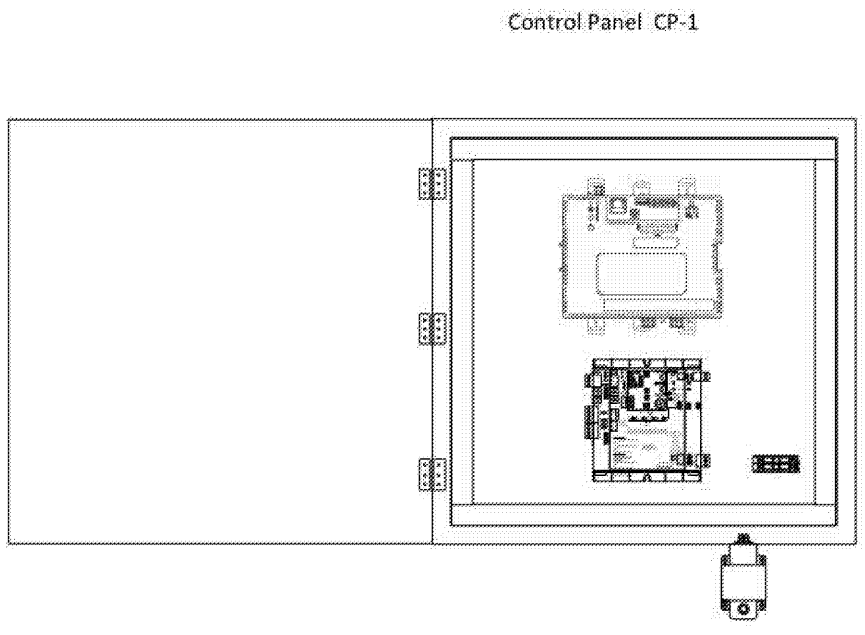
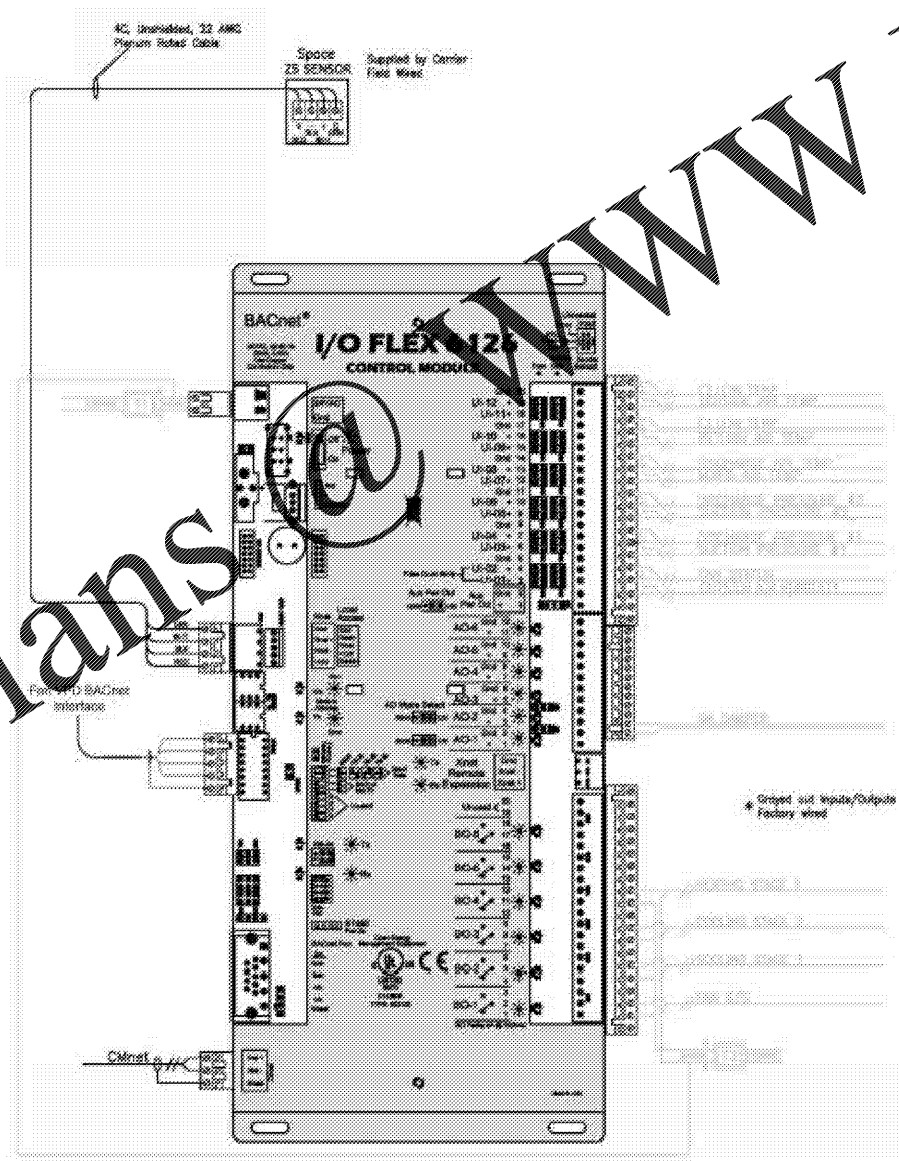


