

FIRST ISSUANCE: 5/27/22

## REVISIONS

No. DATE DESCRIPTION

No.	DATE	DESCRIPTION

PROJECT NO: 21216.00

DRAWN BY: MA

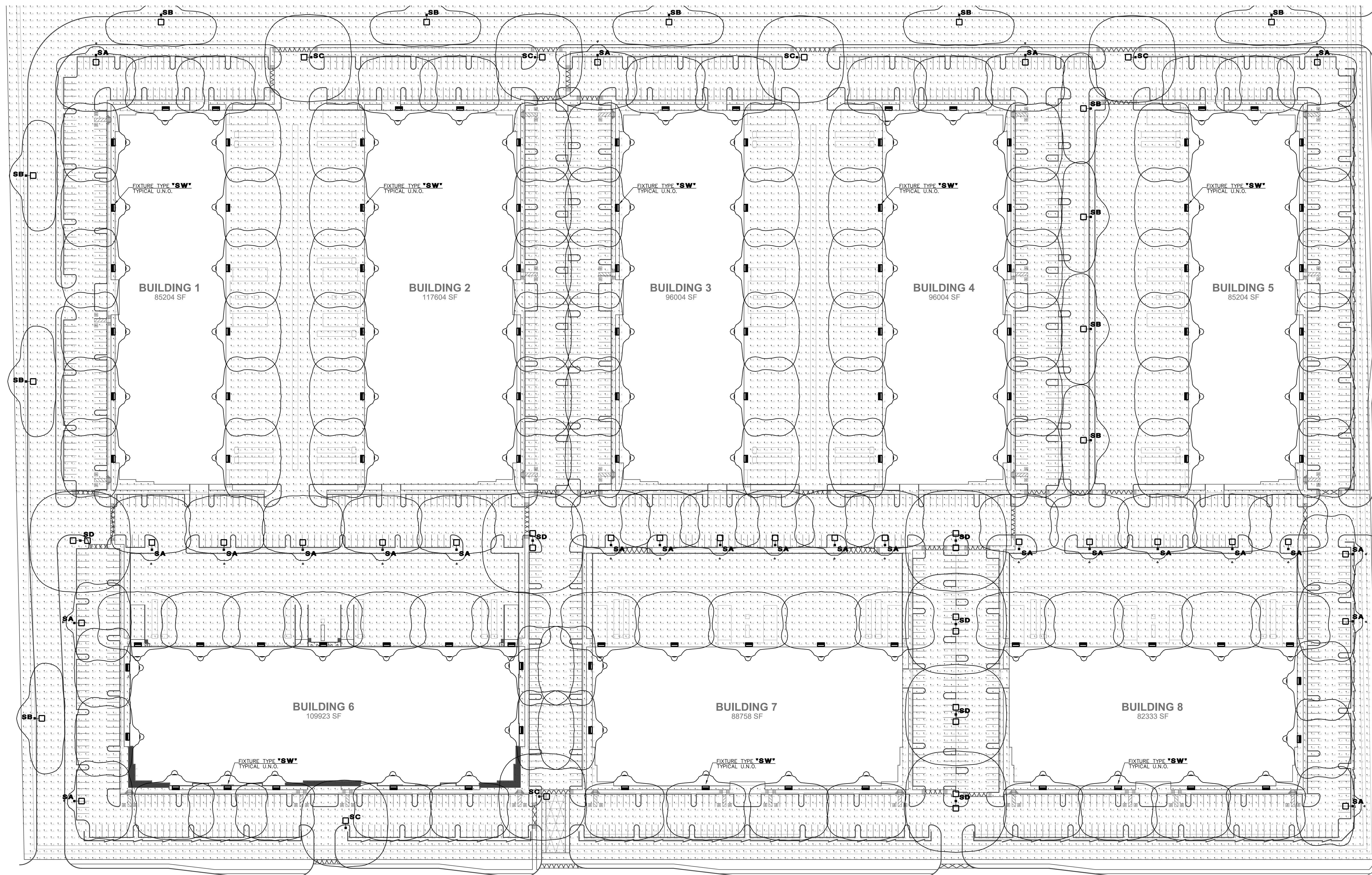
CHK'D BY: AG

COPYRIGHT 2022: DEUTSCH

ARCHITECTURE GROUP

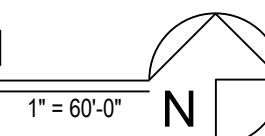
ELECTRICAL  
PRE CURFEW  
SITE PHOTOMETRIC

