



**LEGEND**

- ⊙-⊙ EXISTING FPUA COBRA HEAD STREET LUMINAIRE
- ⊕ EXISTING FLOOD LIGHT FIXTURE
- ⊙-□ EXISTING SITE LUMINAIRE - 16' AFG
- 0.0 FOOTCANDLE READING
- ★ EXISTING FPUA ORNAMENTAL LUMINAIRE
- EXISTING RECESSED DOWN LIGHT
- ⊕ EXISTING CFL WALL SCONCE
- EXISTING SURFACE MOUNTED FLUORESCENT FIXTURE

**PARKING AREA**  
 MINIMUM FOOT CANDLES = .02  
 AVERAGE FOOT CANDLES = 1.50  
 UNIFORMITY = 75.0

**SIDE WALKS AREA**  
 MINIMUM FOOT CANDLES = .03  
 AVERAGE FOOT CANDLES = 2.2  
 UNIFORMITY = 73.0

**FIELD LIGHT MEASUREMENT NOTES:**

THIS PARKING AREA IS WITHIN THE CITY OF FORT PIERCE, AND IS SUBJECT TO LIGHTING REGULATIONS FOUND IN CHAPTER 22, ARTICLE IV, SECTIONS 22-58 AND 22-60 OF THE FORT PIERCE MUNICIPAL CODE.

22-58  
 CODE REQUIRES THE INTERIOR SIDEWALKS SHALL BE PROVIDED WITH A MINIMUM AVERAGE OF ONE FOOT-CANDLE. THE FIELD MEASUREMENTS INDICATE THAT COMPLIANCE IS ACHIEVED ON MOST, BUT NOT ALL INTERIOR SIDEWALK AREAS.

22-60  
 (1)b. CODE REQUIRES THE OFF-STREET PARKING IN THIS CASE SHALL BE PROVIDED WITH A MINIMUM AVERAGE OF ONE FOOTCANDLE ON THE PAVEMENT. THIS PLAN PROVIDES AN AVERAGE OF 1.5 FOOT-CANDLES WHICH IS COMPLIANT WITH CODE. HOWEVER, MANY AREAS OF THE PARKING LOT HAVE LESS THAN 0.2 FOOT-CANDLES, WHICH IS THE MINIMUM IES RECOMMENDED LEVEL FOR PEDESTRIAN SAFETY.

(2) THE EXISTING UNIFORMITY RATIO OVER THE PARKING AREAS IS 75 TO 1. THIS DOES NOT COMPLY WITH CODE.

(3) LIGHTING CONTROL COMPLIES WITH CODE. LIGHTS ARE ON AT NIGHT AND OFF DURING THE DAY TIME.

(4) SPILL COMPLIES WITH CODE OR IS ONTO PUBLIC STREETS WITH ACCEPTABLE GLARE WITH ONE EXCEPTION. THE RESIDENCE IMMEDIATELY TO THE SOUTH OF THE SOUTHWEST CORNER OF THE PROPERTY RECEIVES SPILL IN EXCESS OF 0.5 FC FROM THE FPUA STREET LIGHT ON 6TH STREET AND FROM THE PARKING LOT LIGHT LOCATED AT THE SOUTHWEST CORNER.

THE CURRENT INSTALLATION'S EFFECTIVENESS IS ALSO HAMPERED BY TREES LOCATED IN THE SAME PARKING ISLANDS AS THE LIGHT POLES WHICH PREVENT SIGNIFICANT AMOUNTS OF LIGHT FROM REACHING THE PARKING LOT SURFACE. A KEY FPUA 250W HPS RENTAL LIGHT ON THE WEST SIDE OF THE PROPERTY WAS NOT LIT. LIGHT OUTPUT FROM FPUA ORNAMENTAL STREET LIGHTS ON GEORGIA AVENUE AND SUNRISE WAS GENERALLY GOOD, BUT NOT SUFFICIENT TO PROVIDE A ONE FOOT-CANDLE AVERAGE IN THE ADJACENT PARKING AREAS BY THEMSELVES.

**SITE LIGHTING - EXISTING PHOTOMETRIC PLAN**  
 SCALE 1" = 30'-0"

NO.	DATE	REVISIONS

**Fort Pierce Engineering, Inc.**  
 Dependable Mechanical, Electrical & Plumbing Design  
 C.A. No. 28173

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**CLIENT:**  
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**PROJECT NAME:**  
 SUNRISE PLAZA ARCADE

**PROJECT LOCATION:**  
 509 GEORGIA AVE.  
 FORT PIERCE, FLORIDA

**ENGINEER SEAL**

Timothy C. Trawin, PE  
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<b>SHEET TITLE</b>
<b>SITE LIGHTING EXISTING PHOTOMETRIC PLAN</b>
ISSUE DATE: 07-17-2014
DRAWN: TCT
APPROVED: TCT
<b>DRAWING NUMBER</b>
<b>E-1.1</b>
SHEET 1 OF 2
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