

AIR DISTRIBUTION SYMBOLS

Table of air distribution symbols including duct dimensions (12x16), round duct (12"Ø), motorized damper, flexible duct, duct flexible connector, duct drops and rises, return and supply duct orientations, exhaust duct orientations, acoustical lining, round duct elbows, square to round transitions, caps, and various air flow indicators (EA, RA, SA) and sensors (humidistat, thermostat, smoke detector).

PIPING SYMBOLS

Table of piping symbols including unions, flanges, pipe anchors, elbows, tees, risers, cleanouts, wall cleanouts, pipe pitches, valves (gate, ball, butterfly, control, balancing, check, plug, globe, needle, back flow), solenoid valves, pressure regulating valves, relief valves, strainers, manual air vents, automatic air vents, pressure switches, flow switches, pressure gauges, thermometers, and hose end drain valves.

ABBREVIATIONS

Comprehensive table of abbreviations for HVAC and plumbing components, including AAV (Automatic Air Vent), ACC (Air Cooled Condenser), ACU (Air Conditioning Unit), AD (Access Door), AE (Acid Exhaust), AFF (Above Finished Floor), AFMS (Air Flow Measuring Station), AHU (Air Handling Unit), AP (Access Panel), ATC (Automatic Temperature Control), AV (Air Vent), BA (Breathing Compressed Air), BB (Baseboard), BDD (Backdraft Damper), BG (Blast Gate), BFP (Backflow Preventer), BLDG (Building), BOD (Bottom of Duct), BOP (Bottom of Pipe), BTU (British Thermal Unit), CBD (Counter Balanced Damper), CD (Ceiling Diffuser), CFF (Capped for Future), CFM (Cubic Feet per Minute), CLG (Ceiling), CO (Cleanout), CONT (Continuation), COORD (Coordinate), CP (Condensate Pump & Receiver), CT (Cooling Tower), CTE (Connect to Existing), CU (Copper), CUH (Cabinet Unit Heater), CV (Control Valve), CW (Cold Water), CW-P (City Water-Process), DC (Double Contained), DDC (Direct Digital Control), DIA (Diameter), DIC (Down in Chase), DIW (Down in Wall), DN (Down), DS (Downspout), DT (Drop and Transition), DWG (Drawing), DWH (Domestic Water Heater), EA (Exhaust Air), EF (Exhaust Fan), ENC (Enclosure), ER (Exhaust Register), (E) (Existing), EXIST. (Existing), FBO (Furnished by Owner), FBP (Face and Bypass), FC (Flexible Connection), FCO (Floor Cleanout), FD-# (Floor Drain Tag), FD (Fire Damper), FG (Fiberglass), F & T (Float and Thermostatic), FO (Flat Oval), FRHB (Freeze Resistant Hose Bibb), FTR (Finned Tube Radiation), FS (Flow Switch), GC (General Contractor), GPM (Gallons per Minute), H (Humidifier), HB (Hose Bib), HRU (Heat Recovery Unit), HTR (Heater), H & V (Heating and Ventilation), HVAC (Heating, Ventilating and Air Conditioning), HW (Hot Water), HX (Heat Exchanger), IN WG (Inches Water Gauge), LD (Lined Duct), MAU (Make Up Air Unit), MAX (Maximum), MBH (1000 BTU/hr.), ME (Mechanical Engineer), MFR (Manufacturer), MIN (Minimum), MD (Motor Operated Damper), MPV (Multi-Purpose Valve), MTD (Mounted), MUA (Make Up Air), NPW (Non-Potable Water), NTS (Not to Scale), P-# (Plumbing Fixture Tag), PEA (Alkali Exhaust), PEH (Heat Exhaust), OA (Outside Air), OBD (Opposed Blade Damper), OED (Open Ended Duct), P-# (Plumbing Fixture Tag), PAE (Process Acid Exhaust), PHE (Process Heat Exhaust), PSE (Process Solvent Exhaust), PP (Poly-Propylene), PPE (Pre Purchased Equipment), PRS (Pressure Reducing Station), PRV (Pressure Reducing Valve), PVD (Pneumatic Volume Damper), (R) (Remove), RA (Return Air), RD (Roof Drain), (REL.) (Relocated), RF (Return Fan), RG (Return Grille), RHG (Reheat Coil), RM (Room), RPZ (Reduced Pressure Zone BFP), RR (Return Register), RV (Relief Valve), SA (Supply Air), SCV (Self Contained Valve), SD (Smoke Detector), SF (Supply Fan), SG (Supply Grille), SR (Supply Register), SS (Stainless Steel), TE (Temperaturized Element (Sensor)), TG (Transfer Grille), TOD (Top of Duct), TOP (Top of Pipe), TTS (Tight to Steel), TV (Turning Vane(s)), TYP (Typical), UH (Unit Heater), UIC (Up in Chase), UIW (Up in Wall), UV (Unit Ventilator), VAV (Variable Air Volume Box), VB (Vacuum Breaker), VTR (Vent Thru Roof), VD (Manual Volume Damper), VCF (Valved and Capped for Future), VOC (Volatile Organic Compounds), VFD (Variable Frequency Drive), W/ (With), WCO (Wall Cleanout), WH (Wall Hydrant).

