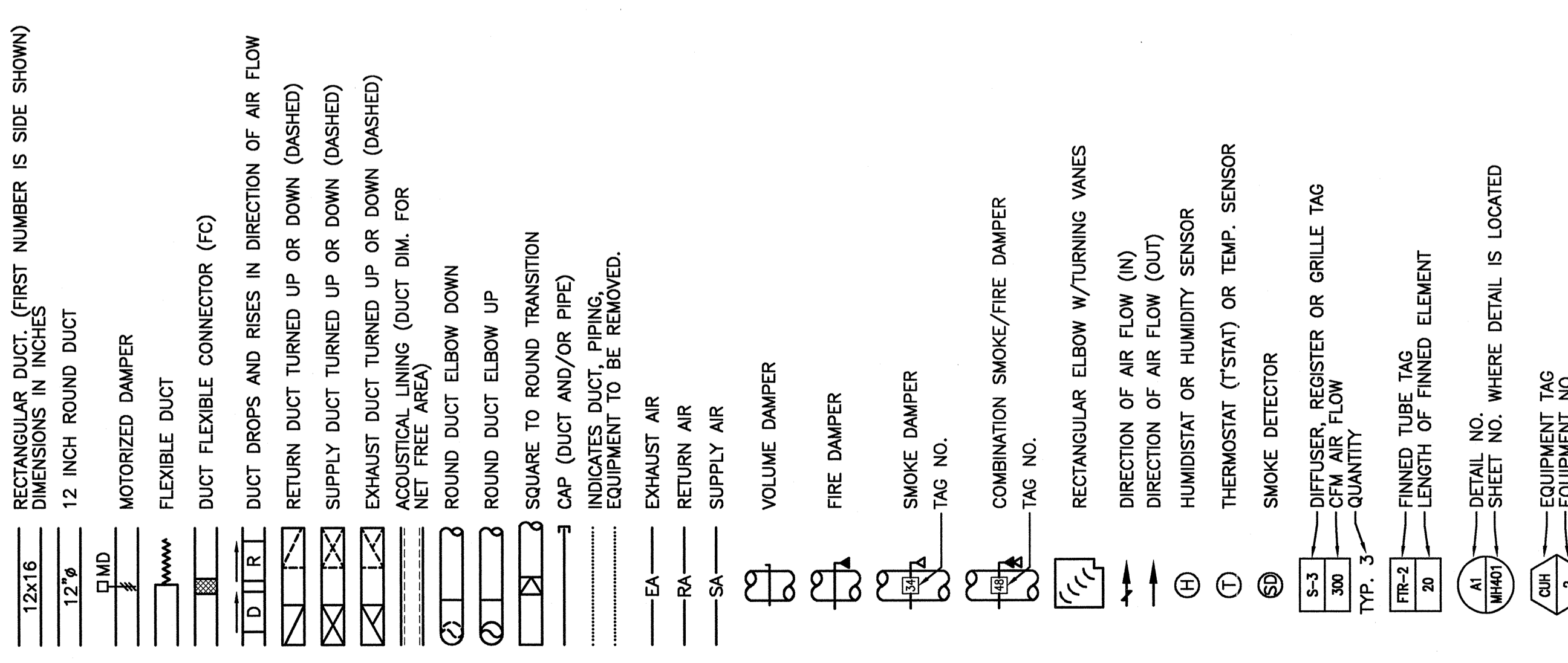
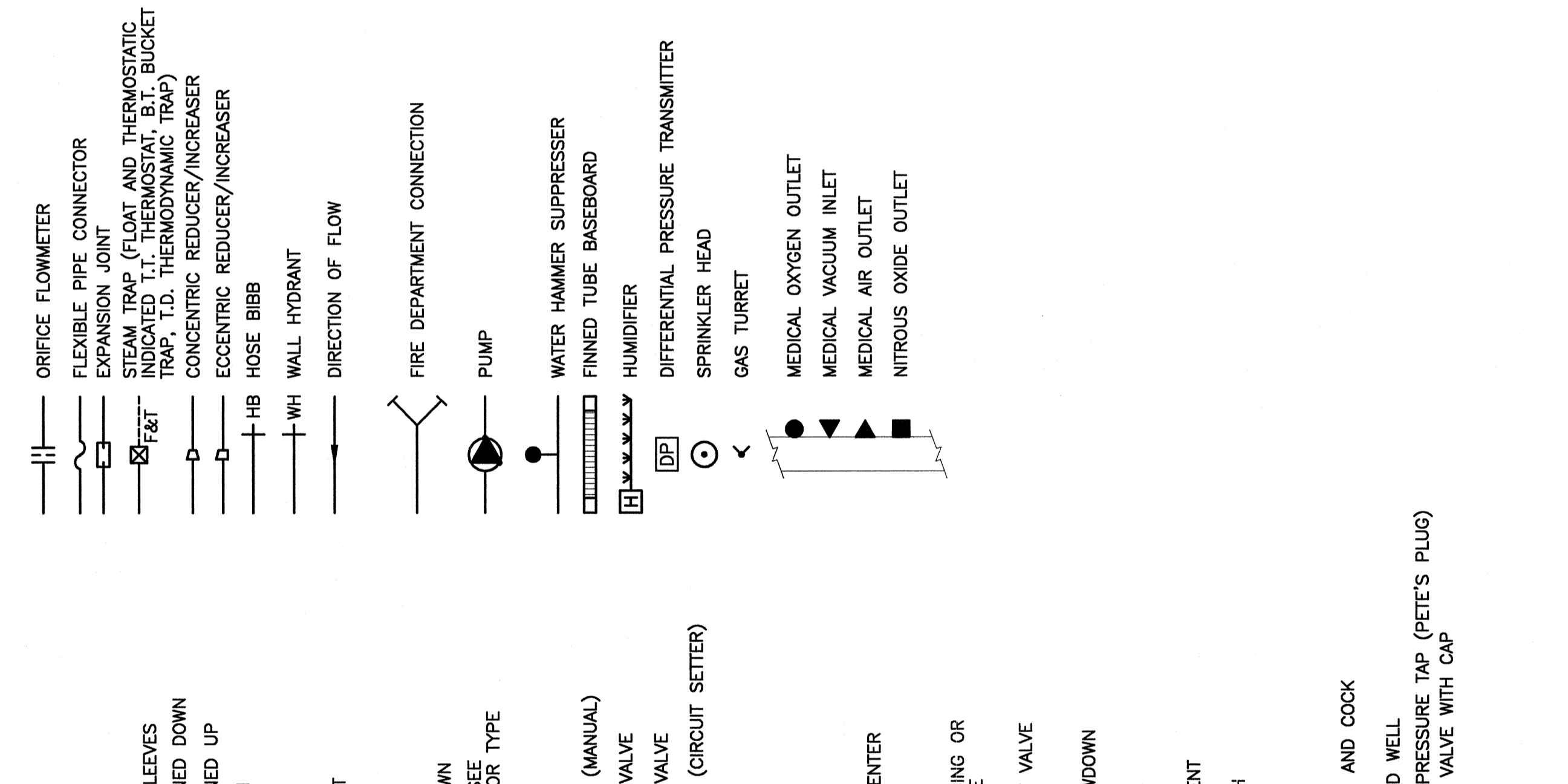


