Levels (for taping) m - .576.
e eyepiece - .32
G - 1.17
J - .62
K - .61

Check Measurements of Court II

hq -
hd -
hb -
dg -
fb -
bg -
ko -
Ueo -

Triangulation on J-12 & Court II pts.

K at G. underdrop ht.

K at G - 0 on q, I (J-12) - 25° 14', B to A (on corner J-13) 49° 31½'; pt III - 209° 40'

pt III 266° 20', p - 283° 21', e - 289° 54', A - 289° 38'

pt III on stump middle of J-12

6/1/36.

J - 11.

Traverse measurements.

Subtract 7.00m.

Underlined measurements, subtract 8.00m.

For rounded of measurements add .01 every 4m

pt P on stump

pt II of J-12

A on stump

Bearing line A-B-C-D = RS - N. 143° 2' W.

A - 9.84 (III) 6.73 (p) 14.70 (c)

A - 14.67 (B) 18.47 (C)

C - 7.44 (D)

E - 12.38 (of court II traverse) 11.95 (A) 8.16 (B)

p - 9.82 (of court II traverse) 9.60 (F). 6.52 (E)

K -

S - 4.70 (R)

Bearing line G-G - N 144° 51' W. line Gp. N 221° 28' W

Line G-I (½ 38.2m) N 38° 55' W

E (on stump

J - 16.95 (G)

K - 19.16 (G) 10.61½ (H) 9.48 (I) 6.14½ (J)

M - 16.61 (J) 8.46½ (K) 6.68 (L)

O - 4 - 13.74 (m - 11.06 n - 8.96½

q - (p - 5.27 (O - 6.58

G - 10.40 pt III court II (test

G - 13.07 (pt I of J-12), 16.69 (pt II of J-12 (on inverted tree) not very good.

8.73 (III of J-12) on roof of tree in middle)

12.24 (p)

Locations of Lo line

G - (6.40 (L) 10.71 (R)

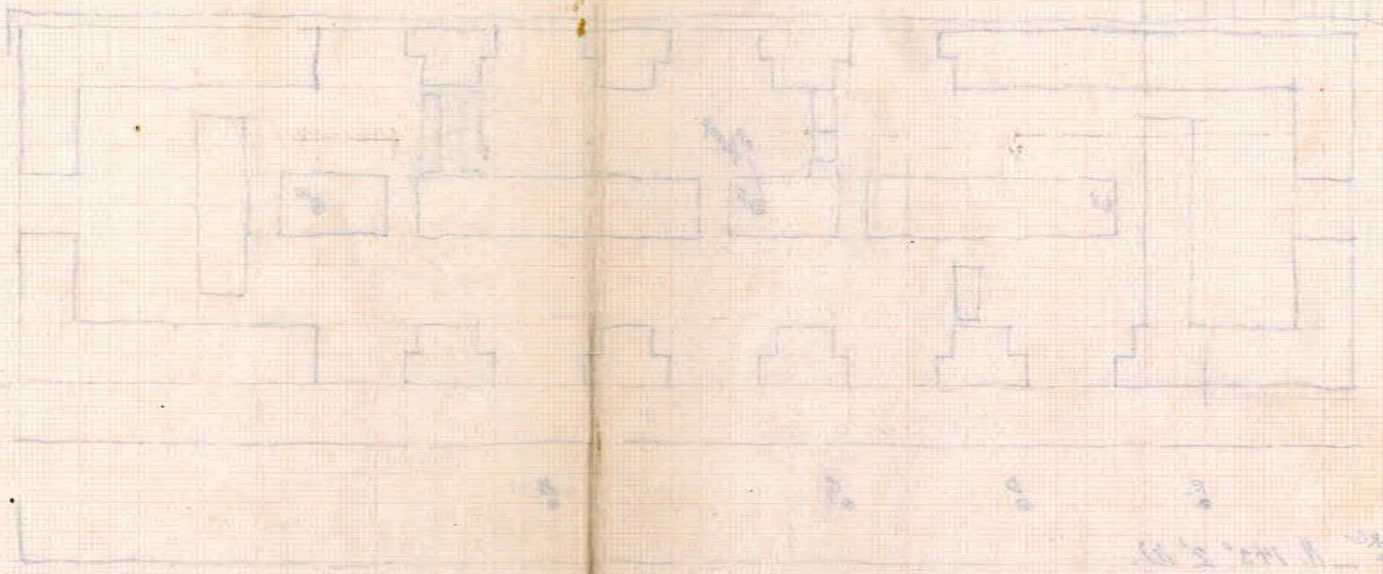
R - 13.17 (B) - 17.69 (L) 5.38 (b) 3.32 (b).

pt II of J-12

KEUFFEL & ESSER CO., N.Y. NO. 359-14L Millimeters.

J-11
plan

Checks on
Court II survey.



5.87 5.06

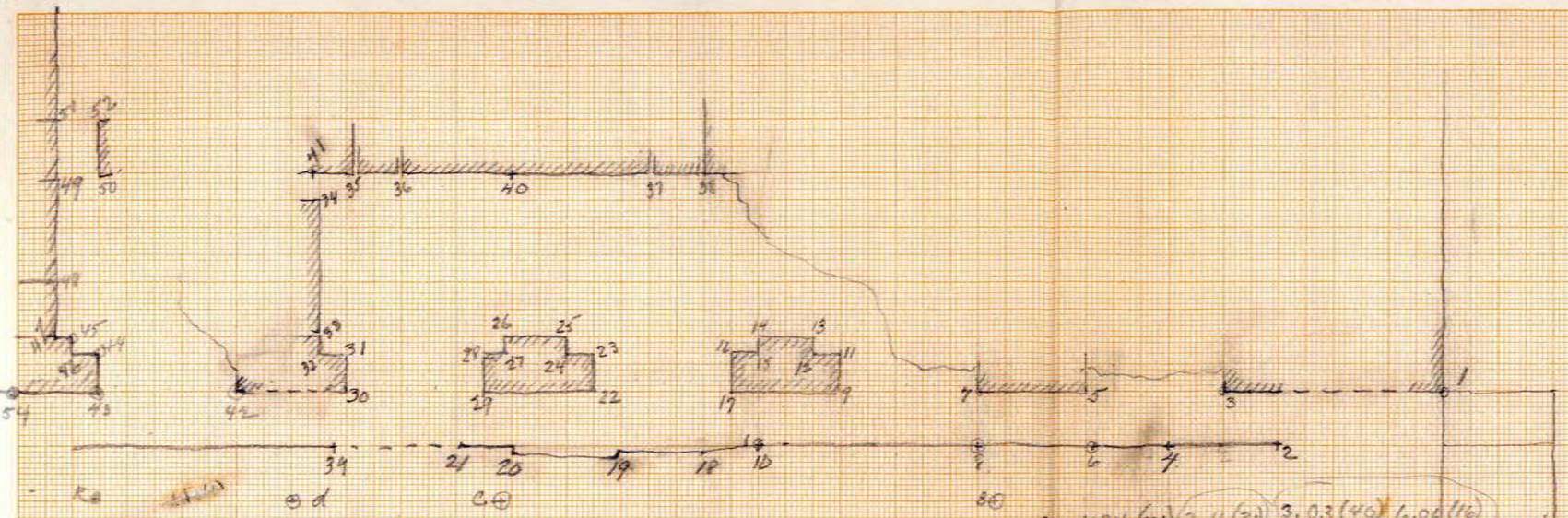
6/1/36.

J – 11.

Facade.

Subtract 4.00 m.

Encircled measurements add .01 each 4 m.



1 – 6.99 (p)

2 – 7.92 (E) 9.29 (B) 9.46 (A)

3 – 8.24 (E) 8.95 (B) 4.78 (2) 4.72 (4) 5.82 (6)

4 – 7.57 (E) 8.36 (B) 4.96 (2)

5 – 7.94 (E) 7.20 (B) 4.54 (6) 6.38 (2)

6 – 7.41 (E) 6.98 (B) 11.82 (A)

7 – 6.07 (B) 4.57 (2)

8 – 7.67 (E) 5.85 (B)

9 – 5.23 (B) 5.85 (7)

10 – 5.30 (B) 2.77 (C) 1.14 (16)

11 – 4.57 (9) 8.05 (C) 5.97 (B)

12 – 4.20 (13) 4.26 (11)

13 – 4.34 (11) 7.93 (C) 6.03 (B)

14 – 4.75 (13) 7.32 (C) 6.29 (B)

15 – 4.26 (14) 4.21 (14)

16 – 4.35 (14) 5.40 (9) 5.15 (10) 2.94 (C) 6.10 (3)

17 – 5.87 (B) 4.55 (16) 2.16 (14)

18 6.34 (C)

19 7.76 (C) 6.33 (23)

20 6.05 (C)

21 5.58 (C) 4.12 (25)

22 7.10 (6) 5.16 (C) 2.23 (16) 2.16 (17)

23 4.57 (22) 7.98 (B) 5.76 (C) 2.13 (16) 2.21 (17)

24 4.35 (23) 4.26 (25)

25 4.47 (23) 6.82 (14) 8.47 (B) 6.00 (C)

26 4.63 (25) 6.15 (C) 6.86 (D)

27 4.20 (24) 4.34 (28)

28 4.43 (26) 6.11 (C) 7.28 (D) 1.53 (29)

29 5.63½ (C) 6.66 (D)

30 5.02 (D) 3.17 (C) 1.87 (29) 1.86 (28) 2.20 (31)

31 1.78 (D) 3.46½ (C) 1.97 (29) 1.82 (28)

32 4.35 (31) 4.23 (33)

33 4.44 (31) 1.86-34 3.90 (49)

34 4.94 (41) 2.16 (31) 3.03 (40) 6.06 (16)

35 8.60 (38) 6.91 (31)

36 7.79 (35) 8.91 (35) 3.06 (31)

37 4.73 (38) 7.03 (23) 8.76 (C) 3.04 (23)

38 7.23 (41) 9.60 (31) 8.98 (C)

39 5.06 (D)

40 – 9.50 (D) 6.23 (38) 7.61 (13) 7.24 (31)

41 – 9.60 – 38 8.65 (B)

42 – 4.48 D 2.12 – (R)

43 – 1.23 – R 2.90 – D 4.75 – 5

44 – 3.22 (5) 3.19 – D 1.74 – R 52 – 43

45 – 1.43 (44) 2.05 – R 3.41 – D 4.65 – 5

46 – 1.35 (44) 2.22 (48)

Four corner 30 at 51 – 3 1.87 (29)

47 – 2.22 (48)

48 –

49 –

50 –

51 –

52 –

53 – 4.95 – R 4.25 (3)
(at 53 fallen – at least approximate)

54 – 3.37 – R 2.28 – 5 3.67 (8)
(on wall, but not at base)

KEUFFEL & ESSER CO., N.Y. NO. 359-14L Millimeters.

J-11
plan

J-11
(2)

Str. J–11.

A - Tape measurements from Court J-2.

B - Left end J–11

Tape correction .01 per 4.00m.

17 – 2.19 from 18 (decimated)

18 – .52 (19) 2.20 (17a)

Plinths of J–12

1 – 1.47 (5), .91 (a).

1a – 1.63 (A) 4.32 (b) 6.40 (E)

2 – 1.87 (A) 2.98 (b) E

2a – 1.09 (5) 1.87 (6)

3 – 1.60 (A) 3.13 – (b) 3.39 (2)

4 – .83 (2a) 1.93 – (6).

5 – .39 (A) 7.27 (E) 2.03 (b) 1.59 (12)

6 – 1.07 (A) 7.24 (E) 1.22 (5)

7 – 1.55 (3) 1.19 (5)

8 – .41 (A) 1.41 (3)

9 – .52 (A) 2.15 (2)

10 – 1.08 (b) 4.59 (11a) of J-12 on stump at corner

1.88 (A)

11 – 1.48 (b) 9.00 (E) 5.92 (7)

12 – 3.98 (b) 8.05 (E)

13 – 1.90 (A) 2.18 (b)

14 – 2.16 (A) 2.10 (13)

15 – 3.32 (A) .99 (17a) 6.57 (9)

16 – 4.40 (A) 1.31 (15) 1.12 (17a) 5.53 (9) 24.20 (21) .27 (20)

17 – 3.48 (9) 7.42 (5)

18 – 4.93 (A) 2.01 (17a) 5.89 (9) 26.54 (19) 2.64 (17a)

19 – 2.23 (17a) .52 (18)

20 – 2.27 (18) .51 (17a)

21 .35 (20) 3.16 (b)

22 .39 (19)

23 – .17 (22)

24 – .27 (20)

25 – 4.23 (5) 7.79 (E) 7.41 (b)

27 – 2.45 (5) 6.83 (b) 2.51 (23)

1			
2	a – 7.71		
3			
4	a – 5.32*		
5	a – 5.94		
6	a – 5.23		
7	a – 4.73		
8	a – 4.47		
9	a – 5.06		
10	a – 5.83 (9)		
11	a – 5.10		
12			
13			
14			
15			
16			
17			
18			
19			
20			
21	5 – .35	37 – 2.09	
22	6 – .34	23 – .17	
23	a – 5.40	6 – .43	
24	a – 5.31	9 – .44	
25			
26			
27	a – 5.52		
29			
29			
30			
31			
32	a – 8.20		
33	a – 2.05	32 – .72	
34	a – 8.22	33 – 3.05	
35	a – 8.49	34 – .79	
36	a – 8.00?		
37		5 – 2.14	
38	21 – .23	5.44	
39			
40			
41			
42			
43			
44			
45			
46			
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48			
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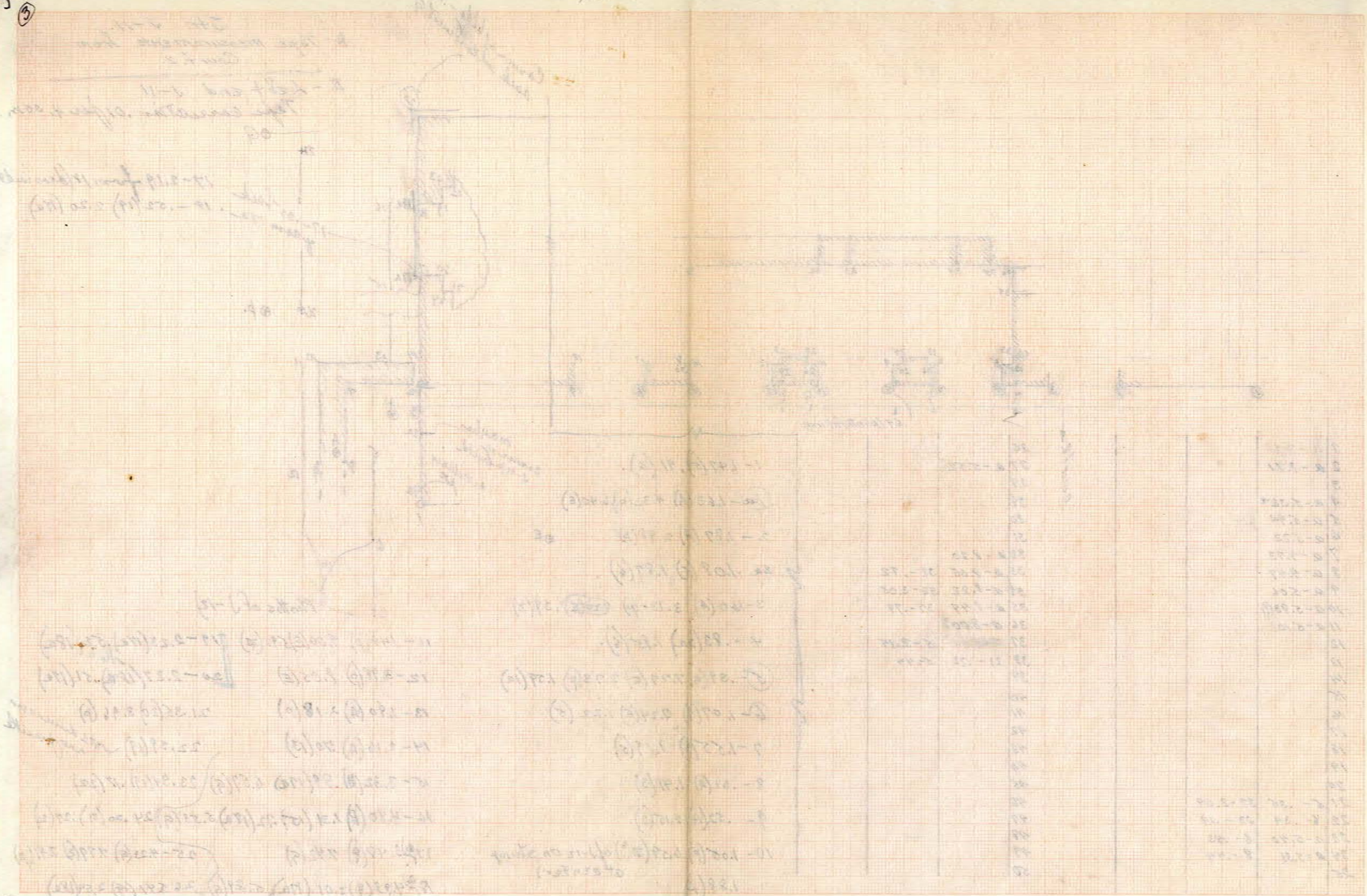
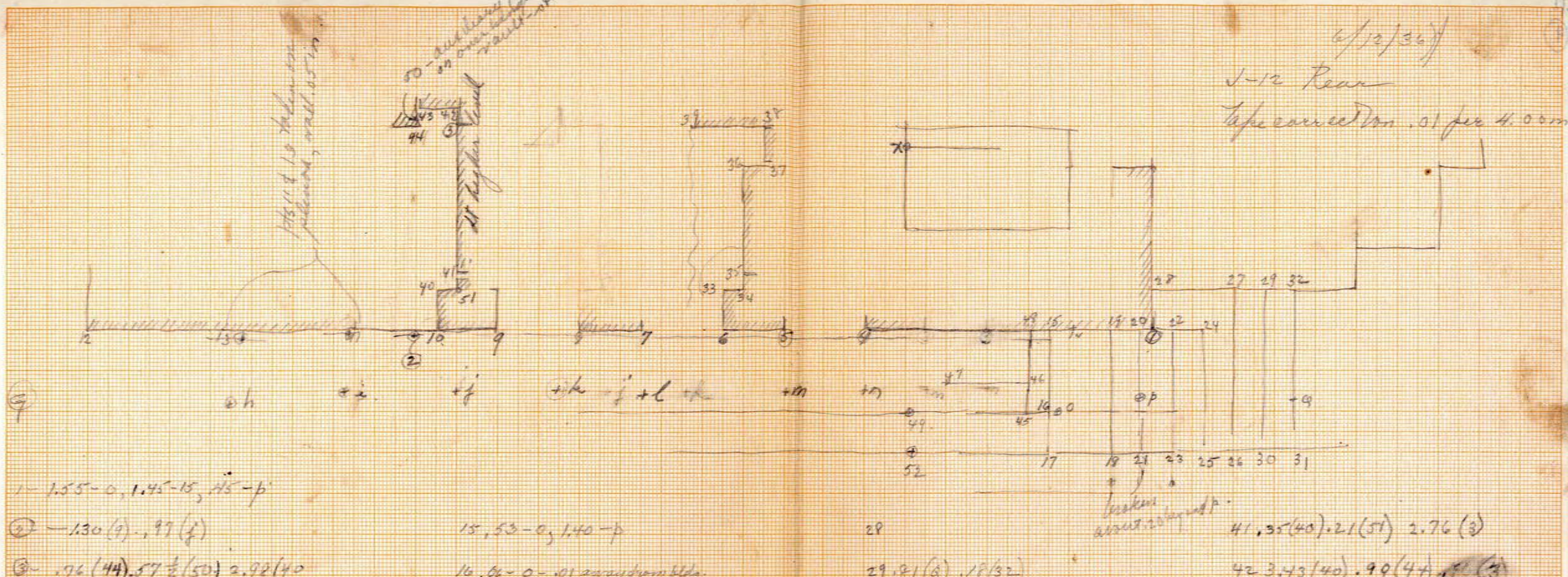
50			

KEUFFEL & ESSER CO., N. Y. NO. 340-141 Millimeters

J-11
(3)

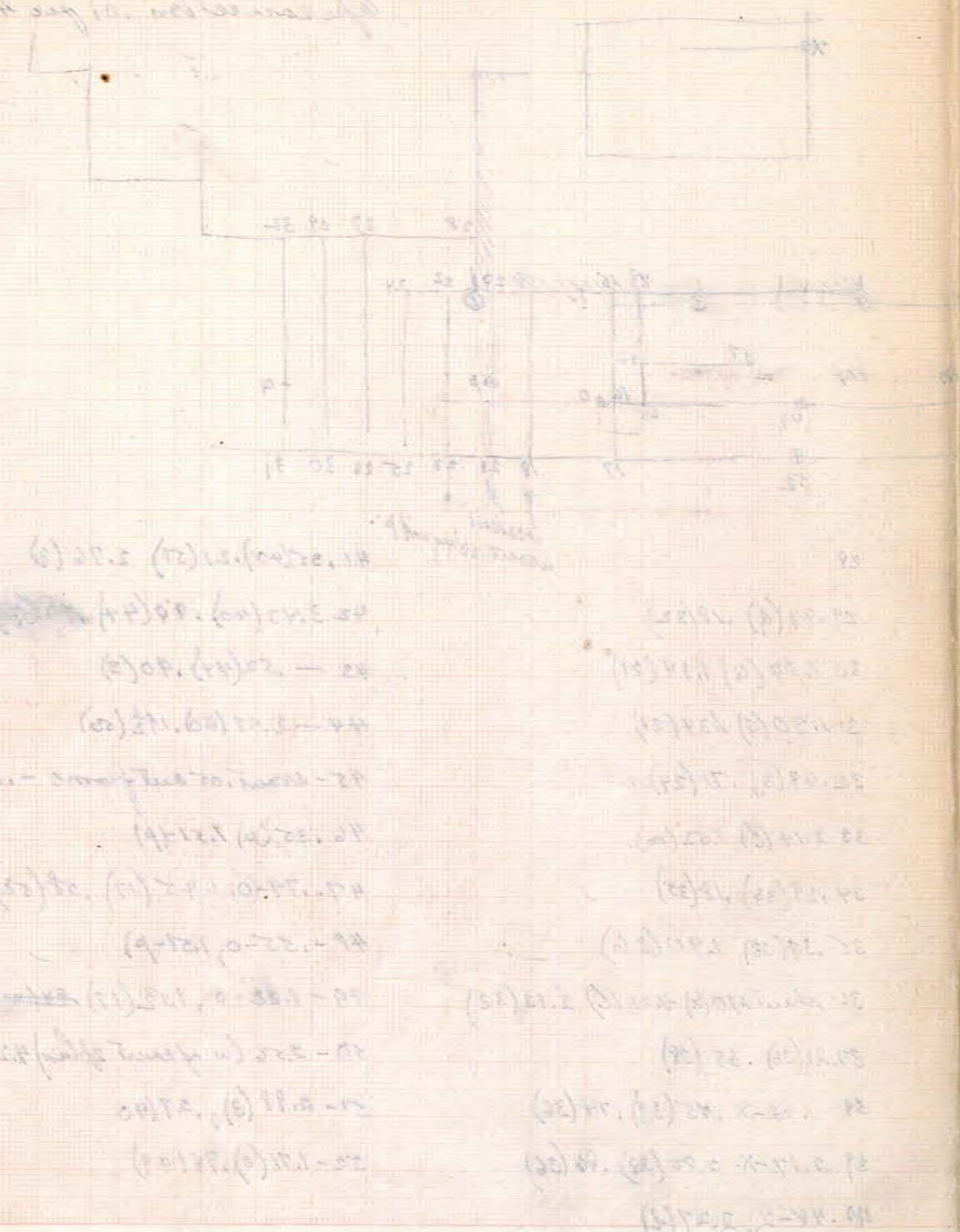
J-11
plan

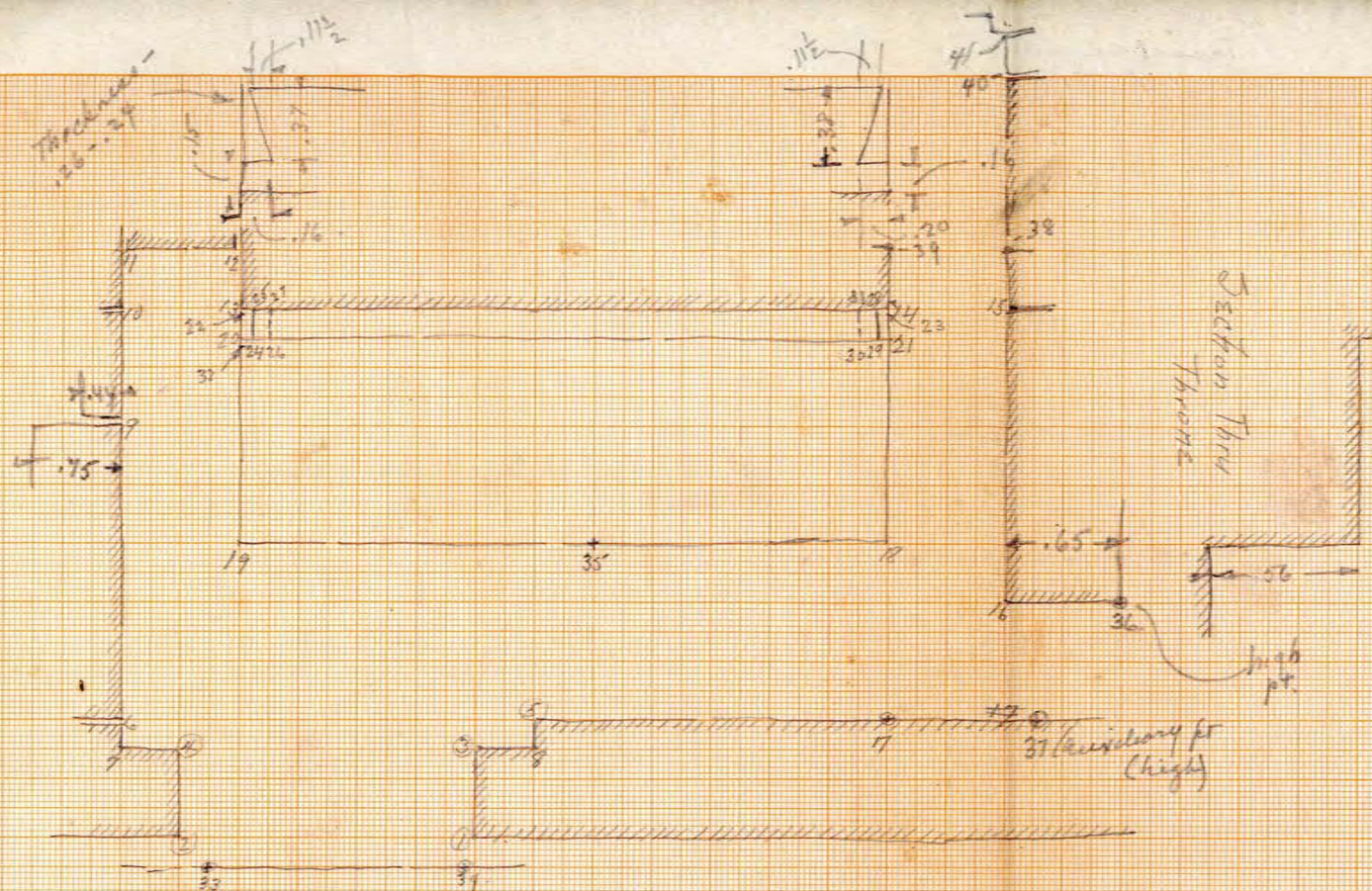




KEUFFEL & ESSER CO., N. Y. NO. 359-141 Millimeters.

