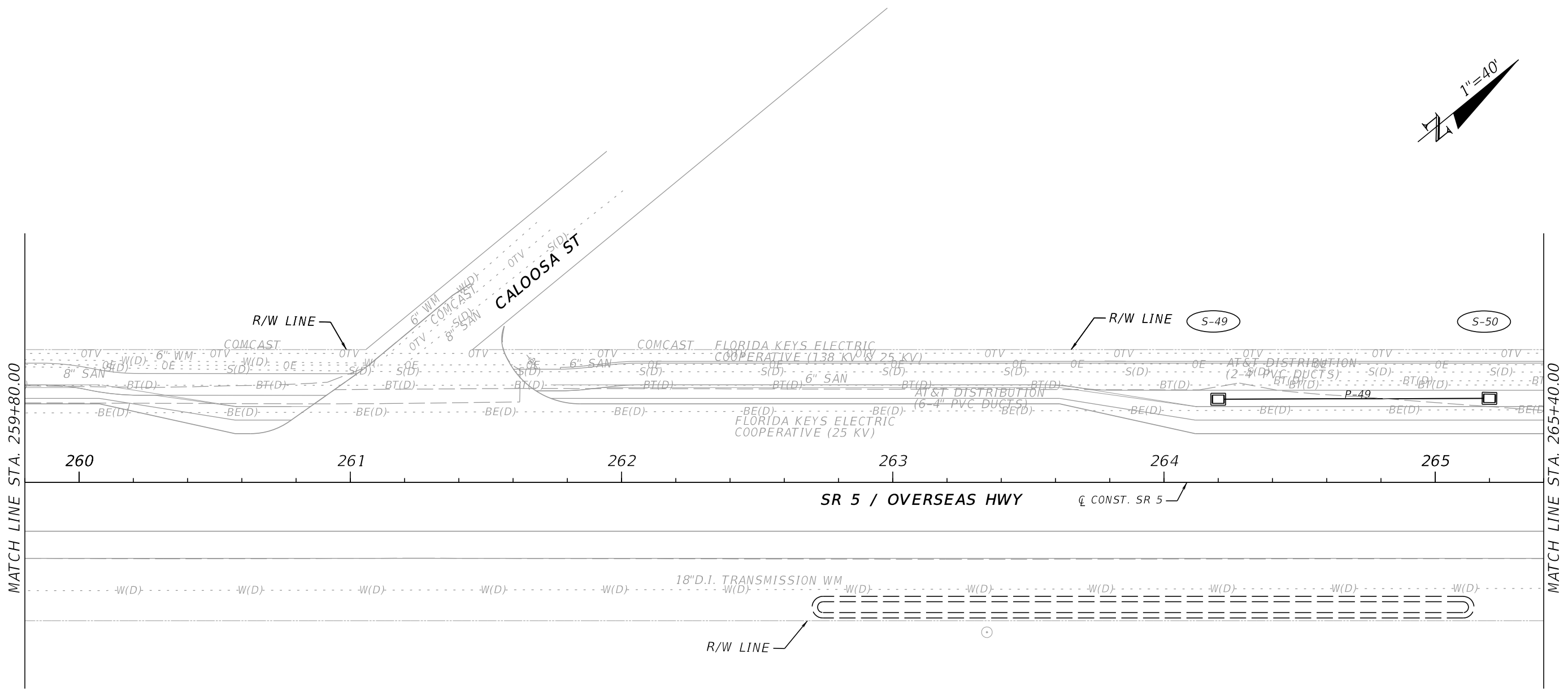
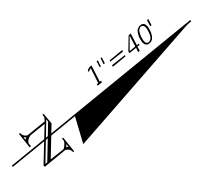


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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	

DRAINAGE STRUCTURES

68

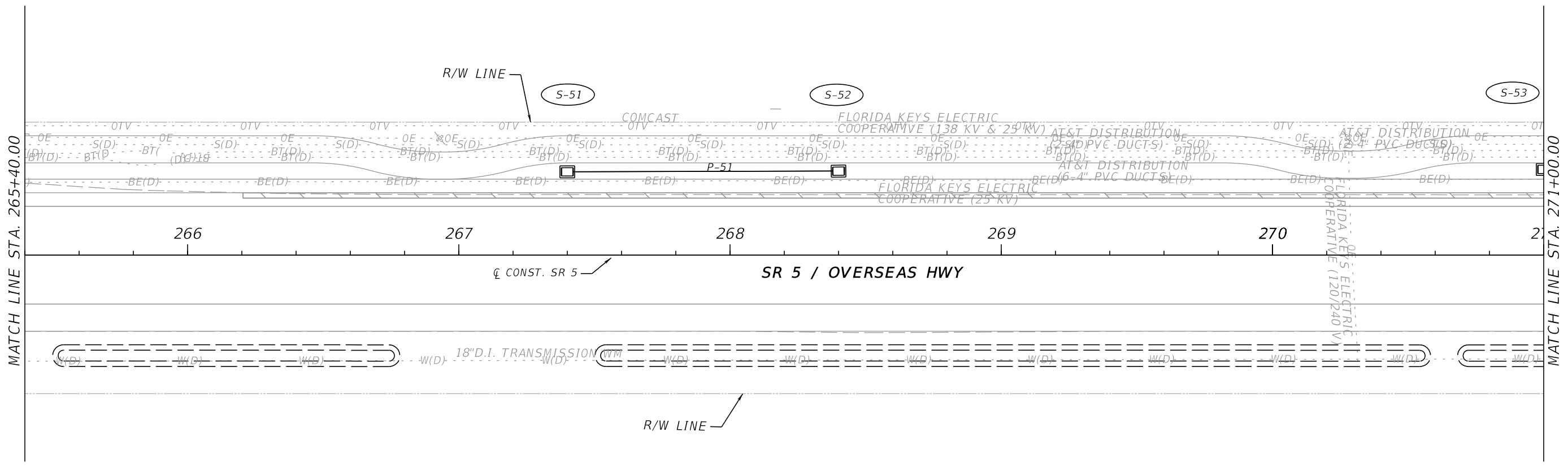
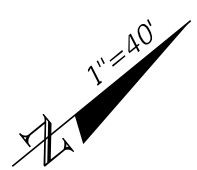
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126						
DRAINAGE STRUCTURES										
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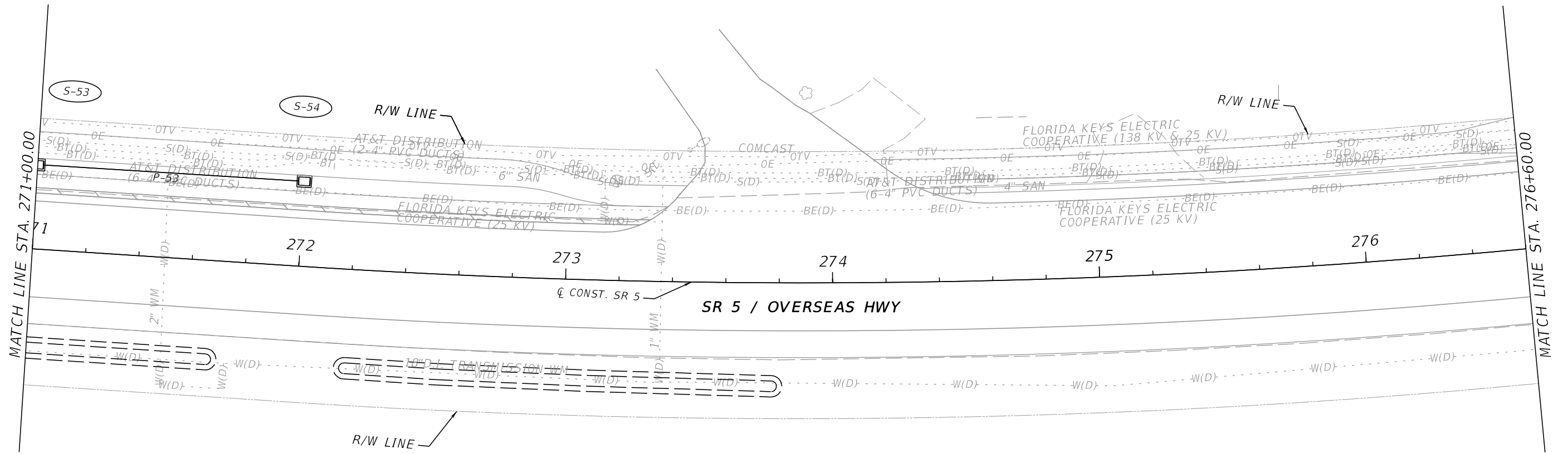
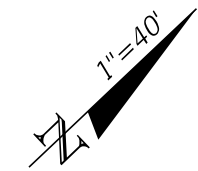
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	70

DRAINAGE STRUCTURES

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SAN PEDRO CATHOLIC CHURCH
89500 OVERSEAS HWY
TAVERNIER, FL 33070



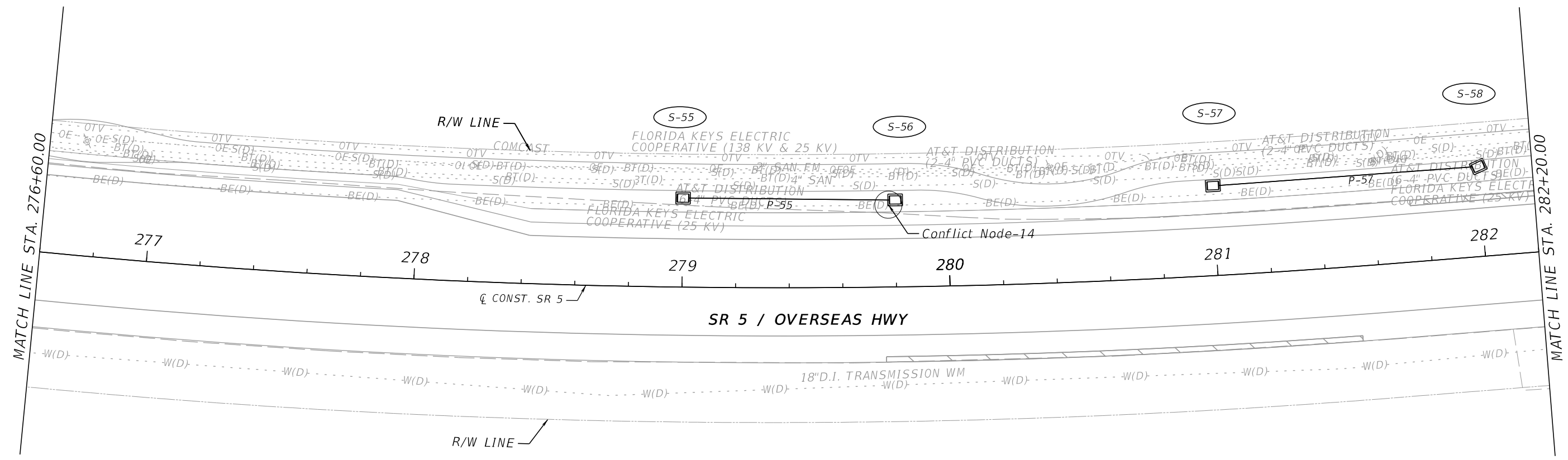
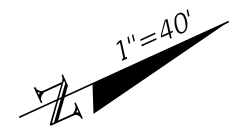
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	71	
				SR 5		MONROE	447810-1-52-01		

DRAINAGE STRUCTURES

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

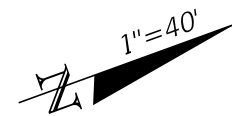
SAN PEDRO CATHOLIC CHURCH
89500 OVERSEAS HWY
TAVERNIER, FL 33070



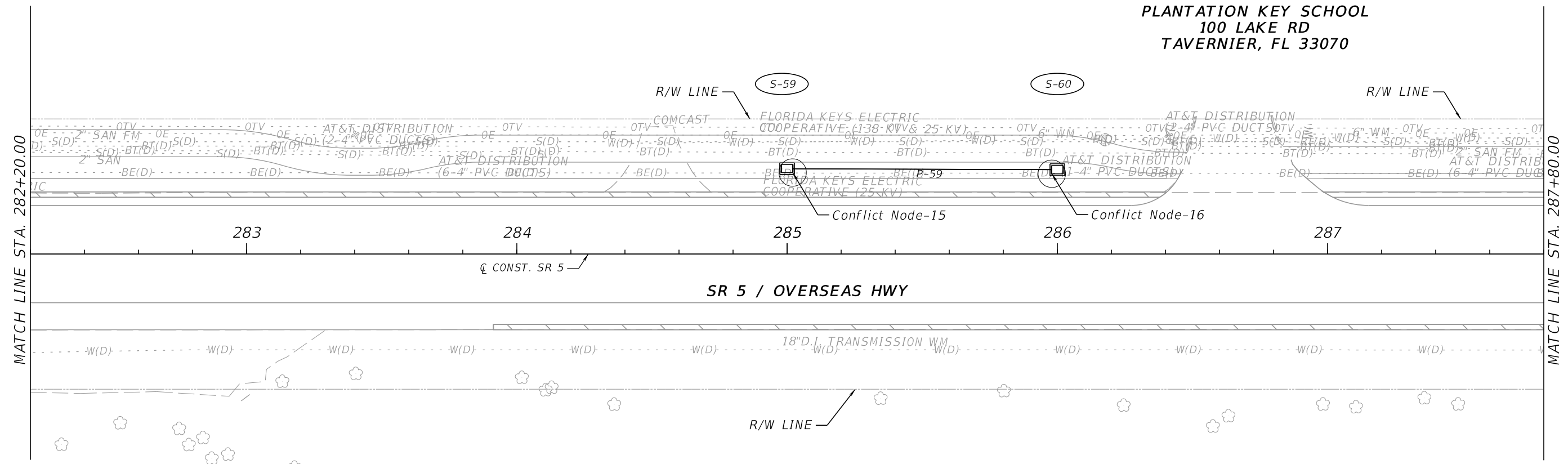
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126						
DRAINAGE STRUCTURES										72

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PLANTATION KEY SCHOOL
100 LAKE RD
TAVERNIER, FL 33070



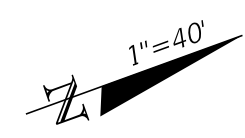
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MATCH LINE STA. 287+80.00

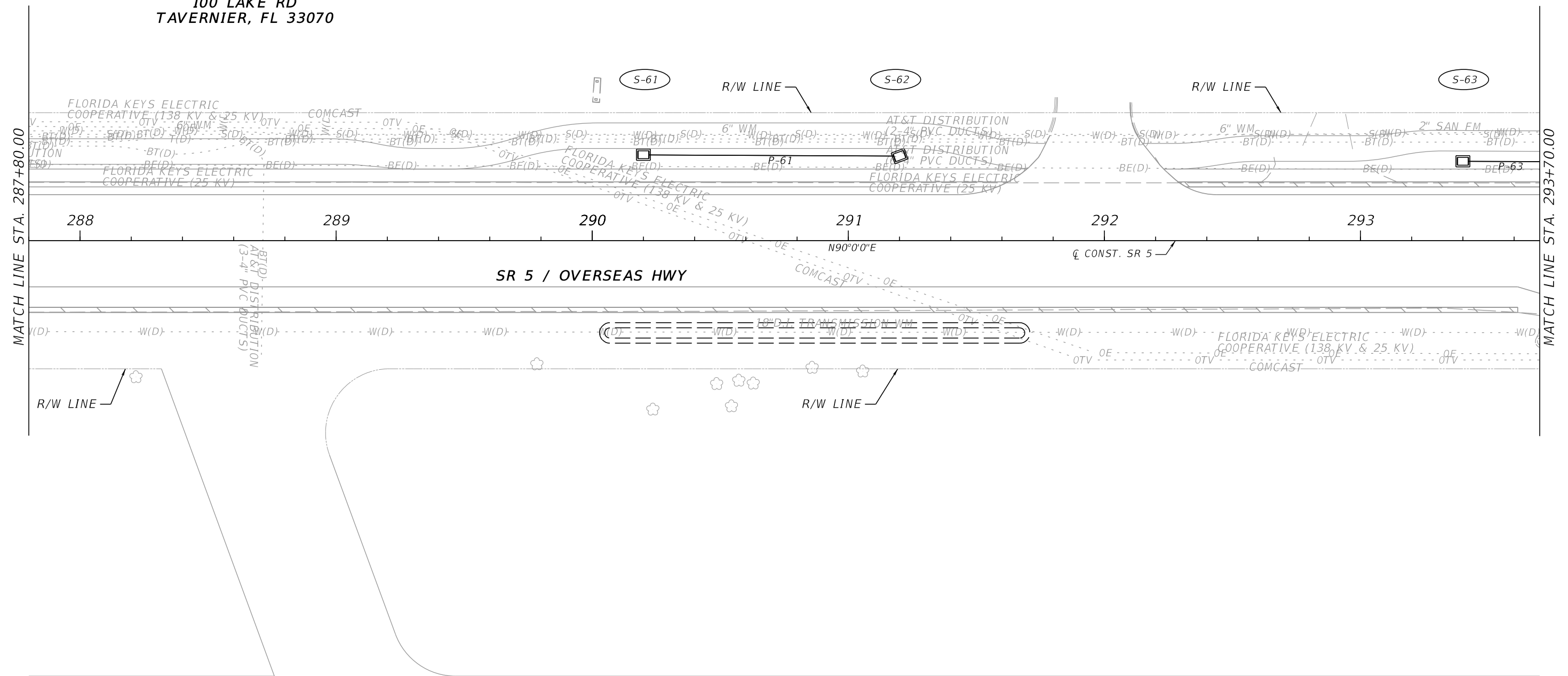
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									73

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PLANTATION KEY SCHOOL
100 LAKE RD
TAVERNIER, FL 33070



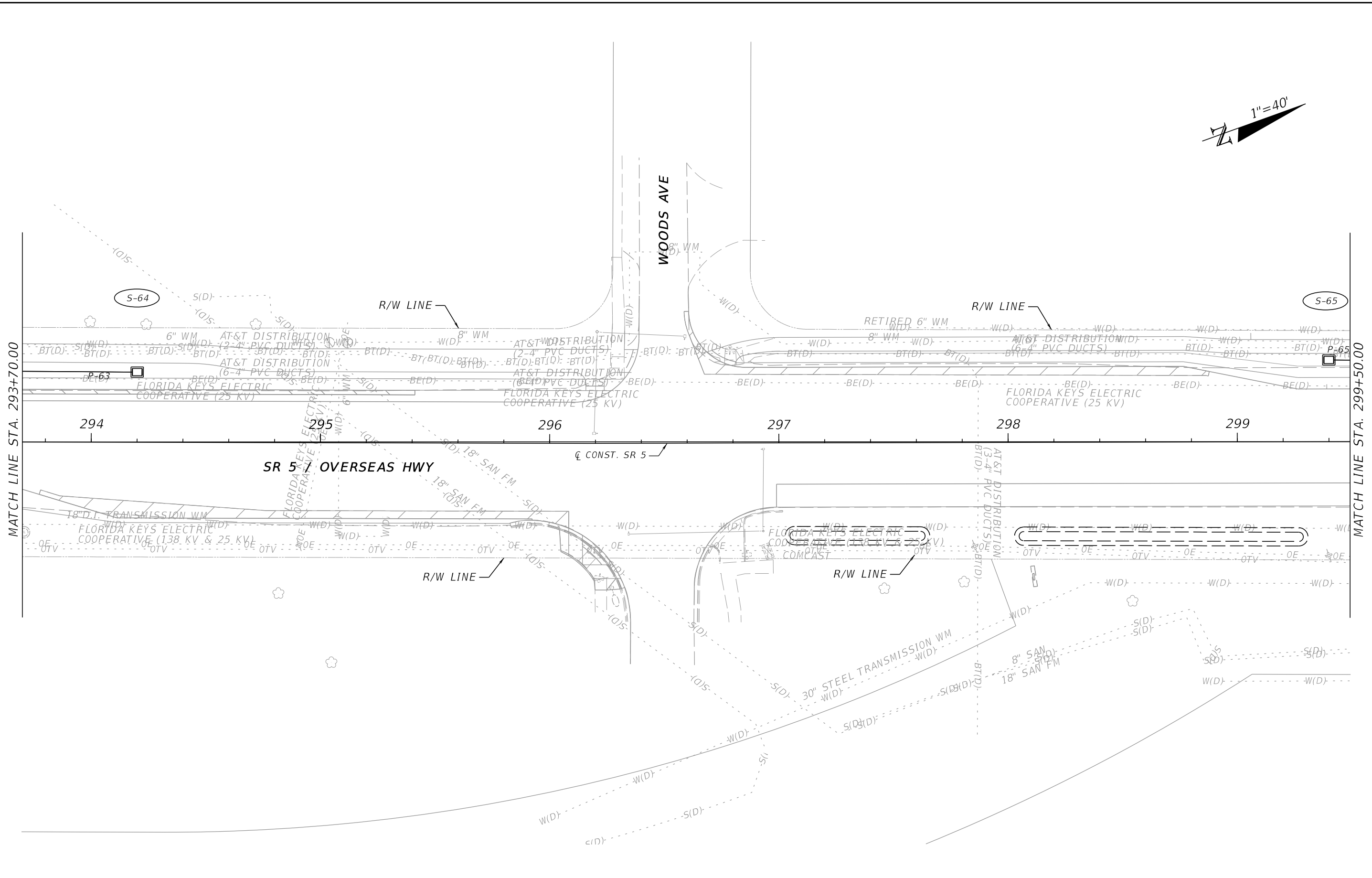
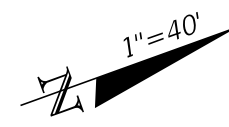
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.			COUNTY			
				SR 5			MONROE			
				FINANCIAL PROJECT ID			447810-1-52-01			

PEDRO M. PELEGRIN, P.E.
LICENSE NUMBER: 76951
RS&H, INC.
6303 BLUE LAGOON DRIVE, SUITE 325
MIAMI, FL 33126

DRAINAGE STRUCTURES

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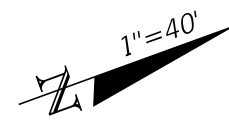


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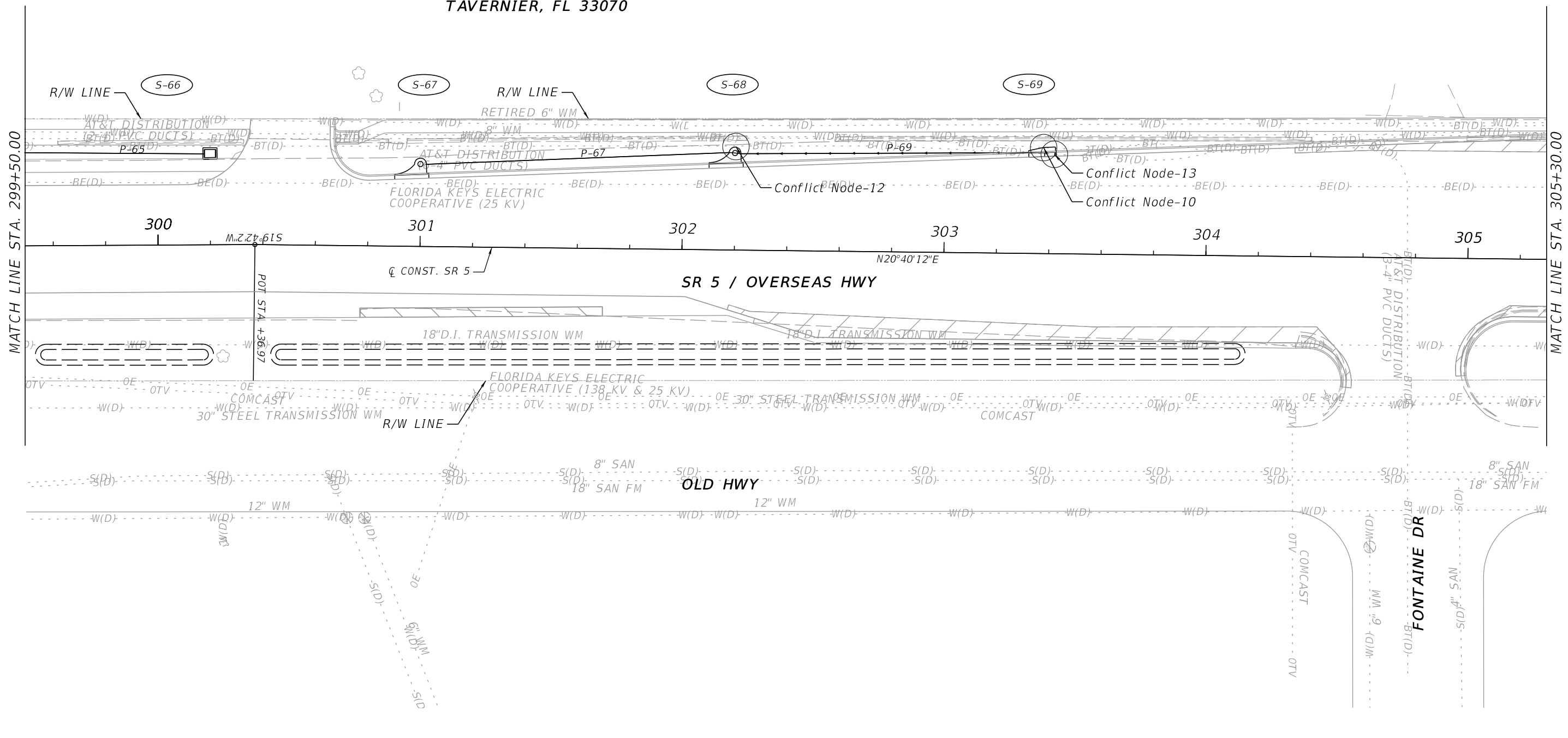
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 5	MONROE	447810-1-52-01	75

DRAINAGE STRUCTURES

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



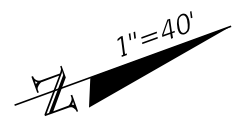
89990 OVERSEAS HWY
TAVERNIER, FL 33070



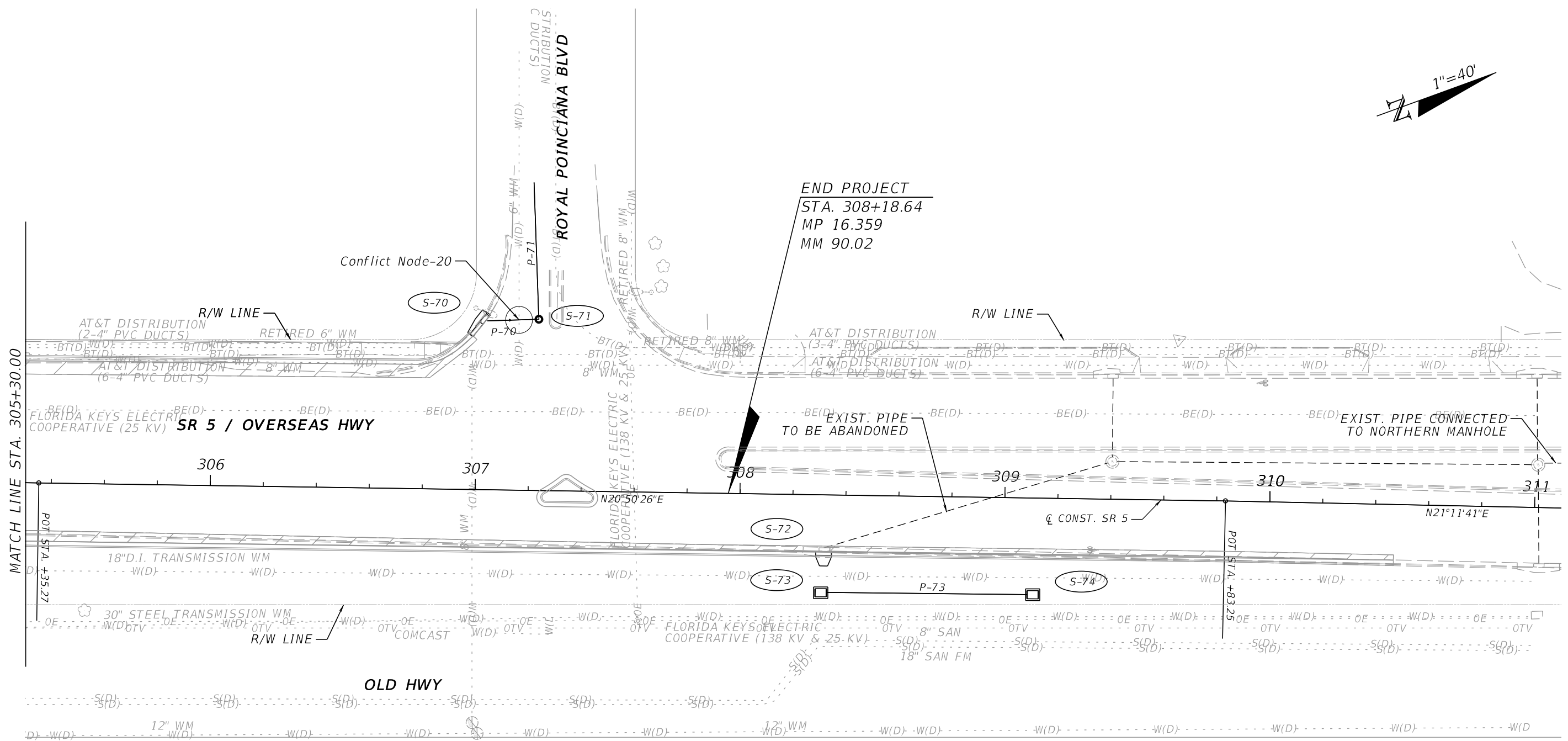
REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126						
DRAINAGE STRUCTURES										76

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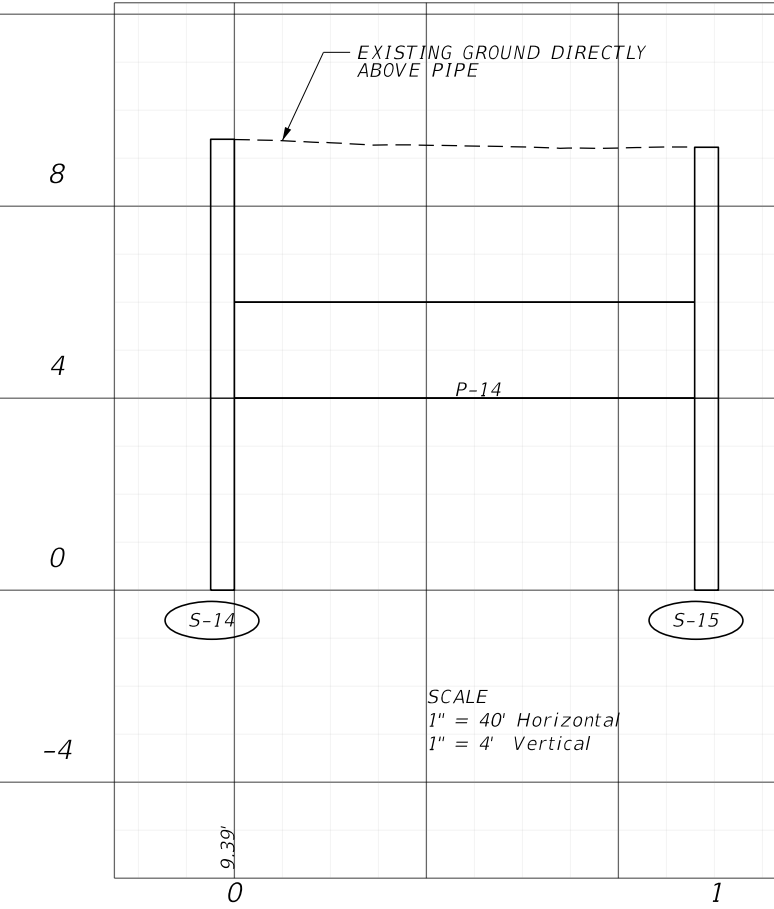
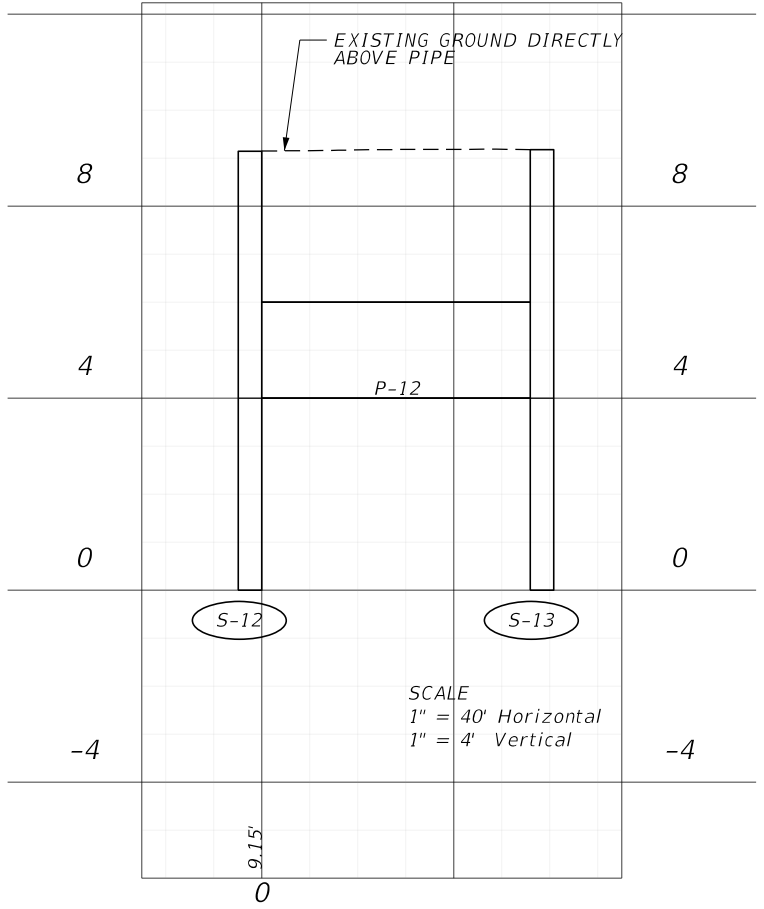
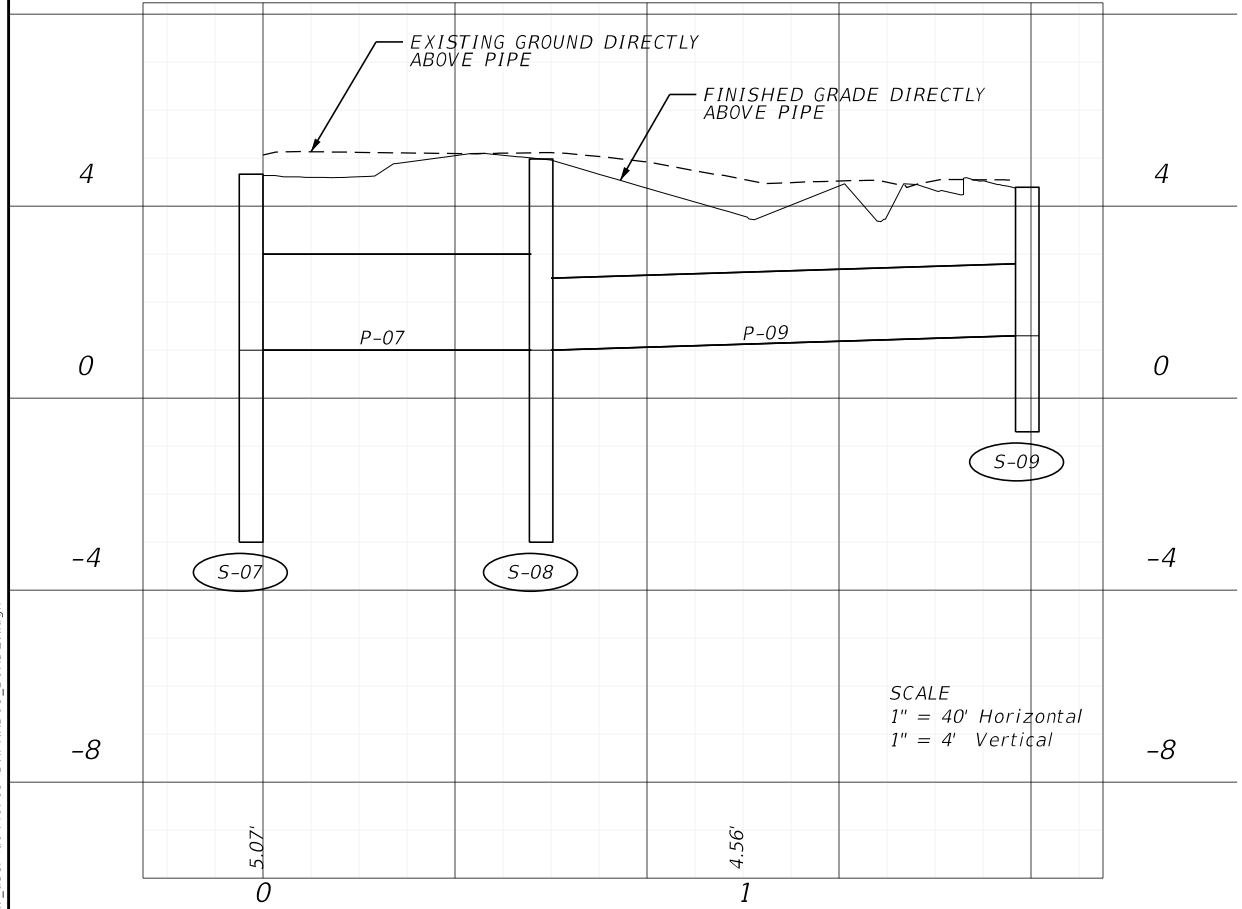
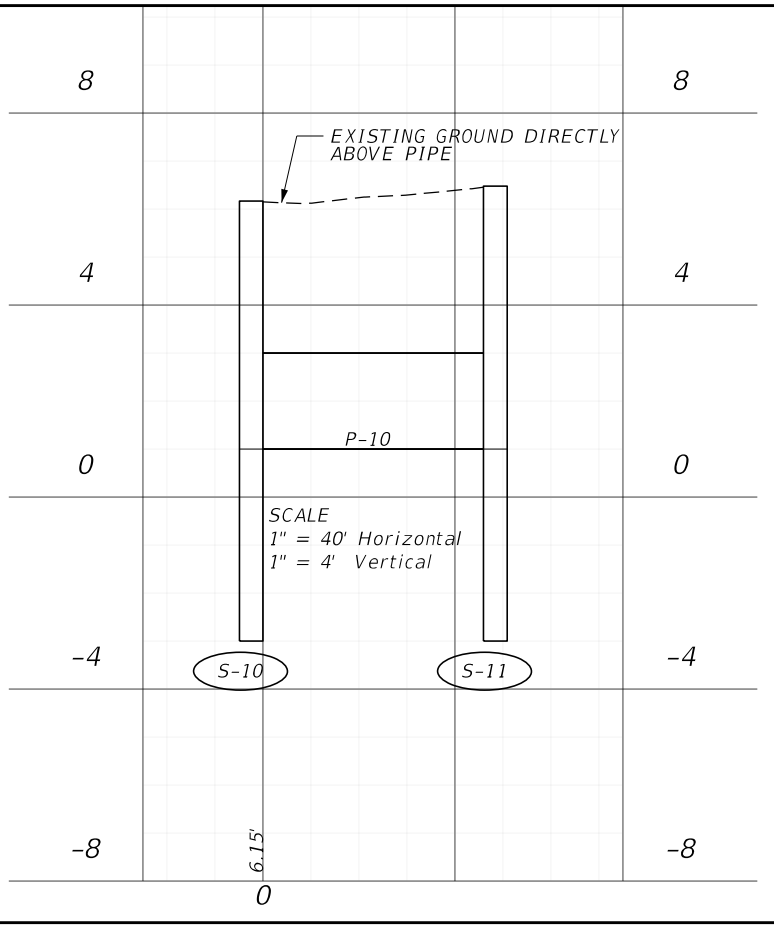
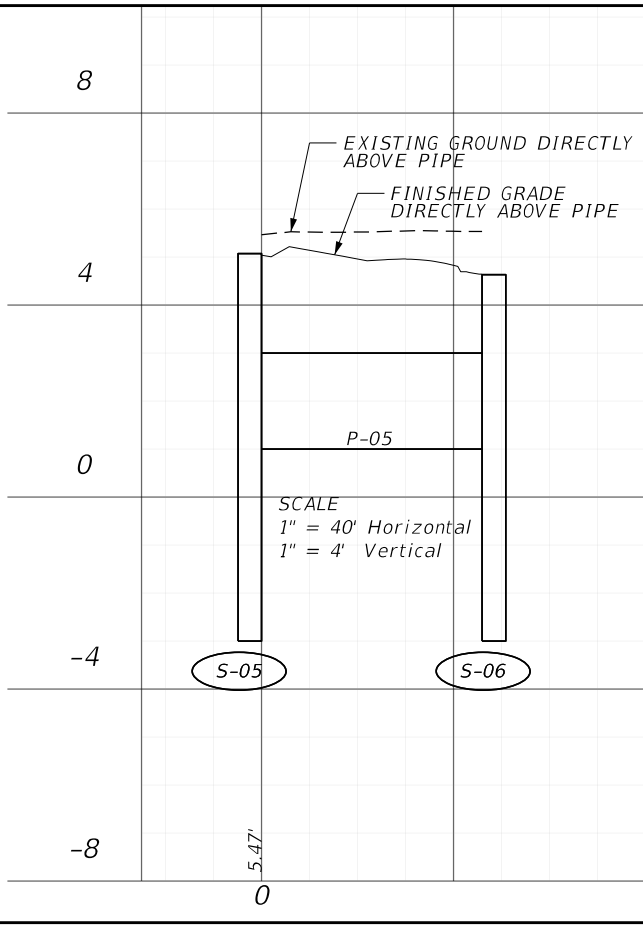
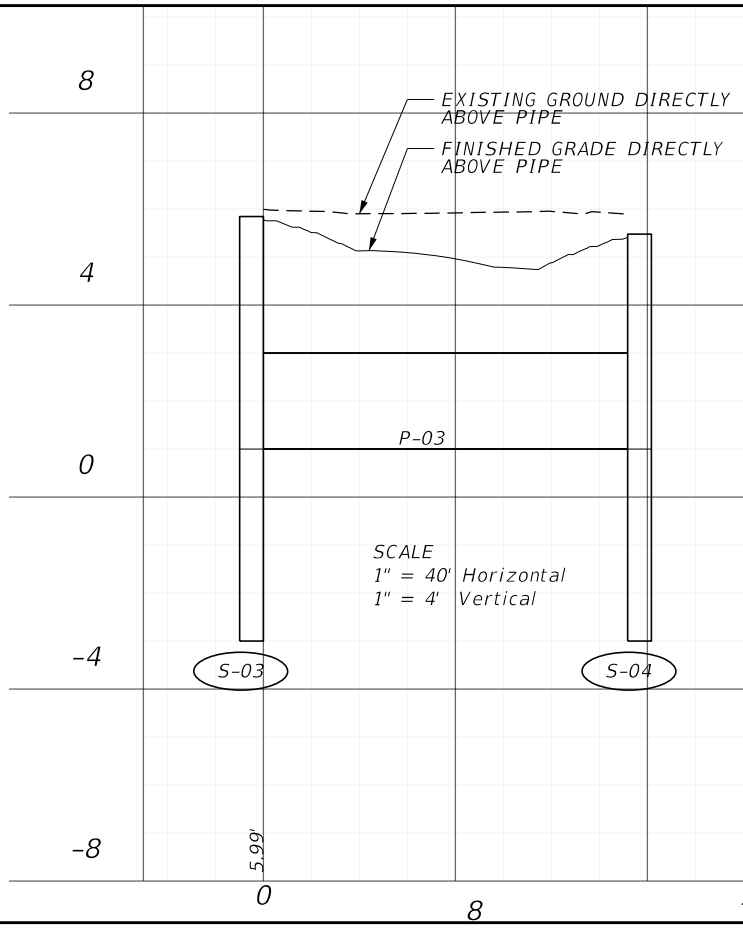
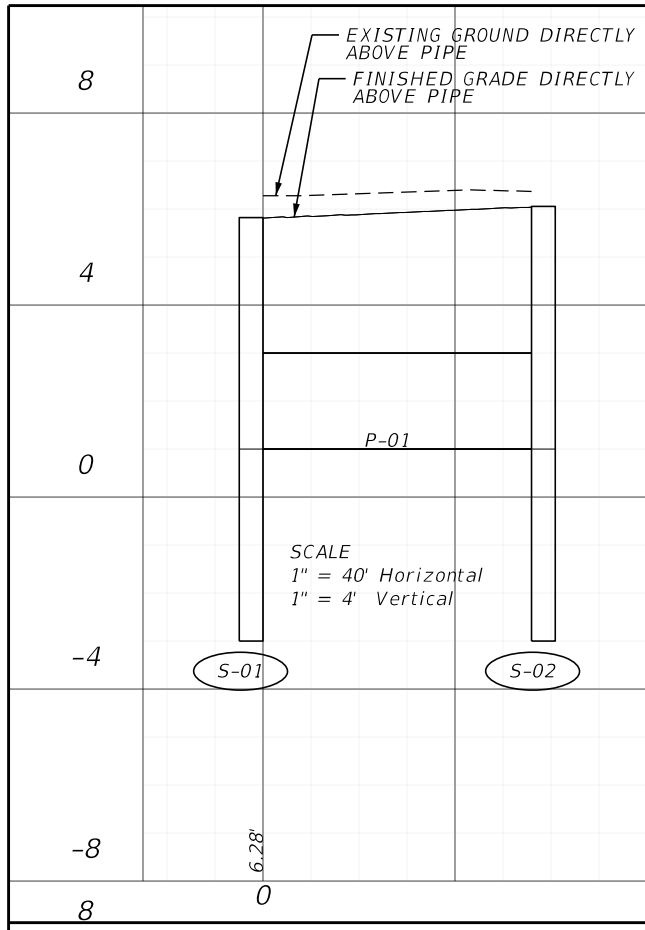
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
DRAINAGE STRUCTURES									77

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REVISIONS			
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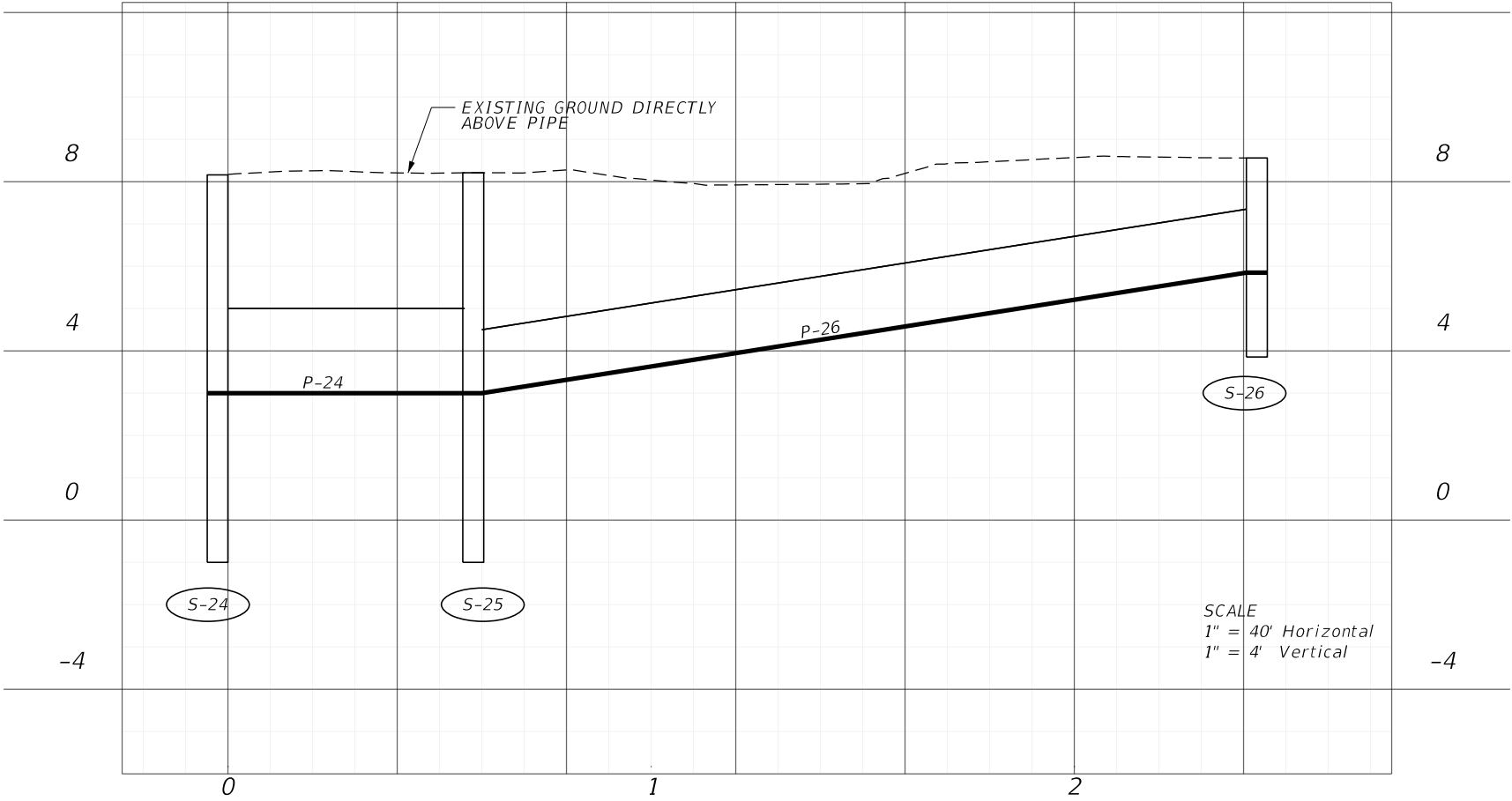
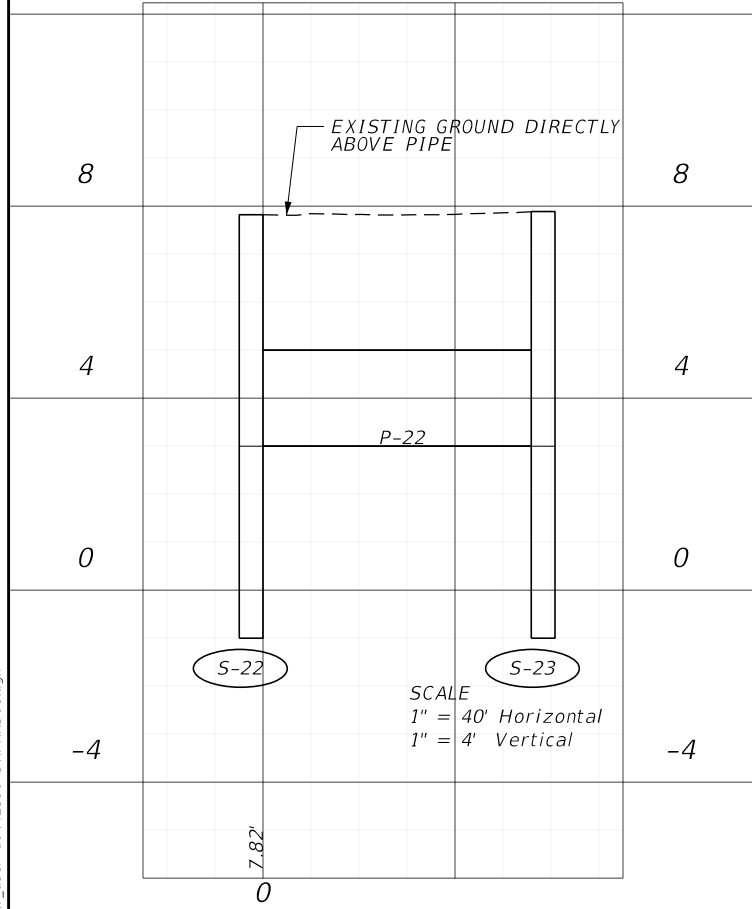
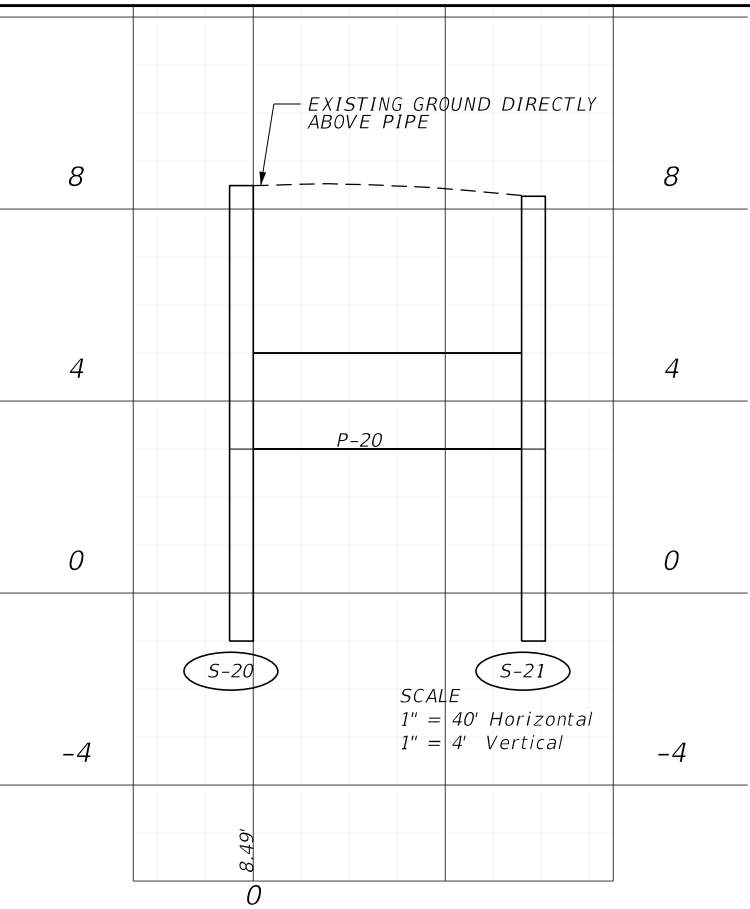
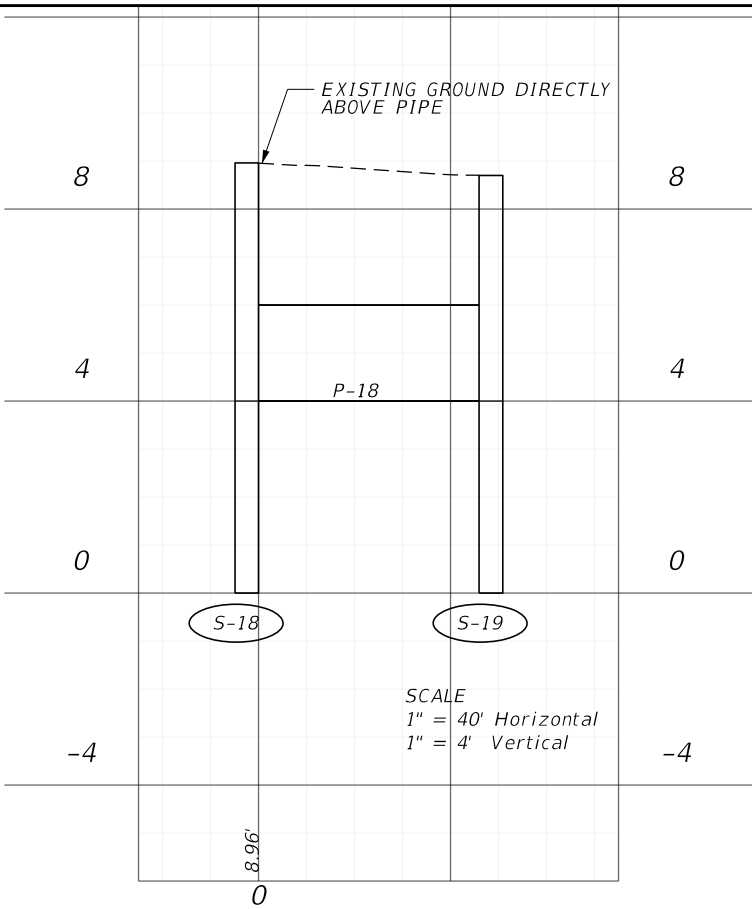
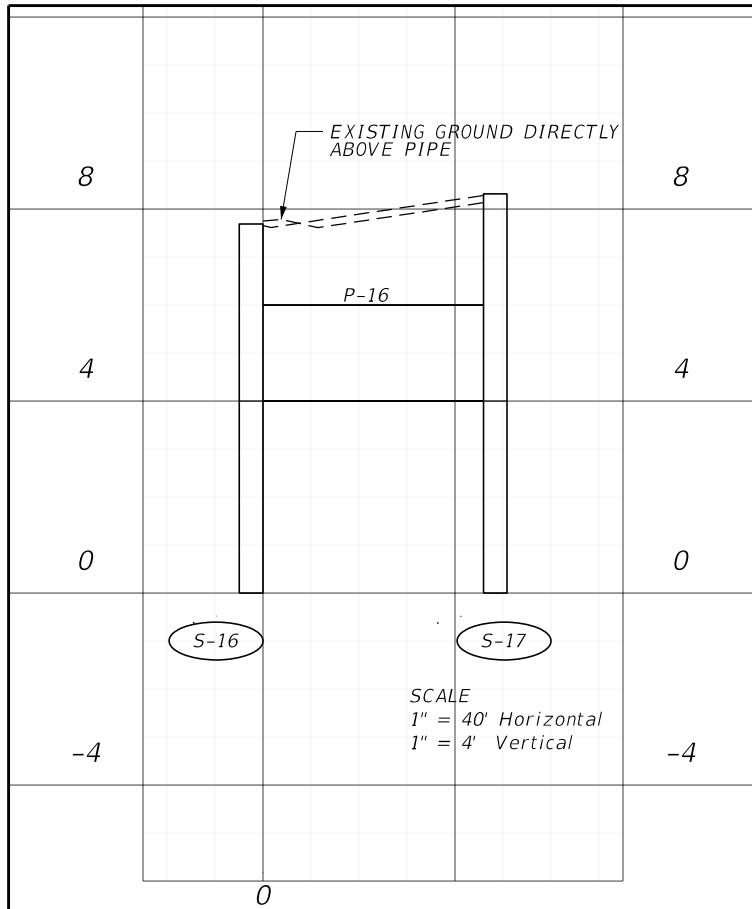
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PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
78

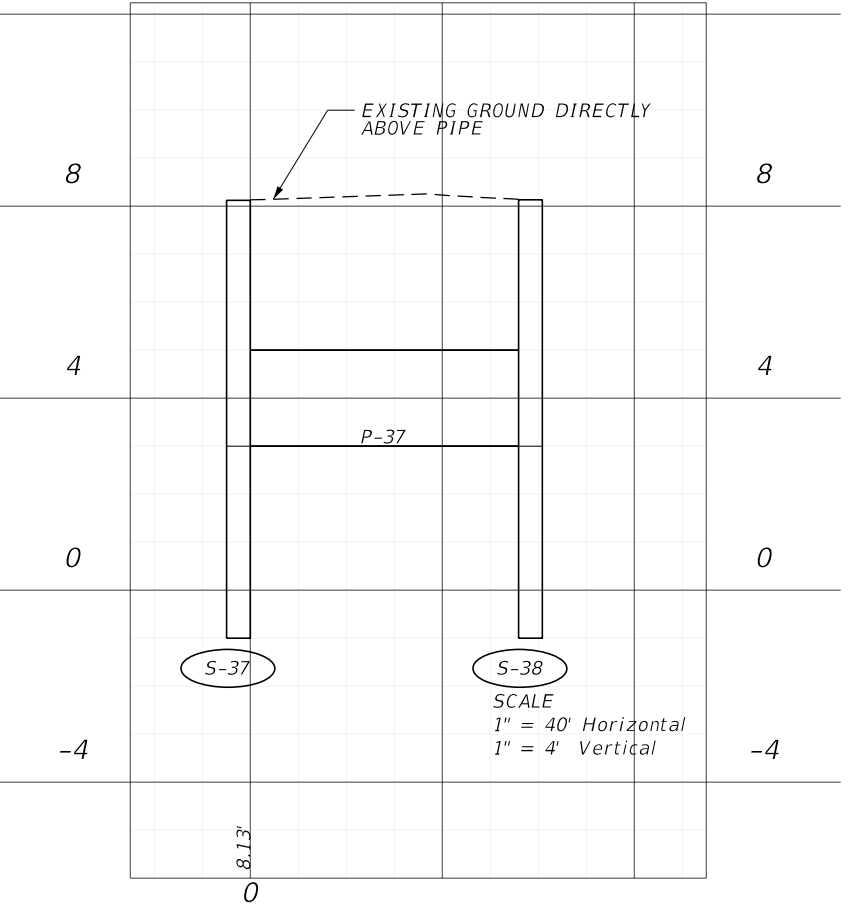
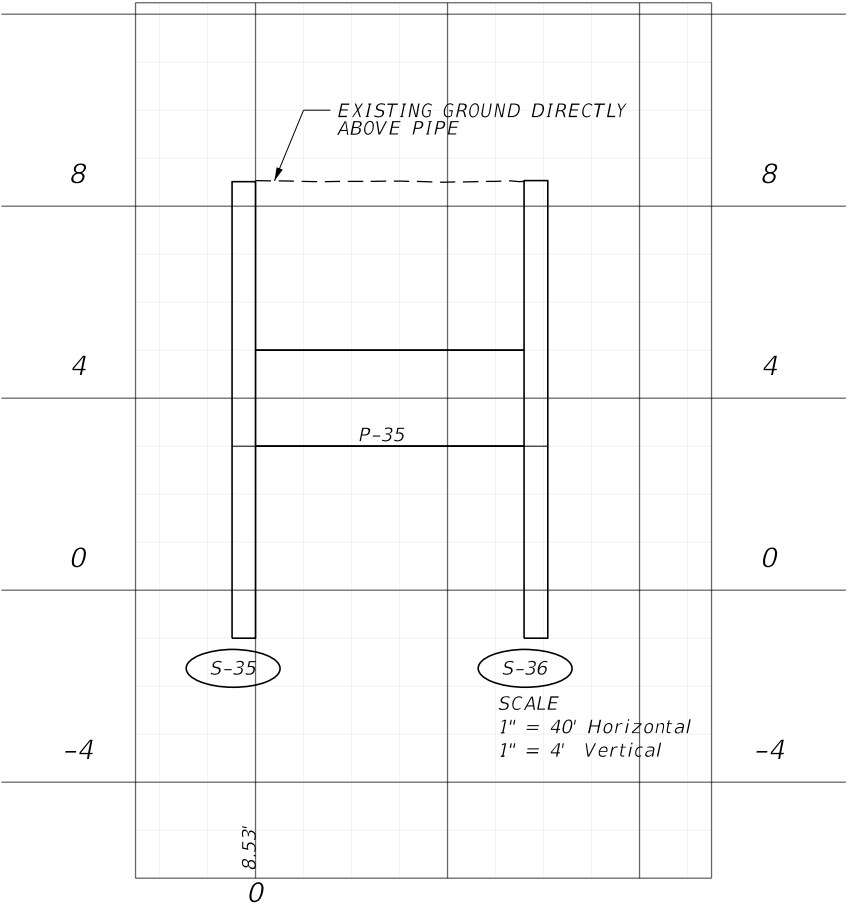
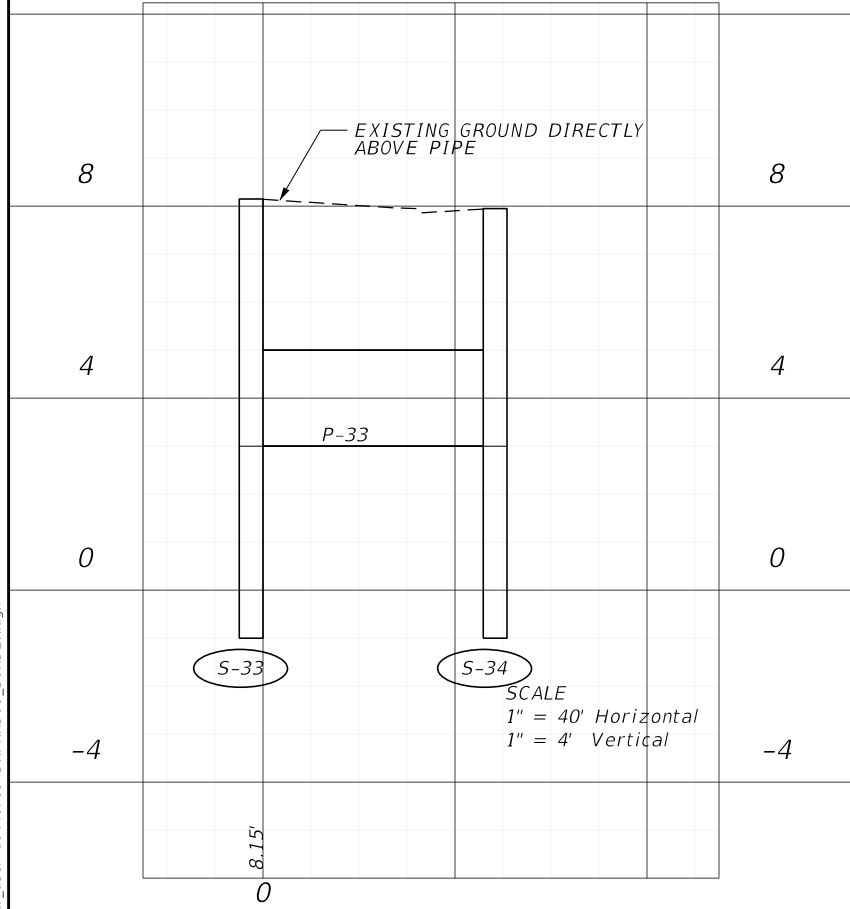
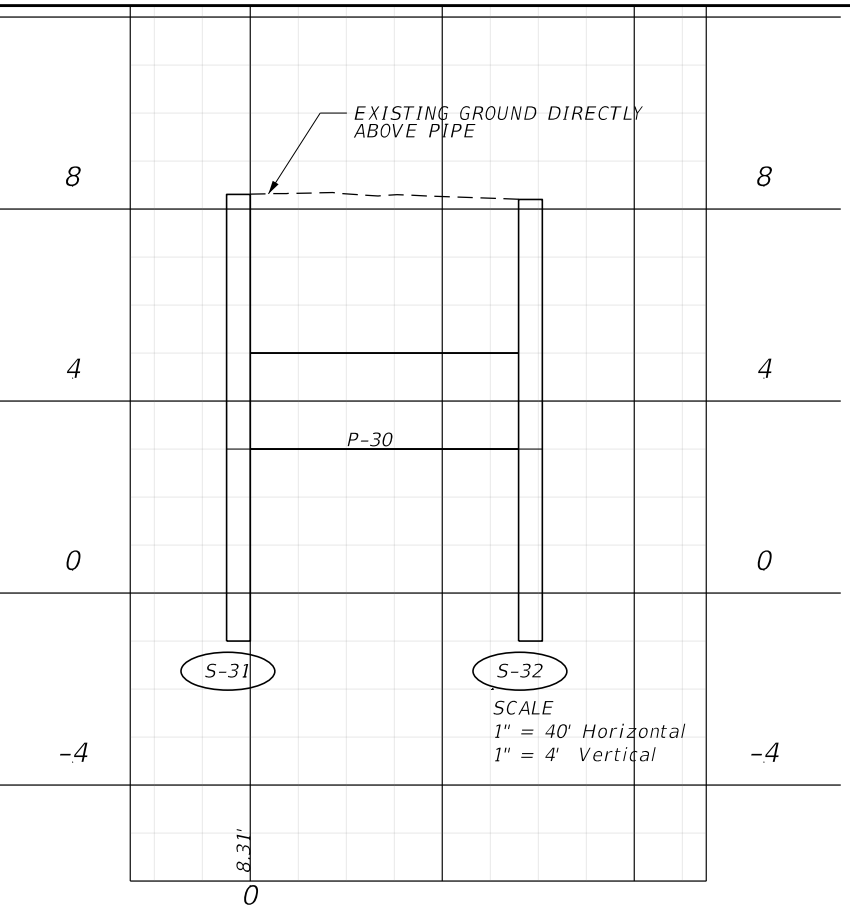
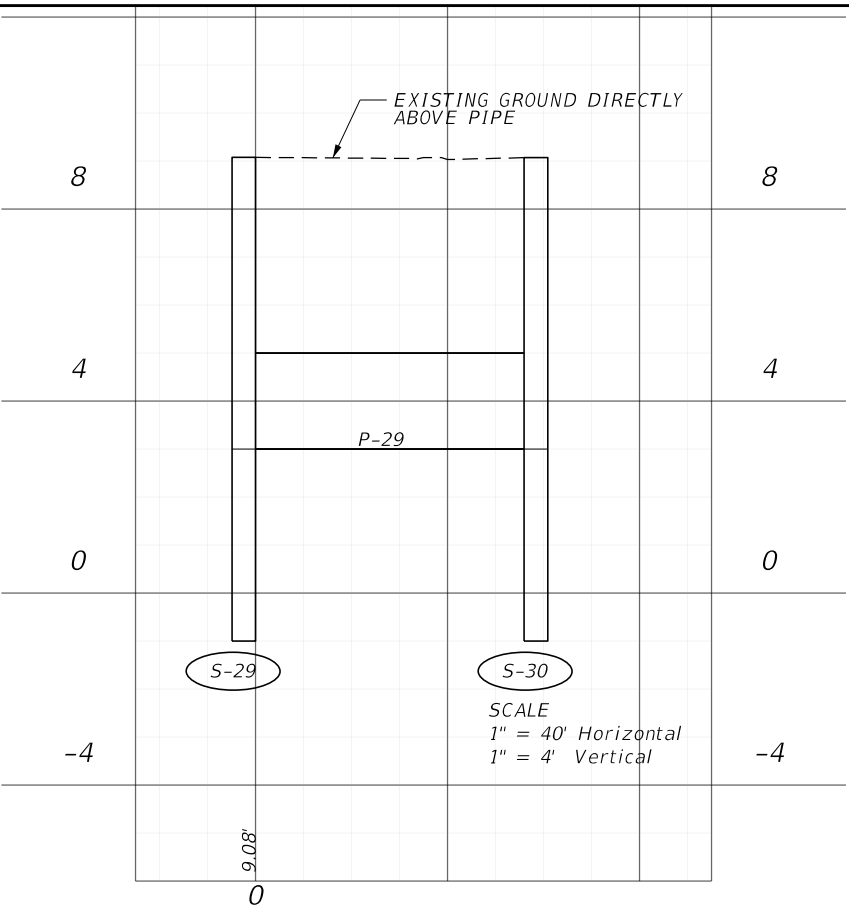
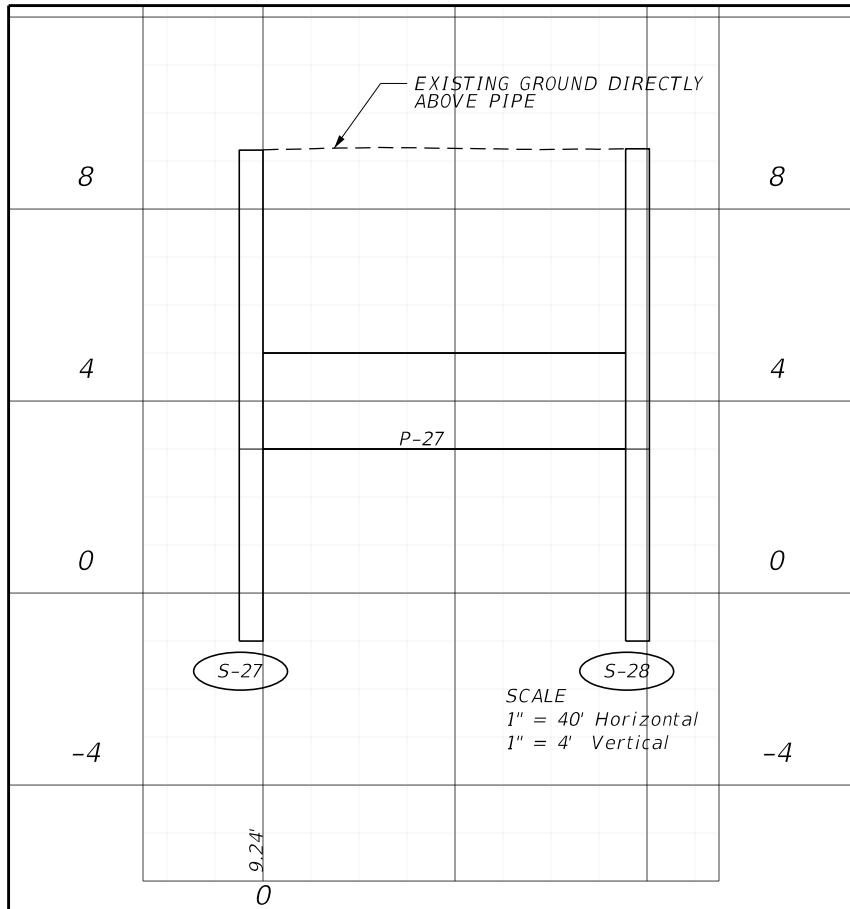
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		79
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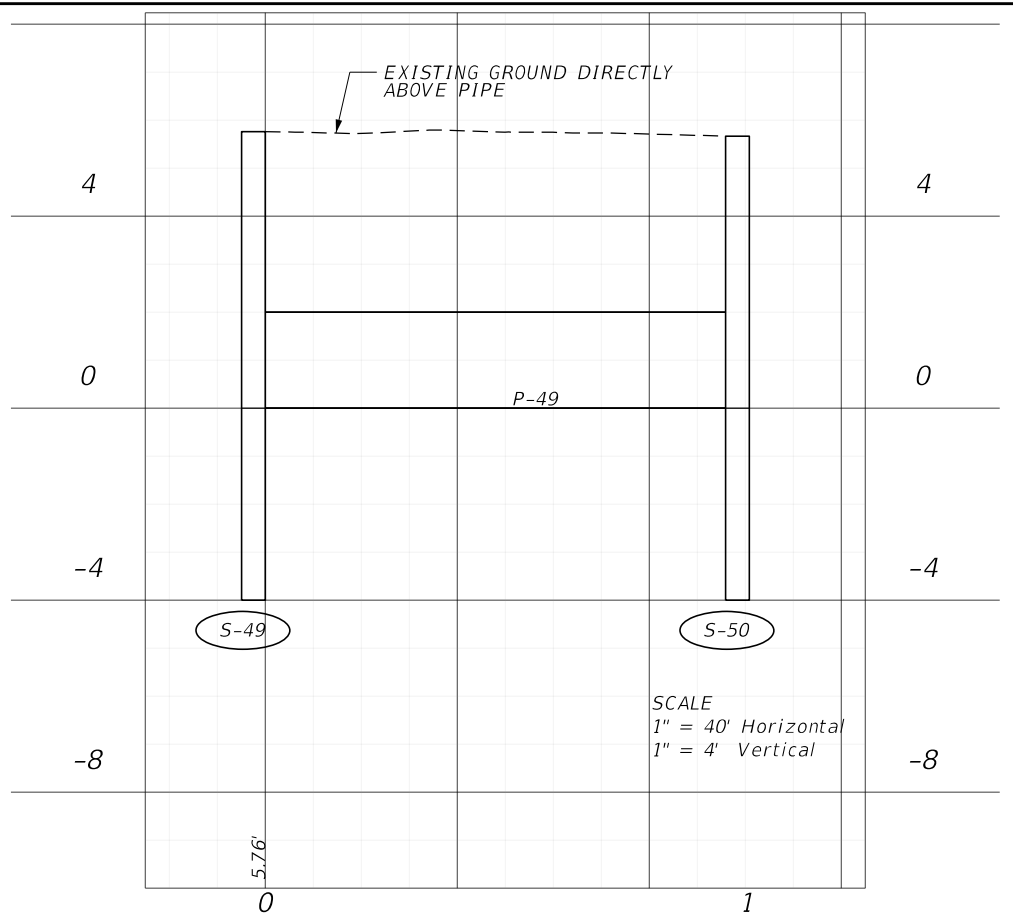
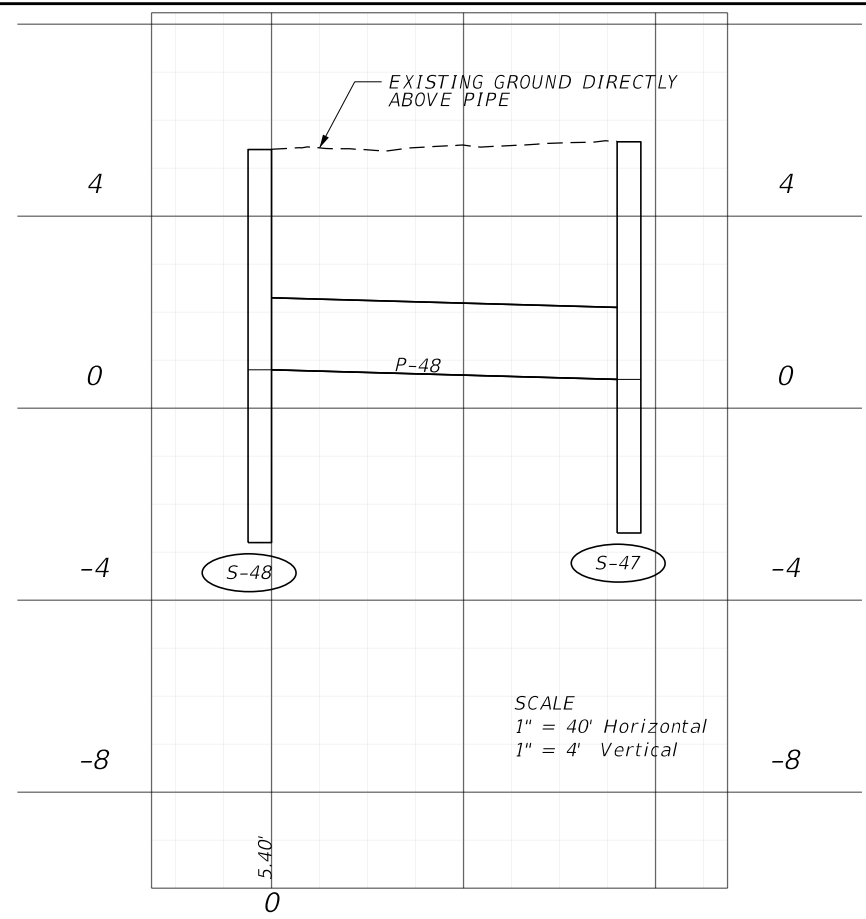
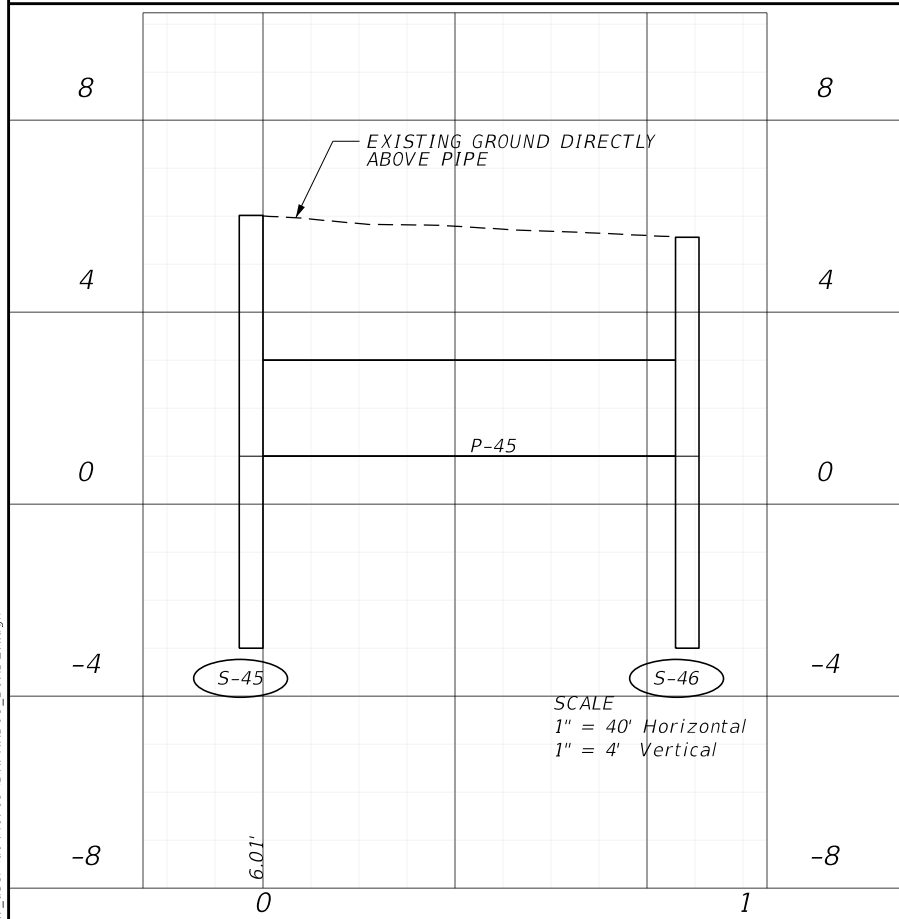
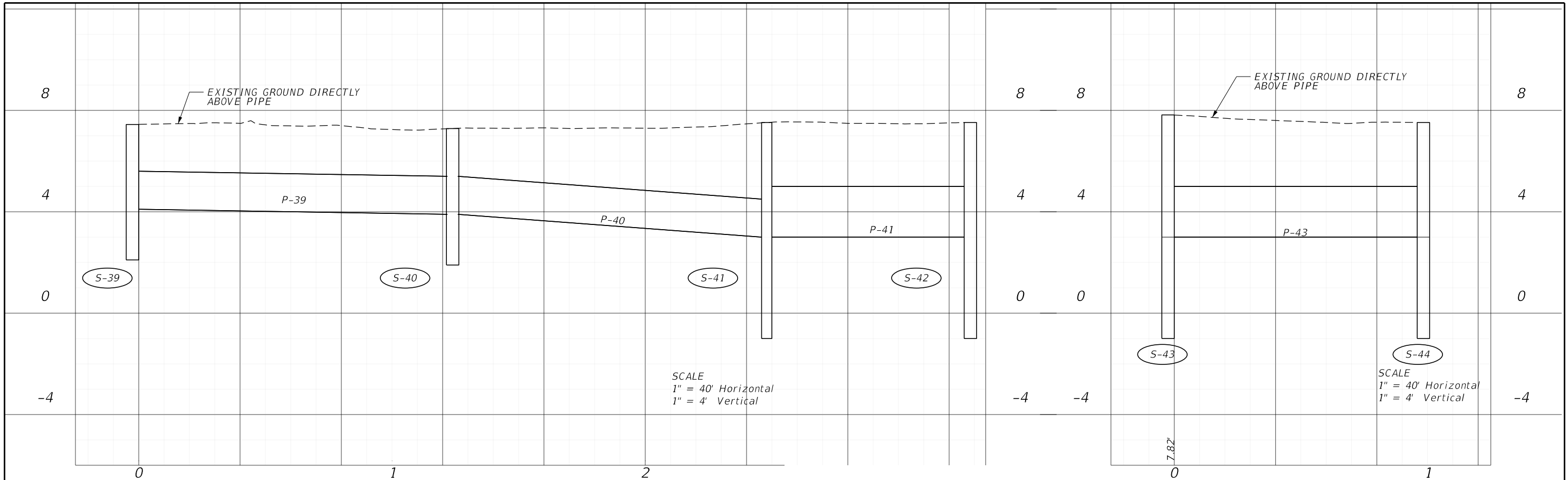
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126						
DRAINAGE STRUCTURES										
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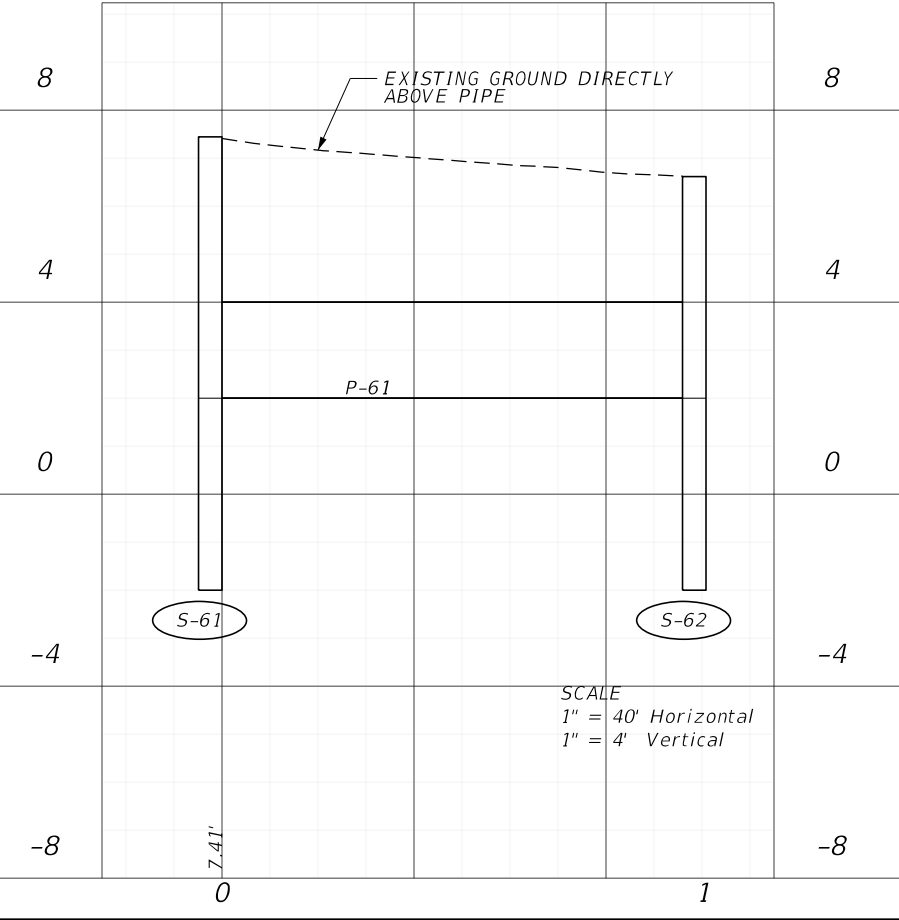
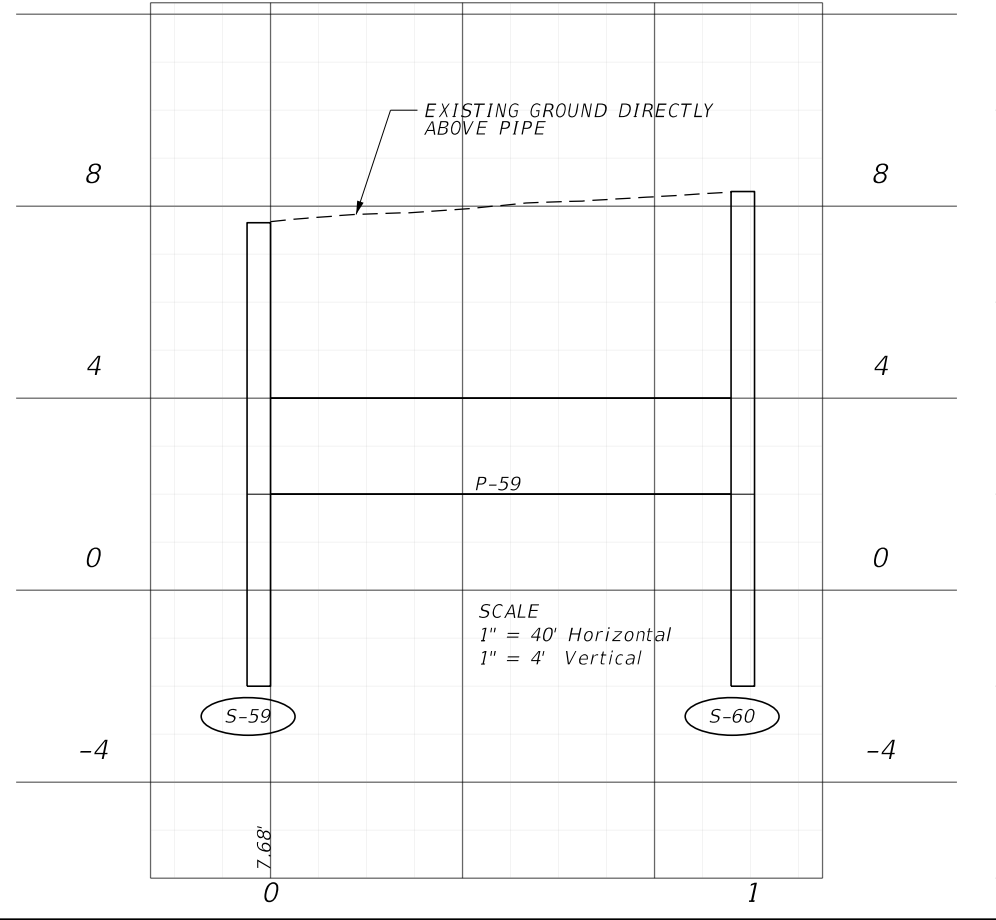
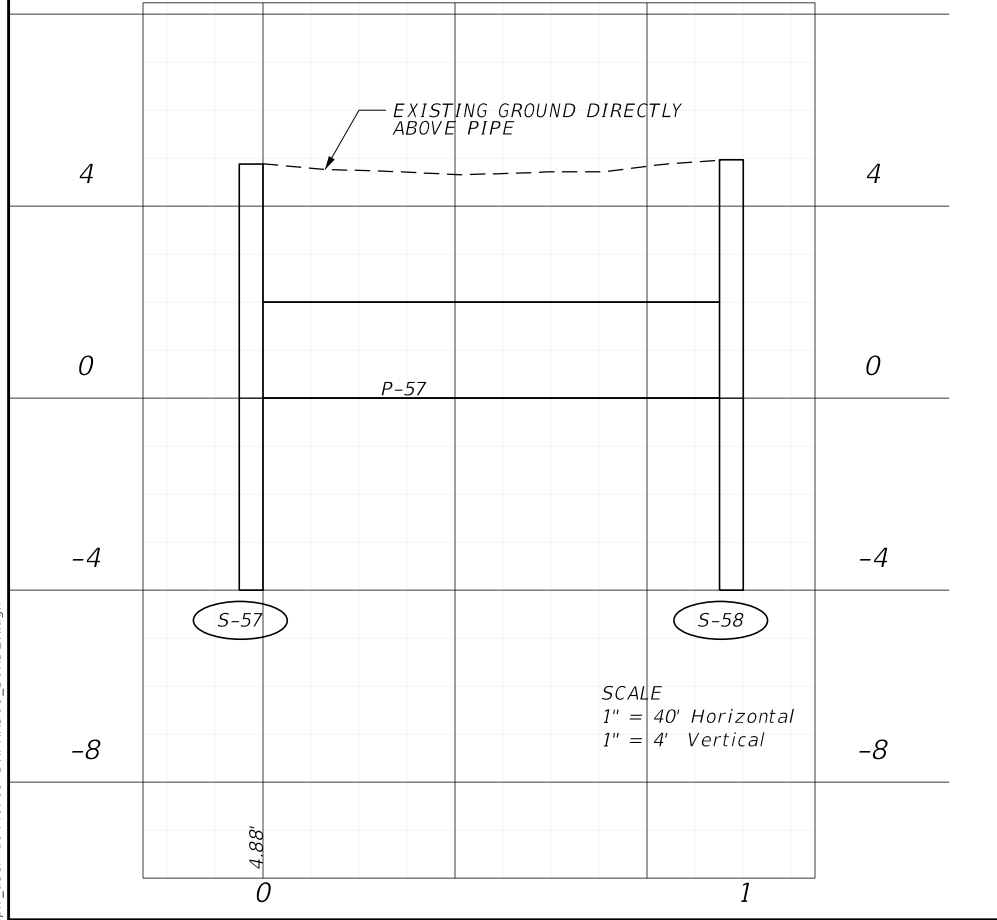
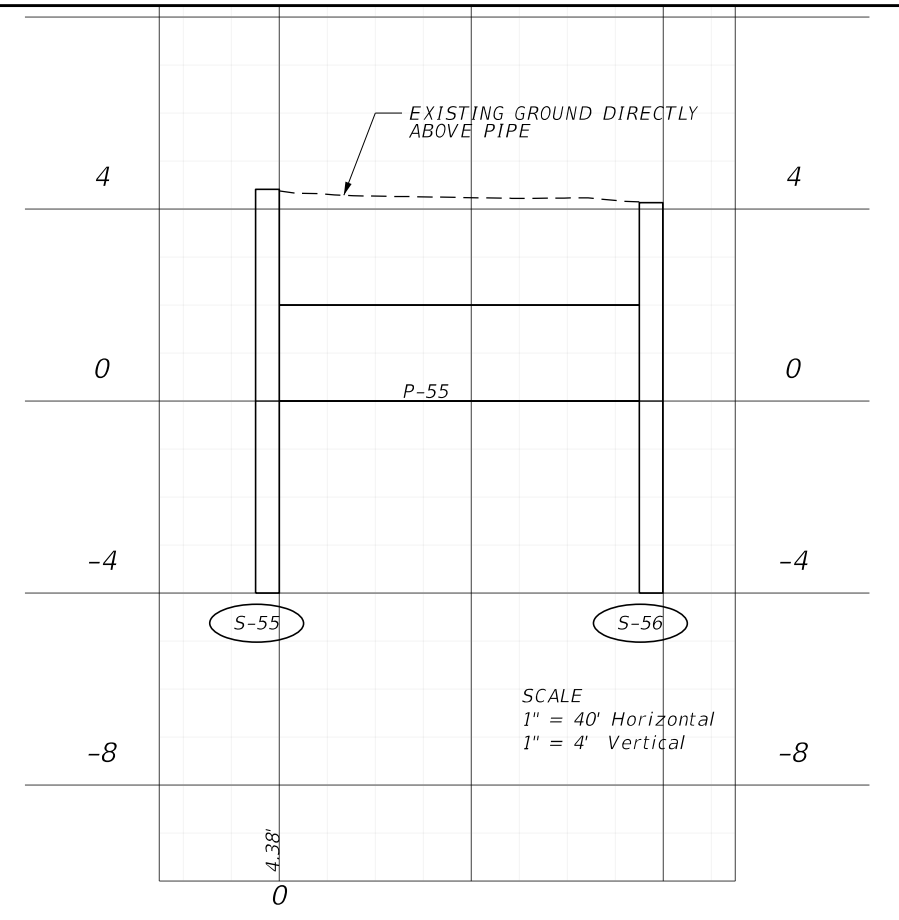
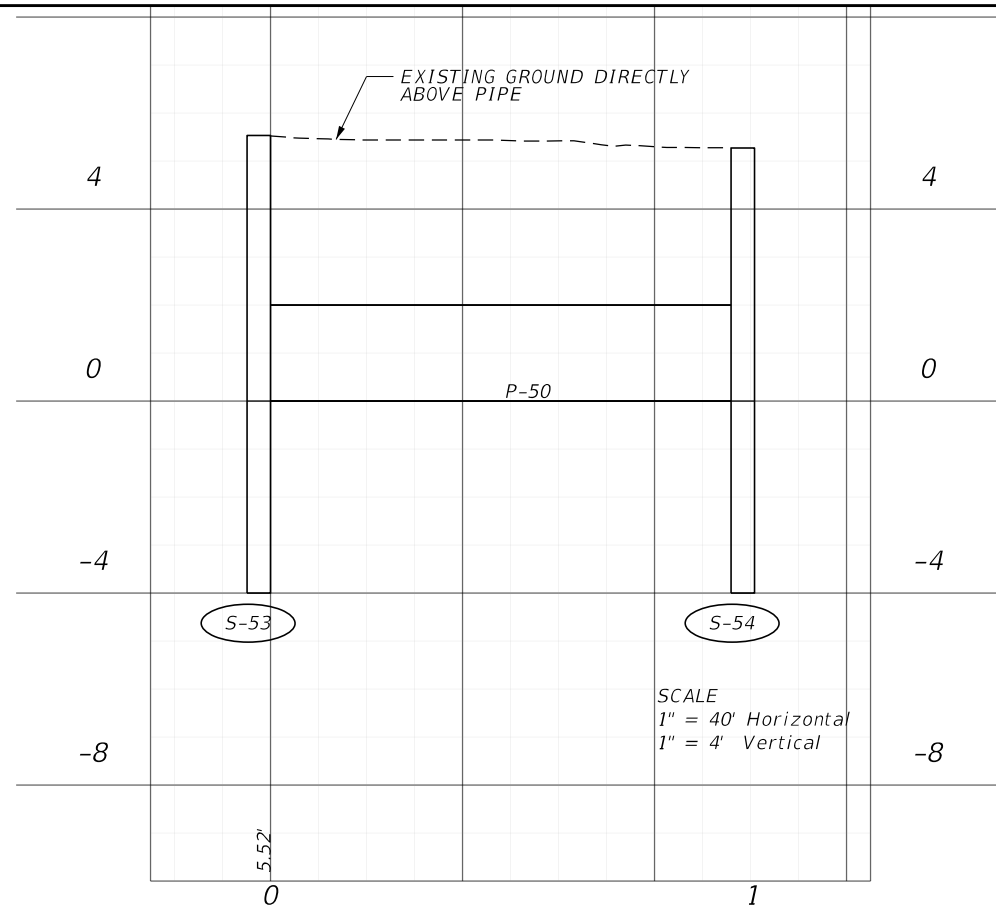
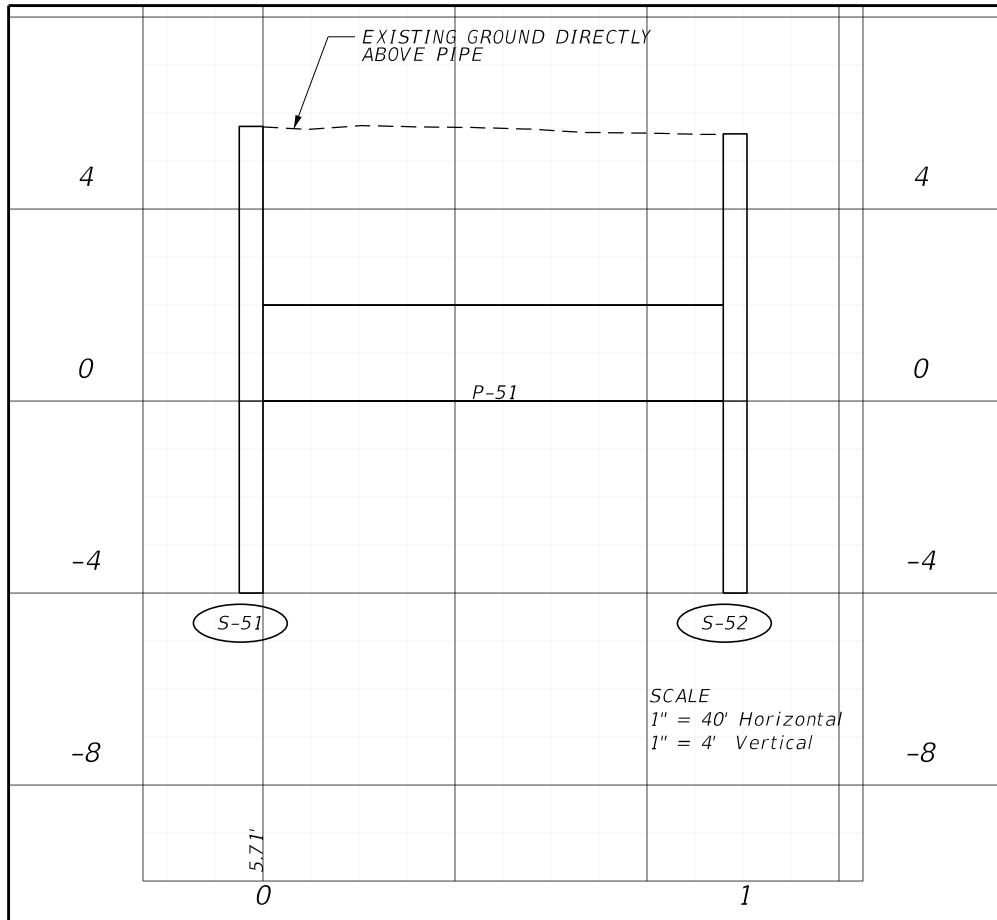


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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						SR 5	MONROE	447810-1-52-01	81

DRAINAGE STRUCTURES

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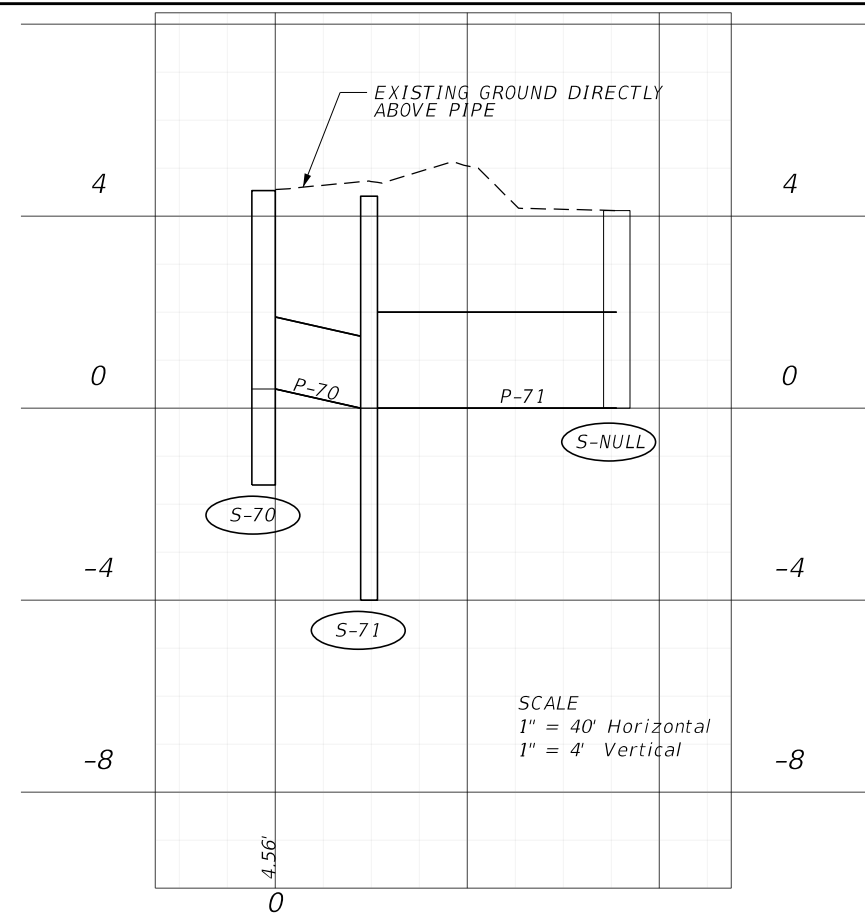
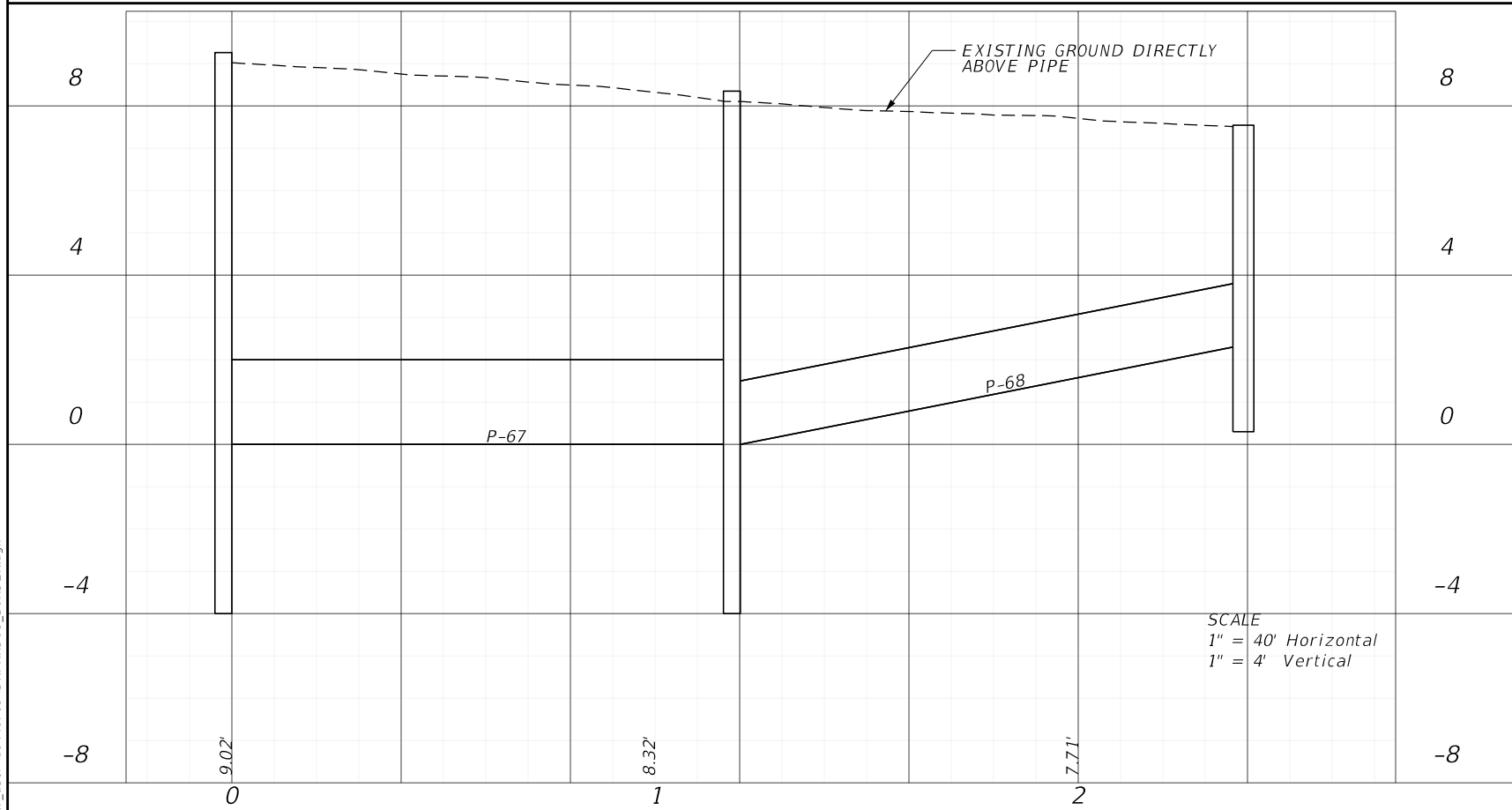
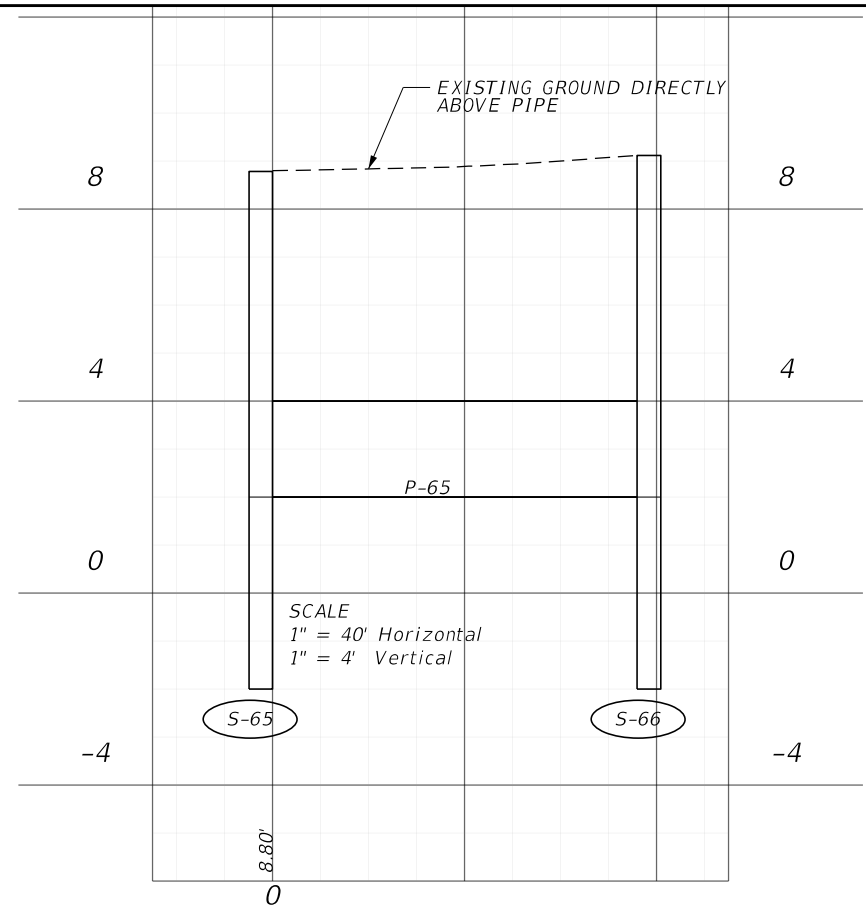
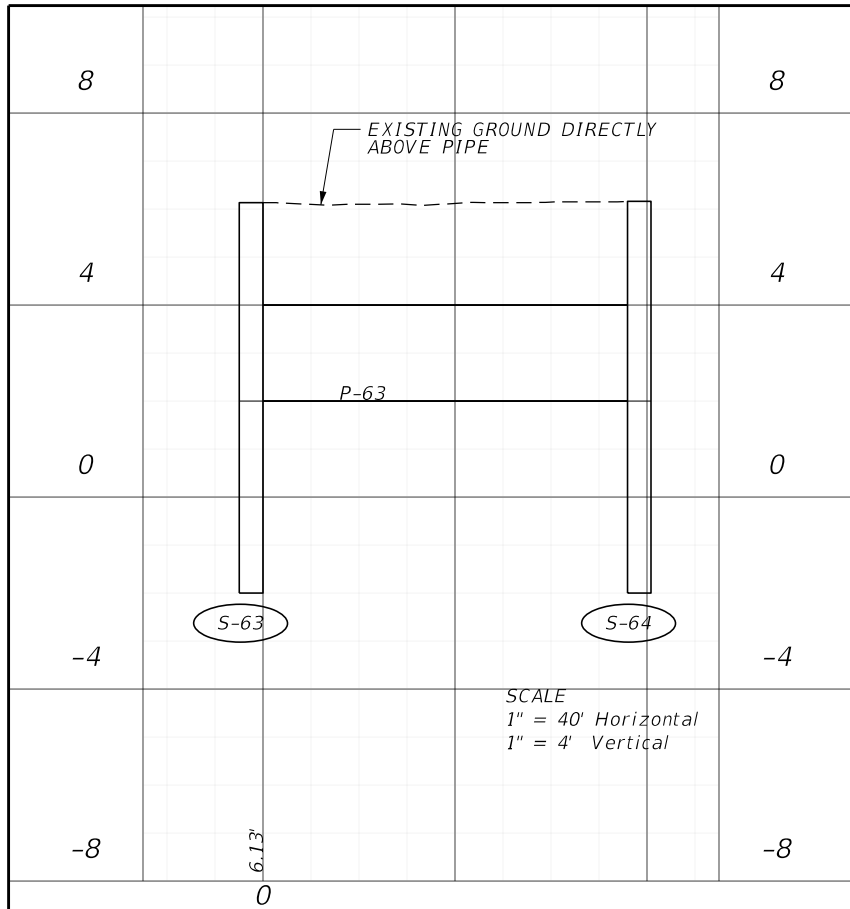


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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						SR 5	MONROE	447810-1-52-01	82

DRAINAGE STRUCTURES

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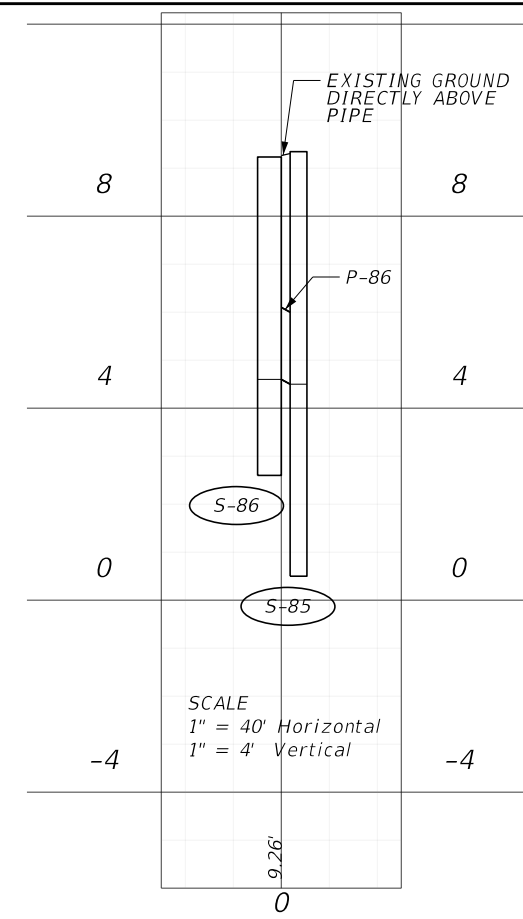
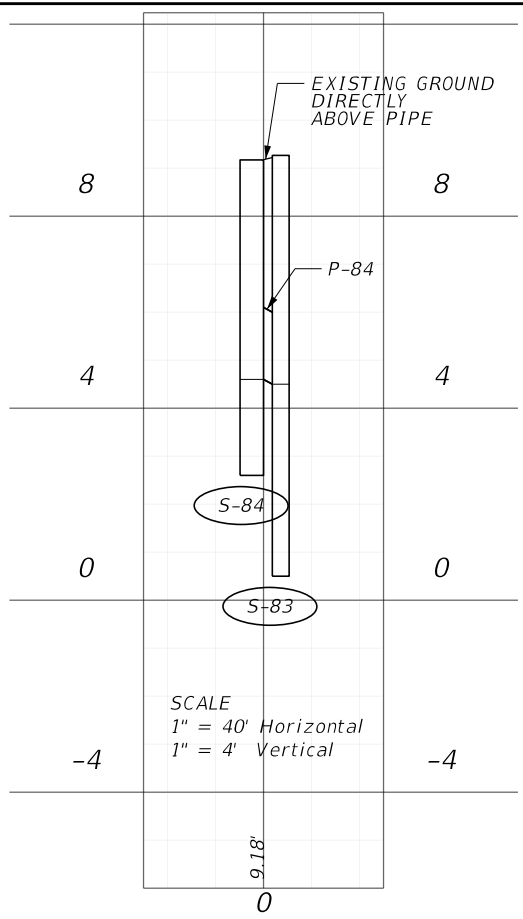
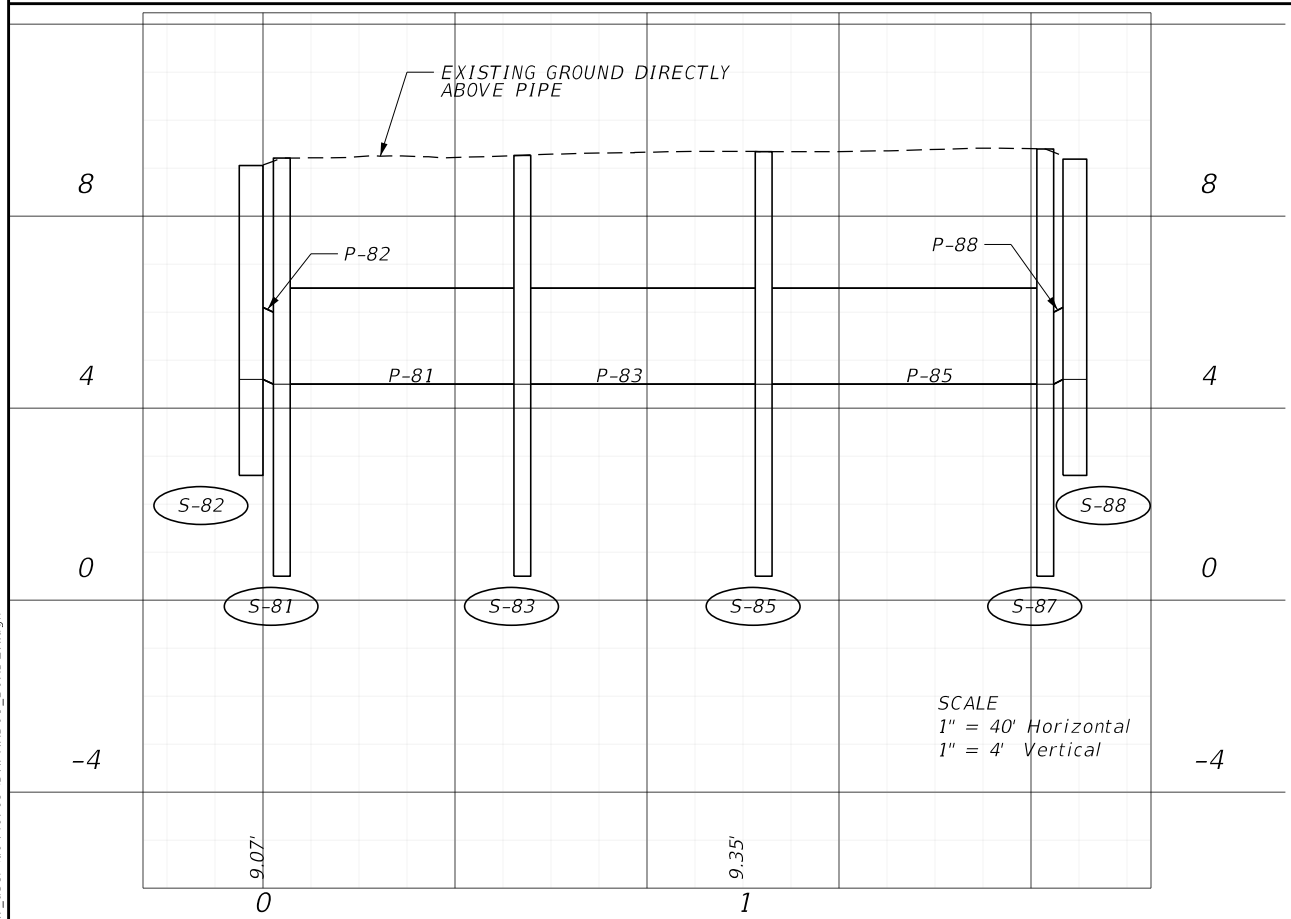
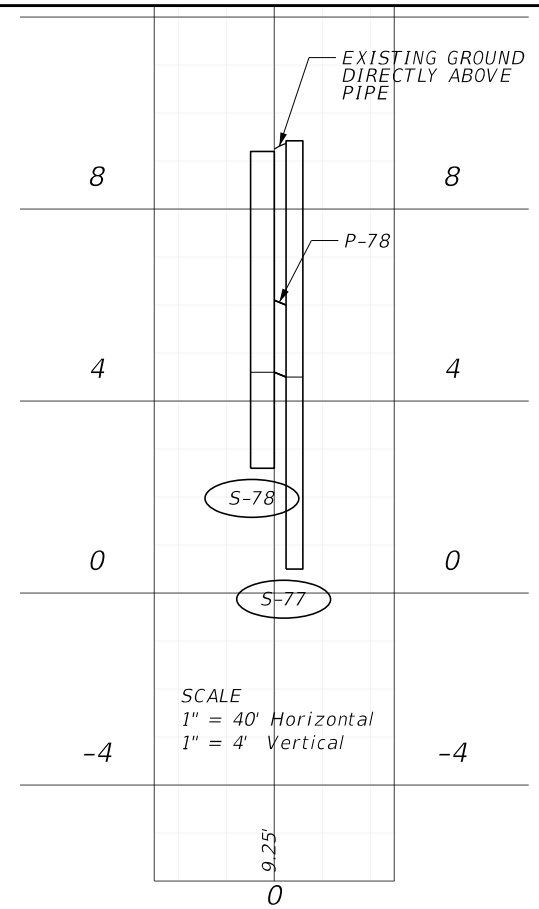
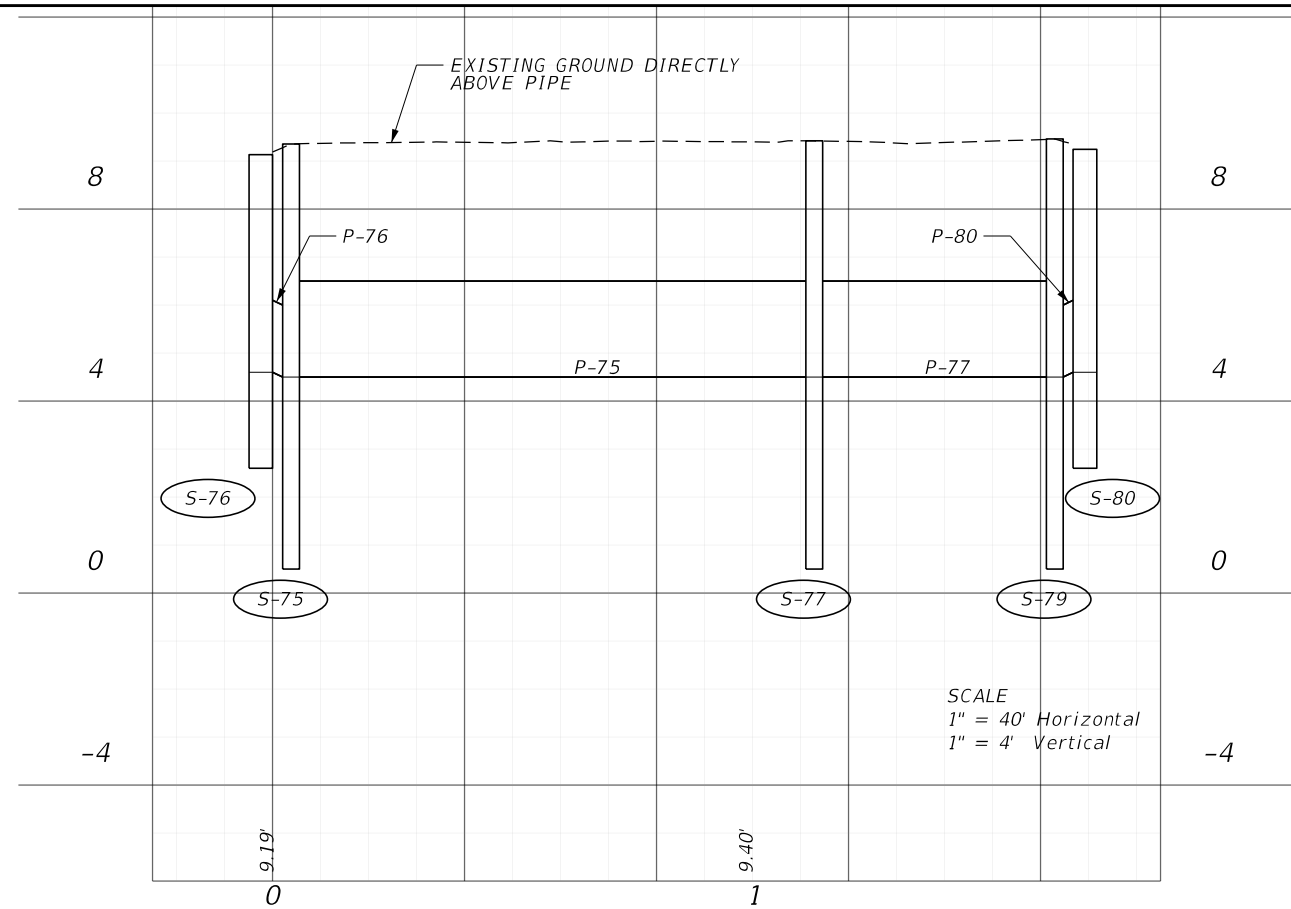
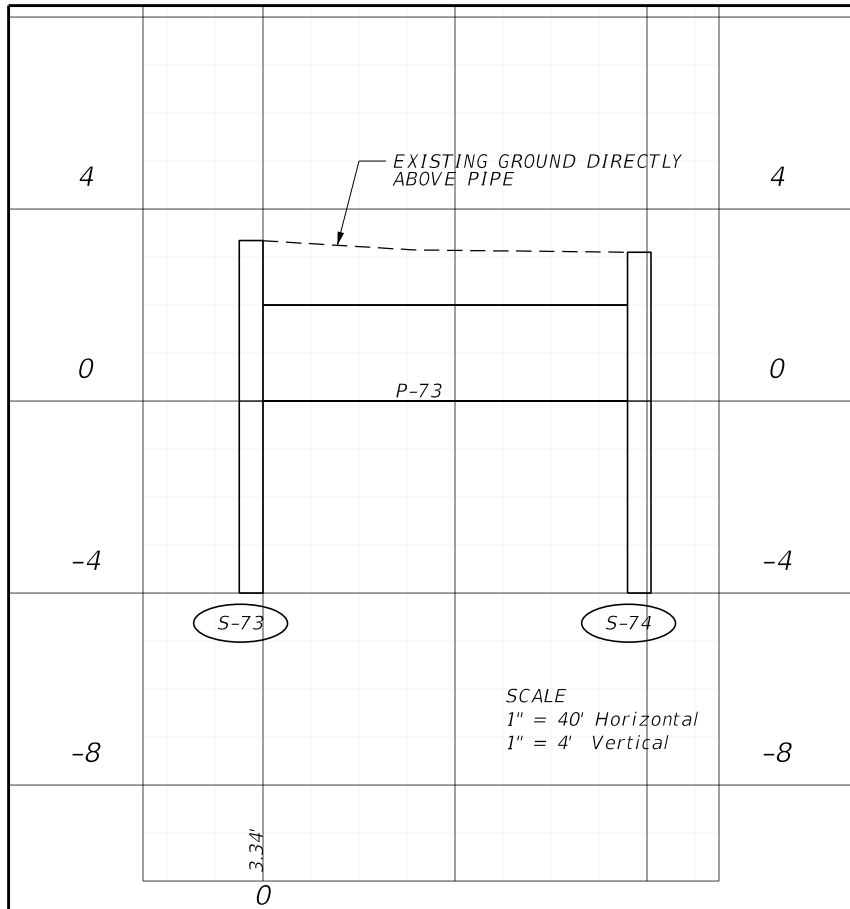


