



D1 SYMBOLS LEGEND

NONE

N:\Projects\2017\17051\2 A Design Phase\AC and Heating Upgrades\1 Drawings\17051\17051.dwg Dec 22, 2017 - 10:48am

AW	ACID WASTE	LPR	LOW-PRESSURE CONDENSATE
ATV	AIR RELIEF	LPS	LOW-PRESSURE STEAM
BBD	BOILER BLOWDOWN	MA	MEDICAL AIR
BF	BOILER FEED	MPR	MEDIUM-PRESSURE CONDENSATE
C	CONDENSATE (HVAC DRAIN PAN)	MPS	MEDIUM-PRESSURE STEAM
C	CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)	MU	MAKEUP WATER
CA	COMPRESSED AIR	N2	NITROGEN
CHWR	CHILLED WATER RETURN	NG	NATURAL GAS
CHWS	CHILLED WATER SUPPLY	NO	NITROUS OXIDE
CWS	CONDENSER WATER SUPPLY	NPW	NON-POTABLE WATER
CWR	CONDENSER WATER RETURN	OX	OXYGEN
	DOMESTIC COLD WATER	PC	PUMPED CONDENSATE
	DOMESTIC HOT WATER	PCWR	PROCESSED COLD WATER RETURN
	DOMESTIC WATER RECIRC.	PCWS	PROCESSED COLD WATER SUPPLY
D	DRAIN	RD	REFRIGERANT DISCHARGE
FM	PUMP FORCE MAIN	RL	REFRIGERANT LIQUID
FOF	FUEL OIL FILL	RS	REFRIGERANT SUCTION
FOR	FUEL OIL RETURN	RW	RAIN WATER ABOVE FLOOR
FOS	FUEL OIL SUPPLY	<b>RW</b>	RAIN WATER BELOW GRADE
FOV	FUEL OIL TANK VENT		SANITARY SOIL WASTE (ABOVE FLOOR)
FW	FEEDWATER		SANITARY SOIL WASTE (BELOW FLOOR)
GR	GLYCOL RETURN		SANITARY SOIL VENT (ABOVE FLOOR)
GS	GLYCOL SUPPLY		SANITARY SOIL VENT (BELOW FLOOR)
H	HUMIDIFICATION LINE	SV	SANITARY WASTE & VENT COMBINATION
H2	HYDROGEN GAS	SP	SPRINKLER MAIN PIPING
HPWR	HEAT PUMP WATER RETURN	SWR	SOLAR WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY	SWS	SOLAR WATER SUPPLY
HPC	HIGH-PRESSURE CONDENSATE	TP	TRAP PRIMER PIPING ABOVE GRADE
HPS	HIGH-PRESSURE STEAM	TP	TRAP PRIMER PIPING BELOW GRADE
HTWR	HIGH-TEMP. HOT WATER RETURN	TWR	TEMPERED RETURN WATER
HW	HOT WATER RETURN	TWS	TEMPERED SUPPLY WATER
HWS	HOT WATER SUPPLY	VAC	VACUUM (AIR)
IND	INDUSTRIAL WASTE	VC	VACUUM CLEANING (HOUSE)
IW	INDIRECT WASTE	VPD	VACUUM PUMP DISCHARGE
LN	LIQUID NITROGEN		
LOX	LIQUID OXYGEN		
LPC	LOW-PRESSURE CONDENSATE		
LP	LIQUID PETROLEUM GAS		

