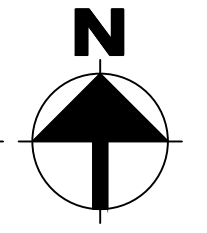


**ELECTRICAL SITE LIGHTING PLAN**

SCALE: 1" = 40'-0"



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 LES THAN 35% DURING POST-CURFEW TO COMPLY WITH IECC 2018 C405.2.6. 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:  
 SRP  
 Representative:  
 SRP BUSINESS CENTER  
 Telephone #:  
 (602) 236-8833

**PRIOR TO ANY GROUND EXCAVATION CALL BLUE STAKE**  
 (602) 263-1100  
 (800) 782-5348

**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 CRI/CCT INPUT WATTS	REMARKS/MOUNTING
SA	Lithonia Lighting WDE2-LED-P4-40K 80CRI-VW-E4WH	MVOLT	LED 80/4000K 10W	WALL MOUNTED LED AREA LIGHT. PROVIDE WITH 90 MINUTE BATTERY BACKUP WHERE NOTED 'EM'. OVER DOOR MOUNT AT 10'
SB	Lithonia Lighting WDE3-LED-P4 70CRI-RFT-30K	MVOLT	LED 70/3000K 88W	WALL MOUNTED LED AREA LIGHT. WALL MOUNT AT 25' TO MATCH EXISTING BUILDING.

**DESIGN CODES**  
 IECC, 2018    NEC, 2017

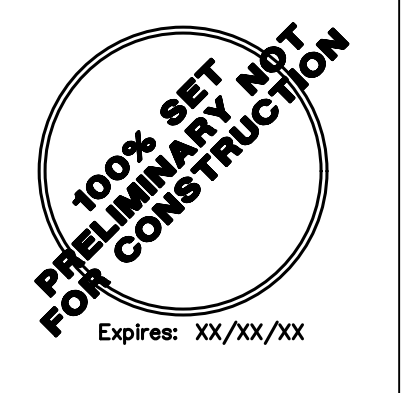
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**PRELIMINARY NOT FOR CONSTRUCTION**

Project Contact/Designer: **Chad Curry**  
 Project # 23494  
**HAWKINS DESIGN GROUP INC.**  
 ELECTRICAL CONSULTING ENGINEERS  
 140 WEST HARVELL ROAD  
 GILBERT, ARIZONA 85233  
 Ph. 480.813.9000    Fax: 480.813.9001  
 EMAIL: [chad@hawkinsdg.com](mailto:chad@hawkinsdg.com)

IF DRAWING IS NOT PLOTTED AT 24 X 36 THEY ARE NOT FULL SIZE

**WARE MALCOMB**  
 CIVIL ENGINEERING  
 BRANDING  
 BUILDING MEASUREMENT  
 ARCHITECTURE  
 PLANNING  
 INTERIORS  
 2777 E. Camelback Rd. Suite #325  
 Phoenix, AZ 85016  
 P. 480.767.1001



