

three inches = one foot

one and one half inches = one foot

one inch = one foot

one quarter inch = one foot

one eighth inch = one foot

one eighth inch = one foot

MECHANICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMP, AMPERES	D & T	DRIP & TAP	HB	HOSE BIBB	N	NORTH	S	SOUTH
A/C & VENT	AIR CONDITIONING & VENTILATING	DB	DIESEL	HCB	HEATING COIL	N2	NITROGEN	SA	SANITARY AIR
A/C UNIT	AIR CONDITIONING UNIT	DB	DRY BULB	HC	HYDROCARBON	N2O	NITROUS OXIDE	SAN	SANITARY SEWER
A/E	ARCHITECT-ENGINEER	DCW	DOMESTIC COLD WATER	HD	HEAT DETECTOR	NATL	NATIONAL	SAN-V	SANITARY [VENT LINE]
A/EV	AUTOMATIC AIR VENT	DDC	DIRECT DIGITAL CONTROL	HE	HEAT EXCHANGER	NATL	NATIONAL	SCFH	STANDARD CUBIC FEET PER HOUR
ABS	ABSOLUTE	DEG	DEGREE	HEDV	HOSE END DRAIN VALVE	NC	NORMALLY CLOSED	SCFM	STANDARD CUBIC FEET PER MINUTE
AC	ALTERNATING CURRENT	DEG C	DEGREE CELSIUS	HEX	HEAT EXCHANGER	NE	NORTHEAST	SCHED	SCHEDULE
ACS DR	ACCESS DOOR	DEG F	DEGREE FAHRENHEIT	HHL	HUMIDITY HIGH LIMIT	NEC	NATIONAL ELECTRICAL CODE	SCV	SECTIONAL CONTROL VALVE
ACSS PNL	ACCESS PANEL	DEM	DEMOLISH, DEMOLITION	HHWR	HEATING HOT WATER (PRIMARY) RETURN	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	SCW	SOFT COLD WATER
ACST	ACOUSTIC	DEPT	DEPARTMENT	HHWRAS	HEATING HOT WATER (RADIATION) RETURN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SD	SMOKE DAMPER
ACT	AUTOMATIC	DET	DETECT	HHWRAS	HEATING HOT WATER (RADIATION) RETURN	NG	NATURAL GAS	SE	SOUTHEAST
ACV	AUTOMATIC CONTROL VALVE	DFT	DRINKING FOUNTAIN	HHWR	HEATING HOT WATER (REHEAT) RETURN	NIC	NOT IN CONTRACT	SEL	STATIC FAN EFFICIENCY
ADDL	ADDITIONAL	DF	DIESEL FUEL LINE	HHWR	HEATING HOT WATER (REHEAT) RETURN	NO	NORMALLY OPEN	SECT	SECTION
ADDV	ADDITIONAL	DFG	DIRECT FIRE GAS	HHWR	HEATING HOT WATER (REHEAT) RETURN	NO	NORMALLY OPEN	SEL	SECTION
ADDN	ADDITION	DGP	DATA GATHERING PANEL	HHWR	HEATING HOT WATER (REHEAT) RETURN	NOM	NOMINAL	SENS	SENSIBLE
ADJ.S	ADJUSTABLE	DHW	DOMESTIC HOT WATER	HHWS	HEATING HOT WATER (SECONDARY) RETURN	NOX	NITROUS OXIDES	SEP	SEPARATOR
AIR FCIL	AIR FLOW	DHWR	DOMESTIC HOT WATER RETURN	HQ	HUB OUTLET	NPSH	NET POSITIVE SUCTION HEAD	SE	SEPARATOR
AFF	ABOVE FINISHED FLOOR	DIA	DIAMETER	HOA	HAND-OFF-AUTO	NPW	NON-POTABLE WATER	SH	SHOWER
AFS	AIR FLOW SWITCH	DI	DIGITAL INPUT	HORIZ	HORIZONTAL, HORIZONTALLY	NRC	NOISE REDUCTION COEFFICIENT	SHT	SHEET
AM	ALARM	DIF	DIFFERENTIAL	HOSP	HOSPITAL	NRS	NON-REVERSING STEAM	SL	SILENCER
AHU	AIR HANDLING UNIT	DIM	DIMENSION	HP	HORSEPOWER	NS	NURSE STATION	SIM	SIMILAR
AHR	ANCHOR	DP	DUCTILE IRON PIPE	HPD	HIGH PRESSURE DRAIN	NSF	NATIONAL SANITATION FOUNDATION	SM	SHEET METAL
