

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		

PROCESS INSTRUMENTATION SYMBOLS

	PRESSURE REGULATING VALVE
	PRESSURE SUSTAINING VALVE
	PRESSURE REGULATING VALVE W/ INLET/OUTLET GAUGES
	ROTAMETER / FLOWMETER

PIPING SYSTEMS

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

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	DWV	DRAINAGE, WASTE & VENT	P	PUMP
ABD	ABANDON	EE	EMERGENCY EQUIPMENT	PET	THERMAL EXPANSION TANK
AC	AIR COMPRESSOR	ENC	ENCLOSURE	PP	POLY-PROPYLENE
AD	ACCESS DOOR	(E)	EXISTING	PPE	PRE PURCHASED EQUIPMENT
AFF	ABOVE FINISHED FLOOR	ESP	ELEVATOR SUMP PUMP	PRS	PRESSURE REDUCING STATION
AHU	AIR HANDLING UNIT	EXIST.	EXISTING	PRV	PRESSURE REDUCING VALVE
ATC	AUTOMATIC TEMPERATURE CONTROL	EWC	ELECTRIC WATER COOLER	(R)	REMOVE
AV	AIR VENT	FBO	FURNISHED BY OWNER	(REL.)	RELOCATED
BA	BREATHING COMPRESSED AIR	FC	FLEXIBLE CONNECTION	RD	ROOF DRAIN
BFP	BACKFLOW PREVENTER	FCO	FLOOR CLEANOUT	RHC	REHEAT COIL
BLDG	BUILDING	FD	FLOOR DRAIN	RM	ROOM
BOD	BOTTOM OF DUCT	FG	FIBERGLASS	RP	RECIRCULATING PUMP
BOP	BOTTOM OF PIPE	FRHB	FREEZE RESISTANT HOSE BIBB	RPZ	REDUCED PRESSURE ZONE BFP
BP	BOOSTER PUMP	FS	FLOOR SINK	RV	RELIEF VALVE
BT	BATHING TUB	GC	GENERAL CONTRACTOR	SCV	SELF CONTAINED VALVE
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE	SG	STEAM GENERATOR
CFF	CAPPED FOR FUTURE	GT	GREASE TRAP	SH	SHOWER
CFH	CUBIC FEET PER HOUR	H	HUMIDIFIER	SK	SINK
CLG	CEILING	HB	HOSE BIB	SP	SUMP PUMP
CO	CLEANOUT	HRU	HEAT RECOVERY UNIT	SS	STAINLESS STEEL
CONT	CONTINUATION	HTR	HEATER	ST	STORAGE TANK
COORD	COORDINATE	H & V	HEATING AND VENTILATION	T	TANK
CP	CONDENSATE PUMP	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	TD	TRENCH DRAIN
CSRO	CENTRAL STERILE PROCESS WATER	HW	HOT WATER	TE	TEMPERATURIZED ELEMENT (SENSOR)
CTE	CONNECT TO EXISTING	HX	HEAT EXCHANGER	TOP	TOP OF PIPE
CT	COOLING TOWER	INT	INTERCEPTOR	TTS	TIGHT TO STEEL
CU	COPPER	IN WG	INCHES WATER GAUGE	TYP	TYPICAL
CV	CONTROL VALVE	LAV	LAVATORY	UIC	UP IN CHASE
CW	COLD WATER	MAC	MEDICAL AIR COMPRESSOR	UIW	UP IN WALL
CW-P	CITY WATER-PROCESS	MAU	MAKE UP AIR UNIT	UR	URINAL
DC	DOUBLE CONTAINED	MAX	MAXIMUM	UV	UNIT VENTILATOR
DCO	DANDY CLEANOUT	MBH	1000 BTU/HR.	VB	VACUUM BREAKER
DDC	DIRECT DIGITAL CONTROL	ME	MECHANICAL ENGINEER	VTR	VENT THRU ROOF
DF	DRINKING FOUNTAIN	MFR	MANUFACTURER	VCFF	VALVED AND CAPPED FOR FUTURE
DIA	DIAMETER	MIN	MINIMUM	VFD	VARIABLE FREQUENCY DRIVE
DIC	DOWN IN CHASE	MPV	MULTI-PURPOSE VALVE	VOC	VOLATILE ORGANIC COMPOUNDS
DIRO	DIALYSIS PURIFIED WATER	MR	MOP RECEPTOR	W	WITH
DIW	DOWN IN WALL	MTD	MOUNTED	WB	WALL BOX
DN	DOWN	MUA	MAKE UP AIR	WC	WATER CLOSET
DS	DOWNSPOUT	MV	MIXING VALVE	WCO	WALL CLEANOUT
DT	DROP AND TRANSITION	MVP	MEDICAL VACUUM	W&T	WASTE AND TRAP
DWG	DRAWING	NPW	NON-POTABLE WATER	WH	WALL HYDRANT
DWH	DOMESTIC WATER HEATER	NTS	NOT TO SCALE	ZUB	ZONE VALVE BOX

GENERAL NOTE

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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SHEET TITLE
PLUMBING LEGEND ABBREVIATIONS

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