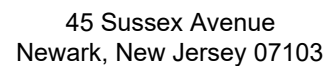
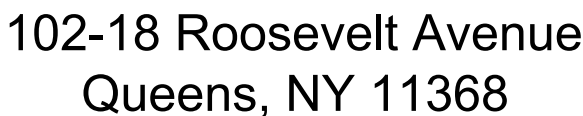


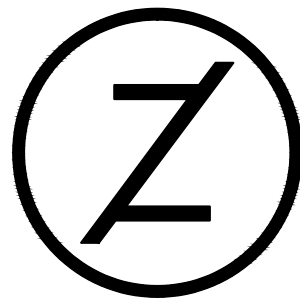
**102-18 ROOSEVELT AVENUE
QUEENS, NY 11368**

DOB Approval Stamp:

Title Sheet

DOB NOW Job No:

T-100.00



Z E L T A
DESIGN

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Revisions

No.	Description	Date

DOB Approval Stamp:



Popeyes Louisiana Kitchen

102-18 Roosevelt Avenue
Queens, NY 11368

Energy Analysis

Project No. 2012-20

Date: 03/10/2021

Drawn By: RSE

Scale:

NY License No.
042821

DOB NOW Job No:

EN-101.00

PROGRESS INSPECTIONS FOR ENERGY CODE COMPLIANCE (TR-8)				
CODE	INSPECTION/TEST	PERIODIC (MINIMUM)	REFERENCE STANDARD (SEE ECC CHAPTER 6 OR OTHER CRITERIA)	ECC OR OTHER CITATION
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT: EQUIPMENT SIZING, EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURERS DATA.	PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	C403.2, C404.2, C404.7, C406.2, ASHRAE 90.1 -6.3, 6.4.1, 6.4.2, 6.8, 7.4, 7.8
IIB4	HVAC AND SERVICE WATER HEATING CONTROLS: NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO: - THERMOSTATIC - SET POINT OVERLAP RESTRICTION - OFF-HOUR - SHUTOFF DAMPER - ZONES - ECONOMIZERS - AIR SYSTEMS - VARIABLE AIR VOLUME - SINGLE ZONE COOLING SYSTEMS - HEAT REJECTION EQUIPMENT FAN SPEED - COMPLEX MECHANICAL SYSTEMS SERVING MULTIPLE ZONES - VENTILATION - TEMPERATURE - EXHAUST HOODS	AFTER INSTALLATION AND PRIOR TO FINAL INSPECTION	APPROVED CONSTRUCTION DOCUMENTS, INCLUDING CONTROL SYSTEM NARRATIVES, ASHRAE GUIDELINE 1: THE HVAC COMMISSIONING PROCESS WHERE APPLICABLE	C403.2.4, C403.2.5.1, C403.2.11, C403.3, C403.4, C404.3, C404.6, C404.7; ASHRAE 90.1 -6.3, 6.4, 6.5, 7.4.4, 7.4.5
IIB5	HVAC INSULATION AND SEALING: INSTALLED DUCT AND PIPING INSULATION SHALL BE VISUALLY INSPECTION TO VERIFY PROPER INSULATION PLACEMENT AND VALUES. JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE VISUALLY INSPECTED FOR PROPER SEALING	AFTER INSTALLATION AND PRIOR TO CLOSING SHAFTS, CEILINGS AND WALLS	APPROVED CONSTRUCTION DOCUMENTS; SMACNA DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE	C403.2.7, C403.2.8, C404.5, MC 603.9; ASHRAE 90.1 -6.3, 6.4.4, 6.8.2, 6.8.3, 7.4.3
IID1	MAINTENANCE INFORMATION: MAINTENANCE MANUALS FOR MECHANICAL, SERVICE HOT WATER AND ELECTRICAL EQUIPMENT AND SYSTEMS REQUIRING PREVENTATIVE MAINTENANCE SHALL BE REVIEWED FOR APPLICABILITY TO INSTALLED EQUIPMENT AND SYSTEMS BEFORE SUCH MANUALS ARE PROVIDED TO THE OWNER. LABELS REQUIRED FOR SUCH EQUIPMENT OR SYSTEMS SHALL BE INSPECTED FOR ACCURACY AND COMPLETENESS.COMMERCIAL KITCHEN EQUIPMENT	PRIOR TO SIGN-OFF OR ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS; SMACNA DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE	C403.2.7, C403.2.8, C404.5, MC 603.9; ASHRAE 90.1 -6.3, 6.4.4, 6.8.2, 6.8.3, 7.4.3
I, ERIK LIEPINS A LICENSED REGISTERED ARCHITECT, TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, STATE THAT THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NEW YORK CITY.				

