

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

ABBREVIATIONS

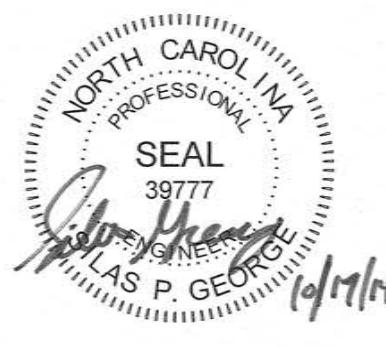
A/E	ARCHITECT / ENGINEER	I/O	INPUT/OUTPUT
AAHX	AIR TO AIR HEAT EXCHANGER	IAQ	INDOOR AIR QUALITY
ACCH	AIR COOLED CHILLER	ICU	INTENSIVE CARE UNIT
ACRCU	AIR-COOLED RECIPROCATING CHILLER UNIT	IFB	INTEGRAL FACE AND BYPASS
AD	ACCESS DOOR	IN	INCHES
AF	AFTER FILTER	IN WG	INCH WATER GAUGE
AFCV	AIR FLOW CONTROL VALVE	IN-LB	INCH-POUND
AFMD	AIR FLOW MEASURING DEVICE	IPLV	INTEGRATED PART LOAD VALUE
AHU	AIR HANDLING UNIT		
AMP	AMPERE	KW	KILOWATT
APD	AIR PRESSURE DROP	KWh	KILOWATT HOUR
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE		
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	LAT	LEAVING AIR TEMPERATURE
		LBS/HR	POUNDS PER HOUR
BDD	BACKDRAFT DAMPER	LH	LATENT HEAT
BHP	BRAKE HORSEPOWER	LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
BTU	BRITISH THERMAL UNIT	LPS	LOW PRESSURE STEAM
BTUH	BRITISH THERMAL UNIT PER HOUR	LV	LOUVER
		LVG	LEAVING
		LWT	LEAVING WATER TEMPERATURE
CC	COOLING COIL	MBH	1000 BTUH
CCD	COOLING COIL CONDENSATE DRAIN	MCA	MINIMUM BRANCH CIRCUIT AMPACITY
CENT	CENTRIFUGAL	MER	MECHANICAL EQUIPMENT ROOM
CFM	CUBIC FEET PER MINUTE	MERV	MINIMUM EFFICIENCY REPORTING VALUE
CFT	CUBIC FEET	MO	MOTOR OPERATED
CH	CHILLER	MPR	MEDIUM PRESSURE RETURN (STEAM CONDENSATE)
CHW	CHILLER WATER	MPS	MEDIUM PRESSURE STEAM
CHR	CHILLED WATER RETURN		
CHS	CHILLED WATER SUPPLY	N/A	NOT APPLICABLE
CI	CAST IRON	NC	NOISE CRITERIA
CO	CLEAN OUT	NC	NORMALLY CLOSED
COP	COEFFICIENT OF PERFORMANCE	NO	NORMALLY OPEN
CP	CONDENSATE PUMP	NPLV	NON-STANDARD PART LOAD VALUE
CSG	CLEAN STEAM GENERATOR	NTS	NOT TO SCALE
CV	CONSTANT VOLUME		
CW	COLD WATER (POTABLE)	OA	OUTSIDE AIR
CWCC	CHILLED WATER COOLING COIL		
		PC	PUMPED CONDENSATE
D	DAMPER - AUTOMATIC	PCF	POUNDS PER CUBIC FOOT (FEET)
D-1	OUTDOOR AIR DAMPER	PD	PRESSURE DROP
D-2	RETURN AIR DAMPER	PF	PRE-FILTER
D-3	RELIEF AIR DAMPER	PG	PRESSURE GAGE
DB	DECIBELS	PHC	PREHEAT COIL
DB	DRY-BULB TEMPERATURE	PRV	PRESSURE REGULATING VALVE
DDC	DIRECT DIGITAL CONTROLS	PSI	POUNDS PER SQUARE INCH
DEG	DEGREE		
DF	DIFFUSER	R/E	RETURN OR EXHAUST
DP	DEW POINT	RA	RETURN AIR
DPA	DIFFERENTIAL PRESSURE ASSEMBLY	RAT	RETURN AIR TEMPERATURE
DPS	DIFFERENTIAL PRESSURE SENSOR	RDS	ROOM DATA SHEETS
		REA	RELIEF AIR
EA	EXHAUST AIR	RF	RETURN FAN
EAT	ENTERING AIR TEMPERATURE	RH	RELATIVE HUMIDITY
EER	ENERGY EFFICIENCY RATIO	RHC	REHEAT COIL
EF	EXHAUST FAN	RLA	RUN LOAD AMPERE
EH	EXHAUST HOOD	RPM	REVOLUTIONS PER MINUTE
ENT	ENTERING		
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR
EWT	ENTERING WATER TEMPERATURE	SAT	SUPPLY AIR TEMPERATURE
EX	EXISTING	SCD	SMOKE CONTROL DAMPER
		SD	SMOKE DAMPER
F	FAHRENHEIT	SD	SMOKE DETECTOR
F&T	FLOAT AND THERMOSTATIC	SEN	SENSIBLE HEAT
FA	FREE AREA	SF	SUPPLY FAN
FC	FLEXIBLE CONNECTION	SH	STEAM HUMIDIFIER
FCW	FORWARD CURVED WHEEL (FAN)	SHC	STEAM HEATING COIL
FD	FIRE DAMPER	SI	SQUARE INCHES
FF	FINAL FILTER	SP	STATIC PRESSURE
FM	FLOW METER	SPRV	STEAM PRESSURE REDUCING VALVE
FFM	FEET PER MINUTE	SPS	STATIC PRESSURE SENSOR
FS	FLOW SWITCH	SQ FT	SQUARE FOOT (FEET)
FSTAT	FREEZESTAT	SS	STAINLESS STEEL
FT	FEET	ST	STEAM TRAP
FT-LB	FOOT-POUND	SV	STEAM PRESSURE REDUCING VALVE
FV	FACE VELOCITY		
		TAB	TESTING, ADJUSTING, BALANCE
GH	GRAVITY HOOD	TP	TRAP
GPM	GALLONS PER MINUTE	TSP	TOTAL STATIC PRESSURE
		TSTAT	THERMOSTAT
H	HUMIDIFIER	UL	UNDERWRITERS LABORATORY
HC	HEATING COIL	V	VALVE
HD	HEAD	VAV	VARIABLE AIR VOLUME
HOA	HAND/OFF/AUTOMATIC	VD	VOLUME DAMPER
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HPDT	HIGH PRESSURE DRIP TRAP	VHA	VETERANS HEALTH ADMINISTRATION
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)	VI	VIBRATION ISOLATOR
HPS	HIGH PRESSURE SUPPLY (STEAM)	VSMC	VARIABLE SPEED MOTOR CONTROL
HSTAT	HUMIDISTAT		
HW	HOT WATER	W	WATTS
HWC	HOT WATER COIL	Wb	WET-BULB (TEMPERATURE)
HWHC	HOT WATER HEATING COIL	WG	WATER GAGE
HWP	HEATING HOT WATER PUMP		
HWR	HEATING HOT WATER RETURN	YR	YEAR
HWS	HEATING HOT WATER SUPPLY		
HX	HEAT EXCHANGER		
HZ	HERTZ		

