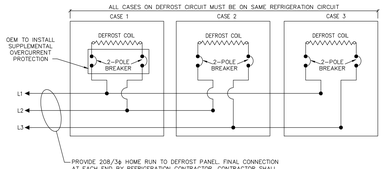
208V SINGLE PHASE ELECTRIC DEFROST FROM 208V THREE PHASE FEED

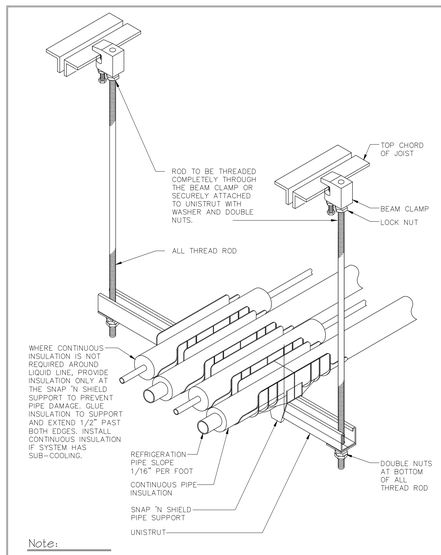
(3 CASE MINIMUM REFRIGERATION CIRCUIT)*



*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

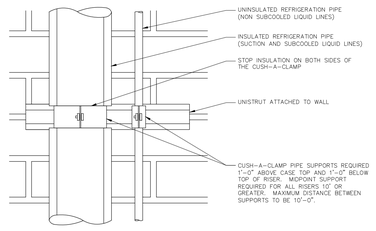


Note:

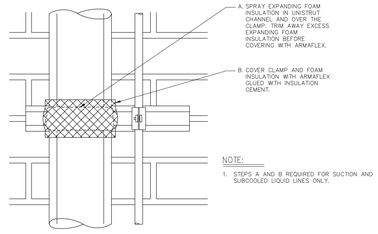
ATTACHMENTS CAN BE MADE TO EITHER TOP CHORD OF JOIST OR UNISTRUT CHANNEL SPANNING TOP JOIST. ATTACHMENT OF FIXTURES TO BOTTOM CHORD OF STEEL OR ROOF METAL DECKING WILL NOT BE PERMITTED.

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



INSTALLATION STEP 1

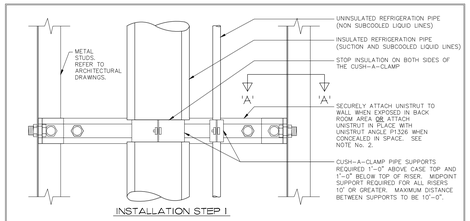


NOTE:
1. STEPS A AND B REQUIRED FOR SUCTION AND SUBCOOLED LIQUID LINES ONLY.

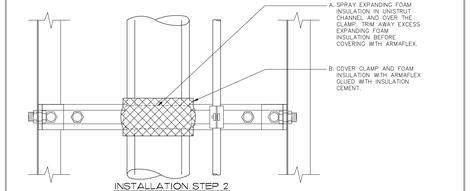
INSTALLATION STEP 2
(ALL INSULATED PIPING)

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

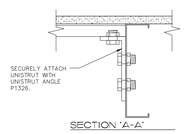


INSTALLATION STEP 1



INSTALLATION STEP 2
(ALL INSULATED PIPING)

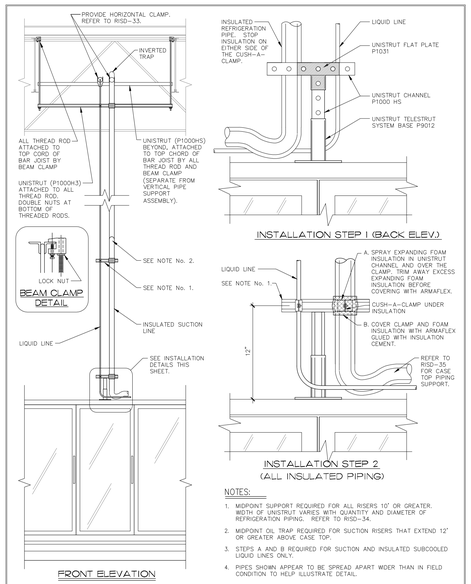
NOTES:
1. STEPS A AND B REQUIRED FOR SUCTION AND SUBCOOLED LIQUID LINES ONLY.
2. WITHIN STUD SPACE, UNISTRUT CHANNEL SERIES P4000 OF SHORTEST MANUFACTURER'S HEIGHT TO BE USED DUE TO SPACE CONSTRAINTS.



SECTION 'A-A'

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



INSTALLATION STEP 1 (BACK ELEV.)

INSTALLATION STEP 2
(ALL INSULATED PIPING)

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.

