# STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

# FINAL AS-BUILT PLANS CONTRACT PLANS

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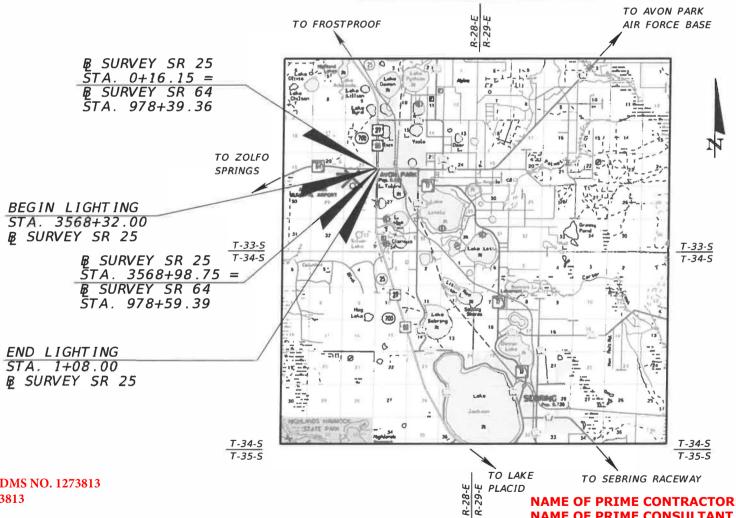
L-4 LIGHTING PLAN

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FINANCIAL PROJECT ID 434986-1-52-01 (FEDERAL FUNDS)

HIGHLANDS COUNTY (09030000 & 09080000) STATE ROAD NO. 25 (US 27)

## LIGHTING PLANS



SUBMITTAL DATA - LIGHTING - FINAL - EDMS NO. 1273813 DIRECTIONAL BORE LOGS - EDMS NO. 1273813

NAME OF PRIME CONTRACTOR: CONCRETE SERVICES LLC NAME OF PRIME CONSULTANT CONSTRUCTION ENGINEERING INSPECTION: WOOD E&I SOLUTIONS DISTRICT SECRETARY: L.K. NANDAM, P.E. PROJECT MANAGER: STACY HILL / SUSAN HINDMAN PROJECT ADMINISTRATOR: TODD BOEHMER, P.E. DATE WORK STARTED: JUNE 4, 2018 DATE OF FINAL ACCEPTANCE: OCTOBER 1, 2019

PENSACOLA FORT WALTON
BEACH
PANAMA
CITY

ST AUGUSTINE
GINES ILLE

CALA
DAYTONA BEACH
DELAND

NEW PORT RICHEY
TAMPA
ST PETERSBURG

SARASOTA
BRADENTON

FT PIERCE

WEST PALM
BEACH

LOCATION OF PROJECT

NAPLES

NAPLES

FT LAUDERDALE
MIAMI

KEY WEST

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

## Digitally signed by Christopher R Wence

Date: 2017.12.15 14:07:31 -05'00'

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### LIGHTING PLANS ENGINEER OF RECORD:

CHRISTOPHER RYAN WENCE, P.E.
P.E. NO.: 77587
COMPREHENSIVE ENGINEERING SERVICES, INC.
201 S. ORANGE AVENUE, SUITE 1300
ORLANDO FLORIDA, 32801
(407) 423-1600
CONTRACT NO.: C9H62
VENDOR NO.: F593472222001
CERTIFICATE OF AUTHORIZATION NO.: 7862

#### FDOT PROJECT MANAGER:

AMY E. BLAIR, P.E.

CONSTRUCTION	FISCAL	SHEET		
CONTRACT NO.	YEAR	NO.		
T1701	18	L-1		

ORI ENGINE

STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ON THE DATE INDICATED HERE

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Date	Name	Position (Title)	Review Type, If Applicable								
RESIDENT (	RESIDENT OFFICE										
DISTRICT O	FFICE										

R E V I S I O N S  DATE DESCRIPTION DATE DESCRIPTION				
DATE	DESCRIPTION		DATE	DESCRIPTION

## TABULATION OF QUANTITIES

PAY ITEM	DESCRIPT ION	UNIT	SHEET NUMBERS						TO TH SHE	TAL IIS EET	GRAND TOTAL			
NO.						I FINAL PLAN FINAL F		Ν ΕΙΝΔΙ	PLAN FINAL	PI AN FINAL	PI AN FINA			PIAN FINAL
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	57	<b>√</b>	, , ,	7777	12 / 2/1	7 77772	7 2700 7 170712	7 2700 7 77072	7 2700 7 7707	57		57 🗸
	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	650	<del></del>								650		650
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	11	10								11		11 10
	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS		<b>√</b>			+					1	10	1 1
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA		<del>-</del> √								1	<del>,</del>	1
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8-6	LF	2841				1					2841	1	2841 🗸
0715 4 12	LIGHT POLE COMPLETE, F&I STANDARD POLE, STANDARD FOUNDATION, MOUNTING HEIGHT 35'	EA		1						i		8		8 🗸
0715500 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA		1								8	<b>√</b>	8 🗸
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### PAY\_ITEM\_NOTES

1. ITEM 639-1-122: DISCONNECT TO INCLUDE A PHOTOELECTRIC CELL FOR THE LIGHTING CIRCUIT LOCATED ON THE DISCONNECT BOX.

Comprehensive Engineering Services, Inc.	REVISIONS Comprehensive Engineering					
201 S Orange Ave, Suite 1300	DESCRIPTION	DATE	DESCRIPTION	DATE		
Orlando, FL 32801-3442						
Certificate of Authorization No. 7862						
Christopher Ryan Wence, P.E., License No. 775						

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION								
ROAD NO.	COUNTY	FINANCIAL PROJECT ID						
SR 25 HIGHLANDS 434986-1-52-01								

TABULATION OF QUANTITIES

SHEET NO.

