

ABBREVIATIONS		MECHANICAL SYMBOLS		PIPING SYMBOLS		GENERAL NOTES	
<p> Θ AT A AMP ABS ACRYLONITRILE BUTADIENE STYRENE PLASTIC ABV ABOVE AC AIR CONDITIONING AD ACCESS DOOR ADA AMERICANS WITH DISABILITIES ACT AF AIR FILTER AF ABOVE FINISHED FLOOR AFM AIR FLOW MEASURING STATION AHU AIR HANDLING UNIT AL ACOUSTICAL LINER AMB AMBIENT AP ACCESS PANEL APD AIR PRESSURE DROP APPROX APPROXIMATELY AS AIR SEPARATOR ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASSY ASSEMBLY ATC AUTOMATIC TEMPERATURE CONTROL ATT ACOUSTICAL ATTENUATOR AV AUTOMATIC VENT BDD BACKDRAFT DAMPER BHP BRAKE HORSEPOWER BLDG BUILDING BOT BOTTOM BTUH BTU PER HOUR C CENTERLINE CA COMPRESSED AIR CAP CAPACITY CD CONDENSATE DRAIN CF CUBIC FEET CFM CUBIC FEET PER MINUTE CH CHILLER CHWR CHILLED WATER RETURN CHWS CHILLED WATER SUPPLY CLG CELING CO CLEAN OUT, CARBON MONOXIDE COL COLUMN CONC CONCRETE COND CONDENSATE CONN CONNECTION CONT CONTINUATION CONV CONVECTOR CP CONTROL PANEL, CONDENSATE PUMP CPT CONDENSATE PUMP TRAP CSA CANADIAN STANDARDS ASSOCIATION CU CONDENSING UNIT CUH CABINET UNIT HEATER CV CONTROL VALVE Cv CONTROL VALVE RATING CVT CONSTANT VOLUME AIR TERMINAL CW COLD WATER CWR COLD WATER RETURN CWS COLD WATER SUPPLY D DRAIN dB DECIBELS DB DRY BULB DC DRY COOLER DDC DIRECT DIGITAL CONTROL Ø, DIA DIAMETER DIFF DIFFERENTIAL, DIFFUSER DISCH DISCHARGE DN DOWN DOM DOMESTIC DP DIFFERENTIAL PRESSURE DWG DRAWING DWGS DRAWINGS E ELECTRIC EA EXHAUST AIR EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR EDR EQUIVALENT DIRECT RADIATION EER ENERGY EFFICIENT RATIO EF EXHAUST FAN EFF EFFICIENCY ELEC ELECTRIC, ELECTRICAL ELEV ELEVATION ENT ENTERING EPDM ETHYLENE PROPYLENE DIENE MEMBRANE EQUIP EQUIPMENT ESP EXTERNAL STATIC PRESSURE ET EXPANSION TANK EVAP EVAPORATOR EWC ELECTRIC WATER COOLER EWI ENTERING WATER TEMPERATURE EXH EXHAUST EXIST EXISTING EXT EXPANSION TANK </p>	<p> EXP EXPANSION F FAN, DEGREES FAHRENHEIT FA FRESH AIR FAI FRESH AIR INTAKE FBG FURNISHED BY GOVERNMENT FC FLEX CONNECTION FCO FLOOR CLEANOUT FD FIRE DAMPER, FLOOR DRAIN FF FINISH FLOOR FIX FIXTURE FLA FULL LOAD AMPS FLR FLOOR FOB FLAT ON BOTTOM FOT FLAT ON TOP FS FLOAT SWITCH FTR FIN TUBE RADIATION FZ FREEZE/STAT G GAS GA GAUGE GAL GALLONS GALV GALVANIZED GC GENERAL CONTRACTOR GP GENERAL PURPOSE GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GR GLYCOL RETURN GRH GRAVITY RELIEF HOOD GS GLYCOL SUPPLY GV GATE VALVE GSM GALVANIZED SHEET METAL GYP GYPSUM WALLBOARD HC HEATING COIL HOA HANDS-OFF-AUTOMATIC HOR HORIZONTAL HP HORSEPOWER, HIGH PRESSURE HPC HIGH PRESSURE CONDENSATE HPS HIGH PRESSURE STEAM (16 PSI TO 150 PSI) HR HOUR HT HEIGHT HUMID HUMIDIFIER, HUMIDITY HV HEATING AND VENTILATING UNIT HVAC HEATING, VENTILATING