

① of original original 2/29/14 ②

DOCUMENT ROUTING FORM

DOCUMENTS:

- 1. **MEMORANDUM OF AGREEMENT (MOA) WITH FDOT FOR NEW IMPROVEMENTS AT A1A FROM N.E. 9TH STREET TO JUST NORTH OF N.E. 18TH STREET; AND**
- 2. **SIXTH AMENDMENT TO MEMORANDUM OF AGREEMENT WITH FDOT FOR IMPROVEMENTS AT A1A FROM N.E. 9TH STREET TO N.E. 18TH STREET**

Approved Comm. Mtg. on **JANUARY 22, 2014** CAM #: 14-0011 ITEM: CR-4

Routing Origin: CAO ENG. COMM. DEV. OTHER _____

Also attached: copy of CAR copy of document ACM Form 4 originals

On 1/23/14, Linda B. forwarded to: **SHARON DREESEN, TRANSPORTATION & MOBILITY**

1.) Approved as to Content: _____
 Department Director 1-23-2014

Capital Improvements defined as having a life of at least 10 years and a cost of at least \$50,000 and shall mean improvements to real property (land, buildings, fixtures) that add value and/or extend useful life, inc. major repairs such as roof replacement, etc. Term "Real Property" include: land, real estate, realty, real.

Please Check the proper box: CIP FUNDED YES NO
Capital Improvement Projects

2.) Approved as to Funds Available: by _____ Date: _____
Finance Director

No fiscal impact at this time, as the improvements will not take place for approximately two years.

Amount Required by Contract/Agreement \$ _____ Funding Source: _____

Dept./Div. _____ Index/Sub-object _____ Project # _____

3.) City Attorney's Office approved as to form: 5 originals of each to City Mgr. By: CAO

Diansjahn Williams-Persad _____

4.) Approved as to content: Assistant City Manager:

By: _____ By: _____
Stanley Hawthorne, Assistant City Manager Susanne Torriente, Assistant City Manager

5.) City Manager: Please sign as indicated and forward 5 originals of each to Mayor.

6.) Mayor: Please sign as indicated and forward 5 originals of each to Clerk.

7.) To City Clerk for attestation and City seal.

INSTRUCTIONS TO CLERK'S OFFICE

8.) City Clerk forwards 5 of each original documents to:

SHARON DREESEN, TRANSPORTATION & MOBILITY.

Original Route form to Linda Bianco, CAO Attach 2 certified copies of Reso. # _____



CITY OF
FORT LAUDERDALE

Transportation and Mobility
Department

Memorandum #14-14

DATE: February 17, 2014

TO: Jonda Joseph, City Clerk

FROM: Diana Alarcon, Director, Transportation and Mobility *DA*

SUBJECT: Document Routing for 1. Memorandum of Agreement (MOA) with FDOT for New Improvements at A1A from N.E. 9TH Street to just north of N.E. 18TH Street; and 2. Sixth Amendment to Memorandum of Agreement with FOOT for Improvements at A1A from N.E. 9TH STREET to N.E. 18TH Street

Please find attached one fully executed original of each of the above-referenced documents.

If you have any questions, please contact me at x3764.

Thank you.

Attachments (2)

cc: Bob Dunckel, Assistant City Attorney III

CITY CLERK
2014 FEB 25 PM 6:04

CITY CLERK

2014 FEB 25 PM 6: 04

SECTION NO.: 86050
FM No.(s): 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

**DISTRICT FOUR
MAINTENANCE MEMORANDUM OF AGREEMENT**

THIS AGREEMENT, made and entered into this 25th day of FEB 2014, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the **DEPARTMENT**, and **City of Fort Lauderdale**, a municipal corporation existing under the Laws of Florida, hereinafter called the **AGENCY**.

WITNESSETH:

WHEREAS, the **DEPARTMENT** has jurisdiction over State Road A1A; and

WHEREAS, the **DEPARTMENT** seeks to install and have maintained by the **AGENCY** certain highway improvements; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the **DEPARTMENT**, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain State Road A1A (within the limits of the **AGENCY**); and

WHEREAS, it is the intent of the **AGENCY** and the **DEPARTMENT** that the **AGENCY** shall maintain the specific elements constructed under Project Number 433688-4-52-01 to include decorative light fixtures or poles, decorative sea wall, LED string lights and fiber-optic system servicing the decorative sea wall installed along State Road A1A between M.P. 3.248 and M.P. 4.322.

WHEREAS, landscape and all other hardscape elements shall be maintained under the inclusive agreement with the **AGENCY** dated January 31, 2008 and all amendments thereto.

WHEREAS, the Project involves the scope of work as described within **Exhibit A and Exhibit C**, which will benefit the **AGENCY**; and

WHEREAS, the parties hereto mutually recognize the need for entering into an Agreement designation and setting forth the responsibilities of each party; and

WHEREAS, the **AGENCY** by Resolution No. 14-14 dated Jan. 22, 2014, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

NOW THEREFORE, for and in consideration of the mutual benefits to flow each to the other, the parties covenant and agree as follows:

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. **INSTALLATION OF FACILITIES**
The **DEPARTMENT** has issued Project Number 433688-4-52-01 to reconstruct State Road A1A as detailed in **Exhibit A** and **Exhibit C** that will benefit the **AGENCY**.

3. MAINTENANCE OF FACILITIES

A. The **AGENCY** agrees to maintain the improvements to be installed under Project Number 433688-4-52-01 within the limits of construction. Maintenance by the **AGENCY** will include repair, restoration, and general maintenance of all decorative or non-standard features within the limits of construction. Non-standard items are defined as items requested by the **AGENCY** that are not defined in the **DEPARTMENT'S** Design Standards. This includes decorative light fixtures or poles, decorative sea wall, LED string lights and fiber-optic system servicing the decorative sea wall installed along State Road A1A between M.P. 3.248 and M.P. 4.322

- 1) The **AGENCY** shall be solely responsible for the maintenance and preservation of all colored coatings on light pole assemblies within the limits of construction. The **AGENCY** shall inspect the colored coatings on a yearly basis. All Maintenance or restoration activities shall be performed in accordance with a Maintenance Plan, as approved by the **DEPARTMENT**, as per the requirements in **Exhibit B**.
- 2) The above named functions to be performed by the **AGENCY** may be subject to periodic inspections by the **DEPARTMENT** at the discretion of the **DEPARTMENT**. Such inspection findings will be shared with the **AGENCY** and shall be the basis of all decisions regarding, reworking or AGREEMENT termination. The **AGENCY** shall not change or deviate from said plans without written approval of the **DEPARTMENT**.
- 3) The **AGENCY** shall be solely responsible for any damages to surrounding property, real estate, vehicles, pedestrians, attachments to the light poles, or other assets occurring as a result of coating operations and shall repair such damage to the satisfaction of the **DEPARTMENT** at no expense to the **DEPARTMENT**
- 4) Lighting assemblies and systems shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. Lighting shall meet requirements for the sea turtle nesting and hatching.
- 5) The **AGENCY** shall maintain the decorative sea wall installed along the east side of State Road A1A such that it is structurally stable and capable of supporting the expected loads which includes, but is not limited to, pedestrians, wind, and sand. Cracks shall be repaired and graffiti shall be removed from the sea wall in a timely manner. If the sea wall is damaged such that any portion is not structurally stable or presents a safety hazard to the public, it shall be repaired to a safe condition in a timely manner.

B. It is understood and agreed by the parties that upon "final acceptance" (as that term is described in the Standard Specifications for Roadway and Bridge Construction dated 2013, as amended by contract documents section 5-11) by the **DEPARTMENT** of the Project and Notice thereof to the **AGENCY**, the **AGENCY** shall be responsible for maintenance of the Project in accordance with the following Federally and State accepted standards (current editions at the time of execution of this Agreement and any amendments hereafter) and all costs related thereto: (a) FDOT Plans Preparation Manual (PPM), (b) Florida Green Book, (c) Standard Specifications for Roadway and Bridge Construction, as amended, (d) FDOT Design Standards and (e) Manual on Uniform Traffic Control Devices (MUTCD).

C. If it becomes necessary to provide utilities (water/electricity) to these improvements, all costs associated with the utilities, accent lighting and/or irrigation systems including, but not limited to the impact and connection fees, and the on-going cost of utility usage for water and electrical, are the maintaining **AGENCY'S** responsibility.

1) The **AGENCY** shall be directly responsible for impact and connection

AND

2) The **AGENCY** shall become responsible for the above named ongoing utility costs upon final acceptance of the construction project (including the improvements) by the **DEPARTMENT** and thereafter. The project is accepted prior to the start of the Plant Establishment and Contractor's Warranty Period.

AND

3) The **AGENCY** shall be responsible for the improvements immediately after final acceptance of the construction project by the **DEPARTMENT** except for the plant materials. The **AGENCY** shall be responsible for the maintenance of all improvements after the completion of the Contractor's Warranty Period.

D. The above named functions to be performed by the **AGENCY** may be subject to periodic inspections by the **DEPARTMENT** at the discretion of the **DEPARTMENT**. Such inspection findings will be shared with the **AGENCY** and shall be the basis of all decisions regarding, repayment, reworking or Agreement termination.

E. Any work impacting traffic flow on SR-A1A must be coordinated with the **DEPARTMENT**. Lane closures must be submitted for approval in accordance with **DEPARTMENT** procedures and policies and will meet the goals established in the **DEPARTMENT's** Open Roads Policy.

4. NOTICE OF MAINTENANCE DEFICIENCIES

A. If, at any time while the terms of this AGREEMENT are in effect, it shall come to the attention of the **DEPARTMENT** that the **AGENCY's** responsibility as established herein or a part thereof is not being properly accomplished pursuant to the terms of this AGREEMENT, the **DEPARTMENT** may issue a written notice, that a deficiency or deficiencies exist(s), by sending a certified letter to the **AGENCY**, in care of the CITY OF FORT LAUDERDALE CITY MANAGER, to place the **AGENCY** on notice regarding its maintenance deficiencies. Thereafter, the **AGENCY** shall have a period of thirty (30) days within which to correct the cited deficiency or deficiencies. If said deficiencies are not corrected within the time period, the **DEPARTMENT** may, at its option, proceed under one or more or a combination of the following items:

- 1) The **DEPARTMENT** may repair any item or a number of items. Corrective actions will be performed with the **DEPARTMENT** and/or its independent contractor's materials, equipment and personnel. The actual cost for such work will be charged to the **AGENCY**.
- 2) The **DEPARTMENT** may remove or replace any item or number of items with the standard **DEPARTMENT** item. Corrective actions will be performed with the **DEPARTMENT** and/or its independent contractor's materials, equipment and personnel. The actual cost for such work will be charged to the **AGENCY**.

- 3) If there is no standard equivalent item or if in the **DEPARTMENT's** discretion the item is not necessary for the operations of the roadway, the **DEPARTMENT** may remove the item in its entirety and restore the area to a condition acceptable to the **DEPARTMENT**. Corrective actions will be performed with the **DEPARTMENT** and /or its independent contractor's materials, equipment and personnel. The actual cost for such work will be charged to the **AGENCY**.
 - 4) At the discretion of the **DEPARTMENT**, terminate the Agreement in accordance with Paragraph 7 of this Agreement and remove, by the **DEPARTMENT** or its Contractor's personnel, all of the improvements installed under this Agreement and charge the **AGENCY** the reasonable cost of such removal.
5. **FUTURE DEPARTMENT IMPROVEMENTS**
It is understood between the parties hereto that the improvements covered by this Agreement may be removed, relocated or adjusted at any time in the future as determined to be necessary by the **DEPARTMENT** in order that the adjacent state road be widened, altered or otherwise changed to meet with future criteria or planning of the **DEPARTMENT**.
6. **FUTURE AGENCY IMPROVEMENTS**
The **AGENCY** may construct additional improvements within the limits of the rights of ways identified as a result of this document, subject to the following conditions:
 - 1) Plans for any new improvements shall be subject to approval by the **DEPARTMENT**. The **AGENCY** shall not change or deviate from said plans without written approval by the **DEPARTMENT**.
 - 2) The **AGENCY** shall procure a permit and/ or Construction Agreement from the **DEPARTMENT**, as appropriate.
 - 3) All improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.
 - 4) The **AGENCY** agrees to comply with the requirements of this Agreement with regard to any additional improvements installed at no cost to the **DEPARTMENT**.
7. **AGREEMENT TERMINATION**
This Agreement may be terminated under any one (1) of the following conditions:
 - 1) By the **DEPARTMENT**, if the **AGENCY** fails to perform its duties under this Agreement, following ten (10) days written notice. The **AGENCY** shall reimburse the **DEPARTMENT** for any expenditures for the installation of said improvements and the cost to remove and or replace said improvement with the standard improvement or remove in its entirety.
 - 2) By the **DEPARTMENT**, for refusal by the **AGENCY** to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the **AGENCY** in conjunction with this Agreement.
8. **AGREEMENT TERM**
The term of this Agreement commences upon execution by all parties. The term of this Agreement shall remain in effect for Fifty (50) years.
9. **LIABILITY AND INSURANCE REQUIREMENTS**
 - A. With respect to any of the **AGENCY'S** agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for the improvements shall agree to indemnify, defend, save and hold harmless the **DEPARTMENT** from

all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, sub consultants, contractors and/or subcontractors. The **AGENCY** shall provide to the **DEPARTMENT** written evidence of the foregoing upon the request of the **DEPARTMENT**. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the **DEPARTMENT** for its own negligence.

- B. In the event that **AGENCY** contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:
- 1) **AGENCY'S** contractor shall at all times during the term of this Agreement keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and Worker's Compensation insurance with minimum limits of \$500,000.00 per Liability. Coverage must be afforded on a form no more restrictive than the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office and shall name the **DEPARTMENT** as an additional insured.
 - 2) **AGENCY'S** contractor shall furnish **AGENCY** with Certificates of Insurance of Endorsements evidencing the insurance coverages specified herein prior to the beginning performance of work under this Agreement.
 - 3) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of **AGENCY'S** contractor is completed. All policies must be endorsed to provide the **DEPARTMENT** with at least thirty (30) days notice of cancellation and or/or restriction. If any of the insurance coverages will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

10. **E-VERIFY REQUIREMENTS**

AGENCY shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;

- 1) Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the **AGENCY** during the term of the contract; and
 - 2) Expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
11. This writing embodies the entire Agreement and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby except the Landscape Memorandum of Agreement(s) signed between the parties, as amended, as to all other improvements not specifically mentioned in this Agreement.
12. The **DEPARTMENT**, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year.

Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The **DEPARTMENT** shall require a statement from the Comptroller of the **DEPARTMENT** that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one (1) year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the **DEPARTMENT** which are for an amount in excess of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

13. **DISPUTES**

The **DEPARTMENT'S** District Secretary shall decide all questions, difficulties and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof; and his decision upon all claims, questions and disputes shall be final and conclusive upon the parties hereto.

14. **ASSIGNMENT**

This Agreement may not be assigned or transferred by the **AGENCY** in whole or part without the consent of the **DEPARTMENT**.

15. **LAWS GOVERNING**

This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. Venue with respect to judicial proceedings arising out of this Agreement shall be in Broward County, Florida.

16. **NOTICES**

Any and all notices given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses.

If to the **DEPARTMENT**:

State of Florida Department of Transportation
3400 West Commercial Blvd
Ft. Lauderdale, FL 33309-3421
Attention: John Danielsen, P.E.
District Maintenance Engineer

If to the **AGENCY**:

City of Fort Lauderdale
100 N. Andrews Avenue
Fort Lauderdale, FL 33301
Attention: Lee R. Feldman
Title: City Manager

17. **LIST OF EXHIBITS**

Exhibit A: Project Location and Description
Exhibit B: Maintenance Plan Requirements
Exhibit C: Construction Plans

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first above written.

WITNESSES:

CITY OF FORT LAUDERDALE, a municipal Corporation of the State of Florida:

Jeanette A. Johnson

By *JP Seiler*
JOHN P. "JACK" SEILER, Mayor

Jeanette A. Johnson
Witness Print Name

Miranda Scott

By *L.R. Feldman*
LEE R. FELDMAN, City Manager

MIRANDA SCOTT
Witness Print Name

(CORPORATE SEAL)

ATTEST:

Jonda K. Joseph
JONDA K. JOSEPH, City Clerk

Approved as to form:

Diansjhan Williams-Persad
DIANSJHAN WILLIAMS-PERSAD
Assistant City Attorney

DEPARTMENT:

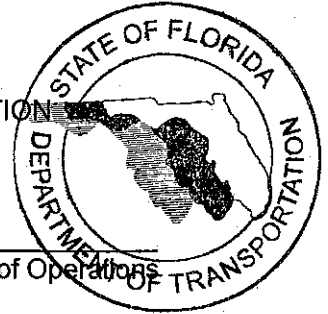
DEPARTMENT:

ATTEST:

Mania Ant
Executive Secretary
(SEAL)

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By *Courtney Drummond*
Courtney Drummond, F.E., Director of Operations



Approval as to Form:

By *Dawn Raduano*
Dawn Raduano, District General Counsel

SECTION NO.: 860500
FM No.(s): 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT A

PROJECT LOCATION AND DESCRIPTION

Location:

The improvements associated with this agreement are located in Broward County along State Road A1A from limits of construction beginning at the decorative sea wall located at NE 9th Street, from Center Line (CL) Station (Sta.) 608+90.00 Mile Post (M.P.) 3.248 to end decorative sea wall at just north of NE 18th Street (CL Sta. 665+60.00 M.P. 4.322).

Description of Work:

Installation of decorative sea wall on east side of State Road A1A (beginning from CL Sta. 608+90.00 M.P. 3.248 to end CL Sta. 665+60.00 M.P. 4.322), LED string lights and fiber-optic system servicing the decorative sea wall on the east side of State Road A1A (beginning from CL Sta. 609+16.00 M.P. 3.253 to end CL Sta. 665+60.00 M.P. 4.322) and colored coated decorative lighting installed on the east and west side of State Road A1A beginning from CL Sta. 609+75.00 M.P. 3.264 (East side) and CL Sta. 619+15.00 M.P. 3.442 (West side) to end just south of NE 18th St. CL Sta. 664+51.00 M.P. 4.301 (East side) and end CL Sta. 664+91.00 M.P. 4.309 (West side).

It will be the responsibility of the **AGENCY** to maintain the features described in this agreement.

SECTION NO.: 860500
FM No.(s): 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT B

MAINTENANCE PLAN REQUIREMENTS

The **AGENCY** shall submit to the **DEPARTMENT** a maintenance plan detailing the means and methods for accomplishing repairs to the colored coatings on decorative light poles in accordance with all **DEPARTMENT** Standards, Procedures and Specifications. This plan must be submitted and approved by the **DEPARTMENT** prior to commencing any maintenance or repair activities. The plan should at minimum detail how the **AGENCY** will address the following:

1. Providing for continuous traffic control and necessary traffic control devices as required for the safe movement of traffic of vehicular and pedestrian traffic past the location of the structure being repaired for the duration of the repair in accordance with **DEPARTMENT** Standards, Procedures and Specifications.
2. Protection of adjacent surrounding property, real estate, vehicles, pedestrians, attachments to the light poles, or other assets during the preparation and recoating of surfaces.
3. Containment of debris or materials used in or resulting from the repair

After the maintenance plan is approved, the **AGENCY** shall submit a work plan to the **DEPARTMENT** for approval prior to each repair to be performed detailing:

1. The proposed date of the repair
2. The location of the repair
3. The nature of the repair
4. The materials to be used for the repair
5. The methods to be used for the repair

SECTION NO.: 860500
FM No.(s): 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT C

CONSTRUCTION PLANS (attached)

Sheets Included:

PDF Page Number (#)	Plan Sheet (#)	Sheet(s) Description
12	1	Roadway Key Sheet
13 thru 24	16 thru 27	Roadway Plan Sheets
25 thru 44	L-1 thru L-20	Lighting Component
45 thru 66	BW-1 to BW-22	Structures Component

COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
 - ALIGNMENT-MARKING-PLANS
 - SIGNALIZATION-PLANS
 - LIGHTING PLANS
 - EMBANKMENT-PLANS
 - STRUCTURES PLANS
- A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO. SHEET DESCRIPTION

- 1 KEY SHEET
- 2-4 SUMMARY OF PLAN ITEMS
- 5-7 DRAINAGE MAP
- 8-9 PHYSICAL SECTION
- 10-11 SUMMARY OF QUANTITIES
- 12-13 SUMMARY OF DRAINAGE STRUCTURES
- 14 OPTIONAL MATERIALS TABULATION
- 15 GENERAL NOTES AND PLAN ITEM NOTES
- 16-17 PLAN
- 18-19 INTERSECTION DETAILS
- 20-24 PROFILE
- 25-26 DRAINAGE STRUCTURES
- 27-28 DRAINAGE DETAILS
- 29-30 CROSS SECTIONS
- 31-32 STORMWATER POLLUTION PREVENTION PLAN
- 33-34 TRAFFIC CONTROL PLAN-GENERAL NOTES
- 35-36 ROADWAY SOIL SURVEY
- 37-38 UTILITY ADJUSTMENTS
- 39-40 REPORT OF SOIL BORINGS
- 41-42 REPORT OF EXP. BORINGS
- 43-44 PROJECT SURVEY CONTROL
- 45-46 VERIFIED UTILITY LOGS
- 47-48 SUMMARY OF VERIFIED UTILITIES

Not included in Exhibit C

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Transportation, 2014 Design Standards and revised Index Drawings as appended herein, and 2014 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:

<http://www.dot.state.fl.us/rddesign/>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:

<http://www.dot.state.fl.us/specificationsoffice/>

REVIEWS

BIDABILITY SUBMITTAL
 12/4/2013 5:02:48 PM
SUBJECT TO REVISION

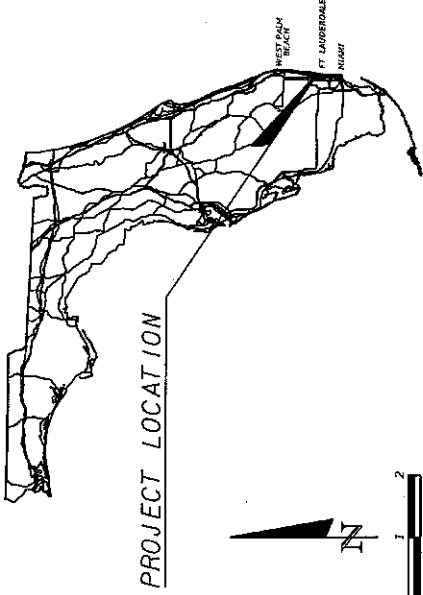
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

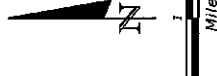
FINANCIAL PROJECT ID 433688-4-52-01

BROWARD COUNTY (86050)

STATE ROAD A1A



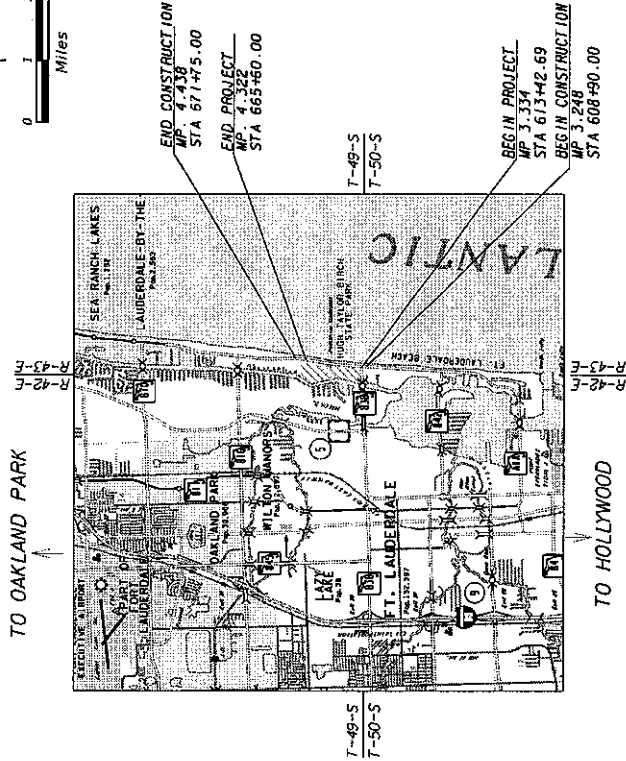
PROJECT LOCATION



ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO: MORAYMA DUCHOIA DISTRICT STRUCTURES OFFICE 1000 W. COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309

PLANS PREPARED BY: DESIGN SECTION 2 1000 W. COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309

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



END CONSTRUCTION
 MP 3.334
 STA 671+47.5-00

END PROJECT
 MP 4.322
 STA 665+60.00

BEGIN PROJECT
 MP 3.334
 STA 613+42.69

BEGIN CONSTRUCTION
 MP 3.248
 STA 608+90.00

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	5,217.31	0.988
BRIDGES	N/A	N/A
NET LENGTH OF PROJECT	5,217.31	0.988
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	5,217.31	0.988

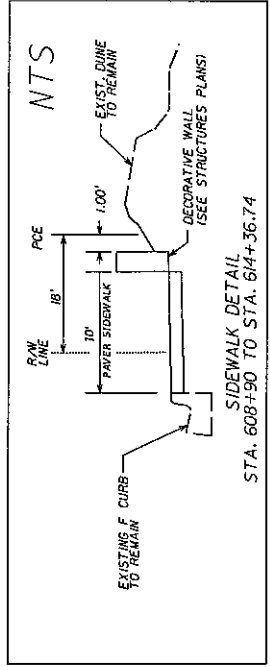
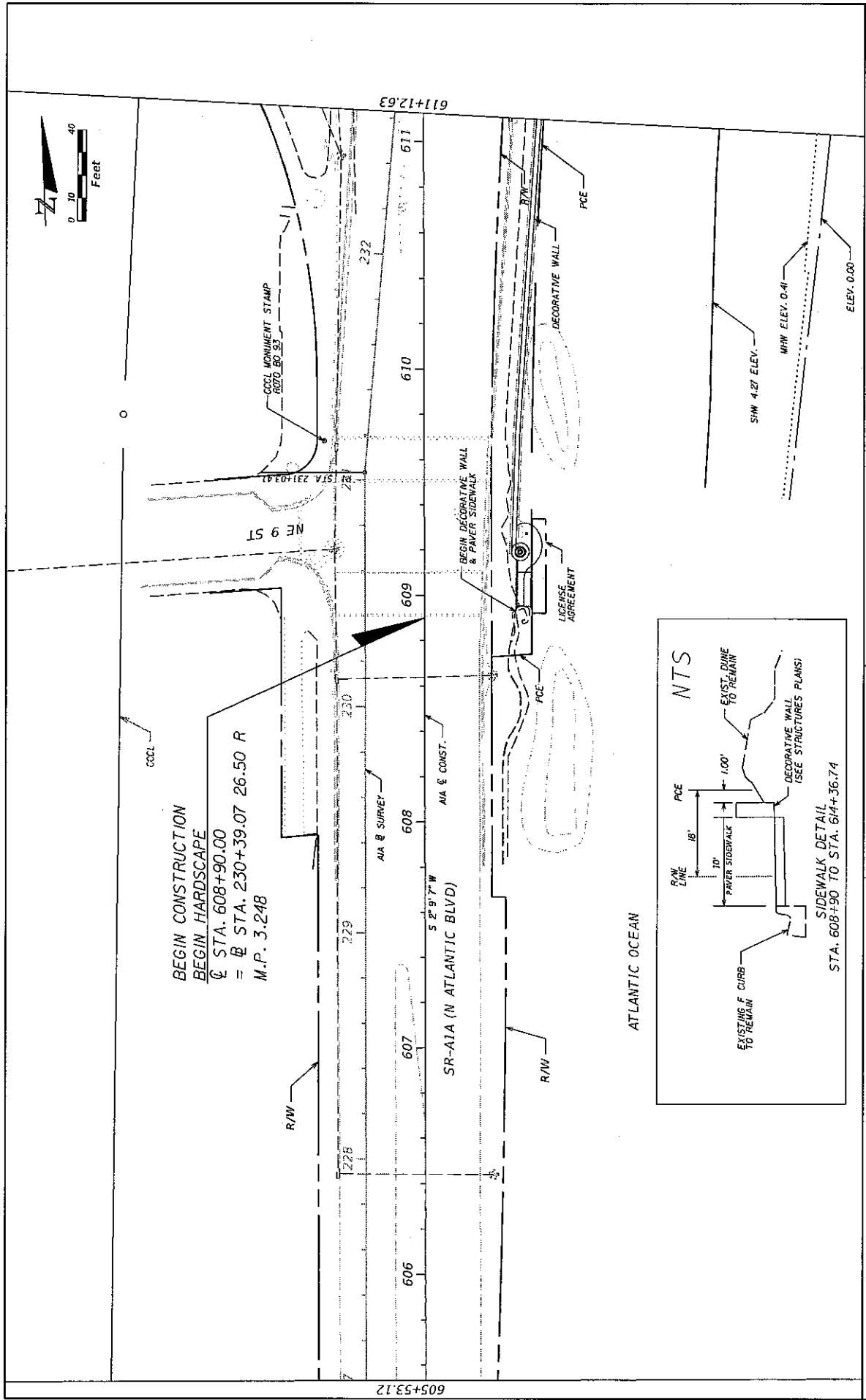
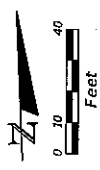
FOOT PROJECT MANAGER: SCOTT PETERSON, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

P.E. NO. 52740

ROADWAY PLANS
 ENGINEER OF RECORD: SCOTT PETERSON, P.E.

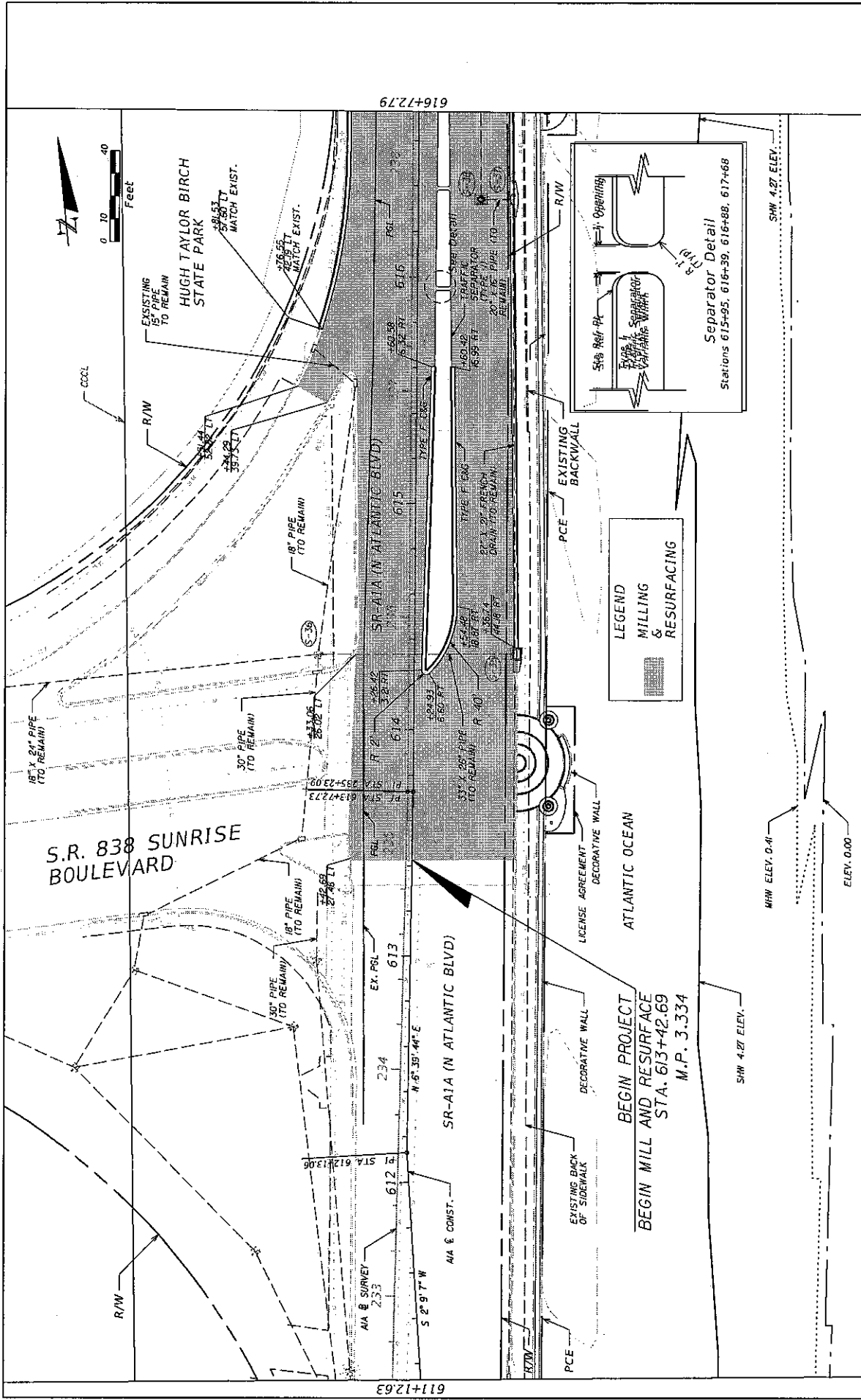
FISCAL YEAR	14
SHEET NO.	1



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

ENGINEER OF RECORD: SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
FDOT DISTRICT IV		ROAD NO.	
3400 WEST COMMERCIAL BLVD.		COUNTY	
TALLAHASSEE, FL 32309		BROWARD	
(954) 777-4416		FINANCIAL PROJECT ID	
scott.peterson@dot.state.fl.us		433668-4-52-01	

PLAN	
SHEET NO.	16

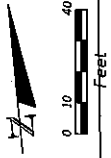


DATE	DESCRIPTION	DATE	DESCRIPTION

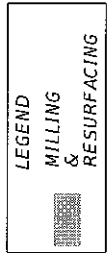
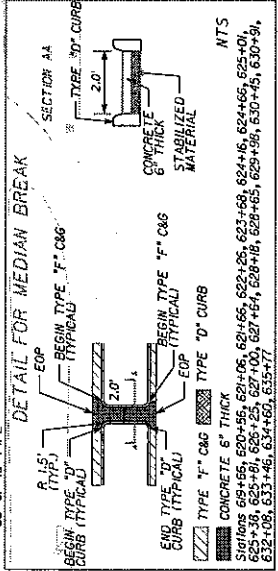
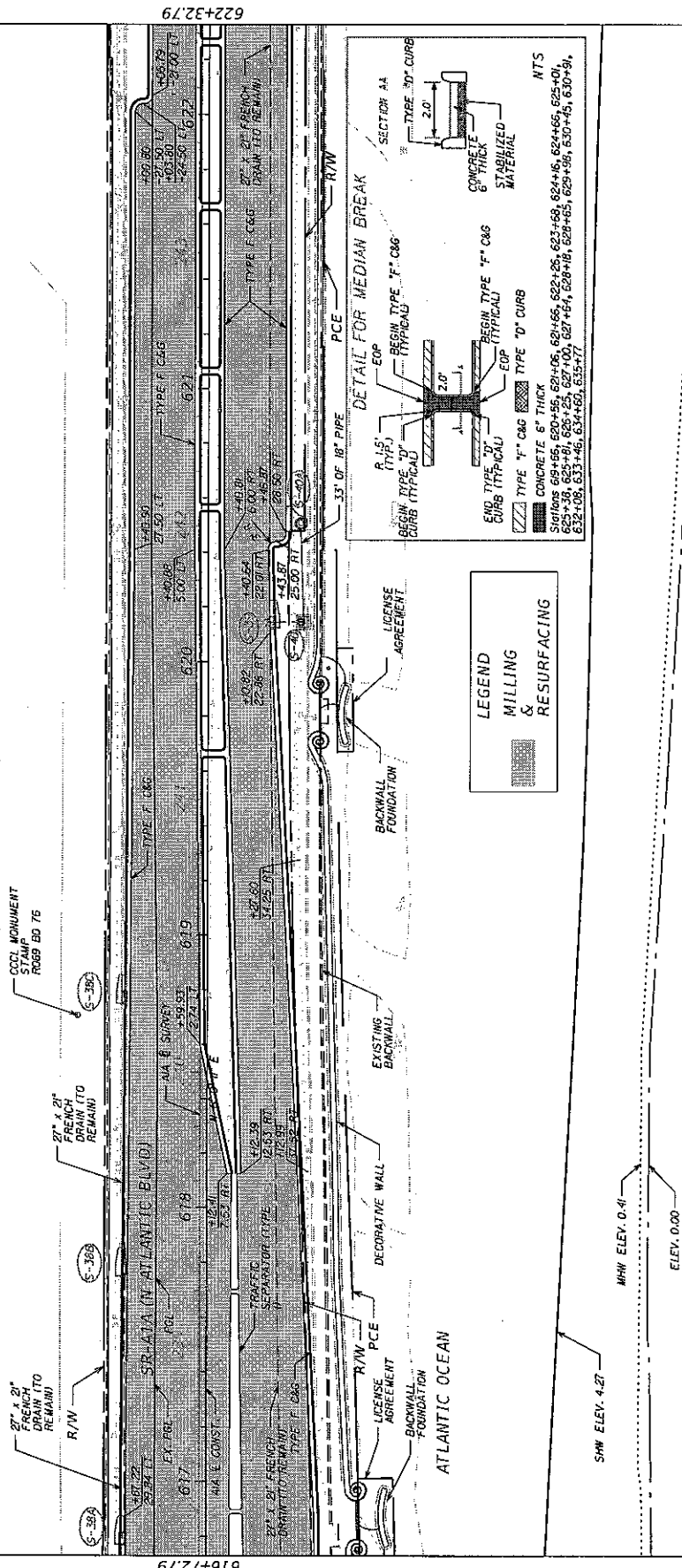
ENGINEER OF RECORD: SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER: 52740		DEPARTMENT OF TRANSPORTATION	
F.S.C. LICENSE NUMBER: 3400		ROAD NO.	COUNTY
3400 WEST COMMERCIAL BLVD		A1A	BROWARD
FORT LAUDERDALE, FL 33309		FINANCIAL PROJECT ID	433688-4-52-01
(954) 777-4416		AIA	BROWARD
scott.peterson@dot.state.fl.us			

SHEET NO.		17
PLAN		

SCALE: 1"=40' (VERTICAL) 1"=40' (HORIZONTAL)



HUGH TAYLOR BIRCH STATE PARK



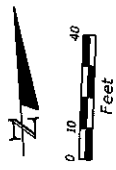
SHW ELEV. 4.27
 MHW ELEV. 0.41
 ELEV. 0.00

616+72.79

622+32.79

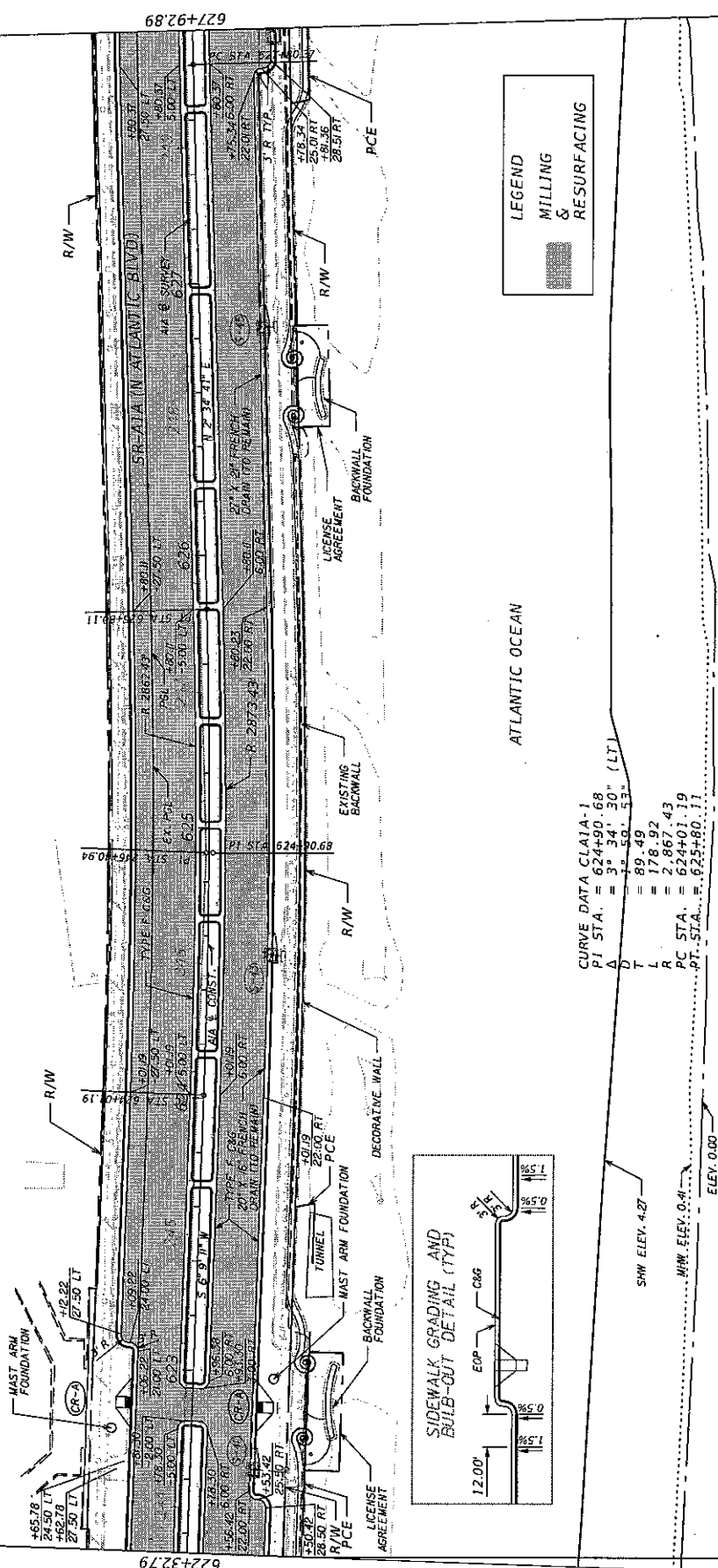
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

ENGINEER OF RECORD: SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
FOOT DISTRICT IV		ROAD NO.	COUNTY
3400 WEST COMMERCIAL BLVD.		AIA	BROWARD
FORT LAUDERDALE, FL 33309		FINANCIAL PROJECT ID	433688-4-52-01
SCOTT.PETERSON@dot.state.fl.us		SHEET NO. 18	



HUGH TAYLOR BIRCH STATE PARK

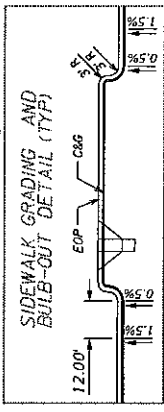
PARK ENTRANCE



LEGEND
MILLING & RESURFACING

ATLANTIC OCEAN

CURVE DATA CLAI A-1
 PI STA. = 624+90.68
 A = 3.34 30' (LT.)
 D = 89.49
 T = 27.897
 P = 27.867743
 PC STA. = 624+01.19
 PT STA. = 623+90.11



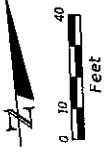
SHW ELEV. 4.27

MHW ELEV. 0.4

ELEV. 0.00

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

ENGINEER OF RECORD - SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
FDOT DISTRICT IV		ROAD NO.	COUNTY
3400 WEST COMMERCIAL BLVD.		AIA	BROWARD
FORT LAUDERDALE, FL 33309		FINANCIAL PROJECT ID	433688-4-52-01
(954) 774-4416			
SCOTT.PETERSON@dot.state.fl.us			



CCCL

HUGH TAYLOR BIRCH STATE PARK

633+52.58

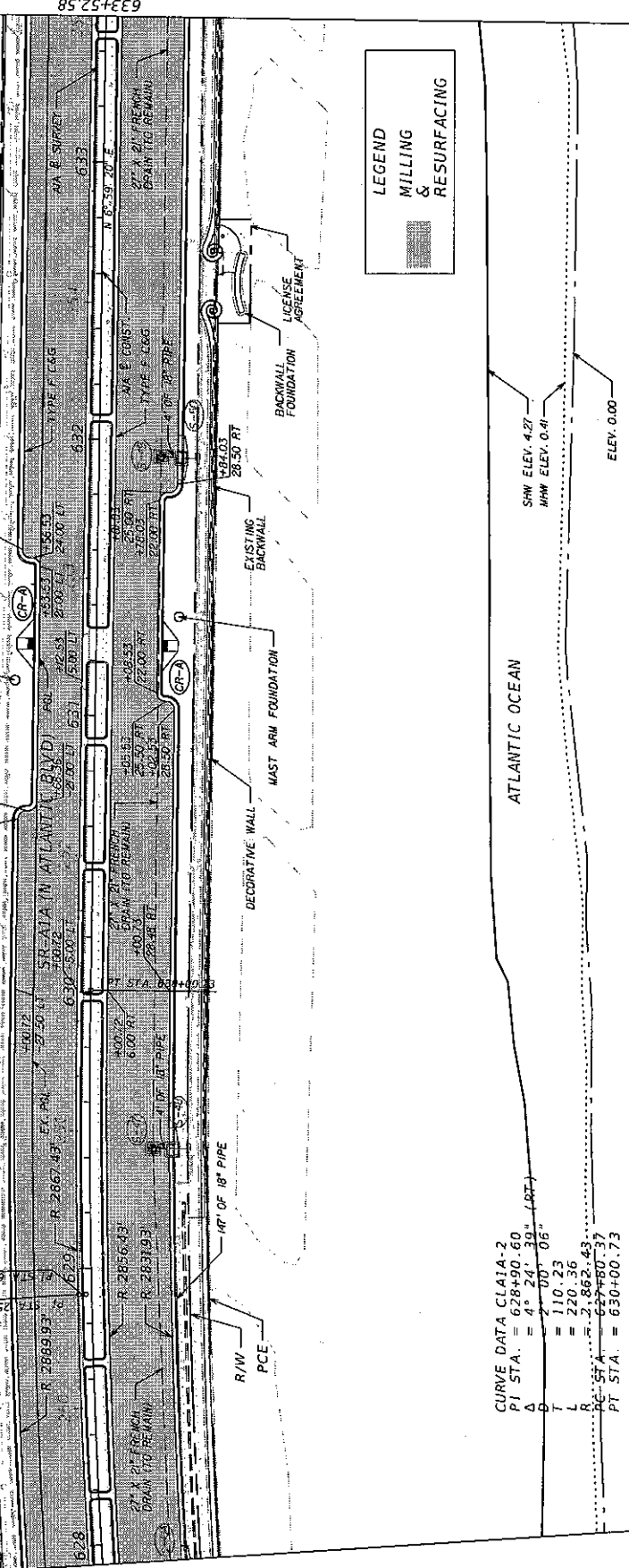
CCCL MONUMENT STAMP
R088 80 SE

R/W

R/W

R/W

R/W



LEGEND
MILLING & RESURFACING

CURVE DATA CL1A1A-2
 PI STA. = 628+90.60
 Δ = $4^{\circ} 24' 39''$ (LRT)
 D = $200' 05''$
 T = 110.23
 L = 220.36
 R = 2,862.43
 PC STA. = 627+80.37
 PT STA. = 630+00.73

ATLANTIC OCEAN

SHW ELEV. 4.27
MHW ELEV. 0.41

ELEV. 0.00

627+92.89

DATE	DESCRIPTION	REVISIONS	DESCRIPTION	DATE

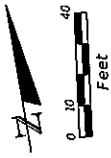
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P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
FDOT DISTRICT IV		ROAD NO.	
3400 WEST COMMERCIAL BLVD.		COUNTY	
FORT LAUDERDALE, FL 33309		BROWARD	
scott.peterson@dot.state.fl.us		FINANCIAL PROJECT ID	
		433688-4-52-01	

PLAN

SHEET NO.

