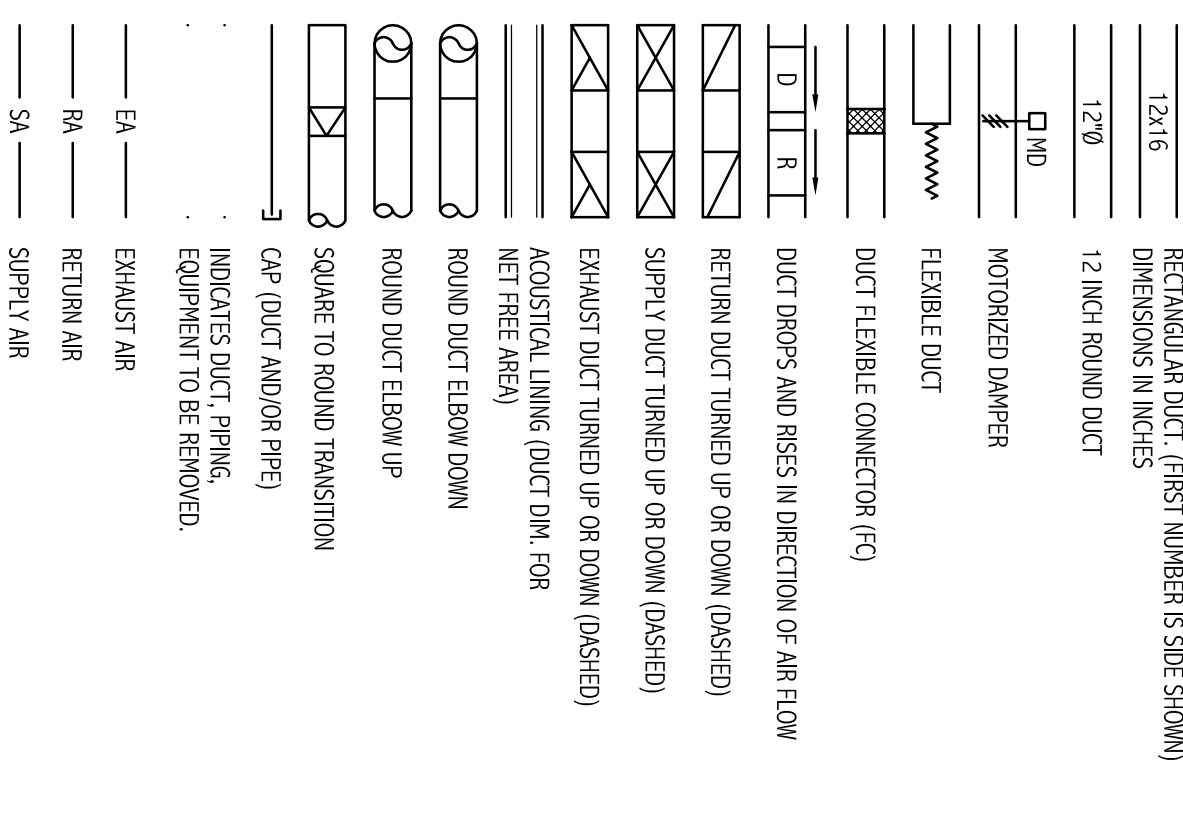
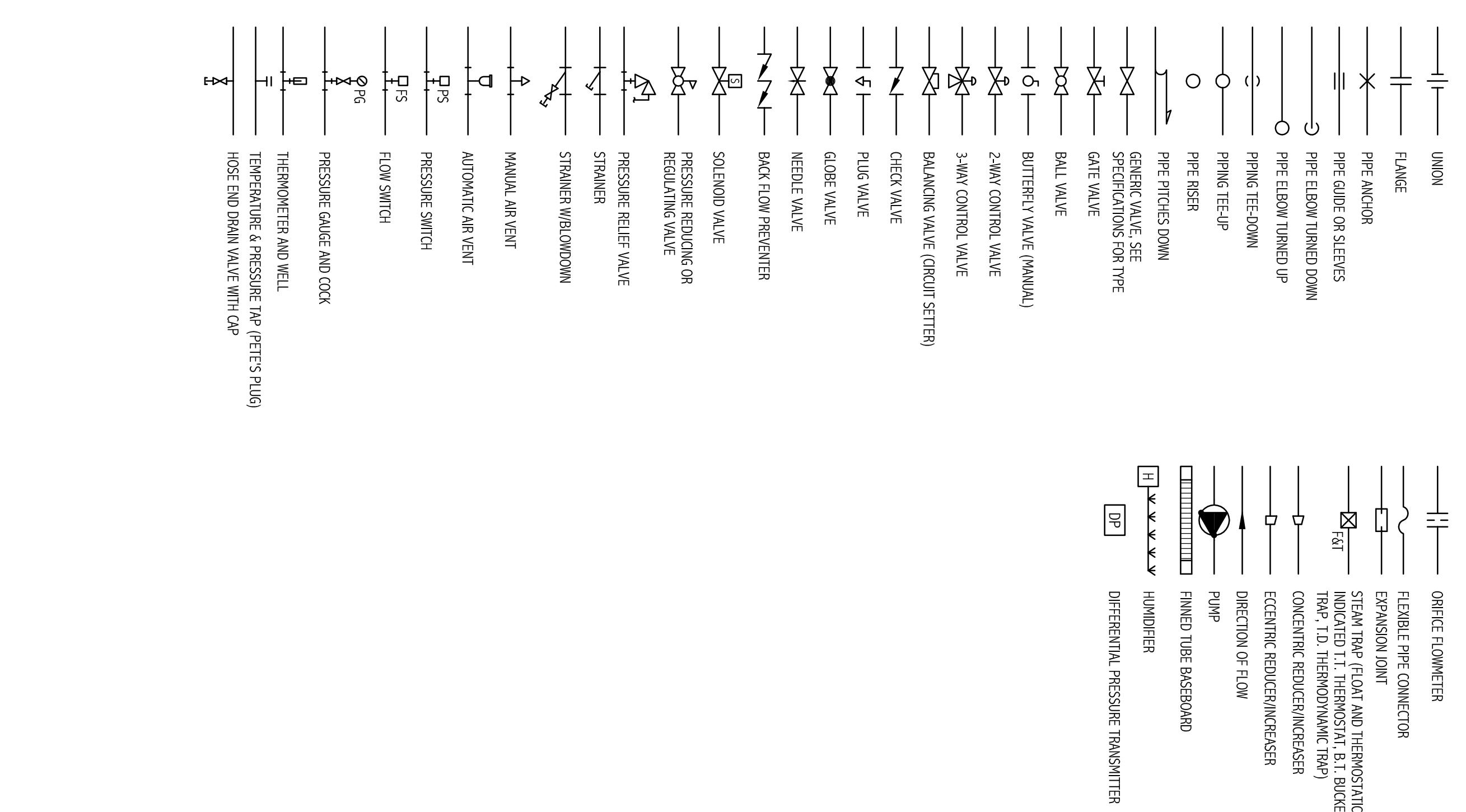


