

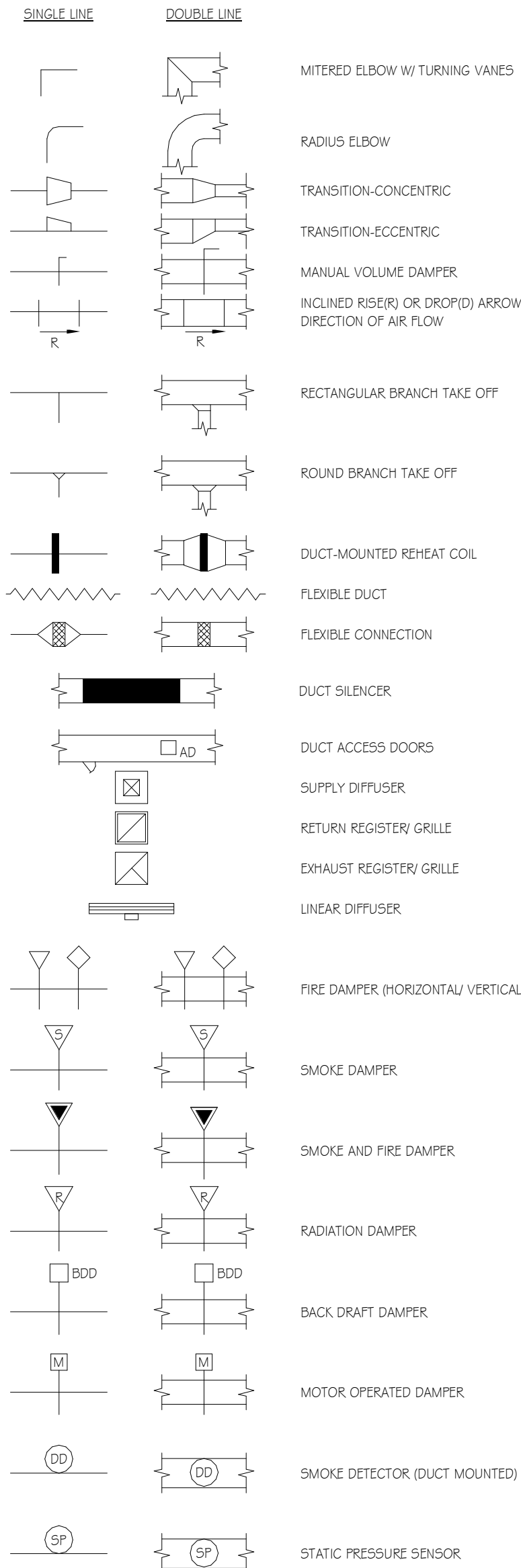
HEATING, VENTILATION AND AIR CONDITIONING

