HVAC LEGEND

SYMBOL (DOUBLE LINE)	DESCRIPTION
	NEW WORK
	EXISTING WORK
	DEMO WORK
	FLEXIBLE DUCT RUNOUT TO DIFFUSER
12x6	DUCT SIZE (WIDTH X DEPTH)
VD	VOLUME DAMPER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	CROSS SECTION OF SUPPLY DUCT
	CROSS SECTION OF EXHAUST AIR DUCT
	CROSS SECTION OF RETURN AIR DUCT
	CROSS SECTION OF ROUND DUCT
	DUCT ELBOW WITH TURNING VANES
	DUCT ELBOW WITHOUT TURNING VANES
12x6	ACOUSTICAL LINING DUCT DIMENSION IS ID
	TRANSFER DUCT (WITH LINER)
NECK SIZE–TAG–CFM	ROUND OR SQUARE CEILING SUPPLY DIFFUSER (SEE SCHEDULE) 4–WAY THROW UNLESS INDICATED OTHERWISE.
NECK SIZE–TAG–CFM	ROUND OR SQUARE CEILING EXHAUST REGISTER (SEE SCHEDULE)
NECK SIZE–TAG–CFM	ROUND OR SQUARE CEILING RETURN REGISTER (SEE SCHEDULE)
NECK SIZE–TAG–CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
NECK SIZE–TAG–CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
NECK SIZE–TAG–CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
NECK SIZE–TAG–CFM	WALL SUPPLY/RETURN REGISTER (SEE SCHEDULE)
TAG–CFM (S)	SOFFIT SUPPLY DIFFUSER (SEE DETAIL 2 ON M12.01)
FSD X	COMBINATION FIRE/SMOKE DAMPER
	OCCUPANCY SENSOR TIED TO BMS SYSTEM
1 M–1	DETAIL 1, DRAWING M–1
HP 1	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1
	COLD WATER
	HOT WATER (120°F)
	HOT WATER CIRC (120°F)
	BALL VALVE
M	WATER FLOW METER
CS08	METER TAG

ABBREVIATIONS

ARCH	ARCHITECT
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALL VALVE OR BALANCING VALVE
BYV	BUTTERFLY VALVE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CP	CONDENSATE PUMP
CR	CONDENSATE RETURN
CS	CIRCUIT SETTER
CTE	CONNECT TO EXISTING
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CONSTANT VOLUME
CW	COLD WATER
D	DROP OR DRAIN
DBT	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DGP	DATA GATHERING PANEL
DIA	DIAMETER
DIFF	DIFFERENCE
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPT	DEW POINT TEMPERATURE
DSD	DUCT SMOKE DETECTOR
DV	DIAPHRAGM VALVE
DWG	DRAWING(S)
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR OR EACH
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
ECON	ECONOMIZER
ED	EXTRACTOR DAMPER
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWBT	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXH	EXHAUST
EXT	EXTERNAL
F	FAHRENHEIT OR FILTER
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FF	FINAL FILTER OR FINISHED FLOOR
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
FT	FOOT OR FEET
G	GAS
GA	GAUGE, GAGE
GAL	GALLONS
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIB
HC	HEATING COIL
HD	HEAD
HOR	HORIZONTAL
HP	HORSEPOWER OR HEAT PUMP
HR	HOUR(S)
HVAC	HEATING, VENTILATING & AIR COND.
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KW	KILOWATT
(L)	ACOUSTICALLY LINED
MBH	THOUSAND BTU PER HOUR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
(N)	NEW
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OSA	OUTSIDE AIR
OV	OUTLET VELOCITY
P	PUMP OR PRESSURE OR POLE
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PF	PREFILTER
PH	PHASE (ELECTRICAL)
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
REV.	REVISE OR REVISION OR REVOLUTIONS
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S	TEMPERATURE SENSOR
SCFM	CFM, STANDARD CONDITIONS
SD	SMOKE DAMPER
SF	SUPPLY FAN
SN	(X) SHEET NOTE
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ IN	SQUARE INCH
ST	STRAINER OR SOUND TRAP
STD	SPLITTER DAMPER OR STANDARD
STRUCT	STRUCTURAL
T	THERMOMETER OR THERMOSTAT
TCP	TEMPERATURE CONTROL PANEL
TD	TRANSFER DUCT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TI	TENANT IMPROVEMENT
TRG	TRANSFER GRILLE
TS	TEMPERATURE SENSOR
TT	TEST TAP OR TEST TEE
TYP	TYPICAL
V	VENT OR VOLT OR VELOCITY
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WASTE OR WIDTH OR WATTS
W/	WITH
W/O	WITHOUT
WBT	WET BULB TEMPERATURE
WG	WATER GAUGE