AIR DISTRIBUTION SYMBOLS



PIPING SYMBOLS



ABBREVIATIONS

AV	AUTOMATIC AIR VENT	EA	EXHAUST AIR
ACC	AIR COOLED CONDENSER	EF	EXHAUST FAN
ACU	AIR CONDITIONING UNIT	ENC	ENCLOSURE
AD	ACCESS DOOR	ER	EXHAUST REGISTER
AE	ACID EXHAUST	(E)	EXISTING
AF	ABOVE FINISHED FLOOR	EXIST.	EXISTING
AFMS	AIR FLOW MEASURING STATION	FBO	FURNISHED BY OWNER
AHU	AIR HANDLING UNIT	FACE	FACE AND BYPASS
ATC	AUTOMATIC TEMPERATURE CONTROL	FCO	FLOOR CLEANOUT
AV	AIR VENT	FD-#	FLOOR DRAIN TAG
BA	BREATHING COMPRESSED AIR	FB	FIRE DAMPER
BB	BASEBOARD	FG	FIBERGLASS
BDD	BACKDRAFT DAMPER	F & T	FLOAT AND THERMOSTATIC
BF	BLAST GATE	FO	FLAT OVAL
BPG	BACKFLOW PREVENTER	FRHB	FREEZE RESISTANT HOSE BIBB
BLDG	BUILDING	FTR	FINNED TUBE RADIATION
BOD	BOTTOM OF DUCT	FS	FLOW SWITCH
BOT	BOTTOM OF PIPE	GC	GENERAL CONTRACTOR
BTU	BRITISH THERMAL UNIT	GRM	GALLONS PER MINUTE
CB	COUNTER BALANCED DAMPER	H	HUMIDIFIER
CD	CEILING DIFFUSER	HB	HOSE BIB
CF	CAPPED FOR FUTURE	HRU	HEAT RECOVERY UNIT
CFM	CUBIC FEET PER MINUTE	HTR	HEATER
CLG	CEILING	H & V	HEATING AND VENTILATION
CO	CLEANOUT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
CONT	CONTINUATION	HW	HOT WATER
COORD	COORDINATE	HX	HEAT EXCHANGER
CP	CONDENSATE PUMP & RECEIVER	IN WG	INCHES WATER GAUGE
CT	CONNECT TO EXISTING	LD	LINED DUCT
CTE	CONNECT TO EXISTING	MAU	MAKE UP AIR UNIT
CU	COPPER	MAX	MAXIMUM
CUH	CABINET UNIT HEATER	MBH	1000 BTU/HR.
CV	CONTROL VALVE	ME	MECHANICAL ENGINEER
CW	COLD WATER	MFR	MANUFACTURER
CW-P	CITY WATER-PROCESS	MIN	MINIMUM
DC	DOUBLE CONTAINED	MD	MOTOR OPERATED DAMPER
DDC	DIRECT DIGITAL CONTROL	MPV	MULTI-PURPOSE VALVE
DIA	DIAMETER	MTD	MOUNTED
DIC	DOWN IN CHASE	MUA	MAKE UP AIR
DIW	DOWN IN WALL	NPW	NON-POTABLE WATER
DN	DOWN	NTS	NOT TO SCALE
DS	DOWNSPOUT	OA	OUTSIDE AIR
DT	DROP AND TRANSITION	OB	OPPOSED BLADE DAMPER
DWG	DRAWING	OED	OPEN ENDED DUCT
DWH	DOMESTIC WATER HEATER	P-#	PLUMBING FIXTURE TAG
		PEA	ALKALI EXHAUST
		PEH	HEAT EXHAUST