MECHANICAL LEGEND

	CARBON DIOXIDE THERMOSTAT		VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)		HIGH PRESSURE STEAM PIPING
	ROUND FLEX DUCT		VANED ELBOW (SHORT RADIUS)		MEDIUM PRESSURE STEAM PIPING
	DIFFUSER TAG		STANDARD RADIUS ELBOW (LONG RADIUS)		LOW PRESSURE STEAM PIPING
	DIFFUSER CFM		NEW DUCT (INSIDE DIMENSIONS: WIDTH X DEPTH)		CONDENSATE RETURN PIPING
	BALANCING DAMPER (RECTANGULAR)		EXISTING DUCT TO REMAIN		UNKNOWN EXISTING PIPING
	BALANCING DAMPER (ROUND)		EXISTING DUCT TO BE REMOVED		CHILLED WATER SUPPLY PIPING
	FIRE DAMPER		DUCT TRANSITION		CHILLED WATER RETURN PIPING
	GRAVITY BACKDRAFT DAMPER		SIDE MOUNTED GRILLE		HOT WATER SUPPLY PIPING
	SMOKE CONTROL DAMPER		STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)		HOT WATER RETURN PIPING
	DUCT SMOKE DETECTOR		SUPPLY DUCT (UP & DOWN)		PIPE UP
	AIR FLOW MEASUREMENT DEVICE		EXHAUST DUCT (UP & DOWN)		PIPE DOWN
	INCLINED RISE, IN DIRECTION OF AIRFLOW		RETURN DUCT (UP & DOWN)		BOTTOM CONNECTION
	INCLINED DROP, IN DIRECTION OF AIRFLOW				TOP CONNECTION
	CONNECT NEW DUCT TO EXISTING				CAPPED OUTLET
	LIMIT OF DEMOLITION				GLOBE VALVE
					GATE VALVE
					BALL VALVE
					PRESSURE RELIEF VALVE
					CHECK VALVE
					PRESSURE REGULATING VALVE
					WYE STRAINER VALVE
					BALANCING VALVE
					MOTORIZED CONTROL VALVE
					STEAM TRAP
					PRESSURE REDUCING VALVE

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