

SCALE



CONSULTANT

A REMODEL FOR:
KROGER GA-214
3139 US HWY 278, N.E.
COVINGTON, GA

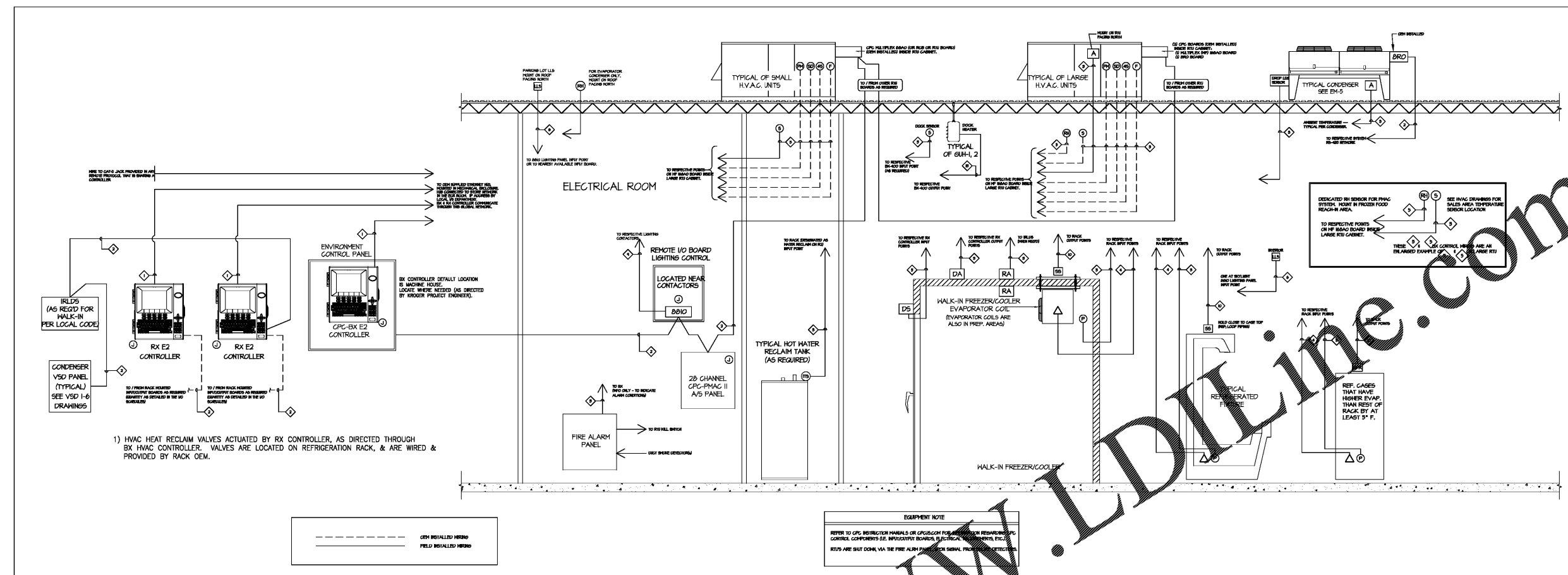
PROJECT: KROGER ATLANTA
DATE: 04-01-2019
CONSTRUCTION SET

**CPC CONTROLS
INSTALLATION
TEMPLATE**

NO.	REVISIONS

MARK	DATE	DESCRIPTION

PROJECT NO: 19085
C/D DWG FILE: GA-214 EM1
DRAWN BY: WSM
CHKD BY: HCK
EM1
SHEET NO.



1) HVAC HEAT RECLAIM VALVES ACTUATED BY RX CONTROLLER, AS DIRECTED THROUGH BK HVAC CONTROLLER. VALVES ARE LOCATED ON REFRIGERATION RACK, & ARE WIRED & PROVIDED BY RACK OEM.

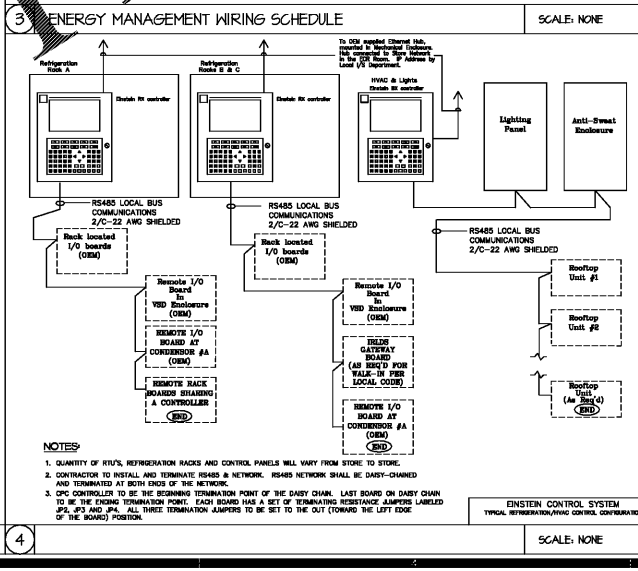
EQUIPMENT NOTE
REFER TO CPC REFRIGERATION MANUALS OR CPC/DAKOTA FOR WIRING REQUIREMENTS FOR REFRIGERATION CONTROL COMPONENTS (E. INDUCTIVITY BOARD, ELECTRICAL TERMINALS, ETC.). RVS ARE SHUT DOWN VIA THE FIRE ALARM SIGNAL FROM THE FIRE DETECTION SYSTEM.

