



NOTE:
UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRIC POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF GAS AND ELECTRIC SUPPLY TO ALL APPLIANCES UNDER THE PROTECTED HOOD. THE PLUMBING CONTRACTOR SHALL PROVIDE A MASTER SOLENOID VALVE IN GAS LINE TO DISCONNECT ALL GAS APPLIANCES, MANUAL GAS AND ELECTRIC RESETS ARE REQUIRED. ALL MAKEUP AIR FANS AND KITCHEN ROOF TOP UNITS SHALL DE-ENERGIZE UPON ACTIVATION OF FIRE/ANSUL HOOD SYSTEM.

NOTE:
TYPE I HOODS SHALL BE DESIGNED AND INSTALLED TO AUTOMATICALLY ACTIVATE THE EXHAUST FAN WHENEVER COOKING OPERATIONS OCCUR. THE ACTIVATION OF THE EXHAUST FAN SHALL OCCUR THROUGH AN INTERLOCK WITH THE COOKING APPLIANCE, BY MEANS OF HEAT SENSORS OR BY MEANS OF OTHER APPROVED METHODS.

NOTE:
MECHANICAL EQUIPMENT, APPLIANCES AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES ON THE EQUIPMENT AND THE SUPPORTS AS DETERMINED IN ACCORDANCE WITH THE BUILDING CODE. ROOF MOUNTED MECHANICAL UNITS AND SUPPORTS SHALL BE SECURED TO THE STRUCTURE. THE USE OF BUILDING CODE, ROOF MOUNTED MECHANICAL UNITS AND SUPPORTS SHALL BE SECURED TO THE STRUCTURE. THE USE OF WOOD "SLEEPERS" SHALL NOT BE PERMITTED.

CAPTURE AIR NOTE:
CONTRACTOR TO MEASURE DUCTING IMMEDIATELY AFTER OVEN INSTALLATION AND PROMPTLY PROVIDE INFORMATION TO CAPTURE AIR SYSTEMS FOR FABRICATION, FABRICATION AND DELIVER TAKE APPROXIMATELY FOUR (4) WEEKS MINIMUM. INCORPORATE INTO CONSTRUCTION SCHEDULE ACCORDINGLY.

NOTE:
CONTRACTOR TO FIELD VERIFY TRUSS WEBBING SIZE AND LOCATION PER SITE AS STRUCTURE COULD CHANGE AT DIFFERENT LOCATION.

