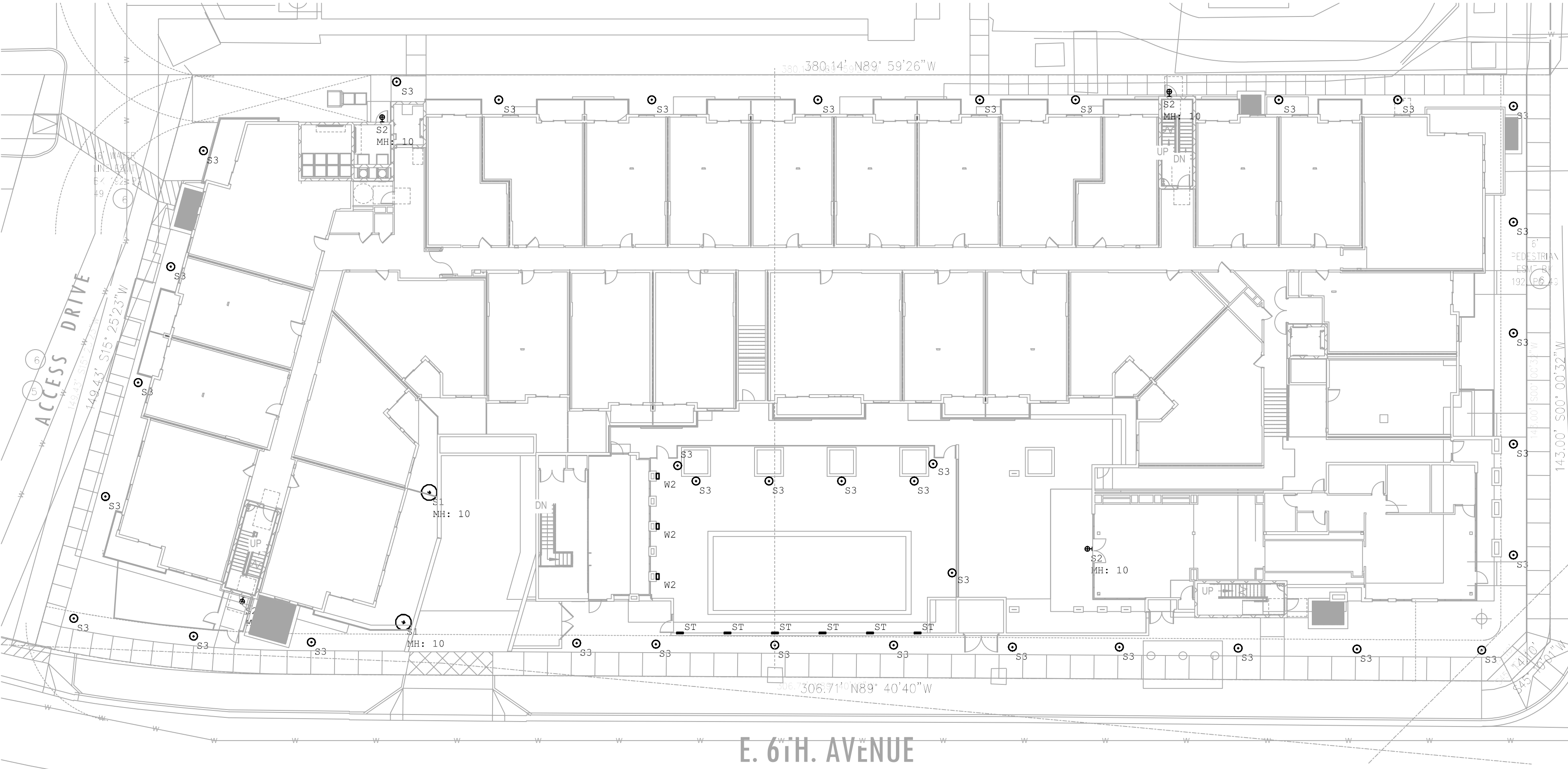
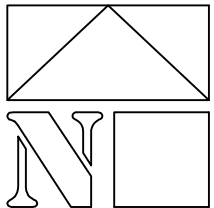


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ELECTRICAL SITE LIGHTING PLAN

SCALE: 1" = 20'-0"



Schedule							
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Efficiency
	SI	2	Selux Corporation	MST-R4-1-5c530-30-12--BZ-UNV-HS/MST440-8-BZ-MSTBC13	Black formed cast aluminum housing, plastic optic, black plastic house side shields, no enclosure. Post Top mounted AT +10FT. TOP OF	48W LED 3000K	100%
	S2	4	SIGNIFY - STONCO	LPW6 30 WW-03 3 UNV BZ. BRONZE FINISH.	WALL MOUNT LED LIGHT. +10" A.F.F.	30W LED 3000K	100%
	S3	37	BEGA	84 107 K3 BRZ. BRONZE FINISH.	ASSYMETRIC LED BOLLARD LIGHT. +47" TALL.	19.4W LED 3000K 90 CRI	100%
	W1		NOT USED				
	W1E		NOT USED				
	W2	3	WAC LIGHTING	WS-W15912 BZ BRONZE FINISH	WALL SCONCE ADA. SURFACE MOUNTED AT +6'-0" FROM TOP OF FIXTURE.	10W LED 3000K	99%
	W3		NOT USED				
	B0		NOT USED				
	ST	6	HYDREL	HSL13 9INCH LED 30K MVOLT L BB LBPS. LIGHT BRONZE FINISH.	11.50" LONG LED STEP LIGHT. +18" @ A.F.F.	8W LED 3000K	100%

