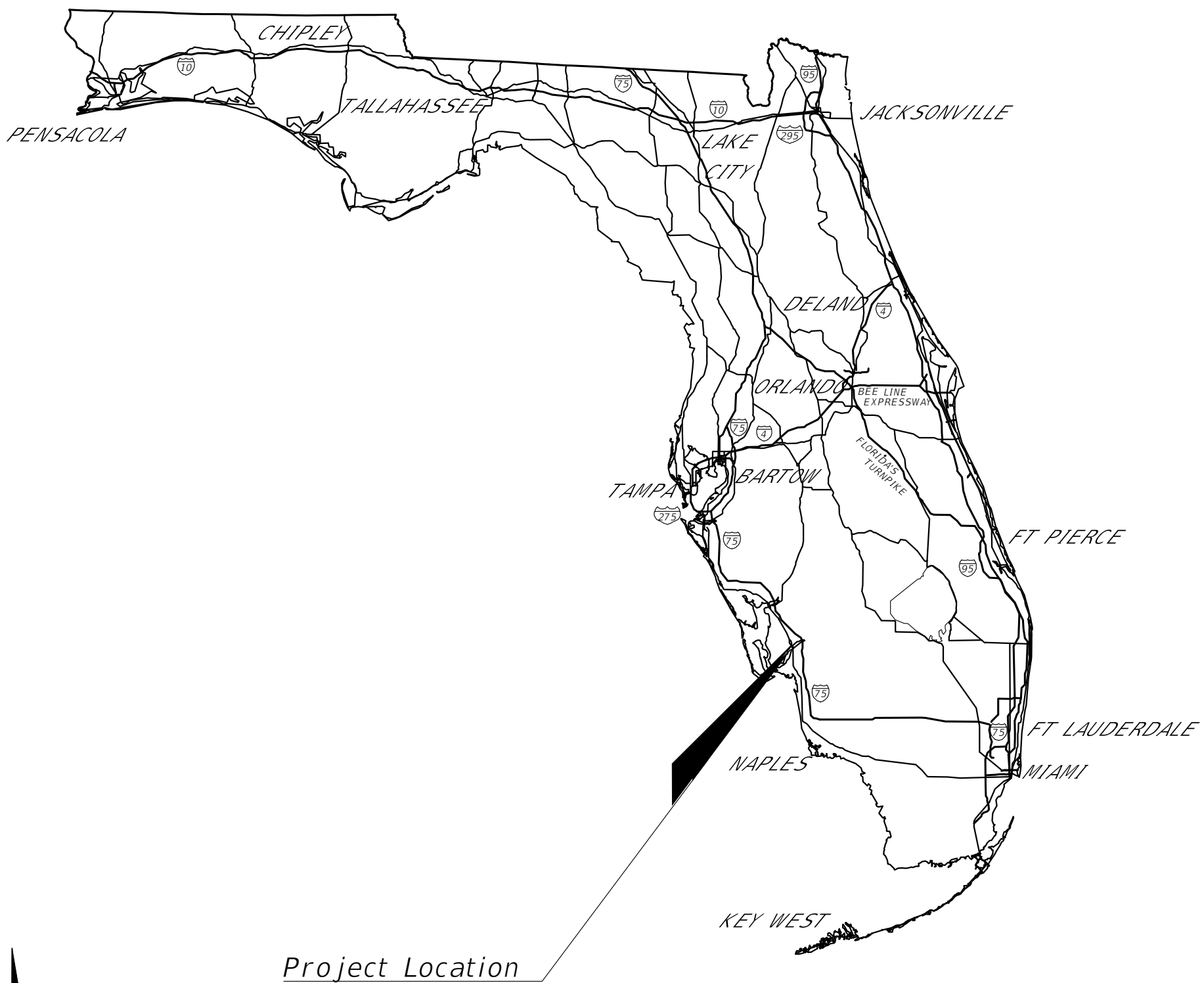
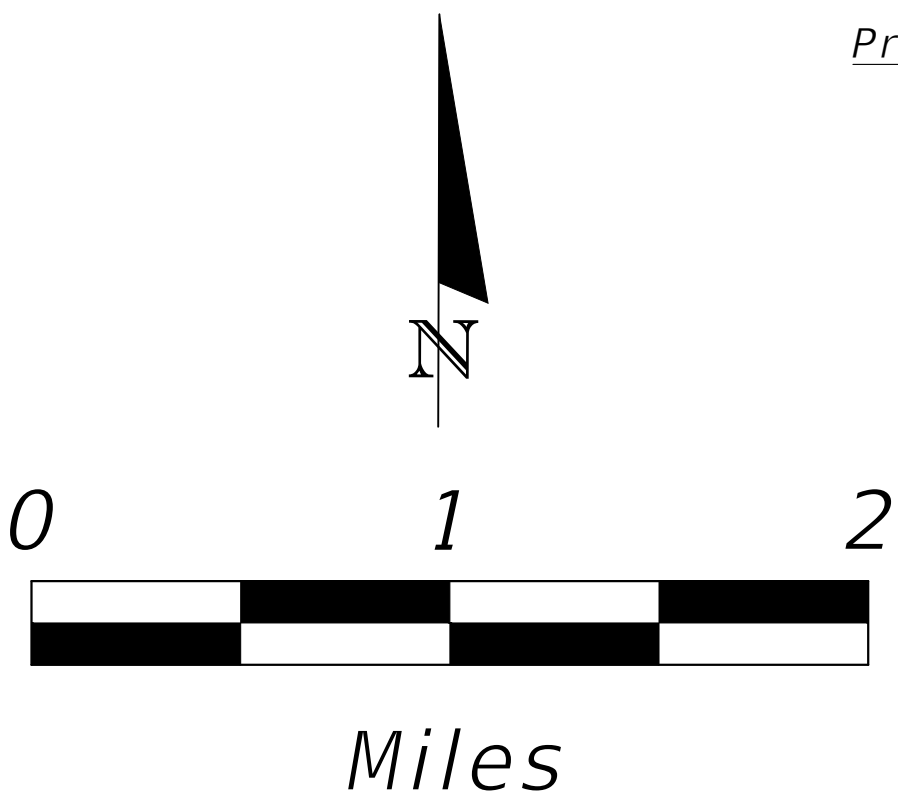