PLAN KEYED NOTES

- SUPPLY AND RETURN DUCT - TRANSITION AS REQUIRED. FIELD VERIFY ALL DUCT ROUTING PRIOR TO FABRICATION. PROVIDE FLEX CONNECTION FOR VIBRATION ISOLATION.
- CONTRACTOR SHALL PROVIDE A 7-DAY DIGITAL PROGRAMMABLE THERMOSTAT IN MANAGERS OFFICE MOUNTED 48" TO TOP OF DEVICE. MOUNT THERMOSTAT AT 48" IF ADA REQUIREMENTS APPLY. COORDINATE EXACT LOCATION WITH TENANT CONSTRUCTION MANAGER. THE ENTIRE CONTROL SYSTEM SHALL BE PROVIDED COMPLETE IN EVERY RESPECT BY THE MECHANICAL CONTRACTOR.
- MOUNT REMOTE TEMPERATURE OR TEMPERATURE/HUMIDITY SENSOR IN AREA SHOWN AT 66" AFF. COORDINATE EXACT LOCATION WITH TENANT CONSTRUCTION MANAGER. THE ENTIRE CONTROL SYSTEM SHALL BE PROVIDED COMPLETE IN EVERY RESPECT BY THE MECHANICAL CONTRACTOR.
- INTERLOCK RESTROOM EXHAUST FAN INTO KITCHEN LIGHTS. EXHAUST FAN SHALL ENGAGE DURING KITCHEN OPERATIONAL HOURS.
- UNDERCUT DOOR 1" FOR AIR PASSAGE.
- EXHAUST DUCT DOWN FROM KITCHEN EXHAUST FAN ON ROOF. TRANSITION AND OFFSET AS REQUIRED TO SIZE SHOWN ON PLAN. ROUTE DUCTWORK TO HOOD(S) EXHAUST OPENING AND TRANSITION AS REQUIRED. FIELD VERIFY ROUTING PRIOR TO BID AND FABRICATION. SEE HOOD DRAWING FOR HOOD OPENING SIZES.
- MAKE-UP AIR DUCT DOWN FROM MAKE-UP AIR UNIT ON ROOF. TRANSITION AS REQUIRED TO DUCT SIZE SHOWN ON PLAN. ROUTE DUCTWORK TO HOOD(S) MAKE-UP AIR OPENING AND TRANSITION AS REQUIRED. BESIDES HOOD BALANCING DAMPER, PROVIDE ADDITIONAL AIR BALANCING DAMPER IN THE MA DUCT THAT IS ACCESSIBLE FOR AIR BALANCE CONTRACTOR. FIELD VERIFY ROUTING PRIOR TO BID AND FABRICATION.
- SUPPLY AIR DUCT DOWN FROM UNIT. TRANSITION AS REQUIRED TO DUCT SIZE SHOWN ON PLAN. ROUTE DUCTWORK TO HOOD(S) SUPPLY AIR OPENING AND TRANSITION AS REQUIRED. BESIDES HOOD BALANCING DAMPER, PROVIDE ADDITIONAL AIR BALANCING DAMPER IN THE SUPPLY AIR DUCT THAT IS ACCESSIBLE FOR AIR BALANCE CONTRACTOR. FIELD VERIFY ROUTING PRIOR TO BID AND FABRICATION.
- INTERLOCK EXHAUST FAN KEF-4 WITH WAREWASHER. WHEN WAREWASHER DOOR IS CLOSED AND WASHING CYCLE BEGINS THEN START THE EXH. FAN. THE FAN SHALL RUN CONTINUOUSLY WHILE WASHING DISHES. WHEN THE WAREWASHER DOOR IS OPENED AT THE END OF THE WASH CYCLE CONTINUE TO OPERATE THE EXHAUST FAN FOR TWO ADDITIONAL MINUTES (ADJUSTABLE DELAY) TO CAPTURE STEAM AND HEAT. AT THE END OF THE DELAY, DE-ENERGIZE THE EXH. FAN.
- DISHWASHER EXHAUST DUCTWORK SHALL BE FABRICATE IN ACCORDANCE WITH SHOWN LOW PRESSURE DUCT CONSTRUCTION STANDARDS. FABRICATED EXPOSED AND CONCEALED DUCTWORK OF STAINLESS STEEL OR ALUMINUM WITH CONTINUOUS EXTERNALLY WELDED JOINTS AND SEAMS. NO CARBON A ALLOWED. PITCH HORIZONTAL DUCTS TO DRAIN CONDENSED VAPOR BACK TO THE EQUIPMENT.
- PROVIDE GREASE DUCT CLEAN OUTS IN ALL CHANGE OF DIRECTION AS REQUIRED BY LOCAL CODE. TYPICAL ALL GREASE DUCT. ALL CLEANOUTS MUST BE ACCESSIBLE. FIELD COORDINATE PRIOR TO CONSTRUCTION.
