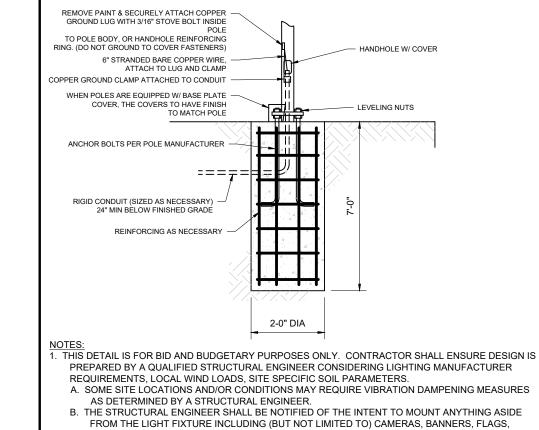


GENERAL LIGHTING NOTES

- 1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE ELECTRICAL CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE ELECTRICAL CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- 2. THE ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE PLANS, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL AGENCY AND GOVERNMENTAL PEGLIATIONS.
- 3. THE LIGHTING PLAN DEPICTS PROPOSED, SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- 4. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED. ILLUMINATION
- LEVELS ARE SHOWN IN FOOT-CANDLES (FC).

 5. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL OBSERVATION, CLEANING OF LENSES, AND RE-LAMPING ACCORDING TO MANUFACTURER RECOMMENDATIONS. FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED DESIGN. UPON COMPLETION AND OWNER'S ACCEPTANCE OF THE WORK, THE ABOVE RESPONSIBILITIES BECOMES SOLELY THE
- 6. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES. POWER SYSTEM, CONDUITS, WIRING AND OTHER ELECTRICAL COMPONENTS ARE SOLELY THE ARCHITECT'S, MECHANICAL ENGINEER'S AND/OR ELECTRICAL CONTRACTOR'S RESPONSIBILITY, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THE CONTRACTOR MUST COORDINATE WITH THE PROJECT ARCHITECT AND/OR ELECTRICAL ENGINEER REGARDING ANY AND ALL POWER SOURCES AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF LIGHTING FIXTURES AND
- APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES.

 7. THE ELECTRICAL CONTRACTOR MUST BRING IMMEDIATELY, IN WRITING, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURE(S) TO THE PROFESSIONAL OF RECORD'S ATTENTION, PRIOR TO THE START OF CONSTRUCTION.
- 8. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THAT SHIELDING AND OR ROTATED OPTICS ARE INSTALLED AS INDICATED ON THE PLAN IN ORDER TO ACHIEVE THE LIGHTING LEVELS THE REVIEWING AGENCY APPROVED.
- 9. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.
- THE LIGHT LOSS FACTORS (LLF) DEPICTED IN THE LUMINAIRE SCHEDULE ON THIS PLAN ARE BASED ON DATA PROVIDED BY THE MANUFACTURER FOLLOWING IES LM-80-08 TESTING. THE LIGHT LEVELS DEPICTED ON THIS PLAN WERE CALCULATED BASED ON THE LLF LISTED IN THE LUMINAIRE SCHEDULE.
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- 12. LIGHT POLE FOUNDATIONS ARE SHOWN ON THE PLAN IN THE INTENDED LOCATION BASED ON THE LIGHTING CALCULATIONS, UNLESS OTHERWISE NOTED. LIGHT SYMBOLS ARE SHOWN LARGER THAN ACTUAL SIZE, HOWEVER FOUNDATION SIZE IS SHOWN AT ACTUAL SIZE.



LIGHT POLE FLUSH FOUNDATION

ALL REBAR SHALL HAVE A YIELD STRENGTH OF 60ksi, AND MAINTAIN A 3" MIN CLEARANCE FROM

SIGNAGE, ETC AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.

SURFACES.

NOT TO SCALE

SITE CIVIL AND CONSULTING ENGINEERING
LAND SURVEYING
PROGRAM MANAGEMENT
LANDSCAPE ARCHITECTURE
SUSTAINABLE DESIGN
PERMITTING SERVICES
TRANSPORTATION SERVICES

REV	DATE	COMMENT	DRAWN B	
KEV	DAIL	COMMENT	CHECKED	

REVISIONS

PRELIMINARY

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY
REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION
DOCUMENT OR BIDDING UNLESS INDICATED OTHERWISE.