IBIS LANDING
PHASE 2 SITE LIGHTING PLANS

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	FIXTURE SCHEDULE AND NOTES
3	KEY MAP
4 - 7	PLAN SHEET

LEE COUNTY, FL



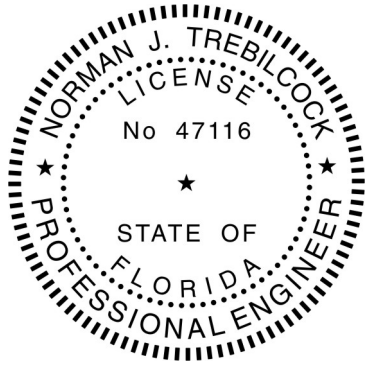
SHOP DRAWINGS SUBMITTED TO:
PLANS PREPARED BY:



TREBILCOCK CONSULTING SOLUTIONS, PA
2800 DAVIS BLVD SUITE 200 NAPLES FL 34104
CERTIFICATE OF AUTHORIZATION No.27796
PHONE: 239 566 9551
FAX: 239 566 9553

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

ISSUE FOR PERMIT DATE: 10-02-2023



LIGHTING PLANS
ENGINEER OF RECORD: NORMAN TREBILCOCK, AICP, PTOE, PE

P.E. NO. 47116

PLANS PREPARED FOR:

SOUTHWEST FLORIDA DIVISION
LENNAR HOMES, LLC
10481 SIX MILE CYPRESS PKWY
FORT MYERS, FL 33966

“GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2023-24 STANDARD
PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE
INTERIM REVISIONS (IRS).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRS ARE
AVAILABLE AT THE FOLLOWING WEBSITE:
[HTTPS://WWW.FDOT.GOV/DESIGN/STANDARDPLANS](https://www.fdot.gov/design/standardplans)

STANDARD PLANS FOR BRIDGE CONSTRUCTION ARE INCLUDED IN THE
STRUCTURES PLANS COMPONENT.

GOVERNING STANDARD SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, 2023-2024 STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE
FOLLOWING WEBSITE:
[HTTPS://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECSBOOKS](https://www.fdot.gov/programmanagement/implemented/specsbooks)”

KEY SHEET REVISIONS	
DATE	DESCRIPTION

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

FISCAL YEAR	SHEET NO.
----------------	--------------

23 1

LIGHTING FIXTURE SCHEDULE									
○	MANUFACTURER	QTY	LAMP	LUMINAIRE CATALOG NUMBER	ORDER INFORMATION			REMARKS	
					VOLTAGE	MOUNTING			
A	KING LUMINAIRE	50	LED	K601D-P4AR-III-75(SSL)-7030	MVOLT	POLE		LCEC (LED) KING LUMINAIRE POST TOP ON A 13' MH' DIRECT BURIED DECORATIVE CONCRETE POLE. CONFIRM POLE STYLE WITH OWNER.	

PHOTOMETRICS BASED ON NO LIGHT LOSS. LIGHT LOSS FACTOR IS SET TO 1.0

SITE PHOTOMETRIC SUMMARY STATISTICS						
Description	Symbol	Avg	Min	Max/Min	Avg/Min	Max
EAST PROPERTY LINE	+	0.0 fc	0.0 fc	N/A	N/A	0.0 fc
WEST PROPERTY LINE	+	0.0 fc	0.0 fc	N/A	N/A	0.0 fc
SOUTH PROPERTY LINE	+	0.0 fc	0.0 fc	N/A	N/A	0.0 fc
NORTH PROPERTY LINE	+	0.0 fc	0.0 fc	N/A	N/A	0.0 fc

LIGHT LOSS FACTOR SET TO 1.0 FOR ALL FIXTURES-NO LIGHT LOSS FACTOR USED

GENERAL ELECTRICAL NOTES:

- ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL CODES AND ORDINANCES GOVERNING ELECTRICAL SYSTEMS, AS APPLICABLE.
- LCEC WILL BE INSTALLING THE LIGHTING SYSTEM



K601D COACH LANTERN - LED

The K601D is a cost effective coach lantern with a historical appearance that offers high performance Advanced LED Technology with our signature P4 optical system. It has excellent spacing and low glare providing a perfect solution for city streets, parks, schools and commercial areas.



King Luminaire

PRODUCT SPECIFICATIONS

LED ENGINE

Light engine shall include an array of 30, 60 or 84 solid state Cree X-Series high power LEDs (light emitting diodes). The emitters shall be mounted to a metal core circuit board using SMT technology. The LEDs and circuit boards shall then be mounted to a high performance heat sink.

