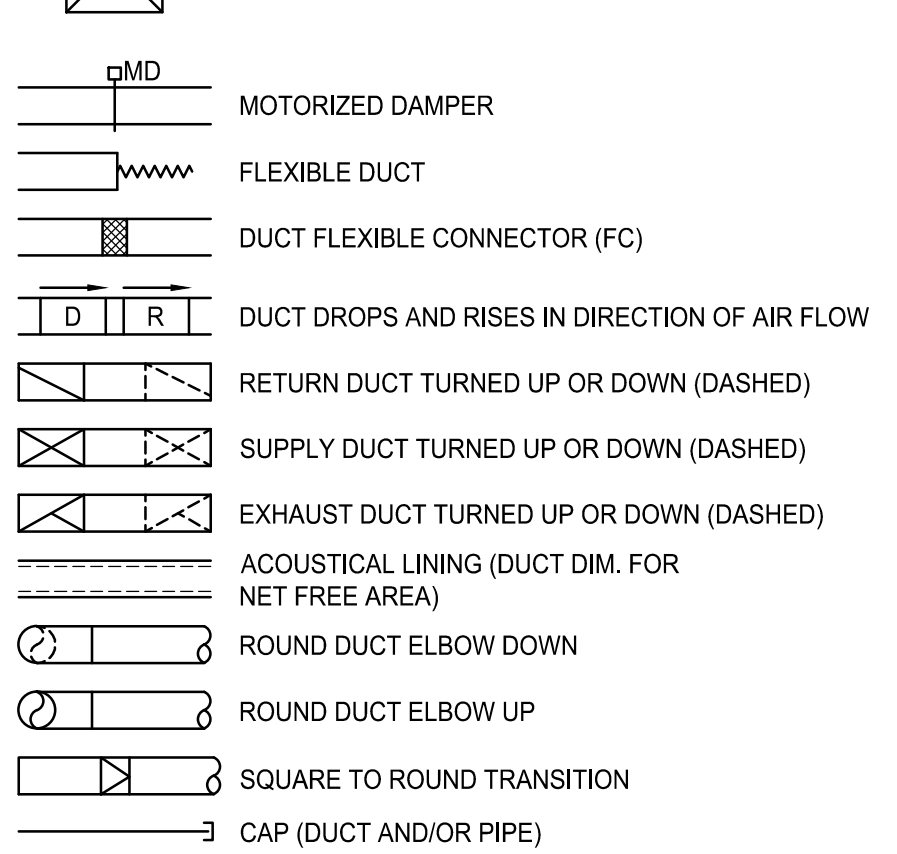


12x16 RECTANGULAR DUCT. (FIRST NUMBER IS SIDE SHOWN)
DIMENSIONS IN INCHES


12"Ø 12 INCH ROUND DUCT


SHADE INDICATES NO AIR DISTRIBUTION IN THIS DIRECTION


CEILING DIFFUSER (3-WAY SHOWN)





— EA ————— EXHAUST AIR
 — RA ————— RETURN AIR
 — SA ————— SUPPLY AIR



 VOLUME DAMPER



 FIRE DAMPER

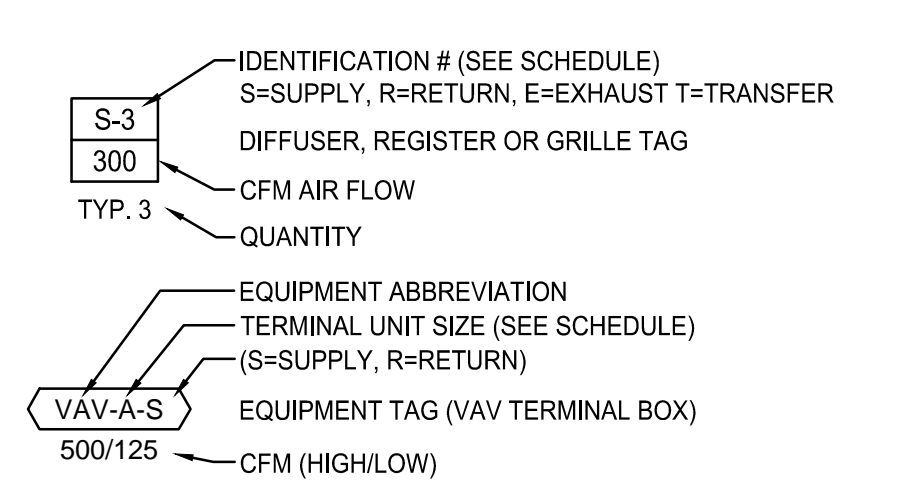

 SMOKE DAMPER


 COMBINATION SMOKE/FIRE DAMPER


 RECTANGULAR ELBOW WITH TURNING VANES


 DIRECTION OF AIR FLOW (IN)


 DIRECTION OF AIR FLOW (OUT)



