

QS LINK POWER REQUIREMENTS	
DEVICE	PDUS
QS DEVICES THAT SUPPLY PDU	
DIN RAIL POWER SUPPLY	+75
MYROOM DIN RAIL POWER SUPPLY	+30
QS PLUG-IN POWER SUPPLY, QS J-BOX POWER SUPPLY	+8
ENERGI SAVR NODE WITH ECOSYSTEM, ENERGI SAVR NODE WITH DALI, ENERGI SAVR NODE WITH T-SERIES TUNABLE-WHITE	+30
ENERGI SAVR NODE FOR 0-10 V, ENERGI SAVR NODE WITH SOFTSWTCH, ENERGI SAVR NODE FOR 0-10 V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWTCH (DIN RAIL)	+14
1 A MYROOM DIN RAIL POWER MODULE SWITCHING, 1 A MYROOM DIN RAIL POWER MODULE PHASE ADAPTIVE	+4
ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL)	+3
ENERGI SAVR NODE PHASE ADAPTIVE (DIN RAIL), QS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES	0
GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMELOCK	+3
LINK A : 0 LINKS B, C, D : +33 EACH	
QP2 QUANTUM LIGHTING HUB	LINKS A, B : +33 EACH
QP3 QUANTUM LIGHTING HUB	LINKS A, B : +33 EACH
TWO PROCESSOR LIGHTING HUB (QP5)	LINKS A, B, C, D : +33 EACH
SINGLE PROCESSOR LIGHTING HUB (QP5), 2-LINK PROCESSOR (QP-2L)	LINKS A, B : +33 EACH
1-LINK PROCESSOR LIGHTING HUB (QP6), 1-LINK PROCESSOR LIGHTING HUB (QP5), 1-LINK PROCESSOR (QP-1L)	LINKS A : +33 EACH
QS DEVICES THAT CONSUME PDU	
QS WALLSTATION (SETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIUM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE	-1
QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIUM)	-2
QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIUM ROOM THERMOSTAT	-3
GUESTROOM CONTROL UNIT	-8
SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM	
LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER	-0.5
ECOSYSTEM WALLSTATION	-1
LOS C SYSTEM OCCUPANCY SENSOR, HIGH BAY OCCUPANCY SENSOR	-2

NOTES ON WIRING

QS CONTROL LINK

THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC). THE SYSTEM WIRING ILLUSTRATED BY THIS DRAWING HAS BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. IF FOR ANY REASON THE SYSTEM IS TO BE WIRED DIFFERENTLY THAN WHAT IS SHOWN, PLEASE CONFIRM ALL DEVICE POWER REQUIREMENTS ARE MET (PLEASE REFER TO "QS LINK POWER REQUIREMENTS" FOR INDIVIDUAL DEVICE POWER REQUIREMENTS).

FOR QS CONTROL WIRE LENGTHS TOTALING LESS THAN 500 FT (153 M), USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM), OR GRX-PCBL-346S (4 CONDUCTOR PLENUM), OTHERWISE USE 2 #18 AWG (1.0 SQ MM) + 2 #22 AWG (0.5 SQ MM) TWISTED AND SHIELDED OR EQUIVALENT (BELDEN #9461). FOR QS CONTROL WIRE LENGTHS TOTALING UP TO 2,000 FT, USE GRX-CBL-46L (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (5 CONDUCTOR PLENUM). TOTAL QS CONTROL WIRE LENGTH MUST NOT EXCEED 2,000 FT (600 M).

WIRE GAUGE	MAX LOOP LENGTH
#18 AWG (1.0 SQ MM)	550 FT (167M)
#16 AWG (1.5 SQ MM)	900 FT (274M)
#14 AWG (2.5 SQ MM)	1,400 FT (426 M)
#12 AWG (4 SQ MM)	2,200 FT (670M)

