1. FLOOR or WALL ASSEMBLY-Lightweight or normal weight (100-150 pcf) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. Floor may also be constructed of any min. 6 in. thick UL Classified hollow core PRECAST CONCRETE UNIT. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified CONCRETE BLOCKS*. Max dlam of opening is in solid lightweight or normal weight concrete. Floor is 32 in. Max diam of opening in floor constructed of hollow-core

SYSTEM NO. CAJIO44

- See CONCRETE BLOCKS (CAZT) and PRECAST CONCRETE UNITS (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

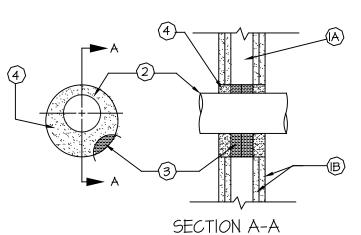
 IA. STEEL SLEEVE- (Optional, not shown)-Max 15 in. ID (or smaller) Schedule IO (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max, of 2 in. above top of floor or beyond either surface of wall. Max 16 in. 1D (or smaller) min. 0.028 wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 1/2 in. beyond either
- THROUGH PENITRANTS-One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is zero in. (point contact). Pipe conduit or tubing to be rigidly supported on both sides of floor or wall assembly. 'The following types and sizes of metallic pipes, conduits or tubing
- A. STEEL PIPE-Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B. IRON PIPE -Nom 30 in. diam (or smaller) cast or ductile iron pipe. C. CONDUIT-Nom 6 in. diam (or smaller) rigid steel conduit.
- P. CONDUIT-Nom 4 in. diam (or smaller) steel electrical metallic tubing. E. COPPER TUBING-Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. F. COPPER PIPE-Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- 3. PACKING MATERIAL-Polyethylene backer rod or nom I in. thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).
- FILL, VOID or CAVITY MATERIAL*-CAULK-Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. diam bead of caulk shall be applied at the top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thickness are dependent upon a number of parameters, as shown in the following table:

Min Floor Or Wall Thkns, In	Nom Pipe Tube Or Conduit Diam, In	Max Annular Space, In	Min Caulk Thkns, In	F Rating,
2-1/2	1/2-12	1-3/8	1/2	2
2-1/2	1/2-12	3-1/4	I	2
4-1/2	1/2-6	1-3/8	1/4 (a)	2
4-1/2	1/2-12	I-I/4	1/2	3
4-1/2	1/2-20	2	· 1	3
4-1/2	1/2-20	2		-
4-1/2	1/2-12	3-1/4		3
4-1/2	22-30	2	2	3
5-I/2	1/2-6	I-3/8	l(b)	3

(b) Min I in. thickness of material wool batt insulation required in annular space on both sides of floor or wall assembly. Min I in. thickness of caulk to be installed flush with each surface of floor or wall assembly. Minnesota Mining & Manufacturing Co.-CP 25MB+. *Bearing the UL Classification Marking

> FLOOR OR WALL ASSEMBLY I-2-3 HR UL PENETRATION (STEEL CONDUIT)

SYSTEM NO. WLIO41 F RATING - 2 HR. T RATING - 0 HR.



- 1. Wall Assembly The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
- Studs Wall framing may consist of either wood studs or steel channel studs. Wood stude to consist of nom 2 by 4 in. lumber spaced max 16 in. OC. Steel studs to be 8 min 2-1/2 in wide and spaced 24 in OC.
- 3. Wallboard, Gypsum Two layers of nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Désigns. Max diam of opening not to excéed 7 in.
- Through Penetrants One metallic pipe or conduit to be installed concentrically or eccentrically within the firestop system. The annular space shall be min 1/4 in. to max 2-1/2 in. pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
- A. Steel Pipe Nom 4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe. B. Conduit - Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit C. Copper Tubing - Nom 3 in. diam (or smaller) Type M (or heavier) copper tubing.
- Packing Material Min 3-1/2 in. thickness of min 0.5 pcf fiberglass insulation firmly packed into opening as a permanent form. The packing material shall be sized to be at least 1/2 in. larger than the opening dia. centered in the walls mid-depth and compressed so that it is recessed a min. of 1-1/4 in. from each surface of wall.
- Fill, Yold or Cavity Material Dry mix material mixed with water at a rate of 100 grams of dry mix per 48 to 50 ml of water or a 48/100 to 50/100 ratio by weight of water to dry mix, in accordance with the accompanying installation instructions. Material applied to each surface of the packing material within the annulus between the penetrating item and periphery of opening to a min. depth of 1-1/4 in. Material shall be troweled flush with both surfaces of wall assembly.
- Gold Bond Building Products, National Gypsum Div. Type Sta-Smooth FS.
- ** Bearing the UL Classification Marking.

