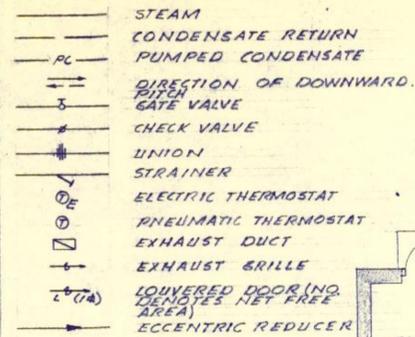
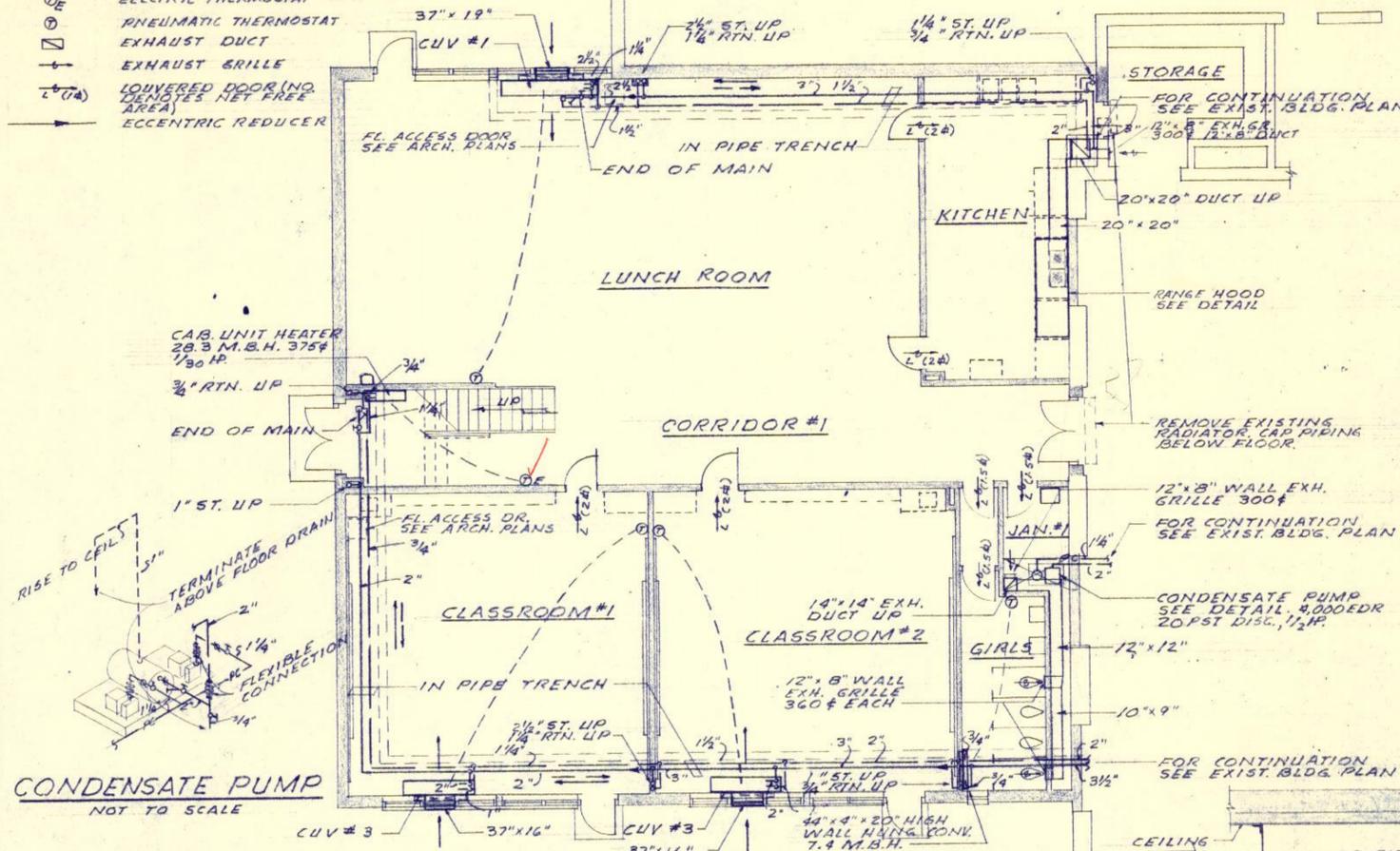