- IMC 2018 506.3.7- PREVENTION OF GREASE ACCUMULATION IN GREASE DUCTS. DUCT SYSTEM SERVING A TYPE I HOOD SHALL BE CONSTRUCTED AND INSTALLED SO THAT GREASE CANNOT COLLECT IN ANY PORTION THEREOF. AN THE SYSTEM SHALL SLOPE NOT LESS THAN ONE-FORTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2 PERCENT SLOPE) TOWARD THE HOOD OR TOWARD APPROVED GREASE RESERVOIR, WHERE HORIZONTAL DUCTS EXCEED 25 FEET IN LENGTH THE SLOPE SHALL BE NOT LESS THAN ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8.3% SLOPE)
- DUCT-TO-EXHAUST FAN CONNECTIONS SHALL BE FLANGED AND GASKETED AND BOLTED TO THE INLET OF THE FAN FOR SIDE-INLET UTILITY FANS; AND SHALL BE FLANGED, GASKETED AND BOLTED TO THE INLET AND OUTLET OF THE FAN FOR IN-LINE FANS. GASKET AND SEALING MATERIALS SHALL BE RATED FOR CONTINUOUS DUTY AT A TEMPERATURE OF NOT LESS THAN 1500°F (816° C).
- A MANUAL ACTUATION DEVICE (PULL STATION) SHALL BE LOCATED AT OR NEAR A MEANS OF EGRESS FROM THE COOKING AREA A MINIMUM OF 10 FEET (3050MM) AND A MAXIMUM OF 20 FEET (6096 MM) FROM THE KITCHEN EXHAUST SYSTEM. THE MANUAL ACTUATION DEVICE SHALL BE INSTALLED NOT MORE THAN 48 INCHES (1200 MM) NOR LESS THAN 42 INCHES (1067 MM) ABOVE THE FLOOR AND SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED. THE MANUAL ACTUATION SHALL REQUIRE A MAXIMUM FORCE OF 40 POUNDS (178 N) AND A MAXIMUM MOVEMENT OF 14 INCHES (356 MM) TO ACTUATE THE FIRE SUPPRESSION SYSTEM.
- FIRE ALARM CONTRACTOR TO PROVIDE DUCT MOUNTED SMOKE DETECTORS AND WALL REMOTE TEST STATION FOR THE SUPPLY AND RETURN DUCT AND ALL WIRING CONNECTIONS. THE DUCT SMOKE DETECTORS SHALL BE COMPATIBLE WITH THE FIRE ALARM SYSTEM. THE MECHANICAL CONTRACTOR SHALL IDENTIFY THE SMOKE DETECTORS AND REMOTE TEST STATION. FIRE ALARM CONTRACTOR SHALL CONNECT TO A FIRE ALARM SYSTEM. THE ACTIVATION OF THE DUCT SMOKE DETECTOR SHALL ACTIVATE AN AUDIBLE/VISUAL ALARM AT A CONSTANTLY ATTENDED LOCATION. MECHANICAL AND ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND MEETS ALL LOCAL AND STATE CODES. EXACT LOCATION OF REMOTE TEST STATION SHALL BE FIELD VERIFIED. REMOTE TEST IS NOT REQUIRED WHERE SMOKE DETECTORS CAN BE TESTED FROM THE FIRE ALARM PANEL.
- PROVIDE REMOTE TEST STATION FOR SMOKE DETECTORS WITH AUDIBLE AND VISUAL ALARM WITH KEYED RESET. MOUNT TEST STATION 48 INCHES AFF. MOUNT AUDIBLE AND VISUAL ALARM IN CONSTANTLY ATTENDED LOCATION. CONSTANTLY ATTENDED LOCATION IS NOT REQUIRED WHERE DUCT SMOKE DETECTOR ACTIVATES THE BUILDING'S ALARM SYSTEM.
- FURNISH AND INSTALL MANUFACTURER PROVIDED CONCENTRIC VENT FOR WATER HEATER. ROUTE VENT THROUGH WALL AS SHOWN. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND ALL APPLICABLE LOCAL AND STATE CODES. CONCENTRIC VENT SHALL BE LOCATED A MINIMUM OF 10' FROM ALL OUTDOOR INTAKES.