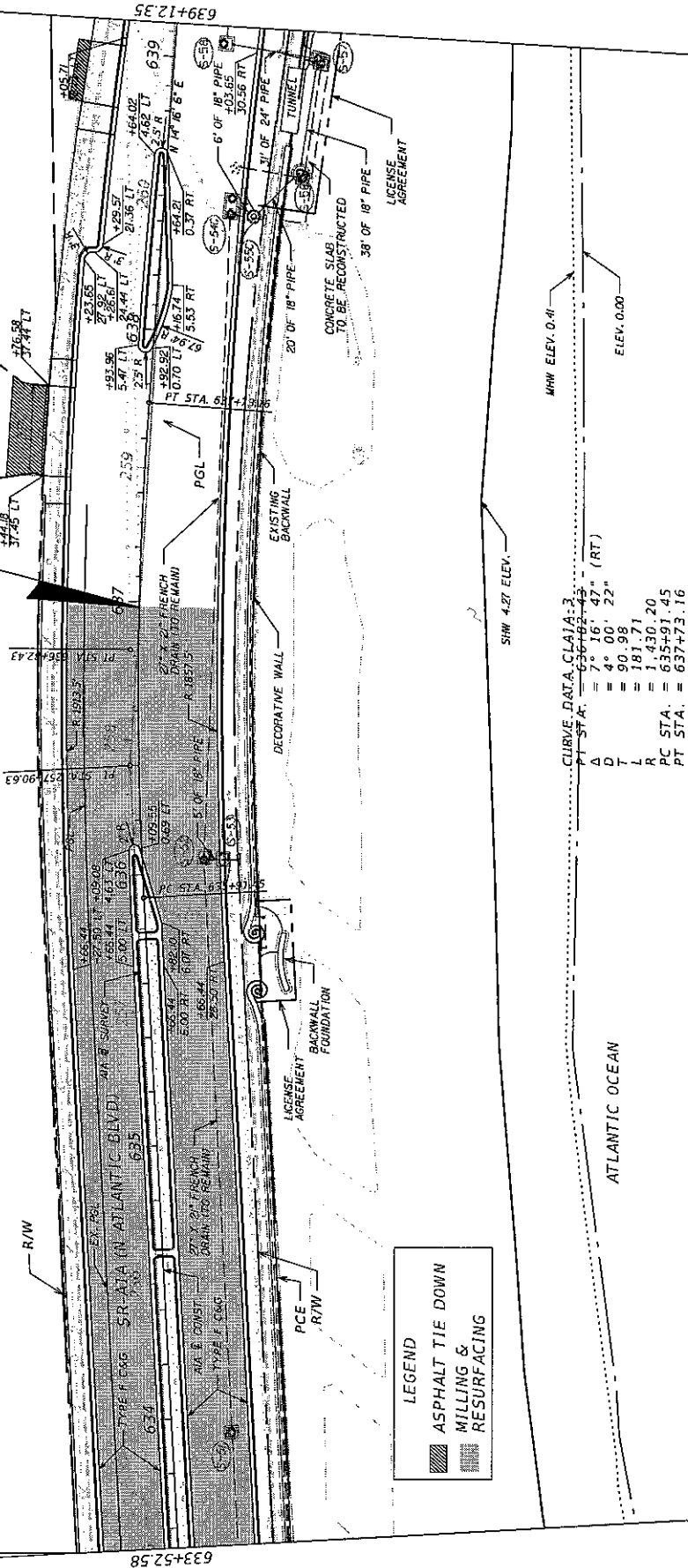
20

STATES



END MILL & RESURFACE
BEGIN RECONSTRUCTION
STA. 636+97.90

HUGH TAYLOR BIRCH STATE PARK



LEGEND
 ASPHALT TIE DOWN
 MILLING & RESURFACING

CURVE DATA CLAJA-3
 AT STA. 636+97.90
 D = 7° 16' 43" (RT)
 T = 4° 00' 22"
 L = 90.98
 R = 181.71
 PC STA. = 635+91.45
 PT STA. = 637+73.16

SHW 4.27 ELEV.
 MHW ELEV. 0.41
 ELEV. 0.00

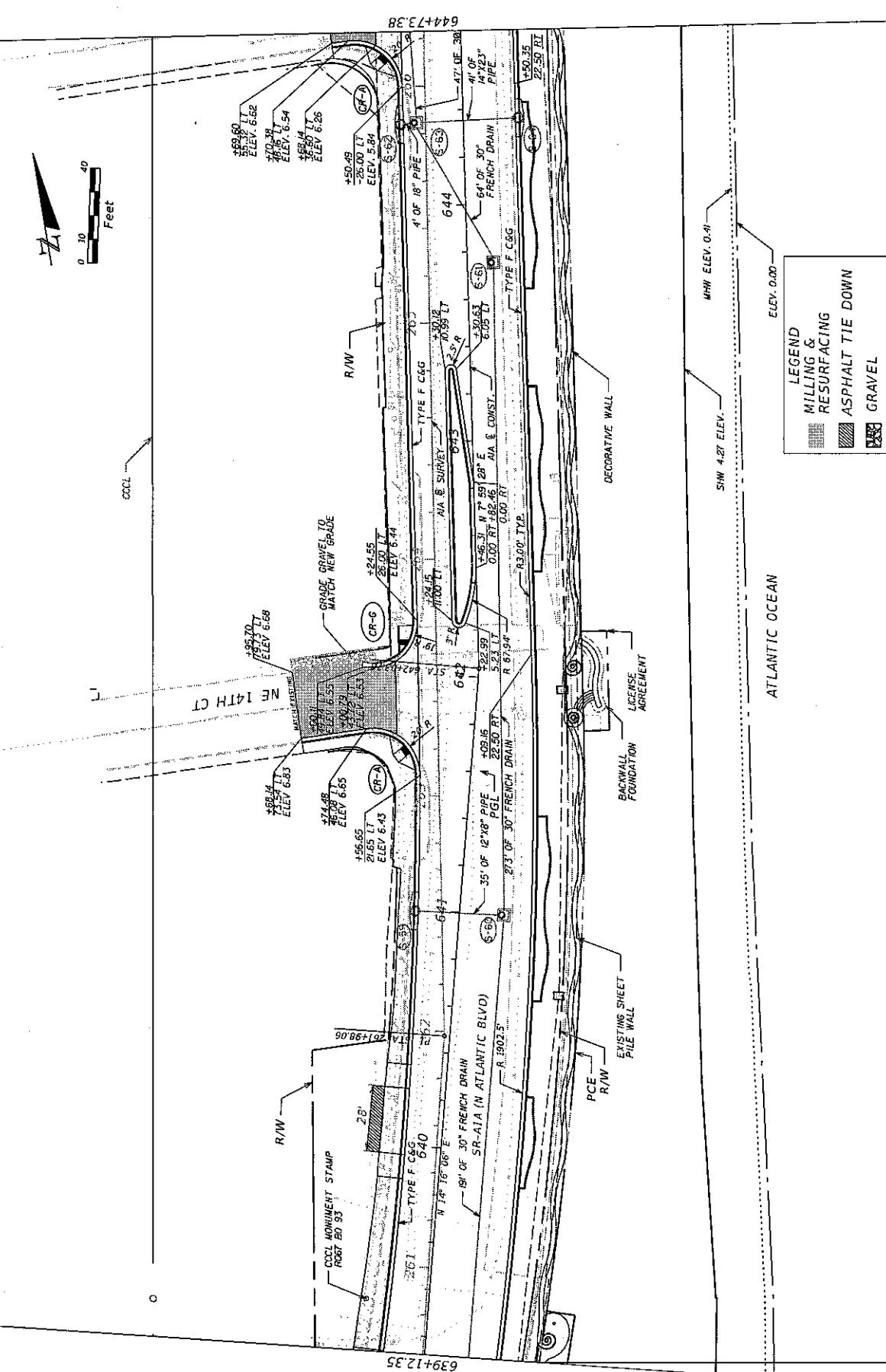
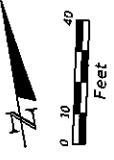
DATE	DESCRIPTION	SCALE	DESCRIPTION

ENGINEER OF RECORD: SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
3400 WEST PALM BEACH AVENUE, SUITE 300		ROAD NO.	
FORT LAUDERDALE, FL 33309		COUNTY	
(954) 777-4416		BROWARD	
scott.peterson@dot.state.fl.us		FINANCIAL PROJECT ID	
		433688-4-52-01	

REVISIONS		SHEET NO.	
			21

PLAN

STATES STINES



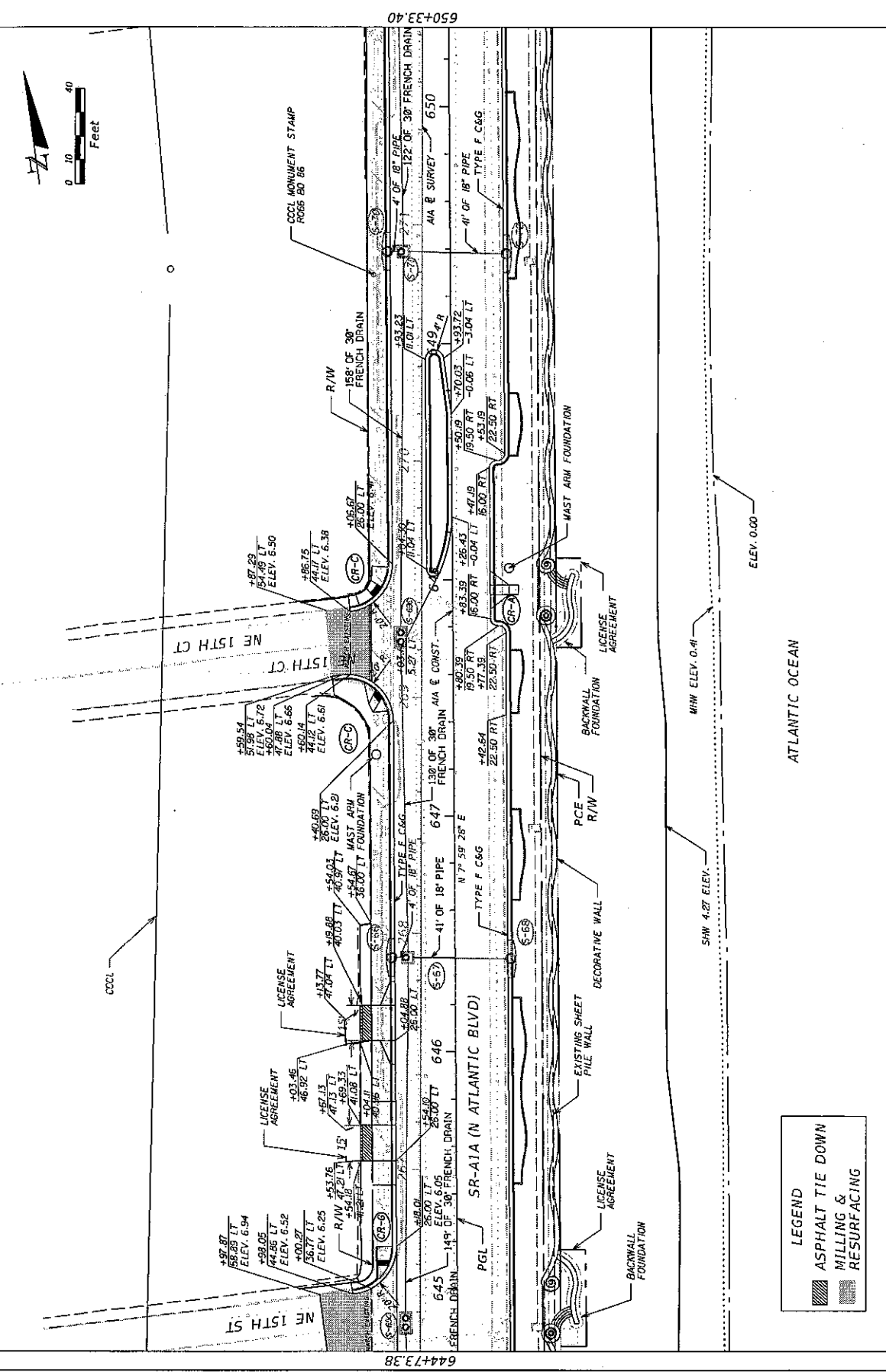
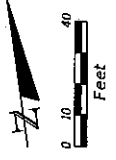
LEGEND

- MILLING & RESURFACING
- ASPHALT TIE DOWN
- GRAVEL

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

ENGINEER OF RECORD - SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
FOOT DISTRICT NO.		COUNTY	
3400 WEST COMMERCIAL BLVD.		BROWARD	
FORT LAUDERDALE, FL 33309		ROAD NO. A1A	
(954) 777-4416		FINANCIAL PROJECT ID 433688-4-52-01	
SCOTT.PETERSON@dot.state.fl.us		SHEET NO. 22	

STATES STINES STILES



LEGEND

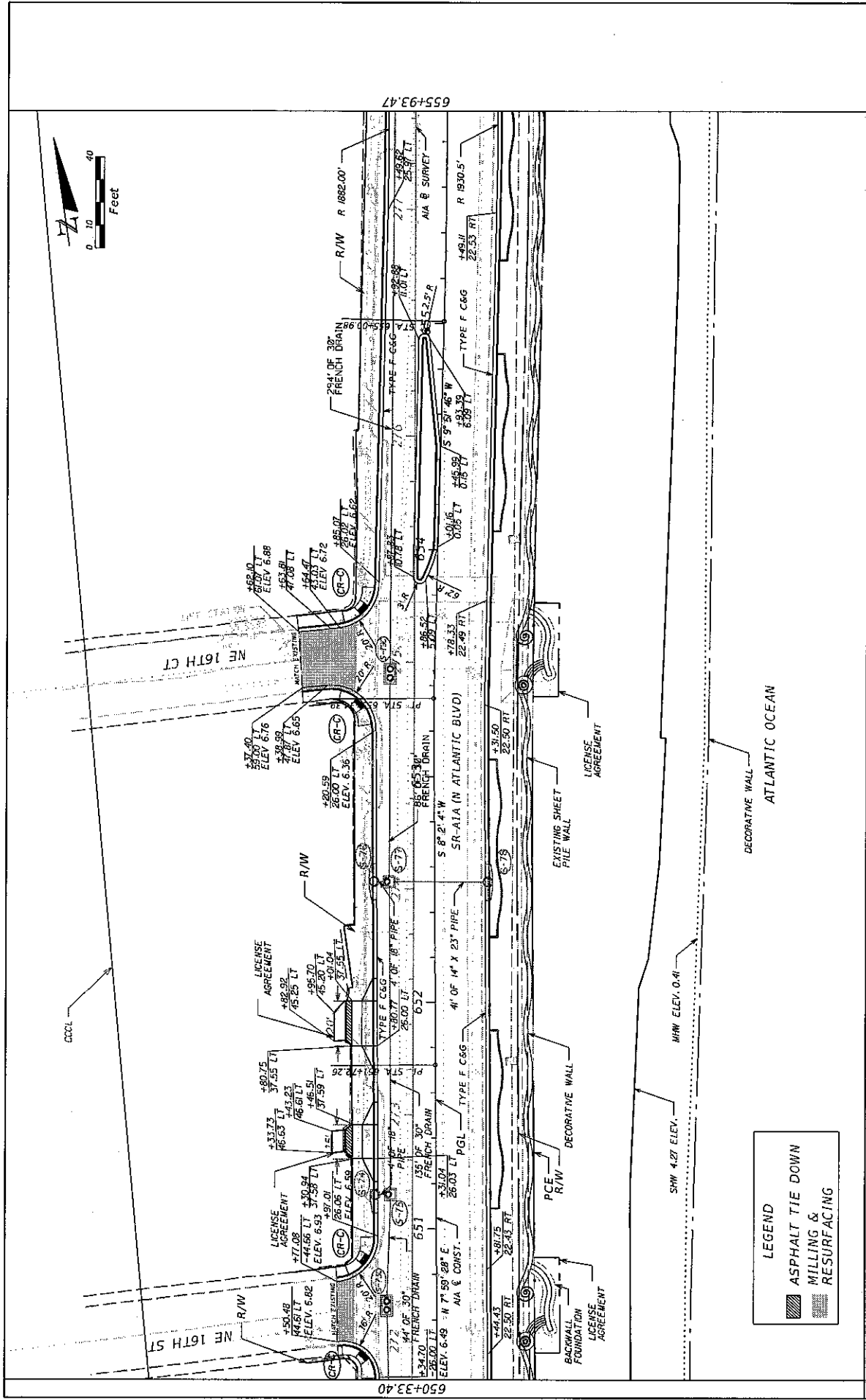
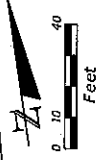
- ASPHALT TIE DOWN
- MILLING & RESURFACING

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
FOOT DISTRICT IV		ROAD NO.	COUNTY
3400 WEST COMMERCIAL BLVD.		A1A	BROWARD
FORT LAUDERDALE, FL 33309		FINANCIAL PROJECT ID	
(954) 777-4416		433688-4-52-01	
SCOTT.PETERSON@dot.state.fl.us			

SHEET NO.		PLAN	
23			

STATES STIPES 85668

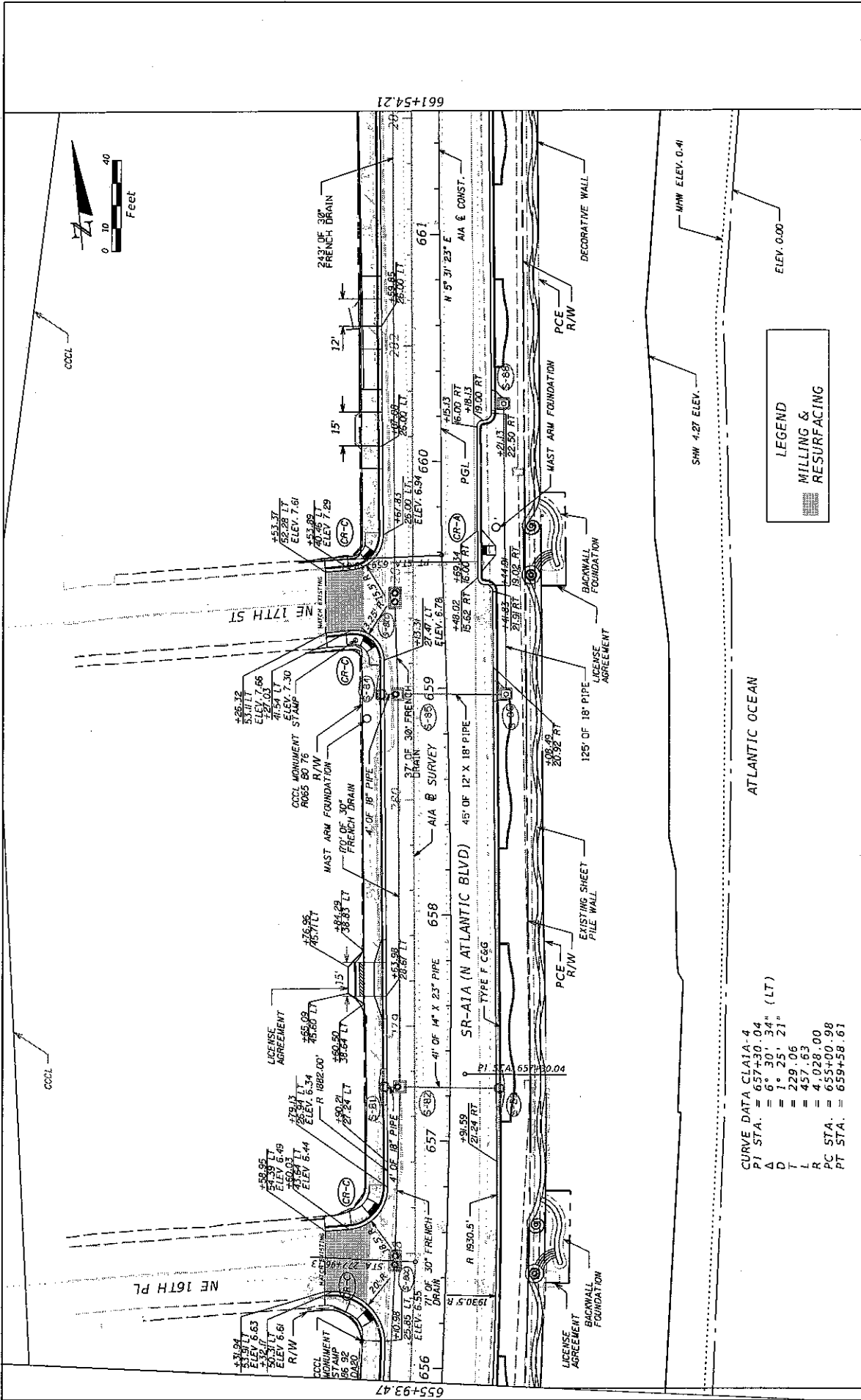


DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

ENGINEER OF RECORD: SCOTT PETERSON, P.E.		STATE OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
5001 DISTRICT COMMERCIAL BLVD.		ROAD NO.	
FORT LAUDERDALE, FL 33309		AIA	
(954) 777-4416		COUNTY	
Scott.peterson@dot.state.fl.us		BROWARD	
		FINANCIAL PROJECT ID	
		433688-4-52-01	

SHEET NO.		PLAN
24		

STATES STINES FILES



CURVE DATA CL A1A-4
 PT STA. = 657+30.04
 A = 8° 30' 34" (LT)
 D = 9° 35' 21"
 L = 329.706
 I = 457.63
 R = 4028.00
 PC STA. = 655+60.98
 PT STA. = 659+58.61

LEGEND
 MILLING &
 RESURFACING

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

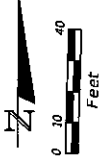
ENGINEER OF RECORD: SCOTT PETERSON, P.E.
 P.E. LICENSE NUMBER 52740
 FDOT DISTRICT IV
 3400 WEST COMMERCIAL BLVD.
 GSEVI TAMPA, FL 33309
 scott.peterson@dot.state.fl.us

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. A1A
 COUNTY BROWARD
 FINANCIAL PROJECT ID 433688-4-52-01

SOURCES: STINES FILES

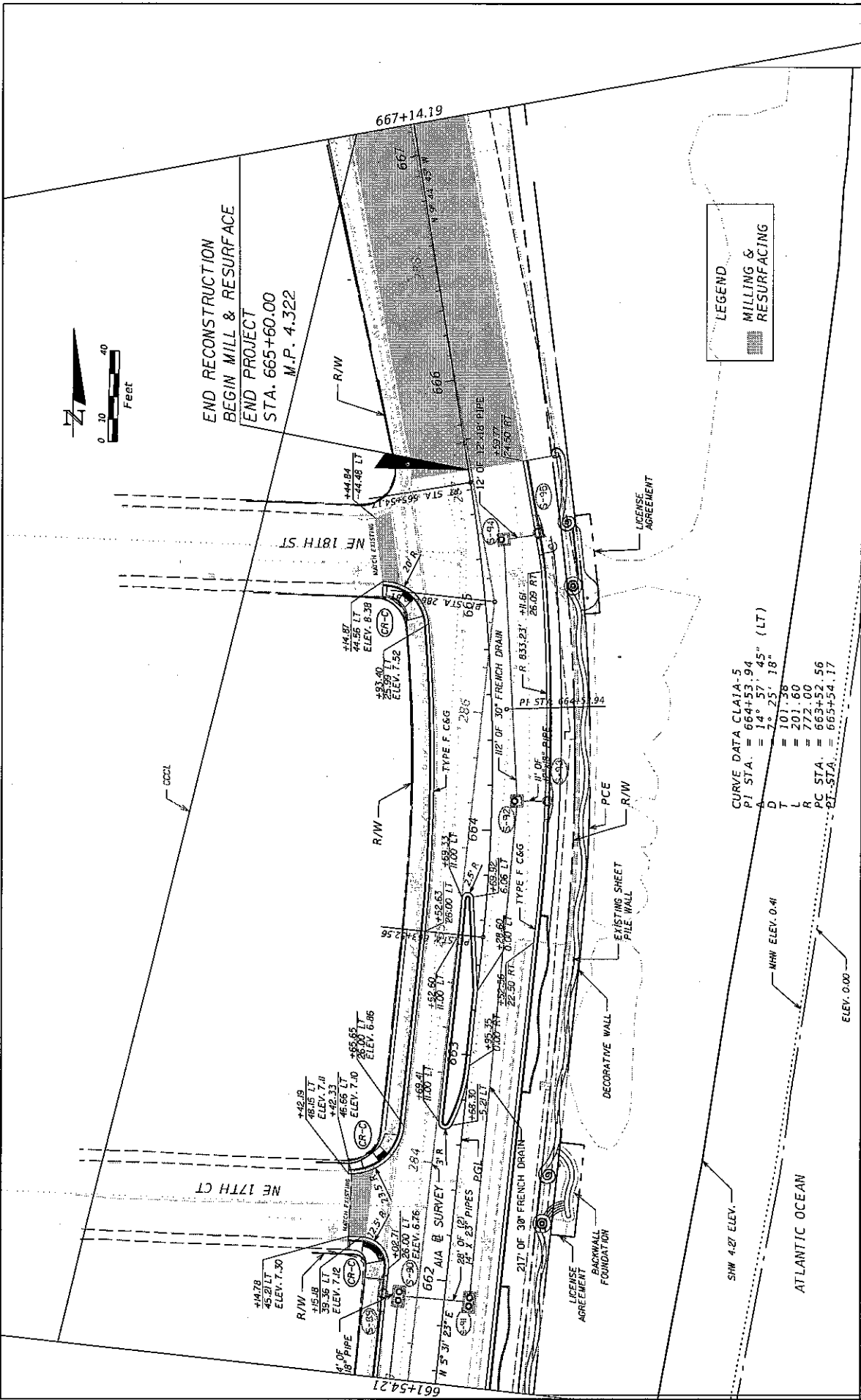
PLAN

SHEET NO. 25



END RECONSTRUCTION
BEGIN MILL & RESURFACE
END PROJECT
STA. 665+60.00
M.P. 4.322

LEGEND
MILLING &
RESURFACING

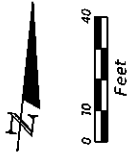


CURVE DATA CLAI1A-5
PI STA. = 664+53.94
A = 14° 57' 45" (LT)
D = 7° 25' 18"
L = 101.38
T = 201.60
PC STA. = 663+52.56
R = 772.00
PT STA. = 665+54.17

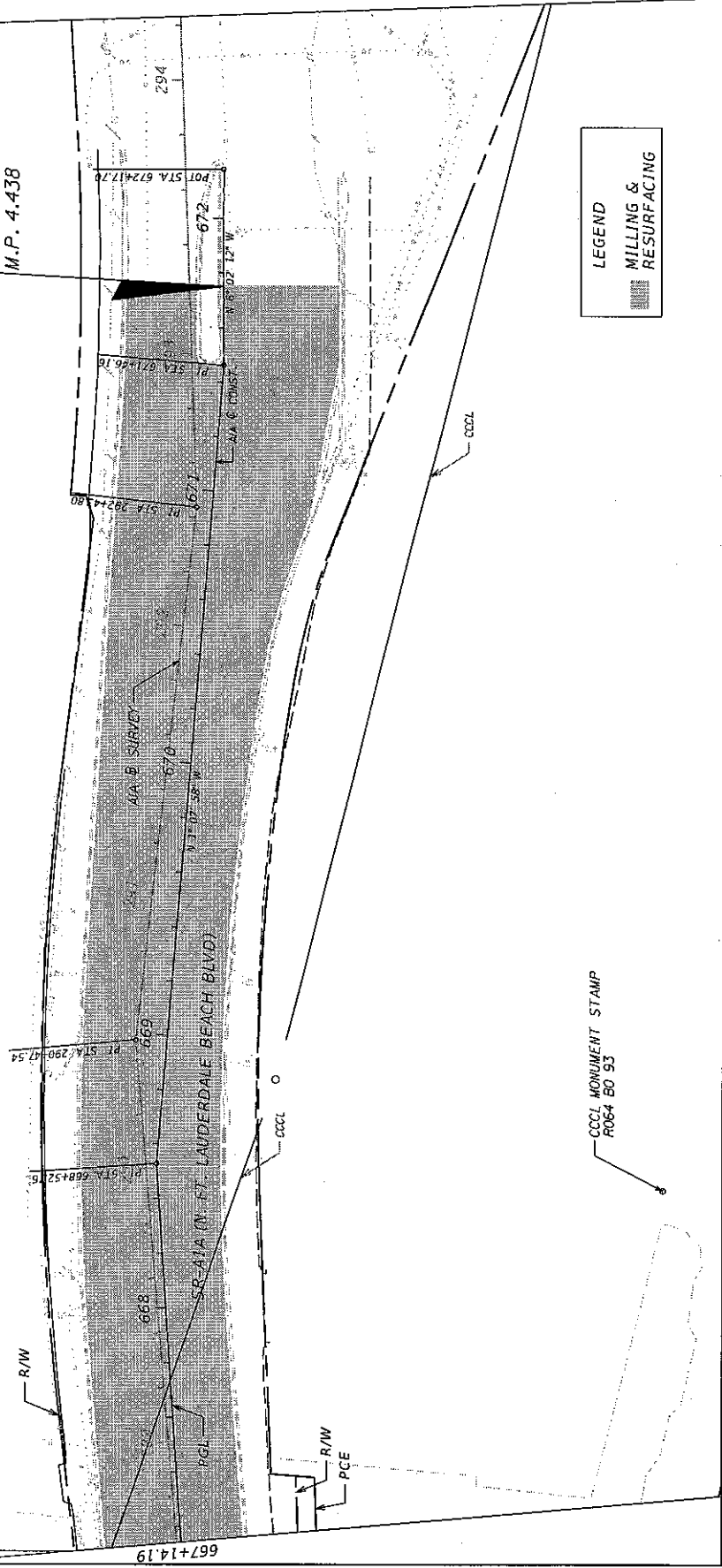
REVISIONS		DATE		DESCRIPTION	

ENGINEER OF RECORD: SCOTT PETERSON, P.E.		STATES OF FLORIDA	
P.E. LICENSE NUMBER 52740		DEPARTMENT OF TRANSPORTATION	
FOOT DISTRICT IV		ROAD NO.	FINANCIAL PROJECT ID
3400 WEST COMMERCIAL BLVD.		COUNTY	433688-4-52-01
FORT LAUDERDALE, FL 33309		BROWARD	
Scott.Peter@dot.state.fl.us		AIA	

PLAN



END MILL & RESURFACE
 END CONSTRUCTION
 STA. 671+75.00
 M.P. 4.438



LEGEND
 MILLING &
 RESURFACING

REVISIONS		STATE OF FLORIDA		SHEET NO.
DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION	NO.	
		ENGINEER OF RECORD: SCOTT PETERSON, P.E.	ROAD NO.	27
		P.E. LICENSE NUMBER 52740	A1A	
		FOOT DISTRICT IV	COUNTY	PLAN
		3400 WEST COMMERCIAL BLVD.	BROWARD	
		FORT LAUDERDALE, FL 33309	FINANCIAL PROJECT ID	433688-4-52-01
		(954) 777-4416		
		SCOTT.PETERSON@dot.state.fl.us		

SUBSECS STRES STRES

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

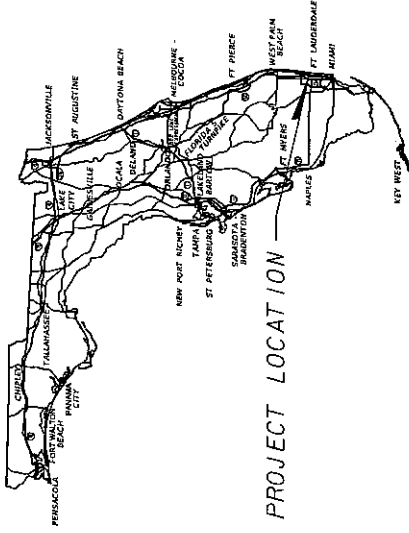
FINANCIAL PROJECT ID 433688-4-52-01

BROWARD COUNTY (86050)
STATE ROAD NO. A1A

LIGHTING PLANS

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	GENERAL NOTES
L-4	POLE DATA AND LEGEND
L-5 Thru L-15	LIGHTING PLAN
L-16	UTILITY CONFLICT MATRIX
L-17	LIGHT POLE DETAILS
L-18	SPECIAL WALL / POLE CONFLICT FOOTING DETAIL
L-19	SERVICE POINT DETAILS
L-20	SEA WALL LED STRIP LIGHTING DETAILS



PROJECT LOCATION

LIGHTING SHOP DRAWINGS
TO BE SUBMITTED TO:

ALAN M. KHAN, P.E.
1402 ROYAL PALM BEACH, SUITE 500
ROYAL PALM BEACH, FL. 33411

PLANS PREPARED BY:

EROMAN ANTHONY OF FLORIDA, INC.
1402 ROYAL PALM BEACH, SUITE 500
ROYAL PALM BEACH, FL. 33411
561-555-5723
CONTRACT NO. C8289
VENUE NO. 20-0930314
CERTIFICATE OF AUTHORIZATION *25912

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

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LIGHTING PLANS
ENGINEER OF RECORD: ALAN M. KHAN, P.E.

P.E. NO.: 61004

FISCAL YEAR	SHEET NO.
14	L-1

FDOT PROJECT MANAGER: SCOTT PETERSON, P.E.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL	REF. SHEET	
			L-5	L-6	L-7	L-8	L-9	L-10	L-11	L-12	L-13	L-14	L-15	PLAN	FINAL	PLAN			FINAL
830-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	158	757	1910	1777	1907	1889	1917	2044	1950	1706	1112	17127	17127				
830-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	0	0	88	0	80	0	23	142	214	86	147	778	778				
830-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	LF	196	523	531	522	601	536	564	529	535	531	384	5453	5453				
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	LF	227	564	592	582	588	572	590	583	586	589	444	5928	5928				
635-2-11	PULL & SPlice BOX, F&I, 13"x 24" COVER SIZE	EA	0	1	10	8	11	8	12	17	21	18	13	119	119				
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	569	1765	1941	1764	1992	1954	1829	2007	2011	1786	1472	19091	19091				
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	LF	600	2209	3588	3989	5591	4722	5295	5913	6801	5155	4592	50856	50856				
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 TO NO. 2	LF	0	0	0	0	744	788	0	0	0	0	0	1532	1532				
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	0	0	0	0	0	131	1283	1190	473	1060	551	4688	4688				
715-519-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	EA	2	8	12	15	15	15	15	15	16	15	10	138	138				
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	0	0	1	0	1	0	0	0	1	0	1	4	4				
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	EA	3	9	10	9	9	9	9	10	9	9	9	94	94				

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

FROMAN ANTHONY OF FLORIDA, INC. 10501 N. HWY. 1, SUITE 100 ROYAL PALM BEACH, FL 33411 PHONE 561-993-9733 FAX 561-993-9733 CERTIFICATE OF AUTHORIZATION 25912		ROAD NO. A1A COUNTY BROWARD FINANCIAL PROJECT ID 433686-4-52-01	STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION	TABULATION OF QUANTITIES	SHEET NO. L-2
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1/17/2013 10:52:38 AM K:\6019\17-41\app\m\y\33868645201\qnting\1.tbl\01.tbl

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO ANY UNDERGROUND WORK. THE UTILITY COMPANY WILL LOCATE AND IDENTIFY THEIR FACILITIES. UTILITY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBER
AT&T FLORIDA	OTIS KERVIE	954-372-2610
BROWARD CO. - TRAFFIC DIVISION	SHARON GROSS	954-847-2541
BROWARD CO. - WATER & WASTEWATER	DAVID J. O'CONNOR	954-831-0910
CITY OF COCONUT CREEK	RAJ VERMA	954-973-6786
CITY OF MARGATE	SAM MAY	954-972-8126
FLORIDA POWER & LIGHT	LEONARD MAXWELL-NEUBOLD	954-447-8405
FLORIDA GAS TRANSMISSION	MARK AUGUSTIN	954-433-0800
FLORIDA GAS TRANSMISSION	TAMARA AUGUSTIN	407-838-7000
TECO PEOPLES GAS	JOSEPH SANCHEZ	954-433-0805
	MAX CHAMORRO	954-453-0872

2. MAINTAINING AGENCIES ARE THE CITY OF FORT LAUDERDALE - SCOTT SUNDERMEIER 1934-828-32021.

3. ALL CONNECTIONS SHALL BE MADE IN THE PULL BOX NEXT TO THE BASE OF THE LIGHT POLES UTILIZING THE WATERPROOF POLE CABLE DISTRIBUTION SYSTEM. CONNECTION TO THE GROUND ROD INSIDE THE PULL BOX SHALL BE CAD WELDED. ALL OTHER CONNECTIONS SHALL USE APPROVED CABLE CONNECTORS. PDS SHALL BE IP-68 RATED.

4. THE LOCATIONS OF THE NEW LIGHT POLES MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND/OR EXISTING UTILITIES.

5. ALL CONDUIT TRENCHES SHALL BE BACK FILLED COMPLETELY TO PROVIDE SAFE CROSSING BY EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CAN NOT BE BACK FILLED IN THE SAME DAY/NIGHT OPERATION.

6. THE CONTRACTOR SHALL NOTIFY FLORIDA POWER AND LIGHT CO. (FP&L) AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS, FLORIDA POWER AND LIGHT CO. (AT IT'S OPTION), MAY ASSIST THE CONTRACTOR WITH THE NECESSARY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.

7. ALL MATERIALS SHALL BE NEW AND "UL" LISTED AS APPLICABLE

8. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LEVEL OF ILLUMINATION ON THE TRAVELED ROADWAY THROUGHOUT CONSTRUCTION AND SHALL COORDINATE REMOVAL WITH INSTALLATION.

9. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH NEW ROADWAY LIGHTING POLE. THESE TAGS SHALL BE COORDINATED WITH THE MAINTAINING AGENCY PRIOR TO ORDERING. TAGS SHALL BE IDENTIFICATION TAGS WITH NO IDENTIFICATION TAGS. THE CONTRACTOR MAY PROVIDE A TAG AS FOLLOWS: 1. 1/2" DIA. WITH 1/4" DIA. HOLES. 2. 1/4" DIA. HOLES. 3. FROM BASE IDENTIFICATION TAGS SHALL INCLUDE THE CIRCUIT AND POLE NUMBERS SHOWN ON THE POLE DATA SHEET. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR POLE COMPLETE.

10. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:

- A) LUMINAIRE PHOTO METRICS
- B) POLE STRENGTH CALCULATIONS
- C) LOAD CENTER ELECTRICAL EQUIPMENT

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POWER TO THE LOAD CENTERS AND ALL EXISTING TEMPORARY AND PROPOSED LIGHTING FIXTURES DURING ALL PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE BY THE FOOT.

12. SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLES TO BE OBTAINED USING THE SUBMITTED DIMENSIONS. THIS IS TO BE USED TO VERIFY THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOT CANDLES LEVELS ON THE ROADWAY WITH AN APPROVED, CURRENT-CALIBRATED LIGHT METER.

13. ALL CURRENT CARRYING COMPONENTS SHALL BE OF COPPER CONSTRUCTION AND PROVIDE FULL RATED NEUTRAL BUS AND GROUND BUS.

14. ALL ENCLOSURE(S) SHALL BE SIZED TO ACCOMMODATE ALL SPECIFIED EQUIPMENT MAINTAINING NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) TO MINIMUM CLEARANCES.

15. ENDS OF CONDUITS SHALL BE SEALED WITH ELECTRICIANS PUTTY AFTER WIRING IS COMPLETED.

16. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACK AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY NEC OR NESC FOR CABLE USED.

17. ALL PULL BOX COVERS SHALL BE BOLTED TO PULL BOX.

18. BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE 4 SETS OF AS BUILT PLANS TO THE MAINTAINING AGENCY AND TO FOOT'S BROWARD OPERATIONS SIGNALIZATION AND LIGHTING COORDINATOR AT ANDREW ROBERTSON/STATE F.L.U.S TO HELP PERFORM "SERVICE TAP INSPECTIONS" AS PART OF FINAL ELECTRICAL INSPECTION.

PAY ITEM NOTES:

630-2-11) PAYMENT FOR CONDUIT SHALL BE BASED ON THE HORIZONTAL PATH OF THE INSTALLED CONDUIT BETWEEN THE CENTERS OF PULL BOXES, CABINETS ETC. NO ALLOWANCE SHALL BE MADE FOR THE VERTICAL CLEARANCE FROM THE GROUND. THE WORK INCLUDES A NUMBER OF CONDUIT RUNS IN A SINGLE TRENCH, AS SHOWN ON PLANS.

630-2-12) INCLUDES ALL MATERIALS AND INSTALLATION COSTS. THE WORK INCLUDES A SINGLE PULL BOX AND SHALL BE SPECIFIED ON ANY SHEETS. DEPTH OF BORING WILL BE DETERMINED TO ENSURE AT LEAST 10 FEET VERTICAL CLEARANCE FROM ANY EXISTING CONFLICTING UNDERGROUND UTILITIES.

633-1-114) FIBER OPTIC FOR LED STRING LIGHT FOR THE SEA WALL. INCLUDES FURNISHING & INSTALLING CONDUITS, FIBER OPTIC (100 FIBER), AND ALL OTHER APPURTENANCES TO THE SEA WALL RELATED TO LED STRING LIGHTS TO BE SPECIFIED IN THE TSP.

635-2-11) INCLUDES COST OF PROVIDING CONCRETE SLAB AROUND PULL BOXES.

715-1-12) PAYMENT FOR CONDUCTORS SHALL BE MADE BASED ON THE LINEAR FEET OF A SINGLE CONDUIT. ALL CONDUITS SHALL BE MADE FOR CONNECTION IN PULL BOXES AND CABINETS.

715-518-315) INCLUDES PAYMENT FOR FOUNDATION AS SHOWN ON SHEET L-17 INCLUDING ANY ADDITIONAL COST TO CONSTRUCT FOUNDATIONS IN CONFLICT WITH THE EXISTING WALL FOUNDATION AS SHOWN ON SHEET L-18.

715-7-11) INCLUDES ANY REQUIRED FEE BY FPL TO INCLUDE ALL COSTS INCURRED BY FOOT DETAIL AND PLAN DETAIL SHEET L-19.

715-11-119) LED STRING LIGHT ILLUMINATIONS FOR THE SEA WALL. INCLUDES FURNISHING & INSTALLING 40W LED ILLUMINATORS AND RELATED APPURTENANCES TO BE SHOWN ON THE PLANS AND SPECIFIED IN THE TSP.

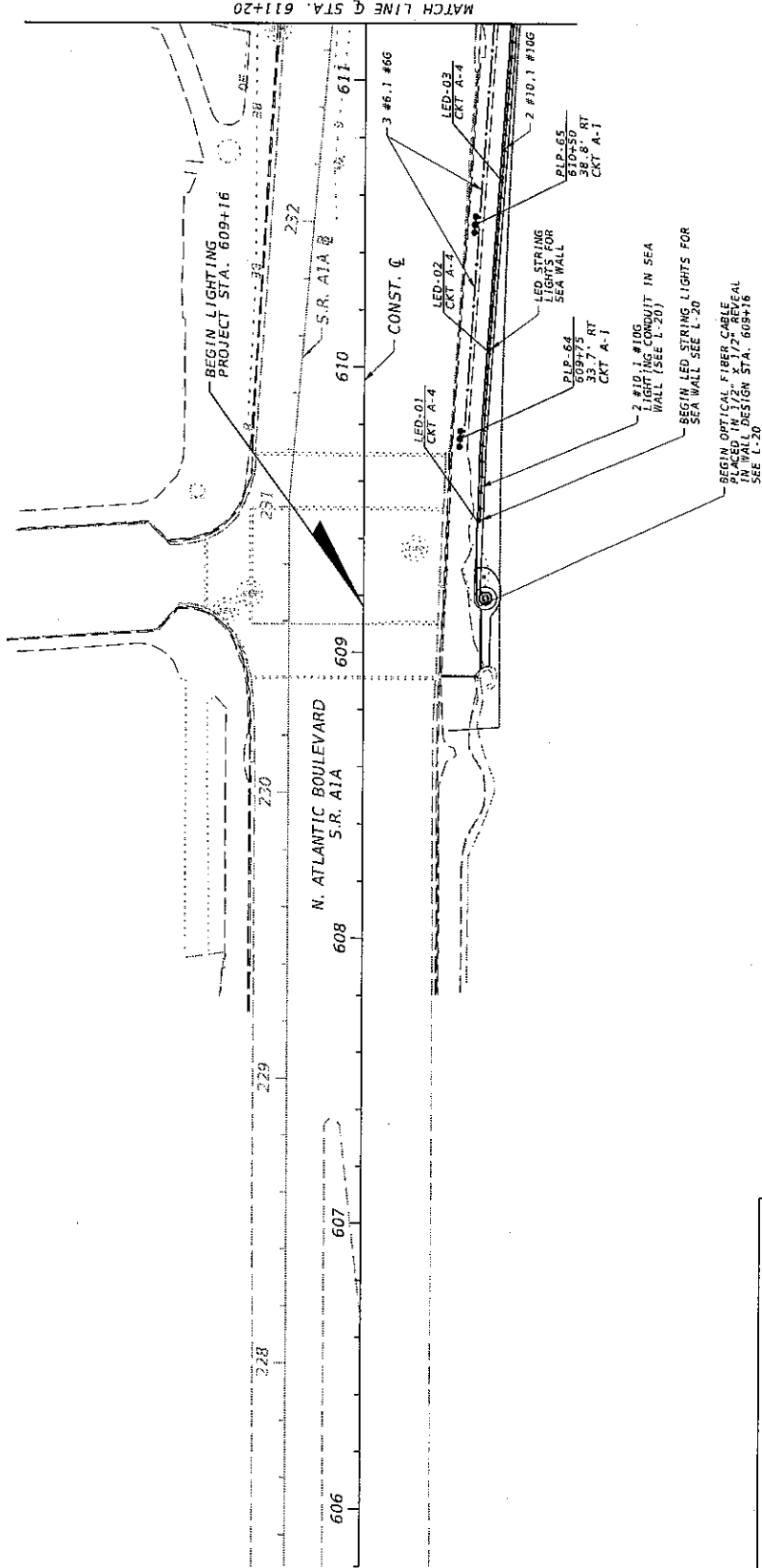
DATE	DESCRIPTION	REVISIONS

FROM: ANTHONY OF FLORIDA, INC.
1002 ROYAL PALM BEACH BLVD., SUITE 300
ROYAL PALM BEACH, FL 33411
PHONE: 561-993-9933
FAX: 561-993-9933
CERTIFICATE OF AUTHORIZATION 2582

STATE OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
ROAD NO.	FINANCIAL PROJECT ID
AIA	BROWARD 43688-4-52-01

1/17/2013 10:02:33 AM 4:40:18:17-414494949V338864261V349494949
GENERAL NOTES
 SHEET NO. L-3

PAY ITEM NO.	DESCRIPTION	TOTAL		UNIT
		L-S	EA	
630-2-11	CONDUIT - FURNISH & INSTALL. OPEN TRENCH	158		LF
630-2-14	CONDUIT - FURNISH & INSTALL. ABOVE GROUND (WALL MOUNT)	158		LF
630-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 92-144 FIBERS (WALL MOUNT)	227		LF
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	569		LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	600		LF
715-116-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, P&I (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	2		EA
715-1-119	LUMINAIRE, P&I, RADIANT, SPECIAL (LED SEA WALL)	3		EA



P&I POLE WITH LUMINAIRES MARKED HERE ARE IN GENERAL TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON P&I OWNED LIGHTING EQUIPMENT WILL BE DONE BY P&I.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

SHAWK GROUP OF FLORIDA, INC.
 1405 ROYAL PALM BEACH BLVD., SUITE 500
 ROYAL PALM BEACH, FL 33411
 TEL: 561-233-9223
 FAX: 561-233-9224
 CERTIFICATE OF AUTHORIZATION 3582

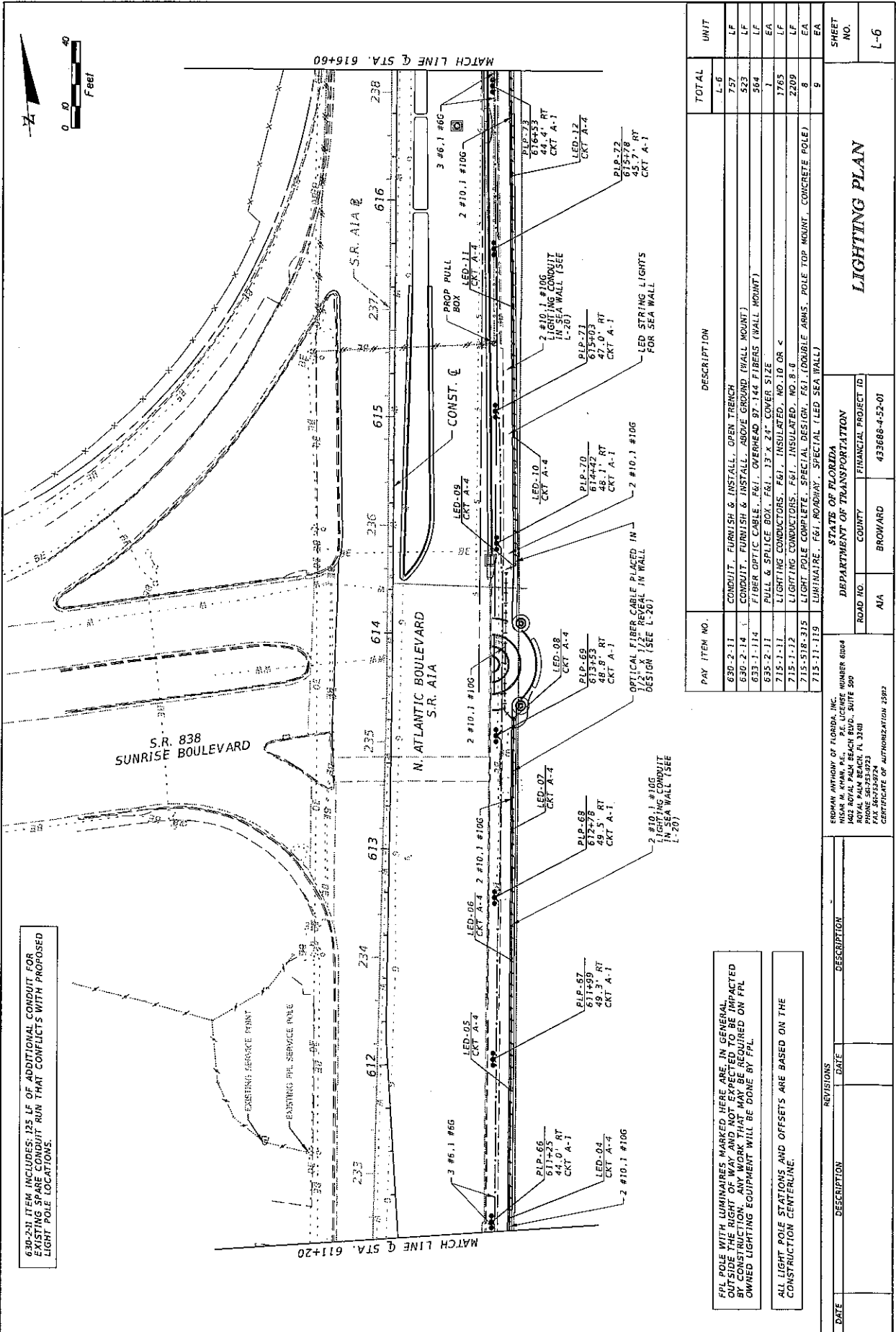
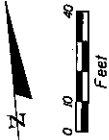
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. A1A
 COUNTY BROWARD
 FINANCIAL PROJECT ID 433688-4-55-01

SHEET NO. L-5

LIGHTING PLAN

1/18/2013 10:52:38 AM W:\60181-17-A1A\Lighting\433688-4-55-01\Lighting-PLAN-L-5.DWG

630-211 ITEM INCLUDES: 125 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



MATCH LINE @ STA. 611+20

MATCH LINE @ STA. 616+60

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	757	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	523	LF
633-1-114	FIBER OPTIC CABLE, F61, OVERHEAD 87-144 FIBERS (WALL MOUNT)	364	LF
635-2-11	PULL & SPLICE BOX, F61, 13" X 24" COVER SIZE	1	EA
715-1-11	LIGHTING CONDUCTORS, F61, INSULATED, NO.10 OR <	1765	LF
715-1-12	LIGHTING CONDUCTORS, F61, INSULATED, NO.8-6	2209	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F61 (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	8	EA
715-11-119	LUMINAIRE, F61, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

DATE	DESCRIPTION	DATE	DESCRIPTION

SHUMAN AUTHORITY OF FLORIDA, INC.
 1402 ROYAL PALM BEACH BLDG., SUITE 500
 ROYAL PALM BEACH, FL 33408
 PHONE: 561-933-9723
 FAX: 561-933-9723
 CERTIFICATE OF AUTHORIZATION 2582

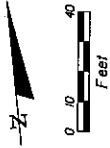
STA 715 OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 A1A BROWARD 433688-4-52-01

LIGHTING PLAN

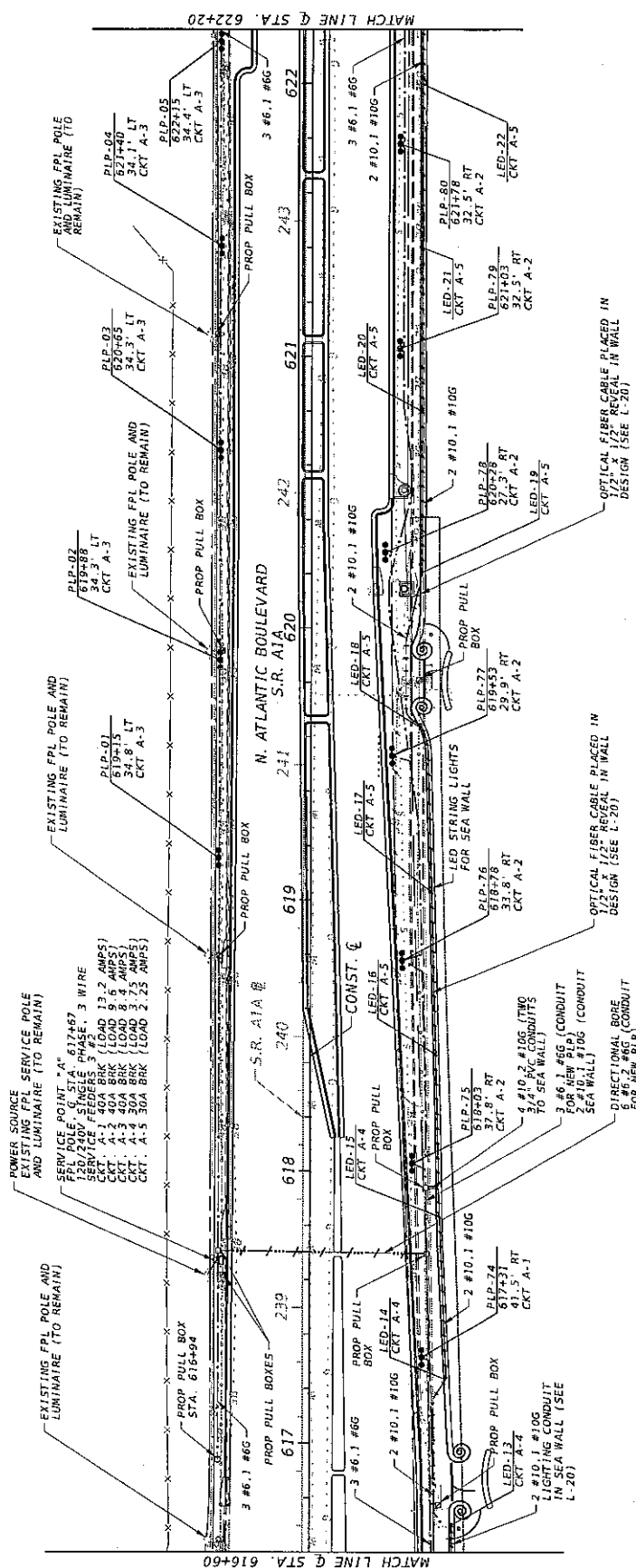
SHEET NO. L-6
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FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.



