

**Lee County Board Of County Commissioners
Agenda Item Summary**

Blue Sheet No. 20040715

1. REQUESTED MOTION:

ACTION REQUESTED:

Approve the Joint Project Agreement with the Florida Department of Transportation for roadway lighting on SR 45/ US 41 from a point North of College Parkway to a point South of South Road. Also, approve the Resolution authorizing the Chairman to execute this Agreement.

WHY ACTION IS NECESSARY:

Requires Board of County Commissioner approval for agreements.

WHAT ACTION ACCOMPLISHES:

By agreeing to the Agreement, Lee County will assume the responsibility of maintenance and energy cost for this proposed lighting system. Lee County shall, at its sole cost and expense, maintain the roadway lighting system throughout its expected useful life.

2. DEPARTMENTAL CATEGORY:

COMMISSION DISTRICT #

C9C

3. MEETING DATE:

06-22-2004

4. AGENDA:

- CONSENT
- ADMINISTRATIVE
- APPEALS
- PUBLIC
- WALK ON
- TIME REQUIRED:

5. REQUIREMENT/PURPOSE:
(Specify)

- STATUTE
- ORDINANCE
- ADMIN. CODE
- OTHER

6. REQUESTOR OF INFORMATION:

- A. COMMISSIONER
 - B. DEPARTMENT Transportation
 - C. DIVISION
- BY: Scott M. Gilbertson, P. E.
Director

7. BACKGROUND:

The Florida Department of Transportation (FDOT) has agreed to enter into agreement with Lee County for roadway lighting for the project identified as SR 41/US 41 from a point 1298 feet North of College Parkway to a point 100 feet South of South Road. In maintaining the Roadway Lighting System, Lee County shall perform all activities necessary to keep the Roadway Lighting System fully and properly functioning at all times for its normal expected useful life in accordance with the original design thereof, whether necessitated by normal wear and tear, accidental or intentional damage, or acts of nature. In addition to the costs of maintaining the Roadway Lighting System, Lee County shall be responsible for all costs of operating the Roadway Lighting System, including, but not limited to, all costs of electrical power consumed by the Roadway Lighting System and all other electrical charges.

FDOT will reimburse Lee County for about 60% to 70% of the costs to operate the system of lights, as per the state Highway Lighting, Maintenance and Compensation Agreement, approved at the 10/15/2002 BOCC meeting, Blue Sheet #20021082, Item C9B.

8. MANAGEMENT RECOMMENDATIONS:

9. RECOMMENDED APPROVAL:

A Department Director	B Purchasing or Contracts	C Human Resources	D Other	E County Attorney	F Budget Services				G County Manager
<i>[Signature]</i>		N/A		<i>[Signature]</i>	OA	COM	Risk	GC	<i>[Signature]</i> 6-3-04
						<i>[Signature]</i> 6/7/04	<i>[Signature]</i> 6/7/04	<i>[Signature]</i> 6/7/04	

10. COMMISSION ACTION:

- APPROVED
- DENIED
- DEFERRED
- OTHER

Rec. by CoAtty
Date: *6/3/04*
Time: *3:55*
3:00m
Forwarded To:
[Signature]

RECEIVED BY
COUNTY ADMIN: *[Signature]*
6-4-4
9:20
COUNTY ADMIN
FORWARDED TO: *[Signature]*
6-10-04
9 Am

LEE COUNTY RESOLUTION NO. _____

**A RESOLUTION AUTHORIZING LEE COUNTY TO
ENTER INTO A ROADWAY LIGHTING SYSTEM MAINTENANCE AGREEMENT
WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION
ON SR 45/US 41, FROM NORTH OF COLLEGE PARKWAY TO SOUTH OF SOUTH ROAD**

THIS IS A RESOLUTION to the Board of County Commissioners, Lee County, Florida, a political subdivision of the State, authorizing the execution of a Roadway Lighting System Agreement with the Florida Department of Transportation (FDOT) for SR 45/US 41, from North of College Parkway to South of South Road.

WHEREAS, Lee County, Florida, has the statutory authority to enter into an Agreement with the Florida Department of Transportation in accordance with Section 334.044, Florida Statutes.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS, LEE COUNTY, FLORIDA, that:

1. Roadway Lighting System Agreement on SR 45/US 41, from North of College Parkway to South of South Road, is hereby approved.
2. In return for the installation of the Lighting System by Florida Department of Transportation the Roadway, and as provided for in this Agreement, the County agrees to maintain the Lighting System.
3. The Chairman of, and the Clerk to the Board of Lee County Commissioners are hereby authorized to execute said Agreement.
4. The Clerk of the Circuit Court is hereby authorized and directed to transmit one (1) certified copy of this Resolution to the Florida Department of Transportation along with the executed Agreements.

DONE AND ADOPTED with a quorum present and voting on this _____ day of _____, 2002.

ATTEST: CHARLIE GREEN
CLERK OF COURTS

BOARD OF COUNTY COMMISSIONERS
OF LEE COUNTY, FLORIDA

By: _____
Deputy Clerk

By: _____
Chairman

APPROVED AS TO FORM:

By: _____
Office of the County Attorney

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY LIGHTING SYSTEM MAINTENANCE AGREEMENT

710-010-52
UTILITIES
10/01
Page 1 of 4

Financial Project ID:	415564-1-52-01	Federal Project ID:	N/A
Work Program Item No. (old):	N/A	County/Section No:	Lee/12010
State Job No. (old):	N/A	District Document No:	1

THIS AGREEMENT, made and entered into this _____ day of _____, year of _____, by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION** hereinafter referred to as the "**FDOT**", and **LEE COUNTY**, hereinafter referred to as the "**MAINTAINING AGENCY**";

WITNESSETH

WHEREAS, there exists or is about to be installed on the state highway system a lighting system more particularly described in Exhibit A attached hereto, and by this reference made a part hereof, hereinafter referred to as the "Roadway Lighting System"; and;

WHEREAS, the **FDOT** and the **MAINTAINING AGENCY** desire to enter into an agreement pursuant to the provisions of Rule Chapter 14-46 of the Florida Administrative Code providing for the maintenance of the Roadway Lighting System;

NOW, THEREFORE, in consideration of the premises and the mutual covenants contained herein, the **FDOT** and the **MAINTAINING AGENCY** hereby agree as follows:

1. Maintenance of the Roadway Lighting System

- a. The **MAINTAINING AGENCY** shall, at its sole cost and expense, maintain the roadway Lighting System throughout its expected useful life.
- b. In maintaining the Roadway Lighting System, the **MAINTAINING AGENCY** shall perform all activities necessary to keep the Roadway Lighting System fully and properly functioning at all times for its normal expected useful life 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, routine inspection and testing, preventative maintenance, emergency maintenance, replacement of any component parts of the Roadway Lighting System (including the poles and any and all other component parts installed as part of the Roadway Lighting System), and the locating of facilities as may be necessary.
- c. All maintenance shall be in accordance with the provisions of the following:
 - (1) Roadway and Roadside Maintenance Procedure, Topic No. 850-000-015;
 - (2) Manual of Uniform Traffic Control Devices and Safe Procedures for Streets and Highway Construction; and
 - (3) All other applicable local, state or Federal laws, rules resolution, or ordinances and FDOT procedures.

2. Operating Costs

In addition to the costs of maintaining the Roadway Lighting System, the **MAINTAINING AGENCY** shall be responsible for all costs of operating the Roadway Lighting System, including, but not limited to, all costs of electrical power consumed by the Roadway Lighting System and all other electrical charges.

3. Record Keeping

The **MAINTAINING AGENCY** shall keep records of all activities performed and costs expended pursuant to this Agreement. The records shall be kept in such format as is approved by the **FDOT**. All such records shall be deemed to be public records subject to the provisions of Chapter 119, Florida Statutes.

4. Default

In the event that the **MAINTAINING AGENCY** breaches any provision of this Agreement, then in addition to any other remedies which are otherwise provided for in this Agreement, the **FDOT** may exercise one or more of the following options, provided that at no time shall the **FDOT** be entitled to receive double recovery of damages:

- a. Pursue a claim for damages suffered by the **FDOT** or the public.
- b. Suspend the issuance of further permits to the **MAINTAINING AGENCY** for the placement of Facilities on **FDOT** property if the breach is material and has not been cured within 60 days from written notice thereof from **FDOT** until such time as the breach is cured.
- c. Pursue any other remedies legally available.
- d. Perform any work with its own forces or through contractors and seek repayment for the cost thereof from the **MAINTAINING AGENCY**.
- e. Require the **MAINTAINING AGENCY** to remove the Roadway Lighting System at the **MAINTAINING AGENCY's** sole cost and expense.

5. Indemnification

FOR GOVERNMENT MAINTAINING AGENCY:

To the extent provided by law, the **MAINTAINING AGENCY** shall indemnify, defend, and hold harmless the **FDOT** and all of its officers, agents, and employees from any claim, loss, damage, cost, charge, or expense arising out of any acts, action, error, neglect, or omission by the **MAINTAINING AGENCY**, its agents, employees, or contractors during the performance of the Agreement, whether direct or indirect, and whether to any person or property to which **FDOT** or said parties may be subject, except that neither the **MAINTAINING AGENCY**, its agents, employees, or contractors will be liable under this section for damages arising out of the injury or damage to persons or property directly caused by or resulting from the negligence of the **FDOT** or any of its officers, agents, or employees during the performance of this Agreement.

When the **FDOT** receives a notice of claim for damages that may have been caused by the **MAINTAINING AGENCY** in the performance of services required under this Agreement, the **FDOT** will immediately forward the claim to the **MAINTAINING AGENCY**. The **MAINTAINING AGENCY** and the **FDOT** will evaluate the claim and report their findings to each other within fourteen (14) working days and will jointly discuss options in defending the claim. After reviewing the claim, the **FDOT** will determine whether to require the participation of the **MAINTAINING AGENCY** in the defense of the claim or to require the **MAINTAINING AGENCY** to defend the **FDOT** in such claim as described in this section. The **FDOT's** failure to notify the **MAINTAINING AGENCY** of a claim shall not release the **MAINTAINING AGENCY** from any of the requirements of this section. The **FDOT** and the **MAINTAINING AGENCY** will pay their own costs for the evaluation, settlement negotiations, and trial, if any. However, if only one party participates in the defense of the claim at trial, that party is responsible for all costs.

FOR NON-GOVERNMENT MAINTAINING AGENCY:

The **MAINTAINING AGENCY** shall indemnify, defend, and hold harmless the **FDOT** and all of its officers, agents, and employees from any claim, loss, damage, cost, charge, or expense arising out of any acts, action, error, neglect, or omission by the **MAINTAINING AGENCY**, its agents, employees, or contractors during the performance of the Agreement, whether direct or indirect, and whether to any person or property to which **FDOT** or said parties may be subject, except that neither the **MAINTAINING AGENCY**, its agents, employees, or contractors will be liable under this section for damages arising out of the injury or damage to persons or property directly caused by or resulting from the negligence of the **FDOT** or any of its officers, agents, or employees during the performance of this Agreement.

The **MAINTAINING AGENCY's** obligation to indemnify, defend, and pay for the defense or at the **FDOT's** option, to participate and associate with the **FDOT** in the defense and trial of any damage claim or suit and any related settlement negotiations, shall arise within fourteen (14) days of receipt by the **MAINTAINING AGENCY** of the **FDOT's** notice of claim for indemnification to the **MAINTAINING AGENCY**. The notice of claim for indemnification shall be served by certified mail. The **MAINTAINING AGENCY's** obligation to defend and indemnify within fourteen (14) days of such notice shall not be excused because of the **MAINTAINING AGENCY's** inability to evaluate liability or because the **MAINTAINING AGENCY** evaluates liability and determines the **MAINTAINING AGENCY** is not liable or determines the **FDOT** is solely negligent. Only a final adjudication or judgment finding the **FDOT** solely negligent shall excuse performance of this provision by the **MAINTAINING AGENCY**. The **MAINTAINING AGENCY** shall pay all costs and fees related to this obligation and its enforcement by the **FDOT**. The **FDOT's** delay in notifying the **MAINTAINING AGENCY** of a claim shall not release the **MAINTAINING AGENCY** of the above duty to defend.

6. **Force Majeure**

Neither the **MAINTAINING AGENCY** nor the **FDOT** shall be liable to the other for any failure to perform under this Agreement to the extent such performance is prevented by an act of God, war, riots, natural catastrophe, or other event beyond the control of the non-performing party and which could not have been avoided or overcome by the exercise of due diligence; provided that the party claiming the excuse from performance has (a) promptly notified the other party of the occurrence and its estimate duration, (b) promptly remedied or mitigated the effect of the occurrence to the extent possible, and (c) resumed performance as soon as possible.

7. **Miscellaneous**

- a. This Agreement constitutes the complete and final expression of the parties with respect to the subject matter hereof and supersedes all prior agreements, understandings, or negotiations with respect thereto, except that the parties understand and agree that the **FDOT** has manuals and written policies and procedures which shall be applicable at the time of the Project and the relocation of the Facilities and except that the **MAINTAINING AGENCY** and the **FDOT** may have entered into joint agreements for Utility Work to be performed by **FDOT's** highway contractor. To the extent that such a joint agreement exists, this Agreement shall not apply to Facilities covered by the joint agreement. Copies of **FDOT** manuals, policies, and procedures will be provided to the **MAINTAINING AGENCY** upon request.
- b. This Agreement shall be governed by the laws of the State of Florida. Any provision hereof found to be unlawful or unenforceable shall be severable and shall not affect the validity of the remaining provisions hereof.
- c. Time is of the essence in the performance of all obligations under this Agreement.
- d. All notices required pursuant to the terms hereof may be sent by first class United States Mail, facsimile transmission, hand delivery, or express mail and shall be deemed to have been received by the end of five business days from the proper sending thereof unless proof of prior actual receipt is provided. The **MAINTAINING AGENCY** shall have a continuing obligation to notify each District of the **FDOT** of the appropriate persons for notices to be sent pursuant to this Agreement. Unless otherwise notified in writing, notices shall be sent to the following addresses:

If to the **MAINTAINING AGENCY**:

LEE COUNTY DOT - TRAFFIC SIGNALS
5650 ENTERPRISE PARKWAY
FT. MYERS, FLORIDA 33905

If to the **FDOT**:

FDOT - DISTRICT ONE - UTILITY DEPARTMENT
801 NORTH BROADWAY
BARTOW, FLORIDA 33930

- e. **PUBLIC ENTITY CRIME INFORMATION STATEMENT:** A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for **CATEGORY TWO** for a period of 36 months from the date of being placed on the convicted vendor list.
- f. An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity.

8. Certification

This document is a printout of an **FDOT** form maintained in an electronic format and all revisions thereto by the **MAINTAINING AGENCY** in the form of additions, deletions, or substitutions are reflected only in an Appendix entitled "Changes To Form Document" and no change is made in the text of the document itself. Hand notations on affected portions of this document may refer to changes reflected in the above-named Appendix but are for reference purposes only and do not change the terms of the document. By signing this document, the **MAINTAINING AGENCY** hereby represents that no change has been made to the text of this document except through the terms of the Appendix entitled "Changes To Form Document."

You **MUST** signify by selecting or checking which of the following applies:

- No changes have been made to this Forms Document and no Appendix entitled "Changes To Form Document" is attached.
- No changes have been made to this Form Document, but changes are included on the attached Appendix entitled "Changes to Forms Document."

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the day and year first written.

MAINTAINING AGENCY

BY: (Signature) _____ DATE: _____
(Typed Name: _____)

Recommend Approval by the District Utility Office

BY: (Signature) _____ DATE: _____
(Typed Name: W. L . CHILDS JR, DISTRICT UTILITY ADMINISTRATOR)

FDOT Legal Review

BY: (Signature) _____ DATE: _____
District Counsel

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

BY: (Signature) _____ DATE: _____
(Typed Name: _____)
(Typed Title: _____)

FEDERAL HIGHWAY ADMINISTRATION (if applicable)

BY: (Signature) _____ DATE: _____
(Typed Name: _____)

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 415564-1-52-01
(FEDERAL FUNDS)
LEE COUNTY (12010)
STATE ROAD NO. 45 (US 41)
LIGHTING PLANS

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	REFERENCE TIES
4	LIGHTING GENERAL NOTES
5 TO 6	LIGHTING LEGEND AND POLE DATA
7 TO 16	LIGHTING PLAN
17	SERVICE POINT DETAILS
18	TRAFFIC CONTROL PLAN
19 TO 28	UTILITY ADJUSTMENT
29	LIGHT POLE SPREAD FOOTING

END PROJECT
END LIGHTING
STA. 462+54.00

BEGIN PROJECT
BEGIN LIGHTING
STA. 462+56.00

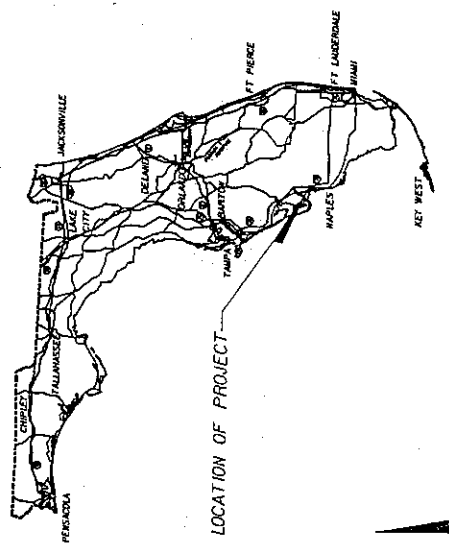
APPLICABLE 2004 INTERIM STANDARDS:
INDEX NO. SHEET NO. INDEX DATE

For Interim Standards click on "Design Standards" at the following web site: <http://www.doi.state.fl.us/roads/>

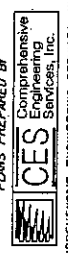
GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED JANUARY 2004,
AND BRIDGE DESIGN SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION, 2004,
AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS

NO.	DATE	DESCRIPTION



LIGHTING SHOP DRAWINGS
TO BE SUBMITTED TO:
MATTHEW C. TILKE, P.E.
COMPREHENSIVE ENGINEERING SERVICES, INC.
201 SOUTH ORANGE AVENUE, SUITE 1300
ORLANDO, FLORIDA 32801

