

MEMORANDUM OF AGREEMENT BETWEEN
THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND
THE CITY OF MIAMI BEACH

This Memorandum of Agreement (the “MOA”) is entered into this ____ day of _____, 2023, by and between **Florida Department of Transportation**, an agency of the State of Florida (hereinafter called “**FDOT**”) and the **City of Miami Beach**, a municipal corporation of, and existing under the laws of, the State of Florida (hereinafter called the “**City**”), each referred to herein as, a “Party”, and collectively as the “Parties”.

RECITALS

WHEREAS, the Department is undertaking roadway milling, resurfacing, overbuilding, and widening **Project FPID# 429193-1** on SR 907/Alton Road from Michigan Avenue to 43rd Street referred to herein as the “**Alton Road Project 1**”;

WHEREAS, FDOT has been in the process of designing, programming, and planning of roadway improvements for SR907/Alton Road Projects;

WHEREAS, the Alton Road Project, as initially proposed, consists of improvements and maintenance to the roadway, including improvements to the drainage system, new pump stations, pavement reconstruction, sidewalk reconstruction, new signalization, landscaping, and new pavement markings;

WHEREAS, the City has requested that FDOT collaborate with the City to modify its design, and to enter into an agreement to incorporate City requested improvements into the above mentioned FDOT project;

WHEREAS, it is the intention of the Parties to design, plan and construct all the improvements in a harmonized and unified manner, and the Parties recognize that it is more efficient and effective to have one entity perform said work;

WHEREAS, the Parties are committed to have FDOT be the designated entity to design, and construct the City’s requested improvements by incorporating same in the Alton Road Project, with funding to be provided by the City to FDOT to fully cover the construction costs of the City’s requested improvements;

WHEREAS, the Parties agree to herein memorialize their general agreement and commitments related to FDOT’s undertaking to design and construct the City’s improvements in conjunction with the Alton Road Project 1, and the Parties’ intent to enter into a binding Locally Funded Agreement (LFA), whereby the City will fully fund the construction costs of the City’s requested improvements;

WHEREAS, in response to the City’s request to incorporate the City’s improvements into the Alton Road Projects, FDOT shall revise the scope of the Alton Road Project 1 to include:

City requested improvement features (hereinafter “City Improvements”), which include improved bicycle facility connectivity (bi-directional bicycle lane widening), pedestrian improvements (additional sidewalk), Intelligent Transportation System (ITS) improvements, and the design and construction of water and sewer improvements;

WHEREAS, the City Improvements will be installed by FDOT, at the City's cost and expense;

WHEREAS, the City is agreeable to FDOT accessing the City right of way for purposes of completing the Project, and will grant FDOT authorization as required by FDOT;

WHEREAS, upon completion of the City Improvements, the City will assume the maintenance of such features within the City's right of way and select features, including the pump station infrastructures and landscaping, within FDOT's right of way. A separate maintenance agreement will be entered into between the Parties, delineating the City's maintenance responsibilities with respect to the select features located within the FDOT right of way; and

WHEREAS, the City Resolution authorizing the City's execution of this MOA is attached hereto as Exhibit "A".

NOW, THEREFORE, in consideration of the premises, and for other good and valuable consideration, the Parties incorporate herein to the MOA all of the above recitals, and agree to the following terms:

1. FDOT agrees to design the following City Improvements as part of the Alton Road Project 1, as requested by the City:
 - Inclusion of pedestrian facilities and implementation of a two-way bicycle lanes along east side of Alton Road from Michigan Avenue to Chase Avenue;
 - Intelligent Transportation System Improvements; and
 - Design, construction and installation of the City-owned water and sewer improvements.
2. It is understood and agreed that FDOT shall, at FDOT's expense, incorporate the design of the City Improvements, excepting the design pertaining to the City-owned water and sewer improvements, into the plans for the Alton Road Project 1. The City utility design work will be performed by FDOT at the City's expense. FDOT and the City entered into a Utility Design by FDOT Consultant Agreement on February 24, 2017, stating the terms and conditions for the design of the City-owned water and sewer improvements. The construction of the City Improvements shall be completed by FDOT as components of the Alton Road Project 1 at the City's cost and expense.
3. FDOT agrees to construct the City Improvements as part of the Alton Road Project subject to the following:
 - the Parties entering into a Locally Funded Agreement (LFA) and into an agreement for "Utility Work by Highway Contractor" (as further described below), providing for the City's full funding of the construction cost of the City Improvements;
 - the Parties entering into an Off-System Construction and Maintenance Agreement; and
 - the Parties entering into a Memorandum of Maintenance Agreement (as further described below), to address the City's maintenance obligations.

4. The Parties will enter into a binding Locally Funded Agreement (LFA) on or before October 1, 2023, whereby the City will agree to deliver an advance deposit to FDOT in the updated amount estimated to cover the full construction cost of the City Improvements. The LFA shall provide for the advance deposit to be delivered to FDOT by October 1, 2023, and shall further provide for additional subsequent deposits as necessary to fully cover payment of the actual construction cost of the City Improvements. If the City does not execute the LFA and deliver the funds by October 1, 2023, FDOT shall redesign the Alton Road Projects to remove the scope pertaining to the City Improvements.
5. The Parties shall further enter into a “Utility Work by Highway Contractor” agreement by February 6, 2024, pursuant to which the City shall fund the design and construction of the City-owned water and sewer Improvements.
6. As set forth in the attached Cost Responsibility Package, Exhibit “B”, the current estimated financial responsibility of the City for the construction cost of the City Improvements is:

Project 429193-1 Estimated City Responsibility \$9,000,000 - \$12,000,000

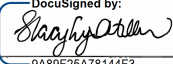
Said estimates may be updated and are subject to change.

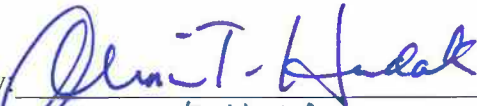
7. Prior to completion of the Project design plans, FDOT and the City shall enter into an Off-System Construction and Maintenance Agreement for the purpose of allowing FDOT to construct portions of Alton Road Project 1 within City right of way.
8. Prior to completion of the Project design plans, the Parties shall enter into a Memorandum of Maintenance Agreement to address the City’s maintenance obligations for landscaping and for select pump station infrastructure within the FDOT right of way areas of the Alton Road Project 1 limits.
9. This MOA agreement may be executed in counterparts, and when taken together, the same shall constitute a binding agreement on all Parties. A photocopy or facsimile copy of this Agreement and any signatory hereon shall be considered for all purposes as an original.
10. This MOA Agreement shall be binding upon and shall insure to the benefit of the Parties hereto, and their respective successors, permitted assigns, heirs and legal representatives.
11. The Parties agree that time is of the essence with respect to each of the Parties’ obligations under this MOA. Time is expressly made of the essence with respect to City’s agreement to execute a binding LFA committing to fully fund the construction cost of the City Improvements.
12. **Governing Law.** This Agreement shall be construed in accordance with the laws of the State of Florida. Any litigation arising out of this Agreement shall be in Miami-Dade County, Florida.

IN WITNESS WHEREOF the Parties have attached their hands and seals this ____ day
of _____, 20 ____.

STATE OF FLORIDA DEPARTMENT
OF TRANSPORTATION

CITY OF MIAMI BEACH

By: DocuSigned by:

9A89F25A7B144E3
Name: Stacy Miller
Title: District Secretary

By: 
Name: ALINA T. HUDAK
Title: CITY MANAGER


Date: _____

Date: _____

Approved as to form and legality:

Department Legal Review:

City of Miami Beach Legal Review:

By: DocuSigned by:

12CAFOE1B1DB4BC...
Name: Alicia Trujillo



By:  DEPUTY CITY ATTORNEY
Name: STEVEN H. ROTHSTEIN
for City Attorney 

EXHIBIT "A"

CITY OF MIAMI BEACH RESOLUTION

RESOLUTION NO. **2022-32358**

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, APPROVING, IN SUBSTANTIAL FORM, A MEMORANDUM OF AGREEMENT BETWEEN THE CITY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), MEMORIALIZING THE PARTIES' COMMITMENT RELATED TO FDOT'S UNDERTAKING TO DESIGN AND CONSTRUCT CERTAIN CITY-OWNED UTILITY AND TRANSPORTATION FACILITIES ALONG FDOT'S STATE ROAD 907/ALTON ROAD, FROM MICHIGAN AVENUE TO 43RD STREET (FPID# 429193-1), AS PART OF THE RECONSTRUCTION OF THE FDOT ALTON ROAD PROJECT; AND FURTHER AUTHORIZING THE CITY MANAGER AND CITY CLERK TO EXECUTE THE AGREEMENT.

WHEREAS, For the last few years, the Florida Department of Transportation ('FDOT') has been working on the design and programming for the construction of improvements along Alton Road/SR 907, from Michigan Avenue to 63rd Street (collectively, the "Alton Road Project"); and

WHEREAS, due to the magnitude of the Alton Road Project, FDOT has subdivided the Project into four smaller projects as follows: (1) Michigan Avenue to 43rd Street ("Alton Road Project 1"); (2) 43rd Street to 48th Street; (3) 48th Street to 57th Street; and (4) 57th Street to 63rd Street; and

WHEREAS, this Resolution only applies to the Alton Road Project 1; and

WHEREAS, Alton Road Project 1, as initially proposed, consists of improvements and maintenance to the roadway, including improvements to the drainage system, new pump stations, pavement reconstruction, sidewalk reconstruction, new signalization, landscaping, and new pavement markings; and

WHEREAS, the City has requested that FDOT collaborate with the City to modify its design, and to enter into an agreement to incorporate City requested improvements into the Alton Road Project 1; and

WHEREAS, FDOT has agreed to design, and subject to funding by the City, to construct the following improvements requested by the City ("City Improvements"):

- inclusion of pedestrian facilities and implementation of a two-way bicycle lanes along east side of Alton Road from Michigan Avenue to Chase Avenue, as part of the City's transportation improvements;
- Intelligent Transportation System Improvements, as part of the City's transportation improvements; and
- design, construction and installation of the City-owned water and sewer improvements; and

WHEREAS, on February 24, 2017, the City and FDOT executed a Utility Design by Agreement ("2017 Consultant Agreement") to design the relocation of the existing water main system impacted by the Alton Road Project 1, in the amount \$290,756.85; and

WHEREAS, on July 20, 2022 meeting, the City Commission approved, via Resolution 2022-32225, the allocation of additional design fees in the amount of \$404,808.41, for a grand total design

fee amount of \$695,565.26, to perform additional design services not included in the original 2017 Consultant Agreement of the City-owned utility facilities, including the replacement of the existing old and substandard sewer system; and

WHEREAS, it is the intention of the parties to design, plan and construct all the improvements in a harmonized and unified manner, and the parties recognize that it is more efficient and effective to have FDOT perform said work; and

WHEREAS, FDOT will design and construct the City Improvements in the Alton Road Project 1, with funding to be provided by the City to FDOT to fully cover the construction costs of the City Improvements, currently estimated to cost between \$9,000,000 - \$12,000,000; and

WHEREAS, the City and FDOT have agreed to set forth each party's responsibilities in a Memorandum of Agreement ("MOA"), a draft copy of which is attached as Exhibit "A" to the City Commission Memorandum accompanying this Resolution; and

WHEREAS, pursuant to the proposed MOA, on or before October 1, 2023, the City and FDOT will be required to enter into a binding Locally Funded Agreement, whereby the City will agree to deliver an advance deposit to FDOT in the updated amount estimated to cover the full construction cost of the City's Improvements; and


WHEREAS, additionally, upon completion of the City Improvements, the City and FDOT will enter into a Maintenance Memorandum of Agreement, whereby the City will assume the maintenance of the City Improvements and select-features within the FDOT rights-of-way; and


WHEREAS, based upon the foregoing, the City Manager recommends approving, in substantial form, the draft MOA, setting forth the commitment of the parties in connection with FDOT's design and construction of the City Improvements, and further authorizing the City Manager to finalize and execute the MOA.

NOW, THEREFORE, BE IT DULY RESOLVED BY THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, that the Mayor and City Commission hereby approve, in substantial form, a Memorandum of Agreement between the City and the Florida Department of Transportation (FDOT), memorializing the parties' commitment related to FDOT's undertaking to design and construct certain City-owned utility and transportation facilities along FDOT's State Road 907/Alton Road, from Michigan Avenue to 43rd Street (FPID# 429193-1), as part of the reconstruction of the FDOT Alton Road Project; and further authorize the City Manager and City Clerk to execute the Agreement.

PASSED and ADOPTED this 26 day of October 2022.

ATTEST:


OCT 27 2022
Rafael E. Granado, City Clerk


Dan Gelber, Mayor



APPROVED AS TO
FORM & LANGUAGE
& FOR EXECUTION


City Attorney 
Date 10-7-22

Exhibit "B"

COST RESPONSIBILITY PACKAGE

Alton Road Projects - City of Miami Beach Cost Package

FDOT Projects:

429193-1: SR 907/Alton Road from Michigan Avenue to South of 43rd Street

430444-1: SR 907/Alton Road from South of 43rd Street to North of 48th Street

430444-2: SR 907/Alton Road from North of 48th Street to East of Allison Road



DISTRICT SIX

1000 NW 111 AVENUE

MIAMI, FL. 33172

Date: June 10, 2022

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City of Miami Beach Cost Package

I. Background

The City of Miami Beach has requested additional/increased scope elements on FDOT – D6’s on-going design projects along Alton Road from Michigan Avenue to 63rd Street. This package details the City of Miami Beach cost responsibility for items requested outside the scope of FDOT’s projects. If the City of Miami Beach cannot commit local funding for the requested improvements, FDOT will re-design their projects back to the original scope in order to meet our commitments to the traveling public.

II. Scope

a. Project 429193-1: SR 907/Alton Road from Michigan Ave to 43rd Street

This is a reconstruction project along SR 907 / Alton Road from Michigan Avenue to South of Ed Sullivan Drive / 43 Street within the City of Miami Beach (CMB) in Miami-Dade County, Florida. The corridor traverses a highly urbanized area with diverse adjacent land uses including single family residential, institutional, recreational, and commercial properties. The net length of this project is 1.773 miles. This segment of SR 907 / Alton Road is an urban minor arterial with an Access Classification of 5 and Context Classification of C4 Urban General. The design and posted speed will be set at 30 mph with this project.

The scope of this project consists of:

- SR 907/Alton Road from Michigan Avenue to north of N. Bay Road/Chase Avenue
 - Milling, resurfacing, overbuilding (road raising), and widening
 - Addition of a separated bi-directional bicycle lane along the northbound lanes.
 - Reconstruction of the west side sidewalk and new sidewalk along the east side.
 - Drainage pump station and new drainage infrastructure
 - Signing and marking upgrades
 - Upgrading roadway lighting
 - Pedestrian signalization improvements at Michigan Avenue and Chase Avenue
 - Landscaping modifications
 - City of Miami Beach Utility updates through Utility Work by Highway Contractor
- SR 907/Alton Road & SR 907A/Old Alton Road from north of N. Bay Road/Chase Avenue to 43rd Street
 - Milling, resurfacing, and shoulder widening
 - ADA Improvements
 - Drainage pump station and new drainage infrastructure
 - Signing and marking upgrades
 - Pedestrian signalization improvements at 41 Street
 - City of Miami Beach Utility updates through Utility Work by Highway Contractor

Current Estimated Total Project Construction Cost: \$37,000,000

b. Projects 430444-1: SR 907/Alton Road from South of W 43rd street to north of 48th street (Segment 1) and 430444-2: SR 907/Alton Road from north of 48th street to Allison Road (Segment 2)

The Alton Road projects are located within the City of Miami Beach. Project limits are from south of West 43rd Street to east of Allison Road. The project length is 2.62 miles, and it has been divided into two segments for Letting and construction. Segment 1 (FM 430444-1) limits are from South of W 43 St

to North of 48th street (south of the Surprise Waterway Bridge), while Segment 2 (FM 430444-2) limits are from North of 48th street (north of the Surprise Waterway Bridge) to east of Allison Road. Both Segments will utilize a water-tight closed drainage system with one pump station each and one Outfall each.

The Scope of services is summarized as follows:

- Reconstructing and elevating the road
- Widening existing parking lanes between 43 Street and W. 63rd Street
- Providing drainage improvements by designing and constructing a new roadway drainage system, including pump stations and outfalls to the Intracoastal Waterway
- Updating utilities in coordination with City of Miami Beach
- Installing new pavement markings including markings for bicycle facilities
- Signalization improvements
- Upgrading roadway lighting with new Light Emitting Diode (LED) fixtures

430444-1 Current Estimated Total Project Construction Cost: \$47,000,000

430444-2 Current Estimated Total Project Construction Cost: \$96,000,000

III. City of Miami Beach Cost Breakdown

- a. Project 429193-1: SR 907/Alton Road from Michigan Ave to 43rd Street

Cost City of Miami Beach is responsible within FDOT Project 429193-1:

- i. Separated bi-directional bicycle lane – Bike lane between Michigan Avenue and Chase Avenue along Alton Road northbound lanes was requested by the City of Miami Beach. Inclusion of the bicycle lane introduces additional roadway widening, a 2-ft traffic separator, a sidewalk, harmonization onto the City of Miami Beach Golf Course, modified light pole foundations at the golf course, and modifications to the striping and signage. FDOT is seeking local funding for the additional items introduced by the bike lane and sidewalk widening that are not in FDOT’s project scope. **Appendix B** contains the plan sheets reflecting the City of Miami Beach cost responsibility.

Estimated Construction Cost: \$2,773,672.00 (See **Appendix A1** for Itemized Cost Estimate)

- ii. ITS

1. Devices South of Chase Avenue – Due to the additional bike lane widening, the existing ITS infrastructure south of Chase Avenue is being impacted. FDOT is seeking local funding for the additional cost to modify the existing ITS. **Appendix B** contains the plan sheets reflecting the City of Miami Beach cost responsibility.
Estimated Construction Cost: \$466,331.00 (See **Appendix A1** for Itemized Cost Estimate)
2. ITS fiber is being constructed at the request of the City of Miami Beach. Previous agreement was for a 50/50 cost share between FDOT and the City of Miami Beach. **Appendix C** contains the plans developed by the City of Miami Beach consultant to be included with the FDOT project.

Estimated Total Construction Cost: \$357,287.00.

Estimated City of Miami Beach Construction Cost: \$178,644

Estimated FDOT Construction Cost: \$178,644

Estimated Construction Cost: \$644,974.00 (See **Appendix A1** for Itemized Cost Estimate)

- iii. Utility Work by Highway Contractor – The City of Miami Beach has requested and agreed to enter into a Utility Work by Highway Contractor agreement to construct water and sewer facilities as part of the FDOT project. The estimate included with this package was provided by the Utility Consultant and may change as the Consultant is still refining the scope with City of Miami Beach staff.

Estimated Construction Cost: \$6,418,805.00 (See **Appendix A2** for Itemized Cost Estimate)

Total City of Miami Beach Construction Cost Responsibility for 429193-1: **\$9,000,000 - \$12,000,000***. (See **Appendix A** for Itemized Cost Estimate).

**Construction cost estimates are calculated using present day cost. A Construction Cost Responsibility Range is provided to account for potential anticipated future material and construction cost increases.*

Local Funding Agreement (LFA) funding and Utility Work by Highway Contractor (UWHC) Funding needs to be received by FDOT by Plans Complete Date: **9/29/2023**. In addition, FDOT is drafting a Memorandum of Understanding (MOU) to obtain City agreement to provide payment to FDOT for the LFA and UWHC. A signed MOU must be received by **9/30/2022**.

- b. Projects 430444-1: SR 907/Alton Road from South of W 43rd street to north of 48th street (Segment 1) and 430444-2: SR 907/Alton Road from north of 48th street to Allison Road (Segment 2)

- i. Drainage System Description – 430444-1 (Segment 1)

In the original FDOT design (2016), the contributing area that FDOT would need to handle with the proposed drainage system is 21.6 Acres (see Exhibit). This tributary area was computed from roof ridgeline to roof ridgeline including the roadway right of way (onsite drainage area) and the area from private properties draining into the roadway (offsite drainage area).

The City of Miami Beach requested the drainage system to be designed to include an offsite drainage area equal to the entire parcel area. This resulted in an increase from 21.6-acres to 33.62-acres in tributary area. The City of Miami Beach has agreed to the design and construction by FDOT of one pump station with a planned discharge capacity of 100,000 GPM based on the “Middle North Bay and Nautilus Final Basin Study” that was prepared by AECOM for the City of Miami Beach. The Pump Station as described above will be designed and constructed under FDOT Project 430444-1 (Segment 1), located south of the SR 112 interchange by the Bay, within FDOT right of way.

In the current design, in addition to the Segment 1 Pump Station, FDOT will include the infrastructure (96” main trunk line, drainage structures with connection stubs, outfall, etc.) for the City to connect to in the future.

In general, the drainage system increased as follows:

- The main trunk line along Alton Road had to be upsized from 36”, 42” and 48” sections in diameter to a single section of 96” in diameter to accommodate future City of Miami Beach flows as per the “Middle North Bay and Nautilus Final Basin Study”
- Increase from 2 to 5 pollution control structures to provide water quality control.

- Increase wet well from 2 to 5 submersible pumps.
- Add 8 injection drainage wells as required by DRER coastal requirements.

ii. Drainage and Pump Stations Cost – 430444-1 (Segment 1)

The drainage and pump stations construction cost has been estimated at \$31.4 million with construction costs distributed as follows:

- Current cost responsibility to FDOT = \$20.2 million, and
- Current cost responsibility to the City of Miami Beach = \$11.2 million
- Escalated cost responsibility to the City of Miami Beach = \$14.6 million*

iii. ITS work

The ITS construction cost has been estimated at \$150,000 with construction costs distributed as follows:

- Current cost responsibility to FDOT = \$75,000, and
- Current cost responsibility to the City of Miami Beach = \$75,000
- Escalated cost responsibility to the City of Miami Beach = \$97,500*

iv. Drainage System Description – 430444-2 (Segment 2)

In the original FDOT design (2016), the contributing area that FDOT would need to handle with the proposed drainage system is of 43.21 Acres (see Exhibit). The City of Miami Beach requested the drainage system to be designed to include an offsite drainage area equal to the entire parcel area. This resulted in an increase from 43.21-acres to 63.60-acres in tributary area. The City of Miami Beach has agreed to the design and construction by FDOT of one pump station with a planned discharge capacity of 100,000 GPM based on the “La Gorce Final Basin Study” that was prepared by AECOM for the City of Miami Beach. The Pump Station as described above will be designed and constructed under FDOT Project 430444-2 (Segment 2), located at the intersection of SR 907/W 63rd Street and Pine Tree Drive within a property owned by the City of Miami Beach. This analysis does not include changes caused by the recent resolution declaring this parcel a park.

In the current design, in addition to the Segment 2 Pump Station, FDOT will include the infrastructure (96” main trunk line, drainage structures with connection stubs, outfall, etc.) for the City to connect to in the future.

In general, the drainage system increased as follows:

- The main trunk line along Alton Road had to be upsized from 24”, 30”, 36”, 42” and 48” sections in diameter to a single section of 96” in diameter to accommodate future City of Miami Beach flows as per the “La Gorce Final Basin Study” and the use of one pump station instead of three.
- Add 8 injection drainage wells as required by DRER coastal requirements.

v. Drainage and Pump Stations Cost – 430444-2 (Segment 2)

The drainage construction cost has been estimated at \$44.5 million with construction costs distributed as follows:

- Current cost responsibility to FDOT = \$30.2 million, and
- Current cost responsibility to the City of Miami Beach = \$14.3 million
- Escalated cost responsibility to the City of Miami Beach = \$18.6 million*

vi. ITS work

The ITS construction cost has been estimated at \$374,000 with construction costs distributed as follows:

- Current cost responsibility to FDOT = \$187,000, and
- Current cost responsibility to the City of Miami Beach = \$187,000
- Escalated cost responsibility to the City of Miami Beach = \$243,000*

Total City of Miami Beach Cost Share Responsibility for 430444-1 and -2= \$26,000,000 to \$34,000,000*

**Construction cost estimates are calculated using present day cost. A Construction Cost Responsibility Range is provided to account for potential anticipated future material and construction cost increases.*

Local Funding Agreement (LFA) funding and Utility Work by Highway Contractor (UWHC) Funding needs to be received by FDOT by Plans Completion Date: 9/29/2023. In addition, FDOT is requesting a Memorandum of Understanding (MOU) from the City indicating agreement to provide payment to FDOT for the LFA and UWHC by 9/30/2022.