630-2-11 ITEM INCLUDES: 643 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



PAY ITEM NO.	DESCRIPTION	TOTAL	
		UNIT	QUANTITY
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	L-7	1910
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	88
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	LF	531
633-1-114	FIBER OPTIC CABLE, F61, OVERHEAD 97-144 FIBERS (WALL MOUNT)	LF	592
635-2-11	PULL & SPLICE BOX, F61, 13" x 24" COVER SIZE	EA	10
715-1-11	LIGHTING CONDUCTORS, F61, INSULATED, NO.10 OR <	LF	1941
715-1-12	LIGHTING CONDUCTORS, F61, INSULATED, NO.8-6	LF	5888
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F61, DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE	EA	12
715-7-11	LOAD CENTER, F61, SECONDARY VOLTAGE	EA	1
715-11-119	LUMINAIRE, F61, ROADWAY, SPECIAL (LED SEA WALL)	EA	10

DATE	DESCRIPTION	DATE	DESCRIPTION

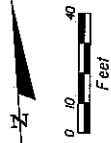
ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

FPL POLE WITH LUMINAIRES MARKED HERE ARE IN GENERAL CONTRACTOR'S RESPONSIBILITY. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

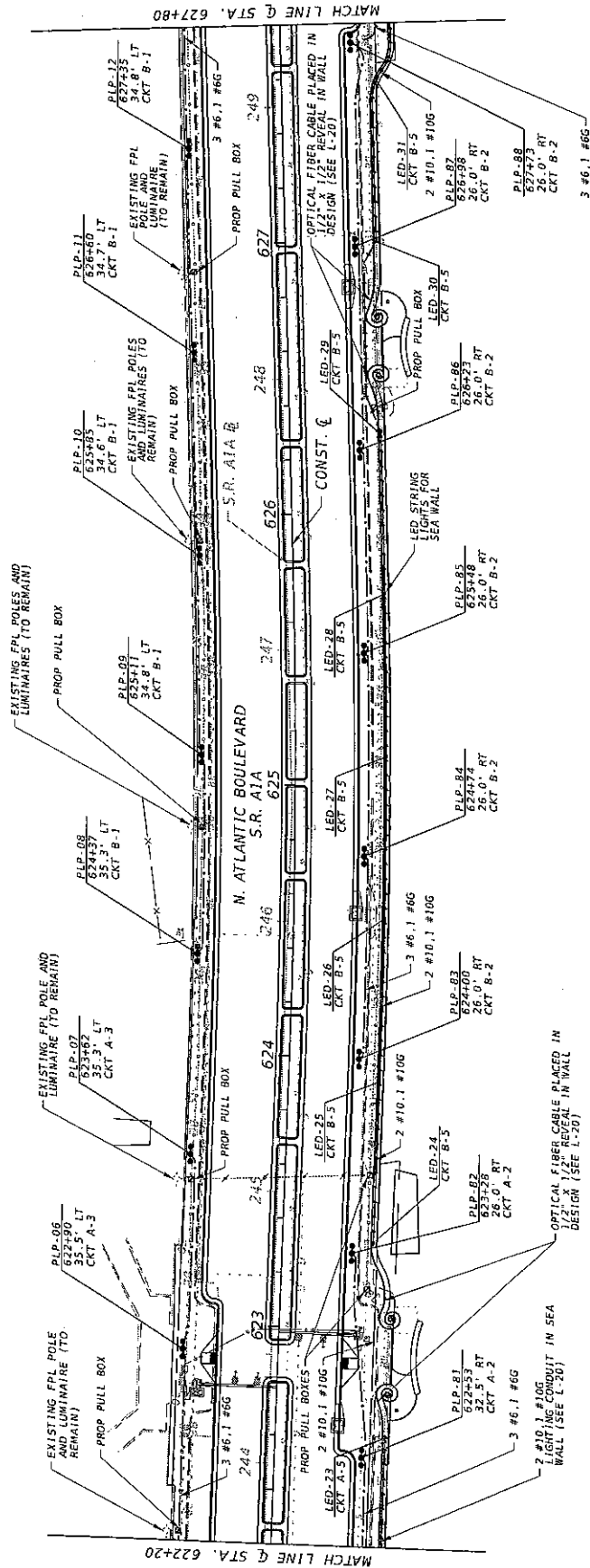
REVISIONS

STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 433688-4-52-01		1/17/2013 10:57:42 AM W:\001817742\pumpny\3586845201\Lighting-CAL\10.508
SHEET NO. L-7		PROJECT NO. 433688-4-52-01
ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 433688-4-52-01		PROJECT NO. 433688-4-52-01
FINANCIAL PROJECT ID 433688-4-52-01		PROJECT NO. 433688-4-52-01
FINANCIAL PROJECT ID 433688-4-52-01		PROJECT NO. 433688-4-52-01

630-2-11 ITEM INCLUDES: 699 LF OF ADDITIONAL CONDUIT, FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



PAY ITEM NO.	DESCRIPTION	TOTAL		UNIT
		L-B	L-F	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1777		L-F
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	522		L-F
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	562		L-F
633-2-11	PULL & SPICE BOX, F&I, 13"x 24" COVER SIZE	8		EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	1764		L-F
715-1-12	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE	3989		EA
715-11-313	LUMINAIRE, F&I, ROADWAY, SPECIAL LED SEA WALL	15		EA
715-11-319		9		EA



FPL POLE WITH LUMINAIRES MARKED HERE ARE, IN GENERAL, OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ADDITIONAL INFORMATION THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION		PROJECT NO.	
COUNTY		BROWARD		FINANCIAL PROJECT ID	
ROAD NO.		A/A		433688-4-52-01	

BRONKH AUTHORITY OF FLORIDA, INC.
 402 ROYAL PALM BEACH BLVD., SUITE 500
 ROYAL PALM BEACH, FL 33411
 PHONE: 561-992-9923
 FAX: 561-992-9923
 CERTIFICATE OF AUTHORIZATION 2532

11/15/2013 10:25:45 AM \\s0101-37-214\lighting\43368845201\lighting\PLAN01.dwg

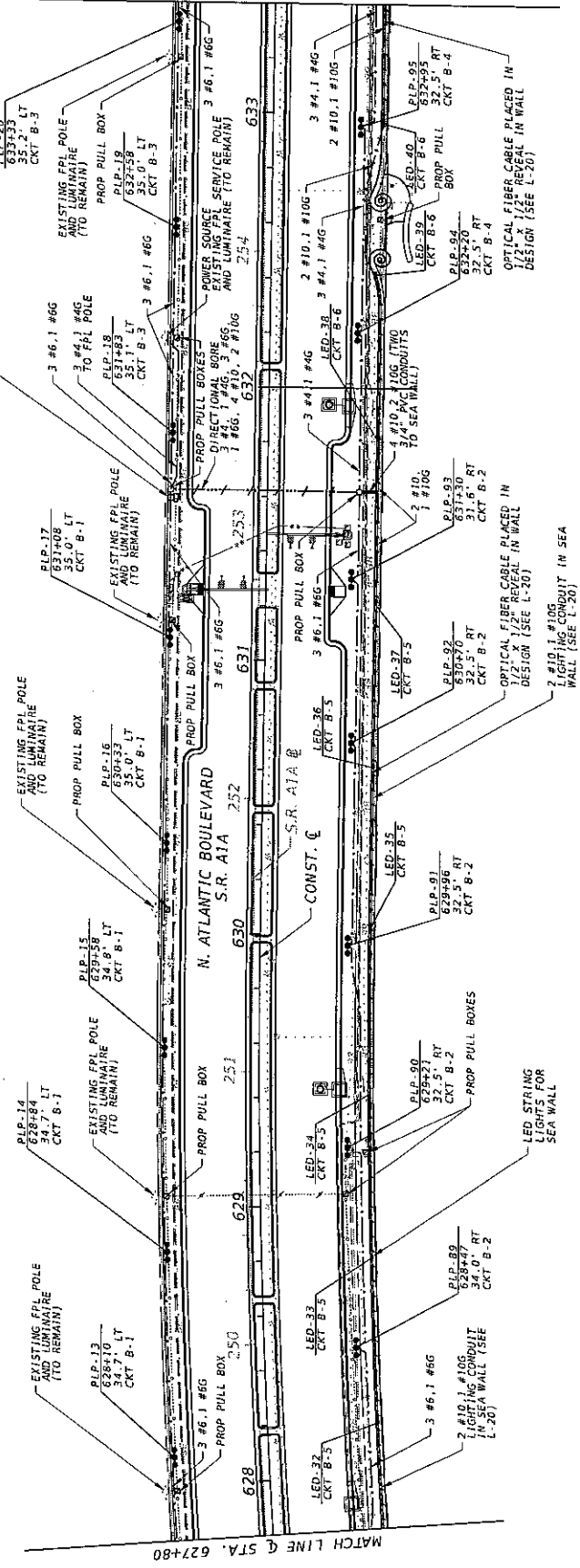
PAGE NO. LIGHTING PLAN SHEET NO. L-8

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	L-9	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL ROBE	1007	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	80	LF
630-2-15	PULL & SPlice BOX, F&I, 13"x24" COVER SIZE	601	EA
630-2-16	FIBER OPTIC CABLE, F&I, OVERHEAD, 97-146 FIBERS (WALL MOUNT)	598	EA
630-2-17	PULL & SPlice BOX, F&I, 13"x24" COVER SIZE	71	EA
630-2-18	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR 4	1982	LF
630-2-19	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	5891	LF
630-2-20	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	744	EA
630-2-21	LOAD CENTER, F&I, SECONDARY VOLTAGE	15	EA
630-2-22	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	1	EA
630-2-23		9	EA

630-2-21 ITEM INCLUDES: 686 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



SERVICE POINT "B"
FPL POLE, SINGLE PHASE, 3 WIRE
200/240V
CKT. B-1 40A BRK (LOAD 12.0 AMPS)
CKT. B-2 40A BRK (LOAD 13.0 AMPS)
CKT. B-3 40A BRK (LOAD 16.0 AMPS)
CKT. B-4 40A BRK (LOAD 18.0 AMPS)
CKT. B-5 30A BRK (LOAD 3.5 AMPS)
CKT. B-6 30A BRK (LOAD 4.25 AMPS)



FPL POLE WITH LUMINAIRE MARKED HERE ARE IN GENERAL TO BE REMOVED AND NOT TO BE RE-INSTALLED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

DATE	DESCRIPTION	REVISIONS	DESCRIPTION

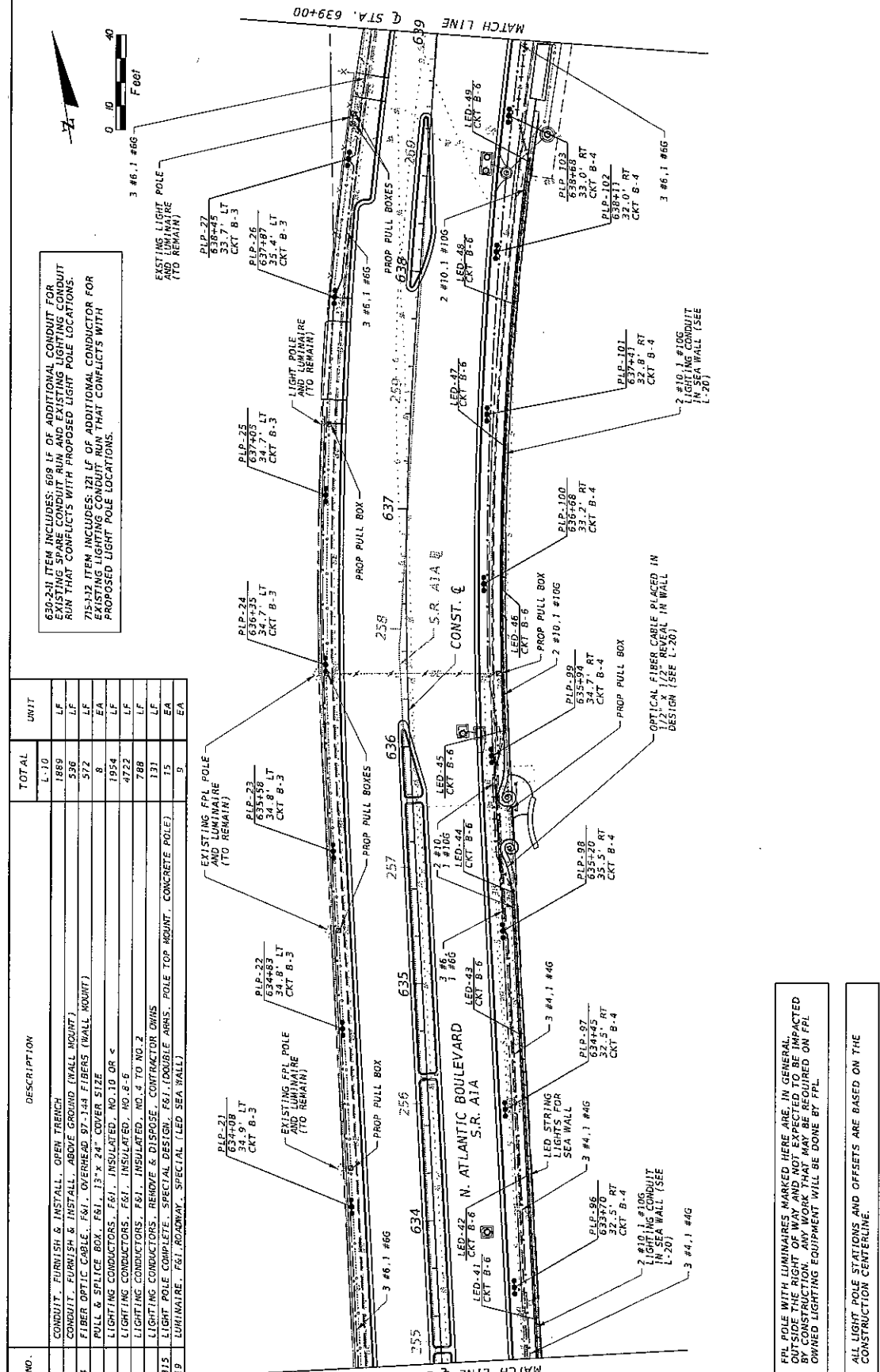
STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
MURRAY INTERNATIONAL OF FLORIDA, INC.		COUNTY	
MURRAY INTERNATIONAL OF FLORIDA, INC.		BROWARD	
400 N. PALM BEACH BLVD., SUITE 500		FINANCIAL PROJECT ID	
ROYAL PALM BEACH, FL 33401		433688-4-52-01	
TEL: 561-833-9923		AIA	
FAX: 561-833-9924			
CERTIFICATE OF AUTHORIZATION 2582			

SHEET NO.	L-9
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1/17/2013 10:52:46 AM K:\6181-17-111\DRAWING\630-2-21\LIGHTING-PLAN.DWG

PAY ITEM NO.	DESCRIPTION	TOTAL		UNIT
		L-10	EA	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1889		LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	536		LF
633-1-114	FIBER OPTIC CABLE, F81, OVERHEAD 87-143 FIBERS (WALL MOUNT)	572		LF
635-2-11	PULL & SPlice BOX, F81, 13" X 24" COVER SIZE	8		EA
715-1-11	LIGHTING CONDUCTORS, F81, INSULATED, NO. 10 OR <	1954		LF
715-1-12	LIGHTING CONDUCTORS, F81, INSULATED, NO. 8-6	4722		LF
715-1-13	LIGHTING CONDUCTORS, F81, INSULATED, NO. 4 TO NO. 2	788		LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F81, DOUBLE ARMIS, POLE TOP MOUNT, CONCRETE POLE)	131		EA
715-71-119	LUMINAIRE, F81, ROADWAY, SPECIAL (LED SEA WALL)	9		EA

630-2-11 ITEM INCLUDES: 600 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS. 715-1-11 ITEM INCLUDES: 171 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRE MARKED HERE ARE IN GENERAL OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

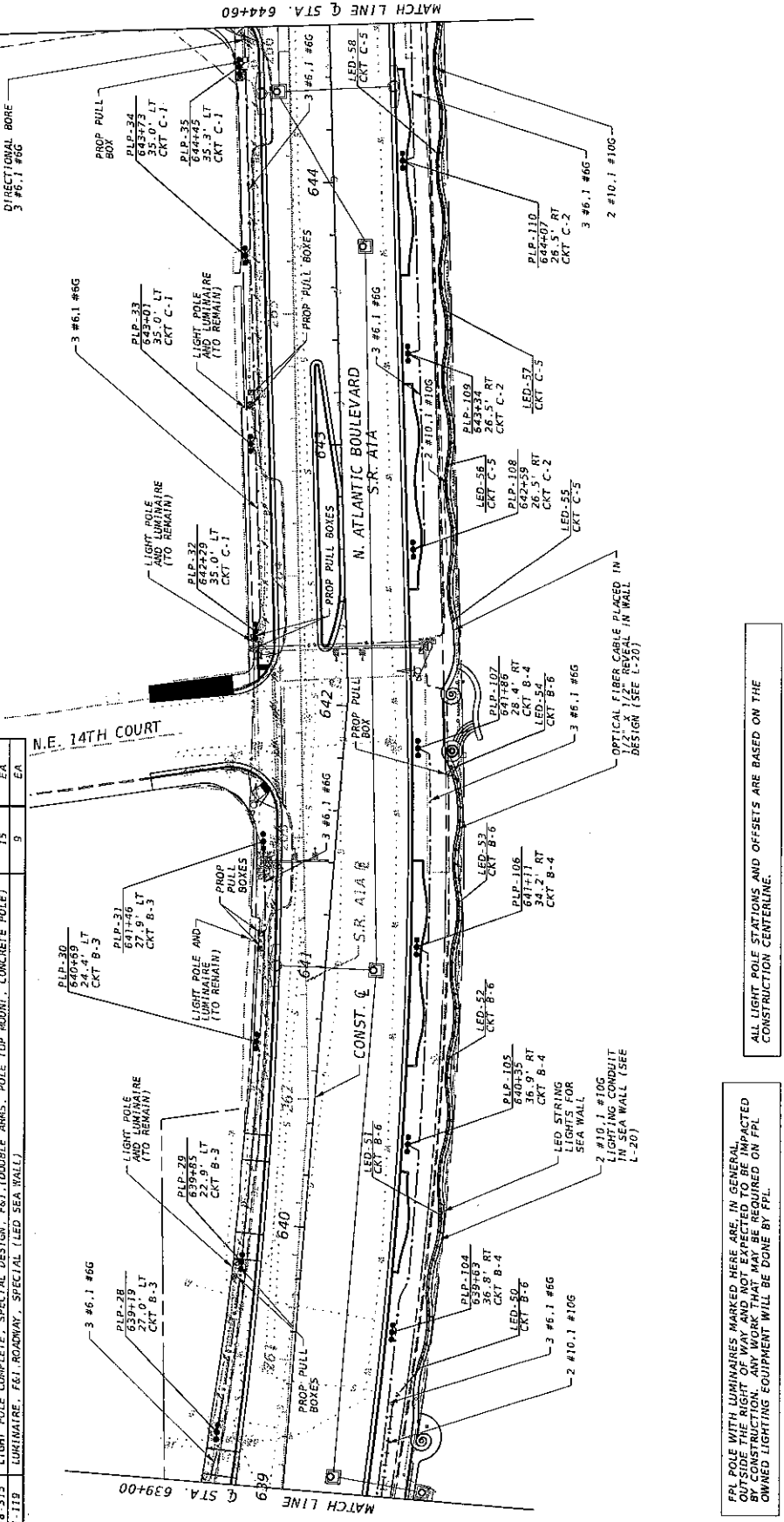
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NO. L-10	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
A1A	BROWARD	433688-4-52-01	
EDMAN ANTHONY OF FLORIDA, INC. NISER K. KHAKH P.E., P.E. LICENSE NUMBER 8004 1402 ROYAL PALM BEACH BLVD., SUITE 500 PALM BEACH, FL 33406 PHONE 561-533-9274 FAX 561-533-9274 CERTIFICATE OF AUTHORIZATION 53012		11/15/2013 10:23:57 AM PROJECT: 433688-4-52-01 N:\PROJECTS\433688-4-52-01\DRAWING\L-10.DWG	

PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	L-11	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	1917	LF
630-2-13	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	23	LF
630-2-14	FIBER OPTIC CABLE, F&I, OVERHEAD 52-144 FIBERS (WALL MOUNT)	564	LF
630-2-15	PULL & SPLICE BOX, F&I, 18"x24" COVER SIZE	590	LF
715-1-11	LIGHTING CONDUCTORS - F&I, INSULATED, NO. 10 OR <	12	EA
715-1-12	LIGHTING CONDUCTORS - F&I, INSULATED, NO. 8 TO NO. 2	1829	LF
715-1-13	LIGHTING CONDUCTORS - F&I, INSULATED, NO. 8 TO NO. 2	5795	LF
715-1-60	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	1283	LF
715-1-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	15	EA
		9	EA

630-2-11 ITEM INCLUDES: 864 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

715-1-12 ITEM INCLUDES: 1273 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.



FPL POLE WITH LUMINAIRES MARKED HERE ARE IN GENERAL OUTSIDE THE RIGHT OF WAY AND NOT EXPECTED TO BE IMPACTED BY CONSTRUCTION. ANY WORK THAT MAY BE REQUIRED ON FPL OWNED LIGHTING EQUIPMENT WILL BE DONE BY FPL.

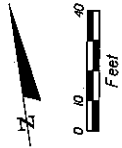
ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	A1A	COUNTY	BROWARD
FINANCIAL PROJECT ID	433686-4-52-01		

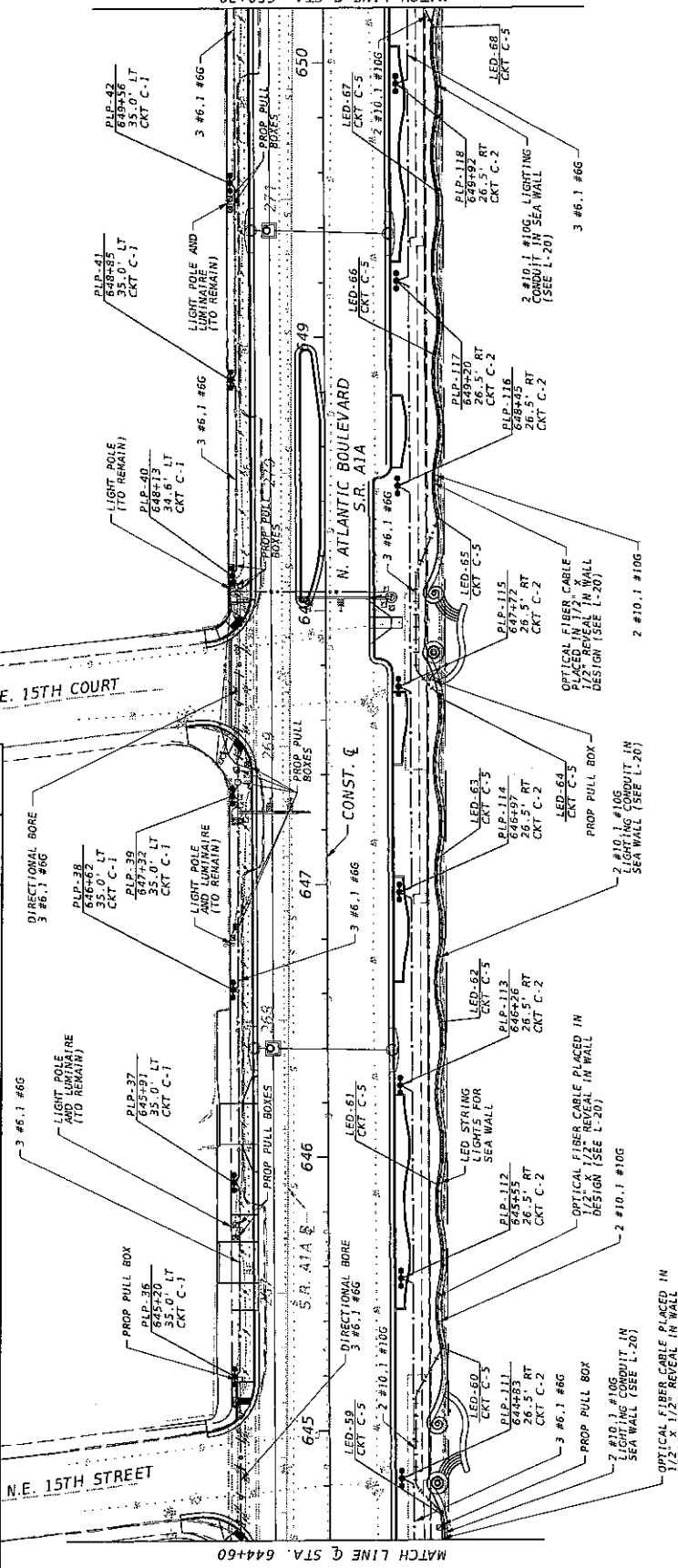
DRYAN ANTHONY OF FLORIDA, INC.	17192013	16/05/23	AM
MISAR M. KHAN, P.E.	FL LICENSE NUMBER 4004		
1402 ROYAL PALM BEACH BOUD. SUITE 300	FL LICENSE NUMBER 433686-4-52-01		
ROYAL PALM BEACH, FL 33409	FINANCIAL PROJECT ID		
PHONE: 561-337-9724	ROAD NO.	A1A	
FAX: 561-337-9724	COUNTY	BROWARD	
CERTIFICATE OF AUTHORIZATION 25092	FINANCIAL PROJECT ID	433686-4-52-01	

SHEET NO.	L-11
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630-2-11 ITEM INCLUDES: 339 LF OF ADDITIONAL CONDUIT FOR EXISTING SPARE CONDUIT RUN AND EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.
 715-1-2 ITEM INCLUDES: 180 LF OF ADDITIONAL CONDUIT FOR PROPOSED LIGHT POLE LOCATIONS.

PAY ITEM NO.	DESCRIPTION	TOTAL		UNIT
		L-12	LF	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	2064	2064	LF
630-2-12	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	142	142	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	329	329	LF
630-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	593	593	EA
630-2-11	PULL & SPlice BOX, F&I, 15" X 24" COVER SIZE	17	17	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	2007	2007	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	5913	5913	LF
715-1-60	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	1190	1190	EA
715-518-315	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	15	15	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	10	10	EA



ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

DATE		REVISIONS		DESCRIPTION	
DATE	DATE	DATE	DATE	DESCRIPTION	DESCRIPTION

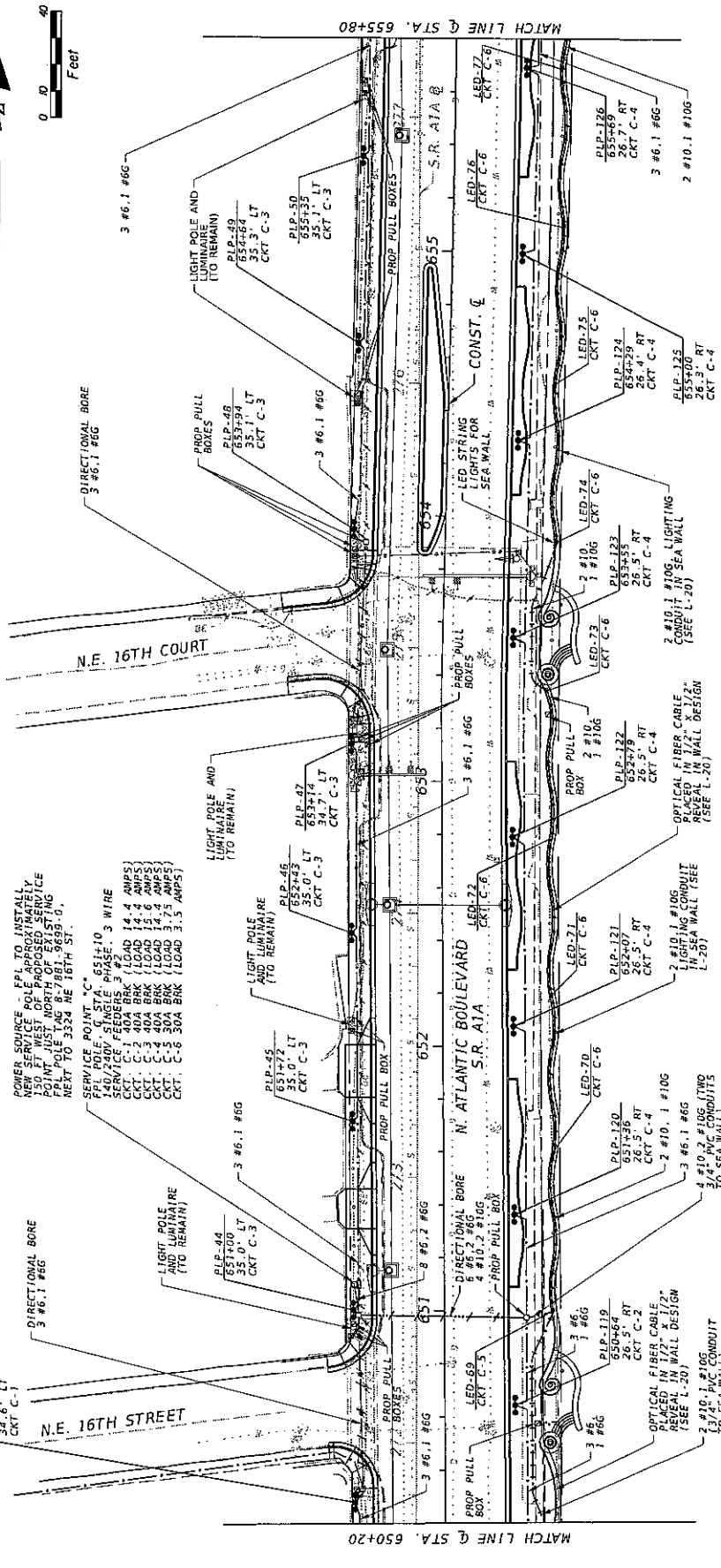
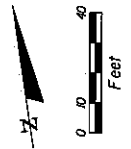
BRIDMAN AUTHORITY OF FLORIDA, INC.
 3402 ROYAL PALM BEACH BLVD., SUITE 500
 ROYAL PALM BEACH, FL 33411
 TEL: 561.753.9724
 FAX: 561.753.9724
 CERTIFICATE OF AUTHORIZATION 3382

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 A1A BROWARD 433668-4-52-01

SHEET NO. L-12

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ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.



PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	13	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	214	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (TRAIL MOUNT)	535	LF
633-1-114	FIBER OPTIC CABLE, FST, OVERHEAD 97-144 FIBERS (BALL MOUNT)	586	LF
635-2-11	PULL & SPlice BOX, FST, 13"x 24" COVER SIZE	21	EA
715-1-11	LIGHTING CONDUCTORS, FST, INSULATED, NO. 10 OR <	2011	LF
715-1-12	LIGHTING CONDUCTORS, FST, INSULATED, NO. 8-6	680	LF
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	473	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	16	EA
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	1	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

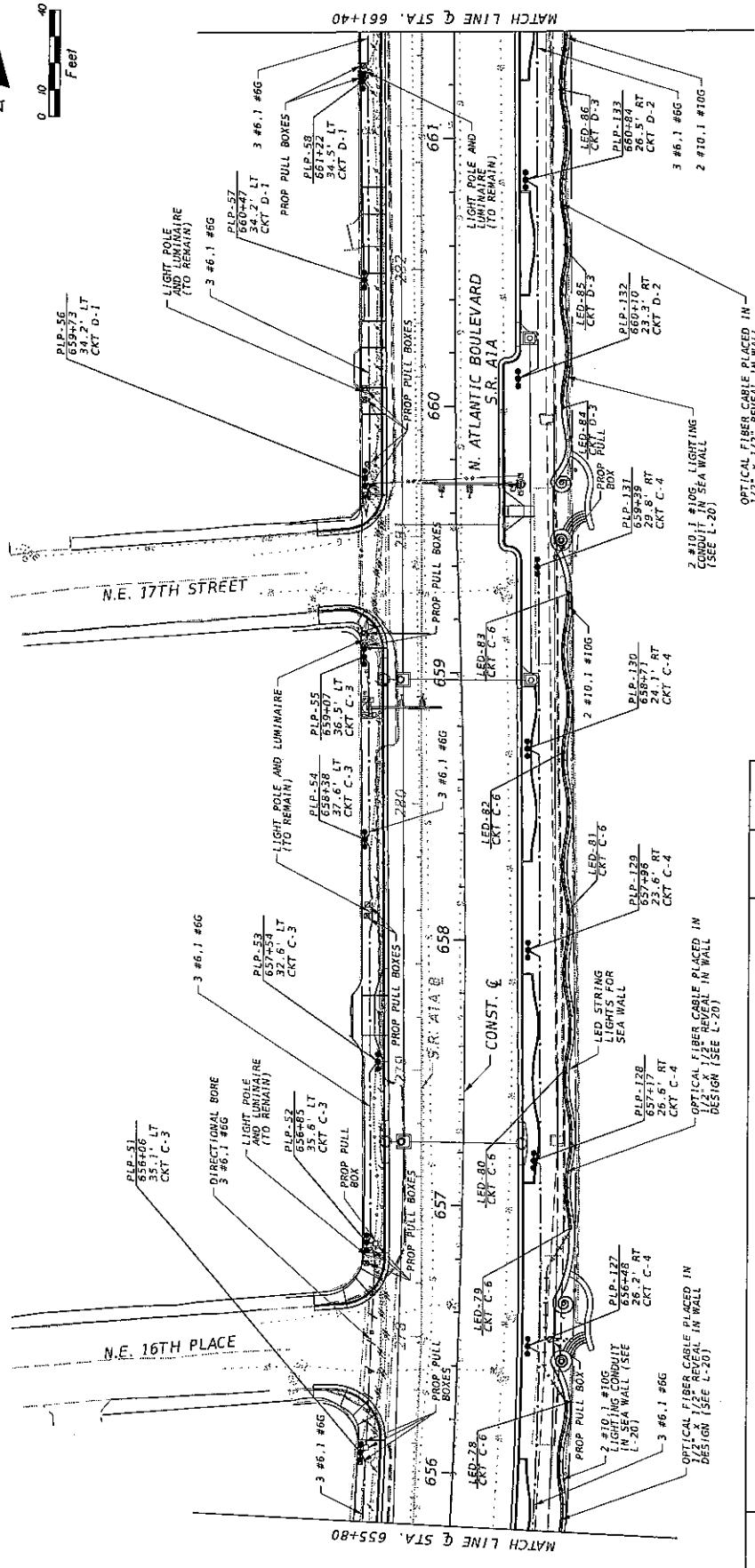
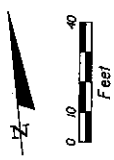
630-2-11 ITEM INCLUDES: 612 LF OF ADDITIONAL CONDUIT FOR LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.
 715-518 ITEM INCLUDES: 463 LF OF ADDITIONAL CONDUIT FOR LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
A1A	BROWARD	433688-4-52-01	

SHEET NO.	L-13
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ERDMAN ARCHITECT OF FLORIDA, INC.
 402 ROYAL PALM BEACH BLD., SUITE 900
 ROYAL PALM BEACH, FL 33411
 FAX 561-333-9723
 CERTIFICATE OF AUTHORIZATION 13912



ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

630-2-11 ITEM INCLUDES: 678 LF OF ADDITIONAL CONDUIT FOR 1/2" X 1/2" REVEAL IN WALL DESIGN (SEE L-20)

715-12 ITEM INCLUDES: 1050 LF OF ADDITIONAL CONDUIT FOR 1/2" X 1/2" REVEAL IN WALL DESIGN (SEE L-20)

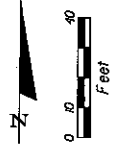
PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1706	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	86	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	531	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 97-144 FIBERS (WALL MOUNT)	289	LF
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	18	EA
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	1786	LF
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	5155	LF
715-1-80	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	1060	LF
715-518-315	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I (DOUBLE ARM, POLE TOP MOUNT, CONCRETE POLE)	15	EA
715-11-119	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	9	EA

DATE	DESCRIPTION	DATE	DESCRIPTION

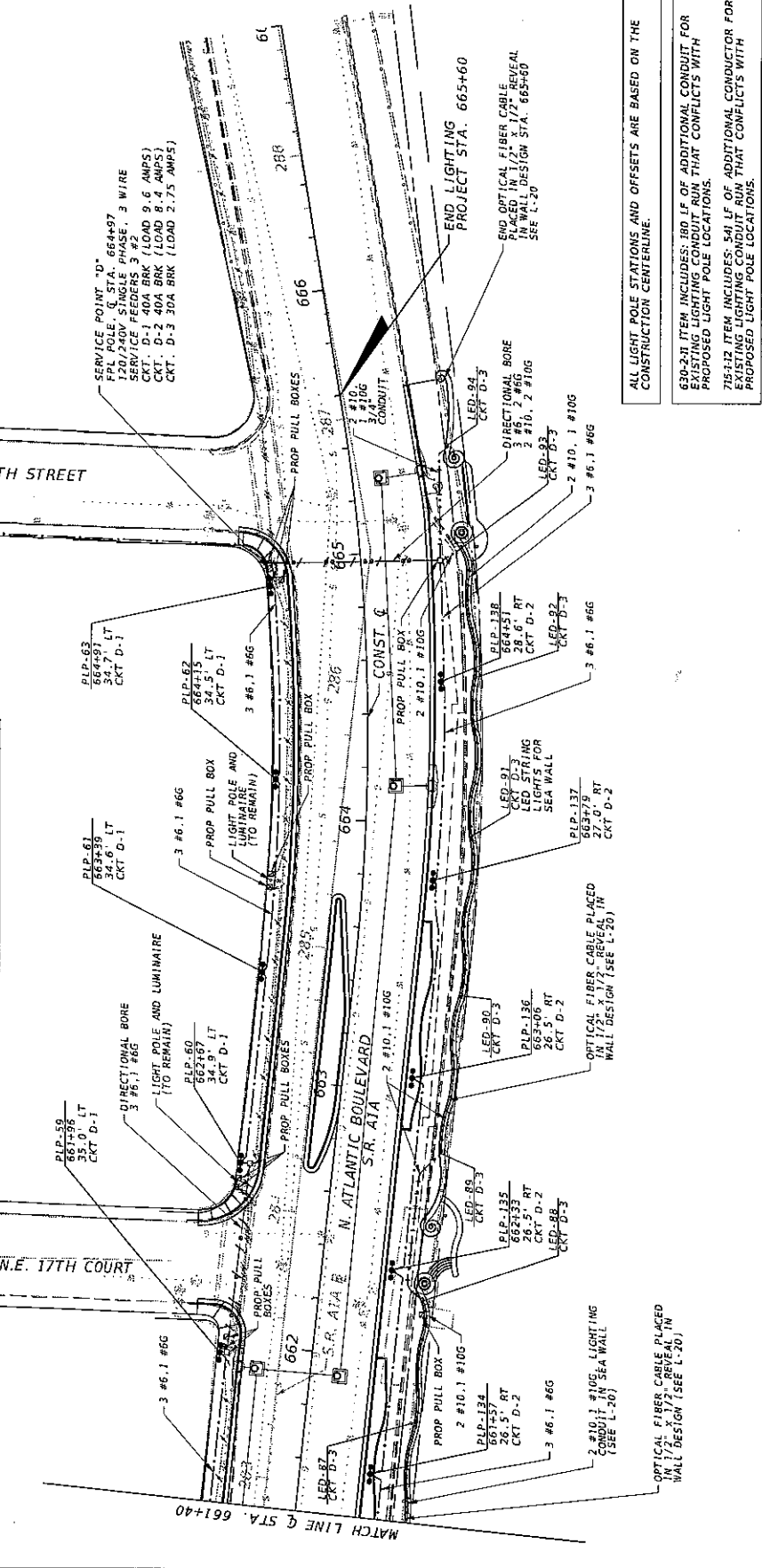
STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	A1A	COUNTY	BROWARD
FINANCIAL PROJECT ID	433688-4-52-01		

PROJECT NO.	111522013	DATE	10-26-20
SHEET NO.	L-14	PROJECT	

ERDMAN ANTHONY OF FLORIDA, INC.
 4805 N.W. 47TH AVENUE, SUITE 300
 ROYAL PALM BEACH, FL 33411
 PHONE 561-339-9723
 CERTIFICATE OF AUTHORIZATION 23912



PAY ITEM NO.	DESCRIPTION	TOTAL	UNIT
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	L-15	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	1112	LF
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVE GROUND (WALL MOUNT)	147	LF
633-1-114	FIBER OPTIC CABLE, F&I, OVERHEAD 92-144 FIBERS (WALL MOUNT)	384	LF
635-2-11	PULL & SPlice BOX, F&I, 13" x 74" COVER SIZE	444	LF
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	13	EA
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6	1422	LF
715-1-00	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR DRWS	4592	LF
715-1-00	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, (DOUBLE ARMS, POLE TOP MOUNT, CONCRETE POLE)	70	EA
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	1	EA
715-7-11	LUMINAIRE, F&I, ROADWAY, SPECIAL (LED SEA WALL)	B	EA



ALL LIGHT POLE STATIONS AND OFFSETS ARE BASED ON THE CONSTRUCTION CENTERLINE.

630-2-11 ITEM INCLUDES 100 LF OF ADDITIONAL CONDUIT FOR EXISTING LIGHTING CONDUIT RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

715-1-11 ITEM INCLUDES 341 LF OF ADDITIONAL CONDUCTOR FOR EXISTING LIGHTING CONDUCTOR RUN THAT CONFLICTS WITH PROPOSED LIGHT POLE LOCATIONS.

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
AIA	BROWARD	433688-4-52-01	

EDMAN ANTHONY OF FLORIDA, INC.
 MISAR M. KHAN, P.E., P.E. LICENSE NUMBER 6094
 1403 ROYAL PALM BEACH BLVD., SUITE 500
 PALM BEACH, FL 33481
 PHONE 561-253-9724
 FAX 561-253-9724
 CERTIFICATE OF AUTHORIZATION 2502

17187013 10-2009 AN W:60181-17-A1410100V433688-4-52-01 LIGHTING PLAN 11.06.09

LIGHTING PLAN

SHEET NO. L-15

UTILITY CONFLICT MATRIX - LIGHTING
 FPID - 433688-4-52-01
 SR-A1A (N. ATLANTIC BLVD) - FROM SR-838 TO N.E. 18TH STREET

LIGHT POLE	STATION	OFFSET	CONTROL	STORM DRAINAGE	SPARE CONDUITS	FLORIDA POWER & LIGHTBURNED ELECTRIC	UTILITY OWNER			TELEPHONE
							BROWARD COUNTY TRAFFIC SIGNAL DUCT	STREET LIGHTS CONDUITS	BROWARD COUNTY TRAFFIC SIGNAL DUCT	
PUP-01	619-15	34.1 LT	CONST. CL		2"	BE				
PUP-02	619-48	34.1 LT	CONST. CL		2", PB	BE				
PUP-03	620-65	34.1 LT	CONST. CL		2"	BE				
PUP-04	621-40	34.1 LT	CONST. CL		2"	BE				
PUP-05	622-15	34.1 LT	CONST. CL		2"	BE				
PUP-06	623-60	35.1 LT	CONST. CL		2"	BE				
PUP-07	623-82	35.1 LT	CONST. CL		2"	BE				
PUP-08	624-37	35.1 LT	CONST. CL		2"	BE				
PUP-09	625-11	34.1 LT	CONST. CL		2"	BE				
PUP-10	625-45	34.1 LT	CONST. CL		2"	BE				
PUP-11	626-60	34.7 LT	CONST. CL		2"	BE				
PUP-12	627-35	34.1 LT	CONST. CL		2"	BE				
PUP-13	628-10	34.7 LT	CONST. CL		2"	BE				
PUP-14	628-64	34.7 LT	CONST. CL		2"	BE				
PUP-15	629-58	34.1 LT	CONST. CL		2"	BE				
PUP-16	629-33	35.0 LT	CONST. CL		2"	BE				
PUP-17	631-68	35.1 LT	CONST. CL		2"	BE				
PUP-18	631-83	35.1 LT	CONST. CL		2"	BE				
PUP-19	632-58	35.0 LT	CONST. CL		2"	BE				
PUP-20	633-03	35.1 LT	CONST. CL		2"	BE				
PUP-21	634-08	34.9 LT	CONST. CL		2"	BE				
PUP-22	634-83	34.1 LT	CONST. CL		2"	BE				
PUP-23	635-58	34.1 LT	CONST. CL		2"	BE				
PUP-24	636-03	34.1 LT	CONST. CL		2"	BE				
PUP-25	637-03	34.1 LT	CONST. CL		2"	BE				
PUP-26	637-87	35.1 LT	CONST. CL		2"	BE				
PUP-27	638-45	32.7 LT	CONST. CL		2"	BE				
PUP-28	639-15	32.1 LT	CONST. CL		2"	BE				
PUP-29	639-65	32.1 LT	CONST. CL		2", PB	BE				
PUP-30	640-40	24.1 LT	CONST. CL		2"	BE				
PUP-31	641-10	27.9 LT	CONST. CL		2"	BE				
PUP-32	642-30	35.1 LT	CONST. CL		2"	BE				
PUP-33	643-01	35.0 LT	CONST. CL		2"	BE				
PUP-34	645-73	35.0 LT	CONST. CL		2", PB	BE				
PUP-35	644-45	35.1 LT	CONST. CL		2"	BE				
PUP-36	645-20	35.0 LT	CONST. CL		2"	BE				
PUP-37	645-91	35.0 LT	CONST. CL		2"	BE				
PUP-38	646-62	35.0 LT	CONST. CL		2"	BE				
PUP-39	647-32	35.0 LT	CONST. CL		2"	BE				
PUP-40	648-01	35.0 LT	CONST. CL		2"	BE				
PUP-41	648-73	35.1 LT	CONST. CL		2"	BE				
PUP-42	649-45	35.1 LT	CONST. CL		2"	BE				
PUP-43	649-20	35.0 LT	CONST. CL		2"	BE				
PUP-44	649-91	35.0 LT	CONST. CL		2"	BE				
PUP-45	649-62	35.0 LT	CONST. CL		2"	BE				
PUP-46	649-32	34.9 LT	CONST. CL		2"	BE				
PUP-47	648-65	35.0 LT	CONST. CL		2"	BE				

DATE	DESCRIPTION	REVISIONS

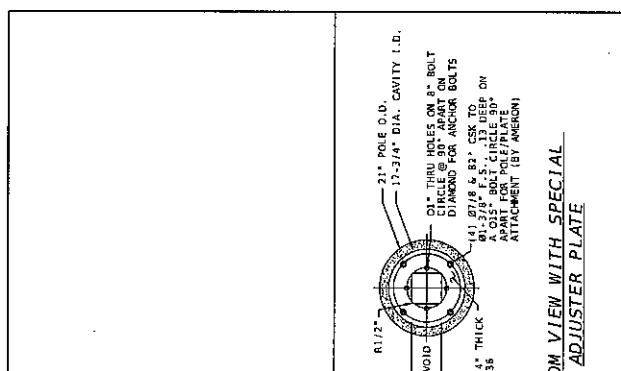
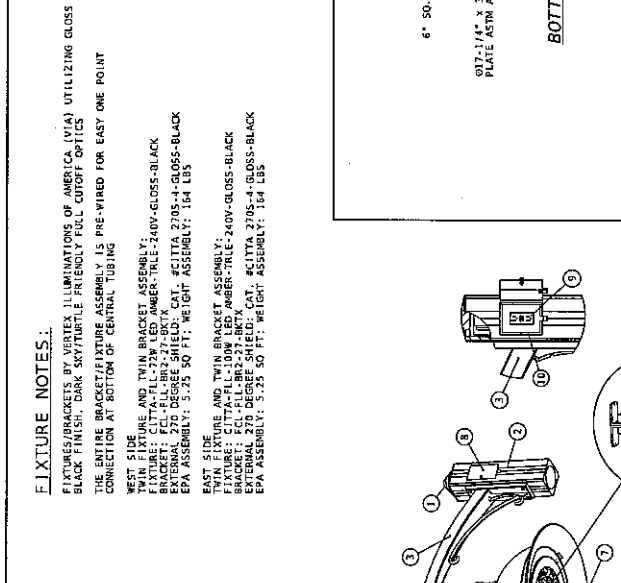
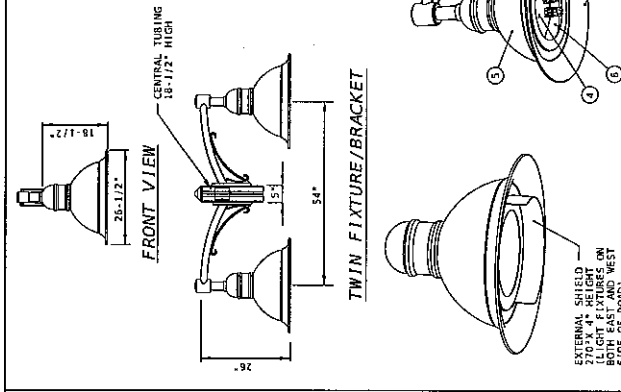
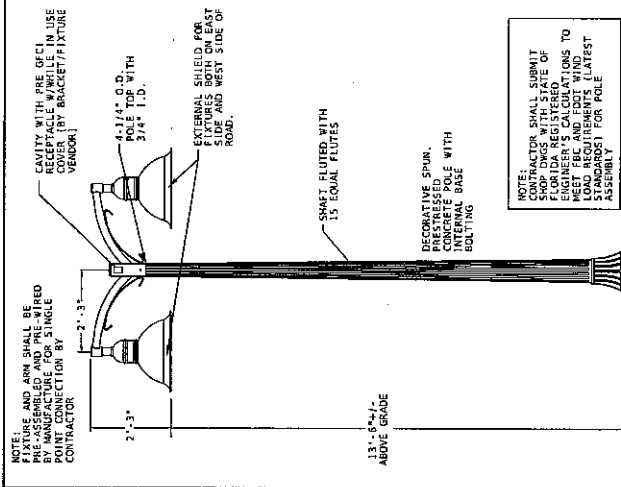
BRIGAN ANTHONY OF FLORIDA, INC.
 NISAN K. KHALIL P.E., P.E. LICENSE NUMBER 6004
 1402 ROYAL PALM BEACH BLVD., SUITE 500
 ROYAL PALM BEACH, FL 33411
 TEL: 561-333-9724
 FAX: 561-333-9724
 CERTIFICATE OF AUTHORIZATION 23842

UTILITY CONFLICT MATRIX - LIGHTING
 FPID - 433688-4-52-01
 SR-A1A (N. ATLANTIC BLVD) - FROM SR-838 TO N.E. 18TH STREET

LIGHT POLE	STATION	OFFSET	CONTROL	STORM DRAINAGE	SPARE CONDUITS	FLORIDA POWER & LIGHTBURNED ELECTRIC	UTILITY OWNER			TELEPHONE
							BROWARD COUNTY TRAFFIC SIGNAL DUCT	STREET LIGHTS CONDUITS	BROWARD COUNTY TRAFFIC SIGNAL DUCT	
PUP-42	648-38	35.0 LT	CONST. CL		2"	BE				
PUP-43	650-28	34.8 LT	CONST. CL		2"	BE				
PUP-44	651-00	35.0 LT	CONST. CL		2"	BE				
PUP-45	651-72	35.0 LT	CONST. CL		2"	BE				
PUP-46	652-14	34.7 LT	CONST. CL		2"	BE				
PUP-47	653-84	35.1 LT	CONST. CL		2"	BE				
PUP-48	654-54	35.3 LT	CONST. CL		2"	BE				
PUP-49	655-24	35.1 LT	CONST. CL		2"	BE				
PUP-50	656-08	35.1 LT	CONST. CL		2"	BE				
PUP-51	656-88	35.1 LT	CONST. CL		2", PB	BE				
PUP-52	657-54	32.8 LT	CONST. CL		2"	BE				
PUP-53	658-28	32.8 LT	CONST. CL		2"	BE				
PUP-54	659-03	37.8 LT	CONST. CL		2"	BE				
PUP-55	659-27	38.9 LT	CONST. CL		2"	BE				
PUP-56	659-73	34.2 LT	CONST. CL		2"	BE				
PUP-57	661-22	34.1 LT	CONST. CL		2"	BE				
PUP-58	661-98	35.0 LT	CONST. CL		2"	BE				
PUP-59	664-91	34.7 LT	CONST. CL		2"	BE				
PUP-60	612-78	48.8 RT	CONST. CL		2"	BE				
PUP-61	613-53	48.8 RT	CONST. CL		2"	BE				
PUP-62	615-74	45.7 RT	CONST. CL		2"	BE				
PUP-63	616-53	44.4 RT	CONST. CL		2"	BE				
PUP-64	617-31	41.8 RT	CONST. CL		2"	BE				
PUP-65	618-74	33.5 RT	CONST. CL		2"	BE				
PUP-66	619-53	26.9 RT	CONST. CL		2"	BE				
PUP-67	621-03	32.8 RT	CONST. CL		2"	BE				
PUP-68	621-78	32.5 RT	CONST. CL		2"	BE				
PUP-69	622-59	32.5 RT	CONST. CL		2"	BE				
PUP-70	628-47	34.0 RT	CONST. CL		2"	BE				
PUP-71	629-21	32.5 RT	CONST. CL		2"	BE				
PUP-72	632-95	32.5 RT	CONST. CL		2"	BE				
PUP-73	633-70	32.5 RT	CONST. CL		2"	BE				
PUP-74	634-45	32.5 RT	CONST. CL		2"	BE				
PUP-75	635-20	35.5 RT	CONST. CL		2"	BE				
PUP-76	635-94	34.7 RT	CONST. CL		2"	BE				
PUP-77	639-39	26.8 RT	CONST. CL	PIPE	2"	BE				

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	BROWARD	433688-4-52-01

UTILITY CONFLICT MATRIX



FIXTURE NOTES:
 FIXTURES/BRACKETS BY VERTEX ILLUMINATIONS OF AMERICA (VIA) UTILIZING GLOSS BLACK FINISH, DARK SKY/TURTLE FRIENDLY FULL CUTOFF OPTICS
 THE ENTIRE BRACKET/FIXTURE ASSEMBLY IS PRE-WIRED FOR EASY ONE POINT CONNECTION AT BOTTOM OF CENTRAL TUBING
WEST SIDE
 TWIN FIXTURE AND TWIN BRACKET ASSEMBLY:
 BRACKET: CUL-FILL-BR-27-31-87X
 EXTERNAL 370 DEGREE SHIELD: CAT. #CITTA 2708-4-GLOSS-BLACK
 EPA ASSEMBLY: 5.25 50 FT; WEIGHT ASSEMBLY: 164 LBS
EAST SIDE
 TWIN FIXTURE AND TWIN BRACKET ASSEMBLY:
 BRACKET: CUL-FILL-BR-27-31-87X
 EXTERNAL 370 DEGREE SHIELD: CAT. #CITTA 2708-4-GLOSS-BLACK
 EPA ASSEMBLY: 5.25 50 FT; WEIGHT ASSEMBLY: 164 LBS

LEGEND:
 1 CENTRAL TUBING TOP COVER CAST ALUMINUM WITH (2) 1/4" - 20 SS SET SCREWS
 2 CAST ALUMINUM SQUARE CENTRAL TUBING TO FIT POLE FOR TERNUM 4" DIA. X 8". (4) 3/8"-16 SS SET SCREWS (1) 1/2"-13 X 5" SS MACHINE SCREW THREADED TO CENTRAL TUBING FOR TORXION PROVIDED BY VERTEX ILLUMINATION OF AMERICA
 3 CAST ALUMINUM ARM WITH DECORATIVE SCROLL BOLTED TO CAST CENTRAL TUBING & 1-1/4" SS NIPPLE THREADED INTO ARM AND SECURED WITH LOCKWIT INSIDE FIXTURE HOUSING
 4 LED DRIVERS MOUNT INSIDE ELECTRICAL COMPARTMENT INDEPENDENT FROM LED LIGHT ENGINE CAN BE REPLACED OR UPGRADED; VOLTAGE 120-277 V
 5 FORMED ALUMINUM HOUSING-HOUSES TWO TIER LED ARRAYS, DISTRIBUTION WITH NO LIGHT DIRECTED TOWARDS THE HOUSE SIDE - LED ARRAY, LUMI-LEDS REBEL, AMBER COLOR
 6 TEMPERED FLAT FROSTED GLASS LENS
 7 CAST ALUMINUM LOWER FRAME
 8 CAST ALUMINUM IN-USE DOOR FOR GFCI WITH FULL NYLON HINGE AND HEX HEAD NYLON SCREW AND RUBBER GASKET
 9 DUPLEX GFCI RECEPTACLE-125VA-15A
 10 JUNCTION BOX FOR GFCI

BASE / FOUNDATION DETAIL
 N.T.S.

LEGEND:
 1 21" POLE O.D.
 2 17-3/4" DIA. CAVITY I.D.
 3 6" 50. VOID
 4 61-3/16" X 8-3/4" X 13" USE UP ON A-035" BOLT, CIRCLE 90° ANGLE ATTACHMENT (BY AMERSON)
 5 61-3/16" X 8-3/4" X 13" USE UP ON A-035" BOLT, CIRCLE 90° ANGLE ATTACHMENT (BY AMERSON)
 6 6" 50. VOID
 7 7" DIA.
 8 6-3/4" X 8-1/2" X 5-3/4" HANDHOLE OPENING SPECIAL STAINLESS STEEL ADJUSTER PLATE TO BE ATTACHED PRIOR TO AMERSON SHIPMENT
 9 15-1/8"
 10 24"
 11 15" DIA.
 12 9-5/16" DIA.
 13 1" NOM.
 14 6" A.B. PROJ.
 15 (4) 7/8" X 3/4" ALL THREADED ROD, STAINLESS STEEL 316 CAP WASHERS (5) HEX NUTS, (3) WASHERS
 16 FINISH GRADE FOUNDATION HEIGHT
 17 ELECTRICAL CONDUIT AS SHOWN ON LIGHTING PLANS ALL CONDUITS TO FIT FULLY WITH 1/2" CLEARANCE IN THE CENTER OF BASE AND EXTEND 8" ABOVE BASE
 18 VERTICAL AND HORIZONTAL #5 REINFORCING STEEL PER BRIDGE CODE DESIGN REQUIRED (INSTALLED BY CONTRACTOR)

LIGHT POLE DETAIL
 N.T.S.