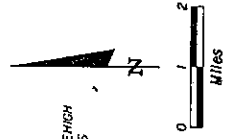


PLANS PREPARED BY
COMPREHENSIVE ENGINEERING SERVICES, INC.
201 SOUTH ORANGE AVENUE, SUITE 1300
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NO. 7862
14071423-8500
WWW.CES-CIVIL.COM
VENDOR NO. 59-3472222
CONTRACT NO. C-7504

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

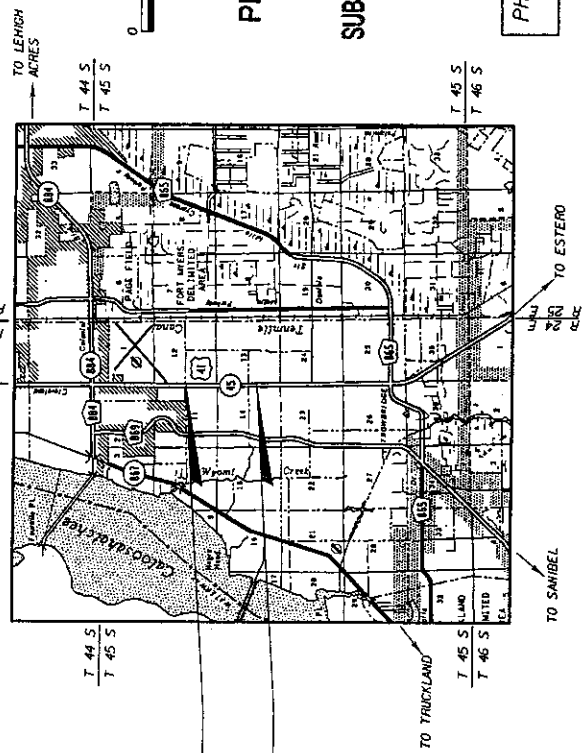
LIGHTING PLANS
ENGINEER OF RECORD: Matthew C. Tilke, P.E.
DATE: _____
P.E. NO.: 50280

FISCAL YEAR	05
SHEET NO.	1



PRELIMINARY
MAY 17 2004
SUBJECT TO CHANGE

PHASE II SUBMITTAL
APRIL 2004



PROJECT LENGTH IS BASED ON 8 SURVEY

LENGTH OF PROJECT	
ROADWAY	LINEAR FEET
BRIDGES	MILES
NET LENGTH OF PROJECT	5978
EXCEPTIONS	1.132
GROSS LENGTH OF PROJECT	5978
	1.132

FDOT PROJECT MANAGER: BRENT WIGGINS

KEY SHEET REVISIONS	
DATE	DESCRIPTION

TO BE PROVIDED AT
 PHASE III (90%) SUBMITTAL

REVISIONS		
DATE	BY	DESCRIPTION

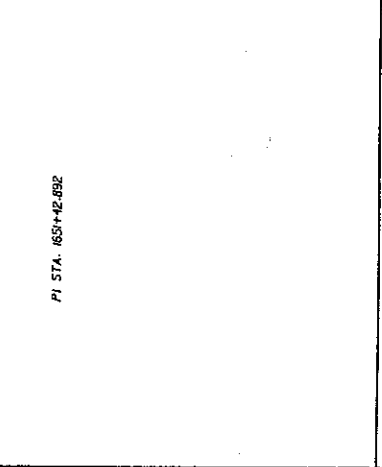
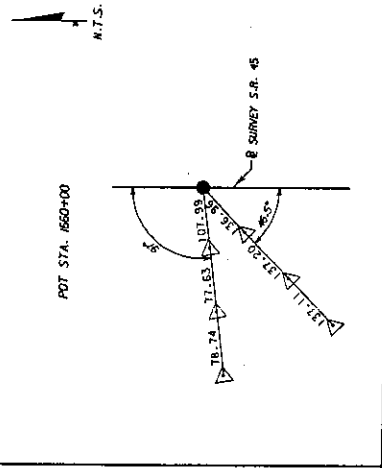
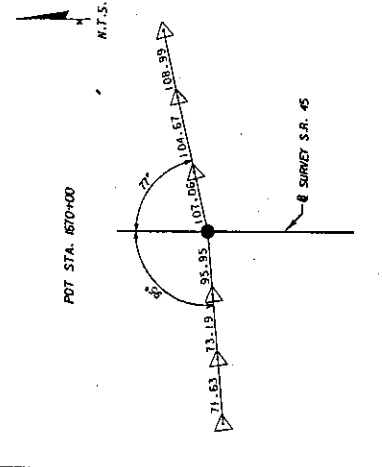
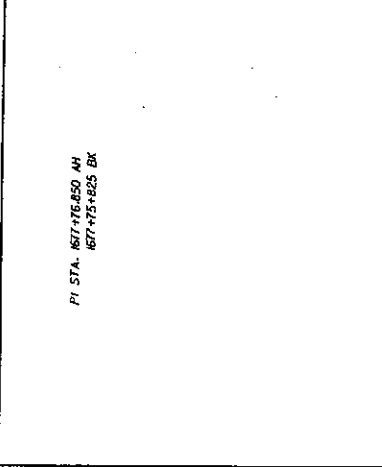
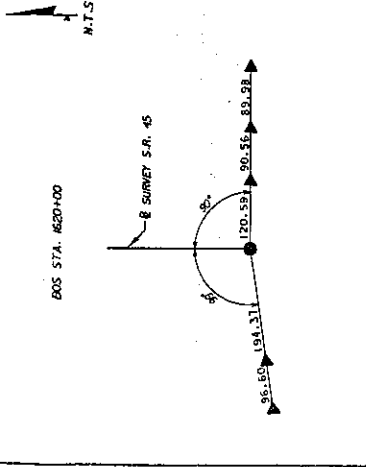
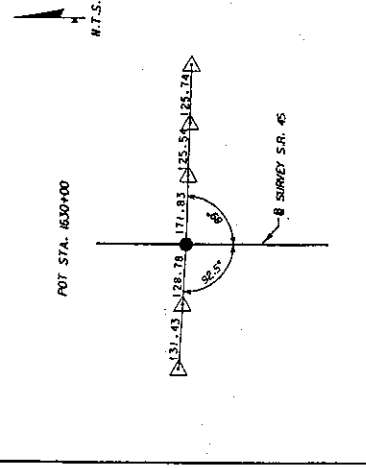
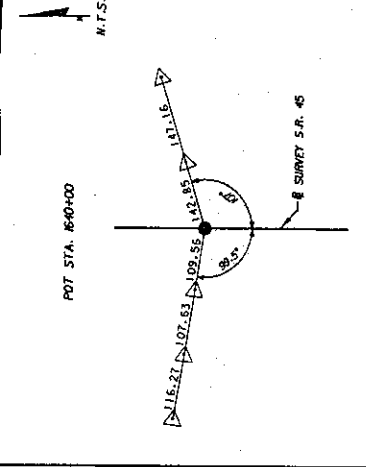
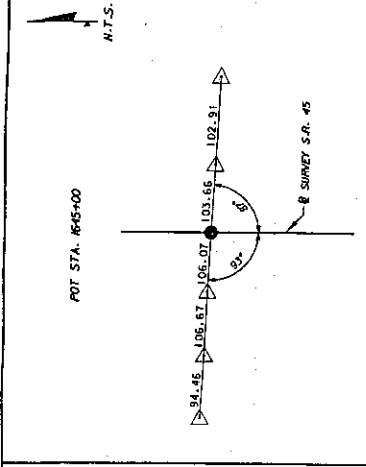
ICES
 Comprehensive
 Engineering
 & Surveying, Inc.
 Ave. Suite 1300 Orlando, FL 32801-3442
 US # Registration Number: 71862
 Fla. P.E. # License No. 82280

STATES OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. 45 COUNTY LEE
 FINANCIAL PROJECT ID 415564-1-52-01

SUMMARY OF PAY ITEMS

4/17/2024 12:58:17 PM T:\PROJECTS\0000001\55564\415564\01\01\ICES\SPED.ZIP

SHEET NO. 2



LEGEND

- ▷ SET P.K. AND DISK, L.B. #6429
- P.K. AND DISK, L.B. #6429 R/W CONTROL
- ▲ FOUND P.K. AND DISK, L.B. #6429

LEGEND

- ▷ SET P.K. AND DISK, L.B. #6429
- P.K. AND DISK, L.B. #6429 R/W CONTROL
- ▲ FOUND P.K. AND DISK, L.B. #6429

LEGEND

- ▷ SET P.K. AND DISK, L.B. #6429
- P.K. AND DISK, L.B. #6429 R/W CONTROL
- ▲ FOUND P.K. AND DISK, L.B. #6429

LEGEND

- ▷ SET P.K. AND DISK, L.B. #6429
- P.K. AND DISK, L.B. #6429 R/W CONTROL
- ▲ FOUND P.K. AND DISK, L.B. #6429

REVISIONS		DESCRIPTION	DATE	BY
DATE	BY			

CES Comprehensive Surveying, Inc.	
201 S Orange Ave. Suite 1500 Orlando, FL 32801-3442	
Certificate of Authorization Number: 7882 Matthew C. Tink, P.E., License No. 60060	
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	FINANCIAL PROJECT ID
ROAD NO. 45	GRANT LEE 415564-1-52-01

REFERENCE TIES	SHEET NO. 3
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GENERAL NOTES:

1. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:
 - a) LUMINAIRE PHOTOGRAPHS INCLUDING ELECTRONIC IES PHOTOMETRIC FILES
 - b) LUMINAIRE PHOTOMETRIC DATA
 - c) POLE FRAMING/BRACKET TEST
 - d) BOLT SPECIFICATIONS AND BOLT CIRCLE DIAMETER
 - e) POLE SHOP DRAWINGS
 - f) LOAD CENTER ELECTRICAL EQUIPMENT
2. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNERS AND ARE SHOWN AS NOTICES TO THE CONTRACTOR TO VERIFY THE EXISTENCE OF UTILITIES. CONTRACTOR SHALL STAKE ALL POLE LOCATIONS, NOTIFY UTILITY OWNERS, AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.
3. THE CONTRACTOR SHALL NOTIFY THE SUNSHINE STATE ONE CALL AT 1-800-432-4770 AND/OR THE APPROPRIATE UTILITY OWNERS AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE OF POLE CONSTRUCTION OPERATIONS WHERE CONFLICT WITH UNDERGROUND UTILITIES OR OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED.
4. THE LOCATION OF THE CONDUCTORS, CONDUITS, JUNCTION BOXES, AND SERVICE POLES ARE DETERMINED BY THE CONTRACTOR AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
5. ALUMINUM POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH A.S.T.M. STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS. ALL MATERIALS SHALL HAVE BEEN TESTED BY FINA-APPROVED METHODS. CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
6. SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOTCANDLE LEVELS TO BE OBTAINED USING THE SUBMITTED LUMINAIRES ON THIS PROJECT. AT FINAL INSPECTION THE CONTRACTOR SHALL REPORT THE HORIZONTAL FOOTCANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER.
7. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND THE FLORIDA DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
8. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER SECONDARY ENTRANCES.
9. IN ACCORDANCE WITH THE N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMP/COID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
10. NO FOOT POLES SHALL BE INSTALLED WITHIN 10' OF FPL ENERGIZED OVERHEAD LINES.
11. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND HEAT MANUFACTURER'S REQUIREMENTS. USE PULLING CORD PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED.
12. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE "X" 6" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS AND SCREWS. NUMBERS SHALL BE AS SHOWN ON THE IDENTIFICATION TAG DETAIL. TAG SHALL BE PLACED FIVE (5) FEET ABOVE GRADE. IN ADDITION, CONTACT RICHARD EPPS, LEE COUNTY DOT AT (239) 884-7800 FOR ADDITIONAL POLE TAG REQUIREMENTS.
13. REFER TO POLE DATA TABLE REGARDING POLE SEQUENCING NAME AND NUMBER.
14. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO LIGHTING POLE FOUNDATIONS AND/OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST FOUR (4) FEET OF THE HOLE FOR THE POLE FOUNDATION AND/OR THE CONDUIT RUNS.
15. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES BACKFILLED IN THE SAME DAY/NIGHT OPERATION.
16. JACK AND BORE OPERATIONS, IF USED, SHALL MEET THE REQUIREMENTS OF FDOT'S UTILITY ACCOMMODATION GUIDE (LATEST EDITION).
17. EXISTING LIGHTING EQUIPMENT POWER SOURCES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING DEMOLITION/REMOVAL WORK.

18. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. CONDUIT MUST BE PLACED WITHIN THE RIGHT-OF-WAY BUT CAN BE ADJUSTED TO FIT AROUND THE EXISTING AND PROPOSED UTILITIES. WHERE PLANNED LOCATION OF LIGHTING POLES IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE PLANNED LOCATION OF LIGHTING POSITION SHALL BE ALTERED TO AVOID THE CONFLICT. THE LAMING CONDUIT SHALL BE MAINTAINED AT A MINIMUM 2" CLEARANCE FROM THE SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MIN. OF 4" OF CONCRETE.
19. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS BUILT" PLANS OF FINAL SERVICE POINT, LOAD CENTER, CONDUIT, CONDUCTOR, POLE AND PULL BOX LOCATIONS. PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.
20. ALL SPICES SHALL BE MADE IN PULL BOXES ONLY WITH COMPRESSION SLEEVES OR SPLIT BOLT CONNECTIONS, PROPERLY SLEEVED AND WATERPROOFED.
21. SPLICED AND CONNECTIONS MADE IN PULL BOXES SHALL BE LIMITED TO THE SERVICE POINT(S) AND CONDUIT JUNCTIONS WITH MULTI-DIRECTIONAL CONDUITS AS INDICATED ON PLANS. THE CONNECTIONS MADE AT THESE POINTS SHOULD BE PROPERLY TAPED AND HEAT SHRINK TUBES OR CAPS SHALL BE USED TO WATERPROOF THESE CONNECTIONS.
22. INSPECT ALIGNMENT OF EACH INDIVIDUAL POLE AND FITURE AS FOLLOWS:
 - POLE ALIGNMENT: WITHIN ONE HALF DEGREE ON VERTICAL $\pm 1/2$, CONFIRM VERTICAL ALIGNMENT, VIEWING FROM ADJACENT SERIES OF POLES, IN BOTH DIRECTIONS.
 - ENTIRE ALIGNMENT: WITHIN ONE DEGREE ON HORIZONTAL $\pm 1/2$ UNLESS TILT IS SPECIFIED OTHERWISE IN THE PLANS, USING CALCULATED LEVEL ALONG BOTH AXES OF CUT-OFF FITURE FACE, WITH LENS ONLY.
23. ALL CONDUITS SHALL BE MANHOLE TESTED AND CLEANED. CONDUITS PLACED FOR FUTURE USE SHALL HAVE 3/4" POLYESTER GRID FILLED IN PLACE AND CAPPED, WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE BOLT WANNER OR PULL BOXES TO MARK ENDS OF EMPTY CONDUITS.
24. MOUNTING HEIGHTS ARE DETERMINED FROM THE BOTTOM OF THE LUMINAIRE VERTICALLY TO PAVEMENT GRADE.
25. THE CONTRACTOR SHALL VERIFY POLE LENGTHS REQUIRED IN ORDER TO ACHIEVE THE PROPER MOUNTING HEIGHT FOR EACH LUMINAIRE. THIS VERIFICATION SHALL OCCUR PRIOR TO THE SUBMISSION OF SHOP DRAWINGS (IF APPLICABLE).
26. EXISTING LIGHTING LEVELS AT NIGHT (AS A MINIMUM) TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION THROUGH THE USE OF EXISTING, PROPOSED, AND/OR TEMPORARY LIGHTING.
27. CONTRACTOR SHALL PROVIDE A LIST OF LUMINAIRES TO BE REMOVED TO LEE COUNTY D.O.T. PRIOR TO REMOVAL. LIST BY CONTRACTOR AND BY POLE TAG NUMBER.
28. ROCK MAY BE ENCOUNTERED WHILE PERFORMING UNDERGROUND INSTALLATIONS AND INSTALLATION OF FOUNDATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCREASED COST OF ALL UNDERGROUND WORK ACTIVITIES WHILE PREPARING HIS BID. ALL COSTS OF ROCK REMOVAL SHALL BE INCLUDED IN THE BID. IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT, NO EXTRA COMPENSATION OR TIME EXTENSION WILL BE ALLOWED FOR ROCK REMOVAL WORK DIRECTED TO THE CONTRACTOR. ROCK SHALL BE SPITTING, EXCAVATION, CRUSHING, DISPOSAL, OR REPLACEMENT OF DISPLACED VOLUME OF EXTRACTED ROCK WITH FILL MATERIAL OR SPECIAL HANDLING OF ROCK.
29. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN RIGHT-OF-WAY TO THEIR ORIGINAL CONDITION. ANY REQUIRED SOODING SHALL BE WITH 500' OF LIME KIND TO SURROUNDING AREA.
30. THE FOLLOWING ITEMS ARE INCLUDED IN THE WORK TO BE PERFORMED AS PART OF THIS CONTRACT. PAY ITEM NUMBERS ARE PROVIDED ONLY FOR THE PURPOSE OF DESCRIBING THE WORK. REFER TO FOOT BASIS OF ESTIMATES AND PROJECT SPECIFICATIONS PACKAGE FOR ITEM DESCRIPTIONS.

