

LEE COUNTY PUBLIC WORKS  
DEPARTMENT OF TRANSPORTATION

CORKSCREW ROAD WIDENING - PHASE II

BELLA TERRA BOULEVARD TO ALICO ROAD

JEI PROJECT ID: 20192030-000

LEE COUNTY (2014100)

COUNTY ROAD NO. 850

LIGHTING PLANS

INDEX OF LIGHTING PLANS

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GOVERNING STANDARD PLANS:

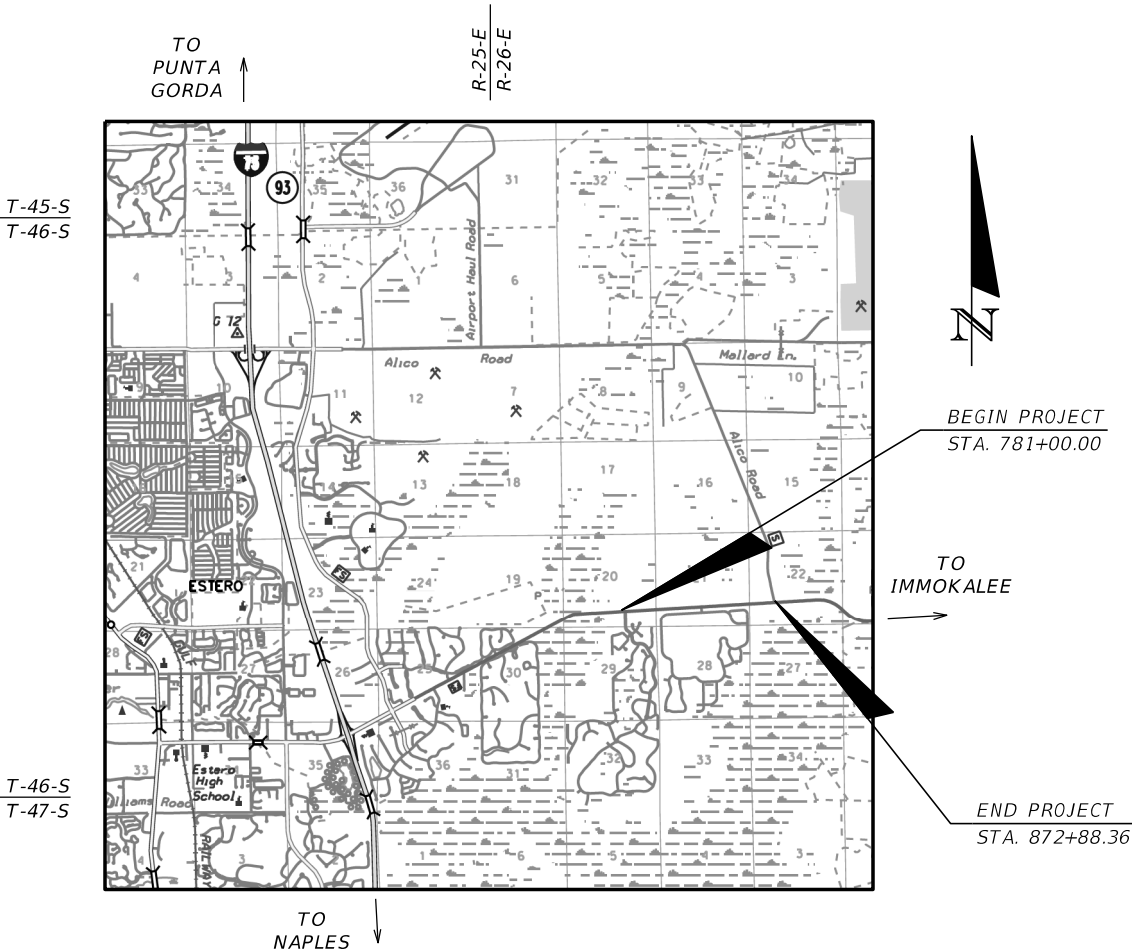
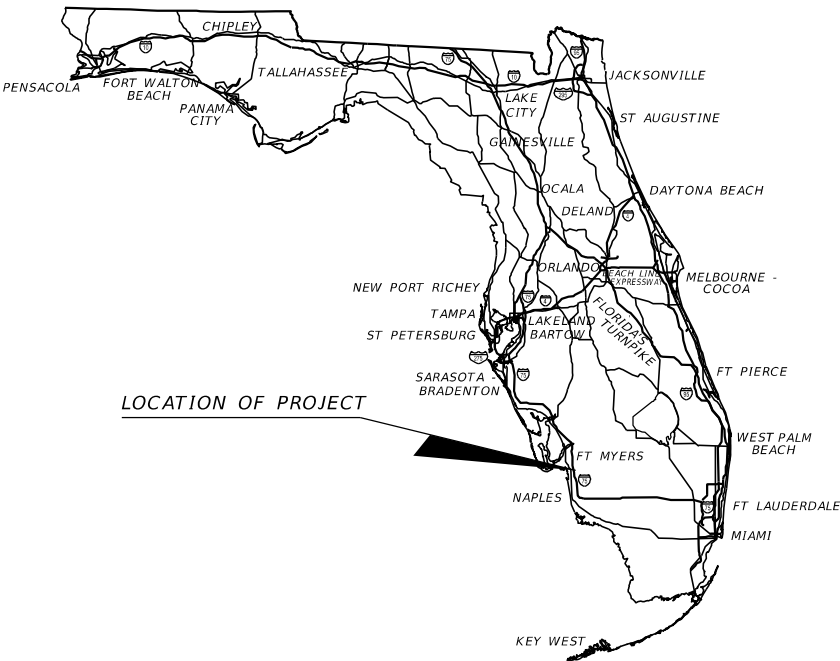
Florida Department of Transportation, FY2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

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



JOHNSON  
ENGINEERING

LIGHTING PLANS  
ENGINEER OF RECORD:

LEAH M. HOLMES, P.E.  
P.E. NO.: 85359  
JOHNSON ENGINEERING, INC.  
2122 JOHNSON STREET  
FORT MYERS, FLORIDA 33901  
CERTIFICATE OF AUTHORIZATION NO.: 642

LEE COUNTY PROJECT MANAGER:  
DAVID M. MURPHY, P.E.

FINAL SUBMITTAL  
JANUARY 2023

| CONSTRUCTION CONTRACT NO. | FISCAL YEAR | SHEET NO. |
|---------------------------|-------------|-----------|
|                           | 22          | L-1       |

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JOHNSON ENGINEERING  
2122 JOHNSON STREET  
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CERTIFICATE OF AUTHORIZATION: 00642  
LEAH M. HOLMES, P.E. NO. 85359

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

| SHEET NO.       | SHEET DESCRIPTION          |
|-----------------|----------------------------|
| L - 1           | KEY SHEET                  |
| L - 2           | SIGNATURE SHEET            |
| L - 3 - L - 4   | TABULATION OF QUANTITIES   |
| L - 5           | GENERAL NOTES              |
| L - 6           | PAY ITEM NOTES             |
| L - 7 - L - 8   | POLE DATA AND LEGEND SHEET |
| L - 10          | SPECIAL LIGHTING DETAILS   |
| L - 11 - L - 24 | LIGHTING PLAN SHEETS       |

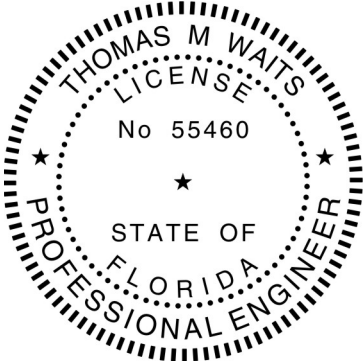
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CERTIFICATE OF AUTHORIZATION: 00642  
WAYNE W. WRIGHT, P.E. NO. 58220

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| SHEET NO. | SHEET DESCRIPTION     |
|-----------|-----------------------|
| L - 2     | SIGNATURE SHEET       |
| L - 9     | SERVICE POINT DETAILS |



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HIGH SPANS ENGINEERING, INC.  
2121 MCGREGOR BOULEVARD, SUITE 200  
FORT MYERS, FLORIDA 33901  
REGISTRY NO: 27559  
THOMAS M. WAITS, P.E. NO. 55460

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| SHEET NO.       | SHEET DESCRIPTION         |
|-----------------|---------------------------|
| L - 2           | SIGNATURE SHEET           |
| L - 25 - L - 26 | LIGHT POLE SPREAD FOOTING |

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

JOHNSON ENGINEERING

LEAH M. HOLMES • P.E. LICENSE NO. 85359  
JOHNSON ENGINEERING, INC.  
2122 JOHNSON STREET • FORT MYERS, FL 33901  
CERTIFICATE OF AUTHORIZATION NO. 642

| LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                |
|---------------------------------------------------------|--------|----------------|
| ROAD NO.                                                | COUNTY | JEI PROJECT ID |
| C.R. 850                                                | LEE    | 20192030-000   |

SIGNATURE SHEET

|           |
|-----------|
| SHEET NO. |
| L-2       |

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# TABULATION OF QUANTITIES

[illegible]

| REVISIONS |             |      |             | <div><br/><b>JOHNSON<br/>ENGINEERING</b><br/>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | TABULATION OF QUANTITIES | SHEET<br>NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|--------------------------|--------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                                                                                                                       | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                          |              |
|           |             |      |             |                                                                                                                                                                                                                                                                                                       | C.R. 850                                                | LEE    | 20192030-000   |                          | L-3          |
|           |             |      |             |                                                                                                                                                                                                                                                                                                       |                                                         |        |                |                          |              |

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# TABULATION OF QUANTITIES

| PAY<br>ITEM<br>NO. | DESCRIPTION                                                                                         | UNIT | SHEET NUMBERS |       |        |       |        |       |        |       |        |       |        |       |        |       | TOTAL<br>THIS<br>SHEET |       | GRAND<br>TOTAL |       |
|--------------------|-----------------------------------------------------------------------------------------------------|------|---------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|------------------------|-------|----------------|-------|
|                    |                                                                                                     |      | L - 18        |       | L - 19 |       | L - 20 |       | L - 21 |       | L - 22 |       | L - 23 |       | L - 24 |       |                        |       |                |       |
|                    |                                                                                                     |      | PLAN          | FINAL | PLAN   | FINAL | PLAN   | FINAL | PLAN   | FINAL | PLAN   | FINAL | PLAN   | FINAL | PLAN   | FINAL | PLAN                   | FINAL | PLAN           | FINAL |
| 630-2-11           | CONDUIT, FURNISH & INSTALL, OPEN TRENCH                                                             | LF   | 1096          |       | 1256   |       | 1400   |       | 1423   |       | 1490   |       | 1230   |       | 711    |       | 8606                   |       | 14313          |       |
| 630-2-11A          | CONDUIT, FURNISH & INSTALL, INTERCONNECT                                                            | LF   | 703           |       | 703    |       | 700    |       | 701    |       | 721    |       | 711    |       | 305    |       | 4543                   |       | 8021           |       |
| 630-2-11U          | CONDUIT, FURNISH & INSTALL, INTERCONNECT                                                            | LF   | 702           |       | 703    |       | 700    |       | 701    |       | 700    |       | 704    |       |        |       | 4210                   |       | 6917           |       |
| 630-2-12           | CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE                                                        | LF   |               |       |        |       |        |       | 98     |       |        |       | 202    |       |        |       | 300                    |       | 738            |       |
| 630-2-12A          | CONDUIT, FURNISH & INSTALL, INTERCONNECT, DIRECTIONAL BORE                                          | LF   |               |       |        |       |        |       |        |       |        |       |        |       |        |       |                        |       | 60             |       |
| 633-1-123          | FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS                                                   | LF   | 853           |       | 1003   |       | 850    |       | 851    |       | 1096   |       | 836    |       |        |       | 5489                   |       | 11747          |       |
| 633-1-123U         | FIBER OPTIC CABLE, F&I, UNDERGROUND, 49-96 FIBERS                                                   | LF   | 852           |       | 1153   |       | 850    |       | 851    |       | 1000   |       | 1079   |       |        |       | 5785                   |       | 9767           |       |
| 633-2-31           | FIBER OPTIC CONNECTION, INSTALL, SPLICE                                                             | EA   |               |       |        |       |        |       |        |       |        |       |        |       |        |       |                        |       | 96             |       |
| 633-8-1            | MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL                                              | LF   |               |       |        |       |        |       |        |       | 800    |       |        |       | 600    |       | 1400                   |       | 1400           |       |
| 635-2-11A          | PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE                                                        | EA   |               |       |        |       |        |       | 8      |       | 3      |       | 5      |       | 2      |       | 18                     |       | 29             |       |
| 635-2-12           | PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE                                                        | EA   | 1             |       | 2      |       | 1      |       | 1      |       | 2      |       | 1      |       | 2      |       | 10                     |       | 20             |       |
| 635-2-12U          | PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE                                                        | EA   | 1             |       | 3      |       | 1      |       | 1      |       | 2      |       | 2      |       |        |       | 10                     |       | 18             |       |
| 639-1-122          | ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR                           | AS   |               |       |        |       |        |       | 1      |       |        |       |        |       |        |       | 1                      |       | 2              |       |
| 639-2-1            | ELECTRICAL SERVICE WIRE, FURNISH & INSTALL                                                          | LF   |               |       |        |       |        |       | 19     |       |        |       |        |       |        |       | 19                     |       | 53             |       |
| 641-2-12           | PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE                                              | EA   |               |       |        |       |        |       | 2      |       | 1      |       |        |       | 1      |       | 4                      |       | 6              |       |
| 660-3-12           | VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT                      | EA   |               |       |        |       |        |       |        |       | 1      |       |        |       | 1      |       | 2                      |       | 2              |       |
| 676-2-111          | ITS CABINET, FURNISH & INSTALL, POLE MOUNT, 336, 24" W X 36" H X 20" D                              | EA   |               |       |        |       |        |       |        |       | 1      |       |        |       | 1      |       | 2                      |       | 2              |       |
| 715-1-11           | LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR < (#10 AWG STRANDED TRACER/LOCATE WIRE) INTERCONNECT | LF   | 702           |       | 703    |       | 700    |       | 701    |       | 700    |       | 704    |       |        |       | 4210                   |       | 6917           |       |
| 715-1-12           | LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8-6 (NO. 6)                                                | LF   | 3343          |       | 3823   |       | 4256   |       | 4747   |       | 4575   |       | 4432   |       | 2197   |       | 27374                  |       | 46210          |       |
| 715-1-40           | LIGHTING CONDUCTORS, RELOCATE EXIST. CONDUCTOR                                                      | LF   |               |       |        |       |        |       |        |       |        |       |        |       |        |       |                        |       | 100            |       |
| 715-4-14           | LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT       | EA   |               |       | 1      |       |        |       | 2      |       | 4      |       | 3      |       | 2      |       | 12                     |       | 16             |       |
| 715-4-24P          | LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE SPECIAL FOUNDATION, 45' MOUNTING HEIGHT        | EA   |               |       |        |       |        |       | 3      |       | 3      |       | 3      |       |        |       | 9                      |       | 9              |       |
| 715-4-24S          | LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE SPECIAL FOUNDATION, 45' MOUNTING HEIGHT        | EA   | 7             |       | 6      |       | 7      |       | 2      |       |        |       | 1      |       | 2      |       | 25                     |       | 49             |       |
| 715-4-60           | LIGHT POLE COMPLETE, RELOCATE                                                                       | EA   |               |       |        |       |        |       |        |       |        |       |        |       |        |       |                        |       | 2              |       |
| 715-4-817          | LIGHT POLE COMPLETE, FURNISH & INSTALL UTILITY CONFLICT POLE, SPECIAL FOUNDATION, 35' HEIGHT        | EA   |               |       |        |       |        |       |        |       |        |       |        |       |        |       |                        |       | 1              |       |
| 715-7-12           | LOAD CENTER, F&I, PRIMARY VOLTAGE                                                                   | EA   |               |       |        |       |        |       | 1      |       |        |       |        |       |        |       | 1                      |       | 2              |       |
| 715-500-1          | POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL                                                        | EA   | 7             |       | 7      |       | 7      |       | 7      |       | 7      |       | 7      |       | 4      |       | 46                     |       | 75             |       |
|                    |                                                                                                     |      |               |       |        |       |        |       |        |       |        |       |        |       |        |       |                        |       |                |       |
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|                    |                                                                                                     |      |               |       |        |       |        |       |        |       |        |       |        |       |        | </    |                        |       |                |       |

| REVISIONS |             |      |             |  <p>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</p> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | <p><i>TABULATION OF QUANTITIES</i></p> | <p>SHEET NO.</p> <p>L-4</p> |
|-----------|-------------|------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|----------------------------------------|-----------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                                                                            | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                        |                             |
|           |             |      |             |                                                                                                                                                                                                                                                            | C.R. 850                                                | LEE    | 20192030-000   |                                        |                             |
|           |             |      |             |                                                                                                                                                                                                                                                            |                                                         |        |                |                                        |                             |