DATE	DESCRIPTION	REVISIONS

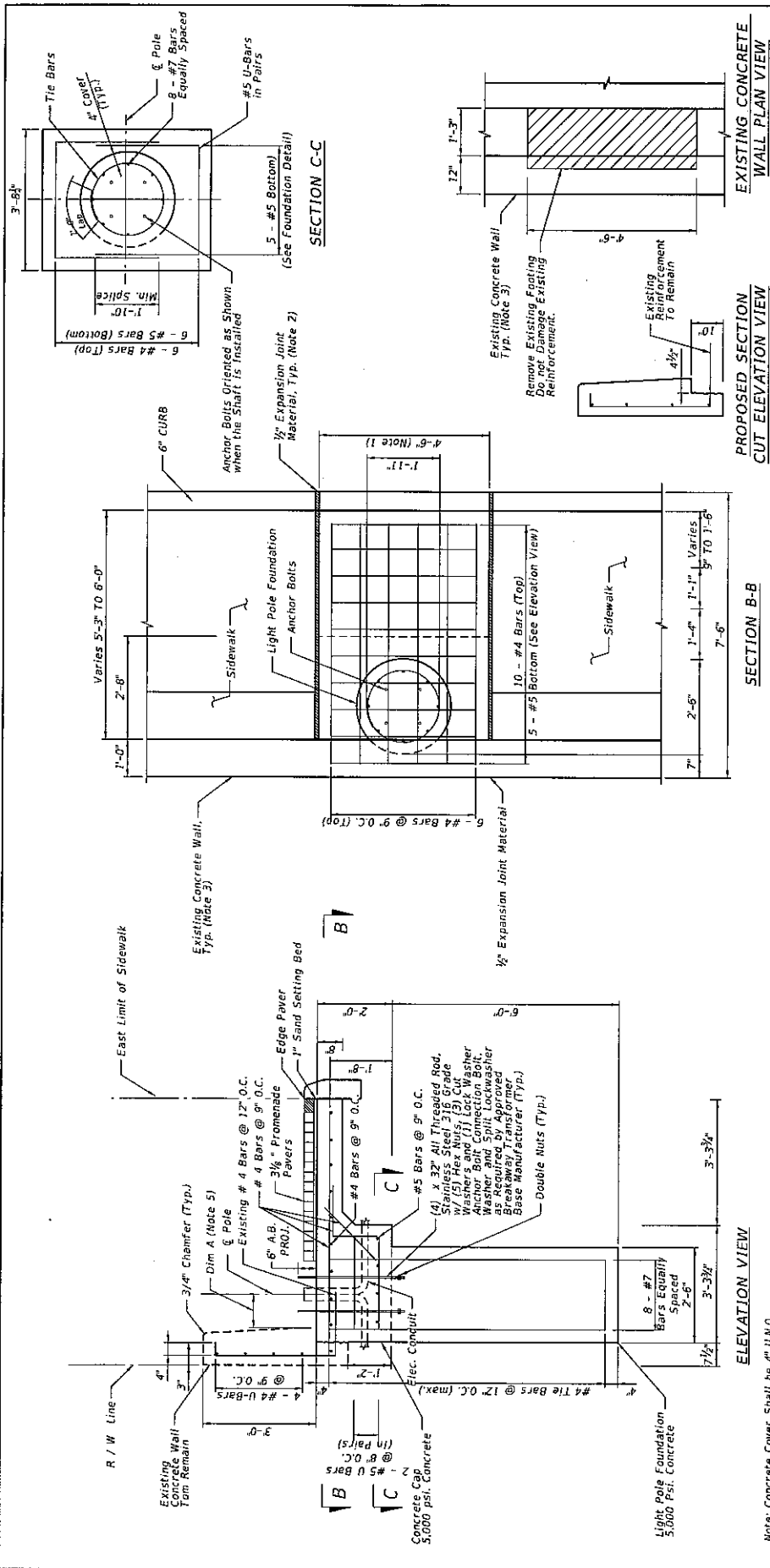
ROAD NO.	A1A	COUNTY	BROWARD
FINANCIAL PROJECT ID	433688-4-52-01		

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

FORMA ILLUMINATION OF FLORIDA, INC.
 1402 ROYAL PALM BEACH BLVD., SUITE 500
 ROYAL PALM BEACH, FL 33411
 PHONE: 561-853-8233
 FAX: 561-853-8224
 CERTIFICATE OF AUTHORIZATION 12982

SHEET NO.	L-17
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FOUNDATION NOTES:

The foundation for Concrete Spun Light Poles are, pre-designed and are based upon the following conditions: ϕ = 0.75 and ϕ = 0.90 for majorities of soil types found in Florida:

Classification = Cohesiveness (Type Sand)

Friction Angle = 30 Degrees (30°)

Unit Weight = 50 lbs./cu. ft. (assumed saturated)

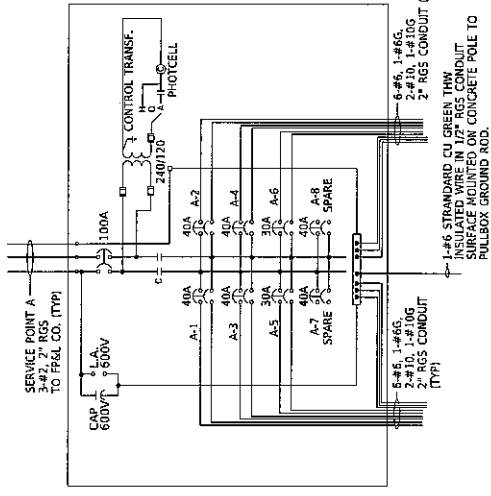
Designs consider the soil types at the specific site location to be of lesser strength than those used in the design. Designers consider the soil types at the specific site location to be of lesser strength than those used in the design. Designers consider the soil types at the specific site location to be of lesser strength than those used in the design. Designers consider the soil types at the specific site location to be of lesser strength than those used in the design.

NOTES:

- Remove by excavating 4'-7" of the existing concrete wall, including the footing, and construct the Light Pole Foundation concrete footing.
- The expansion joint material should be provided also for the concrete wall between the new and existing walls.
- The new concrete shall be placed in 12" lifts with non-sink grad.
- Foundation Materials:
 - Reinforcing Steel: ASTM A615 Grade 60.
 - Concrete: Class ASTM F1554 Grade 55 with ASTM F436 Type 1 washers in accordance with ASTM F2329.
 - Steel: (all galvanized in accordance with ASTM F2329).
- Dimension A should be 1'-6" at most light pole locations, and should be 10' $\frac{3}{4}$ " at the following locations: PLP-01 (Sta. 619+15), PLP-02 (Sta. 619+88), PLP-3 (Sta. 620+65), PLP-4 (Sta. 621+40).

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

EAC Consulting, Inc.		STATE OF FLORIDA	
815 N.W. 57th Avenue, Suite 402		DEPARTMENT OF TRANSPORTATION	
MIAMI, FL 33126		ROAD NO.	COUNTY
305-285-2557		A1A	BROWARD
K.T. LIN, P.E.		FINANCIAL PROJECT ID	433688-432-01
P.O. BOX 64			
MIAMI, FL 33101			
WWW.EACCONSULTING.COM			



TYPICAL LOADCENTER DETAIL (A, B, C & D)

NOTE: REFER TO FOOT STANDARD INDEX NO. 17504

LOADCENTER "A" DATA

DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "A"	37.2	8.9
SERVICE CALCULATION (37.2A X 1.25) = 46.5 A		

LOADCENTER "B" DATA

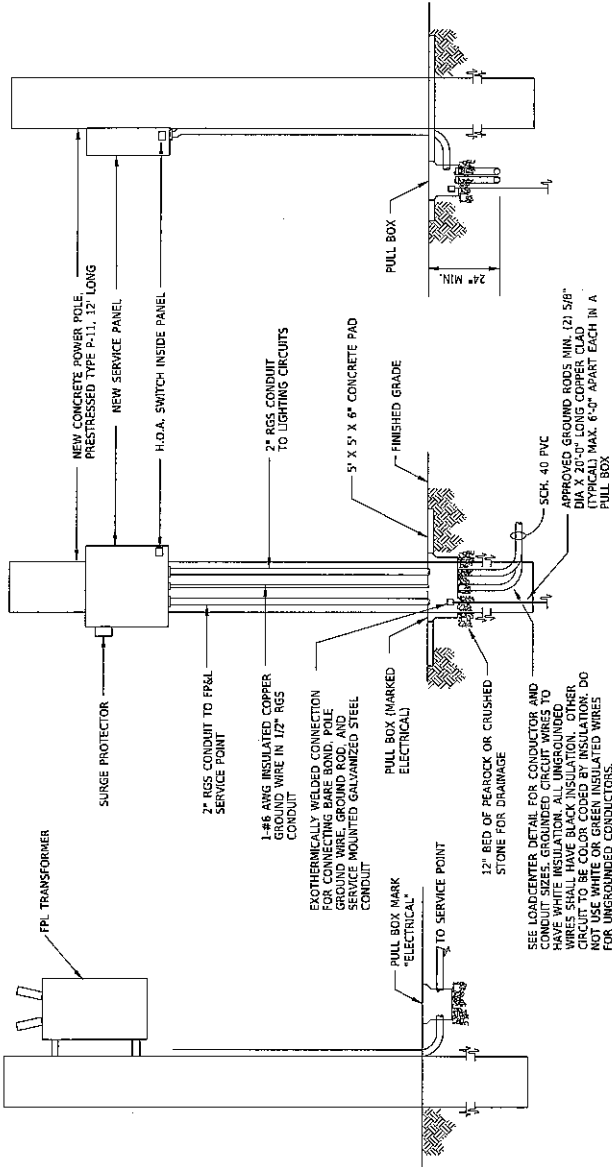
DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "B"	66.3	15.9
SERVICE CALCULATION (66.3A X 1.25) = 82.9 A		

LOADCENTER "C" DATA

DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "C"	64.6	15.5
SERVICE CALCULATION (64.6A X 1.25) = 80.8 A		

LOADCENTER "D" DATA

DESCRIPTION	TOTAL AMPS	TOTAL KVA
SERVICE POINT "D"	20.8	5.0
SERVICE CALCULATION (20.8A X 1.25) = 26 A		



NEW SERVICE POINT DETAIL

NOT TO SCALE
120240V SINGLE PHASE, 3 WIRE (SERVICE POINT A, B, C & D)

SPECIFICATIONS

1. NEW PANELBOARD ENCLOSURE, NEMA 4X STAINLESS STEEL, POLE MOUNTED.
 2. THE ENCLOSURE SHALL BE HEAVY DUTY STAINLESS STEEL, RAIN TIGHT, INSULATED TO 600VAC, AND MEET UL 508.
 3. THE ENCLOSURE SHALL BE LOCKABLE AND FOUR (4) KEYS PROVIDED TO THE MAINTENANCE AGENCIES. THE DOOR SHALL HAVE A CONTINUOUS HINGE AND DRAW DOWN LATCHES.
 4. ALL ENCLOSURE HARDWARE SHALL BE STAINLESS STEEL.
 5. NEW CIRCUIT BREAKERS SHALL BE USED.
 6. ALL COMPONENTS TO BE INTERCHANGEABLE WITH MAJOR MANUFACTURERS; WESTINGHOUSE, SQUARE-D, G.E., ETC. WITHOUT PANEL ALTERATIONS.
 7. ALL BUSES TO BE COPPER 100A RATED MINIMUM.
 8. ENCLOSED COPPER GROUND BUS TO BE INCLUDED, RATED 200A MINIMUM.
 9. A 600 VAC SURGE PROTECTOR SHALL BE WIRED INSIDE THE ENCLOSURE.
10. ENCLOSURE TO BE SIZED TO ACCOMMODATE THE NUMBER OF CIRCUIT BREAKERS AS INDICATED ON THE LOADCENTER DETAIL AND AS PER DOT STANDARDS.
 11. ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLEFACE OPPOSITE ON COMING TRAFFIC.
 12. PANELBOARD SHALL BE SERVICE ENTRANCE RATED.
 13. MOUNTING HEIGHT OF SERVICE DISCONNECT SHALL BE AS PER F.D.O.T. INDEX 17504.
 14. PANELBOARD SHALL HAVE 25-000 AIC RATING.
 15. ALL POLE INSTALLATIONS SHALL MEET FLORIDA BUILDING CODE WIND LOADING. THE CONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL A WIND LOADING CALCULATION SEALED BY A STRUCTURAL ENGINEER REGISTERED IN FLORIDA SHOWING THAT THE PROPOSED INSTALLATION WILL MEET THE WIND LOADING REQUIREMENT.

DATE	DESCRIPTION	REVISIONS

FLORIDA DIVISION OF HIGHWAYS AND TRANSPORTATION
 902 ROYAL PALM BEACH BLVD., SUITE 500
 WEST PALM BEACH, FL 33411
 TEL: 561/833-3723
 FAX: 561/833-3724
 CERTIFICATE OF AUTHORIZATION 23912

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 A/A BROWARD 433668-4-52-01

SHEET NO. 1-19

LED ILLUMINATOR TABLE

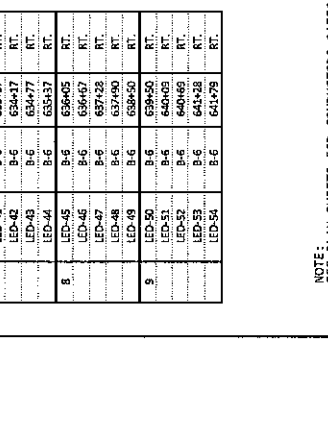
WALL NO.	LED NAME	CIRCUIT	STATION	STATION OFFSET SIDE
1	LED-01	A-4	629465	RT.
	LED-02	A-4	630405	RT.
	LED-03	A-4	630455	RT.
	LED-04	A-4	631425	RT.
	LED-05	A-4	631495	RT.
	LED-06	A-4	632450	RT.
	LED-07	A-4	632520	RT.
	LED-08	A-4	633461	RT.
2	LED-09	A-4	634431	RT.
	LED-10	A-4	634491	RT.
	LED-11	A-4	635451	RT.
	LED-12	A-4	636411	RT.
	LED-13	A-4	636469	RT.
3	LED-14	A-4	637424	RT.
	LED-15	A-4	637484	RT.
	LED-16	A-5	638444	RT.
	LED-17	A-5	639404	RT.
	LED-18	A-5	639463	RT.
4	LED-19	A-5	639420	RT.
	LED-20	A-5	639480	RT.
	LED-21	A-5	639440	RT.
	LED-22	A-5	639400	RT.
	LED-23	A-5	639360	RT.
5	LED-24	B-5	639441	RT.
	LED-25	B-5	639481	RT.
	LED-26	B-5	639451	RT.
	LED-27	B-5	639410	RT.
	LED-28	B-5	639369	RT.
	LED-29	B-5	639329	RT.
6	LED-30	B-5	637400	RT.
	LED-31	B-5	637460	RT.
	LED-32	B-5	638419	RT.
	LED-33	B-5	638480	RT.
	LED-34	B-5	639441	RT.
	LED-35	B-5	639401	RT.
	LED-36	B-5	639361	RT.
	LED-37	B-5	639321	RT.
	LED-38	B-6	638441	RT.
	LED-39	B-6	638401	RT.
	LED-40	B-6	638361	RT.
	LED-41	B-6	638321	RT.
	LED-42	B-6	638281	RT.
	LED-43	B-6	638241	RT.
	LED-44	B-6	638201	RT.
	LED-45	B-6	638161	RT.
	LED-46	B-6	638121	RT.
	LED-47	B-6	638081	RT.
	LED-48	B-6	638041	RT.
	LED-49	B-6	638001	RT.
7	LED-50	B-6	638450	RT.
	LED-51	B-6	640410	RT.
	LED-52	B-6	640470	RT.
	LED-53	B-6	641430	RT.
	LED-54	B-6	641490	RT.

LED ILLUMINATOR TABLE (CONT'D)

WALL NO.	LED NAME	CIRCUIT	STATION	STATION OFFSET SIDE
10	LED-55	C-5	642431	RT.
	LED-56	C-5	642491	RT.
	LED-57	C-5	643450	RT.
	LED-58	C-5	644410	RT.
	LED-59	C-5	644469	RT.
11	LED-60	C-5	645430	RT.
	LED-61	C-5	645490	RT.
	LED-62	C-5	646449	RT.
	LED-63	C-5	647409	RT.
	LED-64	C-5	647468	RT.
	LED-65	C-5	648428	RT.
	LED-66	C-5	648488	RT.
	LED-67	C-5	649447	RT.
	LED-68	C-5	650407	RT.
12	LED-69	C-5	650466	RT.
	LED-70	C-6	651426	RT.
	LED-71	C-6	652486	RT.
	LED-72	C-6	652445	RT.
	LED-73	C-6	653405	RT.
	LED-74	C-6	653465	RT.
	LED-75	C-6	654424	RT.
	LED-76	C-6	654484	RT.
	LED-77	C-6	654443	RT.
	LED-78	C-6	654403	RT.
	LED-79	C-6	654362	RT.
	LED-80	C-6	654322	RT.
	LED-81	C-6	654281	RT.
	LED-82	C-6	654241	RT.
	LED-83	C-6	654200	RT.
	LED-84	C-6	654160	RT.
	LED-85	D-3	654120	RT.
	LED-86	D-3	654080	RT.
	LED-87	D-3	654040	RT.
	LED-88	D-3	654000	RT.
	LED-89	D-3	653960	RT.
	LED-90	D-3	653920	RT.
	LED-91	D-3	653880	RT.
	LED-92	D-3	653840	RT.
	LED-93	D-3	653800	RT.
	LED-94	D-3	653760	RT.

LED ILLUMINATOR TABLE (CONT'D)

WALL NO.	LED NAME	CIRCUIT	STATION	STATION OFFSET SIDE
13	LED-95	D-3	653720	RT.
	LED-96	D-3	653680	RT.
	LED-97	D-3	653640	RT.
	LED-98	D-3	653600	RT.
	LED-99	D-3	653560	RT.
14	LED-100	D-3	653520	RT.
	LED-101	D-3	653480	RT.
	LED-102	D-3	653440	RT.
	LED-103	D-3	653400	RT.
	LED-104	D-3	653360	RT.
	LED-105	D-3	653320	RT.
	LED-106	D-3	653280	RT.
	LED-107	D-3	653240	RT.
	LED-108	D-3	653200	RT.
	LED-109	D-3	653160	RT.
	LED-110	D-3	653120	RT.
	LED-111	D-3	653080	RT.
	LED-112	D-3	653040	RT.
	LED-113	D-3	653000	RT.
	LED-114	D-3	652960	RT.
	LED-115	D-3	652920	RT.
	LED-116	D-3	652880	RT.
	LED-117	D-3	652840	RT.
	LED-118	D-3	652800	RT.
	LED-119	D-3	652760	RT.
	LED-120	D-3	652720	RT.
	LED-121	D-3	652680	RT.
	LED-122	D-3	652640	RT.
	LED-123	D-3	652600	RT.
	LED-124	D-3	652560	RT.
	LED-125	D-3	652520	RT.
	LED-126	D-3	652480	RT.
	LED-127	D-3	652440	RT.
	LED-128	D-3	652400	RT.
	LED-129	D-3	652360	RT.
	LED-130	D-3	652320	RT.
	LED-131	D-3	652280	RT.
	LED-132	D-3	652240	RT.
	LED-133	D-3	652200	RT.
	LED-134	D-3	652160	RT.
	LED-135	D-3	652120	RT.
	LED-136	D-3	652080	RT.
	LED-137	D-3	652040	RT.
	LED-138	D-3	652000	RT.
	LED-139	D-3	651960	RT.
	LED-140	D-3	651920	RT.
	LED-141	D-3	651880	RT.
	LED-142	D-3	651840	RT.
	LED-143	D-3	651800	RT.
	LED-144	D-3	651760	RT.
	LED-145	D-3	651720	RT.
	LED-146	D-3	651680	RT.
	LED-147	D-3	651640	RT.
	LED-148	D-3	651600	RT.
	LED-149	D-3	651560	RT.
	LED-150	D-3	651520	RT.
	LED-151	D-3	651480	RT.
	LED-152	D-3	651440	RT.
	LED-153	D-3	651400	RT.
	LED-154	D-3	651360	RT.



CUSTOM PRE-ASSEMBLED ENCLOSURE BY FLORIDA ARCHITECTURAL LIGHT OR APPROVED EQUAL TO INCLUDE:
 CARLON 12"x12" x 6" RIGID NON-METALLIC CONDUIT BOX WITH WATERPROOF FITTINGS
 WATER PROOF JUNCTION BOX, RECEPTACLE AND COVER

INSTALL FIBERSTARS BRIGHTPAK (BPAK) 100 WITH SILICONE ADHESIVE PLACED IN 1/2" x 1/2" REVEAL IN WALL DESIGN
 CARLON 12" x 12" x 6" RIGID NON-METALLIC CONDUIT BOX, OR APPROVED EQUAL
 18" x 18" x 1/4" SEAFOAM KING SHARBOARD SHEET - MARINE HOPE ON APPROVED EQUAL
 STAINLESS STEEL TAMPER PROOF SCREWS (TYP.)
 BEACH
 WATERPROOF JUNCTION BOX - RED DOT 1H3-1 OR EQUAL, RECEPTACLE 240V/1PH, 3W, PLASTIC IN-USE APPROVED EQUAL
 3/4" CONDUIT TO NEXT ILLUMINATOR UNIT OR SERVICE POINT
 EACH LED LIGHT SHALL ILLUMINATE TWO OPTICAL FIBER CABLES ONE TO THE LEFT AND ONE TO THE RIGHT. CABLE SHALL HAVE MAXIMUM LENGTH OF 311' FROM THE INSIDE OF WALL IN 1/2" x 1/2" REVEAL IN WALL DESIGN, PLUS AN ADDITIONAL 3' TO LED LAMP
 PROPOSED SEA WALL (INSIDE BLOCKS SHOWN)
 DICON #E1311 SERIES PROGRAMMABLE OUTDOOR FANLESS RGB FIBERLAMP LED ILLUMINATOR OR APPROVED EQUAL (TYP.)
 USE 240 STYLE CORD AND CONNECTOR PROVIDED BY THE MANUFACTURE

LED ILLUMINATOR MOUNTING DETAIL
 N.T.S.

EDMAN AUTHORITY OF FLORIDA, INC. NUMBER 6884
 102 ROYAL PALM BEACH BLVD., SUITE 500
 ROYAL PALM BEACH, FL 33411
 PHONE 561-833-9733
 CERTIFICATE OF AUTHORIZATION 23912

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 A1A BROWARD 433668-4-52-01

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REVISIONS DATE DESCRIPTION

DATE DESCRIPTION

NOTE: SEE PLAN SHEETS FOR CONDUCTORS SIZES.

SEA WALL LED STRIP LIGHTING DETAILS

SHEET NO. L-20

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID. 433688-4-52-01

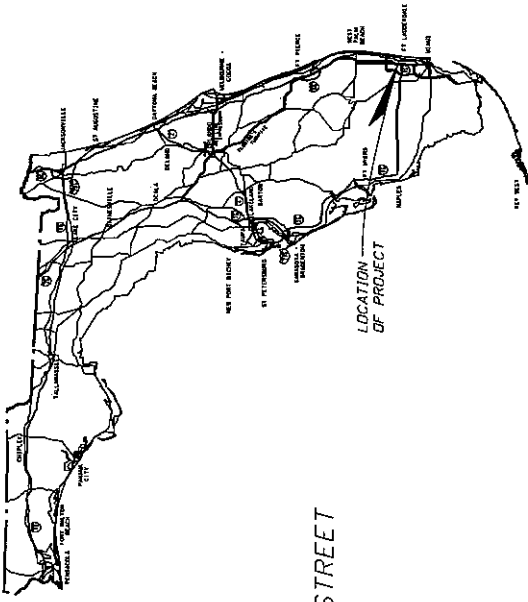
BROWARD COUNTY (86005)

STATE ROAD A1A FROM SUNRISE BLVD. TO NE 18 STREET

STRUCTURE PLANS

INDEX OF STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
8W-1	KEY SHEET
8W-2	GENERAL NOTES
8W-3	TYPICAL WALL DETAILS (1 OF 2)
8W-4	TYPICAL WALL DETAILS (2 OF 2)
8W-5	TYPE A & B ENTRANCE DETAILS
8W-6	TYPE C & D ENTRANCE DETAILS
8W-7	TYPE E ENTRANCE DETAILS
8W-8	SHELL WRAP DETAILS
8W-9	COLUMN DETAILS
8W-10	STRUCTURAL DETAILS (1 OF 2)
8W-11	STRUCTURAL DETAILS (2 OF 2)
8W-12	WALL PLANS (1 OF 5)
8W-13	WALL PLANS (2 OF 5)
8W-14	WALL PLANS (3 OF 5)
8W-15	WALL PLANS (4 OF 5)
8W-16	WALL PLANS (5 OF 5)
8W-17	WALL ELEVATION TABLE
8W-18	AS-BUILT SHEET PILE PROFILE (1 OF 3)
8W-19	AS-BUILT SHEET PILE PROFILE (2 OF 3)
8W-20	AS-BUILT SHEET PILE PROFILE (3 OF 3)
8W-21	REINFORCING BAR LIST (1 OF 2)
8W-22	REINFORCING BAR LIST (2 OF 2)



STRUCTURE SHOP DRAWINGS
TO BE SUBMITTED TO:
STRUCTURES DESIGN OFFICE
FOOT DISTRICT IV
ATTN: FRED OCHDA, P.E.
3400 WEST COMMERCIAL BLVD.
FORT LAUDERDALE, FL 33309

PLANS PREPARED BY:
CAC CONSULTING, INC.
815 NW 57 AVENUE, SUITE 402
MIAMI, FL 33126

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

KEY SHEET REVISIONS	
DATE	DESCRIPTION

STRUCTURE PLANS
ENGINEER OF RECORD: K.T. JIN, P.E.

P.E. NO.: 41081

FOOT PROJECT MANAGER : SCOTT PETERSON, P.E.

FISCAL YEAR	SHEET NO.
14	8W-1

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STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS:
 FDOT Structures Manual (January 2013) and subsequent Structures Temporary Design Bulletins, Florida Building Code 2010

CONSTRUCTION SPECIFICATIONS:
 FDOT Standards Specifications for Road and Bridge Construction 2014

CONTRACTOR NOTES:
 Contractor to verify all dimensions prior to construction. Any discrepancies shall be reported to the engineer before proceeding.

Contractor shall submit shop drawings. Approval of shop drawings by the Engineer is for design and layout only, and is not for the purpose of authorizing changes to the contract.

ENVIRONMENT:
 Extremely Aggressive.

REINFORCING STEEL:
 All reinforcing steel bars shall be ASTM A615, Grade 60. Shop drawings required.
 All welded steel wire fabric shall be in accordance with section 933-1.2

BOLTS:
 All bolts shall be stainless steel ASTM A325.

FILL:
 A special inspector, retained by the owner, shall inspect and supervise the compaction of fill under slabs on grade. The fills shall be compacted to a minimum by 95% relative density made in accordance with ASTM 318.

UTILITIES:
 All utilities shown in the plans are at approximate locations. The contractor shall verify all the utility locations prior to starting any work.

JOINTS IN CONCRETE:
 Joints will be permitted only at locations indicated on the plans. Additional construction joints or alterations to those shown shall require approval of the engineer.

SOIL STATEMENT:
 As per the geotechnical report by Ferracon Consultants, Inc., dated September 27, 2013, the allowable soil bearing pressure is 2,500 PSF. Contractor shall follow the geotechnical recommendation of this report.

GENERAL:
 All details and sections shown on the drawings are subject to change. Similar work shall be constructed to apply to any similar situations at other locations than that specifically indicated.

FINISH PAINTING:
 Colors to match existing white semi-gloss color of the existing wave wall south of the project.
 Warranty: Manufacturer and contractor shall provide a (1) year warranty. The contractor shall provide a minimum of (3) years industrial coatings job experience documented and provide (2) job references in similar industrial coatings jobs.

VERTICAL DATUM
 All elevations are according to North American vertical Datum of 1988 (NAVD 88)

DESIGN LOADING:
 Vehicle: 25 k GVW
 Live Load: 60 PSF
 Wave Load: 45 PSF with a 50 year return period based on design return period in Division of Intra Incorporated. Applies to the concrete wall attached to the sheet pile. (Sta. 639+49.49 Thru 663+48.48)
 Wind Load:
 ASCE 7-10
 Exposure C
 Occupancy Category II

CONCRETE:
 All concrete shall be in accordance with Section 346

Concrete Class Min. 28-Day Location of
 Strength (ksi) Concrete

IV 5,500 Slabs, Columns, Footing, Stairs

CONCRETE COVER:	
Bottom	Top
4 in	3 in
3 in	3 in
3 in	3 in
3 in	3 in
3 in	3 in
3 in	3 in

CONCRETE MASONRY:
 Construction to be in accordance with "Building Code Requirements for masonry Structures" ACI 530-02, ACI 530.1, and all applicable local building code provisions. All 1500 masonry units shall have an average prism strength of 1500 P.S.I., and all masonry shall be reinforced with 9 gage Ladder cross type horizontal masonry reinforcing located at 16" O.C.

All masonry to be laid in Type "M" Mortar (2500 psi on the job) except for the exterior walls. The mortar shall be used for the interior face-bearing partition with full head and bed joints. All masonry construction to be either bound by tie beam, tie column members and tied to frame by extending horizontal reinforcing bars, or masonry shall be tied to frame by using a horizontal dowel bar. Horizontal dowel bars shall be placed prior to masonry, unless noted otherwise in drawings.

Grout for grouting cells shall have a minimum compressive strength of 3,000 PSI or the block strength whichever is greater and shall be in accordance with ASTM C476-01. Grout to have a slump between 8 to 11".

A special inspector, retained by the owner, shall inspect and supervise the construction of reinforced masonry per ACI 530.1

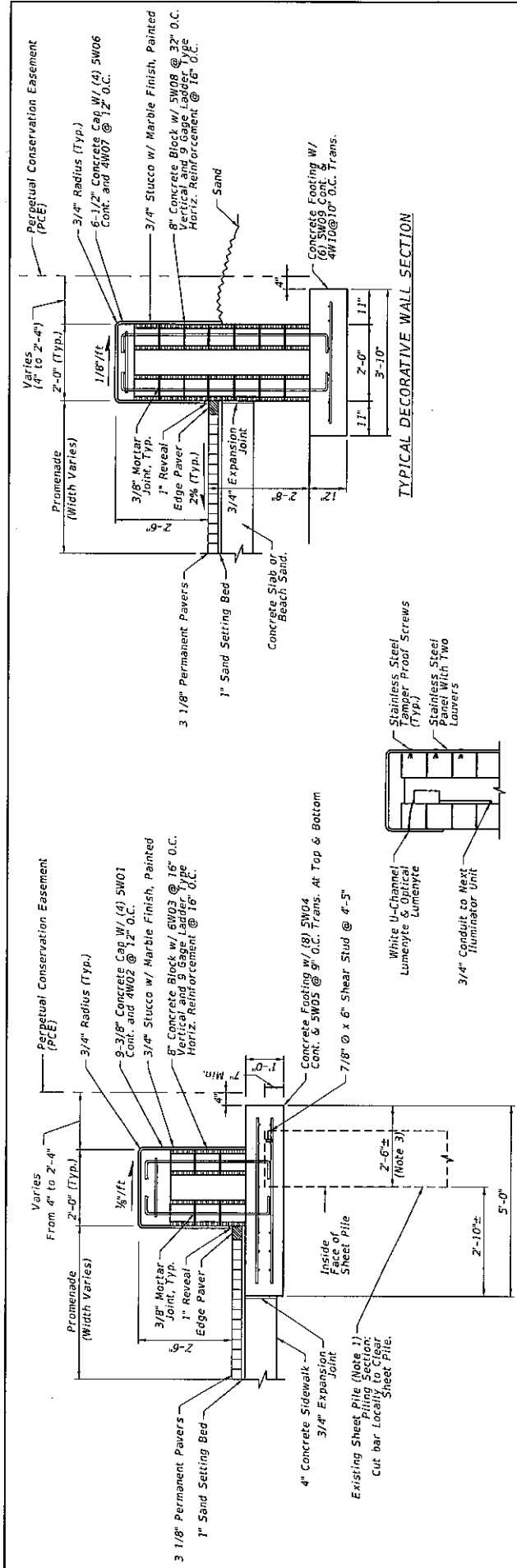
DATE		DESCRIPTION		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			FINANCIAL PROJECT ID
ROAD NO.	COUNTY	PROJECT NO.	433688-4-52-01
A1A	BROWARD	CADRE#1	

GENERAL NOTES

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SHEET NO. BW-2



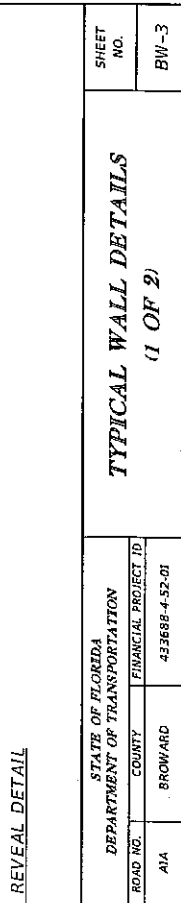
TYPICAL DECORATIVE WALL SECTION WITH EXISTING SHEET PILE



WALL LIGHTING SECTION



STUCCO REVEAL DETAIL



WALL REVEAL DETAIL

Note 1: In areas where the existing sheet pile may be interfering with the wall construction, the contractor shall notify the Engineer before commencing the construction. No existing sheet pile can be cut before approval by the Engineer.
 See as-built sheet pile profile (Sheets BW-18 to BW-20) for sheet pile elevations.
 2: Cut bar locally to clear sheetpile.
 3: See Sheet BW-12 Thru BW-16 For Sheet Pile Location.
 4: Actual Dimension May Deviate Slightly From 2'-6".
 4: For Wall and Footing Elevation, See Sheet BW-17

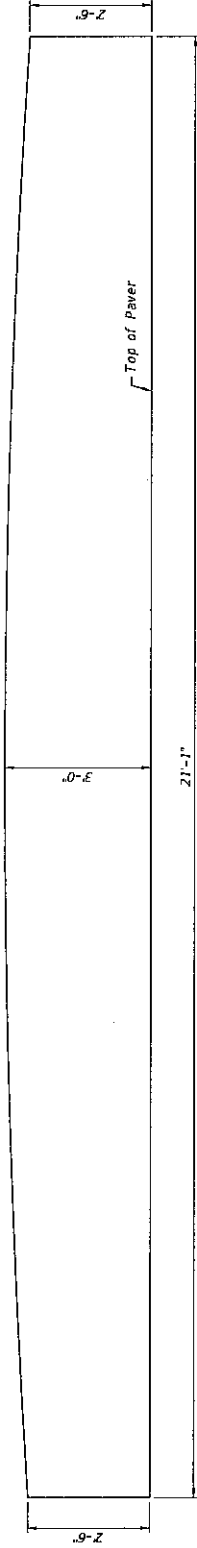
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

EAC Consulting, Inc.
 815 N.W. 57TH AVENUE, SUITE 402
 MIAMI, FL 33128
 305-485-2457
 P. L. UN. P.E.
 WWW.EACCONSULT.COM

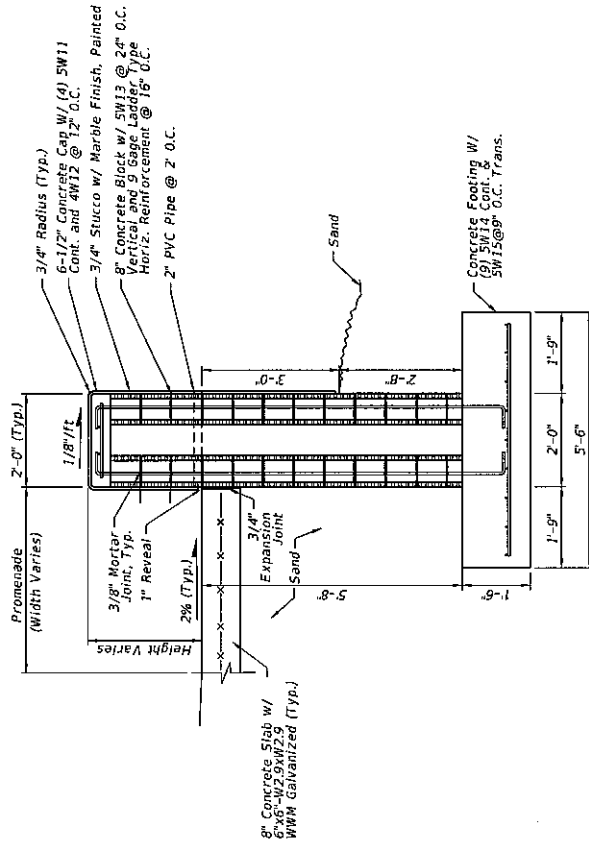
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY
 AIA BROWARD 433688-4-52-01
 68819 PW 11/21/2013 68819 PW 11/21/2013

TYPICAL WALL DETAILS
 (1 OF 2)

SHEET NO. BW-3

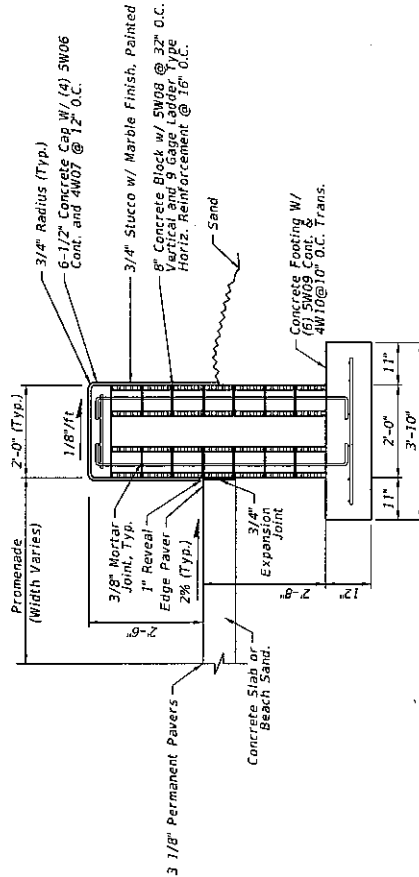


BACK WALL ELEVATION



SECTION F-F

For Location of Section F-F, See Sheet BW-6

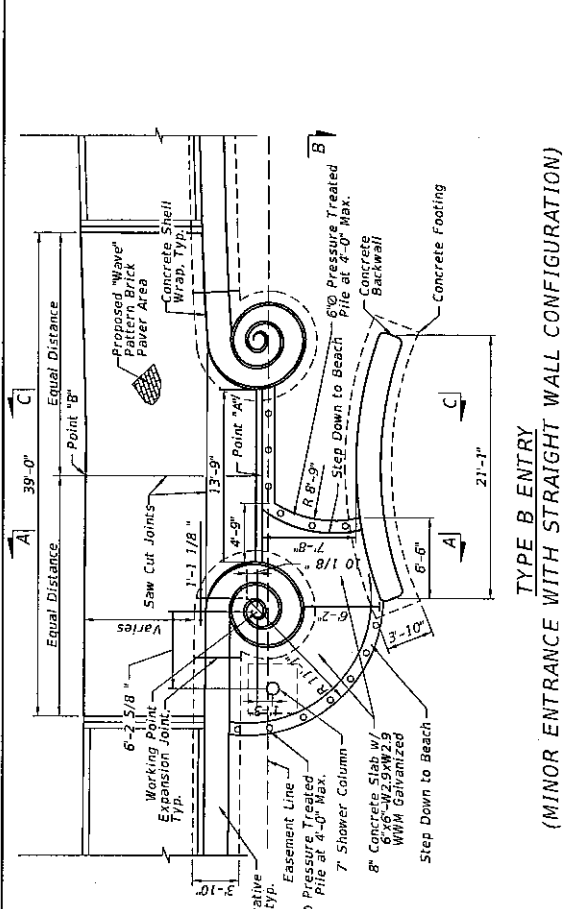


TYPICAL BACKWALL SECTION

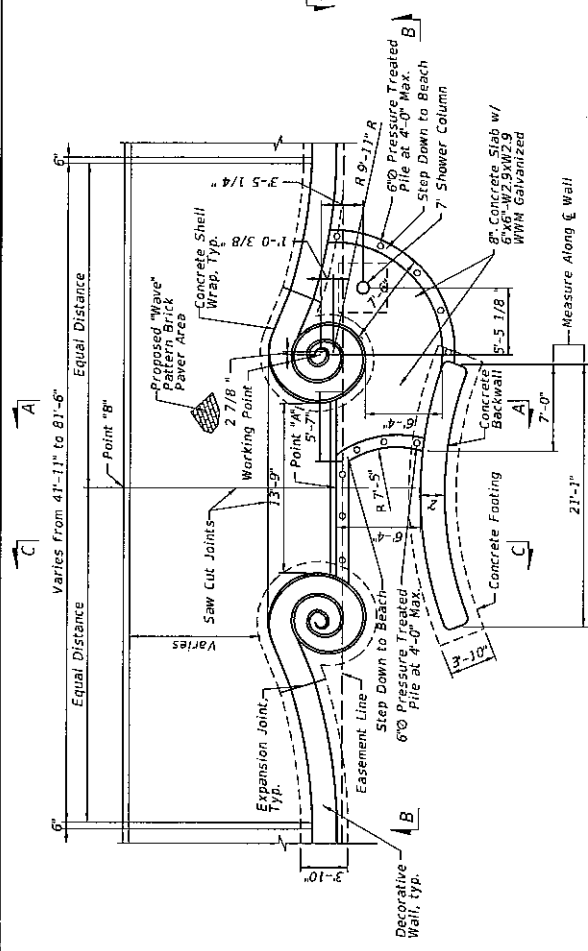
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

EAC Consulting, Inc. 815 NW 57th Avenue, Suite 402 Miami, FL 33126 305-865-2557 K.T. LIN, P.E. 10000 Biscayne Blvd, Suite 104 Miami, FL 33138 WWW.EACCONSULT.COM		CA0011
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A14	BROWARD	433698-4-52-01
STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION		
TYPICAL WALL DETAILS (2 OF 2)		
SHEET NO.		BW-4

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TYPE B ENTRY
(MINOR ENTRANCE WITH STRAIGHT WALL CONFIGURATION)

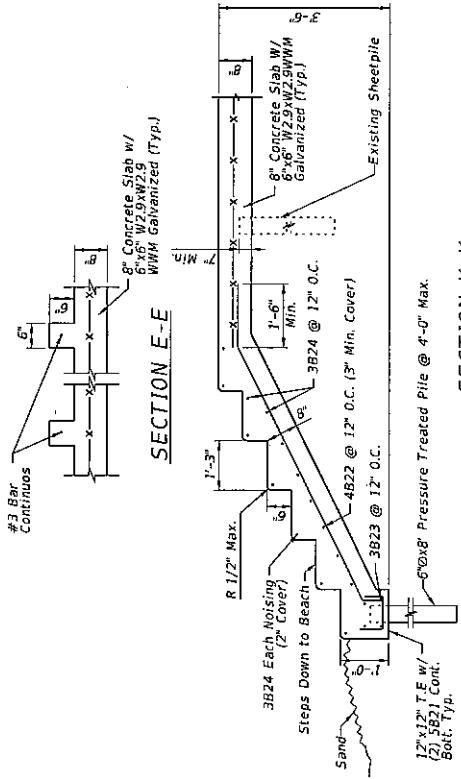
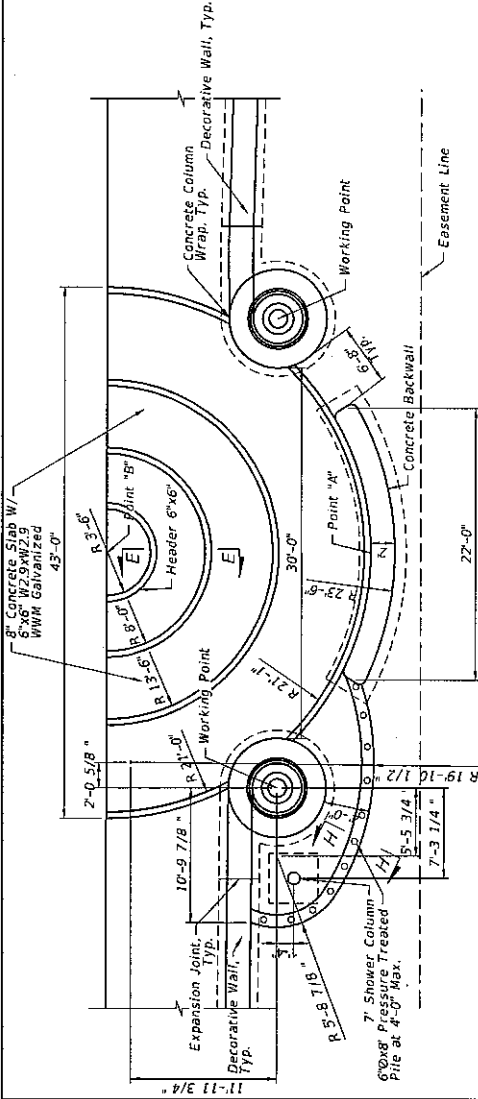


TYPE A ENTRY
(MINOR ENTRANCE WITHOUT SHEET PILE)

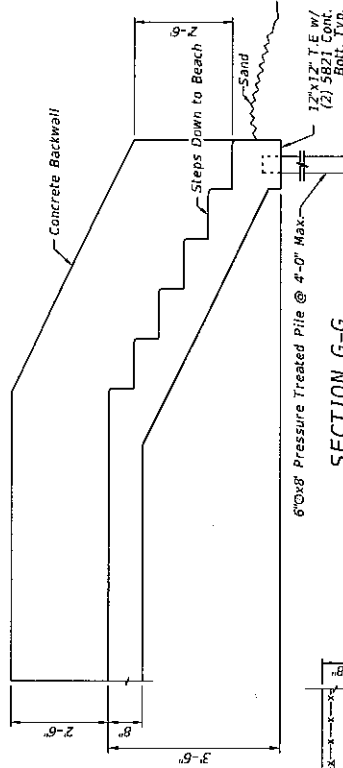
Entry Number	Entry Type	Distance from Point "A" to Easement Line	Distance from Point "A" to "B"	Shower Location
1	E	6'-6"	13'-5"	North Side
2	C	8'-9"	21'-6"	South Side
3	B	6"	15'-1"	South Side
4	A	6'-3"	15'-9"	North Side
5	A	4"	18'-8"	South Side
6	A	4"	11'-8"	North Side
7	A	4"	12'-2"	North Side
8	A	4"	15'-4"	North Side
9	E	11'-3"	12'-8"	North Side
10	D	7'-6"	12'-8"	North Side
11	D	7'-4"	12'-8"	North Side
12	D	7'-3"	19'-3"	South Side
13	D	7'-4"	12'-8"	North Side
14	D	7'-4"	12'-11"	North Side
15	D	7'-4"	12'-7"	North Side
16	D	7'-4"	19'-2"	North Side
17	D	6'-8"	13'-4"	North Side
18	E	1'-6"	15'	South Side

- Notes:**
1. For Shell Wrap Details, See Sheet BW-8.
 2. For Column Details, See Sheet BW-9.
 3. For Concrete Back Wall Elevation, See Sheet BW-4.
 4. For Concrete Back Wall Details, See Sheet BW-4.
 5. For Decorative Wall Detail, See Sheet BW-3.
 6. For Section A-A, See Sheet BW-10.
 7. For Section B-B, See Sheet BW-10.
 8. For Section C-C, See Sheet BW-10.
 9. For Shower Column Details, See Sheet BW-11.
 10. Legend "4" designates 4" Rise in Step. See Section B-B on Sheet BW-10.
 11. In areas where the existing sheet pile may be interfering with the wall construction, the contractor shall notify the Engineer before commencing the construction. No existing sheet pile can be cut before approval by the Engineer.
 12. Cut back sheet pile elevations BW-18 to BW-20 on sheet pile elevations.
 13. Cut back locally to other sheets.
 14. For Points "A" & "B" See Entry Dimension Table on This Sheet

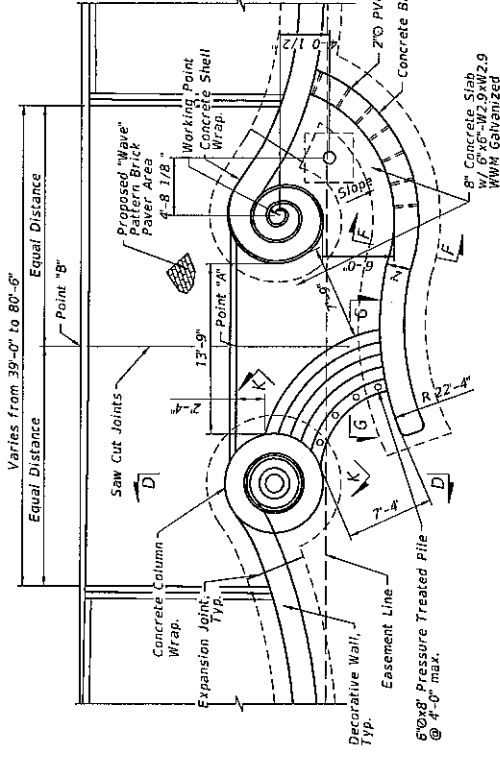
DATE		REVISIONS		DESCRIPTION	
STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION		TYPE A & B ENTRANCE DETAILS	
ROAD NO. A1A		COUNTY BROWARD		FINANCIAL PROJECT ID 433688-4-52-01	
C48701		68925 WA		11/17/2013	
EAC Consulting, Inc.		815 NW 57th Avenue, Suite 402		MIAMI, FL 33142	
K.T. UN, P.E.		305-265-2557		www.eacconsult.com	
SHEET NO.		BW-5		PROJECT NO. 33-201	



SECTION K-K



SECTION G-G



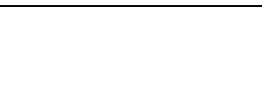
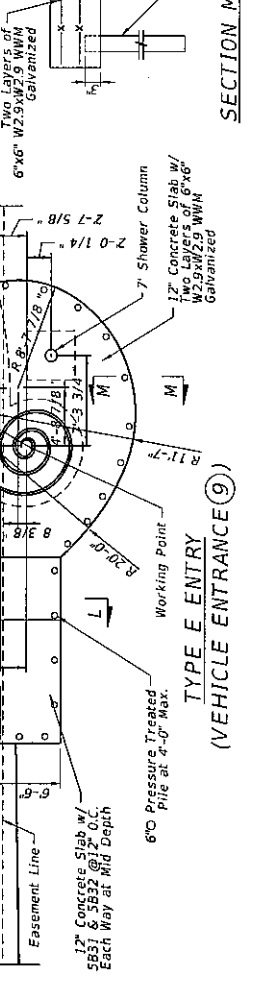
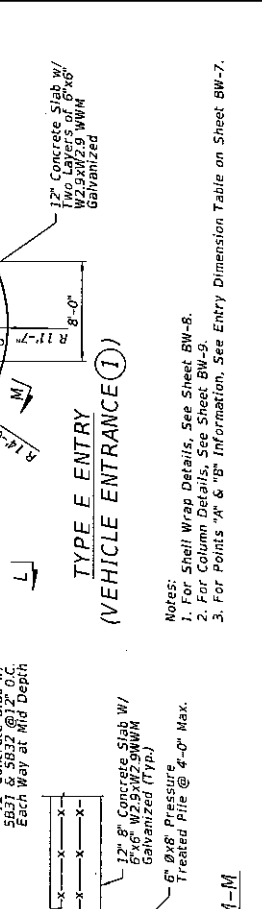
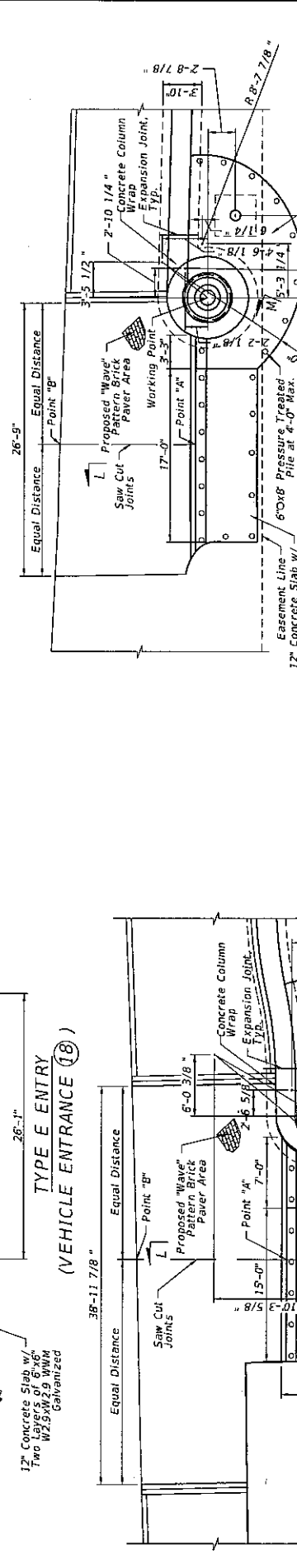
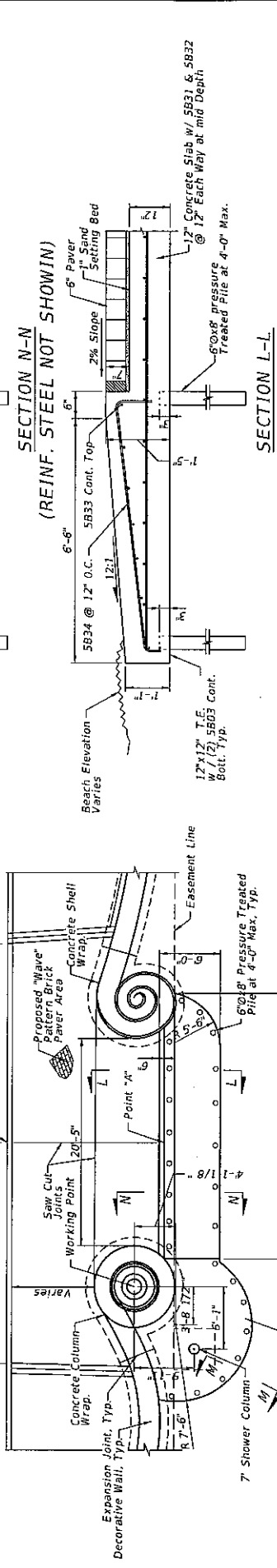
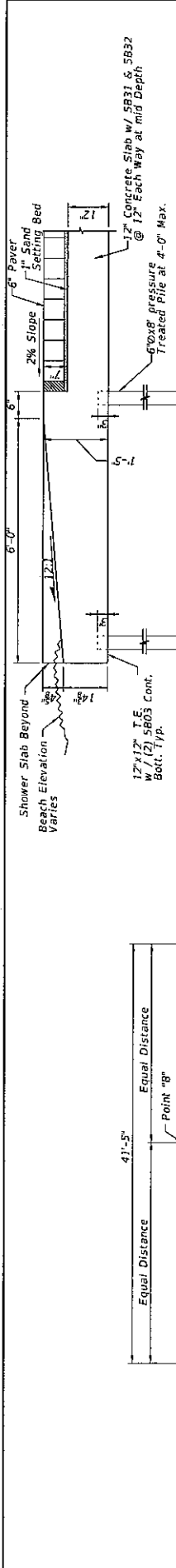
SECTION H-H

- Notes:
1. For Shell Wrap Details See Sheet BW-8
 2. For Column Details See Sheet BW-9
 3. For Concrete Back Wall Detail See Sheet BW-4
 4. For Shower Column Details See Sheet BW-3
 5. For Shower Column Details See Sheet BW-11
 6. For Section D-D See Sheet BW-9
 7. For Section F-F See Sheet BW-4
 8. Legend $\frac{1}{8}$ designates 4" Rise in Step. See Section B-B Sheet BW-10
 9. In areas where the existing sheet pile may be interfering with the wall construction, the contractor shall notify the Engineer before commencing the construction. No existing sheet pile can be cut before approval by the Engineer.
 10. See as-built sheet pile elevations. See BW-20 for sheet pile elevations.
 11. For Points 'A' & 'B' See Entry Dimension Table on Sheet BW-5.