ENERGY ANALYSIS					
ENERGY ANALYSIS FOR ALTERATION IN CLIMATE ZONE 4 BUILDING DESIGN FOR COMMERCIAL BUILDINGS AS PER 2020 NYC ECC CHAPTER C4					
NYCECC CITATION	PROVISION	ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE (ECC)	SUPPORTING DOCUMENTATION
C403.2	CALCULATION OF HEATING AND COOLING LOADS	LOAD CALCULATIONS FOR HVAC SYSTEMS	DESIGN LOADS ARE DESIGNED TO COMPLY WITH SECTION C403.2.1 AND C403.2.2	DESIGNED TO COMPLY WITH SECTION C403.2.1 AND C403.2.2	SEE MECHANICAL PLANS
C403.2.3(11)	MINIMUM EFFICIENCY REQUIREMENTS FOR ELECTRICALLY OPERATED VARIABLE-REFRIGERANT-FLOW AIR CONDITIONER	AIR COOLED AIR CONDITIONER, 216,000 BTU/H	11.2 EER	11.0 EER	SEE MECHANICAL PLANS FOR EQUIPMENT SCHEDULE
C403.4	THERMOSTATIC CONTROLS (MANDATORY)	THERMOSTATS FOR MECHANICAL ZONES	ONE THERMOSTAT IS PROVIDED FOR EACH ZONE	MINIMUM ONE THERMOSTAT REQUIRED PER ZONE	SEE MECHANICAL PLANS FOR THERMOSTAT LOCATIONS.
C403.4.1.2	DEADBAND (MANDATORY)	SPLIT UNIT THERMOSTATS	EACH THERMOSTAT WILL BE PROGRAMMED AS REQUIRED	ZONE THERMOSTAT OPERATION SHALL HAVE MINIMUM 5 DEGREE FAHRENHEIT DEAD BAND BETWEEN HEATING AND COOLING	SEE MECHANICAL NOTES
C403.4.2	OFF HOUR CONTROLS (MANDATORY)	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	ALL ZONE THERMOSTATS SHALL BE OPERATED VIA THERMOSTATIC SETBACK CONTROLS OPERATED VIA AN AUTOMATIC TIME CLOCK OR A PROGRAMMABLE CONTROL SYSTEM	SEE MECHANICAL NOTES
C403.4.2.1	THERMOSTATIC SETBACK CAPABILITIES	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL HAVE THE ABILITY TO SETBACK TEMPERATURES DOWN TO 55 DEGREES OR UP TO 85 DEGREES FAHRENHEIT	SEE MECHANICAL NOTES
C403.4.2.2	AUTOMATIC SETBACK AND SHUTDOWN (MANDATORY)	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY STARTING AND STOPPING THEY SYSTEMS FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK, CAPABLE OF HAVING SETTINGS SAVED IN MEMORY FOR 10 HOURS DURING A LOSS OF POWER, AND A MANUAL SYSTEM "ON" OVERRIDE FOR UP TO TWO HOURS, OR AN OCCUPANCY SENSOR	SEE MECHANICAL NOTES
C403.4.2.3	AUTOMATIC START (MANDATORY)	ALL ZONES	EACH THERMOSTAT WILL BE PROGRAMMABLE TO MEET REQUIREMENTS	CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM AND AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE.	SEE MECHANICAL NOTES
C403.5	ECONOMIZERS	AIR ECONOMIZER PROVIDED FOR COOLING SYSTEM	000,000 BTU/H SYSTEM WITH AIR ECONOMIZER	AIR COOLED SYSTEMS WITH A COOLING CAPACITY GREATER THAN OR EQUAL TO 54,000 BTU/H SERVING OTHER THAN GROUP R OCCUPANCIES	SEE MECHANICAL SCHEDULE
C403.5.5	ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (MANDATORY)	ACC-1 ECONOMIZER FAULT DETECTION AND DIAGNOSTICS	ACC-1 INCLUDES ECONOMIZER WITH FDD CONTROLS, PER THE REQUIREMENTS	VARIABLE REFRIGERANT FLOW UNITS LISTED IN TABLES C403.3.2(10) AND C403.3.2(11) THAT ARE EQUIPPED WITH AN ECONOMIZER IN ACCORDANCE WITH SECTIONS C403.5 THROUGH C403.5.4 SHALL INCLUDE A FAULT DETECTION AND DIAGNOSTICS SYSTEM	SEE MECHANICAL SCHEDULE
C403.7.5	KITCHEN EXHAUST SYSTEMS (MANDATORY)	KITCHEN EXHAUST SYSTEMS	KITCHEN EXHAUST SYSTEM PROVIDED AS PER THE REQUIREMENTS	REPLACEMENT AIR INTRODUCED DIRECTLY INTO THE EXHAUST HOOD CAVITY SHALL NOT BE GREATER THAN 10 PERCENT OF THE HOOD EXHAUST AIRFLOW RATE. CONDITIONED SUPPLY AIR DELIVERED TO ANY SPACE SHALL NOT EXCEED THE GREATER OF THE ITEMS LISTED IN THIS SECTION OF CODE	SEE MECHANICAL SCHEDULE
C403.7.7	SHUTOFF DAMPERS (MANDATORY)	AIR INTAKES, EXHAUST OPENING REQUIREMENTS FOR DAMPERS	OUTDOOR AIR INTAKE AND EXHAUST OPENING DAMPERS AS REQUIRED	DAMPERS MUST BE PROVIDED IN ACCORDANCE WITH SECTION C403.7.7	SEE MECHANICAL PLANS

MATERIALS AND PERFORMANCE

1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY POPEYES DEVELOPMENT. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE FIVE (5) DAYS BEFORE THE CONTRACT IS TO BE LET.
2. NATIONAL ACCOUNTS: ROOFTOP HVAC EQUIPMENT, TOILET EXHAUST FANS, HVAC DUCT SYSTEMS, AND HVAC DIFFUSERS, GRILLS, AND PLENUM BOXES ARE AVAILABLE FROM NATIONAL ACCOUNTS INDICATED ON THE DRAWING COVER SHEET. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH PLANS AND MANUFACTURERS' INSTRUCTIONS. FOR NATIONAL ACCOUNTS INFO REFER TO DIRECTORY
3. ROUTING OF DUCT SYSTEMS: COORDINATE ROUTING OF DUCT SYSTEMS WITH OTHERS, LINE UP WORK TRUE TO ADJACENT SPACES AND IN A WORKMANLIKE MANNER, AND USE STANDARD RADIUS 90 ELBOWS. WHERE REQUIRED, DUCTWORK IS TO BE STURDILY SUPPORTED AND SEPARATED IN ACCORDANCE WITH ASHRAE & SMACNA STANDARDS.
4. DUCTWORK FOR HVAC SYSTEM:

NOTE:
A LICENSED TEST AND BALANCE CONTRACTOR SHALL PROVIDE ALL TOOLS AND TEST EQUIPMENT NECESSARY FOR BALANCING ALL HVAC AND EXHAUST AIR SYSTEMS. A "DIGITAL" ANEMOMETER MODEL DA 4000 WITH A 275 PROBE IS RECOMMENDED FOR MEASURING HOOD EXHAUST.

- 4.1. GENERAL NOTES:

4.1.1. VOLUME DAMPERS SHALL BE INSTALLED AT ALL BRANCH RUNOUTS.

4.1.2. DUCT DIMENSIONS INDICATED ARE INSIDE DIMENSIONS DIMENSIONS.

4.1.3. DUCT WORK SHALL BE BUILT IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.

4.1.4. DUCT BOARD IS NOT ALLOWED.
- 4.2. METAL DUCT WORK:

4.2.1. DUCT WORK SHALL BE CONSTRUCTED OF G-90 GALVANIZED SHEET METAL.

4.2.2. THE GAUGES OF METAL TO BE USED AND THE CONSTRUCTION AND BRACING OF JOINTS SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.

4.2.3. METAL DUCT SHALL BE SUPPORTED FROM BUILDING STRUCTURE ON STRIP HANGERS NOT OVER 5'-0" APART.
- 4.3. EXTERNAL SIA, R/A DUCT WRAP:

4.3.1. INSULATE EXTERIOR OF ALL SIA, R/A METAL DUCT FITTINGS WITH 2" THICK FIBERGLASS, 3/4 LB. DENSITY, BLANKET INSULATION WITH FOIL BACKING AND UL LABELLED.