 PROJECT No.:
 FLB230233.00

 DRAWN BY:
 RN

 CHECKED BY:
 RN

 DATE:
 02/19/2025

 CAD I.D.:
 P-CIVL-LGHT

OJECT:

PRELIMINARY ENGINEERING PLANS

— FOR —

UNITED

PROPOSED

DEVELOPMENT

501 LAKE AVE
CITY OF LAKE WORTH BEACH
LAKE WORTH BEACH, FL

BOHLER//

1900 NW CORPORATE BOULEVARD SUITE 101E

SUITE 101E BOCA RATON, FLORIDA 33431 Phone: (561) 571-0280 Fax: (561) 571-0281

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROBERT MORGADO, PE, ON THE DATE ADJACENT TO THE SEAL. PRINTED COF

SHEET TITLE:

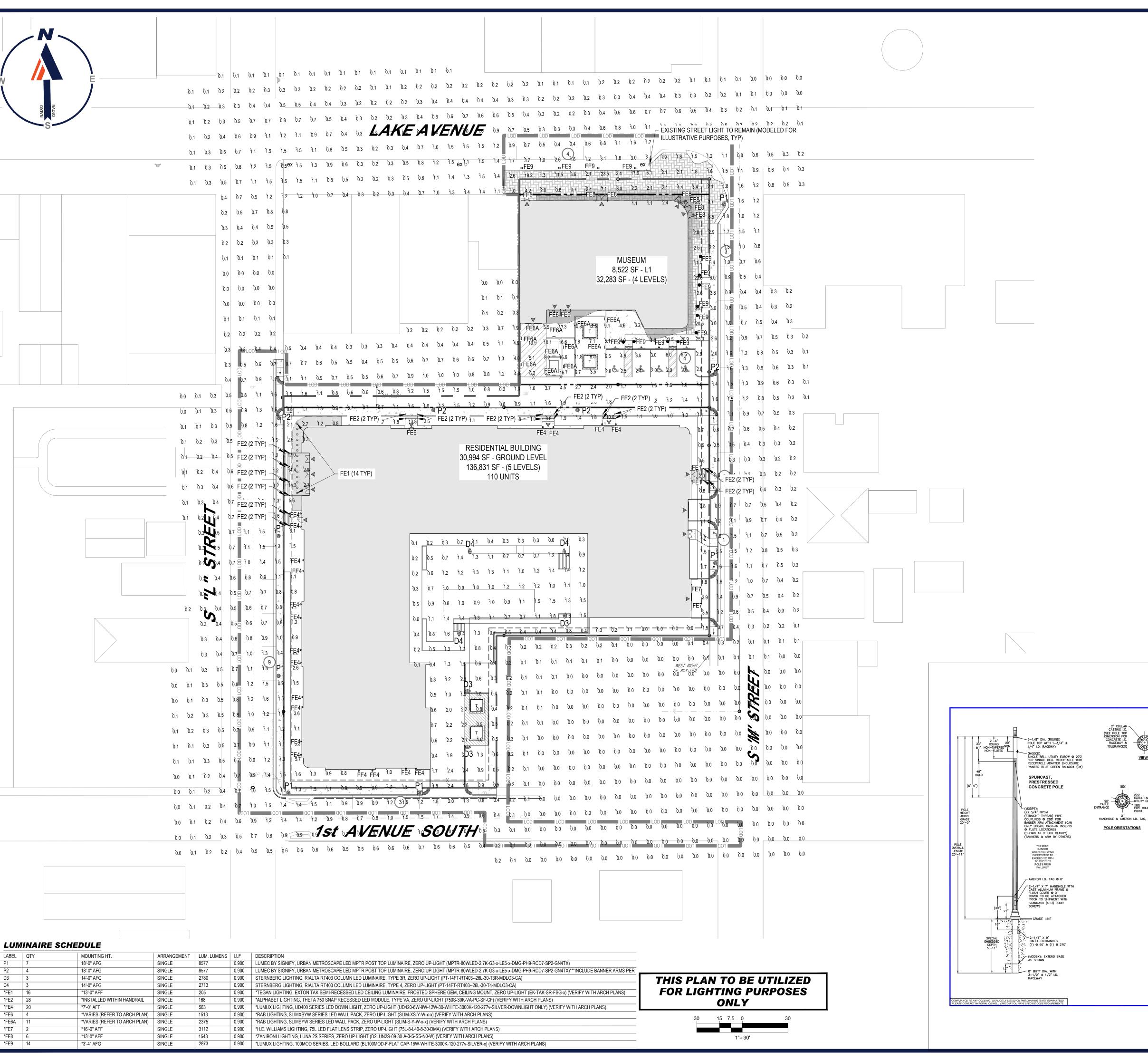
LIGHTING PLAN

THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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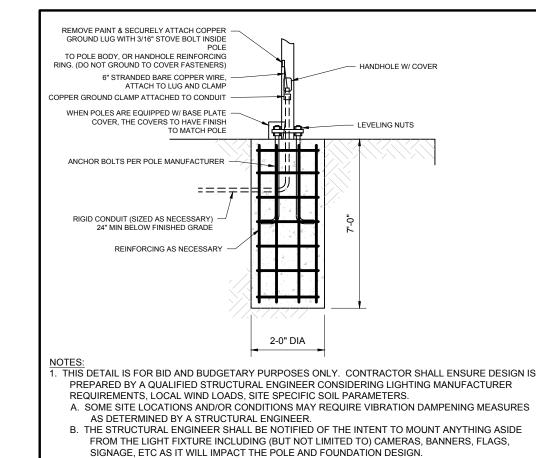
L-101

ORG. DATE - 6/25/2025



GENERAL LIGHTING NOTES