TYPE D ENTRY
(MAJOR ENTRANCE WITH SHEET PILE)

REVISIONS		DESCRIPTION		DATE	

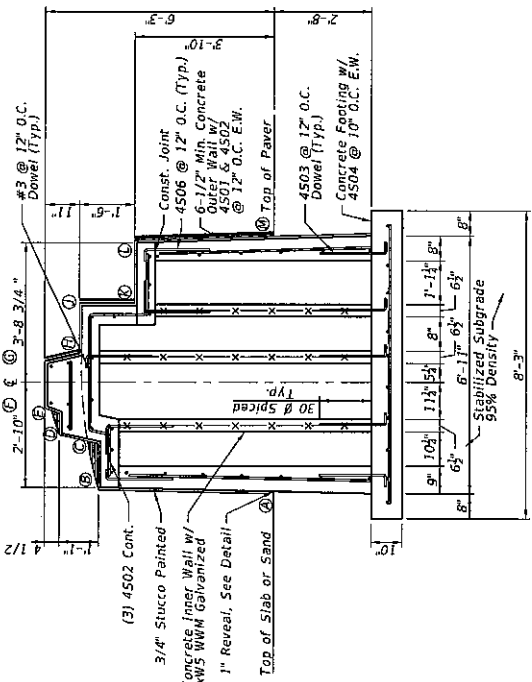
EAC Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-865-2857 FAX: 305-865-2857 WWW.EACONSULT.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO. A1A	COUNTY BROWARD	FINANCIAL PROJECT ID 433688-4-52-01
SHEET NO. BW-6			11/21/2013 6:05:28 PM W:\Project-FL\Project\Project\433688-4-52-01\Sheet\BWBrowardDetail.dwg		



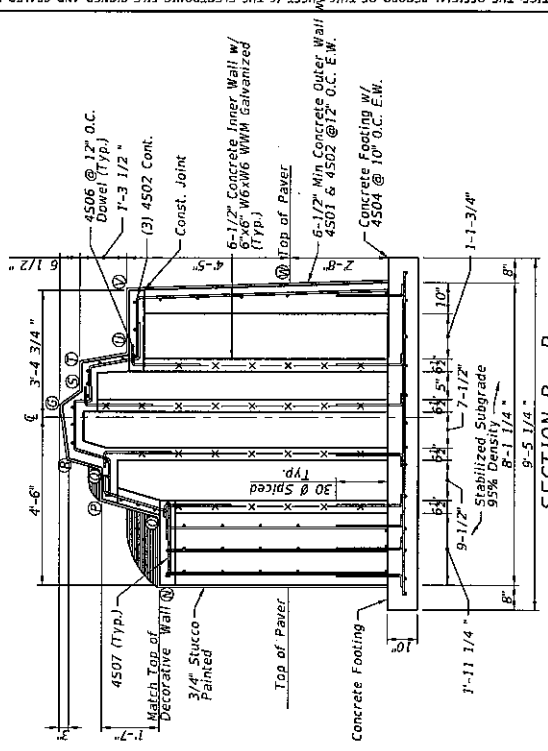
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET NO.	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	TYPE E ENTRANCE DETAILS		
AIA	BROWARD	433686-4-52-01	BW-7		
CAR011	68500 PM		11/27/2013		
EAG Consulting, Inc. 815 NW 57th Avenue, Suite 402 Miami, FL 33128 305-265-2557 K.T. LIN, P.E. www.eagconsulting.com					

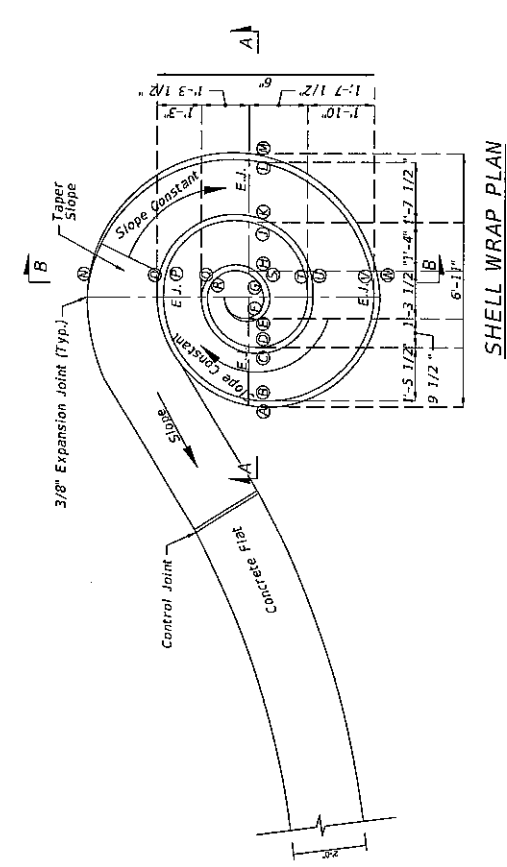
Notes:
 1. For Shell Wrap Details, See Sheet BW-8.
 2. For Column Details, See Sheet BW-9.
 3. For Points "A" & "B" Information, See Entry Dimension Table on Sheet BW-7.



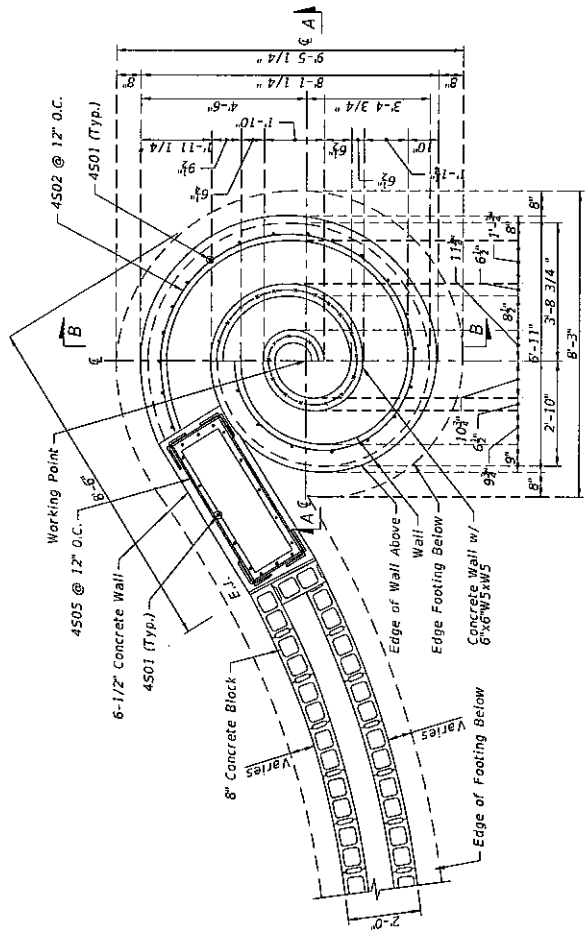
SECTION A - A



SECTION B - B



SHELL WRAP PLAN

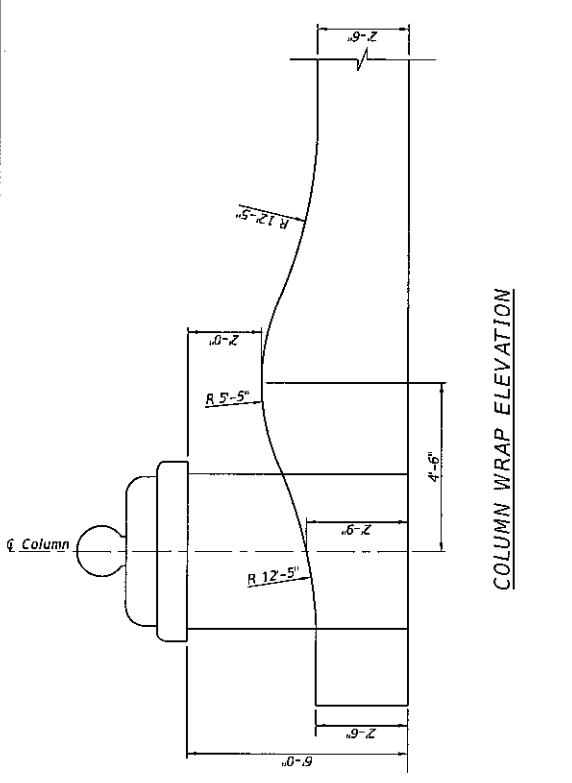


SHELL WRAP FOUNDATION PLAN

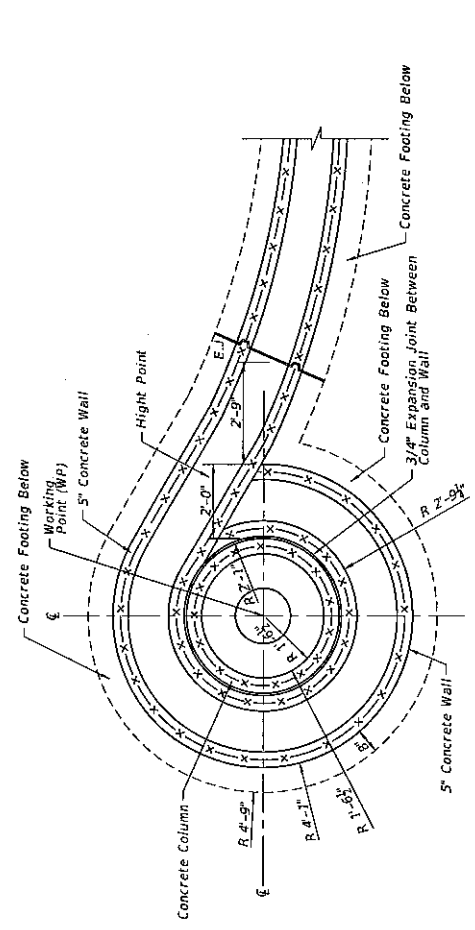
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

EAC CONSULTING, INC. 815 NW 57th AVENUE, SUITE 402 MIAMI, FL 33157 305-585-2525 K.T. LIN, P.E. P.E. LIC. 41084 WWW.EACCONSULT.COM		CAMP011
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO. COUNTY	FINANCIAL PROJECT ID
ALA BROWARD	433688-4-52-01	
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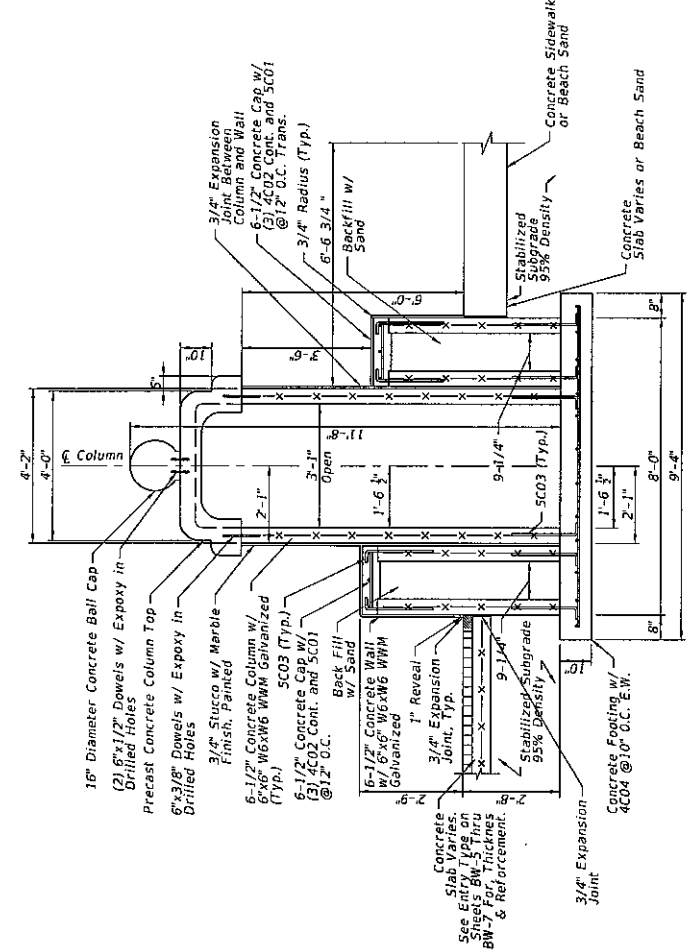
SHELL WRAP DETAILS



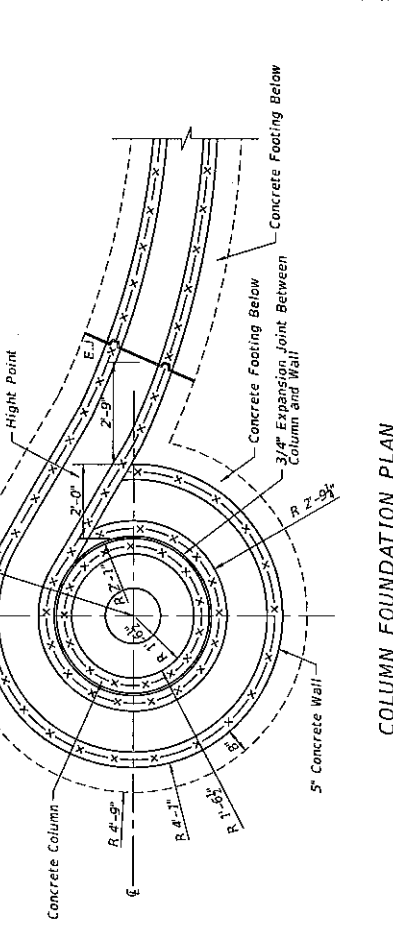
COLUMN WRAP ELEVATION



COLUMN FOUNDATION PLAN



SECTION D-D



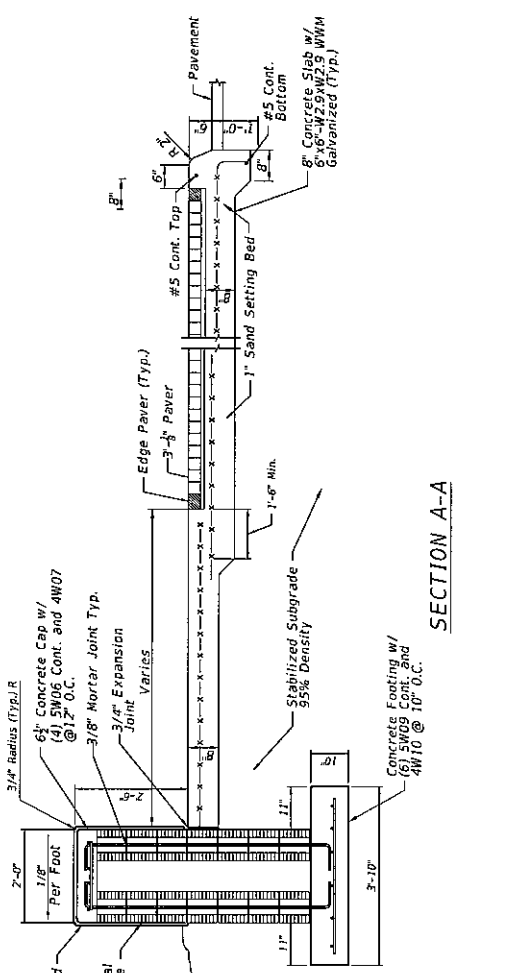
COLUMN PLAN

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

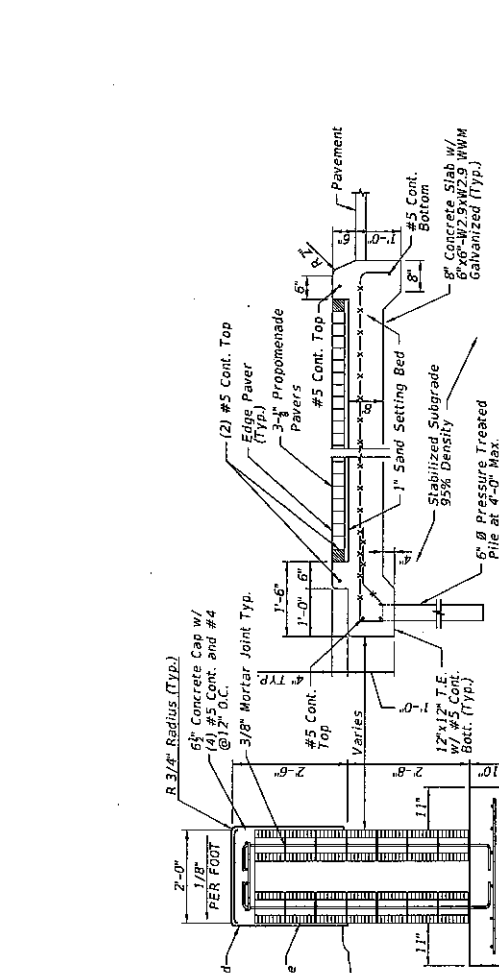
EAG CONSULTING INC. 815 NW 57TH AVENUE, SUITE 402 MIAMI, FL 33106 305-265-2557 K.T. LIN, P.E. P.E. LIC. 11081 WWW.EAGCONSULT.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID A1A BROWARD 43368B-4-S2-01	SHEET NO. BW-9
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COLUMN DETAILS

11/21/2013 6:05:36 PM \\Project-PL\Project\1\Project\33368-4-S2-01\Drawn\Caritas.dwg

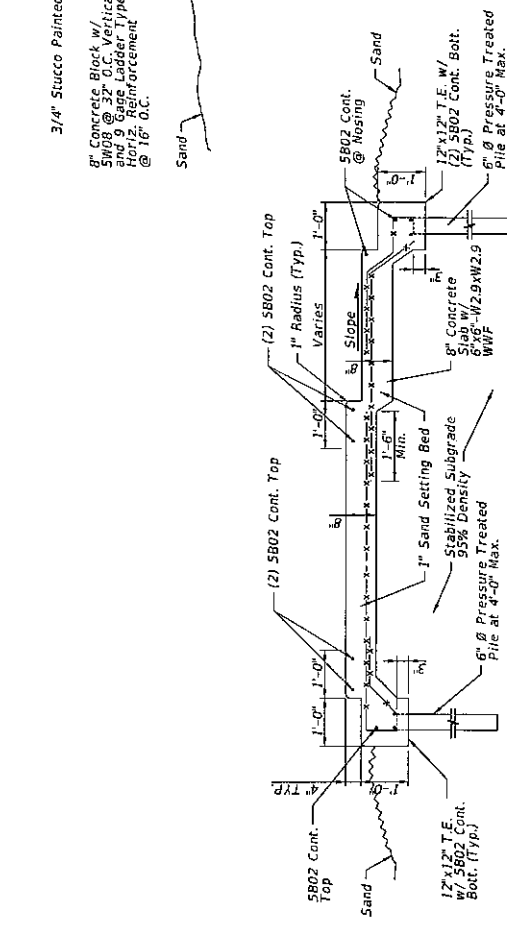


SECTION A-A

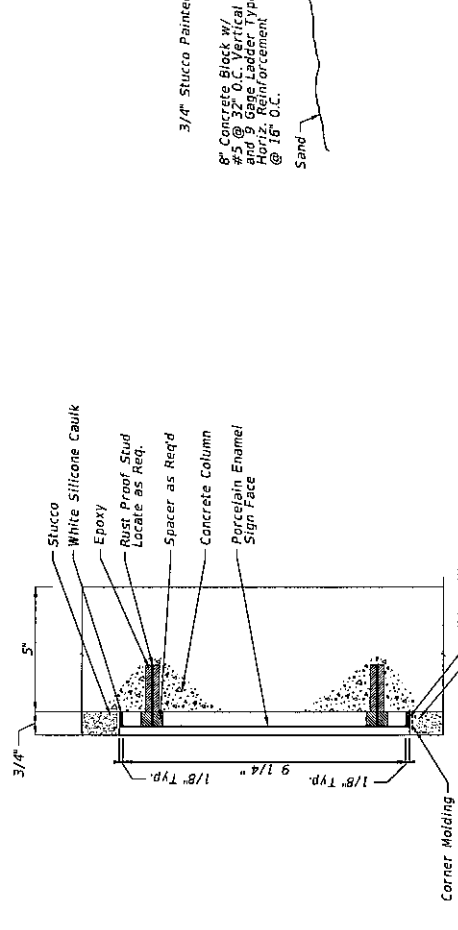


SECTION C-C

Note:
 1. Work this Sheet With Sheet BW-5
 2. The Selection of Shower Heads and Faucets Shall be Coordinated and Approved by The City Park and Recreation Department.



SECTION B-B

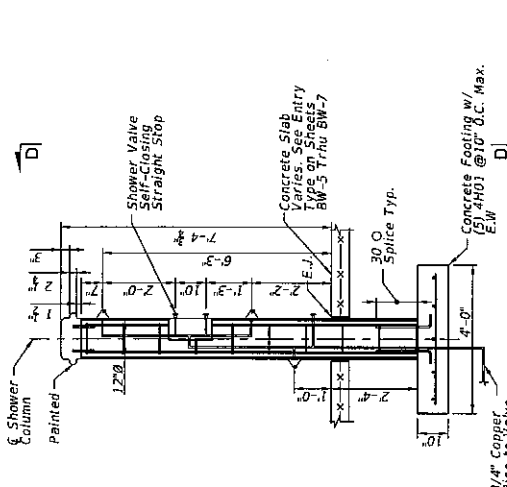


COLUMN SIGN MOUNTING DETAIL

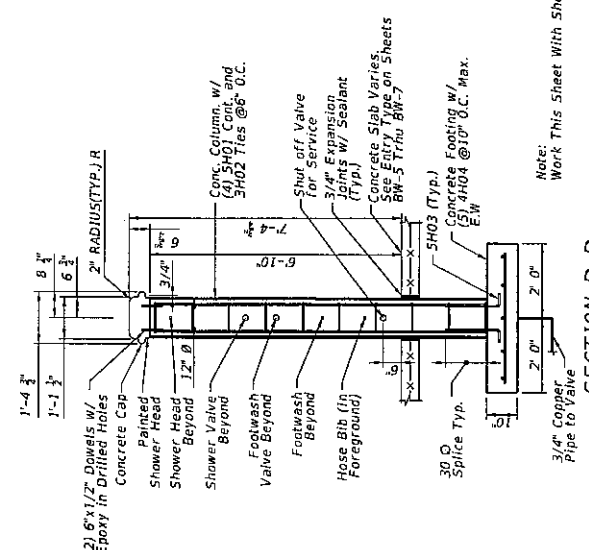
DATE	DESCRIPTION	REVISIONS	DESCRIPTION	DATE

EAC CONSULTING, INC. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-465-2657 K.T. LUK, P.E. 11111 N.W. 42ND AVENUE, SUITE 104 MIAMI, FL 33187 WWW.EACCONSULT.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO. BW-10
ROAD NO. A1A	COUNTY BROWARD	FINANCIAL PROJECT ID 433688-4-52-01	(1 OF 2)
CAV7011	603536.PK	11/21/2013	

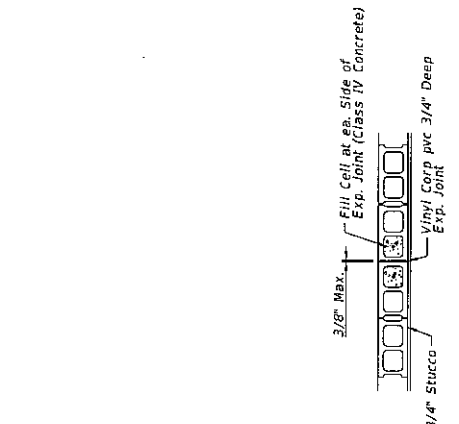
STRUCTURAL DETAILS
 (1 OF 2)



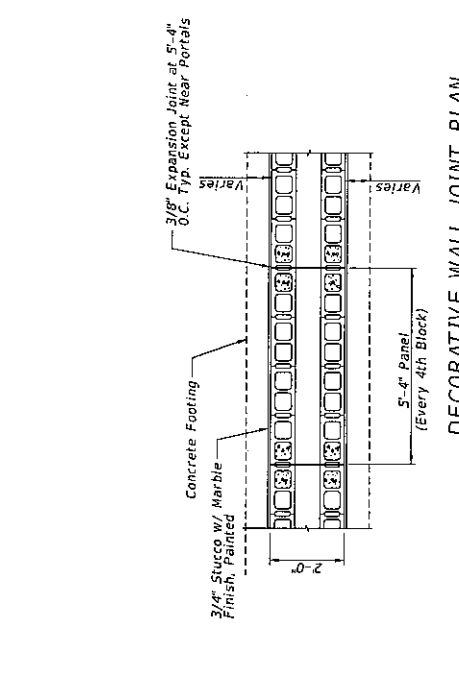
ELEVATION: SHOWER COLUMN



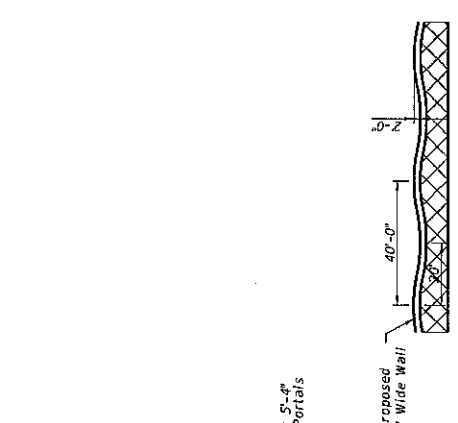
Note: Work This Sheet With Sheets BW-3 Thru BW-5



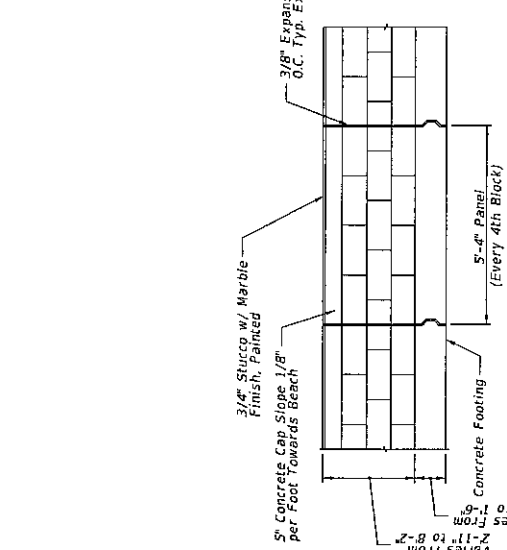
BLOCK JOINT



DECORATIVE WALL JOINT PLAN



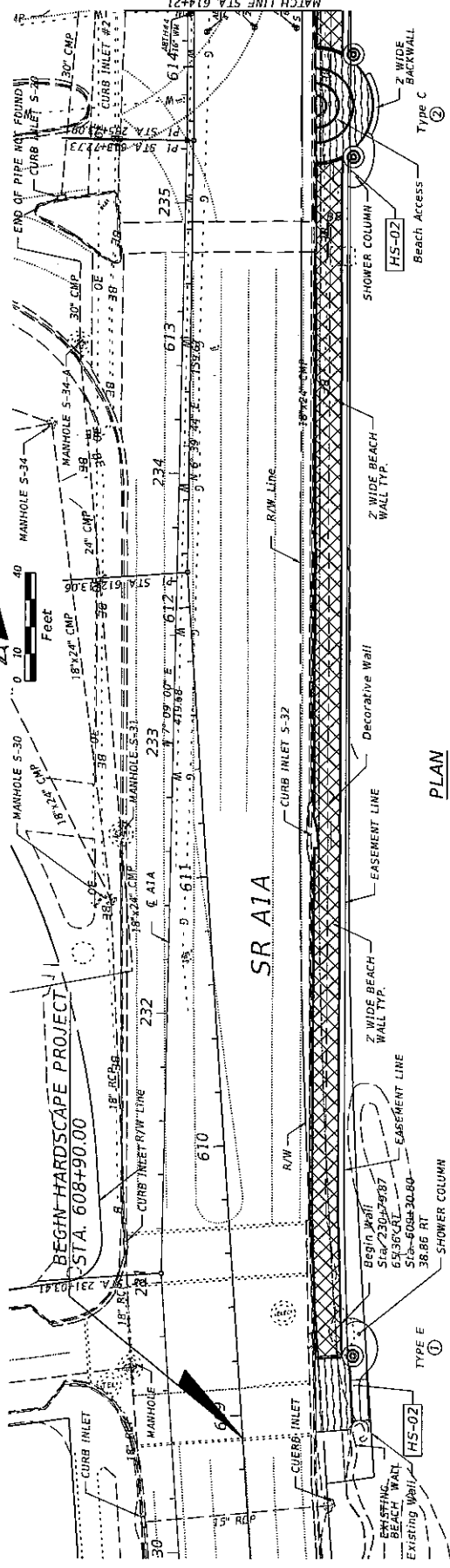
WAVE WALL PLAN DETAIL



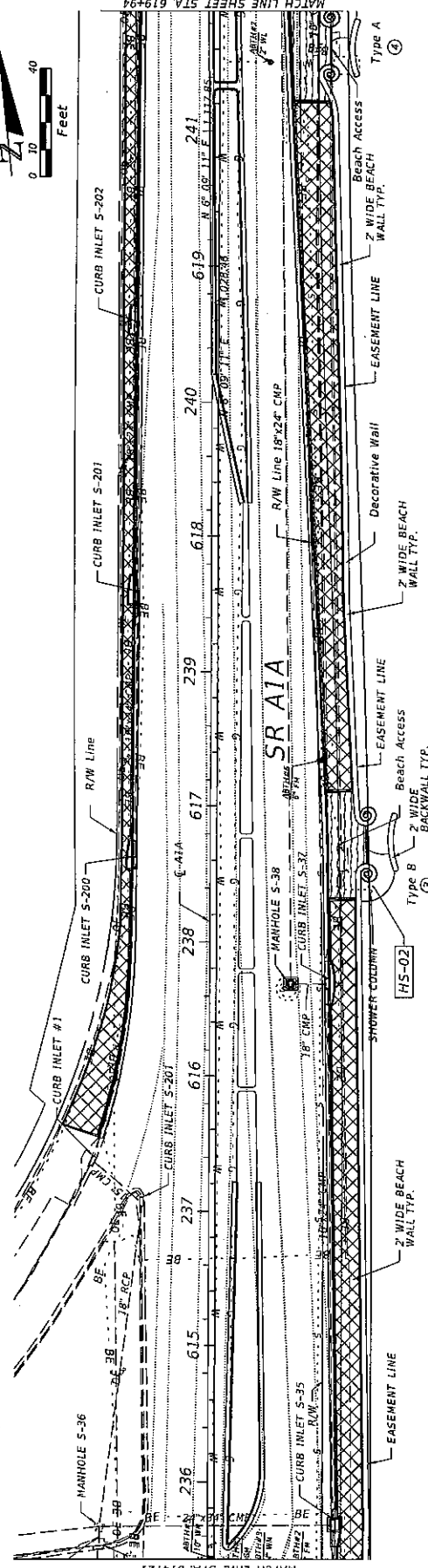
DECORATIVE WALL JOINT ELEVATION

EAC CONSULTING, INC. 815 NW 57TH AVENUE, SUITE 402 MIAMI, FL 33176 305-265-2557 K.T. LIN, P.E. P.O. BOX 4408 MIAMI, FL 33106 WWW.EACCONSULTING.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A/A COUNTY BROWARD FINANCIAL PROJECT ID 433688-4-52-01	SHEET NO. BW-11
DATE	DESCRIPTION	REVISIONS	
		DATE	

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PLAN



PLAN

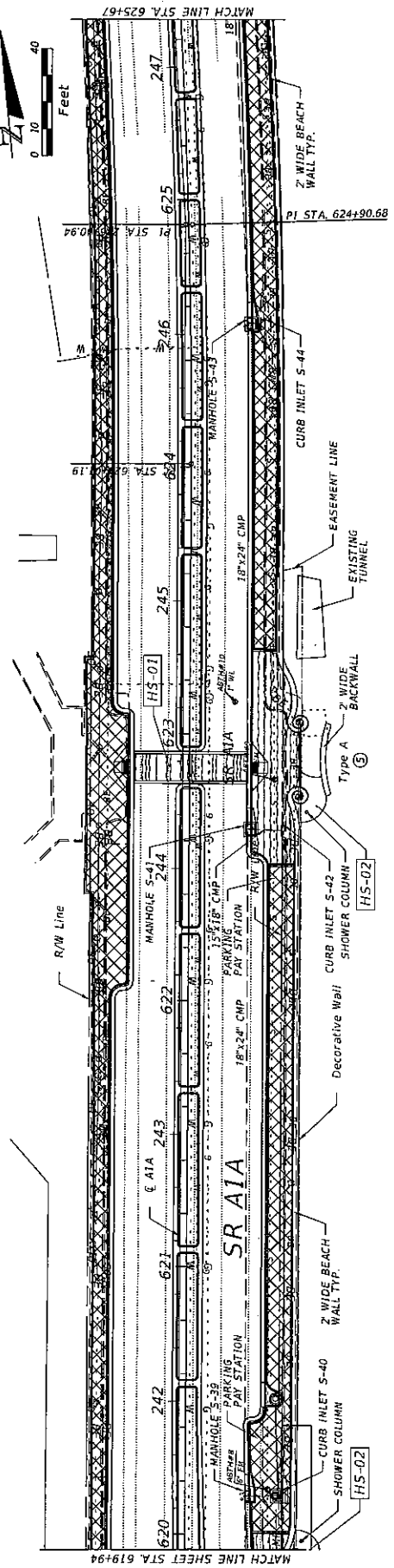
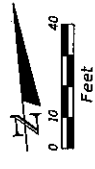
LEGEND: ① Indicates Entrance ID Number

Note: See Sheets BW-5 Thru BW-7 For Entry Type Details

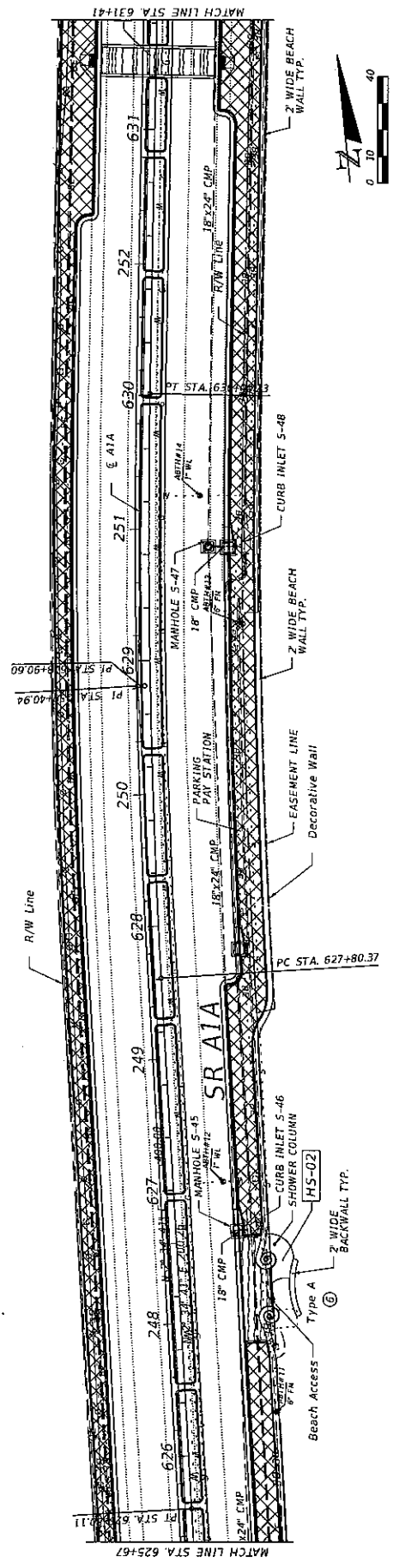
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

EAC CONSULTING, INC. 655 N.W. 13TH AVENUE, SUITE 402 MIAMI, FL 33136 305-265-2557 K.T. LIN, P.E. P.E. LIC. 4708 WWW.EACCONSULT.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NO.
ROAD NO. A1A		COUNTY BROWARD		BW-12
PROJECT ID 433RBB-4-52-01		FINANCIAL PROJECT ID 433RBB-4-52-01		

WALL PLANS (1 OF 5)



PLAN



PLAN

LEGEND: ① Indicates Entrance ID Number

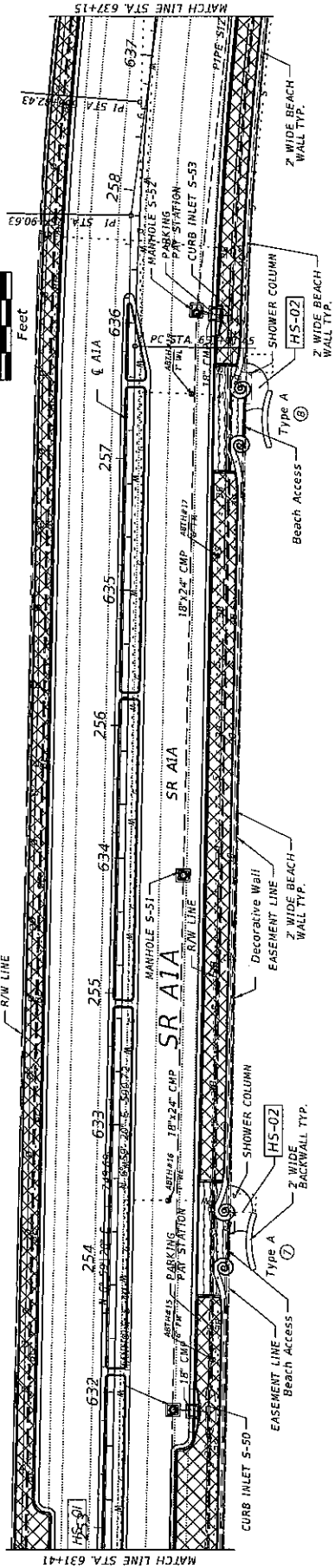
NOTE: See Sheets BW-5 Thru BW-7 For Entry Type Details

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

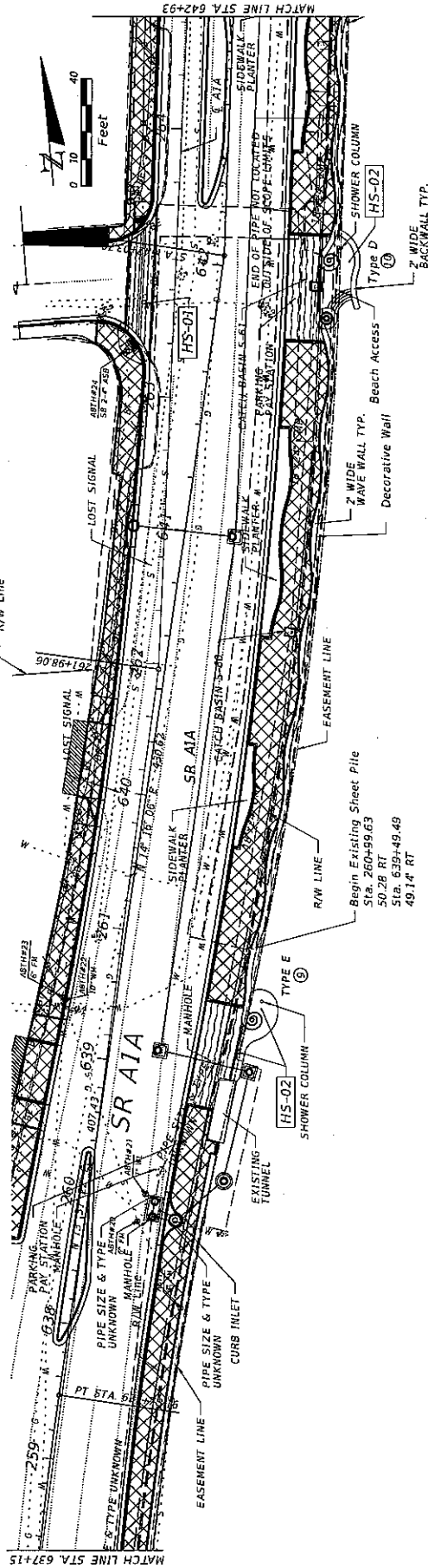
EAC Consulting, Inc. 815 N.W. 57th Avenue, Suite 402 Miami, FL 33128 305-265-2887 P.E. LIC. 41081 WWW.EACCONSULT.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
SR A1A	A1A	ROAD NO.	FINANCIAL PROJECT ID
SR A1A	BROWARD	COUNTY	433088-4-52-01
		CADWYS	

17/27/2013	638645 BH	638645 BH	17/27/2013
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SHEET NO.	BW-13
WALL PLANS (2 OF 5)	



PLAN



PLAN

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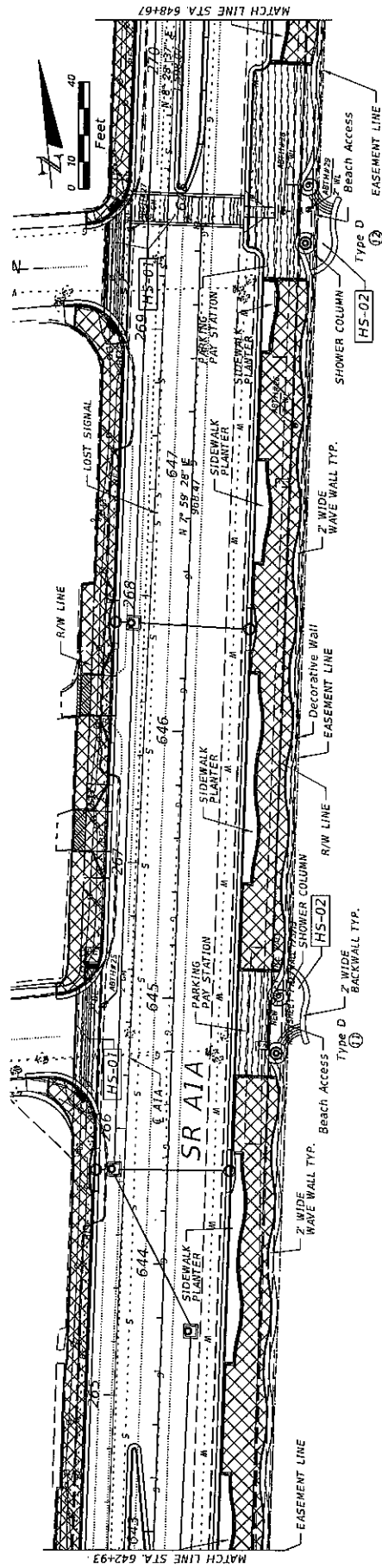
Note: See Sheets BW-5 Thru BW-7 For Entry Type Details

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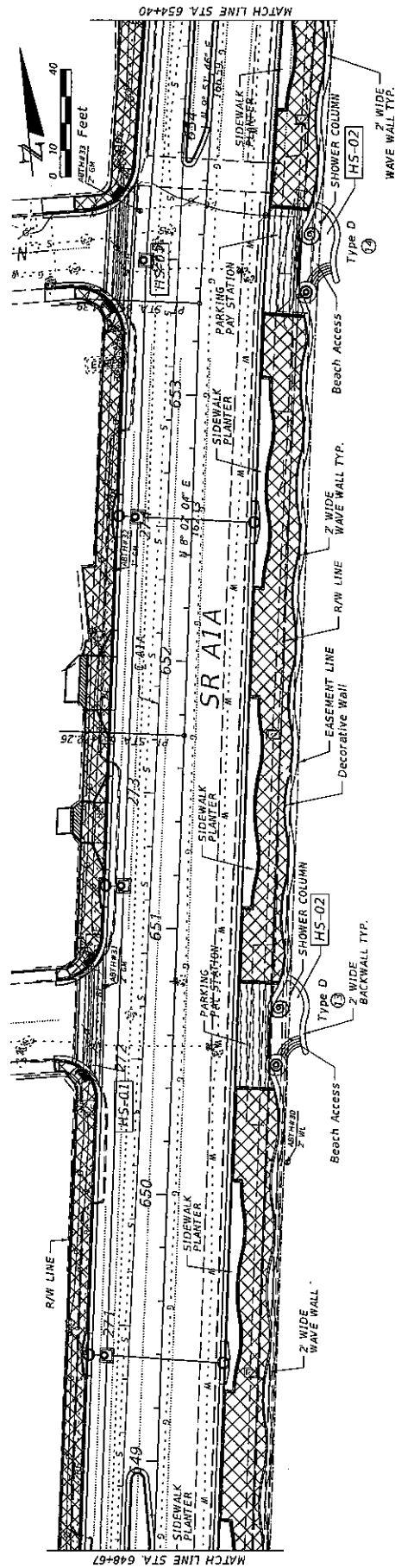
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ROAD NO.	A/A	COUNTY	FINANCIAL PROJECT ID
BROWARD	BROWARD	433688-4-52-01	

SHEET NO.		WALL PLANS (3 OF 5)
BW-14		

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PLAN



PLAN

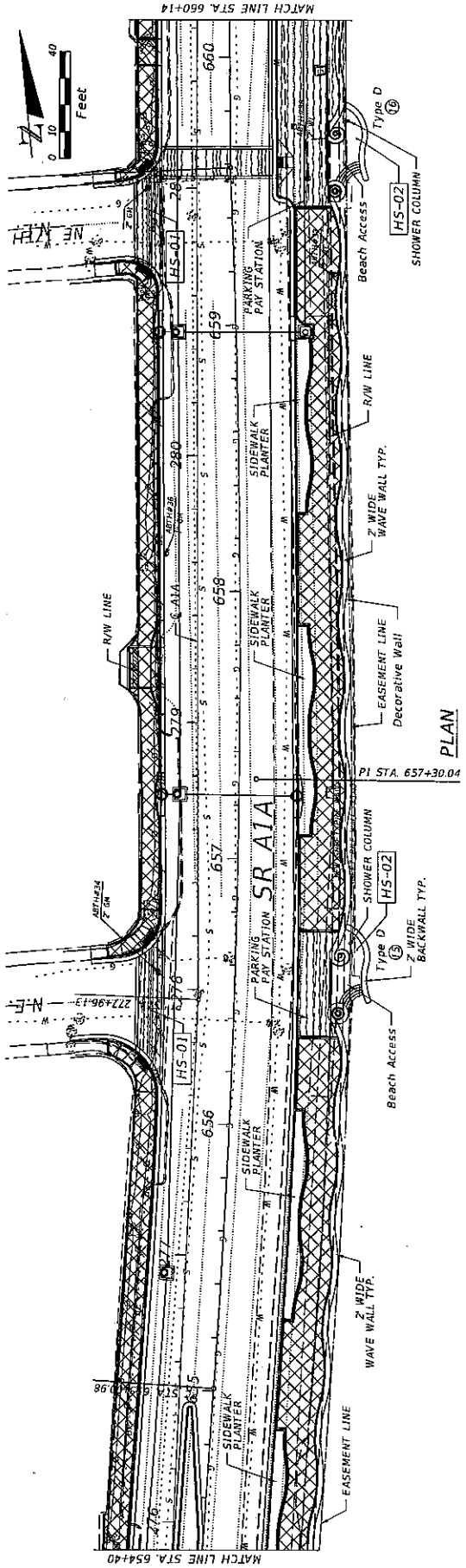
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NOTE: See Sheets BW-5 Thru BW-7 For Entry Type Details

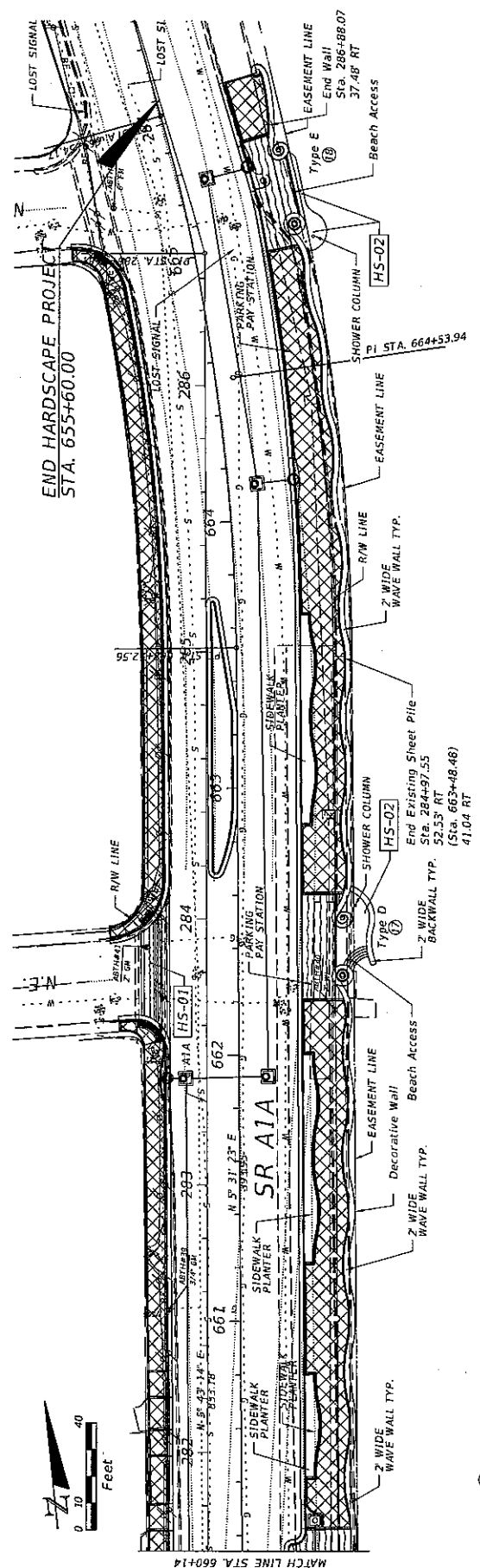
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DATE	DESCRIPTION	DATE	DESCRIPTION

EAG Consulting, Inc. 815 N.W. 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-865-2967 P. L. LIN, P.E. WWW.EAGCONSULT.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
A1A	BROWARD	433686-4-52-01	
DRAWN BY		CHECKED BY	

SHEET NO.	BW-15
WALL PLANS (4 OF 5)	



PLAN



PLAN

LEGEND: ① Indicates Entrance ID Number

NOTE: See Sheets BW-5 Thru BW-7 For Entry Type Details

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

EAC CONSULTING, INC. 815 NW 57TH AVENUE, SUITE 402 MIAMI, FL 33126 305-285-2557 K.T. LIN, P.E. WWW.EACCONSULT.COM		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NO. BW-16
ROAD NO. A1A	COUNTY BROWARD	FINANCIAL PROJECT ID 433688-4-52-01	WALL PLANS (5 OF 5)	
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6/16/31 PM

1/27/2013

PROJECT: F:\Projects\130608-1-52\Drawings\WallPlans02.dwg

Station	offset	Back of Sidewalk Elev.	Top of Wall Elev.	Top of Footing Elev.
6094+00.00	36.46	5.60	8.30	3.13
6094+50.00	37.24	5.80	8.30	3.13
6104+00.00	36.66	5.14	8.64	3.47
6104+50.00	43.41	6.28	8.76	3.59
6114+00.00	48.94	6.98	8.88	3.71
6114+50.00	50.43	6.52	9.02	3.85
6124+00.00	53.65	8.67	9.17	4.00
6124+50.00	54.22	6.49	8.88	3.82
6134+00.00	53.81	6.30	8.80	3.63
6134+50.00	53.24	6.21	8.71	3.54
6144+00.00	53.62	6.12	8.62	3.45
6144+50.00	52.95	6.11	8.61	3.44
6154+00.00	52.08	6.10	8.60	3.43
6154+50.00	51.16	6.08	8.56	3.39
6164+00.00	50.30	6.01	8.51	3.34
6164+50.00	49.41	6.02	8.52	3.35
6174+00.00	48.52	6.03	8.53	3.36
6174+50.00	47.64	6.16	8.66	3.49
6184+00.00	46.76	6.29	8.79	3.62
6184+50.00	45.87	6.48	8.98	3.81
6194+00.00	44.04	6.66	9.16	3.99
6194+50.00	42.81	6.72	9.22	4.05
6204+00.00	38.44	6.79	9.29	4.12
6204+50.00	40.17	6.87	9.37	4.21
6214+00.00	40.17	6.96	9.46	4.30
6214+50.00	40.16	6.99	9.49	4.32
6224+00.00	40.16	7.02	9.52	4.35
6224+50.00	38.71	7.12	9.62	4.46
6234+00.00	33.16	7.23	9.73	4.56
6234+50.00	33.16	7.28	9.68	4.71
6244+00.00	33.16	7.33	9.63	4.87
6244+50.00	33.16	7.37	9.57	5.03
6254+00.00	33.16	7.51	10.11	4.94
6254+50.00	33.16	7.62	10.12	4.98
6264+00.00	33.16	7.64	10.14	4.97
6264+50.00	33.16	7.70	10.20	5.03
6274+00.00	33.16	7.76	10.26	5.09
6274+50.00	33.16	7.84	10.34	5.17
6284+00.00	40.16	7.92	10.42	5.25
6284+50.00	40.21	7.97	10.47	5.30
6294+00.00	40.22	8.02	10.52	5.35
6294+50.00	40.20	7.84	10.44	5.27
6304+00.00	43.16	7.85	10.35	5.18
6304+50.00	43.16	7.90	10.40	5.23
6314+00.00	40.17	8.13	10.63	5.46
6314+50.00	40.17	8.01	10.51	5.34
6324+00.00	40.18	7.89	10.39	5.22
6324+50.00	38.61	7.99	10.48	5.31
6334+00.00	40.16	8.07	10.57	5.40
6334+50.00	40.16	8.14	10.64	5.48
6344+00.00	40.17	8.22	10.72	5.56
6344+50.00	40.17	8.03	10.53	5.38
6354+00.00	40.18	7.84	10.34	5.17
6354+50.00	40.03	7.63	10.03	4.86
6364+00.00	40.17	7.21	9.71	4.55
6364+50.00	40.20	7.10	9.60	4.43
6374+00.00	40.22	6.99	9.49	4.32
6374+50.00	40.24	6.89	9.39	4.21
6384+00.00	40.30	6.67	9.17	4.00
6384+50.00	42.37	6.55	9.05	3.88
6394+00.00	47.88	6.78	9.29	4.12
6394+50.00	47.63	6.85	9.35	4.16
6404+00.00	47.25	7.00	9.50	4.50

