

REFRIGERATION KEYNOTES

15.601 SLOPE REFRIGERANT LINES BACK TO

REFRIGERATION LINES JUST BELOW BOTTOM CHORD OF JOIST OR BEAM.

COORDINATE ELEVATION TO AVOID CONFLICTS WITH DUCTWORK, LIGHTING, ETC. 5.602 SUPPORT HORIZONTAL RUNS OF REFRIGERANT LINES PER SPECIFICATIONS. 5.603 AT ALL POINTS WHERE SUCTION LINES RISE, PROVIDE A SUCTION LINE TRAP AT THE BASE OF THE RISER.

LOCATE HIGHEST POINT OF

COMPRESSORS AT 1" PER 20' OF RUN.

15.609 PROVIDE PVC DRAIN LINE FROM EACH CASE DRAIN CONNECTION SAME SIZE AS CASE OUTLET, AND END OVER FLOOR DRAIN W/AIR GAP; PITCH DRAINS 1" PER 10'.

> PROVIDE 0.020" PVC JACKET ON ALL REFRIGERATION LINES EXTERIOR TO

RELOCATE EXISTING REFRIGERATED CASE/EVAPORATOR TO NEW LOCATION AS SHOWN

15.612 PROVIDE INTERMEDIATE SUCTION LINE TRAP IN WALL OR VOID SPACE. INTERMEDIATE TRAP SHOULD BE PLACED AT THE MIDPOINT OF THE SUCTION LINE RISER.

> UTILIZE EXISTING EXTERIOR WALL OPENING AS INDICATED WHEN POSSIBLE. IF LARGER OPENING IS REQUIRED REINFORCE THE WALL AS NECESSARY, CUT THE WALL FOR THE REFRIGERATION PIPE PENETRATION, AND SUPPLY THE PIPE PENETRATION RAIN HOOD. SEAL THE WALL OPENING WITH FOAM AS SOON AS THE PIPING THROUGH THE WALL OPENING IS COMPLETE.

ROUTE PIPING THROUGH PVC CHASE. REFERENCE GROCERY ARCHITECTURAL FOR SIZE AND PVC REFRIGERATION CHASE DETAIL.

15.633 FACTORY INSTALLED PIPING. CONTRACTOR SHALL REFER TO CASE MANUFACTURER LITERATURE FOR CASE PIPING AND VALVE CONNECTIONS. CONTRACTOR SHALL CONNECT TO CASE MANUFACTURER PROVIDED RISER STUBS AND REDUCE OR INCREASE FROM RISER STUBS SIZES TO MATCH PIPING SCHEDULE. CAP UNUSED SECONDARY RISER AS NEEDED.

15.636 REFRIGERATION CONTRACTOR SHALL PROVIDE LIQUID LINE SOLENOID, EVAPORATOR PRESSURE REGULATOR, AND FULL PORT ISOLATION BALL VALVES IN A SERVICE ACCESSIBLE LOCATION INSIDE CASE DRAIN PAN.

15.638 REFRIGERATION CONTRACTOR SHALL EVAPORATOR PRESSURE REGULATOR, AND FULL PORT ISOLATION BALL VALVES ON TOP OF WALK-IN BOX. MOUNT NEAR EDGE OF WALK-IN FOR SERVICE ACCESS. COORDINATE WITH EDGE PROTECTION SYSTEM. REF ARCHITECTURAL.

PIPING SCHEDULE RACK B **ESTIMATED** VERTICAL SUCTION RISER AS REQUIRED LIQUID LENGTH\*\* \*\*\*\*7/8 \*\*\*\*1/2

\*\*\*\*1 1/8

\*\*\*\*5/8

NOTE: REFERENCE ARCHITECTURAL DRAWINGS

FOR ALL NEW CASES BEING INSTALLED FOR

CONNECTION LOCATION OF UTILITIES. (TOP

FED VS. BOTTOM FED)

185

RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND TO BE USED IN THE EVENT THAT A PIPING CONFLICT CAUSES THE NEED FOR A RISER. IF RISER LENGTH EXCEEDS 4 FEET, IT MUST BE APPROVED BY ENGINEER OF RECORD.

\*\*ESTIMATED TOTAL LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS. THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH WILL VARY.

PIPING SCHEDULE RACK C									
		VERTICAL		ESTIMATED					
PIPE	HORIZONTAL	SUCTION RISER		TOTAL					
DESIGNATION	SUCTION	AS REQUIRED	LIQUID	LENGTH**					
C1	****5/8	****1/2	5/8	275					
C2	****5/8	****1/2	5/8	295					
C7	****1 3/8	****1 1/8	****5/8	270					
C8	****1 3/8	****1 1/8	****5/8	295					
C9	1 3/8	****5/8	5/8	265					
C11	1 3/8	****1 1/8	7/8	105					

