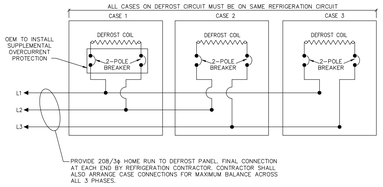
208V SINGLE PHASE ELECTRIC DEFROST FROM 208V THREE PHASE FEED

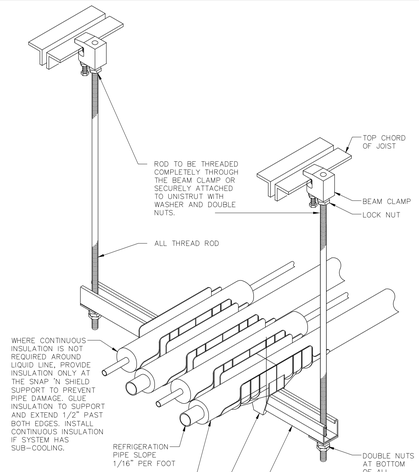
(3 CASE MINIMUM REFRIGERATION CIRCUIT)*



*CIRCUITS WITH LESS THAN 3 CASES TO HAVE A 208/1ϕ HOME RUN FROM EACH CASE TO DEFROST PANEL.

CONVENTIONAL CONTROL ELECTRIC DEFROST WIRING	DATE: 11/18/15 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–13

ORIGINAL ISSUE DATE 9/11/09

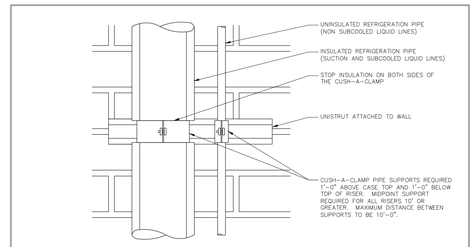


Note:

ATTACHMENTS CAN BE MADE TO EITHER TOP CHORD OF JOIST OR UNISTRUT CHANNEL SPANNING TOP JOIST. ATTACHMENT OF FIXTURES TO BOTTOM CHORD OF STEEL OR ROOF METAL DECKING WILL NOT BE PERMITTED.

Detail Based on:
SNAP 'N SHIELD PIPE SUPPORT BY COOPER B-Line.

REFRIGERATION PIPE SUPPORT DETAIL	DATE: 6/14/17 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–33

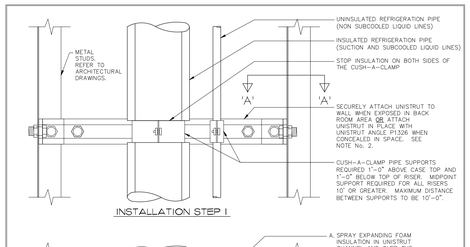


NOTE:

1. STEPS A AND B REQUIRED FOR SUCTION AND SUBCOOLED LIQUID LINES ONLY.

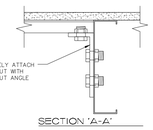
WALL MOUNTED REFRIGERATION PIPING RISER SUPPORT	DATE: 6/14/17 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–34

ORIGINAL ISSUE DATE 1/14/13



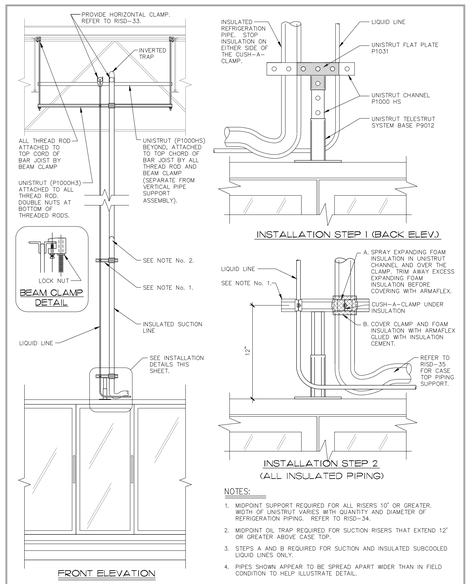
NOTES:

1. STEPS A AND B REQUIRED FOR SUCTION AND SUBCOOLED LIQUID LINES ONLY.
2. WITHIN STUD SPACE, UNISTRUT CHANNEL SERIES P4000 OF SHORTEST MANUFACTURER'S HEIGHT TO BE USED DUE TO SPACE CONSTRAINTS.