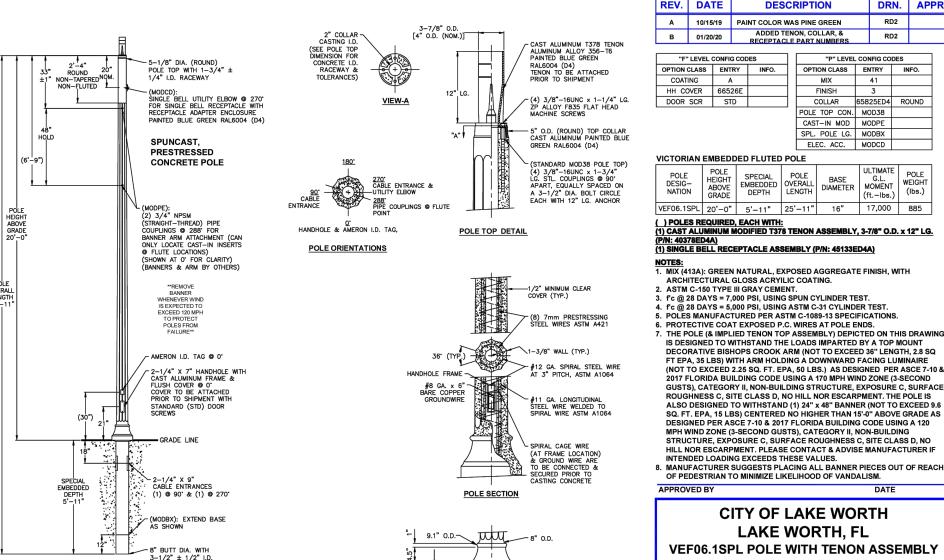
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LIGHT POLE **FLUSH FOUNDATION**

SURFACES

ALL REBAR SHALL HAVE A YIELD STRENGTH OF 60ksi, AND MAINTAIN A 3" MIN CLEARANCE FROM



BELL DETAIL

	REV.	DA.	ΤE		DES	CF	RIPTION		DR	N.	AF
	Α	10/15	i/19	PAINT COLOR WAS PINE GREEN ADDED TENON, COLLAR, & RECEPTACLE PART NUMBERS				RD2			
	В	01/20	/20						RD2		
	"F"	LEVEL CONFIG CODES				"P" LEVEL CONFIG CODES					
	OPTION CLASS ENT		ENTR	Y	INFO.	1	OPTION CLASS	OPTION CLASS ENTRY		INFO.	
	COAT	ING	Α			1	MIX		41		
	нн сс	OVER	6652	6E		1	FINISH	3 65825ED4			
	DOOR	SCR	STD)		1	COLLAR			ROUND	
						POLE TOP CON.	MOD38				
						CAST-IN MOD	MODPE				
					SPL. POLE LG.	MODBX					
						ELEC. ACC.	MODCD				
VICTORIAN EMBEDDED FLUTED POLE											

