

PROJECT ABBREVIATIONS					HVAC SYMBOLS AND ABBREVIATIONS					PIPING SYMBOLS AND ABBREVIATIONS				
A/E	ARCHITECT / ENGINEER	EJ	EXPANSION JOINT	IRH	INFRARED HEATER	PRV	PRESSURE REGULATING VALVE	22"x8" SQUARE DUCT SIZE TAG (WIDTH x HEIGHT) 22"x8" OVAL DUCT SIZE TAG (WIDTH / HEIGHT) 22"Ø ROUND DUCT SIZE TAG (DIAMETER) (E)22"Ø EXISTING DUCT TAG DUCT BEING DEMOLISHED DROP 18 RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE DROP 18 ROUND SUPPLY/OUTSIDE AIR DUCT RISE DROP 12 RECTANGULAR RETURN/TRANSFER AIR DUCT RISE DROP 12 ROUND RETURN/TRANSFER AIR DUCT RISE DROP 12 RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE DROP 10 ROUND EXHAUST/RELIEF AIR DUCT RISE		HWS HOT WATER HEATING SUPPLY HWR HOT WATER HEATING RETURN GHS GLYCOL-WATER HEATING SUPPLY GHR GLYCOL-WATER HEATING RETURN RS/RL REFRIGERANT SUCTION AND REFRIGERANT LIQUID CHS CHILLED WATER SUPPLY CHR CHILLED WATER RETURN MW MAKE-UP WATER D DRAIN PIPING CD CONDENSATE DRAIN A COMPRESSED AIR G NATURAL GAS MAIN FUEL G(I) NATURAL GAS IGNITER FUEL FOS FUEL OIL SUPPLY FOR FUEL OIL RETURN SW SOFTENED WATER DCW DOMESTIC COLD WATER DHW DOMESTIC HOT WATER (E) 2" EXISTING PIPE TAG (E) 2" PIPE SIZE TAG (DIAMETER) PIPING BEING DEMOLISHED				
AAV	AUTOMATIC AIR VENT	ENT	ENTERING	IU	INDUCTION UNIT	PSI	POUNDS PER SQUARE INCH							
ACD	AUTOMATIC CONTROL DAMPER	ERC	ELECTRIC REHEAT COIL	JB	JUNCTION BOX	PSIA	POUNDS PER SQUARE INCH – ABSOLUTE							
AD	ACCESS DOOR	ERP	ELECTRIC RADIANT PANEL	JL	JUSTIFIED LEFT	PSIG	POUNDS PER SQUARE INCH – GAGE							
AF	AFTER FILTER	ET	EXPANSION TANK	JR	JUSTIFIED RIGHT	PTAC	PACKAGED TERMINAL AIR CONDITIONER							
AFF	ABOVE FINISHED FLOOR	ETO	ETHYLENE OXIDE	KG	KILOGRAM	QNTY	QUANTITY							
AFMS	AIR FLOW MEASURING STATION	EUH	ELECTRIC UNIT HEATER	KG/HR	KILOGRAM PER HOUR	RA	RETURN AIR							
AHU	AIR-HANDLING UNIT	EWT	ENTERING WATER TEMPERATURE	KPa	KILOPASCAL	RAF	RETURN AIR FAN							
AMP	AMPERE	EX	EXISTING	KW	KILOWATT	RAT	RETURN AIR TEMPERATURE							
APD	AIR PRESSURE DROP			KWH	KILOWATT HOUR	RD	REFRIGERANT DISCHARGE							
AS	AIR SEPARATOR	F	FAHRENHEIT			REA	RELIEF AIR							
B	BOILER	F&T	FLOAT AND THERMOSTATIC			RF	RETURN FAN							
BAS	BUILDING AUTOMATION SYSTEM	FA	FREE AREA	LOOP	LOCK ONLY OPEN POSITION	RH	RELATIVE HUMIDITY							
BBR	BASE BOARD RADIATOR	FCU	FAN COIL UNIT	LVG	LEAVING	RHC	REHEAT COIL							
BE	BOTTOM ELEVATION	FD	FLOOR DRAIN	LVR	LOUVER	RLA	RUN LOAD AMPERE							