MOBILIZATION	100-1
WORK ZONE SIGNS	102-50
BARREADE (TEMPORARY) (TYPES I, II, VP & DRUM)	102-74-1
ADVANCE WARNING ARROW PANELS	102-75
HIGH INTENSITY FLASHING LIGHTS (TEMPORARY - TYPE B)	102-77
CONDUCTOR (FURNISH & INSTALL) (INSULATED) (NO. 4)	715-1-13
CONDUCTOR (FURNISH & INSTALL) (INSULATED) (NO. 4)	715-1-14
CONDUCTOR (FURNISH & INSTALL) (INSULATED) (NO. 2)	715-1-15
CONDUIT (FURNISH & INSTALL) - UNDERGROUND (PVC)	715-2-40
CONDUIT (FURNISH & INSTALL) (SECONDARY VOLTAGE)	715-7-8
LOAD CENTER (FURNISH & INSTALL) (PVC SCH 40) (2')	715-14-1
PULL BOX (FURNISH & INSTALL) (ALUMINUM, STANDARD) (FURNISH & INSTALL) (45" (105)	715-20-1
LIGHTING POLE COMPLETE (ALUMINUM, STANDARD) (FURNISH & INSTALL) (45" (105)	715-222-404

WORK ITEM NOTES:

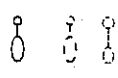
1. ITEMS 715-2-40 AND 715-2-45 INCLUDE CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, PULL CORDS, TRENCHING AND BACKFILL AS INDICATED IN THE PLANS AND DESIGN STANDARDS. THE COST OF RESTORATION OF CUT PAVEMENT (ASPHALT AND/OR CONCRETE), SOUL, ETC., TO ITS ORIGINAL CONDITION IS TO BE INCLUDED IN THE LUMP SUM FEE.
2. ITEM 715-2-45: THE CONTRACTOR SHALL HAVE THE OPTION OF USING THE DIRECTIONAL BORE METHOD.
3. ITEM 715-222-404: AL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATION SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER OR OFF-SITE AREAS PROVIDED BY THE CONTRACTOR.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">DATE</th> <th style="width: 30%;">DESCRIPTION</th> <th style="width: 20%;">BY</th> <th style="width: 20%;">DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	DESCRIPTION	BY	DATE					<div style="text-align: center;"> <p>ICES Comprehensive Solutions, Inc. 201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442 Certificate of Authorization Number: 7882 Matthew C. Tisa, P.E., License No. 60260</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 20%;">ROAD NO.</td> <td style="width: 20%;">CITY</td> <td style="width: 20%;">FINANCIAL PROJECT ID</td> <td style="width: 40%;"></td> </tr> <tr> <td>45</td> <td>LEE</td> <td>415564-1-52-01</td> <td></td> </tr> </table>	ROAD NO.	CITY	FINANCIAL PROJECT ID		45	LEE	415564-1-52-01		<p style="text-align: center;">LIGHTING GENERAL NOTES</p> <p style="text-align: right;">SHEET NO. 4</p>
DATE	DESCRIPTION	BY	DATE															
ROAD NO.	CITY	FINANCIAL PROJECT ID																
45	LEE	415564-1-52-01																

POLE DATA

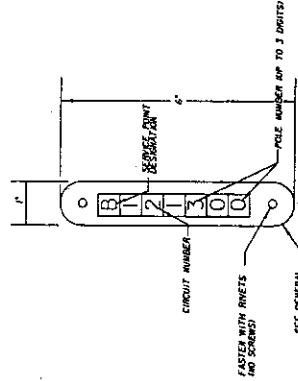
LEGEND

SYMBOLS



DESCRIPTION

- 40W High Pressure Sodium Luminaires. Designed for full cutoff Type III distribution. Integral hooded type ballast to be with 180° cut operation. Single Arm (S) aluminum pole mounting height 45'. Luminaires to be equivalent to GE Fluorometric Curve #002.
- Proposed light pole to be installed by others, FPI-0 409234-I-S2-01
- Existing light pole to remain
- 2" PVC Schedule 40 conduit (with pull strings) underground. Includes conductors as shown in the plans and/or Design Standards. Run 1 No. 6 copper bare conductor (17H Green insulation) inside conduit with other conductors.
- 2" PVC Schedule 40 conduit (with pull strings) jacketed underground for directional bore. Includes conductors as shown in the plans and/or Design Standards. Run 1 No. 6 copper bare conductor (17H Green insulation) inside conduit with other conductors.
- Pull box. For specifications see Section 635 of Standard Specifications For Road And Bridge Construction. Include 20' of ground rod at each pull box location.
- Distribution point. For specifications see Sheet 20 and Index No. 17504 of Design Standards.



POLE IDENTIFICATION TAG DETAIL

N T S

CONVENTIONAL LIGHTING DESIGN CRITERIA

- Average Initial Intensity 1.5 HFC (MIN)
- Uniformity Ratio Avg./Min. 4:1 Or Less
- Wind Speed 100 MPH (Lee County)

PAY ITEM NUMBERS ARE PROVIDED ONLY FOR THE PURPOSE OF DESCRIBING THE WORK TO BE PERFORMED. PAY ITEM DESCRIPTIONS ARE FOUND IN THE DEPARTMENT'S BASIS OF ESTIMATES HANDBOOK AND THE PROJECT SPECIFICATIONS PACKAGE.

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	H.H.	POLE SETBACK AND NOTES	PAY ITEM	FINAL
100		822+16 RI	5	400	45	1/4" FROM EOT	75-822-04	
101		822+17 LI	5	400	45	1/4" FROM EOT	75-822-04	
102		824+36 RI	5	400	45	1/4" FROM EOT	75-822-04	
103		824+37 LI	5	400	45	1/4" FROM EOT	75-822-04	
104		825+47 RI	5	400	45	1/4" FROM EOT	75-822-04	
105		825+47 LI	5	400	45	1/4" FROM EOT	75-822-04	
106		828+41 RI	5	400	45	1/4" FROM EOT	75-822-04	
107		828+41 LI	5	400	45	1/4" FROM EOT	75-822-04	
108		830+62 RI	5	400	45	1/4" FROM EOT	75-822-04	
109		830+62 LI	5	400	45	1/4" FROM EOT	75-822-04	
110		832+82 RI	5	400	45	1/4" FROM EOT	75-822-04	
111		832+82 LI	5	400	45	1/4" FROM EOT	75-822-04	
112		834+82 RI	5	400	45	1/4" FROM EOT	75-822-04	
113		834+82 LI	5	400	45	1/4" FROM EOT	75-822-04	
114		837+02 RI	5	400	45	1/4" FROM EOT	75-822-04	
115		837+02 LI	5	400	45	1/4" FROM EOT	75-822-04	
116		839+26 RI	5	400	45	1/4" FROM EOT	75-822-04	
117		839+27 LI	5	400	45	1/4" FROM EOT	75-822-04	
118		841+56 RI	5	400	45	1/4" FROM EOT	75-822-04	
119		841+56 LI	5	400	45	1/4" FROM EOT	75-822-04	
120		843+40 RI	5	400	45	1/4" FROM EOT	75-822-04	
121		843+40 LI	5	400	45	1/4" FROM EOT	75-822-04	
122		845+29 RI	5	400	45	1/4" FROM EOT	75-822-04	
123		845+29 LI	5	400	45	1/4" FROM EOT	75-822-04	
124		847+02 RI	5	400	45	1/4" FROM EOT	75-822-04	
125		847+02 LI	5	400	45	1/4" FROM EOT	75-822-04	
126		849+02 RI	5	400	45	1/4" FROM EOT	75-822-04	
127		849+51 LI	5	400	45	1/4" FROM EOT	75-822-04	
128		851+48 RI	5	400	45	1/4" FROM EOT	75-822-04	
129		851+48 LI	5	400	45	1/4" FROM EOT	75-822-04	
130		853+49 RI	5	400	45	1/4" FROM EOT	75-822-04	
131		853+49 LI	5	400	45	1/4" FROM EOT	75-822-04	
132		855+91 RI	5	400	45	1/4" FROM EOT	75-822-04	
133		855+91 LI	5	400	45	1/4" FROM EOT	75-822-04	
134		858+44 RI	5	400	45	1/4" FROM EOT	75-822-04	
135		858+44 LI	5	400	45	1/4" FROM EOT	75-822-04	
136		859+68 RI	5	400	45	1/4" FROM EOT	75-822-04	
137		859+68 LI	5	400	45	1/4" FROM EOT	75-822-04	
138		861+02 RI	5	400	45	1/4" FROM EOT	75-822-04	
139		861+02 LI	5	400	45	1/4" FROM EOT	75-822-04	
140		865+20 RI	5	400	45	1/4" FROM EOT	75-822-04	
141		865+20 LI	5	400	45	1/4" FROM EOT	75-822-04	
142		867+60 RI	5	400	45	1/4" FROM EOT	75-822-04	
143		867+60 LI	5	400	45	1/4" FROM EOT	75-822-04	
144		869+90 RI	5	400	45	1/4" FROM EOT	75-822-04	
145		869+90 LI	5	400	45	1/4" FROM EOT	75-822-04	
146		872+35 RI	5	400	45	1/4" FROM EOT	75-822-04	
147		872+35 LI	5	400	45	1/4" FROM EOT	75-822-04	
148		874+78 RI	5	400	45	1/4" FROM EOT	75-822-04	
149		874+78 LI	5	400	45	1/4" FROM EOT	75-822-04	

EOT = EDGE OF TRAVEL LANE

REVISIONS

DATE	DESCRIPTION

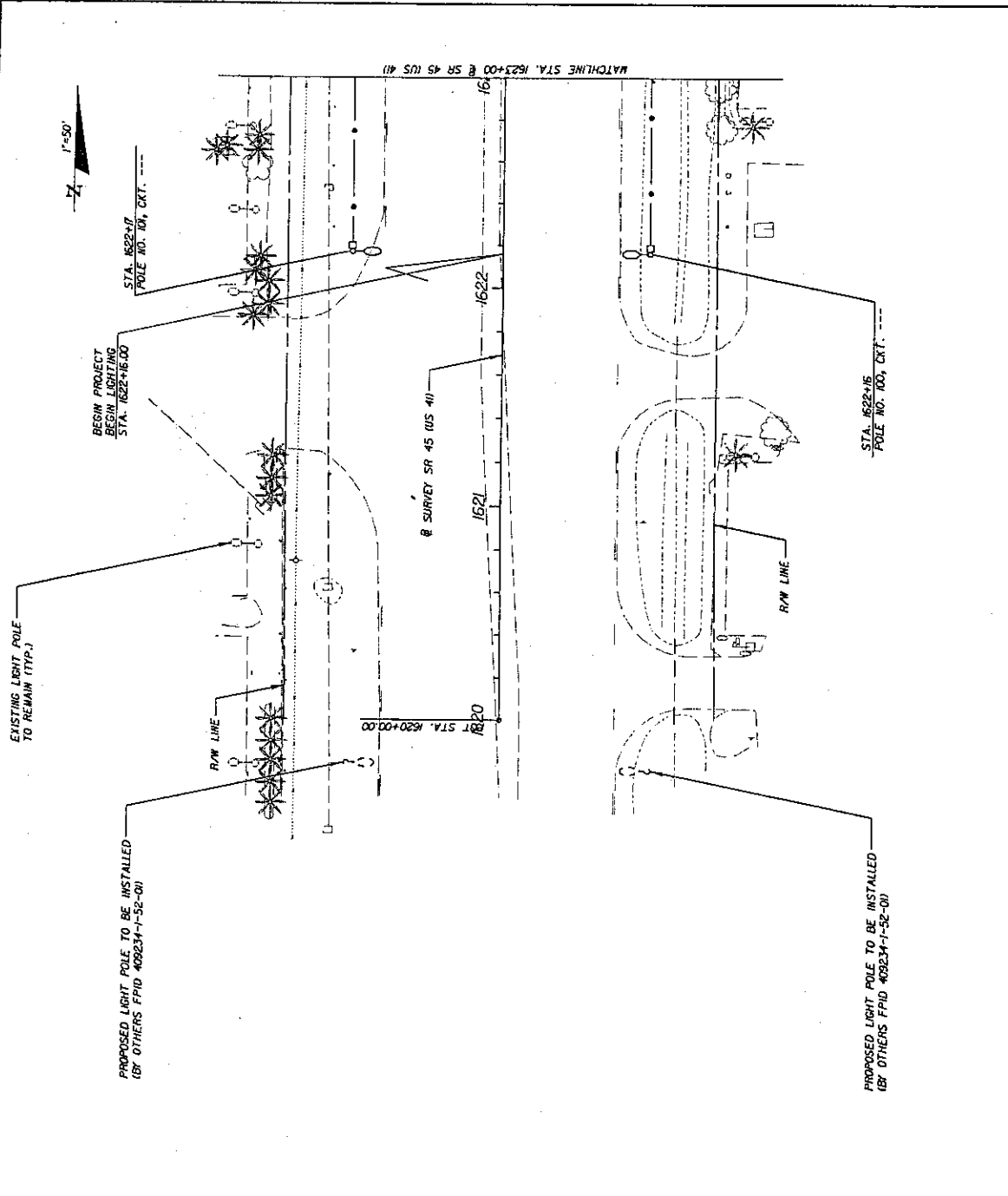
CES Comprehensive Services, Inc.
 201 S Orange Ave, Suite 1300 Orlando, FL 32801-5446
 Certificate of Authorization Number: 7983
 Matthew C. Tinn, P. E., License No. 60228D

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. 45 COUNTY LEE FINANCIAL PROJECT ID 415564-1-52-01

SHEET NO. 5

LIGHTING LEGEND AND POLE DATA

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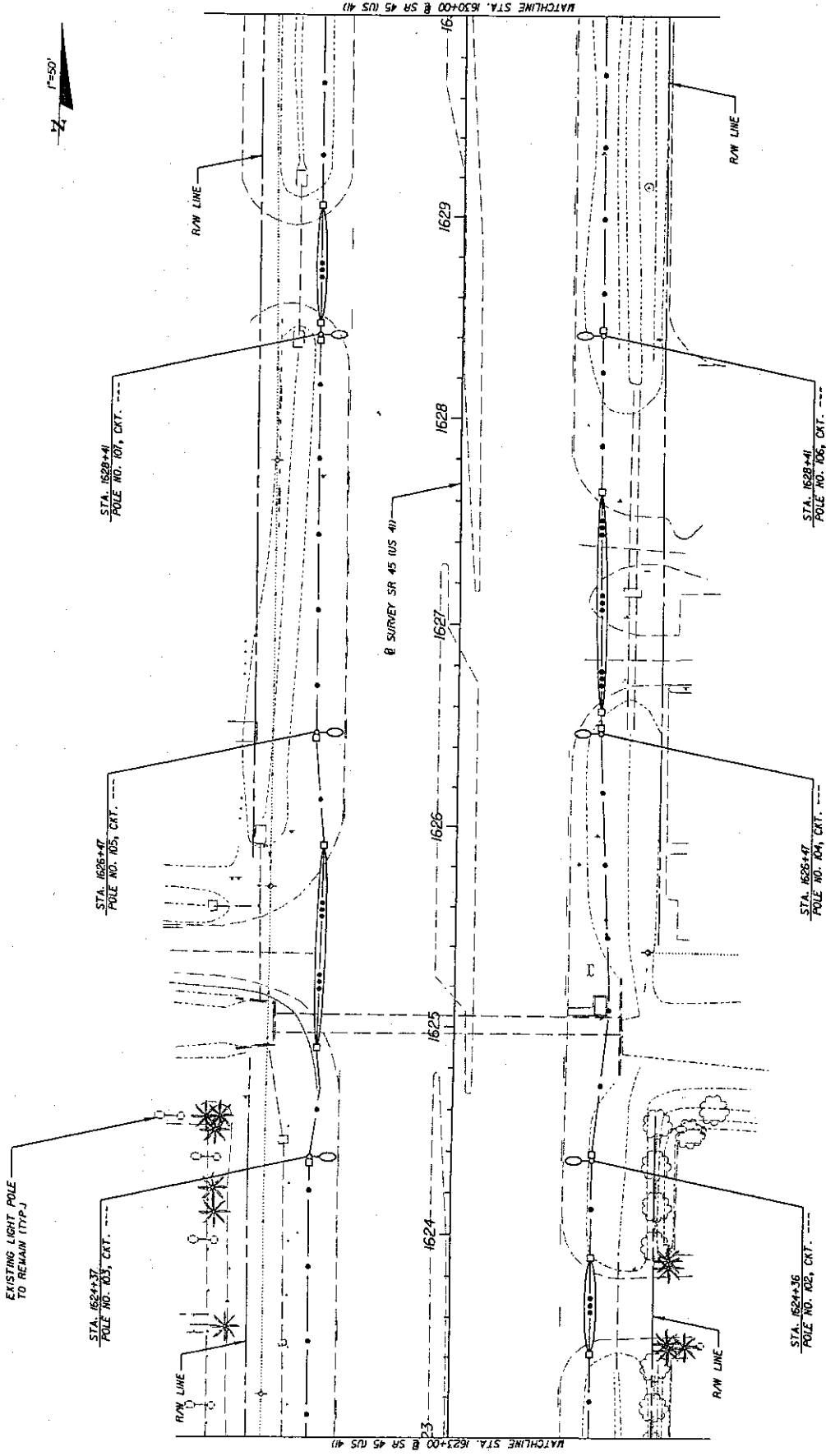


REVISIONS		DESCRIPTION	DATE	BY
DATE	BY			

CES Comprehensive Engineering Services, Inc. 201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442 Certificate of Authorization Number: 7862 Matthew C. Tiller, P.E., License No. 90260		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. 45 COUNTY LEE 4/5564-1-52-01	SHEET NO. 7
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LIGHTING PLAN

