

SECTION NO.: 93020000
FM No.(s): 446173-1-52-01
COUNTY: Palm Beach
County
S.R. No.: 5

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT FOUR (4)
MAINTENANCE MEMORANDUM OF AGREEMENT (MMOA)**

THIS AGREEMENT made and entered into this date _____, 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 LAKE WORTH BEACH**, a municipal corporation existing under the Laws of Florida, hereinafter called the **AGENCY**.

WITNESSETH:

WHEREAS, the **DEPARTMENT** has jurisdiction over State Road (S.R.) 5 beginning from Mile Post (M.P.) 0.773 to 1.619 and at M.P. 1.695 to M.P. 2.071, 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 SR 5 beginning from M.P. 0.773 to M.P. 2.071 (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 **446173-1-52-01** to include decorative lighting; hereinafter called **IMPROVEMENTS** installed along SR 5 M.P. 0.773 to M.P. 2.071; and

WHEREAS, the Project involves the scope of work as described within **Exhibit A (Project Location, Description and Aerial)** and **Exhibit B (Construction Plans)**, 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 Number _____ entered this date _____, 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. RECITALS

The recitals set forth above are true and correct and are deemed incorporated herein.

2. INSTALLATION OF FACILITIES

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- A. The **DEPARTMENT** has issued Project Number **446173-1-52-01** to construct the **IMPROVEMENTS** as detailed in **Exhibit A** and **Exhibit B** that will benefit the **AGENCY**.
- B. The **IMPROVEMENTS** shall comply with the laws and regulations relating to the Americans with Disabilities Act of 1990, as currently enacted or as may be amended from time to time ("ADA"). If there are any major changes to the plan(s), the **DEPARTMENT** shall provide the modified plan(s) to the **AGENCY** and the **AGENCY** shall provide their approval or disapproval to the **DEPARTMENT** within ten (10) business days. The **DEPARTMENT** may elect to withdraw the **IMPROVEMENTS** if changes are not approved within the given time frame.
- C. The **AGENCY** shall coordinate with FWC and FDEP to meet the specific lighting requirements for sea turtle nesting beaches as needed.
- D.
- E. The **AGENCY** shall be invited to assist the **DEPARTMENT** in final inspection before acceptance of the job by the **DEPARTMENT**.

The **AGENCY** must maintain the **IMPROVEMENTS** associated within the limits of the project.

3. MAINTENANCE OF FACILITIES

- A. The **AGENCY** agrees to maintain the **IMPROVEMENTS** to be installed under Project Number **446173-1-52-01** within the limits of construction. Maintenance by the **AGENCY** will include but not limited to inspection, repair, restoration, replacement, coating and general maintenance of all decorative or non-standard features within the limits of construction. This includes Project Number **446173-1-52-01** for decorative light poles, installed along SR 5, from M.P. 0.773 to M.P. 2.071

This maintenance provision will apply to all existing decorative or non-standard lights already installed within the limits of the **AGENCY**.

- 1) The **AGENCY** agrees to maintain, at its sole cost and expense, the **IMPROVEMENTS** set forth in **Exhibit A** in compliance with any and all applicable laws which shall include, but not be limited to, laws and regulations relating to the Americans with Disabilities Act ("ADA") of 1990, as currently enacted or as may be amended from time to time.
- 2) The **IMPROVEMENTS** shall be kept clean and free from trash and debris. The **IMPROVEMENTS** shall be kept free of graffiti. The **IMPROVEMENTS** shall be free of pests such as stinging insects, rodents, and vermin, including removal of nests as needed.

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- 3) As part of the maintenance responsibility, the **AGENCY** shall keep in good repair and replace, defective or worn-out parts of the **IMPROVEMENTS**. The **AGENCY**'s responsibility to keep the **IMPROVEMENTS** in good repair shall include all necessary inspection, maintenance, repair and replacement of any type or nature, including, but not limited to, maintenance, repair, coating replacement, and replacement due to normal wear and tear, named storm event, acts of God, vandalism, and accidents. The **AGENCY** shall take all necessary steps to maintain the **IMPROVEMENTS** in a manner to protect against injury to any person or property.
- 4) The **AGENCY** shall perform all activities necessary to keep the **IMPROVEMENTS** fully operating, properly functioning, with a minimum of 90% of the lights burning for any lighting type or roadway system at all times in accordance with the original design thereof, whether necessitated by normal wear and tear, accidental or intentional damage, or acts of nature. Said maintenance shall include, but shall not be limited to, providing electrical power, and paying all charges associated therewith, routine inspection and testing, preventative maintenance, emergency maintenance, replacement of any component parts of the **IMPROVEMENTS** (including the poles and all other component parts installed as part of the **IMPROVEMENTS**), and locating (both vertically and horizontally) the **IMPROVEMENTS**, as may be necessary.
- 5) 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 relating to the maintenance obligation I function or **AGREEMENT** termination.
- 6) The **AGENCY** shall be solely responsible for any damages to surrounding property, real estate, vehicles, pedestrians, or other assets occurring as a result of maintenance and operation of the **IMPROVEMENTS** and shall repair such damage to the satisfaction of the **DEPARTMENT** at no expense to the **DEPARTMENT**, as per the requirements in **Exhibit C (Maintenance Plan Requirements)**.
- 7) The **AGENCY** shall be responsible to maintain the light pole structures, attachments and electrical components. The **AGENCY** shall replace the structure if destroyed in an accident by third parties. The **DEPARTMENT** expressly assigns its rights, interests and privileges pertaining to said **IMPROVEMENTS**' damage to the **AGENCY**, so **AGENCY** can pursue all claims and causes of actions against the third parties responsible for the damage. The **DEPARTMENT** will assist the **AGENCY** as necessary and will confirm **AGENCY'S** authorization to pursue recovery. The **AGENCY** will be responsible for all attorneys' fees and costs incurred in its recovery activities. The **AGENCY** shall not file suit in the name of the **DEPARTMENT**.
- B. After the **DEPARTMENT's** installation of the **IMPROVEMENTS**, the **AGENCY** shall be responsible for maintaining the **IMPROVEMENTS** consistent with all ADA Laws existing and as amended and shall indemnify the **DEPARTMENT** for any and all costs or expenses incurred by the **DEPARTMENT** for the **AGENCY's** failure to maintain the

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IMPROVEMENTS in compliance with all ADA Laws existing and as amended. Costs and expenses shall include the costs to maintain the **IMPROVEMENTS** in compliance with all ADA Laws existing and as amended, attorney's fees and costs and any judgments. The foregoing indemnification shall not be construed as an indemnification for the **DEPARTMENT's** failure to install the **IMPROVEMENTS** in compliance with all ADA Laws existing at the time of installation.

- 1) Adjacent sidewalk areas shall be accessible at all times during the **AGENCY's** maintenance of the **IMPROVEMENTS**. If sidewalk closures are needed, alternate routes shall be clearly identified, and missing sidewalk shall be restored either with permanent or temporary materials at the end of each workday.
 - 2) Nothing in this **AGREEMENT** should be interpreted or construed as a waiver of the **AGENCY's** or **DEPARTMENT's** rights to sovereign immunity or as an agreement to be sued by a third party. Further, there are no third-party beneficiaries to this **AGREEMENT**.
- C. All **IMPROVEMENTS** shall at all times have a notification sign posted with the name and phone number of the **DEPARTMENT** within the **AGENCY** responsible for maintenance of the **IMPROVEMENTS** so that members of the public may contact **AGENCY** regarding problems with the **IMPROVEMENTS**. The **AGENCY** shall promptly respond and correct all complaints regarding maintenance. The **IMPROVEMENTS** to be constructed with this project shall not contain advertising. Nor shall advertising be placed upon them by any party in the future.
- D. 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, 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 Design Manual (FDM), (b) Florida Green Book, (c) Standard Specifications for Roadway and Bridge Construction, (d) FDOT Standard Plans for Roadway Construction, (e) Manual on Uniform Traffic Control Devices (MUTCD), and (f) all other applicable local, state, or federal laws, rules, resolutions, or ordinances, and FDOT procedures. In the event of a conflict between documents, standards, and procedures the more stringent shall apply.
- E. Any work impacting traffic flow along SR 5 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

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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 LAKE WORTH BEACH, CITY MAYOR**, to place the **AGENCY** on notice regarding its maintenance deficiencies. Thereafter, the **AGENCY** shall have a period of sixty (60) 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 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**.

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- 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** regarding any additional **IMPROVEMENTS** installed at no cost to the **DEPARTMENT**.