ARCHITECTURAL GLOSS ACRYILIC COATING. 2. ASTM C-150 TYPE III GRAY CEMENT f'c @ 28 DAYS = 7,000 PSI, USING SPUN CYLINDER TEST PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS. THE POLE (& IMPLIED TENON TOP ASSEMBLY) DEPICTED ON THIS DRAWIN IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A TOP MOUNT DECORATIVE BISHOPS CROOK ARM (NOT TO EXCEED 36" LENGTH, 2.8 SQ FT EPA, 35 LBS) WITH ARM HOLDING A DOWNWARD FACING LUMINAIF (NOT TO EXCEED 2.25 SQ. FT. EPA, 50 LBS.) AS DESIGNED PER ASCE 7-10 & 2017 FLORIDA BUILDING CODE USING A 170 MPH WIND ZONE (3-SECOND GUSTS), CATEGORY II, NON-BUILDING STRUCTURE, EXPOSURE C, SURFACE ROUGHNESS C, SITE CLASS D, NO HILL NOR ESCARPMENT. THE POLE IS ALSO DESIGNED TO WITHSTAND (1) 24" x 48" BANNER (NOT TO EXCEED 9 SQ. FT. EPA, 15 LBS) CENTERED NO HIGHER THAN 15'-0" ABOVE GRADE AS DESIGNED PER ASCE 7-10 & 2017 FLORIDA BUILDING CODE USING A 120 MPH WIND ZONE (3-SECOND GUSTS), CATEGORY II, NON-BUILDING STRUCTURE, EXPOSURE C, SURFACE ROUGHNESS C, SITE CLASS D, NO

CITY OF LAKE WORTH LAKE WORTH, FL **VEF06.1SPL POLE WITH TENON ASSEMBLY**

DRAWN: A.F. DATE: 03/04/2

N.T.S. 1903-007 B

THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO NATIONAL OILWELL VARCO, IT SHALL NOT BE REPRODUCED, USED OR DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN PERMISSION OF NATIONAL OILWELL VARCO.

SCALE: DWG. NO. 1903-00

SHEET NUMBER:

L-101

REVISION 1 - 02/24/2025

REV DATE

REVISIONS

COMMENT

1	2025.02.24	PER CLIENT	JRB
'	2020.02.24	COMMENT	DTN



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PROJECT No.: DRAWN BY: **CHECKED BY:** 02/14/202 CAD I.D.: P-LGTE-LGH

PROJECT:

LIGHTING PLAN

UNITED **MANAGEMENT**

> **PROPOSED** DEVELOPMENT

501 LAKE AVE CITY OF LAKE WORTH BEACH LAKE WORTH BEACH, FL



1900 NW CORPORATE BOULEVARD SUITE 101E **BOCA RATON, FLORIDA 33431**

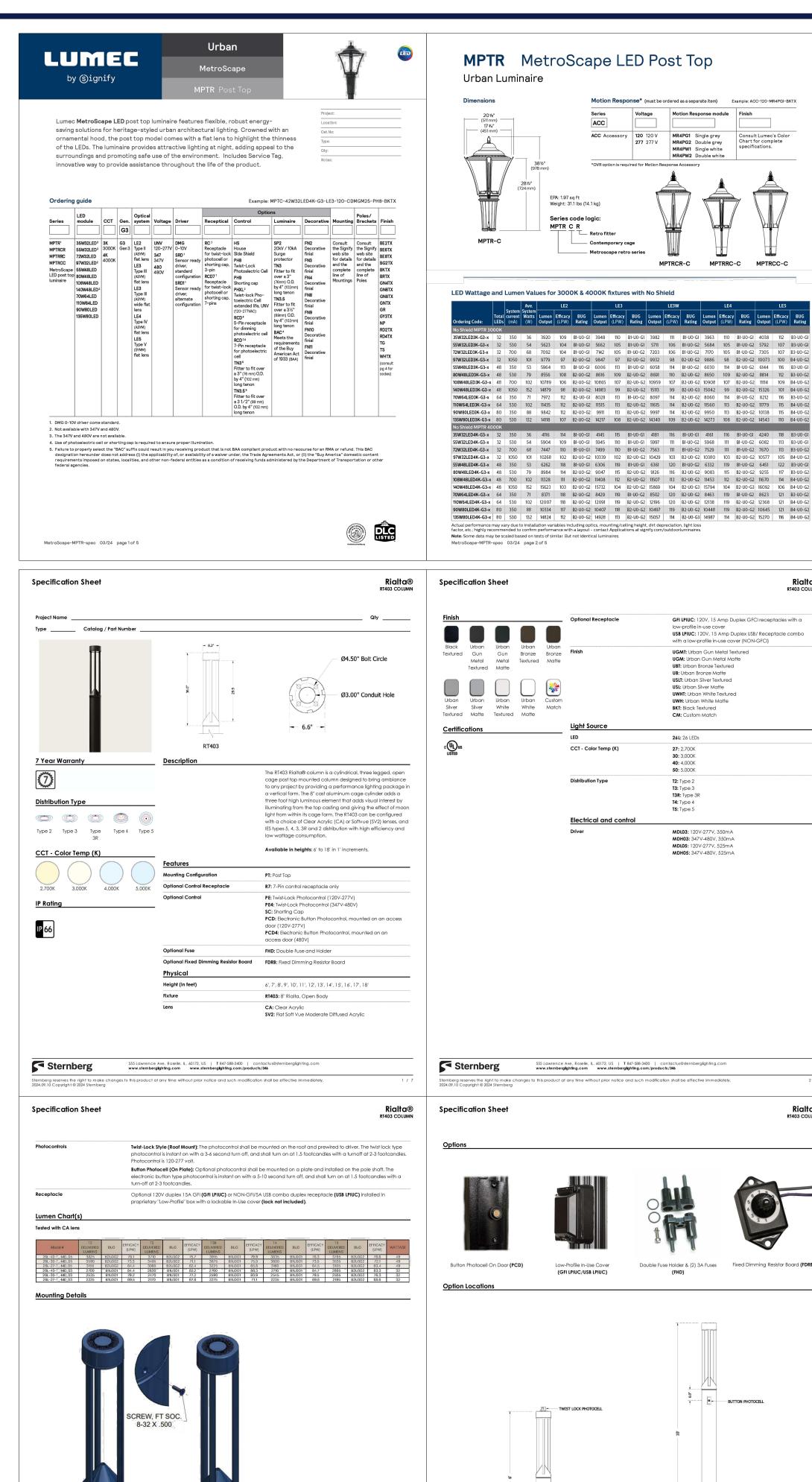
Phone: (561) 571-0280 Fax: (561) 571-0281 FLORIDA BUSINESS CERT. OF AUTH. No. 30780

