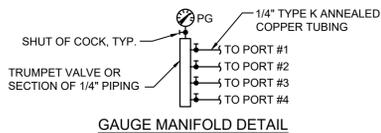
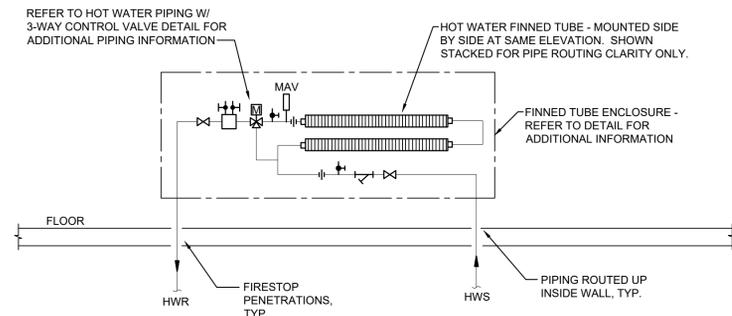


- NOTES:**
1. THE CHECK VALVE SHALL BE LINE SIZED, MATCHING THAT OF THE MAIN SYSTEM PIPING.
 2. BOTTOM OF LOWER PUMP SHALL BE LOCATED APPROXIMATELY 12" ABOVE THE FINISHED FLOOR.
 3. CONNECT COPPER TUBING TO GAUGE MANIFOLD AS DETAILED BELOW TO EACH PORT AS DETAILED ABOVE.

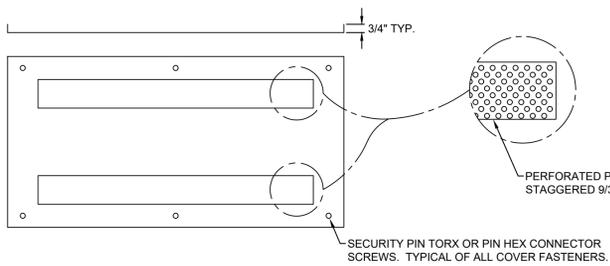


1 VERTICAL IN LINE SPLIT COUPLED PUMP SET IN STACKED ARRANGEMENT
NOT TO SCALE



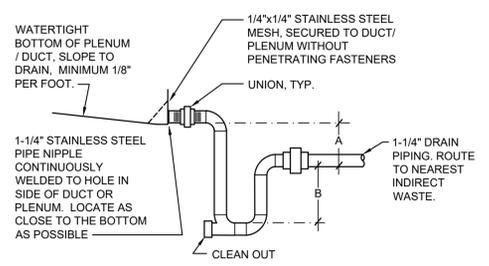
- FINNED TUBE RADIATOR NOTES:**
1. PROVIDE ENCLOSURES SO THAT ALL VALVES, CONNECTING PIPING, MANUAL AIR VENTS, ETC. INDICATED ARE FULLY CONCEALED. SECURITY COVER SHALL BE REMOVABLE FOR ACCESS TO THE SHUT OFF VALVES.
 2. SUBMIT DETAILED, DIMENSIONED SHOP DRAWINGS OF THE PROPOSED INSTALLATION BASED ON FIELD MEASUREMENTS AND THE COORDINATION DRAWING GENERATION PROCESS FOR REVIEW PRIOR TO ROUGHING IN ANY PIPING OR ORDERING MATERIALS.
 3. CONTROL VALVES SHALL BE PROVIDED WITH FLANGED ENDS OR SHALL BE PROVIDED WITH ADJACENT UNIONS TO FACILITATE REMOVAL.
 4. PIPING ROUTED IN WALL SHALL BE COPPER TUBE.
 5. PIPING WITHIN FIN TUBE ENCLOSURE MAY BE UN-INSULATED. ALL PIPING IN WALLS AND BELOW FLOORS / ABOVE CEILINGS SHALL BE INSULATED.

