

PLUMBING ABBREVIATIONS

A/E ARCHITECT / ENGINEER
 AD AREA DRAIN
 AFF ABOVE FINISH FLOOR
 AFG ABOVE FINISH GRADE
 AG AIR GAP
 AP ACCESS PANEL
 ASHRAE AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
 ASME AMERICAN SOCIETY MECHANICAL ENGINEERS
 ASPE AMERICAN SOCIETY PLUMBING ENGINEERS
 BFP REDUCED PRESSURE BACKFLOW PREVENTER
 BHP BREAK HORSEPOWER
 BTU BRITISH THERMAL UNIT
 BTUH BRITISH THERMAL UNIT PER HOUR
 C CELSIUS
 CGA COMPRESSED GAS ASSOCIATION
 CI CAST IRON
 CO CLEANOUT
 CW DOMESTIC COLD WATER
 HW DOMESTIC HOT WATER
 DN DOWN
 DOE DEPARTMENT OF ENERGY
 DS DOWNSPOUT
 DWG DRAWING
 EL ELEVATION
 ESC ESCUTCHION
 ET EXPANSION TANK
 EWC ELECTRIC WATER COOLER
 EWH ELECTRIC WATER HEATER
 EWS EYE WASH STATION
 F FAHRENHEIT
 FCO FLOOR CLEANOUT
 FD FLOOR DRAIN
 FS FLOOR SINK
 FU FIXTURE UNITS
 GAL GALLON
 GPM GALLONS PER MINUTE
 HB HOSE BIBB
 HD HUB DRAIN
 HP HORSEPOWER
 INV INVERT
 IPC INTERNATIONAL PLUMBING CODE
 IRW IRRIGATION WATER
 IW INDIRECT WASTE
 IWH INSTANTANEOUS WATER HEATER
 KW KILOWATT
 KWHR KILOWATT-HOUR
 LAV LAVATORY
 LBS/HR POUNDS PER HOUR
 M METER
 MBH 1000 BTUH
 MH MANHOLE
 MB MOP BASIN
 NC NORMALLY CLOSED
 NO NORMALLY OPEN
 NOM NOMINAL
 NTC NOT TO SCALE
 PD PRESSURE DROP OR DIFFERENCE
 PDI PLUMBING AND DRAINAGE INSTITUTE
 PG PRESSURE GAGE
 PRV PRESSURE REDUCING VALVE
 PSI POUNDS PER SQUARE INCH
 PSIG POUNDS PER SQUARE INCH GAUGE
 SAN SANITARY SEWER
 SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
 SCFM STANDARD CUBIC FOOT/MINUTE
 SQFT SQUARE FEET
 SK SINK
 TD TEMPERATURE DIFFERENCE
 TEMP TEMPERATURE
 TSTAT THERMOSTAT
 TYP TYPICAL
 UPC UNIFORM PLUMBING CODE
 V VENT
 VTR VENT THROUGH ROOF
 WC WATER CLOSET
 WCO WALL CLEANOUT
 WH WATER HEATER
 WHA WATER HAMMER ARRESTER
 WM WATER METER
 WPD WATER PRESSURE DROP
 YCO YARD CLEANOUT
 YH YARD HYDRANT

