TYPICAL SECTION

BONITA GRANDE DRIVE

STA. 99+89.20 TO 106+02.32

GENERAL NOTES
1. FOR DETAILS AND LIMITS OF SELECTIVE CLEARING AND DRESSING SEE TYPICAL SECTION.

MILLING
STA. 99+89.20 TO 106+02.32 BONITA GRANDE NORTH
MILL EXISTING ASPHALT (1" AVERAGE DEPTH)

RESURFACING
STA. 99+89.20 TO 106+02.32 BONITA GRANDE NORTH
TYPE S-III SURFACE COURSE (105 LBS/ST)

WIDENING
OPTIONAL BASE GROUP B WITH
TYPE S-1 STRUCTURAL COURSE (TRAFFIC C) (ISO LBS/ST)
AND TYPE S-III SURFACE COURSE (105 LBS/ST)

WIDENING

TYPE "F" STABILIZATION (LRB 40)
STA. 103+44.47 TO 105+66.47

DESIGN SPEED = 45 MPH

WIDE PROJECTION 

REFERENCES

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

BONITA GRANDE DRIVE
TYPICAL SECTION

2
Typical Section

Bonita Beach Road

STA. 2+29.02 TO STA. 6+97.14

Milling

MILL EXISTING ASPHALT PAVEMENT (6" AVG. DEPTH)

Resurfacing

TYPE S-III SURFACE COURSE (105 LBS/SF)

Widening

OPTIONAL BASE GROUP D WITH

TYPE S-I STRUCTURAL COURSE (TRAFFIC C) (50 LBS/SF)
AND TYPE S-III SURFACE COURSE (105 LBS/SF)
TYPICAL SECTION
BONITA BEACH ROAD
STA. 6+97.14 TO STA. 10+30.00

MILLING
MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)

RESURFACING
TYPE S-HI SURFACE COURSE (105 LBS/3Y)

TYPICAL SECTION
BONITA BEACH ROAD
TYPICAL SECTION
TYPICAL SECTION
BONITA BEACH ROAD
STA. 10+30.00 TO STA. II+70.98

WILLING
MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)
RESURFACING
TYPE S-III SURFACE COURSE (105 LBS/SF)
WIDENING
OPTIONAL BASE GROUP 9 WITH
TYPE S-I STRUCTURAL COURSE (TRAFFIC C) (150 LBS/SF)
AND TYPE S-III SURFACE COURSE (105 LBS/SF)
TYPICAL SECTION

BONITA BEACH ROAD

STA. II+70.98 TO STA. 19+36.15

MILLING

MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)

RESURFACING

TYPE S-II SURFACE COURSE (105 LBS/YS)

WIDENING

OPTIONAL BASE GROUP 9 WITH

TYPE S-I STRUCTURAL COURSE (TRAFFIC C) (150 LBS/YS)
AND TYPE S-II SURFACE COURSE (105 LBS/YS)

SHOULDER

OPTIONAL BASE GROUP 1 WITH

TYPE S-II SURFACE COURSE (105 LBS/YS)
PAY ITEM NOTES:
CONTROL STRUCTURE SHALL INCLUDE ALL WATER/PLANTS FOR COMPLETE STRUCTURE. 1/2" PVC, FLOODING, CONCRETE DITCH PAVEMENT ETC.
CLEAR & GRADING SHALL INCLUDE CURB & GUTTER AND SIDEWALK REMOVAL AS WELL AS REMOVAL OF CONCRETE DRIVEWAY AT THE LIFT STATION NOTED IN THE PLANS.

GENERAL NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL UTILITIES. FLORIDA STATUTE 553.651 (1978) REQUIRES A MINIMUM OF TWO (2) DAYS AND MAXIMUM OF FIVE (5) DAYS NOTICE TO UTILITY OWNERS BEFORE START OF EXCAVATION.

2. ALL EXCAVATION AND TRENCHING MUST BE PERFORMED IN ACCORDANCE WITH THE FLORIDA TRENCH SAFETY ACT.

3. ALL DISTURBED AREA'S SHALL BE SODDED UPON COMPLETION OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.

4. ALL DRAINAGE PIPE SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS I/II. NO SUBSTITUTE PIPE WILL BE ALLOWED.

5. CONTRACTOR IS TO SAW CUT THE EDGE OF PAVEMENT TO ENSURE A SMOOTH EDGE FOR NEW PAVEMENT STRUCTURE TO TIE INTO.

6. DISTURBED AREAS IN THE RIGHT-OF-WAY SHALL BE RESTORED TO MATCH EXISTING GRADES UNTIL OTHERWISE NOTED.

7. THE CONTRACTOR SHALL USE STAKED SILT FENCE AND (1) APPLICATION AT THE RIGHT-OF-WAY LINES AND UTILIZE INSECT BARRIERS AROUND THE EXISTING AND NEW CURB INLETS IN THE PROJECT AREA TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM. SPRINTERS SHALL BE USED AT SIDEWALK AND CONTROL STATIONS (REFER TO FOOT STANDARD HOEYES).

