



PIPING SYSTEMS

——10:1 HF—— 10:1 HF	HCR HOT/ CHILLED WATER RETURN	——PCWR—— PROCESS COOLING WATER RETURN
AV ACID VENT		—— PC —— PUMPED STEAM CONDENSATE
AD ACID DRAIN		PD PUMPED DISCHARGE
AD ACID DRAIN (BELOW SLAB)	——HG —— HOT GAS	-POS. SOLV POSITIVE SOLVENT DRAIN
BA BREATHING AIR		PW POTABLE WATER
CD CONDENSATE DRAIN	HPR HIGH PRESSURE CONDENSATE RETURN	R RELIEF LINE
	HWR HOT WATER RETURN	
——CHWR—— CHILLED WATER RETURN	IAD ISOPROPYL ALCOHOL DRAIN	——— S——— SANITARY
	LP LIQUID PROPANE GAS	s SANITARY (UNDER SLAB)
CWR CONDENSER WATER RETURN		SD STORM DRAIN
		SD STORM DRAIN (UNDER SLAB)
DIS DEIONIZED WATER SUPPLY	LPR LOW PRESSURE RETURN	SLD MIXED SOLVENT DRAIN
DIR DEIONIZED WATER RETURN	MA MEDICAL AIR	SV SOLVENT
EKCD EKC DRAIN		SP SPRINKLER
ESEW EYEWASH	MPR MEDIUM PRESSURE RETURN	TWS TEMPERED CHILLED WATER SUPPLY
FCS FREE COOLING SUPPLY	MV MEDICAL VACUUM	TWR TEMPERED CHILLED WATER RETURN
		V VENT
FOS FUEL OIL SUPPLY	N2 PROCESS NITROGEN	VAC PLANT VACUUM
FOR FUEL OIL RETURN	NG NATURAL GAS	——ZB—— ZONE VALVE BOX
FOV FUEL OIL VENT		
GCR GRAVITY STEAM CONDENSATE RETURN	NO NITROUS OXIDE	TEMP DOMESTIC HOT WATER (TEMP 'F)
	-NEG. SOLV NEGATIVE SOLVENT DRAIN	
GV GAS VENT		——————————————————————————————————————
H HYDROGEN	OX OXYGEN	—— HW —— DOMESTIC HOT WATER

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	EA	EXHAUST AIR	PAE	PROCESS ACID EXHAUST
ACC	AIR COOLED CONDENSER	EF	EXHAUST FAN	PHE	PROCESS HEAT EXHAUST
ACU	AIR CONDITIONING UNIT	ENC	ENCLOSURE	PSE	PROCESS SOLVENT EXHAUST
AD	ACCESS DOOR	ER	EXHAUST REGISTER	PP	POLY-PROPYLENE
ΑE	ACID EXHAUST	(E)	EXISTING	PPE	PRE PURCHASED EQUIPMENT
4FF	ABOVE FINISHED FLOOR	EXIST.	EXISTING	PRS	PRESSURE REDUCING STATION
AHU	AIR HANDLING UNIT	FBO	FURNISHED BY OWNER	PRV	PRESSURE REDUCING VALVE
AP	ACCESS PANEL	FBP	FACE AND BYPASS	PVD	PNEUMATIC VOLUME DAMPER
ATC	AUTOMATIC TEMPERATURE CONTROL	FC	FLEXIBLE CONNECTION	(R)	REMOVE
AV	AIR VENT	FCO	FLOOR CLEANOUT	RA	RETURN AIR
BA	BREATHING COMPRESSED AIR	FD-#	FLOOR DRAIN TAG	(REL.)	RELOCATED
ВВ	BASEBOARD	FD	FIRE DAMPER	RF	RETURN FAN
BDD	BACKDRAFT DAMPER	FG	FIBERGLASS	RG	RETURN GRILLE
BG	BLAST GATE	F & T	FLOAT AND THERMOSTATIC	RHC	REHEAT COIL
BFP	BACKFLOW PREVENTER	FRHB	FREEZE RESISTANT HOSE BIBB	RM	ROOM
LDG	BUILDING	FTR	FINNED TUBE RADIATION	RPZ	REDUCED PRESSURE ZONE BFP
BOD	BOTTOM OF DUCT	FS	FLOW SWITCH	RR	RETURN REGISTER
80P	BOTTOM OF PIPE	GC	GENERAL CONTRACTOR	RV	RELIEF VALVE
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE	SA	SUPPLY AIR
BD	COUNTER BALANCED DAMPER	Н	HUMIDIFIER	SCV	SELF CONTAINED VALVE
CD	CEILING DIFFUSER	НВ	HOSE BIB	SD	SMOKE DETECTOR
CFF	CAPPED FOR FUTURE	HRU	HEAT RECOVERY UNIT	SF	SUPPLY FAN
CFM	CUBIC FEET PER MINUTE	HTR	HEATER	SG	SUPPLY GRILLE
CLG	CEILING	H & V	HEATING AND VENTILATION	SR	SUPPLY REGISTER
СО	CLEANOUT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	TE	TEMPERATURIZED ELEMENT (SENSO
ONT	CONTINUATION	HW	HOT WATER	TG	TRANSFER GRILLE
ORD	COORDINATE	НХ	HEAT EXCHANGER	TOD	TOP OF DUCT
СТ	COOLING TOWER	IN WG	INCHES WATER GAUGE	TOP	TOP OF PIPE
CTE	CONNECT TO EXISTING	LD	LINED DUCT	TTS	TIGHT TO STEEL
CU	COPPER	MAU	MAKE UP AIR UNIT	TV	TURNING VANE(S)
UH	CABINET UNIT HEATER	MAX	MAXIMUM	TYP	TYPICAL
CV	CONTROL VALVE	MBH	1000 BTU/HR.	UH	UNIT HEATER
CW	COLD WATER	ME	MECHANICAL ENGINEER	UIC	UP IN CHASE
W -P	CITY WATER-PROCESS	MFR	MANUFACTURER	UIW	UP IN WALL
DC	DOUBLE CONTAINED	MIN	MINIMUM	UV	UNIT VENTILATOR
DC	DIRECT DIGITAL CONTROL	MOD	MOTOR OPERATED DAMPER	VB	VACUUM BREAKER
OIA	DIAMETER	MPV	MULTI-PURPOSE VALVE	VTR	VENT THRU ROOF
OIC	DOWN IN CHASE	MUA	MAKE UP AIR	VD	MANUAL VOLUME DAMPER
NIC	DOWN IN WALL	NPW	NON-POTABLE WATER	VCFF	VALVED AND CAPPED FOR FUTURE
DN	DOWN	NTS	NOT TO SCALE	VOC	VOLATILE ORGANIC COMPOUNDS
DS	DOWNSPOUT	OA	OUTSIDE AIR	W/	WITH
DT	DROP AND TRANSITION	OBD	OPPOSED BLADE DAMPER	WCO	WALL CLEANOUT
)WG	DRAWING	OED	OPEN ENDED DUCT	WH	WALL HYDRANT
DWH	DOMESTIC WATER HEATER	P-#	PLUMBING FIXTURE TAG		
		" PEA	ALKALI EXHAUST		

PEH HEAT EXHAUST

ISSUED FOR CONSTRUCTION DESCRIPTION

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144 Fore Street/P.O. Box 618 tel. (207) 772-3846

fax. (207) 772-1070

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LEGEND & **ABBREVIATIONS**

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