

HEAT PUMP VRF UNIT SCHEDULE (OUTDOOR)																
TAG	LOCATION	STATUS	NO OF MODULES	INDOOR UNIT SERVED	TON	NOMINAL COOLING	NOMINAL HEATING	DIMENSIONS (HxWxD) (IN.)	WEIGHT (LBS)	REFRIGERANT	PIPE DIA. (IN.)		ELECTRICAL DATA			MODEL
											LIQ.	GAS	VOLT/PH/HZ	MCA (A)	MOCP (A)	
HP-1(N)	SEE PLAN	NEW	2	AC-1(N) TO AC-8(N)	12.0	144 (72 + 72)	160 (80 + 80)	2 X (71 x 36 x 30)	2 X 591	R32	3/8	7/8	208/3/60	51 x 2	60 x 2	PURHY-HM144TSXU-A (OR EQUIVALENT)
NOTES:-																
1. UNIT SHALL HAVE TEN YEAR EXTENDED WARRANTY FOR COMPRESSORS/PARTS.																
2. PROVIDE COMPRESSOR CYCLE PROTECTOR.																
3. CONTRACTOR SHALL PROVIDE A LONG LINE SET FOR REFRIGERANT PIPING IN THE EVENT THAT TOTAL REFRIGERANT LENGTH EXCEED THE MANUFACTURER'S STANDARD RECOMMENDED LENGTH.																
4. OUTDOOR HEATPUMPUNITS TO BE LOCATED WITH PROPER CLEARANCES AND MUST PREVENT RE-CIRCULATION OF AIR. COORDINATE WITH MANUFACTURER AND ARCHITECT.																
5. HEAT PUMP UNIT SHALL NOT PRODUCE NOISE LEVELS IN EXCESS OF 42 DECIBELS FOR A SINGLE AIR CIRCULATING DEVICE AND 45 DECIBELS FOR THE CUMULATIVE NOISE LEVEL OF MULTIPLE AIR CIRCULATING DEVICES AS MEASURED 3 FEET FROM THE NOISE SOURCE AT AN OPEN DOOR OR WINDOW OF A NEARBY RESIDENCE.																

VRF INDOOR UNIT SCHEDULE																			
TAG	AREA SERVED	STATUS	TYPE	CAPACITY (TON)	QUANTITY	NOMINAL COOLING CAPACITY (MBH)	NOMINAL HEATING CAPACITY (MBH)	SUPPLY AIRFLOW (CFM)	OA AIRFLOW (CFM)	ELECTRICAL DATA			DIMENSIONS (WxDxH) (IN.)		REFRIGERANT PIPE SIZE (IN.)		WEIGHT (LBS.)	MANUFACTURER	MODEL NO.
										V/ PZ / HZ	MCA	MOCP			LIQUID	SUCTION			
AC-1(N) TO AC-5(N)	SEE PLAN	NEW	CEILING CASSETTE	0.5	5.0	6.7	6.7	494	50 EACH	208/1/60	0.24	15	33 x 33 x 10	1/4	1/2	46.0	MITSUBISHI (OR EQUIVALENT)	PLFY-EM06NEMU-A (OR EQUIVALENT)	
AC-6(N)	SEE PLAN	NEW	CEILING CASSETTE	4.0	1.0	48.0	54.0	1236	130	208/1/60	1.26	15	33 x 33 x 12	3/8	5/8	57.0	MITSUBISHI (OR EQUIVALENT)	PLFY-EM48NEMU-A (OR EQUIVALENT)	
AC-7(N) TO AC-8(N)	SEE PLAN	NEW	CEILING CONCEALED	4.0	2.0	48.0	54.0	1306	320 EACH	208/1/60	3.38	15	55 x 29 x 10	3/8	5/8	86.0	MITSUBISHI (OR EQUIVALENT)	PEFY-M48NMAU-A (OR EQUIVALENT)	
NOTES :-																			
1. SUPPLY AIR CFM BASED ON HIGH SPEED.																			
2. REFRIGERANT R32 SHALL BE PROVIDED.																			
3. PROVIDE ALL ASSOCIATED ACCESSORIES.																			
4. ALL REFRIGERANT PIPING TO BE SIZED AS PER MANUFACTURERS RECOMMENDATIONS.																			
5. CONTRACTOR SHALL PROVIDE A LONG LINE SET FOR REFRIGERANT PIPING IN THE EVENT THAT TOTAL REFRIGERANT LENGTH EXCEEDS THE MANUFACTURER'S STANDARD RECOMMENDED LENGTH. CONTRACTOR TO FIELD VERIFY THE EXACT TOTAL REFRIGERANT LENGTH AND COORDINATE WITH THE MANUFACTURER PRIOR TO ORDERING UNIT.																			
6. PROVIDE DISCONNECT SWITCH.																			
7. CONNECT 3/4" CD FROM ALL UNITS TO NEAREST APPROVED PLACE OF DISPOSAL. PROVIDE CONDENSATE PUMP IF REQUIRED.																			