OPTICS

External light control shall consist of high precision refractive lenses mounted above the LED emitter arrays in such a way to achieve optimum uplight control. The lenses shall also control horizontal light distribution so that Type II, III, IV or V IESNA distribution patterns are achieved.

LENS

The K601D Coach Lantern is available with or without a lens. The lens panels can be made of clear polycarbonate or clear acrylic.

LUMINAIRE CONSTRUCTION

All cast components shall consist of an aluminum alloy. The main body acts as an enclosure for the LED array and is of adequate thickness to give sufficient structural rigidity.

With the Post Top, the capital shall have an opening at the base tenon body to allow the luminaire to be mounted to a tenon of 3-1/2" maximum diameter. The luminaire shall be locked in place by means of heavy duty, stainless steel set-screws.

The K601D Coach Lantern is also available as a pendant with multiple mounting options, including the KPL10, KPL11, KPL20, KPL21, KPL30, KPL31 and KPL40. The K601D Coach Lantern can also be mounted with a Side Mounted scroll arm. Please contact King Luminaire for more details and specifications.

DRIVER

The LED universal dimmable driver will be class 2 and capable of 120 - 277V or 347 - 480V input voltage, greater than 0.9 power factor, less than 20% total harmonic distortion. The case tem-

perature of the driver can range from -40°C up to 70°C. Each LED system comes with a standard surge protection designed to withstand up to 20kV/10kA of transient line surge as per IEEE C62.41.2 C High. An in-line ferrite choke is utilized to provide protection against EFT's. Dimming capable using 1-10vdc (10% to 100%), 10v PWM, or resistance.

PHOTOMETRICS

Fixtures are tested to IESNA LM79 specifications. These reports are available upon request.

CHROMATICITY

High output LEDs come standard at 3000K & 4000K (+/- 300K) with a minimum nominal 70 CRI. Additional CCT emitters are available upon request.

LUMEN MAINTENANCE

Reported (TM21) and Calculated (L70) reports are available upon request with a minimum calculated value of 100,000 hrs.

WIRING

All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Lok connectors or to a terminal block. Mate-N-Lok shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated at 1000V and 150°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 150°C, 600V, and color coded for the required voltage.

THERMALS

Fixtures tested by a DOE sanctioned test facility to determine the maximum in-situ solder-point or junction-point temperatures of the LED emitters. This report is available upon request.

FINISH

Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal

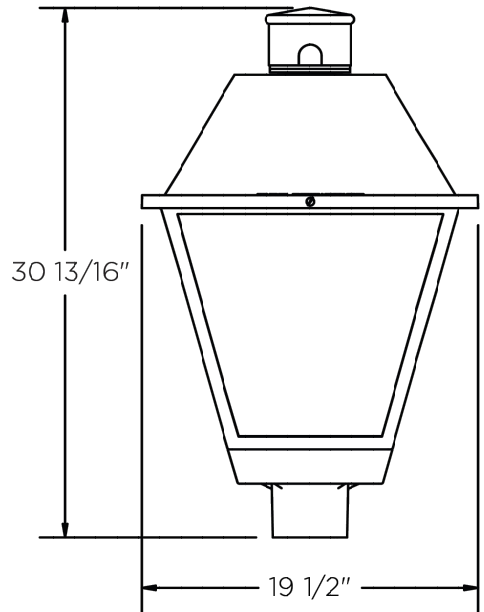
green and rain forest. Please see our website for a complete list of colors. RAL and custom color matches are available.

MISCELLANEOUS

All exterior hardware and fasteners, wholly or partly exposed, shall be stainless steel alloy. All internal fasteners are stainless steel or zinc coated steel. All remaining internal hardware is stainless steel, aluminum alloy, or zinc coated steel.

WARRANTY

The K601D Coach Lantern LED luminaire comes with a 7 year limited warranty.



CERTIFICATION:

CSA US Listed
Suitable for wet locations
ISO 9001
IP66
ARRA Compliant
LM79 / LM80 Compliant

DRIVER INFO:

>0.9 Power Factor
<20% Total Harmonic Distortion
120 - 277V & 347 - 480V
-40°C Min. Case Temperature
70°C Max. Case Temperature
Surge Protection: ANSI C136.2
extreme level 20kV/10kA
Dimming Capable: 1-10vdc

EPA (with Lens):

Post Top: 2.7 sq. ft.
Side Mount: 2.45 sq. ft.
Pendant: 2.45 sq. ft.

FIXTURE WEIGHT (with Lens):