AND AIR CONDITIONING HW HOT WATER HWR HOT WATER RETURN HWS HOT WATER SUPPLY HX HEAT EXCHANGER HZ HERTZ IBR HYDRONICS INSTITUTE ID INSIDE DIAMETER IN INCHES INDIR INDIRECT WASTE KW KILOWATT L LENGTH, LOUVER LAT LEAVING AIR TEMPERATURE LD LIQUEFIED PETROLEUM LDB LEAVING DRY BULB LF LINEAR FEET LG LONG LOC LOCATION, LOCATED LP LIQUEFIED PROPANE LPC LOW PRESSURE CONDENSATE LPS LOW PRESSURE STEAM (15 PSI OR LESS) LRA LOCKED ROTOR AMPS LVG LEAVING LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATURE M MECHANICAL MANUF MANUFACTURER MAX MAXIMUM MAX PD MAXIMUM PRESSURE DROP MBH 1000 BTU PER HOUR MBU 1000 BTU MCA MAXIMUM CIRCUIT AMPS MCC MOTOR CONTROL CENTER MD MOTORIZED DAMPER MECH MECHANICAL MEZZ MEZZANINE MFG MANUFACTURER MIN MINIMUM, MINUTES mm MILLIMETERS MNTD MOUNTED MOCP MAXIMUM OVERCURRENT PROTECTION MUA MAKE-UP AIR MUW MAKE-UP WATER </p>	<p> N/A NOT APPLICABLE NATL NATURAL NC NORMALLY CLOSED, NOISE CRITERIA NEC NATIONAL ELECTRIC CODE NG NATURAL GAS NFPA NATIONAL FIRE PROTECTION ASSOCIATION NIC NOT IN CONTRACT NO NORMALLY OPEN, NUMBER NO2 NITROGEN DIOXIDE NTS NOT TO SCALE OA OUTSIDE AIR OAI OUTSIDE AIR INTAKE OAT OUTSIDE AIR TEMPERATURE OBD OPPOSED BLADE DAMPER OD OUTSIDE DIAMETER OED OPEN ENDED DUCT OS&Y OUTSIDE STEM AND YOKE P PUMP, PITCH PC PUMPED CONDENSATE PD PRESSURE DROP PLUMB PLUMBING PRESS PRESSURE PRV PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH PSIG POUNDS PER SQUARE INCH GAUGE PT PRESSURE TREATED PVC POLYVINYL CHLORIDE QTY QUANTITY R RADIUS, RETURN RA RETURN AIR RAD RADIATOR RAF, RF RETURN AIR FAN RAT RETURN AIR TEMPERATURE REL RELIEF REQD REQUIRED RET RETURN RH RELATIVE HUMIDITY RL REFRIGERANT LIQUID RLA RATED LOAD AMPS RM ROOM RPM REVOLUTIONS PER MINUTE RTU ROOFTOP UNIT S SUPPLY DIFFUSER SA SUPPLY AIR SCR SCREEN SD SMOKE DAMPER SF SQUARE FOOT SIM SIMILAR SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION SOV SHUT OFF VALVE SP STATIC PRESSURE SPH STATIC PRESSURE HIGH LIMIT SPL STATIC PRESSURE LOW LIMIT SPS STATIC PRESSURE SENSOR SQ SQUARE SS STAINLESS STEEL STL STEEL SUP SUPPLY T TEMPERATURE SENSOR, THERMOSTAT TC TOTAL COOLING TEMPERATURE TEMP TEMPERATURE THK THICK, THICKNESS TG TRANSFER GRILLE TRANS TRANSITION TSP TOTAL STATIC PRESSURE Typ TYPICAL UH UNIT HEATER UNO UNLESS NOTED OTHERWISE V VENT VAV VARIABLE AIR VOLUME VD VOLUME DAMPER VEL VELOCITY VFD VARIABLE FREQUENCY DRIVE VTR VENT THROUGH ROOF W WIDTH, WATT W/ WITH WB WET BULB WC WATER COLUMN WCO WALL CLEANOUT WF WALL FAN WG WATER GAUGE WH WATER HEATER WMS WIRE MESH SCREEN WPD WATER PRESSURE DROP </p>	<p> C5 DETAIL NUMBER M101 DRAWING WHERE DETAIL IS DRAWN D1 DETAIL NUMBER B SYMBOL PER ABBREVIATION LIST 1 EQUIPMENT SEQUENCE NUMBER S-1 DIFFUSER, REGISTER