

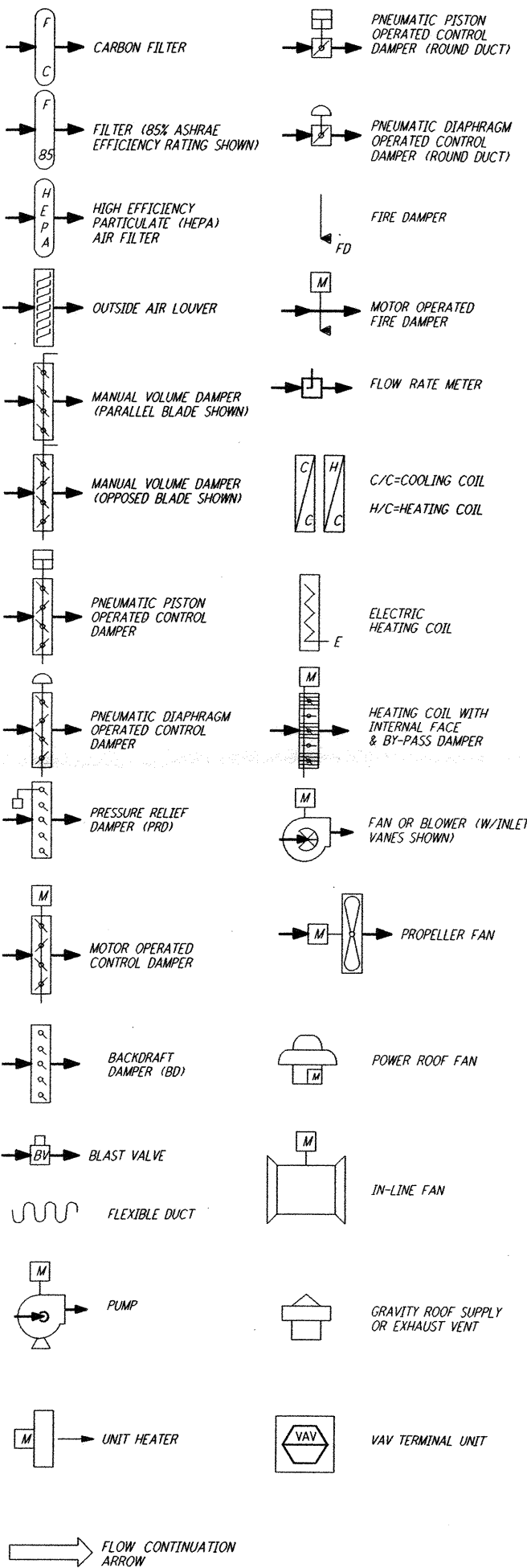
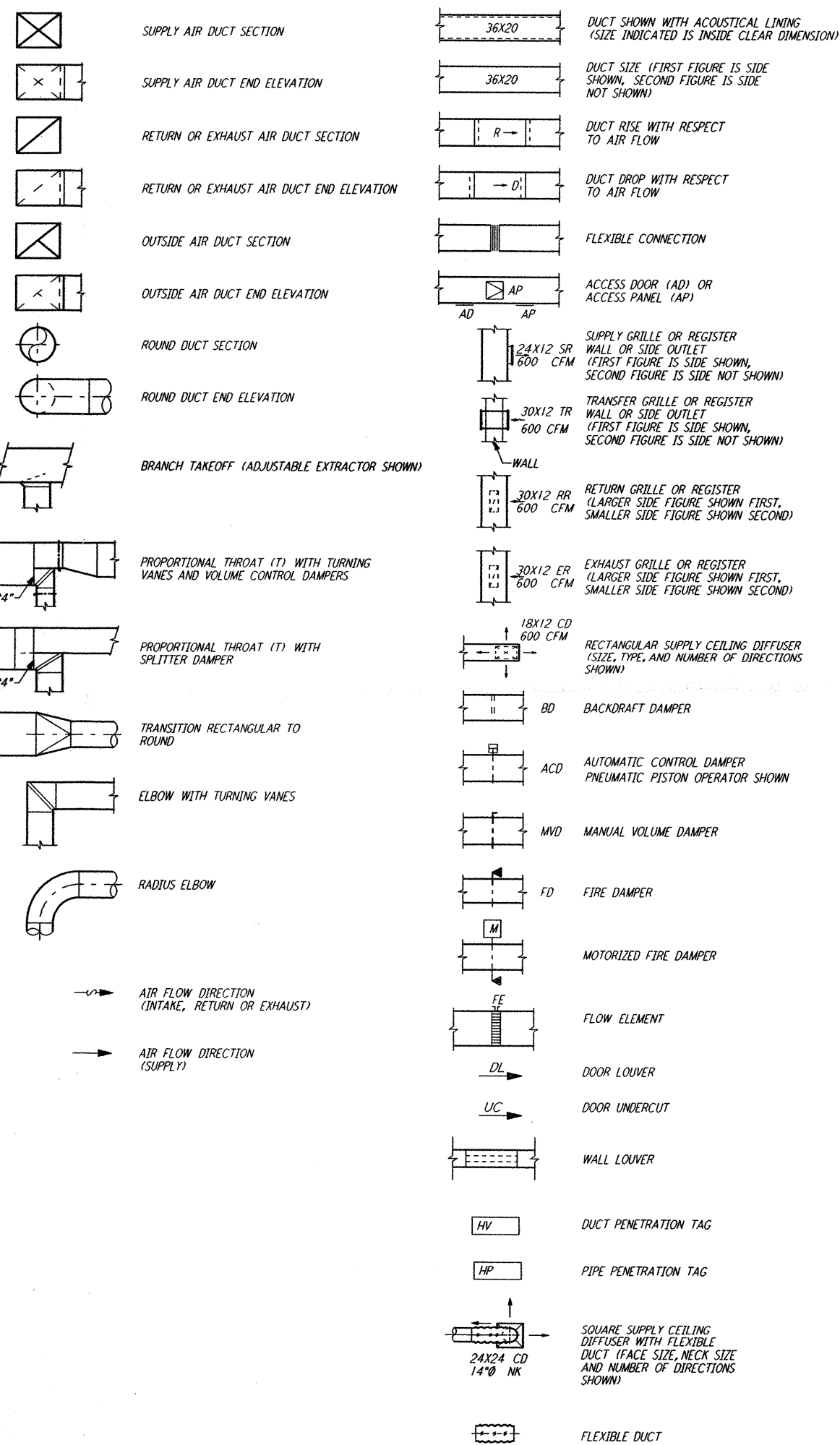
HEATING, VENTILATING AND AIR CONDITIONING LEGEND, SYMBOLS AND ABBREVIATIONS