T.O.F. ALL LIGHTING FIXTURE HEIGHT NOTED IS MEASURED FROM TOP OF FIXTURE TO ABOVE FINISHED FLOOR.

NOTES:

- ALL LIGHTING FIXTURE HEIGHT NOTED ON THIS SHEET ARE MEASURED FROM TOP OF FIXTURE TO ABOVE FINISHED FLOOR.
- REFER TO ARCHITECTURAL EXTERIOR ELEVATION PLANS FOR BUILDING MOUNTED LIGHTING FIXTURES LOCATIONS.

NOTE#

COORDINATE AND VERIFY EXACT LOCATION AND QUANTITIES OF ALL GROUND MOUNTED LIGHTING FIXTURES WITH LANDSCAPE ARCHITECT BEFORE ROUGH-IN. ALL EXTERIOR SITE LIGHTING FIXTURES SHALL BE U.L. LISTED FOR WET LOCATIONS.

GENERAL NOTES: UTILITIES DISTRIBUTION

- THIS APARTMENT BUILDINGS IS 4-STORY BUILDING WITH 1-LEVEL OF UNDERGROUND PARKING.
- SEE LANDSCAPE ARCHITECT DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES INDICATED ON THIS SHEET.
- MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 3/4".
- ALL UNDERGROUND RUNS FOR OUTDOOR LIGHTING SHALL BE CIRCUITED WITH #10 AWG, THHN CU. IN PVC CONDUIT UNLESS NOTED OTHERWISE. PROVIDE BOND WIRE PER 2017 N.E.C.
- ALL HOUSE LIGHTING, THIS SHEET, ROUTED WITHIN BUILDING STRUCTURES AND NOT BELOW GRADE IN PVC CONDUIT SHALL BE ROUTED IN EMT, FLEX OR MC CABLE.
- ALL PENETRATIONS OF FIRE RATED WALLS & CEILINGS SHALL BE EXECUTED PER LOCAL AND ALL APPLICABLE CODES.
- CABLE TELEVISION, TELEPHONE AND SECURITY SYSTEM SHALL BE PRE-WIRED BY ELECTRICAL CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT WIRING, LIGHTING, ETC., IN AND ADJACENT TO THE SWIMMING POOL, SPA AND DECORATIVE FOUNTAIN SHALL COMPLY WITH N.E.C. ARTICLE 680.
- DIRECT-BURIED CABLE OR CONDUIT OR OTHER RACEWAYS SHALL BE INSTALLED TO MEET THE MINIMUM COVER REQUIREMENTS OF NEC TABLE 300.5

FIRE ALARM NOTES:

ELECTRICAL CONTRACTOR SHALL PROVIDE A DESIGN/BUILD FIRE ALARM SYSTEM FOR THIS PROJECT. COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL FIRE AND BLDG. CODES. SUBMIT DRAWINGS TO AUTHORITIES HAVING JURISDICTION FOR APPROVAL.

KEYED NOTES: (#)

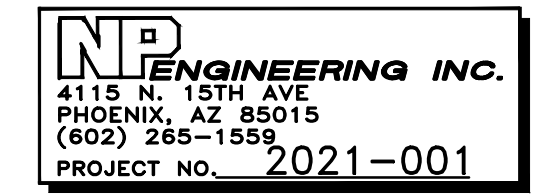
- FIXTURE TYPE "W1E". FULL CUTOFF FIXTURE WITH EMERGENCY BATTERY BACK-UP MINIMUM OF 90 MINUTES. PROVIDE A SEPARATE UNSWITCHED HOT WIRE FOR BATTERY BACK-UP CIRCUIT SHALL BE SAME CIRCUIT CONNECTED TO LUMINAIRE EXCEPT UNSWITCHED.