HVAC GENERAL PLAN NOTES

- ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE WITH CONNECTIONS IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE INTENT OF THE INSTALLATION WHILE THE SPECIFICATIONS AND EQUIPMENT LIST DENOTE THE TYPE AND TOP OF MATERIAL AND WORKMANSHIP TO BE USED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER AND/OR MORE COSTLY STANDARD WILL APPLY. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS REGARD ON BEHALF OF THE CONTRACTOR AFTER AWARD OF THE CONTRACT.
- PROVIDE VOLUME BALANCING DAMPER AT ALL NINETY-DEGREE DUCT TAKE-OFFS. THIS ALSO APPLIES TO TAKE-OFFS TO DIFFUSERS OR REGISTERS LOCATED DIRECTLY UNDER DUCTS.
- REFRIGERANT PIPE SIZING AND ROUTING DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL TAKE INTO ACCOUNT LENGTH OF RUN AND FIELD CONDITIONS WHEN SIZING THE PIPING TO ENSURE ALL LOSSES ARE ACCOUNTED FOR.
- INSTALL FLEX FULLY EXTENDED. DO NOT INSTALL IN THE COMPRESSED STATE OR USE EXCESS LENGTHS (USING MORE THAN NECESSARY TO GET FROM POINT A TO POINT B, AND LEAVING THE EXCESS CURLING AROUND). THIS WILL NOTICEABLY INCREASE FRICTION LOSSES. AVOID BENDING DUCTS ACROSS SHARP CORNERS OR INCIDENTAL CONTACT WITH METAL FIXTURES PIPES OR CONDUITS. RADIUS OF CENTERLINE SHALL BE NO LESS THAN ONE DUCT DIAMETER. FLEX DUCT SUPPORT AT NO MORE THAN FOUR FOOT INTERVALS AND CLARIFIES THAT CONNECTIONS TO A MAIN DUCT OR AIR OUTLET ARE SUPPORTS. HANGER OR SADDLE MATERIAL IN CONTACT WITH THE FLEXIBLE DUCT SHALL BE OF SUFFICIENT WIDTH TO PREVENT ANY RESTRICTION OF THE INTERNAL DIAMETER OF THE DUCT WHEN THE WEIGHT OF THE SUPPORTED SECTION RESTS ON THE HANGER OR SADDLE MATERIAL.
- MECHANICAL CONTRACTOR TO FIELD VERIFY WITH STRUCTURE ALL DUCT ROUTING PRIOR TO FABRICATION.
- MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL ROOF TOP EQUIPMENT PRIOR TO CUTTING ROOF OPENINGS. ALL OPENING SHOULD FALL BETWEEN JOIST.
- PROVIDE ACCESS TO ALL COMPONENTS REQUIRING PERIODIC INSPECTION AND SERVICE THAT ARE LOCATED WITHIN THE SPACE OR REQUIRE ACCESS THROUGH THE SPACE. LABEL ACCESS DOORS AND PANELS OR CEILING TILES UTILIZED FOR ACCESS WITH THE NAME OF THE HIDDEN EQUIPMENT(S). DEMONSTRATE ACCESS TO ALL HIDDEN COMPONENTS FOR THE FIELD REPRESENTATIVE PRIOR TO OCCUPANCY.
- IDENTIFY ALL ROOF MOUNTED EQUIPMENT WITH STORE NAME AND UNIT NUMBER USING PERMANENT WEATHER PROOF 2" HIGH DIE-CUT LETTERS.
- WIRE SMOKE DETECTORS TO BUILDING FIRE ALARM CONTROL PANEL, IF EXISTING, OR ELSE FURNISH AND INSTALL A COMPATIBLE REMOTE AUDIBLE/VISUAL ALARM DEVICE. FIELD VERIFY EXACT REQUIREMENTS. PER SIGNAL FROM SMOKE DETECTOR, UNIT SHALL SHUT DOWN AND ALL DAMPER SHALL CLOSE. CONTRACTOR SHALL TEXT SYSTEM PRIOR TO TURNOVER, TO INSURE PROPER FUNCTION.
- PROVIDE ALL NECESSARY TRANSITIONS AND OFFSETS IN SUPPLY AND RETURN AIR DUCTWORK TO AVOID EXISTING STRUCTURE, WATER, GAS, SPRINKLER PIPING, OTHER DUCTWORK, OTHER TRADES, ETC. DUCTWORK SHALL BE INSTALLED AS HIGH AS CONDITIONS WILL ALLOW.
- WHERE CEILING SPACE IS NOT SUFFICIENT TO PERMIT TOP CONNECTION TO CEILING DIFFUSER WITH PROPER BEND RADIUS FOR FLEXIBLE DUCTS, CONTRACTOR SHALL FABRICATE AND/OR PROVIDE AN ADAPTER BOX FOR DIFFUSER TO PERMIT SIDE CONNECTION TO FLEXIBLE DUCT.
- AN INDEPENDENT TEST AND BALANCE REPORT FOR THE COOKING AREA IS REQUIRED BEFORE FINAL APPROVAL OF THE VENTILATION SYSTEM PER 507.6 OF THE 2018 IMC.
- CAPTURE AND CONTAINMENT TEST WILL ALSO BE REQUIRED BEFORE FINAL APPROVAL OF THE VENTILATION SYSTEM PER 507.6.1 OF THE 2018 IMC. PERFORM THIS TEST UNDER WITNESS OF THE BUILDING OFFICIAL. THIS WILL BE A VISUAL VERIFICATION OF THE PATH OF SMOKE AND VAPORS WITH THE COOKING EQUIPMENT UNDER THE HOOD AT OPERATING TEMPERATURE.
- GREASE DUCT TEST SHALL BE PERFORMED WITH THE PRESENCE OF A CODE OFFICIAL BEFORE APPROVAL OF GREASE DUCT SYSTEM. A LIGHT OR AN APPROVED EQUIVALENT TEST METHOD SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE AIR TIGHT, SECTION 506.3.2.5 PER 2018 IMC.
- DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. DIMENSIONS MAY BE DECREASED TO ACCOMMODATE CONSTRUCTION AS LONG AS EFFECTIVE CROSS-SECTIONAL AREA IS MAINTAINED. DUCT TRANSITIONS SHALL BE CONSTRUCTED WITH A SLOPE OF 1" TO 4". ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE REVIEWED BY ENGINEER DURING THE SHOP DRAWING PROCESS.
- ALL DUCTWORK SHALL HAVE AN APPROVED CLOSURE SYSTEM BASED ON LOCAL CODE REQUIREMENTS. ALL SEAMS SHALL BE PRESSURE TESTED BASED ON DUCT PRESSURE RATING.
- GUARANTEE ALL HVAC WORK AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM DATE OF STORE OPENING. DURING THE ONE YEAR PERIOD, SERVICE SHALL BE PROVIDED TWENTY-FOUR HOURS PER DAY, SEVEN DAYS PER WEEK AND SHALL INCLUDE ALL SERVICE CALLS, PARTS, LABOR AND MAINTENANCE AT NO ADDITIONAL COST TO THE OWNER OR TENANT. ALL FILTERS SHALL BE CHANGED ONCE PER MONTH. IN ADDITION, ALL COMPRESSORS SHALL CARRY A FIVE YEAR WARRANTY FROM THE MANUFACTURER.

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Drawing
MECHANICAL FLOOR PLAN

M1.0