

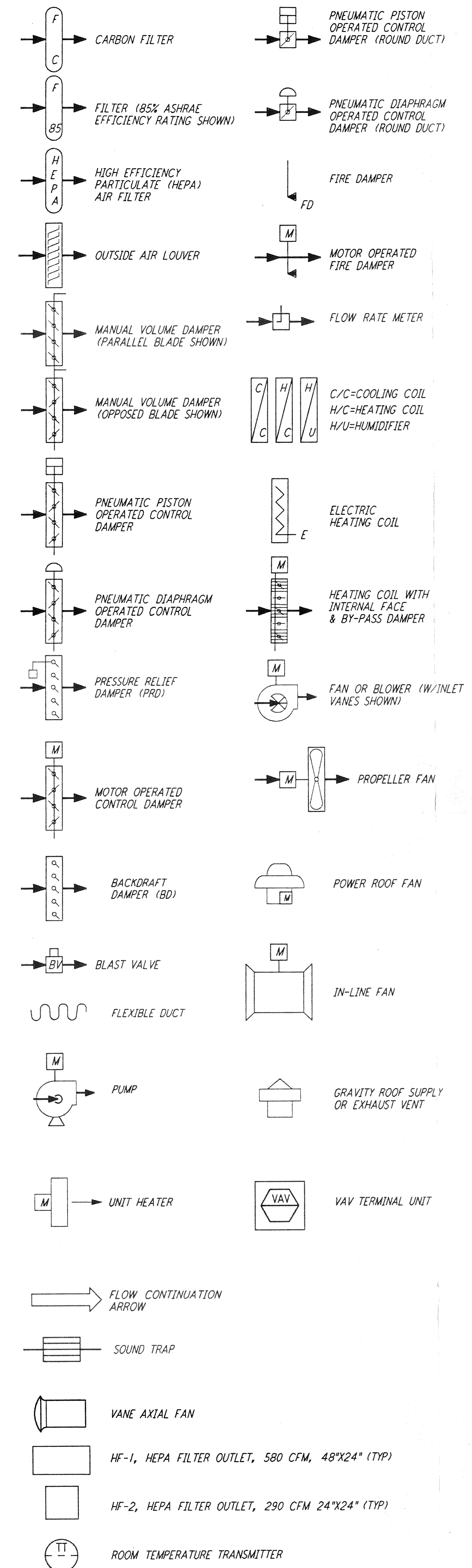
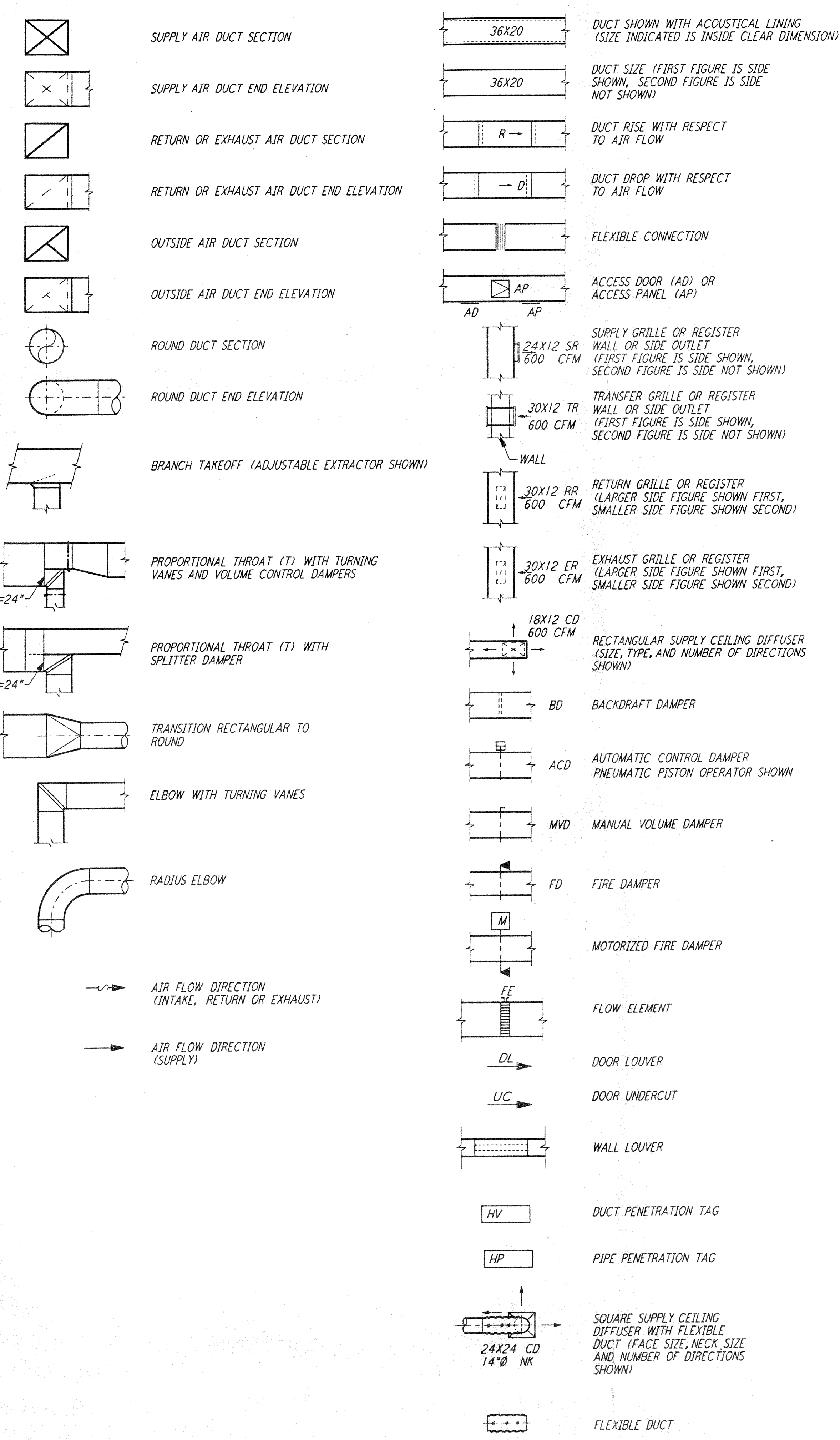
HEATING, VENTILATING AND AIR CONDITIONING LEGEND, SYMBOLS AND ABBREVIATIONS

