- T.O. PIPES APPROX.

2-3" ABOVE FLOOR

THREE EXISTING PIPES THAT

REMOVE AND CAP BELOW

REMOVE HEATING IN THIS

ROOM. CAP STEAM AND

FLOOR LEVEL.

CONDENSATE PIPING BELOW

EXTEND ABOUT 3' ABOVE FLOOR.

FLOORE VERIFY THAT THE LINES AREMNASTRUM BEFORE REMOVALING PIPES

REMOVE EXISTING MIN-SPLIT SYSTEM

REMOVE HEATING IN THIS

CONDENSATE PIPING BELOW

ROOM, CAP STEAM AND

FLOOR LEVEL.

(2) MECHANICAL DEMOLITION PLAN

20 CFM 0A

3"Φ

20 CFM 0A

3/4" SUPPLY AND RETURN IN COVER

SCALE: 1/4" = 1'-0"

(3) MECHANICAL VENTILATION

# HEATING PIPING PLAN

Office

304D

IU-6

20 CFM 0A/

Office

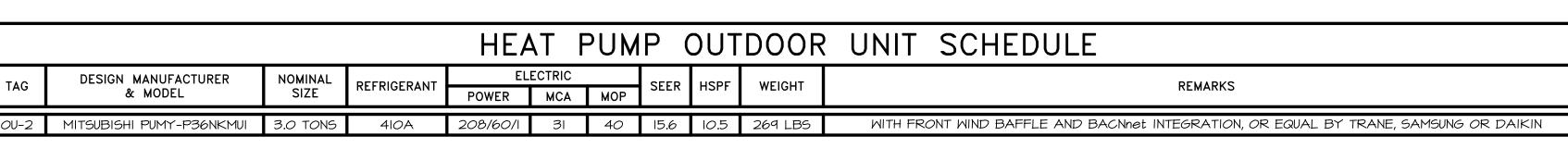
304AA

8"X8" UP TO GRS8 SPUN ALUMINUM GRAVITY HOOD ON

16" HIGH GPI GALVANIZED ROOF CURB WITH INTAKE

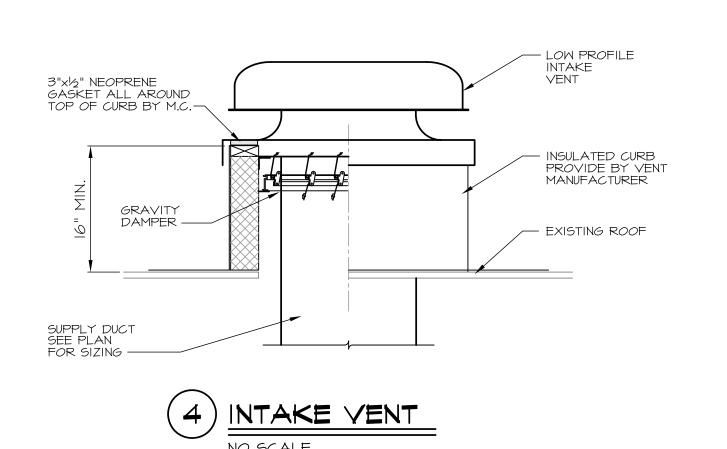
BACKDRAFT DAMPER

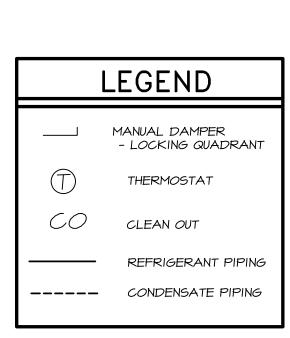
| 3"φ 20 CFM OA



	HEAT PUMP INDOOR UNIT SCHEDULE SCHEDULE										
TAG	DESIGN MANUFACTURER & MODEL	TYPE	COOLING CAPACITY BTUH	HEATING CAPACITY BTUH	CFM	МСА	МОР	WEIGHT	REMARKS		
IU-5	MITSUBISHI PMFY-P06NBMU-ER5	CEILING CONCEALED I-MAY THROW	6,000	6,700	230-307	0.25	15	31 LBS	WITH THERMOSTAT. OR EQUAL BY TRANE, SAMSUNG OR DAIKIN		
IU-6	MITSUBISHI PMFY-PO8NBMU-ER5	CEILING CONCEALED I-WAY THROW	8,000	9,000	230-395	0.25	15	31 LBS	WITH THERMOSTAT. OR EQUAL BY TRANE, SAMSUNG OR DAIKIN		
IU-7	MITSUBISHI PMFY-P06NBMU-ER5	CEILING CONCEALED I-WAY THROW	6,000	6,700	230-307	0.25	15	31 LBS	WITH THERMOSTAT. OR EQUAL BY TRANE, SAMSUNG OR DAIKIN		
1U-8	MITSUBISHI PMFY-P08NBMU-ER5	CEILING CONCEALED I-WAY THROW	8,000	9,000	230-395	0.25	15	31 LBS	WITH THERMOSTAT. OR EQUAL BY TRANE, SAMSUNG OR DAIKIN		