V-11
plan





5/2/36

I 11

Dimensions in three rows.

Encircled measurements add .01 each 4 m.

1 (2.33-y) .66-m (1.87 (2) 1.93-y

2 .75(m) (1.85-n) .52-4)

3 4.36(5) (2.49-m) (1.14-n) (1.91-2) (.83-4) .50(34)

4 (.22-m) (2.07-n)

5 .26-3, 1.84-19

6 4.37 (4) (1.88-9)

7 1.21-m; .29-4, .19-6.

8 .20-3, .16-5.

9 3.26-m (1.05 (20) (1.15 (19)

10 4.01-m 2.62-16) (.88-20)

11 4.43-m 3.05 (6) 1.09-20

12 (1.84 (19) .76-11)

13 1.90-19 .81-10)

14 5.37(18) 5.5 (16) 5.73 (27-21) (1.20/38) (.82-15) 1.54(39)

15 1.97 (16) .88-21)

16 3.64(19) (2.30-R)

17 5.20 (18) 5.36 (5)

18 4.85(16) 7.10(20) 5.13 (21) 5.82 (5)

19 5.14 (9) 5.64(4) 5.74(3) 6.86 (18)
3.84-m 2.34 (n)

20 4.23(22) 5.13 (11) 6.67(4) 3.89-m (3.86-16)

21 4.27 (24) 6.97 (20) 7.14(19) 8.52(4) 5.2(m) 1.45-16

22

23 4.22 (21)

24 4.19 (25) 4.29 (Concrete floor)

25

26 4.16 (20)

27

28

29 4.22 (28) [29a (on floor face) 4.26 (28) 4.05 (29)]

30 4.19 (21)

31 4.18 (23) 4.31 (21) 4.26 (30)

32

33 (.99-m) 1.77-n

34 2.28-m .61-n (1.75-33)

35 5.39 (18) 5.22 (5) 1.46 (19)

36 .88-37 .67 (16)

37 - .82-16 4.09-18

38 - 2.69-16 1.40-21 .72-15

39 .77-38 (1.20 (21))

40 - 4.49-16

41 - (5.34-14)

44
5.39
6.83

6.97
6.86

KEUFFEL & ESSER CO., N. Y. NO. 340-141
Millimeters

J-11
(5)

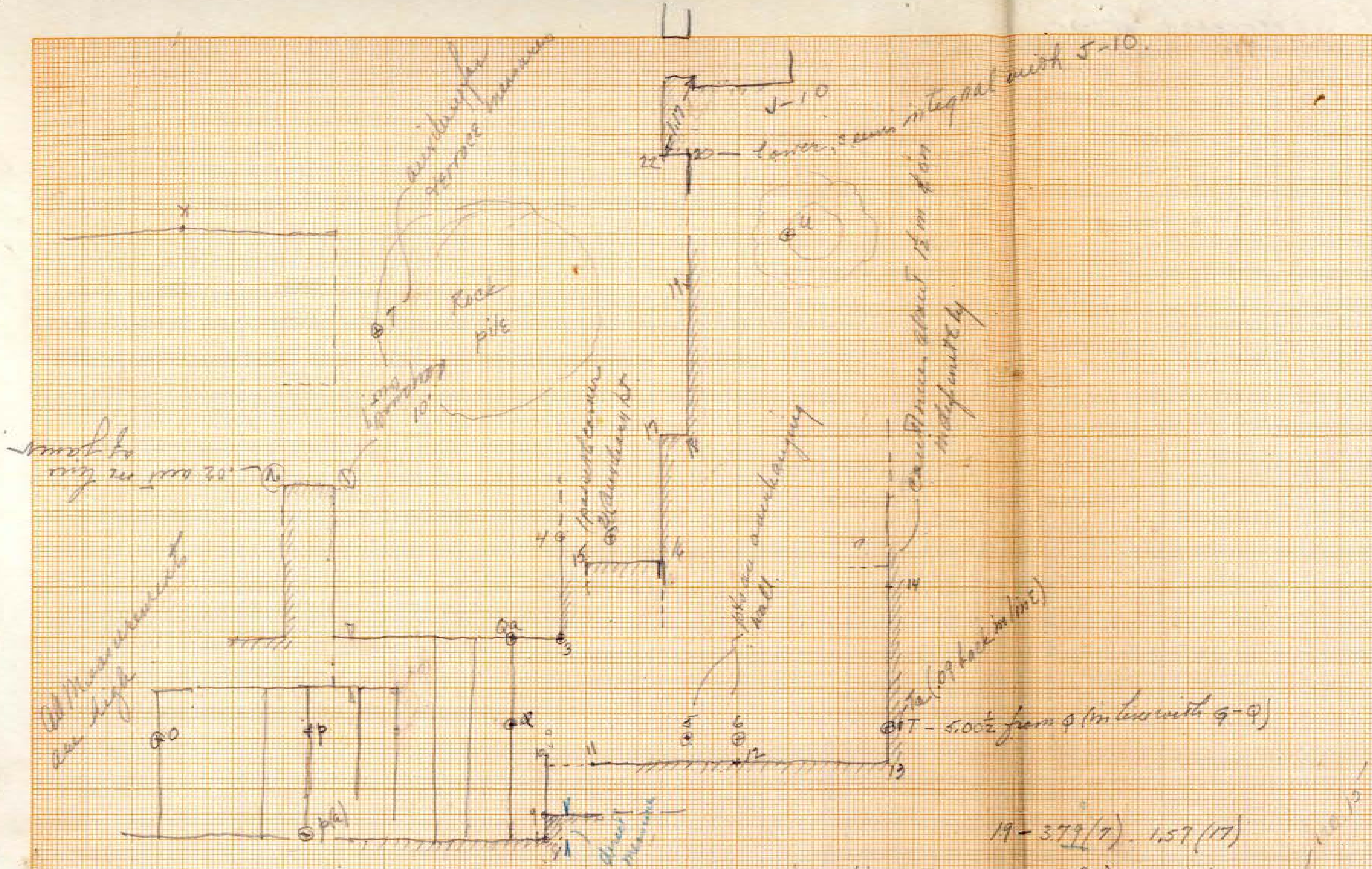
J-11
Thrust sec.
plan

6/15/36

J-11.

Tape correction .01 per 4.00m.

Right end of J-11 & Line ace at rt.



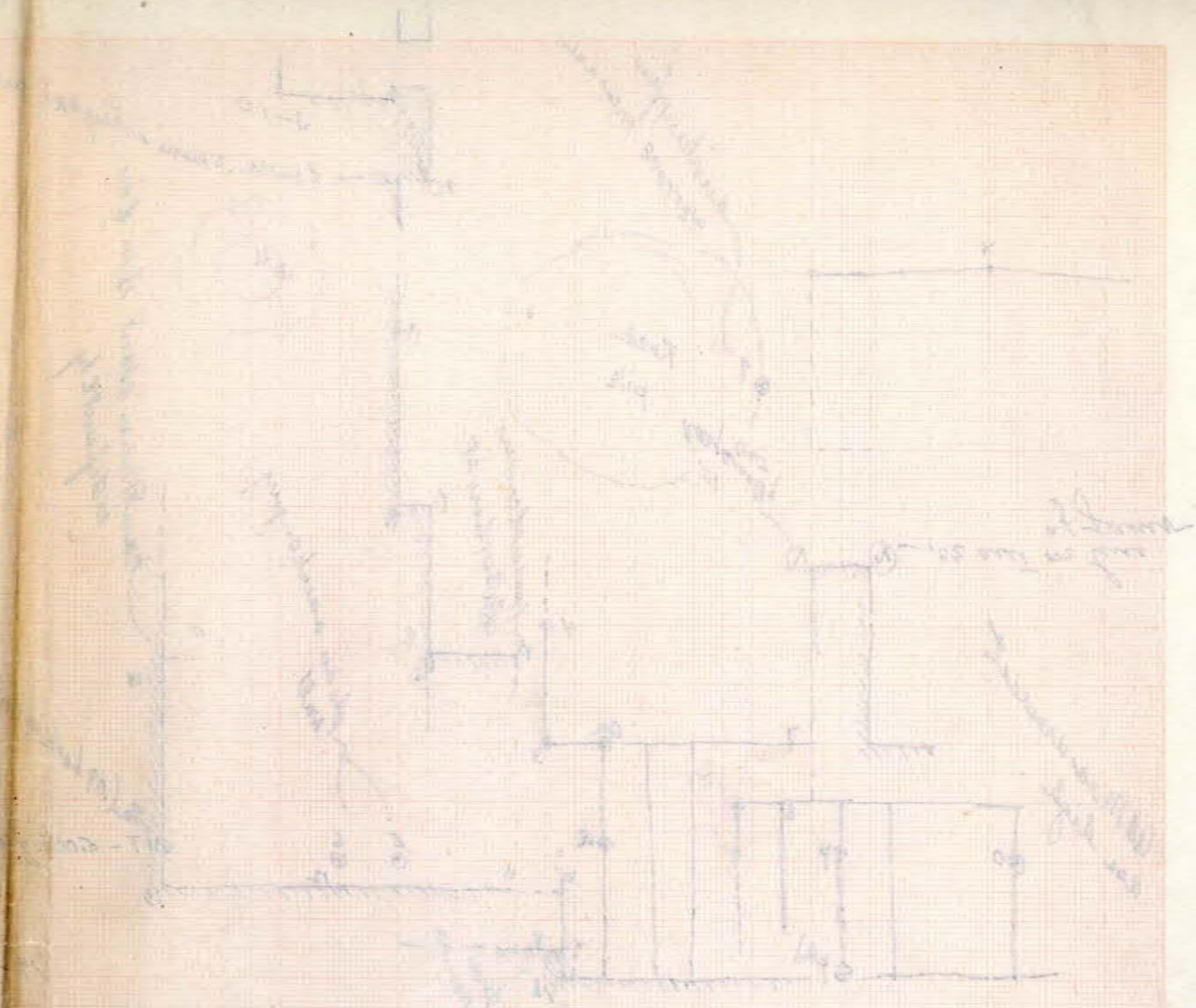
1-3.26 (Q) 5.01 (U)-on chicken tree. 5.39 (X-point on front wall) 2.56 (7) 2.26 (21)
2-3.49 (Q) 5.49 (U) 2.92 (pt. on jamb of medial wall). 1.52 (1)
3-4.55 (T) .89 (Q)
4-4.81 (T) 1.96 (Q)
5-3.09 (T) 5.92 (U-chicken tree) 6.56 (7)
6-2.31 (T) 6.94 (7)
7-4.52 (U) 5.73 (Q) 5.66 (R)
8-1.46 (Q) 1.74 (pa)
9-1.44 (Q) 2.06 (5)
10-1.53 (5) .64 (Q)
11-1.12 (5) 1.04 (Q) 1.52 (Qa)

12-2.77 (Q), .35 (6)
13-2.33 (6), .68 (T)
14-1.24 (Ta) 3.50 (5)
15-.35 (4), .35 (21)
16-2.46 (17) .77 (21)
17-2.25 (21) 3.37 (7), 3.09 (1)
18-1.40 (1) .30 (17)

19-3.79 (7). 1.57 (17)
20-.36 (22) 3.88 (17)
21-2.81 (6) 2.28 (Q). 4.36 (7). .52 (4)
22-2.53 (U) 8.39 (R) measurement off the tape not very tight
2.34 from left rear corner of nearest J-10 piece
Stone is falling out & maybe .10 out of line
8.38 (Q)

J-11
(6)

J-11
terraces at rear
plan



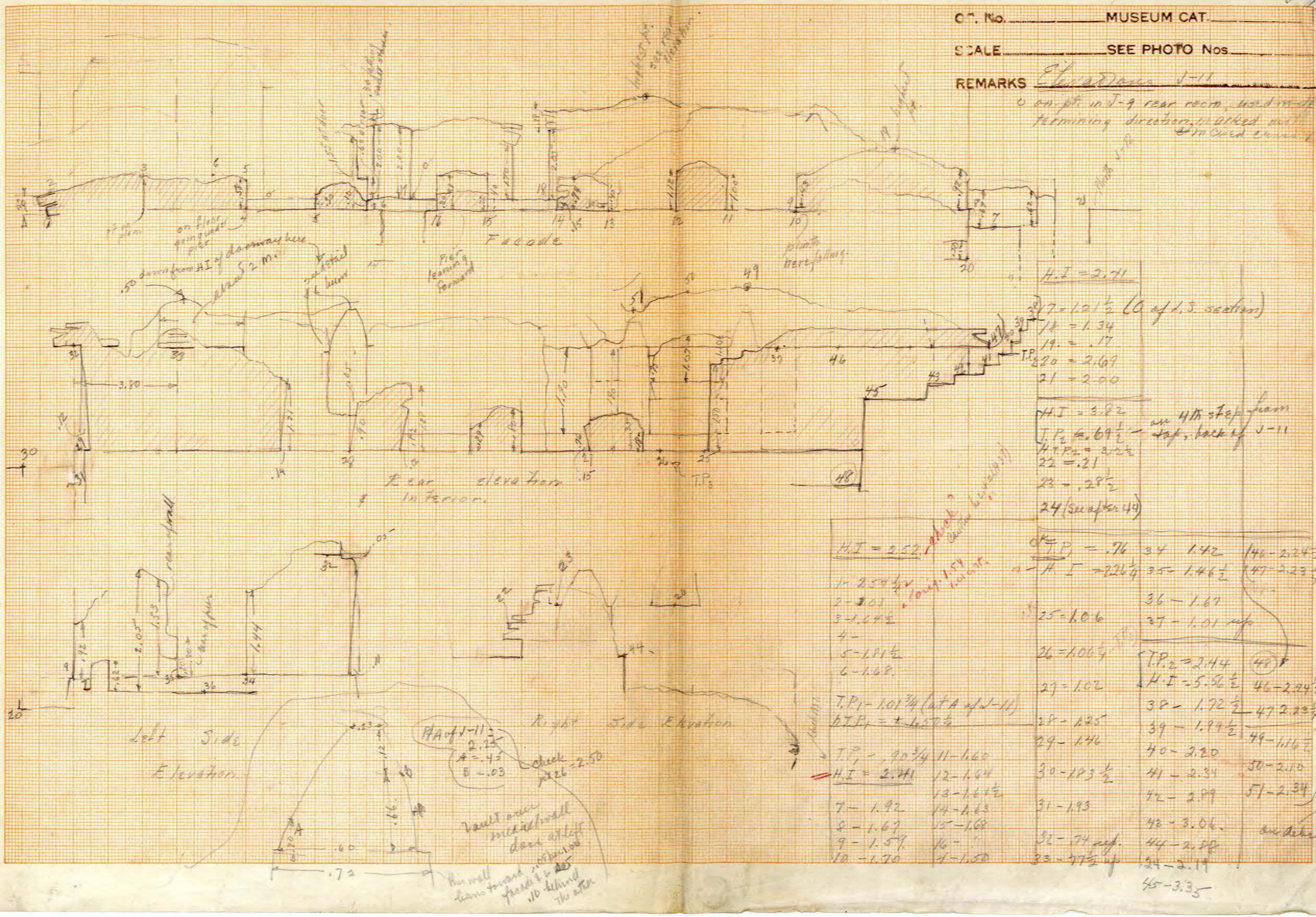
PIEDRAS NEGRAS 6/17 193 4 STR. J-11

CT. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Elevations J-11

Datum on floor in J-9 rear room, used in determining directions, marked with X on floor stones



KEUFFEL & ESSER CO., N. Y. NO. 350-141 Millimeters

J-11

(1)

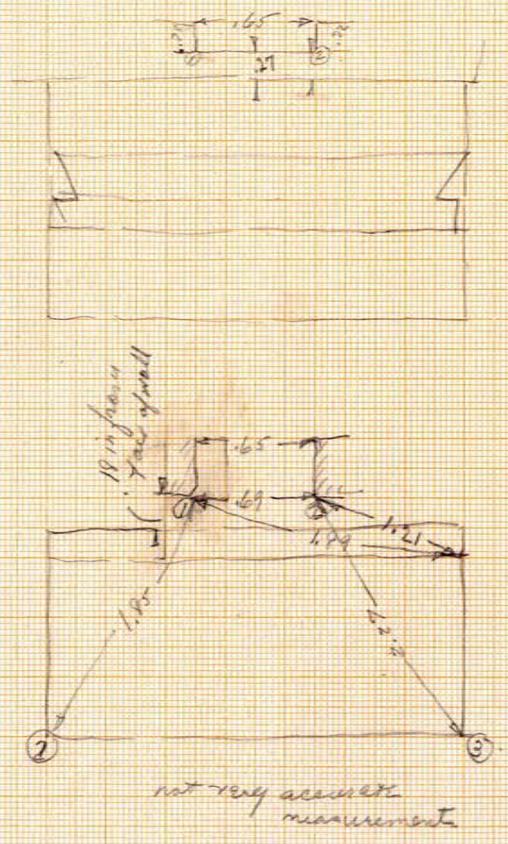
J-11
Section

6/21/36

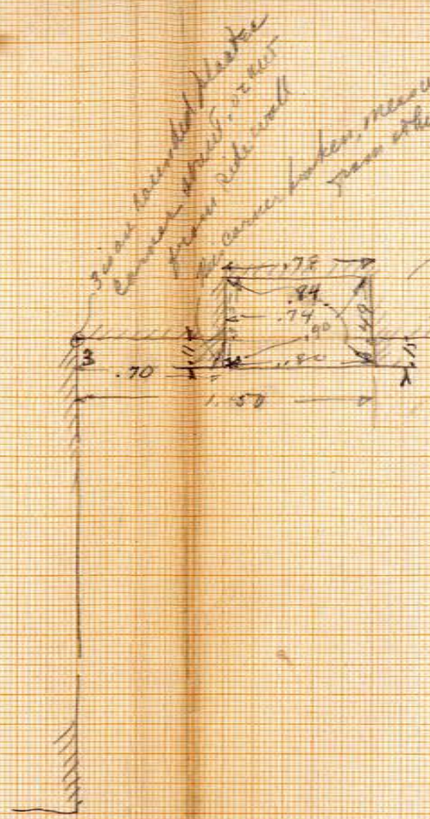
A-11

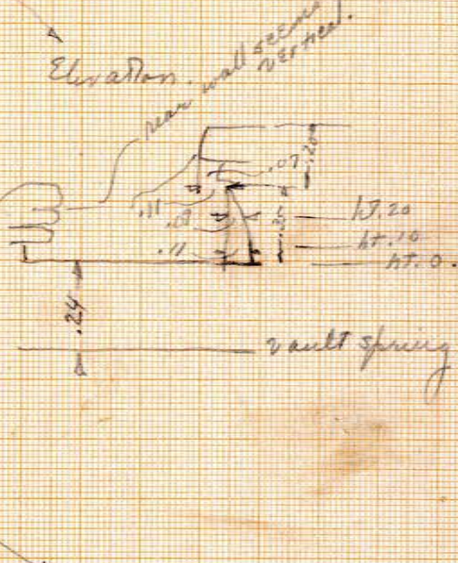
Vault niches

Stone room niche

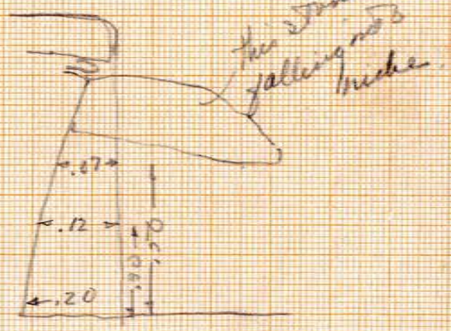


not very accurate measurement





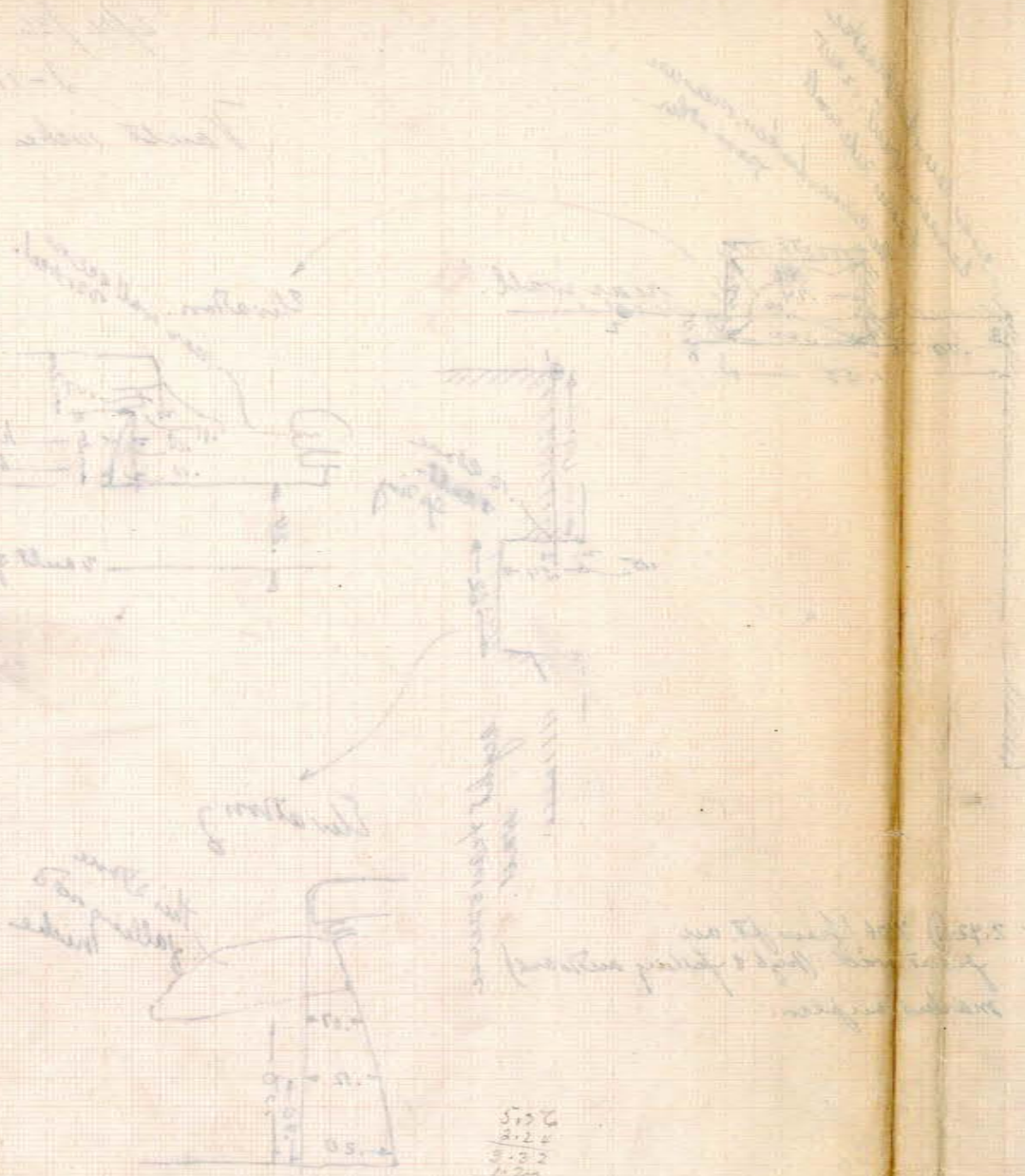
3 - 2.42 (1) 7.06 (from ft. arc
front wall (high & falling outward)
marked on plan