GADO, PE, ON THE DATE ADJACENT TO THE SEAL. PRINTE

THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES SHEET TITLE:

LIGHTING

PLAN

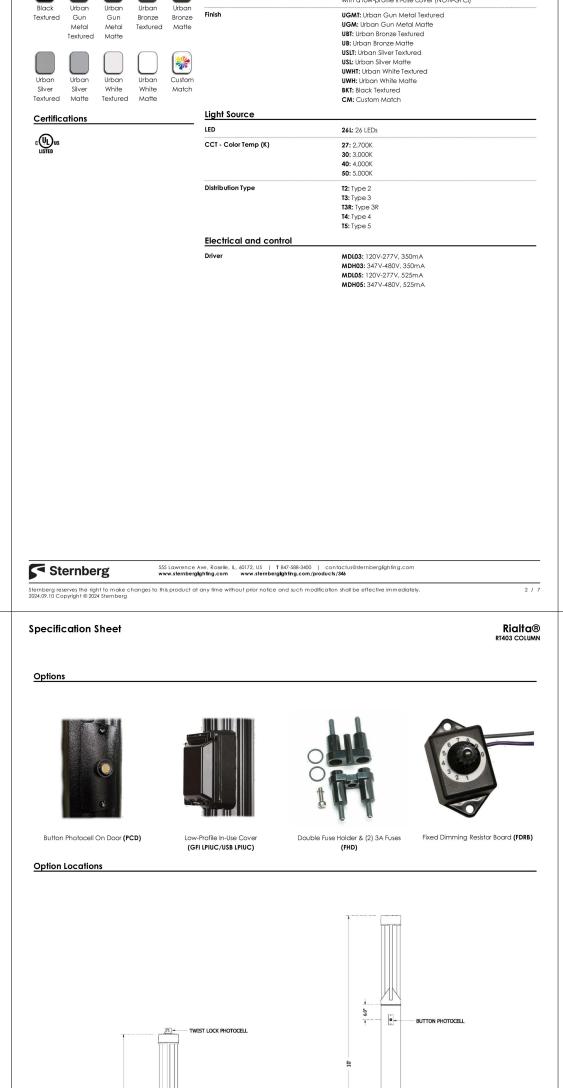


TWIST LOCK

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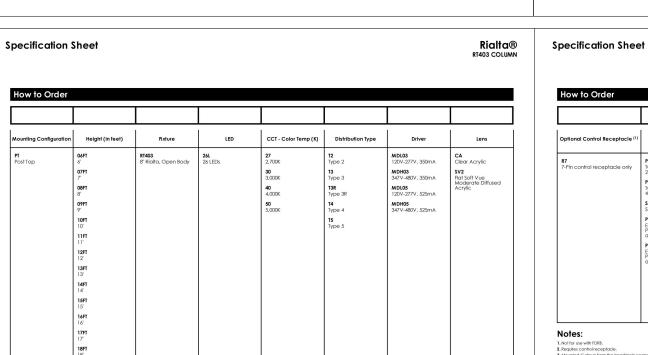
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MPTR MetroScape LED Post Top

Heat Sink

cooling device).

