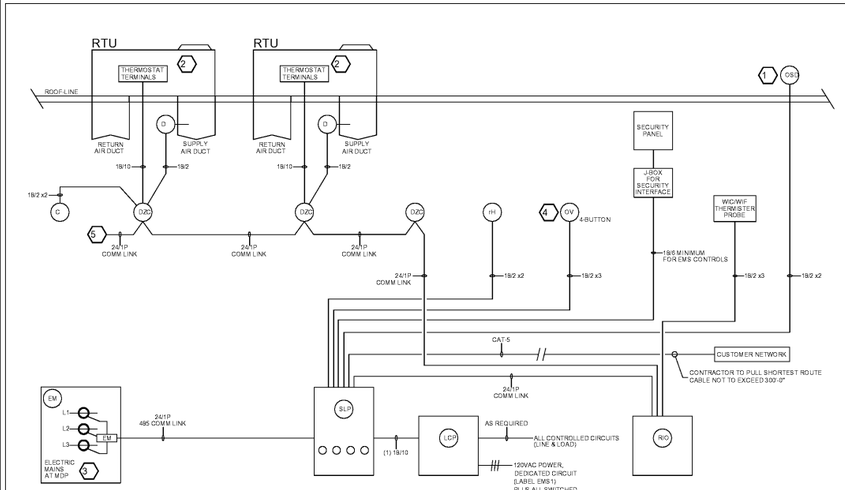
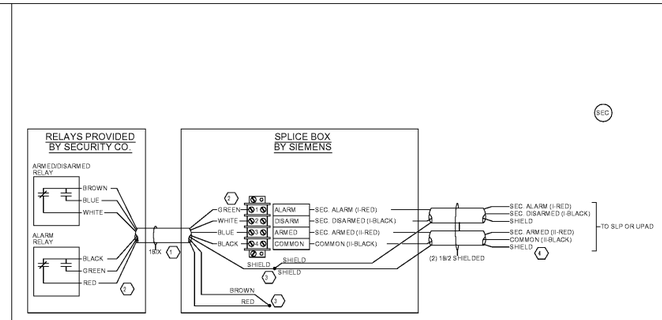


SL 1 SINGLE LINE DIAGRAM (no scale)

KEYED NOTES

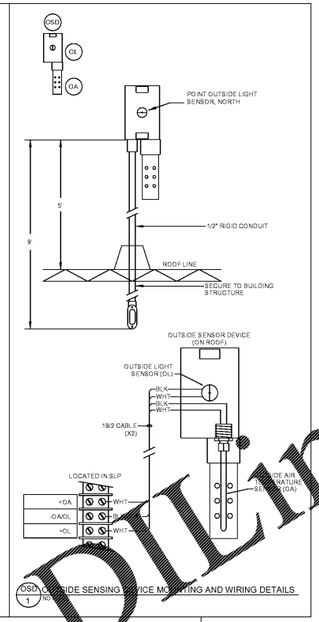
1. REFER TO DETAIL OSD 1 FOR MOUNTING AND WIRING INSTRUCTIONS.
2. OPTIONAL RELAY ISOLATION BOARD REQUIRED IF ISOLATION RELAYS ARE NOT PROVIDED BY THE MANUFACTURER.
3. REFER TO ENERGY METER WIRING DETAILS.
4. REFER TO SLP FIELD WIRING DIAGRAM, NOTE 3 FOR WIRING TERMINATIONS CONTACT BIGLOTS CONSTRUCTION MANAGER FOR LOCATION.
5. DAISY CHAIN COMMUNICATION CABLE TO EACH ADDITIONAL RTU.