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| <div>LIGHTING GENERAL NOTES:</div> <div><div><div><div>1.</div><div>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:<div><div>A. LUMINAIRE PHOTOMETRICS.</div><div>B. POLE STRENGTH CALCULATIONS AND POLE SHOP DRAWINGS FOR PAY ITEM NO. 715-4-14</div><div>C. POLE FRANGIBILITY TEST</div><div>D. ANCHOR BOLT DESIGN CALCULATIONS AND SHOP DRAWINGS</div><div>E. DISTRIBUTION POINT ELECTRICAL EQUIPMENT</div></div></div><div><div>2.</div><div>THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.</div></div><div><div>3.</div><div>STATE OF FLORIDA STATUTE 556 (2008) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) A MINIMUM OF TWO (2) FULL BUSINESS DAYS AT 1-800-432-4770. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.</div></div><div><div>4.</div><div>THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.</div></div><div><div>5.</div><div>ALUMINUM POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.</div></div><div><div>6.</div><div>SHOP DRAWING SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLE LEVELS TO BE OBTAINED USING SUBMITTED LUMINAIRES ON THIS PROJECT. AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOT CANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER AND SUBMIT REPORT FOR APPROVAL.</div></div><div><div>7.</div><div>ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.</div></div><div><div>8.</div><div>INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES ON OUTSIDE OF ENCLOSURE.</div></div><div><div>9.</div><div>IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.</div></div><div><div>10.</div><div>THE CONTRACTOR SHALL NOTIFY FPL AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 20 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.</div></div><div><div>11.</div><div>PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO CONDUCTOR AND NOT TO THE JACKET AND MEET THE MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY THE NEC OR NECS FOR THE CABLE USED.</div></div><div><div>12.</div><div>CONTRACTOR SHALL FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2 INCHES X 8 INCHES IN SIZE WITH WHITE LETTERS ON BLUE BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE PER THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. BOTTOM OF TAG SHALL BE INSTALLED 5 FEET ABOVE FINISHED GRADE. COORDINATE THE POLE NUMBER WITH LEE COUNTY MAINTENANCE.</div></div><div><div>13.</div><div>THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.</div></div><div><div>14.</div><div>ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE INDICATED IN THE PLANS.</div></div><div><div>15.</div><div>DIRECTIONAL BORE OPERATIONS, IF USED, SHALL MEET THE REQUIREMENTS OF THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNAL AND STREET LIGHTING.</div></div><div><div>16.</div><div>AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHT POLE FOUNDATIONS OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.</div></div><div><div>17.</div><div>ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME WORK PERIOD.</div></div><div><div>18.</div><div>ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER PAY ITEM 715-4-14.</div></div><div><div>19.</div><div>THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.</div></div><div><div>20.</div><div>THE LIGHTING SYSTEM WILL BE MAINTAINED BY LEE COUNTY UPON FINAL ACCEPTANCE. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" PLANS TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.</div></div><div><div>21.</div><div>CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD SHOP DRAWINGS DETAILING THE LAYOUT OF THE ELECTRICAL EQUIPMENT INSIDE THE DISTRIBUTION POINT LIGHTING ELECTRICAL ENCLOSURE.</div></div><div><div>22.</div><div>ALL CONDUCTORS SHALL HAVE THWN-2 600 VOLT INSULATION. ALL CONDUCTORS TO BE THHN/THWN-2. ALL CONDUCTORS SHALL BE CONTINUOUS IN COLOR FROM THE LOAD CENTER TO EACH STREET LIGHT POLE. PHASE TAPE SHALL NOT BE USED TO IDENTIFY A CONDUCTOR.</div></div><div><div>23.</div><div>CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC. CONDUITS MUST BE PLACED WITHIN THE ROADWAY LIMITS, BUT CAN BE ADJUSTED TO FIT AROUND EXISTING AND PROPOSED UTILITIES. WHERE PLANNED LOCATION OF LIGHTING CONDUIT RUNS 36" UNDER PAVEMENT IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE LIGHTING CONDUIT POSITION SHALL BE ALTERED VERTICALLY OR HORIZONTALLY TO AVOID THE CONFLICT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. A 24" ABSOLUTE MINIMUM DEPTH SHALL BE MAINTAINED WHERE LIGHTING CONDUITS ARE RELOCATED CLOSER THAN 36" BELOW THE GROUND SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MINIMUM OF 4" x 4" OF CONCRETE. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED.</div></div><div><div>24.</div><div>CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS-BUILT" PLANS OF FINAL POLE, CONTROLLER, AND CONDUIT LOCATIONS. "AS-BUILT" PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO FINAL ACCEPTANCE. AFTER THE "AS-BUILT" PLANS ARE APPROVED, THE CONTRACTOR SHALL SUBMIT TWO COPIES TO THE RESIDENT ENGINEER AND ONE COPY TO THE LEE COUNTY MAINTENANCE. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO THE PAY ITEMS PROVIDED.</div></div><div><div>25.</div><div>ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUIT PLACED FOR FUTURE USE SHALL HAVE ¼" POLYESTER CORD PULLED IN PLACE AND CAPPED, WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE PULL BOXES TO MARK ENDS OF EMPTY CONDUITS.</div></div><div><div>26.</div><div>THE CONTRACTOR SHALL CONTACT THE POWER COMPANY TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. THE FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE LOAD CENTER.</div></div><div><div>27.</div><div>CONTRACTOR SHALL USE THE CONCRETE FOUNDATION PER FDOT STANDARD PLAN INDEX 715-002 (SCREW TYPE FOUNDATION IS NOT ALLOWED).</div></div><div><div>28.</div><div>ALL POLE FOUNDATIONS SHOULD BE 2" ABOVE GRADE AT ALL LOCATIONS. IF ADJUSTMENTS ARE NECESSARY PLEASE NOTIFY ENGINEER.</div></div><div><div>29.</div><div>STREETLIGHTS, ELECTRIC SERVICES, AND LOAD CENTERS SHALL NOT BE PLACED IN DITCHES, DRAINAGE SLOPES, SWALES, OR WHERE SHEET OR STANDING WATER CAN INTRUDE.</div></div><div><div>30.</div><div>ALL ROADWAY STREET LIGHTING SHALL BE FP&amp;L 480VAC SINGLE PHASE 2-WIRE.</div></div><div><div>31.</div><div>IF THE EOR DETERMINES A SPREAD FOOTER SHALL BE USED IN LIEU OF A PRE-FORMED FOUNDATION, THE SPREAD FOOTER SHALL CONFORM TO THE LATEST FDOT INDEX 715-002 FOR STANDARD ALUMINUM LIGHTING.</div></div></div></div></div> |             |      |             |                                                                                                                                                                                                                                               |                                                         |        |                |               |           |  |  |  |
| REVISIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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HOLMES • P.E. LICENSE NO. 85359</div><div>JOHNSON ENGINEERING, INC.</div><div>2122 JOHNSON STREET • FORT MYERS, FL 33901</div><div>CERTIFICATE OF AUTHORIZATION NO. 642</div></div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | GENERAL NOTES | SHEET NO. |  |  |  |
| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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PAY ITEM FOOTNOTES:

PAY ITEM NO. 630-2-11:  
GENERAL SIGNALIZATION AND STREET LIGHTING CONDUIT SHALL BE PVC CONDUIT AND BE SCHEDULE 40 OR SCHEDULE 80 APPROVED FOR ELECTRICAL USE (GRAY). NO THIN WALL CONDUIT IS ALLOWED. TWENTY (20) FOOT LENGTHS ON RUNS OVER TWENTY (20) FOOT SHALL BE USED.

PAY ITEM NO. 630-2-11A:  
FOC INTERCONNECT CONDUIT SHALL BE, FOUR (4) EACH (1 - GREEN, 1 - BLUE, 1 - ORANGE, 1 - YELLOW) 1-1/4 INCH CONTINUOUS HDPE SDR 13.5. NO OTHER CONDUIT COLORS CAN BE USED UNLESS APPROVED BY LEE COUNTY DOT TRAFFIC IN WRITING. A MINIMUM OF #10 AWG ORANGE CU STRANDED THHN/THWN-2 COPPER WIRE SHALL BE INSTALLED FOR LOCATING PURPOSES IN THE ORANGE CONDUIT. THE LOCATE WIRE SHALL NOT BE SPLICED IN THE CONDUIT. SPLICES OF THE LOCATE WIRE SHALL BE IN PULL BOXES AND SPLICED WITH A SPLIT BOLT AND INSULATED PER NEC. PERFORM CONTINUITY TESTS AND INSULATION RESISTANCE TESTS ON ALL LOCATE WIRES AND PROVIDE LEE COUNTY DOT TRAFFIC WITH ALL TEST RESULTS. REPLACE, OR REPAIR DEFECTIVE LOCATE WIRE AT NO ADDITIONAL COST.

PAY ITEM NO. 630-2-12:  
DIRECTIONAL BORE CONDUIT FOR GENERAL SIGNALIZATION AND STREET LIGHTING SHALL BE TWO (2) INCH CONTINUOUS HDPE SDR 11 AND SHALL BE GRAY IN COLOR. NO OTHER CONDUIT COLOR CAN BE USED UNLESS APPROVED BY LEE COUNTY DOT TRAFFIC IN WRITING.

PAY ITEM NO. 630-2-11 AND 630-2-12:  
THE CONTRACT UNIT PRICE PER FOOT OF CONDUIT, FURNISHED AND INSTALLED WILL INCLUDE FURNISHING ALL HARDWARE AND MATERIALS AS SPECIFIED ON THE TABULATION SHEET (L-3 AND L-4). ALL LABOR, TRENCHING, BACK FILLING, AND RESTORATION MATERIALS NECESSARY FOR A COMPLETE AND ACCEPTED INSTALLATION. CONSIDER THE LOCATIONS OF CONDUIT AS SHOWN ON THE PLANS AS APPROXIMATE. CONSTRUCT CONDUIT RUNS AS STRAIGHT AS POSSIBLE AND OBTAIN THE ENGINEER'S APPROVAL OF ALL MAJOR DEVIATIONS IN CONDUIT LOCATIONS FROM THOSE SHOWN ON THE PLANS. UNDERGROUND CONDUITS ARE TO BE ADJUSTED TO AVOID UNDERGROUND UTILITIES AND SIDEWALKS. INCLUDES CONDUIT FOR MULTIPLE RUNS IN ONE TRENCH. LINEAR FOOTAGE SHOWN ON PLANS ARE FOR LENGTH OF TRENCH ONLY.

PAY ITEM NO. 633-1-123:  
FOC SHALL BE 96 STRAND SINGLE MODE FIBER WITH CORNING BRAND GLASS (ALTOS 8.3/125 LT DUCT /AERIAL .4/.3 DB/KM SMF28F). THIS IS AN ALL-DIELECTRIC, DRY FILLED LOOSE TUBE SINGLE MODE FOC.

PAY ITEM NO. 635-2-11A AND 635-2-12:  
PULL BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION (QUAZITE), HAVE ANSI TIER RATING OF T22 AND DESIGN LOAD RATING OF 22,500 LBS., NO EXCEPTIONS WILL BE PERMITTED. MINIMUM PULL BOX SIZE SHALL BE AS FOLLOWS:  
I. TRAFFIC SIGNAL AND STREET LIGHTING 17" X 30" X 12" - (PG1730BA12)  
II. FIBER OPTIC CABLE MID RUNS 24" X 36" X 24" - (PG2436BA24)  
III. FIBER OPTIC CABLE SPLICE VAULT - 30" X 60" X 36" - (PG3060BA36)

PULL BOX COVERS SHALL BE POLYMER CONCRETE CONSTRUCTION (QUAZITE), HAVE ANSI TIER RATING OF T22 AND DESIGN LOAD RATING OF 22,500 LBS., AND MARKED APPROPRIATELY, "TRAFFIC SIGNAL" OR "STREET LIGHTING", NO EXCEPTIONS WILL BE PERMITTED.  
I. 17" X 30" COVER - "TRAFFIC SIGNAL" - (PG1730HH0046), "STREET LIGHTING" - (PG1730HH0041)  
II. 24" X 36" COVER - "TRAFFIC SIGNAL" - (PG2436HH0046), "UTILITIES"  
III. 30" X 60" COVER 2 PIECE - "TRAFFIC SIGNAL" - (PG3060HH0046)

ALL PULL BOXES SHALL HAVE A MINIMUM OF SIX (6) INCHES BETWEEN OTHER PULL BOXES. ALL PULL BOXES SHALL HAVE A CONCRETE APRON; THE APRON SHALL BE MINIMUM 1-FOOT WIDE X 6 INCHES DEEP. APRON SHALL BE LEVEL TO EXISTING GRADE AND HAVE A FINISHED EDGE AND SURFACE. PULL BOXES SHALL NOT BE INCORPORATED INTO THE CABINET WORK PAD. ALL CONDUITS EXCEPT FOC CONDUIT SHALL BE PLUMBED, CENTERED AND NO LOWER/HIGHER THAN MIDPOINT IN THE PULL BOX.

PAY ITEM NO. 639-1-122 AND 715-7-12:  
ROADWAY STREET LIGHTING ELECTRIC SERVICE SHALL BE MOUNTED ON TWO (2) - EIGHT (8) INCH X EIGHT (8) INCH X TWELVE (12) FOOT CONCRETE SERVICE POLES. A 100 AMP 600 VAC RATED NEMA 3R NON-FUSIBLE SINGLE THROW SAFETY SWITCH DISCONNECT (SQUARE D - HU363RB) SHALL BE INSTALLED ON THE CONCRETE SERVICE POLES, ON THE LINESIDE OF THE METER SOCKET. ALL ROADWAY STREET LIGHTING ELECTRICAL SERVICES SHALL BE METERED. METER SOCKET SHALL BE A 200 AMP LEVER BYPASS NEMA 3R ENCLOSURE RATED FOR OUTDOOR USE (MILBANK UAP9551-X-QG-HSP). METER SOCKET SHALL BE INSTALLED ON THE LOAD SIDE OF SAFETY SWITCH DISCONNECT ON THE CONCRETE SERVICE POLES. ROADWAY STREET LIGHTING LOAD CENTER ENCLOSURE CABINET SHALL BE INSTALLED ON THE CONCRETE SERVICE POLES. ROADWAY STREET LIGHTING LOAD CENTER ENCLOSURE CABINET SHALL BE STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE AND APPROVED BY LEE COUNTY DOT TRAFFIC.

ROADWAY STREET LIGHTING LOAD CENTER WITH NEEDED COMPONENTS:  
I. SQUARE D NIGHT-MASTER LONG VERSION (8903-SQH63-V06)  
II. BUSSMANN FUSE BLOCK 2 POLE 30 AMP (RM60030-2CHR) ONE (1) PER EACH CIRCUIT (FOUR (4) CIRCUITS MAX PER LOAD CENTER) AND (1) 100A MAIN FUSE BUSSMAN MOD. FRS-R-100  
III. ONE (1) SQUARE D SPD 40KA 240/480V, 1PH, 3W SDSA4040 (MOUNTED INTERNALLY)  
IV. ONE (1) INTERMATIC PHOTOCONTROL RECEPTACLE MOD. K122  
V. ONE (1) INTERMATIC 480VAC TWIST LOCK PHOTO CELL (LC4535LA) (PHOTO CELL SHALL BE MOUNTED EXTERNALLY ON TOP RIGHT OF NIGHT-MASTER, WHEN FACING NIGHT-MASTER ACCESS DOOR)  
VI. ONE (1) DISTRIBUTION BLOCK, 2-POLE, 1-PRI, 12-SEC, ILSCO MOD. PDB-112-350-2

PAY ITEM NO. 715-1-12:  
SHALL INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE STANDARD PLANS. PAYMENT SHALL BE MADE ON LINEAR FOOT OF SINGLE CONDUCTOR. CONDUCTOR INSULATION SHALL BE THWN-2. USE NIGHTMASTER PART #D8903-SQH63-V06 AND REFER TO LEE COUNTY SPECIFICATIONS.

FP&L 240/480 VAC, SINGLE PHASE, THREE (3) WIRE:  
I. ALL LUMINAIRES SHALL HAVE THREE (3) #10 AWG (THHN/THWN-2) (2) BLACK, (1) GREEN WIRE.  
II. ALL WIRING FROM THE LOAD CENTER AND FROM POLE TO POLE SHALL HAVE THREE (3) #6 AWG OR GREATER (THHN/THWN-2) ALUMINUM WIRE, (2) BLACK, (1) GREEN.

PAY ITEM NO. 715-4-14, 715-4-24P, 715-4-24S AND 715-500-1:  
EACH ROADWAY STREETLIGHT POLE SHALL HAVE THE FOLLOWING LOCATED IN THE T-BASE. (NOT IN PULL BOX):  
I. TWO (2) BREAKAWAY FUSE HOLDER WITH LINESIDE TERMINAL HAVING ALUMINUM CONDUCTORS ON THE LINE SIDE TERMINAL (BUSSMANN - HEB-AW-RYA) FOR EACH LUMINAIRE AND SHALL BE LOCATED IN THE HAND HOLE COMPARTMENT OR T-BASE.  
II. 480VAC SURGE ARRESTOR (ASCO MODEL 235 - 235480LF030AWSN0) OR (HESCO/RLS HE480BB) AND SHALL BE INSTALLED USING BUTT CRIMP CONNECTORS.

