

MECHANICAL SYMBOLS

	SIDEWALL SUPPLY DIFFUSER WITH DESIGNATION TYPE		LOW VELOCITY SUPPLY DUCT		SIZE OF FLAT OVAL DUCT		PRESSURE REDUCING VALVE
	SUPPLY DIFFUSER w/BLANK OFF AND DESIGNATION TYPE		LOW VELOCITY RETURN DUCT		MEDIUM VELOCITY COLD DUCT		2-WAY CONTROL VALVE
	EXHAUST GRILLE WITH DESIGNATION OR CFM		LOW VELOCITY EXHAUST DUCT		MEDIUM VELOCITY HOT DUCT		3-WAY CONTROL VALVE
	RETURN GRILLE WITH DESIGNATION OR CFM		MEDIUM VELOCITY COLD DUCT		OUTSIDE AIR		SOLENOID VALVE
	GRILLE FACE WITH DESIGNATION TYPE		MEDIUM VELOCITY HOT DUCT		SIZE OF RECTANGULAR DUCT		PRESSURE GAUGE WITH COCK
	FLEXIBLE DUCTWORK		FIRE DAMPER		SIZE OF ROUND DUCT		THERMOMETER
	RISE OR DROP IN DUCTWORK (SUPPLY)		SMOKE DAMPER		CONDENSER WATER SUPPLY PIPING		THERMOMETER WELL
	RISE OR DROP IN DUCTWORK (RETURN OR EXHAUST)		COMBINATION FIRE/SMOKE DAMPER		CONDENSER WATER RETURN PIPING		PIPE EXPANSION JOINT
	90° DUCT ELBOW WITH TURNING VANES		CONSTANT VOLUME BOX w/ CFM		CHILLED WATER SUPPLY PIPING		PIPE REDUCER
	TEE WITH TURNING VANES		VOLUME BOX		CHILLED WATER RETURN PIPING		UNION
	MANUAL BALANCING DAMPER		VARIABLE AIR VOLUME BOX		HEATING HOT WATER SUPPLY PIPING		CAPPED PIPE
	VOLUME DAMPER ON DUCT		FAN POWER BOX		HEATING HOT WATER RETURN PIPING		RISE IN PIPING
	MANUAL VOLUME DAMPER		ROOF MOUNTED EXHAUST FAN		REFRIGERANT PIPING (LIQUID)		DROP IN PIPING
	EXISTING DIFFUSER, EXH OR RIN GRILLE		HORIZONTAL UNIT HEATER		REFRIGERANT PIPING (SUCTION)		DIRECTION OF FLOW
	FLEXIBLE DUCTWORK		VERTICAL UNIT HEATER		REFRIGERANT PIPING (HOT GAS)		PIPE ANCHOR
	RISE OR DROP IN DUCTWORK (SUPPLY)		DUCT MOUNTED HEAT COIL		CONDENSATE DRAIN PIPING		PIPE GUIDE
	RISE OR DROP IN DUCTWORK (RETURN OR EXHAUST)		AIR DOOR		NATURAL GAS		COIL DRAIN PAN TRAP
	90° DUCT ELBOW WITH TURNING VANES		SUPPLY AIR VALVE		HIGH PRESSURE STEAM SUPPLY PIPING		EXISTING PIPING
	TEE WITH TURNING VANES		EXHAUST AIR VALVE		HIGH PRESSURE STEAM RETURN PIPING		EXISTING PIPING
	MANUAL BALANCING DAMPER		EQUIPMENT CONNECTION		MEDIUM PRESSURE STEAM SUPPLY PIPING		MECHANICAL NOTE
	VOLUME DAMPER ON DUCT		FLEXIBLE PIPE CONNECTION		MEDIUM PRESSURE STEAM RETURN PIPING		ELECTRICAL NOTE
	MANUAL VOLUME DAMPER		EQUIPMENT TYPE DESIGNATION		LOW PRESSURE STEAM SUPPLY PIPING		PLUMBING NOTE
	EXISTING DUCTWORK		NEW THERMOSTAT		LOW PRESSURE STEAM RETURN PIPING		FIRE PROTECTION NOTE
	EXISTING TO BE REMOVED		EXISTING THERMOSTAT		PUMPED CONDENSATE PIPING		REVISION NUMBER
	EXISTING TO REMAIN				BUCKET STEAM TRAP		POINT OF NEW CONNECTION
					FLOAT & THERMOSTATIC STEAM TRAP		
					SAFETY/PRESSURE RELIEF VALVE		
					VACUUM BREAKER		
					MANUAL AIR VENT		
					FLOW MEASURING STATION		
					ISOLATION VALVE OR SHUT-OFF VALVE		
					GLOBE VALVE		
					BALANCING VALVE		
					BUTTERFLY VALVE		
					CHECK VALVE		
					STRAINER		
					DRAIN VALVE WITH MALE HOSE CONNECTION		

KEMSTUDIO
1515 GENESSEE ST SUITE 11 KANSAS CITY MO 64102
816 756 1808 f 816 756 1828

kemstudio.com

ELEC
engineering
MECH

S & S ENGINEERING, INC.
10551 Berkley, Suite 601
Overland Park, Kansas 66212
Ph: 913-754-3673
F: 913-754-3674
E-mail: corporate@ss-engr.com
Web: www.ss-engr.com

PORT KC OFFICES

1000 BERKLEY PARKWAY - SPACE E177
KANSAS CITY, MO 64108

PROJECT NUMBER: A1718

SEAL



ISSUED FOR: DATE:
95% CDS 12/22/2017
Permit Set 01/12/2018

**MECHANICAL
SYMBOLS**

M001