7. AGREEMENT TERMINATION

This **AGREEMENT** may be terminated under anyone (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**.
- 3) By the **DEPARTMENT** with a six (6) month written notice.

8. AGREEMENT TERM

The term of this **AGREEMENT** commences upon execution by all parties. The term of this **AGREEMENT** shall remain in effect for as long as the **IMPROVEMENTS** shall exist.

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:

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- 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

The **AGENCY** shall:

- 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** for the work performed under this **AGREEMENT**; and
- 2) Expressly require any contractors 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. ENTIRE AGREEMENT

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 Local Funded Agreement(s) and State Highway Lighting Maintenance and Compensation Agreement(s) **BD648** signed between the parties, as amended, as to all other **IMPROVEMENTS** not specifically mentioned in this Agreement. The streetlights installed under this project will be compensated as streetlights under the State Highway Lighting Maintenance and Compensation Agreement. If the **DEPARTMENT** and **AGENCY** fail to agree on the annual lump sum amount to be paid under the State Highway Lighting Maintenance and Compensation Agreement, this Agreement shall

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supersede that Agreement and the **AGENCY** agrees to maintain the lights solely under this Agreement.

12. EXPENDITURE OF MONEY

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

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**:

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State of Florida Department of Transportation
Attention: District Maintenance Engineer
3400 West Commercial Blvd
Ft. Lauderdale, FL 33309-3421 If to the

AGENCY:

City of Lake Worth Beach
7 North Dixie Highway
Lake Worth Beach FL, 33460
Attention: City Mayor

17. LIST OF EXHIBITS

- Exhibit A: Project Location, Description and Aerial
- Exhibit B: Lighting Plans
- Exhibit C: Maintenance Plan Requirements

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

AGENCY:

City Of Lake Worth Beach
Corporation of the State of Florida:

By: _____ Date: _____
City Manager / Mayor

Print Name: _____

ATTEST:

By: _____ Date: _____
Clerk

Print Name: _____

Approved as to Form:

By: _____ Date: _____
City Attorney

Print Name: _____

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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: _____
Assistant District General Counsel

Print Name: _____

Date: _____

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EXHIBIT A

PROJECT LOCATION, DESCRIPTION AND AERIAL

I. Location:

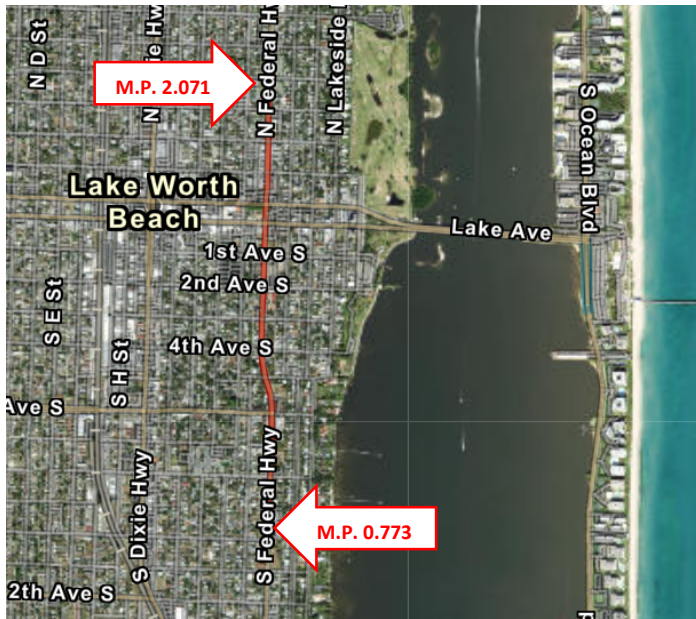
The **IMPROVEMENTS** associated with this **AGREEMENT** are located in the City of Lake Worth Beach, in Palm Beach, Florida along State Road 5, section 93020000, beginning M.P. 0.773 to M.P. 2.071.

II. Description of Work:

Project Number **446173-1-52-01** to include decorative light.

It will be the responsibility of the **AGENCY** to maintain the **IMPROVEMENTS** described in this **AGREEMENT**.

III. Aerial



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EXHIBIT B

LIGHTING PLANS

Lighting Plans prepared by Juan S. Calderon, P.E., dated January 1st, 2023, as approved by the **DEPARTMENT**.

LIGHTING PLANS (attached)

Sheets Included:

| PDF Page Number (#) | Plan Sheet (#) | Sheet(s) Description |
|---------------------|----------------|--------------------------------|
| 14 | L-1 | KEY SHEET |
| 15 | L-2 | LIGHTING DATA TABLE AND LEGEND |
| 16-20 | L-3 thru L-7 | LIGHTING PLAN |
| 21 | L-8 | SPECIAL DETAILS |
| 22 | L-9 | SERVICE POINT DETAILS |

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

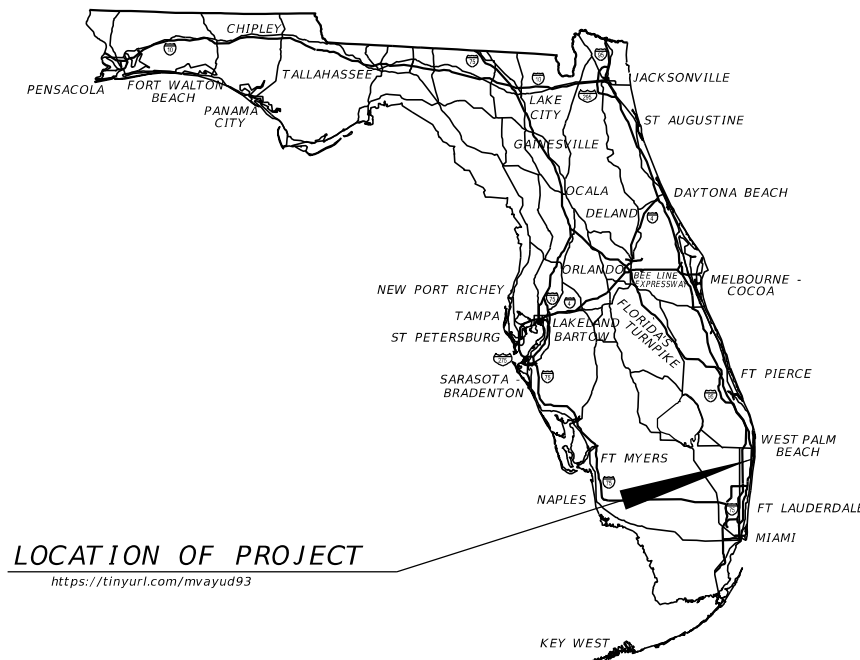
CONTRACT PLANS

FINANCIAL PROJECT ID 446173-1-52-01

PALM BEACH PALM BEACH COUNTY (93020000)

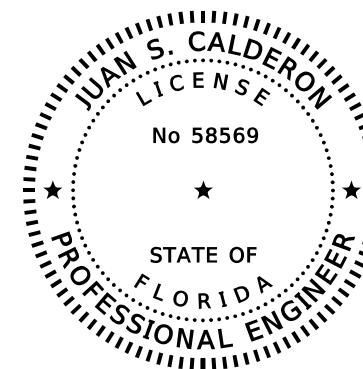
STATE ROAD NO.5 (N FEDERAL HWY) SR 5
FROM SOUTH OF 10TH AVE SOUTH TO 6TH AVE NORTH

LIGHTING PLANS



INDEX OF LIGHTING PLANS

| SHEET NO. | SHEET DESCRIPTION |
|-----------|--------------------------------|
| L-1 | KEY SHEET |
| L-2 | LIGHTING DATA TABLE AND LEGEND |
| L-3 - L-7 | LIGHTING PLANS |
| L-8 | SPECIAL DETAILS |
| L-9 | SERVICE POINT DETAILS |



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED.
AND THE SIGNATURE MUST BE VERIFIED
ON THE ELECTRONIC COPIES.

