GENERAL NOTES

- 1. JS & ASSOCIATES SHALL IN NO WAY ASSUME RESPONSIBILITY FOR THE ELECTRICAL DESIGN OF THIS PROJECT. JSA LIGHTING DESIGN SHALL BE INCORPORATED AND VERIFIED BY ELECTRICAL ENGINEER OF RECORD FOR CODE COMPLIANCE.
- 2. ALL MEASUREMENTS, HEIGHTS, BACKGROUNDS, FINISHES SHALL BE VERIFIED BY INTERIOR DESIGNER AND ARCHITECT OF RECORD.

3. LIGHTING FIXTURES:

- A. LIGHTING FIXTURES SHALL NOT BE SUBSTITUTED WITHOUT PRIOR APPROVAL.
- B. LIGHTING FIXTURES AND CONTROLS SHALL BE DELIVERED TO SITE IN NEW CONDITION ONLY. C. ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL COMPLY WITH UL 924 AND OPERATE FOR A MINIMUM OF 90MIN IN EMERGENCY MODE.
- D. ALL LIGHTING FIXTURES SHALL BE UL OR ETL LISTED AND HAVE APPROPRIATE LABORATORY TESTING.

4. COMMERCIAL LIGHTING CONTROLS:

- A. HOTEL CORRIDORS SHALL MAINTAIN LESS THAN 0.5 WATTS OF GENERAL LIGHTING PER SQUARE FOOT AND SHALL BE CONTROLLED BY OCCUPANT SENSING CONTROLS TO REDUCE THE LIGHTING POWER BY 50% WHEN UNOCCUPIED USING THE CHECKER BOARDING METHOD. SEE 2016 TITLE 24 §130.1(B) & 2016 TITLE 24 §130.1(C)(6)(C).
- B. STAIRWELLS SHALL HAVE LIGHTING FIXTURES WITH INDEPENDENT, INTEGRATED ULTRASONIC MOTION SENSING AND BI-LEVEL DIMMING CONTROLS TO REDUCE THE LIGHTING POWER BY 50% WHEN THE SPACE BECOMES UNOCCUPIED. SEE 2016 TITLE 24 §130.1(C)(6)(C) & 2016 TITLE 24 §130.1(C)(6)(C).
- C. ALL OTHER COMMON AREAS SHALL MAINTAIN TITLE 24 COMPLIANT LIGHTING AND
- RECEPTACLE CONTROL AS REQUIRED. SEE LIGHTING CONTROL DETAILS ON SHEET LTG-5.0. D. AUTOMATIC DAYLIGHTING CONTROLS SHALL NOT BE REQUIRED IN AREAS WHERE THE PRIMARY DAYLIT ZONE CONTAINS LESS THAN 120W OF GENERAL LIGHTING OR ROOMS WITH A TOTAL GLAZING AREA OF LESS THAN 24 SQUARE FEET. SEE 2016 TITLE 24 §130.1(D)(2)(D) EXCEPTION 1 & 2.

5. GUESTROOM LIGHTING CONTROLS:

- A. HOTEL GUEST ROOM LIGHTING SHALL HAVE OCCUPANCY SENSING CONTROLS SUCH THAT NO LONGER THAN 30 MINUTES AFTER THE GUEST ROOM HAS BEEN VACATED. THE LIGHTING POWER IS SWITCHED TO OFF. IN ADDITION TO LIGHTING CONTROL, THE PTAC OR VTAC SHALL ALSO DRIFT A MINIMUM + OR - 5° DEGREES. TELKONET SYSTEM AS DESIGNED SHALL MEET BOTH CRITERIA AND THEREFORE TITLE 24 COMPLIANT. REFER TO WIRING DETAILS. ALSO SEE 2016 TITLE 24 §130.1(C)(8).
- B. HOTEL GUEST ROOMS SHALL HAVE CONTROLLED RECEPTACLES FOR AT LEAST ONE-HALF OF THE 120-VOLT RECEPTACLES USING SPLIT-WIRED DEVICES. REFER TO WIRING DETAILS. ALSO SEE 2016 TITLE 24 §130.5(D)(4).

2016 TITLE 24 §130.1(B) The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall provide multi-level lighting control...

2016 TITLE 24 §130.1(C)(6)(C) Lighting installed in corridors and stairwells shall be controlled by occupant sensing controls that separately reduce the lighting power in each space by at least 50 percent when the space is unoccupied. The occupant sensing controls shall be capable of automatically turning the lighting to fully ON only in the separately controlled space, and shall be automatically activated from all designed paths of egress.

2016 TITLE 24 §130.1(C)(8) Hotel motel guest rooms shall have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, lighting power is switched off.

2016 TITLE 24 §130.1(D) Automatic Daylighting Controls.

- 1. Daylit Zones shall be designed as follows:
- B. PRIMARY SIDELIT DAYLIT ZONE is the area in plan view and is directly adjacent to each vertical glazing, one window head height deep into the area, and window width plus 0.5 times window head height wide on each side of the rough opening of the window, minus any area on a plan beyond a permanent obstruction that is 6 feet or taller as measured from the floor.
- 2. Luminaires providing general lighting that are in or are partially in the Skylit Daylit Zones or the Primary Sidelit Daylit Zones shall be controlled independently by fully functional automatic daylighting controls that meet the applicable requirmenets of Section 110.9, and the applicable requirements below:
- A. All Skylit Daylit Zones and Primary Sidelit Daylit Zones shall be shown on the plans. B. Luminaires in the Skylit Daylit Zone shall be controlled separately from those in teh Primary Sidelit Daylit
- C. Luminaires that fall in both a Skylit and Primary Sidelit Daylit Zone shall be controlled as part of the
- D. Automatic Daylighting Control Installation and Operation. For luminaires in daylight zones, automatic daylighting controls shall be installed and configured to operate according to all of following requirements: i. Photosensors...

ii. Automatic daylighting controls shall provide functional multilevel lighting... EXCEPTION 1 to Section 130.1(d)2: Rooms in which the combined total installed general lighting power in the Skylit Dayliz Zone and Primary Sidelit Daylit Zone is less than 120 Watts.

EXCEPTION 2 to Section 130.1(d)2:Rooms that have a total glazing area of less than 24 square feet.

2016 TITLE 24 §130.5(D)(4) For hotel and motel guest rooms, install controlled receptacles for at least one-half of the 120-volt receptacles in each guestroom. Electric circuits serving controlled receptacles in guestrooms shall have captive card key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guestroom has been vacated.

0	RECESSED FIXTURE - ROUND	①	FLUSH MOUNT J-BOX	
©>	RECESSED WALL WASH FIXTURE - ROUND	(69) >	OCCUPANCY SENSOR	
	RECESSED FIXTURE - SQUARE	(P) (P)	POWER PACK	
	RECESSED WALL WASH FIXTURE - SQUARE	R	POWER RELAY	
0	PENDANT FIXTURE	·A'	PANELBOARD	
ю []	WALL MOUNTED FIXTURE	Φ	DUPLEX RECEPTACLE	
	2x2 LAY IN FIXTURE	•	1/2 HOT DUPLEX RECEPTACLE	
	2x4 LAY IN FIXTURE	Ψ	GFCI RECEPTACLE	
0	1x4 SURFACE-MOUNTED FIXTURE	•	QUADPLEX RECEPTACLE	
 	HATCHING INDICATES EMERGENCY FIXTURE	•	1/2 HOT QUADPLEX RECEPTACLE	
****	RIBBON LIGHT AT COVE	THE STATE OF THE S	ABOVE COUNTER RECEPTACLE	
❷	LINEAR PENDANT FIXTURE	Ψ	208V RECEPTACLE - VTAC/RANGE/OTHER	
	LINEAR RECESSED FIXTURE	Y	CAT6 TELEPHONE JACK	
	ELEVATOR PIT FIXTURE	▽	CAT6 DATA JACK	
_	ELECTRIC BACKLIT MIRROR	A	COMBINATION TELEPHONE/DATA JACK	
9	ELECTRIC BATHROOM EXHAUST FAN	4	RG6U COAX FOR TV	
	POLE MOUNTED FIXTURE	+44"	INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR OR ABOVE FINISHED GRADE TO <u>CENTER</u> OF DEVICE.	
∇	LANDSCAPE UPLIGHT - SPOT, 12V	\$os	WALL SWITCH 3 THREE WAY	
⊗	CEILING MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE		os OCCUPANCY SENSOR d DIMMER k TAMPER OR KEY OPERATED	
\$	WALL MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE		m CAPTIVE CARD t TIMER	
A ‡	WALL MOUNTED, LOWER EXIT SIGN SHADED REGION INDICATES FACE	(#)	KEYED NOTED	
	EMERGENCY LIGHT FIXTURE	##/LTG-#	INDICATES VIEW ## ON SHEET LTG-#	