NOTES FOR LED APPLICATIONS

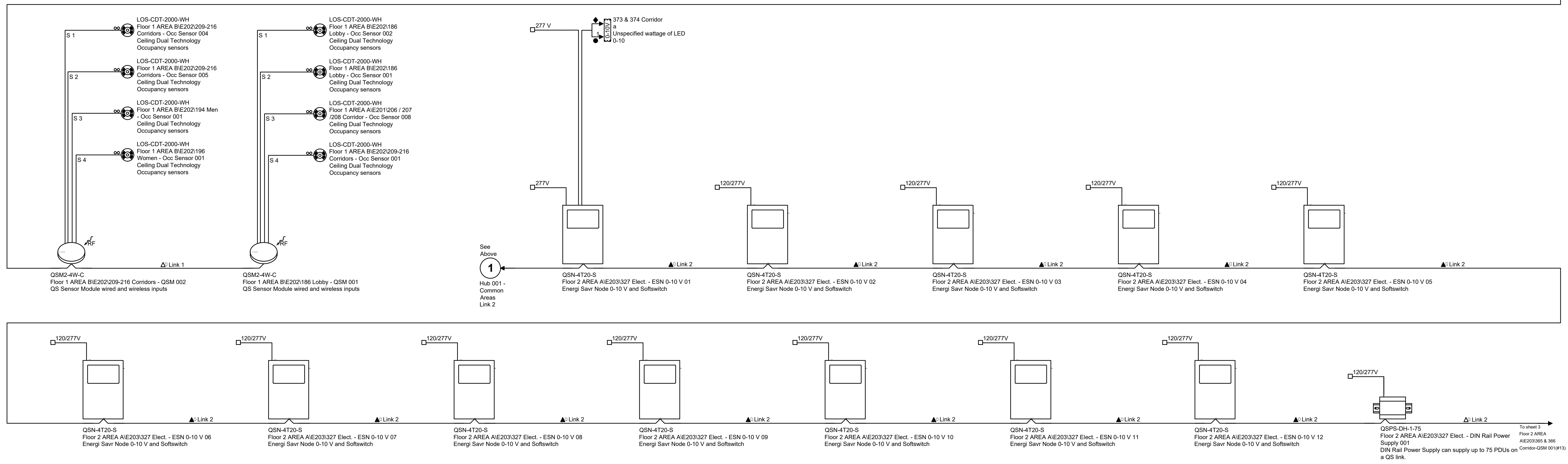
FOR ANY FORWARD/REVERSE PHASE, 3-WIRE, 0-10 V AND SWITCHING LED DRIVERS, PLEASE VERIFY THE NUMBER OF DRIVERS SUPPORTED ON EACH DEVICE. FOR MORE INFORMATION, PLEASE VISIT LUTRON'S LED CENTER OF EXCELLENCE (WWW.LUTRON.COM/LED).

WIRE LEGEND

- ▲ QS CONTROL LINK (CONNECT WIRES 1, 2, 3 AND 4)
- ▲ QS CONTROL LINK (CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE 2)
- ▼ PANEL CONTROL LINK (CONNECT WIRES 1, 2, 3, 4 AND 5)
- ▼ PANEL CONTROL LINK (CONNECT WIRES 1, 2, 3 AND 4. DO NOT CONNECT WIRE 5)
- ▶ PANEL CONTROL LINK (CONNECT WIRES 1, 3, 4 AND 5. DO NOT CONNECT WIRE 2)
- ◀ QS SIVDA SHADE CONTROL LINK*
- ▲ BELDEN CABLE 1387(LA)OR EQUIVALENT)
- NORMAL INPUT POWER 2 #12 AWG (4 SQ MM) + GROUND
- NORMAL-EMERGENCY INPUT POWER 2 #12 AWG (4 SQ MM) + GROUND
- ⊙ 3 PHASE WIRE INPUT POWER, 4 #12 AWG (4 SQ MM) + GROUND
- 2 #12 AWG (4 SQ MM) + GROUND
- 3 #12 AWG (4 SQ MM) + GROUND
- ◆ 0-10 V SIGNAL; 2#18AWG (1.0 SQ MM)
- ⊙ 2#18 AWG (1.0 SQ MM)
- ∞ 3#18 AWG (1.0 SQ MM)
- ◇ ECOSYSTEM BUSLOOP*
- ▶ DALI LOOP
- ▶ T-SERIES TUNABLE-WHITE LOOP
- ✕ LUTRON SENSOR CABLE C-CBL-5228 OR USE 4#22 AWG (1.0 SQ MM)
- ✕ LUTRON SENSOR CABLE C-CBL-5228 OR USE 3#22 AWG (1.0 SQ MM)
- DMX CABLE USE LUTRON GRX-CBL-DMX-250/GRX-CBL-DMX-500 OR BELDEN #9726 (NON-PLENUM) OR BELDEN #9726 (PLENUM) OR DURAFLEX 2294 W/VA CABLE
- ETHERNET CABLE, CAT5E OR BETTER CABLE FOR LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (NOT PROVIDED BY LUTRON). 328 FT (100 M) MAXIMUM RUN.
- FIBER OPTIC CABLE FOR LUTRON NETWORK TERMINATED WITH APPROPRIATE FIBER OPTIC CONNECTORS (NOT PROVIDED BY LUTRON). REQUIRES DEDICATED FIBER OPTIC LINK (SINGLE-MODE OR MULTI-MODE)
- RF CONNECTION
- WIRED CONNECTION

Refer to System Ethernet Link Connection Report

QPS-2L-POE Floor 2 AREA AIE203\327 Elect. Hub 001 - Common Areas Atlanta 2-Link Processor Panel with Integral POE switch

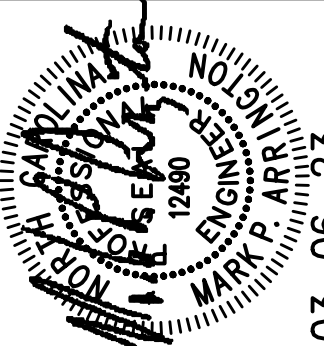


Floor 2 AREA B

Floor 2 AREA A

1 CONTROL SYSTEMS ETHERNET LINK CONNECTION NO SCALE

2 CONTROL SYSTEMS ONE-LINE NO SCALE



REVISION DATES	DATE	BY	DESCRIPTION
22-168	03.06.23	MPA	

CLEVELAND COUNTY LEGRAND CENTER LIGHTING

CONTROL DEVICES ONE-LINE & ETHERNET CONNECTION