4.3.2. INSULATION SHALL HAVE A FLAME SPREAD OF TWENTY FIVE(25)OR LESS AND A SMOKE DEVELOPED RATING OF FIFTY(50)OR LESS.

4.3.3. INSULATION SHALL BE OWENS-CORNING FPK25 OR EQUAL.

4.3.4. INSULATION SHALL BE LIGHTLY LAPPED WITH 2" WIDE VAPOR BARRIER PRESSURE-SENSITIVE TAPE. SEE DETAIL ON M4 SHEET.

4.3.5. DUCT WRAP SHALL BE INSTALLED IN A NEAT AND COMPETENT MANNER WITH ALL EDGES COVERED WITH APPROVED METALLIC DUCT TAPE TO VAPOR-PROOF THE ENTIRE DUCT.
- 4.4. FLEX CONNECTORS/FLEX DUCT:

4.4.1. INSULATION AND VAPOR BARRIERS PRESENT ON ALL FLEX CONNECTORS SHALL BE FITTED OVER THE CORE CONNECTION AND SHALL BE SUPPLEMENTALLY SECURED WITH A DRAW BAND AND TAPED. SEE DETAIL ON M4 SHEET.
5. TEMPERATURE SETTINGS:

5.1. AT CONCLUSION OF PROJECT, SET POINTS SHALL BE APPROXIMATELY COOLING 78 DEGREES F/ HEATING 68 DEGREES F, AND INSTRUCT OWNER HOW TO RESET.
6. ROOF CURBS:

6.1. CURBS TO BE FURNISHED BY NCA CONSULTANTS AND INSTALLED IN ACCORDANCE WITH DETAILS ON SHEET M2. COORDINATE WITH ROOF CONTRACTOR. RTU'S SHALL BE INSTALLED SUCH THAT ROOF DECK IS CONTINUOUS BENEATH, AND OPEN PLENUM CURBS FLANGE TO FLANGE. SEE M2 SHEET.
7. TESTING AND ADJUSTING OF HVAC SYSTEM:

7.1. UPON COMPLETION OF THE INSTALLATION, THE PROJECT SHALL BE TESTED AND ADJUSTED AS FOLLOWS:

7.1.1. ADJUST FAN DRIVES TO ACHIEVE REQUIRED AND RATED CFM.

7.1.2. ADJUST TEMPERATURE AND FAN CONTROL SEQUENCE.

7.1.3. ADJUST THE ENTIRE INSTALLATION AS TO MINIMIZE NOISE AND VIBRATION FROM FANS.

7.1.4. ELIMINATE ANY DUCT PULSATION BY USE OF STIFFENERS OR ADDITIONAL SUPPORTS AS REQUIRED.

7.1.5. CORRECT ANY EQUIPMENT OR COMPONENT WHICH IS GENERATING OBJECTIONABLE NOISE IN THE OPINION OF THE OWNER OR BY LOCAL AUTHORITIES.

7.1.6. BALANCE EXHAUST AND OUTSIDE AIR TO QUANTITIES INDICATED ON THE PLANS. REFER TO BUILDING AIR BALANCE SCHEDULE.

7.1.7. PROVIDE OWNER AND ENGINEER OF RECORD TWO(2)COPIES OF A WRITTEN AIR BALANCE REPORT INDICATING ALL FINAL EXHAUST, SUPPLY, AND OUTSIDE AIR FLOWS.
8. PIPING TO BE HERMETICALLY SEALED.
9. CONTROLS: FURNISH AND INSTALL AS INDICATED ON DRAWINGS. FURNISH AND INSTALL ALL CONTROL WIRING AND CABLES FROM HVAC UNITS, TEMPERATURE SENSORS, PHOTO CELL, AND CONTRACTOR PANEL IF USED. ROUTE CONTROL WIRING IN RACEWAY IN EQUIPMENT IF PROVIDED.
10. HOOD EXHAUST FANS AND DUCTWORK: INSTALL ALL HOOD EXHAUST FANS IN ACCORDANCE WITH THE PLANS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. COOKING EXHAUST FANS ARE SUPPLIED BY OWNER. VENTILATOR EXHAUST DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 96.
11. CLEANUP: AFTER COMPLETION OF THE WORK BEFORE FINAL INSPECTION CLEAN HVAC EQUIPMENT.
12. FILTERS: PROVIDE CLEAN SET OF FILTERS FOR EACH HVAC UNIT WHEN TURNED OVER TO THE OWNER.
13. HVAC OPERATOR'S MANUAL AND DIAGRAMS:

13.1. PROJECTS PARTICIPATING IN THE NATIONAL ACCOUNTS PROGRAM SHALL FOLLOW THE PROCEDURE OUTLINED IN THE NATIONAL ACCOUNT.

13.2. PROJECTS NOT PARTICIPATING IN THE NATIONAL ACCOUNT SHALL FOLLOW THE FOLLOWING PROCEDURE:

13.2.1. PREPARE IN DUPLICATE A MANUAL DESCRIBING THE PROPER MAINTENANCE AND OPERATION OF THE SYSTEM. THIS MANUAL SHALL NOT CONSIST OF STANDARD FACTORY-PRINTED INSTRUCTIONS, ALTHOUGH THESE MAY BE INCLUDED, BUT SHALL BE PREPARED TO DESCRIBE THIS PARTICULAR PROJECT.

13.2.2. THE MANUALS SHALL BE BOUND, INDEXED, DATED, AND SIGNED BY THE GENERAL CONTRACTOR. ONE (1) COPY SHALL BE SENT TO POPEYES DEVELOPMENT AND THE OTHER TO THE OWNER. QUALIFIED REPRESENTATIVES OF THE AIR CONDITIONING CONTRACTOR SHALL MEET WITH THE DESIGNATED REPRESENTATIVE OF THE OWNER. THE OWNERS REPRESENTATIVE SHALL BE INSTRUCTED IN THE PROPER OPERATION AND MAINTENANCE OF THE HVAC AND CONTROL SYSTEM.
14. GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF COMPLETION. IN ADDITION, ALL REFRIGERATION COMPRESSORS SHALL BEAR A NON-PRORATED 5-YEAR FACTORY WARRANTY, AND ALL EXTENDED WARRANTIES.
15. SERVICE ACCESS:

15.1. PROVIDE SERVICE ACCESS AS REQUIRED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF SUCH ACCESS IS NOT AVAILABLE, NOTIFY OWNER AND ATTEMPT TO SEE IF NECESSARY CHANGES CAN BE WORKED OUT WITH OTHER TRADES. IF NOT, DO NOT INSTALL EQUIPMENT WHICH DOES NOT MEET MANUFACTURER'S REQUIREMENTS FOR ACCESSIBILITY. IN NO CASE BID, SUBMIT, OR INSTALL EQUIPMENT IN SITUATIONS THAT DO NOT MEET THE MANUFACTURER'S WARRANTY REQUIREMENTS.
16. ENVIRONMENTAL CORROSION PROTECTION, CONDENSER, COOLING/HEATING COILS:

16.1. REQUIRED FACTORY DIPPED COATING WITHIN ONE MILE OF ANY SALT WATER BODY. FACTORY PRE-COAT WITHIN ONE TO FIVE MILES OF ANY SALT WATER BODY.

EXHAUST HOOD DUCT (BY G.C.)