TOLL
MAZA

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SCOTTSDALE, AZ 85251



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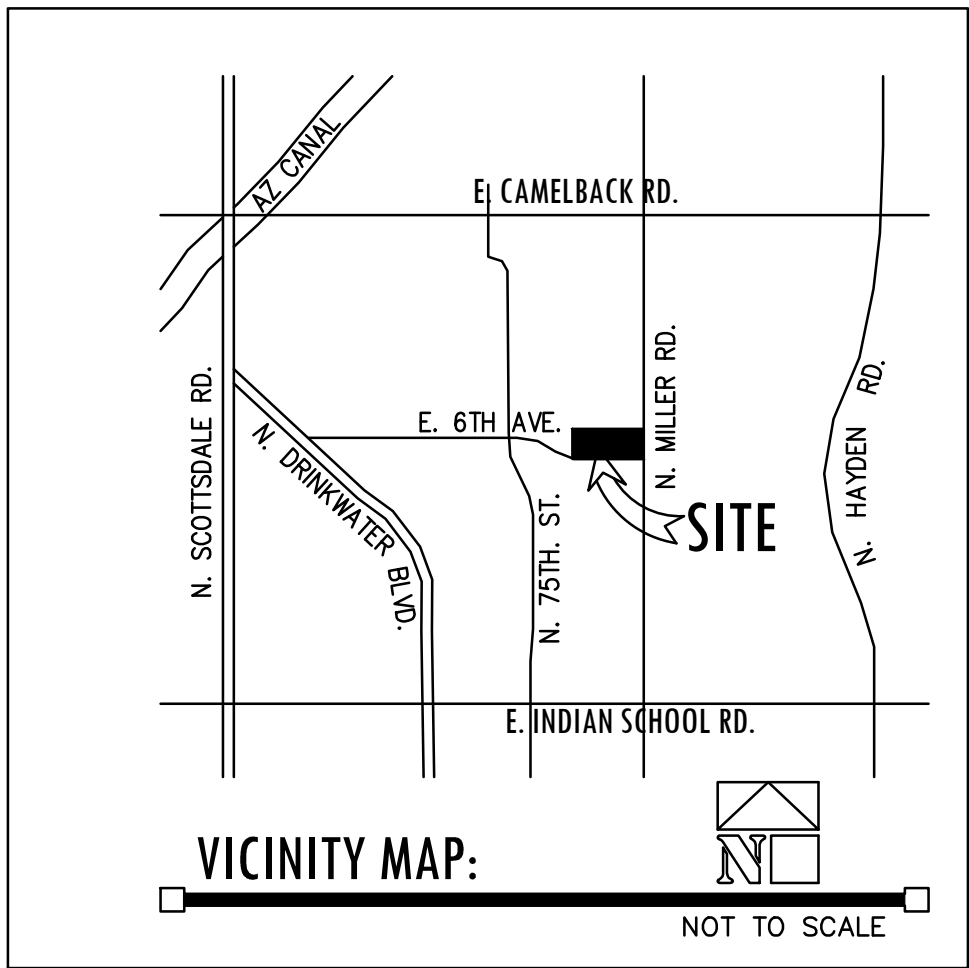
REVISIONS

DRB SUBMITTAL

DATE: JANUARY 17, 2022 ORB # 19-220

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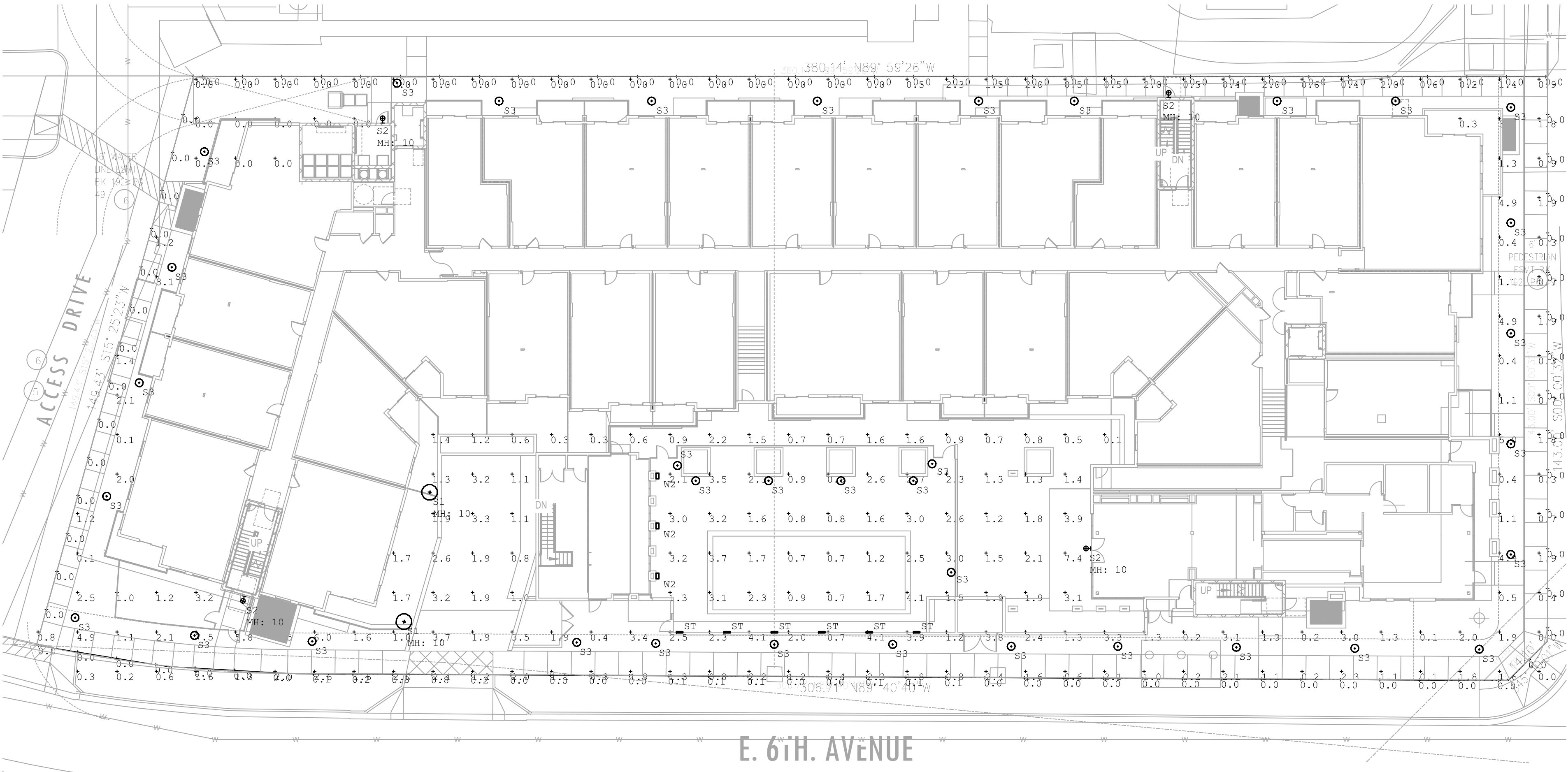
ELECTRICAL SITE
LIGHTING PLAN