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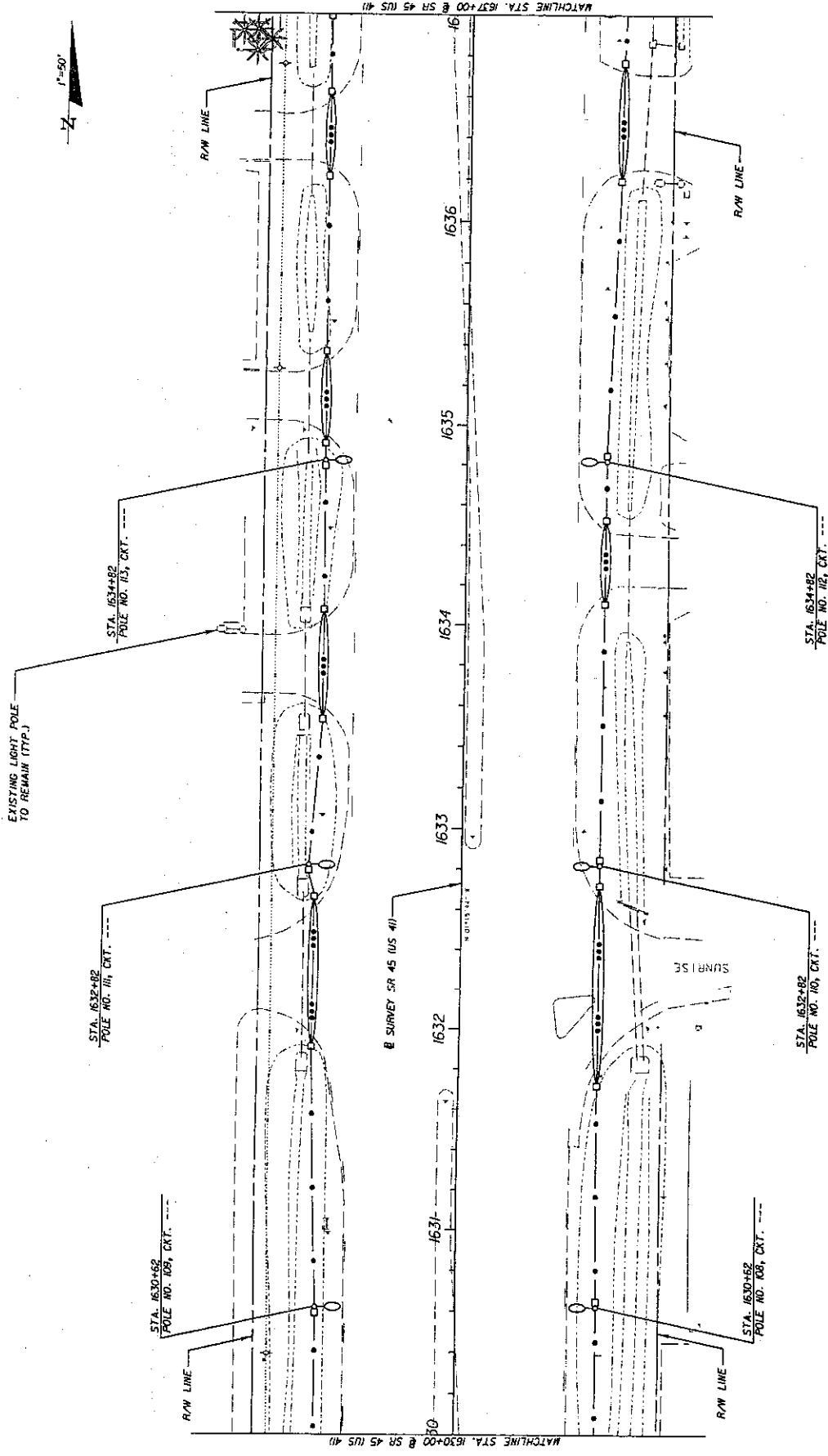
LIGHTING PLAN

STATES OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. 45
COUNTY LEE
FINANCIAL PROJECT ID 415564-1-52-01

CES Comprehensive Engineering Services, Inc.
201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442
Certificate of Authorization Number: 7862
Matthew C. Tins, P.E., License No. 80280

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

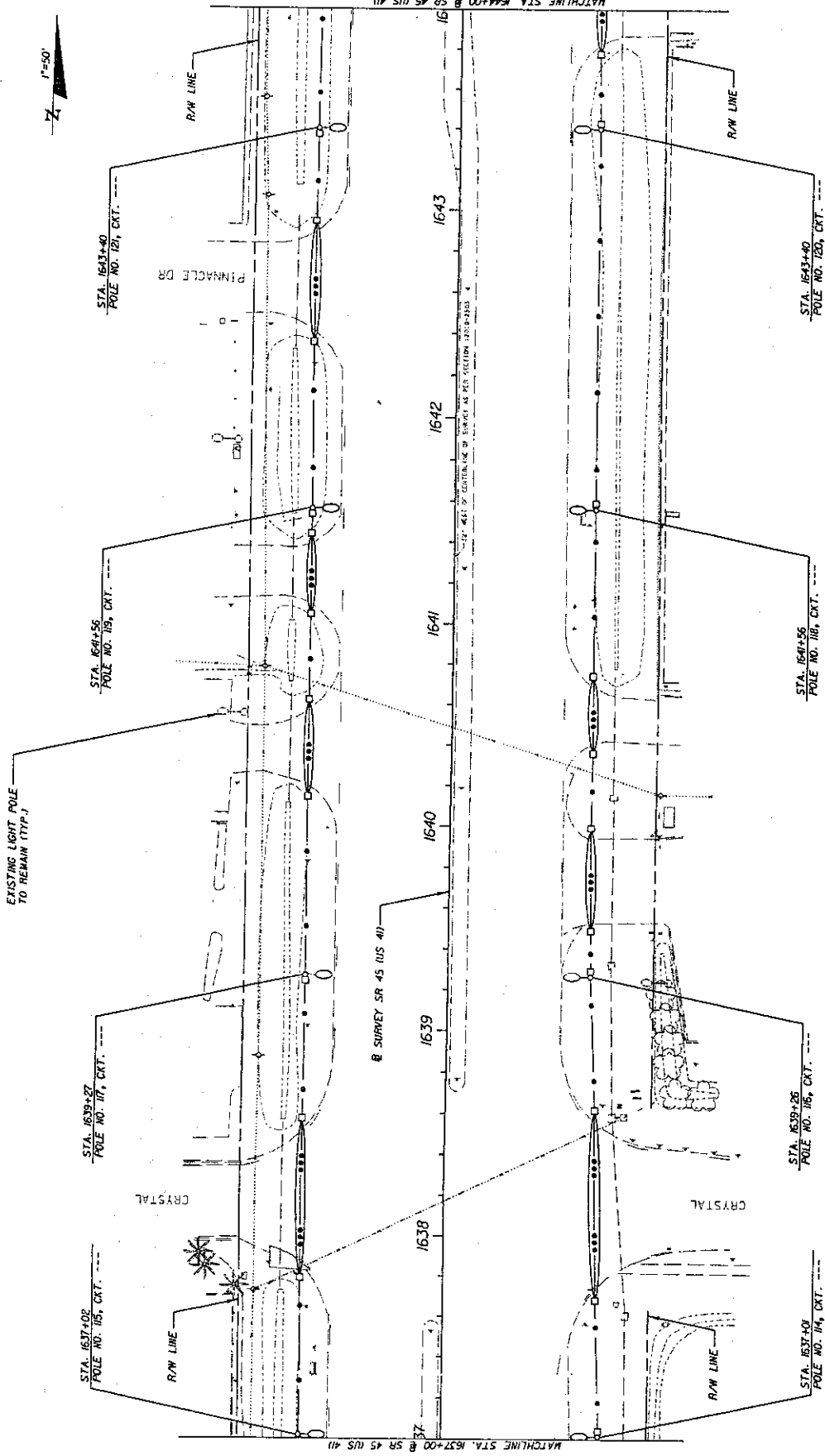
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			COUNTY	LEE	
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CES Comprehensive Engineering Services, Inc.
 201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442
 Certificate of Authorization Number: 7862
 Matthew C. Tinn, P.E., License No. 60090

LIGHTING PLAN



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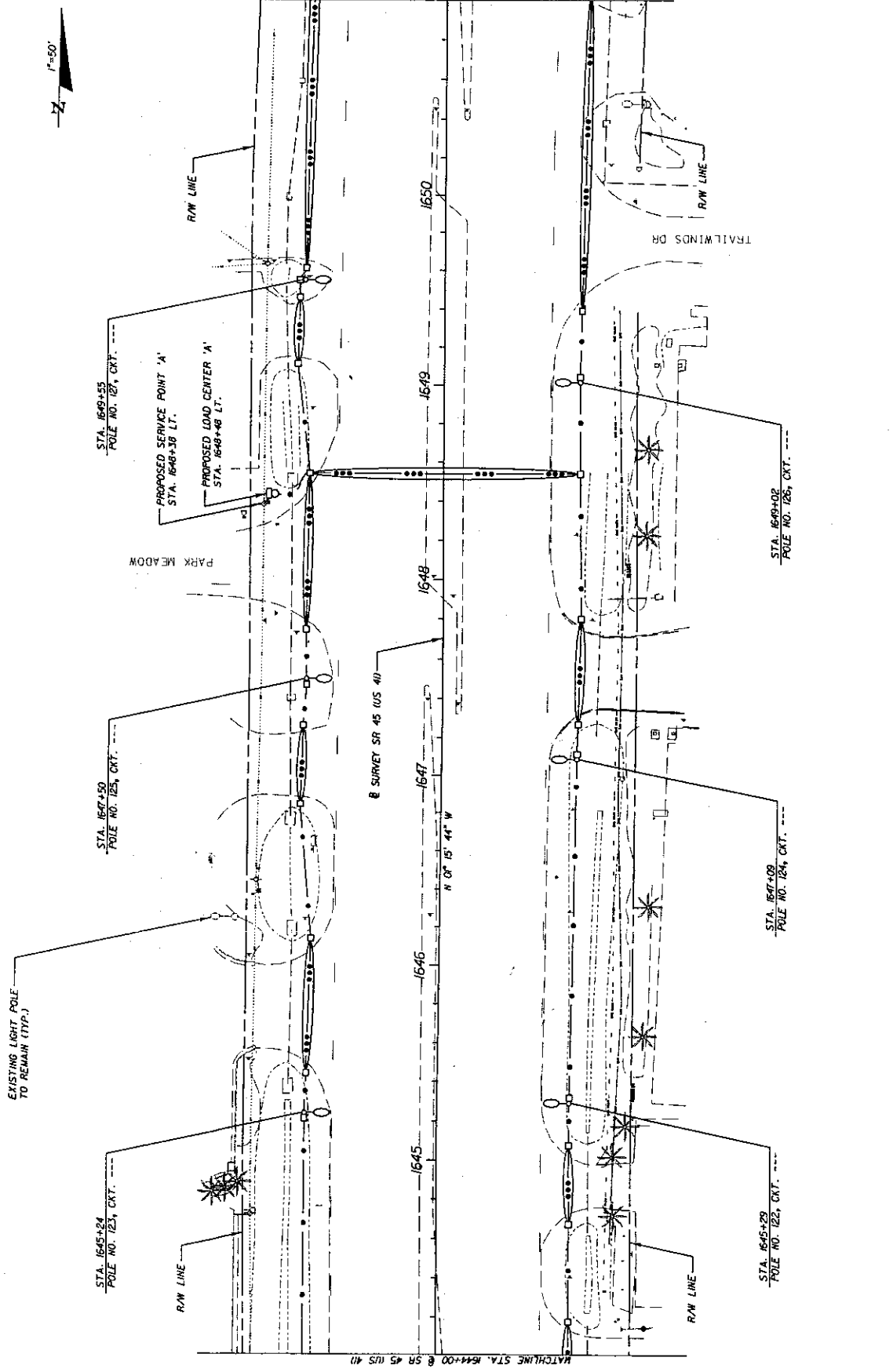
ES Comprehensive Engineering Services, Inc.
 11111 N. Orange Blvd., Suite 1300
 Orlando, FL 32801-3442
 Registration Number: 7882
 P.E. License No. 60280

STATES OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. 45
 COUNTY LEE
 FINANCIAL PROJECT ID 415564-1-52-01

SHEET NO. 10

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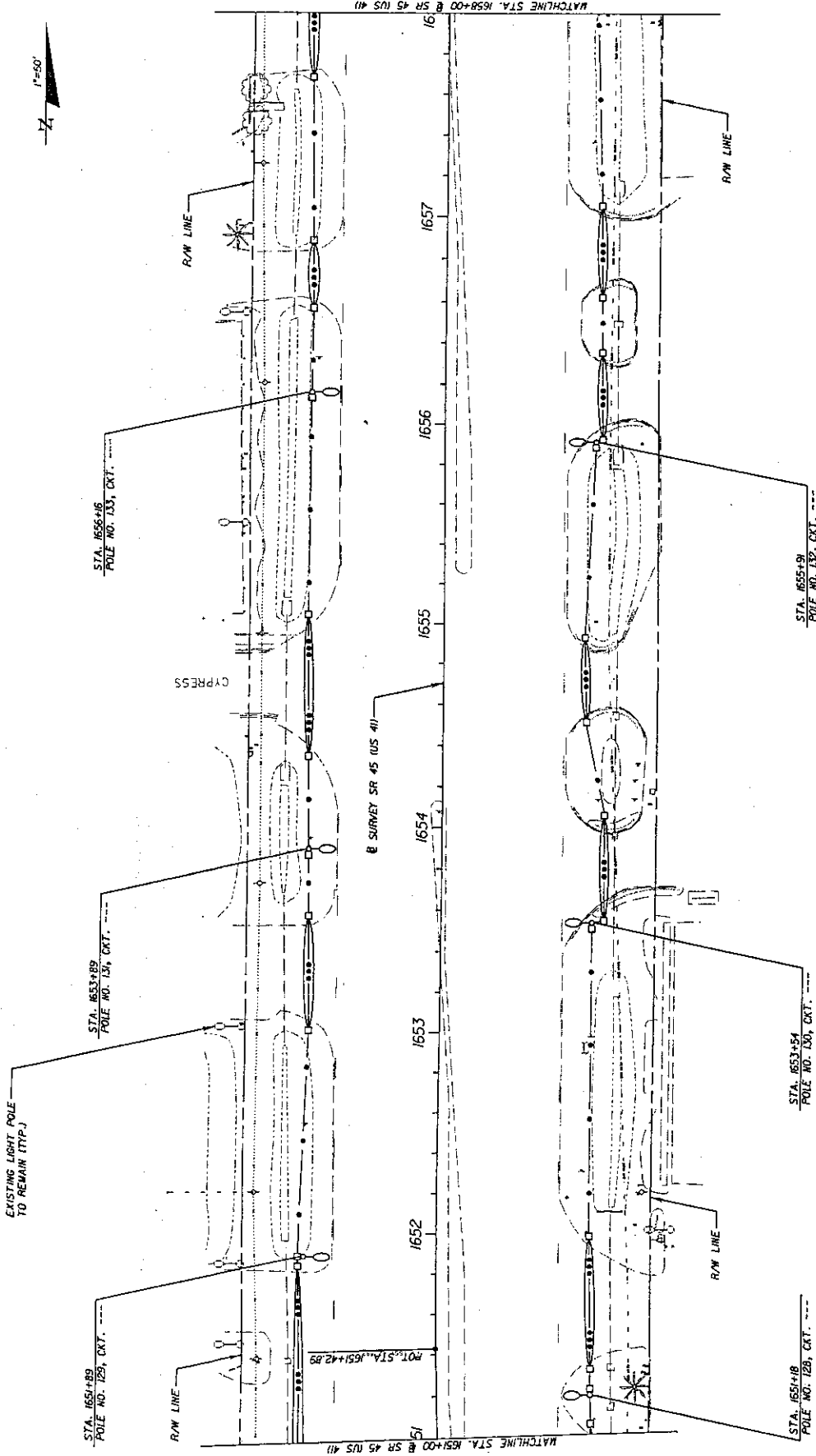
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
ROAD NO.	45
COUNTY	LEE
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ICES Comprehensive Engineering Services, Inc. 201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442 Certificate of Authorization Number: 7882 Matthew C. Tice, P.E., License No. 60280

SHEET NO.	11
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LIGHTING PLAN



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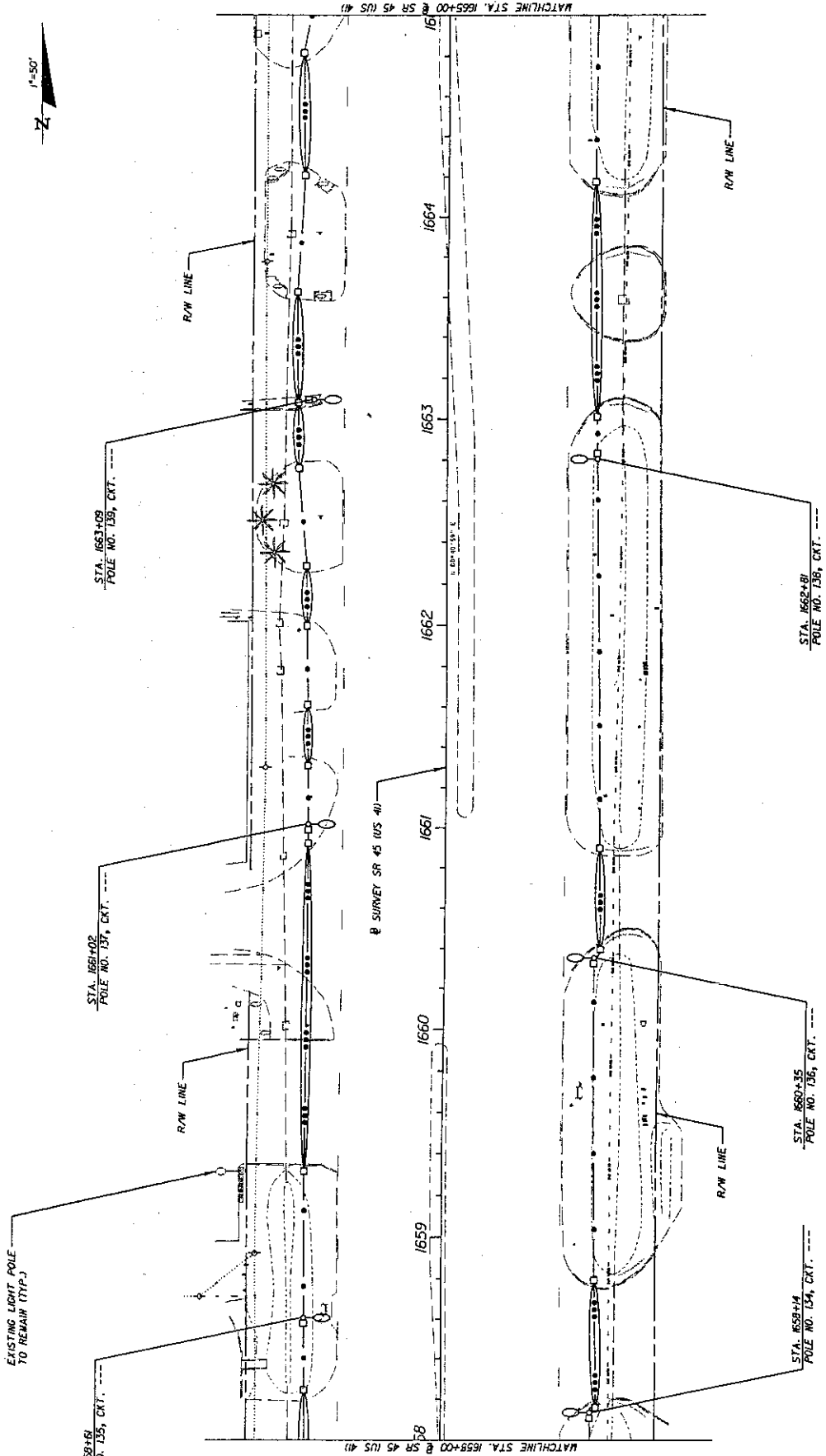
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COUNTY	LEE
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CES Comprehensive Engineering Services, Inc. 201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442 Certificate of Authorization Number: 7862 Matthew C. Tike, P.E., License No. 60280	
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SHEET NO.	12
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LIGHTING PLAN

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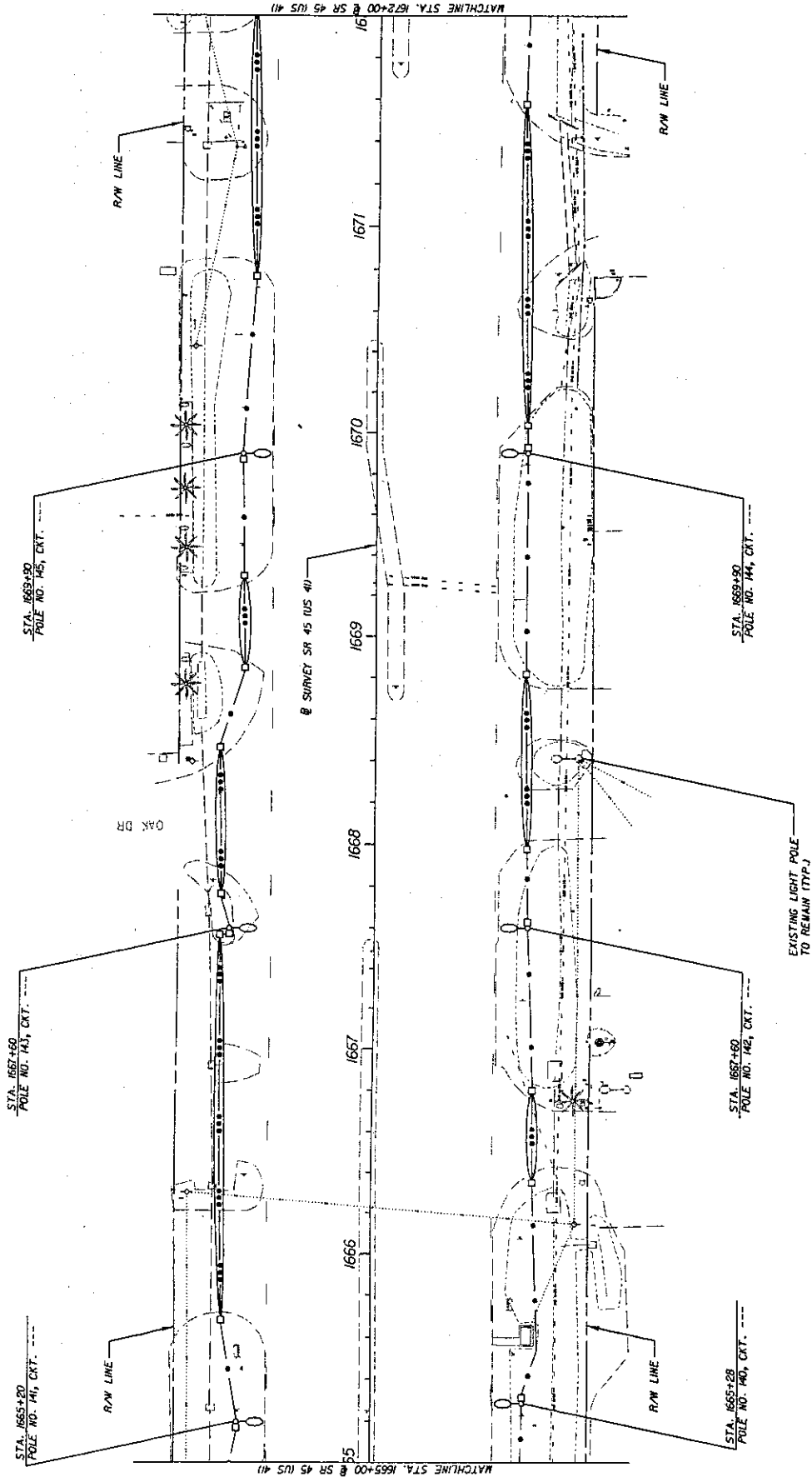


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DATE	BY	DATE	DESCRIPTION

CES Comprehensive Engineering Services, Inc. 201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442 Certificate of Authorization Number: 7862 Matthew C. Ylka, P.E., License No. 60280		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. 45 COUNTY LEE FINANCIAL PROJECT ID 415564-1-52-01	SHEET NO. 13
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DATE	DESCRIPTION

REVISONS

DATE	DESCRIPTION

CES
 Comprehensive
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 Services, Inc.
 201 S Orange Ave, Suite 1300 Orlando, FL 32801-3442
 Certificate of Authorization Number: 7862
 Matthew C. Tice, P.E., License No. 80280

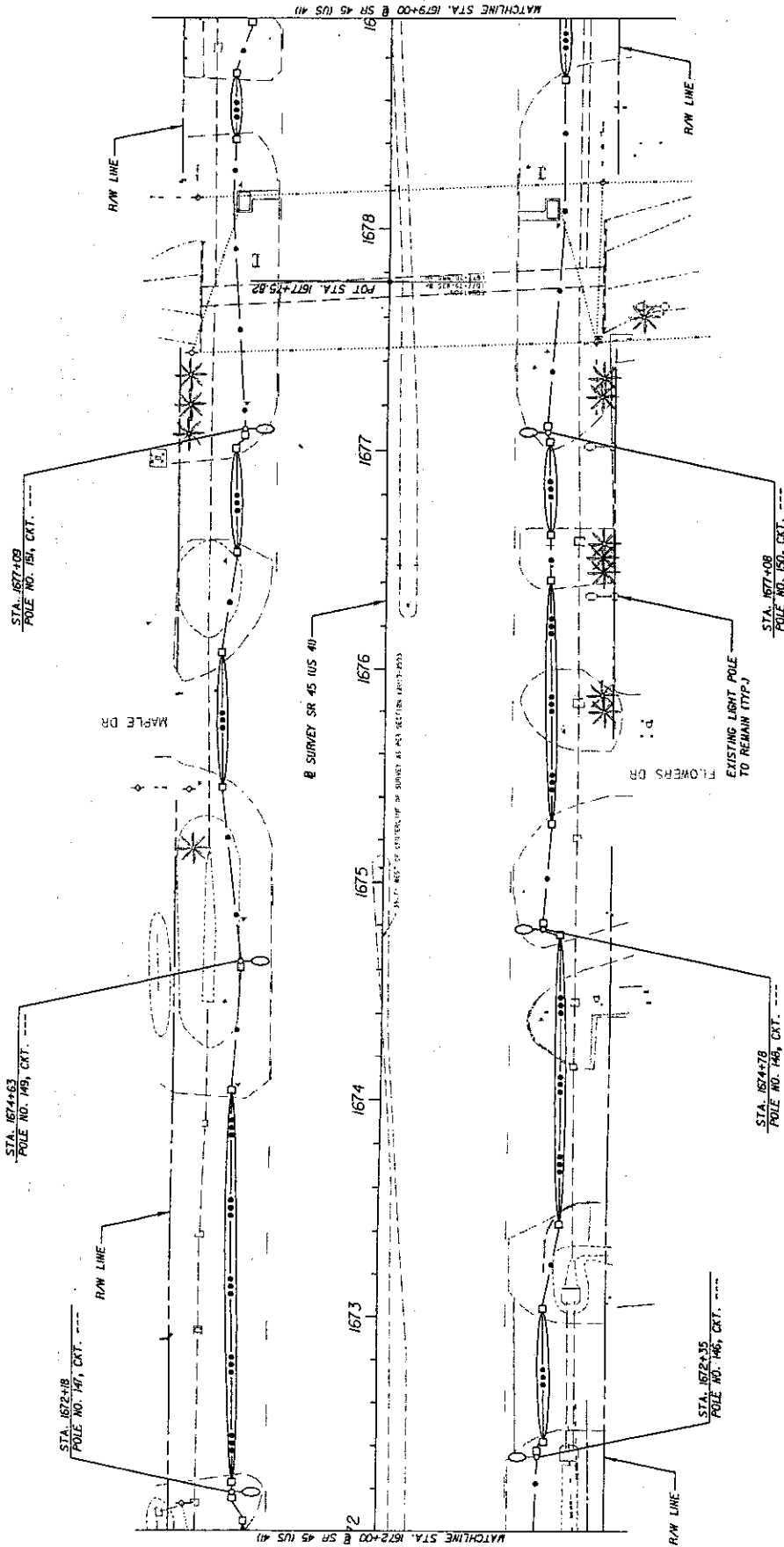
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DEPARTMENT OF TRANSPORTATION
 ROAD NO. 45 COUNTY LEE FINANCIAL PROJECT ID 415564-1-52-01

LIGHTING PLAN

SHEET NO. 14

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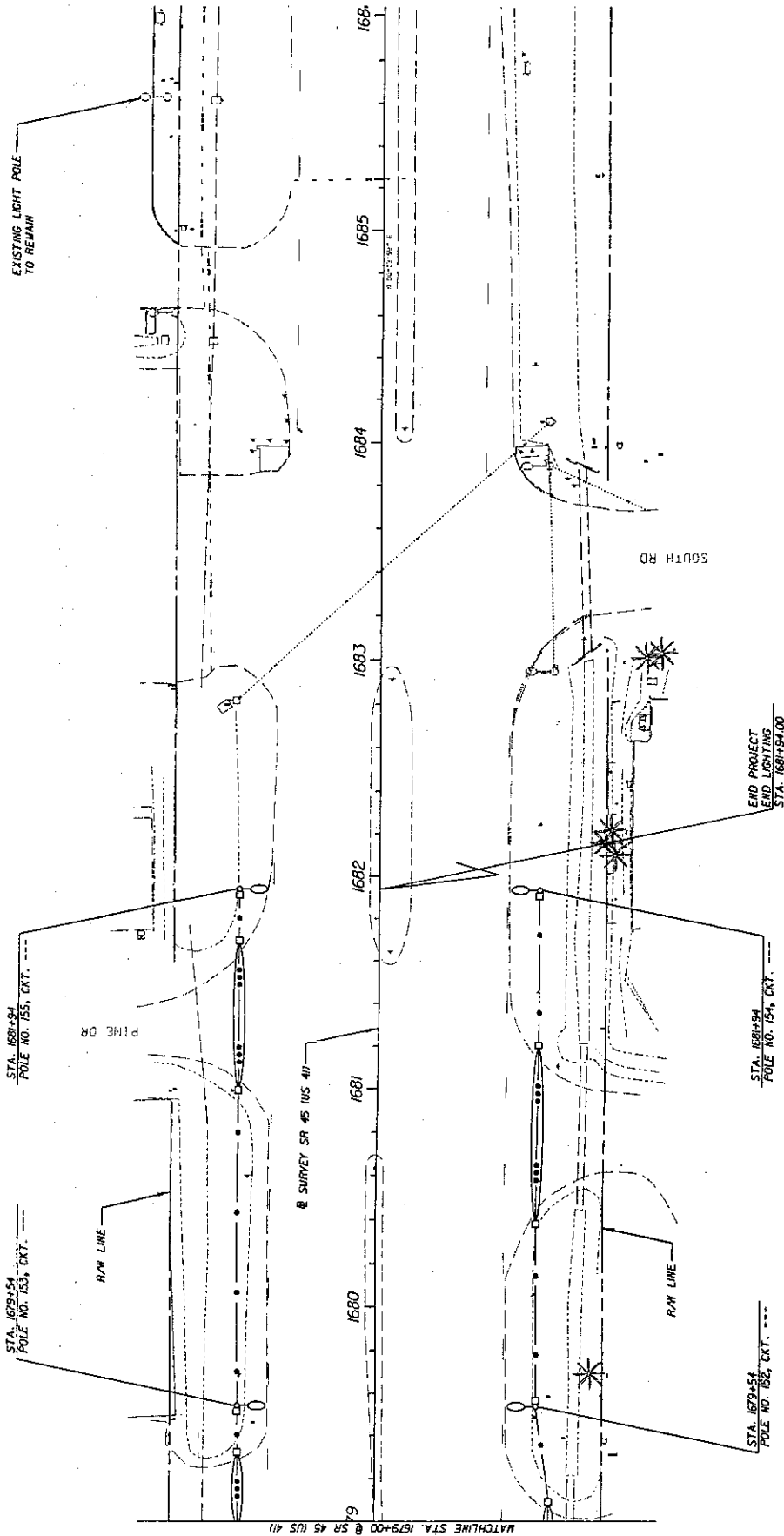
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ROAD NO. 45	COUNTY LEE	FINANCIAL PROJECT ID 415564-1-52-01	

ICES Comprehensive Engineering & Surveying, Inc. 201 S Orange Ave. Suite 1300 Orlando, FL 32801-3442 Certificate of Authorization Number: 7862 Matthew C. Tinn, P.E., License No. 60280	PROJECT NO. 415564-1-52-01
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SHEET NO. 15	TITLE LIGHTING PLAN
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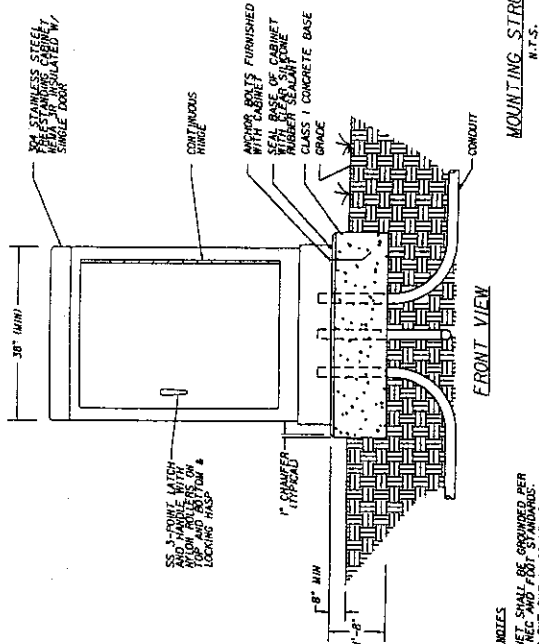
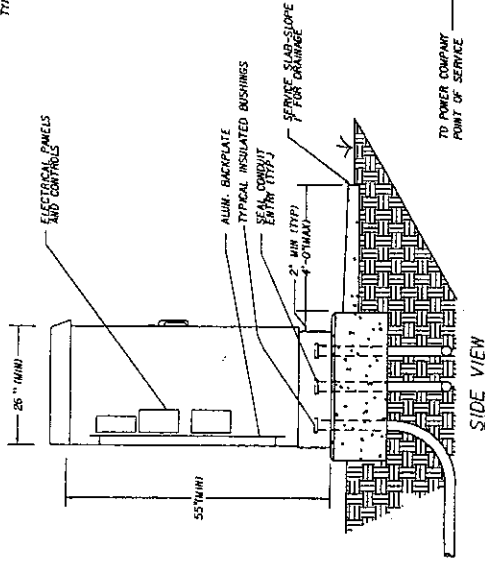
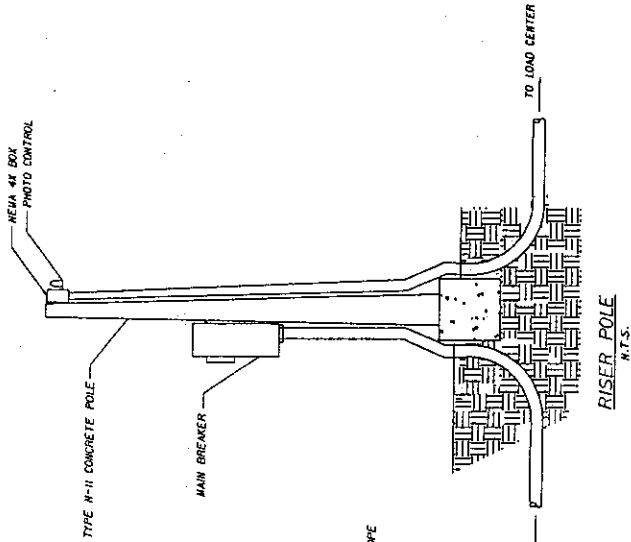
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REVISIONS		DESCRIPTION	
DATE	BY	DATE	BY

Comprehensive Engineering CONSULTANTS, INC. 201 E Orange Ave, Suite 1300 Orlando, FL 32801-3442 Certificate of Authorization Number: 1882 Matthew C. Till, P.E., License No. 82280		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. 45 COUNTY LEE FINANCIAL PROJECT ID 415564-1-52-01	SHEET NO. 16
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GENERAL NOTES

1. CABINET SHALL BE PROVIDED PER SUBMITTAL ONE TO SCALE 2" = 1'-0"
2. CONCRETE SHALL BE CLASS 1 AND BEHIND CONCRETE BASE

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

CES Comprehensive Engineering Services, Inc.
 201 S Orange Ave., Suite 1300 Orlando, FL 32801-3442
 Certificate of Authorization Number: 7862
 Matthew C. Tice, P.E., License No. 90280

ROAD NO.	45
COUNTY	LEE
FINANCIAL PROJECT ID	415564-1-52-01

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

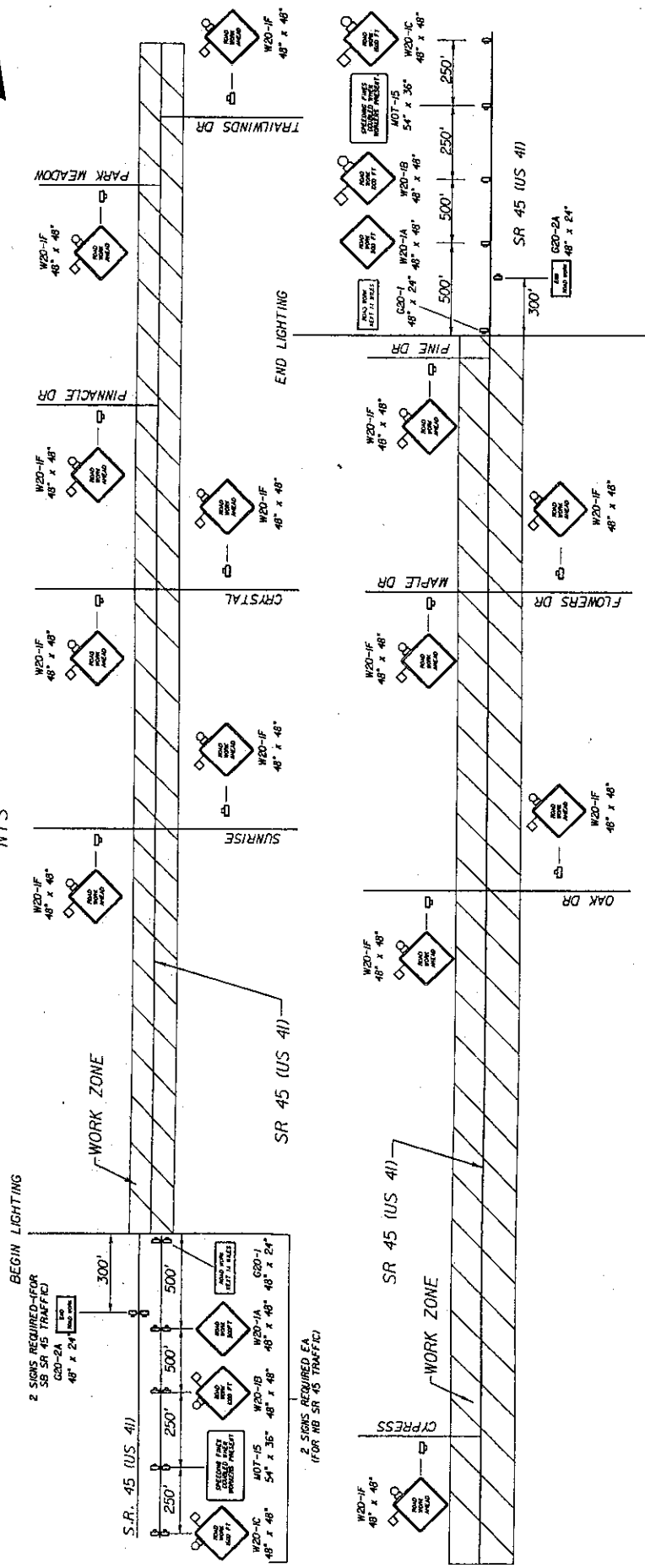
SHEET NO. 17

DATE: 4/17/2008

SCALE: N.T.S.

ADVANCE SIGNING DETAIL

NTS



TRAFFIC CONTROL NOTES

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FOOT DESIGN STANDARDS (2004), INDEX 600 SERIES, SPECIFICALLY INDEX NO.'S 600, 611, 622 & 623.
2. EXISTING TRAFFIC MOVEMENTS TO REMAIN OPEN AT ALL TIMES. NO LANE CLOSURES ARE PERMITTED ALONG SR 45 (US 41).
3. THE POSTED SPEED LIMIT OF 45 MPH SHALL REMAIN AT ALL TIMES DURING CONSTRUCTION.

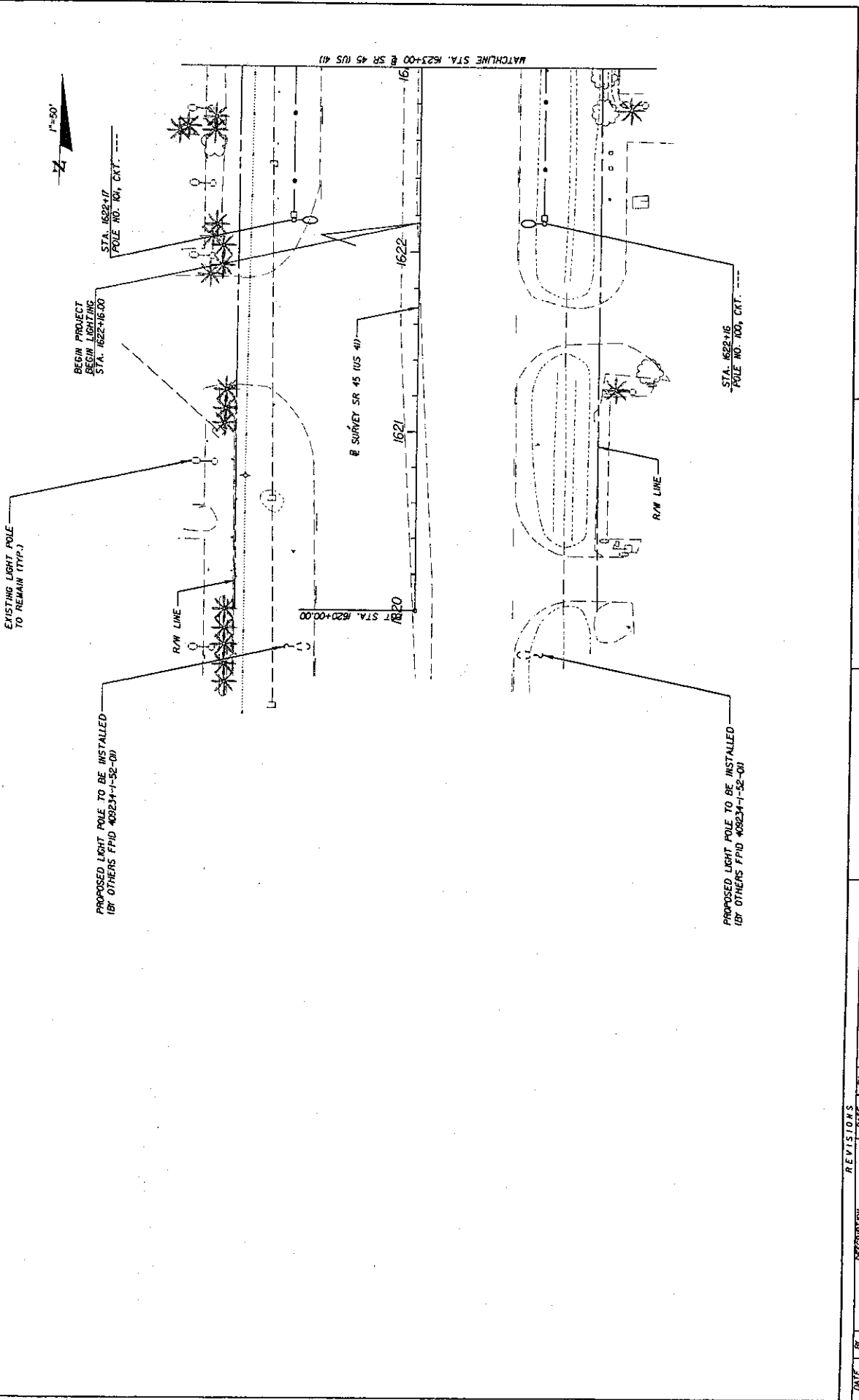
DATE	BY	DESCRIPTION

CES Comprehensive Engineering Services, Inc.
 201 S. Orange Ave., Suite 1300 Orlando, FL 32801-3444
 Certificate of Authorization Number: 1862
 Matthew C. Thies, P.E., License No. 60280

STATE OF FLORIDA	FINANCIAL PROJECT ID
DEPARTMENT OF TRANSPORTATION	
ROAD NO. 45	COUNTY LEE
	PROJECT ID 415564-1-52-01

TRAFFIC CONTROL PLAN	
SHEET NO.	18

DATE: 4/14/2024 3:40:37 PM USER: p10009313\p10009313\p10009313\p10009313



DATE	BY	DESCRIPTION

STATES OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
ROAD NO.	FINANCIAL PROJECT ID
45	415564-1-52-01
COUNTY	LEE

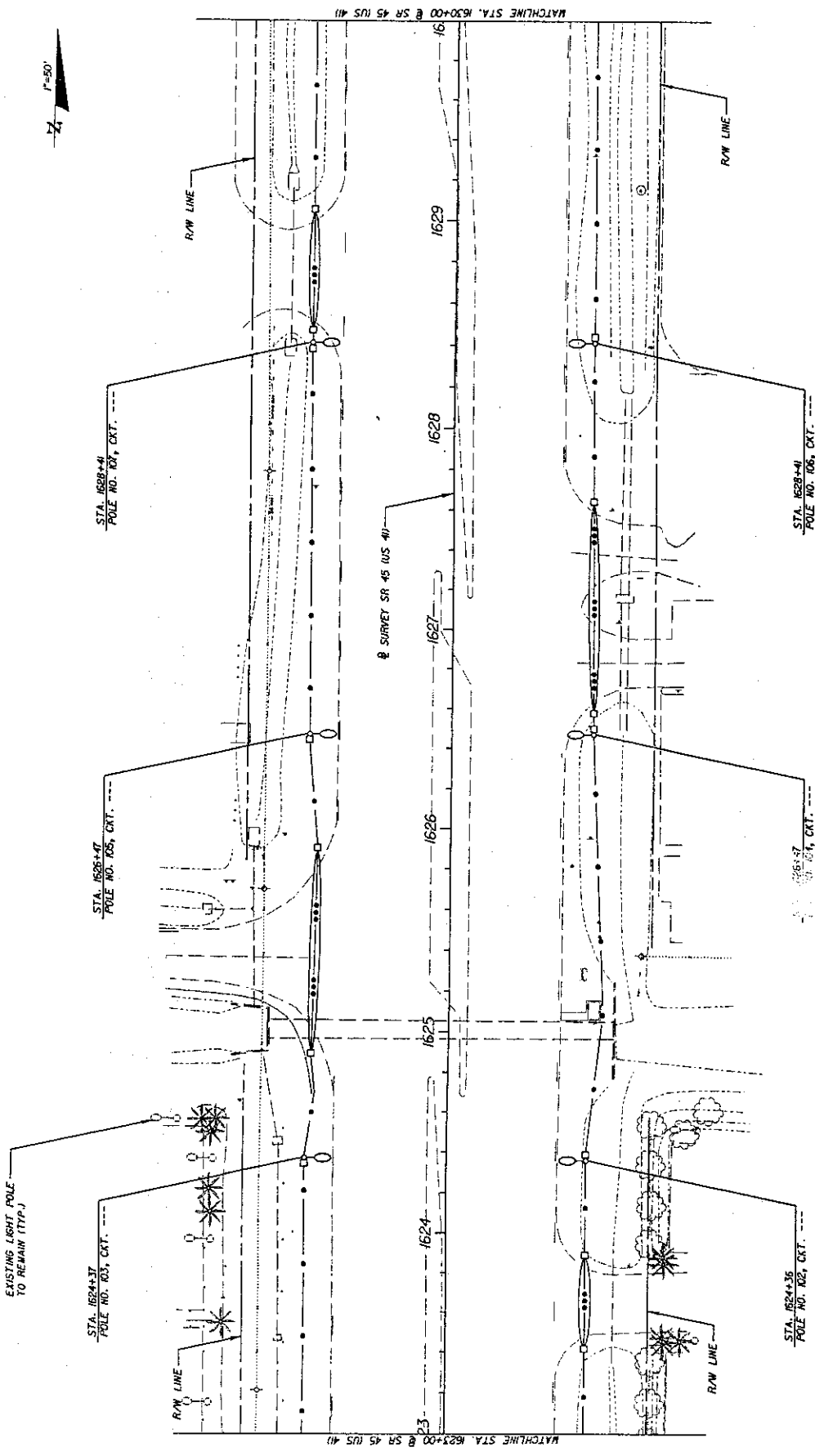
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UTILITY ADJUSTMENT

SHEET NO. 19

1/10/2008 PROJECT: C:\PROJ\162000\162000.DWG

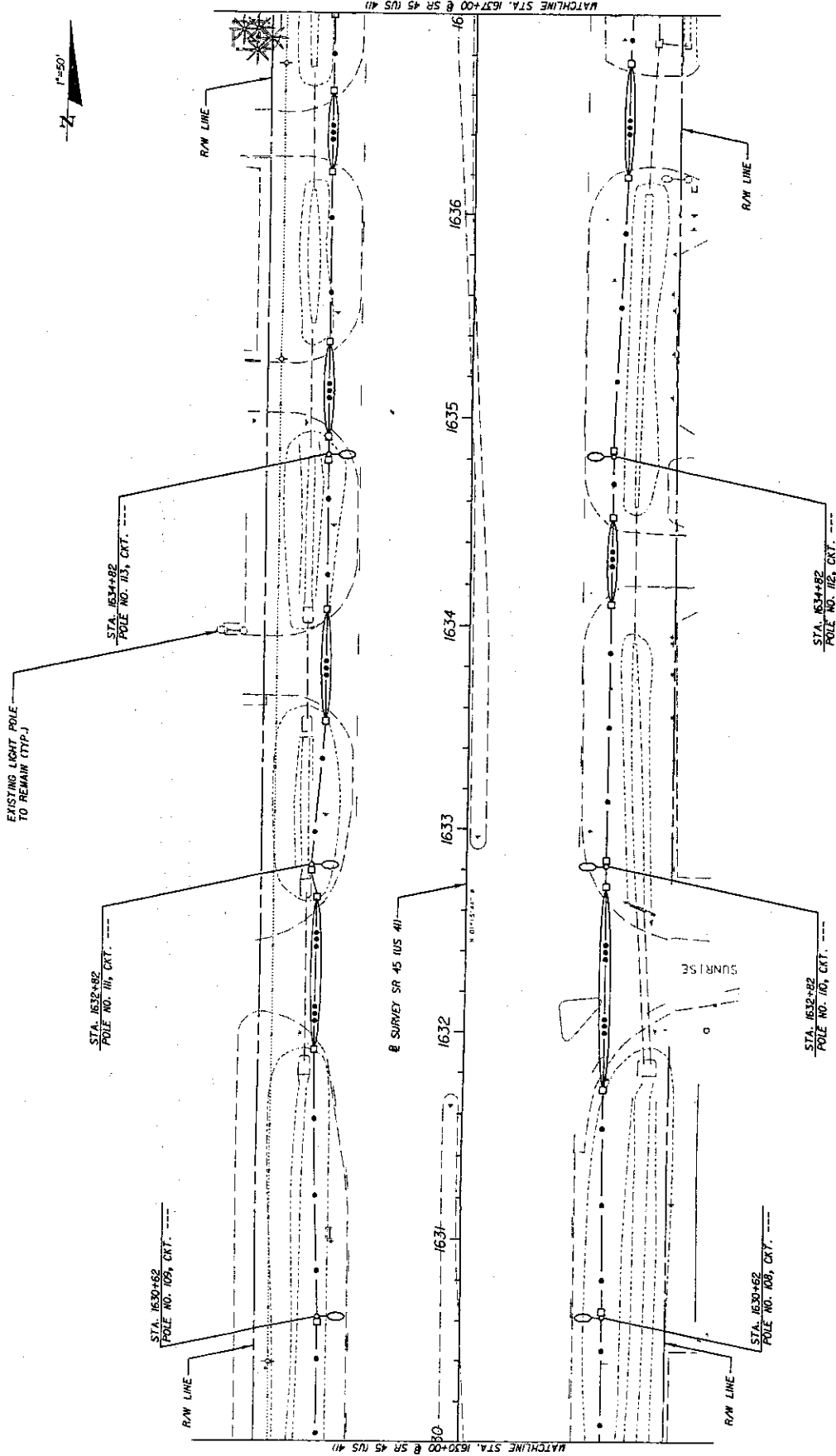


DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
45	LEE	415564-1-52-01	

UTILITY ADJUSTMENT	
SHEET NO.	20

DESIGN NUMBER: 415564-1-52-01
 DRAWN BY: J. WASSERMAN
 CHECKED BY: J. WASSERMAN
 DATE: 11/14/2008
 PROJECT NO.: 415564-1-52-01



