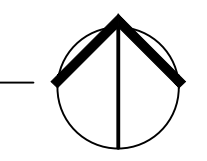
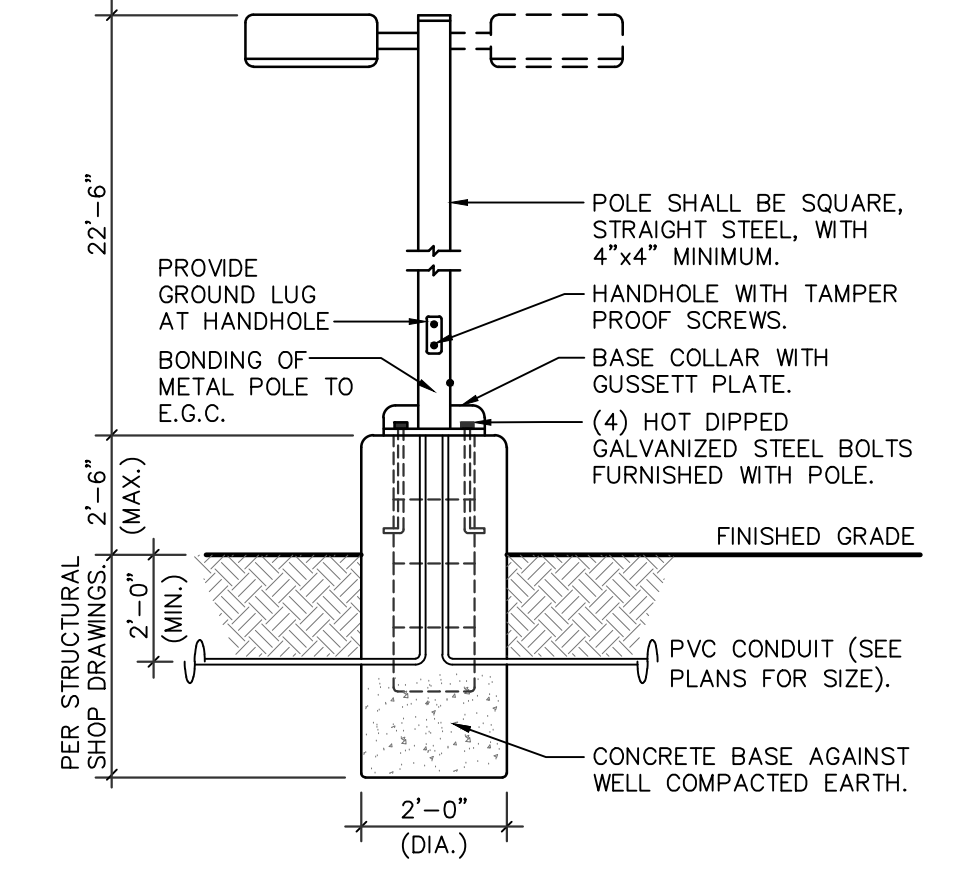


ELECTRICAL PHOTOMETRICS SITE PLAN

1" = 30'-0"



POLE MOUNTED FIXTURE DETAIL



FIXTURE TYPE 'P1'

THE POLE CONCRETE BASE DETAIL IS SHOWN FOR ELECTRICAL ROUGH-IN AND SHALL NOT BE USED FOR THE ACTUAL BASE CONSTRUCTION. POLE BASE SHALL BE DESIGNED BY A REGISTERED STRUCTURAL PROFESSIONAL ENGINEER AND CONSTRUCTED PER STRUCTURAL ENGINEERS SEALED CONSTRUCTION DOCUMENT.
NOTE: ELECTRICAL CONTRACTOR SHALL BOND METAL POLE PER NEC 410.30(B)(5) AS SHOWN IN DETAIL.

NOTE: PRE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY NOT LESS THAN 30% DURING POST-CURFEW TO COMPLY WITH IECC 2024 C405.2.7. EXTERIOR LIGHTING CONTROLS.

