

ABBREVIATIONS

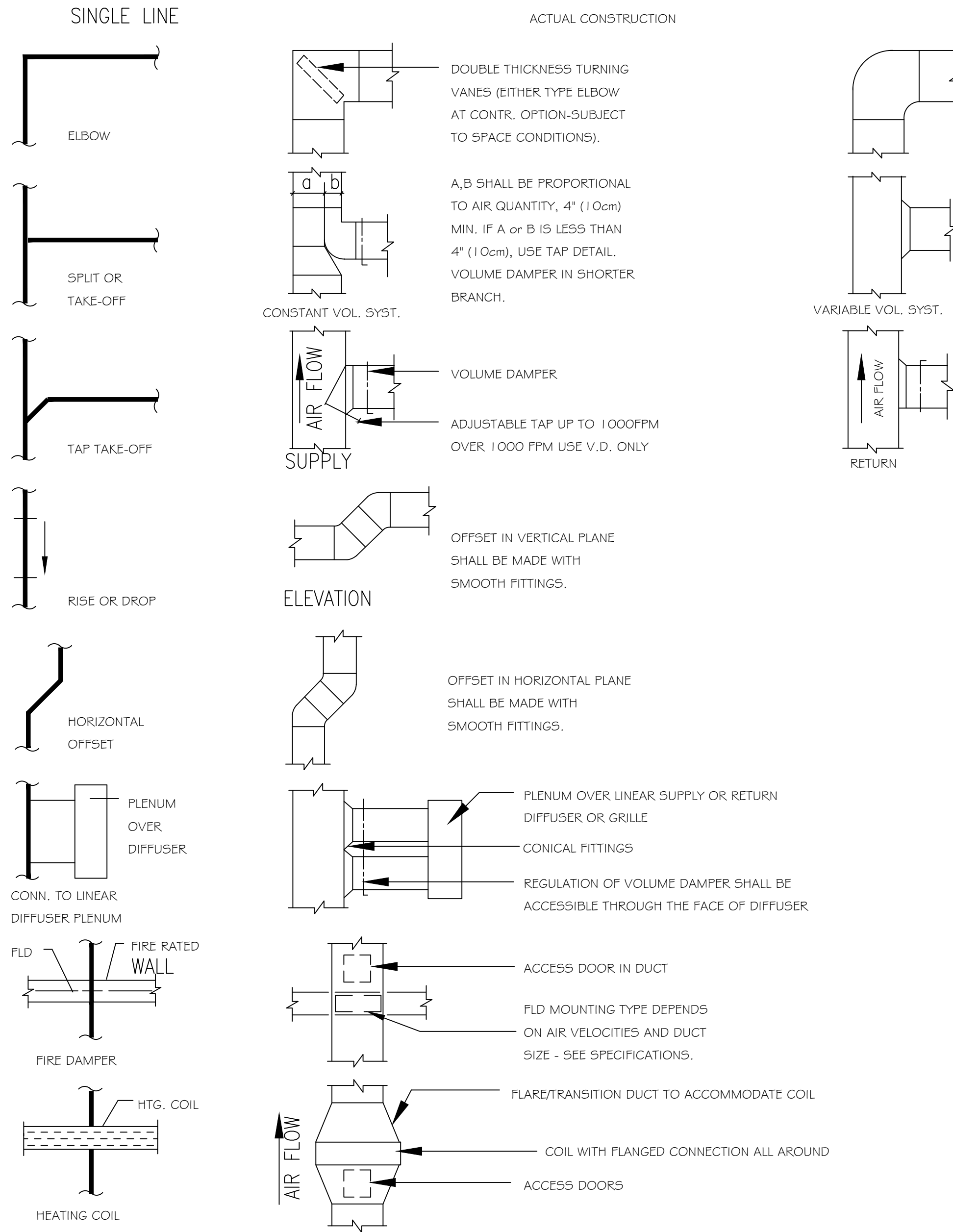
A	AMPERES	"F	DEGREES FAHRENHEIT
AB	ABOVE	F & T	FLOAT AND THERMOSTATIC
AC	AIR CONDITIONING UNIT	FA	FREE AREA (SQ. FT.)
ACCU	AIR COOLED CONDENSING UNIT	FAI	FRESH AIR INTAKE
AHU	AIR HANDLING UNIT	FC	FLEXIBLE CONNECTION
AD	ACCESS DOOR	FD/AD	FIRE DAMPER W/ ACCESS DOOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS	FD	FLOOR DRAIN
AFD	ADJUSTABLE FREQUENCY DRIVE	G	GAS
AFF	ABOVE FINISHED FLOOR	GA	GAUGE
AL	ACOUSTICAL LINING	GC	GENERAL CONTRACTOR
ALD	AUTO. LOUVER DAMPER	GL	GALLON
AP	ACCESS PANEL	GLS	GLYCOL WATER SUPPLY
AS	AIR SEPARATOR	GLR	GLYCOL WATER RETURN
AUTO.	AUTOMATIC	GPM	GALLONS PER MINUTE
BTU	BRITISH THERMAL UNIT	GX	GENERAL EXHAUST
BTUH	BTU PER HOUR	HX	HEAT EXCHANGER
EF	EXHAUST FAN	REQD	REQUIRED
EL	ELEVATION	RF	RETURN FAN
ELEC	ELECTRIC	RG	RETURN GRILLE
EOD	END OF DUCT	RFG	REFRIGERANT GAS
EQ	EQUAL	RL	REFRIGERANT LIQUID
		W	WIDTH
		WEST	WEST
		W/	WITH
		W/O	WITHOUT
		WB	WET BULB

KEY TO SYMBOLS

INSTRUMENTATION		EQUIPMENT	
(T)	THERMOSTAT		BASEBOARD RADIATION
(H)	HUMIDISTAT		CABINET HEATER
(F)	FIRESTAT		DUCT MOUNTED UNIT HEATER
(G)	GAS DETECTOR		HORIZONTAL UNIT HEATER
(S)	REMOTE TEMPERATURE SENSOR		PUMP
(DD)	DUCT DETECTOR		COILS
(RM)	REFRIGERANT LEAK DETECTOR		CENTRIFUGAL FAN OR PUMP
(TH)	TEMPERATURE AND HUMIDITY RECORDER		ELECTRIC HEATER
(LD)	LIQUID DETECTOR		CEILING EXHAUST FAN
(↑)	PRESSURE GAUGE		CENTRIFUGAL ROOF FAN
(F)	FLOW SWITCH		VARIABLE FREQUENCY DRIVE
(•)	THERMOMETER		ANNOTATION
(EP)	ELECTRIC PNEUMATIC SWITCH		CONNECT TO EXISTING
(PE)	PNEUMATIC ELECTRIC SWITCH		LIMIT OF REMOVAL
(ESAP)	ENVIRONMENTAL SENSOR ALARM PANEL		
(P)	MANUAL POTENTIOMETER		

INTERPRETATION OF SINGLE LINE DUCTWORK

WHERE DUCTWORK IS SHOWN SINGLE LINE, FOLLOWING SHALL APPLY FOR ACTUAL DUCT CONSTR.