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 MESA, ARIZONA, 85212

**ELECTRICAL SITE LIGHTING PLAN**

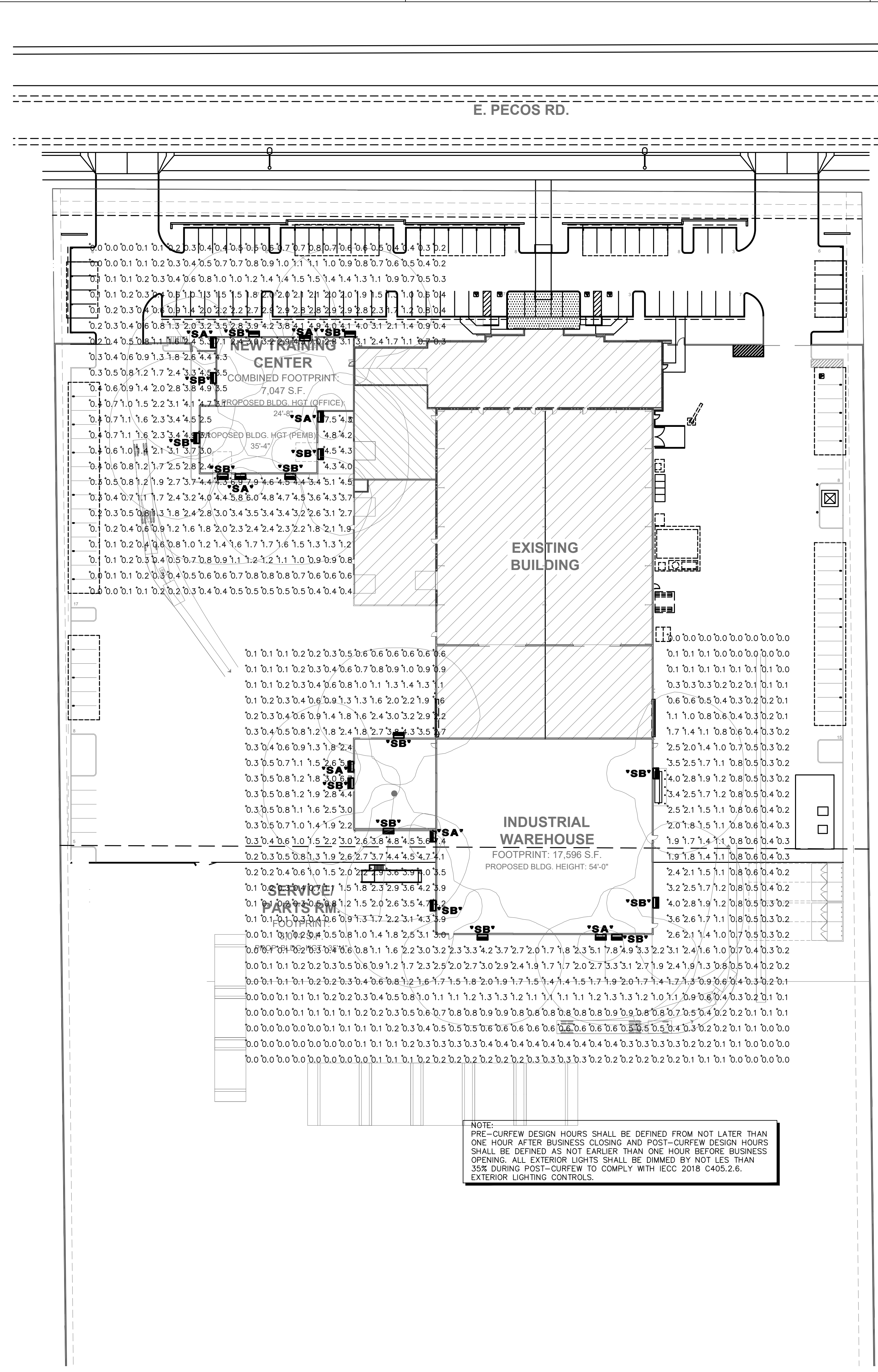
DATE	REMARKS
12/22/2023	PRE-SUBMITTAL
02/19/2024	P&Z SUBMITTAL
02/22/2024	DR SUBMITTAL
05/06/2024	DR AND P&Z SUBMITTAL
06/03/2024	DR AND P&Z 2ND SUBMITTAL

PA/PM: AG/CRC  
 DRAWN BY: CRC  
 JOB NO.: IRV00-0000-00

SHEET  
**DR1.0**

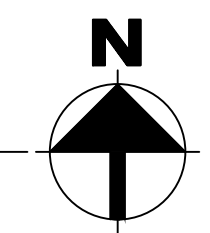
Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
SA	SA	7	LITHONIA	WDGE1 LED P1 40K 80CRI VW E4WH / OVER DOOR MOUNT AT 10'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC. INTEGRAL BATTERY BACKUP	1	1229	0.91	10.0002
SB	SB	15	LITHONIA	WDGE3 LED P4 70CRI RFT 30K / WALL MOUNT AT 25' TO MATCH EXISTING BUILDING	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 4000K, 70CRI, FORWARD THROW OPTIC	1	12277	0.91	87.8914

