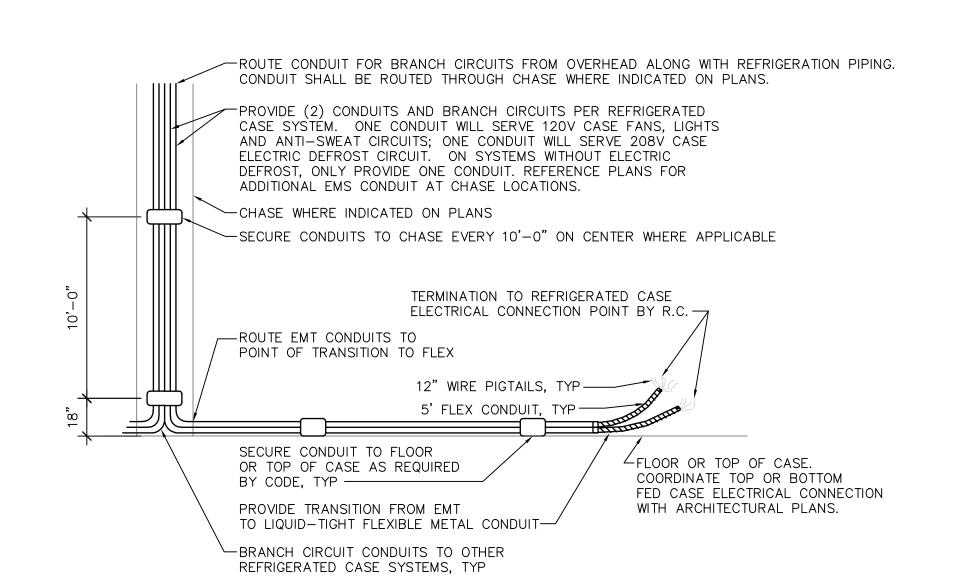
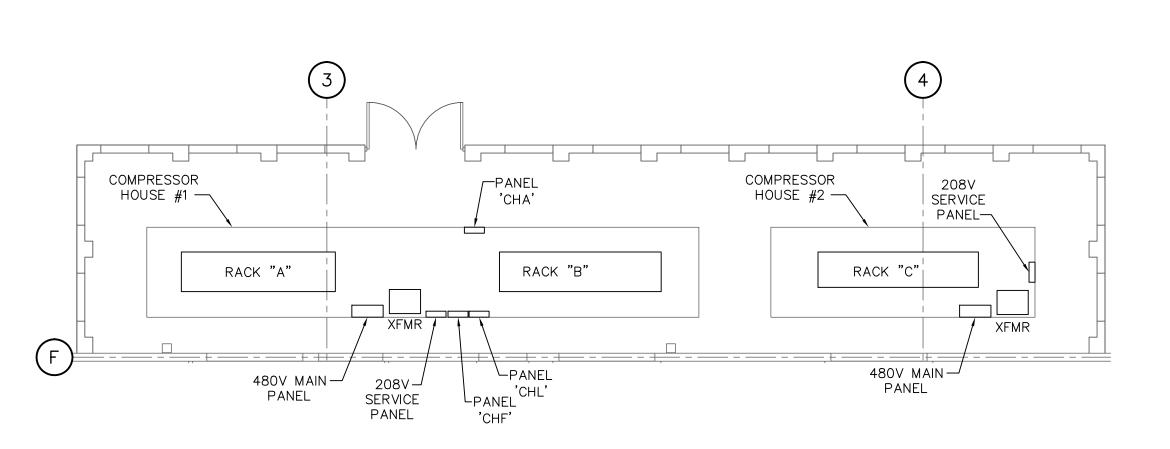


