

**ABBREVIATIONS**

ABV	ABOVE	P	PARTIAL
AFF	ABOVE FINISHED FLOOR	PC	PLUMBING CONTRACTOR
AP	ACCESS PANEL	PDR	PLENUM DRAIN
		PERF	PERFORATED
BFP	BACKFLOW PREVENTER	P-	PLUMBING FIXTURE IDENTIFICATION
BLDG	BUILDING	PH	PHASE
BLW	BELOW	PI	PRESSURE INDICATOR
BSMT	BASEMENT	PIV	POST INDICATOR VALVE
		POS	POSITIVE
CFH	CUBIC FEET PER HOUR	PRESS	PRESSURE
CFM	CUBIC FEET PER MINUTE	PS	PRESSURE SWITCH
CHP	CONCRETE HOUSEKEEPING PAD	PSI	POUNDS PER SQUARE INCH
CI	CAST IRON	PSIG	POUNDS PER SQUARE INCH GAUGE
CLG	CEILING	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
CO	CLEAN OUT	PT	PRESSURE TRANSMITTER
COL	COLUMN	PV	PLUG VALVE
COMP	COMPRESSOR	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	PVS	POLYVINYL COATED STEEL
CONN	CONNECTION		
CONT'N	CONTINUATION	QD	QUICK DISCONNECT
CONTR	CONTRACTOR	QTY	QUANTITY
CP	CONCRETE PIPE		
CS	CLIP SINK	RAC	RUN ABOVE CEILING
°C	DEGREES CENTIGRADE	RAF	RUN ABOVE FLOOR
		RATC	RUN AT CEILING
DIA	DIAMETER	RBC	RUN BELOW CEILING
DIAG	DIAGRAM	RBF	RUN BELOW FLOOR
DISCH	DISCHARGE	RBG	RUN BELOW GRADE
DIW	DOWN IN WALL	RBJ	RUN BELOW JOIST
DN	DOWN	RCP	REINFORCED CONCRETE PIPE
DWG	DRAWING	RD	ROOF DRAIN
		REL	RELIEF
(E)	EXISTING	REQD	REQUIRED
EA	EACH	RICW	RUN IN CASEWORK
ELEV	ELEVATION	RIE	RUN IN ENCLOSURE
ENT	ENTERING	RIW	RISE IN WALL
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	ROD	ROOF OVERFLOW DRAIN
EQUIV	EQUIVALENT		
ETC	AND SO FORTH	SA	SHOCK ABSORBER
EWC	ELECTRIC WATER COOLER	SCH	SCHEDULE
EW	EYE WASH	SCHEM	SCHEMATIC
EXT	EXTERNAL	S/S	SERVICE SINK
		SPEC	SPECIFICATION
°F	DEGREES FAHRENHEIT	SQ	SQUARE
FA	FROM ABOVE	SS	STAINLESS STEEL
FB	FROM BELOW	STD	STANDARD
FD	FLOOR DRAIN	STL	STEEL
FIN	FINISHED	STR	STRUCTURAL
FL	FLANGE	SUP	SUPPLY
FLEX	FLEXIBLE	SYS	SYSTEM
FLR	FLOOR	SIP	STEAM IN PLACE
FP	FIRE PROTECTION	S/SHO	SAFETY SHOWER
FPM	FEET PER MINUTE		
FPS	FEET PER SECOND	TDH	TOTAL DYNAMIC HEAD
FS	FEET	TEMP	TEMPERATURE
FT	FEET	TP	TOTAL PRESSURE
FTB	FLOOR TO BOTTOM	TT	TEMPERATURE TRANSMITTER
FTC	FLOOR TO CENTERLINE	TP	TYPICAL
FTC	FLOOR TO CENTERLINE	TI	TEMPERATURE INDICATOR
FPH	FROST PROOF HYDRANT		
FXC	FLEXIBLE CONNECTION	VI	VIBRATION ISOLATOR
		VTR	VENT THROUGH ROOF
GA	GAUGE		
GALV	GALVANIZED	W	WIDTH
GC	GENERAL CONTRACTOR	W	WITH
GPD	GALLONS PER DAY	W/O	WITHOUT
GPH	GALLONS PER HOUR	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	WCH	WATER CLOSET-HANDICAPPED
		WM	WATER METER
HT	HEIGHT		
HB	HOSE BIBB		
HD	HEAD (SEE SCHEDULES)		
HR	HOUR		
HTR	HEATER		
ID	INTERNAL DIAMETER		
INCL	INCLUDING		
INV	INVERT		
K	TYPE OF COPPER TUBING		
LT	LEVEL TRANSMITTER		
LAV	LAVATORY		
MAX	MAXIMUM		
MC	MECHANICAL CONTRACTOR		
MR	MOP RECEPTOR		
MED	MEDIUM		
MFR	MANUFACTURER		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MTD	MOUNTED		
M	TYPE OF COPPER TUBING		
N	NEW		
NC	NORMALLY CLOSED		
NIC	NOT IN CONTRACT		
NH	NUT		
No	NONE		
NO	NORMALLY OPEN		
NPV	NON-POTABLE WATER		
NO	NOMINAL		
NTS	NOT TO SCALE		
OD	OUTSIDE DIMENSION		
OPG	OPENING		
OS	OPEN SITE		
OT	OFF TOP		
OZ	OUNCE		

