

MECHANICAL SYMBOLS AND ABBREVIATIONS

<p>SOIL, WASTE, OR SANITARY PIPE</p> <p>STORM WATER PIPE</p> <p>FOUNDATION DRAIN TILE</p> <p>CD CONDENSATE DRAIN PIPE</p> <p>VENT PIPE</p> <p>DOMESTIC COLD WATER PIPE</p> <p>DOMESTIC HOT WATER PIPE</p> <p>DOMESTIC HOT WATER RETURN PIPE</p> <p>NP NON-POTABLE WATER</p> <p>T DOMESTIC TEMPERED WATER PIPE</p> <p>S SPRINKLER SUPPLY PIPE</p> <p>F FIRE LINE PIPE</p> <p>G GAS PIPE</p> <p>CHS CHILLED/HEATING SUPPLY PIPE</p> <p>CHR CHILLED/HEATING RETURN PIPE</p> <p>CDS CONDENSER WATER SUPPLY PIPE</p> <p>CDR CONDENSER WATER RETURN PIPE</p> <p>LS HEAT PUMP LOOP SUPPLY PIPE</p> <p>LR HEAT PUMP LOOP RETURN PIPE</p> <p>PC PUMPED CONDENSATE PIPE</p> <p>CO CLEANOUT</p> <p>BACK WATER VALVE</p> <p>FLOOR DRAIN</p> <p>WALL HYDRANT</p> <p>HOSE BIBB</p> <p>FIRE DEPARTMENT CONNECTION (SIAMESE)</p> <p>SPRINKLER HEAD</p> <p>PIPE CAP OR PLUG</p> <p>UNION</p> <p>FLANGED PIPE CONNECTION</p> <p>PIPE ANCHOR</p> <p>PIPE GUIDE</p> <p>PIPE RUNNING IN SPLIT TILE</p> <p>FLEXIBLE CONNECTION (PIPING)</p> <p>EXPANSION JOINT</p> <p>CONCENTRIC REDUCER</p> <p>ECCENTRIC REDUCER</p> <p>FLOW DIRECTION ARROW</p> <p>STRAINER</p> <p>SHUT-OFF VALVE</p> <p>VALVE IN VERTICAL PIPE</p> <p>VALVE WITH MONITORING SWITCH</p> <p>BALANCING VALVE</p> <p>READABLE BALANCING VALVE</p> <p>GLOBE VALVE</p> <p>2-WAY AUTOMATIC TEMPERATURE CONTROL (ATC) VALVE</p> <p>3-WAY AUTOMATIC TEMPERATURE CONTROL (ATC) VALVE</p> <p>PRESSURE REDUCING VALVE</p> <p>PRESSURE RELIEF VALVE (NUMERALS INDICATE SETTING)</p> <p>GAUGE COCK</p> <p>VACUUM BREAKER</p> <p>THERMOMETER (NUMERALS INDICATE GRADUATION RANGE)</p> <p>PRESSURE GAUGE (NUMERALS INDICATE GRADUATION RANGE)</p> <p>20 GPM FLOW METER FITTING (METER WHERE NOTED) (NUMERALS INDICATE FLOW REQUIRED)</p> <p>AUTOMATIC AIR VENT</p> <p>FLOW SWITCH</p> <p>CHECK VALVE; (ARROWHEAD INDICATES DIRECTION OF FLOW)</p> <p>BACKFLOW PREVENTER</p> <p>WATER HAMMER ARRESTER</p> <p>CO2 (CARBON DIOXIDE SENSOR)</p>	<p>DUCT (SIZE IN INCHES, FIRST FIGURE SIDE SHOWN)</p> <p>SUPPLY OR OUTDOOR AIR DUCT SECTION</p> <p>RETURN OR EXHAUST AIR DUCT SECTION</p> <p>ACOUSTICALLY LINED DUCT; A/L (DIMENSIONS SHOWN ARE SHEET METAL SIZE)</p> <p>AUTOMATIC TEMPERATURE CONTROL (ATC) DAMPER</p> <p>MANUAL VOLUME DAMPER</p> <p>FIRE DAMPER</p> <p>MOTORIZED FIRE DAMPER</p> <p>SMOKE DAMPER</p> <p>SMOKE DETECTOR</p> <p>AIR DEVICE WITH 2'x2' LAY-IN PANEL</p> <p>SQUARE TO ROUND TRANSITION</p> <p>INCLINED DROP IN DIRECTION OF ARROW</p> <p>INCLINED RISE IN DIRECTION OF ARROW</p> <p>FLEXIBLE CONNECTION (DUCTWORK)</p> <p>ROUND FLEXIBLE DUCT</p> <p>ROUND STRAIGHT DUCT TAP FITTING WITH MANUAL VOLUME DAMPER CONNECTING TO RECTANGULAR DUCT</p> <p>ROUND CONICAL DUCT TAP FITTING WITH MANUAL VOLUME DAMPER CONNECTING TO RECTANGULAR DUCT</p> <p>ROUND CONICAL DUCT TAP FITTING CONNECTING TO RECTANGULAR DUCT</p> <p>RECTANGULAR 45 DEGREE DUCT TAP FITTING</p> <p>SOUND ATTENUATOR. LETTER DESIGNATES SPECIFIC UNIT. SEE SCHEDULE.