SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data and Shop Drawings.
B. Comply with ASHRAE 15.
C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
4. Condenser Fans: Direct drive propeller.
5. Refrigerant Coils: Aluminum fins and copper coil.
6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
8. Economizer controls (Comparative Enthalpy, 100% capacity).
9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
11. Roof curb.
12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
13. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install units level and plumb and firmly anchored.
B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
C. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
D. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: Product Data for fire and smoke dampers.
B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
E. Comply with UL 181 and UL 181A for ducts and closures.
F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS

A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 8.
1. Adhesive: ASTM C 916, Type I.
2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
D. Joint and Seam Tape: Comply with UL 181A.
E. Joint and Seam Sealant: Comply with UL 181A.
F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES

A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
C. Avoid passing through electrical equipment spaces and enclosures.
D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
I. Install fusible links in fire dampers.
J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING

A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

A. All air terminal devices:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled
3. Material: As scheduled.
4. Finish: As scheduled.
5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC GENERAL NOTES

A GENERAL NOTES APPLY TO HVAC SHEETS.
B WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
D COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
E DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
F DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
G PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
H COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
J REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.
K THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
L PROVIDE LABELING CALLED FOR IN THE HVAC DRAWINGS USING ENGRAVED PHENOLIC PLATES.
M PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
DUCT		
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

HVAC SYMBOLS

- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN GRILLE
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION (W/H)
- DUCT-MOUNTED SMOKE DETECTOR (S)
- MOTOR-OPERATED DAMPER (M)
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- GRIDPOINT THERMOSTAT (T)
- GRIDPOINT ZONE SENSOR MODULE (S)
- GRIDPOINT SUPPLY PROBE (S)
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING (#)
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION (XX-#)
- AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET (A/V)
- GRILL, REGISTER, OR DIFFUSER TAG: (12"ØCD1 / 550) TAG, NECK SIZE, AIRFLOW [CFM]

HVAC ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GYP	GYPSUM BOARD
NTS	NOT TO SCALE
O/H	OVERHEAD
OBD	OPPOSED BLADE DAMPER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROLLER
W/	WITH
WIC	WALK-IN COOLER
C02AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE BEST INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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Issue Record:

