

page 22 - Hood Exhaust Drawing

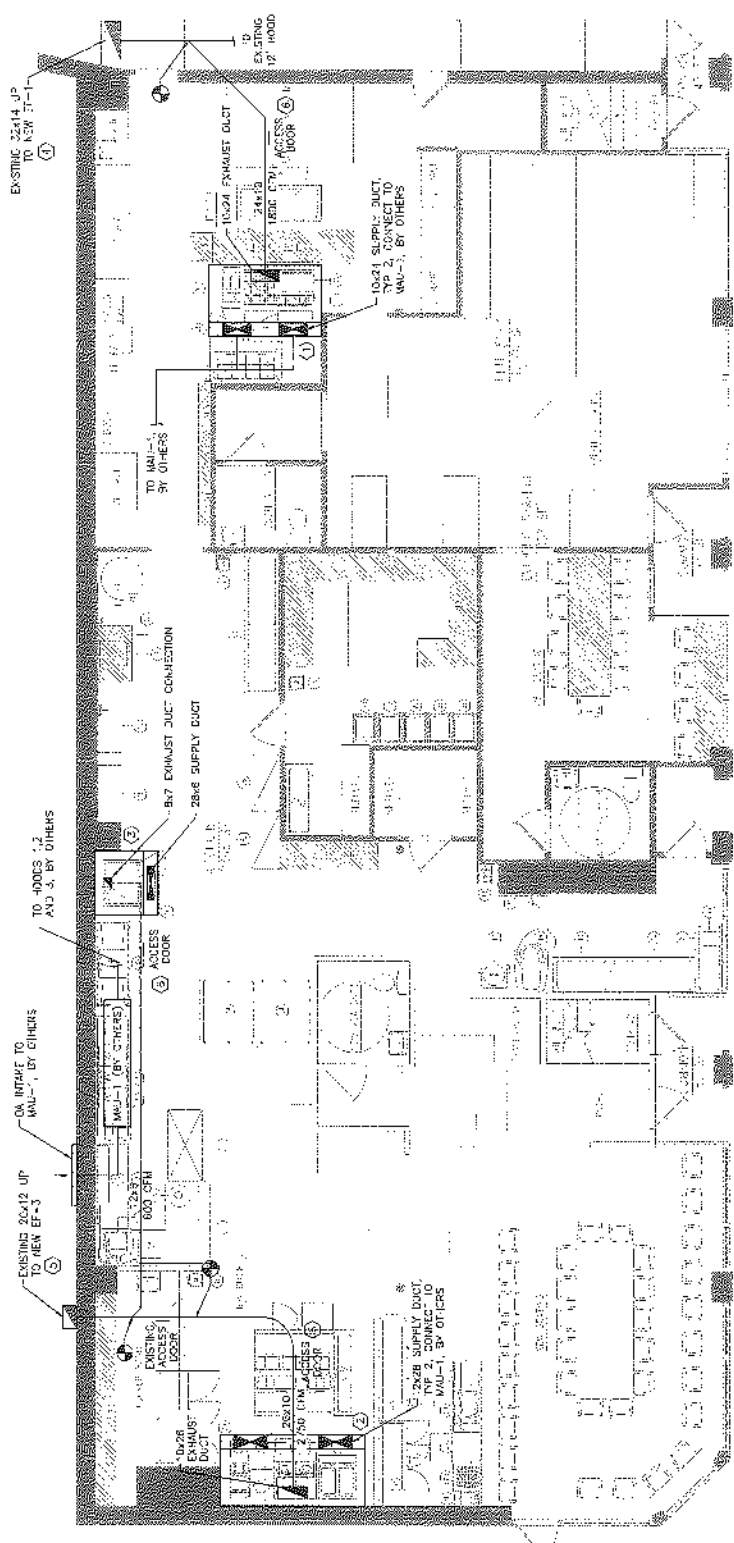


NOTES:

1. CONSTRUCTION AND INSTALLATION OF KITCHEN HOOD EXHAUST SYSTEM SHALL CONFORM TO ALL APPLICABLE INC. 2009 AND NFA 95 CODES FOR EXHAUST SYSTEMS.
2. ALL METALS SHALL BE MINIMUM 16 GA CARBEN STEEL WITH CONTINUOUS LIQUID TIGHT WELDED JOINTS MADE ON EXTERIOR OF DUCT.
3. JOINTS SHALL BE MADE BY WELDING OR MECHANICAL MEANS. ALL WELDS SHALL BE FULL PENETRATION WELDS. WELDS SHALL BE WELDED TO THE STRUCTURE. BOLTS, SCREWS, RIVETS AND UNUSUAL MECHANICAL FASTENERS SHALL NOT BE USED.
4. PRIOR TO USE OF COMPONENTS OF ANY SECTION OF THE DUCT SYSTEM A LEAK TEST SHALL BE PERFORMED. A MINIMUM 100 WFT LIGHT BLUE AIR LEAK TEST SHALL BE PERFORMED. ALL LEAKS SHALL BE VISUALLY INSPECTED FOR LEAKS.
5. ALL DUCT SHALL BE INSULATED WITH 3/4" RIGID BARRIER DUCT WRAP. BARRIER SHALL BE EQUAL TO THE BARRIER DUCT WRAP. BARRIER SHALL BE STAPLED AT A MINIMUM 24" TOWARDS THE HOOD.
6. HOODS, EXHAUST SYSTEMS, EXHAUST SYSTEMS SHALL BE INSTALLED TO EXHAUST OUTSIDE THE BUILDING. EXHAUST SYSTEMS SHALL BE INSTALLED TO EXHAUST OUTSIDE THE BUILDING OR WITH OTHER MEANS OF STEAM OR SMOKE EXHAUST SYSTEMS. EXHAUST SYSTEMS SHALL BE INSTALLED TO EXHAUST OUTSIDE THE BUILDING OR WITH OTHER MEANS OF STEAM OR SMOKE EXHAUST SYSTEMS.
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SEED NOTES:

1. CAPTURE RATE 5424 N-2, 8 FOOT EXHAUST HOOD WITH SS Baffle Filters, Balancing Damper, 3 inch RZR Standoff for zero clearance to combustibles, and UL 710 LISTED, BALANCE HOOD DUCT FLOW TO 1850 CFM
2. CAPTURE RATE 5424 N-2, 10 FOOT EXHAUST HOOD WITH SS Baffle Filters, Balancing Damper, 3 inch RZR Standoff for zero clearance to combustibles, and UL 710 LISTED, BALANCE HOOD DUCT FLOW TO 2,750 CFM
3. CAPTURE RATE 5424 N-2, 4 2000 EXHAUST HOOD WITH SS Baffle Filters, Balancing Damper, 3 inch RZR Standoff for zero clearance to combustibles, and UL 710 LISTED, BALANCE HOOD DUCT FLOW TO 800 CFM
4. REPLACE EXISTING PAN WITH NEW 16" x 16" PAN WITH 1/2" DEPTH. CAPTURE RATE 5424 N-2, 8 FOOT EXHAUST HOOD WITH SS Baffle Filters, Balancing Damper, 3 inch RZR Standoff for zero clearance to combustibles, and UL 710 LISTED, BALANCE HOOD DUCT FLOW TO 1850 CFM
5. REPLACE EXISTING PAN WITH NEW 16" x 16" PAN WITH 1/2" DEPTH. CAPTURE RATE 5424 N-2, 8 FOOT EXHAUST HOOD WITH SS Baffle Filters, Balancing Damper, 3 inch RZR Standoff for zero clearance to combustibles, and UL 710 LISTED, BALANCE HOOD DUCT FLOW TO 1850 CFM
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8. REPLACE EXISTING PAN WITH NEW 16" x 16" PAN WITH 1/2" DEPTH. CAPTURE RATE 5424 N-2, 8 FOOT EXHAUST HOOD WITH SS Baffle Filters, Balancing Damper, 3 inch RZR Standoff for zero clearance to combustibles, and UL 710 LISTED, BALANCE HOOD DUCT FLOW TO 1850 CFM
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MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

DESIGN VALUES

- AIRFLOW PER NFA 96-2008 52.1.1 MINIMUM AIR VELOCITY THROUGH AIR DUCT SHALL BE 500 FT/MIN.
 - DUCT FLOW = 1725 (13.5 SF) x 500 CFM/0.5 FT = 1,725 CFM
 - ESTIMATED STATIC PRESSURE LOSS = 1.87 WC
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- HOOD CAPACITY (PER INC 307.1, UL710 HOODS EXCEPT FROM 307.1.3 MINIMUM CAPACITIES):
 1. LOW MEDIUM DUTY, 275 CFM/FT. SERVICES KITCHEN, WORK CENTER
 2. MEDIUM DUTY, 160 CFM/FT. SERVICES COMBI CVN.
 3. 4 FT. LIGHT DUTY, 160 CFM/FT. SERVICES COMBI CVN.

BUILDING AIRFLOWS

UNIT	SERVICES	EXHAUST	OUTSIDE AIR
EF-1	KITCHEN, EXH	5,000	
EF-2	KITCHEN, EXH	3,350	
EF-3	KITCHEN, EXH	2,750	
EF-4	KITCHEN, EXH	3,200	
EXISTING TAU	HUODS*	8,750	8,750
TOTALS		13,750	8,750



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