AI	ANALOG INPUT	DR	DISCONNECTED WATER RETURN	HP02	HIGH PRESSURE OXYGEN	NIS	NOT TO SCALE	SP	STATIC PRESSURE
AIR COMPR	AIR COMPRESSOR	DISC	DISCONNECT	HPR	HIGH PRESSURE RETURN	NW	NORTHWEST	SPEC	SPECIFICATION
ALM	ALARM	DISCH	DISCHARGE	HPS	HIGH PRESSURE SUPPLY	O2	OXYGEN	SPKLR	SPRINKLER
ALT	ALTERNATE	DICH CONT	DISCHARGE CONTROLLER	HRI	HEAT RECOVERY UNIT	O/O	OUT TO OUT	SQ	SQUARE
ALT	ALTITUDE	DIV	DIVISION	HRT	HEATING	OA	OUTSIDE AIR	SR	SUPPLY RISER
ALUM	ALUMINUM	DW	DEIONIZED WATER	HRT	HEATER	OD	OUTSIDE DIAMETER	SS	SELECTOR SWITCH
AMS	AIR MEASURING STATION	DWP	DAMPENING	HUM	HUMIDITY, HUMIDIFIER	OD	OWNER FURNISHED / CONTRACTOR INSTALLED	SS	SERVICE SINK
ANNUC	ANNUNCIATION	DMPF	DAMPENING	HVCAB	HV CAB	OP/OI	OWNER FURNISHED / OWNER INSTALLED	SST	STAINLESS STEEL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DMP	DAMPENING	HVCAB	HV CAB	OP	OPPOSITE	ST	STORM
AO	ANALOG OUTPUT	DOM	DOMESTIC	HVCAB	HV CAB	OP	OPPOSITE	ST-L	STORM (LINE)
APD	AIR PRESSURE DROP	DOM	DOMESTIC	HVCAB	HV CAB	OP	OPPOSITE	STA	STATION
APPROX	APPROXIMATE	DPS	DIFFERENTIAL PRESSURE SENSOR	HVCAB	HV CAB	OP	OPERATOR, OPERATED	STC	SOUND TRANSMISSION CLASS
AGST	AQUASTAT	DPT	DIFFERENTIAL PRESSURE TRANSMITTER	HVCAB	HV CAB	OP	OPERATING ROOM	STD	STANDARD
AR	ARGON	DRAN	DRAIN	HVCAB	HV CAB	OP	OVERFLOW ROOF DRAIN	STL	STEEL
ARCH	ARCHITECTURAL	DS	DOWNSPOUT	HVCAB	HV CAB	OP	OVERFLOW ROOF DRAIN	STM	STEAM
ARRG	ARRANGEMENT	DDSD	DUCT SMOKE DETECTOR	HVCAB	HV CAB	OP	OUTSIDE SCREW & YOKE	STM GEN	STEAM GENERATOR
AS	AUTOMATIC SPRINKLER	DT	DRAIN TILE	HVCAB	HV CAB	OP	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION	STR	STRAINER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	DW	DIESTILLED WATER	HVCAB	HV CAB	OP	OUTLET VELOCITY	STRUC	STRUCTURAL
ASPH	ASPHALT	DW	DOMESTIC WATER	HVCAB	HV CAB	OP	OUTLET VELOCITY	SUP	SUPPLY
ASR	AUTOMATIC SPRINKLER RISER	DWG	DRAWING	HVCAB	HV CAB	OP	OUTLET VELOCITY	SUSP	SUSPENDED, SUSPENSION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	DX	DIRECTION EXPANSION	HVCAB	HV CAB	OP	OUTLET VELOCITY	SVA	SOLENOID VALVE
AT	AIR TRAP	E	EAST	HVCAB	HV CAB	OP	OUTLET VELOCITY	SW	SOUTHWEST
ATF	AUTOMATIC TRANSMISSION FLUID	E	EAST	HVCAB	HV CAB	OP	OUTLET VELOCITY	SW	SWITCH
ATM	ATMOSPHERE	EA	EXHAUST AIR	HVCAB	HV CAB	OP	OUTLET VELOCITY	SW	SOFT WATER (LINE)
ATT	ATTENUATOR	EA	EXHAUST AIR	HVCAB	HV CAB	OP	OUTLET VELOCITY	SYM	SYMMETRICAL
AUTO	AUTOMATIC	EAC	ENTERING AIR TEMPERATURE	HVCAB	HV CAB	OP	OUTLET VELOCITY	SYS	SYSTEM
AUT	AUTOMATIC	EC	ELECTRIC COIL, INCLUDING, INCLUSIVE	HVCAB	HV CAB	OP	OUTLET VELOCITY	T & P VALVE	TEMPERATURE & PRESSURE VALVE
AVG	AVERAGE	ECC	ECCENTRIC	HVCAB	HV CAB	OP	OUTLET VELOCITY	TCV	TEMPERATURE CONTROL VALVE