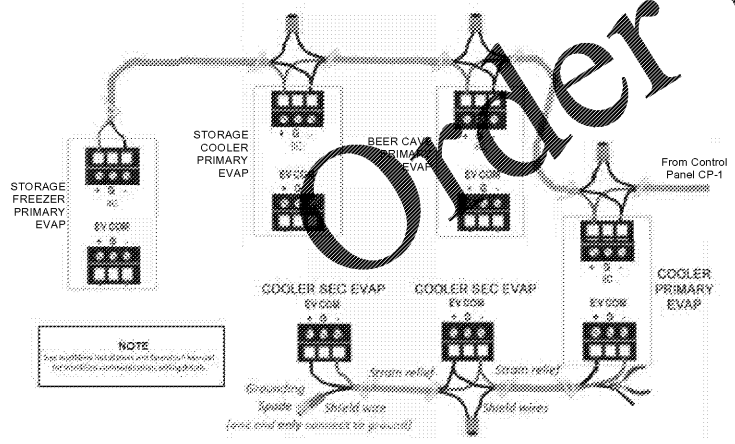
4 LIGHTING CONTROLS CONNECTION DIAGRAM
1'-0" = 1'-0"



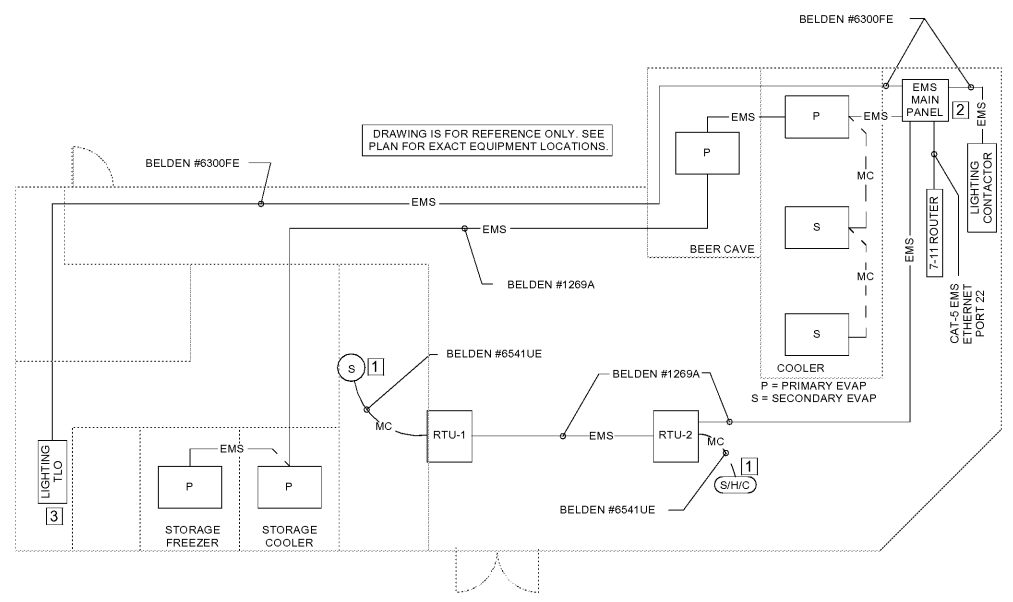
5 EMS CONTROL PANEL
1'-0" = 1'-0"



2 RTU CONNECTION DIAGRAM
1'-0" = 1'-0"



3 REFRIGERATION SYSTEM CONNECTION DIAGRAM
1'-0" = 1'-0"



1 EMS FIELD WIRING DIAGRAM
1/8" = 1'-0"

DRAWINGS FOR INDICATION PURPOSES ONLY.
NUMBER AND TYPE OF UNITS TO BE COORDINATED.
INSTALLATION OF EMS BY AUTOMATED LOGIC.

