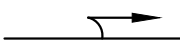
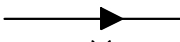
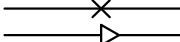
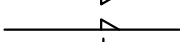
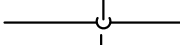

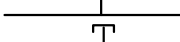
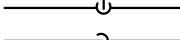
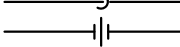
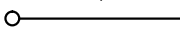


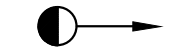
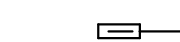



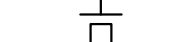
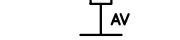
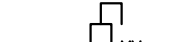
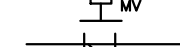
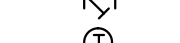
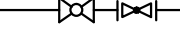
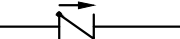
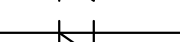



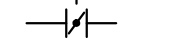
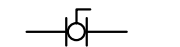
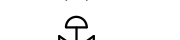
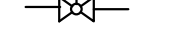
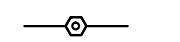

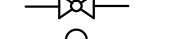



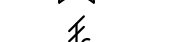



	UP		DN	SUPPLY DUCT (UP & DOWN)
	UP		DN	EXHAUST DUCT (UP & DOWN)
	UP		DN	RETURN DUCT (UP & DOWN)
				ROUND AND SQUARE 4-WAY CEILING DIFFUSERS
				SQUARE 3-WAY CEILING DIFFUSERS
				SQUARE 2-WAY CEILING DIFFUSERS
				SQUARE 1-WAY CEILING DIFFUSERS
				FIN TUBE UNIT HEATER
				SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
				EXHAUST OR RETURN CEILING REGISTER OR GRILLE (WALL TYPE)
				EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
				EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
				VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
				CONNECT NEW DUCT TO EXISTING DUCT
				INCLINED RISE, IN DIRECTION OF AIR FLOW
				INCLINED DROP, IN DIRECTION OF AIR FLOW
				LIMIT OF DEMOLITION
				FLEXIBLE CONNECTION, EQUIPMENT, VIBRATION, OR SEISMIC
				VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
				VANED ELBOW (SHORT RADIUS)
				STANDARD RADIUS ELBOW (LONG RADIUS)
				NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
				EXISTING DUCT TO REMAIN
				EXISTING DUCT TO BE REMOVED
				EXISTING DIFFUSER TO BE REMOVED
				FLEXIBLE DUCTWORK (INSULATED)
				DUCT WITH SOUND LINING
				MANUAL VOLUME DAMPER
				FIRE DAMPER
				COMBINATION FIRE/SMOKE DAMPER
				MANUAL SPLITTER DAMPER
				STANDARD BRANCH SUPPLY OR RETURN, NO SPLITTER (45° TAP)

GENERAL SYMBOLS

	DIRECTION OF PIPE PITCH (DOWN)
	DIRECTION OF FLOW
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	LIMIT OF DEMOLITION
	THERMOMETER
	PRESSURE GAGE
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	STRAINER
	TEMPERATURE SENSOR

VALVE SYMBOLS

	GLOBE VALVE - THREADED/FLANGED
	CHECK VALVE
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	FLEXIBLE CONNECTION
	ANGLE GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING CONTROL VALVE
	BALANCING VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY VALVE
	CIRCUIT SETTER VALVE
	GATE VALVE WITH GLOBE-VALVED BYPASS
	STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	TEST PLUG (PRESSURE/TEMPERATURE)
	WATER HAMMER ARRESTOR

HVAC DESIGN DATA					
OUTDOOR DESIGN TEMPERATURES	<div> <div>88.4 °F Db SUMMER</div> <div>72.8 °F Wb SUMMER</div> <div>-2.7 °F Db WINTER</div> </div>	DESIGN ALTITUDE: 407			
INDOOR AREA DESIGN CONDITIONS	SUMMER		WINTER		
	Db °F	% HUMIDITY	Db °F	% HUMIDITY	
OFFICE	72-78	30-50	68-73	30-50	
CONFERENCE	72-78	30-50	68-73	30-50	