GENERAL NOTES - SITE

- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
- ELECTRICAL CONTRACTOR SHALL CONTACT TELEPHONE COMPANY REGARDING EXACT LOCATION OF ALL PRIMARY SERVICE EQUIPMENT, TRENCH LOCATION, ETC.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE TRENCHING, BACKFILL, AND CONDUIT STUBS INTO TRENCH AS REQUIRED BY TELEPHONE COMPANY AND TO THEIR SPECIFICATIONS.
- ALL WIRING FOR OUTSIDE LIGHTING SHALL BE A MINIMUM OF #10 COPPER WITH TYPE THWN INSULATION. RUN UNDERGROUND CIRCUITS IN P.V.C. AND PROVIDE A #10 COPPER BOND IN ADDITION TO CIRCUIT CONDUCTORS. UNDERGROUND WIRING SHALL COMPLY WITH APPLICABLE CODES OF THE NEC.
- ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY SECONDARY CONDUCTORS, POWER TRENCHING, BACKFILL AND CONCRETE PADS FOR TRANSFORMERS AND SERVICE EQUIPMENT. ADDITIONALLY PROVIDE CONDUIT STUBS INTO TRENCH PER POWER COMPANY SPECIFICATIONS AND REQUIREMENTS.
- ALL WIRING SHALL BE COPPER. WIRING #4 AWG AND LARGER SHALL BE XHHW TYPE INSULATION.

UTILITY COMPANY NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH SERVING UTILITY COMPANY AND THEIR SPECIFIC REQUIREMENTS WITHIN (5) DAYS OF AWARD OF CONTRACT.
- PROVIDE SERVING UTILITY COMPANY WITH ONE (1) FULL SET OF PLANS INCLUDING SITE PLAN, ONE-LINE DIAGRAM, AND TOTAL LOAD SUMMARY.
- CONFIRM ALL UTILITY COMPANY REQUIREMENTS PRIOR TO TRENCHING.
- CONTRACTOR SHALL COORDINATE WITH SERVING UTILITY COMPANY IF AN UPGRADE IS REQUIRED TO UTILITY TRANSFORMER OR SECONDARY CONDUIT AND CONDUCTORS.
- CONTRACTOR SHALL COORDINATE EXACT COSTS (PER AMP CHARGE, ECT.) OF ANY ADDITIONAL WORK WITH SERVING UTILITY COMPANY PRIOR TO START OF CONSTRUCTION.

UTILITY COMPANY CONTACT
Power Company:
APS
Representative:
CONSTRUCTION SERVICES
Telephone #:
(602) 371-6767

PRIOR TO ANY GROUND EXCAVATION CALL
ARIZONA 811
8-1-1
(602) 659-7500

LUMINAIRE SCHEDULE

- PROVIDE 90 MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
- MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
- BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT, ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
- ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES, TO BE BILLED TO THE CONTRACTOR.
- PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS GR/CCT INPUT WATTS	REMARKS/MOUNTING
SA	VISIONAIRE LIGHTING PGS-2-T4-80LC-7 4K-UNV-WM	MVOLT	LED 4000K 171.0 WATTS	WALL MOUNTED FIXTURE. PROVIDE WITH PHOTOCELL AND OCCUPANCY SENSOR.
SB	LITHONIA LIGHTING DSX1 LED P9 40K 80CRI BLC4/ SSS	MVOLT	LED 4000K 279.0 WATTS	POLE MOUNTED FIXTURE WITH 22.5' POLE ON 2.5' BASE. PROVIDE WITH PHOTOCELL AND OCCUPANCY SENSOR.
EM	LITHONIA LIGHTING AFN DB EXT	MVOLT	INCLUDED (2 LAMPS)	EXTERIOR EMERGENCY EGRESS FIXTURE WITH 90MINUTE BATTERY BACK UP.

