

1 HVAC LEGEND (SYMBOLS)

PLAN SYMBOLS

	HWS	HOT WATER SUPPLY		UNION
	HWR	HOT WATER RETURN		FLANGE
	SHWS	SECONDARY HOT WATER SUPPLY		STRAINER ASSEMBLY
	SHWR	SECONDARY HOT WATER RETURN		PRESSURE GAUGE ASSEMBLY
	CHS	CHILLED WATER SUPPLY		PRESSURE TEMPERATURE TAP WITH CAP
	CHR	CHILLED WATER RETURN		THERMOMETER WELL
	SCHS	SECONDARY CHILLED WATER SUPPLY		PIPE TURNED UP
	SCHR	SECONDARY CHILLED WATER RETURN		PIPE TURNED DOWN
	PC	PUMPED CONDENSATE		ORIFICE
	D	DRAIN		FLOW INDICATING ASSEMBLY
	V	VENT		THERMOMETER
	GL	GAUGE		PRESSURE SENSOR
	ECHS	PIPING PRECEDED WITH AN "E" SHALL BE EXISTING (EXAMPLE: EXISTING CHILLED WATER SUPPLY)		TEMPERATURE SENSOR
		GATE VALVE		FINNED TUBE RADIATION
		GLOBE VALVE		A = TYPE B = LENGTH IN FEET
		ANGLE GLOBE		DUCT UNDER POSITIVE PRESSURE
		BALL VALVE		DUCT UNDER NEGATIVE PRESSURE
		NEEDLE VALVE		AIR OUTLET LABEL Q = QUANTITY AxB = NECK SIZE C = TYPE XX = CFM
		LOCK SHIELD VALVE		ACCESS PANEL (ACCESS DOOR)
		BUTTERFLY VALVE		RISE
		LUBRICATED PLUG VALVE		DROP
		FLOW CONTROL BALANCING VALVE		SYMBOL WITH NO MARK IS A MANUAL OBD
		CONSTANT FLOW VALVE		FIRE DAMPER
		QUICK ACTING VALVE		OPPOSED BLADE VOLUME DAMPER
		HOSE END VALVE WITH CAP & CHAIN		AUTOMATIC DAMPER OPPOSED BLADE
		PNEUMATIC AUTOMATIC VALVE (TWO WAY)		SMOKE DAMPER
		PNEUMATIC AUTOMATIC VALVE (THREE WAY)		FIRE SMOKE DAMPER
		ELECTRIC MOTORIZED AUTOMATIC VALVE		BACK DRAFT DAMPER
		ELECTRIC SLOW ACTING SOLENOID VALVE		SQUARE ELBOW WITH TURNING VANES
		ELECTRIC SOLENOID VALVE		FLEXIBLE DUCTWORK
		RELIEF VALVE OR SAFETY VALVE		FLEXIBLE CONNECTION
		FUSIBLE LINK VALVE		TRANSFER OPENING ABOVE HUNG CEILING ("A" SQUARE FEET FREE AREA)
		CHECK VALVE		DOOR UNDER CUT ("A" CFM)
		PIPE GUIDE		THERMOSTAT
		PIPE ANCHOR		HUMIDISTAT
		CONCENTRIC REDUCER		CONNECT TO EXISTING
		ECCENTRIC REDUCER		
		MANUAL AIR VENT		
		AUTOMATIC AIR VENT		
		VACUUM BREAKER		
		EXPANSION JOINT		
		HOSE END WITH CAP AND CHAIN		
		BALL JOINT		
		FLEXIBLE CONNECTION		

	VAV BOX
	VAV BOX WITH COIL
	VAV BOX DESIGNATION NUMBER A
	AIR SIDE
	WATER SIDE
	DETAIL REFERENCE (DETAIL "X" ON DRAWING "Z")
	SECTION MARK (SECTION "X" ON DRAWING "Z")
	REFERENCE LINE
	SMOKE DETECTOR
	FLOW SWITCH
	DDC CONTROL PANEL
	LOCAL CONTROL PANEL

DIAGRAM SYMBOLS

	PUMP
	FAN (AXIAL)
	CENTRIFUGAL FAN
	PROPELLER FAN
	DUCT CAP
	TO BE REMOVED
	STARTING OR STOPPING POINT OF DEMOLITION. PROVIDE TEMPORARY CAP

LEGEND.DWG - 03/28/07

3 HVAC LEGEND (SINGLE AND DOUBLE-LINE DUCTWORK)

SINGLE-LINE DUCTWORK	DOUBLE-LINE DUCTWORK	SECTION (IF APPLICABLE)	SINGLE-LINE DUCTWORK	DOUBLE-LINE DUCTWORK