DOUBLE LINE

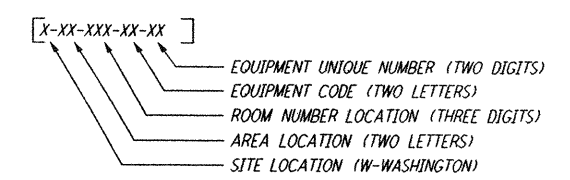
SINGLE LINE

ABBREVIATIONS

EQUIPMENT IDENTIFICATION



ABBREV	WORD OR TERM	ABBREV	WORD OR TERM
ABV	ABOVE	IN (")	INCH
AC	AIR CONDITIONING	INSTR	INSTRUMENT
ACFM	ACTUAL CUBIC FEET PER MINUTE	INSUL	INSULATION
ACH	AIR CHANGES/HR	IN W	INCHES WATER COLUMN
AFMS	AIR FLOW MEASURING STATION	IN WG	INCHES WATER GAUGE
AI	ANALOG IN	KW	KILOWATT
AO	ANALOG OUT	L	LONG
APPROX	APPROXIMATE	LB	POUND
ARCH	ARCHITECTURAL	LG	LEVEL GAUGE
ATM	ATMOSPHERE	LGTH	LENGTH
AUTO	AUTOMATIC	LRA	LOCKED ROTOR AMPERES
BD	BACKDRAFT DAMPER	LVG	LEAVING
BEL	BELOW	MAX	MAXIMUM
BF	BOTTOM FLAT	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
BHP	BRAKE HORSEPOWER	MCC	MOTOR CONTROL CENTER
BLDG	BUILDING	MCH	MECHANICAL
BOD	BOTTOM OF DUCT	MFR	MANUFACTURER
BOG	BOTTOM OF GRILLE	MIN	MINIMUM
BOL	BOTTOM OF LOUVER	MNT	MOUNTED
BOP	BOTTOM OF PIPE	MNG	MOUNTING
BOR	BOTTOM OF REGISTER	MTR	MOTOR
BOT	BOTTOM	NC	NORMALLY CLOSED
BOU	BOTTOM OF UNIT	NEG	NEGATIVE
BTUH	BRITISH THERMAL UNITS PER HOUR	NI	NOT IN CONTRACT
CL	CENTER LINE	NO	NORMALLY OPEN
C	DEGREES CENTIGRADE	NO. (*)	NUMBER
CAP	CAPACITY	NTS	NOT TO SCALE
CCMS	CENTRAL CONTROL MONITORING SYSTEM	OA	OUTSIDE AIR
CCW	COUNTERFLOW	OBD	OPPOSED BLADE DAMPER
CD	CEILING DIFFUSER	OC	ON CENTER
CFH	CUBIC FEET PER HOUR	OD	OUTSIDE DIAMETER
CFM	CUBIC FEET PER MINUTE	ODP	OPEN DRIP PROOF
CG	CEILING GRILLE	OPR	OPERATING / OPERATOR
CHR	CHILLED WATER RETURN	OPNG	OPENING
CHS	CHILLED WATER SUPPLY	PD	PRESSURE DROP
CLG	CEILING	PENET	PENETRATIONS
CONFL	COLUMN	PF	PREFILTER
CONC	CONCRETE	PH	PHASE
COND	CONDENSATE	PL	PLATE
CONN	CONNECTION	PNEU	PNEUMATIC
CONT	CONTINUATION	PNL	PANEL
CR	CEILING REGISTER/CONDENSATE RETURN	POS	POINT OF CONNECTION
CS	CARBON STEEL (GALVANIZED)	POS	POSITIVE
CW	CLOCKWISE	PRESS	PRESSURE
CWR	CONDENSER WATER RETURN	PSIG	POUNDS PER SQUARE INCH GAUGE
CWS	CONDENSER WATER SUPPLY	PSID	PRESSURE DIFFERENTIAL
D	DRAIN	QTY	QUANTITY
DA	DIRECT ACTING	R	ROWS
DDC	DIRECT DIGITAL CONTROL	RA	RETURN AIR
DDCP	DIRECT DIGITAL CONTROL PANEL	RD	REFRIGERANT DISCHARGE
DET	DETAIL IN	REF	REFERENCE
DI	DIGITAL IN	REG	REGISTER
DISCH	DISCHARGE	REQD	REQUIRED