KALTECH EXPANSION

7307 S 89TH PLACE
MESA, ARIZONA 85212

LGE DESIGNBUILD

NUMBER REVISION DATE

PRELIMINARY NOT FOR CONSTRUCTION

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Expires: XX/XX/XX

DESIGN CODES
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Project Contact/Designer: JACOB POTTS
Project # 25458
HAWKINS DESIGN GROUP INC.
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1140 WEST HARVEL ROAD
GLENDALE, ARIZONA 85233
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EMAIL email@hawkinsdg.com

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IF DRAWING IS NOT PLOTTED AT 24X36 THEY ARE NOT FULL SIZE

SHEET TITLE:
ELECTRICAL PHOTOMETRICS SITE PLAN
ISSUE DATE: 02/20/26
DRAWN BY: JP
CHECKED BY:
PROJECT NO.:
SHEET:

DR1.0

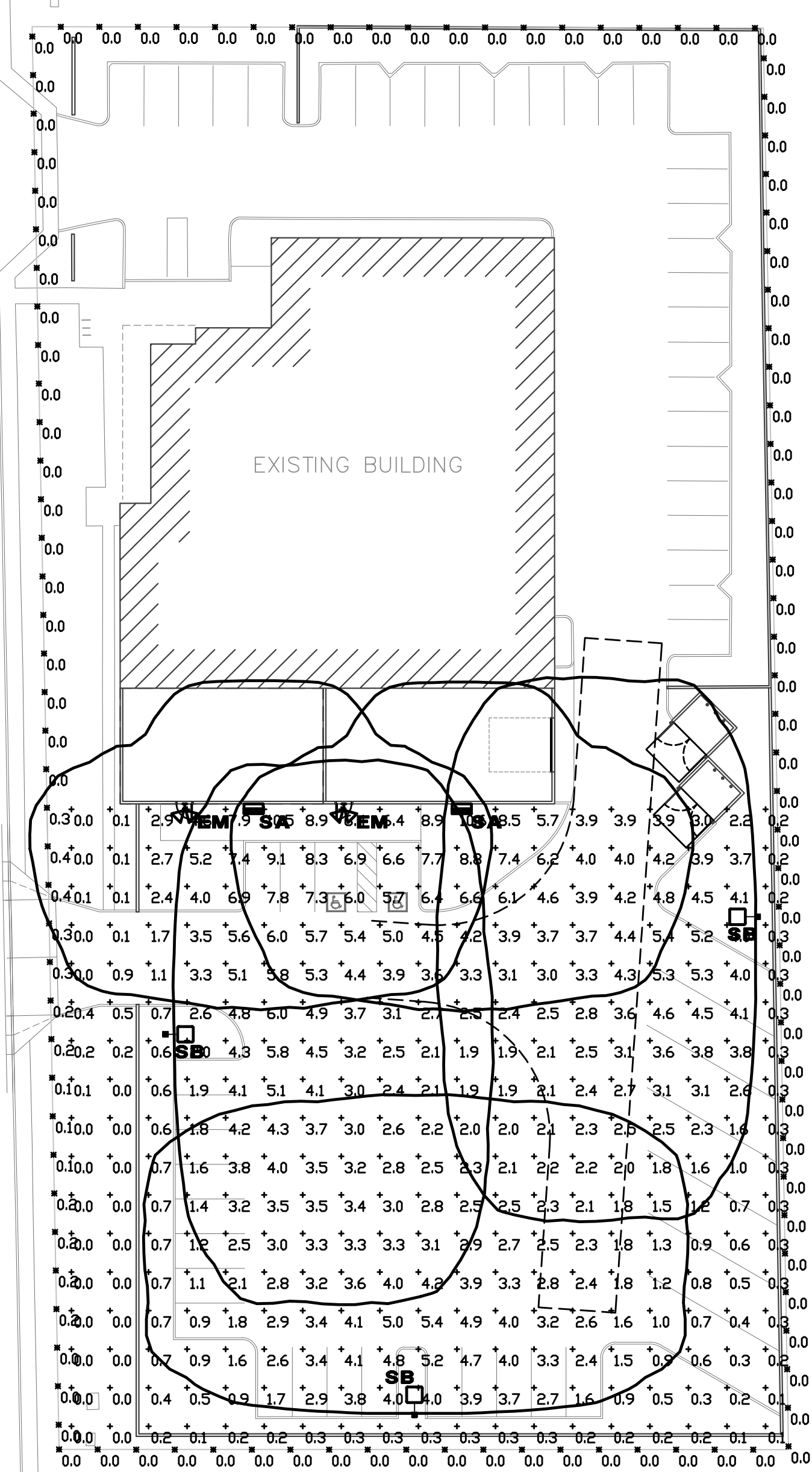
DESIGN REVIEW SUBMITTAL - 02/20/26

LGE DESIGNGROUP

1200 N. 52nd Street ■ Phoenix, AZ ■ 85008
P: 480.966.4001

Schedule												
Symbol	Label	QTY	Manufacturer	Catalog	Description	Lamp	Number Lamps	Lamp Output	Intensity Multiplier	LLF	Total Output	Input Power