STREET LIGHT POLE ASSEMBLY SHALL BE GROUNDED USING A #6 AWG GREEN ALUMINUM WIRE FROM GROUND TO THE T-BASE GROUND TERMINAL LUG. ALL ROADWAY STREET LIGHTING POLES SHALL BE INSTALLED WITH A BREAKAWAY TRANSFORMER BASE. LEE COUNTY DOT TRAFFIC PREFERS HAPCO POLE PRODUCTS. ALL ROADWAY STREETLIGHT POLES SHALL BE ALUMINUM. LEE COUNTY DOT TRAFFIC PREFERS HAPCO POLE PRODUCTS. ALL ROADWAY STREETLIGHT ARMS SHALL BE ALUMINUM AND CLAMP-ON. LEE COUNTY DOT TRAFFIC PREFERS HAPCO POLE PRODUCTS. ALL ROADWAY STREET LIGHTING SHALL HAVE A MAXIMUM LUMINAIRE HEIGHT OF FORTY FIVE (45) FEET. HOLOPHANE MONGOOSE LED MEDIUM P7, 3000K CCT, WIDE ROADWAY, WITH FIELD ADJUSTABLE OUTPUT (MGLEDM-P7-30K-480-WR-VH-GRSD-AO-US-HSS)

PAY ITEM NO. 715-4-24P:  
COST OF PILASTER SPREAD FOOTER IS INCLUDED WITHIN THE COST OF THE ROADWAY GRAVITY WALL. PAY ITEM TO INCLUDE COST OF FURNISH & INSTALL OF POLE AND FIXTURE ONLY.

PAY ITEM NO. 715-4-24S:  
LIGHT POLES INCLUDED WITHIN THIS PAY ITEM ARE ANTICIPATED TO REQUIRE A SPREAD FOOTER. THESE MAY BE SWAPPED TO A STANDARD FOUNDATION WITH COUNTY APPROVAL AT THE CONTRACT RATES. CONTRACTOR TO VERIFY PRIOR TO ORDERING.

PAY ITEM NO. 715-1-40 & 715-4-60:  
RELOCATION COST TO INCLUDE ALL ITEMS FOR COMPLETE RELOCATION, INCLUDING CONDUIT, PULL BOXES, AND CONDUCTORS.

| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | PAY ITEM NOTES | SHEET NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|----------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                | L-6       |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                |           |
|           |             |      |             |                                                                                                                                                                                                             |                                                         |        |                |                |           |

POLE DATA

| POLE NO. | CIRCUIT | STATION   | DIST .<br>OR ARM | LUMINAIRE<br>WATTAGE | MOUNTING<br>HEIGHT | POLE SETBACK | PAY ITEM  |
|----------|---------|-----------|------------------|----------------------|--------------------|--------------|-----------|
| 100      | A-1     | 796+74.00 | 0                | 255                  | 45'                | 58.55'       | 715-4-14  |
| 101      | A-3     | 798+04.00 | 0                | 255                  | 45'                | 57.72'       | 715-4-14  |
| 102      | A-1     | 799+04.00 | 0                | 255                  | 45'                | 55.31'       | 715-4-14  |
| 103      | A-3     | 800+04.00 | 0                | 255                  | 45'                | 66.90'       | 715-4-14  |
| 104      | A-1     | 801+04.00 | 0                | 255                  | 45'                | 52.49'       | 715-4-24S |
| 105      | A-3     | 802+04.00 | 0                | 255                  | 45'                | 64.08'       | 715-4-24S |
| 106      | A-1     | 803+24.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 107      | A-3     | 804+04.00 | 0                | 255                  | 35'                | 64.00'       | 715-4-817 |
| 108      | A-1     | 805+11.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 109      | A-3     | 806+04.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 110      | A-1     | 807+04.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 111      | A-3     | 808+04.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 112      | A-1     | 809+04.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 113      | A-3     | 810+04.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 114      | A-1     | 811+04.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 115      | A-3     | 812+04.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 116      | A-1     | 813+04.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 117      | A-3     | 814+04.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 118      | A-1     | 815+11.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 119      | A-4     | 816+04.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 120      | A-2     | 817+04.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 121      | A-4     | 818+29.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 122      | A-2     | 819+26.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 123      | A-4     | 820+54.00 | 0                | 255                  | 45'                | 63.00'       | 715-4-24S |
| 124      | A-2     | 821+66.50 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 125      | A-4     | 822+79.00 | 0                | 255                  | 45'                | 63.00'       | 715-4-24S |
| 126      | A-2     | 823+91.50 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 127      | A-4     | 825+04.00 | 0                | 255                  | 45'                | 63.00'       | 715-4-24S |
| 128      | A-2     | 826+16.50 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 129      | A-4     | 827+70.00 | 0                | 255                  | 45'                | 62.00'       | 715-4-24S |
| 130      | A-2     | 828+29.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 131      | A-4     | 829+29.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 132      | A-2     | 830+29.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 133      | A-4     | 831+29.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 134      | A-2     | 832+41.50 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 135      | A-4     | 833+54.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 136      | B-1     | 834+66.50 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 137      | B-3     | 835+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-14  |
| 138      | B-1     | 836+79.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 139      | B-3     | 837+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 140      | B-1     | 838+79.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 141      | B-3     | 839+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 142      | B-1     | 840+79.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 143      | B-3     | 841+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 144      | B-1     | 842+79.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 145      | B-3     | 843+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 146      | B-1     | 844+79.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 147      | B-3     | 845+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 148      | B-1     | 846+79.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-24S |
| 149      | B-3     | 847+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 150      | B-1     | 848+72.00 | 0                | 255                  | 45'                | 50.00'       | 715-4-14  |

| POLE NO. | CIRCUIT | STATION   | DIST .<br>OR ARM | LUMINAIRE<br>WATTAGE | MOUNTING<br>HEIGHT | POLE SETBACK | PAY ITEM  |
|----------|---------|-----------|------------------|----------------------|--------------------|--------------|-----------|
| 151      | B-3     | 849+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 152      | B-1     | 850+79.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 153      | B-3     | 851+79.00 | 0                | 255                  | 45'                | 64.00'       | 715-4-24S |
| 154      | B-1     | 852+79.00 | 0                | 255                  | 45'                | 49.33'       | 715-4-24P |
| 155      | B-3     | 853+79.00 | 0                | 255                  | 45'                | 56.00'       | 715-4-14  |
| 156      | B-2     | 854+79.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 157      | B-4     | 855+79.00 | 0                | 255                  | 45'                | 56.00'       | 715-4-14  |
| 158      | B-2     | 856+79.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 159      | B-4     | 857+79.00 | 0                | 255                  | 45'                | 56.00'       | 715-4-14  |
| 160      | B-2     | 858+79.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 161      | B-4     | 859+79.00 | 0                | 255                  | 45'                | 56.00'       | 715-4-14  |
| 162      | B-2     | 860+79.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 163      | B-4     | 861+79.00 | 0                | 255                  | 45'                | 56.00'       | 715-4-14  |
| 164      | B-2     | 862+79.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 165      | B-4     | 863+79.00 | 0                | 255                  | 45'                | 56.00'       | 715-4-14  |
| 166      | B-2     | 864+79.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 167      | B-4     | 865+79.00 | 0                | 255                  | 45'                | 56.00'       | 715-4-14  |
| 168      | B-2     | 866+49.00 | 0                | 255                  | 45'                | 49.34'       | 715-4-24P |
| 169      | B-4     | 867+36.50 | 0                | 255                  | 45'                | 56.00'       | 715-4-24S |
| 170      | B-2     | 868+54.00 | 0                | 255                  | 45'                | 59.00'       | 715-4-14  |
| 171      | B-4     | 869+79.00 | 0                | 255                  | 45'                | 44.16'       | 715-4-14  |
| 172      | B-2     | 870+79.00 | 0                | 255                  | 45'                | 69.00'       | 715-4-24S |
| 173      | B-4     | 871+79.00 | 0                | 255                  | 45'                | 36.51'       | 715-4-14  |
| 174      | B-2     | 872+79.00 | 0                | 255                  | 45'                | 65.51'       | 715-4-24S |

POLE DATA NOTES:

715-4-24P DENOTES BARRIER WALL MOUNTED POLE

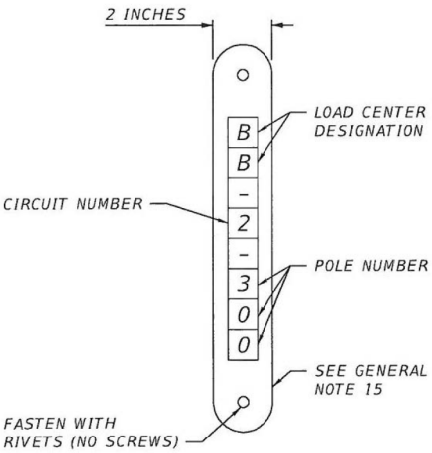
715-4-24S DENOTES ANTICIPATED SPREAD FOOTER

POLE SETBACK REFERS TO DISTANCE TO CENTER OF POLE UP RIGHT.

| REVISIONS |             |  |      | <div><div>JOHNSON</div><div>ENGINEERING</div><div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div></div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |  |          | POLE DATA | SHEET NO. |                |
|-----------|-------------|--|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--|----------|-----------|-----------|----------------|
| DATE      | DESCRIPTION |  | DATE |                                                                                                                                                                                                                             | DESCRIPTION                                             |  | ROAD NO. |           | COUNTY    | JEI PROJECT ID |
|           |             |  |      |                                                                                                                                                                                                                             |                                                         |  | C.R. 850 |           | LEE       | 20192030-000   |
|           |             |  |      |                                                                                                                                                                                                                             |                                                         |  |          |           |           |                |

CONVENTIONAL  
LIGHTING DESIGN CRITERIA

|                            |              |
|----------------------------|--------------|
| Average Initial Intensity  | Foot Candles |
| Uniformity Ratio Avg./Min. | 3:1 Or Less  |
| Max./Min.                  | 10:1 Or Less |



POLE IDENTIFICATION TAG DETAIL  
N.T.S.

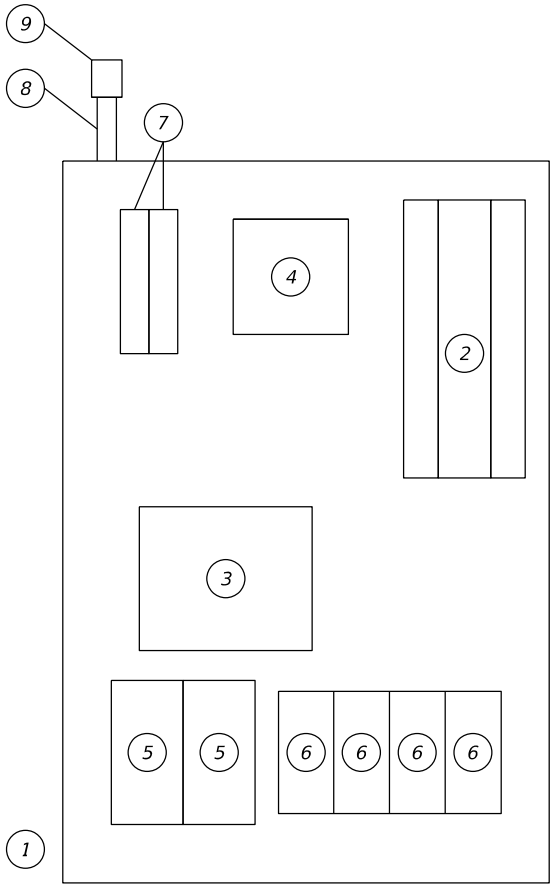
LEGEND

| SYMBOLS | DESCRIPTION                                                                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Holophane Mongoose LED Medium P7, 3000K CCT, Wide Roadway, with Field adjustable output (MGLEDM-P7-30K-480-WR-VH-GRSD-A0-US-HSS). Designed for Type II distribution with zero tilt. Pole mounting height 45 ft with housing side shields and uplight skirt. |
|         | Existing pole and luminaire.                                                                                                                                                                                                                                |
|         | 2" Schedule 40 PVC conduit with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) 6 AWG aluminum bond conductor (TW green insulation) inside conduit with other conductors.                                   |
|         | 2" Schedule 40 PVC conduit directional bored with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) 6 AWG aluminum bond conductor (TW green insulation) inside conduit with other conductors.                 |
|         | 1-1/4" SDR 13.5 poly conduit, 4 runs:<br>1-BLUE<br>1-Orange w/ locate wire<br>1 Green spare<br>1-Yellow                                                                                                                                                     |
|         | 4" HDPE (ORANGE) - LEE COUNTY UTILITIES                                                                                                                                                                                                                     |
|         | Pull box. For specifications see Section 635-001 of Standard Specifications For Road And Bridge Construction.                                                                                                                                               |
|         | Distribution point.                                                                                                                                                                                                                                         |

| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | POLE DATA AND LEGEND | SHEET NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|----------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                      | L-8       |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                      |           |

| CIRCUIT DATA - EAST SEGMENT |         |                        |         |                  |                |                   |                   |
|-----------------------------|---------|------------------------|---------|------------------|----------------|-------------------|-------------------|
| LOAD CENTER                 | CIRCUIT | OUTPUT VOLTAGE (VOLTS) | PHASE   | BRANCH FUSE SIZE | MAIN FUSE SIZE | DEMAND LOAD (KVA) | DESIGN LOAD (KVA) |
| A                           | A-1     | 480V                   | 1PH, 3W | 30A/2P           | 100A,2P        | 3.4               | 2.7               |
|                             | A-2     | 480V                   | 1PH, 3W | 30A/2P           |                | 2.6               | 2.1               |
|                             | A-3     | 480V                   | 1PH, 3W | 30A/2P           |                | 3.0               | 2.4               |
|                             | A-4     | 480V                   | 1PH, 3W | 30A/2P           |                | 3.0               | 2.4               |
| TOTAL                       |         |                        |         |                  |                | 11.9              | 9.5               |

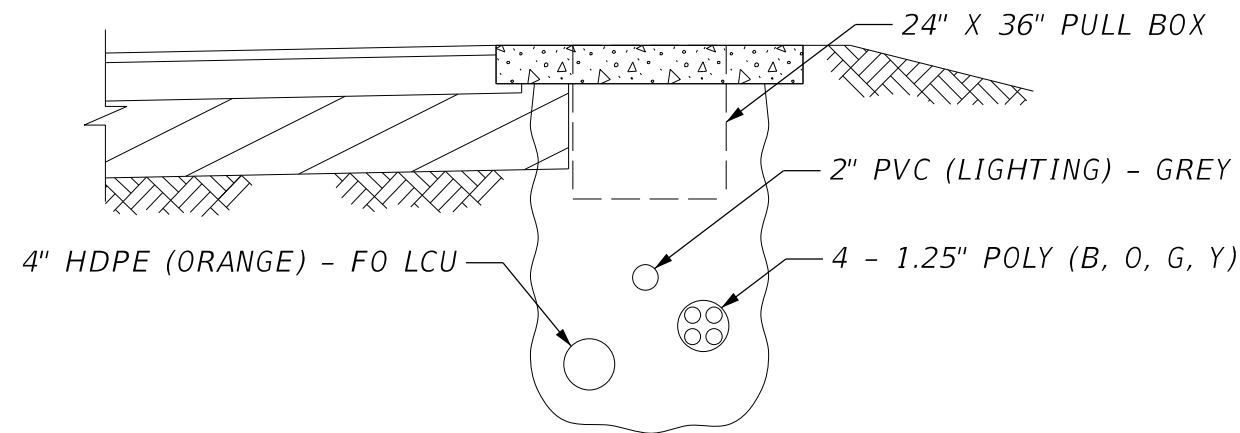
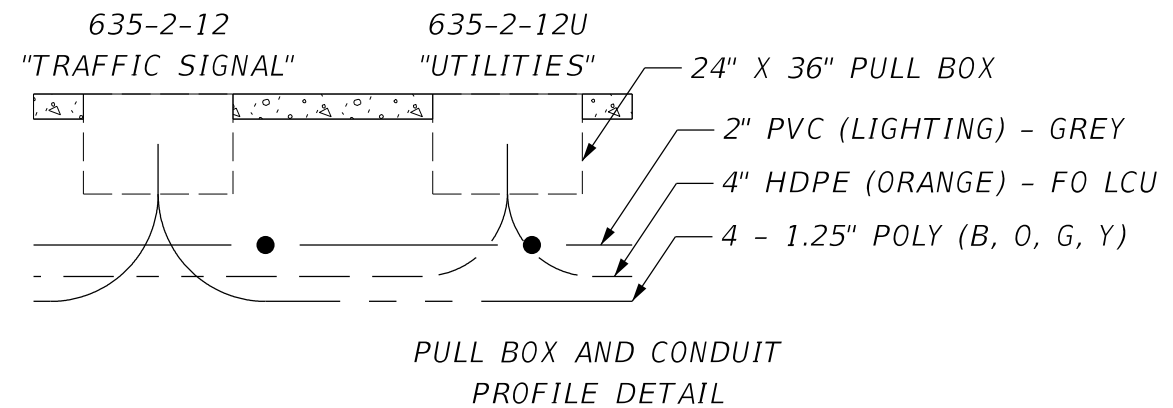
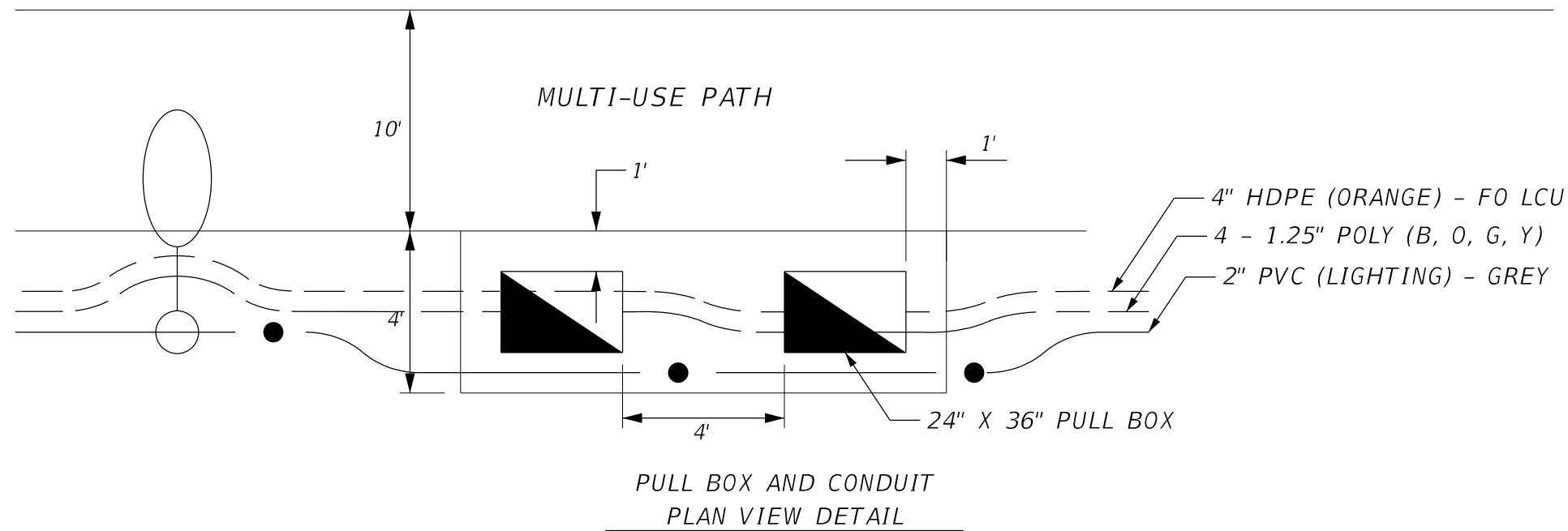
| CIRCUIT DATA - WEST SEGMENT |         |                        |         |                  |                |                   |                   |
|-----------------------------|---------|------------------------|---------|------------------|----------------|-------------------|-------------------|
| LOAD CENTER                 | CIRCUIT | OUTPUT VOLTAGE (VOLTS) | PHASE   | BRANCH FUSE SIZE | MAIN FUSE SIZE | DEMAND LOAD (KVA) | DESIGN LOAD (KVA) |
| B                           | B-1     | 480V                   | 1PH, 3W | 30A/2P           | 100A,2P        | 3.4               | 2.7               |
|                             | B-2     | 480V                   | 1PH, 3W | 30A/2P           |                | 3.4               | 2.7               |
|                             | B-3     | 480V                   | 1PH, 3W | 30A/2P           |                | 3.4               | 2.7               |
|                             | B-4     | 480V                   | 1PH, 3W | 30A/2P           |                | 2.6               | 2.1               |
| TOTAL                       |         |                        |         |                  |                | 12.8              | 10.2              |



