

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
LOCALLY FUNDED AGREEMENT**

THIS Locally Funded Agreement ("Agreement"), entered into this _____ day of _____, 20_____, by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT, and the City of Hallandale Beach located at 400 South Federal Highway, Hallandale Beach, FL 33009, hereinafter called the PARTICIPANT.

WITNESSETH

WHEREAS, the DEPARTMENT will undertake a project for the construction of intersection lighting retrofit improvement work along US-1 in Broward County, Florida. (Financial Management (FM) Number 446997-1-52-01, Funded in Fiscal Year 2023/2024; and

WHEREAS, as part of the DEPARTMENT'S construction work, the PARTICIPANT desires the DEPARTMENT to enhance the intersection lighting with decorative features, the cost for which the PARTICIPANT will contribute to the DEPARTMENT'S, and will consist of the following additional work: construction (installation) of decorative lighting within the city limits of Hallandale Beach (FM Number 446997-1-52-02) as set forth in **Exhibit A** attached hereto and made a part hereof and hereinafter referred to as the "**Project**"; and

WHEREAS, the PARTICIPANT has agreed to provide the DEPARTMENT with the additional funding needed for the Project; and

WHEREAS, the improvements are in the interest of both the PARTICIPANT and the DEPARTMENT and it would be more practical, expeditious, and economical for the DEPARTMENT to perform such activities; and

WHEREAS, the PARTICIPANT by Resolution No. _____ adopted on _____, 20_____, a copy of which is attached hereto and made a part hereof, authorizes the proper officials to enter into this Agreement.

NOW, THEREFORE, in consideration of the mutual benefits to be derived from joint participation on the Project, the parties agree to the following:

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. The DEPARTMENT shall be responsible for ensuring that the Project complies with all applicable Federal, State and Local laws, rules, regulations, guidelines and standards.
3. The PARTICIPANT agrees to make all previous studies, maps, drawings, surveys and other data and information pertaining to the Project available to the DEPARTMENT at no extra cost.
4. The DEPARTMENT shall have the sole responsibility for resolving claims and requests for additional work for the Project. The DEPARTMENT will make reasonable efforts to obtain the PARTICIPANT's input in its decisions.

5. The total cost for the DEPARTMENT'S retrofit lighting work along US-1, is estimated to be FIVE HUNDRED SIXTY-TWO THOUSAND FORTY NINE DOLLARS AND NO CENTS (\$562,049.00). The Project cost is an estimated amount of SIXTY-SIX THOUSAND THREE HUNDRED TWENTY-FOUR DOLLARS AND NO CENTS (\$66,324.00), which sum shall be paid by the PARTICIPANT to the DEPARTMENT. In the event the actual cost of the Project is less than the PARTICIPANT'S payment, the difference shall be refunded to the PARTICIPANT. In the event the actual cost of the Project, without modifications, results in a sum greater than that paid by the PARTICIPANT, then any additional cost shall be the sole responsibility of the PARTICIPANT and shall be paid to the DEPARTMENT.
- A. The PARTICIPANT agrees that it will, within thirty (30) days of execution of this Agreement, furnish the DEPARTMENT with a check in the amount of SIXTY SIX THOUSAND THREE HUNDRED TWENTY FOUR DOLLARS AND NO CENTS (\$66,324.00) towards the Project Costs.

In the event payment is not received by the DEPARTMENT within thirty (30) days of execution of this Agreement, the DEPARTMENT reserves the right to terminate this Agreement and remove the Project from the Department's Work Program and not construct the decorative lighting.

Remittance shall be made payable to the Department of Financial Services, Revenue Processing. Payment shall be clearly marked to indicate that it is to be applied to FM No. 446997-1-52-02. The DEPARTMENT shall utilize this amount towards costs of Project No. 446997-1-52-02.

Payment shall be mailed to:
Florida Department of Transportation
Office of Comptroller
General Accounting Office, LFA Section
605 Suwannee Street, MS 42B
Tallahassee, Florida 32399

In lieu of mailing payment to the DEPARTMENT, the PARTICIPANT may also submit the payment for the Project via wire transfer.

Wire transfer/Payments are to be made to:

Wells Fargo Bank, N.A.
Account # 4834783896
ABA # 121000248
State of Florida Department of Financial Services
Bureau of Collateral Management
Re: DOT – K 11-78, Financial project # 446997-1-52-02

In order for FDOT to receive credit for the funds due to the DEPARTMENT, the reference line must contain "FDOT" and an abbreviated purpose, financial project number or LFA account number.

Once the wire transfer is complete, please contact Jennifer Bennett at 850-414-4861. In addition to calling Ms. Bennett, the PARTICIPANT shall send an email notification to D4-LFA@dot.state.fl.us stating the day and time the wire transfer was sent.

- B. The PARTICIPANT'S share of the accepted bid for the Project (hereinafter referred to as "Accepted Bid") and the DEPARTMENT'S work plus allowances is hereinafter defined as the "Total Accepted Bid". Allowances are hereby defined as contingency, mobilization (MOB), and Maintenance of Traffic (MOT). If the PARTICIPANT'S share of the accepted bid plus allowances is in excess of the advance deposit amount, the PARTICIPANT will provide an additional deposit within fourteen (14) calendar days of notification from the DEPARTMENT or prior to posting of the accepted bid, whichever is earlier, so that the total deposit is equal to the bid amount plus allowances. The DEPARTMENT will notify the PARTICIPANT as soon as it becomes apparent the accepted bid amount plus allowances are in excess of the advance deposit amount; however, failure of the DEPARTMENT to so notify the PARTICIPANT shall not relieve the PARTICIPANT from its obligation to pay for its full participation. If the PARTICIPANT cannot provide the additional deposit within fourteen (14) calendar days, a letter must be submitted to and approved by the DEPARTMENT'S Project Manager indicating when the deposit will be made and the DEPARTMENT'S written consent to the payment of the additional deposit and said date. The PARTICIPANT understands the request and approval of the additional time could delay the Project, and additional costs may be incurred due to delay of the Project. In the event of non-payment, the DEPARTMENT reserves the right to terminate this Agreement and remove the Project and the DEPARTMENT'S roadway work from the DEPARTMENT'S Work Program.
- C. If the PARTICIPANT'S payment for the accepted bid amount plus allowances is less than the advance deposit amount, the DEPARTMENT will refund the amount that the advance deposit exceeds the PARTICIPANT'S payment for the accepted bid amount plus allowances if such refund is requested by the PARTICIPANT in writing.
- D. Should Project modifications occur that increase the PARTICIPANT'S payment for the Project, the PARTICIPANT will be notified by the DEPARTMENT. The PARTICIPANT agrees to provide, without delay, in advance of the additional work being performed, adequate funds to ensure that cash on deposit with the DEPARTMENT is sufficient to fully fund the Project. The DEPARTMENT shall

notify the PARTICIPANT as soon as it becomes apparent the actual costs will overrun the award amount; however, failure of the DEPARTMENT to so notify the PARTICIPANT shall not relieve the PARTICIPANT from its obligation to pay for its full participation. Funds due from the PARTICIPANT, for the Project, not paid within forty (40) calendar days from the date of the invoice are subject to an interest charge at a rate established pursuant to *Section 55.03, F.S.*

- E. The DEPARTMENT intends to have its final and complete accounting of all costs incurred in connection with the work performed hereunder within three hundred sixty (360) days of final payment to the Contractor. The DEPARTMENT considers the Project and the resurfacing work complete when the final payment has been made to the Contractor, not when the construction (retrofit lighting) work is complete. All Project & construction cost records and accounts shall be subject to audit by a representative of the PARTICIPANT for a period of three (3) years after final close out of the Project and the resurfacing work. The PARTICIPANT will be notified of the final cost. Both parties agree that in the event the final accounting of total Project costs pursuant to the terms of this Agreement is less than the total deposits to date, a refund of the excess will be made by the DEPARTMENT to the PARTICIPANT. If the final accounting is not performed within three hundred sixty (360) days, the PARTICIPANT is not relieved from its obligation to pay.
 - F. In the event the final accounting of total Project costs indicate that the Project costs are greater than the total deposits to date, the PARTICIPANT will pay the additional amount within forty (40) calendar days from the date of the invoice from the DEPARTMENT. The PARTICIPANT agrees to pay interest at a rate as established pursuant to *Section 55.03, F.S.*, on any invoice not paid within forty (40) calendar days until the invoice is paid.
 - G. The payment of funds under this Agreement will be sent directly to the Department of Financial Services, Division of Treasury for deposit as provided in the Three Party Escrow Agreement between the PARTICIPANT, the DEPARTMENT, and the State of Florida, Department of Financial Services, Division of Treasury a copy of which is attached hereto and made a part hereof as **Exhibit B**.
6. Upon completion of the Project, the PARTICIPANT shall be responsible for the maintenance of the decorative lighting.
7. On December 12, 2021, the PARTICIPANT and the DEPARTMENT entered into a District Maintenance Memorandum of Agreement (MMA) whereby the PARTICIPANT agreed to maintain certain roadway improvements. The PARTICIPANT and the DEPARTMENT have mutually agreed to amend the MMA to include decorative lighting within the limits of this Project. The PARTICIPANT will comply with the provisions and terms set forth in the Maintenance Memorandum of Agreement (MMA) as amended. A copy of the amendment

is attached hereto and made a part hereof as **Exhibit C**. The terms of this paragraph shall survive the termination of this Agreement.

8. In the event it becomes necessary for either party to institute suit for the enforcement of the provisions of this Agreement, each party shall be responsible to pay their own attorney fees and court costs. Venue with respect to any such litigation shall be in Broward County.
9. This Agreement and any interest herein shall not be assigned, transferred, or otherwise encumbered by the PARTICIPANT under any circumstances without the prior written consent of the DEPARTMENT. However, this Agreement shall run to the DEPARTMENT and its successors.
10. Except as otherwise set forth herein, this Agreement shall continue in effect and be binding to both the PARTICIPANT and the DEPARTMENT until the Project (FM# 446997-1-52-02) is completed as evidenced by the written acceptance of the DEPARTMENT.
11. The PARTICIPANT warrants that it has not employed or obtained any company or person, other than bona fide employees of the PARTICIPANT, to solicit or secure this Agreement, and it has not paid or agreed to pay any company, corporation, individual or firm, other than a bona fide employee employed by the PARTICIPANT. For breach or violation of this provision, the DEPARTMENT shall have the right to terminate the Agreement without liability.
12. The PARTICIPANT/ Vendor/ Contractor, if applicable:
 - (A) shall utilize the U.S. Department of Homeland Security's E-verify system to verify the employment eligibility of all new employees hired by the PARTICIPANT/ Vendor/Contractor during the term of the contract; and
 - (B) shall 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.
13. This Agreement is governed by and construed in accordance with the laws of the State of Florida.
14. This document incorporates and includes all prior negotiations, correspondence, conversations, agreements, or understandings applicable to the matters contained herein, and the parties agree that there are no commitments, agreements or understandings concerning the subject matter of this agreement that are not contained in this document. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representation or agreements whether oral or written. It is further agreed that no modification, amendment, or alteration in the terms and conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

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

If to the DEPARTMENT:

Florida Department of Transportation - District Four
3400 West Commercial Blvd.
Fort Lauderdale, Florida 33309-3421
Attn: Leos A. Kennedy, Jr.
With a copy to: Ronald Wallace, P.E.
A second copy to: Office of the General Counsel

If to the PARTICIPANT:

City of Hallandale Beach
400 South Federal Highway
Hallandale Beach, FL 33009
Attn: Mr. Peter Kunen
Federal Employer ID No.: F-596-000-333

The remainder of this page is blank.

IN WITNESS WHEREOF, this Agreement is to be executed by the parties below for the purposes specified herein. Authorization has been given to enter into and execute this Agreement by Resolution No. _____, hereto attached.

CITY OF HALLANDALE

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

BY: _____
NAME: _____
TITLE: _____

BY: _____
STEVE C. BRAUN, P.E.
DIRECTOR OF TRANSPORTATION DEVELOPMENT

ATTEST:

LEGAL REVIEW:

CITY CLERK (SEAL)

BY: _____
FRANCINE STEELMAN
OFFICE OF THE GENERAL COUNSEL

APPROVED:

APPROVED:

BY: _____
CITY ATTORNEY

BY: _____
DISTRICT PROGRAM MANAGEMENT ADMINISTRATOR

**EXHIBIT A
SCOPE OF SERVICES
FM# 446997-1-52-02**

The Department's work involves upgrading several intersections in Broward County by retrofitting LED lighting to enhance pedestrian safety at signalized crosswalks.

The scope of work performed on behalf of the City of Hallandale Beach consists of providing decorative poles and fixtures to match the existing poles and fixtures at the following intersections within the City of Hallandale Beach:

- US 1 @ SE 3 ST,
- US 1 @ NE 3 ST,
- US 1 @ ATLANTIC SHORES BLVD

POLE DATA										
POLE NO.	CIRCUIT	NORTHING	EASTING	ARM LENGTH	MOUNTING HEIGHT	LUMINAIRE WATTAGE	POLE SETBACK	FOUNDATION	PAY ITEM	REMARKS
INTERSECTION 1: US-1 / SR-5 & SE 3RD STREET (HALLANDALE BEACH)										
HB-1-1	HB-1-A	937907.08	599969.12	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-1-2	HB-1-B	937894.20	600152.27	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-1-3	HB-1-B	938023.55	600160.47	8' / 4'	40' / 20'	92W / 51W	BEHIND SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
EX.	EX.	938037.65	599997.27	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
INTERSECTION 2: US-1 / SR-5 & NE 3RD STREET (HALLANDALE BEACH)										
HB-2-1	EX. CKT "2"	937895.56	602634.30	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
"6" (EX.)	EX. CKT "1"	937815.47	602690.78	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
"7" (EX.)	EX. CKT "2"	937898.57	602829.87	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
INTERSECTION 3: US-1 / SR-5 & ATLANTIC SHORES BOULEVARD (HALLANDALE BEACH)										
HB-3-1	EX. CKT "4"	937829.79	604653.86	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-3-2	EX. CKT "4"	937857.33	604799.14	8' / 4'	40' / 20'	92W / 51W	IN FRONT OF SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-3-3	EX. CKT "3"	937734.63	604822.92	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
"18" (EX.)	EX. CKT "3"	937727.11	604682.23	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
"19" (EX.)	EX. CKT "4"	937832.34	604849.95	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH

Exhibit B THREE PARTY ESCROW AGREEMENT

THIS AGREEMENT is made and entered into by and between the State of Florida, Department of Transportation ("FDOT"), City of Hallandale Beach ("Participant"), and the State of Florida, Department of Financial Services, Division of Treasury ("Escrow Agent"), and shall become effective upon the Agreement's execution by Escrow Agent.

WHEREAS, FDOT and Participant are engaged in the following project ("Project"):

Project Name: Construction (installation) of decorative lighting
Project #: 446997-1-52-02
County: Broward

WHEREAS, FDOT and Participant desire to establish an escrow account for the project.

NOW THEREFORE, in consideration of the premises and the covenants contained herein, the parties agree to the following:

1. An initial deposit will be made into an interest bearing escrow account established hereunder for the purposes of the Project. The escrow account will be opened with the Escrow Agent on behalf of FDOT upon Escrow Agent's receipt and execution of this Agreement.
2. Other deposits to the escrow account may be made during the life of this Agreement.
3. Deposits will be delivered in accordance with instructions provided by the Escrow Agent to the FDOT for deposit into the escrow account. A wire transfer or ACH deposit is the preferred method of payment and should be used whenever possible.
4. FDOT's Comptroller or designee shall be the sole signatory on the escrow account with the Escrow Agent and shall have sole authority to authorize withdrawals from the account. Withdrawals will only be made to FDOT or the Participant in accordance with the instructions provided to the Escrow Agent by FDOT's Comptroller or designee.

Moneys in the escrow account will be invested in accordance with section 17.61, Florida Statutes. The Escrow Agent will invest the moneys expeditiously. Income is only earned on the moneys while invested. There is no guaranteed rate of return. Investments in the escrow account will be assessed a fee in accordance with Section 17.61(4)(b), Florida Statutes. All income of the investments shall accrue to the escrow account.

6. Unless instructed otherwise by FDOT, all interest accumulated in the escrow account shall remain in the account for the purposes of the Project.
7. The Escrow Agent agrees to provide written confirmation of receipt of funds to FDOT. FDOT agrees to provide a copy of such written confirmation to Participant upon request.
8. The Escrow Agent further agrees to provide quarterly reports to FDOT concerning the escrow account. FDOT agrees to provide a copy of such quarterly reports to Participant upon request.
9. The Escrow Agent shall not be liable for any error of judgment or for any act done or omitted by it in good faith, or for anything which it may in good faith do or refrain from doing in connection herewith.
10. Escrow Agent shall have no liability for any claim, cost, expense, damage or loss due to the acts or omissions of FDOT and Participant, nor from any separate agreements between FDOT and Participant and shall have no responsibility to monitor or enforce any responsibilities herein or in any separate agreements associated with this Agreement between FDOT and Participant.
11. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Florida.
12. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.
13. This Agreement shall terminate upon disbursement by the Escrow Agent of all money held by it in the escrow account in accordance with the instructions given by FDOT's Comptroller or designee and notification from FDOT to Escrow Agent that the account is to be closed.

The remainder of this page is blank.

IN WITNESS WHEREOF, the parties have duly executed the Agreement on the date(s) below.

For FDOT (signature)

For PARTICIPANT (signature)

Name and Title

Name

59-3024028

Federal Employer I.D. Number

Title

Date

F-596-000-333-008

Federal Employer I.D. Number

Date

FDOT Legal Review:

For Escrow Agent (signature)

Name and Title

Date

THIS IS AN EXHIBIT ONLY ... NOT FOR EXECUTION!

EXHIBIT C

**MAINTENANCE MEMORANDUM OF
AGREEMENT WITH THE
CITY OF HALLANDALE**

**DISTRICT FOUR (4) AMENDMENT NUMBER ONE (1) TO STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION MAINTENANCE
MEMORANDUM OF AGREEMENT**

THIS AMENDMENT Number One (1) to the Agreement dated 12/21/2021, made and entered into this _____ by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION** hereinafter called the **DEPARTMENT** and the **City Hallandale Beach**, a municipal corporation existing under the Laws of Florida, hereinafter called the **AGENCY**.

WITNESSETH

WHEREAS, the parties entered into the Maintenance Memorandum of Agreement dated, December 21, 2021, with the **AGENCY** for the purpose of maintaining: all existing and new decorative or non-standard lights; and,

WHEREAS, the **AGENCY** intends to install additional new decorative or non-standard lights, in the right-of-way along a portion of SR 5/US-1 Federal Highway under FM # 446997-1-52-01.

WHEREAS, it is the intent of the **AGENCY** and the **DEPARTMENT** that the **AGENCY** shall maintain: all decorative and non-standard lights, hereinafter referred as "**IMPROVEMENTS**" within the project limits along SR 5/US-1 Federal Highway from Mile Post (M.P.) 0.026 to M.P. 1.536 and,

WHEREAS the installation of additional **IMPROVEMENTS** extends the limits as described in **Exhibit A** of the Original Agreement dated December 21, 2021.