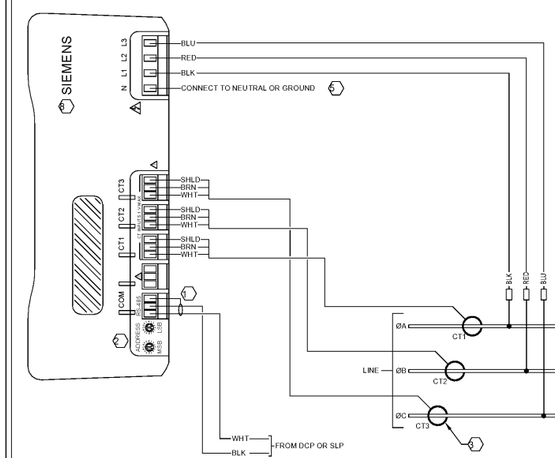
SEC SECURITY INTERFACE SYSTEM (NO SCALE)

KEYED NOTES

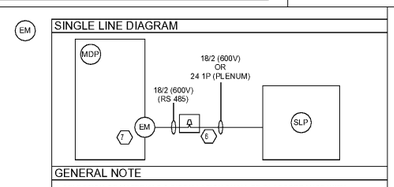
1. INTERFACE MINIMUM OF 6 18AWG CONDUCTORS AND MUST BE SHIELDED. CUT AND TAPE BACK UNUSED CONDUCTORS AND SHIELD AT SECURITY END AND TERMINATE AT DESIGNATED TERMINAL IN SPLICE BOX.
2. SECURITY COMPANY OR 3RD PARTY PULLS CABLE. IF SIEMENS HAS ALREADY MOUNTED SPLICE BOX AND TERMINATED SIGNALS, SECURITY COMPANY SHOULD REMOVE RESISTERS AND TERMINATE SECURITY RELAY SIGNALS AS SHOWN. OTHERWISE, SECURITY COMPANY TO LEAVE ADEQUATE SERVICE LOOP AND SIEMENS WILL TERMINATE WHEN SPLICE BOX IS INSTALLED.
3. JOIN THESE CONDUCTORS USING WIRE NUT OR DOLPHIN CRIMP.
4. GROUND SHIELD ONLY AT THE SLP OR UPAD.



OSD 1 OUTSIDE SENSING DEVICE MOUNTING AND WIRING DETAILS (NO SCALE)



EM 1 ENERGY METER INSTALLATION DETAILS (NO SCALE)



GENERAL NOTE

1. SELECTION OF MATERIALS & INSTALLATION SHALL BE IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
2. REFER TO DOCUMENT "SIEMENS ENERGY METER INSTALLATION" FOR ADDITIONAL INFORMATION.

LEGEND

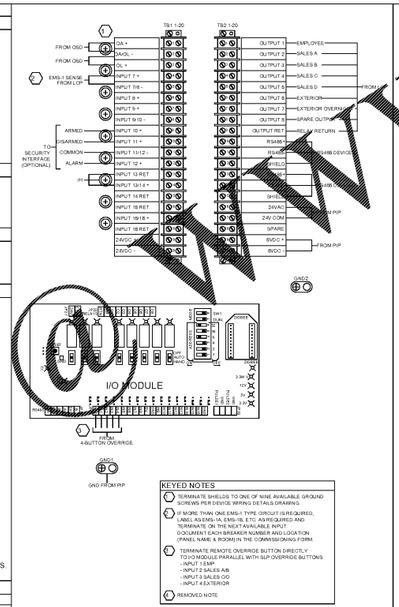
EM- SIEMENS ENERGY METER
MDP- MAIN DISTRIBUTION PANEL
DCP- DIMMING CONTROL PANEL
SLP- SCREAM LOGIC PANEL

KEYED NOTES

1. FOR ALL EXCEPT THE LAST METER (WHEN INSTALLING 2+ METERS) TIE SHIELDS TOGETHER USING DOLPHIN CRIMP. FOR THE LAST METER OR ONLY ONE METER - SHIELD AND DRAIN WIRE TO BE TAPED BACK TO PREVENT ACCIDENTAL GROUNDING.
2. ADDRESS FOR EACH ADDITIONAL METER SHALL BE INCREASED BY ONE. EXAMPLE: 1st METER = ADDRESS 32 DECIMAL OR 20 HEX 2nd METER = ADDRESS 33 DECIMAL OR 21 HEX SIEMENS METER IS ADDRESSED IN HEX.
3. OBSERVE THE ORIENTATION OF THE CT (ARROW MUST FACE LOAD SIDE).
4. N/A
5. NEUTRAL CONNECTION REQUIRED.
6. PROVIDE TRANSFORMER FROM 600VAC TO PLENUM RATED CABLE WHEN: a) ELECTRICAL CONDUCTOR NOT REQUIRED FROM MDP TO SLP (APPLICABLE TO 24VAC AND RS485 CONDUCTORS IN A PLENUM) b) THE LENGTH OF THE ELECTRICAL CONDUIT FROM MDP TO SLP EXCEEDS LENGTH OF THE PROVIDED CABLE (APPLICABLE ONLY TO 24VAC AND COMM. SIGNAL RS485)
7. REFER TO ELECTRICAL CODE FOR SELECTION OF ENCLOSURE AND LOCATION OF THE ENERGY METER.
8. DO NOT MOUNT ENERGY METER WITHIN 2" OF CURRENT CARRYING CONDUCTORS.