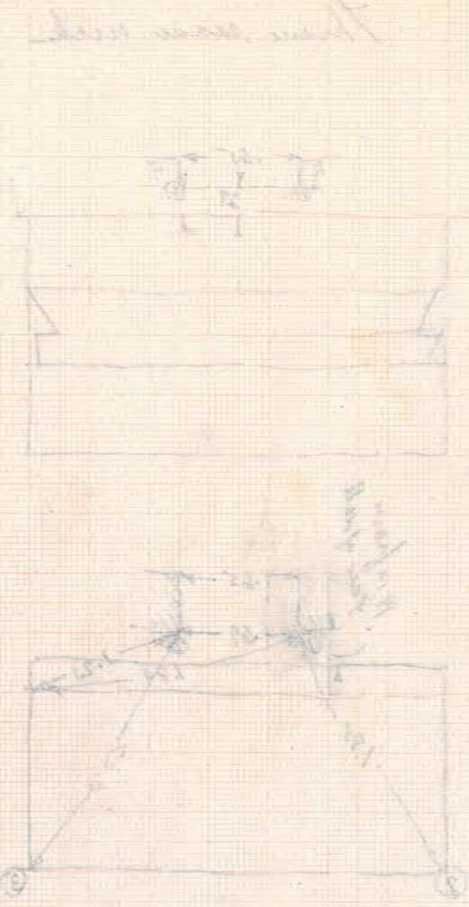


KRUFFEL & ESER CO., N. Y. NO. 350-1AL
Millimeters.

J-11
(8)

J-11
details





Section looking to abse
vault opening at medial
wall - at vault springing
no offset visible
Cut stone pilaster - Medial
wall here has offset of .05.

Medial wall

.58

.11

.10

.27

.09

.16

.25

.15

Left transverse wall

.87

.87

1.02

This is
near end
of doorway

2.89

Inner wall

Offset
indistinct

6.11

2.63

Pendentive

Carried along measurements
.04 per 10 m.

heights along medial wall - from facade

2.20

.60

1.75

2.00

2.00

1.70

1.45

1.81

+.20 - .30 springing

Sectional
standing wall

1.03
77
26

J-11.

6/18/36

Left wall of front central room

4.09

.73

.30

1.03

.90

2.26

.30

Slight offsets
103 to 105
(none at face
of vault)

.75 (vault springing 160)

about

.11

.30

.50

.28

.25

.30

.34

Vault
stones to
face as out 30

The stone
elements layed
into medial wall.
Its bottom is somewhat
lower than top of
second dump pad.

Level
probably fallen

KEUFFEL & ESSER CO., N. Y. NO. 359-14L
Millimeters.

J-11
(9)

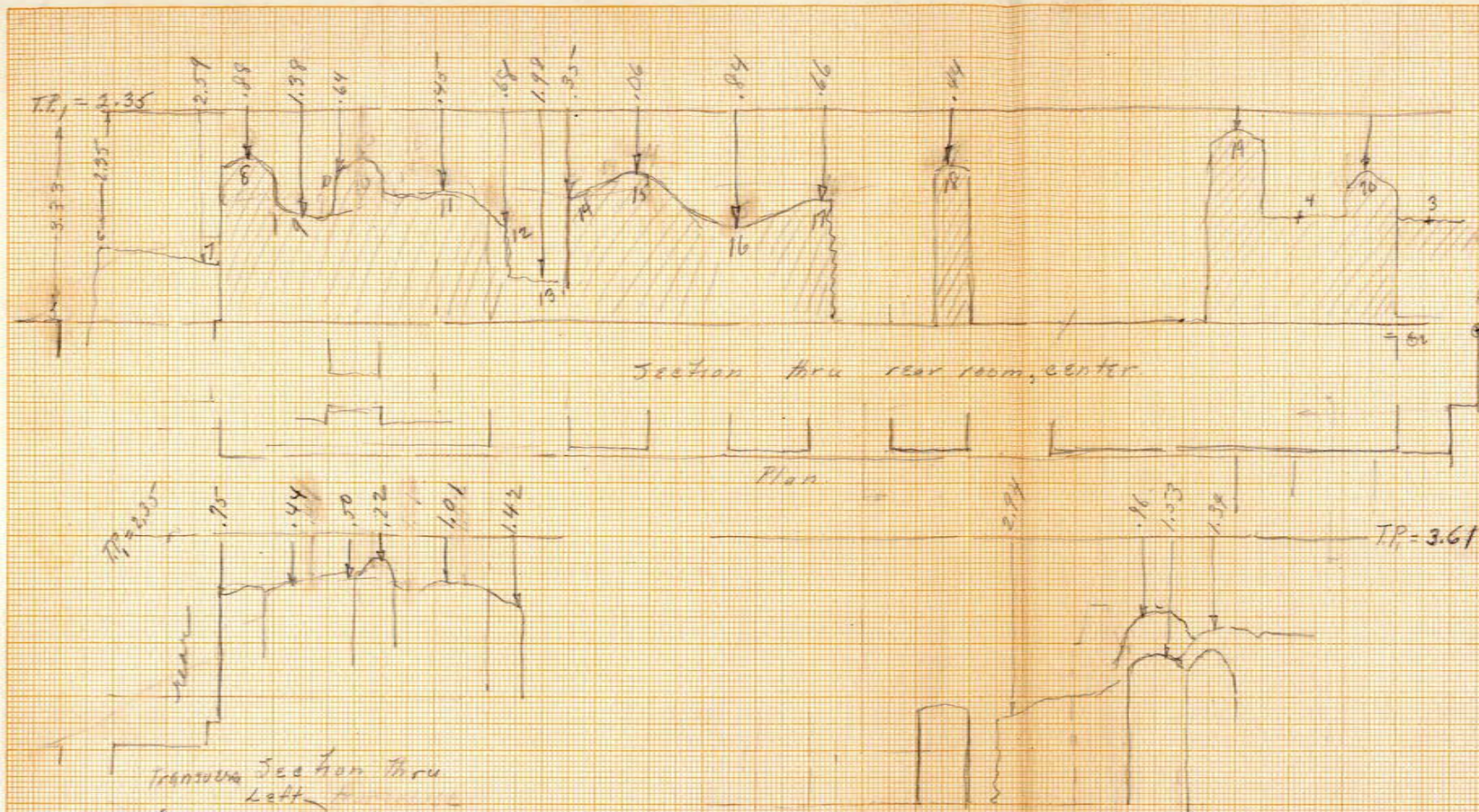
J-11
plan & sections

PIEDRAS NEGRAS 6/17 193 4 STR. J-11

OP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Plotted sections



H.I - 5.36½ (T.P.2 - 2.44)

1 - 3.04 near terrace

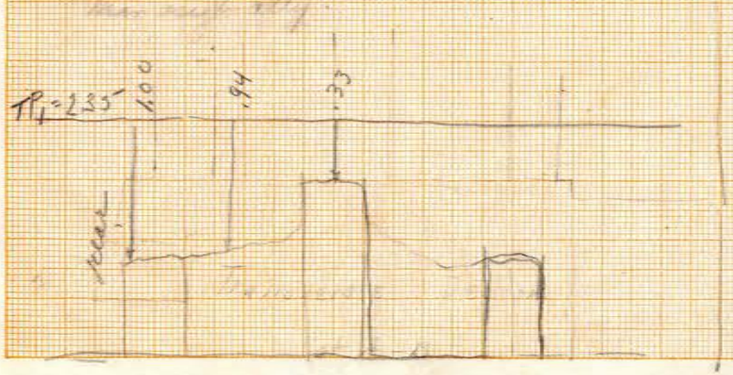
1 - 3.22½ in central doorway.

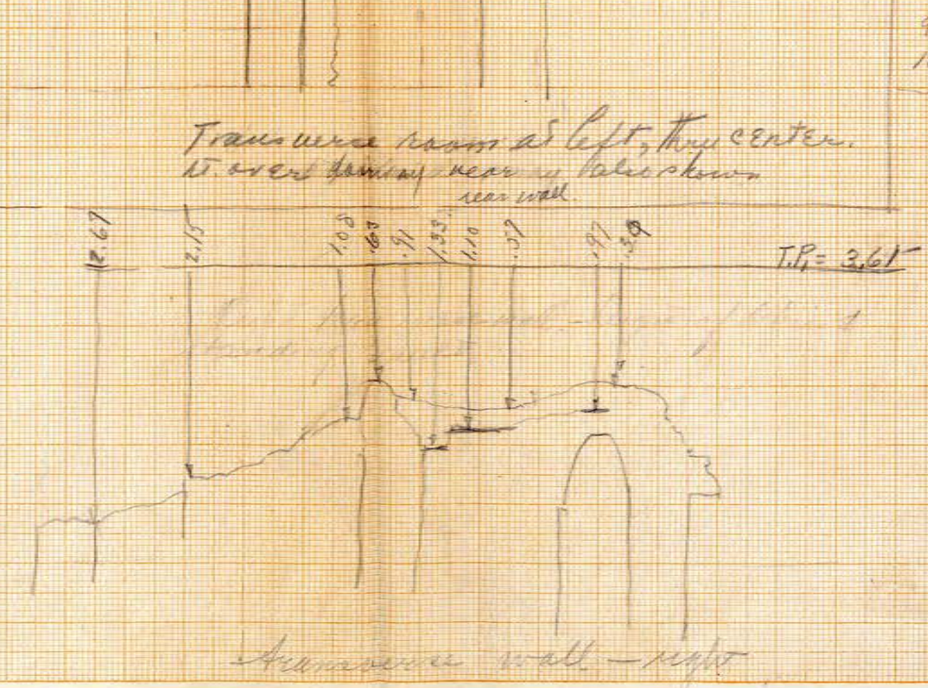
3 - 2.49.

④ - 2.64.

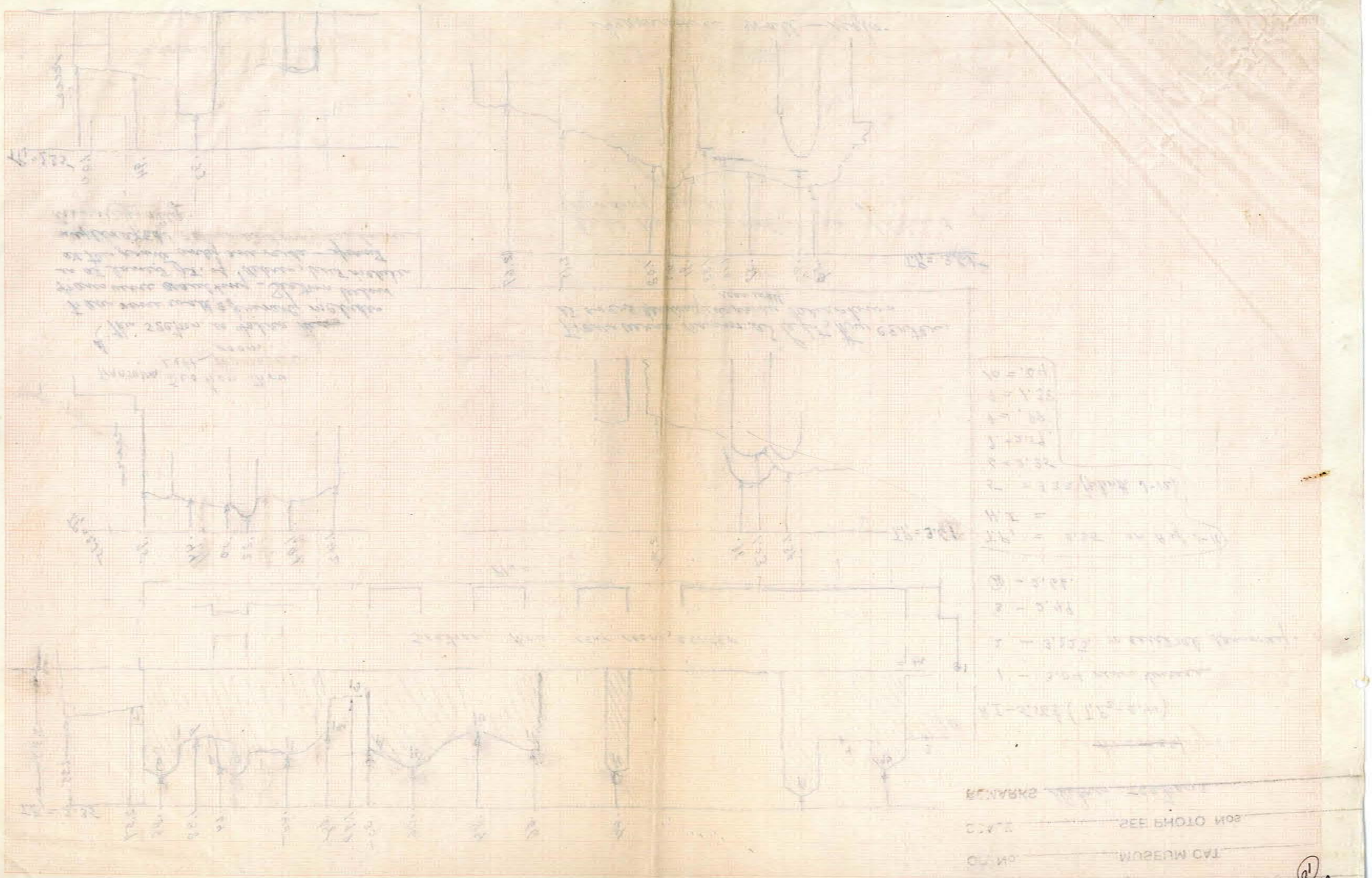
T.P.1 = 2.35 on Rof J-11)
H.I =
5 = 3.33 (plinth J-12)
6 = 2.35
7 = 2.59.
8 = .88
9 = 1.38
10 = .64

A This section is taken near transverse wall & purposely includes transverse vaulting - Section below is at lowest pt. of debris, but includes at this point only one side - front excavated.





KEUFFEL & ESSER CO., N. Y. NO. 358-141
Millimeters

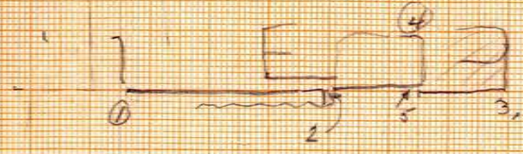


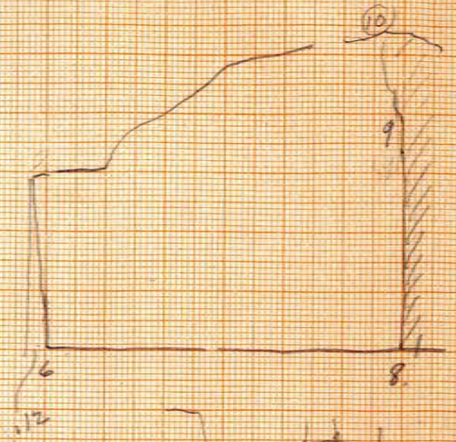
PIEDRAS NEGRAS Apron 193 7 STR. V-11

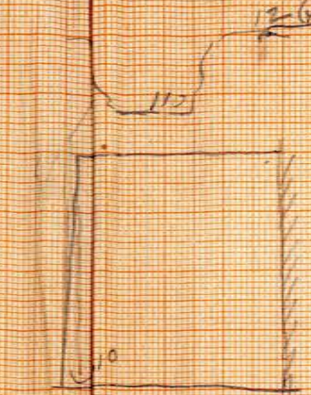
CT. No. MUSEUM CAT.

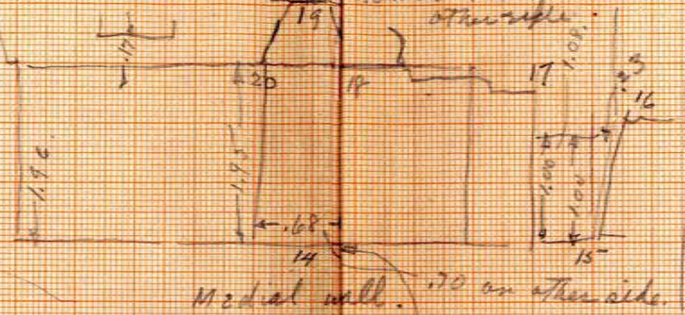
SCALE SEE PHOTO Nos.

REMARKS Section in right foreground









0 on T.P.$_3$ (326) = plumb northeast rear.

H.I = 1.57.

P = 1.43.

13 = 1.48

9 = .53½ up.

10 = 1.02 up.

11 = .99 up.

12 = 1.44 up

9 = .51½ up.

1 = 1.60

2 = 1.52

14 = 1.54

15 = 1.56.

17 = .18 up.

18 = .36½ up.

19 = .78 up.

20 = .41½ up.

3 = 1.52½

4 = 1.16

5 = 1.45

6 = 1.50½

7 = .09 up.

21 = .98

22 = .98

23 = 1.29.

Medial wall. 170 on other side.

This break approx line of medial wall.
med. wall = .9' thick.

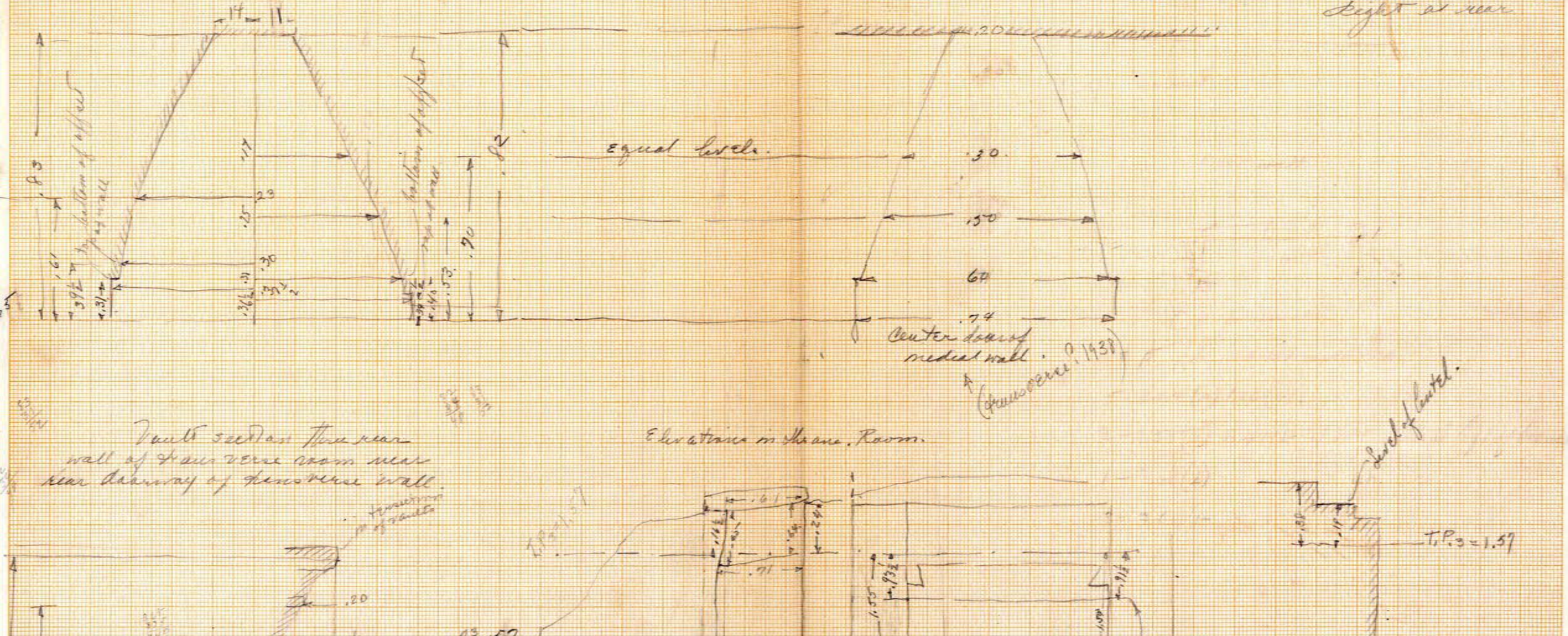
J-11

J-11
(11)

Longitudinal vault section thru medial wall & its end doorway.

J—11
6/17/36.

Vault sections—
Right at rear



Vault sections thru rear wall of transverse room near rear doorway of transverse wall.

Elevations in Throne Room.

