

PLUMBING SYMBOLS AND ABBREVIATIONS

NOTE: SYMBOLS AND ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

PIPE FITTINGS		PIPE VALVES AND SPECIALTIES	
	FLANGE		ELBOW DOWN
	UNION		ELBOW UP
	ANCHOR		TEE DOWN
	PIPE GUIDE		TEE UP
	PIPE SLEEVE		PIPE CAP
	ECCENTRIC REDUCER		SOIL, STORM, OR WASTE PLUG
	CONCENTRIC REDUCER		
PIPE VALVES AND SPECIALTIES			
	GAS SHUT OFF VALVE		PIPE FLEXIBLE CONNECTION
	GATE VALVE		EXPANSION JOINT
	DIAPHRAGM VALVE		FLOW SENSING DEVICE
	BALL VALVE		PRESSURE OR VACUUM SWITCH
	BUTTERFLY VALVE		HEAT TRACE TERMINATION POINT
	BALANCING VALVE		HEAT TRACE POWER CONNECTION POINT
	CHECK VALVE		THERMOMETER
	PRESSURE REDUCING VALVE		PRESSURE GAUGE (WITH VALVE)
	SOLENOID VALVE		WALL HYDRANT
	PRESSURE RELIEF VALVE		HOSE BIBB
	THERMOSTATIC MIXING VALVE		SLIDE-OXYGEN OR VACUUM BOTTLE
	TEMPERATURE BLENDING VALVE		GAS OUTLET
	BACKWATER VALVE		GAS TERMINAL
	REDUCED PRESSURE BACKFLOW PREVENTER		FILTER
	DOUBLE CHECK BACKFLOW PREVENTER		DIRECTION OF PITCH
	PIPELINE STRAINER		WATER METER
	WATER HAMMER ARRESTOR		DEMOLITION OF PIPING, DEVICE, ETC.
	ZONE VALVE BOX LABEL IS SHOWN ON FRONT OF VALVE BOX TO INDICATE ORIENTATION		
	AREA OR MASTER ALARM PANEL LABEL IS SHOWN ON FRONT OF PANEL TO INDICATE ORIENTATION		

DRAINS AND CLEANOUTS	
	FLOOR DRAIN/FLOOR SINK
	ROOF DRAIN
	HUB DRAIN
	FIXTURE WASTE TRAP
	CLEANOUT
	FLOOR CLEANOUT

FIXTURE INSTALLATION		
FIXTURE	BARRIER FREE DESIGN	NON-BARRIER FREE
WATER CLOSET	FLOOR TO RIM 17"	FLOOR TO RIM 17"
URINAL	FLOOR TO RIM 17" MIN. ONE PER ROOM	FLOOR TO RIM 17"
LAVATORY	FLOOR TO RIM 34" MAX. FLOOR TO UNDER APRON 22"	FLOOR TO RIM 34"
DRINKING FOUNTAIN	FLOOR TO SPOUT 36" MAX. FLOOR TO UNDER APRON 22"	FLOOR TO RIM 40"
SHOWER VALVE	FLOOR TO VALVE 42"	FLOOR TO VALVE 48"
SHOWER HEAD	FLOOR TO HEAD 60" ON HOSE ADJ. TO HEAD 78" VARIES	

PIPING SYSTEM LABELS		WASTE OR STORM	
	WATER		WASTE OR SOIL
	DCW - DOMESTIC COLD WATER		SAN - WASTE OR SOIL
	DHW - DOMESTIC HOT WATER		SD - SUBSOIL DRAIN
	DHR - DOMESTIC HOT WATER RETURN		S - STORM
	CS - COLD SOFT WATER		OD - OVERFLOW DRAIN
	HT - HEAT TRACE HOT WATER		FM - FORCE MAIN
	NP - NON-POTABLE WATER		CWV - CLEARWATER WASTE
	DI - DEIONIZED WATER		IW - INDIRECT WASTE
	RO - REVERSE OSMOSIS WATER		CW - GREASE WASTE
	PW - PURE WATER		CRW - CORROSION RESISTANT WASTE
	PCW - PROCESS COLD WATER		UNDERFLOOR FOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN
	PHW - PROCESS HOT WATER		
	PHR - PROCESS HOT WATER RETURN		
	LCW - LAB COLD WATER		
	LHW - LAB HOT WATER		
	LHR - LAB HOT WATER RETURN		
	TF - TRAP FILLER LINE		
	TW - TEMPERED WATER		
GASES		VENT	
	AR - ARGON		V - VENT
	CA - PROCESS COMPRESSED AIR		CWV - CLEARWATER VENT
	CO2 - CARBON DIOXIDE		CRV - CORROSION RESISTANT VENT
	H2 - HYDROGEN		LV - LAB VENT
	LA - LABORATORY COMPRESSED AIR		
	LN - LIQUID NITROGEN		
	LVAC - LABORATORY VACUUM		
	MA - MEDICAL COMPRESSED AIR		
	MV - MEDICAL VACUUM		
	NG - NATURAL GAS		
	N2 - NITROGEN		
	N2O - NITROUS OXIDE		
	O2 - OXYGEN		
	WAGD - WASTE ANESTHETIC GAS DISPOSAL		
	WGE - WASTE GAS EVACUATION		
CIVIL UTILITIES SYSTEMS		REFERENCE SYMBOLS	
	W - WATER LINE		GENERAL REFERENCE DESIGNATES SHEET NUMBER
	SAN - SANITARY SEWER		EQUIPMENT NAME AND NUMBER
	STM - STORM SEWER	# symbol"/>	SHEET KEYNOTE NUMBER
	FM - FORCE MAIN	X0.0 symbol"/>	REVISION NUMBER
	F - FIRE MAIN	#.0 symbol"/>	CONSTRUCTION BULLETIN NUMBER
	T - SHUTOFF VALVE	#.0.0 symbol"/>	ELEVATION SYMBOL
	FV - POST INDICATOR VALVE	#.0.0.0 symbol"/>	NEW CONNECTION TO EXISTING
	M - MANHOLE		
	C - CATCH BASIN OR INLET		
	N - CLEANOUT		