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC ON SITE AT GRADE	+	1.3 fc	7.9 fc	0.0 fc	N/A	N/A



**PRE-CURFEW PHOTOMETRICS**

SCALE: 1" = 40'-0"



NOTE:  
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PRE-CURFEW PHOTOMETRICS	
DATE	REMARKS
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02/22/2024	DR SUBMITTAL
05/06/2024	DR AND P&Z SUBMITTAL
06/03/2024	DR AND P&Z 2ND SUBMITTAL

PA/PM:	AG/CRC
DRAWN BY.:	CRC
JOB NO.:	IRV00-0000-00

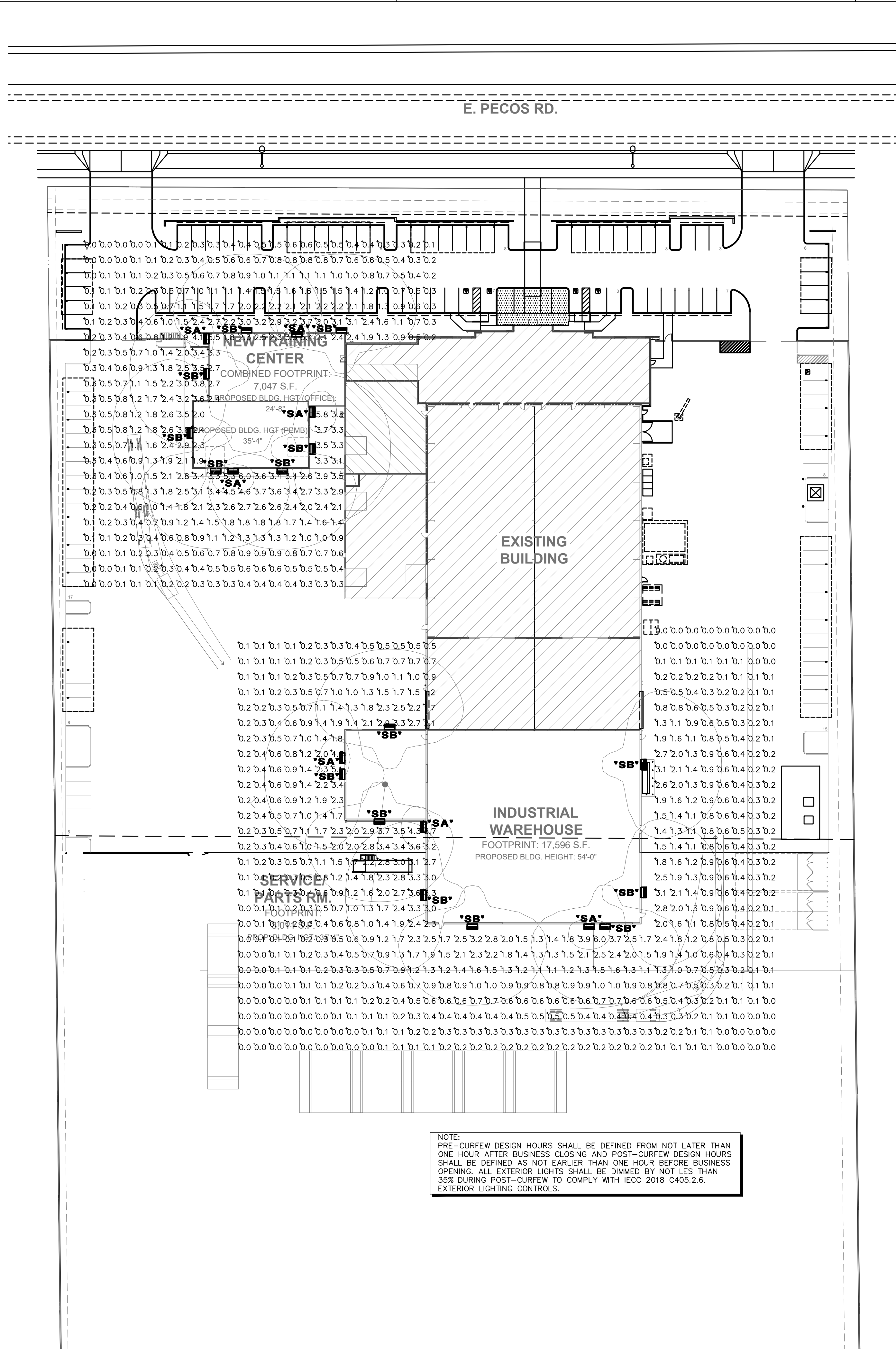
SHEET  
**DR2.0**

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 Phoenix, AZ 85016  
 P. 480.767.1001

**100% SET FOR CONSTRUCTION**  
 Preliminary Not for Construction  
 Expires: XX/XX/XX

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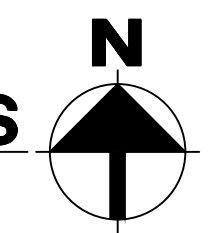


Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
SA	SA	7	LITHONIA	WDGE1 LED P1 40K 80CRI VW E4WH / OVER DOOR MOUNT AT 10'	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC. INTEGRAL BATTERY BACKUP	1	1229	0.7	10.0002
SB	SB	15	LITHONIA	WDGE3 LED P4 70CRI RFT 30K / WALL MOUNT AT 25' TO MATCH EXISTING BUILDING	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 4000K, 70CRI, FORWARD THROW OPTIC	1	12277	0.7	87.8914

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FC ON SITE AT GRADE	+	1.0 fc	6.0 fc	0.0 fc	N/A	N/A

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**POST-CURFEW PHOTOMETRICS**  