AW	ACID WASTE	ECON	ECONOMIZER	HVCAB	HV CAB	OP	OUTLET VELOCITY	TDH	TOTAL DYNAMIC HEAD
BC	BOTTOM CHORD	EDP	ELECTRONIC DATA PROCESSING	HVCAB	HV CAB	OP	OUTLET VELOCITY	TE	TEMPERATURE SENSING ELEMENT
BDD	BACKDRAFT DAMPER	EFF	EFFICIENCY	HVCAB	HV CAB	OP	OUTLET VELOCITY	TEMP	TEMPERATURE
BF	BARRIER FREE	EH	ELECTRIC HEATING COIL	HVCAB	HV CAB	OP	OUTLET VELOCITY	TH	THERMOSTAT
BF	BRAKE FLUID (LINE)	EJ	EXPANSION JOINT	HVCAB	HV CAB	OP	OUTLET VELOCITY	TOT	TOTAL
BFV	BACKFLOW PREVENTOR	EL	ELEVATION	HVCAB	HV CAB	OP	OUTLET VELOCITY	TSP	TOTAL STATIC PRESSURE
BFV/A	BUTTERFLY VALVE	ELEC	ELECTRIC, ELECTRONIC	HVCAB	HV CAB	OP	OUTLET VELOCITY	TSST	THERMOSTAT
BFW	BOILER FEED WATER (LINE)	ELEV	ELEVATOR	HVCAB	HV CAB	OP	OUTLET VELOCITY	TSW	TEMPERATURE SENSOR W/ WELL
BHP	BRAKE HORSEPOWER	ELM	ELIMINATOR	HVCAB	HV CAB	OP	OUTLET VELOCITY	TV	TELEVISION
BI	BACKWARDLY INCLINED	ELB	ELBOW	HVCAB	HV CAB	OP	OUTLET VELOCITY	TYP	TYPICAL
BITUM	BITUMINOUS	EMER	EMERGENCY	HVCAB	HV CAB	OP	OUTLET VELOCITY	UFD	USED FIKER DRAIN
BJ	BALL JOINT	EMER SHR	EMERGENCY SHOWER	HVCAB	HV CAB	OP	OUTLET VELOCITY	UC	UNDERGROUND
BLDG	BUILDING	EMER SHR/EWS	EMERGENCY SHOWER/EYE WASH	HVCAB	HV CAB	OP	OUTLET VELOCITY	UH	UNIT HEATER
BLR	BOILER	EMS	ENERGY MANAGEMENT SYSTEM	HVCAB	HV CAB	OP	OUTLET VELOCITY	UL	UNDERWRITERS LABORATORIES
BLR HP	BOILER HORSEPOWER	ENCL	ENCLOSURE, ENCLOSED	HVCAB	HV CAB	OP	OUTLET VELOCITY	UNO	UNLESS NOTED OTHERWISE
BLM	BENCHMARK	ENR	ENTRANCE	HVCAB	HV CAB	OP	OUTLET VELOCITY	UPS	UNINTERRUPTIBLE POWER SUPPLY
BMS	BUILDING MANAGEMENT SYSTEM	EP	ELECTRIC PNEUMATIC	HVCAB	HV CAB	OP	OUTLET VELOCITY	URNL	UNRELIABLE
BOD	BOTTOM OF DUCT	EP	ELECTRIC PNEUMATIC	HVCAB	HV CAB	OP	OUTLET VELOCITY	USGS	UNITED STATES GEOLOGICAL SURVEY
BOP	BOTTOM OF PIPE	EPO	EMERGENCY POWER OFF	HVCAB	HV CAB	OP	OUTLET VELOCITY	V	VENT
BOT	BOTTOM	EQ	EQUAL	HVCAB	HV CAB	OP	OUTLET VELOCITY	VA	VALVE
BQ	BATH	EQUIP	EQUIPMENT	HVCAB	HV CAB	OP	OUTLET VELOCITY	VAC	VACUUM
BTH	BRITISH THERMAL UNIT	ERH	ELECTRIC REHEAT COIL	HVCAB	HV CAB	OP	OUTLET VELOCITY	VAC	VACUUM (EVACUATION)
BTH/H	BRITISH THERMAL UNIT PER HOUR	ES	END SWITCH	HVCAB	HV CAB	OP	OUTLET VELOCITY	VAV	VARIABLE AIR VOLUME
BW	BETWEEN	ESTOP	EMERGENCY STOP SWITCH	HVCAB	HV CAB	OP	OUTLET VELOCITY	VB	VACUUM BREAKER
BUL	BULLETIN	EVAC	EVACUATION	HVCAB	HV CAB	OP	OUTLET VELOCITY	VEL	VELOCITY
BVA	BALL VALVE	EW	ELECTRIC WATER COOLER	HVCAB	HV CAB	OP	OUTLET VELOCITY	VENT	VENTILATING, VENTILATION
BWG	BIRMINGHAM WIRE GAGE	EW	ELECTRIC WATER HEATER	HVCAB	HV CAB	OP	OUTLET VELOCITY	VERT	VERTICAL
C	COMMON	EWT	ENTERING WATER TEMPERATURE	HVCAB	HV CAB	OP	OUTLET VELOCITY	VFD	VARIABLE FREQUENCY DRIVE