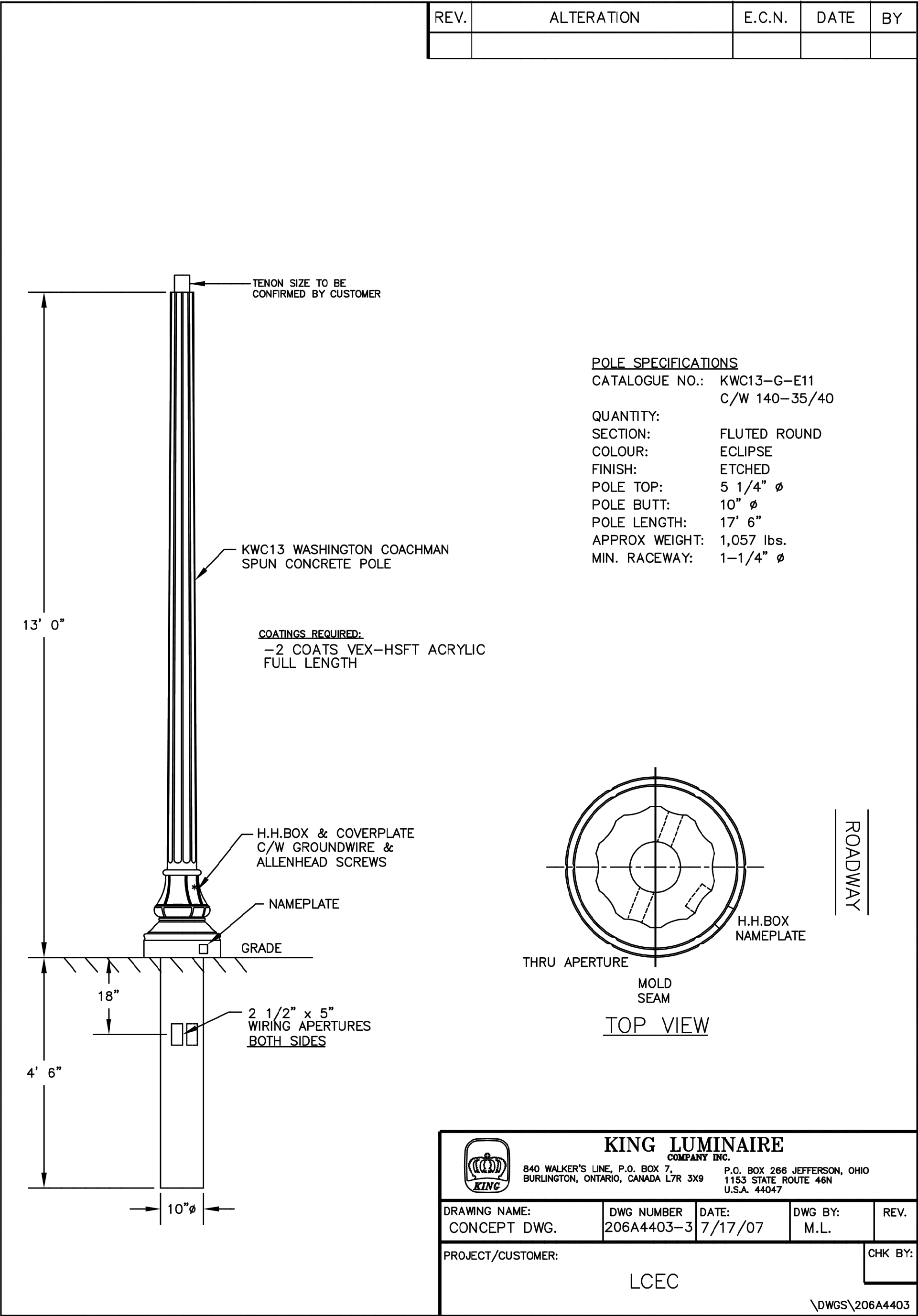
Post Top: 34 lbs
Side Mount: 25 lbs
Pendant: 25 lbs



IDA certification applicable for maximum 3000K CCT. Glass Lenses do not apply.