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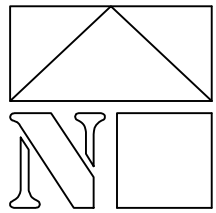
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Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
GARAGE ACCESS RAMP	+	2.9 fc	7.8 fc	0.0 fc	N/A	N/A
SITE	+	2.1 fc	7.5 fc	0.0 fc	N/A	N/A
SPILL LIGHT AT+6' ABOVE PROPERTY LINE	×	0.0 fc	0.4 fc	0.0 fc	N/A	N/A

Schedule									
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Lumens per Lamp	LLF	Efficiency
☉	S1	2	Selux Corporation	MST-R4-1-50S30-30-12--BZ-UNV-HS/ MSTA40-8-BZ-MSTBC13	Black formed cast aluminum housing, plastic optic, black plastic house side shields, no enclosure. Post Top mounted AT +10FT. TOP OF	48W LED 3000K	Absolute	1	100%
⚡	S2	4	SIGNIFY – STONCO	LPW16 30 WW-G3 3 UNV BZ. BRONZE FINISH.	WALL MOUNT LED LIGHT. +10' A.F.F.	30W LED 3000K	Absolute	1	100%
☉	S3	37	BEGA	84 107 K3 BRZ. BRONZE FINISH.	ASSYMETRIC LED BOLLARD LIGHT. +47" TALL.	19.4W LED 3000K 90 CRI	Absolute	1	100%
	W1		NOT USED						
	W1E		NOT USED						
▢	W2	3	WAC LIGHTING	WS-W15912 BZ BRONZE FINISH	WALL SCONCE ADA. SURFACE MOUNTED AT +6'-0" FROM TOP OF FIXTURE.	10W LED 3000K	341	1	99%
	W3		NOT USED						
	B0		NOT USED						
—	ST	6	HYDREL	HSL13 9INCH LED 30K MVOLT L 88 LBPS. LIGHT BRONZE FINISH.	11.50" LONG LED STEP LIGHT. +18" ⌀ A.F.F.	8W LED 3000K	299	1	99%



ELECTRICAL SITE PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"



REVISIONS

DRB SUBMITTAL

DATE: JANUARY 17, 2022 ORB # 19-220

E1.12

ELECTRICAL SITE PHOTOMETRIC PLAN



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Toll Brothers
America's Luxury Home Builder™

NP ENGINEERING INC.
4115 N. 15TH AVE
PHOENIX, AZ 85015
(602) 265-1559
PROJECT NO. 2021-001



**TOLL
MAZA**
7570 EAST 6TH AVE
SCOTTSDALE, AZ 85251

TYPE: ST

CATALOG NUMBER:
 NOTES:
 TYPE:

HSL13
Static White and Static Color Step Light 13

HIGHLIGHTS

- Integral Driver
- Long throw distribution
- Standard 0-10V dimming option
- Die-cast housing with solid aluminum, brass, or stainless steel faceplate
- Wet location listed
- Back Box provided by Hydrel or by others