LIGHTING PLANS
ENGINEER OF RECORD:

JUAN S. CALDERON, P.E., PTOE. NO.: 58569
CALTRAN ENGINEERING GROUP, INC.
790 NW 107 AVENUE, SUITE 200
MIAMI, FL 33172
(786) 456-7700
CONTRACT NO.: CA739
VENDOR NO.: 27-4564005

FDOT PROJECT MANAGER:
LESLIE WETHERELL, P.E.

| CONSTRUCTION CONTRACT NO. | FISCAL YEAR | SHEET NO. |
|------------------------------|----------------|--------------|
| T0000 | 24 | L-1 |

LIGHTING DATA TABLE

| POLE NO. | CIRCUIT | STATION | OFFSET | SIDE | DIST. OR ARM | LUMINAIRE WATTAGE | MOUNTING HEIGHT | NUMBER OF LUMINAIRES | ARM CONFIGURATION | FOUNDATION | POLE DETAILS | PAY ITEM |
|----------|-------------|-----------|--------|------|--------------|-------------------|-----------------|----------------------|-------------------|------------|--------------|-------------|
| 1 | EXIST. B-I | 72+71.24 | 33.33 | LT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 2 | EXIST. B-I | 72+71.51 | 42.57 | RT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 3 | EXIST. B-II | 81+13.27 | 48.76 | LT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 4 | EXIST. B-II | 81+50.76 | 44.46 | RT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 5 | EXIST. C-II | 114+49.92 | 24.29 | RT | -- | 80 | 16 | 1 | POST TOP | EXIST. | RETROFIT | 715-11-213 |
| 6 | EXIST. C-I | 114+87.31 | 26.24 | LT | -- | 80 | 16 | 1 | POST TOP | EXIST. | RETROFIT | 715-11-213 |
| 7 | EXIST. C-I | 114+97.71 | 42.94 | RT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 8 | EXIST. C-I | 115+34.65 | 55.56 | LT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 9 | EXIST. D-1 | 115+49.29 | 26.80 | LT | 3 | 80 | 20 | 1 | PENDANT | EXIST. | RETROFIT | 715-11-216 |
| 10 | EXIST. D-1 | 119+05.52 | 24.13 | LT | 3 | 80 | 20 | 1 | PENDANT | EXIST. | RETROFIT | 715-11-216 |
| 11 | EXIST. D-1 | 119+37.38 | 52.93 | LT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 12 | EXIST. D-1 | 119+75.48 | 50.28 | RT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 13 | EXIST. D-1 | 119+94.03 | 23.87 | LT | 3 | 80 | 20 | 1 | PENDANT | EXIST. | RETROFIT | 715-11-216 |
| 14 | EXIST. D-1 | 123+77.77 | 40.10 | RT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
| 15 | EXIST. D-1 | 124+15.48 | 40.48 | LT | -- | 80 | 16 | 1 | POST TOP | SPECIAL | CONCRETE | 715-511-315 |
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SIGNALIZED - UNSIGNALIZED AND AND RETROFIT DESIGN CRITERIA









AVERAGE INITIAL INTENSITY (H.F.C.) 1.5 (STD.)
1.0 MIN.

AVERAGE INITIAL INTENSITY IN CROSSWALK FOR THRU APPROACH MOVEMENT (V.F.C) 1.5 (STD.)
1.0 (MIN.)

ILLUMINATION UNIFORMITY RATIOS-
AVG./MIN. 4:1 Or Less
MAX./MIN. 10:1 Or Less

WIND SPEED: 170 MPH

LEGEND

- SYMBOLS DESCRIPTION**
-  PROPOSED 80 WATT LIGHTING POST TOP MOUNTED LED LUMINAIRE WITH TYPE IV SHORT IES DISTRIBUTION. USE SESCO LIGHTING METROSCAPE LED POST-TOP LUMINAIRE FIXTURE MPTR-80W48LED3K-G3-LE45-UNV-DMG-MA2-PH9-RCD7-GN4TX, MAXIMUM CANDELA= 4466.39 AT 45 H 67V, DESIGNED FOR 8299 INITIAL LUMENS. 240V, 7-PIN RECEPTACLE FOR PHOTOELECTRIC CELL. ALSO, USE AMERON DECORATIVE STREET LIGHTING POLE (VEF06.ISPL), AS APPROVED BY THE CITY OF LAKE WORTH BEACH.
 -  EXISTING POST TOP MOUNTED TO BE RETROFITTED WITH 80W LED LUMINAIRE WITH TYPE IV SHORT IES DISTRIBUTION. USE SESCO LIGHTING METROSCAPE LED POST TOP LUMINAIRE FIXTURE MPTR-80W48LED3K-G3-LE25-UNV-DMG-MA2-PH9-RCD7-GN4TX, MAXIMUM CANDELA= 5352.09 AT 67.5 H 66V, DESIGNED FOR 8299 INITIAL LUMENS. 240V, 7-PIN RECEPTACLE FOR PHOTOELECTRIC CELL. AS APPROVED BY THE CITY OF LAKE WORTH BEACH.
 -  EXISTING POST TOP MOUNTED TO BE RETROFITTED WITH 80W LED LUMINAIRE WITH TYPE IV SHORT IES DISTRIBUTION. USE SESCO LIGHTING METROSCAPE LED POST-TOP LUMINAIRE FIXTURE MPTR-80W48LED3K-G3-LE45-UNV-DMG-MA2-PH9-RCD7-GN4TX, MAXIMUM CANDELA= 4466.39 AT 45 H 67V, DESIGNED FOR 8299 INITIAL LUMENS. 240V, 7-PIN RECEPTACLE FOR PHOTOELECTRIC CELL. AS APPROVED BY THE CITY OF LAKE WORTH BEACH.
 -  EXISTING PENDANT MOUNTED TO BE RETROFITTED WITH 80W LED LUMINAIRE (PENDANT) WITH TYPE IV SHORT IES DISTRIBUTION. USE SESCO LIGHTING METROSCAPE LED PENDANT LUMINAIRE FIXTURE MSR-80W48LED3K-G3-LE45-UNV-DMG-MA2-PH9-RCD7-GN4TX, MAXIMUM CANDELA= 4389.19 AT 45 H 70V, DESIGNED FOR 8152 INITIAL LUMENS. 240V, 7-PIN RECEPTACLE FOR PHOTOELECTRIC CELL. AS APPROVED BY THE CITY OF LAKE WORTH BEACH.
 -  EXISTING LIGHTING POLE AND LUMINAIRE (POST TOP MOUNT) TO REMAIN.
 -  EXISTING LIGHTING POLE AND LUMINAIRE (PENDANT) TO REMAIN.
 -  2" HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT DIRECTIONAL BORE. PROPOSED CONDUCTORS INSIDE CONDUIT TO BE RHW-2/RHH/XLP ONE BLACK INSULATION AND ONE WHITE INSULATION. RUN 1#6 GROUNDING CONDUCTOR WITH RHW-2 GREEN INSULATION INSIDE OF CONDUIT WITH OTHER CONDUCTORS.
 -  PROPOSED LIGHTING PULL BOX.
 -  EXISTING PULL BOX.
 -  EXISTING SERVICE POINT.

NOTES:

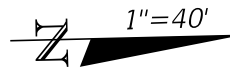
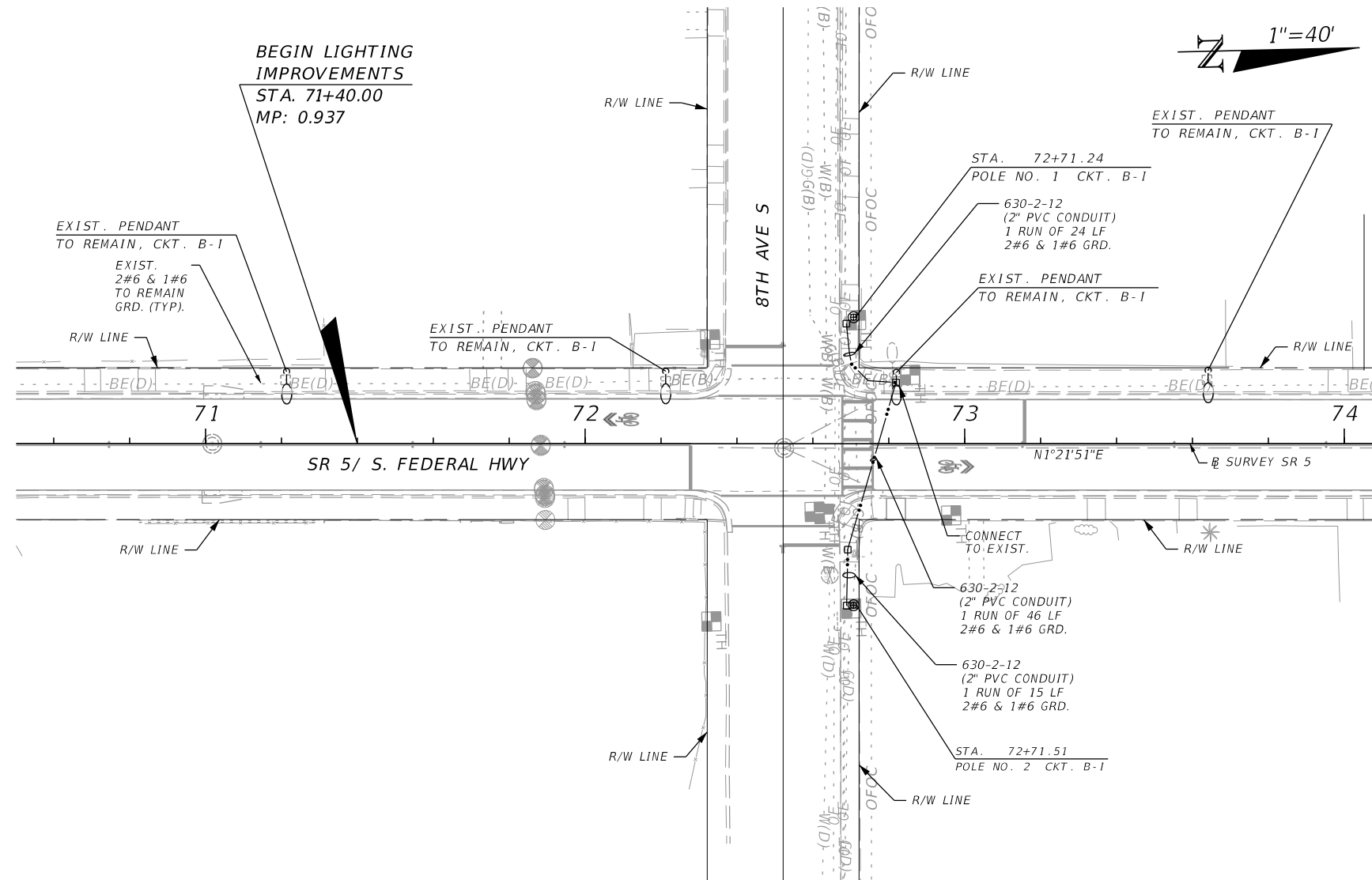
1. REFER TO ROADWAY COMPONENT SET FOR GENERAL NOTES.
2. THE MAINTAINING AGENCY IS LAKE WORTH BEACH ELECTRIC UTILITIES.
3. THE CONTRACTOR TO UTILIZE EQUIPMENT CAPABLE OF CONSTRUCTING THE AUGER AND INSTALLING THE LIGHTING POLES UNDER THE POWER/UTILITY LINES.

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| REVISIONS | | | | ENGINEER OF RECORD | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | LIGHTING DATA TABLE AND LEGEND | SHEET NO. |
| DATE | DESCRIPTION | DATE | DESCRIPTION | JUAN S. CALDERON, P.E. LICENSE NUMBER 58569 CALTRAN ENGINEERING GROUP 790 NW 107 AVE, SUITE 200 MIAMI, FLORIDA, 33172 | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | | SR 5 | PALM BEACH | 446173-1-52-01 | | |

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| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD
 JUAN S. CALDERON, P.E.
 LICENSE NUMBER 58569
 CALTRAN ENGINEERING GROUP
 790 NW 107 AVE, SUITE 200
 MIAMI, FLORIDA, 33172

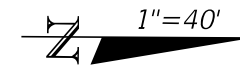
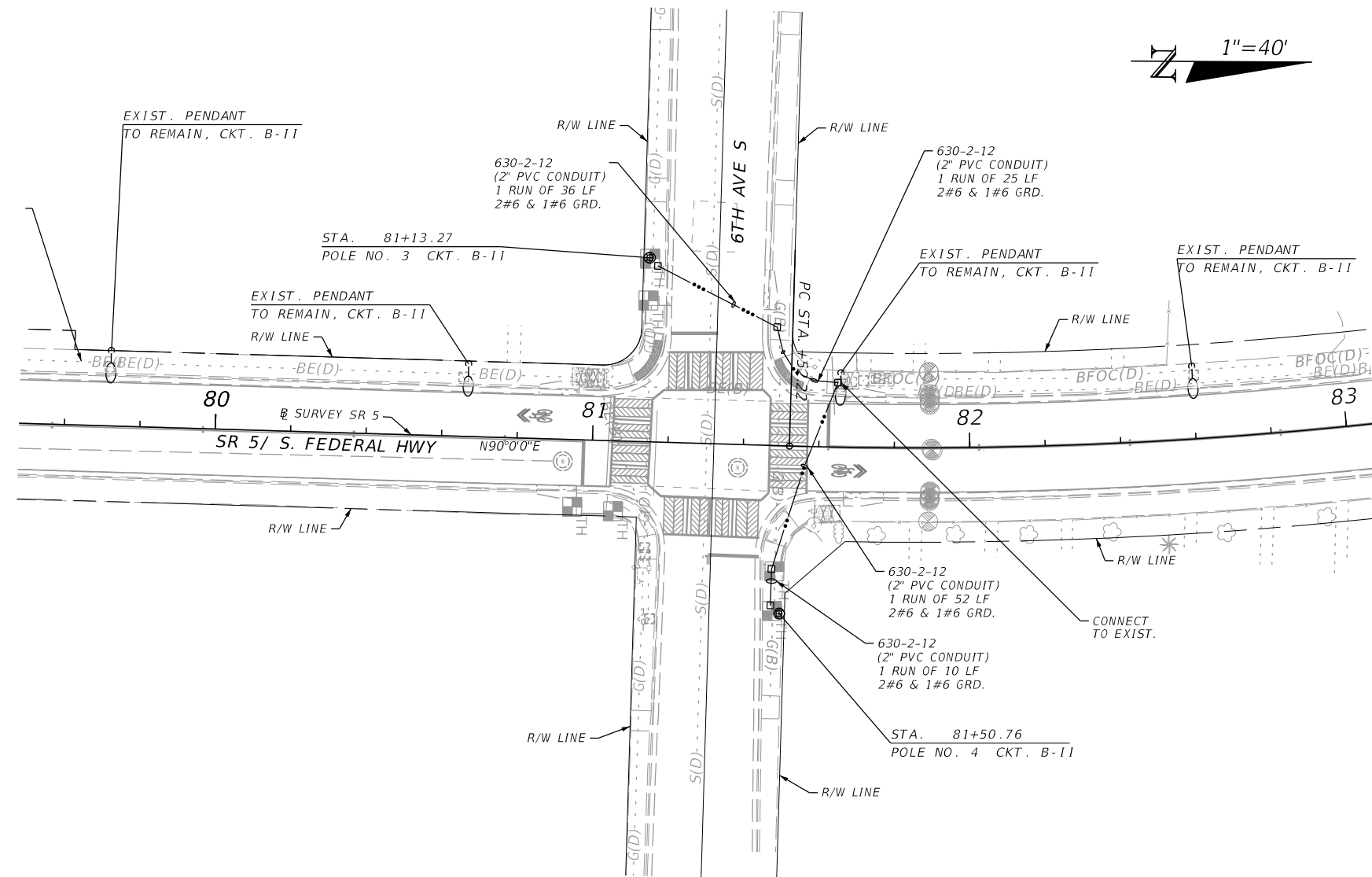
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| SR 5 | PALM BEACH | 446173-1-52-01 |

LIGHTING PLANS

SHEET NO.
 L-3

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| | | | |

ENGINEER OF RECORD
 JUAN S. CALDERON, P.E.
 LICENSE NUMBER 58569
 CALTRAN ENGINEERING GROUP
 790 NW 107 AVE, SUITE 200
 MIAMI, FLORIDA, 33172

