

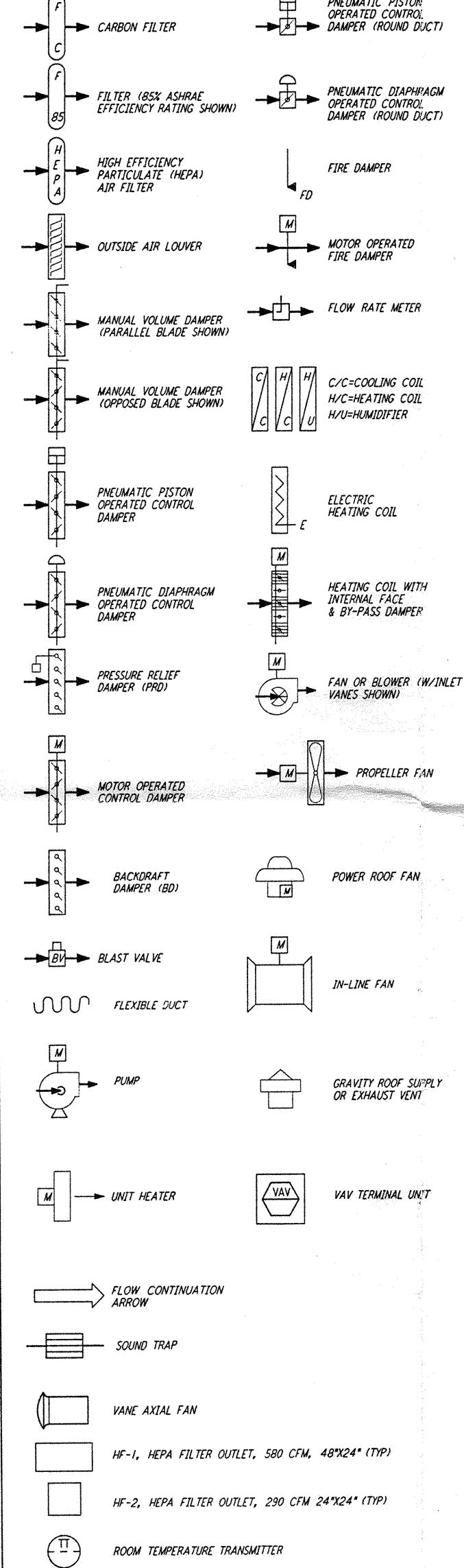
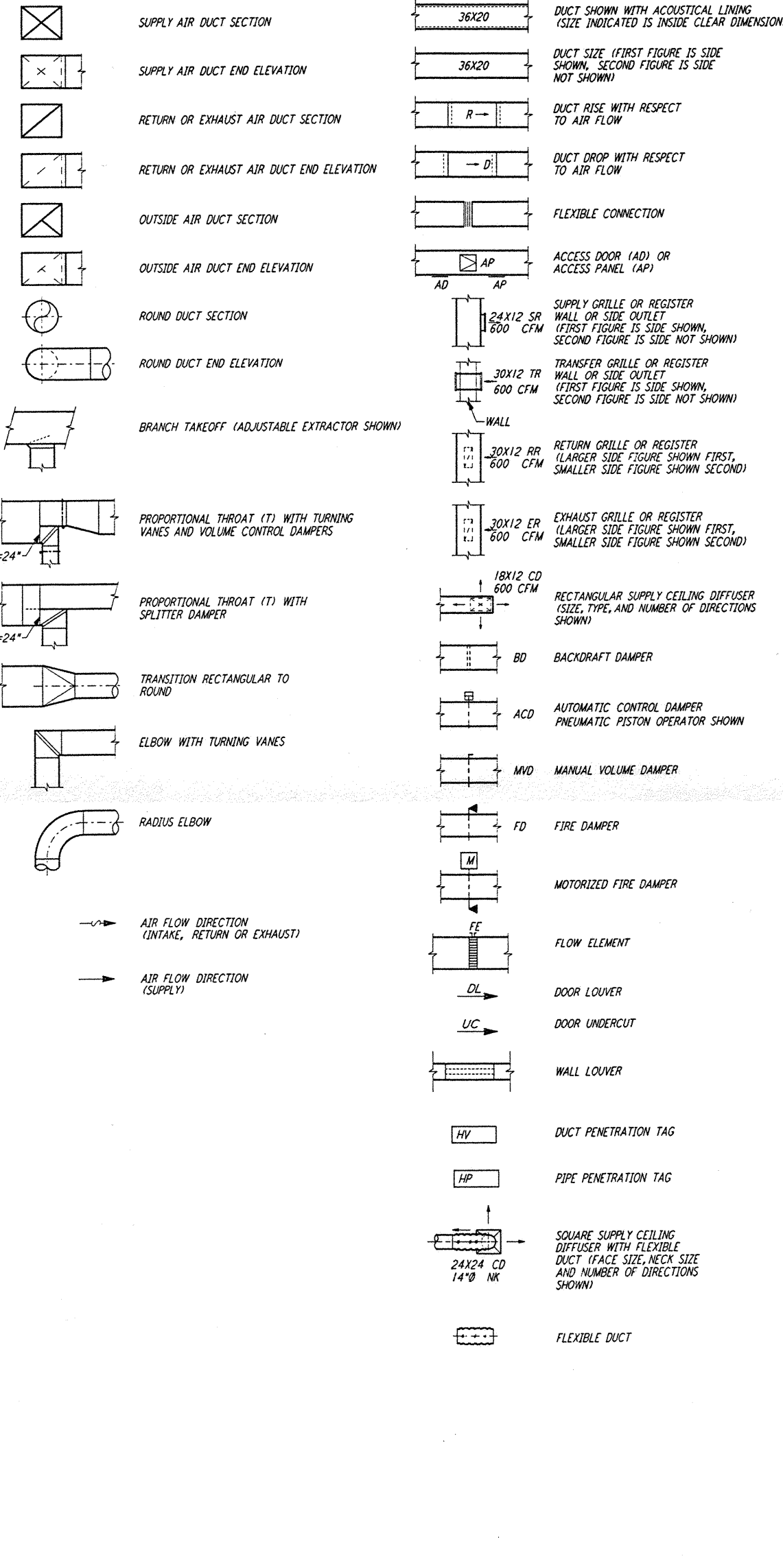
HEATING, VENTILATING AND AIR CONDITIONING LEGEND, SYMBOLS AND ABBREVIATIONS

