

MECHANICAL LEGEND			
SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	ABBREV.	DESCRIPTION
			EXISTING HVAC TO REMAIN
			EXISTING HVAC TO BE REMOVED
			DUCT – INSIDE CLEAR DIMENSIONS IN INCHES 1ST DIMENSION, SIDE SHOWN 2ND DIMENSION, NOT SHOWN Ø – ROUND DUCT INSIDE CLEAR DIAMETER IN INCHES
			DIRECTION OF AIR FLOW
			DUCT RISES OR DROPS IN DIRECTION OF ARROW
			DUCT TRANSITION
			DUCT CAP
		MVD	MANUAL VOLUME DAMPER
		BDD	BACKDRAFT DAMPER
		MD	MOTORIZED DAMPER
		AP	ACCESS PANEL OR CLEANOUT
		FD	FIRE DAMPER 1-1/2 HOUR RATED UNLESS OTHERWISE NOTED
		FSD	FIRE SMOKE DAMPER 1-1/2 HOUR RATED UNLESS OTHERWISE NOTED
			SQUARE ELBOW W/TURNING VANES
			RADIUS ELBOW
			SUPPLY OR OUTSIDE AIR DUCT UP
			SUPPLY OR OUTSIDE AIR DUCT DOWN
			RETURN AIR DUCT UP
			RETURN AIR DUCT DOWN
			EXHAUST AIR DUCT UP
			EXHAUST AIR DUCT DOWN
			ROUND DUCT UP
			ROUND DUCT DOWN
			DUCT TEMPERATURE SENSOR
			DUCT STATIC PRESSURE SENSOR
			DUCT SMOKE DETECTOR
			FLEXIBLE CONNECTION
		L	LINED DUCT – INSIDE CLEAR DIMENSIONS SHOWN
			SOUND ATTENUATOR IN DUCT
			SUPPLY AIR TAKEOFF
			RETURN/EXHAUST AIR TAKEOFF
			SUPPLY AIR TAKEOFF – SPIN-IN FITTING WITH DAMPER
			SUPPLY AIR TAKEOFF – BELLMOUTH SPIN-IN FITTING WITH DAMPER

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MPØ MDØ PPØ E□ – OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP□ MD□ PP□ E□ – OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) # _____

MP□ MD□ PP□ – OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

MECHANICAL LEGEND			
SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	ABBREV.	DESCRIPTION
			RECTANGULAR SUPPLY DIFFUSER FOUR-WAY AIRFLOW DIRECTION UNLESS OTHERWISE NOTED (CD)
			RECTANGULAR RETURN REGISTER (CR)
			RECTANGULAR EXHAUST REGISTER (CER)
			ROUND SUPPLY DIFFUSER
			BAR LINEAR SUPPLY DIFFUSER
			SLOT LINEAR SUPPLY DIFFUSER
			SIDEWALL REGISTER (SUPPLY)
			SIDEWALL REGISTER (RETURN OR EXHAUST)
			VAV TERMINAL UNIT
			VAV TERMINAL UNIT W/ ELEC REHEAT
			VAV TERMINAL UNIT W/ HW REHEAT
			VAV FAN TERMINAL UNIT WITH OR WITHOUT HW OR ELEC REHEAT
			UNDER CUT DOOR "xx" INCHES "yy" CFM OF TRANSFER AIR
		POC	POINT OF CONNECTION
		POD	POINT OF DISCONNECTION
			KEYNOTE
			CHILLED WATER SUPPLY
			CHILLED WATER RETURN
			CONDENSER WATER SUPPLY
			CONDENSER WATER RETURN
			HEATING HOT WATER SUPPLY
			HEATING HOT WATER RETURN
			REFRIGERANT LIQUID
			REFRIGERANT SUCTION
			REFRIGERANT HOT GAS
			CONDENSATE DRAIN
			DRAIN
			PUMP
			PIPE TURNING DOWN
			PIPE TURNING UP
			VALVE ON RISE OR DROP
			CAPPED PIPE END
			CONCENTRIC REDUCER
			ECCENTRIC REDUCER
			PRESSURE GAUGE W/ SHUTOFF COCK
			THERMOMETER
			UNION
			PIPE PITCHED DOWN IN DIRECTION OF ARROW
			GATE VALVE
			OS&Y GATE VALVE
			UNDERGROUND GATE VALVE
			GLOBE VALVE
			ROOM WALL MOUNTED TEMPERATURE SENSOR

ABBREVIATIONS	
ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AMB	AMBIENT
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BTU PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONT	CONTINUATION
CP	CONTROL PANEL
DB	DRY BULB
DIA Ø	DIAMETER
DL	DOOR LOUVER
DN	DOWN
DX	DIRECT EXPANSION (REFRIGERANT)
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWI	ENTERING WATER TEMPERATURE
EX	EXISTING
FA	FREE AREA
FT	FEET
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLA	FULL LOAD AMPERES
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
FV	FACE VELOCITY
GA	GAUGE
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
H	HEIGHT
HD	FEET OF WATER
HP	HORSEPOWER
HR	HOUR
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IN	INCHES