 SCALE: 1" = 40'-0"



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 Phoenix, AZ 85016  
 P 480.761.1001

**100% SET FOR CONSTRUCTION**  
 Expires: XX/XX/XX

**METSO**  
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 MESA, ARIZONA, 85212

POST-CURFEW PHOTOMETRICS	
DATE	REMARKS
12/22/2023	PRESUBMITTAL
02/19/2024	P&Z SUBMITTAL
02/22/2024	DR SUBMITTAL
05/06/2024	DR AND P&Z SUBMITTAL
06/03/2024	DR AND P&Z 2ND SUBMITTAL

PA/PM:	AG/CRC
DRAWN BY.:	CRC
JOB NO.:	IRV00-0000-00

SHEET  
**DR3.0**

**DESIGN CODES**  
 IECC, 2018    NEC, 2017

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### WDGE3 LED Architectural Wall Sconce



**Specifications**  
 Depth (D1): 8"  
 Depth (D2): 1.5"  
 Height: 9"  
 Width: 18"  
 Weight: 19.5 lbs (without options)

**WDGE LED Family Overview**

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	—	—	1,200	2,000	—	—	—	—
WDGE2 LED	10W	18W	Standalone / no light	—	1,200	2,000	3,000	4,500	6,000
WDGE3 LED	15W	18W	Standalone / no light	6,000	7,500	8,500	10,000	12,000	—
WDGE4 LED	—	—	—	12,000	14,000	16,000	18,000	20,000	25,000

**Ordering Information** **EXAMPLE: WDGE3 LED P3 40K 70CRI R3 MVOLT SRM DDBXD**

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE3 LED	P1	30K 3000K	70CRI	R2 Type 2	MVOLT	SRM
	P2	40K 4000K	80CRI	R3 Type 3	347V	SRM
	P3	50K 5000K	80CRI	R4 Type 4	480V	SRM
	P4	—	—	RFT Forward Throw	—	SRM