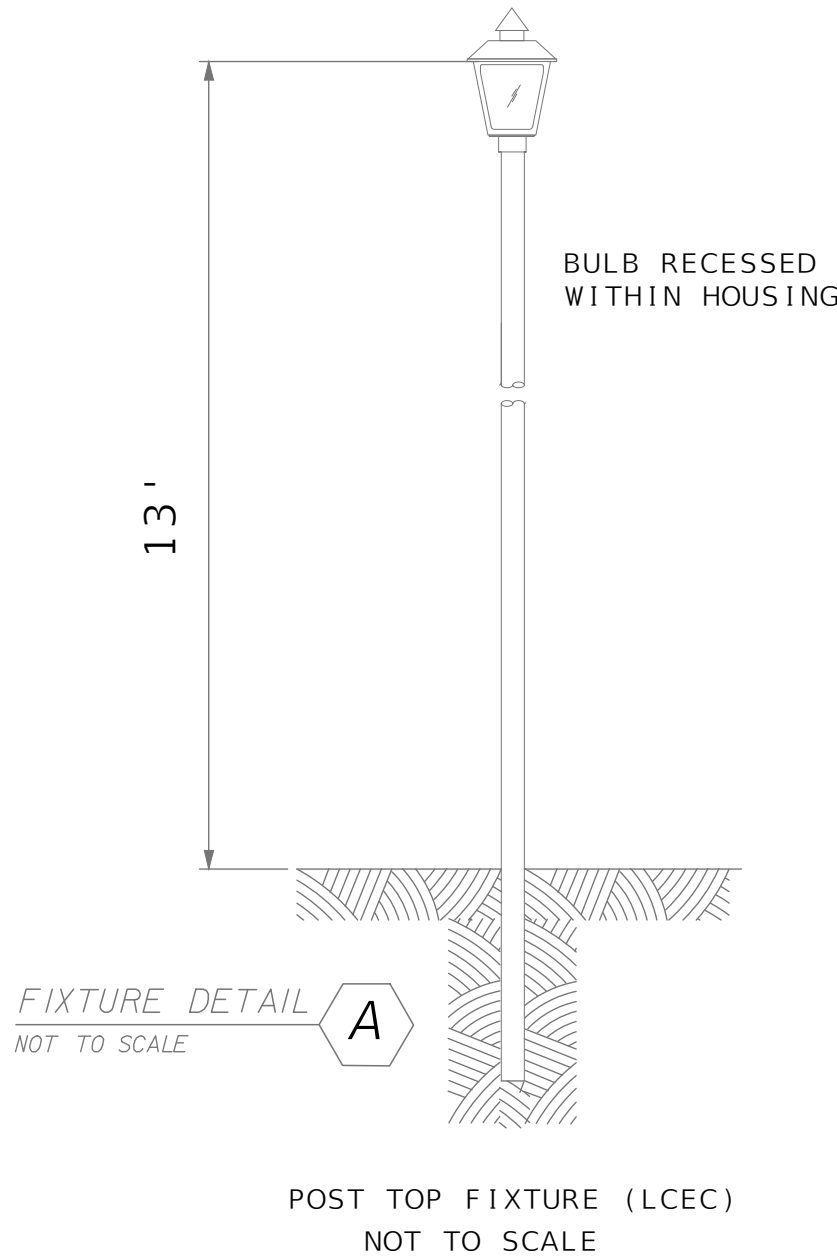


Not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualification. 01-06-2023



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking area #1	+	2.6 fc	4.4 fc	1.3 fc	3.4:1	2.0:1
Parking area #2	+	1.9 fc	4.1 fc	0.5 fc	8.2:1	3.8:1
Parking area #3	+	2.0 fc	3.7 fc	0.9 fc	4.1:1	2.2:1
Parking area #4	+	1.9 fc	3.6 fc	0.4 fc	9.0:1	4.8:1
Parking area #5	+	2.0 fc	3.8 fc	1.0 fc	3.8:1	2.0:1
Parking area #6	+	2.2 fc	2.9 fc	1.2 fc	2.4:1	1.8:1
Parking area #7	+	1.5 fc	3.7 fc	0.5 fc	7.4:1	3.0:1
Parking area #8	+	2.1 fc	3.8 fc	1.0 fc	3.8:1	2.1:1

LIGHT LOSS FACTOR SET TO 1.0 FOR ALL FIXTURES-NO LIGHT LOSS FACTOR USED COVERED PARKING BY OTHERS.



REVISIONS				 TREBILCOCK CONSULTING SOLUTIONS 2800 DAVIS BLVD SUITE 200 NAPLES FL 34104	IBIS LANDING PHASE 2 SITE LIGHTING PLANS			FIXTURE SCHEDULE AND NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		2
					NA	LEE	NA		

