

PIPING SYMBOLS

	UNION		ORIFICE FLOWMETER
	FLANGE		FLEXIBLE PIPE CONNECTOR
	PIPE ANCHOR		EXPANSION JOINT
	PIPE GUIDE OR SLEEVES		CONCENTRIC REDUCER/INCREASER
	PIPE ELBOW TURNED DOWN		ECCENTRIC REDUCER/INCREASER
	PIPE ELBOW TURNED UP		HOSE BIBB
	PIPING TEE-DOWN		WALL HYDRANT
	PIPING TEE-UP		DIRECTION OF FLOW
	PIPE RISER		FIRE DEPARTMENT CONNECTION
	FLOOR CLEAN OUT		PUMP
	CLEAN OUT		WATER HAMMER SUPPRESSER
	WALL CLEAN OUT		HUMIDIFIER
	PIPE PITCHES DOWN		DIFFERENTIAL PRESSURE TRANSMITTER
	GENERIC VALVE, SEE SPECIFICATIONS FOR TYPE		SPRINKLER HEAD
	GATE VALVE		GAS TURRET
	BALL VALVE		MEDICAL OXYGEN OUTLET
	BUTTERFLY VALVE (MANUAL)		MEDICAL VACUUM INLET
	2-WAY CONTROL VALVE		MEDICAL AIR OUTLET
	3-WAY CONTROL VALVE		NITROUS OXIDE OUTLET
	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		
	STRAINER		
	STRAINER W/BLOWDOWN		
	PRESSURE SWITCH		
	FLOW SWITCH		
	PRESSURE GAUGE AND COCK		
	THERMOMETER AND WELL		
	TEMPERATURE & PRESSURE TAP (PETE'S PLUG)		
	HOSE END DRAIN VALVE WITH CAP		

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	DWH	DOMESTIC WATER HEATER	PP	POLY-PROPYLENE
AD	ACCESS DOOR	ENC	ENCLOSURE	PPE	PRE PURCHASED EQUIPMENT
AFF	ABOVE FINISHED FLOOR	(E)	EXISTING	PRS	PRESSURE REDUCING STATION
AHU	AIR HANDLING UNIT	EXIST.	EXISTING	PRV	PRESSURE REDUCING VALVE
ATC	AUTOMATIC TEMPERATURE CONTROL	FBO	FURNISHED BY OWNER	(R)	REMOVE
ATV	ATMOSPHERIC VENT	FC	FLEXIBLE CONNECTION	(REL.)	RELOCATED
AV	AIR VENT	FCO	FLOOR CLEANOUT	RD	ROOF DRAIN
BA	BREATHING COMPRESSED AIR	FD-#	FLOOR DRAIN TAG	RHC	REHEAT COIL
BFP	BACKFLOW PREVENTER	FG	FIBERGLASS	RM	ROOM
BLDG	BUILDING	FRHB	FREEZE RESISTANT HOSE BIBB	RPZ	REDUCED PRESSURE ZONE BFP
BOD	BOTTOM OF DUCT	FS	FLOW SWITCH	RV	RELIEF VALVE
BOP	BOTTOM OF PIPE	GC	GENERAL CONTRACTOR	SCV	SELF CONTAINED VALVE
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE	SS	STAINLESS STEEL
CFF	CAPPED FOR FUTURE	H	HUMIDIFIER	TE	TEMPERATURIZED ELEMENT (SENSOR)
CFH	CUBIC FEET PER HOUR	HB	HOSE BIB	TOP	TOP OF PIPE
CLG	CEILING	HRU	HEAT RECOVERY UNIT	TTS	TIGHT TO STEEL
CO	CLEANOUT	HTR	HEATER	TYP	TYPICAL
CONT	CONTINUATION	H & V	HEATING AND VENTILATION	UIC	UP IN CHASE
COORD	COORDINATE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UIW	UP IN WALL
CT	COOLING TOWER	HW	HOT WATER	UV	UNIT VENTILATOR
CTE	CONNECT TO EXISTING	HX	HEAT EXCHANGER	VB	VACUUM BREAKER
CU	COPPER	IN WG	INCHES WATER GAUGE	VTR	VENT THRU ROOF
CV	CONTROL VALVE	MAU	MAKE UP AIR UNIT	VCF	VALVED AND CAPPED FOR FUTURE
CW	COLD WATER	MAX	MAXIMUM	VFD	VARIABLE FREQUENCY DRIVE
CW-P	CITY WATER-PROCESS	MBH	1000 BTU/HR.	VOC	VOLATILE ORGANIC COMPOUNDS
DC	DOUBLE CONTAINED	ME	MECHANICAL ENGINEER	W/	WITH
DDC	DIRECT DIGITAL CONTROL	MFR	MANUFACTURER	WCO	WALL CLEANOUT
DIA	DIAMETER	MIN	MINIMUM	WH	WALL HYDRANT
DIC	DOWN IN CHASE	MPV	MULTI-PURPOSE VALVE		
DIW	DOWN IN WALL	MTD	MOUNTED		
DN	DOWN	MUA	MAKE UP AIR		
DS	DOWNSPOUT	NPW	NON-POTABLE WATER		
DT	DROP AND TRANSITION	NTS	NOT TO SCALE		
DWG	DRAWING	P-#	PLUMBING FIXTURE TAG		