8. ALL EXISTING DRAINAGE PIPES AND STRUCTURES ARE TO REMAIN UNLESS OTHERWISE NOTED.


10. EROSION CONTROL FOR THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

11. THE CONTRACTOR IS REQUIRED TO FILE A NOTICE OF INTENT (NOI) AND A NOTICE OF TERMINATION (NOT) WITH THE APPLICABLE AGENCIES.

12. A CY OF CLASS I CONCRETE (WIDE/LEAKLESS) SHALL BE INCLUDED IN THE BID PRICE.

13. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE FEE, C.P.A., AND PERMITS FOR CONSTRUCTION ACTIVITIES PRIOR TO CONSTRUCTION.

14. LEE COUNTY D.O.T. CONTRACTOR AND ANY SUBCONTRACTOR WILL UTILIZE EAST/WEST EQUIPMENT WITH BLOW LIFT NO HIGHER THAN 18" (1') ABOVE GRADE WORKING IN THE VICINITY OF FPL'S OVERHEAD ELECTRIC FACILITIES.

15. BOTTOM OF GRADE MUST BE A MIN. OF 1' BELOW EXISTING GRADE. CONTRACTOR MAY ELECT TO CONSTRUCT A UNIFORM GRADE (1'). NO ADDITIONAL EXPENSE TO OWNER.

DENNISTON & DAVIS
CIVIL AND TRANSPORTATION ENGINEERS

FLORIDA POWER & LIGHT
3911 WEST FORT WORTH
ARLINGTON, TX 76013
PHONE: (817) 863-4123

CONCAST
2231 W. MICHIGAN AVENUE
FORT WOOG, FL 33916
PHONE: (239) 482-3316

SPRING
290 S. QUITMAN ST
FORT WOOG, FL 33916
PHONE: (239) 323-7625

BOKTA SPRINGS UTILITIES
1420 W. MICHIGAN AVENUE
FORT WOOG, FL 33916
PHONE: (239) 323-4610

DAN M. CRAND
FL.P.E. #58580

BENCHMARKS AND GEN. NOTES

SURVEY REFERENCE POINTS

DRAFT SHEET 7 OF 7

DATE: 2/17/2008
DEPARTMENT OF TRANSPORTATION
COUNTY PROJECT NO: 6079
COUNTY: LEE
PROJECT NO: 20008.201
NOTE: CONTRACTOR TO PROVIDE BENCHMARK ON TOP OF CONTROL STRUCTURE BEFORE COMPLETION OF THE PROJECT.
END SIGNING AND PAVEMENT MARKING
MATCH TO EXISTING PAVEMENT MARKINGS
STA. 106+02.32

6" SOLID WHITE
T10-25-61

6" SOLID WHITE
T10-25-61

6" SOLID OBL. YELLOW W/A RED PMP 20' SPACING
T10-26-61
708-3

NOTE: BONITA BEACH RD NEXT SIGNAL SIGN IS TO BE DESIGNED BY LEE COUNTY
NOTE: BONITA GRANGE DR. NEXT SIGNAL IS TO BE DESIGNED BY LEE COUNTY.
END SIGNING AND PAVEMENT MARKING
MATCH TO EXISTING PAVEMENT MARKINGS (EDGE STRIPE)
STA. 19+36.15

TO REMAIN

BONTIA BEACH ROAD

CONTRACTOR TO INSTALL "NO PASSING ZONE" SIGNING
AND WARNINGS PER THIS SHEET, EXISTING "NO PASSING
ZONE" WARNINGS OUTSIDE OF CONTRACT LIMITS TO BE
REMOVED AND REPLACED.

NOTE: EXISTING PAVEMENT MARKINGS

SPEED LIMIT

NOTE: RELOCATED FROM
STA. 18+59.38 (RT)

6" SOLID WHITE
244.30

6" SOLID YELLOW
10'-30' SKIP YELLOW
W/1/2 RPM 40' SPACING
7.15.26-61) 726-3

NOTE: MATCH EXISTING PAVEMENT MARKINGS
24

STA. 244.25+67
243.64 RT

6/18/2023

SIGNING AND PAVEMENT MARKING PLANS
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

COUNTY PROJECT NO. 6079
PROJECT NO. 20008.201

LEE

COUNTY

REVISIONS

DATE

DESCRIPTION

DATE

DESCRIPTION

W

W

33
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PAY ITEM NOTES:

555-1: THIS ITEM SHALL INCLUDE THE IMPLEMENTATION OF TWINS INTO ALL COMPONENTS. THE COORDINATION TIMES WILL BE SUPPLIED TO THE PROJECT ENGINEER UPON HIS REQUEST. REQUESTS SHOULD BE MADE TO LEE COUNTY TRAFFIC OPERATIONS ENGINEER, TELEPHONE 830-50-7000.

660-5: THE CONTROLLER AND CABINET SHALL BE COMPATIBLE WITH THE EXISTING LEE COUNTY CLOSED-LOOP COMPUTER SYSTEM. ALL LANDING AND MATERIALS INCLUDING THE INTERFACE PANEL AND LIGHTNING ARRESTORS NEEDED FOR A COMPLETE AND ACCEPTABLE INSTALLATION SHALL BE INCLUDED IN THE PRICE FOR A CONTROLLER ASSEMBLY.

