

FAN SCHEDULE														
MARK	AREA SERVED	LOCATION	FAN DATA				TOTAL STATIC PRESSURE IN. WTR.	WHEEL SIZE IN.	MAX SPEED RPM	WEIGHT LBS.	MOTOR			NOTES
			TYPE	DRIVE	AIR QUANTITY CFM	TYPE					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 DU30HFA.  
 2. EXHAUST FAN TO HAVE WEATHERPROOF DISCONNECT, INTERNAL WIRING AND GREASE CLASSIFICATION TESTING.  
 3. PROVIDE FAN WITH GREASE CONNECTION BOX.  
 4. PROVIDE WALL MOUNT/STANDARD CURB WITH HINGING KIT.  
 5. BASIS OF DESIGN IS LOREN COOK, MODEL 9050N12D.  
 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"	450°F	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 110110KT  
 3. HOOD TO BE PROVIDED WITH STAINLESS STEEL BAFFLE FILTERS, INTERIOR LIGHT 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.

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. SCR CONTROLLER, SER INPUT 0-100C THERMOSTAT, CONTACTOR-MAGNETIC DISCONNECTING, MANUAL THERMAL CUTOFF, FAN RELAY 24V, DISCONNECT SWITCH-CONTROL CIRCUIT FAN RELAY, AUTOMATIC THERMAL CUTOFF, CONTROL CIRCUIT TRANSFORMER, TERMINAL BOX OVERHANG, AND DISCONNECT SWITCH-POWER.

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 ECO-401.  
 2. ELECTRIC ACTUATOR (BELMO), BRD AND INSECT SCREEN, AND EXTENDED SILL.

### 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.

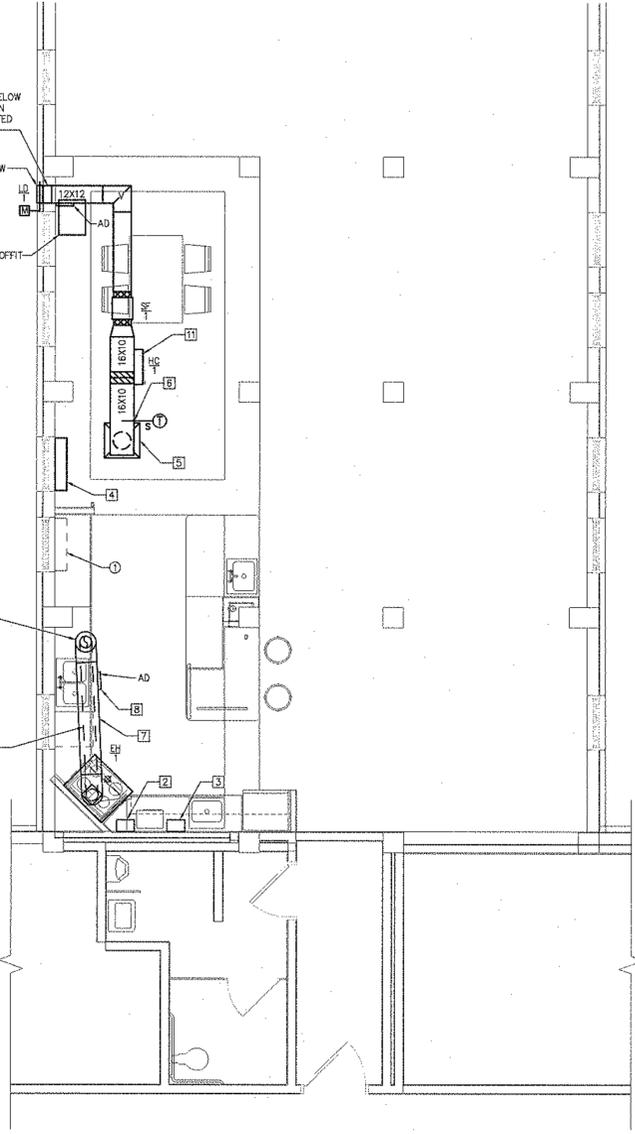
PLENUM IS LOCATED ABOVE AND BELOW THE CEILING TO PROVIDE TRANSITION FROM LOUVER TO DUCTWORK LOCATED ABOVE CEILING, SEAL AIRTIGHT.

LOUVER IS LOCATED BELOW THE CEILING.

