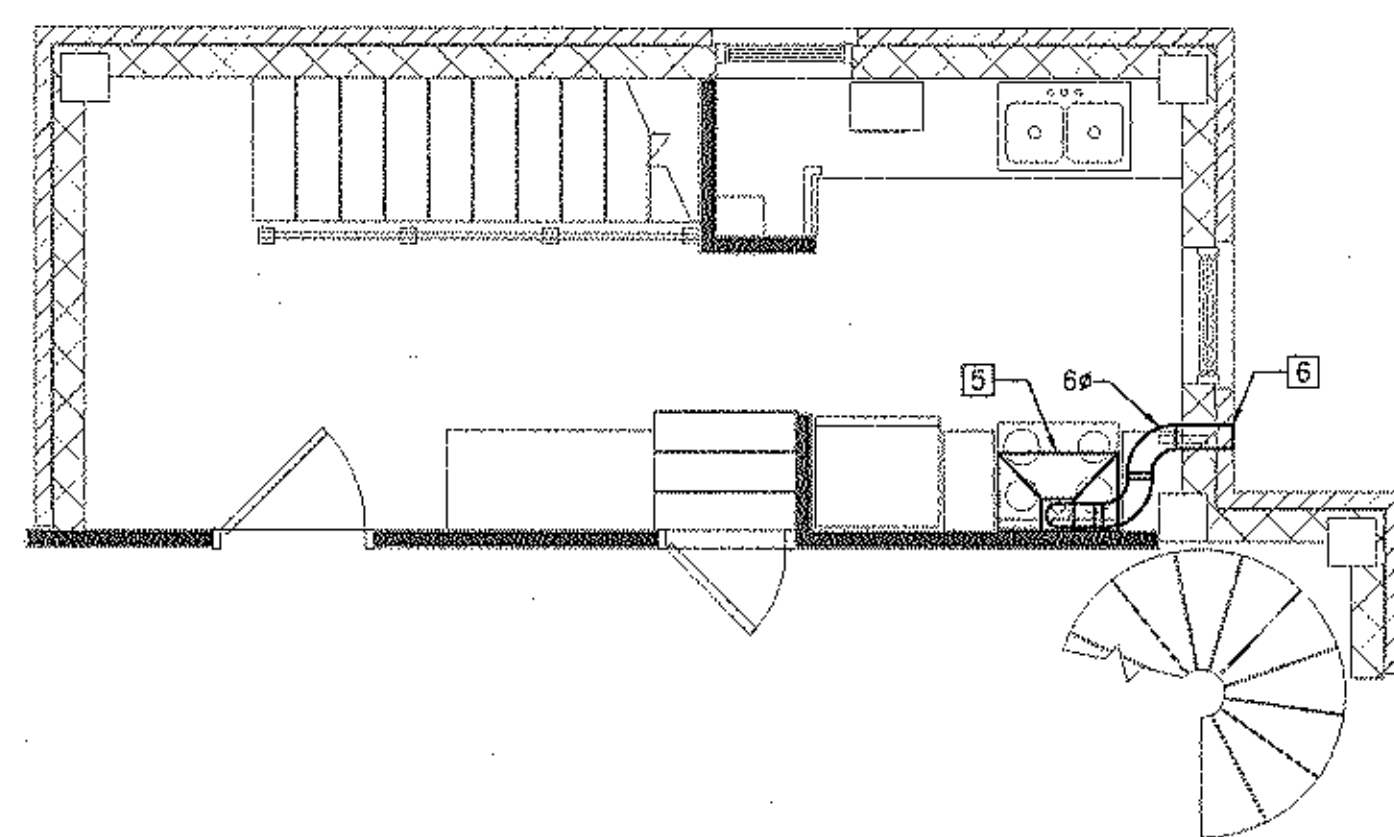


**1 FIRST FLOOR HVAC DEMOLITION FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
TRUE NORTH



**2 FIRST FLOOR HVAC FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
TRUE NORTH

- DEMOLITION KEYED NOTES:**
1. DEMO EXISTING STEAM RADIATOR AND ASSOCIATED PIPING TO BELOW THE FLOOR AND CAP. EXISTING STEAM PIPING MAY CONTAIN ASBESTOS INSULATION.
  2. REMOVE AND RELOCATE EXISTING STEAM RADIATOR AND ASSOCIATE PIPING TO NEW LOCATION. EXISTING STEAM PIPING MAY CONTAIN ASBESTOS INSULATION.

