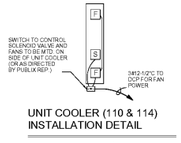
TYPICAL CONNECTION SYMBOLOGY

TYPICAL CASE CONNECTION	DESCRIPTION
	SEE E-4a
	120V CIRCUIT FOR CONTROLS, FAN, LIGHTS, DEFROST, & LITE FROM RESPECTIVE PANEL
	240V CIRCUIT FOR DEFROST HEAT FROM RESPECTIVE PANEL (BREAKER SIZE MAY VARY WITH HEATLOAD)
	1#12 AWG GROUNDING WIRE IN CONDUIT

UNIT COOLER (110 & 114) INSTALLATION DETAIL



REFRIGERATION NOTES

1. ALL BRANCH CIRCUITS, PRODES, DEFROST TERMINATOR CONDUCTORS ARE TO BE RUN IN THE TOE RACE WAY OF SYSTEMS 8A,8B,8C,21,27,28,29,30,40A,40B,41,42A,42B,43A, 43B,43C,43E,44,45.
2. ALL BRANCH CIRCUITS, PRODES AND DEFROST TERMINATION OF ALL REMAINING CASES TO BE CONNECTED TO THE ELECTRICAL JUNCTION BOX OF THE CASE.
3. ALL BRANCH CIRCUITS, PRODES AND DEFROST TERMINATION FOR DRZ AND OSD CASES ARE TO BE CONNECTED TO THE CONDUIT SYSTEM ON TOP OF CASES.
4. ALL WALK-IN FREEZERS TO HAVE SOLENOID VALVE INSTALLED BY REFRIGERATION CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
5. ALL WALK-IN FREEZERS AND COOLERS TO HAVE A DOOR SWITCH (MTD SHUT DOWN COIL SWITCH) ARE TO BE FURNISHED AND INSTALLED BY REFRIGERATION CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. COORDINATE WITH PUBLIX'S REPRESENTATIVE FOR WIRING, AS SHOWN ON SEE DETAIL ON THIS DRAWING.
6. PROVIDE 1/2" CONDUIT FROM EACH PRODE AND 1/2" CONDUIT FROM EACH DEFROST TERMINATION TERMINAL IN CASE (SHOWN ABOVE) AND (SHEET E-3.1a) TO RESPECTIVE REFRIG. UNIT CONTROL CABINET. THESE CONDUITS CAN BE GROUPED TOGETHER. DO NOT CUT OR SPLICE CONDUCTORS. CLEARLY IDENTIFY BOTH ENDS OF CONDUCTORS. BY SYSTEM NUMBERS.
7. ALL APPROVED SHIELDED CABLE SUPPLIED AND INSTALLED BY CONTRACTOR.
8. ALL CASES SHALL HAVE CONDUCTORS IN A FLEXIBLE CONDUIT FROM CASE TO CONDUIT J8 ON TOP OF THE CASE.
9. ON ALL MULTI CASE SYSTEMS THE DEFROST TERMINATION (DT) ARE TO BE WIRED IN SERIES USING #20 CONDUCTORS OF THE #CHP8H.
10. IN ALL WALK-IN COOLERS AND FREEZERS PROVIDE A HUBBELL RECEPTACLE, MALE PLUG, BOOT, BOAT IN RAINPROOF COVER PLATE AND CORD FOR EACH COIL AS SHOWN ON THE DRAWINGS SEE SYMBOL SCHEDULE ON DRWG. E-1.0 FOR COMPLETE DEVICE ASSEMBLY.
11. ALL WIRING TO REFRIGERATED CASES, WALK-IN COOLER, AND FREEZERS SHALL BE TYPE THHN STRANDED COPPER, SIZES AS INDICATED.
12. CONDUCTORS FOR SINGLE SOLENOID VALVE STATIONS SHALL BE BELDEN 9500UE (2C #18).
13. EXTEND ALL TEMP. PRODES ON CPC TO J-BOX ON TOP OF COOLERS AND FREEZERS INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. ELECTRICIAN SEE DETAIL ETHIS SHEET) FOR LOCATION OF J-BOX, BEHIND COILS TOP SIDE OF COOLER OR FREEZER.
14. NOT USED
15. CONTRACTOR TO INSTALL ONE (1) #12 (GREEN) CONDUCTOR IN EACH LINE UP OF CASES, FREEZERS AND COOLER CASES FOR BONDING.
16. CONTRACTOR TO MAKE ALL FLEX, CONDUIT AND REFRIGERATION EQUIPMENT WITH THE SHORTEST APPROPRIATE LENGTH OF FLEX CONDUIT.
17. PROVIDE KEY TYPE SWITCH FOR CONTROL OF [illegible] SOLENOIDS IN LINE SUCTION FOR WALK-IN COOLERS AND FREEZERS.
18. ALL ROOF TOP REFRIGERATION EQUIPMENT SHALL BE FACTORY INSTALLED DISCONNECT SWITCHES.
19. ELEC. CONTRACTOR TO CLEARLY MARK EACH CIRCUIT BREAKER IN THE PANELBOARD AND CIRCUIT NUMBERS IN EACH CASE. LABELS TO BE PERMANENT AND INSTALLED BY CONTRACTOR.
20. PENETRATIONS THROUGH FLOOR, WALLS AND CEILING SHALL BE SLEEVED WITH [illegible] AND PROPERLY FIRESTOPPED. [illegible] HARDWARE AND RULES SHALL BE FILLED WITH [illegible] PER UBC 709 AND ANY DOWNTIMES SEC 302.7(A).
21. PENETRATIONS THROUGH FIRE RATED PARTITIONS TO BE COMPLETED IN ACCORDANCE WITH APPROVED METHODS.
22. ALL VOLTAGE WIRING TO ALL REFRIG. CASES, WALK-IN COOLERS AND FREEZERS MUST BE #12 AWG (UP TO SWA JOB).
23. ALL MULTI CONDUCTORS IN CONDUIT HAVE BEEN DERATED AS PER 2011 N.E.C. TABLE 310.15(B)(2)(a). ANY DEVIATION BY CONTRACTOR MUST REMAIN IN ACCORDANCE WITH THIS TABLE.
24. ELECTRICAL CONTRACTOR TO INCLUDE EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS CONTAINING CIRCUITS OVER 20 AMPS (i.e. ALL LIGHT CIRCUITS). IN ADDITION TO WIRE QUANTITIES SHOWN.
25. INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES ON EXPOSED STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.
26. MAKE SPLICES, TAPS, AND TERMINATIONS ONLY AT INDICATED OUTLETS, TERMINALS AND STRIPS.
27. SECURE AND SUPPORT EXPOSED CABLES AT INTERVALS NOT EXCEEDING 30" AND NOT MORE THAN 8" FROM CABINETS, BOXES, FITTINGS AND TERMINALS.
28. CONTRACTOR SHALL FREEWIRE LOW VOLTAGE CABLES ONLY UPON COMPLETION OF PAINTING IN THE INSTALLATION AREA.
29. ELECTRICAL CONTRACTOR SHALL LABEL EACH END OF ALL LOW VOLTAGE CONDUCTORS INSTALLED BY ELECTRICAL CONTRACTOR INCLUDING CONDUCTORS TERMINATED BY OTHERS.
30. ALL CONTROL CONDUCTORS RUN ON TOP OF CASES, COOLERS AND FREEZERS SHALL BE IN CONDUIT (FLEX. CONDUIT TO BE 24" MAX.)
31. NO LOW VOLTAGE CONDUCTORS, CABLES, WIRES, ETC. PERMITTED TO BE INSTALLED BETWEEN TOP OF JOIST AND ROOF DECK.

