

ABBREVIATIONS & SYMBOLS

AD	ACCESS DOOR
AFC	ABOVE FINISHED FLOOR
AFO	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APL	ACCESS PANEL UNLINED
BIA	BACKWARD INCLINED AIRFOL
BBD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CeILING
CON	CONNECTION
COH	CORNER UNIT HEATER
CUH	CORNER UTILITY FAN
CW	COLD WATER
DB	DUCT BLOWER
DN	DOWN
E/A	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXISTING FAN
EXST	EXISTING
F&T	FLOOR AND THERMOSTATIC
F&T	FLOOR AND THERMOSTATIC
FC	FORWARD CURVED
FD	FLOOR DRAIN
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HW	HOT WATER
HWC	HOT WATER RECIRC.
HWS	HOT WATER SUPPLY
LBS.#	POUNDS
MC	MECHANICAL CONTRACTOR
MDO	MOTOR OPERATED DAMPER
MO	MOTOR OPERATED DAMPER
NO	NORMALLY OPEN
NOS	NORMALLY CLOSED
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
O/A	OUTSIDE AIR
PF-C	PROPPELLER FAN - COMMERCIAL
PSY	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
R/A	RETURN AIR
S/A	SUPPLY AIR
S/C	SUPPLY AIR - CENTRIFUGAL FAN
SS	STAINLESS STEEL
UH	UNDERBOUT DOOR
UH	UNIT HEATER
V	VENT
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF
W	SANITARY WASTE PIPING
WOO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR

	EXISTING WORK TO REMAIN
	NEW WORK ON PROPOSED DWGS
	EXISTING WORK TO BE REMOVED
	WORK ON DEMOLITION DWGS
	EXPANSION LOOP
	PIPE TURNING DOWN (PIPE DROP)
	PIPE TURNING UP (PIPE RISE)
	TEE UP (OFF TOP)
	TEE DOWN (OFF BOTTOM)
	PIPE DROP IN RUN
	PIPE DROP AND TURN
	TEE OF TOP
	TEE OF BOTTOM
	CROSS AND RISER
	PLAIN ELBOW
	PLAIN TEE (OFF SIDE)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	SCREWED UNION
	FLANGED UNION
	PIPE CAP
	WALL SLEEVE
	FLEX CONNECTION
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	PITCH PIPE DOWN
	CLEANOUT END OF LINE
	AUTOMATIC AIR VENT W/PETCOCK
	PUMP

FITTINGS

VALVES

	AUTOMATIC FLOW CONTROL
	BALL OR BUTTERFLY (SIZE DEPENDENT)
	CHECK
	BALANCING
	GATE
	GLOBE VALVE
	PLUG
	PRESSURE REGULATING
	RELIEF
	TRIPLE DUTY
	VALVE IN DROP BELOW
	VALVE IN VERTICAL
	2-WAY ELECTRIC MOTOR
	3-WAY ELECTRIC MOTOR
	WYE STRAINER W/VALVE
	WATER HAMMER ARRESTOR
	BACK FLOW PREVENTER
	MANUAL VENT
	HOSE BIBB (SIDE VIEW)
	HOSE BIBB (PLAN VIEW)
	PRESSURE REDUCING VALVE

PIPING

	HWS - HOT WATER SUPPLY (HEATING)
	HWR - HOT WATER RETURN (HEATING)
	FOS - FUEL OIL SUPPLY PIPING
	FOV - FUEL OIL VENT
	FP - FIRE SPRINKLER PIPING
	DCW - DOMESTIC COLD WATER
	DHW - DOMESTIC HOT WATER
	TW - TEMPERED WATER
	DHW-RC - DOMESTIC HOT WATER RECIRC.
	SW - SANITARY WASTE
	SW-BF - SANITARY WASTE BELOW FLOOR
	SW-V - SANITARY WASTE VENT
	DF - DIRECTION OF FLOW
	PW - PUMPED WASTE

HVAC

	SUPPLY AIR DUCT (RISE UP)
	SUPPLY AIR DUCT (DROP DOWN)
	RETURN AIR DUCT (RISE UP)
	RETURN AIR DUCT (DROP DOWN)
	EXHAUST DUCT (RISE UP)
	EXHAUST DUCT (DROP DOWN)
	DUCT SIZE (FIRST DIMENSION SIDE SHOWN)
	RISE IN DIRECTION OF FLOW
	DROP IN DIRECTION OF FLOW
	ELBOW WITH TURNING VANES
	DOUBLE WALL DUCT
	END CAP
	45° TAKE-OFF (RECTANGULAR)
	TRANSITION (RECTANGLE TO ROUND)
	TRANSITION (ROUND TO RECTANGLE)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	VOLUME DAMPER
	FIRE DAMPER
	MOTOR OPERATED DAMPER
	FLEXIBLE CONNECTION
	SUPPLY ARROW
	RETURN ARROW
	SUPPLY AIR DIFFUSER/REGISTER OR GRILLE
	RETURN/EXHAUST AIR REGISTER OR GRILLE
	THERMOSTAT
	HIGH SPEED/LOW SPEED CFM

<p>HP-05b</p>	<p>DRAWN: J.LAMOTHE CHECKED: M.COOK DATE: JAN 15, 2001</p>	<p>WILLISTON INFORMATION CENTER 189 SOUTHBOUND STATE PROJECT # IM-BLDG (4)</p>	<p>DUNCAN • WISNIEWSKI ARCHITECTURE 255 SOUTH CHAMPLAIN STREET, BURLINGTON, VERMONT 05401 (802) 864-6693</p>	<p>Hallam Associates 60 Farrell Street, Suite 300 So. Burlington, Vermont 05403 (802) 658-4691</p>	<table border="1"> <tr><th>No.</th><th>DATE</th><th>REVISION</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	No.	DATE	REVISION										<p>1/16/01</p>
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