Made of die cast A360.1 Aluminum alloy 0.100
(2.5mm) minimum thickness, the fitter is complete with a water tipht access door giving access to the driver rated IP66, and a terminal block that accepts (#2 max.) wires from the primary circuit. Comes with an easy self adjusting system with two (2) set screws 3/8 16 UNC for ease of maintenance and installation.

Made of die cast A360.1 Aluminum alloy 0.1 (2.5mm) minimum thickness, mechanically assembled to the cast aluminum heat sink.

Access-Mechanism

A die cast A360.1 Aluminum alloy 0.1 (2.5mm) minimum thickness technical ring with latch and hinge.

Light Engine

LEDjine is composed of 4 main components:

LED lamp / Optical System / Heat Sink / Driver Electrical components are RoHS compliant.

Surge Protector

Surge protector tested in accordance with MSNI/IEEE C62.45 per ANSI/IEEE C62.4.12.
Scenario I Category C High Exposure 10kV/10kA waveforms for Lie Dround, Lien Neutral and Neutral Ground, and in accordance with U.S.
DOE (Department of Energy) MSSLC (Municipal Solid State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA. Optional SP2 20kV / 10kA surge protection device that provides extra protection device that provides extra

Driver options

DMG: Dimmable driver 0-10V.

OTL: Pre-set driver to signal end of life of the

SRD: Sensor Ready Driver including SR

functionalities). 24V auxiliary supply and logical signal input (LSI) connected to the top NEMA twist lock receptacle.

SRDI: Sensor Ready Driver including SR

communication (used for dimming and other functionalities) but with 24V auxiliary supply

and a logical signal input (LSI) not connected to the top NEMA twist lock.

Made of cast aluminum optimizing the LED:

Luminaire options

FN2 Decorative finial

FN3 Decorative finial

FN4 Decorative finial

FN8 Decorative finial

FN9 Decorative finial FN10 Decorative finial

FN11 Decorative finial

PH8 (allows a 90° rotation)

PHXL (allows a 90° rotation)

dimming, can be used with a

cap or a photoelectric cell.

TN3
Fitter to fit over a
3" (76 mm) O.D.
4" (102 mm')

by 4" (102 mm) tenon.

Fitter to fit over a 3-1/2" (89 mm) O.D. by 4" (102 mm) tenon.

cell, twist-lock type complete
with receptacle and decorative

HS

House side shield reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical component.

and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Urban Luminaire

mechanical ring, this cage is a one piece die cast A360 Aluminum alloy 0.100 (2.5mm)

minimum thickness, mechanically assembled

Retro (R) style cages. See Series code logic.

UNC for ease of maintenance and installation. Fits on a 4" (102mm) outside diameter by 4"

(C) and Retro (R) style fitters. See Series

Decorative cast 356 aluminum,

Made of die cast A360.1 Aluminum alloy

Flat Lens: Made of soda lime clear tempered

Composed of high-performance white LEDs.

Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/-.275K or 3710K to 4260K) or Warm white,

3000 Kelvin nominal (3045K +/- 175K or 2870K

Composed of high performance optical polymer

refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM 63, LM 79 and TM 15 (IESNA)

side indicated. Dark Sky compliant with 0% uplight and UO per IESNA TM 15.

to 3220K), CRI 70 Min. 75 Typical.

Optical System

Sternberg

code logic.

Hood

LED Module

Motion Response* (must be ordered as a separate item) Example: ACC-120-MR4PGI-BKTX