HUMIDOR HUMIDITY SYSTEM							
TAG	AREA SERVED	QUANTITY	ELECTRICAL DATA		BASIS OF DESIGN		REMARK
			V/PH/HZ	MOCP	MANUFACTURER	MODEL	
HHS-1(N) & HHS-2(N)	SEE PLAN	2	115/1/60	15	CORRIGAN	PRESERVE	1,2,3,4
NOTES:							
1. INSTALL UNIT AS PER MANUFACTURER'S RECOMMENDATION.							
2. PROVIDE DISCONNECT SWITCH.							
3. PROVIDE WITH ALL REQUIRED ACCESSORIES.							
4. PROVIDE WITH 1/2IN POTABLE COLD WATER SUPPLY AND NEARBY DRAIN CONNECTION.							

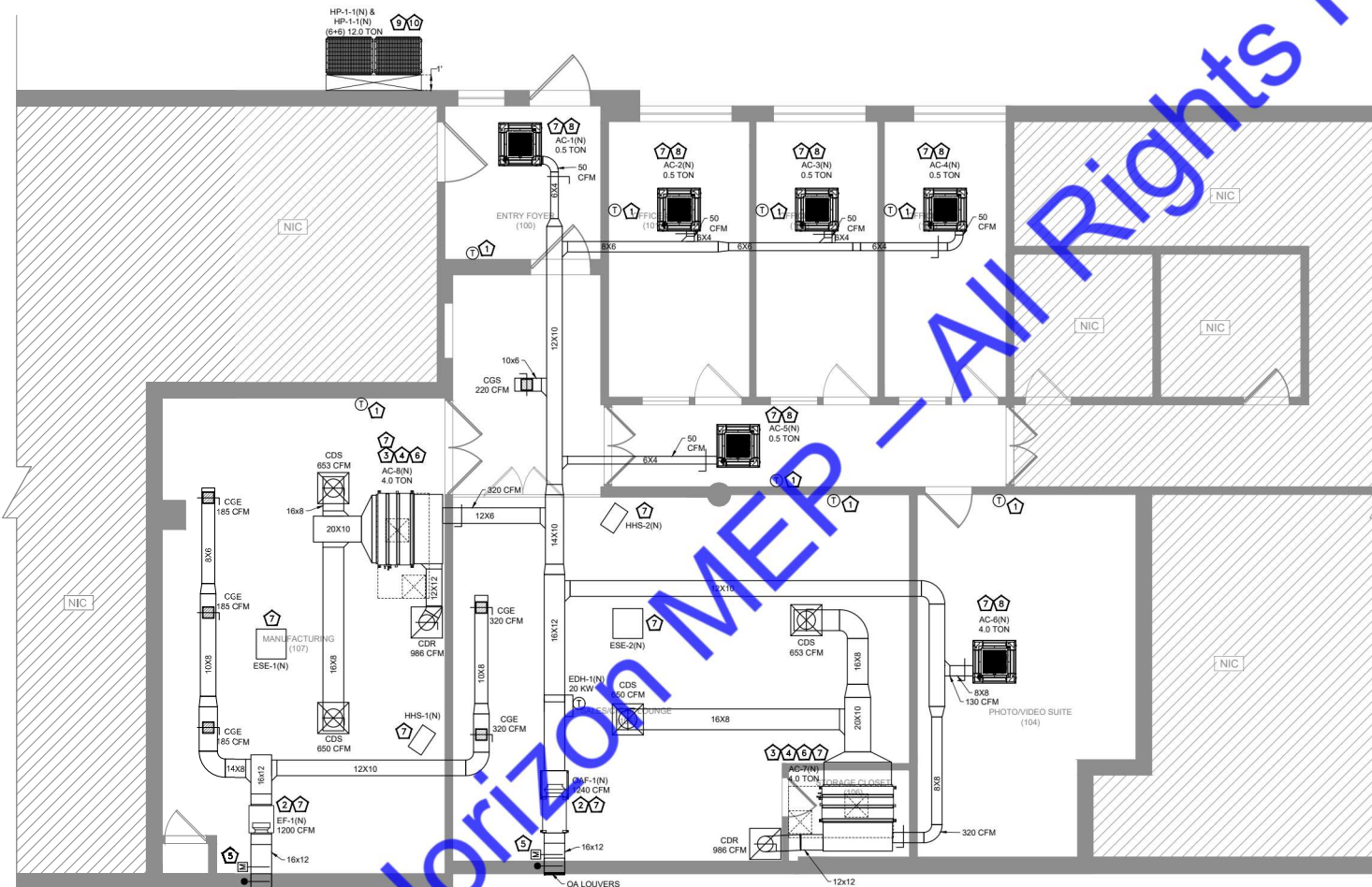
ELECTRONIC CEILING-MOUNT SMOKE EATER									
TAG	AREA SERVED	QUANTITY	WEIGHT (LBS)	ELECTRICAL DATA			BASIS OF DESIGN		REMARK
				V/PH/HZ	MCA	MOCP	MANUFACTURER	MODEL	
ESE-1(N) & ESE-2(N)	SEE PLAN	2	64	115/1/60	3.4	15	PURE AND NATURAL SYSEMS	CASE 1000	1,2,3,4
NOTES:									
1. INSTALL UNIT AS PER MANUFACTURER'S RECOMMENDATION.									
2. PROVIDE DISCONNECT SWITCH.									
3. PROVIDE WITH ALL REQUIRED ACCESSORIES.									

MECHANICAL FAN SCHEDULE											
TAG	AREA SERVED	FLOW RATE CFM	STATIC PRESSURE EXTERNAL IN W.G.	ELECTRIC DATA				MAXIMUM LOUNDSNESS	BASIS OF DESIGN		REMARK
				SPEED RPM	HP	V/PH/Hz	FLA		MANUFACTURER	MODEL	
QAF-1(N)	SEE PLAN	1240	1.0	1713	0.5	208/1/60	4.0	13.2	GREENHECK	SQ-12-M2-VG	2,3,4,5,7
EF-1(N)	SEE PLAN	1200	1.0	1592	0.5	208/1/60	4.0	10.3	GREENHECK	SQ-120-VG	1,2,3,6
NOTES:											
1. INTERCONNECT WITH AC-7(N) & AC-8(N). REFER TO ELECTRICAL LIGHTING PLAN.											
2. PROVIDE FACTORY MOUNTED AND INSTALLED DISCONNECT											
3. PROVIDE THERMAL OVERLOAD PROTECTION, AMCA SEAL AND UL CERTIFIED, SPEED CONTROLLER.											
4. INTERCONNECT WITH AC-1(N) TO AC-8(N). REFER TO ELECTRICAL LIGHTING PLAN.											
5. PROVIDE MERV-8 FILTER.											
6. PROVIDE BACKDRAFT DAMPER.											
7. PROVIDE MOTORIZED DAMPER.											

ELECTRIC DUCT HEATER SCHEDULE											
UNIT ID	MANUFACTURER	MODEL	HEATER TYPE	LOCATION	DUCT HEATER DIMENSIONS (IN)			ELECTRICAL DATA			
					W	H	D	KW	V	PH	HZ
EDH-1(N)	GREENHECK	IDHE	FLANGE	SEE PLAN	16	12	20.0	208	3	60	55.6
NOTES:-											
1. INSTALL ELECTRIC DUCT HEATER AS PER MANUFACTURER'S RECOMMENDATION.											
2. PROVIDE T-STAT AND WIRE TO DUCT HEATER.											
3. PROVIDE DISCONNECT SWITCH, VAPOR BARRIER, DUST TIGHT BOX AND FAN INTERLOCK SWITCH.											
4. PROVIDE DUCT HEATER WITH SCR CONTROL AND THERMOSTAT.											

VENTILATION CALCULATION - 1 WEST FOREST AVE- 2021 INTERNATIONAL MECHANICAL CODE												
ROOM TAG	AREA	OCCUPANCY AS PER 2021 IMC/100SQ.FT.	OCCUPANCY AS PER 2022 NYMC	ARCHITECTURAL OCCUPANCY	FINAL OCCUPANCY	CFM/PERSON	CFM/SQ.FT	SUPPLY CFM	PROVIDED CFM	EXHAUST CFM/SQ.FT./FIXTURE	EXHAUST CFM	SELECTED EXHAUST CFM
1 ENTRY FOYER (100)	98	10	1	0	1	5	0.06	11	1240	0	0	0
2 OFFICE 1 (101)	101	5	1	2	2	5	0.06	17		0	0	0
3 OFFICE 2 (102)	138	5	1	2	2	5	0.06	19		0	0	0
4 OFFICE 3 (103)	138	5	1	2	2	5	0.06	19		0	0	0
5 CORRIDOR	270	0	0	0	0	0	0.06	17		0	0	0
6 PHOTO/VIDEO SUITE (104)	306	10	4	25	25	5	0.12	162		0	0	0
7 SALES/CIGAR LOUNGE (105)	634	15	10	43	43	5	0.12	399		1	634	640
8 STORAGE (106)	43	0	0	1	1	1	0.12	6		0	0	0
9 MANUFACTURING (107)	551	7	4	6	6	7	0.12	112		1	551	560
TOTAL	2279	-	22	81	81	-	-	762	1240	-	-	1200

AIR BALANCE				
UNIT	AREA SERVED	SUPPLY AIR	OUTSIDE AIR	RETURN AIR
AC-1(N)	SEE PLAN	494 CFM	50 CFM	444 CFM
AC-2(N)	SEE PLAN	494 CFM	50 CFM	444 CFM
AC-3(N)	SEE PLAN	494 CFM	50 CFM	444 CFM
AC-4(N)	SEE PLAN	494 CFM	50 CFM	444 CFM
AC-5(N)	SEE PLAN	494 CFM	50 CFM	444 CFM
AC-6(N)	SEE PLAN	1236 CFM	130 CFM	1106 CFM
AC-7(N)	SEE PLAN	1306 CFM	320 CFM	986 CFM
AC-8(N)	SEE PLAN	1306 CFM	320 CFM	986 CFM
EF-1(N)	SEE PLAN	-	-	1200 CFM
TOTAL:		6318 CFM	1030 CFM	5298 CFM
BUILDING PRESSURE:		-	-180 CFM	NEGATIVE
NOTES:				
1. CONTRACTOR TO ADJUST MOTORIZED DAMPER ON FRESH AIR TAY TO PROVIDE OUTSIDE AIR AS MENTIONED IN ABOVE TABLE.				

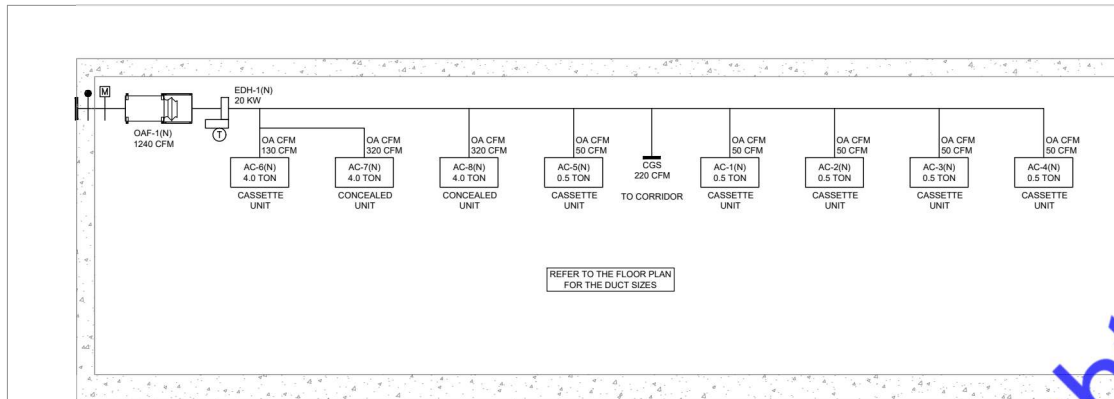


GENERAL NOTES:

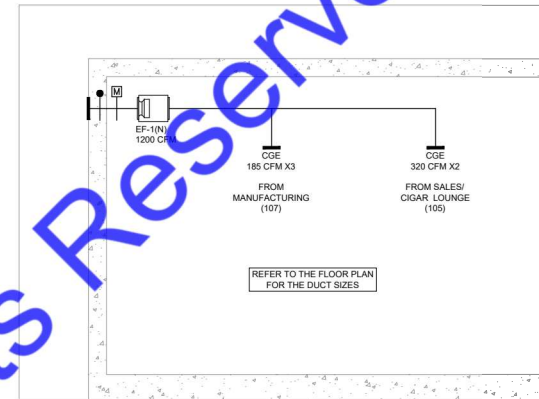
1. CONTRACTOR SHALL BALANCE EACH AIR DIFFUSER WITH THE CFM SHOWN PLAN.
2. DUCTWORK SHOWN ON PLAN ARE SCHEMATIC ONLY, CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR DUCTWORK ROUTING, OFFSET AND RUN PIPING. DUCTWORK INSIDE THE STRUCTURE IF REQUIRED, PROVIDE ANY EXTRA DUCTWORK, FITTINGS, INSULATIONS AND OTHER ACCESSORIES IN ORDER TO COMPLETE THE INSTALLATION.
3. EQUIPMENT SIZE, DIMENSIONS AND REQUIRED CONNECTIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT SELECTED VENDOR DRAWINGS BEFORE FABRICATION OF DUCTWORK, PIPING ETC.
4. DUCT SIZES SHOWN ON PLANS ARE CLEAR INSIDE AIR STREAM DIMENSIONS.
5. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS FOR ALL HVAC BASED ON ACTUAL EQUIPMENT SELECTED PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL COORDINATE EQUIPMENT WEIGHTS AND SUPPORTS BASED ON ACTUAL EQUIPMENT SELECTED.
7. ALL EXPOSED DUCTWORK SHALL BE AS SHOWN, DOUBLE WALL, INSULATED METAL, PRIMED FOR PAINTING. ALL CONCEALED DUCTWORK SHALL BE INSULATED METAL RECTANGULAR AND CIRCULAR DUCT SHALL BE INSULATED INTERNALLY UNLESS OTHERWISE ALLOWED IN WRITING BY THE ENGINEER OF RECORD. COORDINATE FINAL FINISH WITH ARCHITECT.
8. COORDINATE WITH ALL TRADES FOR MATERIALS IN RATED AND PLENUM SPACES.
9. ALL EXHAUST FANS SCHEDULED TO BE AUTOMATICALLY CONTROLLED BY MECHANICAL AIR HANDLERS SHALL BE CONNECTED BY MEANS OF AN AUXILIARY RELAY, PROVIDE AUXILIARY RELAY AS NEEDED.
10. ALL SOURCE OF MECHANICAL INTAKE SHALL MAINTAIN 10 LINEAR FEET SEPARATION BETWEEN ANY SOURCE OF EXHAUST. CONTRACTOR IS RESPONSIBLE TO ADJUST DUCT LENGTH AS NEEDED.
11. MD TO INTERLOCK WITH RESPECTIVE INDOOR UNITS.
12. COORDINATE FINAL LOCATION OF EQUIPMENT WITH STRUCTURAL DRAWINGS.
13. CONTRACTOR SHALL DEMOLISH ALL EXISTING HVAC SYSTEMS INCLUDING FURNACE, DUCTWORK AND ALL ASSOCIATED ACCESSORIES.
14. BEFORE STARTING DEMOLITION, PROVIDE NECESSARY PROTECTIVE DEVICES WHERE REQUIRED AND IN STRICT ACCORDANCE WITH OSHA AND ICRA REGULATIONS.
15. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT MIGRATING TO OCCUPIED AREAS OF THE BUILDING. THIS INCLUDES BLANKING OFF ANY RETURN AIR GRILLES/ DUCTS IN THE WORK AREA. PROVIDE TEMPORARY EXHAUST FANS, DUCTED DIRECTLY TO OUTDOORS, TO MAINTAIN NEGATIVE PRESSURE WITHIN THE WORK AREA.
16. KEEP ALL ADJOINING AREAS ADJACENT TO THE WORK AREAS CLEAN AND FREE OF DEBRIS.
17. ALL DEMOLISHED MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF SITE.
18. REPAIR/ REPLACE EXISTING EQUIPMENT/ MATERIALS NOT SCHEDULED OR NOTED TO BE DEMOLISHED BUT BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS, MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITIONS AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
19. PROVIDE WEATHER PROOF COATING FOR ALL EXTERIOR PIPING INSULATION.
20. MECHANICAL CONTRACTOR TO COORDINATE ALL DUCT WORK, CROSSINGS, OVERLAPPING AND PENETRATIONS WITH SITE CONDITIONS AND AS PER EXISTING JOIST LAYOUT AND SKYLIGHT IN FIELD. MODIFY DUCT WORK WHEREVER REQUIRED.
21. PROVIDE FIRE OR FIRE+SMOKE DAMPER WHEREVER DUCTS ARE CROSSING FIRE/SMOKE RATED WALLS/BARRIERS/SLABS. COORDINATE WITH ARCHITECTURAL DRAWING FOR FIRE RATING OF THE WALLS.

KEYED NOTES:

1. LOCATION OF DIGITAL PROGRAMMABLE THERMOSTAT. INSTALL AND WIRE NEW 7-DAY PROGRAMMABLE THERMOSTAT FOR THE RESPECTIVE UNITS. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE LOCKABLE COVER.
2. INLINE EXHAUST FAN. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS PRIOR TO INSTALLATION. INTERCONNECT WITH MECHANICAL SCHEDULE FOR MORE DETAILS.
3. EXTEND FULL SIZE SUPPLY & RETURN DUCTWORK FROM AC'S TO SPACE. EXTEND AS SHOWN. ACOUSTICALLY LINE THE FIRST 10'-0" OF BOTH SUPPLY AND RETURN MAIN DUCTS.
4. PROVIDE REMOTE TEMP. MOUNTED IN THE RETURN AIR DUCT AND WIRE BACK TO THE RESPECTIVE T-STAT.
5. INTERCONNECT THE MOTORIZED DAMPER WITH RESPECTIVE FAN.
6. PROVIDE SECONDARY DRIP PAN UNDER AC UNIT WITH WATER LEAKAGE SENSOR TO SHUT DOWN THE UNIT.
7. COORDINATE WITH ARCHITECT/ OWNER FOR THE FINAL LOCATION FOR THE UNIT. COORDINATE/ SUBMIT FINAL LOAD OF MECHANICAL UNITS. SUPPORT DETAILS WITH STRUCTURAL DRAWINGS. TAKE STRUCTURAL ENGINEER'S APPROVAL BEFORE CONSTRUCTION.
8. CONTRACTOR TO TERMINATE THE CONDENSATE DRAIN TO THE NEAREST APPROVED PLACE OF DISPOSAL WITH AN AIR GAP FITTING. COORDINATE WITH PLUMBING CONTRACTOR.
9. COORDINATE WITH ARCHITECT/ OWNER FOR THE FINAL LOCATION FOR THE UNIT. INSTALL REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNITS AS PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE INSULATION TO REFRIGERANT PIPING AS PER 2019 ASHRAE 90.1. COORDINATE REFRIGERANT PIPE ROUTING WITH ARCHITECT/OWNER.
10. CONTRACTOR SHALL COORDINATE REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNITS AS PER THE MANUFACTURER'S RECOMMENDATIONS. MAXIMUM REFRIGERANT PIPING LENGTH SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDATION.

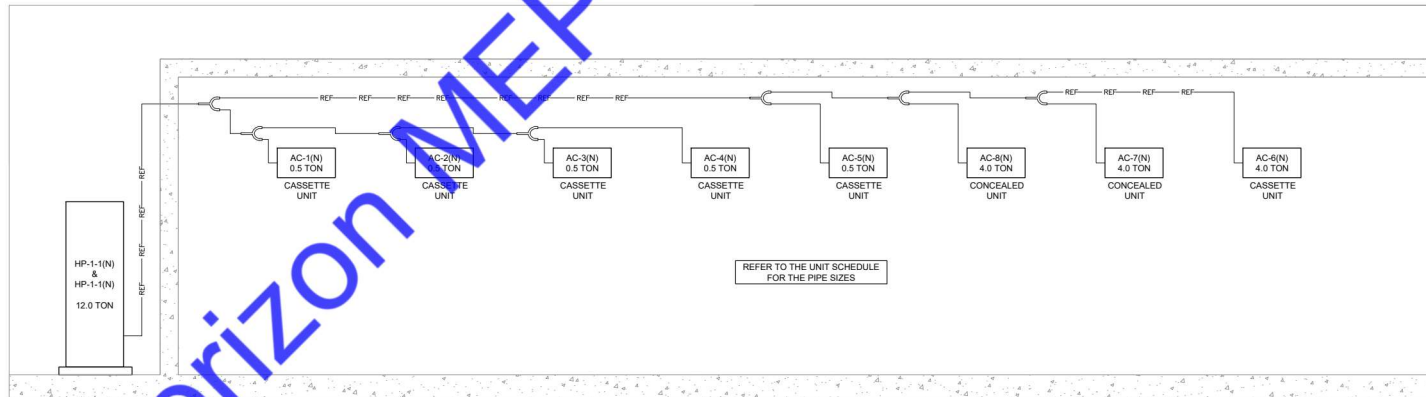


OUTSIDE AIR DUCT RISER



EXHAUST AIR DUCT RISER

1 VENTILATION DUCT RISER
SCALE: N.T.S



2 REFRIGERANT PIPING RISER
SCALE: N.T.S

Air System Information
Air System Name: 0 TOTAL SUMMARY
Equipment Class: SPLT AHU
Air System Type: SDCAV
Number of zones: 1
Floor Area: 2279.0 SF
Location: Newark, New Jersey

Sizing Calculation Information
Calculation Months: Jan to Dec
Sizing Data: Calculated
Zone CFM Sizing: Sum of space airflow rates
Space CFM Sizing: Individual peak space loads

Central Cooling Coil Sizing Data
Total coil load: 13.5 Tons
Total coil load: 181.9 MBH
Sensible coil load: 133.3 MBH
Coil CFM at 55°F: 5540 CFM
Max block CFM: 5540 CFM
Sum of peak zone CFM: 5540 CFM
Sensible heat ratio: 0.793
CFM/Ton: 410.7
WTR (in 97): 18.9
BTU/(in 97): 71.0
Water flow @ 10.0°F rise: N/A
Load occurs at: Jul 1500
OA DB / WB: 82.8 / 74.1 °F
Entering DB / WB: 77.6 / 64.7 °F
Leaving DB / WB: 56.2 / 54.9 °F
Coil ADP: 93.3
System Factor: 6.130
Resulting BW: 80 %
Design supply temp: 56.0 °F
Zone Total Check: 1 of 1 OK
Max zone temperature deviation: 6.0 °F

Central Heating Coil Sizing Data
Max coil load: 65.2 MBH
Coil CFM at 180°F: 5540 CFM
Max coil CFM: 5540 CFM
Water flow @ 20.0°F drop: N/A
Load occurs at: Dec 1100
BTU/(in 97): 28.6
Ent. DB / Log DB: 63.3 / 74.2 °F

Supply Fan Sizing Data
Actual max CFM: 5540 CFM
Standard CFM: 5039 CFM
Actual max CFM*: 2.43 CFM/ft²
Fan motor BHP: 0.00 BHP
Fan motor KW: 0.00 kW
Fan static: 0.00 in wg

Outdoor Ventilation Air Data
Design airflow CFM: 800 CFM
CFM/ft²: 0.35 CFM/ft²
CFM/person: 9.76 CFM/person

Air System Information
Air System Name: 0 TOTAL SUMMARY
Equipment Class: SPLT AHU
Air System Type: SDCAV
Number of zones: 1
Floor Area: 2279.0 SF
Location: Newark, New Jersey

