



PDT JOB NO.
13-096

DRAWN
REW / SGH

SCALE
AS NOTED

ISSUE: 2 Oct 2014
PERMIT SET

TITLE
MECHANICAL
NOTES, LEGENDS &
ABBREVIATIONS

SHEET

M100

	PIPE ELBOW TURNED DN		GLOBE VALVE		STEAM TRAP (FLOAT & THERMOSTATIC INDICATED T.T. = THERMOSTATIC TRAP, B.T. = BUCKET TRAP)		EXPANSION LOOP		CHANGE IN ELEVATION (UP/DOWN, RISE OR DROP)		MOTORIZED DAMPER		R, G & D TAG DIFFUSER, REGISTER OR GRILLE No. QUANTITY CFM AIR FLOW
	PIPE ELBOW TURNED UP		LOCKABLE BALL VALVE		PUMP - POINT OF TRIANGLE INDICATES DIRECTION OF FLOW		FLOOR DRAIN		SUPPLY DUCT TURNED UP/DN		FLEXIBLE CONNECTION		TEMPERATURE SENSOR OR THERMOSTAT (AS SPECIFIED)
	PIPING TEE DOWN		PLUG VALVE		GAS SHUT-OFF VALVE		SHOCK ABSORBER (WATER HAMMER ARRESTER)		RETURN DUCT TURNED UP/DN		HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED)		HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED)
	PIPING TEE UP		2-WAY CONTROL VALVE		HOSE END DRAIN VALVE W/CAP		FIRE DEPARTMENT CONNECTION		EXHAUST DUCT TURNED UP/DN		CARBON DIOXIDE SENSOR		CARBON MONOXIDE SENSOR
	PIPE RISER		3-WAY CONTROL VALVE		TEMPERATURE/PRESSURE TAP (PETE'S PLUG)		FREE STANDING FIRE DEPARTMENT CONNECTION		ROUND DUCT TURNED UP/DN		ACCESS PANEL		EQUIPMENT TAG TYPE DESIGNATOR NUMBER
	45° ELBOW DOWN		LOCK & SHIELD VALVE		THERMOMETER WITH COCK		WATER GONG		MITERED DUCT ELBOW WITH TURNING VANES		DUCT SMOKE DETECTOR		ROOFTOP EXHAUST FAN
	PIPING TO BE REMOVED		CHECK VALVE		SOLENOID VALVE		DUCTWORK - FIRST DIMENSION IS SIDE SHOWN IN INCHES S= SUPPLY, R= RETURN, E= EXHAUST, OA= OUTSIDE AIR, F.O. = FLAT OVAL		RADIUS DUCT ELBOW		ROOFTOP SUPPLY FAN		EQUIPMENT TAG (ON FLOOR/ROOF ABOVE) TYPE DESIGNATOR NUMBER
	CAPPED PIPING		BALANCING VALVE (CIRCUIT SETTER)		ORIFICE FLOWMETER		ACOUSTICAL LINING (DUCT DIMENSION FOR NET FREE AREA)		DUCT/PIPE CAP (SINGLE/DOUBLE LINE)		CEILING DIFFUSER - 4-WAY BLOW		CEILING DIFFUSER - 3-WAY BLOW
	CAPPED BELOW FINISHED FLOOR		EXPANSION VALVE (AUTOMATIC)		HUMIDIFIER (DUCT/AHU MOUNTED)		DUCTWORK TO BE REMOVED		VOLUME DAMPER		CEILING DIFFUSER - 2-WAY BLOW		CEILING DIFFUSER - CORNER BLOW
	CONCENTRIC REDUCER		RELIEF/SAFETY VALVE		FINNED TUBE BASEBOARD		SINGLE LINE DUCTWORK TO BE REMOVED		FIRE DAMPER		CEILING DIFFUSER - CORNER BLOW		CEILING RETURN GRILLE
	ECCENTRIC REDUCER		PRESSURE GAUGE WITH COCK		HOSE BIB/WALL HYDRANT		DUCT TRANSITION		SMOKE DAMPER		CEILING RETURN GRILLE		CEILING EXHAUST GRILLE
	DIRECTION OF FLOW		SIGHT GLASS		FLOOR CLEANOUT		SQUARE TO ROUND TRANSITION		FIRE AND SMOKE DAMPER		POINT OF CONNECTION EXISTING TO NEW		DIRECTION OF AIR FLOW
	PIPE GUIDE		PRESSURE REDUCING VALVE		FUSIBLE LINK VALVE		FLEX DUCT - DOUBLE LINE		BACKDRAFT DAMPER				
	EXPANSION JOINT		FLOW SWITCH		WALL CLEANOUT		FLEX DUCT - SINGLE LINE						
	PIPE ANCHOR		SELF-CONTAINED TEMP CONTROL VALVE WITH REMOTE SENSOR		AQUASTAT								
	UNION												
	FLANGED CONNECTION												
	BACKFLOW PREVENTER												
	FLEXIBLE CONNECTION												
	SHUT-OFF/ISOLATION VALVE REFER TO SPECIFICATIONS												
	GATE VALVE - OUTSIDE SCREW & YOKE (OS&Y)												