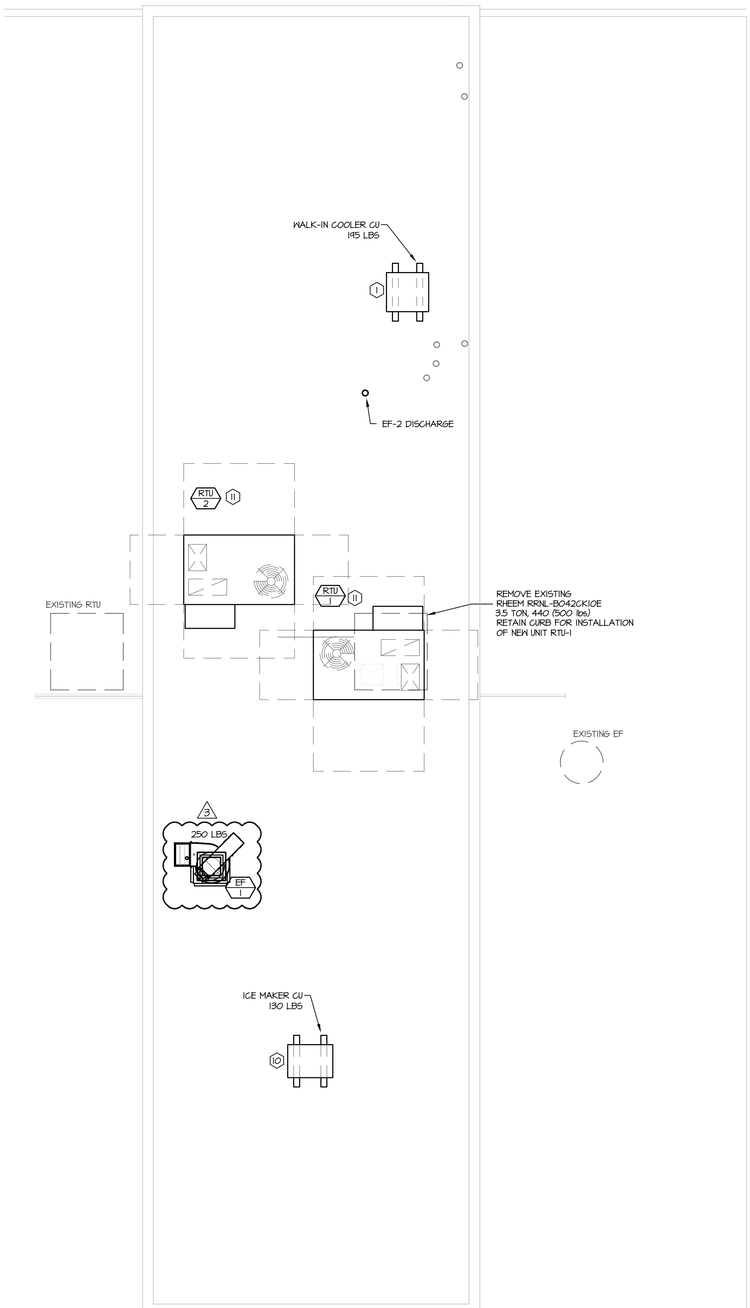
06/22/22	Permit Issue

Revisions:

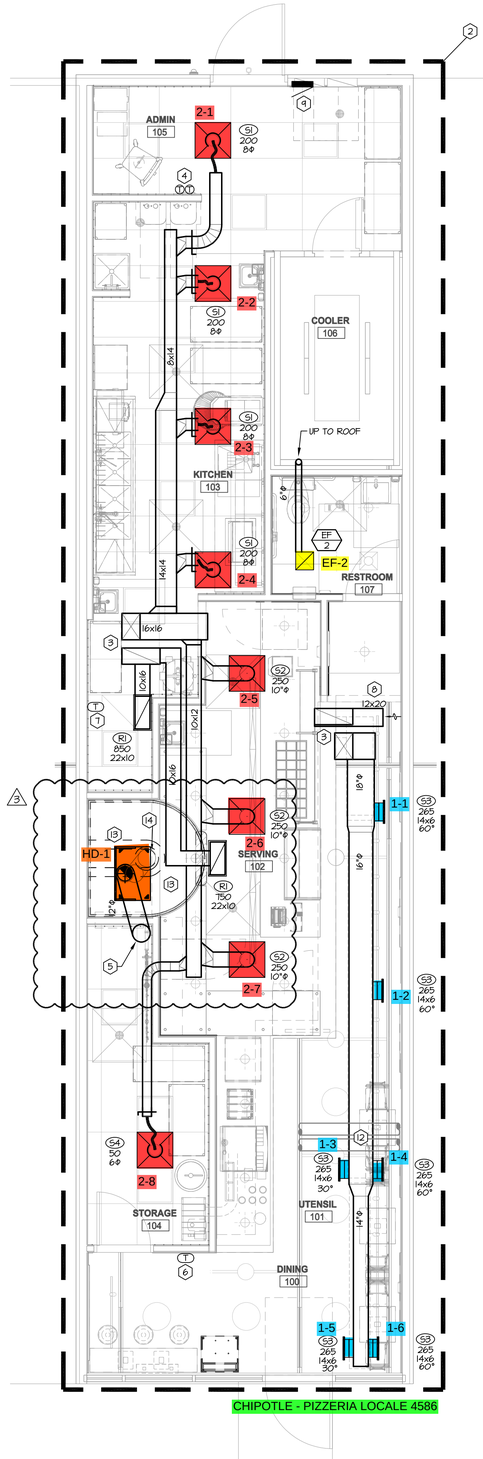
Project No.
05006

HVAC Specifications

M0.1



2 HVAC ROOF PLAN
1/8" = 1'-0"



1 HVAC FLOOR PLAN
1/8" = 1'-0"

PLAN NOTES:

1. Install remote condensing unit for walk-in cooler on roof as detailed in the architectural and structural drawings. Install refrigerant line set, thermostatic expansion valve, solenoid valve, temperature control, sight glass, filter drier, pressure control, low ambient controls, and weatherproof housing. Trap and slope refrigerant lines per manufacturer's recommendations. Installation shall comply with ASHRAE/ANSI standard 15. Install the line set under the roof deck to within 3' of the condensing unit. Cut 2-1/2" hole in walk-in cooler roof for refrigerant line set and seal per the cooler manufacturer's installation instructions after line set is installed.
2. Demo all existing HVAC equipment and ductwork within space unless noted otherwise.
3. Provide supply and return air plenums matching RTU sizes up to RTU on roof.
4. Install LED touchscreen (with controls locked by code) 24/7 programmable thermostat mounted at 48" AFF. Coordinate exact location with onwer.
5. Provide 12" diameter type 1 welded and insulated kitchen exhaust ductwork from hood up to fan on roof. Ductwork to be a minimum 16 gage carbon steel with continuously wlded, liquid tight seams. Provide duct clean-outs as required by IMC and as noted in specifications. Provide 2 layers of fire wrap as noted in specifications. Provide galvanized duct on the outside of the fire wrap at a diameter of 18". duct to be painted black.
6. Provide remote temperature sensor mounted at 48" AFF for RTU-1. Wire back to thermostat.
7. Provide remote temperature sensor mounted at 48" AFF for RTU-2. Wire back to thermostat.
8. Extend return air plenum as shown, line and provide 1" birdscreen.
9. MC to install pizza oven controller above electrical panels. EC to provide conduit with pull string from rough-in to pizza oven exhaust fan.
10. Install remote condensing unit for ice machine on roof as detailed in the architectural and structural drawings. Install refrigerant line set, thermostatic expansion valve, solenoid valve, temperature control, sight glass, filter drier, pressure control, low ambient controls, and weatherproof housing. Trap and slope refrigerant lines per manufacturer's recommendations. Seal penetrations through roof. Installation shall comply with ASHRAE/ANSI standard 15. Install the line set under the roof deck to within 3' of the condensing unit. If refrigerant piping to ice maker is exposed to public view, conceal within a stainless steel shroud as shown in the architectural drawings.
11. Install Halo air purifier furnished by TUV in RTU per detail. Electrical installation by EC per electrical plans & notes. Install UV warning stickers on face of enclosure per detail on any RTU access door(s) through which the REME Halo would be visible if opened.
12. Field verify locations of existing storm drain pipe. Route ductwork to avoid interference. Coordinate with engineering if interference is unavoidable.
13. Install kitchen hood, support hood per manufacturer's installation instructions as detailed in teh architectural and structural drawings. Install hood according to the requirements of its listing, in compliance with NFPA 96, the building code, and AHJ.
14. Extend flue from pizza oven as needed to reach hood. Provide 12" diameter type 1 welded and insulated kitchen exhaust ductwork from hood up to fan on roof. Ductwork to be a minimum 16 gage carbon steel with continuously wlded, liquid tight seams. Provide duct clean-outs as required by IMC and as noted in specifications. Provide 2 layers of fire wrap as noted in specifications. Provide galvanized duct on the outside of the fire wrap at a diameter of 18". duct to be painted black.

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Issue Record:

06/22/22	Permit Issue

Revisions:

07/13/22	1 Health Comments
08/24/22	3 City Comments

Project No.
05006

HVAC Plan

M1.1

ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	MIN. O/A CFM	SUPPLY FAN ACFM	SUPPLY FAN ESP	DX COOLING COIL SCAP MBH	DX COOLING COIL TCAP MBH	DX COOLING COIL NOM TONS	GAS HEAT IN (MBH)	GAS HEAT OUT (MBH)	V/PH	MCA	MOCP	WEIGHT (LBS)	NOTES
RTU-1	CARRIER	48HC__05	400	1,600	0.75	38.1	50.6	4	98.9	90	208/3	24	30	750	1,2,3
RTU-1 ALT	TRANE	YHC048	400	1,600	0.75	37.1	49.6	4	68.8	64	208/3	24.6	35	950	1,2,3
RTU-2	CARRIER	48HC__05	400	1,600	0.75	38.1	50.6	4	98.9	90	208/3	24	30	750	1,3,4
RTU-2 ALT	TRANE	YHC048	400	1,600	0.75	37.1	49.6	4	68.8	64	208/3	24.6	35	950	1,3,4

NOTES:

1. PROVIDE UNIT WITH FACTORY MOUNTED AND WIRED DISCONNECT FOR SINGLE-POINT ELECTRICAL CONNECTION.
2. PROVIDE CURB ADAPTER TO MATCH EXISTING CURB. EXISTING UNIT IS RHEEM RRNL-B042CK10E. FIELD MEASURE EXISTING CURB TO MATCH
3. PROVIDE PROGRAMMABLE THERMOSTAT BY UNIT MANUFACTURER. REFER TO PLANS FOR ADDITIONAL REQUIREMENTS. UNIT SHALL RUN CONTINUOUSLY DURING OCCUPIED TIMES, AND INTERMITTANTLY DURING UNOCCUPIED TIMES.
4. PROVIDE WITH 24" STANDARD ROOF CURB

GENERAL NOTES (APPLY TO ALL ABOVE):