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DRAINAGE STRUCTURES

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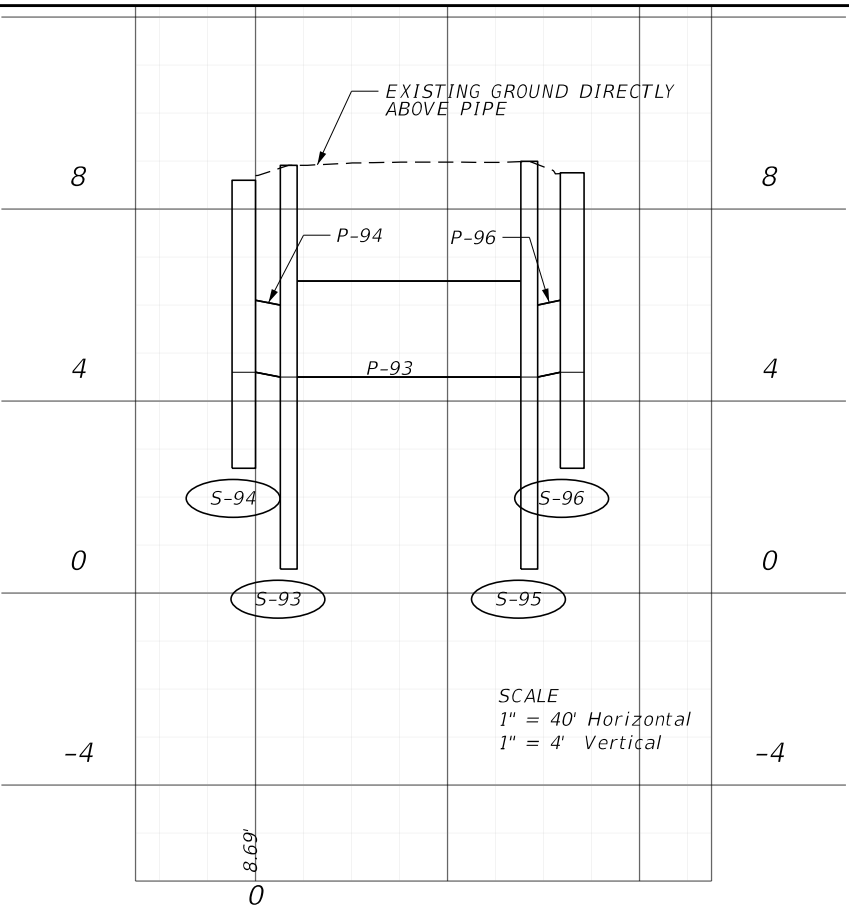
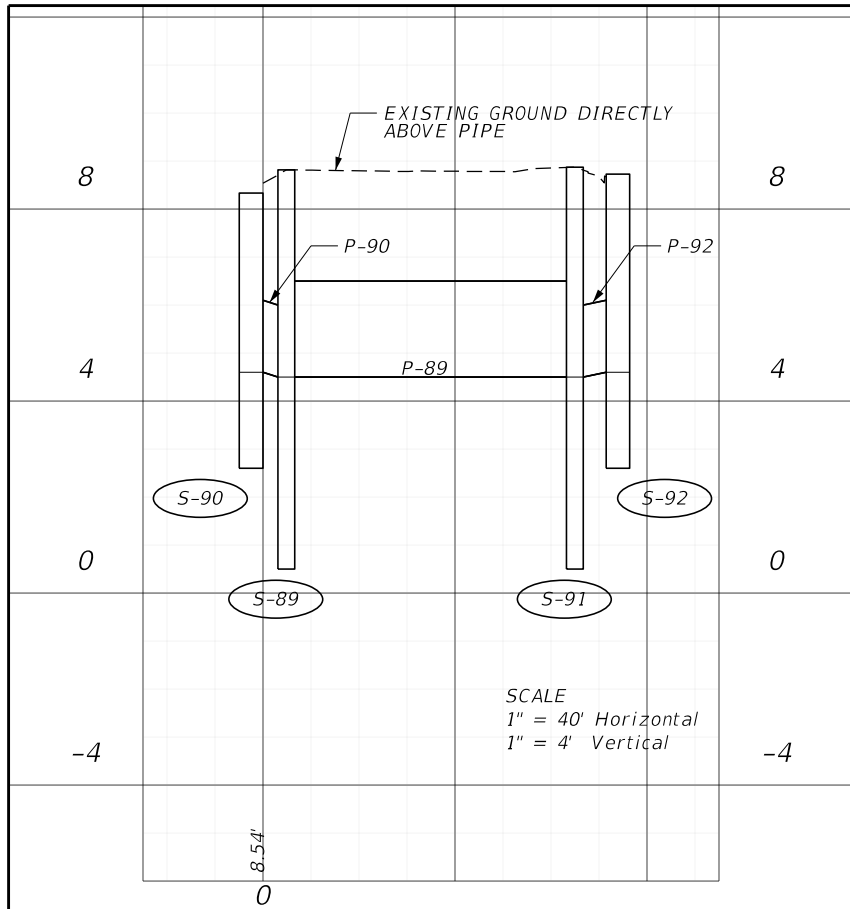


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DRAINAGE STRUCTURES

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		85
						SR 5	MONROE	447810-1-52-01		

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Structure Data

Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Bottom Dimensions	FDOT Standard Plans (400 index series) Notes	Reference Point Elevation (ft)	Sump Elevation (Structure Invert) (ft)	-Pipe- Label
S-01	CL CONST SR-5	157+00	-36.70	DBI TYPE D			5.82	-3.00	(Out) P-01
S-02	CL CONST SR-5	157+60	-35.01	DBI TYPE D			6.05	-3.00	(In) P-01
S-03	CL CONST SR-5	158+00	-34.40	DBI TYPE D			5.84	-3.00	(Out) P-03
S-04	CL CONST SR-5	158+80	-33.29	DBI TYPE D			5.48	-3.00	(In) P-03
S-05	CL CONST SR-5	162+00	-32.51	DBI TYPE D			5.08	-3.00	(Out) P-05
S-06	CL CONST SR-5	162+50	-32.62	DBI TYPE D			4.63	-3.00	(In) P-05
S-07	CL CONST SR-5	168+00	-31.51	DBI TYPE D			4.67	-3.00	(Out) P-07
S-08	CL CONST SR-5	168+60	-31.00	DBI TYPE D			4.99	-3.00	(In) P-07 (In) P-09
S-09	CL CONST SR-5	169+60	-41.00	DBI TYPE C			4.39	-0.70	(Out) P-09
S-10	CL CONST SR-5	176+20	-36.65	DBI TYPE D			6.17	-3.00	(Out) P-10
S-11	CL CONST SR-5	176+70	-35.80	DBI TYPE D			6.48	-3.00	(In) P-10
S-12	CL CONST SR-5	183+00	-29.71	DBI TYPE D			9.15	0.00	(Out) P-12
S-13	CL CONST SR-5	183+60	-29.77	DBI TYPE D			9.18	0.00	(In) P-12
S-14	CL CONST SR-5	186+00	-29.12	DBI TYPE D			9.39	0.00	(Out) P-14
S-15	CL CONST SR-5	187+00	-29.22	DBI TYPE D			9.23	0.00	(In) P-14
S-16	CL CONST SR-5	195+50	-41.79	DBI TYPE D			7.73	0.00	(Out) P-16
S-17	CL CONST SR-5	196+00	-41.39	DBI TYPE D			8.17	0.00	(In) P-16
S-18	CL CONST SR-5	199+00	-29.97	DBI TYPE D			8.96	0.00	(Out) P-18
S-19	CL CONST SR-5	199+50	-30.14	DBI TYPE D			8.70	0.00	(In) P-18
S-20	CL CONST SR-5	201+40	-29.53	DBI TYPE D			8.49	-1.00	(Out) P-20

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REVISIONS		ENGINEER OF RECORD																								
DATE	DESCRIPTION	DATE	DESCRIPTION																							
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																								
SR 5	MONROE	447810-1-52-01																								
86																										

Structure Data

Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Bottom Dimensions	FDOT Standard Plans (400 index series) Notes	Reference Point Elevation (ft)	Sump Elevation (Structure Invert) (ft)	-Pipe-Label
S-21	CL CONST SR-5	202+00	-29.75	DBI TYPE D			8.27	-1.00	(In) P-20
S-22	CL CONST SR-5	203+00	-29.77	DBI TYPE D			7.82	-1.00	(Out) P-22
S-23	CL CONST SR-5	203+60	-29.33	DBI TYPE D			7.89	-1.00	(In) P-22
S-24	CL CONST SR-5	205+00	-29.86	DBI TYPE D			8.17	-1.00	(Out) P-24
S-25	CL CONST SR-5	205+60	-29.43	DBI TYPE D			8.21	-1.00	(In) P-24 (In) P-26
S-26	CL CONST SR-5	207+44	-33.00	DBI TYPE C			8.56	3.86	(Out) P-26
S-27	CL CONST SR-5	213+40	-30.34	DBI TYPE D			9.23	-1.00	(Out) P-27
S-28	CL CONST SR-5	214+20	-29.67	DBI TYPE D			9.26	-1.00	(In) P-27
S-29	CL CONST SR-5	215+40	-30.38	DBI TYPE D			9.08	-1.00	(Out) P-29
S-30	CL CONST SR-5	216+00	-30.32	DBI TYPE D			9.08	-1.00	(In) P-29
S-31	CL CONST SR-5	224+60	-30.41	DBI TYPE D			8.31	-1.00	(Out) P-31
S-32	CL CONST SR-5	225+20	-30.25	DBI TYPE D			8.20	-1.00	(In) P-31
S-33	CL CONST SR-5	226+00	-30.26	DBI TYPE D			8.15	-1.00	(Out) P-33
S-34	CL CONST SR-5	226+50	-30.40	DBI TYPE D			7.95	-1.00	(In) P-33
S-35	CL CONST SR-5	227+80	-30.28	DBI TYPE D			8.52	-1.00	(Out) P-35
S-36	CL CONST SR-5	228+40	-30.28	DBI TYPE D			8.54	-1.00	(In) P-35
S-37	CL CONST SR-5	235+00	-30.46	DBI TYPE D			8.12	-1.00	(Out) P-37
S-38	CL CONST SR-5	235+60	-30.62	DBI TYPE D			8.14	-1.00	(In) P-37
S-39	CL CONST SR-5	242+50	-28.58	DBI TYPE D			7.44	2.10	(Out) P-39
S-40	CL CONST SR-5	243+76	-30.22	DBI TYPE D			7.29	1.90	(In) P-39 (Out) P-40

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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th colspan="2">ENGINEER OF RECORD</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS		ENGINEER OF RECORD		DATE	DESCRIPTION	DATE	DESCRIPTION					<p align="center">STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <td>ROAD NO.</td> <td>COUNTY</td> <td>FINANCIAL PROJECT ID</td> </tr> <tr> <td>SR 5</td> <td>MONROE</td> <td>447810-1-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 5	MONROE	447810-1-52-01	<p align="center">DRAINAGE STRUCTURES</p>	SHEET NO.
REVISIONS		ENGINEER OF RECORD																								
DATE	DESCRIPTION	DATE	DESCRIPTION																							
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																								
SR 5	MONROE	447810-1-52-01																								
<p align="center">PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126</p>				87																						

Structure Data

Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Bottom Dimensions	FDOT Standard Plans (400 index series) Notes	Reference Point Elevation (ft)	Sump Elevation (Structure Invert) (ft)	-Pipe- Label
S-41	CL CONST SR-5	245+00	-29.75	DBI TYPE D			7.52	-1.00	(In) P-40 (Out) P-41
S-42	CL CONST SR-5	245+80	-29.77	DBI TYPE D			7.53	-1.00	(In) P-41
S-43	CL CONST SR-5	251+00	-30.19	DBI TYPE D			7.82	-1.00	(Out) P-43
S-44	CL CONST SR-5	252+00	-30.45	DBI TYPE D			7.52	-1.00	(In) P-43
S-45	CL CONST SR-5	257+40	-30.45	DBI TYPE D			6.02	-3.00	(Out) P-45
S-46	CL CONST SR-5	258+30	-30.68	DBI TYPE D			5.56	-3.00	(In) P-45
S-47	CL CONST SR-5	258+55	-30.68	DBI TYPE C			5.55	-2.60	(In) P-48
S-48	CL CONST SR-5	259+30	-33.72	DBI TYPE C			5.39	-2.80	(Out) P-48
S-49	CL CONST SR-5	264+20	-30.71	DBI TYPE D			5.76	-4.00	(Out) P-49
S-50	CL CONST SR-5	265+20	-31.02	DBI TYPE D			5.67	-4.00	(In) P-49
S-51	CL CONST SR-5	267+40	-30.69	DBI TYPE D			5.72	-4.00	(Out) P-51
S-52	CL CONST SR-5	268+40	-30.96	DBI TYPE D			5.57	-4.00	(In) P-51
S-53	CL CONST SR-5	271+00	-31.57	DBI TYPE D			5.53	-4.00	(Out) P-53
S-54	CL CONST SR-5	272+00	-31.83	DBI TYPE D			5.28	-4.00	(In) P-53
S-55	CL CONST SR-5	279+00	-33.24	DBI TYPE D			4.41	-4.00	(Out) P-55
S-56	CL CONST SR-5	279+80	-32.47	DBI TYPE D			4.13	-4.00	(In) P-55
S-57	CL CONST SR-5	281+00	-33.54	DBI TYPE D			4.88	-4.00	(Out) P-57
S-58	CL CONST SR-5	282+00	-33.58	DBI TYPE D			4.97	-4.00	(In) P-57
S-59	CL CONST SR-5	285+00	-31.65	DBI TYPE D			7.66	-2.00	(Out) P-59

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 5	MONROE	447810-1-52-01		88

Structure Data									
Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Bottom Dimensions	FDOT Standard Plans (400 index series) Notes	Reference Point Elevation (ft)	Sump Elevation (Structure Invert) (ft)	-Pipe-Label
S-60	CL CONST SR-5	286+00	-31.19	DBI TYPE D			8.31	-2.00	(In) P-59
S-61	CL CONST SR-5	290+20	-33.57	DBI TYPE D			7.45	-2.00	(Out) P-61
S-62	CL CONST SR-5	291+20	-33.08	DBI TYPE D			6.62	-2.00	(In) P-61
S-63	CL CONST SR-5	293+40	-31.03	DBI TYPE D			6.13	-2.00	(Out) P-63
S-64	CL CONST SR-5	294+20	-30.63	DBI TYPE D			6.16	-2.00	(In) P-63
S-65	CL CONST SR-5	299+40	-35.63	DBI TYPE D			8.79	-2.00	(Out) P-65
S-66	CL CONST SR-5	300+20	-34.85	DBI TYPE D			9.12	-2.00	(In) P-65
S-67	CL CONST SR-5	301+00	-25.96	CURB INLET TYPE 1	4' DIA.		9.26	-4.00	(Out) P-67
S-68	CL CONST SR-5	302+20	-31.54	CURB INLET TYPE 1	4' DIA.		8.35	-4.00	(In) P-67 (In) P-69
S-69	CL CONST SR-5	303+40	-37.13	CURB INLET TYPE 5	3.5' x 3.5'		7.55	0.30	(Out) P-69
S-70	CL CONST SR-5	307+03	-63.94	CURB INLET TYPE 5	3.5' x 3.5'		4.54	-1.60	(Out) P-70
S-72	CL CONST SR-5	308+32	21.34	CLOSED FLUME			4.11		
S-73	CL CONST SR-5	308+31	36.97	DBI TYPE D			3.35	-4.00	(Out) P-73
S-74	CL CONST SR-5	309+11	36.49	DBI TYPE D			3.10	-4.00	(In) P-73
S-76	CL CONST SR-5	186+09	30.13	GUTTER INLET TYPE V			9.13	2.60	(Out) P-76
S-78	CL CONST SR-5	187+18	30.16	GUTTER INLET TYPE V			9.20	2.60	(Out) P-78
S-80	CL CONST SR-5	187+68	30.33	GUTTER INLET TYPE V			9.25	2.60	(Out) P-80
S-82	CL CONST SR-5	192+00	29.13	GUTTER INLET TYPE V			9.06	2.60	(Out) P-82
S-84	CL CONST SR-5	192+50	29.13	GUTTER INLET TYPE V			9.17	2.60	(Out) P-84

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE	447810-1-52-01		89

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Structure Data

<i>Label</i>	<i>Baseline Feature</i>	<i>Baseline Station (ft)</i>	<i>Baseline Offset (ft)</i>	<i>Structure Type</i>	<i>Bottom Dimensions</i>	<i>FDOT Standard Plans (400 index series) Notes</i>	<i>Reference Point Elevation (ft)</i>	<i>Sump Elevation (Structure Invert) (ft)</i>	<i>-Pipe-Label</i>
S-86	CL CONST SR-5	193+00	29.13	GUTTER INLET TYPE V			9.23	2.60	(Out) P-86
S-88	CL CONST SR-5	193+59	29.14	GUTTER INLET TYPE V			9.19	2.60	(Out) P-88
S-90	CL CONST SR-5	206+15	27.71	GUTTER INLET TYPE V			8.34	2.60	(Out) P-90
S-92	CL CONST SR-5	206+75	29.15	GUTTER INLET TYPE V			8.73	2.60	(Out) P-92
S-94	CL CONST SR-5	207+25	29.13	GUTTER INLET TYPE V			8.6	2.60	(Out) P-94
S-96	CL CONST SR-5	207+75	29.15	GUTTER INLET TYPE V			8.75	2.60	(Out) P-96

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REVISIONS				ENGINEER OF RECORD	
DATE	DESCRIPTION	DATE	DESCRIPTION		
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
90

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Structure Data

Label	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	Structure Type	Bottom Dimensions	FDOT Standard Plans (400 index series) Notes	Remarks	Reference Point Elevation (ft)	Sump Elevation (Structure Invert) (ft)	-Pipe- Label
S-71	CL CONST SR-5	307+23	-64.61	MANHOLE TYPE 7	3.5' DIA.			4.42	-4.00	
										(In) P-70
										(Out) P-71
S-79	CL CONST SR-5	187+68	24.85	MANHOLE TYPE 7	3.5' DIA.			9.46	0.50	
										(In) P-77
										(In) P-80
S-75	CL CONST SR-5	186+09	24.65	MANHOLE TYPE 7	3.5' DIA.			9.36	0.50	
										(In) P-75
										(In) P-76
S-77	CL CONST SR-5	187+18	24.36	MANHOLE TYPE 7	3.5' DIA.			9.42	0.50	
										(In) P-78
										(Out) P-75
										(Out) P-77
S-81	CL CONST SR-5	192+00	23.58	MANHOLE TYPE 7	3.5' DIA.			9.21	0.50	
										(In) P-82
										(Out) P-81
S-83	CL CONST SR-5	192+50	23.96	MANHOLE TYPE 7	3.5' DIA.			9.27	0.50	
										(In) P-81
										(In) P-84
										(Out) P-83
S-85	CL CONST SR-5	193+00	23.90	MANHOLE TYPE 7	3.5' DIA.			9.35	0.50	
										(In) P-83
										(In) P-86
										(Out) P-85
S-87	CL CONST SR-5	193+59	23.84	MANHOLE TYPE 7	3.5' DIA.			9.40	0.50	
										(In) P-85
										(In) P-88
S-89	CL CONST SR-5	206+15	21.20	MANHOLE TYPE 7	3.5' DIA.			8.82	0.50	
										(In) P-90
										(Out) P-89
S-91	CL CONST SR-5	206+75	21.02	MANHOLE TYPE 7	3.5' DIA.			8.87	0.50	
										(In) P-92
										(In) P-89
S-93	CL CONST SR-5	207+25	20.63	MANHOLE TYPE 7	3.5' DIA.			8.91	0.50	
										(In) P-94
										(Out) P-93
S-95	CL CONST SR-5	207+75	21.00	MANHOLE TYPE 7	3.5' DIA.			9.00	0.50	
										(In) P-96
										(In) P-93

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION		DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	91		
						SR 5	MONROE	447810-1-52-01			

Pipe Data								
Label	Barrels	Length (Const.) (ft)	Size	Start Node (Upper)	Start Invert (ft)	Stop Node (Lower)	Stop Invert (ft)	Optional Pipe
P-01	1	56	24 inch	S-01	1.00	S-02	1.00	Group 2
P-03	1	76	24 inch	S-03	1.00	S-04	1.00	Group 2
P-05	1	46	24 inch	S-05	1.00	S-06	1.00	Group 2
P-07	1	56	24 inch	S-07	1.00	S-08	1.00	Group 2
P-09	1	97	18 inch	S-09	1.30	S-08	1.00	Group 1
P-10	1	46	24 inch	S-10	1.00	S-11	1.00	Group 2
P-12	1	56	24 inch	S-12	4.00	S-13	4.00	Group 2
P-14	1	96	24 inch	S-14	4.00	S-15	4.00	Group 2
P-16	1	46	24 inch	S-16	4.00	S-17	4.00	Group 2
P-18	1	46	24 inch	S-18	4.00	S-19	4.00	Group 2
P-20	1	56	24 inch	S-20	3.00	S-21	3.00	Group 2
P-22	1	56	24 inch	S-22	3.00	S-23	3.00	Group 2
P-24	1	56	24 inch	S-24	3.00	S-25	3.00	Group 2
P-26	1	181	18 inch	S-26	5.86	S-25	3.00	Group 1
P-27	1	76	24 inch	S-27	3.00	S-28	3.00	Group 2
P-29	1	56	24 inch	S-29	3.00	S-30	3.00	Group 2
P-31	1	56	24 inch	S-31	3.00	S-32	3.00	Group 2
P-33	1	46	24 inch	S-33	3.00	S-34	3.00	Group 2
P-35	1	56	24 inch	S-35	3.00	S-36	3.00	Group 2
P-37	1	56	24 inch	S-37	3.00	S-38	3.00	Group 2
P-39	1	122	18 inch	S-39	4.10	S-40	3.90	Group 1
P-40	1	120	18 inch	S-40	3.90	S-41	3.00	Group 1
P-41	1	76	24 inch	S-41	3.00	S-42	3.00	Group 2
P-43	1	96	24 inch	S-43	3.00	S-44	3.00	Group 2
P-45	1	86	24 inch	S-45	1.00	S-46	1.00	Group 2
P-48	1	72	18 inch	S-48	0.80	S-47	0.60	Group 1
P-49	1	96	24 inch	S-49	0.00	S-50	0.00	Group 2
P-51	1	96	24 inch	S-51	0.00	S-52	0.00	Group 2
P-53	1	96	24 inch	S-53	0.00	S-54	0.00	Group 2

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		92
						SR 5	MONROE	447810-1-52-01		

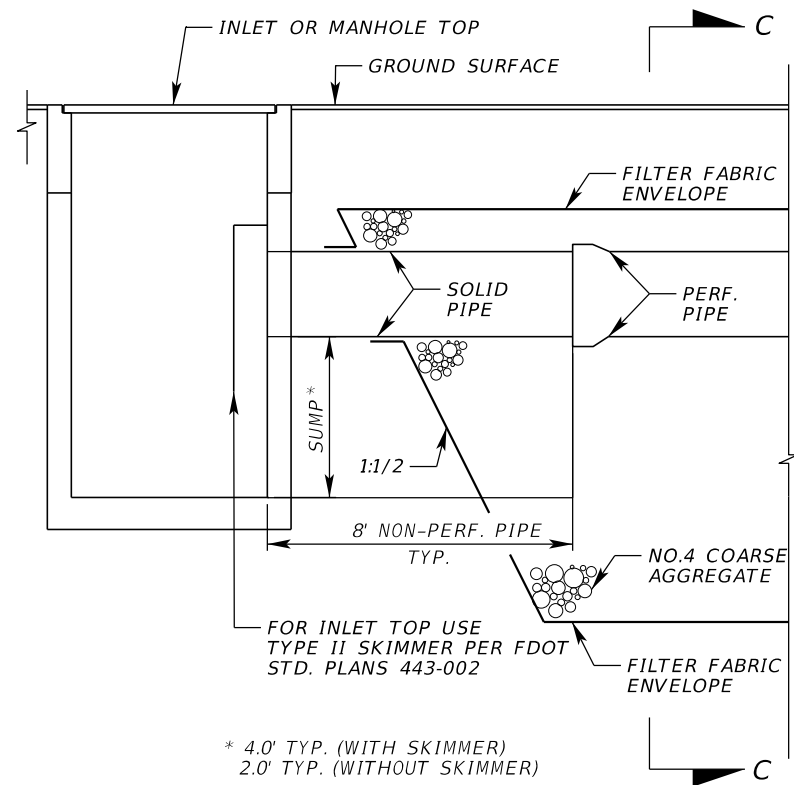
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Pipe Data								
Label	Barrels	Length (Const.) (ft)	Size	Start Node (Upper)	Start Invert (ft)	Stop Node (Lower)	Stop Invert (ft)	Optional Pipe
P-55	1	75	24 inch	S-55	0.00	S-56	0.00	Group 2
P-57	1	95	24 inch	S-57	0.00	S-58	0.00	Group 2
P-59	1	96	24 inch	S-59	2.00	S-60	2.00	Group 2
P-61	1	96	24 inch	S-61	2.00	S-62	2.00	Group 2
P-63	1	76	24 inch	S-63	2.00	S-64	2.00	Group 2
P-65	1	76	24 inch	S-65	2.00	S-66	2.00	Group 2
P-67	1	116	24 inch	S-67	0.00	S-68	0.00	Group 2
P-69	1	116	18 inch	S-69	2.30	S-68	0.00	Group 1
P-70	1	18	18 inch	S-70	0.40	S-71	0.00	Group 1
P-71	1	50	24 inch	S-71	0.00	S-null	0.00	Group 2
P-73	1	76	24 inch	S-73	0.00	S-74	0.00	Group 2
P-75	1	105	24 inch	S-77	4.50	S-75	4.50	Group 2
P-76	1	2	18 inch	S-76	4.60	S-75	4.50	Group 1
P-77	1	47	24 inch	S-77	4.50	S-79	4.50	Group 2
P-78	1	2	18 inch	S-78	4.60	S-77	4.50	Group 1
P-80	1	2	18 inch	S-80	4.60	S-79	4.50	Group 1
P-81	1	47	24 inch	S-81	4.50	S-83	4.50	Group 2
P-82	1	2	18 inch	S-82	4.60	S-81	4.50	Group 1
P-83	1	47	24 inch	S-83	4.50	S-85	4.50	Group 2
P-84	1	2	18 inch	S-84	4.60	S-83	4.50	Group 1
P-85	1	55	24 inch	S-85	4.50	S-87	4.50	Group 2
P-86	1	2	18 inch	S-86	4.60	S-85	4.50	Group 1
P-88	1	2	18 inch	S-88	4.60	S-87	4.50	Group 1
P-89	1	57	24 inch	S-89	4.50	S-91	4.50	Group 2
P-90	1	3	18 inch	S-90	4.60	S-89	4.50	Group 1
P-92	1	5	18 inch	S-92	4.60	S-91	4.50	Group 1
P-93	1	47	24 inch	S-93	4.50	S-95	4.50	Group 2
P-94	1	5	18 inch	S-94	4.60	S-93	4.50	Group 1
P-96	1	5	18 inch	S-96	4.60	S-95	4.50	Group 1

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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		93
						SR 5	MONROE	447810-1-52-01		

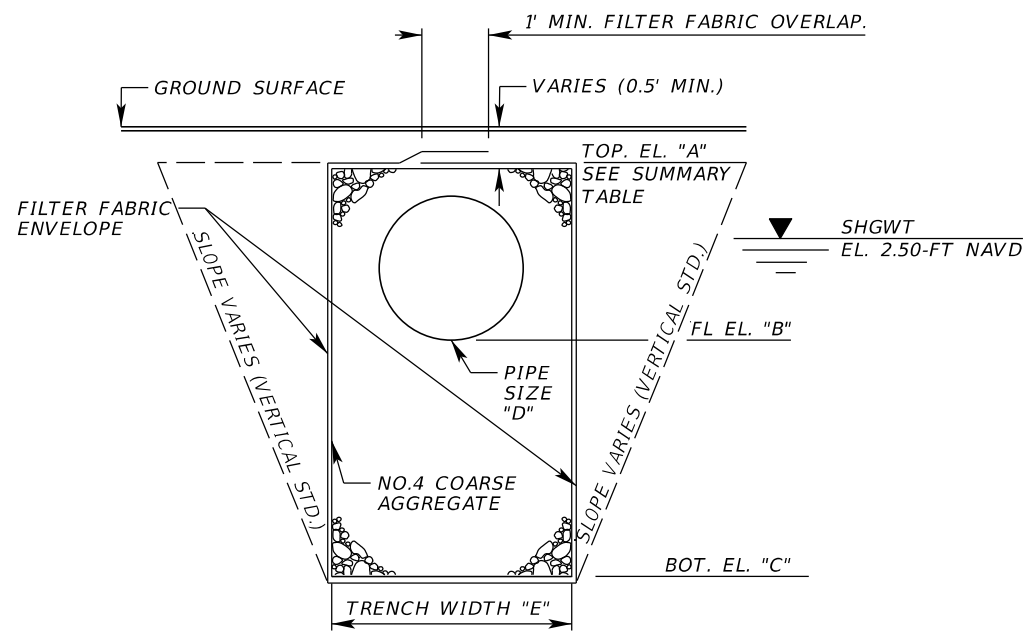
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FRENCH DRAIN TRENCH AND STRUCTURE DETAIL

N.T.S.

NOTE: REFER TO INDEX 443-001 FOR ADDITIONAL INFORMATION



SECTION C-C

N.T.S.

French Drain Data					
Pipe Data Label	TOP. EL. "A"	FL. EL. "B"	BOT. EL. "C"	PIPE SIZE "D"	TRENCH WIDTH "E"
P-59	5.51	2.00	-2.00	24"	4.50
P-61	5.51	2.00	-2.00	24"	4.50
P-63	5.51	2.00	-2.00	24"	4.50
P-65	5.51	2.00	-2.00	24"	4.50
P-67	3.65	0.00	-2.00	24"	4.50
P-71	3.65	0.00	-2.00	24"	4.50
P-73	3.65	0.00	-2.00	24"	4.50
P-75	8.72	4.50	2.00	24"	4.50
P-77	8.72	4.50	2.00	24"	4.50
P-81	8.75	4.50	2.00	24"	4.50
P-83	8.75	4.50	2.00	24"	4.50
P-85	8.75	4.50	2.00	24"	4.50
P-89	8.01	4.50	2.00	24"	4.50
P-93	8.01	4.50	2.00	24"	4.50

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
 PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
95

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Optional Materials Tabulation					
Group Number	Size(s) (Inches)	Material	Plotted	As Built	Remarks
Group 1	18	NRCP, CLASS HE I	X		DSL 100 YEARS
		SRAP			
		PVC, ASTM F-949			
		POLYPROPYLENE, CLASS II			
Group 2	24	NRCP, CLASS HE I	X		DSL 50 YEARS
		HDPE, CLASS II			
		POLYPROPYLENE, CLASS II			
		PVC, ASTM F-949			
		SRAP			
		RCP, CLASS I			
		HDPE, CLASS I			
Group 3	24	NRCP, CLASS HE I	X		DSL 100 YEARS
		POLYPROPYLENE, CLASS II			
		PVC, ASTM F-949			
		SRAP			

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			OPTIONAL MATERIALS TABULATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 5	MONROE	447810-1-52-01		96

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Utility Conflicts								
Label	Conflictee	Conflicter	Baseline Feature	Baseline Station (ft)	Baseline Offset (ft)	X (ft)	Y (ft)	Notes
Conflict Node-1	P-09	4" BT	CL CONST. SR 5	169+30.17	-38.01	801179.55	230107.86	
Conflict Node-2	S-10	4" BT	CL CONST. SR 5	176+20.00	-35.84	801613.42	230641.33	
Conflict Node-3	P-10	4" BT	CL CONST. SR 5	176+33.95	-35.60	801623.66	230653.62	
Conflict Node-7	S-11	4" BT	CL CONST. SR 5	176+70.00	-34.37	801645.99	230679.3	
Conflict Node-8	S-26	4" BT	CL CONST. SR 5	207+44.00	-34.21	803589.04	233061.86	
Conflict Node-9	P-40	4" BT	CL CONST. SR 5	244+28.24	-29.61	805922.48	235915.24	
Conflict Node-10	S-69	4" BT	CL CONST. SR 5	303+40.00	-40.47	808878.23	240934.7	
Conflict Node-12	S-68	4" BT	CL CONST. SR 5	302+20.00	-39.52	808837.67	240824.49	
Conflict Node-13	S-69	4" BT	CL CONST. SR 5	303+40.00	-37.94	808882.05	240937.67	
Conflict Node-14	S-56	4" BE	CL CONST. SR 5	279+80.00	-30.74	808074.42	238717.43	
Conflict Node-15	S-59	4" BE	CL CONST. SR 5	285+00.00	-30.18	808259.2	239206.17	
Conflict Node-16	S-60	4" BE	CL CONST. SR 5	286+00.00	-29.71	808292.4	239296.16	
Conflict Node-17	S-92	18" WM	CL CONST. SR 5	206+75.00	30.93	803596.72	232968.32	
Conflict Node-18	S-94	18" WM	CL CONST. SR 5	207+25.00	30.90	803628.37	233007.1	
Conflict Node-19	S-96	18" WM	CL CONST. SR 5	207+75.00	30.89	803660.06	233045.89	
Conflict Node-20	P-70	6" WM	CL CONST. SR 5	307+15.60	-64.25	808989.98	241296.77	

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY CONFLICTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		97
							SR 5	MONROE	447810-1-52-01		

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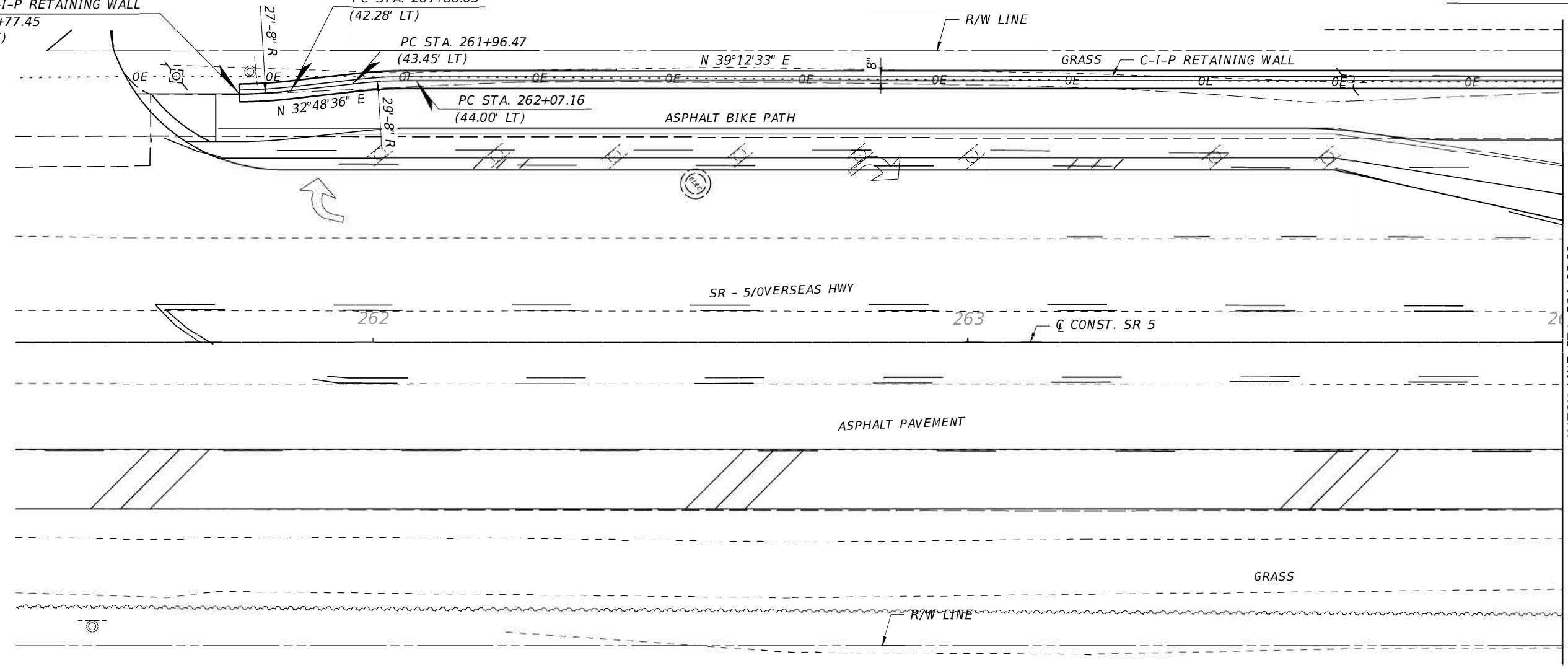
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STA. 261+77.45
(41.76' LT)

PC STA. 261+86.03
(42.28' LT)

PC STA. 261+96.47
(43.45' LT)

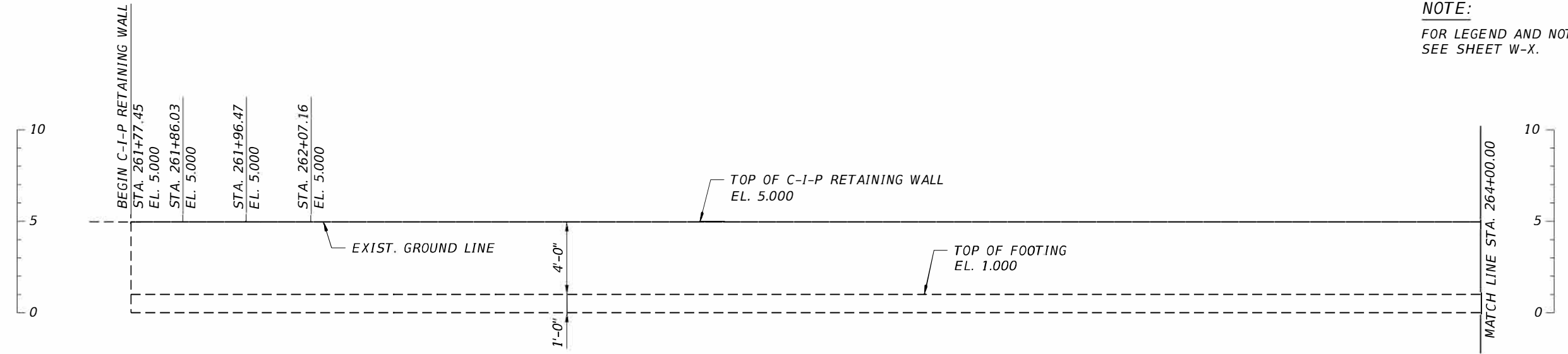
PC STA. 262+07.16
(44.00' LT)

DIRECTION OF STATIONING



PLAN

NOTE:
FOR LEGEND AND NOTES,
SEE SHEET W-X.



ELEVATION

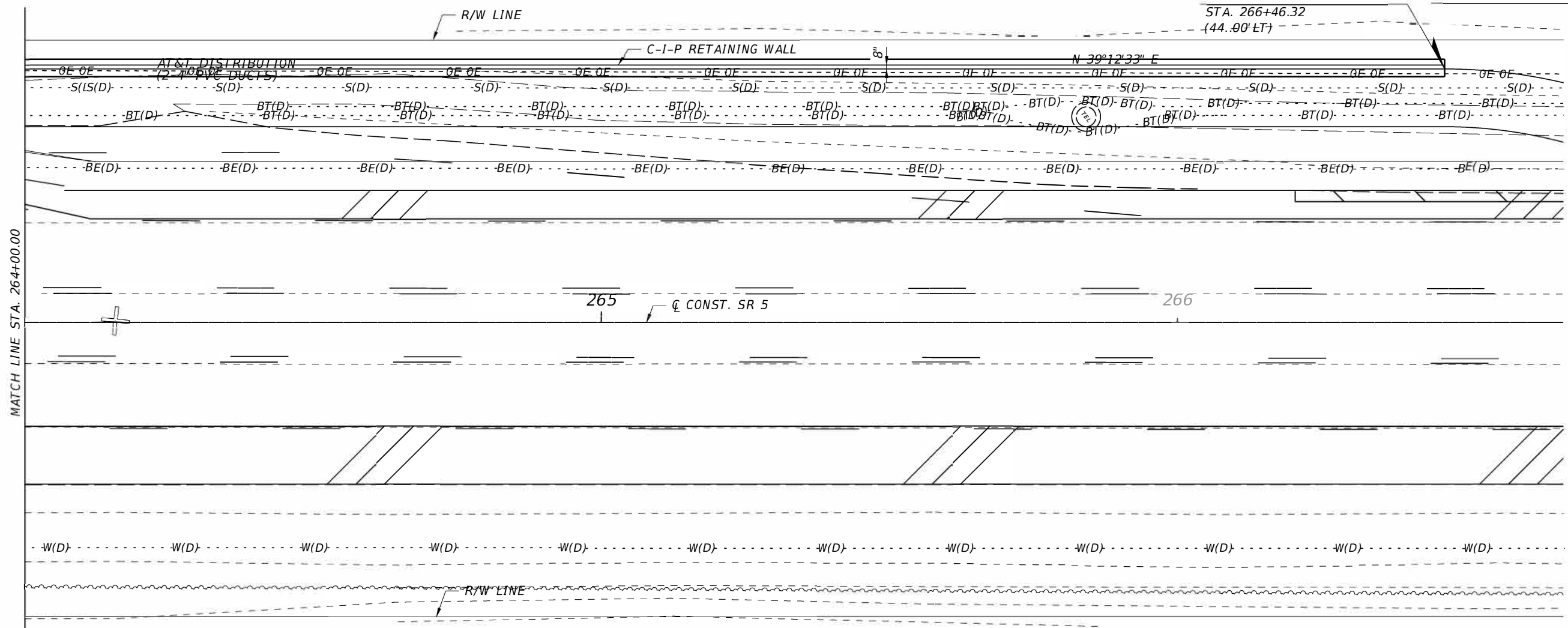
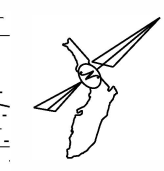
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CIP RETAINING WALL (1 OF 2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	OSCAR J. CRUZ, P.E. LICENSE NUMBER: 63889 CHROME ENGINEERING, INC. 16650 SW 88TH STREET, SUITE 205 MIAMI, FLORIDA 33196		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		98
						SR 5	MONROE	447810-1-52-01		

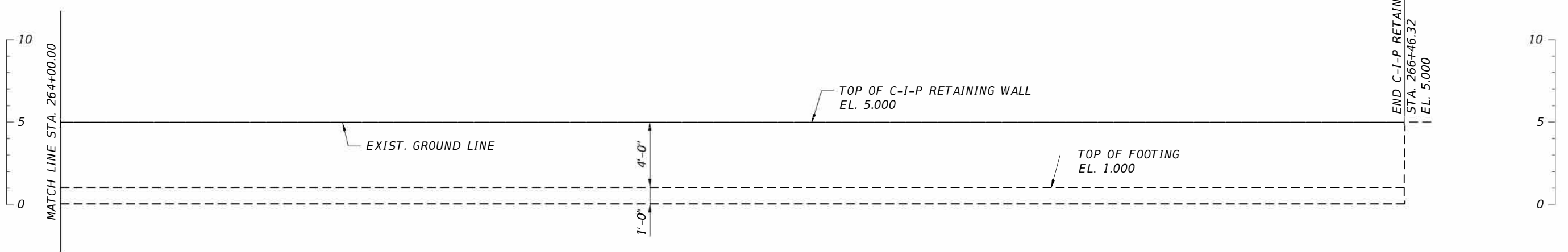
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

END C-I-P RETAINING WALL
 STA. 266+46.32
 (44.00' LT)

DIRECTION OF STATIONING



PLAN

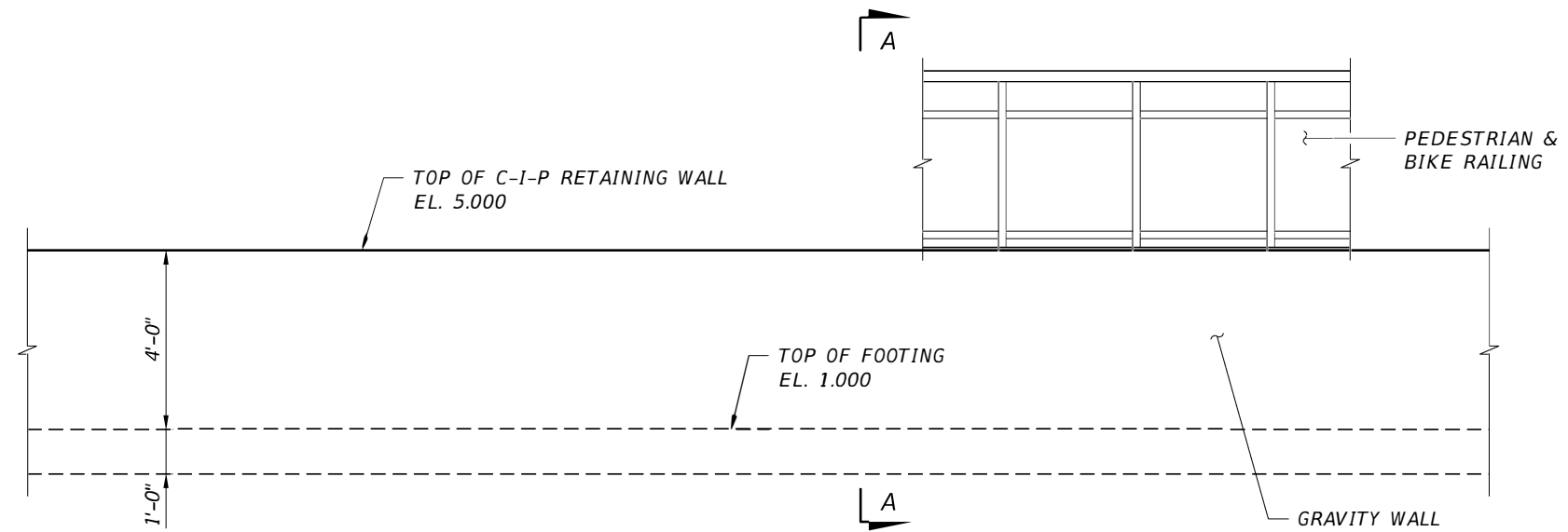


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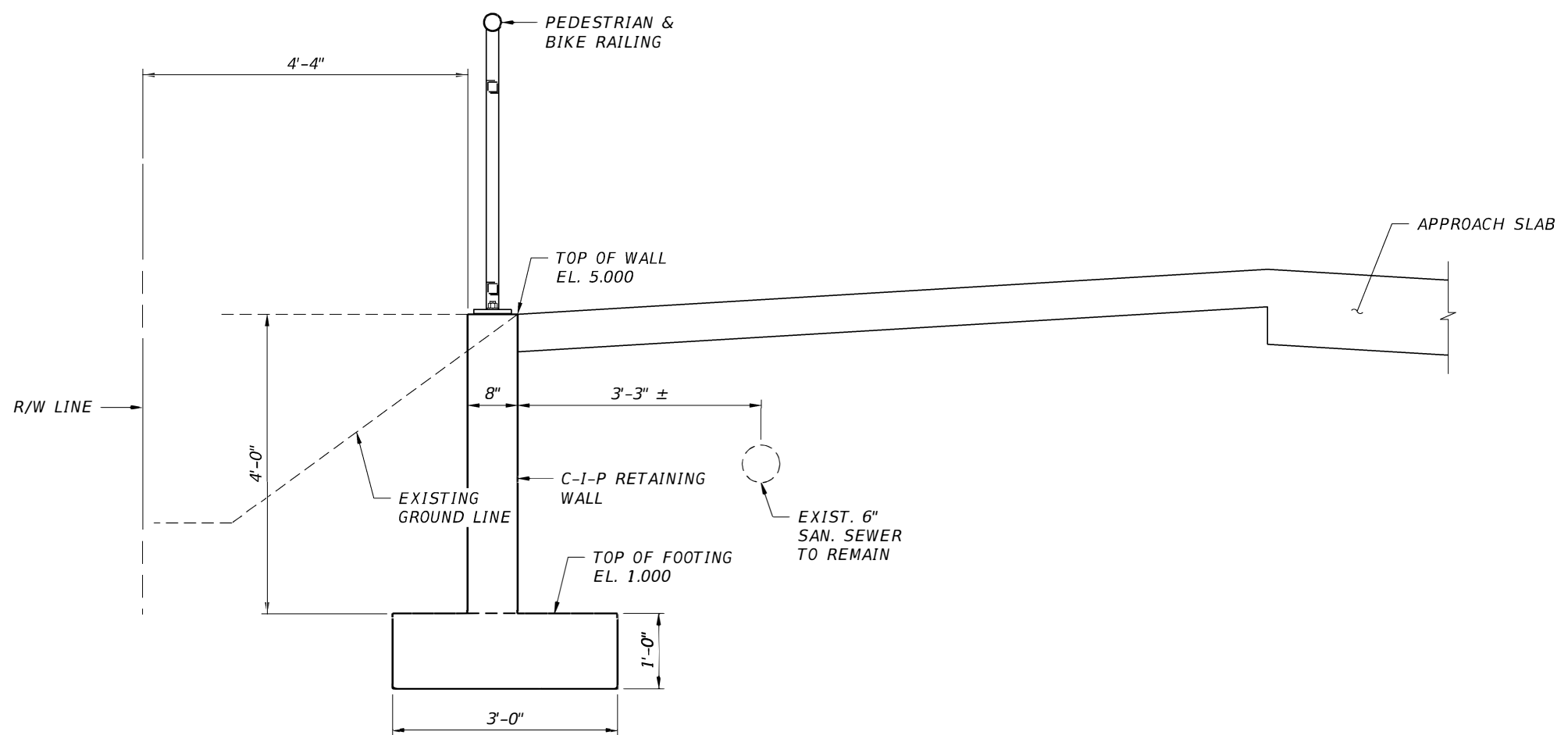
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CIP RETAINING WALL (2 OF 2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	OSCAR J. CRUZ, P.E. LICENSE NUMBER: 63889 CHROME ENGINEERING, INC. 16650 SW 88TH STREET, SUITE 205 MIAMI, FLORIDA 33196		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		99
								SR 5		MONROE

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ELEVATION



SECTION A-A

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				OSCAR J. CRUZ, P.E. LICENSE NUMBER: 63889 CHROME ENGINEERING, INC. 16650 SW 88TH STREET, SUITE 205 MIAMI, FLORIDA 33196		SR 5	MONROE	447810-1-52-01	100
C-I-P RETAINING WALL DETAILS									

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C-I-P CANTILEVER RETAINING WALLS DATA TABLES

Wall No.	Begin		End		Height				Wall Length		D	W	L _{foot}		L _{toe}		Slope Bkwall	D _{soil}		L _{key}	D _{key}	V _{step}	Wall Cover	FtgCov (typ.)	FtgCov (bot.)	
	Station	Offset	Station	Offset	Begin		End		ft.	in.	in.	in.	ft.	in.	ft.	in.		ft.	in.	in.	in.	in.	in.	in.	in.	in.
					ft.	in.	ft.	in.																		
1	261+77.45	41.76' LT	266+46.32	44.00' LT	4	0	4	0	482	6.5	12	8	3	0	1	0	0	3	0	0	0	0	2	3	4	

Wall No.	BILL OF REINFORCING STEEL																												
	Bars J												Bars K								Bars M								
	Size	No.	Spacing	A				B		Average Total Length		Size	No.	Spacing	A				B		Average Total Length		Size	No.	A		B		Total Length
Begin				End	ft.	in.	ft.	in.	ft.	in.	Begin				End	ft.	in.	ft.	in.	ft.	in.	ft.			in.	ft.	in.	ft.	in.
1	4	484	12	4	6	4	6	1	3	5	9	0	0	0	0	0	0	0	0	0	0	4	484	1	12	1	7	3	7

Wall No.	BILL OF REINFORCING STEEL																										
	Bars H				Bars G1				Bars R				Bars Z				Bars A										
	Size	No.	Spacing	Length		Size	No.	Spacing	No. of Lap Splices	Total Length		Size	No.	Length		Size	No.	Spacing	Length		Size	No.	Length		Average Length		
in.				ft.	in.					ft.	ft.			in.	ft.				in.	ft.			in.	ft.	in.	ft.	in.
1	4	484	12	2	6	4	8	12	8	482	0.5	4	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0

Wall No.	BILL OF REINFORCING STEEL																
	Bars F						Bars G2				Bars D						
	Size	No.	Spacing	Length				Average Length		Size	No.	Length		Size	No.	Length	
Begin				End	ft.	in.	ft.	in.	ft.			in.	ft.			in.	
1	4	484	12	3	10	3	10	3	10	4	160	23	9.5	5	80	1	6

NOTES [Notes Date 07-01-14]:

1. Work these Data Tables with Index 400-010.
2. Concrete Class IV ($f'c = 5,500$ psi) with/without silica fume, metakaolin or ultrafine fly ash.
3. Wall exposed face surface texture shall be smooth.
4. Environmental Classification is Extremely Aggressive.
5. Minimum Soil Nominal Bearing Resistance = 8,500 psf.
6. A value of '0' for Slope Backwall indicates front and back of wall are parallel.
7. D_{soil} is typical depth of soil and is used for design purposes only. See Control Drawings for actual ground line.
8. Non-zero values for L_{key} and D_{key} indicate the existence of a shear key.
9. A non-zero value for V_{step} indicates the existence of a footing step, see Control Drawings for location.
10. Bars J, K, A and F vary uniformly between begin and end wall heights as indicated by begin and end dimensions.
11. The number of G1 Bars includes 2 additional bars when a shear key is specified.
12. For walls with variable begin/end height, Bars G2 shall be fanned such that they are evenly spaced throughout length of wall.

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REVISIONS				ENGINEER OF RECORD	
DATE	DESCRIPTION	DATE	DESCRIPTION		
				OSCAR J. CRUZ, P.E. LICENSE NUMBER: 63889 CHROME ENGINEERING, INC. 16650 SW 88TH STREET, SUITE 205 MIAMI, FLORIDA 33196	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

**C-I-P CANTILEVER RETAINING
WALL TABLES AND NOTES**

SHEET
NO.
101

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0. SITE DESCRIPTION

1.A NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT IS A RESURFACING, RECONSTRUCTION, AND REHABILITATION (RRR) OF SR 5 / OVERSEAS HIGHWAY, FROM MM 87.16 TO MM 90.02. THE PURPOSE OF THIS PROJECT IS TO PRESERVE AND EXTEND THE SERVICE LIFE OF THE ROADWAY BY MILLING AND RESURFACING THE EXISTING PAVEMENT AND TO ENHANCE GENERAL HIGHWAY SAFETY. TO PROTECT THE ROADWAY BASE AND MEET BASE CLEARANCE CRITERIA, THIS PROJECT PROPOSES TO RAISE THE ROADWAY ELEVATION BY CONSTRUCTING ASPHALT BASE ON TOP OF THE EXISTING STRUCTURAL COURSE AFTER THE MILLING OPERATIONS.

ACTIVITIES INCLUDE CONSTRUCTION OF MAJOR ROADWAY AND DRAINAGE IMPROVEMENTS.

1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK FOR FRENCH DRAIN CONSTRUCTION.
2. CLEARING AND GRUBBING, EARTHWORK FOR SWALE CONSTRUCTION.
3. STORM DRAIN CONSTRUCTION IN UPSTREAM DIRECTION.
4. EARTHWORK ASSOCIATED WITH CONSTRUCTION OF ROADWAY AND SHORELINE REVETMENT SYSTEM.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 23.57 ACRES
 TOTAL AREA TO BE DISTURBED: 23.57 ACRES

1.D RUNOFF DATA:

RUNOFF COEFFICIENTS:
 BEFORE: 0.70
 DURING: VARIES FROM 0.70 TO 0.72
 AFTER: 0.72

SOIL DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET. IN GENERAL THE SOILS ARE SANDS.

OUTFALL INFORMATION:

THERE ARE NO OUTFALL WITHIN THE PROJECT LIMITS.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

*DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.

*APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE DRAINAGE STRUCTURES AND CROSS-SECTION SHEETS.

*AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON DRAINAGE STRUCTURES AND CROSS-SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

*AREAS NOT TO BE DISTURBED: AREAS BEYOND THE LIMITS OF THE PERIMETER CONTROLS AND AREAS OUTSIDE THE R/W.

*LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE FOLLOWING STORMWATER POLLUTION PREVENTION PLAN SHEETS.

*LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER SWALES ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE DRAINAGE STRUCTURES SHEETS.

*AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION AND DRAINAGE STRUCTURES SHEETS.

*SURFACE WATERS: THERE IS NO SURFACE WATERS WITHIN THE PROJECT LIMITS.

*DISCHARGE POINTS TO SURFACE WATERS: THERE IS NO SINGLE DISCHARGE POINT.

1.F. RECEIVING WATERS:

ATLANTIC OCEAN

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

REFER TO THE TRAFFIC CONTROL PLAN FOR THE CONSTRUCTION PHASE DESCRIPTION.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

*ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

*TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

*ASPHALT OR CONCRETE SURFACE.

*PERFORMANCE TURF OR SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 5	MONROE	447810-1-52-01		102

TEMPORARY:

*SEDIMENT BARRIERS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

*INLET PROTECTION IN ACCORDANCE WITH SPECIFICATION SECTION 104.

*SEDIMENT CONTAINMENT SYSTEM: PERMANENT STORMWATER SWALES WILL FUNCTION AS TEMPORARY SEDIMENT CONTAINMENT SYSTEMS.

PERMANENT:

*STORMWATER SWALES

*PERFORMANCE TURF OR SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.B STORMWATER MANAGEMENT:

THE PROPOSED STORMWATER MANAGEMENT FACILITIES WILL CONSIST OF SITE GRADING THAT DIRECT RUNOFF TO DRY RETENTION SWALES. EACH SWALE WILL HAVE A SELF-CONTAINED EXFILTRATION TRENCH SYSTEM CONSTRUCTED WITHIN THE RETENTION AREA TO PROVIDE WATER QUALITY TREATMENT. NO DISCHARGE IS PROPOSED.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

*PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

*DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

*DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

*COVERING LOADED HAUL TRUCKS WITH TARPULINS.

*REMOVING EXCESS DIRT FROM ROADS DAILY.

*STABILIZING CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, TO REDUCE OFF-SITE TRACKING.

*USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D. APPROVED FEDERAL, STATE AND LOCAL PERMITS:

- * SFWMD INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT
- * FDEP NPDES PERMIT

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

* STAKED WATTLES: MAINTAIN PER SPECIFICATION SECTION 104.

* SEDIMENT BARRIERS: REMOVE SEDIMENT PER MANUFACTURER'S RECOMMENDATIONS OR WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

*SWALES ARE TEMPORARY SEDIMENT BASINS UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED; UNTIL THEN, REMOVE SEDIMENT FROM THE SWALE WHEN IT BECOMES 1.50 FEET DEEP AT ANY POINT.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

* POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

* STRUCTURAL CONTROLS.

* STORMWATER MANAGEMENT SYSTEMS.

* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLANS, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT STEVEN CRAIG JAMES, RLA, DISTRICT ENVIRONMENTAL MANAGER AT 305-470-5221.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED PERMITS ASSOCIATED WITH DEWATERING SUCH AS THE SFWMD WATER USE PERMIT AND THE FDEP GENERIC PERMIT FOR DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY, 62-621.300 (2).

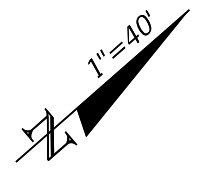
WHEN USING DEWATERING PUMPS AVOID DIRECT DISCHARGE INTO SURFACE WATERS, INCLUDING DIRECT DISCHARGE INTO INLETS. DISCHARGE WATER SHOULD BE ALLOWED TO PERCOLATE INTO THE GROUND OR COLLECTED FOR TREATMENT WITH POLYACRYLAMIDES, IF NECESSARY, PRIOR TO DISCHARGE.

CONTRACTOR SHALL DESIGNATE AN AREA WITHIN THE PROJECT LIMITS FOR CONCRETE TRUCK WASHOUT ACTIVITIES. THIS AREA SHALL PROVIDE EROSION CONTROL DEVICES THAT PREVENT CONTACT BETWEEN CONCRETE WASHOUT MATERIALS AND SURFACE WATERS.

4/21/2023 9:24:51 AM Barahona c:\pw_work\vrsh_pw\pw_user\0442396\SWPPP\RD0001.dgn

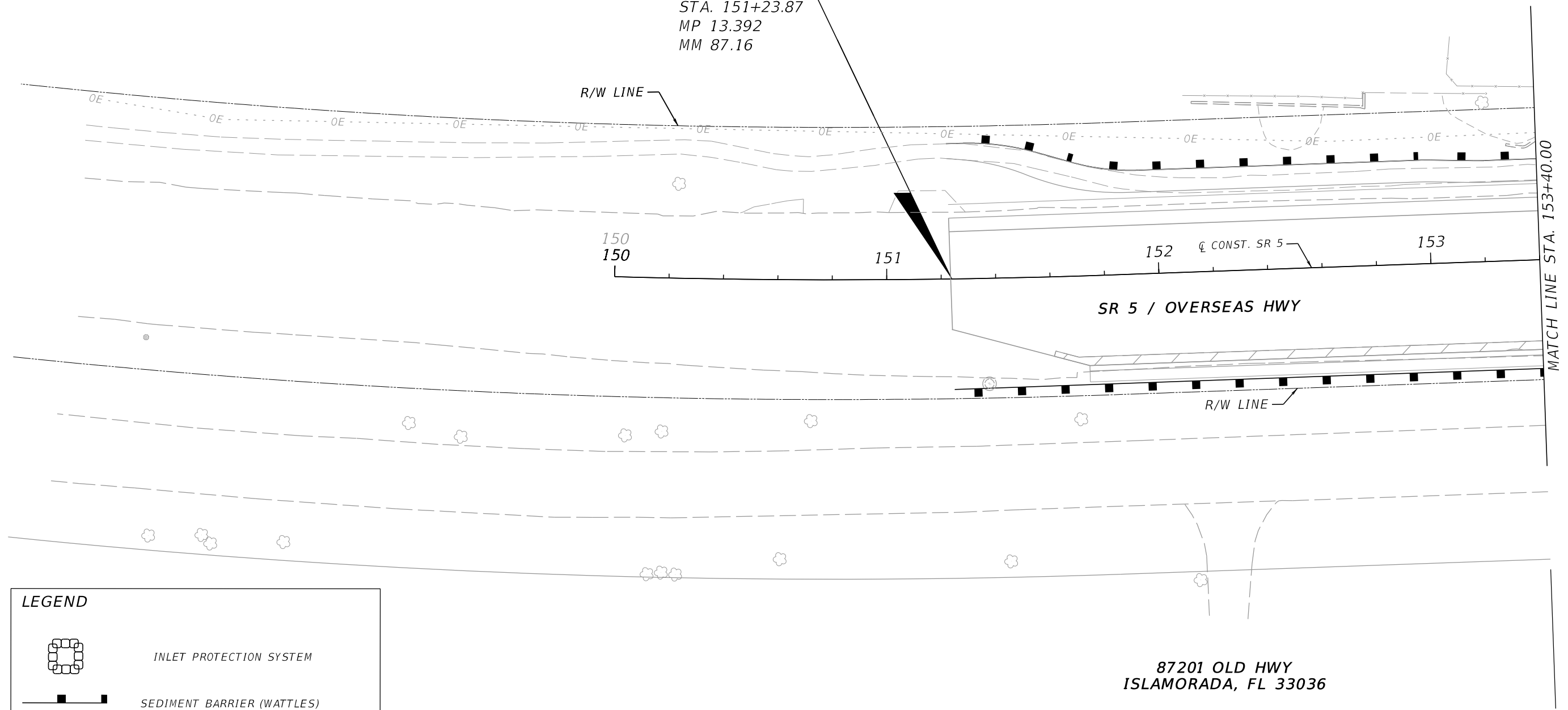
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		103
						SR 5	MONROE	447810-1-52-01		



**PLANTATION
HAMMOCK PRESERVE**

BEGIN PROJECT
STA. 151+23.87
MP 13.392
MM 87.16



LEGEND

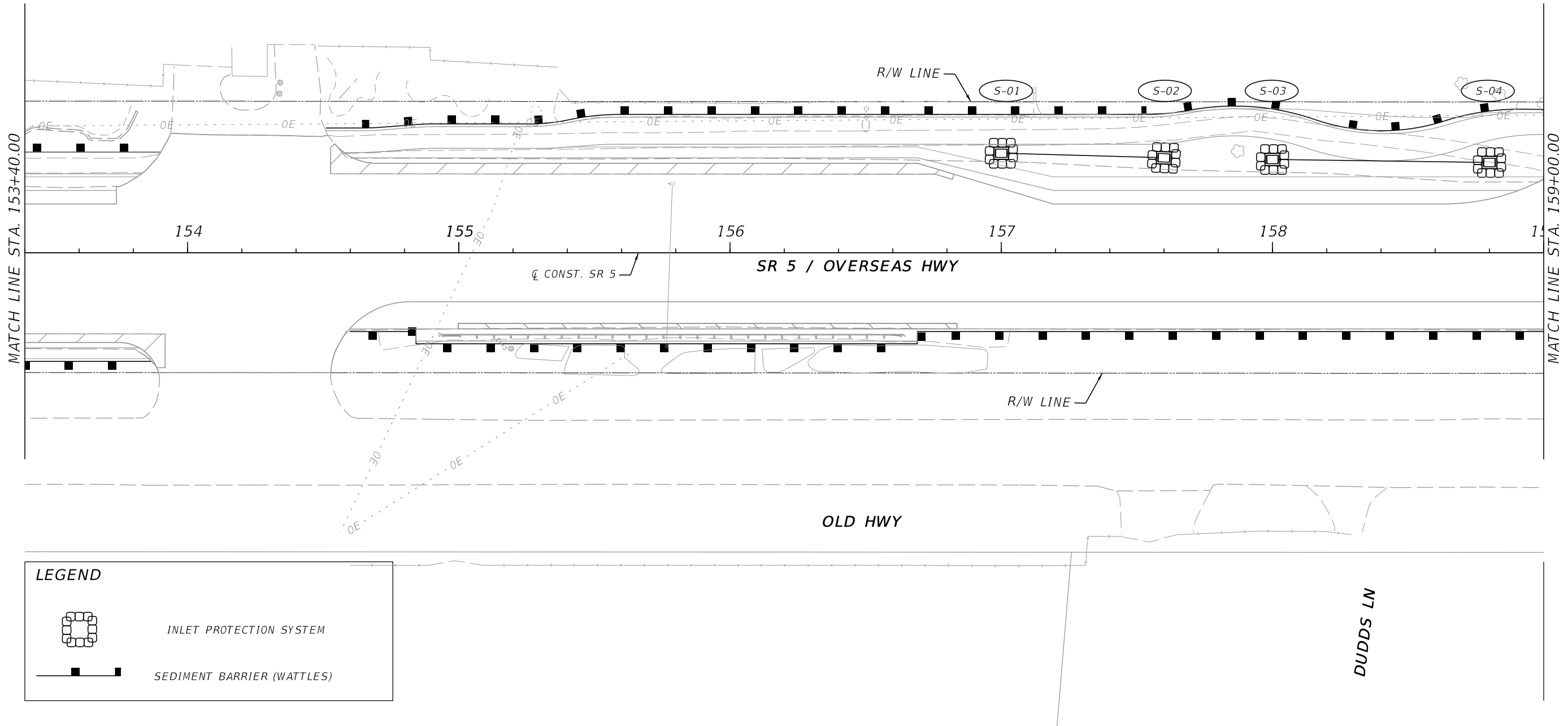
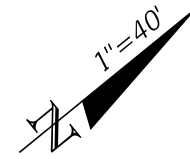
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
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	104		
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE			447810-1-52-01


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87200 OVERSEAS HWY
ISLAMORADA, FL 33036



LEGEND

 INLET PROTECTION SYSTEM

 SEDIMENT BARRIER (WATTLES)

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REVISIONS			
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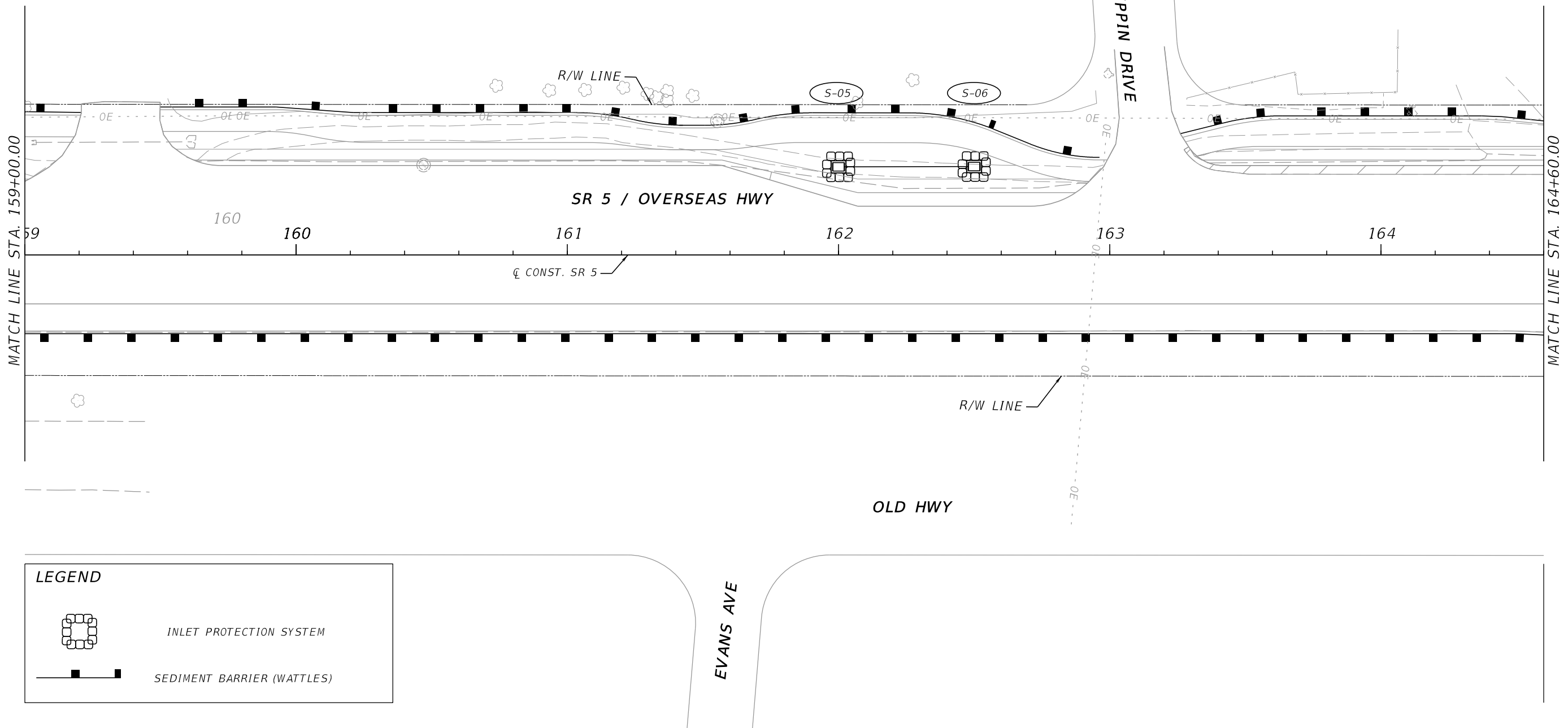
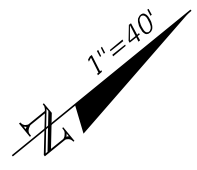
ENGINEER OF RECORD
 PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

**STORMWATER POLLUTION
PREVENTION PLAN (SWPPP)**

**SHEET
NO.**
105

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LEGEND

	INLET PROTECTION SYSTEM
	SEDIMENT BARRIER (WATTLES)

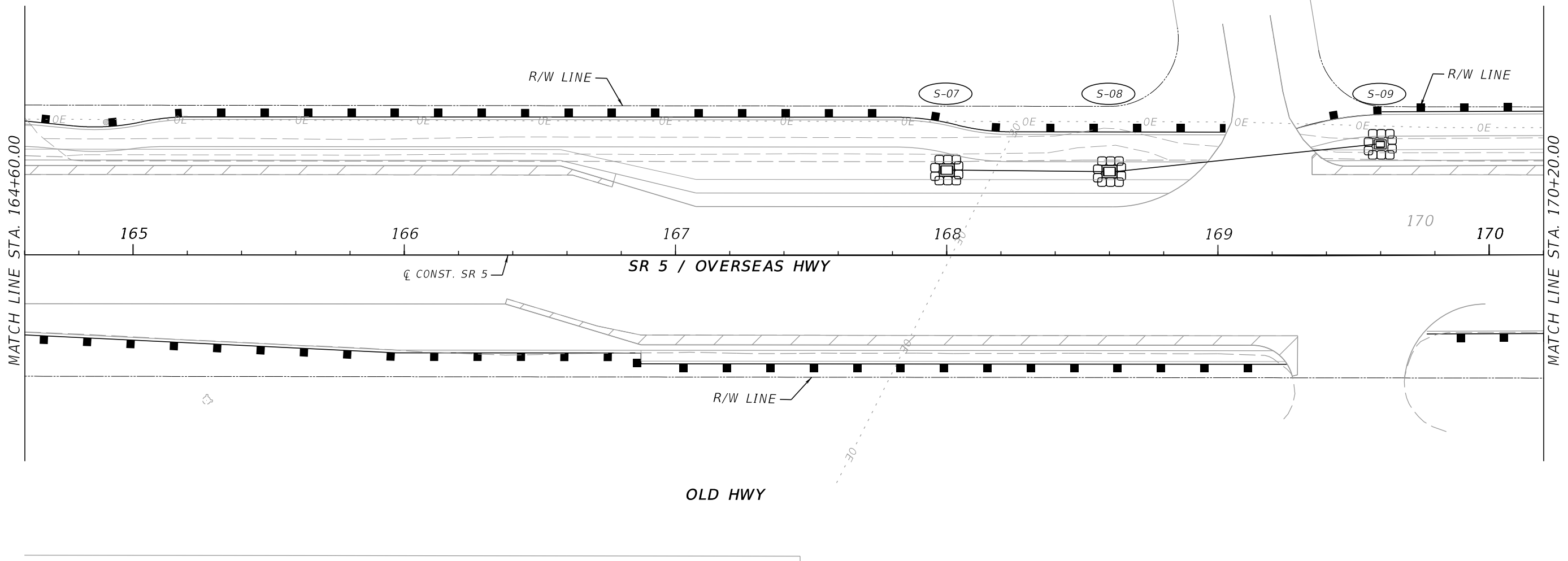
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		106
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
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1"=40'

ROYAL LANE



LEGEND

 INLET PROTECTION SYSTEM

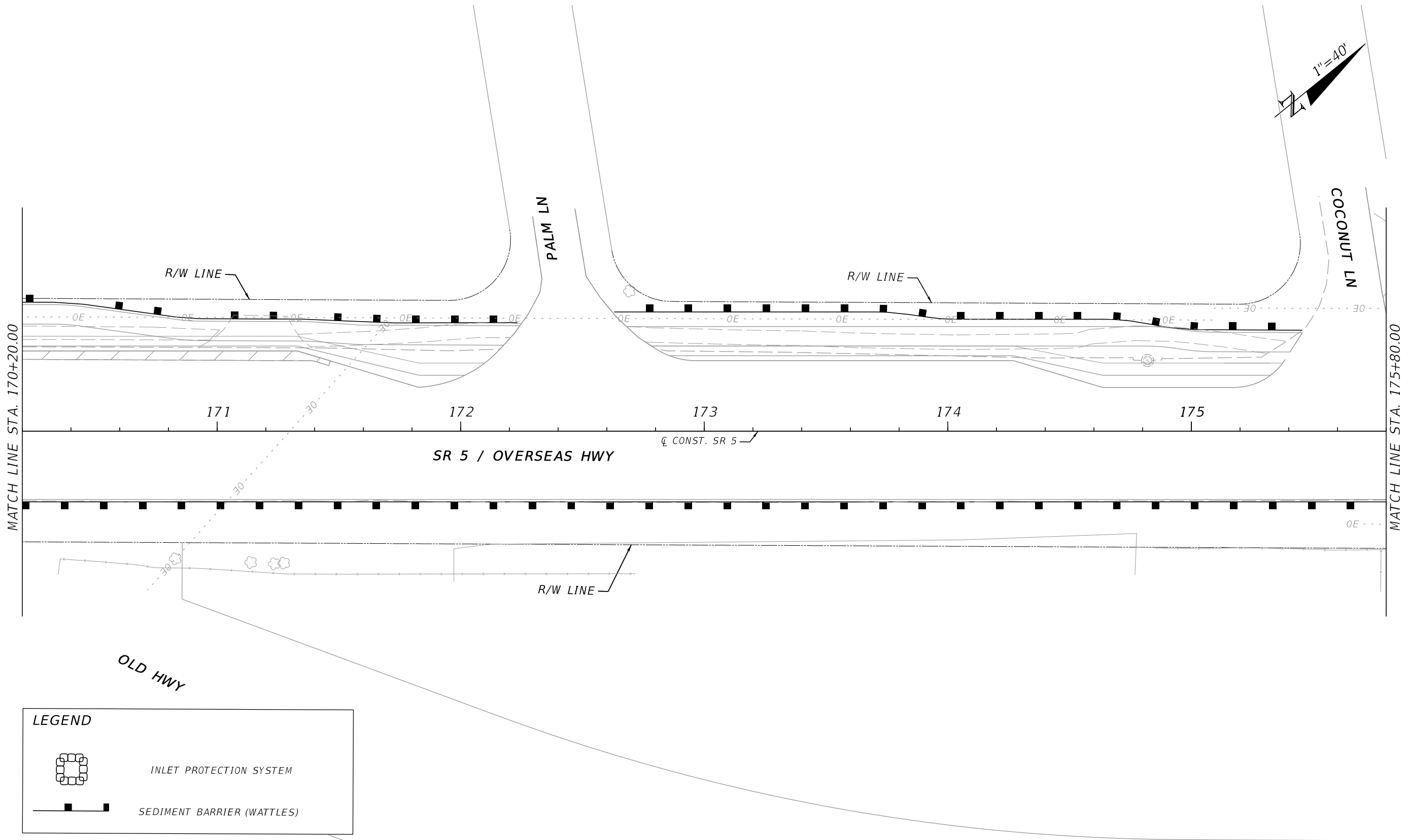
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

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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		107
						SR 5	MONROE	447810-1-52-01		

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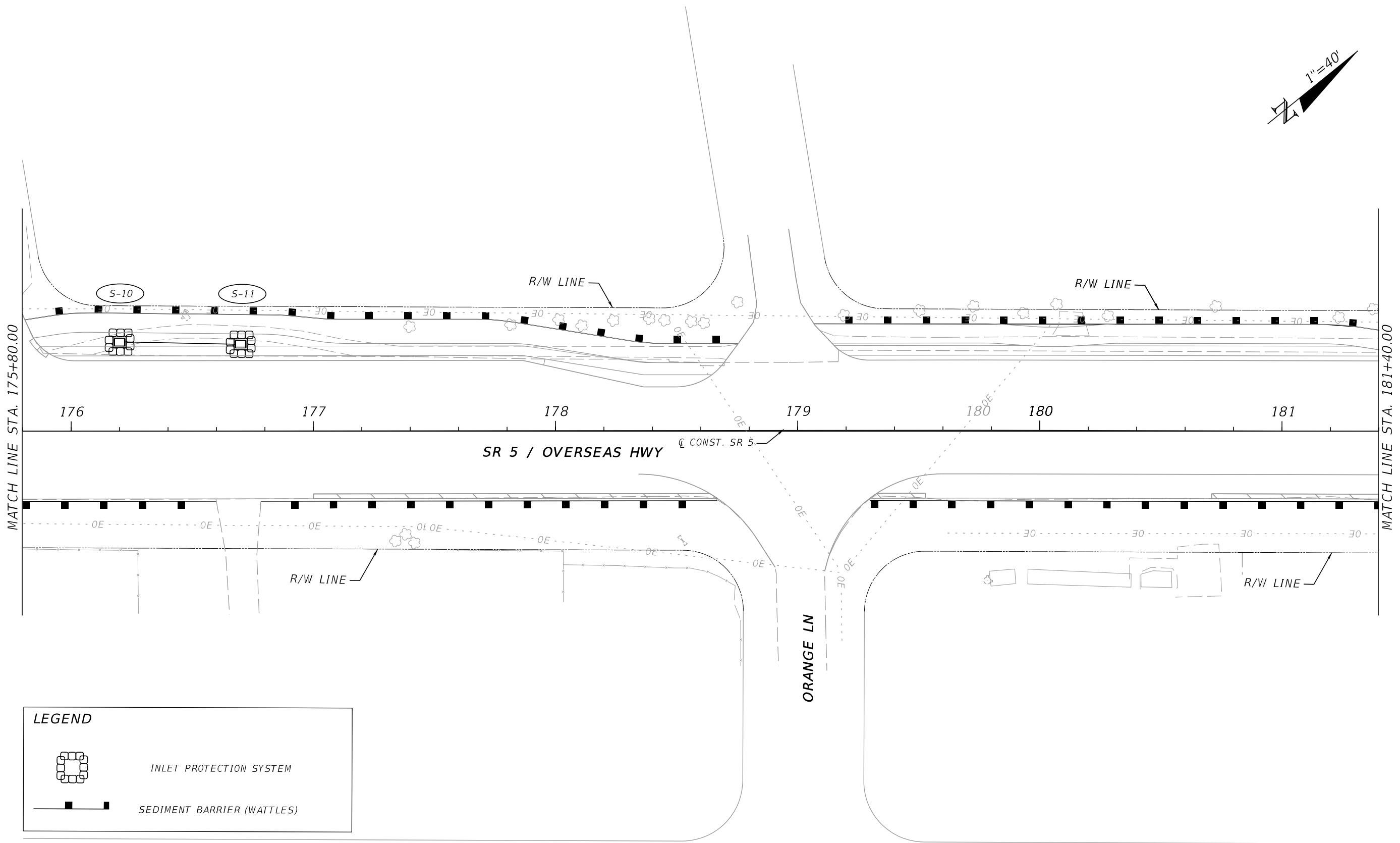
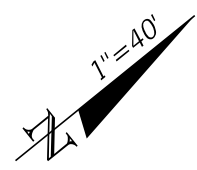


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	INLET PROTECTION SYSTEM
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126			SR 5	MONROE		447810-1-52-01

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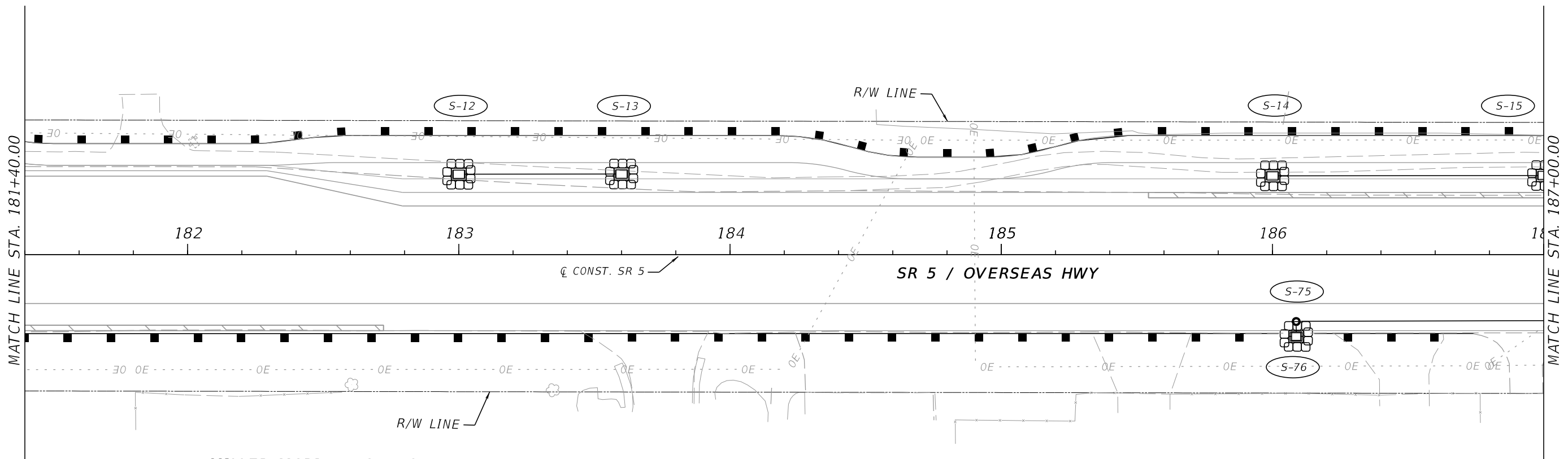
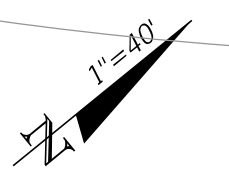


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	SEDIMENT BARRIER (WATTLES)

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
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DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE	447810-1-52-01		


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MILLER MARINE BOAT CENTER
 87861 OVERSEAS HWY,
 ISLAMORADA, FL 33036

LEGEND

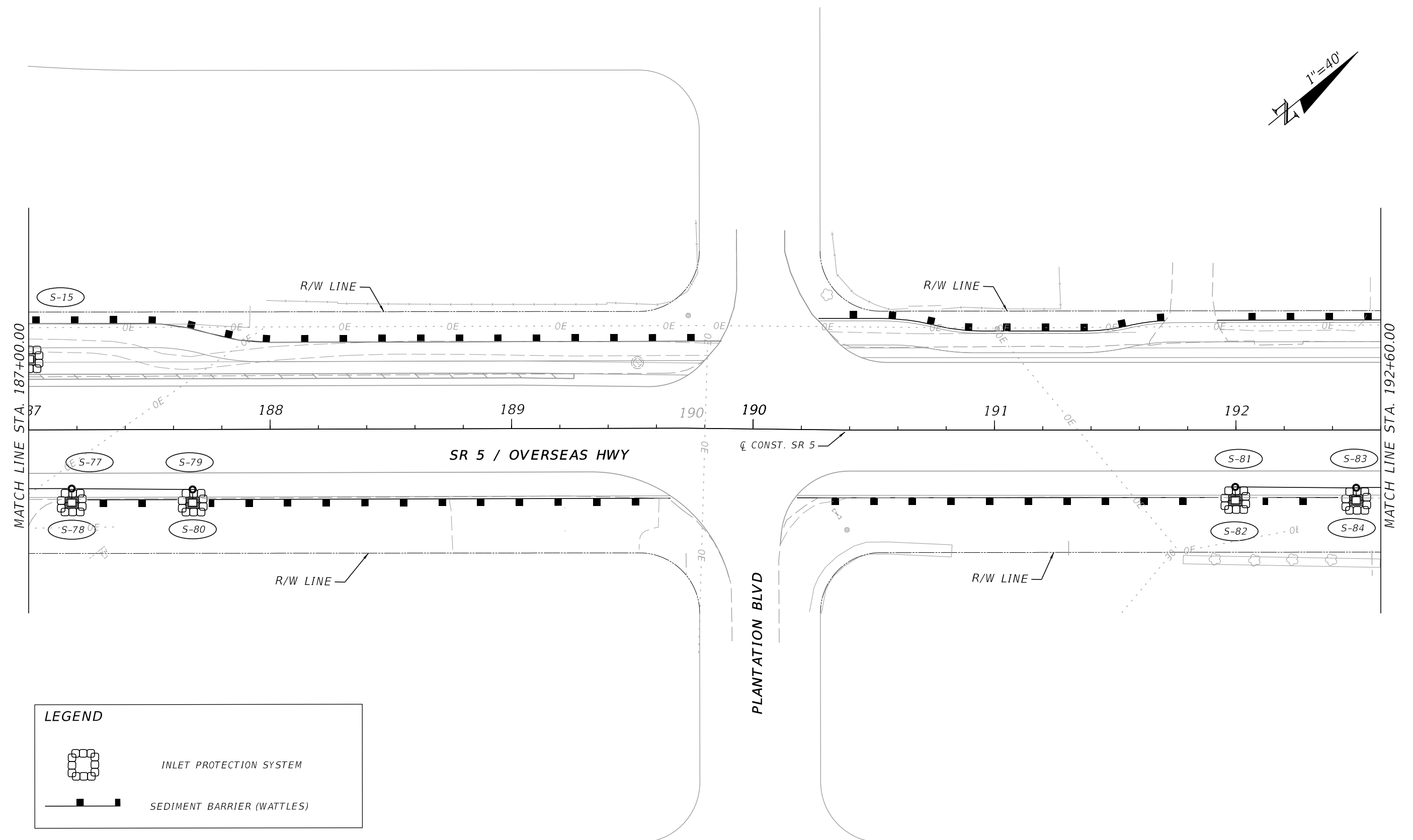
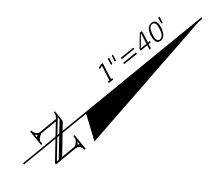
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		110
				SR 5	MONROE	447810-1-52-01				

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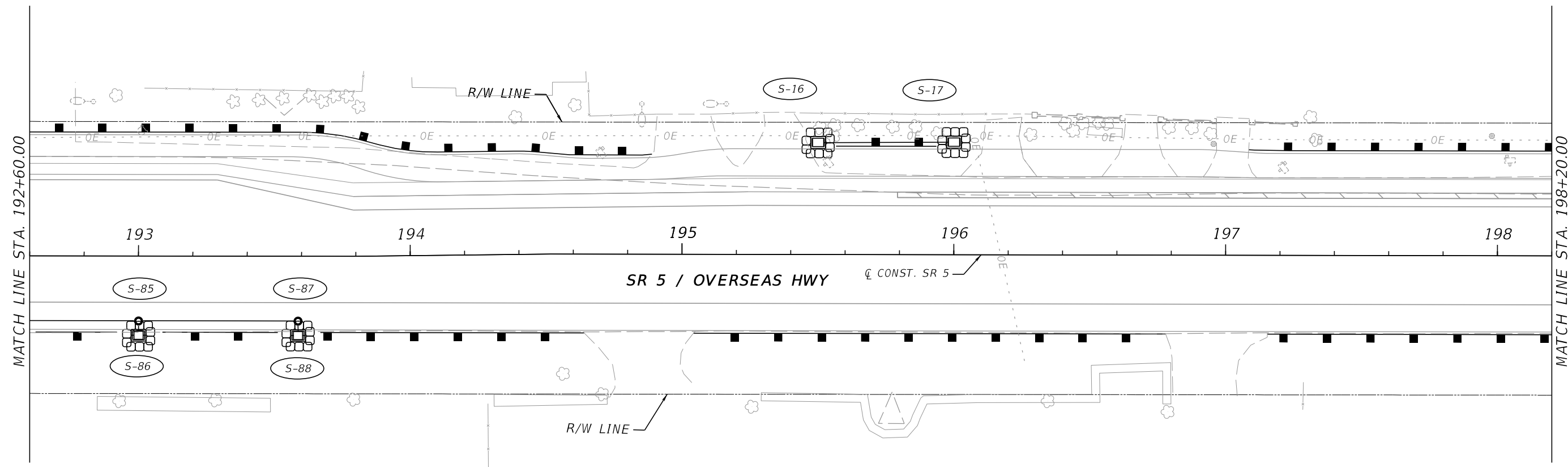
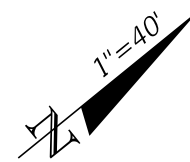


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
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE	447810-1-52-01	
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)									111

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LEGEND

 INLET PROTECTION SYSTEM

 SEDIMENT BARRIER (WATTLES)

FEDEX
88005 OVERSEAS HWY
ISLAMORADA, FL 33036

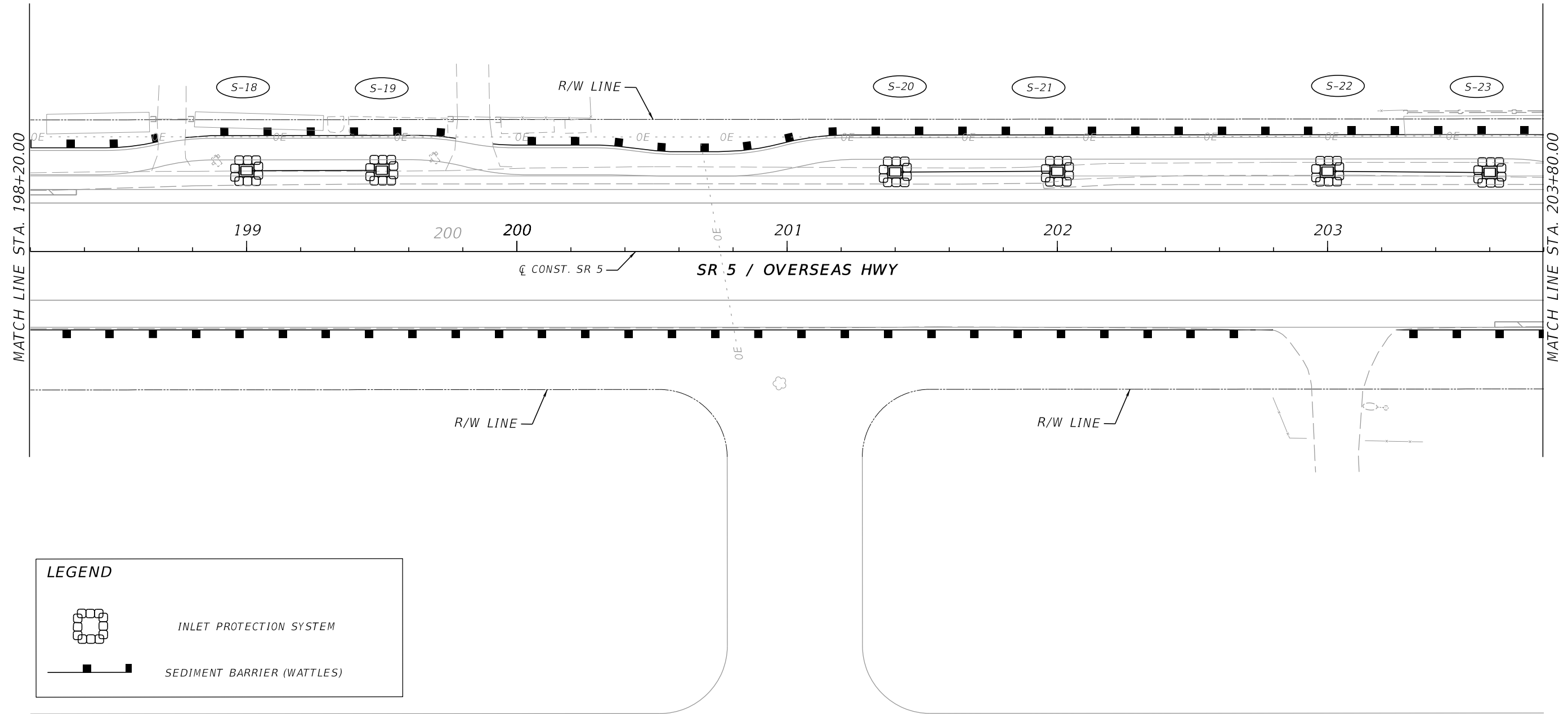
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		112
						SR 5	MONROE	447810-1-52-01		

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88170 OVERSEAS HWY
ISLAMORADA, FL 33036

1"=40'



LEGEND

	INLET PROTECTION SYSTEM
	SEDIMENT BARRIER (WATTLES)

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
 PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

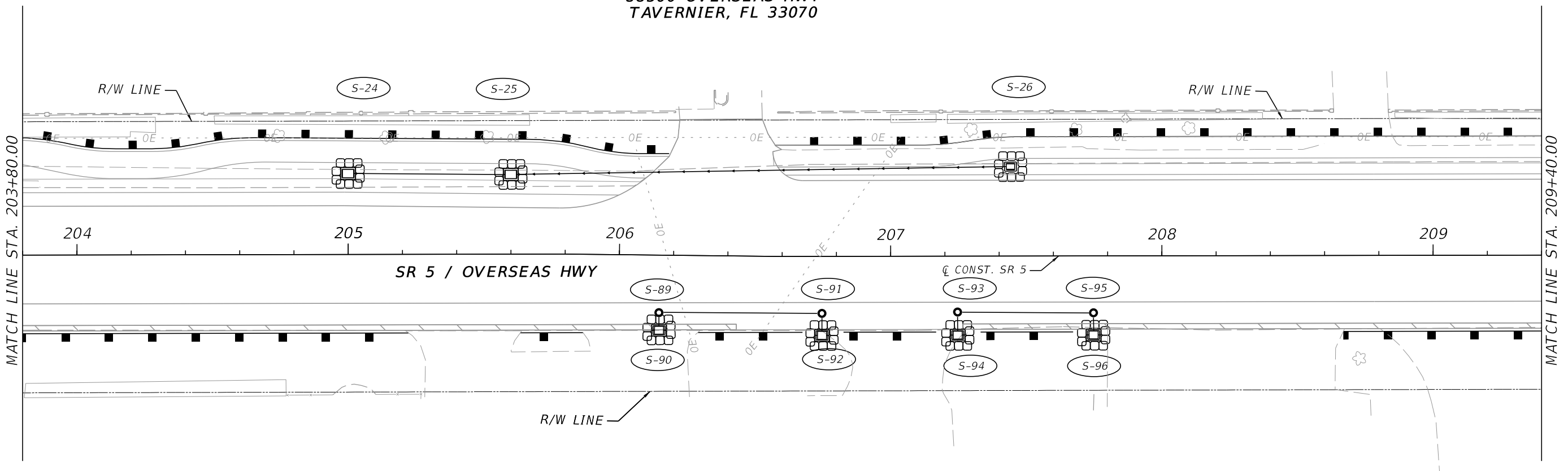
**STORMWATER POLLUTION
PREVENTION PLAN (SWPPP)**

SHEET NO.
113

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.


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SUMMER SEA CONDOMINIUM
88500 OVERSEAS HWY
TAVERNIER, FL 33070



HARDWARE STORE
88509 OVERSEAS HWY
TAVERNIER, FL 33070

LEGEND

 INLET PROTECTION SYSTEM

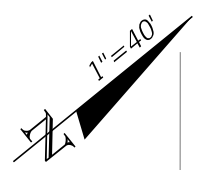
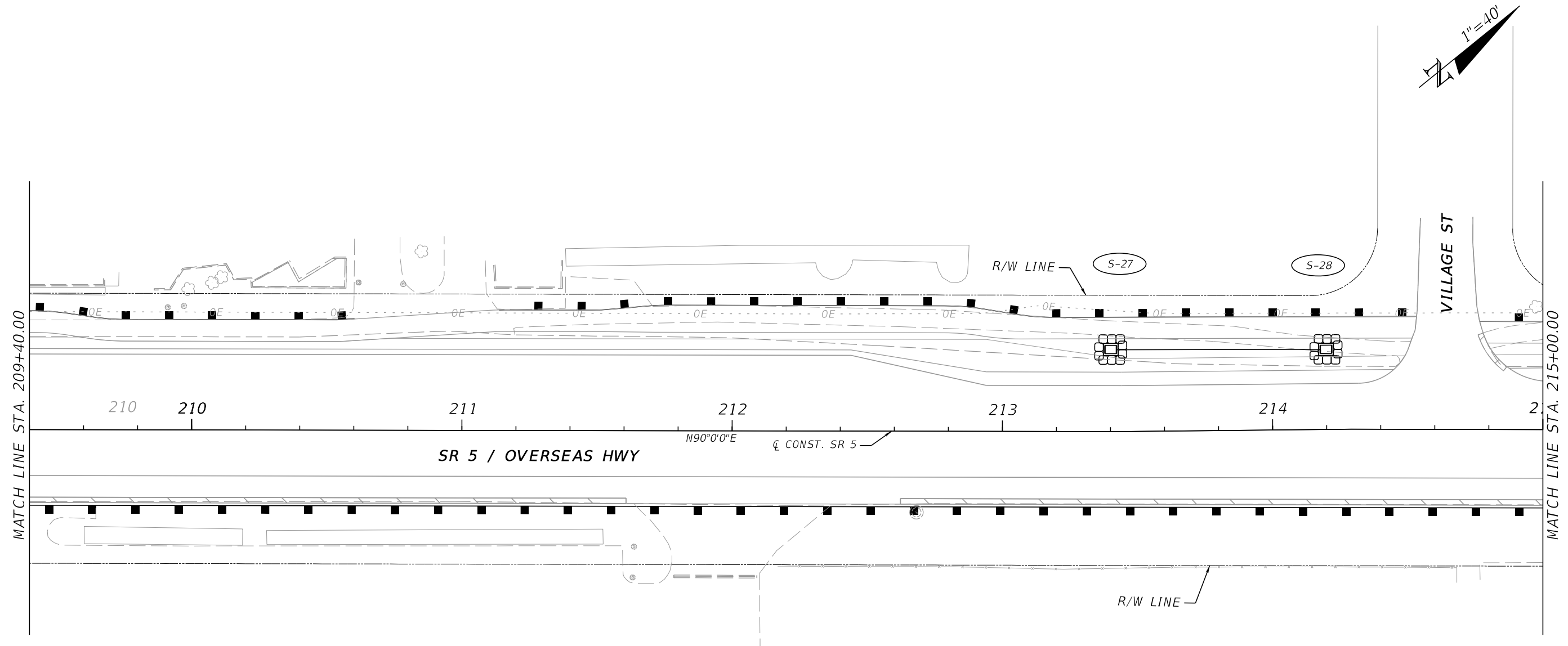
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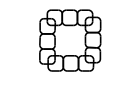
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)								114	


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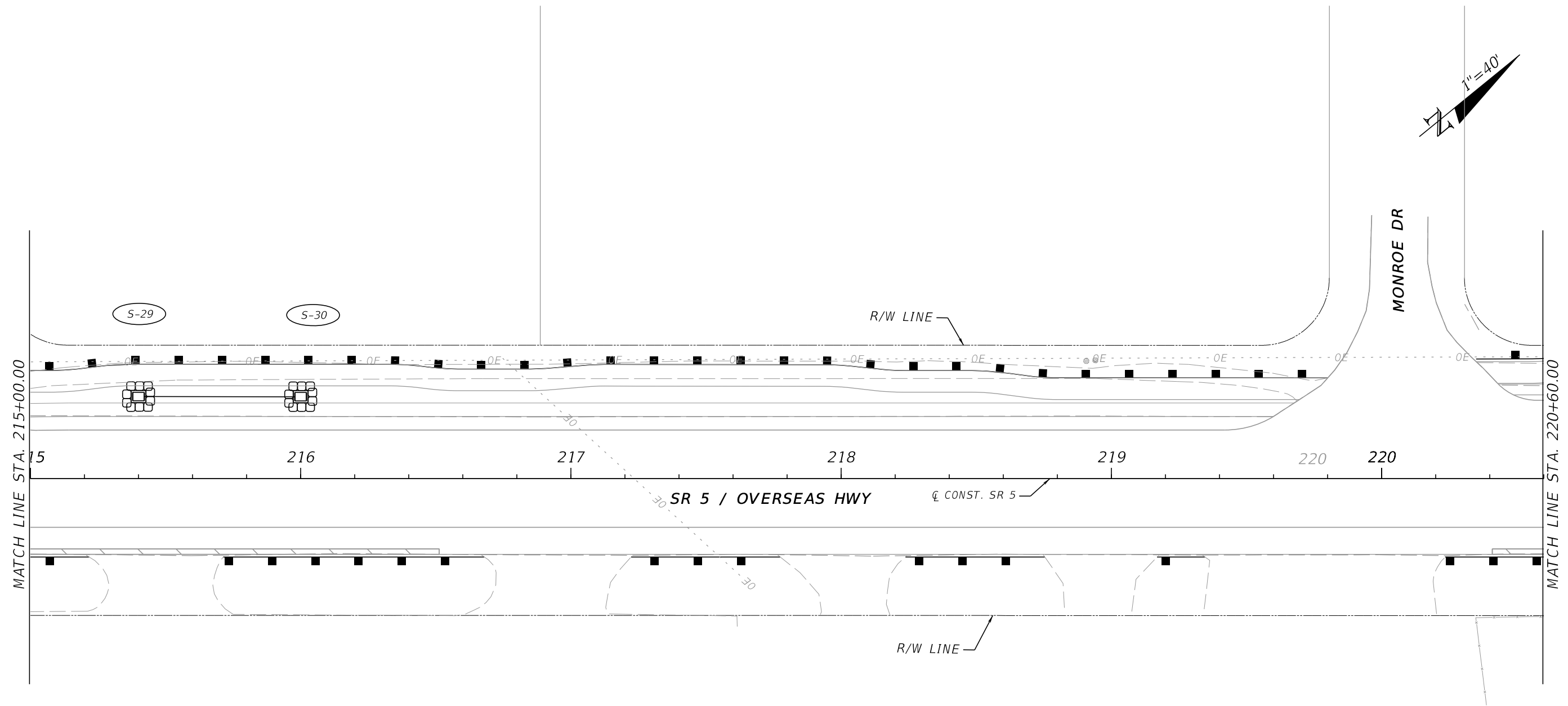
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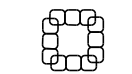
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DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	115		
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LEGEND

 INLET PROTECTION SYSTEM

 SEDIMENT BARRIER (WATTLES)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
 PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

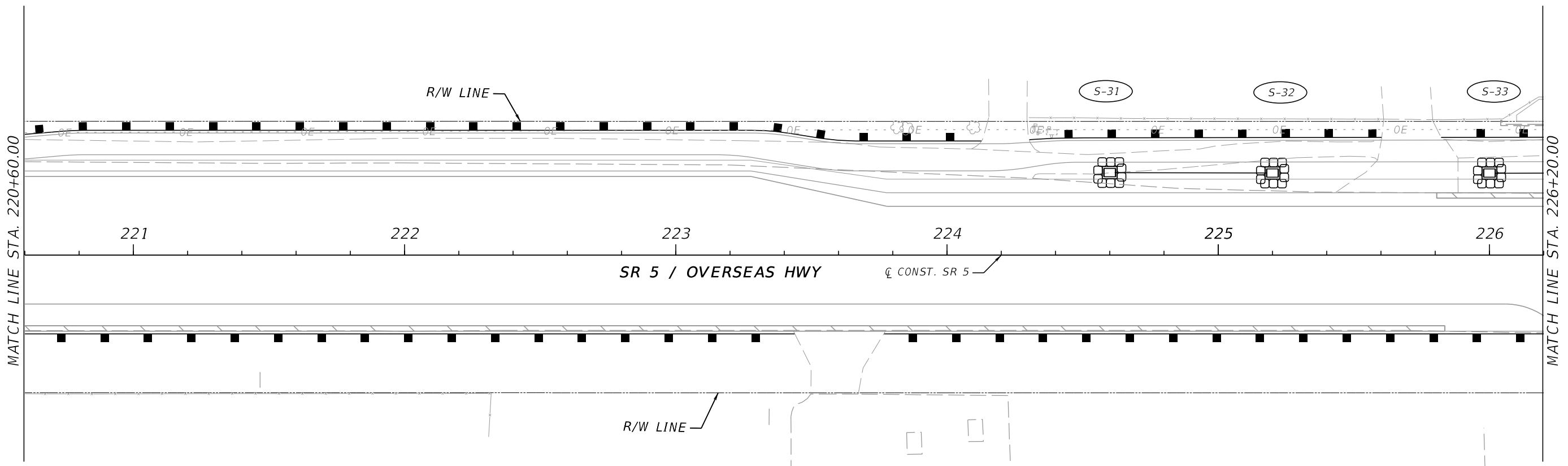
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

**STORMWATER POLLUTION
 PREVENTION PLAN (SWPPP)**

**SHEET
 NO.**
 116

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1"=40'



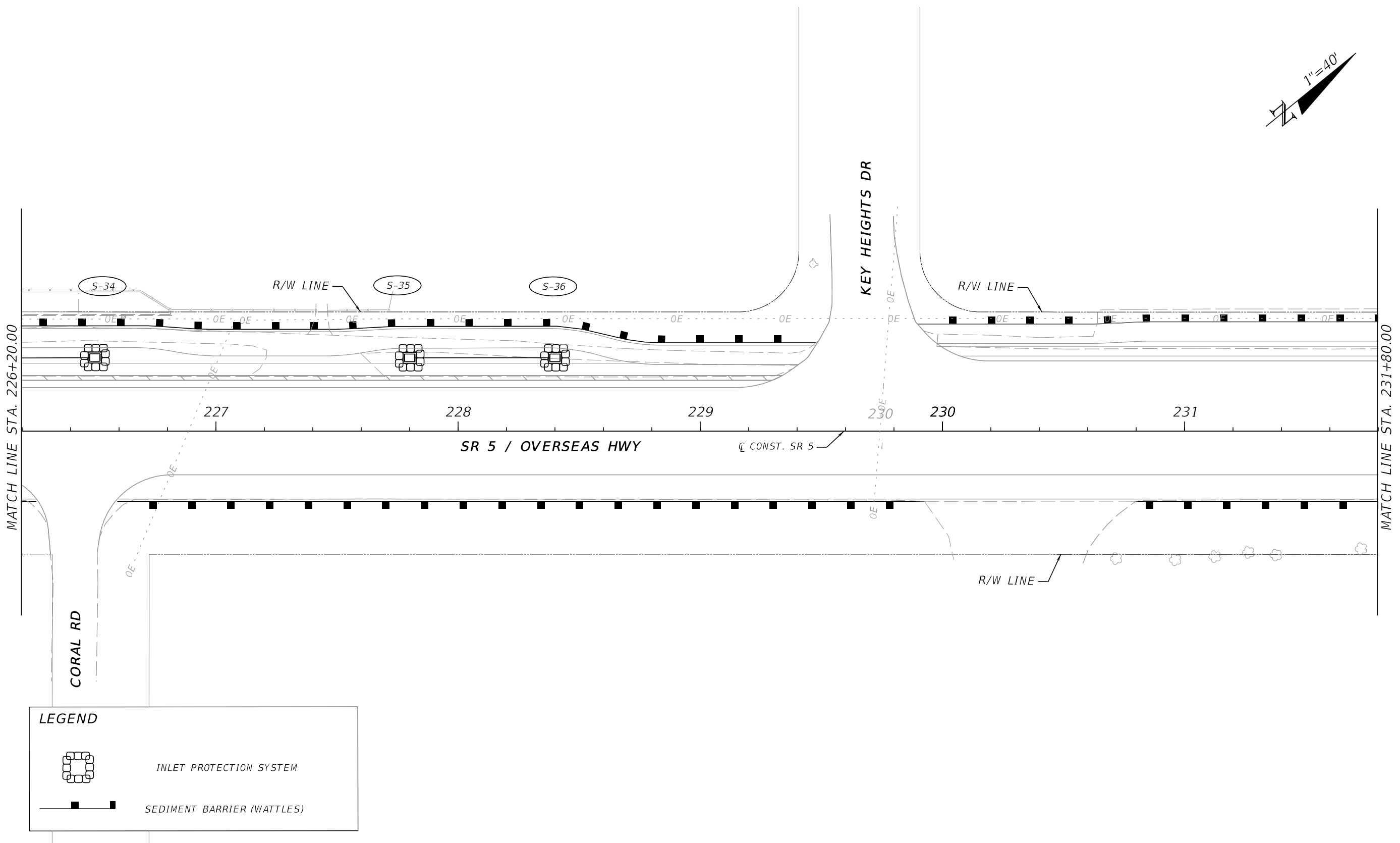
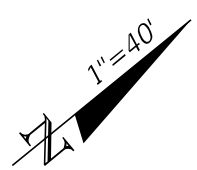
CORNERSTONE CONSTRUCTION
 88701 OVERSEAS HWY
 TAVERNIER, FL 33070

LEGEND	
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	SEDIMENT BARRIER (WATTLES)

4/21/2023 9:25:09 AM Barahona c:\pw\work\vrsh_pw\pw_user\0442396\SWPPRD01.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO. 117
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 5	MONROE	447810-1-52-01				

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LEGEND

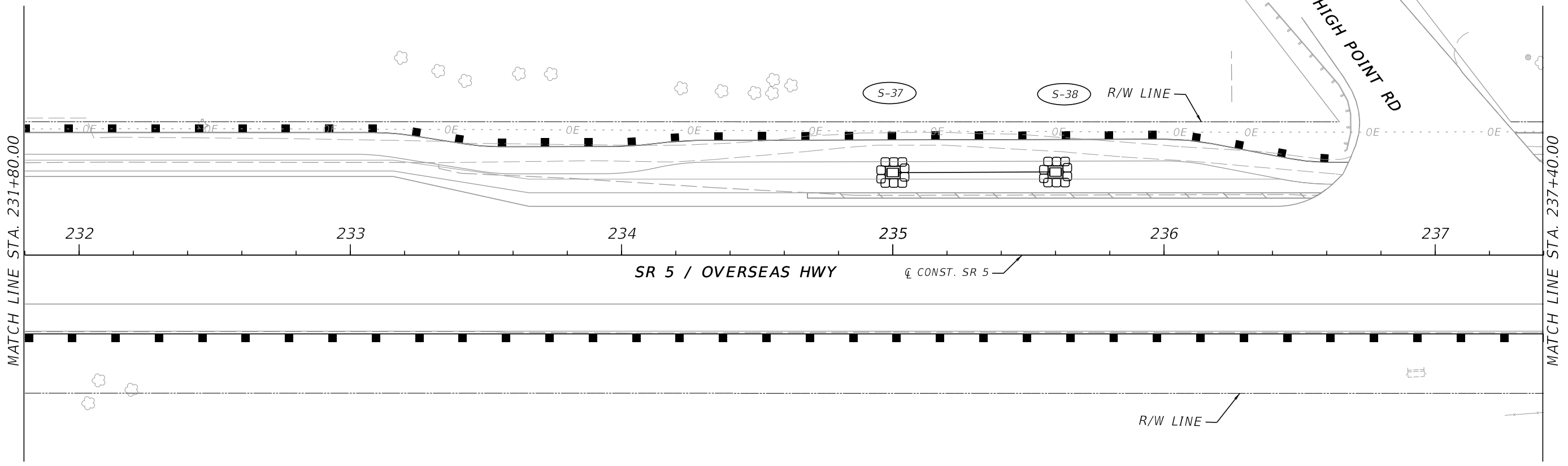
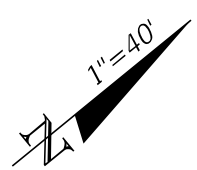
INLET PROTECTION SYSTEM

SEDIMENT BARRIER (WATTLES)

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE	447810-1-52-01		118

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

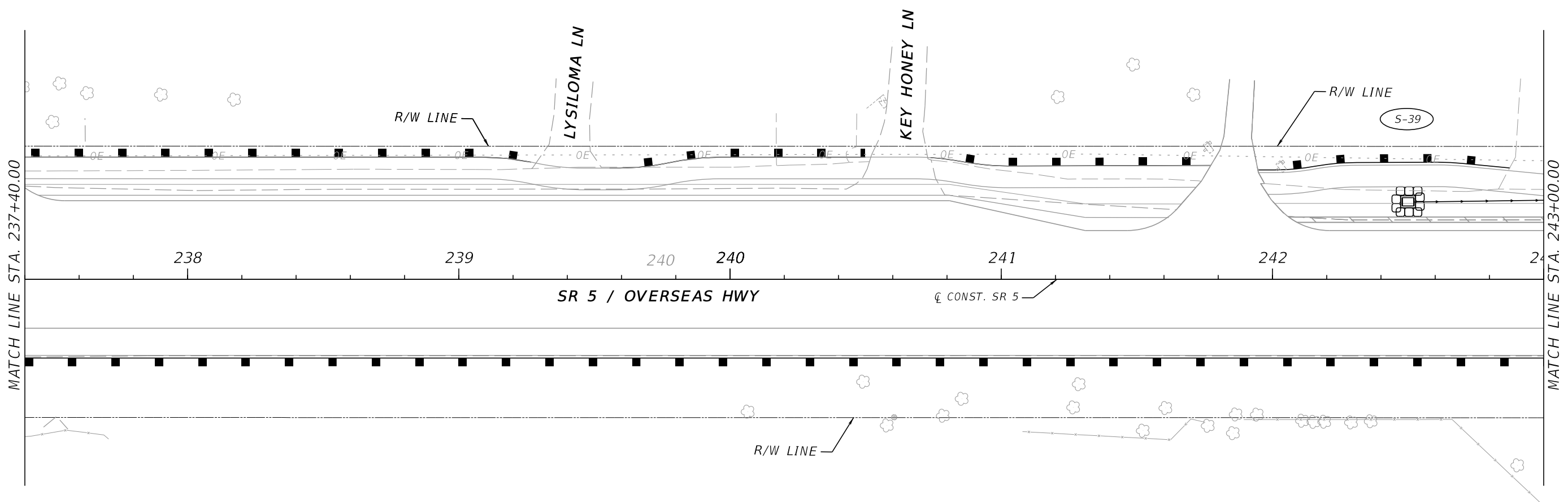
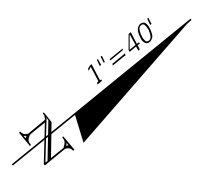


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	SEDIMENT BARRIER (WATTLES)

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		119
						SR 5	MONROE	447810-1-52-01		

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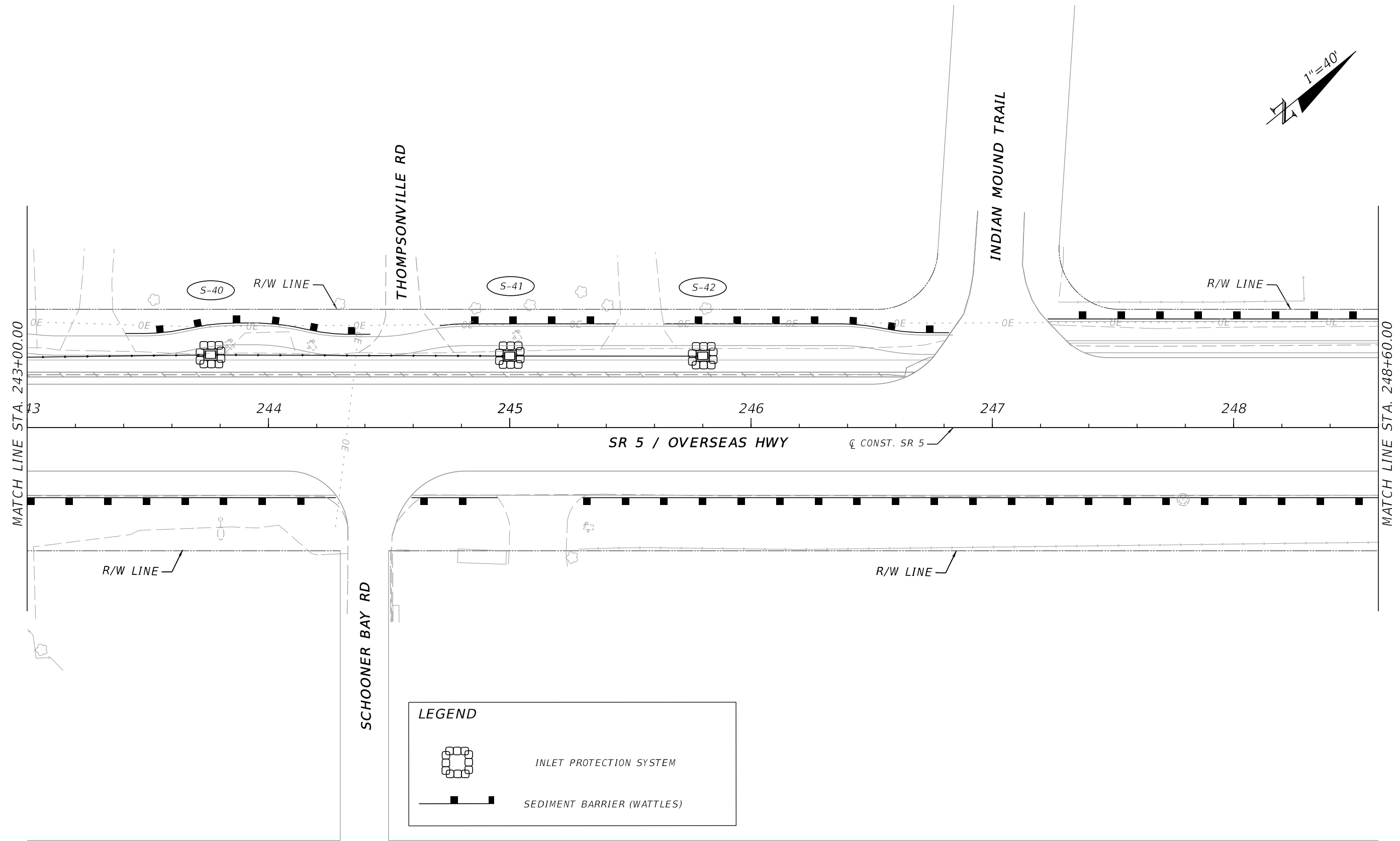
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	SEDIMENT BARRIER (WATTLES)

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
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		120
						SR 5	MONROE	447810-1-52-01		


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LEGEND

 INLET PROTECTION SYSTEM

 SEDIMENT BARRIER (WATTLES)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
 PEDRO M. PELEGRIN, P.E.
 LICENSE NUMBER: 76951
 RS&H, INC.
 6303 BLUE LAGOON DRIVE, SUITE 325
 MIAMI, FL 33126

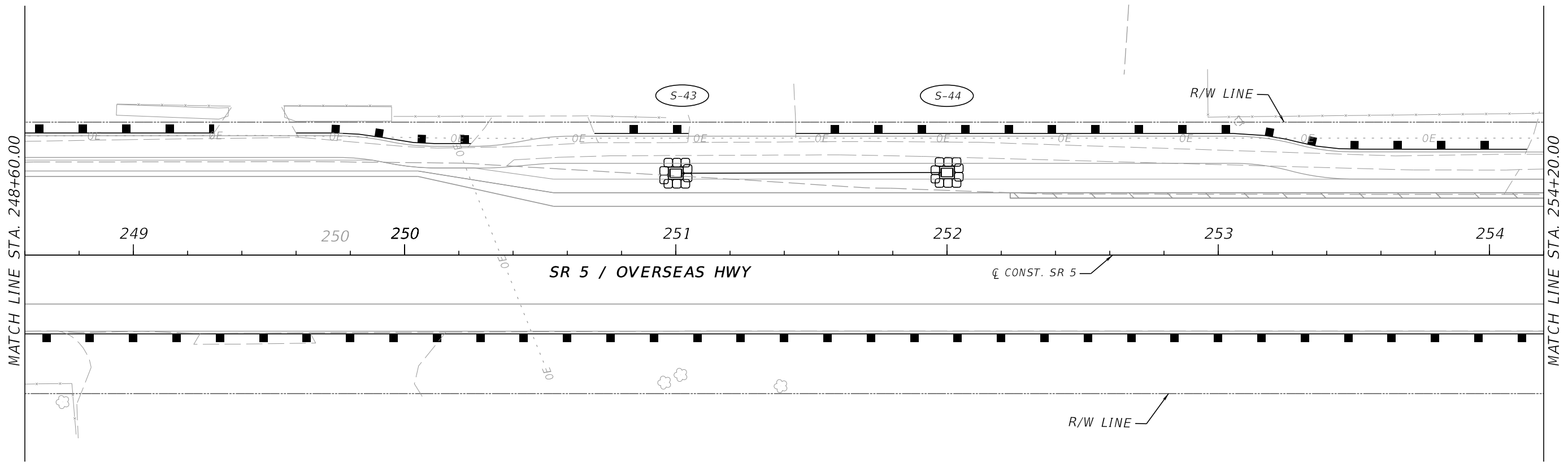
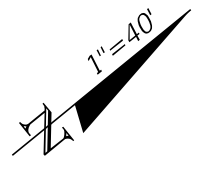
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

**STORMWATER POLLUTION
PREVENTION PLAN (SWPPP)**

**SHEET
NO.**
121

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SOUTHEAST MOBILE CRANE SERVICE, INC
 89070 OVERSEAS HWY,
 TAVERNIER, FL 33070



ISLAMORADA DRY CLEANERS
 89015 OVERSEAS HWY,
 TAVERNIER, FL 33070

LEGEND

 INLET PROTECTION SYSTEM

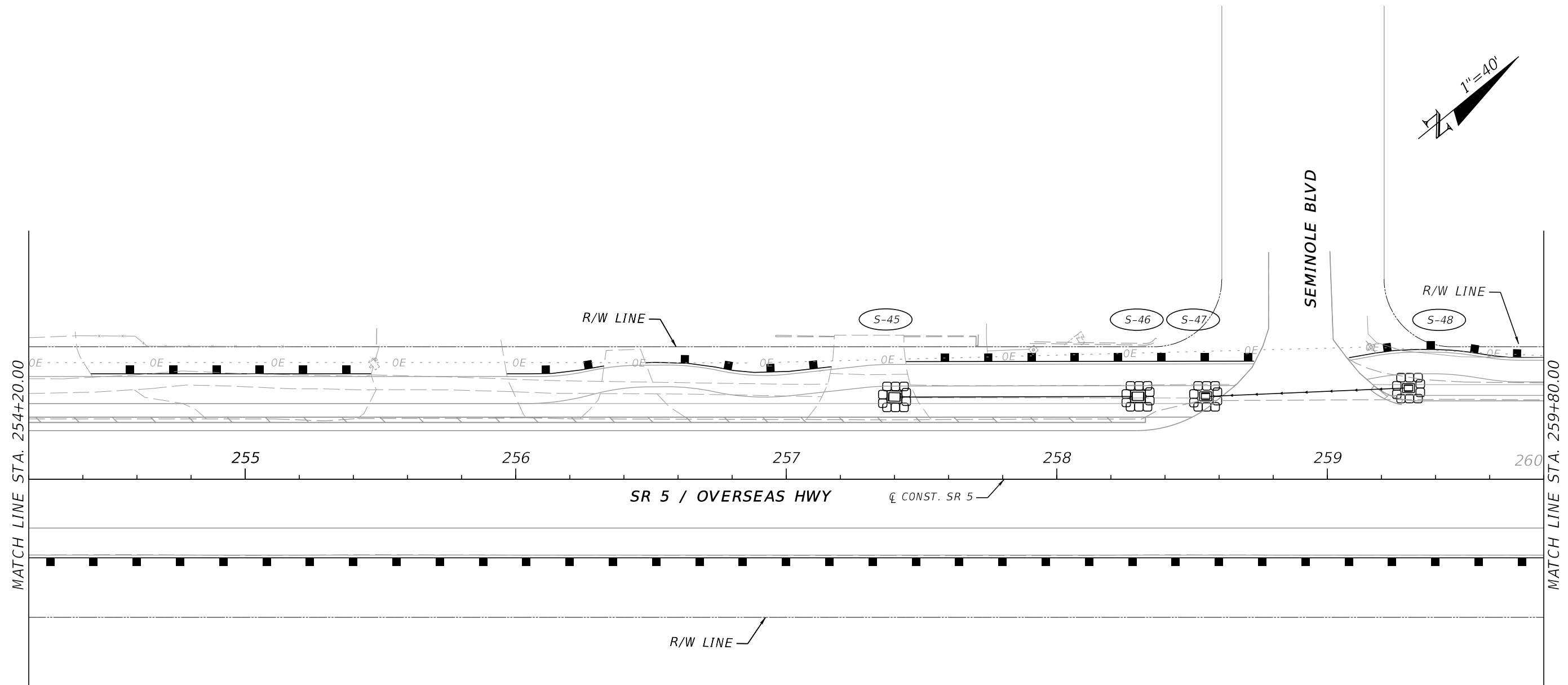
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 5	MONROE	447810-1-52-01	
STORMWATER POLLUTION PREVENTION PLAN (SWPPP)									122

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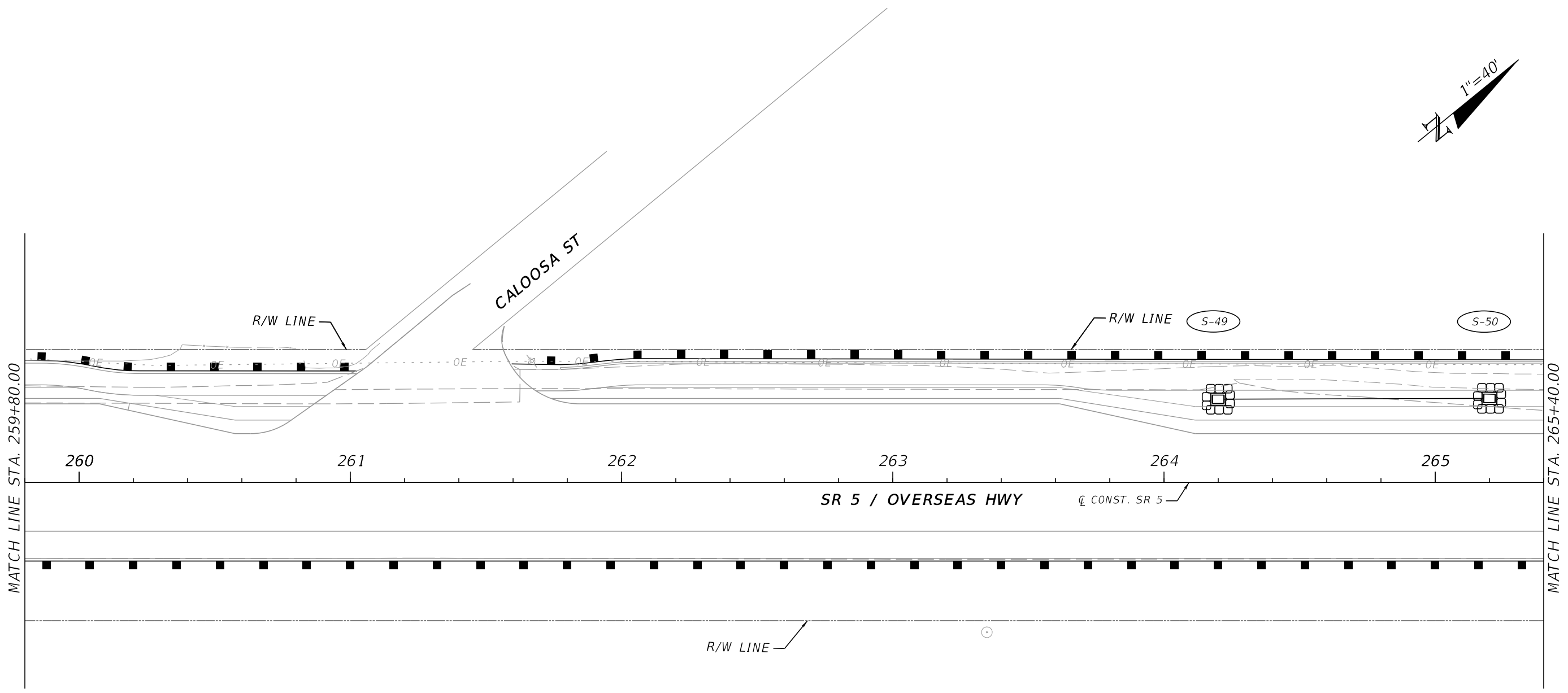
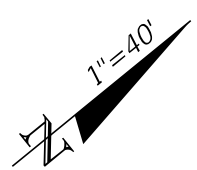