670-4: THIS ITEM SHALL INCLUDE THE IMPLEMENTATION OF TWINS INTO ALL COMPONENTS. THE COORDINATION TIMES WILL BE SUPPLIED TO THE PROJECT ENGINEER UPON HIS REQUEST. REQUESTS SHOULD BE MADE TO DISTRICT 1 TRAFFIC OPERATIONS ENGINEER, TELEPHONE 830-50-7000.

653-1: PEDESTRIAN SIGNALS SHALL BE DOUBLE-SECTION, INTERNATIONAL SYMBOL, SOLID LED'S. MOUNTING HEIGHT OF PEDESTRIAN SIGNALS SHALL BE 9 FT ABOVE GRADE.

659-1: PEDESTRIAN SIGNALS SHALL BE MOUNTED ABOVE THE PEDESTRIAN BUTTON, AND PEDESTRIAN SIGNAL SIGNS SHALL BE MOUNTED BELOW THE PEDESTRIAN BUTTON.

670-5: THE EXISTING CABINET BASE SHALL BE CORE DRILLED FOR THE INSTALLATION OF NEW CONDUITS. IF SHARED CONDUIT STUDS ARE NOT AVAILABLE FOR USE, NEW CONDUITS, AS REQUIRED IN THE PLANS, SHALL BE INSTALLED INTO THE EXISTING FOUNDATION. WHEN ADDITIONAL CONDUIT ARE REQUIRED, THE CABLE SHALL BE GRAY IN COLOR. THE NEW CABINET SHALL NOT BE LOCATED SO AS TO CAUSE CONFLICT WITH THE EXISTING CABINET OR EQUIPMENT IN THE CABINET OR THE MOUNTING OF THE CABINET TO THE CONCRETE FOUNDATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING INTERNAL CABINET AND EQUIPMENT FROM DUST AND DEBRIS CAUSED BY CORE DRILLING.

700-43: THIS ITEM SHALL INCLUDE SIGN ARM BRACKET AND ALL SUPPORTING HARDWARE TO MAKE A COMPLETE AND ACCEPTABLE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING SUPPORT COMPONENTS TO MEET THE FOLLOWING CRITERIA:

- SIGN ARM MINIMUM DEAD LOAD WEIGHT
- SIGN ARM MINIMUM WIND LOAD

705-1: INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE ROADWAY AND TRAFFIC DESIGN STANDARDS. PAYMENT SHALL BE MADE BASED ON LENGTH FEET OF SINGLE CONDUCTOR. INCLUDE BREAK-AWAY RECEPTACLES WITH SET CONNECTOR SCREWS AND RUBBER BOOTs IN EACH POLE BASE.

705-1: INCLUDE CONDUIT, ELBOWS, SLEEVES, CONNECTING HARDWARE, TRENCHING AND BACKFILL AS INDICATED IN THE PLANS AND THE ROADWAY AND TRAFFIC DESIGN STANDARDS. THE LATERAL FOOT PATH FOR THE PROJECT SHALL ALSO INCLUDE THE COST OF RESTORING THE PAVING, SIDEWALKS, SIGNS, ETC. TO ITS ORIGINAL CONDITION. SIGNS SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDING.

705-1: THIS ITEM SHALL INCLUDE HOLLOWAI MAGNETO (400000VUE-1600) FOR SIGNAL POLES 1-4 AND HOLLOWAI MAGNETO (500000VUE-1600) FOR SIGNAL POLES 1-1 AND 1-2. SEE LAYOUT DETAILS FOR FURTHER INFORMATION. THE PHOTO ELECTRIC CELL TO BE INSTALLED ON SERVER DISCONNECT. ATTACHMENT BRACKETS FOR ALL LUMINAIRE FIXTURES SHALL BE HOLLOWAI/PV 80X70-10.

SHEET NO. T-3
GENERAL NOTES:
The permittee shall provide a qualified technician, to perform construction engineering & inspection services for the installation of the traffic signal, and to certify that all work has been done in accordance with the department's standards, specifications, permit requirements, and all applicable federal, state and local statutes, rules, and regulations. In addition, the on-site inspector shall be ISA level II certified.

EXISTING EQUIPMENT OWNERS: LEE COUNTY/FLORIDA DOT

SIGNAL TO BE MAINTAINED BY: LEE COUNTY

FOR PAVEMENT MARKINGS SEE PAVEMENT MARKING PLANS.

INSURANCE AS REFERENCED IN SECTION 7-13.5 IN THE F.O.D.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (EIGHTH AS SHOWN ON KEY SHEETS) SHALL BE PROVIDED BY THE CONTRACTOR WHEN INSTALLING OR WHEN WORKING ON OR IN THE VICINITY OF JOINT-USE POLES OR WHEN WORKING IN THE VICINITY OF POWER LINES.