1 ENERGY MANAGEMENT SYSTEM REQUIREMENTS

Controls Takeoff	Refrigerant Leak Detection	Lighting Dimming Control	Building Control																																																																																			
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3 ENERGY MANAGEMENT WIRING SCHEDULE

KEY NOTE	DESCRIPTION	PLENUM	NON-PLENUM
◆	WALK CONNECTION	BELDEN RSOOP R24-B CATEGORY-5 CABLE OR APPROVED EQUAL	BELDEN RSOOP R24-B CATEGORY-5 CABLE OR APPROVED EQUAL
◇	RS-485 NETWORK	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL
◇	ANALOG/DIGITAL TEMPERATURE SENSORS/PT	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL
◇	DEFROST TERMINATION SENSOR	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL
◇	RELATIVE HUMIDITY SENSOR	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL
◇	LIGHT LEVEL SENSOR	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL
◇	OUTDOOR TEMPERATURE SENSOR (RSCP LBS SENSOR)	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL
◇	NOT USED		
◇	LIGHTING CONTROL	RS-485 NETWORK (MULTI-CONDUCTOR CABLE RATES)	24 AWG 100 FT PER LIGHTING CONTACTOR
◇	REFRIGERATION SOLENOID VALVE	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL	BELDEN RSOOP R22-2 SHIELDED CABLE OR APPROVED EQUAL
◇	NOT USED		
◇	HVAC DAMPING CONTROL	RS-485 NETWORK (MULTI-CONDUCTOR CABLE RATES)	24 AWG 100 FT PER LIGHTING CONTACTOR
◇	WWT HEATER CONTROL	RS-485 NETWORK (MULTI-CONDUCTOR CABLE RATES)	24 AWG 100 FT PER LIGHTING CONTACTOR
◇	LINE VOLTAGE CONTROL	RS-485 NETWORK (MULTI-CONDUCTOR CABLE RATES)	24 AWG 100 FT PER LIGHTING CONTACTOR



NOTES
1. QUANTITY OF RVS, REFRIGERATION RACKS AND CONTROL PANELS WILL VARY FROM STORE TO STORE.
2. CONTRACTOR TO INSTALL AND TERMINATE RS485 NETWORK. RS485 NETWORK SHALL BE DASH-CHAINED AND TERMINATED AT BOTH ENDS OF THE NETWORK.
3. CPC CONTROLLER TO BE THE STARTING TERMINATION POINT OF THE DASH CHAIN. LAST BOARD ON DASH CHAIN TO BE THE ENDING TERMINATION POINT. EACH BOARD HAS A SET OF TERMINATING RESISTANCE ADJUSTERS LABELED J1, J2 AND J3. ALL THREE TERMINATION ADJUSTERS TO BE SET TO THE OUT (TOWARD THE LEFT EDGE OF THE BOARD) POSITION.

7 GENERAL SYMBOLS

SYMBOL	DESCRIPTION	KEY #
△	REFRIGERATION CREDIT DEMAND	---
◇	DEFROST TERMINATION THERMOSTAT	CEM
○	ANALOG TEMPERATURE SENSOR	CEM
◇	ANALOG TEMPERATURE SENSOR (RAMP)	EPD (CRD-0000000)
○	ANALOG RELATIVE HUMIDITY SENSOR	EPD (CRD-0000000) (RHO)
○	ANALOG RELATIVE HUMIDITY SENSOR	EPD (CRD-0000000) (RHO)
LL	LIGHT LEVEL SENSOR	EPD (CRD-0000000) (RHO)
A	ANALOG TEMPERATURE SENSOR (RAMP)	CRD-0000000 (CRD-0000000)
DS	DOOR SWITCH	CEM
PS	PISTON PISTON	CEM
SD	SENSOR DETECTOR	CEM
◆	CLEAN POWER FIELD INSTALLED BY EG	---
◆	KEY NOTE SYMBOL	---
DA	LOCAL DOOR ALARM	---
RA	LOCAL REFRIGERATION ALARM	---
TM	TEMPERATURE SENSOR (RAMP)	EPD (CRD-0000000)
RS	RS-485 NETWORK AIR TEMPERATURE SENSOR	NA SUPPLIED BY RVS VENDOR
RS	RS-485 NETWORK AIR TEMPERATURE SENSOR	NA SUPPLIED BY RVS VENDOR
F	AIR FLOW SENS. PROGRAM SWITCH	NA SUPPLIED BY RVS VENDOR
SE	SECTION STOP SIGNAL	---
EV	EVAPORATOR PRESSURE REGULATOR	---

8 ENERGY MANAGEMENT NOTES

1. THE EMC SHALL BE RESPONSIBLE FOR SUPERVISING THE COMPLETE INSTALLATION OF THE ENERGY MANAGEMENT SYSTEM. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO THE BOARD OF PROGRAMS AND PROGRAMMING ALIGNMENT OF THE DRIVE CPC CONTROL SYSTEM, INCLUDING REFRIGERATION, HVAC AND LIGHTING CONTROL.

2. THE EMC SHALL PROVIDE ALL CONTROLS AND PROGRAMS TO THE ENERGY MANAGEMENT SYSTEM. THE ENERGY MANAGEMENT SYSTEM SHALL BE RESPONSIBLE FOR SUPERVISING THE COMPLETE INSTALLATION OF THE ENERGY MANAGEMENT SYSTEM. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO THE BOARD OF PROGRAMS AND PROGRAMMING ALIGNMENT OF THE DRIVE CPC CONTROL SYSTEM, INCLUDING REFRIGERATION, HVAC AND LIGHTING CONTROL.

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THIS SHEET FOR REFERENCE ONLY
SEE PLANS FOR REQUIREMENTS SPECIFIC TO THIS PROJECT