ELECTRICAL SYMBOLS LEGEND					ABBREVIATIONS		
0	RECESSED FIXTURE - ROUND	①	FLUSH MOUNT J-BOX	(D)	DEMO		
(ii)	RECESSED WALL WASH FIXTURE - ROUND	(©3) >	OCCUPANCY SENSOR	(E)	EXISTING		
	RECESSED FIXTURE - SQUARE	(P) (P)	POWER PACK	(F)	FUTURE		
	RECESSED WALL WASH FIXTURE - SQUARE	R	POWER RELAY	(N)	NEW		
0	PENDANT FIXTURE	- 'A'	PANELBOARD	(R)	RELOCATED		
Ю	WALL MOUNTED FIXTURE	Φ	DUPLEX RECEPTACLE	AC	ABOVE COUNTER, 4" ABOVE BACKSPLASH		
	2x2 LAY IN FIXTURE	•	1/2 HOT DUPLEX RECEPTACLE	AFF	ABOVE FINISH FLOOR		
	2x4 LAY IN FIXTURE	₩	GFCI RECEPTACLE	AFG	ABOVE FINISH GRADE		
0	1x4 SURFACE-MOUNTED FIXTURE	#	QUADPLEX RECEPTACLE	AL	ALUMINUM		
 I	HATCHING INDICATES EMERGENCY FIXTURE	•	1/2 HOT QUADPLEX RECEPTACLE	BLG	BELOW GRADE		
****	RIBBON LIGHT AT COVE	#	ABOVE COUNTER RECEPTACLE	BOD	BOTTOM OF DEVICE		
⊗]	LINEAR PENDANT FIXTURE	Ψ	208V RECEPTACLE - VTAC/RANGE/OTHER	С	CONDUIT		
	LINEAR RECESSED FIXTURE	▼	CAT6 TELEPHONE JACK	COD	CENTER OF DEVICE		
	ELEVATOR PIT FIXTURE	▽	CAT6 DATA JACK	CU	COPPER		
_	ELECTRIC BACKLIT MIRROR	Ā	COMBINATION TELEPHONE/DATA JACK	EC	ELECTRICAL CONTRACTOR		
	ELECTRIC BATHROOM EXHAUST FAN	4	RG6U COAX FOR TV	GC	GENERAL CONTRACTOR		
	POLE MOUNTED FIXTURE	+44"	INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR OR	GEC	GROUNDING ELECTRODE CONDUCTOR		
			ABOVE FINISHED GRADE TO <u>CENTER</u> OF DEVICE.	GES	GROUNDING ELECTRODE SYSTEM		
∇	LANDSCAPE UPLIGHT - SPOT, 12V	\$os	WALL SWITCH 3 THREE WAY	GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
⊗	CEILING MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE		os OCCUPANCY SENSOR d DIMMER k TAMPER OR KEY OPERATED		GROUND		
					MECHANICAL CONTRACTOR		
\$	WALL MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE		m CAPTIVE CARD t TIMER	NL	NIGHT LIGHT		
g.	WALL MOUNTED, LOWER EXIT SIGN			TYP	TYPICAL		
A \$	SHADED REGION INDICATES FACE	(#)	KEYED NOTED	UG	UNDERGROUND		
	EMERGENCY LIGHT FIXTURE	##/LTG-#	INDICATES VIEW ## ON SHEET LTG-#	UNO	UNLESS NOTED OTHERWISE		
				UTW	UNSHIELDED TWISTED PAIR		
				WP	WEATHERPROOF		
				XFMR	TRANSFORMER		

		ABBREVIATIONS
	(D)	DEMO
	(E)	EXISTING
	(F)	FUTURE
	(N)	NEW
	(R)	RELOCATED
	AC	ABOVE COUNTER, 4" ABOVE BACKSPLASH
	AFF	ABOVE FINISH FLOOR
	AFG	ABOVE FINISH GRADE
	AL	ALUMINUM
	BLG	BELOW GRADE
	BOD	BOTTOM OF DEVICE
	С	CONDUIT
	COD	CENTER OF DEVICE
	CU	COPPER
	EC	ELECTRICAL CONTRACTOR
	GC	GENERAL CONTRACTOR
OR OR	GEC	GROUNDING ELECTRODE CONDUCTOR
	GES	GROUNDING ELECTRODE SYSTEM
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	GND	GROUND
	MC	MECHANICAL CONTRACTOR
	NL	NIGHT LIGHT
	TYP	TYPICAL
	UG	UNDERGROUND
	UNO	UNLESS NOTED OTHERWISE
_	UTW	UNSHIELDED TWISTED PAIR
	WP	WEATHERPROOF
	XFMR	TRANSFORMER

CIRCUITING					
	LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.				
	OCCUPANCY SENSOR-CONTROLLED LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.				
<u></u>	NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE. GROUND WIRE NOT SHOWN, BUT SHALL BE INCLUDED. NO HASH MARKS INDICATES 2 CONDUCTORS PLUS GROUND.				
C	LIGHTING CIRCUIT IN UNDERGROUND CONDUIT.				
-#-	LIGHTING CIRCUIT HOMERUN. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE.				
- #►	O.S. CIRCUIT HOMERUN. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE.				

LIGHTING CONSULTANT

JS & ASSOCIATES 535 PRINCELAND COURT CORONA CA 92879 P: 951.340.2475

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GREENS ATMAN KADAKIA GREENS GROUP, INC. 9289 RESEARCH DRIVE IRVINE, CALIFORNIA 92618 P: 949.829.4900 | C: 949.322.1760

PROJECT:

HOTELS MARRIOTT Residence Inn

Marriott AC+RI **RIVERSIDE** 3466 MISSION INN RIVERSIDE, CA

PRELIMINARY



CONSTRUCTION

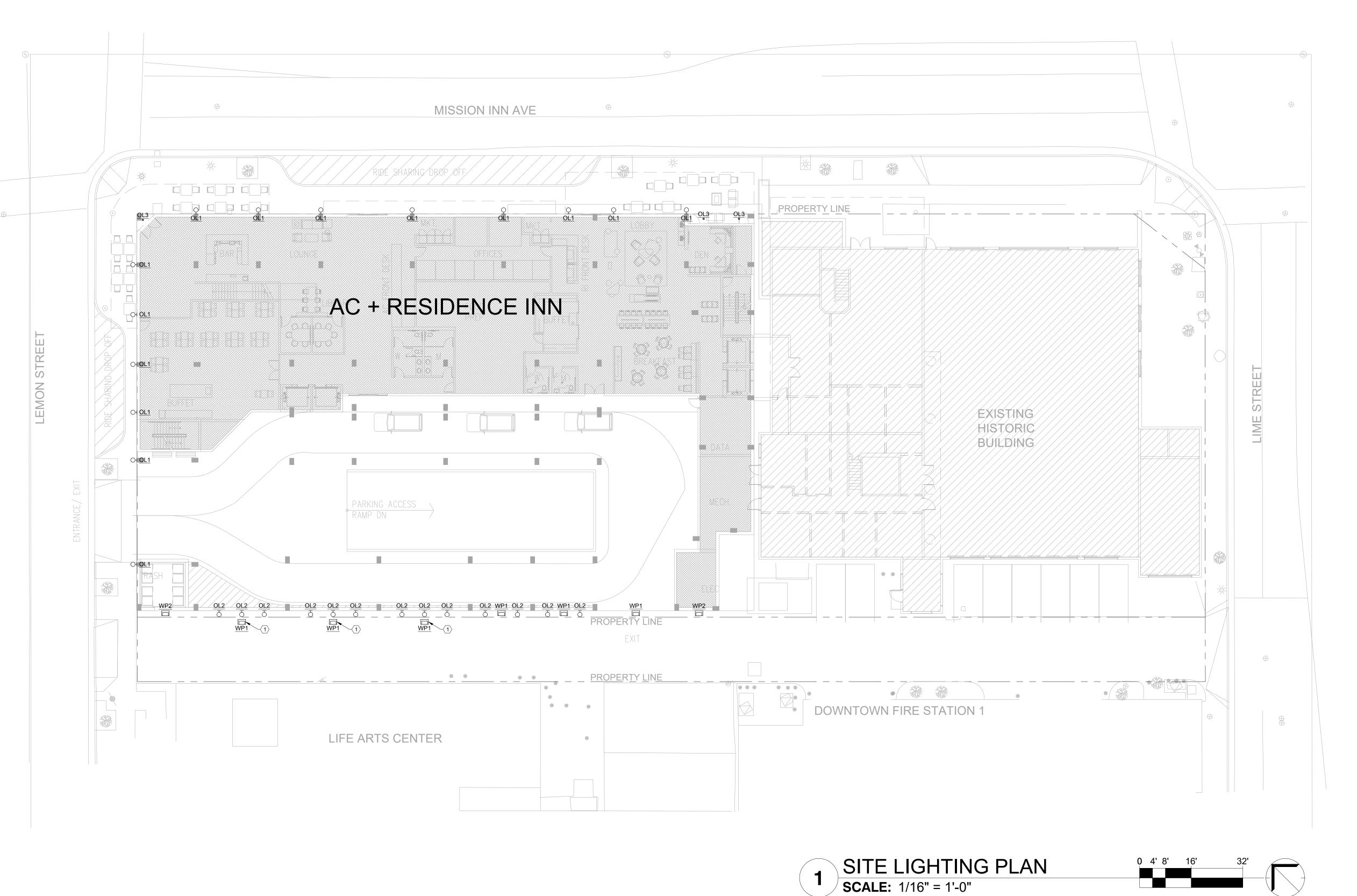
DRAWN BY: S.G. CHECKED BY: J.S.

AS SHOWN SCALE: SHEET TITLE:

> SHEET INDEX NOTES **ABBREVIATIONS** & SYMBOLS

SHEET NO.: LTG-0.1

SHEET INDEX SHEET NO. SHEET NAME LTG-0.1 SHEET INDEX, NOTES, ABBREVIATIONS & SYMBOLS LTG-1.0 | SITE LIGHTING PLAN LTG-1.1 SITE PHOTOMETRICS LTG-2.0 EXTERIOR LIGHTING CUT SHEETS LTG-2.1 EXTERIOR LIGHTING CUT SHEETS



GENERAL NOTES:

ALL EXTERIOR LIGHTING SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL WITH ASTRONOMICAL TIME CLOCK.

- COORDINATE ALL EXTERIOR LIGHTING FIXTURE MOUNTING HEIGHTS WITH ARCHITECT & OWNER.
- ALL EMERGENCY SHADED FIXTURES SHALL BE CONNECTED TO EMERGENCY INVERTER FOR EXTERIOR LIGHTING AND PRODUCE A MINIMUM OF 90 MIN EMERGENCY OPERATION.
- REFER TO EXTERIOR LIGHTING FIXTURE SCHEDULE ON SHEET LTG-1.1 FOR TYPICAL FIXTURE MOUNTING HEIGHTS.

KEY NOTES:

NSTALL WALL PACK (WP1) CENTERED ABOVE SIGN LIGHT (OL2) AT HEIGHTS SPECIFIED ON LTG-1.1

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PROJECT:



Residence Inn Marriott

AC+RI RIVERSIDE 3466 MISSION INN

RIVERSIDE, CA

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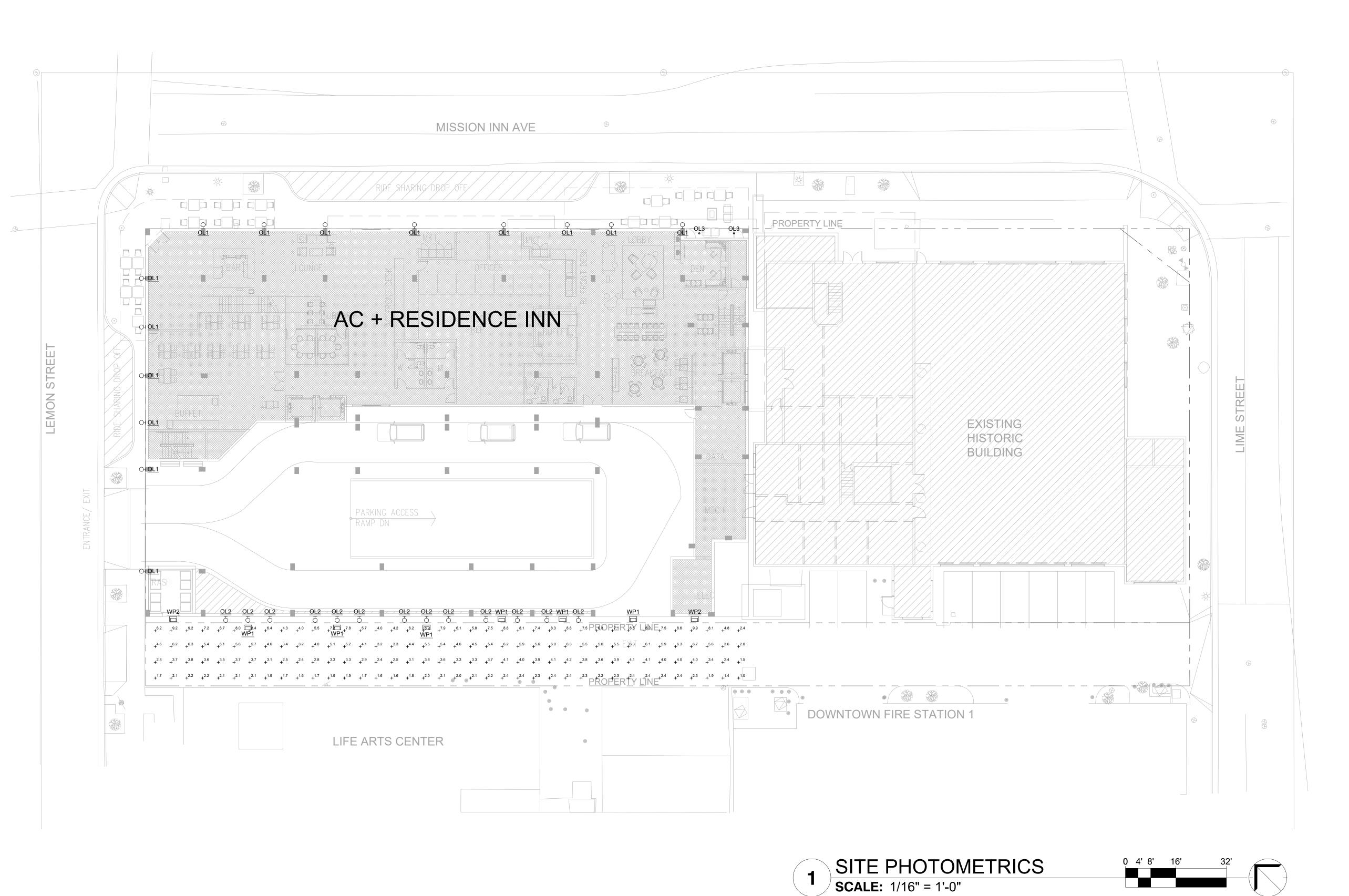
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SHEET TITLE:

SITE LIGHTING PLAN

SHEET NO.:

LTG-1.0



GENERAL NOTES: . CALCULATION ZONE @ ALLEY IS A 5'x5' GRID.