PIPING SYSTEMS

Table of piping systems including HF (Hot Water), AV (Acid Vent), AD (Acid Drain), H2O2 (Hydrogen Peroxide), HCR (Hot/Chilled Water Return), HCS (Hot/Chilled Water Supply), HCV (House Clean Vacuum), HGW (Hot Gas Water), HPS (High Pressure Steam), HPR (High Pressure Condensate Return), HWS (Hot Water Supply), HWR (Hot Water Return), IAD (Isopropyl Alcohol Drain), LP (Liquid Propane Gas), HLP (High Pressure Liquid Propane Gas), LPS (Low Pressure Steam), LPR (Low Pressure Return), MA (Medical Air), MPS (Medium Pressure Steam), MPR (Medium Pressure Return), MV (Medical Vacuum), N2NP (Non-Process Nitrogen), N2 (Process Nitrogen), NG (Natural Gas), HNG (High Pressure Natural Gas), NO2 (Nitrous Oxide), NEG. SOLV. (Negative Solvent Drain), NPW (Non Potable Cold Water), OFA (Oil Free Compressed Air), PCWR (Process Cooling Water Return), PC (Pumped Steam Condensate), PD (Pumped Discharge), POS. SOLV. (Positive Solvent Drain), PW (Potable Water), RL (Relief Line), R (Relief Line), RL (Refrigerant Liquid), RS (Refrigerant Suction), SLD (Mixed Solvent Drain), SV (Solvent), SP (Sprinkler), TWS (Tempered Chilled Water Supply), TWR (Tempered Chilled Water Return), VAC (Plant Vacuum), ZB (Zone Valve Box), TEMP (Domestic Hot Water), RECIRC. TEMP (Recirc. Domestic Hot Water), DOMESTIC COLD WATER, RCW (Recirculated Domestic Hot Water), S, W or KW (Sanitary, Waste & Kitchen Waste), S, W or KW (Sanitary, Waste & Kitchen Waste (Exist.)), S, W or KW (Sanitary, Waste & Kitchen Waste (Below Slab)), S, W or KW (Sanitary, Waste & Kitchen Waste (Below Slab-Exist.)), SD (Storm Drain), SD (Storm Drain (Exist.)), SD (Storm Drain (Below Slab)), SD (Storm Drain (Below Slab-Exist.)), V (Sanitary Vent), V (Sanitary Vent (Exist.)), V (Sanitary Vent (Below Slab)), V (Sanitary Vent (Below Slab-Exist.)).

GENERAL NOTE
1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL HVAC AND PLUMBING DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.

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STATE OF MAINE
MICHAEL
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No. 9541
REGISTERED
Professional Engineer
4/17/06

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ISSUED FOR PRICING/PERMITTING 4-18-06

Table with columns for REV, DESCRIPTION, DATE. Includes entry: 0 ISSUED FOR PRICING/PERMITTING 4-18-06

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