**Accessories**

Options	Stand-alone Sensors/Controls	Finish
E15WH Emergency battery backup, Certified in CA Title 20 MAERS (15W, 5°C min)	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights. Intended for use on switched circuits with external dusk-to-dawn switching.	DDBDZ Dark bronze
E20WC Emergency battery backup, Certified in CA Title 20 MAERS (18W, -20°C min)	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights. Intended for use on switched circuits with external dusk-to-dawn switching.	DDBLD Black
PE Photocell, Button Type	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBAD Natural aluminum
DWG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBWD White
BCE Bottom conduct entry for back box (PBW), Total of 4 entry points.	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBSD Sandstone
SPD10V 10V Surge pack	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBTD Textured dark bronze
BAA Buy America(s) Act Compliant	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBTD Textured dark bronze

**Notes:**  
 1. 347V and 480V not available with E15WH and E20WC.  
 2. Not qualified for DLC. Not available with emergency battery backup or sensors/controls.  
 3. PE not available in 480V and with sensors/controls.  
 4. Available with MVOLT only and only rated to 25C ambient.  
 5. Not available with E20WC option.

### Performance Data

**Lumen Output**  
 Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System/Notes	Unit Type	SRM (4000K, 70 CRI)	SRM (5000K, 70 CRI)
P0	41W	R2	6,172 151 1 0 1	6,104 149 2 0 1
		R3	6,071 148 1 0 2	6,004 146 1 0 2
		R4	6,256 153 1 0 2	6,187 151 1 0 2
		RFT	6,126 149 1 0 2	6,058 148 1 0 2
P1	52W	R2	7,837 186 1 0 1	7,649 148 2 0 1
		R3	6,922 154 1 0 2	7,524 145 1 0 2
		R4	7,133 158 1 0 2	7,753 156 1 0 2
		RFT	6,985 155 1 0 2	7,592 147 1 0 2
P2	59W	R2	7,568 182 2 0 1	8,661 147 2 0 1
		R3	7,838 183 1 0 2	8,519 144 1 0 2
		R4	8,077 187 1 0 2	8,779 149 1 0 2
		RFT	7,909 184 1 0 2	8,597 146 2 0 2
P3	71W	R2	9,404 182 2 0 1	10,223 143 2 0 1
		R3	9,250 180 2 0 2	10,054 141 2 0 2
		R4	9,532 184 2 0 2	10,361 145 2 0 2
		RFT	9,334 181 2 0 2	10,146 142 2 0 2
P4	88W	R2	11,380 129 2 0 1	12,369 140 2 0 1
		R3	11,194 127 2 0 2	12,167 138 2 0 2
		R4	11,535 131 2 0 2	12,538 142 2 0 2
		RFT	11,295 128 2 0 2	12,277 139 2 0 2

**Lumen Output in Emergency Mode (4000K, 70 CRI)**

Option	Unit Type	Lumens
E15WH	R2	3,185
	R3	3,133
	R4	3,229
	RFT	3,162
E20WC	R2	3,669
	R3	3,609
	R4	3,719
	RFT	3,642

**Electrical Load**

Performance Package	System/Notes	120V	208V	240V	277V	347V	480V
P1	52W	0.437	0.246	0.213	0.186	0.150	0.110
	59W	0.498	0.287	0.251	0.220	0.175	0.126
	71W	0.598	0.344	0.300	0.262	0.210	0.152
P4	88W	0.727	0.424	0.373	0.333	0.260	0.190

**Lumen Multiplier for 80CRI**

CRI	Multiplier
30K	0.891
40K	0.906
50K	0.906

**Lumen Ambient Temperature (LAT) Multipliers**


Ambient	Multiplier
0°C	1.05
10°C	1.03
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.97

**Projected LED Lumen Maintenance**

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.98	>0.97	>0.92

**LITHONIA LIGHTING** COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com WDGE3 LED Rev. 11/16/23

### WDGE1 LED Architectural Wall Sconce



**Specifications**  
 Depth (D1): 5.5"  
 Depth (D2): 1.5"  
 Height: 8"  
 Width: 9"  
 Weight: 9 lbs (without options)

**WDGE LED Family Overview**

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	—	—	1,200	2,000	—	—	—	—
WDGE2 LED	10W	18W	Standalone / no light	1,200	2,000	3,000	4,500	6,000	—
WDGE3 LED	15W	18W	Standalone / no light	7,500	8,500	10,000	12,000	—	—
WDGE4 LED	—	—	—	12,000	14,000	16,000	18,000	20,000	25,000