AAV	AUTOMATIC AIR VENT	DN	DOWN	LP	LIQUID PETROLEUM GAS	TP	TRAP PRIMER
AC	ABOVE CEILING	DS	DOWNSPOUT	LPR	LOW PRESSURE STEAM RETURN	TSP	TOTAL STATIC PRESSURE
ACC	AIR COOLED CONDENSER	DT	DROP AND TRANSITION	LPS	LOW PRESSURE STEAM SUPPLY	TTS	TIGHT TO STEEL
ACU	AIR CONDITIONING UNIT	DV	DRAIN VALVE	MAX	MAXIMUM	TV	TURNING VANE
ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	MBH	1000 BTU/HR.	TW	TEMPERED WATER
AD	ACCESS DOOR	EA	EXHAUST AIR	MFR	MANUFACTURER	TYP	TYPICAL
AE	ACID EXHAUST	EF	EXHAUST FAN	MIN	MINIMUM	UH	UNIT HEATER
AW	ACID WASTE	EG	EXHAUST GRILLE	MOT	MOTOR OPERATED DAMPER	UIC	UP IN CHASE
AFF; A.F.F.	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MPG	MEDIUM PRESSURE GAS	UIW	UP IN WALL
AHU	AIR HANDLING UNIT	ELONG	ELONGATE	MPV	MULTI-PURPOSE VALVE	UV	UNIT VENTILATOR
AP	ACCESS PANEL	ENC	ENCLOSURE	MTD	MOUNTED	V	VENT
APPROX	APPROXIMATE; APPROXIMATELY	ER	EXHAUST REGISTER	MTG	MOUNTING	VAC	VACUUM
APMR	AS PER MFR'S RECOMMENDATIONS	ESP	EXTERNAL STATIC PRESSURE	MUA	MAKE UP AIR	VAC	VACUUM BREAKER
ATC	AUTOMATIC TEMPERATURE CONTROL	ET	EXPANSION TANK	N.C.	NORMALLY CLOSED	VCFV	VALVE & CAP FOR FUTURE
AV	AIR VENT	(E)	EXISTING	N.O.	NORMALLY OPEN	VD	VOLUME DAMPER - MANUAL
BC	BALANCING COCK	F & T	FLOAT AND THERMOSTATIC	NPT	NATIONAL PIPE THREAD	VLV	VALVE
BDD	BACKDRAFT DAMPER	FBO	FURNISHED BY OTHERS	NTS	NOT TO SCALE	VTR	VENT THROUGH ROOF
BG	BLAST GATE	FBP	FACE AND BYPASS	OA	OUTSIDE AIR	VS	VENT STACK
BF	BARRIER FREE	FC	FLEXIBLE CONNECTION	OBDD	OPPOSED BLADE DAMPER	VTR	VENT THROUGH ROOF
BFP	BACKFLOW PREVENTER	FCO	FLOOR CLEANOUT	OD	OUTSIDE DIAMETER	W	WASTE
BHP	BRAKE HORSEPOWER	FD	FLOOR DRAIN TAG	OED	OPEN ENDED DUCT	W/	WITH
BLDG	BUILDING	FD-#	FLOOR DRAIN TAG	P-#	PLUMBING FIXTURE TAG	WB	WET BULB TEMPERATURE, °F
BOD	BOTTOM OF DUCT	FD	FIRE DAMPER	PD	PUMPED DISCHARGE	WCO	WALL CLEANOUT
B.T.U.	BRITISH THERMAL UNIT	FIN	FINISH	PRS	PRESSURE REDUCING STATION	WH	WATER HEATER
C; CONV.	CONVECTOR	FL	FLOOR	PRV	PRESSURE REDUCING VALVE	WHYD	WALL HYDRANT
CCW	COUNTER CLOCKWISE	FTG	FOOTING	RA	RETURN AIR	NTS	NOT TO SCALE
CF	CAPPED FOR FUTURE	FTR	FINNED TUBE RADIATION	RD	ROOF DRAIN	Ø	DIAMETER
CFM	CUBIC FEET PER MINUTE	FS	FLOW SWITCH	REC	RECOMMENDATION	@	AT
CLG	CEILING	FM	FORCE MAIN	REG	REGULAR	&	AND
CO	CLEANOUT	GC	GENERAL CONTRACTOR	RF	RETURN FAN	%	PERCENT
CM	CONSTRUCTION MANAGER	GPM	GALLONS PER MINUTE	RG	RETURN GRILLE		
CNTR	COUNTER; COUNTERTOP	GV	GRAVITY VENTILATOR	RHC	REHEAT COIL		
CONN	CONNECT; CONNECTION	H	HUMIDIFIER	RM	ROOM		
CONT	CONTINUE; CONTINUATION	HB	HOSE BIB	RPZ	REDUCED PRESSURE BFP		
COORD	COORDINATE	HC; HDC	HANDICAP ACCESS	RR	RETURN REGISTER		
CORR	CORRIDOR	HGT, HT.	HEIGHT	RV	RELIEF VALVE		
CR	CHEMICAL RESISTING	HP	HEAT PUMP	RW	RAIN WATER		
CT	COOLING TOWER	HRU	HEAT RECOVERY UNIT	S	SUPPLY AIR		
CTE	CONNECT TO EXISTING	HTR	HEATER	SA-"	SHOCK ABSORBER OF PDI SIZE ("") AS INDICATED		
CTR	CENTER	H & V	HEATING AND VENTILATION	SCV	SELF CONTAINED VALVE		
CTRLN	CENTERLINE	HVAC	HEATING, VENTILATING, & AIR COND.	SD	SMOKE DAMPER		
CU	COPPER	HW	HOT WATER RETURN	SF	SUPPLY FAN		
CUH	CABINET UNIT HEATER	HWS	HOT WATER SUPPLY	SG	SUPPLY GRILLE		
C.V.	CONTROL VALVE	HX	HEAT EXCHANGER	SGL	SINGLE		
CW	COLD WATER/CLOCKWISE	ID	INSIDE DIAMETER	SHT	SHEET		
DB	DRY BULB TEMPERATURE, °F	IN WG	INCHES WATER GAUGE	SPLR	SPRINKLER		
DC	DOUBLE CONTAINED	INCL	INCLUDING	SQ FT; S. F.	SQUARE FEET		
DDC	DIRECT DIGITAL CONTROL	INV EL	INVERT ELEVATION	SR	SUPPLY REGISTER		
DET	DETAIL	IPS	IRON PIPE SIZE	S/O	SHUT OFF		
DIA	DIAMETER	KE-#	KITCHEN EQUIPMENT NUMBER	S.S.	STAINLESS STEEL		
DIC	DOWN IN CHASE	LD	LINEAR DIFFUSER	TG	TRANSFER GRILLE		
DIW	DOWN IN WALL	LE-#	SCIENCE LAB EQUIPMENT NUMBER	TOD	TOP OF DUCT		

**NOTE**  
ALL GENERAL NOTES, SYMBOL LEGENDS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING AND HVAC DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.

A1 PIPING LINETYPE LEGEND

NONE

A4 ABBREVIATIONS

NONE

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MECHANICAL ABBREVIATIONS AND LEGEND

AIR CONDITIONING AND HEATING UPGRADES  
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**MH-000**

REVISIONS

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