PLUMBING PIPING DESIGNATIONS	
SYMBOL	TYPE
— (E)(NAME) —	EXISTING PIPING TO REMAIN
----- (NAME) -----	EXISTING PIPING TO BE REMOVED
— CW —	DOMESTIC COLD WATER
— HW —	DOMESTIC HOT WATER
— HWR —	DOMESTIC HOT WATER RECIRCULATED
— SAN —	SANITARY DRAIN
----- V -----	VENT
— D —	EQUIPMENT DRAIN
— LW —	LAB WASTE
----- LV -----	LAB VENT
— F —	FIRE MAIN
— PS —	PURE STEAM
— PSC —	PURE STEAM CONDENSATE
— CA —	COMPRESSED AIR
— SP —	SPRINKLER
— ST —	STORM WATER
— HPS —	HIGH PRESSURE STEAM
— HPC —	HIGH PRESSURE CONDENSATE
— LPS —	LOW PRESSURE STEAM
— LPC —	LOW PRESSURE CONDENSATE
— TWS —	TOWER WATER SUPPLY
— TWR —	TOWER WATER RETURN
— VAC —	VACUUM
— G —	NATURAL GAS
— PG —	PROPANE GAS
— DIS —	DISTILLED WATER SUPPLY
— DIR —	DISTILLED WATER RETURN
— DES —	DEIONIZED WATER SUPPLY
— DER —	DEIONIZED WATER RETURN
— WFIS —	WATER FOR INDUSTRIAL SUPPLY
— WFIR —	WATER FOR INDUSTRIAL RETURN
— USPS —	USP PURIFIED WATER SUPPLY
— PHWR —	PROCESS HOT WATER RECIRCULATION
— PW —	PROCESS WASTE
— PV —	PROCESS VENT
— He —	HELIUM
— N2 —	NITROGEN
— O2 —	OXYGEN
— H2 —	HYDROGEN

PLUMBING PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	PRESSURE REDUCING VALVE (PRV)
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	VALVE IN RISE OR DROP
	BALL VALVE
	SWING CHECK VALVE
	LIFT CHECK VALVE
	GATE VALVE, ANGLE
	GLOBE VALVE, ANGLE
	THROTTLING CONTROL VALVE
	TWO-WAY CONTROL VALVE
	SOLENOID VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	RELIEF/SAFETY VALVE
	GAS COCK
	GAS PRESSURE REGULATOR
	STRAINER
	STRAINER WITH BLOW OFF VALVE
	FLEXIBLE CONNECTION
	SPRINKLER HEAD
	PIPE RISE
	PIPE DROP
	UNION - SCREWED OR FLANGED
	FLOW SWITCH
	TEMPERATURE TRANSMITTER
	PRESSURE TRANSMITTER OR PRESSURE SWITCH
	THERMOMETER OR TEMPERATURE INDICATOR
	GAUGE WITH GAUGE COCK / PRESSURE INDICATOR
	BACKFLOW PREVENTOR (REDUCED ZONE)

PLUMBING PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER (DOUBLE CHECK VALVE)
	WATER HAMMER ARRESTOR
	CIRCUIT SETTING BALANCING VALVE
	HOSE BIBB
	ROOF DRAIN
	OUTSIDE DRAIN
	FLOOR DRAIN
	AREA DRAIN
	CLEANOUT
	WALL CLEANOUT

PLUMBING RISER DESIGNATIONS	
SYMBOL	TYPE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	SANITARY STACK
	VENT
	RAIN WATER CONDUCTOR
	FIRE
	WET STACK
	LAB WASTE STACK
	LAB VENT
	LAB AIR
	LAB VACUUM
	NATURAL GAS
	DEIONIZED WATER

No.	Description	Date

**MEISTER-COX ARCHITECTS**  
 INFO@MEISTER-COX.COM  
 PHONE: 610-375-1331 FAX: 610-375-4555  
 1522 PENN AVENUE WYOMISSING, PA 19610  
 WWW.MEISTER-COX.COM

SEAL:

**PLUMBING INFORMATION SHEET**  
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