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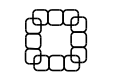
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	SEDIMENT BARRIER (WATTLES)


REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	123		
				SR 5		MONROE	447810-1-52-01			
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126						

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LEGEND

 INLET PROTECTION SYSTEM

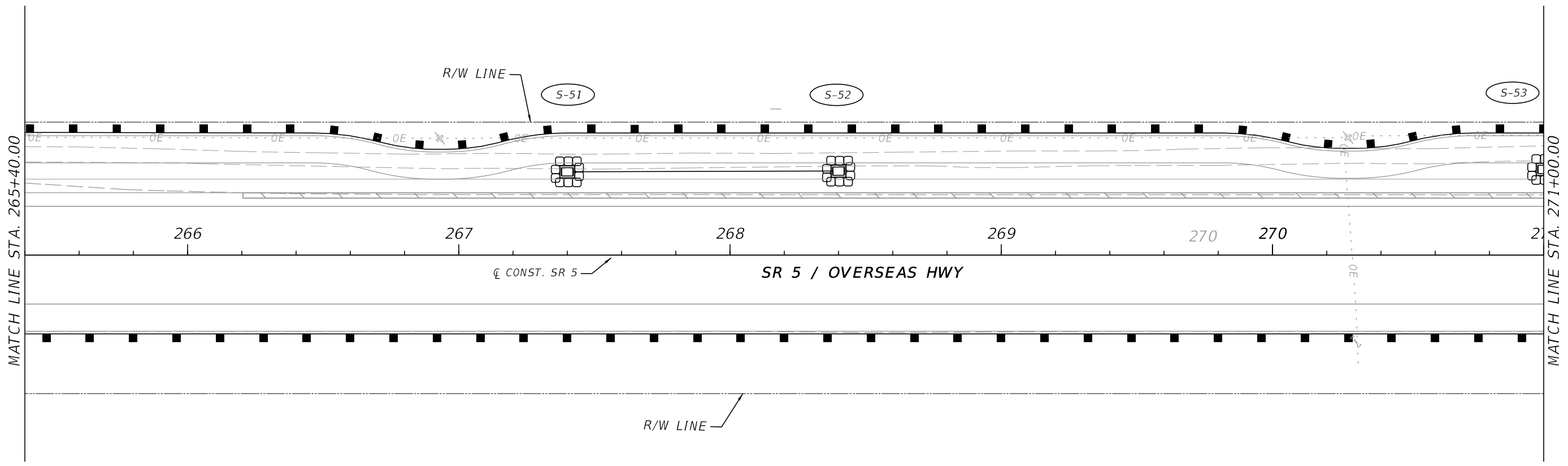
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
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		124
						SR 5	MONROE	447810-1-52-01		


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1"=40'



LEGEND

 INLET PROTECTION SYSTEM

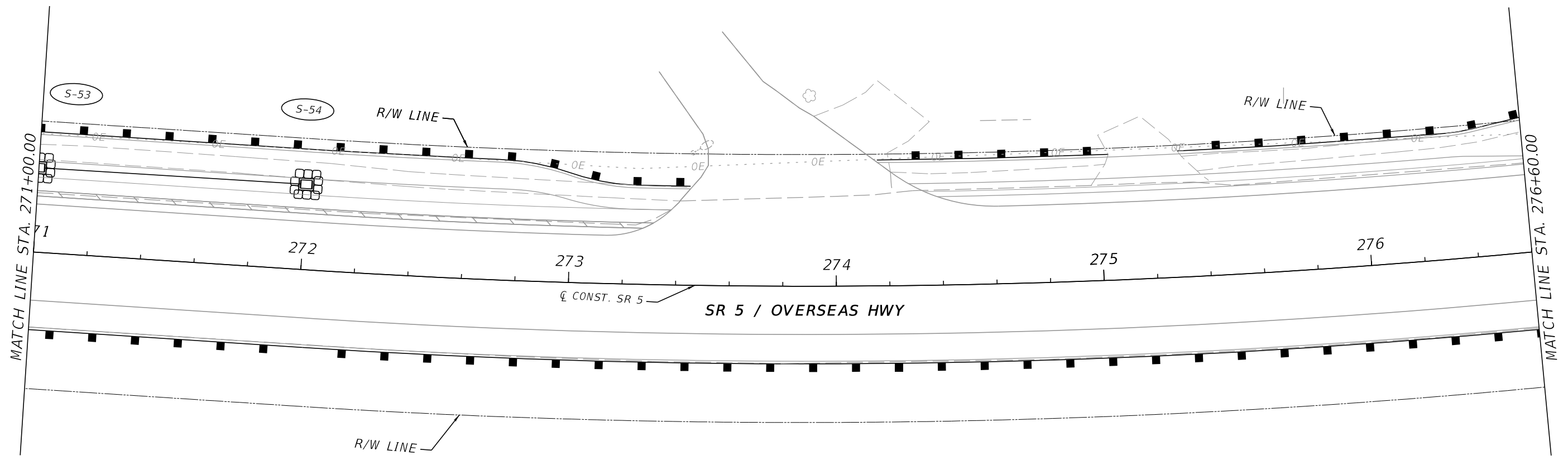
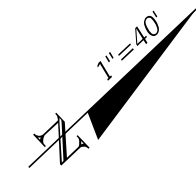
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		125
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SAN PEDRO CATHOLIC CHURCH
 89500 OVERSEAS HWY
 TAVERNIER, FL 33070



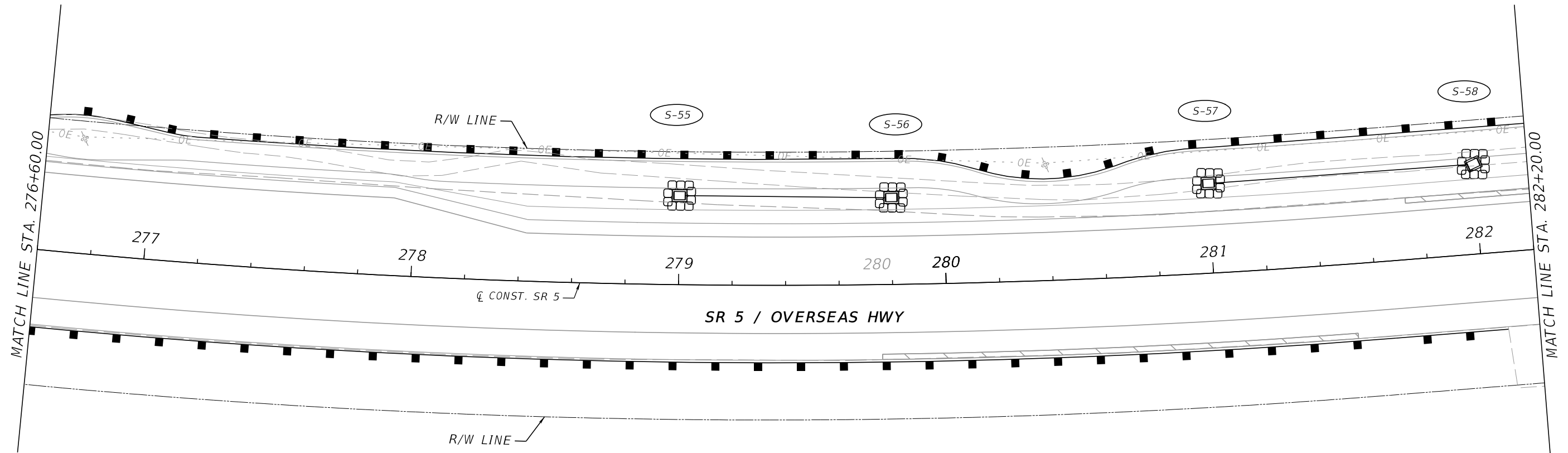
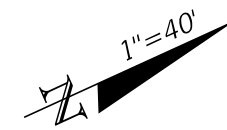
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
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 5	MONROE	447810-1-52-01		126


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SAN PEDRO CATHOLIC CHURCH
8950 OVERSEAS HWY
TAVERNIER, FL 33070



LEGEND

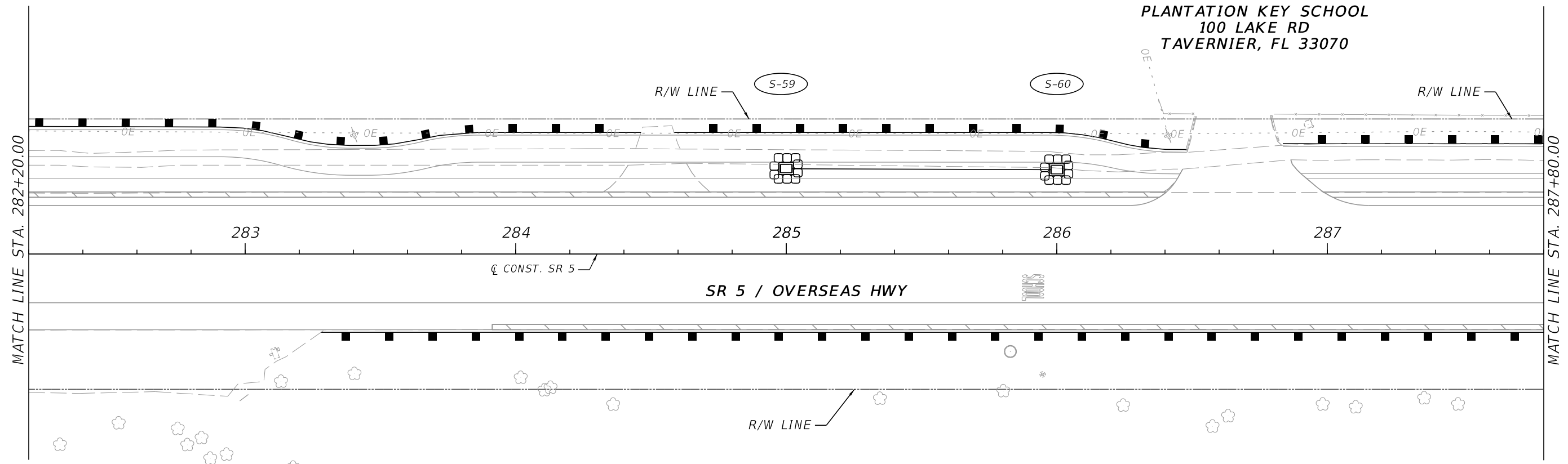
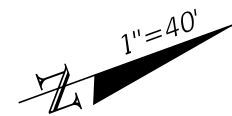
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		127
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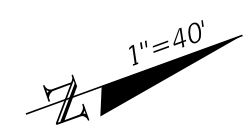
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	SEDIMENT BARRIER (WATTLES)

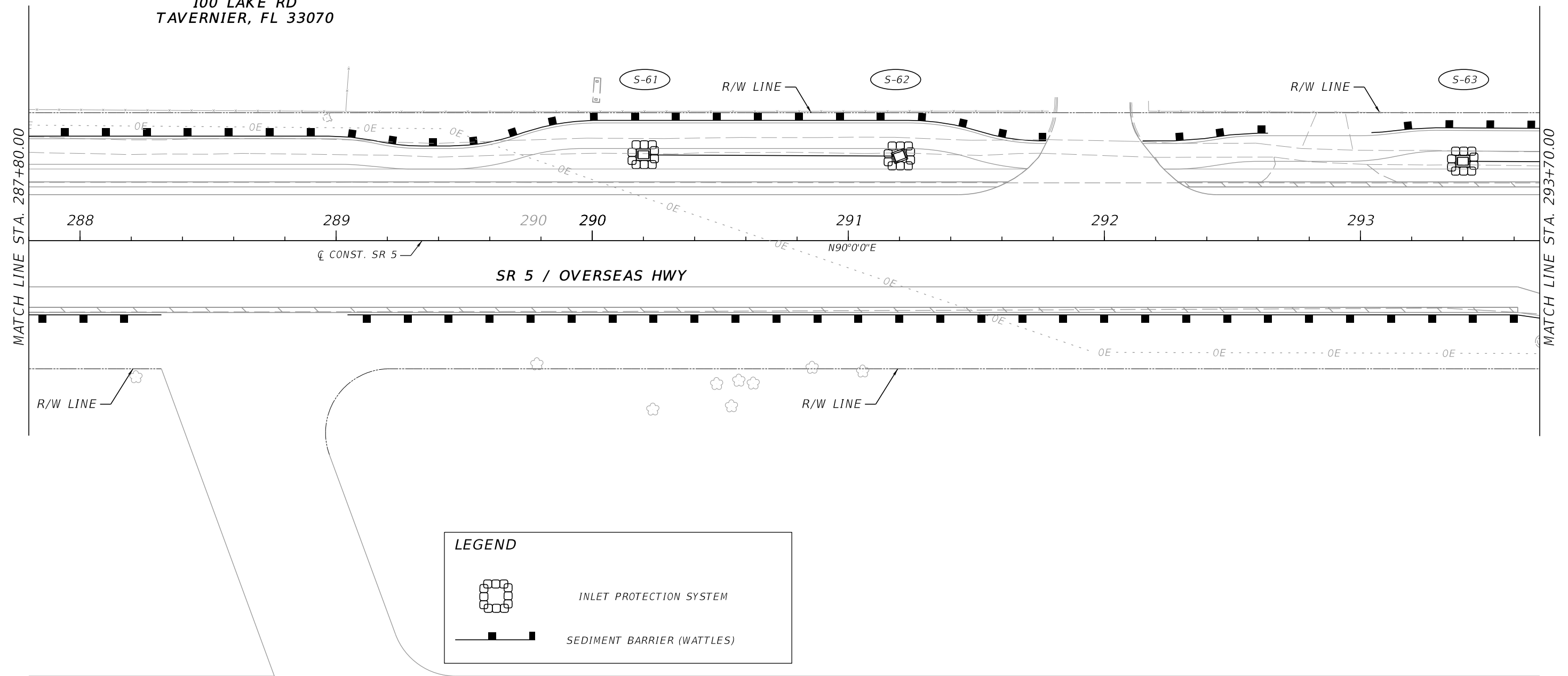
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DATE	DESCRIPTION	DATE	DESCRIPTION	PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		128
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
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




PLANTATION KEY SCHOOL
100 LAKE RD
TAVERNIER, FL 33070



LEGEND

 INLET PROTECTION SYSTEM

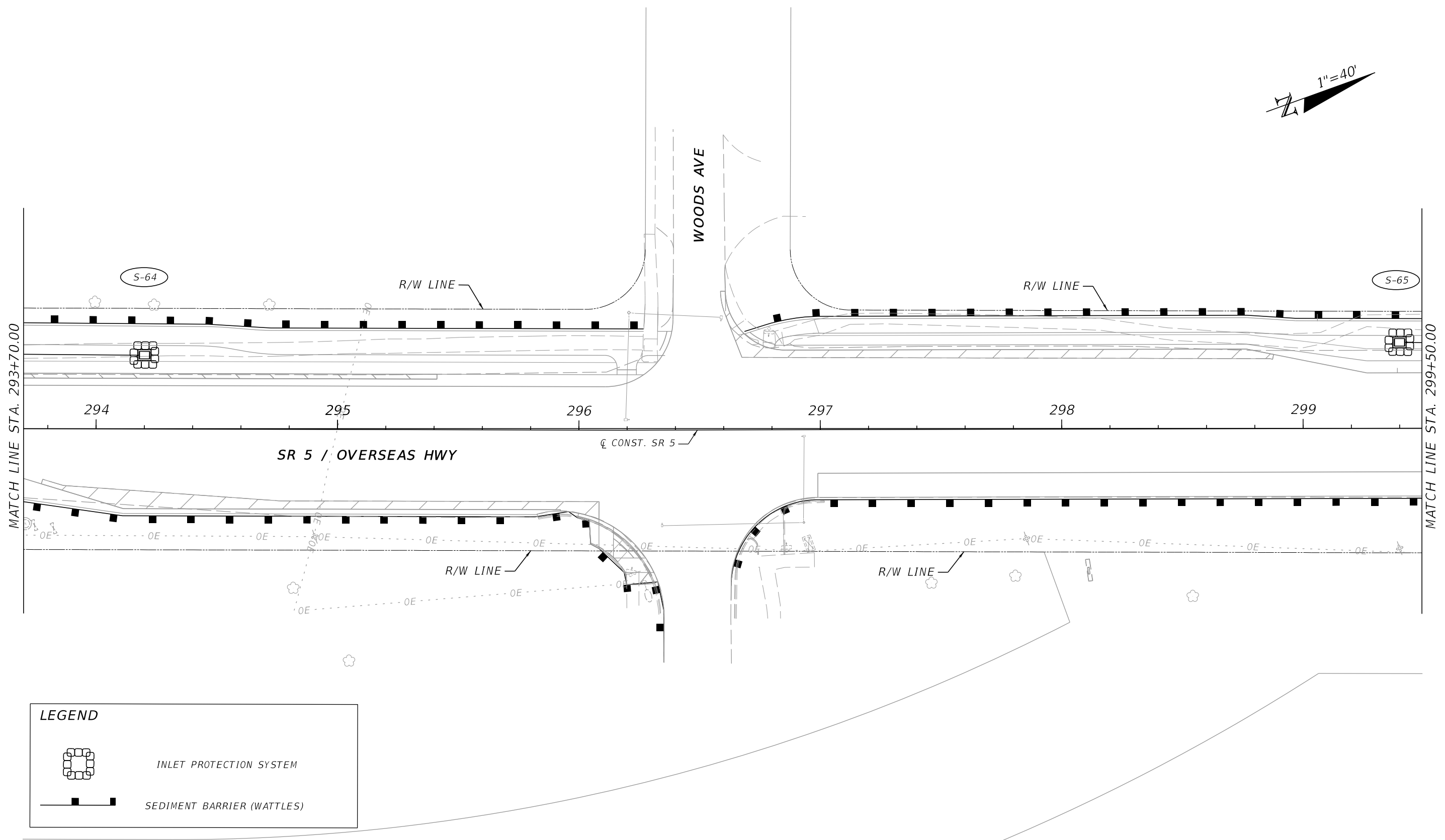
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
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DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		SR 5	MONROE	447810-1-52-01		129


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1"=40'



LEGEND

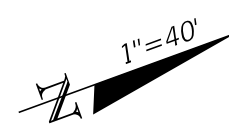
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 SEDIMENT BARRIER (WATTLES)

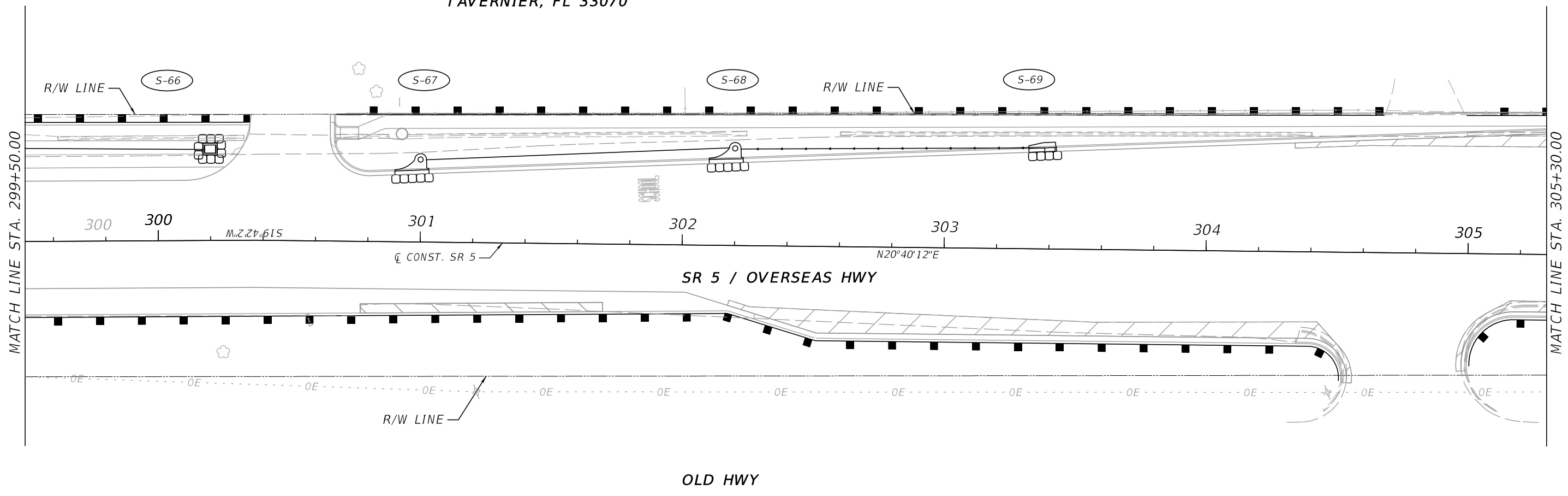
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DATE	DESCRIPTION	DATE	DESCRIPTION							
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		130
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
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




89990 OVERSEAS HWY
TAVERNIER, FL 33070



LEGEND

 INLET PROTECTION SYSTEM

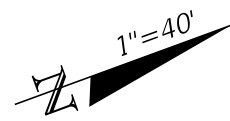
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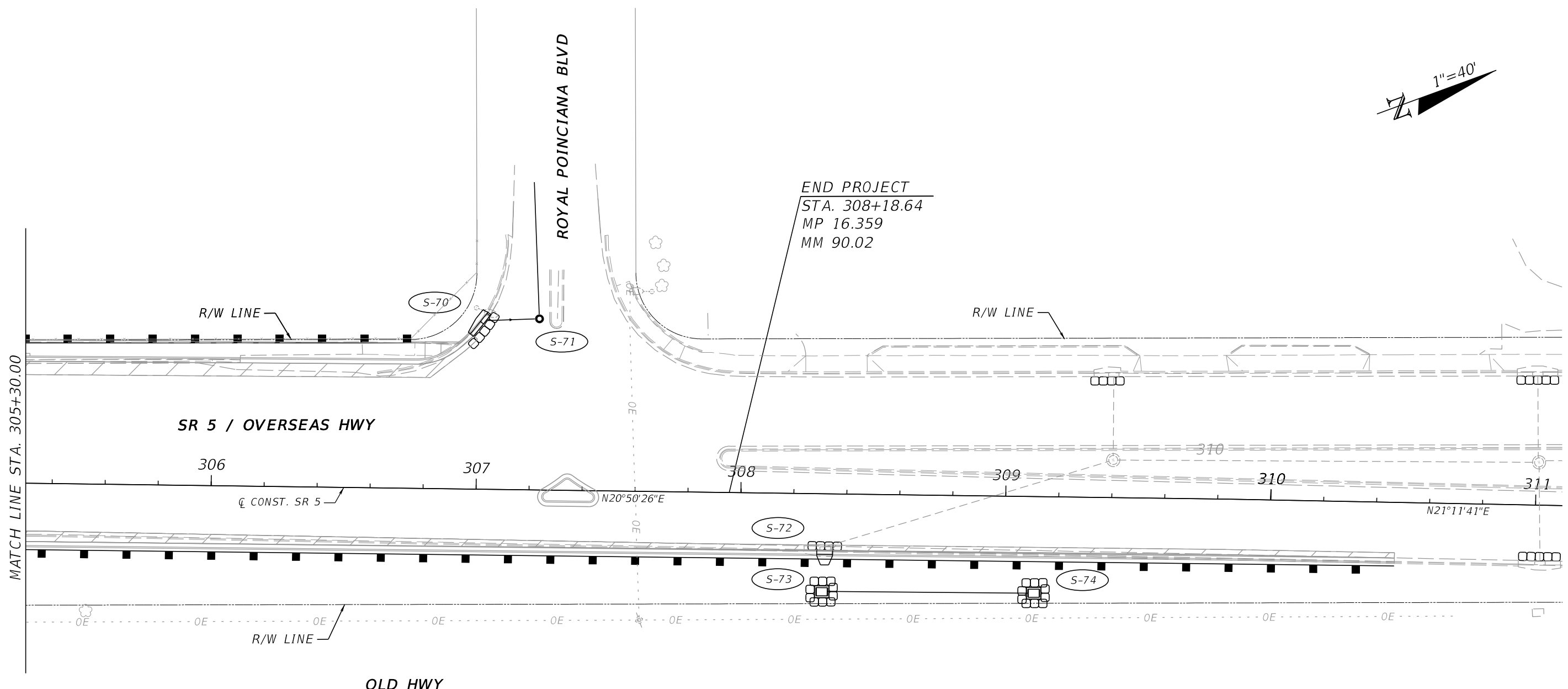
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		131
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
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




END PROJECT
 STA. 308+18.64
 MP 16.359
 MM 90.02



LEGEND

 INLET PROTECTION SYSTEM

 SEDIMENT BARRIER (WATTLES)

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							
				PEDRO M. PELEGRIN, P.E. LICENSE NUMBER: 76951 RS&H, INC. 6303 BLUE LAGOON DRIVE, SUITE 325 MIAMI, FL 33126		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		132
				SR 5	MONROE	447810-1-52-01				

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GENERAL NOTES

=====

1. LANE CLOSINGS SHALL OCCUR ONLY DURING NON-PEAK HOURS
NON-PEAK HOURS ARE:

FROM 9:00 A.M. TO 4:00 P.M. MONDAY THROUGH FRIDAY (OPEN ROADWAY SINGLE LANE CLOSURE)
2. TRAFFIC CONTROL PLANS FOR PHASE 3 ARE DESIGNED FOR NON-PEAK HOURS ONLY.
3. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED FROM 8 PM TO 8 AM EXCEPT FOR MILLING, RESURFACING AND STRIPING AS INDICATED IN PHASE 3 WHICH SHALL OCCUR FROM:

8:00 P.M. TO 6:00 A.M. SUNDAY THROUGH THURSDAY (FOR 2 LANE ROADWAY)
4. REGULATORY SPEED ESTABLISHED WITHIN WORK ZONE TRAVEL WAYS SHALL BE 45 M.P.H.
5. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED IN ADVANCE OF THE PROJECT LIMITS ON SR 5 FOURTEEN (14) DAYS PRIOR TO THE BEGIN CONSTRUCTION START DATE AND DURING CONSTRUCTION AS AUTHORIZED BY THE ENGINEER. SUGGESTED PCMS MESSAGE IS AS FOLLOWS:

PCMS MESSAGE PRIOR TO BEGINING OF CONSTRUCTION

MESSAGE 1

	R	O	A	D	
	W	O	R	K	
	B	E	G	I	N
	S				

MESSAGE 2

M	M	-	D	D	-

PCMS MESSAGE DURING CONSTRUCTION

MESSAGE 1

	R	O	A	D	
	W	O	R	K	
	A	H	E	A	D

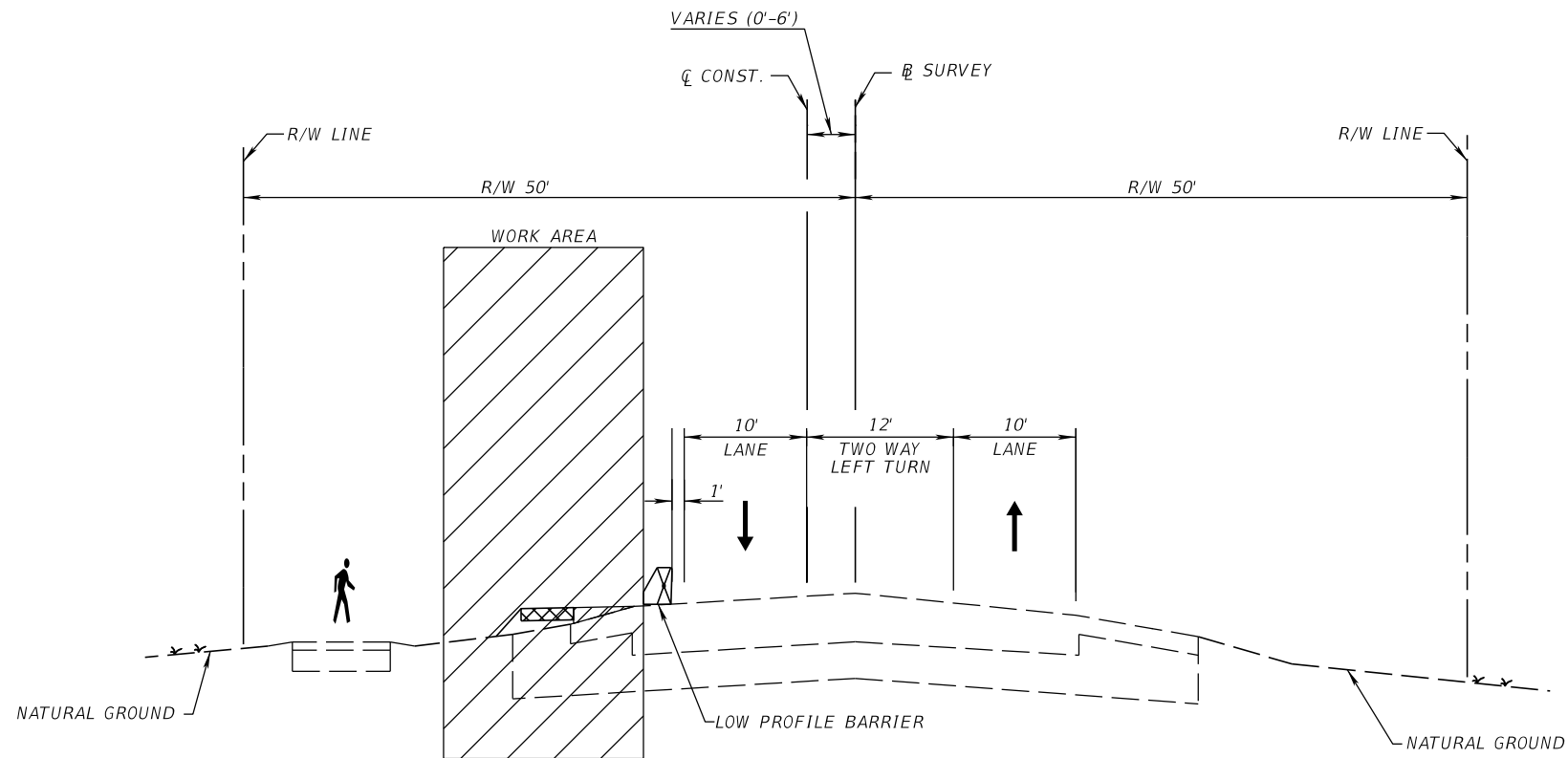
MESSAGE 2

	E	X	P	E	C	T
	D	E	L	A	Y	S

4/14/2023 3:13:07 PM Rigenson C:\Users\Rigenson\Box\Projects\Worksets\FDOT\44781015201\Roadway\TCGRD01.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TEJSINGH A. RANA LICENSE NUMBER: 81162 HIGHWAY STUDIO, LLC 7800 SW 133 STREET PINECREST, FL 33156		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		133
						SR 5	MONROE	447810-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

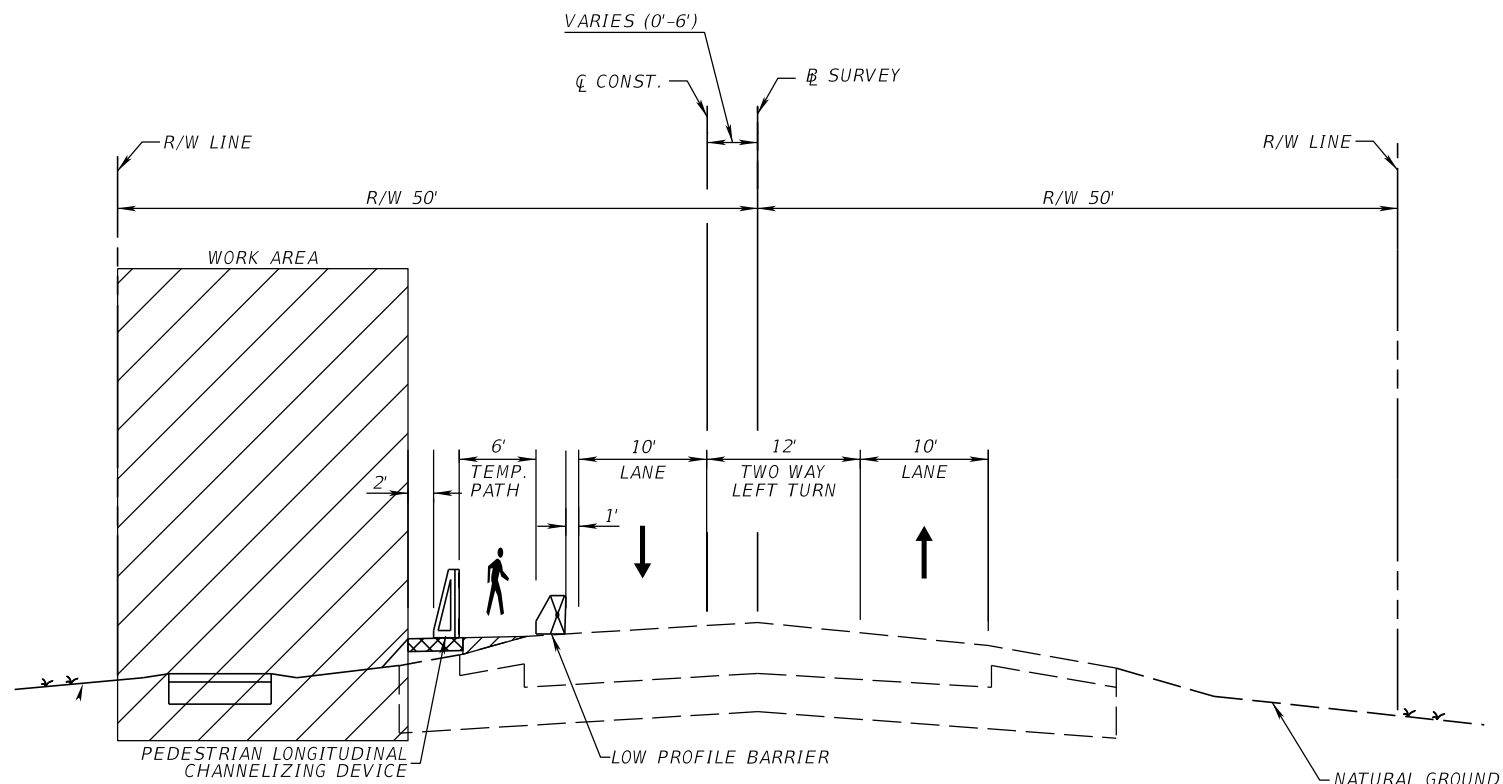


PHASE 1

PHASE 1

INTENT OF THIS PHASE IS TO CONSTRUCT THE TEMPORARY PATH FOR BIKE/PED ALONG THE SB ROADWAY

1. REDUCE NB AND SB LANES WIDTH TO 10' AND MAINTAIN TRAFFIC AS PER INDEX 102-602
2. CONSTRUCT TEMPORARY 6" PATH FOR BIKE/PED ALONG THE SB
 - A. CONSTRUCT TEMPORARY OVERBUILD ON EXISTING PAVED SHOULDER AND TEMPORARY PAVEMENT ON EXISTING UNPAVED SHOULDER TO MEET THE CROSS SLOPE OF 0.02.
 - B. INSTALL PORTABLE TEMPORARY LOW PROFILE BARRIER AND PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES AS PER INDEX 102-120 AND 102-600.



PHASE 2A

PHASE 2A

INTENT OF THIS PHASE IS TO CONSTRUCT THE PERMANENT DRAINAGE SYSTEM AND PROPOSED SHARE USE PATH ALONG THE SB

1. CONSTRUCT OUTSIDE DRAINAGE IMPROVEMENTS ALONG WITH ANY SIGNAL AND LIGHTING IMPROVEMENTS.
2. CONSTRUCT PROPOSED SHARE USE PATH.

LEGEND

- TEMPORARY OVERBUILD
- TEMPORARY PAVEMENT

4/14/2023 3:13:09 PM Rigenson C:\Users\Rigenson\Box\Projects\Worksets\FDOT\44781015201\Roadway\TCT\RD01.dgn

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

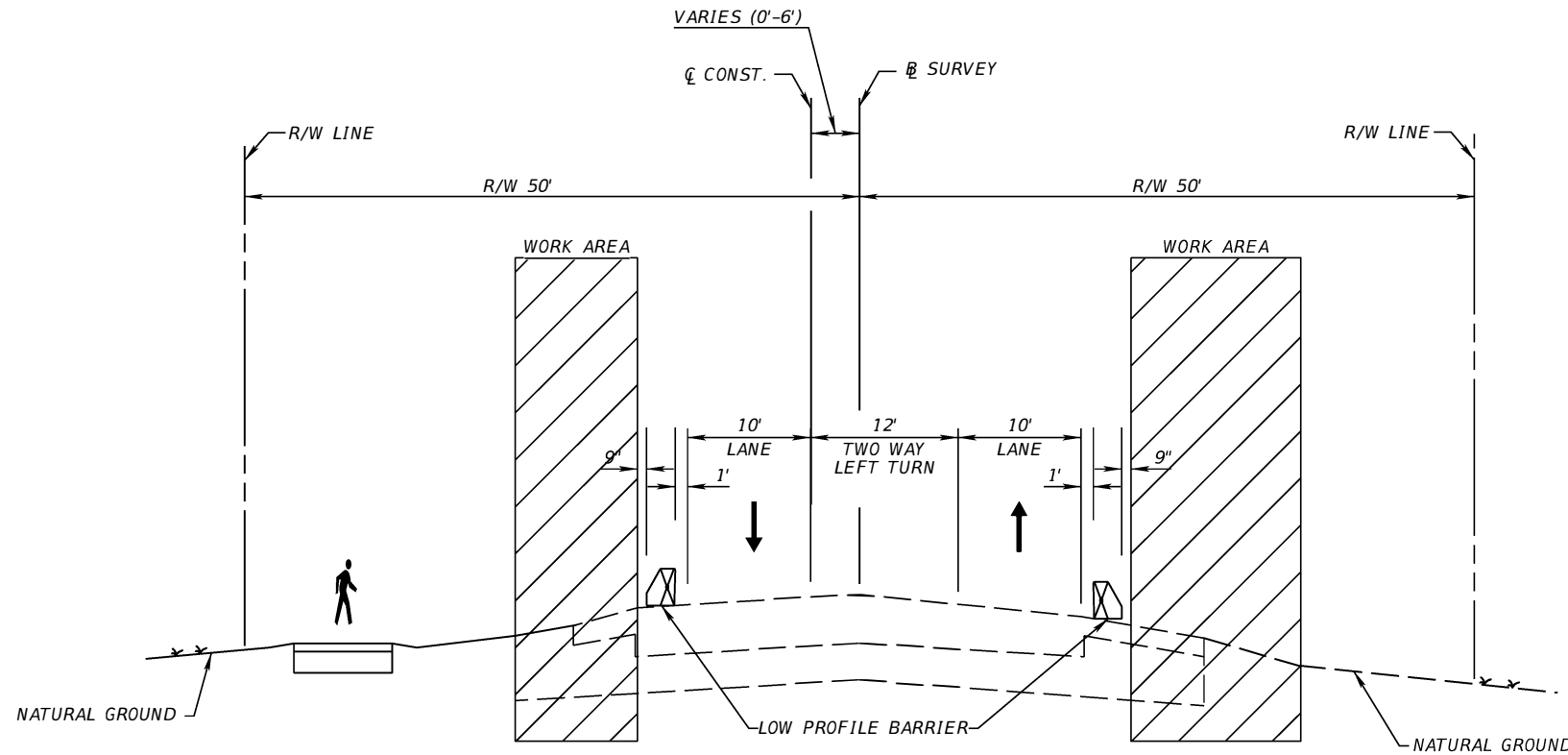
ENGINEER OF RECORD
 TEJSINGH A. RANA
 LICENSE NUMBER: 81162
 HIGHWAY STUDIO, LLC
 7800 SW 133 STREET
 PINECREST, FL 33156

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

**TEMPORARY TRAFFIC
CONTROL PLANS**

SHEET
NO.
134

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

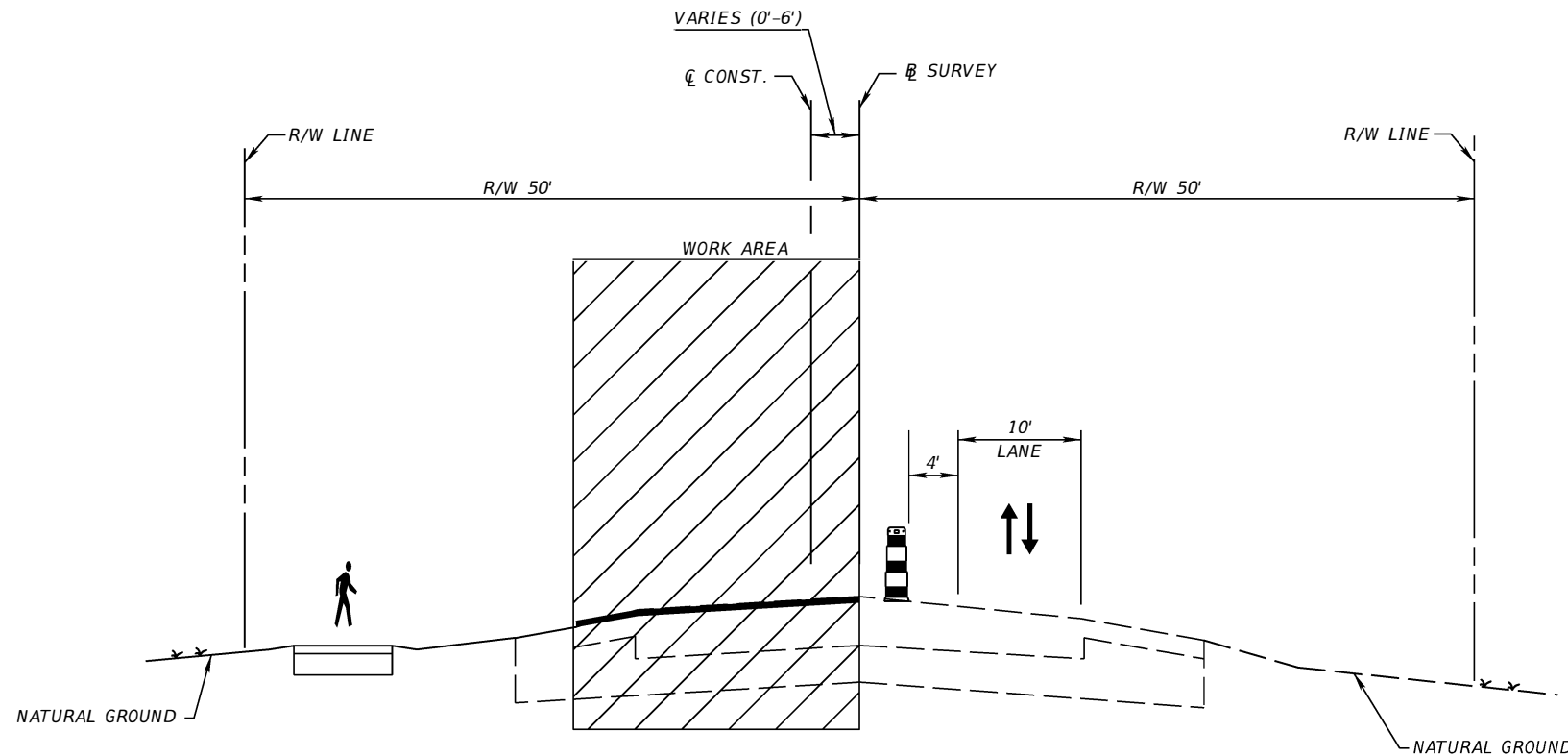


PHASE 2B

PHASE 2B

INTENT OF THIS PHASE IS TO CONSTRUCT THE SB AND NB SHOULDER WIDENING AND ROADWAY WIDENING AT THE RT TURN LANE LOCATIONS.

1. CONSTRUCT PROPOSED SHOULDER AND ROADWAY WIDENING (BASE, SUBBASE, AND STRUCTURAL COURSE) AT RT TURN LOCATIONS ALONG THE PROJECT LIMIT.



PHASE 3A

PHASE 3A

INTENT OF THIS PHASE IS TO MILL AND RESURFACE THE SB ROADWAY AND PART OF THE MIDDLE LANE

1. CLOSE LANE AS SHOWN IN PHASE 3A USING INDEX 102-603 AND 102-604.
2. MILL AND RESURFACE EXISTING PAVEMENT.

4/14/2023 3:13:10 PM Rigenson C:\Users\Rigenson\Box\Projects\Worksets\FDOT\44781015201\Roadway\TCTY\RD01.dgn

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

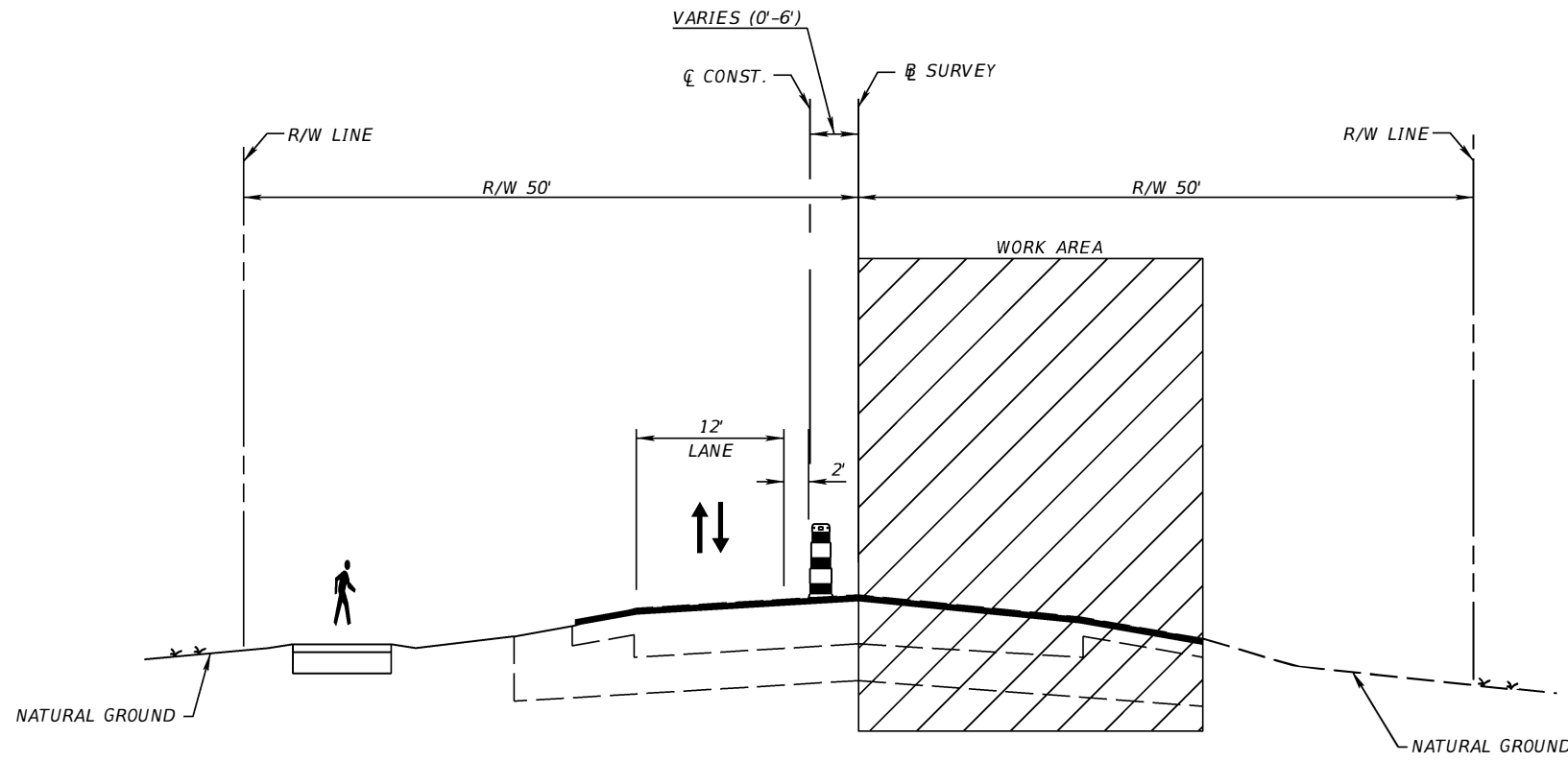
ENGINEER OF RECORD
 TEJSINGH A. RANA
 LICENSE NUMBER: 81162
 HIGHWAY STUDIO, LLC
 7800 SW 133 STREET
 PINECREST, FL 33156

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

**TEMPORARY TRAFFIC
CONTROL PLANS**

SHEET NO.
135

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PHASE 3B

PHASE 3B

INTENT OF THIS PHASE IS TO MILL AND RESURFACE THE NB ROADWAY AND THE REMAINING MIDDLE LANE

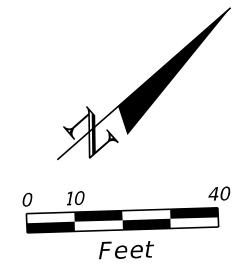
1. CLOSE LANE AS SHOWN IN PHASE 3B USING INDEX 102-603 AND 102-604.
2. MILL AND RESURFACE EXISTING PAVEMENT.

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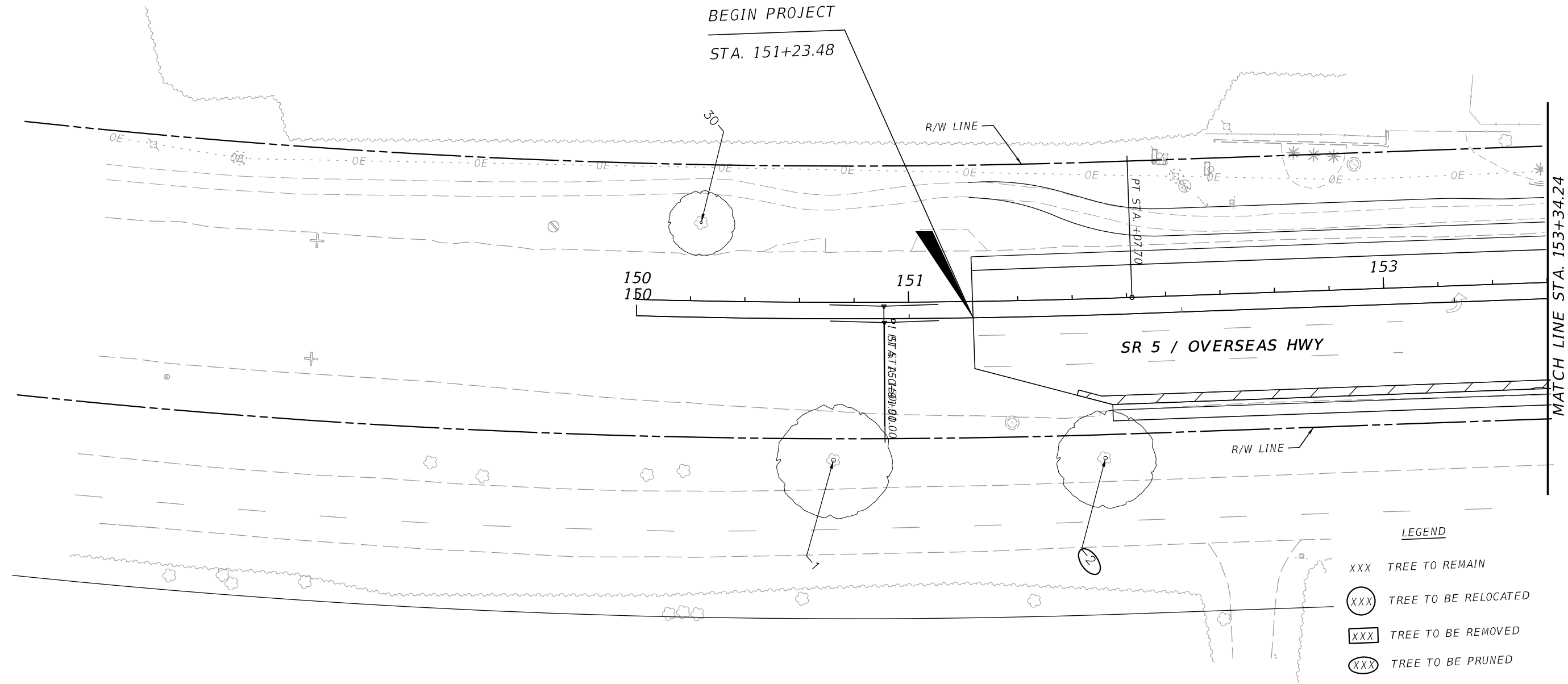
REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	TEJSINGH A. RANA LICENSE NUMBER: 81162 HIGHWAY STUDIO, LLC 7800 SW 133 STREET PINECREST, FL 33156			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		136
							SR 5	MONROE	447810-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PLANTATION
HAMMOCK PRESERVE



BEGIN PROJECT
STA. 151+23.48



SR 5 / OVERSEAS HWY

87201 OLD HWY
ISLAMORADA, FL 33036

- LEGEND**
- XXX TREE TO REMAIN
 - (XXX) TREE TO BE RELOCATED
 - [XXX] TREE TO BE REMOVED
 - (XXX) TREE TO BE PRUNED

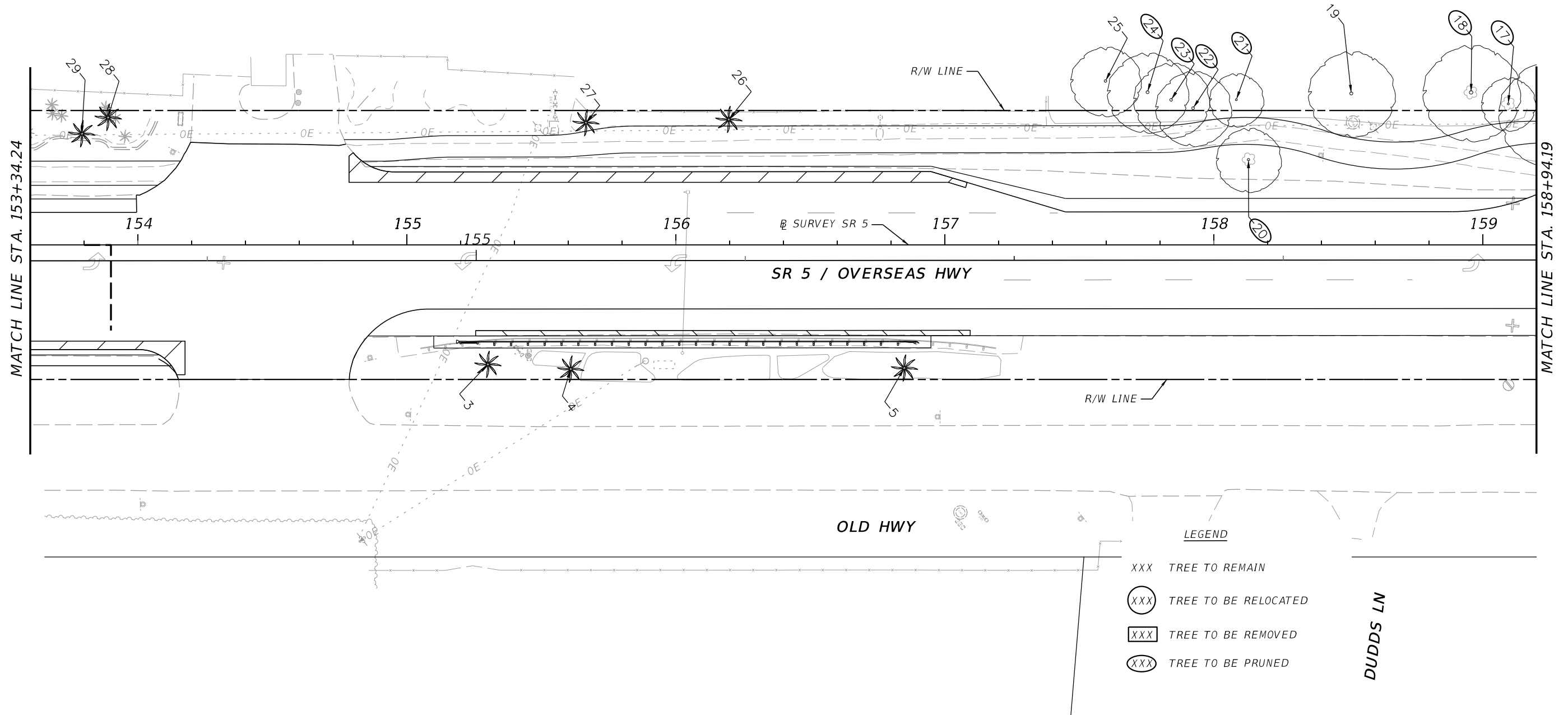
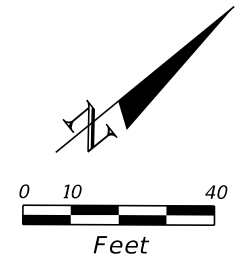
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	137

TREE DISPOSITION PLAN

87200 OVERSEAS HWY
ISLAMORADA, FL 33036

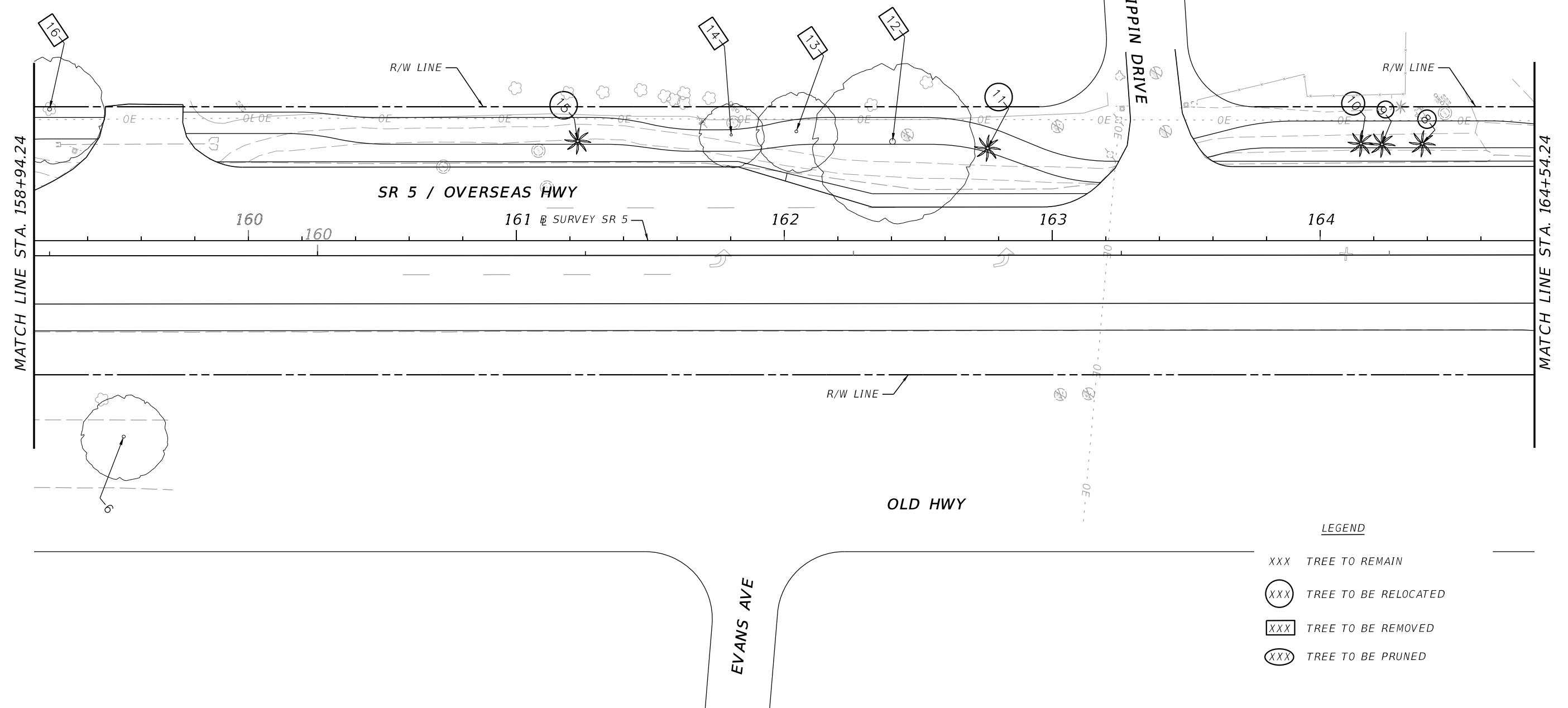
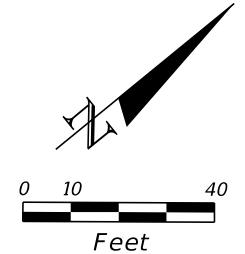


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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	138

TREE DISPOSITION PLAN



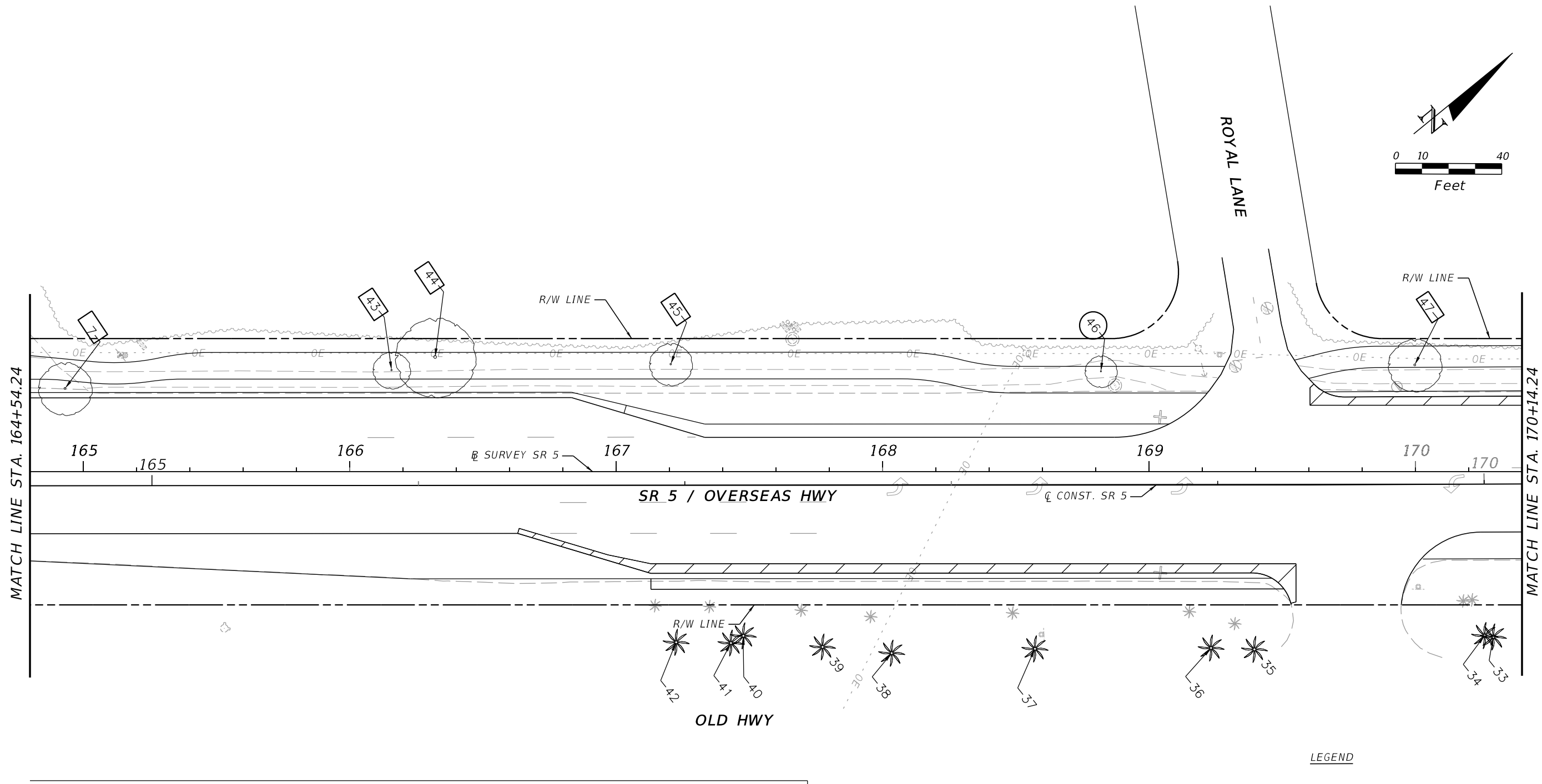
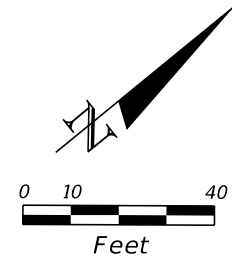
LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

4/23/2023 1:45:03 PM nperrez V:\Projects\DOT\44781015201\Landscape\PLAN\LD01.dgn

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01		139

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

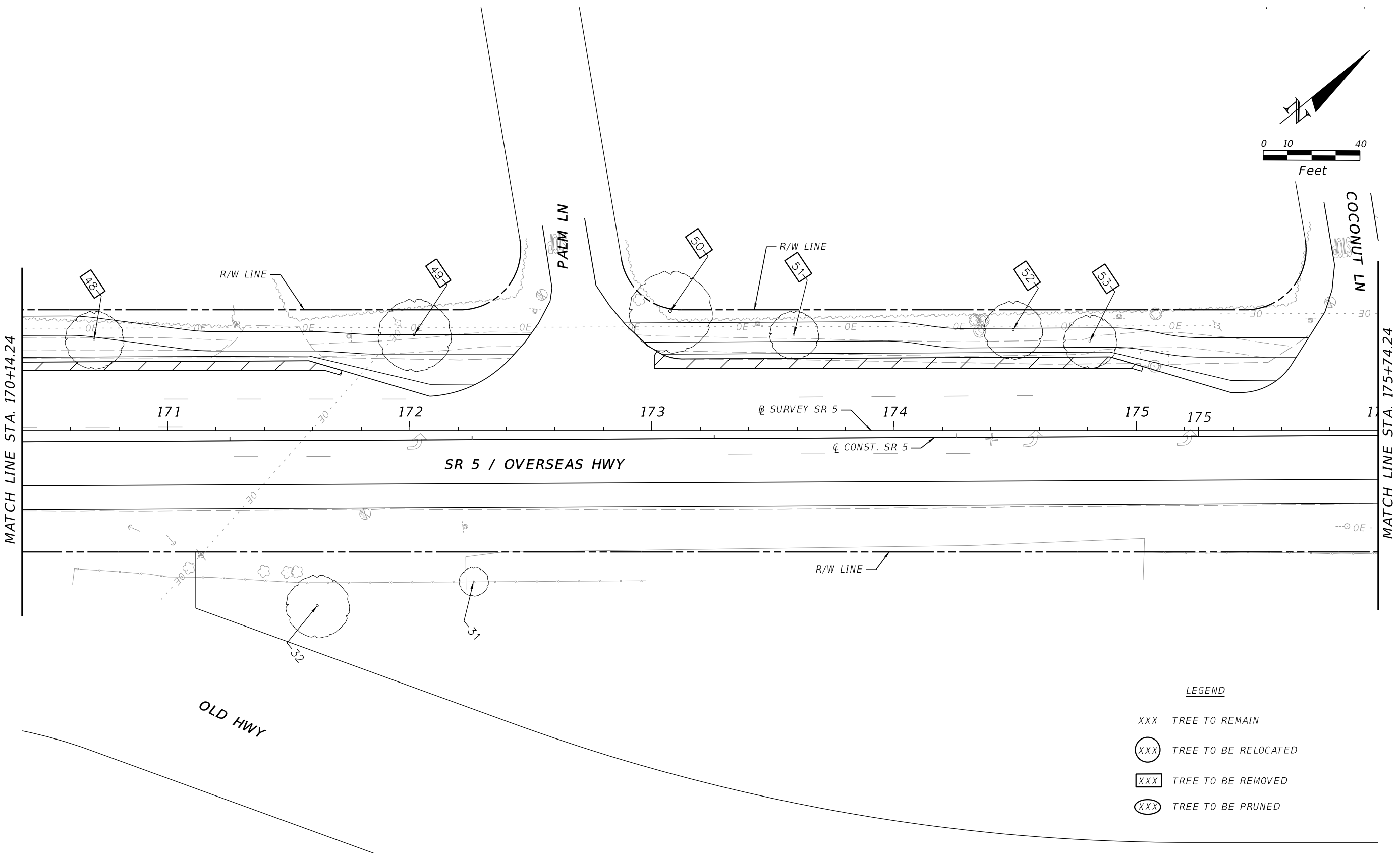
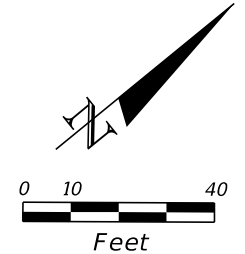


- LEGEND**
- XXX TREE TO REMAIN
 - (XXX) TREE TO BE RELOCATED
 - [XXX] TREE TO BE REMOVED
 - (XXX) TREE TO BE PRUNED

4/23/2023 1:45:03 PM nperrez V:\Projects\FDOT\44781015201\Landscape\PLANLDO1.dgn

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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01		140



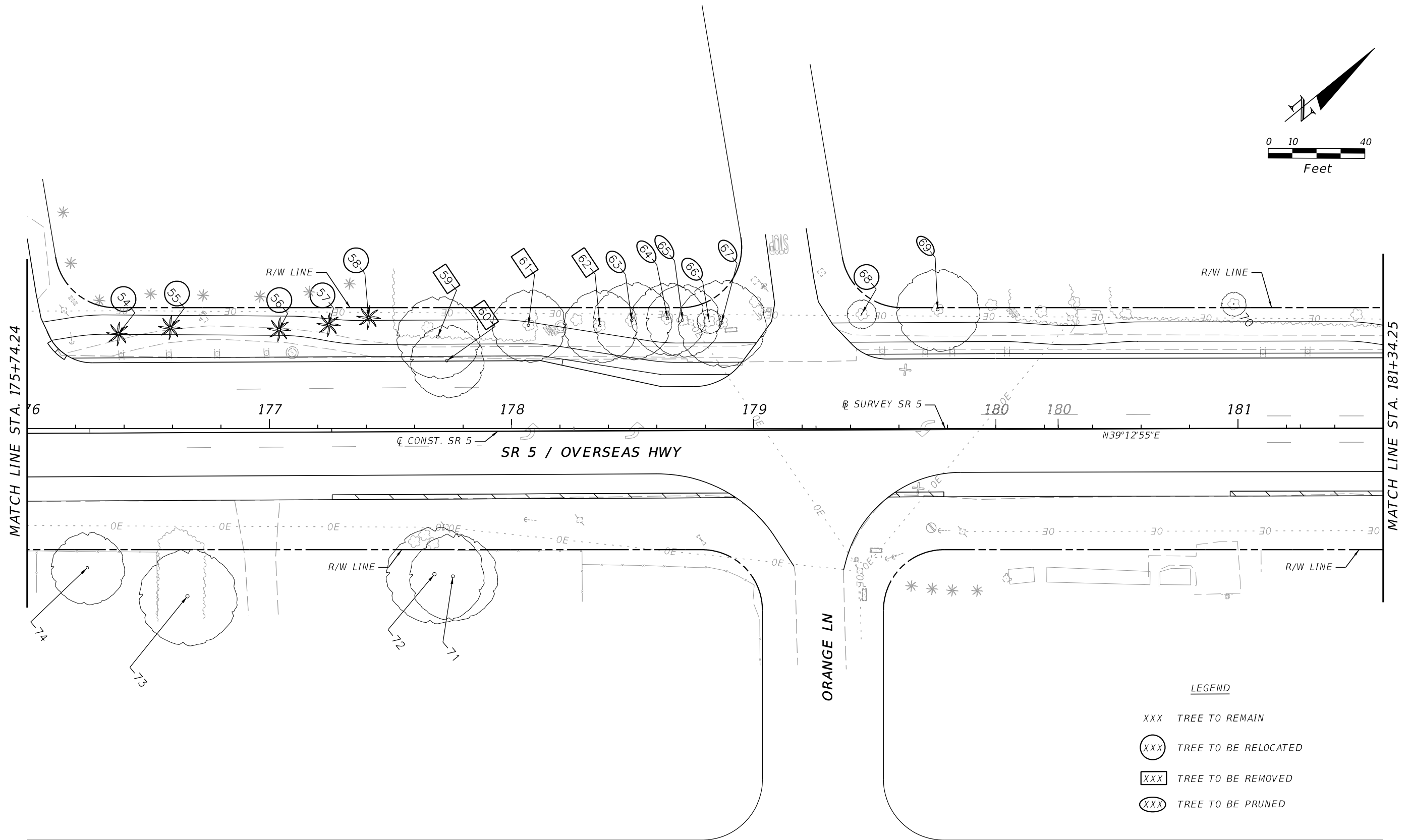
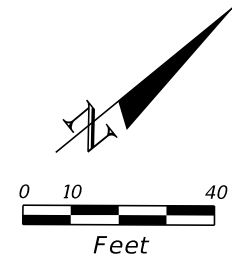
LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01		141

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.



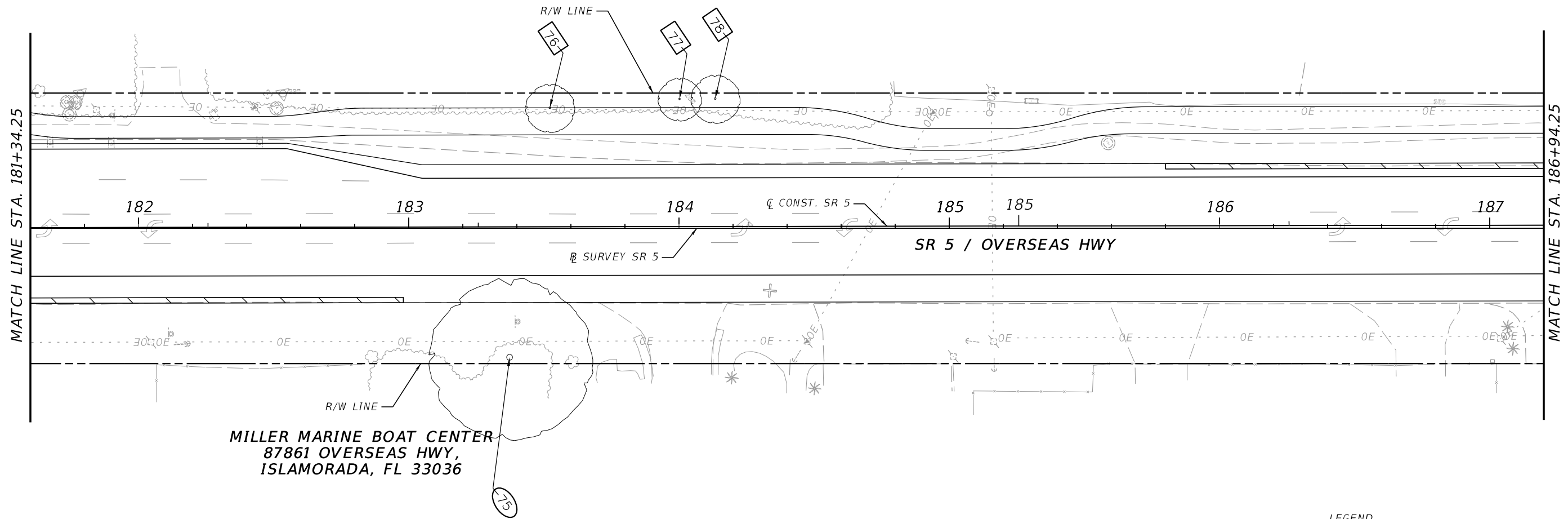
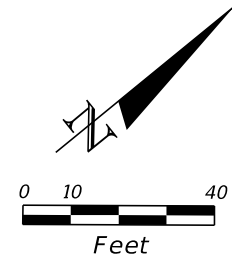
- LEGEND**
- XXX TREE TO REMAIN
 - (XXX) TREE TO BE RELOCATED
 - [XXX] TREE TO BE REMOVED
 - (XXX) TREE TO BE PRUNED

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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	142

TREE DISPOSITION PLAN

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MILLER MARINE BOAT CENTER
 87861 OVERSEAS HWY,
 ISLAMORADA, FL 33036

LEGEND

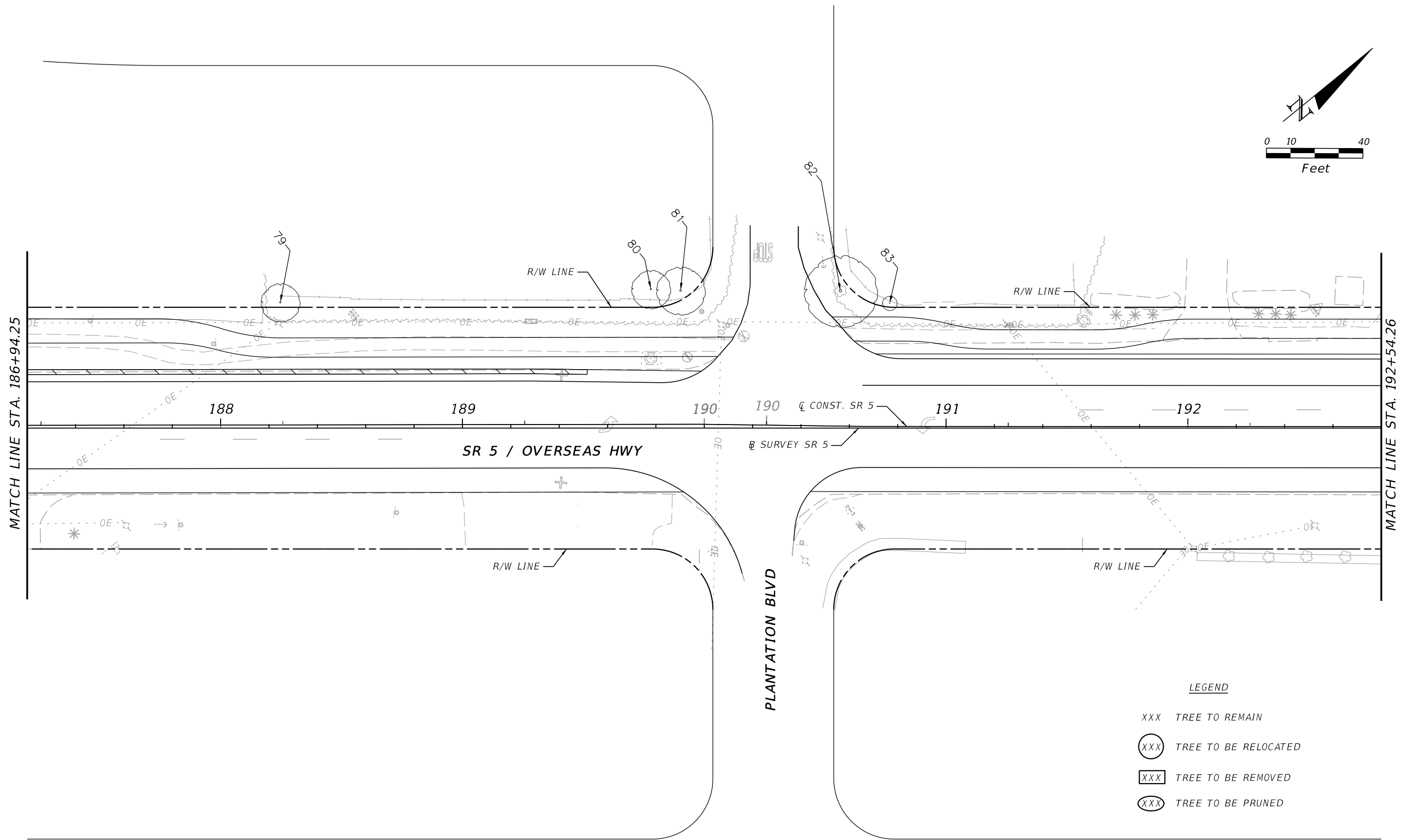
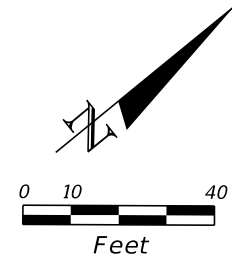
- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	143

TREE DISPOSITION PLAN



LEGEND

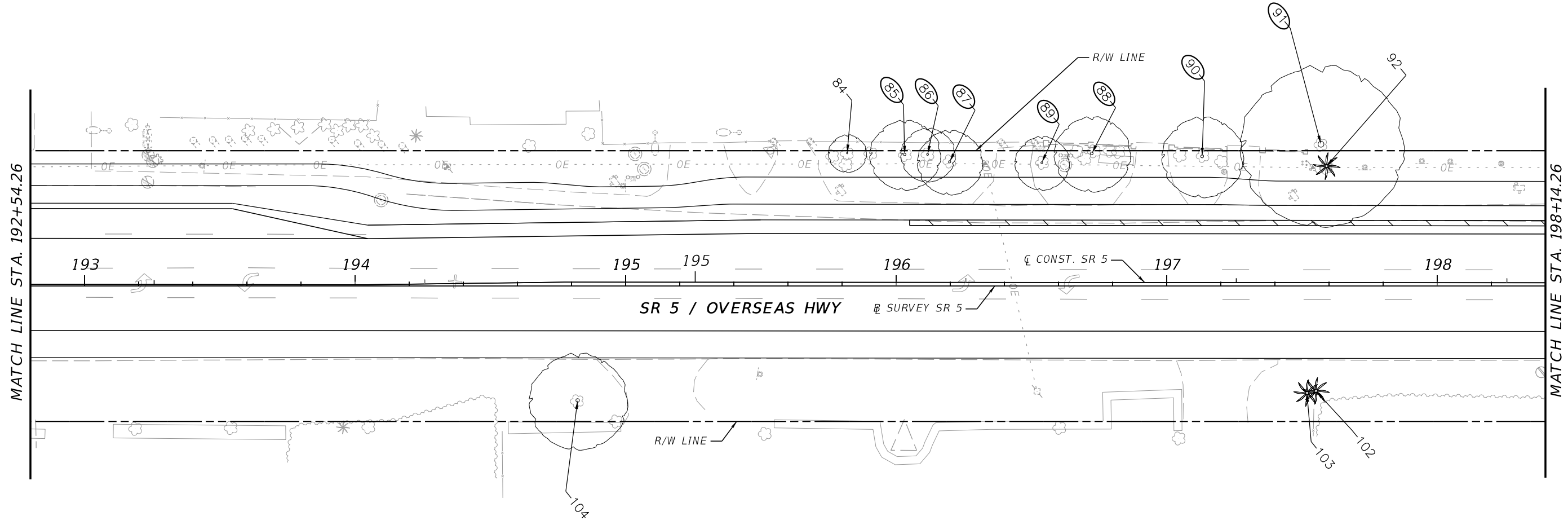
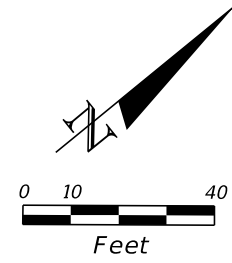
- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	144

TREE DISPOSITION PLAN

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FEDEX
88005 OVERSEAS HWY
ISLAMORADA, FL 33036

LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

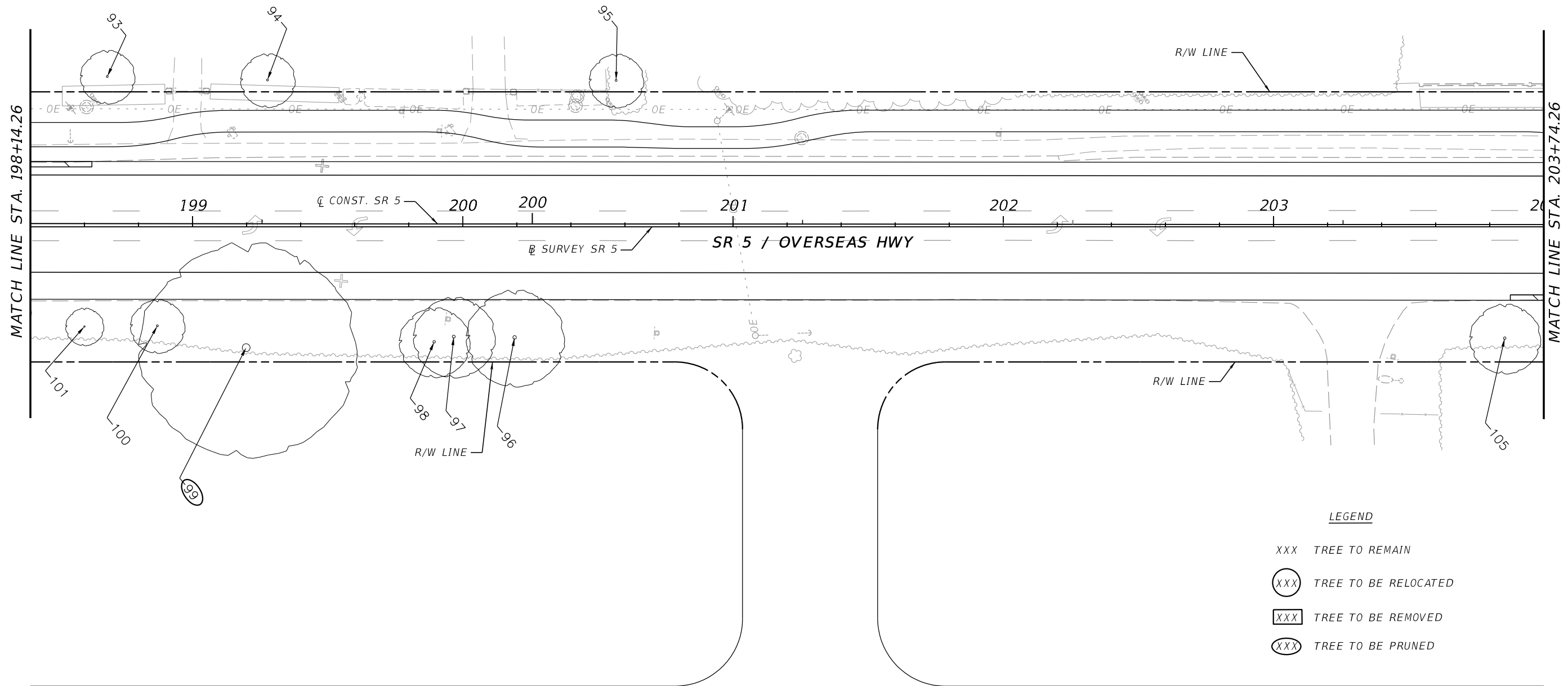
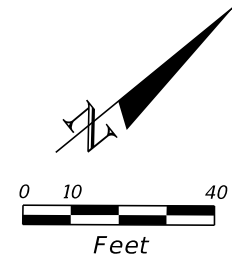
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	145

TREE DISPOSITION PLAN

88170 OVERSEAS HWY
ISLAMORADA, FL 33036

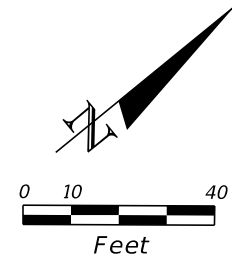


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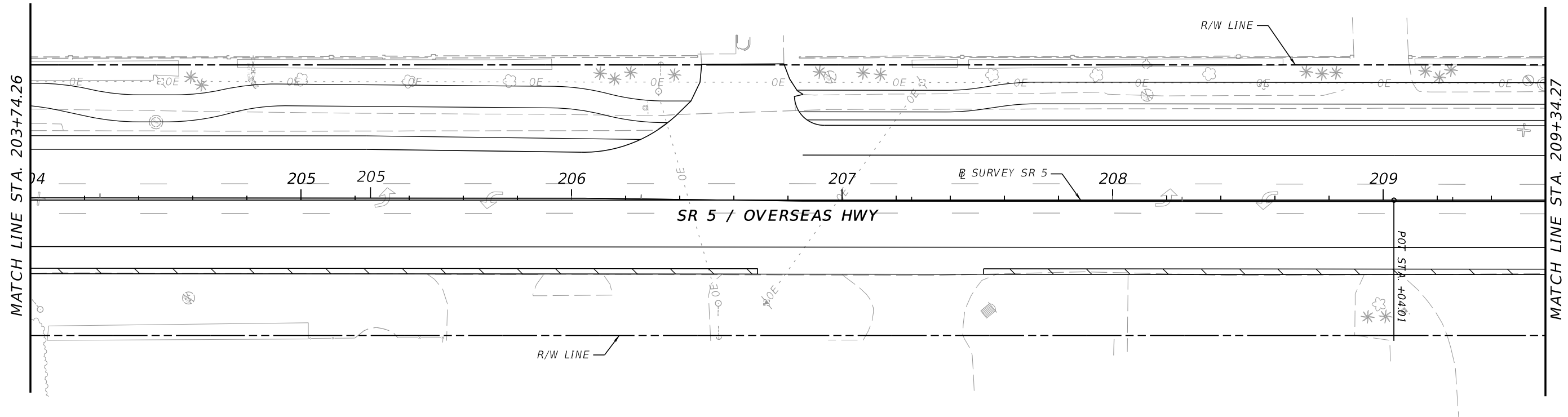
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	146

TREE DISPOSITION PLAN



SUMMER SEA CONDOMINIUM
88500 OVERSEAS HWY
TAVERNIER, FL 33070



HARDWARE STORE
88509 OVERSEAS HWY
TAVERNIER, FL 33070

LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

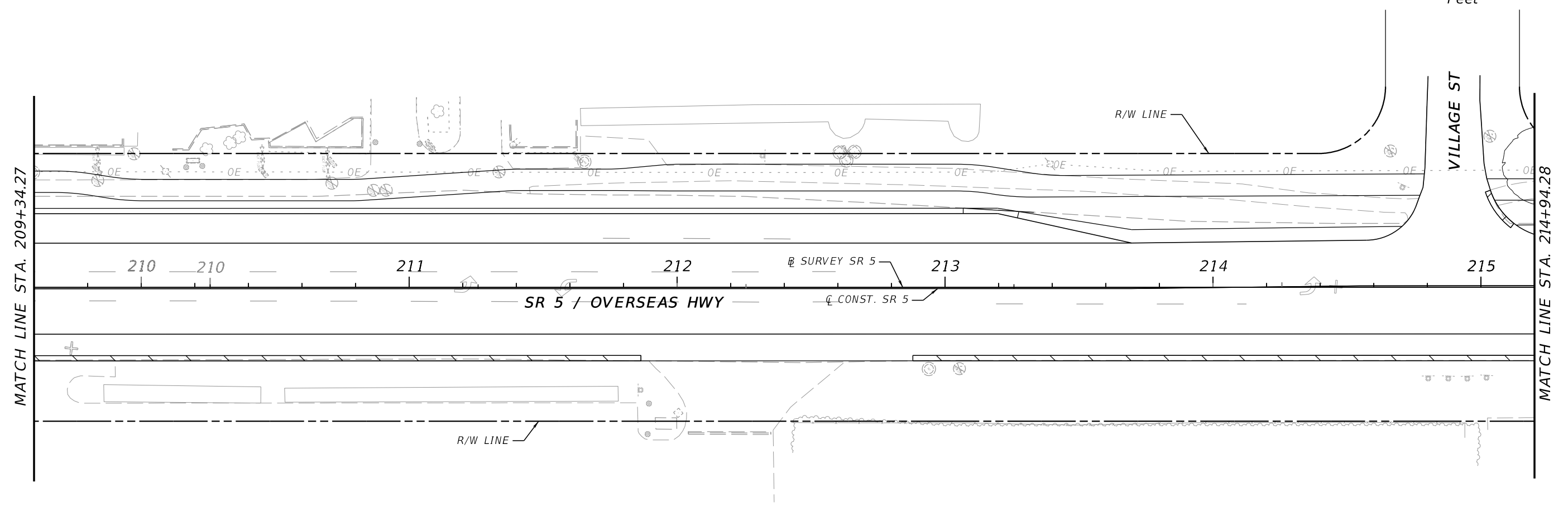
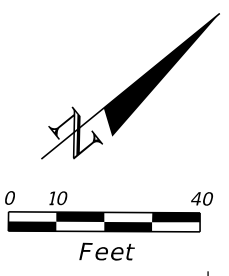
LANDSCAPE ARCHITECT
CASTO MIGUEL JUNCAL
LICENSE NUMBER LA-6667184
MILLER LEGG
1845 NW 112 AVE SUITE 211
MIAMI, FL 33172

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

TREE DISPOSITION PLAN

SHEET NO.
147

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MATCH LINE STA. 209+34.27

MATCH LINE STA. 214+94.28

LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

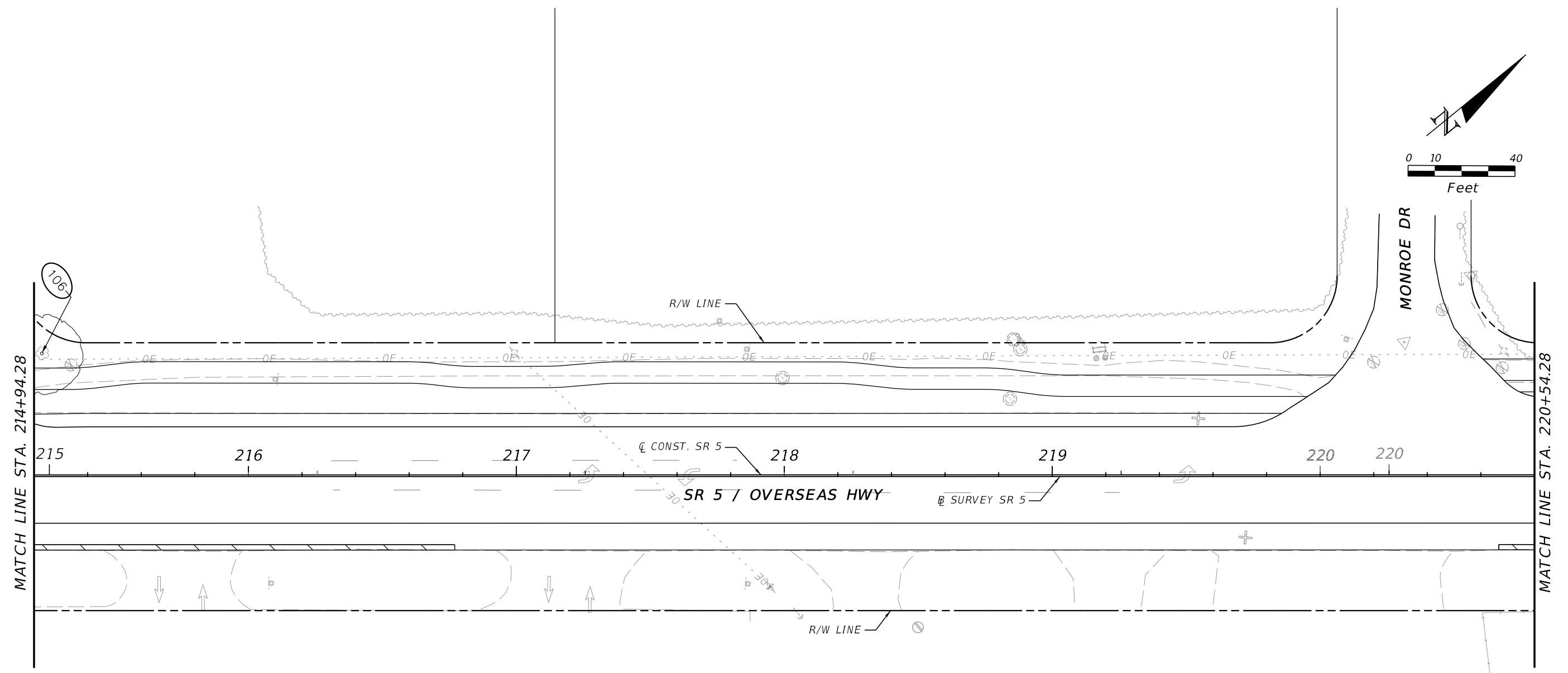
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	148

TREE DISPOSITION PLAN

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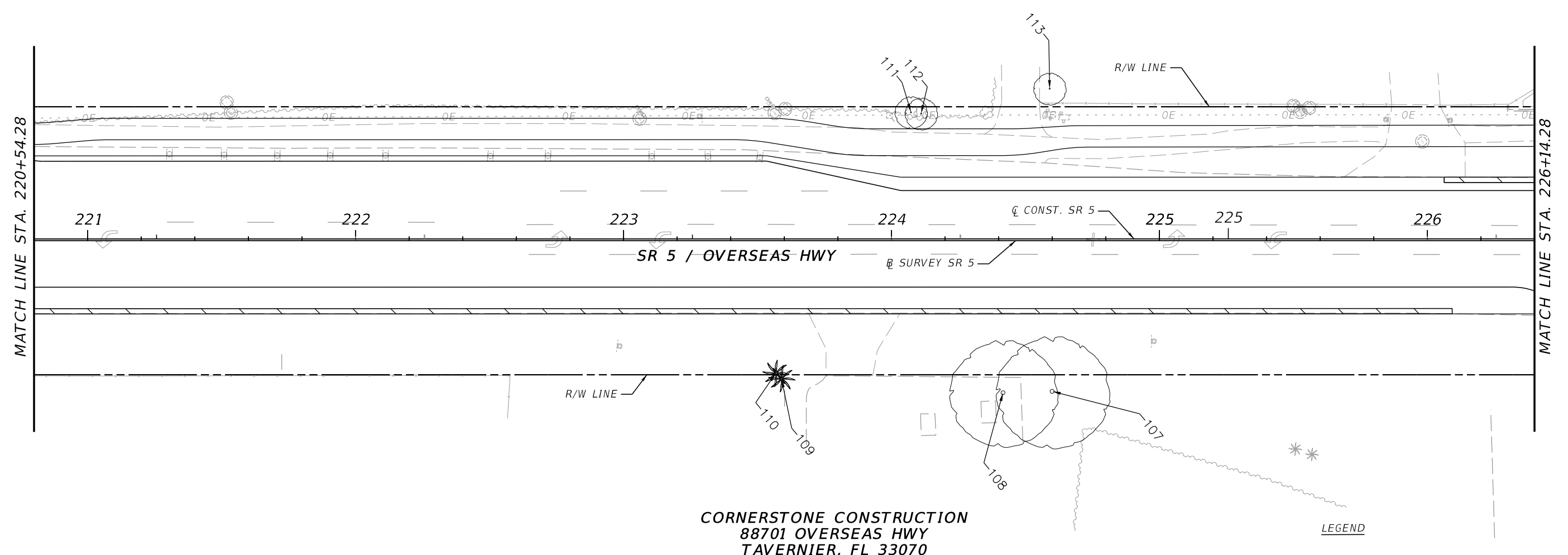
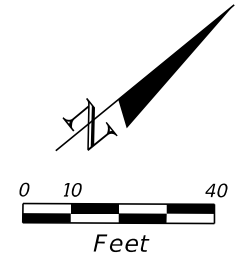


LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

REVISIONS				LANDSCAPE ARCHITECT		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	149			
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01			

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CORNERSTONE CONSTRUCTION
88701 OVERSEAS HWY
TAVERNIER, FL 33070

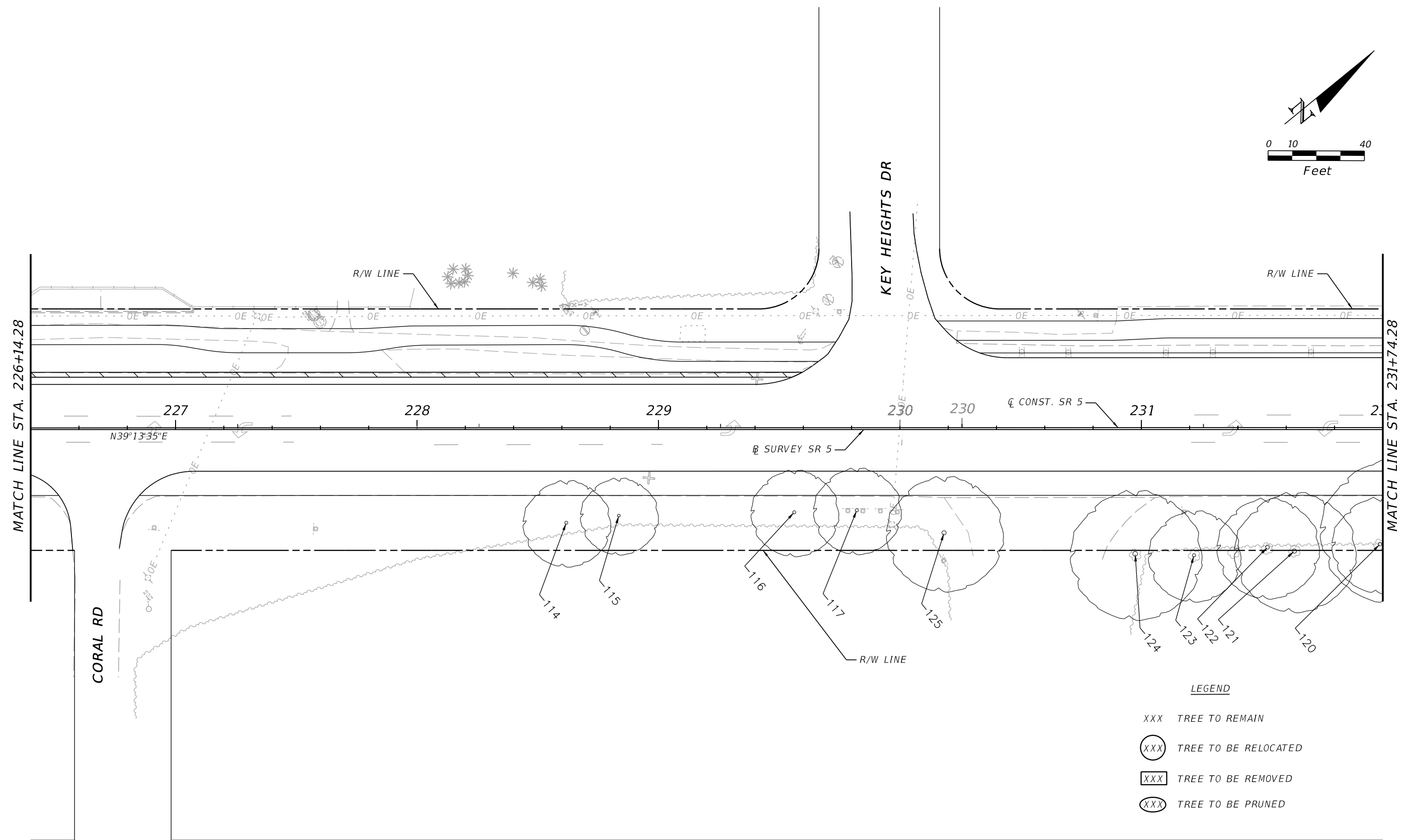
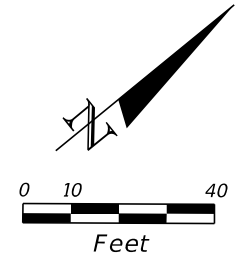
- LEGEND**
- XXX TREE TO REMAIN
 - XXX TREE TO BE RELOCATED
 - XXX TREE TO BE REMOVED
 - XXX TREE TO BE PRUNED

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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	150

TREE DISPOSITION PLAN



- LEGEND**
- XXX TREE TO REMAIN
 - (XXX) TREE TO BE RELOCATED
 - [XXX] TREE TO BE REMOVED
 - (XXX) TREE TO BE PRUNED

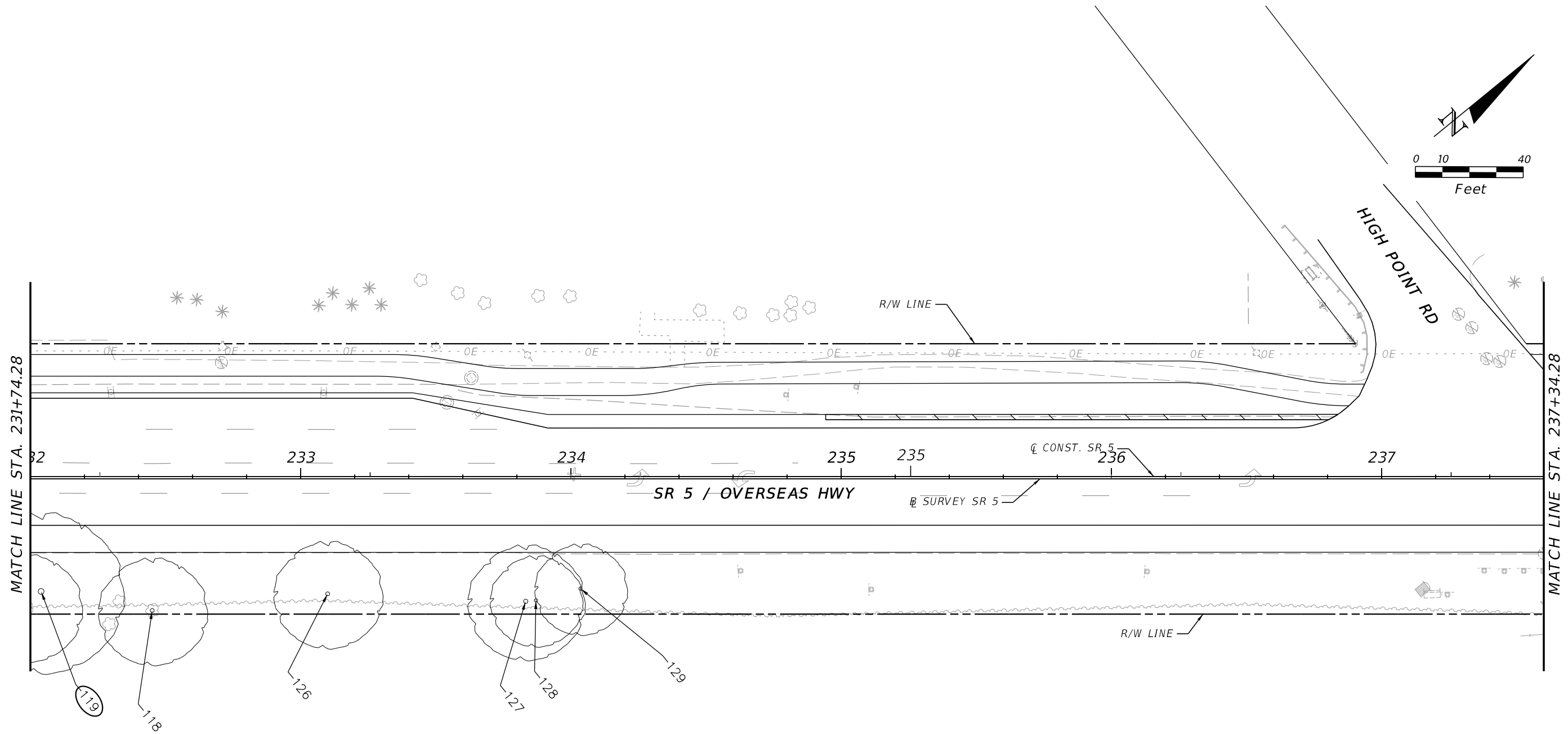
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	151

TREE DISPOSITION PLAN

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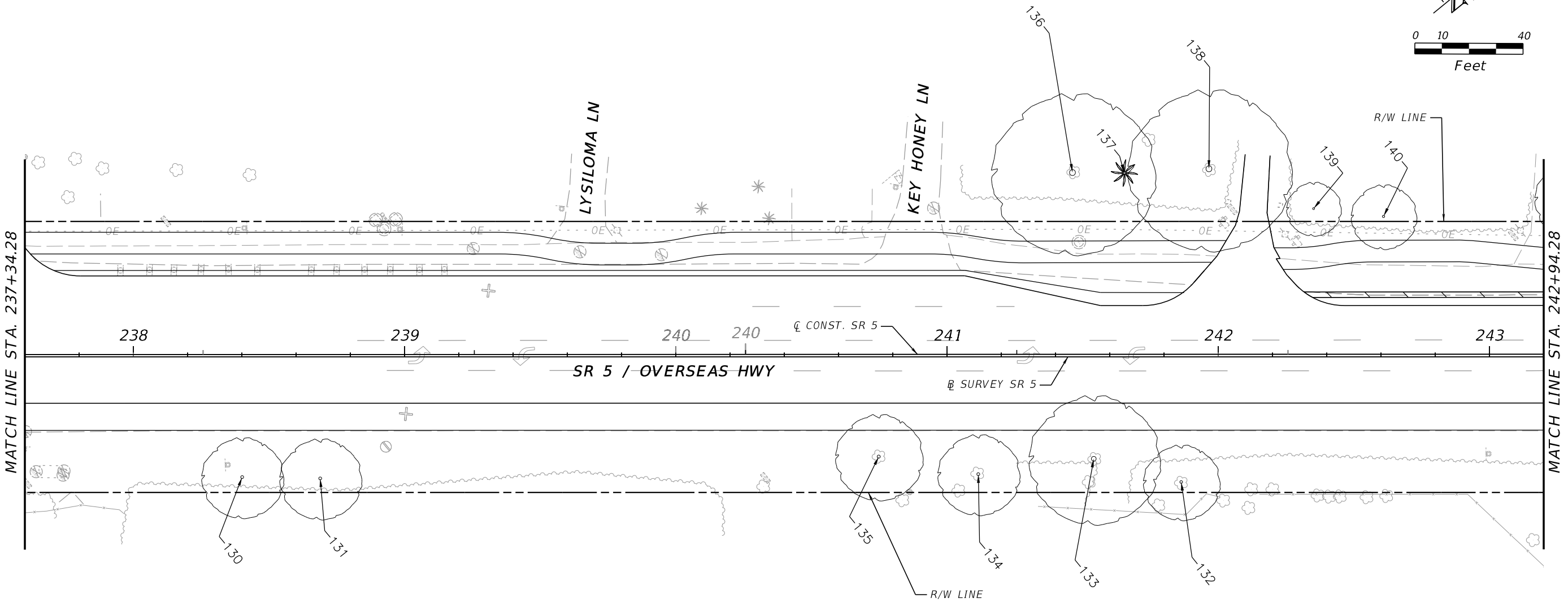
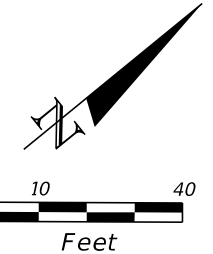


LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	152	

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LEGEND

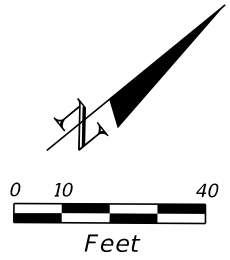
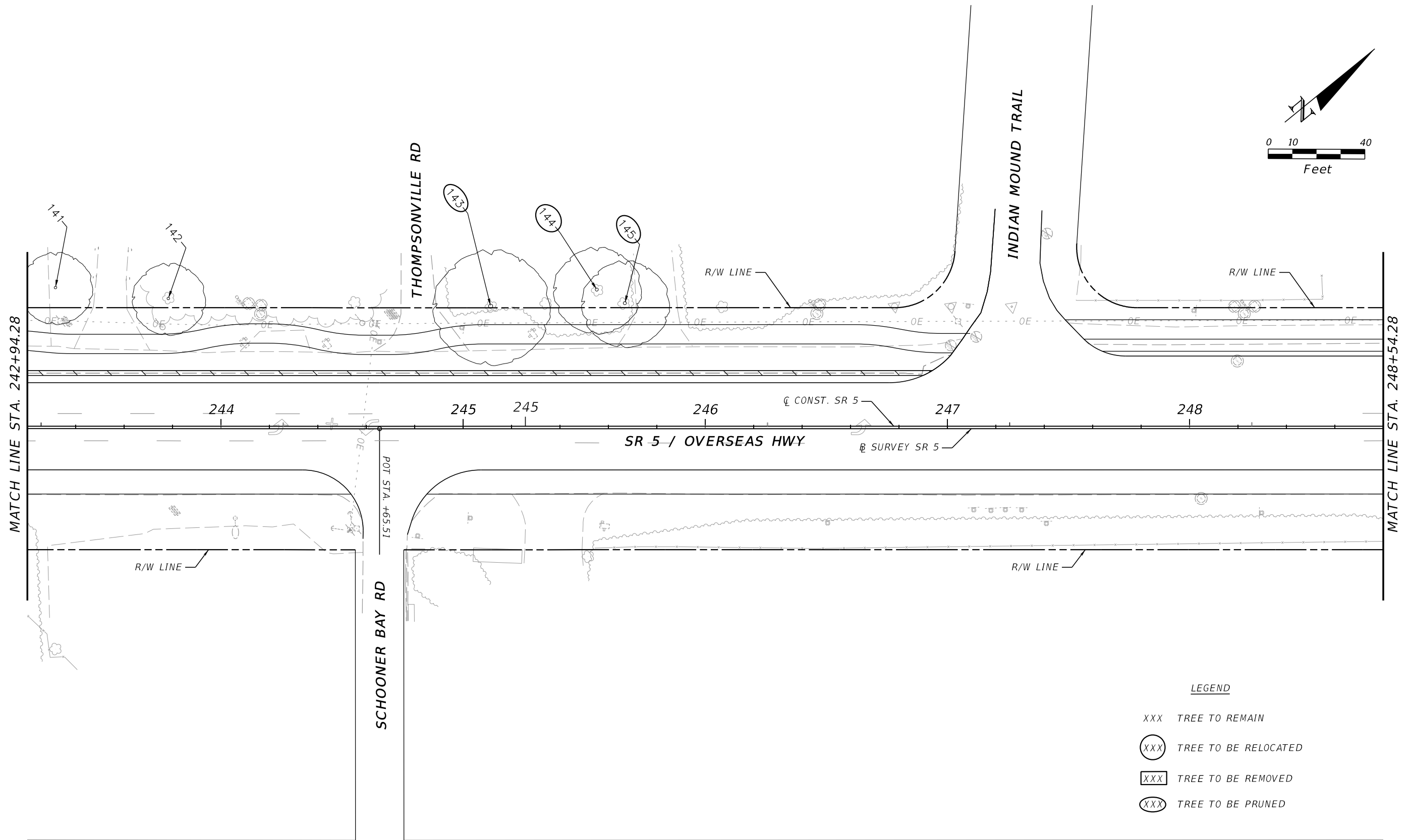
- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01		153

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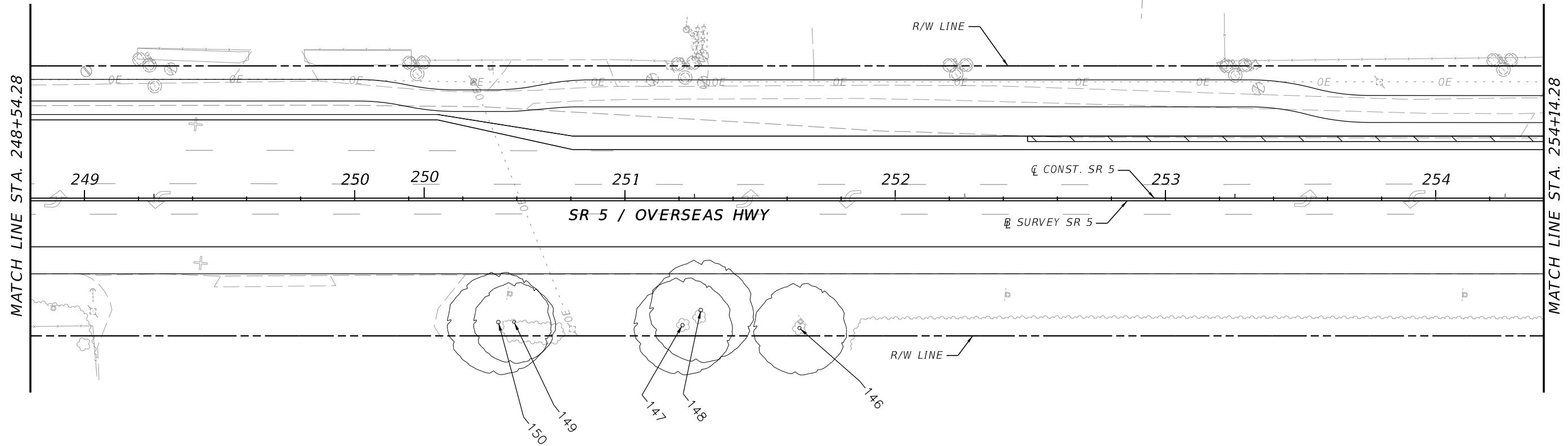
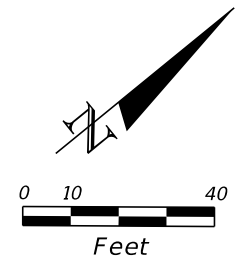
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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TREE DISPOSITION PLAN

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SOUTHEAST MOBILE CRANE SERVICE, INC
 89070 OVERSEAS HWY,
 TAVERNIER, FL 33070



ISLAMORADA DRY CLEANERS
 89015 OVERSEAS HWY,
 TAVERNIER, FL 33070

LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

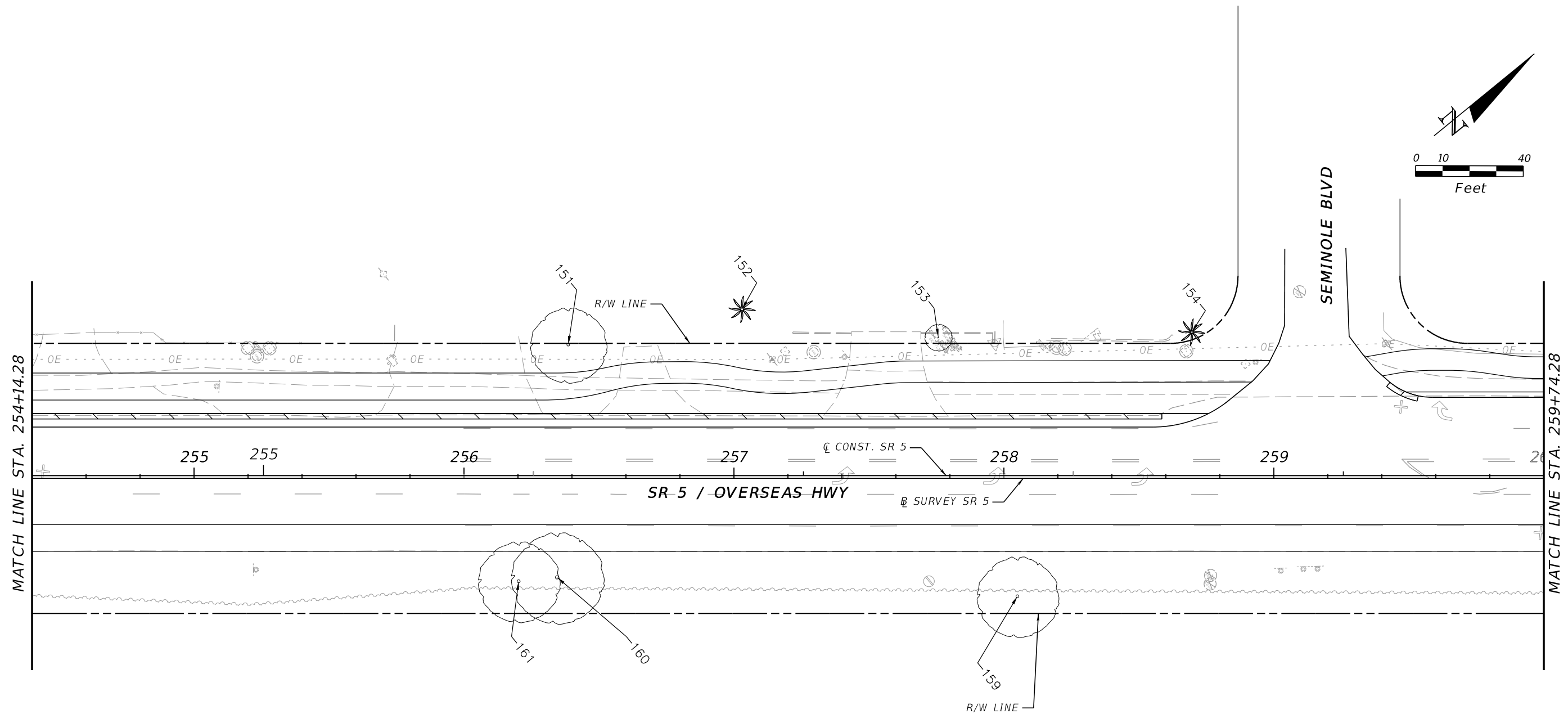
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	155

TREE DISPOSITION PLAN

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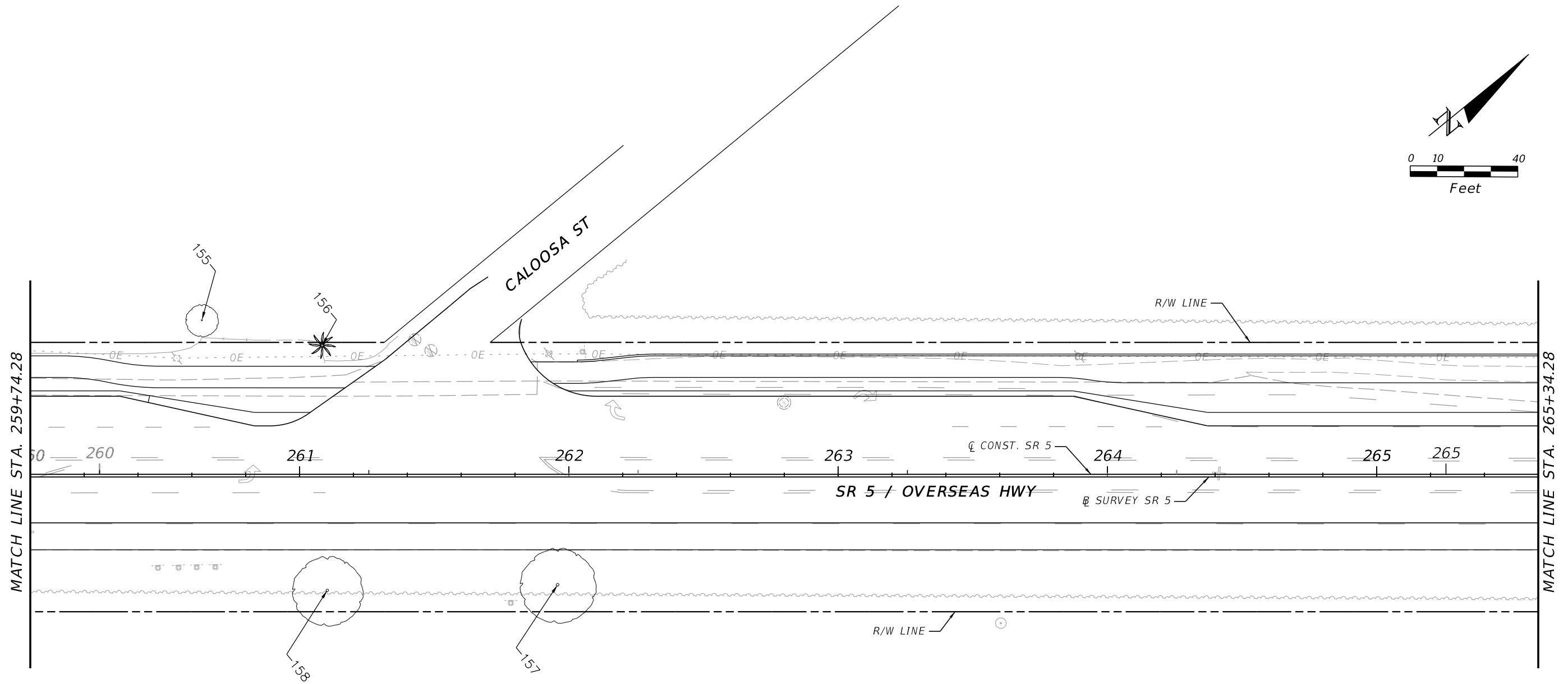
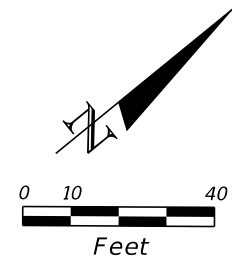


LEGEND

- XXX TREE TO REMAIN
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
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				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01		156

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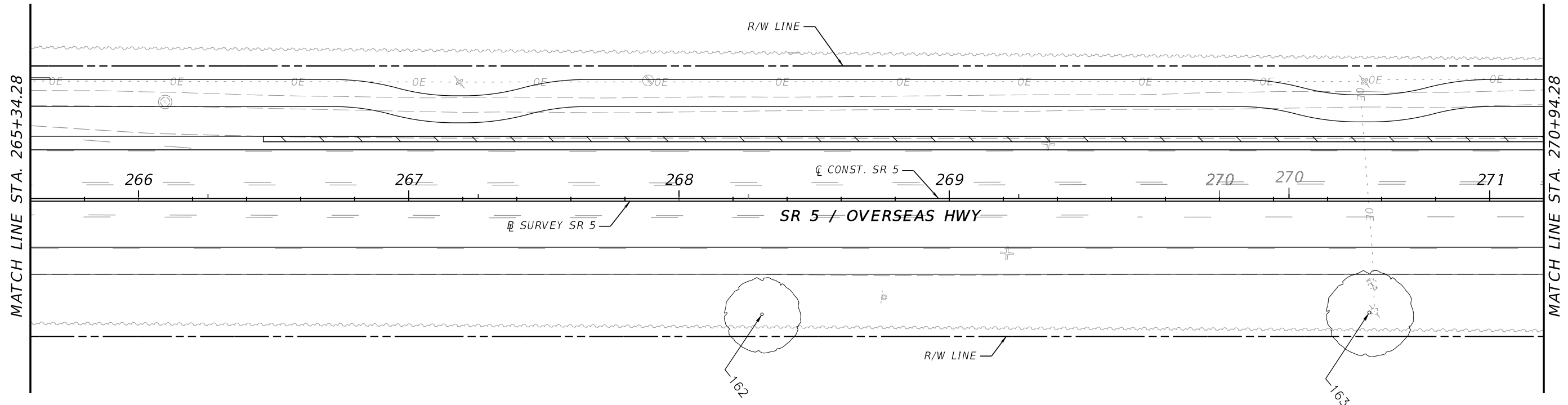
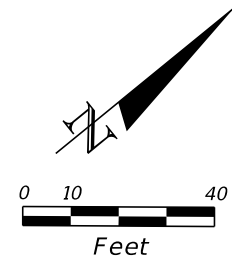
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		157
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01		



