

1 ELECTRICAL SITE DEVELOPMENT PLAN
1" = 50'-0"

GENERAL NOTES

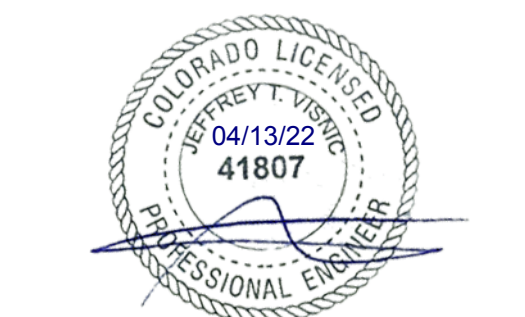
- PROJECT NAME/ADDRESS (ALSO SHOWN IN TITLE BLOCK): WIDEFIELD PARKS AND RECREATION FACILITY EXPANSION, 755 ASPEN DRIVE, COLORADO SPRINGS, COLORADO, 80911.
- REFER TO GESDCP PLAN COVER SHEET FOR VICINITY MAP.
- A PARTIAL SITE PLAN WITH PROPERTY BOUNDARY IS SHOWN TO MAINTAIN SCALE FOR NECESSARY LIGHTING INFORMATION SHOWN. REFER TO FINAL GRADING AND EROSION CONTROL PLAN CS 2 FOR COMPLETE SITE PLAN AND PROPERTY LINE AS NEEDED.
- THERE ARE NO NEW OR EXISTING RIGHT-OF-WAYS OR EASEMENTS FOR THIS PROJECT THAT REQUIRE LIGHTING.

L K A PART N E R S
I N C O R P O R A T E D
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BCER
ENGINEERING | TECHNOLOGY | LIFE SAFETY
BCER PROJECT 23527039

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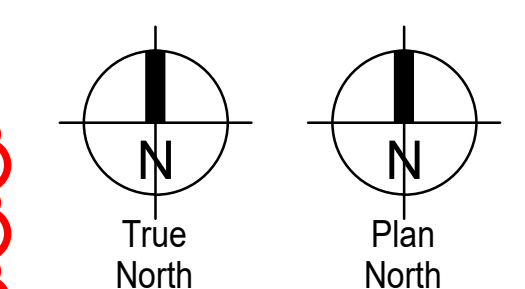
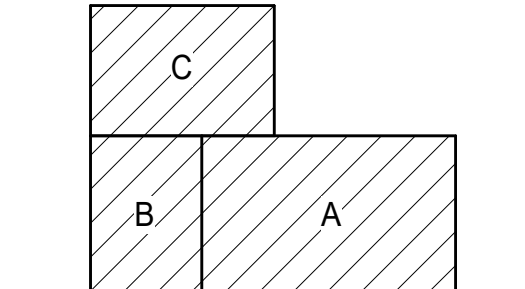
Widefield Parks and Recreation Facility Expansion
755 Aspen Drive, Colorado Springs, CO 80911
Widefield School District 3
1820 Main Street Colorado Springs, CO 80911