Buy American

DIMENSIONS

12INCH

CROSS SECTION

6INCH

CROSS SECTION

3INCH

CROSS SECTION

LUMEN PACKAGES

Distribution	Delivered Lumens	Input Watts	Lumens/Watt
3INCH	87	3	29
6INCH	194	5	36
12INCH	386	11	37

Performance data based upon 30K LED

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 Phone: 800-705-SERV (7378) • www.hydrel.com

HSL13 | Rev. 04/23/21
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Wall mount
LytePro
LPW16 medium wall sconce

Project: **THE MILLER**
 Location: **SCOTTSDALE**
 Cat.No: **LPW-16-30-WW-G3-3-UNV**
 Type: **S2**
 Lamps: **LED** Qty:
 Notes:

Stonco LytePro LED medium wall sconce LPW16 features outstanding value in a compact, architectural design. This powerful and precise combination offers outstanding energy savings with excellent photometric performance. LPW16 is ideal for entryways and corridors in addition to wall lighting applications requiring strong lateral spacing and forward pattern projection.

Ordering guide

Prefix	Wattage	LED Color/Gen	Distribution	Voltage	Options	Photocontrol	Location	Finish
LPW16	20 20W 30 30W 50 50W	NW-G3 Neutral White 4000K 70 CRI Generation 3 WW-G3 Warm White 3000K 70 CRI Generation 3	2 Type 2 3 Type 3 4 Type 4	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V 120-277V (50/60Hz) 347-480V (50/60Hz)	--- None PCB Photocontrol Button ¹	BAC ² Meets the requirements of the Buy American Act of 1933 (BAA)	Meets the requirements of the Buy American Act of 1933 (BAA)	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (see OC-LSP or OC-RAL7024) CC Custom color (Must supply color chip for required factory quote)

Stocked luminaires - Ordering guide

Catalog Number	Description	Master Pack, Qty	UPC Code
LPW16-G3-B-BZ	LPW16, 30W, 650mA, 4000K, Type 3, 120-277V, Bronze textured paint	6	622252813872
LPW16-G3-B-DGY	LPW16, 30W, 650mA, 4000K, Type 3, 120-277V, Dark gray textured paint	6	622252813865

Stocked accessories - Ordering guide (Must be ordered separately)⁴

Catalog Number	Description	Master Pack, Qty	UPC Code
LPWCVRLT-BZ¹	LPW Universal wall cover mounting plate, Bronze textured paint	(none)	190096148660

¹ Must specify voltage. Not available in 347V or 480V.
² Other colors available upon request as made-to-order.
³ Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
⁴ Consult Signify to confirm whether specific accessories are BAA-compliant.

LPW16_LytePro_sconce 04/21 page 1 of 3

Site & Area
PureForm
PPT post top with comfort optics

Project: **THE MILLER**
 Location: **SCOTTSDALE**
 Cat.No: **PPT-140L-450-WW-G2-T3-1-UNV-DGY**
 Type: **S1**
 Lamps: **LED** Qty:
 Notes:

Gardco PureForm LED post top features a sleek, low profile design. Comfort optics are designed to enhance visual comfort by reducing glare. Type 1, 2, 3, and 5 optical distributions are available with lumen output up to 9000 lumens. A full range of control options provides additional energy savings. Optional integral emergency battery backup is available for path-of-egress illumination.

Ordering guide

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Emergency	Voltage
PPT	140L LEDs	450 450mA 650 650mA 1150 1150mA 1675 1675mA 2100 2100mA ^{1,2}	WW-G2 Warm White 5000K, 70 CRI Generation 2 NW-G2 Neutral White 4000K, 70 CRI Generation 2 CW-G2 Cool White 5000K, 70 CRI Generation 2 WW-G2 Warm White 3000K, 70 CRI Generation 2 BW-G2 Balanced White 3500K (85 CRI) Generation 2 ^{1,2} AM-G2 Amber Generation 2 ^{1,2}	T3 Mounts to a 3" x 4" Teton (standard) T2 Mounts to a 2.3" x 4" Teton (must be ordered and shipped as a separate accessory)	1 Comfort Type 1 2 Comfort Type 2 3 Comfort Type 3 5 Comfort Type 5	Leave blank for no battery EBPC Emergency battery pack cold weather ^{14,15} EBP Emergency battery pack ^{14,15}	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVV 347-480V (50/60Hz)