- KEYED NOTES:**
1. SIDEWALL MOUNTED EXHAUST FAN. SEE SCHEDULE.
  2. COMMERCIAL TYPE EXHAUST HOOD RATED FOR 450CFM, SEE SCHEDULE.
  3. WALL MOUNTED HOOD CONTROL PANEL.
  4. WALL MOUNTED ANSUL SYSTEM.
  5. RESIDENTIAL TYPE RANGE HOOD SIZED FOR 375 CFM MINIMUM.
  6. PROVIDE WALL CAP WITH BACKDRAFT DAMPER.
  7. PROVIDE AND INSTALL TITUS, MODEL TMS-AA, 24"x24" WITH 12" NECK, LAY-IN ALUMINUM, WITH OFF-WHITE FINISH OR EQUAL.
  8. TEMPERATURE SENSOR AND THERMOSTAT SHALL BE LOCATED A MINIMUM OF 2'-0" DOWNSTREAM OF THE ELECTRIC DUCT HEATER.
  9. EXHAUST DUCTWORK SHALL SLOPE 1/4" PER FOOT BACK TO HOOD.
  10. PROVIDE ACCESS DOOR IN THE SIDE OF EXHAUST DUCT.
  11. PROVIDE ACCESS DOOR IN VERTICAL SECTION OF DUCT AT 5'-0" ABOVE FIRST FLOOR.
  12. CENTER LINE OF FAN SHALL BE LOCATED 9'-0" ABOVE THE FIRST FLOOR.
  13. PROVIDE ACCESS AREA FOR ELECTRICAL MAINTENANCE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
  14. TOP OF DOUBLE WALL HOOD EXHAUST DUCT SHALL BE LOCATED WITH ZERO CLEARANCE FROM THE EXISTING STEAM PIPING.
  15. RELOCATE EXISTING 1" PIPE TIGHT TO THE CEILING. EXISTING STEAM PIPING MAY CONTAIN ASBESTOS INSULATION.
  16. RELOCATED STEAM RADIATOR AND ASSOCIATED PIPING.

FAN SCHEDULE													
MARK	AREA SERVED	LOCATION	FAN DATA		AIR QUANTITY CFM	TOTAL STATIC PRESSURE IN. WTR.	WHEEL SIZE IN.	MAX SPEED RPM	WEIGHT LBS.	MOTOR			NOTES
			TYPE	DRIVE						HP	VOLTS	PHASE	
EF-1	HOOD EXHAUST	SIDEWALL	PRV	DIRECT	450	.75	11.75	1012	59	0.25	120	1	1,2,3,4
SF-1	SUPPLY FAN	INLINE	BI	DIRECT	450	.25	—	1600	90	0.167	120	1	5, 6

NOTES:

1. BASIS OF DESIGN IS CAPTIVEAIRE, MODEL DU3OHFA.
2. EXHAUST FAN TO HAVE WEATHERPROOF DISCONNECT, INTERNAL WIRING AND GREASE CLASSIFICATION TESTING.
3. PROVIDE FAN WITH GREASE COLLECTION BOX.
4. PROVIDE WALL MOUNT/STANDARD CURB AND HINGING KIT.
5. BASIS OF DESIGN IS LOREN COOK, MODEL 9050N120.
6. MOTOR SHALL BE HEAVY DUTY TYPE WITH PERMANENTLY LUBRICATED SEALED BEARINGS.