PHOTOMETRIC STATISTICS:

Location	Symbol	Avg	Max	Min	Max/Min	Avg/Min	
Alley	+	4.4 fc	9.9 fc	1.0 fc	9.9:1	4.4:1	

FIXTURE SCHEDULE:

1 1/	· · · · · ·	OOTILDOLL.
OL1	5	LED GOOSENECK LIGHT 16W, 4000K, 1250 Lm @ 8'-0" A.F.G.
OL2	?	LED GOOSENECK SIGN LIGHT 27W, 4000K, 2000 Lm @ 9'-0" A.F.G.
OL3		4" RECESSED LED CAN LIGHT ROUND TRIM 10W, 4000K, 650 Lm @ U.S. OF FLOOR ABOVE (±12'-0")
WP1		SLIM WALL PACK 28W, 4000K, 3480 Lm @ 14'-0" A.F.G.
WP2		SLIM WALL PACK 45W, 4000K, 5400 Lm @ 14'-0" A.F.G.

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PROJECT:



Residence Inn Marriott AC+RI

RIVERSIDE 3466 MISSION INN RIVERSIDE, CA

PRELIMINARY



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AS SHOWN

SHEET TITLE:

SITE PHOTOMETRICS

SHEET NO.:

LTG-1.1

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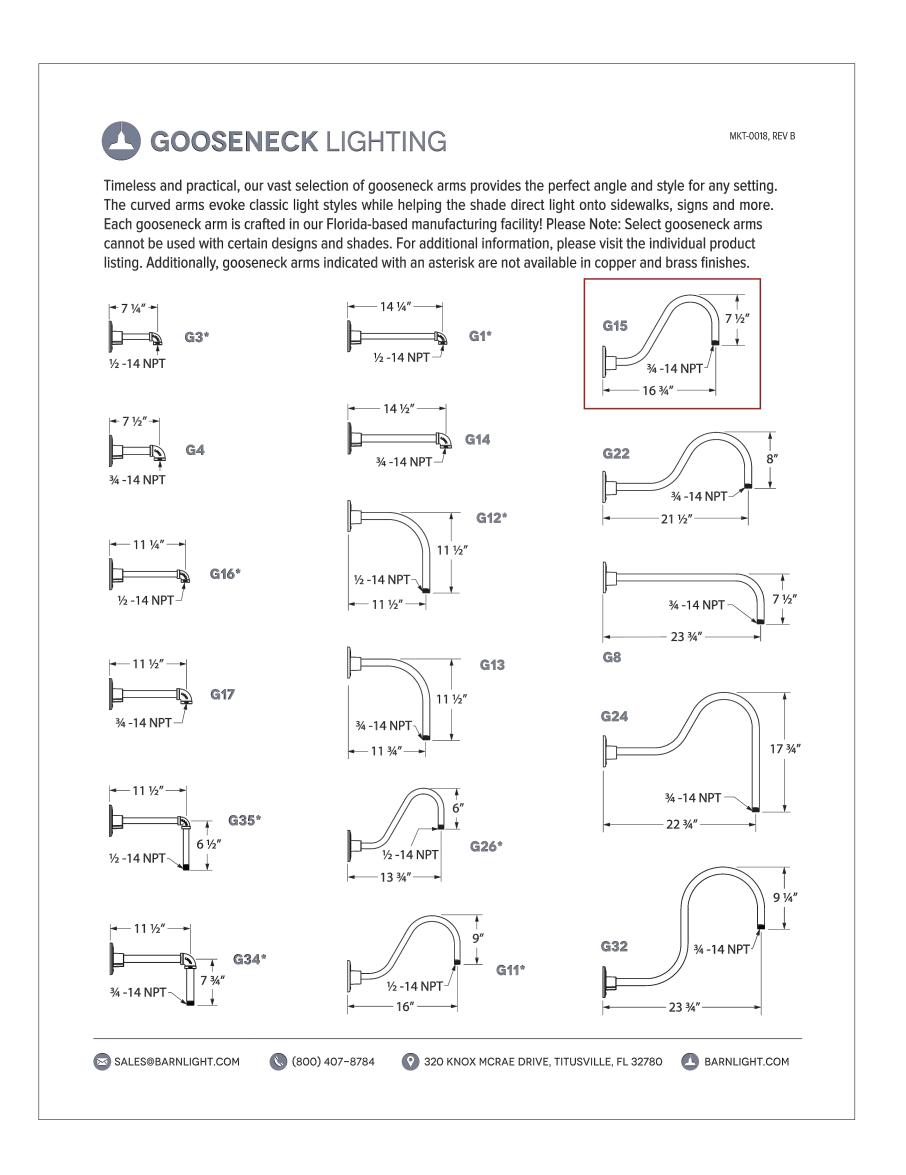
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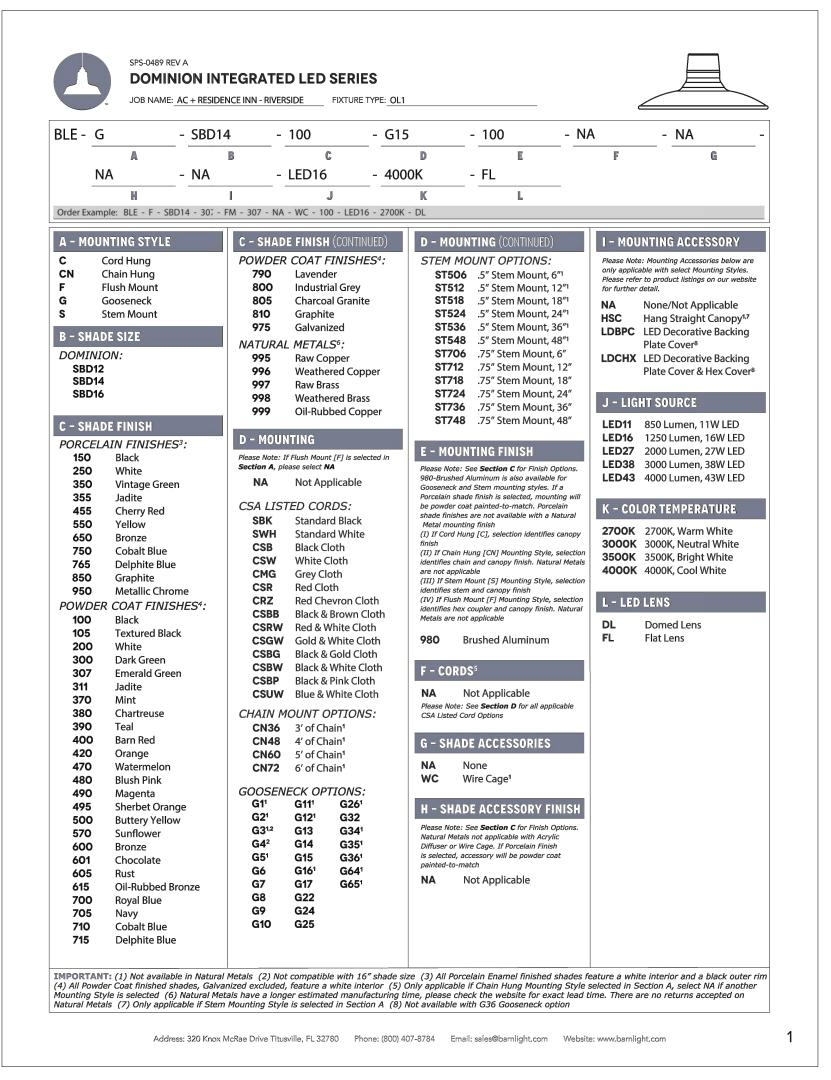
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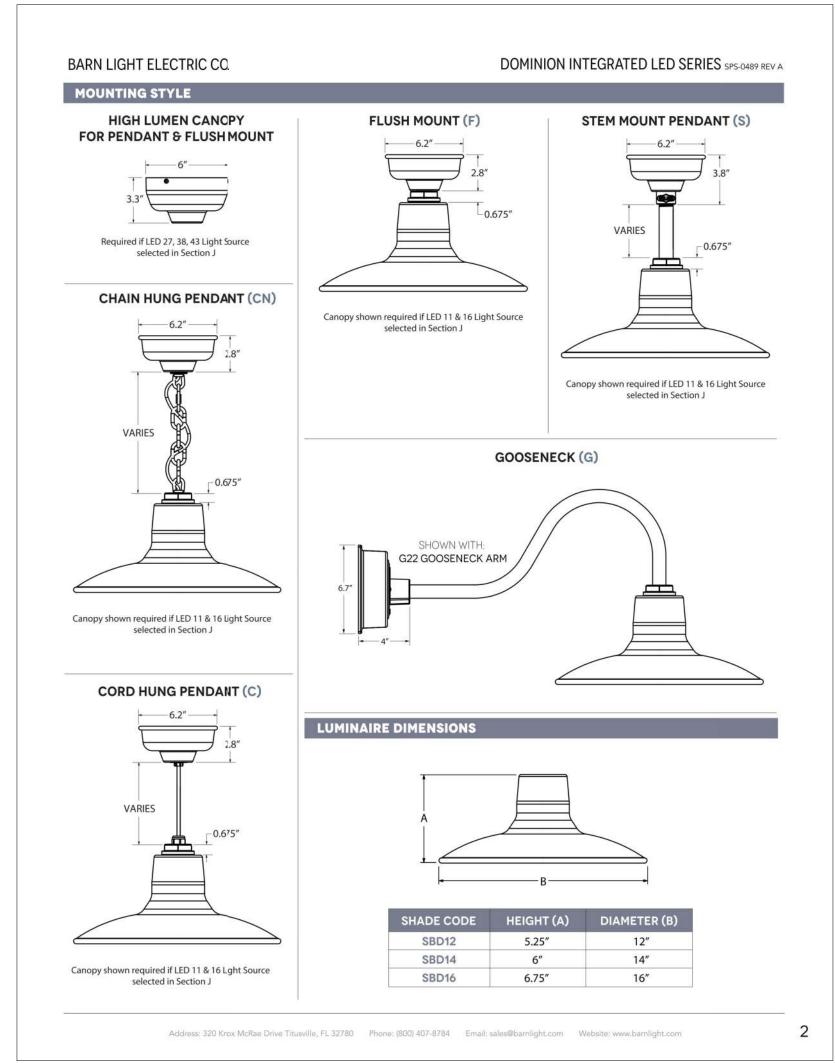
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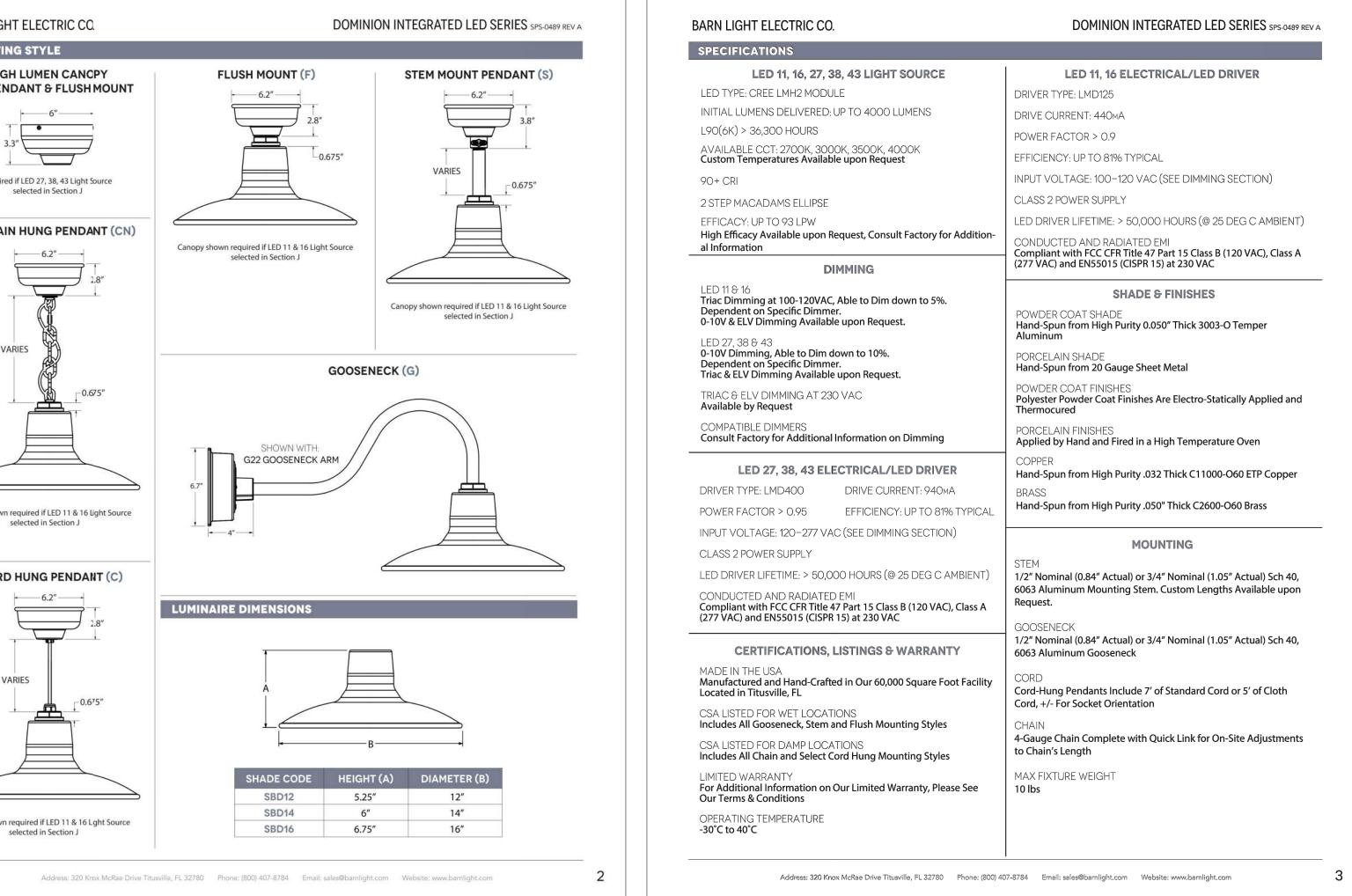
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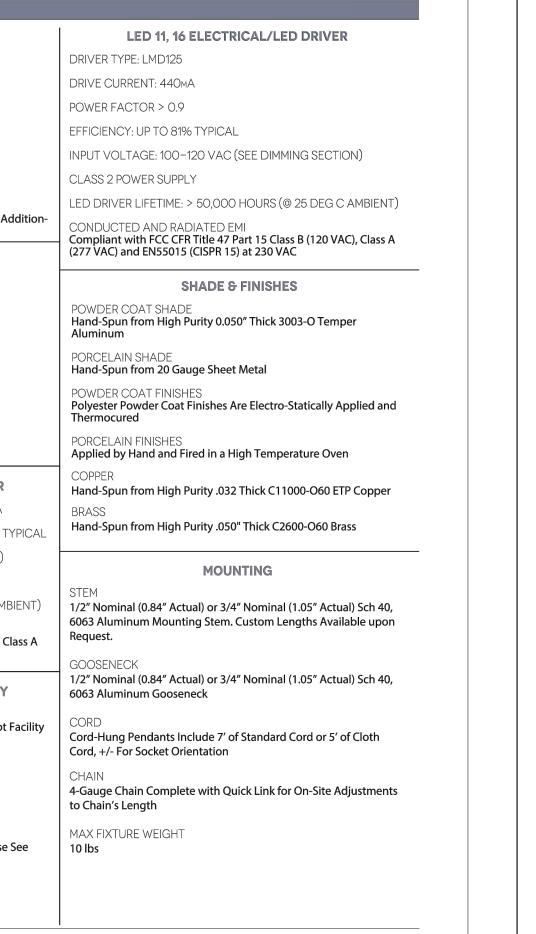
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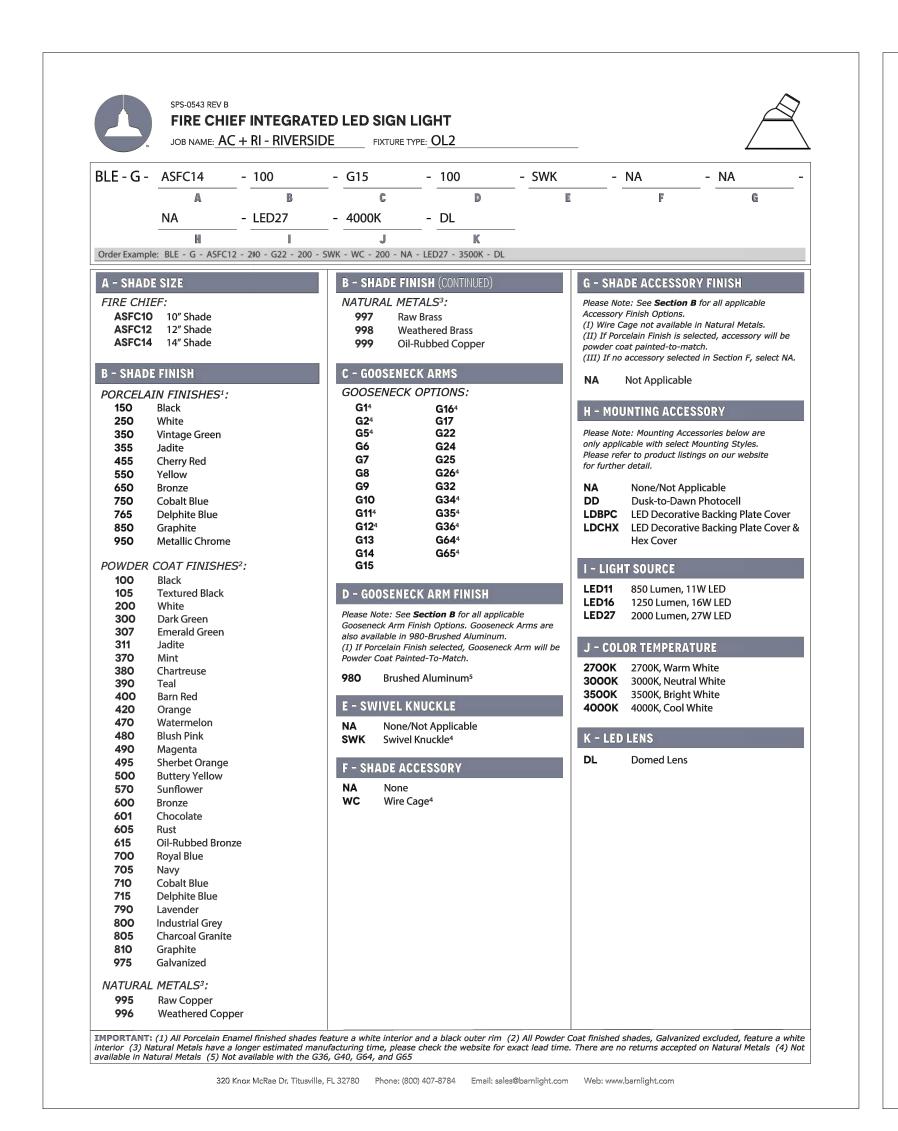


