

BFP PERFORMANCE SCHEDULE				
TAG	SIZE	FLOW RATE (GPM)	WPD TEMPERATURE (DEGREES F)	MAX WORKG. PRESSURE (PSI)
BFPI	3"	175.0	5.0	180
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	5AN	VENT	CU	HU	GA5
PI	FLOOR MOUNTED TANK-TYPE WC	3"	2"	1/2"	-	-
PIA	VANITY / LAVATORY WALL MOUNTED LAVATORY	1/2"	1/4"	1/2"	-	-
P2, P2A	TUB / SHOWER UNIT	1 1/2"	1/2"	1/2"	-	-
P3	SHOWER UNIT	1 1/2"	1/2"	1/2"	-	-
P4	KITCHEN SINK	1 1/2"	1/2"	1/2"	-	-
P5	CLOTHESWASHER HOOD-UP	2"	1/2"	1/2"	-	-
P6	CLOTHESWASHER HOOD-DOWN	2"	1/2"	1/2"	-	-
P1	ICE MAKER	-	-	3/4"	-	-
HB	HOSE BIBB (INTERIOR)	-	-	-	-	-
FFHB	FREEZE PROOF HOSE BIBB (EXTERIOR)	-	-	-	-	-
2FD	2" FLOOR DRAIN w/ TRAP PRIMER CONNECTION	2"	1/2"	-	-	-
3FD	3" FLOOR DRAIN w/ TRAP PRIMER CONNECTION	3"	1/2"	-	-	-
LD	INDIRECT WASTE RECEPTOR	4"	2"	1/2"	-	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
 ** - FROM TRAP PRIMER
 Note - Fixtures tagged with a (T) shall have trap primers connected to nearby floor drains.

MECHANICAL & PLUMBING LEGEND

NOTE: USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)	2	BUTTERFLY VALVES w/ SINGLE ACTUATOR
C	CONDENSATE DRAIN PIPING (C)	3	BUTTERFLY VALVE w/ ACTUATOR
CTR	COOLING TOWER RETURN PIPING (CTR)	4	TRIPLE-DUTY VALVE
CT6	COOLING TOWER SUPPLY PIPING (CT6)	5	UNION
CT8	CHILLED WATER RETURN PIPING (CT8)	6	PIPE FLANGE
CT9	CHILLED WATER SUPPLY PIPING (CT9)	7	CARBON DIOXIDE SENSOR
FOR	FUEL OIL RETURN PIPING (FOR)	8	BASE MOUNTED PUMP
FOS	FUEL OIL SUPPLY PIPING (FOS)	9	CARRIAGE TYPE INLINE PUMP
G	GA5 PIPING (G)	10	VERTICAL INLINE PUMP
HUR	HOT WATER RETURN PIPING (HUR)	11	FLEXIBLE PIPE CONNECTION (FC)
HUS	HOT WATER SUPPLY PIPING (HUS)	12	PITCH DOWN
RL	REFRIGERANT LIQUID PIPING (RL)	13	VERTICAL PIPE CONNECTION (VC)
RG	REFRIGERANT GAS PIPING (RG)	14	FET COCK
LTHUR	LOW TEMP HOT WATER RETURN PIPING (LTHUR)	15	PRESSURE GAGE WITH GAGE COOK
LTHUS	LOW TEMP HOT WATER SUPPLY PIPING (LTHUS)	16	THERMOWEITER IN WELL
3AN	SANITARY PIPING BELOW FLOOR (3AN)	17	WATER FLOW SWITCH
5AN	SANITARY PIPING ABOVE FLOOR (5AN)	18	PRESSURE SWITCH OR SENSOR
RAIN	RAINWATER LEADER ABOVE SLAB (RAIN)	19	IMPRESSION TEMPERATURE SENSOR
DCW	DOMESTIC COLD WATER PIPING (DCW)	20	DUCT MOUNTED STROKE DETECTOR
HW	RECIRCULATED HOT WATER PIPING (HW)	21	ROOM TEMPERATURE SENSOR
THUR	PIPE CAP	22	THERMOCYSTAT OR SENSOR ON WALL
THUS	DIRECTION OF FLUID FLOW	23	TEMP SENSOR w/ TAMPERPROOF GLASS
ELBOW UP	ELBOW UP	24	MANUAL AIR VENT
ELBOW DN	ELBOW DN	25	NOTE TAG (NUMBER)
TEE UP	PIPE TEE UP	26	AIR DEVICE TAG (LETTER) WITH CFI
TEE DN	PIPE TEE DN	27	TURNING VANES
REDUCER	PIPE REDUCER	28	DUCT w/ MANUAL DAMPER
GUIDE	PIPE WITH GUIDE	29	DUCT w/ FLEXIBLE CONNECTION (FC)
ANCHOR	PIPE WITH ANCHOR	30	LARGED DUCT
BUTTERFLY	BUTTERFLY VALVE	31	DUCT w/ ACOUSTIC LINING
GATE	GATE VALVE	32	DUCT w/ SQUARE-TO-ROUND TRANSITION
3/4"	3/4" BALL VALVE WITH 3/4" HOSE END	33	FLEXIBLE DUCT
GATE	GATE VALVE	34	MOTOR OPERATED DAMPER
REDUCING	PRESSURE REDUCING VALVE	35	AIRFLOW IN
FLUIDIBLE	FLUIDIBLE VALVE	36	DIAPHRAGM OR FLAT OVAL
STRAINER	STRAINER w/ BLINDDOWN BALL VALVE	37	CONNECT TO EXISTING
2-WAY	2-WAY CONTROL VALVE	38	ROUND OR FLAT OVAL DUCT DOWN
3-WAY	3-WAY CONTROL VALVE (TOP VIEW)	39	ROUND OR FLAT OVAL DUCT UP
4-WAY	4-WAY CONTROL VALVE (TOP VIEW)	40	SUPPLY DIFFUSER

