

3 PARTIAL EMS ONE-LINE DIAGRAM

DIMMING CONTROL INFORMATION

- CONNECT SUSPENDED BUNKER LIGHTING ELDP TO IOM2-EDC1A OUTPUT 6 & INPUT 6 SETPOINTS:
6AM-10PM - ELDP - 9 VOLTS
10PM-6AM - ELDP - 7VOLTS

PROVIDE CONDUIT, FITTINGS, WIRE-TIES, CONNECTORS, LABELS, AND ANY OTHER MISC. PARTS NEEDED TO INSTALL AND START THE SYSTEM.

OWNER WILL FURNISH ALL MAJOR EMS DEVICES (INCLUDING 24 VOLT TRANSFORMERS AND RELAYS).

WIRE LEGEND

WIR-1010 (TAN CABLE 18-2, 20-2 TWISTED PAIR)
WIR-2020 (BLUE CABLE 22-2 TWISTED PAIR)
BELDEN 8719 (16-2 TWISTED PAIR)
BELDEN 8781 (22-2 TWISTED PAIR)
BELDEN 8771 (22-3 TWISTED PAIR)
BELDEN 9418 (18-4 W/RAIN GROUND)
BELDEN 1120A (18-3 TWISTED PAIR)

NOTES:

- ALL CABLE WIR-2020 UNLESS NOTED OTHERWISE
- ALL CABLE FURNISHED AND INSTALLED BY EMS CONTRACTOR.

ON/OFF CONTROL INFORMATION

DESCRIPTION	TYPE	PANEL/CCT	BRKR POLES	BRKR TYPE	ON/OFF OUTPUT	DIM OUTPUT	DIM INPUT	ON/OFF PROGRAMMING	DIMMING PROGRAMMING
SUSPENDED PRODUCE STRIP LIGHTING	POWER SWITCHING	H1P2-23	1	EXISTING	SQD-H1P2	N/A	N/A	24/7 ON	N/A
SUSPENDED PRODUCE CYLINDER LIGHTING	POWER SWITCHING	H1P2-21	1	EXISTING	SQD-H1P2	N/A	N/A	24/7 ON	N/A
SUSPENDED BUNKER LIGHTING	POWER SWITCHING	H1P2-10	1	EXISTING	SQD-H1P2	IOM2-EDC1A-5	IOM2-EDC1A-6	24/7 ON	24/7 - 0V

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR ENERGY MANAGEMENT SYSTEMS, SEND E-MAIL TO [KERN@WALMART.COM](mailto:kern@walmart.com). EMAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. THEN FOLLOW UP E-MAIL TO NERBY@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

GENERAL EMS NOTES

- TEMPERATURE AND CO2 SENSOR MOUNTING: PROVIDE 1/2" CONDUIT AND INSTALL EMS CABLE FROM SENSOR TO CONTROL MODULE. MOUNT SENSOR ON BOX. ALL SENSORS TO BE MOUNTED AT 84" UNLESS NOTED OTHERWISE. SENSORS ON SALES FLOOR SHALL BE MOUNTED ON THE FRONT OF THE COLUMN. DO NOT INSTALL SENSORS IN HVAC SUPPLY AIR PATH OR IN DIRECT SUNLIGHT. REF MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
 - GYPSUM BOARD WALLS: PROVIDE A 4" SQUARE RECESSED BOX WITH A SINGLE GANG PLASTER RING FLUSH MOUNTED VERTICALLY.
 - BLOCK WALLS AND COLUMNS: PROVIDE A 2"x4" BOX SURFACE MOUNTED VERTICALLY.
 - INSULATE BEHIND SENSORS MOUNTED ON EXTERIOR WALLS WITH 1/2" POLYSTYRENE SPACER.
 - MOUNT CO2 SENSORS 8" ABOVE TEMPERATURE SENSORS.
- TERMINATIONS SHALL BE MADE IN ACCORDANCE WITH EMS SUPPLIER INSTALLATION INSTRUCTIONS. COIL OR UNLIS (WIRES) SHALL BE EXPOSED AT THE APPLICATION OF HEAT SHRINK.
- CABLE: PROVIDE CABLE ACCORDING TO DRAWING. DEVIATION FROM DRAWING WILL BE ACCEPTED. CABLES SHALL HAVE EACH END FIELD INDICATED WHERE THE PRECISE END TERMINATION POINTS SHALL BE INSTALLED IN OR CABLE TRAY IN THESE AREAS OF BUILDING.