</p> <p>INDICATES CONTINUATION ON SANITARY RISER DIAGRAM (X DENOTES RISER DIAGRAM)</p> <p>INDICATES PIPING DIAGRAM</p> <p>DETAIL OR DIAGRAM NO. 3 SHOWN ON DRAWING NO. 9</p> <p>SECTION NO. 3 FROM DRAWING NO. 7 SHOWN ON DRAWING NO. 9 (ARROW DENOTES SECTION)</p> <p>STATIC PRESSURE SENSOR</p> <p>EMERGENCY FAN DISCONNECT SWITCH</p> <p>THERMOSTAT</p> <p>HUMIDITY SENSOR</p> <p>POINT OF CONNECTION, NEW TO EXISTING</p> <p>DEMOLITION WORK TERMINATION POINT</p> <p>SYMBOL FOR SPECIFIC NOTE. NOTE APPLIES TO DRAWING ON WHICH IT OCCURS.</p>	<p>Ø INDICATES DIAMETER</p> <p>□ INDICATES SQUARE FOOT</p> <p>A/D ACCESS DOOR</p> <p>A/L ACOUSTICALLY LINED</p> <p>A COMPRESSED AIR PIPE</p> <p>AAV AUTOMATIC AIR VENT</p> <p>ABV ABOVE</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AHU AIR HANDLING UNIT</p> <p>ALUM ALUMINUM</p> <p>APD AIR PRESSURE DROP</p> <p>ASSOC ASSOCIATED</p> <p>ATC AUTOMATIC TEMPERATURE CONTROL</p> <p>AWT AVERAGE WATER TEMPERATURE</p> <p>BDD BACKDRAFT DAMPER</p> <p>BLDG BUILDING</p> <p>BLW BELOW</p> <p>BTM BOTTOM</p> <p>BTUH BRITISH THERMAL UNITS PER HOUR</p> <p>BV BALANCING VALVE</p> <p>BWV BACK WATER VALVE</p> <p>C CELSIUS</p> <p>CA CONDITIONED OUTDOOR AIR</p> <p>CD CONDENSATE DRAIN</p> <p>CDR CONDENSER WATER RETURN PIPE</p> <p>CDS CONDENSER WATER SUPPLY PIPE</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>CHR CHILLED/HEATING RETURN PIPE</p> <p>CHS CHILLED/HEATING SUPPLY PIPE</p> <p>CI CAST IRON</p> <p>CLG CEILING</p> <p>CO CLEANOUT</p> <p>CONC CONCRETE</p> <p>CONN CONNECT, CONNECTION</p> <p>CONTN CONTINUATION</p> <p>CV CHECK VALVE</p> <p>CW DOMESTIC COLD WATER PIPE</p> <p>DB DRY BULB</p> <p>DDC DIRECT DIGITAL CONTROL</p> <p>DEPT DEPARTMENT</p> <p>DESG DESIGNATION</p> <p>DF DRINKING FOUNTAIN</p> <p>DHC DUCT HEATING COIL</p> <p>DIA DIAMETER</p> <p>DWG DRAWING</p> <p>EA EXHAUST AIR</p> <p>EAT ENTERING AIR TEMPERATURE</p> <p>EDB ENTERING DRY BULB</p> <p>EF EXHAUST FAN</p> <p>EG EXHAUST GRILLE</p> <p>EJ EXPANSION JOINT</p> <p>ELEC ELECTRIC</p> <p>ELEV ELEVATION OR ELEVATOR</p> <p>ER EXHAUST REGISTER</p> <p>ESP EXTERNAL STATIC PRESSURE</p> <p>ETR EXISTING TO REMAIN</p> <p>EWB ENTERING WET BULB</p> <p>EWT ENTERING WATER TEMPERATURE</p> <p>EX EXISTING</p> <p>EXH EXHAUST</p> <p>EXP EXPANSION</p> <p>F/D FIRE DAMPER</p> <p>F FAHRENHEIT OR FIRE LINE PIPE</p> <p>FD FLOOR DRAIN</p> <p>FDC FIRE DEPARTMENT CONNECTION</p> <p>FHC FIRE HOSE CABINET</p> <p>FHV FIRE HOSE VALVE</p> <p>FL FLOOR</p> <p>FLA FULL LOAD AMPERES</p> <p>FOB FLAT ON BOTTOM</p> <p>FOT FLAT ON TOP</p> <p>FPS FEET PER SECOND</p> <p>FRG FILTER RETURN GRILLE</p> <p>FT FEET</p> <p>FT HD FEET OF HEAD</p> <p>FU FIXTURE