TRAFFIC CONTROL PLAN FOR SIGNAL INSTALLATION: MAINTAIN TRAFFIC ON EXISTING ROADWAY BY USE OF INDEX Nos. 600, 620 & 622 OF THE ROADWAY AND TRAFFIC DESIGN STANDARD, BOOKLET EDITION AS NOTED ON KEY SHEET.

FPL POWER COMPANY SHALL ASSIST CONTRACTOR IN PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES, SUCH AS THE INSTALLATION OF SPAN WIRING, SIGNAL CABLES, FIBEROPTIC REGULATORS AND SIGNAL POLES. CONTRACTOR SHALL NOTIFY THE POWER COMPANY AT LEAST 72 HOURS PRIOR TO INSTALLATION OF EQUIPMENT AND DISCONNECT THE SERVICE TO THE SUBCONTRACTOR WILL UTILIZE EQUIPMENT WITH BOOM TO LIFT NO HIGHER THAN 90 DEGREE ANGLE WHEN WORKING IN THE VICINITY OF FPL'S OVERHEAD ELECTRICAL FACILITIES.

SIGNAL SHALL BE PLACED IN FULL OPERATION ON A MONDAY, TUESDAY OR WEDNESDAY, BUT SHALL NOT BE PLACED IN FULL OPERATION ON THE DAY PRECEDING A HOLIDAY.

SECTION 61-4, FIELD TESTS:

SCHEDULING OF THE PARTIAL AND FINAL ACCEPTANCE INSPECTIONS SHALL BE COORDINATED WITH THE TRAFFIC OPERATIONS DIVISION NOTED BELOW WITH A MINIMUM OF 48 HOURS NOTICE.

RESULTS OF FIELD TESTS (A, SECTION 614) SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER IN WRITTEN FORM. A QUALIFIED REPRESENTATIVE SHALL BE PRESENT AT THE CONDITIONAL ACCEPTANCE INSPECTION OF THE CONTROLLER ASSEMBLY. THE QUALIFICATIONS OF THE REPRESENTATIVE SHALL INCLUDE:

I. COMPLETE FAMILIARITY WITH ALL SYSTEM ELEMENTS INCLUDING CONTROLLERS COORDINATING UNITS, SYSTEM CABLES AND SYSTEM COMMUNICATIONS ELEMENTS. THE REPRESENTATIVE SHALL BE QUALIFIED TO INPUT AND RECALL ALL CONTROLLER AND SYSTEM TIMING FUNCTIONS.

MAINTAINING AGENCY SHALL COORDINATE UTILITY RELOCATIONS IF NECESSARY.

UTILITY OWNERS:

CONOCAST SIRAH DELL
230 MICHIGAN AVENUE
FORT MYERS, FL 33901
PHONE: (239) 335-3800

SPRINT JOHN RODRIGUES
390 PROSPECT AVENUE, UNIT 201
APALACHICOLA, FL 32320
PHONE: (850) 297-3000

FPL NEF DARDIN
1554 WINKLER ROAD
FORT MYERS, FL 33901
PHONE: (239) 393-3000

BONTA SPRINGS UTILITIES
PATRICK ZWINGS
900 EAST TWIN STREET
BONTA SPRINGS, FL 34543
PHONE: (239) 435-4000

SUBMITTAL DATA FOR ALL PERMIT JOBS MUST BE DONE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS, SECTION 603.5.

AT LEAST 48 HOURS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, CONTRACTORS SHALL CONTACT THE TRAFFIC SIGNAL INSPECTOR/LORD.

LAWRENCE WASHBY, TRAFFIC OPS. LORDD
3000 VICTORIA AVENUE, SUITE 292
FORT MYERS, FL 33901-1004
PHONE: (239) 406-2488
ISNOM (7-4-09)

WHEN CONSTRUCTION DEVIATES FROM APPROVED PERMIT PLANS, INCLUDING POSSIBLE EASEMENTS, PLEASE FURNISH THE DEPARTMENT OF TRANSPORTATION ONE COPY OF "AS BUILT" PLANS FOR OUR RECORDS.

DEPARTMENT OF TRANSPORTATION
P.O. BOX 109
ISTREET ADDRESS: 801 S. BROADWAY AVE.
BARTON, FLORIDA 33901
ATTN: TRAFFIC OPERATIONS - SIGNAL DIVISION

FURNISH TWO SETS OF "AS BUILT" PLANS TO:
LEE COUNTY SIGNAL TRAFFIC
5900 ENTERPRISE PKWY.
FORT MYERS, FL 33912
ATTN: MR. DEARI

FULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN FULL BOXES SHALL BE PLACED A MINIMUM OF 1 FT FROM THE EDGE OF PAVEMENT.

DURING CONSTRUCTION, IF ANY PEDESTRIAN FACILITIES ARE DISTURBED WITHIN THE LIMITED ACCESS ROW, THEY SHALL BE REPLACED TO COMPLY WITH THE CURRENT STANDARDS FOR THE AMERICAN WITH DISABILITIES ACT (ADA) OF 900.