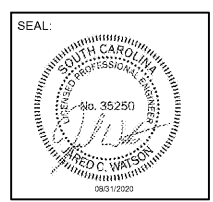
- CONTRACTOR SCOPE OF WORK**
- EMS CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SENSOR LOCATIONS MEET ALL GUIDELINES AS DEFINED IN THE "WALL MOUNTED SENSOR INSTALLATION" SECTION OF THE "EMS PROCESS AND INSTALLATION MANUAL".
 - MECHANICAL CONTRACTOR TO MOUNT / INSTALL SENSOR AND SENSOR WIRING.
 - MECHANICAL CONTRACTOR TO INSTALL ALL END DEVICES SHIPPED LOOSE WITH AIR HANDLING EQUIPMENT. THIS MAY INCLUDE CURRENT TRANSFORMERS, OUTDOOR AIR SENSORS, AND MIXED AIR SENSORS. WIRE END DEVICES TO ID FLEX CONTROLLER.
- COORDINATE ROUTING AND FINAL LOCATIONS OF COMMUNICATIONS AND CONTROLS WIRING BETWEEN MECHANICAL, ELECTRICAL AND LOW VOLTAGE CONTRACTOR.
 - ALL EXTERIOR AND BELOW CEILING POWER, CONTROLS AND COMMUNICATIONS WIRING TO BE ROUTED IN CONDUIT. INSTALL CONDUIT FOR INTERIOR CONTROL AND COMMUNICATION WIRING ONLY IF REQUIRED BY AHJ.
 - BELDEN CABLE NUMBERS ARE SHOWN ON WIRING DIAGRAM FOR CABLE REQUIREMENTS (SHIELDING, FLEMING RATING, AWG, ETC.). CONTRACTOR TO PROVIDE BELDEN CABLE AS SHOWN, OR CONTACT BEST WIRE AND CABLE FOR APPROVED ALTERNATE CABLE. CONTACT PATRICK HAMACK AT BEST WIRE AND CABLE (877) 658-9988 FOR QUESTIONS ABOUT CABLE REQUIREMENTS.
 - PROVIDE ALL FIELD WIRING BETWEEN HVAC AND REFRIGERATION EQUIPMENT AS SHOWN IN 3EMS 1.0
 - INSTALL BACK BOXES WITH CONDUIT STUB UP FOR ZONE SENSORS. DEVICES TO BE PROVIDED BY CARRIER AND AUTOMATED LOGIC CORPORATION (ALC).
 - PROVIDE FINAL INSTALLATION AND CONNECTION OF CONTROL WIRING TO LIGHTING CONTROL SYSTEM INCLUDING OVERRIDE SWITCH, HVAC AND REFRIGERATION EQUIPMENT, ZONE SENSORS, AND EMS SYSTEM.
 - MOUNT AND PROVIDE POWER TO THE MAIN PANEL.
 - ESTABLISH COMMUNICATION LINK BETWEEN THE MAIN PANEL AND BUILDING ETHERNET SWITCH.
 - CONTACT THE EMS SYSTEM MANUFACTURER AT (866) 390-4275 AND PROVIDE STARTUP OF MAIN PANEL, LIGHTING CONTROLS, HVAC AND REFRIGERATION UNITS.

KEYNOTES

- COORDINATE LOCATION WITH MECHANICAL.
- REFER TO 4EMS1.0 FOR TLO, HUMIDITY SENSOR AND LIGHTING CONTACTOR WIRING DETAIL. REFER TO 1/EMS1.0 FOR SMART CONTROLLER AND EVAPORATOR WIRING DETAIL.
- LIGHTING OVERRIDE SWITCH. INSTALL ON BACK WALL ABOVE WORK SURFACE OF WORKSTATION LOCATED IN BACK ROOM.

SYMBOL	DESCRIPTION
TLO	LIGHTING OVERRIDE SWITCH
S	TEMPERATURE SENSOR
SH/C	COMBO TEMPERATURE, HUMIDITY, AND CARBON DIOXIDE (CO2) SENSOR
- EC -	PROVIDED BY ELECTRICAL CONTRACTOR
- MC -	PROVIDED BY MECHANICAL CONTRACTOR
- EMS -	PROVIDED BY EMS CONTRACTOR

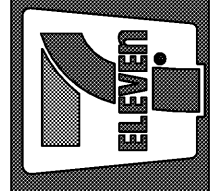
JARED C. WATSON, PE
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ROGERS, AR 72758
479-877-3188
SC LICENSE # 35250



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Submissions:

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3200 HACKBERRY ROAD, IRVING, TEXAS 75063
7-ELEVEN #1045634
1401 COVENTRY ROAD
MYRTLE BEACH, SC 29575



JOB NUMBER: 20022
CHECKED BY:
DRAWN BY:
DATE: 08/31/20

TITLE
ENERGY MANAGEMENT SYSTEM

SHEET:
EMS1.0