Options

Dimming controls	Motion sensing	Photo-sensing	Electrical/Shield	Finish
DD 0-10V External dimming (by others) ¹ FAWS Field Adjustable Wattage Selector ¹⁴ SW Interface module for Shiftrite ^{14,15} LLC Integral wireless module ^{14,15} BL Bi-level functionality ^{14,15} Dynaliner Automatic Profile Dimming ¹⁴ CS50 Security 50% Dimming 7 hours CM50 Median 50% Dimming 8 hours CS30 Security 30% Dimming 7 hours CM30 Median 30% Dimming 8 hours	IMR3 Integral with #3 lens ¹⁴	PCB Photocontrol Button ¹⁴ TLR01 Twist Lock Receptacle 5 Pin ^{14,15} TLR07 Twist Lock Receptacle 7 Pin ^{14,15} TLR07C Twist Lock Receptacle w/Photocontrol ^{14,15}	F1 Single (120, 277, 347VAC) ¹ F2 Double (208, 240, 480VAC) ¹ F3 Canadian Double Pole (208, 240, 480VAC) ¹ Surge Protection (NEMA standard) SP2 Increased 20A EHS External house side shield (factory installed)	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (see RAL7024) CC Custom color (Must supply color chip for required factory quote)

¹ 150, 1675, and 2100mA not available with emergency battery backup (EBP).
² 2100mA not available with emergency battery backup cold weather (EBPC).
³ Extended lead times apply. Contact factory for details.
⁴ Not available with other control options.
⁵ Not available with motion sensor.
⁶ Not available with photocontrol.
⁷ Not available in 347 or 480V.
⁸ Available only in 120 or 277V.
⁹ Must specify input voltage.
¹⁰ Dimming will not be connected to NEMA receptacle if ordering with other control options.
¹¹ Not available in 480V.
¹² Not available in 200mA.
¹³ Not available with DD and FAWS dimming control options.
¹⁴ Must specify a motion sensor item.
¹⁵ Cannot be combined with HVV and BL-IMR3.

PPT_PureForm_post_top 05/20 page 1 of 5

TOLL MAZA
 7570 EAST 6TH AVE
 SCOTTSDALE, AZ 85251

WorldHQ@ORBArch.com

PRELIMINARY NOT FOR CONSTRUCTION

Toll Brothers
 America's Luxury Home Builder®

TYPE: ST

HSL13 STEP LIGHT | 2

ORDERING INFORMATION

EXAMPLE: HSL13 3INCH LED 27K MVOLT L MINS BRB

Series*	Length*	Source*	Color Temperature*	Voltage*	Distribution*
HSL13 Step Light 13	3INCH 3" Nominal Length 6INCH 6" Nominal Length 9INCH 9" Nominal Length 12INCH 12" Nominal Length	LED	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	AMBPC Amber BLU Blue GRN Green RED Red CYN Cyan RDO Red-Orange	MVOLT Multi-Volt 120V thru 277V L Long Throw

Dimming **Optional**

OPTION	FINISH*
MINS Dimming Driver	BB Back Box Note: Includes BB if you need a back box, otherwise back box is by others. BRB Brushed Brass BSP Brushed Brass Paint BRSS Brushed Stainless Steel LBPS Light Bronze Paint Smooth PBR Polished Brass PSS Polished Stainless Steel SGB Semi Gloss Black SGW Semi Gloss White CF Custom Finish RA12TD Rail Paint Finishes

Note: RA12TD for pricing only, replace with applicable RAL color when ready to order. See the (RAL)COLORS for available options. It is recommended that Hydrel products only use textured paints.

Note: * is a required field

PERFORMANCE DATA

Expected Life: Static White LED: L70 @ 40,000 hours
 Static Color LED: L70 @ 40,000 hours

Lumen Multiplier Table for CCT

CCT	Multiplier
27K	0.963
30K	1.000
35K	1.218
40K	1.153
50K	1.208

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HSL13 | Rev. 04/23/21
 Page 2 of 4

WAC LIGHTING

Fixture Type: **W2**
 Catalog Number: **WS-W15912 BRONZE**
 Project:
 Location:

Archetype
 Outdoor Wall Sconce 3000K

Model & Size: WS-W15912 12" Color Temp & CRI: 3000K 90 Finish: BK Black Watt: 10W LED Lumens: 800 Delivered Lumens: 331 Title 24: Yes

Example: WS-W15912-BK

DESCRIPTION
 A low-profile, artful design adds a distinctive, sophisticated look in any outdoor application.

FEATURES
 • ACLED driverless technology
 • 5 year warranty

SPECIFICATIONS
 Color Temp: 3000K
 Input: 120 VAC, 50/60Hz
 CRI: 90
 Dimming: ELV: 100-10%
 Rated Life: 54000 Hours
 Standards: ETL, cETL, IP65, Title 24 JA8-2016 Compliant, Dark Sky Friendly, Wet Location Listed
 Construction: Aluminum hardware with etched glass diffuser

FINISHES

Black
LINE DRAWING

WS-W15912

© wacighting.com | Phone (800) 526-2588 | Fax (800) 526-2585 | Headquarters/Eastern Distribution Center 44 Harbor Park Drive Port Washington, NY 11050
 WAC Lighting reserves the right to modify the design of our products at any time as part of the company's continuous improvement program, January 2021

Surface washer bollard - Asymmetric

BEGA

Application
 Surface washer bollards for the uniform illumination of ground surfaces. The luminaire housing is adjustable, allowing the light distribution to be adapted to meet the requirements of the installation site.

