

GENERAL NOTES

1. JS & ASSOCIATES SHALL IN NO WAY ASSUME RESPONSIBILITY FOR THE ELECTRICAL DESIGN OF THIS PROJECT. JS A 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 SUBMITTED WITHOUT PRIOR APPROVAL.
 - B. LIGHTING FIXTURES AND CONTROLS SHALL BE DELIVERED TO SITE IN NEW CONDITION ONLY.
 - C. ALL LIGHTING FIXTURES AND CONTROLS SHALL BE ENERGY STAR LISTED. LIGHTING SHALL COMPLY WITH UL 924 AND OPERATE FOR A MINIMUM OF 50MIN 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 DURING WHEN NO OCCUPANT IS PRESENT. SEE THE CHECKER BOARDING METHOD. SEE 2016 TITLE 24 §130.1(C)(6)(C).
 - B. STAIRWELLS SHALL HAVE LIGHTING FIXTURES WITH INDEPENDENT, INTEGRATED ULTRASONIC MOTION SENSING AND B/L 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(D)(2)(D).
 - C. ALL OTHER COMMUNICAS SHALL MAINTAIN TITLE 24 COMPLIANT LIGHTING AND RECEPTEACLE 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 GLAZED 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 ROOMS 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 +0° -5° DEGREES. TELKONET SYSTEM AS DESIGNED SHALL MEET THESE REQUIREMENTS. SEE TITLE 24 COMPLIANT. REFER TO WIRING DETAILS. ALSO SEE TITLE 24 §130.1(C)(6).
 - 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(4).

2016 TABLE 24 5.10 (1B) 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 TABLE 24 5.10 (1C)(i)(C) Lighting installed in corridors and stairswells 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 TABLE 24 5.10 (1C)(ii)(C) Hotel guest rooms shall have captive key card controls, occupancy sensing controls, or automatic controls that, no longer than 30 minutes after the guest room has been vacated, lighting power is switched off.

2016 TABLE 24 5.10 (1D) Automatic Daylighting Controls

1. Daylight Zones shall be designed as follows:
 - B. PRIMARY SIDELIT DAYLIGHT ZONE is the area in plain view and is directly adjacent to each vertical glazing surface, extending into the area and window with plus 0.5 times window head height wide on each side of the rough opening of the window, minus any area on a plane beyond a permanent obstruction that is 6 feet or taller as measured from the floor.
 - Luminaires providing lighting that is in or adjacent to a window in the Skylit Daylight Zone or the Primary Skylit Daylight Zone shall be controlled separately by fully functional automatic daylighting controls that meet the applicable requirements of Section 110.9, and the applicable requirements below.
 - A. All Skylit Daylight Zones and Primary Skylit Daylight Zone shall be shown on the plans.
 - B. Luminaires in the Skylit Daylight Zone shall be controlled separately from those in the Primary Sidelit Daylight Zone.
 - C. Luminaires that fall in both a Skylit and Primary Sidelit Daylight Zone shall be controlled as part of the Skylit Daylight Zone.
 - 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 130.16(2): Rooms in which the combined total installed general lighting power in the Skylit Daylight Zone and Primary Sidelit Daylight Zone is less than 120 Watts.

EXCEPTION 2 to Section 130.16(2): Rooms that have no total glazing area of less than 24 square feet.

2016 TABLE 24 5.10 (5D)(4) For hotel and motel guest rooms, installed controlled receptacles at least on half-one of the 120-volt receptacles in each guestroom. Electric circuit circuits serving controlled receptacles in guestrooms shall have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no