DR-100



ELECTRICAL PRE CURFEW SITE PHOTOMETRIC PLAN

SCALE



Qty	Label	Symbol	Manufacturer	Description	MR	LLF	Lumens	Watts	Total Watts	BUG Rating
25	SA		Beacon Products	VP-2-72L-180-4K7-4F	25"	0.900	21367	179.4	4485	B2-U0-G4
12	SB		HUBBELL OUTDOOR	VP-2-320L-145-4K7-2	25"	0.900	21536	150	1800	B3-U0-G3
6	SC		HUBBELL OUTDOOR	VP-2-320L-145-4K7-5QW	25"	0.900	21867	150	900	B5-U0-G3
6	SD		HUBBELL OUTDOOR	VP-2-320L-145-4K7-5QW	25"	0.900	21867	150	1800	B5-U0-G3
108	SW		Beacon Products	VP-2-72L-180-4K7-4F-WB	25"	0.900	21367	179.4	19375.2	B2-U0-G4

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site Planar	Illuminance	Fc	1.73	6.6	0.0	N.A.	N.A.

DESIGN CODES  
IECC, 2018 NEC, 2017ELECTRICAL CONTRACTOR SHALL NOTIFY  
DESIGNER/ENGINEER PRIOR TO ANY DEVIATION  
FROM THIS SET OF ELECTRICAL DESIGN PLANS.  
ANY CHANGES TO THE DESIGN, IF APPROVED  
BY ENGINEER, WILL REQUIRE REVISIONS TO  
PLANS AND POSSIBLE ADDITIONAL SERVICE  
FEE.PRELIMINARY  
NOT FOR CONSTRUCTIONProject Contact/Designer: MINDY ADLER  
Project # 22267  
HAWKINS DESIGN GROUP INC.  
ELECTRICAL CONSULTING ENGINEERS  
140 WEST HAVEN ROAD  
GLIBERT, ARIZONA 85233  
PH 480.813.5000 FAX 480.813.9001  
EMAIL: emma@hawkinsdesign.com  
All concepts, designs and data indicated on these drawings are the sole property of  
the Hawkins Design Group Inc. and shall not be used for any other purpose other  
than originally intended without written permission of the engineer.