1. FRYER EXHAUST DUCTWORK ARE SIZED TO MAINTAIN A MINIMUM 1660 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS SEALED LIQUID TIGHT.
2. ALL HORIZONTAL RUNS OF GREASE DUCT, EXHAUST AND CONDENSATE SHALL SLOPE BACK TOWARD THE HOOD, GRILLE OR DRAIN AT A SLOPE OF 1" PER FOOT.
3. THE MECHANICAL CONTRACTOR IS TO PROVIDE CLEANOUTS, AS REQUESTED PER DETAIL ON M5 SHEET.
4. THE DISCHARGE OF THE GREASE EXHAUST FAN SHALL BE UPWARD AND A MINIMUM OF 40" ABOVE THE ROOF SURFACE AND A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
5. ALL GREASE EXHAUST DUCTS SHALL HAVE RADIIUSED ELBOWS. EXHAUST DUCT PROTECTION:
6. GREASE EXHAUST DUCT SHALL BE CARBON STEEL 16 GAUGE WELDED DUCTS PER NFPA-96 PROTECTED WITH THE FOLLOWING: 1" AIR SPACE FROM DUCT TO 22 GA SHEET METAL COVERED WITH 1" MINERAL WOOL AND WIRE MESH SECURED TO COMBUSTIBLES WITH 1" NON COMBUSTIBLE SPACERS TO REDUCE CLEARANCE TO COMBUSTIBLES TO 3" PER NFPA 96 A-1-3.2.

OPTIONAL COMBUSTIBLE PROTECTION: USE FIRE MASTER GREASE DUCT FIRE PROTECTION SYSTEM BY THERMAL CERAMICS WHICH OFFERS ZERO CLEARANCE TO COMBUSTIBLE & 2 HR. RATING.

EXHAUST HOOD NOTES

1. THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED BY OWNER AND INSTALLED BY THE HVAC CONTRACTOR.

1.1. STAINLESS STEEL HOODS AS SPECIFIED PRE PIPED FOR FIRE PROTECTION SYSTEM, CEILING CLOSURE STRIP, AND ALL EXHAUST FANS AND CURBS.
2. THE HVAC CONTRACTOR SHALL RECEIVE THE ABOVE EQUIPMENT, UNCRATE, BE RESPONSIBLE FOR REPORTING DAMAGE RECEIVED DURING SHIPMENT, AND BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE ABOVE EQUIPMENT ONCE RECEIVED ON THE JOB.
3. EXHAUST HOODS PROVIDED WILL MEET OR EXCEED THE FOLLOWING REQUIREMENTS, OR AS BY THE ACTIONABLE CODE:

3.1. NSF # 1362 BEAR THE NSF SEAL OF APPROVAL.

3.2. U.L. CLASSIFICATION # 24N1

3.3. MEET OR EXCEED NFPA # 96, 1998 EDITION

3.4. 2006 IMC
4. THE MECHANICAL ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING A SET OF SHOP DRAWINGS FROM THE HOOD MANUFACTURER. THE ENGINEER SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY LOCAL CODES WHICH WILL AFFECT THE HOOD MANUFACTURE OR INSTALLATION.
5. THE HOOD MANUFACTURER SHALL PROVIDE PRE-PIPED AUTOMATIC FIRE CONTROL SYSTEMS FOR THE FRYER HOOD INCLUDING FIRE CONTROL CABINETS - AND FURNISH A 2 POLE MICRO SWITCH FURNISHED FOR EQUIPMENT SHUT OFF. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL INSTALLATION AND INSPECTIONS OF THE HOOD EXHAUST SYSTEM HOOD EXTINGUISHING SYSTEM BY CERTIFIED FIRE SUPPLY CONTRACTOR.
6. THE PLUMBING CONTRACTOR SHALL INSTALL THE MECHANICAL GAS VALVE IN ACCORDANCE WITH THE APPLICABLE CODES. THE VALVE SHALL BE PROVIDED BY PLUMBING CONTRACTOR.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING IN ACCORDANCE WITH THE "HOOD WIRING DIAGRAM" SHEET AS DIRECTED BY THE ELECTRICAL ENGINEER.
8. MANUAL PULL STATION SHALL BE PROVIDED BY HOOD CONTRACTOR AND INSTALLED BY FIRE SUPPLY CONTRACTOR.

REGIONAL COORDINATION

MAKE-UP AIR FOR THE FRYER HOOD SHALL BE INDUCED THROUGH THE HVAC SYSTEMS, AS LONG AS THE OUTSIDE AIR QUANTITIES DO NOT EXCEED 25% OF THE HVAC SYSTEM CAPACITIES. IF ADDITIONAL MAKE-UP AIR IS REQUIRED, THE ENGINEER SHALL CONTACT THE HOOD MANUFACTURER TO DESIGN AN ADDITIONAL TEMPERED OR NON-TEMPERED MAKE-UP AIR SYSTEM, DEPENDING ON REGIONAL WEATHER REQUIREMENTS.

GENERAL NOTES

1. HVAC CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.
2. ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. PROVIDE AMPLE CURBS.
3. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT. REFER TO ROOF PLAN.
4. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
5. CONDENSATE DRAINAGE FROM ROOF TOP HVAC UNITS SHALL BE TRAPPED. REFER TO ROOF PLAN.
6. PROVIDE VIBRATION ISOLATION GASKETS AT FLANGE MARRIAGES. SEE DETAIL ON M4 SHEET.
7. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
8. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
9. THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
10. THIS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
11. THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED ITEMS. MOUNT 54" AFF.
12. MECHANICAL CONTRACTOR TO INSULATE BACKSIDE OF ALL DIFFUSERS.
13. ALL DAMAGED COIL FINS SHALL BE COMBED STRAIGHT.

SECTION 15B - HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION

- GENERAL PROVISIONS
1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING HEATING, VENTILATING, AIR CONDITIONING, REFRIGERATION SYSTEMS BY OTHERS. WORK UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO:

1.1. FURNISH AND INSTALL THE FOLLOWING: ROOFTOP UNITS AND CURBS, INSULATION, DUCT WORK FOR AIR DEVICES, HVAC CONTROLS AND PROPER LOW VOLTAGE COMPONENTS FOR COMPLIANCE WITH NFPA 96 AND 72.

1.2. INSTALL THE FOLLOWING: - EXHAUST FANS, HOODS, AND GREASE RISER, ICE MACHINE AIR COOLED CONDENSER ON ROOF BY OTHERS.

1.3. GENERAL REQUIREMENTS: ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.

NOTE:
WHERE ENERGY CALCULATIONS ARE REQUIRED, THESE SHALL BE PREPARED BY THE MECHANICAL ENGINEER AT THE DIRECTION OF THE ARCHITECT. A COPY OF THE CALCULATION SHALL BE FORWARDED TO POPEYES DEVELOPMENT FOR THEIR RECORDS.