KITCHEN HOOD									
MARK	AREA SERVED	TYPE	LENGTH	MAX COOKING TEMP	TOTAL EXHAUST CFM	HOOD CONSTRUCTION	FIRE SYSTEM		NOTES
							TYPE	SIZE	
EH/1	KITCHEN RANGE	WALL MOUNT	3'-0"	450F	450	430 SS	ANSUL	1.5	--

**NOTES:**

1. BASIS OF DESIGN OF HOOD IS CAPTIVEAIRE, MODEL 3044 BD-2.
2. BASIS OF DESIGN FOR ANSUL FIRE SYSTEM IS MODEL 11010K1.
3. HOOD TO BE PROVIDED WITH STAINLESS STEEL Baffle FILTERS, AND PRE-PIPED FOR ANSUL SYSTEM.
4. HOOD TO BE PROVIDED WITH RIGHT AND LEFT QUARTER END PANELS OF 430 SS.
5. ANSUL SYSTEM TO BE PROVIDED WITH AUTOMAN RELEASE AND REMOTE MANUAL PULL STATION.

LOUVER/DAMPER SCHEDULE				
MARK	CFM	OVERALL DIMENSION	FREE AREA (SQ. FT.)	REMARKS
LD-1	450	12"W X 24"H	0.67	1,2

**NOTES:**

1. BASIS OF DESIGN OF COMBINATION LOUVER/DAMPER WITH DRAINABLE BLADE IS GREENHECK, MODEL ECD-401.
2. OPTIONAL COMPONENTS, ELECTRIC ACTUATOR (BELMO), BIRD AND INSECT SCREEN, AND EXTENDED SILL.

ELECTRIC DUCT HEATER SCHEDULE						
MARK	KW	VOLTS/PHASE	AMPS	MOUNT	CONTROLS	REMARKS
HC-1	7.5	208/3	--	SLIP IN	SCR	1,2

**NOTES:**

1. BASIS OF DESIGN OF ELECTRIC DUCT HEATER IS INDECO, MODEL QUA.
2. OPTIONAL COMPONENTS, SCR CONTROLLER, SER INPUT 0-100C THERMOSTAT, CONTACTOR-MAGNETIC DISCONNECTING, MANUAL THERMAL OUTPUT, FAN RELAY 24V, DISCONNECT SWITCH-CONTROL CIRCUIT FAN RELAY, AUTOMATIC THERMAL OUTPUT, CONTROL CIRCUIT TRANSFORMER, TERMINAL BOX OVERHANG, AND DISCONNECT SWITCH-POWER.

SPLIT SYSTEM AIR CONDITIONER SCHEDULE									
UNIT DATA			INDOOR SECTION						
TAG	MANUFACTURE	MODEL	UNIT CONFIGURE	FAN		COOLING	ELECTRIC DATA		
				SUPPLY CFM	OA CFM		TOTAL MBH	VOLTS/PHASE	MCA
AC-1	DAIKIN	SLZ-KA12NA	CEILING MOUNT	320	--	12.0	208/1	1	
AC-2	DAIKIN	SLZ-KA12NA	CEILING MOUNT	320	--	12.0	208/1	1	

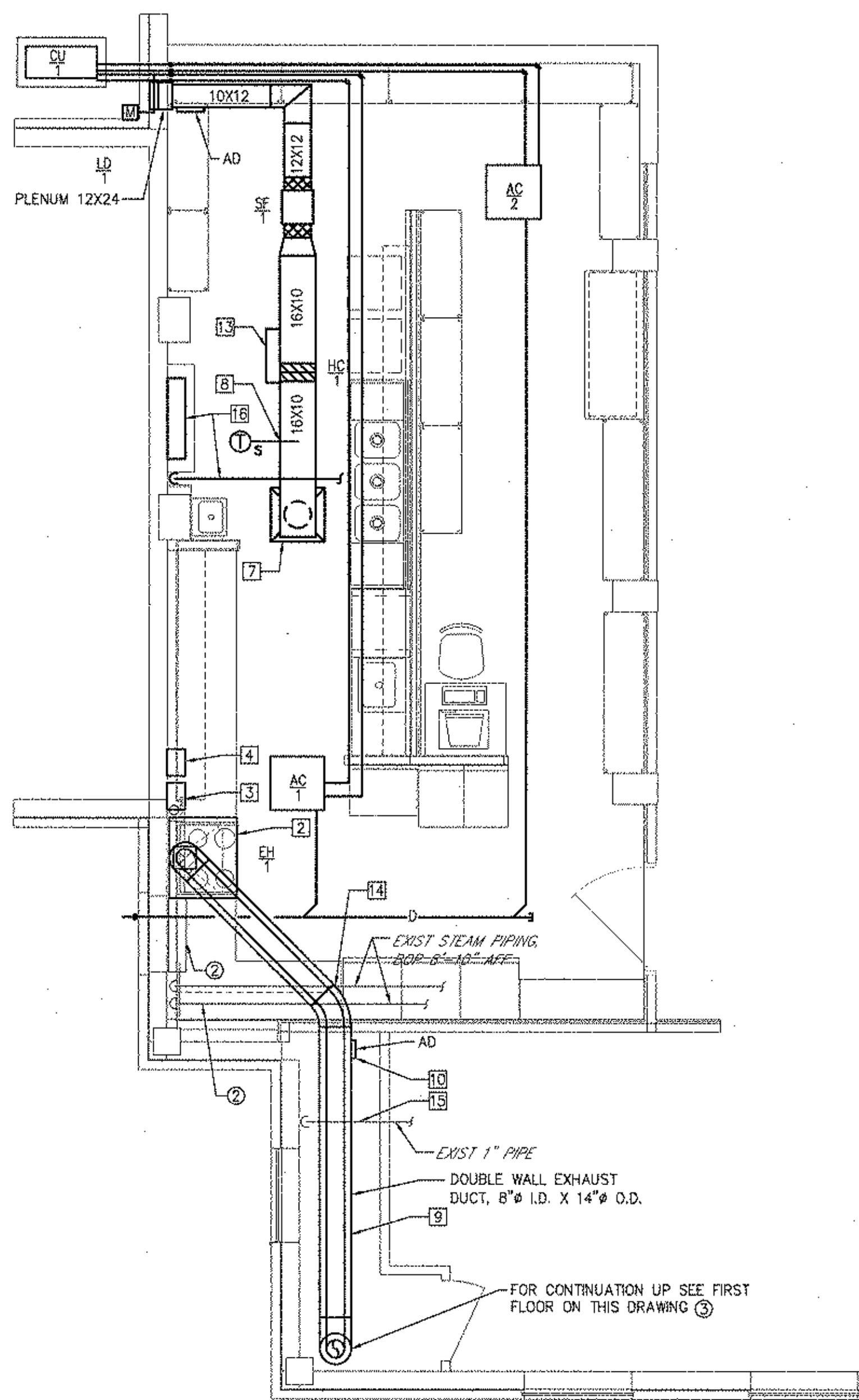
**NOTES:**

1. INSTALL PER MANUFACTURER'S RECOMMENDATION.
2. LOW AMBIENT CONTROL FOR COOLING.
3. MICROPROCESSOR CONTROLS.
4. INSTALL OUTDOOR UNIT WITH A CLEARANCE OF 8" FROM PAD TO UNIT.
5. DRAIN LINE SHALL BE INSTALLED WITH 1-1/4" SCHED 40 PVC.