SITE DEVELOPMENT PLAN

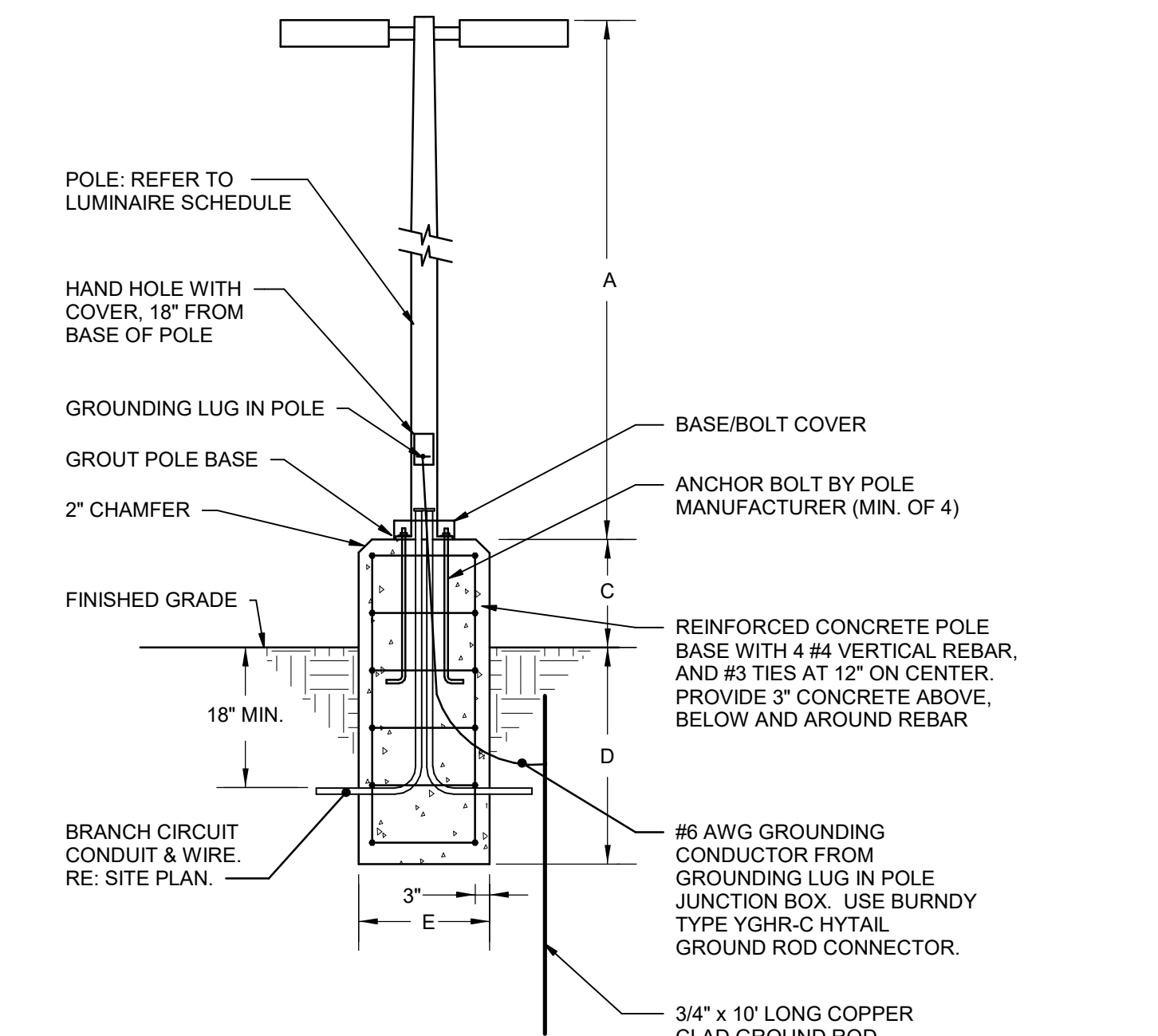
Drawn: _____ DGK
Checked: _____ JTV
Issued: _____ 24 February 2022
Revised: _____
C PLANNING REVISIONS 15 April 2022

Area Key Plan



ELECTRICAL SITE DEVELOPMENT PLAN

E1.0S
Project No. 21-004
The LKA Partners Incorporated



- NOTES:**
- POLE BASE DIMENSIONS ARE BASED ON POLE HEIGHT PER TABLE BELOW UNLESS OTHERWISE NOTED. THE ABOVE GROUND DIMENSION C SHALL BE 6\"/>

POLE HEIGHT	POLE DIMENSION TABLE			DIAMETER
	ABOVE GROUND	BELOW	BELOW	
A	C	D	E	
10'	2'-6"	4'-0"	2'-0"	
15'	2'-6"	5'-0"	2'-0"	
20'	2'-6"	7'-0"	2'-0"	
25'	2'-6"	8'-0"	3'-0"	
30'	2'-6"	9'-0"	3'-0"	
35'	2'-6"	9'-0"	3'-0"	