COORDINATION:
COORDINATE WORK WITH OTHER TRADES. LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. FIELD LOCATE ROOF CURBS BASED ON THE GENERAL DIRECTIONS GIVEN ON CONSTRUCTION DOCUMENTS.

MECHANICAL LEGEND

	CEILING SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST REGISTER
	DOUBLE LINE DUCT
	DOUBLE LINE PIPE
	ACOUSTIC LINING IN DUCT
	WIRE MESH SCREEN
	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
	VOLUME DAMPER
	WALL MOUNTED THERMOSTAT FOR UNIT INDICATED
	REMOTE HOOD PULL STATION
	REMOTE DUCT TEMPERATURE SENSOR
	FUSIBLE LINK
	PIPE UP
	PIPE DROP
	BOTTOM CONNECTION
	TOP CONNECTION
	CAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	GATE VALVE
	CHECK VALVE
	BALL VALVE
	AUTOMATIC THREE WAY CONTROL VALVE
	AUTOMATIC TWO WAY CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	COMBINATION BALANCING VALVE AND METER STATION
	GLOVE VALVE
	PRESSURE RELIEF VALVE
	PLUG VALVE
	STRAINER WITH BLOW DOWN VALVE

HVAC CONTROL NOTES

THE HVAC CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING DIAGRAMS FOR THE HVAC EQUIPMENT. 24 VOLT WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL 24 VOLT TRANSFORMERS AS REQUIRED.

AIR CONDITIONING UNITS
THE AIR CONDITIONING UNIT FANS, HEATING AND COOLING SHALL BE CONTROLLED FROM 24 VOLT ROOM THERMOSTATS LOCATED APPROXIMATELY AS SHOWN ON THE PLANS. THE THERMOSTATS SHALL BE MOUNTED BY THIS CONTRACTOR 54" A.F.F.

FANS
KITCHEN EXHAUST FANS SHALL BE CONTROLLED BY A SWITCH LOCATED ON THE HOOD SERVED BY THAT FAN.

TOILET EXHAUST FANS SHALL BE CONTROLLED BY A ROOM OCCUPANCY SENSOR.

HVAC UNITS SHALL BE PROGRAMMED FOR "FAN-ON" DURING OCCUPIED TIMES, FAN SHALL CYCLE WITH UNITS DURING UNOCCUPIED TIMES.

SMOKE DETECTORS
PROVIDE EACH AIR CONDITIONING UNIT WITH SUPPLY AIRFLOW GREATER THAN 2000 CFM WITH A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN AND SUPPLY AIR DUCT SYSTEM PRIOR TO MIXTURE OF OUTSIDE AIR CAPABLE OF SHUTTING DOWN ITS RESPECTIVE AIR CONDITIONING UNIT UPON ACTIVATION. THE SMOKE DETECTOR SHALL CONSIST OF A SIMPLEX DUCT DETECTOR WITH PHOTOELECTRIC DETECTOR, AND SAMPLING TUBE. ALL LINE VOLTAGE WIRING AND CONDUIT SHALL BE BY THE ELECTRICAL CONTRACTOR AND ALL OTHER WORK SHALL BE BY THE HVAC CONTRACTOR. ACTIVATION OF A DUCT SMOKE DETECTORS SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

NOTE:
GENERAL CONTRACTOR SHALL COORDINATE TRUSS SPACING PLUM TO ACCOMMODATE STRAIGHT GREASE RISERS FROM HOOD TO FAN INLET.

APPROVED HVAC NATIONAL ACCOUNT
APPROVED VENDORS:
CARRIER
TRANE
LENNOX

LINE REPRESENTATION

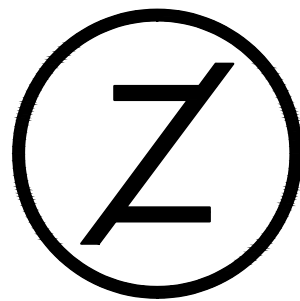
	NEW PIPING, DUCTWORK OR EQUIPMENT
	EXISTING DUCTWORK
	EXISTING PIPING
	EXISTING PIPING, DUCTWORK OR EQUIPMENT TO BE REMOVED
	THERMOSTAT/SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE RELOCATED
	RELOCATED POSITION OF EXISTING EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED

DRAWING NOTATIONS

	DRAWING KEYNOTE TAG
	DRAWING KEYNOTE TAG
	DRAWING KEYNOTE TAG
	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A-SECTION DESIGNATION B-DRAWING NO.
	POINT OF NEW CONNECTION TO EXISTING WORK
	POINT OF DEMOLITION
	REMOVE AND PATCH EXISTING WORK
	REVISION DELTA

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
CFM	CUBIC FEET PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
OA	OUTSIDE AIR
RPM	REVOLUTION PER MINUTE
RTU	ROOFTOP UNIT
WB	WET-BULB



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Revisions		
No.	Description	Date

DOB Approval Stamp:



Popeyes Louisiana Kitchen

102-18 Roosevelt Avenue
Queens, NY 11368

Mechanical
Symbols and Notes

Project No. 2012-20	
Date: 03/10/2021	
Drawn By: RSE	
Scale: Not to Scale	
NY License No. 042821	