DN	DOWN	RET	RETURN
DO	DIGITAL OUT	RFGT	REFRIGERANT
DWG	DRAWING	RH	RETURN GRILLE
Ø/DIA	DIAMETER	RHC	RELATIVE HUMIDITY
EA	EACH	RL	REHEAT COIL
EFF	EFFICIENCY	RLA	REFRIGERANT LIQUID
EG	EXHAUST GRILLE	RLA	RATED LOAD AMPERES
EL	ELEVATION	RM	ROOM
ELB	ELBOW	RPM	REVOLUTIONS PER MINUTE
ELECT	ELECTRICAL	RR	RETURN REGISTER
ENT	ENTERING	RS	REFRIGERANT SUCTION
EP	EXPLOSION PROOF	RV	REFRIGERANT VENT
EQUIP	EQUIPMENT	SA	SUPPLY AIR
ER	EXHAUST REGISTER	SCFM	STANDARD CUBIC FEET PER MINUTE
ESP	EXTERNAL STATIC PRESSURE	SCHED	SCHEDULE
EXFIL	EXFILTRATION	SD	SMOKE DETECTOR
EXH	EXHAUST	SEC	SECONDARY
*F	DEGREES FAHRENHEIT	SF	SUPPLY FAN
*F DB	DEGREES FAHRENHEIT, DRY BULB (AIR)	SFT	SUPPLY GRILLE
*F WB	DEGREES FAHRENHEIT, WET BULB (AIR)	SHT	SHEET
FC	FAIL CLOSED	SL	SOUND LINING
FD	FIRE DAMPER	SP	STATIC PRESSURE
FIN	FINISHED	SPEC	SPECIFICATION
FL	FAIL LOCKED	SR	SUPPLY REGISTER
FLA	FULL LOAD AMPERES	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STD	STANDARD
FLG	FLANGE	STM	STEAM
FLR	FLOOR	STRUCT	STRUCTURAL
FLTR	FILTER	SV	SOLENOID VALVE
FO	FAIL OPEN	SW	SWITCH
FP	FIRE PROTECTION	TEFC	TOTALLY ENCLOSED FAN COOLED
FPI	FINS PER INCH	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	TS	TRANSFER
FT	FEET	TC	TOP OF CONCRETE
FT <sup>2</sup>	SQUARE FEET	TOD	TOP OF DUCT
FT <sup>3</sup>	CUBIC FEET	TOS	TOP OF STEEL
FURN	FURNISHED	TR	TRANSFER REGISTER
FWD CRV	FORWARD CURVED	TRANSF	TRANSFER
GA	GAUGE	TSP	TOTAL STATIC PRESSURE
GAL	GALLON	TYP	TYPICAL
GALV	GALVANIZED	UC	UNDERCUT DOOR
GCE	GOVERNMENT FURNISHED EQUIPMENT	UG	UNDERGROUND
GPM	GALLONS PER MINUTE	UN	UNIT VENTILATOR
H	HIGH	V	VENT
HD	HEAD	VEL	VELOCITY
HDR	HEADER	VERT	VERTICAL
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER	VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND/OFF/AUTO	VIV	VARIABLE INLET VANES
HORIZ	HORIZONTAL	W	WIDE
HP	HORSEPOWER	W/	WITH
HR	HOUR	WC	WATER COLUMN
HT	HEIGHT	WG	WATER GAUGE
HTG	HEATING	WN	WELD NECK
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WP	WORKING POINT
HWR	HEATING HOT WATER RETURN	WT	WEIGHT
HWS	HEATING HOT WATER SUPPLY	WTR	WATER
HZ	HERTZ		
ID	INSIDE DIAMETER		
I.E.	THAT IS		