IF DRAWING IS NOT PLOTTED AT 30 X 42 THEY ARE NOT FULL SIZE



FIRST ISSUANCE: 5/27/22

## REVISIONS

No. DATE DESCRIPTION

No.	DATE	DESCRIPTION

PROJECT NO: 21216.00

DRAWN BY: MA

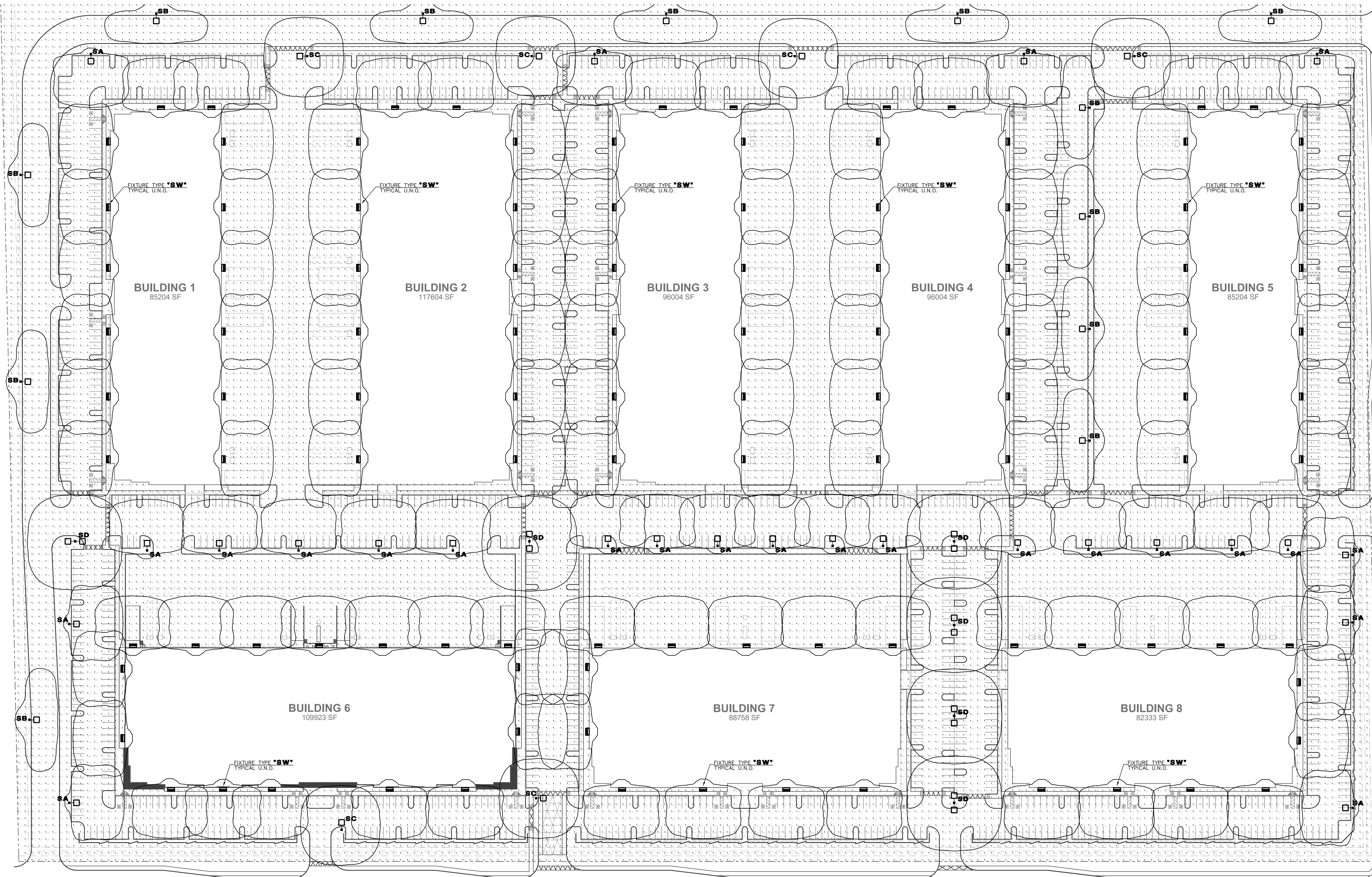
CHK'D BY: AG

COPYRIGHT 2022: DEUTSCH

ARCHITECTURE GROUP

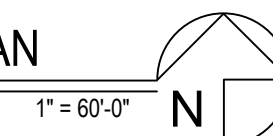
ELECTRICAL  
POST CURFEW  
SITE PHOTOMETRIC

DR-200



ELECTRICAL POST CURFEW SITE PHOTOMETRIC PLAN

SCALE



Qty	Label	Symbol	Manufacturer	Description	MH	LLF	Lumens	Watts	Total Watts	BUG Rating
25	SA		Beacon Products	VP-2-72L-180-4K7-4F	25"	0.650	21367	179.4	4485	B2-U0-G4
12	SB		HUBBELL OUTDOOR	VP-2-320L-145-4K7-2	25"	0.650	21536	150	1800	B3-U0-G3
6	SC		HUBBELL OUTDOOR	VP-2-320L-145-4K7-5QW	25"	0.650	21867	150	900	B5-U0-G3
6	SD		HUBBELL OUTDOOR	VP-2-320L-145-4K7-5QW	25"	0.650	21867	150	1800	B5-U0-G3
108	SW		Beacon Products	VP-2-72L-180-4K7-4F-WB	25"	0.650	21367	179.4	19375.2	B2-U0-G4

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Site Planar	Illuminance	Fc	1.25	4.8	0.0	N.A.	N.A.