MINOR CHANGES IN MATERIALS OR TERMINATION POINTS SHALL INCREASE CONTRACTOR COST.

ROUTE EMS CONDUITS IN SALES AREA CONCEALED (IN WALLS, UNDER RACKS, UNDER CHASES). PROVIDE A TRANSITION FROM RUSAB EMS CONDUIT TO SMT OR FLEX. EMS CONDUIT SHALL BE RUN IN CONDUIT FULL LENGTH. BENEATH REFRIGERATED CASES, EMS CABLES AT BAR JOIST LEVEL IN THE STOCKROOM CAN BE EXPOSED.

DEMOLITION: COORDINATE WITH ARCHITECTURAL DEMOLITION PLANS. EXTENT OF EMS DEMOLITION, REMOVE CONDUIT AND WIRES ALL THE WAY BACK TO ORIGINATING JUNCTION BOXES OR DEVICES. DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS.
- EMS CONTRACTOR SHALL PROVIDE ASSISTANCE TO THE EMS SUPPLIER ON PERFORMING EQUIPMENT TESTS ON POWER SWITCHING PANELS AS NECESSARY.

STIPULATION FOR THE CONTRACTOR TO REVIEW AND APPROVE THE DEMOLITION PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

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ISSUE BLOCK

NO.	DESCRIPTION	DATE

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This document should not be considered a certified document NOT FOR CONSTRUCTION

EMS SYMBOLS

AHU C	AHU CONTROLLER	ES09
AHU S	AHU TEMRH SENSOR	
ALS	ANALOG LIGHT SENSOR	
ETM	ELECTRONIC THERMOSTAT MODULE	
IDS	INDOOR DEWPOINT SENSOR	
IHS	INDOOR HUMIDITY SENSOR	
ITS	INDOOR TEMPERATURE SENSOR	
ODS	OUTDOOR DEWPOINT SENSOR	
OTS	OUTDOOR TEMPERATURE SENSOR	
S-X	WALL TEMPERATURE SENSOR	
UH	UNIT HEATER TEMPERATURE SENSOR	
RTUC	ROOFTOP UNIT CONTROLLER	
BAP	BUILDING ALARM PANEL	
CO2	CARBON DIOXIDE SENSOR	
LINGO XE	BUILDING EMS CONTROLLER	
FDI	FLUORESCENT DIMMER INTERFACE	
HIR	HUMIDITY INTERFACE RELAY	
IAC	INTERFACE ANALOG OUTPUT	
IFP	INTERFACE PANEL	
ICM	INPUT/OUTPUT MODULE	
IR	INTERFACE RELAY	
CR	CONTACTOR	
MI-NO	AHU INTERFACE MODULE AND/OR IO MODULE	
PLM	PHASE LOSS MONITOR	
PSOV	POWER SWITCHING OVERRIDE PANEL	
PSP	POWER SWITCHING PANEL	
ROP	REMOTE OVERRIDE PANEL	
ELDIP	ECLIPSE LIGHT DIMMING PANEL	
UCM	UNITARY CONTROL MODULE	
XCM 2GR	BUILDING EMS CONTROLLER	
NOS	NIGHTTIME OVERRIDE SWITCH	
S	MOMENTARY PUSH BUTTON SWITCH	
---	NEW EQUIPMENT	
---	EXISTING EQUIPMENT	
---	FACTORY INSTALLED EQUIPMENT	
---	EQUIPMENT TO BE DEMOLISHED	

EMS EQUIPMENT SALVAGE REQUIREMENTS

12.10.14
11 DEMOLISHED HVAC EMS EQUIPMENT SHALL BE RETURNED TO WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER. EQUIPMENT TO BE RETURNED INCLUDES: EXECUTIVE CONTROLLER(S), IOM(S), CIM(S), COM(S), ETC. PROVIDE DOCUMENTATION FOR ALL EQUIPMENT REMOVED IN ACCORDANCE WITH SPECIFICATIONS AND REQUIRED CLOSE-OUT DOCUMENTS.

NOTE: ALL WORK ON THIS SHEET IS TO BE COMPLETED BY A WAL MARTH APPROVED CONTRACTOR.