AIR DISTRIBUTION SYMBOLS



PIPING SYMBOLS



PIPING SYSTEMS

CD	CONDENSATE DRAIN	H6	HOT GAS	RL	REFRIGERANT LIQUID
CHWS	CHILLED WATER SUPPLY	HPS	HIGH PRESSURE STEAM	RS	REFRIGERANT SUCTION
CHWR	CHILLED WATER RETURN	HPR	HIGH PRESSURE CONDENSATE RETURN	TNS	TEMPERED CHILLED WATER SUPPLY
CWS	CONDENSER WATER SUPPLY	HMS	HOT WATER SUPPLY	TNR	TEMPERED CHILLED WATER RETURN
CWR	CONDENSER WATER RETURN	HMR	HOT WATER RETURN	ZB	ZONE VALVE BOX
DB	DISTRIBUTION VALVE BOX	LPS	LOW PRESSURE STEAM		
FC	FREE COOLING SUPPLY	LPR	LOW PRESSURE RETURN		
FCR	FREE COOLING RETURN	MPS	MEDIUM PRESSURE STEAM		
FOS	FUEL OIL SUPPLY	MPR	MEDIUM PRESSURE RETURN		
FOR	FUEL OIL RETURN	NPW	NON POTABLE COLD WATER		
FOV	FUEL OIL VENT	PCR	PROCESS COOLING WATER RETURN		
GCR	GRANIT STEAM CONDENSATE RETURN	PC	PUMPED STEAM CONDENSATE		
GLY	GLYCOL	PD	PUMPED DISCHARGE		
HCR	HOT CHILLED WATER RETURN	PW	POTABLE WATER		
HCS	HOT CHILLED WATER SUPPLY	R	RELIEF LINE		