WORK ZONE TRAFFIC CONTROL (REMOVAL EXISTING SIGNAL)

A. THE CRITERIA AS OUTLINED IN THE "MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNALS AND DEVICES" SHALL BE ADHERED TO FOR ALL SIGNALS.
B. BOTH PERMANENT AND TEMPORARY.
C. MAINTAIN TRAFFIC BY USE OF TRAFFIC CONTROL INDICATORS IN THE F.O.D.T. ROADWAY AND TRAFFIC DESIGN STANDARDS BOOKLET DATED JANUARY 2000. NO LANE CLOSURES WILL BE ALLOWED BETWEEN 6:00 A.M. AND 9:00 A.M. AND BETWEEN 4:00 P.M. AND 7:00 P.M.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SAFE AND EFFICIENT OPERATION OF ALL SIGNALS, AND THE TEMPORARY MOVEMENT OF TRAFFIC WITHIN THE LIMITS OF THE PROJECTS. TO INCLUDE IDENTIFYING DETERMINING SIGNAL TIMING, AND ADJUSTING SIGNAL TIMES AS NECESSARY DURING EACH PHASE OF CONSTRUCTION. THIS SHALL ALSO INCLUDE MAINTAINING SIGNAL COORDINATION WITH SIGNALS BOTH INSIDE AND OUTSIDE THE PROJECT LIMITS.

E. MODIFICATION TO PERMANENT SIGNAL EQUIPMENT FOR TEMPORARY MAINTENANCE OF TRAFFIC PHASING SHALL BE ACCOMPLISHED IN A MANNER SO AS NOT TO CAUSE DAMAGE TO MAST ARMS, POLES, OR OTHER SIGNAL EQUIPMENT.

F. DURING EACH PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL PROPERLY AUXILIARY SIGNAL HEADS.

G. ALL SIGNALS SHALL REMAIN IN ACTUATED OPERATION THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR MAY UTILIZE STANDARD LOOPS, PREPARED SIGNALS, OR AN ALTERNATIVE METHOD. ANY ALTERNATIVE DEVICE MUST BE ON THE APPROVED PRODUCTS LIST AND APPROVED BY THE PROJECT ENGINEER. CIRCUITARY DETERMINER DETECTORS SHALL BE USED FOR SIGNAL ACTUATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT AND ANY NECESSARY ADJUSTMENT, ADJUSTMENT OR REPLACEMENT OF THESE DEVICES AS NECESSARY TO MAINTAIN ACTUATED OPERATION FOR ALL MANNERS OF TEMPOREAL VEHICLE DETECTION, INCLUDING DETECTORS, INSTALLATION, RELOCATION, ADJUSTMENT OR REPLACEMENT SHALL BE INCLUDES AND PAID FOR UNDER PAY ITEM 210-D OR 210-I. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH LOCAL UTILITY COMPANIES AND VERIFY THAT TEMPORARY POLES WILL NOT CONFLICT WITH ANY EXISTING UTILITIES.

M. 2/15/05
**PRELIMINARY MAST ARM LOADING ARRANGEMENT**

* denotes number of sections in signal head assembly.

<table>
<thead>
<tr>
<th>ID NO.</th>
<th>SHEET NO.</th>
<th>LOCATION OF STA.</th>
<th>ELEVATION DIFFERENTIAL</th>
<th>COMB NO.</th>
<th>SIGNAL TEMP. PLATE TYP.</th>
<th>SIGN DATA</th>
<th>DISTANCE FROM POLE</th>
<th>TOTAL ARM LENGTH</th>
<th>ARM #</th>
<th>C. BETWEEN ARM HORIZONTALS</th>
<th>TRAVEL</th>
<th>DISTANCE FROM POLE</th>
<th>HEIGHT AND WIDTH OF SIGN</th>
<th>PAINT COLOR</th>
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<tbody>
<tr>
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<td>7-5</td>
<td>10-50</td>
<td>0.11</td>
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<td>L</td>
<td>10.5</td>
<td>30.5</td>
<td>34</td>
<td>18.5</td>
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<td>2.5</td>
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</tr>
<tr>
<td>I/2</td>
<td>7-5</td>
<td>9-37</td>
<td>0.46</td>
<td>1</td>
<td>V</td>
<td>12.5</td>
<td>34.3</td>
<td>44</td>
<td>20.0</td>
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<td>2.5</td>
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<tr>
<td>I/3</td>
<td>7-5</td>
<td>9-27.68</td>
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**TYPICAL DESIGN LOADING (POLE 1-1 MAST ARM 1)**

**TYPICAL DESIGN LOADING (POLE 1-2 MAST ARM 1)**

**TYPICAL DESIGN LOADING (POLE 1-3 MAST ARM 1 AND MAST ARM 2)**

**MAST ARM SCHEDULE PRELIMINARY**

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>DESCRIPTION</th>
<th>REV.</th>
<th>OLD BLK.</th>
<th>NEW BLK.</th>
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<tbody>
<tr>
<td>T-6</td>
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</table>
**FUTURE MAST ARM LOADING ARRANGEMENT**