BFP	BACKFLOW PREVENTER	FF	FINAL FILTER	LWT	LEAVING WATER TEMPERATURE	RO	REVERSE OSMOSIS							
BHP	BRAKE HORSEPOWER	FM	FLOW METER	M	METER, SI UNIT	RPM	REVOLUTIONS PER MINUTE							
BOD	BOTTOM OF DUCT	FOP	FUEL OIL PUMP	MAT	MIXED AIR TEMPERATURE	RS/RL	REFRIGERANT SUCTION AND REFRIGERANT LIQUID							
BOP	BOTTOM OF PIPE	FOT	FLAT ON TOP	MAU	MAKE-UP AIR UNIT	RTU	ROOF TOP UNIT							
BSC	BIOLOGICAL SAFETY CABINETS	FPM	FEET PER MINUTE	MAY	MANUAL AIR VENT	RV	RELIEF VALVE							
BT	BLOWOFF TANK	FPS	FEET PER SECOND	MB	MIXING BOX	SA	SUPPLY AIR							
BTU	BRITISH THERMAL UNIT	FPU	FAN POWERED TERMINAL UNIT	MBH	1,000 BTUH	SAT	SUPPLY AIR TEMPERATURE							
BTUH	BRITISH THERMAL UNIT PER HOUR	FRP	FIBER REINFORCED POLYESTER	MCA	MINIMUM BRANCH CIRCUIT AMPACITY	SCFM	STANDARD CUBIC FEET PER MINUTE							
CV	CONSTANT AIR VOLUME	FS	FLOW SWITCH	MER	MECHANICAL EQUIPMENT ROOM	SCR	SILICON CONTROLLED RECTIFIER							
CC	COOLING COIL	FSTAT	FREEZE/STAT	MH	MANHOLE	SEA	SMOKE EXHAUST AIR							
CD	COOLING COIL CONDENSATE DRAIN	FT	FEET	MHP	MOTOR HORSEPOWER	SEN	SENSIBLE HEAT							
CFH	CUBIC FEET PER HOUR	FT WC	FEET OF WATER COLUMN	MM	MILLIMETER	SF	SUPPLY FAN							
CFM	CUBIC FEET PER MINUTE	FT-LB	FOOT-POUND	MOV	MOTOR OPERATED VALVE	SHC	STEAM HEATING COIL							
CFT	CUBIC FEET	FV	FACE VELOCITY	MTD	MEAN TEMPERATURE DIFFERENCE	SI	SQUARE INCHES							
CH	CHILLER	GA	GAUGE	NA	NOT APPLICABLE	SP	STATIC PRESSURE							
CHP	CHILLED WATER PUMP	GAL	GALLONS	NC	NOISE CRITERIA	SP GR	SPECIFIC GRAVITY							
CHS/R	CHILLER WATER	GH	GRAVITY HOOD	NG	NORMALLY CLOSED	SPS	STATIC PRESSURE SENSOR							
CL	CENTER LINE	GPD	GALLONS PER DAY	NOM	NOMINAL	SQ FT	SQUARE FOOT (FEET)							
CM	CUBIC METER	GPH	GALLONS PER HOUR	NPLV	NON-STANDARD PART LOAD VALUE	SS	STAINLESS STEEL							
CM/S	CUBIC METER PER SECOND	GPM	GALLONS PER MINUTE	NPSH	NET POSITIVE SUCTION HEAD	SSR	SOLID SEPARATOR							
CO	CLEAN OUT	GPR	GAS PRESSURE REGULATOR	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE	ST	STEAM TRAP							
COMP	COMPRESSOR UNIT	GS	GALVANIZED STEEL	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED	TAB	TESTING, ADJUSTING, BALANCE							
COP	COEFFICIENT OF PERFORMANCE	H	HUMIDIFIER	NTS	NOT TO SCALE	TDH	TOTAL DYNAMIC HEAD							
COR	CONTRACTING OFFICER REPRESENTATIVE	HB	HOSE BIBB	OA	OUTSIDE AIR	TDS	TOTAL DISSOLVED SOLIDS							
CP	CONDENSATE PUMP	HC	HEATING COIL	OAD	OUTDOOR AIR DAMPER	TSP	TOTAL STATIC PRESSURE							