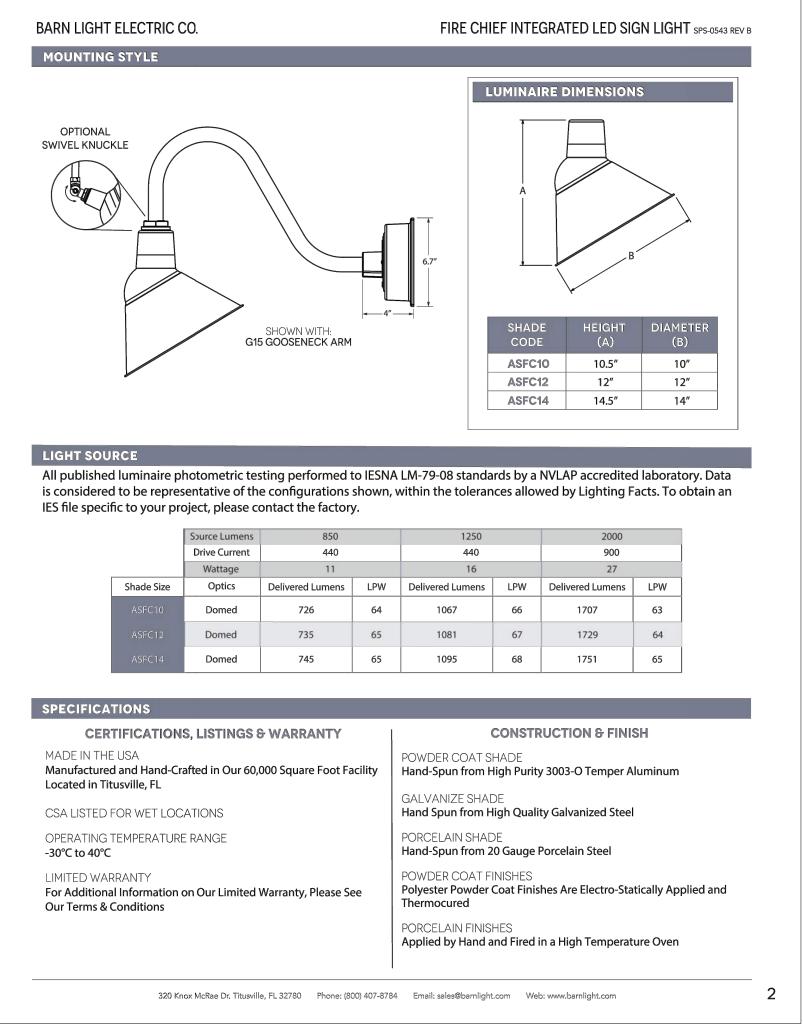


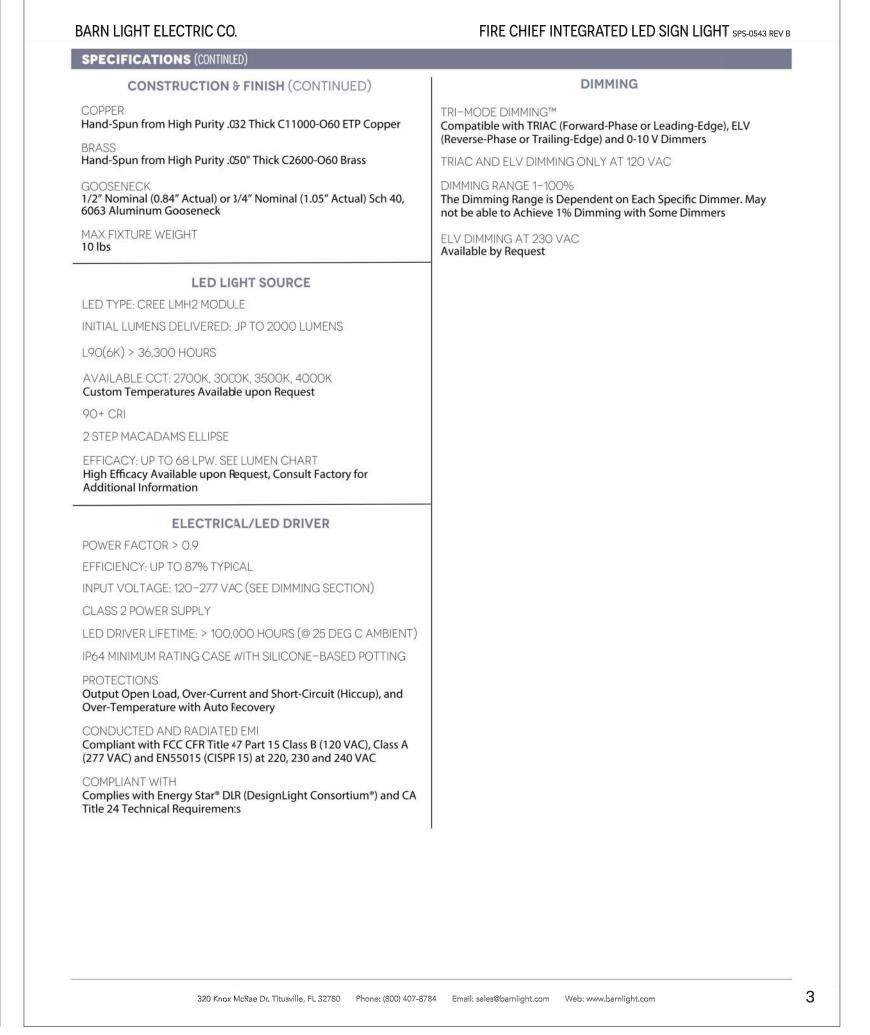




GOOSENECK FOR FIXTURES 'OL1' & 'OL2' 3 FIXTURE TYPE 'OL1'



