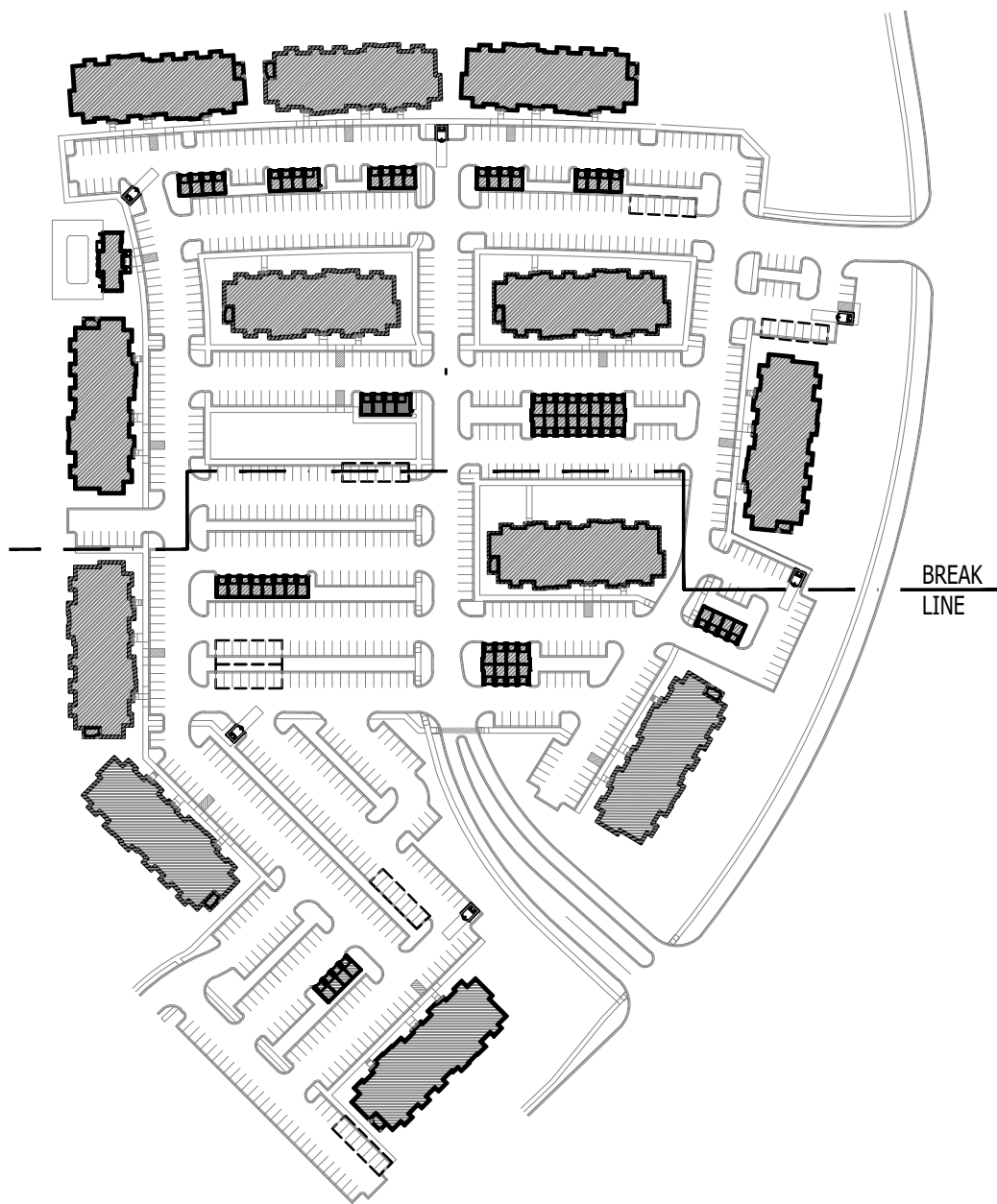




SITE KEY PLAN

SCALE: 1" = 200 ft

POLE HEIGHT	"X" DEPTH
10ft - 14ft	4'-6"
15ft - 20ft	6'-0"
21ft - 25ft	7'-0"
26ft - 30ft	8'-0"

POLE MUST MEET EPA RATING FOR 80MPH WIND (ASCE 7-93) WITH SPECIFIED HEAD CONFIGURATION

PVC CONDUIT STUBBED UP ADJACENT TO HANDHOLE (NUMBER & SIZE REQUIRED)

HANDHOLE @ COVER PLATE

POLE ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS

1/2" CHAMFER ALL EDGES

24" MIN. TO CURB / PAVING

FINISH GRADE

CIRCUIT CONDUIT & CONDUCTORS TO POWER SOURCE / NEXT POLE

ATTACH COPPER EQUIPMENT GROUND CONDUCTOR TO INTERNAL LUG WELDED TO INTERIOR OF POLE

TYP. POLE BASE REINFORCING:
#3 HORIZONTAL TIES (20") AT 12" O.C.
w/ #4 VERTICAL BARS AT PERIMETER AT 6" O.C.