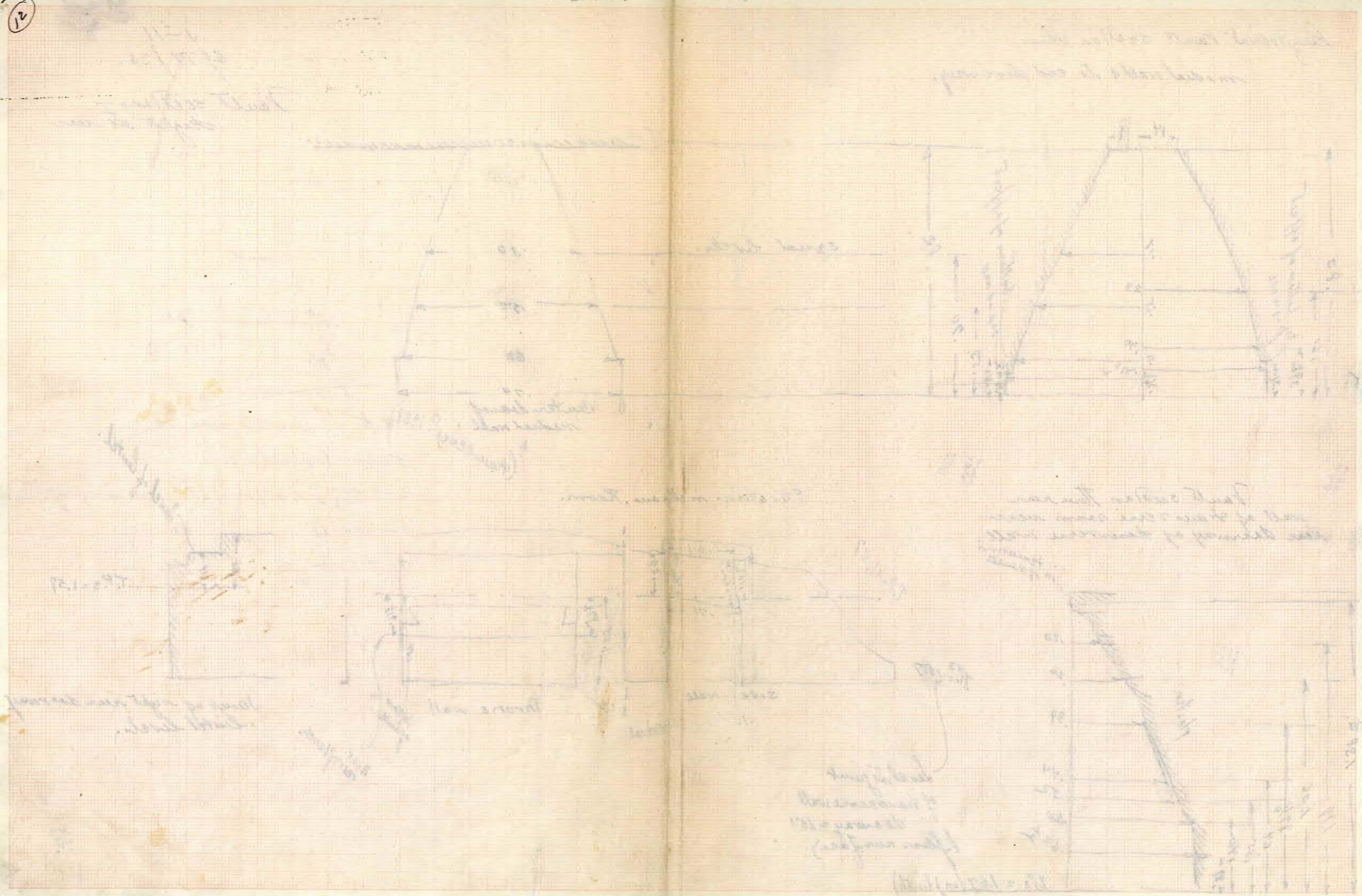
T.P.3 = 1.57 (inside finish)

Level of joint of transverse wall doorway = 1.57 (floor surface).

KEUFFEL & ESSER CO., N. Y. NO. 289-141
Millimeters.

J-11
12

J-11
Sections



PIEDRAS NEGRAS 6/17 193 6 STR. J 4 18

CP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Vault Sections & Cornice Details

Right front room

Right rear room

Reversed plan at A B.

Medial wall

Rear wall.

Section K-L

Section C-D (or stone except where plaster is indicated)

Section A-B.

(on rear plinth-2.5 ft.)

Section J-I

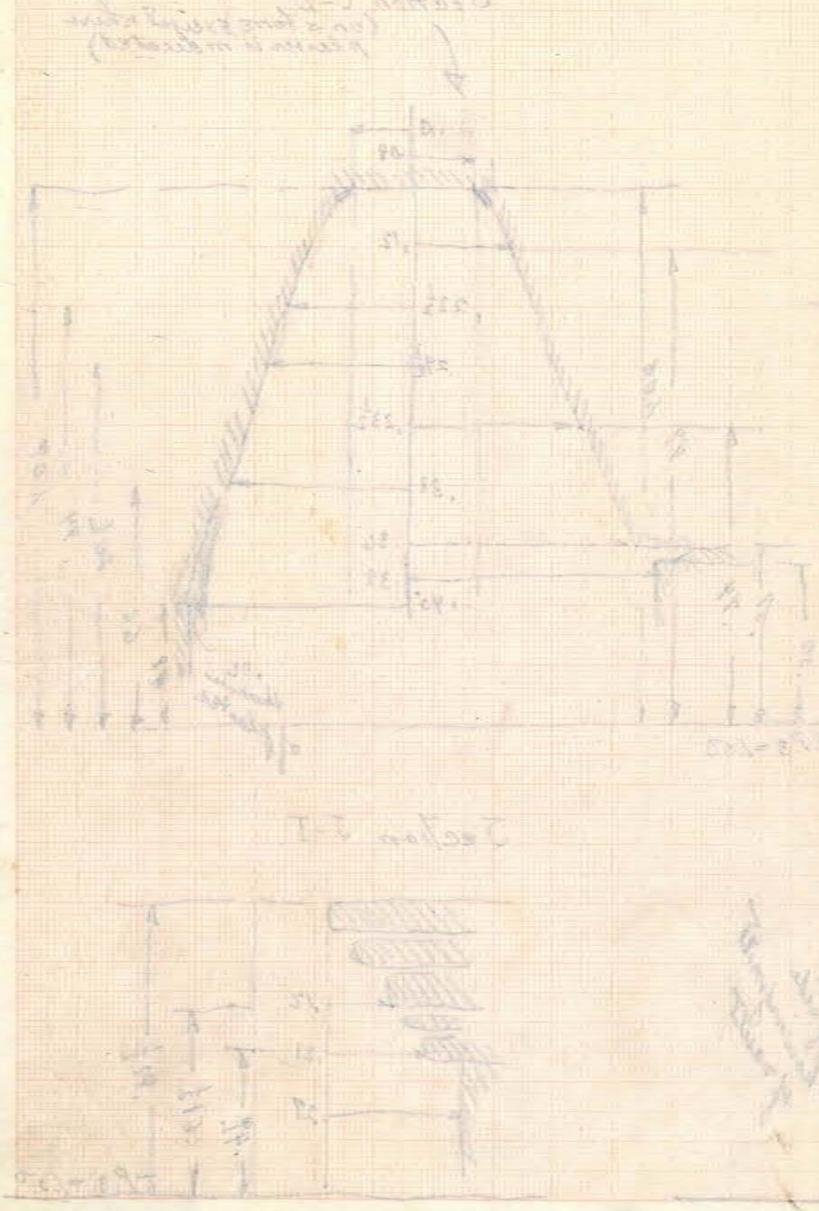
T.P. 3 = 1.50

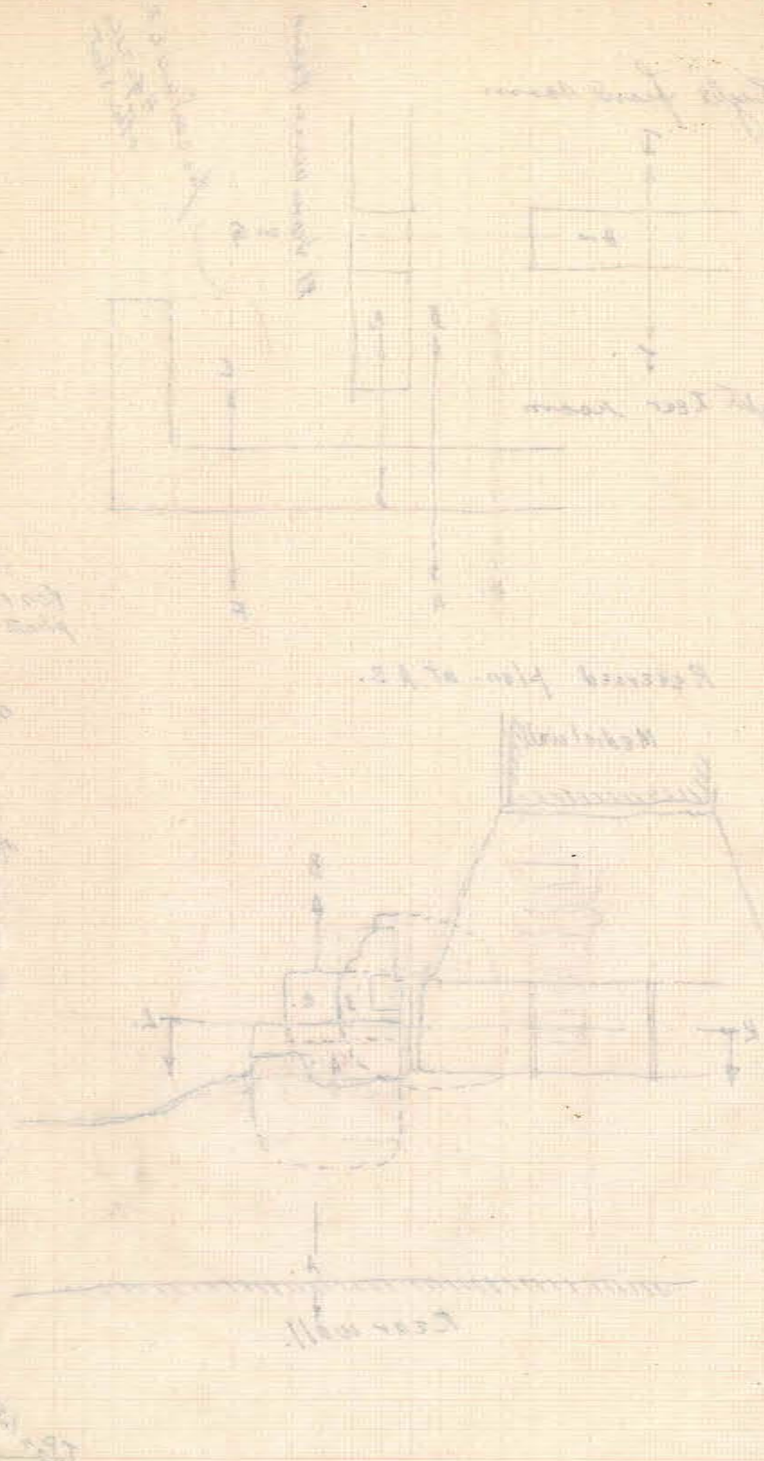
plaster

KEUFFEL & ESSER CO., N.Y. No. 350-141 Millimeters.

J-11

Vault details

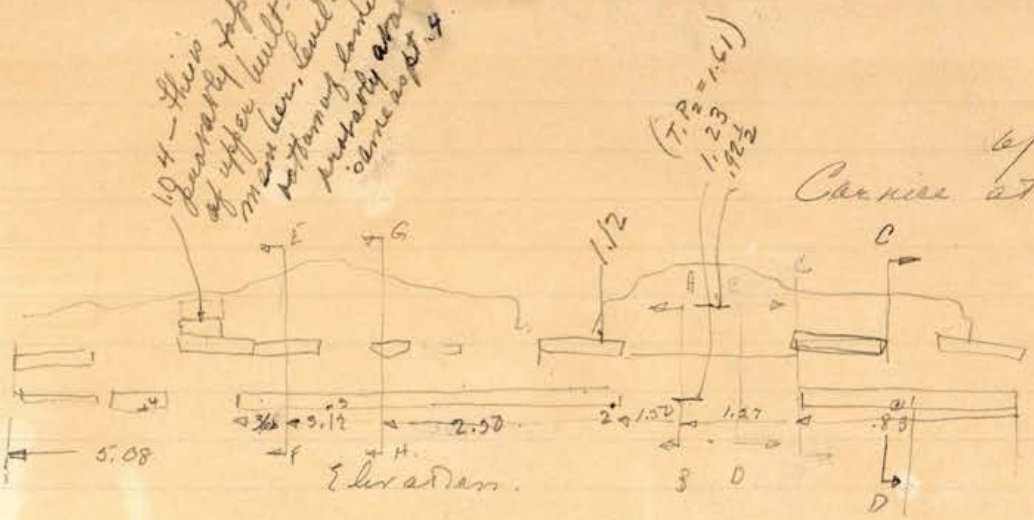




J-11
(14)

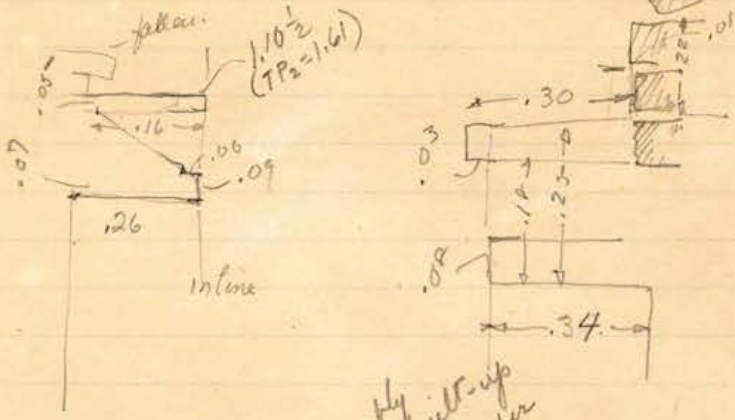
J-11
6/18/36.

Cornice at rear



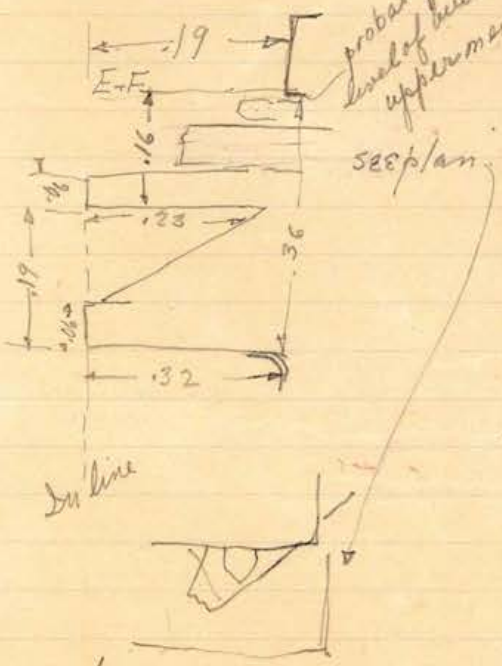
- upper zone in best condition at AB & CD, where cornice is missing.

Section C-9.
well preserved. slope at rear lower member.



Levels

T.P₂ - on step = 1.61
see elevation
1 - 1.38
2 - 1.40½
3 -
4 - 1.47.



Best preserved section of lower course but top course & upper facade prob. cut off plan.

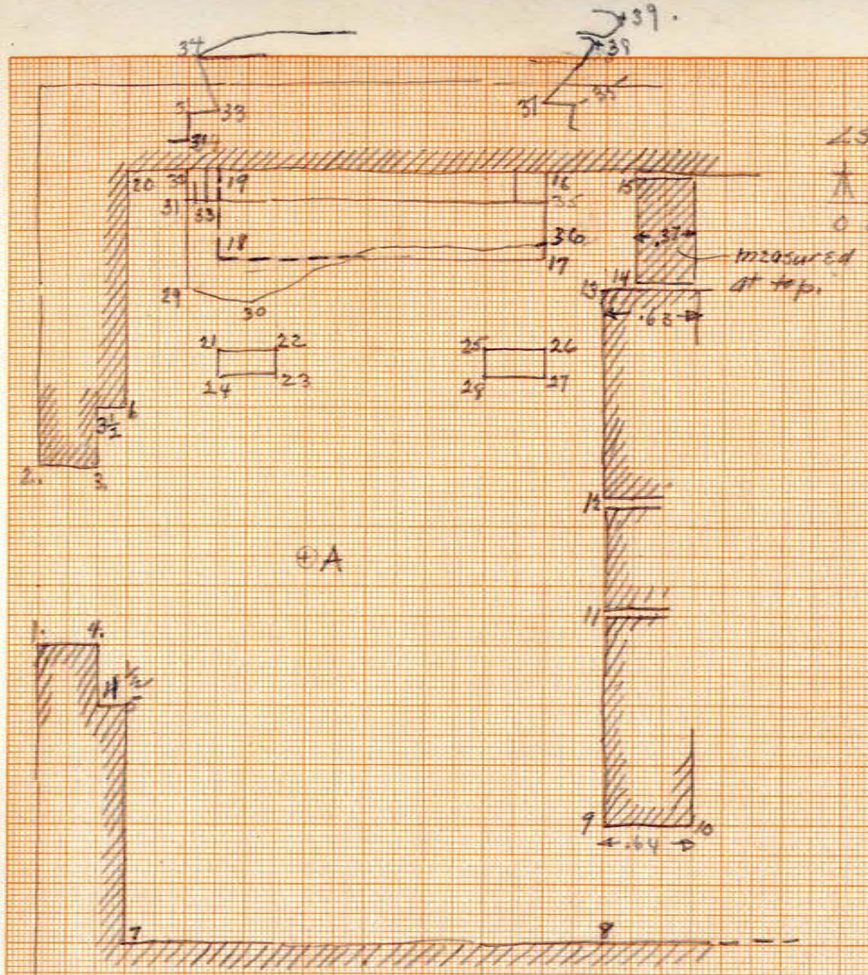
PIEDRAS NEGRAS April 1937 STR. 1-11

CO. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS End Throne-room (Facing 1-12).

All tape corrections- Add - .05.



Plan Pts.

	Ls.	Dist.	Ls.
	★ at B.		
	0 cm		
1.	2.56 (A)		
	1.97 (A)		
2.	1.95 (A)		55° 12' R (A-1)
3.	1.55 (A)		59° 23' R (A-1)
3½	1.60 (A)		67° 37' R (A-1)
4.	2.18 (A)		8° 1' L (A-1)
4½	2.40 (A)		13° 25' L (A-1)
5.	2.25 (A.		10° 2' L (A-1
6.	1.45½ (A)	~~12° 2' L (A-1)~~	72° 15' R (A-1)
7.	3.80½ (A)		30° 10' L (A-1)
8	3.65 (A)		68° 40' L (A-1)
9.	2.86 (A)		75° 3' L (A-1)
11	1.34 (A.		108° 25' L (A-1)
12	1.13 (A)		146° 37' L (A-1)
13	3.30 (A)	.26 (14)	160° 35' R (A-1)
15	3.20 (A)	.35 + (16)	.76 (14) 159° 12' R (A-1)
17	.49 (16)	.38 (13)	.85 (15) .61½ (20) 150° 20' R (A-1)
18	.66 (21)		105° 30' R (A-1)
20	.57 (18)		105° 35' R (A-1)
23	1.49½ (A)		110° 32' R (A-1)
24	1.63½ (A)		108° 37' R (A-1
27	1.69 (A)		156° 15 R (A-1)
28	1.56 (A)	.93½ (23)	146° 55' R (A-1)
29	.70 (24)		104° 12' L (A-1)
30	.50 (24)		108° 38' R (A-1)

Check on corners 1-12 per opp. door

{ 18° 30' at (A-1) corr. 5.32 (A)
{ 31° 28' at (A-1) 4.97 (A)

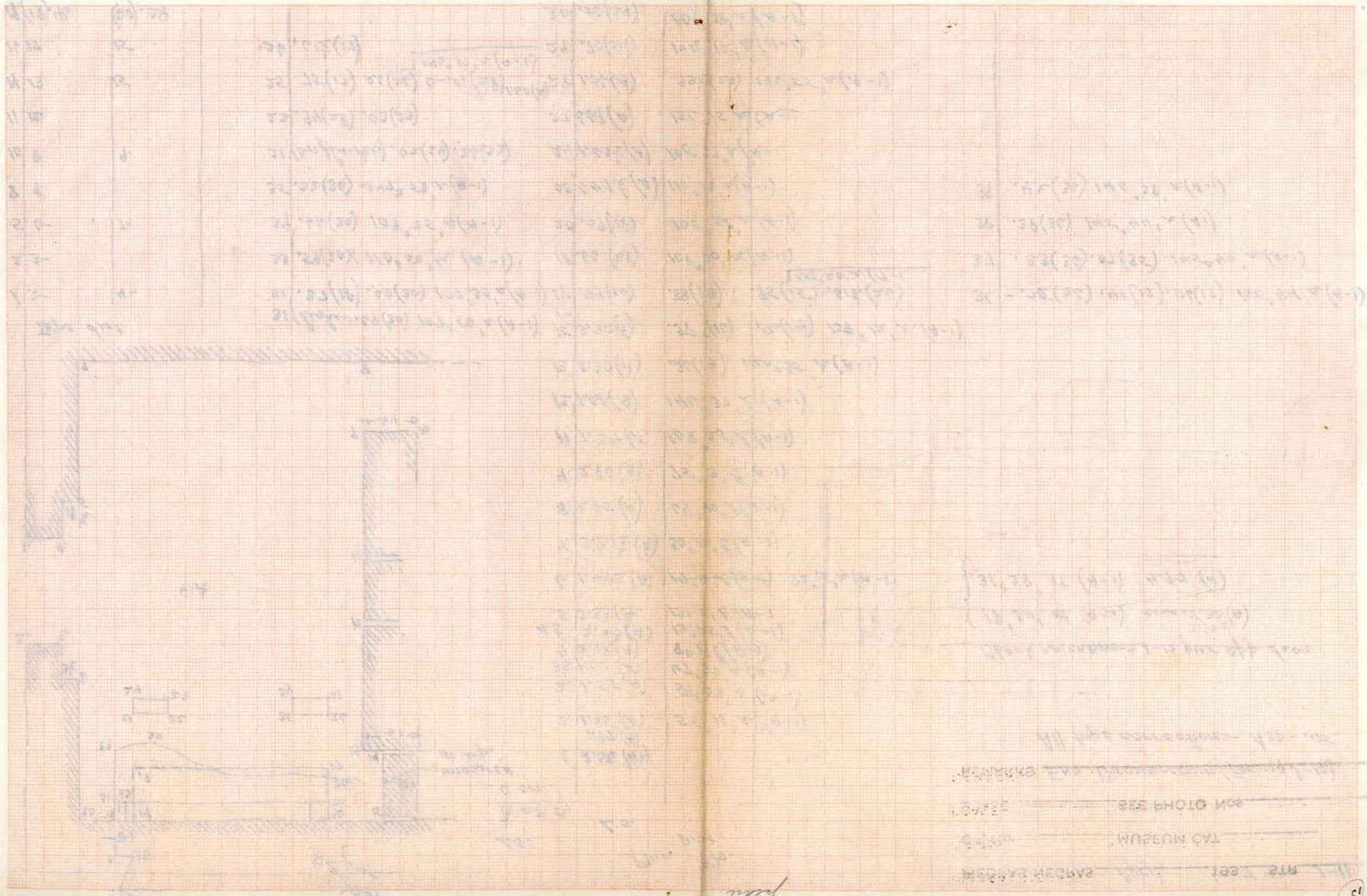
Tape dist

1	2-	4-	
2	3-		
5	6-	7-	
8	9		
10	8	9.	
11	12		
14	13	15	
16	17	15	
19	(18), 46	(20). 28	

31 (higher .64 (30) 107° 56' R (A-1)
31 .37 (18) .60 (30) 107° 38' R (A-1)
33 .59 (20) 110° 50' R (A-1)
34 .66 (30) 109° 25' R (A-1)
35 .32 (36) 147° 53' R (A-1)
21 (approx) .02 (24) .26 (23)
22 .94 (28) .03 (33)
25 .75 (17) .26 (36) 6-.21 (28) 1.60 (A) 146° 17' R (A-1)
26 .61½ (17)

36 - .72 (26) .41 (13) .06 (17) 150° 44' R (A-1)
37 .33 (36) .07 (35) 145° 40' R (A-1)
38 .38 (36) 145° 44' R (A-1)
39 .42 (36) 146° 38' R (A-1)

KEUFFEL & ESSER CO., N. Y. NO. 389-141 Millimeters, MADE IN U. S. A.