L-2

715/2017 2:06:21 PM 1:\Pro.rects\1401213\43498615201\\rahtrna\1.AB0L

### LEGEND:

Proposed light pole with 210 watt LED luminaire. Designed for Type II, Short, B3-U0-G3, 4000K CCT and wired for 120 volt operation. Includes uplight skirt. Shoulder mounted aluminum pole with 0° tilt, 35 ft. mounting height and 8 ft. arm. Use MGLED curve LTL24013-2P21 (MGLED\_5\_4\_5K\_AX\_M\_L\_X\_X\_US.ies) or equal. Symbol includes pole, arm, fixture, foundation, slab, pull box, and pole cable distribution system. For non-standard slabs see slab detail on this sheet.

715-4-12 715-500-1 635-2-11

Proposed light pole with 210 watt LED luminaire. Designed for Type II, Short, B3-U0-G3, 4000K CCT and wired for 120 volt operation. Includes uplight skirt. Shoulder mounted aluminum pole with 0° tilt, 35 ft. mounting height and 8 ft. arm. Use MGLED curve LTL24013-2P21  $(MGLED\_5\_4\_5K\_AX\_M\_L\_X\_X\_US.ies)$  or equal. Symbol includes pole, arm, fixture, foundation, pull box, and pole cable distribution system.

715-4-12 715-500-1 635-2-11

Electrical service disconnect with meter, 120 volt, see lighting plan for location. Electrical service provider is Duke Energy. Symbol includes service and service pole.

639-1-122 641-2-12

Lighting pull box with concrete slab.

635-2-11

2" directional bore conduit (includes spare) with conductors as shown in plans.

630-2-12 715-1-12

DATE

2" open trench conduit with conductors as shown in plans.

630-2-11 715-1-12

#### SIGNALIZED INTERSECTION LIGHTING DESIGN CRITERIA

Horizontal Average Initial Intensity Uniformity Ratio Avg./Min.

Max./Min. Vertical Average Initial Intensity \*\* Design Wind Speed

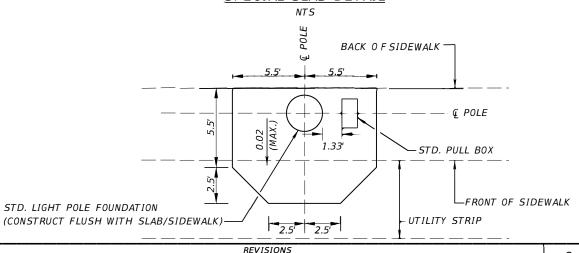
DESCRIPTION

3.0 Foot Candles 4:1 Or Less 10:1 Or Less 2.3 Foot Candles 120 MPH (Highlands County)

Vertical illuminance for near side movement, right turn approach, and left turn approach. The vertical illumination is a target value and was not achievable for all traffic movements.

DATE

## SPECIAL SLAB DETAIL



DESCRIPTION

	POLE NO.	CIRCUIT	STATION	POLE OFFSET	MOUNT IN G HE I GHT	POLE TYPE	ARM LENGTH	ARM CONFIGURATION
	100	A-1	3568+37	73.51' Lt.	35'	STANDARD	8'	SINGLE
	101	A-1	3568+35	25.72' Rt.	35'	STANDARD	8'	SINGLE
	102	A-1	3568+58	94.22' Lt.	35'	STANDARD	8'	SINGLE
*	103	A-1	3568+71	74.08' Rt.	35'	STANDARD	8'	SINGLE
	104	A-1	0+63	83.32' Lt.	35'	STANDARD	8'	SINGLE
	105	A-1	0+77	100.34' Rt.	35'	STANDARD	8'	SINGLE
	106	A-1	0+98	71.08' Rt.	35 '	STANDARD	8 '	SINGLE
	107	A-1	1+05	47.56' Lt.	35'	STANDARD	8'	SINGLE
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<sup>\*</sup> REQUIRES SPECIAL SLAB. SEE DETAIL ON THIS SHEET.

#### GENERAL NOTES

Comprehensive Engineering Services, Inc.

201 S Orange Ave, Suite 1300

Orlando, FL 32801-3442

Certificate of Authorization No. 7862

Christopher Ryan Wence, P.E., License No. 77587

- 1. CONTACT THE MAINTAINING AGENCY (CITY OF AVON PARK: JULIAN DELEON, 863-452-4403) TO CONFIRM POLE SEQUENCING NAME AND NUMBER.
- 2. ELECTRICAL POWER SERVICE SHALL CONFORM TO THE LATEST EDITION OF DUKE ENERGY'S "REQUIREMENTS FOR ELECTRIC SERVICE AND METER INSTALLATION" AND INCLUDE ANY APPLICABLE FEES.
- 3. POINT OF ELECTRIC SERVICE CONNECTION IS TO BE COORDINATED WITH DUKE ENERGY.
- 4. SIGNALIZATION MAINTAINED BY HIGHLANDS COUNTY TRAFFIC OPERATIONS. POINT OF CONTACT EDDIE CARDONA (863-402-6536).

POLE DATA, LEGEND,

SHEET NO.

& GENERAL NOTES

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STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

COUNTY

HIGHLANDS

ROAD NO.

SR 25

FINANCIAL PROJECT ID

434986-1-52-01

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