OR GRILLE 100 SEQUENCE NUMBER CFM CFM FR-1 FIN TUBE DESIGNATION 2.2 MBH 5 LF LENGTH OF ACTIVE FIN TUBE 5 LF EXIST HOT WATER FIN TUBE UNIT TAG 2.2 GPM 22 KEY NOTE (NUMBER) A REVISION (LETTER) AD RETURN OR EXHAUST GRILLE, REGISTER AD SUPPLY DIFFUSER, REGISTER, GRILLE AD ACCESS DOOR AD FINTUBE RADIATION AND ENCLOSURE AD UNIT HEATER AD TERMINAL UNIT, VARIABLE VOLUME WITH HOT WATER COIL AD TERMINAL UNIT, VARIABLE VOLUME AD PROPELLER FAN AD CENTRIFUGAL FAN AD COMBINATION CARBON MONOXIDE / NITROGEN DIOXIDE SENSOR AD INLINE FAN AD DIRECTION OF AIR FLOW AD DIRECTION OF AIR FLOW EXHAUST AD DOOR UNDERCUT AD DOOR LOUVER AD VOLUME DAMPER AD SMOKE DAMPER AD FIRE DAMPER AD MOTORIZED DAMPER, PARALLEL BLADE AD MOTORIZED DAMPER, OPPOSED BLADE AD THERMOSTAT OR THERMISTOR AD HUMIDISTAT AD SWITCH AD SMOKE DETECTOR AD CONNECT TO EXISTING AD SQUARE ELBOW WITH TURNING VANES AD FLEXIBLE DUCT AD FLEXIBLE CONNECTOR AD ROOF VENTILATOR, EXHAUST AD VELOCITY AD STARTER/DISCONNECT AD PUMP AD CEILING SUPPLY DIFFUSER W/ THROW DIRECTION SHOWN BY ARROWS (FOR 4-WAY THROW ARROWS NOT SHOWN) AD CEILING PADDLE FAN AD WALL MOUNTED OSCILLATING FAN </p>	<p> AS AIR FLOW SWITCH AS AIR SEPARATOR AS AUTOMATIC AIR VENT WITH ISOLATION VALVE AS BALL VALVE AS BALL VALVE IN VERTICAL AS BOILER DRAIN VALVE W/ HOSE BIB AS BUCKET TRAP AS BUTTERFLY VALVE AS CHECK VALVE AS TRIPLE DUTY VALVE AS COCK AS COMBINATION FLOW MEASURING/BALANCING VALVE (CIRCUIT SETTER) AS DIRECTION OF FLOW OF PIPE AS DIRT LEG AS END SWITCH AS FLEXIBLE PIPE CONNECTION AS FLOW SWITCH, FREEZESTAT AS FLOAT AND THERMOSTATIC TRAP AS FUSOMATIC VALVE AS GATE VALVE AS THREE WAY VALVE AS GLOBE VALVE AS HOSE BIBB AS MANUAL AIR VENT AS METER AS NONELECTRIC ZONE VALVE AS OS&Y VALVE AS OS&Y VALVE IN VERTICAL (PLAN) AS ("PETE'S PLUG") AS PIPE DROP AS PIPE END CAP AS PIPE GUIDE AS PIPE PITCH DOWN IN DIRECTION OF FLOW AS PIPE PITCH UP IN DIRECTION OF FLOW AS PIPE RISE AS PIPE TEE FROM BOTTOM AS PIPE TEE FROM TOP AS PIPE UP TO FINTUBE RADIATION ON FLOOR ABOVE AS PLUG VALVE AS PRESSURE GAUGE W/BALL VALVE (GATE VALVE AND SIPHON FOR STEAM) AS PRESSURE REDUCING VALVE AS PRESSURE REGULATING VALVE AS PRESSURE SWITCH AS REDUCED PRESSURE BACKFLOW PREVENTER AS REDUCER (CONCENTRIC) AS REDUCER (ECCENTRIC-FOB OR FOT) AS SAFETY RELIEF VALVE AS SOLENOID VALVE AS STEAM MONITOR AS STRAINER W/BALL DRAIN VALVE, HOSE BIB AND CAP (GATE VALVE FOR STEAM) AS STRAINER W/ BLOW OFF AS TEMPERATURE SENSOR AS THERMOMETER AS TEMPERATURE/PRESSURE WELL AS THERMOSTATIC TRAP AS THREE-WAY AUTOMATIC CONTROL VALVE (ELECTRIC OR DDC) AS THREE-WAY AUTOMATIC CONTROL VALVE (PNEUMATIC) AS TWO-WAY AUTOMATIC CONTROL VALVE (ELECTRIC OR DDC) AS TWO-WAY AUTOMATIC CONTROL VALVE (PNEUMATIC) AS UNION AS DICTATED BY PIPE SIZE AS FLANGE AS DICTATED BY PIPE SIZE AS VIBRATION ISOLATOR </p>	<p> 1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO DRAWINGS MARKED M#. 2. DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. 3. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS. 4. REMOVALS SHALL BE COORDINATED BY THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF THE BUILDING. 5. DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED AND INSTALLED ACCORDING TO LATEST SMACNA STANDARDS FOR SPECIFIED STATIC PRESSURE RATING. 6. INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY THE CONTRACTING OFFICER. 7. WORK SHALL BE COORDINATED WITH TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. 8. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION. 9. ACCESS PANELS SHALL BE PROVIDED, WHERE REQUIRED, TO SERVICE HEATERS, VALVES AND CONCEALED MECHANICAL EQUIPMENT. PROVIDE ACCESS PANELS UP STREAM OF ELBOWS WITH TURNING VANES. 10. INSTALL EQUIPMENT, PIPING AND DUCTWORK AS REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION AND TO FACILITATE EQUIPMENT ACCESS AS REQUIRED BY EQUIPMENT MANUFACTURER. 11. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM SYSTEM UNDER THE ELECTRICAL SECTION. UNDER THE MECHANICAL SECTION, THIS CONTRACTOR SHALL MOUNT THE DETECTORS IN DUCTWORK, WHERE REQUIRED BY CODE, AND SHALL WIRE THE DETECTORS TO THE FAN STARTERS FOR SHUTDOWN. 12. CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND SPECIFICATIONS. 13. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES WHERE APPLICABLE. 14. INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. 15. DIFFUSER SIZES SHOWN ARE NECK SIZES. REGISTER AND GRILLE SIZES ARE NOMINAL. 16. PRESSURE DROP THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 3 PSIG UNLESS OTHERWISE NOTED ON DRAWINGS. 17. PROVIDE FLEXIBLE DUCT CONNECTIONS ON DUCTS CONNECTING TO FANS, AND TO AIR HANDLING UNITS WHICH ARE NOT INTERNALLY ISOLATED. DUCTS TO BE GROUNDED ACROSS FLEXIBLE CONNECTION WITH FLEXIBLE COPPER GROUNDING STRAPS. 18. THE INSIDE OF DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK. 19. INSULATE PIPING AS SPECIFIED. PERFORM TESTS SPECIFIED BEFORE INSULATING. 20. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING. 21. PROVIDE BALANCING COCKS AT SYSTEM LOOP RETURNS AND AT RETURN RISERS. PROVIDE SHUT-OFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS. 22. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS. 23. PROVIDE AT LEAST THREE ELBOW SWINGS FOR PIPE TAKE-OFFS. 24. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND HEATING COIL INLETS AND OUTLETS. 25. RUN PIPING LEVEL. </p>		
<p>DUCTWORK SYMBOLS</p>		<p>MECHANICAL LINETYPE LEGEND</p>					