Station	offset	Back of Sidewalk Elev.	Top of Wall Elev.	Top of Footing Elev.
6404+50.00	51.37	7.15	9.65	5.80
6414+00.00	48.23	7.30	9.80	6.95
6414+50.00	45.51	7.45	9.95	7.10
6424+00.00	41.61	7.50	10.00	7.16
6424+50.00	40.02	7.41	9.91	7.07
6434+00.00	41.60	7.28	9.78	6.92
6434+50.00	41.18	7.11	9.61	6.77
6444+00.00	39.72	6.98	9.46	6.62
6444+50.00	39.95	6.89	9.39	6.55
6454+00.00	47.71	7.10	9.50	6.76
6454+50.00	39.97	7.19	9.69	6.85
6464+00.00	41.56	7.07	9.57	6.73
6464+50.00	41.24	6.98	9.46	6.64
6474+00.00	39.91	7.14	9.64	6.79
6474+50.00	39.93	7.28	9.79	6.94
6484+00.00	41.24	7.50	10.00	7.16
6484+50.00	39.68	7.42	9.92	7.08
6494+00.00	41.31	7.27	9.77	6.93
6494+50.00	41.56	7.20	9.70	6.85
6504+00.00	40.00	7.40	9.90	7.05
6504+50.00	39.68	7.56	10.06	7.22
6514+00.00	40.38	7.63	10.13	7.29
6514+50.00	39.60	7.47	9.97	7.13
6524+00.00	41.08	7.31	9.81	6.97
6524+50.00	41.61	7.15	9.65	6.81
6534+00.00	40.19	7.32	9.82	6.98
6534+50.00	40.45	7.44	9.94	7.10
6544+00.00	40.13	7.72	10.22	7.38
6544+50.00	39.41	7.92	10.42	7.56
6554+00.00	40.61	7.93	10.43	7.59
6554+50.00	41.66	7.78	10.28	7.43
6564+00.00	39.63	7.63	10.13	7.28
6564+50.00	40.90	7.54	10.04	7.20
6574+00.00	39.48	7.33	9.83	6.99
6574+50.00	37.54	7.31	9.84	6.99
6584+00.00	38.39	7.49	9.99	7.14
6584+50.00	39.97	7.64	10.14	7.29
6594+00.00	38.42	7.79	10.29	7.44
6594+50.00	38.77	7.91	10.41	7.56
6604+00.00	39.85	8.08	10.59	7.74
6604+50.00	40.44	8.24	10.74	7.89
6614+00.00	41.64	8.21	10.71	7.86
6614+50.00	40.83	8.01	10.51	7.66
6624+00.00	39.63	7.81	10.31	7.46
6624+50.00	40.14	7.57	10.07	7.22
6634+00.00	41.36	7.41	9.91	7.06
6634+50.00	41.62	7.21	9.71	6.84
6644+00.00	39.89	7.01	9.51	6.62
6644+50.00	40.41	7.06	9.56	6.67
6654+00.00	40.46	7.18	9.68	6.81
6654+50.00	39.61	7.21	9.71	6.84

Work this Sheet With Sheets BW-12 to BW-16

WALL ELEVATION TABLE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. _____ COUNTY _____ FINANCIAL PROJECT ID _____

AIA BROWARD 433668-4-52-01

CAP 7011

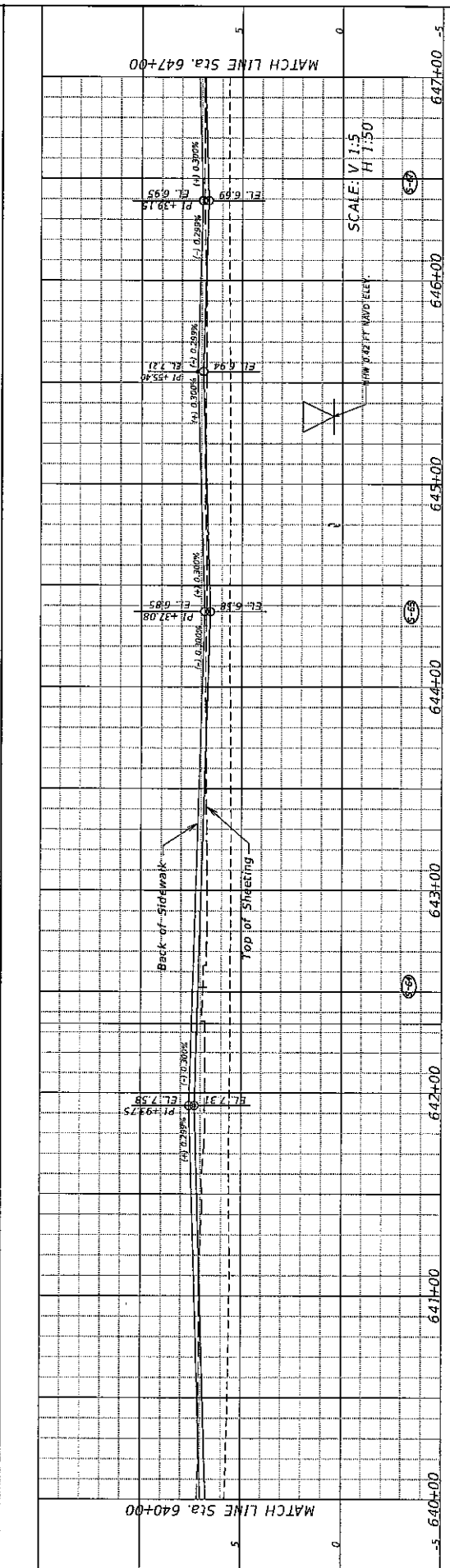
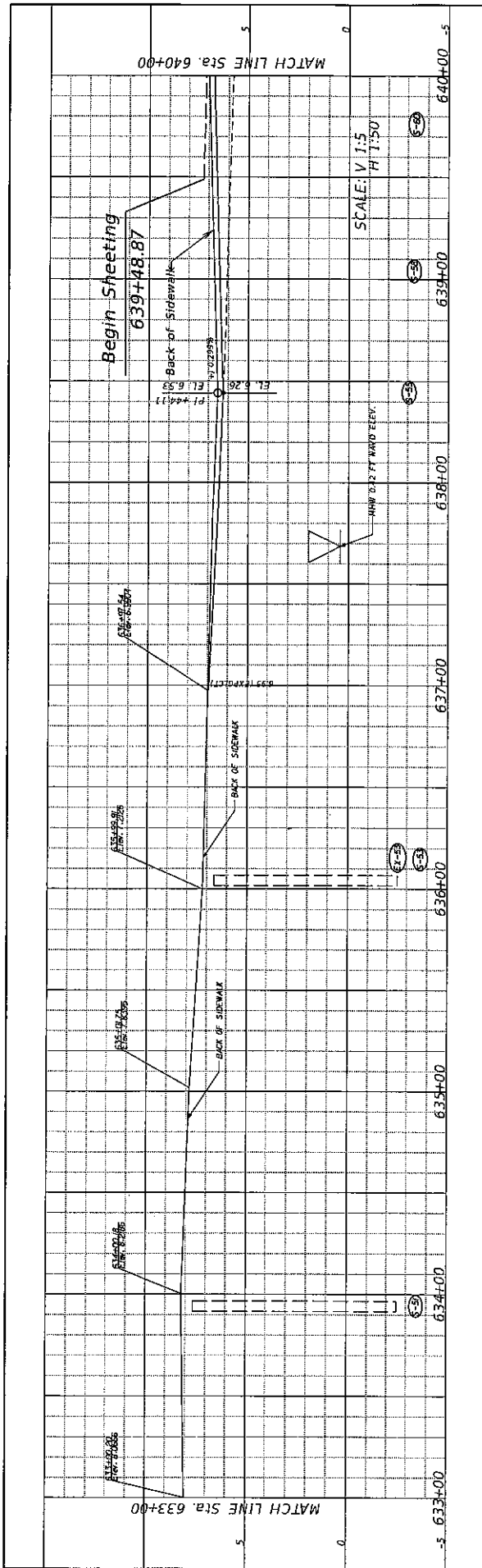
EAC Consulting, Inc.
815 NW 57TH AVENUE, SUITE 402
MIAMI, FL 33126
305-295-0567
www.eacinc.com
P. O. BOX 14198
MIAMI, FL 33102
WWW.EACCONSULT.COM

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

SHEET NO. BW-17

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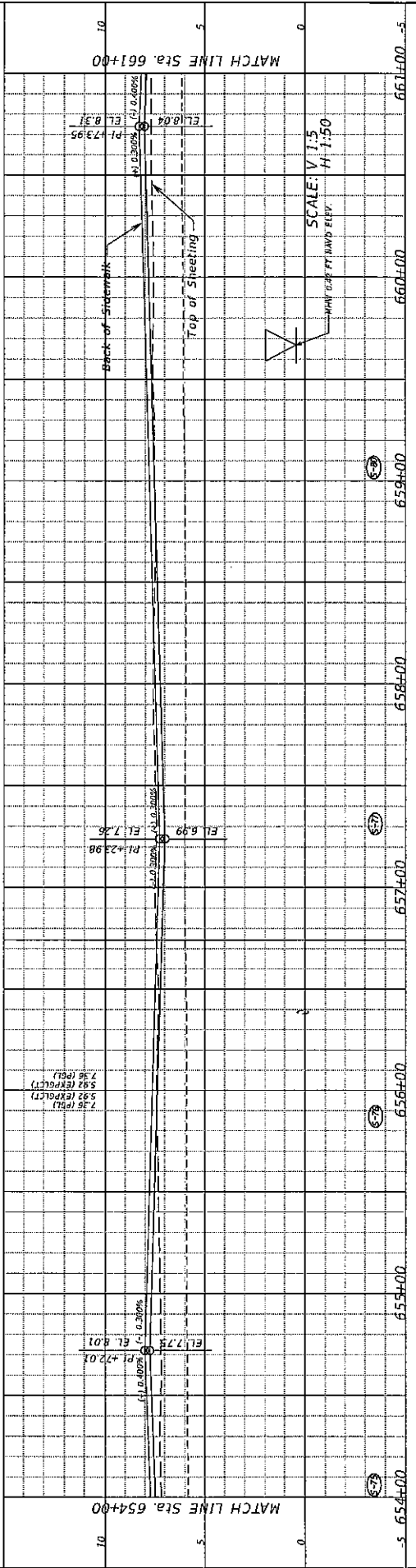
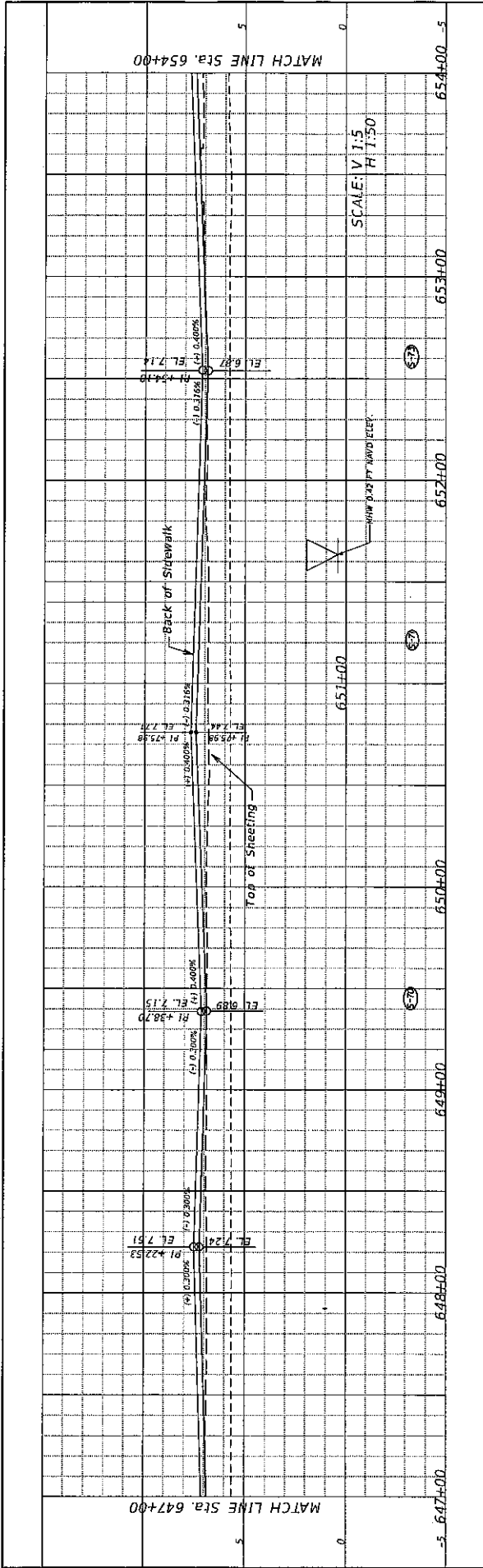


NOTE: AS-BUILT ELEVATIONS PROVIDED BY FLORIDA DEPARTMENT OF TRANSPORTATION

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		ROAD NO. COUNTY FINANCIAL PROJECT ID	
FOOT DISTRICT N 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309		A/A	BROWARD 433688-4-52-01

SHEET NO.	BW-18
(1 OF 3)	

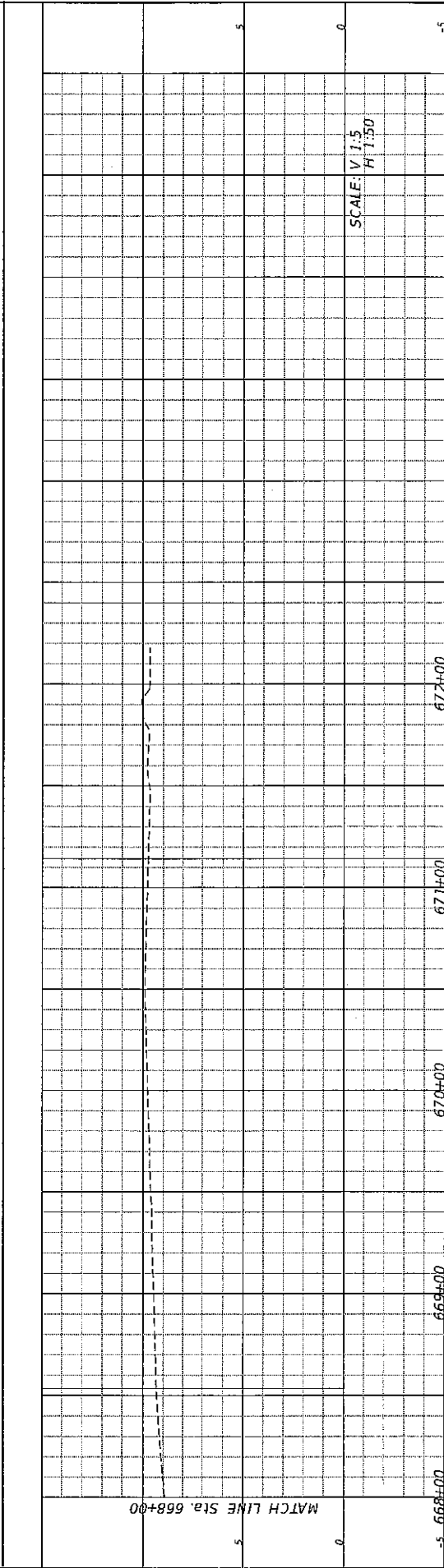
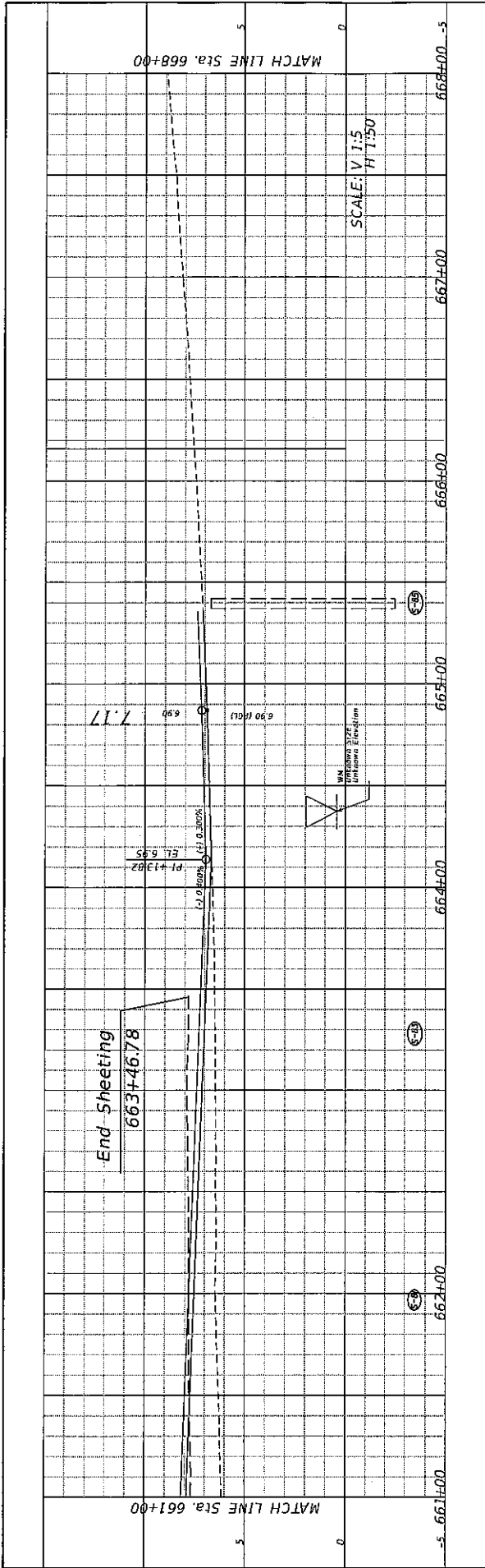


NOTE: AS-BUILT ELEVATIONS PROVIDED BY FLORIDA DEPARTMENT OF TRANSPORTATION

DATE	DESCRIPTION	REVISIONS	DESCRIPTION	DATE

FOOT DISTRICT IV BRUCE L. SIMMONS, PE 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO. A1A	COUNTY BROWARD	FINANCIAL PROJECT ID 433888-4-52-01
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SHEET NO. BW-19	(2 OF 3)
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NOTE: AS-BUILT ELEVATIONS PROVIDED BY FLORIDA DEPARTMENT OF TRANSPORTATION

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

FOOT DISTRICT IV SCOTT PETERSON, P.E. 3400 WEST COMMERCIAL BLVD. FORT LAUDERDALE, FL 33309		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO. A1A COUNTY BROWARD FINANCIAL PROJECT ID 433888-4-52-01	AS-BUILT SHEET PILE PROFILE (3 OF 3)	SHEET NO. BW-20
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Step & Sub	41	21	1	41	1	NO. REQUIRED = 1	NO. REQUIRED = 1
5 B37	1	21	1	41	1		
5 B32	20	6	42	1	20	6	
5 B33	26	0	6	1	26	0	
5 B34	7	6	21	15	0	6	
Shower Column							85 85
5 H01	8	10	4	1	8	10	
3 H02	2	11	10	24	0	9	
3 H03	2	6	4	10	1	9	
4 H04	3	6	10	1	3	6	
Concrete Column Wrap							
5 C01	1	8	28	1	1	8	
4 C02	28	0	3	24	2	3	
5 C03	2	6	125	10	1	6	
4 C04	8	10	22	1	9	10	
Concrete Shell Wrap							
4 S01	6	6	34	1	6	6	
4 S02	27	4	11	24	2	2	
4 S03	2	6	34	10	0	10	
4 S04	8	11	22	1	8	11	
4 S05	11	3	6	4	4	3	
4 S06	3	11	46	10	2	2	
4 S07	1	9	46	1	1	9	
6x6-WxWxW5 WWM -- 341 lbs							
6x6-WxWxW5 WWM -- 101 lbs							

Step & Sub	38	7	27	1 <th>38</th> <th>7 <th>NO. REQUIRED = 1</th> <th>NO. REQUIRED = 1</th> </th>	38	7 <th>NO. REQUIRED = 1</th> <th>NO. REQUIRED = 1</th>	NO. REQUIRED = 1	NO. REQUIRED = 1
5 B31	38	7	27	1	38	7		
5 B32	30	6	40	1	20	6		
5 B33	21	8	8	1	21	8		
5 B34	0	22	15	0	6	6		85 85
Shower Column								
5 H01	8	10	4	1	8	10		
3 H02	2	11	10	24	0	9		
3 H03	2	6	4	10	1	9		
4 H04	3	6	10	1	3	6		
Concrete Shell Wrap								
4 S01	6	6	34	1	6	6		
4 S02	27	4	11	24	2	2		
4 S03	2	6	34	10	0	10		
4 S04	8	11	22	1	8	11		
4 S05	11	3	6	4	4	3		
4 S06	3	11	46	10	2	2		
4 S07	1	9	46	1	1	9		
6x6-WxWxW5 WWM -- 58 lbs								
6x6-WxWxW5 WWM -- 101 lbs								

Step & Sub	26	3	21	1 <th>26</th> <th>3 <th>NO. REQUIRED = 1</th> <th>NO. REQUIRED = 1</th> </th>	26	3 <th>NO. REQUIRED = 1</th> <th>NO. REQUIRED = 1</th>	NO. REQUIRED = 1	NO. REQUIRED = 1
5 B31	26	3	21	1	26	3		
5 B32	19	4	28	1	10	4		
5 B33	21	8	8	1	21	8		
5 B34	0	23	15	0	6	6		85 85
Shower Column								
5 H01	8	10	4	1	8	10		
3 H02	2	11	10	24	0	9		
3 H03	2	6	4	10	1	9		
4 H04	3	6	10	1	3	6		
Concrete Column Wrap								
5 C01	1	8	28	1	1	8		
4 C02	28	0	3	24	2	3		
5 C03	2	6	125	10	1	6		
4 C04	8	10	22	1	8	10		
6x6-WxWxW5 WWM -- 283 lbs								
6x6-WxWxW5 WWM -- 101 lbs								

TYPE ENTRY (VEHICLE ENTRANCE 18) NO. REQUIRED = 1

TYPE ENTRY (VEHICLE ENTRANCE 9) NO. REQUIRED = 1

TYPE ENTRY (VEHICLE ENTRANCE 1) NO. REQUIRED = 1

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY AIA BROWARD
FINANCIAL PROJECT ID 433686-4-52-01

REINFORCING BAR LIST
(2 OF 2)

11/21/2013 6:07:18 PM
C:\Project-FLV\proj\13\Project\433686-4-52-01\Drawings\RebarList.rvt

SHEET NO. BW-22

EAC Consulting, Inc.
816 N.W. 57TH AVENUE, SUITE 402
MIAMI, FL 33128
305-285-2557
K.T. LIN, P.E.
P.E. LIC. 41088
WWW.EACCONSULT.COM

CERTIFICATION

I certify this to be a true and correct copy of the record of the City of Fort Lauderdale, Florida.

WITNESSETH my hand and official seal of the City of Fort Lauderdale, Florida, this the 3 day of February 20 11

[Signature]
City Clerk

RESOLUTION NO. 14-14

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FORT LAUDERDALE, FLORIDA, AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A MEMORANDUM OF AGREEMENT AND A SIXTH AMENDMENT TO INCLUSIVE LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT, BOTH FOR IMPROVEMENTS ON STATE ROAD A1A WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION.

WHEREAS, the City of Fort Lauderdale ("City") and the Florida Department of Transportation ("FDOT") wish to execute a Memorandum of Agreement to maintain specific elements constructed under Project Number 433688-4-52-01 to include decorative light fixtures or poles, a decorative sea wall, LED string lights, and a fiber-optic system servicing the decorative sea wall installed along A1A, which improvements were installed during the reconstruction at State Road A1A related to Tropical Storm Sandy; and

WHEREAS, by virtue of City's Resolution No. 07-252, the City and FDOT entered into an Inclusive Landscape Maintenance Memorandum of Agreement for landscape improvements on State Road A1A; and

WHEREAS, FDOT requires execution of, and City desires to enter into Amendment No. 6 to the Inclusive Landscape Maintenance Memorandum of Agreement; and


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

SECTION 1. That the proper City officials are hereby authorized to execute a Memorandum of Agreement for the maintenance of decorative wall improvements and decorative lighting improvements on State Road A1A and Amendment No. 6 to the Inclusive Landscape Maintenance Memorandum of Agreement for the maintenance of landscape improvements on State Road A1A, both with the Florida State Department of Transportation.

SECTION 2. That the office of the City Attorney shall review and approve as to form all documents prior to their execution by City officials.

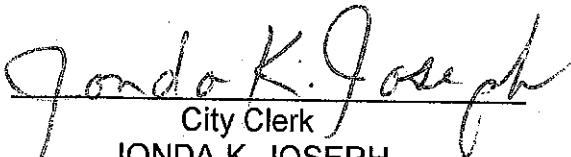
SECTION 3. That this Resolution shall be in full force and effect upon final passage.

ADOPTED this the 22nd day of January, 2014.



Mayor
JOHN P. "JACK" SEILER

ATTEST:



City Clerk
JONDA K. JOSEPH

L:\COMM 2014\Resolutions\January 22\14-14.doc

CITY CLERK

2014 FEB 25 PM 6:04

SECTION No.: 860500
FM No.: 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

**DISTRICT FOUR (4) AMENDMENT NUMBER SIX (6)
TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND
CITY OF FORT LAUDERDALE INCLUSIVE LANDSCAPE MAINTENANCE
MEMORANDUM OF AGREEMENT**

This is Amendment Number Six (6) to the Agreement dated **January 31, 2008**, made and entered into this 3th day of FEBRUARY 2014 by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the **City of Fort Lauderdale**, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WITNESSETH

WHEREAS, the parties entered into the Inclusive Landscape Maintenance Memorandum of Agreement dated, **January 31, 2008** for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road A1A and;

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed on State Road A1A in accordance with the above referenced Agreement;

WHEREAS, the parties have agreed to enter into a separate agreement for the decorative wall and decorative lighting;

WHEREAS, the AGENCY by Resolution No. 14-14 dated Jan 22, 2014 attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorized its officers to do so;

NOW THEREFORE, for and in consideration of mutual benefits that flow each to the other, the parties covenant and agree as follows:

1. Pursuant to page 8, paragraph 14 of the Inclusive Landscape Maintenance Memorandum of Agreement for State Road A1A dated **January 31, 2008** the DEPARTMENT has decided to construct additional landscape improvements and/or to modify an improvement located as indicated in **Exhibit "A"**, State Road A1A from N.E. 9th Street (M.P. 3.248) to just north of N.E. 18th Street (M.P. 4.322) in accordance with the plans attached as **Exhibit "B"**.
2. The AGENCY shall agree to maintain additional landscape improvements in the Agreement described above, including specialty surfacing (concrete pavers and stamped colored asphalt [also known as patterned pavement]) according to

Exhibit "C", the Maintenance Plan and Exhibit "D" Patterned Pavement Maintenance.

3. The DEPARTMENT agrees to enter into a contract to have installed said landscape improvements for an amount as indicated in **Exhibit "E"** not to exceed **\$984,757.50**.
4. The maintenance of the decorative wall and lighting shall be maintained under a separate agreement between the DEPARTMENT and the AGENCY.

Except as modified by this amendment, all terms and conditions of the original Agreement and all amendments there to shall remain in full force and effect.

Exhibits

Exhibit A - Landscape Improvements Limits and Maintenance Boundaries and Location Map

Exhibit B - Landscape Improvement Plans

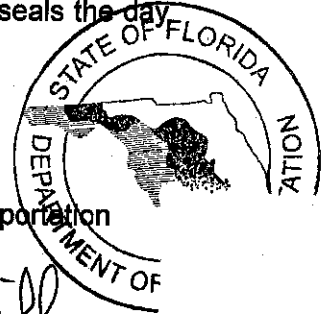
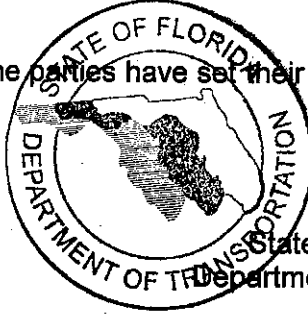
Exhibit C - Maintenance Plan For Landscape Improvements

Exhibit D - Patterned Pavement Maintenance

Exhibit E - Approximate Cost For Landscape Improvements

In Witness whereof, the parties hereto have executed with this Amendment effective the 5th day February year written and approved.

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first above written.



City of Fort Lauderdale
a municipal corporation

State of Florida
Department of Transportation

By: _____
Chairperson/Mayor/Manager

By: [Signature]
Director of Transportation Development

Attest: _____ (SEAL)
Clerk

Attest: [Signature] (SEAL)
Executive Secretary

Legal Review

Attorney Date

Legal Review
[Signature] 2/4/2014
Office of the General Counsel Date

See Attached

DISTRICT FOUR (4) AMENDMENT NUMBER SIX (6) TO THE STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION AND CITY OF FORT LAUDERDALE INCLUSIVE
LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT

CITY OF FORT LAUDERDALE


CITY OF FORT LAUDERDALE, a municipal
corporation of the State of Florida:

By 
JOHN P. "JACK" SEILER, Mayor


By 
LEE R. FELDMAN, City Manager

(CORPORATE SEAL)

ATTEST:


JONDA K. JOSEPH, City Clerk

Legal Review


Robert B. Dunekel
Assistant City Attorney

SECTION No.: 860500
FM No.: 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT A

LANDSCAPE IMPROVEMENTS LIMITS AND MAINTENANCE BOUNDARIES AND LOCATION MAP

I. PROJECT LOCATION:

State Road A1A from N.E. 14th Court (M.P. 3.334) to just north of N.E. 18th Street (M.P. 4.322)

II. INCLUSIVE LIMITS OF LANDSCAPE IMPROVEMENTS MAINTENANCE FOR THIS PROJECT:

State Road A1A:

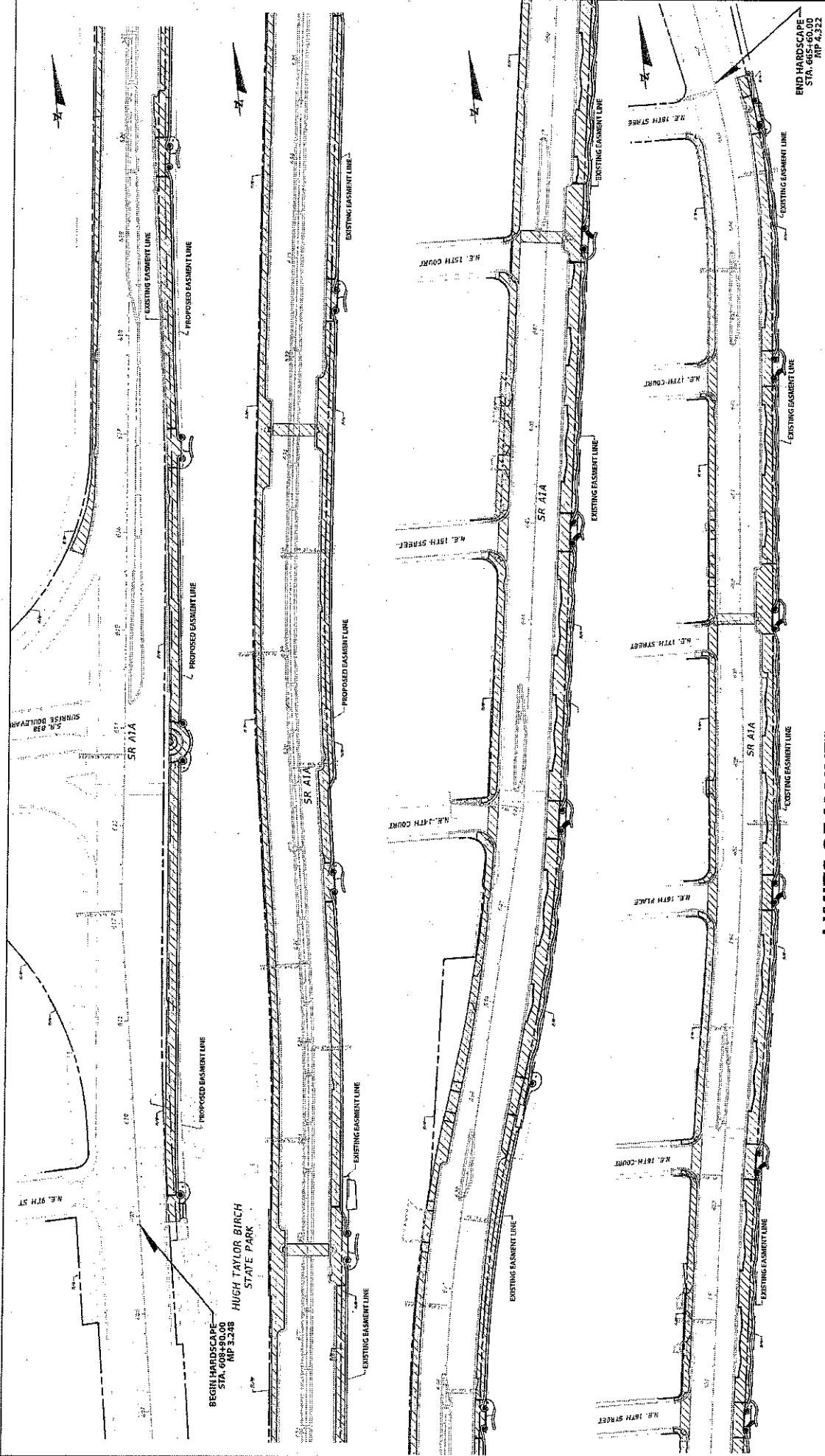
Project Located In North Fort Lauderdale Beach Area (Section 86050000):
(M.P. 2.039) (south of Poinsettia Street) to (M.P. 6.410) (Flamingo Drive)

III. MAINTENANCE LIMITS:

State Road A1A from N.E. 9th Street (M.P. 3.248) to just north of N.E. 18th Street (M.P. 4.322)

***All limits of the original agreement and amendments shall apply**

Please See Attached



STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
 FPI 433688-4-52-01

LIMITS OF MAINTENANCE PLAN
SR A1A
BROWARD COUNTY

LIMITS OF MAINTENANCE
BY CITY OF FORT LAUDERDALE

SECTION No.: 860500
FM No.: 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

The DEPARTMENT agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: **Keith and Schnars, PA**
Bruce L. Reed, RLA 0001479

Dated: December 4, 2013

Sheets: LD 1-32

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 433688-4-52-01

BROWARD COUNTY (86050)

STATE ROAD NO. A1A

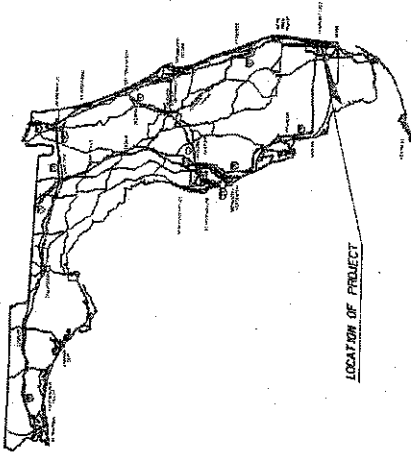
LANDSCAPE PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	TABULATION OF QUANTITIES
LD-3	HARDSCAPE NOTES
LD-4 TO LD-6	HARDSCAPE DETAILS
LD-7	SHEET LAYOUT
LD-8 TO LD-21	LANDSCAPE LAYOUT
LD-22	IRRIGATION PLAN
LD-23 TO LD-32	IRRIGATION PLAN

CONSTRUCTION CONTRACT NO.



LANDSCAPE SHOP DRAWINGS
TO BE SUBMITTED TO:
BRUCE K. REED, R.L.A.
SEITH AND SCHWARTZ, P.A.
6650 NORTH ANDREWS AVE
P.O. BOX 1000
LAUDERDALE, FL 33308
(954) 776-3896

PLANS PREPARED BY:
KEITH AND SCHNARS, P.A.
6650 N. Andrews Ave.
P.O. Box 1000
Lauderdale, FL 33308-2932

CERTIFICATE OF AUTHORIZATION NO. 1337
NEWBOR NOTIFICATION NO. 59-406-31F
CONTRACT NO. C-5862

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

BIDDABILITY SUBMITTAL
NOVEMBER 2013

KEY SHEET	REVISIONS
DATE	DESCRIPTION

LANDSCAPE PLANS
SUBMITTED FOR RECORD

R.L.A. NO. 100009

FISCAL YEAR	SHEET NO.
14	14

FDOT PROJECT MANAGER: SCOTT PETERSON, PE

NOTICE: THE ORIGINAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-101, F.A.C.

TABLULATION OF QUANTITIES

PAY ITEM NO.	PAY ITEM DESCRIPTION	SHEET NUMBERS																				TOTAL	TOTAL THIS SHEET				
		LD-8	LD-9	LD-10	LD-11	LD-12	LD-13	LD-14	LD-15	LD-16	LD-17	LD-18	LD-19	LD-20	LD-21	LD-22	LD-23	LD-24	LD-25	LD-26	LD-27						
526-1	PATTERNED FINEBENT ASPHALT	0	0	0	58	0	57	0	43	45	135	15	0	0	0	0	0	0	0	0	0	1185	1000	1875	1185	514	
526-1-1	PAVERS ARCHITECTURAL ROADWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	58	0	57	0	43	45	135	15	0	0	0	0	0	0	0	0	0	1185	1000	1875	1185	514	

IRRIGATION TABLULATION OF QUANTITIES

PAY ITEM NO.	PAY ITEM DESCRIPTION	SHEET NUMBERS														TOTAL	TOTAL THIS SHEET									
		LD-27	LD-28	LD-29	LD-30	LD-31	LD-32	LD-33	LD-34	LD-35	LD-36	LD-37	LD-38	LD-39	LD-40											
900-20	IRRIGATION SYSTEM - 1 INCH WATER METERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
901-1-1	IRRIGATION SCHEDULE 2 IN DIAMETER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
901-1-2	IRRIGATION SCHEDULE 4 IN DIAMETER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PAY ITEM NOTES:

- 526-1-1 PAVERS, ARCHITECTURAL ROADWAY
- A) INCLUDES CONCRETE HEADER
- B) INCLUDES TESTING
- C) INCLUDES SEALING

DATE: 12/15/15
 PROJECT: 433868-4-52-G1

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	PROJECT NO. 433868-4-52-G1	SHEET NO. LD-2
CONTRACT NO. 433868-4-52-G1	COUNTY BROWARD	TITLE TABULATION OF QUANTITIES

2017 F.A.C. 59.05-B(1) (12/15/15)

PAVER NOTES

- 1) CERTIFICATION:
BEFORE THE PRE-CONSTRUCTION MEETING, SUBMIT THE FOLLOWING CERTIFICATION:
A) CERTIFIED CONCRETE PAVEMENT INSTALLER, BY THE INTERLOCKING CONCRETE PAVING INSTITUTE
- 2) ITEMIZED COSTS:
BEFORE THE PRE-CONSTRUCTION MEETING, SUBMIT A UNIT COST BREAKDOWN FOR EACH ITEM OF WORK.
- 3) MATERIALS:
NEW, UNUSED AND SUBJECT TO INSPECTION AND APPROVAL.
- 3-1/8" THICK PAVERS: CONFORMING TO ASTM C 1272, TYPE F, APPLICATION PX, 10,000 PSI MINIMUM AVERAGE COMPRESSIVE STRENGTH, 6% MAXIMUM WATER ABSORPTION.
- 4) SAMPLES:
BEFORE THE PRE-CONSTRUCTION MEETING, SUBMIT FOR REVIEW THE MANUFACTURERS PRODUCT SHEETS AND SAMPLES OF:
A) PAVERS
B) POLYMERIC JOINTING SAND
C) SOLVENT BASED SEALER
- 5) DELIVER AN ADDITIONAL 10 SF OF EACH OF THE SPECIFIED PAVERS IN THE SPECIFIED COLOR MIX TO THE CITY OF FORT LAUDERDALE.
- 6) SUBGRADE DENSITY TESTING:
BEFORE INSTALLING THE LIMEROCK SUBBASE, PERFORM DENSITY TESTS ON THE SUBGRADE AT EACH SEPARATE PAVEMENT INSTALLATION AREA AND SUBMIT TEST RESULTS.
- 7) SUBBASE DENSITY TESTING:
BEFORE INSTALLING THE SAND BEDDING COURSE, PERFORM DENSITY TESTS ON THE SUBBASE AT EACH SEPARATE PAVEMENT INSTALLATION AREA AND SUBMIT TEST RESULTS.
- 8) LIMEROCK BASE COURSE APPROVAL
BEFORE INSTALLING THE SAND BEDDING COURSE, REQUEST APPROVAL OF THE LIMEROCK BASE COURSE.
SURFACE TOLERANCE REQUIREMENT IS PLUS/MINUS 3/8 INCH OVER A 10 FOOT STRAIGHT EDGE.
- 9) SAND BEDDING COURSE:
CONFORM TO ASTM C 33, FREE OF ORGANIC MATERIALS, WITH 100 PERCENT PASSING THROUGH A 3/8 INCH SIEVE SIZE AND A MAXIMUM OF 1 PERCENT PASSING A NUMBER 200 SIEVE SIZE. (COMMONLY KNOWN AS MANUFACTURED CONCRETE SAND OR CONCRETE SCREEDINGS). DO NOT USE MASON SAND.
- 10) PAVEMENT LAYOUT APPROVAL AND INSTALLATION:
FOR EACH SEPARATE PAVEMENT INSTALLATION AREA, REQUEST DESIGN APPROVAL OF THE LAYOUT AND DISTRIBUTION OF THE PAVEMENT COLORS.
MAXIMUM JOINT LINE TOLERANCE IS 1/2 INCH OVER 50 FEET.

- 11) PAVEMENT COMPACTOR:
VIBRATE PAVERS INTO THE SAND BEDDING COURSE USING A PLATE COMPACTOR WITH A RUBBER BASE CAPABLE OF 5000 POUNDS COMPACTOR FORCE.
- 12) POLYMERIC JOINTING SAND:
APPLY DRY POLYMERIC JOINT SAND OVER DRY PAVERS AND SWEEP INTO THE JOINTS. PER MANUFACTURERS INSTRUCTIONS. APPLY WATER TO HARDEN THE POLYMERIC JOINT SAND PER MANUFACTURERS INSTRUCTIONS.
- 13) SEALING:
BEFORE EACH SEALING COAT, CLEAN PAVERS AND FILL JOINTS.
APPLY 4 COATS OF SOLVENT-BASED SEALER ALLOWING A MINIMUM OF 48 HOURS BETWEEN COATS.

PATTERNED/TEXTURED PAVEMENT NOTES

- 1) CERTIFICATION:
THE APPLICATOR SHALL HAVE LEAD PERSONNEL ON THE PROJECT THAT HAVE BEEN TRAINED BY MANUFACTURER WITHIN THE PREVIOUS 12 MONTHS OF STARTING THE PROJECT. AT LEAST ONE OF THESE TRAINED PERSONNEL SHALL BE ON SITE DURING THE APPLICATION. BEFORE THE PRE-CONSTRUCTION MEETING, SUBMIT CERTIFICATION TO THE ENGINEER.
- 2) SAMPLES AND MOCKUPS:
SUBMIT FOR REVIEW THE MANUFACTURERS PRODUCT SHEETS AND SAMPLES.
- 3) EXISTING ASPHALT:
FILL HOLES OR STAINS IN THE ASPHALT GREATER THAN 3/4 INCH IN DEPTH AND GREATER THAN 1.5 SQUARE FEET IN AREA IN RELATION TO THE SURROUNDING ASPHALT. NOTIFICATION IS REQUIRED OF ASPHALT AREAS THAT DO NOT MEET THE PRE-APPLICATION REQUIREMENTS.
- 4) MATERIAL COMPOSITION:
A THERMO-SET TWO PART 100 PERCENT EPOXY BINDER AND STONE AGGREGATE SEEDED ONTO THE WET BINDER.
- 5) THERMO-SET BINDER THICKNESS:
0.50 INCH MINIMUM AVERAGE THICKNESS.
- 6) STONE AGGREGATE:
0.04 TO 0.12 INCHES NOMINAL SIZE WITH 75 PERCENT BY WEIGHT IN RANGE.
- 7) STONE AGGREGATE COVERAGE:
1.25 POUNDS PER SQUARE FOOT EMBEDDED INTO BINDER.
- 8) REQUEST CAD DRAWINGS FROM THE LANDSCAPE ARCHITECT FOR THE MANUFACTURE OF THE STENCIL PATTERN.

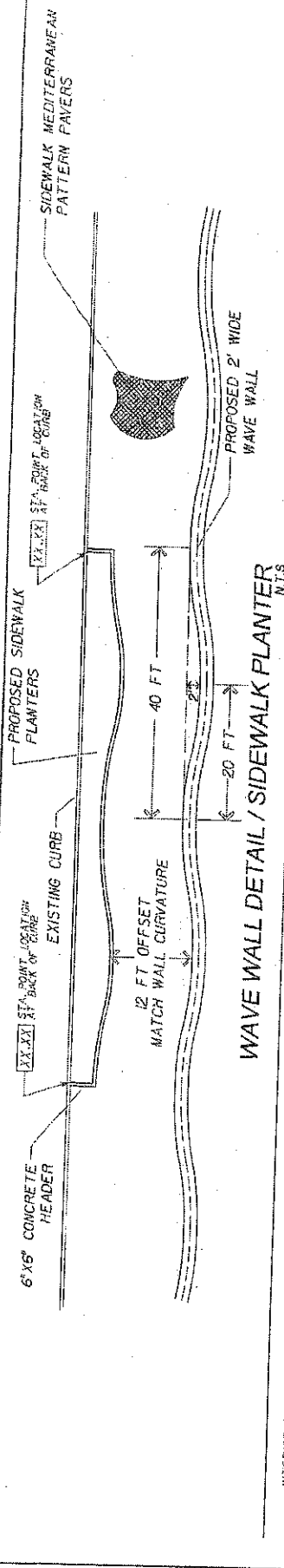
DATE	BY	REVISIONS	DESCRIPTION

UNIVERSITY OF FLORIDA
KEITH and SCHNARS, P.A.
 805 N. ANDERSON AVE., SUITE 200
 GAINESVILLE, FL 32609-4400
 P: 352-336-1111
 F: 352-336-1112

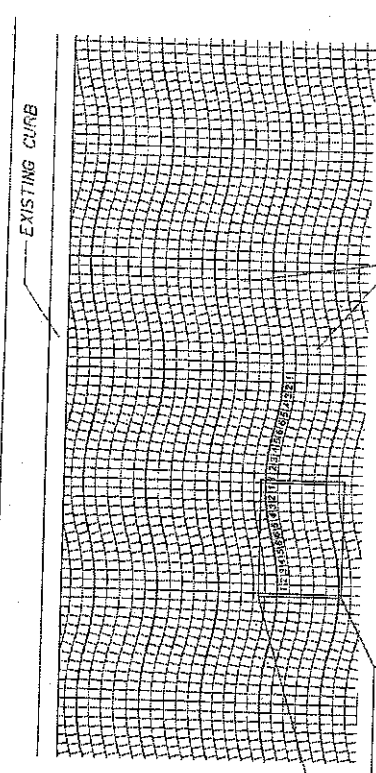
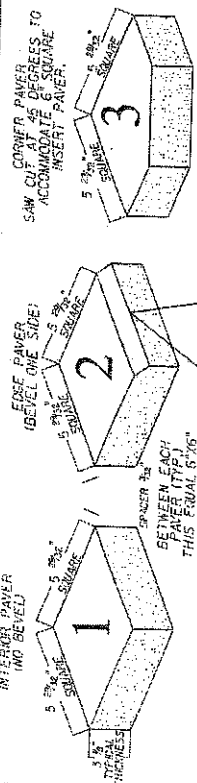
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD ID: A1A
 COUNTY: BROWARD
 PROJECT NO: 433688-4-52-01
 DRAWING NO: 433688-4-52-01

HARDSCAPE NOTES

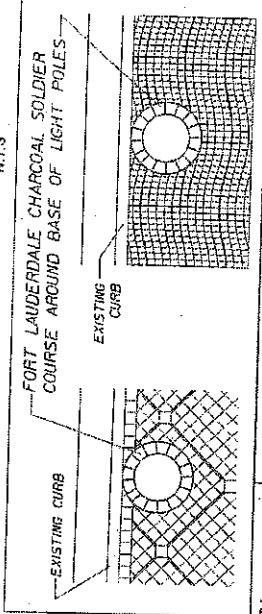
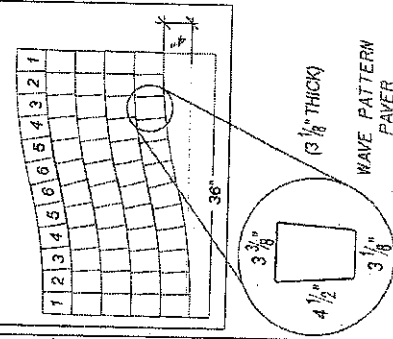
SHEET NO. 10-3



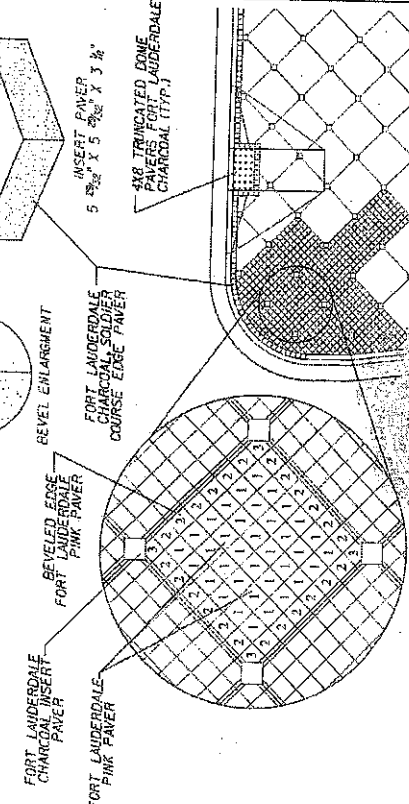
WAVE WALL DETAIL / SIDEWALK PLANTER
 N.T.S.



WAVE PATTERN PAVER DETAIL
 N.T.S.



MEDITERRANEAN PATTERN PAVER DETAIL
 N.T.S.



DATE	BY	REVISION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. PROJECT NO. 43362B-4-52 (1)	SHEET NO. LD-4
			N/A BROWARD	
			43362B-4-52 (1)	
			KEITH and SCHNARS, P.A. 3000 AMERICAN BLVD., SUITE 200, FORT LAUDERDALE, FL 33309-2000	
			PROJECT NO. 43362B-4-52 (1)	

CONCRETE PAVERS 3 1/8 INCHES THICK
 SAND BEDDING COURSE: 1 INCH MANUFACTURED
 CONCRETE SAND, TYP. 100 NOT USE MASON SAND
 SUBBASE: 4 INCH CONCRETE AT DRIVEWAYS
 6 INCH CONCRETE AT SIDEWALKS
 SUBGRADE: 4 INCH MINIMUM COMPACTED L.O.O.F. OF THE
 MAXIMUM PROCTOR PER AASHTO OF T-99C1
 1.5 PERCENT
 15 PERCENT
 SLOPE



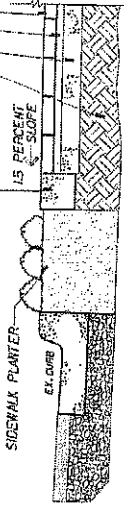
PAVER SIDEWALK SECTION
 (WEST SIDE OF A1A)
 N.T.S.

CONCRETE PAVERS 3 1/8 INCHES THICK
 SAND BEDDING COURSE: 1 INCH MANUFACTURED
 CONCRETE SAND, TYP. 100 NOT USE MASON SAND
 SUBBASE: 4 INCH MINIMUM LIME-RICH COMPACTED
 TO 98% OF THE MODIFIED PROCTOR PER AASHTO T-99C1
 SUBGRADE: 4 INCH MINIMUM COMPACTED L.O.O.F. OF THE
 MAXIMUM PROCTOR PER AASHTO OF T-99C1
 1.5 PERCENT
 15 PERCENT
 SLOPE

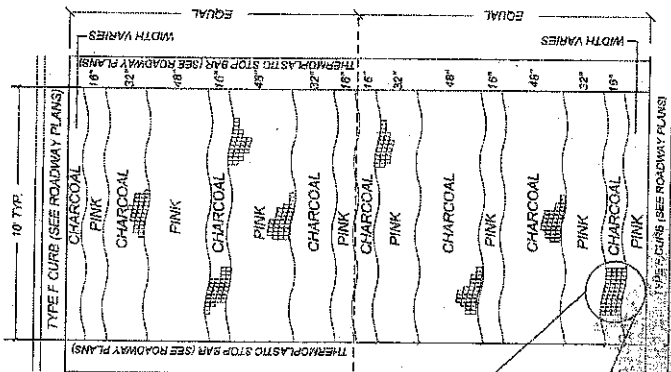
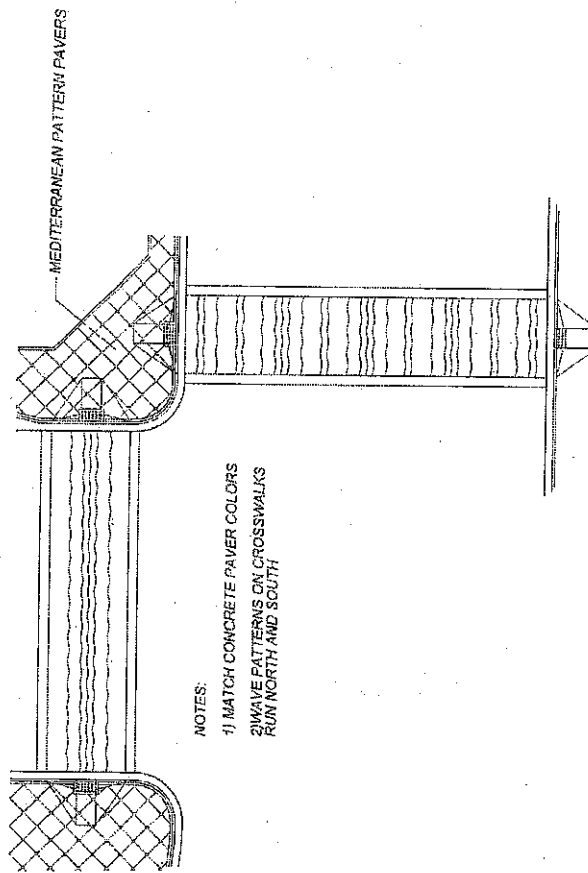


PAVER SIDEWALK SECTION
 (EAST SIDE OF A1A - STA. 608+90.00 TO STA. 639+19.00)
 N.T.S.

