

AIR DISTRIBUTION SYMBOLS

- 12x16 RECTANGULAR DUCT (FIRST NUMBER IS SIDE SHOWN)
- 12" DIA 12 INCH ROUND DUCT
- MOTORIZED DAMPER
- FLEXIBLE DUCT
- DUCT FLEXIBLE CONNECTOR (FC)
- DUCT DROPS AND RISES IN DIRECTION OF AIR FLOW
- RETURN DUCT TURNED UP OR DOWN (DASHED)
- SUPPLY DUCT TURNED UP OR DOWN (DASHED)
- EXHAUST DUCT TURNED UP OR DOWN (DASHED)
- ACQUASUB LIVING DUCT DIM FOR NET FREE AREA
- ROUND DUCT ELBOW DOWN
- ROUND DUCT ELBOW UP
- SQUARE TO ROUND TRANSITION
- CAP (DUCT AND/OR PIPE)
- INDICATES DUCT EQUIPMENT TO BE REMOVED.
- EXHAUST AIR
- RETURN AIR
- SUPPLY AIR

- VOLUME DAMPER
- FIRE DAMPER
- SMOKE DAMPER
- TAG NO.
- COMBINATION SMOKE/FIRE DAMPER
- TAG NO.
- RECTANGULAR ELBOW W/TURNING VANES
- DIRECTION OF AIR FLOW (IN)
- DIRECTION OF AIR FLOW (OUT)
- HUMIDISTAT OR HUMIDITY SENSOR
- THERMOSTAT (TSTAT) OR TEMP. SENSOR
- SMOKE DETECTOR
- DEFUSER, REGISTER OR GRILLE TAG
- FLOW QUANTITY
- TYP. 3
- FINNED TUBE TAG
- LENGTH OF FINNED ELEMENT
- TYP. 3
- DETAIL NO. WHERE DETAIL IS LOCATED
- SHEET NO.
- EQUIPMENT TAG
- EQUIPMENT NO.

PIPING SYMBOLS

- UNION
- FLANGE
- PIPE ANCHOR
- PIPE GUIDE OR SLEEVES
- PIPE ELBOW TURNED DOWN
- PIPE ELBOW TURNED UP
- PIPING TEE-DOWN
- PIPING TEE-UP
- PIPE RISER
- OFCO FLOOR CLEAN OUT
- HCO WALL CLEAN OUT
- PIPE PITCHES DOWN
- GENERIC VALVE. SEE SPECIFICATIONS FOR TYPE
- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE (MANUAL)
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- BALANCING VALVE (CIRCUIT SETTER)
- CHECK VALVE
- PLUG VALVE
- GLOBE VALVE
- NEEDLE VALVE
- BACK FLOW PREVENTER
- SOLENOID VALVE
- PRESSURE REDUCING OR REGULATING VALVE
- PRESSURE RELIEF VALVE
- STRAINER
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- PRESSURE SWITCH
- FLOW SWITCH
- PRESSURE GAUGE AND COCK
- THERMOMETER AND WELL
- TEMPERATURE & PRESSURE TAP (PETE'S PLUG)
- HOSE END DRAIN VALVE WITH CAP

- ORIFICE FLOWMETER
- FLEXIBLE PIPE CONNECTOR EXPANSION
- STEAM TRAP (FLOAT AND THERMOSTATIC INDICATED T.T. THERMOSTAT, B.T. BUCKET TRAP, T.D. THERMODYNAMIC TRAP)
- ECCENTRIC REDUCER/INCREASER
- IB HOSE BIBB
- WH WALL HYDRANT
- DIRECTION OF FLOW
- FIRE DEPARTMENT CONNECTION
- PUMP
- WATER HAMMER SUPPRESSOR
- FINNED TUBE BASEBOARD
- HUMIDIFIER
- DIFFERENTIAL PRESSURE TRANSMITTER
- SPRINKLER HEAD
- GAS TURRET
- MEDICAL OXYGEN OUTLET
- MEDICAL VACUUM INLET
- MEDICAL AIR OUTLET
- NITROUS OXIDE OUTLET