	EM	2	LITHONIA	AFN DB EXT	ARCHITECTURAL EMERGENCY LIGHTING, CLEAR PRISMATIC LENS.	LED	2	1	1	1	2	12
	SA	2	VISIONAIRE	PGS-2-T4-80LC-7-4K-UNV-WM	20 in L x 20 in W x 6 in H LED Luminaire	LED 4000K	1	18105	1	0.95	18105	171
	SB	3	LITHONIA	DSX1 LED P9 40K 80CRI BLC4/ SSS 22.5' PDLE DN 2.5' BASE	D-Series Size 1 Area Luminaire P9 Performance Package 4000K CCT 80 CRI Type 4 Extreme Backlight Control	LED 4000K	1	23440	1	0.95	23440	277.07

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROP LINE @ 3'	X	0.0 fc	0.4 fc	0.0 fc	N/A	N/A
FC ON SITE AT GRADE	+	2.7 fc	10.6 fc	0.0 fc	N/A	N/A



PHOTOMETRIC CALCULATIONS HAVE BEEN PROVIDED TO HAWKINS DESIGN GROUP BY LIGHTING MANUFACTURER'S LOCAL REPRESENTATIVE. ANY LIGHT FIXTURE SUBSTITUTIONS SHALL REQUIRE LIGHTING REPRESENTATIVE OF PROPOSED SUBSTITUTIONS TO PROVIDE NEW PHOTOMETRIC CALCULATIONS TO REVISE PHOTOMETRIC PLANS. ADDITIONAL FEE MAY BE REQUIRED.

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SITE LIGHTING PHOTOMETRICS PLAN

1" = 30'-0"



