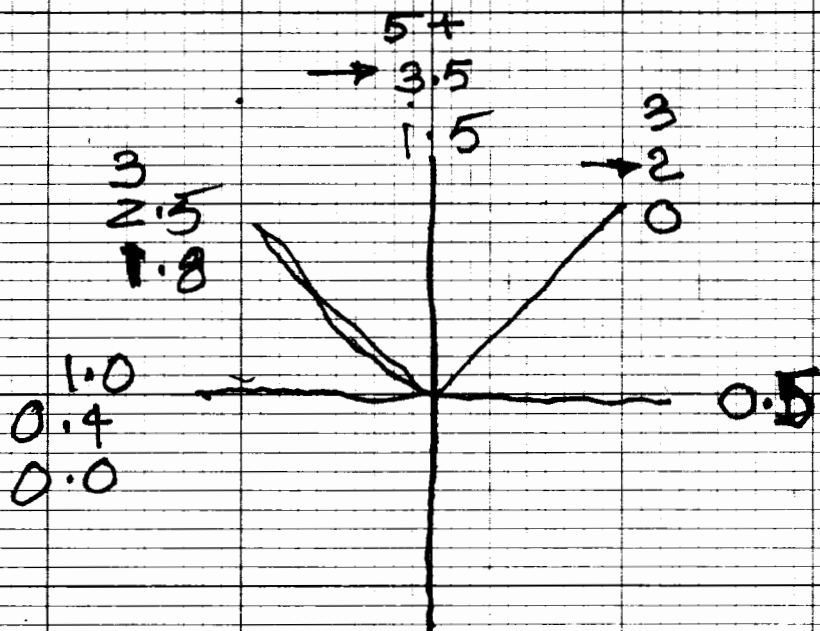


March 29: 2:00 PM

Wind Velocity in open - 1.6 M



Fewer Pussel
Crossroads House
Charlton
Singleton
Chester W. Sussex
Singleton 687

Sultan 288010

Bilharsia - copper-sulfate - retained for 48 hours. 1 small bag clears 2km for one year.

Building Research Temp.

Air Temp, Thermal Comfort.

Air Temp - Shade & sun using Whirling Hygrometer - sample

March 29

March 29	1:30	3:30
DB - 29 30.5		26-27.5
WB - 20		18.3

Globe Thermometer Outside 39 2PM

" " 36 3:30 PM

1:00 PM DB - 25.5 WB - 18.2

1:30 PM DB 27 WB - 19 Globe - 38.5 Sun

2:00 DB 26.5 WB - 18 " 39.5

2:30 DB 26.8 WB - 18.1 " 39.0

2:45 shade DB 25.8 shade WB 17 shade 29.5

sun DB 28.5 WB 17.5

1:30 DB - 28.5 WB - 17.8

1:50 DB - 27 WB 17.2 Globe Sun 44

2:10 29 17.2 Shade 30.7

March 31

Measurements House 7

Mar. 29 Globe Thermometer - 200 -

sitting Height 26.9
Roof

WALL SURFACES	Time	South Wall	Time	North	Roof
EXT					
INT					

~~TIME S. WALL N. WALL~~
~~ROOM I EXT INT EXT INT~~

13.30	S. Wall	ext	40°
14.33		int	29.5
14.00	N. Wall	ext	32
15.03		int	30

10.5°

Mar. 30. 2:30 WB 17
DB 23

ROOM 2			
13.35	S. wall	ext	41
14.36		int	31.5
14.03	N. Wall	ext	32.5
14.57		int	31

Mar. 29-30 - 2:00 - 2:00 PM
(max-min therm 21.5 - 26 = 4.5°C)

ROOM 3			
13.40	S. Wall	ext	44
14.39	N. Wall	int	31
14.07	N. Wall	ext	32
14.54		int	31

Mar. 30-31

Max-min 22.8 - 21.5 = 1.3°C
(taken after room had been closed up for 36 hours)

ROOM 4			
13.45	S. wall	ext	42
14.43		int	33
13.57	N. wall	ext	33.5
		int	

ROOM 5

Mar 31	- S. Wall Exterior	- 39°	14.5 Inside DB 23 WB 17
	" Interior	26	
	N. Wall Exterior	28	
	Interior	26	

House 2

Globe Therm 2:30

29

Velocity at N. window = 2
" outside = 4

27.4

very constant

Door 3.