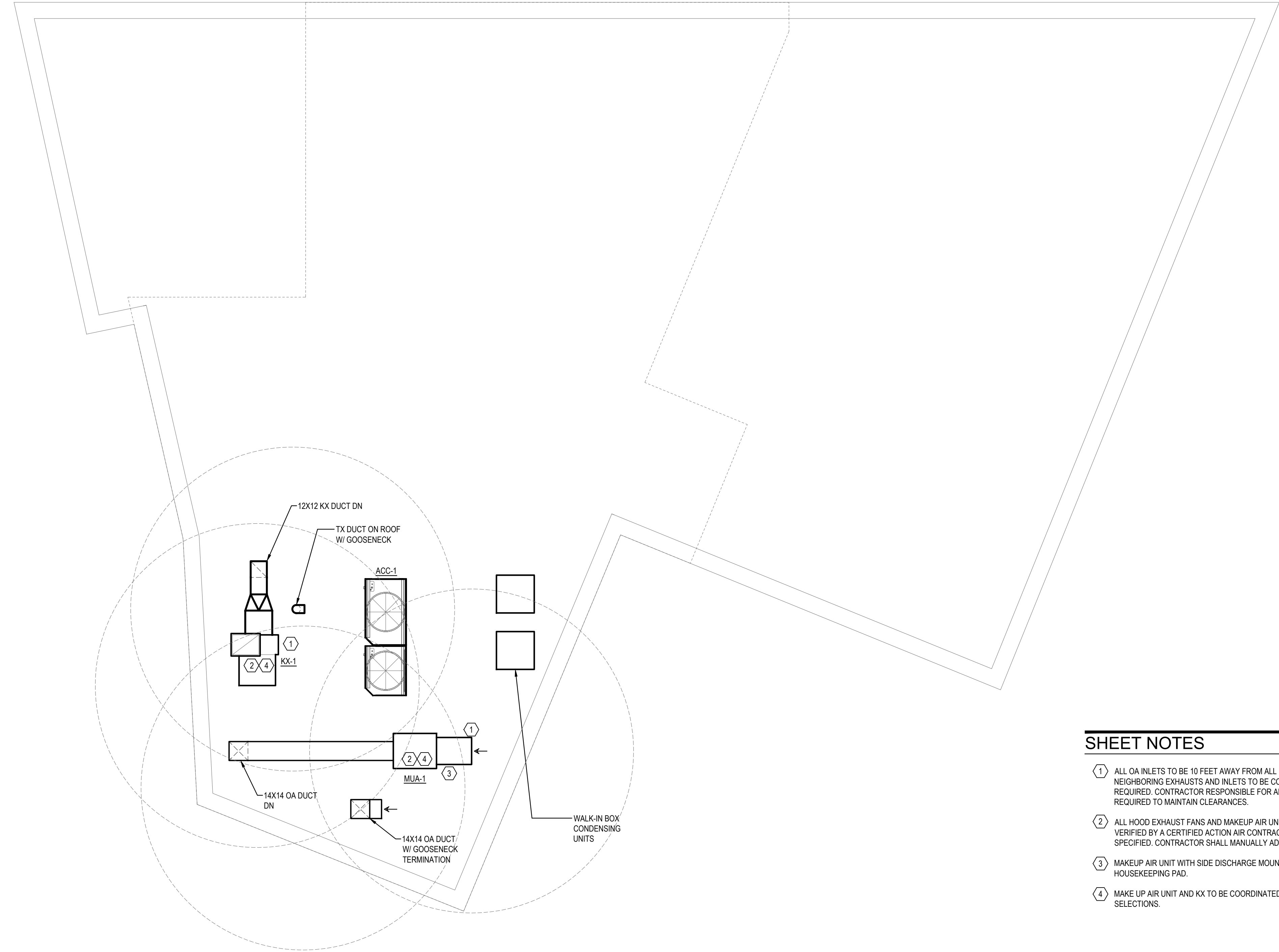
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1/4"=1'-0"

- 4 of 7



1

MECHANICAL PLAN - ROOF

1/4"=1'-0"

SHEET NOTES

- ALL OA INLETS TO BE 10 FEET AWAY FROM ALL EXHAUSTS. CLEARANCE FROM NEIGHBORING EXHAUSTS AND INLETS TO BE COORDINATED IN FIELD AS REQUIRED. CONTRACTOR RESPONSIBLE FOR ANY OFFSETS IN EXHAUST DUCT REQUIRED TO MAINTAIN CLEARANCES.
- ALL HOOD EXHAUST FANS AND MAKEUP AIR UNIT TO BE TESTED IN FIELD AND VERIFIED BY A CERTIFIED ACTION AIR CONTRACTOR FOR AIR FLOW RATES AS SPECIFIED. CONTRACTOR SHALL MANUALLY ADJUST AIR FLOWS AS REQUIRED.
- MAKEUP AIR UNIT WITH SIDE DISCHARGE MOUNTED ON CONCRETE HOUSEKEEPING PAD.
- MAKE UP AIR UNIT AND KX TO BE COORDINATED WITH VENDOR BEFORE FINAL SELECTIONS.

DRAWING NOTES

- HVAC CONTRACTOR
- THE HVAC CONTRACTOR SHALL INSTALL THE TYPE 1 FRYER HOODS LEVEL & AT THE PROPER LOCATION, GREASE RISERS, ALL HVAC ROOF CURBS, RTUS, ALL HVAC DUCTWORK, GRILLES, HVAC CONTROLS AS NOTED, INCLUDING SMOKE DETECTORS. REFER TO THE HOOD SHEETS FOR PROPER HOOD INFORMATION. THE HVAC CONTRACTOR SHALL INSTALL GREASE RATED EXHAUST DUCT FROM THE HOOD COLLAR TO THE BASE OF THE EXHAUST FANS ON THE ROOF PER NFPA96 AND LOCAL CODES. FLARE GREASE EXHAUST RISER AT THE TOP TO THE OPENING OF THE VENTURI OF FAN. THE HVAC CONTRACTOR SHALL VERIFY LOCATIONS OF EXHAUST FANS AND THE HOODS ON SITE WITH DIRECT COORDINATION WITH THE G.C. THE G.C. SHALL SIGN OFF ON THE LOCATION OF FRYER HOOD, SO THAT RISERS CAN BE FIT PROPERLY. TRUSS ENG. GROUP ALLOW SPACING FOR GREASE RISER TO PASS THRU CENTER OF TRUSS BAY AT 2 LOCATIONS. G.C. SHALL COORDINATE STRUCTURAL FRAMING TO ACCOMMODATE PLUM RISERS. G.C. SHALL PROVIDE PERIMETER FRAMING & PENETRATIONS AT ALL ROOF CURBS.
 - SEE NCA PACKAGE SCHEDULE NOTES FURNISHED ITEMS FOR HVAC INSTALLATION. ALL NON-FURNISHED ITEMS NECESSARY TO COMPLETE THE DESIGN INTENT OF THESE DOCUMENTS SHALL BE BY THE HVAC CONTRACTOR.
 - ALL NCA PROVIDED ROOF CURBS SHALL BE FABRICATED FROM 18 GA. G-90 MTL. WITH FULLY WELDED SEAMS, WATER TIGHT AND INTERNALLY INSULATED. FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.
 - SHIMS SHALL BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH ON BUILT UP ROOFS ONLY. OTHER ROOF CONSTRUCTIONS SHALL BE EVALUATED FOR BUILT-IN PITCH ON CURB.
 - ALL FLEX DUCT SHALL BE U.L. LISTED, R-6 BENEATH THERMAL BLDG. ENVELOPE & R-8 WHEN CEILING INSULATION IS USED. FLEX SHALL BE FOIL-BACKED, CLASS 1 AIR DUCT WITH FIRE AND SMOKE RATING [25]-[50].
 - FLEX DUCT SHALL BEAR A RECTANGULAR OR SQUARE SYMBOL FOR UNLIMITED LENGTH OF RUN OUT OR AS PER LOCAL CODE.
 - ALL METAL DUCT AND AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-6, 2" X .75 DENSITY FOIL-BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]-[50].
 - ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.
 - ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE). INTERNALLY LINED DUCTWORK IS NOT ALLOWED.
 - UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS SHALL HAVE A MANUAL VOLUME CONTROL DAMPER. (SEE DAMPER SYMBOLS EXPRESSED ON PLAN.
 - THE HVAC CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.
 - THE HVAC CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING A ONE-YEAR PERIOD FOR ALL HVAC EQUIPMENT AND PROVIDE AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE RTUS. ALL FANS TO BE U.L. LISTED.
 - UPON COMPLETION OF PROJECT, THE HVAC CONTRACTOR IS TO PROVIDE A CERTIFIED TEST AND BALANCE, AND A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO WITHIN ±10% OF AMOUNTS INDICATED ON THE FLOOR PLAN AND SCHEDULES.
 - THE HVAC CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, RTUS, AND SMOKE DETECTORS.