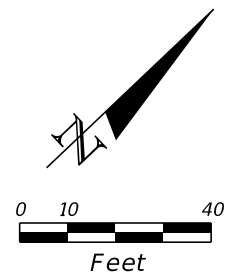
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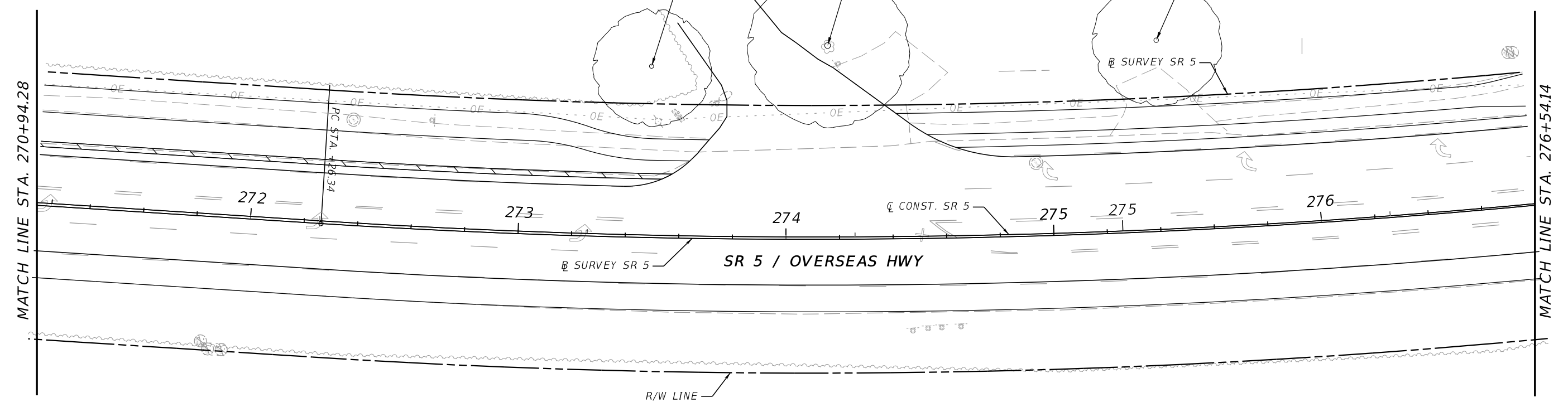
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REVISIONS				LANDSCAPE ARCHITECT		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		158
								SR 5		MONROE

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SAN PEDRO CATHOLIC CHURCH
 89500 OVERSEAS HWY
 TAVERNIER, FL 33070



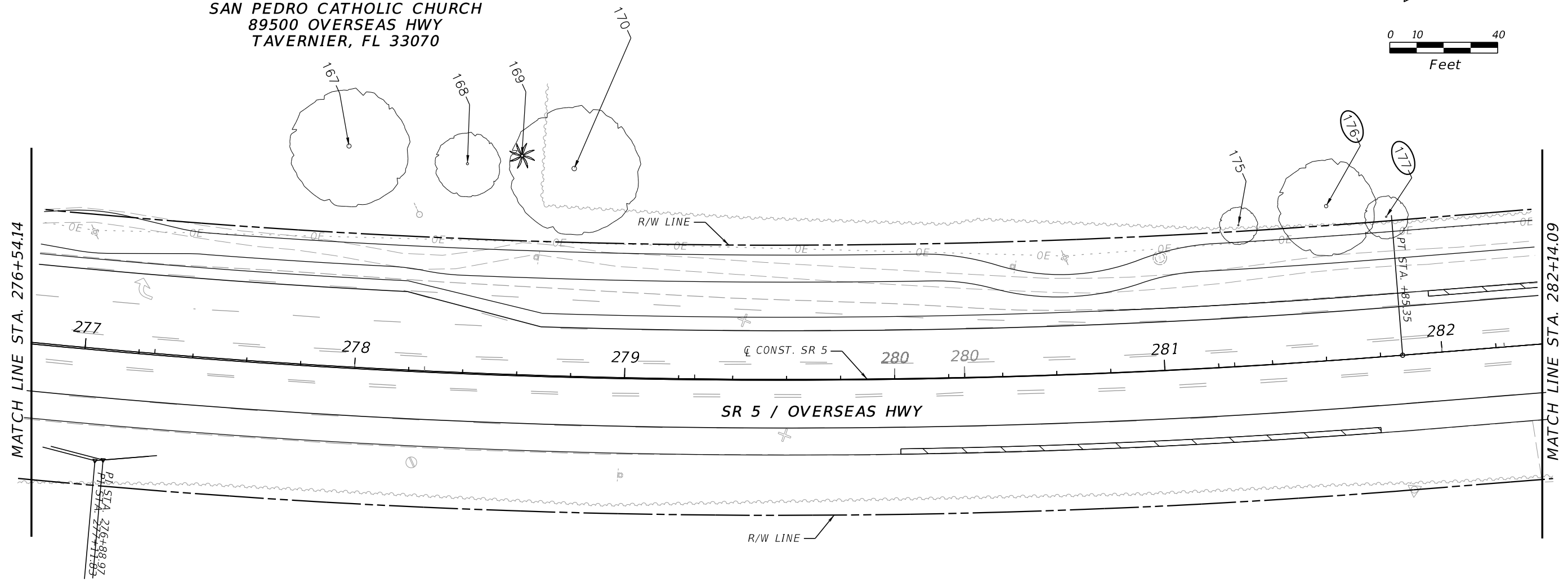
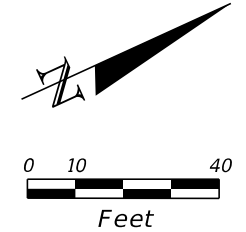
- LEGEND**
- XXX TREE TO REMAIN
 - (XXX) TREE TO BE RELOCATED
 - [XXX] TREE TO BE REMOVED
 - (XXX) TREE TO BE PRUNED

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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	159	

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SAN PEDRO CATHOLIC CHURCH
89500 OVERSEAS HWY
TAVERNIER, FL 33070

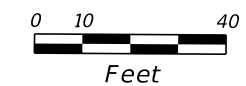


- LEGEND**
- XXX TREE TO REMAIN
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 - [XXX] TREE TO BE REMOVED
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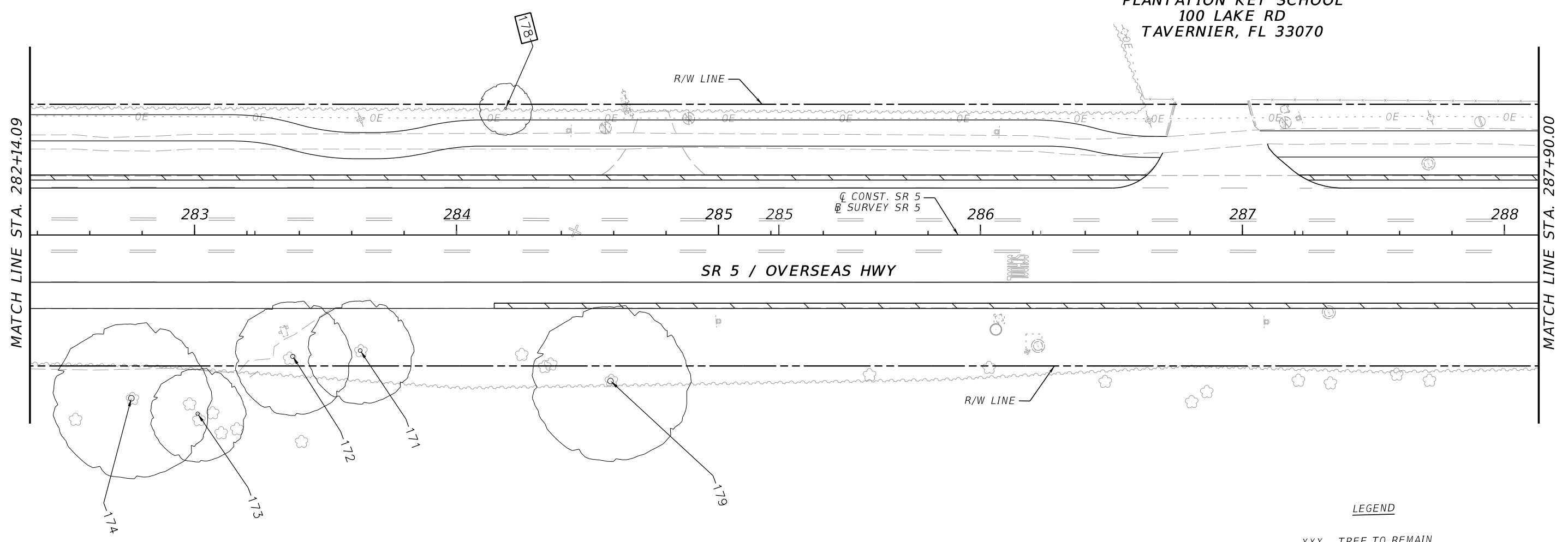
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	160	

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PLANTATION KEY SCHOOL
100 LAKE RD
TAVERNIER, FL 33070



- LEGEND**
- XXX TREE TO REMAIN
 - (XXX) TREE TO BE RELOCATED
 - [XXX] TREE TO BE REMOVED
 - (XXX) TREE TO BE PRUNED

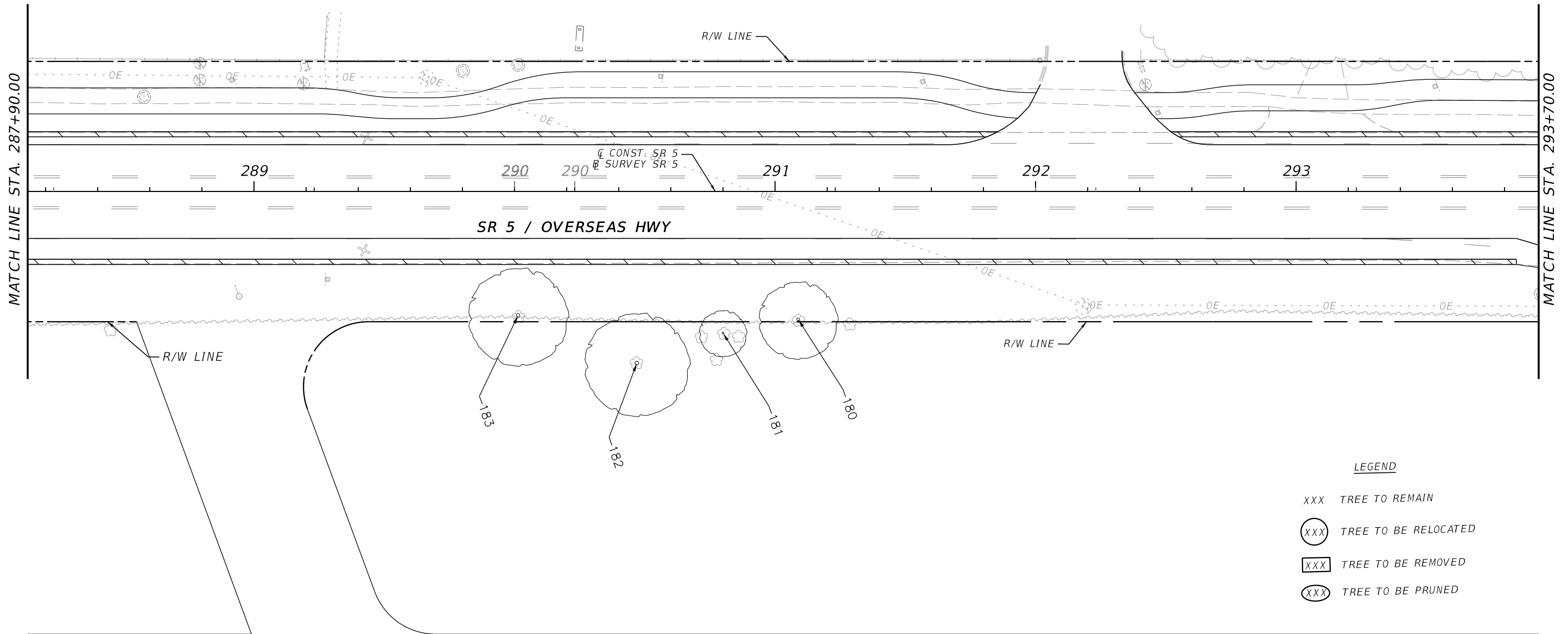
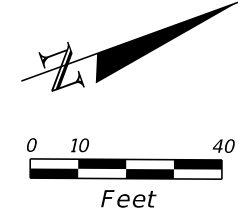
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	161

TREE DISPOSITION PLAN

PLANTATION KEY SCHOOL
 100 LAKE RD
 TAVERNIER, FL 33070



LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

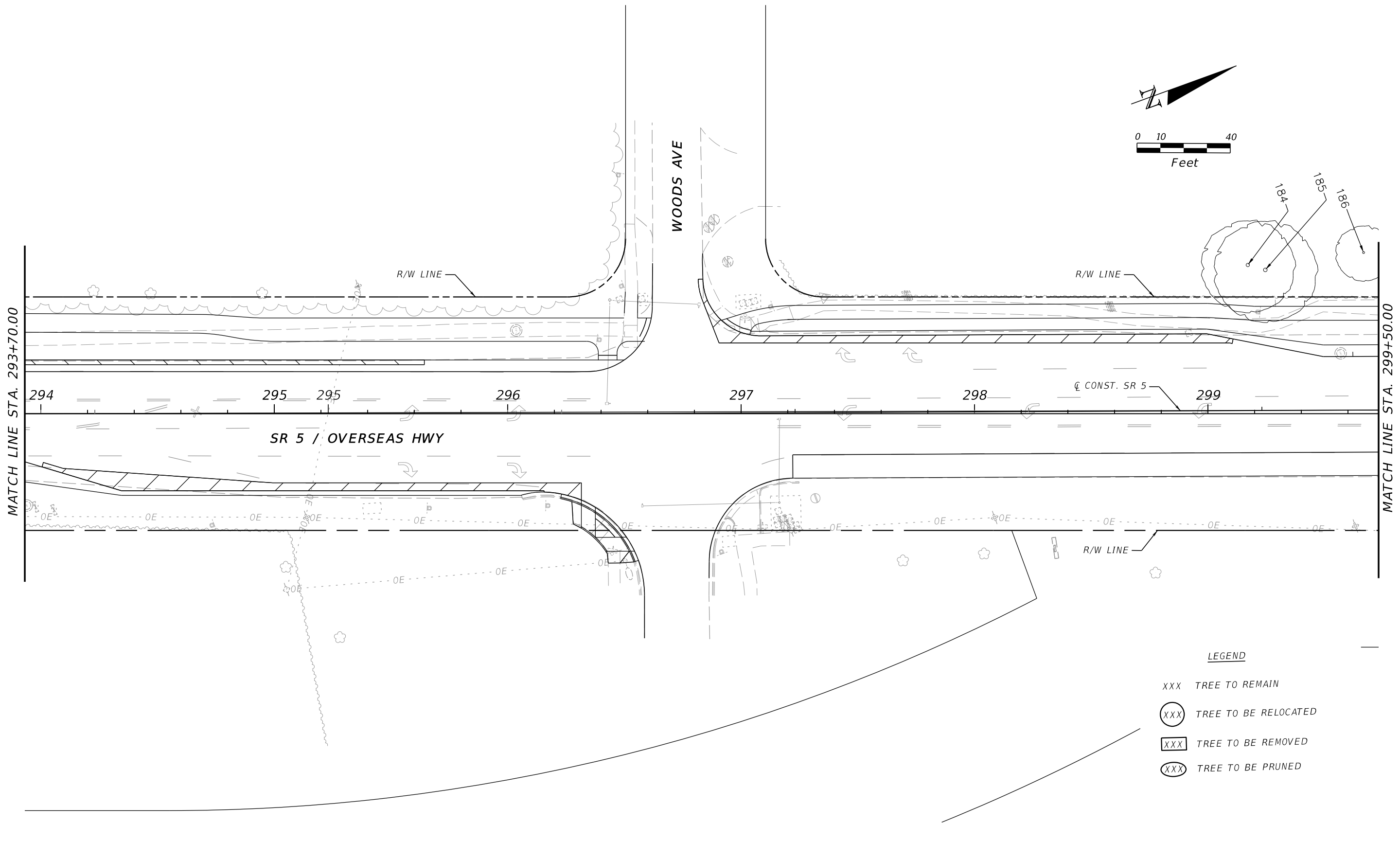
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REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	162

TREE DISPOSITION PLAN

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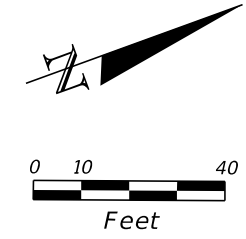


- LEGEND**
- XXX TREE TO REMAIN
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 - [XXX] TREE TO BE REMOVED
 - (XXX) TREE TO BE PRUNED

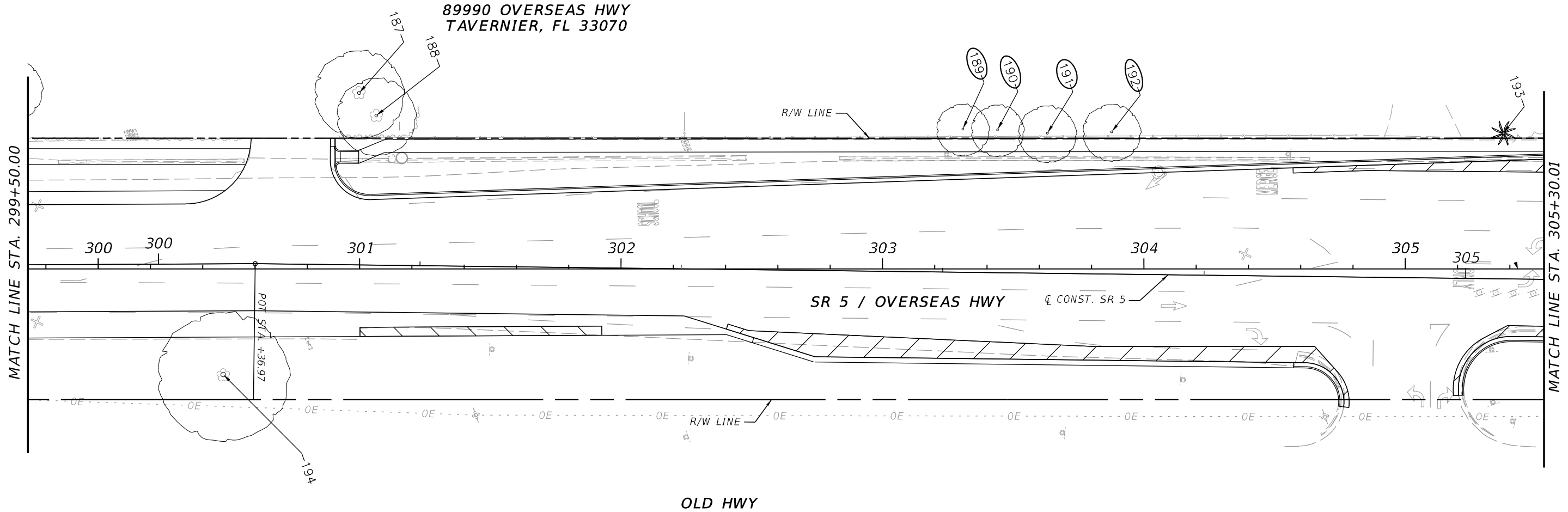
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01	163

TREE DISPOSITION PLAN

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89990 OVERSEAS HWY
TAVERNIER, FL 33070



LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- ⊗(XXX) TREE TO BE PRUNED

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

LANDSCAPE ARCHITECT
CASTO MIGUEL JUNCAL
LICENSE NUMBER LA-6667184
MILLER LEGG
1845 NW 112 AVE SUITE 211
MIAMI, FL 33172

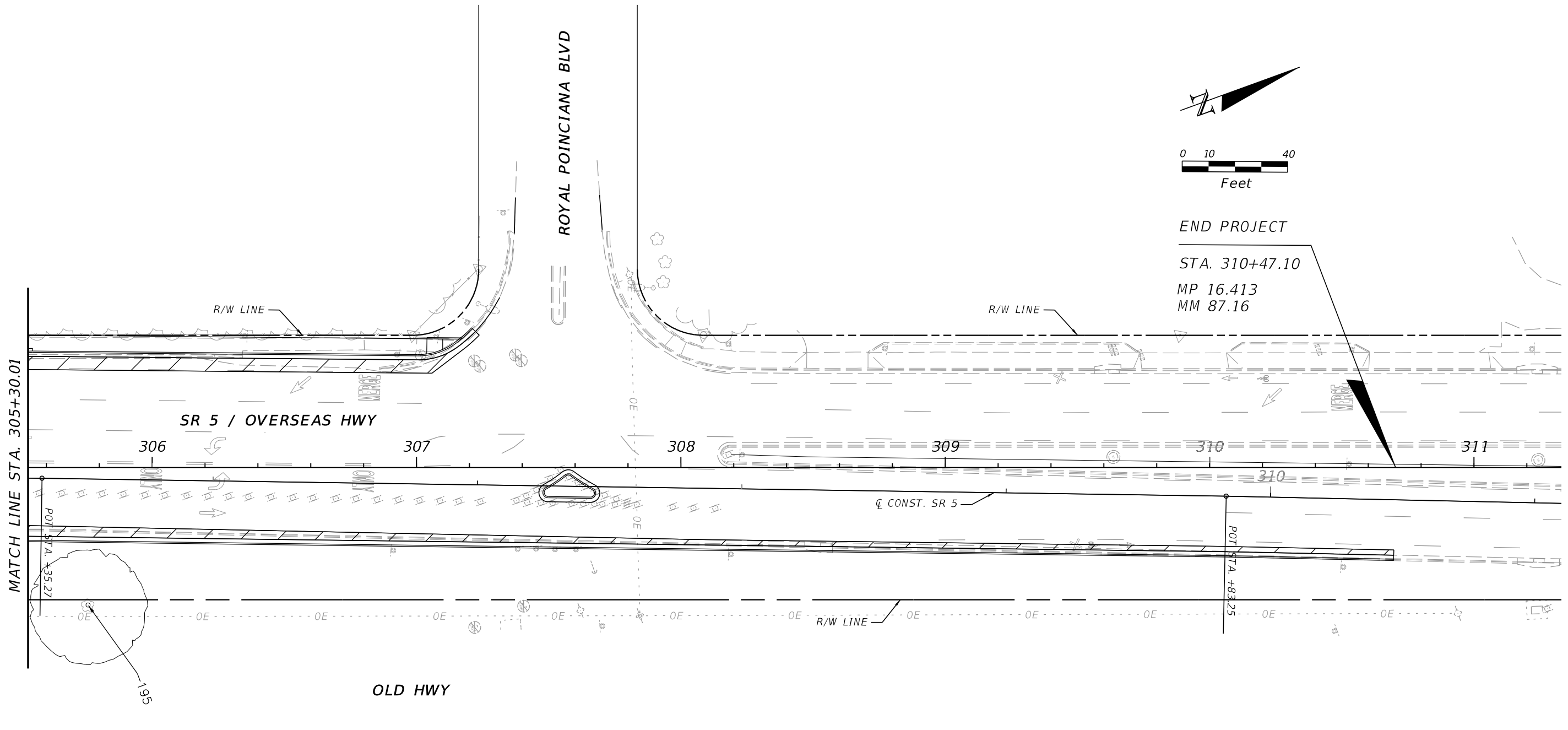
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	447810-1-52-01

TREE DISPOSITION PLAN

SHEET NO.
164

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LEGEND

- XXX TREE TO REMAIN
- (XXX) TREE TO BE RELOCATED
- [XXX] TREE TO BE REMOVED
- (XXX) TREE TO BE PRUNED

REVISIONS				LANDSCAPE ARCHITECT	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172	SR 5	MONROE	447810-1-52-01		165

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

TREE DISPOSITION CHART

*DESIGN VARIANCE ACCEPTANCE DATE: 00-00-0000

VERIFICATION DATE: 00-00-0000

SHEET NUMBER	TREE NO.	SYMBOL	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		CONDITION	DISPOSITION	NOTES
								NORTHING	EASTING			
137	1		<i>Conocarpus erectus</i>	Green Buttonwood	60	36	42	228607.84171305	800073.82440449	Poor	Remain	Bent Leader, Co-dominant Leaders, Limb Damage - Minor
137	2		<i>Bursera simaruba</i>	Gumbo limbo	24	26	36	228678.58310985	800131.30125873	Fair	PRUNE	Bent Leader, Co-dominant Leaders, Limb Damage - Minor, BRANCH PRUNE
138	3		<i>Sabal palmetto</i>	Cabbage Palm	10	24	12	228952.57167566	800332.19088385	Good	REMAIN	
138	4		<i>Sabal palmetto</i>	Cabbage Palm	12	24	12	228974.28775968	800350.10973369	Good	REMAIN	
138	5		<i>Sabal palmetto</i>	Cabbage Palm	14	26	12	229071.12043502	800428.32489371	Good	REMAIN	
139	6		<i>Ficus aurea</i>	Strangler fig	30	40	32	229261.5484798	800603.06845302	Fair	REMAIN	Limb Damage - Minor, Slight Lean, Trunk Damage - Minor
140	7		<i>Cordia sebestena</i>	Orange Geiger	8	24	20	229750.27403976	800870.98747467	Fair	REMOVE	Adjusted Power Lines, Limb Damage - Minor, Slight Lean
139	8		<i>Cocos nucifera</i>	Coconut Palm	10	18	16	229707.1444329	800831.34047483	Good	RELOCATE	Slight Lean
139	9		<i>Thrinax morrisii</i>	Thatch Palm	8	6	12	229698.87908859	800823.03408393	Good	RELOCATE	
139	10		<i>Thrinax morrisii</i>	Thatch Palm	10	6	12	229692.97061688	800817.85053658	Good	RELOCATE	
139	11		<i>Veitchia montgomeryana</i>	Montgomery Palm	8	10	6	229583.91922386	800731.09985821	Good	RELOCATE	
139	12		<i>Delonix regia</i>	Royal Poinciana	56	30	60	229554.70138734	800702.69987223	Fair	REMOVE	Bent Leader, Co-dominant Leaders, Limb Damage - Minor
139	13		<i>Bursera simaruba</i>	Gumbo limbo	14	34	30	229532.6553459	800681.11454204	Fair	REMOVE	Co-dominant Leaders, Limb Damage - Minor
139	14		<i>Conocarpus erectus</i>	Green Buttonwood	14	30	24	229524.82655511	800676.98260209	Fair	REMOVE	Adjusted Power Lines, Limb Damage - Minor
139	15		<i>Veitchia montgomeryana</i>	Montgomery Palm	6	6	6	229467.07711338	800632.32850787	Good	RELOCATE	
139	16		<i>Swietenia mahagoni</i>	Mahogany	23	28	40	229316.00731066	800513.0784165	Fair	REMOVE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
138	17		<i>Plumeria pudica</i>	Plumeria	14	22	20	229305.98599792	800498.07147464	Fair	PRUNE	Co-dominant Leaders, Slight Lean
138	18		<i>Simaruba glauca</i>	Paradise tree	16	24	36	229300.00563104	800486.6262885	Good	PRUNE	
138	19		<i>Conocarpus erectus</i>	Green Buttonwood	16	28	32	229266.18281793	800461.34797666	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
138	20		<i>Bursera simaruba</i>	Gumbo limbo	26	24	24	229226.83815235	800454.00013154	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders, Included Bark, Limb Damage - Minor
138	21		<i>Swietenia mahagoni</i>	Mahogany	14	24	20	229231.58045075	800436.15159326	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
138	22		<i>Swietenia mahagoni</i>	Mahogany	13	26	28	229217.15331395	800428.4181706	Fair	PRUNE	Adjusted Power Lines, Bent Leader, Limb Damage - Minor
138	23		<i>Simaruba glauca</i>	Paradise tree	16	26	28	229212.78249403	800420.85368544	Fair	PRUNE	Adjusted Power Lines, Bent Leader, Co-dominant Leaders
138	24		<i>Bursera simaruba</i>	Gumbo limbo	24	32	30	229207.79017656	800413.10745175	Fair	PRUNE	Adjusted Power Lines, Slight Lean
138	25		<i>Simaruba glauca</i>	Paradise tree	12	28	26	229198.29647187	800400.02282478	Good	REMAIN	Slight Lean
138	26		<i>Thrinax morrisii</i>	Thatch Palm	6	6	8	229085.13965705	800320.77975583	Good	REMAIN	
138	27		<i>Thrinax morrisii</i>	Thatch Palm	6	8	8	229042.05929905	800288.1571919	Good	REMAIN	

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REVISIONS		LANDSCAPE ARCHITECT																								
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID																								
SR 5	MONROE	447810-1-52-01																								

TREE DISPOSITION CHART

TREE DISPOSITION CHART

*DESIGN VARIANCE ACCEPTANCE DATE: 00-00-0000

VERIFICATION DATE: 00-00-0000

SHEET NUMBER	TREE NO.	SYMBOL	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		CONDITION	DISPOSITION	NOTES
								NORTHING	EASTING			
138	28		<i>Hyophorbe lagenicaulis</i>	Bottle palm	17	3	4	228905.2488284	800183.89224502	Good	REMAIN	
138	29		<i>Hyophorbe lagenicaulis</i>	Bottle palm	14	3	4	228894.33565401	800172.49065856	Good	REMAIN	
137	30		<i>Bursera simaruba</i>	Gumbo limbo	34	26	24	228634.29877006	799970.54595576	Fair	REMAIN	Adjusted Light Pole, Co-dominant Leaders, Included Bark
141	31		<i>Eugenia rhombea</i>	Red stopper	8	14	12	230259.32791569	801406.95233189	Fair	REMAIN	Co-dominant Leaders
141	32		<i>Bursera simaruba</i>	Gumbo limbo	18	28	26	230206.09824605	801371.52417007	Poor	REMAIN	Apical Dieback, Co-dominant Leaders, Limb Damage - Major
140	33		<i>Cocos nucifera</i>	Coconut Palm	11	20	16	230111.09539806	801279.4177823	Good	REMAIN	Yellow Fronds
140	34		<i>Cocos nucifera</i>	Coconut Palm	9	18	16	230104.71628421	801277.78625933	Fair	REMAIN	Bent Leader, Yellow Fronds
140	35		<i>Cocos nucifera</i>	Coconut Palm	9	12	14	230034.09337537	801229.1538428	Good	REMAIN	
140	36		<i>Cocos nucifera</i>	Coconut Palm	7	6	14	230023.7764252	801214.43609748	Good	REMAIN	Bent Leader
140	37		<i>Cocos nucifera</i>	Coconut Palm	9	16	14	229972.05739074	801175.29143049	Fair	REMAIN	Bent Leader
140	38		<i>Cocos nucifera</i>	Coconut Palm	9	20	16	229929.40996856	801142.18354485	Good	REMAIN	
140	39		<i>Cocos nucifera</i>	Coconut Palm	6	6	14	229910.79372616	801124.91611548	Good	REMAIN	Bent Leader
140	40		<i>Cocos nucifera</i>	Coconut Palm	8	10	14	229888.71596761	801103.97427248	Good	REMAIN	
140	41		<i>Cocos nucifera</i>	Coconut Palm	8	18	16	229885.19410107	801100.88971503	Good	REMAIN	
140	42		<i>Cocos nucifera</i>	Coconut Palm	8	18	16	229871.12619832	801087.35124574	Good	REMAIN	
140	43		<i>Bursera simaruba</i>	Gumbo limbo	6	18	14	229849.58158722	800943.13491824	Fair	REMOVE	Adjusted Power Lines, Limb Damage - Major
140	44		<i>Swietenia mahagoni</i>	Mahogany	24	32	30	229865.38037001	800949.66731691	Fair	REMOVE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
140	45		<i>Bursera simaruba</i>	Gumbo limbo	12	18	16	229932.15875009	801007.66470654	Fair	REMOVE	Adjusted Power Lines, Limb Damage - Minor
140	46		<i>Bursera simaruba</i>	Gumbo limbo	5	14	12	230055.57627912	801111.84381918	Good	RELOCATE	
140	47		<i>Cocoloba uvifera</i>	Sea Grape	14	20	20	230148.35131976	801184.4468874	Fair	REMOVE	Limb Damage - Minor, Topiary
141	48		<i>Swietenia mahagoni</i>	Mahogany	10	20	24	230201.07909713	801230.46113364	Poor	REMOVE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Major
141	49		<i>Ficus aurea</i>	Strangler fig	34	24	30	230304.78861639	801312.44309775	Poor	REMOVE	Adjusted Light Pole, Adjusted Power Lines, Limb Damage - Major
141	50		<i>Ficus spp.</i>	Ficus	36	26	34	230392.78438048	801371.79847612	Fair	REMOVE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
141	51		<i>Swietenia mahagoni</i>	Mahogany	10	20	20	230426.22426769	801411.59833749	Poor	REMOVE	Adjusted Power Lines, Bent Leader, Co-dominant Leaders
141	52		<i>Swietenia mahagoni</i>	Mahogany	14	20	24	230497.57484751	801467.1710089	Poor	REMOVE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Major
141	53		<i>Swietenia mahagoni</i>	Mahogany	14	20	22	230519.20645688	801490.99657084	Poor	REMOVE	Adjusted Power Lines, Bent Leader, Limb Damage - Major
142	54		<i>Cocos nucifera</i>	Coconut Palm	12	24	16	230646.89115544	801584.91107761	Good	RELOCATE	

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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th colspan="2">LANDSCAPE ARCHITECT</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS		LANDSCAPE ARCHITECT		DATE	DESCRIPTION	DATE	DESCRIPTION					STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>SR 5</td> <td>MONROE</td> <td>447810-1-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 5	MONROE	447810-1-52-01	TREE DISPOSITION CHART SHEET NO. 167
REVISIONS		LANDSCAPE ARCHITECT																							
DATE	DESCRIPTION	DATE	DESCRIPTION																						
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																							
SR 5	MONROE	447810-1-52-01																							

TREE DISPOSITION CHART

*DESIGN VARIANCE ACCEPTANCE DATE: 00-00-0000

VERIFICATION DATE: 00-00-0000

SHEET NUMBER	TREE NO.	SYMBOL	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		CONDITION	DISPOSITION	NOTES
								NORTHING	EASTING			
142	55		<i>Cocos nucifera</i>	Coconut Palm	8	14	16	230664.47669456	801597.94707667	Good	RELOCATE	
142	56		<i>Cocos nucifera</i>	Coconut Palm	10	18	16	230699.95530421	801627.63274338	Good	RELOCATE	
142	57		<i>Cocos nucifera</i>	Coconut Palm	10	10	16	230715.79836371	801638.69203322	Good	RELOCATE	
142	58		<i>Cocos nucifera</i>	Coconut Palm	14	30	16	230729.645404	801644.96753328	Good	RELOCATE	
142	59		<i>Swietenia mahagoni</i>	Mahogany	36	32	34	230745.78294555	801667.07507264	Fair	REMOVE	Adjusted Power Lines, Bent Leader, Co-dominant Leaders
142	60		<i>Delonix regia</i>	Royal Poinciana	26	32	30	230744.83443264	801680.58718989	Fair	REMOVE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
142	61		<i>Delonix regia</i>	Royal Poinciana	18	28	30	230779.90762612	801705.44755238	Fair	REMOVE	Adjusted Power Lines, Bent Leader, Co-dominant Leaders
142	62		<i>Delonix regia</i>	Royal Poinciana	22	28	30	230797.20218575	801722.99315542	Fair	REMOVE	Adjusted Power Lines, Limb Damage - Minor, Slight Lean
142	63		<i>Bursera simaruba</i>	Gumbo limbo	20	26	32	230810.03538443	801730.69155686	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
142	64		<i>Bursera simaruba</i>	Gumbo limbo	22	28	30	230820.78502835	801737.52867845	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
142	65		<i>Cocoloba uvifera</i>	Sea Grape	16	26	30	230823.13032269	801741.15652197	Fair	PRUNE	Bent Leader, Co-dominant Leaders
142	66		<i>Bursera simaruba</i>	Gumbo limbo	16	12	10	230831.39595324	801750.2743433	Very Poor	PRUNE	Limb Damage - Major, Trunk Damage - Major
142	67		<i>Delonix regia</i>	Royal Poinciana	24	30	36	230836.8330601	801754.09069585	Fair	PRUNE	Adjusted Power Lines, Bent Leader, Co-dominant Leaders
142	68		<i>Krugiodendron ferreum</i>	Ironwood	8	20	12	230884.99026393	801790.28737931	Good	RELOCATE	
142	69		<i>Bursera simaruba</i>	Gumbo limbo	24	28	34	230909.08496907	801808.29279493	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders
142	70		<i>Bursera simaruba</i>	Gumbo limbo	8	12	10	231002.7959558	801885.72325291	Very Poor	REMAIN	Apical Dieback, Limb Damage - Major, Trunk Damage - Major
142	71		<i>Bursera simaruba</i>	Gumbo limbo	24	30	36	230692.34561891	801745.65192632	Fair	REMAIN	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
142	72		<i>Ficus aurea</i>	Strangler fig	36	44	40	230687.62192689	801742.37845624	Fair	REMAIN	Bent Leader, Co-dominant Leaders, Trunk Damage - Minor
142	73		<i>Swietenia mahagoni</i>	Mahogany	32	48	40	230595.52538061	801690.50843574	Fair	REMAIN	Co-dominant Leaders
142	74		<i>Bursera simaruba</i>	Gumbo limbo	14	32	30	230570.97800934	801655.22808165	Fair	REMAIN	Lopsided, Slight Lean
143	75		<i>Ficus spp.</i>	<i>Ficus</i>	48	50	60	231126.58437967	802107.42463921	Fair	PRUNE	Co-dominant Leaders, Limb Damage - Minor
143	76		<i>Simarouba glauca</i>	Paradise tree	6	20	18	231196.52244761	802051.76562106	Fair	REMOVE	Adjusted Power Lines, Limb Damage - Minor, Lopsided
143	77		<i>Bursera simaruba</i>	Gumbo limbo	10	18	16	231235.7786986	802079.58529311	Poor	REMOVE	Adjusted Power Lines, Bent Leader, Limb Damage - Minor
143	78		<i>Bursera simaruba</i>	Gumbo limbo	10	20	18	231246.07975926	802087.82574472	Fair	REMOVE	Adjusted Power Lines, Bent Leader, Co-dominant Leaders
144	79		<i>Cocoloba uvifera</i>	Sea Grape	10	20	16	231563.78526037	802348.86110605	Fair	REMAIN	Co-dominant Leaders
144	80		<i>Cocoloba uvifera</i>	Sea Grape	10	20	16	231689.50477094	802437.33461032	Good	REMAIN	
144	81		<i>Swietenia mahagoni</i>	Mahogany	14	24	20	231698.66955234	802445.539815	Fair	REMAIN	Adjusted Power Lines, Bent Leader, Limb Damage - Minor

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REVISIONS				LANDSCAPE ARCHITECT			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION CHART	SHEET NO. 168
DATE	DESCRIPTION	DATE	DESCRIPTION	CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 5	MONROE	447810-1-52-01		

TREE DISPOSITION CHART

*DESIGN VARIANCE ACCEPTANCE DATE: 00-00-0000

VERIFICATION DATE: 00-00-0000

SHEET NUMBER	TREE NO.	SYMBOL	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		CONDITION	DISPOSITION	NOTES
								NORTHING	EASTING			
144	82		Bursera simaruba	Gumbo limbo	18	30	30	231751.68867662	802481.36850652	Fair	REMAIN	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Minor
144	83		Cordia sebestena	Orange Geiger	2	8	6	231762.35067324	802504.29675974	Good	REMAIN	
145	84		Bursera simaruba	Gumbo limbo	6	16	14	232153.56270185	802822.808425	Fair	REMAIN	Adjusted Power Lines, Bent Leader, Limb Damage - Minor
145	85		Bursera simaruba	Gumbo limbo	14	24	26	232174.75486187	802838.99202639	Fair	PRUNE	Co-dominant Leaders, Limb Damage - Minor
145	86		Coccoloba diversifolia	Pigeon Plum	12	22	20	232180.47643577	802848.7036251	Fair	PRUNE	Co-dominant Leaders, Limb Damage - Minor
145	87		Bursera simaruba	Gumbo limbo	16	24	24	232184.720787	802851.63778104	Fair	PRUNE	Adjusted Power Lines, Bent Leader
145	88		Bursera simaruba	Gumbo limbo	16	22	28	232220.23029636	802874.16784655	Fair	PRUNE	Adjusted Power Lines, Bent Leader, Limb Damage - Minor
145	89		Coccoloba diversifolia	Pigeon Plum	10	18	20	232221.85595467	802877.75946001	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders
145	90		Tamarindus indica	Tamarind	20	34	30	232260.2821329	802906.98686708	Fair	PRUNE	Adjusted Power Lines, Bent Leader
145	91		Delonix regia	Royal Poinciana	26	36	60	232291.59557129	802926.00581799	Fair	PRUNE	Bent Leader, Co-dominant Leaders
145	92		Veitchia montgomeryana	Montgomery Palm	9	14	16	232292.3182363	802934.5493184	Good	REMAIN	
146	93		Bursera simaruba	Gumbo limbo	12	24	20	232378.29738249	803001.78862244	Fair	REMAIN	Adjusted Power Lines, Co-dominant Leaders
146	94		Bursera simaruba	Gumbo limbo	10	22	20	232423.41124938	803040.26413968	Fair	REMAIN	Adjusted Power Lines, Bent Leader, Co-dominant Leaders
146	95		Bursera simaruba	Gumbo limbo	14	18	20	232523.28084596	803121.92182183	Fair	REMAIN	Adjusted Power Lines, Bent Leader, Limb Damage - Minor
146	96		Swietenia mahagoni	Mahogany	14	40	36	232434.02680469	803171.90694211	Good	REMAIN	Limb Damage - Minor, Lopsided
146	97		Bursera simaruba	Gumbo limbo	12	34	30	232416.74531248	803157.43939849	Fair	REMAIN	Co-dominant Leaders, Trunk Damage - Minor
146	98		Swietenia mahagoni	Mahogany	12	30	26	232409.92516791	803154.3551089	Fair	REMAIN	Limb Damage - Minor, Slight Lean
146	99		Tamarindus indica	Tamarind	42	60	80	232354.66884497	803112.0393517	Fair	PRUNE	Co-dominant Leaders, Limb Damage - Minor
146	100		Bursera simaruba	Gumbo limbo	12	24	20	232334.309605	803085.00230186	Poor	REMAIN	Bent Leader, Limb Damage - Major, Trunk Damage - Major
146	101		Coccoloba diversifolia	Pigeon Plum	5	16	14	232313.25569338	803068.14907566	Good	REMAIN	Slight Lean
145	102		Cocos nucifera	Coconut Palm	10	8	16	232230.76851357	803003.3669779	Good	REMAIN	
145	103		Cocos nucifera	Coconut Palm	10	8	16	232227.7171915	803001.8348352	Good	REMAIN	
145	104		Delonix regia	Royal Poinciana	24	28	36	232022.68082407	802832.50887938	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor, Slight Lean
146	105		Bursera simaruba	Gumbo limbo	10	26	26	232717.70109504	803403.76295792	Fair	REMAIN	Limb Damage - Minor, Lopsided, Slight Lean
147	106		Swietenia mahagoni	Mahogany	36	24	30	233659.04440701	804058.83515106	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders
148	107		Bursera simaruba	Gumbo limbo	30	40	42	234315.24063164	804727.12813632	Fair	REMAIN	Bent Leader
148	108		Bursera simaruba	Gumbo limbo	26	38	40	234300.72378392	804715.92374618	Good	REMAIN	

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REVISIONS				LANDSCAPE ARCHITECT			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION CHART	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 5	MONROE	447810-1-52-01		169

TREE DISPOSITION CHART

*DESIGN VARIANCE ACCEPTANCE DATE: 00-00-0000

VERIFICATION DATE: 00-00-0000

SHEET NUMBER	TREE NO.	SYMBOL	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		CONDITION	DISPOSITION	NOTES
								NORTHING	EASTING			
148	109		<i>Cocos nucifera</i>	Coconut Palm	12	36	18	234246.43366857	804659.65730998	Good	REMAIN	
148	110		<i>Cocos nucifera</i>	Coconut Palm	12	34	18	234246.93368295	804654.4616205	Good	REMAIN	
148	111		<i>Swietenia mahagoni</i>	Mahogany	9	18	12	234343.80153842	804611.06501062	Very Poor	REMAIN	Adjusted Power Lines, Limb Damage - Major
148	112		<i>Swietenia mahagoni</i>	Mahogany	10	18	12	234346.2663689	804612.7029374	Very Poor	REMAIN	Adjusted Power Lines, Limb Damage - Major
148	113		<i>Krugiodendron ferreum</i>	Ironwood	10	16	12	234385.91922573	804639.0701568	Fair	REMAIN	Adjusted Power Lines
149	114		<i>Swietenia mahagoni</i>	Mahogany	16	48	36	234637.67252924	804967.60250855	Good	REMAIN	Limb Damage - Minor
149	115		<i>Bursera simaruba</i>	Gumbo limbo	14	36	32	234656.41658872	804979.07755978	Good	REMAIN	Bent Leader
149	116		<i>Swietenia mahagoni</i>	Mahogany	16	40	36	234713.5436944	805023.96186078	Good	REMAIN	
149	117		<i>Swietenia mahagoni</i>	Mahogany	18	40	36	234734.12936134	805039.69162505	Good	REMAIN	
150	118		<i>Tamarindus indica</i>	Tamarind	36	42	40	234929.12203088	805209.16082787	Fair	REMAIN	Bent Leader, Limb Damage - Minor
150	119		<i>Tamarindus indica</i>	Tamarind	42	54	60	234900.79312298	805186.3242978	Fair	PRUNE	Bent Leader, Co-dominant Leaders
149	120		<i>Bursera simaruba</i>	Gumbo limbo	16	36	40	234896.2759674	805179.20923154	Fair	REMAIN	Bent Leader, Co-dominant Leaders, Limb Damage - Minor
149	121		<i>Swietenia mahagoni</i>	Mahogany	36	48	50	234872.24047561	805163.2303804	Good	REMAIN	
149	122		<i>Swietenia mahagoni</i>	Mahogany	20	36	42	234863.16345153	805153.95403148	Good	REMAIN	
149	123		<i>Swietenia mahagoni</i>	Mahogany	18	40	38	234840.0722168	805138.13834023	Fair	REMAIN	Bent Leader, Limb Damage - Minor
149	124		<i>Swietenia mahagoni</i>	Mahogany	40	42	54	234820.23823889	805120.82324389	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
149	125		<i>Swietenia mahagoni</i>	Mahogany	28	36	48	234756.23914217	805069.77032792	Good	REMAIN	
149	126		<i>Bursera simaruba</i>	Gumbo limbo	26	42	40	234982.3584585	805254.06285245	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
149	127		<i>Bursera simaruba</i>	Gumbo limbo	14	36	43	235037.36235343	805302.55698979	Good	REMAIN	
149	128		<i>Bursera simaruba</i>	Gumbo limbo	14	36	34	235040.53931552	805304.66564267	Poor	REMAIN	Trunk Damage - Major
149	129		<i>Bursera simaruba</i>	Gumbo limbo	16	40	34	235056.0552343	805311.72518505	Good	REMAIN	
150	130		<i>Bursera simaruba</i>	Gumbo limbo	14	36	30	235391.85545471	805590.74648562	Good	REMAIN	
150	131		<i>Bursera simaruba</i>	Gumbo limbo	20	34	30	235413.85275128	805609.31969746	Good	REMAIN	
150	132		<i>Bursera simaruba</i>	Gumbo limbo	22	36	28	235664.93096529	805793.39980147	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
150	133		<i>Swietenia mahagoni</i>	Mahogany	34	48	48	235651.48014914	805780.59026557	Fair	REMAIN	Limb Damage - Minor, Slight Lean
150	134		<i>Swietenia mahagoni</i>	Mahogany	16	28	30	235611.01342228	805756.38952107	Fair	REMAIN	Bent Leader
150	135		<i>Swietenia mahagoni</i>	Mahogany	22	30	32	235588.22574742	805730.6806246	Fair	REMAIN	Bent Leader, Limb Damage - Minor

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REVISIONS		LANDSCAPE ARCHITECT																	
DATE	DESCRIPTION	DATE	DESCRIPTION																
CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172				TREE DISPOSITION CHART															

TREE DISPOSITION CHART

*DESIGN VARIANCE ACCEPTANCE DATE: 00-00-0000

VERIFICATION DATE: 00-00-0000

SHEET NUMBER	TREE NO.	SYMBOL	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		CONDITION	DISPOSITION	NOTES
								NORTHING	EASTING			
150	136		<i>Swietenia mahagoni</i>	Mahogany	42	38	60	235703.85447967	805695.99382308	Fair	REMAIN	Bent Leader, Co-dominant Leaders
150	137		<i>Phoenix canariensis</i>	Canary Island Date Palm	18	10	16	235716.41389274	805707.48013102	Good	REMAIN	
150	138		<i>Swietenia mahagoni</i>	Mahogany	28	48	60	235740.36265296	805719.52504019	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
150	139		<i>Bursera simaruba</i>	Gumbo limbo	17	24	20	235760.53359241	805763.79802884	Poor	REMAIN	Adjusted Power Lines, Limb Damage - Minor
150	140		<i>Swietenia mahagoni</i>	Mahogany	14	26	24	235778.68736702	805782.34737028	Fair	REMAIN	Adjusted Power Lines, Co-dominant Leaders
151	141		<i>Swietenia mahagoni</i>	Mahogany	16	30	30	235837.54064902	805822.04347992	Fair	REMAIN	Adjusted Power Lines
151	142		<i>Bursera simaruba</i>	Gumbo limbo	26	28	30	235875.73454768	805855.07878199	Good	REMAIN	Co-dominant Leaders, Included Bark, Limb Damage - Minor
151	143		<i>Delonix regia</i>	Royal Poinciana	32	30	48	235979.15691688	805942.08981473	Fair	PRUNE	Adjusted Power Lines, Co-dominant Leaders
151	144		<i>Delonix regia</i>	Royal Poinciana	14	24	36	236006.15306413	805967.7694487	Good	PRUNE	
151	145		<i>Delonix regia</i>	Royal Poinciana	16	26	36	236028.14145853	805979.07580479	Good	PRUNE	
152	146		<i>Bursera simaruba</i>	Gumbo limbo	36	38	34	236425.93114579	806430.35788257	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
152	147		<i>Bursera simaruba</i>	Gumbo limbo	40	40	36	236400.52253814	806402.26857441	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor, Slight Lean
152	148		<i>Bursera simaruba</i>	Gumbo limbo	38	40	38	236392.17657588	806402.02947708	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor, Slight Lean
152	149		<i>Bursera simaruba</i>	Gumbo limbo	15	32	30	236335.83645002	806361.75198426	Good	REMAIN	
152	150		<i>Bursera simaruba</i>	Gumbo limbo	38	42	38	236331.31244949	806358.16048854	Fair	REMAIN	Bent Leader, Co-dominant Leaders, Limb Damage - Minor
153	151		<i>Bursera simaruba</i>	Gumbo limbo	26	30	28	236844.63325433	806655.09601572	Poor	REMAIN	Adjusted Power Lines, Bent Leader, Lopsided
153	152		<i>Sabal palmetto</i>	Cabbage Palm	12	28	12	236902.71894743	806685.67516023	Good	REMAIN	
153	153		<i>Bursera simaruba</i>	Gumbo limbo	4	12	10	236952.570939	806739.65687203	Good	REMAIN	
153	154		<i>Phoenix canariensis</i>	Canary Island Date Palm	14	18	18	237029.37738878	806798.77748315	Good	REMAIN	
154	155		<i>Bursera simaruba</i>	Gumbo limbo	8	14	12	237178.97635842	806926.13436729	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
154	156		<i>Sabal palmetto</i>	Cabbage Palm	10	8	12	237211.30147328	806953.22468742	Good	REMAIN	
154	157		<i>Swietenia mahagoni</i>	Mahogany	28	36	28	237219.79337862	807076.69601053	Good	REMAIN	
154	158		<i>Coccoloba diversifolia</i>	Pigeon Plum	8	28	26	237152.20444349	807024.22938837	Good	REMAIN	
153	159		<i>Bursera simaruba</i>	Gumbo limbo	32	36	30	236914.66872782	806832.47084079	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
153	160		<i>Swietenia mahagoni</i>	Mahogany	16	38	34	236786.9745141	806719.25168886	Fair	REMAIN	Bent Leader, Limb Damage - Minor
153	161		<i>Bursera simaruba</i>	Gumbo limbo	14	32	30	236775.02546852	806711.37624682	Good	REMAIN	
155	162		<i>Bursera simaruba</i>	Gumbo limbo	14	30	28	237710.56900036	807479.46290283	Good	REMAIN	

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REVISIONS				LANDSCAPE ARCHITECT		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION				FINANCIAL PROJECT ID			
				CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172				SR 5		MONROE
TREE DISPOSITION CHART										

TREE DISPOSITION CHART

*DESIGN VARIANCE ACCEPTANCE DATE: 00-00-0000

VERIFICATION DATE: 00-00-0000

SHEET NUMBER	TREE NO.	SYMBOL	BOTANICAL NAME	COMMON NAME	DBH (IN.) FOR TREES/ CTH (FT.) FOR PALMS	HEIGHT (FT.) (APPROX.)	CANOPY SPREAD (FT.) (APPROX.)	LOCATION		CONDITION	DISPOSITION	NOTES
								NORTHING	EASTING			
156	164		<i>Swietenia mahagoni</i>	Mahogany	26	39	44	238178.15756707	807721.02139589	Fair	REMAIN	Bent Leader, Limb Damage - Minor, Lopsided
156	165		<i>Swietenia mahagoni</i>	Mahogany	30	44	60	238241.29763087	807751.94557338	Fair	REMAIN	Bent Leader, Limb Damage - Minor
156	166		<i>Swietenia mahagoni</i>	Mahogany	54	50	48	238337.07208936	807822.56781115	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
157	167		<i>Swietenia mahagoni</i>	Mahogany	32	36	44	238553.7239572	807937.25466179	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
157	168		<i>Swietenia mahagoni</i>	Mahogany	16	30	24	238590.85033762	807961.45133943	Very Poor	REMAIN	Apical Dieback, Limb Damage - Major, Trunk Damage - Major
157	169		<i>Bismarckia nobilis</i>	Bismark Palm	16	12	20	238610.384404	807967.16310929	Good	REMAIN	
157	170		<i>Swietenia mahagoni</i>	Mahogany	42	36	48	238626.03667619	807979.49240609	Poor	REMAIN	Apical Dieback, Co-dominant Leaders, Limb Damage - Major
158	171		<i>Tamarindus indica</i>	Tamarind	16	44	40	239035.36801098	808267.63286425	Good	REMAIN	
158	172		<i>Tamarindus indica</i>	Tamarind	30	46	44	239003.19943421	808265.41674218	Fair	REMAIN	Bent Leader, Limb Damage - Minor
158	173		<i>Tamarindus indica</i>	Tamarind	14	38	36	238967.82524072	808266.50265995	Good	REMAIN	
158	174		<i>Tamarindus indica</i>	Tamarind	36	48	60	238950.55791794	808259.98864745	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
157	175		<i>Swietenia mahagoni</i>	Mahogany	8	20	14	238839.77316648	808102.50109297	Poor	REMAIN	Adjusted Power Lines, Co-dominant Leaders, Limb Damage - Major
157	176		<i>Tamarindus indica</i>	Tamarind	17	24	36	238873.24487552	808107.90073575	Poor	PRUNE	Adjusted Power Lines, Bent Leader
157	177		<i>Bursera simaruba</i>	Gumbo limbo	6	20	16	238891.80888528	808120.73445033	Poor	PRUNE	Adjusted Power Lines, Limb Damage - Major
158	178		<i>Simaruba glauca</i>	Paradise tree	10	20	20	239111.96865844	808204.08156558	Fair	REMOVE	Adjusted Power Lines, Co-dominant Leaders
158	179		<i>Tamarindus indica</i>	Tamarind	40	50	60	239115.12100186	808308.74759758	Good	REMAIN	
159	180		<i>Simaruba glauca</i>	Paradise tree	16	38	30	239730.05271078	808529.62646678	Fair	REMAIN	Bent Leader, Limb Damage - Minor
159	181		<i>Bursera simaruba</i>	Gumbo limbo	8	24	18	239703.40290968	808526.57802388	Fair	REMAIN	Bent Leader, Limb Damage - Minor
159	182		<i>Tamarindus indica</i>	Tamarind	14	42	40	239650.22865658	808502.0096223	Fair	REMAIN	Limb Damage - Minor, Lopsided
159	183		<i>Bursera simaruba</i>	Gumbo limbo	18	40	38	239633.02760782	808493.51435098	Good	REMAIN	
160	184		<i>Bursera simaruba</i>	Gumbo limbo	18	36	40	240519.54289576	808714.58823882	Fair	REMAIN	Bent Leader, Limb Damage - Minor
161	185		<i>Ficus aurea</i>	Strangler fig	42	40	44	240525.86621576	808719.11924301	Poor	REMAIN	Co-dominant Leaders, Limb Damage - Minor, Trunk Damage - Major
162	186		<i>Conocarpus erectus</i>	Green Buttonwood	10	30	24	240567.98115259	808726.52817418	Fair	REMAIN	Limb Damage - Minor, Slight Lean
163	187		<i>Swietenia mahagoni</i>	Mahogany	18	36	34	240699.24451348	808765.7566295	Good	REMAIN	Co-dominant Leaders
163	188		<i>Bursera simaruba</i>	Gumbo limbo	16	24	30	240717.6294157	808772.5350012	Fair	REMAIN	Co-dominant Leaders, Limb Damage - Minor
163	189		<i>Coccoloba diversifolia</i>	Pigeon Plum	6	16	20	240910.67521756	808852.43176632	Good	PRUNE	
163	190		<i>Coccoloba diversifolia</i>	Pigeon Plum	6	16	20	240923.05076702	808857.23850023	Good	PRUNE	

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REVISIONS				LANDSCAPE ARCHITECT			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TREE DISPOSITION CHART	SHEET NO. 172
DATE	DESCRIPTION	DATE	DESCRIPTION	CASTO MIGUEL JUNCAL LICENSE NUMBER LA-6667184 MILLER LEGG 1845 NW 112 AVE SUITE 211 MIAMI, FL 33172			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 5	MONROE	447810-1-52-01		

F. Florida Keys Overseas Highways Trail (FKOHT) Memorandum

MEMORANDUM

To: Shereen Yee Fong
Tiffany Gehrke

From: Gabriela Ramirez, P.E.
John McWilliams, P.E.

Date: March 31, 2022

**Subject: Florida Keys Overseas Highway Trail (FKOHT)
Plantation Key Improvement Analysis
FM No. 421053-3-12-05
Contract No. CA-289
Task Work Order No. 13**

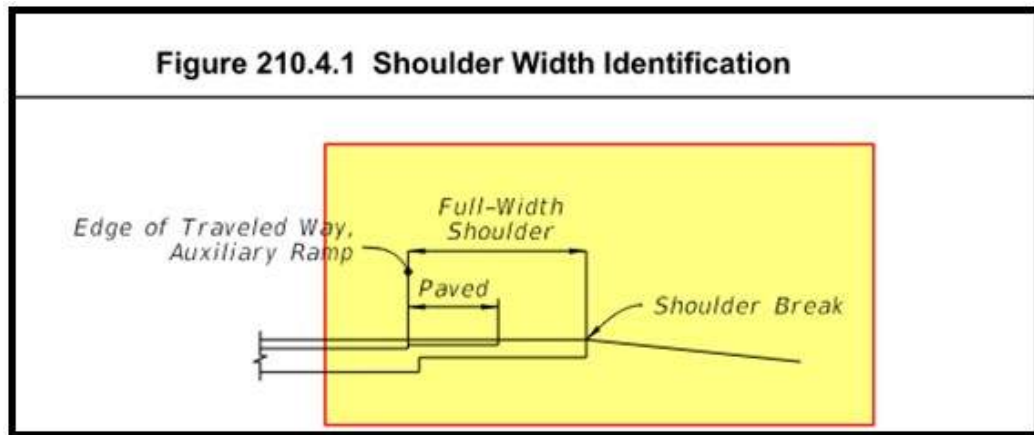
The purpose of this memorandum is to summarize the evaluation of the feasibility of widening the existing Florida Keys Overseas Highway Trail (FKOHT) along SR 5/US 1/Overseas Highway/90060000 from Executive Bay Club/MM 87.16/MP 13.417 to Woods Ave/MM 89.81/MP 16.143 on Plantation Key in Islamorada, Village of Islands. The Florida Department of Transportation (FDOT) - District 6 is currently finalizing a scoping report for a Resurfacing, Restoration and Rehabilitation (RRR) project (FM No. 447810-1-52-01) along these limits and the draft scoping report identified the areas of potential widening of the existing FKOHT from approximately six (6) feet width to ten (10) feet.

Kimley-Horn performed the evaluation based on files from the scoping report consultant as well as from a previous RRR project (FM No. 414649-1-52-01) from 2008, as well as a series of field observations and localized measurements to assess the existing condition of the FKOHT.

Key findings, considerations, and assumptions based on the 2022 Florida Design Manual (FDM) Chapter 224 (see Attachment A) are as follows:

- Chief Planner approval will be required for a trail width of less than twelve (12) feet since the FKOHT is a SUN Trail network per the FDM. This study considered a ten foot (10') wide path which would require this approval. Note that the FDM standards for Urban Side Paths design was not considered as the corridors' s design speed is fifty-five (55) mph RRR project, which exceeds the allowable design speed for Urban Side Paths.
- Several locations would require a reduced path width of eight (8) feet given the right-of-way (R/W) constraints, narrow swales, and/or existing electric transmission poles. This study considered R/W acquisition and relocation of major transmission poles to be outside the project scope.

- The scoping report proposed milling and resurfacing/widening of the existing sections of the path which would not meet the FDM criteria for the separation of roadway from shared use path throughout the limits of the project. The current criteria requires five (5) feet of separation measured from the mainline shoulder break (i.e., edge of unpaved shoulder, see FDM Figure 210.4.1) on flush shoulder roadways with design speed fifty (50) mph or greater. In order to meet the minimum separation, full reconstruction of the path should be considered (See Attachment B).



- In some locations where transmission poles cannot be avoided, the proposed design would require the path to split in both directions around some transmission poles. A Design Variation for shared use path horizontal clearance will be required as well as the incorporation of additional striping and object markers to delineate the obstruction.
- Where the minimum separation cannot not be obtained, a Design Variation for the shared use path's separation from roadway would also be required. To mitigate the issue, the study considered the installation of a crashworthy barrier (i.e., General W-Beam Guardrail) at the clear zone. Specific guardrail requirements are not included in the concept plans in Attachment B, but are included in the Opinion of Probable Cost in Attachment C. This issue would require further design analysis as part of construction plan preparation.
- An Opinion of Probable Cost was developed based on the estimated quantities for the recommended improvement showed on the Deficiencies and Recommendations Plans (See Attachment B). The unit prices were obtained from FDOT Pay Items Average Unit Cost, 12-month Moving Average for year 2021 Monroe County (Market Area 14) or Statewide from the period 8/01/2021 to 1/31/2022 (See Attachment C). The standalone planning-level construction costs for these improvements are estimated at \$1.5 million.
- Given the narrow R/W line and swales, the proposed shared use path would generally be located as close to the R/W line as possible while still providing the 4' horizontal clearance from edge of the path required per FDM. Due to the location of the

transmission poles, some areas would provide only a one (1) foot of clearance to the R/W line and a Design Variation would be required.

- Limited vertical information was available from the previous RRR topographic survey. Therefore, side slopes must be verified to confirm elevations at the R/W line can be matched or if additional mitigation is needed to address possible drop-off conditions.
- An environmental due diligence analysis was conducted for the limits of the project and can be found in Attachment D. Wetlands were located immediately adjacent but not within the R/W of the corridor. The project Environmental Class of Action will likely be a Type I Categorical Exclusion (CE), as described in Part 1, Chapter 2, Class of Action Chapter of the Project Development and Environment (PD&E) Manual.

In summary, the widening of portions of the Florida Keys Overseas Heritage Trail within Plantation Key will require several Design Variations from FDM criteria and approval from FDOT's Chief Planner in order to be implemented. The planning-level construction cost is estimated at \$1.5 million. The improvements are expected to be classified as a Type I Categorical Exclusion per the FDOT PD&E Manual.

Attachment A
FDM Chapter 224

224 Shared Use Paths

224.1 General

Shared use paths are paved facilities physically separated from motorized vehicular traffic by an open space or barrier and are either within the highway right of way or an independent right of way. The term, “shared use path”, as used in this manual is synonymous with trails, multiuse trails, or other similar terms used in other Department manuals.

Shared use paths are used by bicyclists, pedestrians, skaters, runners, and others. Since shared use paths serve as pedestrian facilities, they must comply with Americans with Disabilities Act (ADA) standards. In addition to the requirements of this manual for accessible pedestrian facilities, the bicycle’s operating characteristics govern the design of shared use paths.

It is preferable to plan for shared use paths ahead of time by including them in a district bicycle facility plan. There should be a commitment to provide path continuity with other bikeways throughout the corridor. Ensure adequate access to local streets and other facilities along the path.

A shared use path may substitute for the following:

- Sidewalk in locations where sidewalk is required (See **FDM 222.2.1**)
- Bicycle lanes on roads with a design speed of 35 mph or greater (See **FDM 223.2.1**)

For RRR projects, other than meeting detectable warning and curb ramp requirements, unaltered shared use paths that are not in compliance with **FDM** criteria or ADA standards are not required to be reconstructed.

An Urban Side Path is a category of shared use paths that may be used in C2T, C4, C5 and C6 context classifications where the design speed of the adjacent roadway is 35 mph or less. In C5 or C6 context classifications, Urban Side Paths placed adjacent to the roadway must be provided with a separate sidewalk to accommodate increased pedestrian demand in these context classifications.

The Urban Side Path users and motorists in adjacent travel lanes will be traveling more slowly in C2T, C4, C5, and C6 context classifications, compared to the rural and suburban locations of conventional Shared Use Paths. In addition, because they are associated with curbed roadways, Urban Side Paths will be vertically separated from the roadway, further

distinguishing them from conventional Shared Use Paths. The slower travel speeds and vertical separation allow the use of design criteria differing from a standard Shared Use Path. The slower travel speeds are due to speed management concepts inherent to the urban environment (e.g., enclosure, engagement, and deflection). See **FDM 202** for more information on speed management.

A shared use path may not be the best solution for all conditions. Use a separated bike lane with a sidewalk per **FDM 223** and **FDM 222** in Context Classifications C2T, C4, C5, or C6 when:

- Non-motorist volumes are expected to be high, or
- There may be high numbers of more vulnerable users such as elderly or people with disabilities.

224.1.1 Shared Use Path Within Department Limited Access Right of Way

Exposing vulnerable road users to high-speed traffic is undesirable; therefore, shared use paths located parallel to Limited Access (LA) Facility travel lanes are not permitted within LA right of way (R/W). However, a shared use path on causeways or bridges that span navigable waterways may be considered when the path is shielded from the high-speed traffic using a barrier or traffic railing.

It is the Department's intention to facilitate interconnectivity with other existing or planned shared use paths (trails) as identified by the Florida Greenways and Trails Council in accordance with **Chapter 260, Florida Statutes** "Florida's Greenways and Trail Act". To support Florida's shared use path (trail) network, crossing the Department's LA R/W at an existing roadway, or on a new separated overpass or underpass, will be considered.

Shared use paths that cross LA R/W must meet the following criteria:

- (1) The shared use path is available for public use and includes a fence or wall to prevent access to the LA Facility travel lanes.
- (2) Local Agency Agreements must be obtained to assign ownership, maintenance, and management; responsibilities, including:
 - Lighting
 - Fencing or barriers
 - Security gates
 - Signing
 - Amenities

- (3) At-grade crossings are permitted only at interchange ramp terminals and signalized crosswalks.
- (4) A proposed overpass crossing (i.e., bridge structure spanning LA R/W) must not be within two miles of an existing or proposed shared use path crossing of the same LA Facility. A proposed overpass must:
 - (a) Accommodate future widening of the LA Facility,
 - (b) Span the LA R/W with minimal piers, and
 - (c) Provide abutments outside of clear zone.
- (5) A proposed underpass crossing (i.e., shared use path adjacent to roadway or waterway under LA Facility bridge) must meet minimum vertical clearance as defined in **FDM 224.8**. A proposed underpass must remain free from standing water up to and including the 10 year storm event.

Design Variations for the above criteria must be approved by the Chief Engineer, following a review by the Chief Planner.

224.1.2 Public Transit Loading Zones

See **FDM 225** for information on Public Transportation Facilities. Provide a minimum 5-foot-wide sidewalk connecting transit stops to shared use paths.

Coordination with the following may be required to determine the optimum location of boarding and alighting areas, transit shelters, and bus bays:

- District Pedestrian/Bicycle Coordinator
- District Modal Development Office Coordinator
- District ADA Coordinator
- District Public Transportation staff
- Local public transit provider(s)

224.1.3 At-grade Railroad Crossings

See **FDM 222.2.4** for information on at-grade railroad crossings.

224.1.4 Conflict Points

Special attention should be paid to minimizing and managing conflict points along shared use paths. See **FDM 223.2.4.5** for more information.

224.1.5 Cyclists Enter and Exit Paths

Design Shared Use Path entry and exit points to allow cyclists to enter and exit without riding against traffic. See **FDM 223.2.4.5** for more information.

224.2 Curb Ramps

Provide curb ramps to be the same width as the path. At locations where the path narrows from the typical width, warning signs or pavement markings in conformance with the **MUTCD** should be used. Refer to **FDM 222.2.2** for specific design criteria for curb ramps.

224.3 Detectable Warnings

Provide detectable warnings in accordance with **FDM 222.3**.

224.4 Widths

The appropriate paved width for a two-directional shared use path is dependent upon context, volume and mix of users. Widths range from a minimum 10 feet to 14 feet, with a standard width of 12-feet. SUN Trail network facilities that are less than 12-feet require approval by the Chief Planner. For shared use paths not in the SUN Trail network:

- 10-foot wide may be used where there is limited R/W.
- Short 8-foot wide sections may be used in constrained conditions.

Consider the accommodation of emergency and maintenance vehicles or management of steep grades when selecting the width of the path.

FHWA's [Shared Use Path Level of Service Calculator](#) may be used as a guide in determining appropriate width.

224.4.1 Tunnel Widths

Clear width for tunnels is the width of the shared use path plus four feet. The geometrics and lighting requirements should be discussed with the Department Project Manager and the District Pedestrian/Bicycle Coordinator.

224.5 Cross Slopes

To meet ADA requirements, the maximum cross slope on shared use paths is 2%.

Use a 75-foot distance to transition from -2% to 2% or from 2% to -2% when it is desired to change the slope direction of the path. Consider the potential for ponding water when proposing a slope transition.

224.6 Longitudinal Grades

To meet ADA requirements, the maximum longitudinal grade is 5%. Grades greater than 5% should be considered ramps and designed accordingly. Maximum ramp slopes are 8.33% and can have a maximum rise of 30 inches, with a level landing at least 60 inches in length.

Grades greater than 5% cause difficulties for many bicyclists. **Table 224.6.1** provides maximum grades and distances for areas in which the terrain makes it necessary to use steeper grades on short sections.

Table 224.6.1 Maximum Grade Lengths

Longitudinal Grade (%)	Maximum Length (feet)
6	800
7	400
8	300
9	200
10	100
11+	50

Notes:

- (1) When using a longer grade, consider adding 4 to 6 feet of additional width to the path to allow a bicyclist to dismount and walk their bicycle.
- (2) Clear distances and sight distances should be adjusted to accommodate longer grades.

Refer to **FDM 224.11** for controls on grade changes.

224.7 Horizontal Clearance

Provide a 4-foot clear area adjacent to both sides of the path, including placement of signs. Maintain a 2-foot-wide graded area with a maximum 1:6 slope adjacent to both sides of the path. For restricted conditions, bridge abutments, sign columns, fencing and railing may be located within 4 feet of the edge of pavement.

For Urban Side Paths, the following criteria reflect the lower design speed. Provide a minimum 2-foot buffer area adjacent to both sides of the path, including placement of signs. Signs, plantings, or other items must be located outside of the 2-foot buffer. Maintain a graded area with a maximum 1:6 slope adjacent to both sides of the path within the 2-foot minimum buffer area.

See **FDM 224.15** for information concerning drop-off hazards.

See **Figure 224.8.1** where horizontal clearance is “H”.

224.8 Vertical Clearance

Provide a 10-foot vertical clearance from the lowest edge of an overhead obstruction to any portion of the path under the obstruction. An 8-foot clearance is allowed for overhead signs and for other overhead obstructions under constrained conditions.

A 12-foot vertical clearance is desirable for:

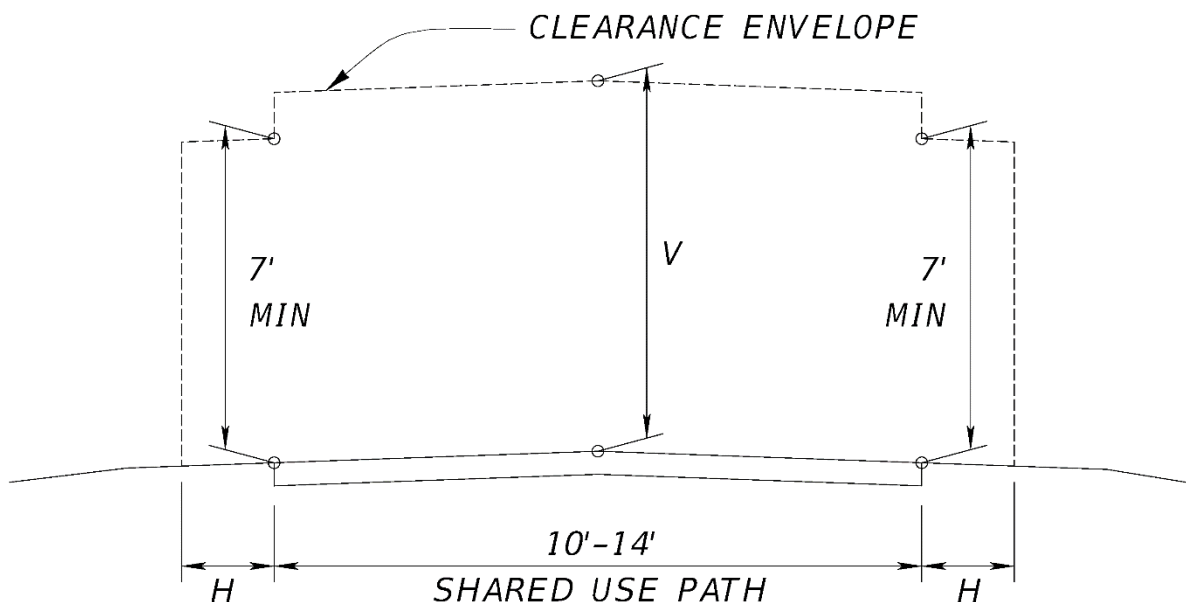
- (1) Accommodation of equestrians or maintenance and emergency vehicles.
- (2) Underpasses and tunnels.
- (3) SUN Trail.

Minimum clearances for bridge structures are given in **FDM 260.6**.

Existing elements that provide a minimum 8-foot vertical clearance are not required to be corrected to the clearances listed above.

See **Figure 224.8.1** where vertical clearance is "V".

Figure 224.8.1 Shared Use Path Horizontal and Vertical Clearance Envelope



224.9 Design Speed

Use a design speed of 18 mph for paths with longitudinal grades $\leq 4\%$. Use a design speed of 30 mph for paths with downhill longitudinal grades greater than 4%. For Urban Side Paths use a design speed of 10 mph.

224.10 Horizontal Alignment

224.10.1 Minimum Radii

The minimum centerline radius of curvature for a shared use path is provided in **Table 224.10.1**.

Table 224.10.1 Minimum Radius Horizontal Curves on Shared Use Paths

Design Speed (mph)	Maximum Cross Slope (%)	Minimum Radius (feet)
10	2	20
10	-2	22
18	+2	74
18	-2	86
30	+2	261
30	-2	316

Notes:

- (1) For paths with two-way traffic use minimum radius given for cross slope of -2%
- (2) Positive (+) cross slopes represent pavement sloped to the inside of horizontal curves. Negative (-) cross slopes slope toward the outside of horizontal curves.

224.10.2 Stopping Sight Distance

The minimum stopping sight distances for a shared use path are provided in **Table 224.10.2**. Further information on calculating the minimum stopping sight distances may be found in the **AASHTO [Guide for the Development of Bicycle Facilities, 2012](#)**.

- On curbed roadways , the edge of the path is to be at least 5 feet from the face of curb, with consideration of other roadside obstructions (e.g., signs and light poles).

Where the minimum separation cannot be obtained:

- Consider installation of a pedestrian channelization fence at speeds of 45 mph or less to limit incursion of path users onto the roadway.
- Consider installation of a crashworthy barrier at speeds greater than 45 mph to limit incursion of motorists onto the path, although this type of barrier can be used at lower speeds as well.

For Urban Side Paths, place as close to the R/W line as possible, but no closer than 2 feet from the back of curb. Do not place Urban Side Paths adjacent to uncurbed roadways.

Commentary: Criteria provided are minimum values only. As motorist speeds increase, the amount of separation between the traveled way and path should also increase to manage the level of traffic stress for path users.

224.13 Lighting

Lighting for shared use paths is important and should be considered where riding at night is expected, such as paths serving college students or commuters. Lighting should also be considered through underpasses or tunnels. Lighting standards are provided in **Table 231.2.1**.

224.14 Signing, Pavement Marking, and Signalization

The [Standard Plans](#) and the [MUTCD](#) provide guidance and requirements for signage, pavement markings and signals for shared use paths. Signs on shared use paths should follow the dimensions provided in **Table 9B-1 Bicycle Sign and Plaque Sizes, [MUTCD](#)**.

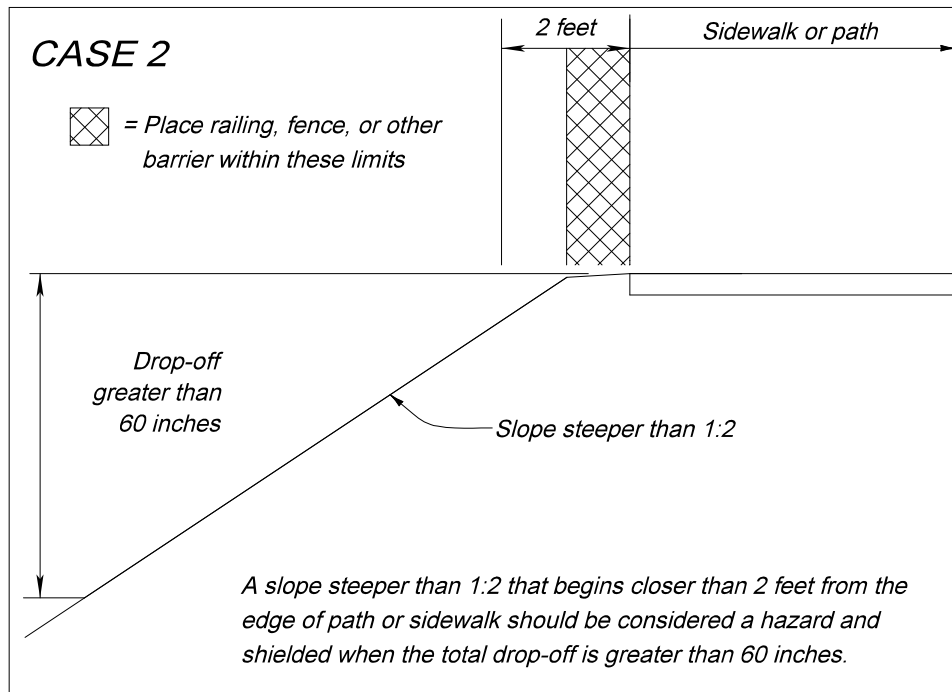
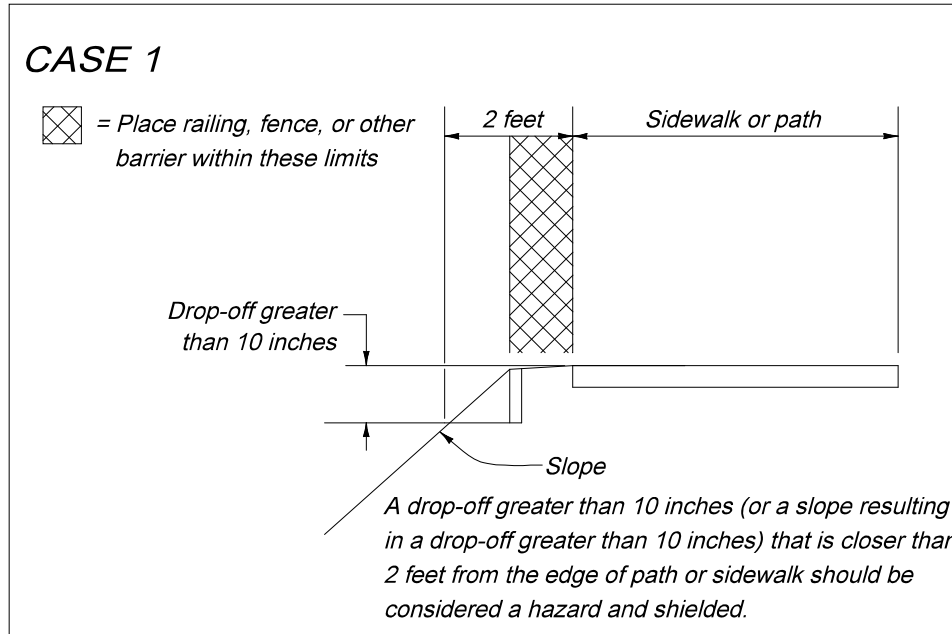
224.15 Drop-off Hazards

Drop-off hazards are steep or abrupt slopes adjacent to the path that can be perilous to pedestrians and cyclists. There are two cases that require shielding as shown in **Figure 224.15.1**. Depending on the depth of the drop-off and severity of the conditions below, shielding may be necessary for conditions other than cases 1 or 2.

Consider the following when determining the feasibility of shielding other drop-off hazards for protecting pedestrians and cyclists:

- (1) The engineer should consult the District Bicycle/Pedestrian Coordinator or Trail Coordinator.
- (2) Installing fencing or railings are two ways to shield the drop-offs. Fencing is generally intended for use in rural areas along paths and trails. Railing is generally intended for urbanized areas, locations attaching to bridge rail or along concrete walkways. Pedestrian/Bicycle Railings (**Standard Plans, Index 515 Series**) are adequate for shielding all drop-offs but are generally intended for use on drop-offs greater than 60 inches. Pipe Guiderail (**Standard Plans, Index 515-070 and 515-080**) is adequate for shielding drop-offs which are 60 inches or less.
- (3) Along continuous sections where the drop-off varies above and below the 60-inch threshold, for uniformity the engineer may consider using only one of the railing types adequate for shielding all drop-offs.
- (4) Railing or fencing near intersections or driveways could obstruct the driver's line of sight. To reduce the need for railings, as a sidewalk or shared use path approaches an intersection, consider extending cross drains and side drains to minimize drop-offs.
- (5) The installation of fencing, railing, or pipe guardrail presents a hazard in and of itself. Evaluate whether or not the installation of these devices present a greater risk than the drop-off or other condition it is intended to shield.

Figure 224.15.1 Drop-Off Hazards for Pedestrians and Bicyclists



224.16 Path Railings

Requirements for railings and fences are discussed in **FDM 222.4**.

224.17 Typical Sections

Example typical sections are provided in **FDM 306**.

224.17.1 Pavement Design

See the [FDOT Pavement Management website](#) for guidance on pavement requirements.

Provide a pavement design equivalent to standard shoulder pavement:

- 12-inch Stabilized Subgrade
- Base Group 1
- 1.5-inch Structural Course.

224.18 Shade Considerations

Shade along shared use paths is desired. Consider shade from landscaping and shade from architectural sources such as buildings, pavilions, and shade sails.

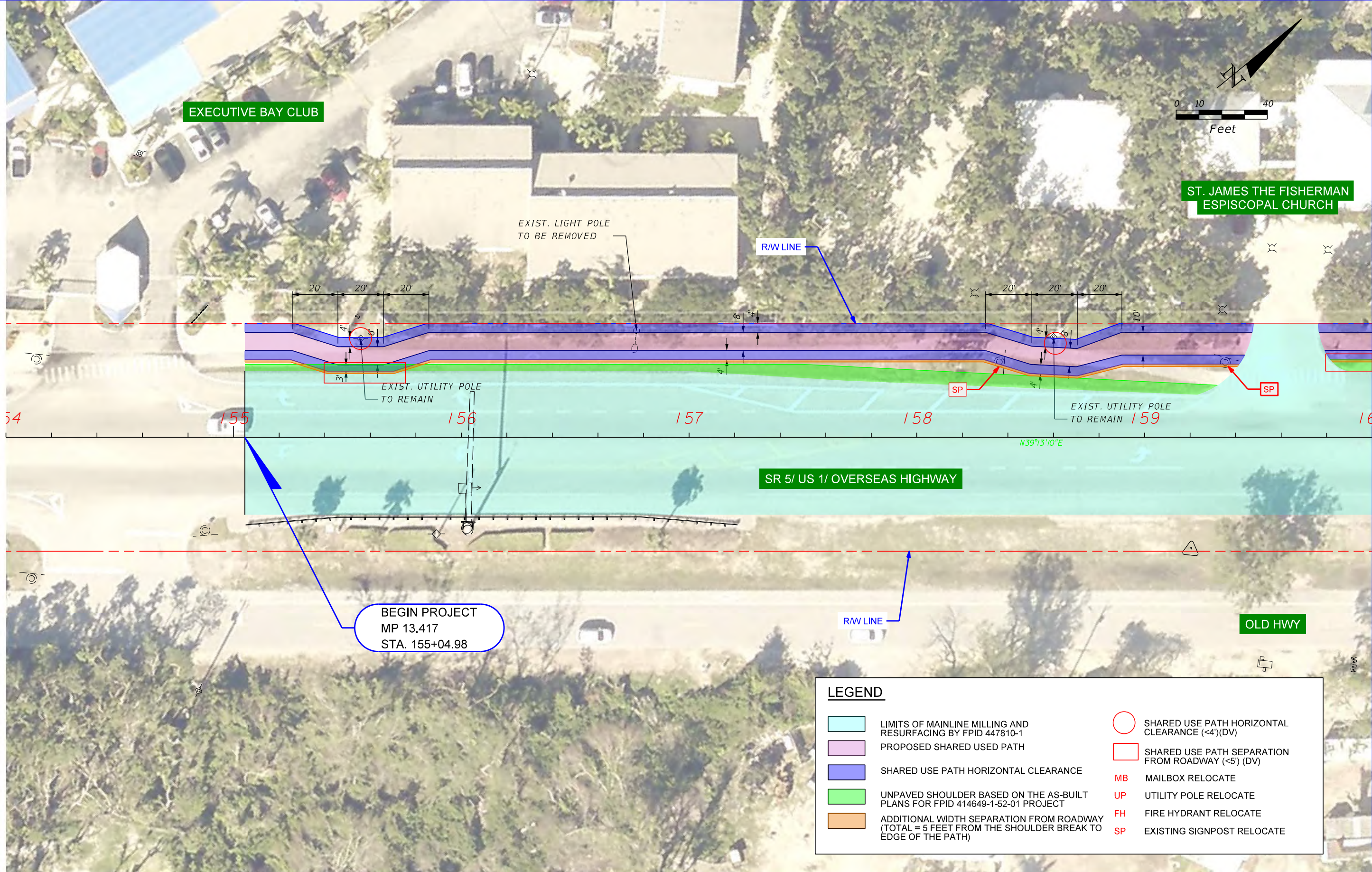
To maximize shade and minimize costs:

- Begin coordination between the designer, project manager, utilities, district landscape architect, and maintaining agency for the landscaping during Phase I of the design.
- Choose an alignment of the path that can capitalize on shade from existing and proposed trees or architectural sources.

For more information on shade from Landscape Design, refer to **FDM 228**, **FDM 329** and **Work Program Instructions Part 3, Chapter 16**.

Attachment B

Deficiencies and Recommendations Exhibits



MATCH LINE 160+00.00

LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
	PROPOSED SHARED USED PATH
	SHARED USE PATH HORIZONTAL CLEARANCE
	UNPAVED SHOULDER BASED ON THE AS-BUILT PLANS FOR FPID 414649-1-52-01 PROJECT
	ADDITIONAL WIDTH SEPARATION FROM ROADWAY (TOTAL = 5 FEET FROM THE SHOULDER BREAK TO EDGE OF THE PATH)
	SHARED USE PATH HORIZONTAL CLEARANCE (<4') (DV)
	SHARED USE PATH SEPARATION FROM ROADWAY (<5') (DV)
MB	MAILBOX RELOCATE
UP	UTILITY POLE RELOCATE
FH	FIRE HYDRANT RELOCATE
SP	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

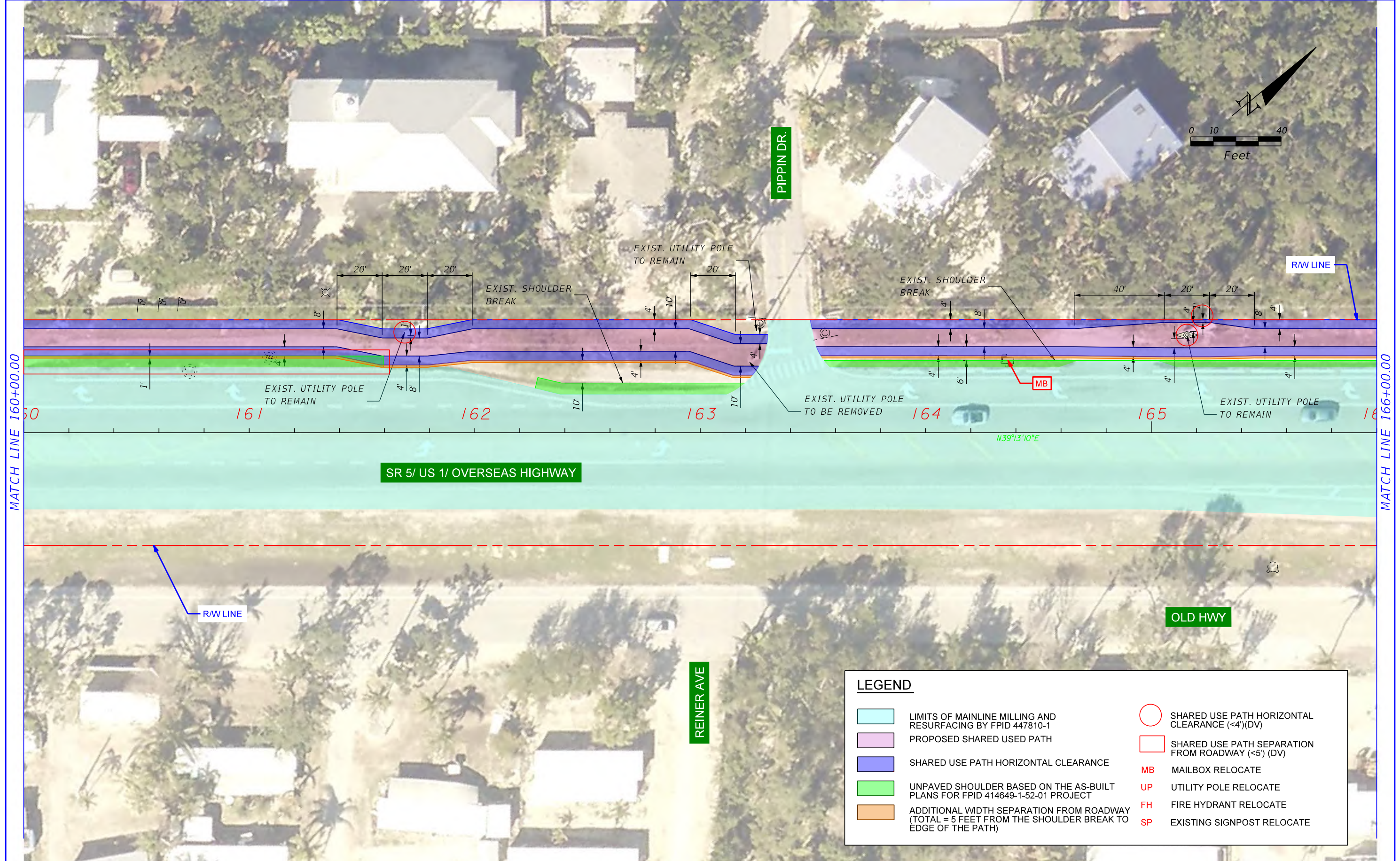
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SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
1



MATCH LINE 160+00.00

MATCH LINE 166+00.00

LEGEND	
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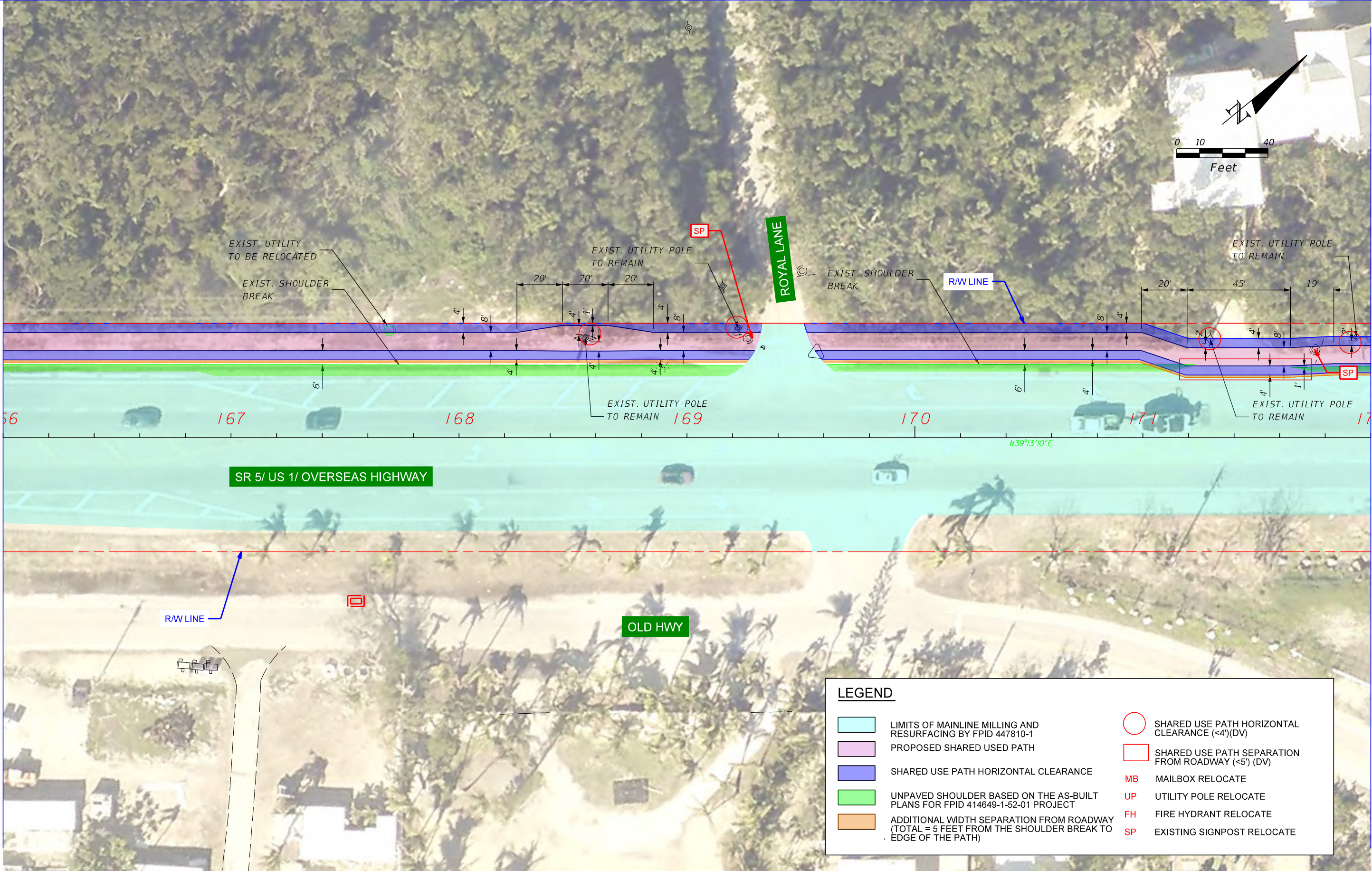
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
2

MATCH LINE 166+00.00

MATCH LINE 172+00.00



LEGEND	
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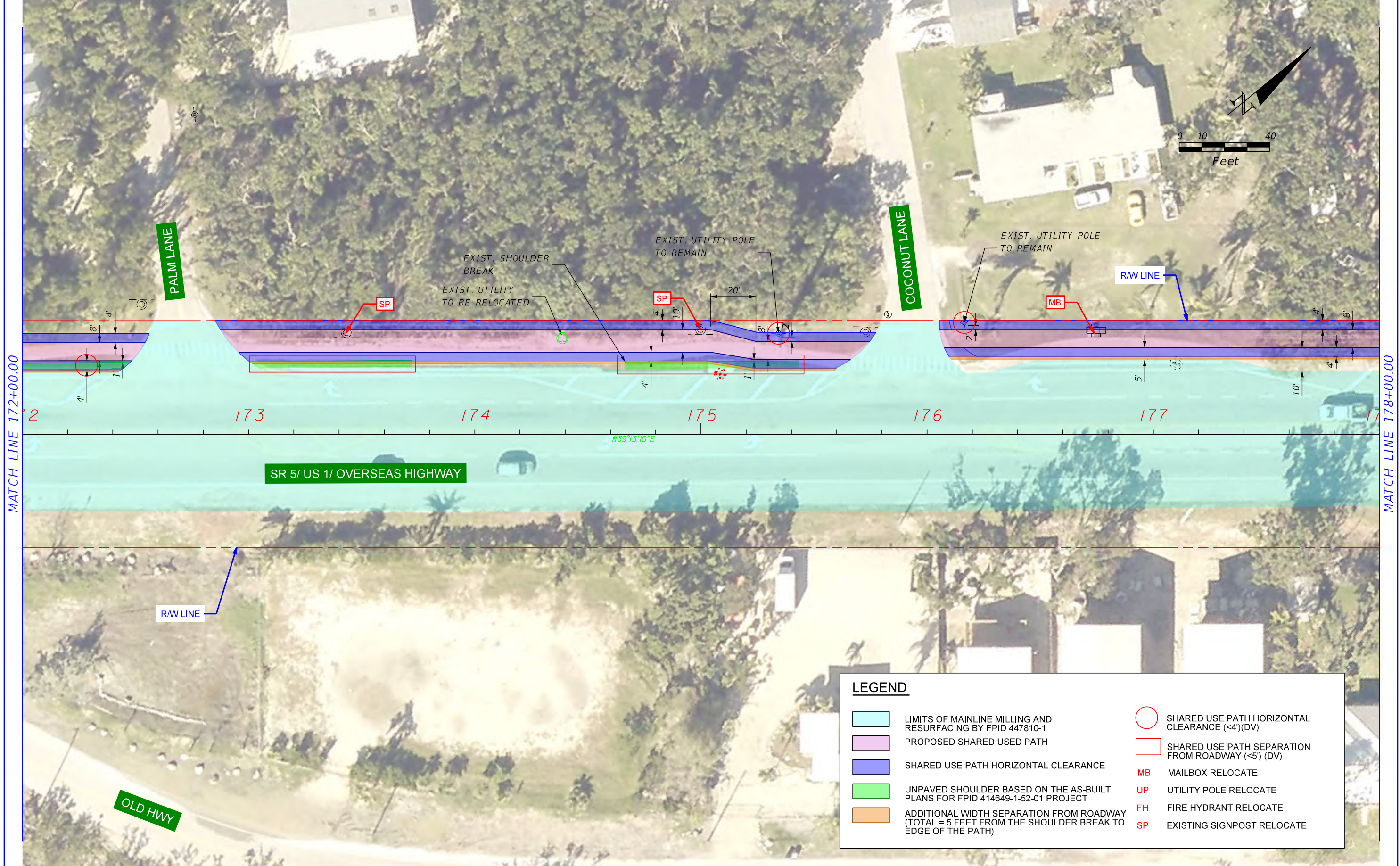
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
3



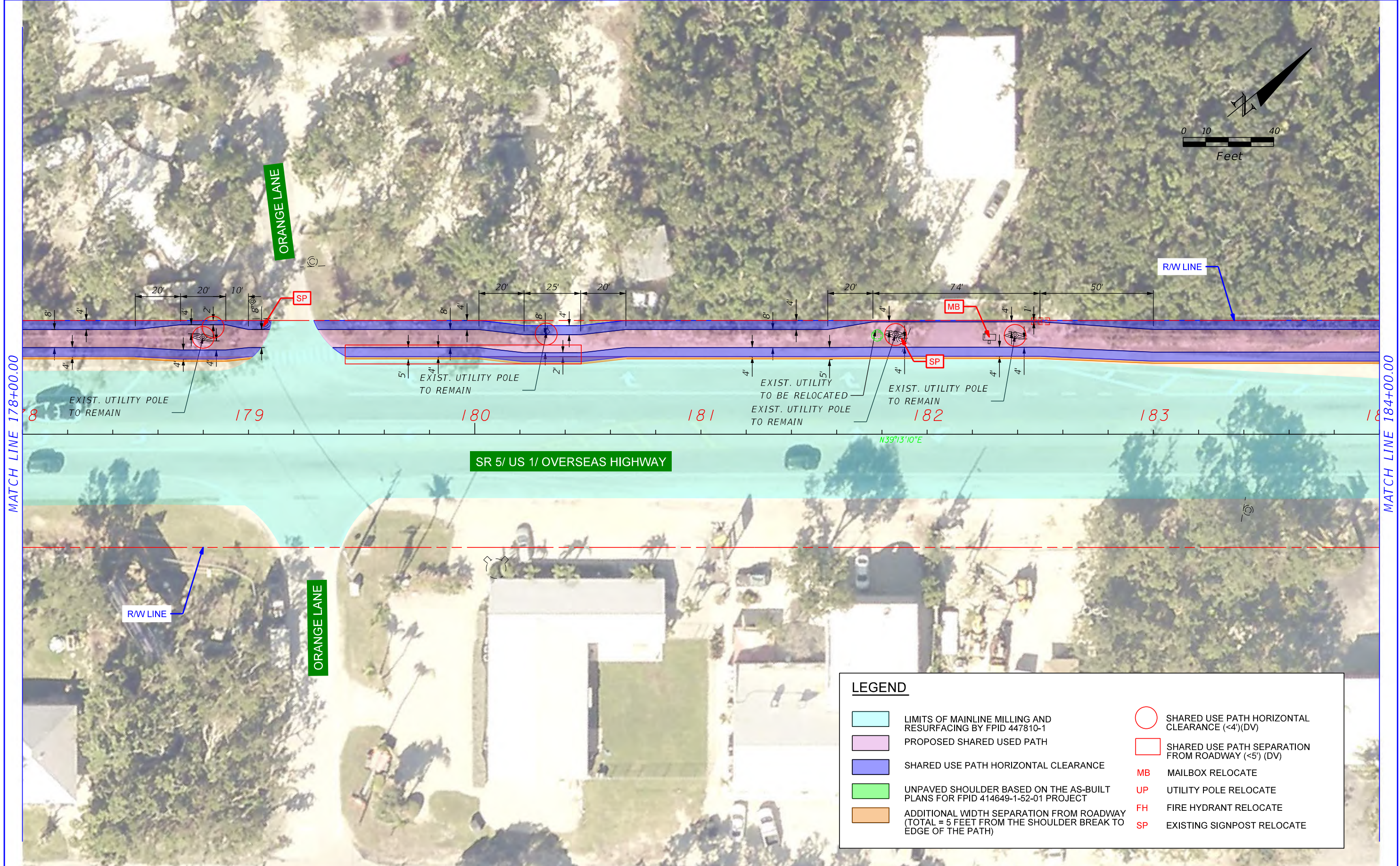
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
4



MATCH LINE 178+00.00

MATCH LINE 184+00.00

SR 5/ US 1/ OVERSEAS HIGHWAY

LEGEND	
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SP	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

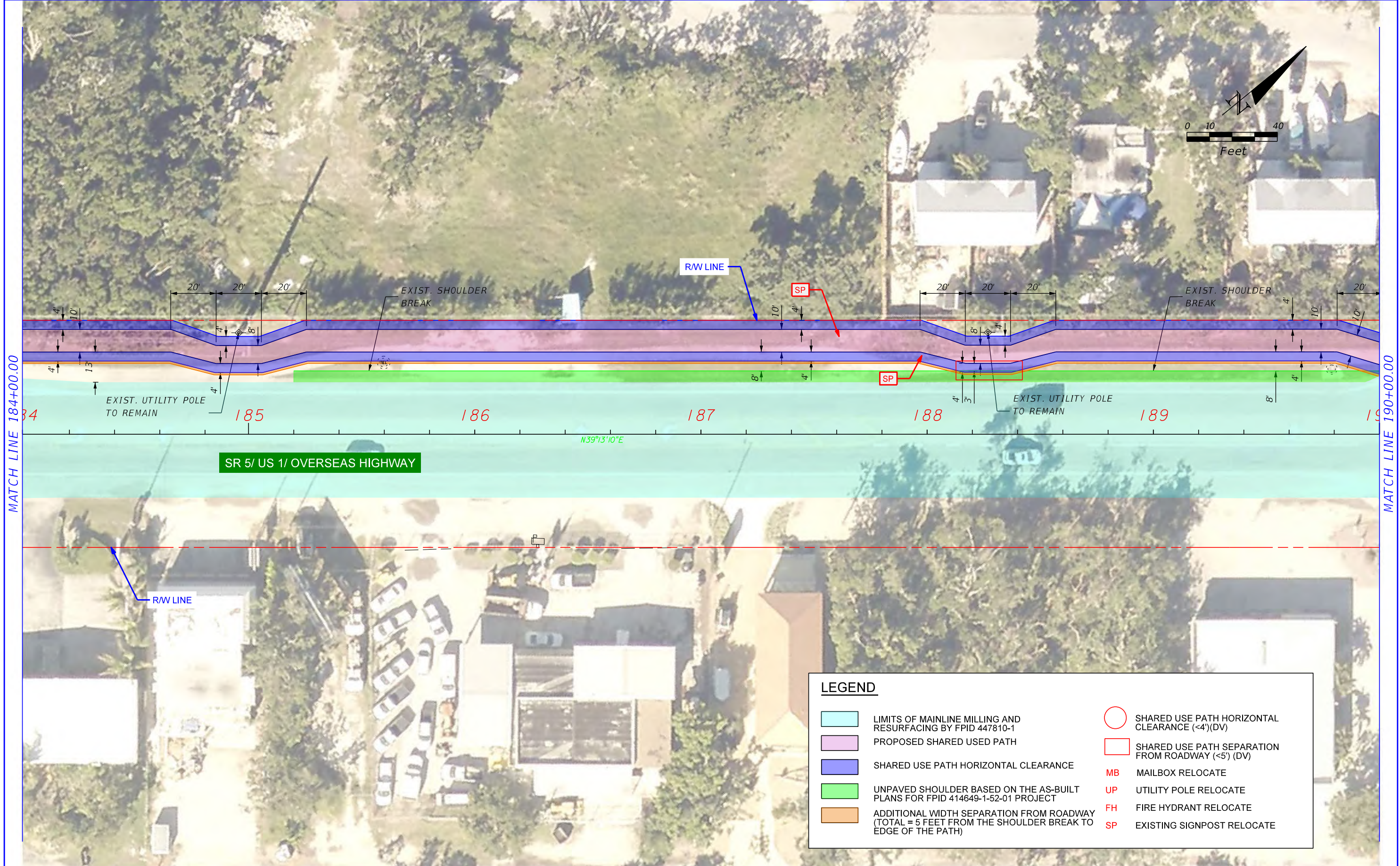
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
5



MATCH LINE 184+00.00

MATCH LINE 190+00.00

SR 5/ US 1/ OVERSEAS HIGHWAY

N39°13'10"E

LEGEND	
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FH	FIRE HYDRANT RELOCATE
SP	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

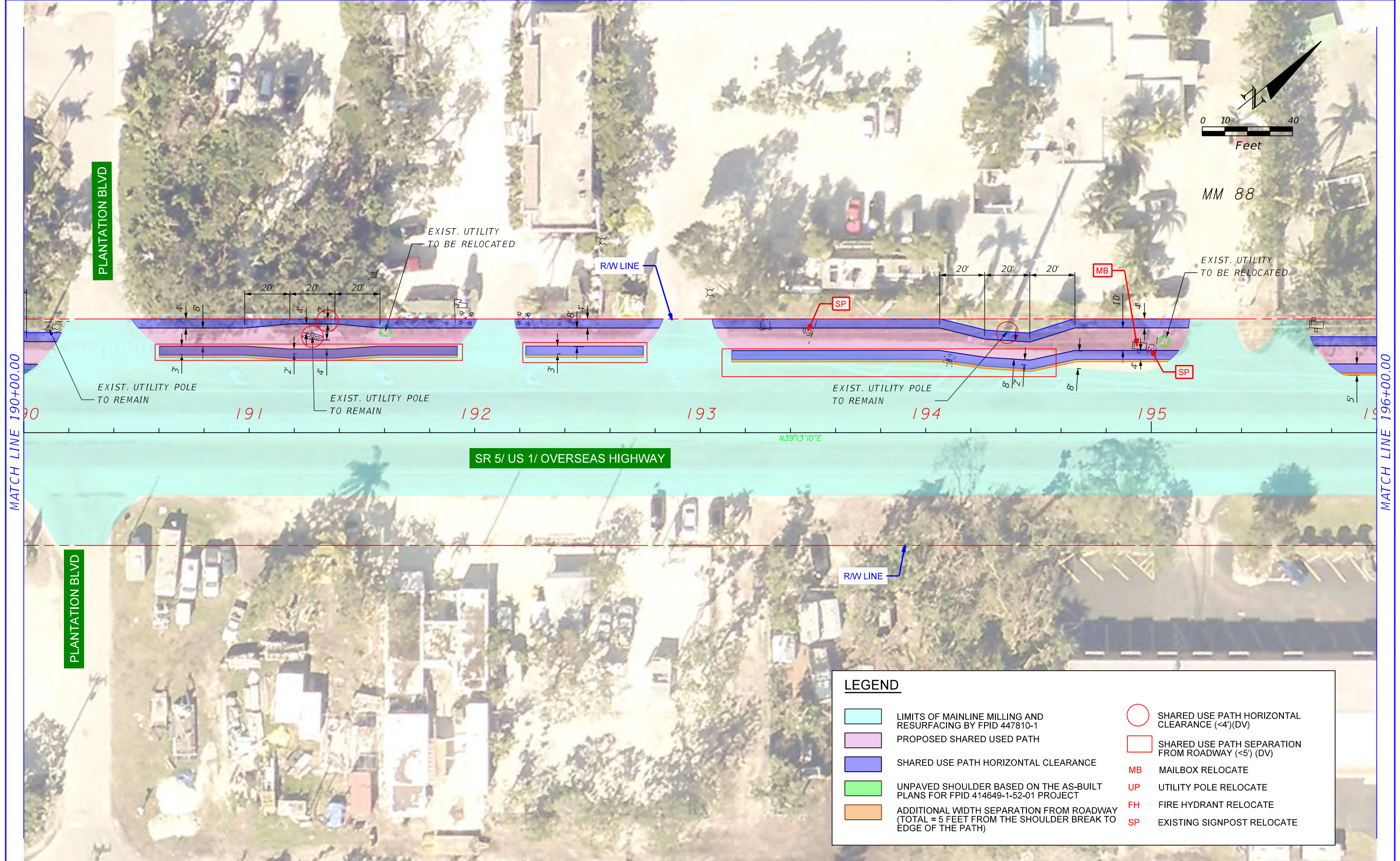
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
6



LEGEND	
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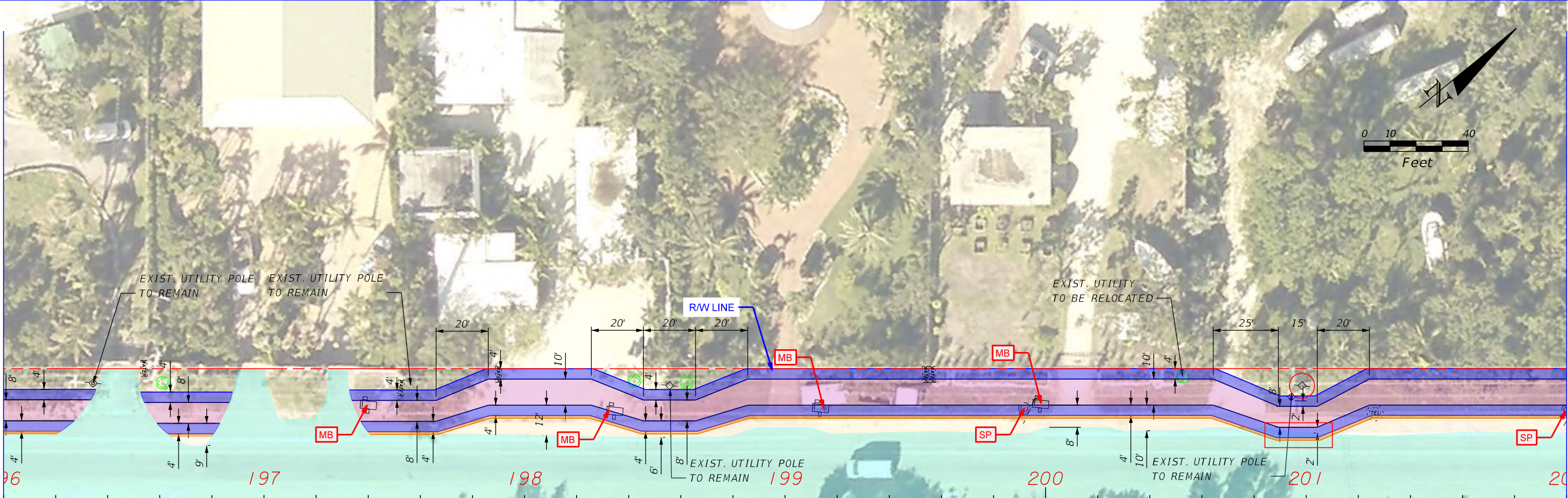
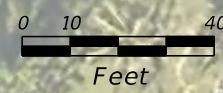
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
7

MATCH LINE 196+00.00

MATCH LINE 202+00.00



SR 5/ US 1/ OVERSEAS HIGHWAY

N39°13'10"E

LEGEND	
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	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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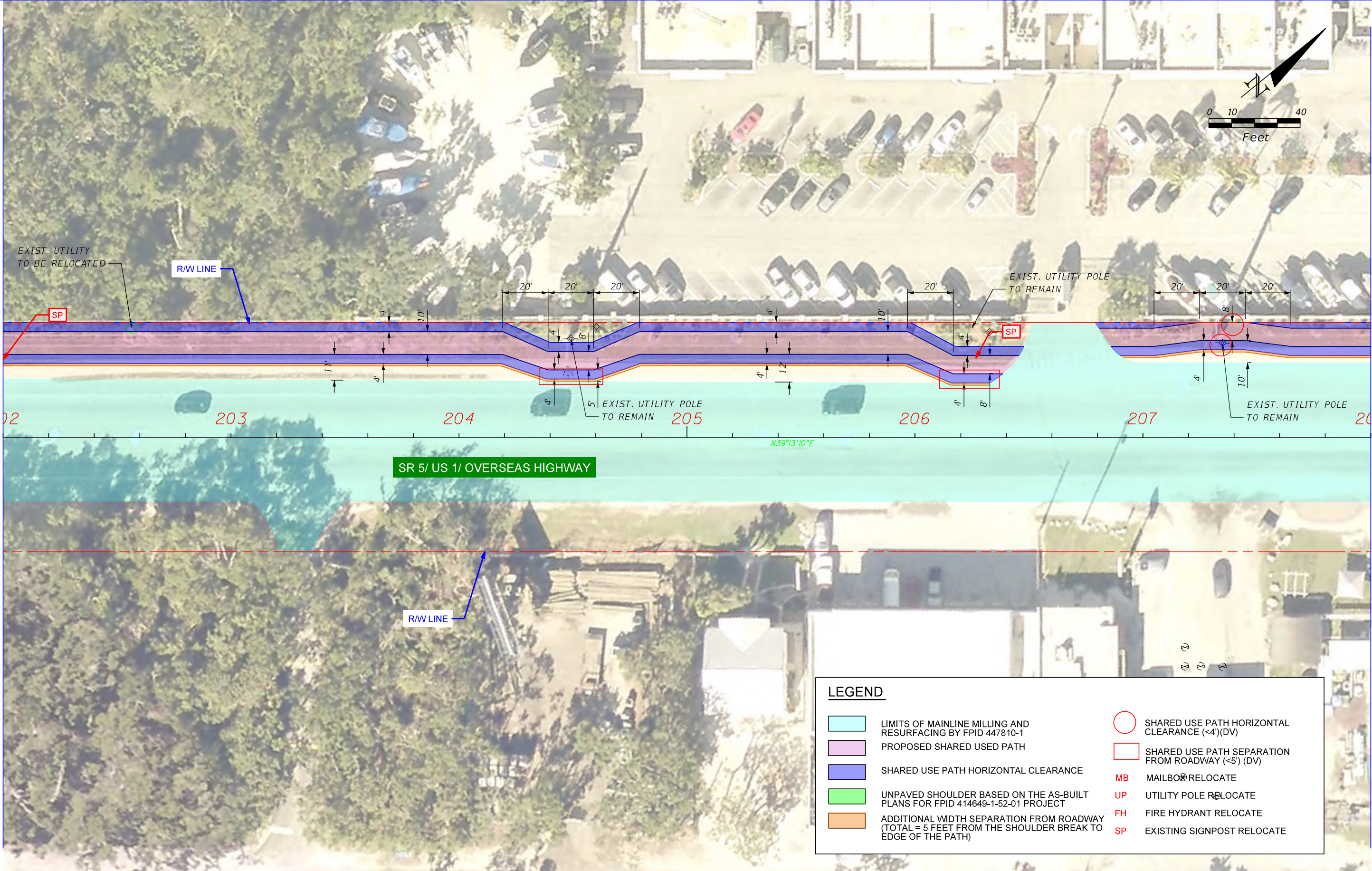
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
8

MATCH LINE 202+00.00

MATCH LINE 208+00.00



LEGEND	
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	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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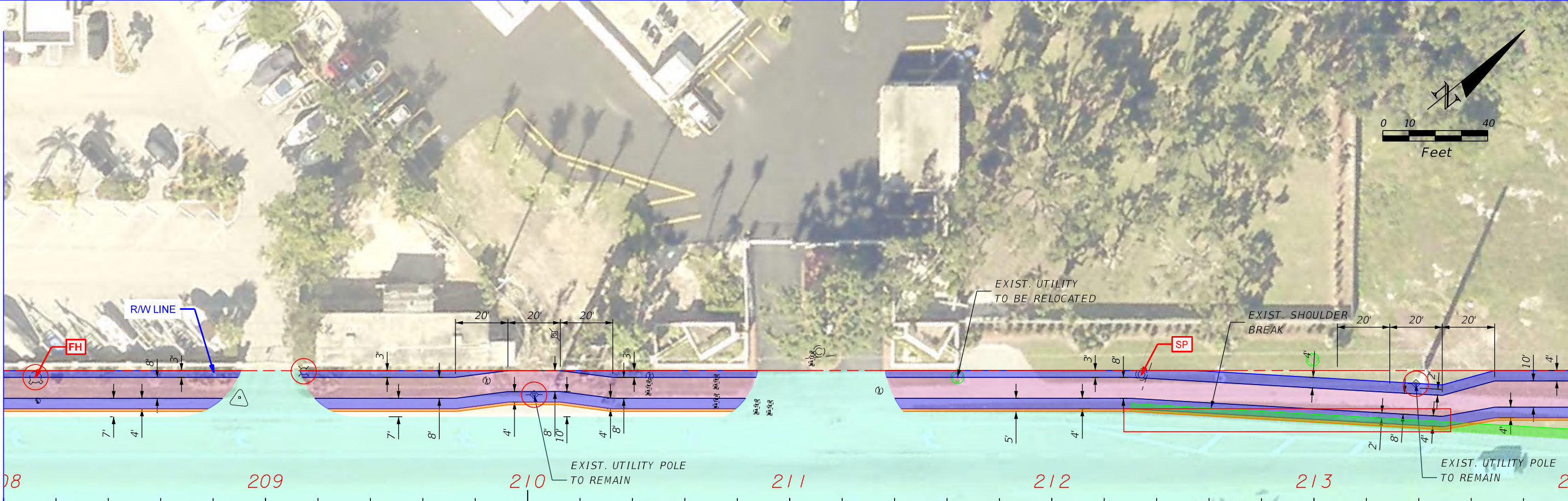
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
9

MATCH LINE 208+00.00

MATCH LINE 214+00.00



208 209 210 211 212 213 214

N39°13'10"E N39°13'10"E

SR 5/ US 1/ OVERSEAS HIGHWAY



LEGEND	
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

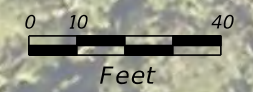
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

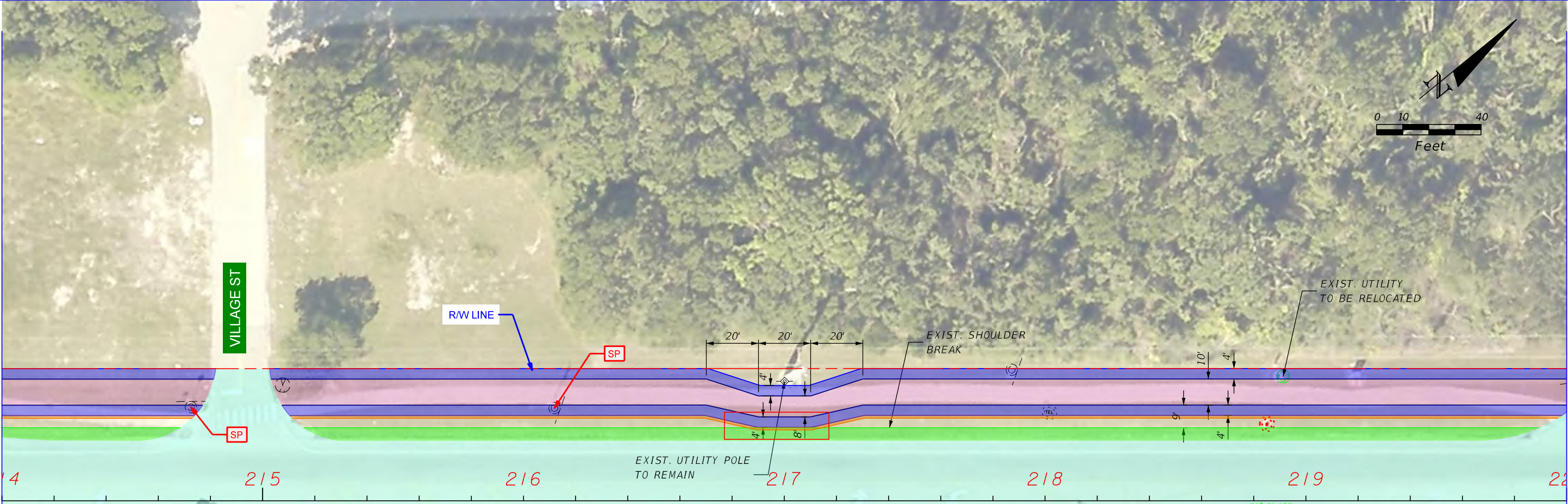
DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
10

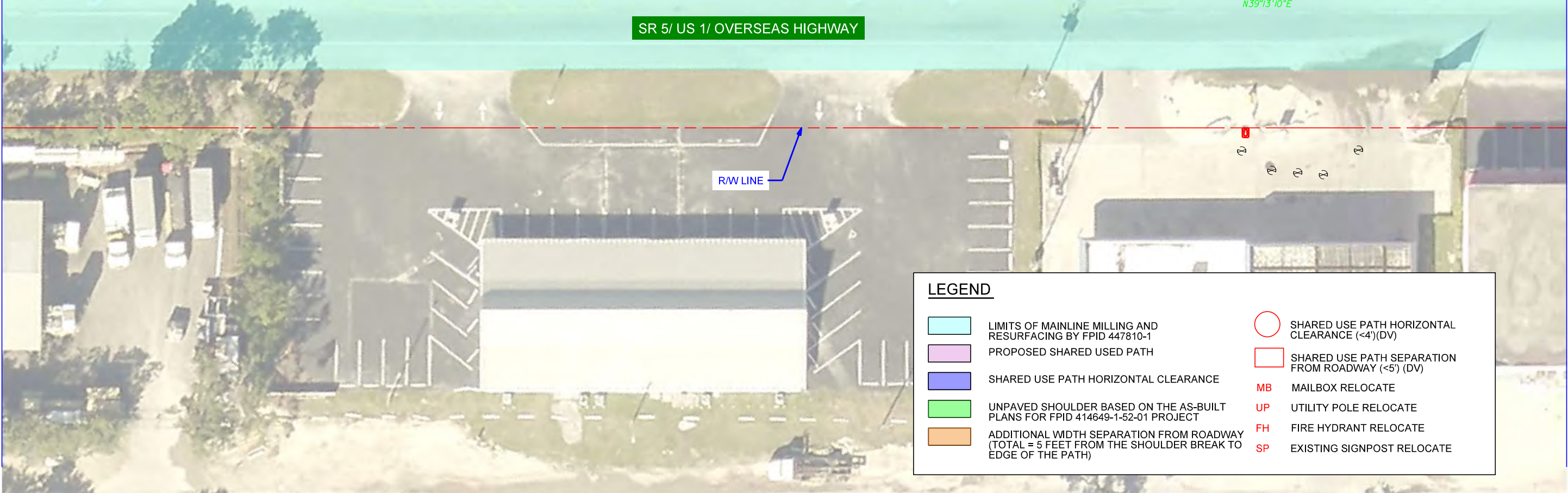


MATCH LINE 214+00.00

MATCH LINE 220+00.00



SR 5/ US 1/ OVERSEAS HIGHWAY



LEGEND	
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

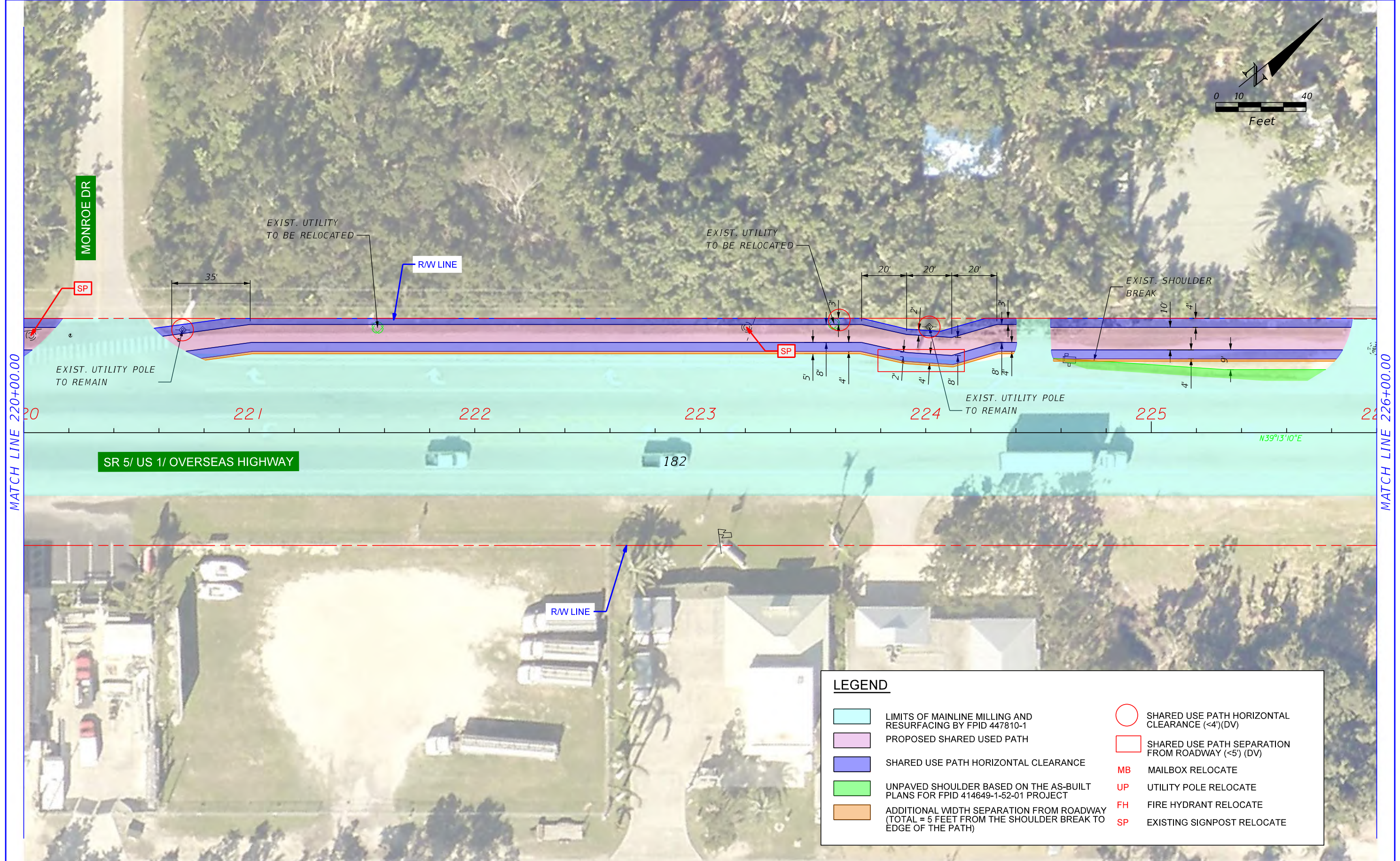
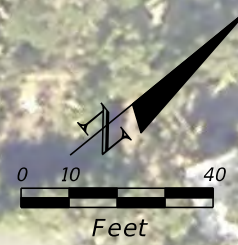
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DEFICIENCIES AND
RECOMMENDATIONS

