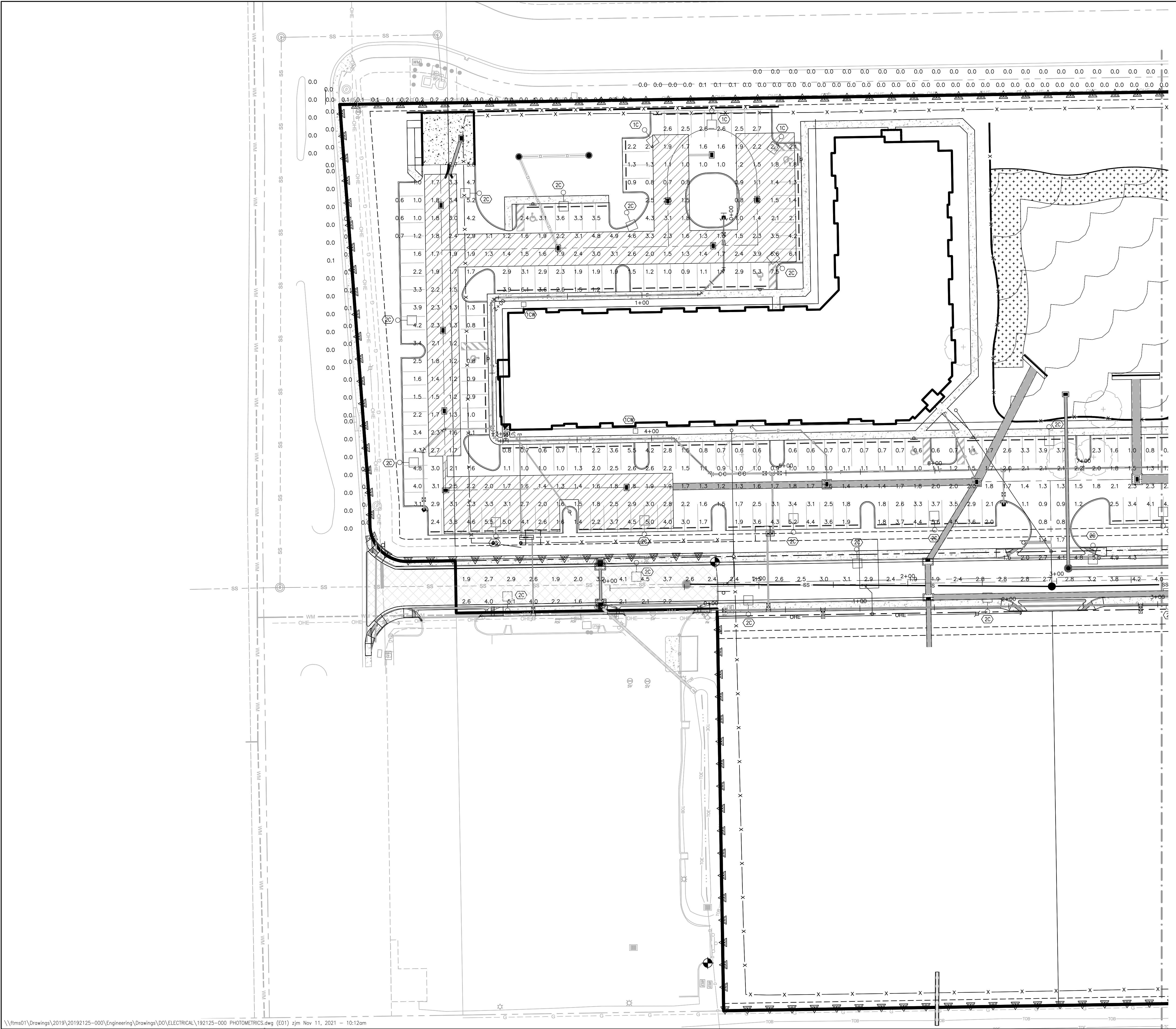


JOHNSON
ENGINEERING

JOHNSON ENGINEERING, INC.
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ZIMMER DEVELOPMENT
COMPANY

INSPIRATION AT SOUTH PONTE
LEE COUNTY, FLORIDA

REVISIONS	DATE
NO.	
DESCRIPTION	

DATE: JUNE 2021
PROJECT NO. 20192125-000
FILE NO. 15-45-24
SCALE: 1" = 30'