Appendix A1 – 429193-1 Itemized Cost Estimate

429193-1: SR 907/Alton Road from Michigan Ave to S of Ed Sullivan Dr/43 Street
 Cost Estimate for City of Miami Beach Requested Items - Cost Responsibility

1. SEPARATED BI-DIRECTIONAL BICYCLE LANE - COST BREAKDOWN

PAY-ITEM	PAY-ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	NOTES
ROADWAY						
0110 1 1	CLEARING & GRUBBING	AC	5.926	\$ 35,000.00	\$ 207,410.00	COST OF CLEARING & GRUBBING INSIDE OF FDOT R/W WAS NOT INCLUDED SINCE THIS WAS NEEDED WITH FDOT'S ORIGINAL DESIGN. ONLY CLEARING & GRUBBING OUTSIDE OF FDOT R/W INCLUDED.
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	308.900	\$ 23.00	\$ 7,104.70	COST OF C&G FROM MICHIGAN AVE TO CHASE AVE IS NOT INCLUDED SINCE IT NEEDED TO BE REMOVED WITH FDOT ORIGINAL DESIGN. ONLY COST OF CONCRETE REMOVAL ALONG GOLF COURSE PARKING AREA IS INCLUDED.
0120 1	REGULAR EXCAVATION	CY	3,186.870	\$ 19.00	\$ 60,550.53	ASSUME 4-INCH AVG. EXCAVATION OVER CLEARING AND GRUBBING AREA
0120 6	EMBANKMENT	CY	9,560.610	\$ 20.00	\$ 191,212.20	ASSUME 1-FT AVG EMBANKMENT OVER CLEARING AND GRUBBING AREA
0145 2	GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL	SY	7,135.970	\$ 6.00	\$ 42,815.82	AREA 12 COST WAS DOUBLED TO ACCOUNT FOR OVERLAP AND EMBEDMENT INTO ADJACENT PAVEMENT
0160 4	TYPE B STABILIZATION	SY	5,269.400	\$ 10.00	\$ 52,694.00	
0285701	OPTIONAL BASE, BASE GROUP D1	SY	5,228.100	\$ 25.00	\$ 130,702.50	
0285709	OPTIONAL BASE, BASE GROUP D9	SY	5,269.400	\$ 35.00	\$ 184,429.00	
0327 70 4	MILLING EXISTING ASPHALT PAVEMENT, 3" AVG DEPTH	SY	953.000	\$ 10.00	\$ 9,530.00	PREVIOUS PLANS WERE REMOVING A PORTION OF THE PAVEMENT ALONG THE BIKE LANE. WITH THIS APPROACH, WE WILL MILL ALL THE EXISTING PAVEMENT. ADDITIONAL QUANTITY IS FOR THE ADDITIONAL MILLED PAVEMENT
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	1,063.570	\$ 130.00	\$ 138,264.10	INCLUDES 1.5" SP BASED ON PAVEMENT DESIGN FOR BIKE LANE AND GOLF COURSE PARKING. IN ADDITION, INCLUDES 1" OVER OBG BASED ON TYPICAL SECTION DETAILS FOR OVERLAP OF GEOSYNTHETIC MATERIALS FOR BIKE LANE ONLY.
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (OVERBUILD)	TN	2,130.100	\$ 130.00	\$ 276,913.00	ASSUME 12-INCH AVG OVERBUILD THICKNESS AT LOCATION WHERE MILLING ALONG BIKE LANE. ASSUME 6-INCH AVG OVERBUILD THICKNESS ALONG GOLF COURSE PARKING.
0337 7 82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	TN	663.160	\$ 175.00	\$ 116,053.00	INCLUDES 1.5" FC-9.5 FOR BI-DIRECTIONAL BIKE LANE & GOLF COURSE PARKING
0430174118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD	LF	396.000	\$ 135.00	\$ 53,460.00	DRAINAGE COST IS PRIMARILY LIMITED TO ADDITIONAL 18-INCH PIPE TO PLACE INLET AT OUTSIDE CURB & GUTTER. 12-FT ADDITIONAL PER INLET. BASED ON 60% PLANS, THERE ARE 33 INLETS ALONG BIKE FACILITY
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	670.500	\$ 30.00	\$ 20,115.00	COST OF CURB & GUTTER FROM MICHIGAN AVE TO CHASE AVE NOT INCLUDED SINCE CURB NEEDED TO BE REPLACED WITH FDOT ORIGINAL DESIGN. ONLY COST OF ADDITIONAL CURB & GUTTER AT GOLF COURSE PARKING AREA INCLUDED.
0520 3	VALLEY GUTTER- CONCRETE	LF	234.000	\$ 30.00	\$ 7,020.00	AT DRIVEWAY
0520 70	CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH	SY	917.200	\$ 115.00	\$ 105,478.00	SEPARATOR BETWEEN TRAVEL LANE AND BIKE LANES
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	3,278.000	\$ 55.00	\$ 180,290.00	SIDEWALK ADJACENT TO NORTHBOUND LANES
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	228.100	\$ 75.00	\$ 17,107.50	SIDEWALK ADJACENT TO NORTHBOUND LANES
				ROADWAY SUBTOTAL	\$ 1,801,149.35	
SIGNING AND MARKING						
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	6.000	\$ 375.00	\$ 2,250.00	
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.068	\$ 2,750.00	\$ 187.55	
0711 16231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	GM	1.277	\$ 1,750.00	\$ 2,234.40	
				SIGNING AND MARKING SUBTOTAL	\$ 4,671.95	
SIGNALIZATION						
				SIGNALIZATION SUBTOTAL	\$ -	NO CHANGES REQUIRED TO SIGNALIZATION
LIGHTING						
0715 61321	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT, 10' ARM LENGTH	EA	4.000	\$ 15,000.00	\$ 60,000.00	DUE TO ADDITION OF BIKE LANES, LIGHT POLE SPACING HAS BEEN REDUCED FROM 170-FT +/- TO 150-FT +/-.
	MODIFIED LIGHT POLE FOUNDATIONS	EA	7.000	\$ 23,000.00	\$ 161,000.00	DISTANCE BETWEEN MICHIGAN AVE (192+00) TO CHASE AVE (242+00) = 5000-FT. THIS RESULTS IN 4 ADDITIONAL LIGHT POLES. QUANTITY OF CONDUIT, PULL BOXES AND OTHER LIGHTING ITEMS DOES NOT CHANGE
				LIGHTING SUBTOTAL	\$ 221,000.00	ADDITIONAL COST OF MODIFIED FOUNDATIONS FOR LIGHT POLES ALONG GOLF COURSE PARKING
LANDSCAPING						
0581 1 1	RELOCATE TREES AND PALMS, PALM, <14' OF CLEAR TRUNK	EA	15.000	\$ 650.00	\$ 9,750.00	+/- 30 TREES TO BE RELOCATED ALONG GOLF COURSE. HALF ON 0581 1 1, OTHER HALF ON 0581 1 2
0581 1 2	RELOCATE TREES AND PALMS, PALM, >=14' OF CLEAR TRUNK	EA	15.000	\$ 1,200.00	\$ 18,000.00	+/- 30 TREES TO BE RELOCATED ALONG GOLF COURSE. HALF ON 0581 1 1, OTHER HALF ON 0581 1 2
				LANDSCAPING SUBTOTAL	\$ 27,750.00	
				ROADWAY SUBTOTAL	\$ 1,801,149.35	
				SIGNING AND MARKING SUBTOTAL	\$ 4,671.95	
				SIGNALIZATION SUBTOTAL	\$ -	
				LIGHTING SUBTOTAL	\$ 221,000.00	
				LANDSCAPING SUBTOTAL	\$ 27,750.00	
				TOTAL	\$ 2,054,571.30	

429193-1: SR 907/Alton Road from Michigan Ave to S of Ed Sullivan Dr/43 Street
 Cost Estimate for City of Miami Beach Requested Items - Cost Responsibility

PAY-ITEM	PAY-ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	NOTES
			MOT	10%	\$ 205,457.13	
			MOBILIZATION	10%	\$ 205,457.13	
			CONTINGENCY	15%	\$ 308,185.70	
TOTAL - SEPERATED BI-DIRECTIONAL BICYCLE LANES					\$ 2,773,671.26	

2. ITS DEVICES SOUTH OF CHASE AVENUE - COST BREAKDOWN

PAY-ITEM	PAY-ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	NOTES
ITS						
1. ITS STRUCTURE IMPACTED BY BIKE LANE WIDENING						
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	465,000	\$ 30.00	\$ 13,950.00	
0630 2 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	15,000	\$ 40.00	\$ 600.00	
0633 1121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	625,000	\$ 5.00	\$ 3,125.00	
0633 3 15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	2,000	\$ 1,750.00	\$ 3,500.00	
0633 8 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	160,000	\$ 8.00	\$ 1,280.00	
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	2,000	\$ 850.00	\$ 1,700.00	
0635 2 12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA	2,000	\$ 2,000.00	\$ 4,000.00	
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	640,000	\$ 15.00	\$ 9,600.00	
0639 2 6	ELECTRICAL SERVICE WIRE, REMOVE	LF	175,000	\$ 1.00	\$ 175.00	
0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	3,000	\$ 2,000.00	\$ 6,000.00	
0641 3163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA	1,000	\$ 30,000.00	\$ 30,000.00	
0646 2600	ALUMINUM POLE- INDEX 695-001, REMOVE	EA	1,000	\$ 2,000.00	\$ 2,000.00	
0660 5 41	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, RELOCATE, CABINET EQUIPMENT	EA	1,000	\$ 2,000.00	\$ 2,000.00	
0660 5 42	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, RELOCATE, ABOVE GROUND EQUIPMENT	EA	1,000	\$ 2,250.00	\$ 2,250.00	
0670 5600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1,000	\$ 750.00	\$ 750.00	
0676 2122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 3365, 24" W X 46" H X 22" D	EA	1,000	\$ 7,500.00	\$ 7,500.00	
0676 2132	ITS CABINET, FURNISH & INSTALL, BASE MOUNT, 3365, 24" W X 46" H X 22" D	EA	1,000	\$ 1,750.00	\$ 1,750.00	
0682 1133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	2,000	\$ 8,000.00	\$ 16,000.00	
0682 1600	ITS CCTV CAMERA, REMOVE & DISPOSAL	EA	1,000	\$ 500.00	\$ 500.00	
0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	2,000	\$ 4,250.00	\$ 8,500.00	
0685 1 11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	2,000	\$ 4,500.00	\$ 9,000.00	
0700 8136	FRONT ACCESS DYNAMIC MESSAGE SIGN, FURNISH & INSTALL- W/UPS, FULL COLOR, 101-200 SF	EA	1,000	\$ 125,000.00	\$ 125,000.00	
0700 8600	FRONT ACCESS DYNAMIC MESSAGE SIGN, REMOVE	EA	1,000	\$ 2,250.00	\$ 2,250.00	
0700 10124	DMS SUPPORT STRUCTURE, CANTILEVER, 41-50 FT	EA	1,000	\$ 90,000.00	\$ 90,000.00	
0700 10600	DMS SUPPORT STRUCTURE, REMOVE	EA	1,000	\$ 4,000.00	\$ 4,000.00	
1. ITS STRUCTURE IMPACTED BY BIKE LANE WIDENING SUBTOTAL					\$ 345,430.00	
			MOT	10%	\$ 34,543.00	
			MOBILIZATION	10%	\$ 34,543.00	
			CONTINGENCY	15%	\$ 51,814.50	
TOTAL - 1. ITS STRUCTURE IMPACTED BY BIKE LANE WIDENING					\$ 466,330.50	
2. ITS FIBER REQUESTED BY CITY OF MIAMI BEACH						
0630 2 11	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	4,760,000	\$ 17.33	\$ 82,490.80	
0630 2 12	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	2,190,000	\$ 20.23	\$ 44,303.70	
0630 2 15	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	1,000,000	\$ 42.39	\$ 42,390.00	
0633 1124	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	LF	9,480,000	\$ 3.64	\$ 34,507.20	
0633 3 11	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	EA	9,000	\$ 985.87	\$ 8,872.83	
0633 3 12	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	9,000	\$ 53.38	\$ 480.42	
0635 2 12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA	8,000	\$ 1,779.63	\$ 14,237.04	
0635 2 13	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	EA	9,000	\$ 4,152.80	\$ 37,375.20	
2. ITS FIBER REQUESTED BY CITY OF MIAMI BEACH SUBTOTAL					\$ 264,657.19	
			MOT	10%	\$ 26,465.72	
			MOBILIZATION	10%	\$ 26,465.72	
			CONTINGENCY	15%	\$ 39,698.58	
TOTAL - 2. ITS FIBER REQUESTED BY CITY OF MIAMI BEACH SUBTOTAL					\$ 357,287.21	
CITY OF MIAMI BEACH RESPONSIBILITY FOR ITS FIBER CONSTRUCTION (50%)					\$ 178,643.60	
ITEM 1 + 2 ITS TOTAL					\$ 644,974.10	

3. UTILITY WORK BY HIGHWAY CONTRACTOR (SEE APPENDIX A2 FOR CITY OF MIAMI BEACH OPINION OF PROBABLE COST)

UTILITY WORK BY HIGHWAY CONTRACTOR - CONSTRUCTION ESTIMATE ONLY - DOES NOT INCLUDE DESIGN FEE					
TOTAL - UTILITY WORK BY HIGHWAY CONTRACTOR					\$ 6,418,805.40

429193-1: SR 907/Alton Road from Michigan Ave to S of Ed Sullivan Dr/43 Street
 Cost Estimate for City of Miami Beach Requested Items - Cost Responsibility

PAY-ITEM	PAY-ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	NOTES
	TOTAL - SEPERATED BI-DIRECTIONAL BICYCLE LANES				\$ 2,773,671.26	
	TOTAL - ITS DEVICES SOUTH OF CHASE AVENUE				\$ 644,974.10	
	TOTAL - UTILITY WORK BY HIGHWAY CONTRACTOR				\$ 6,418,805.40	
TOTAL ESTIMATED COST RESPONSIBILITY FOR CITY OF MIAMI BEACH					\$ 9,837,450.76	

Appendix A2 – 429193-1 Utility Opinion of Probable Cost

3. UTILITY WORK BY HIGHWAY CONTRACTOR

UTILITY WORK BY HIGHWAY CONTRACTOR - CONSTRUCTION ESTIMATE ONLY - DOES NOT INCLUDE DESIGN FEE

ENGINEERS OPINION OF PROBABLE COST OF CONSTRUCTION

Quantities on Alton Rd from STA: 91+00 TO 164+00

For City of Miami Beach Est. Construction 02/2025

FDOT Financial Project ID No.: 429193-1-56-01

By: LF
 Check By: DC
 Date: 3/25/2022
 Revised: 5/19/2022

ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENDED COST	unit prices	City's comments	Stanlec's Comments
12" DIP Water Main & Fittings								
1	590-4-101 IRRIGATION SYSTEM BACKFLOW/VACUUM BREAKER PREVENTION	EA	14	\$ -	\$ -	\$ -	irrigation costs by FDOT	Noted
2	1050-16-002 UTILITY PIPE, REMOVE & DISPOSE, 2" - 4.9"	LF	75	\$ 32	\$ 2,400.00	\$ 32.00	\$ 2,400.00	
3	1050-16-003 UTILITY PIPE, REMOVE & DISPOSE, 5" - 7.9"	LF	30	\$ 35	\$ 1,050.00	\$ 35.00	\$ 1,050.00	
4	1050-16-004 UTILITY PIPE, REMOVE & DISPOSE, 8" - 19.9"	LF	230	\$ 37	\$ 8,510.00	\$ 37.00	\$ 8,510.00	
5	1050-18-002 UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 2" - 4.9"	LF	950	\$ 10	\$ 9,500.00	\$ 10.00	\$ 9,500.00	
6	1050-18-003 UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 6"	LF	415	\$ 15	\$ 6,225.00	\$ 15.00	\$ 6,225.00	
	UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 8"	LF						
7	1050-18-004 UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 10"	LF	5,260	\$ 15	\$ 78,900.00	\$ 15.00	\$ 78,900.00	this number should be reduced as FDOT price is based on a very small quantity. \$10 to \$15 should be appropriate
	UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 12"	LF						Reduced to \$15
8	1050-31-102 UTILITY PIPE, F&I, PVC, WATER, 2"	LF	194	\$ 45	\$ 8,730.00	\$ 45.00	\$ 8,730.00	unit price from FDOT is very conservative and already includes fittings.
9	1050-41-102 UTILITY PIPE, F&I, PE, WATER, 2"	LF	5,175	\$ 50	\$ 258,750.00	\$ 50.00	\$ 258,750.00	unit price from FDOT is very conservative and already includes fittings.
10	1050-51-203 UTILITY PIPE, F&I, DI/CI, WATER 3"	LF	285	\$ 100	\$ 28,500.00	\$ 100.00	\$ 28,500.00	unit price from FDOT is very conservative and already includes fittings.
11	1050-51-204 UTILITY PIPE, F&I, DI/CI, WATER 4"	LF	25	\$ 165	\$ 4,125.00	\$ 165.00	\$ 4,125.00	unit price from FDOT is very conservative and already includes fittings.
12	1050-51-206 UTILITY PIPE, F&I, DI/CI, WATER, 6"	LF	280	\$ 150	\$ 42,000.00	\$ 150.00	\$ 42,000.00	unit price from FDOT is very conservative and already includes fittings.
13	1050-51-208 UTILITY PIPE, F&I, DI/CI, WATER, 8"	LF	830	\$ 175	\$ 145,250.00	\$ 175.00	\$ 145,250.00	unit price from FDOT is very conservative and already includes fittings.
14	1050-51-212 UTILITY PIPE, F&I, DI/CI, WATER, 12"	LF	5,195	\$ 200	\$ 1,039,000.00	\$ 200.00	\$ 1,039,000.00	unit price from FDOT is very conservative and already includes fittings.
15	1055-51-108 UTILITY FITTING, F&I, DI/CI, ELBOW, 8"	EA	52	\$ 2,500	\$ 130,000.00	\$ -	\$ -	fittings are already included in unit price of pipe
16	1055-51-112 UTILITY FITTING, F&I, DI/CI, ELBOW, 12"	EA	40	\$ 3,000	\$ 120,000.00	\$ -	\$ -	fittings are already included in unit price of pipe
17	1055-51-208 UTILITY FITTING, F&I, DI/CI, TEE, 8"	EA	3	\$ 2,600	\$ 7,800.00	\$ -	\$ -	fittings are already included in unit price of pipe
18	1055-51-212 UTILITY FITTING, F&I, DI/CI, TEE, 12"	EA	26	\$ 3,600	\$ 93,600.00	\$ -	\$ -	fittings are already included in unit price of pipe
19	1055-51-308 UTILITY FITTING, F&I, DI/CI, REDUCER, 8"	EA	5	\$ 2,000	\$ 10,000.00	\$ -	\$ -	fittings are already included in unit price of pipe
20	1055-51-312 UTILITY FITTING, F&I, DI/CI, REDUCER, 12"	EA	11	\$ 2,600	\$ 28,600.00	\$ -	\$ -	fittings are already included in unit price of pipe
21	1055-51-503 UTILITY FITTING, F&I, DI/CI, CAP/PLUG, 3"	EA	2	\$ -	\$ -	\$ -	\$ -	fittings are already included in unit price of pipe
22	1055-51-504 UTILITY FITTING, F&I, DI/CI, CAP/PLUG, 4"	EA	4	\$ -	\$ -	\$ -	\$ -	fittings are already included in unit price of pipe
23	1055-51-608 UTILITY FITTING, F&I, DI/CI, WYE, 8"	EA	6	\$ 2,500	\$ 15,000.00	\$ -	\$ -	fittings are already included in unit price of pipe
24	1060-15 UTILITY STRUCTURE, BELOW GROUND, ADJUST/MODIFY	EA	55	\$ 400	\$ 22,000.00	\$ 400.00	\$ 22,000.00	please use \$400 based on current projects being negotiated with FDOT. It includes 15% for escalation
25	1070-1-1 UTILITY AUXILIARY ITEMS, 8" CONCRETE SLAB FOR GROUND < 2.5'	SF	1,160	\$ 50	\$ 58,000.00	\$ -	\$ -	this is already included in the adjustment cost
26	1080-21-102 UTILITY FIXTURE, F&I, 2", METER/VALVE BOX	EA	117	\$ 2,450	\$ 286,650.00	\$ 2,450.00	\$ 286,650.00	please use \$2450 based on current projects being negotiated with FDOT. It includes 15% for escalation
27	1080-21-500 UTILITY FIXTURE, VALVE/METER BOX, ADJUST	EA	17	\$ 400	\$ 6,800.00	\$ 400.00	\$ 6,800.00	please use \$400 based on current projects being negotiated with FDOT. It includes 15% for escalation
28	1080-21-600 UTILITY FIXTURE, REMOVE & DISPOSE (WATER METER)	EA	133	\$ 200	\$ 26,600.00	\$ -	\$ -	this is already included in the new meter box
29	1080-23-103 UTILITY FIXTURE, F&I, 3", SOLID SLEEVE	EA	1	\$ -	\$ -	\$ -	\$ -	this is already included in the unit cost of the new pipe
30	1080-23-104 UTILITY FIXTURE, F&I, 4", SOLID SLEEVE	EA	2	\$ -	\$ -	\$ -	\$ -	this is already included in the unit cost of the new pipe
31	1080-23-106 UTILITY FIXTURE, F&I, 6", SOLID SLEEVE	EA	5	\$ -	\$ -	\$ -	\$ -	this is already included in the unit cost of the new pipe
32	1080-23-108 UTILITY FIXTURE, F&I, 8", SOLID SLEEVE	EA	6	\$ 5,500	\$ 33,000.00	\$ -	\$ -	this is already included in the unit cost of the new pipe
33	1080-23-110 UTILITY FIXTURE, F&I, 10", SOLID SLEEVE	EA	1	\$ 6,500	\$ 6,500.00	\$ -	\$ -	this is already included in the unit cost of the new pipe
34	1080-23-112 UTILITY FIXTURE, F&I, 12", SOLID SLEEVE	EA	3	\$ 7,500	\$ 22,500.00	\$ -	\$ -	
	UTILITY FIXTURE, F&I, 12", TAPPING SLEEVE	EA				\$ 7,500.00	\$ 22,500.00	
35	1080-24-103 UTILITY FIXTURE, F&I, 3", VALVE ASSEMBLY	EA	2	\$ 1,400	\$ 2,800.00	\$ 1,400.00	\$ 2,800.00	
36	1080-24-104 UTILITY FIXTURE, F&I, 4", VALVE ASSEMBLY	EA	5	\$ 1,400	\$ 7,000.00	\$ 1,400.00	\$ 7,000.00	
37	1080-24-106 UTILITY FIXTURE, F&I, 6", VALVE ASSEMBLY	EA	11	\$ 2,600	\$ 28,600.00	\$ 2,600.00	\$ 28,600.00	quantity seems too high. Please verify
38	1080-24-112 UTILITY FIXTURE, F&I, 12", VALVE ASSEMBLY	EA	24	\$ 4,700	\$ 112,800.00	\$ 4,700.00	\$ 112,800.00	quantity seems too high. Please verify
39	1080-26-102 UTILITY FIXTURE, F&I, 2", FVO ASSEMBLY	EA	20	\$ 3,800	\$ 76,000.00	\$ 3,800.00	\$ 76,000.00	quantity seems too high. Please verify
	UTILITY FIXTURE, F&I, 2", AIR ASSEMBLY	EA				\$ -	\$ -	
40	1644-113-08 FIRE HYDRANT, F&I, STD, 2 WAY, FLUSH TYPE, ONE PUMPER, 6"	EA	12	\$ 5,100	\$ 61,200.00	\$ 5,100.00	\$ 61,200.00	
41	1644-900 FIRE HYDRANTS (REMOVE)	EA	10	\$ 1,000	\$ 10,000.00	\$ 1,000.00	\$ 10,000.00	this is already included in the new hydrant
Subtotal WM IMPROVEMENTS					\$ 2,798,390.00	\$ 2,269,290.00		
PS, FM, Gravity Sewer & Laterals								
42	1050-18-003 UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 5.0-18"	LF	4,000	\$ 15	\$ 60,000.00	\$ 15.00	\$ 60,000.00	this number should be reduced as FDOT price is based on a very small quantity. \$10 to \$15 should be appropriate
43	1050-31-206 UTILITY PIPE, F&I, PVC, SEWER, 5"	LF	4600	\$ 85.00	\$ 391,000.00	\$ 85.00	\$ 391,000.00	
44	1050-31-208 UTILITY PIPE, F&I, PVC, SEWER, 8" thru 18"	LF	4,000	\$ 150	\$ 600,000.00	\$ 150.00	\$ 600,000.00	
45	1055-31-608 UTILITY FITTING, F&I, PVC, WYE	EA	46	\$ 200	\$ 9,200.00	\$ 200.00	\$ 9,200.00	this cost is OK because it is part of the service connection
46	1055-31-606 UTILITY FITTING, F&I, PVC, CLEAN OUT	EA	46	\$ 200	\$ 9,200.00	\$ 200.00	\$ 9,200.00	this cost is OK because it is part of the service connection
47	1050-51-308 UTILITY PIPE, F&I, DI/CI, SEWER, 8"	LF	200	\$ 150	\$ 30,000.00	\$ 150.00	\$ 30,000.00	assume is a PVC
48	1060-11-212 UTILITY STRUCTURE, BELOW GROUND, F&I, SEWER, 0-80FT3, 6.1-12'	EA	2	\$ 9,000	\$ 18,000.00	\$ 9,000.00	\$ 18,000.00	
49	1060-11-222 UTILITY STRUCTURE, BELOW GROUND, F&I, SEWER, >80FT3, 6.1-12'	EA	8	\$ 12,000	\$ 96,000.00	\$ 12,000.00	\$ 96,000.00	
50	1060-15 UTILITY STRUCTURE, BELOW GROUND, ADJUST/MODIFY	EA	4	\$ 4,000	\$ 16,000.00	\$ 4,000.00	\$ 16,000.00	
51	1060-16 UTILITY STRUCTURE, BELOW GROUND, REMOVE & DISPOSE	EA	9	\$ 3,500	\$ 31,500.00	\$ 7,500.00	\$ 67,500.00	
52	1501-1 UTILITY LIFT STATION SANITARY SEWER (TEMPORARY BY-PASS SYSTEM)	EA	1	\$ 35,000	\$ 35,000.00	\$ -	\$ -	this does not apply since there is no existing PS
53	1501-1 UTILITY LIFT STATION SANITARY SEWER (PS 1 at W 28th)	EA	1	\$ 1,000,000	\$ 1,000,000.00	\$ 1,000,000.00	\$ 1,000,000.00	this is relatively small station. Based on actual DB prices in 2018, \$0.5M assume twice as much due to escalation and cost adjustments
Subtotal SAN IMPROVEMENTS					\$ 2,295,900.00	\$ 2,295,900.00		

ENGINEERS OPINION OF PROBABLE COST OF CONSTRUCTION
Quantities on Alton Rd from STA: 91+00 TO 164+00
 For City of Miami Beach Est. Construction 02/2025
 FDOT Financial Project ID No.: 429193-1-56-01