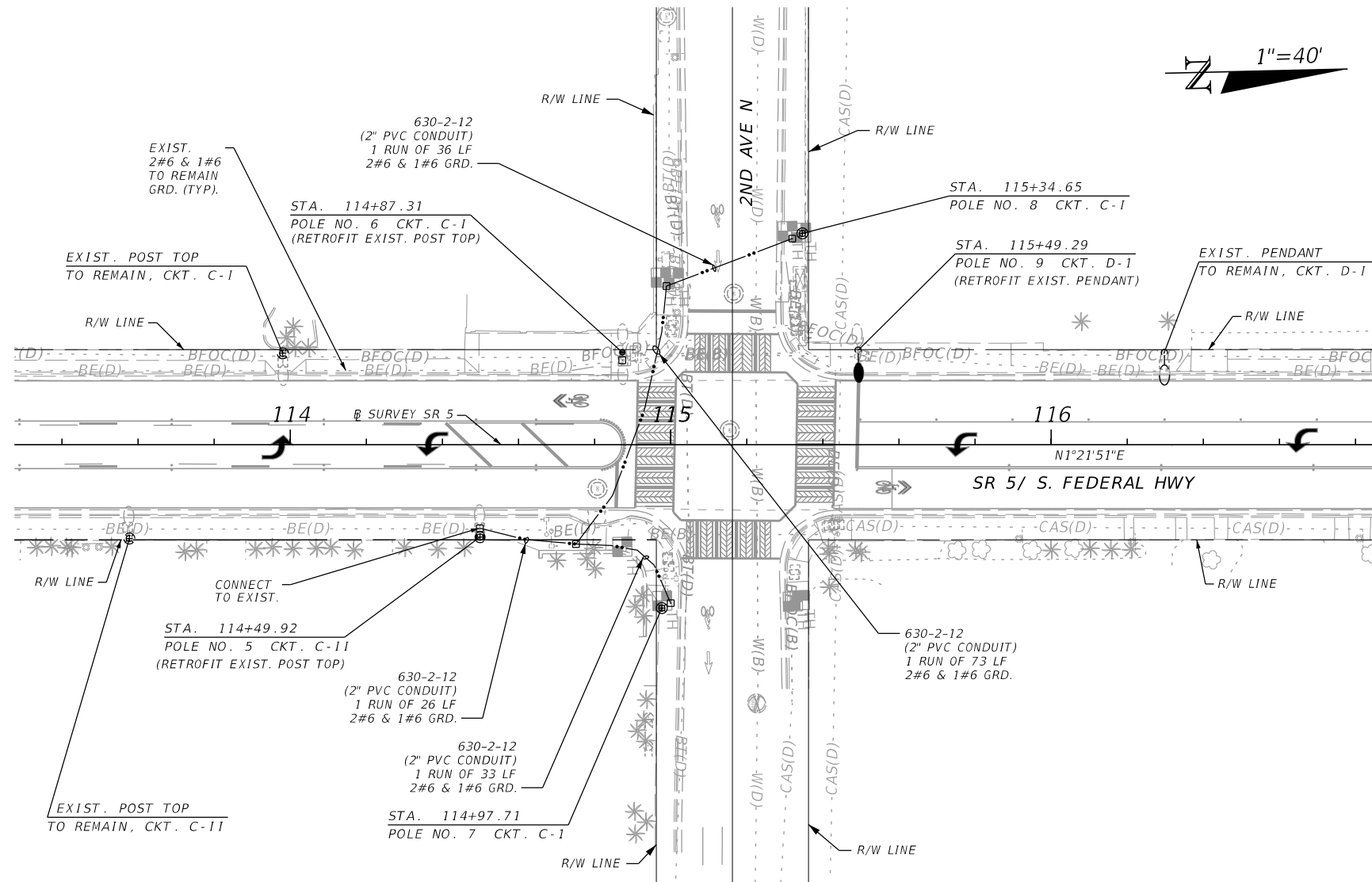
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| SR 5 | PALM BEACH | 446173-1-52-01 |

LIGHTING PLANS

SHEET NO.
 L-4

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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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ENGINEER OF RECORD
 JUAN S. CALDERON, P.E.
 LICENSE NUMBER 58569
 CALTRAN ENGINEERING GROUP
 790 NW 107 AVE, SUITE 200
 MIAMI, FLORIDA, 33172

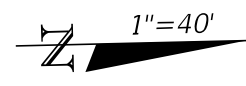
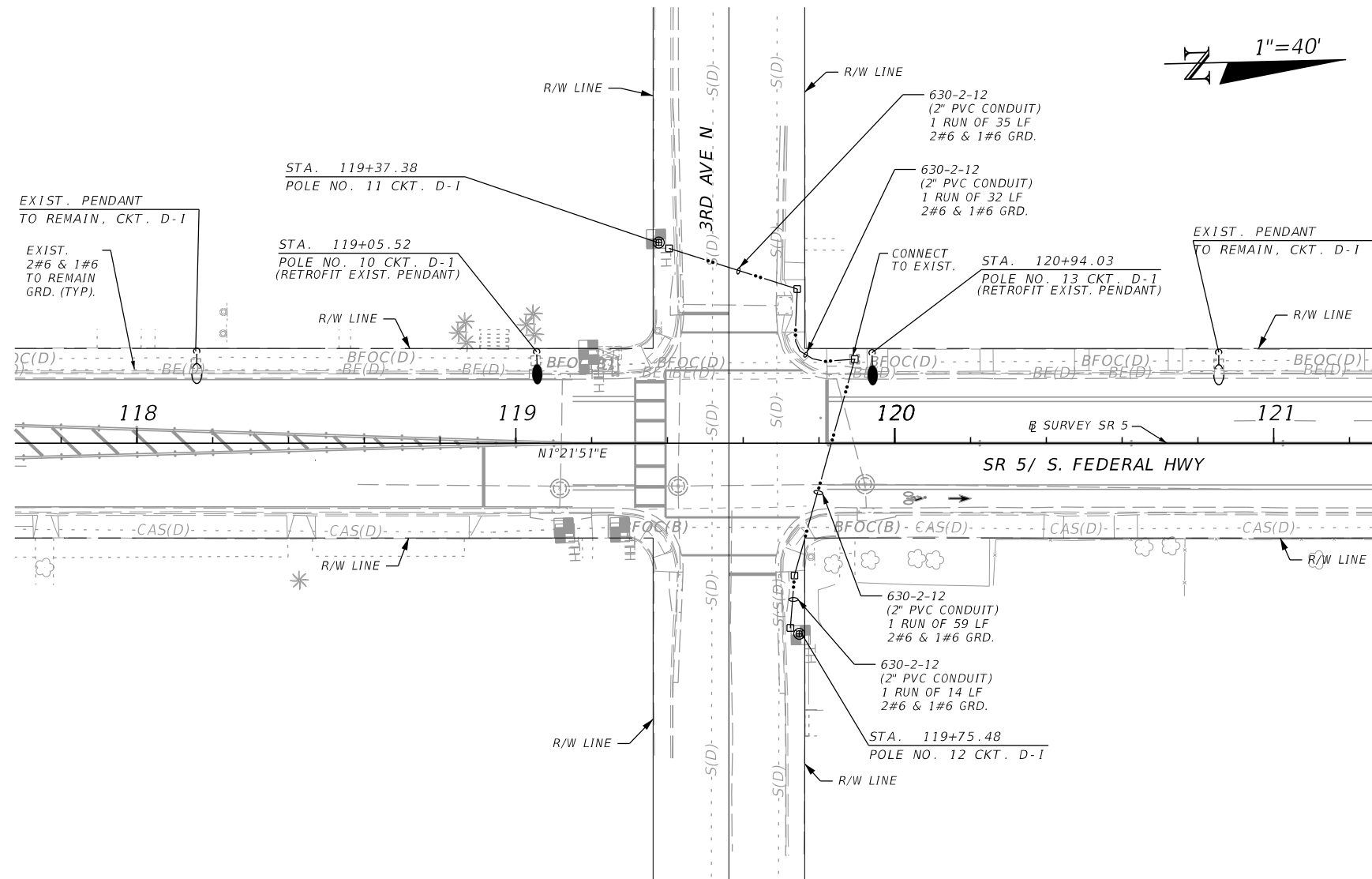
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| SR 5 | PALM BEACH | 446173-1-52-01 |