SHEET NO.
11



LEGEND	
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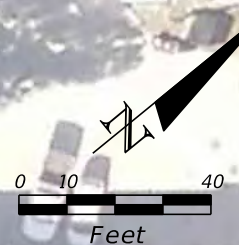
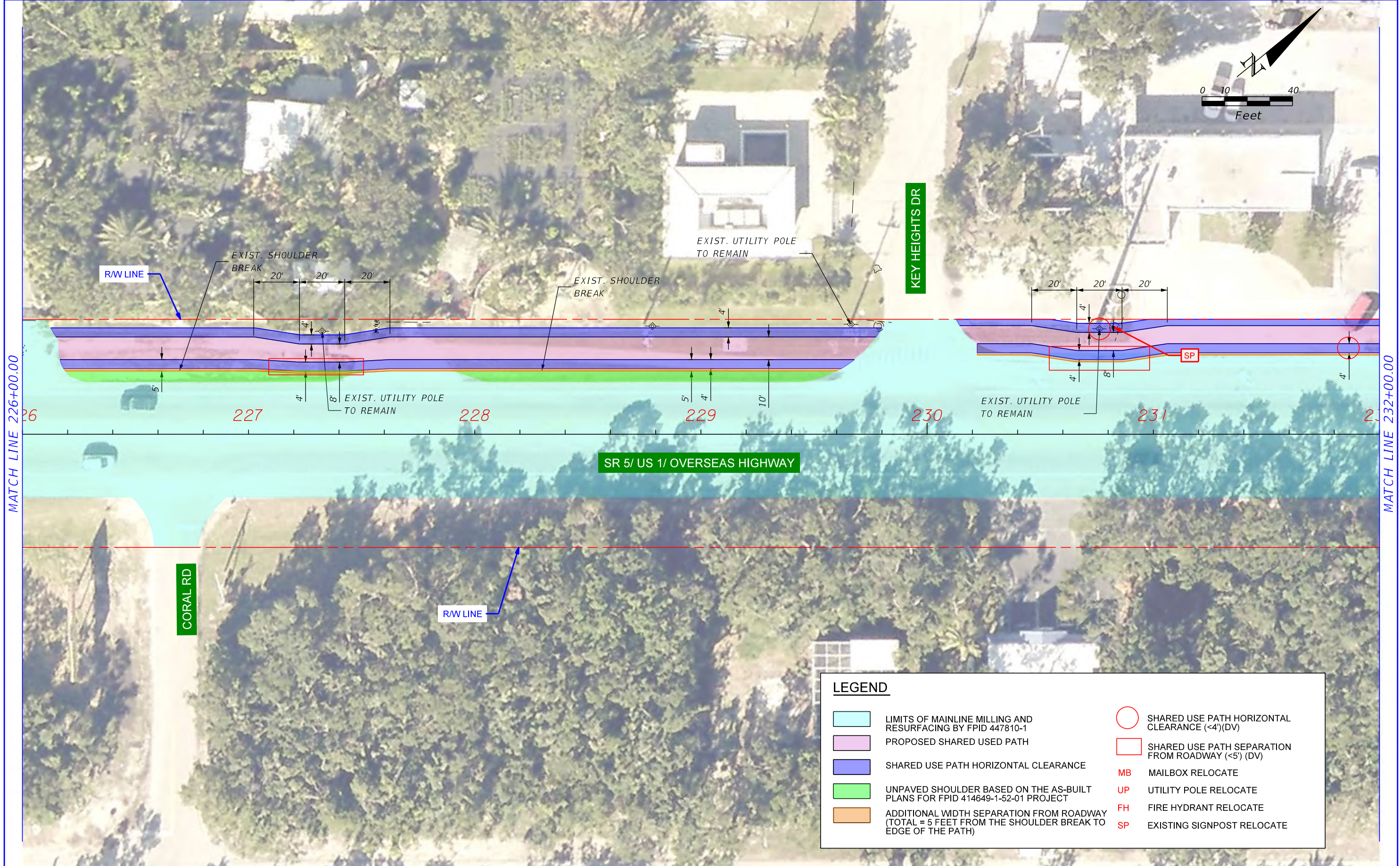
REVISIONS			
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
12



MATCH LINE 226+00.00

MATCH LINE 232+00.00

LEGEND	
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

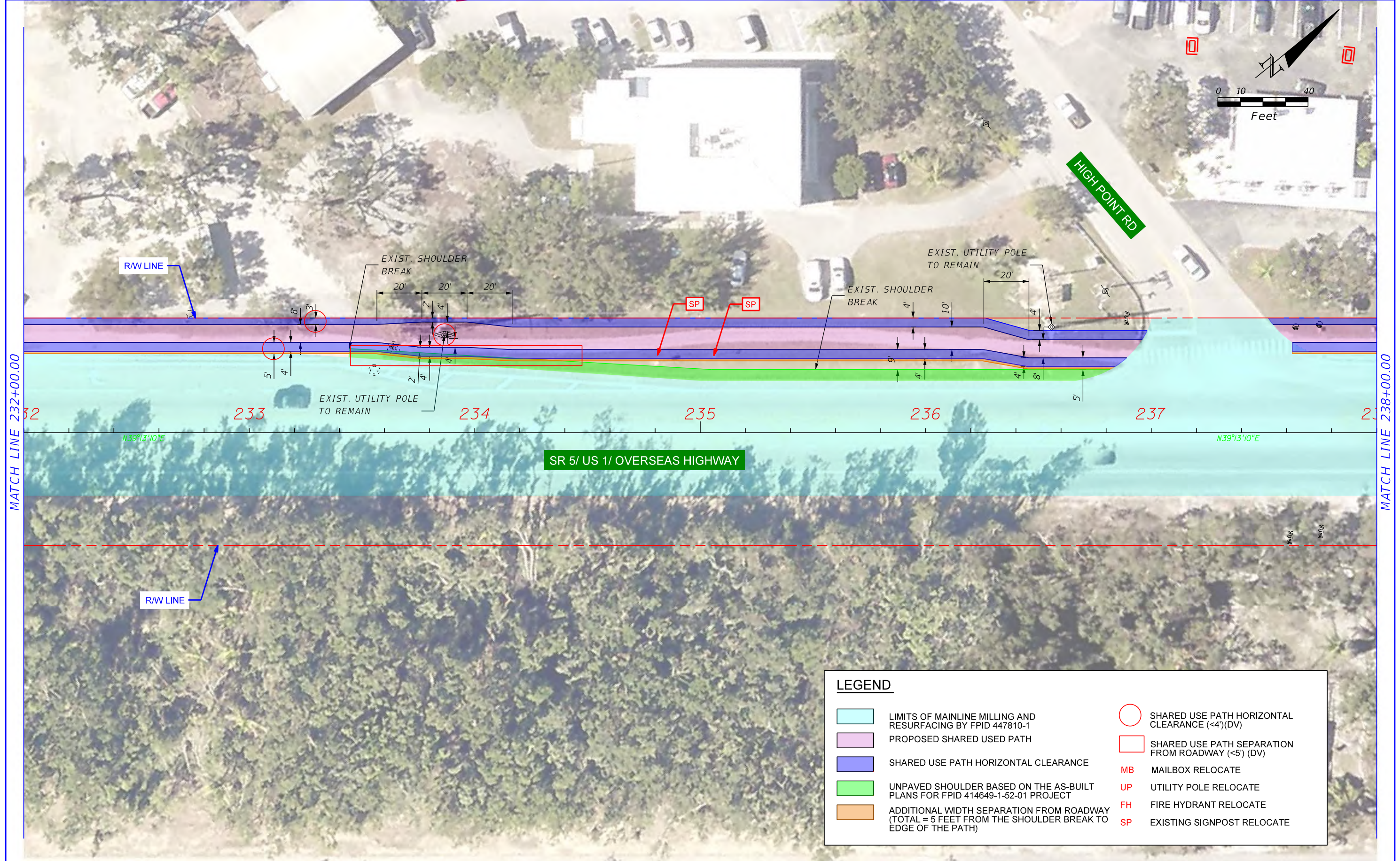
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DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
13



MATCH LINE 232+00.00

MATCH LINE 238+00.00

LEGEND	
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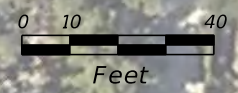
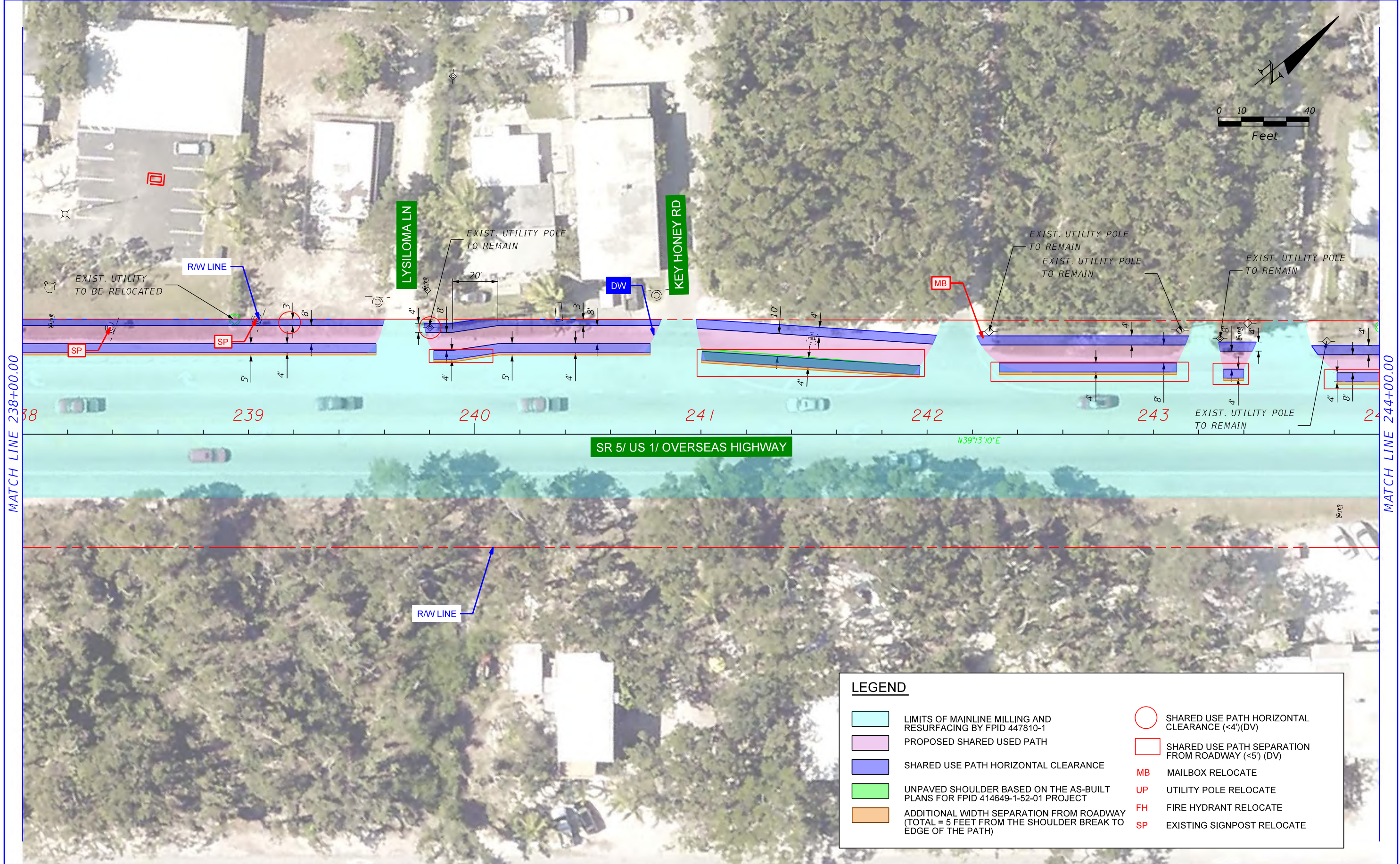
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
14



MATCH LINE 238+00.00

MATCH LINE 244+00.00

LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
	PROPOSED SHARED USED PATH
	SHARED USE PATH HORIZONTAL CLEARANCE
	UNPAVED SHOULDER BASED ON THE AS-BUILT PLANS FOR FPID 414649-1-52-01 PROJECT
	ADDITIONAL WIDTH SEPARATION FROM ROADWAY (TOTAL = 5 FEET FROM THE SHOULDER BREAK TO EDGE OF THE PATH)
	SHARED USE PATH HORIZONTAL CLEARANCE (<4')(DV)
	SHARED USE PATH SEPARATION FROM ROADWAY (<5')(DV)
MB	MAILBOX RELOCATE
UP	UTILITY POLE RELOCATE
FH	FIRE HYDRANT RELOCATE
SP	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

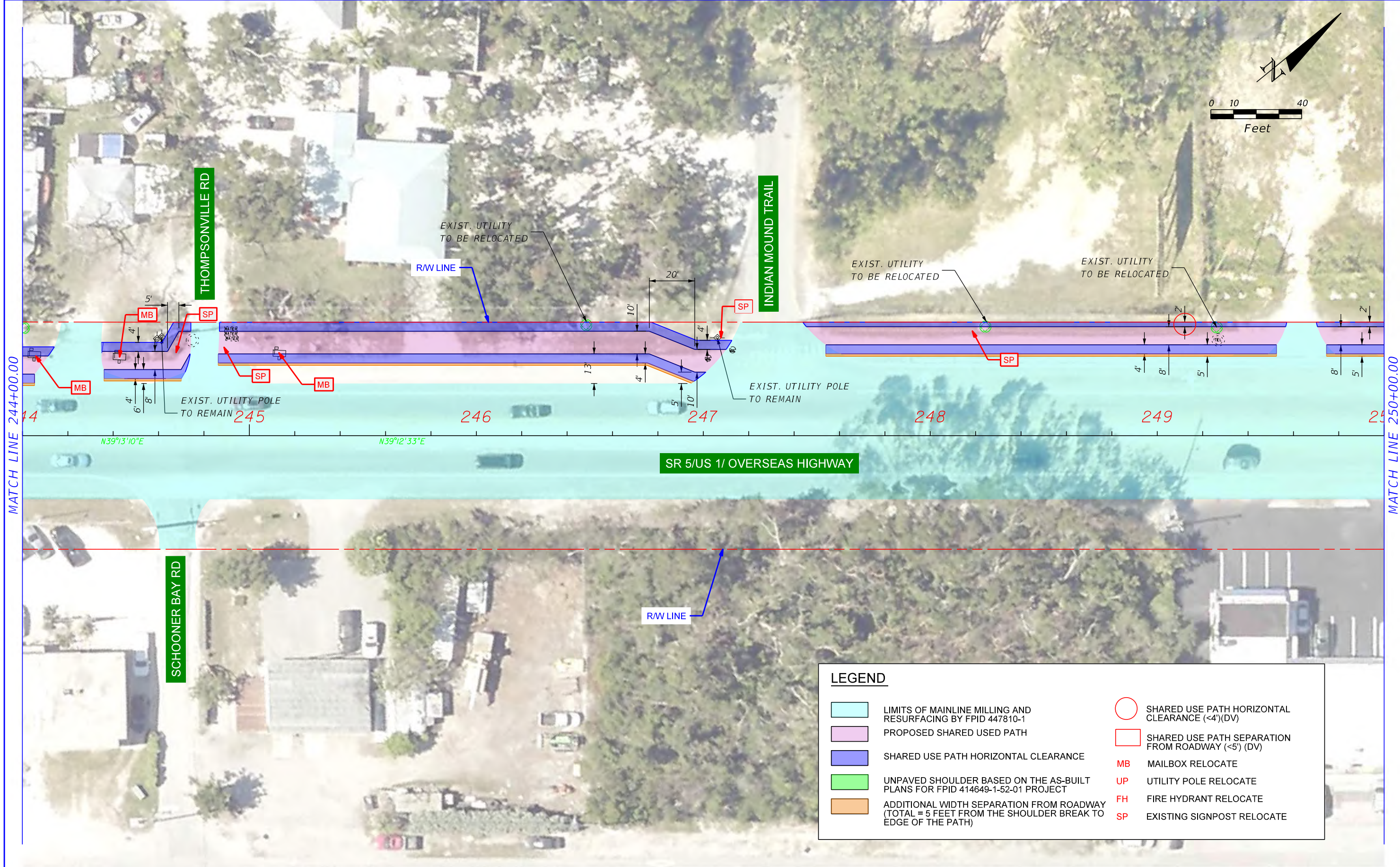
Kimley»Horn

355 ALHAMBRA CIRCLE, SUITE 1400 CORAL GABLES, FL 33134
PHONE: 305-673-2025
WWW.KIMLEY-HORN.COM
REGISTRY 35106

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
15



MATCH LINE 244+00.00

MATCH LINE 250+00.00

LEGEND	
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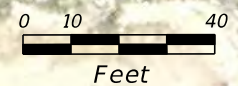
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SR 5	MONROE	421053-3-12-05

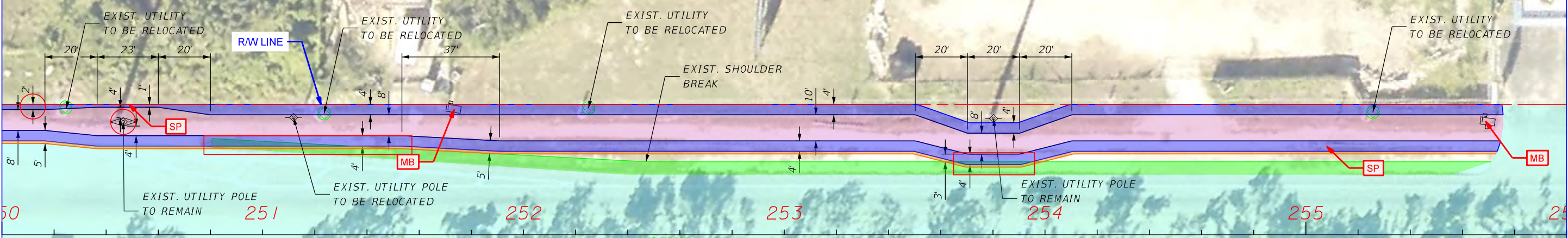
DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
16



MATCH LINE 250+00.00

MATCH LINE 256+00.00



SR 5/US 1/ OVERSEAS HIGHWAY

N39°12'33"E

LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
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	UTILITY POLE RELOCATE
	FIRE HYDRANT RELOCATE
	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

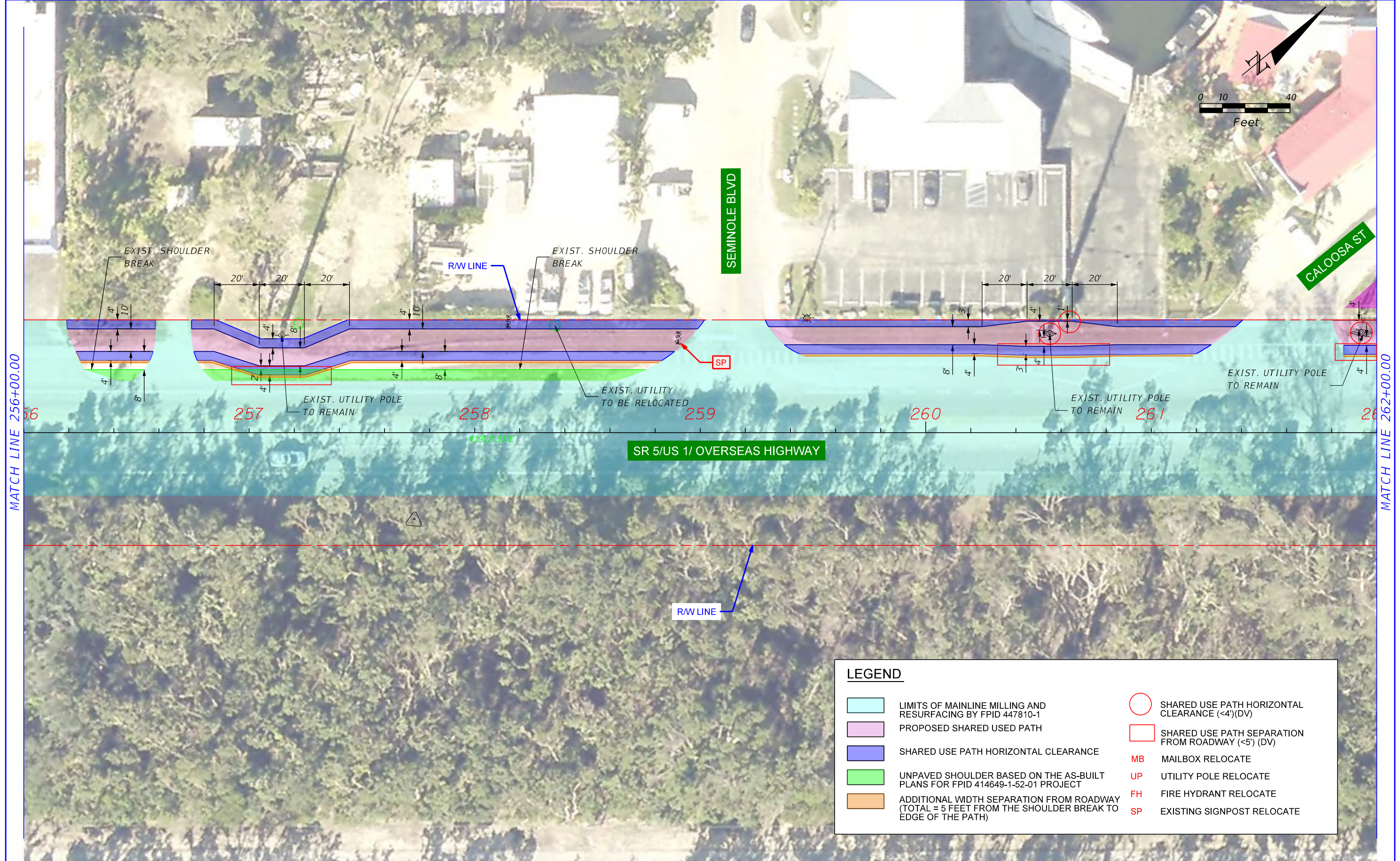
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
17



LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
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UP	UTILITY POLE RELOCATE
FH	FIRE HYDRANT RELOCATE
SP	EXISTING SIGNPOST RELOCATE

REVISIONS			
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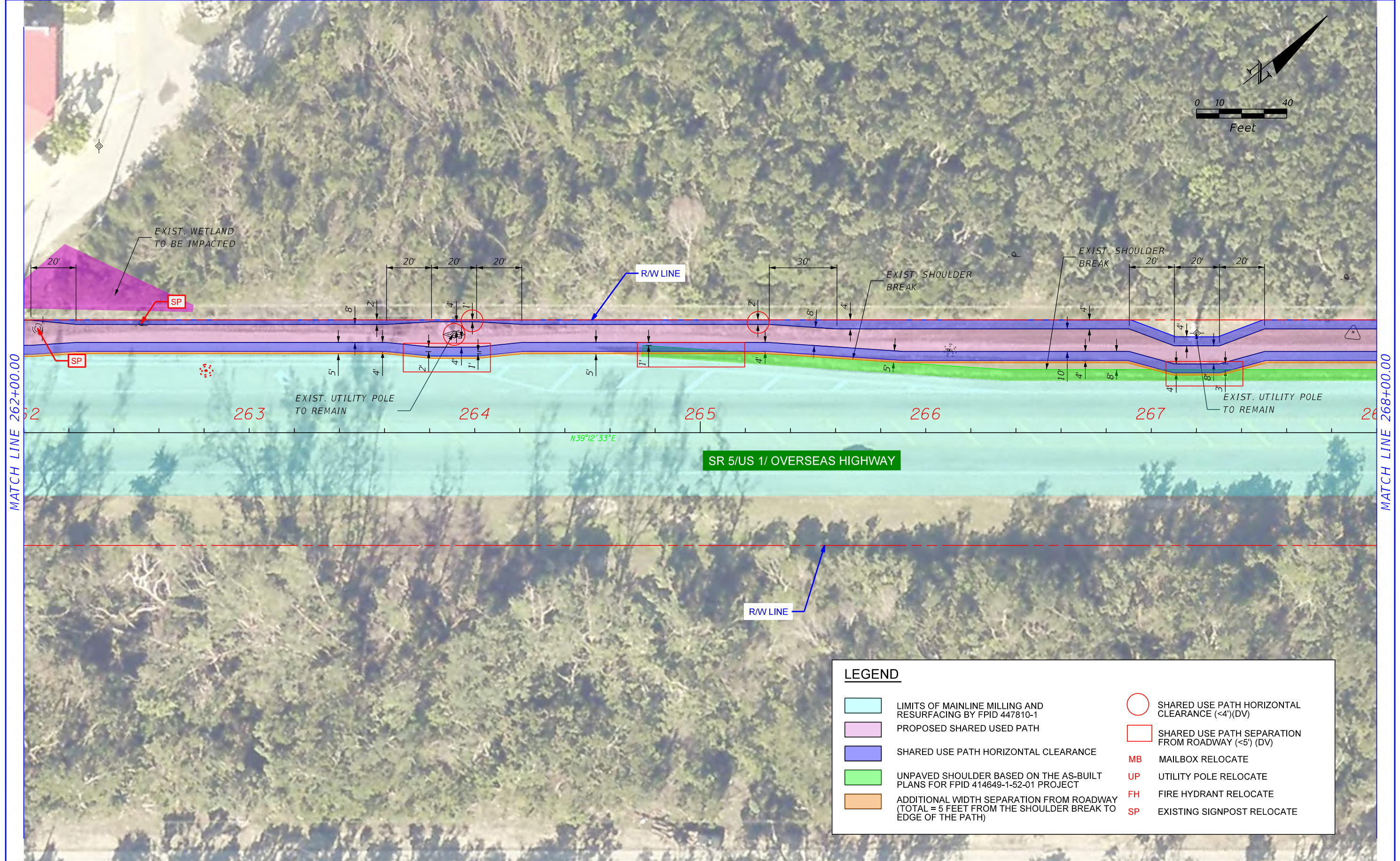
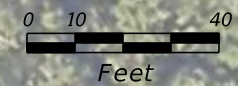
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
18



LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
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	FIRE HYDRANT RELOCATE
	EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

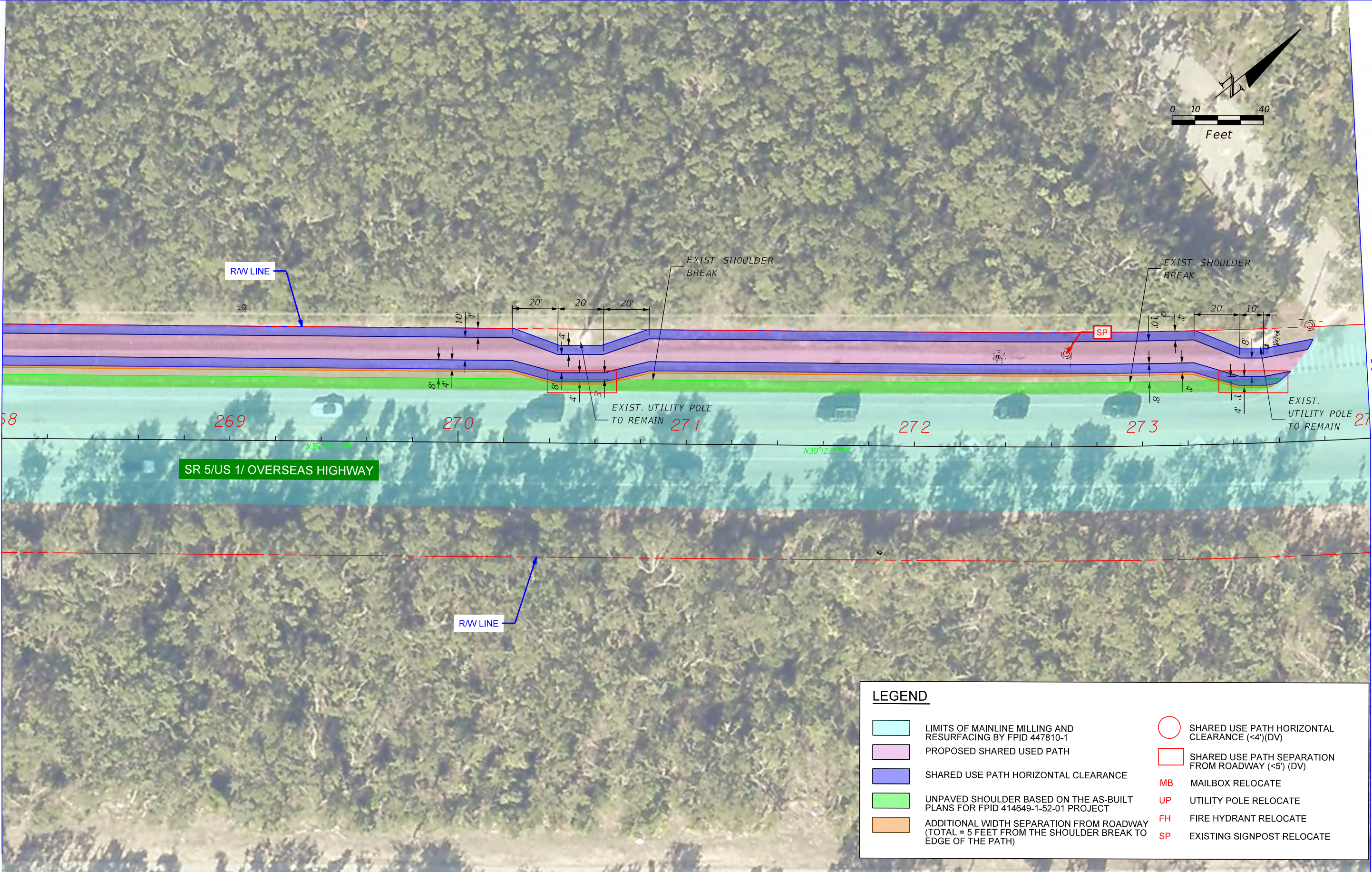
DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
19



MATCH LINE 268+00.00

MATCH LINE 274+00.00



SR 5/US 1/ OVERSEAS HIGHWAY

LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
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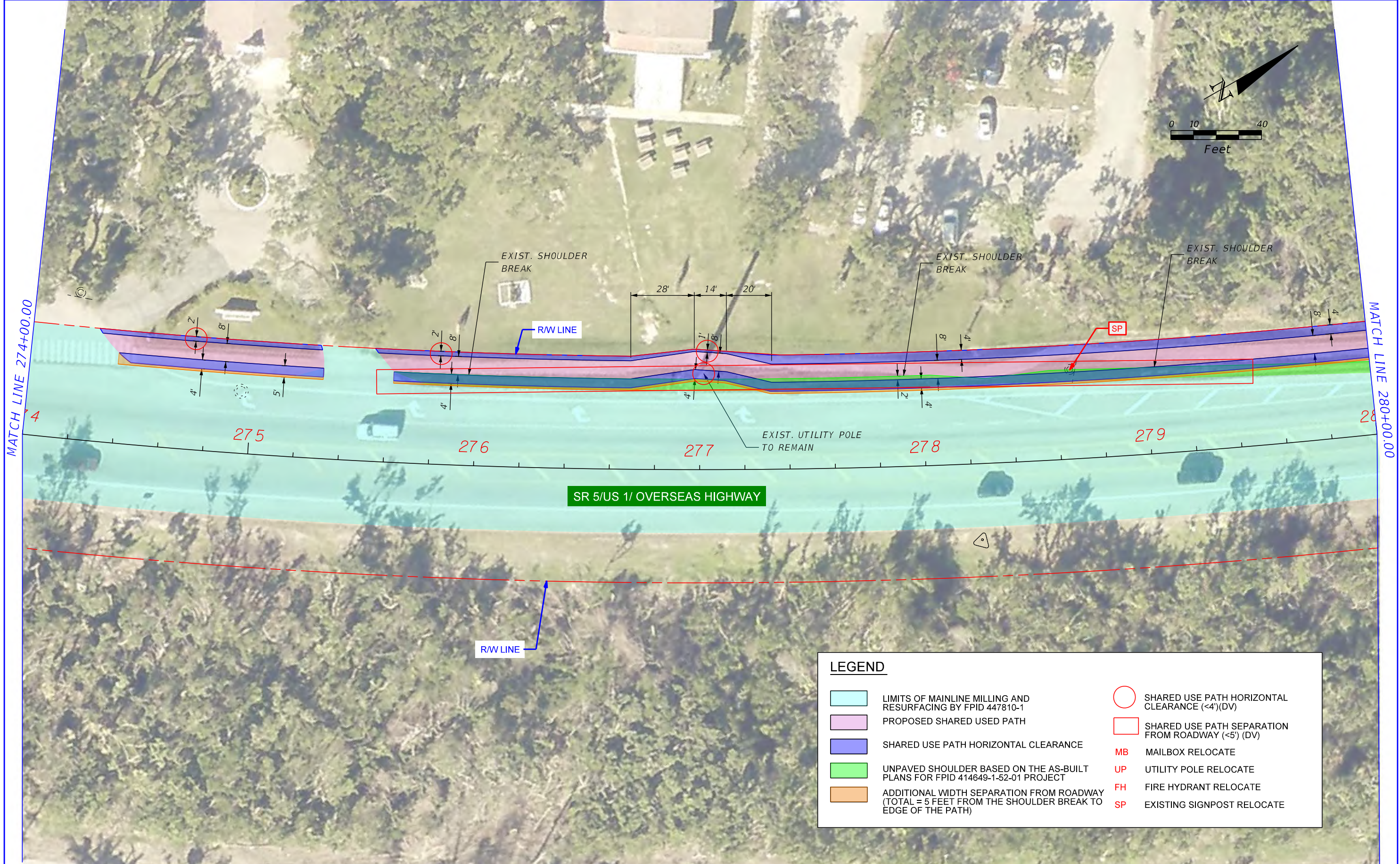
REVISIONS			
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
20



LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
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	SHARED USE PATH HORIZONTAL CLEARANCE
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	FIRE HYDRANT RELOCATE
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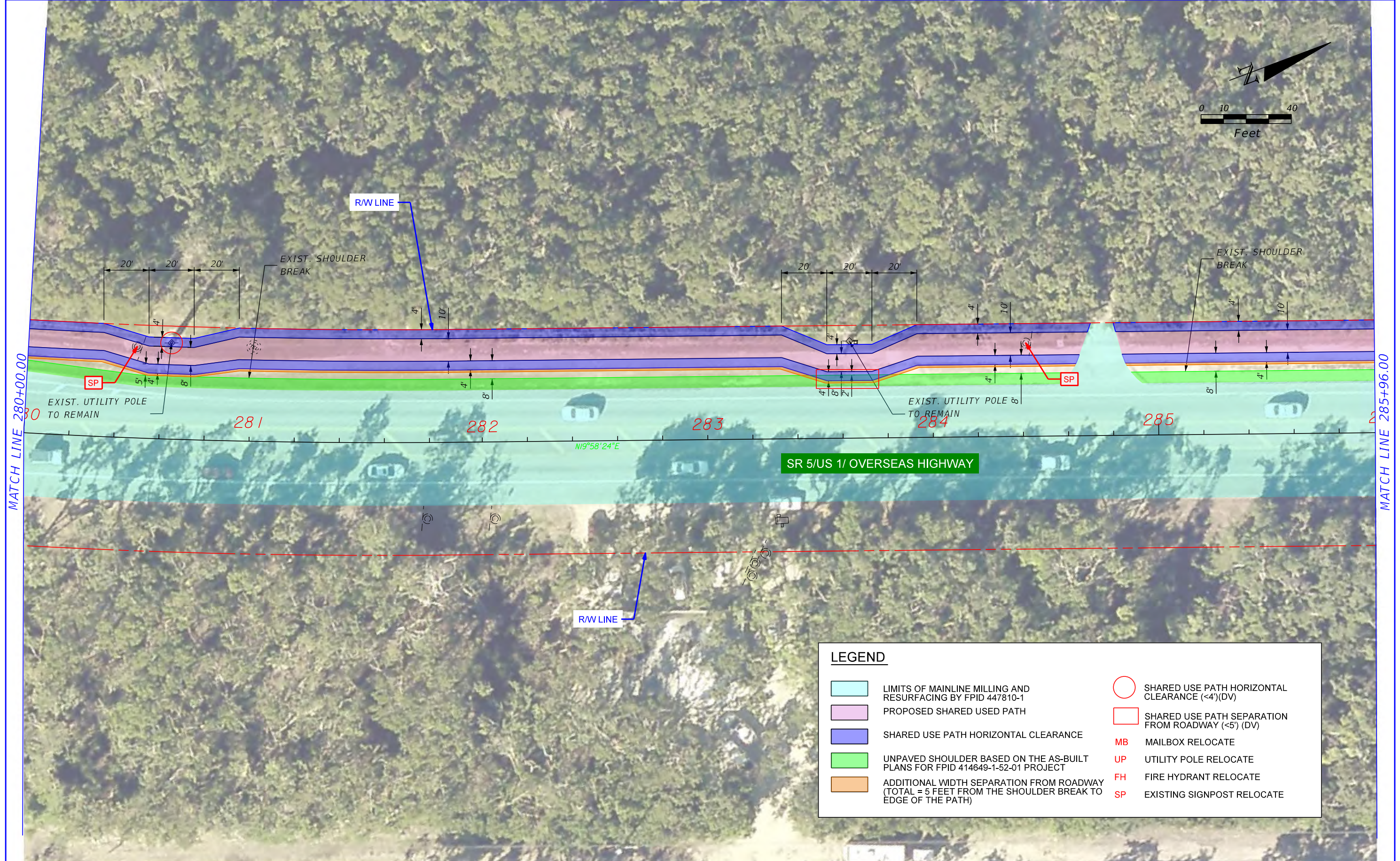
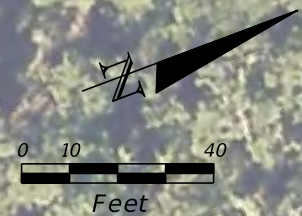
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
21



LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
	PROPOSED SHARED USED PATH
	SHARED USE PATH HORIZONTAL CLEARANCE
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	MAILBOX RELOCATE
	UTILITY POLE RELOCATE
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	EXISTING SIGNPOST RELOCATE

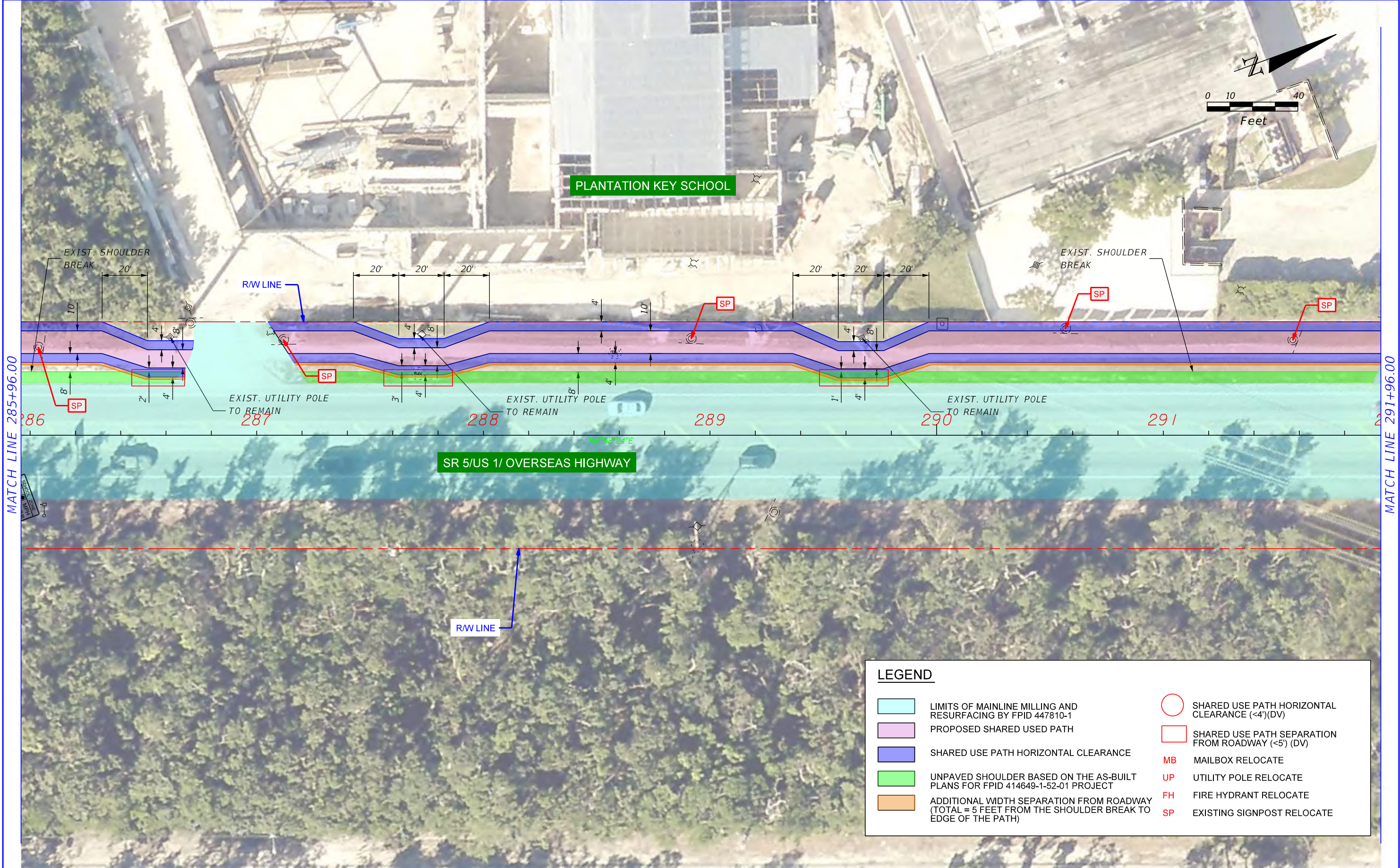
REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
22



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

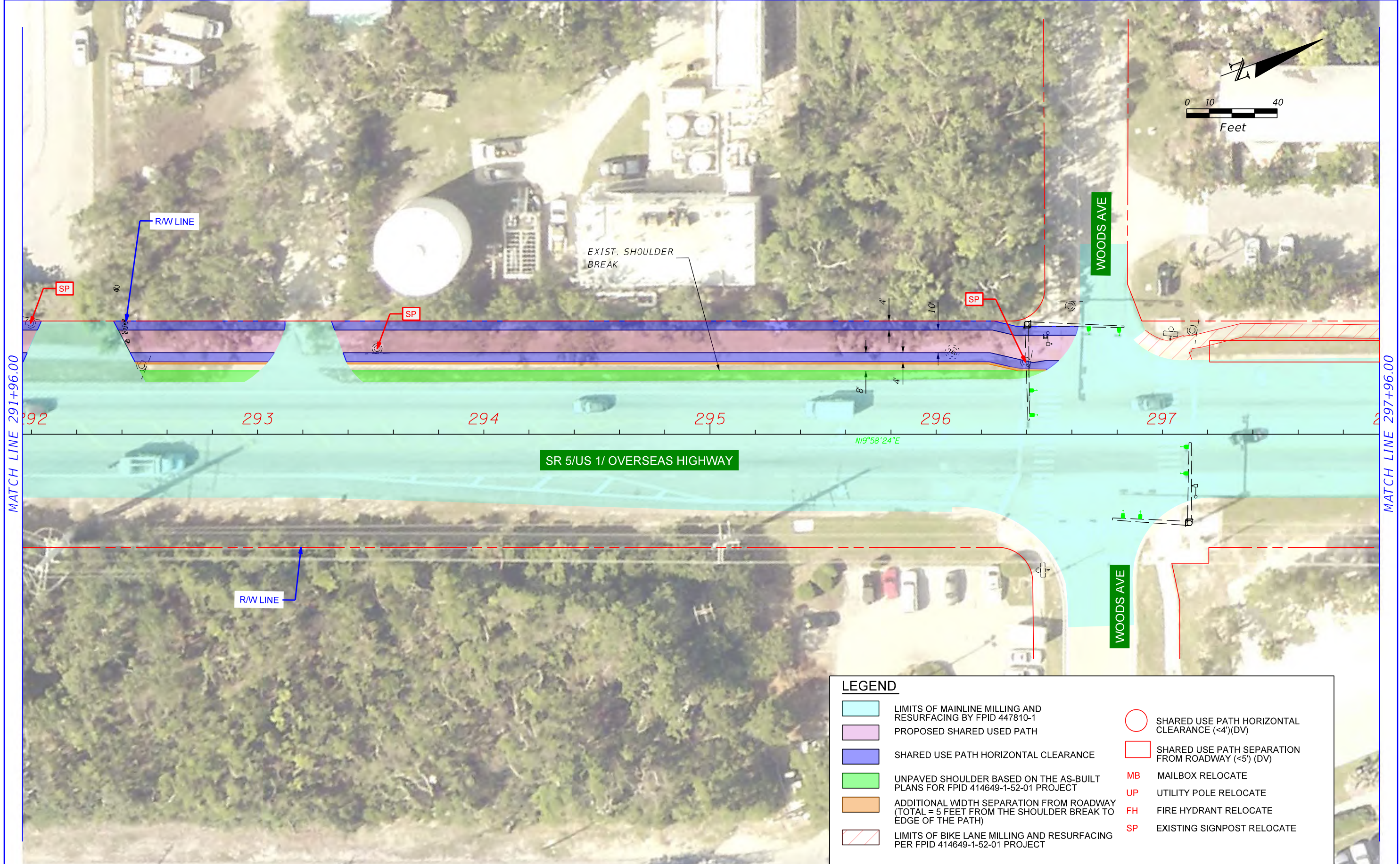
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
23



MATCH LINE 291+96.00

MATCH LINE 297+96.00

LEGEND	
	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1
	PROPOSED SHARED USED PATH
	SHARED USE PATH HORIZONTAL CLEARANCE
	UNPAVED SHOULDER BASED ON THE AS-BUILT PLANS FOR FPID 414649-1-52-01 PROJECT
	ADDITIONAL WIDTH SEPARATION FROM ROADWAY (TOTAL = 5 FEET FROM THE SHOULDER BREAK TO EDGE OF THE PATH)
	LIMITS OF BIKE LANE MILLING AND RESURFACING PER FPID 414649-1-52-01 PROJECT
	SHARED USE PATH HORIZONTAL CLEARANCE (<4')(DV)
	SHARED USE PATH SEPARATION FROM ROADWAY (<5') (DV)
MB	MAILBOX RELOCATE
UP	UTILITY POLE RELOCATE
FH	FIRE HYDRANT RELOCATE
SP	EXISTING SIGNPOST RELOCATE

REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

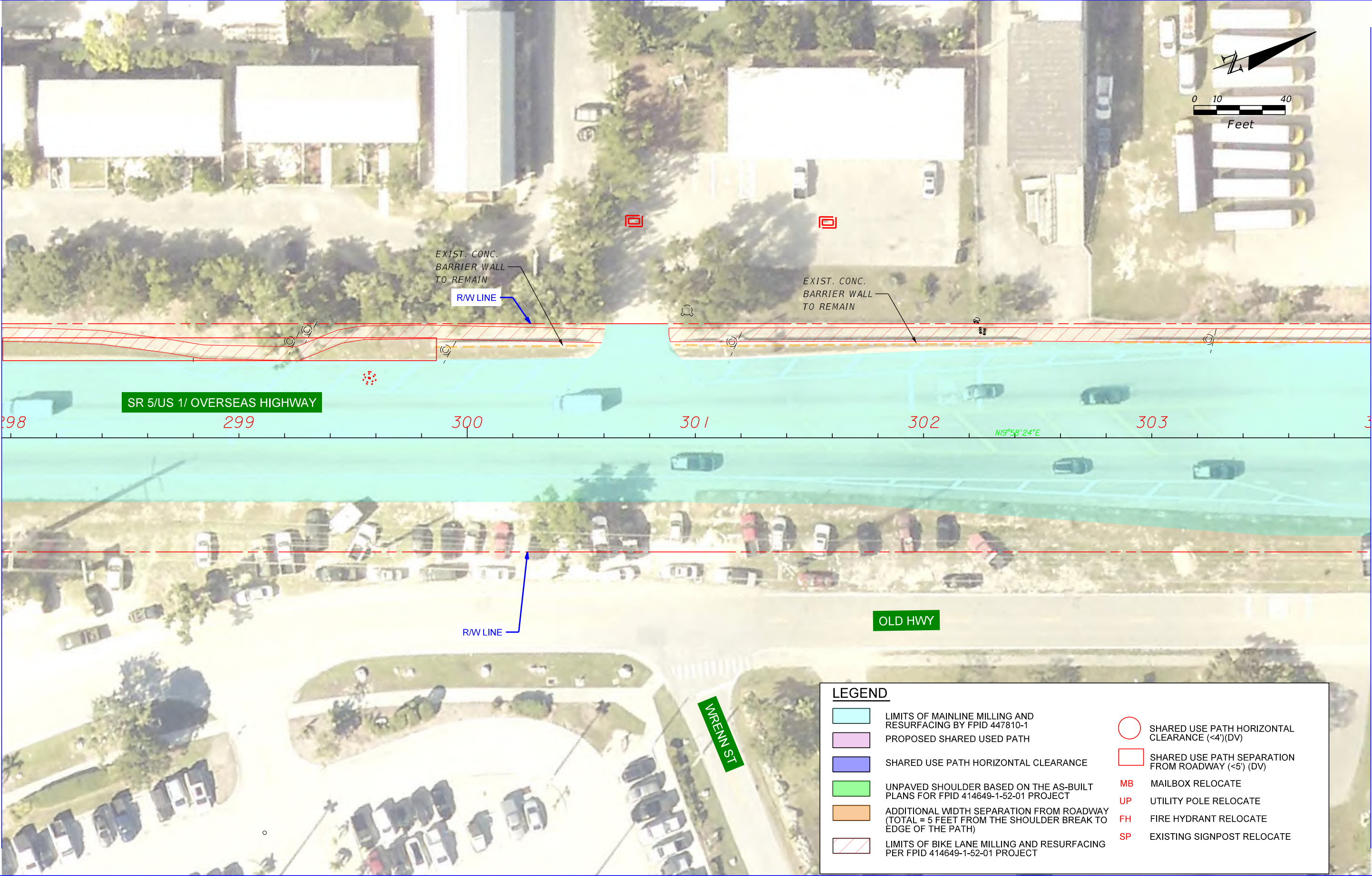
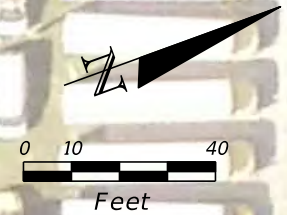
DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.

24

MATCH LINE 297+96.00

MATCH LINE 303+96.00



LEGEND

	LIMITS OF MAINLINE MILLING AND RESURFACING BY FPID 447810-1		SHARED USE PATH HORIZONTAL CLEARANCE (<4') (DV)
	PROPOSED SHARED USED PATH		SHARED USE PATH SEPARATION FROM ROADWAY (<5') (DV)
	SHARED USE PATH HORIZONTAL CLEARANCE		MAILBOX RELOCATE
	UNPAVED SHOULDER BASED ON THE AS-BUILT PLANS FOR FPID 414649-1-52-01 PROJECT		UTILITY POLE RELOCATE
	ADDITIONAL WIDTH SEPARATION FROM ROADWAY (TOTAL = 5 FEET FROM THE SHOULDER BREAK TO EDGE OF THE PATH)		FIRE HYDRANT RELOCATE
	LIMITS OF BIKE LANE MILLING AND RESURFACING PER FPID 414649-1-52-01 PROJECT		EXISTING SIGNPOST RELOCATE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Kimley»Horn
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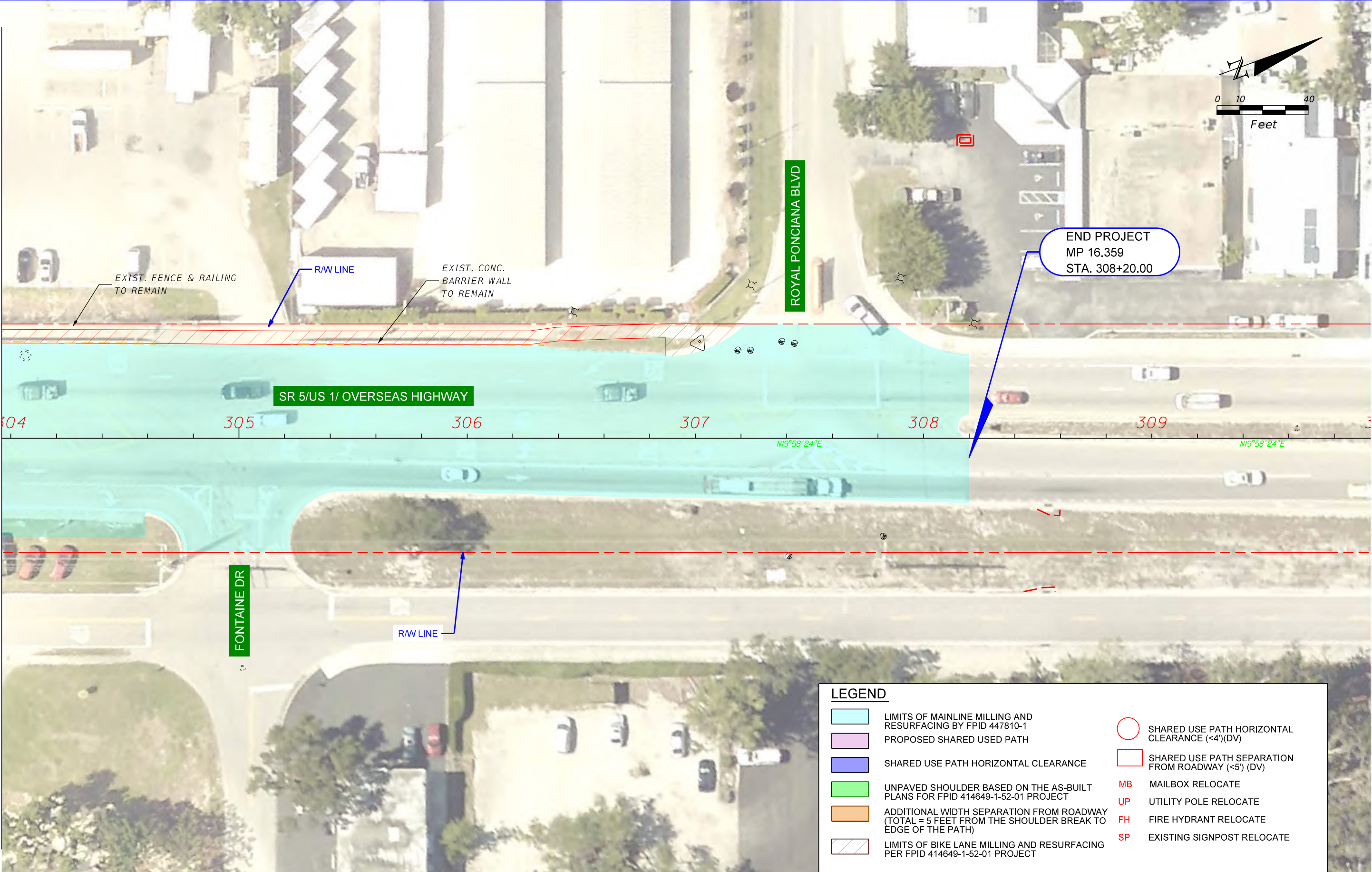
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
25



MATCH LINE 303+96.00



LEGEND	
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	421053-3-12-05

DEFICIENCIES AND RECOMMENDATIONS

SHEET NO.
26

Attachment C
Opinion of Probable Cost

OPINION OF PROBABLE COST
FM No. 421053-3-12-05 Contract No. CA289 Task Work Order 13
Overseas Highway Trail Improvement Feasibility Analysis

DATE: 3/28/2022

ITEM NUMBER	ITEM NAME	UNIT	QTY.	UNIT PRICE	TOTAL COST
ROADWAY ITEMS					
110 1 1	CLEARING AND GRUBBING	AC	6.6	\$ 16,410.92	\$ 108,148.00
0110 7 1	MAILBOX, F&I SINGLE	EA	14	\$ 196.82	\$ 2,756.00
120 6	EMBANKMENT	CY	7818	\$ 5.28	\$ 41,280.00
160 4	TYPE B STABILIZATION	SY	18766	\$ 0.85	\$ 15,952.00
285701	OPTIONAL BASE, BASE GROUP 01	SY	13277	\$ 11.11	\$ 147,508.00
334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	709	\$ 107.89	\$ 76,456.00
339 1	MISCELLANEOUS ASPHALT PAVEMENT	TN	97	\$ 226.30	\$ 21,952.00
536 1 1	GUARDRAIL-ROADWAY, GENERAL TL-3	LF	3385	\$ 27.10	\$ 91,734.00
536 85 20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	EA	38	\$ 1,619.65	\$ 61,547.00
536 85 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	38	\$ 3,263.62	\$ 124,018.00
570 1 2	PERFORMANCE TURF, SOD	SY	17009	\$ 3.26	\$ 55,450.00
ROADWAY TOTAL					\$ 746,801.00
SUBCOMPONENTS					
	SIGNING AND PAVEMENT MARKINGS (Includes Relocate Signs)	LS	5%	-	\$ 37,341.00
	LIGHTING (Includes Relocate Pole)	LS	3%	-	\$ 22,405.00
	UTILITIES	LS	10%	-	\$ 74,681.00
SUBCOMPONENTS TOTAL					\$ 134,427.00
101-1	MOBILIZATION	LS	10%	-	\$ 88,123.00
102-1	MAINTENANCE OF TRAFFIC	LS	10%	-	\$ 88,123.00
	PE, CEI, AND PERMITTING	LS	30%	-	\$ 264,369.00
	CONTINGENCY	LS	15%	-	\$ 132,185.00
GRAND TOTAL					\$ 1,454,000.00

Unit prices are per FDOT Item Average Unit for year 2021 Monroe County (Market Area 14) and Statewide From 2021/08/01 to 2022/01/31.

Opinion of Probable Cost does not include right-of-way acquisition, easements, survey, geotechnical information, and subsurface exploration.

Kimley-Horn and Associates, Inc. has no control over the cost of labor, materials, equipment, or services furnished by others, or over methods of determining price, or over competitive bidding or market conditions. Any and all professional opinions as to costs reflected herein, including but not limited to professional opinions as to the costs of construction materials, are made on the basis of professional experience and available data. Kimley-Horn and Associates, Inc. cannot and does not guarantee or warrant that proposals, bids, or actual costs will not vary from the professional opinions of costs shown herein.

Attachment D
Environmental Due Diligence

Memorandum

To: Gabriela Ramirez
Kimley-Horn and Associates, Inc.

From: Tori Bacheler
Kimley-Horn and Associates, Inc.

Date: March 21, 2022

RE: Environmental Due Diligence
Florida Department of Transportation District 6
Overseas Heritage Trail
FM Number: 447810-1-52-01
Monroe County, FL

Kimley-Horn and Associates, Inc. conducted a limited environmental due diligence of the above referenced project located along SR 5/US 1/Overseas Highway from Executive Bay Club/Mile Marker (MM) 87.16 to Royal Poinciana Boulevard/MM 90.02 in Islamorada, Monroe County, Florida (see *Figure 1 – Project Location Map*). Field reconnaissance was conducted on March 3, 2022 to review existing environmental conditions, to determine limits of potential wetlands onsite, and determine the potential Environmental Class of Action for the proposed project. The following is a summary of environmental resources found within the project limits.

Community Facilities and Services

Six community facilities were observed within the project vicinity and are listed below:

- Plantation Key School, 100 Lake Rd, Tavernier, FL 33070
- Spirit and Truth Ministries, 89655 Overseas Hwy, Tavernier, FL 33070
- San Pedro Catholic Church, 89500 Overseas Hwy, Tavernier, FL 33070
- Monroe County Plantation Key Government Center, 88820 Overseas Hwy, Tavernier, FL 33070
- Saint Adrians Church, Islamorada, FL 33036
- St James-Fishermen Episcopal Church, 87500 Overseas Hwy, Islamorada, FL 33036

Although these facilities are located on or in the vicinity of Overseas Highway, no R/W or access changes are likely to occur to these facilities as a result of this project. Temporary construction impacts to these resources, such as noise and air in the form of dust from earthwork, may occur as a result of this proposed project. Access should be maintained throughout the duration of construction to these facilities and no staging of construction equipment should occur within these community facilities.

Section 4(f) of the Department of Transportation

There were no resources protected under Section 4(f) of the Department of Transportation Act found within the project limits. Therefore, no further action is required and no Section 4(f) involvement is anticipated with this project.

Wetlands

The project limits were visually screened for the presence of wetlands as defined in the "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1 and Chapter 62-340, Florida Administrative Code (F.A.C.). The results of the field reconnaissance indicate there are wetlands located immediately adjacent but not within the ROW of Overseas Highway (see **Figure 2 – Wetland Map**). If the proposed construction can be limited to the existing ROW of Overseas Highway, then wetland impacts can be avoided. Secondary wetland impacts should be considered and minimized utilizing Best Management Practices (BMPs) during construction.

Endangered and Threatened Species

Wildlife resources reviewed for this project included GIS data available from the United States Fish and Wildlife Service (USFWS; <http://www.fws.gov>), Florida Fish and Wildlife Conservation Commission (FWC; <http://myfwc.com/research/gis/>), and the University of Florida GeoPlan Center (www.fgdl.org). The project is located within USFWS Consultation Areas for the West Indian manatee (*Trichechus manatus*), Schaus' swallowtail butterfly (*Papilio aristodemus*), piping plover (*Charadrius melodus*), Miami-Dade Keys plants, and the American crocodile (*Crocodylus acutus*) (see **Figure 3 – Listed Species Map**). There is no habitat within Overseas Highway ROW to support any of these species, and therefore, it is unlikely the project would negatively affect these species. The project is located within the Core Foraging Area (CFA) of two wood stork (*Mycteria americana*) colonies (Lower Taylor Slough, and Madeira). The CFA is defined as an 18.6-mile radius around known wood stork colonies. However, there is no foraging habitat within the project limits for the wood stork. This project is unlikely to negatively affect this species.

Contamination

A preliminary evaluation of the project area was conducted to identify potentially contaminated sites that may impact the proposed project. This analysis included a desktop review of the FDEP Map Direct website and readily available documents from FDEP's OCULUS database. No potentially contaminated sites were found throughout the project limits.

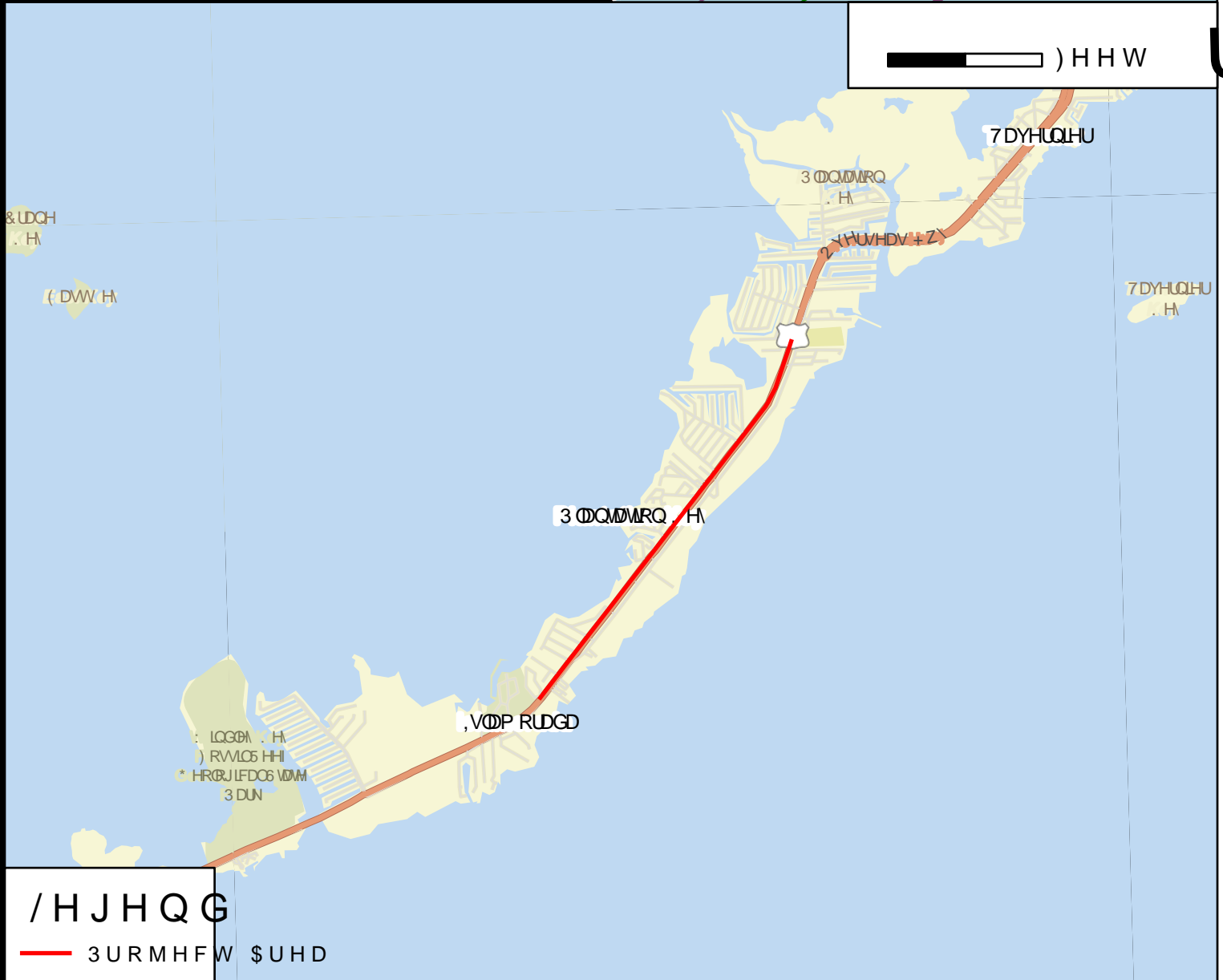
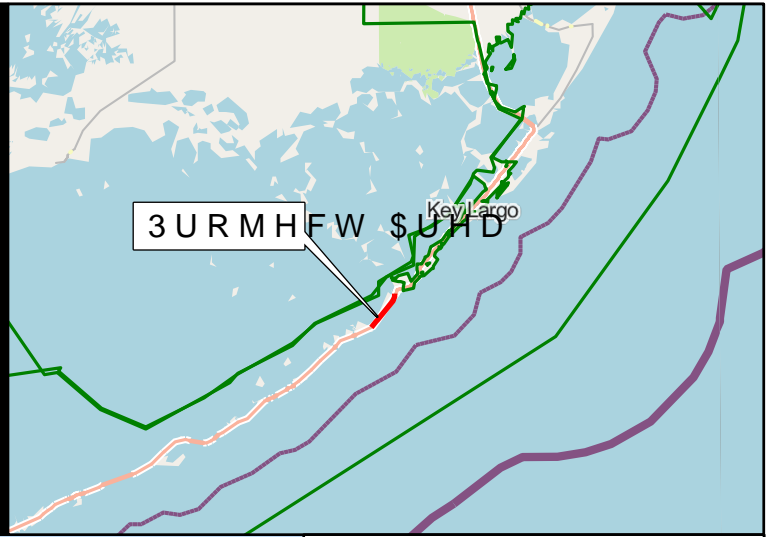
Permits

The project can likely qualify for an exemption through South Florida Water Management District (SFWMD) pursuant to 62-330.051(10) F.A.C, if direct wetland impacts can be avoided. The paths must have a width of eight feet or less for pedestrian paths, and 14 feet or less for multi-use recreational paths. If wetland impacts cannot be avoided, an Individual Permit through SFWMD will be required and a USACE permit would also be required.

A National Pollutant Discharge Elimination System (NPDES) permit will be required from the FDEP and the contractor will be responsible for obtaining before construction.

Summary

This project has been reviewed and it is likely the project Environmental Class of Action will be a Type I Categorical Exclusion (CE), as described in Part 1, Chapter 2, Class of Action Chapter of the Project Development and Environment (PD&E) Manual.



3URMHFW /RFDWLRQ ODS

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ORQRH &RXQW\)ORULGD

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7KH SURMHFW OLPLWV DUH ZLWKLQ WZR ZRRG VWRUN &RUH)RUDJLQJ \$UHDV
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7KH :HVW ,QGLDQ PDQDWHH OHDVW WHUQ DQG URVHDWH VSRROELOO ZHUH
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VZDOORZWDLO EXWWHUIO\ SLSLQJ SORYHU :HVW ,QGLDQ PDQDWHH OLDP
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G. Long Range Estimates (LRE)

FDOT Long Range Estimating System - Production

R4: Project Details Composite Report By Version

Project: 449738-1-52-01

Letting Date: 11/2025

Description: SR 5/US-1/OVERSEAS HWY FROM WEST OF VENETIAN BLVD TO FRONTAINE DRIVE

District: 06 County: 90 MONROE

Project Manager: DANU, NICHOLAS

Version 1-P Project Grand Total

\$4,646,400.42

Description: SR 5/US-1/OVERSEAS HWY FROM WEST OF VENETIAN BLVD TO FRONTAINE DRIVE

Pay Items

Pay Item	Description	Total Unit Quantity	Weighted Avg. Unit Price	Total Amount
102-1	MAINTENANCE OF TRAFFIC	10.00		\$379,867.80
101-1	MOBILIZATION	10.00		\$417,854.58
104-15	SOIL TRACKING PREVENTION DEVICE	2.00 EA	\$3,007.68	\$6,015.36
104-18	INLET PROTECTION SYSTEM	60.00 EA	\$124.18	\$7,450.80
107-1	LITTER REMOVAL	45.00 AC	\$22.73	\$1,022.85
107-2	MOWING	5.00 AC	\$67.10	\$335.50
110-1-1	CLEARING & GRUBBING	2.43 AC	\$60,739.08	\$147,595.96
110-4-10	REMOVAL OF EXIST CONC	600.00 SY	\$50.84	\$30,504.00
110-22	TREE ROOT AND BRANCH PRUNING	20.00 EA	\$1,653.97	\$33,079.40
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	1,378.68 CY	\$45.86	\$63,226.26
285-701	OPTIONAL BASE,BASE GROUP 01	1,700.00 SY	\$43.12	\$73,304.00
285-704	OPTIONAL BASE,BASE GROUP 04	1,200.00 SY	\$47.78	\$57,336.00
285-709	OPTIONAL BASE,BASE GROUP 09	1,100.00 SY	\$48.65	\$53,515.00
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	11,170.93 SY	\$4.67	\$52,168.24
327-70-11	MILLING EXIST ASPH PAVT,2 1/4" AVG DEPTH	41,620.48 SY	\$6.00	\$249,722.88
334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	150.00 TN	\$234.72	\$35,208.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	4,449.04 TN	\$206.44	\$918,459.82
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	2,141.66 TN	\$413.25	\$885,041.00
339-1	MISCELLANEOUS ASPHALT PAVEMENT	169.33 TN	\$389.03	\$65,874.45
425-5-1	MANHOLE, ADJUST, UTILITIES	20.00 EA	\$911.77	\$18,235.40
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	500.00 SY	\$116.88	\$58,440.00
527-2	DETECTABLE WARNINGS	100.00 SF	\$47.16	\$4,716.00
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	5,000.00 LF	\$33.79	\$168,950.00
536-85-24	GUARDRAIL END TREATMENT- PARA APP TERM	8.00 EA	\$3,604.00	\$28,832.00
570-1-1	PERFORMANCE TURF	9,268.04 SY	\$2.34	\$21,687.21
570-1-2	PERFORMANCE TURF, SOD	20,000.00 SY	\$6.20	\$124,000.00
630-2-11	CONDUIT, F& I, OPEN TRENCH	300.00 LF	\$21.28	\$6,384.00
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24"	6.00 EA	\$1,417.57	\$8,505.42
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	3.00 AS	\$588.44	\$1,765.32
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	40.00 AS	\$1,790.17	\$71,606.80

700-1-50	SINGLE POST SIGN, RELOCATE	3.00 AS	\$453.42	\$1,360.26
700-1-60	SINGLE POST SIGN, REMOVE	40.00 AS	\$66.17	\$2,646.80
700-2-13	MULTI- POST SIGN, F&I GM, 21-30 SF	3.00 AS	\$6,739.42	\$20,218.26
700-2-60	MULTI- POST SIGN, REMOVE	3.00 AS	\$816.14	\$2,448.42
700-12-12	SIGN BEACON, F&I GM- AC, TWO BEACONS	1.00 AS	\$9,899.98	\$9,899.98
706-1-3	RAISED PAVMT MARK, TYPE B	200.00 EA	\$3.93	\$786.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	2.96 GM	\$1,503.90	\$4,451.54
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	1.48 GM	\$399.98	\$591.97
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	400.00 LF	\$1.88	\$752.00
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	300.00 LF	\$4.01	\$1,203.00
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	20.00 EA	\$109.41	\$2,188.20
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	60.00 EA	\$57.47	\$3,448.20
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	5,000.00 LF	\$2.94	\$14,700.00
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	2.96 GM	\$6,322.23	\$18,713.80
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	1.48 GM	\$1,400.22	\$2,072.33
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,000.00 LF	\$7.40	\$7,400.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	1.00 EA	\$10,721.13	\$10,721.13
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	1.00 EA	\$2,094.48	\$2,094.48
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)	1.00 LS	\$50,000.00	\$50,000.00
999-25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	1.00 LS	\$500,000.00	\$500,000.00
Project Unknowns		0.00 %		\$0.00
Design/Build		0.00 %		\$0.00

Version 1-P Project Grand Total

\$4,646,400.42

H. Context Class and Target Speed Memo

Target Speed Review

FDM Requirements and Guidance

Per the Florida Design Manual (FDM) 205.1.1, "it is considered best practice to provide initial Target Speed values as a part of the Context Classification determination." The Planning Office is conducting initial Target Speed evaluations as a part of the RRR candidate process to inform the RRR Scope and incorporate any recommended speed management measures.

When setting the Target Speed, FDM 201.5.1 (provided in Appendix A) states "the Target Speed must:

- Be within the range of Design Speeds for the context classification (see Table 201.5.1);
- Reflect the needs of safety, quality of life, and economic development of the corridor; and
- Be established by a team that includes, but is not limited to, Design, Traffic Operations, Safety, Planning, and Program Management offices."

Additionally, FDM 201.5.1 provides the following guidance when determining the Target Speed:

- "In C2T through C6, consider starting with target speeds on the lower end of the range with justification provided for higher speeds...See the FDOT Context Classification Guide for more information about determining appropriate target speed."

The FDOT Context Classification Guide (excerpt provided in Appendix B), provides the steps to determine the target speed.

1. Determine *FDM* Consistency
2. Identify Starting Point for Target Speed
3. Identify Project Needs
 - a. Who are the intended users? Are pedestrians, bicyclists, and transit riders traveling along or across the roadway?
 - b. What are potential safety challenges? Are safety needs identified on the Safety Needs List Dashboard? Does crash data identify bicycle or pedestrian crashes? What is the frequency, severity, and key crash patterns of auto crashes?
 - c. Are there special population groups using the corridor (lower income, 0-car households, aging population, school age children)?
 - d. What is the level of community support? Has the community requested lower speeds?
 - e. What is the transportation role of the roadway in the network? Is it used to access destinations? What is the density of driveways, side streets, and signals?
4. Review Potential Countermeasures
5. Document Target Speed

PLEMO Target Speed Review and Recommendations

The Planning Office has conducted a Target Speed review of the corridor consistent with the FDM and the FDOT Context Classification Guide. The results of the Target Speed Review are presented below:

1. Determine FDM Consistency

- a. The allowable design speed range per the FDM is the following:
 - i. C3R and C3C – (35 – 55 mph)
 - ii. Note the existing design speed is 55 mph, and the existing posted speed is 45 mph.

2. Identify Starting Point for Target Speed

- a. Per the **FDOT Context Classification Guide**, the starting point for target speed in C3R and C3C is the low end of the target speed range (35 mph), and any increase should be justified.

3. Identify Project Needs

- a. Who are the intended users? Are pedestrians, bicyclists, and transit riders traveling along or across the roadway?
 - i. The corridor serves a variety of roadway users including pedestrians, bicyclists, and vehicles. There is likely a high concentration of tourists.
- b. What are potential safety challenges? Are safety needs identified on the Safety Needs List Dashboard? Does crash data identify bicycle or pedestrian crashes? What is the frequency, severity, and key crash patterns of auto crashes?
 - i. From the RRR Safety Report, two high crash spots are present (NB Off Weigh; Venetian Boulevard) and one high crash segment (south of Smugglers Marine to north of Venetian Boulevard). From 2017 – 2022, zero pedestrian crashes and one bicycle crash occurred along the study segment. There were four fatal crashes that occurred from 2015 – 2019.
- c. Are there special population groups using the corridor (lower income, 0-car households, aging population, school age children)?
 - i. Based on a review of the FHWA's Transportation Disadvantage Census Tracts, the corridor is located in no Historically Disadvantaged Census Tracts. There is a charter school located at the intersection of Old Highway.
- d. What is the level of community support? Has the community requested lower speeds?
 - i. In the US-1 Master Plan, completed September 2021, specifically identified speeding issues close to Robbie's Marina, but not in this segment. From the input surveys, the community generally noted a speeding concern along SR 5 / US 1. The US-1 Master Plan also states that FDOT is evaluating a request for an at-grade pedestrian crosswalk at Founders Park.
- e. What is the transportation role of the roadway in the network? Is it used to access destinations? What is the density of driveways, side streets, and signals?
 - i. SR 5 / US 1 / Overseas Highway connects the mainland of Florida to the Florida Keys stretching all the way south to Key West. It is a key corridor attracting tourists and a critical evacuation route. This segment of SR 5 does not have any traffic signals. The driveway access mainly connects to single-family residential neighborhoods with connections to commercial uses as well.

4. Review Potential Countermeasures:

Potential countermeasures are identified in FDM Table 202.3.1 by Context Classification and Target Speed. Existing speed management strategies are summarized below:

Existing Speed Management Strategies

- Horizontal curve south of Executive Bay Drive.

Additional Speed Management countermeasures to consider will be provided as an ERC comment by a separate PLEMO representative.

Document Target Speed

Given the bicycle and pedestrian activity, crash history, the context classification, and guidance from the FDM and FDOT Context Classification Guide, a Target Speed of 40-mph is recommended for SR 5 from west of Venetian Boulevard to north of Executive Bay Club for this RRR project.

Conclusion

The Planning Office is conducting Project-level Context Classification (PLCC) reviews as projects are conducted. The purpose of these reviews is to re-evaluate at a more granular level the original systemwide Context Classification (CC) assignments.

The PLCC for SR 5 / US 1 / Overseas Highway from west of Venetian Boulevard to Treasure Harbor Drive is C3C – Suburban Commercial, and C3R – Suburban Residential from Treasure Harbor Drive north of Executive Bay Club. Please update the RRR Scope with the respective context classification for this segment.

The Planning Office is also conducting Target Speed reviews for RRR scopes. The Target Speed review concluded that given the bicycle and pedestrian activity, crash history, the context classification, and guidance from the FDM and FDOT Context Classification Guide, a Target Speed of 40-mph is recommended for this RRR project.

Appendix A
FDM 201.5.1 Design Speed Selection

201.5.1 Design Speed Selection

Design Speed should be selected early in the design process and should reflect the Target Speed (see below). Select a context-appropriate Design Speed to attain a desired degree of safety, mobility, and efficiency. Where the initial recommended Target Speed value is not feasible to attain in a single project, the Target Speed should be as close to the initial Target Speed values as can be achieved within the constraints of the project. Adjust both the Design Speed and Target Speed as appropriate to achieve a single value appropriate to the project. Select Design Speeds in increments of 5 mph.

Target Speed is the highest speed at which vehicles should operate on a thoroughfare in a specific context, consistent with the level of multi-modal activity generated by adjacent land uses, to provide both mobility for motor vehicles and a supportive environment for pedestrians, bicyclists, and public transit users. Determine appropriate Target Speed for all non-limited access projects where a Design Speed is also required. The Target Speed must:

- Be within the range of Design Speeds for the context classification (see **Table 201.5.1**);
- Reflect the needs of safety, quality of life, and economic development of the corridor; and
- Be established by a team that includes, but is not limited to, Design, Traffic Operations, Safety, Planning, and Program Management offices.

It is expected that initial Target Speed values may be modified during project scoping to achieve the Target Speed as additional information is gathered and project scoping decisions are made. See the **FDOT Context Classification Guide** for more information about determining appropriate Target Speed.

In general, the Target Speed for C1 and C2 roadways should be on the higher end of the Design Speed range, with justification provided for lower speeds. In C2T through C6, consider starting with Target Speeds on the lower end of the range with justification provided for higher speeds.

It is considered a best practice to provide initial Target Speed values as part of the Context Classification determination. These initial values can be an effective starting point for the establishment of the Target Speed. For RRR projects where the initial Target Speed value is below the existing Design Speed or Posted Speed Limit, see **FDM 202** for Speed Management techniques to better align the Design Speed with Target Speed. In many cases, the Design Speed and the initial Target Speed values may both need to be changed to arrive at a Target Speed appropriate for the project.

*Commentary: The 85th-percentile observed speed is a starting point when traffic engineers conduct a speed study for setting speed limits (see the **FDOT Speed Zoning Manual** for more information, if desired.). The 85th percentile speed should be considered when selecting the Target Speed, but the Target Speed does not have to match the 85th-percentile speed.*

In many cases, speed management is required because the existing 85th-percentile speed is too high for current conditions, so setting Target Speed equal to the existing 85th-percentile speed would fail to accomplish the speed management objectives. The primary value of knowing the existing 85th percentile speed is to understand the potential magnitude of speed management interventions that may be required to achieve a selected Target Speed. Large speed reductions of more than 10 mph, for instance, may need to be approached incrementally over several projects, rather than achieved at once on a single project.

The District Design Engineer (DDE) and the District Traffic Operations Engineer (DTOE) jointly approve the selected Design and Posted Speeds. This approval is a declaration that the Posted Speed will not exceed the selected Design Speed. This is to be documented on the Typical Section Package as described in **FDM 120.2.3**.

Table 201.5.1 provides an allowable range of mainline Design Speeds on the State Highway System. **Table 201.5.2** provides the minimum Design Speeds allowed on ramps.

Modification for Non-Conventional Projects:
See RFP for Design Speed and Target Speed.

Table 201.5.1 Design Speed

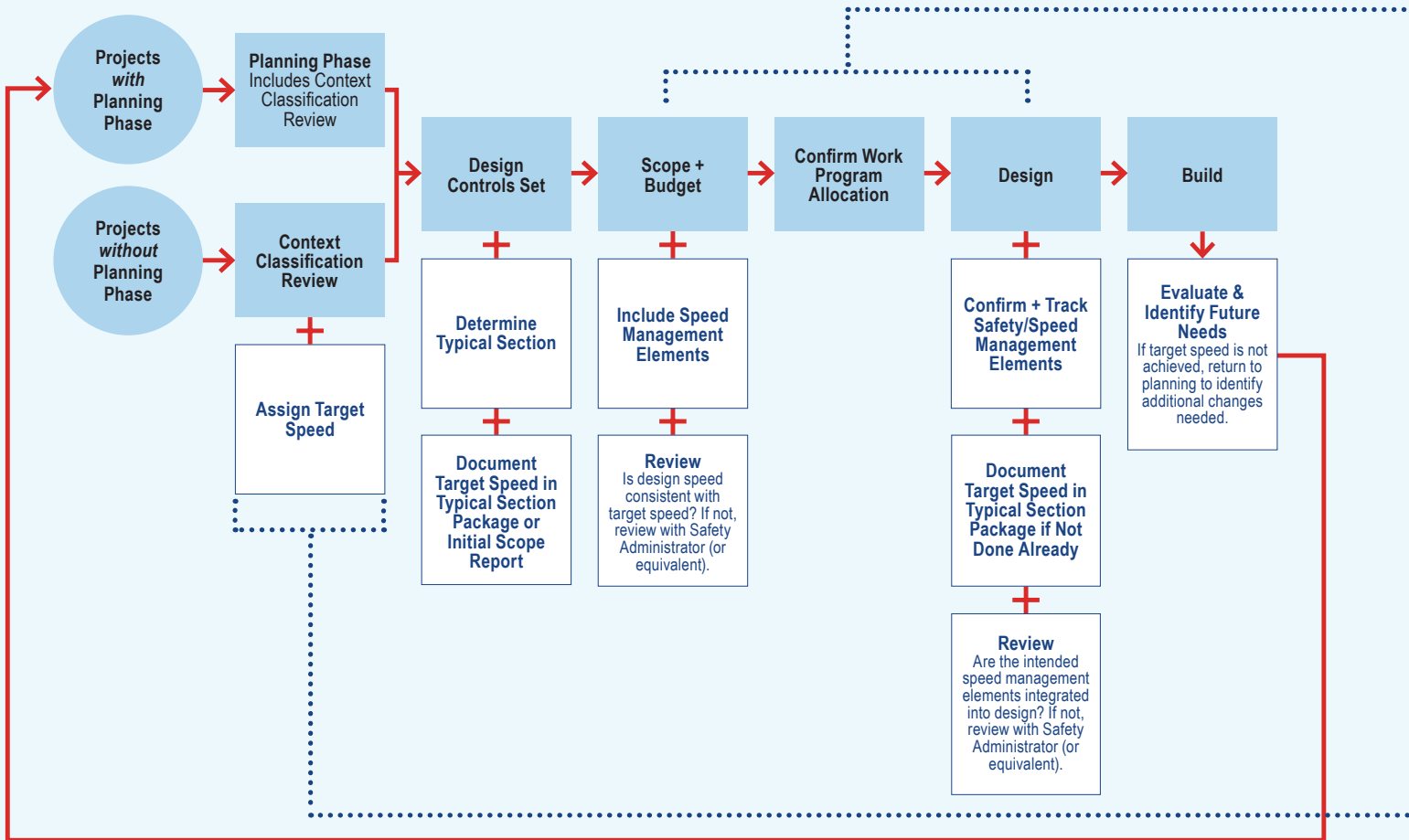
Limited Access Facilities (Interstates, Freeways, and Expressways)		
Area	Allowable Range (mph)	SIS Minimum (mph)
Rural and Urban	70	70
Urbanized	50-70	60
Arterials and Collectors		
Context Classification	Allowable Range (mph)	SIS Minimum (mph)
C1 Natural	55-70	65
C2 Rural	55-70	65
C2T Rural Town	25-45	40
C3 Suburban	35-55	50
C4 Urban General	25-45	45
C5 Urban Center	25-35	35
C6 Urban Core	25-30	30
<p>Notes:</p> <ul style="list-style-type: none"> (1) SIS Minimum Design Speed may be reduced to 35 mph for C2T Context Classification when appropriate design elements are included to support the 35-mph speed, such as on-street parking. (2) SIS Minimum Design Speed may be reduced to 45 mph for curbed roadways within C3 Context Classification. (3) For SIS facilities on the State Highway System, a selected Design Speed less than the SIS Minimum Design Speed requires a Design Variation as outlined in SIS Procedure (Topic No. 525-030-260). (4) For SIS facilities not on the State Highway System, a selected Design Speed less than the SIS Minimum Design Speed may be approved by the District Design Engineer following a review by the District Planning (Intermodal Systems Development) Manager. 		

Appendix B
Context Classification Guide Target Speed Guidance

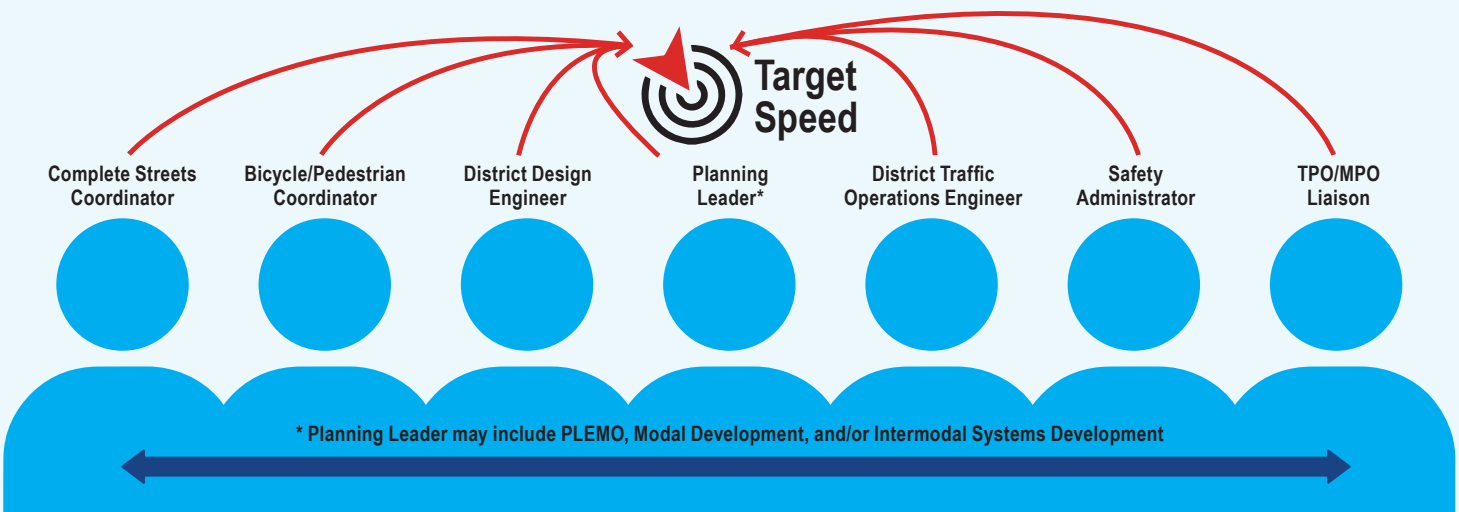
DETERMINING THE TARGET SPEED

The target speed must be identified early in the development process to inform and influence the selection and establishment of the design speed. Each District should define its own process for setting target speeds, including the individuals responsible. **Figure 19** shows an example process that identifies target speeds during the planning phase of the project and at the same time that the context classification is determined. Many datapoints used to define context classification also aid in determining target speed. **Districts should develop and adjust the process as needed to meet their unique needs, maintaining the key element of identifying and documenting target speed early in the process and prior to scope development.**

FIGURE 19 EXAMPLE PROCESS TO DETERMINE TARGET SPEED



The target speed should be identified by a multidisciplinary group of engineers and planners. This group can work together to set the target speed and make sure the elements identified to achieve the target speed are carried through scoping, design, and implementation.

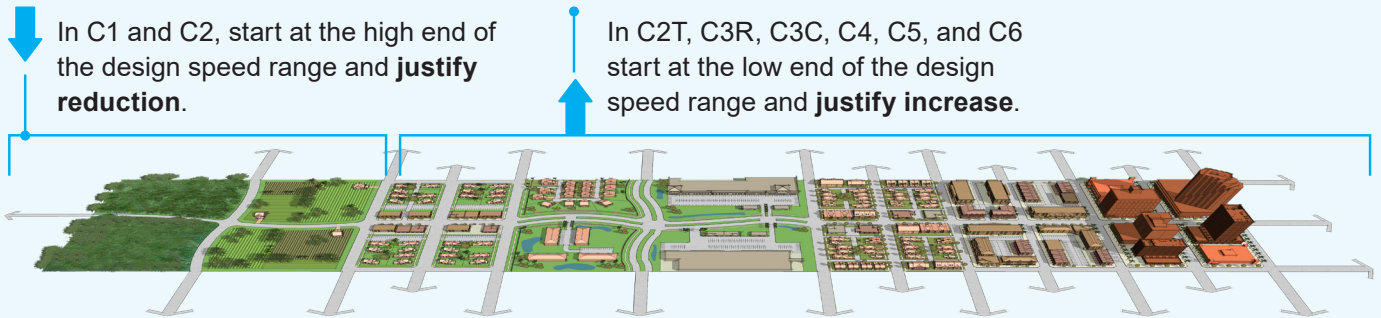


- Include design elements to achieve the target speed in project scopes to limit changes after scoping. During design, scoped safety and speed management elements should be tracked for inclusion in the final project design. If elements are removed, they should be discussed with the District Safety Administrator or equivalent.

Within the design speed range, use the steps below to assign a target speed. The first two steps can be used to determine an initial target speed and may serve as a reasonable stopping point. Steps 3 through 5 help refine the target speed and arrive at a target speed that is more likely to be achieved based on project constraints.

STEPS TO DETERMINING TARGET SPEED

1. **DETERMINE FDM CONSISTENCY:** Identify context classification, current design and posted speed, SIS designation, and **FDM** design speed range
2. **IDENTIFY STARTING POINT FOR TARGET SPEED:**

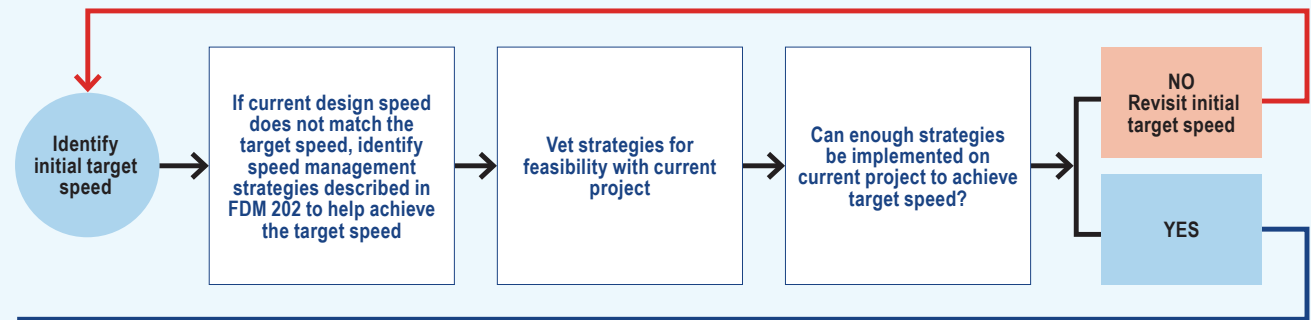


3. **IDENTIFY PROJECT NEEDS:** Refine the target speed using the following questions:

- a. Who are the intended users? Are pedestrians, bicyclists, and transit riders traveling along or across the roadway?
- b. What are potential safety challenges? Are safety needs identified on the Safety Needs List Dashboard? Does crash data identify bicycle or pedestrian crashes? What is the frequency, severity, and key crash patterns of auto crashes?
- c. Are there special population groups using the corridor (lower income, 0-car households, aging population, school age children)?
- d. What is the level of community support? Has the community requested lower speeds?
- e. What is the transportation role of the roadway in the network? Is it used to access destinations? What is the density of driveways, side streets, and signals?

Under a safe system approach, the absence of crashes does not mean the current posted speed is appropriate. Characteristics such as conflict points and separation of users can inform potential safety challenges. The FDM allows design flexibility to support the safe system approach and proactive safety efforts.

4. **REVIEW POTENTIAL COUNTERMEASURES:**



5. **DOCUMENT TARGET SPEED:** If the initial recommended target speed value is not feasible to attain in a single project, the target speed should be as close to the initial target speed values as can be achieved within the constraints of the project.

Appendix C

FDM Table 202.3.1 Strategies to Achieve Desired Operating
Speed

Table 202.3.1 Strategies to Achieve Desired Operating Speed

Context Classification	Target Speed (mph)	Strategies
C1	55-70	N/A: Speed Management Strategies are not used on high-speed roadways. See FDM 202.4 for information on transitions from high-speed to low-speed facilities.
C2	55-70	N/A: Speed Management Strategies are not used on high-speed roadways. See FDM 202.4 for information on transitions from high-speed to low-speed facilities.
C2T	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFBs and PHBs
	35	Techniques for 40-45 mph, plus On-street Parking, Street Trees, Short Blocks, Islands at Crossings, Road Diet, Bulb-outs, Terminated Vista
	30	Techniques for 35-45 mph, plus Chicanes, Islands in curved sections
	≤ 25	Techniques for 30-45 mph, plus Vertical Deflection
C3R, C3C	50-55	Project-specific; see FDM 202.4 .
	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFB and PHB
	35	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, Islands in crossings, Road Diet, RRFB and PHB, Terminated Vista
C4	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFB and PHB
	35	Techniques for 40-45mph plus On-Street Parking, Street Trees, Short Blocks, Islands at Crossings, Bulb-outs, Terminated Vista, Road Diet
	30	Techniques for 35-45 mph plus Chicanes, Islands in Curve Sections
C5	35	Roundabout, On-street Parking, Street Trees, Short Blocks, Speed Feedback Signs, Islands in Crossings, Road Diet, Bulb-outs, RRFB and HAWK, Terminated Vista
	30	Techniques for 35 mph plus Chicanes, Island in Curve Sections
	25	Techniques for 30-35 mph plus Vertical Deflection
C6	30	Roundabout, On-Street Parking, Horizontal Deflection, Street Trees, Islands in Curve Sections, Road Diet, Bulb-outs, Terminated Vista
	25	Techniques for 30 mph plus vertical deflection

Table 202.3.1 Strategies to Achieve Desired Operating Speed

Context Classification	Target Speed (mph)	Strategies
C1	55-70	N/A: Speed Management Strategies are not used on high-speed roadways. See FDM 202.4 for information on transitions from high-speed to low-speed facilities.
C2	55-70	N/A: Speed Management Strategies are not used on high-speed roadways. See FDM 202.4 for information on transitions from high-speed to low-speed facilities.
C2T	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFBs and PHBs
	35	Techniques for 40-45 mph, plus On-street Parking, Street Trees, Short Blocks, Islands at Crossings, Road Diet, Bulb-outs, Terminated Vista
	30	Techniques for 35-45 mph, plus Chicanes, Islands in curved sections
	≤ 25	Techniques for 30-45 mph, plus Vertical Deflection
C3R, C3C	50-55	Project-specific; see FDM 202.4 .
	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFB and PHB
	35	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, Islands in crossings, Road Diet, RRFB and PHB, Terminated Vista
C4	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFB and PHB
	35	Techniques for 40-45mph plus On-Street Parking, Street Trees, Short Blocks, Islands at Crossings, Bulb-outs, Terminated Vista, Road Diet
	30	Techniques for 35-45 mph plus Chicanes, Islands in Curve Sections
C5	35	Roundabout, On-street Parking, Street Trees, Short Blocks, Speed Feedback Signs, Islands in Crossings, Road Diet, Bulb-outs, RRFB and HAWK, Terminated Vista
	30	Techniques for 35 mph plus Chicanes, Island in Curve Sections
	25	Techniques for 30-35 mph plus Vertical Deflection
C6	30	Roundabout, On-Street Parking, Horizontal Deflection, Street Trees, Islands in Curve Sections, Road Diet, Bulb-outs, Terminated Vista
	25	Techniques for 30 mph plus vertical deflection

I. Safety Report

**SR 5/US 1/Overseas Highway from 580 ft. S. of
Smugglers Marine (MP 11.939/MM 85.715) to 195 ft.
N. of Executive Bay Club (MP 13.417/MM 87.160)**

Financial Project ID: 250650-5-32-01
Task Work Order No.: 38

Resurfacing, Restoration & Rehabilitation
(RRR) Safety Review
(DRAFT)

Prepared for:

Florida Department of Transportation



District Six

Cristina Morales, E.I.
FDOT Project Manager

Prepared By:
Eugenio Lopez, P.E.
Lorenzo Fuchs, E.I.

December 2021



Engineer’s Certification

I, Eugenio S. Lopez, P.E. No. 68213, certify that I currently hold an active Professional Engineer’s License in the State of Florida and am competent through education or experience to provide engineering services in the civil and traffic engineering disciplines contained in this report. I further certify that this report was prepared by me or under my responsible charge as defined in Chapter 61G15-18.001 F.A.C. and that all statements, conclusion, and recommendations made herein are true and correct to the best of my knowledge and ability.

Eugenio S. Lopez, P.E.



TABLE OF CONTENTS

Section	Title	Page
LIST OF FIGURES		IV
LIST OF TABLES		IV
1.INTRODUCTION		1
2.WORK PROGRAM REVIEW		1
3.EXISTING CONDITIONS		4
3.1 Roadway Characteristics.....		4
4.CRASH ANALYSIS		5
4.1 Entire Study Corridor.....		5
4.2 Study Locations & Clusters		9
5.FIELD REVIEW		17
6.IMPROVEMENT DEVELOPMENT		20
6.1 Crash Patterns and Countermeasures		20
6.2 Improvement Recommendations		20

ATTACHMENTS

- Attachment A: Scope of Services
- Attachment B: Straight Line Diagram (SLD)
- Attachment C: Crash Summaries and CARS Data
- Attachment D: Fatal Crash Reviews

LIST OF FIGURES

Figure	Title	Page
Figure 1:	Study Location Map	3
Figure 2:	Collision Diagram Sheet 1	13
Figure 3:	Collision Diagram Sheet 2	14
Figure 4:	Collision Diagram Sheet 3	15
Figure 5:	Collision Diagram Sheet 4	16
Figure 6:	Field Observations for Study Corridor	19
Figure 7:	Proposed Improvements Sheet 1	22
Figure 8:	Proposed Improvements Sheet 2	23
Figure 9:	Proposed Improvements Sheet 3	24

LIST OF TABLES

Table	Title	Page
Table 1:	Crash Summary - Entire Study Corridor (2016-2018)	6
Table 2:	Crash Statistics - Entire Study Corridor (2016-2018)	8
Table 3:	Crash Summary - Identified Crash Clusters	9
Table 4:	Probable Causes & Crash Countermeasures (Safety-Related)	20

1. Introduction

Choice Engineering Consultants, Inc. was retained by the Florida Department of Transportation (FDOT) District Six Traffic Operations Office (hereafter referred to as the Department) as a subconsultant to C.H. Perez & Associates Consulting Engineers, Inc. to prepare a Resurfacing, Restoration, and Rehabilitation (RRR) Safety Review for SR 5/US 1/Overseas Highway (Section 90060000) from approx. 580 feet south of Smugglers Marine (MP 11.939 / MM 85.715) to 195 feet north of Executive Bay Club (MP 13.417 / MM 87.160) in Plantation Key, Monroe County, Florida, as presented in **Figure 1**. The study corridor was recommended for a safety review due to being identified by the Department as a candidate for resurfacing as part of the FDOT RRR Project with FM No. 449738-1 in Fiscal Year 2027. The purpose of this effort is to evaluate the existing traffic safety and operations along the study corridor by reviewing historical crash data, developing collision diagrams, and performing qualitative field observations to identify safety concerns and feasible improvements, if any, and/or suggest supplemental studies for the subject corridor. The project scope of this assigned effort is included as **Attachment A**.

2. Work Program Review

The following are relevant FDOT studies and/or projects that were conducted or will be completed at or within the vicinity of the study area. These studies/projects may serve as an informational reference for subsequent sections of this safety study.

- MCCO Weigh Station Static/Wim – FPID: 436764-2. Description: This project involved reconstructing the Plantation Key Weigh Station with improved roadway features and lighting. It is noted that the project was only limited to the weigh station and did not extend onto the SR 5 roadway. This project was completed in 2018.
- Routine Maintenance – FPID: 405798-3. Description: This project involves performing maintenance along SR 5, the limits extended from MM 72 to north of MM 91. This project was completed in 2019.
- Bridge-Repair/Rehabilitation – FPID: 436532-1. Description: This project involved performing minor repair work on the Snake Creek Canal Bridge #900077. This project was completed in 2020.

- Emergency Operations – FPID: 443214-1. Description: This project involved performing work in relation to Hurricane Irma, the limits extended from MM 53.0 to MM 106.0 along SR 5. This project was completed in 2020.
- Traffic Signals – FPID: 444920-1. Description: This is a pilot project which involves preparing the Florida Keys (along SR 5) for connected vehicles applications. This project is expected to be completed in 2023.
- Routine Maintenance – FPID: 405798-6. Description: This project involves performing landscaping work for the Village of Islamorada and is expected to be completed by 2025.
- Pedestrian/Wildlife Overpass – FPID: 442040-1. Description: This project involves constructing a pedestrian and a wildlife overpass near the entrance of East Ridge Road (MP 13.079). It is noted that SR 5 within the limits of the project does not appear to be significantly impacted. This project was completed in 2020.
- Routine Maintenance – FPID: 405798-2. Description: This project involves performing maintenance along SR 5, the limits extend from MM 72 to north of MM 91. This project is considered as on-going by the Department.



Figure 1: Study Location Map

3. Existing Conditions

3.1 ROADWAY CHARACTERISTICS

The approximately 1.478-mile study corridor of SR 5/US 1/Overseas Highway extends from approx. 580 feet south of Smugglers Marine (MP 11.939 /MM 85.715) to approx. 195 feet north of Executive Bay Club (MP 13.417 /MM 87.160) and is located within Plantation Key, in Monroe County, Florida. Within the study area, SR 5 has a functional classification of Urban Principal Arterial Other and it is identified on the State Highway system as Section 90060000. The Straight-Line Diagram (SLD) for Section 90060000 is included as **Attachment B**. Additionally, the study corridor has the designation of access class 6 and a context classification of C3R. Within the study limits, SR 5 is a two-lane divided roadway with a painted median and a posted speed limit of 45 MPH. SR 5 is oriented northeast-southwest; however, SR 5 will be considered to have a north-south orientation with the northbound direction of travel towards Miami and the southbound direction of travel towards Key West hereafter. As a result, all minor streets will be oriented east to west. It is noted that the horizontal alignment along SR 5 has a slight horizontal curve between the Islamorada Chamber of Commerce (MP 13.191) and the Executive Bay Club (MP 13.454) intersections.

According to the FDOT Straight Line Diagram (SLD), there are eight (8) unsignalized intersections along the approximately 1.478-mile study corridor. Additionally, there are numerous unsignalized driveways scattered throughout the entire study corridor. It is noted that the unsignalized intersections and driveways operate under stop control and are primarily “T” intersections which do not typically contain exclusive turn lanes. There are dedicated bike lanes along SR 5 in the northbound and southbound directions of travel. Utility poles and lines (with occasional streetlights) are provided along both sides of SR 5 south of MP 12.191 (750 feet north of Smugglers Marine) and along the west side of SR 5 north of MP 12.191.

It is noted that pavement markings related to auxiliary lane transitions and taper lengths were reviewed throughout the study corridor to identify if they comply with current Department standards. Based on this review, the westbound exclusive right-turn acceleration lane at the NB Off Weigh Station intersection does not comply with the Department’s minimum lane transition lengths based on the 45 MPH posted speed. Additionally, at the East Ridge Road intersection,

the northbound right-turn lane does not comply with the Department’s approach end taper length standards based on a single turn lane.

4. CRASH ANALYSIS

Crash data for the three most recent and official years (from January 2016 to December 2018) was downloaded from the FDOT’s Crash Reporting System (CAR) on-line database. The crash data includes crashes along SR 5 (Section 90060000) that occurred from 580 feet south of Smugglers Marine (MP 11.939) to 195 feet north of the Executive Bay Club (MP 13.417). Crash summaries are included in **Attachment C** and a crash summary for the entire study corridor is provided in **Table 1**. This review effort included the development of a collision diagram plotted by the individual review of each police report, as presented in **Figure 2** through **Figure 5**. The crash statistics for the entire study corridor are presented first, followed by the crash statistics for the crash clusters identified from the collision diagrams. In addition, a preliminary review of crash data from Signal Four Analytics between January 2019 up to September 2021 was performed at locations and clusters which displayed relevant crash patterns to determine if these patterns continue to be prevalent in the later years.

4.1 ENTIRE STUDY CORRIDOR

Based on a review of CAR data, a total of 78 crashes were documented along the study corridor with 34 crashes in 2016, 24 crashes in 2017, and 20 crashes in 2018. It is noted that the CAR original output included 85 crashes; however, 7 crashes were removed from further analysis due to being identified outside the study limits. The leading crash types consisted of Rear End with 51 (65%) crashes, Sideswipe and Angle with 8 (10%) crashes each, and Fixed Object with 6 (8%) crashes. Based on the collision diagram, Angle and Fixed Object crashes occurred sporadically throughout the study corridor and no pattern was observed. It is noted that details of any relevant crash patterns are discussed in Section 4.2. The top leading contributing causes for all crashes included “careless or negligent manner” with 47 (60%) crashes, “no contributing action” and “other contributing action” with 7 (9%) crashes each. Based on crash severity, 52 (67%) were property damage only crashes, 23 (29%) were injury crashes, and 3 (4%) involved fatal related crashes (all in 2016). Additionally, a review of crash data from Signal Four Analytics was performed to identify any additional fatal crashes within the study limits, based on this review there was one crash in 2019. A brief description of the fatal related crashes is presented on Page 7 of this report. Additionally, there were no Pedestrian or Bicycle related

crashes during the referenced three-year period. There were 12 (15%) night/dusk/dawn crashes reported, which is less than the 2016-2018 Districtwide average for all roadways of 28%. Additionally, there were 5 (6%) crashes reported to have occurred under wet/slippy pavement conditions, which is less than the 2016-2018 Districtwide average for all roadways of 11%.

Table 1: Crash Summary - Entire Study Corridor (2016-2018)

SR 5/US 1/Overseas Highway from MP 11.939 (MM 85.715) to MP 13.417 (MM 87.160) Segment/Spot with No Expected Values Available		Number of Crashes			3 Year Total Crashes	Mean Crashes Per Year	%	Expected Annual Crash Value		
		Year						Abnormally High Crashes per year	90th percentile	95th percentile
		2016	2017	2018						
CRASH TYPE	Rear End	21	16	14	51	17.00	65.4%	0.00	0.00	
	Head On	1	2	0	3	1.00	3.8%	0.00	0.00	
	Angle	6	1	1	8	2.67	10.3%	0.00	0.00	
	Left Turn	0	0	1	1	0.33	1.3%	0.00	0.00	
	Right Turn	0	0	0	0	0.00	0.0%	0.00	0.00	
	Sideswipe	3	2	3	8	2.67	10.3%	0.00	0.00	
	Backed Into	1	0	0	1	0.33	1.3%	0.00	0.00	
	Pedestrian	0	0	0	0	0.00	0.0%	0.00	0.00	
	Bicycle	0	0	0	0	0.00	0.0%	0.00	0.00	
	Fixed Object	2	3	1	6	2.00	7.7%	0.00	0.00	
	Other Non-Collisions	0	0	0	0	0.00	0.0%	0.00	0.00	
	Overturn/Rollover	0	0	0	0	0.00	0.0%	0.00	0.00	
Others	0	0	0	0	0.00	0.0%	0.00	0.00		
	Total Crashes	34	24	20	78	26.00	100.0%	0.00	0.00	
SEVERITY	PDO Crashes	21	16	15	52	17.33	66.67%	0.00	0.00	
	Fatal Crashes	3	0	0	3	1.00	3.85%	0.00	0.00	
	Injury Crashes	10	8	5	23	7.67	29.49%	0.00	0.00	
LIGHTING CONDITIONS	Daylight	29	20	17	66	22.00	84.6%	0.00	0.00	
	Dusk	0	0	0	0	0.00	0.0%	0.00	0.00	
	Dawn	0	1	0	1	0.33	1.3%	0.00	0.00	
	Dark	5	3	3	11	3.67	14.1%	0.00	0.00	
	Unknown	0	0	0	0	0.00	0.0%	0.00	0.00	
SURFACE CONDITIONS	Dry	33	22	18	73	24.33	93.6%	0.00	0.00	
	Wet	1	2	2	5	1.67	6.4%	0.00	0.00	
	Others	0	0	0	0	0.00	0.0%	0.00	0.00	
MONTH OF YEAR	January	4	1	1	6	2.00	7.7%	0.00	0.00	
	February	2	0	1	3	1.00	3.8%	0.00	0.00	
	March	7	4	1	12	4.00	15.4%	0.00	0.00	
	April	3	1	4	8	2.67	10.3%	0.00	0.00	
	May	4	1	3	8	2.67	10.3%	0.00	0.00	
	June	3	1	1	5	1.67	6.4%	0.00	0.00	
	July	2	3	0	5	1.67	6.4%	0.00	0.00	
	August	3	1	1	5	1.67	6.4%	0.00	0.00	
	September	1	3	2	6	2.00	7.7%	0.00	0.00	
	October	2	4	1	7	2.33	9.0%	0.00	0.00	
	November	1	2	1	4	1.33	5.1%	0.00	0.00	
	December	2	3	4	9	3.00	11.5%	0.00	0.00	
DAY OF WEEK	Sunday	3	5	1	9	3.00	11.5%	0.00	0.00	
	Monday	5	4	3	12	4.00	15.4%	0.00	0.00	
	Tuesday	4	4	5	13	4.33	16.7%	0.00	0.00	
	Wednesday	2	2	3	7	2.33	9.0%	0.00	0.00	
	Thursday	5	2	5	12	4.00	15.4%	0.00	0.00	
	Friday	9	3	2	14	4.67	17.9%	0.00	0.00	
	Saturday	6	4	1	11	3.67	14.1%	0.00	0.00	
HOUR OF DAY	00:00-06:00	1	2	0	3	1.00	3.8%	0.00	0.00	
	06:00-09:00	0	4	0	4	1.33	5.1%	0.00	0.00	
	09:00-11:00	3	3	0	6	2.00	7.7%	0.00	0.00	
	11:00-13:00	10	5	3	18	6.00	23.1%	0.00	0.00	
	13:00-15:00	7	1	5	13	4.33	16.7%	0.00	0.00	
	15:00-18:00	9	9	9	27	9.00	34.6%	0.00	0.00	
	18:00-24:00	4	0	3	7	2.33	9.0%	0.00	0.00	

The following is a brief description of the four (4) fatal related crashes that occurred within the study limits. The detailed fatal police reports and FCRs are included in **Attachment D**.

- The first fatal collision (852404280) occurred in January 2016 under dry, daylight conditions at MM 85.8 on Snake Creek Bridge (approx. 0.2 miles south of Venetian Boulevard) with “careless or negligent manner” as the contributing action. According to the police report, the crash involved one northbound and two southbound vehicles. The second southbound vehicle collided with the first southbound vehicle as a Rear End collision, this caused the first southbound vehicle to enter the northbound travel lanes and collide with the northbound vehicle as a Head On collision. Note, this fatal crash was studied under Fatal Crash Review (FCR) 2016 – B10 No. 48, which recommended the following:
 - Perform a daytime field review to assess the sight visibility to the traffic signal at the crest of the Snake Creek drawbridge and the probable causes for Rear End collisions along southbound US 1 approaching the traffic signal.
 - Install a “Signal Warning” sign supplemented with “Prepare To Stop When Flashing” plaque and 2 flashing beacons, facing southbound traffic.
 - Recap the stop bars on US 1 at the Snake Creek drawbridge signal.
- The second fatal collision (852853820) occurred in June 2016 under dry, dark-lighting conditions near MM 86 (approx. 0.1 miles north of Venetian Boulevard) with “failed to keep in proper lane” as the contributing action. According to the police report, the crash involved a northbound vehicle entering the southbound travel lanes and colliding with a southbound vehicle as a Head On collision. It is noted that other vehicles were also impacted due to this collision. Note, this fatal crash was studied under FCR 2016 – B08 No. 20, which recommended no further action.
- The third fatal collision (853140070) occurred in October 2016 under dry, daylight conditions near MM 86.8 (at East Ridge Road intersection) with “failed to yield right-of-way” as the contributing cause. According to the police report, the crash involved a vehicle performing a westbound left-turn and colliding with a northbound vehicle. Note, this fatal crash was studied under FCR 2017 – B1 No. 14, which recommended no further action.
- The fourth fatal collision (88181972) occurred in November 2019 under dry, daylight conditions at the Venetian Boulevard intersection (MM 86) with “failed to keep in proper lane” as the contributing cause. According to the police report, the crash involved a

southbound vehicle colliding with a guardrail and a tree, both located on the west side of SR 5. Note, this fatal crash was studied under FCR 2020 – B1 No. 4, which recommended no further action.

A confidence level analysis was performed along the study corridor that indicates that the frequency of crashes was not abnormally high for the study corridor. A confidence level analysis determines if the subject location has an abnormally high number of crashes and the confidence level of it being abnormally high. According to the Highway Safety Improvement Program (HSIP), urban locations with a confidence level of 99.95% or higher can be considered to have an abnormally high number of crashes. **Table 2** below summarizes the crash statistics, including confidence level analysis, for the study corridor during the referenced years.

Table 2: Crash Statistics - Entire Study Corridor (2016-2018)

Year	2016	2017	2018
Number of Crashes	34	24	20
Average Daily Traffic (ADT)	22,000	26,500	30,000
Actual Crash Rate (ACR)	2.865	1.679	1.236
District 6 Average Crash Rate (A)	13.003	16.135	18.220
Average Vehicle Exposure (M)	11.868	14.296	16.184
Critical Crash Rate (CCR)	16.406	19.596	21.681
Safety Ratio	0.175	0.086	0.057
Statistical Significance	-9.646	-13.574	-15.978
Confidence Level	50.0000%	50.0000%	50.0000%

Additionally, based on a review of the Department’s high crash lists for intersections and segments (2016-2018), the following high crash intersections were identified within or in the vicinity of the study corridor:

- Intersection 1 - NB Off Weigh at MP 12.191.
- Intersection 2 - Venetian Boulevard at MP 12.202.

The following crash clusters were identified upon review of the collision diagram (**Figure 2** through **Figure 5**) and will be further analyzed in Section 4.2 of this report:

- **Snake Creek Bridge Cluster** – Segment from MP 12.210 to MP 12.340 (850 feet north to 1510 feet north of Smugglers Marine).
- **Cluster 1** - Segment from MP 12.040 to MP 12.480 (0.17 miles south to 0.29 miles north of Venetian Boulevard). Note that the high crash locations listed above fall within the limits of Cluster 1.
- **Cluster 2** - Segment from MP 12.894 to MP 13.068 (0.011 miles north of Treasure Harbor Drive to 0.009 miles south of Public Safety Headquarters/East Ridge Drive).

4.2 STUDY LOCATIONS & CLUSTERS

The following presents a summary of the crash data for the crash clusters identified from the collision diagrams prepared. In addition, relevant crash patterns from the January 2016 to December 2018 collision diagrams will be identified, and crash data from January 2019 to September 2021 will be utilized to identify if these crash patterns are still prevalent in later years. The approximate limits for the study clusters were outlined in the collision diagram prepared in **Figure 2** through **Figure 5**.

Table 3: Crash Summary - Identified Crash Clusters

CRASH TYPE		Snake Creek Bridge Cluster			3 Year Total Crashes	%	Cluster 1			3 Year Total Crashes	%	Cluster 2			3 Year Total Crashes	%
		Number of Crashes					Number of Crashes					Number of Crashes				
		Year					Year					Year				
		2016	2017	2018			2016	2017	2018			2016	2017	2018		
	Rear End	2	0	4	6	85.7%	8	8	3	19	67.9%	4	1	4	9	75.0%
	Head On	0	0	0	0	0.0%	1	0	0	1	3.6%	0	1	0	1	8.3%
	Angle	0	0	0	0	0.0%	2	0	0	2	7.1%	0	0	0	0	0.0%
	Left Turn	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Right Turn	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Sideswipe	1	0	0	1	14.3%	0	2	1	3	10.7%	0	0	1	1	8.3%
	Backed Into	0	0	0	0	0.0%	0	0	0	0	0.0%	1	0	0	1	8.3%
	Pedestrian	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Bicycle	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Fixed Object	0	0	0	0	0.0%	1	1	1	3	10.7%	0	0	0	0	0.0%
	Other Non-Collisions	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Overturn/Rollover	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Others	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Total Crashes	3	0	4	7	100.0%	12	11	5	28	100.0%	5	2	5	12	100.0%
SEVERITY	PDO Crashes	2	0	4	6	85.7%	7	8	3	18	64.3%	4	1	3	8	66.7%
	Fatal Crashes	1	0	0	1	14.3%	1	0	0	1	3.6%	0	0	0	0	0.0%
	Injury Crashes	0	0	0	0	0.0%	4	3	2	9	32.1%	1	1	2	4	33.3%
LIGHTING CONDITIONS	Daylight	3	0	4	7	100.0%	10	9	3	22	78.6%	5	1	5	11	91.7%
	Dusk	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Dawn	0	0	0	0	0.0%	0	1	0	1	3.6%	0	0	0	0	0.0%
	Dark	0	0	0	0	0.0%	2	1	2	5	17.9%	0	1	0	1	8.3%
	Unknown	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
SURFACE CONDITIONS	Dry	3	0	3	6	85.7%	12	11	5	28	100.0%	5	2	5	12	100.0%
	Wet	0	0	1	1	14.3%	0	0	0	0	0.0%	0	0	0	0	0.0%
	Others	0	0	0	0	0.0%	0	0	0	0	0.0%	0	0	0	0	0.0%
HOUR OF DAY	00:00-06:00	0	0	0	0	0.0%	0	1	0	1	3.6%	0	0	0	0	0.0%
	06:00-09:00	0	0	0	0	0.0%	0	3	0	3	10.7%	0	1	0	1	8.3%
	09:00-11:00	0	0	0	0	0.0%	1	1	0	2	7.1%	1	0	0	1	8.3%
	11:00-13:00	3	0	1	4	57.1%	3	3	0	6	21.4%	2	1	2	5	41.7%
	13:00-15:00	0	0	2	2	28.6%	2	1	2	5	17.9%	0	0	0	0	0.0%
	15:00-18:00	0	0	1	1	14.3%	4	2	1	7	25.0%	2	0	3	5	41.7%
	18:00-24:00	0	0	0	0	0.0%	2	0	2	4	14.3%	0	0	0	0	0.0%

Snake Creek Bridge:

The limits of the crash data for the Snake Creek Bridge cluster extends along SR 5 from approximately 850 feet north (MP 12.210) and 1510 feet north (MP 12.340) of Smugglers Marine. It is noted that the limits for the Snake Creek Bridge cluster are outlined in **Figure 2**. Of the 78 crashes previously mentioned within the entire study corridor limits, a total of 7 crashes were identified at this location. There were 3 crashes in 2016, 0 crashes in 2017, and 4 crashes in 2018. The leading crash types included Rear End with 6 (86%) crashes and Sideswipe with 1 (14%) crash. The leading contributing cause is “careless or negligent manner” with 5 (71%) crashes.

Based on crash severity, 6 (86%) were property damage only, and none (0%) were injury type crashes. There was one fatality (Report No. 852404280) reported in the three-year period, as described in Section 4.1. There were no (0%) night/dusk/dawn crashes reported. Additionally, there was 1 (14%) crash reported to have occurred under wet/slippery pavement conditions which is more than the 2016-2018 Districtwide average for all roadways of 11%. However, this is considered as statistically insignificant due to the low frequency of crashes reported within the cluster limits. A confidence level analysis for the study location was not performed since the total number of crashes did not meet the minimum of 8 crashes per year to be statistically significant. Furthermore, based upon a review of the Department’s High Crash Lists (2016-2018) for intersections and segments, the Snake Creek Bridge cluster limits was not identified as containing high crash intersections or within a high crash segment.

Relevant Crash patterns: A pattern of Rear End collisions for vehicles driving in the southbound direction (6 crashes) throughout the Snake Creek Bridge cluster limits. It is noted that this crash pattern was previously addressed with the recommendations from FCR 2016 – B10 No. 48 (outlined in Section 4.1); therefore, this cluster will not be further reviewed hereafter.

Cluster 1:

The limits of the crash data for Cluster 1 extends along SR 5 from approximately 840 feet south (MP 12.040) and 1470 feet north (MP 12.480) of Venetian Boulevard (MP 12.202). It is noted that the limits for Cluster 1 are outlined in **Figure 3**. Of the 78 crashes previously mentioned within the entire study corridor limits, a total of 28 crashes were identified at this location.

There were 12 crashes in 2016, 11 crashes in 2017, and 5 crashes in 2018. The leading crash types included Rear End with 19 (68%) crashes, and Sideswipe and Fixed Object with 3 (11%) crashes each. The leading contributing causes included “careless or negligent manner” with 18 (64%) crashes, and “failed to keep in proper lane” with 4 (14%) crashes.

Based on crash severity, 18 (64%) were property damage only and 9 (32%) were injury type crashes. There was one fatality (Report No. 852853820) reported in the three-year period, as described in Section 4.1. There were 6 (22%) night/dusk/dawn crashes reported, which is less than the 2016-2018 Districtwide average for all roadways of 28%. Additionally, there were no (0%) crashes reported to have occurred under wet/slippery pavement conditions. A confidence level analysis for the crash cluster was performed for the years 2016 and 2017 that indicates that the frequency of crashes was not abnormally high based on a confidence level of 99.95% or higher. A confidence level analysis was not performed for the year 2018 since the frequency of crashes occurring per year did not meet the minimum criteria of 8 crashes per year to be statistically significant. Also, based on a review of the Department’s High Crash Lists (2016-2018) for intersections and segments, the study area contains two high crash intersections, as previously mentioned in Section 4.1.

Relevant crash patterns: A pattern of Rear End collisions for vehicles driving in the northbound (3 crashes) and southbound (8 crashes) directions within the limits of the merge lane transitions located north and south of Venetian Boulevard, respectively. Also, a minor pattern of Rear End collisions in the southbound direction within the limits of the exclusive southbound right-turn lane for Venetian Boulevard (3 crashes). In addition, a preliminary review of crash data from Signal Four Analytics between January 2019 up to September 2021 was performed. Based on this data, there were 3 northbound and 5 southbound Rear End collisions within the limits of the merge lane transitions located north and south of Venetian Boulevard, respectively. Additionally, there were 3 Rear End collisions in the southbound direction located within the limits of the exclusive southbound right-turn lane. It is noted that based on a review of the Signal Four Analytics crash data there was one fatality (Report No. 88181972) reported within the cluster limits, as described in Section 4.1.