WHEREAS, the **AGENCY** by Resolution No. 2021-140 dated 10/20/2021, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorized its officers to do so; and,

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

1. **Exhibit "A"** of the Maintenance Memorandum of Agreement dated December 21, 2021, shall be amended to include the additional areas as follows: SR 5/US-1 Federal Highway from M.P. 0.026 to M.P. 1.536, as set forth in Exhibit A attached to this Amendment.
2. The **AGENCY** shall construct additional **IMPROVEMENTS** along SR 5/US-1 Federal Highway from M.P. 0.026 to M.P. 1.536 as set forth in **Exhibit A** attached to this Amendment in accordance with the plans attached as **Exhibit B**.
3. The **AGENCY** shall agree to maintain the additional **IMPROVEMENTS** in the **AGREEMENT** described above.
4. Except as modified by this Amendment, all terms and conditions of this original

SECTION No.: 86010000
S.R. No.: SR-5/US-1
FM No.: 446997-1-52-01
COUNTY: BROWARD

AGREEMENT and all Amendments thereto shall remain in full force and effect.

5. **LIST OF EXHIBITS**

Exhibit A – Project location, description and aerial image
Exhibit B – Project plans

THIS IS AN EXHIBIT ONLY ... NOT FOR EXECUTION!

SECTION No.: 86010000
S.R. No.: SR-5/US-1
FM No.: 446997-1-52-01
COUNTY: BROWARD

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

CITY OF HALLANDALE BEACH

By: _____
Chairperson/Mayor/Manager

Date: _____

Attest: _____ (SEAL)
City Clerk

Legal Approval

Attorney

Date

THIS IS AN EXHIBIT ONLY... NOT FOR EXECUTION!

SECTION No.: 86010000
S.R. No.: SR-5/US-1
FM No.: 446997-1-52-01
COUNTY: BROWARD

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

DEPARTMENT:

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

Sign: _____
Director of Operations

Print Name: Paul A. Lampley

Date: _____

Approval as to Form:

Sign: _____
District General Counsel

Print Name: _____

Date: _____

THIS IS AN EXHIBIT ONLY... NOT FOR EXECUTION!

EXHIBIT A

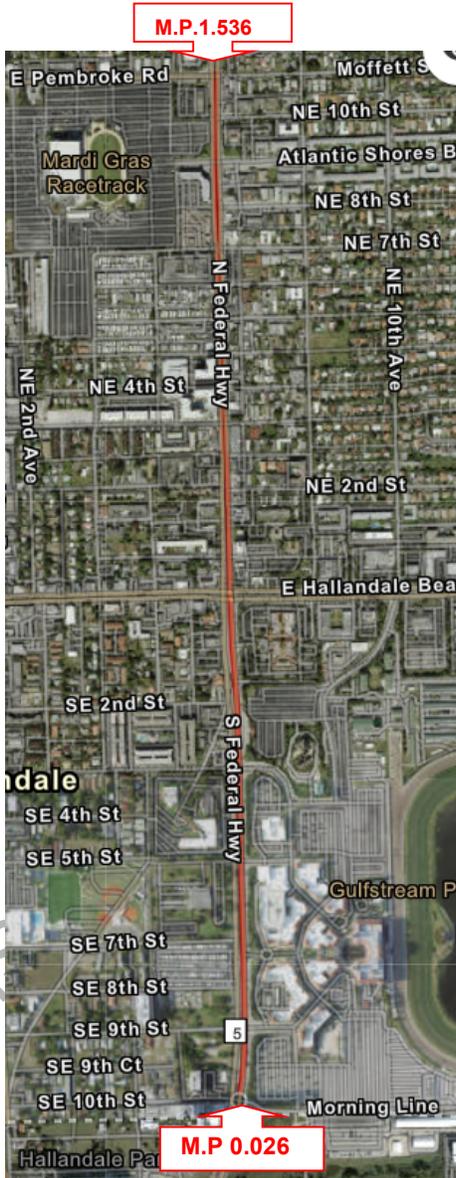
PROJECT LOCATION, DESCRIPTION AND AERIAL IMAGE

I. Location of additional IMPROVEMENTS:

The additional **IMPROVEMENTS** associated with this Agreement are within the **DEPARTMENT's** right-of-way, within limits of the City of Hallandale Beach, Florida, along State Road 5/US-1 Federal Highway from Mile Post (M.P.) 0.026 to M.P. 1.536.

II. Description of Work:

The proposed project consists of new installation of decorative and non-standard lights.



III. Entire limits of IMPROVEMENTS

The entire limits of the **IMPROVEMENTS** that shall be maintain by the **AGENCY** are within the **DEPARTMENT's** right-of-way, within limits of the City of Hallandale Beach, Florida, along State Road 5/US-1 Federal Highway from Mile Post (M.P.) 0.026 to M.P.3.15.

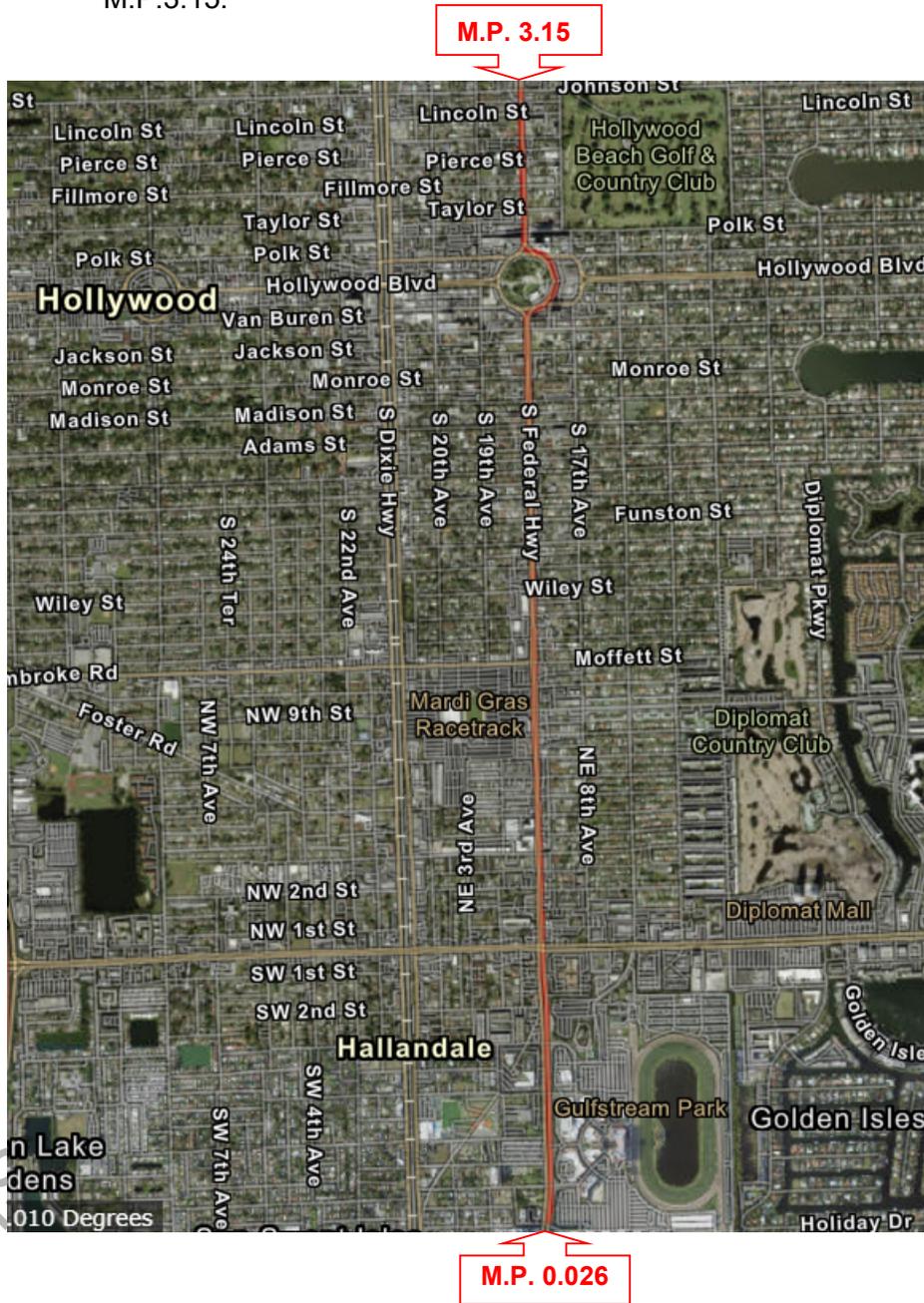


EXHIBIT B

Lighting Plans prepared by Slade G. Engstrom P.E., Transystems Corporation Consultants, dated August 8, 2022, as approved by the **DEPARTMENT**.

Construction Plans (attached)

Sheets included:

PDF Page Number (#)	Plan Sheet (#)	Sheet Description
8	L-1	KEY SHEET
9	L-2	LOCATION MAP
10	L-2A	NOTES FOR REVIEWERS
11	L-3	SIGNATURE SHEET
12	L-4	SUMMARY OF PAY ITEMS
13	L-5	TABULATION OF QUANTITIES
14	L-6	LEGEN AND GENERAL NOTES
15	L-7	POLE DATA
16-24	L-8 THRU L-16	LIGHTING PLANS
25-26	L-17 THRU L-18	SERVICE POINT DETAILS
27-31	L-19 THRU L-23	SPREAD FOOTING DETAILS
30-34	L-24 THRU L-26	TEMPORARY TRAFFIC CONTROL PLANS
35-38	SQ-1 THRU SQ-4	SUMMARY OF QUANTITIES

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CONTRACT PLANS COMPONENTS

LIGHTING PLANS

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

CONTRACT PLANS

FINANCIAL PROJECT ID 446997-1-52-01

(FEDERAL FUNDS)

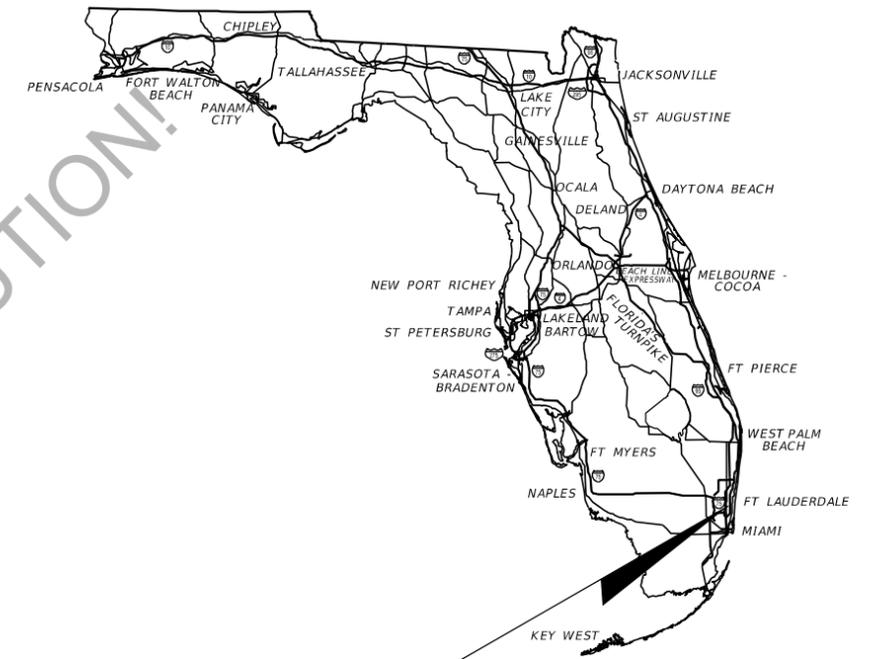
BROWARD COUNTY (86000)

INTERSECTION LIGHTING RETROFIT IMPROVEMENTS

LIGHTING PLANS

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	LOCATION MAP
L-2A	NOTES FOR REVIEWERS
L-3	SIGNATURE SHEET
L-4	SUMMARY OF PAY ITEMS
L-5	TABULATION OF QUANTITIES
L-6	LEGEND AND GENERAL NOTES
L-7	POLE DATA
L-8 - L-16	LIGHTING PLANS
L-17 - L-18	SERVICE POINT DETAILS (1) - (2)
L-19 - L-23	SPREAD FOOTING DETAILS
L-24 - L-26	TEMPORARY TRAFFIC CONTROL PLANS
SQ-1 - SQ-4	SUMMARY OF QUANTITIES



LOCATION OF PROJECT
<https://goo.gl/maps/u6g3kyHJytrhYiXs9>

SEE SHEET L-2 FOR LOCATION MAP

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

LIGHTING PLANS

ENGINEER OF RECORD:

SLADE G. ENGSTROM, P.E. NO. 82734
TRANSYSTEMS CORPORATION CONSULTANTS
3230 W COMMERCIAL BLVD., SUITE 450
FORT LAUDERDALE, FL 33309
CONTRACT NO.: C9Z83
VENDOR NO.: F430839725

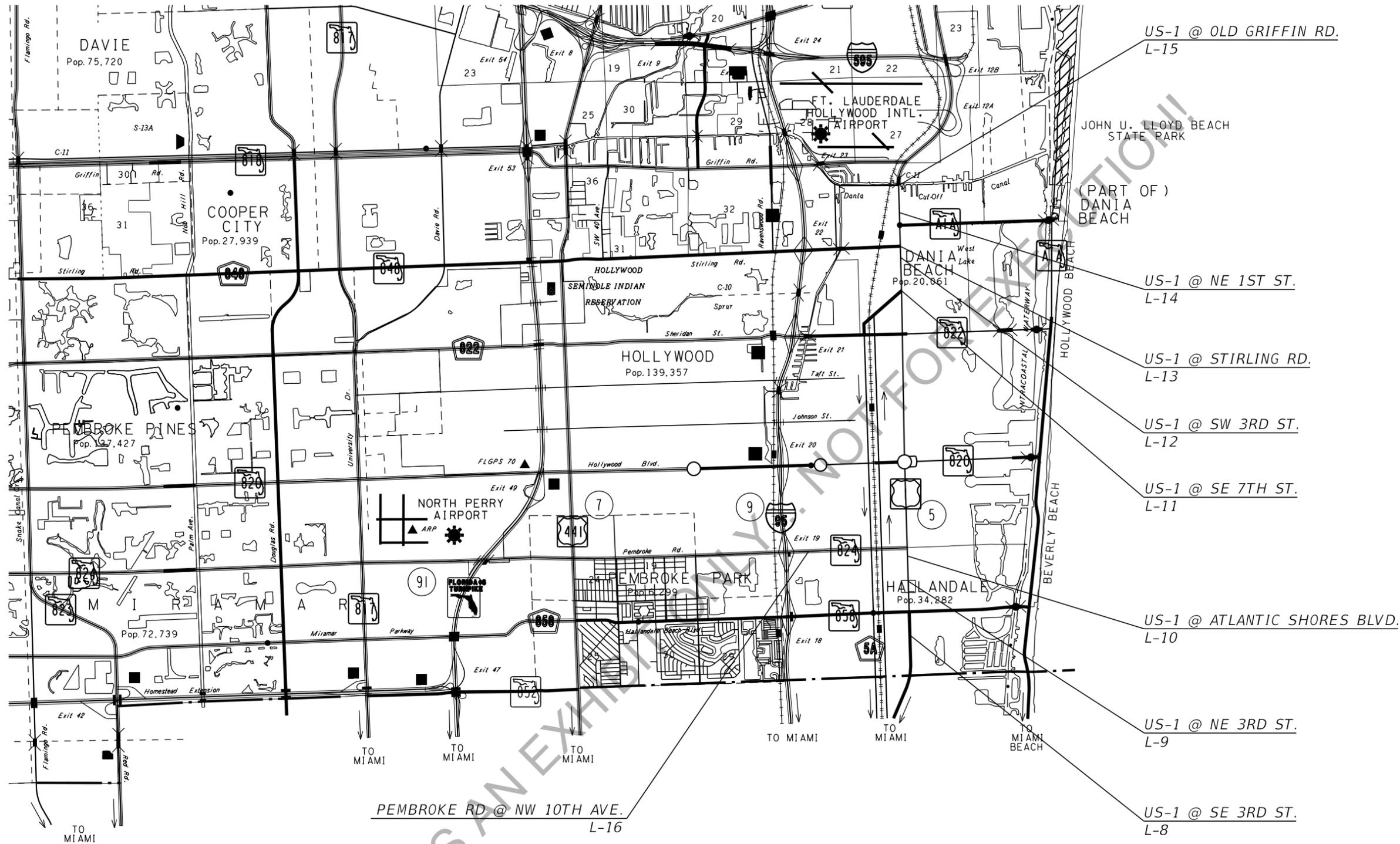
FDOT PROJECT MANAGER:

ROBERT BOSTIAN, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	23	L-1

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REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 9	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LOCATION MAP	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-2
					N/A	BROWARD	446997-1-52-01		

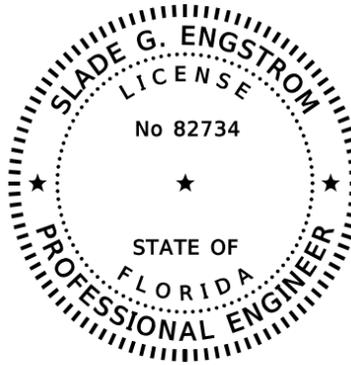
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NOTES FOR REVIEWERS:

1. COORDINATION WITH FPL IS ONGOING. ADDITIONAL INFORMATION ABOUT TRANSFORMERS, LOAD CENTERS, VOLTAGES, AND ACCESS TO POWER SOURCE AT US-1/SR 5 AND SE 3RD STREET WILL BE PROVIDED IN THE BIDDABILITY PLANS.
2. HORIZONTAL AND VERTICAL LIGHTING RETROFIT CRITERIA WAS NOT FULLY ACHIEVED AT VARIOUS LOCATIONS DUE TO THE INABILITY TO PLACE NEW LIGHT POLES, GIVEN RIGHT OF WAY LIMITATIONS, UTILITY CONFLICTS, BUILDING OVERHANGS, AND OTHER OBSTRUCTIONS. SEE LIGHTING DESIGN ANALYSIS REPORT FOR MORE INFORMATION.
3. AVAILABLE VOLTAGES FOR LOAD CENTERS HB-1, DB-3 & DB-4 ARE UNKNOWN AT THIS TIME. CALCULATIONS ARE MADE ASSUMING 120/240V SERVICE. COORDINATION WITH FPL IS ONGOING.
4. PAY ITEM 0715-512-840 HAS BEEN REQUESTED AND IS PENDING APPROVAL TO BE CREATED. A MODIFIED SPECIAL PROVISION IS IN PROGRESS FOR THIS PAY ITEM.

