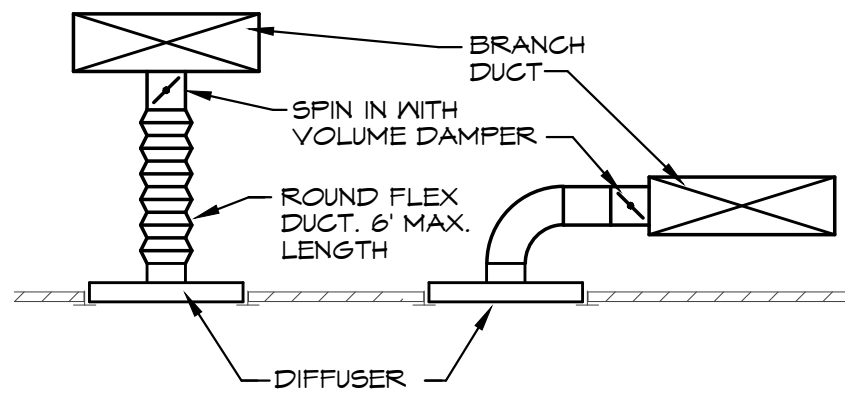


MECHANICAL PLAN NOTES:

- SUPPORT UNIT FROM STRUCTURE AND PROVIDE VIBRATION ISOLATION AS REQUIRED BY THE MANUFACTURER. PROVIDE ADDITIONAL SUPPORT STEEL AS REQUIRED.
- ROUTE 8"Ø EXHAUST DUCT UP THROUGH ROOF TO WEATHER HEAD AS REQUIRED. SEAL PENETRATION WEATHER TIGHT.
- SUPPORT FAN FROM STRUCTURE AS REQUIRED.
- MAINTAIN A MINIMUM OF 10' CLEARANCE BETWEEN O.A. INTAKES AND FLUES, EXHAUSTS, PLUMBING VENTS, ETC.
- ROUTE 8"Ø SCHEDULE 40 CPVC FLUE & COMBUSTION AIR INTAKE FOR WATER HEATER UP THROUGH ROOF TO MANUFACTURE'S CONCENTRIC VENT TERMINATION KIT AS REQUIRED. OFFSET AS REQUIRED TO MAINTAIN 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATIONS WEATHER TIGHT.
- ROUTE 8"Ø SCHEDULE 40 CPVC FLUE & COMBUSTION AIR INTAKE FOR FURNACE UP THROUGH ROOF TO MANUFACTURE'S CONCENTRIC VENT TERMINATION KIT AS REQUIRED. OFFSET AS REQUIRED TO MAINTAIN 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATIONS WEATHER TIGHT.
- CONNECT 20"x20" OUTDOOR AIR DUCT TO ROOF INTAKE VENTILATOR AND ROUTE DOWN AND CONNECT TO ECONOMIZER BOX AS REQUIRED.
- REFRIGERANT PIPING THROUGH EXTERIOR WALL AT 18" ABOVE GRADE. SEAL WALL PENETRATION WEATHERTIGHT. ROUTE PIPE UP INSIDE WALL TO AS HIGH AS POSSIBLE AND ROUTE TO UNITS.
- CONNECT REFRIGERANT PIPING TO CONDENSING UNIT & COIL AS REQUIRED BY THE MANUFACTURER. PROVIDE AND INSTALL REFRIGERANT PIPING FOR CONDENSING UNIT SIZED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE PREFABRICATED PAD FOR CONDENSING UNITS.
- ROUTE 8"Ø EXHAUST DUCT AND CONNECT TO KEF-1 LOCATED ON ROOF AS REQUIRED. VERIFY 10'-0" CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- PROVIDE WATERPROOF GALVANIZED SHEET METAL DRAIN PAN UNDER FURNACE & EVAPORATOR COIL. REFER TO PLUMBING PLANS FOR CONDENSATE AND FLUE DRAIN PIPING.
- SUPPORT KITCHEN TYPE II HOOD (SUPPLIED BY OTHERS) FROM STRUCTURE AS REQUIRED. TRANSITION AND CONNECT 8"Ø EXHAUST DUCT TO HOOD CONNECTION AS REQUIRED. NO COMBUSTIBLES TO BE LOCATED WITHIN 18" OF HOOD.
- REFER TO ARCHITECTURAL DRAWINGS FOR KITCHEN EXHAUST HOOD (KEH-1) AND KITCHEN EXHAUST FAN (KEF-1) SPECIFICATIONS AND DETAILS.

MECHANICAL GENERAL NOTES:

- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
- THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE MECHANICAL SYSTEMS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS.
- INSTALL ALL DUCT, PIPE, ETC. AS HIGH AS POSSIBLE.
- DUCT SIZES SHOWN ARE ACTUAL SHEET METAL SIZES AND INCLUDE AN ALLOWANCE FOR DUCT LINER WHERE APPLICABLE.
- PROVIDE FLEXIBLE CONNECTION BETWEEN DUCTWORK AND EXHAUST FANS AND OTHER MOTORIZED EQUIPMENT.
- NO DUCT SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.