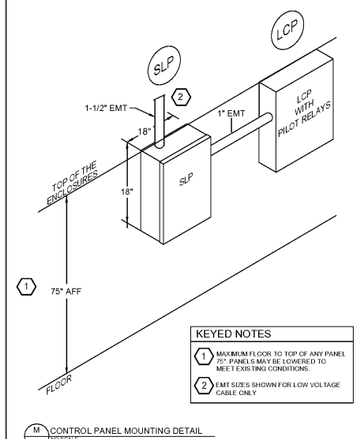
CABLE SCHEDULE

CABLE	DESCRIPTION	REFERENCE
18/2 (600V)	18 AWG 2-CONDUCTOR, SHIELDED, STRANDED, NON PLENUM, TYPE TC-600V	BELDEN 27325AS
24 1P (PLENUM)	24 AWG 1-TWISTED PAIR, SHIELDED, STRANDED, PLENUM RATED	BELDEN 82841
18/2 (PLENUM)	18 AWG 2-CONDUCTORS, SHIELDED, STRANDED, PLENUM RATED	BELDEN 6300 FE



KEYED NOTES

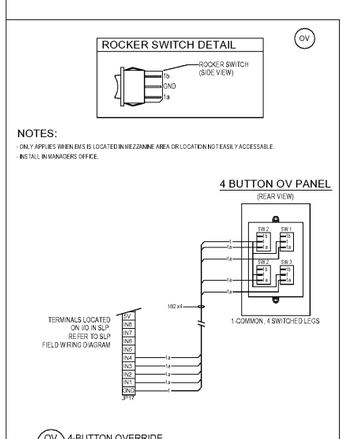
1. TERMINATE SHIELDS TO ONE OF NINE AVAILABLE GROUND SCREWS PER DEVICE WIRING DETAILS DRAWING.
2. IF MORE THAN ONE EMS-II TYPE CIRCUIT IS REQUIRED, LABEL AS EMS-1A, EMS-1B, ETC. AS REQUIRED AND TERMINATE ON THE NEXT AVAILABLE INPUT. DOCUMENT EACH BREAKER NUMBER AND LOCATION (PANEL NAME & ROOM) IN THE COMMISSIONING FORM.
3. TERMINATE REMOTE OVERRIDE BUTTON DIRECTLY TO I/O MODULE PARALLEL WITH SLP OVERRIDE BUTTONS - INPUT 1 EMP - INPUT 2 SALES A/B - INPUT 3 SALES C/D - INPUT 4 EXTERIOR
4. REMOVED NOTE



KEYED NOTES

1. MAXIMUM FLOOR TO TOP OF ANY PANEL 75". PANELS MAY BE LOWERED TO MEET EXISTING CONDITIONS.
2. EMT SIZES SHOWN FOR LOW VOLTAGE CABLE ONLY.

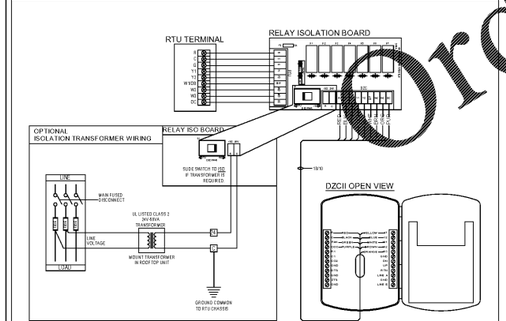
M 3 CONTROL PANEL MOUNTING DETAIL (NO SCALE)