STUD WALL CAVITY REFRIGERATION PIPING RISER	DATE: 6/14/17 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–34A

ORIGINAL ISSUE DATE 11/5/13



NOTES:

1. MIDPOINT SUPPORT REQUIRED FOR ALL RISERS 10' OR GREATER. WIDTH OF UNISTRUT VARIES WITH QUANTITY AND DIAMETER OF REFRIGERATION PIPING. REFER TO RISD-34.
2. MIDPOINT OIL TRAP REQUIRED FOR SUCTION RISERS THAT EXTEND 12" OR GREATER ABOVE CASE TOP.
3. STEPS A AND B REQUIRED FOR SUCTION AND INSULATED SUBCOOLED LIQUID LINES ONLY.
4. PIPES SHOWN APPEAR TO BE SPREAD APART WIDER THAN IN FIELD CONDITION TO HELP ILLUSTRATE DETAIL.

FREESTANDING REFRIGERATION PIPING RISER SUPPORT	DATE: 6/14/17 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–34B

ORIGINAL ISSUE DATE 1/30/15

NOTES:

THIS DETAIL IS TYPICAL FOR ALL CASE TOP PIPING. PIPING TO BE KEPT AS CLOSE TO REAR OF CASES AS PRACTICAL AND TO BE ROUTED NO HIGHER THAN NECESSARY. SUCTION LINES TO CONNECT AT TOP. FOR CONVENTIONAL REFRIGERANTS LIQUID LINES TO FEED FROM BOTTOM OR END (SHOWN). FOR CO2 REFRIGERANT LIQUID LINES TO FEED FROM SIDE OR END (NOT SHOWN).

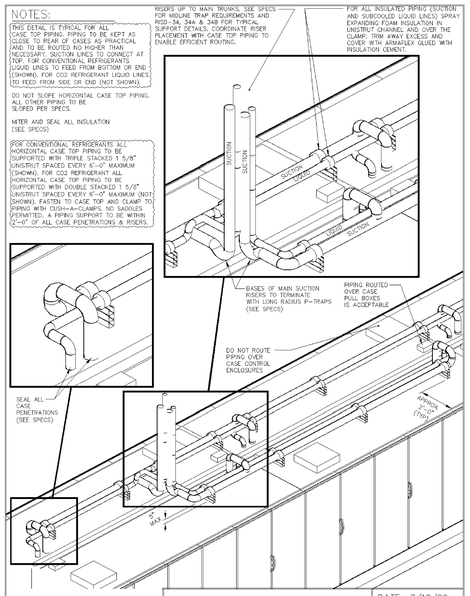
DO NOT SLOPE HORIZONTAL CASE TOP PIPING. ALL OTHER PIPING TO BE SLOPED PER SPECS.

MITER AND SEAL ALL INSULATION (SEE SPECS)

FOR CONVENTIONAL REFRIGERANTS ALL HORIZONTAL CASE TOP PIPING TO BE SUPPORTED WITH TRIPLE STACKED 1 5/8" UNISTRUT SPACED EVERY 6'-0" MAXIMUM (SHOWN). FOR CO2 REFRIGERANT ALL HORIZONTAL CASE TOP PIPING TO BE SUPPORTED WITH DOUBLE STACKED 1 5/8" UNISTRUT SPACED EVERY 6'-0" MAXIMUM (NOT SHOWN). FASTEN TO CASE TOP AND CLAMP TO PIPING WITH CUSH-A-CLAMPS. NO SADDLES PERMITTED. A PIPING SUPPORT TO BE WITHIN 2'-0" OF ALL CASE PENETRATIONS & RISERS.