ABBREVIATIONS

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
AD	ACCESS DOOR	EXIST.	EXISTING	PNS	PRESSURE REDUCING STATION
AE	ACID EXHAUST	FBO	FURNISHED BY OWNER	PRV	PRESSURE REDUCING VALVE
AF	ABOVE FINISHED FLOOR	BPP	FACE AND BRASS	PVD	PNEUMATIC VOLUME DAMPER
AFNS	AIR FLOW MEASURING STATION	FC	FLEXIBLE CONNECTION	(R)	REMOVE
AHU	AIR HANDLING UNIT	FD	FIRE DAMPER	RA	RETURN AIR
ATC	AUTOMATIC TEMPERATURE CONTROL	FG	FIREGLASS	(REL.)	RELOCATED
AV	AIR VENT	F & T	FLOAT AND THERMOSTATIC	RF	RETURN FAN
BB	BASEBOARD	FO	FLAT OVAL	R6	RETURN GRILLE
BDD	BACKDRIFT DAMPER	FTR	FINNED TUBE RADIATION	RHC	REFLECT COIL
BG	BLAST GATE	FS	FLOW SWITCH	RM	ROOM
BLDG	BUILDING	GC	GENERAL CONTRACTOR	RR	RETURN REGISTER
BOD	BOTTOM OF DUCT	GPM	GALLONS PER MINUTE	RV	RELIEF VALVE
BOP	BOTTOM OF PIPE	H	HUMIDIFIER	SA	SUPPLY AIR
BTU	BRITISH THERMAL UNIT	HB	HOSE BIB	SCV	SELF-CONTAINED VALVE
CBU	COUNTER BALANCED DAMPER	HBU	HEAT RECOVERY UNIT	SD	SMOKE DETECTOR
CD	CEILING DIFFUSER	HTR	HEATER	SF	SUPPLY FAN
CF	CAPPED FOR FUTURE	H & V	HEATING AND VENTILATION	SG	SUPPLY GRILLE
CFM	CUBIC FEET PER MINUTE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	SR	SUPPLY REGISTER
CLG	CEILING	HW	HOT WATER	SS	STAINLESS STEEL
CONT	CONTINUATION	HX	HEAT EXCHANGER	TE	TEMPERATURIZED ELEMENT (SENSOR)
COORD	COORDINATE	IN WG	INCHES WATER GAUGE	TG	TRANSFER GRILLE
CP	CONDENSATE PUMP & REGENER	LD	LINKED DUCT	TDD	TOP OF DUCT
CT	COOLING TOWER	MU	MAKE UP AIR UNIT	TOP	TOP OF PIPE
CTE	CONNECT TO EXISTING	MAX	MAXIMUM	TTS	TIGHT TO STEEL
CU	COPPER	MHR	1000 BTU/HR.	TV	TURNING VANES(S)
CUH	CABINET UNIT HEATER	ME	MECHANICAL ENGINEER	TYP	TYPICAL
CV	CONTROL VALVE	MFR	MANUFACTURER	UH	UNIT HEATER
CW	COLD WATER	MIN	MINIMUM	UC	UP IN CHASE
DC	DOUBLE CONTAINED	ND	MOTOR OPERATED DAMPER	UW	UP IN WALL
DDC	DIRECT DIGITAL CONTROL	NPV	MULTI-PURPOSE VALVE	UV	UNIT VENTILATOR
DIA	DIAMETER	NTD	NOT DEDICATED	VW	VARIABLE AIR VOLUME BOX
DIC	DOWN IN CHASE	NMA	NON-POTABLE WATER	VB	VACUUM BREAKER
DIW	DOWN IN WALL	NPW	NON-POTABLE WATER	VTR	VENT THRU ROOF
DN	DOWN	NTS	NOT TO SCALE	VD	MANUAL VOLUME DAMPER
DT	DROP AND TRANSITION	OA	OUTSIDE AIR	VCF	VALVED AND CAPPED FOR FUTURE
DWG	DRAWING	OBDD	OPPOSED BLADE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
DMH	DOMESTIC WATER HEATER	OD	OPEN ENDED DUCT	VOC	VOLATILE ORGANIC COMPOUNDS
EA	EXHAUST AIR	PAE	PROCESS AND EXHAUST	W	WITH
EF	EXHAUST FAN	PHE	PROCESS HEAT EXHAUST		

GENERAL NOTE

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.

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