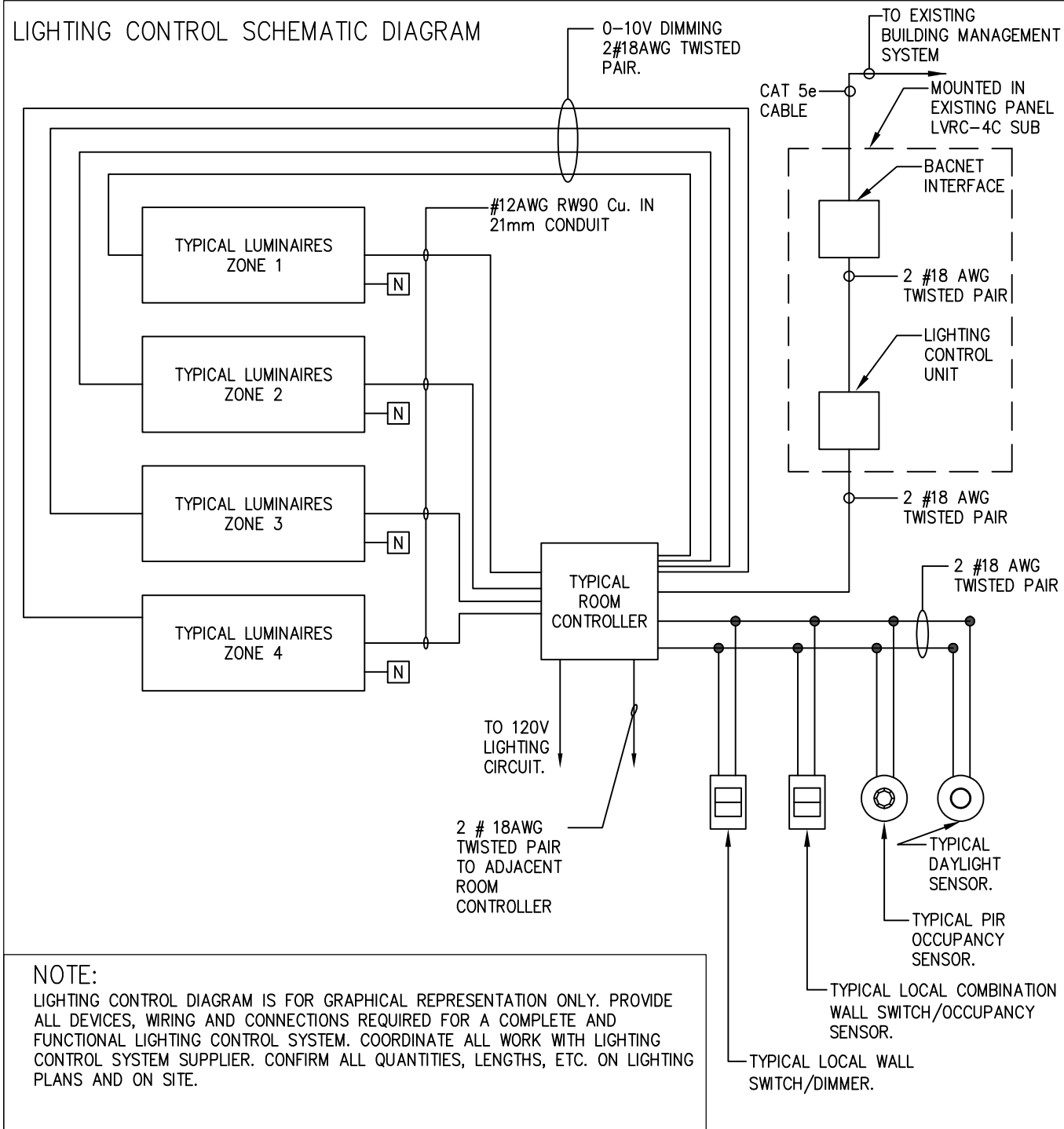


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- ZONE OPERATION:
- AUTO ON/OFF CONTROL WITH 15 MINUTE TIME OUT VIA CEILING MOUNTED OCCUPANCY SENSOR.
  - AUTO ON/OFF CONTROL WITH 15 MINUTE TIME OUT VIA LOCAL WALL BOX COMBINATION CONTROL.
  - AUTO ON/OFF MANUAL DIMMING CONTROL WITH 15 MINUTE TIME OUT VIA LOCAL WALL BOX COMBINATION CONTROL.
  - MANUAL ON/OFF VIA LOCAL WALL SWITCH. VACANCY SENSING VIA CEILING MOUNTED OCCUPANCY SENSOR.
  - MANUAL ON/OFF VIA LOCAL WALL SWITCH.
  - OPERATION SIMILAR TO OPERATION #1 WITH AUTO DIMMING VIA CEILING MOUNTED PHOTOCELL.

NOTES:  
CONFIRM ALL ZONE OPERATION WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMISSIONING OF SYSTEM.

NOTES:  
PROVIDE NEW DOUGLAS 24 RELAY LIGHTING CONTROL CABINET. PROVIDE ALL REQUIRED PROGRAMMING AND HARDWARE TO MAKE THE SYSTEM FULLY OPERATIONAL.



- SYSTEM DESCRIPTION
- ELECTRICAL CONTRACTOR TO SUPPLY, INSTALL, WIRE AND CONNECT ROOM CONTROLLER TYPE LIGHTING CONTROL SYSTEMS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ENTIRE INSTALLATION WITH ALL OTHER TRADES.
  - SYSTEM TO CONSISTS OF MULTIPLE LOCALIZED ROOM CONTROLLER C/W INTEGRAL RELAYS AND DIMMING CHANNELS. ALL ROOM CONTROLLERS TO BE CONNECTED TO NEW LIGHTING CONTROL UNIT INSTALLED IN EXISTING DOUGLAS RELAY PANEL.
  - PROVIDE NEW LIGHTING CONTROL UNIT AND CONNECT TO NEW BACNET INTERFACE BACK TO EXISTING. PROVIDE ALL REQUIRED SOFTWARE, HARDWARE AND WIRING FOR COMPLETE OPERATIONAL SYSTEM.