C TO C	CENTER TO CENTER	EX	EXCAVATE, EXCAVATION	HVCAB	HV CAB	OP	OUTLET VELOCITY	VB	VIBRATION
CA	COMPRESSED AIR	EXHAUST	EXHAUST	HVCAB	HV CAB	OP	OUTLET VELOCITY	VIF	VERIFY IN FIELD
CAB	CABINET	EXIST	EXISTING	HVCAB	HV CAB	OP	OUTLET VELOCITY	VISC	VISCOSITY
CAP	CAPACITY	EXIST GR	EXISTING GRADE	HVCAB	HV CAB	OP	OUTLET VELOCITY	VOL	VOLUME
CAR	CAR	EXP	EXPANSION	HVCAB	HV CAB	OP	OUTLET VELOCITY	VOLT	VOLTAGE
CAV	CONSTANT AIR VOLUME	EXPS	EXPOSED	HVCAB	HV CAB	OP	OUTLET VELOCITY	VSD	VARIABLE SPEED DRIVE
CB	CATCH BASIN	EXT	EXTERIOR, EXTERNAL	HVCAB	HV CAB	OP	OUTLET VELOCITY	VTR	VENT THROUGH ROOF
CC	COOLING COIL	F & BYP	FACE & BYPASS	HVCAB	HV CAB	OP	OUTLET VELOCITY	VVR	VARIABLE VOLUME HEAT
CCW	COUNTERCLOCKWISE	F & T	FACE & THERMOSTATIC	HVCAB	HV CAB	OP	OUTLET VELOCITY	W	WEST
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	F/F	FACE TO FACE	HVCAB	HV CAB	OP	OUTLET VELOCITY	W & V	WIDE, WIDTH
CFH	CUBIC FEET PER HOUR	FAIL	FAILURE	HVCAB	HV CAB	OP	OUTLET VELOCITY	W	WASTE & VENT
CFM	CUBIC FEET PER MINUTE	FC	FORWARD CURVED	HVCAB	HV CAB	OP	OUTLET VELOCITY	W/	WITH
CFS	CUBIC FEET PER SECOND	FLO	FLOOR DRAIN	HVCAB	HV CAB	OP	OUTLET VELOCITY	W/O	WITHOUT
CH	CHILLER	FDMR	FIRE DAMPER	HVCAB	HV CAB	OP	OUTLET VELOCITY	WAGO	WASTE ANESTHETIC GAS DISPOSAL (LINE)
CHKV	CHECK VALVE	FM	FIRE EXTINGUISHER	HVCAB	HV CAB	OP	OUTLET VELOCITY	WB	WET BULB
CHWR	CHILLED WATER RETURN	FEC	FIRE EXTINGUISHER CABINET	HVCAB	HV CAB	OP	OUTLET VELOCITY	WC	WATER CLOSET
CHWS	CHILLED WATER SUPPLY	FH	FUME HOOD	HVCAB	HV CAB	OP	OUTLET VELOCITY	WF	WASH FOUNTAIN
CI	CAST IRON	FIC	FIRE HOSE CABINET	HVCAB	HV CAB	OP	OUTLET VELOCITY	WFS	WATER FLOW SWITCH
CIR	CIRCLE, CIRCULAR, CIRCULATION	FIH	FIRE HOSE HOLDER	HVCAB	HV CAB	OP	OUTLET VELOCITY	WG	WATER GAGE
CISP	CAST IRON SOL PIPE	FIR	FIRE HOSE RACK / REEL	HVCAB	HV CAB	OP	OUTLET VELOCITY	WH	WALL HYDRANT
CMP	CAST IRON WATER PIPE	FISP	FIRE HOSE STAND PIPE	HVCAB	HV CAB	OP	OUTLET VELOCITY	WPD	WATER PRESSURE DROP
CL	CENTERLINE	FIN	FINISH, FINISHED	HVCAB	HV CAB	OP	OUTLET VELOCITY	WST	WASTE STACK
CLO	CLOSET	FL	FIRE LINE	HVCAB	HV CAB	OP	OUTLET VELOCITY	WT	WEIGHT
CLOS	CLOSE	FLA	FULL LOAD AMP'S	HVCAB	HV CAB	OP	OUTLET VELOCITY	WV	WALL VENT
cm	CENTIMETER	FLEX	FLEXIBLE	HVCAB	HV CAB	OP	OUTLET VELOCITY	WWF	WINDSHIELD WASHER FLUID
CMP	CORRUGATED METAL PIPE	FLG	FLANGE	HVCAB	HV CAB	OP	OUTLET VELOCITY	WWR	WELDER WATER RETURN
CN	CLEANOUT	FLOOR	FLOOR	HVCAB	HV CAB	OP	OUTLET VELOCITY	WWS	WELDER WATER SUPPLY
CO	CARBON MONOXIDE	FMS	FACTORY MUTUAL	HVCAB	HV CAB	OP	OUTLET VELOCITY	XFMR	TRANSFORMER
CO2	CARBON DIOXIDE	FOD	FOUNDATION	HVCAB	HV CAB	OP	OUTLET VELOCITY	XH	EXTRA HEAVY
COLUM	COLUMBUS	FOP	FUEL OIL RETURN	HVCAB	HV CAB	OP	OUTLET VELOCITY	XP	EXPLOSION PROOF