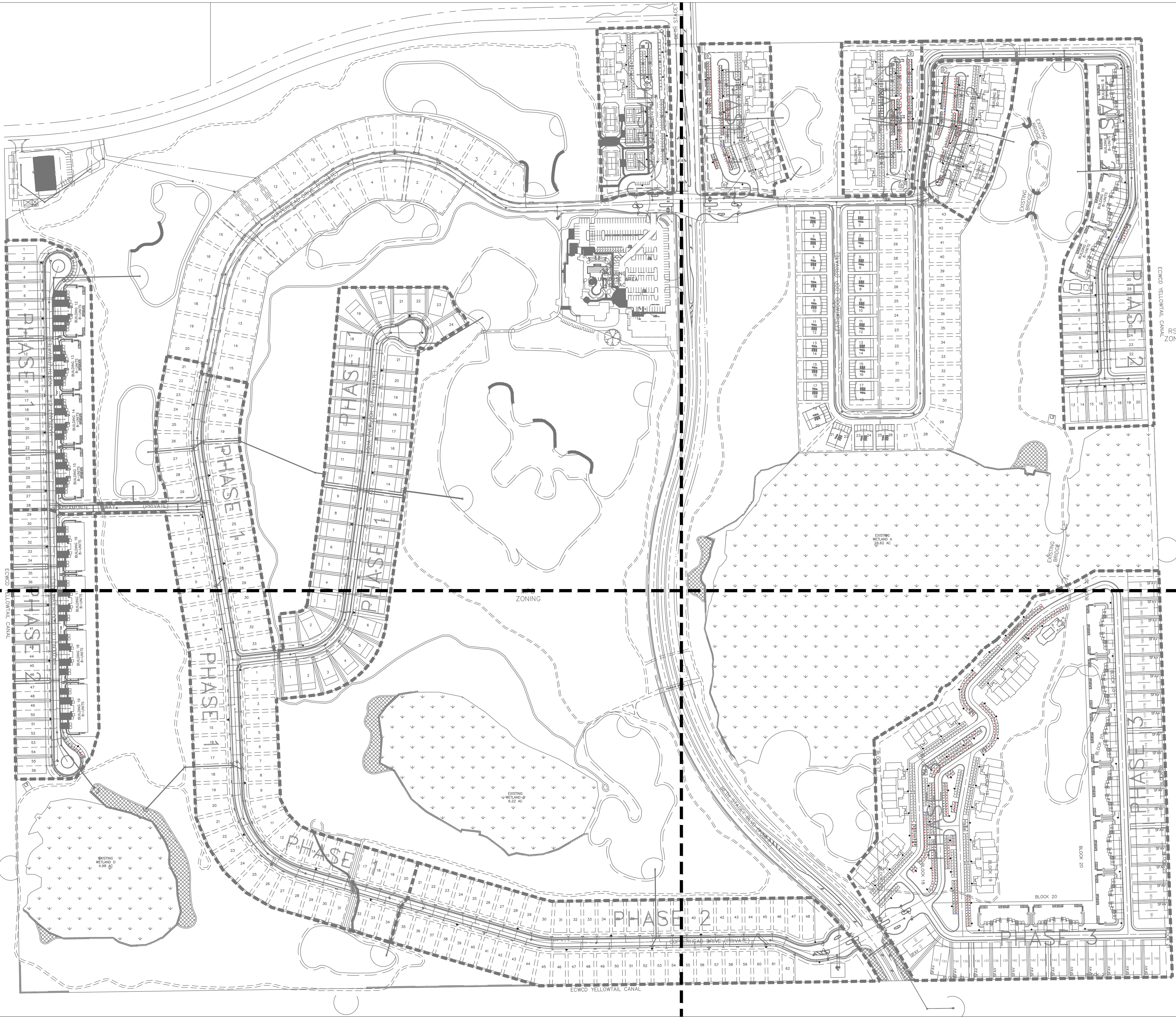


SHEET L-4

SHEET L-5

SHEET L-6

SHEET L-7



MATCH LINE A-A

NORMAN TREBILCOCK, AICP, PTOE, PE #47116
TCS CERTIFICATE OF AUTHORIZATION No. 27796
ISSUED FOR PERMIT DATE: 10/02/23

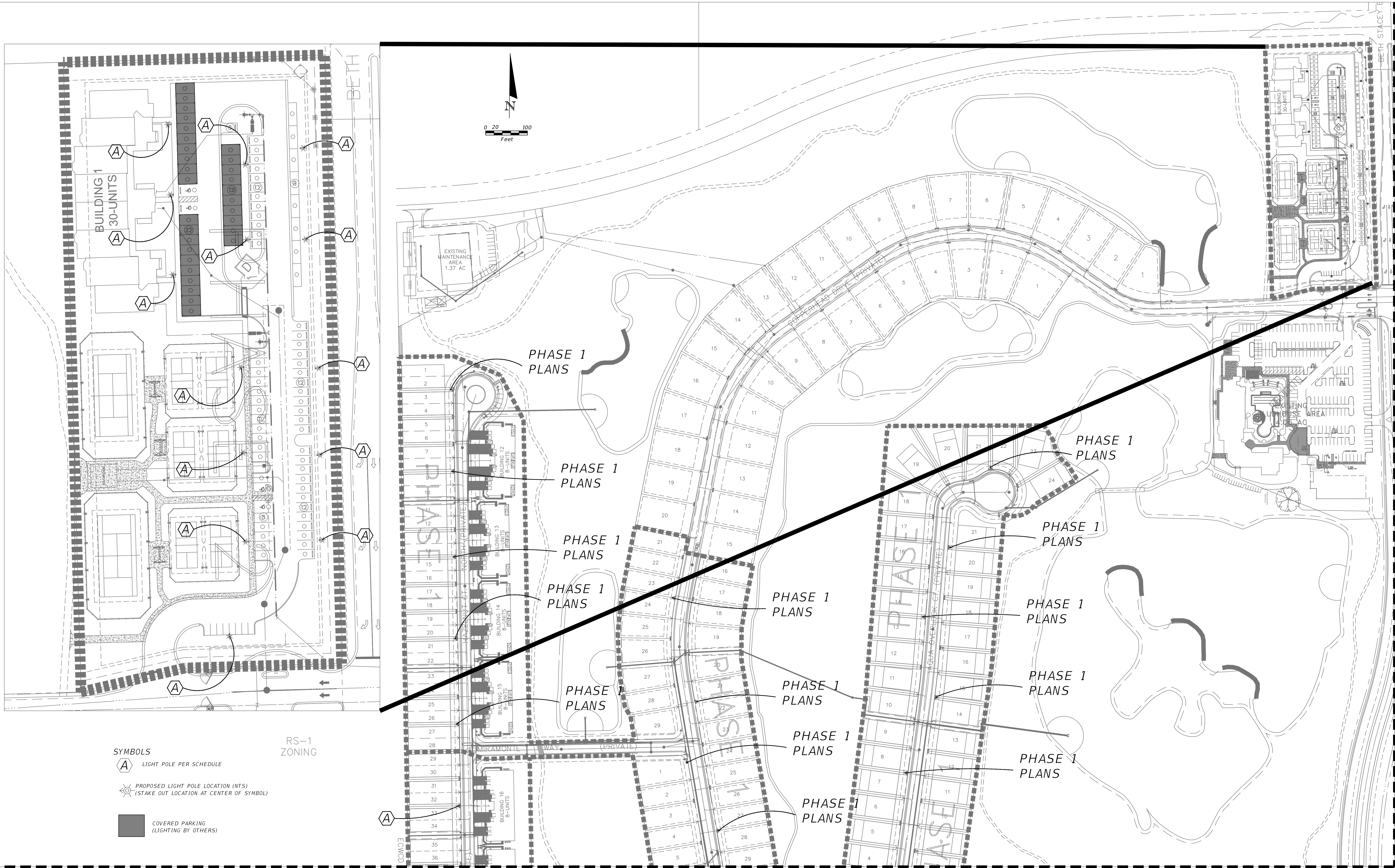
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



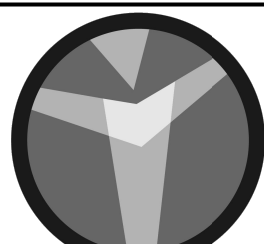
TREBILCOCK
CONSULTING SOLUTIONS
2800 DAVIS BLVD SUITE 200 NAPLES FL 34104

IBIS LANDING PHASE 2 SITE LIGHTING PLANS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	LEE	NA

KEY MAP		SHEET NO.
		3



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



TREBILCOCK
CONSULTING SOLUTIONS

2800 DAVIS BLVD SUITE 200 NAPLES FL 34104

IBIS LANDING PHASE 2 SITE LIGHTING PLANS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	LEE	NA

PLAN

SHEET NO.