PHOTOMETRICS
PLAN

SHEET NUMBER
E01

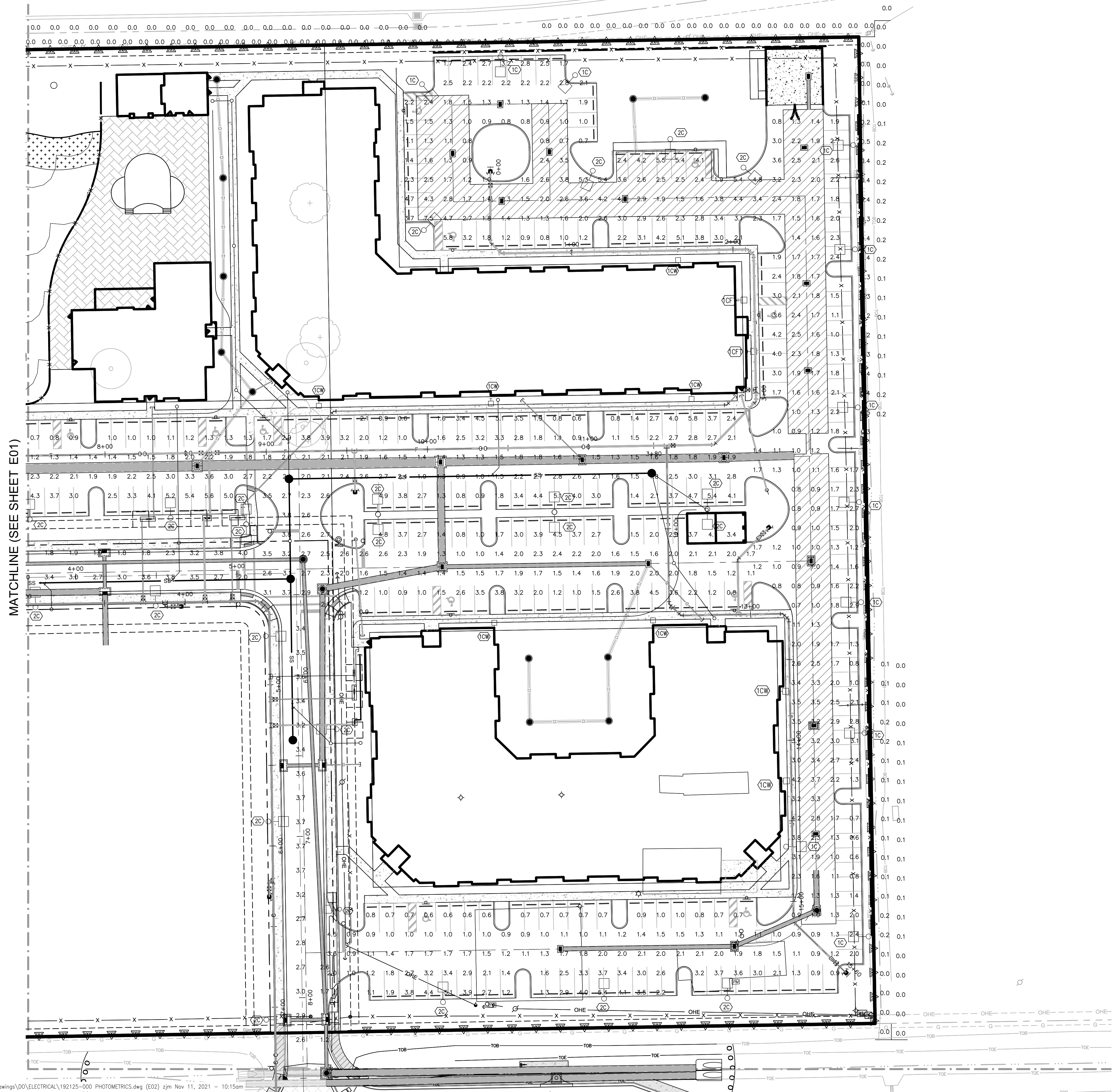
[illegible]

DATE:	JUNE 2021
PROJECT NO.	20192125-000
FILE NO.	15-45-24
SCALE:	1" = 30'

PHOTOMETRICS
PLAN

SHEET NUMBER

E02



<i>CALLOUT</i>	<i>SYM.</i>	<i>QTY.</i>	<i>WATTS</i>	<i>MTG</i>	<i>DESCRIPTION</i>	<i>LUMENS</i>	<i>LUMINAIRE</i>	<i>POLE</i>	<i>BUC RATING</i>	<i>VOLTS</i>	<i>IES FILE</i>	<i>ELEV</i>
1C		14	(1) 67W	POLE MOUNT, DIRECT BURIAL	GALLEON AREA AND ROADWAY LUMINAIRE(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD, WEIGHT = 33 LBS, EPA = 0.96, DARK PLATINUM	3960	COOPER LIGHTING SOLUTIONS – GLEON-SA1A-750-U-SL4-HSS-DP	HAPCO: RSA-16-B-5-D-01, EPA = 1.5 @ 150MPH W/VIB. DAMPENER, SATIN ALUMINUM FINISH	B1-U0-G3	MULTIPLE	GLEON-SA1A-750-U-SL4-HSS	16'
1CFT		2	(1) 59W	WALL MOUNT	GALLEON WALL LUMINAIRE(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS, DARK PLATINUM	7599	EATON GAW-SA1C-750-U-T4FT-DP	N/A	B1-U0-G3	MULTIPLE	GAW-SA1C-750-U-T4FT	12'
1CW		10	(1) 59W	WALL MOUNT	GALLEON WALL LUMINAIRE(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS, DARK PLATINUM	7502	EATON GAW-SA1C-750-U-T4W-DP	N/A	B2-U0-G2	MULTIPLE	GAW-SA1C-750-U-T4W	12'
2C		41	(1) 113W	POLE MOUNT, DIRECT BURIAL	GALLEON AREA AND ROADWAY LUMINAIRE(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD, WEIGHT = 33 LBS, EPA = 0.96, DARK PLATINUM	13751	EATON GLEON SA2C-750-U-SL4-HSS-DP	HAPCO: RSA-20-D-5-D-01, EPA = 1.3 @ 150MPH W/VIB. DAMPENER, SATIN ALUMINUM FINISH	B2-U0-G4	MULTIPLE	GLEON-SA2C-750-U-SL4-HSS	20'