COMPR	COMPRESSOR	FOS	FUEL OIL SUPPLY	HVCAB	HV CAB	OP	OUTLET VELOCITY	YD	YARD
CONC	CONCRETE	FP	FIRE PROTECTION	HVCAB	HV CAB	OP	OUTLET VELOCITY	YH	YARD HYDRANT
COND	CONDENSATE, CONDENSER, CONDENSING	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY	ZVA	ZONE VALVE
CONDR	CONDENSER WATER RETURN	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
COND	CONDENSER WATER SUPPLY	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CONF	CONFERENCE	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CONN	CONNECTION	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CONSTR	CONSTRUCTION	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CONT	CONTINUATION, CONTINUE, CONTINUOUS	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CONTR	CONTRACTOR	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
COORD	COORDINATE	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CORR	CORRIDOR	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CP	CONTROL PANEL	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CPD	CONDENSATE PUMP DISCHARGE	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CPRS	COMPRESSIBLE, COMPRESSED	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CPS	CYCLES PER SECOND	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CPVC	CHLORINATED POLYVINYL CHLORIDE	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CRUMF	CIRCUMFERENCE	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CRU	COMPUTER ROOM UNIT	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CS	CUP SINK	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CSR	CURRENT SENSING RELAY	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CSS	CLINIC SERVICE SINK	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CT	CENTERED TOWER	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CTRD	CENTERED	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CTRL	CONTROL	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CU	CUP	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CUH	CABINET UNIT HEATER	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CULV	CULVERT	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CV	CAPACITY INDEX	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CW	COLD WATER	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CWFT	COOLING WATER FROM TOWER	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CWR	COOLING WATER RETURN	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CWS	COOLING WATER SUPPLY	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		
CWT	COOLING WATER TO TOWER	FT	FEET PER MINUTE	HVCAB	HV CAB	OP	OUTLET VELOCITY		