REV.	DESCRIPTION	DATE

ISSUE STATUS:

ISSUED FOR CONSTRUCTION 9-7-17

PROJECT:

LOWELL STREET RENOVATIONS

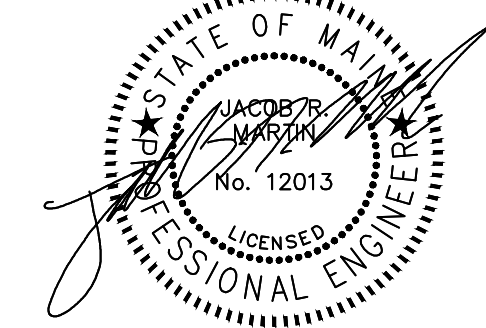
PORTLAND, ME

SHEET TITLE:
HVAC SYMBOLS, LEGEND & GENERAL NOTES

DATE:	PROJECT#
09-7-17	17109
DRAWN:	CHECKED:
MAC	JRM
SCALE:	SCALE:
	NOT TO SCALE

SHEET #

M-001



EXHAUST FAN SCHEDULE (EF)																
TAG	DESCRIPTION	SERVES	AIRFLOW		ESP	FAN SPEED		MOTOR		ELECTICAL			WEIGHT LBS	MANUF.	MODEL	NOTES
			CFM	IN WC		RPM	HP	BHP	V	PH	HZ	AMPS				
EF-1	INLINE EXHAUST FAN	LAB 450	250	0.5"	2,020	74 W	60.9 W	120	1	60		12	FANTECH	FG-6M-EC	ALL	

NOTES:
1. REFER TO WALL CAP SCHEDULE, BACKDRAFT DAMPER PROVIDED WITH WALL CAP.
2. PROVIDE WITH FAN MOUNTED SPEED SWITCH FOR BALANCING. FANTECH MTP OR SIMILAR.
3. DISCONNECT PROVIDED & INSTALLED BY EC
4. EQUIPMENT IS ENERGY STAR RATED
5. EQUIPMENT IS UL-705 LISTED
6. PROVIDE THERMOSTATIC CONTROL OF FAN AS SHOWN ON PLANS.

HUMIDIFIER SCHEDULE (HUM)																
Tag	DESCRIPTION	CAPACITY LBS/HR	AIRFLOW CFM	DISPERSION					ELECTRIC				MANUF & MODEL	NOTES		
				EAT		DUCT			TYPE	MAT.	VOLTAGE	PH			HZ	AMPS
DB	RH	WIDTH	HEIGHT	VEL.												
HUM-1	ELECTRIC STEAM HUMIDIFICATION SYSTEM W/ DUCT COIL	12	500	70	40.0%	12	10	500	1.5" SINGLE TUBE	304 SS	208	3	60	25	DRI-STEEM VAPORMIST VM-4	ALL

NOTES:
1. PROVIDE AIRFLOW PROVING SWITCH, DUCT HIGH LIMIT HUMIDISTAT, CONTROLS
2. PROVIDE WITH VAPOR-LOGIC CONTROL MOUNTED ON UNIT. MODULATING CAPACITY CONTROL.

GRILLE, REGISTER AND DIFFUSER SCHEDULE														
TAG	DESCRIPTION	AIRFLOW CFM	NECK INCHES	FACE SIZE INCHES	NC	SP W.G.	THROW (FT) @ 22-1/2	MATRL	VOL DAMP	MOUNTING	AIR PATTERN	MODEL	PRICE	NOTES
CD-8	SUPPLY - CEILING	180	8"	24"X24"	<20	0.016	2-3-6	STEEL	NO	LAY-IN	4 - WAY	PRICE SCD	1	
RG-10	RETURN - CEILING	280	10"	12"X12"	<20	0.011	-	ALUM	NO	LAY-IN	45 DEG	PRICE 630	1	
RG-10B	RETURN - FILTERED	400	10"	12"X12"	<20	0.011	-	ALUM	NO	SURFACE	45 DEG	PRICE 630	1	
EG-6	EXHAUST - CEILING	100	6"	12"X12"	<20	0.01	-	ALUM	NO	LAY-IN	45 DEG	PRICE 630	1	
EG-6B	EXHAUST - SIDEWALL	250	6"	14"X6"	25	0.085	-	ALUM	NO	SURFACE	45 DEG	PRICE 630	1	
T-1	TRANSFER - CEILING	NA	8"	12"X12"	-	-	-	ALUM	NO	LAY-IN	45 DEG	PRICE 630	1	

NOTES:
1. CORRDATE FINISH WITH ARCHITECTURAL

FAN FILTER UNIT									
TAG	DESCRIPTION	SERVES	CFM	POWER	V/PH	WEIGHT	MANUF.	MODEL	NOTES
FFU-1	24"X24" FAN FILTER UNIT	MINOR PROCEDURE 443	250	1/3 HP	115/1	54	TITUS	FFDER	ALL
FFU-2	24"X24" FAN FILTER UNIT	MINOR PROCEDURE 443	250	1/3 HP	115/1	54	TITUS	FFDER	ALL