AVERAGE FOOT-CANDLES	2.1
MAXIMUM FOOT-CANDLES	7.5
MINIMUM FOOT-CANDLES	0.6
AVERAGE TO MINIMUM FC RATIO	3.8

AVERAGE FOOT-CANDLES	0.0
MAXIMUM FOOT-CANDLES	0.2
MINIMUM FOOT-CANDLES	0.0

AVERAGE FOOT-CANDLES	2.9
MAXIMUM FOOT-CANDLES	5.1
MINIMUM FOOT-CANDLES	1.2
AVERAGE TO MINIMUM FC RATIO	2.4

AVERAGE FOOT-CANDLES	0.1
MAXIMUM FOOT-CANDLES	0.5
MINIMUM FOOT-CANDLES	0.0

1. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA BUILDING CODE, N.E.C., RELEVANT LAND DEVELOPMENT AND LOCAL CODES
2. WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND COSTS FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM.
3. ALL EQUIPMENT, FIXTURES, ETC. SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION BY THE CONTRACTOR. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY, AND SHALL REPAIR SUCH DEFECTS WITHOUT COST TO THE OWNER. CONTRACTOR SHALL FURNISH ALL WARRANTIES TO THE OWNER.
4. TANDEM CIRCUIT BREAKERS WILL NOT BE PERMITTED.
5. CONDUCTORS SHALL BE TYPE THHN/THWN, OR XHHW COPPER. ALL CONDUCTORS SHALL BE RATED FOR 75C.
6. ALL ELECTRICAL EQUIPMENT SHALL BE ADEQUATELY LABELED WITH ENGRAVED PLASTIC LABELS PERMANENTLY AFFIXED TO THE EQUIPMENT ENCLOSURE.
7. CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. EXPOSED CONDUIT ABOVE GRADE SHALL BE SCHEDULE 80 PVC.
8. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE REQUIREMENTS OF NEW WORK.
9. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE GENERAL SCOPE OF WORK TO INDICATE THE APPROXIMATE LOCATIONS OF WORK. ALL ITEMS REQUIRED FOR A COMPLETE INSTALLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.COORDINATE ALL WORK WITH THE AUTHORITIES HAVING JURISDICTION AND THE LOCAL UTILITIES.
10. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED AS A RESULT OF THIS WORK.
11. POLE LOCATIONS SHALL BE COORDINATED WITH OTHER CONSTRUCTION. IF A PROPOSED POLE LOCATION CONFLICTS WITH OTHER CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED SO THAT THE LOCATION CAN BE ADJUSTED ACCORDINGLY.
12. PHOTOMETRICS VALUES ARE DERIVED FROM DESIGN MASTER PHOTOMETRICS SOFTWARE VER. 1.1.33
13. PHOTOMETRIC CALCULATIONS DO NOT INCLUDE A LIGHT LOSS FACTOR.
14. AT THE TIME OF INSPECTION FOR A CERTIFICATE OF COMPLIANCE, INITIAL ILLUMINATION MAY NOT EXCEED 0.5 FOOTCANDELS AT THE PROPERTY LINE, OR 0.2 FOOTCANDELS MEASURED AT 10-FT INTO AN ADJACENT RESIDENTIALLY ZONED PROPERTY.

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20  www.hapco.com **FLORIDA BUILDING CODE GUIDE**
2010/2014 FBC EPA's **WARNING:** Do not install light pole without luminaire.

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EPA Note:
EPA is based on symmetrically placed side mounted fixture(s) not exceeding height of the pole.

FLORIDA BUILDING CODE GUIDE
2010/2014 FBC EPA's

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Energy and Performance Data

Lumen Maintenance (TM-21)							Lumen Multiplier	
Drive Current	Ambient Temperature	25,000 hours	50,000 hours	60,000 hours	100,000 hours	Theoretical 1% hour	Ambient Temperature	Lumen Multiplier
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M	0°C	1.02
	35°C	98.7%	98.3%	98.1%	97.4%	> 1.9M	10°C	1.01
	45°C	98.2%	97.2%	96.8%	95.2%	> 851,000	25°C	1.00
	55°C	98.0%	99.0%	98.9%	98.3%	> 2.4M	40°C	0.99
1.2A	25°C	98.4%	97.9%	97.7%	96.7%	> 1.3M	50°C	0.97

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