FLOOR OR WALL ASSEMBLY I-2-3 HR UL PENETRATION (STEEL CONDUIT)

UL PENETRATING PROCEDURE DETAILS NOT TO SCALE

Motor Type PH Volt HP FLA BREAKER | 1 Light switch, 1 Fan switch, Exhaust in Fire, Exh-1 Exh | 1 | 115 | 0.333 | 6 | 15 Amp | NC contact from EMS Panel for override of

1 Phase Controls for 1 Exhaust fan. Includes

fan control, Double Dual Microswitch (extra)

COMPONENT PARTS LIST

LOCATION

TERMINAL FOR FIELD WIRING

TO MUA-1 O/A DAMPER,

DRY CONTACTS FOR SIGNAL

TERMINAL FOR FIELD WIRING

TO (spare) SHUTDOWN, DRY

CONTACTS FOR SIGNAL ONLY

Ø AR4 S BR NC Ø TR4 S BK Ø C4 S RD NO

MS-x MicroSwitch

C-RD NO-BK NC-BR

used for shutdowns. Fans ON/OFF

thermostatically controlled.

LABEL DESCRIPTION

IC-x Contactor ST-x Starter IOL—x Overload

HOOD SYSTEM WIRING DETAIL CONTROL INPUT 120VAC H1=LINE, N1=NEUTRAL 15A BKR DO NOT ____ WIRE TO SHUNT TRIP BREAKER 2 (Fan Switch Shown Installed) NORMALLY OPEN ==LOAD 4 PANEL I TC-01 7₁₁8 1 Amp Max R1-1 BK B B BK (L)WH W V Jumper

FS-xx Fan Switch (Lighted) LS-xx Light Switch ---- DENOTES FIELD WIRING Hood Light(s) ----- DENOTES INTERNAL WIRING MS-x MicroSwitch (Ansul/PyroChem) Relay DPDT - 34.110.0146.0 WIRE COLOR BK - BLACK YW - YELLOW BL - BLUE GY - GRAY TC-XX TEMPERATURE CONTROLLER PXR4-WAS1-GV0A7 BR - BROWN PR - PURPLE SN-X RTD TEMPERATURE SENSOR (See Note 1) OR - ORANGE OR/BL -ORANGE/BLUE (STRIPE) RD — RED BL/RD — BLUE/RED (STRIPE) WH - WHITE RD/GN - RED/GREEN (STRIPE) SPARE FIRE DRY CONTACTS DRAWING SHOWN DE-ENERGIZED TERMINAL FOR FIELD WIRING TO BUILDING FIRE PANEL, NOTE: IF WALL MOUNT PREWIRE, OR FIELD DRY CONTACTS FOR SIGNAL INSTALLED FIRE SYSTEM MICROSWITCH, THE TERMINALS SHOWING FACTORY WIRING MUST BE FIELD WIRED. Rx RELAY SOCKET STYLE 2 WIRE NO-BL NC-PR COM 6 5

NOTE 1: CT SENSOR FIELD WIRED WHEN RISERS SHIPPED LOOSE. WHEN MULTIPLE CT SENSORS USED ON ONE FAN SWITCH, EACH SENSOR IS WIRED TO ITS OWN CONTROLLER AND THE CONTROLLER TERMINALS 4, 7, 10 AND 11 ARE WIRED IN PARALLEL. TERMINALS 6 AND 8 ARE JUMPERED ON

EACH CONTROLLER.