	IN-LINE FAN SCHEDULE									
TAG	DESIGN MANUFACTURER	TYPE	CFM	ESP	SONES	ELECTRIC		REMARKS		
TAG	& MODEL	IIFE	CFM	LSF	SUNES	POWER FLA				
IF-2	FANTECH FG4XL	IN-LINE FAN	80	0.4	1.7 MAX	115 / 60 / 1	0.65	WITH BACKDRAFT DAMPER		







- All ductwork to be fabricated and installed per SMACNA Low Pressure Ductwork Standards.
- 2. Ductwork is shown diagrammatically and does not indicate all the offsets, rises and drops that will be required.
- 3. All Outside Air Ductwork from the Air Intake Hood to the Indoor Air
- Handlers to be 1/2" Foil Faced Duct Wrap.
- 4. Install heavy duty locking quadrant at takeoffs from the main duct. 5. Provide and install Buckley Equipment support as shown on plan view.
- Coordinate with Roofing Contractor. Refer to installation detail on A600.
- 6. Provide and install roof curb, intake backdraft damper and spun aluminum aluminum gravity hood as shown on plan.
- 7. Start and Test all equipment per manufacturer's recommendations.
- 8. Provide I-year warranty on all parts. labor and refrigerant
- 9. Provice 5- year warranty on compressors (parts only)

10. Provide Owner with Maintenance Manuals - Neatly bound.

## CONTROL NOTES

- I. It will be the Mechanical Contractor's responsibility to provide and install all controls and all control wiring. Mechanical Contractor to subcontract ATC work to: IB Controls (Brian Lajeunesse) brianl@ibcontrols.com 3 Pope Road Windham, ME 04062 207-893-0080
- 2. All control wiring that is run in concealed spaces to be plenum rated. All control wiring that is run exposed shall be in electrical conduit provided and installed by the ATC contractor.
- 4. All thermostats to be provided by the Equipment Manufacturer and installed by the ATC contractor.
- 5. All zone valves and transformers to be provided by the ATC contractor for installation by mechanical contractor.
- 6. Heat Pump Manufacturer to supply BACnet gateway for integration into the campus Building Management System
- 7.1. On a call for heating enable heating.
- 7.2. On a call for cooling enable cooling.
- 7.3. During the occupied cycle enable IF-2.
- 7.4. Monitor and control IF-2 through the Building Management System.

## PIPING NOTES

- Piping is shown diagrammatically and does not indicate all the offsets, rises and drops that will be required.
- 2. All refrigerant piping to be Type "K" copper or ACR Tube
- 3. All condensate piping to be Schedule 40 PVC.
- 4. Insulate all refrigerant piping with  $\frac{1}{2}$ " closed cell insulation (Armaflex or equal),
- 5. All outdoor refrigerant piping to be painted with paint approved by insulation manufacturer

## GENERAL NOTES

- All systems are to be to meet the following Codes and Standards. 1.1. ASHRAE 90.1 2007 Energy Standard for Commercial Buildings. 1.2. ASHRAE 60.1 2007 Standard for Indoor Air Quality in Commercial
- 1.3. 2009 IECC International Energy Conservation Code.
  1.4. NFPA National Fire Protection Association Standards.

## FIRE SPRINKLER NOTES

- Provide all design services, construction documents, labor, Transportation, equipment, permits, materials, tools, inspections, incidentals, tests and perform all operations in connection with the modification of the existing Pipe Sprinkler System in the building.
- 2. Comply with requirements of all Authorities Having Jurisdiction.
- 3. Rearrange sprinkler coverage as required for new partitions.
- 4. Coordinate with interfacing trades
- . Submit equipment and components for review. Prepare sprinkler drawings and Record Drawings.
- 6. Provide I year quarantees and warranties on all new work.
- 7. The Automatic Sprinkler System shall meet the standards of the most recent edition of the National Fire Protection Association's (NFPA) \_ NFPA 13 Standard for the Installation of Sprinkler Systems.
- 8. Rooms to have sprinkler head relocations include; Room 304 A, AA, C, & D





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mith

almo

No. Date Description

Revision Schedule

JOB NO. 17064

DRWN. CHK K.F.M. SCALE:

1/4"=1'-0" ISSUE 08/04/17

PIPING FIRE SPRINKLER SHEETMETAL ROOMS 304

SHEET M101