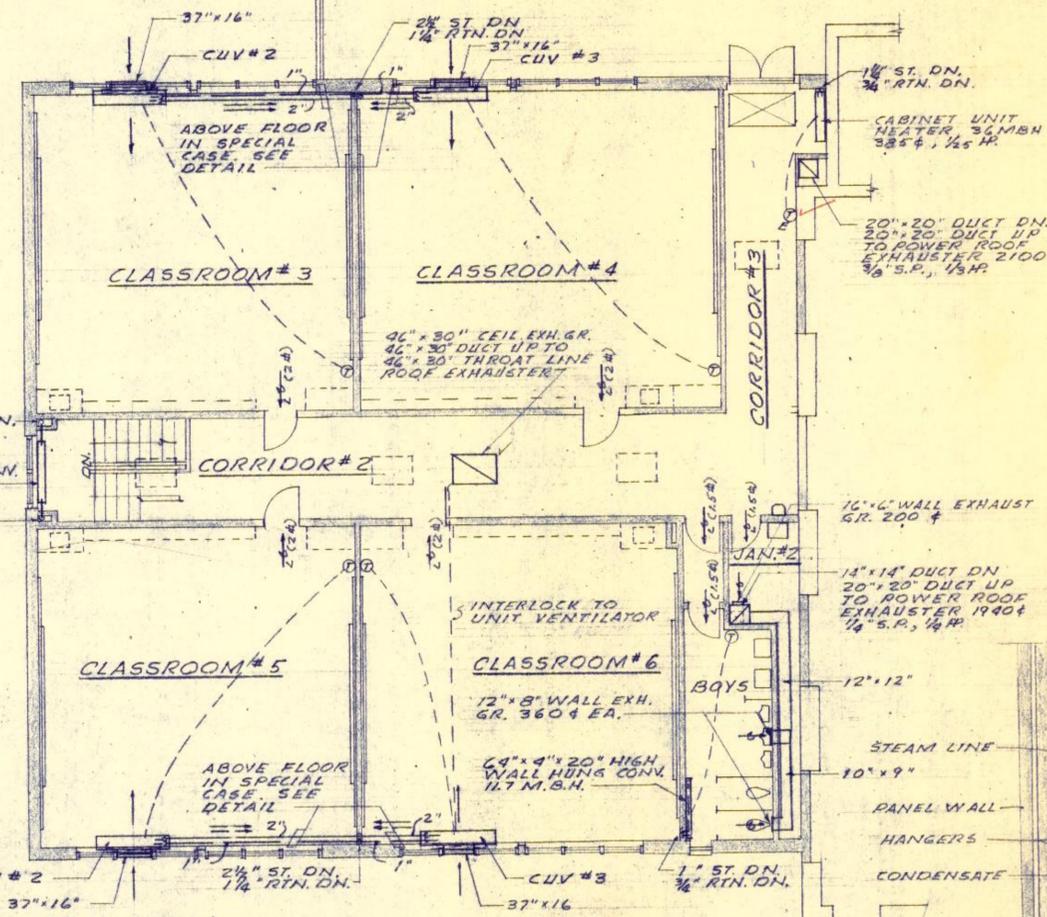
**HEATING SYMBOLS**



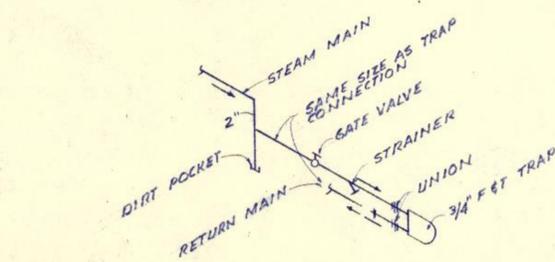
UNIT VENTILATOR SCHEDULE							
DESIGN.	C.F.M.	HP.	TOTAL M.B.H.	HEAT M.B.H.	MIN. OUT. AIR %	OUT. AIR TEMP. °F	REMARKS
CUV #1	1500	1/4	134.8	70.0	50	-10	
CUV #2	1000	1/2	95.0	73.0	25	-10	
CUV #3	1000	1/2	78.5	56.9	25	-10	



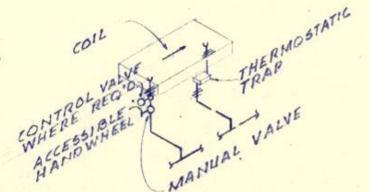
**GROUND FLOOR PLAN**  
SCALE - 1/8" = 1'-0"