NOTE:
THE KEY OF SYMBOLS INDICATED IS FOR CONVENIENCE ONLY AND ITEMS INDICATED ARE NOT NECESSARILY WITHIN THE SCOPE OF THE WORK.

NAME OF OWNER
40 E 83 , 5 W, NEW YORK, NY

NAME OF CONSULTANT
SYED ENGINEERING PC
95 KRUG PLACE
MINEOLA, NY 11501

NAME OF CONTRACTOR:

NAME OF PROJECT:
40 E 83 , 5 W, NEW YORK, NY

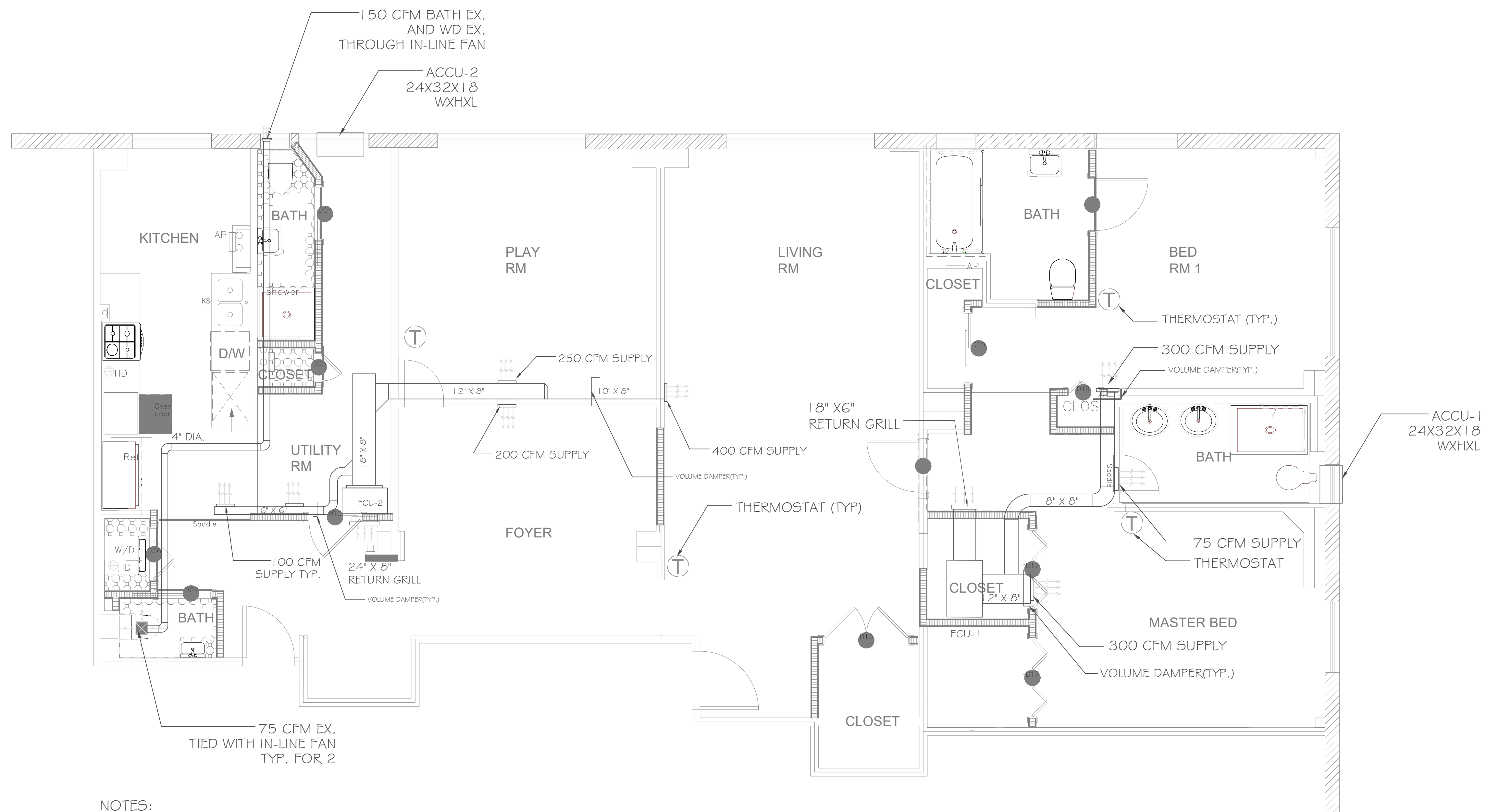
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SCOPE OF WORK:

DRAWING TITLE:
LEGENDS & ABBREVIATIONS

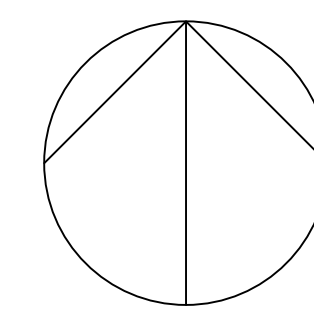
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NOTES:

1. A RECIRCULATION FAN CAN BE INSTALLED IN EACH BATHROOM.
2. THERMOSTATES ARE TO BE SYNCHRONISED INDEPENDENTLY TO THE ACCU AND RESPECTIVE FCU UNITS..
3. EACH TOILET WITHOUT NATURAL VENTILLATION REQUIRED 75 CFM EXHAUST.
4. CONTRACTOR NEEDS TO VERIFY EXISTING CONDITION AT THE FIELD BEFORE STARTING THE PROJECT.
5. FINAL LOCATIONS OF ALL THERMOSTAT, REGISTERS, ACCESS PANELS, ETC. TO BE COORDINATED WITH ARCHITECT.
6. PROVIDE SUPPLY AND RETURN DUCTWORK WITH 1/4" ACOUSTIC LINING A MIN. OF 12' FROM AC UNIT. DUCT DIMENSIONS ON PLAN INDICATE INSIDE CLEAR DIMENSIONS. PROVIDE EXTERNAL INSULATION ON ALL SUPPLY AND RETURN DUCTS WITHOUT INTERNAL ACOUSTIC LINING. ACOUSTIC LINING AND/OR EXTERNAL INSULATION SHALL HAVE A MINIMUM THERMAL RESISTANCE VALUE OF R-6 OR GREATER. ALL OUTSIDE AIR DUCTWORK TO BE EXTERNALLY INSULATED THROUGHOUT.
7. ALL VOLUME DAMPERS (COD) SHALL BE CABLE OPERATED DAMPERS ADJUSTABLE FROM FACE OF SUPPLY DIFFUSER/GRILLE WHERE NOT EXPOSED OR ACCESSIBLE BY REMOVABLE ACCESS PANEL. PROVIDE VOLUME DAMPERS WHERE INDICATED, ON EVERY FINAL BRANCH DUCT ENDING IN A DIFFUSER/GRILLE, AND/OR EVERY SIDEWALL DIFFUSER/GRILLE. REFER TO RISER DIAGRAM.
8. PROVIDE AUXILIARY DRAIN PANS UNDER ALL AC UNITS WITH LEAK DETECTOR WIRED TO SHUT DOWN THE UNIT UPON DETECTION OF WATER IN THE PAN.
8. ALL DUCTWORK CONNECTIONS TO VIBRATING EQUIPMENT (AC UNITS, FANS, ETC.) SHALL BE MADE WITH FLEXIBLE DUCTWORK CONNECTIONS.



PROJECT NORTH

SCALE: 1/4"=1'

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MINEOLA, NY 11501

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40 E 83 , 5 W, NEW YORK, NY

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MEP_40_E_83_5W

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MECHANICAL PLAN

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OUTDOOR UNIT INFORMATION

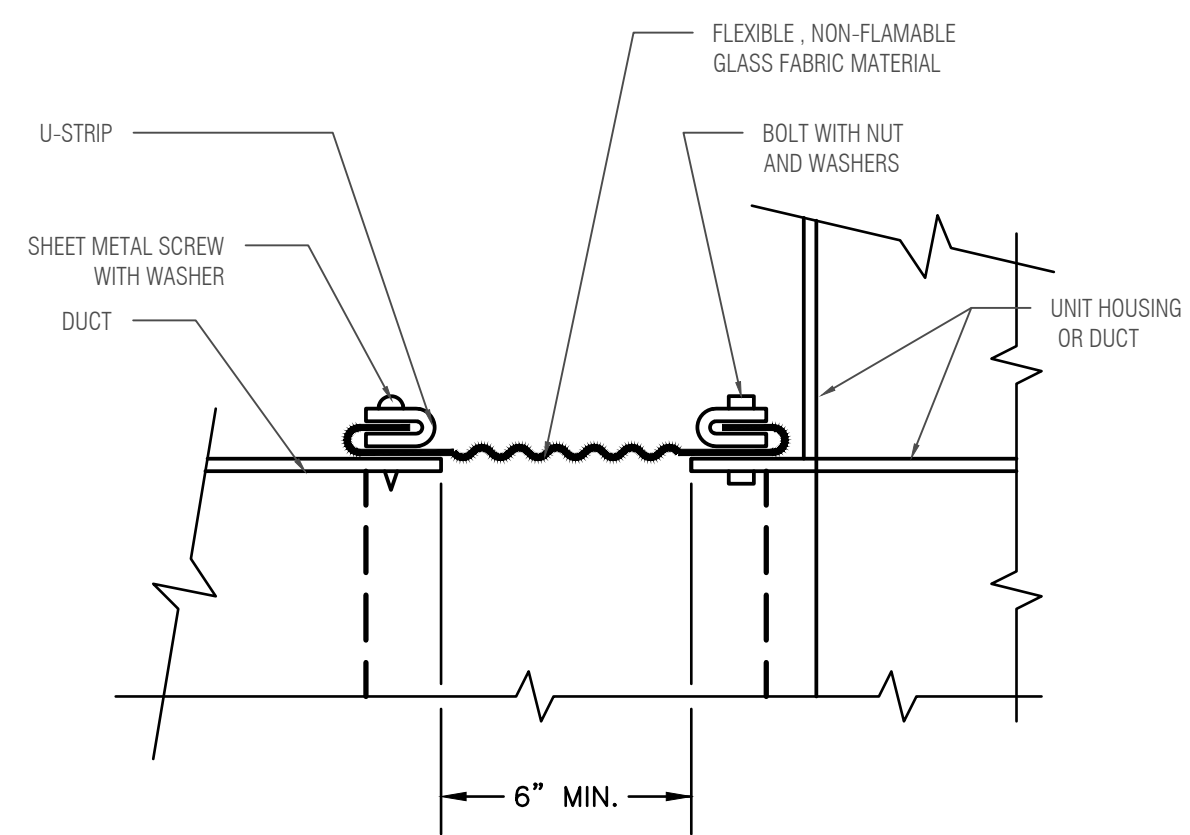
SYSTEM	LOCATION	SERVES	RATED CAPACITY		CURRENT MCA AMPS	POWER SOURCE 1 Φ	DESIGN CONDITION		COMPRESSOR		FAN		COIL FPI	COP	SEER	MODEL	MAKE	REMARKS
			COOLING	HEATING			SUMMER IWT (F)	WINTER IWT (F)	QUANTITY	RLA	HP	RPM						
ACCU-1	MASTER BATH	BEDS	18000	15500	13.47	208/230	86	68	1	9	0.2	1650	15	3.5	13	NHPA-418-5019	NATIONAL COMFORT	26.8x38.8x18.5
ACCU-2	UTILITY BATH	LIVING/PLAY	26800	23600	18.21	208/230	86	68	1	12.8	0.2	1650	15	3.5	13	ARUN053GSS4	LG	

INDOOR UNIT INFORMATION

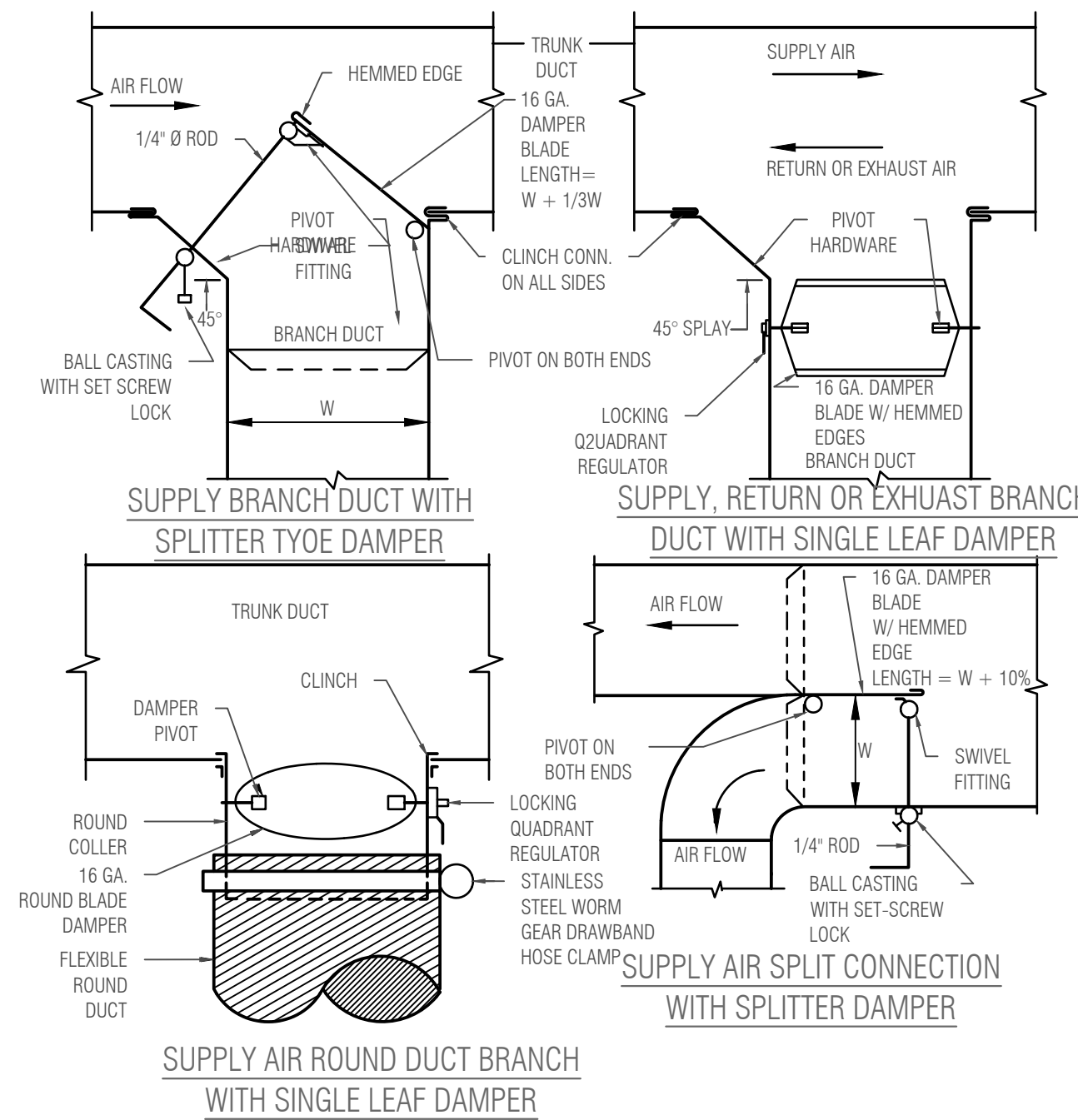
UNIT NO.	SERVES LOCATION (Floor-Room)	RATED CAPACITY (BY INDOOR UNIT)		CURRENT MCA (Amp)	COIL TXW/A-COIL	MOTOR HP	FAN CAPACITY (CFM)	SOUND PRESSURE dB(A) (H/M/L)	POWER SOURCE 1 Φ	DESIGN CONDITION				MODEL	MAKE	DIMENSIONS HxWxD
		COOLING (Total)	HEATING							COOLING DRY BULB TEMP	RELATIVE HUMIDITY	HEATING WET BULB TEMP	DRY BULB TEMP			
FCU-1	Master BED	18,000	15,500	2.6	TXW/A-COIL	0.33	600	42/36/27	208/230V	72	60	62.8	70	FM(U,C)4Z-18	CARRIER	10x37x27
FCU-2	LIVING/PLAY	24,000	23,600	2.6	TXW/A-COIL	0.33	800	41/36/27	208/230V	72	60	62.8	70	FM(U,C)4Z-24	CARRIER	10x37x27

EXHAUST FAN

Air Flow - CFM	PERFORMANCE								HVI Sones @ .1 SP	Fan Speed RPM	Power Watts
	Static Pressure (inches of w.g.)										
	0	0.05	0.1	0.125	0.15	0.2	0.25	0.3			
79	74	70	68	66	62	57	50	1.5	1300	30	

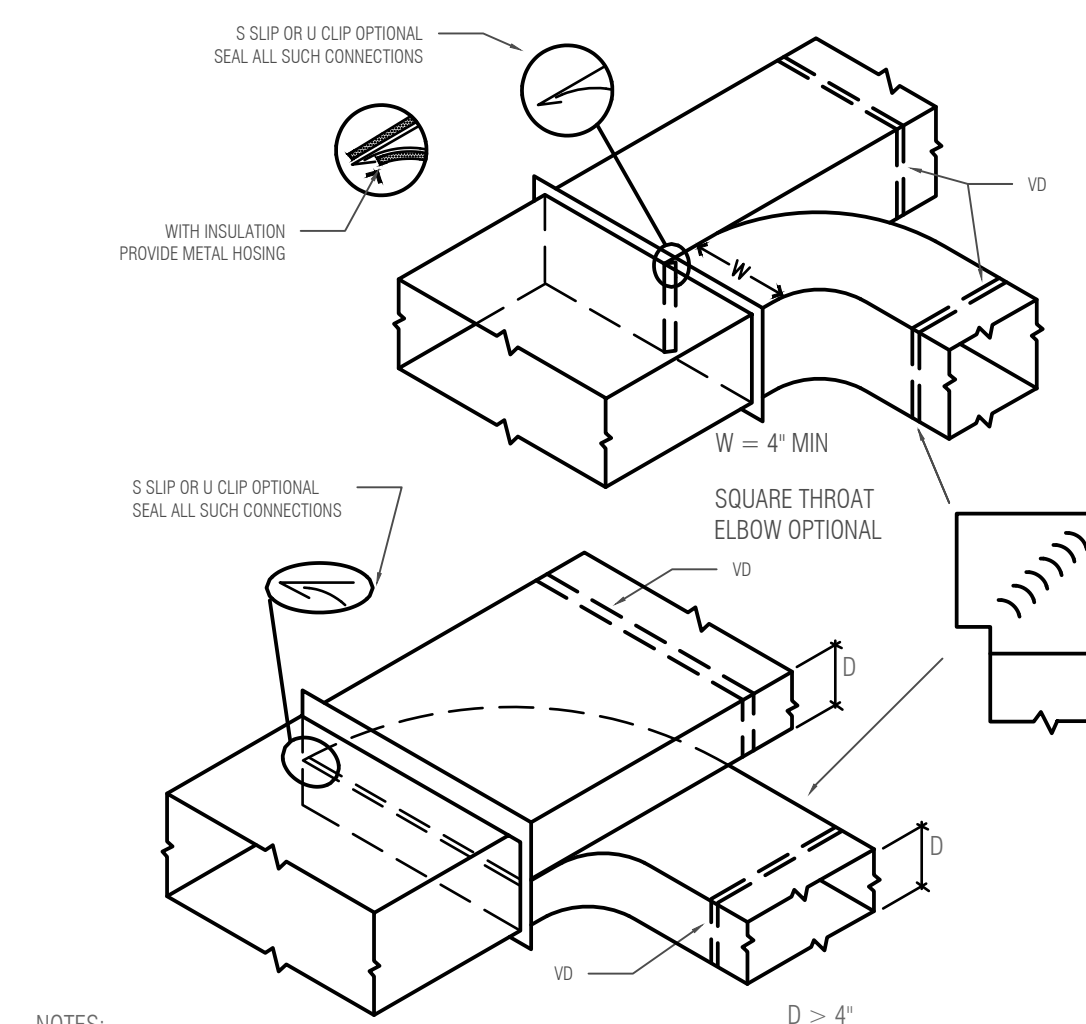


FLEXIBLE CONNECTION
NOT TO SCALE

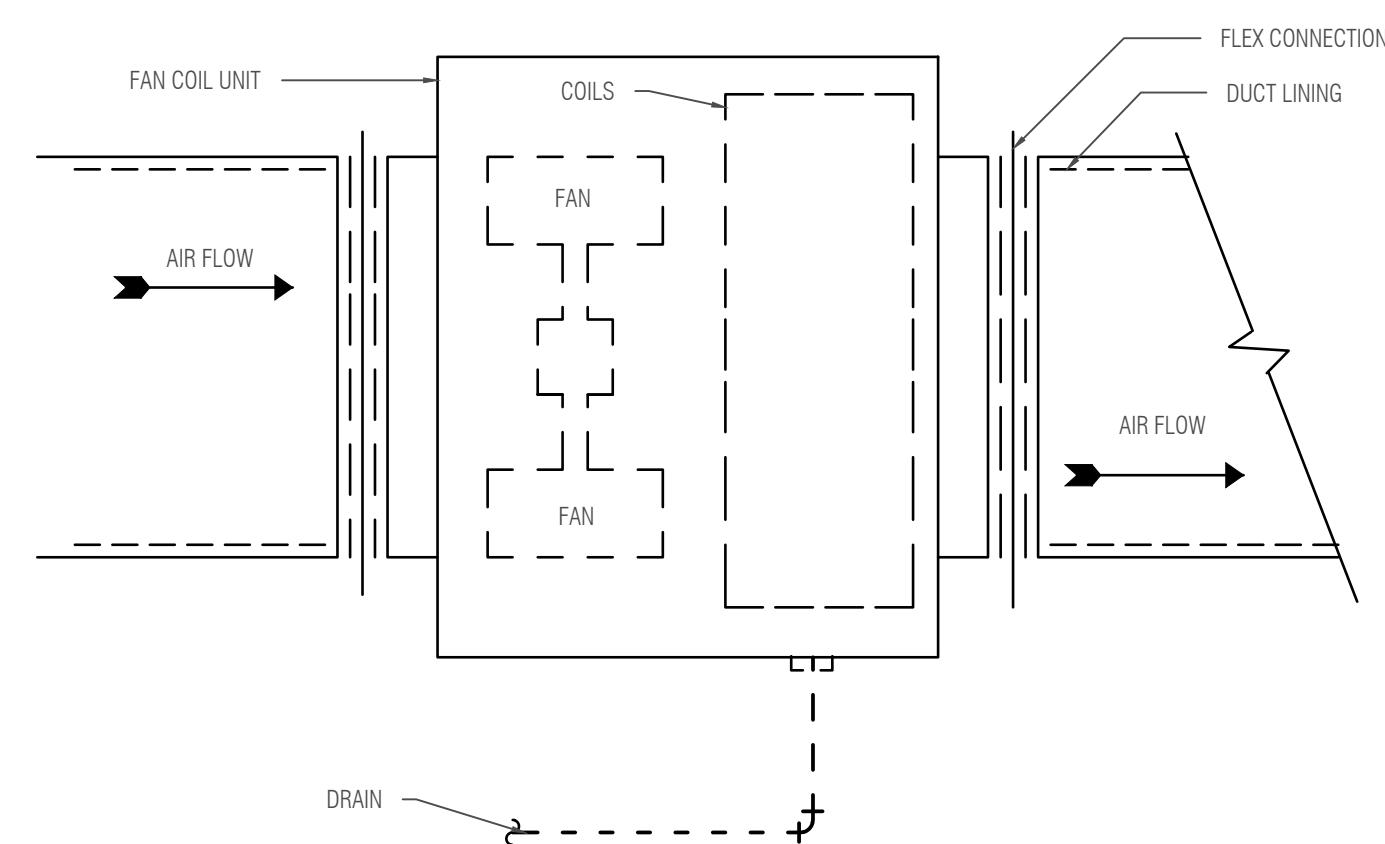


NOTES:
1. PROVIDE ALL BRANCH DUCTS WITH MANUALLY OPERATED VOLUME DAMPERS FOR BALANCING AIR SYSTEM. THESE DAMPERS SHALL BE INDEPENDENT OF DAMPERS FURNISHED WITH DIFFUSERS AND REGISTERS, WHICH SHALL ONLY BE UTILIZED FOR TRIM BALANCING WITHOUT GENERATING NOISE.
2. FOR DUCTS WIDER THAN 48" USE MULTIPLE SINGLE LEAF DAMPERS OR OPPOSED-ACTION MULTI-BLADE DAMPERS; EACH WITH LOCKING QUADRANT REGULATOR.

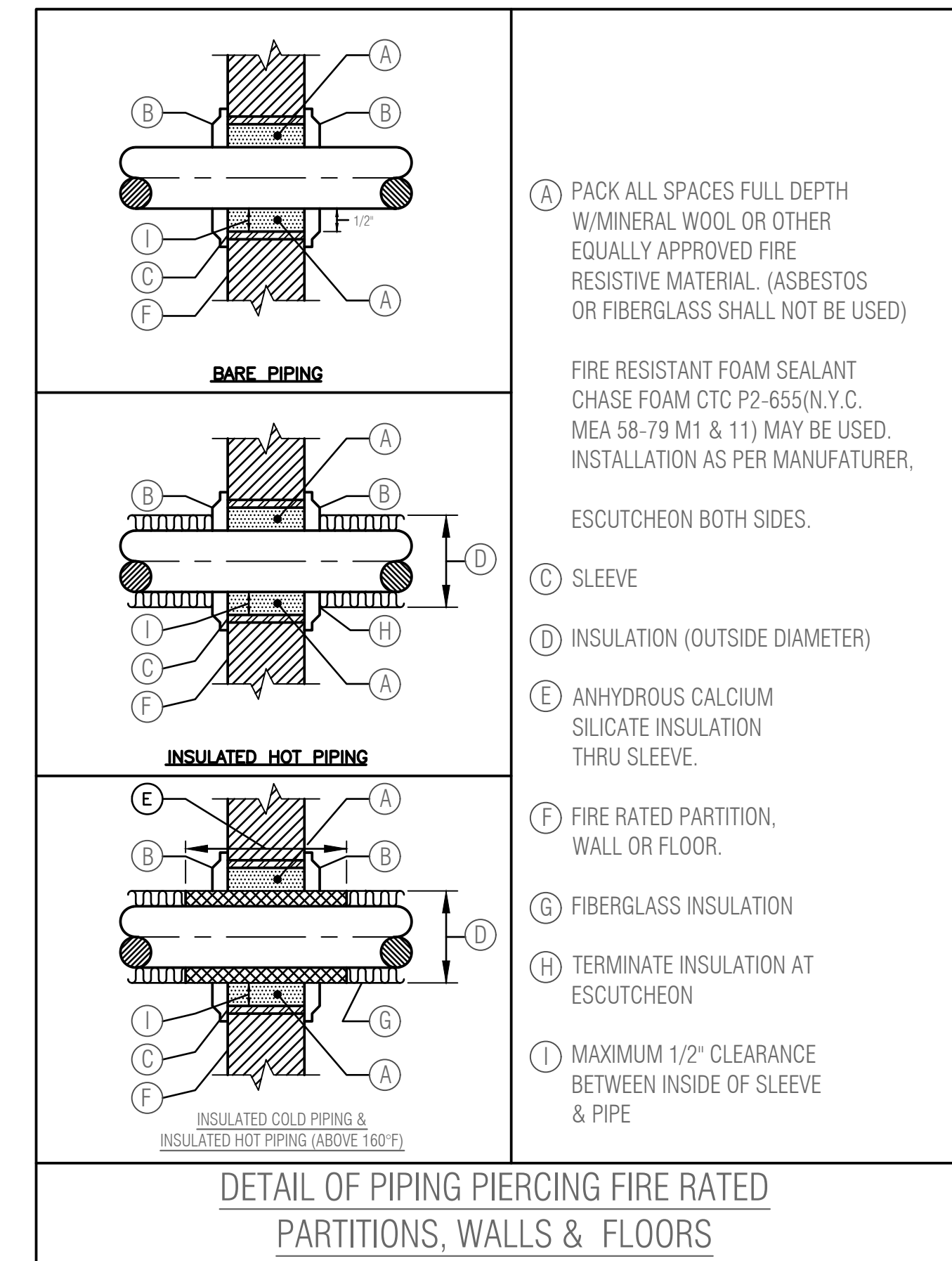
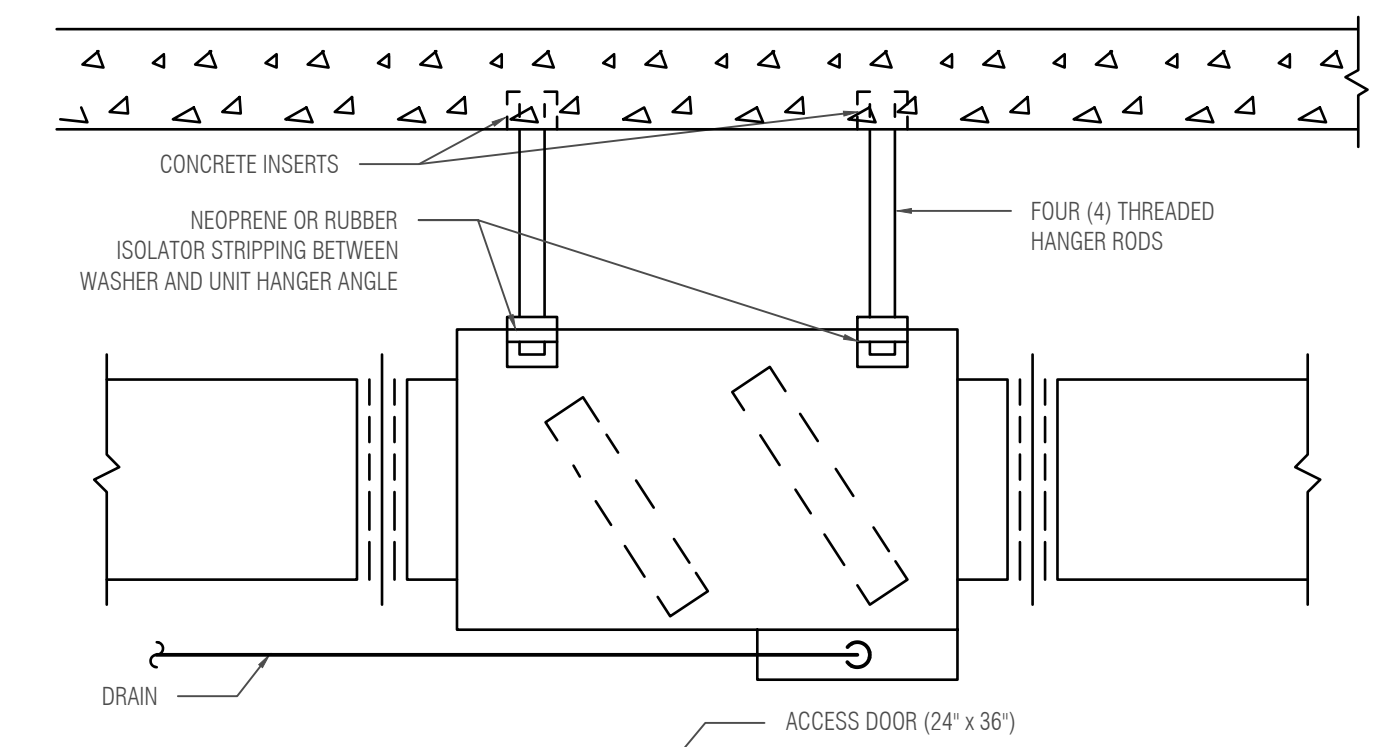
BRANCH DUCT VOLUME DAMPERS



NOTES:
1. VOLUME CONTROL SHOULD BE BY BRANCH DAMPERS. IF SPLITTER INCLUDED IN DESIGN, SPLITTER LENGTH = 1.5W OR 1.5D
D > 4"
PARALLEL FLOW BRANCHES
NOT TO SCALE



FAN COIL UNIT DETAIL



DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS & FLOORS

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GENERAL NOTES

MECHANICAL SPECIFICATIONS

1. GENERAL CONDITIONS

A.THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.

B.THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.

C.THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COSTS TO THE OWNER.

2. OPERATING & MAINTENANCE INSTRUCTIONS

A.AFTER FINAL TESTS AND ADJUSTMENTS, FULLY INSTRUCT OWNER IN ALL DETAILS OF OPERATION FOR EQUIPMENT INSTALLED.

B.PROVIDE TO THE OWNER OPERATION AND MAINTENANCE MANUALS.

C.GUARANTEE AND SERVICE.

i.THE CONTRACTOR SHALL DURING THE PERIOD OD GUARANTEE REPLACE OR REPAIR AT HIS OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING WORK CAUSED BY THE FAILURE REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT AT HIS OWN EXPENSE.

3. SHOP DRAWINGS & EQUIPMENT SUBMISSIONS

A.TWO (2) COPIES OF DUCTWORK AND PIPING AND CERTIFIED EQUIPMENT MANUFACTURER'S DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION, ERECTION OR PURCHASE.

B.PRODUCT DATA = SUBMIT MANUFACTURER'S PRINTED LITERATURE CATALOG CUTS, CERTIFIED EQUIPMENT PERFORMANCE DATA, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS.

C.SHOP DRAWING = SUBMIT PLANS, SECTIONS, DETAILS, SCHEDULES AND CALCULATIONS, LAYOUTS SHALL BE DOUBLE LINE, SCALE; 3/8"=1'-0" COORDINATED WITH OTHER TRADES AND WITH BUILDING CONSTRUCTION ELEMENTS. SUBMIT ONE REPRODUCIBLE AND FIVE (5) PRINTS OF EACH DRAWING.

D.MAINTENANCE MANUALS = PREPARE OPERATING AND MAINTENANCE MANUAL INCLUDING THE FOLLOWING:

i.MANUFACTURER'S LITERATURE DESCRIBING EACH PIECE OF EQUIPMENT.

ii. COPIES OF PRODUCT WARRANTIES AND GUARANTIES.

iii. OPERATING AND MAINTENANCE PROCEDURES, SERVICING INSTRUCTIONS.

E.ALL SHOP DRAWINGS MUST BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION PROCEEDS.

4. RECORD DRAWINGS

A.REPRODUCIBLE RECORD DRAWINGS SHALL BE SUPPLIED UPON WHICH CORRECTIONS SHALL BE MADE TO PROVIDE AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.

B.AS-BUILT INFORMATION SHALL BE SUBMITTED AS FOLLOWS:

i.PDF DRAWING FILES ON DISKS.

ii. TWO (2) SETS OF BLUEPRINTS.

5. TESTING, ADJUSTMENTS AND BALANCING

A.IT IS THE INTENT UNDER THIS SECTION OF THE WORK TO OBTAIN COMPLETE BALANCING OF EACH AND EVERY FAN, BRANCH DUCTWORK, AIR CONDITIONING UNIT, WATER SYSTEM, AIR OUTLET DAMPER ETC.

B.MAKE ALL REQUIRED ADJUSTMENTS OF AIR SYSTEM DEVICES UNIT ALL SPECIFIED PERORMANCES ARE MET.

C.SYSTEM BALANCING SHALL BE PERFORMED BY AN ORGANIZATION SPECIALIZING IN THE PROCEDURES TO DO SO, HAVING AT LEAST FIVE (5) YEARS EXPERIENCE.

D.BALANCING MUST CONFORM TO LATEST RECOMMENDATIONS OF THE AABC.

6. ELECTRICAL WIRING AND WIRING DIAGRAMS

A.ELECTRICAL WIRING FOR POWER AND MOTOR STARTERS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNDER ANOTHER DIVISION OF CONTRACT WORK.

B.THE MECHANICAL CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL TERMINAL POINT, COMPLETELY COORDINATED AND INTEGRATED WIRING DIAGRAMS FOR ALL WIRING REQUIRING FIELD INSTALLATIONS BY THE ELECTRICAL CONTRACTOR.

C.SPECIFIC WIRING DIAGRAMS OF FACTORY INSTALLED EQUIPMENT WIRING SHALL ALSO BE SUBMITTED FOR APPROVAL AND FURNISHED TO THE ELECTRICAL CONTRACTOR FOR HIS INSTALLATION REQUIREMENTS AND OTHER USES.

D.ALL CONTROL SHALL BE ELECTRIC. ALL ELECTRICAL WORK TO BE IN ACCORDANCE WITH UCC, PRVIDE REQUIRED TRANSFORMER SWITCHES, SENSORS, RELAYS AND ALL WIRING REQUIRED TO ACCOMPLISH FULL CONTROL.

E.ALL WIRING, STARTERS, SWITCHES, ETC. SHALL BE IN FULL ACCORDANCE WITH ALL LOCAL AND INSURANCE UNDERWRITERS' CODE REQUIREMENT.

F.FURNISH DETAILED COMPOSITE WIRING DIAGRAMS FOR THOSE INSTALLING THE ELECTRICAL WORK AND FIRNISH SUCH OTHER INFORMATION NECESSARY TO ASSURE THE PROPER CONNECTION, OPERATION AND CONTROL OF MOTORIZED EQUIPMENT, INCLUDING INTERLOCKS, AUTOMATIC OR SAFETY CONTROLS AND AUXILIARY CIRCUITS.

7. CODES, PERMITS AND INSPECTIONS

A.ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENT OF NYC BUILDING CODE AND OTHER AUTHORITIES EXERCISING JURISDICTION OF THE WORK OF THIS PROJECT.

B.ANY PORTION OF WORK WHICH IS NOT SUBJECT TO THE APPROVAL OF AN AUTHORITY HAVING JURISDICTIONS SHALL BE PROVIDED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION REQUIREMENTS.

C.SECURE PERMITS AND INSPECTION CERTIFICATES AND TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK.

8. COORDINATION

A.MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADE.

B.WHERE PIPING, LIGHTS AND DUCTWORK CONFLICT, DUCTWORK SHALL BE COORDINATED TO SITE CONDITIONS.

C.CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL AIR OUTLETS THERMOSTATS AND SWITCHES WITH OWNER.

D.COORDINATE LOCATION OF MECHANICAL EQUIPMENT, PIPING AND DUCTWORK WITH THE WORK OF OTHER TRADES, PROVIDING CLEARANCES FOR INSULATION, SERVICING, REMOVAL OF COMPONENTS AND EQUIPMENT DISASSEMBLY.

E.COORDINATE PROVISION OF OPENINGS IN WALLS AND SLABS, POURING OF CONCRETE PADS, SETTING OF SLEEVES AND CURBS.

F.SEQUENCE PHASES OF MECHANICAL WORK WITH THE WORK OF OTHER TRADES.

9. VIBRATION ISOLATION SYSTEM

A.ALL ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, SHALL BE FURNISHED WITH SEISMICALLY DESIGNED VIBRATION ISOLATORS, TO PREVENT THE TRANSMISSION OF OBJECTIONABLE NOISES, SOUND OR VIBRATIONS TO THE OCCUPIED SPACES AND TO THE BUILDING STRUCTURES.

B.VIBRATION ISOLATORS FOR CEILING SUPPORTED EQUIPMENT SHALL HAVE A MAXIMUM LATERAL MOTION UNDER EQUIPMENT STARTUP OR SHUTDOWN CONDITIONS OF ¼". MOTIONS IN EXCESS SHALL BE RESTRAINED BY SPRING TYPE MOUNTAINS.

C.VIBRATION ISOLATOR SHALL BE PROVIDED BY WITHER OF THE FOLLOWING MANUFACTURERS:

i.MASON INDUSTRIES

ii. VIBRATION ELIMINATOR CO.

iii. CONSOLIDATED KINETICS CO.

10. SHEET METAL DUCTWORK

A.ALL DUCTWORK, DAMPERS, AND ALL AUXILIARY DEVICES AND WORK NECESSARY TO MAKE THE VARIOUS AIR CONDITIONING AND VENTILATING SYSTEMS COMPLETE AND READY FOR SATISFACTORY OPERATION SHALL BE FURNISHED AND INSTALLED.

B.ALL LOW PRESSURE DUCTS SHALL BE GALVANIZED STEEL WITH SEAMS, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DCT MANUAL STANDARDS.

C.IN ACCORDANCE WITH SMACNA STANDARDS PROVIDE DUCTWORK CASING ACCESS DOORS TO ALL CONCEALED CONTROL OF DAMPERS, ETC.

D.PROVIDE MANUAL QUADRANT DAMPERS IN EACH SPUT OR TAP CONNECTION SUPPLY AIR BOOT CONNECTION AND BRANCH DUCT TO AIR OUTLETS FOR BALANCING PURPOSES. EACH PROVIDED WITH EXTENDED OPERATOR AND LOCKING DEVICE. PROVIDE CORD OPERATED DAMPERS IN INACCESSIBLE CEILINGS ONLY.DO NOT INSALL DAMPER ON MEDIUM PRESSURE DUCT WORK.

E.DUCTWORK LAYOUTS AND ROUTES AS SHOWN ON THE DRAWINGS ARE SCHEMATIC THEREFORE CHANGES IN DUCT SIZES AND/OR LOCATIONS SHALL BE MADE WHERE NECESSARY TO CONFORM TO SPACE CONDITIONS OR OBTAIN MAXIMUM HEADROOM CONDITIONS; WITHOUT ADDITIONAL COSTS TO THE OWNER FACE.

11. INSULATION REQUIREMENTS

A.INSULATION SHALL BE APPLIED TO DUCTWORK AND PIPING OF MATERIALS AS SPECIFIED BELOW.

B.INSULATION SHALL HAVE COMPOSITE (INSULATION OF FACING AND ADHESIVE USED TO ADHERE THE FACING TO THE INSULATION) FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCADURE ASTM, E.84, NFPA 255 OR UL 723 NOT EXCEEDING

i.FLAME SPREAD

ii. SMOKE DEVELOPED

ACCESSORIES SUCH AS ADHESIVES, MASTICS, CEMENTS AND TAPES FOR FITTINGS SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE, ALL PRODUCTS OR THEIR SHIPPING CARTONS SHALL BEAR A LABEL INDICATING THAT FLAME AND SMOKE RATINGS DO NOT EXCEED REQUIREMENTS, TREATMENT OF FACINGS TO IMPART FLAME AND SMOKE-SAFETY SHAL BE PERMANENT. THE USE OF WATER-SOLUBLE TREATMENTS IS PROHINITED.

C. DUCTWORK INSULATION MATERIAL

i. DUCT INSULATION SHALL BE 1 LB. PER CU. FT. DENSITY GLASS FIBER WITH A MAXIMUM K FACTOR OF 0.29 AT 75°F MEAN TEMPERATURE, WITH REINFORCED FOIL-FACED, FLAME RESISTANT KRAFT VAPOR BARRIER.

ii. INSULATION SHALL BE SECURED WITH DUCT ADHESIVE ALL JOINTS SHALL BE SEALED BY ADHERING A 2" SEALING LAP AT JOINTS WITH VAPOR BARRIER ADHESIVE OR 2" STRIPS OF VAPER BARRIER JACKET APPLIED WITH VAPOR BARRIER ADHESIVE, INSULATION SHALL THEN BE FASTENED WITH 18 GAUGE COPPER-CLAD WIRE OR FIBER GLASS CORD ON 12"CENTERS ON DUCTS OVER 24" WIDE WELDED PINS AND CLIPS SHALL BE USED ON THE UNDERSIDE.

12. EQUIPMENT SCHEDULE

A.FURNISH AND INSTALL ALL ITEMS AS HEREIN SPECIFIED OR SHOWN ON DRAWINGS AND THOSE ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.

13. GUARANTEE

A.CONTRACTOR SHALL GUARANTEE INSTALLATION OF HIS WORK FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE OF ENTIRE PROJECT BY THE OWNER.

14. RIGGING

A.CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING, LADDERS AND SERVICES NECESSARY FOR ACCESS TO WORK SPACES, FOR DELIVERY INTO THE BUILDING, AND FOR SETTING IN PLACES OF ANY MATERIAL, EQUIPMENT OR APPARATUS FURNISHED OR INSTALLED.

15. AIR OUTLETS

A.MARGIN TYPES, COLORS, FINISH AND METHODS OF ATTACHMENTS FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING AND WALL DETAILS AND SPECIFICATIONS.

B.FRAME TYPE SUITABLE FOR MOUNTING IN CEILING OR WALL CONSTRUCTION SHALL BE CLIPPED TYPE. COUNTER SUNK SCREWS SHALL NOT NE USED UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS.

C.EXACT LOCATION OF ALL AIR OUTLETS AS PER ARCHITECTURAL PLANS.

D.SUITABLE FOR OPERATION AT 5 PERCENT EXCESS AND 25 PERCENT LESS THAN NOTED CAPACITY. MANUFACTURER RESPONSIBLE FOR EXAMINING APPLICATION OF EACH OUTLET AND GUARANTEE THAT EACH WILL PROVIDE REQUIRED NC LEVELS AND COMFORT SPACE CONDITIONS WITHOUT DRAFTS THROUGHOUT OPERATING RANGE.

E.ALL REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME DAMPERS, DAMPER OPERATOR SHALL BE ACCESSIBLE THROUGH THE FACE OF THE AIR OUTLET.

16. ESCUTCHEONS

A.PROVIDE ESCUTCHEONS ON EXPOSED PIPES WHEREVER THEY PASS THROUGH FLOORS, CEILINGS, WALLS OR PARTITIONS.

17. CLEAN UP

A.UPON COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE ALL OF HIS TOOLS, EQUIPMENT AND UNUSED MATERIALS FROM THE PREMISES AND SHALL REMOVE ALL DEBRIS AND WASTER PERIODICALLY AS CREATED.

SPECIAL INSPECTIONS ITEMS

<u>SPECIAL INSPECTION</u>	<u>CODE/SECTION</u>
MECHANICAL SYSTEMS	BC 1704.1 G
<u>PROGRESS INSPECTION ITEMS</u>	<u>CODE/SECTION</u>
ENERGY CODE COMPLIANCE INSPECTIONS	BC 110.3.5
<u>ENERGY CODE PROGRESS INSPECTION</u>	
<u>PROGRESS INSPECTIONS</u>	<u>TAB. REFERENCE TRCNY</u>
HVAC AND SERVICE WATER HEATING EQUIPMENT	(IB3), (IB3)
HVAC & SERVICE WATER HEATING SYSTEM CONTROL	(IB4), (IB4)
HVAC INSULATION & SEALING	(IB5), (IB5)
ELECTRICAL ENERGY CONSUMPTION	(IC1), (IC1)
MAINTENANCE INFORMATION	(ID1), (ID1)

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