E1 SYMBOLS LEGEND

NONE													
	AW	ACID WASTE	LPR	LOW-PRESSURE CONDENSATE	AAV	AUTOMATIC AIR VENT	DN	DOWN	LP	LIQUID PETROLEUM GAS	TOD	TOP OF DUCT	
	ATV	AIR RELIEF	LPS	LOW-PRESSURE STEAM	AC	ABOVE CEILING	DS	DOWNSPOUT	LPR	LOW PRESSURE STEAM RETURN	TP	TRAP PRIMER	
	BBD	BOILER BLOWDOWN	MA	MEDICAL AIR	ACC	AIR COOLED CONDENSER	DT	DROP AND TRANSITION	LPS	LOW PRESSURE STEAM SUPPLY	TSP	TOTAL STATIC PRESSURE	
	C	CONDENSATE (HVAC DRAIN PAN)	MPR	MEDIUM-PRESSURE CONDENSATE	ACU	AIR CONDITIONING UNIT	DV	DRAIN VALVE	MAX	MAXIMUM	TTS	TIGHT TO STEEL	
	C	CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)	MPS	MEDIUM-PRESSURE STEAM	ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	MBH	1000 BTU/HR.	TV	TURNING VANE	
	CA	COMPRESSED AIR	MU	MAKEUP WATER	AD	ACCESS DOOR	EA	EXHAUST AIR	MFR	MANUFACTURER	TW	TEMPERED WATER	
	CHWR	CHILLED WATER RETURN	N2	NITROGEN	AE	ACID EXHAUST	EF	EXHAUST FAN	MIN	MINIMUM	TYP	TYPICAL	
	CHWS	CHILLED WATER SUPPLY	NG	NATURAL GAS	AW	ACID WASTE	EG	EXHAUST GRILLE	MOD	MOTOR OPERATED DAMPER	UH	UNIT HEATER	
	CWS	CONDENSER WATER SUPPLY	NO	NITROUS OXIDE	AFF, A.F.F.	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MPG	MEDIUM PRESSURE GAS	UIC	UP IN CHASE	
	CWR	CONDENSER WATER RETURN	NPW	NON-POTABLE WATER	AHU	AIR HANDLING UNIT	ELONG	ELONGATE	MPV	MULTI-PURPOSE VALVE	UUP	UP IN WALL	
	DCW	DOMESTIC COLD WATER	OX	OXYGEN	AP	ACCESS PANEL	ENC	ENCLOSURE	MTD	MOUNTED	UV	UNIT VENTILATOR	
	DHW	DOMESTIC HOT WATER	PC	PUMPED CONDENSATE	APPROX	APPROXIMATE; APPROXIMATELY	ER	EXHAUST REGISTER	MTG	MOUNTING	V	VENT	
	DW	DOMESTIC WATER RECIRC.	PCWR	PROCESSED COLD WATER RETURN	APMR	AS PER MFR'S RECOMMENDATIONS	ESP	EXTERNAL STATIC PRESSURE	N.C.	NORMALLY CLOSED	VAC	VACUUM	
	D	DRAIN	POW	PROCESSED COLD WATER SUPPLY	ATC	AUTOMATIC TEMPERATURE CONTROL	ET	EXPANSION TANK	N.O.	NORMALLY OPEN	VB	VACUUM BREAKER	
	FM	PUMP FORCE MAIN	POWS	PROCESSED COLD WATER SUPPLY	AV	AIR VENT	(E)	EXISTING	NIC	NOT IN CONTRACT	VCCF	VALVE & CAP FOR FUTURE	