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REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 10	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>NOTES FOR REVIEWERS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-2A
					N/A	BROWARD	446997-1-52-01		



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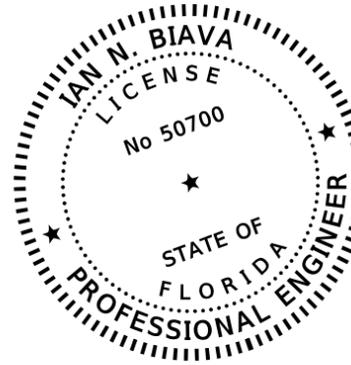
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TRANSYSTEMS CORPORATION CONSULTANTS
3230 W COMMERCIAL BLVD., SUITE 450
FORT LAUDERDALE, FL 33309
SLADE G. ENGSTROM, P.E. NO. 82734

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-1	KEY SHEET
L-2	PROJECT LAYOUT
L-2A	NOTES FOR REVIEWERS
L-3	SIGNATURE SHEET
L-4	SUMMARY OF PAY ITEMS
L-5	TABULATION OF QUANTITIES
L-6	GENERAL NOTES AND LEGEND
L-7	POLE DATA
L-8 - L-16	LIGHTING PLANS
L-17 - L-18	SERVICE POINT DETAILS (1) - (2)



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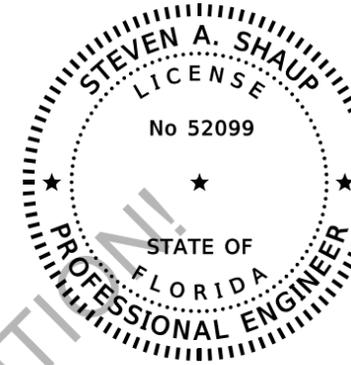
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TRANSYSTEMS CORPORATION CONSULTANTS
3230 W COMMERCIAL BLVD., SUITE 450
FORT LAUDERDALE, FL 33309
IAN N. BIAVA, P.E. NO. 50700

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-3	SIGNATURE SHEET
L-24 - L-26	TEMPORARY TRAFFIC CONTROL PLANS
SQ-1 - SQ-4	SUMMARY OF QUANTITIES



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TRANSYSTEMS CORPORATION CONSULTANTS
3230 W COMMERCIAL BLVD., SUITE 450
FORT LAUDERDALE, FL 33309
STEVEN A. SHAUP, P.E. NO. 52099

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE RULE 61G15-23.004, F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-3	SIGNATURE SHEET
L-19 - L-23	SPREAD FOOTING DETAILS

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REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 11	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	SIGNATURE SHEET

08/10/2022 11:50:16 AM

FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 446997-1-52-01						
LEAD PROJECT : 446997-1-52-01		DISTRICT : 04		COUNTY/SECTION : 86010000		
PROJECT(S) : 44699715201			COUNTY : BROWARD			
0100 SUMMARY OF STRUCTURES						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	44699715201	QUANTITY TOTAL
		0400- 4- 5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	CY	1.000	1.000
		0415- 1- 6	REINFORCING STEEL- MISCELLANEOUS	LB	1.000	1.000

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FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 446997-1-52-01						
LEAD PROJECT : 446997-1-52-01		DISTRICT : 04		COUNTY/SECTION : 86010000		
PROJECT(S) : 44699715201			COUNTY : BROWARD			
0200 SUMMARY OF ROADWAY						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	44699715201	QUANTITY TOTAL
		0101- 1-	MOBILIZATION 44699715201	LS	1.000	1.000
		0102- 1-	MAINTENANCE OF TRAFFIC 44699715201	(LS)	1.000	1.000
		0102- 14-	TRAFFIC CONTROL OFFICER	HR	1.000	1.000
		0102- 60-	WORK ZONE SIGN	ED	1.000	1.000
		0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	1.000	1.000
		0102- 74- 8	CHANNELIZING DEVICE- PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	FD	1.000	1.000
		0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	1.000	1.000
		0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	1.000	1.000
		0102-115-	TYPE III BARRICADE	ED	1.000	1.000
P		0108- 1-	MONITOR EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING 44699715201	LS	1.000	1.000
		0110- 1- 1	CLEARING & GRUBBING 44699715201	(LS)	1.000	1.000
		0110- 4- 10	REMOVAL OF EXISTING CONCRETE	SY	1.000	1.000
		0522- 1-	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	1.000	1.000
		0522- 2-	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	1.000	1.000

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FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT SUMMARY OF PAY ITEMS FOR PROJECT: 446997-1-52-01						
LEAD PROJECT : 446997-1-52-01		DISTRICT : 04		COUNTY/SECTION : 86010000		
PROJECT(S) : 44699715201			COUNTY : BROWARD			
0400 SUMMARY OF LIGHTING						
SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	44699715201	QUANTITY TOTAL
		0630- 2- 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1.000	1.000
		0630- 2- 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1.000	1.000
		0635- 2- 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	1.000	1.000
		0639- 1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1.000	1.000
		0639- 2- 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	1.000	1.000
		0641- 2- 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA	1.000	1.000
		0715- 1- 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	1.000	1.000
		0715- 1- 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF	1.000	1.000
		0715- 1- 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	1.000	1.000
		0715- 7- 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1.000	1.000
		0715- 11-500	LUMINAIRE, REMOVE	EA	1.000	1.000
P		0715- 21- 2	LIGHTING REPAIRS AND RETROFITS, LED RETROFIT KIT FOR EXISTING LUMINAIRE	EA	1.000	1.000
P		0715- 62-352	LIGHT POLE COMPLETE, F&I, STANDARD POLE SPECIAL FOUNDATION, 40' MOUNTING HEIGHT, 15' ARM LENGTH	EA	1.000	1.000
		0715- 69-000	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	1.000	1.000
		0715-500- 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	1.000	1.000

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS										TOTAL THIS TABLE	
			L-8		L-9		L-10		L-11		L-12		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF												
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF												
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA												
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS												
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF												
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA												
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF												
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF												
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF												
0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA												
0715 11500	LUMINAIRE, REMOVE	EA												
0715 21 2	LIGHTING REPAIRS AND RETROFITS, LED RETROFIT KIT FOR EXISTING LUMINAIRE	EA												
0715 62352	LIGHT POLE COMPLETE, F&I, STANDARD POLE SPECIAL FOUNDATION, 40' MOUNTING HEIGHT, 15' ARM LENGTH	EA												
0715 69000	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA												
0715500 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA												
0715512840	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, PAINTED STEEL, 40'	EA												

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS								TOTAL THIS TABLE		GRAND TOTAL	
			L-13		L-14		L-15		L-16		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF												
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF												
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA												
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS												
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF												
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA												
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF												
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF												
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF												
0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA												
0715 11500	LUMINAIRE, REMOVE	EA												
0715 21 2	LIGHTING REPAIRS AND RETROFITS, LED RETROFIT KIT FOR EXISTING LUMINAIRE	EA												
0715 62352	LIGHT POLE COMPLETE, F&I, STANDARD POLE SPECIAL FOUNDATION, 40' MOUNTING HEIGHT, 15' ARM LENGTH	EA												
0715 69000	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA												
0715500 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA												
0715512840	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, PAINTED STEEL, 40'	EA												

PAY ITEM NOTES

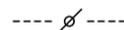
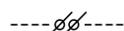
- 0635-2-11: CONDUIT ROUTING AND PULL BOX LOCATIONS CAN BE ADJUSTED TO MINIMIZE CONFLICTS WITH EXISTING UTILITIES.
- 0715-61352: POLE IS TO INCLUDE A FESTOON BOX OPENING TO ACCOMMODATE THE INSTALLATION OF A GFI RECEPTACLE ON THE POLE, AT A MOUNTING HEIGHT BASED ON MANUFACTURER RECOMMENDATIONS. GFI RECEPTACLE IS SUBSIDIARY TO 0715-61352, NO DIRECT PAYMENT WILL BE MADE.
- 0715-62352: POLE IS TO INCLUDE A FESTOON BOX OPENING TO ACCOMMODATE THE INSTALLATION OF A GFI RECEPTACLE ON THE POLE, AT A MOUNTING HEIGHT BASED ON MANUFACTURER RECOMMENDATIONS. GFI RECEPTACLE IS SUBSIDIARY TO 0715-62352, NO DIRECT PAYMENT WILL BE MADE.
- 0715-512840: POLE IS TO INCLUDE A FESTOON BOX OPENING TO ACCOMMODATE THE INSTALLATION OF A GFI RECEPTACLE ON THE POLE, AT A MOUNTING HEIGHT BASED ON MANUFACTURER RECOMMENDATIONS. GFI RECEPTACLE IS SUBSIDIARY TO 0715-512840, NO DIRECT PAYMENT WILL BE MADE.

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 13			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>N/A</td> <td>BROWARD</td> <td>446997-1-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	N/A	BROWARD	446997-1-52-01	SHEET NO. L-5	
REVISIONS																													
DATE	DESCRIPTION	DATE	DESCRIPTION																										
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																											
N/A	BROWARD	446997-1-52-01																											

LEGEND

SYMBOLS

DESCRIPTION

-  DECORATIVE STREET LIGHT POLE INCLUDING ROADWAY AND PEDESTRIAN LEVEL LUMINAIRES. ROADWAY LEVEL LUMINAIRE IS MOUNTED AT 40 FT WITH 8 FT BRACKET ARM AND 92 W LED 3000K LUMINAIRE DESIGNED FOR TYPE III DISTRIBUTION. ROADWAY LEVEL LUMINAIRE ANALYZED USING HOLOPHANE ESPLANADE ESL3 TEARDROP FIXTURE (ESL3_P30S_30K_XXXXX_TG3.IES). PEDESTRIAN LEVEL LUMINAIRE IS MOUNTED AT 20 FT WITH 4 FT BRACKET ARM AND 51 W LED 3000K LUMINAIRE DESIGNED FOR TYPE IV DISTRIBUTION. ROADWAY LEVEL LUMINAIRE ANALYZED USING HOLOPHANE ESPLANADE ESPL2 TEARDROP FIXTURE (ESPL2_P30_30K_XX_TG4.IES). INTERNAL LED DRIVERS WIRED FOR 120-277 VOLT OPERATION. MOUNTED ON DECORATIVE POLE SPREAD FOOTING, SEE SPREAD FOOTING DETAILS. DECORATIVE POLE MODEL: HOLOPHANE RTFS 34 10J FST 8S MPA BA CSB BK RFD330579 GFI RECEPTACLE: HOLOPHANE FGIUS BK
-  STANDARD ALUMINUM POLE, ARM, AND LUMINAIRE, PULL BOX AND SLAB. 295 W LED 3000K LUMINAIRE DESIGNED FOR TYPE IV DISTRIBUTION. INTERNAL LED DRIVER WIRED FOR XXX VOLT OPERATION. ANALYZED USING AEL AUTOBAHN ATB2 P605 FIXTURE (ATB2_P605_R4_3K.IES). POLE MOUNTING HEIGHT IS 40 FT WITH 15 FT ARM. PULL BOX LOCATION IS SHOWN SCHEMATICALLY AND MAY BE ADJUSTED TO AVOID FIELD OBSTRUCTIONS, SEE STANDARD INDEX 715-001 (SHEET 3 OF 3). MOUNTED ON SPREAD FOOTING, SEE SPREAD FOOTING DETAILS.
-  LED LUMINAIRE RETROFIT ON EXISTING LIGHT POLE. 295 W LED 3000K LUMINAIRE DESIGNED FOR TYPE IV DISTRIBUTION. INTERNAL LED DRIVER WIRED FOR XXX VOLT OPERATION. ANALYZED USING AEL AUTOBAHN ATB2 P605 FIXTURE (ATB2_P605_R4_3K.IES).
-  LED LUMINAIRE RETROFIT ON EXISTING SIGNAL POLE. 50 W LED 3000K LUMINAIRE DESIGNED FOR TYPE III DISTRIBUTION. INTERNAL LED DRIVER WIRED FOR XXX VOLT OPERATION. ANALYZED USING AEL AUTOBAHN ATBS FIXTURE (ATBS_P20_XXXXX_R3_3K.IES).
-  FPL LED LUMINAIRE ATTACHMENT ON EXISTING UTILITY POLE. INSTALLATION TO BE PERFORMED BY FPL. ANALYZED USING AEL AUTOBAHN ATB2 FIXTURE (ATB2_P40X_MVOLT_R4_3K.IES). ANALYZED WITH PROPOSED ATTACHMENT MOUNTING HEIGHT OF 25 FT WITH 6 FT ARM.
-  FPL LED LUMINAIRE RETROFIT ON EXISTING FPL LIGHT POLE. INSTALLATION TO BE PERFORMED BY FPL. ANALYZED USING AEL AUTOBAHN ATB2 FIXTURE (ATB2_P604_R4_3K.IES).
-  EXISTING LIGHT POLE TO REMAIN.
-  EXISTING LIGHT POLE TO BE REMOVED.
-  EXISTING UTILITY LUMINAIRE ATTACHMENT.
-  2" SCHEDULE 40 PVC CONDUIT(S) (OPEN TRENCH) WITH THWN-2 CONDUCTORS INSIDE (CONDUCTOR SIZE AND NUMBER AS SHOWN ON PLAN SHEETS).
-  2" SCHEDULE 40 PVC CONDUIT(S) (DIRECTIONAL BORE) WITH THWN-2 CONDUCTORS INSIDE (CONDUCTOR SIZE AND NUMBER AS SHOWN ON PLAN SHEETS).
-  EXISTING LIGHTING CONDUIT TO REMAIN.
-  EXISTING LIGHTING CONDUIT TO BE ABANDONED, LIGHTING CONDUCTORS TO BE REMOVED.
-  PROPOSED LOAD CENTER MOUNTED ON SPREAD FOOTING (SEE SERVICE POINT DETAILS).
-  PULL BOX OF COMPOSITE TYPE.
-  EXISTING PULL BOX.
-  EXISTING FPL POLE MOUNTED TRANSFORMER.

CONVENTIONAL LIGHTING DESIGN CRITERIA

AVG INITIAL INTENSITY (HORIZONTAL)	1.5 FOOTCANDLES (STD) 1.0 FOOTCANDLES (MIN)
AVG INITIAL INTENSITY (VERTICAL)	1.5 FOOTCANDLES (STD) 1.0 FOOTCANDLES (MIN)
UNIFORMITY RATIO, AVG/MIN	4:1 OR LESS
UNIFORMITY RATIO, MAX/MIN	10:1 OR LESS
WIND SPEED	160 MPH

GENERAL NOTES

1. EXISTING LIGHTING CIRCUITS SHALL BE FUNCTIONAL DURING NIGHT-TIME HOURS FOR THE DURATION OF CONSTRUCTION.
2. ALL NEW SPLICES SHALL BE MADE IN EXISTING OR PROPOSED PULL BOXES.
3. MAINTAIN PEDESTRIAN SIDEWALK ACCESS ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. MAINTAIN BUSINESS ACCESS DURING CONSTRUCTION.

4. UTILITY / AGENCY OWNERS:		
COMPANY	CONTACT	PHONE NUMBER
BCTED	LEE BILLINGSLEY	(954) 357-6408
BCTED SIGNALS	ALEXANDER VICKERS	(954) 847-2701
BCTED NETWORK COMMUNICATIONS	ROBERT BLOUNT	(954) 847-2745
CENTURYLINK-LUMEN	ALLEN ATEN	(850) 599-1257 / (870) 599-1524
CITY OF DANIA BEACH	PATRICIA VARNEY	(954) 924-3600
CITY OF HALLANDALE BEACH	STEVE WOL / LOUIS GRANDA	(954) 457-1629 / (954) 593-8310
CITY OF HOLLYWOOD PUBLIC UTILITIES DEPT.	ALBERT PEREZ / STEVE JOSEPH	(954) 967-4455
CITY OF PEMBROKE PINES	GEORGE WRVES	(954) 435-6582
CITY OF SUNRISE	KATHY CRISCI	(954) 746-3277
FPL TRANSMISSION	SHAVONTI ARCHER	(561) 904-3707
HOTWIRE COMMUNICATIONS	WALTER SANCHO-DAVILA	(954) 699-0900
SPRINT	MARK D. CALDWELL	(321) 287-9942
TECO GAS	DAVID RIVERA	(954) 453-0794
VERIZON	JOHN MCNIEL	(863) 965-6438
WINDSTREAM COMMUNICATIONS	DOUGLAS PICKLE	(407) 835-0341

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-6
				N/A	BROWARD	446997-1-52-01			

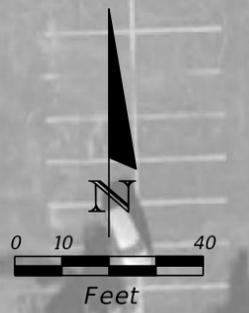
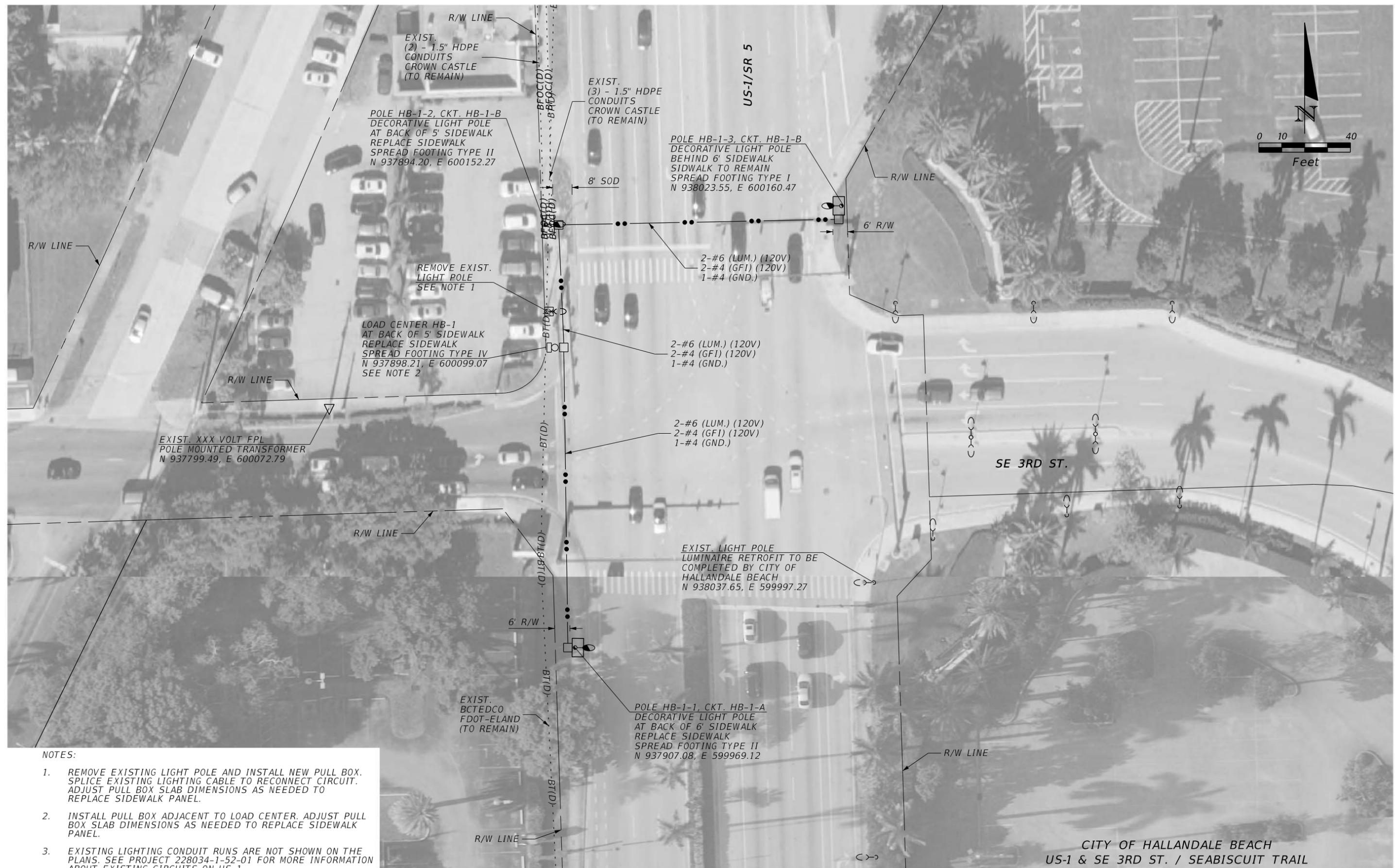
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