2 POLE FIXTURE MOUNTING DETAIL
NOT TO SCALE

KEY	SOURCE				POWER				DESCRIPTION	FINISH	MOUNTING			MANUFACTURER	CATALOG #	NOTES
	TYPE	CRI	CCT	DELIVERED LUMENS	VOLT	VA	DRIVER/BALLAST	DIMMING			TYPE	DEPTH	MOUNT HEIGHT			
DW	LED	80	4000	1624	277 V	19	0-10V	1%	6" SQUARE DOWNLIGHT (WET LISTED COVERED CEILING)	TBD BY ARCH	RECESSED	7.96"		PRESCOLITE	HOUSING: LTR-6SQD-H-SL15L-DM1 TRIM: LTR-6SQD-T-SL40K8MD-SS-XX-XX	(13)
AA1	LED	70	4000	15605	277 V	110	0-10V	10%	17'-06" POLE MOUNTED SINGLE LED LUMINAIRE, TYPE 3 DISTRIBUTION, INTEGRAL OCCUPANCY SENSOR, DIA-CAST ALUMINUM, CORROSION RESISTANT HOUSING. SQUARE STRAIGHT STEEL POLE. POLE MOUNTED ON CONCRETE POLE BASE EXTENDING 2'-06" ABOVE FINISHED GRADE FOR OVERALL LUMINAIRE HEIGHT OF 20'-00"	BLACK MATTE TEXTURED	POLE	3.75"	20'-00"	HUBBELL	LUMINAIRE: ASL1-160L-115-4K7-3-UNV-ASQU-NXSPW30F-BLT POLE: SSS-H(17'-6")-40-A-1-_-BLT	(11)
AA1F	LED	70	4000	15605	277 V	110	0-10V	10%	18'-06" POLE MOUNTED SINGLE LED LUMINAIRE, TYPE 3 DISTRIBUTION, INTEGRAL OCCUPANCY SENSOR, DIA-CAST ALUMINUM, CORROSION RESISTANT HOUSING. SQUARE STRAIGHT STEEL POLE. POLE MOUNTED ON CONCRETE POLE BASE EXTENDING 0'-06" ABOVE FINISHED GRADE FOR OVERALL LUMINAIRE HEIGHT OF 20'-00"	BLACK MATTE TEXTURED	POLE	3.75"	20'-00"	HUBBELL	LUMINAIRE: ASL1-160L-115-4K7-3-UNV-ASQU-NXSPW30F-BLT POLE: SSS-H(19'-6")-40-A-1-_-BLT	(11)
AA1S	LED	70	4000	15605	277 V	110	0-10V	10%	14'-06" POLE MOUNTED SINGLE LED LUMINAIRE, TYPE 3 DISTRIBUTION, INTEGRAL OCCUPANCY SENSOR, DIA-CAST ALUMINUM, CORROSION RESISTANT HOUSING. SQUARE STRAIGHT STEEL POLE. POLE MOUNTED ON CONCRETE POLE BASE EXTENDING 0'-06" ABOVE FINISHED GRADE FOR OVERALL LUMINAIRE HEIGHT OF 15'-00"	BLACK MATTE TEXTURED	POLE	3.75"	15'-00"	HUBBELL	LUMINAIRE: ASL1-160L-115-4K7-3-UNV-ASQU-NXSPW30F-BLT POLE: SSS-H(14'-6")-40-A-1-_-BLT	(11)
AA2	LED	70	4000	31210	277 V	220	0-10V	10%	17'-06" POLE MOUNTED DOUBLE LED LUMINAIRE, TYPE 3 DISTRIBUTION, INTEGRAL OCCUPANCY SENSOR, DIA-CAST ALUMINUM, CORROSION RESISTANT HOUSING. SQUARE STRAIGHT STEEL POLE. POLE MOUNTED ON CONCRETE POLE BASE EXTENDING 2'-06" ABOVE FINISHED GRADE FOR OVERALL LUMINAIRE HEIGHT OF 20'-00"	BLACK MATTE TEXTURED	POLE	3.75"	20'-00"	HUBBELL	LUMINAIRE: (2) ASL1-160L-115-4K7-3-UNV-ASQU-NXSPW30F-BLT POLE: SSS-H(17'-6")-40-A-2-_-BLT	(11)
AAW	LED	70	4000	15605	277 V	110	0-10V	10%	WALL MOUNT SINGLE LED LUMINAIRE, TYPE 4 WIDE DISTRIBUTION, INTEGRAL OCCUPANCY SENSOR, DIA-CAST ALUMINUM, CORROSION RESISTANT HOUSING. SQUARE STRAIGHT STEEL POLE. POLE MOUNTED ON CONCRETE POLE BASE EXTENDING 2'-06" ABOVE FINISHED GRADE FOR OVERALL LUMINAIRE HEIGHT OF 20'-00"	BLACK MATTE TEXTURED	WALL	3.75"	20'-00"	HUBBELL	LUMINAIRE: ASL1-160L-115-4K7-4-UNV-ASQU-NXSPW30F-BLT WALL BRACKET: WB-AREA-BLT	(11)
WDE	LED	70	4000	3213	277 V	23	0-10V	10%	WALLPACK (SMALL FOOTPRINT), TYP 4 WIDE DISTRIBUTION, INTEGRAL OCCUPANCY SENSOR, EMERGENCY (COLD WEATHER BATTERY PACK)	BLACK MATTE TEXTURED	WALL	9"	10'-00"	HUBBELL	RWL1-48L-25-4K7-4-UNV-BLT-NXSPW14F-EH	(8)(11)
WHE	LED	70	4000	6336	277 V	55	0-10V	10%	WALLPACK FORWARD TYPE IV OPTICS, INTEGRAL OCCUPANCY SENSOR, EMERGENCY (COLD WEATHER BATTERY PACK)	BLACK MATTE TEXTURED	WALL	7.25"	10'-00"	BEACON	TRV-D-24L-55-4K7-4F-UNV-SWPM-MOB-BPC-BLT	(8)(11)