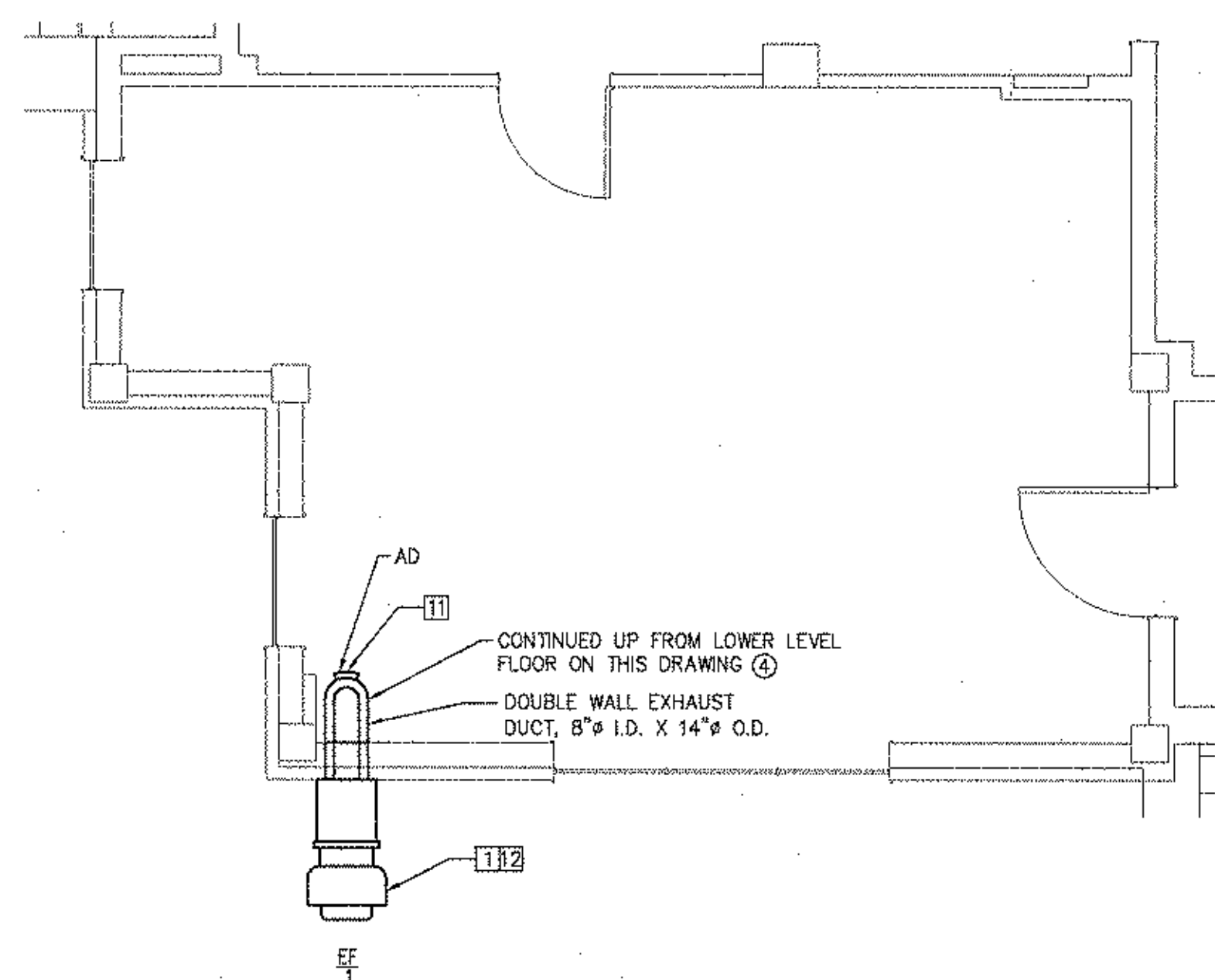
CONDENSING UNIT SCHEDULE									
CONDENSING UNIT									
TAG	MODEL	COOLING TOTAL MBH	EER	SEER	M.C.A.	VOLTAGE	REFRIGERANT		
CU-1	MITSUBISHI ELECTRIC MXZ-3B24NA-1	24.0	12.5	17.5	18	208-1φ	R-410A		