| ITEM # | DESCRIPTION                      | MANUF.         | PART #            |
|--------|----------------------------------|----------------|-------------------|
| 1      | LOAD CENTER CABINET              | SQUARE D       | 8903-SQH63-V06    |
| 2      | MAIN DISCONNECT                  | SQUARE D       | INCLUDED W/ITEM 1 |
| 2A     | 100 AMP FUSE FOR MAIN DISCONNECT | BUSSMANN/EATON | FRS-R-100         |
| 3      | CONTACTOR                        | SQUARE D       | INCLUDED W/ITEM 1 |
| 4      | SURGE PROTECTOR                  | SQUARE D       | SDSA3650          |
| 5      | DISTRIBUTION BLOCK               | ILSCO          | PDB-112-350-2     |
| 6      | FUSE BLOCKS                      | BUSSMANN/EATON | RM60030-2CHR      |
| 6A     | 30 AMP FUSE FOR SL CIRCUITS      | COOPER-BUSSMAN | FRS-R-30          |
| 7      | NEUTRAL BLOCKS                   | SQUARE D       | INCLUDED W/ITEM 1 |
| 8      | PHOTO CELL RECEPTACLE            | INTERMATIC     | K122              |
| 9      | PHOTO CELL                       | INTERMATIC     | LC4535LA          |

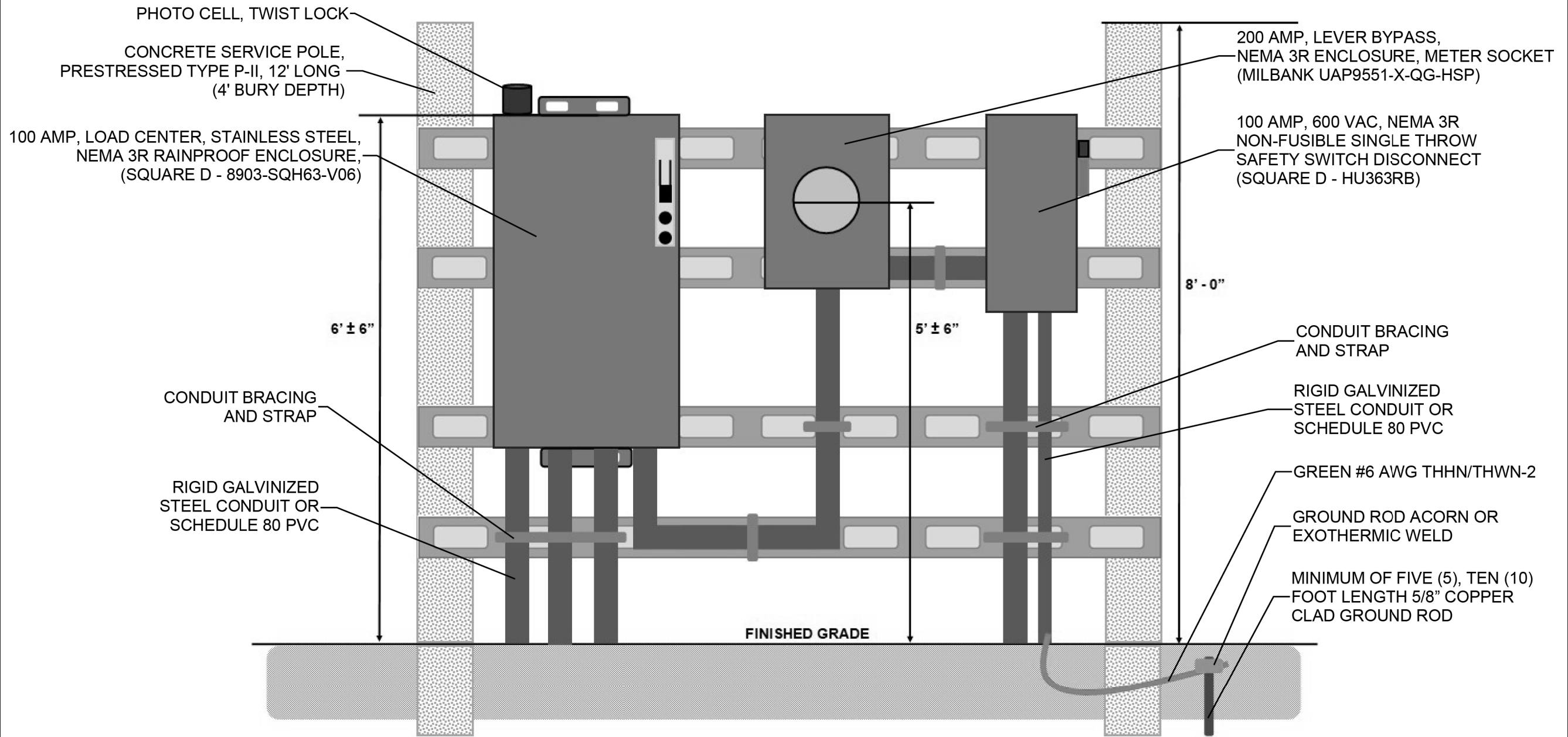
\* (20 AMP LOAD RATING)  
\* (100 AMP LOAD RATING)  
SERVICE WIRE - #2 AWG IN 2" GALVANIZED CONDUIT

| REVISIONS |             |  |      | <div>JOHNSON<br/>ENGINEERING<br/>WAYNE W. WRIGHT • P.E. LICENSE NO. 58220<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | SERVICE POINT DETAILS | SHEET NO. |
|-----------|-------------|--|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|-----------------------|-----------|
| DATE      | DESCRIPTION |  | DATE |                                                                                                                                                                                                       | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                       |           |
|           |             |  |      |                                                                                                                                                                                                       | C.R. 850                                                | LEE    | 20192030-000   |                       |           |
|           |             |  |      |                                                                                                                                                                                                       |                                                         |        |                |                       | L-9       |



| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | SPECIAL LIGHTING DETAILS | SHEET NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|--------------------------|-----------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                          | L-10      |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                          |           |
|           |             |      |             |                                                                                                                                                                                                             |                                                         |        |                |                          |           |





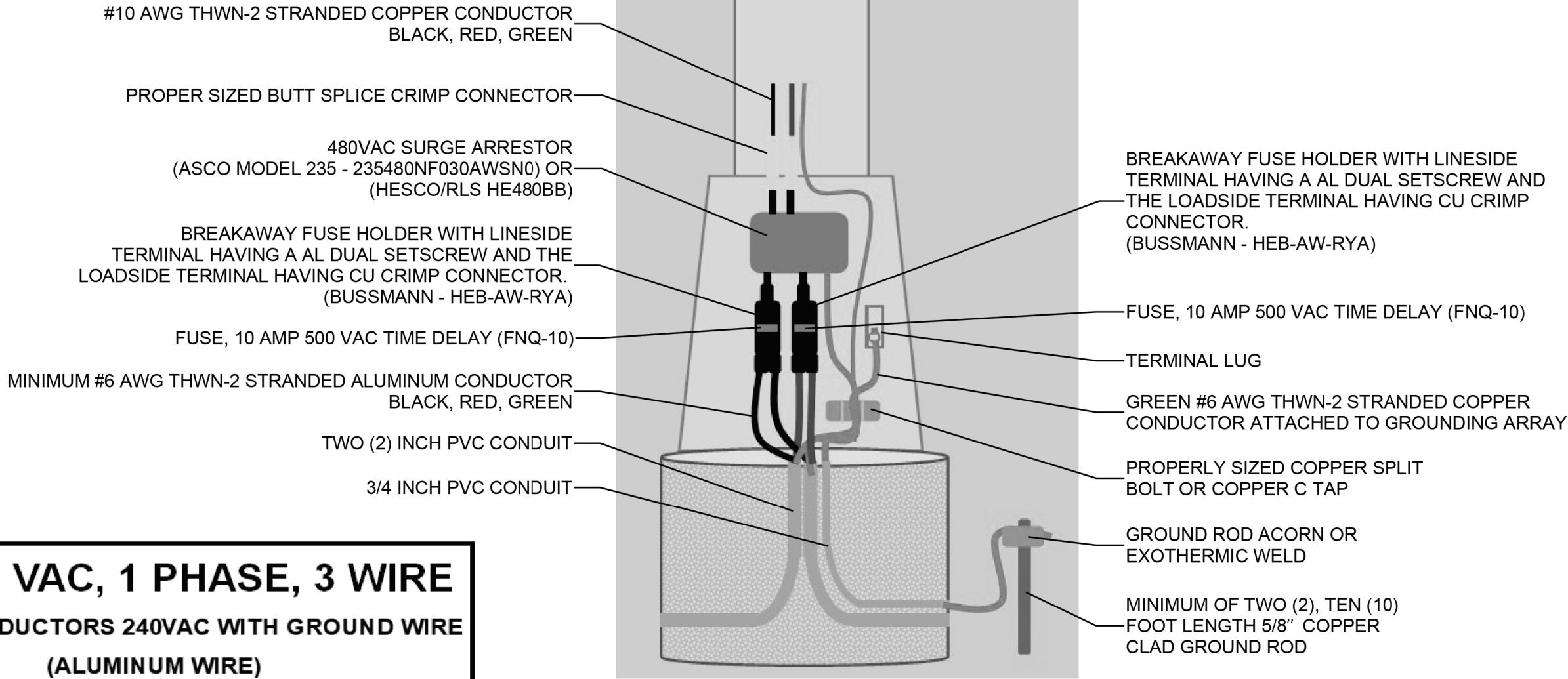
Within 150' of Electrical Service Feed

|                        |                                                                                   |                                                   |                 |                     |
|------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|-----------------|---------------------|
| REVISION<br>12/28/2022 | Street lighting Service Point Detail<br>Load Center, Secondary Voltage with Meter | Lee County Department of Transportation - Traffic | INDEX NO.<br>21 | SHEET NO.<br>1 of 1 |
|                        |                                                                                   | DRAWN BY: RYAN KIRSCH                             |                 |                     |

| REVISIONS |             |      |             | JOHNSON<br>ENGINEERING<br><small>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</small> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | SPECIAL LIGHTING DETAILS | SHEET NO.<br><br>L-10A |
|-----------|-------------|------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|--------------------------|------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                        | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                          |                        |
|           |             |      |             |                                                                                                                                                                                                        | C.R. 850                                                | LEE    | 20192030-000   |                          |                        |

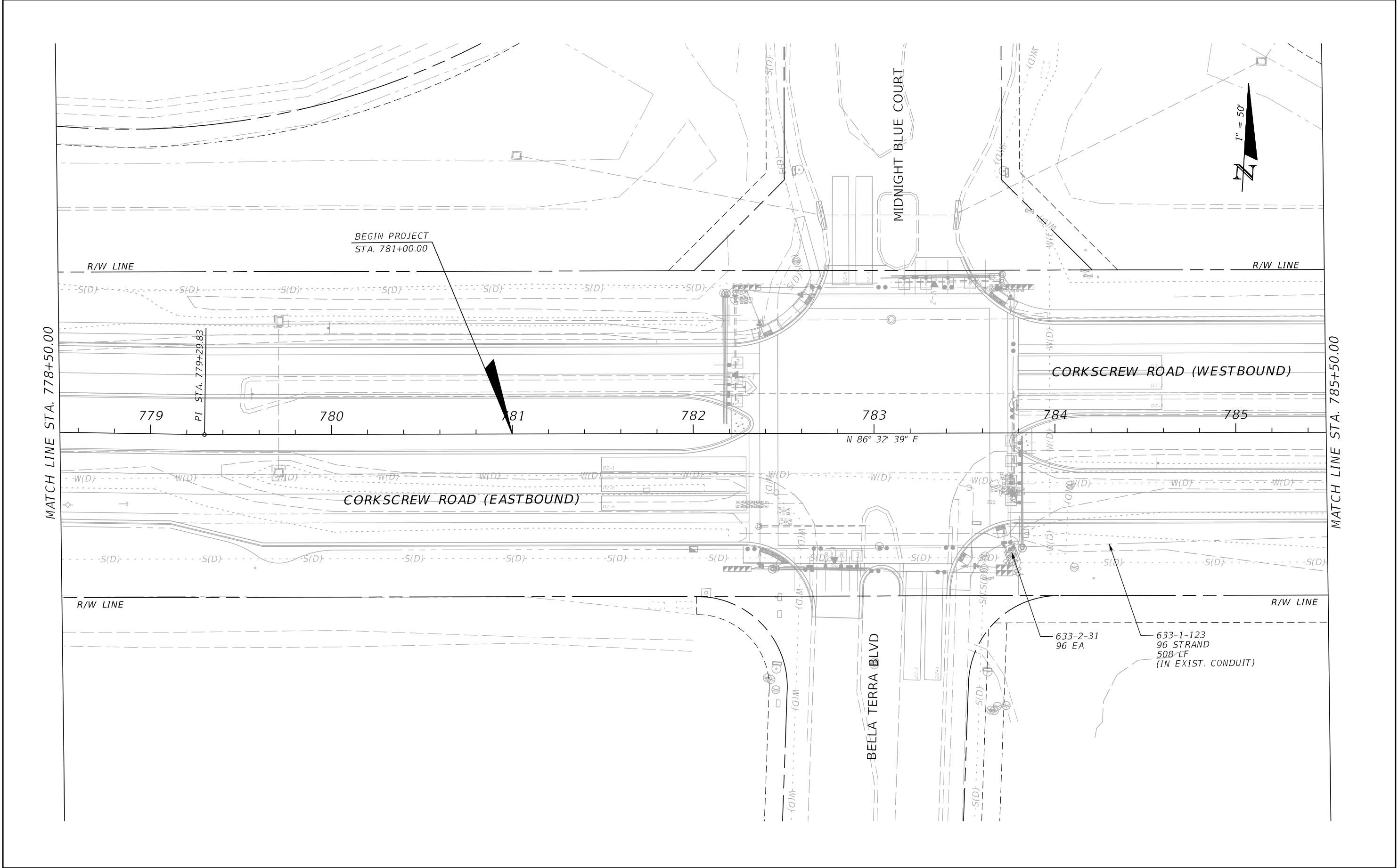
**240/480 VAC, 1 PHASE, 3 WIRE**  
**TWO (2) CONDUCTORS 240VAC WITH GROUND WIRE**  
**(ALUMINUM WIRE)**

|                        |                                                                         |                                                   |                 |           |
|------------------------|-------------------------------------------------------------------------|---------------------------------------------------|-----------------|-----------|
| REVISION<br>12/28/2022 | Streetlight Pole Wiring Detail<br>Streetlight T-Base wiring connections | Lee County Department of Transportation - Traffic | INDEX NO.<br>21 | SHEET NO. |
|                        |                                                                         | DRAWN BY: RYAN KIRSCH                             |                 |           |