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Approved Project Director
J. P. COLE

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Office of Construction and Facilities Management
Department of Veterans Affairs

KEY PLAN

MECHANICAL GENERAL NOTES

GENERAL NOTES:

- VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES BEFORE START OF CONSTRUCTION.
- CONNECTIONS TO AND SHUT-DOWNS OF EXISTING SYSTEMS SHALL BE COORDINATED W/OWNER TO ALLOW MINIMUM INTERFERENCE. WITH THE OWNER'S OPERATIONS AND DOWN TIME OF EXISTING SERVICES, CONTRACTOR SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL THE PROPOSED PHASING PLAN FOR CONNECTING NEW SERVICES.
- IT IS MANDATORY FOR CONTRACTOR TO COORDINATE WITH ALL OTHER MECHANICAL AND ELECTRICAL TRADES IN REGARDS TO ROUTING OF PIPING IN MECHANICAL ROOMS, SHAFES, ABOVE CEILINGS AND INTERSTITIAL SPACES.
- IN PLUMBING PIPING AND HYDRONIC PIPING, INSTALL SHUT-OFF VALVES ON ALL BRANCH LINES TO FIXTURES OR EQUIPMENT. INSTALL THE VALVES AS CLOSE TO THE MAIN AS POSSIBLE. VALVES SHOULD BE INSTALLED IN INTERSTITIAL SPACES AS OPPOSED TO CEILING CAVITY. VERIFY THAT VALVES WILL BE ACCESSIBLE FOR MAINTENANCE AFTER THE PROJECT IS COMPLETED.
- INSTALL WATER HAMMER ARRESTORS AS NEAR TO THE SOURCE OF SHOCK (QUICK CLOSING VALVE) AS POSSIBLE ON ALL HOT AND COLD WATER LINES TO FIXTURES AND EQUIPMENT.
- ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS AND STRAINERS, TRANSMITTERS, CONTROL DEVICES, PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO THE RESIDENT ENGINEER (RE)/CONTRACT OFFICER TECHNICAL REPRESENTATIVE (COTR) FOR RESOLUTION.

DEMOLITION NOTES:

- REMOVE ALL ITEMS INDICATED FOR DEMOLITION. REMOVE ASSOCIATED SUPPORTS, ACCESSORIES, INSULATION, CONDUIT, WIRING AND CONTROLS