DESCRIPTION OF TAGS	
	REGISTER/DIFFUSER TYPE CFM
	DETAIL NUMBER SHEET NUMBER
	EQUIPMENT TYPE UNIT NUMBER
	SECTION NUMBER SHEET NUMBER

MECHANICAL SHEET INDEX

- M0.01 MECHANICAL SYMBOL LIST
- M0.02 MECHANICAL EQUIPMENT SCHEDULES
- M0.03 MECHANICAL CONTROL DIAGRAMS
- M0.04 MECHANICAL CONTROL DIAGRAMS
- M0.11 T24 DOCUMENTATION (HVAC)
- M0.12 T24 DOCUMENTATION (HVAC)
- M6.01 OVERALL SITE PLAN – MECHANICAL
- M7.01 FLOOR PLANS BUILDING "V" – MECHANICAL
- M7.02 FLOOR PLANS BUILDING "W" – MECHANICAL
- M7.03 ROOF PLANS BUILDING "V" – MECHANICAL
- M7.04 ROOF PLANS BUILDING "W" – MECHANICAL
- M8.01 FLOOR PLANS BUILDING "U" – MECHANICAL
- M9.01 FLOOR PLANS BUILDING "X" – MECHANICAL
- M10.01 FLOOR PLANS PRESS BOX – MECHANICAL
- M11.01 MECHANICAL DETAILS

ABBREVIATIONS	
ABBREV.	DESCRIPTION
LAT	LEAVING AIR TEMPERATURE
L	LENGTH
LB	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OTCS	OPEN TO CEILING SPACE
OV	OUTLET VELOCITY
PD	PRESSURE PROP
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSG	PSI GAUGE
QTY	QUANTITY
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RP	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
TDH	TOTAL DYNAMIC HEAD
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTR	UP THROUGH ROOF
V/PH/Hz	VOLTS. PHASE, HERTZ
VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF
W	WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
WT	WEIGHT

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE LATEST EDITION(S) OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, HOWEVER THE DESIGN DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
- SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
- WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS/SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
- CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, APPURTENANCES, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL HVAC SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.
- ALL EQUIPMENT, MATERIAL AND APPURTENANCES TO BE INSTALLED AS PART OF THE PROJECT SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
- CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE OWNER/DESIGN TEAM BEFORE PROCEEDING. CONTRACTOR SHALL PROVIDE AS-BUILT COPIES INDICATING ALL CHANGES/DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD.
- ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY CONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER'S REPRESENTATIVE TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER'S REPRESENTATIVE INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PARTICULAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS, AND/OR ADDITIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF HVAC AND PIPING SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES, AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE OWNER'S REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS, AND CONFIGURATIONS AND SUBMITTED IN THE LATEST VERSION OF AUTOCAD TO THE ENGINEER FOR REVIEW.
- CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE, AND/OR INSTALLATION OF ALL WORK.
- BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.
- CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
- EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- GALVANIZED SHEET METAL SHALL BE PROVIDED FOR ALL HVAC DUCT SYSTEMS (EXCEPT WHERE ANOTHER MATERIAL IS INDICATED), AND SHALL BE CONSTRUCTED/SUPPORTED/INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE AND THE LATEST SMACNA STANDARDS.
- ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A CLEAN AND WORKMANLIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR FIXTURES, DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT IN ORDER TO COMPLY WITH SEISMIC REQUIREMENTS AS OUTLINED BY THE LATEST EDITION(S) OF THE CALIFORNIA BUILDING CODE, SMACNA INSTALLATION STANDARDS, AND ALL RELATED LOCAL ORDINANCES.
- PIPING AND DUCT SUPPORTS SHALL BE AS FOLLOWS:
ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES OR AS DETAILED AND SPECIFIED HEREIN.
WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
- CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE OR STRUCTURAL ENGINEER OF RECORD.
- ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE WORK.
- LOCATE TEMPERATURE SENSING INSTRUMENTS AT PIPING ELBOWS AND TURBULENT AREAS OF MECHANICAL EQUIPMENT WHERE THE VELOCITY LIMITATIONS WILL NOT BE EXCEEDED.
- PRIOR TO OCCUPANCY ALL HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH AABC OR NEBB STANDARDS AND ALL CONTRACT DOCUMENTS BY AN INDEPENDENT AIR BALANCE CONTRACTOR. CONTRACTOR SHALL PROVIDE CERTIFICATION OF OUTSIDE AIR VENTILATION RATES AND THAT ALL SYSTEMS HAVE BEEN BALANCED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 7'-0" IN LENGTH TO RESPECTIVE AIR DEVICE, SHALL BE INSTALLED PER MANUFACTURER'S LISTING STRETCHED AS TIGHT AS POSSIBLE, AND SHALL MEET THE REQUIREMENTS OF NFPA 90A SECTION 4.3.2 IN CONSTRUCTION AND INSTALLATION.
- MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS.
- AIR DISTRIBUTION SYSTEMS SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE. CONTRACTOR SHALL REPLACE ALL FILTERS WITH A COMPLETE AND NEW SET PRIOR TO BUILDING OCCUPANCY.
- COVER ALL OPEN