LOW TEMP CONTROL WIRING COORDINATION		
SYSTEM	COIL/BOARD QTY	WIRING DIAG
12	1	E3.1d 3
13A	1	E3.1d 3
13B	1	E3.1d 3
14A	1	E3.1d 3
14B	1	E3.1d 3
15	1	E3.1d 3
16	1	E3.1d 3
20	1	E3.1d 3
102	1	E3.1c 3
104	1	E3.1c 3
106	1	E3.1c 3
112	1	E3.1c 3
115	1	E3.1c 3
1A	1	E3.1d 3
1B	1	E3.1d 3
2A	1	E3.1d 3
2B	1	E3.1d 3
3A	1	E3.1d 3
3B	1	E3.1d 3
4	1	E3.1d 3
5A	1	E3.1d 3
5B	1	E3.1d 3
6A	1	E3.1d 3
6B	1	E3.1d 3
7A	1	E3.1d 3
7B	1	E3.1d 3
BA/BC	2	E3.1d 3
8B	1	E3.1d 3
9A	1	E3.1d 3
10A	1	E3.1d 3
10B	1	E3.1d 3
11A	1	E3.1d 3
11B	1	E3.1d 3
32	1	E3.1d 3

MED TEMP CONTROL WIRING COORDINATION		
SYSTEM	COIL/BOARD QTY	WIRING DIAG
17A	1	E3.1d 4
17B	1	E3.1d 4
18A	1	E3.1d 4
18B	1	E3.1d 4
19	1	E3.1d 4
21	1	E3.1d 4
22A	1	E3.1d 4
22B	1	E3.1d 4
22C	1	E3.1d 4
23A	1	E3.1d 4
23B	1	E3.1d 4
24A	1	E3.1d 4
24B	1	E3.1d 4
25A	1	E3.1d 4
25B	1	E3.1d 4
26A	1	E3.1d 4
26B	1	E3.1d 4
26C	1	E3.1d 4
101	1	E3.1d 1
105	2	E3.1d 2
107	1	E3.1d 1
108	1	E3.1d 1
109	1	E3.1d 1
27	1	E3.1d 4
28	1	E3.1d 4
29	1	E3.1d 4
30	1	E3.1d 4
30A	1	E3.1d 4
30B	1	E3.1d 4
30C	1	E3.1d 4
30D	1	E3.1d 4
30E	1	E3.1d 4
30F	1	E3.1d 4
30G	1	E3.1d 4
30H	1	E3.1d 4
30I	1	E3.1d 4
30J	1	E3.1d 4
30K	1	E3.1d 4
30L	1	E3.1d 4
30M	1	E3.1d 4
30N	1	E3.1d 4
40A	1	E3.1d 4
40B	1	E3.1d 4
41A	1	E3.1d 4
41B	1	E3.1d 4
41C	1	E3.1d 4
42A	1	E3.1d 4
42B	1	E3.1d 4
43A	1	E3.1d 4
43B	1	E3.1d 4
44	1	E3.1d 4
45	1	E3.1d 4
46	1	E3.1d 4
47	1	E3.1d 4
48A	1	E3.1d 4
48B	1	E3.1d 4
49A	1	E3.1d 4
50A	1	E3.1d 4
50B	1	E3.1d 4
50C	1	E3.1d 4
110	2	E3.1d 2
111	1	E3.1d 1
113	1	E3.1d 1
114	2	E3.1d 2
116	1	E3.1d 1
117	1	E3.1d 1
118	2	E3.1d 2

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No.	Description	Date

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Shelby Co., AL

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V2014-2018
SIENNA LITE

ELECTRICAL REFRIGERATION POWER PLAN

1/8" = 1'-0"

E3.1

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2 STANDARD MARKET - ELEC. REFRIGERATION POWER PLAN
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