DESIGN CODES  
IECC, 2018 NEC, 2017ELECTRICAL CONTRACTOR SHALL NOTIFY  
DESIGNER/ENGINEER PRIOR TO ANY DEVIATION  
FROM THIS SET OF ELECTRICAL DESIGN PLANS.  
ANY CHANGES TO THE DESIGN, IF APPROVED  
BY ENGINEER, WILL REQUIRE REVISIONS TO  
PLANS AND POSSIBLE ADDITIONAL SERVICE  
FEE.PRELIMINARY  
NOT FOR CONSTRUCTIONProject Contact/Designer: MINDY ADLER  
Project # 22267  
HAWKINS DESIGN GROUP INC.  
ELECTRICAL CONSULTING ENGINEERS  
140 WEST HAVEN ROAD  
GLIST, ARIZONA 85233  
PH 480.813.5000 FAX 480.813.9001  
EMAIL: mhawkins@hawkinsdg.com  
All concepts, designs and data indicated on these drawings are the sole property of  
the Hawkins Design Group Inc., and shall not be used for any other purpose other  
than originally intended without written permission of the engineer.

IF DRAWING IS NOT PLOTTED AT 30 X 42 THEY ARE NOT FULL SIZE



[illegible]

FIXTURE TYPES: '0A', '0B', '0C', '0D', '0W'

# VIPER Area/Site

VIPER LUMINAIRE

## FEATURES

- Low profile LED avalanche luminaire with a variety of IES distributions for lighting applications such as aisleway, retail, commercial, and campus parking lots
- Featuring two different optical configurations, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 15g
- Control options including photo control, occupancy sensing, NKS Distributed Intelligence™, wSCAPE and 2-pin with networked controls
- New customizable Lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may arise
- Field interchangeable housing provides additional flexibility after the fixture has shipped

## CONTROL TECHNOLOGY

NKS DISTRIBUTED INTELLIGENCE™ wSCAPE

## SPECIFICATIONS

### CONSTRUCTION

- Discast housing with hardened vertical heat fins are optimal for heat dissipation while providing a clear smooth surface finish
- Corrosion resistant, die-cast aluminum housing
- 1000 hour powder coat paint from 3M
- External hardware is corrosion resistant

### OPTICS

- Micro Strike Optics (P60, 320, 480, or 600) provides maximum intensity in any application and come standard with mid-range optics which evenly illuminate the entire luminaire surface area to provide a low glare experience. Catalog link: [page 2](#)
- Strike Optics (P6, 36, 72, 108, or N62 LED counts) provide beam in class distributions and maximum pole spacing in new applications
- Both Micro Strike and Strike Optics are held in place by a polycarbonate blend to help control the light. Strike Optics so both solutions can be combined to create a site application. Catalog link: [page 2](#)

- Both optics maximize target zone illumination with minimal spillage at the footcandle, reducing light trespass issues. Additional backscatter control shields and house shoe controls can be added for further reduction of illumination behind the luminaire
- One-piece silicone gasket ensures a weathertight seal
- Zero up-light at 0 degrees of tilt
- Field replaceable optics

### INSTALLATION

- Mourning patterns for each arm can be found on [page 11](#)
- Optional universal mounting bracket for ease of installation during retrofit applications. Available as an option (ASU) or accessory (square and round poles)
- All mounting hardware included

### INSTALLATION (CONTINUED)

- Kurckie arm filter option available for 3'x8' or 6'x10' option

- For products with EMI less than 1 mired to a pole greater than 20ft, a vibration damper is recommended

### ELECTRICAL

- Universal I2D-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kV protection meeting ANSI/IEEE C62.47-2 Category C1 High and Surge Location Category C2. Automatically takes fixture offline for protection when event is compromised

### CONTROLS

- Photo control, occupancy sensor programmable with 1000000 1/2 degree wireless control modules available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations will not operate as anticipated depending on your application
- 7 pin ANSI C38.6-2011 preselected receptacle option available for twist lock photometric or wireless control modules (control accessories sold separately)

- 0-10V Dimming Drivers are standard and dimming levels are extended up to the luminaire control options not having connection to the dimming leads. Must sign off wiring leads to be greater than the 6" standard

KEY DATA	
Lumen Range	5,000-80,000
Wattage Range	36-600
Efficiency Range (LPW)	92-155
Weight (lbs., kg)	13.7/3.9 to 9.6/2.19

### CONTROLS (CONTINUED)

- NKS Distributed Intelligence™ available in fixture wireless control module, features dimming and occupancy sensor
- wSCAPE available in fixture wireless control module, features dimming and occupancy sensor. Also available in 2-pin configuration

### CERTIFICATIONS

- Meets the qualifications for DLC Premium
- UL listed to UL 818 and IES C2-24/25-04, 24 ft for wet locations and 40°C ambient temperatures
- 1.5 g rated to ANSI C38.6.31 high vibration applications
- Fixture is IP65 rated
- Meets IESNA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 12.212 of Buy American Construction 12.212 (a)(2) Buy American Certificate 04/23/2020. See Buy American Solutions.