LUMINAIRE SCHEDULE GENERAL NOTES
H. DAYLIGHT CONTROL: EXTERIOR LIGHTING SHALL AUTOMATICALLY TURN ON AT DUSK AND OFF AT DAWN.

LUMINAIRE SCHEDULE PROJECT SPECIFIC NOTES
(8) INTEGRAL 90 MINUTE MINIMUM EMERGENCY BATTERY PACK.
(11) INTEGRAL OCCUPANCY SENSOR SHALL AUTOMATICALLY REDUCE TOTAL WATTAGE OF LUMINAIRE BY 50 PERCENT ANY TIME ACTIVITY HAS NOT BEEN DETECTED FOR 15 MINUTES OR MORE.
(13) DIMMED TO REDUCE TOTAL WATTAGE BY 50 PERCENT BETWEEN MIDNIGHT AND 6 AM.

OWNER/APPLICANT:
WIDEFIELD SCHOOL DISTRICT 3
445 JERSEY LANE
COLORADO SPRINGS, CO 80911
CONTACT: DAVE GISH, GISHID@WSD3.ORG


BCER CONTACT LIST

DENVER AND COLORADO SPRINGS OFFICES 5420 WARD ROAD, SUITE 200 ARVADA, CO 80002 303.422.7400	TAMPA BAY AND MELBOURNE OFFICES 6555 N. WICKHAM ROAD, SUITE 104 MELBOURNE, FL 32940 321.241.4142
PROJECT ENGINEER / DESIGNER DAVE KAMBICH 303.638.6423 DKAMBICH@BCER.COM	PROJECT MANAGER CHRIS WREN 719.640.9821 CWREN@BCER.COM

prescolite
LTR-6SQD
 LITEISTRY 6" SQUARE DOWNLIGHT

DATE: _____ LOCATION: _____
 TYPE: **DRW** PROJECT: _____
 CATALOG # _____

LITEISTRY



RELATED PRODUCTS

- # LTR-6SQD SpectraSync
- # LTR-6SQD PowerHub
- # LITEISTRY Family

SERVICE PROGRAMS

- STOCK
- QS

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

- Standard finish: Chicago Plenum and C options
- New Construction: Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connectors use aluminum rated (CMF) cable
- Visually pleasing 5/8" cutoff to source and source image
- The light distribution is free of distracting bright spots or gradients and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity four-panel aluminum reflector, self-fanged
- Flush Mount flange option with mud-ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- Chip-on-board (COB) LED with 2500M
- Multiple CCT, 80+ or 90+ CRI
- Long LED life: L90 at 155,000 hours (TM 2)

