FOR DUCT SIZES UP TO AND INCLUDING 10"ø

ROUND DUCT HANGER DETAIL

SCALE: NTS

CLEVIS HANGER
(FOR PIPES 2–1/2" & SMALLER)

PIPE HANGER ATTACHMENTS DETAIL

SCALE: NTS

SEQUENCE OF OPERATION

ENERGY RECOVERY VENTILATOR, ERV–1

1. ERV–1 WILL ENERGIZE BASED ON ITS OCCUPANCY SCHEDULE PROGRAMMED IN THE LOCAL WALL CONTROLLER. DURING OCCUPIED MODE, THE FANS SHALL BE ENABLED. THE FANS SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE.
2. DURING UNOCCUPIED MODE, THE FANS SHALL BE DISABLED.

SPLIT HEAT PUMP SYSTEM, CU–1, HP–1, HP–2

INDOOR UNIT

1. HEAT PUMP WILL UTILIZE WIRED WALL CONTROLLER WITH INTEGRAL THERMOSTAT PROVIDED BY THE MANUFACTURER.
2. THE OCCUPIED AND UNOCCUPIED SCHEDULE WILL BE SET BY THE WIRED CONTROLLER.
3. DURING OCCUPIED MODE, THE HEAT PUMP WILL MAINTAIN A CONSTANT SPACE TEMPERATURE SETPOINT OF 70 DEG F (ADJUSTABLE) IN HEATING MODE AND 75 DEG F (ADJUSTABLE) IN COOLING MODE.
3. DURING UNOCCUPIED MODE, THE HEAT PUMP WILL MAINTAIN A CONSTANT SPACE TEMPERATURE SETPOINT OF 55 DEG F (ADJUSTABLE) IN HEATING MODE AND 80 DEG F (ADJUSTABLE) IN COOLING MODE.
4. DURING OCCUPIED/UNOCCUPIED MODE, ON A RISE OR DROP IN SPACE TEMPERATURE ABOVE THE COOLING SETPOINT OR BELOW THE HEATING SETPOINT THE UNIT COMPRESSOR SHALL STAGE ON AS REQUIRED TO SATISFY THE SPACE TEMPERATURE SETPOINT.
5. DURING OCCUPIED MODE, ONCE THE SPACE TEMPERATURE IS SATISFIED THE COOLING/HEATING COIL SHALL STAGE OFF AND THE UNIT FAN SHALL RUN CONTINOUSLY.
6. DURING UNOCCUPIED MODE, ONCE THE SPACE TEMPERATURE IS SATISFIED THE COOLING/HEATING COIL SHALL STAGE OFF AND THE UNIT FAN WILL RUN FOR AN ADDITIONAL 30 SECONDS.

OUTDOOR UNIT

1. CONDENSING UNIT OPERATION SHALL BE CONTROLLED THROUGH THE WIRED CONTROLLERS. THE UNIT SHALL STAGE ON AND OFF TO MAINTAIN NECESSARY REFRIGERANT TEMPERATURE CONTROL.

BATHROOM ELECTRIC CEILING HEATER, ECH–1

1. ECH–1 SHALL ENERGIZE BASED ON A CALL FOR HEAT FROM THE LOCAL THERMOSTAT.
2. ECH–1 SHALL DE–ENERGIZE WHEN SPACE TEMP SETPOINT (ADJUSTABLE) IS MET.

ERV DETAIL

SCALE: NTS

DUCTLESS AIR CONDITIONER UNIT DETAIL

SCALE: NTS

ELECTRIC CEILING HEATER – HANGING DETAIL

SCALE: NTS

ISSUED FOR BID
NOT FOR CONSTRUCTION
JANUARY 5, 2017

STATE OF MAINE
EMILY PINYARD
No. 12126
LICENSED
PROFESSIONAL ENGINEER
01/05/17

REV	DESCRIPTION	DWN	APP	DATE
C	RE-ISSUED FOR BID	MBD	ERP	01/05/17
B	RE-ISSUED FOR BID	MBD	ERP	10/28/16
A	ISSUED FOR BID	MBD	ERP	9/02/16

ecomaine
64 BLUEBERRY ROAD, PORTLAND, ME

SCALE HOUSE WITH
INSULATED BLOCK CONSTRUCTION

MECHANICAL DETAILS

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SIZE: ANSI D
DATE: 09/02/2016
DES BY: MIF
DWN BY: MBD
CKD BY: ERP

PROJECT NO. 162.002.002
SHEET 30 OF 40
DRAWING NO. M-501

Reviewed for Code Compliance
Inspections Division
Portland, Maine
Date: 05/17/17

X:\162 EcoMaine\162.002.002 - Scale House with CMU\Drawings\Sheets\M-501.dwg - 1/5/2017 2:31 PM - ZACH JONES