### WARRANTY

- 5-year warranty
- See [LH Commercial and Industrial Outdoor Lighting Warranty](#) for additional information

P/N: VP-320L-350-4K-3K7-2R-UNV-A3-BLT  
 BEACON by SIRC

© 2022 Beacon Technology, a division of HUBbell Lighting, Inc. Specifications subject to change without notice.  
 101 Main Street, Brewster, MA 02632 • Tel: 866.578.5007 • Tel: 866.578.5000 • [sales@beaconlighting.com](mailto:sales@beaconlighting.com)

**HUBBELL**  
 Lighting

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG # \_\_\_\_\_


Example: VP-320L-350-4K-3K7-2R-UNV-A3-BLT

CATALOG #

Series	Optic Platform	Size	Light Engine	CT/CRI	Distribution	Optic Rotation	Voltage
VP	Victor	Micro Site	1 Spot	160K 350 160K 350 160K 75 160K 100 160K 125 160K 150 160K 175 160K 200 160K 225 160K 250 160K 275 160K 300 160K 350 160K 400 160K 450 160K 500 160K 550 160K 600 160K 650 160K 700 160K 750 160K 800 160K 850 160K 900 160K 950 160K 1000 160K 1050 160K 1100 160K 1150 160K 1200 160K 1250 160K 1300 160K 1350 160K 1400 160K 1450 160K 1500 160K 1550 160K 1600 160K 1650 160K 1700 160K 1750 160K 1800 160K 1850 160K 1900 160K 1950 160K 2000 160K 2050 160K 2100 160K 2150 160K 2200 160K 2250 160K 2300 160K 2350 160K 2400 160K 2450 160K 2500 160K 2550 160K 2600 160K 2650 160K 2700 160K 2750 160K 2800 160K 2850 160K 2900 160K 2950 160K 3000 160K 3050 160K 3100 160K 3150 160K 3200 160K 3250 160K 3300 160K 3350 160K 3400 160K 3450 160K 3500 160K 3550 160K 3600 160K 3650 160K 3700 160K 3750 160K 3800 160K 3850 160K 3900 160K 3950 160K 4000 160K 4050 160K 4100 160K 4150 160K 4200 160K 4250 160K 4300 160K 4350 160K 4400 160K 4450 160K 4500 160K 4550 160K 4600 160K 4650 160K 4700 160K 4750 160K 4800 160K 4850 160K 4900 160K 4950 160K 5000 160K 5050 160K 5100 160K 5150 160K 5200 160K 5250 160K 5300 160K 5350 160K 5400 160K 5450 160K 5500 160K 5550 160K 5600 160K 5650 160K 5700 160K 5750 160K 5800 160K 5850 160K 5900 160K 5950 160K 6000 160K 6050 160K 6100 160K 6150 160K 6200 160K 6250 160K 6300 160K 6350 160K 6400 160K 6450 160K 6500 160K 6550 160K 6600 160K 6650 160K 6700 160K 6750 160K 6800 160K 6850 160K 6900 160K 6950 160K 7000 160K 7050 160K 7100 160K 7150 160K 7200 160K 7250 160K 7300 160K 7350 160K 7400 160K 7450 160K 7500 160K 7550 160K 7600 160K 7650 160K 7700 160K 7750 160K 7800 160K 7850 160K 7900 160K 7950 160K 8000 160K 8050 160K 8100 160K 8150 160K 8200 160K 8250 160K 8300 160K 8350 160K 8400 160K 8450 160K 8500 160K 8550 160K 8600 160K 8650 160K 8700 160K 8750 160K 8800 160K 8850 160K 8900 160K 8950 160K 9000 160K 9050 160K 9100 160K 9150 160K 9200 160K 9250 160K 9300 160K 9350 160K 9400 160K 9450 160K 9500 160K 9550 160K 9600 160K 9650 160K 9700 160K 9750 160K 9800 160K 9850 160K 9900 160K 9950 160K 10000 160K 10050 160K 10100 160K 10150 160K 10200 160K 10250 160K 10300 160K 10350 160K 10400 160K 10450 160K 10500 160K 10550 160K 10600 160K 10650 160K 10700 160K 10750 160K 10800 160K 10850 160K 10900 160K 10950 160K 11000 160K 11050 160K 11100 160K 11150 160K 11200 160K 11250 160K 11300 160K 11350 160K 11400 160K 11450 160K 11500 160K 11550 160K 11600 160K 11650 160K 11700 160K 11750 160K 11800 160K 11850 160K 11900 160K 11950 160K 12000 160K 12050 160K 12100 160K 12150 160K 12200 160K 12250 160K 12300 160K 12350 160K 12400 160K 12450 160K 12500 160K 12550 160K 12600 160K 12650 160K 12700 160K 12750 160K 12800 160K 12850 160K 12900 160K 12950 160K 13000 160K 13050 160K 13100 160K 13150 160K 13200 160K 13250 160K 13300 160K 13350 160K 13400 160K 13450 160K 13500 160K 13550 160K 13600 160K 13650 160K 13700 160K 13750 160K 13800 160K 13850 160K 13900 160K 13950 160K 14000 160K 14050 160K 14100 160K 14150 160K 14200 160K 14250 160K 14300 160K 14350 160K 14400 160K 14450 160K 14500 160K 14550 160K 14600 160K 14650 160K 14700 160K 14750 160K 14800 160K 14850 160K 14900 160K 14950 160K 15000 160K 15050 160K 15100 160K 15150			