PIEDRAS NEGRAS April 193 2 STR. I-11

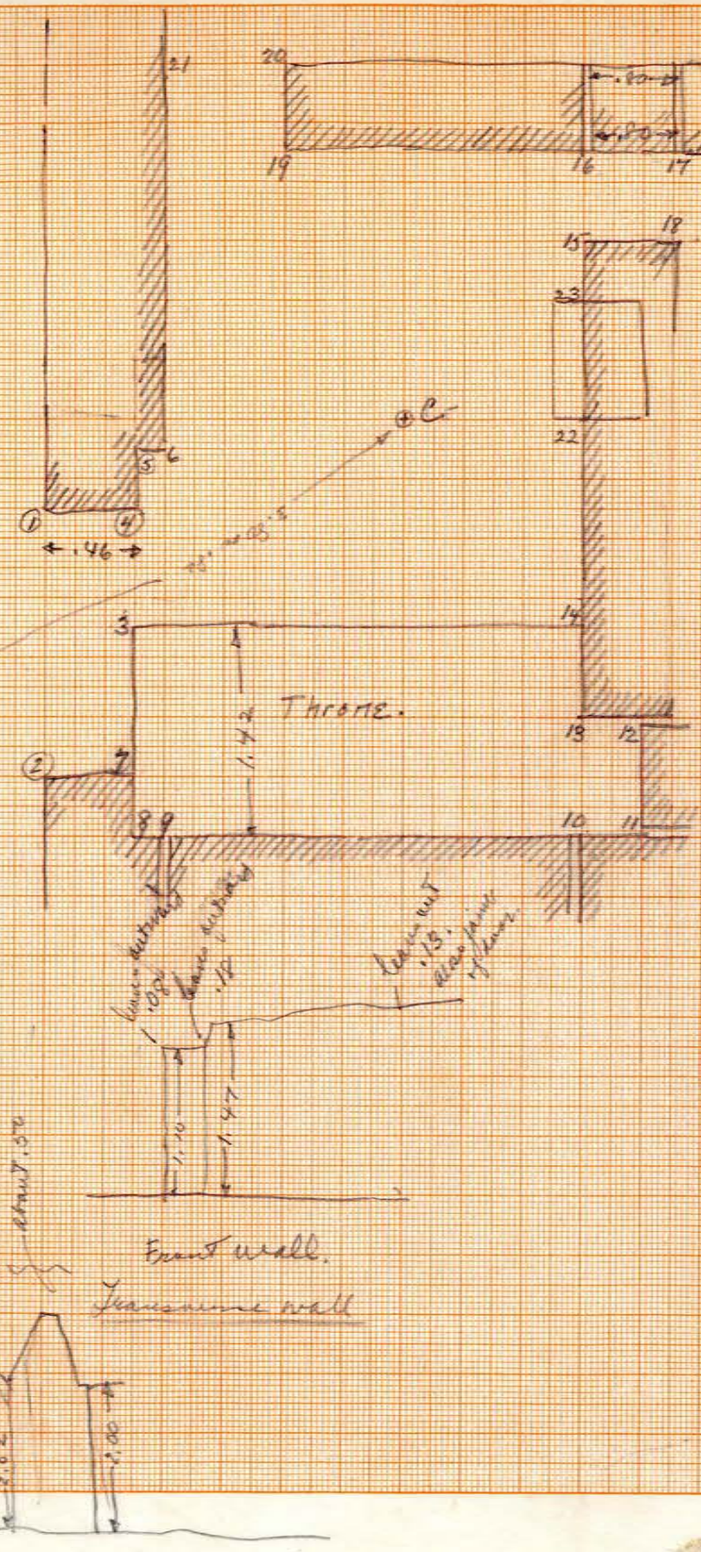
CT. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Rear Left room

Add .05 to tape measurements.

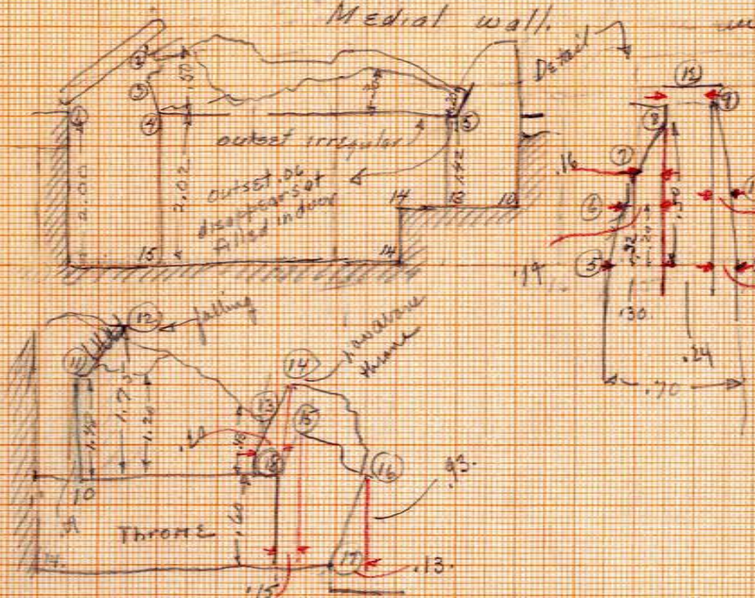
See first throne room & front transverse Left room



C =	2.21 = 2.20 (16)	2.98 (17)	2.00 (21) 4.41 from corner of throne.
	3.34 (2)	Diat from C.	.62 m 69 from wall. Inside throne room.
1.			
2	3.33 3.34		
3	2.11	0° 50' L	
4	1.54	12° 55' R	
5	.12 (6)	.23 (4)	
6	1.19.	13° 42½ R	.30 (4)
7 (high)	3.31	7° 45 L	
7 (low)	.42½ (2)	4 05 (3)	
8	.24 (7)	8° 55' L	
	3.43 (C)		
9	.15 (8)	12° 5' L	.27 (7)
10	3.97	53° 30' L	.71 (15)
11		59° 20' L.	.144 (10)
12	.46 (13)	.80 1/10	
13	.84 (11)	100° 05' L	3.34 (C)
14 high	.67 (13)	68 5/8 05' L	2.77 (2)
14 low	2.75	67° 37' L	
15	1.92	123° 35' L	
16	✓	143° 35' L	
17	✓	134° 30 L	
18	X		
19	1.10	140° 55' R	
20	circ. 1.76		
21		130° 55' R.	
22			
23			

Sections.

Medial wall.



0 = Pt. on Plinth of 1936 throne rem.

H.I. = 1.03.

9 = 1.25

14 = 1.18 14 (high) .55

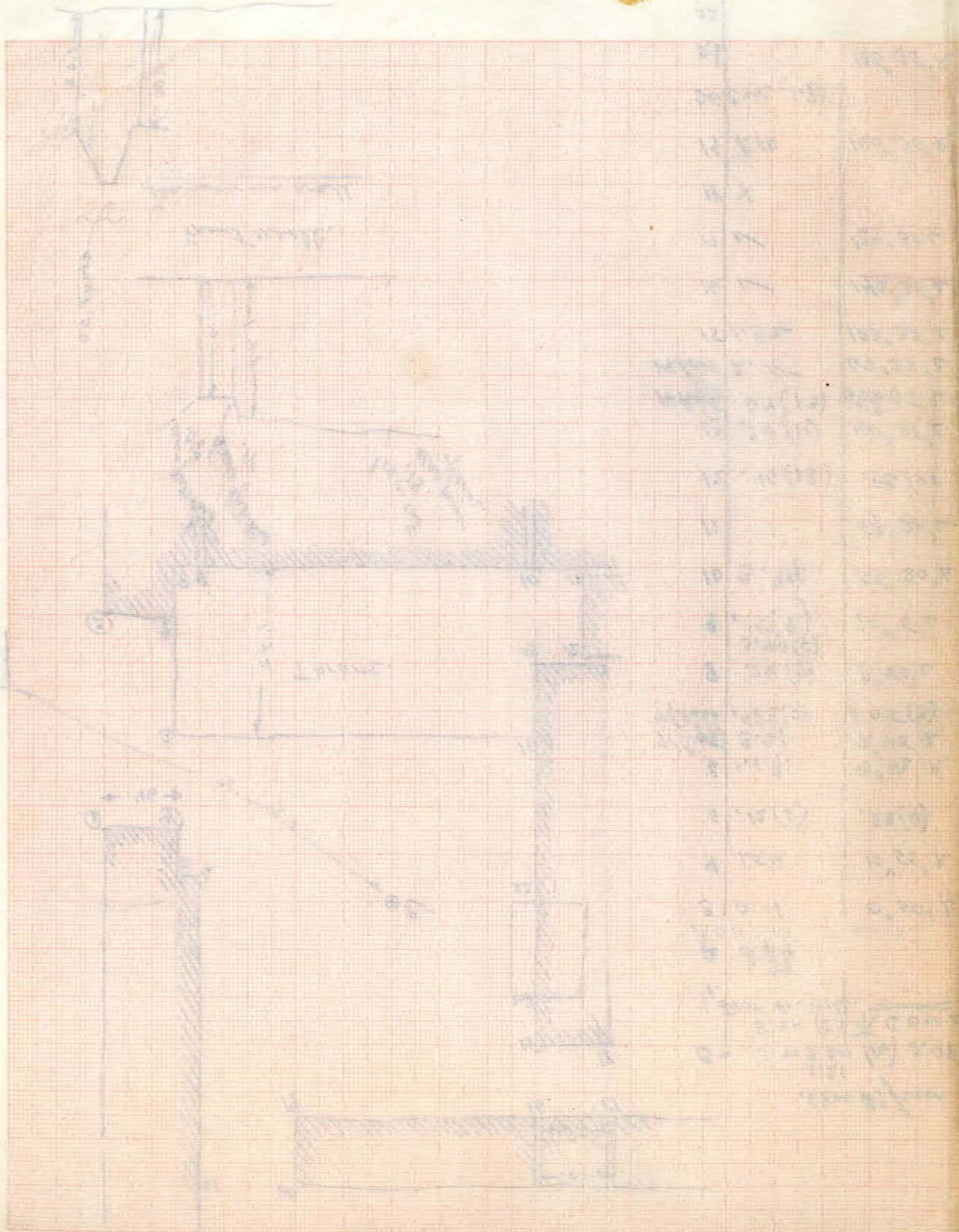
15 = 1.21

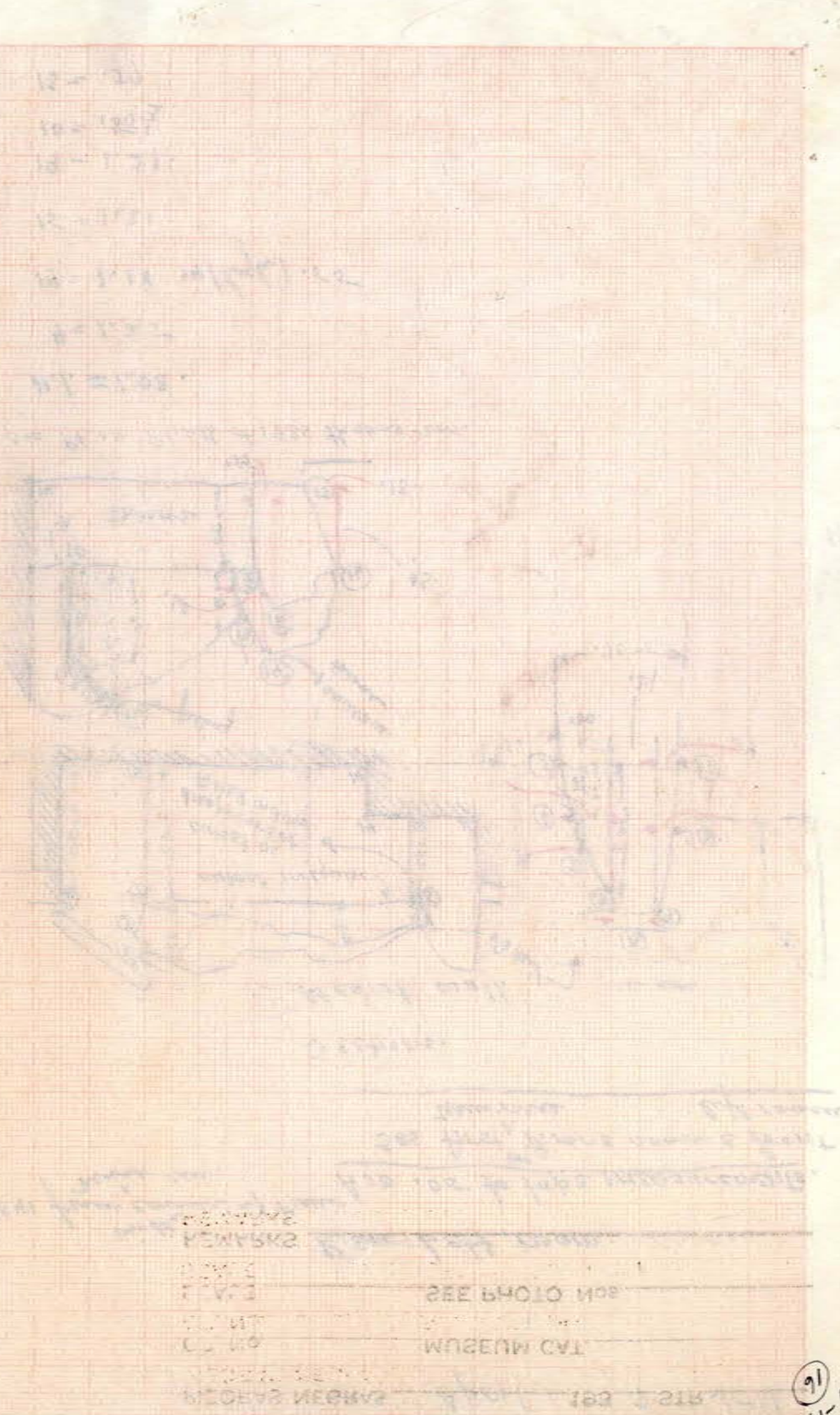
19 = 1.21.

10 = .58 1/3.

13 = .59

KEUFFEL & ESSER CO., N. Y. NO. 359-14L Millimeters. MADE IN U. S. A.





(91)
11-1

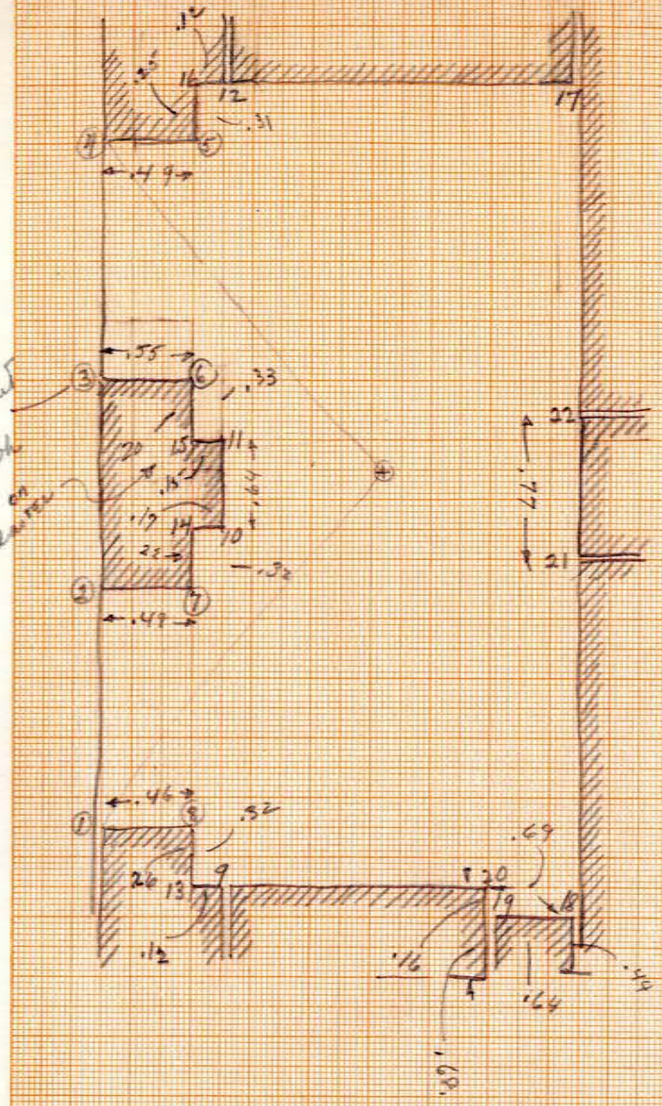
PIEDRAS NEGRAS April 1937 STR. I-11

CT. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Rear central room

Add .05 to tabe-measurements.



B_4 —

† on B_4 o on I

	LS	Dist.	Dist.
1.			
2.	1.20 (1)	1.85 (8).	
3.			
4.	1.88 (6).	1.83 (3)	
5.	1.89 (8)	1.75 (6)	
6.			
7.	1.78 (8)	1.87 (1).	
8.			
9.	5.45 (12)		
11.	2.56 (21)	2.23 (4).	
10	2.57. (22)	2.21 (1).	
12	2.65 (17).	3.03+ (10).	
13			
14			
15.			
16			
17	2.30 (7)	6.21 (1).	3.86 (10)
18	4.12 (2).	3.72 (7)	2.49 (21).
19			
20	3.44 (2).	2.10 (8)	5.70 (5)
21	3.75 (1)	4.55 (4)	
22.	4.23 (1).	4.02 (4).	

Levels

Floor at

Hights.

← 2.14 →

← 1.54 →

Transverse - rear

← 4.48 →

1.82 - width throne-room door.

1.78 - door of bench room.

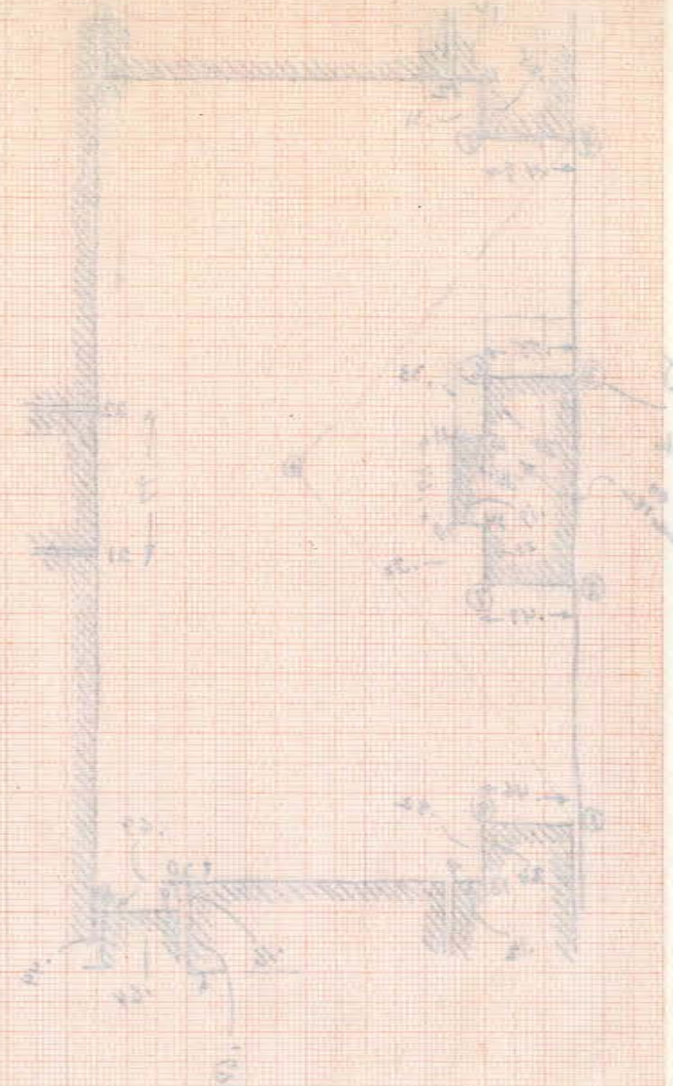
2.14½ (door of new throne room.)

1.77 door front room rear end.

KEUFFEL & ESSER CO., N. Y. NO. 359-14L
Millimeters
MADE IN U.S.A.

J-11

rear rein-forcement
+ Chickasaw
others.

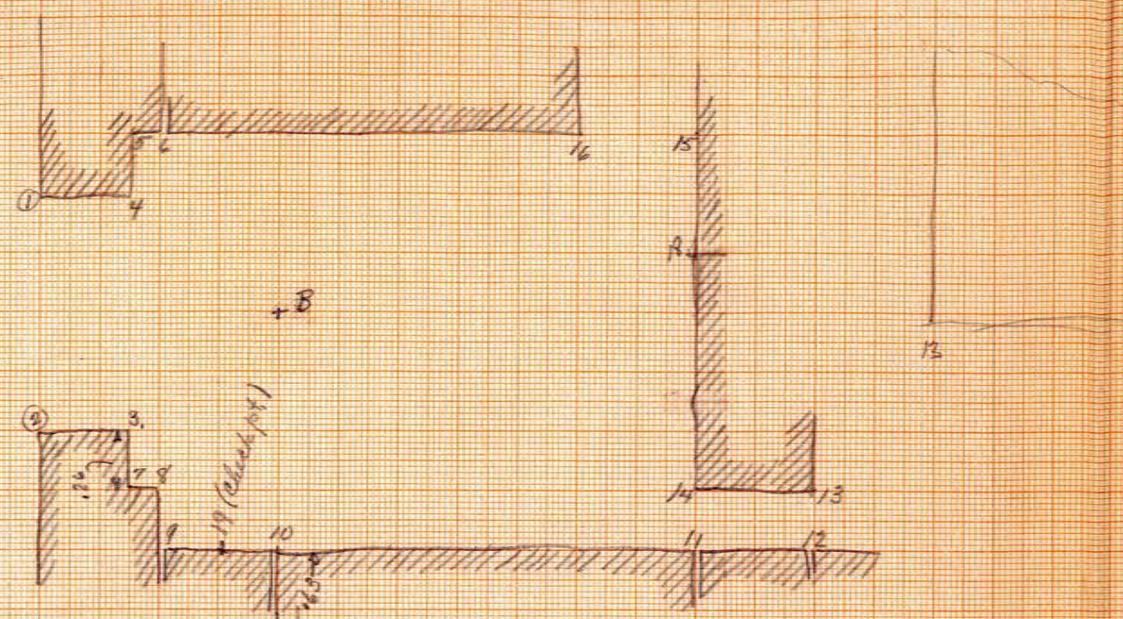


PIEDRAS NEGRAS April 193 7 STR. V-11

CT. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

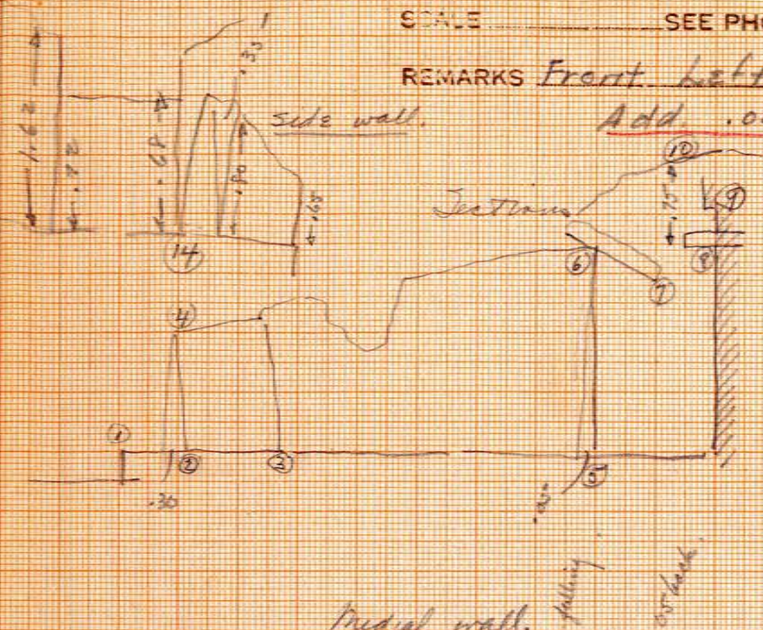
REMARKS Front. left Room.



B = 5.53 (from 1936 pt opposite door)

	Dist from B	from B on l. [192 ft = 24°28' L.]
1	1.79.	
2	1.69	61°24' L
3	33½ (8)	72°10' L
4	1.38	11°53' R
5	1.56	17°35' R
6	1.71	35°22' R
7	1.46	81°30' L
8	1.34.	88°05' L
9	1.71	97° L
10	1.61.	125°30' L
11	3.59	170°30' L .80(12)
12	3.30	179°35' R 1.17°(14)

	Dist from B	from B on l.
13		
14	2.09.	147°30' R. .73(11)
15	2.02	123°15' R
16	1.60.	102°40' R
17		
18	1.87	138°30' R.
19	1.57	.45 from broken corner of house



Stake T.P. at corner 1-11 = 1.28, 1.27

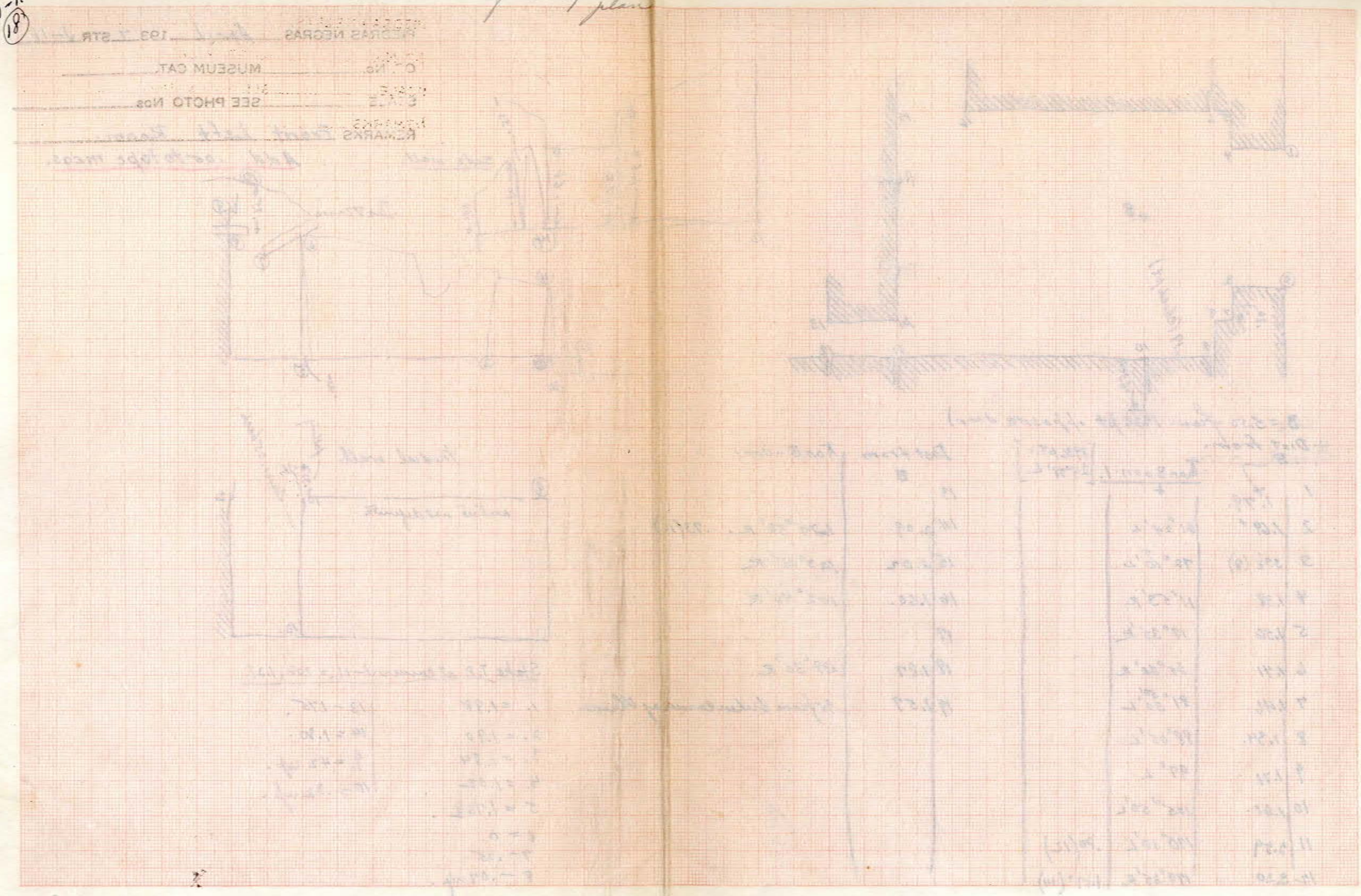
1. = 1.98	13 = 1.75.
2. = 1.90	14 = 1.80.
3. = 1.84	9. = .42 up.
4. = 1.02	10 = .32 up.
5 = 1.76½.	
6 = 0	
7 = .25	
8 = .07 up.	

Sheet.

KEUFFEL & ESSER CO., N. Y. NO. 380-14L Millimeters, MADE IN U. S. A.

D-11
(18)

D-11
Front left arm
plan



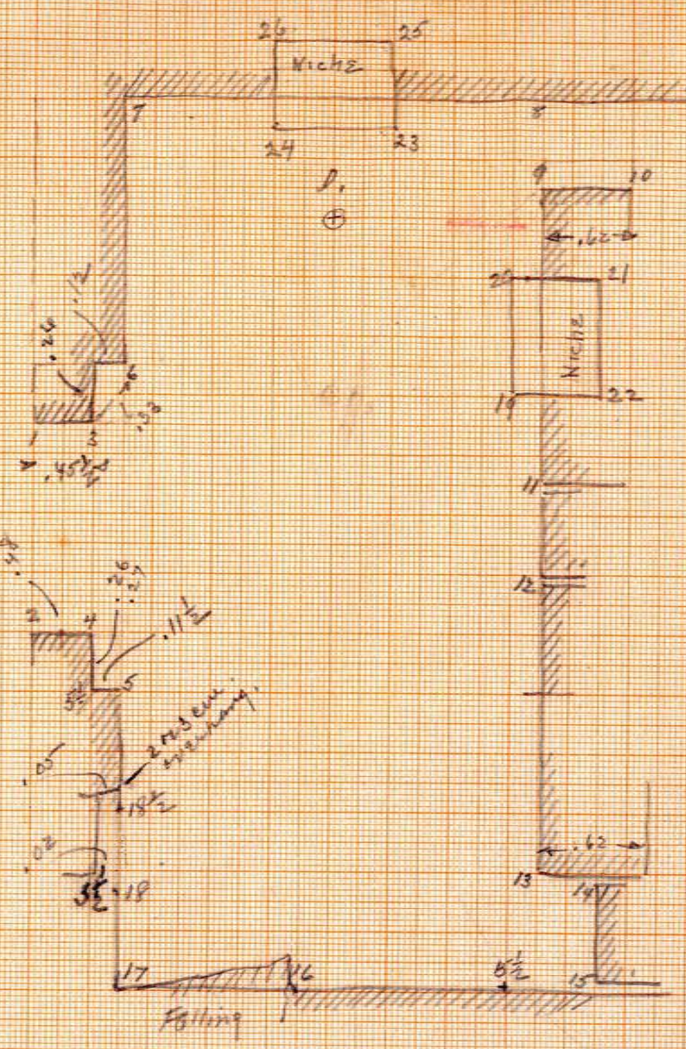
PIEDRAS NEGRAS Level 193 7 STR. 1-11

C.T. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Right - transverse Room

Add .05 to tape measurements



E 1.29(27) 1.37(28) 94(29) 1.13 oc 1.14 (30) 3.66 (10)

Floor levels

At 2-0 on 10. 30 = 42° 5' L.

2° = 75° 40' L

31 = 11° 35 L

D = 2° 40 R

9 = 2° 30' R.

At D-0 on E.

Plot pts.

	Dist	Dist	
D	4.54(27)	5.36(E 5.87	11 2.07(D) 61°-20' R.
	For Ls - ✱ at D, 0 on E.		12 2.61(D 71°25' R.
T.			13 4.32½(D) 85°38' R.
9.			14 .20(13) .77(15)
8.			15 5.20(D)
	Dist	Dist	16 5.10(D) .38(15) .79(13) 89°55' R.
1.			16 5.08(D) 109°40' R.
2.	Ls	Dist	17 5.02(D) 117°15' R.
1.	2.14(2)	2.20(4.	18 4.31(D) 119°15' R.
2.	3.42(D)	.48(4) 134°30 R	18½ 3.93(D)
3.	4.38(D)	2.14(4) 2.9(2). 159°5'	
4.	3.20(D)	5.60(Stks) 124°30' R.	
5.	3.47½(D)	.33(4). 121°50' R.	
6	1.04(D)	2.81(5). 167°10' R.	
7.	1.36(D)	115°5' L.	
8	4.31(D.		
9.	1.51(D)	0°30' R	
10	.63(9)	71°55' R	

B_3

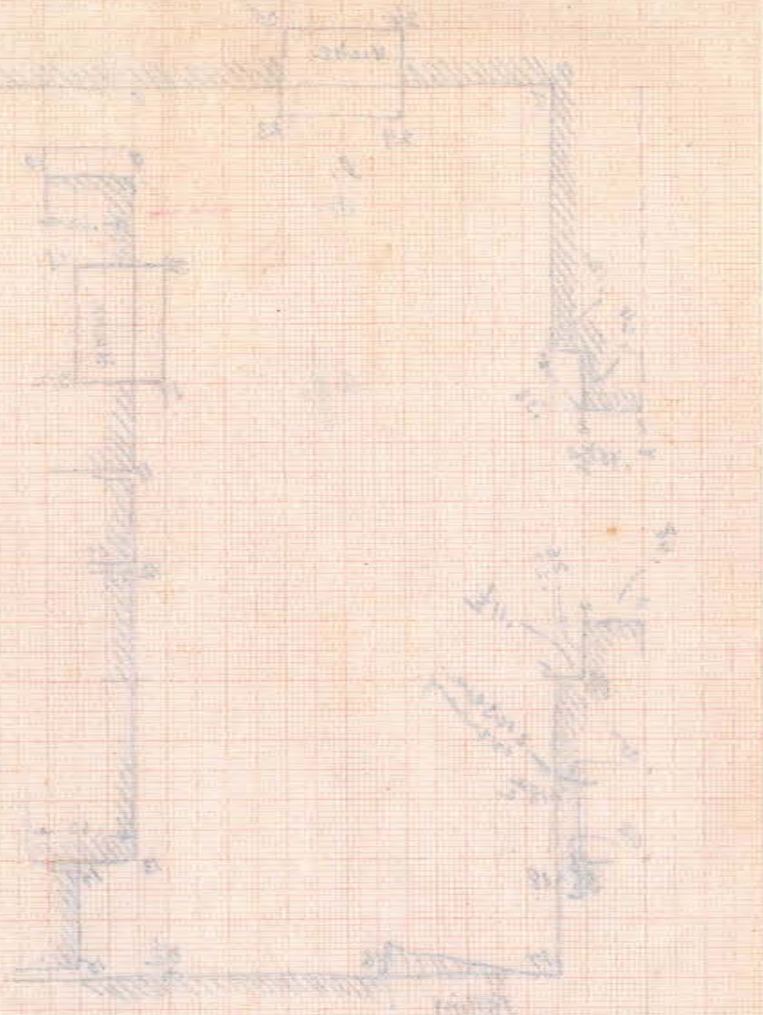
KEUFFEL & ESSER CO., N. Y. NO. 340-141 Millimeters. MADE IN U. S. A.

J-11

J-11

(19)

Transmission plan

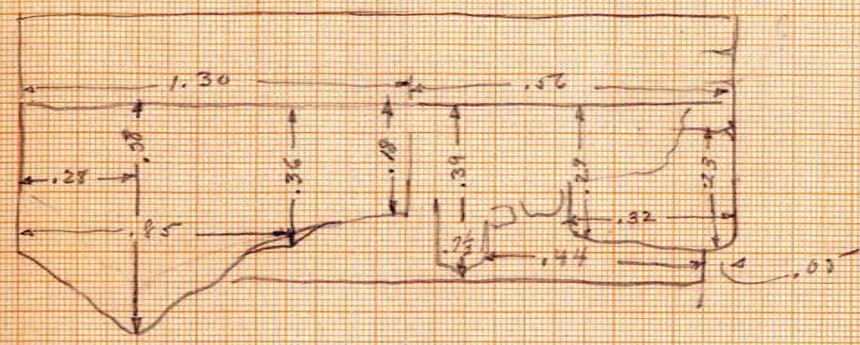


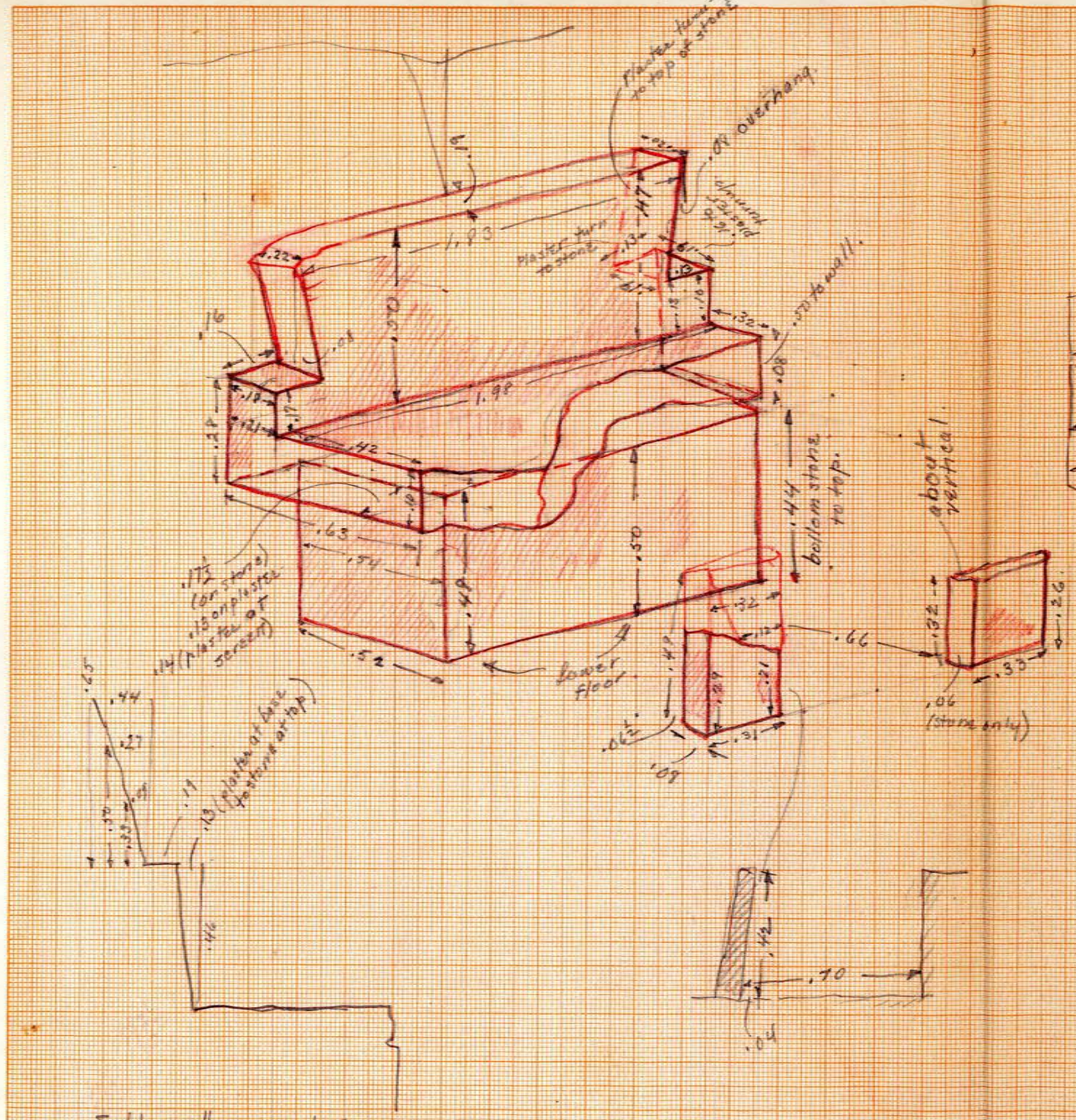
PIEDRAS NEGRAS April 193 7 STR. I-11

CR. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

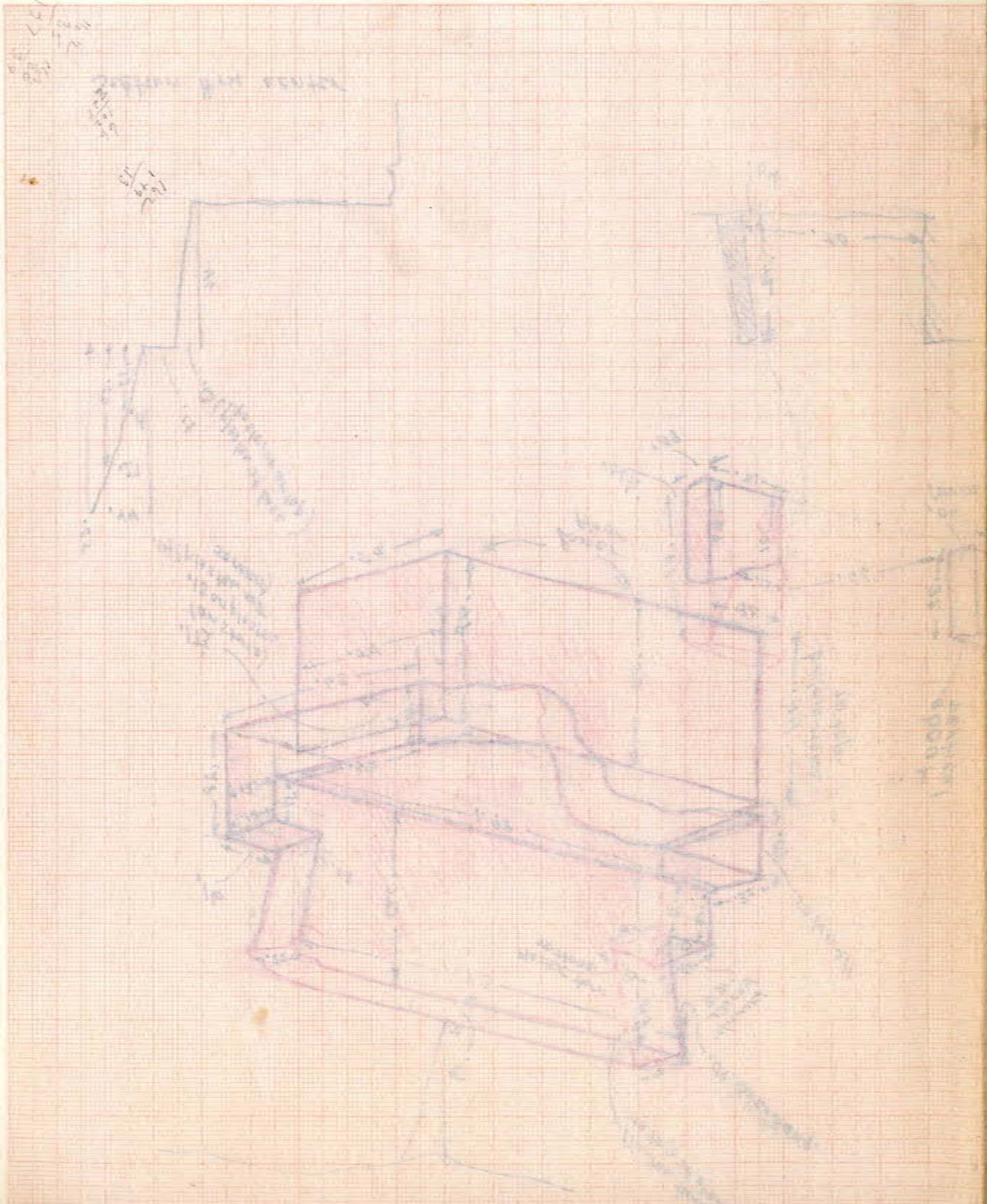
REMARKS Throne in Left transverse Room.
See plan for further Horiz. measurements.

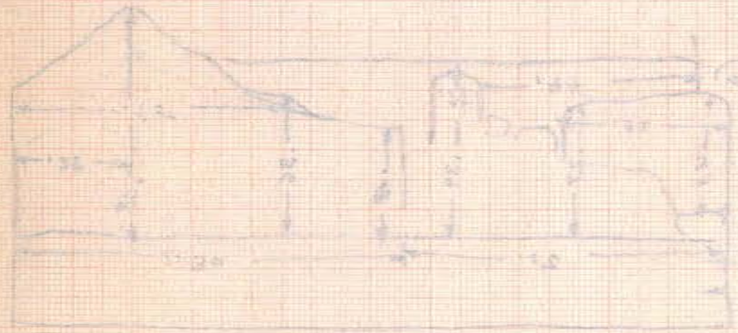




Section thru center

KEUFFEL & ESSER CO., N. Y. NO. 359-145
Millimeters,
MADE IN U.S.A.





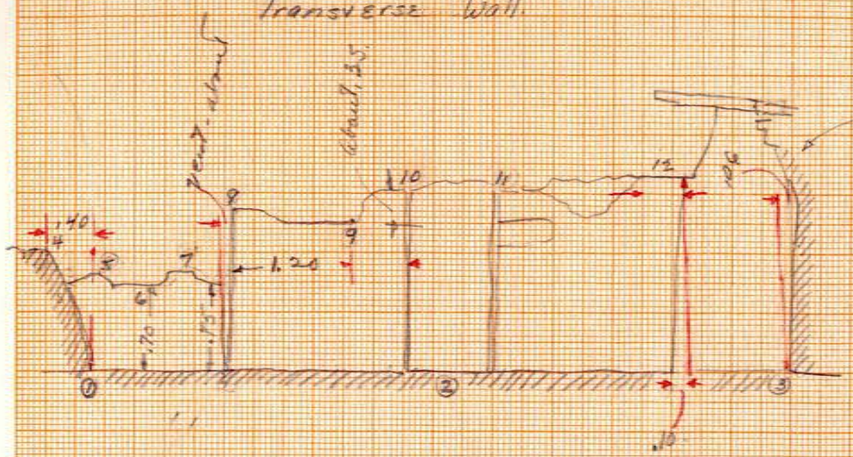
PIEDRAS NEGRAS April 193 7 STR. I-11

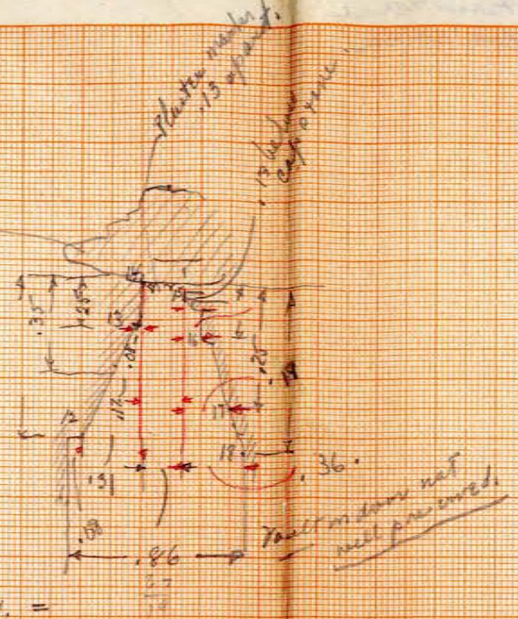
CT. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

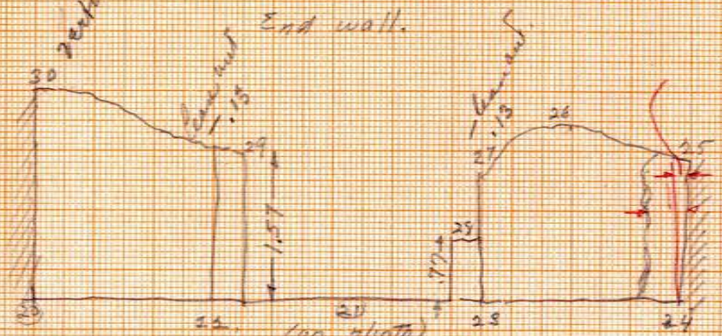
REMARKS Transverse Facade on Jastrow.

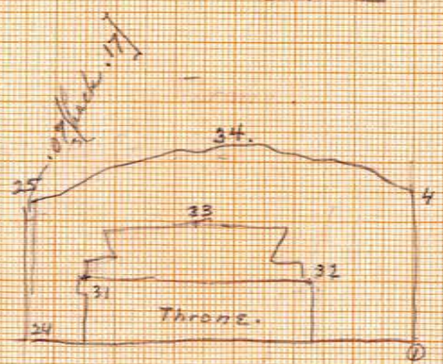
Transverse Wall.





End wall.