CONCRETE TO BE MIN. 3000psi

TYPICAL LIGHT POLE DETAIL

SITE LIGHTING CALCULATION SUMMARY

AREA / LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
SITE	ILLUMINANCE	FC	2.53	7.4	0.4	6.3	18.5

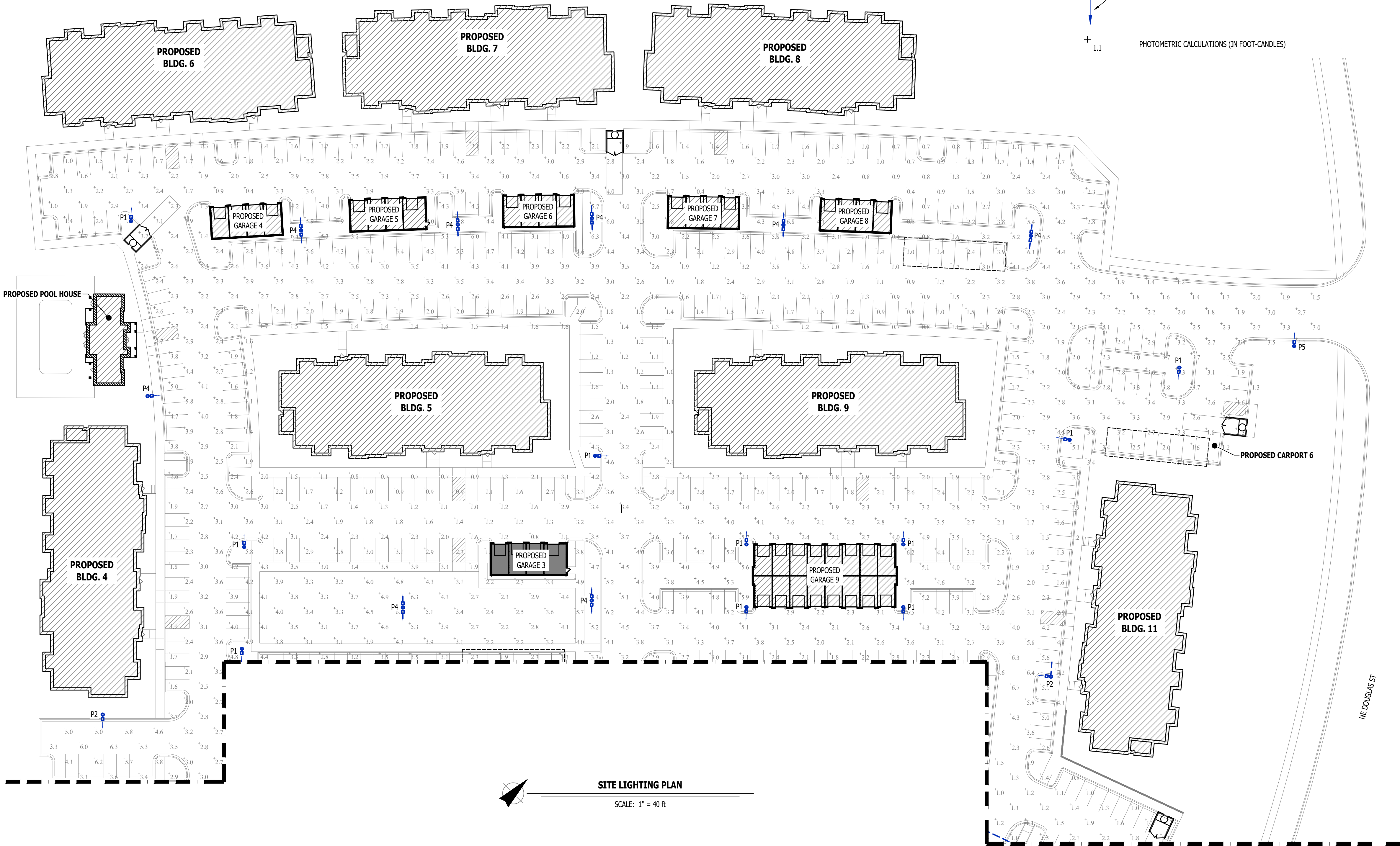
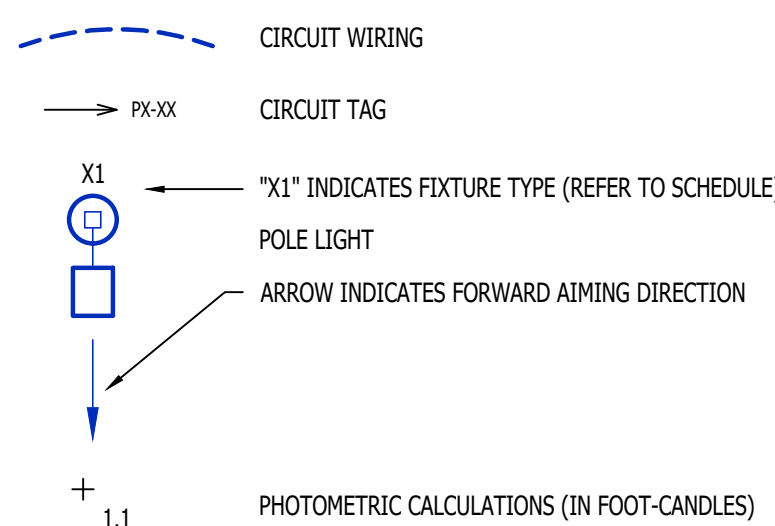
NOTES:

1. PHOTOMETRIC CALCULATIONS DO NOT INCLUDE EXISTING LIGHTING

SITE LIGHTING PLAN GENERAL NOTES:

- SITE PHOTOMETRIC VALUES SHOWN HAVE BEEN CALCULATED PER SPECIFIED LIGHT FIXTURES AT INDICATED MOUNTING HEIGHTS. ANY CHANGES OR ALTERATIONS TO LIGHTING LAYOUT SHOWN WILL REQUIRE RECALCULATING SITE PHOTOMETRICS AND WILL THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR / EQUIPMENT SUPPLIER.
- PHOTOMETRIC CALCULATIONS SHOWN DO NOT INCLUDE EXISTING LIGHT FIXTURE(S), ONLY NEW POLE LIGHT FIXTURE(S) SHOWN.
- ALL BUILDING-MOUNTED LIGHTING WILL BE INTENDED AS ACCENT LIGHTING AND NOT INTENDED TO PROVIDE GENERAL AREA LIGHTING. ALL BUILDING-MOUNTED LIGHTING SHALL COMPLY WITH CITY OF LEE'S SUMMIT UDO SECTIONS 8.220, 8.260, & 8.270.

SITE LIGHTING PLAN SYMBOL LEGEND



SITE LIGHTING PLAN

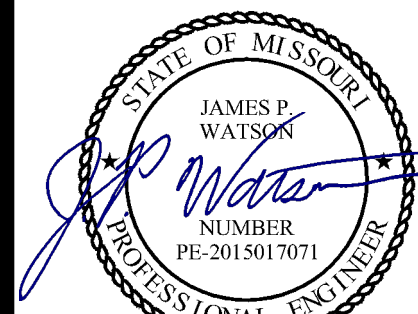
SCALE: 1" = 40 ft

SITE LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
P1	MCGRAW-EDISON	PRV-XL-PA4B-740-U-5WQ	LED SITE LUMINAIRE	20" POLE ON 30" BASE	40,868	4000	70	UNV	303	WITH #MS/DIM-L40 MOTION SENSING DIMMING
P2	MCGRAW-EDISON	PRV-XL-PA4B-740-U-T3	LED SITE LUMINAIRE	20" POLE ON 30" BASE	39,532	4000	70	UNV	303	WITH #MS/DIM-L40 MOTION SENSING DIMMING
P3	MCGRAW-EDISON	PRV-XL-PA4B-740-U-T4W	LED SITE LUMINAIRE	20" POLE ON 30" BASE	39,057	4000	70	UNV	303	WITH #MS/DIM-L40 MOTION SENSING DIMMING
P4	MCGRAW-EDISON	PRV-XL-PA3B-740-U-5WQ	LED SITE LUMINAIRE	20" POLE ON 30" BASE	63,118	4000	70	UNV	234	(2) FIXTURES POLE-MOUNTED BACK-TO-BACK; WITH #MS/DIM-L40 MOTION SENSING DIMMING
P5	SUN VALLEY	COL21-VLED-IV-80LED-525MA-40K	DECORATIVE POLE LUMINAIRE	15" POLE ON 36" BASE	16,996	4000	70	208	126	
P6	SUN VALLEY	COL21-VLED-VSQ-80LED-525MA-40K	DECORATIVE POLE LUMINAIRE	15" POLE ON 36" BASE	33,992	4000	70	208	252	(2) FIXTURES POLE-MOUNTED BACK-TO-BACK

NOTES:

- LIGHT FIXTURES PROVIDED BY OWNER THRU NATIONAL ACCOUNT AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL FIXTURE QUANTITIES TO BE VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- CONTACT JUSTIN HATFIELD (573) 289-0880 (JHATFIELD@LAWEB.NET) OR PAUL WARNER (314) 531-3500 (PWARNER@LAWEB.NET) AT LIGHTING ASSOCIATES FOR NATIONAL ACCOUNT DETAILS.
- CONTACT TRAVIS VOGT (417) 621-5210 (TVOGT@CED1135.COM) AT CED-PHILLIPS & COMPANY FOR NATIONAL ACCOUNT DETAILS.