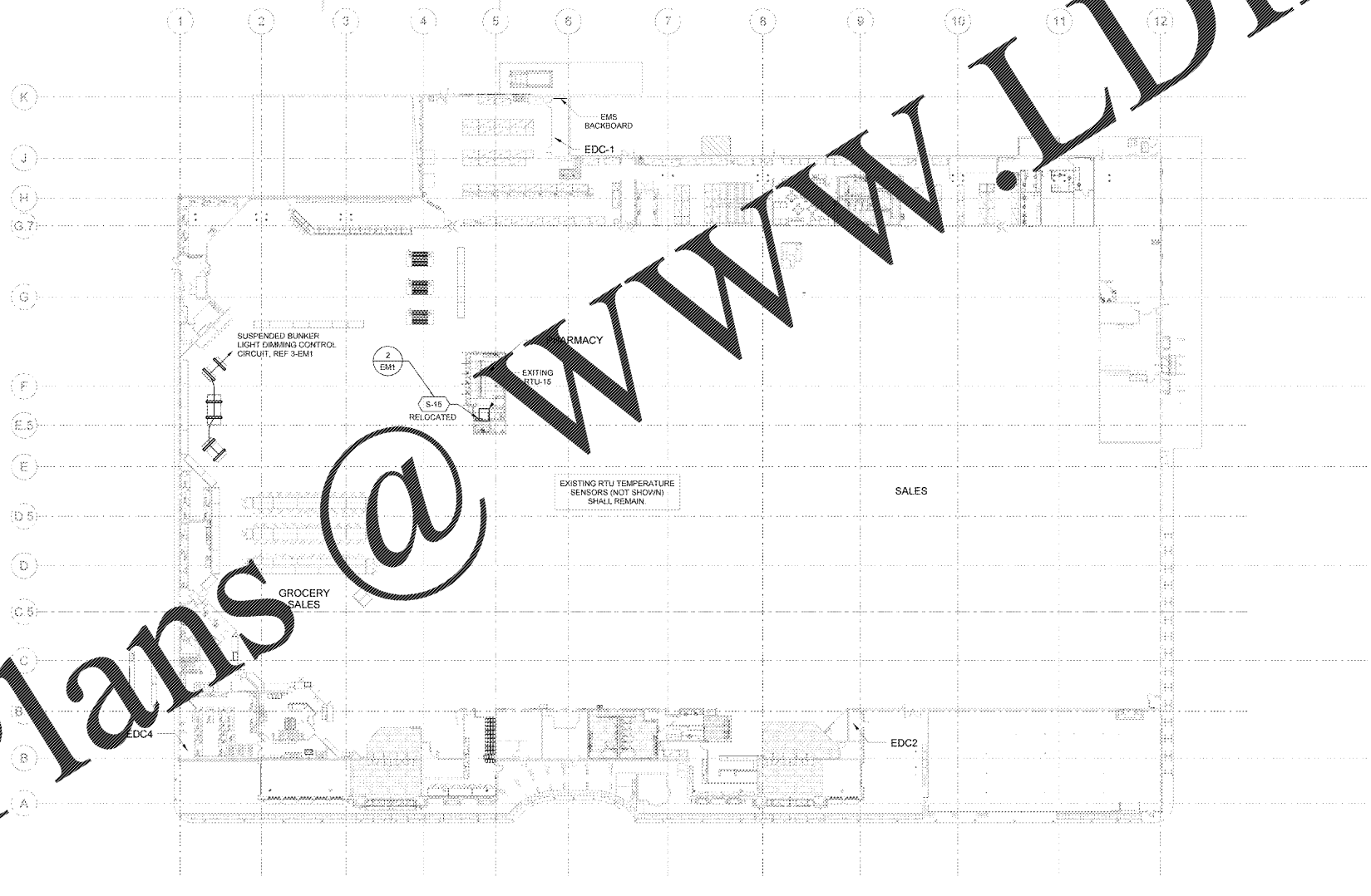
EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

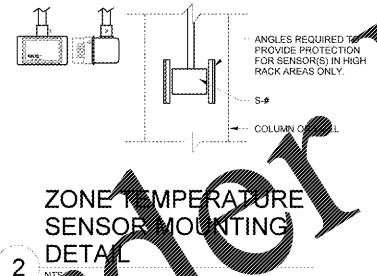
ENERGY MANAGEMENT PLAN

NOVOT

SHEET: EM1



1 ENERGY MANAGEMENT PLAN
1" = 30'-0"



2 ZONE TEMPERATURE SENSOR MOUNTING DETAIL

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