LIGHTING PLANS

SHEET NO.
 L-5

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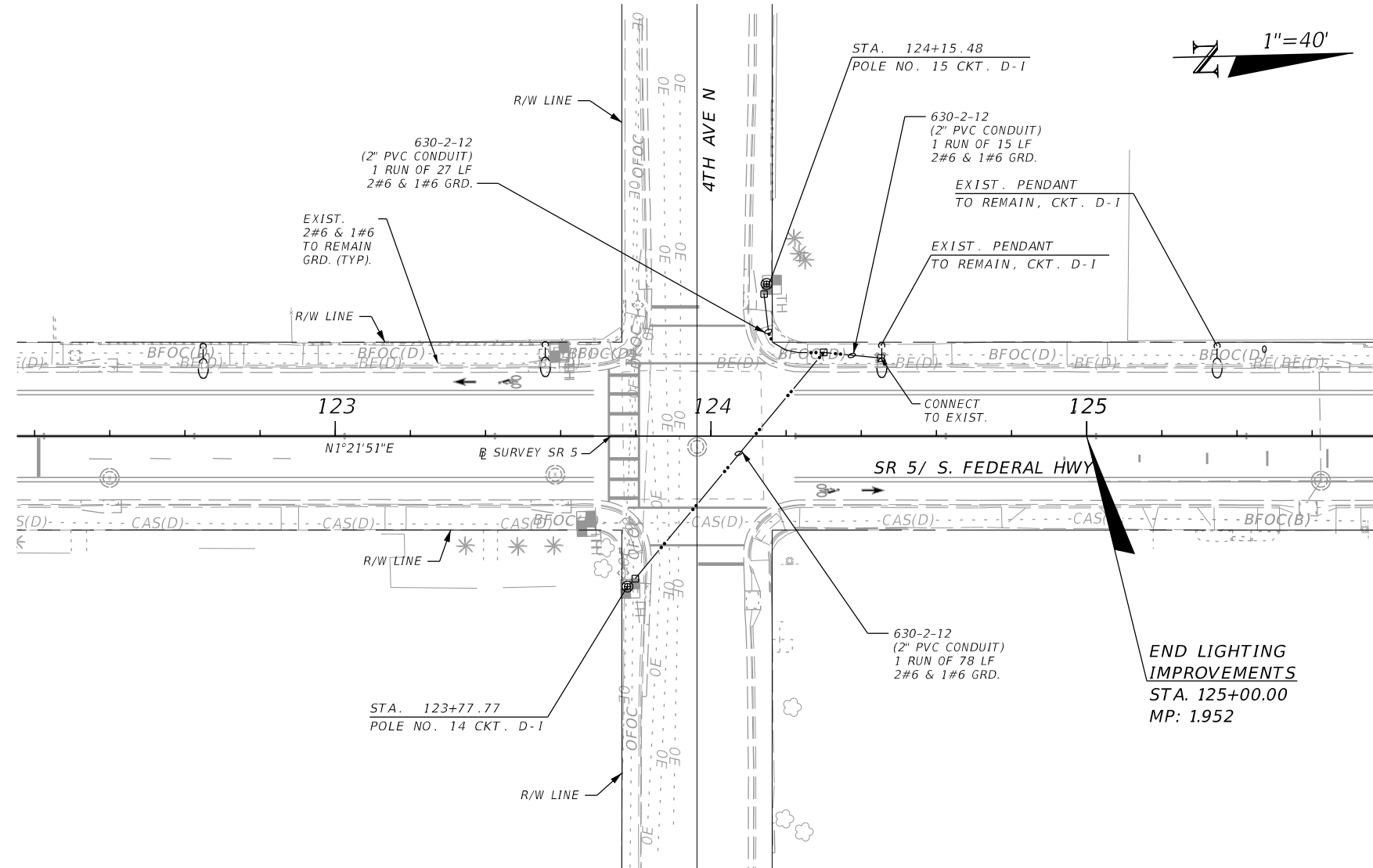
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| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. |
|-----------|-------------|------|-------------|---|--|------------|----------------------|--------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | JUAN S. CALDERON, P.E. LICENSE NUMBER 58569 CALTRAN ENGINEERING GROUP 790 NW 107 AVE, SUITE 200 MIAMI, FLORIDA, 33172 | SR 5 | PALM BEACH | 446173-1-52-01 | L-6 |

LIGHTING PLANS

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ENGINEER OF RECORD
 JUAN S. CALDERON, P.E.
 LICENSE NUMBER: 58569
 CALTRAN ENGINEERING GROUP
 790 NW 107 AVE., SUITE 200
 MIAMI, FL 33172

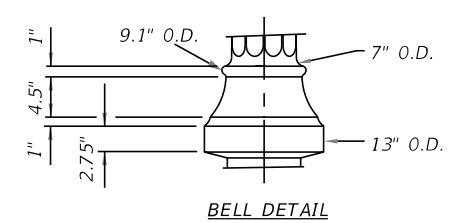
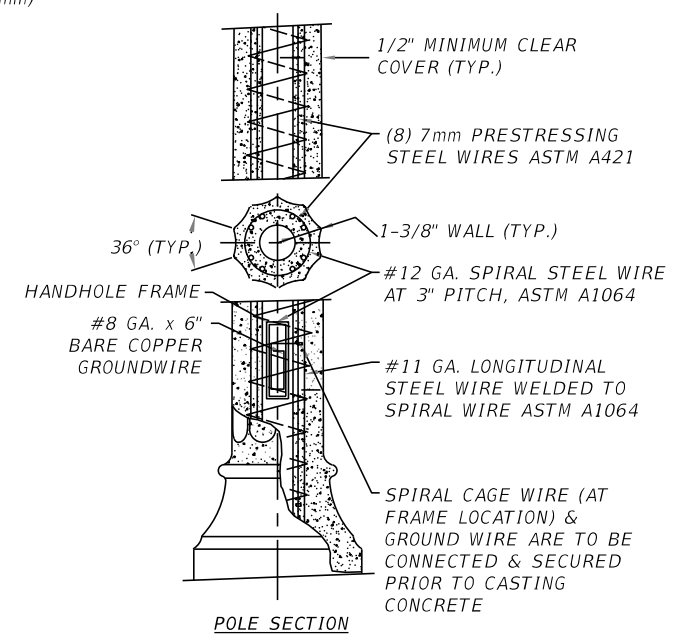
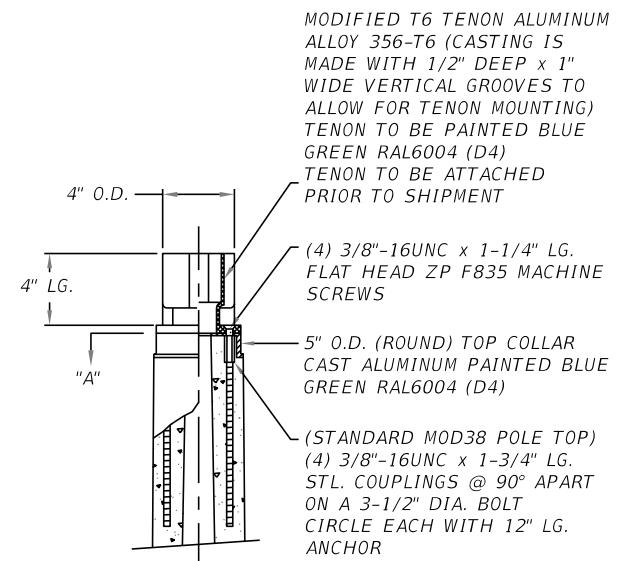
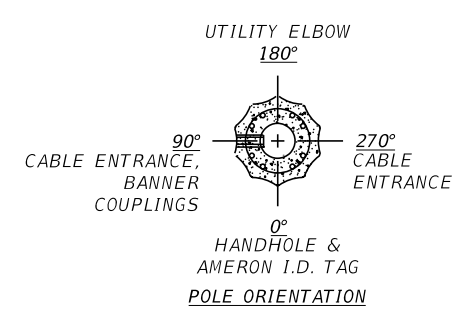
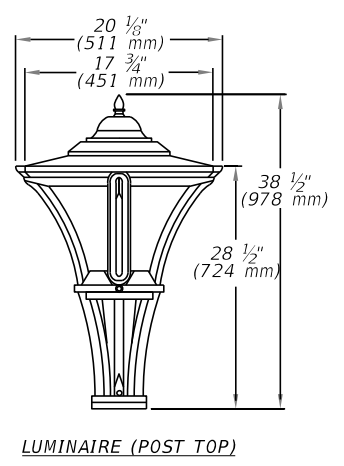
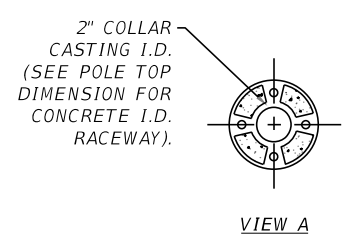
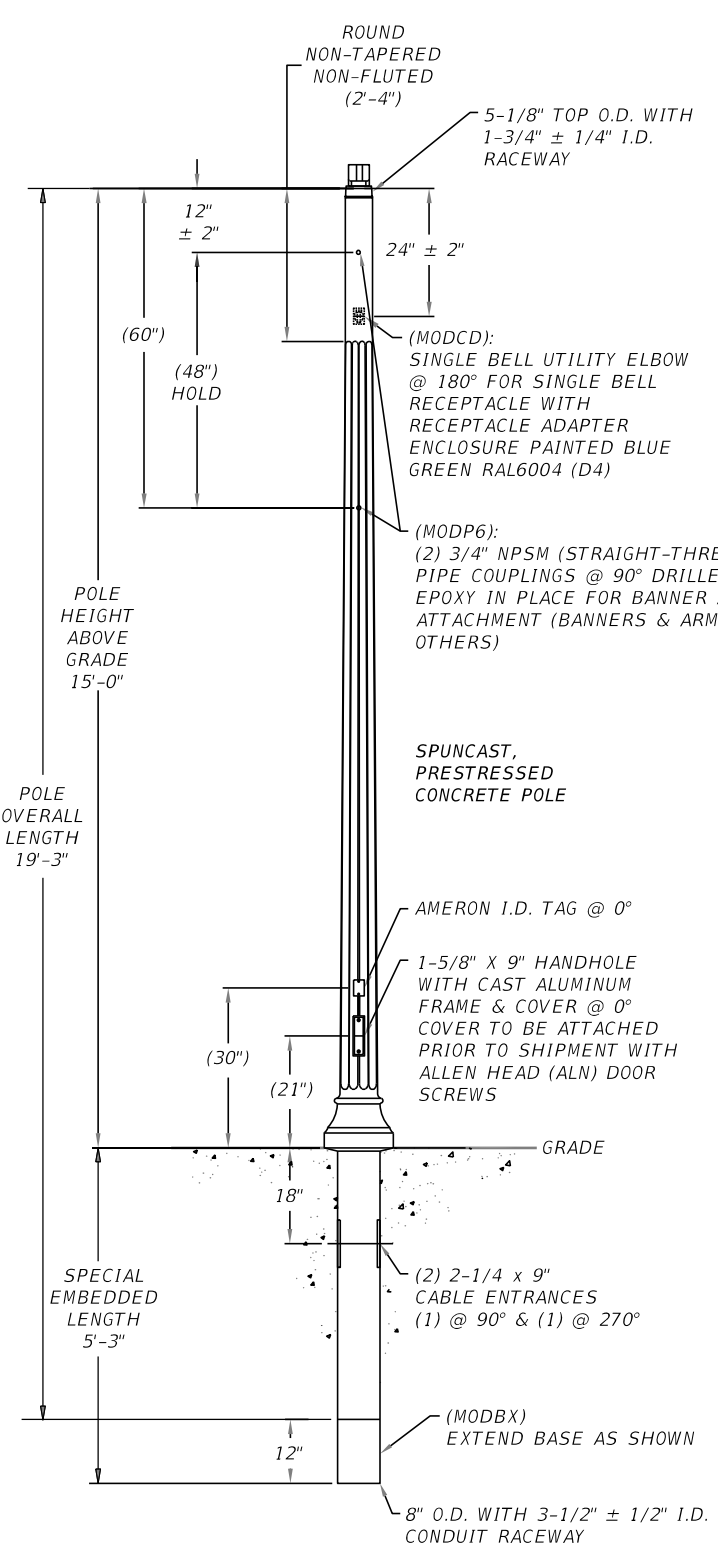
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | |
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| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
| SR 5 | PALM BEACH | 446173-1-52-01 |