CODE	EQUIPMENT
AC	AIR CONDITIONING UNIT/COMPRESSOR (AIR)
AH	AIR HANDLING UNIT
AS	AIR SEPARATOR (AIR)
AU	AIR COOLED CONDENSING UNIT
B	BOILER
CC	COOLING COIL
CH	CHILLER
CT	COOLING TOWER
CU	CONDENSATE RETURN UNIT
DE	DEHUMIDIFIER
DH	DUCT HEATER
DR	DEAERATOR
DV	VARIABLE AIR VOLUME BOX (DOUBLE DUCT)
EF	EXHAUST FAN
F	FILTER
FC	FAN COIL UNIT
GP	GLYCOL MIX FEED PUMP
H	HUMIDIFIER
HC	HEATING COIL
HE	HEAT EXCHANGER
PF	PRESSURIZATION FAN
RC	COMPRESSOR (REFRIGERATION)
REC	RECEIVER
RF	RETURN FAN
SA	SOUND ATTENUATOR
SF	SUPPLY FAN
SV	VARIABLE AIR VOLUME BOX (SINGLE DUCT)
T	STEAM TRAP
TK	TANK
UH	UNIT HEATER
WP	CIRCULATING WATER PUMP

CODE	SITE LOCATION
W	WASHINGTON

CODE	AREA LOCATION
CS	CORNER STATION
MA	MID STATION "A"
MB	MID STATION "B"
EA	END STATION "A"
EB	END STATION "B"

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LASER INTERFEROMETER  
GRAVITATIONAL-WAVE OBSERVATORY  
SITE NO. 1 - HANFORD, WASHINGTON

SCALE: NONE CONTRACT NUMBER: PPI50969 PROJECT NUMBER: 8094

LEGEND AND ABBREVIATIONS  
WA-H-001

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