	FOF	FUEL OIL FILL	RD	REFRIGERANT DISCHARGE	BC	BALANCING COCK	F & T	FLOAT AND THERMOSTATIC	NPT	NATIONAL PIPE THREAD	VD	VOLUME DAMPER - MANUAL	
	FOR	FUEL OIL RETURN	RL	REFRIGERANT LIQUID	BDD	BACKDRAFT DAMPER	FBO	FURNISHED BY OTHERS	NTS	NOT TO SCALE	VLV	VALVE	
	FOS	FUEL OIL SUPPLY	RS	REFRIGERANT SUCTION	BG	BLAST GATE	FBP	FACE AND BYPASS	OA	OUTSIDE AIR	VS	VENT STACK	
	FOV	FUEL OIL TANK VENT	RW	RAIN WATER ABOVE FLOOR	BF	BARRIER FREE	FC	FLEXIBLE CONNECTION	OB	OPPOSED BLADE DAMPER	VTR	VENT THROUGH ROOF	
	FW	FEEDWATER	RWB	RAIN WATER BELOW GRADE	BFP	BACKFLOW PREVENTER	FCO	FLOOR CLEANOUT	OD	OUTSIDE DIAMETER	W	WASTE	
	GR	GLYCOL RETURN	RV	RAIN WATER ABOVE GRADE	BHP	BRAKE HORSEPOWER	FD#	FLOOR DRAIN TAG	OED	OPEN ENDED DUCT	W	WITH	
	GS	GLYCOL SUPPLY	SV	SANITARY SOIL WASTE (ABOVE FLOOR)	BLDG	BUILDING	FD	FIRE DAMPER	P#	PLUMBING FIXTURE TAG	WB	WET BULB TEMPERATURE, °F	
	H	HUMIDIFICATION LINE	SW	SANITARY SOIL WASTE (BELOW FLOOR)	BOD	BOTTOM OF DUCT	FIN	FINISH	PD	PUMPED DISCHARGE	WCO	WALL CLEANOUT	
	H2	HYDROGEN GAS	SWR	SANITARY SOIL WASTE (BELOW FLOOR)	B.T.U.	BRITISH THERMAL UNIT	FL	FLOOR	PRS	PRESSURE REDUCING STATION	WH	WATER HEATER	
	HPWR	HEAT PUMP WATER RETURN	TP	TRAP PRIMER PIPING ABOVE GRADE	C, CONV.	CONVECTOR	FTG	FOOTING	PRV	PRESSURE REDUCING VALVE	WHYD	WALL HYDRANT	
	HPWS	HEAT PUMP WATER SUPPLY	TP	TRAP PRIMER PIPING BELOW GRADE	CCW	COUNTER CLOCKWISE	FTR	FINNED TUBE RADIATION	RA	RETURN AIR	NTS	NOT TO SCALE	
	HPC	HIGH-PRESSURE CONDENSATE	TWR	TEMPERED RETURN WATER	CFF	CAPPED FOR FUTURE	FS	FLOW SWITCH	RD	ROOF DRAIN	Ø	DIAMETER	
	HPS	HIGH-PRESSURE STEAM	TWS	TEMPERED SUPPLY WATER	CFM	CUBIC FEET PER MINUTE	FM	FORCE MAIN	REC	RECOMMENDATION	@	AT	
	HTWR	HIGH-TEMP. HOT WATER RETURN	VAC	VACUUM (AIR)	CLG	CEILING	GC	GENERAL CONTRACTOR	REG	REGULAR	&	AND	
	HWR	HOT WATER RETURN	VPD	VACUUM PUMP DISCHARGE	CLG	CEILING	GPM	GALLONS PER MINUTE	RF	RETURN FAN	%	PERCENT	
