

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)		PIPE ELBOW TURNED DOWN - VALVE IN VERTICAL
	CHECK VALVE		PIPE ELBOW TURNED UP - VALVE IN VERTICAL
	PLUG VALVE		LIMITS OF DEMOLITION
	GLOBE VALVE		CONNECT TO EXISTING
	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	DWV	DRAINAGE, WASTE & VENT	PPE	PRE PURCHASED EQUIPMENT
AD	ACCESS DOOR	ENC	ENCLOSURE	PRS	PRESSURE REDUCING STATION
AFF	ABOVE FINISHED FLOOR	(E)	EXISTING	PRV	PRESSURE REDUCING VALVE
AHU	AIR HANDLING UNIT	EXIST.	EXISTING	(R)	REMOVE
ATC	AUTOMATIC TEMPERATURE CONTROL	FBO	FURNISHED BY OWNER	(REL.)	RELOCATED
AV	AIR VENT	FC	FLEXIBLE CONNECTION	RD	ROOF DRAIN
BA	BREATHING COMPRESSED AIR	FCO	FLOOR CLEANOUT	RHC	REHEAT COIL
BFP	BACKFLOW PREVENTER	FD-#	FLOOR DRAIN TAG	RM	ROOM
BLDG	BUILDING	FG	FIBERGLASS	RPZ	REDUCED PRESSURE ZONE BFP
BOD	BOTTOM OF DUCT	FRHB	FREEZE RESISTANT HOSE BIBB	RV	RELIEF VALVE
BOP	BOTTOM OF PIPE	FS	FLOW SWITCH	SCV	SELF CONTAINED VALVE
BTU	BRITISH THERMAL UNIT	GC	GENERAL CONTRACTOR	SS	STAINLESS STEEL
CFF	CAPPED FOR FUTURE	GPM	GALLONS PER MINUTE	TE	TEMPERATURIZED ELEMENT (SENSOR)
CFH	CUBIC FEET PER HOUR	H	HUMIDIFIER	TOP	TOP OF PIPE
CLG	CEILING	HB	HOSE BIB	TTS	TIGHT TO STEEL
CO	CLEANOUT	HRU	HEAT RECOVERY UNIT	TYP	TYPICAL
CONT	CONTINUATION	HTR	HEATER	UIC	UP IN CHASE
COORD	COORDINATE	H & V	HEATING AND VENTILATION	UIW	UP IN WALL
CT	COOLING TOWER	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UV	UNIT VENTILATOR
CTE	CONNECT TO EXISTING	HW	HOT WATER	VB	VACUUM BREAKER
CU	COPPER	HX	HEAT EXCHANGER	VTR	VENT THRU ROOF
CV	CONTROL VALVE	IN WG	INCHES WATER GAUGE	VCFF	VALVED AND CAPPED FOR FUTURE
CW	COLD WATER	MAU	MAKE UP AIR UNIT	VFD	VARIABLE FREQUENCY DRIVE
CW-P	CITY WATER-PROCESS	MAX	MAXIMUM	VOC	VOLATILE ORGANIC COMPOUNDS
DC	DOUBLE CONTAINED	MBH	1000 BTU/HR.	W/	WITH
DCO	DANDY CLEANOUT	ME	MECHANICAL ENGINEER	W&T	WASTE AND TRAP
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		
DWH	DOMESTIC WATER HEATER	PP	POLY-PROPYLENE		

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 —	SANITARY VENT
— H2O2 —	HYDROGEN PEROXIDE	— SLD —	MIXED SOLVENT DRAIN	— V —	SANITARY VENT (EXIST.)
— HCV —	HOUSE CLEAN VACUUM	— SV —	SOLVENT	— V —	SANITARY VENT (BELOW SLAB)
— IAD —	ISOPROPYL ALCOHOL DRAIN	— SP —	SPRINKLER	— 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
1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL 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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