FAN PERFORMANCE SCHEDULE				
TAG	APRFLCU (CFM)	TSP (INLU)	NOISE (SONES)	RFPM
EF-1	80	0.25	0.6	900
EF1	16292	0.25	24	810
EF2	16292	0.25	24	810
EF3	16292	0.25	24	810
EF4	16292	0.25	24	810
EF5	493	0.25	0.6	175

Note: 1. All fans shall have gravity backdraft dampers. EF-1 shall have a ceiling fire damper. 2. Provide ECM motors for EF-1, 2, 3, 4.
 Note: EF-1 represents multiple units. Verify quantities with Drawings.

LOUVER / DAMPER PERFORMANCE SCHEDULE

TAG	AIR FLOW (CFM)	SP LOSS (IN. WG)	AIR VELOCITY (FPM)	SIZE (SQ. FT)	FREE AREA (SQ. FT)	FRAME TYPE (Y) OR (N)	FRAME DEPTH (IN.)	BLADE ANGLE	SERVICE	MODEL	BLANK-OFF PANEL
L1	68000	0.35	-	18'x4'	39.6	Y	35.6"	6"	GARAGE	ELF63BDX	-
L2, 3	17400	0.05	-	5'x4'	11.0	Y	35.6"	6"	GARAGE	ELF63BDX	-
L4	500	0.05	-	24"x24"	2.0	Y	35.6"	6"	TRASH ROOM	ELF63BDX	-

Note: 1. Louvers shall be provided by the General Contractor.

ELECTRIC WATER HEATER PERFORMANCE SCHEDULE

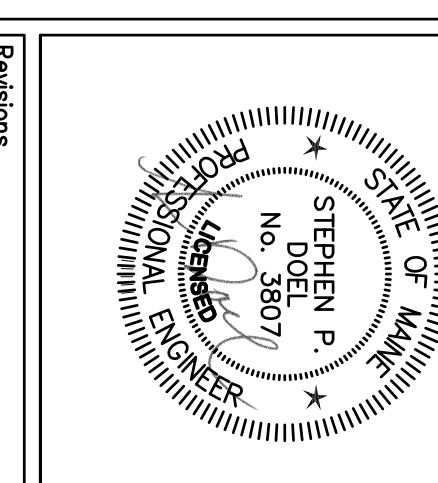
TAG	STORAGE (GAL)	INPUT (KW)	RECOVERY (GPH)	ELECTRICAL REQUIREMENTS	BASE OF DESIGN RUID	DIMENSIONS
EHU	40	4.5	20.25	HP WATTS V/PHAZ	208V/1Ø	46" H x 22" W

NOTE: 1. All fans shall have gravity backdraft dampers. EF-1 shall have a ceiling fire damper. 2. Provide ECM motors for EF-1, 2, 3, 4.
 Note: EF-1 represents multiple units. Verify quantities with Drawings.