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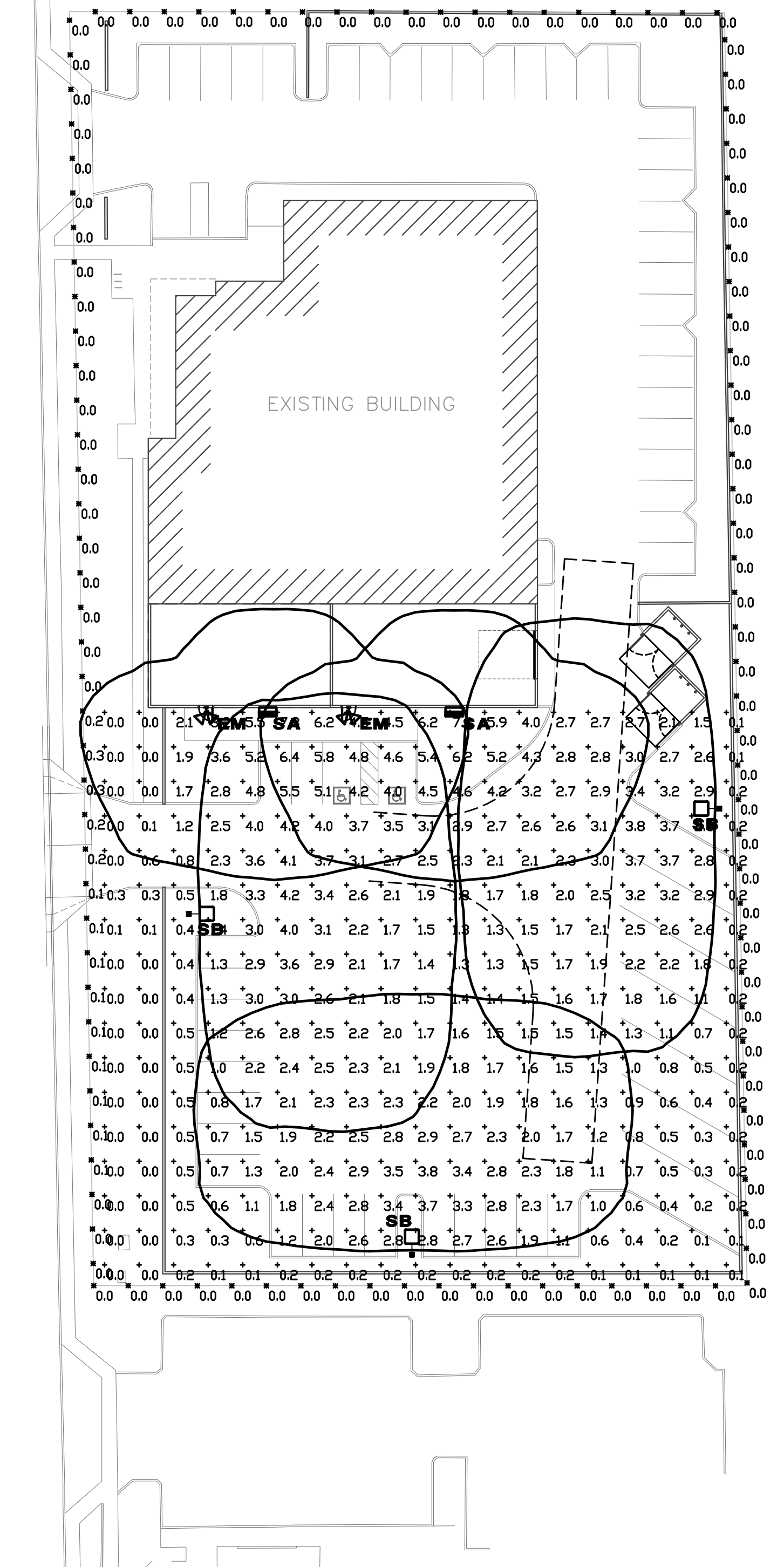
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 DRAWN BY: JP
 CHECKED BY:
 PROJECT NO.:
 SHEET:

DR2.0

Schedule												
Symbol	Label	QTY	Manufacturer	Catalog	Description	Lamp	Number Lamps	Lamp Output	Intensity Multiplier	LLF	Total Output	Input Power
	EM	2	LITHONIA	AFN DB EXT	ARCHITECTURAL EMERGENCY LIGHTING, CLEAR PRISMATIC LENS.	LED	2	1	0.7	1	1	12
	SA	2	VISIONAIRE	PGS-2-T4-80LC-7-4K-UNV-WM	20 in L x 20 in W x 6 in H LED Luminaire	LED 4000K	1	18105	0.7	0.95	12674	171
	SB	3	LITHONIA	DSX1 LED P9 40K 80CRI BLC4/ SSS 22.5' POLE DN 2.5' BASE	D-Series Size 1 Area Luminaire P9 Performance Package 4000K CCT 80 CRI Type 4 Extreme Backlight Control	LED 4000K	1	23440	0.7	0.95	16408	277.07

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Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROP LINE @ 3'	X	0.0 fc	0.3 fc	0.0 fc	N/A	N/A
FC DN SITE AT GRADE	+	1.9 fc	7.4 fc	0.0 fc	N/A	N/A



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SITE LIGHTING IECC DIMMED PHOTOMETRICS PLAN
1" = 30'-0"

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