CST	CONDENSATE STORAGE TANK	HD	HOOD	OD	OUTSIDE DIAMETER	TSTAT	THERMOSTAT							
CSG	CLEAN STEAM GENERATOR	HOA	HAND/OFF/AUTOMATIC	P	PUMP	TU	TERMINAL UNIT							
CT	COOLING TOWER	HP	HEAT PUMP	Pa	PASCAL	UC	UNDER CUT							
CU	CONDENSING UNIT	HRP	HEAT RECOVERY COIL	PCF	POUNDS PER CUBIC FOOT (FEET)	UH	UNIT HEATER							
CUH	CABINET UNIT HEATER	HRW	HEAT RECOVERY WHEEL	PD	PRESSURE DROP	V	VENT							
CV	CONSTANT VOLUME	HSTAT	HUMIDISTAT	PF	PRE-FILTER	VAV	VARIABLE AIR VOLUME							
CWP	CONDENSER WATER PUMP	HVU	HEATING AND VENTILATING UNIT	PG	PRESSURE GAGE	VFD	VARIABLE FREQUENCY DRIVE							
DDC	DIRECT DIGITAL CONTROLS	HWC	HOT WATER COIL	PHC	PREHEAT COIL	VP	VACUUM PUMP							
DIA	DIAMETER	HTX	HEAT EXCHANGER	PPM	PARTS PER MILLION	VR	VACUUM (STEAM CONDENSATE) RETURN							
DI	DEIONIZED WATER	HZ	HERTZ	PRS	PRESSURE REGULATING (VALVE) STATION	W	WATTS							
DP	DEW POINT TEMPERATURE	I/O	INPUT/OUTPUT			Wb	WET-BULB (TEMPERATURE)							
DPS	DIFFERENTIAL PRESSURE SENSOR	IAQ	INDOOR AIR QUALITY			WFMS	WATER FLOW MEASURING STATION							
DX	DIRECT EXPANSION	IBT	INVERTED BUCKET TRAP			WG	WATER GAGE							
EA	EXHAUST AIR	ID	INSIDE DIAMETER			WPD	WATER PRESSURE DROP							
EAT	ENTERING AIR TEMPERATURE	IFB	INTEGRAL FACE AND BYPASS			YR	YEAR							
EC	EVAPORATIVE COOLER	IN	INCHES											
ECC	ENGINEERING CONTROL CENTER	IN HG	INCHES OF MERCURY											
EDH	ELECTRIC DUCT HEATER	IN WC	INCH WATER COLUMN											
EER	ENERGY EFFICIENCY RATIO	IN WG	INCH WATER GAUGE											
EF	EXHAUST FAN	IN-LB	INCH-POUND											
ES	EMERGENCY GAS SHUTOFF	IPLV	INTEGRATED PART LOAD VALUE											
EGT	ENTERING GLYCOL TEMPERATURE													
EH	EXHAUST HOOD													
MECHANICAL SHEET INDEX					GRILLES, REGISTERS & DIFFUSERS TAG					GENERAL MECHANICAL SYMBOLS				
SHEET NUMBER		DRAWING TITLE								A 6"Ø, 100 NECK SIZE CFM SUPPLY DIFFUSER B 8"Ø, 100 NECK SIZE CFM RETURN GRILLE C 6"x8" NECK SIZE CFM EXHAUST GRILLE (E)LINEAR BAR GRILLE # 48"x2 1/2"400 TYPE (SEE SCHEDULE) ACTIVE SLOT LENGTH (PLENUM LENGTH) CFM				
M0.1	MECHANICAL LEGEND AND ABBREVIATIONS									EQUIPMENT TAG (E)TU-XX VAV BOX EQUIPMENT TAG (E)RTU-XX				
M0.2	MECHANICAL SPECIFICATIONS													
M0.3	MECHANICAL SCHEDULES													
M0.4	MECHANICAL SCHEDULES													
M0.5	MECHANICAL DETAILS													
M0.6	MECHANICAL DETAILS													
M0.7	MECHANICAL DETAILS													
M1.01	LEVEL 1 - MECHANICAL PLAN													
M1.02	LEVEL 2 - MECHANICAL PLAN													