**Ordering Information** **EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD**

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P0	27K 2700K	80CRI	VF Visual comfort forward throw	MVOLT	SRM
	P2	30K 3000K	80CRI	VW Visual comfort wide	347V	SRM

**Accessories**

Options	Stand-alone Sensors/Controls	Finish
E4WH Emergency battery backup, Certified in CA Title 20 MAERS (4W, 0°C min)	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights. Intended for use on switched circuits with external dusk-to-dawn switching.	DDBDZ Dark bronze
PE Photocell, Button Type	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBLD Black
DWG 0-10V dimming wires with 2-dimm and 2-light engines; see page 1 for details.	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBAD Natural aluminum
BCE Bottom conduct entry for back box (PBW), Total of 4 entry points.	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBWD White
BAA Buy America(s) Act Compliant	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBSD Sandstone
DSE Dual Switching (1 Drive, 2 Light Engines)	PRR Bi-level (100/50%) motion sensor for 8-17' mounting heights with photocell pre-programmed for dusk-to-dawn operation.	DDBTD Textured dark bronze

**Notes:**  
 1. 50K not available in 90CRI.  
 2. 347V not available with E4WH, DS, DSLE or PE.  
 3. E4WH not available with PE or DS.  
 4. PE not available with DS.  
 5. Not qualified for DLC. Not available with E4WH.

### Performance Data

**Lumen Output**  
 Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System/Notes	Unit Type	SRM (4000K, 80 CRI)	SRM (5000K, 80 CRI)
P0	7W	VF	693 99 0 0 0	718 103 0 0 0
		VW	694 99 0 0 0	720 103 0 0 0
P1	10W	VF	1,120 112 0 0 0	1,161 116 0 0 0
		VW	1,122 112 0 0 0	1,163 116 0 0 0
P2	15W	VF	1,886 120 1 0 0	1,972 125 1 0 0
		VW	1,889 120 1 0 0	1,974 125 1 0 0

**Electrical Load**

Performance Package	System/Notes	120V	208V	240V	277V	347V	480V
P1	10W	0.082	0.049	0.043	0.038	—	—
	13W	—	—	—	—	0.046	—
P2	15W	0.132	0.081	0.072	0.064	—	—
	18W	—	—	—	—	0.056	—

**Lumen Multiplier for 90CRI**

CRI	Multiplier
27K	0.845
30K	0.867
35K	0.865
40K	0.885
50K	0.898

**Lumen Output in Emergency Mode (4000K, 80 CRI)**

Option	Unit Type	Lumens
E4WH	VF	646
	VW	647

**Lumen Ambient Temperature (LAT) Multipliers**

Ambient	Multiplier
0°C	1.03
10°C	1.02
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.98

**Projected LED Lumen Maintenance**

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

**LITHONIA LIGHTING** COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com WDGE1 LED Rev. 11/16/23

**DESIGN CODES**  
IECC, 2018 NEC, 2017

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# WARE MALCOMB

CIVIL ENGINEERING  
BRANDING  
ARCHITECTURE PLANNING  
INTERIORS  
BUILDING MEASUREMENT

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**100% SET FOR CONSTRUCTION NOT**  
Expires: XX/XX/XX

# METSO

8223 EAST PECOS ROAD  
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12/22/2023	PRESUBMITTAL
02/19/2024	P&Z SUBMITTAL
02/22/2024	DR SUBMITTAL
05/06/2024	DR AND P&Z SUBMITTAL
06/03/2024	DR AND P&Z 2ND SUBMITTAL

PRELIMINARY CUT SHEET

PAIMP: AG/CRC  
 DRAWN BY: CRC  
 JOB NO.: IRV00-0000-00

SHEET  
**DR4.0**

**PRELIMINARY NOT FOR CONSTRUCTION**

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IF DRAWING IS NOT PLOTTED AT 24 X 36 THEY ARE NOT FULL SIZE