ELECTRICAL CONTINUED

- Universal dimmer: 0-10V/277V dimmer, 347V optional
- Class 2, inherent short circuit and overload protection, NEMA compliant
- Flicker free 0-10V dimming with 7% or 1% performance
- DALI, DMX, and Lutron Forward Phase and Ecosystem options
- NK or Lutron Vive control option available
- Integral and remote emergency controller and battery pack options available
- Refer to additional spec sheets for information on SpectraSync™, Tunable White or Dim-to-Warm or [PowerHub™](#) [Full product solutions](#)

INSTALLATION

- Accommodates ceiling thicknesses up to 125"
- Universal adjustable mounting brackets also accept 1/2" DMF conduit or 1/2" or 1/4" tubing channel by other or Prescolite accessory bar hangers (B24 or B8)
- Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- UL E185 certified to UL E185
- For 270L Marked spacing required 36" future center to center; 30" future center to lighting member; 0.5" above future

CERTIFICATIONS CONTINUED

- UL Listed for wall applications, covered ceiling, EMER, Suitable for damp locations.
- Approved for 8 ft (4 in) cut No. 20 AWG conductors rated for 90°C wiring
- EMER: Certified under UL 924 standard for emergency lighting and power equipment
- ENERGY STAR™ certified models available. (See list and additional information on page 1)
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/6/2020. See [Buy American Solutions](#)

WARRANTY

- 5-year warranty
- See [1-811 Standard Warranty](#) for additional information

KEY DATA

Lumen Range	600–9000
Wattage Range	8–99
Efficacy Range (LPW)	87–99*
Life (Hours)	150 / 55,000*
Input Current (mA)	67-825 (220V)

* Based on Specular, 35K, 80 CRI

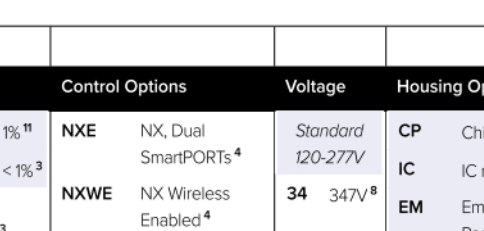
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HUBBELL Lighting

prescolite
LTR-6SQD
 LITEISTRY 6" SQUARE DOWNLIGHT

DATE: _____ LOCATION: _____
 TYPE: **DRW** PROJECT: _____
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- Multiple CCT, 80+ or 90+ CRI
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KEY DATA

Lumen Range	600–9000
Wattage Range	8–99
Efficacy Range (LPW)	87–99*
Life (Hours)	150 / 55,000*
Input Current (mA)	67-825 (220V)

* Based on Specular, 35K, 80 CRI

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HUBBELL Lighting


HUBBELL Outdoor Lighting

AIRO Micro Strike
 AREA/SITE/ROAD LIGHTER

DATE: _____ LOCATION: _____
 TYPE: **DRW** PROJECT: _____
 CATALOG # _____

FEATURES

- Compact sleek design with multiple LED configurations and simple installation
- The Airo includes a universal mounting block for easy pole installation or mast arm option for 2-3/8" OD roadway brackets
- Capable of replacing up to 1000W HID luminaires
- Micro Strike optical distributions of Type 2, 3, 4W or SOW
- Tool-less entry option for easy installation and maintenance
- LSO rated for high vibration applications including bridges and overpasses



RELATED PRODUCTS

- # BAF2-Ratio
- # BAF2-Ratio
- # Canscon LED

CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Separate optical and electrical compartment for improved thermal management and optional component operation
- TPC thermostat polyester powder paint finish applied at nominal 2.5 mil thickness
- Premium engineered individual acrylic lenses deliver IES Type 2, 3, 4W and SOW distributions
- Lens distributions are field rotatable (in 90° increments) or interchangeable for job site fine-tuning
- 3000K, 4000K, or 5000K (70 CR) CCT
- 80, 160, or 320 mcd power LEDs
- 3000K, 4000K or 5000K (70 CR) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Tool-less entry to wiring/driver compartment optional
- Universal mounting block works with #2 drill pattern
- Flange strips with slotted mounting block to accommodate wide range of drill patterns for easy retrofit opportunities
- Mast arm flange accessory or option available for 2-3/8" OD brackets with vertical tilt of +3°, 0° or -3°

ELECTRICAL

- Universal 120-277 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 20kA and 10kV protection meeting ANSI/IEEE C82.41.2 Category C, High and Surge Location Category C2. Automatically takes in-line for protection when device is consumed