12 x 18 x 6 Box

SYMBOL LEGEND SINGLE POLE SWITCH NEW FLOOR STUB-UP JUNCTION BOX PUSHBUTTON THREE WAY SWITCH MICROPHONE 0 ELECTRICAL CONNECTION BO SIGNAL BELL UNDER CASE TELEPHONE JACK, 2"x4" UNLESS SINGLE POLE SWITCH w/ PILOT LIGHT INDICATOR FLUORESCENT FIXTURE NOTED OTHERWISE SENSOR....TEMP/HUMIDITY \ominus DUPLEX RECEPTACLE (HANDY BOX MTD.) DISCONNECT SWITCH (TYPE AS NOTED) LIGHT FIXTURE (SEE LIGHT SCALE COMMUNICATION OUTLET WEATHERPROOF RECEPTACLE FIXTURE SCHEDULE ON THIS MAGNETIC SWITCH SHEET) ENERGY MANAGEMENT SYSTEM QUADRAPLEX RECEPTACLE EXIT LIGHT DROP FROM CEILING LOAD NUMBER SPEAKER VOLUME CONTROL EMERGENCY LIGHT FIXTURE SPECIAL RECEPTACLE (TYPE AS NOTED)

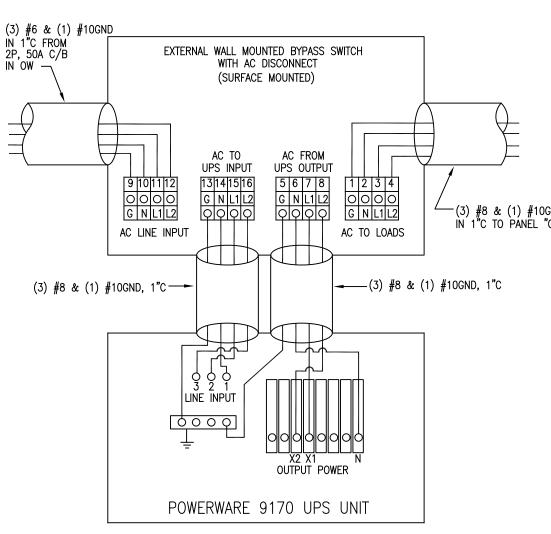
LIGHT FIXTURE SCHEDULE										
FIXTURE TYPE	MOUNTING TYPE	QUANTITY	DESCRIPTION	MANUFACTURER	LABEL	WATTS	VOLTS	NOTES	LIGHTING COMMENTS	
В	SUSPENDED/ CEILING	34	8' LED STRIP LIGHT	LITHONIA	CLX L96 8000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	48	120		BACK ROOM LIGHTING (STAGING AND RECEIVING - MOUNTING HEIGHT AT ABOUT 10' AFF, OR ADJUST AS NEEDED TO AVOID REFRIGERATION LINES). OFFICES WITH GYP. BO. CELING THAT ARE 10' AND ABOVE. WALLWASH OUTSIDE OF GARDEN COOLER ABOVE POTATO TABLES.	
B1	SUSPENDED/ CEILING	2	4' LED STRIP LIGHT	LITHONIA	CLX L48 4000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	24	120		4' VERSION OF TYPE B FIXTURE	
C1	SURFACE	5	4' LED STRIP LIGHT	LITHONIA	CLX L48 5000LM HEF RDL MVOLT GZ10 35K 80CRI PLR1LVG WH	30	120		SALES AREA WALL WASH (PERIMETER) - MOUNTED TO GRID. RESTROOMS	
C1e	SURFACE	2	4' LED STRIP LIGHT WITH BATTERY BACKUP	LITHONIA	CLX L48 5000LM HEF RDL MVOLT GZ10 35K 80CRI E10WLCP SPD PLR1LVG WH	30	120		FIXTURETYPE C1 WITH BATTERY BACK UP (ONLY USED IN RESTROOM)	
F	GRID/SURFACE	7	2x4 FLAT PANEL LED	Lithonia	CPX 2x4 4000LMHE 80CRI 35K SWL	39	120		DELI PREP AND OFFICE WITH LAY IN CEILINGS	
Fe	GRID/SURFACE	2	2x4 FLAT PANEL LED WITH BATTERY BACKUP	LITHONIA	CPX 2x4 4000LMHE 80CRI 35K SWL WITH BATTERY BACKUP	39	120		DELI PREP AND OFFICE WITH LAY IN CEILINGS	
FHO	GRID	11	2x4 FLAT PANEL LED - HIGH OUTPUT	LITHONIA	CPX 2x4 10000LM 80CRI 35K SWL MIN10 ZT MVOLT	88	120		DELI SALES FLOOR WITH LAY IN CEILINGS	
I.	SURFACE	19	4' LED COOLER/FREEZER LINEAR	LITHONIA	FEM L96 12000LM LPAFL MD MVOLT 40K 80CRI	38	120		COOLER AND FREEZER IN STORE, ALSO PRODUCE/MEAT/SEAFOOD PREP ROOMS	
11	SURFACE	3	4' LED COOLER/FREEZER LINEAR	LITHONIA	FEM L48 6000LM LPAFL MD MVOLT 40K 80CRI	38	120		COOLER AND FREEZER IN STORE, ALSO PRODUCE/MEAT/SEAFOOD PREP ROOMS	
J	TOP OF CASE	29	4' LED LINEAR	ILT	ILT LB48 W35F24	15	120	4	MOUNTED AT ON CASE UNDER BULKHEAD. CAN MOUNT TO TOP OF CASE OR BACK OF BULKHEAD.	
K1	WALL/COLUMN /CEILING	19	HIGH CAPACITY EMERGENCY BUGEYE LIGHTING	MULE	TSR-HO-W-IBM	11	120		EMERGENCY BUG EYE	
K2	WALL/COLUMN /CEILING	4	LED RED EXIT SIGN WITH BATTERY BACKUP	MULE	MXBRU	0.65	120		EXIT SIGN	
К3	WALL	5	ARCHITECTURALLY STYLED HIGH PERFORMANCE LED EGRESS LUMINAIRE	MULE	MAKO-LED ACEM DB	11	120		EXTERIOR EMERGENCY LIGHTS	
RL	VARIOUS	14	EXISTING FIXTURES TO BE RELOCATED WITHIN THE STORE	VARIOUS					EXISTING FIXTURES THAT ARE BEING RELOCATED DURING REMODEL AND NOT REMOVED	