ABBREVIATIONS

- AV AUTOMATIC AIR VENT
- ACC AIR COOLED CONDENSER
- ACU AIR CONDITIONING UNIT
- AD ACCESS DOOR
- AE ACID EXHAUST
- AF ABOVE FINISHED FLOOR
- AFMS AIR FLOW MEASURING STATION
- AHU AIR HANDLING UNIT
- ATC AUTOMATIC TEMPERATURE CONTROL
- AV AIR VENT
- BA BREATHING COMPRESSED AIR
- BB BASEBOARD
- BDD BACKDRAFT DAMPER
- BG BLAST GATE
- BP BACKFLOW PREVENTER
- BLDG BUILDING
- BOD BOTTOM OF DUCT
- BOP BOTTOM OF PIPE
- BTU BRITISH THERMAL UNIT
- CBQ 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
- CM-P CITY WATER-PROCESS
- MFR MANUFACTURER
- DC DOUBLE CONTAINED
- DDC DIRECT DIGITAL CONTROL
- DIA DIAMETER
- DW 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
- ER EXHAUST REGISTER
- ER EXHAUST REGISTER
- EXIST. 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
- FRIB FREEZE RESISTANT HOSE BIBB
- FTR FINNED TUBE RADIATION
- FS FLOW SWITCH
- GC GENERAL CONTRACTOR
- GPM GALLONS PER MINUTE
- H HUMIDIFIER
- HB HOSE BIB
- HRI 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
- OA OUTSIDE AIR
- OPD OPPOSED BLADE DAMPER
- OPEN OPEN ENDED DUCT
- P-# PLUMBING FITTURE TAG
- PEA ALKALI EXHAUST
- PEH HEAT EXHAUST
- 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
- (REL.) RELOCATED
- RD ROOF DRAIN
- RF RETURN FAN
- RG RETURN GRILLE
- RHC REHEAT COIL
- ROOM 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 TEMPERATURED ELEMENT (SENSOR)
- TC TRANSFER GRILLE
- TOD TOP OF DUCT
- TOP TOP OF PIPE
- TTS TIGHT TO STEEL
- TV TURNING VANES(S)
- TYP TYPICAL
- UH UNIT HEATER
- UC UP IN CHASE
- UW UP IN WALL
- UV UNIT VENTILATOR
- VAV VARIABLE AIR VOLUME BOX
- VB VACUUM BREAKER
- VTR VENT THRU ROOF
- VO MANUAL VOLUME DAMPER
- VCFF VALVED AND CAPPED FOR FUTURE
- VFD VARIABLE FREQUENCY DRIVE
- VOC VOLATILE ORGANIC COMPOUNDS
- W/ WITH
- WCO WALL CLEANOUT
- WH WALL HYDRANT

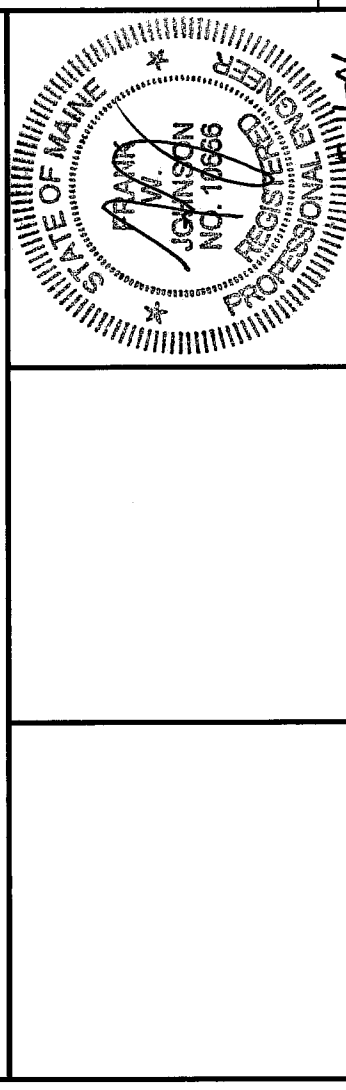
GENERAL NOTE

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

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ARCHITECTURE ENGINEERING PLANNING
SMRT
144 Fore Street P.O. Box 418
Portland, Maine 04104
Tel: (207) 772-3886
Fax: (207) 772-0099