POLE DATA

POLE NO.	CIRCUIT	NORTHING	EASTING	ARM LENGTH	MOUNTING HEIGHT	LUMINAIRE WATTAGE	POLE SETBACK	FOUNDATION	PAY ITEM	REMARKS
INTERSECTION 1: US-1 / SR-5 & SE 3RD STREET (HALLANDALE BEACH)										
HB-1-1	HB-1-A	937907.08	599969.12	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-1-2	HB-1-B	937894.20	600152.27	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-1-3	HB-1-B	938023.55	600160.47	8' / 4'	40' / 20'	92W / 51W	BEHIND SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
EX.	EX.	938037.65	599997.27	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
INTERSECTION 2: US-1 / SR-5 & NE 3RD STREET (HALLANDALE BEACH)										
HB-2-1	EX. CKT "2"	937895.56	602634.30	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
"6" (EX.)	EX. CKT "1"	937815.47	602690.78	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
"7" (EX.)	EX. CKT "2"	937898.57	602829.87	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
INTERSECTION 3: US-1 / SR-5 & ATLANTIC SHORES BOULEVARD (HALLANDALE BEACH)										
HB-3-1	EX. CKT "4"	937829.79	604653.86	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-3-2	EX. CKT "4"	937857.33	604799.14	8' / 4'	40' / 20'	92W / 51W	IN FRONT OF SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
HB-3-3	EX. CKT "3"	937734.63	604822.92	8' / 4'	40' / 20'	92W / 51W	IN SIDEWALK	DECORATIVE SPREAD		DECORATIVE POLE W / ROADWAY & PEDESTRIAN LUMINAIRES
"18" (EX.)	EX. CKT "3"	937727.11	604682.23	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
"19" (EX.)	EX. CKT "4"	937832.34	604849.95	EX. / EX.	EX. / EX.	92W / 51W	EXISTING	EXISTING	---	LUMINAIRE RETROFITS TO BE PERFORMED BY HALLANDALE BEACH
INTERSECTION 4: US-1 / SR-5 & SE 7TH STREET / DIXIE HIGHWAY (DANIA BEACH)										
DB-1-1	EX.	937477.30	621413.94	15'	40'	295W	BEHIND SIDEWALK	TBD		FOUNDATION TYPE PENDING SUE RESULTS / FOUNDATION DESIGN(S)
EX.	EX.	937478.35	621555.71	EX.	EX.	295W	EXISTING	EXISTING	715-21-2	LUMINAIRE RETROFIT, LOCATED IN NE INTERSECTION QUADRANT
INTERSECTION 5: US-1 / SR-5 & SW 3RD STREET (DANIA BEACH)										
DB-2-1	EX.	937413.56	623554.76	15'	40'	295W	IN FRONT OF SIDEWALK	TBD		FOUNDATION TYPE PENDING SUE RESULTS / FOUNDATION DESIGN(S)
DB-2-2	EX.	937412.61	623666.00	15'	40'	295W	IN FRONT OF SIDEWALK	TBD		FOUNDATION TYPE PENDING SUE RESULTS / FOUNDATION DESIGN(S)
INTERSECTION 6: US-1 / SR-5 & STIRLING ROAD / SR-848 (DANIA BEACH)										
DB-3-1	DB-3-A	937310.59	624439.81	15'	40'	295W	IN SIDEWALK	TBD		FOUNDATION TYPE PENDING SUE RESULTS / FOUNDATION DESIGN(S)
SIGNAL	EX.	937302.14	624383.64	EX.	EX.	50W	EXISTING SIGNAL POLE	EXISTING	715-21-2	SIGNAL LUMINAIRE RETROFIT, LOCATED IN NW INTERSECTION QUADRANT
EX.	EX.	937393.32	624392.78	EX.	EX.	295W	EXISTING	EXISTING	715-21-2	LUMINAIRE RETROFIT, LOCATED IN NE INTERSECTION QUADRANT
EX.	EX.	937398.57	624183.63	EX.	EX.	295W	EXISTING	EXISTING	715-21-2	LUMINAIRE RETROFIT, LOCATED IN SE INTERSECTION QUADRANT
INTERSECTION 7: US-1 / SR-5 & NE 1ST STREET (DANIA BEACH)										
DB-4-1	DB-4-A	937327.33	626217.08	15'	40'	295W	IN FRONT OF SIDEWALK	TBD		FOUNDATION TYPE PENDING SUE RESULTS / FOUNDATION DESIGN(S)
SIGNAL	EX.	937254.45	626239.95	EX.	EX.	50W	EXISTING SIGNAL POLE	EXISTING	715-21-2	SIGNAL LUMINAIRE RETROFIT, LOCATED IN SW INTERSECTION QUADRANT
EX.	EX.	937330.61	626340.59	EX.	EX.	295W	EXISTING	EXISTING	715-21-2	LUMINAIRE RETROFIT, LOCATED IN NE INTERSECTION QUADRANT
INTERSECTION 8: US-1 / SR-5 & OLD GRIFFIN ROAD (DANIA BEACH)										
FPL	FPL	937274.52	628068.53	6'	25'	121W	EXISTING UTILITY POLE	EXISTING	---	LUMINAIRE ATTACHMENT TO BE INSTALLED BY FPL
INTERSECTION 9: PEMBROKE ROAD / SR-824 & NW 10TH AVENUE / S 28TH AVENUE (HALLANDALE BEACH / HOLLYWOOD)										
FPL	FPL	931224.90	605245.74	6'	25'	121W	EXISTING UTILITY POLE	EXISTING	---	LUMINAIRE ATTACHMENT TO BE INSTALLED BY FPL
EX. FPL	EX. FPL	9310+37.18	6051+32.85	EX.	EX.	263W	EXISTING	EXISTING	---	FPL LUMINAIRE RETROFIT TO BE INSTALLED BY FPL

THIS IS AN EXHIBIT ONLY - NOT FOR EXECUTION!

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 15	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POLE DATA	SHEET NO. L-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					N/A	BROWARD	446997-1-52-01		



- NOTES:**
1. REMOVE EXISTING LIGHT POLE AND INSTALL NEW PULL BOX. SPLICE EXISTING LIGHTING CABLE TO RECONNECT CIRCUIT. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 2. INSTALL PULL BOX ADJACENT TO LOAD CENTER. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 3. EXISTING LIGHTING CONDUIT RUNS ARE NOT SHOWN ON THE PLANS. SEE PROJECT 228034-1-52-01 FOR MORE INFORMATION ABOUT EXISTING CIRCUITS ON US-1.

CITY OF HALLANDALE BEACH
US-1 & SE 3RD ST. / SEABISCUIT TRAIL

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 16	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

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EXIST. DECORATIVE LIGHT POLE "6", EXIST. CKT "1"
POLE REPLACEMENT AND LUMINAIRE RETROFIT TO
BE COMPLETED BY CITY OF HALLANDALE BEACH
N 937815.47, E 602690.78

EXIST. DECORATIVE LIGHT POLE "7", EXIST. CKT "2"
LUMINAIRE RETROFIT TO BE COMPLETED BY CITY
OF HALLANDALE BEACH
N 937898.57, E 602829.87

2-#4 (LUM.) (240V)
2-#2 (GFI) (120V)
1-#2 (GND.)

2-#4 (LUM.) (240V)
2-#2 (GFI) (120V)
1-#2 (GND.)

EXIST.
BCTEDCO
FDOT-ELAND
(TO REMAIN)

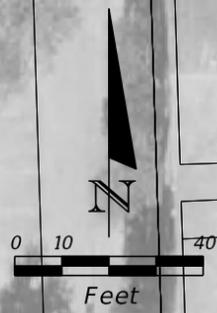
POLE HB-2-1, EXIST. CKT. "2"
DECORATIVE LIGHT POLE AT
BACK OF 6' SIDEWALK
REPLACE SIDEWALK
SPREAD FOOTING TYPE II
N 937895.56, E 602634.30
SEE NOTE 2

- NOTES:
1. INSTALL NEW PULL BOX TO REPLACE EXISTING PULL BOX. SPLICE EXISTING LIGHTING CABLE TO INSTALLED CABLE. EXISTING CABLE BETWEEN EXISTING PULL BOXES SHALL BE REMOVED, WITH CONDUIT ABANDONED IN PLACE. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 2. INSTALL PULL BOX ADJACENT TO POLE HB-2-1. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 3. EXISTING LIGHTING CONDUIT RUNS ADJACENT TO NEW POLES ARE SHOWN SCHEMATICALLY. SEE PROJECT 228034-1-52-01 FOR MORE INFORMATION ABOUT EXISTING CIRCUITS ON US-1.

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 17	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

LIGHTING PLANS

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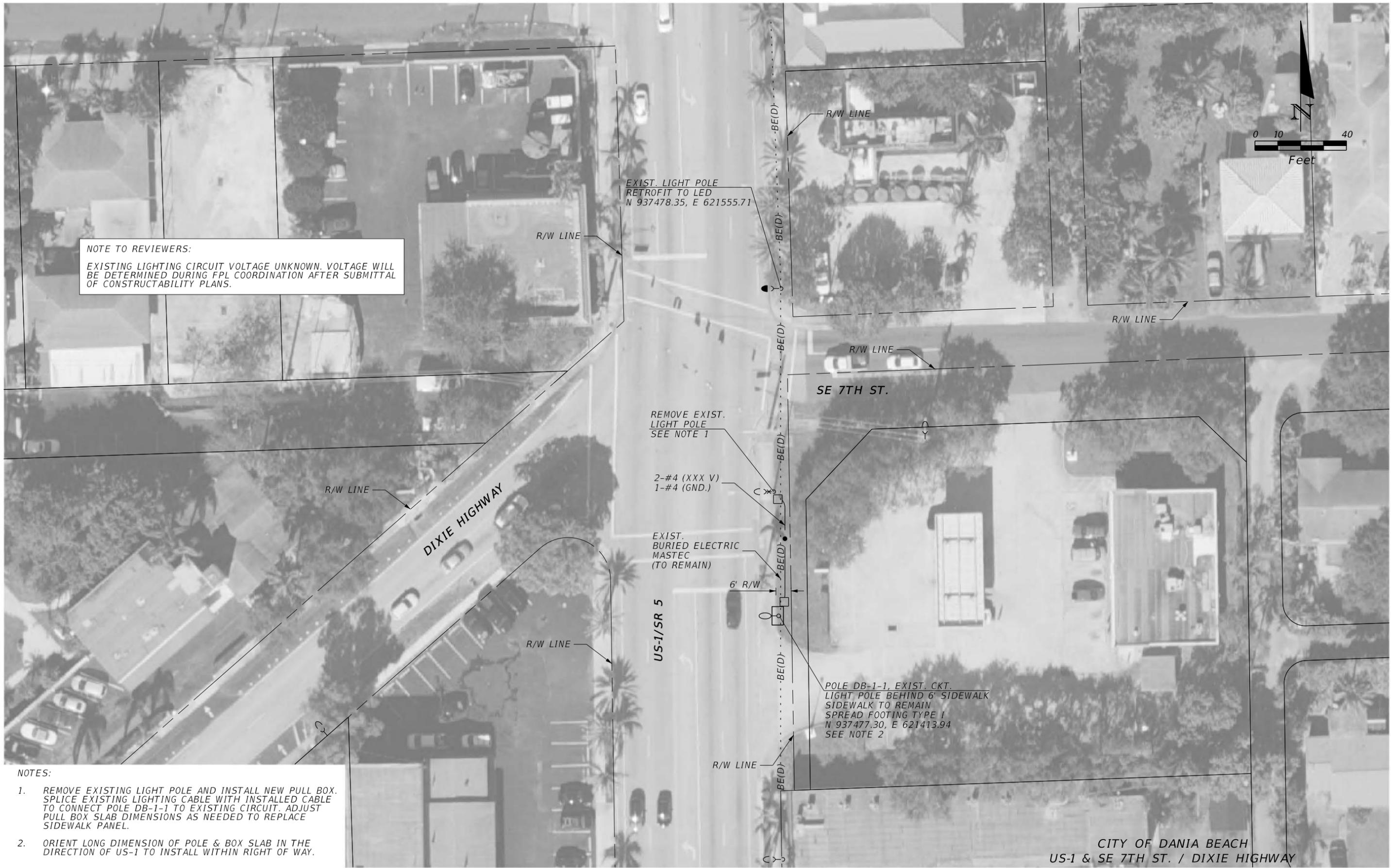


- NOTES:
1. INTERCEPT EXISTING LIGHTING CONDUIT(S) AND INSTALL PULL BOX ADJACENT TO POLE HB-3-3 TO REPLACE EXISTING PULL BOX. SPLICE EXISTING LIGHTING CABLE TO POLE CABLE DISTRIBUTION SYSTEM IN THE NEW PULL BOX. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 2. INTERCEPT EXISTING LIGHTING CONDUIT(S) AND INSTALL PULL BOX ADJACENT TO POLE HB-3-1. SPLICE EXISTING LIGHTING CABLE TO POLE CABLE DISTRIBUTION SYSTEM IN THE PULL BOX. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 3. INSTALL NEW PULL BOX TO REPLACE EXISTING PULL BOX. SPLICE EXISTING LIGHTING CABLE WITH INSTALLED CABLE. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 4. EXISTING LIGHTING CONDUIT RUNS ADJACENT TO NEW POLES ARE SHOWN SCHEMATICALLY. SEE PROJECT 228034-1-52-01 FOR MORE INFORMATION ABOUT EXISTING CIRCUITS ON US-1.

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 18	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

LIGHTING PLANS

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



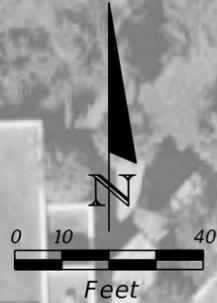
NOTE TO REVIEWERS:
 EXISTING LIGHTING CIRCUIT VOLTAGE UNKNOWN. VOLTAGE WILL BE DETERMINED DURING FPL COORDINATION AFTER SUBMITTAL OF CONSTRUCTABILITY PLANS.

- NOTES:**
1. REMOVE EXISTING LIGHT POLE AND INSTALL NEW PULL BOX. SPLICE EXISTING LIGHTING CABLE WITH INSTALLED CABLE TO CONNECT POLE DB-1-1 TO EXISTING CIRCUIT. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 2. ORIENT LONG DIMENSION OF POLE & BOX SLAB IN THE DIRECTION OF US-1 TO INSTALL WITHIN RIGHT OF WAY.

CITY OF DANIA BEACH
 US-1 & SE 7TH ST. / DIXIE HIGHWAY

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				N/A	BROWARD	446997-1-52-01	L-11

SLADE G. ENGSTROM
 PE LICENSE NUMBER 82734
 TRANSYSTEMS CORPORATION CONSULTANTS
 3230 W COMMERCIAL BLVD., SUITE 450
 FORT LAUDERDALE, FL 33309 19



NOTE TO REVIEWERS:
 EXISTING LIGHTING CIRCUIT VOLTAGE UNKNOWN. VOLTAGE WILL BE DETERMINED DURING FPL COORDINATION AFTER SUBMITTAL OF CONSTRUCTABILITY PLANS.

- NOTES:**
1. REMOVE EXISTING LIGHT POLE AND INSTALL NEW PULL BOX. SPLICE EXISTING LIGHTING CABLE WITH INSTALLED CABLE TO CONNECT POLES DB-2-1 AND DB-2-2 TO EXISTING CIRCUIT. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 2. ADJUST DIMENSIONS OF POLE & BOX SLAB TO REPLACE SIDEWALK PANEL.

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 20	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

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

NOTE TO REVIEWERS:
 EXISTING FPL TRANSFORMER VOLTAGE UNKNOWN. VOLTAGE WILL BE DETERMINED DURING FPL COORDINATION AFTER SUBMITTAL OF CONSTRUCTABILITY PLANS.

POLE DB-3-1, CKT. DB-3-A
 LIGHT POLE AT BACK OF 5'
 SIDEWALK, REPLACE SIDEWALK
 SPREAD FOOTING TYPE II
 N 937310.59, E 624439.81
 SEE NOTE 3

EXIST. SIGNAL LUMINAIRE
 RETROFIT TO LED
 N 937302.14, E 624383.64

EXIST. LIGHT POLE
 RETROFIT TO LED
 N 937393.32, E 624392.78

EXIST. XXX VOLT FPL
 POLE MOUNTED TRANSFORMER
 N 937218.45, E 624280.82

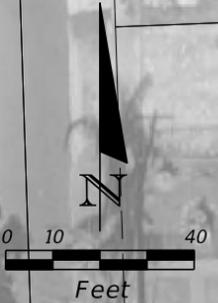
EXIST. 138KV TX LINE
 FPL TRANSMISSION
 (TO REMAIN)

LOAD CENTER DB-3
 AT BACK OF 6' SIDEWALK
 REPLACE SIDEWALK
 SPREAD FOOTING TYPE IV
 N 937221.97, E 624278.93
 SEE NOTE 1

EXIST. (2) - 1.5" HDPE
 CONDUITS
 CROWN CASTLE
 (TO REMAIN)

EXIST. LIGHT POLE
 RETROFIT TO LED
 N 937398.57, E 624183.63

- NOTES:**
1. INSTALL PULL BOX ADJACENT TO LOAD CENTER. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 2. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANEL.
 3. ADJUST DIMENSIONS OF POLE & BOX SLAB TO REPLACE SIDEWALK PANEL.



CITY OF DANIA BEACH
 US-1 & STIRLING RD. / SR-848

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 21	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

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NOTE TO REVIEWERS:
 EXISTING FPL TRANSFORMER VOLTAGE UNKNOWN. VOLTAGE WILL BE DETERMINED DURING FPL COORDINATION AFTER SUBMITTAL OF CONSTRUCTABILITY PLANS.

- NOTES:**
1. INSTALL PULL BOX ADJACENT TO LOAD CENTER AND POLE. TRENCH CONDUITS BETWEEN PULL BOXES. ADJUST PULL BOX SLAB DIMENSIONS AS NEEDED TO REPLACE SIDEWALK PANELS.