LIGHT FIXTURE SCHEDULE NOTES

- ALL LIGHT FIXTURES (FLUORESCENT AND LED) AND LAMPS SHALL BE PURCHASED FROM WESTCO LIGHTING SERVICES CORP. LIGHTING DESIGN AND PROJECT MANAGEMENT DEPARTMENT, 200 MIDWAY PARK DRIVE, MIDDLETON, NY 10940 AT THE NATIONAL CONTRACT PRICE. FOR PURCHASE, CONTACT MICHAEL ZALENSKI AT (508) 244-9753 EMAIL: foodlionproduct@wescodist.com. ALL FIXTURES SHALL BE INSTALLED AND POWERED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES, RATINGS, LENGTHS, ETC. SEE SHEET E1.01 FOR MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES. COORDINATE CABLE MOUNTING LENGTH WITH MOUNTING HEIGHT OF FIXTURE.
- INSTALL 'SREP' CLIPS ON BOTH SIDES OF EACH ROW OF FIXTURES. PROVIDE BLACK MC POWER FEED. TIE WRAP MC CORD NEATLY TO AIRCRAFT CABLE. FIXTURE TO BE MOUNTED ON TOP OF REFRIGERATED CASE. MOUNT FIXTURE 24" FROM CENTER OF FIXTURE TO FACE OF WALL. POSITION REFLECTOR TO FACE THE WALL.
- ALL LAMPS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SYLVANIA OR PHILLIPS, UNLESS NOTED OTHERWISE.
- SUSPEND WALL WASH FIXTURES WITH AIRCRAFT CABLE. PROVIDE WHITE MC CABLE POWER FEED. TIE WRAP MC CABLE NEATLY TO AIRCRAFT CABLE. PROVIDE TUBE SHIELDS FOR ALL LAMPS IN THE PRODUCE PREP AND SALES AND ALL FIXTURES IDENTIFIED WITH "TS".
- MOUNTED TO BACK OF BULKHEAD