A. PROVIDE MERV 8 FILTERS.
B. PROVIDE TOOLLESS HINGED ACCESS PANELS
C. FUEL SOURCE FOR GAS HEATER IS NATURAL GAS. PROVIDE 2-STAGE HEATING WHERE AVAILABLE.
D. PROVIDE FACTORY MOUNTED FIELD WIRED CONVENIENCE RECEPTACLE.
E. COOLING CAPACITY SHALL BE BASED ON 95 F AMBIENT TEMPERATURE, 80/67 F EAT AND 55/55 F LAT.
F. PROVIDE CONDENSER COIL HAIL GUARDS
G. PROVIDE COMP. ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPERS.
H. PROVIDE HIGH ALTITUDE KIT. GAS INPUT ABOVE HAS BEEN DERATED BASED ON 5,500 FT.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DAMPER	NOTES
S1	TITUS	OMNI-3	SUPPLY	24x24	SEE PLANS	NO	WHITE
S2	TITUS	OMNI-1	SUPPLY	24x24	SEE PLANS	NO	WHITE
S3	TITUS	S300FS	SUPPLY	NECK SIZE +2"	SEE PLANS	SCOOP	BLACK
R1	TITUS	355RL-3	RETURN	NECK SIZE +2"	SEE PLANS	NO	WHITE

GENERAL NOTES (APPLY TO ALL ABOVE):

A. PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECT'S PLANS PRIOR TO ORDERING.
B. UNLESS NOTED OTHERWISE, COLOR SHALL BE MILL
C. DIFFUSERS ARE PROVIDED AND INSTALLED BY GC/MC.

FAN SCHEDULE

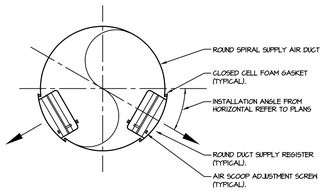
MARK	MANUFACTURER	MODEL	ACFM	S.P.	DRIVE	HP	V/PH	NOTES
EF-1	CAPTIVEAIRE	CASRE13BD	500	0.7	BELT	1/2	120/1	1,2,3,6
EF-2	COOK	GC-146	70	0.3	DIRECT	28.4W	120/1	3,4,5,6,7

NOTES:

1. UL-762 LISTED GREASE FAN
2. PROVIDE 24" VENTED ROOF CURB.
3. FURNISHED BY TENANT'S HOOD SUPPLIER
4. PROVIDE WITH WEATHERPROOF ROOF CAP WITH BACKDRAFT DAMPER AND BIRDSCREEN
5. PROVIDE WITH MANUFACTURER'S STANDARD WHITE CEILING GRILLE
6. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH
7. CONTRACTOR FURNISHED AND INSTALLED FAN.

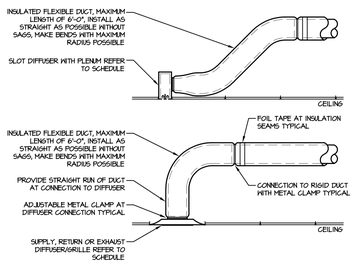
GENERAL NOTES (APPLY TO ALL):

a. EQUIPMENT SHALL BE SIZED AND SELECTED BASED ON 5,500 FT. ALTITUDE.



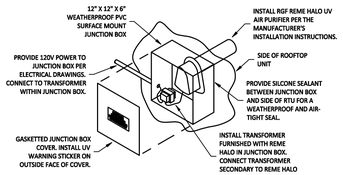
NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR REQUIRED ACCESSORIES AND FINISHES.
2. ADJUST BLADE DEFLECTION TO AIR DISTRIBUTION INDICATED ON THE PLANS.
3. ADJUST AIR SCOOP EXTRACTOR TO BALANCE GRILLES TO AIRFLOW INDICATED ON THE PLANS.

01 Spiral Duct Mounted Supply Grille Detail
Scale: Not to Scale



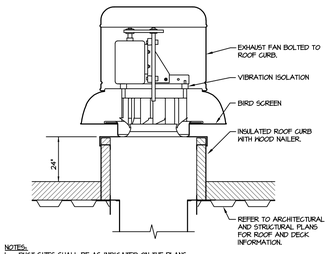
NOTES:
1. DUCT AND DIFFUSER SIZES SHALL BE AS INDICATED ON THE PLANS.
2. SUPPORT DUCTWORK PER SPECIFICATIONS.
3. COORDINATE CEILING TYPES WITH ARCHITECTURAL PLANS.