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				N/A	BROWARD	446997-1-52-01	L-14

SLADE G. ENGSTROM
 PE LICENSE NUMBER 82734
 TRANSYSTEMS CORPORATION CONSULTANTS
 3230 W COMMERCIAL BLVD., SUITE 450
 FORT LAUDERDALE, FL 33309 22

LIGHTING PLANS

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CITY OF DANIA BEACH
US-1 & OLD GRIFFIN RD.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

SLADE G. ENGSTROM
PE LICENSE NUMBER 82734
TRANSYSTEMS CORPORATION CONSULTANTS
3230 W COMMERCIAL BLVD., SUITE 450
FORT LAUDERDALE, FL 33309 23

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
N/A	BROWARD	446997-1-52-01

LIGHTING PLANS

SHEET NO.
L-15

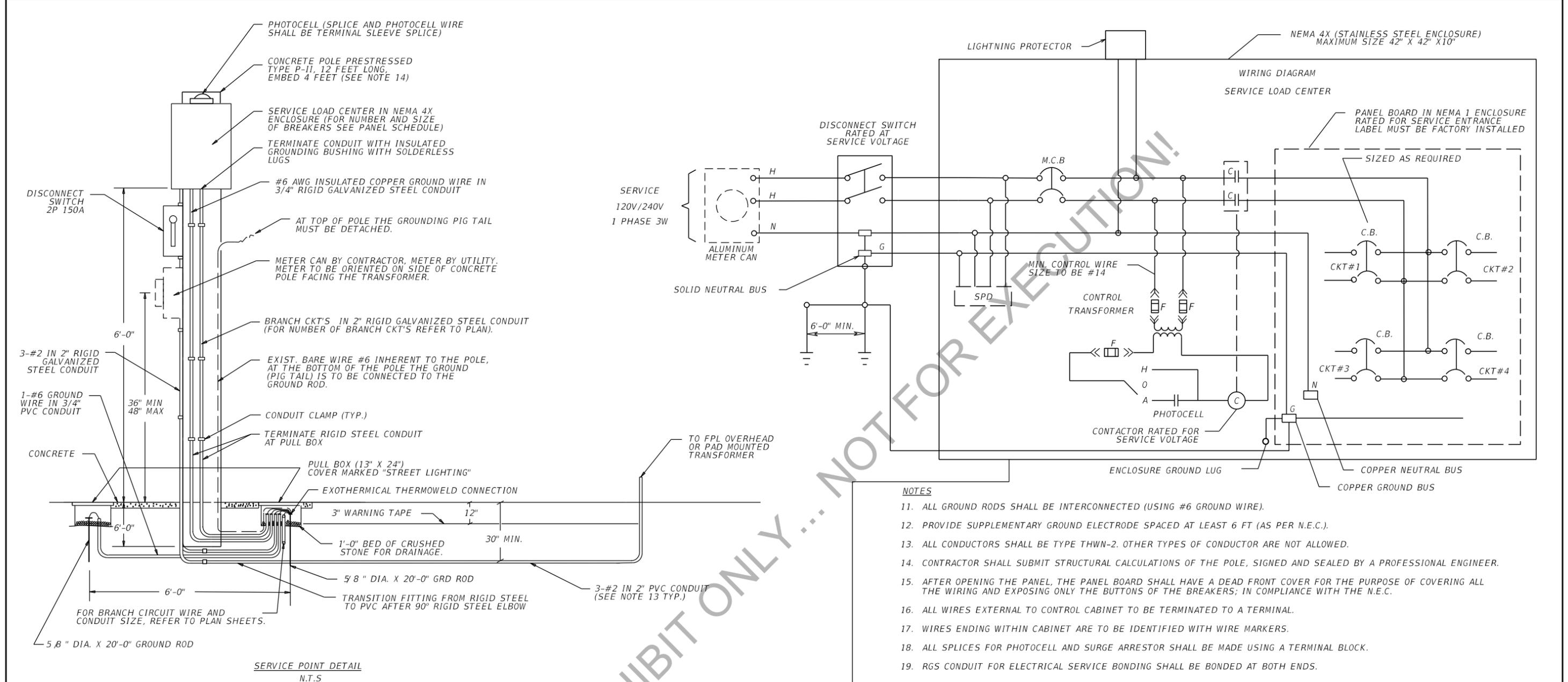


CITY OF HALLANDALE BEACH / HOLLYWOOD
 PEMBROKE RD. / SR-824 & NW 10TH AVE / S 28TH AVE

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

LIGHTING PLANS

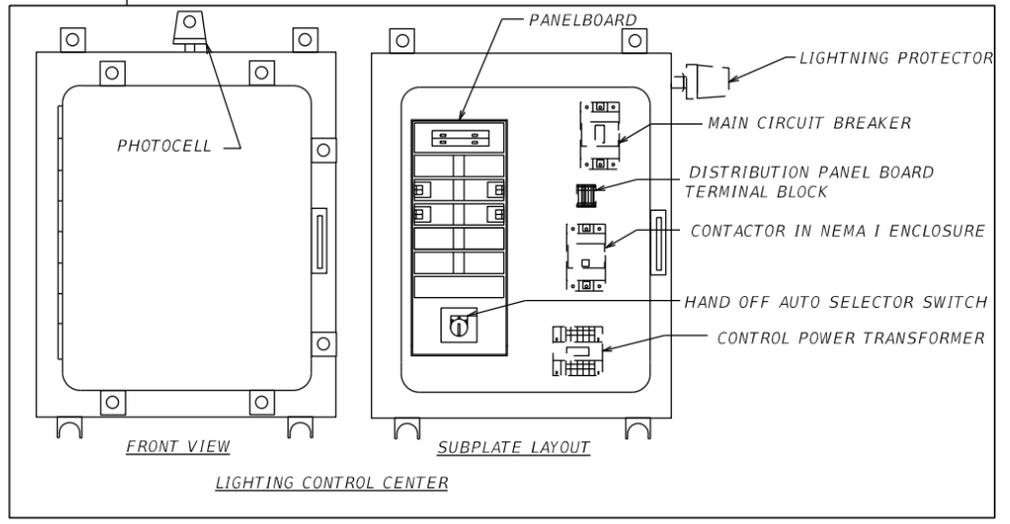
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SERVICE POINT DETAIL
N.T.S

- NOTES:**
1. THE ENCLOSURE SHALL BE NEMA 4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
 2. THE ENCLOSURE DOOR SHALL BE SECURED BY LOCKABLE LATCH. THE DOOR SHALL HAVE A MINIMUM OF THREE HINGES AND BE LATCHABLE. NO SCREWS TO BE USED TO ATTACH DOOR.
 3. 480V MINIMUM RATING BOLT-IN TYPE BREAKERS SHALL BE USED.
 4. A 600V LIGHTNING PROTECTOR SHALL BE WIRED INSIDE THE ENCLOSURE.
 5. A MAIN BREAKER IS REQUIRED IN ALL SERVICE PANELS WITH 2 OR MORE FEEDER BREAKERS.
 6. ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.
 7. BUS BAR TO BE COPPER COATED AND HAVE A MINIMUM RATING OF 100 AMPS WHEN MAIN BREAKER EXCEEDS 100 AMPS. BUSBAR TO MATCH BREAKER AMPERAGE.
 8. LOCATE CONTACTOR, TRANSFORMER AND H.O.A. SWITCH INSIDE ENCLOSURE. THE ENCLOSURE TO BE SIZED TO ACCOMMODATE AS MANY BREAKERS AS CALLED FOR AND ALL OTHER SERVICE EQUIPMENT.
 9. THE ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLE FACE.
 10. CONTRACTOR SHALL COORDINATE WITH FPL ENGINEERS FOR THE INSTALLATION OF THE FPL TRANSFORMER WHICH INCLUDES A CONNECTION FEE.

- NOTES:**
11. ALL GROUND RODS SHALL BE INTERCONNECTED (USING #6 GROUND WIRE).
 12. PROVIDE SUPPLEMENTARY GROUND ELECTRODE SPACED AT LEAST 6 FT (AS PER N.E.C.).
 13. ALL CONDUCTORS SHALL BE TYPE THWN-2. OTHER TYPES OF CONDUCTOR ARE NOT ALLOWED.
 14. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS OF THE POLE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
 15. AFTER OPENING THE PANEL, THE PANEL BOARD SHALL HAVE A DEAD FRONT COVER FOR THE PURPOSE OF COVERING ALL THE WIRING AND EXPOSING ONLY THE BUTTONS OF THE BREAKERS; IN COMPLIANCE WITH THE N.E.C.
 16. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
 17. WIRES ENDING WITHIN CABINET ARE TO BE IDENTIFIED WITH WIRE MARKERS.
 18. ALL SPLICES FOR PHOTOCELL AND SURGE ARRESTOR SHALL BE MADE USING A TERMINAL BLOCK.
 19. RGS CONDUIT FOR ELECTRICAL SERVICE BONDING SHALL BE BONDED AT BOTH ENDS.



LOAD CENTER
HB-1, DB-3, DB-4

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 25	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

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VOLTAGE DROP CALCULATIONS INCLUDED IN LIGHTING DESIGN ANALYSIS REPORT.

VOLTAGE <u>120/240, 1Ø, 3W</u> MAIN BREAKER BUS <u>125 A</u> , "HB-1" SHORT CIRCUIT RATING: 22 KAIC MIN. 100 AMPS, 2P				
CKT. NO.	BKR. TRIP	POLES	VA	EQUIPMENT SERVED
HB-1-A	20	1	168	POLE HB-1-1 (120V)
HB-1-A (GFI)	20	2	293	HOLIDAY LIGHTS (240 V)
HB-1-B	20	1	335	POLES HB-1-2 & HB-1-3 (120V)
HB-1-B (GFI)	20	2	585	HOLIDAY LIGHTS (240 V)
CONNECTED VA: <u>1,381 VA</u> DEMAND VA: $1381 \times 1.25 =$ <u>1,727 VA</u> AMPS: <u>8 A</u>				

VOLTAGE <u>120/240, 1Ø, 3W</u> MAIN BREAKER BUS <u>125 A</u> , "DB-3" SHORT CIRCUIT RATING: 22 KAIC MIN. 100 AMPS, 2P				
CKT. NO.	BKR. TRIP	POLES	VA	EQUIPMENT SERVED
DB-3-A	20	1	143	POLE DB-3-1 (120 V)
DB-3-A GFI	20	2	293	HOLIDAY LIGHTS (240 V)
CONNECTED VA: <u>436 VA</u> DEMAND VA: $436 \times 1.25 =$ <u>545 VA</u> AMPS: <u>3 A</u>				

VOLTAGE <u>120/240, 1Ø, 3W</u> MAIN BREAKER BUS <u>125 A</u> , "DB-4" SHORT CIRCUIT RATING: 22 KAIC MIN. 100 AMPS, 2P				
CKT. NO.	BKR. TRIP	POLES	VA	EQUIPMENT SERVED
DB-4-A	20	1	143	POLE DB-4-1 (120 V)
DB-4-A (GFI)	20	2	293	HOLIDAY LIGHTS (240 V)
CONNECTED VA: <u>436 VA</u> DEMAND VA: $436 \times 1.25 =$ <u>545 VA</u> AMPS: <u>3 A</u>				

THIS IS AN EXHIBIT ONLY... NOT FOR EXECUTION!

PANEL SCHEDULES

REVISIONS				SLADE G. ENGSTROM PE LICENSE NUMBER 82734 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 26	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

SERVICE POINT DETAILS (2)

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

LIGHT POLE/SERVICE POINT SPREAD FOOTING GENERAL NOTES

DESIGN SPECIFICATIONS:

A) AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1ST EDITION (2015) WITH INTERIM REVISIONS THROUGH 2022.

DESIGN GUIDELINES:

A) FDOT STRUCTURES MANUAL (JANUARY 2022)

B) FDOT DESIGN MANUAL - 2022

DESIGN METHOD:

LOAD AND RESISTANCE FACTOR DESIGN.

CONSTRUCTION SPECIFICATIONS:

FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - JULY 2022.

CONCRETE:

CLASS	MINIMUM 28-DAY COMPRESSIVE STRENGTH	LOCATION
IV	f'c = 5,500 PSI	LIGHT POLE SPREAD FOOTING

ENVIRONMENTAL CLASSIFICATION: EXTREMELY AGGRESSIVE FOR CONCRETE.

REINFORCING STEEL:

REINFORCING STEEL - GRADE 60 CARBON STEEL PER SPECIFICATIONS SECTION 931.

CONCRETE COVER:

CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCE UNLESS SHOWN AS "MINIMUM COVER." SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

LIGHT POLE/SERVICE POINT SPREAD FOOTING NOTES:

- DESIGN WIND SPEED = 160 MPH
- CONSTRUCT THE LIGHT POLE SPREAD FOOTING FOUNDATION IN ACCORDANCE WITH SECTION 455 OF THE CONSTRUCTION SPECIFICATIONS EXCEPT THAT NO PAYMENT FOR THE FOUNDATION WILL BE MADE UNDER SECTION 455.
- ANCHOR BOLTS SHALL HAVE A MINIMUM OF 4½" INCH CONCRETE COVER AT THE BOTTOM OF THE FOOTING. SHIFT FOOTING REINFORCEMENT AS REQUIRED TO CLEAR BOLTS. ANCHOR BOLT CONFIGURATION AND ANCHOR PLATES SHALL BE COMPATIBLE WITH THE LIGHT POLE TRANSFORMER BASE AND ACCOMMODATE THE FOOTING DIMENSIONS. PROVIDE DESIGN CALCULATIONS BASED ON LOADS PROVIDED BELOW. SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- REQUIRED MINIMUM DESIGN LOADS: (EXTREME EVENT I LOAD COMBINATION LIMIT STATE)

MOMENT IN TRANSVERSE DIRECTION (KIP-FT)	SHEAR IN TRANSVERSE DIRECTION (KIPS)	TORSION (KIP-FT)	AXIAL (KIP)	MOMENT IN LONGITUDINAL DIRECTION (KIP-FT)	SHEAR IN LONGITUDINAL DIRECTION (KIP)
54.0	2.3	7.9	1.1	83.6	4.2

- SUBMIT STRUCTURAL DESIGN CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR THE DECORATIVE LIGHT POLE AND FIXTURE SUPPORTS TOGETHER WITH SHOP DRAWINGS IN ACCORDANCE WITH THE TABLE IN NOTE 4. IF A POLE IS FURNISHED WHICH PRODUCES GREATER LOADS THAN ARE LISTED ABOVE, REDESIGN THE SPREAD FOOTING AND SUBMIT DRAWINGS AND CALCULATIONS (SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA TO THE ENGINEER FOR REVIEW AND APPROVAL.
- WORK SPREAD FOOTING DETAILS SHEET WITH LIGHTING PLANS, UTILITY ADJUSTMENT SHEETS AND STANDARD PLANS INDEX 715-002 (EXCEPT AS MODIFIED ON THESE SHEETS AND THE REQUIRED MODIFICATIONS TO ACCOMMODATE THE SPECIAL FOOTING DIMENSIONS).
- FOR ANCHOR BOLTS DETAILS, SEE STANDARD PLANS INDEX 521-650 AND 715-002 (EXCEPT AS MODIFIED ON THESE SHEETS AND THE REQUIRED MODIFICATIONS TO ACCOMMODATE THE FOOTING DIMENSIONS).

8. DO NOT EMBED ELECTRICAL PULL BOXES IN THE SPREAD FOOTING FOUNDATION.

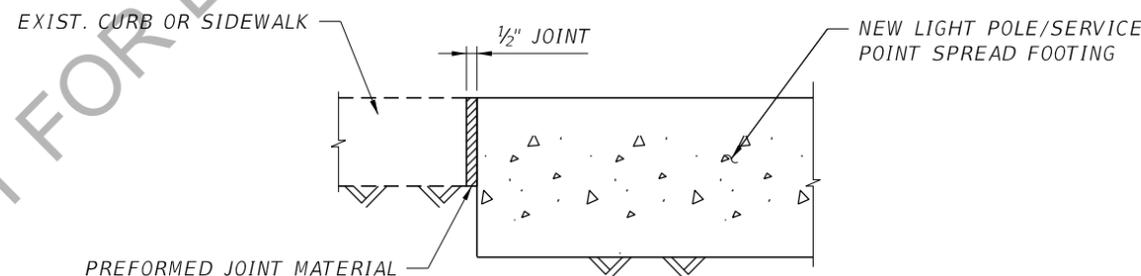
9. SOIL PARAMETERS USED IN DESIGN (PER GEOTECHNICAL REPORT BY TIERRA SOUTH FLORIDA, INC. DATED 06/22/2022:

INTERNAL ANGLE OF FRICTION F = 28 DEGREES
 TOTAL SOIL UNIT WEIGHT = 100 PCF
 SUBMERGED SOIL UNIT WEIGHT = 38 PCF
 ULTIMATE SOIL BEARING PRESSURE = 1,529 PSF

10. COST OF LIGHT POLE SPREAD FOOTINGS INCLUDING CONCRETE AND REINFORCING STEEL SHALL BE INCLUDED IN THE PAY ITEM FOR INDIVIDUAL POLES. NO SEPARATE PAY ITEMS FOR LIGHT POLE FOOTINGS COST.

11. FILL JOINTS BETWEEN NEW FOOTINGS AND SURROUNDING SIDEWALK OR CURB SHALL BE PREMOLDED EXPANSION JOINT MATERIAL AS NOTED IN DETAIL 1 BELOW AND SHALL BE SELECTED FROM FDOT APL. NO SEPARATE PAY ITEM FOR THE JOINT COST.

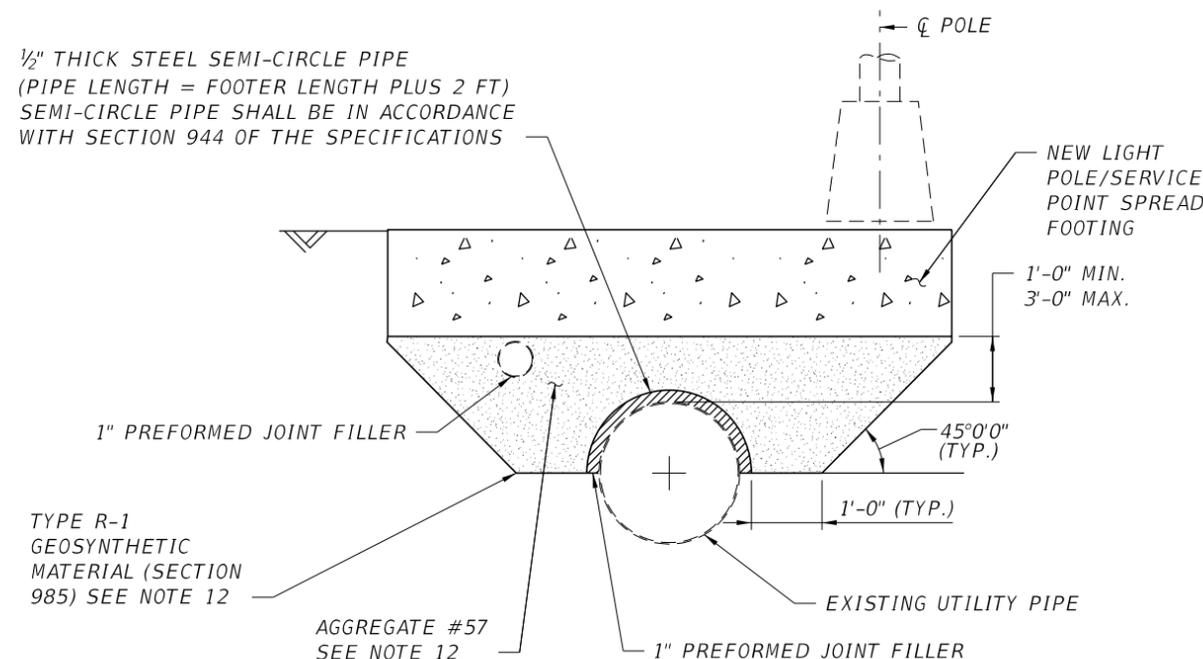
12. AGGREGATE #57 SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE SPECIFICATIONS. COST OF EXCAVATION, SOIL DISPOSAL, SEMI-CIRCLE STEEL PIPE, PREFORMED JOINT FILLER, GEOSYNTHETIC MATERIAL AND AGGREGATE FILL SHALL BE INCLUDED IN THE PAY ITEM FOR THE PARTICULAR POLE. GEOSYNTHETIC MATERIAL SHALL BE PLACED ALONG THE PERIMETER OF THE AGGREGATE #57.