ELECTRICAL SYMBOLS LEGEND

○	RECESSED FIXTURE - ROUND	○	FLUSH MOUNT J-BOX
○	RECESSED WALL WASH FIXTURE - ROUND	○	OCCUPANCY SENSOR
□	RECESSED FIXTURE - SQUARE	○	POWER PACK
○	RECESSED WALL WASH FIXTURE - SQUARE	○	POWER RELAY
○	PENDANT FIXTURE	○	PANELBOARD
○	WALL MOUNTED FIXTURE	○	DUPLEX RECEPTACLE
□	2x2 LAY IN FIXTURE	○	1/2 HOT DUPLEX RECEPTACLE
□	2x4 LAY IN FIXTURE	○	GFCI RECEPTACLE
□	1x4 SURFACE-MOUNTED FIXTURE	○	QUADPLEX RECEPTACLE
◆◆◆◆◆	HATCHING INDICATES EMERGENCY FIXTURE	○	1/2 HOT QUADPLEX RECEPTACLE
*****	RIBBON LIGHT AT COVE	○	ABOVE COUNTER RECEPTACLE
=====	LINEAR PENDANT FIXTURE	○	208V RECEPTACLE - V1AC/RANGE/OTHER
=====	LINEAR RECESSED FIXTURE	▼	CAT5 TELEPHONE JACK
=====	ELEVATOR PIT FIXTURE	▼	CAT5 DATA JACK
—	ELECTRIC BACKLIT MIRROR	▼	COMBINATION TELEPHONE/DATA JACK
■	ELECTRIC BATHROOM EXHAUST FAN	△	RG6 COAX FOR TV
○	POLE MOUNTED FIXTURE	+44"	INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE TO CENTER OF DEVICE
▼	LANDSCAPE UPLIGHT - SPOT, 12V	○	WALL SWITCH
◆	CEILING MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE	○	3 POSITION 3 WAY
◆	WALL MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE	○	0s OCCUPANCY SENSOR
◆	WALL MOUNTED, LOWER EXIT SIGN SHADED REGION INDICATES FACE	○	d DIMMER
◆	EMERGENCY LIGHT FIXTURE	○	k TAMPER OR KEY OPERATED
◆◆◆◆◆		○	m CAPTIVE CARD
◆◆◆◆◆		○	t TIMER
■■■■■		○	KEYED NOTED
■■■■■		##LTG-#	INDICATES VIEW ## ON SHEET LTG-#

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
C	CONDUIT
COD	CENTER OF DEVICE
CU	COPPER
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
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

LIGHTING CONSULTANT

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The logo for the AC HOTELS MARRIOTT brand. It features a black square with the letters 'AC' in large, bold, white, sans-serif font. Below 'AC' is the word 'HOTELS' in a smaller, white, sans-serif font. At the bottom of the square is the word 'MARRIOTT' in a white, sans-serif font. Below the square, the words 'Residence Inn' are written in a white, sans-serif font. To the right of 'Residence' is a small, stylized 'M' logo consisting of three horizontal bars of increasing length from left to right.

CIRCUITIN

- LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.
- OCCUPANCY SENSOR-CONTROLLED LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.
- 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.
- 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.

DATE	DESIGNATION
2020.07.17	SITE LIG

PRELIMINARY



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SCALE: AS SHOWN
SHEET TITLE: SHEET INDEX
NOTES
ABBREVIATIONS & SYMBOLS
SHEET NO.: LTG-0.1