GENERAL CONTRACTOR

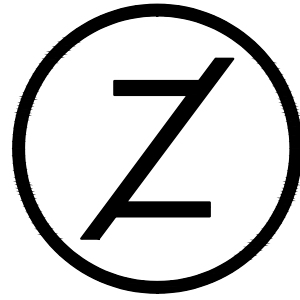
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. ALL MATERIAL MUST BE STORED INSIDE THE BUILDING. FRYER HOOD MUST BE STORED IN THE KITCHEN NEAR PROPOSED LOCATION AWAY FROM THE RISK OF DAMAGE.
- ALL ROOF, CEILING, WALL, AND STRUCTURAL FRAMING REQUIRED FOR UNIT, FAN, DUCT, DIFFUSER, AND ALL OTHER HVAC WORK SHALL BE BY THE G.C. COORDINATE ON SITE WITH HVAC CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER FBC AND LOCAL CODES.
- ROOF FRAMING SIZES ARE BASED OFF OF THE FAN & ROOF TOP UNIT EQUIPMENT SCHEDULES. IF OTHER EQUIPMENT IS USED, VERIFY ROOF FRAMING REQUIREMENTS WITH SCHEDULES. COORDINATE ON SITE WITH HVAC CONTRACTOR. ROOFING MATERIAL SHALL NOT COVER THE TOP OF ANY ROOF CURB.

ELECTRICAL CONTRACTOR

- THE ELECTRICAL CONTRACTOR SHALL ROUTE HIGH & LOW VOLTAGE WIRING CONTROL WIRING. LOW VOLTAGE WIRING SHALL BE FURNISHED BY THE HVAC CONTRACTOR. LOW & HIGH VOLTAGE WIRING MAY NOT BE IN THE SAME CONDUIT. WIRING MAY NOT ENTER OR EXIT CURB AT ANY POINT. ALL WIRING SHALL ENTER ROOF TOP UNIT AT OUTER ACCESS. USE WEATHER PROTECTED CONNECTIONS, BOXES & CONDUIT. DISCONNECTS SHALL BE PROVIDED BY THE E.C. FOR ALL REQUIRED ROOF EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL USE A MINIMUM OF 4"-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
- FOR EACH UNIT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE T-STAT, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERLOCKING DEVICES REQUIRED BETWEEN THE HOODED APPLIANCES & HVAC TO COMPLY WITH NFPA-96, INCLUDING THE INSTALLATION OF THE NCA INTERLOCK PANEL PER SHEET M-5, THIS SET. THE PANEL FULLY COMPLIES WITH NFPA-96. ELECTRICAL DISTRIBUTION PLANS & SCHEDULES SHALL BE FORWARDED TO NCA FOR THE PRODUCTION OF THE PANEL PRIOR TO ROUGH-IN DISCIPLINES OF THE ELECTRICAL CONTRACTOR TO ROUTE HIGH VOLTAGE CIRCUITS THROUGH ASSIGNED DRY CONTACT TERMINALS IN PANEL & FOR FIELD LOCATION. CONTACTOR PANEL MUST BE IN PLACE PRIOR TO HIGH VOLTAGE ROUGH-IN. IF PANEL IS NOT USED THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES.

PLUMBING CONTRACTOR

- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL CONDENSATE DRAINS DOWNSTREAM OF P-TRAPS FOR A/C EQUIPMENT & DISPOSE OF CONDENSATE AT AN APPROVED LOCATION. DO NOT PENETRATE RTU CURB FOR MOUNTING OR OTHER.
- THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10'-0" MINIMUM CLEARANCE REQUIRED OR PER LOCAL CODE.
- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 18" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.



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Revisions

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Popeyes Louisiana Kitchen

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Mechanical
Roof Plan

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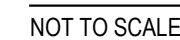
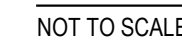
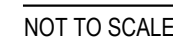
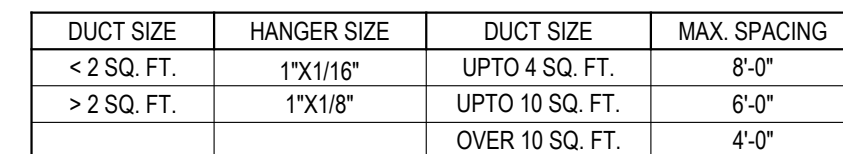
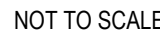
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DESIGNATION	PERFORMANCE				POWER		AIRFLOW			MANUFACTURER/ MODEL NO.	COMMENTS
	KW	STAGES	EF (°F)	LAT (°F)	VOLTIØ/Hz	AMPS	DUCT SIZE	VELOCITY (FPM)	OPERATING CFM		
EDH-1	10	1	0	40	208/3Ø	27.8	12X12	755	755	GREENHECK/ IDHB	SEE NOTES
NOTES: 1. DISCONNECT SWITCH 2. AUTOMATIC THERMAL CUTOUT 3. TRANSFORMER W/ FUSE 4. CONTROL FUSE 5. NEPTRONIC CONTROLLER 6. ELECTRONIC AIRFLOW SENSORS 7. SCR CONTROLLER 8. COIL GRADE A (N/C: 80) 9. CONTROL PANEL NEMA 1 10. CONTROL BOX W/ LEFT EXT.											

DESIGNATION	TYPE	FRAME SIZE	DUCT SIZE	FINISH	OPENING SIZE	QTY	MANUFACTURER/ MODEL
CD-1	SUPPLY 4 WAY	12X12	6"Ø	WHITE	T-BAR	--	5700
CD-2	SUPPLY 4 WAY	24X24	10"Ø	WHITE	T-BAR	--	5700
CD-3	SUPPLY PERFORATED	12X12	10"Ø	WHITE	T-BAR	--	7550F -F
RG-1	RETURN	24X24	SEE PLAN	WHITE	T-BAR	--	RH
RG-2	RETURN	48X24	SEE PLAN	WHITE	T-BAR	--	RH

AIR OUTLET SCHEDULE NOTES :