ABBREVIATIONS

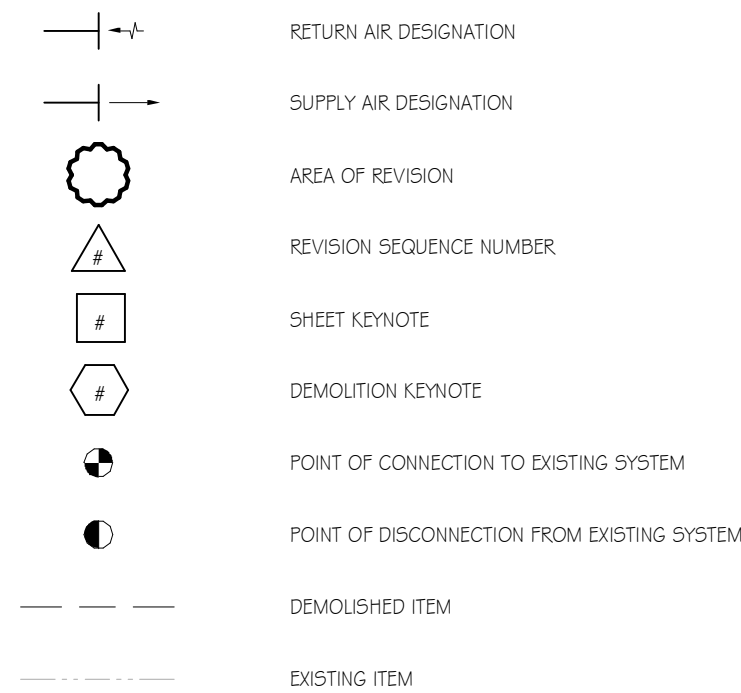
A		FLEX	FLEXIBLE
AB	ABOVE	FLR	FLOOR
AB CL	ABOVE CEILING	FFM	FEET PER MINUTE
ACU	AIR CONDITIONING UNIT	FT	FOOT/FEET
AFF	ABOVE FINISHED FLOOR	FT HD	FEET OF HEAD
AFG	ABOVE FINISHED GRADE	FUT	FUTURE
AHU	AIR HANDLING UNIT	G	
AMP	AMPERES	G	GROUND
APPROX	APPROXIMATE	GA	GAUGE/GAGE
ARCH	ARCHITECTURAL	GAL	GALLON
ASME	AMERICAN SOCIETY OF MECH ENG	GALV	GALVANIC or GALVANIZED
ATC	AUTOMATIC TEMPERATURE CONTROL	GC	GENERAL CONTRACTOR
AT ST	AT STRUCTURE	GEN	GENERAL
AUTO	AUTOMATIC	GPH	GALLONS PER HOUR
		GPM	GALLONS PER MINUTE
B		GR	GRILLE
BDD	BACK DRAFT DAMPER	GRD	GRADE
BE	BOTTOM ELEVATION	H	
BFG	BELOW FINISHED GRADE	H	HIGH
BJ	BETWEEN JOISTS	HC	HEATING (HVAC) CONTRACTOR
BLDG	BUILDING	HDAG	HEAVY DUTY ARCHITECTURAL GRILLE
BLW	BELOW	HGB	HOT GAS BYPASS
BOD	BOTTOM OF DUCT	HORIZ	HORIZONTAL
BOT	BOTTOM	HP	HORSE POWER
BTU	BRITISH THERMAL UNIT	HFC	HIGH PRESSURE CONDENSATE
		HPS	HIGH PRESSURE STEAM
C		HR	HOUR
C	CONVECTOR	HSTAT	HUMIDISTAT
CFM	CUBIC FEET PER MINUTE	CO	CLEANOUT
CLG	CEILING	COD	CENTER OF DUCT
CONC	CONCRETE	CONC	CONCRETE
COND	CONDENSATE/CONDENSING	COND	CONDENSATE/CONDENSING
CONN	CONNECT/CONNECTION	CONN	CONNECT/CONNECTION
CONST	CONSTRUCTION/CONSTRUCTION	COORD	COORDINATE
COORD	COORDINATE	CR	STEAM CONDENSATE RETURN
CR	STEAM CONDENSATE RETURN	GRACU	COMPUTER ROOM ACU
GRACU	COMPUTER ROOM ACU	CJ	CONDENSING UNIT
CJ	CONDENSING UNIT	CJH	CABINET UNIT HEATER
CJH	CABINET UNIT HEATER	CV	CHECK VALVE
CV	CHECK VALVE	CW	COLD WATER
CW	COLD WATER	CWR	CHILLED WATER RETURN
CWR	CHILLED WATER RETURN	CWS	CHILLED WATER SUPPLY
CWS	CHILLED WATER SUPPLY		
D			
DB	DRY BULB		
DEG	DEGREE		
DEPT	DEPARTMENT		
DIA	DIAMETER		
DISC	DISCONNECT		
DN	DOWN		
DR	DRAIN		
DR	DUCT RISER		
DS	DUCT SILENCER		
DSSU	DUCTLESS SPLIT SYSTEM UNIT		
DWG	DRAWING		
E			
EA	EXHAUST AIR		
EAT	ENTERING AIR TEMPERATURE		
EC	ELECTRICAL CONTRACTOR		
EDB	ENTERING DRY BULB TEMPERATURE		
EF	EXHAUST FAN		
EL	ELEVATION		
ELEC	ELECTRICAL		
EMER	EMERGENCY		
ENCL	ENCLOSURE		
EQUIP	EQUIPMENT		
ERU	ENERGY RECOVERY UNIT		
ESP	EXTERNAL STATIC PRESSURE		
ETR	EXISTING TO REMAIN		
EWB	ENTERING WET BULB TEMPERATURE		
EWT	ENTERING WATER TEMPERATURE		
EXH	EXHAUST/EXHAUSTER		
(E) OR EXIST	EXISTING		
EXP	EXPOSED		
F			
F	FAHRENHEIT		
FD	FIRE DAMPER		
FLA	FULL LOAD AMPERES		

GENERAL NOTE: NOT ALL ABBREVIATIONS OR TERMS INDICATED ARE USED ON THESE CONTRACT DOCUMENTS.

