INDEX OF LIGHTING PLANS

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L-2  TABLE OF QUANTITIES
L-3  GENERAL NOTES
L-4  POLE DATA AND LEGEND
L-5 - L-7  LIGHTING PLAN
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LIGHTING PLANS

LITTLETON / KISMET REALIGNMENT
COUNTY PROJECT NO. CN160459DLK

LOCATION OF PROJECT
https://goo.gl/maps/tz7mkKWKJV42

LIGHTING PLANS

ENGINEER OF RECORD;
VINCENT J. MILLER, P.E.

Lee County Project Manager:
ALAN T. KALTENBAUGH, P.E.

Printed copies of this document are not considered signed and sealed. The signature must be verified in the electronic documents.

LIGHTING PLANS
ENGINEER OF RECORD:

ALAN T. KALTENBAUGH, P.E.
P.E. No. 85339
GANSETT FLEMING
9119 CORPORATE LAKE DRIVE, SUITE 150
TAMPA, FL 33634-6323
CONTRACT No. C-9E24
VENDOR No. 25-1613591
CERTIFICATE OF AUTHORIZATION No.: 5564

LEE COUNTY PROJECT MANAGER:
VINCENT J. MILLER, P.E.

Digitally signed by
ALAN T. KALTENBAUGH
Date: 2019.06.28
16:27:43-04'00'
<table>
<thead>
<tr>
<th>PAY ITEM NO.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>L-5</th>
<th>L-6</th>
<th>L-7</th>
<th>TOTAL THIS SHEET</th>
<th>GRAND TOTAL</th>
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<tbody>
<tr>
<td>630-2-11</td>
<td>CONDUIT, FURNISH &amp; INSTALL, OPEN TRENCH</td>
<td>LF</td>
<td>320</td>
<td>700</td>
<td>1325</td>
<td>2325</td>
<td>2325</td>
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<td>630-2-12</td>
<td>CONDUIT, FURNISH &amp; INSTALL, DIRECTIONAL BORE</td>
<td>LF</td>
<td>750</td>
<td>750</td>
<td>2675</td>
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<tr>
<td>635-2-11</td>
<td>FULL &amp; SPICE BOX, 761, 17&quot; x 30&quot; COVER SIZE</td>
<td>EA</td>
<td>3</td>
<td>4</td>
<td>18</td>
<td>23</td>
<td>23</td>
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<td>715-1-12</td>
<td>LIGHTING CONDUCTORS, F&amp;I, INSULATED, NO. 6</td>
<td>LF</td>
<td>387</td>
<td>822</td>
<td>1392</td>
<td>2358</td>
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<td>715-4-11</td>
<td>LIGHT POLE COMPLETE, FURNISH &amp; INSTALL STANDARD POLE FOUNDATION, 30' MOUNTING HEIGHT</td>
<td>EA</td>
<td>3</td>
<td>4</td>
<td>18</td>
<td>23</td>
<td>23</td>
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<td>715-4-12</td>
<td>LIGHT POLE COMPLETE, FURNISH &amp; INSTALL STANDARD POLE FOUNDATION, 35' MOUNTING HEIGHT</td>
<td>EA</td>
<td>3</td>
<td>4</td>
<td>18</td>
<td>23</td>
<td>23</td>
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<td>715-7-11</td>
<td>LOAD CENTER, F&amp;I, SECONDARY VOLTAGE</td>
<td>EA</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<td>715-11-211</td>
<td>LUMINAIRE, F&amp;I, REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM ROADWAY, COBRA HEAD</td>
<td>EA</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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</table>
1. BEFORE ANY PROJECT WORK BEGINS THERE SHALL BE A MAINTENANCE TRANSFER. THE MAINTENANCE WILL TRANSFER FROM LEE COUNTY TO THE CONTRACTOR AT A PRE-DEFINED ELECTRICAL CONTRACTOR INDEX greater than the 01. The transfer will occur at the end of the project. BEFORE THE TRANSFER, THE CONTRACTOR IS REQUIRED TO HAVE AN AUTHORIZED REPRESENTATIVE SIGNATURE TO ACCEPT THE MAINTENANCE TRANSFER AND TO CONFIRM THE EXISTENCE OF THE CONDITION OF THE STREET LIGHTING SYSTEM.

2. ANY DEFICIENCIES THAT MAY BE FOUND ON THE DATE OF THE MAINTENANCE TRANSFER SHALL BE REPAIRED BY LEE COUNTY TRAFFIC DEPARTMENT. IF AT TIME, AND ALL DEFICIENCIES FROM THE DATE AND TIME SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. CONTRACTOR MAINTENANCE RESPONSIBILITIES: CONTRACTOR SHALL PROVIDE 24-HOUR CONTACT PERSONS TELEPHONE NUMBERS AND E-MAIL ADDRESSES AT THE TIME OF TRANSFER. FAILURE TO RESPOND TO MAINTENANCE RESPONSIBILITIES IN A TIMELY MANNER WILL RESULT IN THE CONTRACTOR BEING OUT OF TOWN CONTRACTOR DOES NOT RELIEVE THIS RESPONSIBILITY.

4. LOCATES: ONE (1) COURTESY LOCATE SHALL BE PERFORMED BY LEE COUNTY TRAFFIC DEPARTMENT AT NO ADDITIONAL COST TO THE COUNTY. LOCATES IS DEFINED AS LOCATE SHALL BE PERFORMED NO LATER THAN TWENTY-FOUR (24) HOURS AFTER NOTIFICATION OF LOCATE BY LEE COUNTY. THE CONTRACTOR SHALL ADVICE THE ENGINEER VIA E-MAIL OR FAX OF SUNSHINE ONE 1-800-432-4770. FAILURE TO PERFORM LOCATES DEFICIENCIES WILL BE REPAIRED BY THE CONTRACTOR.

5. CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.

6. ELECTRICAL EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN ACCORDANCE WITH THE SPECIFICATIONS.

7. CONTRACTOR SHALL PROVIDE 24-HOUR CONTACT PERSONS TELEPHONE NUMBERS AND E-MAIL ADDRESSES AT THE TIME OF TRANSFER. FAILURE TO RESPOND TO MAINTENANCE RESPONSIBILITIES IN A TIMELY MANNER WILL RESULT IN THE CONTRACTOR BEING OUT OF TOWN CONTRACTOR DOES NOT RELIEVE THIS RESPONSIBILITY.

8. LOCAL AND STATE REGULATIONS REQUIRE THAT BEFORE EXCAVATING, NOTICE SHALL BE GIVEN TO THE UTILITIES OWNER OF A MINIMUM OF (2) FULL BUSINESS DAYS AND A MAXIMUM OF (5) FULL BUSINESS DAYS. NOT ALL UTILITIES OWNERS ARE A MEMBER OF "SUNSHINE ONE" 1-800-432-4770.

9. STATE OF FLORIDA STATUTE 556.105 REQUIRES THAT BEFORE EXCAVATING, NOTICE SHALL BE GIVEN TO THE UTILITIES OWNER OF A MINIMUM OF (2) FULL BUSINESS DAYS AND A MAXIMUM OF (5) FULL BUSINESS DAYS. NOT ALL UTILITIES OWNERS ARE A MEMBER OF "SUNSHINE ONE" 1-800-432-4770.

10. THE LOCATION OF THE POLES, CONDUITS, CONDUITS, JUNCTION BOXES, AND STREET LIGHTS SHALL BE STAKED PRIOR TO INSTALLATION SUBMITTED TO THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.


12. INSTALL LIGHTING ARRESTORS, PROPERLY GROUNDED IN POWER (SECONDARY) ENTRANCE.

13. IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, IDENTIFY ALL CIRCUITS AND PANELS. INSTALL NON-REMovable STAINLESS STEEL IDENTIFYING CIRCUITS FOR EACH LUMINARE AT THE ACCESS HANDHELD FOR EACH POLE.

14. CONTRACTOR SHALL MEET ALL APPROPRIATE OSHA REQUIREMENT. A MINIMUM 10-FOOT DISTANCE SHALL BE MAINTAINED BETWEEN THE EQUIPMENT AND THE ELECTRIC ION OF THE POWER FACILITIES. THE CONTRACTOR IS NOT TO EMAIL THE CONTRACTOR IS NOT TO ELECTRIC ION TO OPERATE WITHIN BOTH VERTICALLY AND HORIZONTALLY. ANY MORE DONE RELATING TO THIS REQUIREMENTS SHALL BE SUBMITTED ADDITIONAL COST TO THE CONTRACTOR.

15. CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND UPSTAND UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

16. CONTRACTOR SHALL COMPLETE THE APPLICATION FOR THE STREET LIGHTING UTILITIES AT NO ADDITIONAL COST TO THE COUNTY.

17. THE CONTRACTOR SHALL PURCHASE AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY (LUMINARE). EACH TAG SHALL BE 3 1/2 INCHS IN SIZE WITH BLACK LETTERS ON A YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS FOR EACH STREET LIGHT POLE SHALL BE ALIGNED AND/OR APPLIED AS REQUIRED BY FLORIDA STATUTE (LATEST EDITION). COST OF TAGS SHALL BE INCLUDED IN THE PAY ITEM.

**POLE DATA**

<table>
<thead>
<tr>
<th>POLE NO.</th>
<th>CIRCUIT</th>
<th>STATION</th>
<th>DIST. ON ARM</th>
<th>LUMINAIRE WATTAGE</th>
<th>MOUNTING HEIGHT</th>
<th>POLE SETBACK</th>
<th>PAY ITEM</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A1</td>
<td>C1</td>
<td>20</td>
<td>168</td>
<td>35'</td>
<td>4' FROM EOP</td>
<td>713-4-22</td>
<td>NEW</td>
</tr>
<tr>
<td>2</td>
<td>A1</td>
<td>C1</td>
<td>40</td>
<td>168</td>
<td>35'</td>
<td>17' FROM EOP</td>
<td>713-4-22</td>
<td>NEW</td>
</tr>
<tr>
<td>3</td>
<td>A1</td>
<td>C1</td>
<td>20</td>
<td>168</td>
<td>35'</td>
<td>10' FROM EOP</td>
<td>713-4-22</td>
<td>NEW</td>
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</table>

**4-EXT EXISTING**

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<tr>
<th>NO.</th>
<th>DIST. ON ARM</th>
<th>LUMINAIRE WATTAGE</th>
<th>MOUNTING HEIGHT</th>
<th>POLE SETBACK</th>
<th>PAY ITEM</th>
<th>OPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>40</td>
<td>168</td>
<td>35'</td>
<td>10' FROM EOP</td>
<td>713-4-22</td>
<td>NEW</td>
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<tr>
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<td>168</td>
<td>35'</td>
<td>10' FROM EOP</td>
<td>713-4-22</td>
<td>NEW</td>
</tr>
</tbody>
</table>

**CONVENTIONAL LIGHTING DESIGN CRITERIA**

- Average Initial Horizontal Intensity: 30 Foot Candles
- Average Initial Vertical Intensity: 23 Foot Candles
- Uniformity Ratio Avg./Min.: 4:1 Or Less
- Max./Min: 10:1 Or Less
- Wind Speed: 170 MPH

**LOAD CENTER**

For requirements see Section 12 of Lee County Department of Transportation Plan Specifications for Signal & Street Lighting.