#21. =

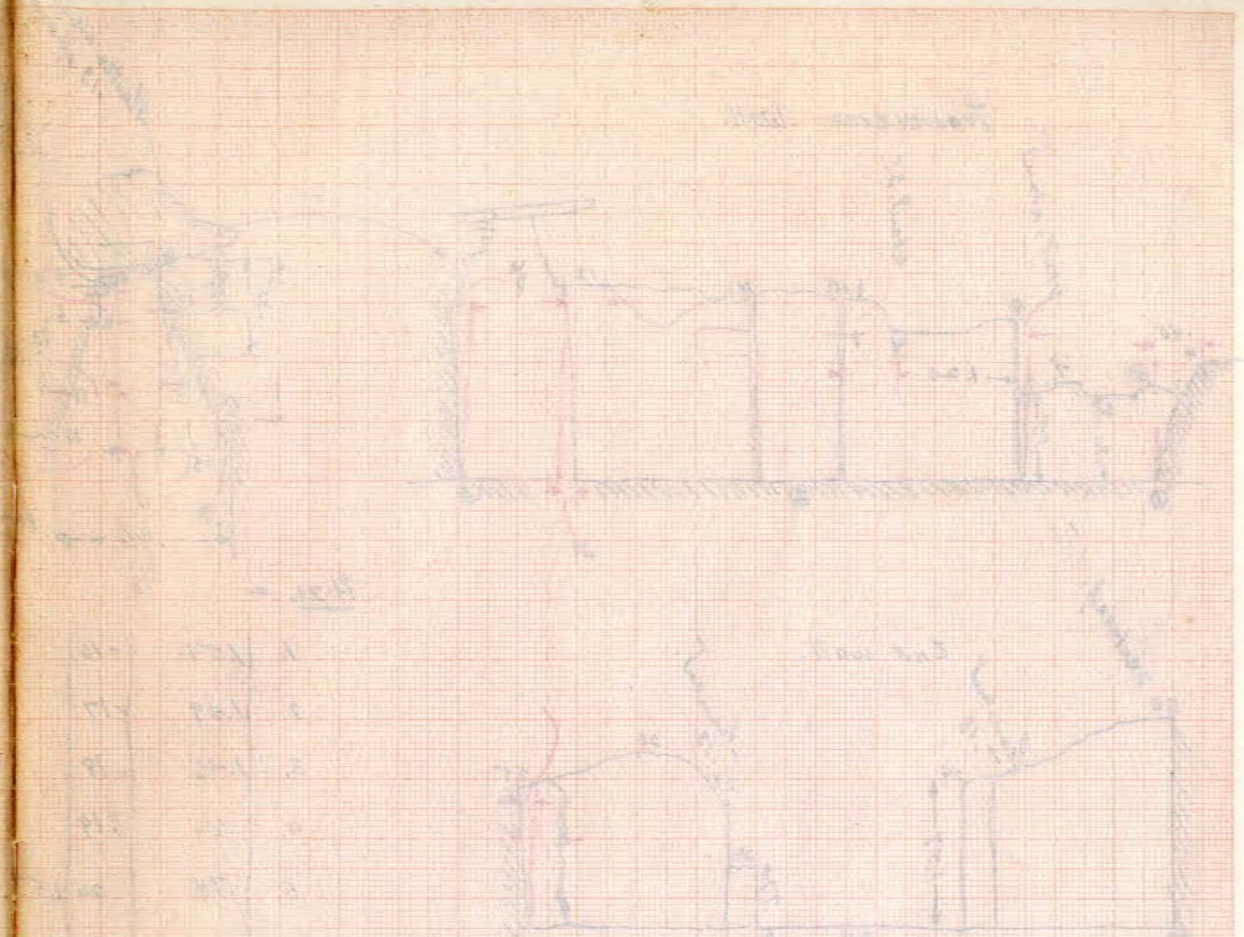
1.	1.51.	~16		31	.98
2.	1.49	~17		32	.98½.
3.	1.46	~18		33	.56.
4.	.24	?19		34	
5.	.74	20	1.53.		
6.		21	1.62.		
7.		22	1.56		
8.	.10 up.	23	1.52 (floor).		
9.		24	1.55.		
10.		25	.55		
11		26	.40 up.		
12	.66 up.	27			
13		28	1.74.		
14	1.11 up.	29			
15		30	.60 up.		

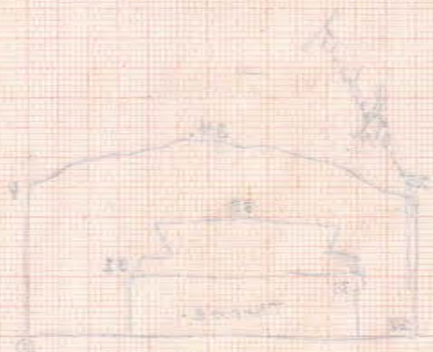
KEUFFEL & ESSER CO., N. Y. NO. 359-145
Millimeters.
MADE IN U. S. A.

J-11

Section transversale
Throne room

J-11
(21)





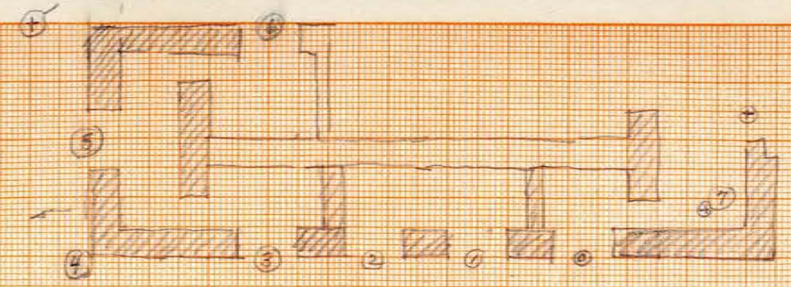
PIEDRAS NEGRAS Sfds 193[illegible] STR. [illegible]

CT. No. MUSEUM CAT.

DATE SEE PHOTO Nos.

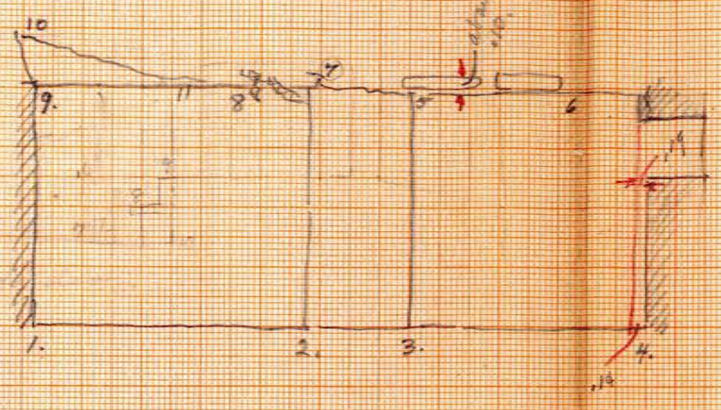
REMARKS Sections

Stake 1936 T.P.1

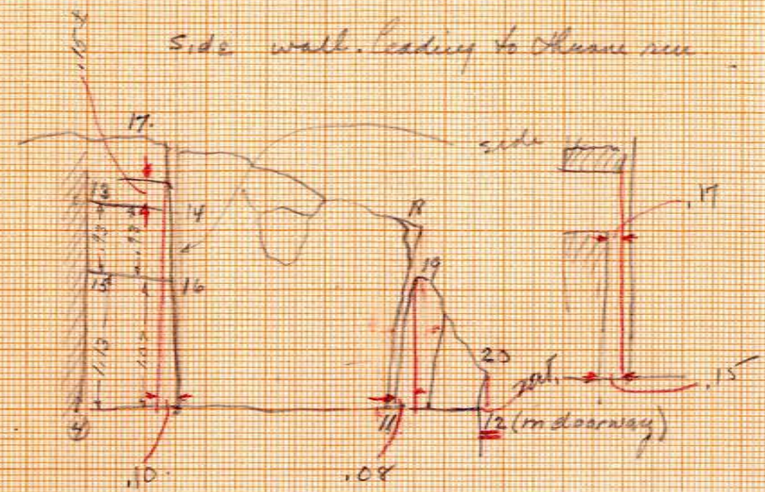


Over 1936 House run for width.

Medial Wall - Center rear room

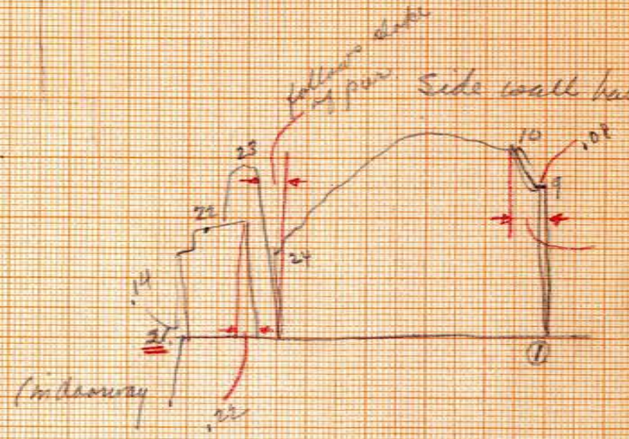


Side wall leading to House run

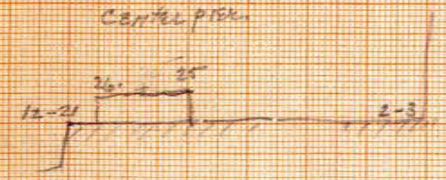


HI =	.83
①	.92
②	1.02 [illegible]
③	1.03 (1.15 rear wall (Plinth drops).
④	1.22½.
⑤	1.27.
36. T.P.1 =	.57.

for individual sections refer to points in doorways.



Side wall back of bench.



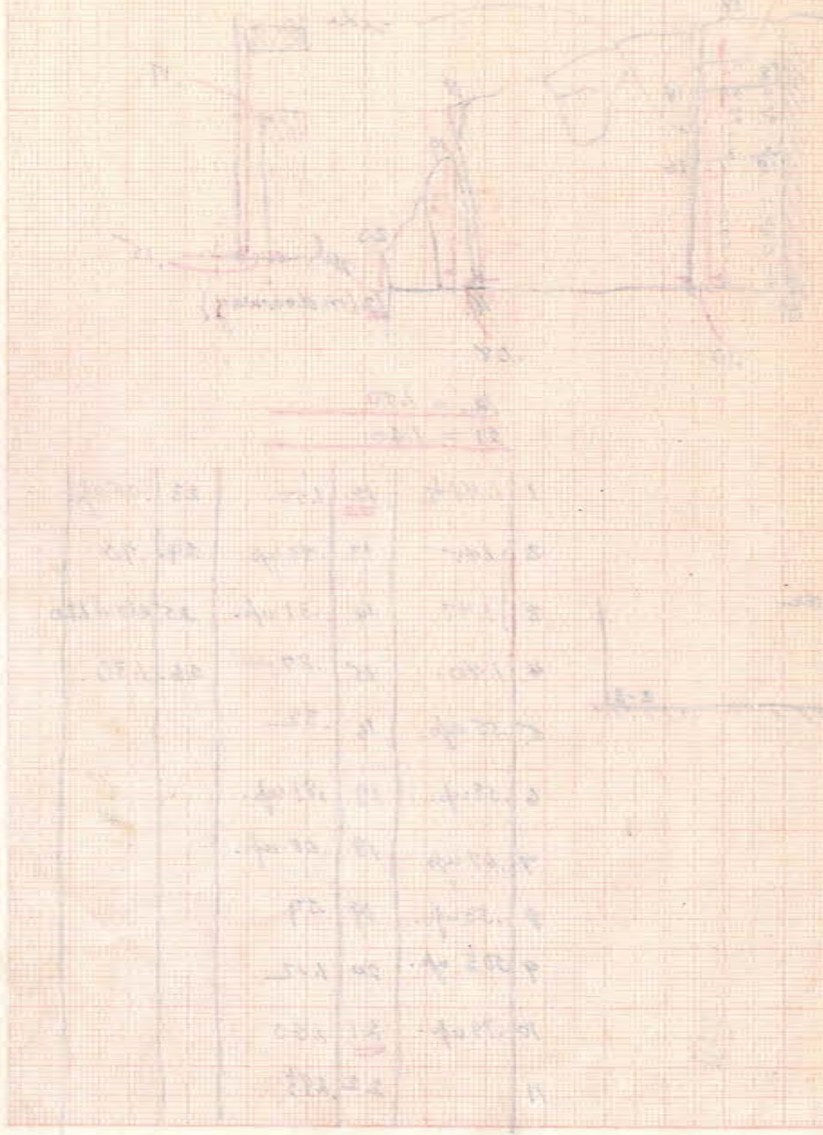
12 = 1.50
21 = 1.60

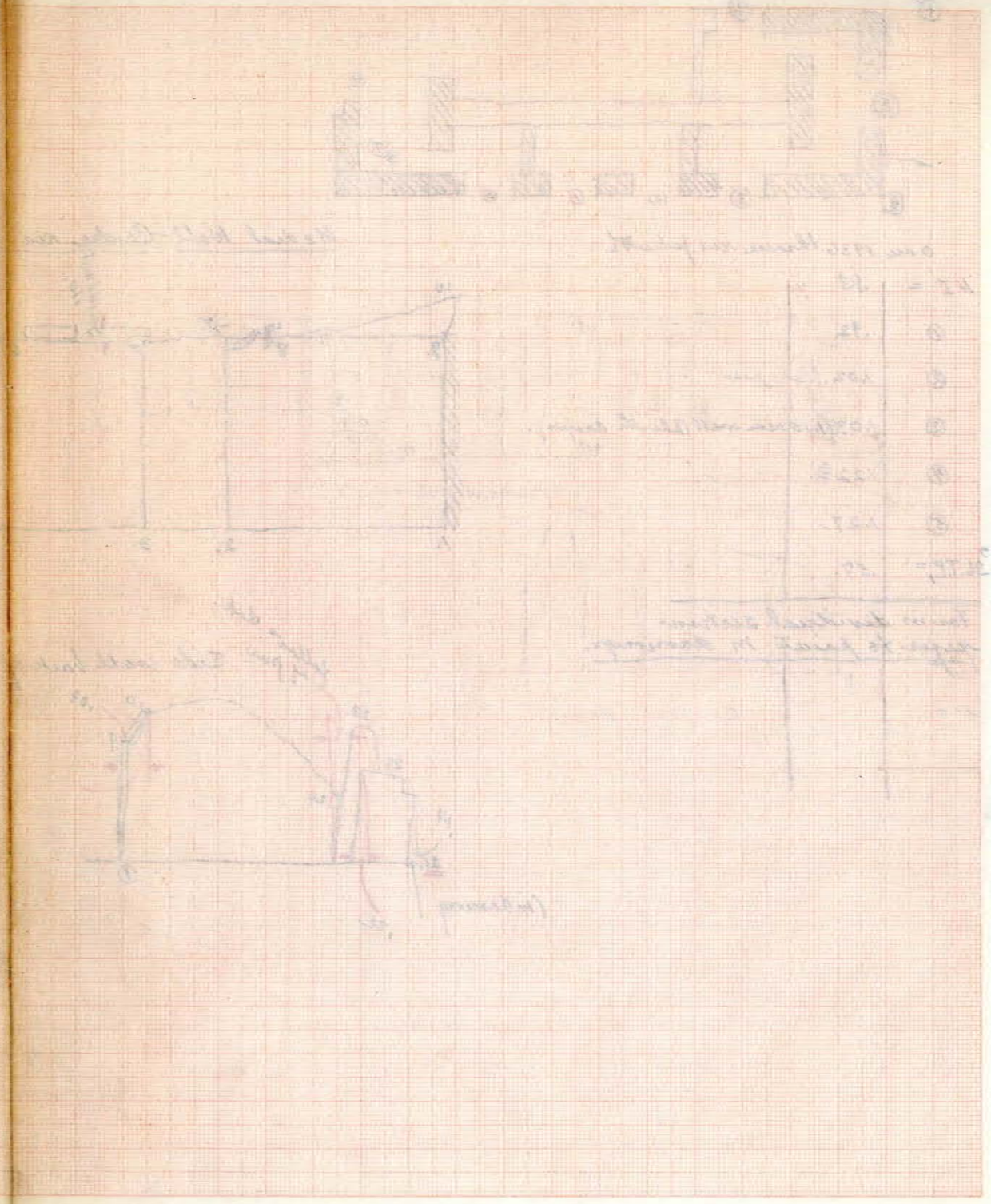
1	1.40½	12	1.50.	23	.05 up.
2	1.45	13	.40 up.	24	.70
3	1.47	14	.31 up.	25	about 1.20
4	1.40.	15	.27.	26	1.36.
5	.55 up.	16	.32		
6	.54 up.	17	.91 up.		
7	.69 up.	18	.08 up.		
8	.53 up.	19	.54		
9	.50½ up.	20	1.12		
10	.79 up.	21	1.60		
11		22	.89½		

KEUFFEL & ESSER CO., N. Y. NO. 333-14L Millimeters, MADE IN U.S.A.

J-11
(22)

J-11
Sections
Blueprints of central
rear room





① – Plan and measurements. – apply correction .01 per meter, 1st 10 ft.m. .005 per m. 2nd. 10 pm.

② – Schematic plinth plan, showing width of plinth & step at various pts. Note – at corner nearest V-9 (corner 2.) dimension "1.58" is along side of trench and corresponding line is not feature of bldg.

③ – Kiln's sections. Lowest section is E-F.

④ – Plan of room 3 & bench 3 (see Cretan plan) showing also location of pottery which the end line of original plinth. (apply correction +.05 to measurements in columns ally.)

⑤ – Upper left – plan of Room 4 & bench 4. (apply correction .05 to measurements in columns ally.) Lower rt. room back of piers 7-8-9. (Cretan plan) (1.10 is width of medial wall.)

~~⑥~~ –

⑥ – Plan of room containing bench 2, and room 1.

⑦ – Plan and section rear rt. transverse wall showing early V-12 and plinth.

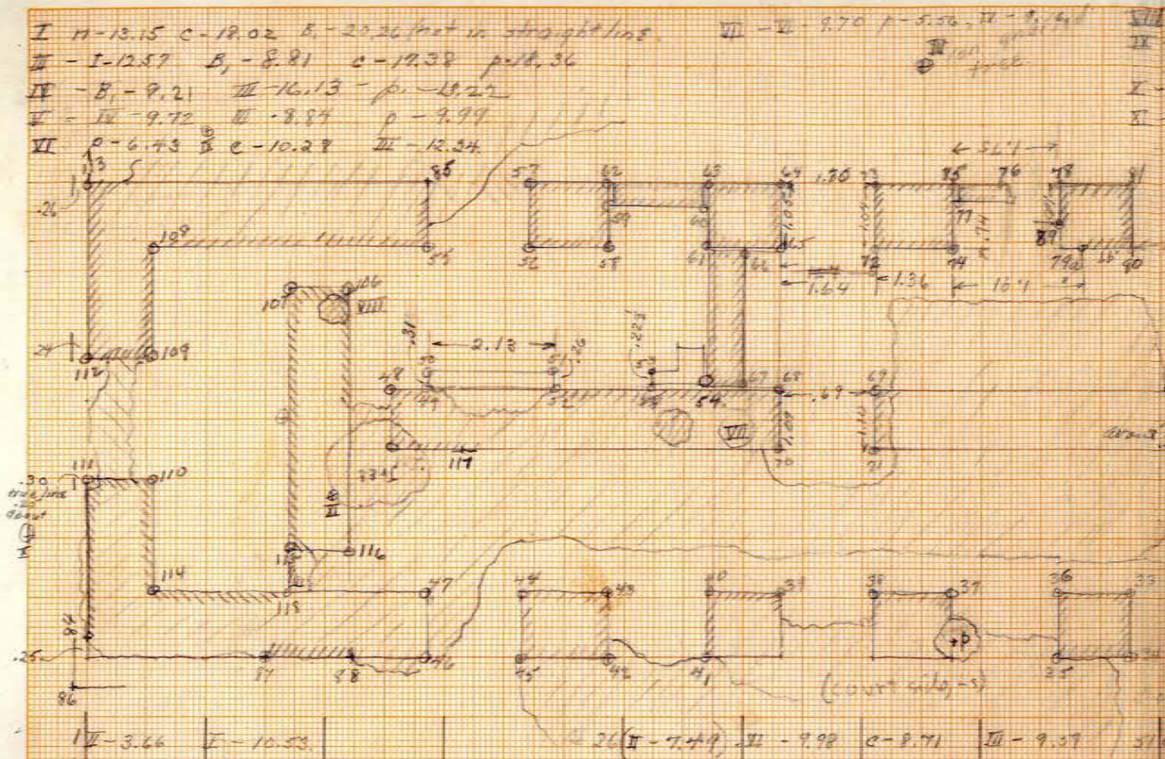
J-12

Levels. 0 = incised cross of J-9.

Plinth (on plaster) - right front (facing away from Court II)
corner = -.15

" center front = -.03

Floor in left end room = +.39
Floor in Rt. " " = +.01



1	V-3.66	I-10.53			26	II-7.49	VII-9.98	C-8.71	VIII-9.37	51	I-3.12	VIII 8.82	IV-8.60		76					102 - III - 11.63, p - 6.74, VI - 1.19
2	II-4.57	I-7.95	H-1.76		27	p-8.70	C-5.43	VII-9.80		52					77					103 - 70 - 8.26 II - 5.00 (6.01)
3	I-8.49	H-2.01	O-.99	S-1.79	28	p-7.85	C-6.04	IV-4.54		53	VIII -5.19	IV-9.23			78	VII-7.00	81-1.30	I-3.90		x - 3 - 2.36
4	II-5.70	I-6.52	III-11.91		29	p-7.53	C-6.52	VII-3.88		54	H-2.34	51-2.34			79	VI - 5.09				x - 5 - 2.37, III - 9.58
5	I-7.00	H-1.06	III-11.23	2-2.07	30	p-5.76	C-7.84	VII-3.53		55	57-1.99,	50-2.02	VIII-1.75,	IX-4.84, VII-7.09	80	XI-7.42	83-1.41	III-12.04		106 - 55 - 1.55, VIII - 1.29 X-4.41
5	I-4.77	III-9.74			31	p-4.54	C-8.93	IV-3.60		56	60-2.30	65-1.67	VIII-8.21	IX-7.07	81	III-11.42	III-8.04	II-2.66		107 - 108 - 2.66, 109 - 2.82
6	I-9.56	III-6.97	II-11.13		32	p-4.58	IV-2.69			57	II-12.60	III-4.21	52-1.03	65-1.94	82	IV-4.52	II-9.44	81		108 109 - 2.02
7	III-7.93	I-8.81			33	31-6.10	32-1.77	34-1.26,		58	56-1.24	VII-3.70	VIII-4.42	III-6.47	83	VI-3.51	81			109 II - 4.79 IV - 3.89 X - 6.29
8	III-8.55	I-9.06			34	31-1.80	32-2.03,	p-2.75		59	58-.78	61-1.85			84	II-5.28	II-2.14			110 - 109 - 3.89, II - 1.99 X - 4.88
9	I-.45	8-.85			35	p-1.82	VIII-6.95	II-6.30		60	58-1.70	61-.82			85	III-2.55	III 7.31			111 II - 4.53 I - 4.31
10	8-.97	I-.91			36	p-1.97	VII 6.29	III-4.67		61	56-1.96	VIII-6.10	III-5.96		86	X-4.65	IV-10.17			112 XI - 4.88 X - 5.91
11	II-1.20	5-2.17			37	36-1.74,	p-1.00	VIII-4.76	VI-6.28	62	II-11.45	IV-5.55	57-1.18	VIII-4.73	87	VIII-2.07	I-5.55			113 I - 2.82 III - 12.38
12	I-6.11	6-1.79	X-3.64		38	37-1.25	p-1.83	VI-3.73	VI-4.37	63	V-9.68	III-4.95	VIII-4.30,		88	VIII-6.90	X-6.99	III-10.02		114 - 107 - 5.65, 110 - 2.15
13	J-6.52	n-12.49	3-2.37		39	38-1.70	p-3.40	III-2.79		64	II-7.91	72-1.93	V-3.48	57-4.15	89	VI-5.63				115 - 107 - 4.36, 2.98
14	J-8.63	n-13.36	VI-11.73		40	39-1.18,	p-4.54	VI-2.57		65	73-2.03	III-5.99	VI-9.40	III-3.20	90	X-5.16	VI-6.39			116
15	I-10.82	III-13.78	8-2.54		41	p-4.45	III-3.64			66	65-.92				91	VII-5.83				117
16	I-11.36	III-12.42	O-6.74	17-.78,	42	41-1.90	p-6.22	VII-4.09		67	66-2.32	65-2.41	68-1.06		92	p-10.48	27-1.76	C-4.35		119 - 107 - 4.98, 110 - 3.91
17	I-11.87	III-13.25	3-3.55	C-6.19	43	42-2.10	40-1.78,	p-6.28	VIII-5.24	68	65-2.59	III-2.35	VI-8.28	VIII-1.79	93	X-6.41	III-5.98			114 - 2.65
18	3-1.91	X-3.48	VI-14.36		44	43-1.30	p-7.05	VII-4.89		69	65-2.64	VIII-2.40			94	III-5.89	X-8.11			104 - VI - 7.30 (4.32) 103 - 102 - 1.19
19	18-1.01	21-2.00	C-5.48	p-16.53	45	p-7.52	VII-4.89			70					95					108 - p - 6.22 102 - .75 VI - 1.60
20	17-2.05	21-1.02	19-1.77	C-4.33 p-14.46	46	p-9.20	VIII-6.15			71	69-1.89	IV-9.51	VIII-2.21		96	X-2.63	III-4.95	105-1.20		VI - 13.49
21	I-13.21	17-1.75	16-1.85		47					72	II-6.24	VI-7.91			97	III-6.19	V-9.39			114 - X - 3.41 IX - 8.58
22	16-1.52	VI-11.02	C-8.04		48					73	IV 8.30	X-6.93			98					118 - X - 5.77
23	22-1.27	16-1.97	IX-9.69	C-7.50,	49	48-.72				74	48-1.98	VI-6.70			99	105-.89	102-114			115 - X - 6.02 II - 7.97
24	C-3.90	20-1.24	p-13.53		50	VIII-1.82	IX-9.56			75	IX-5.91	V-5.64			100	XI 1.19	p-5.41	47 Leaving	Forward	107 IX - 8.94
25	II-7.97	III-10.05	III-10.64	C-8.90											101	112-.76,	105-1.05	X-8.76		116