Sizing Calculation Information
Calculation Months: Jan to Dec
Sizing Data: Calculated
Zone CFM Sizing: Sum of space airflow rates
Space CFM Sizing: Individual peak space loads

Zone Name	Design Supply Airflow (CFM)	Minimum Supply Airflow (CFM)	Zone CFM	Reheat Coil Load (MBH)	Reheat Coil Water gpm @ 20.0°F	Zone Hg Unit Coil Load (MBH)	Zone Hg Unit Water gpm @ 20.0°F	Mixing Box Fan Airflow (CFM)
Zone 1	5374	5374	2.36	0.0	0.0	0.0	0.0	0

Zone Name	Zone Cooling Sensible (MBH)	Time of Peak Sensible Cooling Load	Zone Heating Load (MBH)	Zone Floor Area (ft²)
Zone 1	110.2	Jul 1700	11.8	2279.0

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Peak Sensible Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
1 ENTRY FOYER (100)	1	3.2	Jul 1700	154	2.1	98.0	1.57
2 OFFICE 1 (101)	1	3.6	Jul 1700	178	1.5	101.0	1.76
3 OFFICE 2 (102)	1	4.0	Jul 1700	194	1.4	138.0	1.41
4 OFFICE 3 (103)	1	4.0	Jul 1700	194	1.4	138.0	1.41
5 CORRIDOR	1	2.8	Jan 2300	134	0.0	270.0	0.50
6 PHOTOVIDEO SITE (104)	1	29.5	Jul 2000	1437	0.9	306.0	4.70
7 SALES/CUSTOMER LNDG (105)	1	36.8	Jul 2000	1780	1.9	634.0	2.83
8 STORAGE (106)	1	1.0	Jul 2000	49	0.7	43.0	1.14
9 MANUFACTURING (107)	1	25.4	Jul 2000	1239	1.7	551.0	2.25

1. Summary
Ventilation Sizing Method: Sum of Space OA Airflows
Design Ventilation Airflow Rate: 800 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM)	Excess Outdoor Air (CFM)	Excess Outdoor Air (CFM)	Excess Outdoor Air (CFM)	Excess Outdoor Air (CFM)
Zone 1										
1 ENTRY FOYER (100)	1	98.0	1.0	153.8	0.00	0.00	25.0	0.0	25.0	25.0
2 OFFICE 1 (101)	1	101.0	2.0	177.6	0.00	0.00	25.0	0.0	25.0	25.0
3 OFFICE 2 (102)	1	138.0	2.0	194.0	0.00	0.00	25.0	0.0	25.0	25.0
4 OFFICE 3 (103)	1	138.0	2.0	194.0	0.00	0.00	25.0	0.0	25.0	25.0
5 CORRIDOR	1	270.0	0.0	134.3	0.00	0.00	25.0	0.0	25.0	25.0
6 PHOTOVIDEO SITE (104)	1	306.0	25.0	1437.2	0.00	0.00	170.0	0.0	170.0	170.0
7 SALES/CUSTOMER LNDG (105)	1	634.0	43.0	1778.1	0.00	0.00	400.0	0.0	400.0	400.0
8 STORAGE (106)	1	43.0	1.0	49.0	0.00	0.00	19.0	0.0	19.0	19.0
9 MANUFACTURING (107)	1	551.0	6.0	239.2	0.00	0.00	120.0	0.0	120.0	120.0
Totals (incl. Space Multipliers)				3144						800.0

MECHANICAL LOAD CALCULATION
SCALE: N.T.S

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
Project Title: 1 WEST FOREST AVENUE
Location:
Climate Zone: 5a
Project Type: Alteration
Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

1 WP-120 VRF Condensing Unit, Air Cooled Heat Pump
Heating Mode: Capacity = 160 MBtu/h
Proposed Efficiency = 4.02 COP, Required Efficiency = 3.20 COP
Cooling Mode: Capacity = 144 MBtu/h
Proposed Efficiency = 13.50 EER, Required Efficiency = 10.60 EER
Proposed Part Load Efficiency = 22.90 IEER, Required Part Load Efficiency = 13.90 IEER
Fan System: None
SYSTEM VERIFICATION REQUIRED.

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: 1 WEST FOREST AVENUE
Data Filename: Report Date: 11/09/25
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ENERGY ANALYSIS
SCALE: N.T.S