ACC Accessory 120 120 V MR4PG1 Single grey

MPTRCR-C

ACC

Retro fitter

Contemporary cage

Metroscape retro series

Motion Response module Finish

MR4PG1 Single grey
MR4PG2 Double grey
MR4PW1 Single white
MR4PW2 Double white

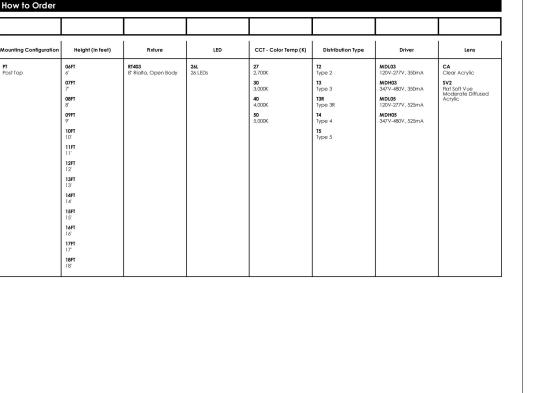
for Motion Research

MR4PW3 MA4PW3 MA4PW3

MPTRRC-C MPTRCC-C

GFI LPIUC: 120V, 15 Amp Duplex GFCI receptacles with a

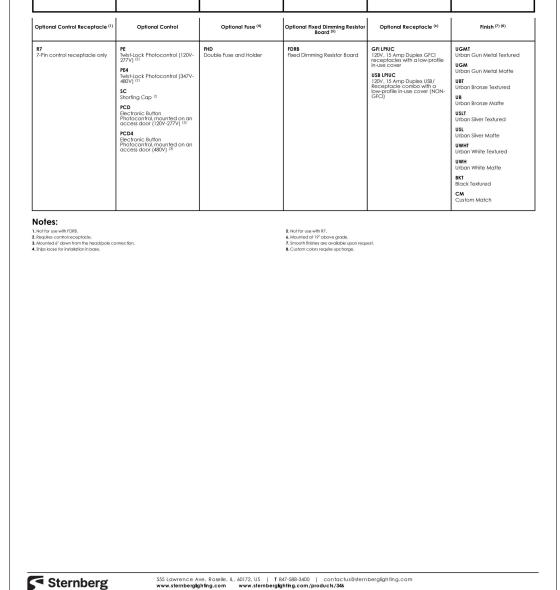
USB LPIUC: 120V, 15 Amp Duplex USB/ Receptacle combo



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			PCD Blectronic Button Photocontrol, mount access door (120V-2 PCD4 Electronic Button Photocontrol, mount access door (480V) 1
		Notes: 1. Not for use with FDRB. 2. Requires control receptacle. 3. Avointed 6" own from the head/pole co 4. Ships score for installation in base.	nnection.



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MPTR MetroScape LED Post Top

The Thermosetting powder coating provided meets the color requirements of the AAMA 2804 specification as measured per ASTM D2244. The emitting diodes (LEDs) are assembled in

Thermosetting product is applied at a dry film compliance with IEC61340 5 1 and ANSI/ of 2.5 to 4.0 mils (64-102 microns) on textured ESD S20.20 standards so as to eliminate ESD

BESTX: Ocean Blue NP: Natural Alum.
BESTX: Royal Blue TG: Hammer-tone

NF: Natural Alum.

NF: Natural Alum.

Neets the ANSI C136.31-2018, American National Standard for Roadway Luminaire

Silver

finishes, resulting in a durable long lasting finish.

Textured Finishes:

BEZTX: Midnight Blue

NP: Natural Alum

NP: Natural Alum

NP: Natural Alum

LED manufacturing standard

cycles by independent lab)

Manufactured to ISO 9001 2015 and

Quality Control

 MPTR-135W80LED4K
 25°C
 530 mA
 >100,000
 >60,000
 94,01%

 MPTR-140W48LED4K
 25°C
 1050 mA
 >100,000
 >60,000
 96,78%

Vibration Resistance

cycles by an independent lab).

Service Tag

Meets the ANSI C136.31, American Nationa

applications. (Tested for 3G over 100 000

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed inside the luminaire, you gain instant access to the luminaire configuration, making installation and maintenance operations.

installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away.

For more details visit: signify.com/servicetag

Certifications and Compliance

cULus Listed for Canada and USA.

MetroScape is on the DesignLights.

Urban Luminaire

Specifications (continued)