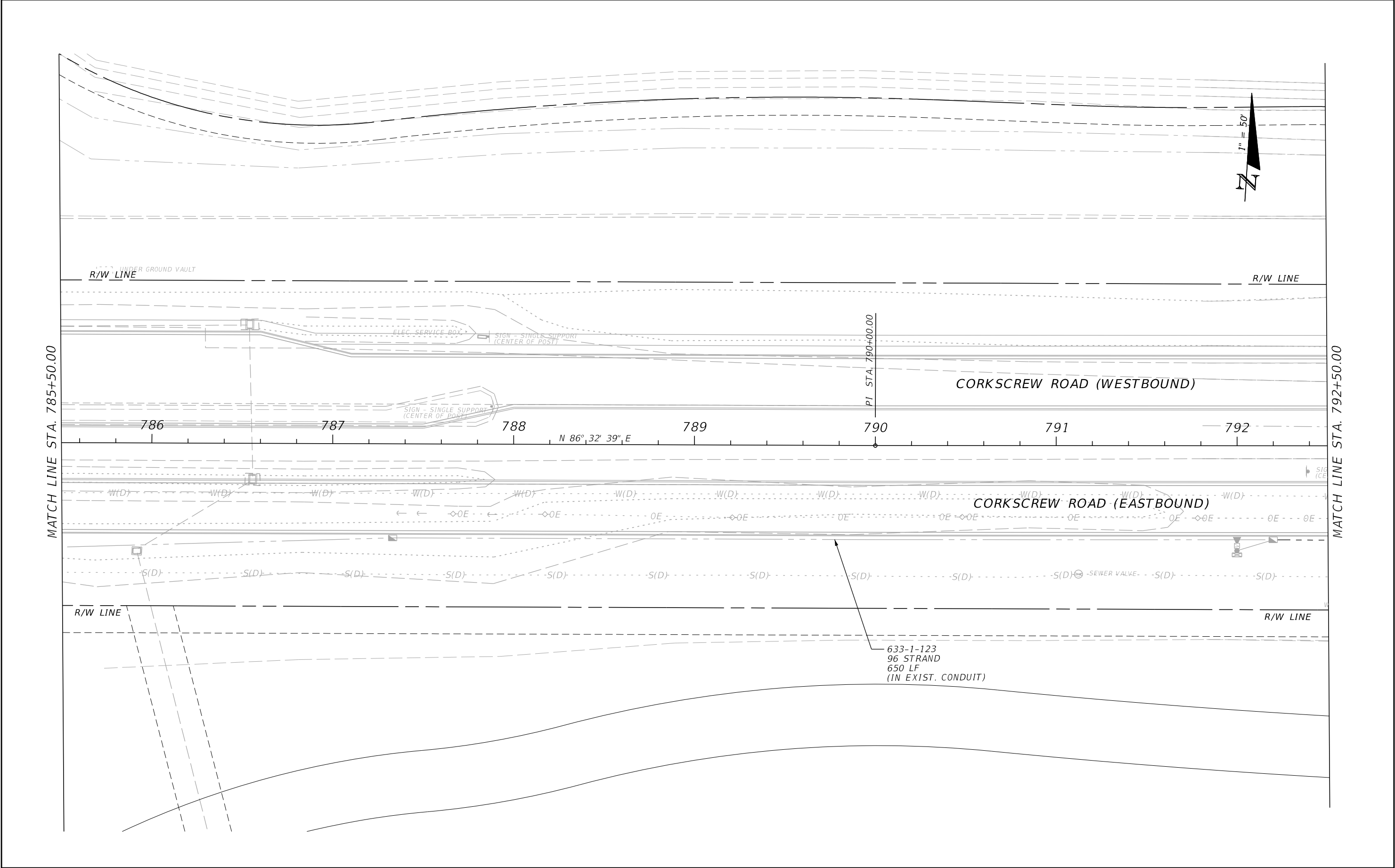
| REVISIONS |             |      |             | JOHNSON<br>ENGINEERING<br><small>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</small> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | SPECIAL LIGHTING DETAILS | SHEET NO.<br><br>L-10B |
|-----------|-------------|------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|--------------------------|------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                        | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                          |                        |
|           |             |      |             |                                                                                                                                                                                                        | C.R. 850                                                | LEE    | 20192030-000   |                          |                        |





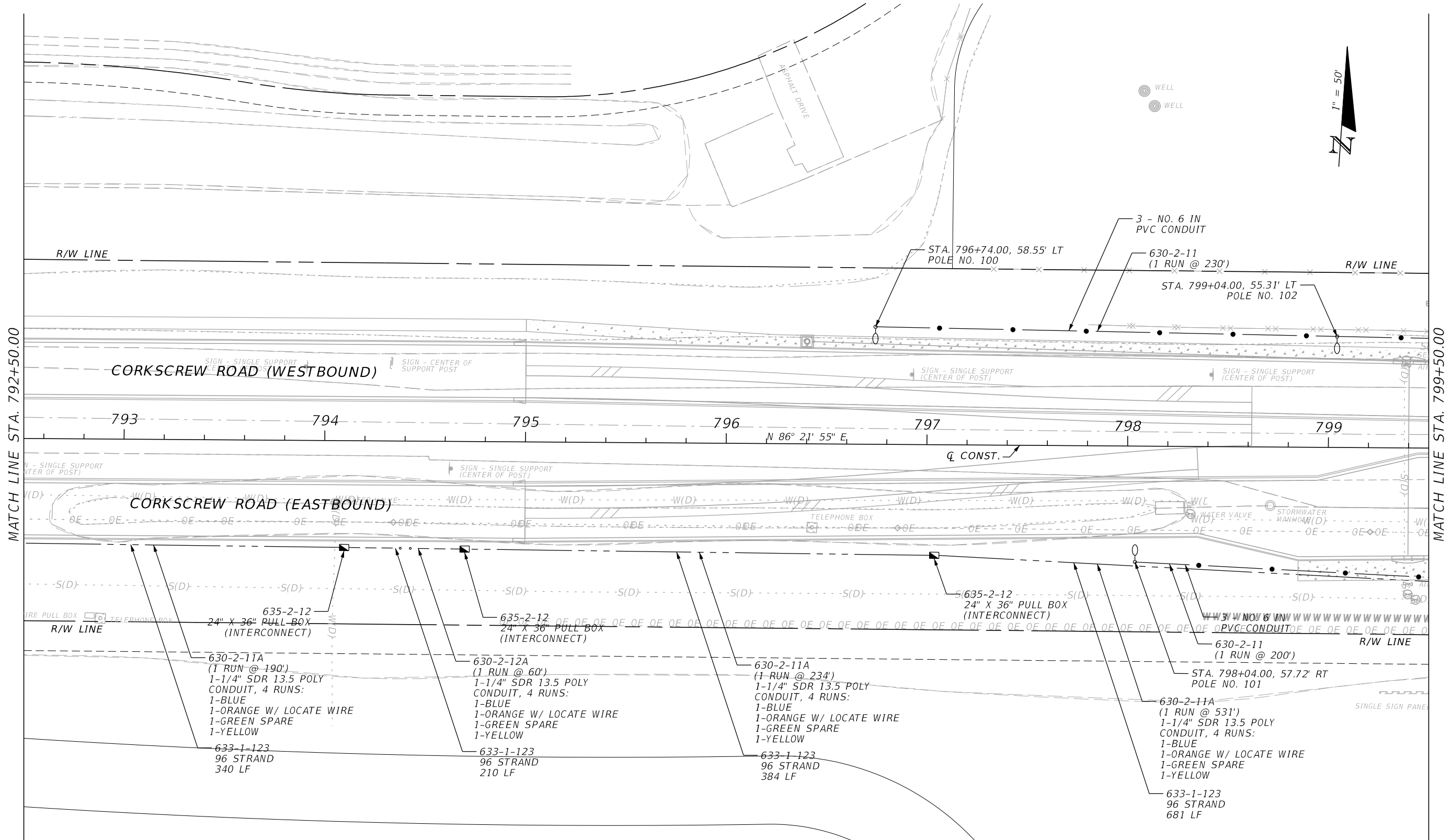
| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING<br/><small>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</small></div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 778+50.00 TO STA. 785+50.00 |  | SHEET<br>NO.<br><br>L-11 |
|-----------|-------------|------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                                     | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |  |                          |
|           |             |      |             |                                                                                                                                                                                                                     | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |  |                          |

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



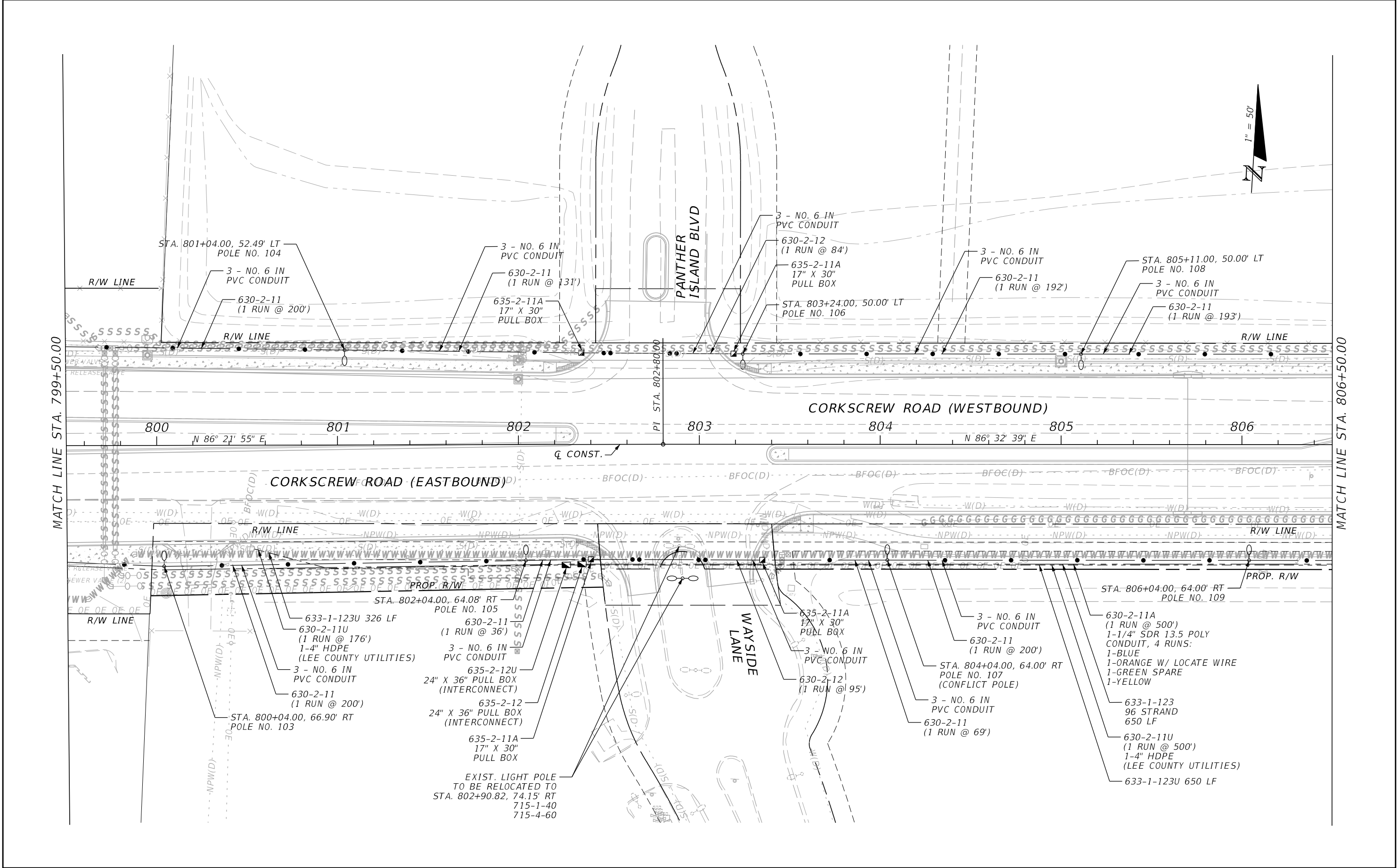
| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING<br/>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 785+50.00 TO STA. 792+50.00 |  | SHEET<br>NO.<br><br>L-12 |
|-----------|-------------|------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                      | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |  |                          |
|           |             |      |             |                                                                                                                                                                                                      | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |  |                          |

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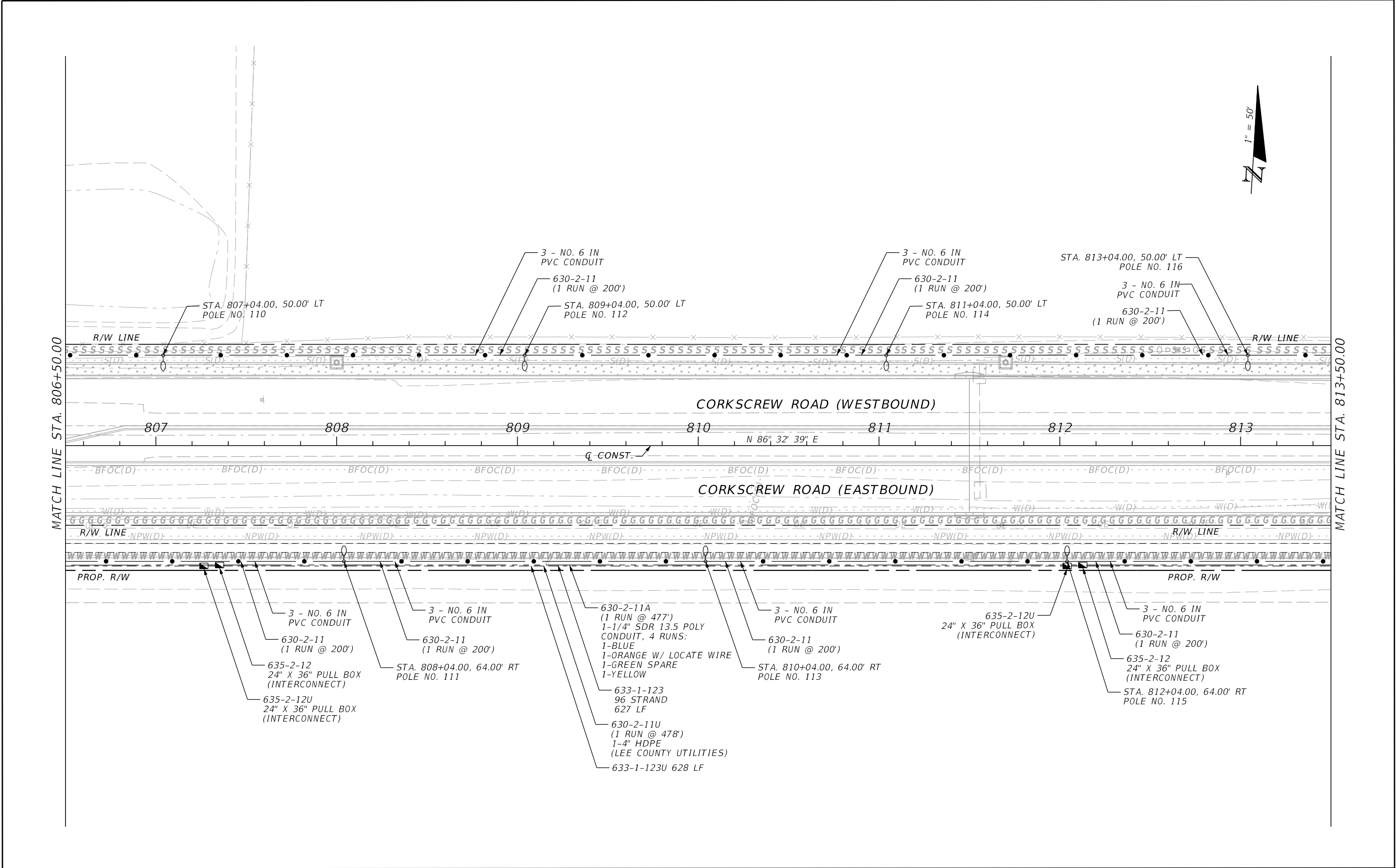
| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33902<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 792+50.00 TO STA. 799+50.00 |      | SHEET<br>NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|------|--------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |      |              |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                                                                     | L-13 |              |
|           |             |      |             |                                                                                                                                                                                                             |                                                         |        |                |                                                                     |      |              |