DOUBLE LINE

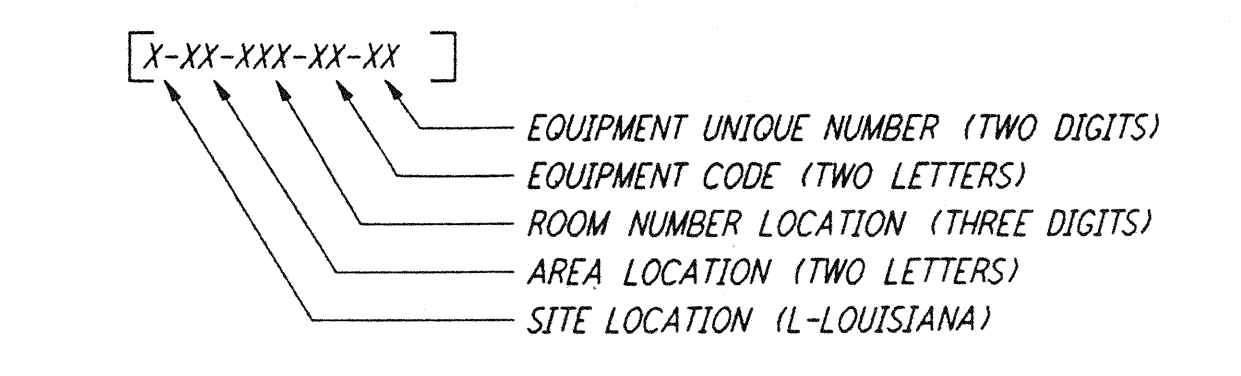
SINGLE LINE

ABBREVIATIONS

EQUIPMENT IDENTIFICATION



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



CODE	EQUIPMENT
AC	AIR CONDITIONING UNIT/COMPRESSOR (AIR)
AF	FILTER
AH	AIR HANDLING UNIT
AS	SEPARATOR (AIR)
AU	AIR COOLED CONDENSING UNIT
BR	BOILER
CC	COOLING COIL
CH	CHILLER
CT	COOLING TOWER
CU	CONDENSATE RETURN UNIT
DE	DEHUMIDIFIER
DR	DEAERATOR
DV	VARIABLE AIR VOLUME BOX (DOUBLE DUCT)
EF	EXHAUST FAN
FC	FAN COIL UNIT
GP	GLYCOL MIX FEED PUMP
HT	CONVECTOR HEATER
HU	HUMIDIFIER
HC	HEATING COIL
HE	HEAT EXCHANGER
PA	PACKAGED AIR CONDITIONING UNIT
PF	PRESSURIZATION FAN
RC	COMPRESSOR (REFRIGERATION)
RE	RECEIVER
RF	RETURN FAN
SF	SUPPLY FAN
ST	SOUND TRAP/DUCT SILENCER
SV	VARIABLE AIR VOLUME BOX (SINGLE DUCT)
TK	TANK
TP	STEAM TRAP
UH	UNIT HEATER
WP	CIRCULATING WATER PUMP

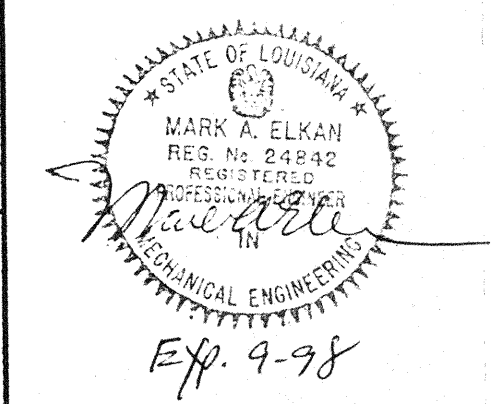
CODE	SITE LOCATION
L OR LA	LOUISIANA

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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NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION

ISSUED FOR CONSTRUCTION	CLP	11-15-96
DRAWN	MW	10-25-96
CHECKED	AA	10-23-96
ENGINEER	SPB	11/15/96
PROJ		



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

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
HVAC LEGEND & ABBREVIATIONS	NONE	PP150969	8094
SHEET NUMBER	LA-H-001		REVISIONS