— CD —	CONDENSATE DRAIN	— HPWR —	HEAT PUMP WATER RETURN	— R —	RELIEF LINE
— CHWS —	CHILLED WATER SUPPLY	— HPWS —	HEAT PUMP WATER SUPPLY	— RL —	REFRIGERANT LIQUID
— CHWR —	CHILLED WATER RETURN	— HG —	HOT GAS	— RS —	REFRIGERANT SUCTION
— CWS —	CONDENSER WATER SUPPLY	— HPS —	HIGH PRESSURE STEAM	— TWS —	TEMPERED CHILLED WATER SUPPLY
— CWR —	CONDENSER WATER RETURN	— HPR —	HIGH PRESSURE CONDENSATE RETURN	— TWR —	TEMPERED CHILLED WATER RETURN
— DB —	DISTRIBUTION VALVE BOX	— HWS —	HOT WATER SUPPLY	— ZB —	ZONE VALVE BOX
— FCS —	FREE COOLING SUPPLY	— HWR —	HOT WATER RETURN	— PD —	PUMPED DISCHARGE
— FCR —	FREE COOLING RETURN	— LPS —	LOW PRESSURE STEAM	— PW —	POTABLE WATER
— FOS —	FUEL OIL SUPPLY	— LPR —	LOW PRESSURE RETURN		
— FOR —	FUEL OIL RETURN	— MPS —	MEDIUM PRESSURE STEAM		
— FOV —	FUEL OIL VENT	— MPR —	MEDIUM PRESSURE RETURN		
— GCR —	GRAVITY STEAM CONDENSATE RETURN	— NPW —	NON POTABLE COLD WATER		
— GLY —	GLYCOL	— PCWS —	PROCESS COOLING WATER SUPPLY		
— HCR —	HOT/ CHILLED WATER RETURN	— POWR —	PROCESS COOLING WATER RETURN		
— HCS —	HOT/ CHILLED WATER SUPPLY	— PC —	PUMPED STEAM CONDENSATE		

	UNION
	FLANGE
	PIPE ANCHOR
	PIPE GUIDE OR SLEEVES
	PIPE ELBOW TURNED DOWN
	PIPE ELBOW TURNED UP
	PIPING TEE-DOWN
	PIPING TEE-UP
	PIPE RISER
	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
	PIPE ELBOW-DOWN WITH VALVE
	STRAINER
	STRAINER W/BLOWDOWN
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	PRESSURE SWITCH
	FLOW SWITCH
	PRESSURE GAUGE AND COCK
	THERMOMETER AND WELL
	TEMPERATURE & PRESSURE TAP (PETE'S)
	HOSE END DRAIN VALVE WITH CAP
	ORIFICE FLOWMETER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION JOINT
	STEAM TRAP (FLOAT AND THERMOSTATIC)
	INDICATED T.T. THERMOSTAT, B.T. BUCKET TRAP, T.D. THERMODYNAMIC TRAP
	CONCENTRIC REDUCER/INCREASER
	ECCENTRIC REDUCER/INCREASER
	DIRECTION OF FLOW
	PUMP
	FINNED TUBE BASEBOARD
	FINNED TUBE TAG
	LENGTH OF FINNED ELEMENT
	FLOW (GPM)
	EQUIPMENT ABBREVIATION TERMINAL UNIT SIZE (SEE SCHEDULE) (S=SUPPLY, R=RETURN)
	EQUIPMENT TAG (VAV TERMINAL BOX)
	GPM FLOW

INDICATES DUCT, PIPING,
EQUIPMENT TO BE REMOVED.

LIMITS OF DEMOLITION

CONNECT TO EXISTING

EQUIPMENT ABBREVIATION (EF=EXHAUST FAN,
EQUIPMENT NO.