~~29~~
Anemometer 2:00

~~wind velocity outside 4.5 vent.~~

~~Wind Velocity windows shut Top open~~

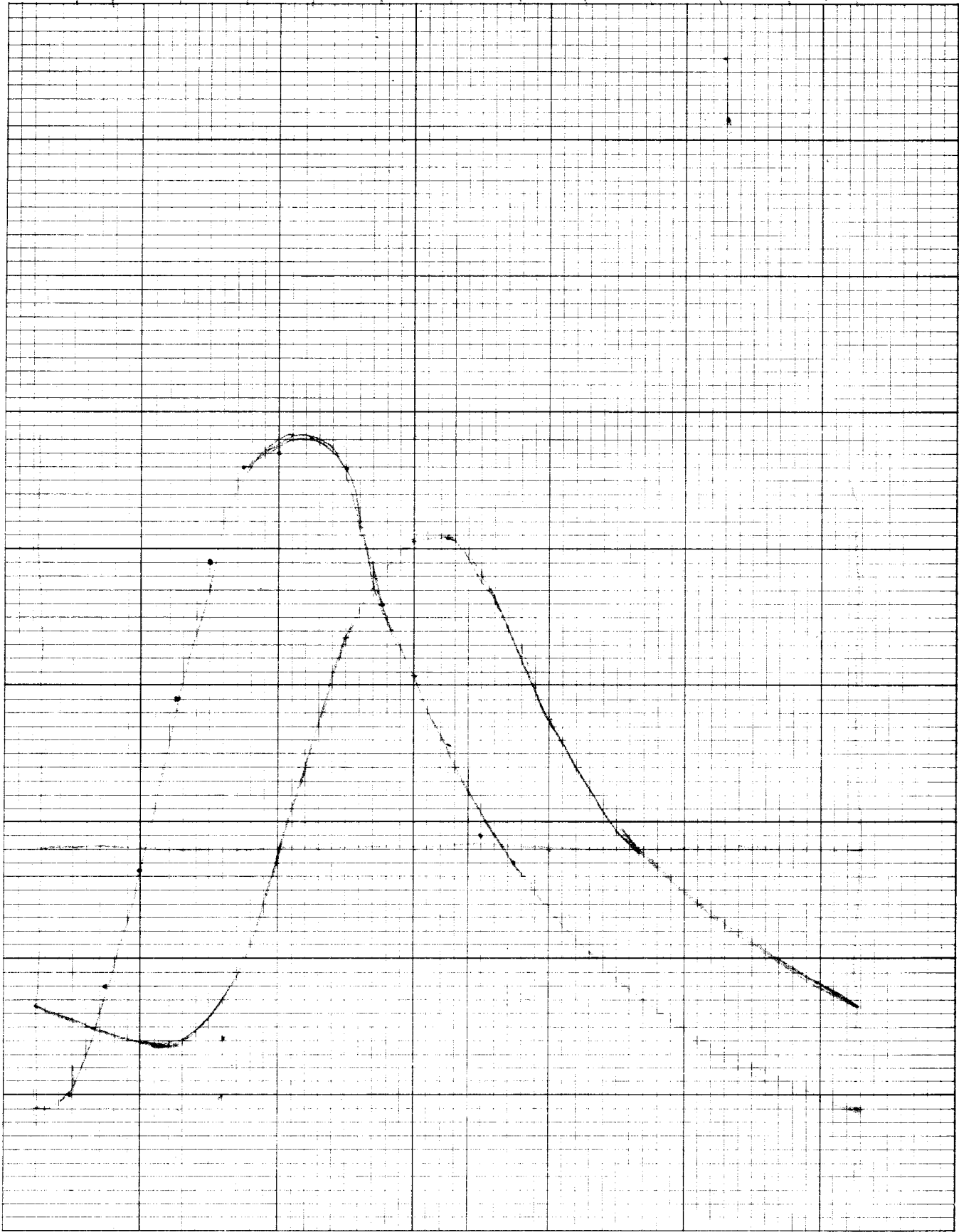
~~Door open - at door 2 m/sec~~

~~At vent - door open - .5 m/sec~~

~~Average Velocity in room at sitting level = 1.5 m/sec~~

7 9 11 13 15 17 19 21 23 25 27 29 31 33 35

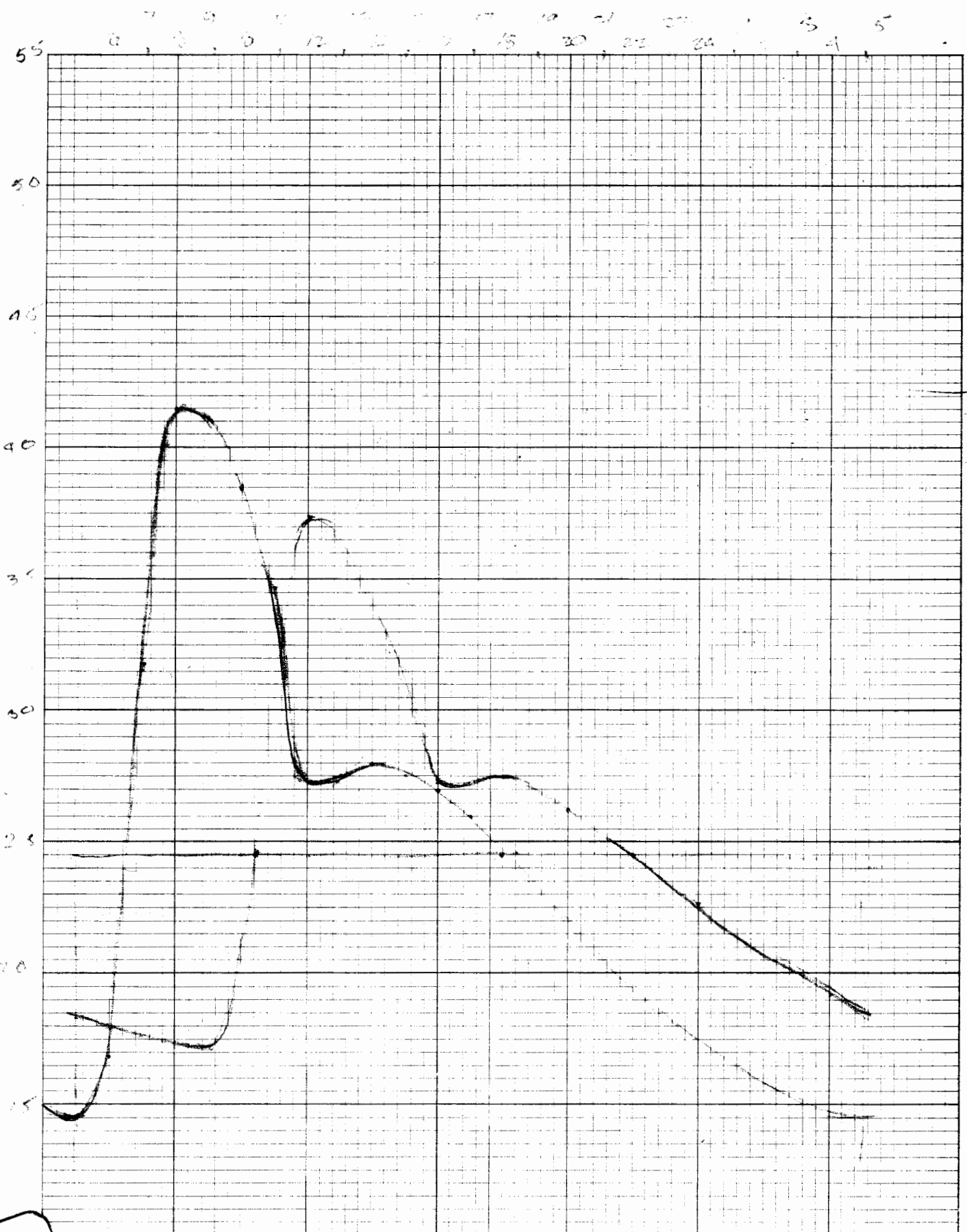
55
50
40
30
25
20
15



Temperature (C) vs Time (h)

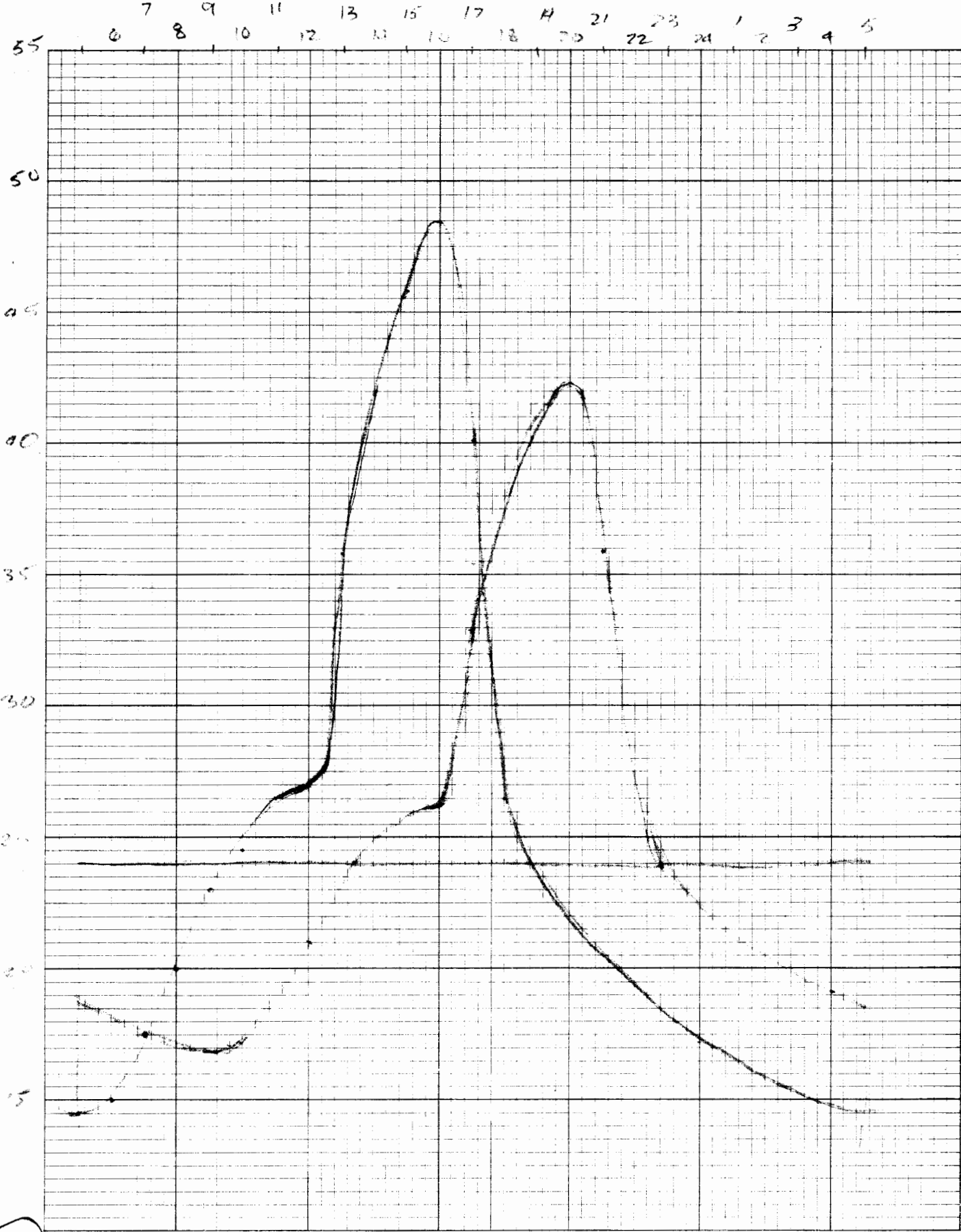
House 4
Globe thermometer → 3:30 $\frac{27.8}{28.0}$

U.
Resistivity $\frac{1}{.5} = 2$



EAST WALL - COND. ROOM

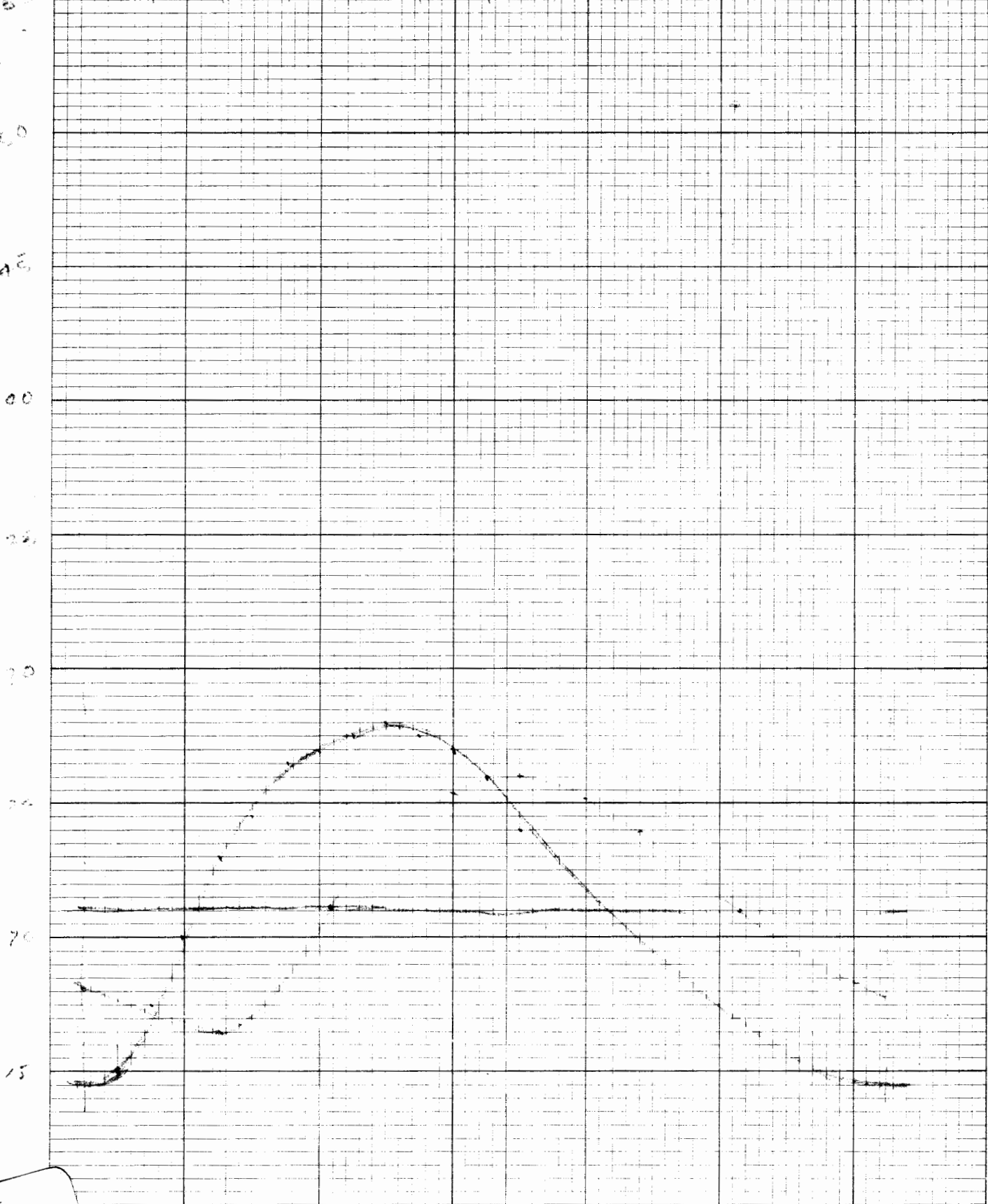
House 5
Globe Thermometer - 3:00 - 29.0



WEST WALL EAST WALL

House 6
Globe thermometer \Rightarrow 3.15 - 28.2

7 9 11 13 15 17 19 21 23 25 27 29 31 33 35



North Wall - Conc. Block

A

MAIN ST.

B

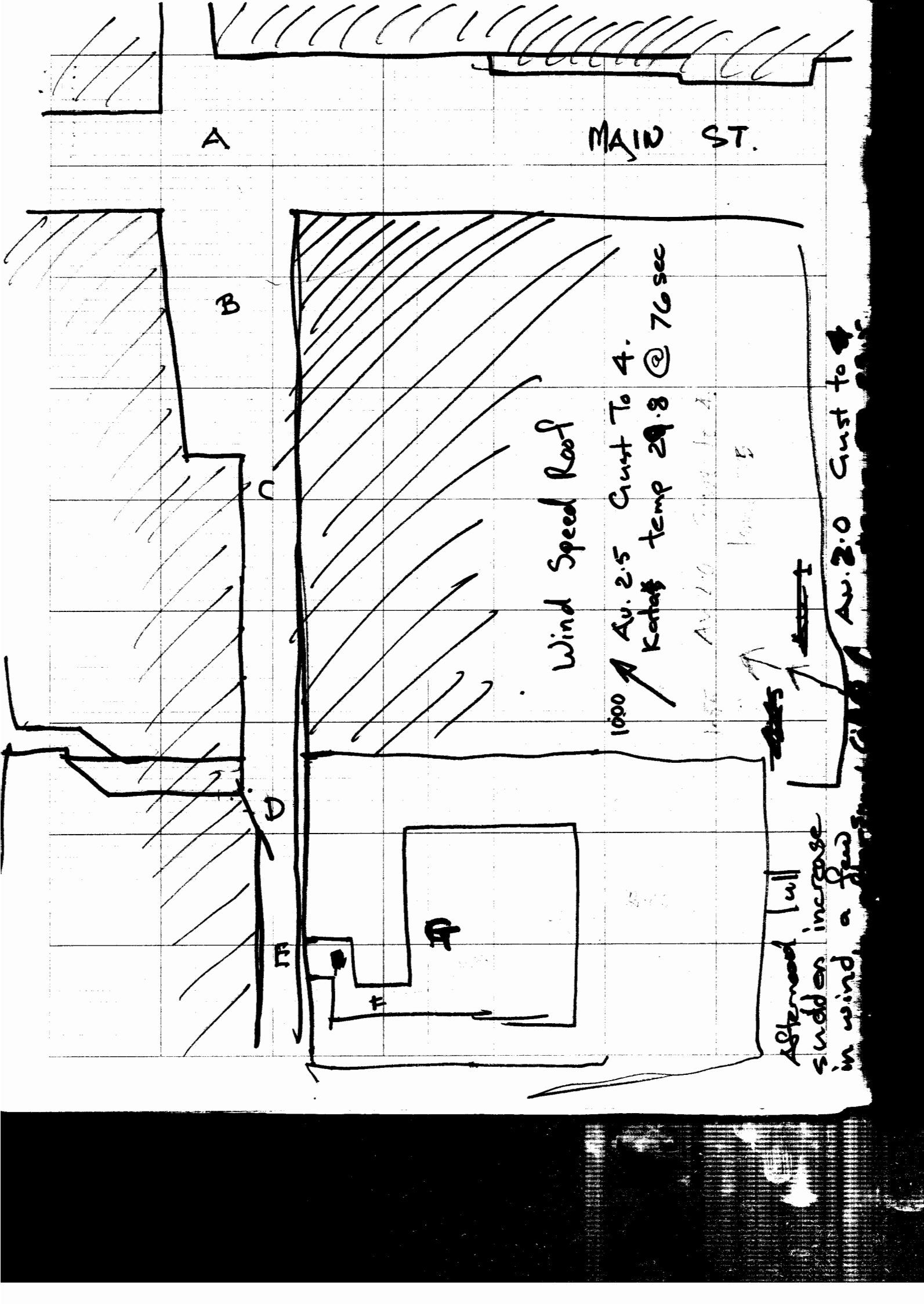
Wind Speed Roof

1000 ↗ Av. 2.5 Gust To 4.
Kataf temp 29.8 @ 76 sec

USE AV. 1.4 Gust To 2.
1000 ↗

Av. 2.0 Gust to 4

Afternoon lull
sudden increase
in wind, a few



11
 in wind a few moments after sunset
 A. 2:0 Gust to temp 29.5
 2:15
 2:25
 2:40
 2:45
 2:55

Related to plan

Tuesday

Velometer

Direction

Temp.

Kata.

A

.6

↑

~~29.3~~

240

B

1.5

↑

1/2 sun
31.5

C

1.8

↑

26.3

D

1.0

↑

31.5

118 sec

E

.2

←

27

F

.05

↖

26.6

120 sec

A

1.5

←

B

1.5

←

C

1.5

←

D

1.5

←

E

1.5

←

F

.1

→

30

G

.1

→

31.2

270 sec

A

.4

←

29.2

B

.4

↑

29.2

C

.2

↑

29

D

.6

↓

27.5

E

.2

↑

27

F

.175

←

26

G

0.0

27.3

after sunset

Kaa

Stinging Nettle & Dock

	Inside	Outside (street)
2:00	DB 23 WB 16	DB - 33.2 WB - 17.5
2:30		DB 34 WB 18 (Roof)
3:30		DB 32.5 WB 18 (Roof)
6:45	Outside	
	wind speed gusting at 4.5	Outside
		DB - 23 WB 17.5 17.2
6:45	inside	
		DB 24 WB 17.

10:00 AM. April 5

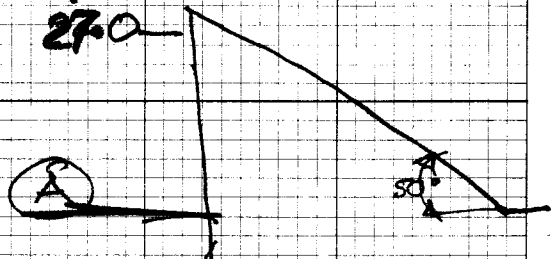
Small Court yd. DATA

DB=20.1 WB=13.5 Globe

11:00	Small	21.4 Air 1:07 time	21.8	16.2	22.3
11:30	Large		22.4	19.9	25.8 28.0
11:45	Large				
2:40	Small				24
4:00	Small		24.5	16.8	
5:15	Small		23.5	16.4	23.3
6:05	"	(Wall temp limestone west 26 East 28)	22	16	22

Wind Catch

1:45	Mouth	Roof	Room
	24.8	27.0	23.5



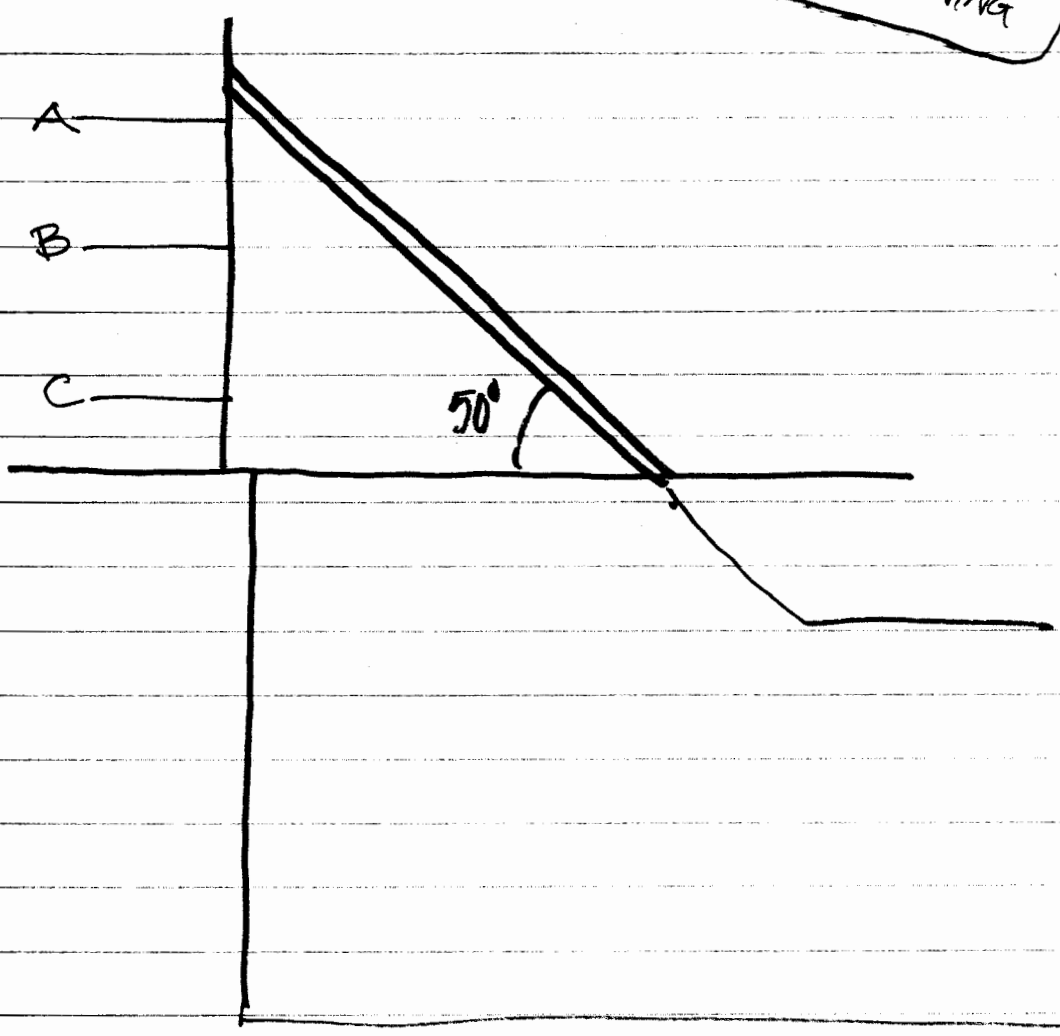
- (A) Horizontal roof surface 42°
- (B) Diagonal catch surface exterior 50°
interior 35°

Prof.	Kata	DB	WB	Cilokte
100	51 sec	24	15.6	
30		24.8	15.8	36.1
100		25.5	17.5	33
95		22.8	15.8	

0.0 2.0

RESEARCH

FROM THE TESTS WE MADE
WE HAVE ASCERTAINED
THAT THE SUN IS SHINING
AND THE WIND IS BLOWING



Kata Thermometer	Air temp
A 75 secs .	26.8
B 2mins 7seconds	25.8
C 1min 50secs .	25.2

2300

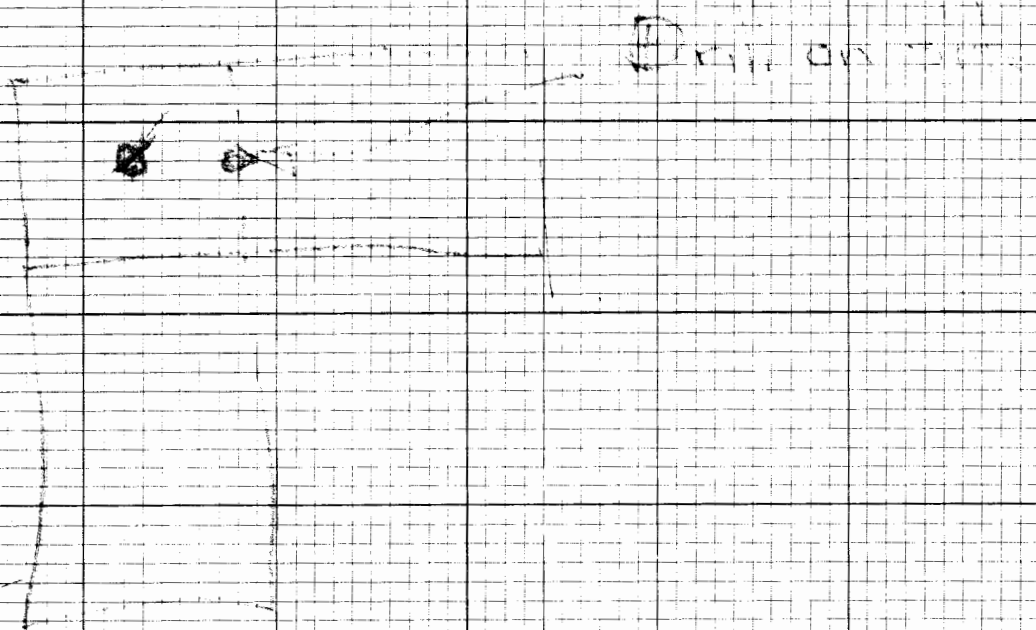
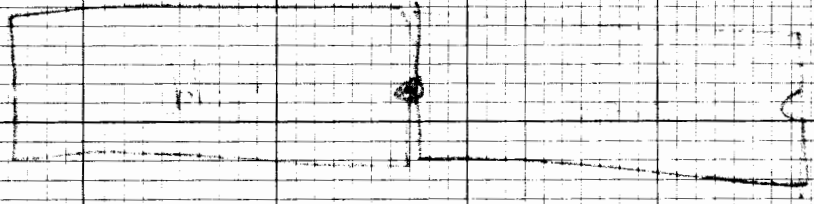
Velomete
.5 in
.3 out
.5 out
3:00

10

Procedural ...

Initial	Final	Mass	Volume
	In 27	1.5 gm	25
Widall - out	27		33

Temperature ...
 ...
 ...



B. R. Inst
Tahrir St. 989569
Dokki Giza Egypt. 981703

Not interested in walls,
But in pre-fab, difficult
components of roof
light weight roof systems,
Asbestos.

Mud is restricted
Mud for bldg. steals from
agriculture.

Law underway to put
mudbrick makers in prison
for spoiling fields.

Amused by the fact that we had actually
built a house.

I've been an engineer for years
I graduated in 1939, but I have
never done any building, I've
never laid ~~a~~ brick.

You will find very few
engineers ^{in this country} to have actually done
any building with there hands.

May 3 1891

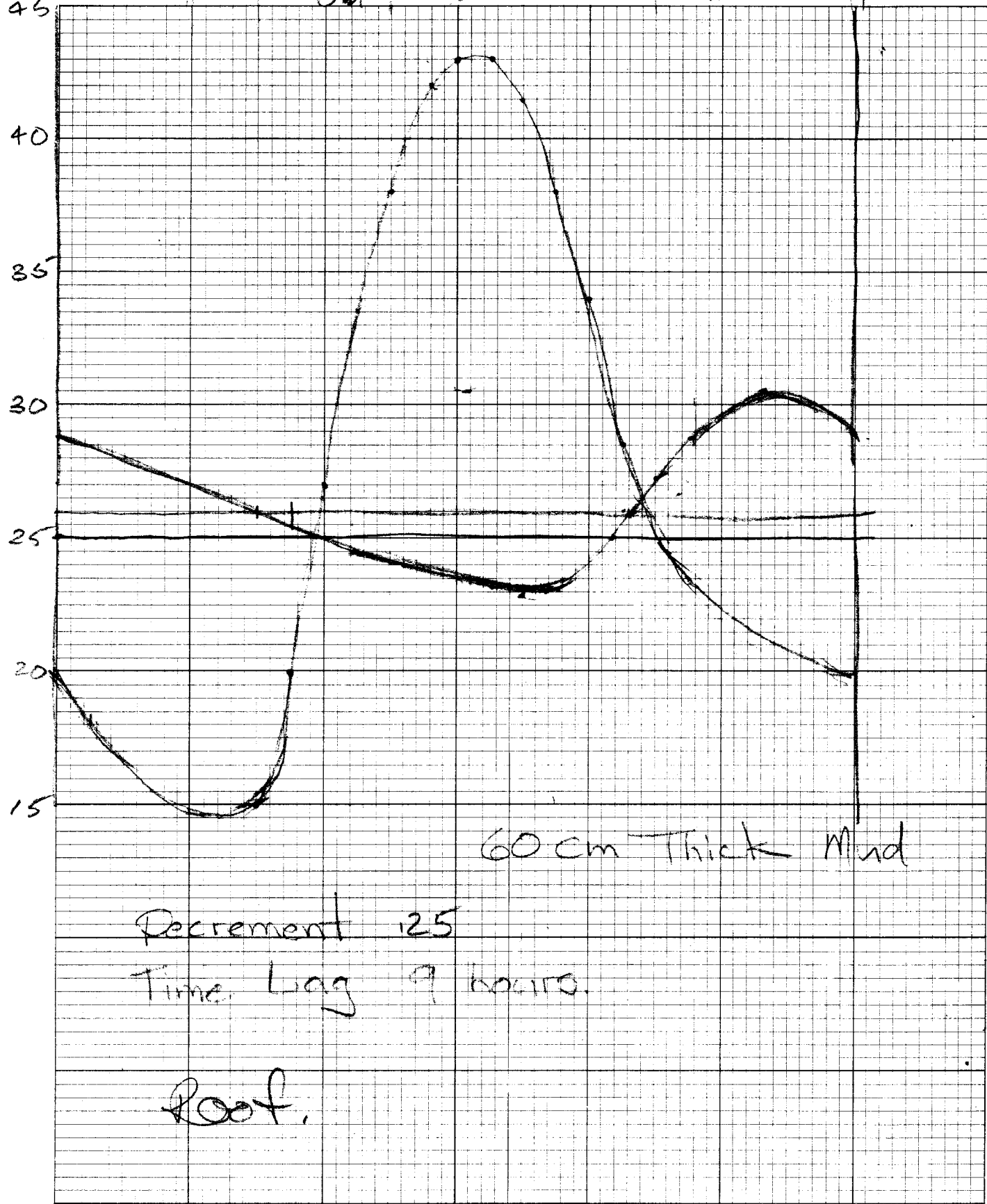
Alcedo

S. Wall
in

33
20

Dr. J. B. ...
...

ROOF
45 9 6 8 10 12 14 16 18 20 24



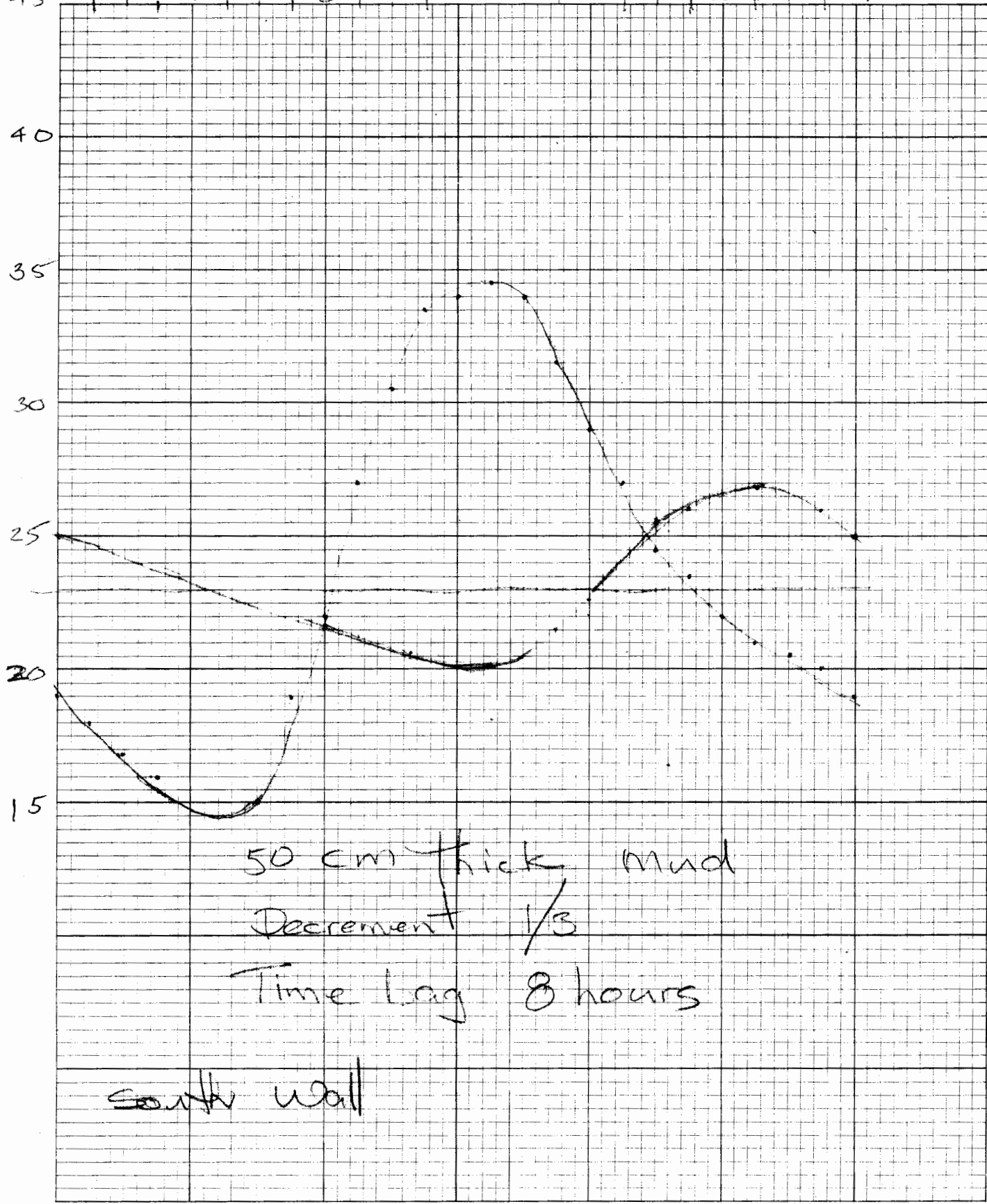
60 cm Thick Mud

Decrement 125
Time Lag 9 hours.

Roof.

6	7	8	9	10	11	12	1	2	3	4	5	6	7
26	25.5	25	24.5	24	23.5	23.2	23	24	25	26.2			
26	25.5	25	24.5	24	23.7	23.5	23.3	23	23.3	24	26	27.3	28.7

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



50 cm thick mud
Decrement $1/3$
Time lag 8 hours

South wall

3. اريد

1. = 2,0 x 10 x 2

2. = 2,0 x 9 x 10
= 2,0 x 90

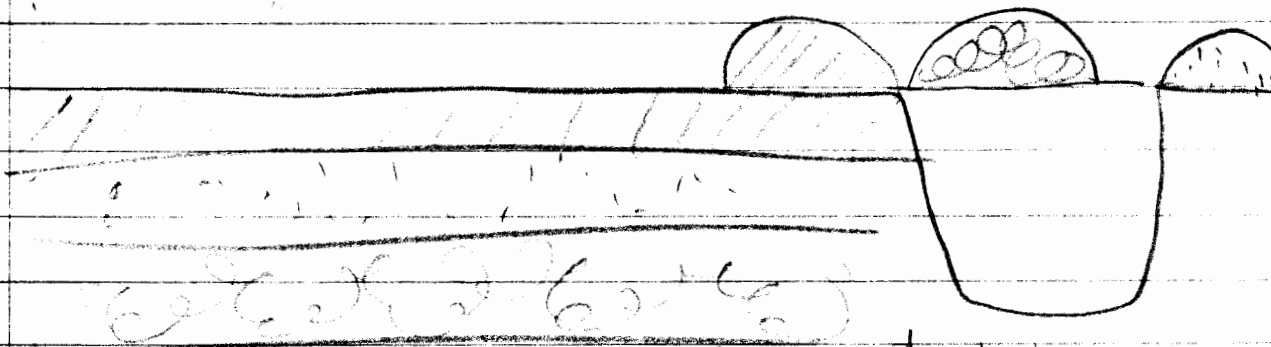
= 2,0 x 10 x 2
= 2,0 x 20

= 3,0 x 10 x 2
3,0 x 20
3,0 x 20

= 5,0 x 10 x 2
x 2

LECTURES - CARO UNIVERSITY
- THURSDAY MAY 3 1973

Grain size & percentages of sizes
cohesiveness, water cont. & % &
stability, ability to change size.



110 kg / sq cm from ^{good} mud brick
40 " " " is sufficient

large crack in the soils indicates
fine grains ∴ larger grains must be
added.

10 meter span or more requires
tension ring.

Tests - compression tension
bending & water drops

Grain test

~~1~~ Weigh Sample

Dry in Oven
Weigh Again

→ Water content

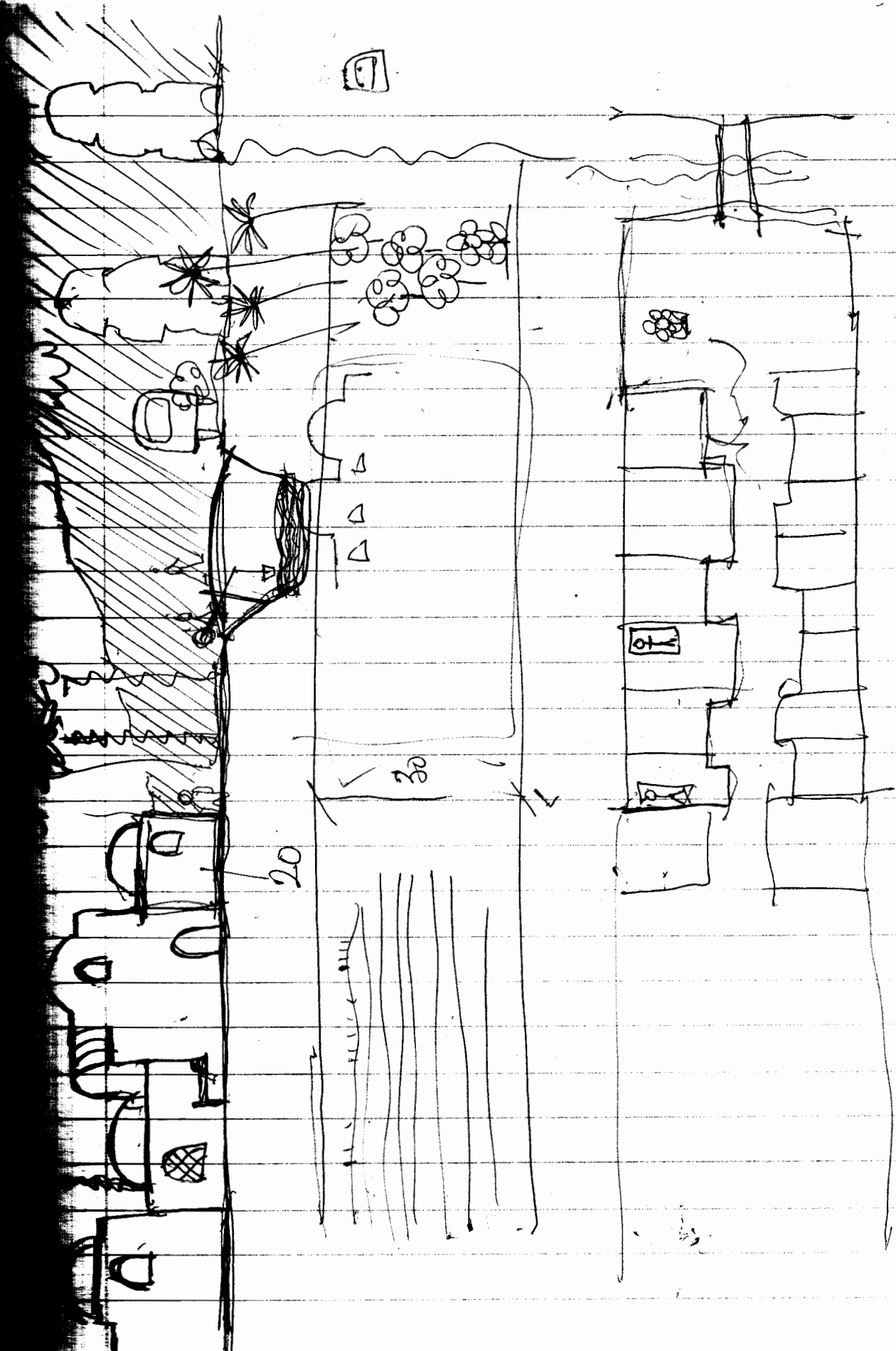
Pulverize 5 min.



Mortar & Pestal

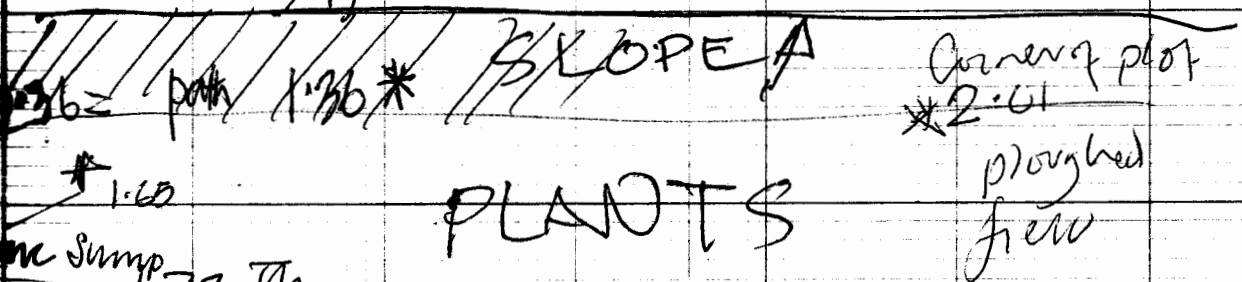
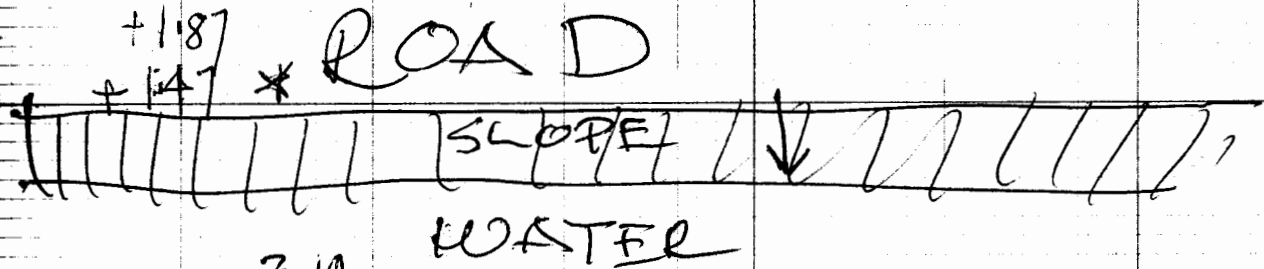
Put in ~~1~~ 7 sie. ~~max~~ section filter
20 min ~~in~~ hand shaking

Weigh each filterant



33

35



PLANTS



- 3 x 1.75 edge of green plant

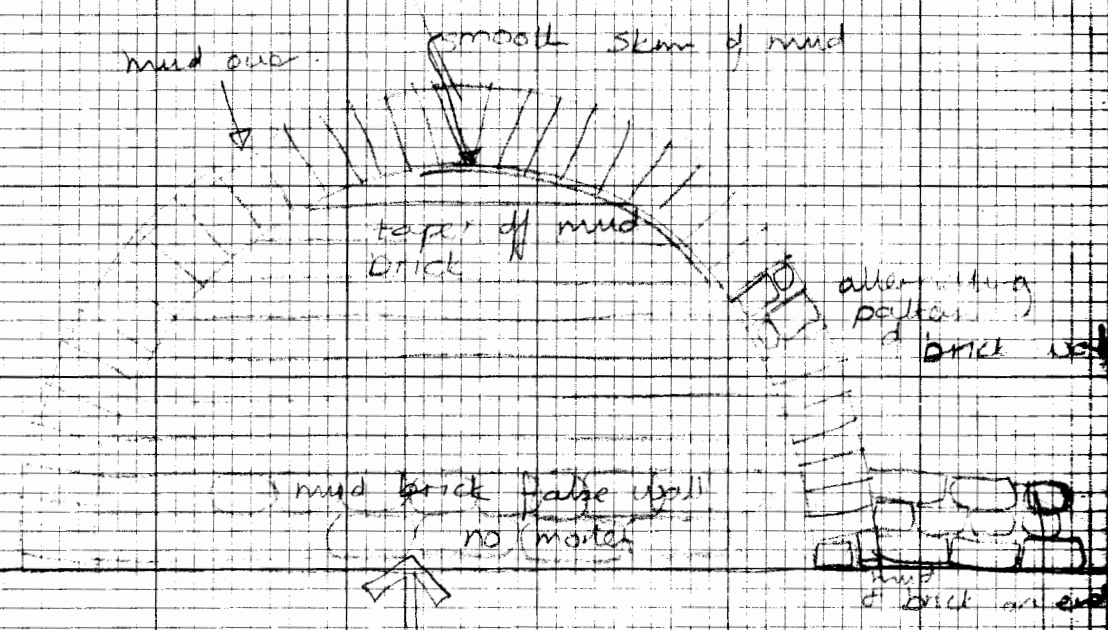
x 1.95 = -.23 edge of scrub tomatoes

April 1978

Mizira Test Sample Experiment

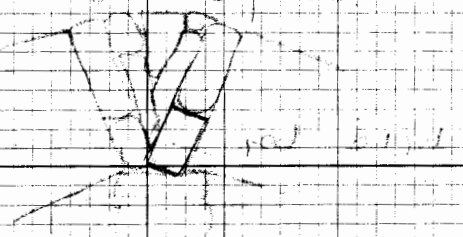
pk #			
1	Biological	Source	Tap
2		Jar	Tap
3		Output	Tap
4		Source	Pump
5		Jar	Pump
6	5	Output	Pump
7	6	Source	Nile
8	7	Jar	Nile
9	8	Output	Nile
10	Chemical	Source	Tap
11		Jar	Tap
12		Output	Tap
13		Source	Pump
14		Jar	Pump
15		Output	Pump
16		Source	Nile
17		Jar	Nile
18		Output	Nile

Use a red brick for structure



mud brick = mud mortar

angle to spin to fill



Stick into a new brick and to take bond into next wall at 1 to 1

frame of wall structure when needed

	(A) temp in	temp	(B) temp of water	(C) temp of out put	(D) dry bulb	(E) wet bulb	(F) surface temp of jar	(G) katag therm	
00					18.5	13.5	55		
00	22	22	0	17.5	-1	21	8 14	75 20	.2 in
00	21	21	0	19	5	24	6 15	37 20	.05 in
00	20.5	21	5	19	5.5	26	4 16.5	37 24	.05 out
00	20.5	25.5	50	19.5	8.5	29	3.5 17.	28 25	-
00	21	26	50	20	13	34	2 19	23 21	-
00	20.5	26.5	6	20	13.5	34	5 20	25 21	.04 in
00	20.5	27	6.5	20	14	35	5 20	23 21	.1 in
00	20.5	27.5	7	20	15	35.5	6 20.5	23 21	.1 in
00	20	26 27	7	20	14	34	4 20.4	27 21	.1 in
00	19.8	27	7.2	20	11.2	31	2 18.6	28 21	.2 in
00	20	28	8	20.5	10	30	1.2 18.8	33 20.8	.2 in
00	20	26	6	20.5	9	29	1 19	38 20.8	-
00	20	25	5	20	9	29	2 18	34 20	-
00	20	24	4	20	7.5	27.5	2 18	39 20	-
00	19	23	4	19.5	7	26	2.5 16.5	37 20	.05 in
00	18.5	21.5	3	19	7.5	26	1.5 17	40 19.8	.05 in
00	18.8	21	2.8	19	7.3	25.5	2 16.2	38 19.8	.02

7.25
 7.42
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 8.14
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Water Cooling-Purification Jars

7.25 17
 7.42 16
 7.58 16
 8.14 18
 8.32 17
 8.49 23
 9.12 20
 9.30 19
 9.50 18
 10.09 21
 10.27 21
 10.48 21
 11.09 21
 11.30 22
 11.52 22
 12.14 23
 12.37 23
 1.00 23
 1.25 27
 1.50 25
 2.15 31
 2.46 28
 3.14 30
 3.44 31
 4.15 38
 4.53 4
 5.30 37

1. Measure quantity of water input to jar. 30L

2. Measure quantity of water output from jar.

3. Every hour measure

- 1) temperature of water in jar
- 2) temperature of water in other water storage container
- 3) temperature of output water
- 4) dry bulb & wet bulb temp.
- 5) surface temp. of jar
- 6) kata thermometer

4) Time taken for x Liters to run through tank.

At 7:00 60 Measures ie 30L.
 $\frac{3.75}{21.25}$

Sun falls on surface of jar 9:00

Amt. evaporated = 3.25 l.

5:00 PM Depth 305 mm

11:00 PM " 253 mm

AMOUNT LEFT AT 11:20 = 17.5 Measures
 $\frac{8.75}{21.25}$

- 1 Door 1m with frame x 2.00 m
- 2 Door 80cm with frame x 2 m
- 4 Windows 60cm opening with frame 1.92
- 4 Small Windows 40 cm with frame x 85cm
- 1 large semi circular window 2.7m x 2.00m

1 H.F.'s house

Area of Foundation 26.875 m

up 3 courses = 80.535 m

7.90
2.90
7.90
27.60

192.81

195.73

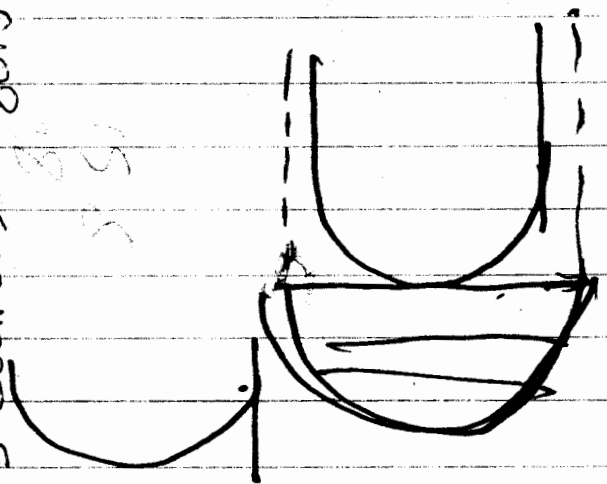
60
120
40
115
700
250
180
110
420
50
285

190 discolored
100 cal carbon
10-20 chlorided

26.875
80.535
26.875
209.33

60
120
40
115

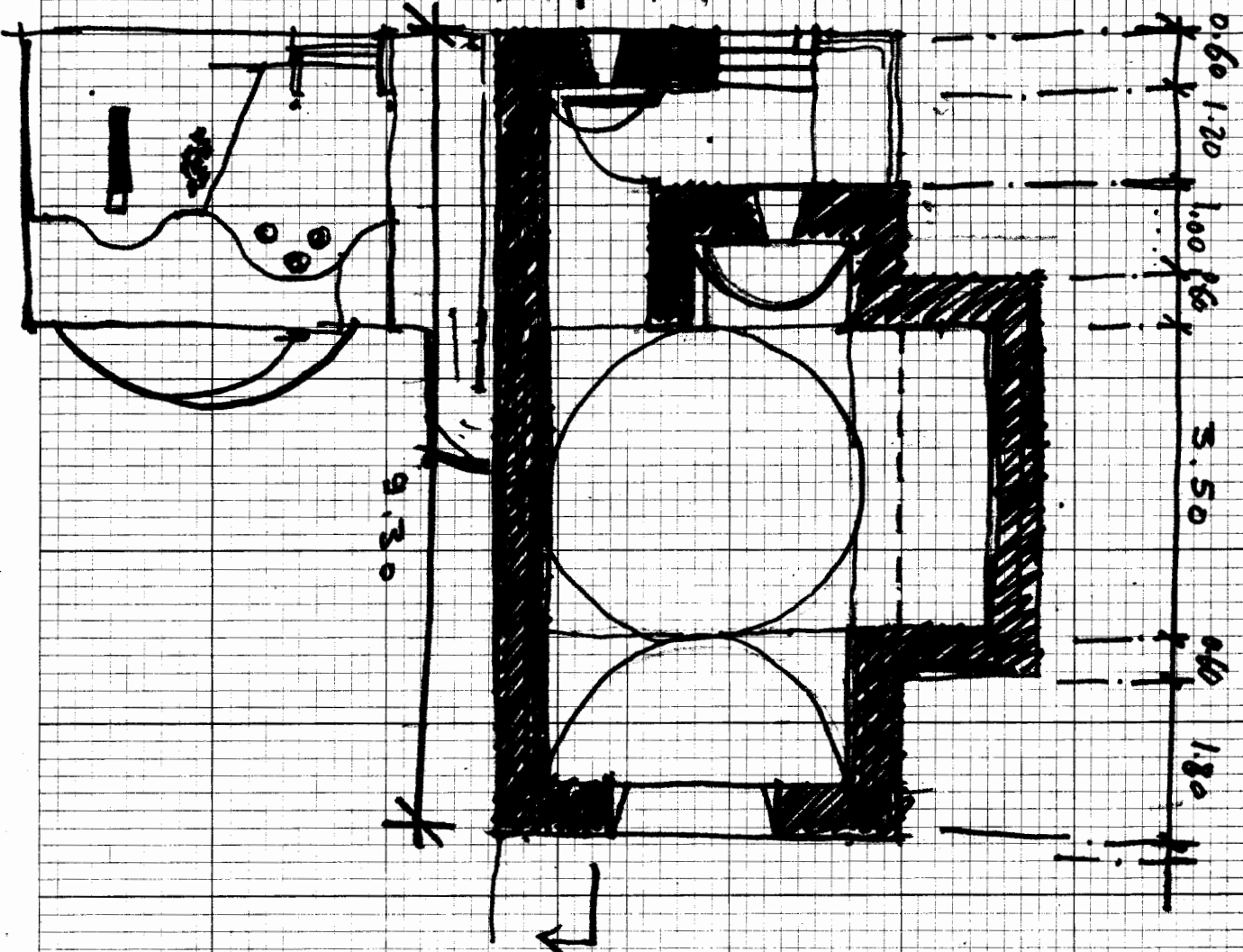
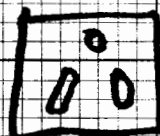
Zira - water jars samples not kept more than 24 hours



12.7
80.535
209.33

11

11



9.30

0.60

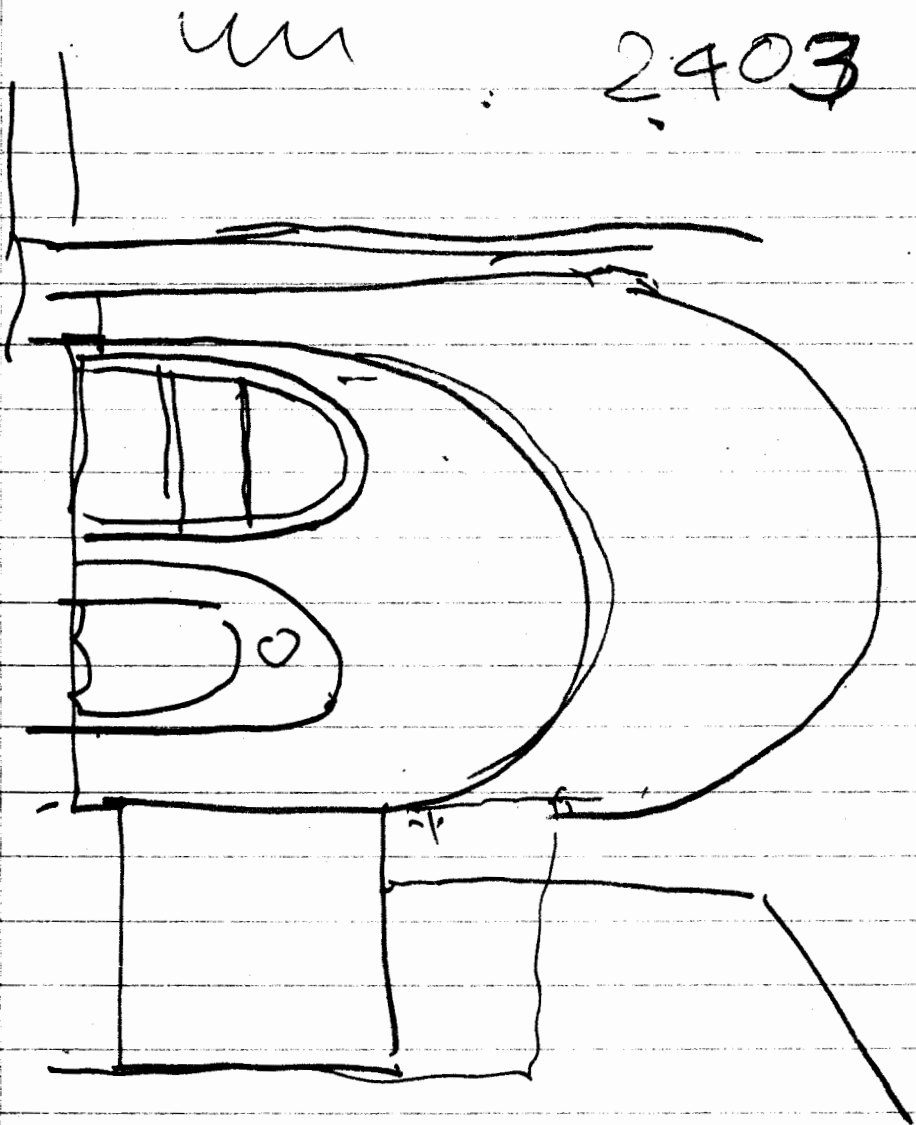
1.20

1.00

3.50

0.40

1.80



2, 33
2, 30
2, 35
2, 38
38
35
4, 70
2, 30
4, 70
2, 30

4.70
7.30
148
9L
1088
35
5440
264

Sand 4.70 x
3.8 cu m 2.30 x .35

14100
940
108100
35
590500
324300
3783500
3.8 cu.m

500
280
220

2.30