UNITS</p> <p>G GAS PIPE</p> <p>GALV GALVANIZED</p> <p>GPM GALLONS PER MINUTE</p> <p>GR GRILLE</p> <p>HB HOSE BIBB</p> <p>HP HORSEPOWER</p> <p>HPC HIGH PRESSURE CONDENSATE PIPE</p> <p>HPS HIGH PRESSURE STEAM PIPE</p> <p>HW DOMESTIC HOT WATER PIPE</p> <p>HWR DOMESTIC HOT WATER RETURN PIPE</p> <p>IN INCH, INCHES</p> <p>INV INVERT</p> <p>LAT LEAVING AIR TEMPERATURE</p> <p>LB(S) POUND(S)</p> <p>LDB LEAVING DRY BULB</p> <p>LF LINEAR FEET</p> <p>LRA LOCKED ROTOR AMPERES</p> <p>LR HEAT PUMP LOOP RETURN PIPE</p> <p>LS HEAT PUMP LOOP SUPPLY PIPE</p> <p>LSD LINEAR SLOT DIFFUSER</p> <p>LWB LEAVING WET BULB</p> <p>LWT LEAVING WATER TEMPERATURE</p> <p>MAX MAXIMUM</p> <p>MBH THOUSAND BTU'S PER HOUR</p> <p>MCA MINIMUM CIRCUIT AMPACITY</p> <p>MECH MECHANICAL</p> <p>MF/D MOTORIZED FIRE DAMPER</p> <p>MFR MANUFACTURER</p> <p>MIN MINIMUM</p> <p>MOP MAXIMUM OVERCURRENT PROTECTION</p> <p>MTD MOUNTED</p> <p>MVD MANUAL VOLUME DAMPER</p> <p>NC NORMALLY CLOSED</p> <p>NIC NOT IN CONTRACT</p> <p>NO NORMALLY OPEN</p> <p>NPWC NON-POTABLE COLD WATER</p> <p>OAI OUTDOOR AIR INTAKE</p> <p>OA OUTDOOR AIR</p> <p>OC ON CENTER</p> <p>OED OPEN END DUCT WITH 1/2" FRAMED WIRE MESH SCREEN</p> <p>PC PUMPED CONDENSATE PIPE</p> <p>PD PRESSURE DROP</p> <p>PR PRESSURE RELIEF</p> <p>PRV PRESSURE RELIEF VALVE</p> <p>PSIG POUNDS PER SQUARE INCH GAUGE</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>PUH PROPELLER UNIT HEATER</p> <p>RA RETURN AIR</p> <p>RD ROOF DRAIN</p> <p>REG REGISTER</p> <p>REQ'D REQUIRED</p> <p>RF RETURN FAN</p> <p>RG RETURN GRILLE</p> <p>RL REFRIGERANT LIQUID</p> <p>RLA RUNNING LOAD AMPERES</p> <p>RPM REVOLUTIONS PER MINUTE</p> <p>RR RETURN REGISTER</p> <p>RS REFRIGERANT SUCTION</p> <p>RX REMOVE EXISTING</p> <p>S/D SMOKE DAMPER</p> <p>S/M SHEET METAL</p> <p>S SPRINKLER SUPPLY PIPE</p> <p>S/S STAINLESS STEEL</p> <p>SA SUPPLY AIR</p> <p>SAN SANITARY</p> <p>SD SUPPLY DIFFUSER</p> <p>SF SUPPLY FAN OR SQUARE FEET</p> <p>SG SUPPLY GRILLE</p> <p>SP STATIC PRESSURE</p> <p>SPD STATIC PRESSURE DROP</p> <p>SPEC SPECIFICATION</p> <p>SR SUPPLY REGISTER</p> <p>SST SATURATED SUCTION TEMPERATURE</p> <p>STL STEEL</p> <p>SQ SQUARE</p> <p>SW STORM WATER PIPE</p> <p>TEMP TEMPERATURE</p> <p>TG TRANSFER GRILLE</p> <p>TSP TOTAL STATIC PRESSURE</p> <p>TW DOMESTIC TEMPERED WATER PIPE</p> <p>TYP TYPICAL</p> <p>UNLESS OTHERWISE NOTED</p> <p>VP VENT PIPE</p> <p>VTR VENT THRU ROOF</p> <p>W/ WITH</p> <p>W/O WITHOUT</p> <p>WB WET BULB</p> <p>WC WATER COLUMN</p> <p>WH WALL HYDRANT</p> <p>WSHP WATER SOURCE HEAT PUMP</p>
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Sym.	REVISIONS	Date

Drawn	ARS
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Checked	SJH
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Scale NONE

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