LIGHTING PLANS

SHEET NO.
 L-7

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TRADITIONAL VICTORIAN II EMBEDDED FLUTED POLE

| POLE DESIGNATION | POLE HEIGHT ABOVE GRADE | SPECIAL EMBEDDED DEPTH | OVERALL POLE LENGTH | BELL DIA | ULTIMATE GROUND LINE MOMENT (ft.-lbs.) | POLE WEIGHT (lbs.) |
|------------------|-------------------------|------------------------|---------------------|----------|--|--------------------|
| VEF04.6SPL | 15'-0" | 5'-3" | 20'-3" | 13" | 15,000 | 755 |

| "F" LEVEL POLE CONFIG CODES | | |
|-----------------------------|--------|-------|
| OPTION CLASS | ENTRY | INFO. |
| COATING | A | |
| HH COVER | 66521E | |
| DRILL-IN MOD | MODP6 | |

| "P" LEVEL POLE CONFIG CODES | | |
|-----------------------------|----------|--------|
| OPTION CLASS | ENTRY | INFO. |
| MIX | 41 | |
| FINISH | 3 | |
| COLLAR | 65825ED4 | ROUND |
| POLE TOP CONFIG. | MOD38 | |
| ELEC. ACC. | MODCD | |
| SPL. POLE LG. | MODBX | |
| STRUCT. MOD. | MODDCI | NOTE 8 |

| QTY | SHIPPING ASSEMBLY 2301-021 BILL OF MATERIAL |
|-----|--|
| 1 | VEF04.6*413A-9 |
| 1 | 40100EM4D4A - MOD. CAST ALUMINUM T6 TENON ASSEMBLY, 4" O.D. x 4" LG. (D4). |
| 1 | 45133ED4A - SINGLE BELL RECEPTACLE ASSEMBLY (D4). |

- NOTES:
- MIX (413A): GREEN NATURAL, EXPOSED AGGREGATE FINISH, WITH ARCHITECTURAL GLOSS ACRYLIC COATING.
 - ASTM C-150 TYPE III GRAY CEMENT.
 - f'c @ 28 DAYS = 7,000 PSI, USING SPUN CYLINDER TEST.
 - f'c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.
 - POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.
 - PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
 - POLE IS FULLY PRESTRESSED WITH (8) 7mm ASTM A421 STEEL WIRES.
 - MODDCI: CORROSION INHIBITOR MIX MODIFICATION.
 - THE POLE (& IMPLIED TENON TOP ASSEMBLY) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE POST TOP FIXTURE (NOT TO EXCEED, 2.5 SQ FT EPA, 50 LBS) AS DESIGNED PER 2015 AASHTO LTS-1 USING 160 MPH WIND ZONE (3-SECOND GUSTS), CATEGORY II, NON-BUILDING STRUCTURE, EXPOSURE C, SURFACE ROUGHNESS C, SITE CLASS D, NO HILL NOR ESCARPMENT. THE POLE IS ALSO DESIGNED TO WITHSTAND (1) POST TOP FIXTURE & (1) 24" x 48" BANNER (NOT TO EXCEED 9.2 SQ. FT. EPA, 15 LBS) CENTERED NO HIGHER THAN 12'-0" ABOVE GRADE AS DESIGNED PER 2015 AASHTO LTS-1 USING A 120 MPH WIND ZONE (3-SECOND GUSTS), CATEGORY II, NON-BUILDING STRUCTURE, EXPOSURE C, SURFACE ROUGHNESS C, SITE CLASS D, NO HILL NOR ESCARPMENT. PLEASE CONTACT & ADVISE MANUFACTURER IF INTENDED LOADING EXCEEDS THESE VALUES.
 - MANUFACTURER SUGGESTS PLACING ALL BANNER PIECES OUT OF REACH OF PEDESTRIAN TO MINIMIZE LIKELIHOOD OF VANDALISM.
 - CONTRACTOR TO SUPPLY SIGNED AND SEALED WINDLOAD & EMBEDMENT CALCULATIONS THAT MEET OR EXCEED THE RECOMMENDATION.
 - THE RECOMMENDED AUGER HOLE DIAMETER IS 18".

| MATERIAL LIST | | | | |
|---------------|-------------|-------------------|-----|-------|
| QTY | PART NUMBER | DESCRIPTION | ORG | NOTES |
| 1 | 2301-021 | SHIPPING ASSEMBLY | ANN | |