CONTROLS (CONTINUED)

- w5CAPE™ available with inductive wireless control module, features dimming and occupancy sensor via 7-pin
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application

CERTIFICATIONS

- Listed to UL E185 and CSA C22.2/250.0-24 for wet locations and AIC ambient temperature
- DLC (DesignLights Consortium) Qualified with some Premium Qualified configurations. Please refer to the DLC website for specification qualifications at [www.designlights.org](#)
- 1.5% rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- Meets DA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See [Buy American Solutions](#)

WARRANTY

- 5-year warranty
- See [1-811 Standard Warranty](#) for additional information

KEY DATA

Lumen Range	2,200–36,000
Wattage Range	25–255
Efficacy Range (LPW)	118–148
Weight (lbs. (kg))	14.5–175 (6.6–8.0)

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HUBBELL Lighting

HUBBELL Outdoor Lighting

AIRO Micro Strike
 AREA/SITE/ROAD LIGHTER

DATE: _____ LOCATION: _____
 TYPE: **DRW** PROJECT: _____
 CATALOG # _____

ORDERING GUIDE

Example: ASL1-B0L-50-3K7-2-UNV-ASQU-BLT-7PR80-40P

ORDERING INFORMATION

Series	# LEDs	CCT/CRI	Distribution	Rotation/Orientation	Voltage	Mounting
ASL1 ASL Microstrike Series	80L/28 3,000 m 80L/39 4,500 m 80L/50 6,000 m 80L/70 9,000 m 80L/100 15,000 m 80L/115 18,000 m 80L/135 18,000 m	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	2 Type 1 3 Type 8 4W Type 4W SOW Type SOW	L Optic rotation left R Optic rotation right	UNV Universal 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	ASQU Arm Square w/ Universal Mount A3 AS with 3.5" x 1.5" OD FR&L LUM A4 AS with 4.85" x 2" OD FR&L U A5 AS with 5.65" x 1" OD FR&L LUM MAP Mast Arm Filter for 2-3/8" OD
ASL2 ASL Microstrike Series	320L/145 21,000 m 320L/170 24,000 m 320L/185 27,000 m 320L/210 30,000 m 320L/235 33,000 m 320L/255 35,000 m					

Control Options Network

- SWP# SpectraSync pre-commissioned
- SWP# SpectraSync wireless pre-commissioned w/ motion detection
- NXPWV# NK Wireless, PR Occupancy Sensor, Dimming Daylight Harvesting, M Just white for WH, back for DB, GT, TT, gray for GS, PS
- NXPWV# NK Wireless, PR Occupancy Sensor, Dimming Daylight Harvesting, 30 Just white for WH, back for DB, GT, TT, gray for GS, PS
- NXPWV# NK, PR Occupancy Sensor, Dimming Daylight Harvesting, M Just white for WH, back for DB, GT, TT, gray for GS, PS
- NXPWV# NK, PR Occupancy Sensor, Dimming Daylight Harvesting, 30 Just white for WH, back for DB, GT, TT, gray for GS, PS

Color

- BLT Black Matte Textured
- BLS Black Gloss Smooth
- DBT Dark Bronze Matte Textured
- DNS Dark Bronze Gloss Smooth
- GTT Graphite Matte Textured
- LSG Light Gray Gloss Smooth
- LET Light Gray Matte Textured
- PSB Platinum Gloss Smooth
- WHM White Matte Textured
- WHS White Gloss Smooth
- VST Venetian Gloss Textured

Color Option

- CC Custom Color

Notes:

- Not compatible with B0L configurations
- Not compatible with 480V configurations
- Mast arm voltage
- Not available with a combination of 307/480 and fusing
- Mast arm voltage: 0V or 270V only
- Order at least one SPC-30MCTE per project location to program and control the occupancy sensor
- Replace "L" with "R" for up to 14' mounting height, "NAP" for 15-42' mounting height
- Replace "L" with "R" for up to 12' mounting height