<table>
<thead>
<tr>
<th>POLE 1-1</th>
<th>POLE 1-2</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>ID NO.</th>
<th>SHEET NO.</th>
<th>LOCATION BY STA.</th>
<th><strong>ELEVATION</strong></th>
<th><strong>TOTAL ANGLE</strong></th>
<th><strong>SIGN TYPE</strong></th>
<th><strong>TOTAL DISTANCE FROM POLE</strong></th>
<th><strong>TOTAL COMPONENT</strong></th>
<th><strong>TOTAL ANGULAR DEGREE</strong></th>
<th><strong>TOTAL ANGULAR DEGREE</strong></th>
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<tbody>
<tr>
<td>1/1</td>
<td>T-6</td>
<td>17+57</td>
<td>0.11</td>
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<tr>
<td>1-2</td>
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**TOTAL ANGULAR DEGREE**

<table>
<thead>
<tr>
<th>POLE 1-3 MAST ARM 1</th>
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<tbody>
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**TOTAL ANGULAR DEGREE**

<table>
<thead>
<tr>
<th>POLE 1-2 MAST ARM 1</th>
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<tbody>
<tr>
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**TOTAL ANGULAR DEGREE**

<table>
<thead>
<tr>
<th>POLE 1-3 MAST ARM 2</th>
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### TABLE OF SIGNAL STRUCTURE VARIABLES

<table>
<thead>
<tr>
<th>NUMBER OF LOCATIONS</th>
<th>STRUCTURE NUMBER</th>
<th>FIRST ARM</th>
<th>FIRST ARM EXTENSION</th>
<th>SECOND ARM</th>
<th>SECOND ARM EXTENSION</th>
<th>POLE</th>
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<tbody>
<tr>
<td>1</td>
<td>POLE 1-3</td>
<td>32.3</td>
<td>10.4</td>
<td>15</td>
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### TABLE OF SIGNAL STRUCTURE VARIABLES (CONT.)

<table>
<thead>
<tr>
<th>STRUCTURE NUMBER</th>
<th>FIRST ARM CONNECTION (ft)</th>
<th>First Arm Camber Angle = 2 Degrees</th>
<th>SECOND ARM CONNECTION (ft)</th>
<th>Second Arm Camber Angle = 2 Degrees</th>
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<tbody>
<tr>
<td>POLE 1-3</td>
<td>6</td>
<td>30</td>
<td>3</td>
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### TABLE OF SIGNAL STRUCTURE VARIABLES (CONT.)

<table>
<thead>
<tr>
<th>STRUCTURE NUMBER</th>
<th>POLE BASE CONNECTION (ft)</th>
<th>SHAFT AND PIENT,</th>
<th>LUMINARE AND LUMINARE CONNECTION (SEE NOTE 1/ISHEET 7-B)</th>
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<tbody>
<tr>
<td>POLE 1-3</td>
<td>6</td>
<td>41</td>
<td>1.75</td>
</tr>
</tbody>
</table>

**NOTES:**

1. Work this Drawing with Design Standards Index AASHTO and ITT as necessary.
2. Design Wind Speed = 100 mph
3. Contractor shall coordinate and/or site requirements with Fabricator.
4. Contractor shall identify Structure Numbers and submit detailed shop drawings.

**FOOTNOTES:**

2. Assumptions and Values used in design:
   - Soft Type Cohesiveness (Coh)
   - Soft Layer Thickness = 20 ft.
   - Soft Friction Angle = 28 degrees
   - Soft Weight = 35 psf
   - Design Water Table is 0.1 ft. below surface

---

[Signature: 02-14-05]
<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>SHEET NUMBERS</th>
<th>TOTAL SHEET</th>
<th>GRAND TOTAL</th>
<th>REF. SHEET</th>
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<tbody>
<tr>
<td>L-5</td>
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<td></td>
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<tr>
<td>L-8</td>
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</tr>
<tr>
<td>955-1-1</td>
<td>DIRECTORS, D/C, LESS THAN 12'</td>
<td>LF</td>
<td>103</td>
<td>300</td>
<td>45</td>
<td>411</td>
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<td>955-3-0</td>
<td>CONDUCTOR D/C, INSULATED, NO. 3</td>
<td>LF</td>
<td>745</td>
<td>240</td>
<td>200</td>
<td>575</td>
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<td>955-3-03</td>
<td>CONDUCTOR A/C, INSULATED, NO. 3</td>
<td>LF</td>
<td>1560</td>
<td>3775</td>
<td>1000</td>
<td>1170</td>
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<tr>
<td>955-2-05</td>
<td>CONDUCTOR A/C - UNDERGROUND IN PONE SCHEDULE NO. 25</td>
<td>LF</td>
<td>130</td>
<td>512</td>
<td>40</td>
<td>250</td>
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<tr>
<td>955-2-045</td>
<td>CONDUCTOR A/C - UNDERGROUND IN PONE SCHEDULE NO. 45</td>
<td>LF</td>
<td>130</td>
<td>512</td>
<td>40</td>
<td>250</td>
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<tr>
<td>955-7-4</td>
<td>LOAD CENTER P &amp; I (COOLING VOLTAGE)</td>
<td>EA</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>955-4-6</td>
<td>PULL BOX P &amp; I (PLOWED - WRECKED)</td>
<td>EA</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>955-55-90</td>
<td>LIGHT POLE COMPLETE ALUMINUM, TOP MODIFIED</td>
<td>EA</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>955-88-40</td>
<td>LIGHT POLE COMPLETE ALUMINUM, STANDARD 40'</td>
<td>EA</td>
<td>1</td>
<td>1</td>
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</tbody>
</table>

**TOTAL SHEET:**

**GRAND TOTAL:**

**REF. SHEET:**
GENERAL NOTES:

1. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST BE SPECIFIC TO:
   a) Unwire Photometrics
   b) Pole Strength Calculations
   c) Transient Overvoltage Test
   d) Bolt Specifications and Bolt Circle Diameter
   e) Pole Shop Drawings

2. SEVEN (7) COPIES OF SHOP DRAWINGS AND DESIGN DATA FOR ROADWAY LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

3. TWO OWNERS:
   a) BOHNS SPRINGS UTILITIES
      1000 EAST TERRY STREET
      BOHNS SPRINGS, FL 32928
      ATTN: W. PATRICK JENNINGS
      (239) 333-9638
   b) LEE COUNTY DOT
      3500 SOUTHLANDS DR
      FT. MYERS, FL 33907
      ATTN: W. M. BENNETT
      (239) 533-8600

4. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNERS AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNERS FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.

5. FLORIDA STATUTE 556 REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE UTILITY OWNER NOT LESS THAN TWO (2) AND NO MORE THAN FIVE (5) FULL BUSINESS DAYS. NOT ALL UTILITY OWNERS ARE MEMBERS OF "SOSRUN" 1-800-432-4770.

6. 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.

7. ALUMINUM POLES, UIMPACTERS AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH ANSI-100. "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, UIMPACTERS AND TRAFFIC SIGNALS" AND THE LOCAL CODE AND SHALL HAVE BEEN TESTED BY FM-A-APPROVED METHODS.

8. THE CONTRACTOR SHALL CERTIFY THAT ALL UTILITY OWNERS ARE COMPLIANCE WITH THE FM-A-APPROVED METHODS.

9. THE CONTRACTOR SHALL NOTIFY FM-A AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 10' OF ENERGIZED ELECTRICAL CONDUCTORS.

10. IF AN OPTION OR INSTALLATION SITE, THE CONTRACTOR SHALL OBTAIN FM-A APPROVAL AND INSTALLATION SPECIFICATIONS OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY.

11. ALL CONSULTANTS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE SPECIFIED IN THE PLANS.

12. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE LIGHTING POLE FOUNDATION OR CONDUCTOR RUN, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE FIRST 4" OF THE POLE FOR FOUNDATION AND CONDUCTOR RUN.

13. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISIONS THAT REQUIRE THE PREPARATION AND INSTALLATION OF AN EROSION CONTROL PLAN THAT ADDRESSES PREVENTION, CONTROL AND ABATEMENT OF WATER POLLUTION.

14. 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 CAN NOT BE BACKFILLED IN THE SAME DAY/SHIFT OPERATION.

15. ALL EXCESS DIRT AND DREDGE EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER PAY ITEMS 75-59-140 AND 75-63-6-1.

16. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.

17. THE LIGHTING SYSTEM WILL BE MAINTAINED BY LEE COUNTY UPON FINAL ACCEPTANCE.

PAY ITEM NOTES:

1. ITEM 75-5-100 AND 75-11-1: INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE ROADWAY AND TRAFFIC DESIGN STANDARDS. PAYMENT SHALL BE BASED ON LINEAR FEET OF SINGLE CONDUCTOR.

2. ITEMS 75-7-100 AND 75-7-20: INCLUDE ADJUSTABLE FITTINGS, SADDLES, AERIALCABLE, VREACHING AND BACKFILL AS INDICATED IN THE PLANS AND DESIGN STANDARDS. THE LINEAR FOOT PRICE FOR CONDUCTOR SHALL ALSO INCLUDE THE COST OF INSTALLATION OF A TYPICAL "A" TYPE MILD STEEL CONDUIT.

3. ITEM 75-5-11-1: INCLUDE METER BASE, SERVICE POLE INSULATORS, WEATHERHEADS, TRANSFORMERS, EXCLOSURES, PANEL BOARDS, BREAKEAS, FUSES, LIGHTING PROTECTORS, PHOTO ELECTRIC ASSEMBLIES, CONDUIT, FEEDER CONNECTORS, FULL BOX AND ALL WIREWORK FOR A COMPLETE INSTALLATION AS PER PLANS AND STANDARD INDUSTRY 75-04 DETAIL "A." INCLUDE THE COST OF INSTALLATION FOR SERVICE PANELS.