PIPING SYSTEMS

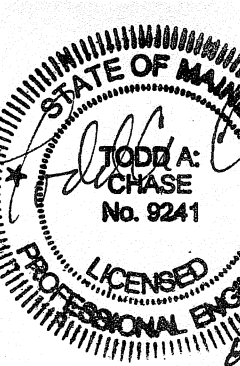
AV	ACID VENT	MV	MEDICAL VACUUM	TEMP	DOMESTIC HOT WATER (TEMP °F)
AD	ACID DRAIN	N2NP	NON-PROCESS NITROGEN	TEMP	RECIRC. DOMESTIC HOT WATER (TEMP °F)
AD	ACID DRAIN (BELOW SLAB)	N2	NITROGEN	CW	DOMESTIC COLD WATER
BA	BREATHING AIR	NG	NATURAL GAS	HW	DOMESTIC HOT WATER
CD	CONDENSATE DRAIN	HNG	HIGH PRESSURE NATURAL GAS	RHW	RECIRCULATED DOMESTIC HOT WATER
CDA	COMPRESSED DRY AIR	NO2	NITROUS OXIDE	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE
DB	DISTRIBUTION VALVE BOX	NEG. SOLV.	NEGATIVE SOLVENT DRAIN	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (EXIST.)
DIS	DEIONIZED WATER SUPPLY	NPW	NON POTABLE COLD WATER	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB)
DIR	DEIONIZED WATER RETURN	O2	OXYGEN	S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB-EXIST.)
EKCD	EKC DRAIN	OFA	OIL FREE COMPRESSED AIR	SD	SD STORM DRAIN
ESEW	EYEWASH	PD	PUMPED DISCHARGE	SD	SD STORM DRAIN (EXIST.)
GLY	GLYCOL	POS. SOLV.	POSITIVE SOLVENT DRAIN	SD	SD STORM DRAIN (BELOW SLAB)
GV	GAS VENT	PW	POTABLE WATER	SD	SD STORM DRAIN (BELOW SLAB-EXIST.)
H	HYDROGEN	R	RELIEF LINE	V	V SANITARY VENT
H2O2	HYDROGEN PEROXIDE	SLD	MIXED SOLVENT DRAIN	V	V SANITARY VENT (EXIST.)
HCV	HOUSE CLEAN VACUUM	SV	SOLVENT	V	V SANITARY VENT (BELOW SLAB)
IAD	ISOPROPYL ALCOHOL DRAIN	SP	SPRINKLER	V	V SANITARY VENT (BELOW SLAB-EXIST.)
LP	LIQUID PROPANE GAS	VAC	VACUUM		
HLP	HIGH PRESSURE LIQUID PROPANE GAS	ZB	ZONE VALVE BOX		
MA	MEDICAL AIR				

GENERAL NOTE

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