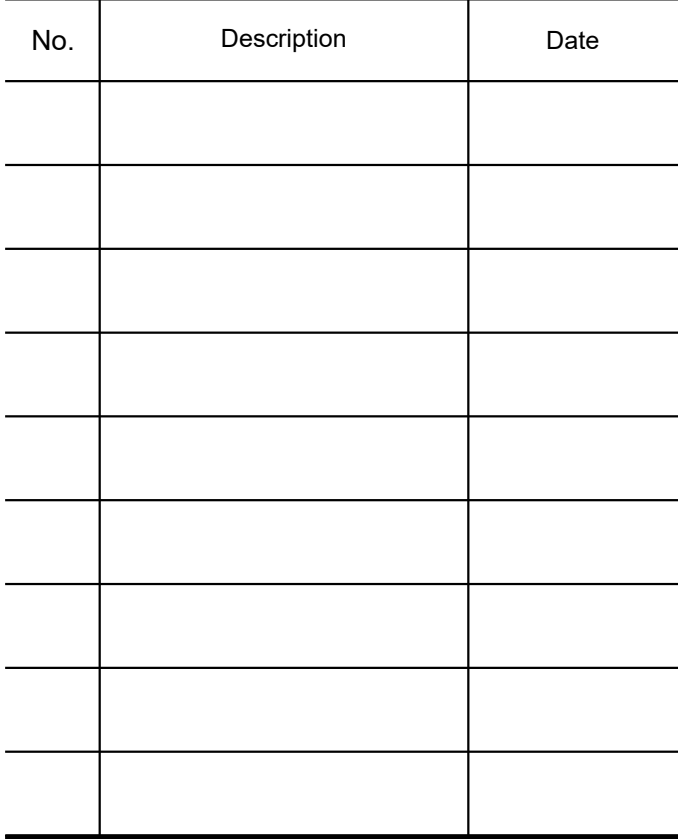
ALL DIFFUSERS SHALL BE MANUFACTURED BY METALAIRE AND 100% ALUMINUM CONSTRUCTION

DESIGNATION	SUPPLY AIR CFM	OUTSIDE AIR CFM	RETURN AIR CFM	EXHAUST AIR CFM	BLDG PRESSURE CFM	% OUTSIDE AIR
AC-1	1110	150	960	--	+ 150	13.5
AC-2	1110	150	960	--	+ 150	13.5
AC-3	1766	300	1466	--	+ 300	17
AC-4	2855	155	2700	--	+ 155	6
KX-1	--	--	--	1715	- 1715	--
TX-1	--	--	--	100	- 100	--
MUA-1	--	1060	--	--	+ 1060	--
TOTAL	6841	1815	6086	1815	+ 0	26.5

DESIGNATION	QTY	LOCATION	PERFORMANCE		POWER		AIRFLOW (CFM)			REFRIGERANT			UNIT DIMENSIONS (IN)			WEIGHT (LBS)	SOUND PRESS: LVL (dBA)(HIGH)	MANUFACTURER/ MODEL NO	COMMENTS
			COOLING TOTAL / SENSIBLE (BTU/H)	HEATING (BTU/H)	VOLT/Ø/Hz	MCA	HIGH	MED.	LOW	TYPE	GAS FLARE (IN)	LIQUID FLARE (IN)	HEIGHT	WIDTH	DEPTH				
AC-1	1	BOH AREA	30,600 / 21,500	38,400	208/1/60	1.74	1,110	895	675	R410A	3/4	3/8	10-5/8	44-11/16	27-9/16	86	41	FUJITSU ARUM36TLAV2	
AC-2	1	POS AREA	30,600 / 21,500	38,400	208/1/60	1.74	1,110	895	675	R410A	3/4	3/8	10-5/8	44-11/16	27-9/16	86	41	FUJITSU ARUM36TLAV2	--
AC-3	1	CUSTOMER AREA	48,000 / 41,800	54,000	208/1/60	4.83	1,766	1,589	1,354	R410A	3/4	3/8	10-5/8	44-11/16	27-9/16	101	41	FUJITSU ARUH48TLAV2	--
AC-4	1	FOOD PREP AREA	81,700 / 54,600	103,700	208/1/60	9.4	2,855	2,500	2,120	R410A	7/8	1/2	21-5/8	62-1/2	27-9/16	231	48	FUJITSU ARUH96TLAV2	--
OPTIONS AND ACCESSORIES: 1. IF NECESSARY, PROVIDE CONDENSATE PUMP FOR EACH RESPECTIVE INDOOR UNIT. 2. WIRELESS REMOTE CONTROLLER PROVIDED FOR EACH UNIT.																			

DESIGNATION	QTY	LOCATION	PERFORMANCE		POWER						PIPE CONNECTIONS		UNIT DIMENSIONS (IN)			WEIGHT (LBS)	SOUND PRESS. LVL (dBA)(HIGH)	OPERATING TEMP. RANGE		MANUFACTURER/ MODEL NO.	COMMENTS	
			NOMINAL RATED COOLING (BTU/H)	NOMINAL RATED HEATING (BTU/H)	EER	IEER	COP @ 47°F	VOLT/0Hz	MCA	MOPP	LIQUID (IN)	GAS (IN)	HEIGHT	WIDTH	DEPTH			COOLING (°F)	HEATING (°F)			
ACC-1	1	SEE PLANS	192,000	216,000	11.2	24.3	3.75	208/3/60	91	110	1-1/8	7/8	66-9/16	85-7/16	30-1/8	1236	63	14-115°F	-4~70°F	FUJITSU AOUA192TLBVG	SEE OPTIONS AND ACCESSORIES	
<div> <div> OPTIONS AND ACCESSORIES: <ol style="list-style-type: none"> PROVIDE EXTENDED WARRANTY FOR COMPRESSOR. PROVIDE MOUNTING PAD. PROVIDE PORT ADAPTERS AS NEEDED. PROVIDE WITH MAIN CONTROLLER </div> <div> PERFORMANCE NOTE: <ol style="list-style-type: none"> NOMINAL COOLING PERFORMANCE BASED ON INDOOR 80°F DB/67°F WB AND OUTDOOR 95°F DB/75°F WB. NOMINAL HEATING PERFORMANCE BASED ON INDOOR 70°F DB/60°F WB AND OUTDOOR 47°F DB/43°F WB. RATED PERFORMANCE BASED ON AHRI SPECIFICATIONS. </div> </div>																						

DESIGNATION	AREA SERVED	CFM	TOTAL STATIC PRESSURE (IN W.G.)	FAN HP	DRIVE	RPM	ELECTRICAL VOLT/Ø/Hz	NCA CURB SIZE (LxWxH)	ACCESSORIES	MANUFACTURER/ MODEL	COMMENTS
TX-F	RESTROOM	100	0.24	--	DIRECT	--	115/1	--	--	GREENHECK / SP-B110	--
<u>GREENHECK OPTIONS AND ACCESSORIES:</u> 1. UL/CUL 507 LISTED - ELECTRIC FAN 2. ROUND HOODED WALL CAP, PN: WC-6, SHIPPED LOOSE 3. ROUND DUCT CONNECTION 4. ENERGY STAR RATED											

[illegible]

7 of 7