	HWS	HOT WATER SUPPLY			CO	CLEANOUT	GV	GRAVITY VENTILATOR	RG	RETURN GRILLE			
	IND	INDUSTRIAL WASTE			CM	CONSTRUCTION MANAGER	H	HUMIDIFIER	RHC	REHEAT COIL			
	IW	INDIRECT WASTE			CNTR	COUNTER; COUNTERTOP	HB	HOSE BIB	RM	ROOM			
	LN	LIQUID NITROGEN			CONN	CONNECT; CONNECTION	HDC	HANDICAP ACCESS	RPZ	REDUCED PRESSURE BFP			
	LOX	LIQUID OXYGEN			CONT	CONTINUE; CONTINUATION	HGT, HT,	HEIGHT	RR	RETURN REGISTER			
	LPC	LOW-PRESSURE CONDENSATE			COORD	COORDINATE	HP	HEAT PUMP	RV	RELIEF VALVE			
	LP	LIQUID PETROLEUM GAS			CORR	CORRIDOR	HRU	HEAT RECOVERY UNIT	RW	RAIN WATER			
					CR	CHEMICAL RESISTING	HTR	HEATER	S	SUPPLY AIR			
					CT	COOLING TOWER	H & V	HEATING AND VENTILATION	SA,**	SHOCK ABSORBER OF PDI SIZE ("") AS INDICATED			
					CTE	CONNECT TO EXISTING	HVAC	HEATING, VENTILATING, & AIR COND.	SCV	SELF CONTAINED VALVE			
					CTR	CENTER	HW	HOT WATER	SD	SMOKE DAMPER			
					CTRNLN	CENTERLINE	HWR	HOT WATER RETURN	SF	SUPPLY FAN			
					CU	COPPER	HWS	HOT WATER SUPPLY	SG	SUPPLY GRILLE			
					CUH	CABINET UNIT HEATER	HX	HEAT EXCHANGER	SGL	SINGLE			
					C.V.	CONTROL VALVE	ID	INSIDE DIAMETER	SHT	SHEET			
					CW	COLD WATER/CLOCKWISE	IN WG	INCHES WATER GAUGE	SPLR	SPRINKLER			
					DB	DRY BULB TEMPERATURE, °F	INCL	INCLUDING	SR	SUPPLY REGISTER			
					DC	DOUBLE CONTAINED	INV EL	INVERT ELEVATION	S/O	SHUT OFF			
					DDC	DIRECT DIGITAL CONTROL	IPS	IRON PIPE SIZE	S.S.	STAINLESS STEEL			
					DET	DETAIL	KE#	KITCHEN EQUIPMENT NUMBER	TD	TRENCH DRAIN			
					DIA	DIAMETER	LD	LINEAR DIFFUSER	TG	TRANSFER GRILLE			
					DIC	DOWN IN CHASE	LE#	SCIENCE LAB EQUIPMENT NUMBER					
					DIW	DOWN IN WALL							

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													
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A4 ABBREVIATIONS

NONE													
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A9 GENERAL NOTES

NONE													
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