CONCRETE PAVERS 3 1/8 INCHES THICK
 SAND BEDDING COURSE: 1 INCH MANUFACTURED
 CONCRETE SAND, TYP. 100 NOT USE MASON SAND
 SUBBASE: 4 INCH CONCRETE SIDEWALK
 SUBGRADE: 4 INCH MINIMUM COMPACTED L.O.O.F. OF THE
 MAXIMUM PROCTOR PER AASHTO OF T-99C1
 6" X 6" DEEP CONCRETE HEADER
 SIDEWALK PLANTER
 EX. CURB
 1.5 PERCENT
 SLOPE



PAVER SIDEWALK SECTION
 (EAST SIDE OF A1A - STA. 639+19.00 TO STA. 655+60.00)
 N.T.S.



NOTES:
 1) MATCH CONCRETE PAVER COLORS
 2) WAVE PATTERNS ON CROSSWALKS
 RUN NORTH AND SOUTH

PATTERNED/TEXTURED PAVEMENT
 CROSSWALK DETAIL
 N.T.S.

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. A1A
 COUNTY BROWARD
 FINANCIAL PROJECT ID: 433558 4-52-D1

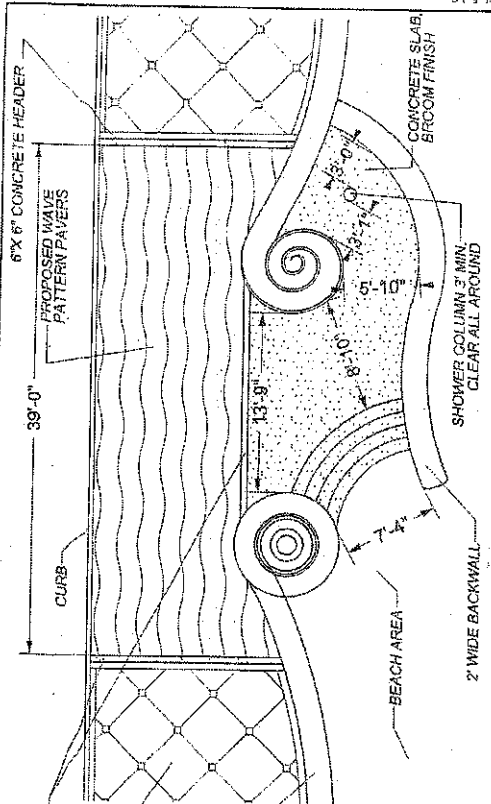
KEITH and SCHNAPS P.A.
 600 N. AUSTIN AVE. #1 LAKELAND, FL 33803-2328 (817) 797-6800

NO.	DESCRIPTION	DATE

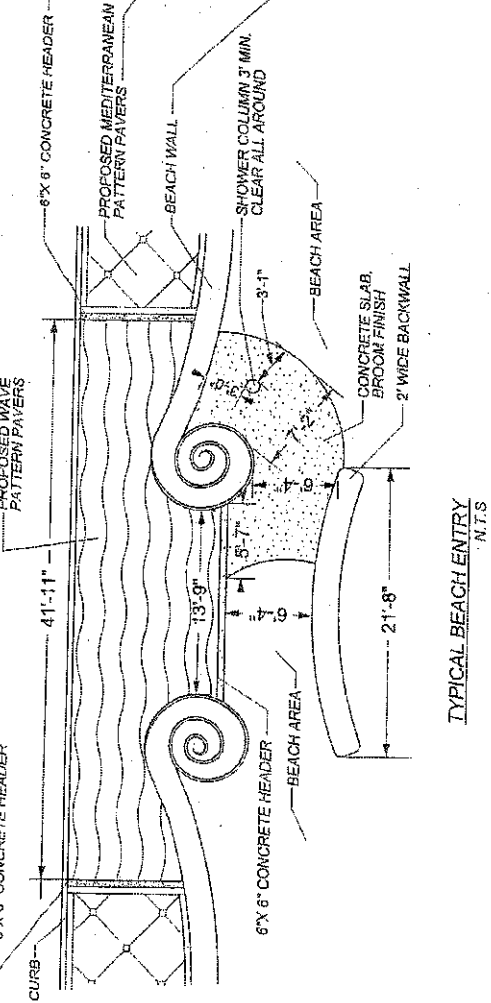
HARDSCAPE DETAILS

SHEET NO. LD-5

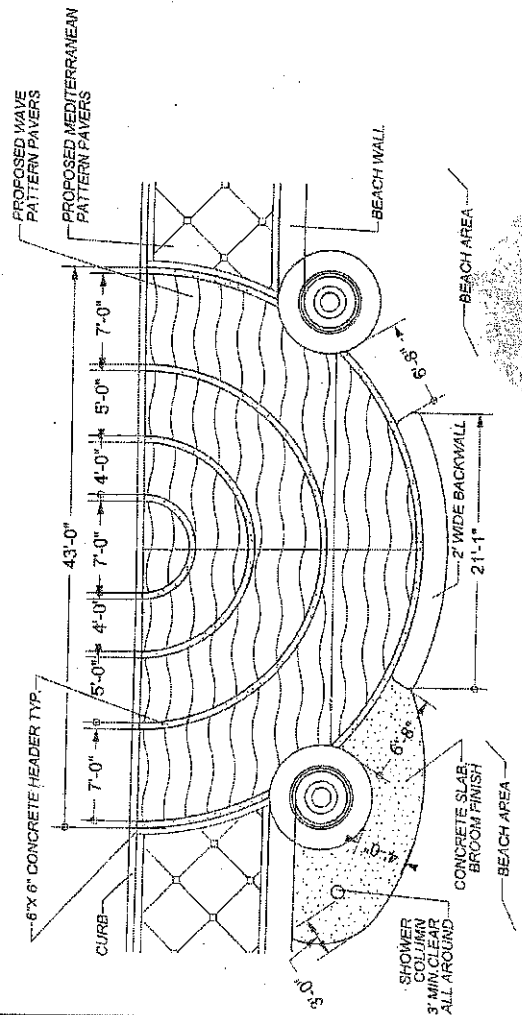
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 6100-4-01, F.A.C.



TYPICAL ENTRY ALONG SHEET PILING
N.T.S.



TYPICAL BEACH ENTRY
N.T.S.



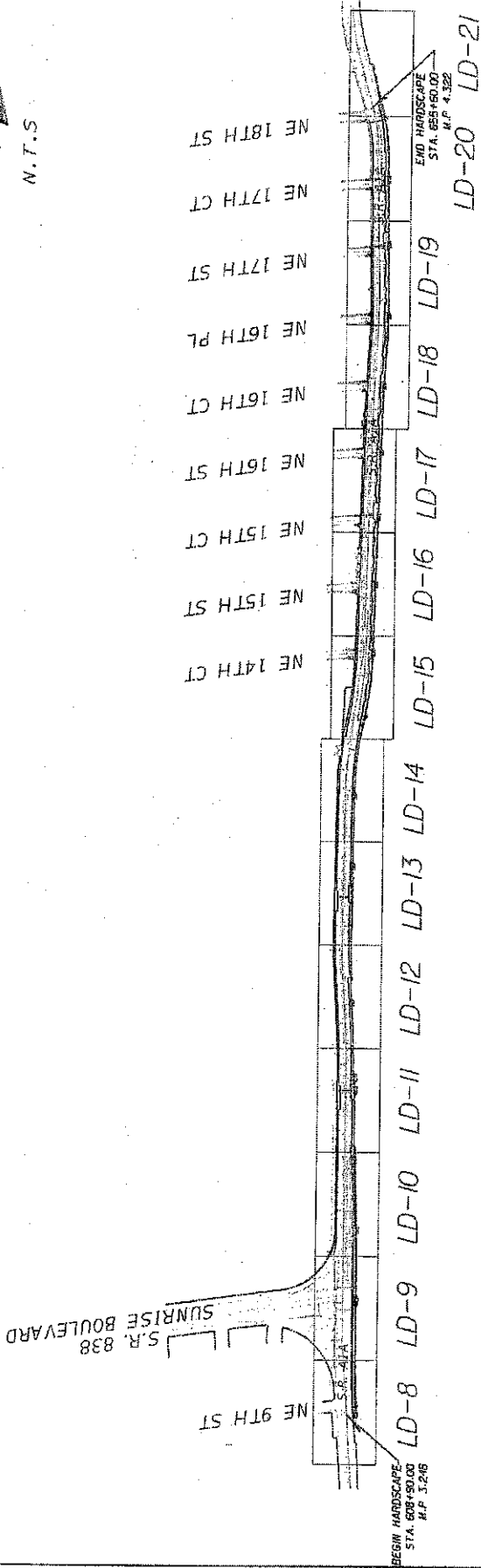
BEACH ENTRY AT SUNRISE BLVD
N.T.S.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		PROJECT NO. 433688-4-52-01	
ROAD NO. A1A		COUNTY BROWARD	
KETH and SCHNARS, P.A. 1101 N.W. 11th Street, Fort Lauderdale, Florida 33304-1101 Phone: (954) 571-1101			
DATE	DESCRIPTION	REVISIONS	SHEET NO.
			LD-6
HARDSCAPE DETAILS			

27-AUGUST-2008 10:58:00 AM



N.T.S

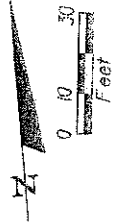


REVISIONS		DESCRIPTION		DATE		BY	

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO. 433659		PROJECT ID 433659-52-01	
COUNTY BROWARD		SHEET NO. LD-7	

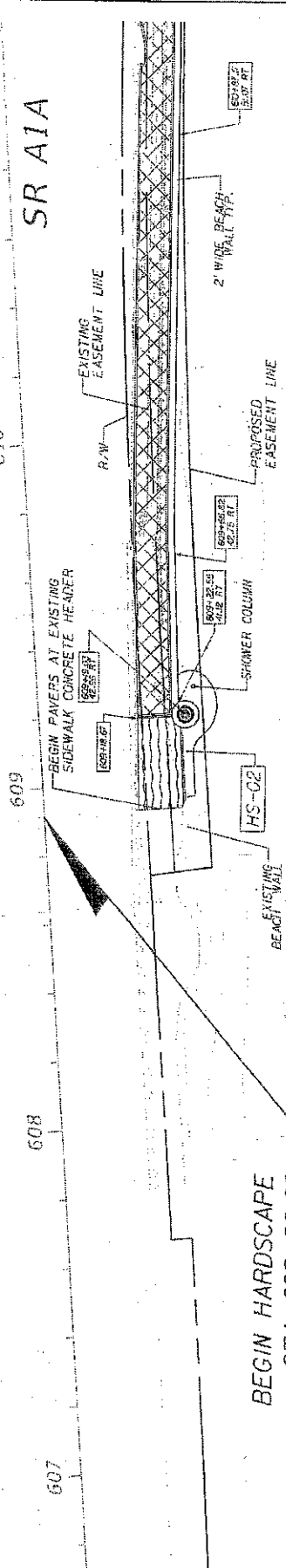
KEITH and SCHWAB P.A.		SHEET LAYOUT	
6000 N. UNIVERSITY BLVD., SUITE 100, BOCA RATON, FL 33433		DATE: 11/11/11	

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF. ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE ROAD UNLESS OTHERWISE SPECIFIED.



N.E. 9TH ST

SR A1A



BEGIN HARDSCAPE
STA. 608+90.00
M.P. 3.248

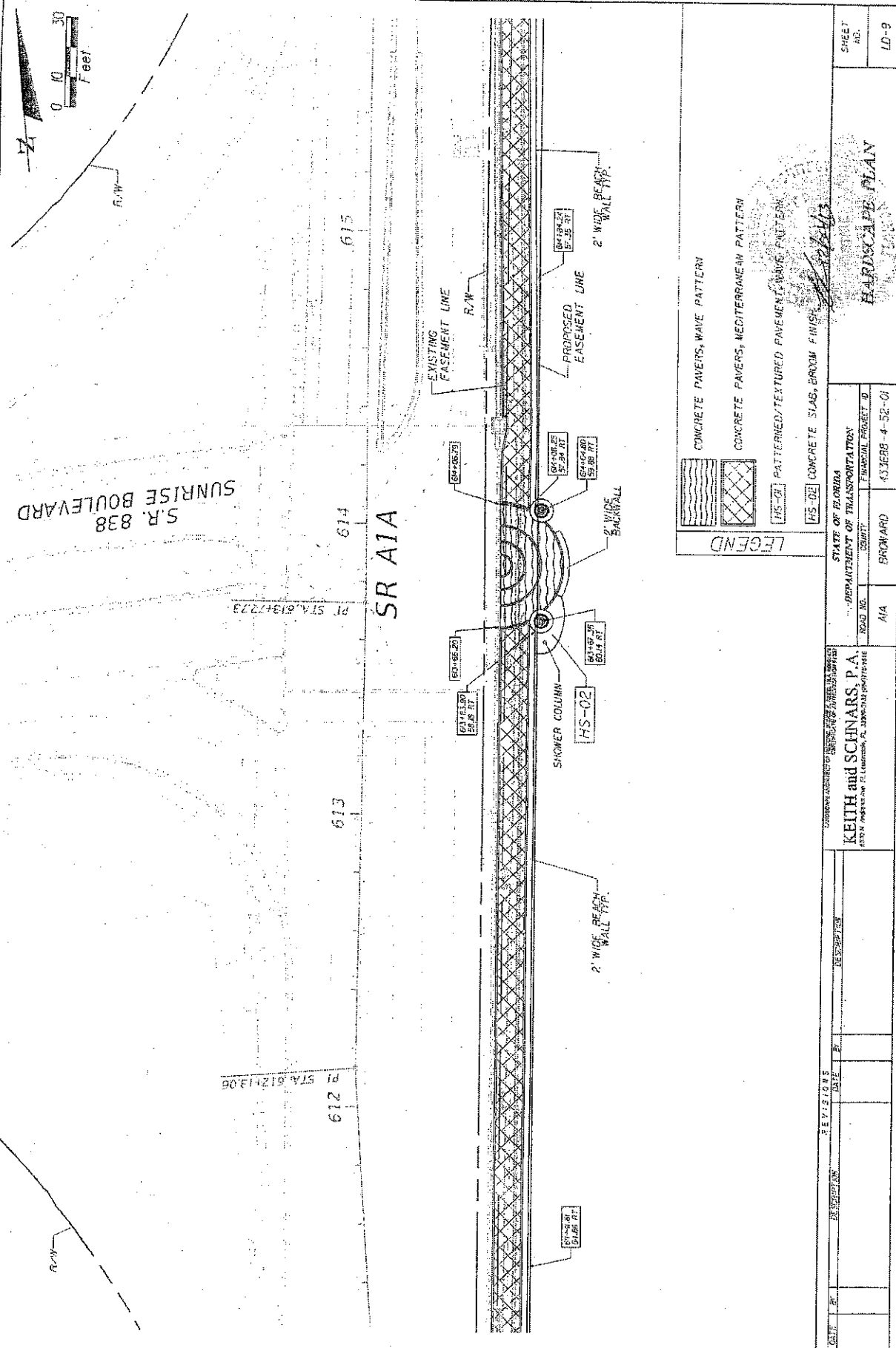
- LEGEND**
- CONCRETE PAVERS, WAVE PATTERN
 - CONCRETE PAVERS, MEDITERRANEAN PATTERN
 - PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
 - CONCRETE SLAB, BROOM FINISH

REVISIONS		DATE		BY	

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT NO. 43362B-4-52-01 CONTRACT NO. 43362B-4-52-01 DRAWING NO. H-101	SHEET NO. LD-8
--	-------------------

KEITH and SCHNARS, P.A. 8000 N.W. 11th Street, Suite 100 Fort Lauderdale, FL 33309	PROJECT NO. 43362B-4-52-01 CONTRACT NO. 43362B-4-52-01 DRAWING NO. H-101
--	--

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S.R. 838
SUNRISE BOULEVARD

LEGEND

- CONCRETE PAVERS, WAVE PATTERN
- CONCRETE PAVERS, MEDITERRANEAN PATTERN
- PATTERNED/TEXTURED PAVEMENT (WAVE PATTERN)
- CONCRETE SLAB, BROOM FINISH

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
 ROAD NO. A1A COUNTY BROWARD PROJECT # 43288-4-52-01

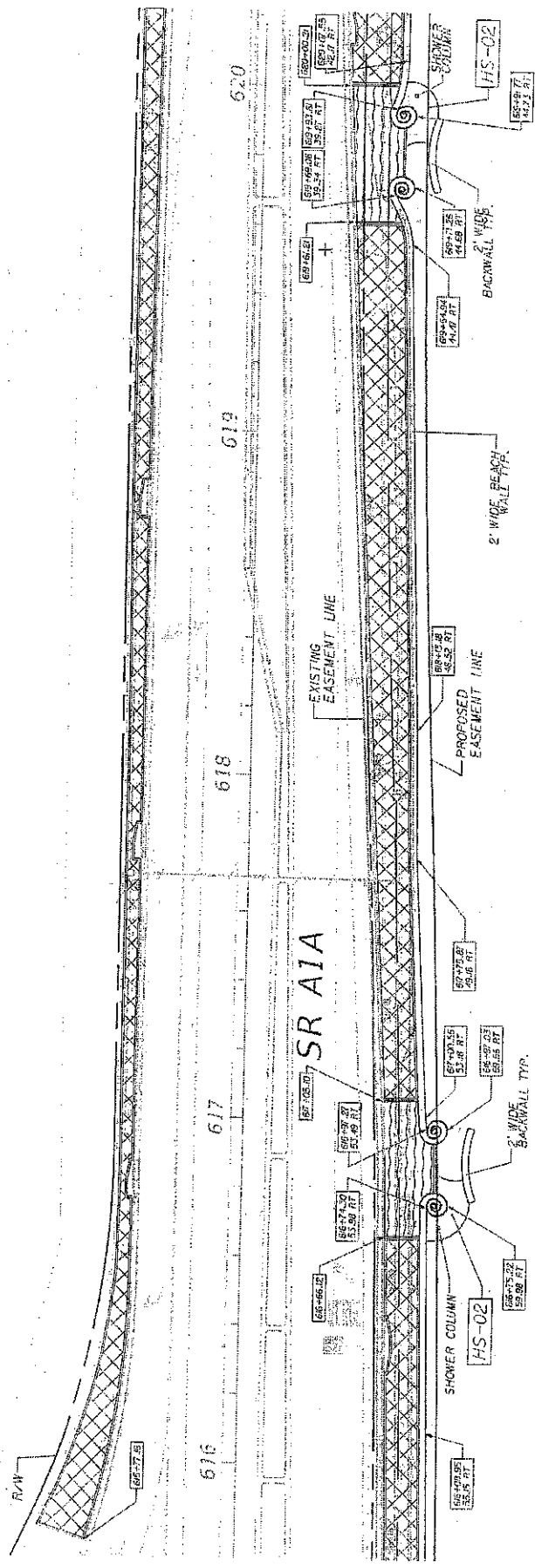
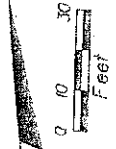
KEITH and SCHNARS, P.A.
 SURVEYING ENGINEERS
 10000 W. BIRCHWOOD BLVD., SUITE 100, BROWARD COUNTY, FL 33410

HARDSCAPE PLAN

SHEET NO. LD-9

NO.	DATE	DESCRIPTION

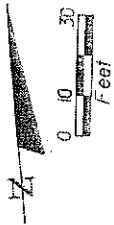
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE, SIGNED AND SEALED WHICH RISES FROM P.A.C.



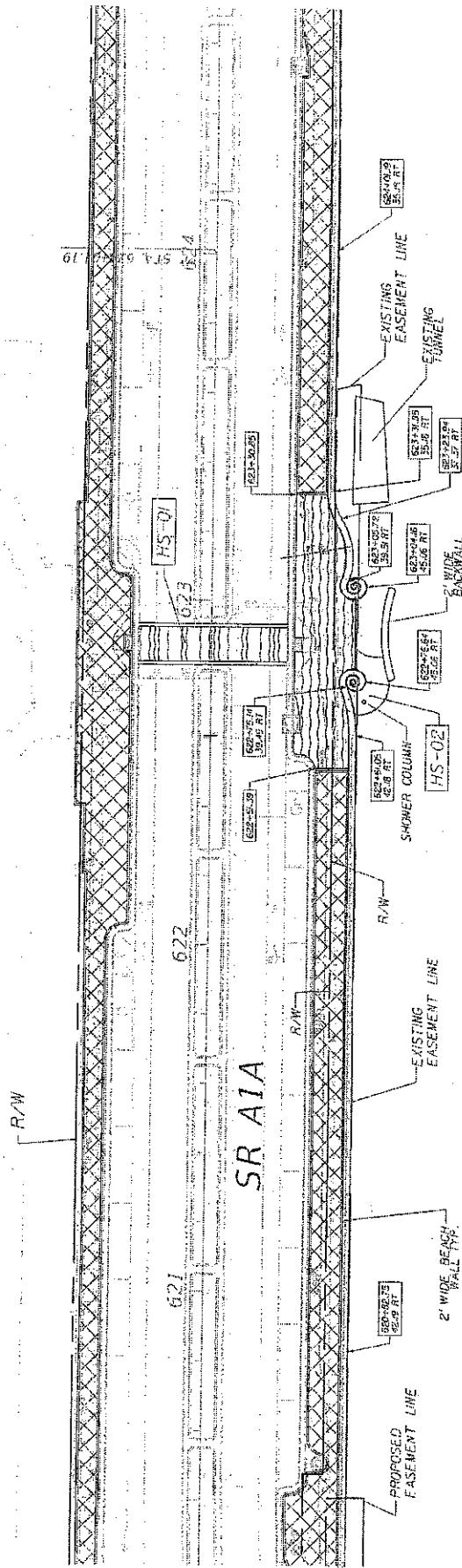
LEGEND

	CONCRETE PAVERS, WAVE PATTERN
	CONCRETE PAVERS, MEDITERRANEAN PATTERN
	PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
	CONCRETE SLAB, BROOM FINISH

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		PROJECT NO. 43362B-4-02-01	
ROAD NO. A1A		COUNTY BROWARD	
UNDER THE AUTHORITY OF BRUCE A. BROWN, GOV. KEITH and SCHNARS, P.A. 6800 N. JOHNS AVE., SUITE 100, FT. LAUDERDALE, FL 33309-3277 (954) 341-1100			
DATE	BY	REVISIONS	DATE
HARDSCAPE PLAN SHEET NO. LD-10		FILE NO. LD-10	



HUGH TAYLOR BIRCH STATE PARK

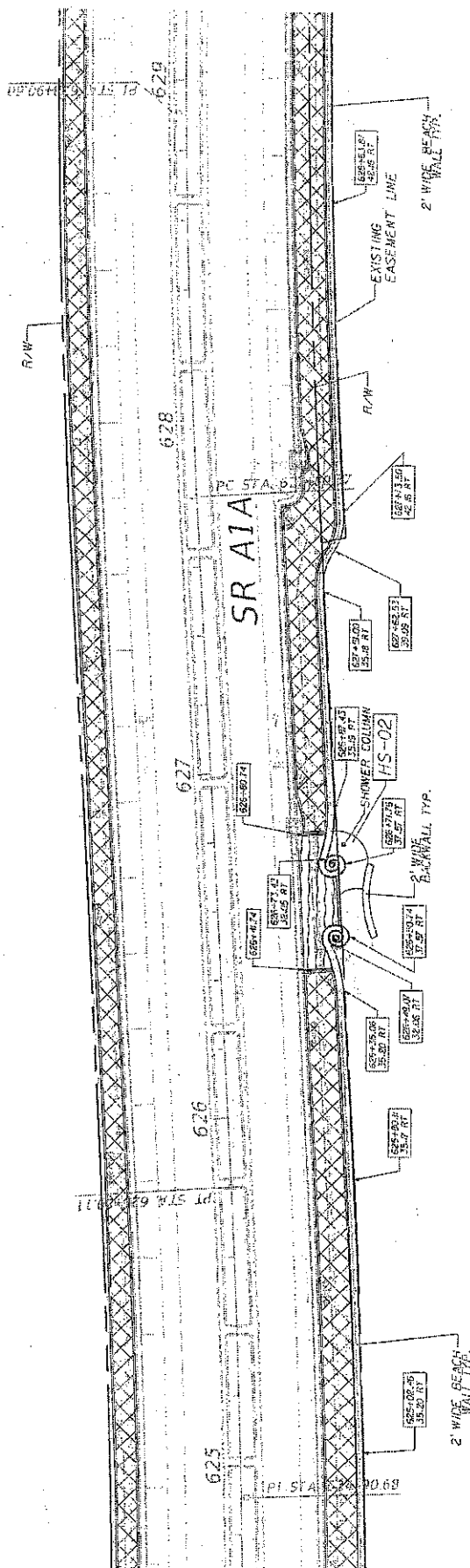
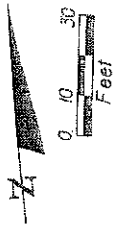


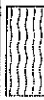

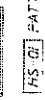
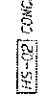
LEGEND

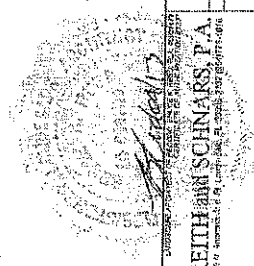
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	CONCRETE PAVERS, MEDITERRANEAN PATTERN
	PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
	CONCRETE SLAB, BROOM FINISH

STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID: 433628-4-5E-01		SHEET NO.: ID-11
ROAD NO.: A/A COUNTY: BROWARD	PROJECT NO.: 433628-4-5E-01	PROJECT NAME: HARDSCAPE PLAN
CONTRACTOR: KEITH and SCHNARS, P.A. 1000 N. UNIVERSITY AVE., SUITE 200, WEST PALM BEACH, FL 33411-4411		
REVISIONS:		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SHOWN AND SEALED UNDER RULE 61D0-1.001, F.A.C.

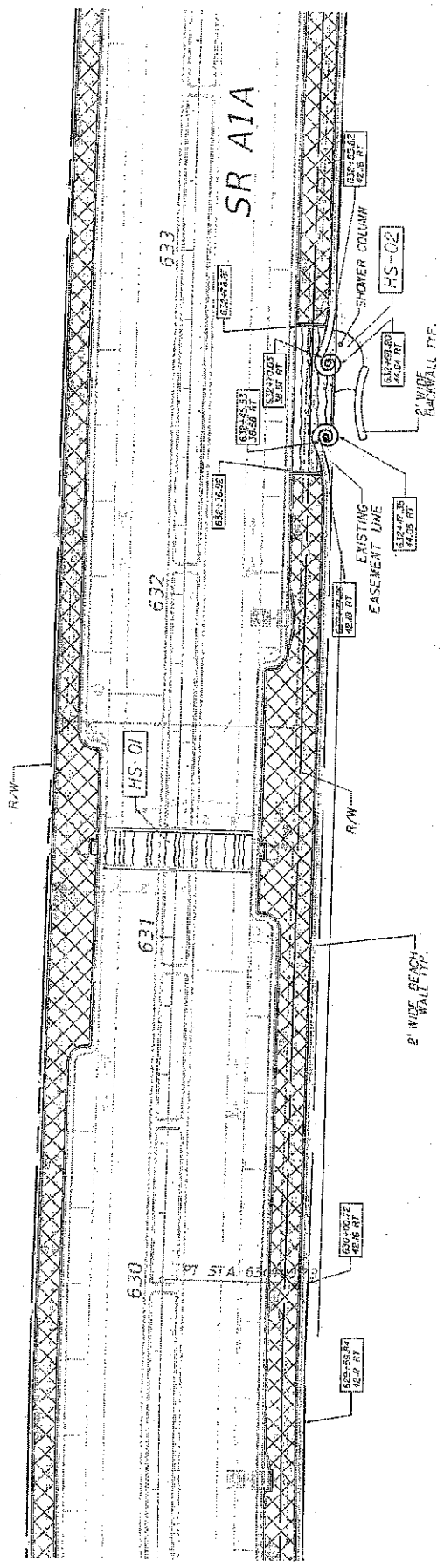
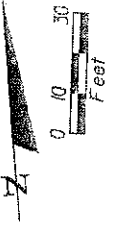


- LEGEND**
-  CONCRETE PAVERS, WAVE PATTERN
 -  CONCRETE PAVERS, MEDITERRANEAN PATTERN
 -  FS-01 PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
 -  HS-02 CONCRETE SLAB, BROOM FINISH



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		PROJECT NO. 433568-4-52-01	
ROAD NO. A1A	COUNTY BROWARD	ENGINEER PROJECT NO. 433568-4-52-01	SHEET NO. LD-12
SUBMITTED FOR REVIEW AND APPROVAL BY KEITH SCHNARS, P.E. <small>Professional Engineer, State of Florida, License No. 12456</small>		HARDSCAPE PLAN	
DATE	BY	DESCRIPTION	

NOTICE: THE SPECIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SHOWN AND REPRODUCED UNDER FILE NO. 433568-4-52-01.

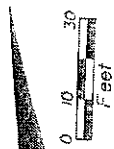


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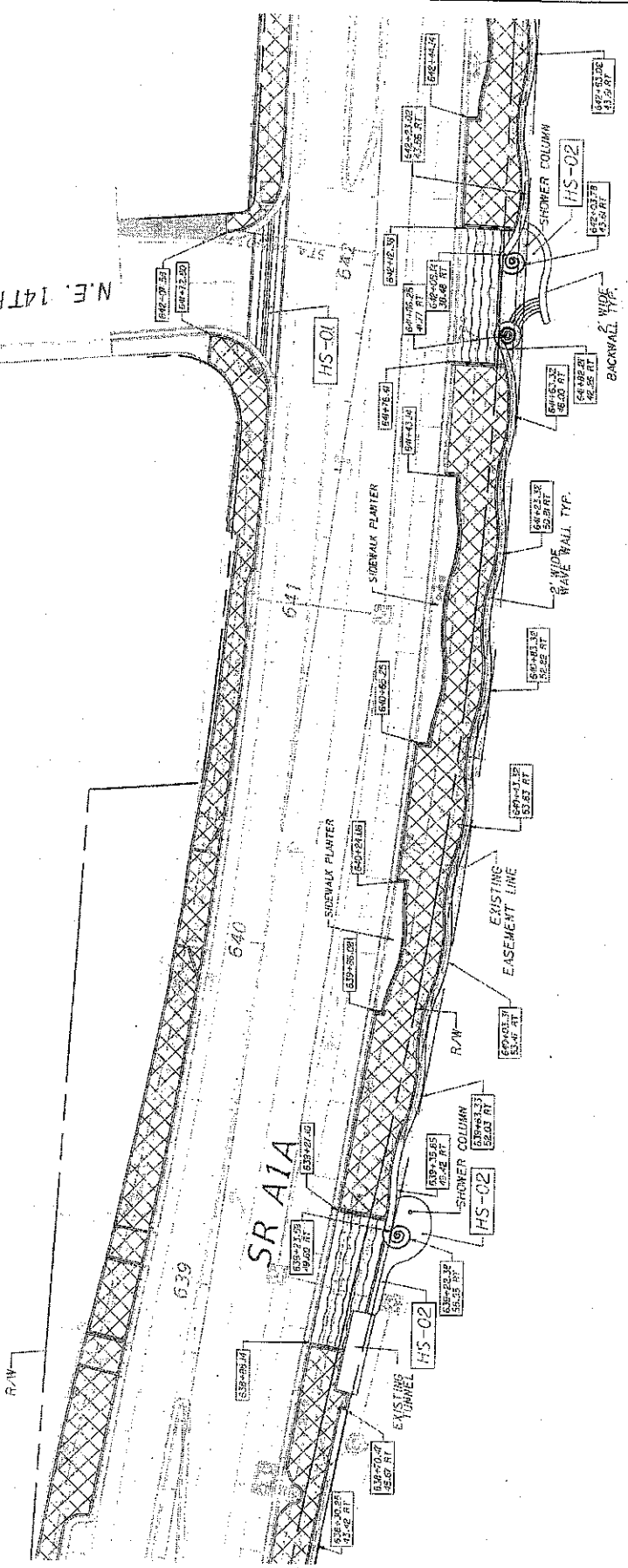
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	CONCRETE PAVERS, MEDITERRANEAN PATTERN
	[HS-01] PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
	[HS-02] CONCRETE SLAB, BROOM FINISH

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		PROJECT NO. 435685-4-62-01	
ROAD NO. AIA		BRIDGE NO. BROWARD	
DESIGNED BY KEITH and SCHNARS, P.A. 600 N. WASHINGTON ST. SUITE 1000 FT. LAUDERDALE, FL 33401		DRAWN BY [Signature]	
DATE	DATE	DATE	DATE
SHEET NO. LD-13		SHEET TOTAL 13	

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N.E. 14TH COURT



LEGEND

	CONCRETE PAVERS, WAVE PATTERN
	CONCRETE PAVERS, MEDITERRANEAN PATTERN
[HS-01]	PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
[HS-02]	CONCRETE SLABS, BROOK FINISH

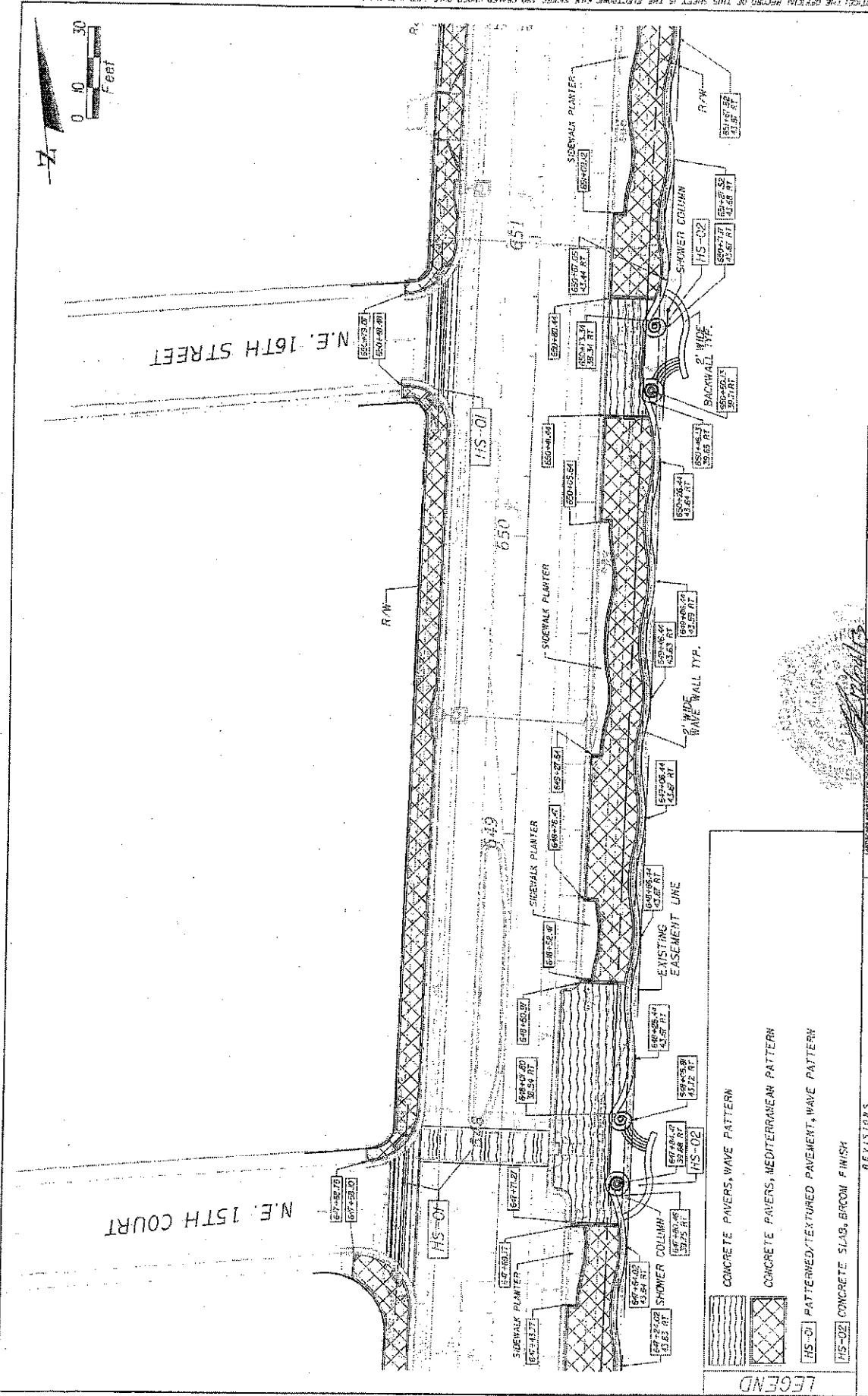
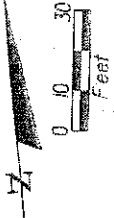
STATE OF FLORIDA	SHEET NO.	LD-19
DEPARTMENT OF TRANSPORTATION	PROJECT NO.	4316688-4-52-01
SECTION	FINANCIAL PROJECT ID	
A1A	BROWARD	

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
KEITH and SCHNARS, P.A.
 400 N. WINDYWAY, FT. LAUDERDALE, FL 33309-2701
 REGISTERED PROFESSIONAL ENGINEERS
 LICENSE NO. 12547
 12/15/13

DATE	BY	REVISIONS

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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SHOWN AND SEaled WHEN FILED 6:52 AM, 7/21/11.



LEGEND

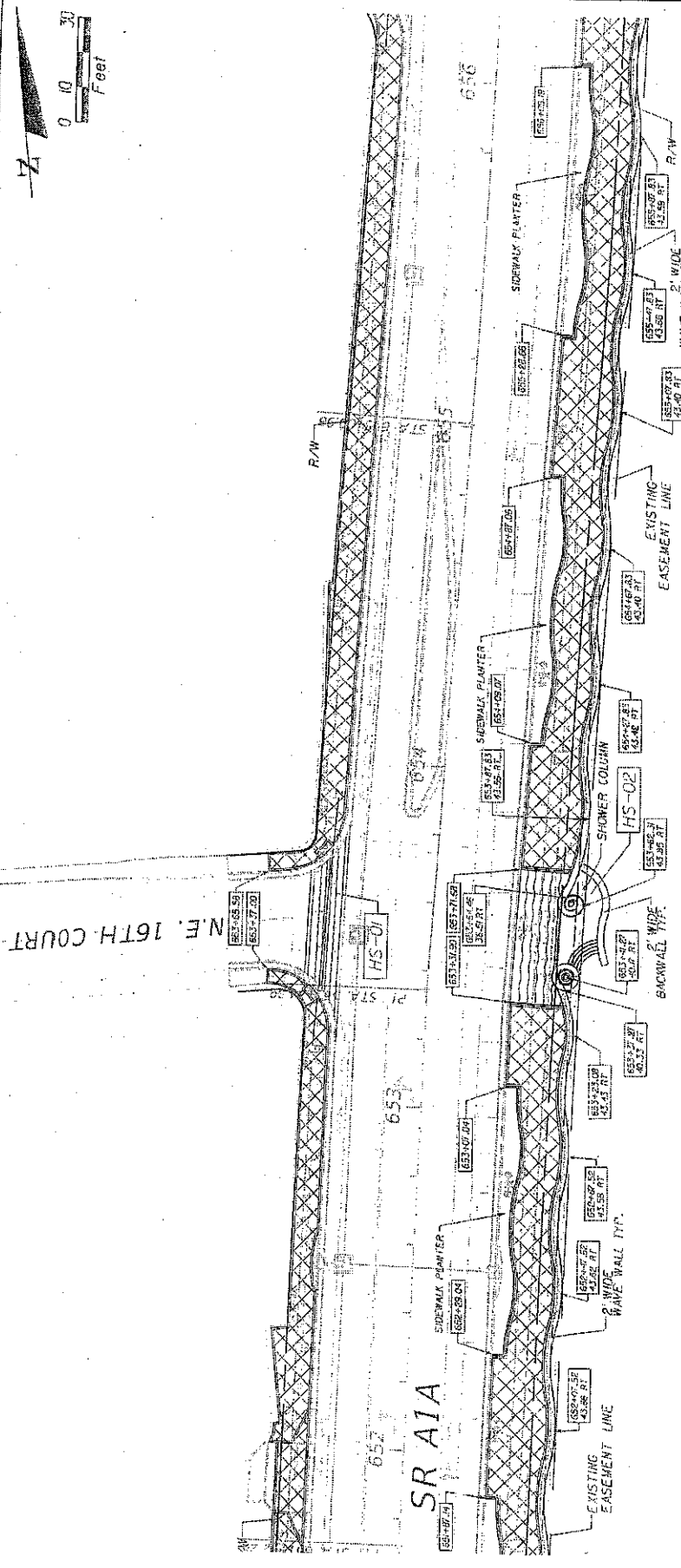
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[Symbol]	CONCRETE PAVERS, MEDITERRANEAN PATTERN
[Symbol]	PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
[Symbol]	CONCRETE SLAB, BROOM FINISH

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		PROJECT NO. 433686-4-52-09	
COUNTY DADE		PROJECT ID 433686-4-52-09	
DESIGNER KEITH and SCHNARS P.A. 1000 N. ANDERSON AVE., FT. LAUDERDALE, FL 33304-1000 PHONE: (954) 575-1111 FAX: (954) 575-1112		CLIENT AIA	
DATE 7/21/11		SHEET NO. 10-9	

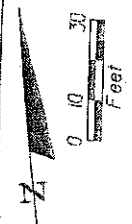
REVISIONS

NO.	BY	DATE	DESCRIPTION

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N.E. 16TH COURT



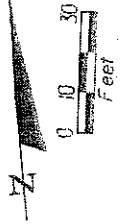
- LEGEND**
- CONCRETE PAVERS, WAVE PATTERN
 - CONCRETE PAVERS, MEDITERRANEAN PATTERN
 - HS-01 PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
 - HS-02 CONCRETE SLAB, BROOM FINISH



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION KEITH and SCHNARS, P.A. <small>6501A Jupiter Ave., Ft. Lauderdale, FL 33309-1401</small>		PROJECT # 4-3568--4-52-01	SHEET NO. LD-18
COUNTY BROWARD	AIA BREWARD	HARDSCAPE PLAN	
DATE 08/27/2018	REVISIONS 1. 08/27/2018	DRAWN BY [Signature]	

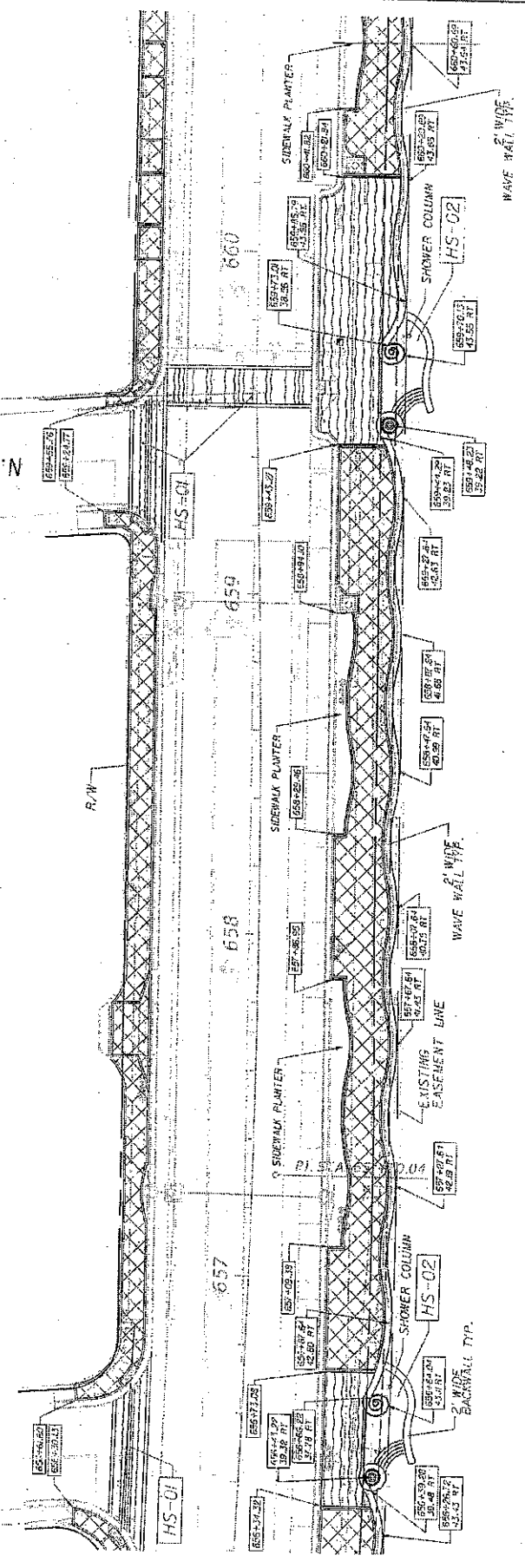
DATE PLOTTED: 08/27/2018 11:42:17 AM

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-8.01, F.S.



N.E. 17TH STREET

N.E. 16TH PLACE



LEGEND

- CONCRETE PAVERS, WAVE PATTERN
- CONCRETE PAVERS, MEDITERRANEAN PATTERN
- PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
- CONCRETE SLAB, BRO-N FINISH

DATE	REVISION	DESCRIPTION	DATE	BY	REVISION

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. A1A COUNTY ARCHWARD 433688-4-52-U

PROJECT NO. 433688-4-52-U

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

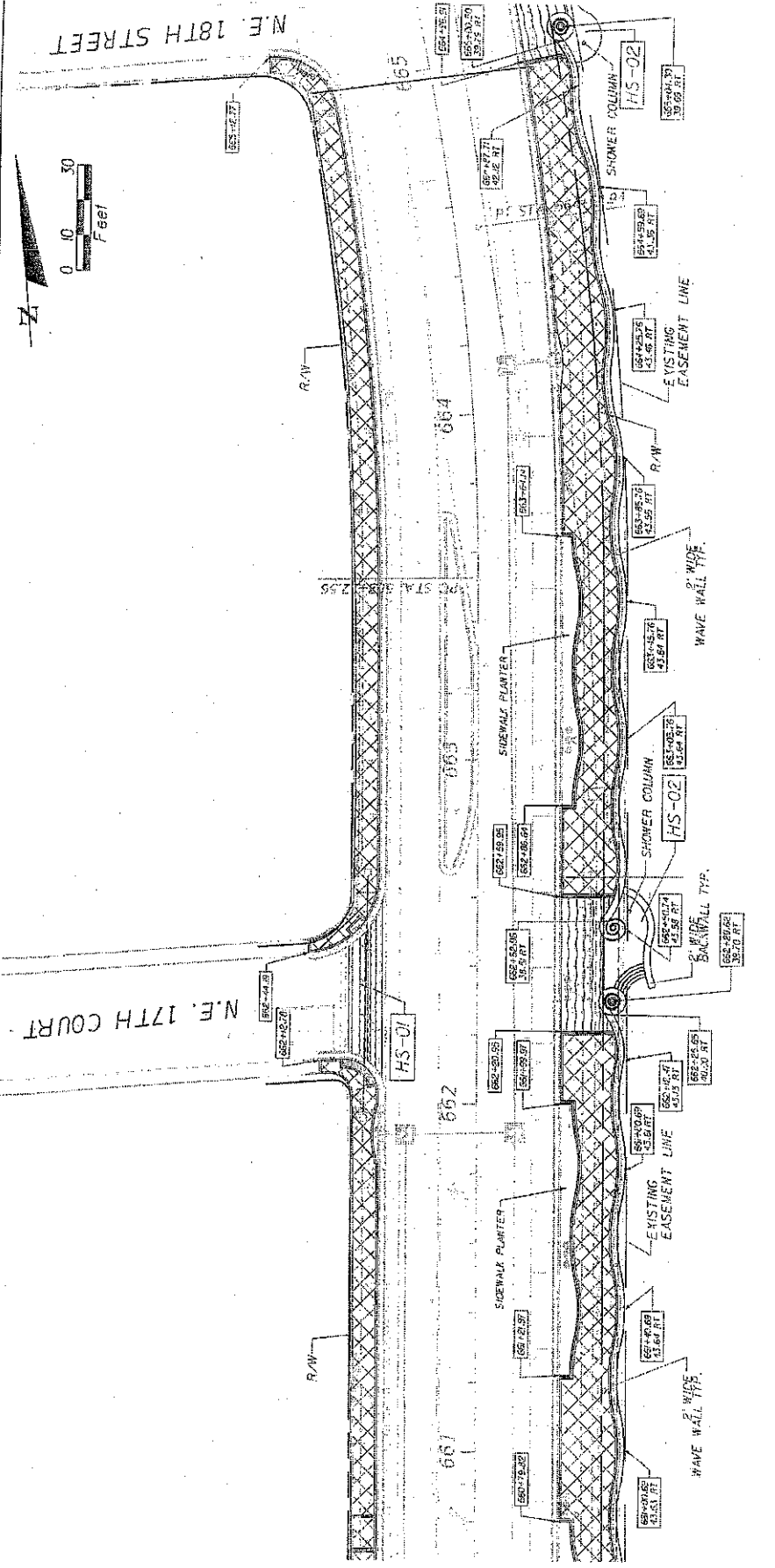
DATE: [Date]

SCALE: 1" = 10'-0"

SHEET NO. 10 OF 10

PROJECT TITLE: LANDSCAPE PLAN

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 600-12.01, F.S.



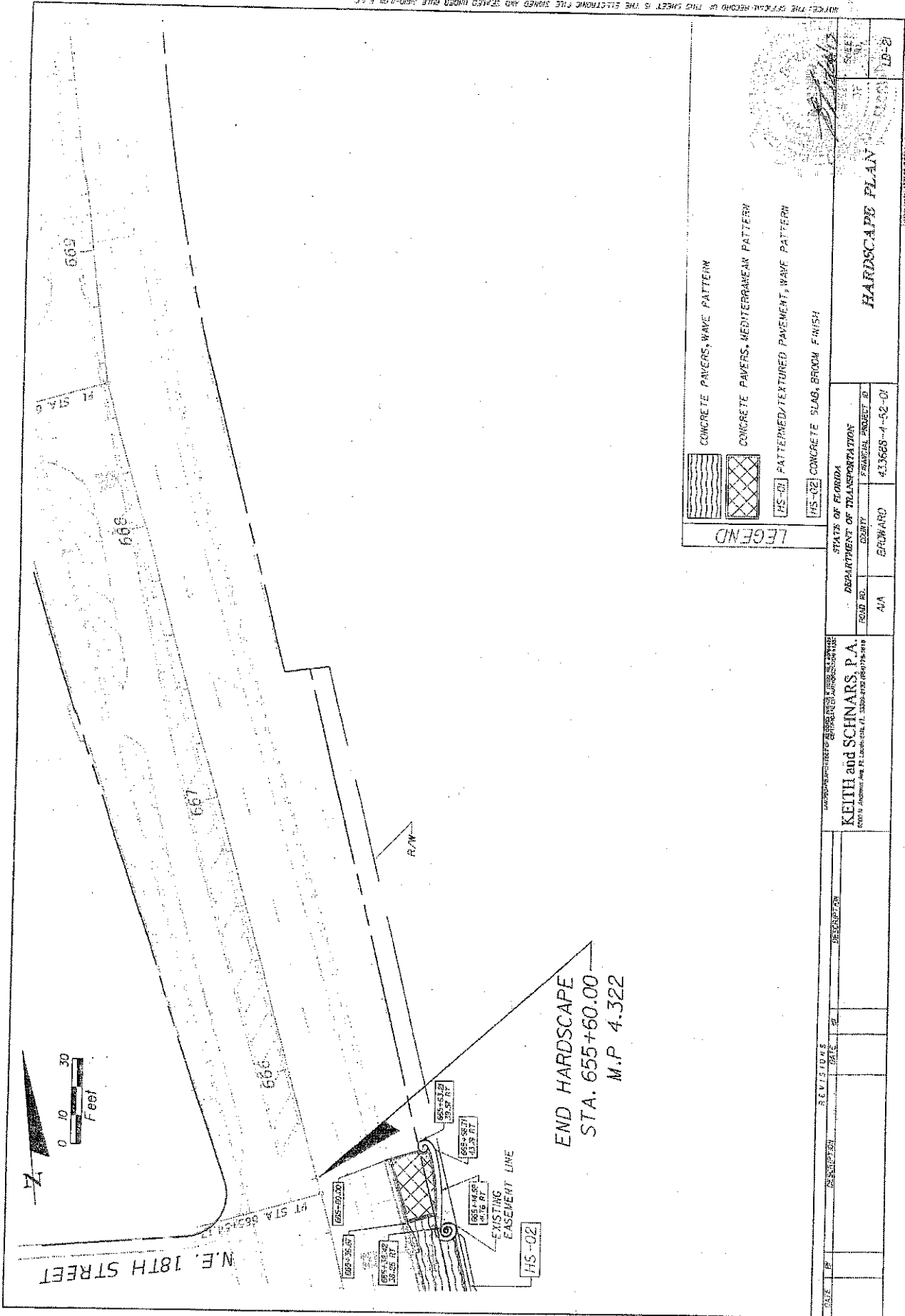
LEGEND

- CONCRETE PAVERS, WAVE PATTERN
- CONCRETE PAVERS, MEDITERRANEAN PATTERN
- HS-01 PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
- HS-02 CONCRETE SLAB, BROOM FINISH

DATE	BY	DESCRIPTION	REVISIONS

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. PROJECT NO.
 COUNTY PROJECT NO.
 BRONARD 433639-4-52-01
 A/A
 KEITH and SCHNARS, P.A.
 2500 W. UNIVERSITY BLVD., SUITE 200
 FORT LAUDERDALE, FL 33402-3400
 PROJECT NO. 433639-4-52-01
 SHEET NO. LD-20
 DATE: 11/15/2011

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END HARDSCAPE
 STA. 655+60.00
 M.P. 4.322

LEGEND

- CONCRETE PAVERS, WAVE PATTERN
- CONCRETE PAVERS, MEDITERRANEAN PATTERN
- HS-01 PATTERNED/TEXTURED PAVEMENT, WAVE PATTERN
- HS-02 CONCRETE SLAB, BROOK FINISH

HARDSCAPE PLAN

DATE	BY	REVISIONS	DESCRIPTION

STATES OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. 40A COUNTY BROWARD FINANCIAL PROJECT ID 433668-4-52-01
KEITH and SCHNARS, P.A.
CONSULTING ENGINEERS AND ARCHITECTS
10000 W. BIRCHWOOD DRIVE, SUITE 200, BOCA RATON, FL 33433-4322

CHECK THE ORIGINAL RECORD OF THIS SHEET IN THE ELECTRONIC FILE SIGNED AND SEALED UNDER FILE NO. 452-01 P.10

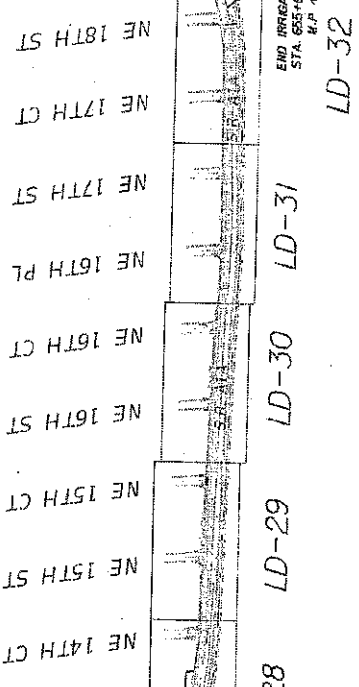


N.T.S.