Cluster 2:

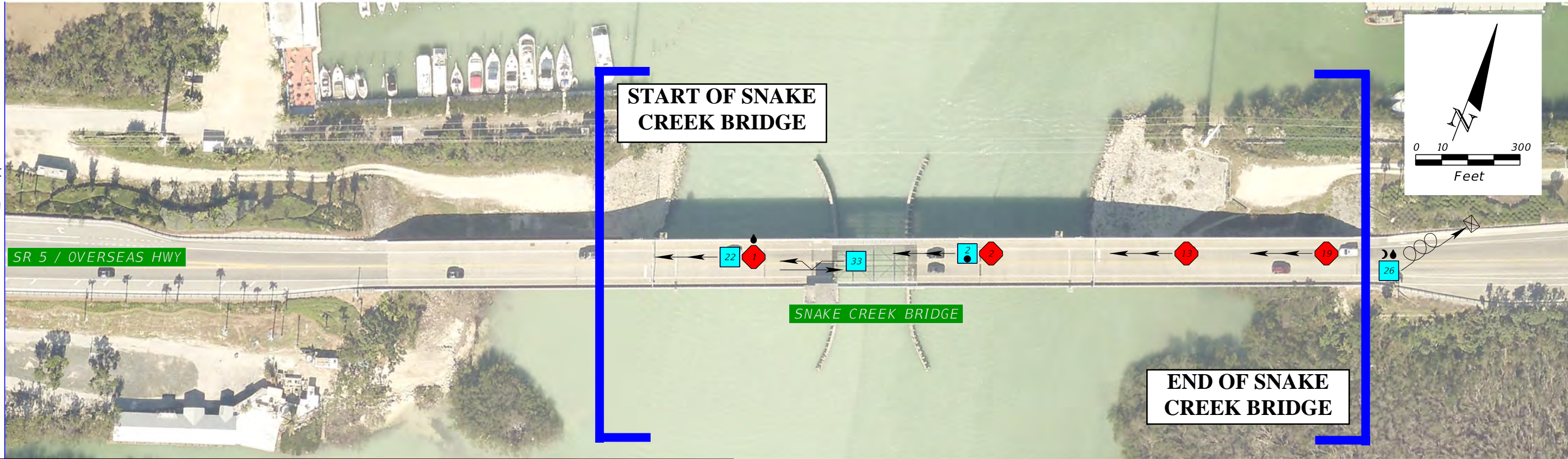
The limits of the crash data for Cluster 2 extends along SR 5 from approximately 60 feet north (MP 12.894) of Treasure Harbor Drive and 60 feet south (MP 13.068) of Public Safety Headquarters/East Ridge Road. It is noted that the limits for Cluster 2 are outlined in **Figure 4** and **Figure 5**. Of the 78 crashes previously mentioned within the entire study corridor limits, a total of 12 crashes were identified at this location. There were 5 crashes in 2016, 2 crashes in 2017, and 5 crashes in 2018. The leading crash types included Rear End with 9 (75%) crashes and Sideswipe, Head On, and Backed Into with 1 (8%) crash each. The leading contributing cause is “careless or negligent manner” with 8 (67%) crashes.

Based on crash severity, 8 (67%) were property damage only, and 4 (33%) were injury type crashes. There was no fatality reported in the three-year period. There was 1 (8%) night/dusk/dawn crash reported, which is less than the 2016-2018 Districtwide average for all roadways of 28%. Additionally, there were no (0%) crashes reported to have occurred under wet/slippy pavement conditions. A confidence level analysis for the study location was not performed since the total number of crashes did not meet the minimum of 8 crashes per year to be statistically significant. Furthermore, based upon a review of the Department’s High Crash Lists (2016-2018) for intersections and segments, the crash cluster was not identified as containing high crash intersections or within a high crash segment.

Relevant crash patterns: A pattern of Rear End collisions for vehicles driving in the southbound (6 crashes) and northbound (3 crashes) directions of travel along SR 5 within the cluster limits. Careless driving behavior, saturated traffic conditions, availability of turn lanes, and excessive speed may be probable contributing causes for these crashes. In addition, a preliminary review of crash data from Signal Four Analytics between January 2019 up to September 2021 was performed. Based on this data there was 1 Rear End collision for the northbound and southbound directions of travel.



MATCHLINE - A



MATCHLINE - A

MATCHLINE - B

COLLISION DIAGRAM LEGEND											
ANGLE CRASHES			U-TURN	REAR-END CRASHES	BACKED-INTO CRASHES	ALL TYPES OF VEHICLES	PARKED	INJURY	PED.	YR 2016	
RIGHT-TURN CRASHES			SIDESWIPE CRASHES	LEFT-TURN CRASHES	HEAD-ON CRASHES	FIXED OBJECT CRASHES	LOST CONTROL	BICYCLE	FATAL	ANIMAL	YR 2017
											YR 2018

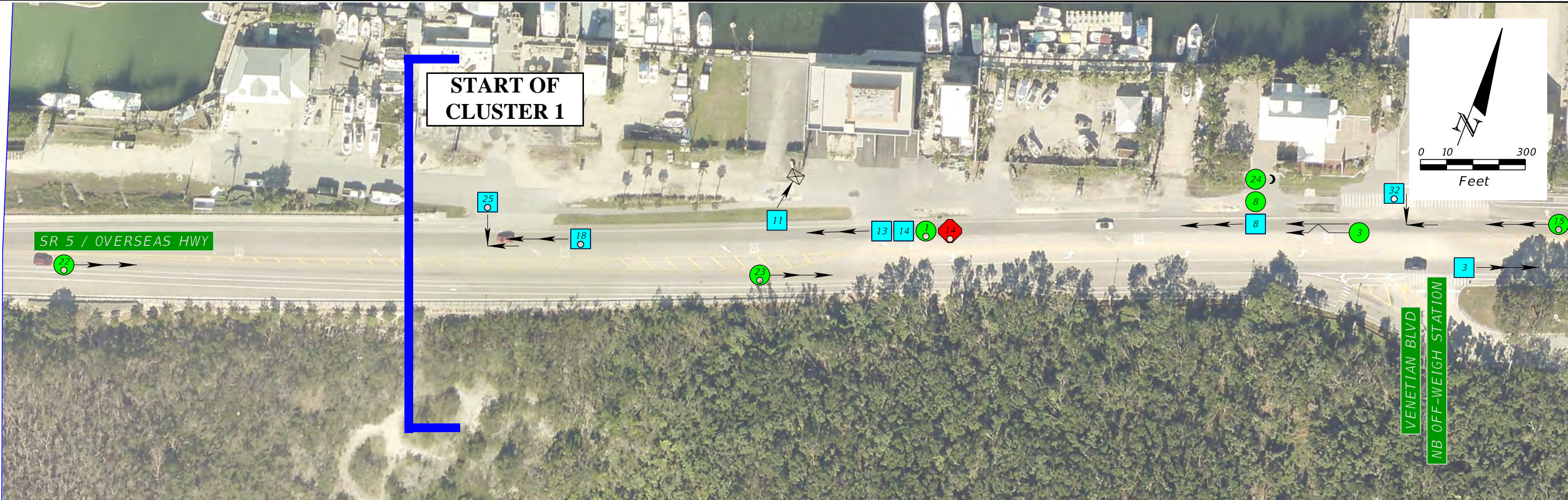
NOTES:
 1. ALL NIGHTTIME ☾ AND/OR WET ⚡ PAVEMENT CRASHES ARE IDENTIFIED.
 ALL OTHER CRASHES OCCURED DURING DAYTIME AND/OR ON DRY PAVEMENT.

Choice Engineering Consultants, Inc.
 12855 SW 132nd Street, Suite 200
 Miami, Florida 33186

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 5/OVERSEAS HWY FROM MP 11.939 (MM 85.715) TO MP 13.417 (MM 87.160)	FIGURE NO. 2
ROAD NO. SR 5	COUNTY MONROE		

SUSERS SDATES STIMES SFILES

MATCHLINE - B



MATCHLINE - C

MATCHLINE - C



MATCHLINE - D

COLLISION DIAGRAM LEGEND

ANGLE CRASHES			U-TURN	REAR-END CRASHES	BACKED-INTO CRASHES	ALL TYPES OF VEHICLES	PARKED	INJURY	PED.	YR 2016
RIGHT-TURN CRASHES	SIDESWIPE CRASHES	LEFT-TURN CRASHES	HEAD-ON CRASHES	FIXED OBJECT CRASHES	LOST CONTROL	BICYCLE	FATAL	ANIMAL		YR 2017
										YR 2018

NOTES:
 1. ALL NIGHTTIME ☾ AND/OR WET ☔ PAVEMENT CRASHES ARE IDENTIFIED.
 ALL OTHER CRASHES OCCURED DURING DAYTIME AND/OR ON DRY PAVEMENT.

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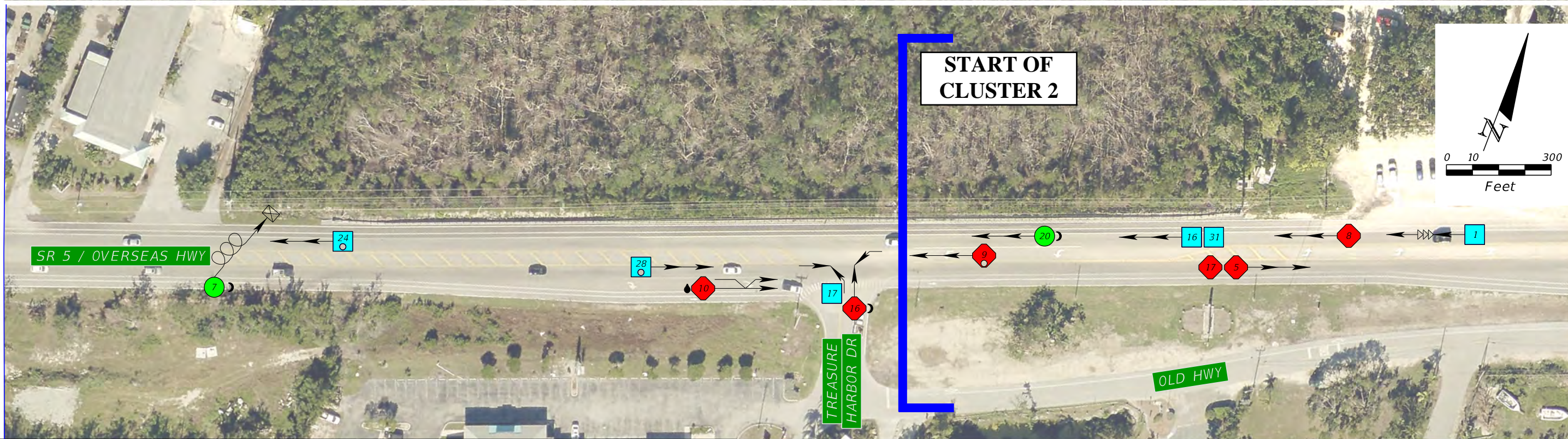
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SR 5/OVERSEAS HWY FROM MP 11.939 (MM 85.715) TO MP 13.417 (MM 87.160)	FIGURE NO. 3
ROAD NO. SR 5	COUNTY MONROE		

MATCHLINE - D



MATCHLINE - E

MATCHLINE - E



MATCHLINE - F

COLLISION DIAGRAM LEGEND

ANGLE CRASHES			U-TURN	REAR-END CRASHES	BACKED-INTO CRASHES	ALL TYPES OF VEHICLES	PARKED	INJURY	PED.	YR 2016
RIGHT-TURN CRASHES			HEAD-ON CRASHES			LOST CONTROL	BICYCLE	FATAL	ANIMAL	YR 2017
SIDESWIPE CRASHES			FIXED OBJECT CRASHES						YR 2018	

NOTES:

- 1. ALL NIGHTTIME ☾ AND/OR WET ☔ PAVEMENT CRASHES ARE IDENTIFIED.
- ALL OTHER CRASHES OCCURRED DURING DAYTIME AND/OR ON DRY PAVEMENT.

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 12855 SW 132nd Street, Suite 200
 Miami, Florida 33186

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY
SR 5	MONROE

SR 5/OVERSEAS HWY
 FROM MP 11.939 (MM 85.715)
 TO MP 13.417 (MM 87.160)

FIGURE NO.

4



COLLISION DIAGRAM LEGEND											
ANGLE CRASHES				U-TURN	REAR-END CRASHES	BACKED-INTO CRASHES	ALL TYPES OF VEHICLES	PARKED	INJURY	PED.	YR 2016
RIGHT-TURN CRASHES	SIDESWIPE CRASHES		LEFT-TURN CRASHES	HEAD-ON CRASHES	FIXED OBJECT CRASHES	LOST CONTROL	BICYCLE	FATAL	ANIMAL		YR 2017
											YR 2018

NOTES:
 1. ALL NIGHTTIME ☾ AND/OR WET ☔ PAVEMENT CRASHES ARE IDENTIFIED.
 ALL OTHER CRASHES OCCURED DURING DAYTIME AND/OR ON DRY PAVEMENT.

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 12855 SW 132nd Street, Suite 200
 Miami, Florida 33186

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY
SR 5	MONROE

SR 5/OVERSEAS HWY
 FROM MP 11.939 (MM 85.715)
 TO MP 13.417 (MM 87.160)

FIGURE NO.
5

5. Field Review

Drive-through field reviews utilizing the floating car method were performed on Friday, September 10, 2021, from 11:00 AM to 1:00 PM and from 2:00 PM to 4:00 PM, to ascertain the overall corridor operations and site conditions from both a traffic and safety perspective. The daytime field review was performed during the peak crash periods for the study corridor which coincides with the typical midday and afternoon peak traffic periods. Additionally, a nighttime field review was conducted on Monday, September 13, 2021, from 2:45 AM to 3:15 AM during the periods identified as containing the majority of Fixed Object crashes to confirm that the high mast highway lighting fixtures were functional, and to confirm the overall reflectivity of the pavement markings and signs. The following sections summarize first the key observations for the overall corridor and then those of any crash clusters. Photographs included in **Figure 6** at the end of this section provide additional information about the field observations.

Corridor and General Cluster Observations:

- The overall level of traffic through the study corridor was relatively moderate to heavy with an even volume split between the northbound and southbound directions of travel during the midday period, and relatively moderate to heavy during the afternoon period with northbound as the peak direction of travel. Based on the floating car’s speed, vehicles generally appeared to drive at or above the posted speed (45 MPH) when traveling throughout the study corridor.
- There was light eastbound and westbound vehicular activity at most unsignalized intersections throughout the corridor. Left and right-turning vehicles performed the movements with relative ease during the midday period but experienced slight delays during the afternoon period due to the increased vehicular demand along SR 5. At times, however, vehicles performing right-turn movements would cause through vehicles (who were following the turning vehicle closely) to decelerate or circumvent the turning vehicle.
- All existing signage along this section of SR 5 appeared to be in good physical condition and were clearly visible (unobstructed) to northbound and southbound travelers. Additionally, posted speed limit signs were observed in numerous locations along the study limits, facing both directions of travel. See **Figure 6, Photograph 1 and 2**.

- The “Signal Warning” with “Prepare To Stop When Flashing” flashing beacon sign assembly on the southbound approach to the Snake Creek drawbridge is missing.
- The existing pavement appears to be cracked and faded, and skid markings, representative of vehicles suddenly braking or slowing down, are present as shown in **Figure 6, Photograph 3** and **Photograph 4**.
- During the nighttime field review, all roadway lighting fixtures appeared to be operational. Additionally, there is adequate reflectivity for the existing raised pavement markings (RPMs) and existing signage. See **Figure 6, Photograph 5**.
- There was scarce pedestrian and bicyclist activity during the daytime and nighttime observational periods throughout the study corridor.

Cluster 1 Observations:

- The overall level of traffic through the study location/cluster was relatively moderate to heavy during the midday and afternoon periods.
- The exclusive right-turn lanes allowed for vehicles to perform turning movements with relative ease and separated right-turning vehicles from the through traffic along SR 5. Additionally, vehicles performed left-turning movements with relative ease due to adequate gaps in the northbound and southbound traffic streams along SR 5. It is noted that there is a relatively large number of heavy vehicles entering and exiting the NB Weigh Station; however, no conflicts or delays were observed for these heavy vehicles.
- Lane reduction pavement markings are provided for the northbound and southbound merge lane transitions near Venetian Boulevard/NB On Weigh Station, but no “Lane Merge” signage is provided for either northbound or southbound merge lane transitions. See **Figure 6, Photograph 6** and **Photograph 7**.

Cluster 2 Observations:

- The overall level of traffic through the study cluster was relatively moderate to heavy during the midday and afternoon periods. Overall, all turning vehicles were adequately accommodated and experienced relatively light delays.
- There was relatively light northbound left-turn demand for the East Ridge Road intersection. It is noted that flexible delineators have been placed to restrict westbound through left-turn movements at the intersection – see **Figure 6, Photograph 8**.

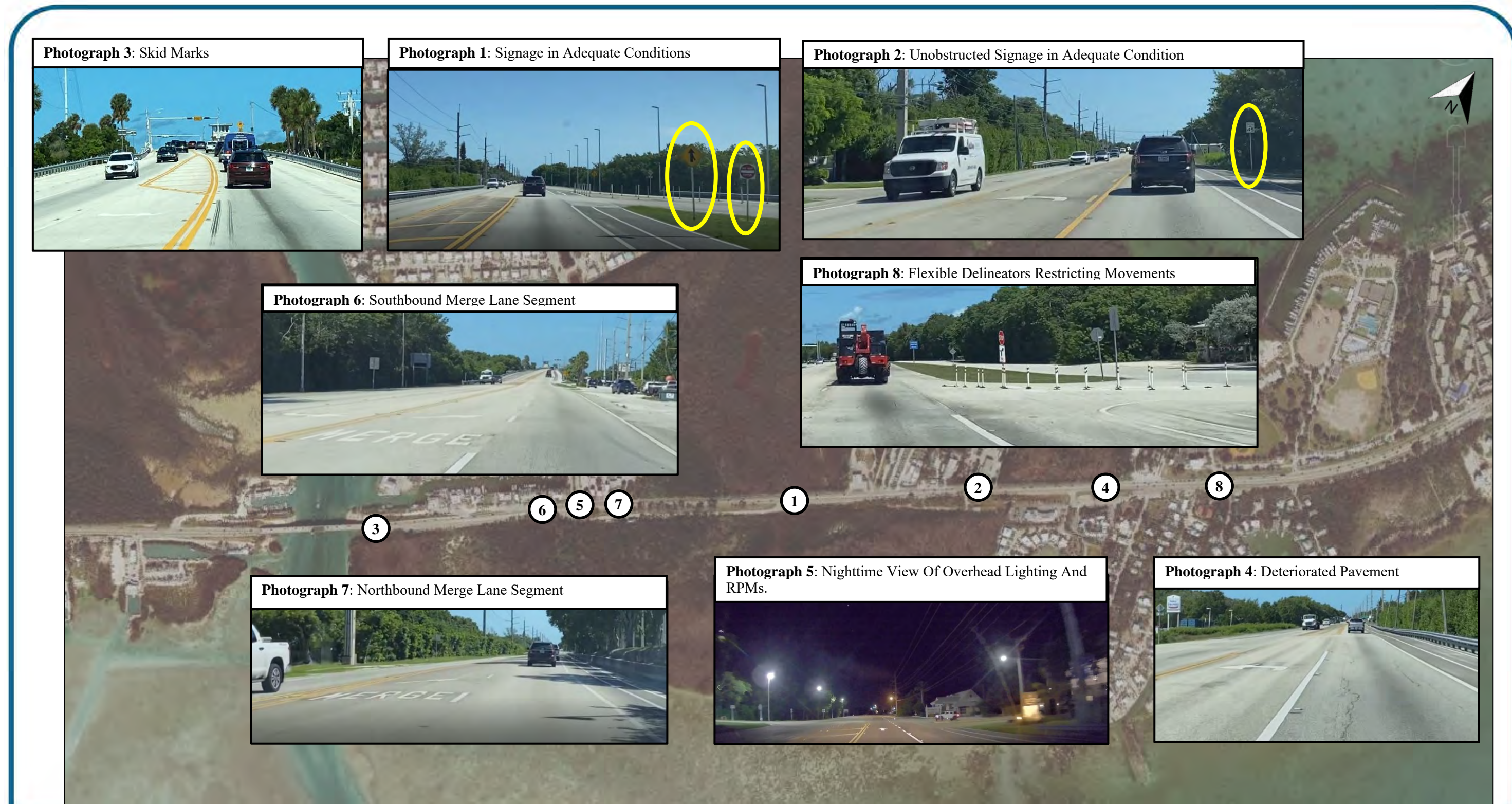


Figure 6: Field Observations for Study Corridor

6. Improvement Development

6.1 CRASH PATTERNS AND COUNTERMEASURES

Table 4 details the crash types that were targeted for mitigation, probable causes and possible countermeasures are identified as well. These countermeasures were used to develop conceptual improvements to reduce the identified crash patterns and improve the overall safety and traffic operations along the study corridor.

Table 4: Probable Causes & Crash Countermeasures (Safety-Related)

Cluster Location	Crash Pattern(s)	Probable Cause(s)	Possible Countermeasure(s)
Cluster 1	Rear End	- Motorist Careless or Negligent Behavior - Vehicles Following Too Closely - Lack of Signage	- Additional signage - Enforcement
Cluster 2			

6.2 IMPROVEMENT RECOMMENDATIONS

Proposed improvements are aimed at reducing and mitigating current and future crash patterns at cluster locations along the study corridor. The improvements have been detailed and graphically depicted in **Figure 7** through **Figure 9**. The proposed improvements are the following:

Entire Corridor:

Safety Improvements:

- Coordinate with local law enforcement officials (Monroe Police Department) to increase existing efforts to enforce the posted speed limit during the non-peak hours to ensure compliance and mitigate the reported Rear End collisions which may have occurred due to excessive speed.
- Coordinate with the Department’s Transportation Systems Management & Operation Unit (TSM&O), the traffic signal maintaining agency, to replace the missing “Signal Warning” with “Prepare To Stop When Flashing” flashing beacon sign assembly located on the southbound approach to the Snake Creek drawbridge.

Non-safety Improvements:

- Upgrade all existing crosswalk markings to special emphasis crosswalk markings.

Cluster 1 (Outlined in Figure 8)

Safety Improvements:

- Install “Lane Ends” (W4-2R) signs for the northbound and southbound merge lane transitions located north and south of Venetian Boulevard to mitigate Rear End collisions occurring within the limits of the merge lane transitions.

Non-safety Improvements:

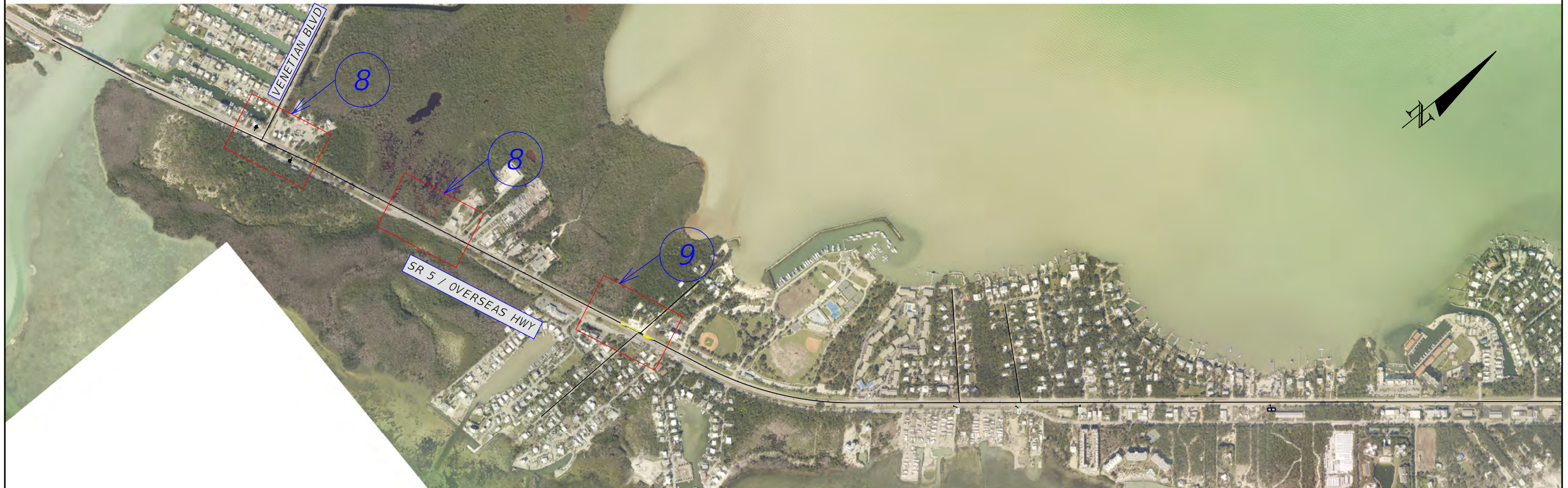
- Upgrade the auxiliary transition lane length for the westbound exclusive right-turn acceleration lane at the NB Off Weigh Station intersection based on the 45 MPH posted speed. This recommendation must be coordinated with the FDOT Scoping Unit.

Cluster 2 (Outlined in Figure 9)

Safety Improvements: None

Non-safety Improvements:

- Upgrade the taper length for the northbound right-turn lane at the East Ridge Road intersection based on the 45 MPH posted speed. This recommendation must be coordinated with the FDOT Scoping Unit.
- Reduce the length of the existing northbound left-turn lane at the East Ridge Road intersection (MP 13.079) to accommodate a northbound left-turn lane to service Gimpy Gulch Drive and the adjacent store (MP 12.97). Therefore, along SR 5 from south to north, the first northbound left-turn lane will service Gimpy Gulch Drive and the adjacent store, followed by a full median opening, then a painted median, and finally the second left-turn lane which will service the East Ridge Road intersection. This recommendation intends to separate left-turning vehicles whom intend to access Gimpy Gulch Drive and adjacent store from the SR 5 traffic stream and allow turning vehicles to perform the movement as a two stage left-turn crossing maneuver. This is deemed feasible due to the light northbound left-turn vehicular demand observed at the East Ridge Road intersection.



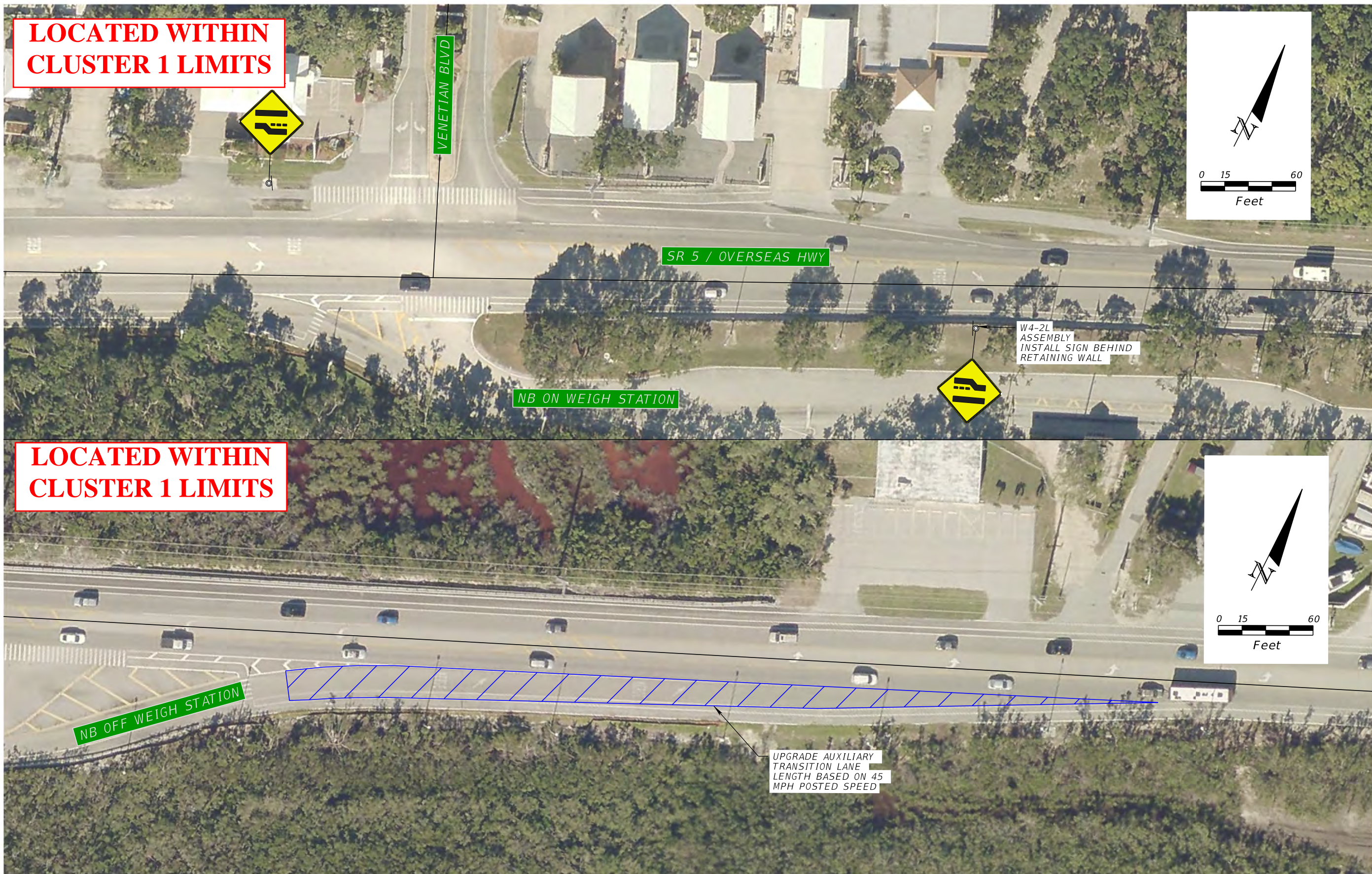
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Choice Engineering Consultants, Inc.
 12855 SW 132nd Street, Suite 200
 Miami, Florida 33186

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	

*PROPOSED CONDITION
SHEET LAYOUT*

FIGURE NO.
7



LOCATED WITHIN CLUSTER 1 LIMITS

VENETIAN BLVD

SR 5 / OVERSEAS HWY

W4-2L
ASSEMBLY
INSTALL SIGN BEHIND
RETAINING WALL

NB ON WEIGH STATION

LOCATED WITHIN CLUSTER 1 LIMITS

NB OFF WEIGH STATION

UPGRADE AUXILIARY
TRANSITION LANE
LENGTH BASED ON 45
MPH POSTED SPEED

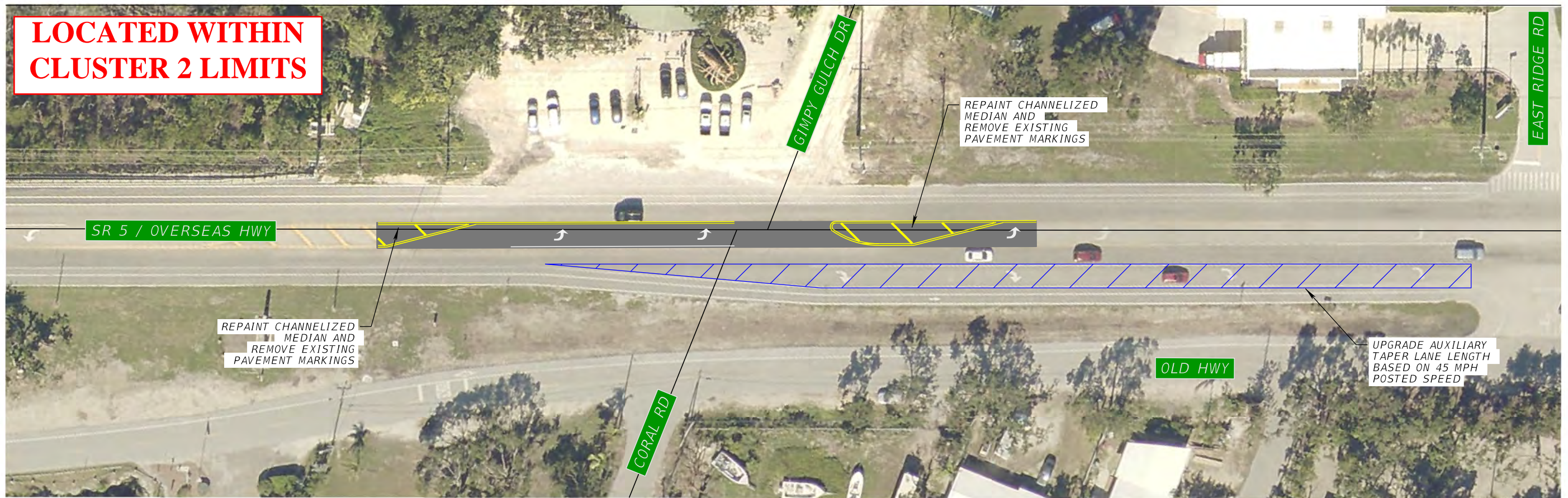
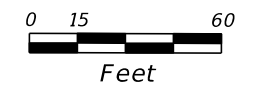
LEGEND	
EXIST. SIGNS	EXIST. DRAINAGE
EXIST. POWER POLE	EXIST. DWY.
EXIST. LIGHTPOLE	AUXILIARY LANE

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12855 SW 132nd Street, Suite 200
Miami, Florida 33186

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	

PROPOSED CONDITION DIAGRAM
*SR5 / OVERSEAS HWY FROM
MP 11.939 TO MP 13.417*

FIGURE NO.
8



LEGEND	
EXIST. SIGNS	EXIST. DRAINAGE
EXIST. POWER POLE	EXIST. DWY.
EXIST. LIGHTPOLE	AUXILIARY LANE

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 Miami, Florida 33186

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 5	MONROE	

PROPOSED CONDITION DIAGRAM
 SR5 / OVERSEAS HWY FROM
 MP 11.939 TO MP 13.417

FIGURE NO.
9



List of Attachments:

Attachment A: Scope of Services

Attachment B: Straight Line Diagram (SLD)

Attachment C: Crash Summaries and CARS Data

Attachment D: Fatal Crash Reviews



Attachment A: Scope of Services



C. H. Perez & Associates Consulting Engineers, Inc.

9594 NW 41 Street, Suite 201 / Doral, FL 33178

Tel: (305)592-1070 / Fax: (305)592-1078

855 West Peachtree St, #1526 / Atlanta, GA 30308

Tel: (404)426-4001 / Fax: (404)973-3253

FLORIDA CA 25976 / IB 7360

Scope of Services

Contract # C-AA02 - FM 250650-5-32-01

Task Work Order 38

1. BACKGROUND:

The Florida Department of Transportation District 6 Traffic Operations' Office has assigned C.H. Perez & Associates Consulting Engineers, Inc. ("the Consultant") to conduct Resurfacing, Restoration, and Rehabilitation (RRR) Safety Reviews at several locations in Miami Dade County and Monroe County. The Department identified the segment of 90060000/SR 5/US-1/Overseas Highway (Plantation Key) from MP 11.939 to MP 13.417 as a candidate for a RRR project. As a sub to the Consultant firm, this task will be performed by Choice Engineering Consultants, Inc. ("the Subconsultant").

2. PURPOSE:

The purpose of this task work order is to perform engineering tasks associated with the RRR Safety Review at the segment along SR 5/US-1/Overseas Highway (Plantation Key) from MM 87.16 to MM 90.02.

The list below identifies the tasks associated with this effort.

3. ORIGINALSCOPE:

Under this Task Work Order, the CONSULTANT will provide the following services:

- **Task 1 – Coordination:** Consultant shall coordinate all aspects of the safety review with the Department's Design Project Manager to understand the scope of service of the design project, its limits, and attend any meetings that might discuss safety issues for the project. The Consultant shall obtain and analyze all data necessary for the safety review's performance with the Department's project manager to understand the scope of services and ensure no conflicts.
- **Task 2 – Data Collection and Analysis:** The Consultant shall obtain and analyze all data necessary for the safety review performance. Data to be reviewed shall include the Department's Segment and Spot High Crash lists and the latest three years of available crash data (2016 thru 2018) for all locations, individual crash reports for fatal crashes occurring in the same review periods, and the scope of work for the design project. The Consultant shall check ongoing projects or studies within the limits of the project. The Consultant shall review the hard copy crash reports and prepare collision diagrams for cluster locations identifying crash types, severity, and the relative location at the intersections or segments. The crash data will be evaluated to identify probable causes to be used to develop improvements.
- **Task 3 – Location Safety Assessment (Field Review):** The Consultant shall field review the project locations and identify safety concerns associated with geometric alignment, roadway condition, sight distance, peak hour driver behavior, traffic signals, signs, and pavement markings, as well as pedestrian and bicycle safety concerns.
- **Task 4 – Potential Improvements Recommendations:** The Consultant shall identify potential improvements to address each of the identified safety concerns. The Consultant shall ensure that all recommendations meet current FDOT Standards and Specifications and criteria and guidelines contained in the FDOT's Plans Preparations Manual (latest edition). The Consultant shall coordinate the identified improvements with the



C. H. Perez & Associates Consulting Engineers, Inc.

9594 NW 41 Street, Suite 201 / Doral, FL 33178

Tel: (305)592-1070 / Fax: (305)592-1078

855 West Peachtree St, #1526 / Atlanta, GA 30308

Tel: (404)426-4001 / Fax: (404)973-3253

FLORIDA CA 25976 / IB 7360

Department's Design Project Manager. This task might include preparing existing and proposed condition diagrams for locations where improvements are recommended to target abnormal crashes patterns.

- **Task 5 - Report:** The Consultant shall prepare a Draft Report to document all the above tasks performed. Upon receiving and addressing comments from the Department, the Consultant shall prepare the Final Report for each location and submit it to the Department Project manager.

4. CONSULTANT RESPONSIBILITIES:

The Consultant's responsibilities remain the same as in the Original Agreement, and any Supplemental Amendments to date shall remain the same.

5. DEPARTMENT RESPONSIBILITIES:

The Department's responsibilities remain the same as in the Original Agreement, and any Supplemental Amendments to date shall remain the same.

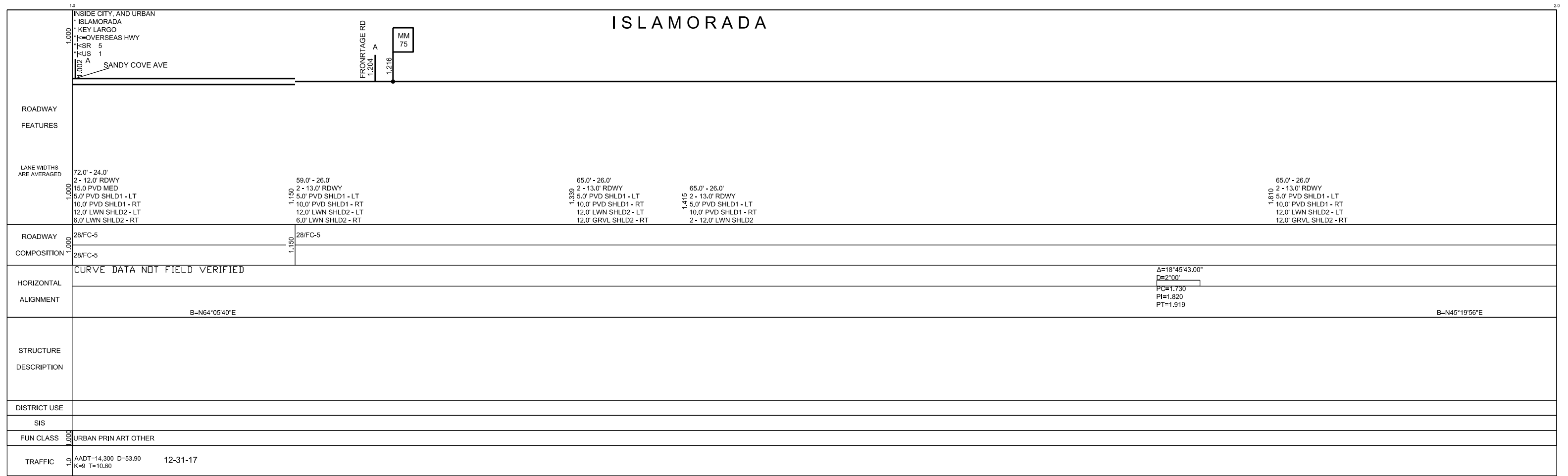
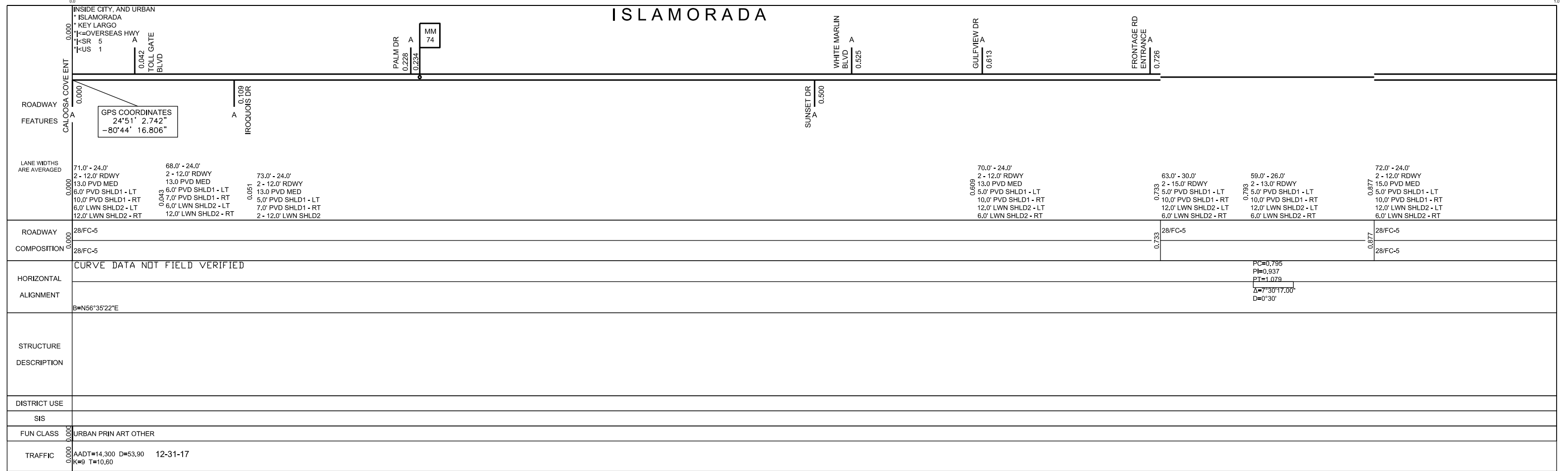


Attachment B: Straight Line Diagram (SLD)

5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	CTS Engineering	08/03/2018
BY	CTS Engineering	CTS Engineering			

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

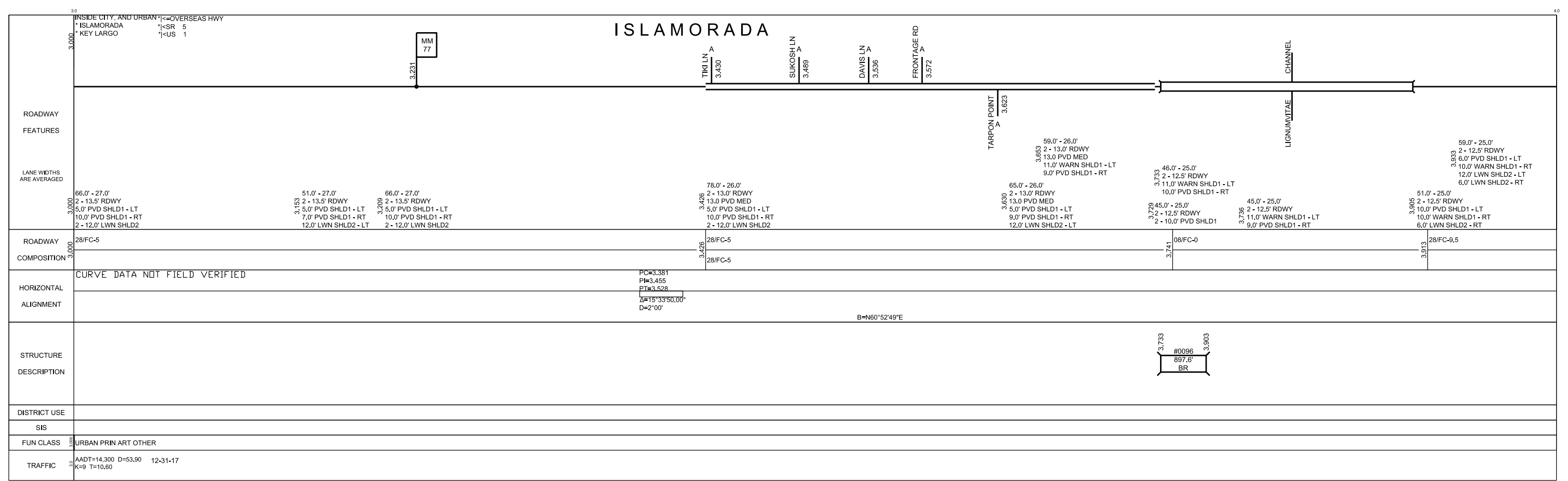
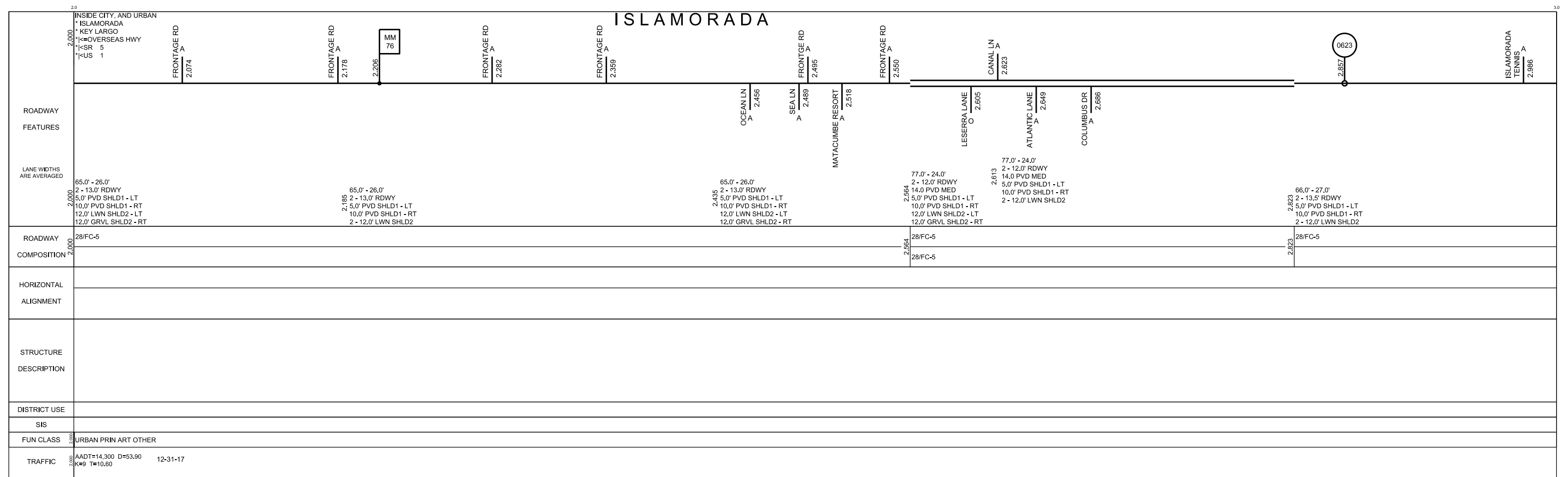
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02	US 1	SR 5	MONROE	06	90060000	1 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering	Cts Engineering			

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

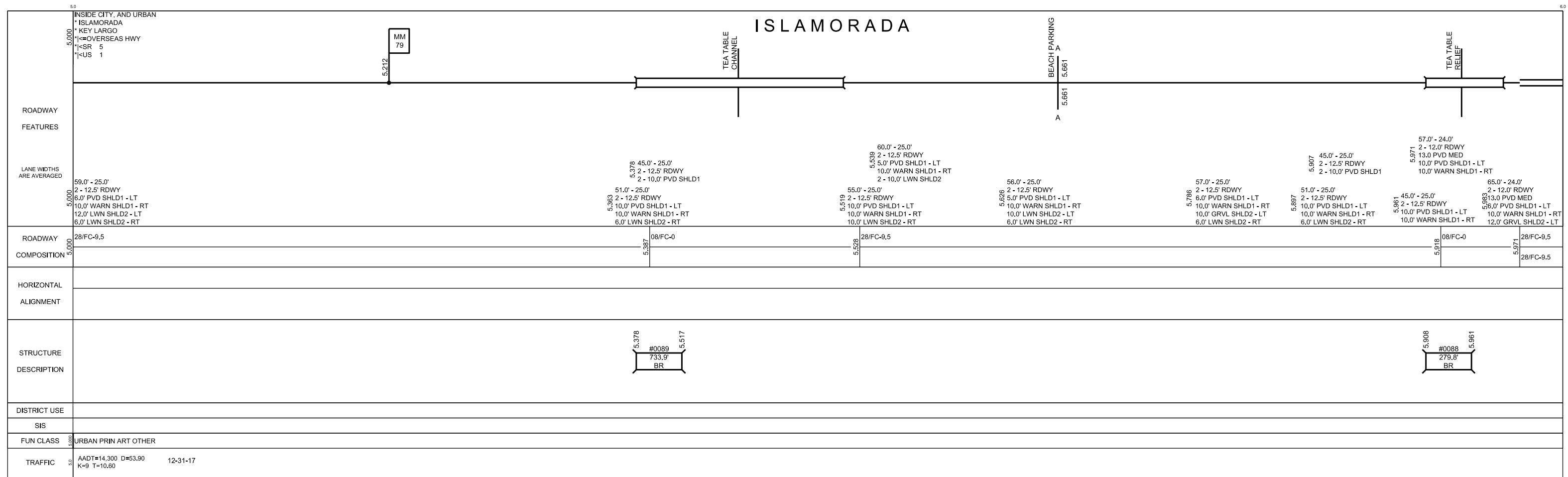
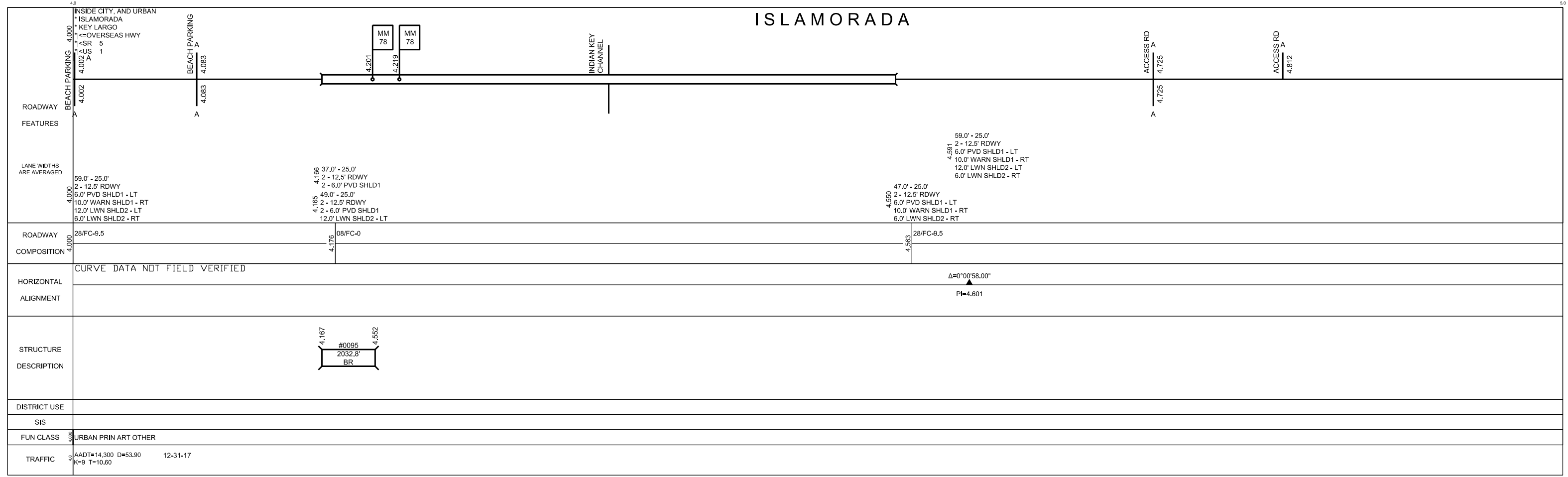
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02	US 1	SR 5	MONROE	06	90060000	2 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering				

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

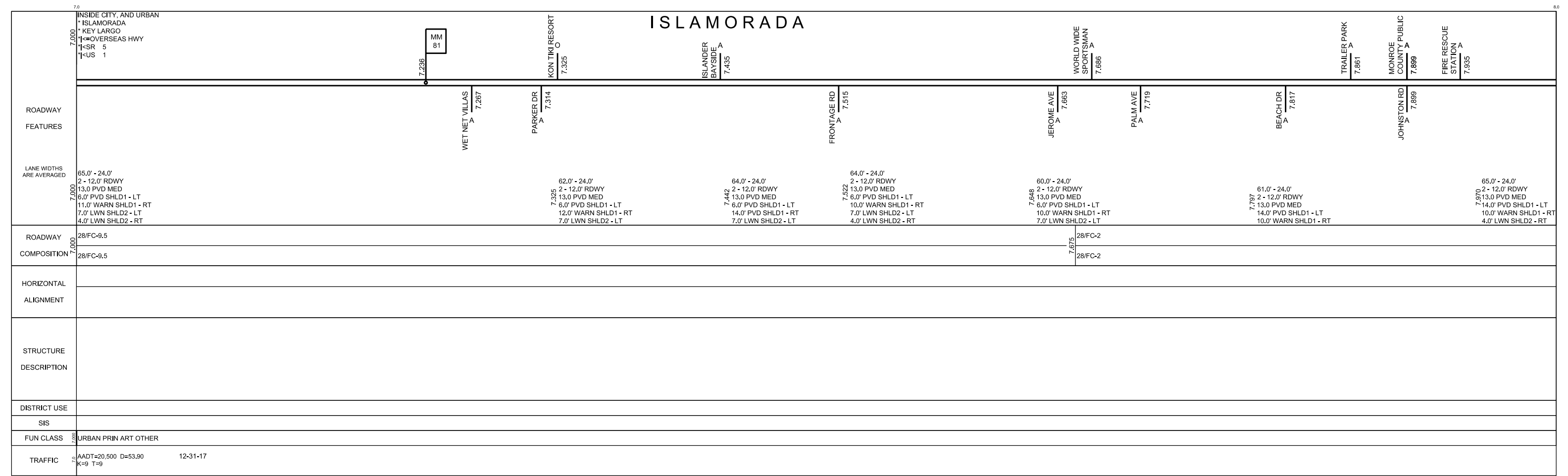
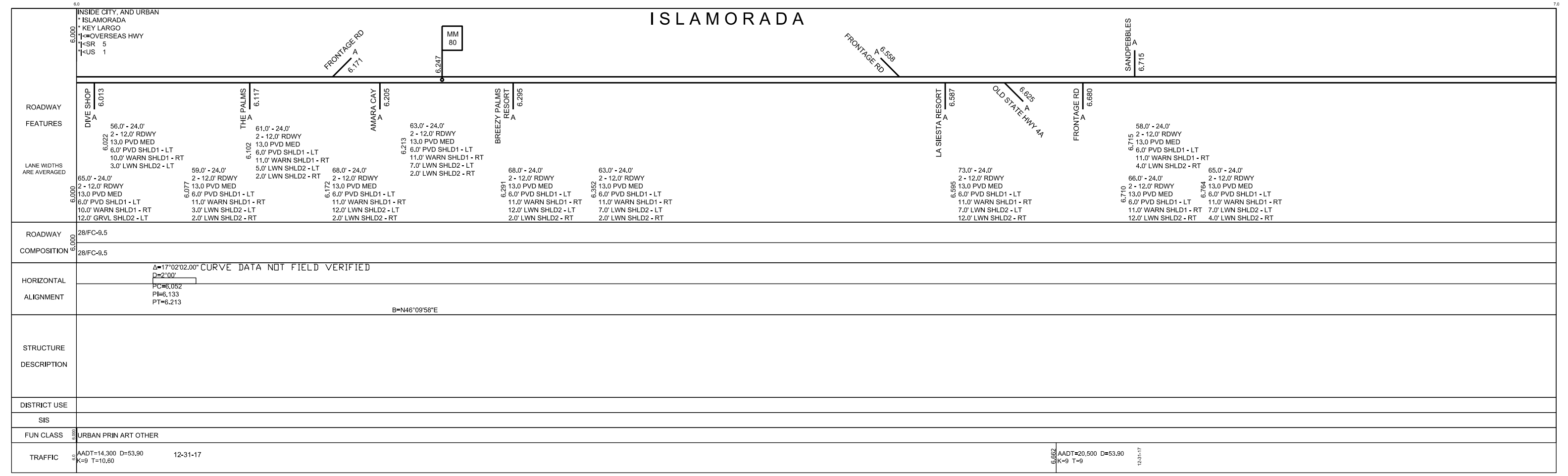
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02	US 1	SR 5	MONROE	06	90060000	3 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering				

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	4 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY: Cts Engineering	Cts Engineering				

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY



SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	5 OF 20

		ISLAMORADA									
ROADWAY	INSIDE CITY, AND URBAN * ISLAMORADA * KEY LARGO * <OVERSEAS HWY * <SR 5 * <US 1	BLACKWOOD DR 8.111	MM 82 8.241	MADERA DR 8.289	ISLANDER RESORT 8.306	LIST ST 8.545	LA JOLLA RESORT 8.591	DOGWOOD LN 8.612	OCEAN LN 8.749		
FEATURES	CHEECA LODGE AND SPA 8.020	A									
LANE WIDTHS ARE AVERAGED	61.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 14.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT	65.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 14.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT	60.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 5.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 8.0' LWN SHLD2 - LT	64.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 5.0' PVD SHLD1 - LT 14.0' WARN SHLD1 - RT 8.0' LWN SHLD2 - LT	69.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 14.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - LT	64.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 5.0' PVD SHLD1 - LT 14.0' WARN SHLD1 - RT 8.0' LWN SHLD2 - LT	69.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 14.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - LT	65.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - LT	65.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 10.0' WARN SHLD1 - RT 14.0' PVD SHLD1 - LT	65.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 14.0' PVD SHLD1 - LT	
ROADWAY	28/FC-2										
COMPOSITION	28/FC-2										
HORIZONTAL ALIGNMENT											
STRUCTURE DESCRIPTION											
DISTRICT USE											
SIS											
FUN CLASS	URBAN PRIN ART OTHER										
TRAFFIC	AADT=20,500 D=53.90 K=9 T=9 12-31-17										

		ISLAMORADA												
ROADWAY	INSIDE CITY, AND URBAN * ISLAMORADA * KEY LARGO * <OVERSEAS HWY * <SR 5 * <US 1	DE LEON AVE 9.065	CVS 9.127	MM 83 9.236	FRONTAGE RD, ENT 9.459	RUSSELL LANE 9.473	RUSSELL ST 9.497	PUBLIX 9.590	SOUTH HAMMOCK RD 9.669	N HAMMOCK DR 9.715	PARK RD 9.782	ISLAND CHRISTIAN SCH 9.811	CHESAPEAKE BEACH 9.875	SAND BAR 9.933
FEATURES		A	A											
LANE WIDTHS ARE AVERAGED	61.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 14.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT	65.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 14.0' WARN SHLD1 - RT 8.0' LWN SHLD2 - LT	65.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - LT	69.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - LT	65.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 8.0' LWN SHLD2 - LT	73.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 8.0' LWN SHLD2 - LT	76.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 5.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 2 - 12.0' LWN SHLD2	72.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 5.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - RT	71.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 5.0' PVD SHLD1 - LT 10.0' WARN SHLD1 - RT 7.0' LWN SHLD2 - LT	66.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 2 - 5.0' PVD SHLD1 12.0' LWN SHLD2 - LT	68.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 5.0' PVD SHLD1 - LT 14.0' WARN SHLD1 - RT	61.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 7.0' PVD SHLD1 - LT 3.0' LWN SHLD2 - LT	59.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 7.0' PVD SHLD1 - LT 12.0' LWN SHLD2 - LT	61.0' - 24.0' 2 - 12.0' RDWY 13.0 PVD MED 3.0' LWN SHLD2 - LT
ROADWAY	28/FC-2													
COMPOSITION	28/FC-2													
HORIZONTAL ALIGNMENT	CURVE DATA NOT FIELD VERIFIED	$PC=9.448$ $PI=9.559$ $PT=9.671$ $\Delta=3^{\circ}55'08.00''$ $D=0^{\circ}20'$												
STRUCTURE DESCRIPTION		$\Delta=3^{\circ}55'08.00''$ $D=0^{\circ}20'$ $PC=9.678$ $PI=9.789$ $PT=9.901$ $B=N50^{\circ}05'07''E$												
DISTRICT USE		$B=N46^{\circ}10'01''E$												
SIS														
FUN CLASS	URBAN PRIN ART OTHER													
TRAFFIC	AADT=20,500 D=53.90 K=9 T=9 12-31-17													

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	7 OF 20

5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
DATE					
BY	Cts Engineering	Cts Engineering			

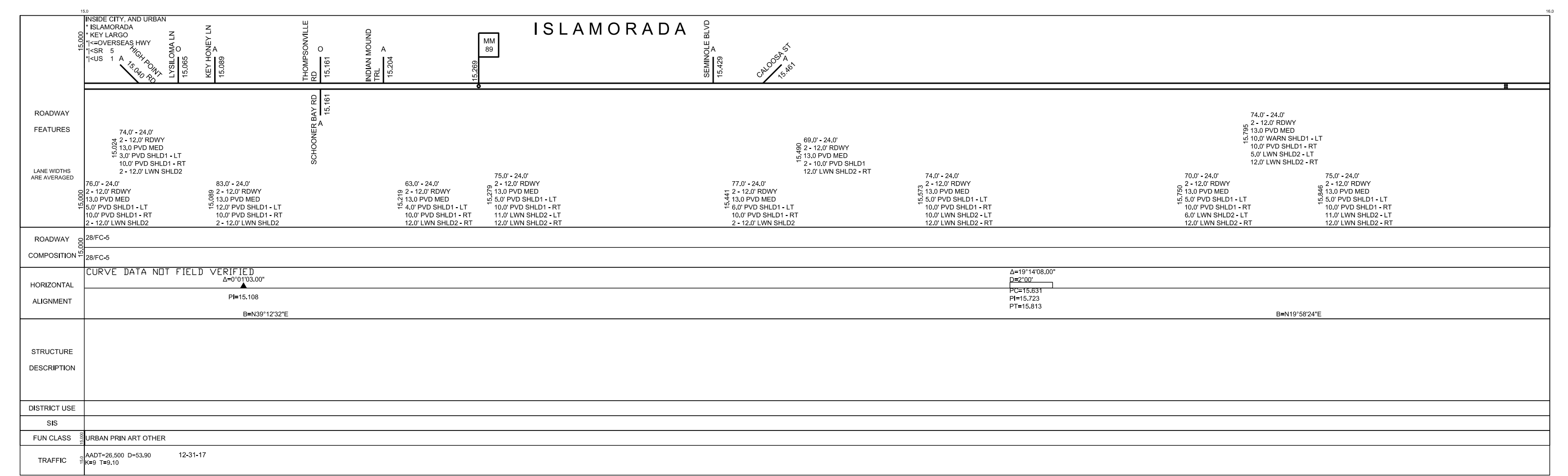
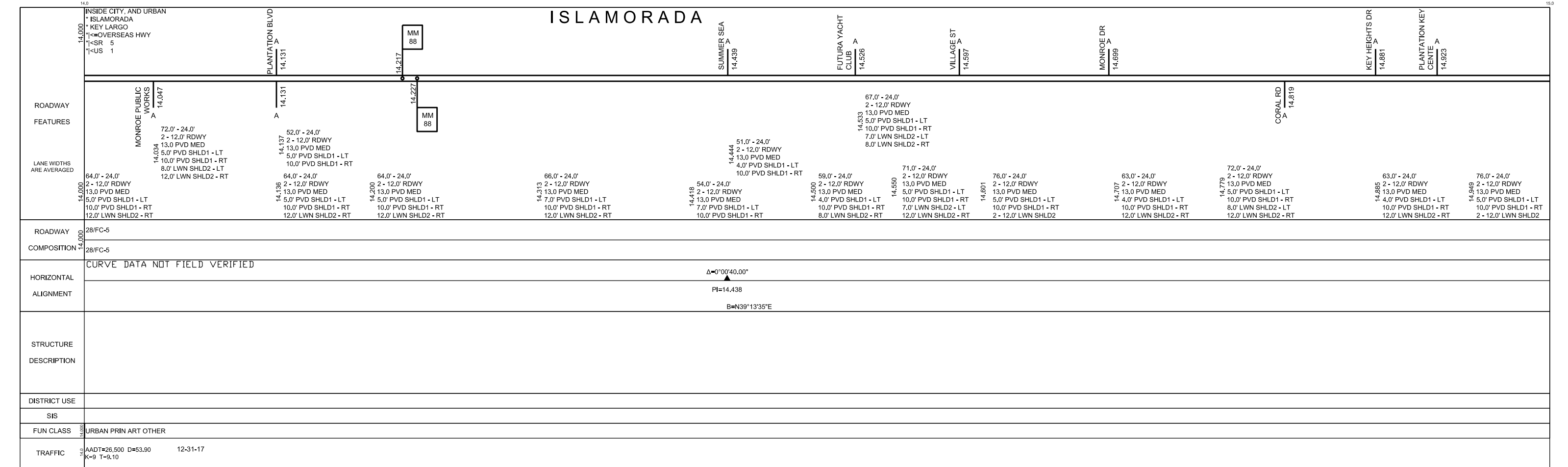
INSIDE CITY, AND URBAN ISLAMORADA		ISLAMORADA										
ROADWAY	85.0' - 24.0'	87.0' - 24.0'	83.0' - 24.0'	79.0' - 24.0'	57.0' - 25.0'	70.0' - 24.0'	82.0' - 24.0'	70.0' - 24.0'	82.0' - 24.0'	70.0' - 24.0'	82.0' - 24.0'	
FEATURES	2 - 12.0' RDWY 26.0 PVD MED 5.0' PVD SHLD1 - LT 10.0' PVD SHLD1 - RT 8.0' LWN SHLD2 - LT 12.0' LWN SHLD2 - RT	2 - 12.0' RDWY 26.0 PVD MED 5.0' PVD SHLD1 - LT 5.0' PVD SHLD1 - RT 20.0' WARN SHLD1 - RT 8.0' LWN SHLD2 - LT 4.0' VG SHLD2 - RT	2 - 12.0' RDWY 26.0 PVD MED 5.0' PVD SHLD1 - LT 5.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT 6.0' GRVL SHLD2 - LT 12.0' LWN SHLD2 - RT	2 - 12.0' RDWY 26.0 PVD MED 8.0' PVD SHLD1 - RT 9.0' LWN SHLD2 - LT 2.0' VG SHLD2 - RT	2 - 12.0' RDWY 26.0 PVD MED 8.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - LT 12.0' LWN SHLD2 - LT	2 - 12.5' RDWY 10.0' PVD SHLD1 - LT 8.0' PVD SHLD1 - RT 9.0' LWN SHLD2 - RT 2.0' VG SHLD2 - RT	2 - 12.0' RDWY 10.0' PVD SHLD1 - LT 8.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT 12.0' LWN SHLD2 - LT	2 - 12.0' RDWY 10.0' PVD SHLD1 - LT 8.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT 12.0' LWN SHLD2 - LT	2 - 12.0' RDWY 10.0' PVD SHLD1 - LT 8.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT 12.0' LWN SHLD2 - LT	2 - 12.0' RDWY 10.0' PVD SHLD1 - LT 8.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT 12.0' LWN SHLD2 - LT	2 - 12.0' RDWY 10.0' PVD SHLD1 - LT 8.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT 12.0' LWN SHLD2 - LT	2 - 12.0' RDWY 10.0' PVD SHLD1 - LT 8.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT 12.0' LWN SHLD2 - RT
LANE WIDTHS ARE AVERAGED	85.0' - 24.0'	87.0' - 24.0'	83.0' - 24.0'	79.0' - 24.0'	57.0' - 25.0'	70.0' - 24.0'	82.0' - 24.0'	70.0' - 24.0'	82.0' - 24.0'	70.0' - 24.0'	82.0' - 24.0'	
ROADWAY	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	
COMPOSITION	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	
HORIZONTAL ALIGNMENT												
STRUCTURE DESCRIPTION												
DISTRICT USE												
SIS												
FUN CLASS	URBAN PRIN ART OTHER											
TRAFFIC	AADT=20,500 D=53.90 K=9 T=9 12-31-17											

INSIDE CITY, AND URBAN ISLAMORADA		ISLAMORADA														
ROADWAY	82.0' - 24.0'	69.0' - 24.0'	64.0' - 24.0'	52.0' - 24.0'	70.0' - 24.0'	77.0' - 24.0'	65.0' - 24.0'	55.0' - 24.0'	63.0' - 24.0'	66.0' - 24.0'	65.0' - 24.0'	53.0' - 24.0'	65.0' - 24.0'	62.0' - 24.0'	62.0' - 24.0'	
FEATURES	2 - 12.0' RDWY 14.0 PVD MED 2 - 10.0' PVD SHLD1 2 - 12.0' LWN SHLD2	2 - 12.0' RDWY 14.0 PVD MED 10.0' PVD SHLD1 - LT 3.0' LWN SHLD2 - LT	2 - 12.0' RDWY 14.0 PVD MED 4.0' PVD SHLD1 - RT 10.0' PVD SHLD1 - RT	2 - 12.0' RDWY 14.0 PVD MED 4.0' PVD SHLD1 - RT 6.0' LWN SHLD2 - LT	2 - 12.0' RDWY 14.0 PVD MED 4.0' PVD SHLD1 - RT 6.0' LWN SHLD2 - LT	2 - 12.0' RDWY 13.0 PVD MED 10.0' PVD SHLD1 - LT 12.0' LWN SHLD2 - RT	2 - 12.0' RDWY 13.0 PVD MED 6.0' PVD SHLD1 - RT 12.0' LWN SHLD2 - RT	2 - 12.0' RDWY 13.0 PVD MED 4.0' PVD SHLD1 - LT 4.0' LWN SHLD2 - RT	2 - 12.0' RDWY 13.0 PVD MED 4.0' PVD SHLD1 - LT 4.0' LWN SHLD2 - LT	2 - 12.0' RDWY 13.0 PVD MED 4.0' PVD SHLD1 - LT 4.0' LWN SHLD2 - LT	2 - 12.0' RDWY 13.0 PVD MED 4.0' PVD SHLD1 - LT 4.0' LWN SHLD2 - RT	2 - 12.0' RDWY 13.0 PVD MED 4.0' PVD SHLD1 - LT 4.0' LWN SHLD2 - RT	2 - 12.0' RDWY 13.0 PVD MED 3.0' PVD SHLD1 - RT 3.0' LWN SHLD2 - LT	2 - 12.0' RDWY 13.0 PVD MED 3.0' PVD SHLD1 - RT 3.0' LWN SHLD2 - LT	2 - 12.0' RDWY 13.0 PVD MED 3.0' PVD SHLD1 - RT 3.0' LWN SHLD2 - LT	2 - 12.0' RDWY 13.0 PVD MED 3.0' PVD SHLD1 - RT 3.0' LWN SHLD2 - RT
LANE WIDTHS ARE AVERAGED	82.0' - 24.0'	69.0' - 24.0'	64.0' - 24.0'	52.0' - 24.0'	70.0' - 24.0'	77.0' - 24.0'	65.0' - 24.0'	55.0' - 24.0'	63.0' - 24.0'	66.0' - 24.0'	65.0' - 24.0'	53.0' - 24.0'	65.0' - 24.0'	62.0' - 24.0'	62.0' - 24.0'	
ROADWAY	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	
COMPOSITION	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	28/FC-5	
HORIZONTAL ALIGNMENT	CURVE DATA NOT FIELD VERIFIED $\Delta=27^{\circ}12'53.00''$ $D=2^{\circ}00'$ $PC=13.097$ $PI=13.228$ $PT=13.354$															
STRUCTURE DESCRIPTION	B=N39°12'55"E															
DISTRICT USE																
SIS																
FUN CLASS	URBAN PRIN ART OTHER															
TRAFFIC	AADT=20,500 D=53.90 K=9 T=9 12-31-17															

DATE	07/16/2018	SLD REV	07/23/2018	BMP	000.000	EMP	038.777	INV	Cts Engineering	SLD REV	08/03/2018
BY	Cts Engineering		Cts Engineering								

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

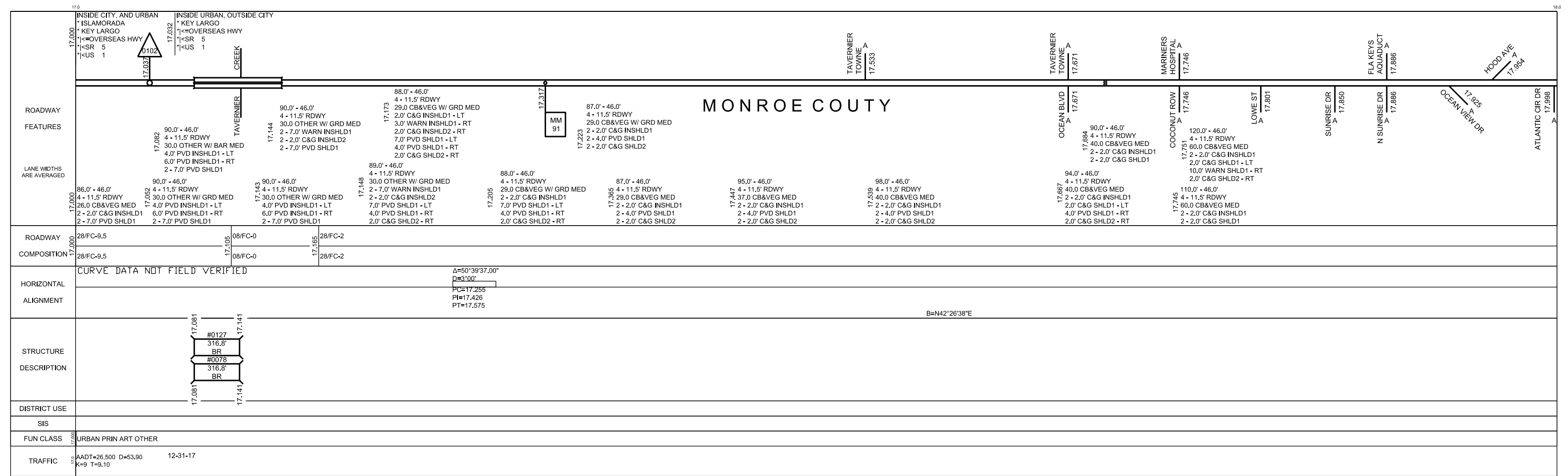
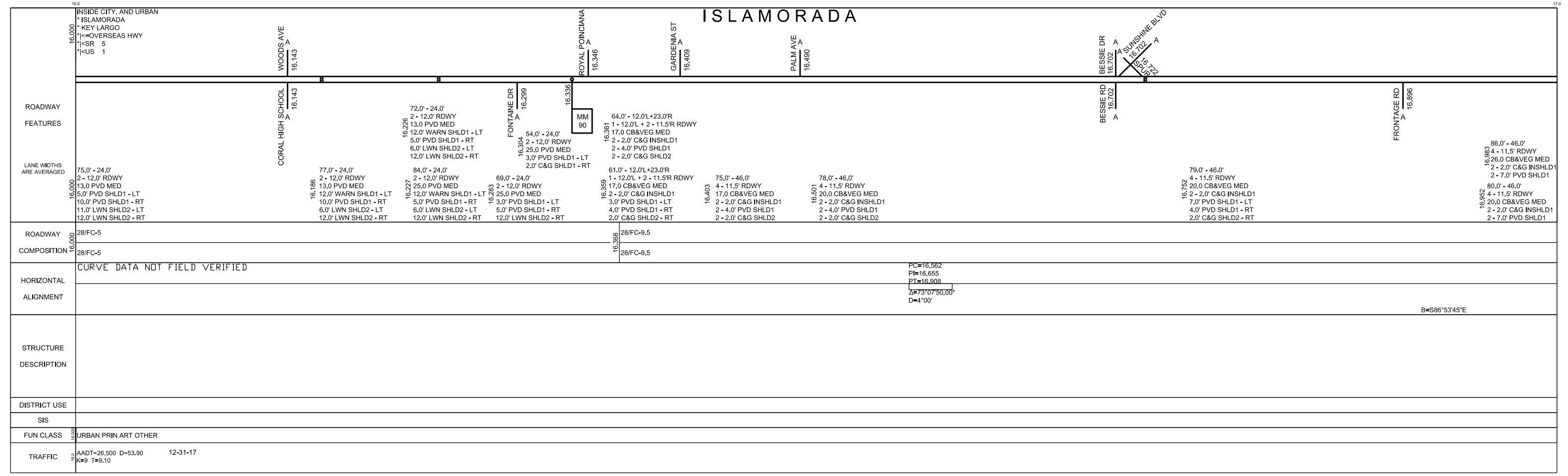
SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	8 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering				

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

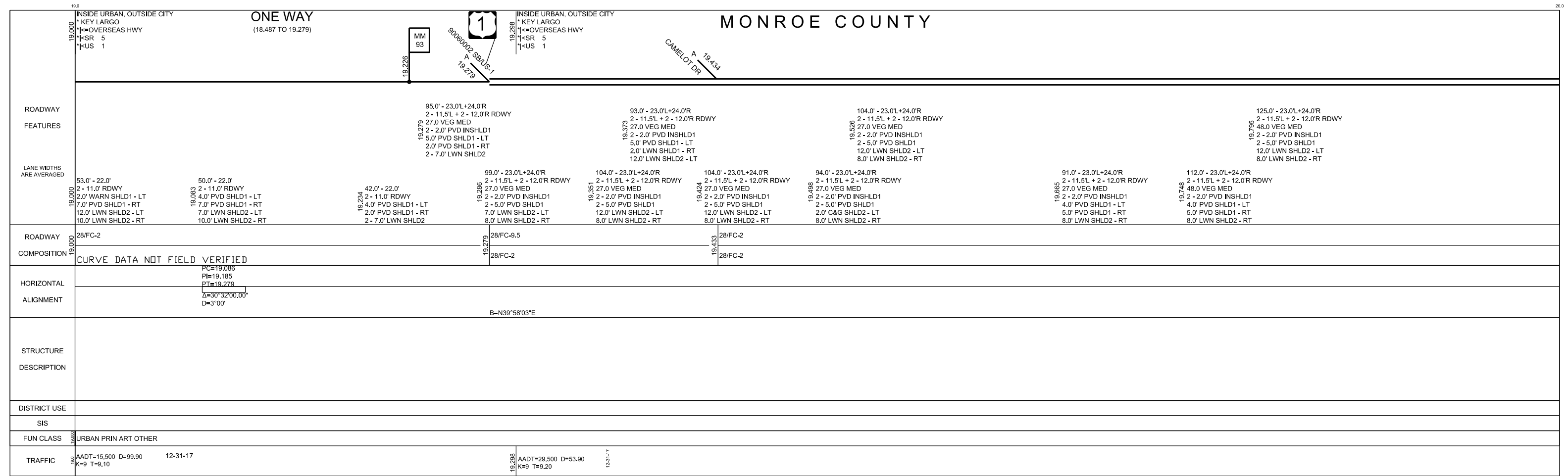
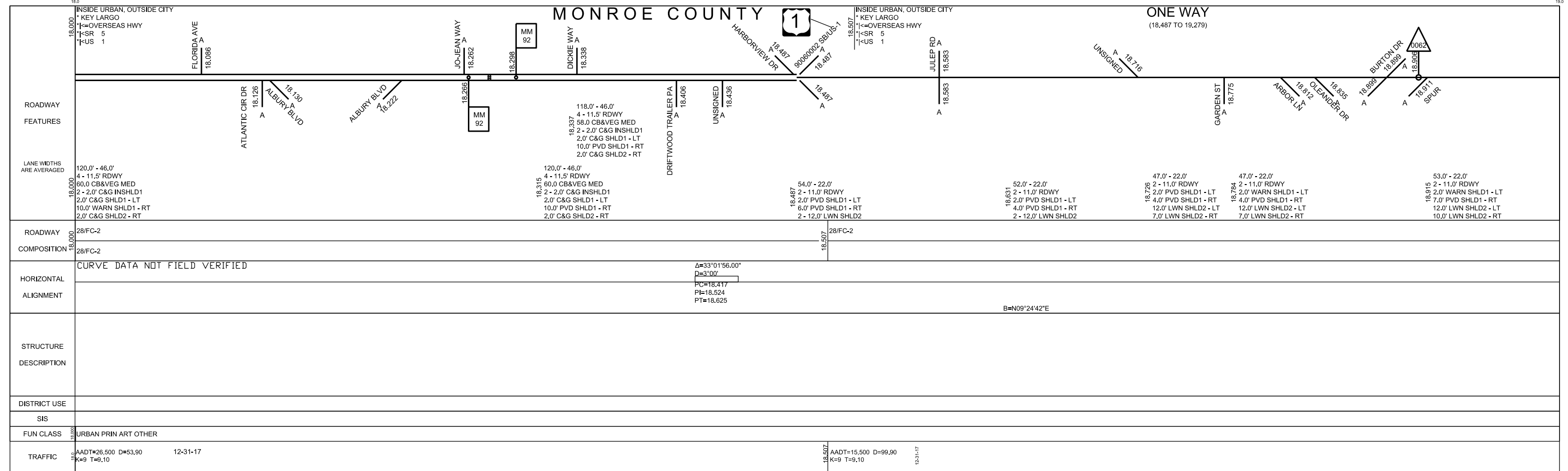
SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	9 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000.000	038.777	Cts Engineering	08/03/2018
BY	Cts Engineering	Cts Engineering			

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

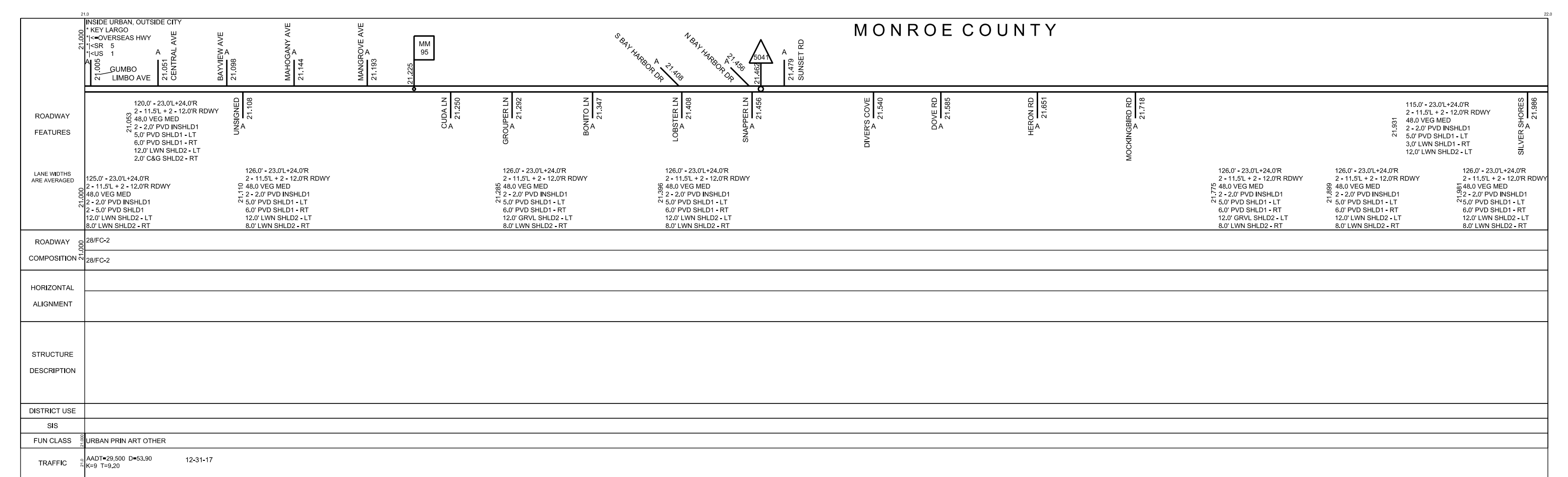
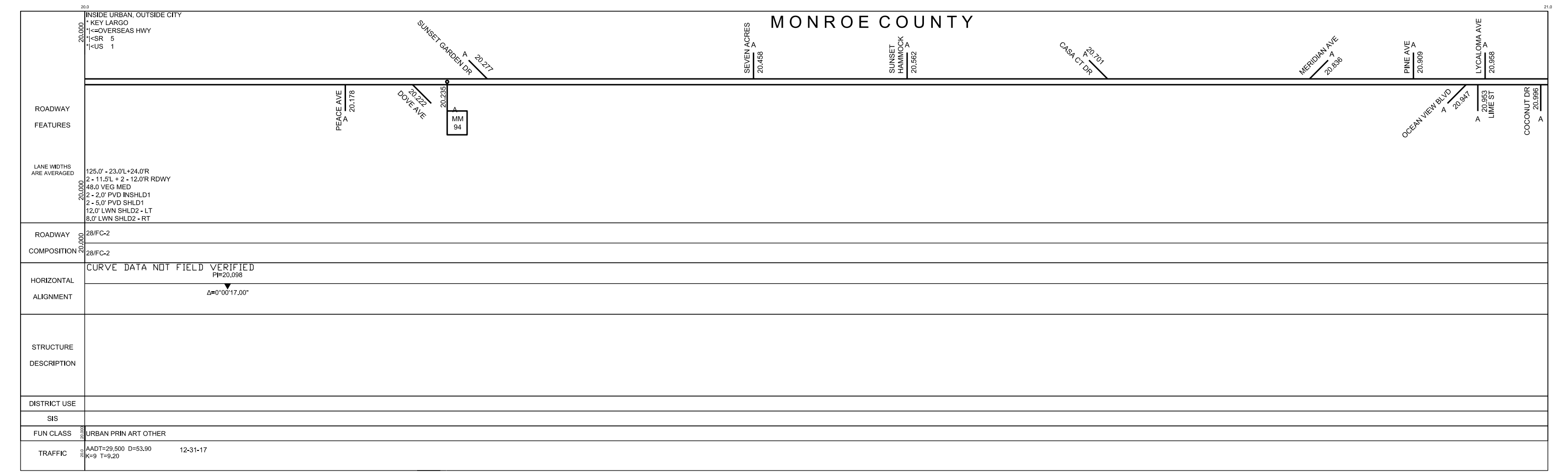
SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	10 OF 20

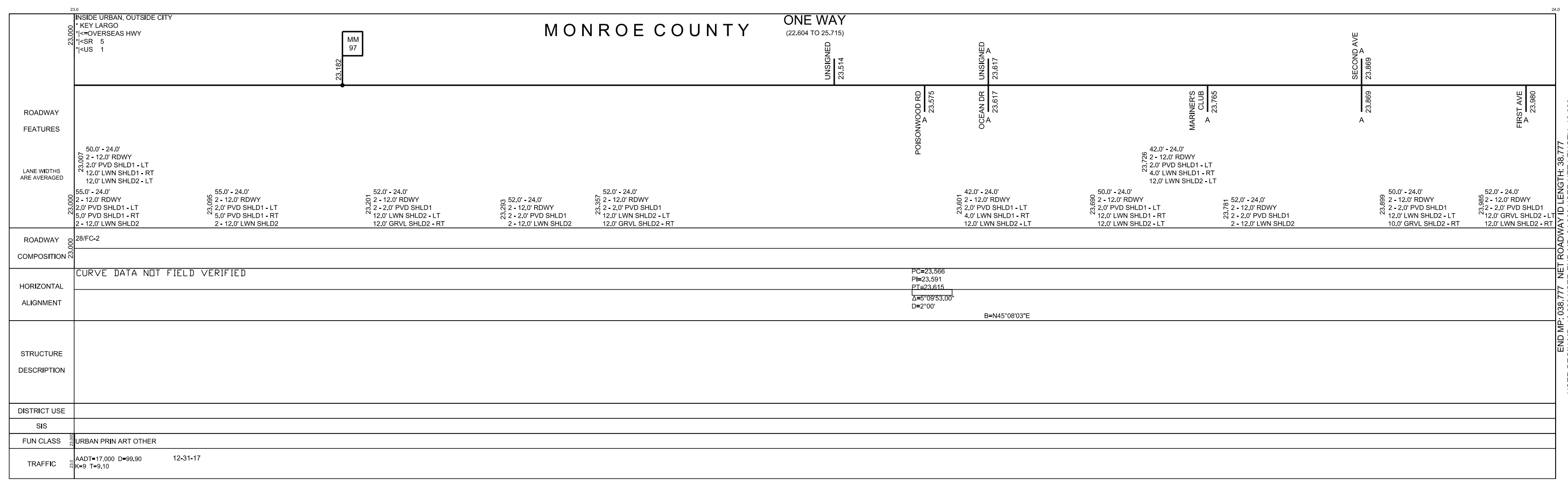
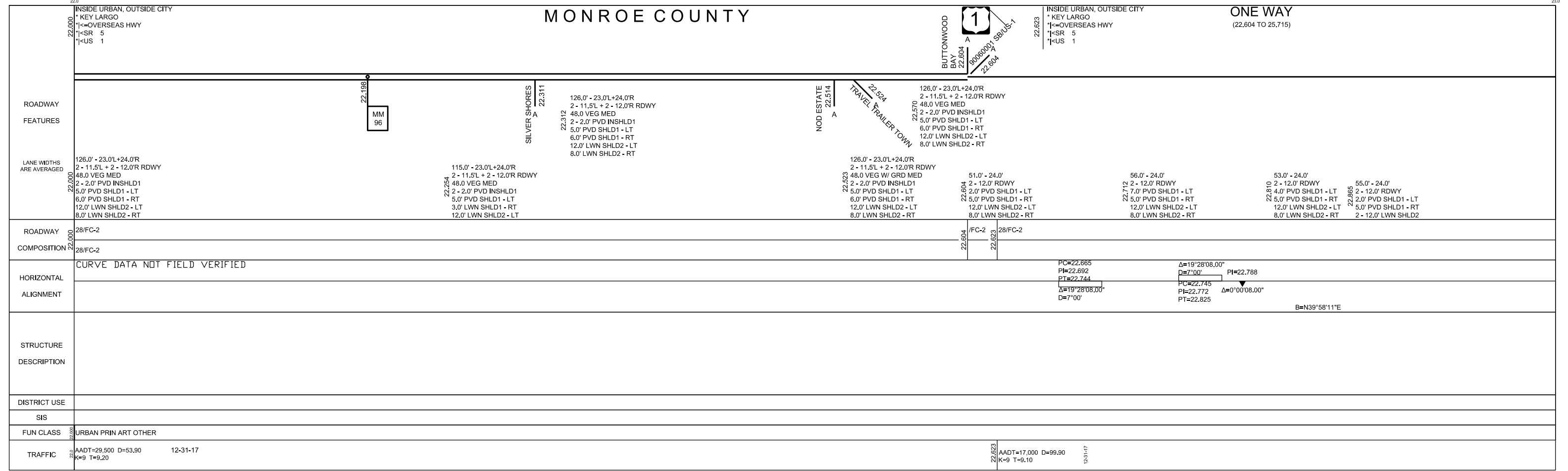


5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering	Cts Engineering			

FLORIDA DEPARTMENT OF TRANSPORTATION **FDOT**
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	11 OF 20

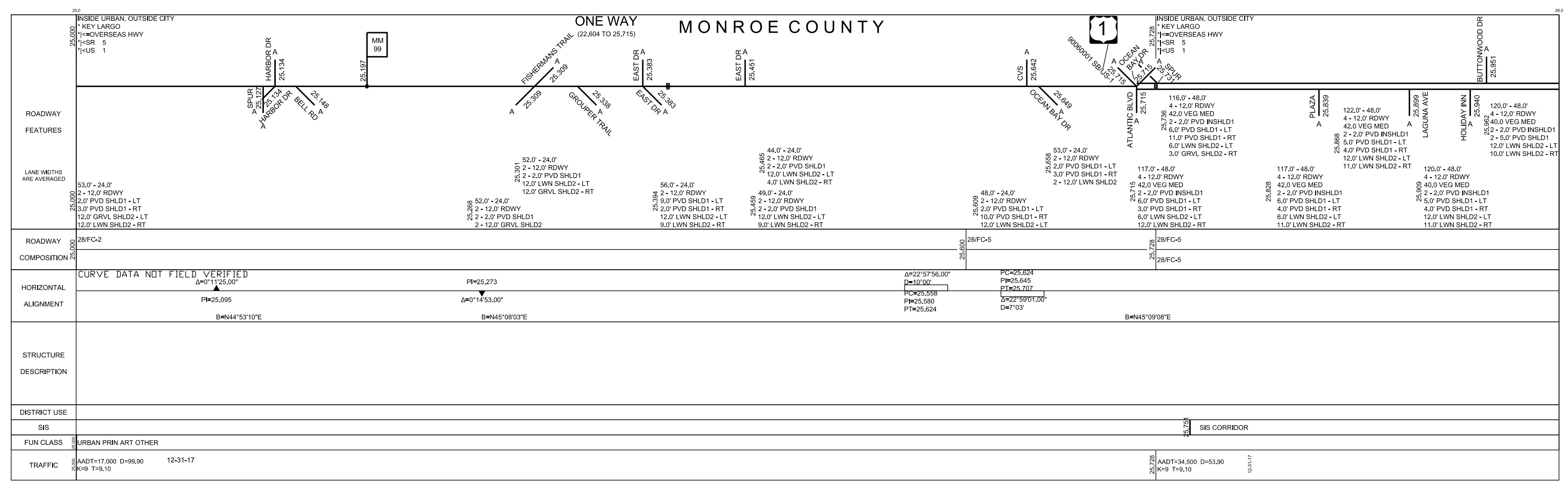
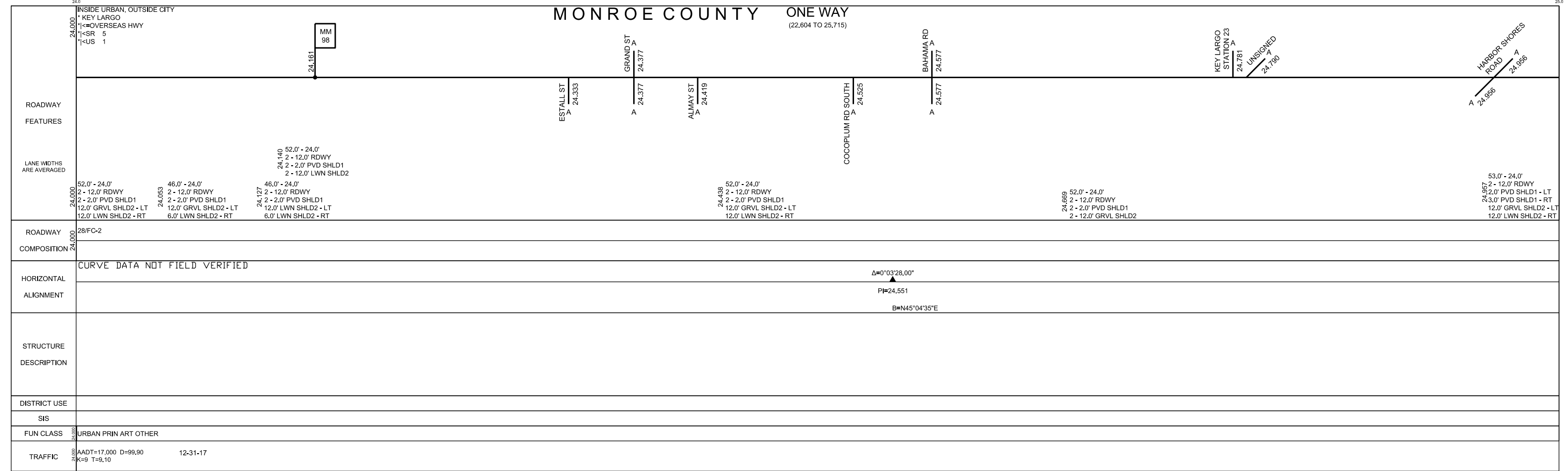




DATE	5 YR INV 07/16/2018	SLD REV 07/23/2018	BMP 000,000	EMP 038,777	INV Cts Engineering	SLD REV 08/03/2018
BY	Cts Engineering	Cts Engineering				

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

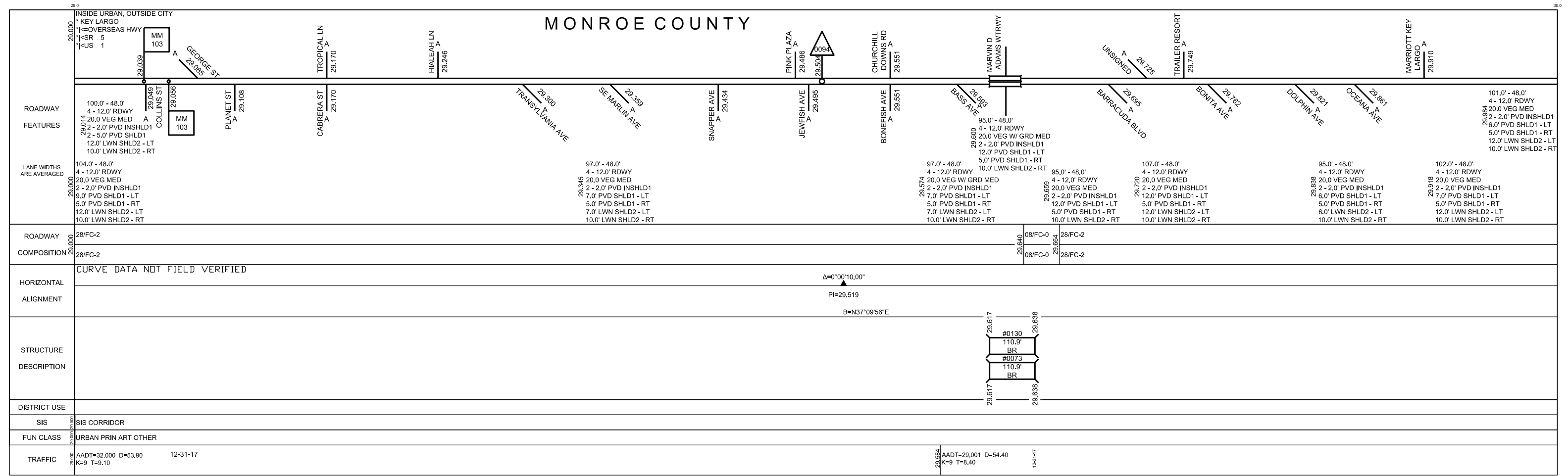
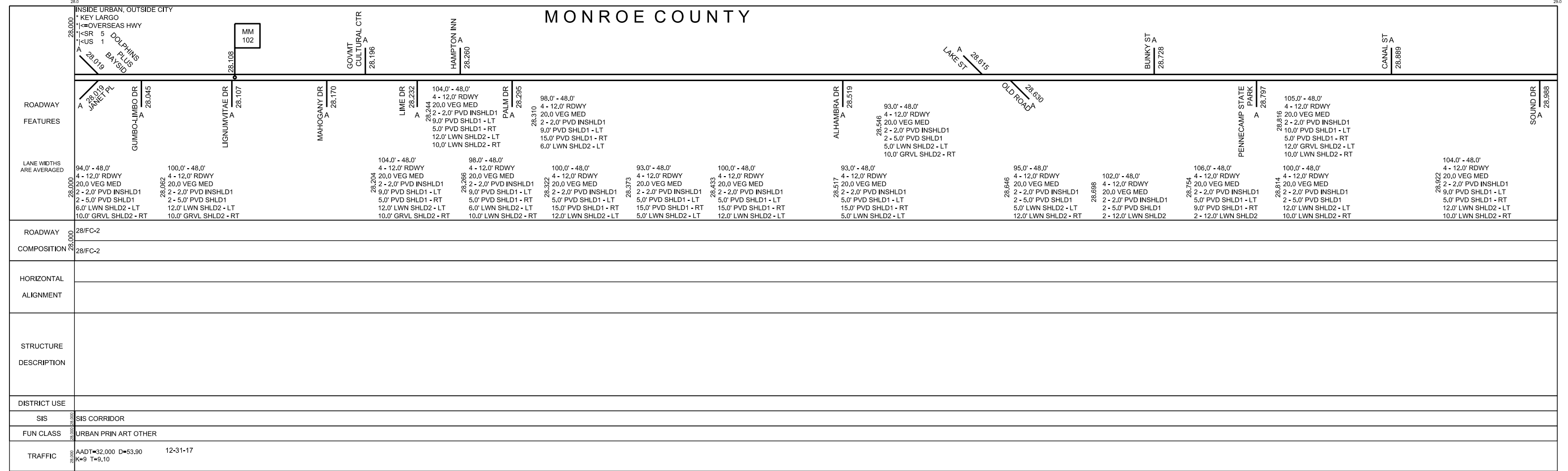
SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
02	US 1	SR 5	MONROE	06	90060000	13 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering	Cts Engineering			

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

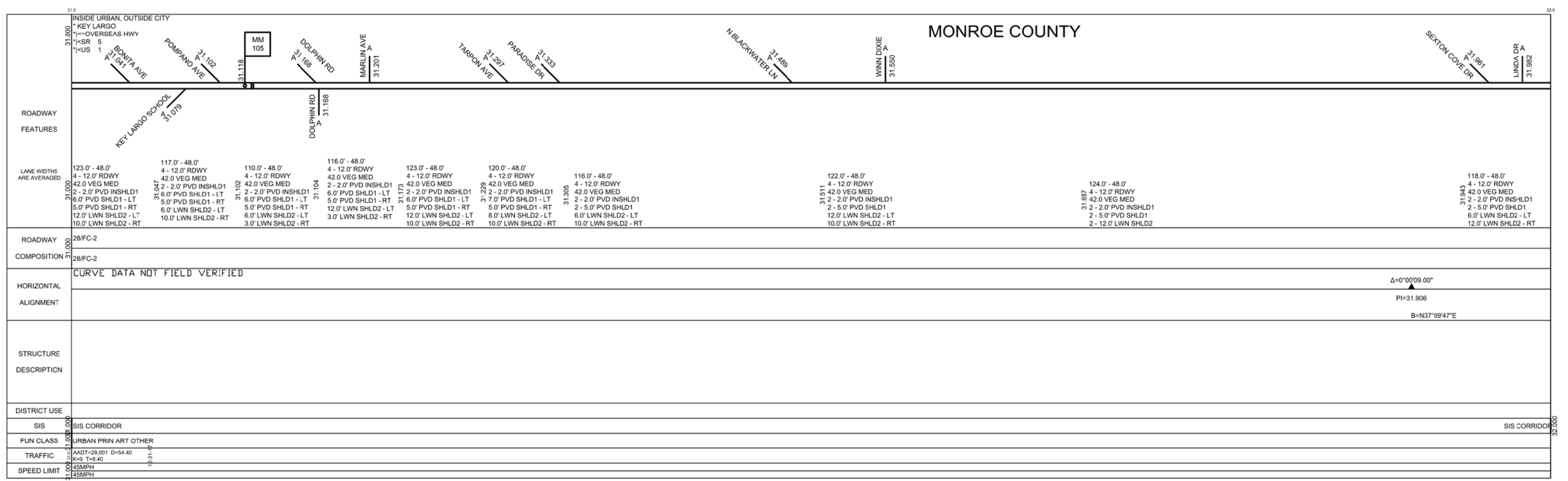
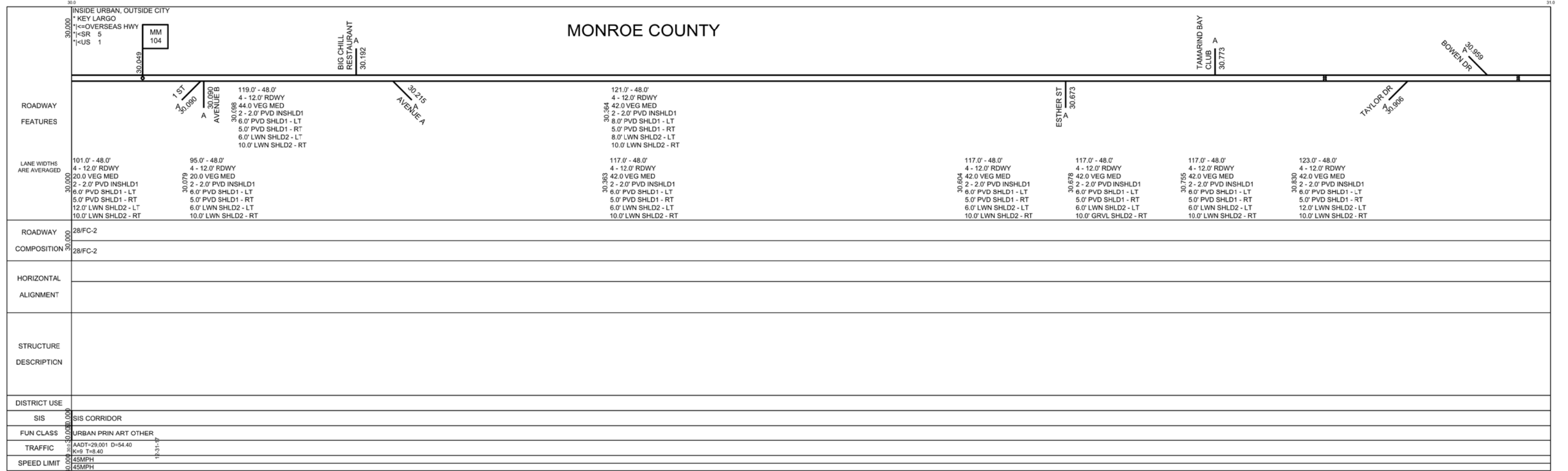
SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	15 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	030.192	030.773	2/18/2019 P2 2018 DOE	02/18/2019 CTS
BY	CTS	000.000	038.777		08/03/2018 CTS

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

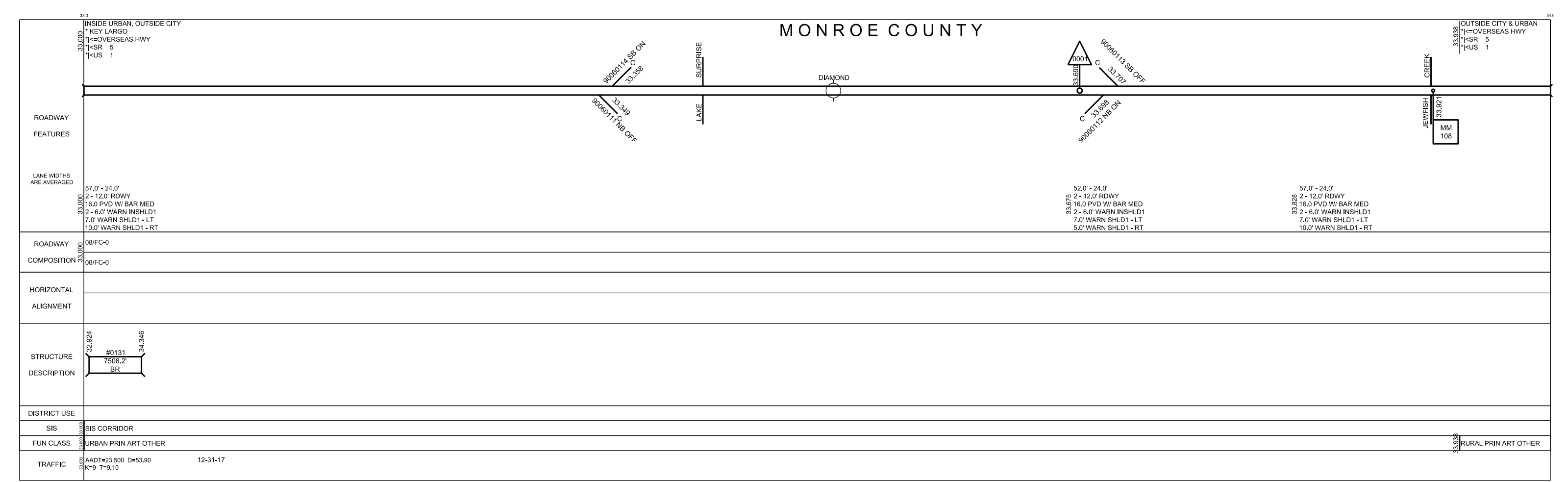
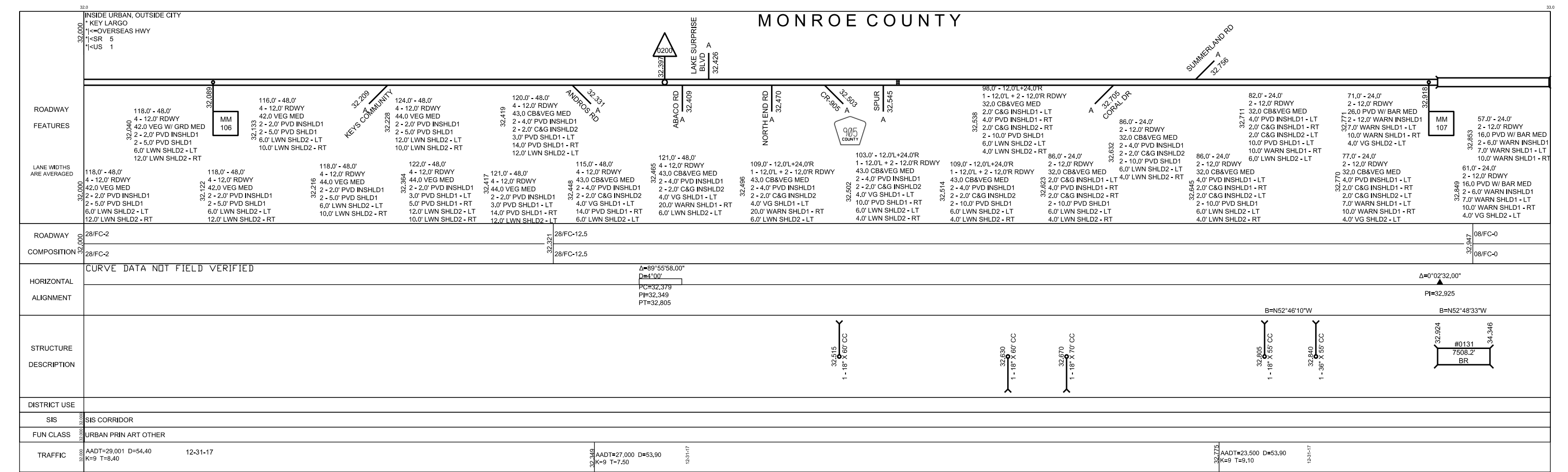
SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
02	US 1	SR 5	MONROE	06	90060000	16 OF 20



DATE	07/16/2018	SLD REV	07/23/2018	BMP	000,000	EMP	038,777	INV	Cts Engineering	SLD REV	08/03/2018
BY	Cts Engineering	Cts Engineering									

FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

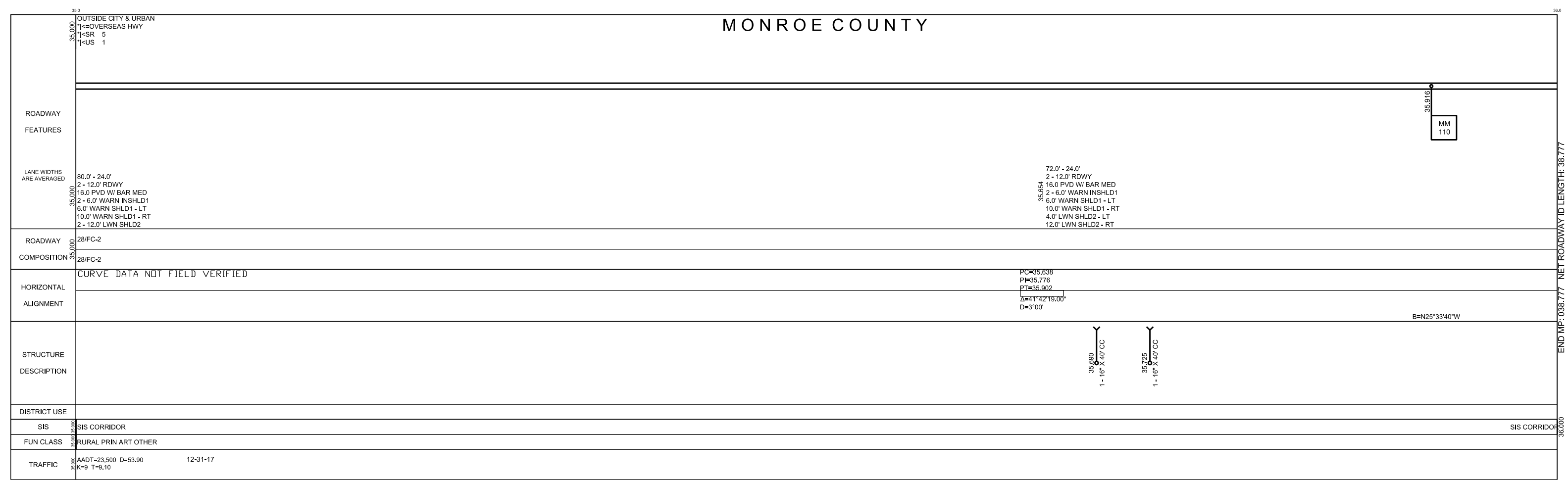
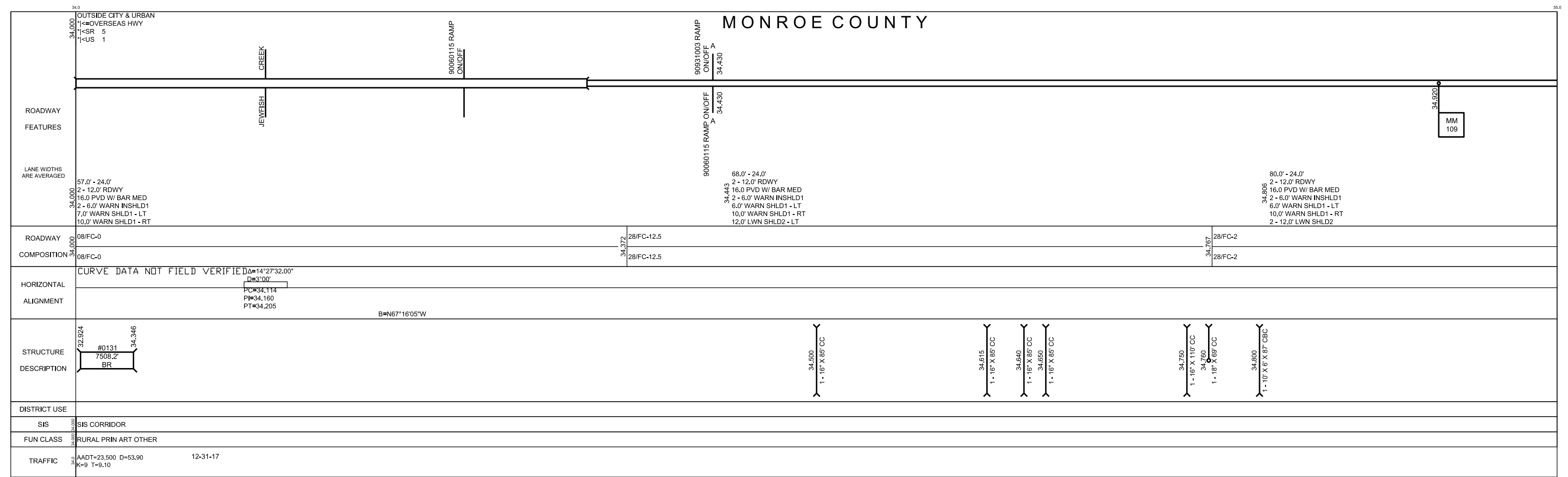
SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	17 OF 20



DATE	5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	07/23/2018	000,000	038,777	Cts Engineering	08/03/2018
BY	Cts Engineering	Cts Engineering				

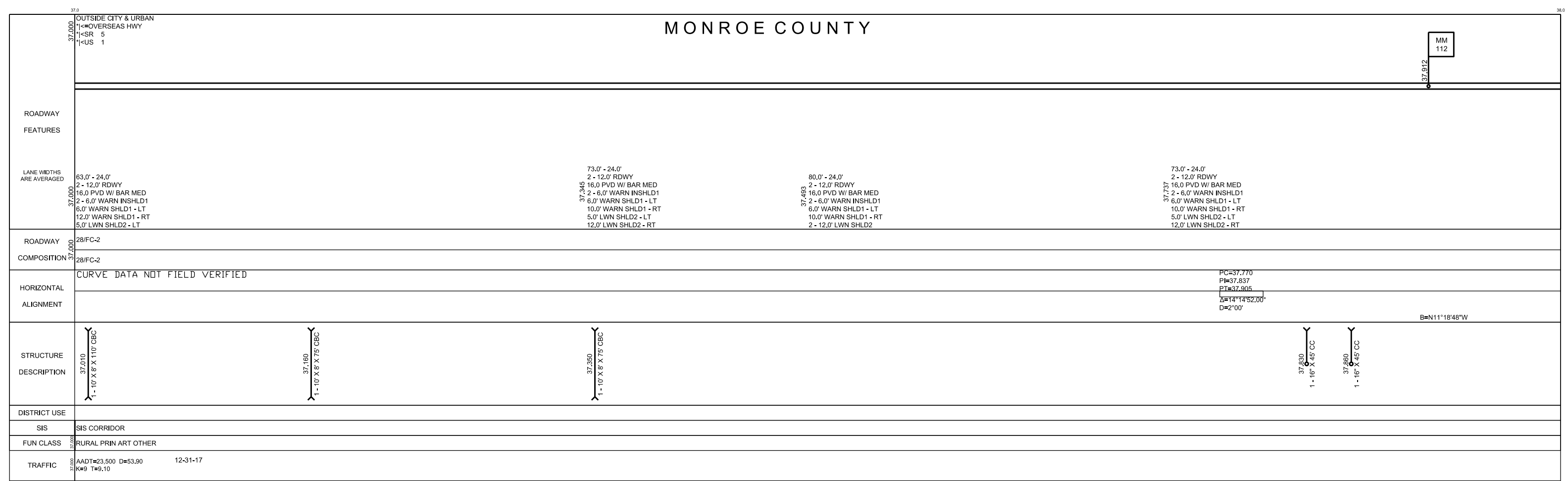
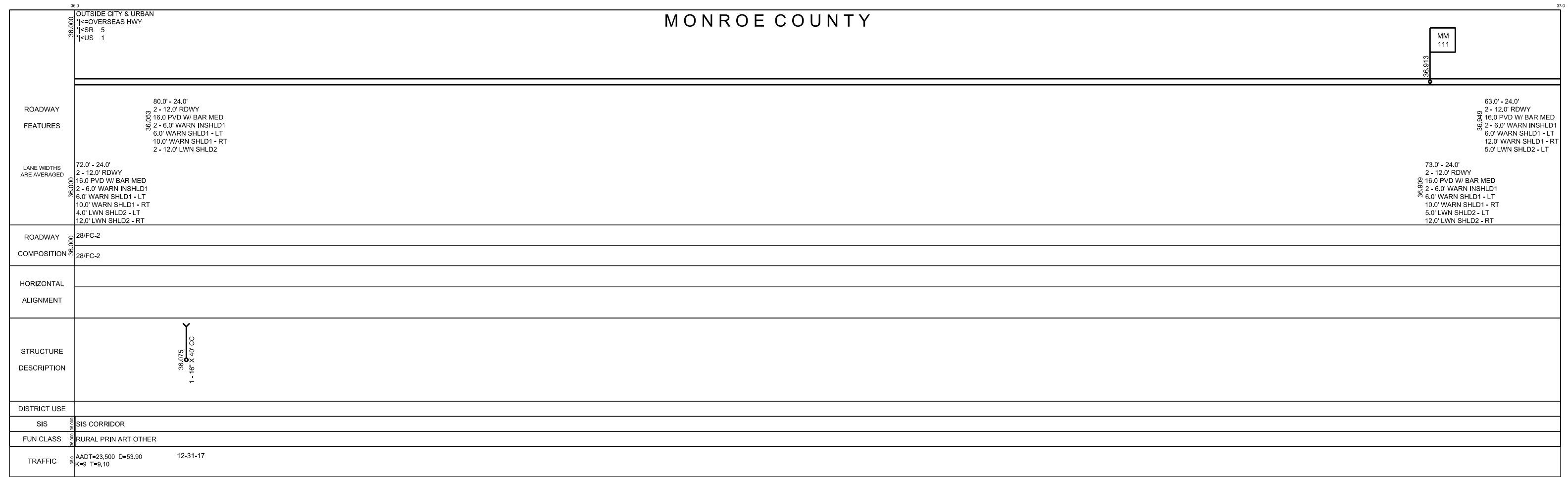
FLORIDA DEPARTMENT OF TRANSPORTATION
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	18 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
07/16/2018	07/23/2018	000.000	038.777	Cts Engineering	08/03/2018
BY	Cts Engineering	Cts Engineering			

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	19 OF 20



5 YR INV	SLD REV	BMP	EMP	INV	SLD REV
DATE 07/16/2018	08/03/2018	000.000	038.777	Cts Engineering	08/03/2018
BY Cts Engineering	Cts Engineering				

FLORIDA DEPARTMENT OF TRANSPORTATION **FDOT**
STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

SECTION STATUS	INT. or US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO:
02	US 1	SR 5	MONROE	06	90060000	20 OF 20

MONROE COUNTY

ROADWAY FEATURES	OUTSIDE CITY & URBAN *← OVERSEAS HWY *← SR 5 *← US 1	79.0' - 24.0' 2 - 12.0' RDWY 16.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 5.0' WARN SHLD1 - LT 10.0' WARN SHLD1 - RT 2 - 12.0' LWN SHLD2	62.0' - 24.0' 2 - 12.0' RDWY 16.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 5.0' WARN SHLD1 - LT 12.0' WARN SHLD1 - RT 5.0' LWN SHLD2 - LT	76.0' - 24.0' 2 - 12.0' RDWY 32.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 5.0' WARN SHLD1 - LT 10.0' WARN SHLD1 - RT 5.0' LWN SHLD2 - LT	84.0' - 24.0' 2 - 12.0' RDWY 32.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 6.0' WARN SHLD1 - LT 10.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - LT	GPS COORDINATES 25°14'7.716" -80°25'59.4"	MORRIS AVE 38,718	MANATEE CREEK N END BR900139/CO LN 38,777
LANE WIDTHS ARE AVERAGED	73.0' - 24.0' 2 - 12.0' RDWY 16.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 6.0' WARN SHLD1 - LT 10.0' WARN SHLD1 - RT 5.0' LWN SHLD2 - LT 12.0' LWN SHLD2 - RT	81.0' - 24.0' 2 - 12.0' RDWY 16.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 5.0' WARN SHLD1 - LT 12.0' WARN SHLD1 - RT 2 - 12.0' LWN SHLD2	69.0' - 24.0' 2 - 12.0' RDWY 16.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 5.0' WARN SHLD1 - LT 12.0' WARN SHLD1 - RT 12.0' LWN SHLD2 - LT	60.0' - 24.0' 2 - 12.0' RDWY 16.0 PVD W/ BAR MED 2 - 6.0' WARN INSHLD1 5.0' WARN SHLD1 - LT 10.0' WARN SHLD1 - RT 5.0' LWN SHLD2 - LT				
ROADWAY COMPOSITION	28/FC-2	28/FC-2	28/FC-2	28/FC-2	28/FC-2			
HORIZONTAL ALIGNMENT								
STRUCTURE DESCRIPTION	38,010 1 - 16" X 45' CC	38,030 1 - 16" X 45' CC	38,040 1 - 16" X 45' CC	38,390 1 - 10' X 8' X 85' CBC	38,505 1 - 10' X 8' X 85' CC	38,655 1 - 16" X 85' CC	38,764 #0139 BR	38,777
DISTRICT USE								
SIS	SIS CORRIDOR						SIS CORRIDOR	
FUN CLASS	RURAL PRIN ART OTHER							
TRAFFIC	AADT=23,500 D=53.90 K=9 T=9.10	12-31-17						



Attachment C: Crash Summaries and CARS Data

LOCATION INFORMATION CONFIDENCE LEVEL COMPUTATIONS

Location:	SR 5/US 1/Overseas Highway from MP 11.939 (MM 85.715) to MP 13.417 (MM 87.160)	
State Section:	90060000	County: Monroe
State Road:	5	District: 6
Roadway Limits:	SR 5/US 1/Overseas Highway from MP 11.939 (MM 85.715) to MP 13.417 (MM 87.160)	
Engineer:	FDOT	
Area Type:	Urban	
Spot/Segment:	Segment	
Spot Type:	2-3Ln 2Wy Divd Pavd	
Begin Milepost:	11.939	
End Milepost:	13.417	
Begin Year:	2016	
End Year:	2018	
Number of Years:	3	

CRASH STATISTICS

Year	2016	2017	2018
Number of Crashes	34	24	20
Average Daily Traffic (ADT)	22,000	26,500	30,000
Actual Crash Rate (ACR)	2.865	1.679	1.236
District 6 Average Crash Rate (A)	13.003	16.135	18.220
Average Vehicle Exposure (M)	11.868	14.296	16.184
Critical Crash Rate (CCR)	16.406	19.596	21.681
Safety Ratio	0.175	0.086	0.057
Statistical Significance	-9.646	-13.574	-15.978
Confidence Level	50.0000%	50.0000%	50.0000%

ADT – Average Daily Traffic

ACR – Actual Crash Rate = No. of crashes in a year / Average Vehicle Exposure (M)

M – Average Vehicle Exposure (million vehicles or million vehicles miles) = [(ADT * 365 * L) / 1,000,000]

L = Length of the Segment for Segment Analysis, 1 for Spot Analysis

A – Average Crash Rate

CCR – Critical Crash Rate = $A + K * (\text{SQRT}[A/M]) - (1/[2 * M])$

(Ref: FDOT Highway Safety Improvement Program Guidelines)

K = 3.291 for Urban, 1.960 for Suburban, 1.645 for Rural

K = 3.291

Safety Ratio = ACR/CCR

Level of statistical significance = $(\text{ACR} - A + (1/2M))/\text{SQRT}(A/M)$

Confidence Level = Percent probability that the crash rate is abnormally high for the location under study,
using the district-wide average as a basis. CL Threshold = 99.95%

**LOCATION INFORMATION
CONFIDENCE LEVEL COMPUTATIONS**

State of Florida Department of Transportation CRASH SUMMARY																
SECTION: <u>90060000</u>										STATE ROUTE: <u>5</u>						
ROADWAY LIMITS: <u>SR 5/US 1/Overseas Highway from MP 11.939 (MM 85.71</u>										M.P. <u>11.939</u>		TO <u>13.417</u>		ENGINEER: <u>FDOT</u>		
STUDY PERIOD: FROM <u>1/ 2016</u>										TO <u>12/ 2016</u>		COUNTY: <u>Monroe</u>				
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE	FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)					
1	13.015	01/01/16	Fri	1111	Backed Into	0	0	1	Day	Dry	Improper Backing					
2	12.002	01/02/16	Sat	1255	Rear-End	1	9	0	Day	Dry	Careless or Negligent Manner					
3	12.214	01/19/16	Tue	1441	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
4	13.352	01/30/16	Sat	1854	Rear-End	0	5	0	Night	Dry	Careless or Negligent Manner					
5	13.252	02/09/16	Tue	1335	Rear-End	0	1	0	Day	Dry	Careless or Negligent Manner					
6	12.214	02/12/16	Fri	1324	Sideswipe	0	0	1	Day	Dry	#N/A					
7	12.058	03/02/16	Wed	2123	Angle	0	0	1	Night	Dry	Improper Turn					
8	12.164	03/13/16	Sun	1130	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
9	12.119	03/15/16	Tue	1600	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
10	12.240	03/19/16	Sat	1145	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
11	12.002	03/20/16	Sun	1620	Utility Pole/Light Support	0	0	1	Day	Dry	Failed To Keep In Proper Lane					
12	12.214	03/25/16	Fri	1740	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
13	12.107	03/30/16	Wed	1515	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
14	12.102	04/23/16	Sat	1215	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
15	12.999	04/23/16	Sat	1650	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
16	14.780	04/30/16	Sat	1200	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
17	12.883	05/19/16	Thu	1332	Angle	0	0	1	Day	Dry	Failed to Yield Right-Of-Way					
18	12.050	05/29/16	Sun	1648	Rear-End	0	5	0	Day	Dry	Careless or Negligent Manner					
19	13.070	05/29/16	Sun	1615	Rear-End	0	1	0	Day	Dry	Careless or Negligent Manner					
20	12.402	05/31/16	Tue	1310	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
21	13.070	06/07/16	Tue	1455	Angle	0	1	0	Day	Dry	Ran Stop Sign					
22	12.702	06/19/16	Sun	1210	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
23	12.302	06/27/16	Mon	1952	Head-On	1	3	0	Night	Dry	Failed To Keep In Proper Lane					
24	12.214	07/16/16	Sat	1710	Rear-End	0	2	0	Day	Dry	Careless or Negligent Manner					
25	11.969	07/30/16	Sat	1445	Angle	0	1	0	Day	Dry	Failed To Keep In Proper Lane					
26	11.952	08/12/16	Fri	0300	Bridge Rail	0	0	1	Night	Wet	No Contributing Action					
27	13.699	08/13/16	Sat	1648	Rear-End	0	1	0	Day	Dry	Careless or Negligent Manner					
28	12.883	08/31/16	Wed	1117	Rear-End	0	2	0	Day	Dry	Careless or Negligent Manner					
29	12.702	09/25/16	Sun	0940	Sideswipe	0	0	1	Day	Dry	Careless or Negligent Manner					
30	12.900	10/14/16	Fri	1217	Angle	2	1	0	Day	Dry	Failed to Yield Right-Of-Way					
31	12.911	10/27/16	Thu	1013	Rear-End	0	0	1	Day	Dry	Careless or Negligent Manner					
32	12.202	11/28/16	Mon	1025	Angle	0	1	0	Day	Dry	Ran Stop Sign					
33	12.452	12/14/16	Wed	1250	Sideswipe	0	0	1	Day	Dry	#N/A					
34	12.496	12/26/16	Mon	1850	Rear-End	0	0	1	Night	Dry	Careless or Negligent Manner					
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other	
34	3	13	21	21	1	6	0	0	3	1	0	0	2	0	0	
Percent	8.82%	38.24%	61.76%	61.76%	2.94%	17.65%	0.00%	0.00%	8.82%	2.94%	0.00%	0.00%	5.88%	0.00%	0.00%	
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way	
Total	29	5	1	33	22	2	1	0	0	0	0	0	0	1	0	
Percent	85.29%	14.71%	2.94%	97.06%	64.71%	5.88%	2.94%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.94%	0.00%	
TOTAL ENTERING VEHICLES/ADT: 22,000							SEGMENT CRASH RATE: 2.865 CRASHES PER MILLION VEHICLE MILES									

**LOCATION INFORMATION
CONFIDENCE LEVEL COMPUTATIONS**

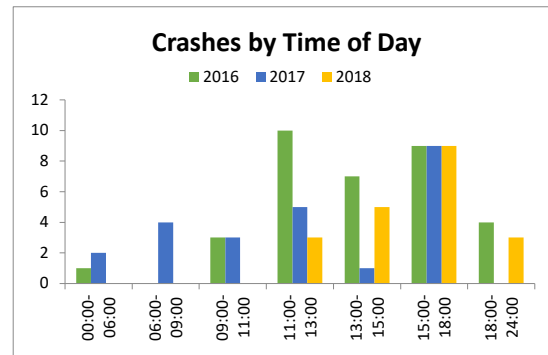
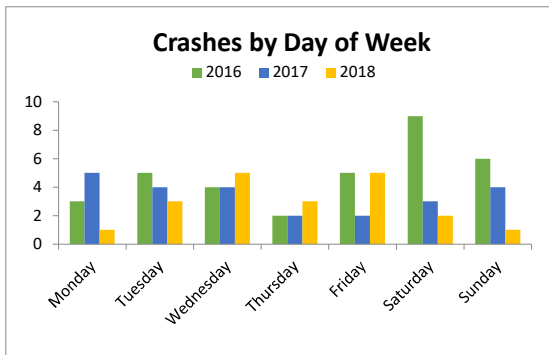
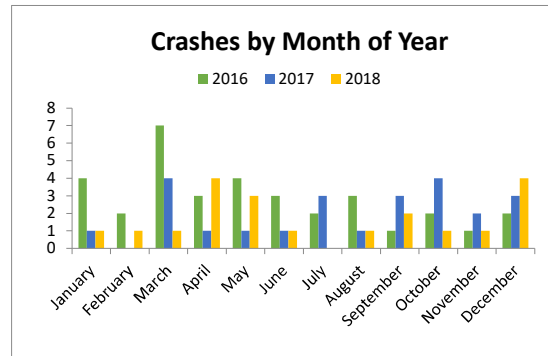
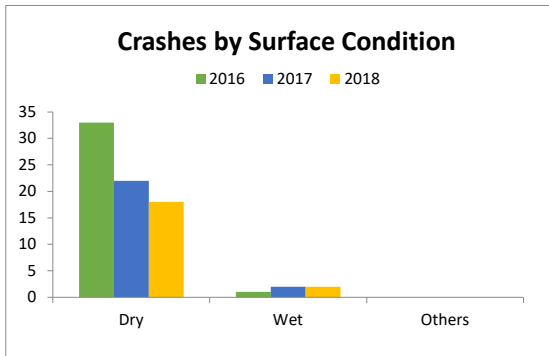
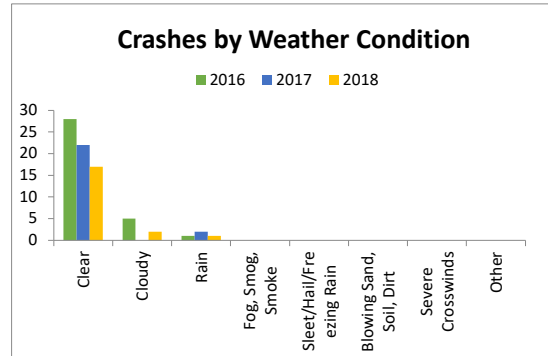
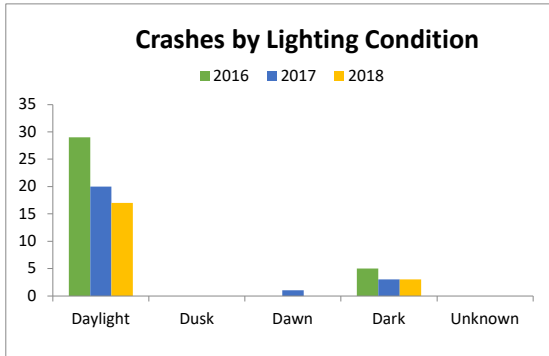
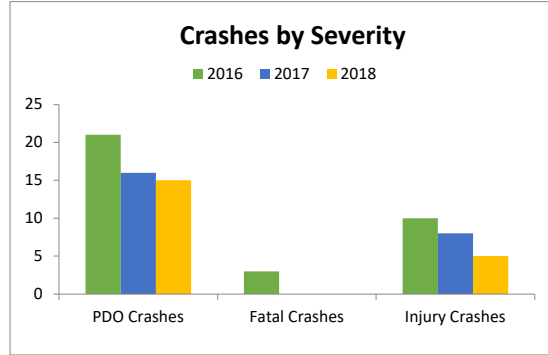
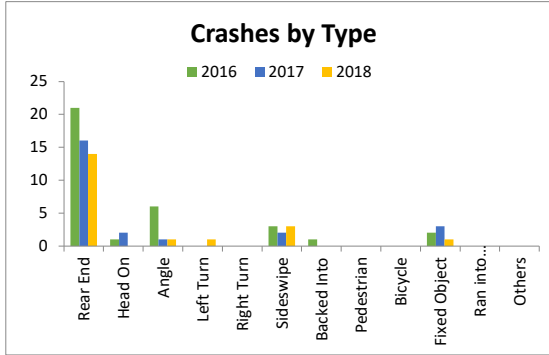
State of Florida Department of Transportation CRASH SUMMARY																	
SECTION: <u>90060000</u>											STATE ROUTE: <u>5</u>						
ROADWAY LIMITS: <u>SR 5/US 1/Overseas Highway from MP 11.939 (MM 85.71</u>											M.P. <u>11.939</u>		TO <u>13.417</u>		ENGINEER: <u>FDOT</u>		
STUDY PERIOD: FROM <u>1/ 2017</u>											TO <u>12/ 2017</u>		COUNTY: <u>Monroe</u>				
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)				
1	11.952	01/25/17	Wed	1259	Rear-End			0	1	0	Day	Dry	No Contributing Action				
2	13.438	03/03/17	Fri	1057	Embankment			0	0	1	Day	Dry	Careless or Negligent Manner				
3	12.208	03/13/17	Mon	1551	Sideswipe			0	0	1	Day	Dry	Failed to Yield Right-Of-Way				
4	13.015	03/14/17	Tue	1223	Head-On			0	4	0	Day	Dry	Failed To Keep In Proper Lane				
5	12.702	03/23/17	Thu	1015	Head-On			0	1	0	Day	Dry	Careless or Negligent Manner				
6	13.257	04/02/17	Sun	1715	Rear-End			0	0	1	Day	Dry	No Contributing Action				
7	12.702	05/14/17	Sun	0209	Embankment			0	0	1	Night	Dry	#N/A				
8	12.214	06/24/17	Sat	1155	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner				
9	12.302	07/11/17	Tue	1110	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner				
10	14.227	07/17/17	Mon	1529	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner				
11	13.257	07/31/17	Mon	1515	Rear-End			0	0	1	Day	Wet	Careless or Negligent Manner				
12	12.402	08/13/17	Sun	1035	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner				
13	12.214	09/02/17	Sat	1517	Angle			0	1	0	Day	Dry	Ran Stop Sign				
14	12.702	09/23/17	Sat	1240	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner				
15	13.650	09/24/17	Sun	0643	Rear-End			0	1	0	Day	Dry	Careless or Negligent Manner				
16	12.452	10/03/17	Tue	0250	Tree (Standing)			0	0	1	Night	Dry	Careless or Negligent Manner				
17	12.249	10/09/17	Mon	1327	Sideswipe			0	0	1	Day	Dry	#N/A				
18	13.257	10/24/17	Tue	1515	Rear-End			0	0	1	Day	Wet	Followed too Closely				
19	13.259	10/27/17	Fri	1500	Rear-End			0	2	0	Day	Dry	Other Contributing Action				
20	12.892	11/01/17	Wed	0700	Rear-End			0	0	1	Night	Dry	Careless or Negligent Manner				
21	12.402	11/06/17	Mon	0700	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner				
22	12.214	12/06/17	Wed	1528	Rear-End			0	2	0	Day	Dry	#N/A				
23	12.214	12/20/17	Wed	0632	Rear-End			0	1	0	Day	Dry	No Contributing Action				
24	12.224	12/28/17	Thu	1645	Rear-End			0	0	1	Night	Dry	Careless or Negligent Manner				
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other		
24	0	8	16	16	2	1	0	0	2	0	0	0	3	0	0		
Percent	0.00%	33.33%	66.67%	66.67%	8.33%	4.17%	0.00%	0.00%	8.33%	0.00%	0.00%	0.00%	12.50%	0.00%	0.00%		
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way		
Total	20	4	2	22	13	1	0	0	0	0	0	0	0	0	0		
Percent	83.33%	16.67%	8.33%	91.67%	54.17%	4.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
TOTAL ENTERING VEHICLES/ADT:								26,500	SEGMENT CRASH RATE:								1.679 CRASHES PER MILLION VEHICLE MILES

**LOCATION INFORMATION
CONFIDENCE LEVEL COMPUTATIONS**

State of Florida Department of Transportation CRASH SUMMARY																	
SECTION: <u>90060000</u>											STATE ROUTE: <u>5</u>						
ROADWAY LIMITS: <u>SR 5/US 1/Overseas Highway from MP 11.939 (MM 85.71</u>											M.P. <u>11.939</u>		TO <u>13.417</u>		ENGINEER: <u>FDOT</u>		
STUDY PERIOD: FROM <u>1/ 2018</u>											TO <u>12/ 2018</u>		COUNTY: <u>Monroe</u>				
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE				FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)			
1	12.268	01/02/18	Tue	1304	Rear-End				0	0	1	Day	Wet	Careless or Negligent Manner			
2	12.107	02/22/18	Thu	1155	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
3	12.452	03/20/18	Tue	2255	Sideswipe				0	1	0	Night	Dry	Failed To Keep In Proper Lane			
4	12.224	04/02/18	Mon	1429	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
5	12.984	04/06/18	Fri	1519	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
6	12.224	04/10/18	Tue	1242	Sideswipe				0	1	0	Day	Dry	Failed to Yield Right-Of-Way			
7	14.719	04/27/18	Fri	1426	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
8	12.995	05/04/18	Fri	1105	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
9	12.928	05/12/18	Sat	1510	Rear-End				0	1	0	Day	Dry	No Contributing Action			
10	12.881	05/17/18	Thu	1618	Sideswipe				0	0	1	Day	Wet	Failed To Keep In Proper Lane			
11	12.702	06/22/18	Fri	1545	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
12	13.257	08/16/18	Thu	1530	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
13	12.214	09/19/18	Wed	1405	Rear-End				0	0	1	Day	Dry	No Contributing Action			
14	12.224	09/19/18	Wed	1613	Rear-End				0	1	0	Day	Dry	Careless or Negligent Manner			
15	12.214	10/24/18	Wed	2136	Traffic Sign Support				0	0	1	Night	Dry	No Contributing Action			
16	12.883	11/14/18	Wed	1855	Angle				0	0	1	Night	Dry	#N/A			
17	14.227	12/07/18	Fri	1546	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
18	13.005	12/19/18	Wed	1545	Left-Turn				0	1	0	Day	Dry	Careless or Negligent Manner			
19	12.011	12/22/18	Sat	1708	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner			
20	13.257	12/30/18	Sun	1343	Rear-End				0	0	1	Day	Dry	Followed too Closely			
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other		
20	0	5	15	14	0	1	1	0	3	0	0	0	1	0	0		
Percent	0.00%	25.00%	75.00%	70.00%	0.00%	5.00%	5.00%	0.00%	15.00%	0.00%	0.00%	0.00%	5.00%	0.00%	0.00%		
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg.Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way		
Total	17	3	2	18	12	1	0	0	0	0	0	0	0	1	0		
Percent	85.00%	15.00%	10.00%	90.00%	60.00%	5.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	0.00%		
TOTAL ENTERING VEHICLES/ADT:									30,000		SEGMENT CRASH RATE:					1.236 CRASHES PER MILLION VEHICLE MILES	

**LOCATION INFORMATION
CONFIDENCE LEVEL COMPUTATIONS**

SR 5/US 1/Overseas Highway from MP 11.939 (MM 85.715) to MP 13.417 (MM 87.160)





Attachment D: Fatal Crash Reviews

DISPOSITION OF FATAL CRASH

DISTRICT SIX INITIAL REVIEW

<input checked="" type="checkbox"/> Relevant Studies/CTPs	N/A
<input checked="" type="checkbox"/> Relevant Programmed Projects	FDOT Routine Maintenance Project (#405798-3), SR 5 from MM 72 to north of MM 91, Fiscal Years 2012-2017

 CRASH NARRATIVE

The subject fatal crash was an angle collision that occurred on SR 5/US 1 and East Ridge Road, MM 86.8. The fatal crash occurred on Friday, October 14, 2016, at 12:17 PM (daylight), under dry pavement and clear weather conditions. According to the police report, a westbound vehicle proceeding from a stopped control condition failed to yield the right-of-way to a northbound vehicle traveling along US 1. The westbound vehicle was attempting to turn left onto southbound US 1. Northbound vehicle was estimated to be traveling at the posted speed limit of US 1. The driver and a passenger for the vehicle at fault for this crash perished; both the driver and passenger were wearing their seatbelts. Neither alcohol or drugs were suspected to be contributing causes to this crash.