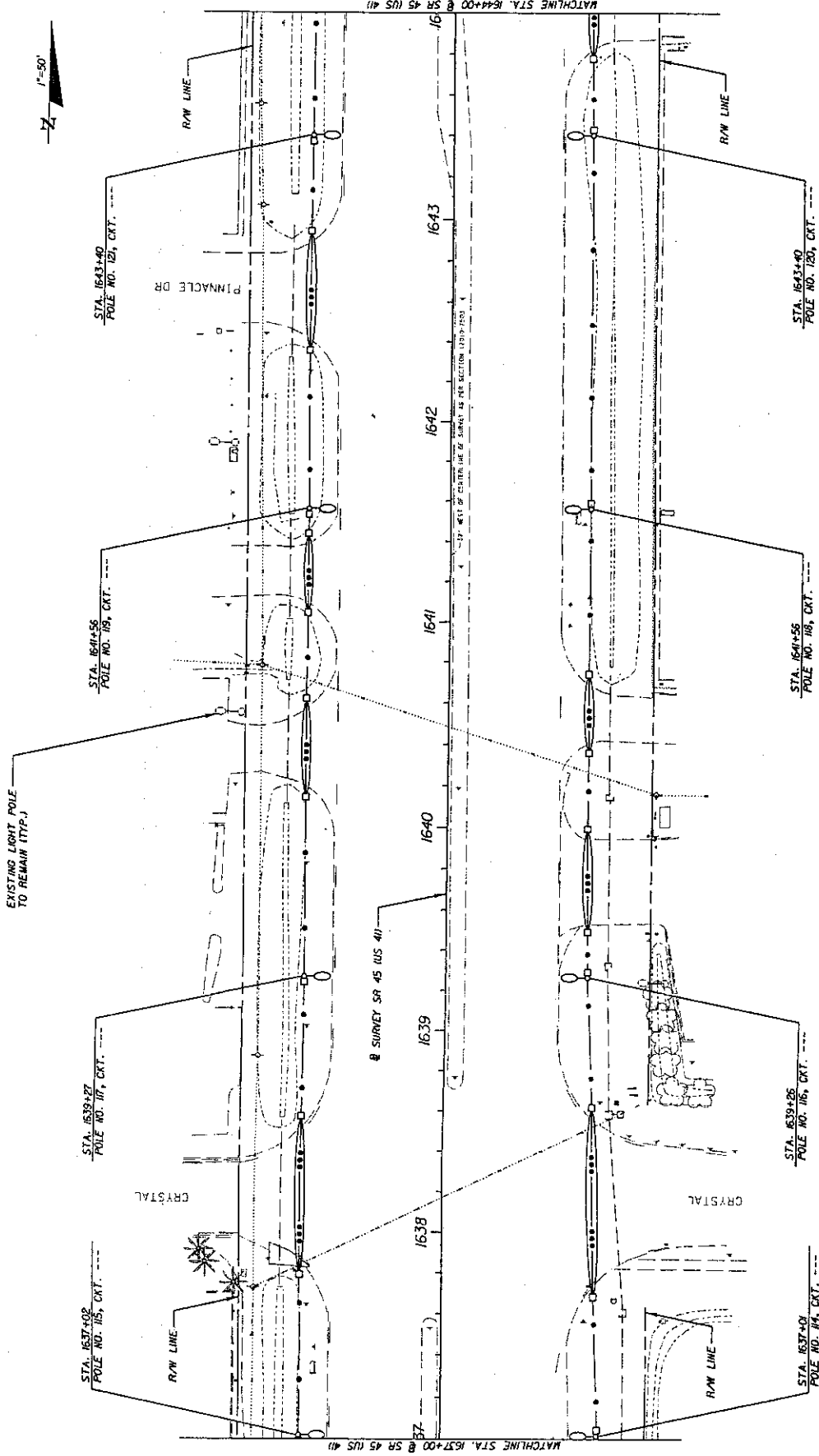
REVISIONS		DATE	BY	DESCRIPTION

STATE OF FLORIDA	
DEPARTMENT OF TRANSPORTATION	
ROAD NO.	45
COUNTY	LEE
FINANCIAL PROJECT ID	415564-1-52-01
USER	
DATE	
TIME	
PROJECT NUMBER	
PROJECT NAME	

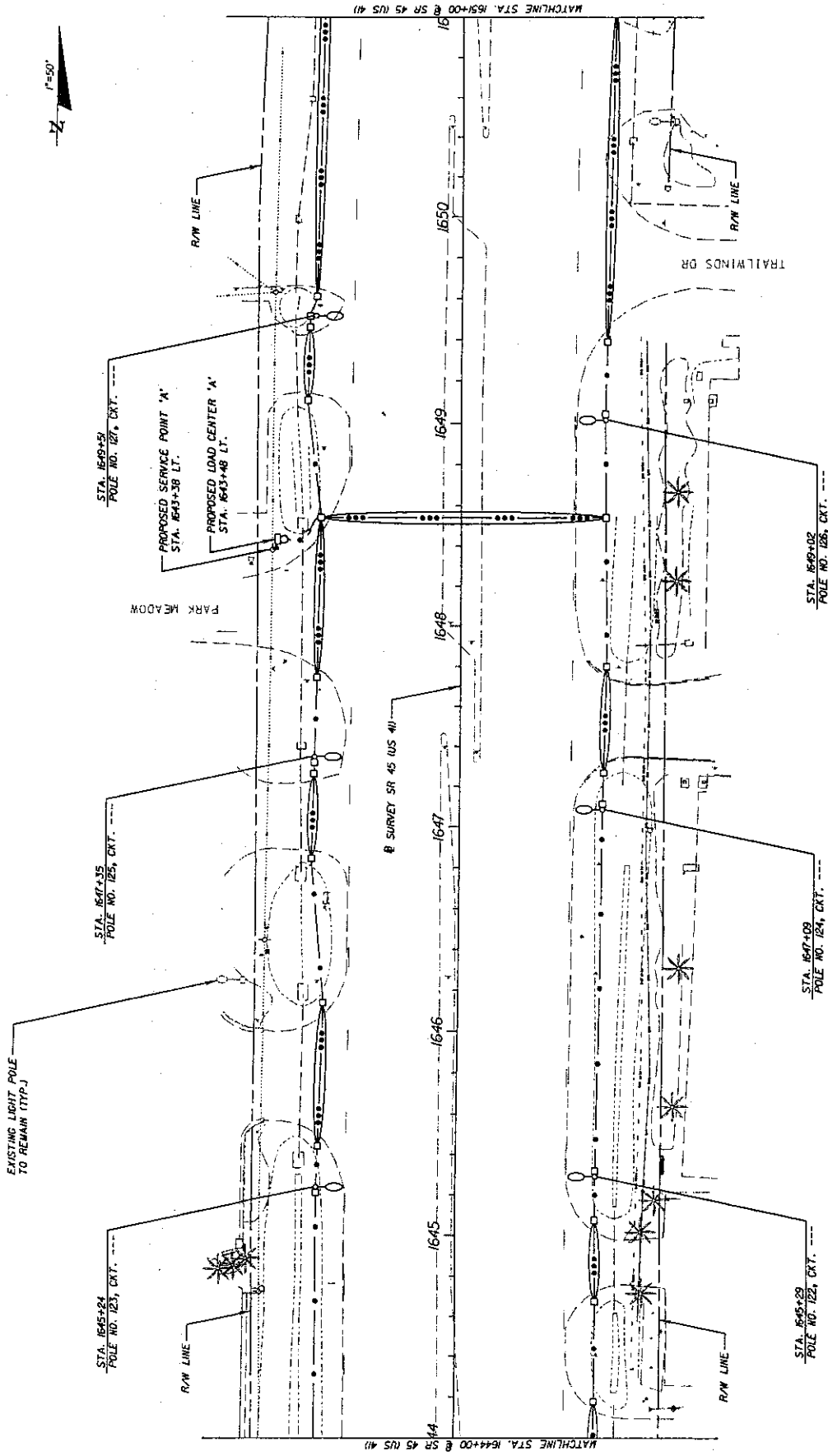
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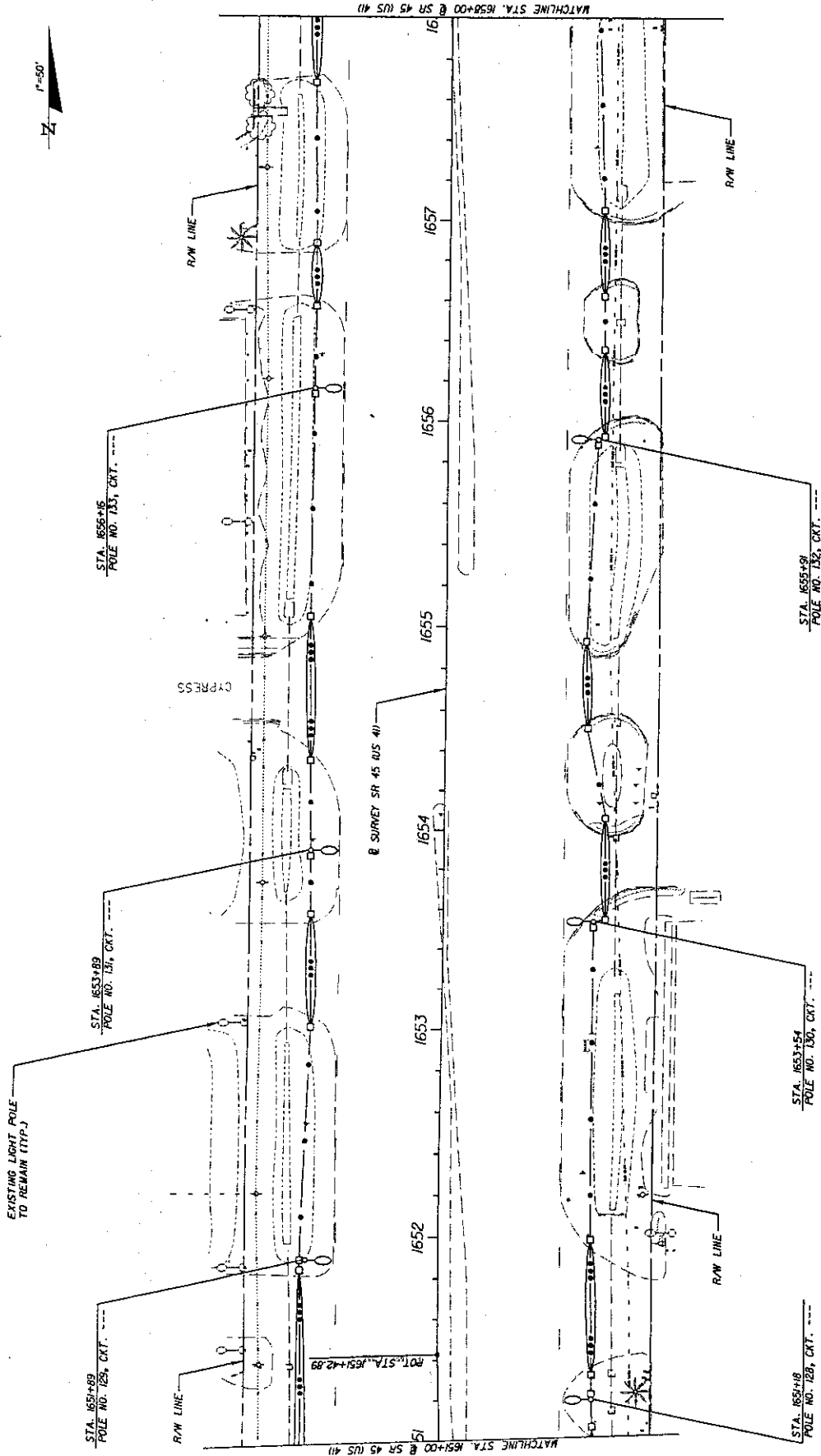


DATE		REVISIONS		DESCRIPTION	
BY	DATE	BY	DATE	DESCRIPTION	DESCRIPTION
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UTILITY ADJUSTMENT					
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SHEET NO.				22	

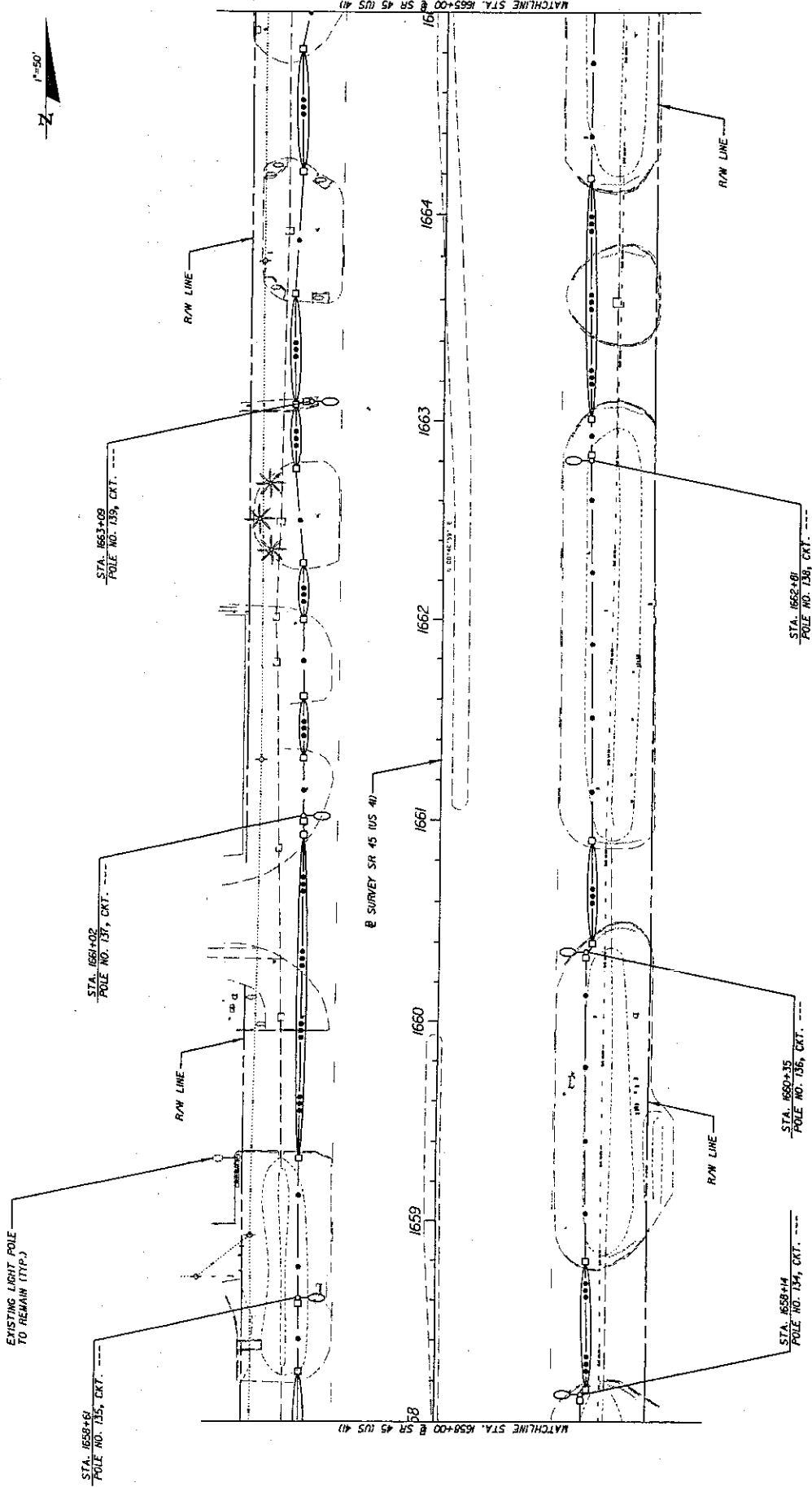


REVISIONS		STATES OF FLORIDA		DEPARTMENT OF TRANSPORTATION		UTILITY ADJUSTMENT	
DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID.	SHEET NO.	
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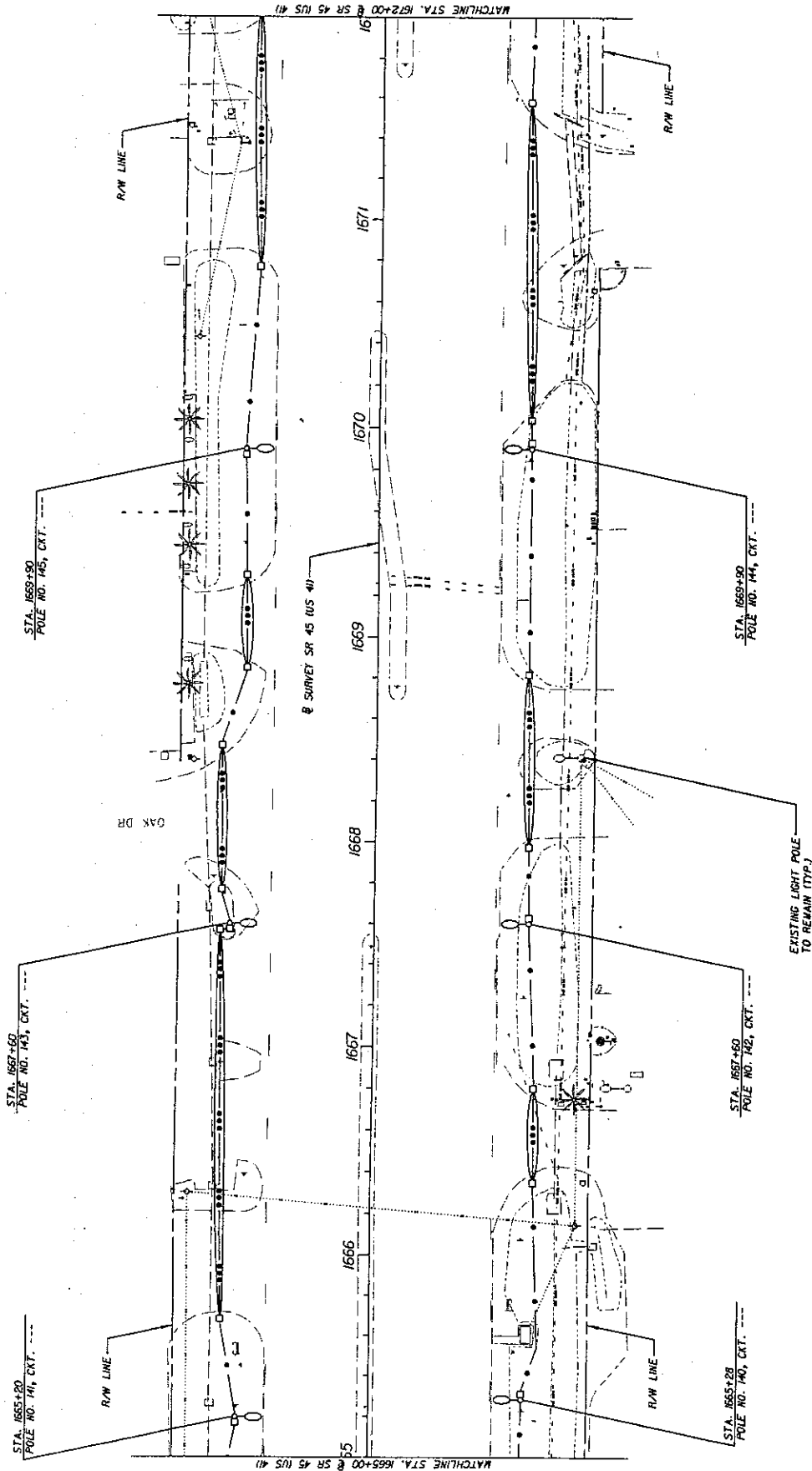


REVISIONS		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET NO.	
DATE	BY	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	24
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		UTILITY ADJUSTMENT			
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DATE		REVISIONS	DESCRIPTION	
STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. 45 COUNTY LEE FINANCIAL PROJECT ID 415564-1-52-01				
UTILITY ADJUSTMENT				
SHEET NO.			25	