AIR DEVICES AND COMPONENTS

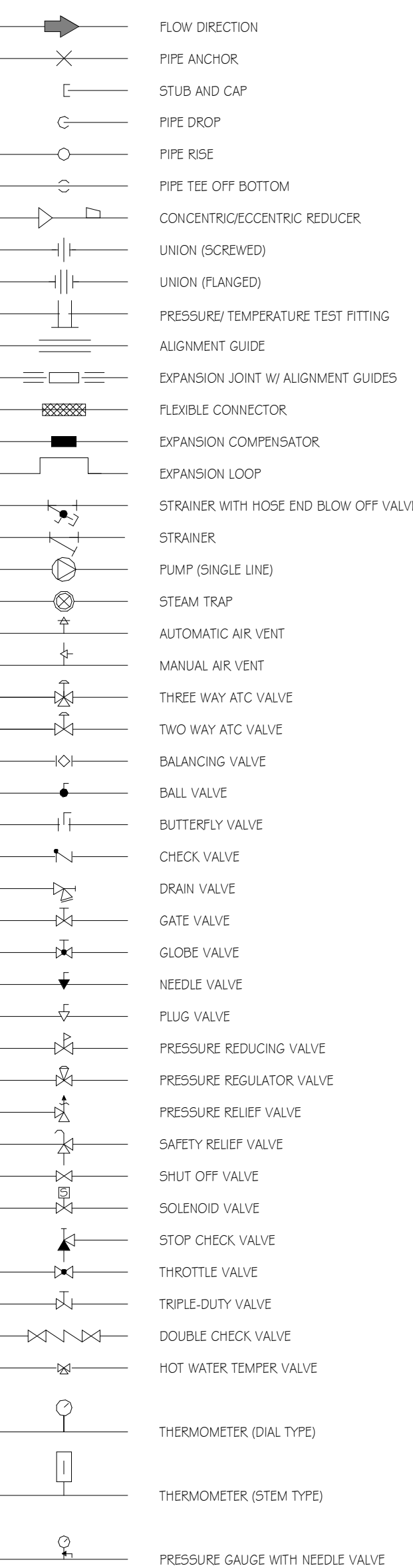


GRAPHIC SYMBOLS



NOTE: LEGENDS ARE GENERAL, NOT ALL SYMBOLS AND/OR DESIGNATIONS MAY APPEAR ON THE DRAWINGS.