DOUBLE LINE

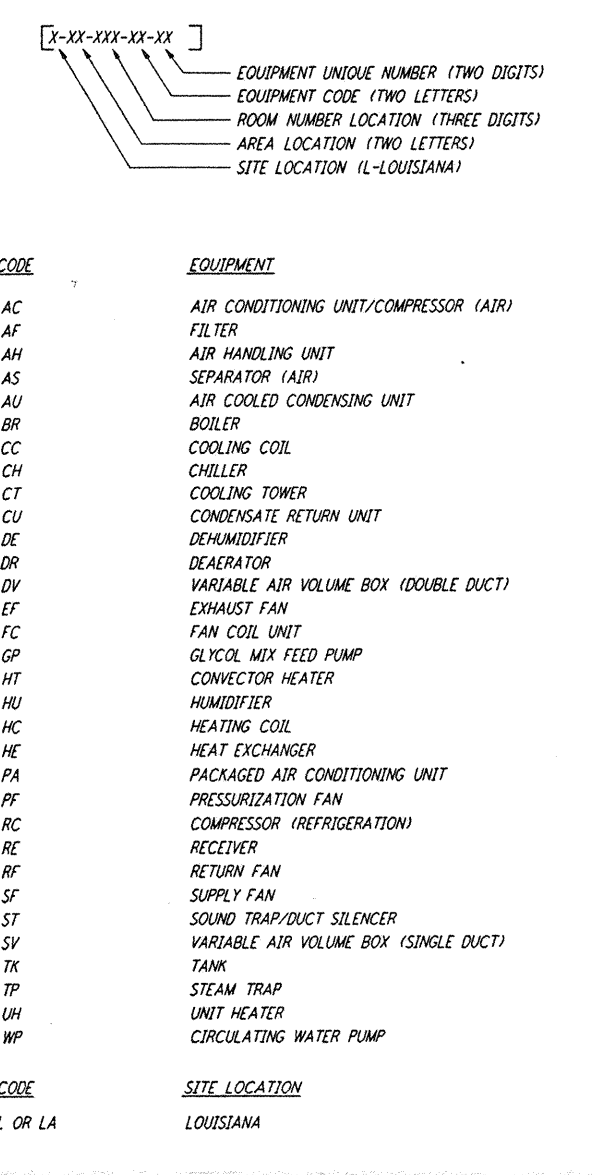
SINGLE LINE

ABBREVIATIONS

EQUIPMENT IDENTIFICATION



ABBREV	WORD OR TERM	ABBREV	WORD OR TERM
ABV	ABOVE	IN (")	INCH
AC	AIR CONDITIONING	INFIL	INFILTRATION
ACFM	ACTUAL CUBIC FEET PER MINUTE	INSTR	INSTRUMENT
ACH	AIR CHANGES/HR	INSUL	INSULATION
AFF	ABOVE FINISHED FLOOR	IN WC	INCHES WATER COLUMN
AFMS	AIR FLOW MEASURING STATION	IN WG	INCHES WATER GAUGE
AI	ANALOG IN	KW	KILOWATT
AO	ANALOG OUT	LB	POUND
APPROX	APPROXIMATE	LG	LEVEL GAUGE
ARCH	ARCHITECTURAL	LGTH	LENGTH
ATM	ATMOSPHERE	LRA	LOCKED ROTOR AMPERES
AUTO	AUTOMATIC	LVS	LEAVING
BD	BACKDRAFT DAMPER	MAIN	MAINTENANCE
BEL	BELOW	MAX	MAXIMUM
BHP	BRAKE HORSEPOWER	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING	MCC	MOTOR CONTROL CENTER
BOD	BOTTOM OF DUCT	MECH	MECHANICAL
BOG	BOTTOM OF GRILLE	MFR	MANUFACTURER
BOL	BOTTOM OF LOUVER	MIN	MINIMUM
BOP	BOTTOM OF PIPE	MTD	MOUNTED
BOR	BOTTOM OF REGISTER	MTC	MOUNTING
BOT	BOTTOM	MTR	MOTOR
BOU	BOTTOM OF UNIT	NC	NORMALLY CLOSED
BTUH	BRITISH THERMAL UNITS PER HOUR	NEG	NEGATIVE
°C	DEGREES CENTIGRADE	NI	NOT IN CONTRACT
C	COMPRESSED AIR	NO	NORMALLY OPEN
CAP	CAPACITY	NO. (*)	NUMBER
CCMS	CENTRAL CONTROL MONITORING SYSTEM	NTS	NOT TO SCALE
CCW	COUNTERCLOCKWISE	OA	OUTSIDE AIR
CD	CEILING DIFFUSER	OD	OPPOSED BLADE DAMPER
CFM	CUBIC FEET PER HOUR	OC	ON CENTER
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CG	CEILING GRILLE	ODP	OPEN DRIP PROOF
CHR	CHILLED WATER RETURN	OPER	OPERATING / OPERATOR
CHS	CHILLED WATER SUPPLY	OPNG	OPENING
CLG	COOLING	ORD	ORDER
CNTQL	CENTRIFUGAL	PD	PRESSURE DROP
COL	COLUMN	PENET	PENETRATIONS
CONC	CONCRETE	PF	PREFILTER
COND	CONDENSATE	PH	PHASE
CONN	CONNECTION	PL	PLATE
CONT	CONTINUATION OR CONTROL	PNEU	PNEUMATIC
CP	CEILING REGISTER/CONDENSATE RETURN	PNL	PANEL
CS	CARBON STEEL (GALVANIZED)	POC	POINT OF CONNECTION
CW	CLOCKWISE	POS	POSITIVE
CWR	CONDENSER WATER RETURN	PRESS	PRESSURE
CWS	CONDENSER WATER SUPPLY	PSIG	POUNDS PER SQUARE INCH GAUGE
D	DRAIN	PSID	PRESSURE DIFFERENTIAL
DA	DIRECT ACTING	QTY	QUANTITY
DDC	DIRECT DIGITAL CONTROL	R	ROWS
DDCP	DIRECT DIGITAL CONTROL PANEL	RA	RETURN AIR
DET	DETAIL	RD	REFRIGERANT DISCHARGE
DI	DIGITAL IN	REF	REFERENCE
DISCH	DISCHARGE	REG	REGISTER
DN	DOWN	REQD	REQUIRED
DO	DIGITAL OUT	RET	RETURN
DP	DROP PROOF	RGT	REFRIGERANT
