PIPING SYMBOLS

- UNION
- FLANGE
- PIPE ANCHOR
- PIPE GUIDE OR SLEEVES
- PIPE ELBOW TURNED DOWN
- PIPE ELBOW TURNED UP
- PIPING TEE–DOWN
- PIPING TEE–UP
- PIPE RISER
- FCO FLOOR CLEAN OUT
- CO CLEAN OUT
- WCO WALL CLEAN OUT
- PIPE PITCHES DOWN
- GENERIC VALVE, SEE SPECIFICATIONS FOR TYPE
- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE (MANUAL)
- 2–WAY CONTROL VALVE
- 3–WAY CONTROL VALVE
- BALANCING VALVE (CIRCUIT SETTER)
- CHECK VALVE
- PLUG VALVE
- GLOBE VALVE
- NEEDLE VALVE
- BACK FLOW PREVENTER
- SOLENOID VALVE
- PRESSURE REDUCING OR REGULATING VALVE
- PRESSURE RELIEF VALVE
- STRAINER
- STRAINER W/BLOWDOWN
- PS PRESSURE SWITCH
- FS FLOW SWITCH
- PG PRESSURE GAUGE AND COCK
- THERMOMETER AND WELL
- TEMPERATURE & PRESSURE TAP (PETE'S PLUG)
- HOSE END DRAIN VALVE WITH CAP
- ORIFICE FLOWMETER
- FLEXIBLE PIPE CONNECTOR
- EXPANSION JOINT
- CONCENTRIC REDUCER/INCREASER
- ECCENTRIC REDUCER/INCREASER
- HB HOSE BIBB
- WH WALL HYDRANT
- DIRECTION OF FLOW
- FIRE DEPARTMENT CONNECTION
- PUMP
- WATER HAMMER SUPPRESSER
- H HUMIDIFIER
- DP DIFFERENTIAL PRESSURE TRANSMITTER
- SPRINKLER HEAD
- GAS TURRET
- MEDICAL OXYGEN OUTLET
- MEDICAL VACUUM INLET
- MEDICAL AIR OUTLET
- NITROUS OXIDE OUTLET

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
AV	AIR VENT
BA	BREATHING COMPRESSED AIR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
CFF	CAPPED FOR FUTURE
CFH	CUBIC FEET PER HOUR
CLG	CEILING
CO	CLEANOUT
CONT	CONTINUATION
COORD	COORDINATE
CT	COOLING TOWER
CTE	CONNECT TO EXISTING
CU	COPPER
CV	CONTROL VALVE
CW	COLD WATER
CW–P	CITY WATER–PROCESS
DC	DOUBLE CONTAINED
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DIC	DOWN IN CHASE
DIW	DOWN IN WALL
DN	DOWN
DS	DOWNSPOUT
DT	DROP AND TRANSITION
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
ENC	ENCLOSURE
(E)	EXISTING
EXIST.	EXISTING
FBO	FURNISHED BY OWNER
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD–#	FLOOR DRAIN TAG
FG	FIBERGLASS
FRHB	FREEZE RESISTANT HOSE BIBB
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HUMIDIFIER
HB	HOSE BIB
HRU	HEAT RECOVERY UNIT
HTR	HEATER
H & V	HEATING AND VENTILATION
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HX	HEAT EXCHANGER
IN WG	INCHES WATER GAUGE
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU/HR.
ME	MECHANICAL ENGINEER
MFR	MANUFACTURER
MIN	MINIMUM
MPV	MULTI–PURPOSE VALVE
MTD	MOUNTED
MUA	MAKE UP AIR
NPW	NON–POTABLE WATER
NTS	NOT TO SCALE
P–#	PLUMBING FIXTURE TAG
PP	POLY–PROPYLENE
PPE	PRE PURCHASED EQUIPMENT
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
(R)	REMOVE
(REL.)	RELOCATED
RD	ROOF DRAIN
RHC	REHEAT COIL
RM	ROOM
RPZ	REDUCED PRESSURE ZONE BFP
RV	RELIEF VALVE
SCV	SELF CONTAINED VALVE
SS	STAINLESS STEEL
TE	TEMPERATURIZED ELEMENT (SENSOR)
TOP	TOP OF PIPE
TTS	TIGHT TO STEEL
TYP	TYPICAL
UIC	UP IN CHASE
UIW	UP IN WALL
UV	UNIT VENTILATOR
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
VCFF	VALVED AND CAPPED FOR FUTURE
VFD	VARIABLE FREQUENCY DRIVE
VOC	VOLATILE ORGANIC COMPOUNDS
W/	WITH
WCO	WALL CLEANOUT
WH	WALL HYDRANT

PIPING SYSTEMS

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

TEMP	DOMESTIC HOT WATER (TEMP °F)	
TEMP	RECIRC. DOMESTIC HOT WATER (TEMP °F)	
CW	DOMESTIC COLD WATER	
HW	DOMESTIC HOT WATER	
RHW	RECIRCULATED DOMESTIC HOT WATER	
S, W or KW	S	SANITARY, W WASTE & KW KITCHEN WASTE
S, W or KW	S	SANITARY, W WASTE & KW KITCHEN WASTE (EXIST.)
S, W or KW	S	SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB)
S, W or KW	S	SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB–EXIST.)
SD	SD	STORM DRAIN
SD	SD	STORM DRAIN (EXIST.)
SD	SD	STORM DRAIN (BELOW SLAB)
SD	SD	STORM DRAIN (BELOW SLAB–EXIST.)
V	V	SANITARY VENT
V	V	SANITARY VENT (EXIST.)
V	V	SANITARY VENT (BELOW SLAB)
V	V	SANITARY VENT (BELOW SLAB–EXIST.)

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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0	ISSUED FOR CONSTRUCTION	9-12-08

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LEGEND AND ABBREVIATIONS
SHEET TITLE:

SCALE:	NOT TO SCALE	DATE:	9-12-08
PROJECT MANAGER:	CDP	GRAPHIC SCALE:	0" 1"
JOB CAP/DRAWN:	MDR/DIL		
A/E OF RECORD:	KME	SHEET No.	P-001
SMRT CAD FILE:	P-001-08103		
PROJECT No.	08103		

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A1 PARTIAL FLOOR PLAN

1/4"=1'–0" *