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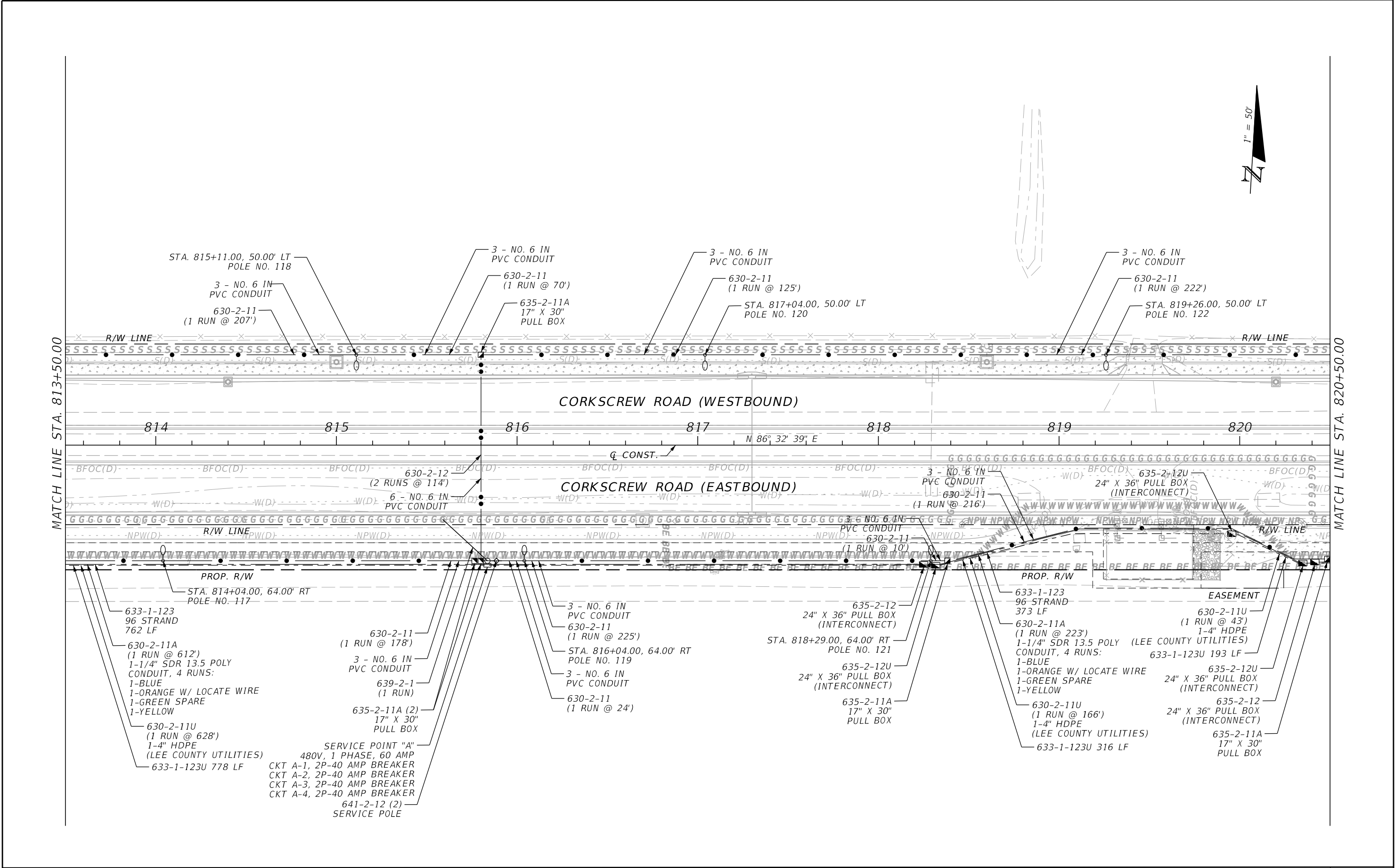


| REVISIONS |             |      |             | JOHNSON<br>ENGINEERING<br>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br>JOHNSON ENGINEERING, INC.<br>2122 JOHNSON STREET • FORT MYERS, FL 33901<br>CERTIFICATE OF AUTHORIZATION NO. 642 | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 799+50.00 TO STA. 806+50.00 | SHEET<br>NO.<br><br>L-14 |
|-----------|-------------|------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                      | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |                          |
|           |             |      |             |                                                                                                                                                                                      | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |                          |

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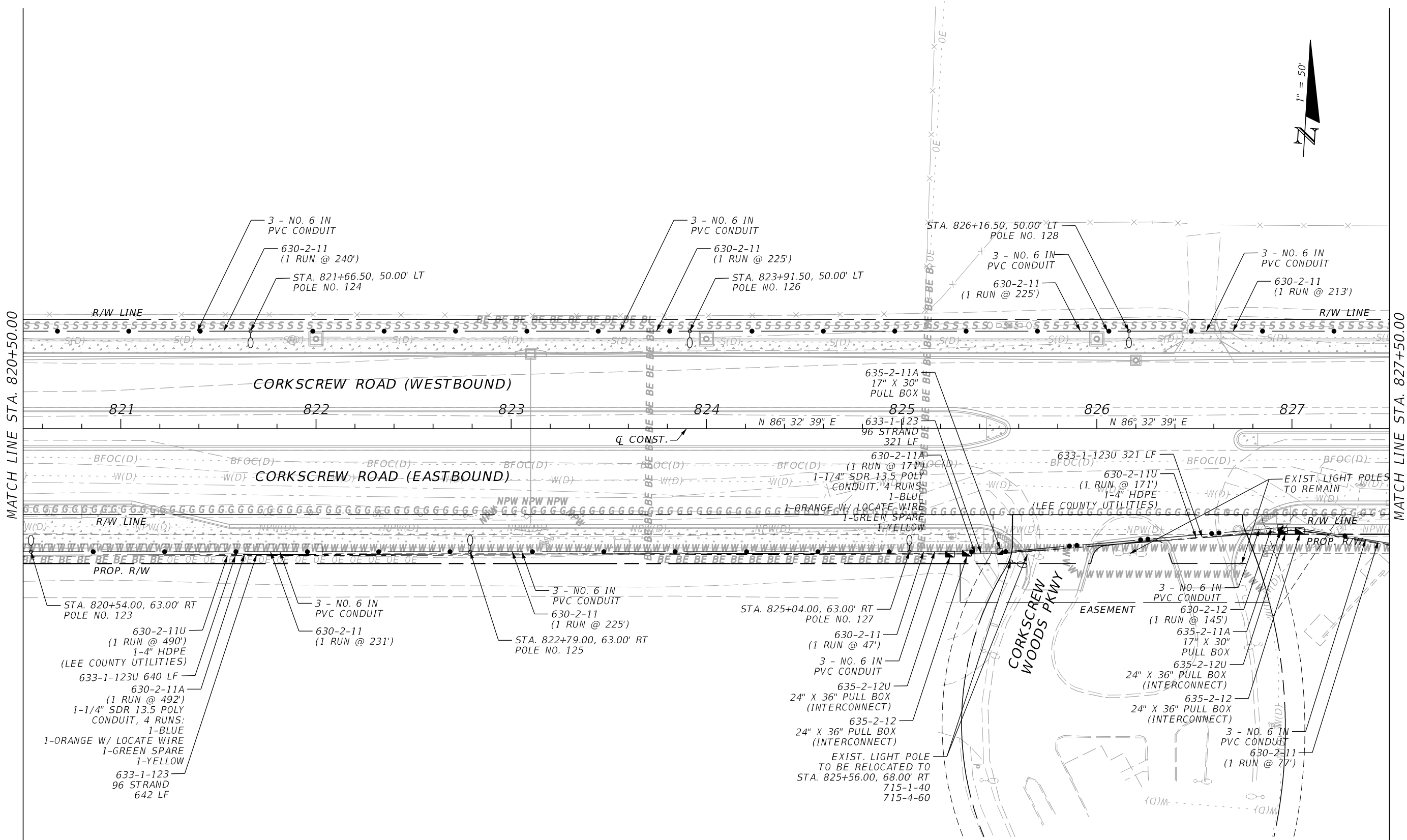
| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD  |      | SHEET<br>NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|----------------------------------|------|--------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID | STA. 806+50.00 TO STA. 813+50.00 | L-15 |              |
|           |             |      |             |                                                                                                                                                                                                             |                                                         |        |                |                                  |      |              |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                                  |      |              |



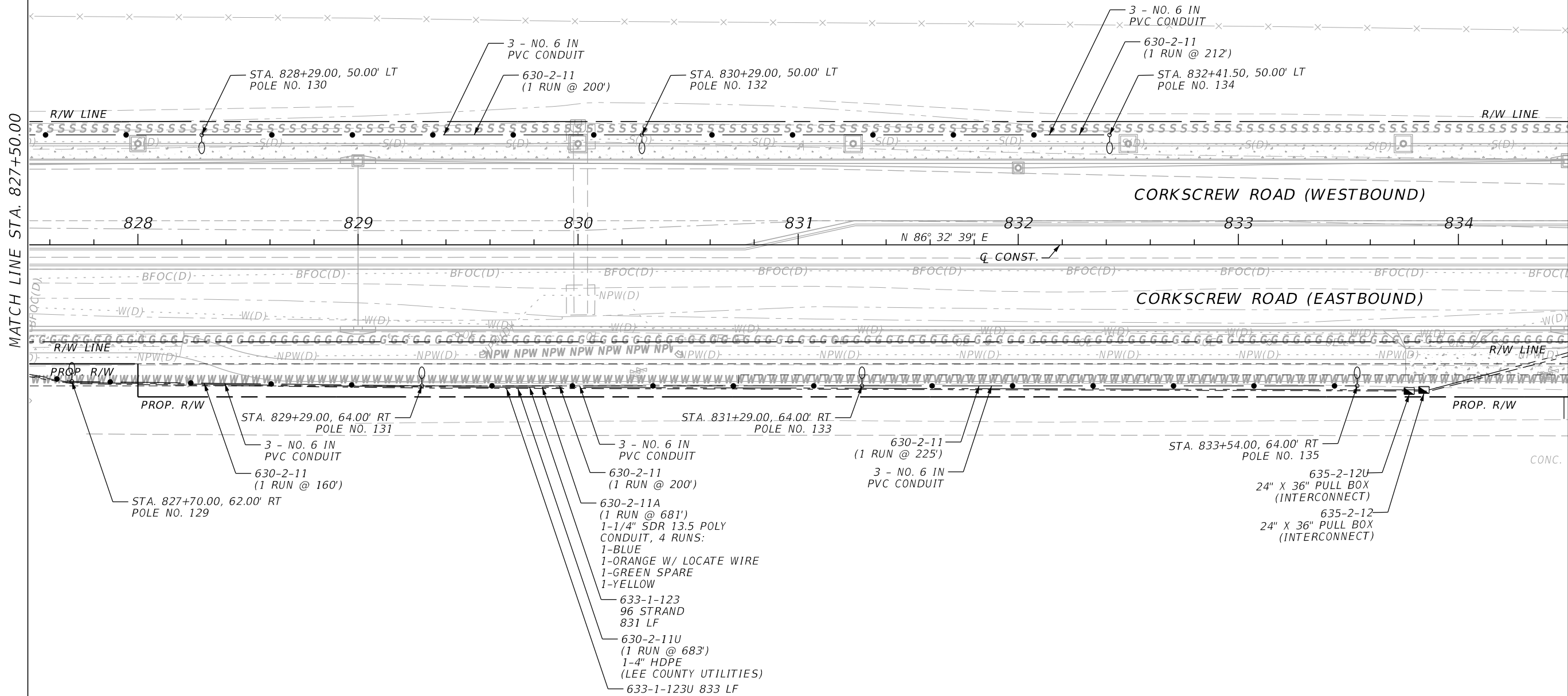
| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 813+50.00 TO STA. 820+50.00 |      | SHEET<br>NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|------|--------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |      |              |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |      |              |
|           |             |      |             |                                                                                                                                                                                                             |                                                         |        |                |                                                                     | L-16 |              |

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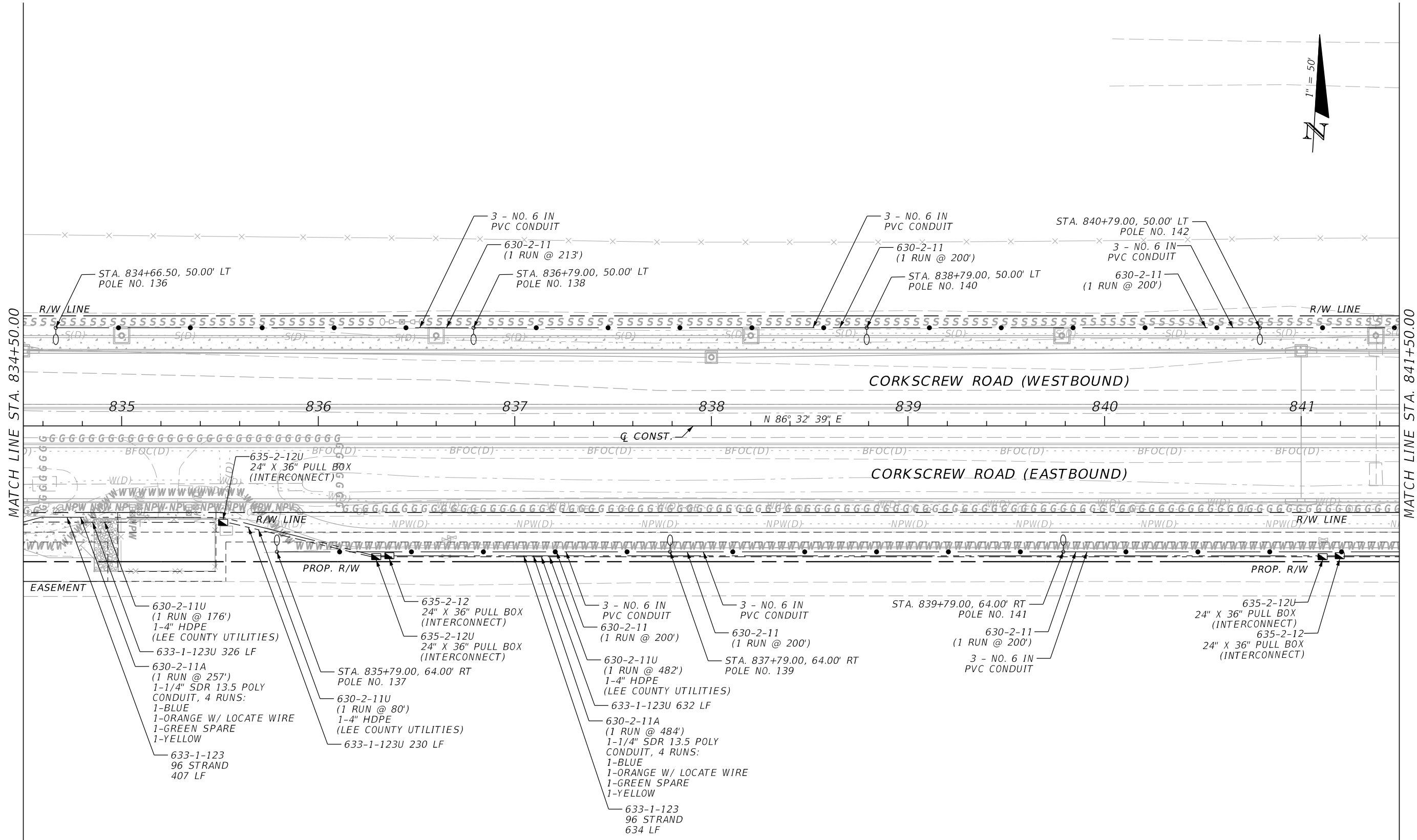


| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD  |  | SHEET<br>NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|----------------------------------|--|--------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID | STA. 820+50.00 TO STA. 827+50.00 |  | L-17         |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                                  |  |              |
|           |             |      |             |                                                                                                                                                                                                             |                                                         |        |                |                                  |  |              |

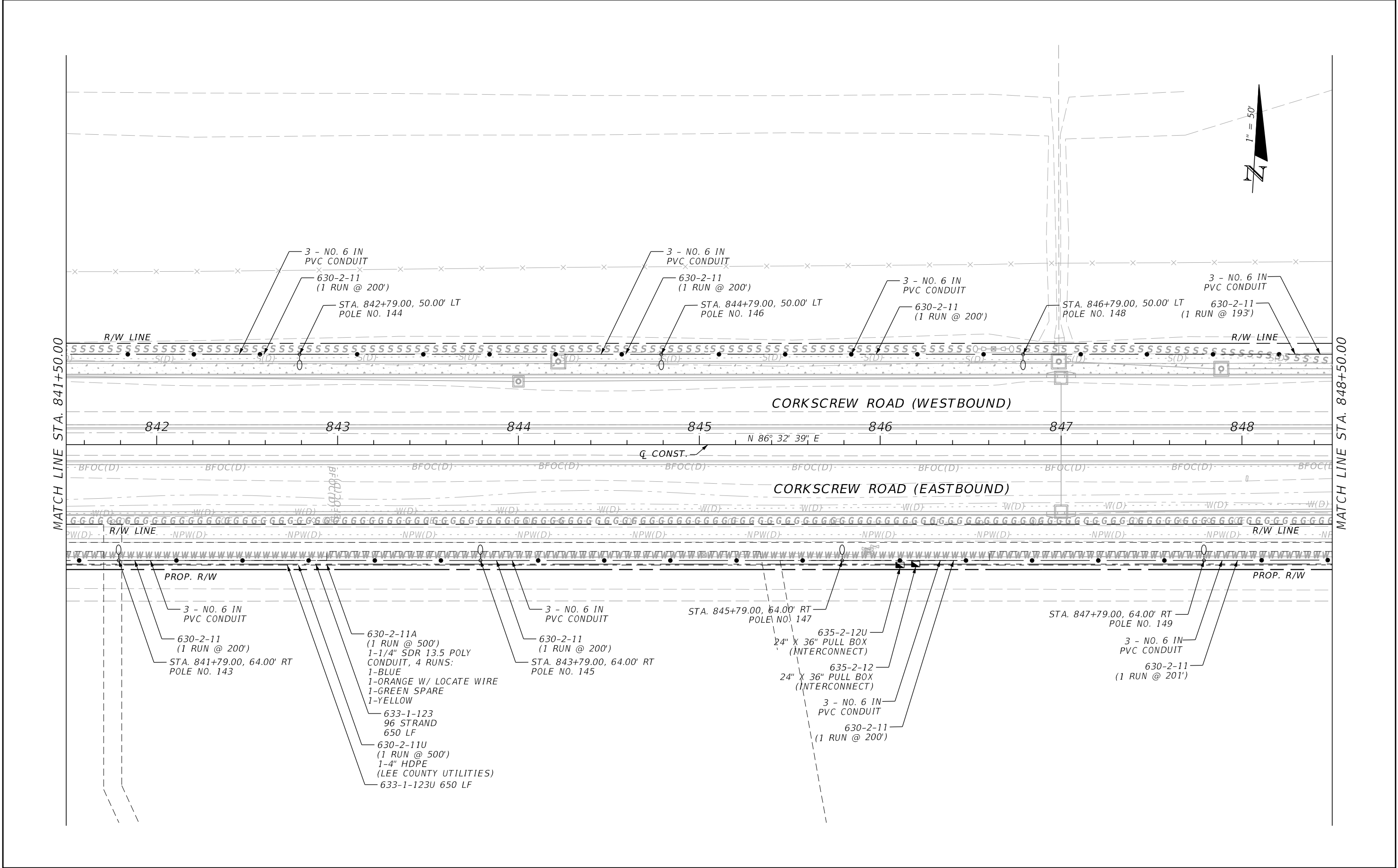


| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING<br/><small>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</small></div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 827+50.00 TO STA. 834+50.00 |  | SHEET<br>NO.<br><br>L-18 |
|-----------|-------------|------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                                     | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |  |                          |
|           |             |      |             |                                                                                                                                                                                                                     | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |  |                          |