BRTX: Bronze

GNTX: Green

RD2TX: Burgundy

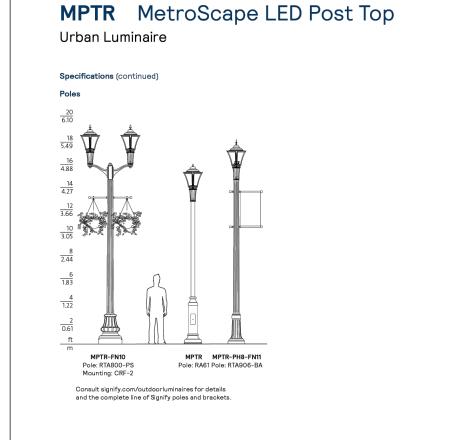
LED Performance

MetroScape-MPTR-spec 03/24 page 4 of 5

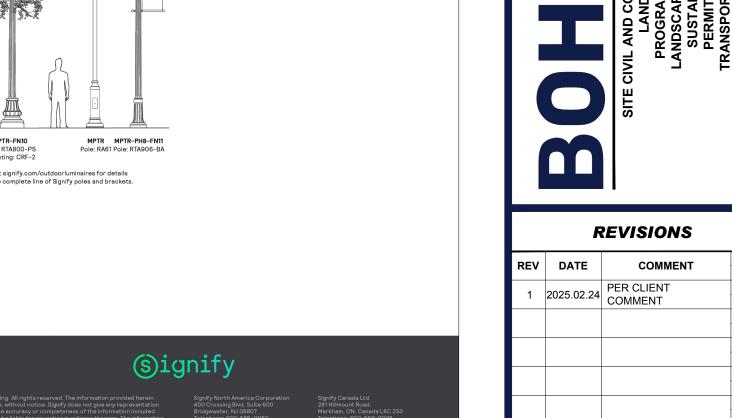
RD4TX: Scarlet

WHTX: White

GN6TX: Forest Green



Specification Sheet



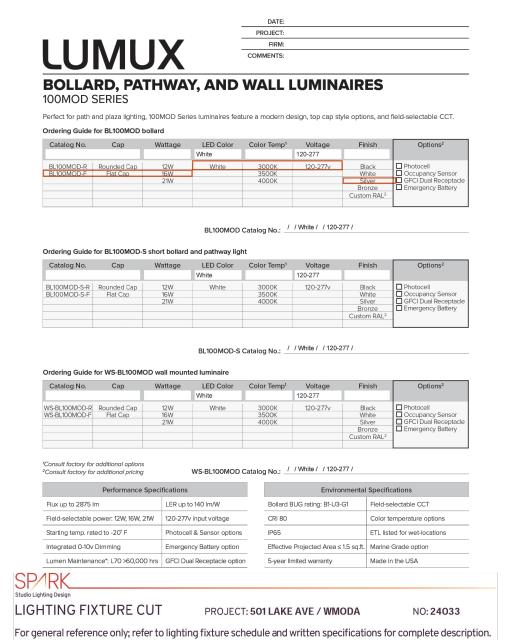
RT403 COLUMN



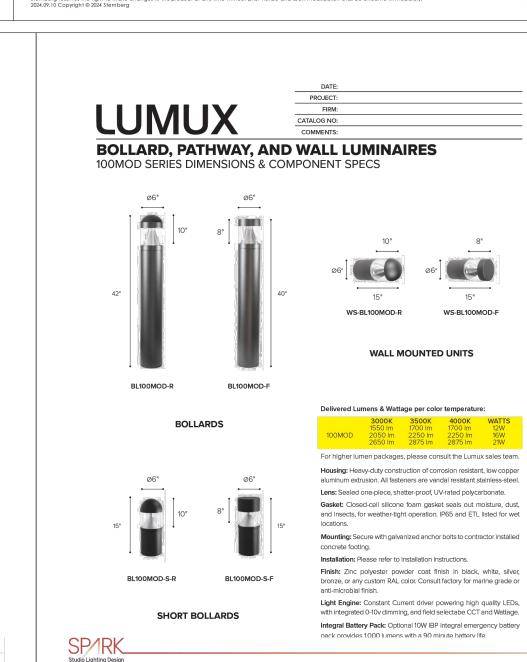




TYPE: **FE9**



TYPE: **FE9**

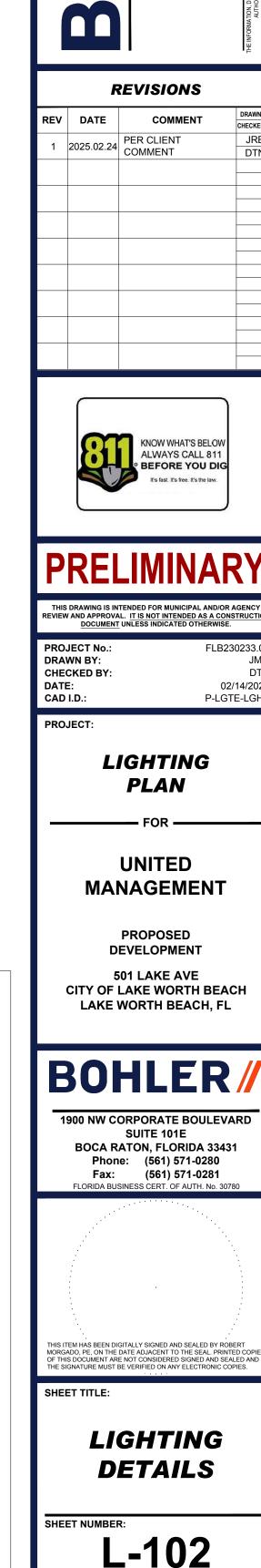


PROJECT: 501 LAKE AVE / WMODA

For general reference only; refer to lighting fixture schedule and written specifications for complete description.

TYPE: **FE9**

LIGHTING FIXTURE CUT



FLB230233.0

02/14/2025

P-LGTE-LGHT

REVISION 1 - 02/24/2025