ABBREVIATIONS	
A	AREA
AAP	AREA ALARM PANEL
ACC	ACCESS
ACFM	ACTUAL CUBIC FEET PER MINUTE
ADB	ACID DILUTION BASIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AMPS	AMPERES
AP	ACCESS PANEL
AP	APPROXIMATE
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSY	ASSEMBLY
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE ELEVATION
BOT	BOTTOM
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BTWN	BETWEEN
CA	COMPRESSED AIR
CFM	CUBIC FEET PER MINUTE
CFM	CUBIC FEET PER MINUTE
CL	CELLING
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONN	CONNECTION / CONNECT
CONTR	CONTRACTOR
CORR	CORROSION RESISTANT
CS	COLD SOFT WATER
CT	CATCHER
CT	CATCHER
CV	CORROSION VENT THROUGH ROOF
CW	CLEARWATER WASTE
D	DEPTH / DRAIN LINE
DCW	DOMESTIC COLD WATER
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DHR	DOMESTIC HOT WATER RETURN
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DM	DIMENSION
DISCH	DISCHARGE
DN	DOWN / DOWNSPOUT NOZZLE
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EEW	EMERGENCY EYEWASH
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
ES	EMERGENCY SHOWER
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPERES
FLR	FLOOR
FM	FORCE MAIN
FP	FIREPROOF
FFM	FEET PER MINUTE
FT	FEET
FTHD	FEET HEAD
FTG	FOOTING
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HUB DRAIN
HP	HORSEPOWER
HR	HOSE REEL
HT	HEAT TRACE HOT WATER
HTR	HEATER
HVAC	HEATING VENTILATING & AIR CONDITIONING
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
IN WC	INCHES WATER COLUMN
IW	INDIRECT WASTE
KW	KILOWATT
L	LENGTH
LA	LABORATORY COMPRESSED AIR
LAV	LAVATORY
LBS	POUNDS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MAP	MASTER ALARM PANEL
MAX	MAXIMUM
MB	MOP BASIN
MBH	ONE THOUSAND BTUH
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM / MINUTE
MISC	MISCELLANEOUS
MTD	MOUNTING
MTG	MEETING
NC	NOT CALL / CLOSED
NIC	NOT IN CONTRACT
NIP	NOT IN PLAN
NIP	NOT IN PLAN
NSH	NET POSITIVE SUCTION HEAD
NT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	OPEN CENTER
OD	OUTSIDE DIAMETER / OVERFLOW DRAIN
OF	OWNER FURNISHED CONTRACTOR INSTALLED
OF	OWNER FURNISHED CONTRACTOR INSTALLED
OSD	OPEN SITE DRAIN
P	PUMP
PH	PHASE
PV	POST INDICATOR VALVE
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PW	PURE WATER
R	RADIUS
RAD	REFRIGERATED AIR DRYER
RD	ROOF DRAIN
REC	RECESSED
RECP	RECEPTACLE
REF	REFERENCE
REQD	REQUIRED
RI	ROUGH IN
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
S	STORM
SAN	SANITARY
SCH	SCHEDULE
SCFM	STANDARD CUBIC FEET PER MINUTE
SD	SUBSOIL DRAIN
SF	SQUARE FEET
SH	SHOWER
SHIT	SHEET
SPEC	SPECIFICATION
SQ	SQUARE
SR	SERVICE RECEPTOR
SS	STAINLESS STEEL
STD	STANDARD
STM	STORM
STRU	STRUCTURAL / STRUCTURE
SUCT	SUCTION
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TOB	TOP OF BEAM
TOD	TOP OF DECK
TOJ	TOP OF JOIST
TOS	TOP OF SLAB / TOP OF STEEL
TF	TRAP FILLER
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
V	VENT / VACUUM / VOLTS
VAC	VACUUM
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THRU ROOF
W	WASTE / WATER
WA	WATER HAMMER ARRESTOR
W	WITH
WO	WITHOUT
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WGE	WASTE GAS EXHAUST
WH	WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
X	EXISTING
YCO	YARD CLEANOUT
ZVB	ZONE VALVE BOX

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