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GENERAL NOTES

- PLAN INDICATES GENERAL ROUTING OF REFRIGERANT LINES, WITH A SINGLE LINE SHOWN INDICATING BOTH SUCTION AND LIQUID LINE ROUTING FOR EACH
- REFRIGERATION SYSTEM INSTALLATION SHALL BE IN COMPLETE CONFORMANCE WITH SPECIFICATIONS, AND WITH ALL
- REQUIREMENTS OF REFRIGERATION EQUIPMENT MANUFACTURER. REFRIGERATION DRAWINGS ARE PROVIDED AS AN AID TO BIDDERS AND TO INDICATE
- DESIRED ROUTING OF REFRIGERATION LINES; CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR CORRECT INSTALLATION OF PIPING AND ACCESSORIES TO PROVIDE A COMPLETE AND FULLY OPERATING SYSTEM.
- PRIOR TO OPENING ANY RACK SYSTEMS TO ADD OR REPLACE CASES, EVAPORATORS, ETC INSTALL NEW SUCTION FILTER IN THE SUCTION LINE CANISTER. THEN 24 TO 48 HOURS AFTER THE WORK IS COMPLETED AND ALL FINAL ADJUSTMENTS HAVE BEEN MADE, PROVIDE AND CHANGE LIQUID LINE FILTER CORES, OIL SYSTEM FILTER USING SPORLAN OF STYLE FILTER, AND SUCTION FILTERS. FILTERS ARE TO BE RATED FOR WAX REMOVAL. CONTRACTOR TO PROPERLY DISPOSE OF OIL AND COMPONENTS REPLACED.
- REFER TO SPECIFICATION 15600 FOR INSULATION THICKNESS. INSIDE DIAMETER OF INSULATION SHALL MATCH PIPE DIAMETER TO MINIMIZE AIR GAPS BETWEEN PIPING AND INSULATION. PROVIDE FACTORY PRE-MANUFACTURED INSULATION FITTINGS AT ALL TRAPS, ELBOWS, AND TEES. INSULATE VALVES AND REDUCERS WITH FIELD FABRICATED INSULATION FITTINGS PER MANUFACTURER'S INSTRUCTIONS. WHERE PRE-MANUFACTURED FITTINGS ARE UNAVAILABLE, MITER CUT FITTINGS SHALL BE USED WITH OWNER'S MECHANICAL CONSTRUCTION MANAGER APPROVAL.
- PIPE INSULATION SHALL BE BLACK. REFER TO SPECIFICATION 15600.
- INSTALL PIPE INSULATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PENETRATIONS REQUIRE THE HOLE TO BE PATCHED WITH 26 GAUGE GALVANIZED SHEET METAL TRIM, FOAM SEALED AND TRIMMED FLUSH, THEN COATED WITH SILICONE SEALANT ON BOTH THE INSIDE AND OUTSIDE OF THE

FREEZER WALK-INS AND LOW TEMP CASE

COORDINATE REFRIGERATION DEMOLITION ISSUES WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR REFRIGERATION EQUIPMENT DEMOLITION AND COOLER REPAIR AND REMODELING.

REFRIGERATION SYSTEM SHALL REMAIN

- OPERATIONAL DURING REMODELING. DURING THE PHASING OF OLD TO NEW SYSTEMS, BOTH NEW AND OLD REFRIGERATION SYSTEMS MAY BE REQUIRED TO OPERATE AT THE SAME TIME FOR A SHORT PERIOD. WHERE NEW REFRIGERATED EQUIPMENT IS
- INDICATED ON THE DRAWINGS, PROVIDE DEMOLITION, REMOVAL, AND TEMPORARY STORAGE OF OLD EQUIPMENT PER WALMART MECHANICAL CONSTRUCTION MANAGER'S INSTRUCTIONS, AND REFRIGERATION DEMO NOTES. REFER TO ARCHITECTURAL. 12. COORDINATE REMOVAL AND DISPOSAL OF
- EVAPORATORS AND REFRIGERATED CASES WITH WALMART MECHANICAL SERVICES CONSTRUCTION MANAGER. 13. REMOVE COPPER LINES, EVAPORATORS,

EXISTING REFRIGERATION EQUIPMENT,

- AND CONDENSATE LINES FROM COOLERS/ FREEZERS BEING REMOVED FROM SITE.
- 14. COOLER/FREEZER BOX MANUFACTURER SHALL PROPERLY PREPARE ALL COOLER/FREEZER PANELS, GLASS DOORS, SLIDER OR SWING DOORS, PALLETIZE, AND PREPARE THE EQUIPMENT TO SHIP OFF SITE.
- COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR THE REMOVAL OF SPRINKLERS FOR ALL REMOVED COOLER/FREEZER BOXES.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE REMOVAL OF ALL REMOVED COOLER/FREEZER BOXES ELECTRICAL WIRING DEVICES.
- 17. COORDINATE WITH EMS CONTRACTOR FOR THE REMOVAL OF ALL REMOVED COOLER/FREEZER BOXES EMS WIRING AND DEVICES.

18. EXISTING REFRIGERATION PIPING MAY BE

- RE-USED. RE: REFRIGERATION LEGENDS FOR PIPE SIZE REQUIREMENTS. 19. BUILDING COMPONENTS ABANDONED BY THE
- SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
- REFERENCE REFRIGERATION SCHEDULE FOR EVAPORATOR PRESSURE REGULATORS AND LIQUID LINE SOLENOID VALVES TO BE REPLACED IF APPLICABLE.
- 21. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL WORK BY REFRIGERATION CONTRACTOR.
- 22. AT ANY WALK-INS BEING REPLACED, CONTRACTOR SHALL SALVAGE EXISTING DATA REPEATER AND TURN-OVER TO STORE MANAGER FOR STORAGE AND LATER RE-INSTALLATION BY WALMART.

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND E-MAIL TO NSRM@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. THEN SEND A FOLLOW UP E-MAIL TO NSRM@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND

SEPARATE CONTRACTOR IS RESPONSIBLE FOR RE-SKIN OF EXISTING REFRIGERATED CASES

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

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

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

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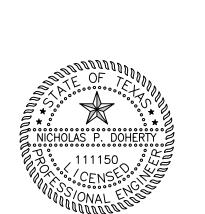
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