PIPING SPECIALTIES



HVAC GENERAL NOTES

- ALL WORK AND EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES, AND REQUIREMENTS, OF ALL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL PLUMBING CODE, THE LOCAL FIRE MARSHALL, UNDERWRITERS LABORATORY, (IRI, FM, OSHA, AND THE NATIONAL ELECTRICAL CODE. MODIFICATIONS REQUIRED BY THE ABOVE AUTHORITIES IN ORDER TO BRING THE PROJECT INTO CODE REQUIREMENTS SHALL BE MADE AT NO ADDITIONAL COST TO OWNER. IF CONTRACT DOCUMENTS ARE MORE STRINGENT THAN CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN.
- ALL SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. ANY CONFLICTING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, AND WORK SHALL CEASE ON THAT PORTION OF THE PROJECT UNTIL CLARIFICATIONS ARE ISSUED. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE APPROXIMATE ARRANGEMENT OF THE SYSTEMS. THE CONTRACTOR SHALL FIELD VERIFY EXACT INFORMATION, DIMENSIONS, LOCATIONS AND COORDINATE WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS. NOT ALL INFORMATION IS SHOWN.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES. ALL MATERIAL, WASTE, AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. MAINTAIN THE CONSTRUCTION PREMISES IN A NEAT AND ORDERLY CONDITION AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE OWNER.
- CONTRACTOR SHALL COORDINATE, PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER FOR THEIR APPROVAL. SHOP DRAWINGS TO BE SUBMITTED INCLUDE: SHEET METAL, DIFFUSERS, GRILLES, REGISTERS, FIRE DAMPERS, AND ALL EQUIPMENT. SHEET METAL SHOP DRAWINGS SHALL BE COORDINATED AND SHOW DUCT ELEVATIONS, PROVIDE RISES, DROPS, AND OFFSETS TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. AREAS OF POTENTIAL CONFLICT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- A SET OF MEP RECORD/COORDINATION DRAWINGS SHALL BE MAINTAINED BY THE CONTRACTOR AT THE JOB SITE. ACTUAL LOCATIONS OF ALL EQUIPMENT, PIPING, DUCTWORK, AND ALL OTHER ITEMS INCLUDED IN THIS CONTRACT, AND ALL DEVIATIONS OF THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE MARKED ON THE RECORD/COORDINATION DRAWINGS. EACH TRADE SHALL REVIEW THE COORDINATION DRAWINGS AND RESOLVE ANY POTENTIAL CONFLICTS WITH OTHER TRADES PRIOR TO INSTALLING ANY PORTION OF THEIR WORK. CONTRACTOR SHALL NOT CORE DRILL, OR CUT CONCRETE SLABS FOR ANY REASON WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE OWNER.
- WORK SHALL BE EXECUTED IN A GOOD WORKMANLIKE MANNER USING MECHANICS IN THEIR RESPECTIVE TRADES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING THE WORK UNDER THIS CONTRACT. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL DELIVER COMPLETE AND FUNCTIONAL SYSTEMS AS ENCOMPASSED BY THE CONTRACT. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.
- IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST ALL CLAIMS AND JUDGMENTS ARISING OUT OF THE CONTRACTORS PERFORMANCE OF THE WORK OF THIS CONTRACT. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK, WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE APPROPRIATE AUTHORITY. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.
- THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE MECHANICAL CONTRACTOR ANY SLAB-TO-SLAB PARTITIONS IN ORDER TO PRESERVE RETURN AIR PATHWAYS. CONTRACTOR SHALL VERIFY PARTITION RATING AND PROVIDE FIRE DAMPER AND ACCESS DOOR WHERE REQUIRED BY CODE.