4 FIN TUBE RADIATOR PIPING SCHEMATICS
NOT TO SCALE



- FINNED TUBE SECURITY COVER NOTES:**
1. CONTRACTOR SHALL SUBMIT DETAILED, DIMENSIONED SHOP DRAWINGS OF THE PROPOSED INSTALLATION BASED ON FIELD MEASUREMENTS AND THE COORDINATION DRAWING GENERATION PROCESS FOR REVIEW PRIOR TO ROUGHING IN ANY PIPING OR ORDERING MATERIALS.
 2. SECURITY FINNED TUBE COVERS SHALL BE CONSTRUCTED OF 14 GA STEEL AND PROVIDED WITH PERFORATED AREAS AS INDICATED. THE CONTRACTOR MAY SUBMIT DIFFERENT PERFORATED PATTERNS FOR REVIEW.
 3. THE CONTRACTOR SHALL PROVIDE TO THE OWNER, FIVE (5) SETS OF TOOLS REQUIRED FOR COVER REMOVAL AND REPLACEMENT.

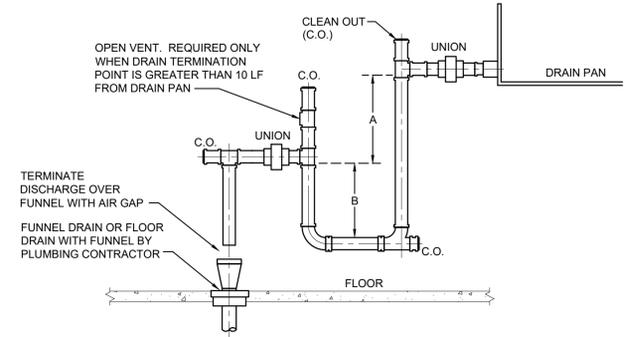
5 FINNED TUBE SECURITY COVER DETAIL
NOT TO SCALE



TRAP SIZING SCHEDULE		
DIMENSION	DRAIN TRAP LOCATION FOR NEGATIVE PRESSURE	DRAIN TRAP LOCATION FOR POSITIVE PRESSURE
A	MAX NEGATIVE SP + 1" (2" MINIMUM)	(1/2" B) + 1/2" (1-1/2" MINIMUM)
B	(1/2" A) + 1/2" (1-1/2" MINIMUM)	MAX POSITIVE SP + 1" (2" MINIMUM)

- SP = STATIC PRESSURE. UNITS ARE INCHES WATER GAUGE.
- NOTES:**
1. DRAIN PAN MAY BE LOCATED IN THE NEGATIVE OR POSITIVE PRESSURE AREA OF THE AIR STREAM. REFER TO TRAP SIZING SCHEDULE FOR DIMENSIONAL DATA REQUIRED FOR SPECIFIC DRAIN LOCATION. DESIGN STATIC PRESSURE IS THE GREATEST (MOST POSITIVE OR MOST NEGATIVE) PRESSURE ANTICIPATED AT THE TRAP LOCATION, INCLUDING THE EFFECTS OF FULLY DIRTY FILTERS.
 2. DUCT DRAIN PIPING AND INSULATION SHALL BE AS SPECIFIED FOR AC CONDENSATE DRAIN PIPING.
 3. INSULATION NOT SHOWN FOR CLARITY PURPOSES ONLY.
 4. TERMINATE DRAIN AT AN INDIRECT WASTE WITH AN AIR GAP. THE VERTICAL AIR GAP DISTANCE SHALL BE NO LESS THAN TWICE THE NOMINAL SIZE OF THE CONDENSATE DRAIN PIPE.

