


















GENERAL PLUMBING SYMBOLS




























SYMBOL	DESCRIPTION
	DRAIN TO REMAIN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	NON-POURABLE WATER
	SCHEDULE 40 PIPE
	SCHEDULE 80 PIPE
	SCHEDULE 160 PIPE
	SCHEDULE 40 FLANGE
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	SCHEDULE 40

















GENERAL PLUMBING SYMBOLS

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DRAWING SYMBOLS

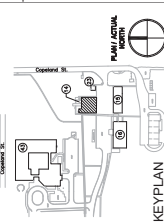
	BRANCHING VALVE
	ISOLATION VALVE
	ISOLATION VALVE NORMALLY CLOSED
	ISOLATION VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	ANGLE GLOBE VALVE
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	PRESSURE REGULATING VALVE
	AUTOMATIC FLOW CONTROL VALVE
	PRESSURE RELIEF VALVE
	MANUAL AIR VENT
	TEST PLUG (PRESSURE/TEMPERATURE)
	AUTOMATIC AIR VENT
	BACKFLOW PREVENTER

	DIRECTION OF FLOW (PIPE FIRST, DOWN)
	ANCHOR
	REDUCER OR INCREASER
	ECCENTRIC REDUCER
	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	PIPE OR DUCT IN PIPE
	FLANGE
	CONTROL
	PIPE UP
	PIPE DOWN
	POINT OF CONNECTION TO EXISTING WORK
	LIMIT OF EXCAVATION
	STRAINER
	THERMOMETER
	PRESSURE GAGE
	FLOW ELEMENT
	TEMPERATURE SENSOR
	CLEAN OUT
	HOSE BIB
	FLOOR DRAIN
	HEAT TRACING
	WATER HAMMER ARRESTER
	MOTOR
	PUMP

	KEY NOTE SYMBOL
	MULTIPLE KEY NOTES APPLYING TO THE SAME ITEM
	DETAIL NUMBER
	DRAWING NUMBER WHERE SHOWN
	SECTION LETTER
	DRAWING NUMBER WHERE SHOWN
	BUILDING NO. WHERE EQUIPMENT IS LOCATED.
	EQUIPMENT ABBREVIATION (PUMP)
	PUMP NO. 3 IN BUILDING NO. 28
	TYPICAL UNIT NO.
	PIPE SYSTEM
	RISER NUMBER
	1 HR FIRE RATED BARRIER
	2 HR FIRE RATED BARRIER
	SMOKE BARRIER
	AREA OF WORK

[illegible]

1. EXISTING 3/4" DOW & 3/4" DHW UP TO EXISTING HEATER TO BE REMOVED, NEW 1-1/2" DOW, 1-1/2" DHW & 1/2" DHW UP TO NEW HEATER.
2. CONNECT NEW 1-1/2" DOW & 1-1/2" DHW TO EXISTING.
3. EXISTING DOW & DHW PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED.
4. CONNECT EXISTING 1/2" DOW & 1/2" DHW SINK SUPPLIES TO NEW DOW & DHW.
5. EXISTING NIPW MAKE-UP WATER PIPING AND ASSOCIATED SUPPORTS TO BE REMOVED
6. 1/2" NIPW TO SAMPLE COOLER.