NOTES:
1. PROVIDE WITH HEPA FILTER
2. PROVIDE WITH DIRTY FILTER INDICATOR LIGHTS

VAV DAMPER SCHEDULE																	
TAG	RTU #	ZONE SERVED	INLET SIZE	COOLING CFM			APD IN WG	HEATING CFM	HEATING COIL					MANUF	MODEL NO	UNIT HAND	NOTES
				MAX	MIN				COIL MBH	EAT DEF F	LAT DEG F	ELECTRIC HEAT KW	# OF STAGES				
VAV-1	1	MINOR PROCEDURE ROOM 443	8"	500	105	0.036	250	10.24	55	92.77	3.0	2	208/1	TRANE	VCEF08	LEFT	ALL
VAV-2	1	LAB ROOM 450, EXAM 3 ROOM 453	6"	250	60	0.047	170	6.83	55	92.03	2.0	2	208/1	TRANE	VCEF06	RIGHT	ALL
VAV-3	1	SOILED PROCESSING ROOM 442, TECH ROOM 441, TESTING ROOM 444	5"	130	60	0.01	85	3.41	55	92.03	1.0	1	208/1	TRANE	VCEF05	RIGHT	ALL
VAV-4	1	EXAM 4 ROOM 449, EXAM 5 ROOM 448	6"	320	60	0.085	170	6.8	55	92.03	2.0	2	208/1	TRANE	VCEF06	LEFT	ALL
BD-1	1	BYPASS DAMPER	10"	500	-	-	-	-	-	-	-	-	-	-	VADB10	-	ALL

NOTES:
1. PROVIDE CONTROLS TO COMMUNICATE WITH TRANE TRACER CONCEERGE SYSTEM
2. PROVIDE WITH FOIL FACED 1" INSULATION
3. PROVIDE WITH DUCT TEMP SENSOR & ACTUATOR
4. PROVIDE WITH DISCONNECT SWITCH

ROOFTOP UNIT SCHEDULE (RTU)																												
TAG	DESCRIPTION	NOM. SIZE	DESIGN PERFORMANCE				VENT. MINIMUM	HEATING PERFORMANCE				COOLING PERFORMANCE				ELECTRICAL DATA					WEIGHT LBS	MANUFACTURER & MODEL	NOTES					
			AIRFLOW CFM	FAN SPEED RPM	FAN POWER BHP	ESP IN WC		TYPE	INPUT MBH	OUTPUT MBH	EAT (F) DB	LAT (F) DB	TOTAL CAP. MBH	SENSIBLE CAP. MBH	EFFICIENCY EER @ OPP.	REFRIGERANT		EAT (F)		LEV. AIR TEMP				VOLTS	PH	HZ	MCA AMPS	MOP AMPS
																TYPE	CHARGE LBS	DB	WB									
RTU-1	MINOR PROCEDURE 443	3.0	1,200	978	0.54	0.95	240	GAS - LP	60	48	65.0	102.3	36.87	26.32	12.7	R-410A	6.6	80	67	60.02	208	3	60	19.6	30	767	TRANE YHC036E3RLA	ALL

NOTES:
1. PROVIDE WITH COMPARATIVE ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF
2. PROVIDE WITH HINGED PANELS AND 2" MERV 8 FILTERS
3. PROVIDE WITH UNPOWERED CONVENIENCE OUTLET AND THRU BASE ELECTRICAL W/ CIRCUIT BREAKER
4. PROVIDE WITH DEHUMIDIFICATION - HOT GAS REHEAT AND WALL MOUNTED SENSOR
5. PROVIDE WITH ROOF CURB

ALL: MINIMUM LP GAS INLET PRESSURE: 11.0" MAXIMUM LP GAS INLET PRESSURE 14.0"

REV.	DESCRIPTION	DATE

ISSUE STATUS:
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PROJECT:
LOWELL STREET RENOVATIONS
PORTLAND, ME

SHEET TITLE:
HVAC SCHEDULES

DATE: 09-7-17 PROJECT# 17109
DRAWN: MAC CHECKED: JRM SCALE: NOT TO SCALE

SHEET #
M-601