 CRASH DATA REVIEW (Crash Summary Sheets Attached)

The crash data for the three most recent years (from January 2013 to December 2015) along US 1/SR 5 (90060000) from MP 12.966 to MP 13.155 was downloaded and summarized from FDOT's Crash Analysis Reporting System (CARS) on-line database. Based on a review of the crash data, a total of 3 crashes were documented within the study limits during the three-year period with all three crashes in 2015. All three crashes resulted in property damage only. The calculated confidence levels for the three-year study period did not identify the study location as a high crash location. Based on FDOT's 2013-2015 High Crash Lists for spots and segments, the study location is not considered a high crash location.

The three leading crash types at the study location were Rear-End, Angle, and Fixed Object crash with 1 crash (33%) each. No Expected Values Analysis was performed since these values are not available for roadway segments; the study location was treated as a roadway segment for crash analysis purposes. The leading contributing causes for all crashes included Careless or Negligent Manner, Ran Off Roadway, and Improper Turn with 33% each.

There was 1 dark/dawn/dusk crashes (33%) reported which is higher than the 2013-2015 Districtwide average for all roadways of 29%. There were no crashes that occurred under wet/slippery pavement conditions.

Based on the collision diagram developed for the crash type(s) of interest, the following are the major findings:

- There was 1 other angle crash that occurred at the study location in a similar manner as the subject crash; due to the low crash frequency no crash pattern was identified.

 OFFICE REVIEW OF FIELD CONDITIONS

Based on a review of Google Earth aeriels/streetviews and 2016 FDOT Traffic Information, SR 5/US 1 is a two-lane urban other principal arterial (1 lane in each direction) divided by a combination of a painted median/left-turn lanes. The posted speed limit along SR 5 is 45 MPH. There is streetlighting on the west side of SR 5 (approximately 350 feet spacing). The eastbound and westbound approaches at the study intersection are controlled by a stop sign. There is a frontage road running parallel to SR 5 on its east side. There seems to be adequate visibility for westbound motorists to oncoming northbound traffic on SR 5 approaching the study intersection. The Google aerial image is dated December 30, 2017, and shows the pavement markings to be in fair condition.

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> No Curb/Gutter | <input type="checkbox"/> Crosswalk Markings
(High Emphasis) | <input type="checkbox"/> Traffic Signal Structure |
| <input checked="" type="checkbox"/> Streetlights (west
side of road) | <input checked="" type="checkbox"/> Sidewalk | <input type="checkbox"/> Backplates |
| <input checked="" type="checkbox"/> Traffic Signs (fair
condition) | <input type="checkbox"/> Bus Stops | <input type="checkbox"/> Internally Illuminated
Streetsigns |
| <input type="checkbox"/> Pavement
Deterioration | <input checked="" type="checkbox"/> Bicycle Lane | <input type="checkbox"/> Pedestrian Signals |

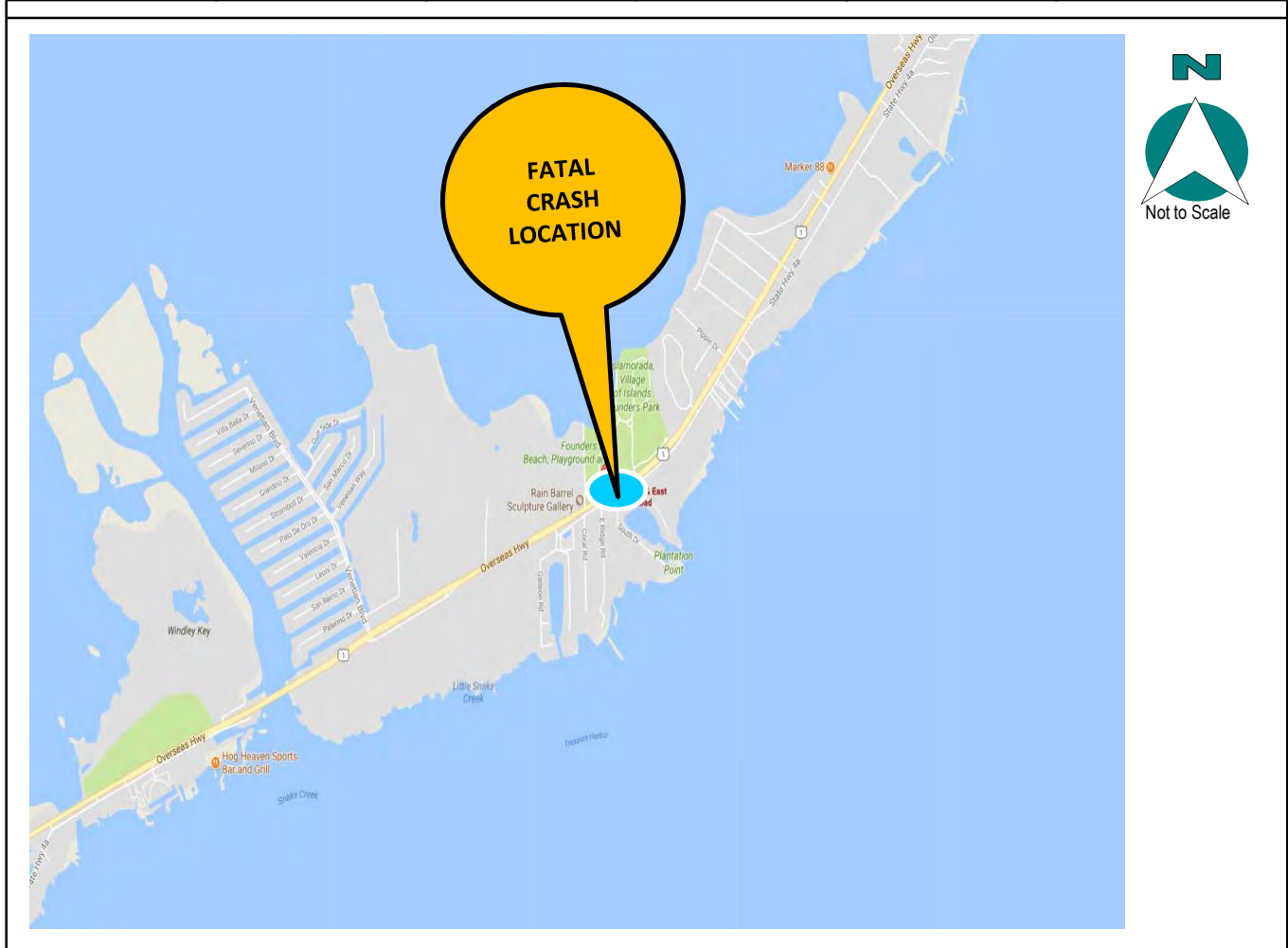
Attachments

- Location Map
- Straight Line Diagram
- Streetview Images
- Collision Diagram
- Crash Input Sheet
- Crash Summary Table
- Contributing Causes Summary Table
- Crash Summaries by Year
- Histogram
- Subject Fatal Crash Report
- CARS Output

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

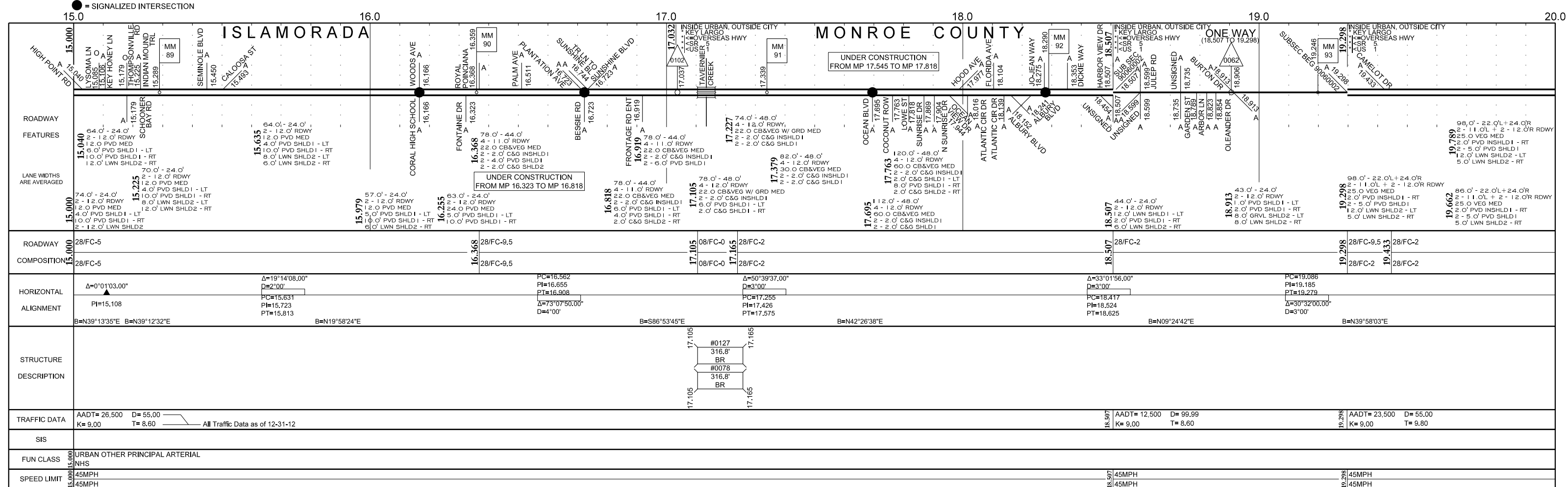
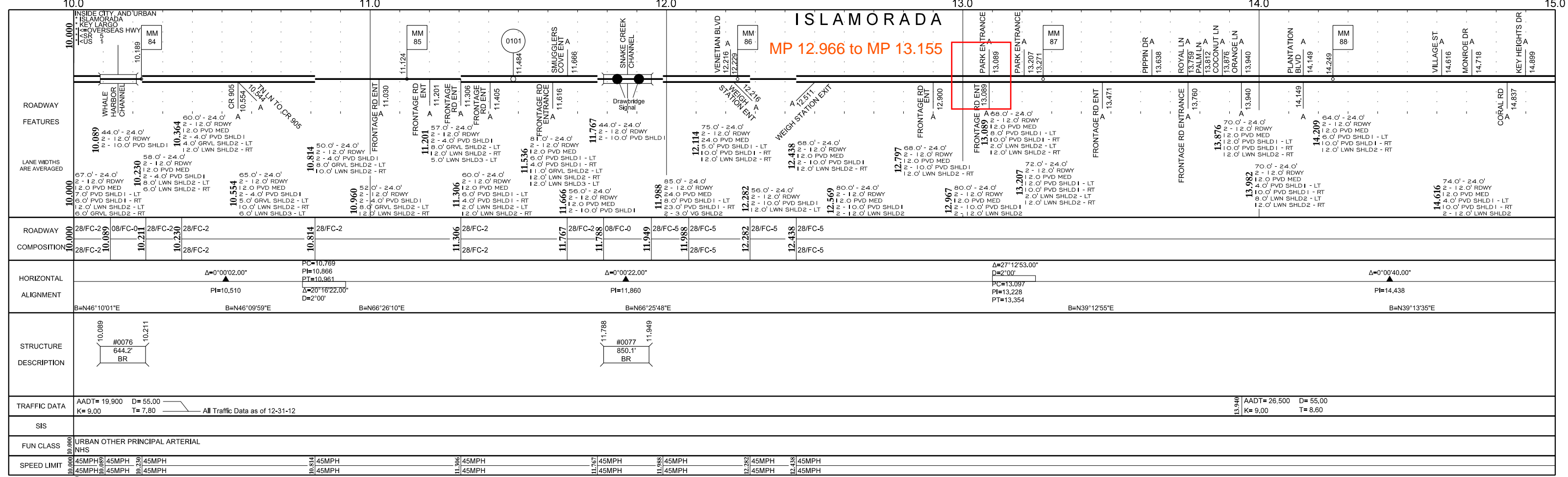
LOCATION MAP

LOCATION ID	SR 5 / US 1 AT EAST RIDGE RD, MM 86.8				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.966	END MILEPOST	13.155	PREPARED BY	CHOICE



CRASH SUMMARY (3 YEAR TOTALS)

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
3	0	0	3	1	0



US-1/Overseas Hwy (Islamorada/Monroe County)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

STREETVIEW IMAGES

LOCATION ID	SR 5 / US 1 AT EAST RIDGE RD, MM 86.8				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.966	END MILEPOST	13.155	PREPARED BY	CHOICE



a)- Looking north along northbound SR 5 approximately 150 feet south of fatal crash location (Image date: July 2015).



b)- Looking south along southbound SR 5 approximately 150 feet north of fatal crash location (Image date: July 2015).

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

STREETVIEW IMAGES

LOCATION ID	SR 5 / US 1 AT FRONT RD/PARK ENT, MM 86.8				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.966	END MILEPOST	13.155	PREPARED BY	CHOICE



c)- Looking west along westbound approach of the study intersection (Image date: March 2015)

COLLISION DIAGRAM

LOCATION ID	SR 5 / US 1 AT EAST RIDGE RD, MM 86.8				
COUNTY	Miami-Dade	SECTION	90060000		
BEGIN MILEPOST	12.966	END MILEPOST	13.155	PREPARED BY	CHOICE

Note: 1)- Based on the subject fatal crash type, only angle crashes were plotted in the collision diagram. In addition, all fatal crashes are presented, regardless of their crash type. 2)- The police reports for all crashes plotted were reviewed and any miscoded data was corrected accordingly.



PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
3	0	0	3	1	0

COLLISION DIAGRAM ONLY (3 YEAR TOTALS); DOES NOT INCLUDE FATAL IN 2016

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
1	0	0	1	0	0

LEGEND

Fatal Crash No. XX	Crash No. XX	Angle			
2013 Crash 	2014 Crash 	2015 Crash 			
Night Crash	Daylight Crash	Wk Zone Rel.			
Subject Fatal Crash 					

LOCATION INFORMATION CONFIDENCE LEVEL COMPUTATIONS

Location:	SR 5 / US 1 AT EAST RIDGE RD, MM 86.8	
State Section:	90060000	County: Monroe
State Road:	5	District: 6
Roadway Limits:	North and South of Intersection, Approx. 1,000 ft	
Engineer:	CHOICE	
Area Type:	Urban	
Spot/Segment:	Segment	
Spot Type:	4-5 Lanes 2wy Div Pavd	
Begin Milepost:	12.966	
End Milepost:	13.155	
Begin Year:	2013	
End Year:	2015	
Number of Years:	3	

CRASH STATISTICS

Year	2013	2014	2015
Number of Crashes	0	0	3
Average Daily Traffic (ADT)	#DIV/0!	#DIV/0!	27,500
Actual Crash Rate (ACR)	#DIV/0!	#DIV/0!	1.581
District 6 Average Crash Rate (A)	9.876	12.006	7.714
Average Vehicle Exposure (M)	#DIV/0!	#DIV/0!	1.897
Critical Crash Rate (CCR)	#DIV/0!	#DIV/0!	14.087
Safety Ratio	#DIV/0!	#DIV/0!	0.112
Statistical Significance	-	-	-2.911
Confidence Level			50.00%

ADT – Average Daily Traffic

ACR – Actual Crash Rate = No. of crashes in a year / Average Vehicle Exposure (M)

M – Average Vehicle Exposure (million vehicles or million vehicles miles) = [(ADT * 365 * L) / 1,000,000]

L = Length of the Segment for Segment Analysis, 1 for Spot Analysis

A – Average Crash Rate

CCR – Critical Crash Rate = $A + K * (\text{SQRT}[A/M]) - (1/[2 * M])$

(Ref: FDOT Highway Safety Improvement Program Guidelines)

K = 3.291 for Urban, 1.960 for Suburban, 1.645 for Rural

K = 3.291

Safety Ratio = ACR/CCR

Level of statistical significance = $(\text{ACR} - A + (1/2M))/\text{SQRT}(A/M)$

Confidence Level = Percent probability that the crash rate is abnormally high for the location under study, using the district-wide average as a basis. CL Threshold = 99.95%



FDOT DISTRICT 6 EXPECTED VALUES ANALYSIS

SR 5 / US 1 AT EAST RIDGE RD, MM 86.8 Segment/Spot with No Expected Values Available		Number of Crashes			3 Year Total Crashes	Mean Crashes Per Year	%	Expected Annual Crash Value		Abnormal 90th Percentile	Abnormal 95th Percentile
		Year						Abnormally High Crashes per year			
		2013	2014	2015				90th percentile	95th percentile		
CRASH TYPE	Rear End	0	0	1	1	0.33	33.3%	0.00	0.00		
	Head On	0	0	0	0	0.00	0.0%	0.00	0.00		
	Angle	0	0	1	1	0.33	33.3%	0.00	0.00		
	Left Turn	0	0	0	0	0.00	0.0%	0.00	0.00		
	Right Turn	0	0	0	0	0.00	0.0%	0.00	0.00		
	Sideswipe	0	0	0	0	0.00	0.0%	0.00	0.00		
	Backed Into	0	0	0	0	0.00	0.0%	0.00	0.00		
	Coll. w/ Parked Car	0	0	0	0	0.00	0.0%	0.00	0.00		
	Coll. w/ Pedestrian	0	0	0	0	0.00	0.0%	0.00	0.00		
	Coll. w/ Bicycle	0	0	0	0	0.00	0.0%	0.00	0.00		
	Fixed Object	0	0	1	1	0.33	33.3%	0.00	0.00		
	Ran Off Road	0	0	0	0	0.00	0.0%	0.00	0.00		
	Overtaken	0	0	0	0	0.00	0.0%	0.00	0.00		
	Other	0	0	0	0	0.00	0.0%	0.00	0.00		
	Total Crashes	0	0	3	3	1.00	100.0%	0.00	0.00		
SEVERITY	PDO Crashes	0	0	3	3	1.00	100.0%	0.00	0.00		
	Fatal Crashes	0	0	0	0	0.00	0.0%	0.00	0.00		
	Injury Crashes	0	0	0	0	0.00	0.0%	0.00	0.00		
LIGHTING CONDITIONS	Daylight	0	0	2	2	0.67	66.7%	0.00	0.00		
	Dusk	0	0	0	0	0.00	0.0%	0.00	0.00		
	Dawn	0	0	0	0	0.00	0.0%	0.00	0.00		
	Dark	0	0	1	1	0.33	33.3%	0.00	0.00		
	Unknown	0	0	0	0	0.00	0.0%	0.00	0.00		
SURFACE CONDITIONS	Dry	0	0	3	3	1.00	100.0%	0.00	0.00		
	Wet	0	0	0	0	0.00	0.0%	0.00	0.00		
	Others	0	0	0	0	0.00	0.0%	0.00	0.00		
MONTH OF YEAR	January	0	0	2	2	0.67	66.7%	0.00	0.00		
	February	0	0	0	0	0.00	0.0%	0.00	0.00		
	March	0	0	0	0	0.00	0.0%	0.00	0.00		
	April	0	0	0	0	0.00	0.0%	0.00	0.00		
	May	0	0	0	0	0.00	0.0%	0.00	0.00		
	June	0	0	0	0	0.00	0.0%	0.00	0.00		
	July	0	0	0	0	0.00	0.0%	0.00	0.00		
	August	0	0	0	0	0.00	0.0%	0.00	0.00		
	September	0	0	1	1	0.33	33.3%	0.00	0.00		
	October	0	0	0	0	0.00	0.0%	0.00	0.00		
	November	0	0	0	0	0.00	0.0%	0.00	0.00		
	December	0	0	0	0	0.00	0.0%	0.00	0.00		
DAY OF WEEK	Sunday	0	0	0	0	0.00	0.0%	0.00	0.00		
	Monday	0	0	0	0	0.00	0.0%	0.00	0.00		
	Tuesday	0	0	0	0	0.00	0.0%	0.00	0.00		
	Wednesday	0	0	1	1	0.33	33.3%	0.00	0.00		
	Thursday	0	0	2	2	0.67	66.7%	0.00	0.00		
	Friday	0	0	0	0	0.00	0.0%	0.00	0.00		
	Saturday	0	0	0	0	0.00	0.0%	0.00	0.00		
HOUR OF DAY	00:00-06:00	0	0	0	0	0.00	0.0%	0.00	0.00		
	06:00-09:00	0	0	0	0	0.00	0.0%	0.00	0.00		
	09:00-11:00	0	0	0	0	0.00	0.0%	0.00	0.00		
	11:00-13:00	0	0	2	2	0.67	66.7%	0.00	0.00		
	13:00-15:00	0	0	0	0	0.00	0.0%	0.00	0.00		
	15:00-18:00	0	0	0	0	0.00	0.0%	0.00	0.00		
	18:00-24:00	0	0	1	1	0.33	33.3%	0.00	0.00		

CRASH STATISTICS

SR 5 / US 1 AT EAST RIDGE RD, MM 86.8		Number of Crashes			3 Year Total Crashes	Mean Crashes Per Year	%
		Year					
		2013	2014	2015			
CONTRIBUTING CAUSES (VEHICLE ONLY)	No Contributing Action	0	0	0	0	0	0.0%
	Careless or Negligent Manner	0	0	1	1	0	33.3%
	Failed to Yield Right-Of-Way	0	0	0	0	0	0.0%
	Improper Backing	0	0	0	0	0	0.0%
	Improper Turn	0	0	1	1	0	33.3%
	Followed too Closely	0	0	0	0	0	0.0%
	Ran Red Light	0	0	0	0	0	0.0%
	Drove too Fast for Conditions	0	0	0	0	0	0.0%
	Ran Stop Sign	0	0	0	0	0	0.0%
	Improper Passing	0	0	0	0	0	0.0%
	Exceed Posted Speed	0	0	0	0	0	0.0%
	Wrong Side or Wrong Way	0	0	0	0	0	0.0%
	Failed To Keep In Proper Lane	0	0	0	0	0	0.0%
	Ran Off Roadway	0	0	1	1	0	33.3%
	Disregarded Other Traffic Sign	0	0	0	0	0	0.0%
	Disregarded other Road Markings	0	0	0	0	0	0.0%
	Over-Correcting/Over-Steering	0	0	0	0	0	0.0%
	Swerved Or Avoided	0	0	0	0	0	0.0%
	Erratic, Reckless or Aggressive	0	0	0	0	0	0.0%
Other Contributing Action	0	0	0	0	0	0.0%	

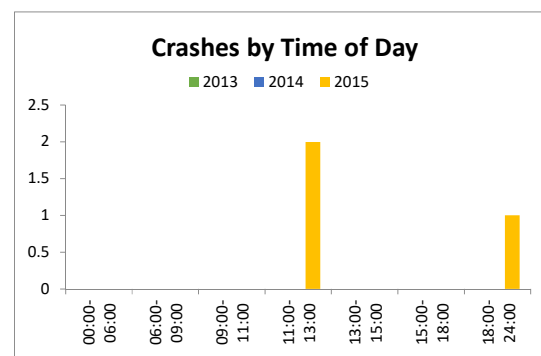
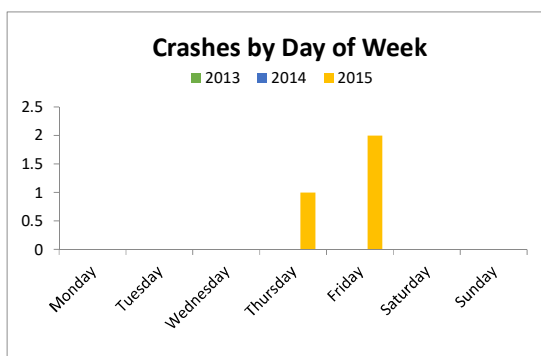
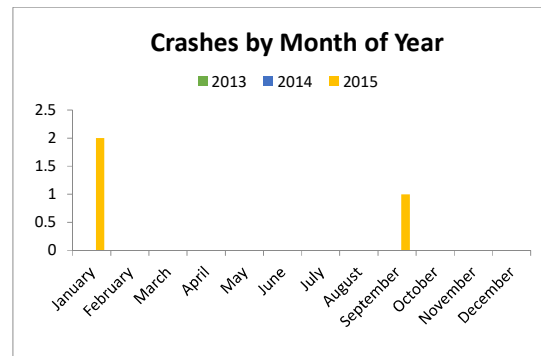
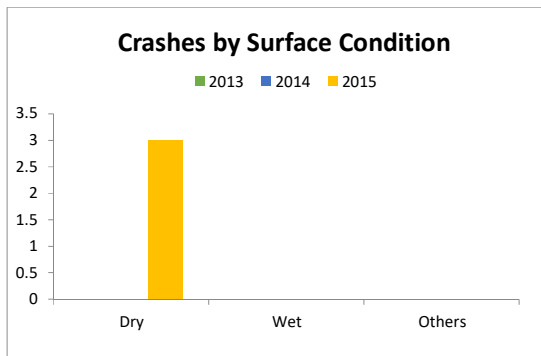
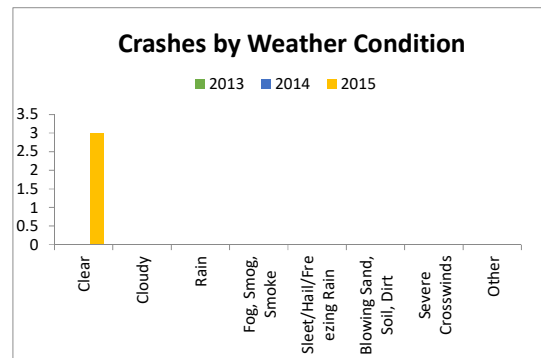
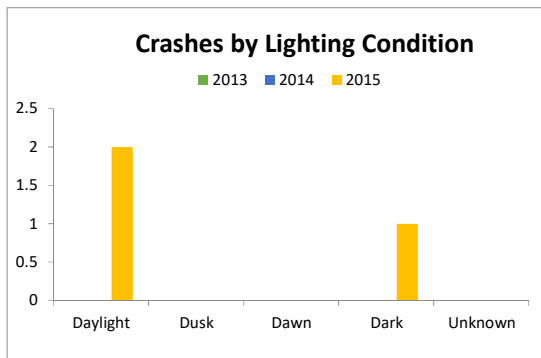
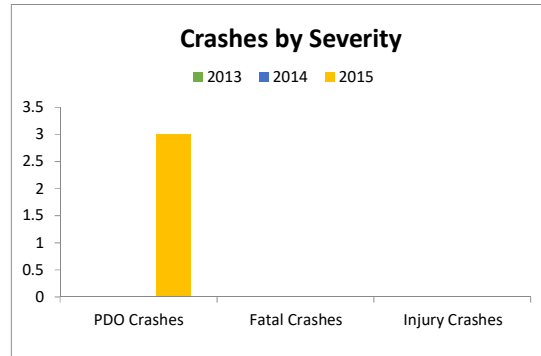
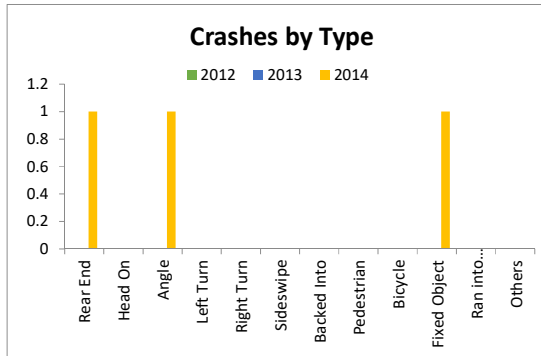
State of Florida Department of Transportation CRASH SUMMARY																
SECTION:		90060000										STATE ROUTE: 5				
ROADWAY LIMITS:		North and South of Intersection, Approx. 1,000 ft						M.P. 12.966		TO 13.155		ENGINEER: CHOICE				
STUDY PERIOD:		FROM 1/ 2015					TO 12/ 2015					COUNTY: Monroe				
Crash Number	No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
837991470	1	12.995	01/15/15	Thu	1220	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
827193610	2	13.089	01/02/15	Fri	1215	Angle			0	0	1	Day	Dry	Improper Turn		
848956870	3	13.146	09/11/15	Fri	2320	Tree (Standing)			0	0	1	Night	Dry	Ran Off Roadway		
	Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
	3	0	0	3	1	0	1	0	0	0	0	0	0	1	0	0
	Percent	0.00%	0.00%	100.00%	33.33%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	0.00%
	Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/ Aggress	Ran off Road	DUI	Wrong Way
	Total	2	1	0	3	1	0	1	0	0	0	0	0	1	0	0
	Percent	66.67%	33.33%	0.00%	100.00%	33.33%	0.00%	33.33%	0.00%	0.00%	0.00%	0.00%	0.00%	33.33%	0.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 27,500									SEGMENT CRASH RATE: 1.581 CRASHES PER MILLION VEHICLE MILES							

Note: No crashes for years 2013 and 2014.



CRASH HISTOGRAMS

SR 5 / US 1 AT EAST RIDGE RD, MM 86.8



FLORIDA TRAFFIC CRASH REPORT

LONG FORM SHORT FORM UPDATE

**HIGHWAY SAFETY & MOTOR VEHICLES,
TRAFFIC CRASH RECORDS
NEIL KIRKMAN BUILDING, TALLAHASSEE, FL 32399-0537**

(Electronic Version)

Date of Crash 14/Oct/2016 12:17 PM	Time of Crash 14/Oct/2016 12:17 PM	Date of Report 07/Jun/2017 08:57 AM	Invest. Agency Report Number FHPE16OFF063266	HSMV Crash Report Number 85314007
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CRASH IDENTIFIERS

County Code 38	City Code 30	County of Crash MONROE	Place or City of Crash ISLAMORADA	Within City Limits Yes	Time Reported 14/Oct/2016 12:27 PM	Time Dispatched 14/Oct/2016 12:28 PM
Time on Scene 14/Oct/2016 12:33 PM	Time Cleared Scene 14/Oct/2016 02:31 PM	Completed Yes	Reason (if Investigation NOT Completed)			Notified By Law Enforcement

ROADWAY INFORMATION

Crash Occured On Street, Road, Highway US-1 (SR-5) NB MM87			At Street Address#	At Latitude 24.9604	and Longitude -80.567980000000006	
At Feet	Or Miles	Direction	From Intersection With Street, Road, Highway COUNTY ROAD 905			Or From Milepost #
Road System Identifier 2 U.S.		Type Of Shoulder 1 Paved	Type Of Intersection 2 Four-Way Intersection			

CRASH INFORMATION (Check if Pictures Taken)

Light Condition 1 Daylight	Weather Condition 1 Clear	Roadway Surface Condition 1 Dry	School Bus Related 1 No	Manner Of Collision 3 Angle		
First Harmful Event Type	First Harmful Event 14	First Harmful Event Location 1 On Roadway	Within Interchange No	First Harmful Event Relation to Junction 1 Non-Junction		
Contributing Circumstances: Road 1 None		Contributing Circumstances: Road		Contributing Circumstances: Road		
Contributing Circumstances: Environment 1 None		Contributing Circumstances: Environment		Contributing Circumstances: Environment		
Work Zone Related 1 No	Crash In Work Zone	Type Of Work Zone	Workers In Work Zone	Law Enforcement In Work Zone		

VEHICLE (Check if Commercial)

Vehicle 1	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number GSUC18	State FL	Reg. Expires 18/Jan/2017	Permanent Reg. No	VIN JNKCV54E95M421831		
Year 2005	Make INFI	Model G35	Style 2D	Color SIL	Extent of Damage Disabling	Est. Damage 10000	Towed Due To Damage Yes	Vehicle Removed By GUYS TOWING	Rotation Rotation
Insurance Company MGA INSURANCE COMPANY				Insurance Policy Number 12MGEP0202284					
Name of Vehicle Owner (Check Box If Business) AVILIO AGUIRRE PROENZA			Current Address (Number and Street) 17355 NW 18TH AVE			City and State MIAMI GARDENS FL		Zip Code 33056-4938	
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles
Vehicle Traveling: West	Direction	On Street, Road, Highway COUNTY ROAD 905				At Est. Speed 20	Posted Speed 30	Total Lanes 2	
CMV Configuration	Cargo Body Type		Area of Initial Impact			Most Damaged Area			
Comm GVWR/GCWR	Trailer Type (trailer one)		Trailer Type (trailer two)						
Haz. Mat. Release	Haz Mat. Placard	Number	Class						
Motor Carrier Name			US DOT Number						
Motor Carrier Address			City and State			Zip Code		Phone Number	
Comm/Non-Commercial	Vehicle Body Type 1 Passenger Car	Vehicle Defects (one) 1 None		Vehicle Defects (two)		Emergency Vehicle Use 1 No	Special Function of MV 1 No Special Function		
Vehicle Maneuver Action 3 Turning Left	Trafficway 1 Two-Way, Not Divided	Roadway Grade 1 Level	Roadway Alignment 1 Straight	Most Harmful Event 2 Collision with Non-Fixed Object		Most Harmful Event Detail 14 Motor Vehicle in Transport			
Traffic Control Device For This Vehicle 6 Stop Sign	First (1) Sequence of Events 2 Collision with Non-Fixed Object		Second (2) Sequence of Events		Third (3) Sequence of Events		Fourth (4) Sequence of Events		

VEHICLE (Check if Commercial)

Vehicle 2	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number N4182V	State FL	Reg. Expires 31/Dec/2016	Permanent Reg. No	VIN 1HTMMAAP75H678120		
Year 2005	Make INTL	Model 4300 DT466	Style TK	Color WHI	Extent of Damage Functional	Est. Damage 2000	Towed Due To Damage Yes	Vehicle Removed By GUYS TOWING	Rotation Rotation
Insurance Company SENTINEL INS CO				Insurance Policy Number 21 UEN QY88651					
Name of Vehicle Owner (Check Box If Business) JEFF GAUTIER LANDSCAPING INC			Current Address (Number and Street) 92329 OVERSEAS HIGHWAY			City and State TAVERNIER FL		Zip Code 33070-1426	
Trailer One:	License Number PTL16	State FL	Reg. Expires 06/30/2013 00:00	Permanent Reg. No	VIN 1VR2161VXB1002743	Year 2011	Make VERM	Length 10	Axles 1
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles
Vehicle Traveling: North	Direction	On Street, Road, Highway US-1 (SR-5) NB MM87				At Est. Speed 45	Posted Speed 45	Total Lanes 3	
CMV Configuration	Cargo Body Type 15		Area of Initial Impact			Most Damaged Area			
Comm GVWR/GCWR 3 More than 26,000 lbs (11,793 kg)	Trailer Type (trailer one) Other, Explain in Narrative		Trailer Type (trailer two)						
Haz. Mat. Release 1	Haz Mat. Placard 1	Number	Class						
Motor Carrier Name PLANTATION TREE & LANDSCAPE			US DOT Number 1193354						
Motor Carrier Address 92329 OVERSEAS HIGHWAY			City and State TAVERNIER FL			Zip Code 33070		Phone Number	

14/Oct/2016 12:17 PM 07/Jun/2017 08:57 AM FHPE16OFF063266 85314007

Comm/Non-Commercial 4	Vehicle Body Type 19 Other Light Trucks (10,000 lbs (4,536 kg) or less)	Vehicle Defects (one) 1 None	Vehicle Defects (two)	Emergency Vehicle Use 1 No	Special Function of MV 1 No Special Function
Vehicle Maneuver Action 1 Straight Ahead	Trafficway 2 Two-Way, Not Divided, with a Continuous Left Turn Lane	Roadway Grade 1 Level	Roadway Alignment 1 Straight	Most Harmful Event 2 Collision with Non-Fixed Object	Most Harmful Event Detail 14 Motor Vehicle in Transport
Traffic Control Device For This Vehicle 1 No Controls	First (1) Sequence of Events 2 Collision with Non-Fixed Object 14 Motor Vehicle in Transport	Second (2) Sequence of Events	Third (3) Sequence of Events	Fourth (4) Sequence of Events	

PERSON RECORD

Person# 2	Description 1 Driver	Vehicle # 1	Name AVILIO AGUIRRE PROENZA	Date of Birth 18/Jan/1964	Sex 1 Male	Phone Number	Re-Exam No	
Address 17355 NW 18TH AVE		City MIAMI GARDENS	State FL	Zip Code 33056				
Driver License Number A261000640180	State FL	Expires 09/Jun/2017	DL Type 5 E/Operator	Req. End. 2 No	Injury Severity 5 Fatal (within 30 days)	Ejection 1 Not Ejected		
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 3 Deployed-Front	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 1 Left	Seating Location Row 1 Front	Seating Location Other		
Drivers Actions at Time of Crash (first) 3 Failed to Yield Right of Way		Drivers Actions at Time of Crash (second)		Driver Distracted By 1 Not Distracted		Vision Obstruction 1 Vision Not Obscured		
Drivers Actions at Time of Crash (third)		Drivers Actions at Time of Crash (fourth)		Drivers Condition at Time of Crash 1 Apparently Normal				
Suspected Alcohol Use 1 No	Alcohol Tested 1 Test Not Given	Alcohol Test Type	Alcohol Test Result	BAC	Suspected Drug Use 1 No	Drug Tested 1 Test Not Given	Drug Test Type	Drug Test Result
Source of Transport to Medical Facility 77 Other, Explain in Narrative		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To MEDICAL EXAMINERS OFFICE			

PERSON RECORD

Person# 4	Description 3 Passenger	Vehicle # 1	Name DANISH AVILIO AGUIRRE GARCIA	Date of Birth 08/Jul/1985	Sex 1 Male	Injury Severity 4 Incapacitating	Ejection 1 Not Ejected
Address 17355 NW 18TH AVE		City MIAMI GARDENS	State FL	Zip Code 33056			
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 3 Deployed-Front	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 2	Seating Location Other	
Source of Transport to Medical Facility 2 EMS		EMS Agency Name or ID MONROE COUNTY FIRE		EMS Run Number LADDER 20	Medical Facility Transported To RYDER TRUAMA		

PERSON RECORD

Person# 3	Description 3 Passenger	Vehicle # 1	Name GLADYS PEREZ	Date of Birth 12/Jul/1964	Sex 2 Female	Injury Severity 5 Fatal (within 30 days)	Ejection 1 Not Ejected
Address 1101 NE 80TH ST APT 304		City MIAMI	State FL	Zip Code 33138			
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 3 Deployed-Front	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 1	Seating Location Other	
Source of Transport to Medical Facility 77 Other, Explain in Narrative		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To MEDICAL EXAMINERS OFFICE		

PERSON RECORD

Person# 1	Description 1 Driver	Vehicle # 2	Name YAIMEL HERNANDEZ MASQUIEL	Date of Birth 04/Sep/1981	Sex 1 Male	Phone Number	Re-Exam No	
Address 172 BUTTONWOOD AVE		City KEY LARGO	State FL	Zip Code 33037				
Driver License Number H65960813240	State FL	Expires 04/Sep/2020	DL Type 5 E/Operator	Req. End. 2 No	Injury Severity 1 None	Ejection 1 Not Ejected		
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 2 Not Deployed	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 1 Left	Seating Location Row 1 Front	Seating Location Other		
Drivers Actions at Time of Crash (first) 1 No Contributing Action		Drivers Actions at Time of Crash (second)		Driver Distracted By 1 Not Distracted		Vision Obstruction 1 Vision Not Obscured		
Drivers Actions at Time of Crash (third)		Drivers Actions at Time of Crash (fourth)		Drivers Condition at Time of Crash 1 Apparently Normal				
Suspected Alcohol Use 1 No	Alcohol Tested 3 Test Given	Alcohol Test Type 1 Blood	Alcohol Test Result 2 Completed	BAC 0.000	Suspected Drug Use 1 No	Drug Tested 3 Test Given	Drug Test Type 1 Blood	Drug Test Result 2 Negative
Source of Transport to Medical Facility 1 Not Transported		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To			

PERSON RECORD

Person# 5	Description 3 Passenger	Vehicle # 2	Name MILTON JESUS ZELAYA RAMIREZ	Date of Birth 11/May/1989	Sex 1 Male	Injury Severity 1 None	Ejection 1 Not Ejected
Address 210 BURTON DR		City TAVERNIER	State FL	Zip Code 33070			
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 2 Not Deployed	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 1	Seating Location Other	
Source of Transport to Medical Facility 1 Not Transported		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To		

WITNESSES

Name OTTO JAVIER RAMOS CRUZ	Address 1409 PLANTATION CIR APT 408	City PLANT CITY	State FL	Zip Code 33566
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WITNESSES

Name CELIMAR RAMOS LOZADA	Address 19 SOMBRERO BLVD	City MARATHON	State FL	Zip Code 33050
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VIOLATIONS

Person# 1	Name YAIMEL HERNANDEZ MASQUIEL	Florida Statute Number 322.54 (1)	Charge NO/IMPROPER DRIVER LICENSE (DRIVING OUTSIDE OF CLASSIFICATIO	Citation A6A63CE
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14/Oct/2016 12:17 PM	07/Jun/2017 08:57 AM	FHPE16OFF063266	85314007
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Person#	Name	Florida Statute Number	Charge	Citation
1	YAIMEL HERNANDEZ MASQUIEL	316.215	DEFECTIVE LIGHTS/BRAKES/TIRES/ STEERING/DEFECTIVE OR NO MUFFL	A6A63DE

NARRATIVE

14/Oct/2016 12:17 PM	07/Jun/2017 08:57 AM	FHPE16OFF063266	85314007
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ID Number	Rank	Name	Troop / Post	Officer Agency	Phone Number	Date Created
3858	TROOPER	VILLANUEVA, MAURICIOE		FLORIDA HIGHWAY PATROL	305-470-2500	Oct 14, 2016

V01 was traveling west on County Road 905. V02 was traveling northbound on US-1 (SR-5). V02 had a wood chipper attached in the back. V01 attempted to cross US-1 but failed to yield right of way to oncoming traffic. V01 was then struck by V02 on the left side with the front of V02. Upon my arrival V01 was at final rest facing west in the northbound lane. V02 was at final rest facing north on the southbound shoulder.

Fatal: Avilio Aguirre Proenza Date of birth 01/18/1964 was pronounced deceased at 12:47pm by Paramedic Fire fighter Randall Lebron on scene. Notification of KIN made to Maria Rabassa, Mr. Aguirre Proenza sister on 10/14/2016 at 07:18pm. Notification made Trooper A. Deleon (3922) of the Florida Highway Patrol.

Fatal: Gladys Perez Date of birth 07/12/1964 was pronounced deceased at 12:47pm by Paramedic Fire fighter Ryan Kidd on scene. Notification of KIN made to Marlene Perez, Ms. Perez sister on 10/14/2016 at 09:20pm. Notification made Trooper A. Deleon (3922) of the Florida Highway Patrol.

Traffic Homicide Investigation Conducted by Corporal Cliff Fisher (955).

Photos were taken by Sargeant Pedro Reinoso (324).

Traffic Homicide Case Number is FHP 716-38-019.

ID Number	Rank	Name	Troop / Post	Officer Agency	Phone Number	Date Created
2559	CORPORAL	C. F. FISHER	E	FLORIDA HIGHWAY PATROL	305-470-2500	Nov 30, 2016

This Traffic Homicide Report is open and is Pending T.H.I. investigation.

ID Number	Rank	Name	Troop / Post	Officer Agency	Phone Number	Date Created
2559	CORPORAL	C. F. FISHER	E	FLORIDA HIGHWAY PATROL	305-470-2500	Dec 07, 2016

Doctor Thomas Beaver, Monroe County Medical Examiner, performed an autopsy on Mr. Avilio Aguirre Proenza and Ms. Gladys Perez; at the Office of the Medical Examiner located at 56639 Overseas Highway, Marathon, Florida 33050.

THE CAUSE OF DEATH: Pending at this time. A toxicological exam was conducted during normal autopsy procedures and a comprehensive drug screen are pending at this time. This report will be updated when the results are obtained. After reviewing all physical evidence there were non-criminal violations found, V-1 driver, Mr. Avilio Aguirre Proenza was in violation of Florida Statute 316.122 (1) (Vehicle turning left) which reads in part as follows: "The driver of a vehicle intending to turn left within an intersection or into an alley, private road, or driveway shall yield the right-of-way to any vehicle approaching from the opposite direction, or vehicles lawfully passing on the left of the turning vehicle, which is within the intersection or so close thereto as to constitute an immediate hazard."

After reviewing all physical evidence there were criminal violations found for V-2 driver, Mr. Yaimel Hernandez Masquiel was in violation of Florida Statute 322.54 (4)(a)

Classification.-

- (1) Except as provided in s. 322.53, effective April 1, 1992, a person may not drive any motor vehicle not authorized by the classification of his or her driver's license.
- (2) The department shall issue, pursuant to the requirements of this chapter, drivers' licenses in accordance with the following classifications:
 - (a) Any person who drives a motor vehicle combination having a gross vehicle weight rating of 26,001 pounds or more must possess a valid Class A driver's license, provided the gross vehicle weight rating of the vehicle being towed is more than 10,000 pounds. Any person who possesses a valid Class A driver's license may, subject to the appropriate restrictions and endorsements, drive any class of motor vehicle within this state.
 - 4)(a) Except as provided in paragraph (b), any person who operates a commercial motor vehicle and who does not possess a valid commercial driver's license authorizing such operation is guilty of a misdemeanor of the first degree, punishable as provided in s. 775.082 or s. 775.083.

After reviewing post-crash inspection of V-2, there were non-criminal violations found, V-2 driver, Mr. Yaimel Hernandez Masquiel was in violation of Florida Statute

316.215 Scope and effect of regulations.-

- (1) It is a violation of this chapter for any person to drive or move, or for the owner to cause or knowingly permit to be driven or moved, on any highway any vehicle, or combination of vehicles, which is in such unsafe condition as to endanger any person, which does not contain those parts or is not at all times equipped with such lamps and other equipment in proper condition and adjustment as required in this chapter, or which is equipped in any manner in violation of this chapter, or for any person to do any act forbidden, or fail to perform any act required, under this chapter.

By being in violation of the aforementioned Florida Statutes, Mr. Avilio Aguirre Proenza, ultimately caused this particular crash that resulted in the death of Ms. Gladys Perez and himself.

CASE CLOSING STATUS

Case Closed by Citations/Summons Issued:

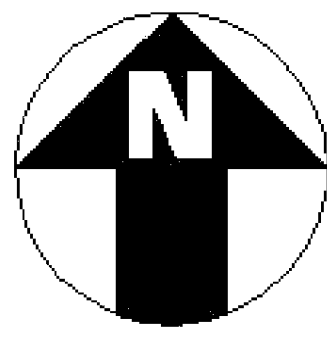
14/Oct/2016 12:17 PM	07/Jun/2017 08:57 AM	FHPE16OFF063266	85314007
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REPORTING OFFICER

ID/Badge # 2559	Rank and Name CORPORAL C. F. FISHER	Department FLORIDA HIGHWAY PATROL	Type of Department FHP
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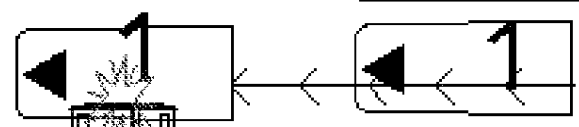
14/Oct/2016 12:17 PM	07/Jun/2017 08:57 AM	FHPE16OFF063266	85314007
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A. B. C.



NOT TO SCALE

A. US-1 (SR-5) SOUTH
B. CONTINUOUS TURN
C. US-1 (SR-5) NORTH



COUNTY ROAD 905

14/Oct/2016 12:17 PM	07/Jun/2017 08:57 AM	FHPE16OFF063266	85314007
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          CCCCCCCCCC      AAAAAAAAAA      RRRRRRRRRR
        CCCCCCCCCC      AAAAAAAAAAAA      RRRRRRRRRRRR
       CCC             AAA      AAA      RRR      RRR
      CCC             AAA      AAA      RRR      RRR
     CCC             AAAAAAAAAA      RRRRRRRRRRRR
    CCC             AAAAAAAAAAAA      RRRRRRRRRRRRRR
   CCC             AAA      AAA      RRR      RRR
  CCC             AAA      AAA      RRR      RRR
 CCCCCCCCCC      AAA      AAA      RRR      RRRR
CCCCCCCCCCCC      AAA      AAA      RRR      RRRRRR
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C R A S H R E P O R T I N G S Y S T E M

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```
I/O NAME: ..... CARI122
PROGRAM ID: ..... CARPJ122
REPORT NUMBER: ..... 01
RUN CLASS: ..... A
MESSAGE CLASS: ..... Q
PRINTER DEST: ..... LOCAL
# COPIES: ..... 01
ACCOUNT #: ..... 5565945
SUBMIT W/HOLD? ..... N
USERID: ..... KNCHOEL
DETAIL SORT ORDER: ..... 1 - SORT BY ROADWAY, MILE POINT
PRINT SEGMENTS? ..... Y
PRINT INTERSECTIONS? ..... N
SUMMARY FORMAT: ..... 2 - TOP LINE ALL BREAKS
OVERRIDE VALUES:
MAX # OF BREAKS: ..... 06
CRASH RATE CATEGORY: ...
AVERAGE DAILY TRAFFIC:..
# OF LEGS: .....
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REPORT...CARPJ122-01
DATE...10/09/2017
TIME...17:34:25

FLORIDA - DEPARTMENT OF TRANSPORTATION
C A R - CRASH ANALYSIS REPORTING SYSTEM
CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 1
USERID: KNCHOEL
I/O.... CARO213

COMMENT:

1 - SORT BY ROADWAY, MILE POINT

FROM: 01/01/2013 TO 12/31/2015 RAMP INCL
FROM CO/SEC/SUB: 90 060 000 MP: 012.966 INFL INCL
TO CO/SEC/SUB: 90 060 000 MP: 013.155 CR/OS INCL

C	ROADWYID	M	N	S	ADT	Y	M	D	H	CRCC	A	H	MO	L	W	R	R	DL	R	A	V	V	VF	VM	VA	V	V	V	VN	VN	N	V	#	#	#						
R	N	C	S	S	I	EN	TR	VAR	E	O	A	O	RALA	L	AE	AF	IC	EC	D	OC	OO	O	C	1	1	1U	1A	1C	1A	2	2N	2N	2M	2M	M	2N					
A	U	O	E	E	L	AO	AO	EIA	A	N	Y	U	ATAT	C	RV	N	GO	AO	AO	TC	A	C		N	N	T	G		M	M					M	V	K	I			
S	M	U	C	SC	E	RD	TA	RLF	R	T		R	SESE		ME	NC	HN	TN	S	DN	A	D		D	B	SC	E	DI	DE	D	B	F	MP	AA	A	D	E	I	N		
H	B	N	T	UT	P	EE	ED	AYF		H		H	SG	I	FN	EO	TD	HD	U	D	ST		L	I	OT	P	U	RO	R	I	OD	UL	NR	CC	C	RA	H	L	J		
E	T	I	BI	O	S			GI					O	N	UT	RL	IT	ET	R	T	II	S	N	R	DY	E	V	IN	I	R	DE	NO	VI	TT	T	AG	C	L	U		
R	Y	O	O	S	T			EC					R	V	L	L	NN	RN	F	N	TO	D		YP	C	E	V	V	/S	CC	RO	1N	N	GE	L	E	R				
		N	N	T									Y	1	GS	S		S	EN	#		E		R	R	1	R	C	/	/R	/1	2	E	S	D	D					

837991470	90060000	12.995	0368		5	027500	15	01	15	12	S-2DP	0	14	01	01	01	01	01	01	01	L	1	S	16	01	01	02	66	S	01	01	13	01			25	3	0	00		
827193610	90060000	13.089	0368		5	027500	15	01	02	12	S-2DP	0	14	77	01	01	01	01	01	02	L	1	E	00	01	03		00	S	01	01	13	01			74	2	0	00		
848956870	90060000	13.146	0368		5	027500	15	09	11	23	S-2DP	0	32	77	05	01	01	01	01	01	L	S	N	16	01	01	26	18											1	0	00

REPORT...CARPJ122-01
 DATE...10/09/2017
 TIME...17:34:25

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 2
 USERID: KNCHOEL
 I/O.... CARI122

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
 FROM: 01/01/2013 TO 12/31/2015
 FROM CO/SEC/SUB: 90 060 000
 TO CO/SEC/SUB: 90 060 000
 MP: 012.966
 MP: 013.155
 RAMPS INCL
 INFL INCL
 CR/OS INCL

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2015	0	0	0	0	0	3	3	0	0	0	0
TOTAL	0	0	0	0	0	3	3	0	0	0	0

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REPORT...CARPJ122-01
 DATE...10/09/2017
 TIME...17:34:25

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS
 *** REPORT TOTALS ***

PAGE NO: 3
 USERID: KNCHOEL
 I/O.... CARI122

CUMULATIVE TOTALS FOR ALL LOCATIONS SUBMITTED - OVERLAPPING OR INTERSECTING LOCATIONS MAY RESULT IN CRASHES COUNTED MORE THAN ONCE

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2015	0	0	0	0	0	3	3	0	0	0	0
TOTAL	0	0	0	0	0	3	3	0	0	0	0

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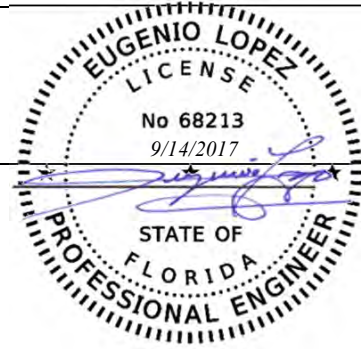
DISPOSITION OF FATAL CRASH

DATE RECEIVED	10/05/2016	DATE OF CRASH	01/02/2016	2016 - B10 No. 48	
SECTION	90060000	STATE ROAD	5	CRASH NUMBER	852404280
APPROX. MILEPOST	12.016	DATE INVESTIGATED	02/27/2016	DATE DISPOSED	

CRASH LOCATION DESCRIPTION **SR 5/US 1 at MM 85.8, 0.2 of a mile S of Venetian Boulevard**

INITIAL ACTION

- Obvious (crash description) roadway features not contributory
- Not part of significant increase in fatal crashes
- No action required



FIELD INVESTIGATED DATE _____ N/A _____

- Roadway feature not involved
- Minor corrections needed
 - Sent to Maintenance
 - Sent to Traffic Operations
 - Memo attached
- Crash Study initiated

Note: For this report, SR 5/US 1 is considered a north-south oriented roadway. South towards Key West and north towards Miami.

The following action is recommended:

Based on a review of the police report, the subject fatal crash was a Rear-End Collision that occurred on SR 5/US 1 at MM 85.8, approximately 1,060 feet south of Venetian Boulevard. The fatal crash occurred on Saturday, January 2, 2016, at 12:55 PM (daylight), under dry pavement and clear weather conditions. According to the police report, Vehicle 2 was traveling southbound on US 1 approaching the Snake Creek Bridge. Vehicle 1 was also traveling southbound on US 1 directly behind Vehicle 2. Vehicle 3 was traveling northbound on US 1 approaching the Snake Creek Bridge. Driver 2 stated that the traffic in front was reducing speed, so Driver 2 proceeded to reduce the vehicle speed. Driver 1 failed to reduce the vehicle speed and struck the left rear corner of Vehicle 2 with its front right corner. Vehicle 2 was still moving forward when impacted. Vehicle 1 continued traveling southbound and onto the northbound lane. Vehicle 1 and Vehicle 3 then struck each other in a head-on collision on top of the metal part of the drawbridge. Vehicle 1 and Vehicle 3 came to final rest at the point of impact still attached to each other. Vehicle 2 traveled a short distance and came to a controlled stop. Passenger 6 of Vehicle 1 died on the date of the crash. The police report indicated that Driver 1 was traveling at the 45 MPH posted speed limit and was not suspected to be under the influence of drugs and/or alcohol. Driver 1 was cited for careless driving. Driver 1 was from Tampa, Florida.

The crash data for the three most recent years (from January 2012 to December 2014) along SR 5/US 1 (90060000) from MP 11.915 to MP 12.116 was downloaded and summarized from FDOT's Crash Analysis Reporting System (CARS) on-line database. Based on a review of the crash data, a total of 12 crashes were documented within the study limits during the three-year period with 4 crashes in 2012, 5 crashes in 2013, and 3 crashes in 2014. There were 4 injury crashes (33%), 8 property damage only crashes (67%), and no fatal crashes. The calculated confidence levels for the three-year study period did not identify the study location as a high crash location for 2012 and 2014. Based on FDOT's 2012-2014 High Crash Lists for spots and segments, the study location is not considered a high crash location.

A collision diagram depicting the same and similar crash types to the subject fatal crash type is attached to this document. These crashes include rear-end collisions (10 crashes). All fatal crashes are also presented, if any. The following are the major findings: Ten of the 11 rear-end crashes, including the subject fatal crash occurred in the southbound direction near the bridge section. The crashes occurred as follows: 3 crashes between 7 AM and 10 AM, 1 crash at 12 PM, and 4 crashes between 3 PM and 5 PM.

Based on a review of Google Earth aerials/streetviews and 2016 FDOT Traffic Information, SR 5/US 1 is a undivided two lane urban principal arterial other (1 lane in each direction). US 1 has a 45 MPH posted speed limit. Within the study limits, US 1 is composed of the Snake Creek drawbridge. There are drawbridge signals and signs on both approaches of US 1 at the bridge. Per a review of streetview, the pavement markings within the bridge section are faded and worn-out. There is a merge condition in the southbound direction as approaching the bridge. Westbound motorists turning left from Venetian Boulevard (access to Truck Weight Station Facility) onto their own lane, must subsequently merge to the right before ~500 feet from the bridge.

Based on the information presented in this document, the following is recommended at the study location:

- Perform a daytime field review between 7 AM and 10 AM or 3 PM and 5 PM to assess the sight visibility to the traffic signal at the crest of the Snake Creek drawbridge and the probable causes for rear-end collisions along southbound US 1 approaching the traffic signal. In addition, evaluate the feasibility of installing a Signal Warning Sign supplemented with Prepare To Stop When Flashing plaque and 2 flashing beacons, as presented in Exhibit A. The sign assembly should be installed for southbound US 1 traffic at approximately 900 feet north of the Snake Creek drawbridge, behind the guardrail. The flashing beacons should be solar powered.
- Recap the stop bars on US 1 at the Snake Creek drawbridge signal.

Prepared By: Eugenio S. Lopez, P.E.	DATE:	9/14/2017
DISTRICT SAFETY ENGINEER (SIGNATURE)	DATE:	

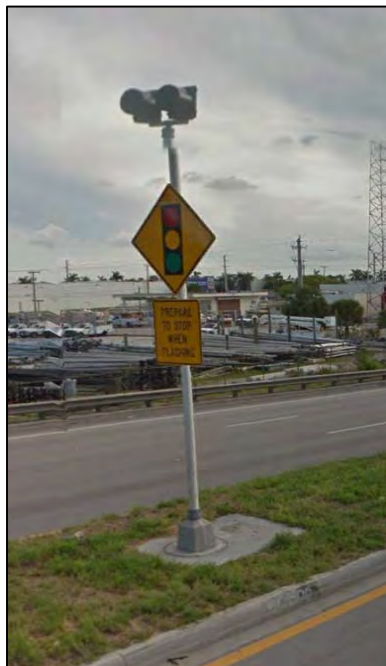
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

EXHIBIT A

LOCATION ID	SR 5/US 1 at MM 85.8, 0.2 of a mile S of Venetian Boulevard				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	11.915	END MILEPOST	12.116	PREPARED BY	CHOICE



a)- Looking south along southbound SR 5/US 1, approximately 900 ft north from center of bridge (Image date: July 2015).



Consider installing sign assembly behind guardrail. Beacons should begin flashing with drawbridge signal. Beacons should be solar powered, which is not shown in exhibit. The assembly shown is presented as a sample and is currently installed on westbound NW 36 St approaching NW 72 Ave.

DISPOSITION OF FATAL CRASH

DISTRICT SIX INITIAL REVIEW

- | | |
|--|-----|
| <input checked="" type="checkbox"/> Relevant Studies/CTPs | N/A |
| <input checked="" type="checkbox"/> Relevant Programmed Projects | N/A |

 CRASH NARRATIVE

Based on a review of the police report, the subject fatal crash was a Rear-End collision that occurred on SR 5/US 1 approximately 1,056 feet south of Venetian Blvd. The fatal crash occurred on Saturday, January 2, 2016, at 12:55 PM (Daylight), under dry pavement and clear weather conditions. According to the police report, Vehicle 2 was traveling southbound on US 1 approaching the Snake Creek Bridge. Vehicle 1 was also traveling southbound on US 1 directly behind Vehicle 2. Vehicle 3 was traveling northbound on US 1 approaching the Snake Creek Bridge. Driver 2 stated that the traffic in front was reducing speed, so the driver proceeded to reduce its speed. Vehicle 1 failed to reduce its speed and struck the left rear corner of Vehicle 2 with its front right corner. Vehicle 2 was still moving forward when impacted. Vehicle 1 continued traveling southbound and onto the northbound lane. Vehicle 1 and Vehicle 3 then struck each other in a head-on collision on top of the metal part of the draw bridge. Vehicle 1 and Vehicle 3 came to final rest at the point of impact still attached to each other. Vehicle 2 traveled a short distance and came to a controlled stop. Passenger 6 of Vehicle 1 died on the date of the crash. The police report indicated that Driver 1 was traveling at the 45 MPH posted speed limit and was not suspected to be under the influence of drugs and/or alcohol. Driver 1 was cited for careless driving. Driver 1 was from Tampa, Florida.

 CRASH DATA REVIEW (Crash Summary Sheets Attached)

The crash data for the three most recent years (from January 2012 to December 2014) along SR 5/US 1 (90060000) from MP 11.915 to MP 12.116 was downloaded and summarized from FDOT's Crash Analysis Reporting System (CARS) on-line database. Based on a review of the crash data, a total of 12 crashes were documented within the study limits during the three-year period with 4 crashes in 2012, 5 crashes in 2013, and 3 crashes in 2014. There were 4 injury crashes (33%), 8 property damage only crashes (67%), and no fatal crashes. The calculated confidence levels for the three-year study period did not identify the study location as a high crash location for 2012 and 2014. Based on FDOT's 2012-2014 High Crash Lists for spots and segments, the study location is not considered a high crash location.

The three leading crash types at the study location were Rear-End with 10 crashes (83%), and Head-On and Other with 1 crash (8%) each. No Expected Value Analysis was performed, since there are no values available for roadway segments. The three leading contributing causes for all crashes included Careless or Negligent Manner with 83%, and Improper Passing and Failed to Keep in Proper Lane with 8% each.

There were 3 dark/dawn/dusk crashes (25%) reported which is lower than the 2012-2014 Districtwide average for all roadways of 29%. There was 1 crash (8%) reported that occurred under wet/slippery pavement roadway conditions which is lower than the 2012-2014 Districtwide average for all roadways of 16%.

A collision diagram depicting the same and similar crash types to the subject fatal crash type is attached to this document. These crashes include rear-end collisions (10 crashes). All fatal crashes are also presented, if any. The following are the major findings: Ten of the 11 rear-end crashes, including the subject fatal crash occurred in the southbound direction near the bridge section. The crashes occurred as follows: 3 crashes between 7 AM and 10 AM, 1 crash at 12 PM, and 4 crashes between 3 PM and 5 PM.

 OFFICE REVIEW OF FIELD CONDITIONS

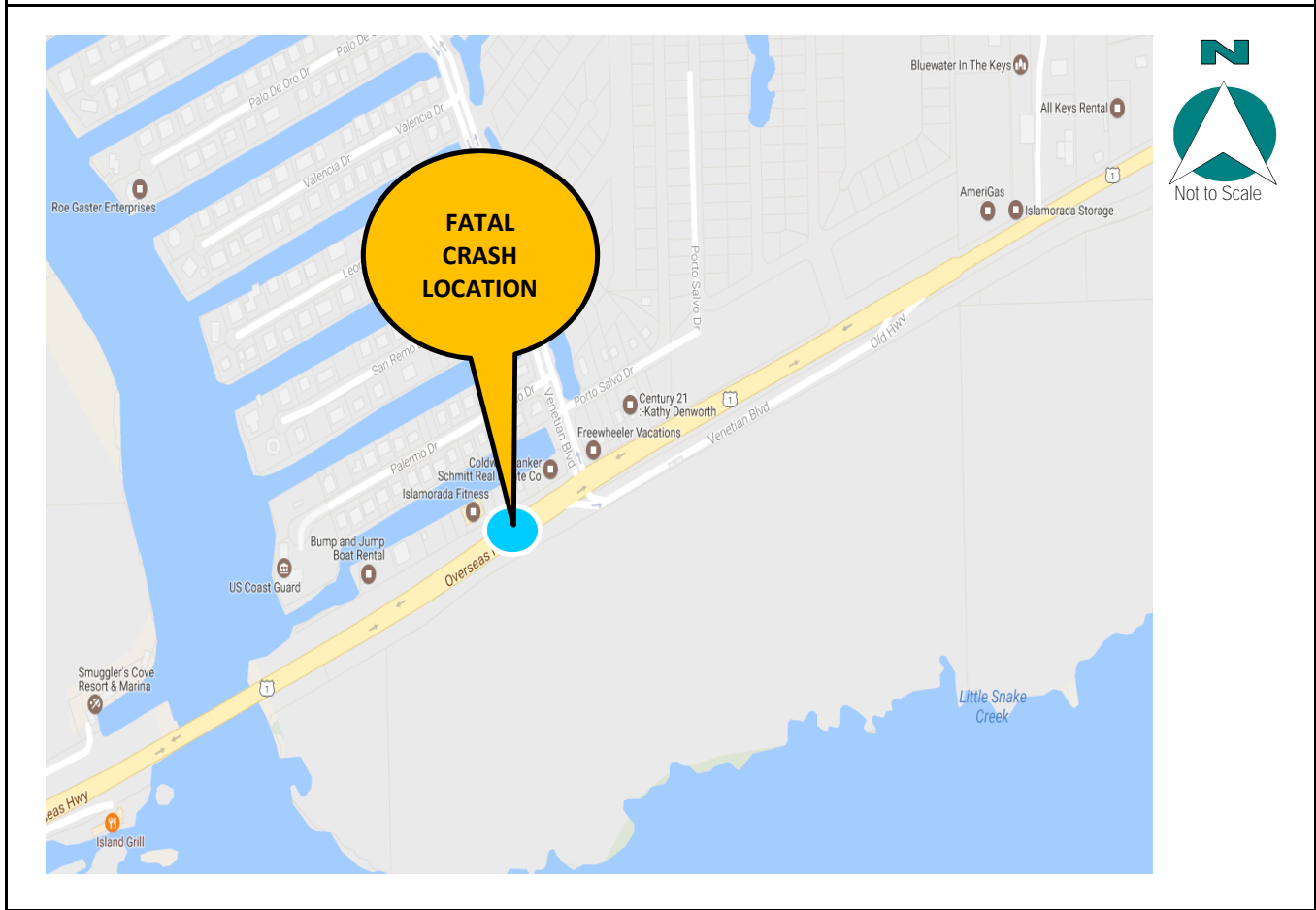
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- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> No Curb/Gutter | <input type="checkbox"/> Crosswalk Markings (___) | <input checked="" type="checkbox"/> Traffic Signal Structure (drawbridge, mast-arm) |
| <input checked="" type="checkbox"/> Streetlights (westside) | <input type="checkbox"/> Sidewalk (___) | <input type="checkbox"/> Backplates |
| <input checked="" type="checkbox"/> Traffic Signs (fair condition) | <input type="checkbox"/> Bus Stops | <input type="checkbox"/> Internally Illuminated Streetsigns |
| <input type="checkbox"/> Pavement Deterioration (___) | <input checked="" type="checkbox"/> Bicycle Lane (east and west sides of the road) | <input type="checkbox"/> Pedestrian Signals |

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

LOCATION MAP

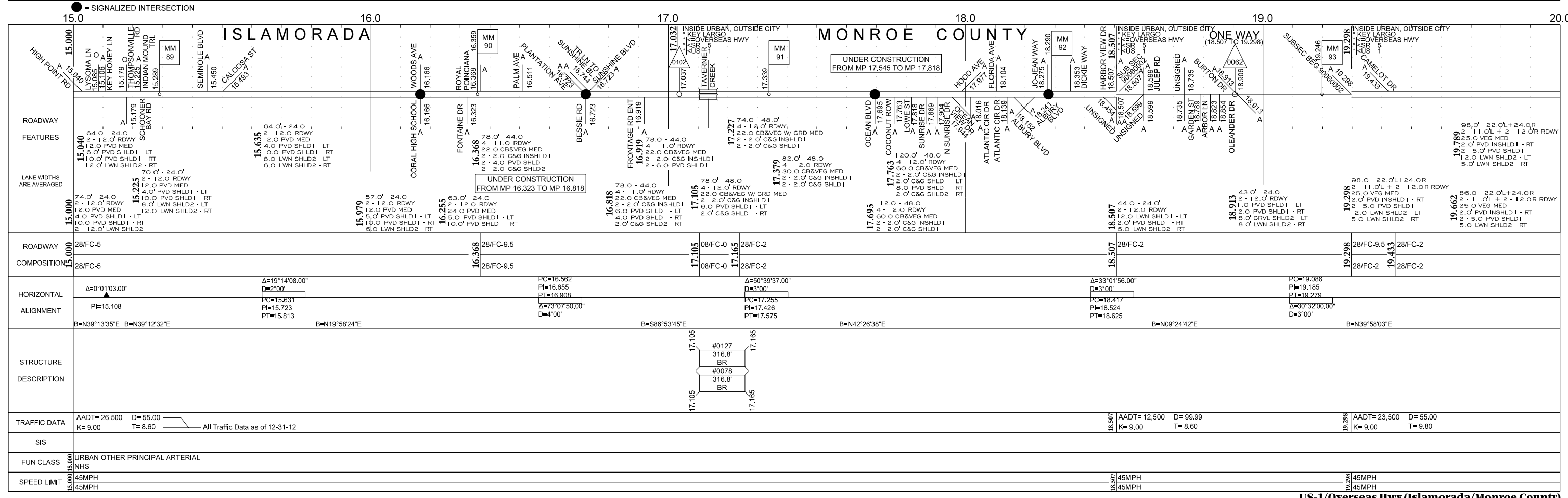
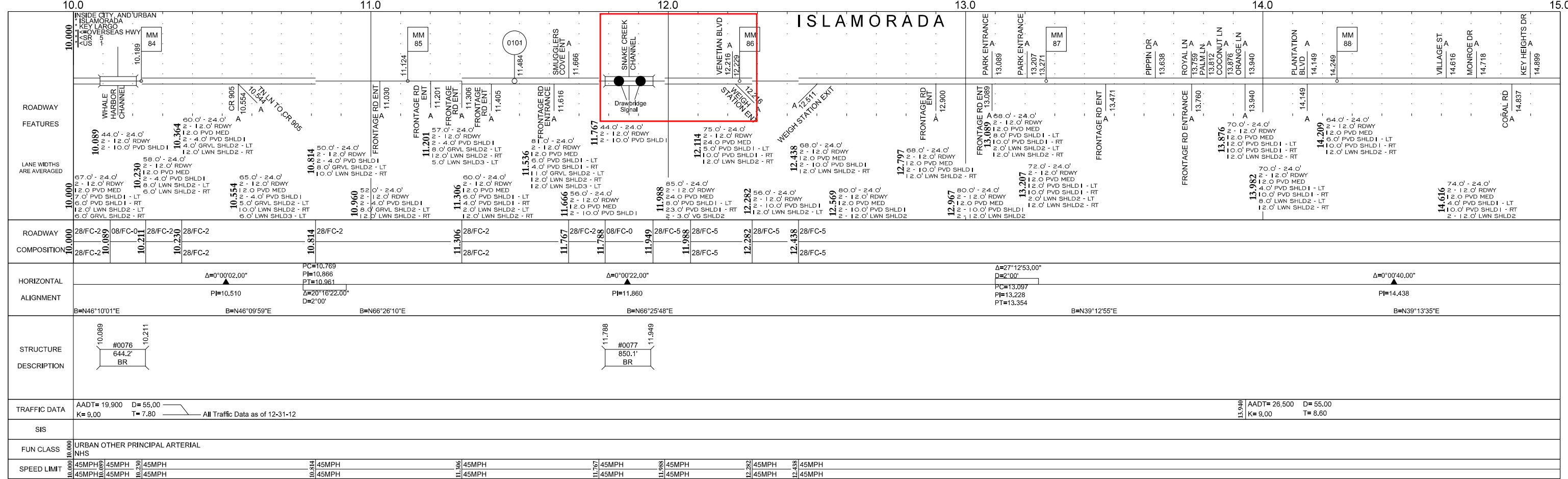
LOCATION ID	SR 5/US 1 at MM 85.8, 0.2 of a mile S of Venetian Boulevard				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	11.915	END MILEPOST	12.116	PREPARED BY	CHOICE



CRASH SUMMARY (3 YEAR TOTALS)

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
8	4	0	12	3	1

FLORIDA DEPARTMENT OF TRANSPORTATION STRAIGHT LINE DIAGRAM OF ROAD INVENTORY



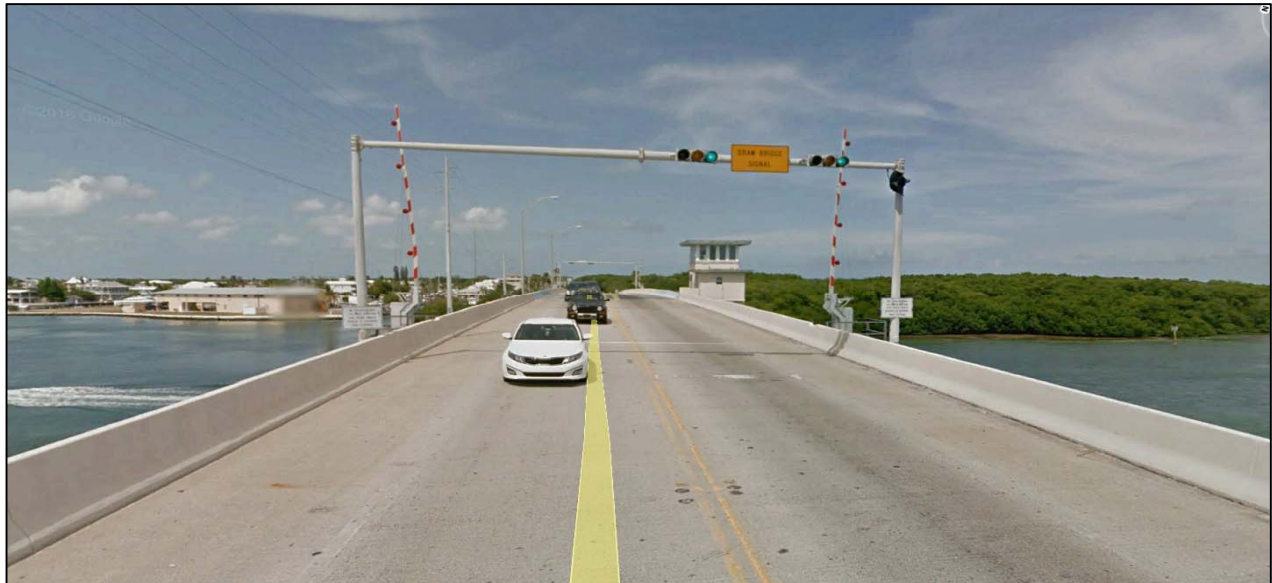
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

STREETVIEW IMAGES

LOCATION ID	SR 5/US 1 at MM 85.8, 0.2 of a mile S of Venetian Boulevard				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	11.915	END MILEPOST	12.116	PREPARED BY	CHOICE



b)- Looking south along southbound SR 5/US 1, approximate subject fatal crash location (Image date: July 2015).



c)- Looking north along northbound SR 5/US 1, approximately 200 ft south of subject fatal crash location (Image date: July 2015).

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

STREETVIEW IMAGES

LOCATION ID	SR 5/US 1 at MM 85.8, 0.2 of a mile S of Venetian Boulevard				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	11.915	END MILEPOST	12.116	PREPARED BY	CHOICE

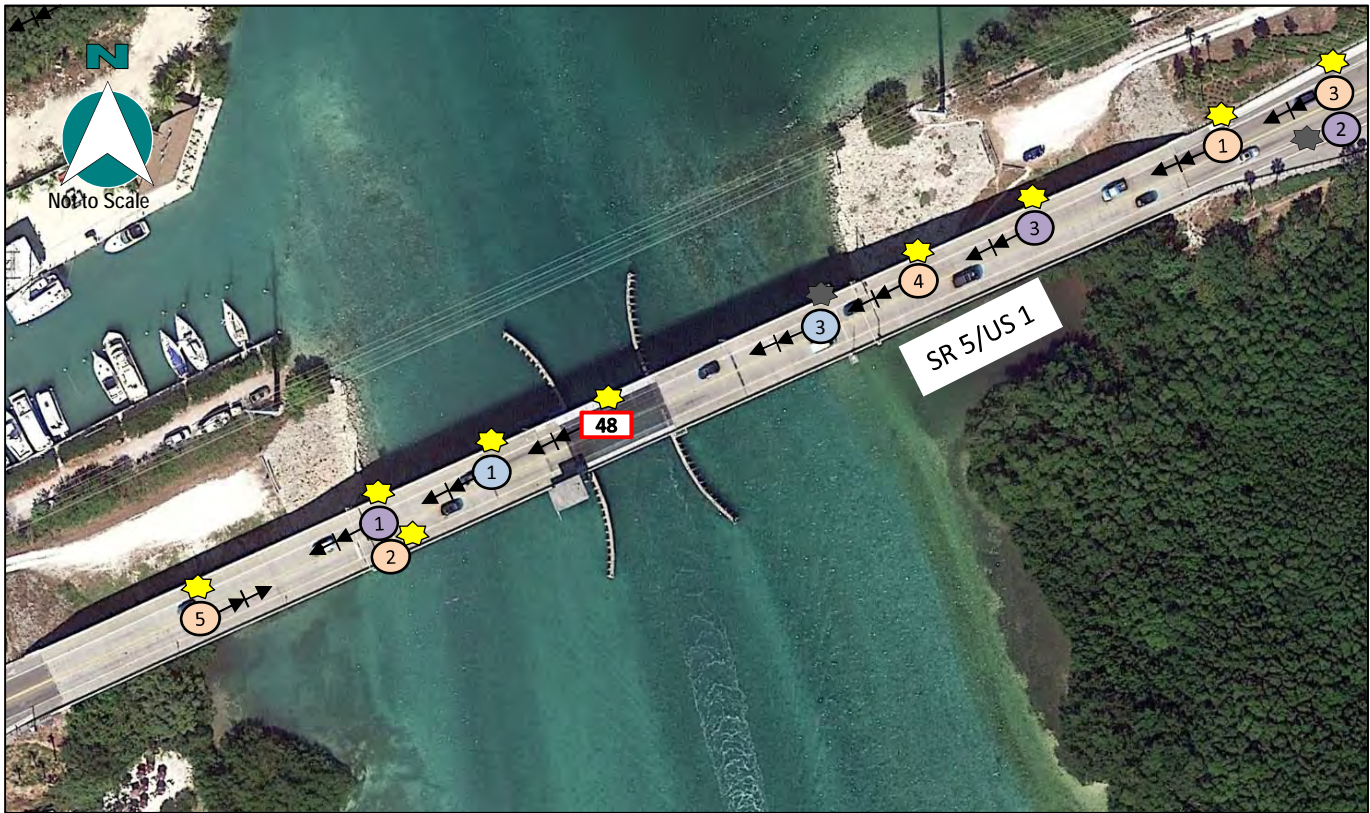


d)- Looking south along southbound SR 5/US 1, approximately 950 ft north from center of bridge
(Image date: July 2015).

COLLISION DIAGRAM

LOCATION ID	SR 5/US 1 at MM 85.8, 0.2 of a mile S of Venetian Boulevard				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	11.915	END MILEPOST	12.116	PREPARED BY	CHOICE

Note: 1)- Based on the subject fatal crash type, only rear-end crashes were plotted in the collision diagram. In addition, all fatal crashes are presented, regardless of their crash type. 2)- The police reports for all crashes plotted were reviewed and any miscoded data was corrected accordingly.



CRASH SUMMARY (3 YEAR TOTALS - ALL CRASHES); DOES NOT INCLUDE FATAL IN 2016

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
8	4	0	12	3	1

COLLISION DIAGRAM ONLY (3 YEAR TOTALS); DOES NOT INCLUDE FATAL IN 2016

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
6	4	0	10	2	1

LEGEND

Fatal Crash No. XX	Crash No. XX	Rear-End → →			
2012 Crash 	2013 Crash 	2014 Crash 			
Night Crash ★	Daylight Crash ★	Wk Zone Rel. ▲			
Subject Fatal Crash 					

LOCATION INFORMATION CONFIDENCE LEVEL COMPUTATIONS

Location:	SR 5/US 1		
State Section:	90060000	County: Monroe	
State Road:	5	District: 6	
Roadway Limits:	0.2 of a mile S of Venetian Blvd, MM 85.8		
Engineer:	CHOICE		
Area Type:	Urban		
Spot/Segment:	Segment		
Spot Type:	2-3 Lanes 2wy Undivided		
Begin Milepost:	11.915		
End Milepost:	12.116		
Begin Year:	2012		
End Year:	2014		
Number of Years:	3		

CRASH STATISTICS

Year	2012	2013	2014
Number of Crashes	4	5	3
Average Daily Traffic (ADT)	19,900	19,300	25,500
Actual Crash Rate (ACR)	2.740	3.531	1.604
District 6 Average Crash Rate (A)	8.264	8.721	5.539
Average Vehicle Exposure (M)	1.460	1.416	1.871
Critical Crash Rate (CCR)	15.751	16.535	10.935
Safety Ratio	0.174	0.214	0.147
Statistical Significance	-2.178	-1.949	-2.132
Confidence Level	1.4704%	2.5655%	1.6512%

ADT – Average Daily Traffic

ACR – Actual Crash Rate = No. of crashes in a year / Average Vehicle Exposure (M)

M – Average Vehicle Exposure (million vehicles or million vehicles miles) = $[(ADT * 365 * L) / 1,000,000]$

L = Length of the Segment for Segment Analysis, 1 for Spot Analysis

A – Average Crash Rate

CCR – Critical Crash Rate = $A + K * (\text{SQRT}[A/M]) - (1/[2 * M])$

(Ref: FDOT Highway Safety Improvement Program Guidelines)

K = 3.291 for Urban, 1.960 for Suburban, 1.645 for Rural

K = 3.291

Safety Ratio = ACR/CCR

Level of statistical significance = $(ACR - A + (1/2M))/\text{SQRT}(A/M)$

Confidence Level = Percent probability that the crash rate is abnormally high for the location under study,
using the district-wide average as a basis. CL Threshold = 99.95%

**FDOT DISTRICT 6
EXPECTED VALUES ANALYSIS**

SR 5/US 1 Segment/Spot with No Expected Values Available		Number of Crashes			3 Year Total Crashes	Mean Crashes Per Year	%	Expected Annual Crash Value		Abnormal 90th Percentile	Abnormal 95th Percentile
		Year						Abnormally High Crashes per year			
		2012	2013	2014				90th percentile	95th percentile		
CRASH TYPE	Rear End	2	5	3	10	3.33	83.3%	0.00	0.00		
	Head On	1	0	0	1	0.33	8.3%	0.00	0.00		
	Angle	0	0	0	0	0.00	0.0%	0.00	0.00		
	Left Turn	0	0	0	0	0.00	0.0%	0.00	0.00		
	Right Turn	0	0	0	0	0.00	0.0%	0.00	0.00		
	Sideswipe	0	0	0	0	0.00	0.0%	0.00	0.00		
	Backed Into	0	0	0	0	0.00	0.0%	0.00	0.00		
	Coll. w/ Parked Car	0	0	0	0	0.00	0.0%	0.00	0.00		
	Coll. w/ Pedestrian	0	0	0	0	0.00	0.0%	0.00	0.00		
	Coll. w/ Bicycle	0	0	0	0	0.00	0.0%	0.00	0.00		
	Fixed Object	0	0	0	0	0.00	0.0%	0.00	0.00		
	Ran Off Road	0	0	0	0	0.00	0.0%	0.00	0.00		
	Overturned	0	0	0	0	0.00	0.0%	0.00	0.00		
	Other	1	0	0	1	0.33	8.3%	0.00	0.00		
	Total Crashes	4	5	3	12	4.00	100.0%	0.00	0.00		
SEVERITY	PDO Crashes	3	3	2	8	2.67	66.7%	0.00	0.00		
	Fatal Crashes	0	0	0	0	0.00	0.0%	0.00	0.00		
	Injury Crashes	1	2	1	4	1.33	33.3%	0.00	0.00		
LIGHTING CONDITIONS	Daylight	2	5	2	9	3.00	75.0%	0.00	0.00		
	Dusk	0	0	0	0	0.00	0.0%	0.00	0.00		
	Dawn	0	0	0	0	0.00	0.0%	0.00	0.00		
	Dark	2	0	1	3	1.00	25.0%	0.00	0.00		
	Unknown	0	0	0	0	0.00	0.0%	0.00	0.00		
SURFACE CONDITIONS	Dry	4	5	2	11	3.67	91.7%	0.00	0.00		
	Wet	0	0	1	1	0.33	8.3%	0.00	0.00		
	Others	0	0	0	0	0.00	0.0%	0.00	0.00		
MONTH OF YEAR	January	1	0	1	2	0.67	16.7%	0.00	0.00		
	February	0	0	0	0	0.00	0.0%	0.00	0.00		
	March	0	2	0	2	0.67	16.7%	0.00	0.00		
	April	0	1	0	1	0.33	8.3%	0.00	0.00		
	May	0	0	0	0	0.00	0.0%	0.00	0.00		
	June	0	0	0	0	0.00	0.0%	0.00	0.00		
	July	0	0	0	0	0.00	0.0%	0.00	0.00		
	August	0	0	1	1	0.33	8.3%	0.00	0.00		
	September	0	1	0	1	0.33	8.3%	0.00	0.00		
	October	2	1	0	3	1.00	25.0%	0.00	0.00		
	November	1	0	1	2	0.67	16.7%	0.00	0.00		
	December	0	0	0	0	0.00	0.0%	0.00	0.00		
DAY OF WEEK	Sunday	1	0	2	3	1.00	25.0%	0.00	0.00		
	Monday	1	0	0	1	0.33	8.3%	0.00	0.00		
	Tuesday	0	0	0	0	0.00	0.0%	0.00	0.00		
	Wednesday	0	0	0	0	0.00	0.0%	0.00	0.00		
	Thursday	1	2	0	3	1.00	25.0%	0.00	0.00		
	Friday	0	2	1	3	1.00	25.0%	0.00	0.00		
	Saturday	1	1	0	2	0.67	16.7%	0.00	0.00		
HOUR OF DAY	00:00-06:00	1	0	0	1	0.33	8.3%	0.00	0.00		
	06:00-09:00	1	0	1	2	0.67	16.7%	0.00	0.00		
	09:00-11:00	0	1	0	1	0.33	8.3%	0.00	0.00		
	11:00-13:00	0	1	0	1	0.33	8.3%	0.00	0.00		
	13:00-15:00	1	3	0	4	1.33	33.3%	0.00	0.00		
	15:00-18:00	0	0	2	2	0.67	16.7%	0.00	0.00		
	18:00-24:00	1	0	0	1	0.33	8.3%	0.00	0.00		

**State of Florida Department of Transportation
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: 0.2 of a mile S of Venetian Blvd, MM 85.8 M.P. 11.915 TO 12.116 ENGINEER: CHOICE
STUDY PERIOD: FROM 1/ 2012 TO 12/ 2012 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	11.948	01/20/12	Fri	1450	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
2	12.016	10/28/12	Sun	0355	Head-On			0	1	0	Night	Dry	Improper Lane Change		
3	12.016	11/26/12	Mon	0800	Rear-End			0	0	1	Day	Dry	Improper Lane Change		
4	12.116	10/30/12	Tue	2104	Not Coded			0	0	1	Night	Dry	Improper Turn		
4	0	1	3	2	1	0	0	0	0	0	0	0	0	0	1
Percent	0.00%	25.00%	75.00%	50.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	25.00%
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way
Total	2	2	0	4	2	0	0	0	0	1	0	0	0	1	0
Percent	50.00%	50.00%	0.00%	100.00%	50.00%	0.00%	0.00%	0.00%	0.00%	25.00%	0.00%	0.00%	0.00%	25.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 19,900								SEGMENT CRASH RATE: 2.740 CRASHES PER MILLION VEHICLE MILES							

**State of Florida Department of Transportation
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: 0.2 of a mile S of Venetian Blvd, MM 85.8 M.P. 11.915 TO 12.116 ENGINEER: CHOICE
STUDY PERIOD: FROM 1/ 2013 TO 12/ 2013 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	11.966	04/26/13	Fri	1455	Rear-End			0	1	0	Day	Dry	Improper Lane Change		
2	11.966	10/12/13	Sat	1200	Rear-End			0	2	0	Day	Dry	Careless or Negligent Manner		
3	12.016	03/29/13	Fri	1005	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
4	12.016	03/31/13	Sun	1330	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
5	12.016	09/28/13	Sat	1340	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
5	0	2	3	5	0	0	0	0	0	0	0	0	0	0	0
Percent	0.00%	40.00%	60.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way
Total	5	0	0	5	5	0	0	0	0	0	0	0	0	0	0
Percent	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 19,300								SEGMENT CRASH RATE: 3.531 CRASHES PER MILLION VEHICLE MILES							

**State of Florida Department of Transportation
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: 0.2 of a mile S of Venetian Blvd, MM 85.8 M.P. 11.915 TO 12.116 ENGINEER: CHOICE
STUDY PERIOD: FROM 1/ 2014 TO 12/ 2014 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	11.916	01/06/14	Mon	0730	Rear-End			0	2	0	Day	Wet	Improper Lane Change		
2	12.066	11/24/14	Mon	1715	Rear-End			0	0	1	Night	Dry	Careless or Negligent Manner		
3	12.083	08/30/14	Sat	1627	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
3	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0
Percent	0.00%	33.33%	66.67%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way
Total	2	1	1	2	3	0	0	0	0	0	0	0	0	0	0
Percent	66.67%	33.33%	33.33%	66.67%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 25,500								SEGMENT CRASH RATE: 1.604 CRASHES PER MILLION VEHICLE MILES							

FLORIDA TRAFFIC CRASH REPORT

HIGHWAY SAFETY & MOTOR VEHICLES,
TRAFFIC CRASH RECORDS

LONG FORM SHORT FORM UPDATE

NEIL KIRKMAN BUILDING, TALLAHASSEE, FL 32399-0537

(Electronic Version)

Date of Crash 02/Jan/2016 12:55 PM	Time of Crash 02/Jan/2016 12:55 PM	Date of Report 27/Feb/2016 10:25 PM	Invest. Agency Report Number FHPE16OFF000233	HSMV Crash Report Number 85240428
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CRASH IDENTIFIERS

County Code 38	City Code 30	County of Crash MONROE	Place or City of Crash ISLAMORADA	Within City Limits Yes	Time Reported 02/Jan/2016 01:02 PM	Time Dispatched 02/Jan/2016 01:04 PM
Time on Scene 02/Jan/2016 01:27 PM	Time Cleared Scene 02/Jan/2016 03:13 PM	Completed Yes	Reason (if Investigation NOT Completed)			Notified By Law Enforcement

ROADWAY INFORMATION

Crash Occured On Street, Road, Highway US-1 (STATE ROAD 5)			At Street Address# 1	At Latitude 24.9521802552044	and Longitude -80.587701257318301	
At Feet	Or Miles .20	Direction South	From Intersection With Street, Road, Highway VENETIAN BLVD			Or From Milepost #
Road System Identifier 2 U.S.		Type Of Shoulder 1 Paved		Type Of Intersection 1 Not at Intersection		

CRASH INFORMATION (Check if Pictures Taken)

Light Condition 1 Daylight	Weather Condition 1 Clear	Roadway Surface Condition 1 Dry	School Bus Related 1 No	Manner Of Collision 2 Front to Front
First Harmful Event Type	First Harmful Event 14	First Harmful Event Location 1 On Roadway	Within Interchange No	First Harmful Event Relation to Junction 1 Non-Junction
Contributing Circumstances: Road 1 None		Contributing Circumstances: Road		Contributing Circumstances: Road
Contributing Circumstances: Environment 1 None		Contributing Circumstances: Environment		Contributing Circumstances: Environment
Work Zone Related 1 No	Crash In Work Zone	Type Of Work Zone	Workers In Work Zone	Law Enforcement In Work Zone

VEHICLE (Check if Commercial)

Vehicle 3	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number EDJR16	State FL	Reg. Expires 13/Oct/2016	Permanent Reg. No	VIN 1GNKRGED2BJ396164				
Year 2011	Make CHEV	Model TRAVERSE	Style UT	Color SIL	Extent of Damage Disabling	Est. Damage 10000	Towed Due To Damage No	Vehicle Removed By	Rotation		
Insurance Company GEICO				Insurance Policy Number 4146402542							
Name of Vehicle Owner (Check Box If Business) CHARLETTE MARIE GLASSBY WASHINGTON <input type="checkbox"/>			Current Address (Number and Street) 3817 AUSTRALIAN CT			City and State WEST PALM BEACH FL		Zip Code 33407-3911			
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles		
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles		
Vehicle Traveling:	Direction North	On Street, Road, Highway US-1 AT 85.8 MM				At Est. Speed 40	Posted Speed 45	Total Lanes 2			
CMV Configuration			Cargo Body Type			Area of Initial Impact			Most Damaged Area		
Comm GVWR/GCWR			Trailer Type (trailer one)			Trailer Type (trailer two)					
Haz. Mat. Release	Haz Mat. Placard	Number		Class							
Motor Carrier Name				US DOT Number							
Motor Carrier Address				City and State			Zip Code		Phone Number		
Comm/Non-Commercial	Vehicle Body Type 16 (Sport) Utility Vehicle	Vehicle Defects (one) 1 None		Vehicle Defects (two)		Emergency Vehicle Use 1 No		Special Function of MV 1 No Special Function			
Vehicle Maneuver Action 1 Straight Ahead	Trafficway 1 Two-Way, Not Divided	Roadway Grade 1 Level		Roadway Alignment 1 Straight		Most Harmful Event 2 Collision with Non-Fixed Object		Most Harmful Event Detail 14 Motor Vehicle in Transport			
Traffic Control Device For This Vehicle 1 No Controls	First (1) Sequence of Events 2 Collision with Non-Fixed Object		Second (2) Sequence of Events		Third (3) Sequence of Events		Fourth (4) Sequence of Events				
		14 Motor Vehicle in Transport									

VEHICLE (Check if Commercial)

Vehicle 1	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number 195KMX	State FL	Reg. Expires 11/Mar/2016	Permanent Reg. No	VIN YV1612FS3D1226734		
Year 2013	Make VOLV	Model S60	Style 4D	Color BLK	Extent of Damage Disabling	Est. Damage 15000	Towed Due To Damage Yes	Vehicle Removed By WHEATONS TOWING	Rotation Rotation
Insurance Company GEICO				Insurance Policy Number 0367951209					

Name of Vehicle Owner (Check Box If Business) <input type="checkbox"/>				Current Address (Number and Street)				City and State		Zip Code		
WILLIAM ROGER ANTONELLO				3140 SW 139TH TER				DAVIE FL		33330-0000		
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Vehicle Traveling:	Direction	On Street, Road, Highway					At Est. Speed	Posted Speed	Total Lanes			
	South	US-1 AT 85.8 MM					40	45	2			
CMV Configuration			Cargo Body Type			Area of Initial Impact			Most Damaged Area			
Comm GVWR/GCWR			Trailer Type (trailer one)		Trailer Type (trailer two)							
Haz. Mat. Release		Haz Mat. Placard		Number		Class		18. Undercarriage			18. Undercarriage	
								19. Overturn			19. Overturn	
								20. Windshield			20. Windshield	
								21. Trailer			21. Trailer	
Motor Carrier Name				US DOT Number								
Motor Carrier Address				City and State				Zip Code		Phone Number		
Comm/Non-Commercial	Vehicle Body Type		Vehicle Defects (one)		Vehicle Defects (two)		Emergency Vehicle Use		Special Function of MV			
	1 Passenger Car		1 None				1 No		1 No Special Function			
Vehicle Maneuver Action		Trafficway		Roadway Grade		Roadway Alignment		Most Harmful Event		Most Harmful Event Detail		
1 Straight Ahead		1 Two-Way, Not Divided		1 Level		1 Straight		2 Collision with Non-Fixed Object		14 Motor Vehicle in Transport		
Traffic Control Device For This Vehicle		First (1) Sequence of Events		Second (2) Sequence of Events		Third (3) Sequence of Events		Fourth (4) Sequence of Events				
1 No Controls		2 Collision with Non-Fixed Object		14 Motor Vehicle in Transport								

VEHICLE (Check if Commercial)

Vehicle	Motor Vehicle Type		Hit and Run	Veh License Number		State	Reg. Expires	Permanent Reg.	VIN			
2	1 Vehicle in Transport		1 No	783TAH		FL	17/Nov/2016	No	1FMZU63E55UB99967			
Year	Make	Model	Style	Color	Extent of Damage	Est. Damage	Towed Due To	Damage	Vehicle Removed By	Rotation		
2005	FORD	EXPLORER	UT	BLK	Functional	1500	Yes		WHEATONS TOWING	Rotation		
Insurance Company				Insurance Policy Number								
GEICO				4374193599								
Name of Vehicle Owner (Check Box If Business) <input type="checkbox"/>				Current Address (Number and Street)				City and State		Zip Code		
ROBERTA GIRARDELLI				1227 SW 3 AVE APT 410				MIAMI FL		33130-4271		
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Vehicle Traveling:	Direction	On Street, Road, Highway					At Est. Speed	Posted Speed	Total Lanes			
	South	US-1 AT 85.8 MM					25	45	2			
CMV Configuration			Cargo Body Type			Area of Initial Impact			Most Damaged Area			
Comm GVWR/GCWR			Trailer Type (trailer one)		Trailer Type (trailer two)							
Haz. Mat. Release		Haz Mat. Placard		Number		Class		18. Undercarriage			18. Undercarriage	
								19. Overturn			19. Overturn	
								20. Windshield			20. Windshield	
								21. Trailer			21. Trailer	
Motor Carrier Name				US DOT Number								
Motor Carrier Address				City and State				Zip Code		Phone Number		
Comm/Non-Commercial	Vehicle Body Type		Vehicle Defects (one)		Vehicle Defects (two)		Emergency Vehicle Use		Special Function of MV			
	16 (Sport) Utility Vehicle		1 None				1 No		1 No Special Function			
Vehicle Maneuver Action		Trafficway		Roadway Grade		Roadway Alignment		Most Harmful Event		Most Harmful Event Detail		
13 Stopped in Traffic		1 Two-Way, Not Divided		1 Level		1 Straight		2 Collision with Non-Fixed Object		14 Motor Vehicle in Transport		
Traffic Control Device For This Vehicle		First (1) Sequence of Events		Second (2) Sequence of Events		Third (3) Sequence of Events		Fourth (4) Sequence of Events				
1 No Controls		2 Collision with Non-Fixed Object		14 Motor Vehicle in Transport								

PERSON RECORD

Person#	Description	Vehicle #	Name			Date of Birth	Sex	Phone Number	Re-Exam
1	1 Driver	1	KRISTEN LEE ANTONELLO			03/Dec/1985	2 Female	9542958538	No
Address		City		State		Zip Code			
820 NORMANDY TRACE RD		TAMPA		FL		33602			
Driver License Number		State	Expires	DL Type	Req. End.	Injury Severity		Ejection	
A535512859430		FL	03/Dec/2019	5 E/Operator	3 No Req Endorsement	3 Non-incapacitating		1 Not Ejected	
Restraint System		Air Bag Deployed		Helmet Use		Eye Protection		Seating Location Seat	
3 Shoulder and Lap Belt Used		3 Deployed-Front				3 Not Applicable		1 Left	
								Seating Location Row	
								1 Front	
								Seating Location Other	

Drivers Actions at Time of Crash (first) 2 Operated MV in Careless or Negligent Manner				Drivers Actions at Time of Crash (second)				Driver Distracted By 1 Not Distracted		Vision Obstruction 1 Vision Not Obscured							
Drivers Actions at Time of Crash (third)				Drivers Actions at Time of Crash (fourth)				Drivers Condition at Time of Crash 1 Apparently Normal									
Suspected Alcohol Use 1 No		Alcohol Tested 3 Test Given		Alcohol Test Type 1 Blood		Alcohol Test Result 2 Completed		BAC 0.000		Suspected Drug Use 1 No		Drug Tested 3 Test Given		Drug Test Type 1 Blood		Drug Test Result 2 Negative	
Source of Transport to Medical Facility 2 EMS				EMS Agency Name or ID ISLAMORADA FIRE RESC				EMS Run Number ISLAMORADA				Medical Facility Transported To RYDER TRAUMA					

PERSON RECORD

Person# 4		Description 3 Passenger		Vehicle # 1		Name WILLIAM ROGER ANTONELLO				Date of Birth 11/Mar/1957		Sex 1 Male		Injury Severity 3 Non-incapacitating		Ejection 1 Not Ejected	
Address 3140 SW 139TH TER						City DAVIE						State FL		Zip Code 33330			
Restraint System 3 Shoulder and Lap Belt Used		Air Bag Deployed 3 Deployed-Front		Helmet Use		Eye Protection 3 Not Applicable		Seating Location Seat 3		Seating Location Row 1		Seating Location Other					
Source of Transport to Medical Facility 2 EMS				EMS Agency Name or ID ISLAMORADA FIRE RESC				EMS Run Number ISLAMORADA				Medical Facility Transported To KENDALL REGIONAL					

PERSON RECORD

Person# 5		Description 3 Passenger		Vehicle # 1		Name BRENT W ANTONELLO				Date of Birth 25/Aug/1989		Sex 1 Male		Injury Severity 3 Non-incapacitating		Ejection 1 Not Ejected	
Address 1301 N HOLLYWOOD WAY						City BURBANK						State CA		Zip Code 91505			
Restraint System 3 Shoulder and Lap Belt Used		Air Bag Deployed 4 Deployed-Side		Helmet Use		Eye Protection 3 Not Applicable		Seating Location Seat 1		Seating Location Row 2		Seating Location Other					
Source of Transport to Medical Facility 2 EMS				EMS Agency Name or ID ISLAMORADA FIRE RESC				EMS Run Number ISLAMORADA				Medical Facility Transported To MARINERS HOSPITAL					

PERSON RECORD

Person# 6		Description 3 Passenger		Vehicle # 1		Name DEBRA CAMPBELL ANTONELLO				Date of Birth 31/Jul/1957		Sex 2 Female		Injury Severity 5 Fatal (within 30 days)		Ejection 1 Not Ejected	
Address 3140 SW 139TH TER						City DAVIE						State FL		Zip Code 33330			
Restraint System 2 None Used -Motor Vehicle Occupant		Air Bag Deployed 4 Deployed-Side		Helmet Use		Eye Protection 3 Not Applicable		Seating Location Seat 3		Seating Location Row 2		Seating Location Other					
Source of Transport to Medical Facility 2 EMS				EMS Agency Name or ID ISLAMORADA FIRE RESC				EMS Run Number ISLAMORADA				Medical Facility Transported To MARINERS HOSPITAL					

PERSON RECORD

Person# 2		Description 1 Driver		Vehicle # 2		Name ROBERTA GIRARDELLI				Date of Birth 17/Nov/1974		Sex 2 Female		Phone Number		Re-Exam No	
Address 1227 SW 3 AVE APT 410				City MIAMI				State FL				Zip Code 33130					
Driver License Number G663720749170		State FL		Expires 17/Nov/2021		DL Type 5 E/Operator		Req. End. 3 No Req Endorsement		Injury Severity 1 None		Ejection 1 Not Ejected					
Restraint System 3 Shoulder and Lap Belt Used		Air Bag Deployed 2 Not Deployed		Helmet Use		Eye Protection 3 Not Applicable		Seating Location Seat 1 Left		Seating Location Row 1 Front		Seating Location Other					
Drivers Actions at Time of Crash (first) 1 No Contributing Action				Drivers Actions at Time of Crash (second)				Driver Distracted By 1 Not Distracted				Vision Obstruction 1 Vision Not Obscured					
Drivers Actions at Time of Crash (third)				Drivers Actions at Time of Crash (fourth)				Drivers Condition at Time of Crash 1 Apparently Normal									
Suspected Alcohol Use 1 No		Alcohol Tested 1 Test Not Given		Alcohol Test Type		Alcohol Test Result		BAC		Suspected Drug Use 1 No		Drug Tested 1 Test Not Given		Drug Test Type		Drug Test Result	
Source of Transport to Medical Facility 1 Not Transported				EMS Agency Name or ID				EMS Run Number				Medical Facility Transported To					

PERSON RECORD

Person# 7		Description 3 Passenger		Vehicle # 2		Name IOSIANE M CARVAGA				Date of Birth 04/Apr/1971		Sex 2 Female		Injury Severity 1 None		Ejection 1 Not Ejected	
Address VIALE MARCONI 12D						City DALMINE BERGAMO ITALY						State FF		Zip Code 00000			
Restraint System 3 Shoulder and Lap Belt Used		Air Bag Deployed 2 Not Deployed		Helmet Use		Eye Protection 3 Not Applicable		Seating Location Seat 3		Seating Location Row 1		Seating Location Other					

Address 145 MAPLEHURST DR		City FOLKSTON		State GA	Zip Code 31537	
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 3 Deployed-Front	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 1	Seating Location Other
Source of Transport to Medical Facility 2 EMS		EMS Agency Name or ID ISLAMORADA FIRE RESC		EMS Run Number ISLAMORADA		Medical Facility Transported To MARINERS HOSPITAL

PERSON RECORD

Person# 13	Description 3 Passenger	Vehicle # 3	Name SAMMIE WASHINGTON	Date of Birth 26/Aug/1981	Sex 1 Male	Injury Severity 3 Non-incapacitating	Ejection 1 Not Ejected
Address 3817 AUSTRALIAN CT		City WPB		State FL	Zip Code 33407		
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 4 Deployed-Side	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 2	Seating Location Other	
Source of Transport to Medical Facility 2 EMS		EMS Agency Name or ID ISLAMORADA FIRE RESC		EMS Run Number ISLAMORADA		Medical Facility Transported To MARINERS HOSPITAL	

PERSON RECORD

Person# 12	Description 3 Passenger	Vehicle # 3	Name CHARLETTE MARIE GLASSBY WASHINGTON	Date of Birth 13/Oct/1980	Sex 2 Female	Injury Severity 3 Non-incapacitating	Ejection 1 Not Ejected
Address 3817 AUSTRALIAN CT		City WEST PALM BEACH		State FL	Zip Code 33407		
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 4 Deployed-Side	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 1	Seating Location Row 2	Seating Location Other	
Source of Transport to Medical Facility 2 EMS		EMS Agency Name or ID ISLAMORADA FIRE RESC		EMS Run Number ISLAMORADA		Medical Facility Transported To MARINERS HOSPITAL	

PERSON RECORD

Person# 14	Description 3 Passenger	Vehicle # 3	Name LATORYA NASHAE SIMS	Date of Birth 31/Jan/1988	Sex 2 Female	Injury Severity 3 Non-incapacitating	Ejection 1 Not Ejected
Address 426 KINLAW RD		City WOODBINE		State GA	Zip Code 31569		
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 4 Deployed-Side	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 1	Seating Location Row 3	Seating Location Other	
Source of Transport to Medical Facility 2 EMS		EMS Agency Name or ID ISLAMORADA FIRE RESC		EMS Run Number ISLAMORADA		Medical Facility Transported To MARINERS HOSPITAL	

WITNESSES

Name ADREIN ANTHONY PAUL BOCQUET	Address 344 RTE MENTAXURI ST PIERRE D	City IRUBE FRANCE	State FF	Zip Code 64990
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WITNESSES

Name CARLOS HERNANDEZ	Address 8321 SW 157TH AVE APT 805	City MIAMI	State FL	Zip Code 33193
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VIOLATIONS

Person# 1	Name KRISTEN LEE ANTONELLO	Florida Statute Number 316.1925(1)	Charge CARELESS DRIVING	Citation A510TJE
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NARRATIVE

Date of Crash 02/Jan/2016 12:55 PM	Date of Report 02/Jan/2016 12:55 PM	Invest. Agency Report Number FHPE16OFF000233	HSMAI Crash Report Number 85240428
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ID Number	Rank	Name	Troop / Post	Officer Agency	Phone Number	Date Created
2518	TROOPER	J.C. CARRILLO	E	FLORIDA HIGHWAY PATROL	305-470-2500	Jan 02, 2016

V-2 was traveling south on US-1 and approaching the Snake Creek Bridge at the 85.8 Mile Marker. V-1 was traveling south and directly behind V-2. V-3 was traveling north on US-1 and approaching the Snake Creek Bridge. D-2 stated that the traffic in front was reducing speed, so she proceeded to reduce speed. V-1 failed to reduce its speed and drove to the left and struck the left rear corner of V-2 with its front right corner. V-2 was still moving forward when impacted. V-1 continued traveling south and onto the northbound lane. V-1 and V-3 then struck each other in a head on collision on top of the metal part of the draw bridge. V-1 and V-3 came to final rest at the point of impact still attached to each other. V-2 traveled a short distance and came to a controlled stop.

Debra Campbell Antonello, date of birth of 07/31/1957, was pronounced deceased at 2:00 PM on 01/02/2016. She was pronounced by Dr. Miguel Diaz at Mariner's Hospital.

Notification of kin was made to William Roger Antonello, husband of Debra Campbell Antonello, on 01/02/2016 at 2:50 PM. Notification was made by Dr. Miguel Diaz at Mariner's Hospital.

On scene photographs were Trooper Julio Carrillo (2518/930).

Scene measurements were taken on 01/03/2016 at 7:20 AM by Corporal David N. Riso (2088/844).

Traffic Homicide Investigation conducted by Corporal David N. Riso (2088/844).

Traffic Homicide case number is FHP716-38-001.

ID Number	Rank	Name	Troop / Post	Officer Agency	Phone Number	Date Created
2518	TROOPER	J.C. CARRILLO	E	FLORIDA HIGHWAY PATROL	305-470-2500	Feb 09, 2016

Pending THI Investigation.

ID Number	Rank	Name	Troop / Post	Officer Agency	Phone Number	Date Created
2088	CORPORAL	D. N. RISO	E	FLORIDA HIGHWAY PATROL	305-470-2500	Feb 23, 2016

Charges and information were updated for D-1.

This case is closed.

REPORTING OFFICER

ID/Badge # 2088	Rank and Name CORPORAL D. N. RISO	Department FLORIDA HIGHWAY PATROL	Type of Department FHP
--------------------	--------------------------------------	--------------------------------------	---------------------------

US-1
Southbound Lane

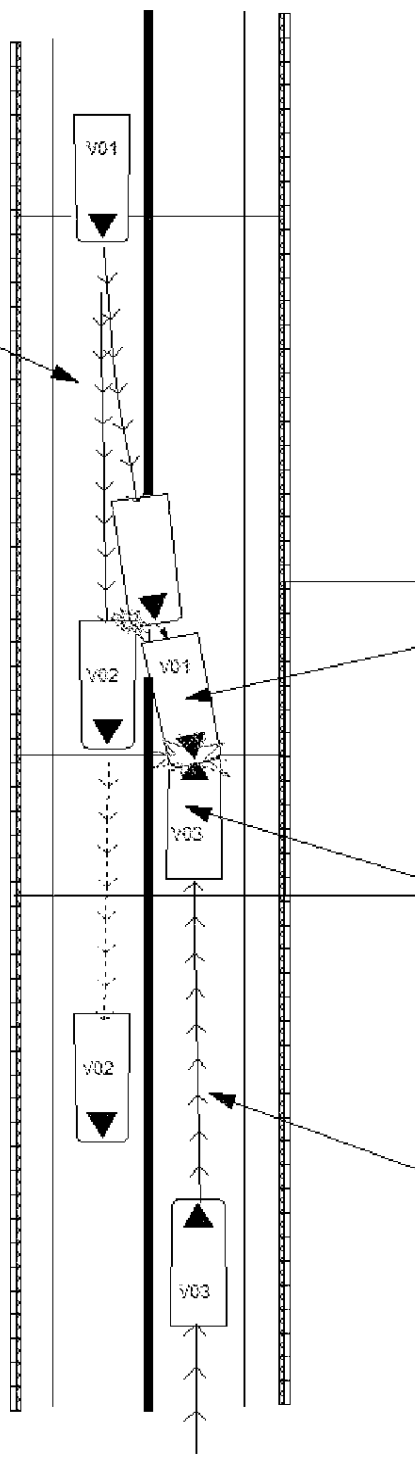


Not To Scale

V-1
Final Rest

V-3
Final Rest

US-1
Northbound Lane





```
          CCCCCCCCCC      AAAAAAAAAA      RRRRRRRRRR
        CCCCCCCCCC      AAAAAAAAAAAA      RRRRRRRRRRRR
       CCC             AAA      AAA      RRR      RRR
      CCC             AAA      AAA      RRR      RRR
     CCC             AAAAAAAAAA      RRRRRRRRRRRR
    CCC             AAAAAAAAAAAA      RRRRRRRRRRRRRR
   CCC             AAA      AAA      RRR      RRR
  CCC             AAA      AAA      RRR      RRR
 CCCCCCCCCC      AAA      AAA      RRR      RRRR
CCCCCCCCCCCC      AAA      AAA      RRR      RRRRRR
```

C R A S H R E P O R T I N G S Y S T E M

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

```
I/O NAME: ..... CARI122
PROGRAM ID: ..... CARPJ122
REPORT NUMBER: ..... 01
RUN CLASS: ..... A
MESSAGE CLASS: ..... Q
PRINTER DEST: ..... LOCAL
# COPIES: ..... 01
ACCOUNT #: ..... 5565945
SUBMIT W/HOLD? ..... N
USERID: ..... KNCHOEL
DETAIL SORT ORDER: ..... 1 - SORT BY ROADWAY, MILE POINT
PRINT SEGMENTS? ..... Y
PRINT INTERSECTIONS? ..... N
SUMMARY FORMAT: ..... 2 - TOP LINE ALL BREAKS
OVERRIDE VALUES:
MAX # OF BREAKS: ..... 06
CRASH RATE CATEGORY: ...
AVERAGE DAILY TRAFFIC:..
# OF LEGS: .....
```

REPORT...CARPJ122-01
DATE...01/05/2017
TIME...08:57:42

FLORIDA - DEPARTMENT OF TRANSPORTATION
C A R - CRASH ANALYSIS REPORTING SYSTEM
CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 1
USERID: KNCHOEL
I/O.... CARO213

COMMENT:

1 - SORT BY ROADWAY, MILE POINT

FROM: 01/01/2012 TO 12/31/2014 RAMP INCL
FROM CO/SEC/SUB: 90 060 000 MP: 011.915 INFL INCL
TO CO/SEC/SUB: 90 060 000 MP: 012.116 CR/OS INCL

C	ROADWYID	M	N	S	ADT	Y	M	D	H	CRCC	A	H	MO	L	W	R	R	DL	R	A	V	V	VF	VM	VA	V	V	V	VN	VN	N	V	#	#	#					
R	N	C	S	S	I	EN	TR	VAR	E	O	A	O	RALA	L	AE	AF	IC	EC	D	OC	OO	O	C	1	1	1U	1A	1C	1A	2	2N	2N	2M	2M	M	2N				
A	U	O	E	E	L	AO	AO	EIA	A	N	Y	U	ATAT	C	RV	N	GO	AO	AO	TC	A	C		N	N	T	G		M	M					M	V	K	I		
S	M	U	C	SC	E	RD	TA	RLF	R	T		R	SESE		ME	NC	HN	TN	S	DN	A	D		D	B	SC	E	DI	DE	D	B	F	MP	AA	A	D	E	I	N	
H	B	N	T	UT	P	EE	ED	AYF		H		H	SG	I	FN	EO	TD	HD	U	D	ST		L	I	OT	P	U	RO	R	I	OD	UL	NR	CC	C	RA	H	L	J	
E		T	I	BI	O	S		G	I			O	N	UT	RL	IT	ET	R	T	II	S	N	R	DY	E	V	IN	I	R	DE	NO	VI	TT	T	AG	C	L	U		
R		Y	O	O	S	T		E	C			R	V	L	L	NN	RN	F	N	TO	D		YP	C	E	V	V	/S	CC	RO	1N	N	GE	L	E	R				
		N	N	T				Y		1	GS	S	S	EN	#	E	R	R1	R	C	/	/R	/1	2	E	S	D	D												

833071240	90060000	11.916	0610		5	025500	14	01	06	07	S-2UN	0	14	01	01	02	02	01	06	L	1	S	20	01	01	02	35	S	01	01	14	11					49	2	0	02
820502950	90060000	11.948	0610		5	019900	12	01	20	14	S-2UN	0	14	01	01	01	01	01	06	L	1	S	16	01	01	02	56	S	16	01	14	01					57	3	0	00
820543700	90060000	11.966	0610		5	019300	13	04	26	14	S-2UN	0	14	01	01	01	01	01	01	L	1	S	11	01	01	02	52	S	16	01	13	01					29	2	0	01
836423310	90060000	11.966	0610		5	019300	13	10	12	12	S-2UN	0	14	01	01	01	01	01	01	L	1	S	16	01	01	02	25	S	16	01	14	01					22	4	0	02
829097530	90060000	12.016	0610		5	019900	12	10	28	03	S-2DP	1	14	02	04	01	01	01	01	R	1	S	01	01	01	25	25	N	01	01	01	01					21	3	0	01
829097610	90060000	12.016	0610		5	019900	12	11	26	08	S-2DP	0	14	01	01	01	01	01	01	L	2	S	16	01	01	02	69	S	01	01	14	01					47	2	0	00
832911370	90060000	12.016	0610		5	019300	13	03	29	10	S-2DP	0	14	01	01	01	01	01	01	L	1	S	16	01	01	02	57	S	16	01	13	01					35	2	0	00
832911400	90060000	12.016	0610		5	019300	13	03	31	13	S-2DP	0	14	01	01	01	01	01	01	L	1	S	16	01	01	02	43	S	01	01	14	01					35	2	0	00
832911920	90060000	12.016	0610		5	019300	13	09	28	13	S-2DP	0	14	01	01	01	01	01	01	R	1	N	03	01	01	02	40	N	01	01	01	01					20	2	0	00
837685220	90060000	12.066	0610		5	025500	14	11	24	17	S-2DP	0	14	01	04	01	01	01	01	L	1	S	11	01	01	02	34	S	17	01	01	01					28	2	0	00
838002220	90060000	12.083	0367		5	025500	14	08	30	16	S-2DP	0	14	01	01	02	01	01	01	L	1	S	03	01	01	02	16	S	16	01	13	01					32	2	0	00
822671340	90060000	12.116	0367		5	019900	12	10	30	21	S-2DP	0	14	05	05	01	01	01	01	L	2	N	16	01	11	15	33	S	16	01	01	01					18	2	0	00

REPORT...CARPJ122-01
 DATE...01/05/2017
 TIME...08:57:42

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 2
 USERID: KNCHOEL
 I/O.... CARI122

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
 FROM: 01/01/2012 TO 12/31/2014 RAMPS INCL
 FROM CO/SEC/SUB: 90 060 000 MP: 011.915 INFL INCL
 TO CO/SEC/SUB: 90 060 000 MP: 012.116 CR/OS INCL

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2012	0	0	0	1	1	3	4	0	1	0	0
2013	0	0	0	2	3	3	5	0	3	0	0
2014	0	0	0	1	2	2	3	0	2	0	0
TOTAL	0	0	0	4	6	8	12	0	6	0	0

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REPORT...CARPJ122-01
 DATE...01/05/2017
 TIME...08:57:42

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS
 *** REPORT TOTALS ***

PAGE NO: 3
 USERID: KNCHOEL
 I/O.... CARI122


CUMULATIVE TOTALS FOR ALL LOCATIONS SUBMITTED - OVERLAPPING OR INTERSECTING LOCATIONS MAY RESULT IN CRASHES COUNTED MORE THAN ONCE

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2012	0	0	0	1	1	3	4	0	1	0	0
2013	0	0	0	2	3	3	5	0	3	0	0
2014	0	0	0	1	2	2	3	0	2	0	0
TOTAL	0	0	0	4	6	8	12	0	6	0	0

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DISPOSITION OF FATAL CRASH

DATE RECEIVED	08/12/2016	DATE OF CRASH	06/27/2016	2016 - B08 No 20	
SECTION	90060000	STATE ROAD	5	CRASH NUMBER	852853820
APPROX. MILEPOST	12.316	DATE INVESTIGATED	07/21/2016	DATE DISPOSED	
CRASH LOCATION DESCRIPTION					
US 1 / SR 5 / OVERSEAS HWY, 0.1 miles N of VENETIAN BLVD					
INITIAL ACTION					
<input type="checkbox"/> Obvious (crash description) roadway features not contributory <input type="checkbox"/> Not part of significant increase in fatal crashes <input checked="" type="checkbox"/> No action required					
FIELD INVESTIGATED DATE		N/A			
<input type="checkbox"/> Roadway feature not involved <input type="checkbox"/> Minor corrections needed <input type="checkbox"/> Sent to Maintenance <input type="checkbox"/> Sent to Traffic Operations <input type="checkbox"/> Memo attached <input type="checkbox"/> Crash Study initiated					
<p>No action is recommended in relation to the fatal crash.</p> <p>The fatal crash reported in this document is a head-on crash along SR 5 / US 1 / Overseas Highway (referred to as SR 5 throughout the remainder of the document), approximately 0.1 miles north of Venetian Blvd. The narrative in the police report indicates that Vehicle 1 was northbound on SR 5 at approximately 40 mph. Witnesses stated that Vehicle 1 kept crossing the center double yellow line multiple times. Vehicle 2 was southbound on SR 5. Vehicle 3 and Vehicle 4 were both traveling north behind Vehicle 1. Vehicle 1 drifted left of center and struck Vehicle 2's left front with its left front. Vehicle 4 could not avoid striking the debris field as it was traveling north. Vehicle 2 continued to travel south, but because its front left tire had been damaged, it was forced across the northbound lane and in front of Vehicle 3's path of travel. Vehicle 2 then struck Vehicle 3's left front area, forcing both vehicles up against the guardrail. Driver 1 was wearing a shoulder and lap belt and the air bag deployed. Driver 1 was air lifter to Ryder Trauma and was pronounced deceased at 2:29 PM on 06/29/2016. The incident happened on a Monday at 7:52 PM, under dark-not lighted conditions, in cloudy weather and dry roadway conditions.</p> <p>Five years of crash data (2010-2014) was obtained along the segment of SR 5 (MP 12.216 to 12.416), from the FDOT Crash Analysis Reporting (CAR) System. A total of 25 crashes were reported along this segment during the five year study period: 1 crash - 2010, 4 crashes - 2011, 1 crash - 2012, 10 crashes - 2013, and 9 crashes - 2014, showing an increased number of crashes in recent years. Out of the total number of crashes, 1 crash (4%) occurred during nighttime conditions and 3 crashes (12%) occurred under wet roadway surface conditions. The most common crash type along the study location is rear-end crashes (15 crashes). The subject fatal crash and one other head-on crash are presented in the collision diagram. The calculated Confidence Levels for this segment do not suggest that the subject location crash rate was abnormally high in any year of the study period (2010-2014). An Expected Value Analysis (EVA) was not performed because the incident occurred along a roadway segment. A review of the high crash segments from the High Crash/Reference Segments Report, obtained from the CAR System, found that this segment of SR 5 has not been identified as a high crash segment in any year of the study period (2010-2014).</p> <p>Google Earth aerials and street view imagery were reviewed in the office to identify existing roadway characteristics and conditions that may have led to the fatal crash. SR 5 is a two-way two-lane undivided roadway with 10 foot paved shoulders in both directions that include bike lanes. Street lighting is not present along the section. The posted speed limit is 45 mph along the section. Pavement and pavement markings appear to be in good condition, including centerline RPMs spaced at approximately 40 feet. The segment is not included in any programmed projects.</p> <p>No roadway features appear to have contributed to the crash, therefore, no further action is recommended at his time.</p>					
DISTRICT SAFETY ENGINEER (SIGNATURE)				 DATE 8/17/17	



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DISPOSITION OF FATAL CRASH

DATE RECEIVED	08/12/2016	DATE OF CRASH	06/27/2016	2016 - B08 No 20	
SECTION	90060000	STATE ROAD	5	CRASH NUMBER	852853820
APPROX. MILEPOST	12.316	DATE INVESTIGATED	07/21/2016	DATE DISPOSED	
CRASH LOCATION DESCRIPTION					
US 1 / SR 5 / OVERSEAS HWY, 0.1 miles N of VENETIAN BLVD					
INITIAL ACTION					
<input type="checkbox"/> Obvious (crash description) roadway features not contributory <input type="checkbox"/> Not part of significant increase in fatal crashes <input checked="" type="checkbox"/> No action required					
FIELD INVESTIGATED DATE					
N/A					
<input type="checkbox"/> Roadway feature not involved <input type="checkbox"/> Minor corrections needed <input type="checkbox"/> Sent to Maintenance <input type="checkbox"/> Sent to Traffic Operations <input type="checkbox"/> Memo attached <input type="checkbox"/> Crash Study initiated					
<p>No action is recommended in relation to the fatal crash.</p> <p>The fatal crash reported in this document is a head-on crash along SR 5 / US 1 / Overseas Highway (referred to as SR 5 throughout the remainder of the document), approximately 0.1 miles north of Venetian Blvd. The narrative in the police report indicates that Vehicle 1 was northbound on SR 5 at approximately 40 mph. Witnesses stated that Vehicle 1 kept crossing the center double yellow line multiple times. Vehicle 2 was southbound on SR 5. Vehicle 3 and Vehicle 4 were both traveling north behind Vehicle 1. Vehicle 1 drifted left of center and struck Vehicle 2's left front with its left front. Vehicle 4 could not avoid striking the debris field as it was traveling north. Vehicle 2 continued to travel south, but because its front left tire had been damaged, it was forced across the northbound lane and in front of Vehicle 3's path of travel. Vehicle 2 then struck Vehicle 3's left front area, forcing both vehicles up against the guardrail. Driver 1 was wearing a shoulder and lap belt and the air bag deployed. Driver 1 was air lifter to Ryder Trauma and was pronounced deceased at 2:29 PM on 06/29/2016. The incident happened on a Monday at 7:52 PM, under dark-not lighted conditions, in cloudy weather and dry roadway conditions.</p> <p>Five years of crash data (2010-2014) was obtained along the segment of SR 5 (MP 12.216 to 12.416), from the FDOT Crash Analysis Reporting (CAR) System. A total of 25 crashes were reported along this segment during the five year study period: 1 crash - 2010, 4 crashes - 2011, 1 crash - 2012, 10 crashes - 2013, and 9 crashes - 2014, showing an increased number of crashes in recent years. Out of the total number of crashes, 1 crash (4%) occurred during nighttime conditions and 3 crashes (12%) occurred under wet roadway surface conditions. The most common crash type along the study location is rear-end crashes (15 crashes). The subject fatal crash and one other head-on crash are presented in the collision diagram. The calculated Confidence Levels for this segment do not suggest that the subject location crash rate was abnormally high in any year of the study period (2010-2014). An Expected Value Analysis (EVA) was not performed because the incident occurred along a roadway segment. A review of the high crash segments from the High Crash/Reference Segments Report, obtained from the CAR System, found that this segment of SR 5 has not been identified as a high crash segment in any year of the study period (2010-2014).</p> <p>Google Earth aerials and street view imagery were reviewed in the office to identify existing roadway characteristics and conditions that may have led to the fatal crash. SR 5 is a two-way two-lane undivided roadway with 10 foot paved shoulders in both directions that include bike lanes. Street lighting is not present along the section. The posted speed limit is 45 mph along the section. Pavement and pavement markings appear to be in good condition, including centerline RPMs spaced at approximately 40 feet. The segment is not included in any programmed projects.</p> <p>No roadway features appear to have contributed to the crash, therefore, no further action is recommended at his time.</p>					
DISTRICT SAFETY ENGINEER (SIGNATURE)				DATE	

DISPOSITION OF FATAL CRASH

DISTRICT SIX INITIAL REVIEW

- | | |
|---|-----|
| <input type="checkbox"/> Relevant Studies/CTPs | N/A |
| <input type="checkbox"/> Relevant Programmed Projects | N/A |

 CRASH NARRATIVE

The subject crash occurred along SR 5, approximately 0.1 miles north of Venetian Blvd, in Islamorada Village of Islands, Monroe County on June 27, 2015 at 7:52 PM. According to the police report, Vehicle 1 was traveling north on SR 5 at approximately 40 mph. Witnesses stated that Vehicle 1 kept crossing the center double yellow line multiple times. Vehicle 2 was traveling south on SR 5. Vehicle 3 and Vehicle 4 were both traveling north behind Vehicle 1. Vehicle 1 drifted left of center and struck Vehicle 2's left front with its left front. Vehicle 4 could not avoid striking the debris field as it was traveling north. Vehicle 2 continued to travel south, but because its front left tire had been damaged, it was forced across the northbound lane and in front of Vehicle 3's path of travel. Vehicle 3 veered to the right and onto the northbound solid white line. Vehicle 2 then struck Vehicle 3's left front area, forcing both vehicles up against the guardrail. Driver 1 was wearing a shoulder and lap belt and the air bag deployed. Driver 1 was airlifted to Ryder Trauma and was pronounced deceased at 2:29 PM on 06/29/2016. The incident happened on a Monday at 7:52 PM, under dark-not lighted conditions, in cloudy weather and dry roadway conditions.

 CRASH DATA REVIEW (crash summary sheets attached)

The subject crash was a head-on crash. Five years of crash data (2010-2014) was obtained along the segment of SR 5 (MP 12.216 to 12.416), from the FDOT Crash Analysis Reporting (CAR) System. A total of 25 crashes were reported along this segment during the five year study period: 1 crash - 2010, 4 crash - 2011, 1 crashes - 2012, 10 crashes - 2013, and 9 crashes - 2014, showing an increased number of crashes in recent years. Out of the total number of crashes, 1 crash (4%) occurred during nighttime conditions. The most common crash type along the study location is rear-end crashes (15 crashes). Out of the total number of crashes, 9 were injury crashes (36%), 0 were fatal crashes, and 3 crashes (12%) occurred under wet roadway surface conditions.

The subject fatal crash and one other head-on crash are presented in the collision diagram. The calculated Confidence Levels for this segment do not suggest that the subject location crash rate was abnormally high in any year of the study period (2010-2014).

An Expected Value Analysis (EVA) was not performed because the incident occurred along a roadway segment.

A review of the high crash segments from the High Crash/Reference Segments Report, obtained from the CAR System, found that this segment of SR 5 has not been identified as a high crash segment in any year of the study period (2010-2014).

 OFFICE-BASED REVIEW NOTES

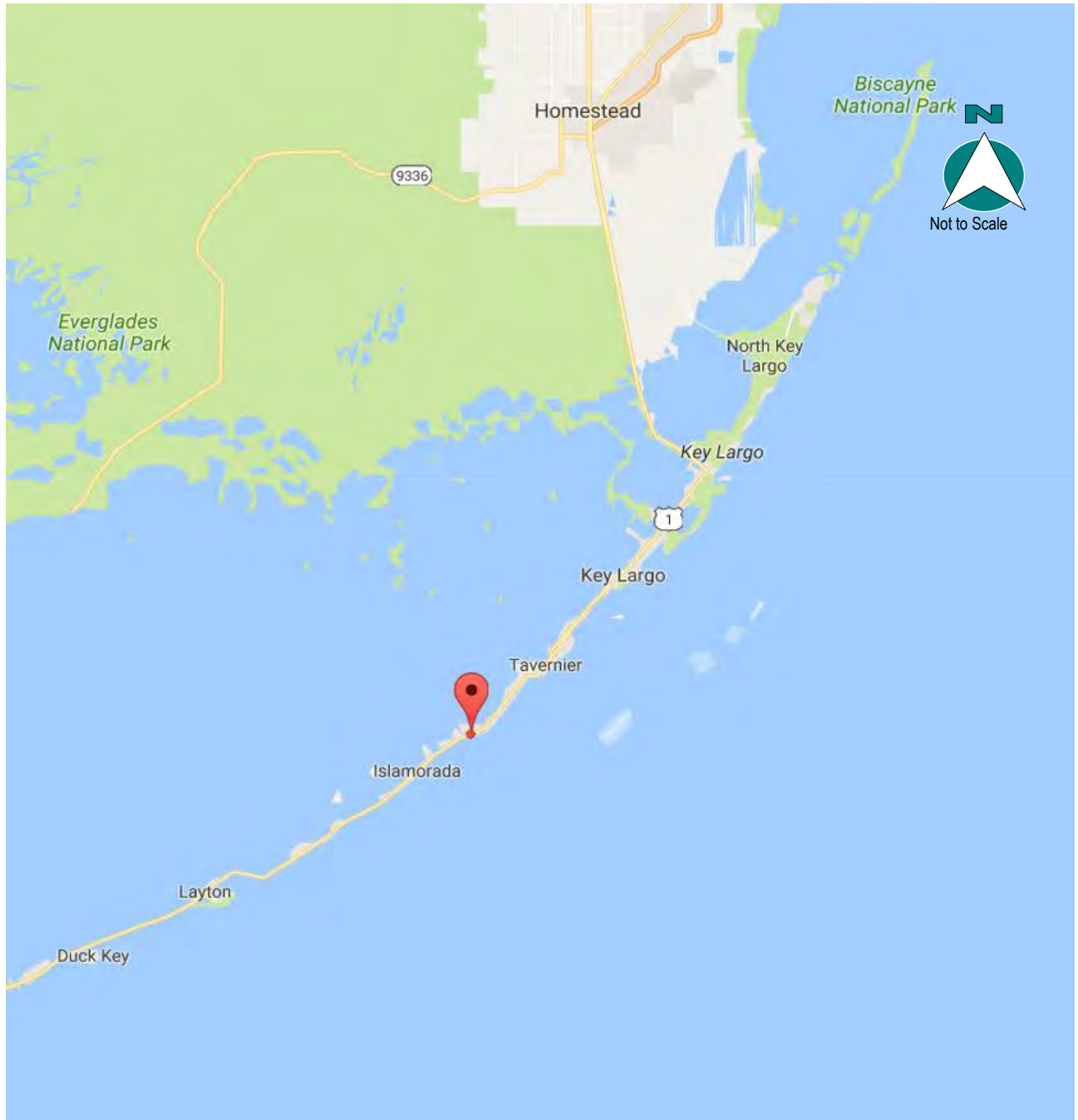
Google Earth aeriels and street view imagery were reviewed in the office to identify existing roadway characteristics and conditions that may have led to the fatal crash. SR 5 is a two-way two-lane undivided roadway with 10 foot paved shoulders in both directions that include bike lanes. Street lighting is not present along the section. The posted speed limit is 45 mph along the section. Pavement and pavement markings appear to be in good condition, including centerline RPMs spaced at approximately 40 feet.

The segment is not included in any programmed projects.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

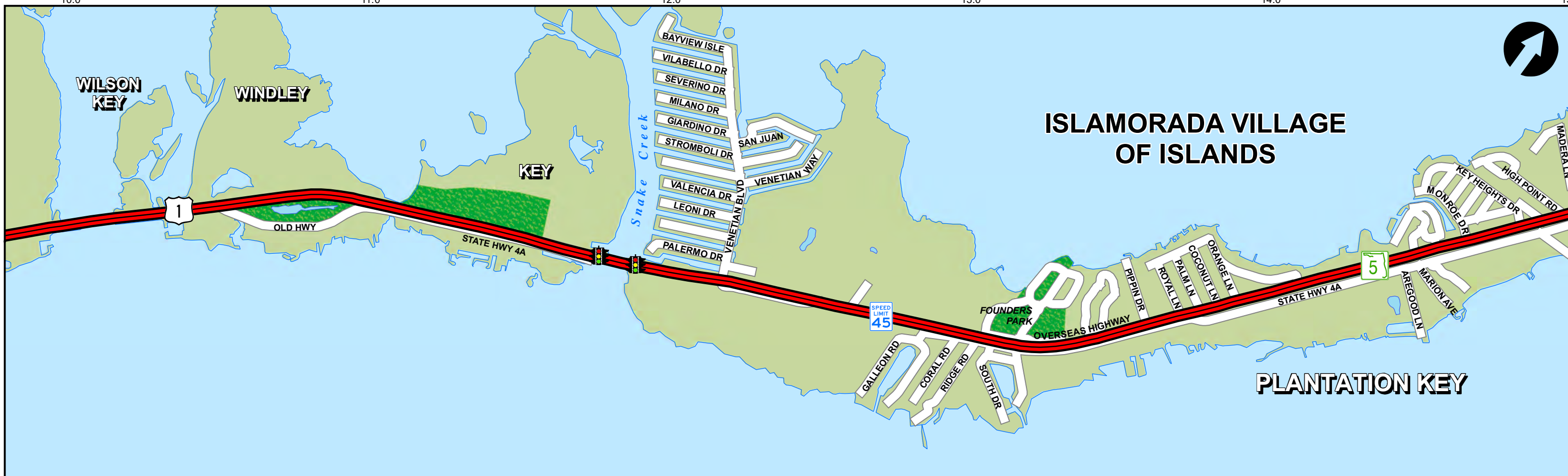
LOCATION MAP

LOCATION ID	US 1 / SR 5 / OVERSEAS HWY, 0.1 miles N of VENETIAN BLVD				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.216	END MILEPOST	12.416	PREPARED BY	KAI



CRASH SUMMARY (5 YEAR TOTALS)

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
16	9	0	25	1	3



Stationing	Roadway Features	Lane Widths	Roadway Composition	Horizontal Alignment	Structure Description	Traffic Data	SIS	Fun Class	Speed Limit
10.000	INSIDE CITY AND URBAN ISLAMORADA KEY LARGO K=OVERSEAS HWY KSR 5 KUS 1	67.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 7.0' PVD SHLD1 - LT 6.0' PVD SHLD1 - RT 6.0' LWN SHLD2 - LT 6.0' GRVL SHLD2 - RT	28/FC-2 28/FC-2	B=N46°10'01"E	#0076 644.2' BR	AADT= 19,900 K= 9.00		URBAN OTHER PRINCIPAL ARTERIAL NHS	45MPH @ 45MPH 45MPH @ 45MPH
10.089	WHALE HARBOR CHANNEL	44.0' - 24.0' 2 - 12.0' RDWY 2 - 10.0' PVD SHLD1	08/FC-0	PI=10.510		D= 55.00 T= 7.80			45MPH @ 45MPH
10.230	CR 905	58.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' LWN SHLD2 - LT 6.0' LWN SHLD2 - RT	28/FC-2	PC=10.769 PI=10.866 PT=10.961 Δ=20°16'22.00" D=2°00'					45MPH @ 45MPH
10.554	CR 905	65.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' LWN SHLD2 - LT 6.0' LWN SHLD2 - RT	28/FC-2	B=N46°09'59"E					45MPH @ 45MPH
10.814	FRONTAGE RD ENT	50.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' GRVL SHLD2 - LT 10.0' LWN SHLD2 - RT	28/FC-2	B=N66°26'10"E					45MPH @ 45MPH
11.030	FRONTAGE RD ENT	57.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 8.0' GRVL SHLD2 - LT 5.0' LWN SHLD3 - RT	28/FC-2	B=N66°25'48"E					45MPH @ 45MPH
11.201	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-2						45MPH @ 45MPH
11.306	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-2						45MPH @ 45MPH
11.405	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-2						45MPH @ 45MPH
11.616	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-2						45MPH @ 45MPH
11.666	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-2						45MPH @ 45MPH
11.767	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-2						45MPH @ 45MPH
11.788	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	08/FC-0						45MPH @ 45MPH
11.949	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
11.988	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
12.089	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
12.282	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
12.438	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
12.569	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
12.967	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
13.089	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
13.207	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
13.271	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
13.471	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
13.760	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
13.876	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
13.940	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
14.149	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
14.249	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
14.419	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
14.616	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
14.718	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
14.837	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH
14.899	FRONTAGE RD ENT	60.0' - 24.0' 2 - 12.0' RDWY 12.0' PVD MED 6.0' PVD SHLD1 - LT 4.0' PVD SHLD1 - RT 2.0' LWN SHLD2 - LT 2.0' LWN SHLD2 - RT	28/FC-5						45MPH @ 45MPH

COLLISION DIAGRAM

LOCATION ID	US 1 / SR 5 / OVERSEAS HWY, 0.1 miles N of VENETIAN BLVD				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.216	END MILEPOST	12.416	PREPARED BY	KAI



CRASH SUMMARY (5 YEAR TOTALS)

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
16	9	0	25	1	3

LEGEND

Fatal Crash No. (XX)	Crash No. (XX)	Head-On Crash	↔		
2010 Crash (Green)	2011 Crash (Yellow)	2012 Crash (Blue)	2013 Crash (Orange)	2014 Crash (Purple)	Nighttime Crash (Black Star)
					Daylight Crash (Yellow Star)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

STREET VIEW IMAGERY

LOCATION ID	US 1 / SR 5 / OVERSEAS HWY, 0.1 miles N of VENETIAN BLVD				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.216	END MILEPOST	12.416	PREPARED BY	KAI



Looking northbound along SR 5 in the vicinity of the subject fatal crash location (Photo Date: July 2015)



Looking southbound along SR 5 in the vicinity of the subject fatal crash location (Photo Date: July 2015)



SAFETY RATIO/CONFIDENCE LEVEL SUMMARY OF CRASHES BY CONTRIBUTING CAUSE

Location: **US 1 / SR 5 / OVERSEAS HWY, 0.1 miles N of VENETIAN BLVD**
 State Section: 90060000
 State Road: 5
 Roadway Limits: N/A
 Engineer: KAI
 Area Type: Urban
 Spot/Segment: Segment
 Segment Type: 2-3 Lanes 2wy Undivided
 Begin Milepost: 12.216
 End Milepost: 12.416
 Length: 0.200

Year	Number of Crashes	ADT	Actual Crash Rate (ACR)	District 6 Average Crash Rate (A)	Average Vehicle Exposure (M)	Critical Crash Rate (CCR)	Safety Ratio	Statistical Significance	Confidence Level
2010	1	19,800	0.692	6.487	1.445	13.113	0.053	-2.572	0.5053%
2011	4	21,500	2.549	7.380	1.569	14.198	0.180	-2.081	1.8710%
2012	1	19,900	0.688	8.264	1.453	15.769	0.044	-3.032	0.1215%
2013	10	19,300	7.098	8.721	1.409	16.554	0.429	-0.510	30.5093%
2014	9	25,500	4.835	5.539	1.861	10.947	0.442	-0.253	40.0320%

ADT – Average Daily Traffic

ACR – Actual Crash Rate = No. of crashes in a year / Average Vehicle Exposure (M)

M – Average Vehicle Exposure (million vehicles or million vehicles miles) = [(ADT * 365 * L) / 1,000,000]

L = Length of the Segment for Segment Analysis, 1 for Spot Analysis

A – Average Crash Rate

CCR – Critical Crash Rate = $A + K * (\text{SQRT}[A/M]) - (1/[2 * M])$ (Ref: FDOT Highway Safety Improvement Program Guidelines)

K = 3.291 for Urban, 1.960 for Suburban, 1.645 for Rural K = 3.291

Safety Ratio = ACR/CCR

Level of statistical significance = $(ACR - A + (1/2M))/\text{SQRT}(A/M)$

Confidence Level = Percent probability that the crash rate is abnormally high for the location under study, using the district-wide average as a basis.

Summary by Contributing Cause

Contributing Cause\Year	2010	2011	2012	2013	2014	5 Year Total Crashes	Mean Crashes Per Year	Percent
Careless Driving	1	3	0	3	5	12	2.4	48.0%
Failed To Yield Right-Of-Way	0	0	0	3	2	5	1.0	20.0%
Improper Turn	0	0	1	1	1	3	0.6	12.0%
Followed Too Closely	0	0	0	0	1	1	0.2	4.0%
Improper Backing	0	0	0	0	0	0	0.0	0.0%
Improper Lane Change	0	0	0	0	0	0	0.0	0.0%
Alcohol/Drugs-Under Influence	0	0	0	0	0	0	0.0	0.0%
Disregarded Traffic Control (Signal/Stop)	0	0	0	0	0	0	0.0	0.0%
Failed To Maintain Equipment/Vehicle	0	0	0	0	0	0	0.0	0.0%
Improper Passing	0	0	0	0	0	0	0.0	0.0%
Exceed Safe/Stated Speed Limit	0	0	0	0	0	0	0.0	0.0%
Driving Wrong Side/Way/Drove Left of Center	0	0	0	0	0	0	0.0	0.0%
All Other	0	1	0	3	0	4	0.8	16.0%
Total	1	4	1	10	9	25	5.0	100.0%

Note: The CARS summary provides two fields for contributing cause. To get a better understanding of the contributing causes in the crash analysis, the following assumptions are made to choose an appropriate contributing cause - If contributing cause 2 is 0 (unknown), 1 (no improper driving), 2 (careless driving), or 77 (all other), then contributing cause 1 is used. If contributing cause 1 is 2, then contributing cause 2 is used. If contributing cause 1 is 3 (failed to yield right-of-way) and contributing cause 2 is 11 (disregarded traffic signal), 13 (disregarded stop sign), 15 (improper passing), or 20 (disregarded other traffic control), then contributing cause 2 is used.

CRASH STATISTICS

US 1 / SR 5 / OVERSEAS HWY, 0.1 miles N of VENETIAN BLVD		Number of Crashes					5 Year Total Crashes	Mean Crashes Per Year	%
		Year							
		2010	2011	2012	2013	2014			
CRASH TYPE	Rear End	1	3	0	6	5	15	3.00	60.0%
	Head On	0	0	0	0	1	1	0.20	4.0%
	Angle	0	0	0	2	1	3	0.60	12.0%
	Left Turn	0	0	0	0	0	0	0.00	0.0%
	Right Turn	0	0	0	0	0	0	0.00	0.0%
	Sideswipe	0	0	0	1	2	3	0.60	12.0%
	Backed Into	0	0	0	0	0	0	0.00	0.0%
	Coll. w/ Parked Car	0	0	0	0	0	0	0.00	0.0%
	Coll. w/ Pedestrian	0	0	0	0	0	0	0.00	0.0%
	Coll. w/ Bicycle	0	0	0	1	0	1	0.20	4.0%
	Fixed Object	0	1	1	0	0	2	0.40	8.0%
	Ran Off Road	0	0	0	0	0	0	0.00	0.0%
	Overtuned	0	0	0	0	0	0	0.00	0.0%
	Other	0	0	0	0	0	0	0.00	0.0%
Total Crashes		1	4	1	10	9	25	5.00	100.0%
SEVERITY	PDO Crashes	0	3	0	8	5	16	3.20	64.0%
	Fatal Crashes	0	0	0	0	0	0	0.00	0.0%
	Injury Crashes	1	1	1	2	4	9	1.80	36.0%
LIGHTING CONDITIONS	Daylight	1	3	1	10	8	23	4.60	92.0%
	Dusk	0	0	0	0	0	0	0.00	0.0%
	Dawn	0	0	0	0	0	0	0.00	0.0%
	Dark	0	0	0	0	1	1	0.20	4.0%
	Unknown	0	1	0	0	0	1	0.20	4.0%
SURFACE CONDITIONS	Dry	1	4	1	8	8	22	4.40	88.0%
	Wet	0	0	0	2	1	3	0.60	12.0%
	Others	0	0	0	0	0	0	0.00	0.0%
MONTH OF YEAR	January	0	0	0	1	1	2	0.40	8.0%
	February	0	1	0	2	0	3	0.60	12.0%
	March	0	1	0	1	3	5	1.00	20.0%
	April	0	0	0	0	2	2	0.40	8.0%
	May	0	2	0	3	1	6	1.20	24.0%
	June	1	0	0	1	0	2	0.40	8.0%
	July	0	0	0	1	0	1	0.20	4.0%
	August	0	0	1	0	0	1	0.20	4.0%
	September	0	0	0	0	1	1	0.20	4.0%
	October	0	0	0	0	0	0	0.00	0.0%
	November	0	0	0	0	0	0	0.00	0.0%
	December	0	0	0	1	1	2	0.40	8.0%
DAY OF WEEK	Sunday	0	1	0	1	2	4	0.80	16.0%
	Monday	0	1	0	1	1	3	0.60	12.0%
	Tuesday	0	0	0	3	2	5	1.00	20.0%
	Wednesday	0	0	0	0	0	0	0.00	0.0%
	Thursday	1	1	0	2	1	5	1.00	20.0%
	Friday	0	0	0	3	1	4	0.80	16.0%
	Saturday	0	1	1	0	2	4	0.80	16.0%
HOUR OF DAY	00:00-06:00	0	1	0	0	1	2	0.40	8.0%
	06:00-09:00	0	0	0	2	0	2	0.40	8.0%
	09:00-11:00	0	2	0	0	1	3	0.60	12.0%
	11:00-13:00	0	0	0	5	1	6	1.20	24.0%
	13:00-15:00	1	0	0	0	2	3	0.60	12.0%
	15:00-18:00	0	1	1	3	4	9	1.80	36.0%
	18:00-24:00	0	0	0	0	0	0	0.00	0.0%

Notes:

- 1) Collision with Bicycle Crashes include Collision with Bicycle/Collision with Bicycle in Bike Lane (Codes 11 and 12).
- 2) Fixed Object Crashes include collisions with sign/sign post, utility/light pole, guardrail, fence, concrete barrier wall, bridge, pier, abutment, rail, tree, shrubbery, construction barricade/sign, traffic gate, crash attenuators, other fixed objects (incl. above road).
- 3) Ran-off-Road Crashes include Ran in Ditch/Culvert and Ran off road into water (Codes 29 and 30).
- 4) Other crashes include crashes not categorized as the crash types shown in the table.
- 5) Dark Crashes include both scenarios - with and without street lighting.

**FLORIDA DEPARTMENT OF TRANSPORTATION
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: N/A M.P. 12.216 TO 12.416 ENGINEER: KAI
STUDY PERIOD: FROM 1/ 10 TO 12/ 10 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE	FATAL	INJURY	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE	
1	12.416	06/10/10	Thu	1300	Rear-End	0	1	0	Day	Dry	Careless Driving	
Total No.		Fatal	Injury	PDO	Angle	Left Turn	Right Turn	Rear End	Side swipe	Ped/ Bike		
1		0	1	0	0	0	0	1	0	0		
		0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%		
One Vehicle		Day	Night	Wet	Dry	Excess Speed	FTYRW	DUI				
0		1	0	0	1	0	0	0				
0.00%		100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%				
TOTAL ENTERING VEHICLES/ADT:						19,800						SEGMENT CRASH RATE: 0.692

**FLORIDA DEPARTMENT OF TRANSPORTATION
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: N/A M.P. 12.216 TO 12.416 ENGINEER: KAI
STUDY PERIOD: FROM 1/ 11 TO 12/ 11 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE	FATAL	INJURY	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE	
1	12.218	05/28/11	Sat	0000	Hit Sign/Sign Post	0	0	1	Unknown	Dry	#N/A	
2	12.229	03/07/11	Mon	1500	Rear-End	0	0	1	Day	Dry	Careless Driving	
3	12.311	02/13/11	Sun	1000	Rear-End	0	3	0	Day	Dry	Careless Driving	
4	12.316	05/19/11	Thu	0900	Rear-End	0	0	1	Day	Dry	Careless Driving	
Total No.		Fatal	Injury	PDO	Angle	Left Turn	Right Turn	Rear End	Side swipe	Ped/ Bike		
4		0	1	3	0	0	0	3	0	0		
		<i>0.00%</i>	<i>25.00%</i>	<i>75.00%</i>	<i>0.00%</i>	<i>0.00%</i>	<i>0.00%</i>	<i>75.00%</i>	<i>0.00%</i>	<i>0.00%</i>		
One Vehicle		Day	Night	Wet	Dry	Excess Speed	FTYRW	DUI				
1		3	0	0	4	0	0	1				
<i>25.00%</i>		<i>75.00%</i>	<i>0.00%</i>	<i>0.00%</i>	<i>100.00%</i>	<i>0.00%</i>	<i>0.00%</i>	<i>25.00%</i>				
TOTAL ENTERING VEHICLES/ADT:						21,500						SEGMENT CRASH RATE: 2.549

**FLORIDA DEPARTMENT OF TRANSPORTATION
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: N/A M.P. 12.216 TO 12.416 ENGINEER: KAI
STUDY PERIOD: FROM 1/ 12 TO 12/ 12 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE	FATAL	INJURY	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE	
1	12.263	08/18/12	Sat	1500	Hit Fence	0	1	0	Day	Dry	Improper Turn	
Total No.		Fatal	Injury	PDO	Angle	Left Turn	Right Turn	Rear End	Side swipe	Ped/ Bike		
1		0	1	0	0	0	0	0	0	0		
		0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
One Vehicle		Day	Night	Wet	Dry	Excess Speed	FTYRW	DUI				
0		1	0	0	1	0	0	0				
0.00%		100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%				
TOTAL ENTERING VEHICLES/ADT:						19,900						SEGMENT CRASH RATE: 0.688

**FLORIDA DEPARTMENT OF TRANSPORTATION
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: N/A M.P. 12.216 TO 12.416 ENGINEER: KAI
STUDY PERIOD: FROM 1/ 13 TO 12/ 13 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE	FATAL	INJURY	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE
1	12.216	02/28/13	Thu	1500	Coll. W/ Bicycle	0	1	0	Day	Dry	Failed To Yield Right-Of-Way
2	12.216	05/28/13	Tue	1500	Angle	0	0	1	Day	Wet	Failed To Yield Right-Of-Way
3	12.229	03/05/13	Tue	0800	Rear-End	0	0	1	Day	Dry	No Improper Driving/Act
4	12.229	12/27/13	Fri	1600	Rear-End	0	0	1	Day	Dry	Careless Driving
5	12.240	01/27/13	Sun	1200	Rear-End	0	0	1	Day	Dry	No Improper Driving/Act
6	12.240	02/22/13	Fri	1200	Angle	0	1	0	Day	Dry	Failed To Yield Right-Of-Way
7	12.254	06/04/13	Tue	1100	Rear-End	0	0	1	Day	Wet	Unknown/Not Coded
8	12.311	07/26/13	Fri	0800	Rear-End	0	0	1	Day	Dry	Careless Driving
9	12.416	05/02/13	Thu	1100	Sideswipe	0	0	1	Day	Dry	Improper Turn
10	12.416	05/13/13	Mon	1100	Rear-End	0	0	1	Day	Dry	Careless Driving
Total No.		Fatal	Injury	PDO	Angle	Left Turn	Right Turn	Rear End	Side swipe	Ped/ Bike	
10		0	2	8	2	0	0	6	1	1	
		0.00%	20.00%	80.00%	20.00%	0.00%	0.00%	60.00%	10.00%	10.00%	
One Vehicle		Day	Night	Wet	Dry	Excess Speed	FTYRW	DUI			
1		10	0	2	8	0	3	0			
10.00%		100.00%	0.00%	20.00%	80.00%	0.00%	30.00%	0.00%			
TOTAL ENTERING VEHICLES/ADT:					19,300	SEGMENT CRASH RATE: 7.098					

**FLORIDA DEPARTMENT OF TRANSPORTATION
CRASH SUMMARY**

SECTION: 90060000 STATE ROUTE: 5
ROADWAY LIMITS: N/A M.P. 12.216 TO 12.416 ENGINEER: KAI
STUDY PERIOD: FROM 1/ 14 TO 12/ 14 COUNTY: Monroe

No.	MILE POST	DATE	DAY	TIME	CRASH TYPE	FATAL	INJURY	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE	
1	12.216	04/10/14	Thu	1500	Angle	0	0	1	Day	Dry	Failed To Yield Right-Of-Way	
2	12.229	01/21/14	Tue	1500	Rear-End	0	0	1	Day	Wet	Followed Too Closely	
3	12.229	03/21/14	Fri	1300	Rear-End	0	0	1	Day	Dry	Careless Driving	
4	12.235	09/28/14	Sun	1200	Sideswipe	0	0	1	Day	Dry	Failed To Yield Right-Of-Way	
5	12.254	03/08/14	Sat	0900	Rear-End	0	0	1	Day	Dry	Careless Driving	
6	12.273	05/04/14	Sun	0100	Sideswipe	0	1	0	Night	Dry	Improper Turn	
7	12.311	12/08/14	Mon	1500	Rear-End	0	3	0	Day	Dry	Careless Driving	
8	12.366	04/26/14	Sat	1300	Rear-End	0	1	0	Day	Dry	Careless Driving	
9	12.405	03/25/14	Tue	1600	Head-On	0	4	0	Day	Dry	Careless Driving	
Total No.		Fatal	Injury	PDO	Angle	Left Turn	Right Turn	Rear End	Side swipe	Ped/ Bike		
9		0	4	5	1	0	0	5	2	0		
		<i>0.00%</i>	<i>44.44%</i>	<i>55.56%</i>	<i>11.11%</i>	<i>0.00%</i>	<i>0.00%</i>	<i>55.56%</i>	<i>22.22%</i>	<i>0.00%</i>		
One Vehicle		Day	Night	Wet	Dry	Excess Speed	FTYRW	DUI				
0		8	1	1	8	0	2	1				
<i>0.00%</i>		<i>88.89%</i>	<i>11.11%</i>	<i>11.11%</i>	<i>88.89%</i>	<i>0.00%</i>	<i>22.22%</i>	<i>11.11%</i>				
TOTAL ENTERING VEHICLES/ADT:						25,500						SEGMENT CRASH RATE: 4.835

FLORIDA TRAFFIC CRASH REPORT

HIGHWAY SAFETY & MOTOR VEHICLES,
TRAFFIC CRASH RECORDS

LONG FORM SHORT FORM UPDATE

NEIL KIRKMAN BUILDING, TALLAHASSEE, FL 32399-0537

(Electronic Version)

Date of Crash 27/Jun/2016 07:52 PM	Time of Crash 27/Jun/2016 07:52 PM	Date of Report 21/Jul/2016 07:54 AM	Invest. Agency Report Number FHPE16OFF038963	HSMV Crash Report Number 85285382
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CRASH IDENTIFIERS

County Code 38	City Code 30	County of Crash MONROE	Place or City of Crash ISLAMORADA	Within City Limits Yes	Time Reported 27/Jun/2016 07:57 PM	Time Dispatched 27/Jun/2016 07:59 PM
Time on Scene 27/Jun/2016 08:27 PM	Time Cleared Scene 27/Jun/2016 11:48 PM	Completed No	Reason (if Investigation NOT Completed) PENDING THI			Notified By Law Enforcement

ROADWAY INFORMATION

Crash Occured On Street, Road, Highway US-1 SR5		At Street Address# 1	At Latitude 24.954650000000001	and Longitude -80.582470000000001
At Feet	Or Miles .10	Direction North	From Intersection With Street, Road, Highway VENETIAN BLVD	Or From Milepost #
Road System Identifier 2 U.S.		Type Of Shoulder 1 Paved	Type Of Intersection 1 Not at Intersection	

CRASH INFORMATION (Check if Pictures Taken)

Light Condition 5 Dark-Not Lighted	Weather Condition 2 Cloudy	Roadway Surface Condition 1 Dry	School Bus Related 1 No	Manner Of Collision 2 Front to Front
First Harmful Event Type	First Harmful Event 14	First Harmful Event Location 1 On Roadway	Within Interchange No	First Harmful Event Relation to Junction 1 Non-Junction
Contributing Circumstances: Road 1 None		Contributing Circumstances: Road		Contributing Circumstances: Road
Contributing Circumstances: Environment 1 None		Contributing Circumstances: Environment		Contributing Circumstances: Environment
Work Zone Related 1 No	Crash In Work Zone	Type Of Work Zone	Workers In Work Zone	Law Enforcement In Work Zone

VEHICLE (Check if Commercial)

Vehicle 2	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number EPZM88	State FL	Reg. Expires 31/Dec/2016	Permanent Reg. No	VIN 3HAJFAVK96L352956					
Year 2006	Make INTL	Model TK	Style TK	Color WHI	Extent of Damage Disabling	Est. Damage 5000	Towed Due To Damage Yes	Vehicle Removed By ALL AMERICAN	Rotation Rotation			
Insurance Company GRANADA INS CO				Insurance Policy Number 0110FL00023911								
Name of Vehicle Owner (Check Box If Business) MARCELINO RESENDIZ-GINES <input type="checkbox"/>			Current Address (Number and Street) 760 SW 7 PL			City and State FLORIDA CITY FL		Zip Code 33034-5631				
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Vehicle Traveling:	Direction South	On Street, Road, Highway US-1 SR5 SB MM 86				At Est. Speed 40	Posted Speed 45	Total Lanes 2				
CMV Configuration			Cargo Body Type			Area of Initial Impact			Most Damaged Area			
Comm GVWR/GCWR			Trailer Type (trailer one)			Trailer Type (trailer two)						
Haz. Mat. Release		Haz Mat. Placard		Number		Class						
Motor Carrier Name				US DOT Number								
Motor Carrier Address				City and State				Zip Code		Phone Number		

Comm/Non-Commercial	Vehicle Body Type 19 Other Light Trucks (10,000 lbs (4,536 kg) or less)	Vehicle Defects (one) 1 None	Vehicle Defects (two)	Emergency Vehicle Use 1 No	Special Function of MV 1 No Special Function
Vehicle Maneuver Action 1 Straight Ahead	Trafficway 1 Two-Way, Not Divided	Roadway Grade 1 Level	Roadway Alignment 1 Straight	Most Harmful Event 2 Collision with Non-Fixed Object	Most Harmful Event Detail 14 Motor Vehicle in Transport
Traffic Control Device For This Vehicle 1 No Controls	First (1) Sequence of Events 2 Collision with Non-Fixed Object 14 Motor Vehicle in Transport		Second (2) Sequence of Events 14 Motor Vehicle in Transport		Third (3) Sequence of Events 27 Guardrail Face
Fourth (4) Sequence of Events					

VEHICLE (Check if Commercial)

Vehicle 3	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number 0T0Y	State FL	Reg. Expires 08/Jan/2017	Permanent Reg. No	VIN JTEES41A482084074		
Year 2008	Make TOYOTA	Model HIGHLANDER	Style UT	Color RED	Extent of Damage Disabling	Est. Damage 10000	Towed Due To Damage Yes	Vehicle Removed By ALL AMERICAN	Rotation Rotation

Insurance Company ALL STATE INS CO				Insurance Policy Number 9814876470630								
Name of Vehicle Owner (Check Box If Business) <input type="checkbox"/> ROSELIN TOY COXEY				Current Address (Number and Street) 20 HARBOR LN				City and State ENGLEWOOD FL		Zip Code 34223-0000		
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Vehicle Traveling:	Direction North	On Street, Road, Highway US-1 SR5 NB MM 86				At Est. Speed 40	Posted Speed 45	Total Lanes 2				
CMV Configuration				Cargo Body Type		Area of Initial Impact			Most Damaged Area			
Comm GVWR/GCWR				Trailer Type (trailer one)		Trailer Type (trailer two)						
Haz. Mat. Release		Haz Mat. Placard		Number		Class						
Motor Carrier Name				US DOT Number								
Motor Carrier Address				City and State				Zip Code		Phone Number		
Comm/Non-Commercial	Vehicle Body Type 16 (Sport) Utility Vehicle			Vehicle Defects (one) 1 None		Vehicle Defects (two)		Emergency Vehicle Use 1 No		Special Function of MV 1 No Special Function		
Vehicle Maneuver Action 1 Straight Ahead		Trafficway 1 Two-Way, Not Divided		Roadway Grade 1 Level		Roadway Alignment 1 Straight		Most Harmful Event 2 Collision with Non-Fixed Object		Most Harmful Event Detail 14 Motor Vehicle in Transport		
Traffic Control Device For This Vehicle 1 No Controls		First (1) Sequence of Events 2 Collision with Non-Fixed Object 14 Motor Vehicle in Transport			Second (2) Sequence of Events 27 Guardrail Face			Third (3) Sequence of Events		Fourth (4) Sequence of Events		

VEHICLE (Check if Commercial)

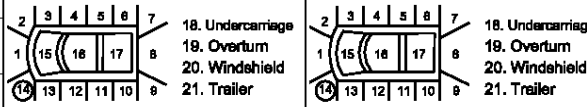
Vehicle 4	Motor Vehicle Type 1 Vehicle in Transport		Hit and Run 1 No		Veh License Number CJCP08		State FL	Reg. Expires 08/Jul/2016	Permanent Reg. No	VIN 1FAHP3J21CL365702	
Year 2012	Make FORD	Model FOCUS	Style 4D	Color BLK	Extent of Damage Disabling	Est. Damage 2500	Towed Due To Damage Yes	Vehicle Removed By ALL AMERICAN		Rotation Rotation	

Insurance Company WINDHAVEN INS CO				Insurance Policy Number WIN01247509								
Name of Vehicle Owner (Check Box If Business) <input type="checkbox"/> LUIS GIMERANES PEREZ				Current Address (Number and Street) 6880 SW 37 ST				City and State MIAMI FL		Zip Code 33155-0000		
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles			
Vehicle Traveling:	Direction North	On Street, Road, Highway US-1 SR5 NB MM 86				At Est. Speed 30	Posted Speed 45	Total Lanes 2				
CMV Configuration				Cargo Body Type		Area of Initial Impact			Most Damaged Area			
Comm GVWR/GCWR				Trailer Type (trailer one)		Trailer Type (trailer two)						
Haz. Mat. Release		Haz Mat. Placard		Number		Class						
Motor Carrier Name				US DOT Number								
Motor Carrier Address				City and State				Zip Code		Phone Number		
Comm/Non-Commercial	Vehicle Body Type 1 Passenger Car			Vehicle Defects (one) 1 None		Vehicle Defects (two)		Emergency Vehicle Use 1 No		Special Function of MV 1 No Special Function		
Vehicle Maneuver Action 1 Straight Ahead		Trafficway 1 Two-Way, Not Divided		Roadway Grade 1 Level		Roadway Alignment 1 Straight		Most Harmful Event 2 Collision with Non-Fixed Object		Most Harmful Event Detail 17 Struck By Falling, Shifting Cargo or Anything Set in Motion by Motor Vehicle		
Traffic Control Device For This Vehicle 1 No Controls		First (1) Sequence of Events 2 Collision with Non-Fixed Object 17 Struck By Falling, Shifting Cargo or Anything Set in Motion by Motor Vehicle			Second (2) Sequence of Events			Third (3) Sequence of Events		Fourth (4) Sequence of Events		

VEHICLE (Check if Commercial)

Vehicle 1	Motor Vehicle Type 1 Vehicle in Transport		Hit and Run 1 No		Veh License Number 443YES		State CT	Reg. Expires 28/Sep/2014	Permanent Reg. No	VIN WAUBFAFL8BN008767	
Year 2011	Make AUDI	Model A4	Style 4D	Color BLK	Extent of Damage Disabling	Est. Damage 15000	Towed Due To Damage Yes	Vehicle Removed By ALL AMERICAN		Rotation Rotation	

Insurance Company NO INSURANCE ON FILE				Insurance Policy Number NO INSURANCE ON FILE							
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Name of Vehicle Owner (Check Box If Business) <input type="checkbox"/>		Current Address (Number and Street)				City and State		Zip Code			
MARK S FENNEY		795 RESEVOIR ROAD				CHESHIRE CT		06410			
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles		
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles		
Vehicle Traveling:	Direction	On Street, Road, Highway				At Est. Speed	Posted Speed	Total Lanes			
	North	US-1 SR5 NB MM 86				45	45	2			
CMV Configuration			Cargo Body Type			Area of Initial Impact			Most Damaged Area		
Comm GVWR/GCWR			Trailer Type (trailer one)			Trailer Type (trailer two)					
Haz. Mat. Release		Haz Mat. Placard		Number		Class					
Motor Carrier Name					US DOT Number						
Motor Carrier Address				City and State			Zip Code		Phone Number		
Comm/Non-Commercial	Vehicle Body Type		Vehicle Defects (one)		Vehicle Defects (two)		Emergency Vehicle Use		Special Function of MV		
	1 Passenger Car		1 None				1 No		1 No Special Function		
Vehicle Maneuver Action		Trafficway		Roadway Grade		Roadway Alignment		Most Harmful Event		Most Harmful Event Detail	
1 Straight Ahead		1 Two-Way, Not Divided		1 Level		1 Straight		2 Collision with Non-Fixed Object		14 Motor Vehicle in Transport	
Traffic Control Device For This Vehicle		First (1) Sequence of Events			Second (2) Sequence of Events			Third (3) Sequence of Events		Fourth (4) Sequence of Events	
1 No Controls		2 Collision with Non-Fixed Object								14 Motor Vehicle in Transport	

PERSON RECORD

Person#	Description	Vehicle #	Name			Date of Birth	Sex	Phone Number	Re-Exam				
1	1 Driver	1	MAGGIE MAE FENNEY			05/Jul/1993	2 Female		No				
Address		City			State		Zip Code						
81210 OLD HWY		ISLAMORADA			FL		33036						
Driver License Number		State	Expires	DL Type	Req. End.	Injury Severity		Ejection					
F500553937450		FL	05/Jul/2021	5 E/Operator	2 No	5 Fatal (within 30 days)		1 Not Ejected					
Restraint System		Air Bag Deployed		Helmet Use		Eye Protection		Seating Location Seat		Seating Location Row	Seating Location Other		
3 Shoulder and Lap Belt Used		3 Deployed-Front				3 Not Applicable		1 Left		1 Front			
Drivers Actions at Time of Crash (first)			Drivers Actions at Time of Crash (second)			Driver Distracted By		Vision Obstruction					
25 Failed to Keep in Proper Lane						88 Unknown		1 Vision Not Obscured					
Drivers Actions at Time of Crash (third)			Drivers Actions at Time of Crash (fourth)			Drivers Condition at Time of Crash							
						1 Apparently Normal							
Suspected Alcohol Use		Alcohol Tested		Alcohol Test Type		Alcohol Test Result		BAC	Suspected Drug Use		Drug Tested	Drug Test Type	Drug Test Result
1 No		1 Test Not Given							1 No		1 Test Not Given		
Source of Transport to Medical Facility			EMS Agency Name or ID			EMS Run Number		Medical Facility Transported To					
2 EMS			TRAUMA STAR			TRAUMA STA		RYDER TRAUMA					

PERSON RECORD

Person#	Description	Vehicle #	Name			Date of Birth	Sex	Phone Number	Re-Exam				
2	1 Driver	2	MARCELINO RESENDIZ-GINES			17/Jul/1966	1 Male		No				
Address		City			State		Zip Code						
760 SW 7 PL		FLORIDA CITY			FL		33034						
Driver License Number		State	Expires	DL Type	Req. End.	Injury Severity		Ejection					
R253540662570		FL	02/Mar/2017	5 E/Operator	2 No	1 None		1 Not Ejected					
Restraint System		Air Bag Deployed		Helmet Use		Eye Protection		Seating Location Seat		Seating Location Row	Seating Location Other		
3 Shoulder and Lap Belt Used		2 Not Deployed				3 Not Applicable		1 Left		1 Front			
Drivers Actions at Time of Crash (first)			Drivers Actions at Time of Crash (second)			Driver Distracted By		Vision Obstruction					
1 No Contributing Action						1 Not Distracted		1 Vision Not Obscured					
Drivers Actions at Time of Crash (third)			Drivers Actions at Time of Crash (fourth)			Drivers Condition at Time of Crash							
						1 Apparently Normal							
Suspected Alcohol Use		Alcohol Tested		Alcohol Test Type		Alcohol Test Result		BAC	Suspected Drug Use		Drug Tested	Drug Test Type	Drug Test Result
1 No		1 Test Not Given							1 No		1 Test Not Given		
Source of Transport to Medical Facility			EMS Agency Name or ID			EMS Run Number		Medical Facility Transported To					
1 Not Transported													

PERSON RECORD

Person#	Description	Vehicle #	Name			Date of Birth	Sex	Phone Number	Re-Exam
8	1 Driver	4	LUIS GIMERANES PEREZ			08/Jul/1973	1 Male		No
Address		City			State		Zip Code		
6880 SW 37TH ST		MIAMI			FL		33155		
Driver License Number		State	Expires	DL Type	Req. End.	Injury Severity		Ejection	
G565520732480		FL	08/Jul/2020	5 E/Operator	2 No	1 None		1 Not Ejected	

Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 2 Not Deployed	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 1 Left	Seating Location Row 1 Front	Seating Location Other		
Drivers Actions at Time of Crash (first) 1 No Contributing Action		Drivers Actions at Time of Crash (second)		Driver Distracted By 1 Not Distracted	Vision Obstruction 1 Vision Not Obscured			
Drivers Actions at Time of Crash (third)		Drivers Actions at Time of Crash (fourth)		Drivers Condition at Time of Crash 1 Apparently Normal				
Suspected Alcohol Use 1 No	Alcohol Tested 1 Test Not Given	Alcohol Test Type	Alcohol Test Result	BAC	Suspected Drug Use 1 No	Drug Tested 1 Test Not Given	Drug Test Type	Drug Test Result
Source of Transport to Medical Facility 1 Not Transported		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To			

PERSON RECORD

Person# 3	Description 1 Driver	Vehicle # 3	Name ROSELIN TOY COXEY	Date of Birth 08/Jan/1959	Sex 2 Female	Phone Number	Re-Exam No	
Address 20 HARBOR LN		City ENGLEWOOD		State FL		Zip Code 34223		
Driver License Number C200738595080		State FL	Expires 08/Jan/2019	DL Type 5 E/Operator	Req. End. 2 No	Injury Severity 3 Non-incapacitating	Ejection 1 Not Ejected	
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 3 Deployed-Front	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 1 Left	Seating Location Row 1 Front	Seating Location Other		
Drivers Actions at Time of Crash (first) 1 No Contributing Action		Drivers Actions at Time of Crash (second)		Driver Distracted By 1 Not Distracted	Vision Obstruction 1 Vision Not Obscured			
Drivers Actions at Time of Crash (third)		Drivers Actions at Time of Crash (fourth)		Drivers Condition at Time of Crash 1 Apparently Normal				
Suspected Alcohol Use 1 No	Alcohol Tested 1 Test Not Given	Alcohol Test Type	Alcohol Test Result	BAC	Suspected Drug Use 1 No	Drug Tested 1 Test Not Given	Drug Test Type	Drug Test Result
Source of Transport to Medical Facility 2 EMS		EMS Agency Name or ID MONROE COUNTY RESCUE		EMS Run Number R19	Medical Facility Transported To MARINER'S HOSPITAL			

PERSON RECORD

Person# 4	Description 3 Passenger	Vehicle # 3	Name ALYSON COXEY	Date of Birth 27/Apr/1999	Sex 2 Female	Injury Severity 3 Non-incapacitating	Ejection 1 Not Ejected
Address 20 HARBOR LANE		City ENGLEWOOD		State FL	Zip Code 34223		
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 3 Deployed-Front	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 1	Seating Location Other	
Source of Transport to Medical Facility 1 Not Transported		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To		

PERSON RECORD

Person# 7	Description 3 Passenger	Vehicle # 3	Name COREY COXEY	Date of Birth 25/Feb/1989	Sex 1 Male	Injury Severity 1 None	Ejection 1 Not Ejected
Address 20 HARBOR LN		City ENGLEWOOD		State FL	Zip Code 34223		
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 2 Not Deployed	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 3	Seating Location Other	
Source of Transport to Medical Facility 1 Not Transported		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To		

PERSON RECORD

Person# 5	Description 3 Passenger	Vehicle # 3	Name ARIANA COXEY	Date of Birth 08/Jul/2014	Sex 2 Female	Injury Severity 1 None	Ejection 1 Not Ejected
Address 20 HARBOR LN		City ENGLEWOOD		State FL	Zip Code 34223		
Restraint System 7 Child Restraint System -Forward Facing	Air Bag Deployed 2 Not Deployed	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 1	Seating Location Row 2	Seating Location Other	
Source of Transport to Medical Facility 1 Not Transported		EMS Agency Name or ID		EMS Run Number	Medical Facility Transported To		

PERSON RECORD

Person# 6	Description 3 Passenger	Vehicle # 3	Name KRISTINA SOLOMON	Date of Birth 03/Dec/1991	Sex 2 Female	Injury Severity 3 Non-incapacitating	Ejection 1 Not Ejected
Address 20 HARBOR LN		City ENGLEWOOD		State FL	Zip Code 34223		

Date of Report 27/Jun/2016 07:52 PM	Date of Report 27/Jun/2016 07:52 PM	Investigative Agency Report Number FHPE16OFF038963	HSMV Crash Report Number 85285382			
Restraint System 3 Shoulder and Lap Belt Used	Air Bag Deployed 2 Not Deployed	Helmet Use	Eye Protection 3 Not Applicable	Seating Location Seat 3	Seating Location Row 2	Seating Location Other
Source of Transport to Medical Facility 2 EMS	EMS Agency Name or ID MONROE COUNTY RESCUE	EMS Run Number R19	Medical Facility Transported To MARINER'S HOSPITAL			

NON VEHICLE PROPERTY DAMAGE

Vehicle#	Person#	Property Damage - Other Than Vehicle GUARD RAIL	Est. Amount 3500	Business Yes	Owner's Name ICA/FDOT	Address 3100 OVERSEAS HWY	City & State MARATHON FL	Zip Code 33050
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NARRATIVE

ID Number **Rank** **Name** **Troop / Post** **Officer Agency** **Phone Number** **Date Created**
 3519 TROOPER J. CORELL E FLORIDA HIGHWAY PATROL 305-470-2500 Jun 28, 2016

V-1 was travelling north on US-1 at the 86 Mile Marker in Islamorada, Monroe County. Witnesses stated that V-1 kept crossing the center double yellow line multiple times. V-2 was travelling south approaching the same location. V-4 and V-3 were both travelling north behind V-1. V-1 drifted left of center and struck V-2 s left front with its left front left corner. This impact caused V-1 s rear to rotate in a counter clockwise motion back onto the northbound lane. V-1 had come to final rest on the northbound lane facing south. V-4 could not avoid striking the debris field as it was travelling north and then came to final rest on the northbound lane facing north. V-2 continued to travel in a southerly direction, but because its front left tire had been damaged, it was forced across the northbound lane and in front of V-3 s path of travel. V-3 veered to the right and onto the northbound solid white line. V-2 then struck V-3 s left front area. This impact then forced both vehicles up against the guardrail. They both came to final rest at this location and up against each other and the guardrail. Driver 1 of Vehicle 1 was air lifted to Ryder Trauma in critical condition. Both Northbound and Southbound lanes of US-1 were closed for approximately 3 hours. Traffic was diverted through the weigh station.

On Wednesday, 06/29/2016, at 2:29 PM, Maggie Mae Fenney (D.O.B. 07/05/1993), was pronounced deceased at Ryder Trauma by Doctor Amedeo Merenda and Doctor Johnathan Jagid.

Notification of Kin was made to Joanna Fenney (Mother of D-1) and Mark Fenney (Father of D-1) on Wednesday, 06/29/2016, at 2:29 PM by Doctor Amedeo Merenda and Doctor Johnathan Jagid.

On scene photographs taken by Corporal David N. Riso

Traffic Homicide Investigative case number is FHP-716-38-011.

Traffic Homicide Investigator is Corporal David N. Riso (2088/844)

ID Number **Rank** **Name** **Troop / Post** **Officer Agency** **Phone Number** **Date Created**
 2088 CORPORAL D. N. RISO E FLORIDA HIGHWAY PATROL 305-470-2500 Jul 15, 2016

Crash report was amended.

ID Number **Rank** **Name** **Troop / Post** **Officer Agency** **Phone Number** **Date Created**
 2088 CORPORAL D. N. RISO E FLORIDA HIGHWAY PATROL 305-470-2500 Jul 21, 2016

Information updated in report.

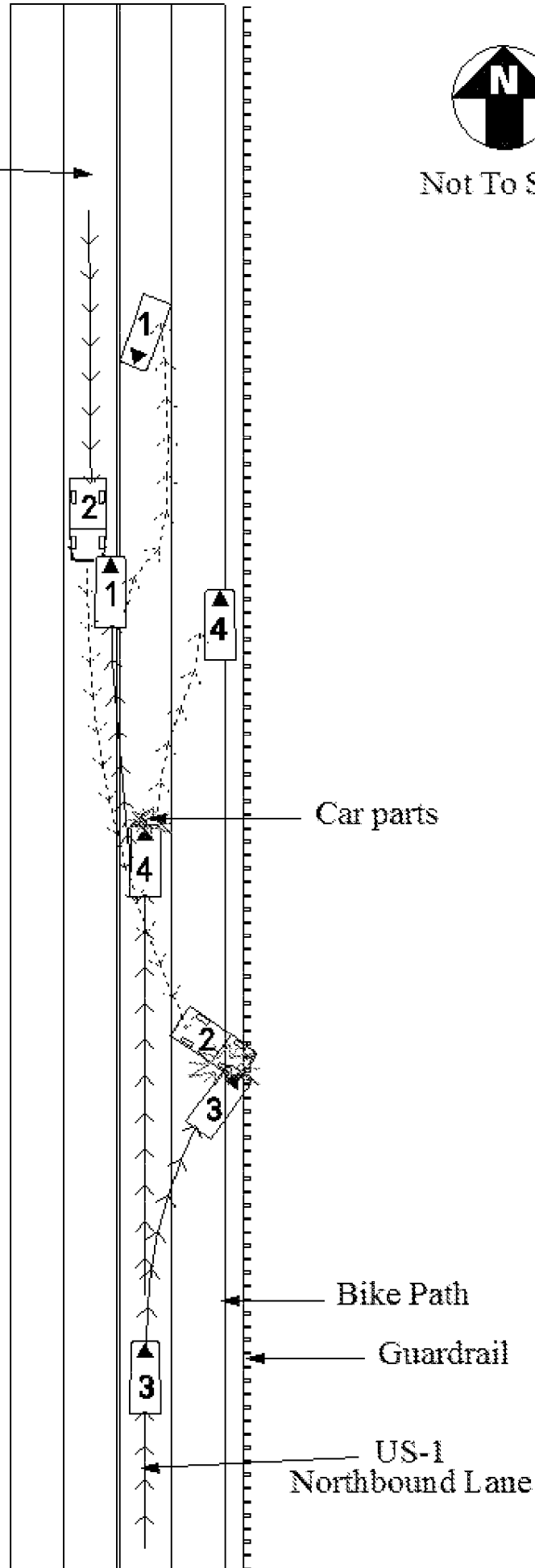
REPORTING OFFICER

ID/Badge # 2088	Rank and Name CORPORAL D. N. RISO	Department FLORIDA HIGHWAY PATROL	Type of Department FHP
--------------------	--------------------------------------	--------------------------------------	---------------------------

US-1
Southbound Lane



Not To Scale



Car parts

Bike Path

Guardrail

US-1
Northbound Lane

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          CCCCCCCCCC      AAAAAAAAAA      RRRRRRRRRR
        CCCCCCCCCC      AAAAAAAAAAAA      RRRRRRRRRRRR
       CCC             AAA      AAA      RRR      RRR
      CCC             AAA      AAA      RRR      RRR
     CCC             AAAAAAAAAA      RRRRRRRRRRRR
    CCC             AAAAAAAAAAAA      RRRRRRRRRRRR
   CCC             AAA      AAA      RRR      RRR
  CCC             AAA      AAA      RRR      RRR
 CCCCCCCCCC      AAA      AAA      RRR      RRRR
CCCCCCCCCCCC      AAA      AAA      RRR      RRRRRR

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C R A S H R E P O R T I N G S Y S T E M

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

```

I/O NAME: ..... CARI113
PROGRAM ID: ..... CARPJ13
REPORT NUMBER: ..... 01
RUN CLASS: ..... A
MESSAGE CLASS: ..... Q
PRINTER DEST: ..... LOCAL
# COPIES: ..... 01
ACCOUNT #: ..... 5565945
SUBMIT W/HOLD? ..... N
USERID: ..... KNKAIBP
DETAIL SORT ORDER: ..... 1 - SORT BY ROADWAY, MILE POINT
PRINT SEGMENTS? ..... N
PRINT INTERSECTIONS? ..... N
SUMMARY FORMAT: ..... -
OVERRIDE VALUES:
MAX # OF BREAKS: ..... 0
CRASH RATE CATEGORY: ...
AVERAGE DAILY TRAFFIC:..
# OF LEGS: .....

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REPORT...CARPJ13-01
DATE...12/12/2016
TIME...15:01:57

FLORIDA - DEPARTMENT OF TRANSPORTATION
C A R - CRASH ANALYSIS REPORTING SYSTEM
CRASH DATA (IN 2010 AND EARLIER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 1
USERID: KNKAIBP
I/O.... CARO213

COMMENT:

1 - SORT BY ROADWAY, MILE POINT

FROM: 01/01/2010 TO 12/31/2010 RAMP INCL
FROM CO/SEC/SUB: 90 060 000 MP: 012.216 INFL INCL
TO CO/SEC/SUB: 90 060 000 MP: 012.416 CR/OS INCL

C	R	A	S	M	H	B	E	R	Y	M	D	H	CRCC	A	H	L	W	R	T	R	SL	R	A	V	V	VM	V	PI	CC	D	V	V	V	V	PI	CC	D	#	#	N
R	N	C	S	S	I	EN	TR	VAR	E	O	A	O	RALA	L	AE	I	E	D	RC	OC	IO	O	C	ET	EU	EO	E	OM	OA	RA	ET	EU	EM	E	OM	OA	RA			UI
A	U	O	E	E	L	AO	AO	EIA	A	N	Y	U	ATAT	C	RV	G	A	AO	AO	TC	A	C	HY	HS	HV	H	IP	NU	IG	HY	HS	HO	H	IP	NU	IG	V	K	MN	
S	M	U	C	SC	E	RD	TA	RLF	R	T		R	SESE		ME	H	T	S	FN	DN	EA	D	IP	IE	IM		NA	TS	VE	IP	IE	IV		NA	TS	VE	E	I	BJ	
H	B	N	T	UT	P	EE	ED	AYF		H			H	SG	I	FN	T	H	U	FT	D	T	L	CE	C	CN	D	TC	RE	/	CE	C	C	D	TC	RE	/	H	L	EU
E		T	I	BI	O	S		G	I				O	N	UT	I	E	R	IR	T	I	S	N	L	L1	LT	I	T	I	P1	L	L2	L2	I	T	I	P2	C	L	RR
R		Y	O	O	S	T		E	C				R	V	L	N	R	F	CO	N	O	D	E1	E	E	R	O	B1	E	E2	E	E	R	O	B2	E	L	E	E	
		N	N	T									Y		1	G			L	S	N	#			1	1	F1	D			2	F2			D	S	D	D		

769469360	90060000	12.416	0613		5	019800	10	06	10	13	S-2UN	0	01	1	1	1	03	01	01	L	1	03	01	01	S	01	02	59	03	01	02	S	08	00	70	2	0	01		

REPORT...CARPJ13-01
 DATE...12/12/2016
 TIME...15:01:57

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2010 AND EARLIER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 2
 USERID: KNKAIBP
 I/O.... CARI113

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
 FROM: 01/01/2010 TO 12/31/2010
 FROM CO/SEC/SUB: 90 060 000
 TO CO/SEC/SUB: 90 060 000
 MP: 012.216
 MP: 012.416
 RAMPS INCL
 INFL INCL
 CR/OS INCL

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2010	0	0	0	1	1	0	1	0	1	0	0
TOTAL	0	0	0	1	1	0	1	0	1	0	0

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

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          CCCCCCCCCC      AAAAAAAAAA      RRRRRRRRRR
        CCCCCCCCCC      AAAAAAAAAA      RRRRRRRRRR
       CCC           AAA   AAA           RRR   RRR
      CCC           AAA   AAA           RRR   RRR
     CCC           AAAAAAAAAA      RRRRRRRRRRRR
    CCC           AAAAAAAAAA      RRRRRRRRRRRR
   CCC           AAA   AAA           RRR   RRR
  CCC           AAA   AAA           RRR   RRR
 CCCCCCCCCC      AAA   AAA           RRR   RRRR
 CCCCCCCCCC      AAA   AAA           RRR   RRRRR

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C R A S H R E P O R T I N G S Y S T E M

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

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I/O NAME: ..... CARI122
PROGRAM ID: ..... CARPJ122
REPORT NUMBER: ..... 01
RUN CLASS: ..... A
MESSAGE CLASS: ..... Q
PRINTER DEST: ..... LOCAL
# COPIES: ..... 01
ACCOUNT #: ..... 5565945
SUBMIT W/HOLD? ..... N
USERID: ..... KNKAIBP
DETAIL SORT ORDER: ..... 1 - SORT BY ROADWAY, MILE POINT
PRINT SEGMENTS? ..... N
PRINT INTERSECTIONS? ..... N
SUMMARY FORMAT: ..... 2 - TOP LINE ALL BREAKS
OVERRIDE VALUES:
MAX # OF BREAKS: ..... 06
CRASH RATE CATEGORY: ...
AVERAGE DAILY TRAFFIC:..
# OF LEGS: .....

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REPORT...CARPJ122-01
DATE...12/08/2016
TIME...14:45:48

FLORIDA - DEPARTMENT OF TRANSPORTATION
C A R - CRASH ANALYSIS REPORTING SYSTEM
CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 1
USERID: KNKAIBP
I/O.... CARO213

COMMENT:

1 - SORT BY ROADWAY, MILE POINT

FROM: 01/01/2011 TO 12/31/2014 RAMP INCL
FROM CO/SEC/SUB: 90 060 000 MP: 012.216 INFL INCL
TO CO/SEC/SUB: 90 060 000 MP: 012.416 CR/OS INCL

C	ROADWYID	M	N	S	ADT	Y	M	D	H	CRCC	A	H	MO	L	W	R	R	DL	R	A	V	V	VF	VM	VA	V	V	V	VN	VN	N	V	#	#	#					
R	N	C	S	S	I	EN	TR	VAR	E	O	A	O	RALA	L	AE	AF	IC	EC	D	OC	OO	O	C	1	1	1U	1A	1C	1A	2	2N	2N	2M	2M	M	2N				
A	U	O	E	E	L	AO	AO	EIA	A	N	Y	U	ATAT	C	RV	N	GO	AO	AO	TC	A	C		N	N	T	G		M	M					M	V	K	I		
S	M	U	C	SC	E	RD	TA	RLF	R	T		R	SESE	ME	NC	HN	TN	S	DN	A	D		D	B	SC	E	DI	DE	D	B	F	MP	AA	A	D	E	I	N		
H	B	N	T	UT	P	EE	ED	AYF		H		H	SG	I	FN	EO	TD	HD	U	D	ST		L	I	OT	P	U	RO	R	I	OD	UL	NR	CC	C	R	A	H	L	J
E		T	I	BI	O	S		G	I			O	N	UT	RL	IT	ET	R	T	II	S	N	R	DY	E	V	IN	I	R	DE	NO	VI	TT	T	A	G	C	L	U	
R		Y	O	O	S	T		E	C			R	V	L	L	NN	RN	F	N	TO	D		Y	P	C	E	V	V	/	S	CC	RO	1N	N	G	E	L	E	R	
		N	N	T				Y				1	GS	S		S	EN	#					E	R	R	1	R	C	/	/	R	/	1	2	E	S	D	D		

831525580	90060000	12.216	0367		5	019300	13	02	28	15	S-2DP	0	11	77	01	01	01	01	02	L	S	N	03	01	03	03	56	*	03	01	03	01	00	53	1	0	01			
831967630	90060000	12.216	0367		5	019300	13	05	28	15	S-2DP	0	14	03	01	02	02	01	02	L	1	E	16	01	03	03	46	S	16	01	01	01		69	2	0	00			
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821857650	90060000	12.218	0367		5	021500	11	05	28	00	S-2DP	0	34	77	88	01	01	88	02	L	S	N	00	01	88		00										1	0	00	
820662230	90060000	12.229	0367		5	021500	11	03	07	15	S-2DP	0	14	01	01	01	01	01	01	L	1	S	01	01	01	02	21	S	01	01	01	01		58	3	0	00			
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831581780	90060000	12.240	0367		5	019300	13	02	22	12	S-2DP	0	14	03	01	01	01	01	02	R	R	E	01	01	01	03	23	N	03	01	01	01		32	2	0	01			
820826910	90060000	12.254	0367		5	019300	13	06	04	11	S-2DP	0	14	01	01	02	02	01	03	L	1	S	02	01	01	77	52	S	03	01	01	01		70	2	0	00			
836995800	90060000	12.254	0367		5	025500	14	03	08	09	S-2DP	0	14	01	01	01	01	01	01	L	1	S	16	01	01	02	19	S	16	01	13	01		78	3	0	00			
828356320	90060000	12.263	0367		5	019900	12	08	18	15	S-2DP	0	37	77	01	01	01	01	01	L	S	N	02	01	10	06	44	S	02	07	01	01		43	2	0	01			
837046870	90060000	12.273	0367		5	025500	14	05	04	01	S-2DP	0	14	03	04	02	01	01	01	R	A	N	16	01	10	06	36	N	16	01	01	01		40	2	0	01			
820326360	90060000	12.311	0367		5	021500	11	02	13	10	S-2UN	1	14	01	01	01	01	01	01	L	1	S	01	01	01	02	51	S	16	01	01	01		64	2	0	03			
832911710	90060000	12.311	0367		5	019300	13	07	26	08	S-2UN	0	14	01	01	01	01	01	01	R	1	N	02	01	01	02	42	N	16	01	01	01		54	2	0	00			
845351250	90060000	12.311	0367		5	025500	14	12	08	15	S-2UN	0	14	01	01	02	01	01	01	L	1	S	16	01	01	02	66	S	01	01	13	01		53	2	0	03			
820326560	90060000	12.316	0367		5	021500	11	05	19	09	S-2UN	0	14	01	01	01	01	01	01	L	1	S	01	01	01	02	31	S	01	01	13	01		51	2	0	00			
837684730	90060000	12.366	0613		5	025500	14	04	26	13	S-2UN	0	14	01	01	01	01	01	01	R	1	N	03	01	01	02	57	N	03	01	13	01		44	2	0	01			
836801710	90060000	12.405	0613		5	025500	14	03	25	16	S-2UN	1	14	02	01	02	01	01	06	R	1	S	01	01	01	02	30	N	16	01	01	01		30	2	0	04			
832911450	90060000	12.416	0613		5	019300	13	05	02	11	S-2UN	0	14	03	01	01	01	01	01	R	1	N	02	01	03	06	65	N	16	01	01	01		46	2	0	00			
832911510	90060000	12.416	0613		5	019300	13	05	13	11	S-2UN	0	14	01	01	01	01	01	01	L	1	S	02	01	14	02	49	S	02	01	01	01		75	2	0	00			

REPORT...CARPJ122-01
 DATE...12/08/2016
 TIME...14:45:48

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 2
 USERID: KNKAIBP
 I/O.... CARI122

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
 FROM: 01/01/2011 TO 12/31/2014
 FROM CO/SEC/SUB: 90 060 000
 TO CO/SEC/SUB: 90 060 000
 MP: 012.216
 MP: 012.416
 RAMPS INCL
 INFL INCL
 CR/OS INCL

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2011	0	0	0	1	3	3	4	0	3	0	0
2012	0	0	0	1	1	0	1	0	1	0	0
2013	0	0	0	2	2	8	10	0	2	0	0
2014	0	0	0	4	9	5	9	0	9	0	0
TOTAL	0	0	0	8	15	16	24	0	15	0	0

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

DISPOSITION OF FATAL CRASH**DISTRICT SIX INITIAL REVIEW**

- Relevant Studies/CTPs
- Relevant Programmed Projects

FM 443207-1

 CRASH NARRATIVE

Based on a review of the police report, the subject crash was a fixed object crash that occurred on SR 5/US 1/Overseas Highway (southbound) at Mile Marker (MM) 86 (miscoded as 200 feet north of MM 86). The fatal crash occurred on Monday, November 11, 2019 at 3:40 PM (Daylight), under dry pavement and clear weather conditions. According to the police report, vehicle 1 was southbound on SR 5. Vehicle 1 traveled off the roadway onto the shoulder, where vehicle 1 collided with a guardrail. Vehicle 1 then continued in motion and collided with a tree. A passenger of vehicle 1 was pronounced deceased at the hospital on Monday, November 11, 2019 at 4:20 PM.

 CRASH DATA REVIEW (crash summary sheets attached)

The crash data for the five most recent years (from January 2013 to December 2017), within the influence area of SR 5 (SB) at MM) 86, was downloaded from the FDOT's Crash Analysis Reporting System (CARS). Based on the crash data, a total of 32 crashes were documented within the study segment (MP 12.172 to MP 12.276) with seven (7) crashes in 2013, four (4) crashes in 2014, seven (7) crashes in 2015, and seven (7) crashes in 2016, and seven (7) crashes were reported in 2017. One (1) fixed object crash was reported, which is the crash type associated with the subject fatality. Based on the review of the police report, the fixed object crash did not occur within the study segment. No fatal crashes were reported. None of the confidence levels were applicable as there were fewer than eight (8) crashes in each year. The study segment is included in the 2017 High Crash List provided by the Department.

The predominant crash types was rear end with 15 crashes (46.9 percent), followed by angle with nine (9) crashes (28.1 percent), and sideswipe with five (5) crashes (15.6 percent).

Expected Value Analysis (EVA) was not performed as EVA is not applicable for segments. Four (4) crashes (12.5 percent) occurred during night/dusk/dawn lighting conditions, which is lower than the districtwide average for all roadways of 30 percent. Four (4) crashes (12.5 percent) occurred under wet/slippery pavement conditions, which is lower than the districtwide average for all roadways of 15 percent.

 OFFICE-BASED REVIEW NOTES

A review was performed using Google Earth aeriels/street views. Based on this review, SR 5 is a two-lane, two-way road with a posted speed limit of 45 Miles Per Hour (MPH). Street lighting is not provided for this roadway; however, street lights are provided for the weigh station located on the east side of SR 5. Concrete barrier wall and guardrail are provided along the east side and guardrail is provided for a portion of the west side of SR 5. A review of the recent Skid Hazard Report indicates that the Friction Numbers along the southbound travel lanes of the SR 5 study segment is 39; however, no Friction Number is provided for the northbound travel lanes of the SR 5 study segment.

Per FM 443207-1 (no letting date; adopted, not begun), the programmed improvements include modification of traffic signs along SR 5, from MM 84.06 to MM 112.49 due to the damages from Hurricane Irma (Executive order for State of Emergency was declared on 09/04/2017).

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

LOCATION MAP

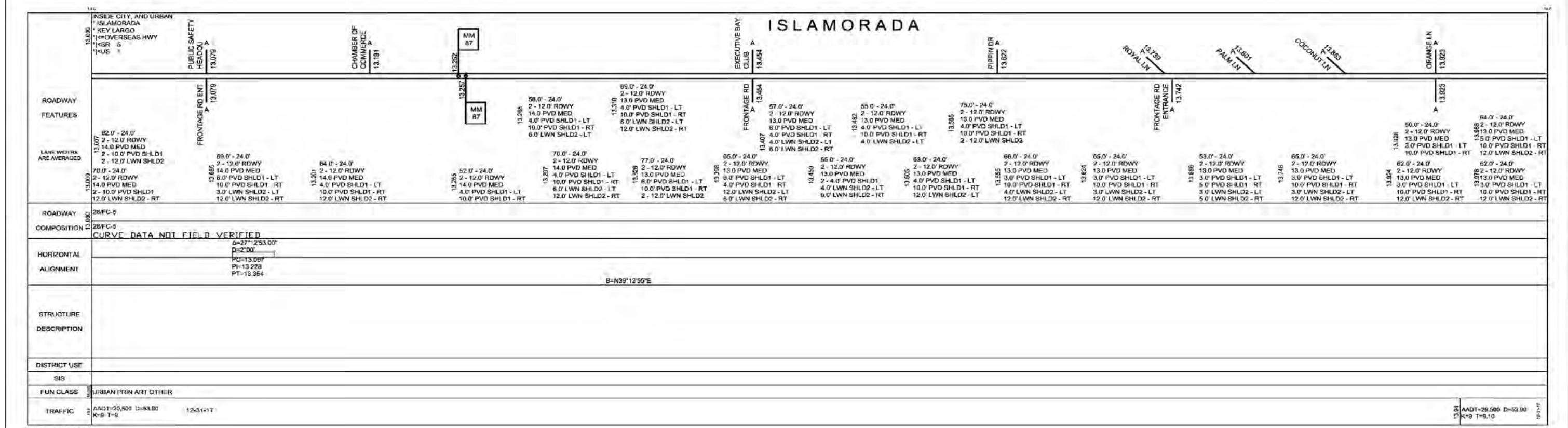
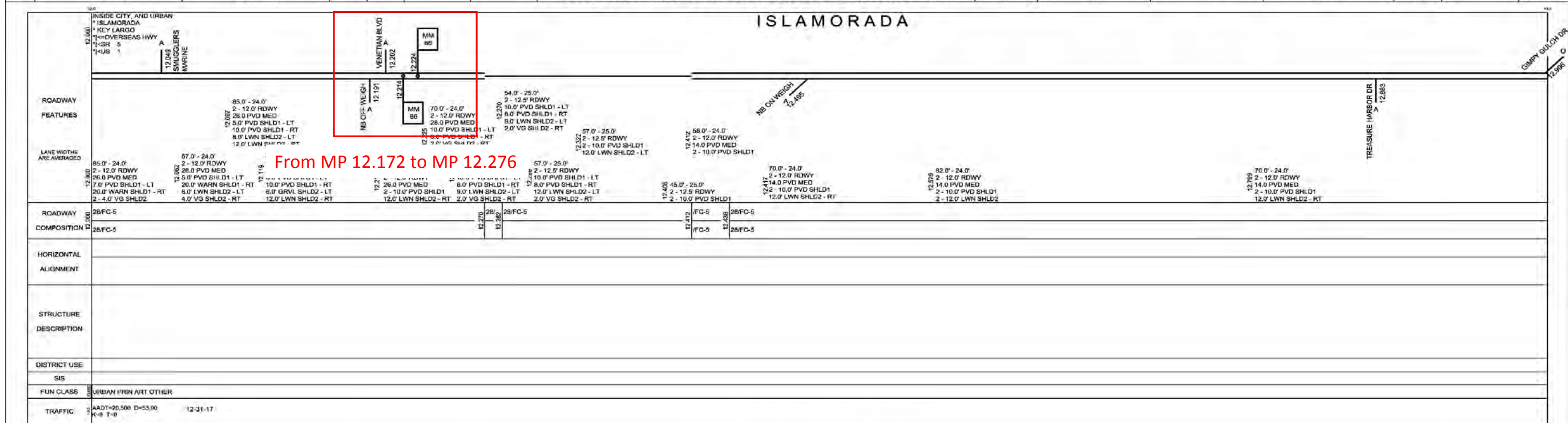
LOCATION ID	SR 5/US 1/OVERSEAS HWY (SB) AT MILE MARKER (MM) 86				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.172	END MILEPOST	12.276	PREPARED BY	McMahon



CRASH SUMMARY (5 YEAR TOTALS)

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
19	13	0	32	4	4

5 YR INV	SLD REV	BMP	EMP	INV	SLD REV	FLORIDA DEPARTMENT OF TRANSPORTATION FDOT	SECTION STATUS	INT. OF US ROUTE NO.	STATE ROAD NO.	COUNTY	DISTRICT	ROADWAY ID	SHEET NO.
07/16/2018	07/23/2018	000,000	038,777	Clas Engineering	08/03/2018	FLORIDA DEPARTMENT OF TRANSPORTATION FDOT	02	US 1	SR 5	MONROE	06	90060000	7 OF 20
By: Clas Engineering	Clas Engineering												



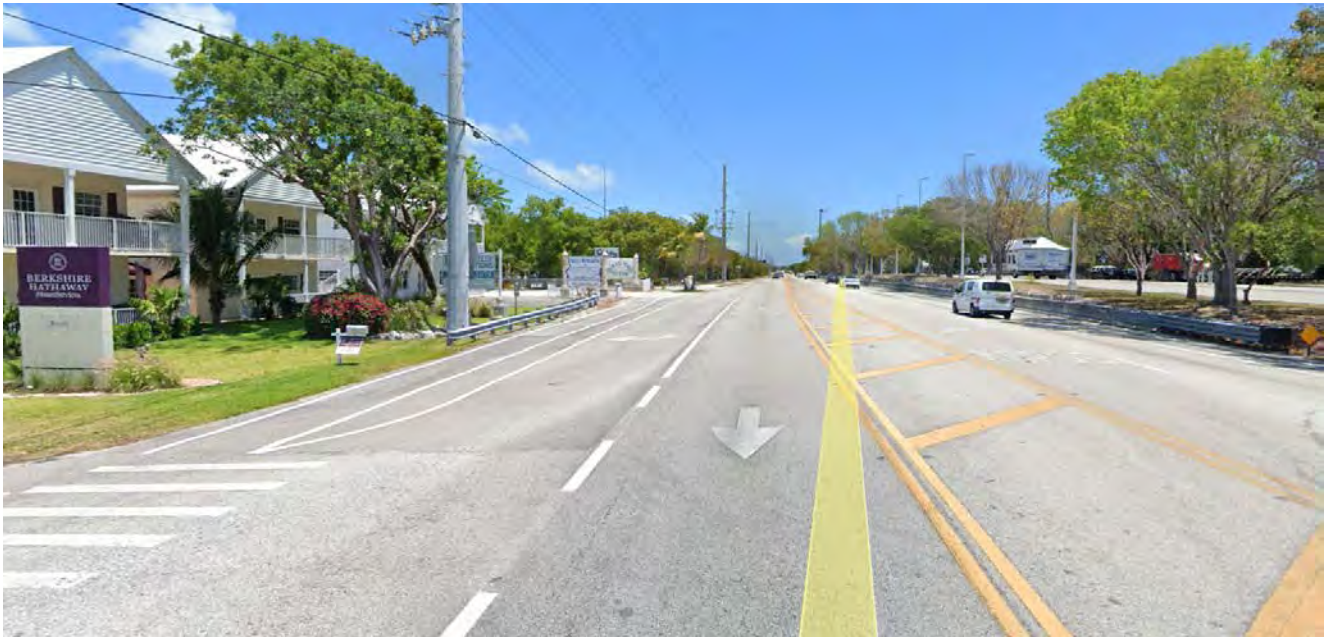
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

STREET VIEW IMAGES

LOCATION ID	SR 5/US 1/OVERSEAS HWY (SB) AT MILE MARKER (MM) 86				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.172	END MILEPOST	12.276	PREPARED BY	McMahon



Looking south on SR 5 in the vicinity of the subject crash

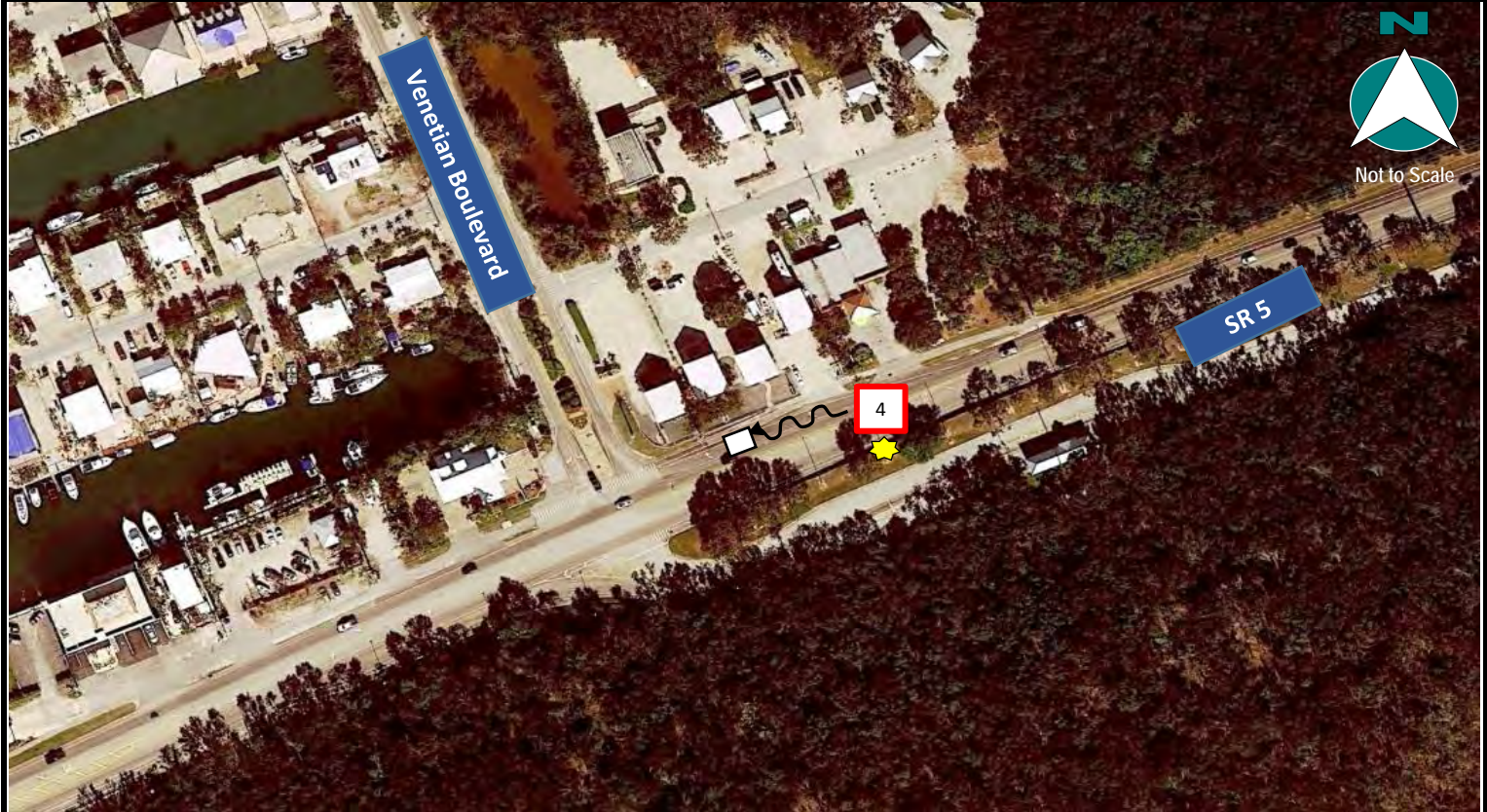


Looking north on SR 5 in the vicinity of the subject crash

COLLISION DIAGRAM

LOCATION ID	SR 5/US 1/OVERSEAS HWY (SB) AT MILE MARKER (MM) 86				
COUNTY	Monroe		SECTION	90060000	
BEGIN MILEPOST	12.172	END MILEPOST	12.276	PREPARED BY	McMahon

Note: 1) Based on the subject crash type, only fixed object crashes were plotted in the collision diagram. 2) The police reports for all crashes plotted were reviewed.



CRASH SUMMARY (5 YEAR TOTALS); DOES NOT INCLUDE FATAL IN 2019

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
19	13	0	32	4	4

COLLISION DIAGRAM ONLY (5 YEAR TOTALS); DOES NOT INCLUDE FATAL IN 2019

PDO	INJURY CRASHES	FATAL CRASHES	TOTAL	NIGHT CRASHES	WET CRASHES
0	0	0	0	0	0

LEGEND

Fatal Crash No. XX	Crash No. XX	Rear End		Fixed Object		
Sideswipe	Left Turn	Coll. w/ Bicycle		Angle		
2013 Crash 	2014 Crash 	2015 Crash 	2016 Crash 	2017 Crash 	Subject Fatal Crash 	

LOCATION INFORMATION CONFIDENCE LEVEL COMPUTATIONS

Location:	SR 5/US 1/OVERSEAS HWY (SB) AT MILE MARKER (MM) 86			
State Section:	90060000	County: Monroe		
State Road:	5	District: 6		
Roadway Limits:	MP	12.224		
Engineer:	FDOT D6			
Area Type:	Urban			
Spot/Segment:	Segment			
Spot Type:	2-3Ln 2Wy Divd Pavd			
Begin Milepost:	12.172	Input Radius	275	ft
End Milepost:	12.276			
Begin Year:	2013			
End Year:	2017			
Number of Years:	5			

CRASH STATISTICS

Year	2013	2014	2015	2016	2017
Number of Crashes	7	4	7	7	7
Average Daily Traffic (ADT)	19,300	25,500	27,500	22,000	20,500
Actual Crash Rate (ACR)	9.539	4.126	6.695	8.369	8.981
District 6 Average Crash Rate (A)	8.440	10.242	13.683	13.003	16.135
Average Vehicle Exposure (M)	0.734	0.970	1.046	0.836	0.779
Critical Crash Rate (CCR)	18.919	20.422	25.110	25.381	30.466
Safety Ratio	0.504	0.202	0.267	0.330	0.295
Statistical Significance	0.525	-1.723	-1.800	-1.024	-1.431
Confidence Level	50.00%	50.00%	50.00%	50.00%	50.00%

ADT – Average Daily Traffic

ACR – Actual Crash Rate = No. of crashes in a year / Average Vehicle Exposure (M)

M – Average Vehicle Exposure (million vehicles or million vehicles miles) = [(ADT * 365 * L) / 1,000,000]

L = Length of the Segment for Segment Analysis, 1 for Spot Analysis

A – Average Crash Rate

CCR – Critical Crash Rate = $A + K * (\text{SQRT}[A/M]) - (1/[2 * M])$

(Ref: FDOT Highway Safety Improvement Program Guidelines)

K = 3.291 for Urban, 1.960 for Suburban, 1.645 for Rural K = 3.291

Safety Ratio = ACR/CCR

Level of statistical significance = $(\text{ACR} - A + (1/2M))/\text{SQRT}(A/M)$

Confidence Level = Percent probability that the crash rate is abnormally high for the location under study, using the district-wide average as a benchmark. Threshold = 99.95%



FDOT DISTRICT 6 EXPECTED VALUES ANALYSIS

SR 5/US 1/OVERSEAS HWY (SB) AT MILE MARKER (MM) 86 Segment/Spot with No Expected Values Available		Number of Crashes					5 Year Total Crashes	Mean Crashes Per Year	%	Expected Annual Crash Value		90 %ile	95 %ile
		Year								Abnormally High Crashes per year			
		2013	2014	2015	2016	2017				90th percentile	95th percentile		
CRASH TYPE	Rear End	2	1	3	5	4	15	3.00	46.9%	0.00	0.00		
	Head On	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Angle	2	2	2	1	2	9	1.80	28.1%	0.00	0.00		
	Left Turn	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Right Turn	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Sideswipe	1	1	1	1	1	5	1.00	15.6%	0.00	0.00		
	Backed Into	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Pedestrian	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Bicycle	2	0	0	0	0	2	0.40	6.3%	0.00	0.00		
	Fixed Object	0	0	1	0	0	1	0.20	3.1%	0.00	0.00		
	Other Non-Collisions	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Overturn/Rollover	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
Others	0	0	0	0	0	0	0.00	0.0%	0.00	0.00			
	Total Crashes	7	4	7	7	7	32	6.40	100.0%	0.00	0.00		
SEVERITY	PDO Crashes	3	3	5	4	4	19	3.80	59.4%	0.00	0.00		
	Fatal Crashes	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Injury Crashes	4	1	2	3	3	13	2.60	40.6%	0.00	0.00		
LIGHTING CONDITIONS	Daylight	6	3	6	7	6	28	5.60	87.5%	0.00	0.00		
	Dusk	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	Dawn	0	0	0	0	1	1	0.20	3.1%	0.00	0.00		
	Dark	1	1	1	0	0	3	0.60	9.4%	0.00	0.00		
	Unknown	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
SURFACE CONDITIONS	Dry	4	4	6	7	7	28	5.60	87.5%	0.00	0.00		
	Wet	3	0	1	0	0	4	0.80	12.5%	0.00	0.00		
	Others	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
MONTH OF YEAR	January	2	0	0	1	0	3	0.60	9.4%	0.00	0.00		
	February	1	0	2	1	0	4	0.80	12.5%	0.00	0.00		
	March	0	1	2	2	1	6	1.20	18.8%	0.00	0.00		
	April	1	1	0	0	0	2	0.40	6.3%	0.00	0.00		
	May	2	1	0	0	0	3	0.60	9.4%	0.00	0.00		
	June	1	0	0	1	1	3	0.60	9.4%	0.00	0.00		
	July	0	0	1	1	0	2	0.40	6.3%	0.00	0.00		
	August	0	0	0	0	0	0	0.00	0.0%	0.00	0.00		
	September	0	1	0	0	1	2	0.40	6.3%	0.00	0.00		
	October	0	0	0	0	1	1	0.20	3.1%	0.00	0.00		
	November	0	0	1	1	0	2	0.40	6.3%	0.00	0.00		
	December	0	0	1	0	3	4	0.80	12.5%	0.00	0.00		
DAY OF WEEK	Monday	1	0	3	1	2	7	1.40	21.9%	0.00	0.00		
	Tuesday	2	0	0	1	0	3	0.60	9.4%	0.00	0.00		
	Wednesday	1	0	0	0	2	3	0.60	9.4%	0.00	0.00		
	Thursday	2	1	1	0	1	5	1.00	15.6%	0.00	0.00		
	Friday	1	0	0	2	0	3	0.60	9.4%	0.00	0.00		
	Saturday	0	1	3	2	2	8	1.60	25.0%	0.00	0.00		
	Sunday	0	2	0	1	0	3	0.60	9.4%	0.00	0.00		
HOUR OF DAY	00:00-06:00	0	1	0	0	0	1	0.20	3.1%	0.00	0.00		
	06:00-09:00	0	0	0	0	1	1	0.20	3.1%	0.00	0.00		
	09:00-11:00	1	1	1	2	0	5	1.00	15.6%	0.00	0.00		
	11:00-13:00	1	1	2	1	1	6	1.20	18.8%	0.00	0.00		
	13:00-15:00	0	0	1	2	1	4	0.80	12.5%	0.00	0.00		
	15:00-18:00	4	1	1	2	4	12	2.40	37.5%	0.00	0.00		
	18:00-24:00	1	0	2	0	0	3	0.60	9.4%	0.00	0.00		

State of Florida Department of Transportation															
CRASH SUMMARY															
SECTION:		90060000					STATE ROUTE:		5						
ROADWAY LIMITS:		MP					M.P. 12.172		TO 12.276		ENGINEER: FDOT D6				
STUDY PERIOD:		FROM 1/ 2013					TO 12/ 2013		COUNTY: Monroe						
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	12.224	01/09/13	Wed	1548	Rear-End			0	2	0	Day	Dry	Careless or Negligent Manner		
2	12.214	01/18/13	Fri	1538	Pedalcycle			0	0	1	Day	Dry	No Contributing Action		
3	12.202	02/28/13	Thu	1546	Pedalcycle			0	1	0	Day	Dry	Failed to Yield Right-Of-Way		
4	12.233	04/22/13	Mon	1004	Sideswipe			0	2	0	Day	Dry	Careless or Negligent Manner		
5	12.224	05/02/13	Thu	2023	Angle			0	1	0	Night	Wet	Failed to Yield Right-Of-Way		
6	12.202	05/28/13	Tue	1517	Angle			0	0	1	Day	Wet	Failed to Yield Right-Of-Way		
7	12.240	06/04/13	Tue	1130	Rear-End			0	0	1	Day	Wet	Other Contributing Action		
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
7	0	4	3	2	0	2	0	0	1	0	2	0	0	0	0
Percent	0.00%	57.14%	42.86%	28.57%	0.00%	28.57%	0.00%	0.00%	14.29%	0.00%	28.57%	0.00%	0.00%	0.00%	0.00%
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way
Total	6	1	3	4	2	3	0	0	0	0	0	0	0	0	0
Percent	85.71%	14.29%	42.86%	57.14%	28.57%	42.86%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 19,300								SEGMENT CRASH RATE: 9.539 CRASHES PER MILLION VEHICLE MILES							

State of Florida Department of Transportation CRASH SUMMARY																
SECTION:		90060000										STATE ROUTE: 5				
ROADWAY LIMITS:		MP					M.P. 12.172		TO 12.276		ENGINEER: FDOT D6					
STUDY PERIOD:		FROM 1/ 2014				TO 12/ 2014				COUNTY: Monroe						
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE				FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	12.240	03/08/14	Sat	0900	Rear-End				0	0	1	Day	Dry	Careless or Negligent Manner		
2	12.202	04/10/14	Thu	1530	Angle				0	0	1	Day	Dry	Failed to Yield Right-Of-Way		
3	12.259	05/04/14	Sun	0135	Angle				0	1	0	Night	Dry	Improper Turn		
4	12.221	09/28/14	Sun	1240	Sideswipe				0	0	1	Day	Dry	Failed to Yield Right-Of-Way		
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other	
4	0	1	3	1	0	2	0	0	1	0	0	0	0	0	0	
Percent	0.00%	25.00%	75.00%	25.00%	0.00%	50.00%	0.00%	0.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way	
Total	3	1	0	4	1	2	1	0	0	0	0	0	0	0	0	
Percent	75.00%	25.00%	0.00%	100.00%	25.00%	50.00%	25.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
TOTAL ENTERING VEHICLES/ADT: 25,500								SEGMENT CRASH RATE: 4.126 CRASHES PER MILLION VEHICLE MILES								

State of Florida Department of Transportation															
CRASH SUMMARY															
SECTION:		90060000					STATE ROUTE:				5				
ROADWAY LIMITS:		MP					M.P. 12.172		TO 12.276		ENGINEER: FDOT D6				
STUDY PERIOD:		FROM 1/ 2015			TO 12/ 2015			COUNTY: Monroe							
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	12.202	02/09/15	Mon	1237	Angle			0	0	1	Day	Dry	Failed to Yield Right-Of-Way		
2	12.214	02/28/15	Sat	1600	Rear-End			0	6	0	Day	Dry	Careless or Negligent Manner		
3	12.174	03/09/15	Mon	1015	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
4	12.211	03/14/15	Sat	1327	Rear-End			0	0	1	Day	Dry	No Contributing Action		
5	12.224	07/25/15	Sat	1851	Curb			0	0	1	Day	Wet	Drove too Fast for Conditions		
6	12.202	11/19/15	Thu	2046	Sideswipe			0	0	1	Night	Dry	#N/A		
7	12.202	12/14/15	Mon	1250	Angle			0	2	0	Day	Dry	Failed to Yield Right-Of-Way		
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
7	0	2	5	3	0	2	0	0	1	0	0	0	1	0	0
Percent	0.00%	28.57%	71.43%	42.86%	0.00%	28.57%	0.00%	0.00%	14.29%	0.00%	0.00%	0.00%	14.29%	0.00%	0.00%
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way
Total	6	1	1	6	2	2	0	0	1	0	0	0	0	0	0
Percent	85.71%	14.29%	14.29%	85.71%	28.57%	28.57%	0.00%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 27,500								SEGMENT CRASH RATE: 6.695 CRASHES PER MILLION VEHICLE MILES							

State of Florida Department of Transportation															
CRASH SUMMARY															
SECTION:		90060000					STATE ROUTE:		5						
ROADWAY LIMITS:		MP					M.P. 12.172		TO 12.276		ENGINEER: FDOT D6				
STUDY PERIOD:		FROM 1/ 2016					TO 12/ 2016		COUNTY: Monroe						
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	12.214	01/19/16	Tue	1441	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
2	12.214	02/12/16	Fri	1324	Sideswipe			0	0	1	Day	Dry	#N/A		
3	12.240	03/19/16	Sat	1145	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
4	12.214	03/25/16	Fri	1740	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
5	12.224	06/19/16	Sun	0922	Rear-End			0	1	0	Day	Dry	Improper Turn		
6	12.214	07/16/16	Sat	1710	Rear-End			0	2	0	Day	Dry	Careless or Negligent Manner		
7	12.202	11/28/16	Mon	1025	Angle			0	1	0	Day	Dry	Ran Stop Sign		
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
7	0	3	4	5	0	1	0	0	1	0	0	0	0	0	0
Percent	0.00%	42.86%	57.14%	71.43%	0.00%	14.29%	0.00%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way
Total	7	0	0	7	4	0	1	0	0	0	0	0	0	0	0
Percent	100.00%	0.00%	0.00%	100.00%	57.14%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 27,500								SEGMENT CRASH RATE: 6.695 CRASHES PER MILLION VEHICLE MILES							

State of Florida Department of Transportation															
CRASH SUMMARY															
SECTION:		90060000					STATE ROUTE:		5						
ROADWAY LIMITS:		MP					M.P. 12.172 TO 12.276		ENGINEER: FDOT D6						
STUDY PERIOD:		FROM 1/ 2017					TO 12/ 2017		COUNTY: Monroe						
No.	MILE POST	DATE	DAY	TIME	CRASH TYPE			FATAL	INJURIES	PROP DAM	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE (VEHICLE ONLY)		
1	12.208	03/13/17	Mon	1551	Angle			0	0	1	Day	Dry	Failed to Yield Right-Of-Way		
2	12.214	06/24/17	Sat	1155	Rear-End			0	0	1	Day	Dry	Careless or Negligent Manner		
3	12.214	09/02/17	Sat	1517	Angle			0	1	0	Day	Dry	Ran Stop Sign		
4	12.249	10/09/17	Mon	1327	Sideswipe			0	0	1	Day	Dry	#N/A		
5	12.214	12/06/17	Wed	1528	Rear-End			0	2	0	Day	Dry	#N/A		
6	12.214	12/20/17	Wed	0632	Rear-End			0	1	0	Day	Dry	No Contributing Action		
7	12.224	12/28/17	Thu	1645	Rear-End			0	0	1	Night	Dry	Careless or Negligent Manner		
Total No.	Fatal	Injury	PDO	Rear-End	Head-On	Angle	Left-Turn	Right-Turn	Sideswipe	Backed Into	Ped/Bike	Parked Car	Fixed Object	Ran into Water	Other
7	0	3	4	4	0	2	0	0	1	0	0	0	0	0	0
Percent	0.00%	42.86%	57.14%	57.14%	0.00%	28.57%	0.00%	0.00%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Contrib. Cause	Day	Night	Wet	Dry	Careless Driving	FTYRW	Improper Turn	Ran Red Light	Exceeded Speed	Improper Passing	Disreg Cntl Dev	Erratic/Aggress	Ran off Road	DUI	Wrong Way
Total	6	1	0	7	2	1	0	0	0	0	0	0	0	0	0
Percent	85.71%	14.29%	0.00%	100.00%	28.57%	14.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL ENTERING VEHICLES/ADT: 27,500								SEGMENT CRASH RATE: 6.695 CRASHES PER MILLION VEHICLE MILES							

LONG FORM SHORT FORM UPDATE

(Electronic Version)

Date of Crash 11/Nov/2019 03:40 PM	Time of Crash 11/Nov/2019 03:40 PM	Date of Report 19/Feb/2020 02:12 PM	Invest. Agency Report Number FHPE19OFF062412	HSMV Crash Report Number 88181972
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CRASH IDENTIFIERS

County Code 38	City Code 30	County of Crash MONROE	Place or City of Crash ISLAMORADA	Within City Limits No	Time Reported 11/Nov/2019 03:45 PM	Time Dispatched 11/Nov/2019 03:51 PM
Time on Scene 11/Nov/2019 04:28 PM	Time Cleared Scene 11/Nov/2019 06:51 PM	Completed Yes	Reason (if Investigation NOT Completed)			Notified By Law Enforcement

ROADWAY INFORMATION

Crash Occured On Street, Road, Highway US-1		At Street Address# 1	At Latitude 24.954907950474201	Longitude -80.581507397103195
At Feet 200	Or Miles	Direction North	From Intersection With Street, Road, Highway MILE MARKER 86	Or From Milepost #
Road System Identifier 2 U.S.		Type Of Shoulder 1 Paved	Type Of Intersection 1 Not at Intersection	

CRASH INFORMATION (Check if Pictures Taken)

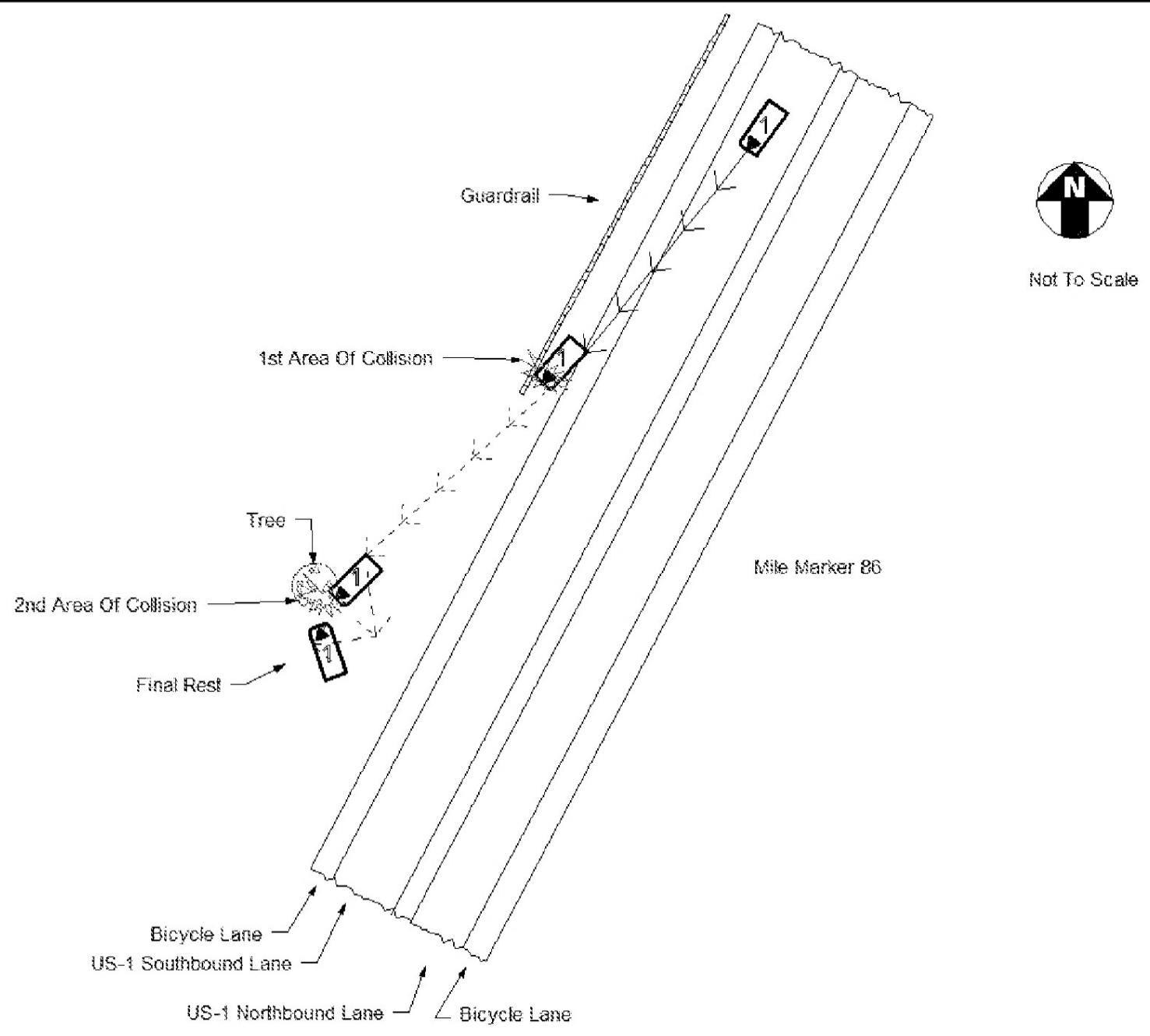
Light Condition 1 Daylight	Weather Condition 1 Clear	Roadway Surface Condition 1 Dry	School Bus Related 1 No	Manner Of Collision 77 Other, Explain in Narrative
First Harmful Event Type	First Harmful Event 28	First Harmful Event Location 3 Shoulder	Within Interchange No	First Harmful Event Relation to Junction 1 Non-Junction
Contributing Circumstances: Road 1 None		Contributing Circumstances: Road		Contributing Circumstances: Road
Contributing Circumstances: Environment 1 None		Contributing Circumstances: Environment		Contributing Circumstances: Environment
Work Zone Related 1 No	Crash In Work Zone	Type Of Work Zone	Workers In Work Zone	Law Enforcement In Work Zone

VEHICLE (Check if Commercial)

Vehicle 1	Motor Vehicle Type 1 Vehicle in Transport	Hit and Run 1 No	Veh License Number LBRB94	State FL	Reg. Expires 19/Feb/2020	Permanent Reg. No	VIN WAUAF AFL2AN010993			
Year 2010	Make AUDI	Model A4	Style UT	Color BLU	Extent of Damage Disabling	Est. Damage 8000	Towed Due To Damage Yes	Vehicle Removed By ALL AMERICAN	Rotation Rotation	
Insurance Company PROGRESSIVE INS				Insurance Policy Number 13829633						
Name of Vehicle Owner (Check Box If Business) ALVARO LOPEZ ALEMAN <input type="checkbox"/>			Current Address (Number and Street) 1662 DUNLAP DE APT 64			City and State KEY WEST FL		Zip Code 33040-4468		
Trailer One:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles	
Trailer Two:	License Number	State	Reg. Expires	Permanent Reg.	VIN	Year	Make	Length	Axles	
Vehicle Traveling:	Direction South	On Street, Road, Highway US-1				At Est. Speed 45	Posted Speed 45	Total Lanes 2		
CMV Configuration			Cargo Body Type			Area of Initial Impact		Most Damaged Area		
Comm GVWR/GCWR			Trailer Type (trailer one)		Trailer Type (trailer two)					
Haz. Mat. Release		Haz Mat. Placard		Number		Class				
Motor Carrier Name				US DOT Number						
Motor Carrier Address				City and State			Zip Code		Phone Number	
Comm/Non-Commercial	Vehicle Body Type 1 Passenger Car	Vehicle Defects (one) 1 None		Vehicle Defects (two)		Emergency Vehicle Use 1 No		Special Function of MV 1 No Special Function		
Vehicle Maneuver Action 1 Straight Ahead	Trafficway 1 Two-Way, Not Divided		Roadway Grade 1 Level		Roadway Alignment 1 Straight		Most Harmful Event 3 Collision with Fixed Object		Most Harmful Event Detail 32 Tree (standing)	
Traffic Control Device For This Vehicle 1 No Controls		First (1) Sequence of Events 3 Collision with Fixed Object 28 Guardrail End		Second (2) Sequence of Events 32 Tree (standing)		Third (3) Sequence of Events		Fourth (4) Sequence of Events		

PERSON RECORD

Person# 1	Description 1 Driver	Vehicle # 1	Name DIOGO JESUS LOPEZ			Date of Birth 06/Nov/2002	Sex 1 Male	Phone Number	Re-Exam No
Address 1662 DUNLAP DR APT 4		City KEY WEST			State FL		Zip Code 33040		
Driver License Number L120170024060		State FL	Expires 06/Nov/2027	DL Type 5 E/Operator	Req. End. 3 No Req Endorsement	Injury Severity 2 Possible		Ejection 1 Not Ejected	





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          CCCCCCCCCC      AAAAAAAAAA      RRRRRRRRRR
        CCCCCCCCCC      AAAAAAAAAAAA      RRRRRRRRRR
       CCC             AAA      AAA      RRR      RRR
      CCC             AAA      AAA      RRR      RRR
     CCC             AAAAAAAAAA      RRRRRRRRRRRR
    CCC             AAAAAAAAAAAA      RRRRRRRRRRRR
   CCC             AAA      AAA      RRR      RRR
  CCC             AAA      AAA      RRR      RRR
 CCCCCCCCCC      AAA      AAA      RRR      RRRR
CCCCCCCCCCCC      AAA      AAA      RRR      RRRRRR

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C R A S H R E P O R T I N G S Y S T E M

N O T I C E: THE INFORMATION CONTAINED IN THIS DOCUMENT (REPORT, SCHEDULE, LIST, OR DATA) HAS BEEN COMPILED FROM INFORMATION COLLECTED FOR THE PURPOSE OF IDENTIFYING, EVALUATING, OR PLANNING SAFETY ENHANCEMENTS. THIS PRODUCT IDENTIFIES INFORMATION USED FOR THE PURPOSE OF DEVELOPING HIGHWAY SAFETY CONSTRUCTION IMPROVEMENT PROJECTS WHICH MAY BE IMPLEMENTED UTILIZING FEDERAL-AID HIGHWAY FUNDS. ANY DOCUMENT DISPLAYING THIS NOTICE SHALL BE USED ONLY FOR THOSE PURPOSES DEEMED APPROPRIATE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION. SEE TITLE 23, UNITED STATES CODE, SECTION 409.

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I/O NAME: ..... CARI122
PROGRAM ID: ..... CARPJ122
REPORT NUMBER: ..... 01
RUN CLASS: ..... A
MESSAGE CLASS: ..... Q
PRINTER DEST: ..... LOCAL
# COPIES: ..... 01
ACCOUNT #: ..... 5565945
SUBMIT W/HOLD? ..... N
USERID: ..... KNMMANL
DETAIL SORT ORDER: ..... 1 - SORT BY ROADWAY, MILE POINT
PRINT SEGMENTS? ..... Y
PRINT INTERSECTIONS? ..... N
SUMMARY FORMAT: ..... 2 - TOP LINE ALL BREAKS
OVERRIDE VALUES:
MAX # OF BREAKS: ..... 06
CRASH RATE CATEGORY: ...
AVERAGE DAILY TRAFFIC:..
# OF LEGS: .....

```


REPORT...CARPJ122-01
 DATE...03/16/2020
 TIME...13:42:09

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS

PAGE NO: 2
 USERID: KNMMANL
 I/O.... CARI122

COMMENT: 1 - SORT BY ROADWAY, MILE POINT
 FROM: 01/01/2013 TO 12/31/2017
 FROM CO/SEC/SUB: 90 060 000
 TO CO/SEC/SUB: 90 060 000
 MP: 012.172
 MP: 012.276
 RAMPS INCL
 INFL INCL
 CR/OS INCL

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2013	0	0	0	4	6	3	7	0	6	0	0
2014	0	0	0	1	1	3	4	0	1	0	0
2015	0	0	0	2	8	5	7	0	8	0	0
2016	0	0	0	3	4	4	7	0	4	0	0
2017	0	0	0	3	4	4	7	0	4	0	0
TOTAL	0	0	0	13	23	19	32	0	23	0	0

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REPORT...CARPJ122-01
 DATE...03/16/2020
 TIME...13:42:09

FLORIDA - DEPARTMENT OF TRANSPORTATION
 C A R - CRASH ANALYSIS REPORTING SYSTEM
 CRASH DATA (IN 2011 AND LATER) DETAIL FOR STATE-MAINTAINED ROADS
 *** REPORT TOTALS ***

PAGE NO: 3
 USERID: KNMMANL
 I/O.... CARI122

CUMULATIVE TOTALS FOR ALL LOCATIONS SUBMITTED - OVERLAPPING OR INTERSECTING LOCATIONS MAY RESULT IN CRASHES COUNTED MORE THAN ONCE

FOR YEAR	FATAL CRASH STATISTICS			INJURY CRASH STATS		PROPERTY DAMAGE ONLY	TOTALS			INFLUENCE CRASHES OCCURRING ON INTERSECTING RDWYS	
	CRASHES	FATALITIES	INJURIES	CRASHES	INJURIES	CRASHES	CRASHES	FATALITIES	INJURIES	AT INT.	INFL AREA
2013	0	0	0	4	6	3	7	0	6	0	0
2014	0	0	0	1	1	3	4	0	1	0	0
2015	0	0	0	2	8	5	7	0	8	0	0
2016	0	0	0	3	4	4	7	0	4	0	0
2017	0	0	0	3	4	4	7	0	4	0	0
TOTAL	0	0	0	13	23	19	32	0	23	0	0

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