FRONT ELEVATION

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

ORIGINAL ISSUE DATE 1/30/15

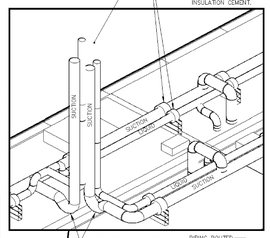
NOTES:
THIS DETAIL IS TYPICAL FOR ALL CASE TOP PIPING. PIPING TO BE KEPT AS CLOSE TO REAR OF CASES AS PRACTICAL AND TO BE ROUTED NO HIGHER THAN NECESSARY. SUCTION LINES TO CONNECT AT TOP. FOR CONVENTIONAL REFRIGERANTS LIQUID LINES TO FEED FROM BOTTOM OR END (SHOWN). FOR CO2 REFRIGERANT LIQUID LINES TO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

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

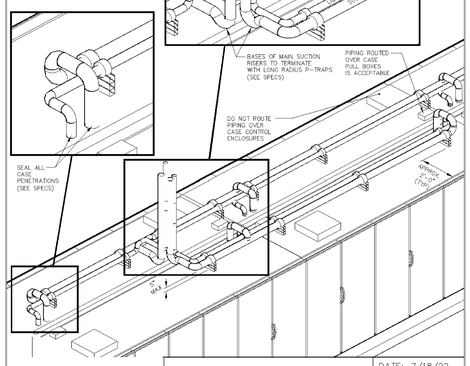
MITER AND SEAL ALL INSULATION (SEE SPECS)

FOR CONVENTIONAL REFRIGERANTS ALL HORIZONTAL CASE TOP PIPING TO BE SUPPORTED WITH TRIPLE STACKED 1 5/8" UNISTRUT SPACED EVERY 4'-0" MAXIMUM (SHOWN). FOR CO2 REFRIGERANT ALL HORIZONTAL CASE TOP PIPING TO BE SUPPORTED WITH DOUBLE STACKED 1 5/8" UNISTRUT SPACED EVERY 4'-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 6"-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.

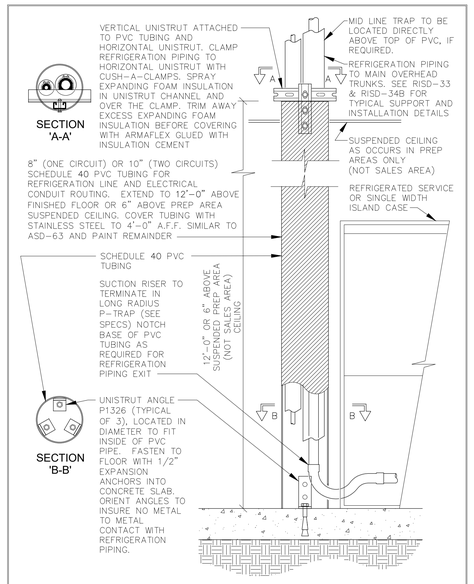


FOR ALL INSULATED PIPING (SUCTION AND SUBCOOLED LIQUID LINES) SPRAY EXPANDING FOAM INSULATION IN UNISTRUT CHANNEL AND OVER THE CLAMP. TRIM AWAY EXCESS AND COVER WITH ARMAFLEX GLUED WITH INSULATION CEMENT.



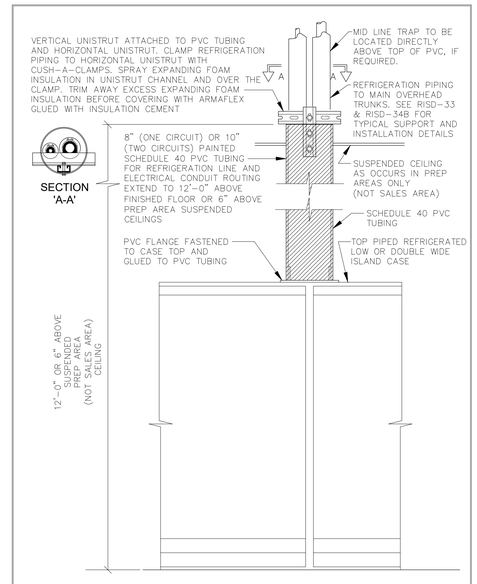
CASE TOP PIPING	DATE: 7/18/22
	SCALE: NONE
	DRAWN: ZAW
MASTER INSTALLATION DETAIL	RISD-35

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 :

ALL EQUIPMENT IS TO BE CONSIDERED THE FULL EXTENT OF EXISTING, NEW, AND/OR RELOCATED EQUIPMENT SHALL BE INSTALLED AS SHOWN ON THESE DRAWINGS. UNLESS NOTED OTHERWISE, ALL WORK SHALL BE PERFORMED BY A KROGER APPROVED CONTRACTOR.

INFORMATION FOR THIS PLAN WAS TAKEN FROM ARCHITECTURAL PLANS DATED _____ AND KROGER PLANS DATED _____. ALL WORK MUST BE VERIFIED AT JOB SITE. IF CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THESE PLANS, CONTACT THE KROGER REPRESENTATIVE BEFORE PROCEEDING WITH ANY WORK.

NOTE:
THIS DRAWING IS INTENDED ONLY TO SHOW THE REQUIREMENTS OF THE KROGER CO. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS, ORDINANCES AND APPROVAL OF THE INSPECTION AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, AND SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF THE WORK.

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PH (513) 762-1407 FAX (513) 762-4092

MINOR WITHIN THE WALLS

D-365
615 WASHTENAW AVE
ANN ARBOR, MI 48104

CURRENT PLAN DATE: 9/22/2023
ORIGINAL PLAN DATE: 7/12/2023
DRAWN: D. GRIESSMANN
CHECKED:
REVISIONS: DG 09/22/23

STANDARD PLOTTED SCALE: NO SCALE

BUILDING STATS:

TOTAL SHELVING	1,950 LF
SALES AREA % OF GROSS BUILDING	32,686 SF 56 %
BASE STORE	48,022 SF
MEZZANINE	8,979 SF
DOCK / UTILITY	1,500 SF

GROSS BUILDING 58,500 SF

REFRIGERATION STANDARD DETAILS

STEEL PACKAGE ID: D-365

SHEET: R5.1

CAD FILE:

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