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	EV-1	EXHAUST VENT TAG
AD	ACCESS DOOR	FC	FLEXIBLE CONNECTION
AF	ABOVE FINISHED FLOOR	F0	FLOOR CLEANOUT
AH-1	AIR HANDLING UNIT TAG	FD	FIRE DAMPER
AH-2	ADJUSTABLE FLOW STATION FOR DISPLACEMENT DIFFUSERS	FD-1	FLOOR DRAIN TAG
AP	ACCESS PANEL	FLA	FULL LOAD AMP
APD	AIR SEPARATOR DROP	FLG	FUEL LEVEL GAUGE
AS-1	AUTOVANT TEMPERATURE CONTROL	FOR	ROOM DRAIN
ATC	BOILER TAG	FOS	FUEL OIL SUPPLY
BD-1	BYPASS DAMPER TAG	FR-1	FRICTION RADIATION TAG
BHP	BACKFLOW PREVENTER TAG	GA	GAGE
BTH	BRAKE HORSEPOWER	GA-1	GALLONS PER HOUR
B5	BELT THERMAL UNIT'S PER HOUR	GA2	GALLONS PER MINUTE
CA	COMPRESSED AIR PIPING	GM	GALLONS PER HOUR
CH-1	CHILLER TAG	GMH	GAS UNIT HEATER TAG
CH-2	CLEANOUT	HC-1	HEATING COIL TAG
COV	CONNECTOR TAG	HP	HORSEPOWER
CUH-1	CABINET UNIT HEATER TAG	HV-1	HEAT RECOVERY VENTILATOR TAG
CP-1	CIRCULATING PUMP TAG	HU	HOT WATER
CT-1	COOLING TOWER TAG	HUR	HOT WATER SUPPLY AND RETURN
CV	VALVE COEFFICIENT	I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS
CHUR	CHILLED WATER SUPPLY AND RETURN	IH-1	INDIRECT FIRED WATER HEATER TAG
DB	DRY BULB	IH-2	INDIRECT FIRED WATER HEATER TAG
DB RE	DECIBEL RELATIVE TO DOUBLE CHECK	IH-3	INDIRECT FIRED WATER HEATER TAG
DCA	DOUBLE CHECK ATMOSPHERIC DEGREES FAHRENHEIT	IH-4	INDIRECT FIRED WATER HEATER TAG
DEG F	DIAPHRAGM	IH-5	INDIRECT FIRED WATER HEATER TAG
DIA	DOWN IN WALL	IH-6	INDIRECT FIRED WATER HEATER TAG
DIU	DOWN IN WALL	IH-7	INDIRECT FIRED WATER HEATER TAG
DN	DOWN IN WALL	IH-8	INDIRECT FIRED WATER HEATER TAG
EA	EXHAUST AIR	IH-9	INDIRECT FIRED WATER HEATER TAG
EAT	ENTERING AIR TEMPERATURE	IH-10	INDIRECT FIRED WATER HEATER TAG
EAB	ENTERING AIR TEMPERATURE	IH-11	INDIRECT FIRED WATER HEATER TAG
EDC-1	ELECTRIC DUCT COIL TAG	IH-12	INDIRECT FIRED WATER HEATER TAG
EER	ENERGY EFFICIENCY RATIO	IH-13	INDIRECT FIRED WATER HEATER TAG
EF-1	EXHAUST FAN TAG	IH-14	INDIRECT FIRED WATER HEATER TAG
EF	EFFICIENCY	IH-15	INDIRECT FIRED WATER HEATER TAG
EG-1	EXHAUST GRILLE TAG	IH-16	INDIRECT FIRED WATER HEATER TAG
ER-1	EXHAUST REGISTER TAG	IH-17	INDIRECT FIRED WATER HEATER TAG
E9P	EXHAUST REGISTER TAG	IH-18	INDIRECT FIRED WATER HEATER TAG
ET-1	EXTERNAL STATIC PRESSURE	IH-19	INDIRECT FIRED WATER HEATER TAG
EUB	ENTRANSING JET BULB	IH-20	INDIRECT FIRED WATER HEATER TAG
EUH-1	ELECTRIC WATER HEATER TAG	IH-21	INDIRECT FIRED WATER HEATER TAG
EWG	ENTERING WATER TEMPERATURE	IH-22	INDIRECT FIRED WATER HEATER TAG
EXG	EXHAUSTING	IH-23	INDIRECT FIRED WATER HEATER TAG



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Job No.: 3346
 Date: 12/14/12
 Scale: 1/8" = 1'-0" or A.N.
 Drawn By: SP
 Checked By: SP

Drawing Title:
 Mechanical Schedules
 & Legend

MP.2