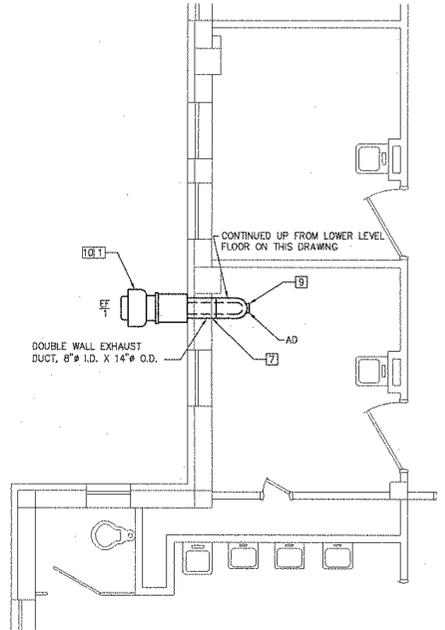
ACCESS DOOR IN SOFFIT

FOR CONTINUATION UP SEE FIRST FLOOR ON THIS DRAWING

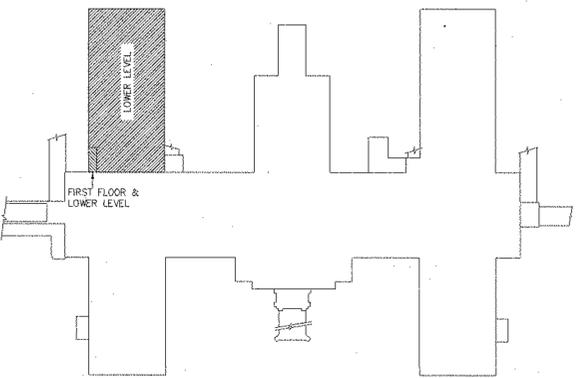
DOUBLE WALL EXHAUST DUCT, 8" I.D. X 14" O.D.



1 HVAC LOWER LEVEL PLAN  
SCALE: 1/4" = 1'-0"



1 HVAC FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"



KEY PLAN  
SCALE: NOT TO SCALE

DEMOLITION KEYED NOTES:  
 1. REMOVE AND RELOCATE EXISTING STEAM RADIATOR AND ASSOCIATED PIPING TO NEW LOCATION.

KEYED NOTES:  
 1. PROVIDE COMMERCIAL TYPE RANGE HOOD RATED FOR 450 CFM. SEE SCHEDULE.  
 2. WALL MOUNTED HOOD CONTROL PANEL.  
 3. WALL MOUNTED ANSUL SYSTEM.  
 4. RELOCATE EXISTING STEAM UNIT HEATER AND ASSOCIATED PIPING TO UNDER THE NEXT WINDOW TO THE RIGHT.  
 5. BASIS OF DESIGN OR EQUAL: PROVIDE AND INSTALL TITUS, MODEL TMS-1A, 24"X24", WITH 12" NECK, LAY-IN ALUMINUM, WITH OFF-WHITE FINISH AND BALANCE FOR 450 CFM.  
 6. TEMPERATURE SENSOR AND THERMOSTAT SHALL BE LOCATED A MINIMUM OF 2'-0" DOWNSTREAM OF THE ELECTRIC DUCT HEATER.  
 7. EXHAUST DUCTWORK SHALL SLOPE 1/4" PER FOOT BACK TO THE HOOD.  
 8. PROVIDE ACCESS DOOR IN THE SIDE OF EXHAUST DUCT.  
 9. PROVIDE ACCESS DOOR IN VERTICAL SECTION OF DUCT AT 5'-0" ABOVE FIRST FLOOR.  
 10. CENTER LINE OF FAN SHALL BE LOCATED 9'-0" ABOVE THE FIRST FLOOR.  
 11. PROVIDE ACCESS AREA FOR ELECTRICAL MAINTENANCE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

<b>CONSULTANTS:</b>  <b>AJH DESIGN</b> 216 OAKWOOD AVENUE ELMIRA HEIGHTS, NEW YORK 14903 P.H.: (607) 737-4638 FAX: (607) 737-1277 <small>AJH 11-058</small>		<b>ARCHITECT/ENGINEERS:</b>  <b>Larson Design Group</b> Larson Design Group • Architects • Engineers • Surveyors 1000 Commerce Park Drive • Suite 201 Williamsport, PA 17701 PHONE 570.323.6603 TOLL FREE 877.323.6603 FAX 570.323.9902 • 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>Project Number:</b> <b>6944-001</b> <b>Building Number:</b> <b>#9</b>		<b>Location:</b> <b>BUILDING #9 ROOM 5C</b> <b>Date:</b> 2-24-2012		<b>Drawing Number:</b> <b>9-MH 1</b> <b>Checked:</b> MPN <b>Drawn:</b> DLS <b>Dwg. 1 of 1</b>		<b>Office of Construction and Facilities Management</b> 	
--	--	--	--	--	--	--	--	---	--	---	--	---	--