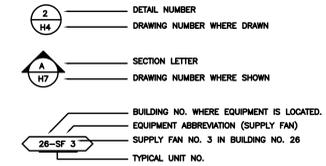
HVAC ABBREVIATIONS

A/E ARCHITECT / ENGINEER
 AB AIR BLENDER
 AAV AUTOMATIC AIR VENT
 ACC AIR COOLED CONDENSER
 ADD ACCESS DOOR
 AF AFTER FILTER
 AFF ABOVE FINISH FLOOR
 AHU AIR-HANDLING UNIT
 AP ACCESS PANEL
 APD AIR PRESSURE DROP
 BDD BACKDRAFT DAMPER
 BFP BACKFLOW PREVENTER
 BHP BREAK HORSEPOWER
 BTU BRITISH THERMAL UNIT
 BTUH BRITISH THERMAL UNIT PER HOUR
 CC COOLING COIL
 CFM CUBIC FEET PER MINUTE
 CI CAST IRON
 CO CLEAN OUT
 COMP COMPRESSOR UNIT
 COP COEFFICIENT OF PERFORMANCE
 CR CEILING REGISTER
 CU CONDENSING UNIT
 CUH CABINET UNIT HEATER
 CW COLD WATER (POTABLE)
 D DAMPER - AUTOMATIC
 DB DECIBELS
 Db DRY-BULB TEMPERATURE
 DEG DEGREE
 DIA DIAMETER
 DP DEW POINT TEMPERATURE
 DX DIRECT EXPANSION
 EA EXHAUST AIR
 EAT ENTERING AIR TEMPERATURE
 ECU EVAPORATIVE CONDENSER UNIT
 EDH ELECTRIC DUCT HEATER
 EER ENERGY EFFICIENCY RATIO
 EF EXHAUST FAN
 EG EXHAUST GRILLE
 EH EXHAUST HOOD
 ERC ELECTRIC REHEAT COIL
 ESP EXTERNAL STATIC PRESSURE
 ET EXPANSION TANK
 EUH ELECTRIC UNIT HEATER
 EWC EVAPORATIVE WATER COOLER
 EWT ENTERING WATER TEMPERATURE
 F FAHRENHEIT
 F/SDPR COMBINATION FIRE SMOKE DAMPER
 FA FREE AREA
 FC FLEXIBLE CONNECTION
 FD FLOOR DRAIN
 FD FIRE DAMPER
 FPM FEET PER MINUTE
 FPS FEET PER SECOND
 FPTU FAN POWERED TERMINAL UNIT
 FS FLOW SWITCH
 FSTAT FREEZESTAT
 FT FEET
 FT-LB FOOT-POUND
 FV FACE VELOCITY
 GA GAUGE
 GH GRAVITY HOOD
 GPD GALLONS PER DAY
 GPM GALLONS PER MINUTE
 HW HOT WATER
 HAC HOUSEKEEPING AID CLOSET
 HB HOSE BIBB
 HC HEATING COIL
 HOA HAND/OFF/AUTOMATIC
 HP HEAT PUMP
 HP HORSEPOWER
 HPS HIGH PRESSURE SUPPLY (STEAM)
 HW HOT WATER
 HX HEAT EXCHANGER
 HZ HERTZ
 I/O INPUT/OUTPUT
 IAQ INDOOR AIR QUALITY
 IN WC INCH WATER COLUMN
 KW KILOWATT
 LAT LEAVING AIR TEMPERATURE
 LB/HR POUNDS PER HOUR
 LSD LINEAR SLOT DIFFUSER
 LVR LOUVER
 LWT LEAVING WATER TEMPERATURE
 M METER
 MA MIXED AIR
 MAT MIXED AIR TEMPERATURE
 MAU MAKE-UP AIR UNIT
 MBH 1000 BTUH
 MERV MINIMUM EFFICIENCY REPORTING VALVE
 MHP MOTOR HORSEPOWER
 MIN MINIMUM
 MVD MANUAL VOLUME DAMPER
 NA NOT APPLICABLE
 NC NOISE CRITERIA
 NC NORMALLY CLOSED
 NO NORMALLY OPEN
 NOM NOMINAL
 NTS NOT TO SCALE
 OA OUTSIDE AIR
 PD PRESSURE DROP
 PF PRE-FILTER
 PG PRESSURE GAGE
 PHC PREHEAT COIL
 PSI POUNDS PER SQUARE INCH
 RA RETURN AIR
 RG RETURN GRILLE
 RH RELATIVE HUMIDITY
 SA SUPPLY AIR
 SAT SUPPLY AIR TEMPERATURE
 SD SUPPLY AIR DIFFUSER
 SEN SENSIBLE HEAT
 SF SUPPLY FAN
 SG SUPPLY AIR GRILLE
 SI SQUARE INCHES
 SP STATIC PRESSURE
 TAB TESTING, ADJUSTING, BALANCE
 TD TEMPERATURE DIFFERENCE
 TSP TOTAL STATIC PRESSURE
 TSTAT THERMOSTAT

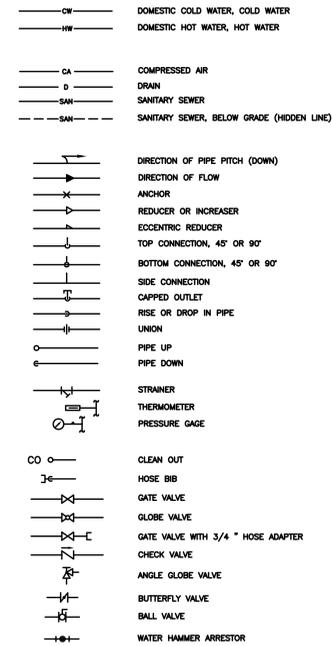
GENERAL NOTES

- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE HARD SUSPENDED CEILING.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- EXTERNAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, AND FILTER LOADING. IT DOES NOT INCLUDE INTERNAL EQUIPMENT COMPONENTS, TERMINAL.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

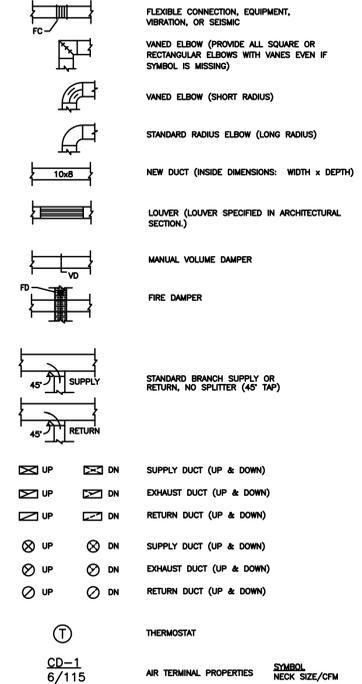
DRAWING SYMBOLS



PIPING SYMBOLS



DUCTWORK SYMBOLS



BID DOCUMENTS 7/1/2011

Revisions	Date

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I hereby certify that this Plan, Specification, or Report was prepared by me, or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Oregon.
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NATIONAL CEMETERY ADMINISTRATION

Drawing Title
MECHANICAL GENERAL NOTES - ADMIN
 Approved: Director, Office of Construction Management
 Approved: Director, Project Management Service

Project Title
REPLACE ADMINISTRATION AND MAINTENANCE BUILDING AND SITE IMPROVEMENTS
 Building Number: **1001**
 Checked: **DavBod**
 Drawn: **JamTho**
 Location: **EAGLE POINT NATIONAL CEMETERY 2763 RILEY ROAD EAGLE POINT, OR 97524**

Date: **7-1-2011**
 Project No: **906CM3009**
 DRAWING NO.: **H-1001-01**
 Dwg. 84 OF 181