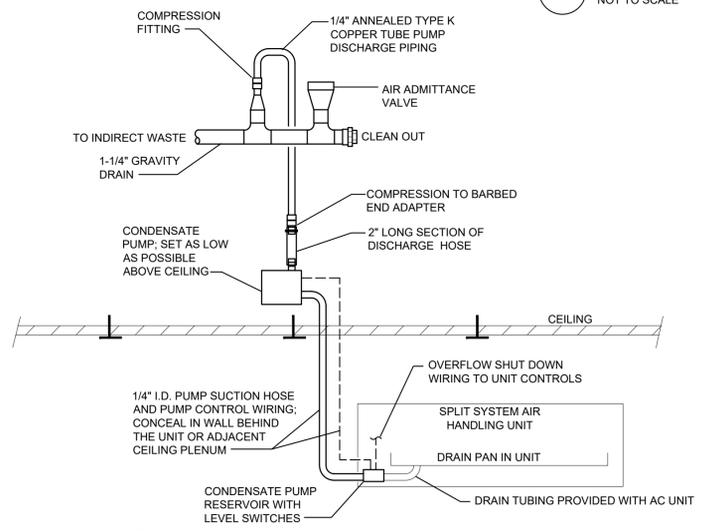
2 DUCT / PLENUM SIDE-CONNECTED DRAIN DETAIL
NOT TO SCALE



TRAP SIZING SCHEDULE		
DIMENSION	DRAIN TRAP LOCATION FOR NEGATIVE PRESSURE	DRAIN TRAP LOCATION FOR POSITIVE PRESSURE
A	DESIGN SUCTION SP + 1" (3" MINIMUM)	(1/2" B) + 1/2" (2" MINIMUM)
B	(1/2" A) + 1/2" (2" MINIMUM)	DESIGN DISCHARGE SP + 1" (3" MINIMUM)

- SP = STATIC PRESSURE. UNITS ARE INCHES WATER GAUGE.
- NOTES:**
1. DRAIN PAN MAY BE LOCATED IN THE NEGATIVE OR POSITIVE PRESSURE AREA OF THE AIR STREAM. REFER TO TRAP SIZING SCHEDULE FOR DIMENSIONAL DATA REQUIRED FOR SPECIFIC DRAIN LOCATION. DESIGN STATIC PRESSURE IS THE GREATEST (MOST POSITIVE OR MOST NEGATIVE) PRESSURE ANTICIPATED AT THE TRAP LOCATION, INCLUDING THE EFFECTS OF FULLY DIRTY FILTERS. VERIFY DIMENSIONS WITH THE UNIT MANUFACTURER.
 2. INSULATION NOT SHOWN FOR CLARITY PURPOSES ONLY.
 3. DRAIN PIPING SHALL MATCH THE CONNECTION PROVIDED ON THE DRAIN PAN, 1-1/4", OR THE MINIMUM SIZE REQUIRED BY THE INTERNATIONAL MECHANICAL CODE, WHICHEVER IS LARGEST. PROVIDE TRANSITION TO DRAIN PAN SIZE AS REQUIRED.
 4. THE VERTICAL AIR GAP DISTANCE SHALL BE NO LESS THAN TWICE THE NOMINAL SIZE OF THE CONDENSATE DRAIN PIPE.

3 AC CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE



- NOTES:**
1. PUMP SUCTION AND DISCHARGE CONNECTION HOSE SHALL BE REINFORCED PVC OR POLYETHYLENE. WHERE LOCATED IN AN AIR PLENUM, PLASTIC TUBING SHALL BE PROVIDED WITH 3M "FIRE BARRIER PLENUM WRAP 5A+", UNIFRAX "FYREWWRAP 0.5 PLENUM INSULATION", OR APPROVED EQUAL INSULATION.
 2. PROVIDE A LINESSET COVERING SYSTEM TO CONCEAL ALL PUMP SUCTION TUBING, WIRING, AND REFRIGERANT PIPING FROM VIEW IN THE FINISHED SPACE WHERE SUCH ITEMS CANNOT BE RUN IN A STUD WALL BEHIND THE AC UNIT.

6 WALL MOUNTED DUCTLESS AC UNIT CONDENSATE DETAIL
NOT TO SCALE

09/13/23	ADDENDUM #2
RECORD REVISIONS	
PROFESSIONAL'S SIGNATURE DATE	
UpStreet ARCHITECTS, INC. 541 PHILADELPHIA ST. INDIANA, PA 15701 911 MENOHER BLVD. JOHNSTOWN, PA 15905	
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA	
D.G.S. PROJECT No. C-0588-0015 PHASE 1	

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING.

0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY.

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DETAILS - MECHANICAL

DRAWN BY W. MINAHAN
CHECKED BY T. HOVAN

DATE 27 JUNE 2023
SCALE AS NOTED

SHEET No. **M-603**