Page 2/13 Rev. 01/12/22  
DEA-VIPER-S-SPEC

© 2022 Beacon Products, a division of Hubbell Lighting, Inc. Specifications subject to change without notice.  
701 Millennium Boulevard • Greenville, SC 29607 • Tel 864.678.1000 / Website [www.beaconproducts.com](http://www.beaconproducts.com)

 **HUBBELL**  
Lighting

**POLE MOUNTED FIXTURE DETAIL**

22'-6"

PROVIDE  
GROUND LUG  
AT HANDHOLE  
BONDING OF  
METAL POLE  
TO E.G.C.

POLE SHALL BE SQUARE,  
STRAIGHT STEEL, WITH  
4"x4" MINIMUM.

HANDHOLE WITH TAMPER  
PROOF COVERING.

BASE COLLAR WITH  
USSETT PLATE.

(4) HOT DIPPED  
GALVANIZED STEEL BOLTS  
FURNISHED WITH POLE.

FINISHED GRADE

2'-0" (MAX.)

2'-0" (MIN.)

PVC CONDUIT (SEE  
PLANS FOR SIZE).

CONCRETE BASE AGAINST  
WELL COMPACTED EARTH.

2'-0" (DIA.)


PER STRUCTURAL  
SHOP DRAWINGS

**FIXTURE TYPE 'SA','SB','SC','SD'**

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.

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**



Project Contact/Designer: **MINDY ADLER**  
 Project # **22267**

**HAWKINS DESIGN GROUP INC.**  
**ELECTRICAL CONSULTING ENGINEERS**  
 1240 WEST HARVELL ROAD  
 GILBERT, ARIZONA 85233  
 PH 480.813.9000 FAX 480.813.9001  
 EMAIL [email@hawkinsdsg.com](mailto:email@hawkinsdsg.com)

All concepts, designs and data indicated on these drawings are the sole property of the Hawkins Design Group Inc. and shall not be used for any other purpose other than originally intended without written permission of the engineer.

IF DRAWING IS NOT PLOTTED AT 30 X 42 THEY ARE NOT FULL SIZE

DESIGN CODES  
IECC, 2018      NEC, 2017

**ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.**

All concepts, designs and data indicated on these drawings are the sole property of the Hawkins Design Group Inc., and shall not be used for any other purpose other than originally intended without written permission of the engineer.