Materials
 Luminaire housing constructed of aluminum alloy
 Matte safety glass
 High temperature silicone gasket
 Reflector made of pure anodized aluminum
 High temperature silicone gasket
 NRTL listed to North American Standards, suitable for wet locations
 Protection class IP65
 Weight: 15.4 lbs

Electrical
 Operating voltage: 120-277V AC
 Minimum start temperature: -30° C
 LED module wattage: 19.4 W
 System wattage: 24.0 W
 Controllability: 0-10V, TRIAC and ELV dimmable
 Color rendering index: Ra > 90
 Luminaire lumens: 2661 lumens (4000K)
 LED service life (L70): 60,000 hours

LED color temperature
☐ 4000K - Product number + **K4**
☐ 3500K - Product number + **K35**
☒ 3000K - Product number + **K3**
☐ 2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish
 All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Undure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.
 Available colors: ☐ Black (BLK) ☐ White (WHT) ☐ RAL: ☒ Bronze (BRZ) ☐ Silver (SLV) ☐ CUS:

Available options
☐ **70895** Direct burial anchorage

Surface washer bollard - Asymmetric

LED	A	B	C	Anchorage
64 107	19.4W	10%	47%	79817

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com
 Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2020 Updated: 10/30/20

REVISIONS

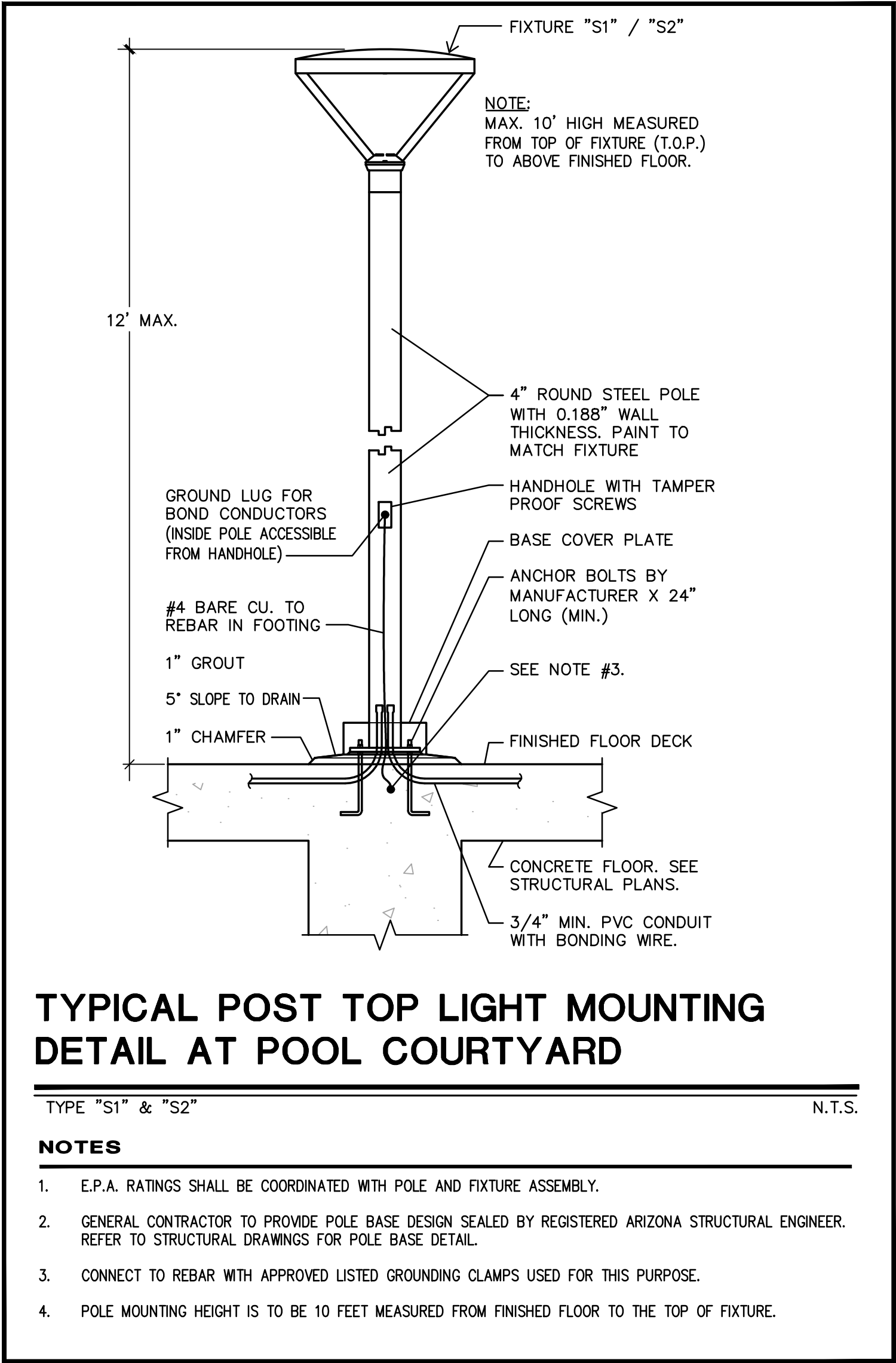
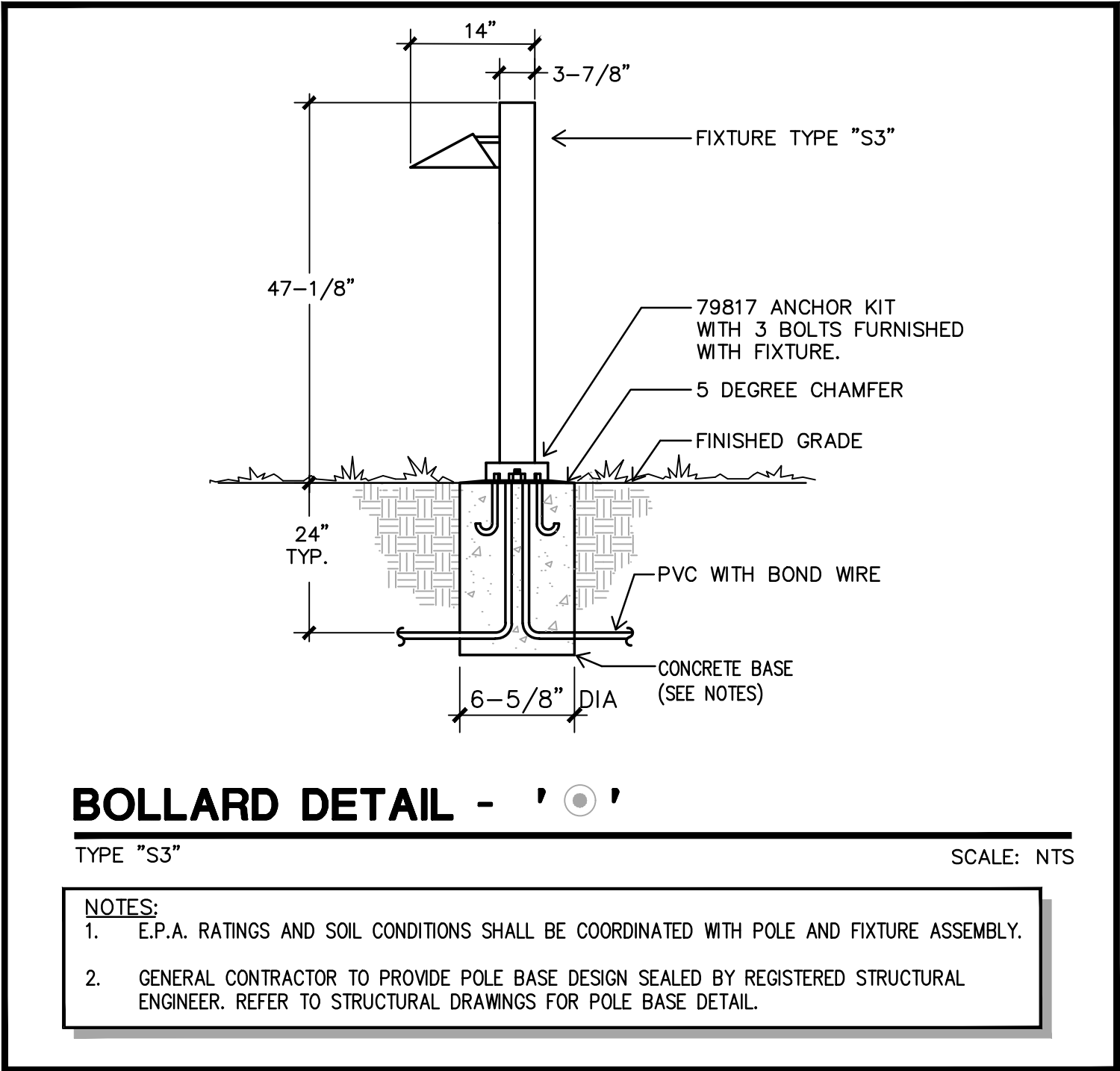
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ELECTRICAL SITE LIGHTING CUSTSHEETS

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SCOTTSDALE, AZ 85251

Office of Rich Barber
ORB
Architecture, LLC
WorldHQ@ORBArch.com

Professional Engineer (Electrical)
CERTIFICATE NO. 10807
ANDREW C. PANOPIO
PHOENIX, ARIZONA, U.S.A.
Exp. 12/31/2022

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America's Luxury Home Builder™

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ENGINEERING INC.
4115 N. 15TH AVE
PHOENIX, AZ 85015
(602) 265-1558
PROJECT NO. 2021-001

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ELECTRICAL SITE
LIGHTING DETAILS