DETAIL 1

(JOINT TREATMENT)

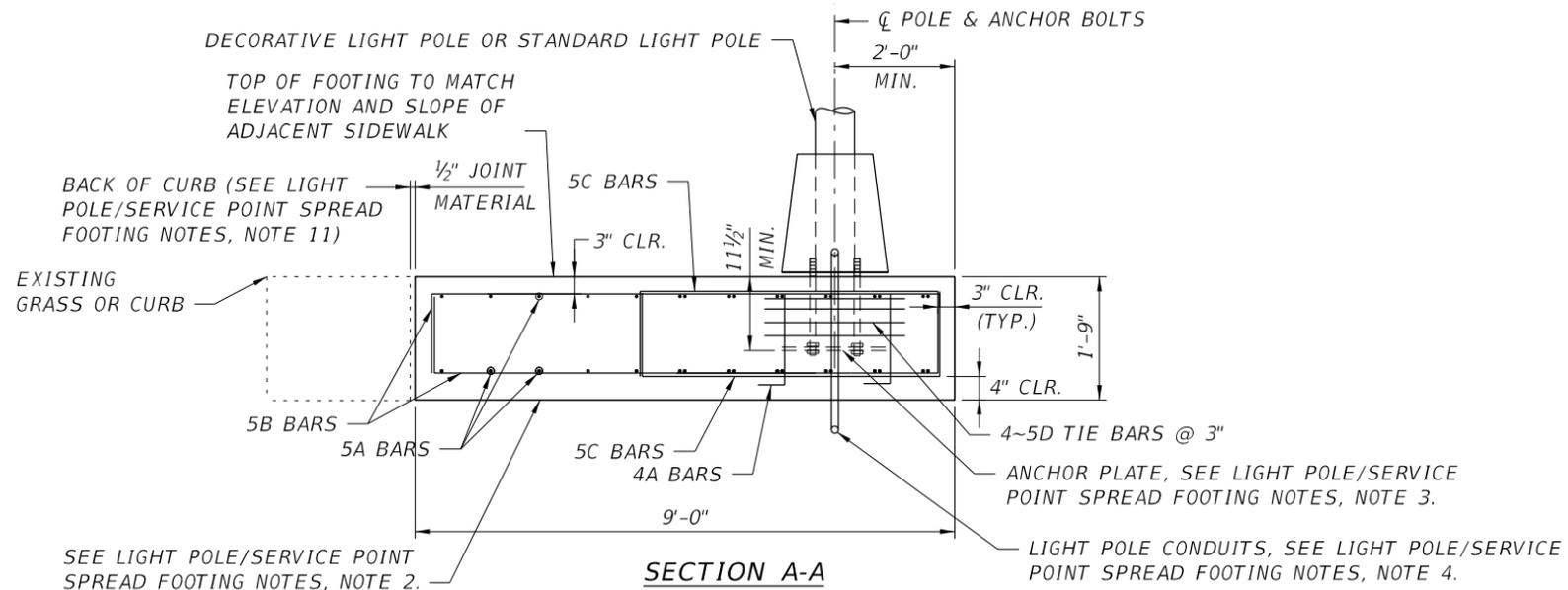
½" THICK STEEL SEMI-CIRCLE PIPE (PIPE LENGTH = FOOTER LENGTH PLUS 2 FT) SEMI-CIRCLE PIPE SHALL BE IN ACCORDANCE WITH SECTION 944 OF THE SPECIFICATIONS



DETAIL 2: TREATMENT OF UNDERGROUND UTILITIES AT SPREAD FOOTINGS

REVISIONS						DRAWN BY: DMH	CHECKED BY: JPD	DESIGNED BY: JPD	CHECKED BY: SJS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SPREAD FOOTING DETAILS		
										N/A	BROWARD	446997-1-52-01	INTERSECTION LIGHTING RETROFIT IMPROVEMENTS		
						TRANSYSTEMS CORPORATION CONSULTANTS 3230 W. COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FLORIDA 33309 STEVEN A. SHAUP, P.E. P.E. No. 52099 27							PROJECT NAME: INTERSECTION LIGHTING RETROFIT IMPROVEMENTS		SHEET NO. L-19

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

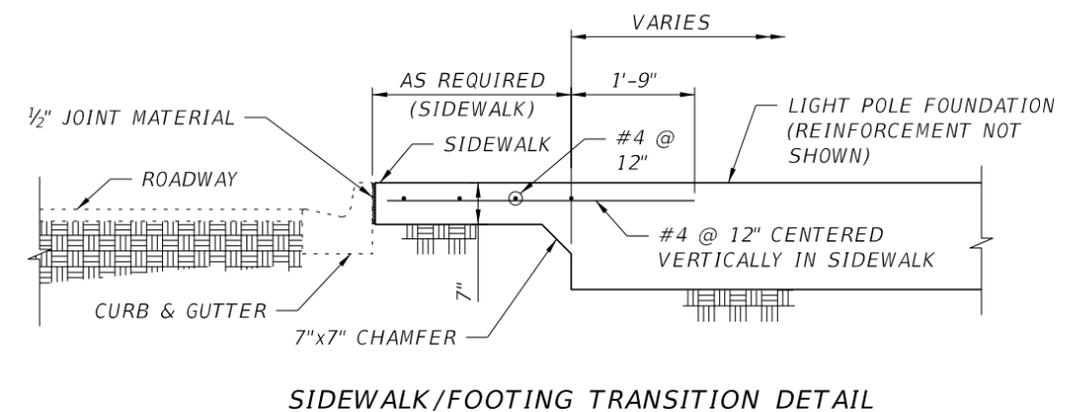


MARK	LENGTH	NO	TYP	STY	B		C		D		
					FT	IN	FT	IN	FT	IN	
FOR ONE FOOTING											
4	A	1	10	8	10	3	3	1	2	8	
5	A	16	8	22	11			14	6	1	1
5	B	10	10	36	11			8	6	1	2
5	C	7	2	24	11			5	0	1	1
5	D	5	6	4	24			9		9	

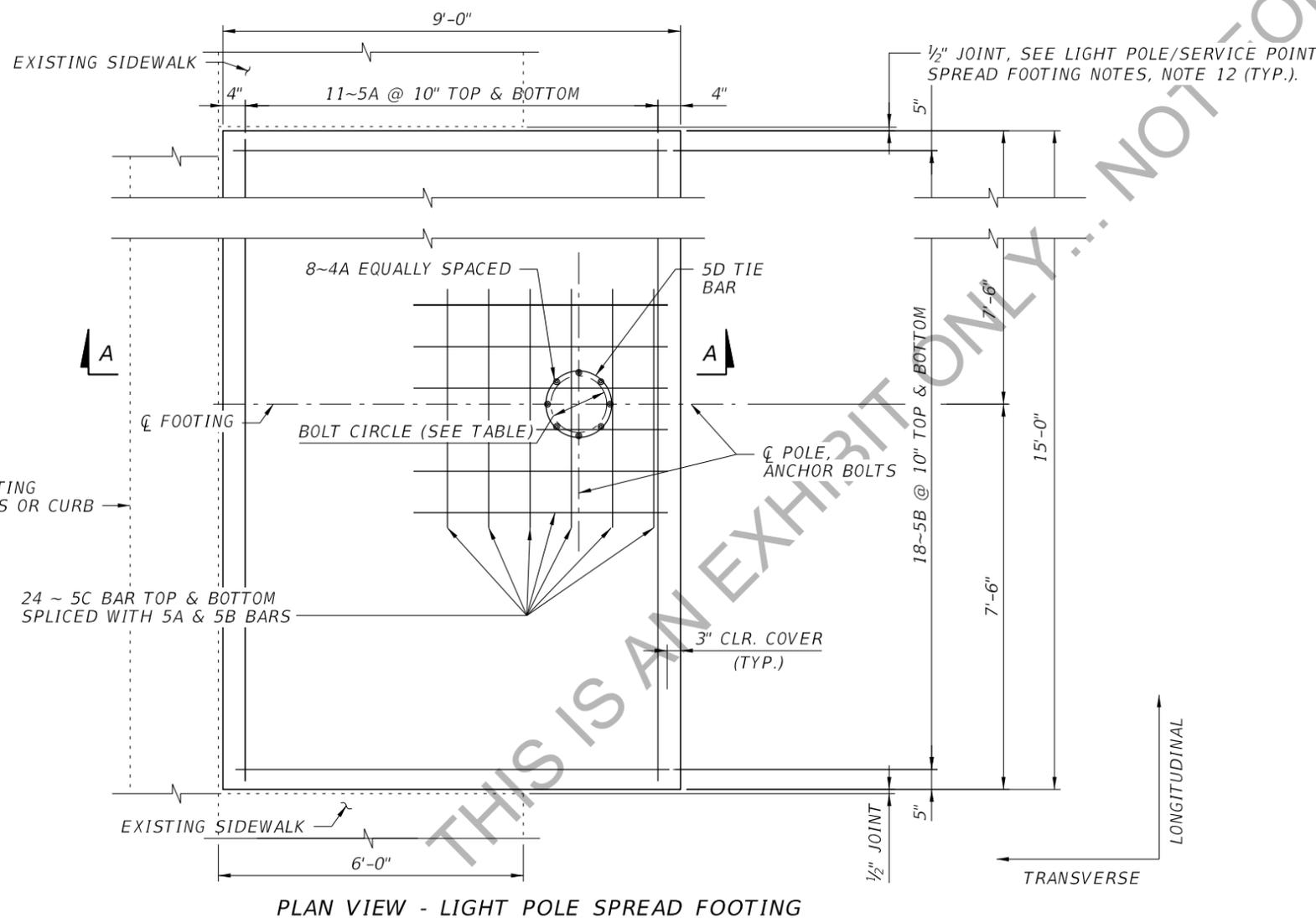
ESTIMATED LIGHT POLE FOUNDATION QUANTITIES PER FOOTING (LIGHT POLE)		
ITEM	UNIT	QUANTITY
CONCRETE	CY	8.8
STEEL	LB	1001

BOLT CIRCLE DIAMETER	
POLE TYPE	DIAMETER
DECORATIVE POLES	1'-2"
STANDARD POLES	1'-3"

WHERE SPREAD FOOTING NEEDS TO BE INCORPORATED IN ADJACENT SIDEWALK, THE TOP SURFACE OF THE FOOTING SHALL BE CAST FLUSH WITH THE TOP SURFACE OF THE SIDEWALK AND SHALL RECEIVE THE SAME SURFACE TREATMENT AS THE ADJACENT SIDEWALK. EXCEPT AS SHOWN, JOINTS BETWEEN SPREAD FOOTING AND SIDEWALK SHALL BE CONSTRUCTED AS A SIDEWALK EXPANSION JOINT AND FITTED WITH 1/2" PREFORMED EXPANSION MATERIAL FOR THE FULL DEPTH OF THE SIDEWALK.



- NOTES:
1. WORK THIS SHEET WITH FDOT INDEX NO. 415-001 BAR BENDING DETAILS.
 2. ADJUST SPACING OF BARS A, B AND 5C TO CLEAR ANCHOR BOLTS.
 3. FOR THE LIST OF POLES SEE POLE DATA AND LEGEND SHEET.



SPREAD FOOTING TYPE I

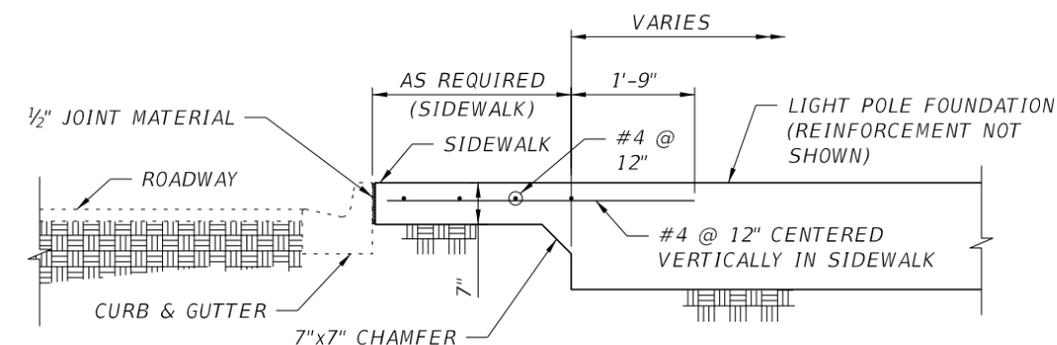
REVISIONS						DRAWN BY: DMH	CHECKED BY: JPD	DESIGNED BY: JPD	CHECKED BY: SJS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SPREAD FOOTING DETAILS		
										N/A	BROWARD	446997-1-52-01	INTERSECTION LIGHTING RETROFIT IMPROVEMENTS		SHEET NO. L-20

MARK	LENGTH	NO	TYP	STY	B			C			D				
					FT	IN	FR	FT	IN	FR	FT	IN	FR		
FOR ONE FOOTING															
4	A	1	10	8	10	3	3	1	2			8			
5	A	8	2	20	11			14	6			1	4	1	4
5	B	7	4	36	11			7	6			1	5	1	5
5	C	5	8	24	11			5	0			1	4	1	4
5	D		6	5	24							9			

ESTIMATED LIGHT POLE FOUNDATION QUANTITIES PER FOOTING (LIGHT POLE)		
ITEM	UNIT	QUANTITY
CONCRETE	CY	8.9
STEEL	LB	886

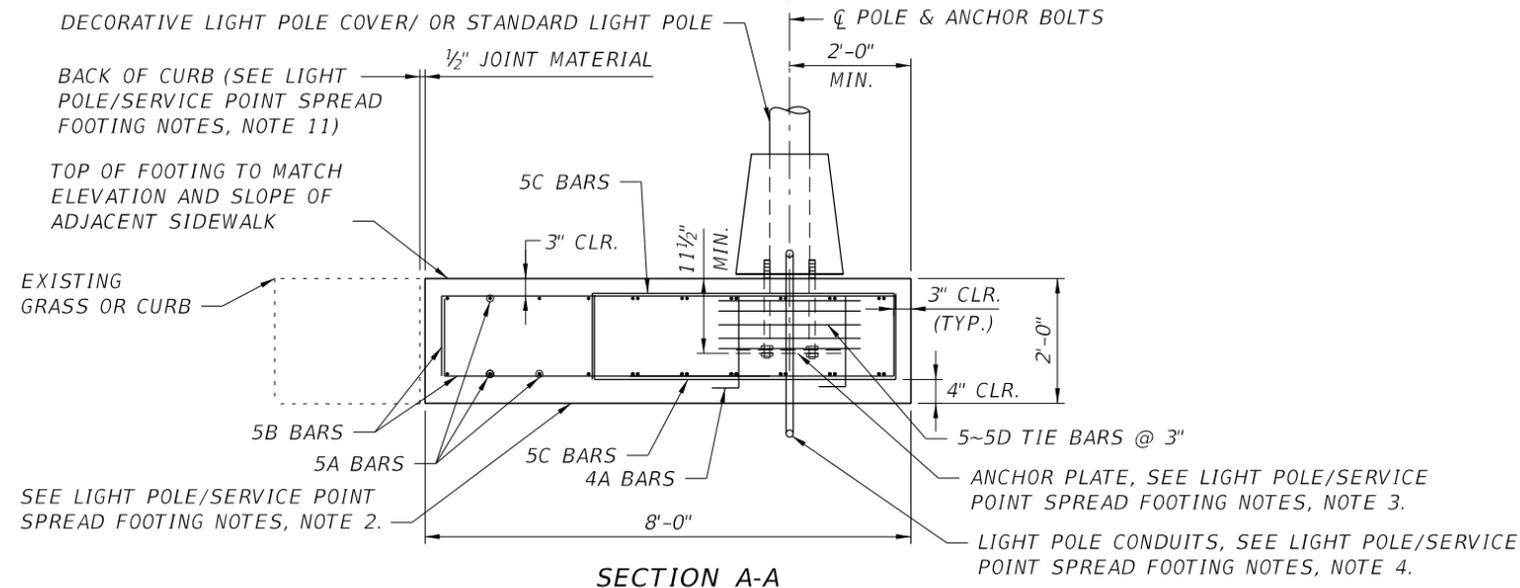
BOLT CIRCLE DIAMETER	
POLE TYPE	DIAMETER
DECORATIVE POLES	1'-2"
STANDARD POLES	1'-3"

WHERE SPREAD FOOTING NEEDS TO BE INCORPORATED IN ADJACENT SIDEWALK, THE TOP SURFACE OF THE FOOTING SHALL BE CAST FLUSH WITH THE TOP SURFACE OF THE SIDEWALK AND SHALL RECEIVE THE SAME SURFACE TREATMENT AS THE ADJACENT SIDEWALK. EXCEPT AS SHOWN, JOINTS BETWEEN SPREAD FOOTING AND SIDEWALK SHALL BE CONSTRUCTED AS A SIDEWALK EXPANSION JOINT AND FITTED WITH 1/2" PREFORMED EXPANSION MATERIAL FOR THE FULL DEPTH OF THE SIDEWALK.