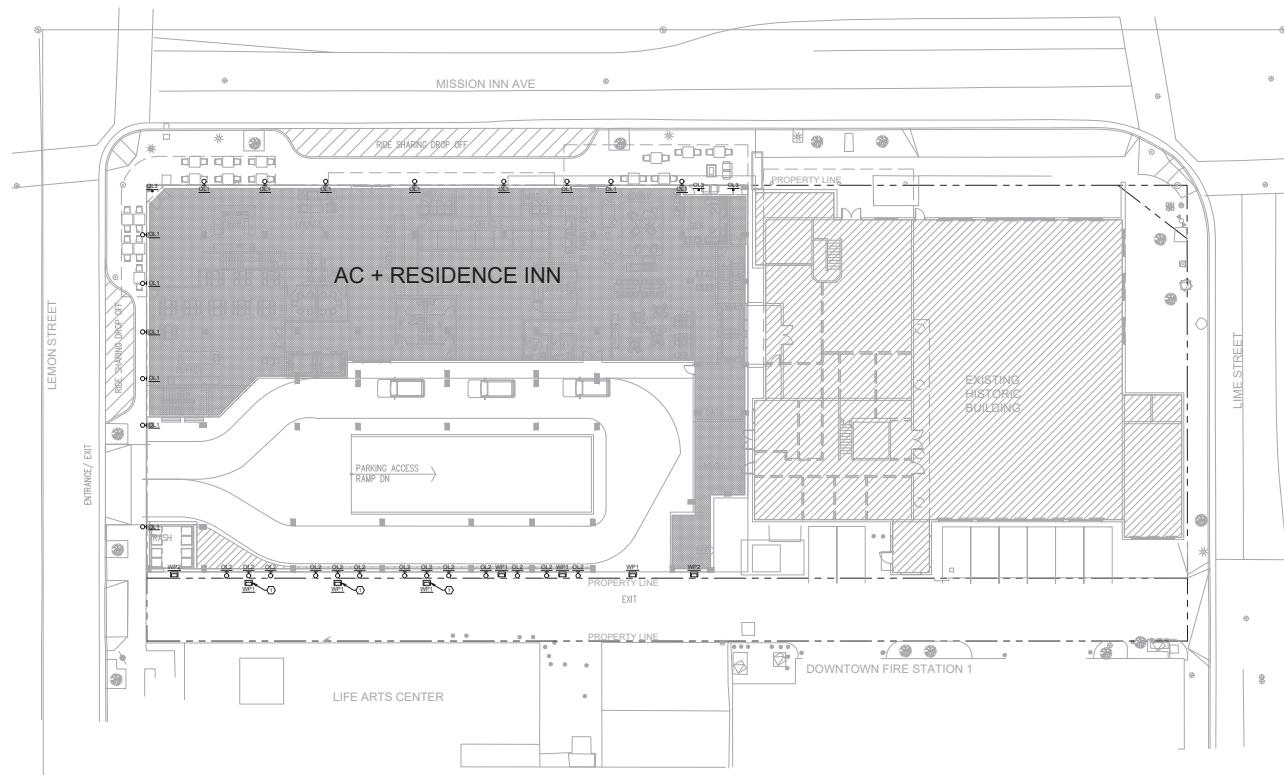
A vertical rectangular label with a black border. The word 'PRELIMINARY' is at the top in bold capital letters. In the center is a black circle with a diagonal line from top-left to bottom-right, and a hammer icon inside. At the bottom is the text 'NOT FOR' in bold capital letters.

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NOTES
ABBREVIATIONS
& SYMBOLS

SHEET INDEX

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

LTG-0.1



1 SITE LIGHTING PLAN
SCALE: 1/16" = 1'-0"



GENERAL NOTES:

1. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL WITH ASTROLOGIC TIME CLOCK.
2. COORDINATE ALL EXTERIOR LIGHTING FIXTURE MOUNTING HEIGHTS WITH ARCHITECT & OWNER.
3. ALL EMERGENCY SHAGED FIXTURES SHALL BE CONNECTED TO EMERGENCY INVERTER POWERED LIGHTING AND PRODUCE A MINIMUM OF 90 MIN EMERGENCY OPERATION.
4. REFER TO EXTERIOR LIGHTING FIXTURE SCHEDULE ON SHEET LTG-1 FOR TYPICAL FIXTURE MOUNTING HEIGHTS.

KEY NOTES:

○ INSTALL WALL PACK(WP) CENTERED ABOVE SIGN LIGHT (OL2) AT HEIGHTS SPECIFIED ON LTG-1.

LIGHTING CONSULTANT

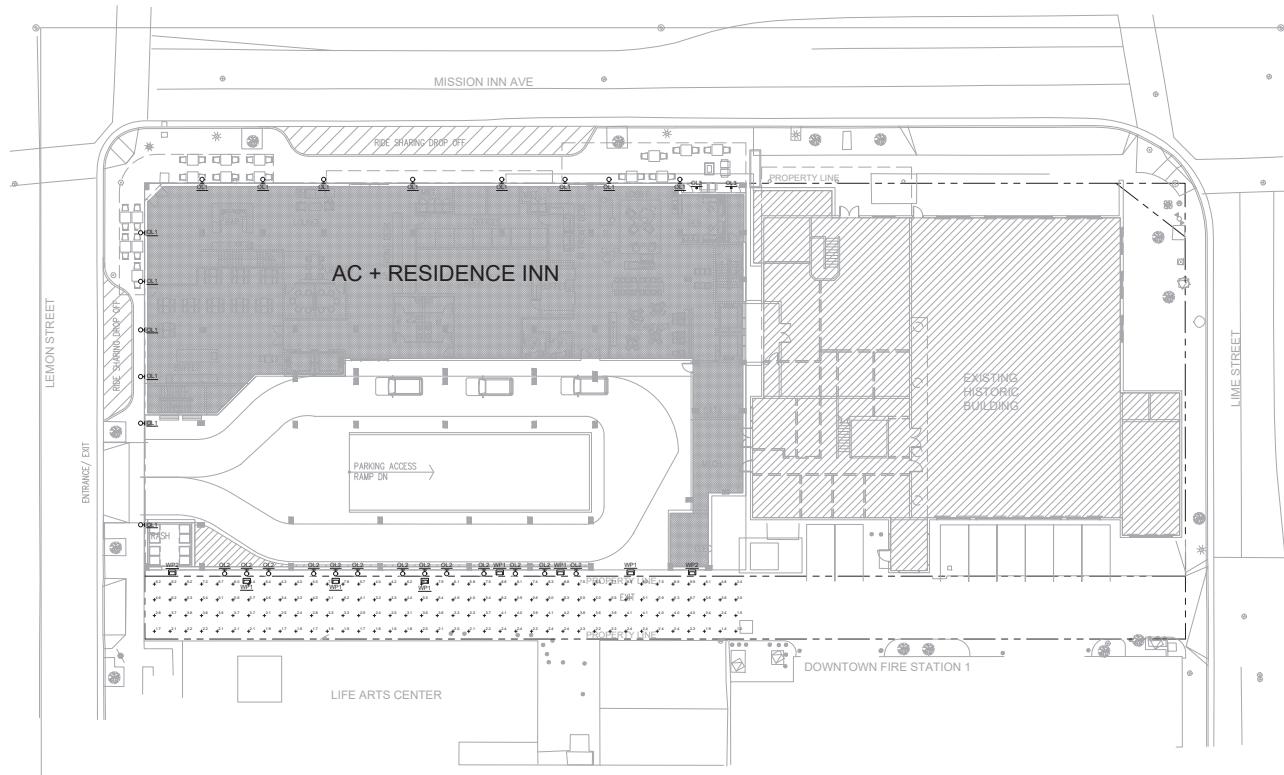
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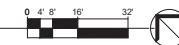
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PROJECT:
**AC HOTELS
Residence Inn
Riverside**
AC+RI
RIVERSIDE
3466 MISSION INN
RIVERSIDE, CA

DATE	DESCRIPTION
2020.07.17	SITE LIGHTING & PHOTOMETRICS
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SHEET TITLE: SITE LIGHTING PLAN	
SHEET NO.: LTG-1.0	



1 SITE PHOTOMETRICS
SCALE: 1/16" = 1'-0"



GENERAL NOTES:

1. CALCULATION ZONE @ ALLEY IS A 5'x6' GRID.

LIGHTING CONSULTANT

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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:

OL1		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 10W, 4000K, 650 Lm @ U.S. GP FLOOR ABOVE (x12'-0")
WP1		SLIM WALL PACK 24W, 4000K, 2000 Lm @ 14'-0" A.F.G.
WP2		SLIM WALL PACK 48W, 4000K, 5400 Lm @ 14'-0" A.F.G.

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PROJECT:

AC HOTELS
RESIDENCE INN
AMERIC

AC+RI
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3466 MISSION INN
RIVERSIDE, CA

DATE	DESCRIPTION
2020.07.17	SITE LIGHTING & PHOTOMETRICS

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PROJECT:
AC HOTELS BY MARRIOTT
Residence Inn
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RIVERSIDE
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RIVERSIDE, CA.

A circular logo with a thick black border. Inside the circle is a hammer with a diagonal black line through it, indicating that the document is preliminary and not intended for construction.

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EXTERIOR LIGHTING CUT SHEETS

SHEET NO.: LTG-2.0