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HUBBELL Lighting

prescolite
LTR-6SQD
 LITEISTRY 6" SQUARE DOWNLIGHT

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LITEISTRY



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NX DISTRIBUTED INTELLIGENCE

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HUBBELL Lighting

HUBBELL Outdoor Lighting

AIRO Micro Strike
 AREA/SITE/ROAD LIGHTER

DATE: _____ LOCATION: _____
 TYPE: **DRW** PROJECT: _____
 CATALOG # _____

ORDERING GUIDE

Example: ASL1-B0L-50-3K7-2-UNV-ASQU-BLT-7PR80-40P

ORDERING INFORMATION

Series	# LEDs	CCT/CRI	Distribution	Rotation/Orientation	Voltage	Mounting
ASL1 ASL Microstrike Series	80L/28 3,000 m 80L/39 4,500 m 80L/50 6,000 m 80L/70 9,000 m 80L/100 15,000 m 80L/115 18,000 m 80L/135 18,000 m	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	2 Type 1 3 Type 8 4W Type 4W SOW Type SOW	L Optic rotation left R Optic rotation right	UNV Universal 120-277V 120 120V 208 208V 240 240V 277 277V 347 347V 480 480V	ASQU Arm Square w/ Universal Mount A3 AS with 3.5" x 1.5" OD FR&L LUM A4 AS with 4.85" x 2" OD FR&L U A5 AS with 5.65" x 1" OD FR&L LUM MAP Mast Arm Filter for 2-3/8" OD
ASL2 ASL Microstrike Series	320L/145 21,000 m 320L/170 24,000 m 320L/185 27,000 m 320L/210 30,000 m 320L/235 33,000 m 320L/255 35,000 m					

Control Options Network

- SWP# SpectraSync pre-commissioned
- SWP# SpectraSync wireless pre-commissioned w/ motion detection
- NXPWV# NK Wireless, PR Occupancy Sensor, Dimming Daylight Harvesting, M Just white for WH, back for DB, GT, TT, gray for GS, PS
- NXPWV# NK Wireless, PR Occupancy Sensor, Dimming Daylight Harvesting, 30 Just white for WH, back for DB, GT, TT, gray for GS, PS
- NXPWV# NK, PR Occupancy Sensor, Dimming Daylight Harvesting, M Just white for WH, back for DB, GT, TT, gray for GS, PS
- NXPWV# NK, PR Occupancy Sensor, Dimming Daylight Harvesting, 30 Just white for WH, back for DB, GT, TT, gray for GS, PS

Color

- BLT Black Matte Textured
- BLS Black Gloss Smooth
- DBT Dark Bronze Matte Textured
- DNS Dark Bronze Gloss Smooth
- GTT Graphite Matte Textured
- LSG Light Gray Gloss Smooth
- LET Light Gray Matte Textured
- PSB Platinum Gloss Smooth
- WHM White Matte Textured
- WHS White Gloss Smooth
- VST Venetian Gloss Textured

Color Option

- CC Custom Color

Notes:

- When ordering SpectraSync at least one of two interface options must be ordered per project
- Available as a SpectraSync retrofit option for houses with an existing 0-pin receptacle

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HUBBELL Lighting

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Widefield Parks and Recreation Facility Expansion
 755 Aspen Drive, Colorado Springs, CO 80911

Widefield School District 3
 1620 Main Street Colorado Springs, CO 80911

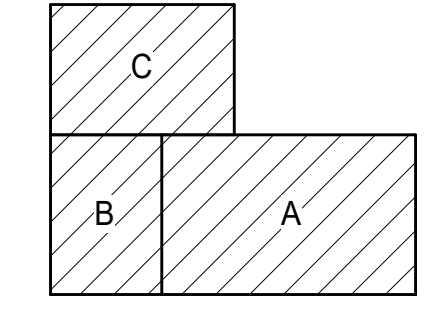
WIDEFIELD SCHOOL DISTRICT 3
 PRIDE. TRADITION. INNOVATION.

PROFESSIONAL ENGINEER
 STATE OF COLORADO
 LICENSE NO. 41807

SITE DEVELOPMENT PLAN

Drawn: _____ DGK
 Checked: _____ JTV
 Issued: 24 February 2022
 Revised: C PLANNING REVISIONS 15 April 2022

Area Key Plan



ELECTRICAL SITE DEVELOPMENT PLAN CUT SHEETS

True North | Plan North

E1.2S
 Project No. 21-004
 The LKA Partners Incorporated