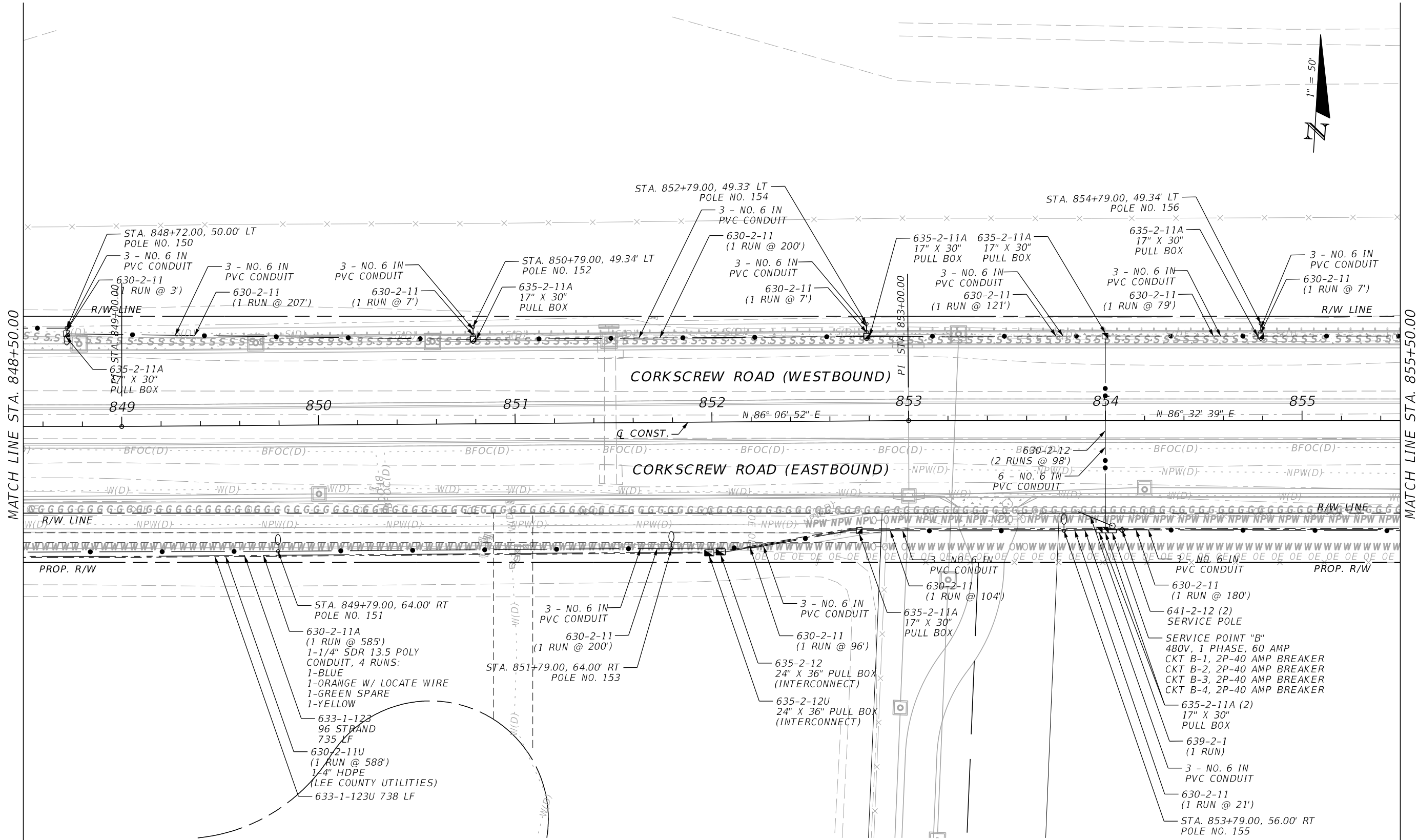




| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 834+50.00 TO STA. 841+50.00 |  | SHEET<br>NO.<br><br>L-19 |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |  |                          |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |  |                          |

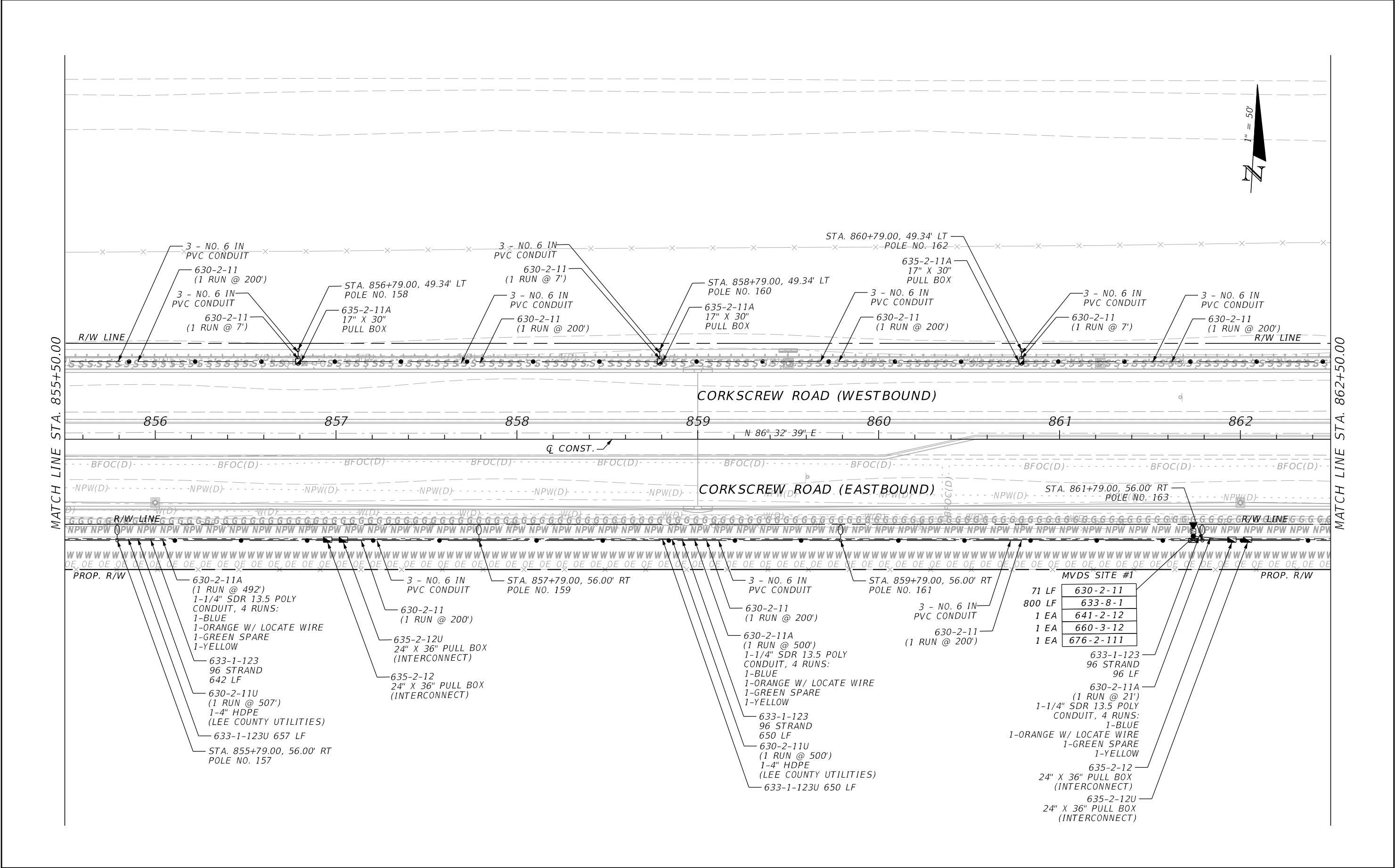


| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING<br/><small>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</small></div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 841+50.00 TO STA. 848+50.00 |  | SHEET<br>NO.<br><br>L-20 |
|-----------|-------------|------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                                     | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |  |                          |
|           |             |      |             |                                                                                                                                                                                                                     | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |  |                          |



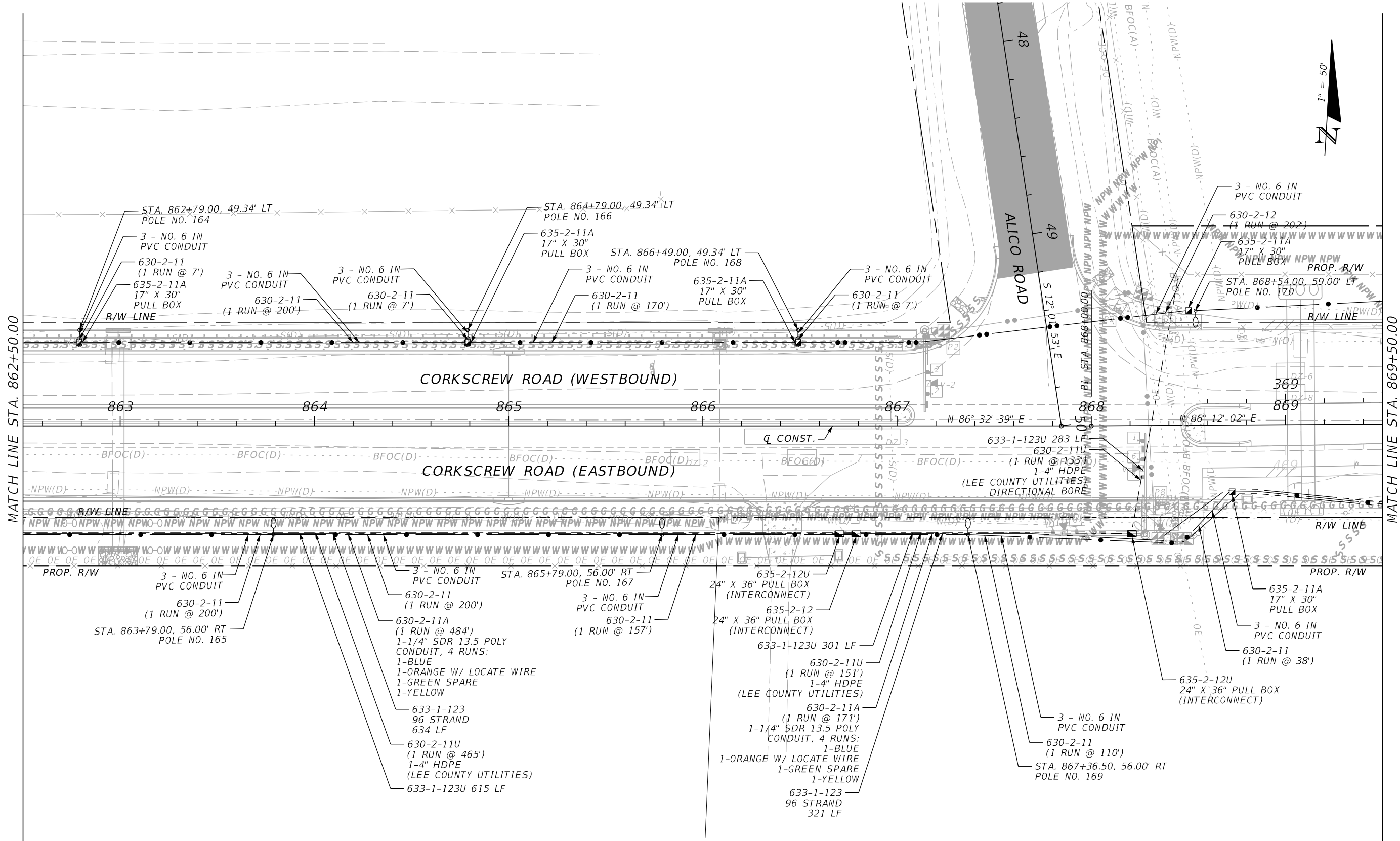
| REVISIONS |             |      |             | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |        |                | LIGHTING PLAN<br>CORKSCREW ROAD  |      | SHEET<br>NO. |
|-----------|-------------|------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|----------------------------------|------|--------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                             | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                  |      |              |
|           |             |      |             |                                                                                                                                                                                                             | C.R. 850                                                | LEE    | 20192030-000   | STA. 848+50.00 TO STA. 855+50.00 | L-21 |              |
|           |             |      |             |                                                                                                                                                                                                             |                                                         |        |                |                                  |      |              |

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| REVISIONS |             |  |      | <div>JOHNSON<br/>ENGINEERING</div> <div>LEAH M. HOLMES • P.E. LICENSE NO. 85359<br/>JOHNSON ENGINEERING, INC.<br/>2122 JOHNSON STREET • FORT MYERS, FL 33901<br/>CERTIFICATE OF AUTHORIZATION NO. 642</div> | LEE COUNTY PUBLIC WORKS<br>DEPARTMENT OF TRANSPORTATION |  |          | LIGHTING PLAN<br>CORKSCREW ROAD<br>STA. 855+50.00 TO STA. 862+50.00 |                | SHEET<br>NO. |
|-----------|-------------|--|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--|----------|---------------------------------------------------------------------|----------------|--------------|
| DATE      | DESCRIPTION |  | DATE |                                                                                                                                                                                                             | DESCRIPTION                                             |  | ROAD NO. | COUNTY                                                              | JEI PROJECT ID | L-22         |
|           |             |  |      |                                                                                                                                                                                                             |                                                         |  | C.R. 850 | LEE                                                                 | 20192030-000   |              |

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|-----------|-------------|------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------|----------------|---------------------------------------------------------------------|--|--------------------------|
| DATE      | DESCRIPTION | DATE | DESCRIPTION |                                                                                                                                                                                                                     | ROAD NO.                                                | COUNTY | JEI PROJECT ID |                                                                     |  |                          |
|           |             |      |             |                                                                                                                                                                                                                     | C.R. 850                                                | LEE    | 20192030-000   |                                                                     |  |                          |



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PILASTER GENERAL NOTES

DESIGN SPECIFICATIONS:

- 1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS (8TH EDITION) AND ALL SUBSEQUENT INTERIMS.
- 2. AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- 3. FDOT STRUCTURES MANUAL DATED JANUARY 2019 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS.

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS:

- 1. FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2019-20 STANDARD PLANS AND REVISED INDEX DRAWINGS, AND JULY 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

DESIGN METHODOLOGY:

- 1. LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD USING STRENGTH, SERVICE, AND EXTREME EVENT.