S.R. 838
SUNRISE BOULEVARD
NE 9TH ST

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STA. 608+50.00
M.P. 1.32/40

END IRRIGATION
STA. 657+60.00
M.P. 1.322

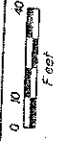


LD-23 LD-24 LD-25 LD-26 LD-27
LD-28 LD-29 LD-30 LD-31 LD-32

DATE	REVISIONS		PROJECT ID	SHEET NO.
	NO.	DATE		
			433658-4-52-01	LD-22
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
ROAD NO.		PROJECT ID		
AVA		433658-4-52-01		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION KEITH and SCHNARS, P.A. 6004 Avenue 44 • Lakeland, FL 33853-7618				
UNIVERSITY PROJECT OF UNIVERSITY OF INDIANA, INDIANAPOLIS				
IRRIGATION SHEET LAYOUT				

Signature
1/16/20

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N.E. 9TH ST

SR A1A

607

608

609

610

611

612

BEGIN IRRIGATION
STA. 608+90.00
M.P. 3.248

EXISTING EASEMENT LINE
PROPOSED EASEMENT LINE

NO SLEEVE INSTALLATION ON THIS SHEET

LEGEND

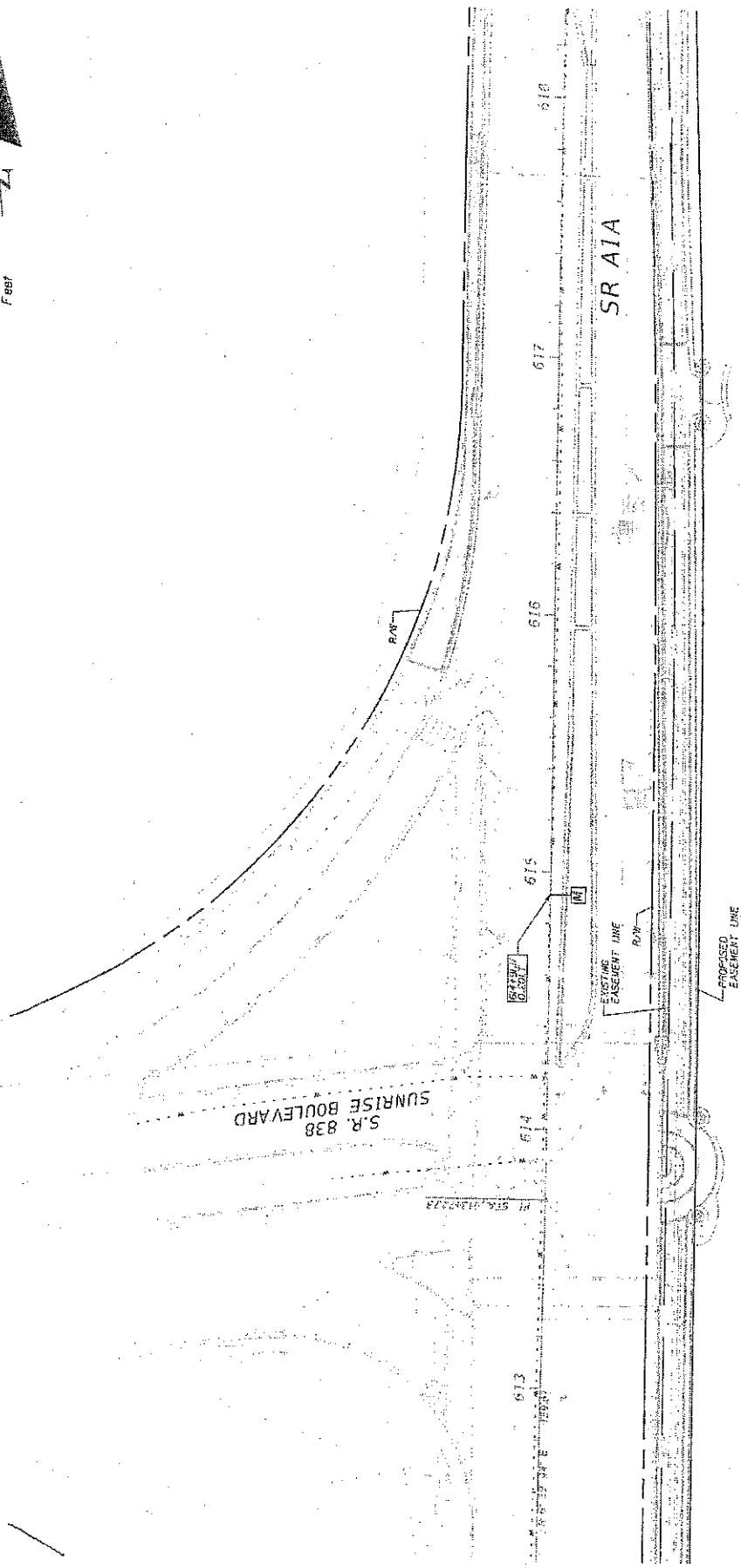
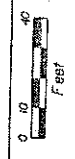
STATE	FLORIDA	PROJECT NO.	433688-4-52-01
COUNTY	ALACHUA	PROJECT	IRRIGATION PLAN
CITY/TOWNSHIP	ALACHUA		
DESIGNER	KEITH and SCHNARS, P.A.		
DATE			
SCALE			
PROJECT NO.	433688-4-52-01		
SHEET NO.	10-23		

0.4 INCH SLEEVE, SCHEDULE 40 PVC
0.2 INCH SLEEVE, SCHEDULE 40 GREY PVC

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES.
KEITH and SCHNARS, P.A.
602 N. FEDERAL AVE., SUITE 200, GAINESVILLE, FL 32609-1000
TEL: 352-339-1111 FAX: 352-339-1112



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LEGEND

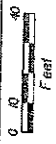
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 10 2 INCH SLEEVE, SCHEDULE 40 GREY PVC

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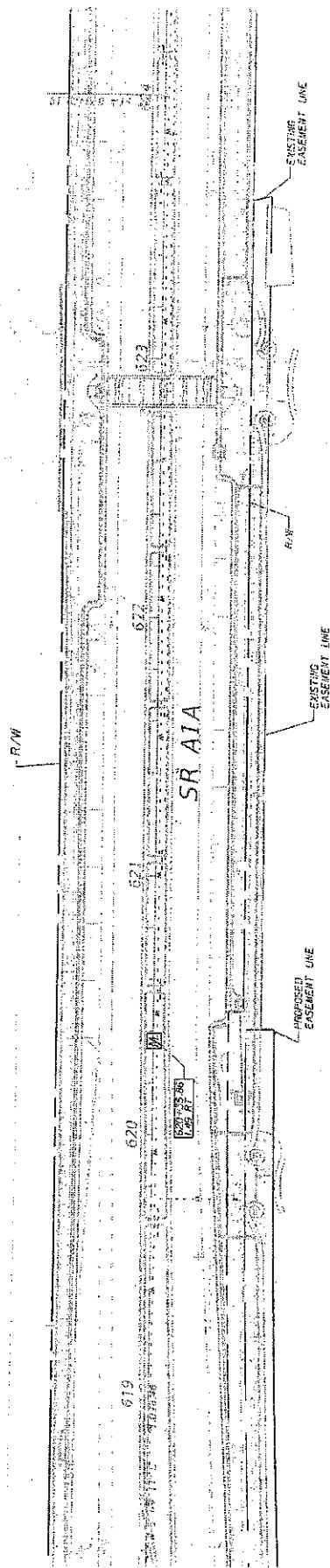
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. A1A BOWARD 433688-4-52-01		SHEET NO. LD-24
KEITH and SCHNARS, P.A. 800 N. Duval Ave., G. Landwehr Bldg., Tallahassee, FL 32304-1100		IRRIGATION PLAN
DATE: _____ PREPARED BY: _____ CHECKED BY: _____ DATE: _____	REVISIONS: _____ DATE: _____ BY: _____ DATE: _____	DESCRIPTION: _____ DATE: _____ BY: _____ DATE: _____



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND RECALLED UNDER FILE 600-4-01-1-1-01.



HUGH TAYLOR BIRCH STATE PARK

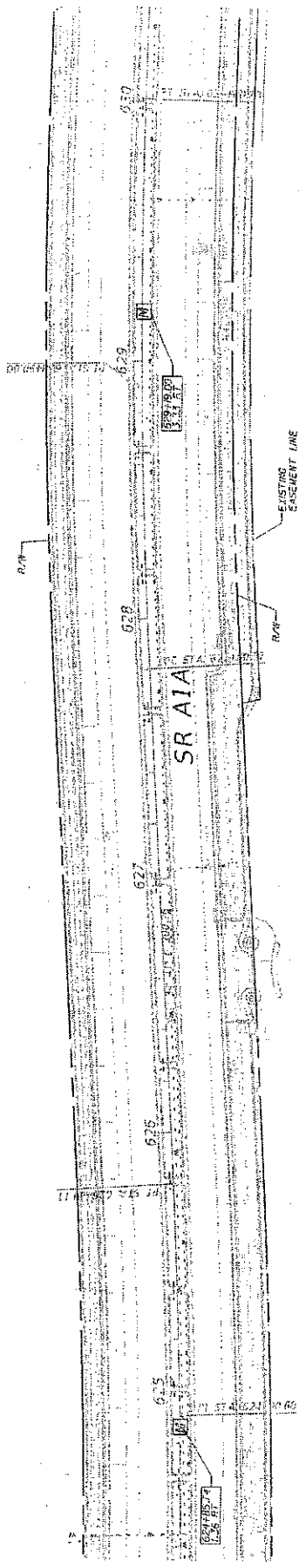
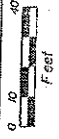


LEGEND

- 1/1.4 INCH SLEEVE, SCHEDULE 40 PVC
- 1/1.2 INCH SLEEVE, SCHEDULE 40 GREY PVC

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		PROJECT NO. 413285-4-52-01		SHEET 471	
ROAD NO. A1A		BRIDGE NO. BROWARD		LD-25	
DRAWN BY AIA		CHECKED BY BROWARD		DATE 4/13/2011	
DESIGNED BY AIA		APPROVED BY BROWARD		PROJECT TITLE IRRIGATION PLAN	
KEITH and SCHNARS, P.A. 8700 N. WINDYWAY AVE., SUITE 100, LARGO, FL 33023-1000 (727) 477-1111					
REGISTERED PROFESSIONAL ENGINEER STATE OF FLORIDA No. 12456 Exp. 12/31/2011					
REVISIONS NO. DESCRIPTION DATE BY					

NOTICE: THE ORIGINAL SECOND OF THIS SHEET IS THE ELECTRONIC FILE. SIGNATURES AND SEALS UNDER THIS RULE SHALL BE ELECTRONIC.



LEGEND

- (1) 4 INCH SLEEVE, SCHEDULE 40 PVC
- (2) 2 INCH SLEEVE, SCHEDULE 40 GREY PVC

STATE OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
COUNTY	FISCAL PROJECT #
A1A	433688-4-52-01

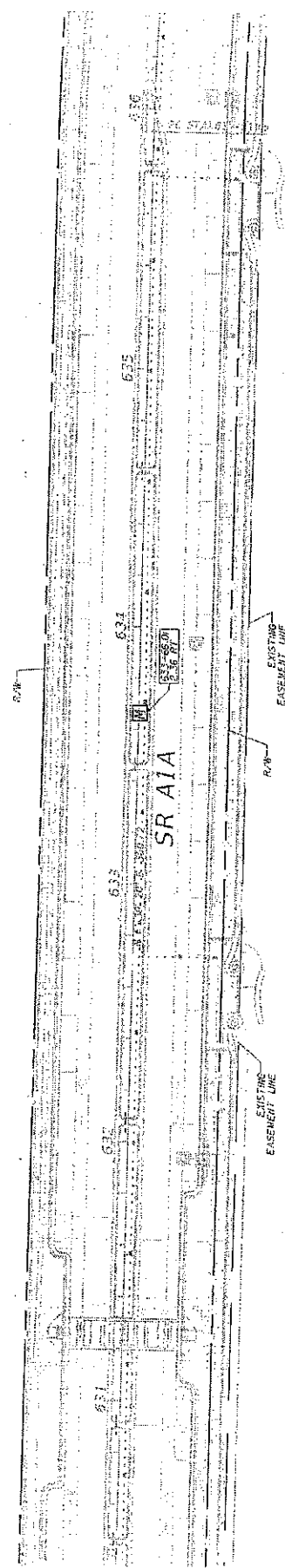
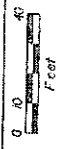
KEITH and SCHNARS, P.A.
 PROFESSIONAL ENGINEERS
 10000 W. BAYVIEW BLVD., SUITE 200
 MIAMI, FLORIDA 33154
 TEL: 305-556-1111
 FAX: 305-556-1112

NO.	BY	DATE	DESCRIPTION

SHEET NO.
LD-26

DATE PLOTTED: 08/26/2014 10:00 AM

NOTES: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 600-1.01, F.A.C.



LEGEND

11.4 INCH SLEEVE, SCHEDULE 40 PVC
 11.2 INCH SLEEVE, SCHEDULE 40 GREY PVC

SHEET NO.
 LD-27

IRRIGATION PLAN

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 FEDERAL PROJECT #
 433628-4-52-01

ROAD NO.
 A1A

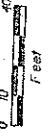
DESIGNED BY
 KEITH and SCHWAB, P.A.
 680 N. JEFFERSON AVE., SUITE 1000
 TAMPA, FL 33602
 REGISTERED PROFESSIONAL ENGINEER
 NO. 12500
 EXPIRES 12/31/2013

REVISIONS

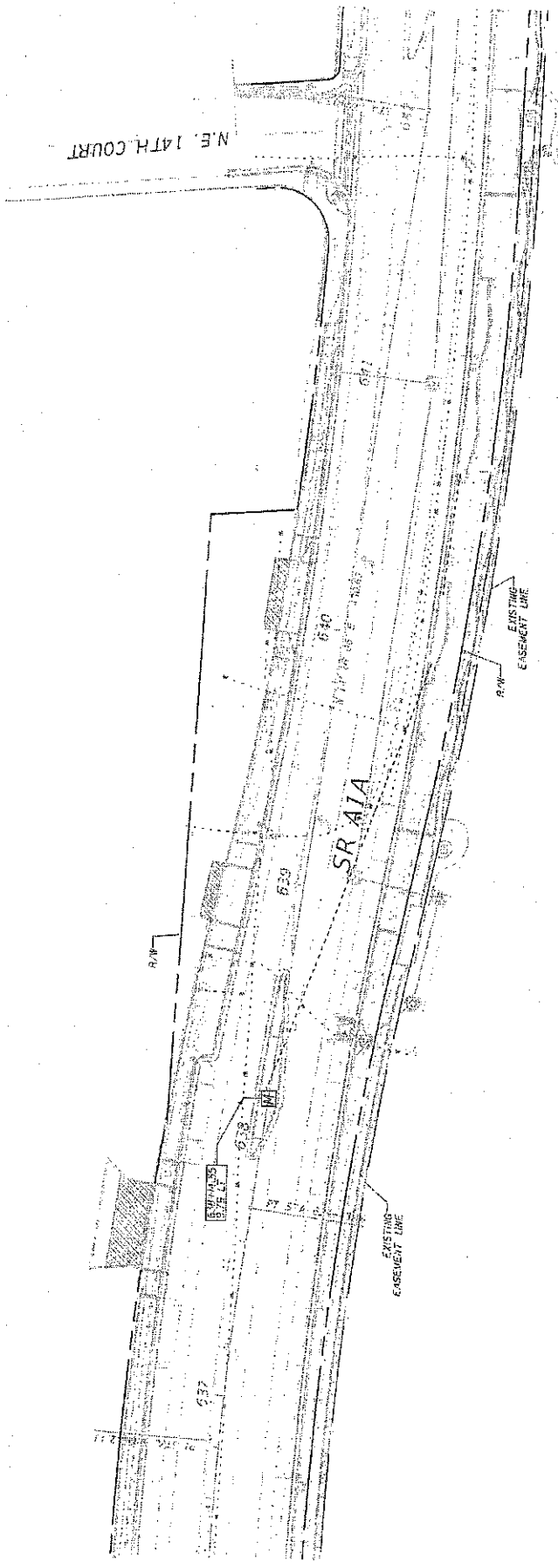
NO.	DATE	DESCRIPTION

DATE PLOTTED: 11/14/13 10:58 AM

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N.E. 14TH COURT



LEGEND

- (1) 4 INCH SLEEVE, SCHEDULE 40 PVC
- (2) 2 INCH SLEEVE, SCHEDULE 40 GREY PVC

SHEET NO. LD-29

IRRIGATION PLAN

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

PROJECT NO. 433636-01-EG-01
PROJECT NAME: RICHARD

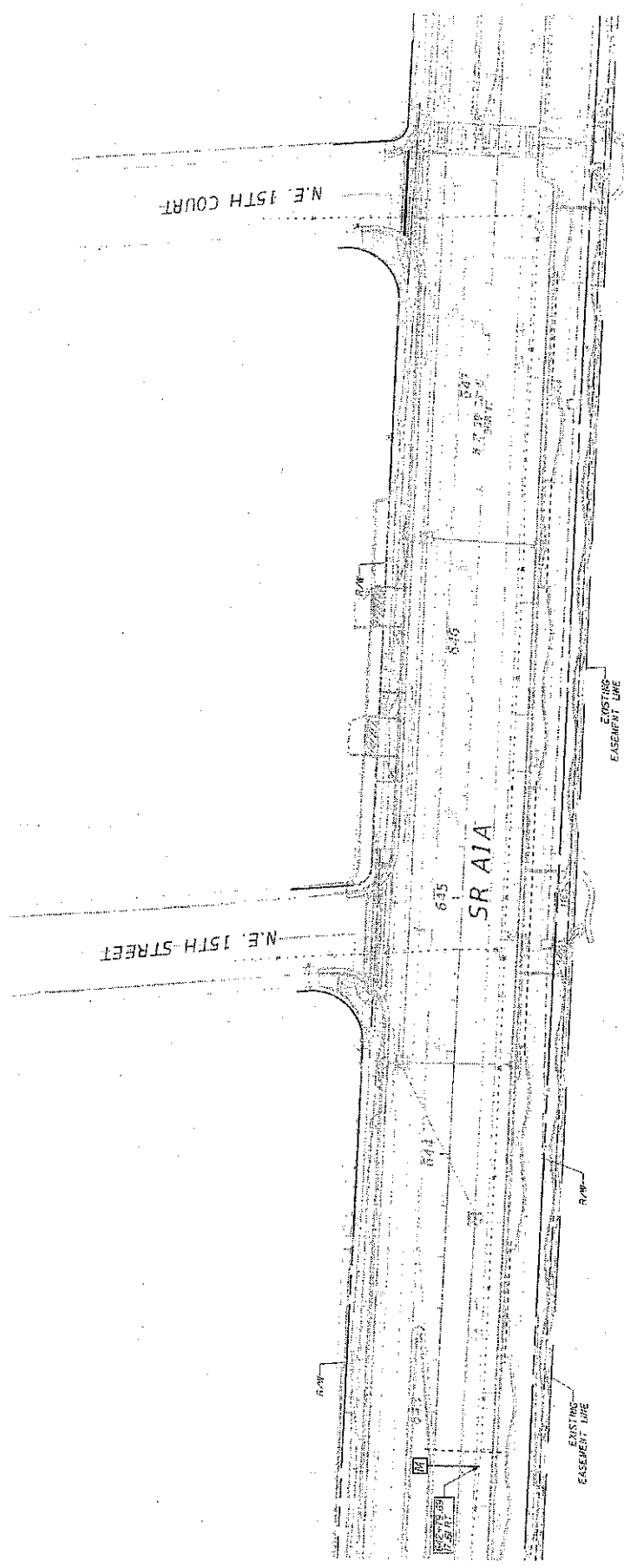
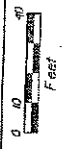
KEITH and SCHNARS, P.A.
2700 N. SHARPS AVE. # 2000
TALLAHASSEE, FL 32309

PROJECT NO. 433636-01-EG-01
PROJECT NAME: RICHARD

DATE	BY	REVISIONS

DATE PLOTTED: 03/11/2014 10:00:00 AM

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNATURE AND SEALED UNDER RULE 6100-9-01, F.S.



LEGEND

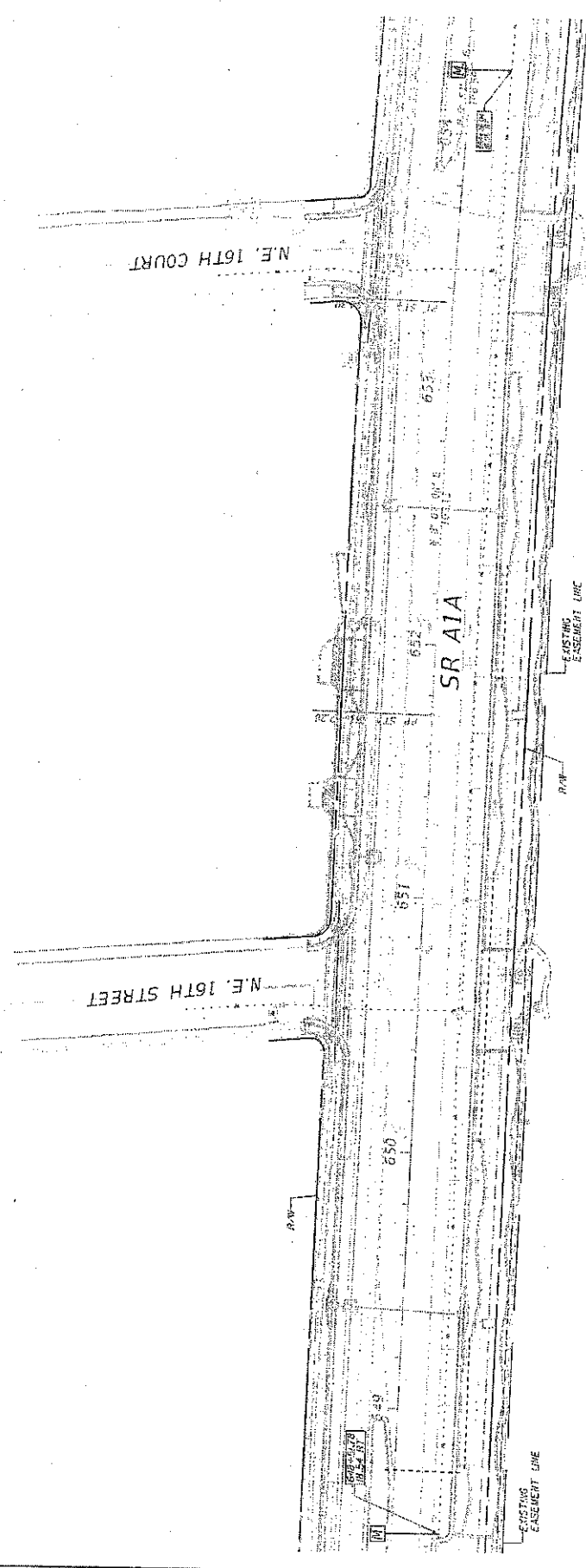
0.4 INCH SLEEVE, SCHEDULE 40 PVC	SHEET NO.	10-29
0.2 INCH SLEEVE, SCHEDULE 40 GREY PVC	IRRIGATION PLAN	

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. A1A
 COUNTY BAYWARD
 FINANCIAL PROJECT ID 43362B-4-62-01

DESIGNER: KEITH and SCHNARS, P.A.
 6630 N. Central Exp., Ft. Lauderdale, FL 33309
 954-571-1111

DATE	BY	DESCRIPTION	REVISIONS

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LEGEND

10 4 INCH SLEEVE, SCHEDULE 40 PVC
 10 2 INCH SLEEVE, SCHEDULE 40 GREY PVC

STATE OF FLORIDA	PROJECT NO.	433665-4-52-01
DEPARTMENT OF TRANSPORTATION	FISCAL YEAR	
COUNTY	BRWARD	
ROAD NO.	A1A	

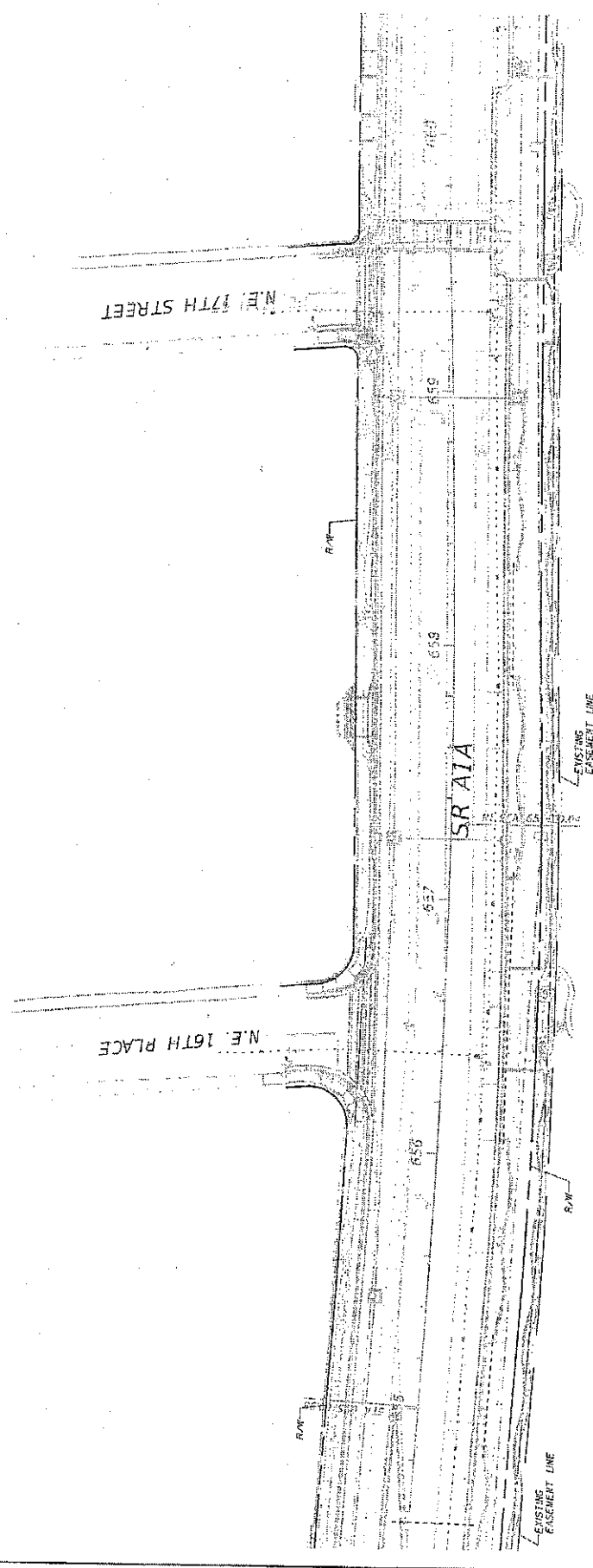
IRRIGATION PLAN

PROJECT PROPERTY OF
 KEITH and SCHNARS, P.A.
 10019 Avenue A, Ft. Lauderdale, FL 33308-1010

DATE	BY	REVISION	DESCRIPTION

DATE: 11/17/2011 10:52:30 AM

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE STORED AND SEALED UNDER RULE 550-1.04, F.A.C.



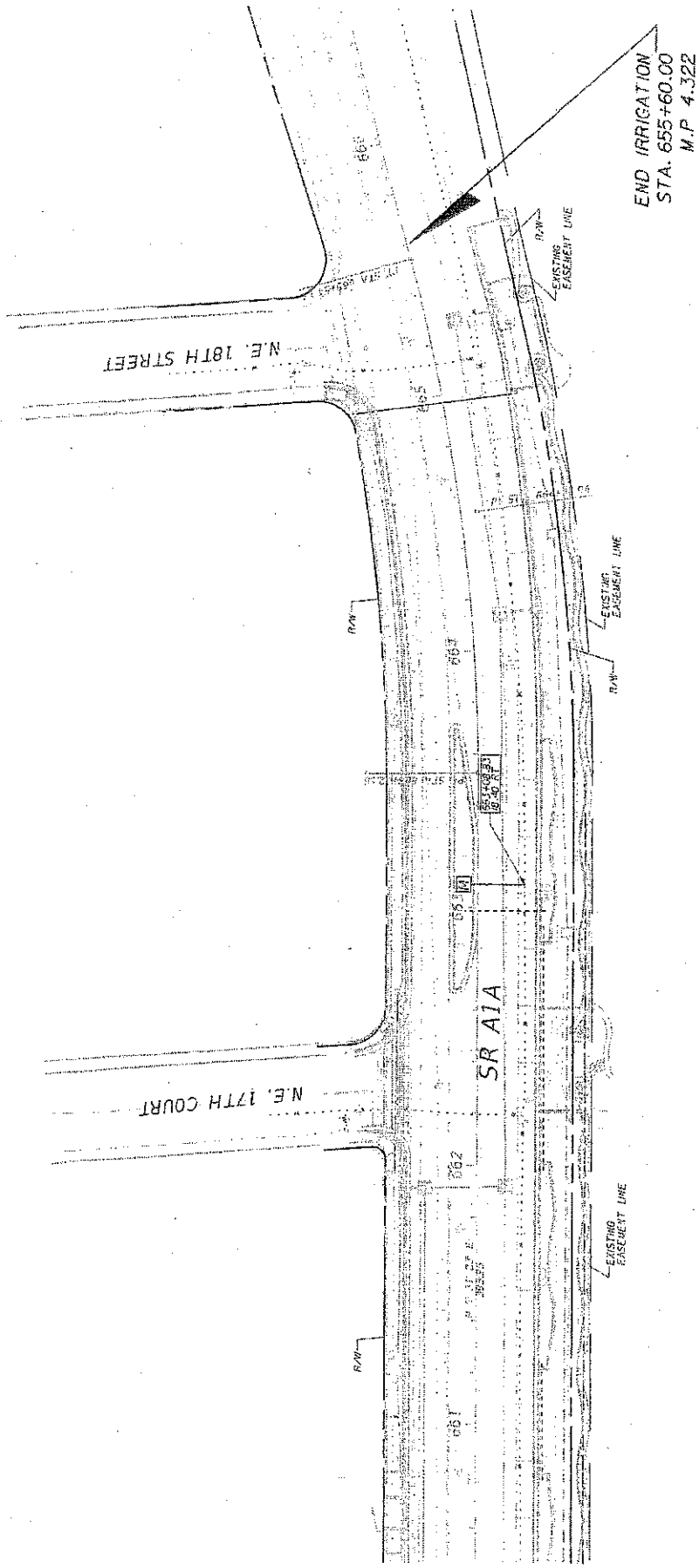
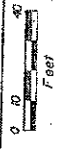
LEGEND

- 10.4 INCH SLEEVE, SCHEDULE 40 PVC
- 10.2 INCH SLEEVE, SCHEDULE 40 GREY PVC

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION COUNTY FRANKLIN COUNTY ROAD NO. A1A BISHARD 433688-4-52.01		SHEET NO. LD-31	
PROJECT NO. 433688-4-52.01 PROJECT NAME BISHARD		SHEET NO. LD-31	
CONTRACT NO. 433688-4-52.01 CONTRACT NAME BISHARD		SHEET NO. LD-31	
DESIGNER KEITH and SCHNARS, P.A. 4001 FORT WASHINGTON PI. TAMPA, FL 33610-1716		SHEET NO. LD-31	
REVISIONS NO. DATE DESCRIPTION	DATE	DESCRIPTION	DATE

DATE PLOTTED: 08/28/2008 10:02:27 AM

NOTICE: THE ORIGINAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SAVED AND SEALED UNDER RULE 609.001, F.A.C.



END IRRIGATION
STA. 655+60.00
M.P. 4.322

LEGEND

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61.2 INCH SLEEVE, SCHEDULE 40 GREY PVC

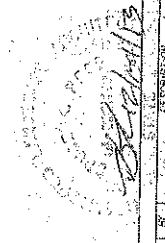
SHEET NO.
LD-32

IRRIGATION PLAN

STATES OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. A1A
COUNTY BROWARD
PROJECT ID 433688-4-SP-01

KEITH and SCHNARS, P.A.
1800 N. HIGHWAY 17, SUITE 200, WEST PALM BEACH, FL 33411
TEL: 561-833-4444 FAX: 561-833-4444

DATE	BY	REVISIONS	DESCRIPTION



SECTION No.: 860500
FM No.: 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT C

MAINTENANCE PLAN FOR LANDSCAPE IMPROVEMENTS

Dated: November 19, 2013

See attached

MAINTENANCE PLAN
Landscape Improvements

Project State Road No(s): State Road A1A
Maintenance Limits: From N.E. 9th Street (M.P. 3.248) to N.E. 18th Street (M.P. 4.322)
FM No(s): 433688-4-52-01
Maintaining Agency: City of Fort Lauderdale
RLA of Record: Bruce K. Reed
Date: November 19, 2013

I. General Maintenance Requirements and Recommendations:

The purpose of a plan for the landscape improvements maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner while fulfilling their intended purpose and conserving our natural resources. Plantings and all other landscape improvements shall be maintained to avoid potential roadway hazards and to provide required clear visibility, accessibility, clearance, and setbacks as set forth by Florida Department of Transportation (FDOT) governing standards and specifications: *FDOT Design Standards, FDOT Plans Preparation Manual Vol. 1, Chapter 2.11* and *FDOT Standard Specifications for Road and Bridge Construction*, as amended by contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

Watering Requirements:

Watering is a critical concern for not only the maintenance of healthy plant material but also for observing water conservation practices. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil. For plant materials that have been established, it is imperative that any mandated water restrictions be fully conformed to on FDOT roadways.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not saturate the soil or over-spray onto travel lanes.

Irrigation System:

The Agency shall ensure there are no roadway overspray or irrigation activities occurring during daytime hours (most notably "rush hour" traffic periods). It is imperative the irrigation controller is properly set to run early enough that the watering process will be entirely completed before high traffic periods, while adhering to mandated water restrictions. To ensure water conservation, the Agency shall monitor the system for water leaks and the rain sensors to ensure they are functioning properly so that the system shuts down when there is sufficient rainfall.

Integrated Plant Management:

An assessment of each planting area's soil is recommended to periodically determine the nutrient levels needed to sustain healthy, vigorous plant growth.

Palms, shrubs, trees and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

Mulching:

Mulch planting beds in such a manner as to prevent weed growth, retain moisture to the plants, protect against soil erosion and nutrient loss, maintain a more uniform soil temperature, and improve the appearance of the planting beds. Avoid mulch mounded up on the trunks of trees, palms, and the base of shrubs to encourage air movement in this area which aids in lowering disease susceptibility. Cypress mulch is prohibited on state right of way.

Pruning:

All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute (ANSI) A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, to specific pruning heights maintaining clear visibility for motorists, and provide vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions, and all trees and palms must be maintained to prevent potential roadway and pedestrian hazards, all palms are to be kept fruit free. The specific pruning heights are determined by understanding the designer's intent when selecting and placing the plants. The intended mature maintained height and spread of plants are noted on the plans (See Exhibit B.) and see Part II. "Specific Requirements and Recommendations" for guidelines. The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) are to be maintained at a height in compliance with *FDOT Design Standards Index 546; Page 2 of 6, Window Detail*. Vertical tree heights must meet *FDOT Maintenance Rating Program (MRP)* standards.

Staking and Guying:

All staking materials, except for replacements, are to be removed by the completion of FDOT plant establishment period or at a minimum one year. Any subsequent staking and guying activities by the Agency must adhere to *FDOT Design Standards* guidelines (See Index 544). The Agency shall closely monitor staking and guying attachment materials so that they are securely fastened to avoid potential roadway hazards.

Turf Mowing:

All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a deep, healthy root system while providing a neat and clean appearance to the urban landscape. All turf efforts, mowing, curb/sidewalk edging and turf condition, must at a minimum, meet *FDOT Maintenance Rating Program (MRP)*.

Litter Control:

The area within the maintenance limits of the landscape improvements shall remain as litter free as practicable. It is recommended to recycle this litter to avoid unnecessary waste. Litter removal efforts must meet *FDOT Maintenance Rating Program (MRP)* standards.

Weeding/Herbicide:

All planting areas shall be maintained as weed free as practicable by enlisting integrated pest management practices in areas specified on the plans and maintaining proper mulch levels. Extreme care is recommended if using a chemical herbicide to avoid overspray onto plant materials. It is the applicator's responsibility to restore any damage, resulting from overspray to the plantings, per the approved plans.

Plant Replacement:

Plant replacement shall be the same species and specification as the approved plan. Move and replace all plant materials that may conflict with utility relocations and service. Only plants graded Florida #1 or better, per the *Florida Department of Agriculture and Consumer Services, Grades and Standards for Nursery Plants* are permitted on FDOT roadways. Should it become necessary to change the species, a general use permit is required from FDOT for approval by the FDOT District Landscape Architect.

Hardscape (Specialty Surfacing):

All tree grates and specialty surfacing (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current *Interlocking Concrete Pavement Institute (ICPI), Guide Specifications for Pavers on an Aggregate Base, Section 32 14 13 Interlocking Concrete Pavers, Part 3.05*. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

Hardscape (Non-Standard Travelway Surfacing):

It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway, including asphalt pavement (if applicable), caused or contributed by the installation or failure of non-standard surfacing, and/or the header curb, on the Department of Transportation right-of-way within the limits of this Agreement. Pavement restoration areas or "patches" will have a minimum length of 10-ft, measured from the edge of the header curb, and a width to cover full lanes for each lane affected by the restoration.

Pavement restoration will be performed in accordance with the most current edition of the *FDOT Standard Specifications for Road and Bridge Construction*, and the *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System*.

It shall be the responsibility of the AGENCY to maintain all signs located within a non-standard surfacing area. Such maintenance to be provided by the AGENCY shall include repair and replacement of the sign panel, post, and base.

Hardscape (Landscape Accent Lighting)

Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan. Landscape lighting shall meet requirements for the sea turtle nesting and hatching.

Maintenance of Traffic Control

Reference the FDOT website regarding the selection of the proper traffic control requirements to be provided during routine maintenance and / or new installations of this DOT roadway.

Vegetation Management at Outdoor Advertising (ODA)

To avoid conflicts with permitted outdoor advertising, please reference the State of Florida website regarding the vegetation management of outdoor advertising. This website provides a portal to search the FDOT Outdoor Advertising Inventory Management System Database. The database contains an inventory of outdoor advertising structures, permits and other related information maintained by the Department.

Also, reference the *Florida Highway Beautification Program* website link for "Vegetation Management at ODA signs" "Florida Statutes" and "Florida Administrative Code" related to vegetation management at outdoor advertising sign, permit applications for vegetation management and determining mitigation value of roadside vegetation.

II. Specific Project Site Maintenance Requirements and Recommendations:

Ensure a clean and neat appearance by periodically cleaning and sealing the concrete pavers.

III. References

This reference list is provided as a courtesy. The list may not contain the most current websites. The most current references must be accessed for up to date information.

Accessible Sidewalk Videos (ADA)

<http://www.access-board.gov/news/sidewalk-videos.htm>

Americans with Disabilities Act (ADA) (ADAAG)

http://www.ada.gov/2010ADAstandards_index.htm

American National Standard Institute, *ANSI A300, (Part 1) for Tree Care Operations – Trees, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning)*, available for purchase

www.isa-arbor.com

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Plants*, available for purchase

<http://www.doacs.state.fl.us/pi/pubs.html>

Florida Department of Community Affairs (DCA), *Florida Board of Building Codes & Standards, 2010 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A*

http://www2.iccsafe.org/states/florida_codes/

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 544 Landscape Installation*

<http://www.dot.state.fl.us/rddesign/DS/13/IDx/00544.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 546 Sight Distance at Intersections*

<http://www.dot.state.fl.us/rddesign/DS/13/IDx/00546.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 600 Traffic Control through Work Zones*

<http://www.dot.state.fl.us/rddesign/DS/13/IDx/00600.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 700 Roadside Offsets*

<http://www.dot.state.fl.us/rddesign/DS/13/IDx/00700.pdf>

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. I Chapter 2.11 Horizontal Clearance*

Table 2.11.5 Horizontal Clearance to Trees

Table 2.11.11 Recoverable Terrain

<http://www.dot.state.fl.us/rddesign/PPMManual/2013RPPM.shtm>

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*
<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks/2013/Files/580-2013.pdf>

Florida Department of Transportation, Florida Highway Beautification Program
www.MyFloridaBeautiful.com

Florida Department of Transportation, *Maintenance Rating Program Handbook*
<http://www.dot.state.fl.us/statemaintenanceoffice/MaintRatingProgram.shtm>

Florida Department of Transportation Outdoor Advertising Database
<http://www2.dot.state.fl.us/rightofway/>

Florida Exotic Pest Plant Council Invasive Plant Lists
<http://www.fleppc.org/list/list.htm>

Florida Irrigation Society
<http://www.fisstate.org>

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place*
http://www.fpl.com/residential/trees/right_tree_right_place.shtm

Guide to Roadside Mowing and Guide to Turf Management, available for purchase
<http://infonet.dot.state.fl.us/SupportServicesOffice/plist.htm>

Interlocking Concrete Pavement Institute (ICPI)
<http://www.icpi.org/>

International Society of Arboriculture (ISA)
www.isa-arbor.com

UF IFAS: *Selecting Tropical and Subtropical Tree Species for Wind Resistance*
<http://edis.ifas.ufl.edu/pdf/FR/FR17500.pdf>

U.S. Department of Transportation, Federal Highway Administration, *Manual on Uniform Traffic Control Devices*
<http://www.mutcd.fhwa.dot.gov>

SECTION No.: 860500
FM No.: 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT D

PATTERNED PAVEMENT MAINTENANCE

This Exhibit forms an integral part of the DISTRICT FOUR (4) MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

"Maintenance" of all patterned pavement crosswalks in these Agreements shall be defined, as a minimum, to include its frictional characteristics and integrity as follows:

1. Within 60 days of project acceptance by the Department, all lanes of each patterned crosswalk shall be evaluated for surface friction. The friction test shall be conducted using either a locked wheel tester in accordance with *FM 5-592 (Florida Test Method for Friction Measuring Protocol for Patterned Pavements)* or Dynamic Friction Tester in accordance with *ASTM E1911*. *All costs for friction testing are the responsibility of the AGENCY.*
2. The initial friction resistance shall be at least 35 obtained at 40 mph with a ribbed tire test (FN40R) or equivalent (FM 5-592 attached). Failure to achieve this minimum resistance shall require all deficient crosswalk areas to be removed to their full extent (land-by-land) and replaced with the same product installed initially. The AGENCY is responsible for all costs associated with the removal and replacement of the crosswalk. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the Qualified Products List (QPL) or replaced with conventional pavement.
3. Approximately **one year** after project acceptance and **every two years** thereafter and for the life of the adjacent pavement, only the outside traffic lane areas of each patterned crosswalk shall be tested for friction resistance in accordance with *ASTM E274* or *ASTME 1911*. Friction resistance shall, at a minimum, have a FN40R value of 35 (or equivalent).

4. The results of all friction tests shall be sent to the **Operations Engineer** at the local FDOT District Four Operations Center located at 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300, with a cover letter either certifying, that the crosswalks comply with the minimum friction criteria, or stating what remedial action will be taken to restore the friction.
5. Failure to achieve the minimum resistance shall require all lanes of the crosswalk to be friction tested to determine the extent of the deficiency. All deficient areas shall be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the QPL, or replaced with conventional pavement.
6. When remedial action is required in accordance with the above requirements, the local agency shall complete all necessary repairs at its own expense within 90 days of the date when the deficiency was identified. No more than two full depth patterned pavement repairs shall be made to an area without first resurfacing the underlying pavement to 1" minimum depth.
7. The Department will not be responsible for replacing the treatment following any construction activities by the Department in the vicinity of the treatment, or any costs for testing.
8. Should the local agency fail to satisfactorily perform any required remedial work or testing in accordance with this agreement, the Department reserves the right to replace the patterned pavement with conventional pavement (matching the adjacent pavement) and bill the local agency for this cost.

Florida Test Method
for
Friction Measuring Protocol for Patterned Pavements

Designation: FM 5-592

1. SCOPE

This method covers the testing procedures for evaluating the friction resistance of Patterned surfaces used in crosswalks over asphalt and concrete surfaces

Note: This test method contains two parts:

Part A- Friction testing performed with the Locked Wheel Friction Tester

Part B- Friction testing performed with the Dynamic Friction Tester (DFT)

2. APPARATUS

2.1 Locked Wheel Friction Tester- This apparatus shall be standardized in accordance with ASTM E 274, "Standard Test Method for Skid Resistance of Paved Surfaces Using a Full-Scale Tire". The friction test tire used shall be in accordance with ASTM E 501, "Standard Specification for Standard Rib Tire for Pavement Skid-Resistance".

2.2 Dynamic Friction Tester- This apparatus shall be standardized in accordance with ASTM E 1911, "Standard Test Method for Measuring Paved Surface Frictional Properties Using the Dynamic Friction Tester".

3. FRICTION NUMBER CONVERSION

The regression equations relating the locked wheel test results and the DFT results at 40 mph (65 km/h) are:

$$FN40R = 0.64 \cdot DFT40 + 9.23 \quad (1)$$

$$DFT40 = 1.56 \cdot FN40R - 14.42 \quad (2)$$

where,

FN40R = Friction Number from locked wheel testing at 40 mph using a ribbed tire

DFT40 = Coefficient of Friction from DFT at 40 mph multiplied by 100.

Although the above equations can be used to convert the DFT result to the locked wheel friction number at 40 mph and vice versa, conditions do exist where the DFT testing or the locked wheel testing at 40 mph is not feasible due to constraints such as safety, traffic congestion, speed limits, and/or roadway geometries. In these cases, it may be preferable to conduct the locked wheel

testing at a slower speed, e.g., 20 or 30 mph. The following regression equations have been developed to convert the locked wheel test results at 20 and 30 mph to those at 40 mph:

$$FN_{40R} = 0.89 \cdot FN_{20R} - 4.88 \quad (3)$$

where,

FN_{20R} = Friction Number from locked wheel testing at 20 mph using a ribbed tire, and

$$FN_{40R} = 0.95 \cdot FN_{30R} - 2.91 \quad (4)$$

where,

FN_{30R} = Friction Number from locked wheel testing at 30 mph using a ribbed tire.

For ease of application of the above harmonization results, Table 1 summarizes the conversions from FN_{30R} , FN_{20R} and DFT_{40} to FN_{40R} . Note that the friction numbers shown in this table were rounded to the closest integer. The numbers highlighted in yellow represent the current minimum required friction numbers depending on survey cycle, test method, and speed evaluated.

Table 1. Friction Number Table

FN40R	FN30R	FN20R	DFT40
22	26	30	20
23	27	31	21
24	28	32	23
25	29	34	25
26	30	35	26
27	31	36	28
28	33	37	29
29	34	38	31
30*	35*	39*	32*
31	36	40	34
32	37	41	36
33	38	43	37
34	39	44	39
35**	40**	45**	40**
36	41	46	42
37	42	47	43
38	43	48	45
39	44	49	46
40	45	50	48
41	46	52	50
42	47	53	51
43	48	54	53
44	49	55	54
45	50	56	56

* Minimum friction numbers required for inventory cycles of patterned crosswalks.

**Minimum friction numbers required for new construction and 3-year QPL test decks for patterned crosswalks.

4. PROCEDURE

The test procedures for both the Locked Wheel Friction Tester and the Dynamic Friction Tester are described in the following. All testing should be performed within either the driver or passenger side wheel path, regardless of the equipment used.

4.1 PART A- Friction Testing with the Locked Wheel Friction Tester

- A) **New Construction** – The locked wheel test shall be conducted on all crosswalks within 60 days of the new surface completion date. One valid lockup test is required for each lane; all lanes shall be evaluated

and compared. The test layout is shown in Figure 1.

- B) **Inventory** – For in-service Qualified Product List (QPL) test sections, the locked wheel test is conducted at 6 month intervals up to 3 years. Maintenance surveys are conducted on a yearly basis. Test site shall be confined to a single outside traffic lane (single direction) for each crosswalk location. The locked wheel test will require three repeat lockups and averaged for the designated test lane. The lane in which the friction tests were conducted must be identified in the report along with the test results.
- C) **Retest** – At any point when friction numbers are determined to be below the required values shown in Table 1, all lanes shall be evaluated and the range of friction values shall be determined.
- D) **Special Request** – At any time a patterned pavement is in need of a special assessment, the designated lane(s) shall be evaluated to determine the range of representative friction values.

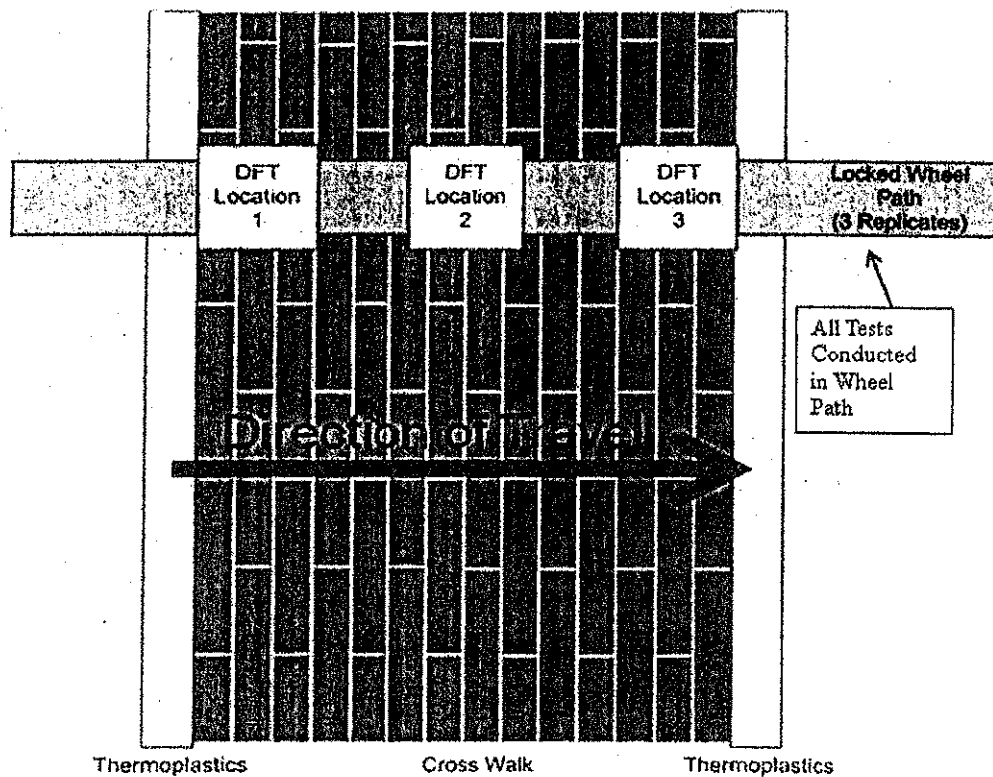


FIGURE 1 Testing protocol for patterned pavement.

4.2 PART B- Skid Testing with the Dynamic Friction Tester (DFT)

- A) **New Construction** – The DFT test shall be conducted on all crosswalks within 60 days of the new surface completion date. DFT tests shall be conducted at three (3) discrete locations in each lane; the results shall be averaged and reported for each lane tested. All lanes shall be evaluated and compared. The test layout is shown in Figure 1.
- B) **Inventory** – For in-service QPL test sections, the DFT test is conducted at 6 month intervals up to 3 years. Maintenance surveys are conducted on a yearly basis. Test site shall be confined to a single outside traffic lane (single direction) for each crosswalk location. DFT tests will be conducted at three (3) discrete locations (Figure 1) in each lane; the results shall be averaged and reported for each lane tested. The lane in which the friction tests were conducted should be identified in the report with the test results.
- C) **Retest** – At any point when friction numbers are determined to be below the required values shown in Table 1, all lanes shall be evaluated and the range of friction values shall be determined.
- D) **Special Request** – At any time a patterned pavement is in need of a special assessment, the designated lane(s) shall be evaluated to determine the range of representative friction values.

5 REPORT

- 5.1 Friction numbers for the patterned crosswalks should be reported using FDOT's Materials form number 675-060-05. This form can be downloaded from FDOT's website at:
<http://formserver.dot.state.fl.us/MiscRepository/forms/67506005.xlsm>.

SECTION No.: 860500
FM No.: 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT E

APPROXIMATE COST FOR LANDSCAPE IMPROVEMENTS

This Exhibit forms an integral part of the DISTRICT FOUR (4) LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

\$ 984,757.50

SECTION No.: 860500
FM No.: 433688-4-52-01
COUNTY: Broward
S.R. No.: A1A

EXHIBIT E

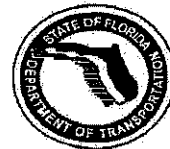
APPROXIMATE COST FOR LANDSCAPE IMPROVEMENTS

This Exhibit forms an integral part of the DISTRICT FOUR (4) LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

\$ 984,757.50

OPINION OF CONSTRUCTION COST

PROJECT STATE ROAD No(s): STATE ROAD A1A
MAINTENANCE LIMITS FROM N.E. 9th STREET TO N.E. 18th STREET (M.P. 4.322)
FM No(s): 433688-4-52-01
MAINTAINING AGENCY: CITY OF FORTLAUDERDALE
RLA OF RECORD: BRUCE K. REED
DATE: 3-Dec-13



PAY ITEM #	DESCRIPTION	SPECIFICATION	UNIT	QTY	UNIT PRICE MAT. & LAB.	SUB-TOTAL
523-1	PATTERNED/TEXTURED PAVEMENT	THERMO-SET STONE AGGREGATE	SY	579	\$67.50	\$39,082.50
526-1-1	PAVERS, ARCHITECTURAL	CONCRETE PAVERS 3 1/8 IN THICK	SY	11675	\$81.00	\$945,675.00

GRAND TOTAL =					\$984,757.50
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