4. ITEMS 75-5-14-10 AND 75-11-1: INCLUDE THE HARDWARE OR EQUIVALENT POLE AND ARM, LUMINARIES WITH LAMP, ANCHOR BOLTS, AND LOCK NUTS, REINFORCEMENT IN THE BOX LIKE THE ADJACENT SURROUNDING, AROUND EACH POLE, TO ITS ORIGINAL CONDITION IS INCLUDED IN THIS PAY ITEM. BREAM-AMP FUSE SHALL BE INSTALLED IN THE POWER RECEIPTABLE AND A COPPER SUG IN THE NEUTRAL RECEIPTABLE.
# POLE DATA

<table>
<thead>
<tr>
<th>POLE NO.</th>
<th>CIRCUIT</th>
<th>STATION</th>
<th>DIST OR ARM</th>
<th>UNWEIGHTED</th>
<th>MOUNTING HEIGHT</th>
<th>TILT</th>
<th>POLE SETUP</th>
<th>STD FRONT OF BASE</th>
<th>RFA</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>A-1</td>
<td>X-20, +40.8, +40.8 LT.</td>
<td>-</td>
<td>440W</td>
<td>40&quot;</td>
<td>10°</td>
<td>2.88&quot; FACE OF CURB</td>
<td>75-56-140</td>
<td>2</td>
<td>40 PVC conduit with U/E/SP conduit inside conduit and conductor size shown on plan sheets. Non ins. 6 AWG copper bond conductor (1/NM or THHN green insulated) inside conduit with other conductors.</td>
</tr>
<tr>
<td>2</td>
<td>A-1</td>
<td>X-14, +39.0, +39.0 LT.</td>
<td>-</td>
<td>440W</td>
<td>40&quot;</td>
<td>10°</td>
<td>2.88&quot; FACE OF CURB</td>
<td>75-56-140</td>
<td>2</td>
<td>80 HDPE conduit with U/E/SP conduit inside conduit and conductor size shown on plan sheets. Extend conduit beyond edge of pavement to pull boxes when installing inside conduit with other conductors.</td>
</tr>
<tr>
<td>3</td>
<td>B-1</td>
<td>8-47.46, 8-47.46 LT.</td>
<td>-</td>
<td>440W</td>
<td>40&quot;</td>
<td>10°</td>
<td>2.88&quot; FACE OF CURB</td>
<td>75-56-140</td>
<td>2</td>
<td>Pull box. Shall meet Lee County specifications for size and type.</td>
</tr>
<tr>
<td>4</td>
<td>B-1</td>
<td>7-43.95, 7-43.95 LT.</td>
<td>-</td>
<td>440W</td>
<td>40&quot;</td>
<td>10°</td>
<td>2.88&quot; FACE OF CURB</td>
<td>75-56-140</td>
<td>2</td>
<td>Distribution point. Service panel shall be scribed A Night. SS 아형 Stainless Steel P/N 8003 S9630-A6.</td>
</tr>
</tbody>
</table>

## LEE COUNTY LIGHTING DESIGN CRITERIA

Minimum Intensity: 1.0 Foot Candles

Uniformity Ratio Avg./Min.: 49 Or Less

Max./Min.: 120 Or Less

Wind Speed: 100 MPH

## PERFORMANCE SPECIFICATIONS

**MECHANICAL CONSTRUCTION:**

The housing, cover and fittings shall be cast of low copper (Cu90) alloy. They shall be pretreated with zinc phosphat and chromated with a chromate solution. The steel shall be protected with a chromate coating and a aliphate paint. The finish shall be a epoxy coated with a 48-hour dry time. The finish shall be a polyester powdercoat. The finish shall be a polyester powdercoat.

**ELECTRICAL CONNECTION:**

The contacts shall be made with a lugs of 0.75 x 0.25 and a 3/8" diameter. The conductor shall be made with a lugs of 0.75 x 0.25 and a 3/8" diameter. The conductor shall be made with a lugs of 0.75 x 0.25 and a 3/8" diameter.

**FINISH COLO:**

High gloss, black, flat finish.

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High gloss, black, flat finish.

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High gloss, black, flat finish.

**FINISH COLO:**

High gloss, black, flat finish.
SINGLE FIXTURE VERTICAL POLE SLIPFITTER MOUNTED DETAIL
N.T.S.

SINGLE FIXTURE HORIZONTAL ARM SLIPFITTER MOUNTED DETAIL
N.T.S.

LUMINAIRE:
400 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH FLAT GLASS OPTICS
DESIGNED FOR CUTOFF TYPE III DISTRIBUTION, INTERNAL MAGNETIC
REGULATOR TYPE DALLAST WIRING FOR 400 VOLT OPERATION. LAMP MUST
PRODUCE A MINIMUM OF 50,000 INITIAL LUMENS. FIXTURE SHALL BE INSTALLED
AT THE SPECIFIED TILT IN THE PLANS. THE CONTRACTOR SHALL FIELD VERIFY
THE TILT AFTER INSTALLATION AND ERECTION OF THE POLE.

POLE:
TAPERED SPUN ALUMINUM POLE, POLE TO BE DESIGNED TO CURRENT DESIGN CRITERIA
AND ASHETO 100 MILE WIND LOAD.