

APPARATUS		PIPING		PIPING	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ELECTRIC WATER HEATER	AV	ACID VENT		DIRECTION OF FLOW
	MISCELLANEOUS EQUIPMENT	AW	ACID WASTE		STRAINER
	PUMP	A	COMPRESSED AIR		VENT THRU ROOF
	SANITARY RISER NO. 1	—O	CLEANOUT		CAPPED PIPE OR PLUG FOR FUTURE CONNECTION
	WATER RISER NO. 1	CW	COLD WATER		ROOF DRAIN
	SECTION DESIGNATION UPPER-SECTION DESIGNATION LOWER-SECTION DRAWING NUMBER	D	DRAIN		EMERGENCY ROOF DRAIN
	DETAIL DESIGNATION UPPER-DETAIL DESIGNATION LOWER-DETAIL DRAWING NUMBER		FIRE DEPARTMENT SIAMESE CONNECTION		FLOOR DRAIN OR AREA DRAIN
	SCHEDULED EQUIPMENT DESIGNATION UPPER-EQUIPMENT DESIGNATION LOWER-EQUIPMENT NUMBER		FIRE HYDRANT		FLOOR CLEANOUT
			GAS COCK		CLEANOUT
			GAS-LOW PRESSURE		WALL CLEANOUT
			GAS STOP		HOSE BIBB, NON-FREEZE WALL HYDRANT
		HW	HOT WATER		PRESSURE GAUGE W/ GAUGE COCK
		HWC	HOT WATER RETURN (CIRCULATING)		WATER HAMMER ARRESTOR - (LETTER INDICATES "PDI" SIZE)
		LA	LABORATORY COMPRESSED AIR		REDUCED PRESSURE BACKFLOW PREVENTER
		LV	LABORATORY VACUUM		FIRE WATER SUPPLY
		LOX	LIQUID OXYGEN		FIRE SPRINKLER PIPING (WATER)
		MA	MEDICAL COMPRESSED AIR		SUPERVISORY TAMPER SWITCH U.L. LISTED
		MV	MEDICAL VACUUM		FIRE DEPT. VALVE (HOSE VALVE)
		MG	MEDIUM PRESSURE GAS		U.L. CHECK VALVE W/ AUTO-BALL DRIP
		O	OXYGEN		BACKWATER VALVE
		—RW	RAINWATER (STORM) ABOVE FLOOR OR GRADE		WATER MOTOR ALARM (GONG)
		—RW—	RAINWATER (STORM) BELOW FLOOR OR GRADE		BALL VALVE
		—	SOIL OR WASTE ABOVE FLOOR OR GRADE		GATE VALVE
		---	SOIL OR WASTE BELOW FLOOR OR GRADE		GLOBE VALVE
		---	VENT PIPE		UNION
					PRESSURE REDUCING VALVE
					CHECK VALVE (NON-SLAM)
					PLUG VALVE
					PRESSURE GAUGE W/ GAUGE COCK AND SNUBBER
					ASME HIGH PRESSURE RELIEF VALVE
					FLEXIBLE CONNECTION

GENERAL NOTES:

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLBG/FP SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINE ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS OR LABOR REQUIRED FOR COMPLETE PLUMBING/FIRE PROTECTION SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS AND SUBMITTAL DATA.
- ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE LOCATION OF PLUMBING, FIRE PROTECTION PIPING, ELECTRICAL WORK, AND DISTRIBUTION DEVICES, AND ELECTRICAL SYSTEMS FOR PROPER INSTALLATION.
- THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS SHOWN ON THE DRAWINGS. ALL SYSTEMS SHALL BE FINISHED, TESTED, AND ADJUSTED, AND PROVEN TO BE FULLY OPERATIONAL AND USEABLE.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- DO NOT INSTALL PIPING WITHIN 42" HORIZONTALLY OR 36" VERTICALLY OF ELECTRICAL PANELS. WHERE PIPING ROUTING CANNOT COMPLY WITH THIS REQUIREMENT, PROVIDE 8" DEEP GALVANIZED SHEET METAL DRAIN PAN BELOW PIPING SLOPED AWAY FROM ELECTRICAL EQUIPMENT. PIPING SHALL BE LOCATED INSIDE DRAIN PAN.

PLUMBING ABBREVIATIONS

%	PERCENT	HWS	HOT WATER SUPPLY
A/C	ABOVE CEILING	HZ	HERTZ
AD	AREA DRAIN	IE	INVERT ELEVATION
ADJ	ADJUSTABLE	IA	INTAKE AIR
AFF	ABOVE FINISHED FLOOR	IN	INCHES
AFR	ABOVE FINISHED ROOF	JP	JOCKEY PUMP
AP	ACCESS PANEL	KW	KILOWATT
APPROX	APPROXIMATE	LBS	POUNDS
ARCH	ARCHITECTURAL	LF	LINEAR FEET
ASSY	ASSEMBLY	LG	LENGTH
BA	BALANCING COCK	LRA	LOCKED ROTOR AMPS
BF	BELOW FLOOR	LVG	LEAVING
BLDG	BUILDING	LWT	LEAVING WATER TEMPERATURE
BOD	BOTTOM OF DUCT	MAV	MANUAL AIR VENT
BOP	BOTTOM OF PIPE	MAX	MAXIMUM
BV	BALL VALVE	MCA	MINIMUM CIRCUIT AMPS
BWV	BACKWATER VALVE	MECH	MECHANICAL
CAP	CAPACITY	MIN	MINIMUM
CLG	CLEAR	MTD	MOUNTED
CLR	CLEANOUT	N/A	NOT APPLICABLE
CO	CONCRETE	NC	NORMALLY CLOSED
CONC	CONNECT / CONNECTION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CONN	CONTINUATION	NFZH	NON-FREEZE WALL PENETRANT
CONT	COMBINATION STAND PIPE	NIC	NOT IN CONTRACT
CSP	CHECK VALVE	NO	NORMALLY OPEN
CW	COLD WATER	NOM	NOMINUM CIRCULATION
D	DEGREE FARENHEIT	NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
DRAIN	DRAIN	NPSHR	NET POSITIVE SUCTION HEAD REQUIREMENT
DEG	DEGREE	NPV	NON-POTABLE WATER
DIA	DIAMETER	OC	ON CENTER
DIR	DIRECT	OPEP	OPERATING
DISC	DISCONNECT	OPENING	OPENING
DIV	DIVISION	PD	PRESSURE DROP
DN	DOWN	PDI	PLUMBING AND DRAINAGE INSTITUTE
DS	DOWNSPOUT	PH	PRESSURE GAUGE
DT	DAY TANK	PH	PHASE
DST	DEEP SEAL TRAP	PLBG	PLUMBING
DWG	DRAWING	PRESS	PRESSURE
EA	ELECTRICAL	PRV	PRESSURE REDUCING VALVE
EAF	ELECTRIC WATER HEATER	PSIA	PRESSURE PER SQUARE INCH ABSOLUTE
ELEC	ELECTRICAL	PSIG	PRESSURE PER SQUARE INCH GAUGE
ENT	ENTERING	RD	ROOF DRAIN
ERD	EMERGENCY ROOF DRAIN	RED	REDUCER
ES	ELECTRIC WATER HEATER	REQ	REQUIREMENT
ES	ELECTRIC WATER HEATER	RPM	REVOLUTION PER MINUTE
FAV	FRESH AIR VENT	RP/BFP	REDUCED PRESSURE BACKFLOW PREVENTER
FAVTR	FRESH AIR VENT THRU ROOF	RM	ROOM
FAW	FRESH AIR WASTE	RW	RAIN WATER
FCO	FLOOR CLEANOUT	S	SANITARY OR SOIL
FD	FLOOR DRAIN (PLMB ONLY)	SPEC	SPECIFICATION
FDV	FIRE DEPT. VALVE (HOSE VALVE)	SO	SQUARE
FIN	FINISHED	SR	SANITARY RISER (PLMB ONLY)
FLA	FULL LOAD AMPS	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STD	STANDARD
FLR	FLOOR	STR	STRAINER
FM	FACTORY MUTUAL	STRUCT	STRUCTURAL
FOP	FUEL OIL PUMP	SV	SOLENOID VALVE
FOS	FUEL OIL SUPPLY	T&PRV	TEMPERATURE AND PRESSURE RELIEF VALVE
FOR	FUEL OIL RETURN	TDH	TOTAL DYNAMIC HEAD
FOV	FUEL OIL VENT	TEMP	TEMPERATURE
FP	FIRE PUMP	TP	TRAP PRIMER
FRP	FEET PER MINUTE	TYP	TYPICAL
FRP	FIBERGLASS REINFORCED PIPE	UG	UNDERGROUND
FS	FIRE SPRINKLER PIPE (WATER)	UL	UNDERWRITERS LABORATORIES LISTING
FSD	FIRE/SMOKE DAMPER	UL/CHV	UL CHECK VALVE WITH AUTO-BALL DRIP
FT	FEET	UN	UNION
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GAL	GALLON	V	VENT
GC	GENERAL CONTRACTOR	VT	VOLT
GLV	GLOBE VALVE	VA	VALVE
GPH	GALLON PER HOUR	VB	VACUUM BREAKER
GPM	GALLON PER MINUTE	VEL	VELOCITY
GR	GRADE	VTR	VENT TO ROOF
GV	GATE VALVE	W	W/
GYP	GYPSPUM	WC	WATER
H	HUMIDIFIER	WC	WATER COLUMN
HB	HOSE BIBB	WCO	WALL CLEAN OUT
HC	HANDICAPPED	WD	WIDTH
HD	HOOD	WG	WATER GAUGE
HG	MERCURY	WH	WATER HEATER (PLMB ONLY)
HR	HOUR	WHA	WATER HAMMER ARRESTER
HT	HEIGHT	WMA	WATER MOTOR ALARM (GONG)
HW	HOT WATER	WR	WATER RISER
HWC	HOT WATER RECIRCULATING	WT	WEIGHT
HWR	HOT WATER RETURN		



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CONSTRUCTION

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DATE DESCRIPTION:

SYMBOLS &
ABBREVIATIONS

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