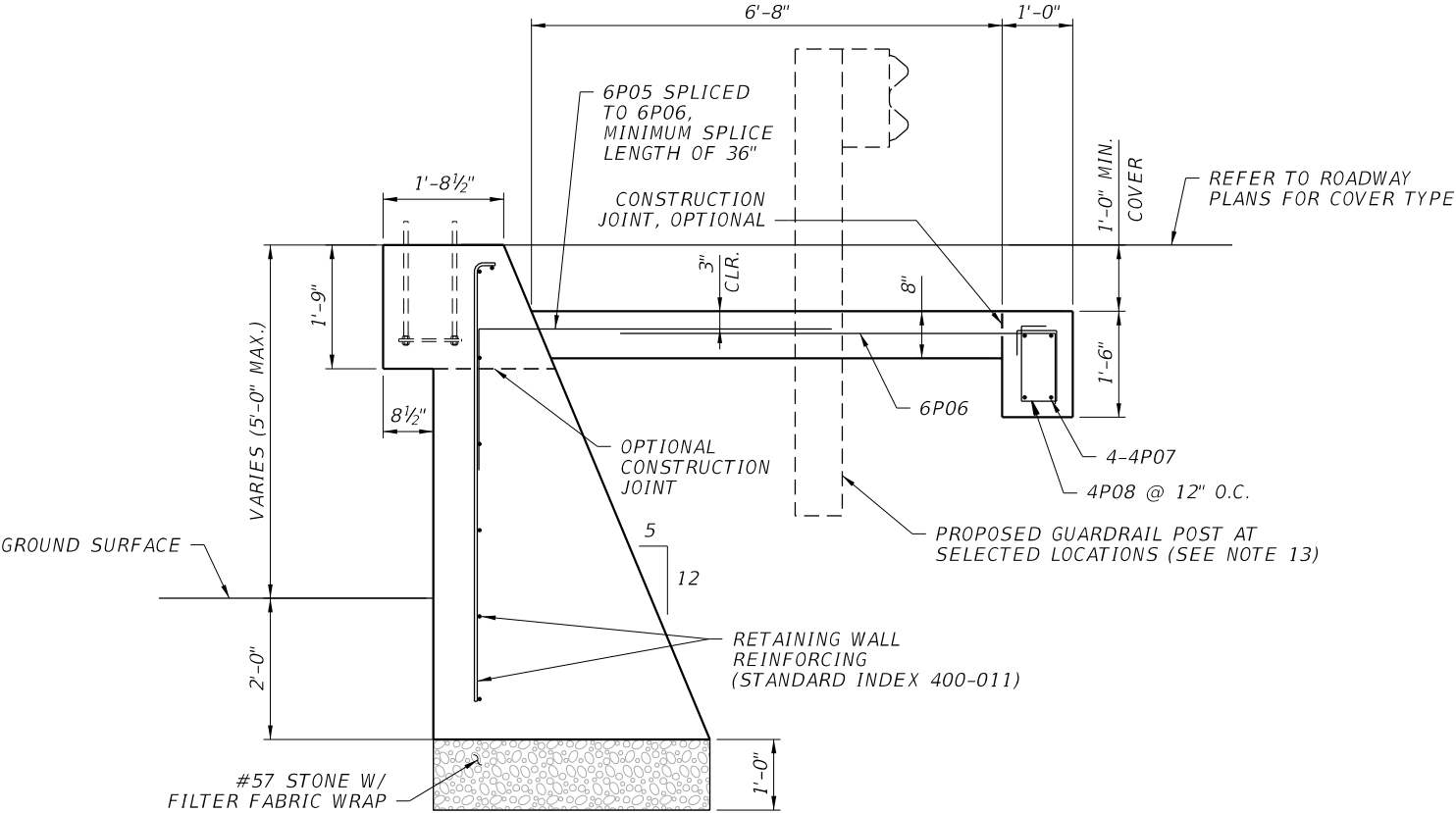
DESIGN LOADINGS:

- 1. THE FOLLOWING DESIGN LOADS ARE NOT TO BE EXCEEDED FOR THE PILASTER:
  - a. MOMENT IN LONGITUDINAL DIRECTION: 21 KIP-FT
  - b. MOMENT IN TRANSVERSE DIRECTION: 27 KIP-FT
  - c. TORSION: 0.14 KIP
  - d. AXIAL: 0.6 KIP
  - e. SHEAR IN LONGITUDINAL DIRECTION: 1.1 KIP
  - f. SHEAR IN TRANSVERSE DIRECTION: 1 KIP

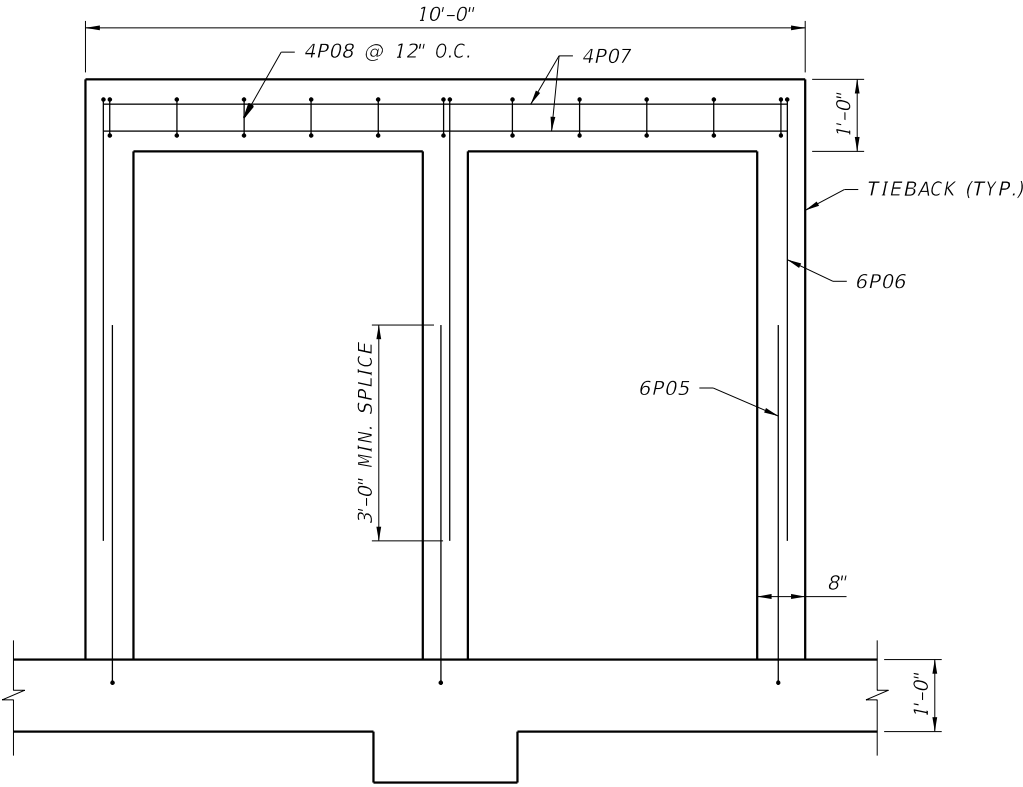
MATERIALS:

- 1. REINFORCING STEEL: GRADE 60 CARBON STEEL PER SPECIFICATIONS SECTION 931
- 2. GRAVITY WALL CONCRETE: PER FDOT INDEX 400-011 (3,000 PSI)
- 3. ANCHOR BOLTS AND ANCHOR PLATE:
  - a. ANCHOR BOLTS: 1 1/4" DIAMETER, ASTM F1554 GRADE 55
  - b. NUTS: ASTM A563 GRADE A, HEAVY HEX
  - c. WASHERS: ASTM F436 TYPE 1
  - d. ANCHOR PLATE: ASTM A709 (GRADE 36)
  - e. COATING: GALVANIZE ALL NUTS, BOLTS, WASHERS, IN ACCORDANCE WITH ASTM F2329, GALVANIZE PLATES IN ACCORDANCE WITH ASTM A123

- 1. FOR PAYMENT NOTES, SEE ROADWAY PLANS.
- 2. ANCHOR BOLTS SHALL BE ANCHORED WITH MANUFACTURER'S RECOMMENDED ANCHOR PLATE. EMBEDMENT SHALL BE AS SHOWN.
- 3. ANCHOR BOLTS SHALL BE GALVANIZED ACCORDING TO SECTION 460-30 OF THE GENERAL SPECIFICATIONS AND SHALL BE PROVIDED BY THE POLE MANUFACTURER. ANCHOR BOLTS SHALL EFFECTIVELY TRANSMIT THE LIGHT POLE LOADS TO THE SUPPORT AND FIT THE REINFORCING CAGE. CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, SHALL BE SUBMITTED TO THE E.O.R. FOR REVIEW AND APPROVAL SHOWING THAT THESE REQUIREMENTS HAVE BEEN MET.
- 4. PULL BOXES SHALL BE INSTALLED PER LIGHTING PLANS.
- 5. ALL CONDUIT SHALL BE SCHEDULE 40 PVC.
- 6. REINFORCING MAY BE SHIFTED SLIGHTLY TO AVOID CONFLICT WITH ANCHOR BOLTS.
- 7. TOP OF PILASTER SUPPORT BE FINISHED TO A TRULY LEVEL AREA.
- 8. ALL REINFORCING SHALL BE PLACED AT EQUAL SPACING AS SHOWN.
- 9. SPACE WALL JOINTS APPROPRIATELY SO THAT NO WALL JOINTS ARE CONSTRUCTED WITHIN 5' OF THE CENTERLINE OF THE POLE. ONLY THE CONSTRUCTION JOINTS SHOWN IN THE DETAILS ARE ALLOWED.
- 10. COMPACT FILL UNDER PROPOSED DEADMAN AND TIEBACK LOCATIONS PER FDOT STANDARD SPECIFICATION 120-9.
- 11. IF COMPACTION IS REQUIRED IN ACCORDANCE WITH SPECIFICATIONS ABOVE THE TIEBACKS OR DEADMAN, THE CONTRACTOR SHALL USE A SMALL PLATE COMPACTOR (NO OPERATOR-DRIVEN HEAVY EQUIPMENT IS ALLOWED).
- 12. PILASTER DIMENSIONS WERE DESIGNED TO ACCOMMODATE A 45-FOOT LIGHT POLE MOUNTED ON A BREAKAWAY T-BASE WITH BASE SQUARE LENGTH OF 15 3/8", AND A BOLT CIRCLE DIAMETER OF 15 INCHES. IF A NON-STANDARD POLE OR T-BASE IS SELECTED, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED ALTERATIONS OF THE POLE AND PILASTER TO THE ENGINEER FOR REVIEW.
- 13. GUARDRAIL MAY BE INSTALLED AT SOME LOCATIONS ADJACENT TO LIGHT POLE PILASTER. GUARDRAIL POST SPACINGS ARE TO BE SHIFTED TO AVOID CONFLICT WITH DEADMAN AND TIEBACKS. CONTRACTOR SHALL COORDINATE WITH GUARDRAIL CONTRACTOR TO LOCATE TIEBACKS.
- 14. CONTRACTOR SHALL COORDINATE WITH LIGHT POLE CONTRACTOR TO LOCATE 2" CONDUIT WITHIN LIMITS OF LIGHT POLE BASE.
- 15. COST OF #57 STONE WITH FILTER FABRIC WRAP IS INCIDENTAL TO THE CONCRETE GRAVITY WALL.

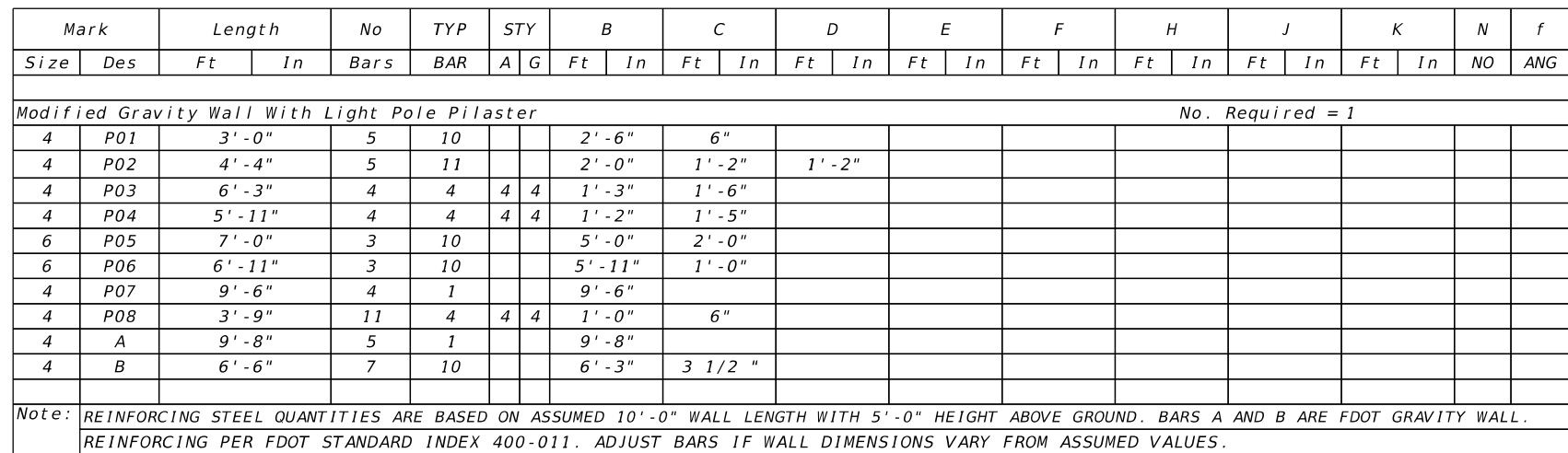
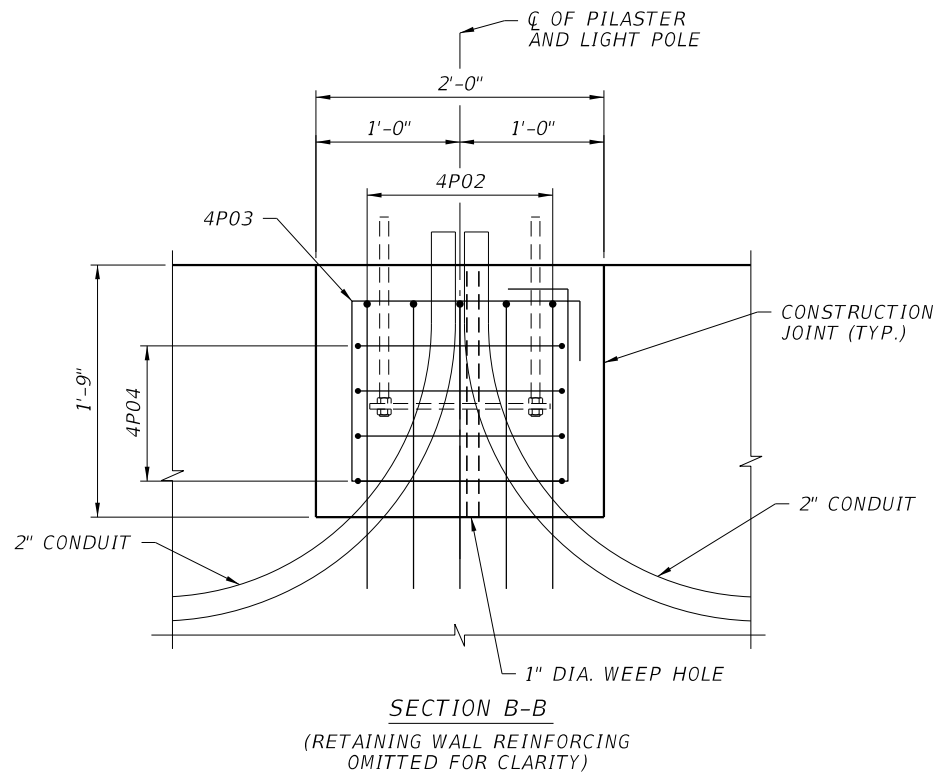


SECTION



PLAN  
(RETAINING WALL REINFORCING  
OMITTED FOR CLARITY)

| REVISIONS |    |             |      |    |             | THOMAS M. WAITS, P.E.<br>P.E. LICENSE NUMBER 55460<br>HIGHSPANS ENGINEERING, INC.<br>2121 MCGREGOR BOULEVARD<br>SUITE 200<br>FORT MYERS, FL 33901 | DRAWN BY:<br>SDS 04/21    | LEE COUNTY<br>DEPARTMENT OF TRANSPORTATION |  |  | SHEET TITLE:<br><br>MODIFIED GRAVITY WALL WITH<br>LIGHT POLE PILASTER (1 OF 2) | REF. DWG. NO.          |
|-----------|----|-------------|------|----|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------|--|--|--------------------------------------------------------------------------------|------------------------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |                                                                                                                                                   | CHECKED BY:<br>CLH 04/21  |                                            |  |  |                                                                                | ROAD NO.<br><br>CR 850 |
|           |    |             |      |    |             |                                                                                                                                                   | DESIGNED BY:<br>RMW 04/21 |                                            |  |  |                                                                                |                        |
|           |    |             |      |    |             |                                                                                                                                                   | CHECKED BY:<br>TMW 04/21  |                                            |  |  |                                                                                |                        |
|           |    |             |      |    |             |                                                                                                                                                   |                           |                                            |  |  |                                                                                | SHEET NO.<br><br>L-25  |



| ESTIMATED MODIFIED GRAVITY WALL QUANTITIES |      |          |
|--------------------------------------------|------|----------|
| ITEM                                       | UNIT | QUANTITY |
| CONCRETE LIGHT POLE PILASTER               | CY   | 6.8      |

NOTE: CONCRETE QUANTITIES ARE BASED ON ASSUMED 10'-0" WALL LENGTH WITH 5'-0" HEIGHT ABOVE GROUND. ADJUST CONCRETE QUANTITIES IF WALL DIMENSIONS VARY FROM ASSUMED VALUES.

| REVISIONS |    |             |      |    |             | THOMAS M. WAITS, P.E.<br>P.E. LICENSE NUMBER 55460<br><br>HIGHSPANS ENGINEERING, INC.<br>2121 MCGREGOR BOULEVARD<br>SUITE 200<br>FORT MYERS, FL 33901 | DRAWN BY:<br>SDS 04/21    | LEE COUNTY<br>DEPARTMENT OF TRANSPORTATION |        |            | SHEET TITLE:                                               |           | REF. DWG. NO.                      |      |
|-----------|----|-------------|------|----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------|--------|------------|------------------------------------------------------------|-----------|------------------------------------|------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |                                                                                                                                                       | CHECKED BY:<br>CLH 04/21  |                                            |        |            | MODIFIED GRAVITY WALL WITH<br>LIGHT POLE PILASTER (2 OF 2) |           |                                    |      |
|           |    |             |      |    |             |                                                                                                                                                       | DESIGNED BY:<br>RMW 04/21 | ROAD NO.                                   | COUNTY | PROJECT ID | PROJECT NAME:                                              | SHEET NO. |                                    |      |
|           |    |             |      |    |             |                                                                                                                                                       | CHECKED BY:<br>TMW 04/21  | CR 850                                     | LEE    |            |                                                            |           | CORKSCREW ROAD WIDENING - PHASE II | L-26 |
|           |    |             |      |    |             |                                                                                                                                                       |                           |                                            |        |            |                                                            |           |                                    |      |