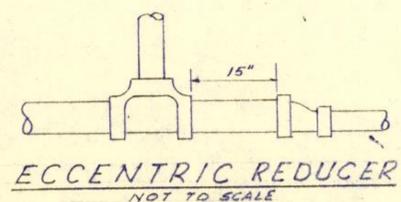
**SECOND FLOOR PLAN**  
SCALE - 1/8" = 1'-0"



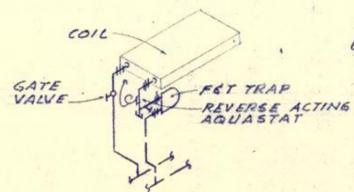
**TYPICAL END OF MAIN DRIP**  
NOT TO SCALE



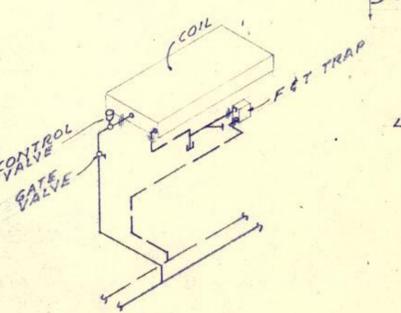
**CONVECTOR PIPING**  
NOT TO SCALE



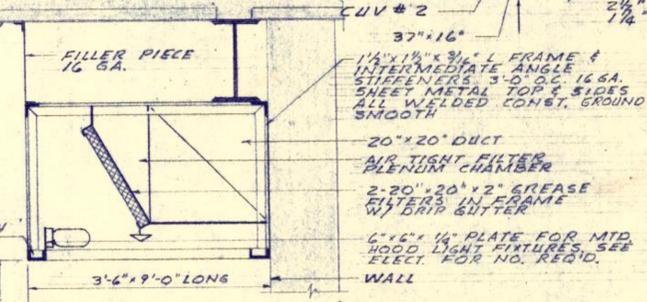
**ECCENTRIC REDUCER**  
NOT TO SCALE



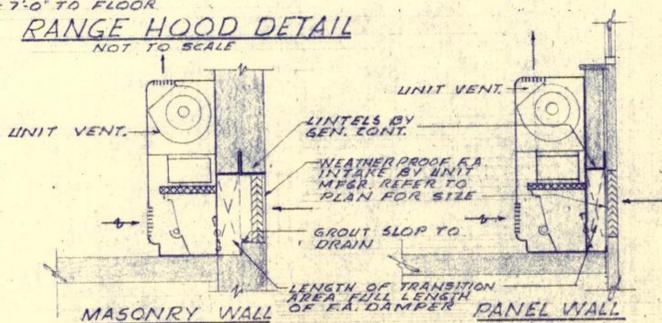
**UNIT HEATER PIPING**  
NOT TO SCALE



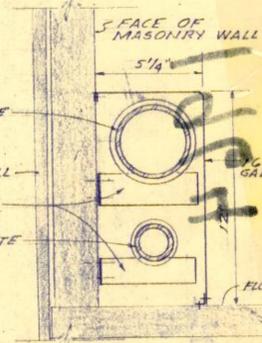
**UNIT VENTILATOR PIPING**  
NOT TO SCALE



**RANGE HOOD DETAIL**  
NOT TO SCALE



**UNIT VENTILATOR SECTION**  
NOT TO SCALE



**SPECIAL CASE**  
NOT TO SCALE

PIPE SIZE	SUPPLY #/HR.			RETURN #/HR.		
	RAD. VALVE	MOD. VALVE	STEAM RUNOUT	THERM. TRAP	F&T TRAP	CONDENSATE RETURN
1/2"	5	31		39		
3/4"	36	57	11		134	43
1"	60	92	19		336	99
1 1/4"		168	39			208
1 1/2"		264	55			326
2"			98			
2 1/2"			168			

**HEATING & VENTILATING PLANS & DETAILS**

STATE OF MISSOURI  
PAUL E. C. MASSAGLIA  
REGISTERED PROFESSIONAL ENGINEER  
E. 4203

AN ADDITION TO  
HUMBOLDT ELEMENTARY SCHOOL  
SECOND & CHERRY STREETS  
ST. JOSEPH, MO.

**HERSCHMAN & DOUGLAS**  
Engineers & Architects  
TERMINAL WAREHOUSE BUILDING - SOUTH ST. JOSEPH, MISSOURI

MADE BY: B.L.E. CH'KD. BY: P.M. REVISED: \_\_\_\_\_

MASSAGLIA-NEUSTROM-MIDDLETON MECHANICAL ENGINEERS

SHEET NUMBER  
**M-2**  
OF 4  
DATE: \_\_\_\_\_