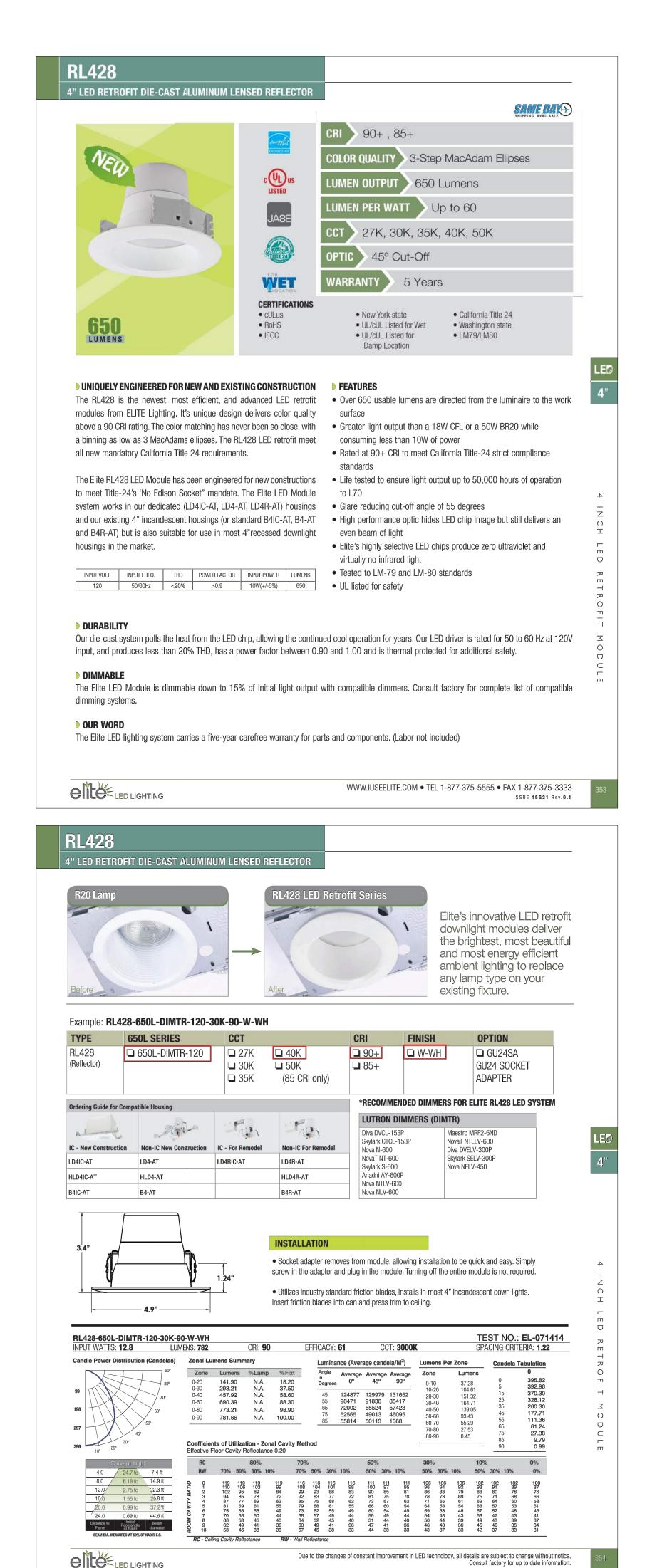




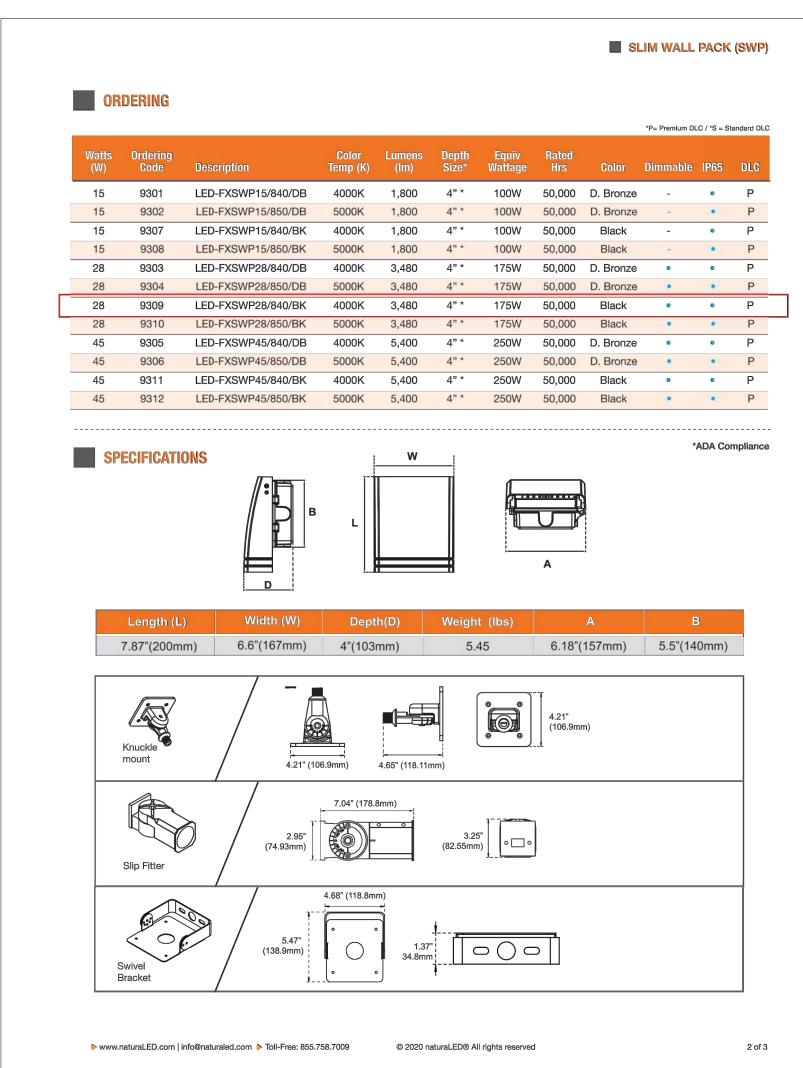
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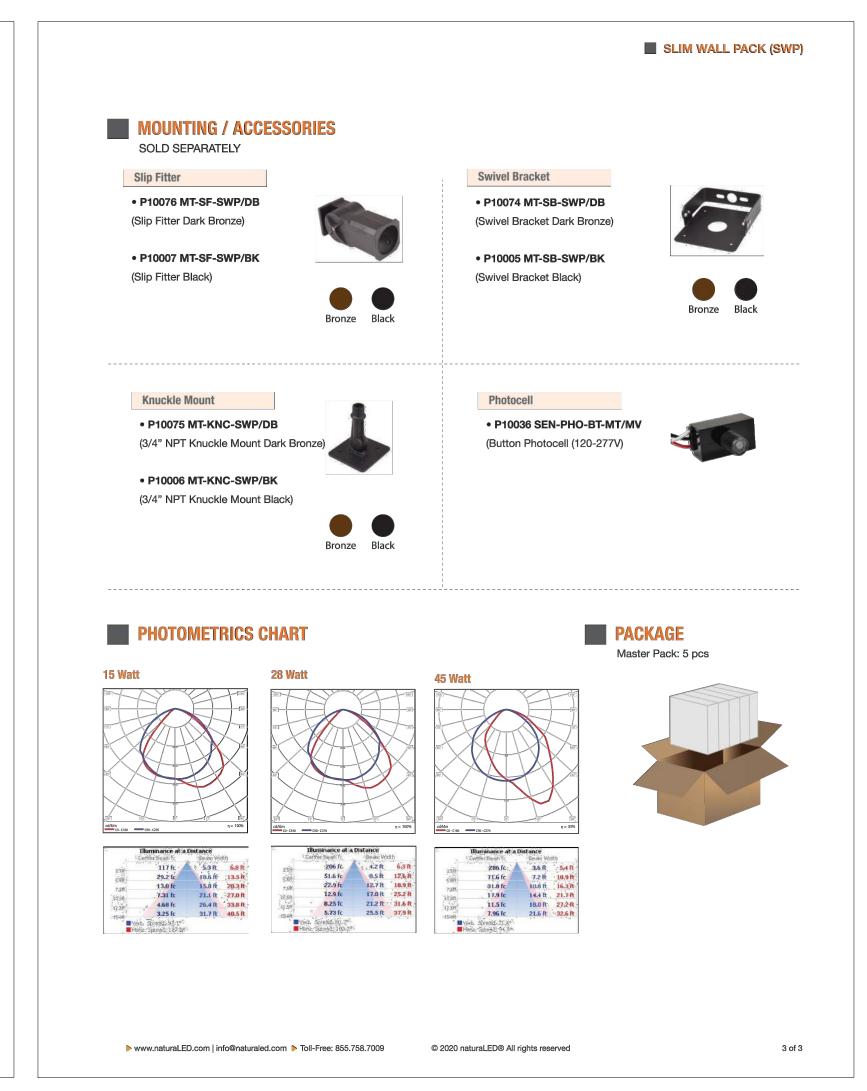
SHEET NO.:

CUT SHEETS



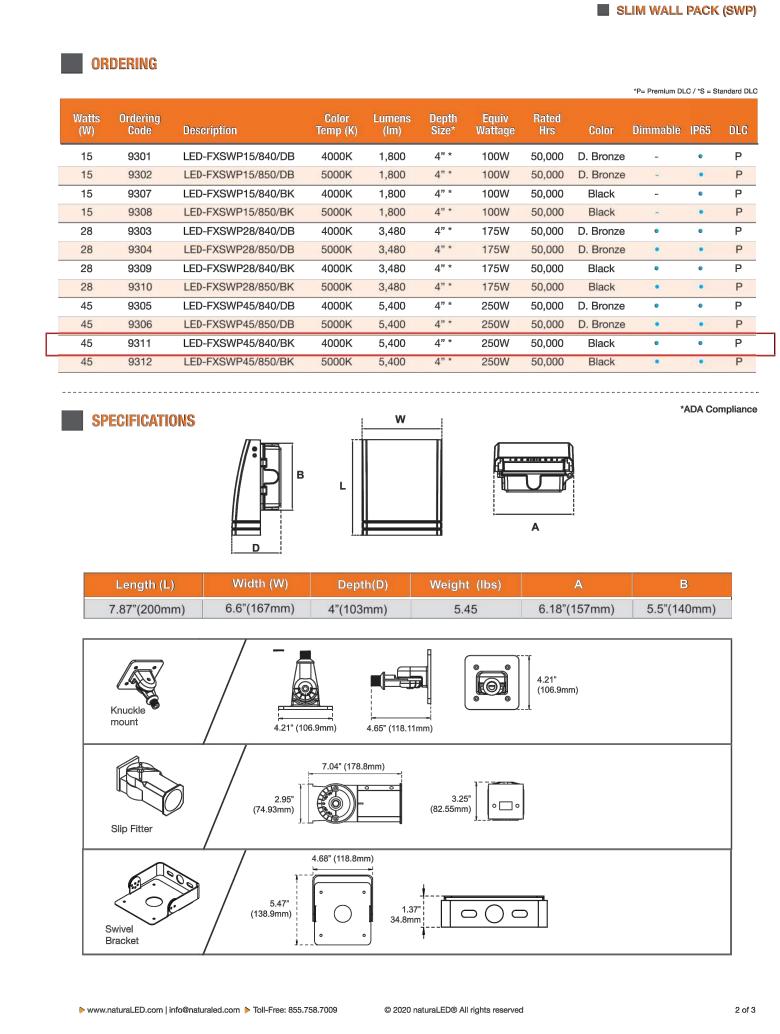


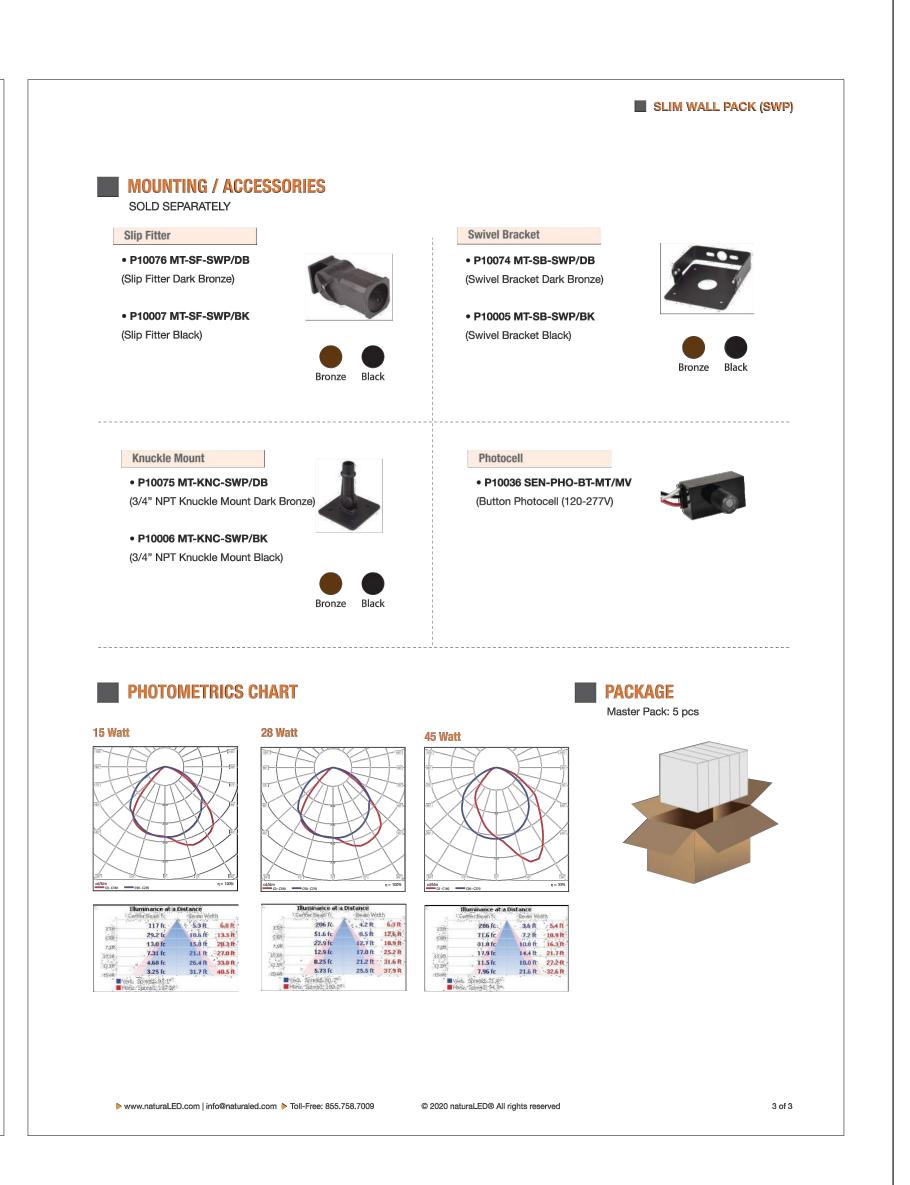




FIXTURE TYPE 'WP1'







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> MARRIOTT Residence Inn Marriott AC+RI

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AS SHOWN SCALE: SHEET TITLE:

> **EXTERIOR** LIGHTING **CUT SHEETS**

SHEET NO.:

LTG-2.1 FIXTURE TYPE 'WP2'

FIXTURE TYPE 'OL3' 3