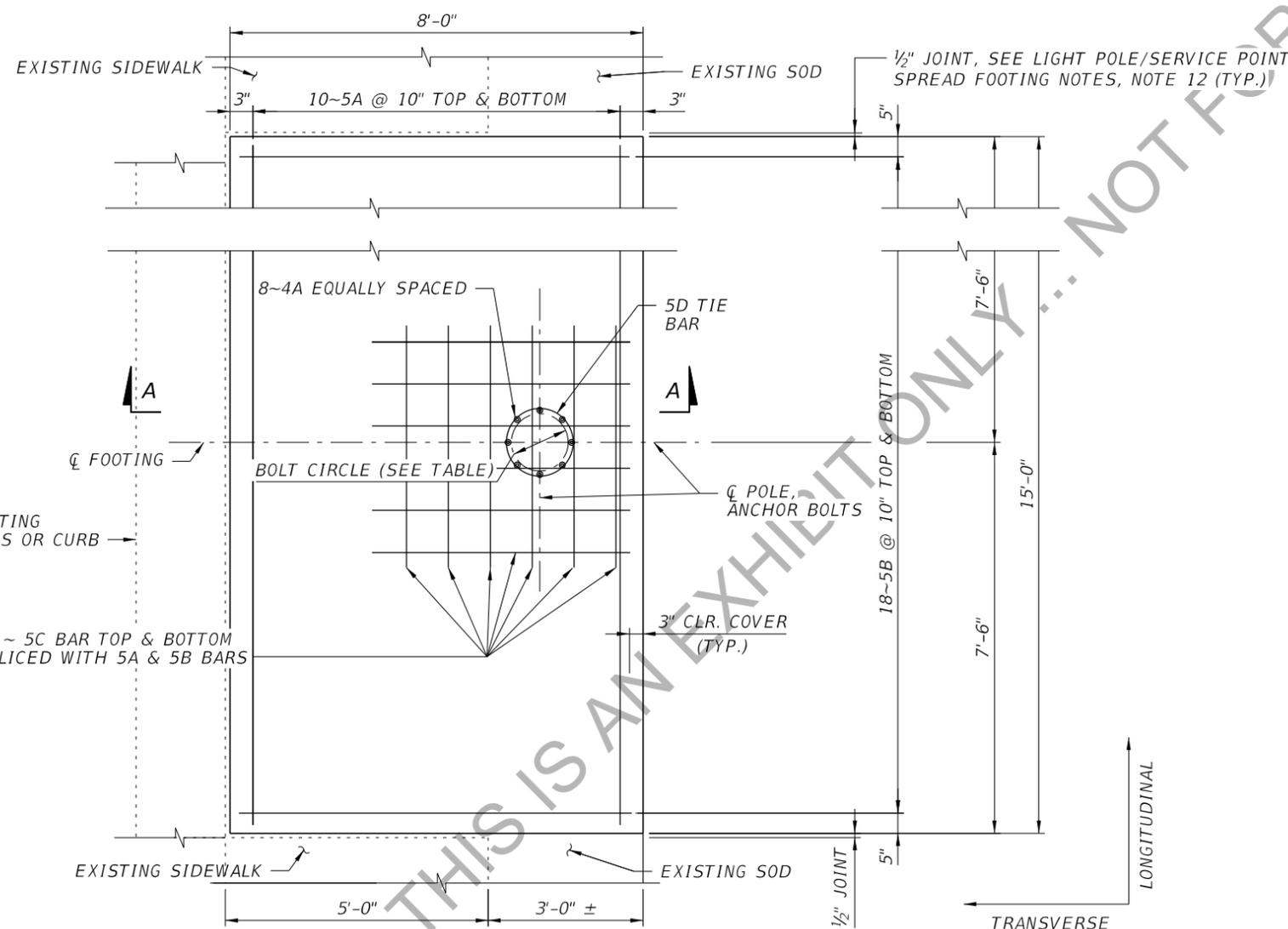


SIDEWALK/FOOTING TRANSITION DETAIL

- NOTES:
1. WORK THIS SHEET WITH FDOT INDEX NO. 415-001 BAR BENDING DETAILS.
 2. ADJUST SPACING OF BARS A, B AND 5C TO CLEAR ANCHOR BOLTS.
 3. FOR THE LIST OF POLES SEE POLE DATA AND LEGEND SHEET.



SECTION A-A



PLAN VIEW - LIGHT POLE SPREAD FOOTING

SPREAD FOOTING TYPE II

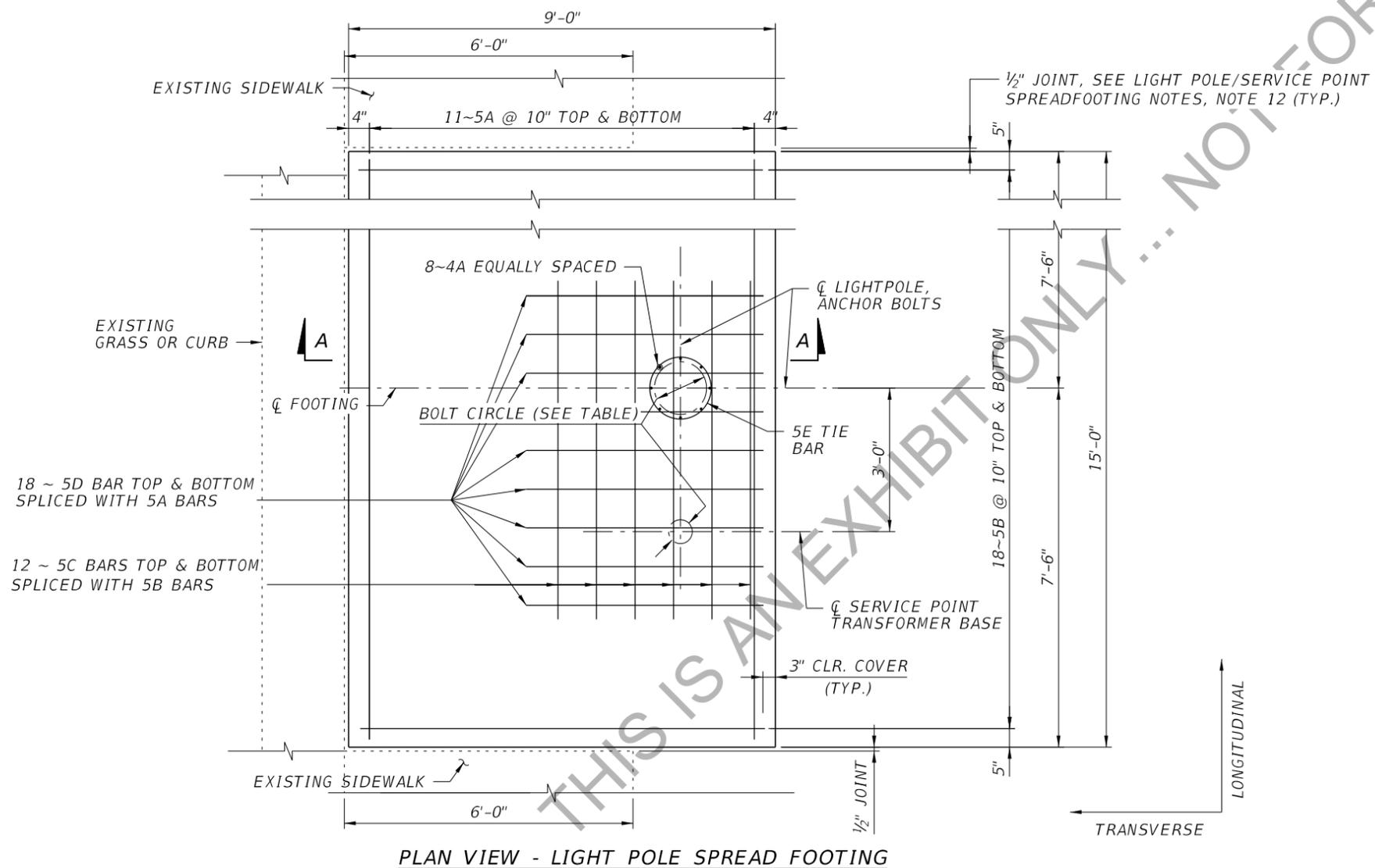
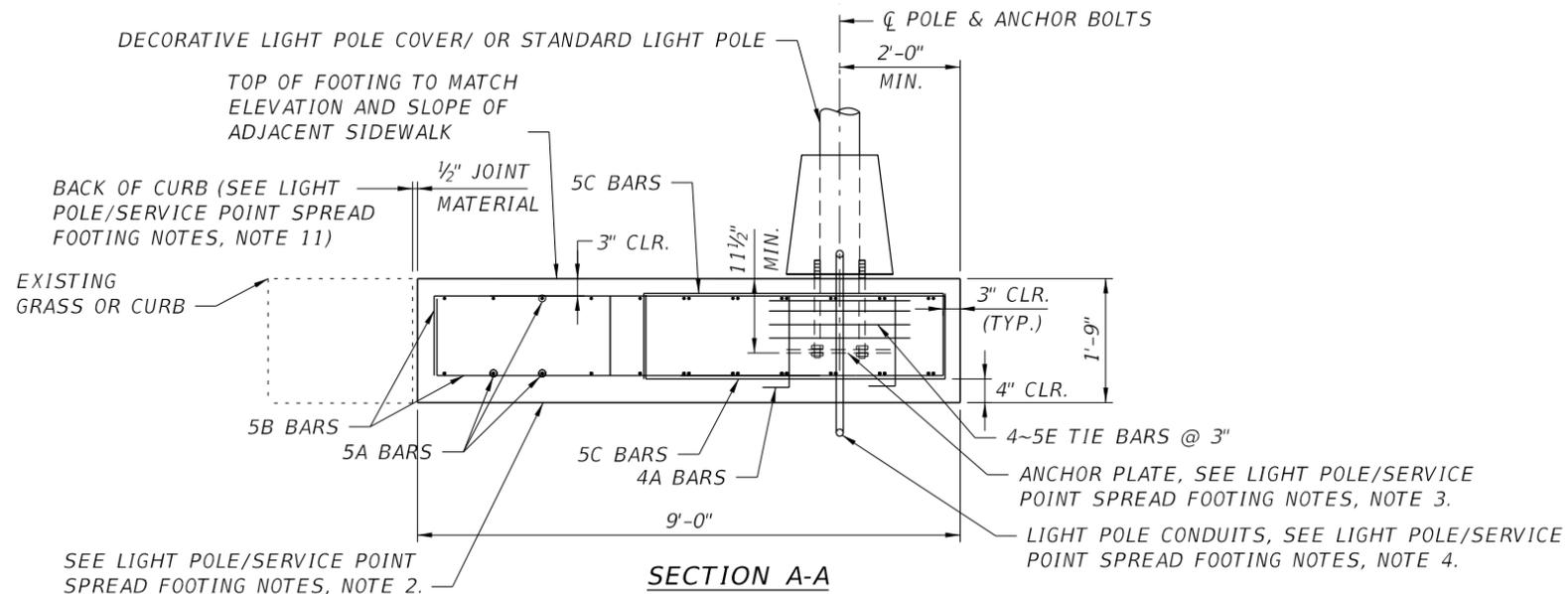
REVISIONS						DRAWN BY: DMH	CHECKED BY: JPD	DESIGNED BY: JPD	CHECKED BY: SJS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		
										N/A	BROWARD	446997-1-52-01	INTERSECTION LIGHTING RETROFIT IMPROVEMENTS		SHEET NO. L-21

TRANSYSTEMS CORPORATION CONSULTANTS
3230 W. COMMERCIAL BLVD., SUITE 450
FORT LAUDERDALE, FLORIDA 33309
STEVEN A. SHAUP, P.E.
P.E. No. 52099 29

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
N/A BROWARD 446997-1-52-01

SHEET TITLE:
SPREAD FOOTING DETAILS
PROJECT NAME:
INTERSECTION LIGHTING RETROFIT IMPROVEMENTS
REF. DWG. NO.
SHEET NO.
L-21

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

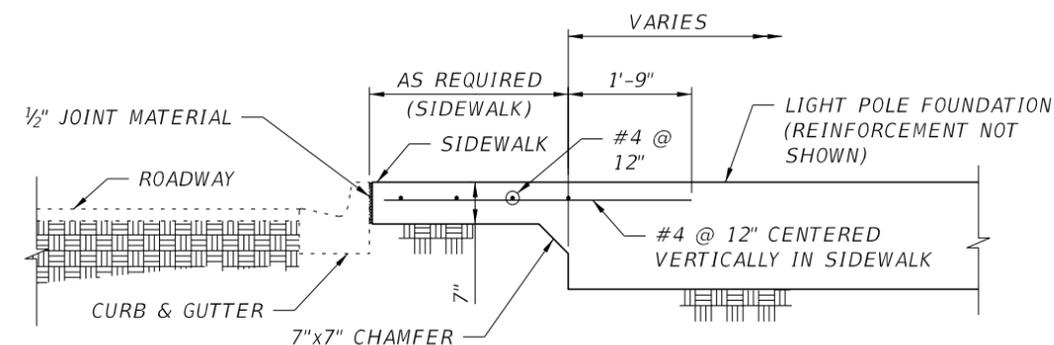


MARK	LENGTH	NO	TYP	STY	B		C		D		
					FT	IN	FT	IN	FT	IN	FR
FOR ONE FOOTING											
4	A	1	10	8	10	3	3	1	2		
5	A	16	8	22	11			14	6	1	1
5	B	10	10	36	11			8	6	1	2
5	C	9	8	12	11			7	6	1	1
5	D	7	2	18	11			5	0	1	1
5	E	5	6	4	24			9		9	

ESTIMATED LIGHT POLE FOUNDATION QUANTITIES PER FOOTING (LIGHT POLE)		
ITEM	UNIT	QUANTITY
CONCRETE	CY	8.8
STEEL	LB	1078

BOLT CIRCLE DIAMETER	
POLE TYPE	DIAMETER
DECORATIVE POLES	1'-2"
STANDARD POLES	1'-3"
TRANSFORMER BASE	6"

WHERE SPREAD FOOTING NEEDS TO BE INCORPORATED IN ADJACENT SIDEWALK, THE TOP SURFACE OF THE FOOTING SHALL BE CAST FLUSH WITH THE TOP SURFACE OF THE SIDEWALK AND SHALL RECEIVE THE SAME SURFACE TREATMENT AS THE ADJACENT SIDEWALK. EXCEPT AS SHOWN, JOINTS BETWEEN SPREAD FOOTING AND SIDEWALK SHALL BE CONSTRUCTED AS A SIDEWALK EXPANSION JOINT AND FITTED WITH 1/2" PREFORMED EXPANSION MATERIAL FOR THE FULL DEPTH OF THE SIDEWALK.



SIDEWALK/FOOTING TRANSITION DETAIL

NOTES:

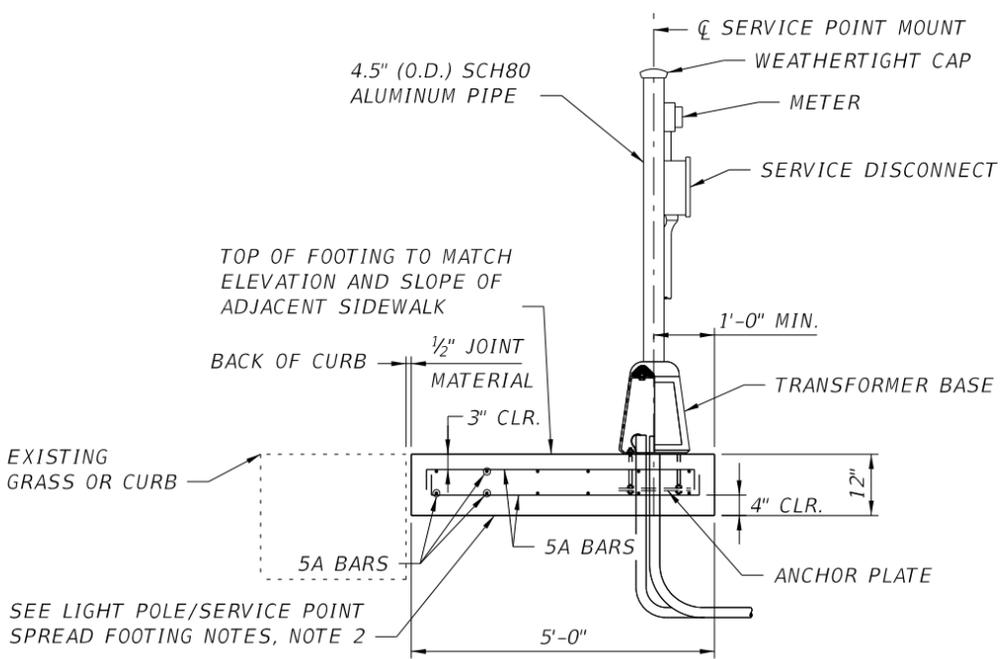
1. WORK THIS SHEET WITH FDOT INDEX NO. 415-001 BAR BENDING DETAILS.
2. ADJUST SPACING OF BARS A, B AND 5C TO CLEAR ANCHOR BOLTS.
3. FOR THE LIST OF POLES SEE POLE DATA AND LEGEND SHEET.
4. SEE SPREAD FOOTING TYPE IV FOR SERVICE POINT MOUNT DETAILS.

SPREAD FOOTING TYPE III

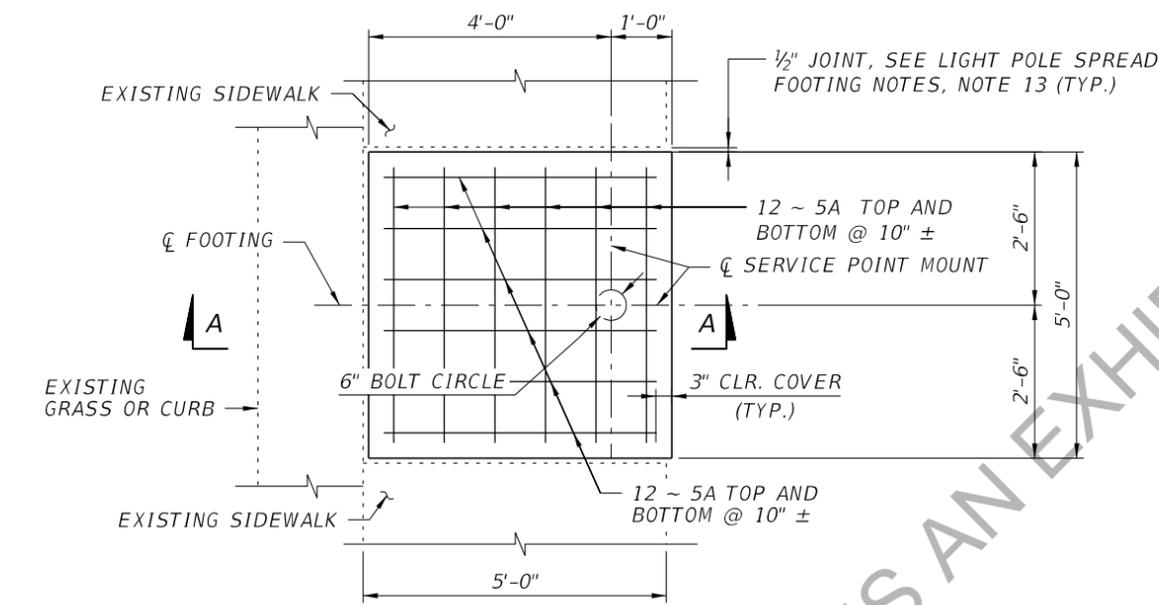
REVISIONS						DRAWN BY: DMH	CHECKED BY: JPD	DESIGNED BY: JPD	CHECKED BY: SJS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SPREAD FOOTING DETAILS		
										N/A	BROWARD	446997-1-52-01	INTERSECTION LIGHTING RETROFIT IMPROVEMENTS		SHEET NO. L-22

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



SECTION A-A



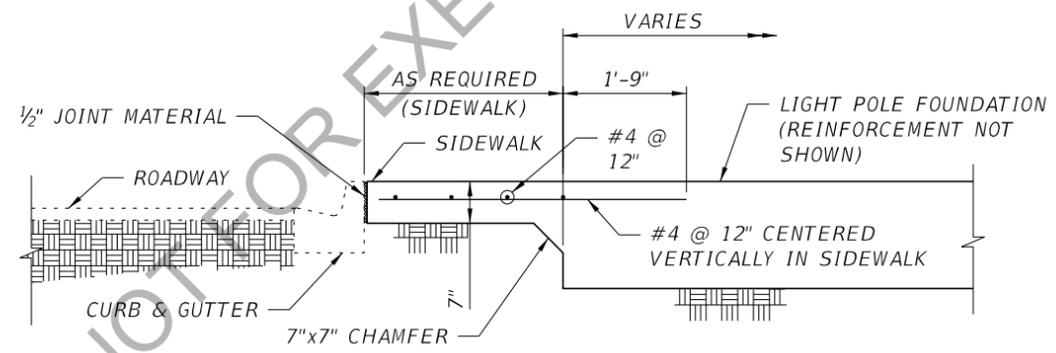
PLAN VIEW - SERVICE POINT SPREAD FOOTING

MARK	LENGTH	NO	TYP	STY	B	C	D									
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR
FOR ONE FOOTING																
5	A	5	8	24	11	3	3	5	0	0	4	0	4			

* WORK THIS TABLE WITH FDOT INDEX NO. 415-001 BAR BENDING DETAILS.