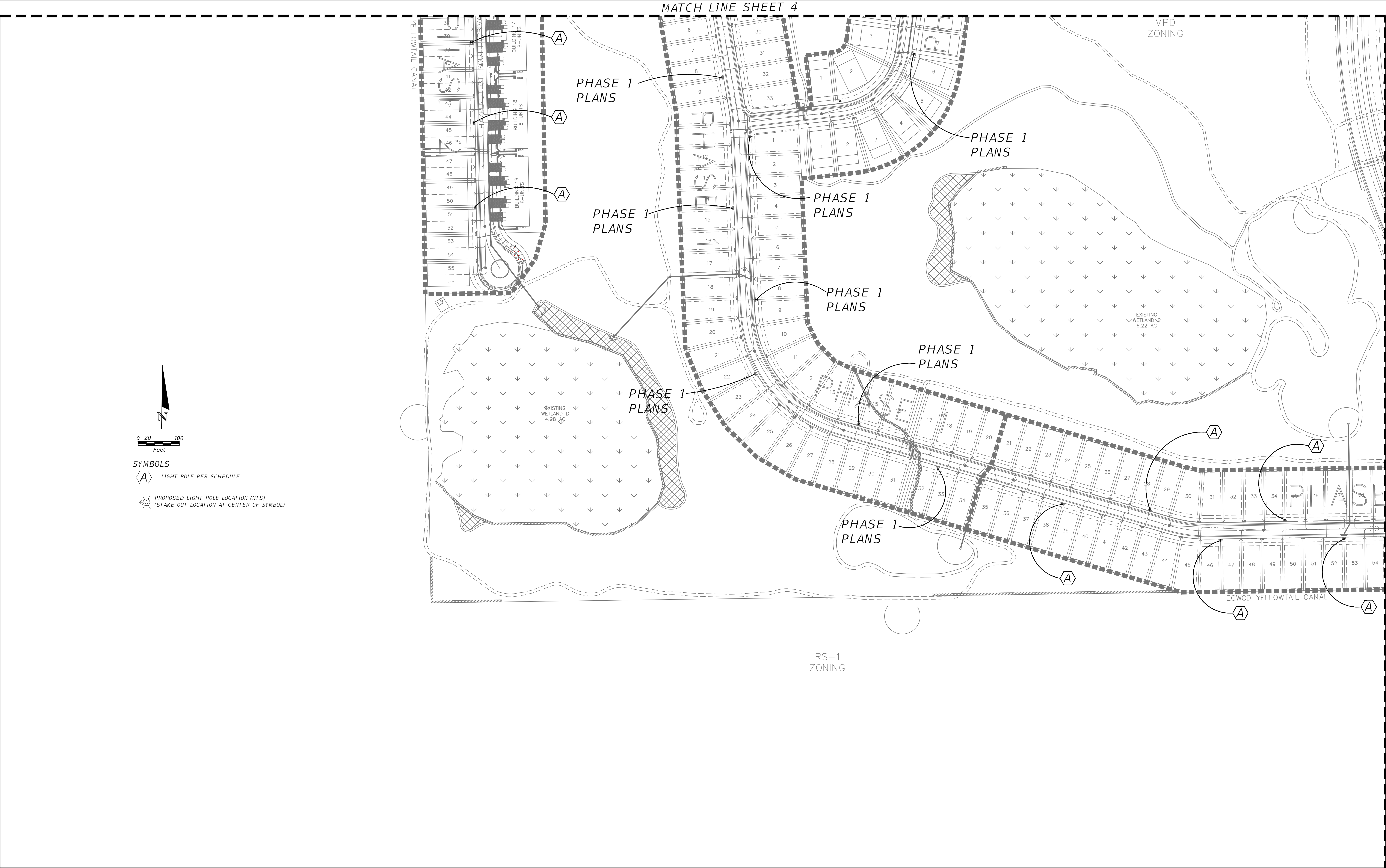
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NORMAN TREBILCOCK, AICP, PTOE, PE #47116

TCS CERTIFICATE OF AUTHORIZATION No. 27796

ISSUED FOR PERMIT DATE: 10/02/23

10/10/2023 10:44:11 AM Project: Ibis Landing Phase 2 Street Lighting Plans 10/10/2023 10:44:11 AM Project: Ibis Landing Phase 2 Street Lighting Plans 10/10/2023 10:44:11 AM Project: Ibis Landing Phase 2 Street Lighting Plans 10/10/2023 10:44:11 AM Project: Ibis Landing Phase 2 Street Lighting Plans