9. FIXTURE COUNTS TO BE VERIFIED WITH FINAL DESIGN. SEE SHEET E1.01 TO VERIFY FINAL COUNT FOR ALL FIXTURES.

LIGHT FIXTURES SHALL BE MANUFACTURED BY LITHONIA UNLESS NOTED OTHERWISE. PURCHASE FROM WESTCO AT THE NATIONAL CONTRACT PRICE. FOR PURCHASE, CONTACT WESTCO AT foodlionproduct@wescodist.com. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES, RATINGS, LENGTHS....ETC. ANY DISCREPANCIES SHALL BE RESOLVED WITH WESTCO PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITION TO THE BILL OF MATERIALS DUE TO LOCAL, STATE GOVERNMENTAL CODES.



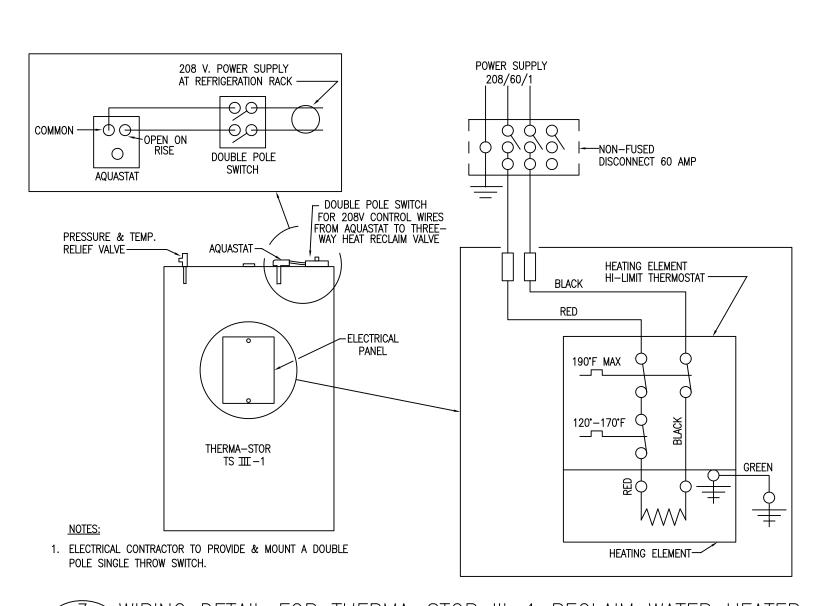
UPS UNIT NOTES:

. THIS DIAGRAM MUST BE FOLLOWED PER PROPER PHASING AND OPERATION.

2. PANEL 'CR' TO BE POWERED BY 208 VAC HOT, NEUTRAL AND ISOLATED GROUND.

- 3. ALL ELECTRICAL WIRING WILL BE DONE IN A MANNER ACCEPTABLE TO DELHAIZE AMERICA AND THE N.E.C.
- 4. FOR ANY QUESTIONS, CALL NATIONAL POWER CORPORATION AT (336) 613-3679.
- 5. NATIONAL POWER IS RESPONSIBLE FOR STARTING UP THE U.P.S. SYSTEM.
- 6. 6"x6"x4"D JUNCTION BOX SHALL BE FLUSH MOUNTED DIRECTLY BEHIND THE BYPASS SWITCH FOR CONCEALED UPS WIRING.

"UPS" UNIT WIRING DIAGRAM E6.02 NOT TO SCALE



ackslashWIRING DETAIL FOR THERMA-STOR III-1 RECLAIM WATER HEATER E6.02 NOT TO SCALE



035 NORTHWINDS DR NW CONCORD, NC 28027 04.700.2000 I ycharch.com

ROFESSIONAL SEALS:





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FOOD LION

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22423.00 'CHA COM. #: PHASE & DATE:

Construction **Documents** 09-20-2024

REVISIONS:

ELECTRICAL SCHEDULES AND DIAGRAMS

RCHITECTURAL: