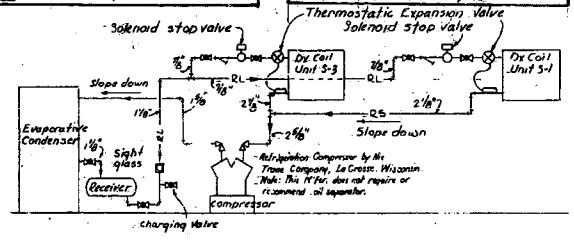
LEGEND	
CW	cold water
HW	hot water (domestic)
HWR	hot water (circulating)
CR	condensate return
S	sanitary sewer
SP	steam (low pressure)
V	ventilation
CHWS	chilled water supply
CHWR	chilled water return
G	gas
A	compressed air
V	vacuum
RL	refrigerant liquid line
RS	refrigerant suction line
O	oxygen
He	helium
H	hydrogen
GV	gate valve
GLV	globe valve
CV	check valve
RV	relief valve or safety valve
CV	automatic control valve
PRV	pressure reducing valve
TEV	thermostatic expansion valve
AV	angle valve
GVR	gate valve, in rise
PV	plug valve
STR	strainer
PG	pressure gauge
T	thermometer
PS	pressure electric switch
EP	electric pneumatic valve

LEGEND (cont)	
	opposed parallel ceiling dampers
	supply duct
	return duct or exhaust
20x12	duct dimensions in inches
	rise in duct
	flexible connection
	ceiling grille, return or exhaust
12x6	supply grille, dia and size
	ceiling diffuser
	duct turning vanes
	room thermostat
DM	damper motor
	remote bulb thermometer
	remote bulb thermostat

ABBREVIATIONS

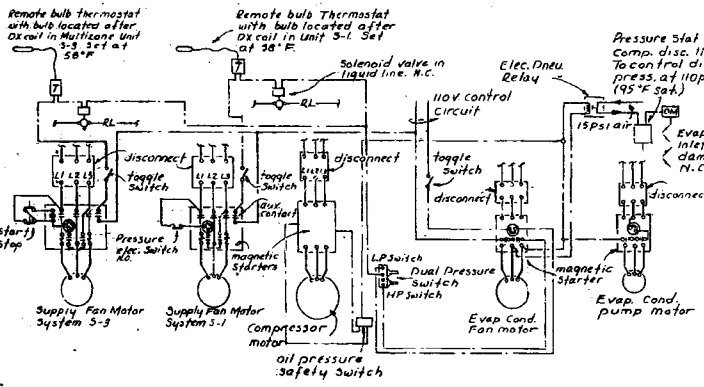
A.D.	access door
A.S.M.E.	amer. society of mech. engrs.
C.F.M.	cubic feet per minute
D.A.	direct acting
D.B.	dry bulb temperature
F.A.	fresh air
F.A.D.	fresh air damper
F.D.	fire damper w/ access door
H.D.	hood damper
M.B.H.	thousand BTU/hr
N.C.	normally closed
N.O.	normally open
R.A.	return air
R.A.	reverse acting
S.D.	splitter damper
S.P.	static pressure
W.B.	wet-bulb temperature



SCHEMATIC REFRIGERATION PIPING DIAGRAM

NO SCALE

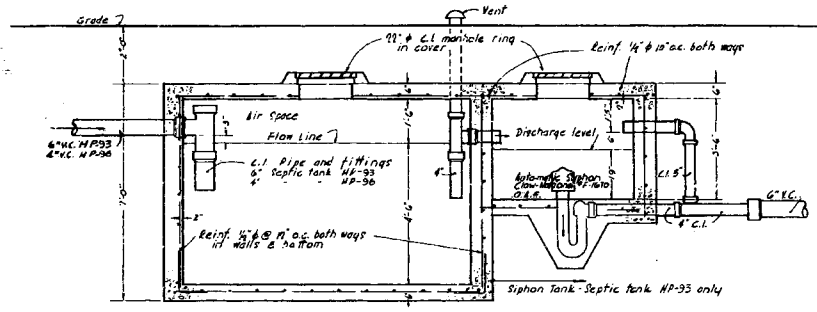
BLDG. HP-86



REFRIGERATION CONTROL & ELECTRICAL INTERLOCK SYSTEM

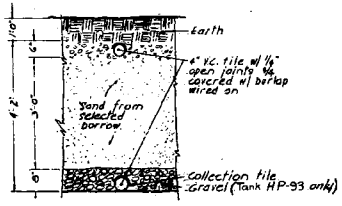
NO SCALE

BLDG. HP-86



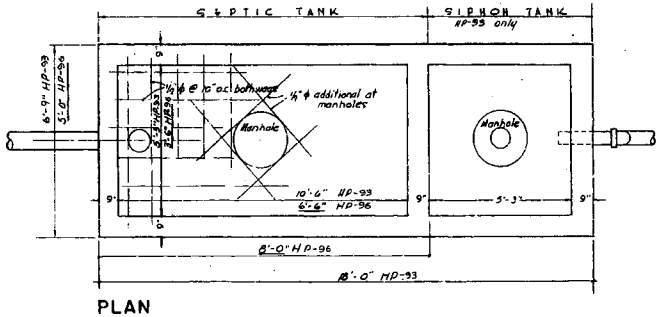
SECTION

Note - scale shown for Septic tank HP-96



PART. SECTION THRU SAND FILTER

NO SCALE

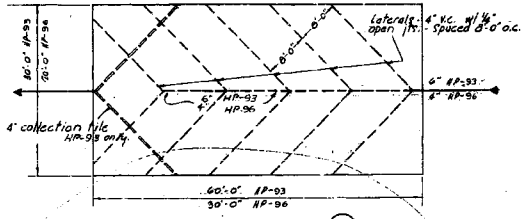


PLAN

SEPTIC TANK — DETAIL

HP-96 & HP-93

NO SCALE



SAND FILTER — DETAIL (3/S8)

NO SCALE

STEAM COIL SCHEDULE

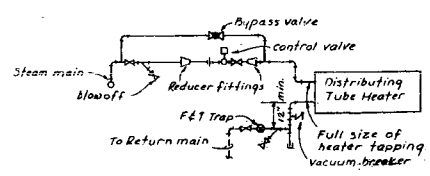
SYMBOL	UNIT NO.	HEATER DATA: CFM TOTAL	AIR TEMP. °F ENTERING	CAPACITY MBH	FACE AREA	G.P.M. IN WATER	F&T TRAP COND. W/BR. @ 1 PSI DROP	CONTROL VALVES STEAM W/BR. @ 5 PSI DROP	PIPING: STEAM	COND.
A	C-1	1500	-10°	48°	3.26	.040	130	64	2"	1"
B	C-1	1500	48°	126°	3.26		160	76	2½"	1"
C	C-2	3824	-10°	48°	8.49		380	188	3"	1½"
D	C-2	3824	48°	93°	8.49		300	145	2½"	1"
E	C-3	3180	8°	47°	8.49	.010	270	110	2½"	1"
F	C-3	3180	47°	107°	8.49	.050	310	154	3"	1½"
G	C-4	6160	33°	88°	18.1	.050	470	300	3½"	1½"
H	C-4	6160	88°	115°	18.1	.050	470	210	3"	1½"

All steam coils to be non-freeze distributing tube type.
Coil capacities to be within 5% of the values given.

AIR CONDITIONING UNIT SCHEDULE

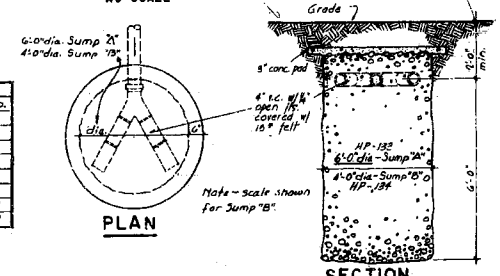
DESIGNATION	MODEL NO.*	CFM**	STATIC** PRESSURE IN. WATER	MOTOR H.P.	ELECTRICAL CHARACTERISTICS: VOLTS	CYCLES	PHASE
C-1	18B-10 Arrangement C	1500	0.70	½	208	60	3
C-2	27-12 " "	3824	0.16	1	208	60	3
C-3	27B-12 Arrangement F	3180	0.80	1	440	60	3
C-4	27B-18 " C	6160	0.63	1½	440	60	3

* ~~Trenton Blower Co. St. L.~~ Marta Coil Co., St. Louis, Mo. See bound volume of equip. info. for complete data.
** CFM and static pressure at 6600' elevation.



STEAM HEATING COIL PIPING DIAGRAM

NO SCALE



PLAN

Note - scale shown for Sump "B"

SECTION

SUMP — DETAIL (2/S8)

NO SCALE

BLDG'S. HP-86 & 87

AS BUILT DRAWINGS

NO.	DATE	REVISIONS	BY	CH.	PROJ. ENGR.	A.E.C. APPR.
1	12-5-53	ADDED TANK NO'S.				

U. S. ATOMIC ENERGY COMMISSION
LOS ALAMOS FIELD OFFICE
LOS ALAMOS NEW MEXICO

MECHANICAL DETAILS

ADDITIONAL FACILITIES TA-33
PROJECT "F"
LOS ALAMOS NEW MEXICO

MAX FLATOW - JASON MOORE
ARCHITECTS

BRIDGERS & PAXTON — mechanical engineers

1-A-A1-84

37257