- WHEREVER FIRE RATED PARTITIONS ARE PENETRATED FOR WIRE, DUCT OR PIPE PASSAGE, SEAL AROUND PASSAGES WITH CODE APPROVED, LABORATORY TESTED AND LABELED SLAB OF FIRE RESISTANCE RATING NOT LESS THAN THAT OF PENETRATED ASSEMBLY THAT WILL PREVENT PASSAGE OF FIRE AND SMOKE. INSTALL APPROPRIATELY RATED FIRE, SMOKE OR COMBINATION DAMPERS IN ALL DUCT THAT PENETRATES RATED WALLS WHETHER SHOWN. DRAWING SYMBOLS ARE USED AS AN AID, NOT TO DEFINE AN EXACT NUMBER OF PIECES OF EQUIPMENT. PROVIDE A MINIMUM OF 18x18 ACCESS DOOR OR PANEL FOR ACCESS TO ALL FIRE, SMOKE, AND COMBINATION DAMPERS.
- CONTRACTOR SHALL VERIFY THAT THE LOCATION OF CEILING MOUNTED DIFFUSERS, GRILLES AND REGISTERS SHOWN ON THE DRAWINGS ARE ACCEPTABLE TO THE ARCHITECT PRIOR TO INSTALLATION.
- ALL NEW LOW PRESSURE RECTANGULAR DUCTWORK SHALL BE 1 INCH W.G. CONSTRUCTION AND ALL NEW MEDIUM PRESSURE RECTANGULAR DUCTWORK SHALL BE 3 INCH W.G. CONSTRUCTION. ALL NEW RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING GALVANIZED STEEL IN ACCORDANCE WITH THE LATEST EDITION OF THE "DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS," PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION INC. (SMACNA)." VOLUME DAMPERS SHALL BE PROVIDED IN ALL BRANCH TAKE OFF'S, SPINNS OR OTHER CONNECTIONS TO INDIVIDUAL AIR DEVICES. ALL 90° ELBOWS SHALL BE RADII, OR RECTANGULAR WITH TURNING VANES. DUCTWORK SHALL BE HUNG FROM THE BUILDING STRUCTURE WITH HANGER ASSEMBLIES IN ACCORDANCE WITH "SMACNA" REQUIREMENTS. ALL DUCT, REGARDLESS OF PRESSURE CLASS, SHALL BE SEALED PER SMACNA CLASS 'A' REQUIREMENTS. RUNOUTS TO EQUIPMENT SHALL BE IN SIZES INDICATED AND INCREASED OR REDUCED AT POINT OF FINAL CONNECTION TO EQUIPMENT. WHERE VAVS EXIST, ALL DUCTWORK UPSTREAM SHALL BE MEDIUM PRESSURE. ALL DUCTWORK DOWNSTREAM SHALL BE LOW PRESSURE.
- RECTANGULAR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED WITH 1 INCH, FIBERGLASS, FIRE=25, SMOKE=50, UNLESS OTHERWISE NOTED. EXTERIOR DUCTWORK SHALL BE INTERNALLY LINED WITH 2" FIBERGLASS, FIRE=25, SMOKE=50, UNLESS OTHERWISE NOTED. EXTERIOR DUCTWORK SHALL BE PAINTED AND SEALED WITH SILVER TAR ROOFING PAINT SEALANT. ADDITIONAL INSULATION MAY BE NEEDED TO MEET THE R-VALUES REQUIRED BY THE LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE. THE MAIN INTENTION OF THE DUCT LINER IS SOUND ATTENUATION. ENSURE THE CODE REQUIREMENT IS MET. DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
- ALL FLEXIBLE DUCTWORK SHALL BEAR THE UL (or I) LABEL (CLASS 1 AIR DUCT) AND SHALL BE FACTORY INSULATED (1-1/2 INCH O.D. LB. FIBERGLASS, FIRE =25, SMOKE=50) ATCO UPC #0761 OR EQUAL. FLEXIBLE DUCTWORK SHALL COMPLY WITH NFPA 90A, AND NFPA 90B. ALL FLEXIBLE DUCTWORK CONNECTED TO DIFFUSERS SHALL NOT BE LESS THAN THE NECK SIZE OF THE DIFFUSER. MINIMUM FLEXIBLE DUCT BEND RADIUS OR CURVATURE SHALL BE 3 DUCT DIAMETERS, MAXIMUM LENGTH SHALL BE 8'-0", NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS WILL BE ACCEPTABLE.
- ALL NEW ROUND SHEET METAL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH FIGURES 3-1 THROUGH 3-56 AND TABLE 3-2 OF THE "SMACNA" MANUAL. SNAP LOCK LONGITUDE SEAMS AND DRAW BAND JOINT CONNECTIONS ARE NOT ACCEPTABLE. INSTALL 1" FIBERGLASS DUCT WRAP ON ALL ROUND SUPPLY DUCTS.