02 Diffuser Connection Detail
Scale: Not to Scale



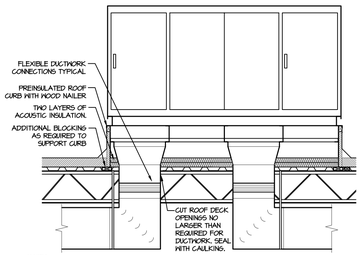
INSTALLATION LOCATION
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:
TRANE: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.
YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

03 UV Air Purifier Installation
Scale: Not to Scale



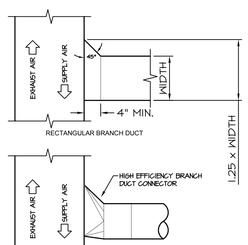
NOTES:
1. DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
2. DOWNBLAST FAN SHOWN, UPBLAST FAN IS SIMILAR.
3. KITCHEN EXHAUST FAN IS SIMILAR. PROVIDE ADDITIONAL ACCESSORIES AND CLEARANCES TO THE ROOF AS INDICATED ON THE FAN SCHEDULE.
4. BOTTOM OF ROOF CURB SHALL MATCH THE SLOPE OF THE ROOF SO THAT THE TOP OF ROOF CURB IS LEVEL. ATTACH FAN TO CURB PER MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND/OR ROOF MANUFACTURER'S REQUIREMENTS.

04 Roof Exhaust Fan Detail
Scale: Not to Scale



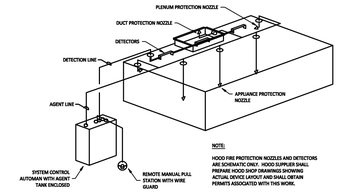
NOTES:
1. ROOFING, INSULATION, FLASHING AND COUNTER FLASHING TO BE INSTALLED PER ARCHITECTURAL PLANS, DETAILS AND SPECIFICATIONS.
2. BLOCKING AND SUPPORT SHALL BE INSTALLED PER THE STRUCTURAL PLANS, DETAILS AND SPECIFICATIONS.
3. CONTRACTOR TO PROVIDE GASKETING AT THE PERIMETER OF THE CURB AND AT ALL SUPPLY AND RETURN DUCT CHANNELS.
4. ACOUSTIC INSULATION SHALL BE INSTALLED OVER THE ENTIRE CURB BASE WITHOUT GAPS. PROVIDE OPENS CORNING SELECTSOUND 2" THICK ACOUSTIC BLANKET OR EQUAL.
5. CURB SHALL BE INSTALLED LEVEL. REFER TO ARCHITECTURAL PLANS FOR ROOF SLOPE.

05 Rooftop Unit Detail
Scale: Not to Scale



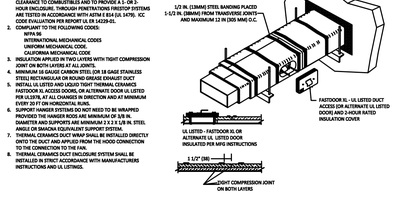
NOTES:
1. SUPPLY, RETURN AND EXHAUST FITTINGS ARE SIMILAR, ONLY DIRECTION OF AIRFLOW CHANGES.
2. REFER TO FLOOR PLANS FOR BRANCH LOCATIONS REQUIRING BALANCING DAMPERS.

06 Branch Duct Detail
Scale: Not to Scale

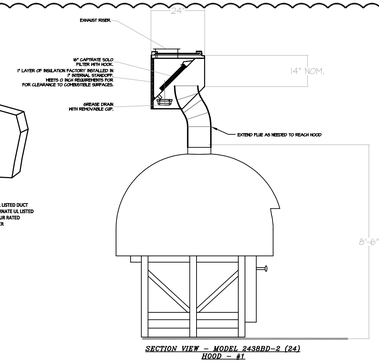


NOTE:
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

07 Fire Suppression Schematic
Scale: Not to Scale



08 Firemaster Duct Wrap - UL HNKT-G18
Scale: Not to Scale



SECTION VIEW - MODEL 2438BD-2 (24) HOOD - #1

HOOD INFORMATION - JOB#5601232

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		2438 BD-2 (24)	CAPTIVEAIRE	3' 0"	450 DEG	1	MEDIUM	167	500			4"	10"	500	917	-0.260"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	2	16"	16"	85% SEE FILTER SPEC	0			WALL MNT	12"x42"x24"	TANK FS	4.0	SC-1101IOMA	1 LIGHT 1 FAN	YES	124 LBS

THE EXISTING CONDITIONS INDICATED ON THIS DRAWING ARE TAKEN FROM THE BEST INFORMATION AVAILABLE FROM VISUAL SITE INSPECTIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE WORK TO BE DONE. THE CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AND THE INTENT OF THE WORK INDICATED ON THIS DRAWING.

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Issue Record:

06/22/22	Permit Issue

Revisions:

07/13/22	1	Health Comments
08/24/22	3	City Comments

Project No.
05006

HVAC DETAILS & SCHEDULES

M3.1