**NOTES:**

1. INSTALL PER MANUFACTURER RECOMMENDATIONS.
2. MOUNT CONDENSING UNIT ON 6" HIGH CONCRETE PAD.



**4 LOWER LEVEL HVAC FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
TRUE NORTH



**3 FIRST FLOOR HVAC FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
TRUE NORTH

### EXHAUST FAN

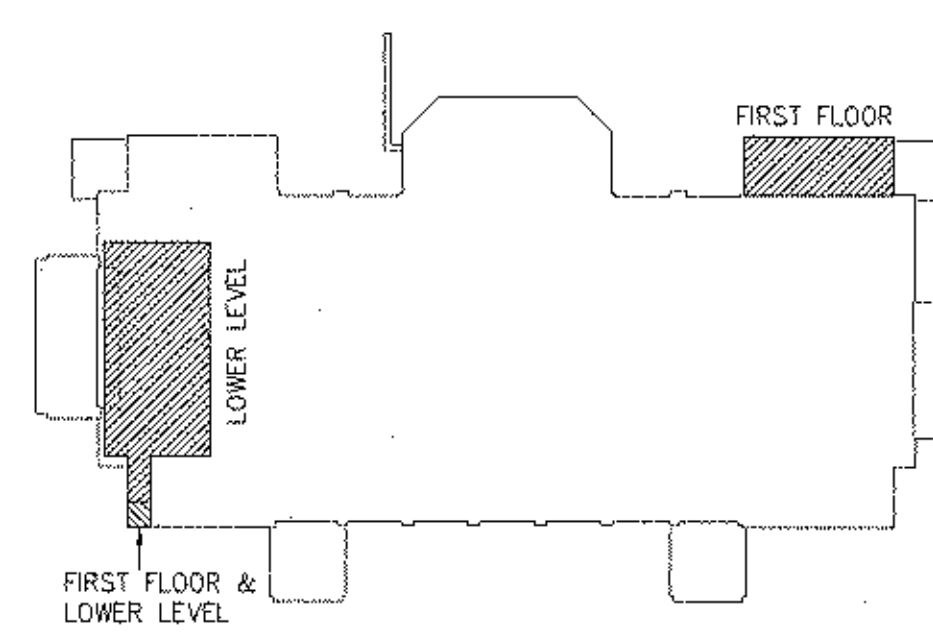
FANS SHALL BE TURNED ON AND OFF BY A WALL MOUNTED OPERATOR CONTROL PANEL AND ALSO BE CONTROLLED TO TURN ON WHEN DETECTING HEAT. EXHAUST FAN SHALL OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300' F UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM.

### KITCHEN HOOD



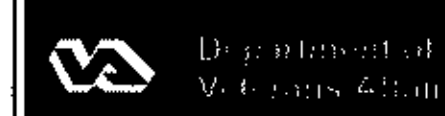
KITCHEN HOOD TO BE PROVIDED WITH A WALL MOUNTED ANSUL SYSTEM, PROVIDED BY THE HOOD MANUFACTURER. SEE SCHEDULE.

### MAKE-UP AIR

INTERLOCK LOUVER/DAMPER (LD-1) TO OPEN WHEN EXHAUST FAN (EF-1) IS ENGAGED AND SIMULTANEOUSLY ENERGIZE SUPPLY FAN (SF-1). ELECTRIC DUCT HEATER (HC-1) SHALL BE ENERGIZED WHEN SUPPLY FAN (SF-1) IS OPERATING AND THE DUCT THERMOSTAT INDICATES ADDITIONAL HEATING OF THE AIR STREAM.



**KEY PLAN**  
SCALE: NOT TO SCALE  
TRUE NORTH

<b>CONSULTANTS:</b>  <b>AJH DESIGN</b> 216 OAKWOOD AVENUE, ELMIRA HEIGHTS, NEW YORK 14903 P.H: (607) 737-4638 FAX: (607) 737-1277 AJH# 11-058		<b>ARCHITECT/ENGINEERS:</b>  <b>Larson Design Group</b> 1000 Commerce Park Drive • Suite 201 Williamsport, PA 17701 PHONE: 570.323.6603 TOLL FREE: 877.323.6603 FAX: 570.323.6902 • www.larsondesigngroup.com		<b>Drawing Title:</b> <b>HVAC PLANS</b> <b>Approved Project Director:</b> <b>CHRISTOPHER HALL</b>		<b>Project Title:</b> <b>KITCHEN RENOVATIONS</b> <b>Location:</b> <b>BUILDING #5 ROOM 100A + 5C</b> <b>Date:</b> 2-24-2012		<b>Project Number:</b> <b>6944-001</b> <b>Building Number:</b> <b>#5</b> <b>Drawing Number:</b> <b>5-MH1</b> Dwg. 1 of 1		<b>Office of Construction and Facilities Management</b>  Department of Veterans Affairs	
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