- ALL FLOOR MOUNTED EQUIPMENT AND APPURTENANCES SHALL HAVE MINIMUM 6" THICK CONCRETE HOUSEKEEPING PAD WHETHER SHOWN.
- PROVIDE PULL ROOF OPENING SIZE DUCT DROP FROM EACH EXHAUST FAN, RELIEF VENTILATOR, INTAKE PENTHOUSE, RTU, OR OTHER PIECE OF MECHANICAL EQUIPMENT. WITH MOISTURE TRAP. ALL TAKE-OFFS ARE FROM SIDE OF THE DROP.
- DO NOT INSTALL PIPING, DUCTWORK OR EQUIPMENT OVER ELECTRICAL EQUIPMENT. PROVIDE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT PER NEC. COORDINATE LOCATIONS OF DUCTWORK, PIPING AND EQUIPMENT ABOVE CEILINGS WITH CABLE TRAYS.
- CONNECT ALL DUCTS TO MECHANICAL EQUIPMENT BY FLEXIBLE CANVAS DUCT CONNECTORS WITH NOT LESS THAN 3" SPACING BETWEEN DUCT AND EQUIPMENT. COORDINATE WALL, ROOF, FLOOR AND CEILING OPENINGS FOR NEW PIPE, DUCT, AND CONDUIT PENETRATIONS. PROVIDE SLEEVES AROUND PIPES AND DUCTS THROUGH ALL FLOORS, CEILINGS, WALLS, AND PARTITIONS.
- FIELD VERIFY AND COORDINATE DUCTWORK AND PROVIDE OFFSETS TO ACCOMMODATE DUCTWORK THROUGH OR BETWEEN JOISTS, BETWEEN BEAMS AND EXISTING BUILDING STRUCTURE, WALL STUDS, AND ALL TRADES NOT SPECIFICALLY LISTED AT NO ADDITIONAL COST.
- EQUIPMENT, APPLIANCES, STRUCTURAL JOISTS, BEAMS, WALLS, CEILINGS, LIGHTING FIXTURES, ELECTRICAL EQUIPMENT, AND OTHER TRADE WORK WHERE SHOWN ARE FOR REFERENCE ONLY. VERIFY AND COORDINATE IN FIELD. REFER TO RESPECTIVE DRAWINGS.
- ALL AUTOMATIC TEMPERATURE CONTROL SYSTEM WORK AND INSPECTION SHALL BE ACCOMPLISHED BY THIS CONTRACTOR. THERMOSTATS SHALL BE INSTALLED IN CLOSE PROXIMITY TO RETURN AIR INLETS UNDER THIS CONTRACT. STANDARD MOUNTING HEIGHT TO TOP OF THERMOSTAT IS 48" ABOVE FINISHED FLOOR OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS. DO NOT INSTALL THERMOSTATS NEAR DIMMER SWITCHES. WIRING OF ALL MOTORIZED OPERATORS AND THERMOSTATS, REGARDLESS OF VOLTAGE ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- CONTRACTOR SHALL MAKE ALL FINAL EQUIPMENT CONNECTIONS AND PROVIDE THE NECESSARY ADAPTERS, FITTINGS, VALVES, AND DEVICES FOR A COMPLETE OPERABLE SYSTEM. COORDINATE REQUIREMENT FOR PROVISION OF CONTRACTORS, AND CONTROL WIRING FOR PROPER FUNCTIONING SYSTEM WITH ELECTRICAL CONTRACTOR, MOTOR STARTERS, AND DISCONNECTS ARE TO BE PROVIDED BY THIS CONTRACTOR FOR INSTALLATION BY OTHERS.
- CONNECTIONS BETWEEN DISSIMILAR PIPING MATERIALS SHALL BE MADE WITH SUITABLE DIELECTRIC INSULATING UNIONS. ISOLATE COPPER PIPING FROM DISSIMILAR METALS, SUCH AS METAL STUDS AND VENT PIPING.
- PROVIDE VALVES AND UNIONS TO PERMIT DISCONNECTIONS OF EACH EQUIPMENT FOR REPAIRS.
- ALL HYDRONIC HEATING, AND CHILLED WATER PIPING SHALL BE INSULATED TO A THICKNESS ENOUGH TO MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE. INSULATE FITTINGS, JOINTS, AND VALVES WITH INSULATION OF LIKE MATERIAL AND THICKNESS AS ADJOINING PIPE. FINISH WITH GLASS CLOTH OR PVC FITTING COVERS IN LOCATIONS WHERE THE PIPING IS EXPOSED. WHERE HIDDEN, FSK OR ASJ JACKETING IS ACCEPTABLE.
- ALL PRODUCTS LOCATED WITHIN FLDNUM AREAS INCLUDING BUT NOT LIMITED TO INSULATION AND ADHESIVE SYSTEMS, SHALL HAVE A COMPOSITE FIRE HAZARD RATING NOT TO EXCEED 25 FLAME SPREAD AND 50 SMOKE DEVELOPED AS DETERMINED BY THE APPLICABLE UL OR ASTM STANDARD. ALL PIPING AND DUCTWORK IN AREAS WITH CEILINGS SHALL BE RUN CONCEALED ABOVE ACoustICAL OR PLASTER CEILINGS UNLESS OTHERWISE NOTED.