ESTIMATED FOUNDATION QUANTITIES (ONE FOOTING)		
ITEM	UNIT	QUANTITY
CONCRETE	CY	0.9
STEEL	LB	142

WHERE SPREAD FOOTING NEEDS TO BE INCORPORATED IN ADJACENT SIDEWALK, THE TOP SURFACE OF THE FOOTING SHALL BE CAST FLUSH WITH THE TOP SURFACE OF THE SIDEWALK AND SHALL RECEIVE THE SAME SURFACE TREATMENT AS THE ADJACENT SIDEWALK. EXCEPT AS SHOWN, JOINTS BETWEEN SPREAD FOOTING AND SIDEWALK SHALL BE CONSTRUCTED AS A SIDEWALK EXPANSION JOINT AND FITTED WITH 1/2" PREFORMED EXPANSION MATERIAL FOR THE FULL DEPTH OF THE SIDEWALK.



SIDEWALK/FOOTING TRANSITION DETAIL

- NOTES:
1. WORK THIS SHEET WITH FDOT INDEX NO. 639-001 SERVICE POINT DETAILS.
 2. ADJUST SPACING OF BARS 5A TO CLEAR ANCHOR BOLTS.
 3. ALUMINUM PIPE SHALL MEET THE REQUIREMENTS OF ALLUMINUM ASSOCIATION ALLOY 6061-T-6 (ASTM B209, 221, OR B308)
 4. CONCRETE: CLASS IV
 5. REINFORCING STEEL: ASTM A615 GRADE 60
 6. USE A TRANSFORMER BASE INCLUDED IN THE APPROVED PRODUCTS LIST.
 7. ATTACHMENT OF THE SERVICE POINT HARDWARE TO ALUMINUM POLE IS THE RESPONSIBILITY OF THE CONTRACTOR.
 8. REFER TO LIGHTING PLANS FOR POLE LOCATION.

SPREAD FOOTING TYPE IV

REVISIONS				TRANSYSTEMS CORPORATION CONSULTANTS 3230 W. COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FLORIDA 33309 STEVEN A. SHAUP, P.E. P.E. No. 52099 31	DRAWN BY: DMH CHECKED BY: JPD DESIGNED BY: JPD CHECKED BY: SJS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SPREAD FOOTING DETAILS	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE			BY	DESCRIPTION	ROAD NO.		
						N/A	BROWARD	446997-1-52-01	PROJECT NAME: INTERSECTION LIGHTING RETROFIT IMPROVEMENTS	SHEET NO. L-23

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

TEMPORARY TRAFFIC CONTROL NOTES:

1. MAINTAIN THE FOLLOWING REGULATORY SPEEDS:
 ALONG US-1 / SR 5 = 35 MPH
 ALONG STIRLING RD / SR 848 = 45 MPH
 ALONG ATLANTIC SHORES BLVD / NE 9TH ST = 25 MPH
2. MAINTAIN PEDESTRIAN ACCESS TO EXISTING SIDEWALKS UTILIZING STANDARD PLANS 102-660.
3. SINGLE-LANE CLOSURES ARE ALLOWED SUNDAY THRU THURSDAY FROM 10:00 PM TO 6:00 AM FOR THE FOLLOWING LOCATIONS:
 US-1 / SR 5 (NB & SB)
 STIRLING RD / SR 848 (EB)
 ATLANTIC SHORES BLVD / NE 9TH ST (WB)
4. DO NOT PERFORM WORK ALONG NORTHBOUND AND SOUTHBOUND DIRECTIONS OF US-1 / SR 5 SIMULTANEOUSLY.
5. PLACE PCMS AS SHOWN BELOW:

(I) PCMS 1 AND 2 - TWO (2) WEEKS PRIOR TO CONSTRUCTION



(II) PCMS 1 AND 2 - DURING CONSTRUCTION



PHASING NOTES

APPLY EACH STEP AT THE FOLLOWING INTERSECTIONS:

- US-1 / SR 5 & SE 3RD ST.
- US-1 / SR 5 & NE 3RD ST.
- US-1 / SR 5 & ATLANTIC SHORES BLVD. / NE 9TH ST
- US-1 / SR 5 & SE 7TH ST.
- US-1 / SR 5 & SW 3RD ST.
- US-1 / SR 5 & STIRLING RD. / SR 848
- US-1 / SR 5 & NE 1ST ST.

PHASE 1:

INSTALL LIGHTING CONDUITS, PULL BOXES, LIGHT POLES, AND LOAD CENTERS. RETROFIT LIGHTING FIXTURES ONTO EXISTING POLES.

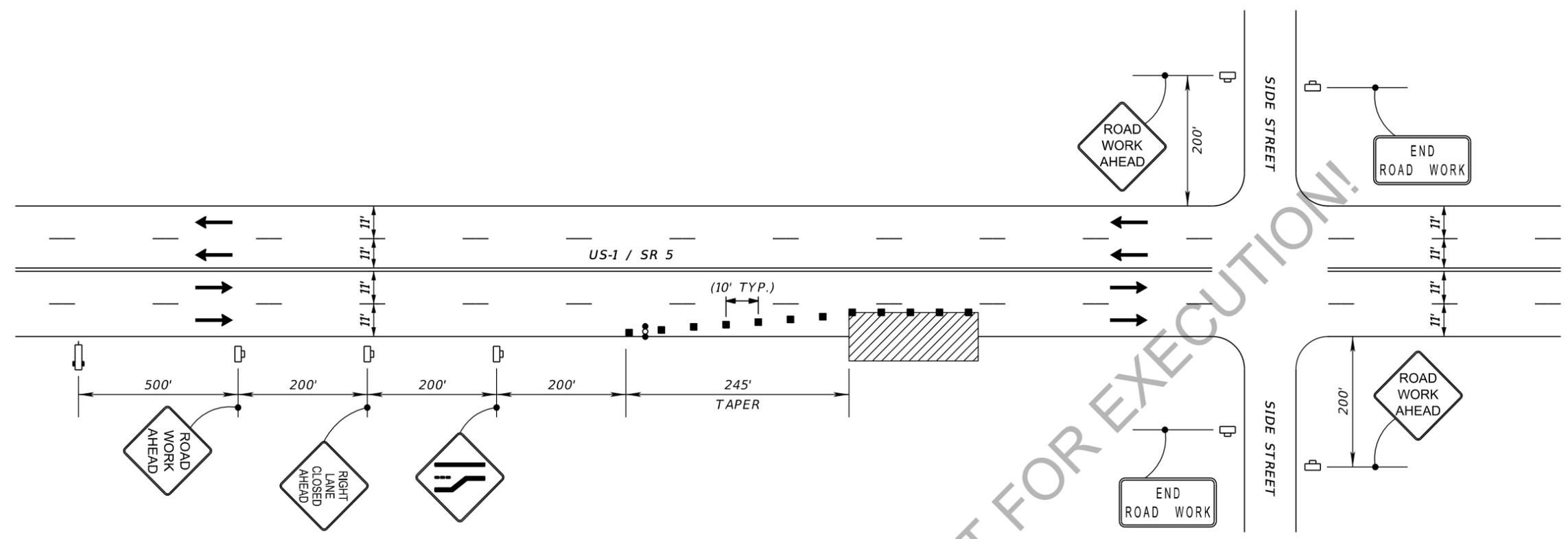
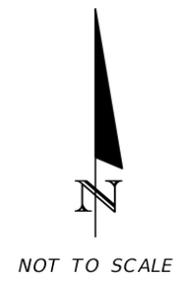
1. INSTALL ADVANCE WARNING SIGNS AS SHOWN IN DETAILS.
2. INSTALL CHANNELIZING DEVICES IN ACCORDANCE WITH STANDARD PLANS 102-600, 102-613 AND 102-615 ALONG ONE DIRECTION. CLOSE OUTSIDE LANE, SINGLE LANE CLOSURE MAY CONSIST OF BOTH LEGS OF THE INTERSECTION.
3. PERFORM ALL WORK INDICATED IN THE PLANS ALONG THE DIRECTION OF THE ROAD.
4. RESTORE SIDEWALK IMPACTED BY CONSTRUCTION.

THIS IS AN EXHIBIT ONLY... NOT FOR EXECUTION!

GENERAL NOTES

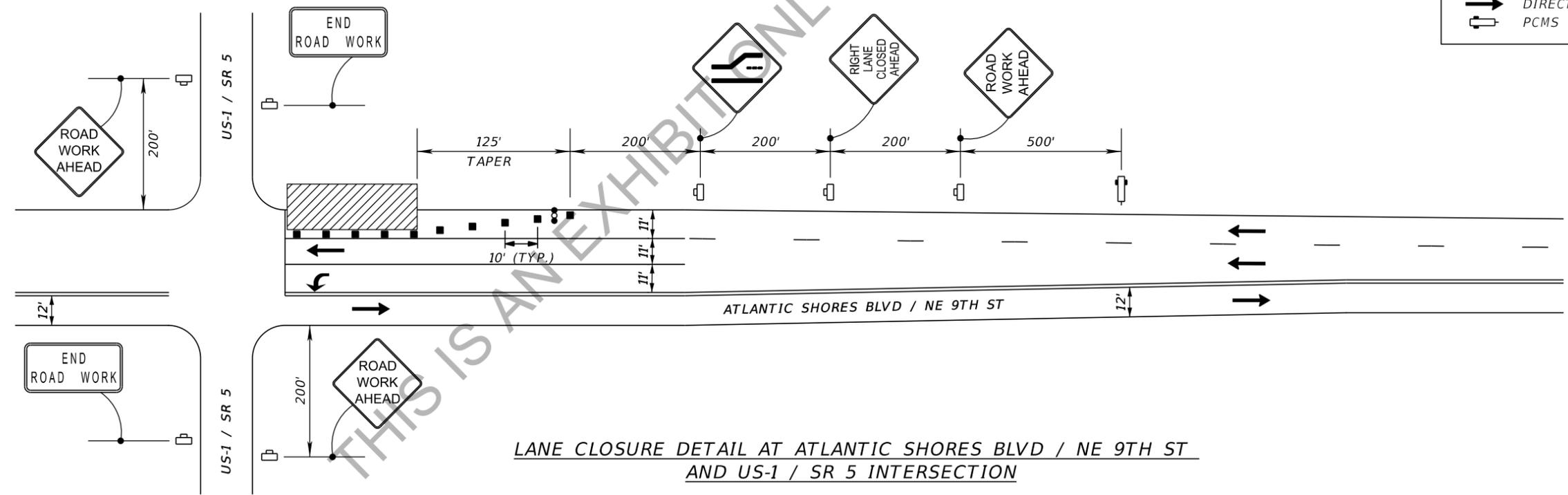
REVISIONS				IAN N. BIAVA PE LICENSE NUMBER 50700 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 32	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-24
				N/A	BROWARD	446997-1-52-01			

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



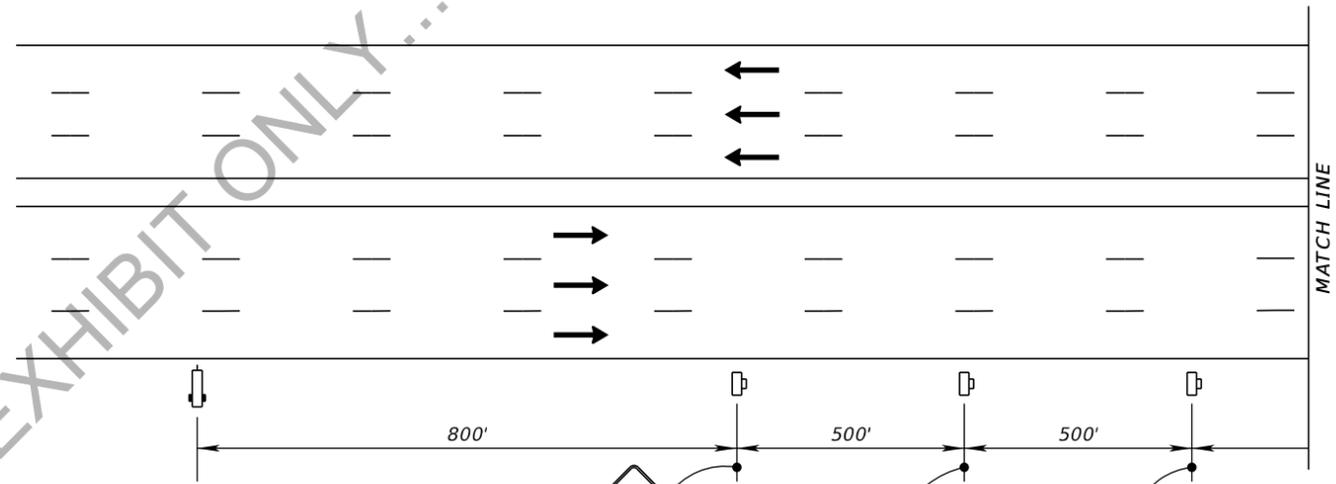
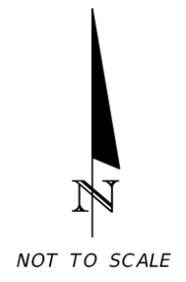
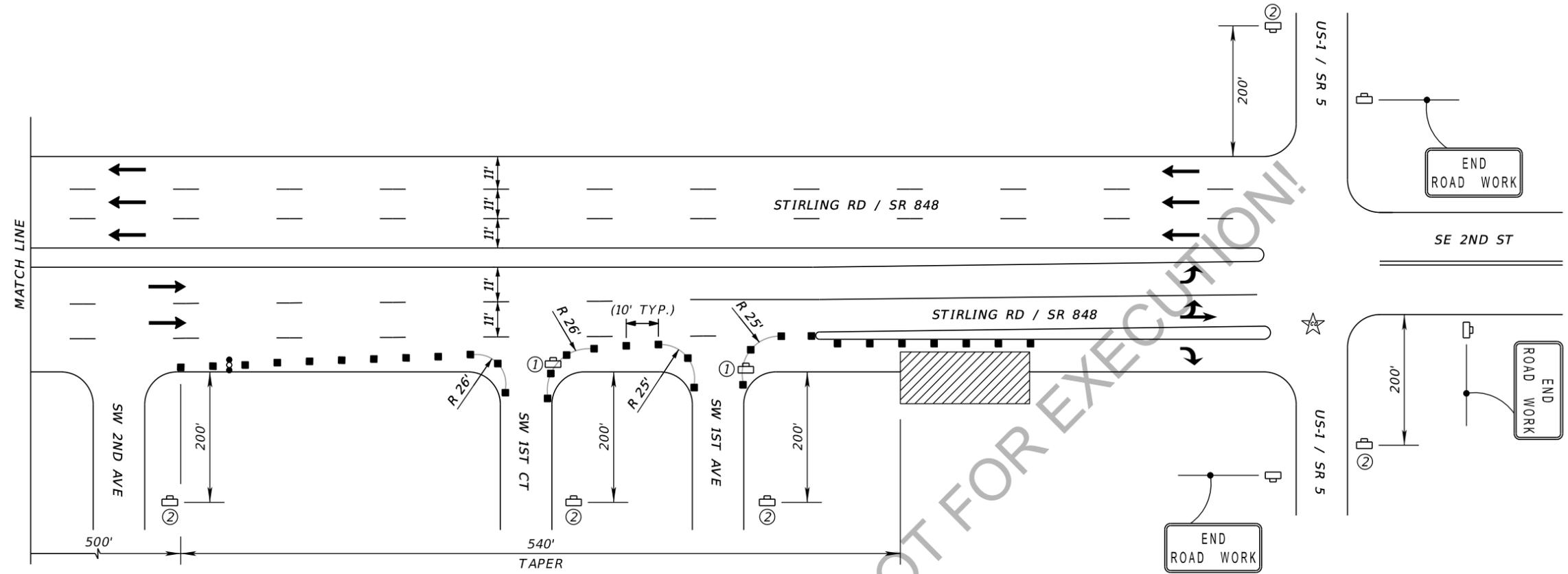
TYPICAL LANE CLOSURE DETAIL ALONG US-1 / SR 5

LEGEND	
	WORK AREA
	WORK ZONE SIGN
	CHANNELIZING DEVICE
	ARROW BOARD
	DIRECTION OF TRAFFIC
	PCMS



LANE CLOSURE DETAIL AT ATLANTIC SHORES BLVD / NE 9TH ST AND US-1 / SR 5 INTERSECTION

REVISIONS				IAN N. BIAVA PE LICENSE NUMBER 50700 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 33	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	



LEGEND	
	WORK AREA
	WORK ZONE SIGN
	CHANNELIZING DEVICE
	ARROW BOARD
	DIRECTION OF TRAFFIC
	PCMS
	TRAFFIC CONTROL OFFICER

**LANE CLOSURE DETAIL AT STIRLING RD / SR 848 AND
US-1 / SR 5 INTERSECTION**

THIS IS AN EXHIBIT ONLY... NOT FOR EXECUTION!

REVISIONS				IAN N. BIAVA PE LICENSE NUMBER 50700 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 34	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-26
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					N/A	BROWARD	446997-1-52-01	

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

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION	1			

INDEX OF SUMMARY OF QUANTITIES

SHEET NO.	SUMMARY BOX
SQ-1	SUMMARY OF LUMP SUM ITEMS
SQ-1	SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS
SQ-2	SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES
SQ-3	SUMMARY OF MONITOR EXISTING STRUCTURES
SQ-3	SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS
SQ-4	SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	P	F	P	F		
			DAYS	P	P						
0102 1	MAINTENANCE OF TRAFFIC	LS									
0102 14	TRAFFIC CONTROL OFFICER	HR									
0102 60	WORK ZONE SIGN	ED									
0102 74 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED									
0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED									
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED									
0102115	TYPE III BARRICADE	ED									

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<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION					IAN N. BIAVA PE LICENSE NUMBER 50700 TRANSYSTEMS CORPORATION CONSULTANTS 3230 W COMMERCIAL BLVD., SUITE 450 FORT LAUDERDALE, FL 33309 35		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES		SHEET NO.
REVISIONS																							
DATE	DESCRIPTION	DATE	DESCRIPTION																				
ROAD NO.		COUNTY	FINANCIAL PROJECT ID		SQ-1																		
N/A		BROWARD	446997-1-52-01		G:\FL18\0001 ContServ CR 612\TWO 20 Lighting\44699715201\roadway\SUMQRD01.dgn																		

SUMMARY OF MONITOR EXISTING STRUCTURES						
SITE NO.	LOCATION	STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		DESIGN NOTES	CONSTRUCTION REMARKS
			0108 1			
	LS					
	P		F			
ADDRESS AND/OR STA.		TOTAL				
			1			

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.						AC	P	F	P	F		
0110 1 1	CLEARING AND GRUBBING						LS							
0110 4 10	REMOVAL OF EXISTING CONCRETE						SY							

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REVISIONS																								
DATE	DESCRIPTION	DATE	DESCRIPTION																					
ROAD NO.		COUNTY	FINANCIAL PROJECT ID																					
N/A		BROWARD	446997-1-52-01																					

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