DIFFUSER DETAIL
SCALE: NONE

MECHANICAL SYMBOLS

- NEW SUPPLY DIFFUSER
- NEW RETURN AIR GRILLE
- CEILING EXHAUST FAN
- THERMOSTAT @ 48" A.F.F.
- NEW DUCTWORK
- SIZE OF RECTANGULAR DUCT
- SIZE OF ROUND DUCT
- MANUAL VOLUME DAMPER
- FLEXIBLE DUCTWORK
- FLEXIBLE CONNECTION TO FAN
- FLOOR PLAN NOTE DESIGNATION
- S.A. SUPPLY AIR
- R.A. RETURN AIR
- EXH. EXHAUST AIR
- TRANSITION IN DUCT SIZE

DIFFUSER SCHEDULE

MARK	MFGR	MODEL	NECK SIZE	FACE SIZE	FINISH	REMARKS
SD-1	TITUS	PAS/3	10"Ø	24"x24"	WHITE	-
SD-2		PAS/1	6"Ø	12"x12"		IN OB DAMP IN NECK
RG-1		SOFF/3	22"x22"	24"x24"		FILTERED RETURN

EXHAUST FAN SCHEDULE

MARK	MFGR	MODEL	CFM	EXTERNAL STATIC P. IN. WG.	RPM	ELECTRICAL VOLT/Ø/HZ HP	FAN TYPE	REMARKS
EF-1	COOK	GC120	75	0.125	1200	120/1/60 1/10	CEILING	TOILET
EF-2								

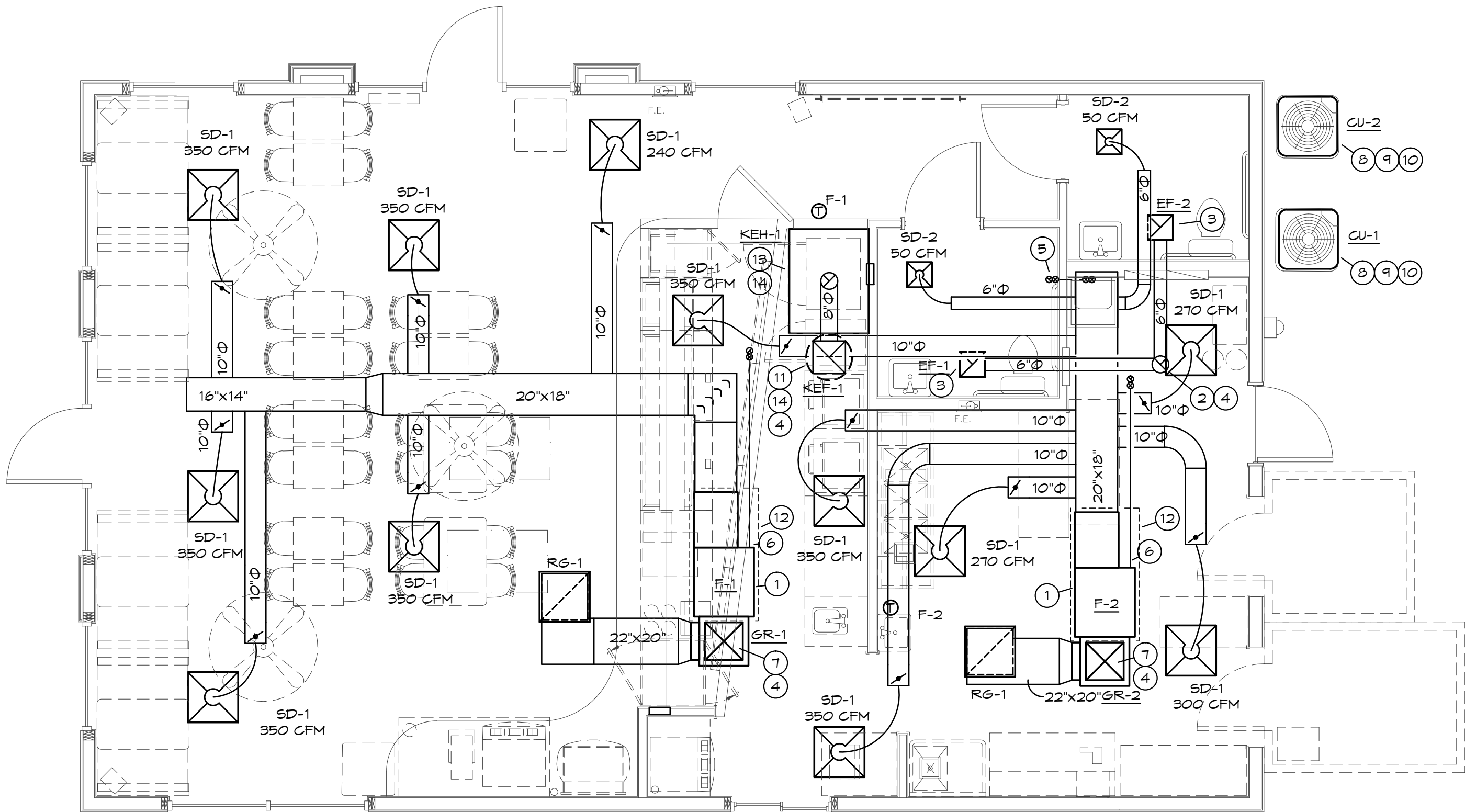
- NOTES: 1. PROVIDE CEILING GRILLE, INTEGRAL BACK DRAFT DAMPER, VARI-SPEED CONTROLLER (NEAR FAN AND ABOVE CEILING), NON-FUSED DISCONNECT, AND WEATHER HEAD FOR ALL UNITS.
2. FANS SHALL NOT EXCEED SCHEDULED RPM.