DWG	DRAWING	RG	RETURN GRILLE
Ø/DIA	DIAMETER	RH	RELATIVE HUMIDITY
EA	EACH	RNG	REHEAT COIL
EFF	EFFICIENCY	RL	REFRIGERANT LIQUID
EGR	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
EXTIL	EXFILTRATION	SD	SMOKE DETECTOR
EXH	EXHAUST	SEC	SECONDARY
*F	DEGREES FAHRENHEIT	SF	SUPPLY FAN
*F DB	DEGREES FAHRENHEIT, DRY BULB (AIR)	SG	SUPPLY GRILLE
*F WB	DEGREES FAHRENHEIT, WET BULB (AIR)	SHT	SHEET
FC	FALL CLOSED	SL	SOUND LINING
FD	FIRE DAMPER	SP	STATIC PRESSURE
FIN	FINISHED	SPEC	SPECIFICATION
FL	FALL LOCKED	SR	SUPPLY REGISTER
FLA	FULL-LOAD AMPERES	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STD	STANDARD
FLC	FLAME	STL	STEEL
FLR	FLOOR	STM	STEAM
FLTR	FILTER	STRUCT	STRUCTURAL
FO	FALL OPEN	SV	SOLENOID VALVE
FP	FIRE PROTECTION	SW	SWITCH
FPI	FINS PER INCH	TA	THROW AWAY
FPM	FEET PER MINUTE	TEFC	TOTALLY ENCLOSED FAN COOLED
FEET	FEET	TEMP	TEMPERATURE
FT2	SQUARE FEET	TG	TRANSFER GRILLE
FT3	CUBIC FEET	TOC	TOP OF CONCRETE
FURN	FURNISHED	TOP	TOP OF DUCT
FWD CRV	FORWARD CURVED	TOS	TOP OF STEEL
GA	GAUGE	TR	TRANSFER REGISTER
GALV	GALVANIZED	TRANSF	TRANSFER
GFE	GOVERNMENT FURNISHED EQUIPMENT	TSP	TOTAL STATIC PRESSURE
GPM	GALLONS PER MINUTE	TYP	TYPICAL
H	HIGH	UC	UNDERCUT DOOR
HD	HEAD	UG	UNDERGROUND
HDR	HEADER	UV	UNIT VENTILATOR
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER	VEL	VELOCITY
HF	HEPA FILTER OUTLET	VERT	VERTICAL
HOA	HAND/OFF/AUTO	VFD	VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VIV	VARIABLE INLET VANES
HP	HORSEPOWER	W	WIDE
HR	HOUR	WC	WATER COLUMN
HTG	HEIGHT	WG	WATER GAUGE
HTG	HEATING	WR	WORK
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WN	WELD NECK
HWR	HEATING HOT WATER RETURN	WP	WORKING POINT
HWS	HEATING HOT WATER SUPPLY	WT	WEIGHT
HE	HEATE	WTR	WATER
ID	INSIDE DIAMETER		
I.E.	THAT IS		



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MARK S. LYMAN  
 No. 10144  
 State of Louisiana  
 PROFESSIONAL ENGINEER

11/15/96

**PARSONS**

100 WEST WALNUT STREET  
PASADENA, CALIFORNIA

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CALIFORNIA INSTITUTE OF TECHNOLOGY  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER  
GRAVITATIONAL-WAVE OBSERVATORY  
SITE NO. 2 - LIVINGSTON, LOUISIANA

TITLE	HVAC LEGEND & ABBREVIATIONS
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