James Watson, P.E. April 11, 2025
PE-2015017071
MO Certificate of Authority # 2018029680



J-SQUARED
ENGINEERING

2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

J2 PROJECT No: J21357

J2 DESIGN: ACW

ISSUE TITLE DATE

FDP SUBMITTAL 04 - 11 - 2025

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

The Village at Discovery Park Alura Apartments

Northeast Douglas Street
Lee's Summit, Jackson County, Missouri

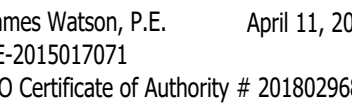
AHJ APPROVAL STAMP

SHEET NUMBER

MASTER
SITE LIGHTING
PLAN

SHEET NUMBER

SL1



10 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492
www.j-squaredeng.com

PROJECT No: J213

DESIGN: AC

SUE TITLE DA

P SUBMITTAL	04 - 11 - 20
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The Village at Discovery Park Alura Apartments

MECHANICAL - ELECTRICAL - PLUMBING DESIGN DRAWINGS FOR:

Lee's Summit, Jackson County, Missouri

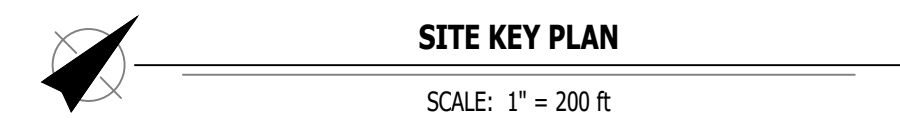
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HEET TITLE

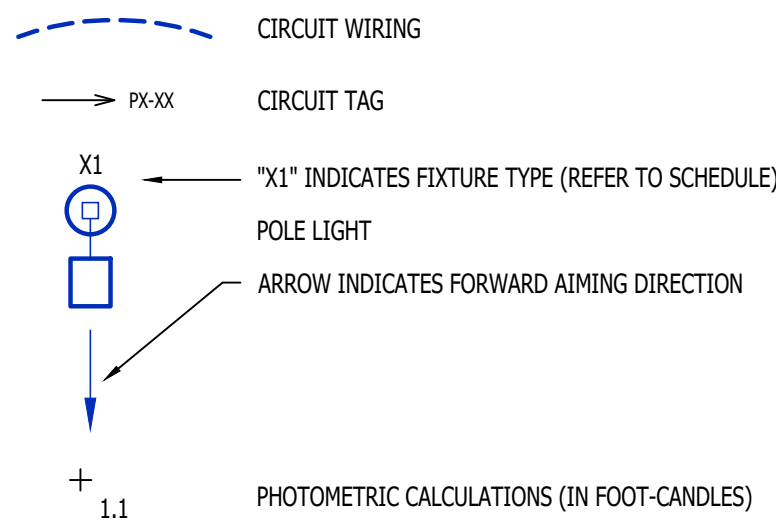
MASTER SITE LIGHTING PLAN

HEET NUMBER

SL2



SITE LIGHTING PLAN SYMBOL LEGEND



SITE LIGHTING PLAN GENERAL NOTES:

1. SITE PHOTOMETRIC VALUES SHOWN HAVE BEEN CALCULATED PER SPECIFIED LIGHT FIXTURES AT INDICATED MOUNTING HEIGHTS. ANY CHANGES OR ALTERATIONS TO LIGHTING LAYOUT SHOWN WILL REQUIRE RECALCULATING SITE PHOTOMETRICS AND WILL THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE SUPPLY.
2. PHOTOMETRIC CALCULATIONS SHOWN DO NOT INCLUDE EXISTING LIGHT FIXTURE(S), ONLY NEW POLE LIGHT FIXTURE(S) SHOWN.
3. ALL BUILDING-MOUNTED LIGHTING WILL BE PROVIDED AS ACCENT LIGHTINGS AND NOT INTENDED TO PROVIDE GENERAL AREA LIGHTING. ALL BUILDING-MOUNTED LIGHTING SHALL COMPLY WITH CITY OF LEES SUMMIT UDC SECTIONS 8.220, 8.260, & 8.270.
4. SEE SHEET S1.F FOR PHOTOMETRIC DATA SUMMARY & FIXTURE SCHEDULE.