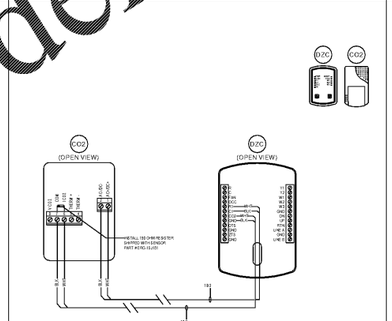
NOTES:

- ONLY APPLIES WHEN EMS IS LOCATED IN MEZZANINE AREA OR LOCATION NOT EASILY ACCESSABLE.
- INSTALL IN MANAGERS OFFICE.

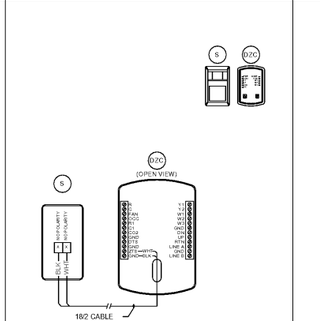
OV 1 4-BUTTON OVERRIDE (NO SCALE)



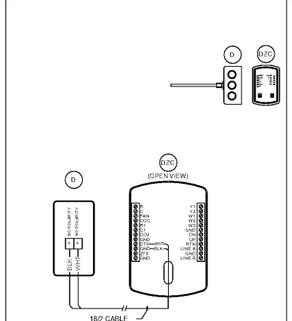
RLY/DZC RELAY ISOLATION BOARD TO DZC (NO SCALE)



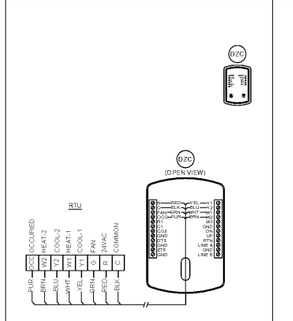
DZC/CO2 DZC TO CO2 SENSOR WIRING DETAILS (NO SCALE)



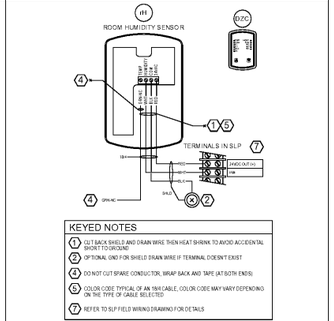
DZC/S DZC TO SPACE TEMP SENSOR (NO SCALE)



DZC/D DZC TO DUCT TEMP. SENSOR (NO SCALE)



DZC/RTU DZC TO ROOFTOP WIRING DETAIL (NO SCALE)



KEYED NOTES

1. CUT BACK SHIELD AND DRAIN WIRE THEN HEAT SHRINK TO AVOID ACCIDENTAL SHORT TO GROUND
2. OPTIONAL GND FOR SHIELD DRAIN WIRE IF TERMINAL DOESN'T EXIST
3. DO NOT CUT SPARE CONDUCTOR, WRAP BACK AND TAPE (AT BOTH ENDS)
4. COLOR CODE TYPICAL OF AN 18/4 CABLE, COLOR CODE MAY VARY DEPENDING ON THE TYPE OF CABLE SELECTED
5. REFER TO SLP FIELD WIRING DRAWING FOR DETAILS

rH 1 RELATIVE HUMIDITY SENSOR (NO SCALE)

EMS SPECIFICATIONS

DATE	REVISION

BIG LOTS
14154 E. WADE HAMPTON BLVD.
GREER, SOUTH CAROLINA 29651

SQUARE FOOTAGE	Sqft
Area	
SALES FLOOR	25,685
TOTAL BUILDING	39,910

DATE DRAWN: 04-02-19
DRAWN BY: F.A.
SCALE: 3/32" = 1'-0"

BIG LOTS STORES, INC.
STORE PLANNING DEPT.
4900 E. DUBLIN GRANVILLE RD
COLUMBUS, OHIO 43081
PHONE: (614) 278-6800

SOUTH CAROLINA REGISTERED No. 19602 PROFESSIONAL ENGINEER SHIGEYOSHI A. MOROI

BIG LOTS STORES, INC.

SHEET: E-4

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