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



TREBILCOCK

CONSULTING SOLUTIONS

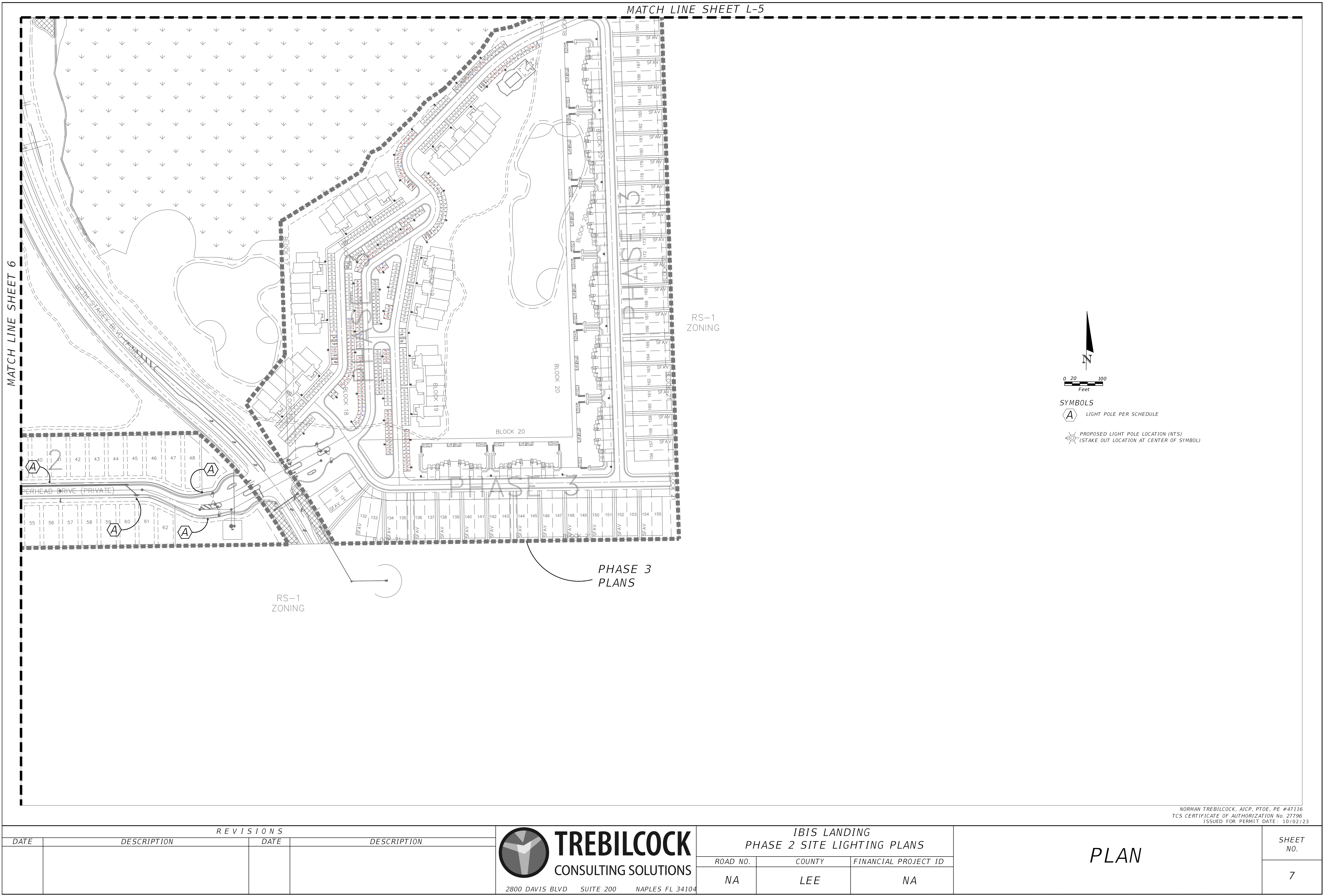
2800 DAVIS BLVD SUITE 200
NAPLES FL 34104

IBIS LANDING PHASE 2 SITE LIGHTING PLANS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	LEE	NA

PLAN

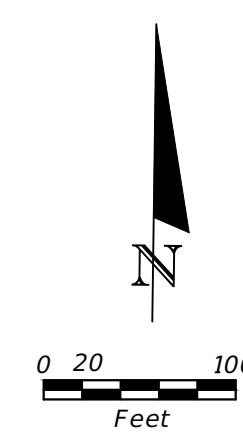
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NORMAN TREBILCOCK, AICP, PTOE, PE #47116
 TCS CERTIFICATE OF AUTHORIZATION No. 27796
 ISSUED FOR PERMIT DATE: 10/02/23



MATCH LINE SHEET 6

MATCH LINE SHEET L-5

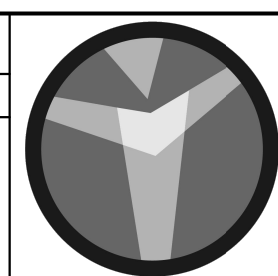


- SYMBOLS
- LIGHT POLE PER SCHEDULE
 - PROPOSED LIGHT POLE LOCATION (NTS)
(STAKE OUT LOCATION AT CENTER OF SYMBOL)

RS-1
ZONING

PHASE 3
PLANS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



TREBILCOCK
CONSULTING SOLUTIONS
2800 DAVIS BLVD SUITE 200 NAPLES FL 34104

IBIS LANDING PHASE 2 SITE LIGHTING PLANS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NA	LEE	NA

PLAN

SHEET NO.
7

NORMAN TREBILCOCK, AICP, PTOE, PE #47116
TCS CERTIFICATE OF AUTHORIZATION No. 27796
ISSUED FOR PERMIT DATE: 10/02/23