EQUIPMENT TAG

DETAIL NO.
SHEET NO. WHERE DETAIL IS LOCATED

HUMIDIFIER

DIFFERENTIAL PRESSURE TRANSMITTER

CARBON MONOXIDE SENSOR

CARBON DIOXIDE SENSOR

HUMIDISTAT OR HUMIDITY SENSOR

SMOKE DETECTOR

STATIC PRESSURE SENSOR

THERMOSTAT (TSTAT) OR TEMP. SENSOR

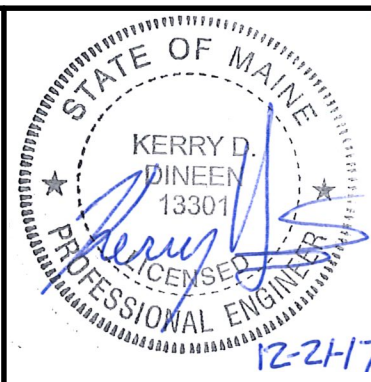
AAV	AUTOMATIC AIR VENT	ENC	ENCLOSURE	PSE	PROCESS SOLVENT EXHAUST
ACC	AIR COOLED CONDENSER	ER	EXHAUST REGISTER	PP	POLY-PROPYLENE
ACU	AIR CONDITIONING UNIT	(E)	EXISTING	PPE	PRE PURCHASED EQUIPMENT
ACV	AUTOMATIC CONTROL VALVE	EXIST.	EXISTING	PRS	PRESSURE REDUCING STATION
AD	ACCESS DOOR	FBO	FURNISHED BY OWNER	PRV	PRESSURE REDUCING VALVE
AE	ACID EXHAUST	FBP	FACE AND BYPASS	PVD	PNEUMATIC VOLUME DAMPER
AFF	ABOVE FINISHED FLOOR	FC	FLEXIBLE CONNECTION	(R)	REMOVE
AFMS	AIR FLOW MEASURING STATION	FD	FIRE DAMPER	RA	RETURN AIR
AHU	AIR HANDLING UNIT	FG	FIBERGLASS	(REL.)	RELOCATED
ATC	AUTOMATIC TEMPERATURE CONTROL	F & T	FLOAT AND THERMOSTATIC	RF	RETURN FAN
AV	AIR VENT	FO	FLAT O'VAL	RG	RETURN GRILLE
BB	BASEBOARD	FTR	FINNED TUBE RADIATION	RHC	REHEAT COIL
BDD	BACKDRAFT DAMPER	FS	FLOW SWITCH	RM	ROOM
BG	BLAST GATE	GC	GENERAL CONTRACTOR	RR	RETURN REGISTER
BLDG	BUILDING	GPM	GALLONS PER MINUTE	RV	RELIEF VALVE
BOD	BOTTOM OF DUCT	H	HUMIDIFIER	SA	SUPPLY AIR
BOP	BOTTOM OF PIPE	HB	HOSE BIB	SCV	SELF CONTAINED VALVE
BTU	BRITISH THERMAL UNIT	HRU	HEAT RECOVERY UNIT	SD	SMOKE DETECTOR
CBD	COUNTER BALANCED DAMPER	HTR	HEATER	SF	SUPPLY FAN
CD	CEILING DIFFUSER	H & V	HEATING AND VENTILATION	SG	SUPPLY GRILLE
CFF	CAPPED FOR FUTURE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	SR	SUPPLY REGISTER
CFM	CUBIC FEET PER MINUTE	HW	HOT WATER	SS	STAINLESS STEEL
CLG	CEILING	HX	HEAT EXCHANGER	TE	TEMPERATURIZED ELEMENT (SENSOR)
CONT	CONTINUATION	IN WG	INCHES WATER GAUGE	TG	TRANSFER GRILLE
COORD	COORDINATE	LD	LINED DUCT	TOD	TOP OF DUCT
CP	CONDENSATE PUMP & RECEIVER	MAU	MAKE UP AIR UNIT	TOP	TOP OF PIPE
CT	COOLING TOWER	MAX	MAXIMUM	TTS	TIGHT TO STEEL
CTE	CONNECT TO EXISTING	MBH	1000 BTU/HR.	TV	TURNING VANE(S)
CU	COPPER	ME	MECHANICAL ENGINEER	TYP	TYPICAL
CUH	CABINET UNIT HEATER	MFR	MANUFACTURER	UH	UNIT HEATER
CV	CONTROL VALVE	MIN	MINIMUM	UIC	UP IN CHASE
CW	COLD WATER	MD	MOTOR OPERATED DAMPER	UW	UP IN WALL
DC	DOUBLE CONTAINED	MPV	MULTI-PURPOSE VALVE	UV	UNIT VENTILATOR
DDC	DIRECT DIGITAL CONTROL	MTD	MOUNTED	VAV	VARIABLE AIR VOLUME BOX
DIA	DIAMETER	MUA	MAKE UP AIR	VB	VACUUM BREAKER
DIC	DOWN IN CHASE	NPW	NON-POTABLE WATER	VTR	VENT THRU ROOF
DNW	DOWN IN WALL	NTS	NOT TO SCALE	VD	MANUAL VOLUME DAMPER
DN	DOWN	OA	OUTSIDE AIR	VCF	VALVED AND CAPPED FOR FUTURE
DT	DROP AND TRANSITION	OBD	OPPOSED BLADE DAMPER	VGF	VARIABLE FREQUENCY DRIVE
DWG	DRAWING	OED	OPEN ENDED DUCT	VOC	VOLATILE ORGANIC COMPOUNDS
DWH	DOMESTIC WATER HEATER	PAE	PROCESS ACID EXHAUST	W/	WITH
EA	EXHAUST AIR	PHE	PROCESS HEAT EXHAUST		
EF	EXHAUST FAN				

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

0	ISSUED FOR CONSTRUCTION	12-21-17
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REV	DESCRIPTION	DATE
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M.M.C. HUTCHINS DRIVE
RENOVATION
102 HUTCHINS DRIVE PORTLAND, ME

MECHANICAL LEGEND AND ABBREVIATIONS

SHEET TITLE: _____

0 1/4" 1/2" 1" 2" 3"

SCALE: AS NOTED

PROJECT MANAGER: RSC		PROJECT NO: 17123	
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A/E OF RECORD:	KDD
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JOB CAPTAIN:	SDL
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DRAWN BY:	CWF	MI-001
DATE FILED	11-22-2005	ENTERED

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