GENERAL NOTES - MECHANICAL

1. VERIFY ALL CONNECTIONS TO EXISTING WORK.
2. CONTRACTORS SHALL VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO SUBMITTING PROPOSAL.
3. DURING ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN ADEQUATE FIRE EXTINGUISHERS READY FOR USE IN CASE OF FIRE.
4. PROTECTION OF PUBLIC: THE CONTRACTOR SHALL PROTECT THE PUBLIC FROM INJURY DURING PROGRESS OF THE WORK BY POSTING WARNING SIGNS, GUARD LIGHTS AND BARRICADES.
5. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL & PLUMBING CHARACTERISTICS WITH ALL SUB CONTRACTOR. ALL ELECTRICAL APPARATUS SERVING THE MECHANICAL EQUIPMENT SHALL FULLY COMPLY WITH ELECTRICAL AND CONTROL REQUIREMENTS.
6. OBTAIN WRITTEN PERMISSION OF ARCHITECT BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS.
7. FURNISH AND INSTALL MATERIALS, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR COMPLETE WORKABLE SYSTEMS.
8. RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
9. PROVIDE TWO SETS OF "AS–BUILT" DRAWINGS AND TWO BOUND SETS OF ALL OPERATIONS MANUALS, DIAGRAMS, SERVICE CONTRACTS, GUARANTEES, ETC. TO THE PROPERTY MANAGER. PROVIDE ONE SET OF "AS–BUILT" DRAWINGS TO ARCHITECT.
10. WHERE APPLICABLE, THERMOSTATS SHALL BE ABLE TO:
    a. MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEGREES TO 85 DEGREES.
    b. SEQUENCE HEATING AND COOLING AND PROVIDE A 5 DEGREES DEADBAND IN WHICH NO HEATING OR COOLING IS PROVIDED TO THE SPACE.
11. PROVIDE THE MANUFACTURERS AND CODE REQUIRED CLEARANCES BETWEEN EQUIPMENT CONTROLS AND BEAMS, PIPES, DUCTS, LIGHT FIXTURES, CONDUITS, WALLS OR OTHER OBSTRUCTIONS.
12. THERMOSTAT HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR IN MANAGER'S OFFICE. LOCATIONS OF REMOTE TEMPERATURE SENSORS IN SALES AREA ARE TO BE APPROVED BY PM.
13. ALL PIPE AND DUCT INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL ENERGY CODE.
14. MECHANICAL SYSTEM CONTROLS SHALL MEET THE REQUIREMENT OF THE LOCAL ENERGY CODE AND BE ABLE TO INTERFACE WITH EXISTING BUILDING CONTROLS.
15. PROVIDE REQUIRED DUCT AND PIPING INSULATION PER THE LOCAL ENERGY CODE.
16. CONTRACTOR SHALL PROVIDE ALL CODE REQUIRED MECHANICAL EQUIPMENT AND PIPE SEISMIC RESTRAINT. THE SEISMIC RESTRAINTS SHALL BE DESIGNED AND STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF THE PROJECT.
17. ALL RIGID ROUND OR OVAL DUCT SHALL BE SPIRAL WOUND, TYPICAL.

MECHANICAL DRAWING LIST

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State of Registration MAINE
Firm Registration No. N/A
EEA Project No. 20166538

DRAWN BY: ARC
CHECKED BY: BKK

STATE OF MAINE
Michael N. Hart
No. 10507
LICENSED PROFESSIONAL ENGINEER
11-22-16

west elm
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Portland, ME 04101
PROJECT #006-160335.00

ISSUED / REVISED	DATE
PRELIMINARY SET	09/08/16
LL COORDINATION SET	11/08/16
LL/PERMIT SET	11/21/16

MECH INFORMATION AND DRAWING LIST- MECHANICAL

M-001