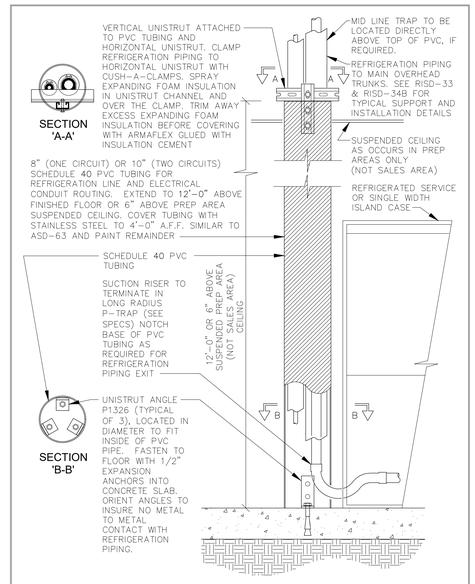
RISERS UP TO MAIN TRUNKS. SEE SPECS FOR MIDLINE TRAP REQUIREMENTS AND RISD-34, 34A & 34B FOR TYPICAL SUPPORT DETAILS. COORDINATE RISER PLACEMENT WITH CASE TOP PIPING TO ENABLE EFFICIENT ROUTING.

FOR ALL INSULATED PIPING (SUCTION AND SUBCOOLED LIQUID LINES) SPRAY EXPANDING FOAM INSULATION IN UNISTRUT CHANNEL AND OVER THE CLAMP. TRIM AWAY EXCESS AND COVER WITH ARMAFLEX GLUED WITH INSULATION CEMENT.



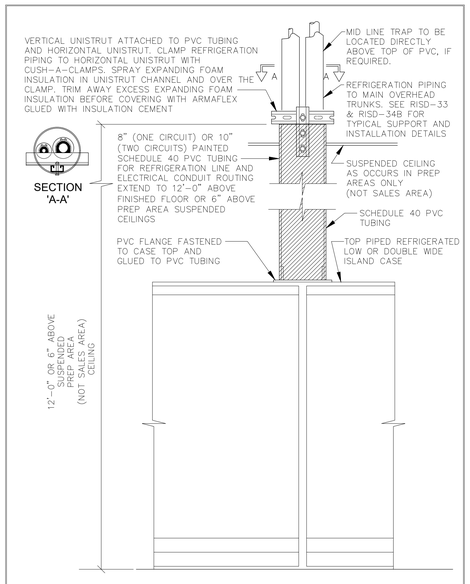
CASE TOP PIPING	DATE: 7/18/22 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–35

ORIGINAL ISSUE DATE 11/5/13



SERVICE CASE AND SINGLE WIDE ISLAND REFRIGERATION RISERS	DATE: 3/9/18 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–36

ORIGINAL ISSUE DATE 6/14/17



LOW AND DOUBLE WIDE ISLAND REFRIGERATION RISERS	DATE: 3/9/18 SCALE: NONE DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD–36A

ORIGINAL ISSUE DATE 6/14/17

- FOR REFERENCE ONLY -

GENERAL NOTES :

UNLESS NOTED OTHERWISE, ALL EQUIPMENT IS TO BE CONSIDERED TO BE FULL EXTENT OF EXISTING, NEW, AND/OR RELOCATED EQUIPMENT SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

INFORMATION FOR THIS PLAN WAS TAKEN FROM ARCHITECTURAL PLANS DATED _____ AND KROGER PLANS DATED _____. ALL WORK MUST BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION. CONTACT THE KROGER ENGINEER IF ANY DISCREPANCIES ARE FOUND.

NOTE:
THE DRAWING IS INTENDED ONLY TO SHOW THE REQUIREMENTS OF THE KROGER CO. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES AND APPROVAL OF THE INSPECTION AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS.

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FACILITY ENGINEERING
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FAX (513) 762-4092

MINOR WITHIN THE WALLS

D-409
12731 S SAGINAW ST
GRAND BLANC, MI 48439

CURRENT PLAN DATE: 7/6/2023
ORIGINAL PLAN DATE: 7/6/2023
DRAWN: D. GRIESSMANN
CHECKED:
REVISIONS:

STANDARD PLOTTED SCALE: NO SCALE

BUILDING STATS:

TOTAL SHELVING	3,756 SF
SALES AREA	60,613 SF
% OF GROSS BUILDING	67 %
BASE STORE	84,928 SF
MEZZANINE	1,951 SF
DOCK / UTILITY	4,097 SF

GROSS BUILDING 90,976 SF

REFRIGERATION STANDARD DETAILS

STEEL PACKAGE ID: D-409

SHEET: R5.1

CAD FILE:

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