PIPING SYSTEMS

HCV	HOUSE CLEAN VACUUM	PW	POTABLE WATER
HG	HOT GAS	R	RELIEF LINE
HPS	HIGH PRESSURE STEAM	RL	REFRIGERANT LIQUID
HRP	HIGH PRESSURE CONDENSATE RETURN	RS	REFRIGERANT SUCTION
HWS	HOT WATER SUPPLY	SLD	MIXED SOLVENT DRAIN
HWR	HOT WATER RETURN	SV	SOLVENT
HO	ISOPROPYL ALCOHOL DRAIN	SP	SPRINKLER
LD	LIQUID PROPANE GAS	TWS	TEMPERED CHILLED WATER SUPPLY
LP	LIQUID PROPANE GAS	TWR	TEMPERED CHILLED WATER RETURN
HP	HIGH PRESSURE LIQUID PROPANE GAS	VAC	PLANT VACUUM
LPS	LOW PRESSURE STEAM	ZB	ZONE VALVE BOX
LPR	LOW PRESSURE RETURN	TEMP	DOMESTIC HOT WATER (TEMP. °F)
MA	MEDICAL AIR	TEMP	RECIRC. DOMESTIC HOT WATER (TEMP. °F)
MPS	MEDIUM PRESSURE STEAM	CW	DOMESTIC COLD WATER
MPR	MEDIUM PRESSURE RETURN	HW	DOMESTIC HOT WATER
MY	MEDICAL VACUUM	RCW	RECYCLED DOMESTIC HOT WATER
N2NP	NON-PROCESS NITROGEN	S, W or KW	SANITARY, WASTE & KW KITCHEN WASTE
N2	PROCESS NITROGEN	S, W or KW	SANITARY, WASTE & KW KITCHEN WASTE (EXIST.)
NG	NATURAL GAS	S, W or KW	SANITARY, WASTE & KW KITCHEN WASTE (BELOW SLAB)
HNG	HIGH PRESSURE NATURAL GAS	S, W or KW	SANITARY, WASTE & KW KITCHEN WASTE (BELOW SLAB-EXIST.)
NO2	NITROUS OXIDE	SD	STORM DRAIN
NEG. SOLV.	NEGATIVE SOLVENT DRAIN	SD	STORM DRAIN (EXIST.)
NPW	NON POTABLE COLD WATER	SD	STORM DRAIN (BELOW SLAB)
O2	OXYGEN	SD	STORM DRAIN (BELOW SLAB-EXIST.)
OFA	OIL FREE COMPRESSED AIR	SD	STORM DRAIN (BELOW SLAB-EXIST.)
POW	PROCESS COOLING WATER RETURN	V	SANITARY VENT
PC	PUMPED STEAM CONDENSATE	V	SANITARY VENT (EXIST.)
PD	PUMPED DISCHARGE	V	SANITARY VENT (BELOW SLAB)
POS. SOLV.	POSITIVE SOLVENT DRAIN	V	SANITARY VENT (BELOW SLAB-EXIST.)

GENERAL NOTE

1. ALL GENERAL NOTES, SYMBOL LISTS AND DETAILS ARE TO BE USED IN CONJUNCTION WITH ALL 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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