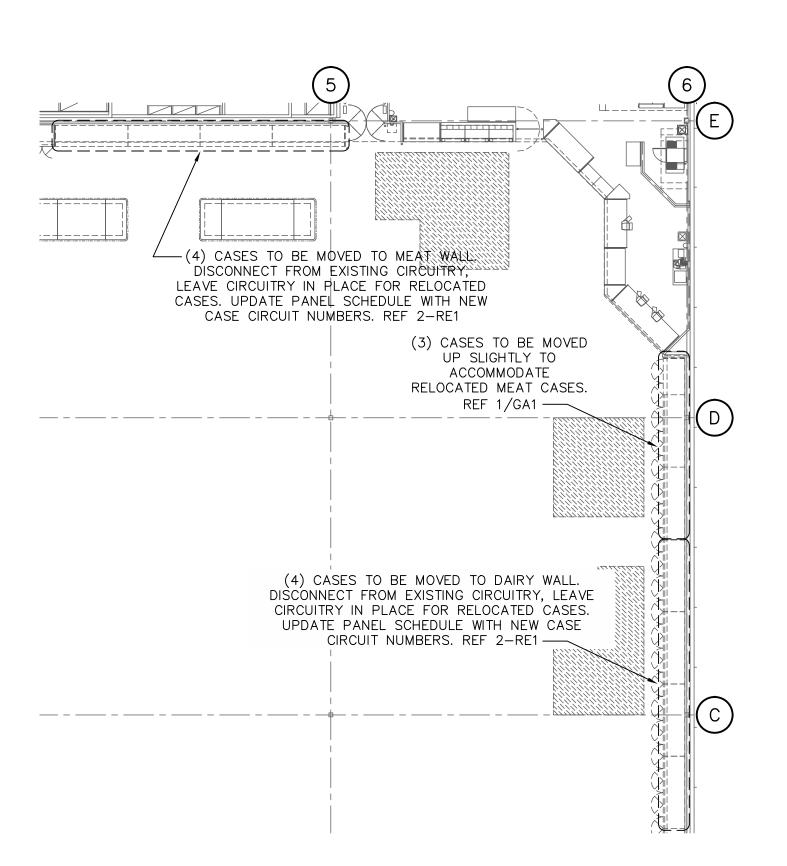
2 REFRIGERATION ELECTRICAL PLAN

1/8" = 1'-0"





COMPRESSOR HOUSE REFRIGERATION ELECTRICAL PLAN



1) REFRIGERATION DEMO PLAN

CIRCUIT SCHEDULE

V2210 20A, (2)#10, (1)#10G, 1/2" C <u>V228</u> 20A, (2)#8, (1)#10G, 1/2" C

ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATION AND COPPER CONDUCTORS WITH TYPE THHN/ THWN-2 INSULATION. WHERE ALUMINUM CONDUCTORS ARE ALLOWED PER SPECIFICATIONS AND FOR TERMINATION OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

> NOTE: REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR ALL FINAL REFRIGERATION ELECTRICAL TERMINATIONS TO REFRIGERATION EQUIPMENT.

GENERAL REFRIGERATION

ELECTRICAL NOTES PROVIDE ALL CONDUIT AND WIRE AS INDICATED ON DRAWING. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER FOR

- TERMINATION BY REFRIGERATION CONTRACTOR. COORDINATE ALL WORK WITH REFRIGERATION CONTRACTOR
- PRIOR TO INSTALLATION. KEEP PENETRATIONS THROUGH COOLER AND FREEZER BOXES TO A MINIMUM. ROUTE ALL CONDUITS SERVING
- FREEZERS AND COOLERS ON INSIDE OF BOX. UNDERSLAB CIRCUITS SHALL NOT BE ROUTED UNDER
- REFRIGERANT LINES WHERE THEY CROSS. ON GROUPS OF THREE OR MORE REFRIGERATED CASES WITH ELECTRIC DEFROST, REFRIGERATION CONTRACTOR SHALL CONNECT CASES TO CREATE A THREE-PHASE HEATER CIRCUIT. HEATER LOADS SHALL BE BALANCED

BETWEEN PHASES AS EVENLY AS POSSIBLE (REF CASE

DEFROST WIRING DETAIL).

WALK-IN FREEZERS AND SHALL BE ROUTED ABOVE

- ROUTE REFRIGERATED CASE AND COIL FAN, LIGHTS, ANTI-SWEAT AND DEFROST BRANCH CIRCUITS TO WIREWAYS PROVIDED AT REFRIGERATION EQUIPMENT. PROVIDE AN ADDITIONAL 6 FEET OF CONDUCTOR AT REFRIGERATION EQUIPMENT TO ALLOW ADEQUATE LENGTH FOR TERMINATION. FINAL TERMINATION AT REFRIGERATED CASES BY REFRIGERATION CONTRACTOR.
- REFERENCE ARCHITECTURAL DEMOLITION PLANS FOR FULL EXTENT OF DEMOLITION WORK REQUIRED.
- PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT SERVING REFRIGERATED CASES OR WALK-IN UNITS AS INDICATED ON PLANS.