  - CONTROL SYSTEM TO BE AS MANUFACTURED BY DOUGLAS TO INTERFACE TO EXISTING.
  - PROVIDE ALL REQUIRED WIRING AND HARDWARE/SOFTWARE REQUIRED FOR THE CONTROL OF THE FAN TERMINAL UNITS (FTU) FROM THE ASSOCIATED OCCUPANCY SENSOR WITHIN EACH SPACE. COMMUNICATION TO THESE TO BE VIA BACNET PROTOCOL. COORDINATE ALL WORK WITH CONTROL CONTRACTOR.
  - SHOULD ANY AREA SERVED BY A FAN COIL (FC) BE OCCUPIED. SIGNAL TO BE SENT TO THE BUILDING MANAGEMENT SYSTEM FOR HVAC SETBACKS. COORDINATE ALL WORK WITH CONTROLS CONTRACTOR.

- PARTS DESCRIPTIONS
- ROOM CONTROLLER: LOCALIZED LIGHTING CONTROL UNIT C/W FOUR (4) LIGHTING RELAYS AND FOUR (4) 0-10V DIMMING CHANNELS.
- ON/OFF SWITCHES: THE ON/OFF SWITCHES COME IN 1 TO 8 BUTTON MODULES AND BE C/W LED INDICATORS TO SHOW STATUS OF THE CONTROLLED ZONES. SWITCHES TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS.
- DIMMER SWITCHES: THE DIMMER SWITCHES TO HAVE UP/DOWN BUTTONS TO CONTROL OUTPUTS AND BE C/W LED ALONG EDGE TO INDICATE THE OPERATING LEVEL OF THE CONTROLLED ZONE.
- OCCUPANCY SENSOR: OCCUPANCY SENSORS TO BE CEILING MOUNTED PASSIVE INFRARED (PIR) TYPE. SENSOR TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS.
- DAYLIGHT SENSOR: DAYLIGHT SENSOR TO BE CEILING MOUNTED INDOOR TYPE. SENSOR TO CONNECT DIRECTLY TO THE 2-CONDUCTOR LOW VOLTAGE NON-POLARIZED BUS. SENSOR TO BE CAPABLE OF MEAS