- SUPPORT ALL PIPING FROM STRUCTURE WITH UL LISTED HANGERS AND SUPPORTS SUITABLE FOR THE INTENDED INSTALLATION. DESIGN, SELECTION, SPACING, AND APPLICATION OF HANGERS AND SUPPORTS SHALL COMPLY WITH ANSI B31.1 AND MSS 55F-69. SUPPORT FROM DECKING IS NOT PERMITTED.
- CONNECT & EXTEND CONDENSATE DRAIN PIPING FROM EACH SS, DOAS, MFC, SBC, CHILLED WATER OR DX COIL TO INDIRECT WASTE DRAINS ONLY. PROVIDE MINIMUM 1" PIPE SIZE AND 2 PERCENT SLOPE FOR GRAVITY DRAINS AND 1 PERCENT SLOPE FOR PUMPED DRAINS. CONDENSATE PIPING SHALL BE INSULATED WITH A MINIMUM OF 1/2" CLOSED CELL ELASTOMER.
- ALL OPENINGS IN DUCTS, PIPES OR FITTINGS SHALL BE KEPT PLUGGED OR CAPPED UNTIL CONNECTED.
- ALL PIPING SYSTEMS, VALVES, DAMPERS, AND EQUIPMENT SHALL BE PROPERLY IDENTIFIED. ALL DAMPERS AND VALVES SHALL HAVE THEIR NORMAL (IN OPERATION) POSITION IDENTIFIED, SUCH AS "NORMALLY OPEN" OR "NORMALLY CLOSED". ALL DAMPERS AND VALVES SHALL BE PROVIDED AND INSTALLED WITH EXTENDED STEMS AND, OR HANDLES SO OPERATION OF SUCH DEVICES IS NOT AFFECTED BY INSULATION.
- INSTALL CEILING MOUNTED 24x24 EGG CRATE RETURN GRILLES IN ALL CLOSED SPACES, WHETHER SHOWN ON THE DRAWINGS. INSTALL PRICE INDUSTRIES RETURN AIR CANOPY, MODEL RAC ON ALL RETURNS PER MANUFACTURER'S INSTRUCTIONS.
- ALL PACKAGED EQUIPMENT SHALL BE INDEPENDENTLY THIRD PARTY LABELED AS A SYSTEM FOR ITS INTENDED USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) IN ACCORDANCE WITH OSHA FEDERAL REGULATIONS 29CFR 1910.303 AND .399, AS WELL AS NFPA Pamphlet NO. 70, AND THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 90-7.
- CLEAN ALL MECHANICAL EQUIPMENT AND DUCTWORK OF ALL CONSTRUCTION DUST AT PROJECT COMPLETION. REPLACE ALL FILTERS PRIOR TO AIR BALANCING. PROVIDE ONE SPARE SET OF FILTERS FOR EACH PIECE OF EQUIPMENT TO OWNER. NEWLY INSTALLED HVAC EQUIPMENT SHALL NOT BE USED AT ANY TIME FOR TEMPORARY CONDITIONING OF THE SPACE DURING CONSTRUCTION.
- AIR AND WATER BALANCING SHALL BE PERFORMED BY AN AABC CERTIFIED CONTRACTOR. THIS CONTRACTOR SHALL BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER. GPM'S SHALL BE BALANCED WITHIN 1.0% OF DESIGN. AFTER ALL AIR SYSTEMS ARE INSTALLED, EACH SUPPLY AIR OUTLET SHALL BE AIR BALANCED TO WITHIN 1.0% OF THE CFM SHOWN WITH AIR PATTERNS SET AS INDICATED ON DRAWINGS (OR WITHIN 1.0 CFM WHEN BELOW 1.00 CFM). FAN RPM'S AND ZONE DAMPERS SHALL BE ADJUSTED AND SHEAVES SHALL BE REPLACED AS REQUIRED TO ACHIEVE AIR BALANCE. AABC ASHRAE FORMAT AIR BALANCE REPORTS SHALL BE CERTIFIED BY THE BALANCING AGENCY AND SUBMITTED TO THE ENGINEER. SHOULD THE AIR BALANCE REPORT INDICATE UNACCEPTABLE DUCT LEAKAGE, AS DETERMINED BY THE ENGINEER, THEN DUCT LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AABC STANDARDS. DUCT SHALL BE RESEALED AND/OR REPAIRED AS REQUIRED TO MEET DESIGN REQUIREMENTS. ALL, OR PORTIONS OF THE SYSTEM SHALL BE REBALANCED AS REQUIRED UNTIL ALL SYSTEMS ARE WITHIN THE PERFORMANCE STANDARDS LISTED ABOVE.

MECHANICAL SERIES

NUMBER	NAME
M-001	HVAC ABBREVIATIONS AND GENERAL INFORMATION
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M-102	SECOND FLOOR PLAN - HVAC
M-103	MECHANICAL DETAILS
M-601	HVAC SCHEDULES

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DATE : 01/08/2024
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