UnumProvident HO-1
MITCO VALVE REPLACEMENT
PORTLAND, ME

PROJECT TITLE: NTS
SCALE: 5-11-06
PROJECT MANAGER: JH
JOB CAP/DRAWN: CAH
A/E OF RECORD: TWJ
SMART CAD FILE: M-001-0600B
PROJECT NO. 0600B

LEGEND & ABBREVIATIONS

SHEET NO. M-001

PIPING SYSTEMS

- 10:1 HF 10:1 HF
- AV ACID VENT
- AD ACID DRAIN
- AD ACID DRAIN (BELOW SLAB)
- BA BREATHING AIR
- CD CONDENSATE DRAIN
- CHA COMPRESSED DRY AIR
- CWS CONDENSER WATER SUPPLY
- CWR CONDENSER WATER RETURN
- DB DISTRIBUTION VALVE BOX
- DIS DEIONIZED WATER SUPPLY
- DIR DEIONIZED WATER RETURN
- EDC EIC DRAIN
- ESW EYEWASH
- FCS FREE COOLING SUPPLY
- FOR FREE COOLING RETURN
- FOS FUEL OIL SUPPLY
- FOR FUEL OIL RETURN
- FOV FUEL OIL VENT
- GCR GRAVITY STEAM CONDENSATE RETURN
- GLY GLYCOL
- GV GAS VENT
- H HYDROGEN
- H2O2 HYDROGEN PEROXIDE
- HCR HOT/ CHILLED WATER RETURN
- HCS HOT/ CHILLED WATER SUPPLY
- HCV HOUSE CLEAN VACUUM
- HG HOT GAS
- HPS HIGH PRESSURE STEAM
- HPR HIGH PRESSURE CONDENSATE RETURN
- HWS HOT WATER SUPPLY
- HWR HOT WATER RETURN
- IAO ISOPROPYL ALCOHOL DRAIN
- LP LIQUID PROPANE GAS
- LPS LOW PRESSURE STEAM
- LPR LOW PRESSURE RETURN
- MA MEDICAL AIR
- MPS MEDIUM PRESSURE STEAM
- MPP MEDIUM PRESSURE RETURN
- MDV MEDICAL VACUUM
- N2P 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
- O2 OXYGEN
- OFA OIL FREE COMPRESSED AIR
- PCW PUMPED COOLING WATER RETURN
- PC PUMPED STEAM CONDENSATE
- PD PUMPED DISCHARGE
- POS. SOLV. POSITIVE SOLVENT DRAIN
- PW POTABLE WATER
- R RELIEF LINE
- RL REFRIGERANT LIQUID
- RS REFRIGERANT SUCTION
- SLD MIXED SOLVENT DRAIN
- SV SOLVENT
- SP SPRINKLER
- TMS TEMPERED CHILLED WATER SUPPLY
- TWR TEMPERED CHILLED WATER RETURN
- VAC VACUUM
- ZB ZONE VALVE BOX
- TEMP DOMESTIC HOT WATER (TEMP F)
- TEMP DOMESTIC COLD WATER
- HW DOMESTIC HOT WATER
- RECIRC. DOMESTIC HOT WATER
- RECIRC. DOMESTIC COLD WATER
- RECIRC. DOMESTIC HOT WATER
- RECIRC. DOMESTIC COLD WATER
- S, W or KW SANITARY, WASTE & KW KITCHEN WASTE
- S, W or KW SANITARY, WASTE & KW KITCHEN WASTE (EXIST.)
- S, W or KW SANITARY, WASTE & KW KITCHEN WASTE (BELOW SLAB)
- S, W or KW SANITARY, WASTE & KW KITCHEN WASTE (BELOW SLAB)
- SD STORM DRAIN
- SD STORM DRAIN (EXIST.)
- SD STORM DRAIN (BELOW SLAB)
- SD STORM DRAIN (BELOW SLAB)
- V SANITARY VENT
- V SANITARY VENT (EXIST.)
- V SANITARY VENT (BELOW SLAB)
- V SANITARY VENT (BELOW SLAB)