DATE: 11/14/2009 TIME: 11:48:09 AM PROJECT NUMBER: 415564-1-52-01



STA. 1655+20
POLE NO. 141, CKT. ---

STA. 1667+60
POLE NO. 143, CKT. ---

STA. 1659+90
POLE NO. 145, CKT. ---

STA. 1669+90
POLE NO. 144, CKT. ---

STA. 1653+28
POLE NO. 140, CKT. ---

STA. 1667+60
POLE NO. 142, CKT. ---

STA. 1653+28
POLE NO. 140, CKT. ---

STA. 1667+60
POLE NO. 142, CKT. ---

STA. 1659+90
POLE NO. 144, CKT. ---

MATCHLINE STA. 1622+00 & SR 45 (US 41)

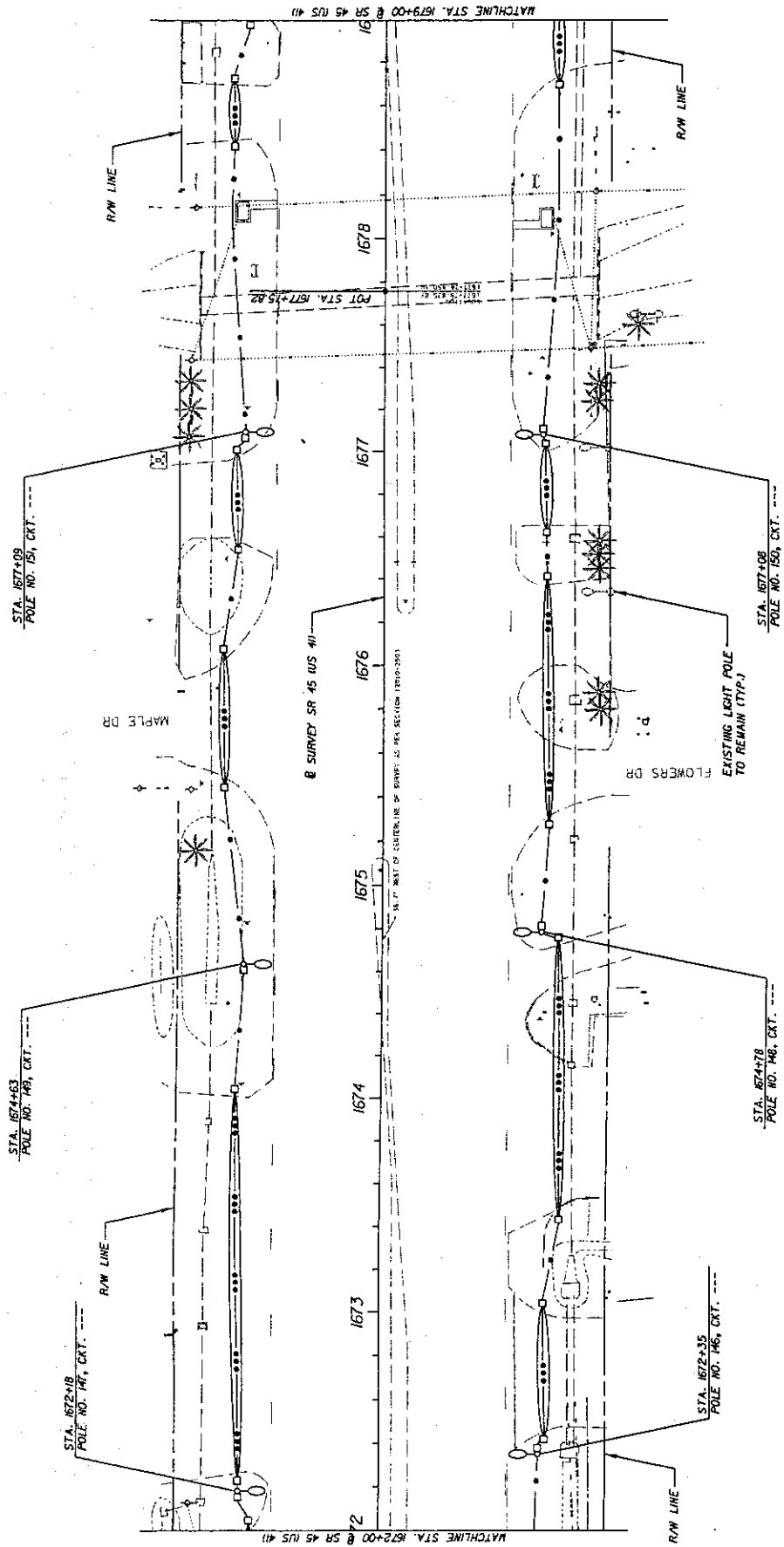
MATCHLINE STA. 1665+00 & SR 45 (US 41)

DATE	BY	DESCRIPTION	REVISORS	DATE	BY	DESCRIPTION

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.	45	COUNTY	LEE
FINANCIAL PROJECT ID		41556A-1-52-01	

UTILITY ADJUSTMENT	
SHEET NO.	26

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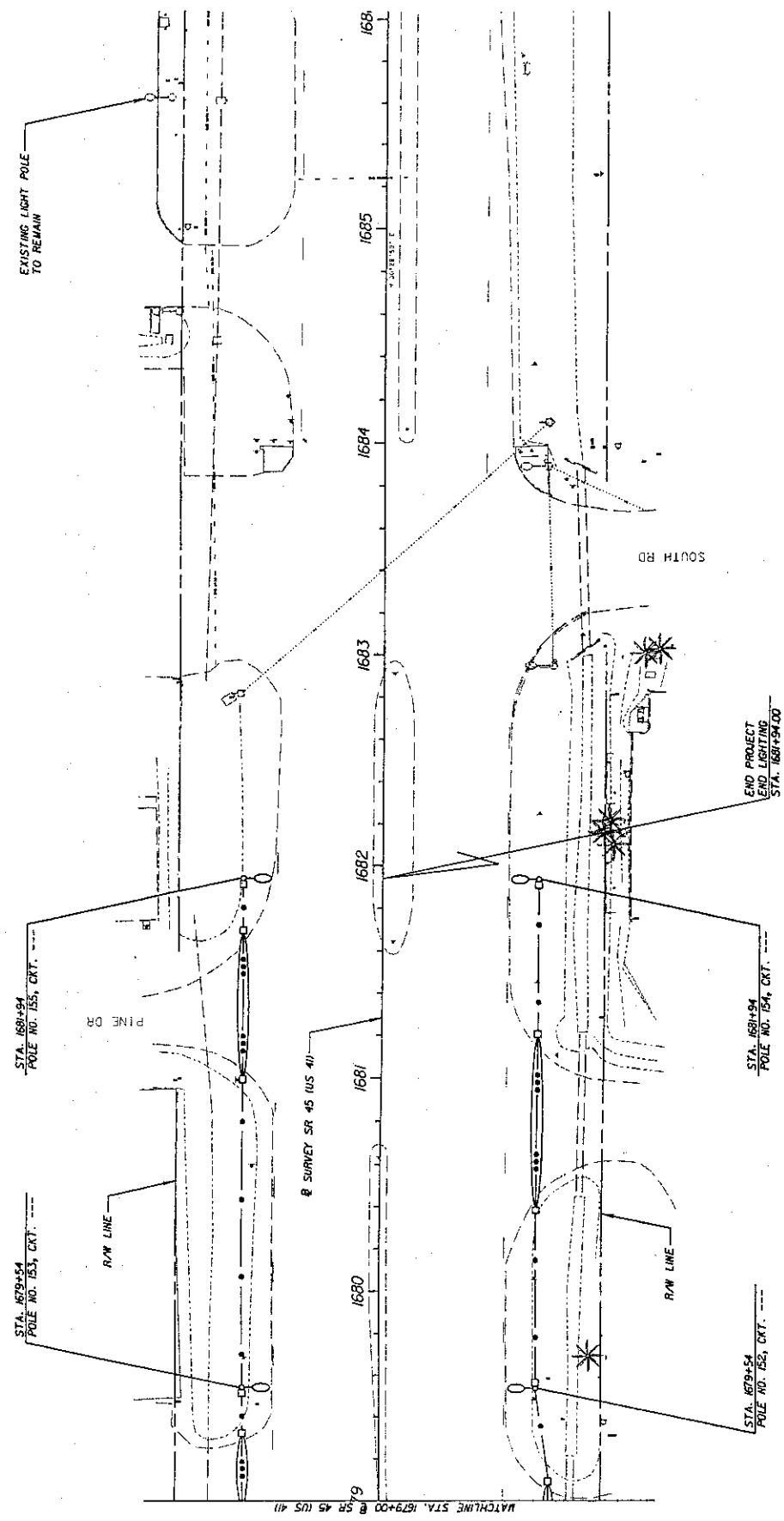


REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION		FINANCIAL PROJECT ID	
ROAD NO.	QUANTITY	LEE	415564-1-52-01
45	LEE		

UTILITY ADJUSTMENT		SHEET NO.	27
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4/14/2014 10:53:27 AM
 USER: m...
 PROJECT'S COMPANY: M...



DATE		REVISIONS		DESCRIPTION	
BY	DATE	BY	DATE	DESCRIPTION	

STATE OF FLORIDA		FINANCIAL PROJECT ID	
DEPARTMENT OF TRANSPORTATION	ROAD NO.	COUNTY	415564-1-52-01
45	LEE		

UTILITY ADJUSTMENT	
SHEET NO.	28

DATE: 11/20/04 TIME: 08:24 USER: JMM/BJM PROJECT: SR 45 (US 41) SR 45 (US 41)

GENERAL NOTES:
 CONSTRUCTION SPECIFICATIONS
 FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS
 FOR ROAD AND BRIDGE CONSTRUCTION (2004 EDITION) WITH APPROVED
 SUPPLEMENTS THERETO.

DESIGN METHODS:
 LOAD FACTOR DESIGN.
 CONCRETE:

CLASS IV
 MINIMUM 28-DAY COMPRESSIVE STRENGTH $f'_c = 4000$ PSI
 LOCATION LUMINAIRE SPREAD FOOTING

REINFORCING STEEL
 REINFORCEMENT CAN BE EITHER DEFORMED BAR REINFORCEMENT OR WELDED WIRE FABRIC. BAR REINFORCEMENT SHALL BE ASTM A601, GRADE 60. DEFORMED WELDED WIRE FABRIC SHALL HAVE A DESIGN STRENGTH OF 65 KSI.

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

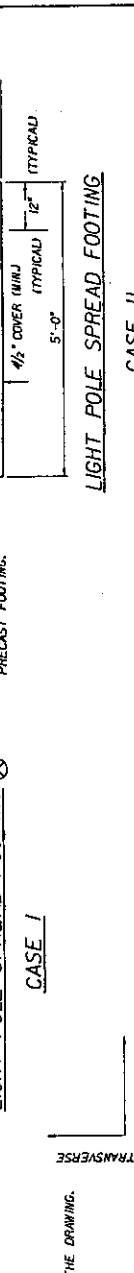
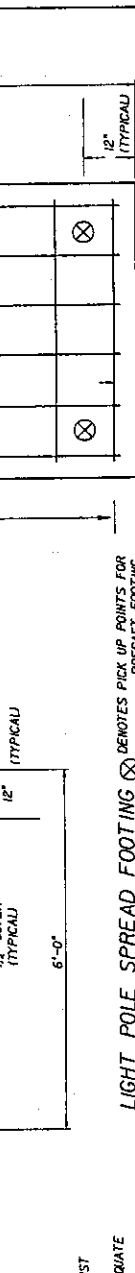
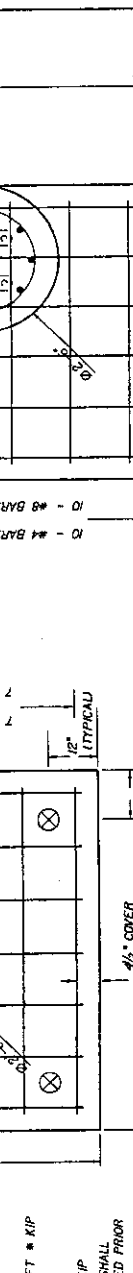
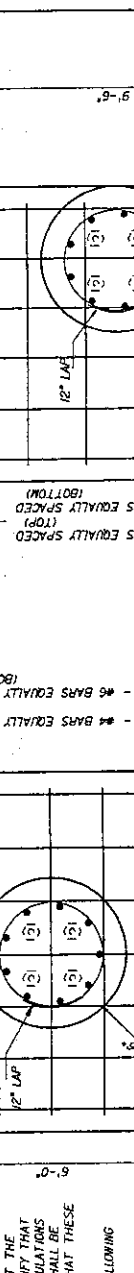
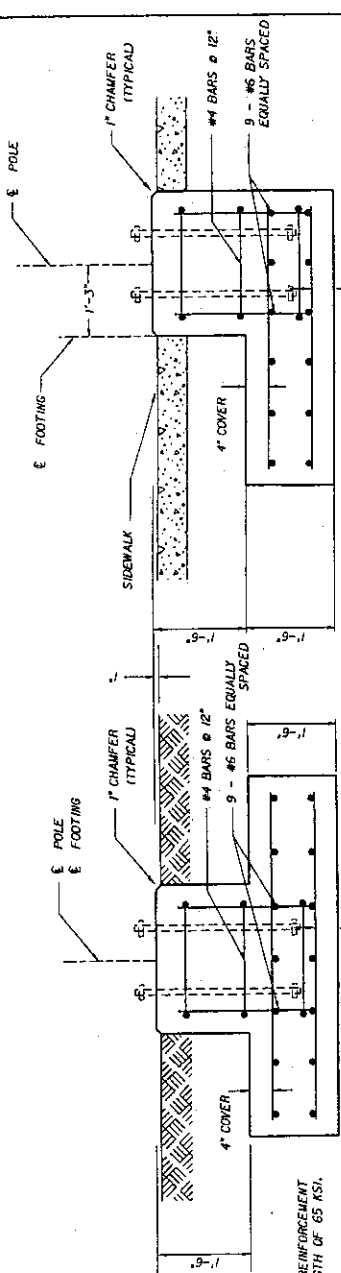
LUMINAIRE SPREAD FOOTING NOTES:
 1. AT THE CONTRACTOR'S RISK BASED ON THE EXISTING UTILITIES, HE MAY SUBSTITUTE THE SPREAD FOOTING WITH THE BRILL SHAFT AS SHOWN IN INDEX 17503 OF THE DESIGN STANDARDS.
 2. THE COST OF THE FOOTING IS INCLUDED IN THE PM ITEM NUMBER FOR LIGHT POLE COMPLETE.
 3. SOIL BELOW FOOTING IS TO HAVE A MINIMUM BEARING CAPACITY OF 2.5 kip/sq ft.

4. ANCHOR BOLTS ARE TO HAVE A MINIMUM 4 1/2 INCHES CONCRETE COVER AT BOTTOM OF FOOTING. INCREASE HEIGHT OF PEDESTAL AS REQUIRED TO ACCOMMODATE LONGER BOLTS.
 5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANCHOR BOLTS THAT EFFECTIVELY TRANSMIT THE LIGHT POLE LOAD TO THE SHAFT AND THAT FIT THE REINFORCING CAGE. HE MUST ALSO VERIFY THAT THE FORCES OF THE LIGHT POLE DO NOT EXCEED THE DESIGN LOADS OF THIS FOOTER. CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DEPARTMENT FOR REVIEW AND APPROVAL SHOWING THAT THESE REQUIREMENTS HAVE BEEN MET PRIOR TO CONSTRUCTION.

6. THE PULL BOX WILL BE INSTALLED ADJACENT TO AND NOT ABOVE THE FOOTING, THEREFORE ALLOWING ADEQUATE DRAINAGE OF THE PULL BOX.
 7. DESIGN LOADS NOT TO EXCEED:
 MOMENT IN TRANSVERSE DIR. = 18.6 FT * KIP
 MOMENT IN LONGITUDINAL DIR. = 18.79 FT * KIP
 AXIAL TORSION = 0.26 KIP
 SHEAR IN TRANSVERSE DIR. = 0.65 KIP
 SHEAR IN LONGITUDINAL DIR. = 0.44 KIP

8. ALL CONDUIT SHOULD BE RIGID GALVANIZED STEEL OR SCHEDULE 40 PVC. BENDS IN CONDUIT SHALL BE MADE USING A RADIUS NOT LESS THAN 18 IN. LOCATION OF THE CONDUIT SHALL BE VERIFIED PRIOR TO CONSTRUCTION CONDUIT NOT SHOWN FOR CLARITY.

PRECAST FOOTING NOTES:
 1. SURFACE FINISH: THE EXPOSED PART OF THE PEDESTAL SHALL HAVE A CLASS 3 FINISH.
 2. HANDLING: PRECAST CONCRETE FOOTINGS MUST BE MAINTAINED IN A FLAT POSITION. THEY MUST BE PICKED UP FROM TWO (2) POINTS LOCATED AT EACH END.
 3. STORAGE AND TRANSPORTATION: ALL PRECAST CONCRETE FOOTINGS MUST BE STORED ON ADEQUATE DRAINAGE. THE PRECAST CONCRETE FOOTINGS MUST BE SUPPORTED NO CLOSER THAN 6 INCHES AND NO FURTHER THAN 18 INCHES FROM THE END.
 4. MARKING: EACH PRECAST CONCRETE FOOTING SHALL BE MARKED SHOWING CASTING DATE, AND IDENTIFICATION LETTERS AND NUMBERS.
 5. WELDED WIRE FABRIC MUST HAVE AN AREA EQUIVALENT TO THE REINFORCEMENT SHOWN IN THE DRAWING. (APPROVED SHOP DRAWING IS REQUIRED)



LIGHT POLE SPREAD FOOTING ⊗ DENOTES PICK UP POINTS FOR PRECAST FOOTING.

CASE I

CASE II

LONGITUDINAL
 TRANSVERSE

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

DESIGNED BY	RS-L 8/700	ENGINEER OF RECORD	GERARD MOLIÈRE P.E. No. 48718
CHECKED BY	RS-L 8/700	STRUCTURES DESIGN OFFICE	
APPROVED BY	RS-L 8/700	FLORIDA DEPARTMENT OF TRANSPORTATION	
PROJECT NO.	45	COUNTY	LEE
PROJECT NAME	SR 45 (US 41) LIGHTING	PROJECT NO.	45564-1-52-01
SHEET NO.	29		