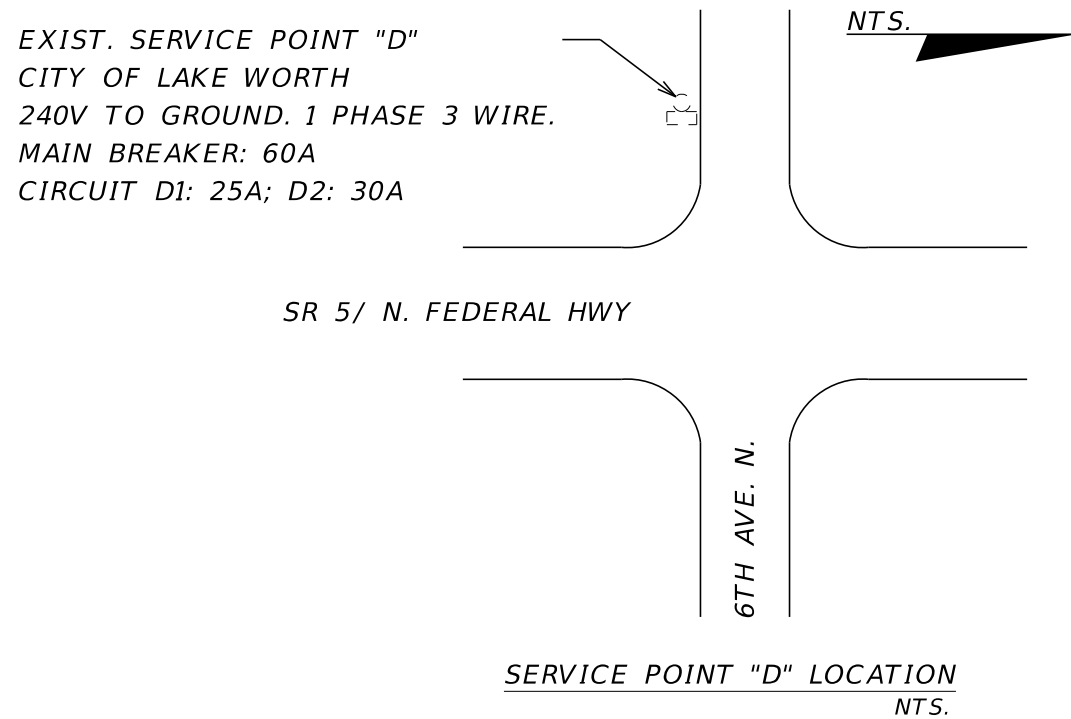
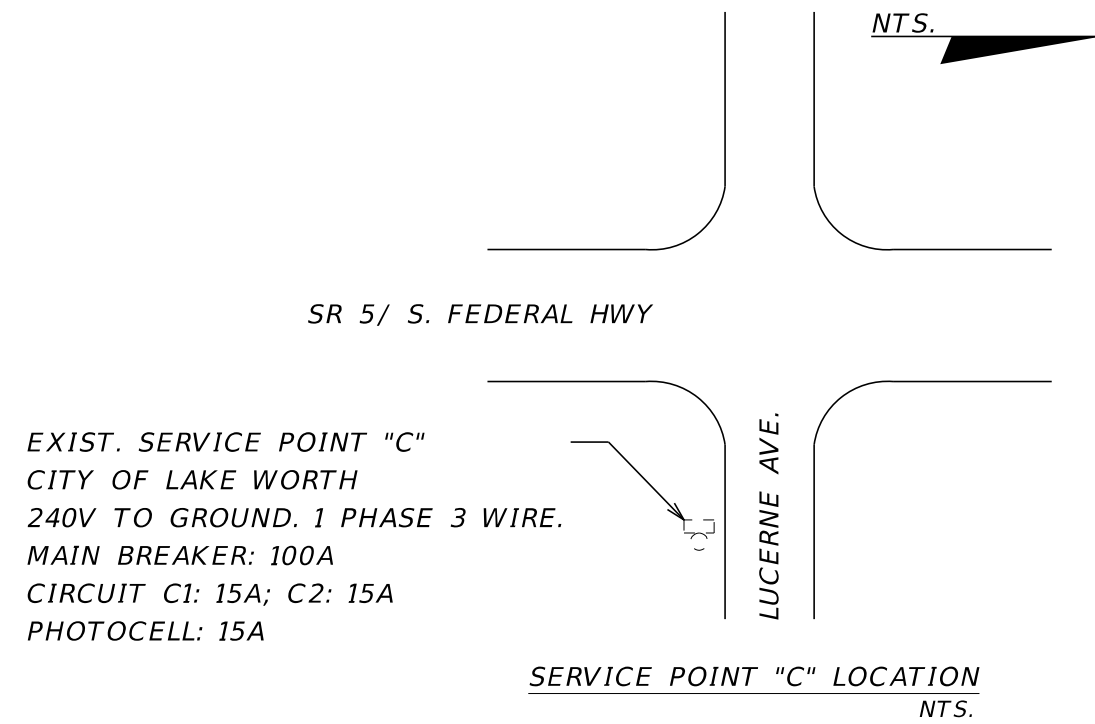
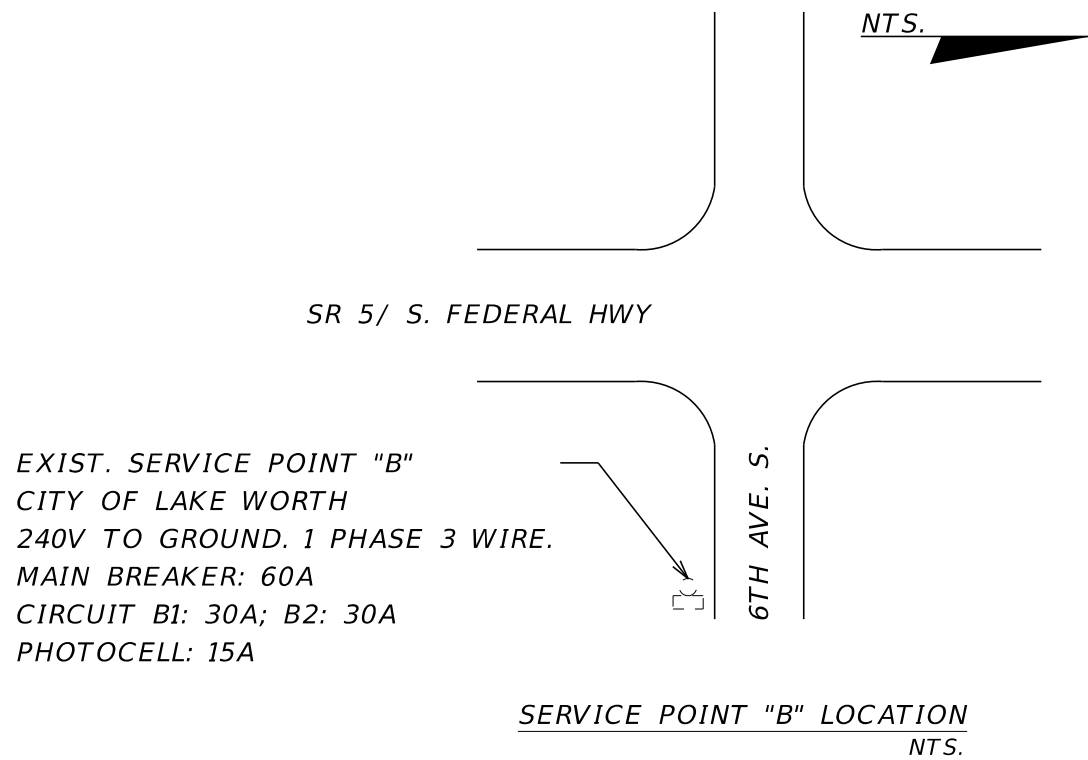
POST TOP

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SHEET NO. |
|-----------|-------------|------|-------------|---|---|------------|----------------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | JUAN S. CALDERON, P.E. LICENSE NUMBER 58569 CALTRAN ENGINEERING GROUP 790 NW 107 AVE, SUITE 200 MIAMI, FLORIDA, 33172 | SR 5 | PALM BEACH | 446173-1-52-01 | L-8 |

SPECIAL DETAILS

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| DATE | DESCRIPTION | DATE | DESCRIPTION | JUAN S. CALDERON, P.E. LICENSE NUMBER 58569 CALTRAN ENGINEERING GROUP 790 NW 107 AVE, SUITE 200 MIAMI, FLORIDA, 33172 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | |
| | | | | 22 | SR 5 | PALM BEACH | 446173-1-52-01 | SERVICE POINT DETAILS |
| | | | | | | | | L-9 |

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SECTION NO.: 93020000
FM No.(s): 446173-1-52-01
COUNTY: Palm Beach
County
S.R. No.: 5

EXHIBIT C

MAINTENANCE PLAN REQUIREMENTS

In reference to Maintenance to be performed under this **AGREEMENT**, the **AGENCY** shall submit to the **DEPARTMENT** a maintenance plan detailing the means and methods for accomplishing any maintenance or repairs to the **IMPROVEMENTS** in accordance with all **DEPARTMENT** Standards, Procedures and Specifications. This plan shall be submitted and approved by the **DEPARTMENT** prior to commencing any maintenance or repair activities. The **AGENCY** shall comply with the **DEPARTMENT's** applicable Maintenance Rating Program Standards. 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