



**E1** SYMBOLS LEGEND

NONE

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
CO2	CARBON DIOXIDE	MPS	MEDIUM-PRESSURE STEAM
C	CONDENSATE (HVAC DRAIN PAN)	MU	MAKEUP WATER
C	CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)	N2	NITROGEN
CA	COMPRESSED AIR	NG	NATURAL GAS
CHWR	CHILLED WATER RETURN	NO	NITROUS OXIDE
CHWS	CHILLED WATER SUPPLY	NPW	NON-POTABLE WATER
CWS	CONDENSER WATER SUPPLY	O2	OXYGEN
CWR	CONDENSER WATER RETURN	PC	PUMPED CONDENSATE
	DOMESTIC COLD WATER	PCWR	PROCESSED COLD WATER RETURN
	DOMESTIC HOT WATER	PCWS	PROCESSED COLD WATER SUPPLY
	DOMESTIC WATER RECIRC.	RD	REFRIGERANT DISCHARGE
D	DRAIN	RL	REFRIGERANT LIQUID
FM	PUMP FORCE MAIN	RS	REFRIGERANT SUCTION
FOF	FUEL OIL FILL	RW	RAIN WATER ABOVE FLOOR
FOR	FUEL OIL RETURN	RW	RAIN WATER BELOW GRADE
FOS	FUEL OIL SUPPLY		SANITARY SOIL WASTE (ABOVE FLOOR)
FOV	FUEL OIL TANK VENT		SANITARY SOIL WASTE (BELOW FLOOR)
FW	FEEDWATER		SANITARY SOIL VENT (ABOVE FLOOR)
GR	GLYCOL RETURN		SANITARY SOIL VENT (BELOW FLOOR)
GS	GLYCOL SUPPLY	SV	SANITARY WASTE & VENT COMBINATION
H	HUMIDIFICATION LINE	SP	SPRINKLER MAIN PIPING
H2	HYDROGEN GAS	SWR	SOLAR WATER RETURN
HPWR	HEAT PUMP WATER RETURN	SWS	SOLAR WATER SUPPLY
HPWS	HEAT PUMP WATER SUPPLY	TP	TRAP PRIMER PIPING ABOVE GRADE
HPC	HIGH-PRESSURE CONDENSATE	TP	TRAP PRIMER PIPING BELOW GRADE
HPS	HIGH-PRESSURE STEAM	TWR	TEMPERED RETURN WATER
HTWR	HIGH-TEMP. HOT WATER RETURN	TWS	TEMPERED SUPPLY WATER
HWR	HOT WATER RETURN	VAC	VACUUM (AIR)
HWS	HOT WATER SUPPLY	VC	VACUUM CLEANING (HOUSE)
IND	INDUSTRIAL WASTE	VPD	VACUUM PUMP DISCHARGE
IW	INDIRECT WASTE		
LN2	LIQUID NITROGEN		
LOX	LIQUID OXYGEN		
LPC	LOW-PRESSURE CONDENSATE		
LP	LIQUID PETROLEUM GAS		

**A1** PIPING LINETYPE LEGEND

NONE

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	MN	MINIMUM	UH	UNIT HEATER
AW	ACID WASTE	EG	EXHAUST GRILLE	MOD	MOTOR OPERATED DAMPER	UIC	UP IN CHASE
AFF, A.F.F.	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MPG	MEDIUM PRESSURE GAS	UW	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	VB	VACUUM BREAKER
ATC	AUTOMATIC TEMPERATURE CONTROL	ET	EXPANSION TANK	N.C.	NORMALLY CLOSED	VCFE	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	VV	VALVE
BDD	BACKDRAFT DAMPER	FBO	FURNISHED BY OTHERS	NTS	NOT TO SCALE	VTR	VENT STACK
BG	BLAST GATE	FBP	FACE AND BYPASS	OA	OUTSIDE AIR	VTS	VENT THROUGH ROOF
BF	BARRIER FREE	FC	FLEXIBLE CONNECTION	OB	OPPOSED BLADE DAMPER	W	WASTE
BFP	BACKFLOW PREVENTER	FCO	FLOOR CLEANOUT	OD	OUTSIDE DIAMETER	W	WITH
BHP	BRAKE HORSEPOWER	FD#	FLOOR DRAIN TAG	OED	OPEN ENDED DUCT	WB	WET BULB TEMPERATURE, °F
BLDG	BUILDING	FD	FIRE DAMPER	P#	PLUMBING FIXTURE TAG	WCO	WALL CLEANOUT
BOD	BOTTOM OF DUCT	FIN	FINISH	PD	PUMPED DISCHARGE	WH	WATER HEATER
B.T.U.	BRITISH THERMAL UNIT	FL	FLOOR	PRS	PRESSURE REDUCING STATION	WHYD	WALL HYDRANT
C. CONV.	CONVECTOR	FTG	FOOTING	PRV	PRESSURE REDUCING VALVE	NTS	NOT TO SCALE
COW	COUNTER CLOCKWISE	FTR	FINNED TUBE RADIATION	RA	RETURN AIR	Ø	DIAMETER
COF	CAPPED FOR FUTURE	FS	FLOW SWITCH	RD	ROOF DRAIN	@	AT
CFM	CUBIC FEET PER MINUTE	FM	FORCE MAIN	REC	RECOMMENDATION	&	AND
CLG	CEILING	GC	GENERAL CONTRACTOR	REG	REGULAR	%	PERCENT
CO	CLEANOUT	GP	GALLONS PER MINUTE	RF	RETURN FAN		
CM	CONSTRUCTION MANAGER	GV	GALVANIZED VENTILATOR	RG	RETURN GRILLE		
CNTR	COUNTER, COUNTERTOP	H	HUMIDIFIER	RHC	REHEAT COIL		
CONN	CONNECT, CONNECTION	HB	HOSE BIB	RM	ROOM		
CONT	CONTINUE, CONTINUATION	HC, HDC	HANDICAP ACCESS	RPZ	REDUCED PRESSURE BFP		
COORD	COORDINATE	HGT, HT.	HEIGHT	RR	RETURN REGISTER		
CORR	CORRIDOR	HP	HEAT PUMP	RV	RELIEF VALVE		
CR	CHEMICAL RESISTING	HRTU	HEAT RECOVERY UNIT	S	SUPPLY AIR		
CT	COOLING TOWER	HTR	HEATER	SA**	SHOCK ABSORBER OF PDI SIZE (**)		
CTE	CONNECT TO EXISTING	H & V	HEATING AND VENTILATION	AS INDICATED	AS INDICATED		
CTR	CENTER	HVAC	HEATING, VENTILATING, & AIR COND.	SCV	SELF CONTAINED VALVE		
CTRLN	CENTERLINE	HW	HOT WATER	SD	SMOKE DAMPER		
CU	COPPER	HWR	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	INWG	INCHES WATER GAUGE	SPLR	SPRINKLER		
DF	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		
DW	DOWN IN WALL	LE#	SCIENCE LAB EQUIPMENT NUMBER	TOD	TOP OF DUCT		

**A4** ABBREVIATIONS

NONE

**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.

**REVISIONS**

NO.	DATE	DESCRIPTION

Date: 2/24/16  
 Drawn By: RS/WPS  
 Checked By: WPS  
 Project Mgr: Wes Sims  
 Project No: 1533  
 Civil File: 150804DWG

**PLUMBING AND HVAC ABBREVIATIONS AND LEGENDS**

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