OUTDOOR AIR CALCULATIONS

UNIT	CLASS	SQ. FT.	PEOPLE/ SQ. FT.	NO. FIX	CFM/ SQ. FT.	CFM/ PERSON	CFM
F-1/2	DINING	485	70 / 1000	-	-	20	679
	STORAGE	130	-	-	0.15	-	20
	KITCHEN	390	20 / 1000	-	-	15	117
	CORRIDOR	93	-	-	0.05	-	5
TOTAL							821

AIR BALANCE SCHEDULE:

SUPPLY AIR UNIT	OUTSIDE AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	SUPPLY AIRFLOW (CFM)	OA/SA %	EXHAUST AIR UNIT	EXHAUST AIRFLOW (CFM)	REMARKS
F-1	415	1574	1990	20.8%	KEF-1	521	
F-2	415	1574	1990	20.8%			
					EF-1	75	
					EF-2	75	
TOTAL		830	3148	3980	20.8%	671	
RESULTING BUILDING PRESSURIZATION						159 CFM	



CONDENSING UNIT SCHEDULE

MARK	MFGR	MODEL NO.	COOLING			ELECTRICAL			EVAP. COIL MODEL NO.	REMARKS
			TOTAL BTUH	AMB. DB/WB	EVAP. EAT DB/WB	VOLT/Ø/HZ	MIN. MCA (AMPS)	MIN. MOCP (AMPS)		
CU-1	LENNOX	14ACX060	60,000	95	80/67	240/1/60	34.6	60	CH33-60D	
CU-2										

- NOTES: 1. PROVIDE TIME DELAY ON COMPRESSOR RE-START, CRANKCASE HEATER, AND COMPRESSOR LOCK-OUT WITH AMBIENT BELOW 45 °F.
PROVIDE INDOOR COIL WITH THERMAL EXPANSION VALVE (TXV) FOR ALL UNITS.

FURNACE SCHEDULE

MARK	MFGR	MODEL NO.	CFM	EXT. STATIC P. IN. WG.	HEATING (GAS)		ELECTRICAL		OUTSIDE AIR (CFM)	REMARKS
					BTUH INPUT	BTUH OUTPUT	VOLT/Ø/HZ	HP		
F-1	LENNOX	ML193UH135P60D	1,990	0.8	132,000	124,000	115/1/60	1	415	
F-2										

- NOTES: 1. PROVIDE GALVANIZED WATERTIGHT DRAIN PAN AND CONDENSATE FLOAT SWITCH TO DE-ENERGIZE THE FURNACE IF THE DRAIN PAN FILLS WITH WATER.
2. PROVIDE EACH UNIT WITH 7-DAY PROGRAMMABLE HEAT/COOL/AUTO CHANGEOVER THERMOSTAT.
3. CONDENSING UNITS, COOLING COILS, AND FURNACES SHALL ALL BE OF THE SAME MANUFACTURER.
4. EXTERNAL STATIC PRESSURE LISTED REPRESENTS STATIC PRESSURE REQUIRED FOR DUCTWORK AND DIFFUSERS OUTSIDE THE HVAC UNIT COMPLETELY INDEPENDENT OF ANY PRESSURE DROP THROUGH THE HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO FILTERS AND COILS.
5. PROVIDE 'MIGOMETL MB-6P' ECONOMIZER WITH SOLID STATE DIFFERENTIAL ENTHALPY CONTROL, ELECTRONIC DISCHARGE AIR SENSOR, 24V 3 POSITION SPRING RETURN DAMPER MOTOR WITH ADJUSTABLE MINIMUM POSITION SWITCH, WIRING HARNESS KIT WITH RELAY AND TERMINAL STRIP, 7 DAY PROGRAMMABLE THERMOSTAT WITH ECONOMIZER OUTPUT, DUCT MOUNT TEMPERATURE SENSOR, AND OUTDOOR TEMPERATURE SENSOR FOR F-2.

GRAVITY INTAKE VENTILATOR SCHEDULE

MARK	MFGR	MODEL	THROAT SIZE	CURB GAP SIZE	REMARKS
GR-1	COOK	20PR	20-1/2"Ø	32" SQUARE	INTAKE
GR-2					INTAKE

- NOTES: 1. PROVIDE ROOF CURB AND BIRDSCREEN.

OKLAHOMA PE COA #CA1900PE

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M1