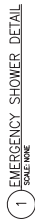
CONSTRUCTION BID DOCUMENTS

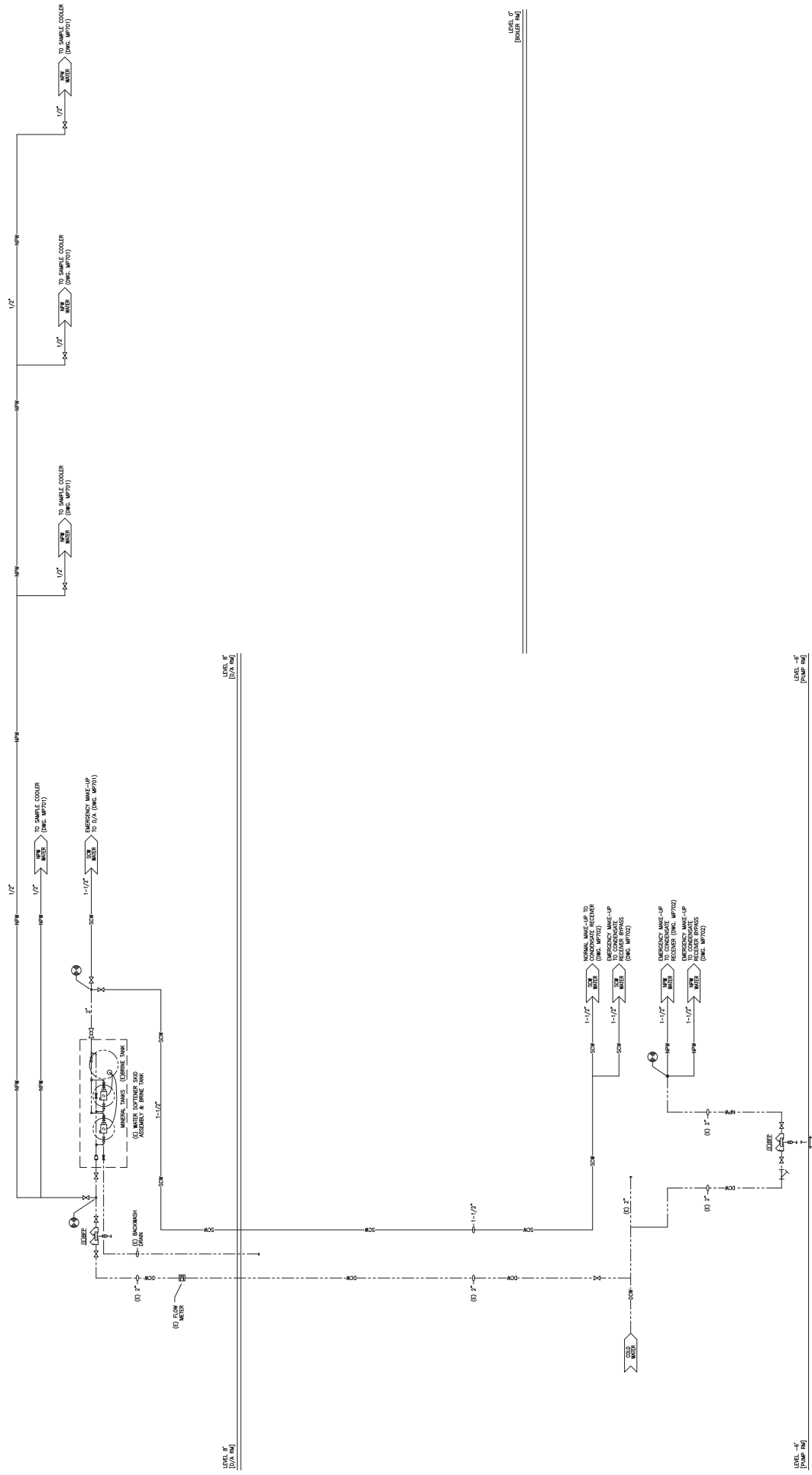
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VA FORM 08-6231

MARK	LOCATION	AREA AND/OR SUB AREA	SYSTEM AND/OR SERVICE	TYPE	WATER CONDITIONS				STEAM PRESSURE		TEMP		REMARKS
					FLOW	EWT	LMT	WPD	ENT. PRESS.	EXIT PRESS.	THP NO	CAPACITY	
					GPM	"	"	FT	PSIG	PSIG	LB/HR	LB/HR	
1440W-1	PUMP RM MEZZINE	BUILDING 14	COMPT. HOT WATER	DOUBLE WALL THERM INSUL.	20	50	120	18	85	32	530		BASE OF DESIGN AERFO D/O

MARK	LOCATION	AREA AND/OR BLOS SERVED	TYPE	CIRCULATING FLUID				ELECTRICAL MOTOR				REMARKS		
				FLUID	FLOW GPM	HEAD FT	DISCHARGE FT	TEMPERATURE °F	SP GR	HP	PHASE		VOLT	MAX RPM
14-001-1	TURBINE INTERNE	BLOS 14	DWY CIRCULATION	POTABLE WATER	5	5	-	180	1	0.06	1	115		BASE OF DESIGN GRANDIOS ACTIVE

[illegible]



1 MAKE-UP AND SOFTENED WATER FLOW DIAGRAM

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