

SHEET NOTES

- EXISTING CIRCUIT INFORMATION SHOWN ON THE PLANS IS FOR REFERENCE ONLY. TRACE ALL EXISTING CIRCUITS AFFECTED BY THIS WORK TO CONFIRM SOURCE PANEL AND CIRCUIT NUMBERS.
- UPPERCASE LETTER DENOTES LUMINAIRE TYPE. LOWERCASE LETTER INDICATES CONTROL ZONE.
- CONNECT EXIT SIGNS AHEAD OF LIGHTING CONTROL UNLESS SPECIFICALLY NOTED OTHERWISE.
- EMERGENCY LUMINAIRES SHALL BE SWITCHED WITH THE REST OF THE LUMINAIRES IN THE ROOM OR AS INDICATED ON THE DRAWINGS BY LIGHTING CONTROL ZONE. PROVIDE ONE EMERGENCY TRANSFER RELAY PER CONTROL ZONE. RELAY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
- TO ACHIEVE THE INDICATED SEQUENCE OF OPERATION, PROVIDE ALL COMPONENTS REQUIRED FOR THE LIGHTING CONTROL SYSTEM, WHETHER INDICATED OR NOT. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION SCHEDULE FOR ADDITIONAL INFORMATION.
- PROVIDE DIMMERS COMPATIBLE WITH LED DRIVERS AND POWER SUPPLIES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPONENTS AND ACCESSORIES TO ACCOMPLISH COMPLETE DIMMING FUNCTIONALITY AS SHOWN ON PLANS AND NOTED IN THE LUMINAIRE SCHEDULE.
- FOR LIGHT DIMMING BRANCH CIRCUITS, PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT CURRENT CARRYING CONDUCTOR. CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX CURRENT CARRYING CONDUCTORS WITH PROPER DE-RATING AS REQUIRED BY NEC. PROVIDE FULL LENGTH STRIPING FOR DEDICATED NEUTRALS TO MATCH ASSOCIATED CURRENT CARRYING CONDUCTOR COLOR.
- LIGHTING CONTROLS COMMISSIONING SHALL COMPLY WITH IEC 2021, INCLUDING BUT NOT LIMITED TO COMMISSIONING DOCUMENTS, SYSTEM FUNCTIONAL TESTING, AND RECORD DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- EXISTING NORMAL AND EMERGENCY LIGHTING IN AREAS OUTSIDE OF SCOPE OF WORK SHALL REMAIN.
- CONTRACTOR SHALL ENSURE THAT AT COMPLETION OF WORK ALL LIGHT FIXTURES ARE IN WORKING CONDITION WITH OPERABLE LAMPS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK ABOVE CEILING AND SHALL NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF CEILING GRID.

KEY NOTES

- COORDINATE FINAL LOCATION OF LUMINAIRES TO AVOID CONFLICTS WITH OTHER TRADES.
- CONNECT NEW LUMINAIRES TO EXISTING LIGHTING CIRCUITS ON PANEL A SALVAGED DURING DEMOLITION OF THE OLD FLUORESCENT LIGHTING. LOAD IS REDUCED APPROXIMATELY 1118W PER LIGHTING CIRCUIT.
- NEW DUPLEX SERVICE RECEPTACLE IN THE CASH REGISTER AREA, PROVIDE NEW CIRCUITRY TO EXISTING BREAKER IN PANEL "LP1" AS INDICATED. SEE PANEL "LP1" REVISED PANEL SCHEDULE.

REFLECTED CEILING PLAN LEGEND

- EXISTING 4'x2' 1/8" WHITE ACOUSTIC TILE WITH SQUARE LAY-IN 15/16".
- EXISTING GYPSUM BOARD CEILING TO REMAIN
- STRUCTURE PAINTED EXPOSED
- NEW 8'- V-SHAPED T8 LED TUBE FIXTURE, REPLACING EXISTING LIGHTS SUSPENDED FROM EXISTING STEEL JOIST. MODEL : AR-T8V-BFT-100 OR APPROVED EQUAL.
- EXISTING 4x2 LED FLAT PANEL LIGHT - WHITE FRAME
- EXISTING EMERGENCY LIGHT WITH 90 MIN. BATTERY BACKUP.
- EXISTING EXIT SIGN WITH 90 MIN. BATTERY BACKUP.
- NEW DUPLEX SERVICE RECEPTACLE IN THE CASH REGISTER AREA, MOUNTED HORIZONTALLY IN 4" SQ. SURFACE BOX WITH COVERPLATE AND SURFACE CONDUIT. MOUNT RECEPTACLE AT 18" A.F.F. TO CENTERLINE OF RECEPTACLE.

Luminaire installation to comply with NEC 410.8

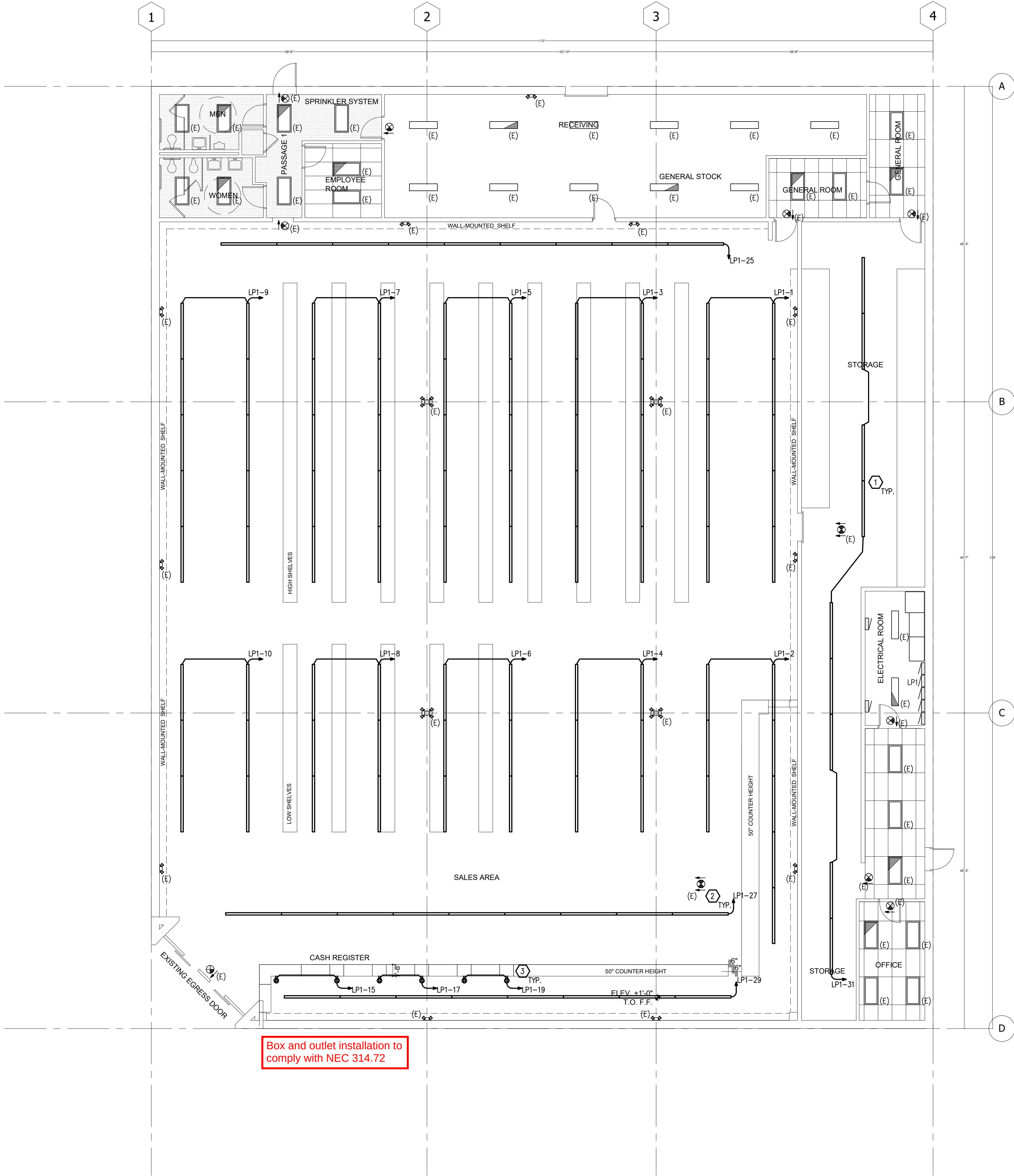
Code violations found during inspections are required to be corrected. Permit issuance does not grant approval of a code violation.

Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable (see 1-6). 2023 NEC 408.4

PANEL: LP1 (E)		VOLTAGE: 120/208 V.		TYPE: RPP				
FED FROM: MAIN PNL		3 PH		MOUNTING: SURFACE				
200 AMP MAIN RATED @ 80%		4 W.		PANEL COVER: (SEE SPECIFICATIONS)				
MLO AMP MAIN LUGS		60 HZ		NEUTRAL BUS: YES				
225 AMP BUS				GROUND BUS: YES ISOLATED GND: NO				
(SEE SPECIFICATIONS) BUSING				NOTE: 1. NEW LED LIGHTS SALES AREA				
(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS				2. GENERAL RECEPTACLES REGISTER AREA				
22KAIC				3.				
				4.				
NOTE	DESCRIPTION	CCT	BREAKER	CCT	DESCRIPTION	NOTE		
		VA	AMP / P	VA				
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	1 A 2	800	GENERAL SALES AREA LIGHTING	1	
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	3 B 4	600	GENERAL SALES AREA LIGHTING	1	
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	5 C 6	20 / 1	600	GENERAL SALES AREA LIGHTING	1
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	7 A 8	20 / 1	600	GENERAL SALES AREA LIGHTING	1
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	9 B 10	20 / 1	600	GENERAL SALES AREA LIGHTING	1
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	11 C 12	20 / 1	0	SPARE	
	PHOTO AREA LIGHTING	600	20 / 1	13 A 14	20 / 1	1080	OFFICE, VALUABLE RM, ELECT RM, LT	
2	FRONT CASH REGISTER	500	20 / 1	15 B 16	20 / 1	1080	GENERAL STOCK & RECEIVING LT	
2	FRONT CASH REGISTER	500	20 / 1	17 C 18	20 / 1	900	ELECTRICAL ROOM LIGHTING	
2	FRONT CASH REGISTER	500	20 / 1	19 A 20	20 / 1	900	PHARMACY LIGHTING	
	COSMETIC CORNICE	480	20 / 1	21 B 22	20 / 1	1080	PHARMACY LIGHTING	
	COSMETIC CORNICE	480	20 / 1	23 C 24	20 / 1	900	PHARMACY LIGHTING, WAITING ROOM	
1	GENERAL SALES AREA LIGHTING	900	20 / 1	25 A 26	20 / 1	1080	EMPLOYEE ROOM, BATHROOMS EF-8	
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	27 B 28	20 / 1	0	NIGHT LIGHTING	
1	GENERAL SALES AREA LIGHTING	1000	20 / 1	29 C 30	20 / 1	900	EMERGENCY LIGHTING	
1	STORAGE LED LIGHTING	900	20 / 1	31 A 32	15 / 1	540	EXHAUST FAN	
	COSMETIC CUBE LIGHTING	600	20 / 1	33 B 34	20 / 1	1260	LIGHTING NEW AREA	
	SPARE	0	20 / 1	35 C 36	20 / 1	900	GENERAL RECEPTACLES NEW AREA	
	SPARE	0	20 / 1	37 A 38	50 / 1	1200	208V NEW AREA	
	LPSP CONTACTOR	100	20 / 1	39 B 40	-- / 2	1200		
	SPARE	0	20 / 1	41 C 42	20 / 1	540	OUTSIDE BUILDING LIGHTING	
		0		A		0		
		0		B		0		
		0		C		0		

PANEL LOADING SUMMARY				
LOAD TYPE	PH A	PH B	PH C	TOTAL
INCANDESCENT	0	0	0	0 kVA
FLUORESCENT	7.78	8.7	7.32	23.8 kVA
RECEPTACLES	1.7	1.8	1.4	4.9 kVA
MOTORS	1.62	0	0	1.6 kVA
APPLIANCE	0	0	0	0 kVA
HEAT	0	0	0	0 kVA
COMPUTER	0	0	0	0 kVA
MISC.	0	0	0	0 kVA
-	0	0	0	0 kVA
TOTAL	11	11	9	30 kVA
PHASE BALANCE (%)				
A-B	100	B-C	82	C-A
PF				97
MIN PANEL AMPACITY				
		100		AMPERES

NEC DEMAND LOAD SUMMARY				
LOAD TYPE	KW	FACTOR	kVA	FACTOR
INCANDESCENT	0	@ 100%	= 0	@ 125%
FLUORESCENT	22.6	@ 95%	= 23.8	@ 125%
RECEPTACLES				
FIRST 10 kVA	4.7	@ 95%	= 4.9	@ 100%
REMAINDER	0	@ 95%	= 0	@ 50%
MOTORS				
LARGEST	0.4	@ 80%	= 0.5	@ 125%
REMAINDER	0.9	@ 80%	= 1.1	@ 100%
APPLIANCES	0	@ 80%	= 0	@ 100%
HEAT	0	@ 100%	= 0	@ 125%
COMPUTER	0	@ 75%	= 0	@ 100%
MISC.	0	@ 85%	= 0	@ 100%
-	0	@ 95%	= 0	@ 100%
0 % SPARE	0	@ 90%	= 0	@ 100%
TOTAL	29	KW	30	kVA



Box and outlet installation to comply with NEC 314.72

1 LIGHTING AND POWER PLAN
E101 SCALE: 1/8"=1'-0"



COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC

Project Title: WALGREENS SALES AREA LED LIGHTING UPGRADE

Project Type: Alteration

Construction Site: 12051 EAST MISSISSIPPI AVE
AURORA, Colorado 80012

Owner/Agent:

Designer/Contractor: Armando Garfo
The RMH Group
7258768971
agarfo@rmhgroup.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft²)	C Allowed Watts / ft²	D Allowed Watts
1.Sales Area (Retail/Sales Area)	10363	1.05	10881
2.Storage (Warehouse Storage Smaller, Hand-Carried Items)	1442	0.69	995
Total Allowed Watts =			11876

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Sales Area (Retail: Sales Area, 10363 sq.ft.) LED, T8, 8'- V-SHAPED T8 LED TUBE FIXTURE, Other:	1	108	100	10800
Storage (Warehouse Storage: Smaller, Hand-Carried Items, 1442 sq.ft.) LED, T8, 8'- V-SHAPED T8 LED TUBE FIXTURE, Other:	1	9	100	900
Total Proposed Watts =			11700	

Interior Lighting Passes

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Armando Garfo / Electrical Engineer

Name - Title

Signature

Date 12/09/2025

Project Title: WALGREENS SALES AREA LED LIGHTING UPGRADE

Data filename:

Report date: 12/09/25

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COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. Each requirement, the user certifies that a code requirement will be met and how that is documented, or that the exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

 |

Additional Comments/Assumptions:

1 | High Impact (Tier 1)

2 | Medium Impact (Tier 2)

3 | Low Impact (Tier 3)

Project Title: WALGREENS SALES AREA LED LIGHTING UPGRADE

Data filename:

Report date: 12/09/25

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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22]1	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern $\geq$ 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

 || C405.2.1.1 [EL18]1 | Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces $\leq$ 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces. | ☐Complies ☐Does Not ☐Not Observable ☐Not Applicable |

1 | High Impact (Tier 1)

2 | Medium Impact (Tier 2)

3 | Low Impact (Tier 3)

Project Title: WALGREENS SALES AREA LED LIGHTING UPGRADE

Data filename:

Report date: 12/09/25

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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4.1 [EL23]1	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.2 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 | High Impact (Tier 1)

2 | Medium Impact (Tier 2)

3 | Low Impact (Tier 3)

Project Title: WALGREENS SALES AREA LED LIGHTING UPGRADE

Data filename:

Report date: 12/09/25

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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.1 [F11]1	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 | High Impact (Tier 1)

2 | Medium Impact (Tier 2)

3 | Low Impact (Tier 3)

Project Title: WALGREENS SALES AREA LED LIGHTING UPGRADE

Data filename:

Report date: 12/09/25

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12/09/2025

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RMH GROUP

making a difference through engineeringsm

**Mechanical • Electrical
Industrial • Sustainability**

DATE: DEC 09, 2025

SCALE: 1/8"=1'-0"

DESIGN BY: AGF

DRAWN BY: AGF

APPROVED BY: AGF

PROJ. NO.: 21546

WALGREENS STORE - LIGHTING UPGRADE

12051 EAST MISSISSIPPI AVE, AURORA, CO 80012

LIGHTING COMCHECK

SHT. NO.

E701

REVISION

Created on 12/9/2025
File: RSN-1945656-2577352.dwg
User: agarfo
Plot: 12/9/2025
Plotted on 12/9/2025

 City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **sgolfobi**
Date: **Dec 16, 2025**
2021 INTERNATIONAL CODES & 2023 NEC

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