REFRIGERATED CASE WIRING **NOTES**

- E.C. SHALL PROVIDE CONDUIT AND WIRE FOR REFRIGERATED CASE FANS, LIGHTS AND ANTI-SWEAT HEATERS TO WIREWAY AT REFRIGERATION EQUIPMENT, UNLESS NOTED OTHERWISE. WIRE SIZE AS INDICATED IN SCHEDULE. FINAL TERMINATIONS AT CASE AND AT REFRIGERATION EQUIPMENT BY R.C. REF CASE CONNECTION WIRING DETAIL.
- REFRIGERATED CASE WIRING COMPARTMENT REPRESENTED ON DRAWING BY RECTANGULAR BOX.
- CIRCUITS FOR REFRIGERATED CASES SERVED BY UNDERSLAB REFRIGERATION PIPING ARE TO BE ROUTED UNDERSLAB. REFER TO CASE CONNECTION WIRING DETAIL.
- ALL UNDERSLAB CONDUITS SHALL BE 3/4" MIN.
- CIRCUITS FOR REFRIGERATED CASES SERVED BY OVERHEAD REFRIGERATION PIPING ARE TO BE ROUTED DOWN FROM STRUCTURE AT THE SAME LOCATION AS THE REFRIGERATION PIPING AND EXTENDED TO THE FIRST CASE IN EACH SYSTEM BY THE E.C. WIRE AND CONDUIT FOR SLAVE WIRING BETWEEN CASES SHALL BE PROVIDED BY

ELECTRICAL KEYNOTES

- 16.470 FURNISH AND INSTALL NEW 20 AMP, 120 VOLT CIRCUIT(S). FEED FROM PANELBOARD AS INDICATED. PROVIDE 20A-1P CIRCUIT BREAKER IF NEEDED. EC SHALL MATCH TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS. EC SHALL VERIFY PRIOR TO ROUGH-IN THAT EXISTING PANELBOARD HAS SPARE CAPACITY TO ACCOMMODATE ADDITIONAL LOAD.
- 16.710 EMS CONDUITS: PROVIDE 1" (UNLESS NOTED OTHERWISE) CONDUIT (WITH PULL WIRE) ROUTED 6" ABOVE BOTTOM OF BAR JOIST IN SALES FLOOR ACCESSIBLE CEILING SPACE THROUGH PVC CHASE.
- 16.711 POINT OF TRANSITION FROM EMT TO FLEX. PROVIDE CONDUIT AND BRANCH CIRCUITS FOR REFRIGERATED CASE FANS, LIGHTS, ANTI-SWEAT HEATERS, AND ELECTRICAL DEFROST (IF REQUIRED). TERMINATION TO REFRIGERATED CASE ELECTRICAL CONNECTION POINT BY RC. REFER TO CASE CONNECTION WIRING DETAIL.
- 16.765 EC SHALL PROVIDE CONDUIT AND FEEDERS FOR REFRIGERATED CASE FANS, LIGHTS, ANTISWEATS, RECEPTACLES, AND ELECTRIC DEFROST IF REQUIRED. TAG AND LABEL EACH CIRCUIT FOR FINAL TERMINATION BY RC. WHEN POSSIBLE ELECTRICAL CIRCUIT ROUTING SHALL FOLLOW THE REFRIGERATION LINES TO STRUCTURE.
- 16.957 CONNECT CIRCUIT(S) TO EXISTING BRANCH CIRCUITRY. MINIMUM WIRE SIZE AND PANELBOARD CIRCUIT ARE NOTED. VERIFY SIZE, RATING AND CONDITION OF EXISTING BRANCH CIRCUIT CONDUIT AND WIRE PRIOR TO USE TO ENSURE THAT THEY MEET REQUIRED SIZE, AND ALL U.L. RATINGS AND REPLACE AS REQUIRED.



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ERIC KESTERSON, P.E. ENGINEER OF RECORD CA # F-2220

REFRIGERATION ELECTRICAL PLAN

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELF WITH THIS VERIFY ALL EXISTING CONDITIONS PRIOR TO KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILIT SUBMITTING FINAL BIDS. CONTRACTOR SHALL OF PERFORMING THE WORK PROPERLY. NO CAREFULLY COORDINATE NEW WORK AND DEMOLITI ADDITIONAL COMPENSATION SHALL BE ALLOWED WITH ALL OTHER DISCIPLINES AND EXISTING BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS

KNOWLEDGE.