By: LF
 Check By: DC
 Date: 3/25/2022
 Revised: 5/19/2022


ITEM	DESCRIPTION	UNITS	QUANTITY	UNIT PRICE	EXTENDED COST	unit prices	City's comments	Stantec's Comments
	Subtotal Entire Project				\$ 5,094,290.00			
						\$ 4,566,190.00		
	Maintenance of Traffic	percent of construction		5.0%	\$ 254,714.50	5% \$ 228,309.50	This should be an FDOT cost and not City. Assume conservatively	It is shared cost between City and FDOT. I can reduce to 5% but note is was previously submitted to FDOT at 10% and we may get some push back.
	Mobilization	percent of construction		5.0%	\$ 254,714.50	5% \$ 228,309.50	This should be an FDOT cost and not City. Assume conservatively	It is shared cost between City and FDOT. I can reduce to 5% but note is was previously submitted to FDOT at 10% and we may get some push back.
	Contingency Fund	percent of construction		10.0%	\$ 509,429.00	10% \$ 456,619.00	OK	
	Construction Engineering Administration (CEA)	percent of construction		6.0%	\$ 305,657.40	5% \$ 228,309.50		This % cannot be change per FDOT
	Subtotal Construction Allowances				\$ 1,324,515.40	\$ 1,141,547.50		
	Total Estimated Cost of Utility Work				\$6,418,805.40	\$5,707,737.50		

Appendix B – 429193-1 Plan Sheets Reflecting CMB Costs



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C. MATCH LINE STA. 194+00.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION


FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE STA. 199+80.00

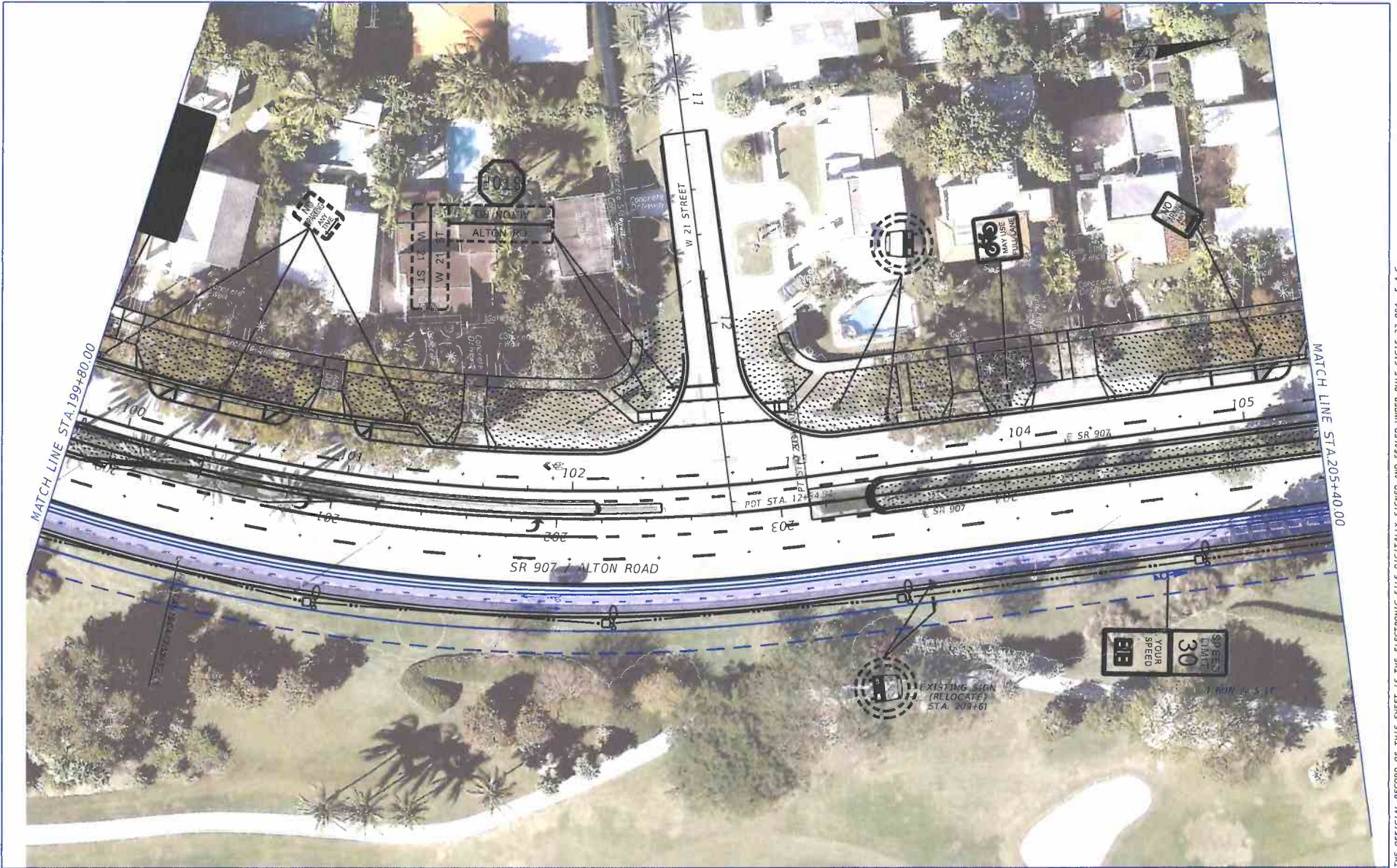
MATCH LINE STA. 194+00.00

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		ROAD NO. SR 907 COUNTY MIAMI-DADE FINANCIAL PROJECT ID 429193-I-52-01	
FOOT DISTRICT SIX RAYMOND VALDIVO, P.E. 1000 N.W. 111 AVENUE MIAMI, FLORIDA 33172 P.E. NO. 79581		ROAD NO. SR 907 COUNTY MIAMI-DADE FINANCIAL PROJECT ID 429193-I-52-01	

ROADWAY PLAN	
SHEET NO.	3103174

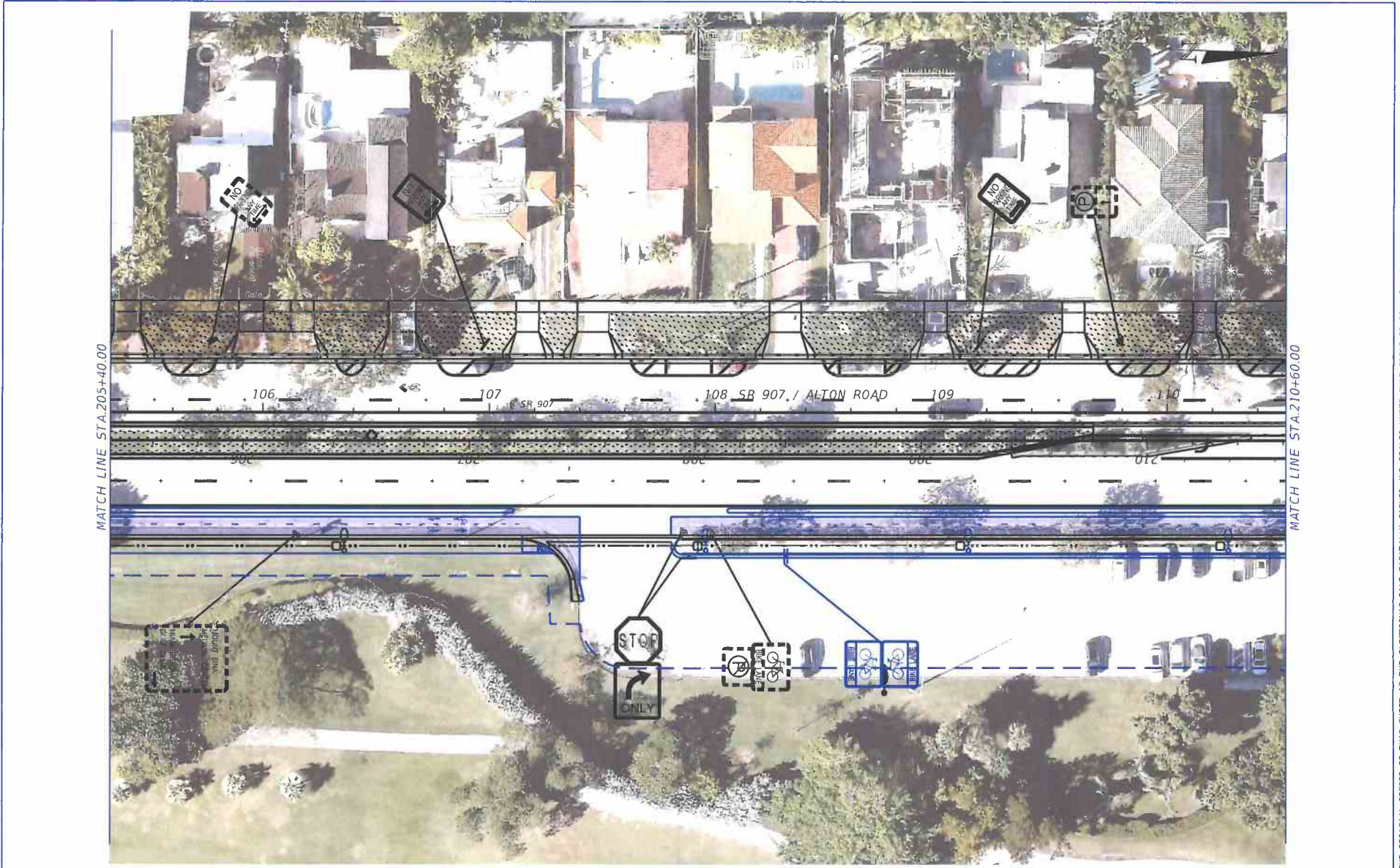
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				 FDOT DISTRICT SIX RAYMOND VALIDO, P.E. 1000 N.W. 111 AVENUE MIAMI, FLORIDA 33172 P.E. NO. 79581	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 907	MIAMI-DADE	429193-1-52-01		

ROADWAY PLAN



MATCH LINE STA. 205+40.00

MATCH LINE STA. 210+60.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



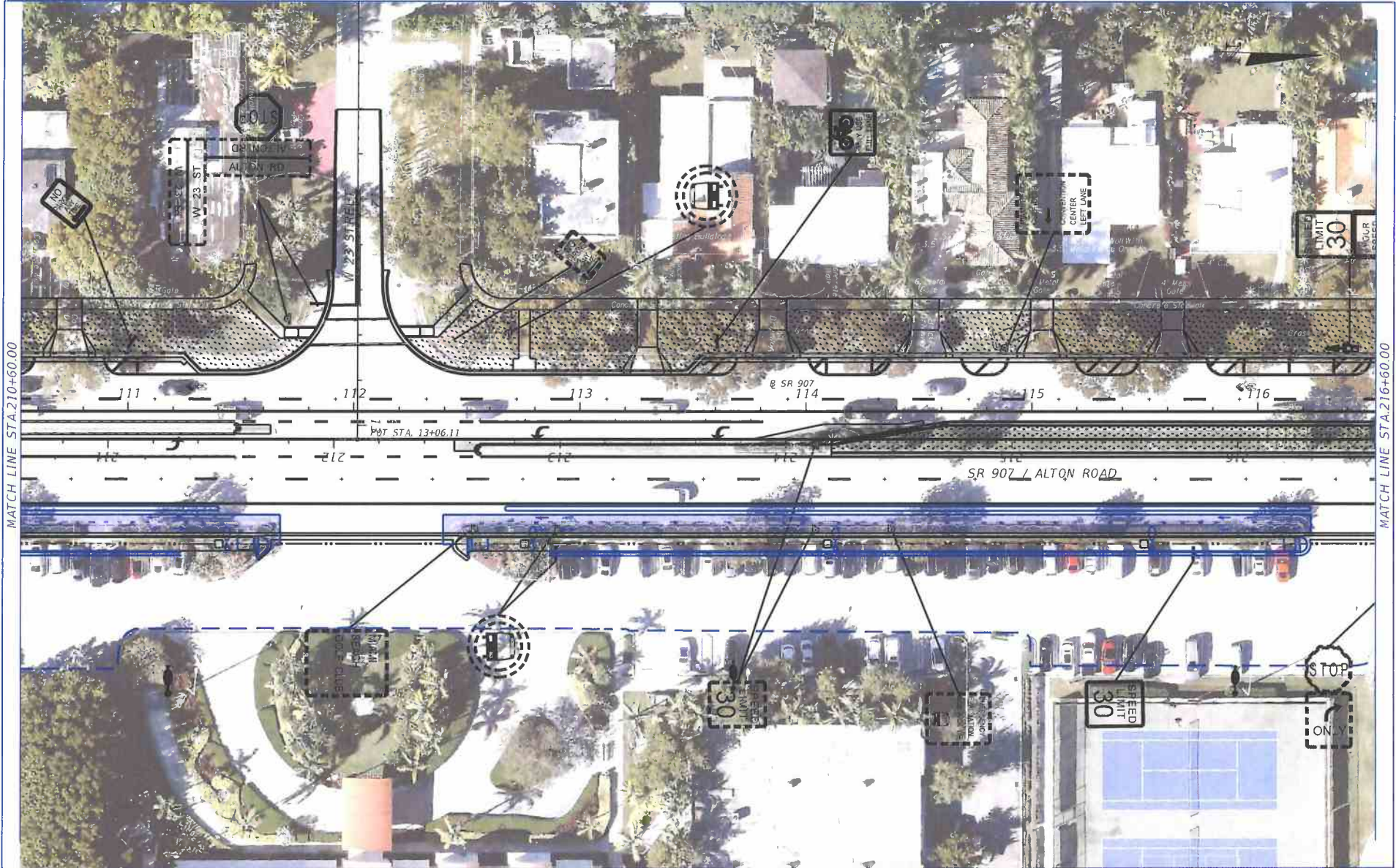
FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE STA.210+60.00

MATCH LINE STA.216+60.00

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

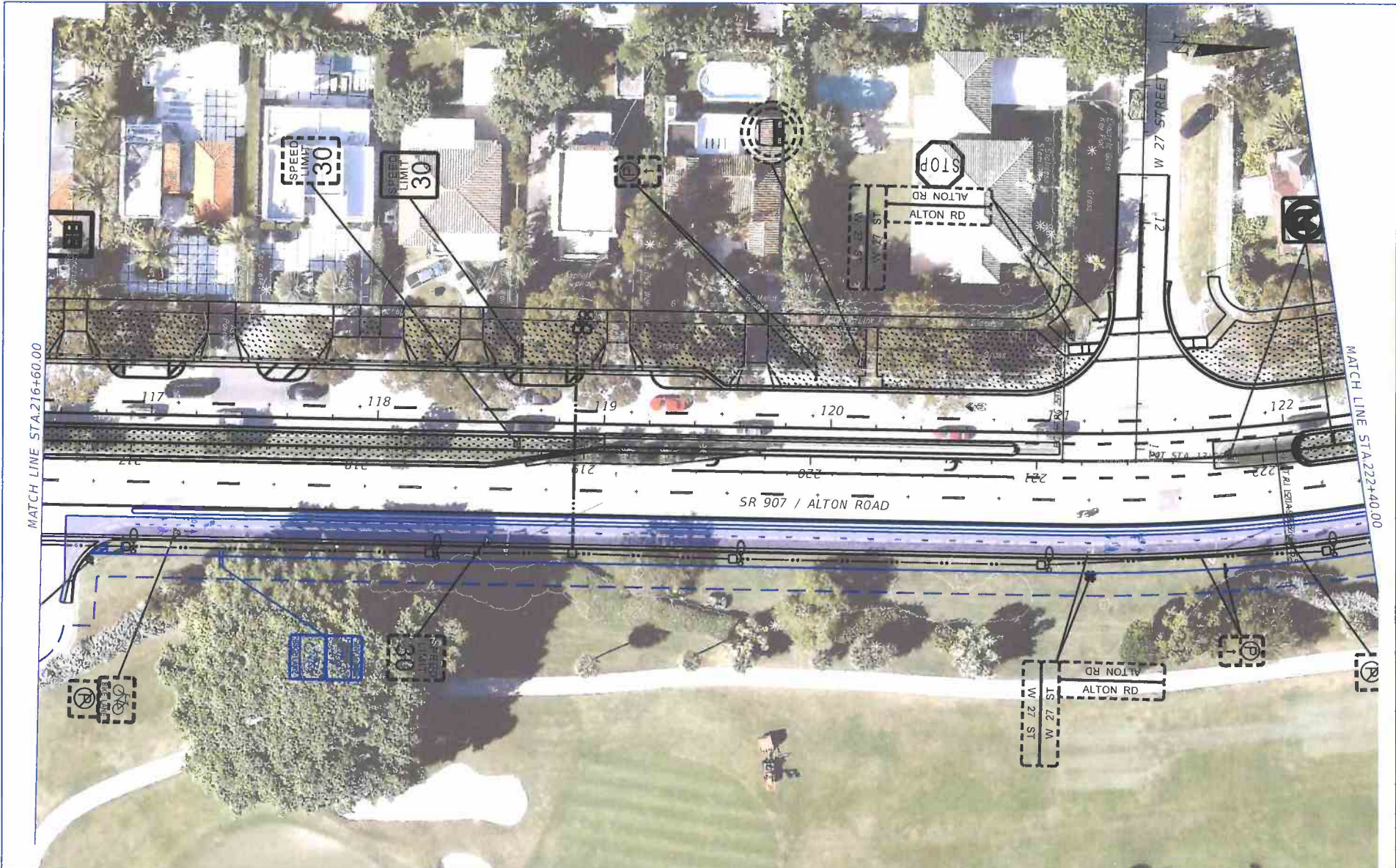
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.



MATCH LINE STA. 216+60.00

MATCH LINE STA. 222+40.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

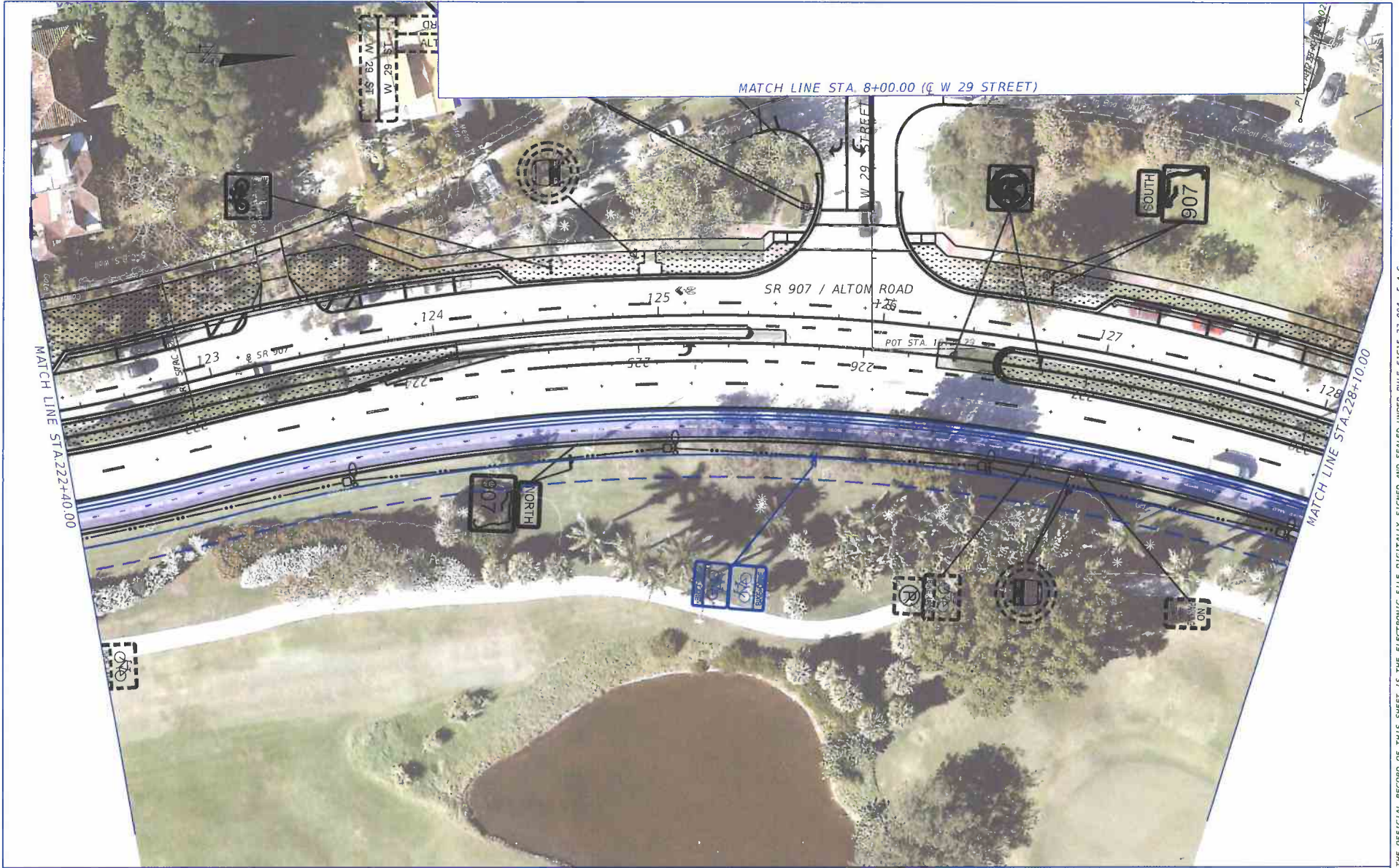
FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.

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REVISIONS			
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.




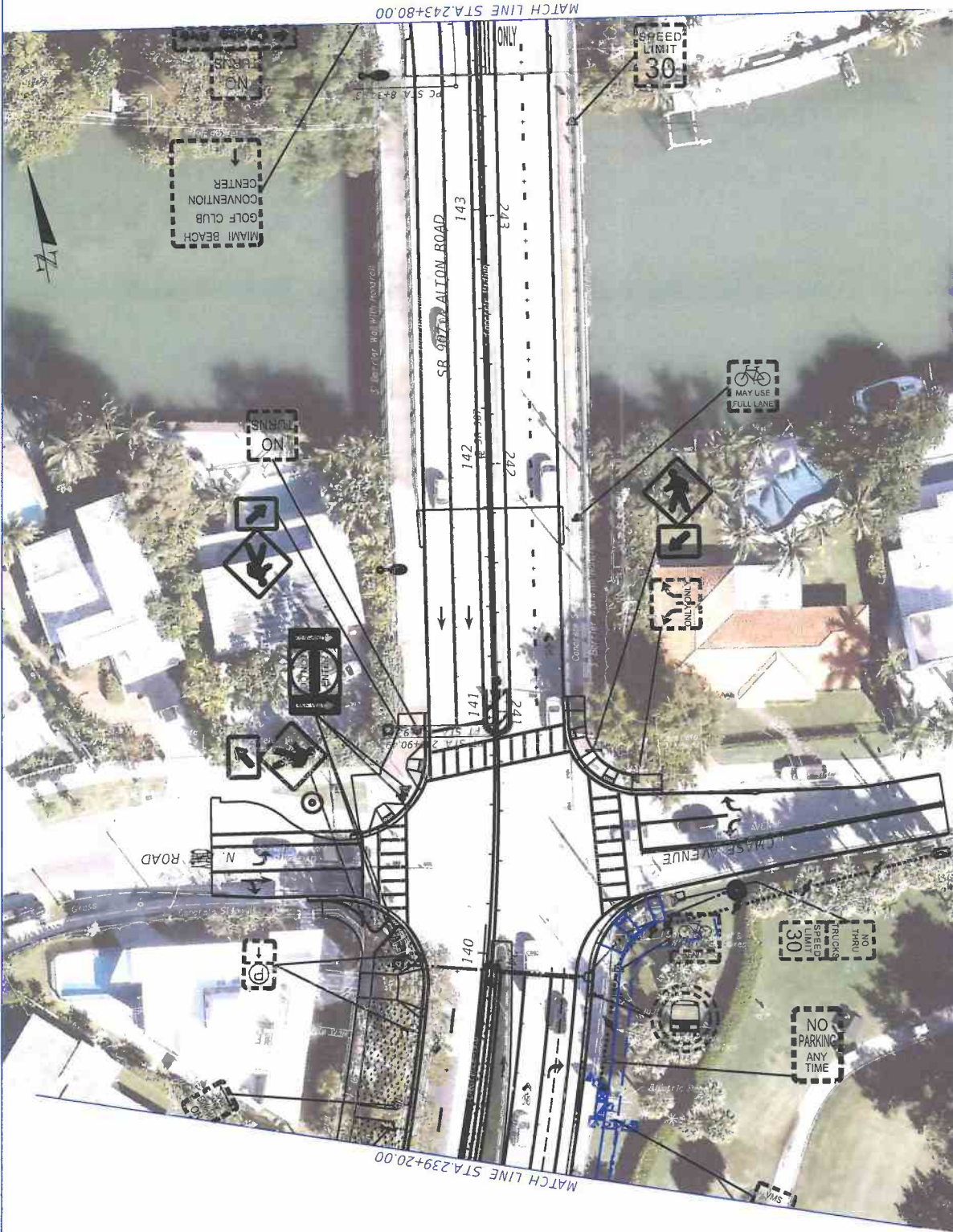
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				 FDOT DISTRICT SIX RAYMOND VALIDO, P.E. 1000 N.W. 111 AVENUE MIAMI, FLORIDA 33172 P.E. NO. 79581	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 907	MIAMI-DADE	429193-1-52-01			



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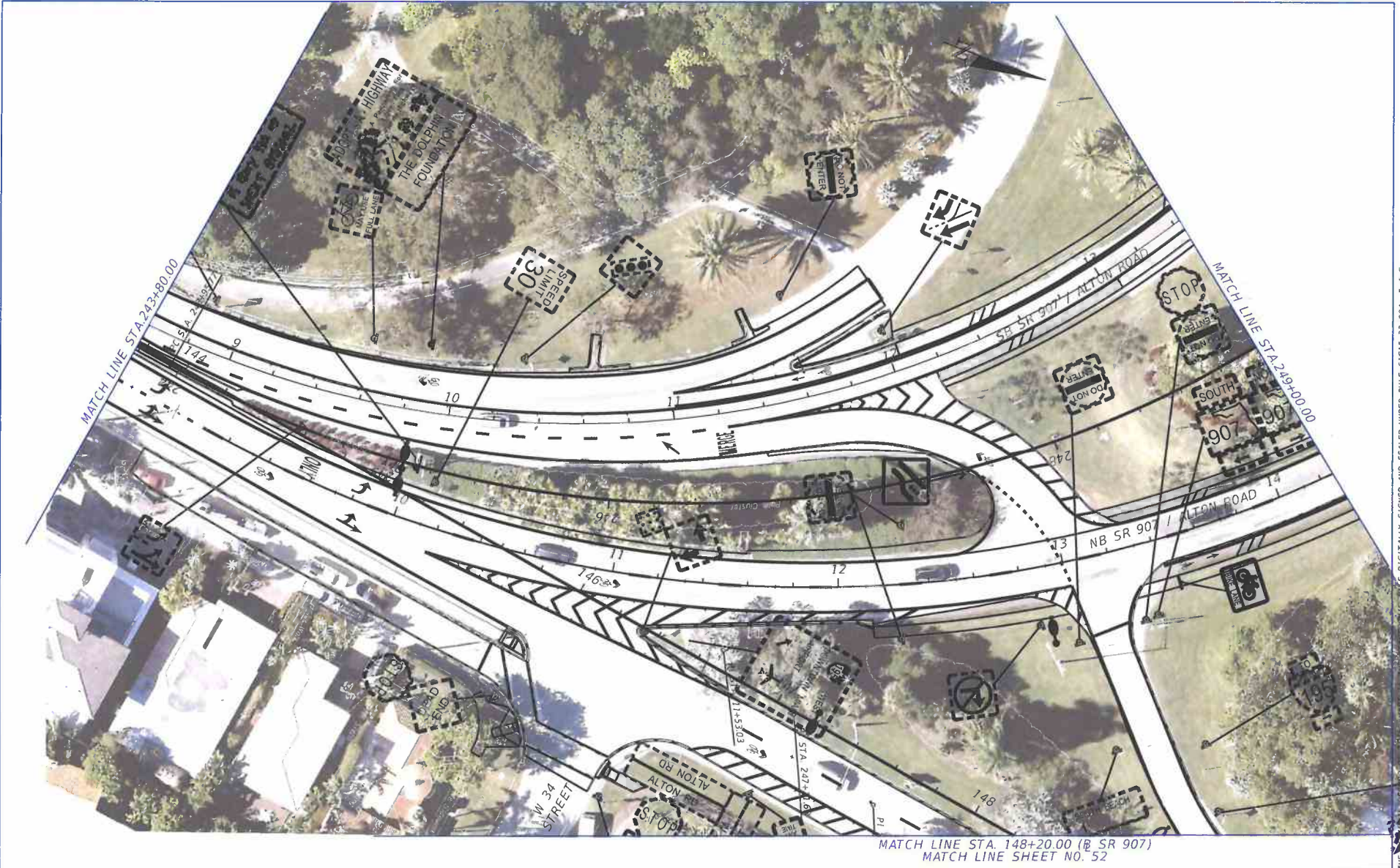
REVISIONS		DATE	DESCRIPTION	 FDOT DISTRICT SIX RAYMOND VALIDO, P.E. 1000 N.W. 111 AVENUE MIAMI, FLORIDA 33172 P.E. NO. 79581	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PLAN	SHEET NO.
DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 907	MIAMI-DADE	429193-1-52-01		



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		ROAD NO. SR 907 COUNTY MIAMI-DADE		FINANCIAL PROJECT ID 429193-I-52-01	
ROADWAY PLAN					
FOOT DISTRICT SIX RAYMOND VALDO, P.E. 1000 N.W. 111 AVENUE MIAMI, FLORIDA 33172 P.E. NO. 79581					

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MATCH LINE STA. 148+20.00 (B SR 907)
MATCH LINE SHEET NO. 52

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

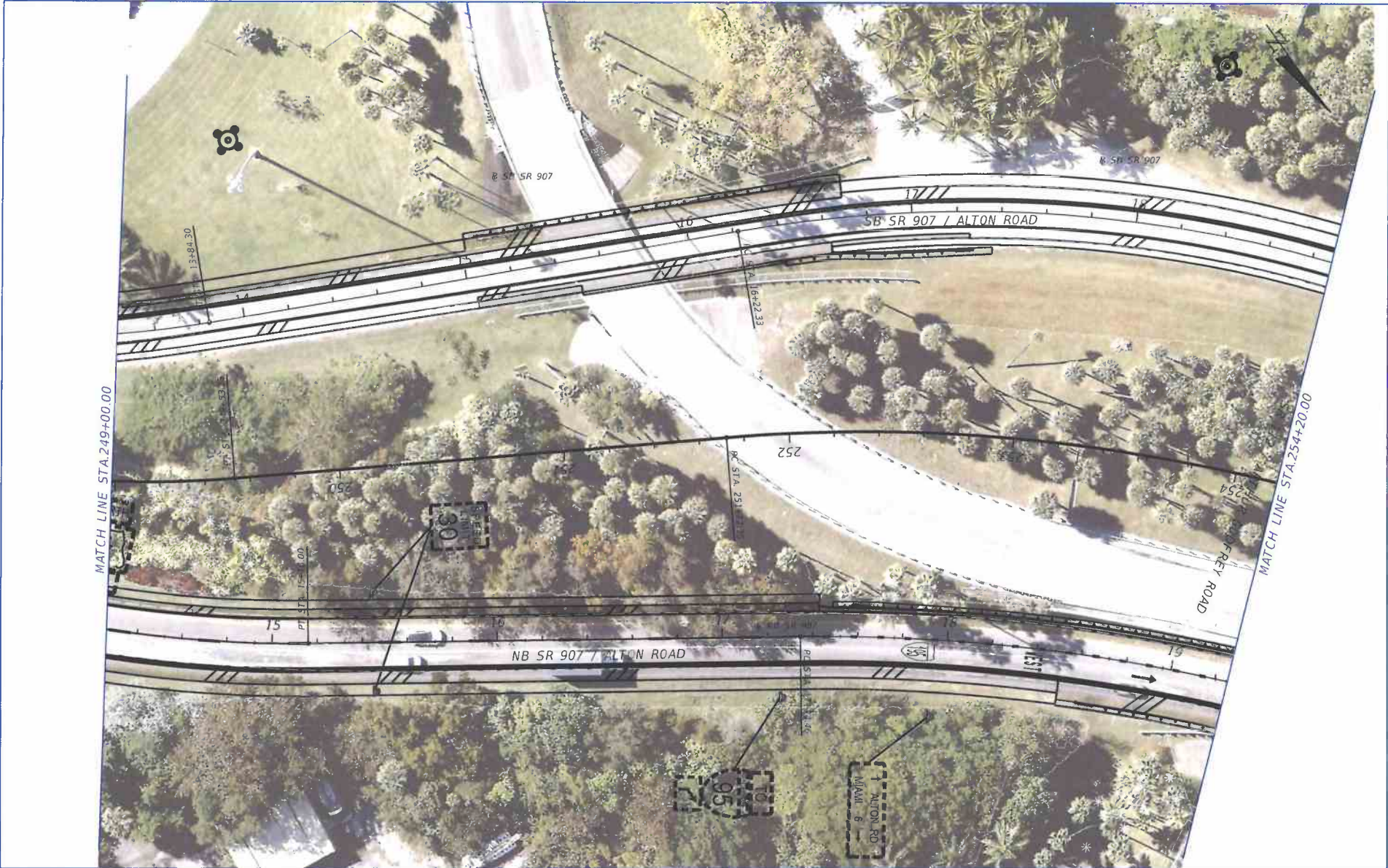
FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-I-52-01

ROADWAY PLAN

SHEET NO.

THIS PLAN IS A COMPUTER GENERATED FILE. IT IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

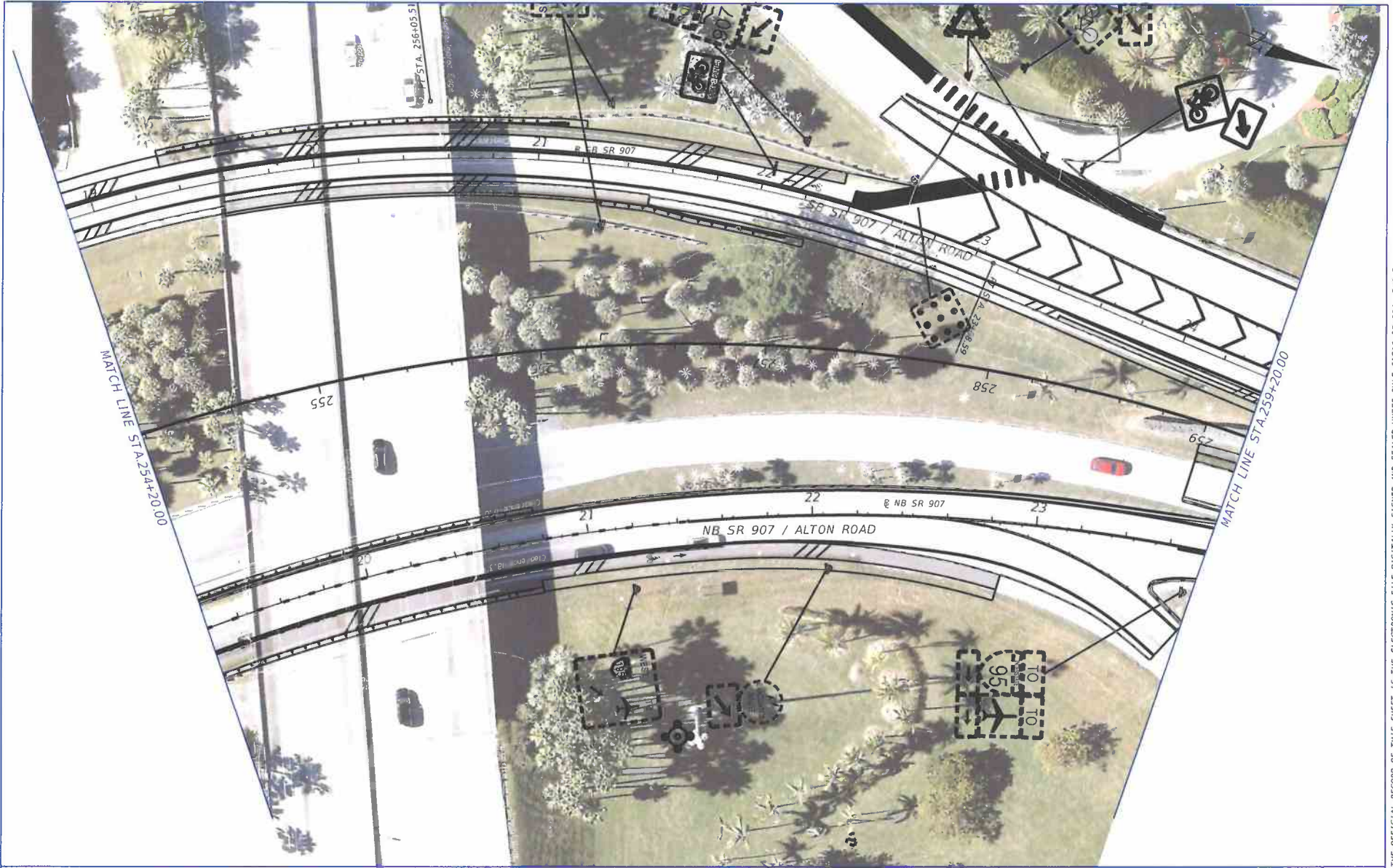
FDOT
 DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-I-52-01

ROADWAY PLAN

SHEET NO.

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REVISIONS			
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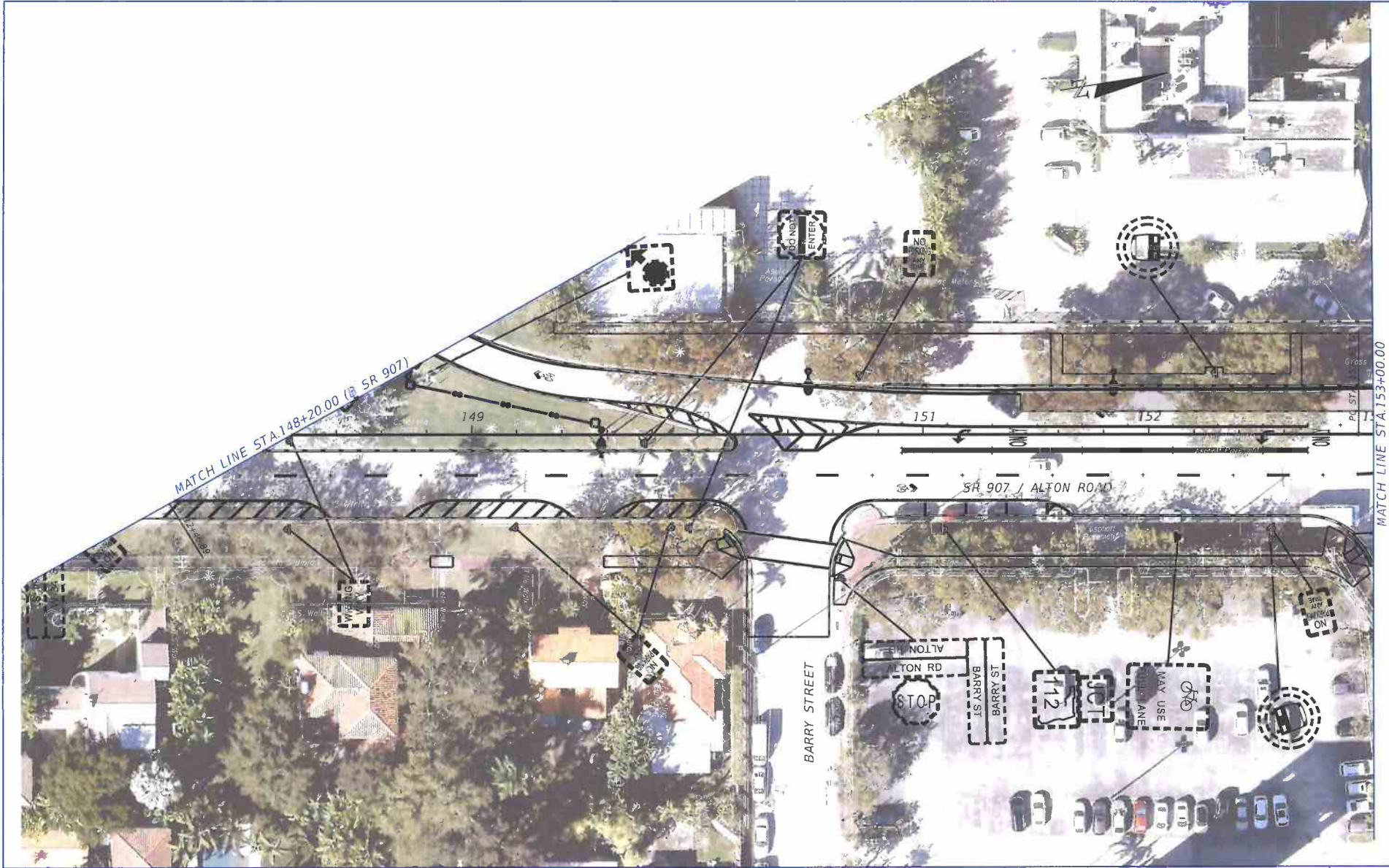
FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.

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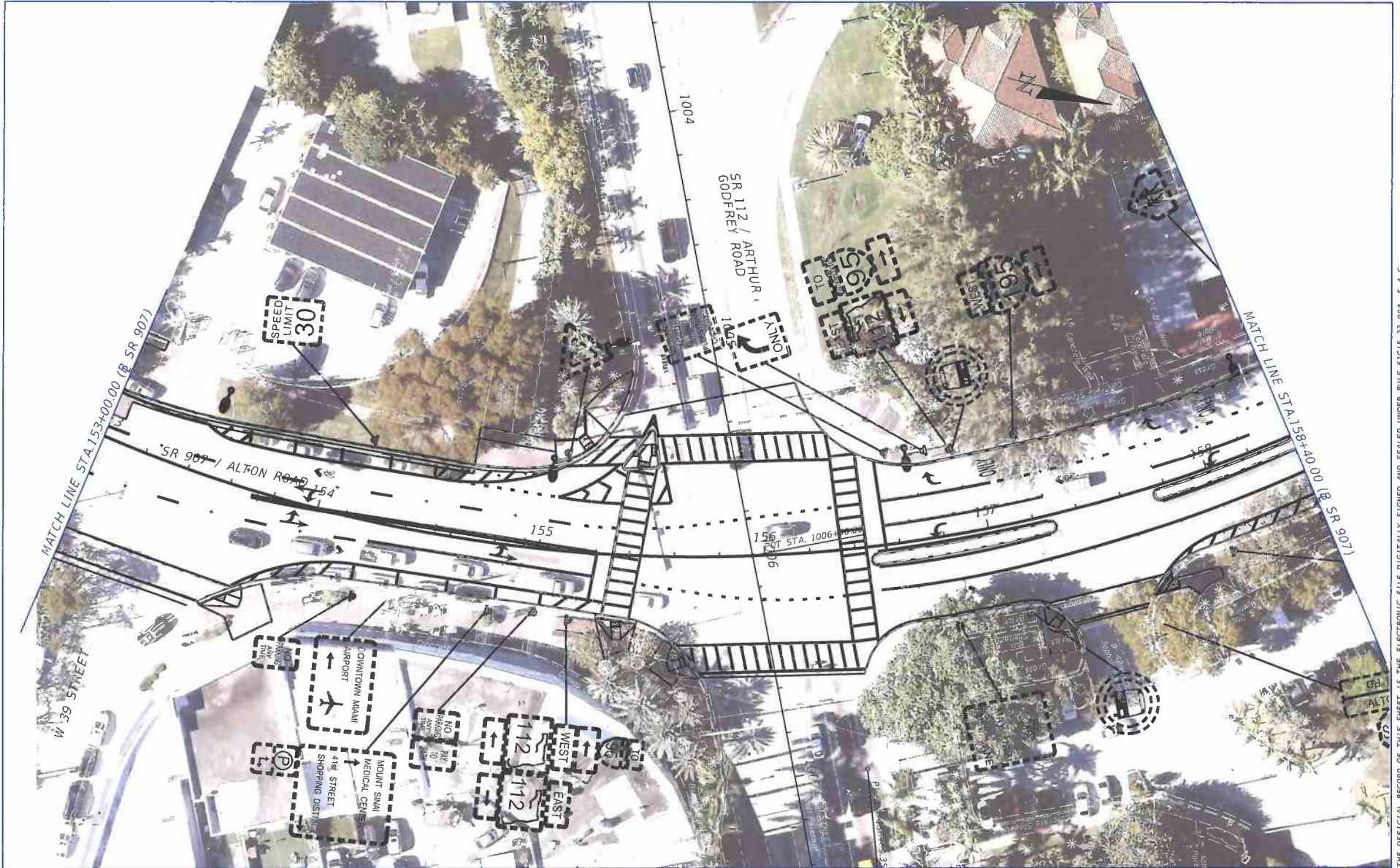
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581


STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.



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REVISIONS		REVISIONS		 FDOT DISTRICT SIX RAYMOND VALIDO, P.E. 1000 N.W. 111 AVENUE MIAMI, FLORIDA 33172 P.E. NO. 79581	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		ROADWAY PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
					SR 907	MIAMI-DADE	429193-1-52-01	



MATCH LINE STA. 158+40.00 (SR 907)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE STA. 2+00.00 @ W 29 STREET
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

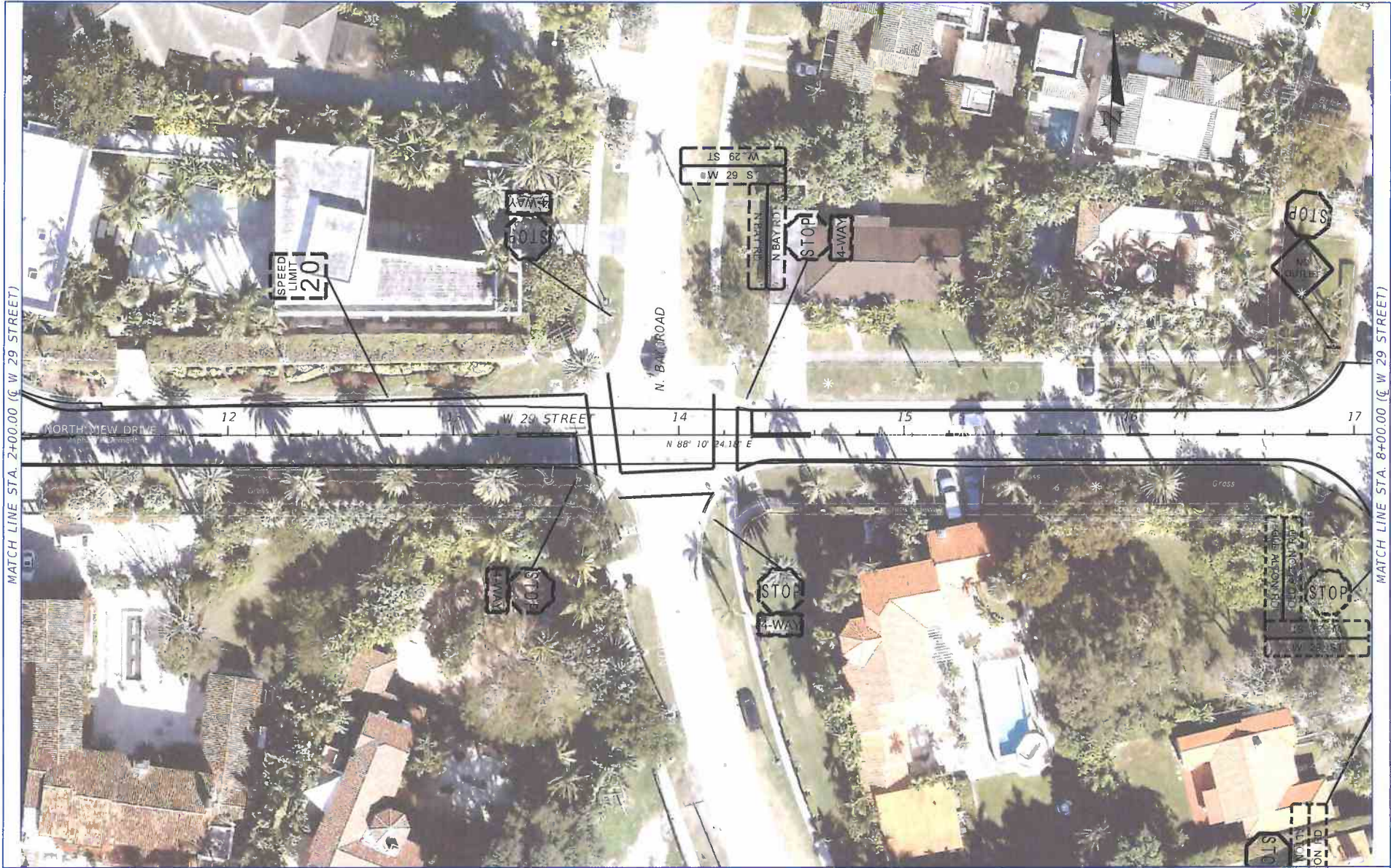
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-I-52-01

ROADWAY PLAN

SHEET NO.



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

FDOT
 FDOT DISTRICT SIX
 RAYMOND VALIDO, P.E.
 1000 N.W. 111 AVENUE
 MIAMI, FLORIDA 33172
 P.E. NO. 79581

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	429193-1-52-01

ROADWAY PLAN

SHEET NO.

Appendix C – CMB ITS Plans

CONTRACT PLANS COMPONENTS

INTELLIGENT TRANSPORTATION SYSTEM

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

CONTRACT PLANS

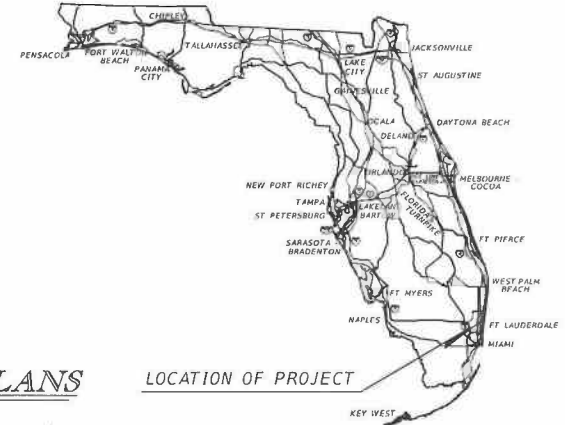
FINANCIAL PROJECT ID 429193-1-52-01

MIAMI-DADE COUNTY

STATE ROAD NO. 907 (ALTON RD)

FIBER OPTIC CABLE INSTALLATION

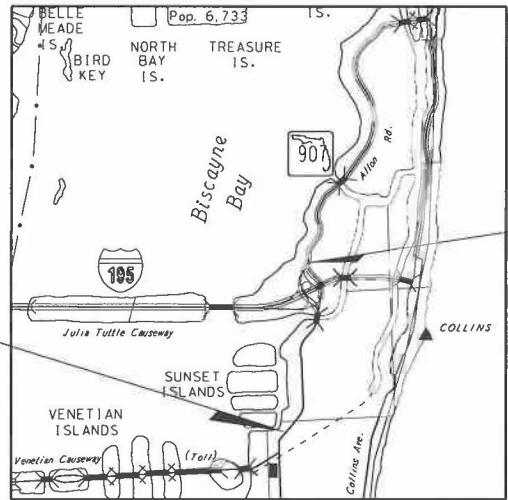
INTELLIGENT TRANSPORTATION SYSTEMS PLANS



LOCATION OF PROJECT

INDEX OF ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2	TABULATION OF QUANTITIES
IT-3 AND IT-4	PROJECT NOTES
IT-5	PROJECT LAYOUT
IT-6 THRU IT-19	ITS PLAN
IT-20	DIRECTIONAL BORE, TRENCH AND CONDUIT DETAIL
IT-21	BRIDGE MOUNTED CONDUIT DETAIL
IT-22	PULL BOX AND SPLICE BOX DETAIL
IT-23	CONCRETE APRON DETAIL
IT-24	FIBER MARKER DETAIL
IT-25	MAINTENANCE OF TRAFFIC PROJECT NOTES



BEGIN PROJECT
FPID 429193-1-52-01
INTERSECTION OF
SR 907 (MP 1.540)
AND MICHIGAN AVE.

END PROJECT
FPID 429193-1-52-01
INTERSECTION OF
SR 907 (MP 2.923)
AND NORTH BAY ROAD

**ITS PLANS
ENGINEER OF RECORD:**

JILL ANN CAPELLI, P.E.
P.E. NO.: 62365
KIMLEY-HORN AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND PLANNERS
600 NORTH PINE ISLAND ROAD, SUITE 450
PLANTATION, FLORIDA 33324
PHONE (954) 535-5100
CONTRACT NO. -----
VENDOR NUMBER VF-560-885-615-001
CERTIFICATE OF AUTHORIZATION NO. 696

FDOT PROJECT MANAGER:
JAVIER RODRIGUEZ, P.E.

**CITY OF MIAMI BEACH
PROJECT MANAGER:**
JOSIEL FERRER-DIAZ, E.I.

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2017-18 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2017 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks>

REVISIONS:

KEY SHEET REVISIONS	
DATE	DESCRIPTION

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	17	IT-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS															SUBTOTAL				
			IT-6		IT-7		IT-8		IT-9		IT-10		IT-11		IT-12		IT-13		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	150		565		580		220		560		460		550		545		3070			
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	180					340				100						1180				
0630 2 15	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT	LF																				
0633 1124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	630		765		580		760		760		610		750		595		5450			
0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	2		1			1		1		1		1				6				
0633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	2		1			1		1				1				6				
0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA										1				1		2				
0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	2		1			1		1			1		1			6				

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS															SUBTOTAL		GRAND TOTAL		
			IT-14		IT-15		IT-16		IT-17		IT-18		IT-19				PLAN	FINAL	PLAN	FINAL		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	575		160		335				180		440					1690		4760		
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			90				540		380							1010		2190		
0630 2 15	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT	LF			620		380											1000		1000		
0633 1124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	575		890		625		590		810		540					4030		9480		
0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA			1					1		1						3		9		
0633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA			1					1		1						3		9		
0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			2		2		1		1							6		8		
0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA			1					1		1						3		9		

REVISIONS DATE DESCRIPTION DATE DESCRIPTION				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID 907 MIAMI-DADE 429193-1-52-01			TABULATION OF QUANTITIES SHEET NO. IT-2
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GENERAL NOTES

1. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM CONTRACT RESPONSIBILITIES FOR THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE FOLLOWING: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD); FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS); FDOT DESIGN STANDARDS AND ANY APPLICABLE DESIGN STANDARDS FOR FDOT, MIAMI-DADE COUNTY, AND THE CITY OF MIAMI BEACH.
 3. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE OF THE OTHER PROJECTS, AND FOR THE AMOUNT OF COORDINATION REQUIRED. CONTRACTOR SHALL COORDINATE ANY AND ALL CONSTRUCTION ACTIVITIES AND TRAFFIC CONTROL PHASES WITH ANY CONTRACTOR WITHIN PROJECT LIMITS.
 4. THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL THE EQUIPMENT TECHNICAL SPECIAL PROVISIONS, DESIGN AND SHOP DRAWINGS FOR ALL MATERIAL PROPOSED FOR THIS PROJECT. EQUIPMENT MUST BE APPROVED BEFORE PROCUREMENT ORDER IS FILLED.
 5. THE CONTRACTOR SHALL OBTAIN ALL RAILROAD, CANAL CONSTRUCTION AND ENVIRONMENTAL PERMITS REQUIRED FOR THE PROJECT FROM APPLICABLE JURISDICTIONS, AGENCIES, THE FDOT, MIAMI-DADE COUNTY, AND THE CITY OF MIAMI BEACH.
 6. SOME PARKS, SCHOOLS, AND OTHER PUBLIC FACILITIES MAY BE LOCATED NEAR THE PROJECT LIMITS. NO STAGING SHALL BE DONE IN ANY OF THESE AREAS UNLESS APPROVED BY THE FDOT, MIAMI-DADE COUNTY, AND THE CITY OF MIAMI BEACH.
 7. ALL REMOVED EQUIPMENT OR MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR, EXCEPT AS STIPULATED IN THE PROJECT REQUIREMENTS.
 8. ANY AREA THAT IS DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE, AND RESTORED (AT A MINIMUM) TO EXISTING CONDITION PRIOR TO CONSTRUCTION IN ACCORDANCE WITH FDOT SPECIFICATION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION ACTIVITIES AND NO ADDITIONAL PAYMENT SHALL BE MADE.
 9. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF PUBLIC ROW IN A REGULATORY FLOOD ZONE AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS.
 10. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL QUALITY OF ALL TRENCHING AND EXCAVATION RESTORATIONS. THESE RESTORATIONS SHALL BE PERFORMED IN ACCORDANCE WITH FDOT STANDARDS AND SPECIFICATIONS.
 11. PAVEMENT MARKINGS SHALL BE RESTORED IF DAMAGED OR DESTROYED BY THE CONTRACTOR. NO ADDITIONAL PAYMENTS WILL BE MADE.
 12. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN SECTION 104 OF THE MOST RECENT FDOT STANDARD SPECIFICATIONS REGARDING THE PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION AND AS PER DETAILS SHOWN IN THESE PLANS. THE COST FOR THIS COMPLIANCE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
 13. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED OR STORED WITHIN THE CLEAR ZONE OF THE ROADWAY. IF THE ABOVE IS NOT POSSIBLE, A STORAGE AREA WITH PROPER DELINEATION AND ADVANCED WARNING SHALL BE USED WITH THE APPROVAL OF THE FDOT.
 14. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND SUNSHINE STATE ONE CALL (800-432-4770) TWO BUSINESS DAYS PRIOR TO ANY EXCAVATION. A CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT WHEN THE UTILITY COMPANIES LOCATE THEIR FACILITIES, DETERMINE WITH THE UTILITY REPRESENTATIVE THE LOCATION OF THE EXISTING UTILITIES, WHEN NECESSARY DURING OR PRIOR TO CONSTRUCTION.
-
15. IT IS THE INTENT OF THESE PLANS THAT THE CONDUITS BE INSTALLED IN SUCH A MANNER SO AS TO COMPLETELY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. TAKE RESPONSIBILITY TO OBTAIN INFORMATION NECESSARY TO PLAN THE WORK TO PROVIDE FOR THE INSTALLATION OF THE REQUIRED CONDUITS WITHIN SPECIFIED PARAMETERS, AND TIME FRAME.
 16. HAND DIG WHEN EXCAVATING NEAR AN EXISTING UTILITY. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. USE EXTREME CAUTION WHEN EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND EXISTING UTILITIES.
 17. ALL EXISTING UTILITIES, FIBER OPTIC CONDUITS, FIBER OPTIC CABLES, FIBER OPTIC SPlice ENCLOSURES, VAULTS, POLES, PULL BOXES, BURIED ELECTRICAL ARE TO REMAIN UNLESS OTHERWISE NOTED.
 18. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED IN PLACE AND REMAIN UNLESS OTHERWISE NOTED.
 19. ALL PUBLIC LAND CORNERS WITH SURVEY MONUMENTS WITHIN THE LIMITS WILL BE AVOIDED DURING CONSTRUCTION. IF A PUBLIC LAND CORNER AND MONUMENT WILL BE IN CONFLICT WITH PROPOSED CONSTRUCTION THE CONTRACTOR SHALL RETAIN A PROFESSIONAL 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 REFRAIN THE LAND SURVEY TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK. ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE COUNTY A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. ALL REFERENCE POINTS AND BENCHMARKS FURNISHED AS INDICATED IN THE ATTACHED PLANS SHALL BE PRESERVED BY THE CONTRACTOR. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REESTABLISH AND MARK THOSE CONTROL POINTS IN A PERMANENT MANNER ON THE SURFACE OF THE COMPLETED WORK. ALL REESTABLISHED AND MARKED CONTROL POINTS SHALL BE CERTIFIED, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR IN A FDOT FIELD BOOK AND RETURNED TO THE FDOT DISTRICT LOCATION SURVEYOR.
 20. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE. FIELD ADJUSTMENTS MUST BE VERIFIED WITH AND APPROVED BY THE FDOT, MIAMI-DADE COUNTY, AND THE CITY OF MIAMI BEACH. VARIATIONS FROM PROPOSED LOCATIONS MAY BECOME NECESSARY.
 21. SPOIL RESULTING FROM DRILLING AND/OR UNCLASSIFIED EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL CODE, AND APPROVED BY THE FDOT, MIAMI-DADE COUNTY, AND THE CITY OF MIAMI BEACH.
 22. NO TEST BORINGS ARE TO BE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS IN ACCORDANCE WITH THE FDOT SPECIFICATIONS BEFORE CONSTRUCTION ACTIVITIES BEGIN.
 23. DURING TRENCHING OPERATIONS, THE CONTRACTOR SHALL AVOID AND MAINTAIN LANDSCAPING WHICH MIGHT BE AFFECTED BY SUCH OPERATIONS AT NO COST TO THE FDOT. IF DAMAGED, THE CONTRACTOR SHALL REPLACE THE LANDSCAPING AT NO ADDITIONAL COST. THE CONTRACTOR SHALL AVOID AND/OR PROTECT ALL TREES BY HAND DITCHING AS NECESSARY.
 24. THE CONTRACTOR SHALL PLACE ALL CONDUITS IN A MANNER THAT MINIMIZES DEFLECTION BOTH HORIZONTALLY AND VERTICALLY, THUS MINIMIZING STRESS ON CABLES DURING CABLE INSTALLATION. CONDUIT FOR FIBER OPTIC CABLE IN TRENCHES SHALL NOT DEFLECT MORE THAN 1-INCH PER FOOT VERTICALLY OR HORIZONTALLY. BENDS SHALL NOT BE PERMITTED EXCEPT AS SPECIFIED ON THE PLANS. CONDUIT SYSTEM SHALL BE INSTALLED SO THE FIBER OPTIC CABLE MAINTAINS A MINIMUM BEND RADIUS OF 20 TIMES THE CABLE DIAMETER.
 25. THE CONTRACTOR SHALL BE AWARE THAT ATT/BELLSOUTH TELEPHONE DROPS AND MIAMI-DADE COUNTY SYSTEM COMMUNICATIONS INTERCONNECT MAY EXTEND THROUGHOUT THE PROJECT. CABLE RUNS AND/OR CONDUIT, TELEPHONE INTERFACE EQUIPMENT, PULL/JUNCTION BOXES AND ANY OTHER SIGNAL OR OTHER SYSTEMS EQUIPMENT DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. DAMAGED COMMUNICATIONS CABLE SHALL BE REPLACED AS AN ENTIRE RUN, FROM JUNCTION POINT TO JUNCTION POINT AND SHALL BE TERMINATED IN JUNCTION BOXES. THE CONTRACTOR SHALL OBTAIN SYSTEMS COMMUNICATIONS INFORMATION FROM THE APPLICABLE MAINTAINING AGENCY.
 26. THE CONTRACTOR SHALL NOT ENTER FDOT AND/OR MIAMI-DADE COUNTY TRAFFIC SIGNAL DEPARTMENT FIBER PULL BOXES, OR CONTROLLER CABINETS WITHOUT CONSENT FROM THE OWNER OR MAINTAINING AGENCY.
 27. THE CONTRACTOR SHALL COORDINATE ACCESS MANAGEMENT TO ADJACENT PUBLIC FACILITIES AND PROPERTIES DURING CONSTRUCTION TO MINIMIZE SOCIAL AND SERVICE RELATED IMPACTS.
 28. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE DISTRICT CONTAMINATION IMPACT COORDINATOR (DICIC). THE CONTRACTOR SHALL PROVIDE THE DICIC WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH THE DICIC PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH AS PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.
 29. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY CONSTRUCTION-RELATED MATERIALS FROM ENTERING THE DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING INLETS CLEAN OF PAVING MATERIAL OR DEBRIS DURING THE CONSTRUCTION AT NO ADDITIONAL COST.
 30. THERE IS POTENTIAL FOR MANATEES TO BE PRESENT NEAR PROPOSED BRIDGE CONSTRUCTION ACTIVITIES. THE FDOT STANDARD MANATEE PROTECTION CONSTRUCTION CONDITIONS FOR AQUATIC-RELATED ACTIVITIES MUST BE FOLLOWED. CONTACT THE DISTRICT PERMIT ENVIRONMENTAL COORDINATOR AT (305) 470-5139 TO ENSURE ALL POSTING AND PROTECTION REQUIREMENTS ARE FULFILLED.
 31. CONTRACTOR MUST FIELD VERIFY FUNCTIONALITY BEFORE USING ANY PREEXISTING CONDUIT OR WIRE.
 32. ALL MATERIALS ARE TO BE PER THE MOST RECENT FDOT STANDARDS SPECIFICATION & APL.
 33. 316 STAINLESS STEEL SHALL BE USED FOR ALL ATTACHMENT HARDWARE.
 34. CONTRACTOR SHALL RESTORE ALL SIDEWALKS DAMAGED AS A RESULT OF CONDUIT, PULL BOX, OR SPlice BOX INSTALLATION TO A PRECONSTRUCTION CONDITION.

REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NOTES SHEET NO. IT-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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UTILITIES NOTES:

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION AND PROTECTION, REPAIR AND/OR REPLACEMENT OF ALL UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UNDERGROUND UTILITIES VERTICALLY AND HORIZONTALLY (VVH) FOR ALL CONDUIT INSTALLATIONS. THE COSTS FOR THE VVH'S SHALL BE INCLUDED IN THE COST OF THE CONDUIT. WHEN BORING UNDER PAVEMENT, THE CONTRACTOR SHALL VERIFY THE VERTICAL DEPTH BY POT HOLEING PRIOR TO SHOOTING THE BORE. ANY OTHER METHOD MUST BE APPROVED BY THE FDOT, MIAMI-DADE COUNTY, AND THE CITY OF MIAMI BEACH. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING UNDERGROUND AND ABOVEGROUND STRUCTURES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO STRUCTURES, BRIDGE SHOULDERS, GUARDRAIL, FENCING AND ROADWAY SURFACES CAUSED BY CONSTRUCTION ACTIVITIES.
3. THE EXACT LOCATION OF THE UTILITIES SHALL BE IDENTIFIED BY THE CONTRACTOR DURING CONSTRUCTION. THE UTILITIES SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT THE EXTENT OF UTILITIES ON THIS PROJECT. THE CONTRACTOR SHALL ADJUST THE CONDUIT RUNS, BORES AND SERVICE POLE PLACEMENTS TO AVOID ANY UTILITY CONFLICT IDENTIFIED BY THE LOCATES AND SIGNIFICANT CHANGE SHALL BE APPROVED BY THE FDOT, MIAMI-DADE COUNTY, AND THE CITY OF MIAMI BEACH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGNATE, LOCATE AND PROTECT ALL FDOT AND COUNTY FACILITIES LOCATED WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONSTRUCTION PROCESS.
4. AT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO DIGGING, THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA (811) AND THE APPROPRIATE UTILITY OWNERS AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT WHEN THE UTILITY COMPANIES LOCATE THEIR FACILITIES. THE LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AND THE UTILITY REPRESENTATIVE (WHEN NECESSARY) DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY UTILITY OWNER(S) THAT MAY NOT BE A "SUNSHINE" MEMBER.
6. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, AND LDDP AND LEAD-IN WIRES. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACK FILLING AND COMPACTING AROUND EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY.

PAY ITEM NOTES:

630-2-11 & 630-2-12: ITS CONDUIT - FURNISH AND INSTALL SMOOTH WALL SDRII, HIGH DENSITY POLYETHYLENE CONDUIT WHERE INDICATED IN THE PLANS. THIS PAY ITEM ALSO INCLUDES ANY CLEARING AND GRUBBING NECESSARY TO INSTALL CONDUIT IN THE PROPOSED LOCATIONS SHOWN IN THE PLANS. THIS PAY ITEM ALSO INCLUDES THE COST OF FURNISHING AND INSTALLING A LOCATE WIRE, WARNING MARKER TAPE, SIDEWALK REPAIR DUE TO TRENCHING, AND SODDING TO RESTORE GROUND TO ITS ORIGINAL CONDITION.

630-2-15: ITS CONDUIT - FURNISH AND INSTALL 2" STEEL CASING AND/OR PVC CONDUIT WHERE INDICATED IN THE PLANS. THIS PAY ITEM ALSO INCLUDES ANY CLEARING AND GRUBBING NECESSARY TO INSTALL CONDUIT IN THE PROPOSED LOCATIONS SHOWN IN THE PLANS. THIS PAY ITEM ALSO INCLUDES THE COST OF FURNISHING AND INSTALLING A HANGER SYSTEM AND THE JUNCTION BOXES FOR CONDUIT TRANSITIONST AS NOTED ON THE CONDUIT DETAIL PLAN SHEETS.

635-2-12 & 635-2-13: PULL AND SPLICE BOXES SHALL BE PLACED IN SIDEWALK WHEREVER POSSIBLE. WHEN PLACEMENT IN SIDEWALK IS NOT POSSIBLE, PULL BOXES AND SPLICE BOXES SHALL HAVE A CONCRETE PAD AROUND THEM IN ACCORDANCE WITH DETAILS. THESE PAY ITEMS INCLUDE ALL CONCRETE AND STEEL FOR THE PAD AND ANY SODDING NECESSARY TO RESTORE THE AREA AROUND THE PAD TO ITS ORIGINAL CONDITION. THEY ALSO INCLUDE THE COST OF RESTORATION OF IMPACTED AREAS IN THE INSTANCES WHEN PULL BOXES AND SPLICE BOXES ARE INSTALLED WITHIN THE SIDEWALK AREA. THIS INCLUDES, BUT IS NOT LIMITED TO CONCRETE SIDEWALKS, CURBS, PEDESTRIAN RAMPS, EXPANSION JOINTS, ETC.

PULL BOXES AND SPLICE SHALL NOT BE PLACED IN ANY CURB RADIUS, PEDESTRIAN RAMPS, ACCESS ROUTES, CONSTRUCTION JOINTS, EXPANSION JOINTS, VALVE BOXES AND JUNCTION PULL BOXES SHALL BE FLUSH ACROSS THE JOINTS.

UTILITY CONTACTS:

UTILITY OWNERS	CONTACT	TELEPHONE
AT&T FL / BELLSOUTH	STEEVE LOW	954-723-2540
CITY OF MIAMI BEACH	RICKY FALLS	305-673-7080
FPL FIBERNET	DANNY HASKETT	305-552-2931
FPL TRANSMISSION	ERNESTO DOMINGUEZ	954-581-3088
FPL DISTRIBUTION	SEYED HAJASSADOLLAH	305-275-5290
TECO / PEOPLES GAS	YVONNE GOLDMAN	954-453-0824
ATLANTIC BROADBAND COMMUNICATIONS	EDWIN ZAMBRANA	305-801-8069
SPRINT NEXTEL	MARK CALDWELL	407-422-6674
CROWN CASTLE	BRYANT LOWE	734-616-2193
DADE COUNTY PUBLIC WORKS	OSCAR VIDAL	305-412-0891
AECOM	THOMAS MILLER	305-470-5757

DEFINITIONS, ACRONYMS, AND ABBREVIATIONS:

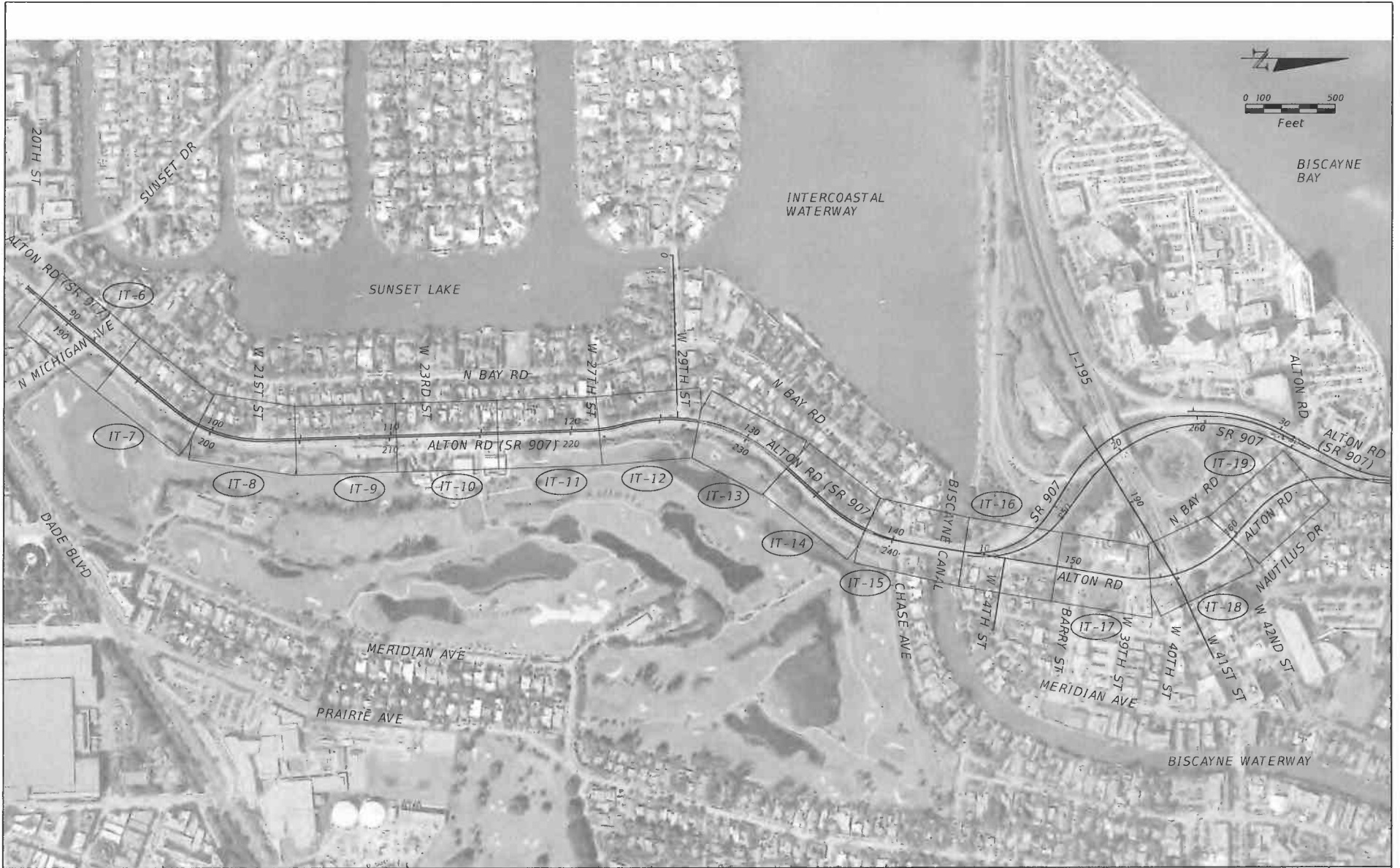
BM	BRIDGE MOUNTED (CONDUIT)
DB	DIRECTIONAL BORE (CONDUIT)
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FOC	FIBER OPTIC CABLE
HDPPE	HIGH-DENSITY POLYETHYLENE
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
OT	OPEN TRENCH (CONDUIT)
NOT	MAINTENANCE OF TRAFFIC
NOTCD	MANUAL OR UNIFORM TRAFFIC CONTROL DEVICES
SM	SINGLE MODE

ITS LEGEND:

ELEMENT	DESCRIPTION
	PROPOSED FIBER OPTIC PULL BOX
	PROPOSED FIBER OPTIC SPLICE VAULT
	PROPOSED WALL MOUNTED JUNCTION BOX
	PROPOSED UNDERGROUND/UNDER PAVEMENT CONDUIT
	PROPOSED DIRECTIONAL BORE CONDUIT
	PROPOSED BRIDGE MOUNTED CONDUIT

*NOTE: EXISTING FEATURES TO REMAIN, UNLESS OTHERWISE NOTED ON PLAN SHEET

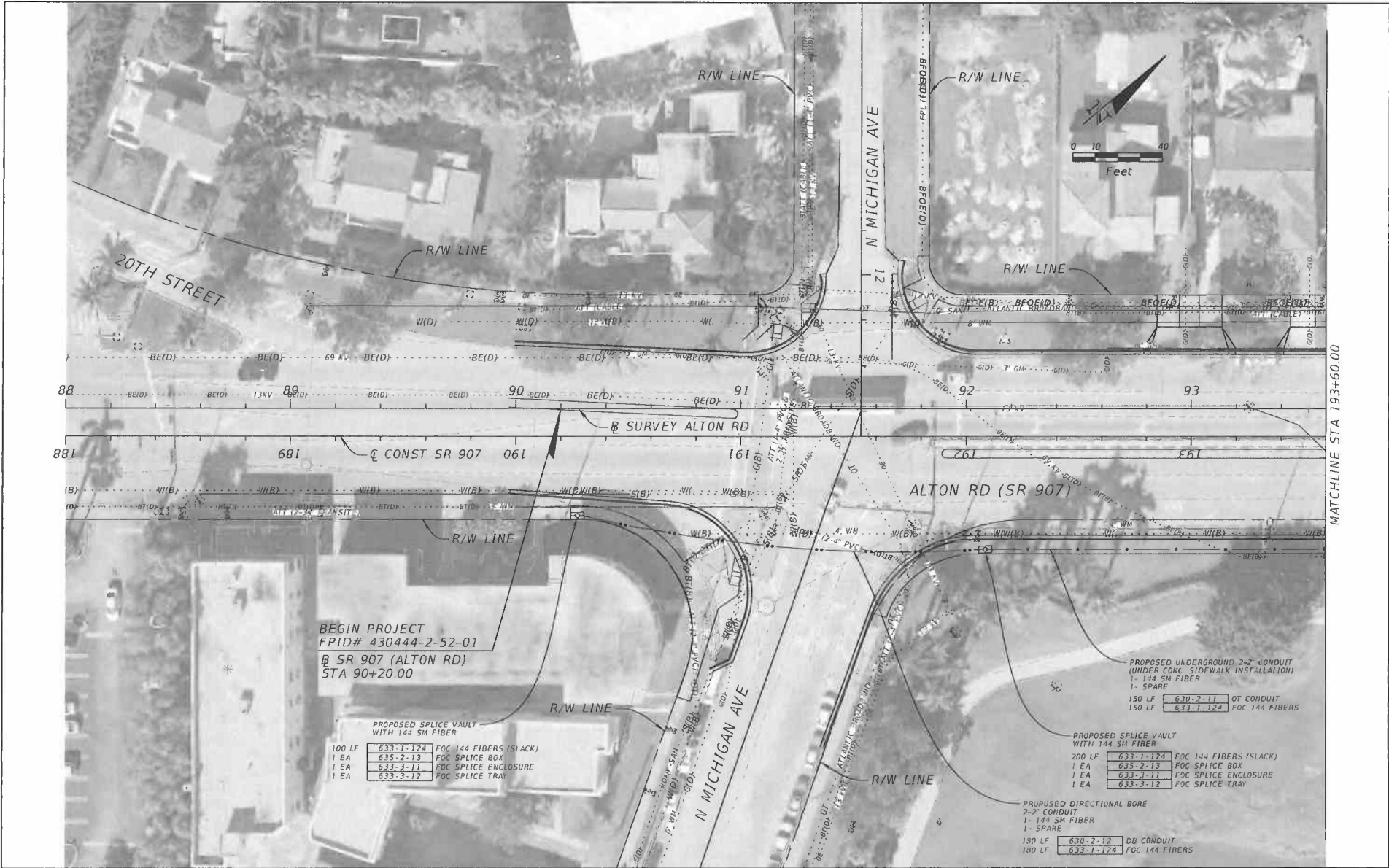
REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NOTES	SHEET NO. IT-4
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REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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JILL ANN CAPELLI, P.E.
 P.E. LICENSE NUMBER 62365
 KIMLEY-HORN AND ASSOCIATES
 600 NORTH PINE ISLAND RD, SUITE 450
 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 695

ITS PROJECT LAYOUT



MATCHLINE STA 193+60.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JILL ANN CAPELLI, P.E.
 P.E. LICENSE NUMBER 62365
 KIMLEY-HORN AND ASSOCIATES
 600 NORTH PINE ISLAND RD, SUITE 450
 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 696

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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ITS PLAN

SHEET NO.
 IT-6



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JILL ANN CAPELLI, P.E.
 P.E. LICENSE NUMBER 62365
 KIMLEY-HORN AND ASSOCIATES
 600 NORTH PINE ISLAND RD, SUITE 450
 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 696

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
907	MIAMI-DADE	429193-1-52-01

ITS PLAN

SHEET NO.
IT-7



REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEET NO. IT-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				907	MIAMI-DADE	429193-1-52-01		

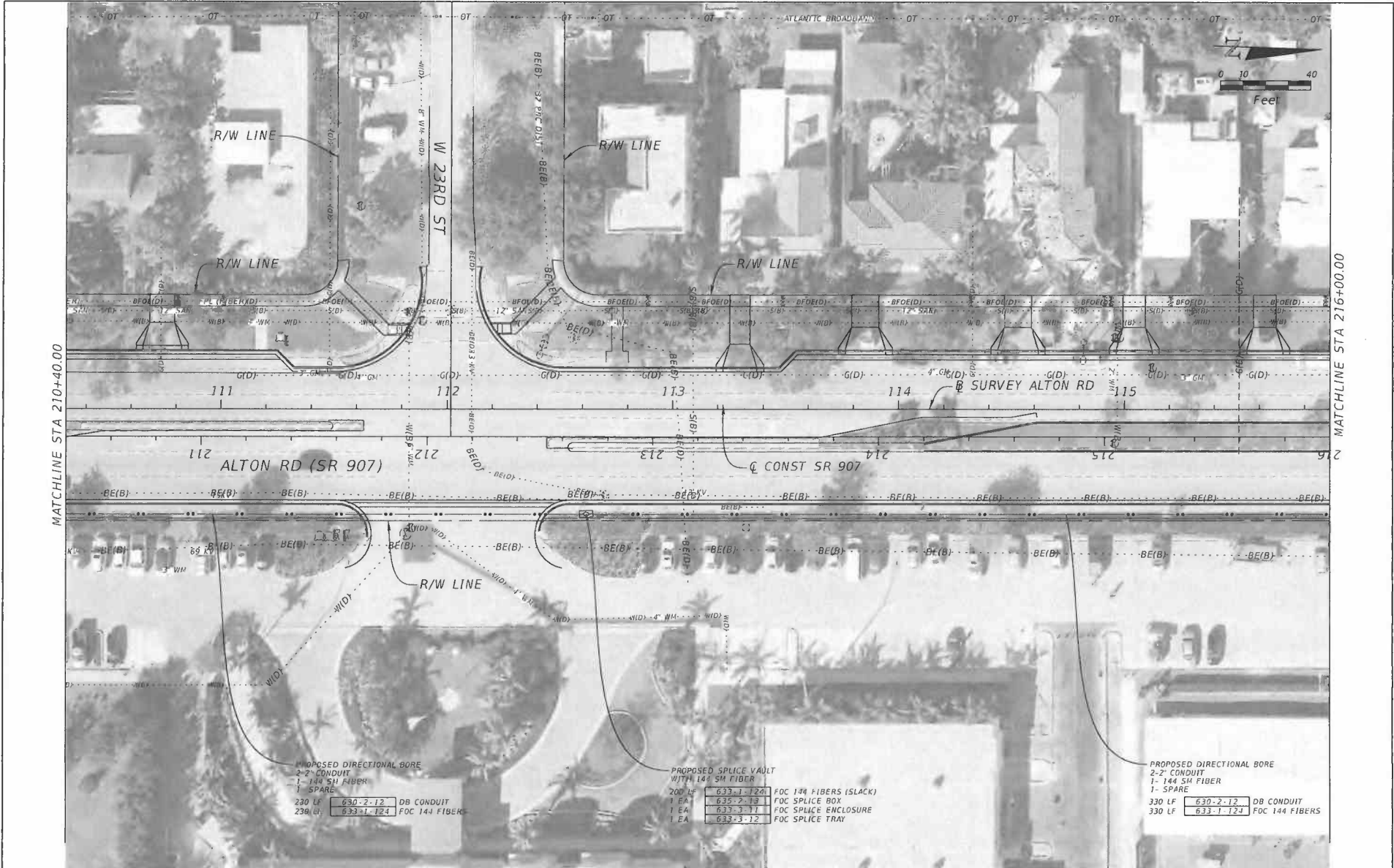


PROPOSED UNDERGROUND 2-2' CONDUIT UNDER CONC. SIDEWALK INSTALLATION:
 1- 144 SM FIBER
 1 SPARE
 220 LF 630-2-11 OT CONDUIT
 220 LF 633-1-124 FOC 144 FIBERS

PROPOSED SPILLICE VAULT WITH 144 SM FIBER
 200 LF 633-1-124 FOC 144 FIBERS (SLACK)
 1 EA 635-2-13 FOC SPLICE BOX
 1 EA 633-3-11 FOC SPLICE ENCLOSURE
 1 EA 633-3-12 FOC SPLICE TRAY

PROPOSED DIRECTIONAL BORE 2-2' CONDUIT
 3- 144 SM FIBER
 1 SPARE
 340 LF 630-2-12 DB CONDUIT
 340 LF 633-1-124 FOC 144 FIBERS

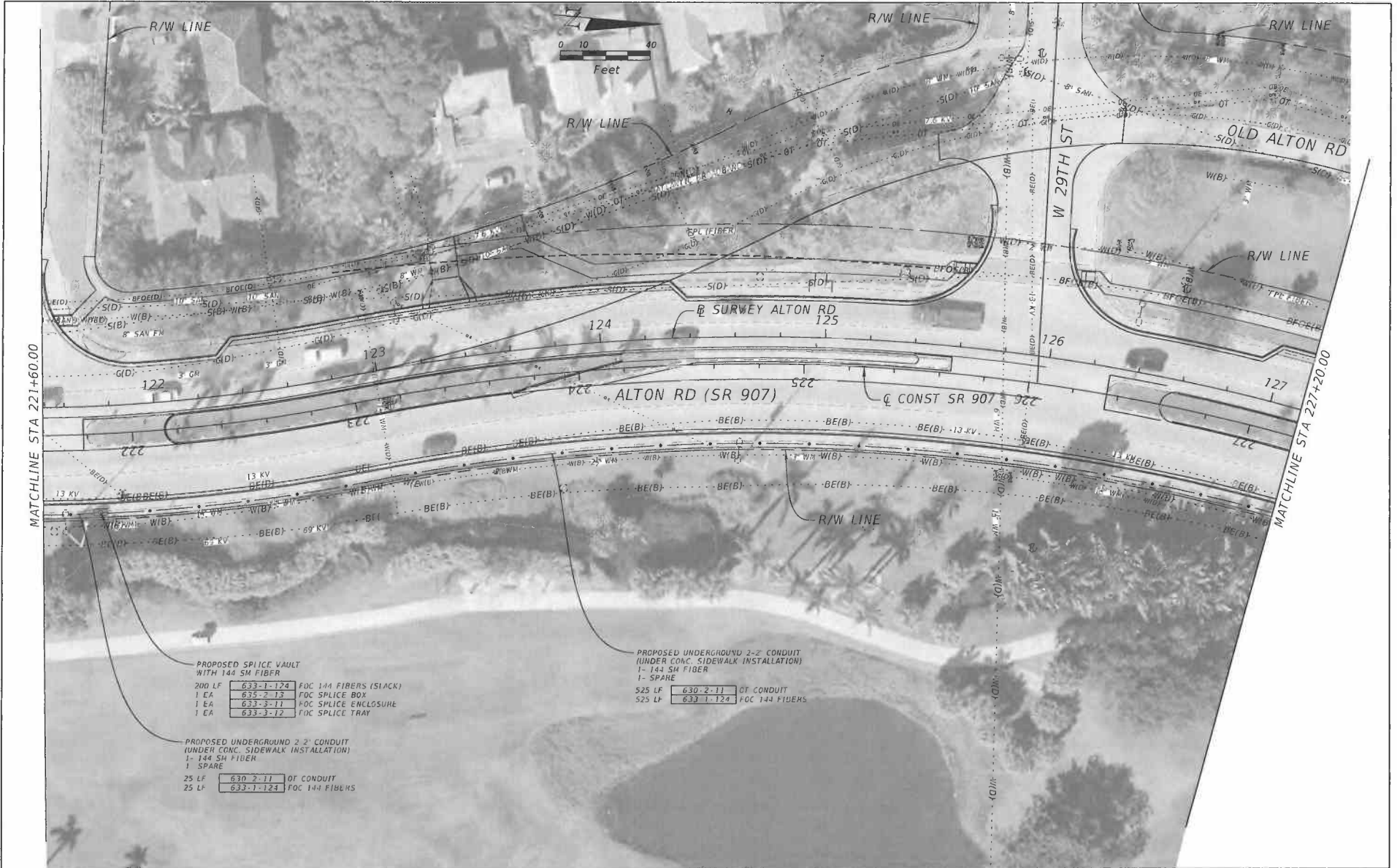
REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN	SHEET NO. IT-9
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REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN	SHEET NO. IT-10
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REVISIONS		DATE	DESCRIPTION	JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEET NO. IT-11
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PROPOSED SPlice VAULT WITH 144 SH FIBER

200 LF	633-1-124	FOC 144 FIBERS (SLACK)
1 EA	635-2-12	FOC SPlice BOX
1 EA	633-3-11	FOC SPlice ENCLOSURE
1 EA	633-3-12	FOC SPlice TRAY

PROPOSED UNDERGROUND 2' 2" CONDUIT (UNDER CONC. SIDEWALK INSTALLATION)

25 LF	630-2-11	OT CONDUIT
25 LF	633-1-124	FOC 144 FIBERS

PROPOSED UNDERGROUND 2'-2" CONDUIT (UNDER CONC. SIDEWALK INSTALLATION)

525 LF	630-2-11	OT CONDUIT
525 LF	633-1-124	FOC 144 FIBERS

REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN	SHEET NO. IT-12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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PROPOSED UNDERGROUND 2-2" CONDUIT (UNDER CONC. SIDEWALK INSTALLATION)
 1- 144 SM FIBER
 1- SPARE
 360 LF 630-2-11 OT CONDUIT
 360 LF 633-1-124 FOC 144 FIBERS

PROPOSED UNDERGROUND 2-2" CONDUIT (UNDER CONC. SIDEWALK INSTALLATION)
 1- 144 SM FIBER
 1- SPARE
 165 LF 630-2-11 OT CONDUIT
 165 LF 633-1-124 FOC 144 FIBERS

PROPOSED FIBER PULL BOX WITH 144 SM FIBER
 50 LF 633-1-124 FOC 144 FIBERS (SLACK)
 1 EA 635-2-12 FOC PULL BOX

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JILL ANN CAPELLI, P.E.
 P.E. LICENSE NUMBER 62365
 KIMLEY-HORN AND ASSOCIATES
 600 NORTH PINE ISLAND RD, SUITE 450
 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 696

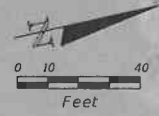
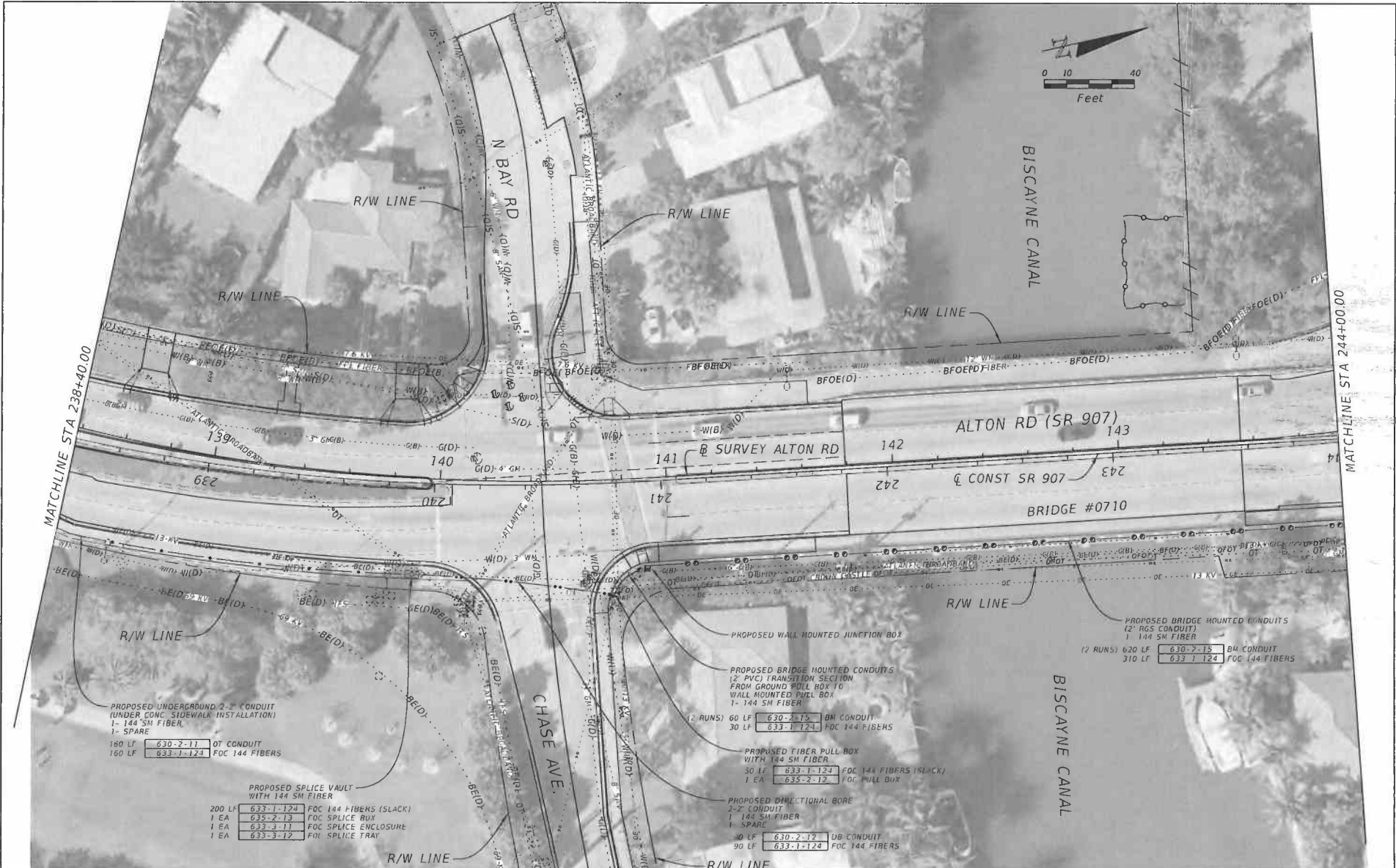
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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907	MIAMI-DADE	429193-1-52-01

ITS PLAN

SHEET NO.
IT-13



REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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				907	MIAMI-DADE	429193-1-52-01	ITS PLAN IT-14
JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696							



PROPOSED UNDERGROUND 2-2" CONDUIT (UNDER CONC. SIDEWALK INSTALLATION)
 1- 144 SM FIBER
 1- SPARE
 180 LF 630-2-11 DB CONDUIT
 160 LF 633-1-124 FOC 144 FIBERS

PROPOSED SPLICE VAULT WITH 144 SM FIBER
 200 LF 633-1-124 FOC 144 FIBERS (SLACK)
 1 EA 635-2-13 FOC SPLICE BOX
 1 EA 633-3-11 FOC SPLICE ENCLOSURE
 1 EA 633-3-12 FOC SPLICE TRAY

PROPOSED WALL MOUNTED JUNCTION BOX

PROPOSED BRIDGE MOUNTED CONDUITS
 12" PVC TRANSITION SECTION FROM GROUND PULL BOX TO WALL MOUNTED PVEL BOX
 1- 144 SM FIBER
 (2 RUNS) 60 LF 630-2-15 DB CONDUIT
 30 LF 633-1-124 FOC 144 FIBERS

PROPOSED FIBER PULL BOX WITH 144 SM FIBER
 50 LF 633-1-124 FOC 144 FIBERS (SLACK)
 1 EA 635-2-12 FOC PULL BOX

PROPOSED DIRECTIONAL BORE 2-2" CONDUIT
 1- 144 SM FIBER
 1- SPARE
 90 LF 630-2-12 DB CONDUIT
 90 LF 633-1-124 FOC 144 FIBERS

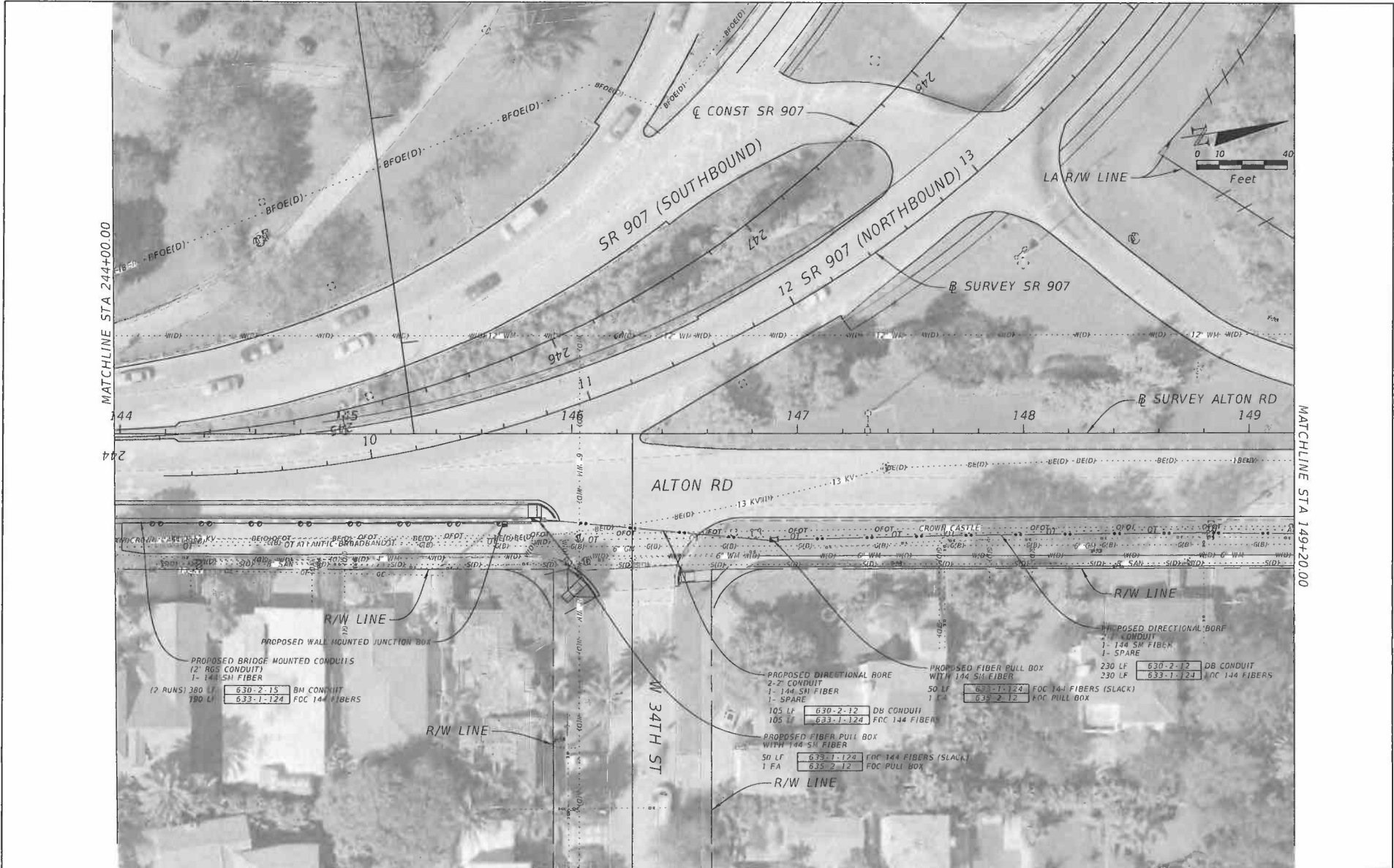
PROPOSED BRIDGE MOUNTED CONDUITS
 12" PVC CONDUIT
 1- 144 SM FIBER
 (2 RUNS) 620 LF 630-2-15 DB CONDUIT
 310 LF 633-1-124 FOC 144 FIBERS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JILL ANN CAPELLI, P.E.
 P.E. LICENSE NUMBER 62365
 KIMLEY-HORN AND ASSOCIATES
 600 NORTH PINE ISLAND RD, SUITE 450
 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 696

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
907	MIAMI-DADE	429193-1-52-01

ITS PLAN	SHEET NO. IT-15
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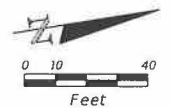
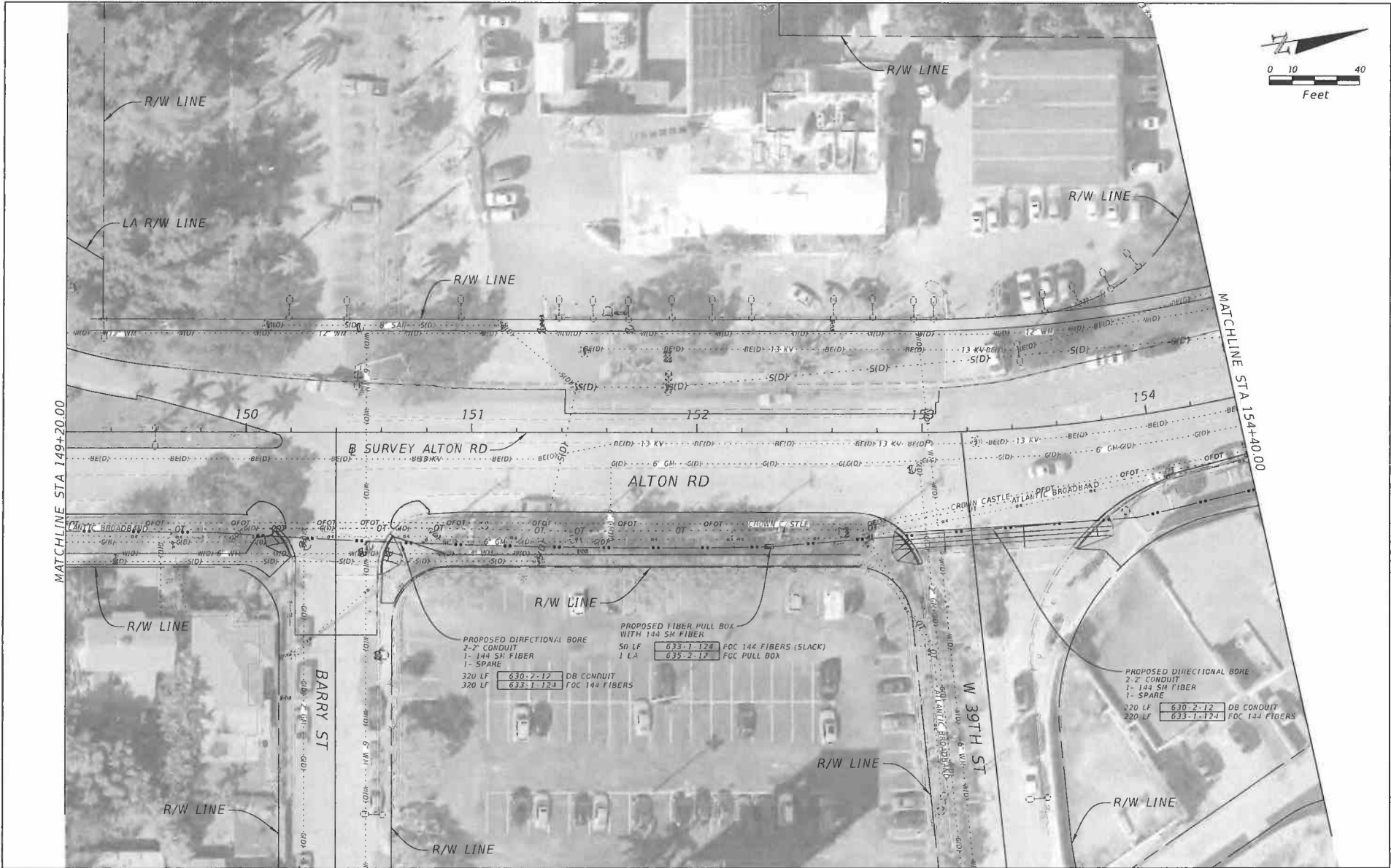
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JILL ANN CAPELLI, P.E.
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 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 696

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
907	MIAMI-DADE	429193-1-52-01

ITS PLAN

SHEET NO.
 IT-16



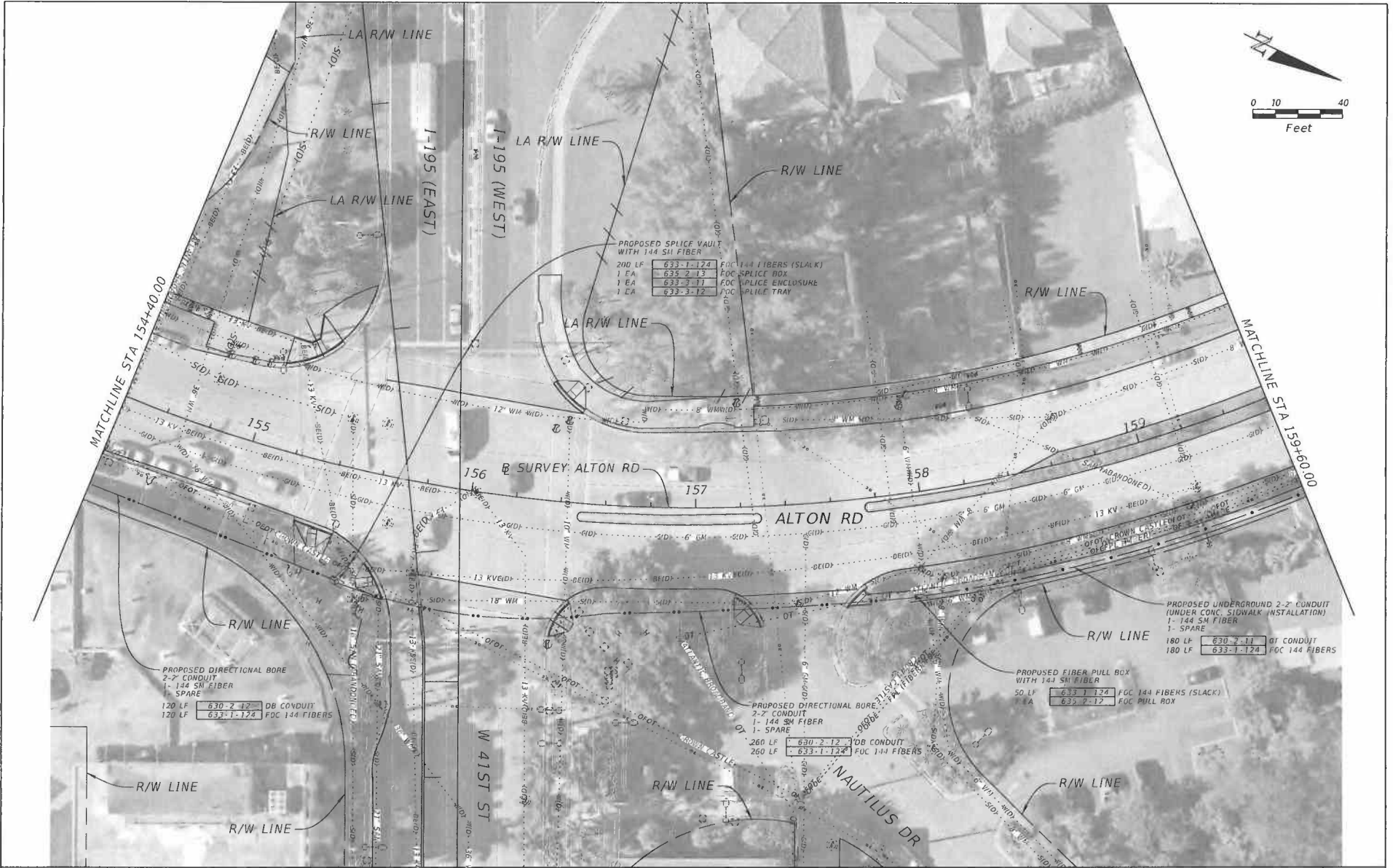
PROPOSED DIRECTIONAL BORE
 2-2" CONDUIT
 1- 144 SM FIBER
 1- SPARE
 320 LF 630-2-12 DB CONDUIT
 320 LF 633-1-124 FCC 144 FIBERS

PROPOSED FIBER PULL BOX
 WITH 144 SM FIBER
 50 LF 633-1-124 FCC 144 FIBERS (SLACK)
 1 LA 635-2-12 FCC PULL BOX

PROPOSED DIRECTIONAL BORE
 2-2" CONDUIT
 1- 144 SM FIBER
 1- SPARE
 320 LF 630-2-12 DB CONDUIT
 220 LF 633-1-124 FCC 144 FIBERS

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN	SHEET NO. IT-17
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				907	MIAMI-DADE	429193-1-52-01		

JILL ANN CAPELLI, P.E.
 P.E. LICENSE NUMBER 62365
 KIMLEY-HORN AND ASSOCIATES
 600 NORTH PINE ISLAND RD, SUITE 450
 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 696



PROPOSED SPLICE VAULT WITH 144 SM FIBER

200 LF	633-1-124	FOC 144 FIBERS (SLACK)
1 EA	635-2-13	FOC SPLICE BOX
1 EA	633-3-11	FOC SPLICE ENCLOSURE
1 EA	633-3-12	FOC SPLICE TRAY

PROPOSED DIRECTIONAL BORE 2-2" CONDUIT

120 LF	630-2-12	DB CONDUIT
120 LF	633-1-124	FOC 144 FIBERS

PROPOSED UNDERGROUND 2-2" CONDUIT (UNDER CONC. SIDEWALK INSTALLATION)

180 LF	630-2-11	OT CONDUIT
180 LF	633-1-124	FOC 144 FIBERS

PROPOSED DIRECTIONAL BORE 2-2" CONDUIT

260 LF	630-2-12	DB CONDUIT
260 LF	633-1-124	FOC 144 FIBERS

PROPOSED FIBER PULL BOX WITH 144 SM FIBER

50 LF	633-1-124	FOC 144 FIBERS (SLACK)
1 EA	635-2-12	FOC PULL BOX

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JILL ANN CAPELLI, P.E.
 P.E. LICENSE NUMBER 62365
 KIMLEY-HORN AND ASSOCIATES
 600 NORTH PINE ISLAND RD, SUITE 450
 PLANTATION, FL 33324
 CERTIFICATE OF AUTHORIZATION 696

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
907	MIAMI-DADE	429193-1-52-01

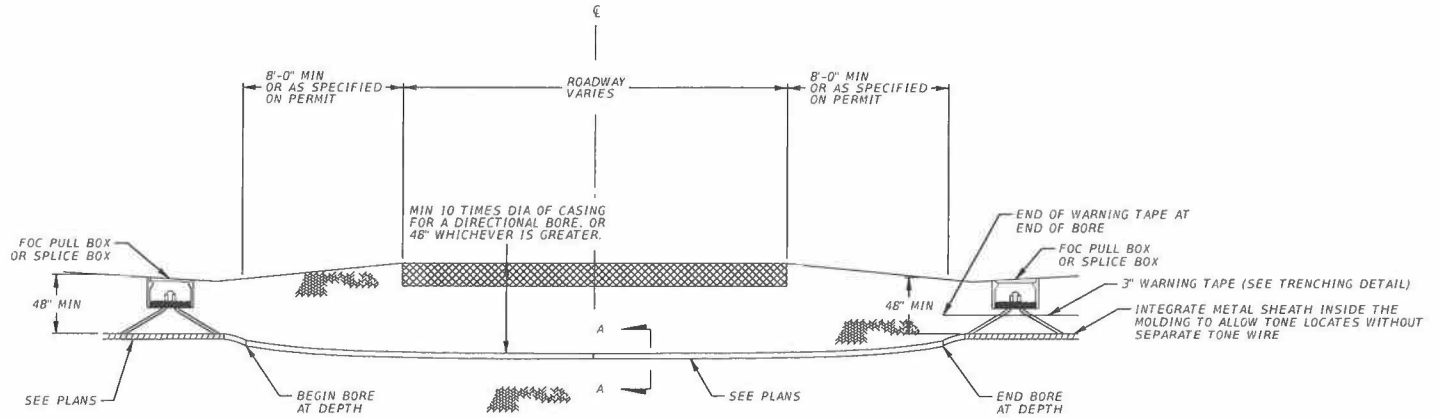
ITS PLAN

SHEET NO.
IT-18

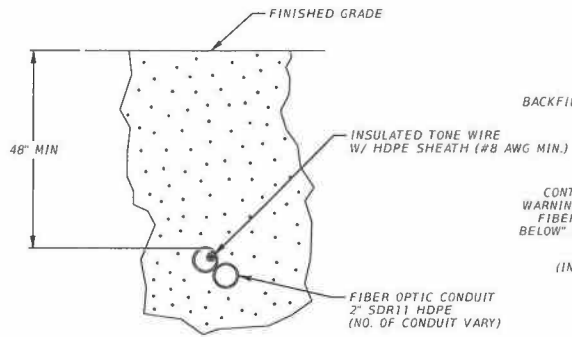


REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				907	MIAMI-DADE	429193-1-52-01	ITS PLAN IT-19
JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696							

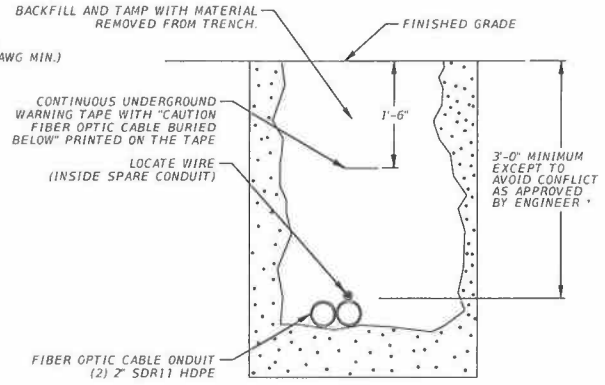
DIRECTIONAL BORE AND TRENCHING DETAILS



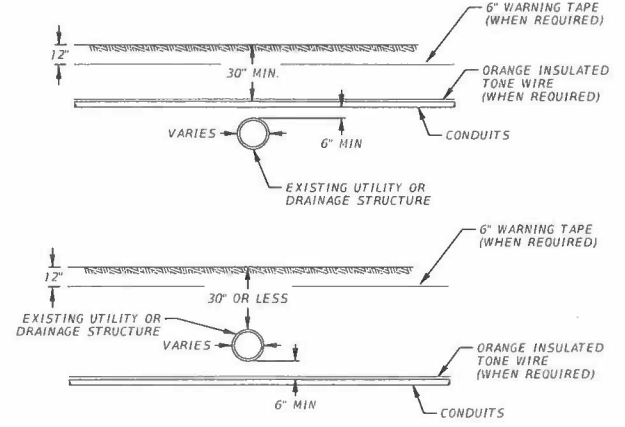
TYPICAL DIRECTIONAL BORE
NTS



SECTION A-A
NTS



TYPICAL TRENCHING
NTS



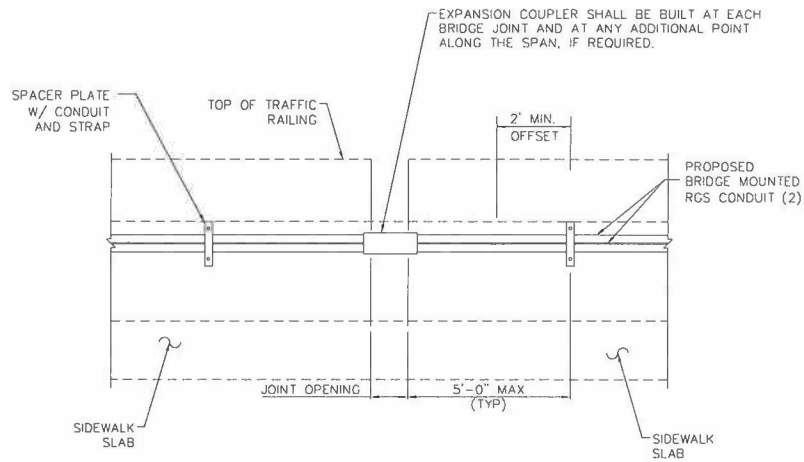
CONDUIT DETAIL
NTS

* MAY BE ADJUSTED DUE TO FIELD CONDITIONS UPON APPROVAL OF THE ENGINEER OF RECORD

GENERAL NOTES:

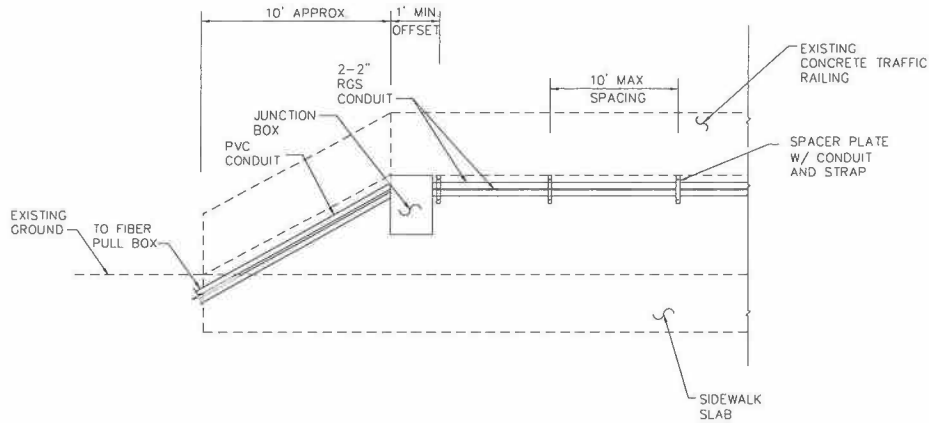
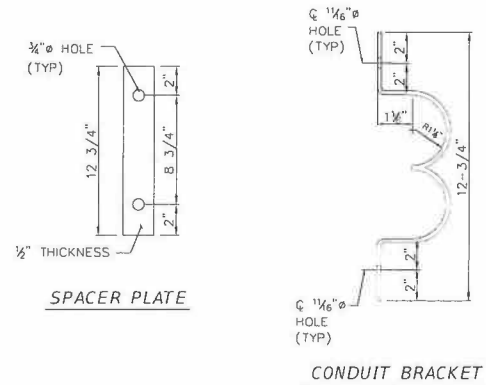
1. UTILITY IN THE PATH OF THE BORE SHALL BE LOCATED AND THE DEPTH OF THE BORE CROSSING SHALL BE DELINEATED TO CROSS UNDER OR OVER UTILITY WITH 12" MINIMUM SEPARATION.
2. VERTICAL DEPTH SHALL BE IN ACCORDANCE WITH FDOT UTILITY ACCOMMODATION MANUAL.
3. THE CONTRACTOR MAY ENCOUNTER AREAS WHERE TEMPORARY STORAGE OF TRENCHED MATERIAL CAN NOT BE EASILY STOCKPILED. THE CONTRACTOR MAY USE OTHER AREAS WITHIN THE FDOT RIGHT OF WAY OR USE AREAS OUTSIDE THE FDOT RIGHT OF WAY SECURED AND PROVIDED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER.
4. CONDUIT PLACEMENT DEPICTED BY THESE DETAILS IS REPRESENTATIVE ONLY. FINAL PLACEMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. ALL CONDUITS SHALL TERMINATE IN SPLICE VAULTS OR FIBER OPTIC PULL BOXES AND SHALL BE SEALED PER SPECIFICATIONS.
5. CONTRACTOR TO BACKFILL AND SOD IN ACCORDANCE WITH FDOT SPECIFICATIONS 120, 630 AND 570 RESPECTIVELY.

REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DIRECTIONAL BORE, TRENCH AND CONDUIT DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-20

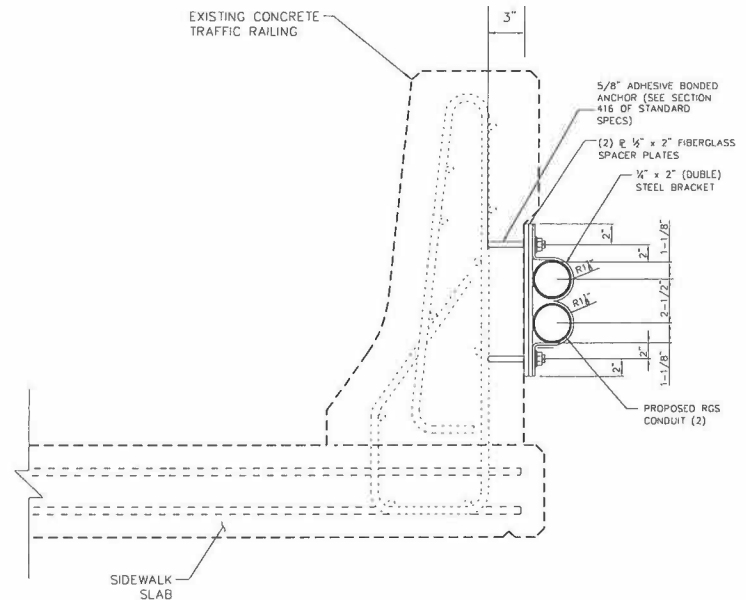


PARTIAL ELEVATION (AT JOINT OPENING)

NOTES:
BRACKET LOCATION MAY BE SLIGHTLY SHIFTED TO AVOID EXISTING REINF.



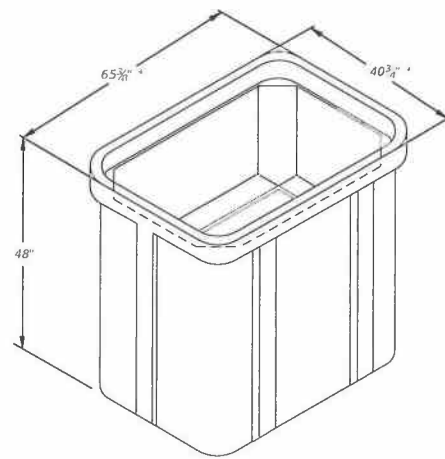
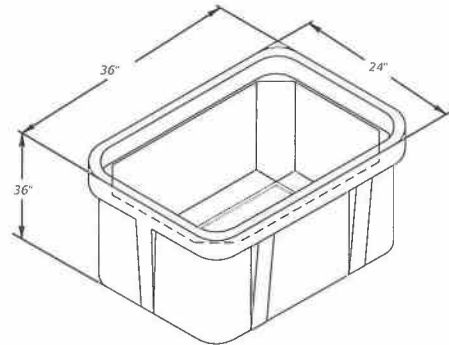
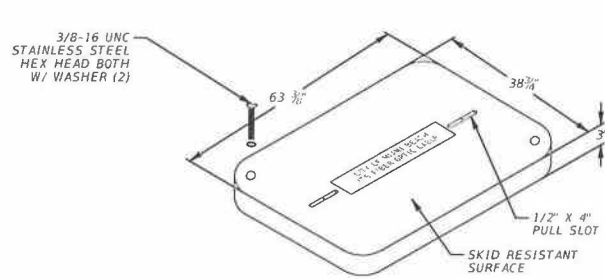
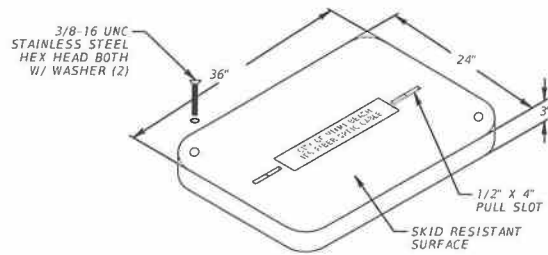
ELEVATION (AT BRIDGE ENDS)



SECTION OF EXISTING CONCRETE TRAFFIC RAILING

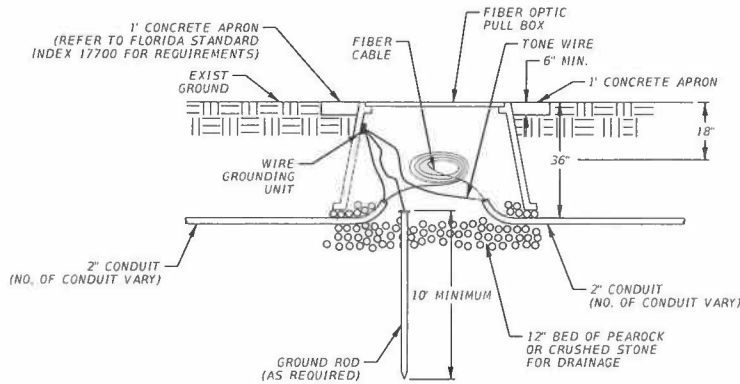
ALTON RD OVER BISCAYNE CANAL CONDUIT ATTACHMENT DETAIL

REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			BRIDGE MOUNTED CONDUIT DETAIL	SHEET NO. IT-21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				907	MIAMI-DADE	429193-1-52-01			



FIBER PULL BOX
NTS

SPLICE BOX
NTS



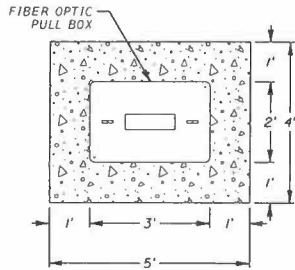
FIBER OPTIC PULL BOX NOTES:

1. FIBER OPTIC PULL BOX SHALL NOT BE INSTALLED IN ROADWAYS OR DRIVEWAYS.
2. FIBER OPTIC PULL BOX LENGTH (LONG SIDE) SHALL BE PARALLEL TO THE CONDUIT RUN. WHEN THE CONDUIT RUN IS PERPENDICULAR AT THE JUNCTION POINT, THE PULL BOX SHALL BE PARALLEL TO THE ROADWAY.
3. CONDUIT ϕ SHALL BE ALIGNED TO THE TOP EDGE OF PULL BOX TO FACILITATE CABLE PULLING.
4. SPARE FIBER OPTIC CABLE IS TO BE WOUND NEATLY AND CAREFULLY, AS NOT TO EXCEED THE MAX. BENDING RADIUS OF THE FIBER OPTIC CABLE.
5. 3/4" COPPER BONDED GROUND RODS SHALL BE USED (AS REQUIRED).
6. #2 STRANDED COPPER GROUNDING WIRES SHALL BE EXOTHERMICALLY WELDED TO GROUND RODS (AS REQUIRED).
7. GROUND RODS SHALL BE A MINIMUM OF 6" BELOW GRADE (AS REQUIRED). INSTALL WIRE GROUNDING UNITS AT EVERY THIRD SPLICE LOCATION (MINIMUM) OF THE LOCATE WIRE.
8. PULL BOXES SHALL MEET HS-20 LOADING REQUIREMENTS.
9. PULL BOX SHALL BE LISTED IN THE FDOT APPROVED PRODUCT LIST (APL).
10. PULL BOX COVER SHALL INCLUDE THE WORDS "CITY OF MIAMI BEACH ITS FIBER OPTIC CABLE" PERMANENTLY CAST INTO THEIR TOP SURFACE.

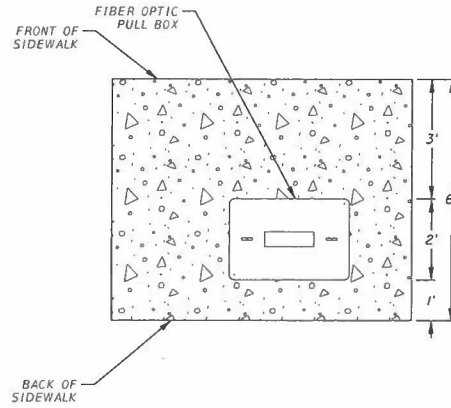
FIBER SPLICE VAULT NOTES:

1. RECTANGULAR BOXES ARE DEPICTED. ROUND FIBER OPTIC SPLICE BOXES ARE ALLOWED.
2. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL HOOKS, RACKS, FASTENERS, ANCHORS, AND STRAPS FOR USE INSIDE SPLICE VAULTS TO BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.
3. ALL FIBER OPTIC SPLICE VAULTS MUST MEET HS-20 LOADING.
4. REFER TO FLORIDA DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 635 FOR PULL BOX REQUIREMENTS.
5. ELECTRICAL WIRE MAY NOT BE ROUTED THROUGH SPLICE VAULTS.
6. SPLICE VAULT COVER SHALL INCLUDE THE WORDS "CITY OF MIAMI BEACH ITS FIBER OPTIC CABLE" PERMANENTLY CAST INTO THEIR TOP SURFACE.

REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			FIBER PULL BOX AND SPLICE BOX DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-22
					907	MIAMI-DADE	429193-1-52-01		



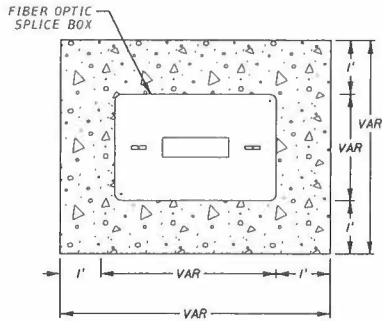
FIBER PULL BOX & CONCRETE APRON DETAIL



FIBER PULL BOX & CONCRETE SIDEWALK DETAIL

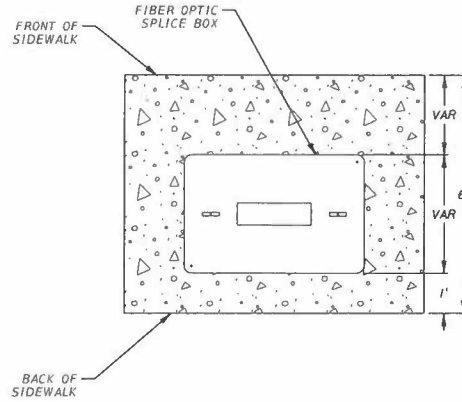
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FIBER SPLICE BOX & CONCRETE APRON DETAIL

NTS



FIBER SPLICE BOX & CONCRETE SIDEWALK DETAIL

NTS

NOTES:

1. CONCRETE REINFORCEMENT AND INSTALLATION REQUIREMENTS TO BE PER INDEX 17700.
2. RECTANGULAR BOXES ARE DEPICTED. ROUND FIBER OPTIC SPLICE BOXES ARE ALLOWED.

REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CONCRETE APRON DETAIL	SHEET NO. IT-23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					907	MIAMI-DADE	429193-1-52-01		

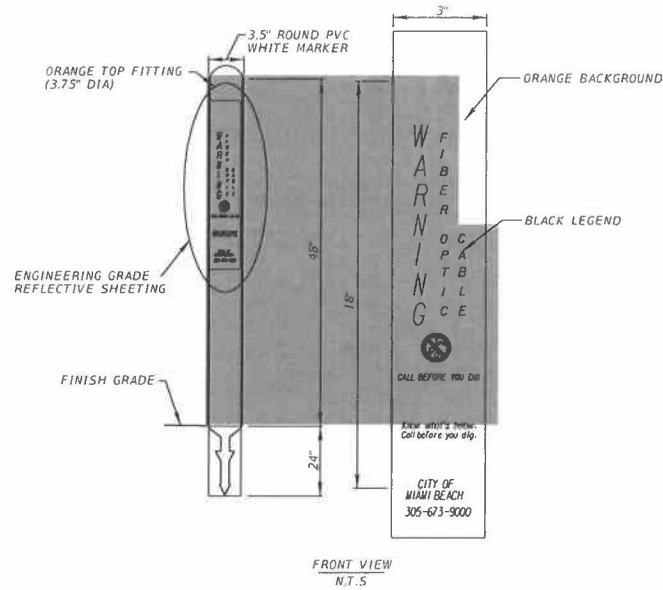
Jose Castaneda

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FIBER OPTIC CABLE ROUTE MARKER



NOTES:

INSTALL FIBER OPTIC CABLE ROUTE MARKER AT 500' SPACING, AT EVERY FIBER PULL BOX AND ALL CHANGES IN DIRECTION.

ROUTE MARKERS SHALL BE INCIDENTAL TO CONDUIT INSTALLATION. A POLYDOME TOP SHALL BE INSTALLED ON EACH MARKER, ORANGE FOR FIBER AND RED FOR POWER.



REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				907	MIAMI-DADE	429193-1-52-01	IT-24

JILL ANN CAPELLI, P.E.
P.E. LICENSE NUMBER 62365
KIMLEY-HORN AND ASSOCIATES
600 NORTH PINE ISLAND RD, SUITE 450
PLANTATION, FL 33324
CERTIFICATE OF AUTHORIZATION 696

FIBER MARKER DETAIL

TRAFFIC CONTROL PROJECT NOTES

1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FDOT DESIGN STANDARDS (600 SERIES) AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE UPDATES.
2. TEMPORARY SIGNAGE AND STRIPING (IF REQUIRED) SHALL CONFORM TO THE LATEST EDITION OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). SIGNS SHALL BE ERECTED ACCORDING TO THE REFERENCE NUMBERS DESIGNATED BY THE FDOT OR MUTCD, AS LOCATED ON THE PLANS.
3. COORDINATE ALL THE TEMPORARY LANE CLOSURES WITH THE ROADWAY TRAFFIC CONTROL PLANS.
4. IDENTIFICATION OF PROPOSED LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY SUBMITTING THE REQUIRED DOCUMENTATION TO THE PROJECT ENGINEER.
5. IF A LANE CLOSURE CAUSES UNANTICIPATED EXTENDED CONGESTION CAUSING DRIVER DELAY GREATER THAN 20 MINUTES, THE CONTRACTOR SHALL OPEN THE CLOSED LANE(S) UNTIL SUCH TIME AS TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
6. PROVISIONS FOR TRAFFIC DISRUPTIONS WHICH ARE NOT ANTICIPATED IN THE TRAFFIC CONTROL PLAN, BUT WHICH ARE NECESSARY TO CONSTRUCT THE PROJECT, SHALL BE SUBMITTED IN WRITING TO THE PROJECT ENGINEER AND APPROVAL SHALL BE OBTAINED 72 HOURS PRIOR TO THE COMMENCEMENT OF THAT PORTION OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS AND OTHER DATA REQUIRED BY THE ENGINEER.
7. ALTERATION OF TRAVEL LANES TO CREATE A WORK ZONE SHALL NOT COMMENCE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT ZONE.
8. DURING NON-WORKING HOURS, ALL MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE PARKED OR STORED WITHIN THE CLEAR ZONE OF THE ROADWAY.
9. EXISTING POSTED SPEEDS ARE TO BE MAINTAINED DURING CONSTRUCTION. ALL SPEED LIMIT SIGNS ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
10. HEAVY EQUIPMENT OR VEHICLES SHALL NOT BE ALLOWED ON SIDEWALKS.
11. CONTRACTOR SHALL CONTACT UTILITY OWNERS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY, SEE PROJECT NOTES ON PLAN SHEET IT-4 FOR THE LIST OF UTILITY OWNERS AND CONTACT INFORMATION.

GENERAL ITS EQUIPMENT INSTALLATION TRAFFIC CONTROL NOTES

1. FOR THE INSTALLATION OF PULL BOXES, CONDUIT AND CABLES, REFER TO STANDARD INDEX 611, 612 AND 613 AS APPROPRIATE.
2. PEDESTRIAN ACCESS WITHIN THE CONSTRUCTION WORK AREA SHALL NOT BE PERMITTED AND THE CONTRACTOR SHALL REROUTE PEDESTRIAN TRAFFIC PER STANDARD INDEX 660 TO MAINTAIN ALL EXISTING PEDESTRIAN ROUTES. THE CONTRACTOR OR TRAFFIC CONTROL SUPERVISOR SHALL VERIFY ALL NEW PEDESTRIAN TRAFFIC ROUTES TO BE CLEARLY IDENTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION.
3. IN THE EVENT THAT CONSTRUCTION OF THIS PROJECT REQUIRES EXCAVATION NEAR EXISTING UTILITY POLES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER(S) OF THE POLES TO PROVIDE RESTRAINT OF THE POLES SO THAT THEY DO NOT IMPOSE A HAZARD TO TRAFFIC LANES OR PROPERTY, PUBLIC OR PRIVATE, UNTIL SUCH TIME THAT THE EXCAVATION(S) ARE BACK FILLED AND COMPACTED.

REVISIONS				JILL ANN CAPELLI, P.E. P.E. LICENSE NUMBER 62365 KIMLEY-HORN AND ASSOCIATES 600 NORTH PINE ISLAND RD, SUITE 450 PLANTATION, FL 33324 CERTIFICATE OF AUTHORIZATION 696	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MAINTENANCE OF TRAFFIC PROJECT NOTES	SHEET NO. IT-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				907	MIAMI-DADE	429193-1-52-01			

Appendix D – 430444-1 and 430444-2
Cost Share Breakdown and Itemized Cost
Estimate

Project Detail

Project Number: 43044415201

Category: 0200 Roadway-Drainage items only

Obs	Item Number	Item Description	Supplemental Description	T Spec	Fund	Unit	Quantity	Unit Price	Extended Amount	Low Cost
	0400 3 20	CONC. CLASS III, SEAL				CY	4140.00	\$675.00	\$2,794,500.00	
	0425 1201	INLETS, CURB, TYPE 9, <10'				EA	6.00	\$5,150.00	\$30,900.00	
	0425 1351	INLETS, CURB, TYPE P-5, <10'				EA	33.00	\$6,000.00	\$198,000.00	
	0425 1361	INLETS, CURB, TYPE P-6, <10'				EA	16.00	\$6,350.00	\$101,600.00	
	0425 1451	INLETS, CURB, TYPE J-5, <10'				EA	2.00	\$7,750.00	\$15,500.00	
	0425 1461	INLETS, CURB, TYPE J-6, <10'				EA	3.00	\$8,000.00	\$24,000.00	
	0425 1471	INLETS, CURB, TYPE 7, <10'				EA	1.00	\$6,000.00	\$6,000.00	
	0425 1531	INLETS, DITCH BOTTOM, TYPE C MODIFIED- BACK OF SIDEWALK, <10'				EA	12.00	\$4,000.00	\$48,000.00	
	0425 1541	INLETS, DT BOT, TYPE D, <10'				EA	1.00	\$5,500.00	\$5,500.00	
	0425 1561	INLETS, DT BOT, TYPE F, <10'				EA	12.00	\$5,000.00	\$60,000.00	
	0425 2 41	MANHOLES, P-7, <10'				EA	2.00	\$5,000.00	\$10,000.00	
	0425 2 43	MANHOLES, P-7, PARTIAL				EA	2.00	\$3,350.00	\$6,700.00	
	0425 2 72	MANHOLES, J-7, >10'				EA	49.00	\$8,500.00	\$416,500.00	
	0425 8	DRAINAGE STRUCTUURES MISC ADJUST				EA	1.00	\$3,000.00	\$3,000.00	
	0425 10	YARD DRAIN				EA	106.00	\$2,350.00	\$249,100.00	

0430 175 112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"S/CD	LF	124.00	\$150.00	\$18,600.00
0430 175 115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	2774.00	\$165.00	\$457,710.00
0430175118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	3184.00	\$145.00	\$461,680.00
0430175124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	9.00	\$350.00	\$3,150.00
0430175130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	5.00	\$500.00	\$2,500.00
0430175136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	465.00	\$250.00	\$116,250.00
0430175148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	304.00	\$350.00	\$106,400.00
0430175160	PIPE CULVERT, OPT MATERIAL, ROUND, 60"S/CD	LF	108.00	\$600.00	\$64,800.00
0430175172	PIPE CULVERT, OPT MATERIAL, ROUND, 72"S/CD	LF	150.00	\$750.00	\$112,500.00
0430175196	PIPE CULVERT, OPT MATERIAL, ROUND, 96"S/CD	LF	4622.00	\$2,000.00	\$9,244,000.00
430 830	PIPE FILLING AND PLUGGING	LF	4400.00	\$400.00	\$1,760,000.00
0436 1 1	TRENCH DRAIN, STANDARD	LF	903.00	\$275.00	\$248,325.00
0455135 8	SHEET PILING STEEL, HP 14 X 117	LF	300.00	\$175.00	\$52,500.00
0455133 2	SHEET PILING STEEL, TEMPORARY-CRITICAL	SF	301950.00	\$30.00	\$9,058,500.00
				0200 Roadway-Drainage Total	\$25,676,215.00

Project Detail

Project Number: 43044415202

Category: Pump Station

Obs	Item Number	Item Description	Supplemental	T Spec	Fund	Unit	Quantity	Unit Price	Extended Amount	Low
	0444 74 1	DEEP WELL INJECTION BOX, STRUCTURE WITH NO OUTFLOW		T		EA	8.00	\$50,000.00	\$400,000.00	
	0448 73	PUMPING STATION- DRAINAGE	43044415202	T		LS	1.00	\$5,000,000.00	\$5,000,000.00	
	0455133 3	SHEET PILING STEEL, F&I PERMANENT				SF	1200.00	\$50.00	\$60,000.00	
	0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	43044415202		N	LS	1.00	\$150,000.00	\$150,000.00	
	1050 61124	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 24"		T		LF	167.00	\$525.05	\$87,683.35	
	1050 61154	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 54"		T		LF	36.00	\$1,181.55	\$42,535.80	
Pump Station Total									\$5,740,219.15	

Project Detail

Project Number: 43044415203

Category: 0550 Intelligent Transportation System

Obs	Item Number	Item Description	Supplemental Description	T Spec	Fund	Unit	Quantity	Unit Price	Extended Amount	Low Cost
	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH				LF	3135.00	\$15.00	\$47,025.00	
	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE				LF	1160.00	\$25.00	\$29,000.00	
	0633 1124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS				LF	5200.00	\$5.00	\$26,000.00	
	0633 2 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE				EA	144.00	\$50.00	\$7,200.00	
	0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE				EA	4.00	\$1,250.00	\$5,000.00	
	0633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY				EA	4.00	\$75.00	\$300.00	
	0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE				EA	7.00	\$1,600.00	\$11,200.00	
	0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE				EA	4.00	\$3,150.00	\$12,600.00	
	0999 25	LOCAL AGENCY INITIAL CONTINGENCY AMOUNT, 43044415203 DO NOT BID			N	LS	1.00	\$10,737.00	\$10,737.00	
0550 Intelligent Transportation System Total									\$149,062.00	

Project Detail

Project Number: 43044425201

Category: 0200 Roadway-Drainage items only

Obs	Item Number	Item Description	Supplemental Description	T Spec	Fund	Unit	Quantity	Unit Price	Extended Amount
	0400 3 20	CONC. CLASS III SEAL				CY	7721.00	\$725.00	\$5,597,725.00
	0425 1201	INLETS, CURB, TYPE 9, <10'				EA	19.00	\$5,000.00	\$95,000.00
	0425 1351	INLETS, CURB, TYPE P-5, <10'				EA	59.00	\$6,000.00	\$354,000.00
	0425 1361	INLETS, CURB, TYPE P-6, <10'				EA	35.00	\$6,250.00	\$218,750.00
	0425 1531	INLET, DITCH BOTTOM, TYPE C, MODIFIED-BACK OF SODEWALK, <10'				EA	19.00	\$4,000.00	\$76,000.00
	0425 1561	INLETS, DT BOTTOM, TYPE F, <10'				EA	42.00	\$5,000.00	\$210,000.00
	0425 1563	INLETS, DT BOTTOM, TYPE F, J BOT, <10'				EA	1.00	\$7,000.00	\$7,000.00
	0425 1564	INLETS, DT BOTTOM, TYPE F, J BOT, >10'				EA	4.00	\$8,000.00	\$32,000.00
	0425 2 41	MANHOLES, P-7, <10'				EA	5.00	\$5,000.00	\$25,000.00
	0425 2 71	MANHOLES, J-7, <10'				EA	3.00	\$6,500.00	\$19,500.00
	0425 2 72	MANHOLES, J-7, >10'				EA	76.00	\$8,350.00	\$634,600.00
	0425 3 61	JUNCTION BOXES, J-7, <10'				EA	5.00	\$7,000.00	\$35,000.00
	0425 3 62	JUNCTION BOXES, J-7, >10'				EA	75.00	\$8,350.00	\$626,250.00
	0425 8	DRAINAGE STRUCTURES, MISCELLANEOUS, ADJUST				EA	6.00	\$2,500.00	\$15,000.00

0425 10	YARD DRAIN	EA	108.00	\$2,350.00	\$253,800.00
430 175 112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"S/CD	LF	225.00	\$165.00	\$37,125.00
430 175 115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	3823.00	\$165.00	\$630,795.00
0430175118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	5914.00	\$120.00	\$709,680.00
0430175124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	698.00	\$125.00	\$87,250.00
0430175130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	92.00	\$150.00	\$13,800.00
430 175 136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	25.00	\$250.00	\$6,250.00
0430175148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	85.00	\$350.00	\$29,750.00
0430175160	PIPE CULVERT, OPT MATERIAL, ROUND, 60"S/CD	LF	726.00	\$425.00	\$308,550.00
0430175172	PIPE CULVERT, OPT MATERIAL, ROUND, 72"S/CD	LF	133.00	\$700.00	\$93,100.00
0430175196	PIPE CULVERT, OPT MATERIAL, ROUND, 96"S/CD	LF	7347.00	\$2,000.00	\$14,694,000.00
430 830	PIPE FILLING AND PLUGGING-PLACE OUT OF SERVICE	CY	7.90	\$400.00	\$3,160.00
0436 1 1	TRENCH DRAIN, STANDARD	LF	1363.00	\$300.00	\$408,900.00
0455 35 8	STEEL PILING HP 14 X 117	LF	360.00	\$165.00	\$59,400.00
0455 87	ANCHOR BAR, STEEL	EA	6.00	\$2,350.00	\$14,100.00
0455133 2	SHEET PILING STEEL, TEMPORARY-CRITICAL	SF	631641.00	\$30.00	\$18,949,230.00
				0200 Roadway Drainage Total	\$38,551,990.00

Project Detail

Project Number: 43044425202

Category: 0200 Roadway (Pump Station)

Obs	Item Number	Item Description	Supplemental	T Spec	Fund	Unit	Quantity	Unit Price	Extended Amount	Low
	0444 74 1	DEEP WELL INJECTION BOX, STRUCTURE WITH NO OUTFLOW		T		EA	8.00	\$50,000.00	\$400,000.00	
	0448 73	PUMPING STATION- DRAINAGE	43044425202	T		LS	1.00	\$5,000,000.00	\$5,000,000.00	
	0455133 3	SHEET PILING STEEL, F&I PERMANENT				SF	1200.00	\$55.00	\$66,000.00	
	0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	43044425202		N	LS	1.00	\$150,000.00	\$150,000.00	
	1050 61124	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 24"		T		LF	483.00	\$500.00	\$241,500.00	
	1050 61154	UTILITY PIPE- STEEL, FURNISH & INSTALL, CASING, 54"		T		LF	20.00	\$1,500.00	\$30,000.00	
0200 Roadway Total - Pump Station									\$5,887,500.00	

Project Detail

Project Number: 43044425203

Category: 0550 Intelligent Transportation System

Obs	Item Number	Item Description	Supplemental	T Spec	Fund	Unit	Quantity	Unit Price	Extended Amount	Low
	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH				LF	5755.00	\$15.00	\$86,325.00	
	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE				LF	2815.00	\$25.00	\$70,375.00	
	0630 2 15	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT				LF	1480.00	\$40.00	\$59,200.00	
	0633 1124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS				LF	11760.00	\$5.50	\$64,680.00	
	0633 2 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE				EA	144.00	\$45.00	\$6,480.00	
	0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE				EA	8.00	\$1,000.00	\$8,000.00	
	0633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY				EA	7.00	\$75.00	\$525.00	
	0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE				EA	17.00	\$1,500.00	\$25,500.00	
	0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE				EA	8.00	\$3,000.00	\$24,000.00	
	0999 26	INITIAL CONTINGENCY AMOUNT, DO NOT BID	43044425203		N	LS	1.00	\$28,470.00	\$28,470.00	
0550 Intelligent Transportation System Total									\$373,555.00	

Appendix E – 430444-1 and 430444-2 Drainage Basin Maps



REVISIONS				RIBBECK ENGINEERING, INC. 14335 SW 120 STREET, SUITE 205 MIAMI, FLORIDA 33186 TEL. (305) 383-5909 CARLOS F. RIBBECK, P.E. LICENSE NO. 50543	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>COST SHARING EXHIBIT</i>	SHEET NO. 1
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 907	MIAMI-DADE	430444-1-52-01			

LEGEND:

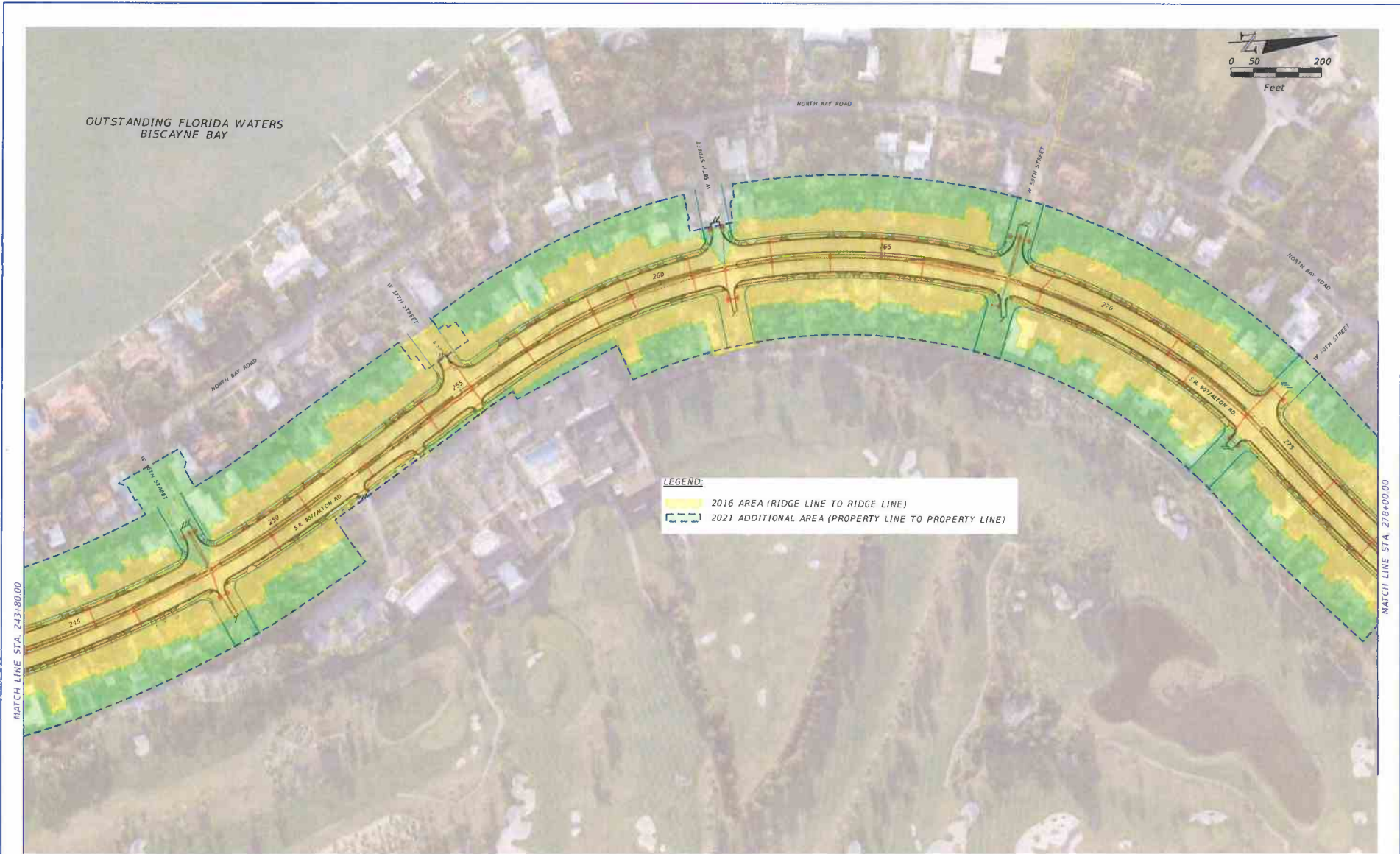
- 2016 AREA (RIDGE LINE TO RIDGE LINE)
- 2021 ADDITIONAL AREA (PROPERTY LINE TO PROPERTY LINE)



REVISIONS				RIBBECK ENGINEERING, INC. 14335 SW 120 STREET, SUITE 205 MIAMI, FLORIDA 33186 TEL. (305) 383-5909 CARLOS F. RIBBECK, P.E. LICENSE NO. 50543		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			COST SHARING EXHIBIT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		2
				SR 907	MIAMI-DADE	430444-I-52-01				



REVISIONS				RIBBECK ENGINEERING, INC. 14335 SW 120 STREET, SUITE 205 MIAMI, FLORIDA 33186 TEL. (305) 383-5909	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>COST SHARING EXHIBIT</i>	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.		
				SR 907	MIAMI-DADE	430444-2-52-01			



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RIBBECK ENGINEERING, INC.
 14335 SW 120 STREET, SUITE 205
 MIAMI, FLORIDA 33186
 TEL. (305) 383-5909
CARLOS F. RIBBECK, P.E. LICENSE NO. 50543

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	430444-2-52-01

COST SHARING EXHIBIT

SHEET NO.
4



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RIBBECK ENGINEERING, INC.
 14335 SW 120 STREET, SUITE 205
 MIAMI, FLORIDA 33186
 TEL. (305) 383-5909
 CARLOS F. RIBBECK, P.E. LICENSE NO. 50543

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 907	MIAMI-DADE	430444-2-52-01

COST SHARING EXHIBIT

SHEET NO.
5