III - 9.83

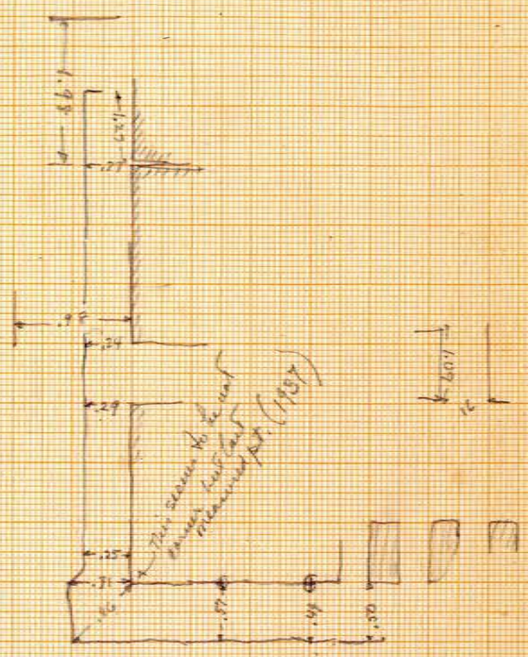
KEUFFEL & ESSER CO., N. Y. NO. 340-14L Millimeters

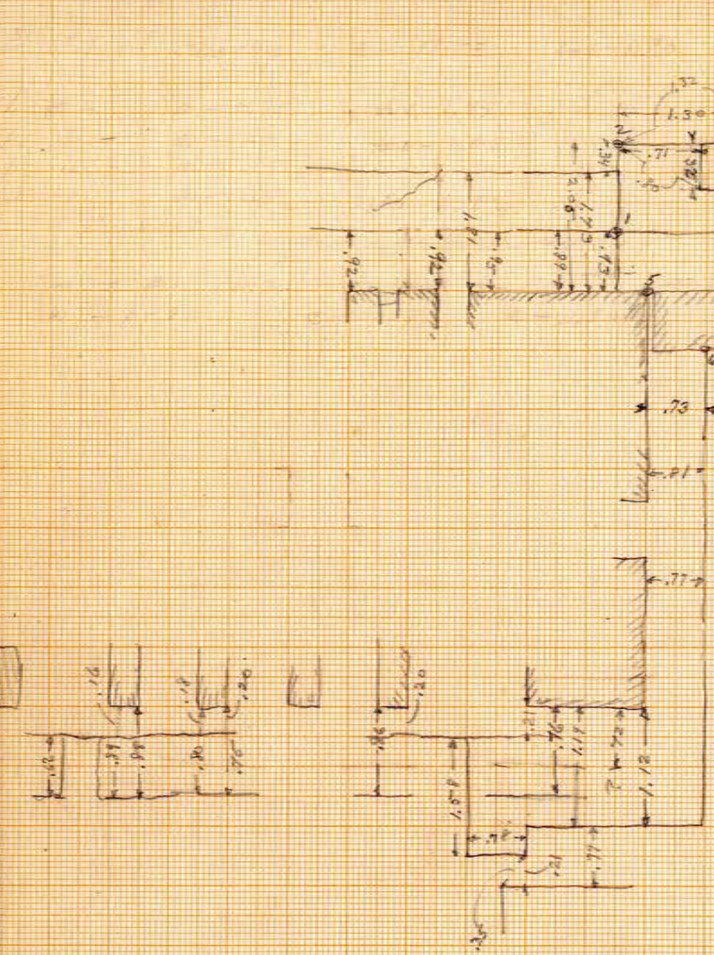
J-12

J-12
plan
(1)

Substructure at I-12

Corrections
108 15th/om pavin.
.01 per 2m
2nd 10m



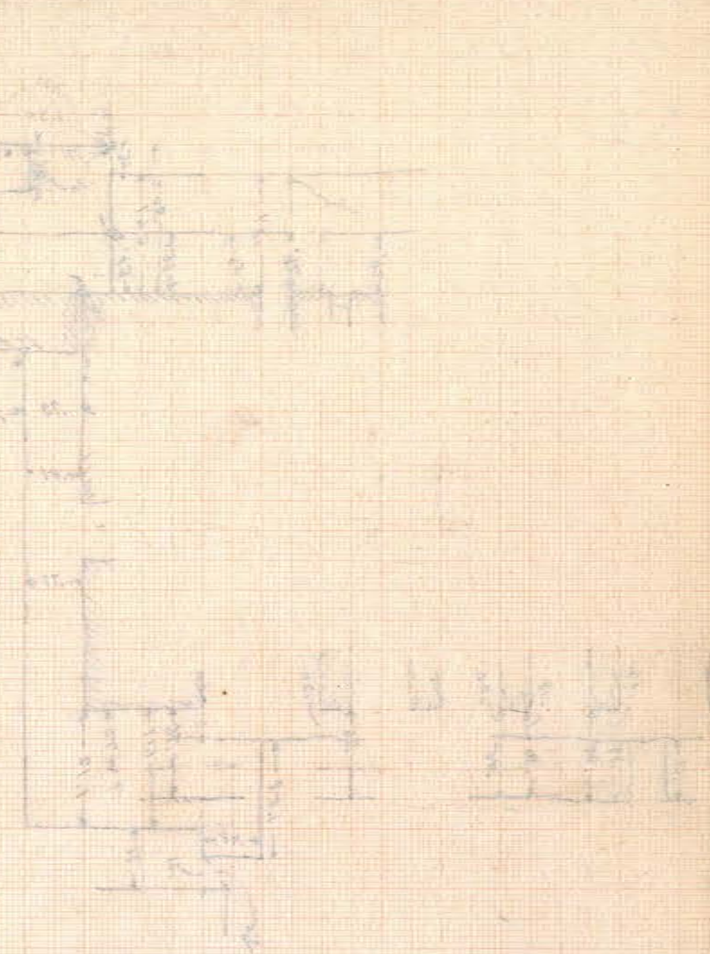


1	I - 4.96	III - 9.79	
2	I - 4.68	II - 10.24	
3	I - 3.37	II - 9.28	III - 9.42
4	I - 3.58	II - 10.58	III - 9.07
5	I - 4.78	II - 10.61	III - 9.11
6	I - 4.28	II - 7.51	III - 10.57
7	I - 4.04	II - 7.45	
8	I - 3.35	II - 8.47	

KEUFFEL & ESSER CO., N. Y. NO. 339-141
Millimeters

J-12
(2)

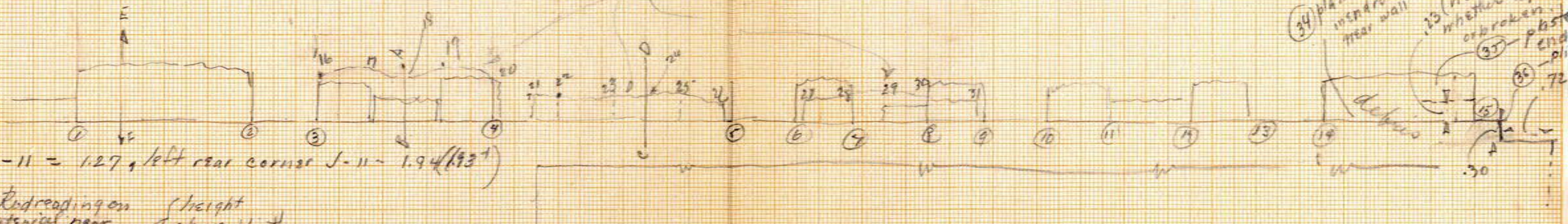
J-12
plinth plan



Façade facing away from Court II

Elevations & Sections J-12

Metric sections thru center of room

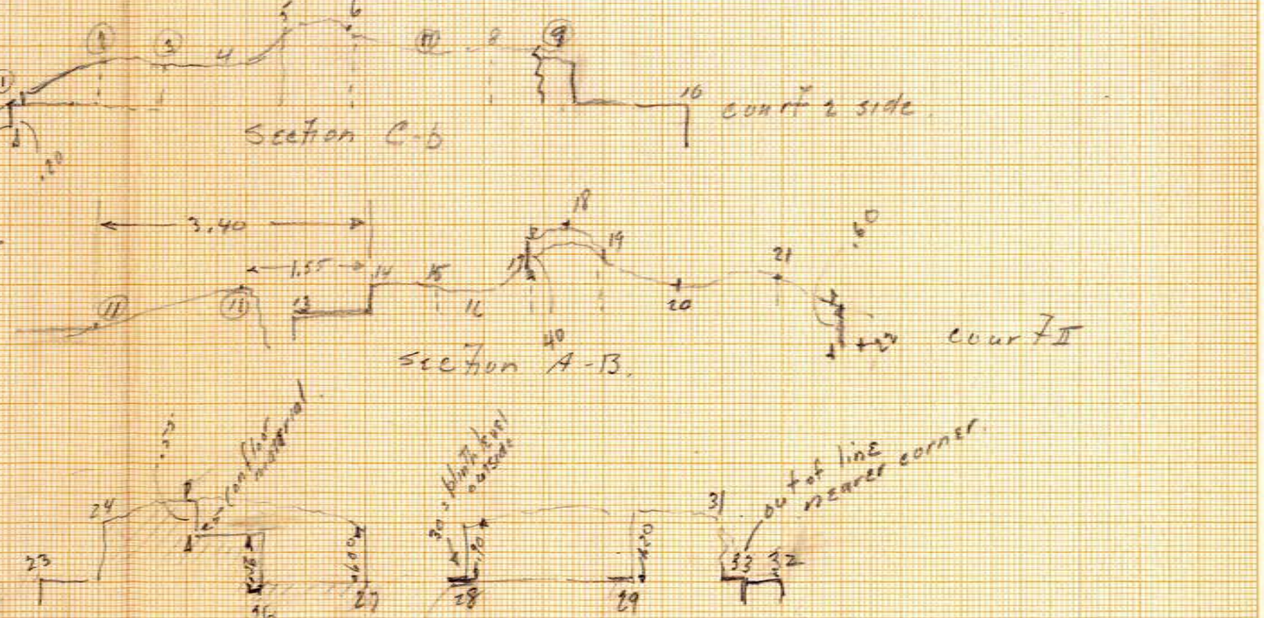


A of J-11 = 1.27, left rear corner J-11 ~ 1.94 (193?)

	floor material near piers	Rodreading on (height above plinth
①	- 2.82	- 1.05 (on plastering plaster on plinth)
②	- 2.82	- 1.10 (on floor material (bottom of wall .09 down)
③	2.79	- .55 (at bottom at wall on floor material)
④	2.75	- .70 (at bottom on floor material)
⑤	2.68	- .53 (at bottom on floor material
⑥	2.93	- .40 (bottom of wall)
⑦	2.67	- .60 (bottom)
⑧	2.65½	- .65 (bottom of pier .10 up)
⑨	2.63	- .33 (bottom of pier .10 above)
⑩	2.56	- .65 (about at bottom)
⑪	2.30	- .45 (unfinished floor inside room)
	2.41	(bottom of pier)
12	2.37	(bottom) - .80
13	2.27	- .40 (floor level in doorway)
	2.35	(bottom of pier)
14	2.33	(bottom) - .90
15	2.43	(bottom) - 1.95

16 - 2.13½	21 = 2.30	27 - 1.74
17 = 2.19	22 - 2.28	28 - 1.75
18 - 2.19	23 - 2.23	29 - 1.92
19 - 1.99	24 - 2.28	30 - 1.90
20 - 1.98	25 - 2.23	31 - 1.79.
	26 - 2.29	

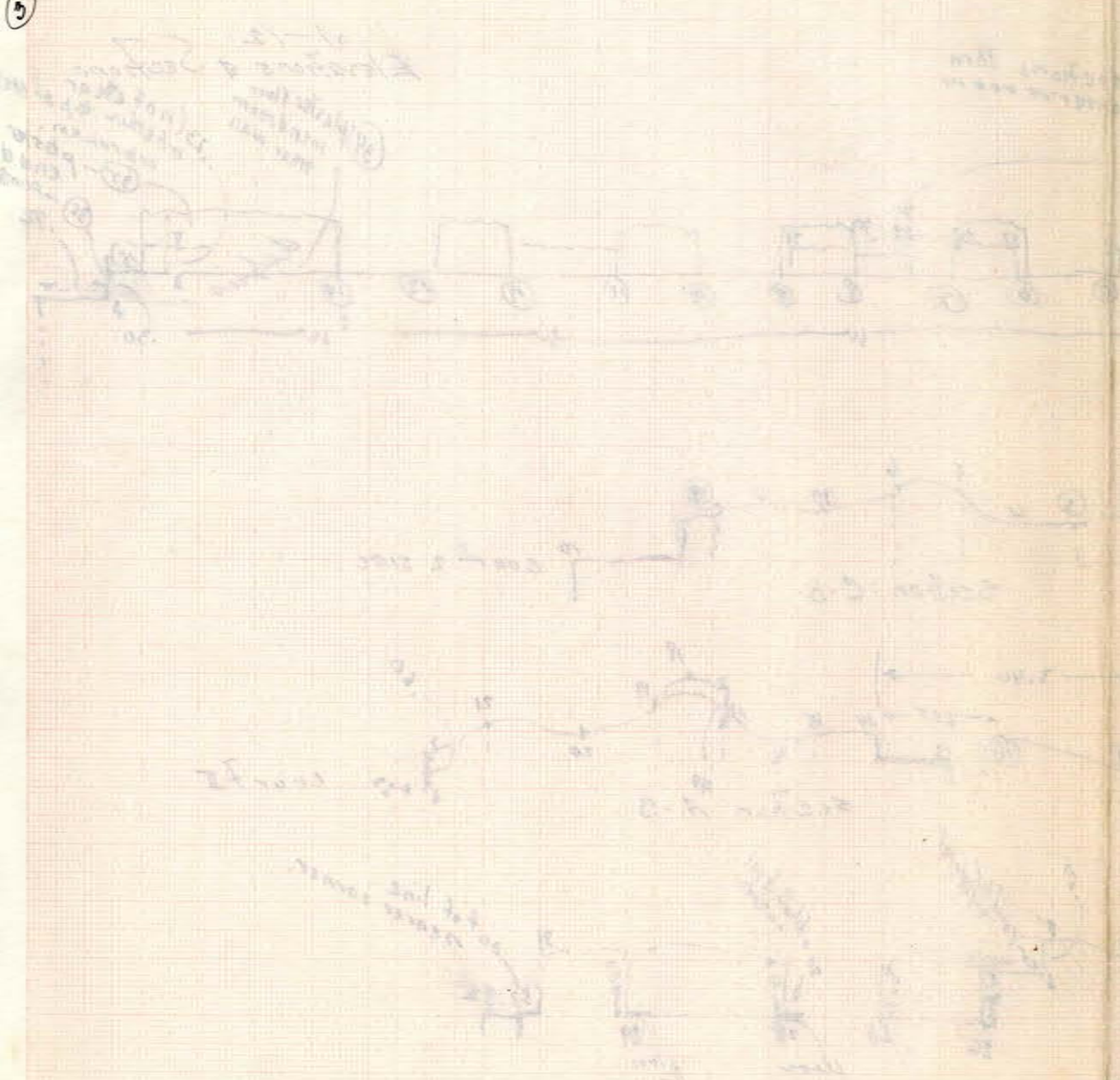
A of J-11 = 1.27
① = level of plinth
② = 2.38
③ = 2.28
④ = 2.25
⑤ = 1.70
⑥ = 1.66
⑦ = 1.93
⑧ = 1.99
9 = 2.03
10 = 2.48
11 = 3.25
12 = 2.64
13 = 2.77
14 = 2.09
15 = 2.19
16 = 2.19
17 = 1.61
18 = 1.17
19 = 1.48
20 = 2.10
21 = 2.15
22 = 2.61
23 = 1.87
24 = 1.89
25 = 3.15
26 = 2.79
27 = 2.75
28 = 2.66
29 = 2.39
30 = 2.82
31 = 1.54
32 = 3.00
33 = 2.82
34 = 2.24
35 = 2.29
36 = 2.34

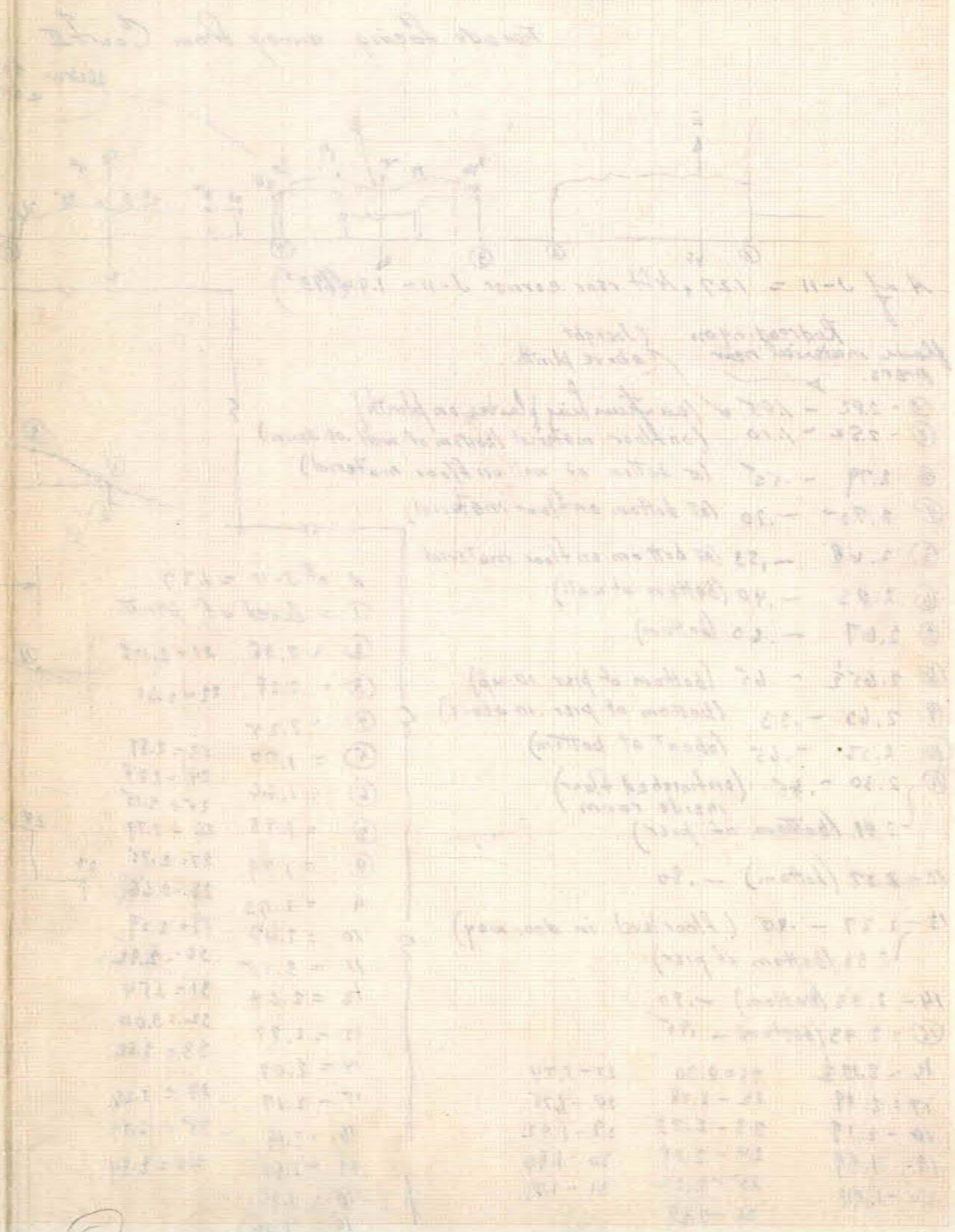


KEUFFEL & ESSER CO., N. Y. NO. 359-14L
Millimeters

J-12

J-12
Section



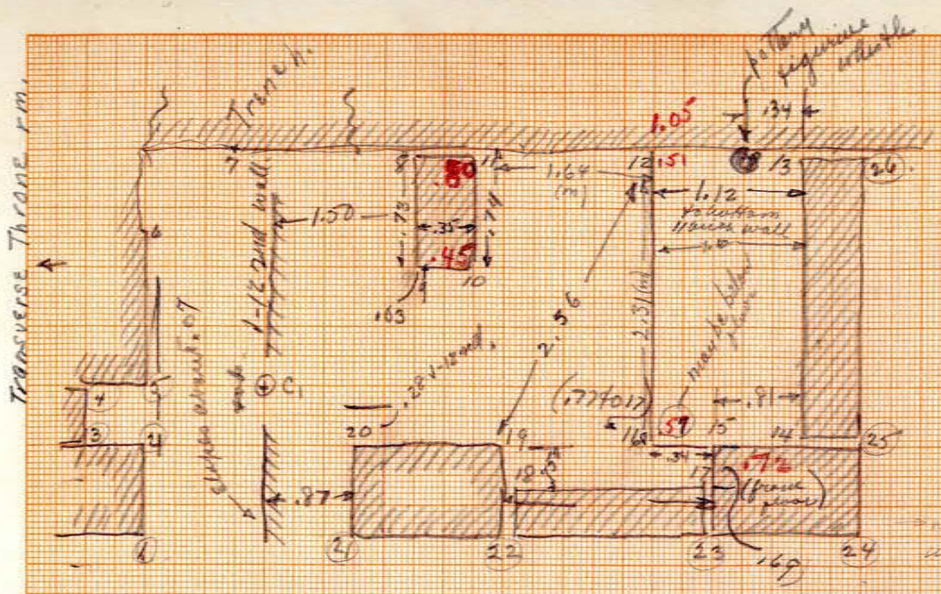


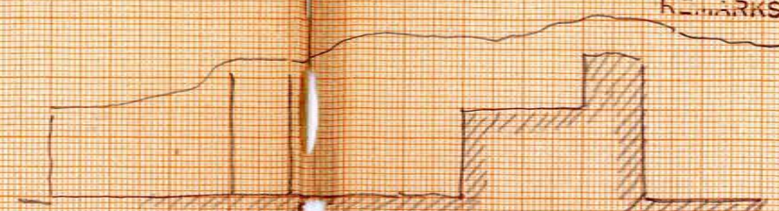
PIEDRAS NEGRAS April 1937 STR. J-12

C.P. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS





Medial wall & section thru throne

Add .05 to measurements

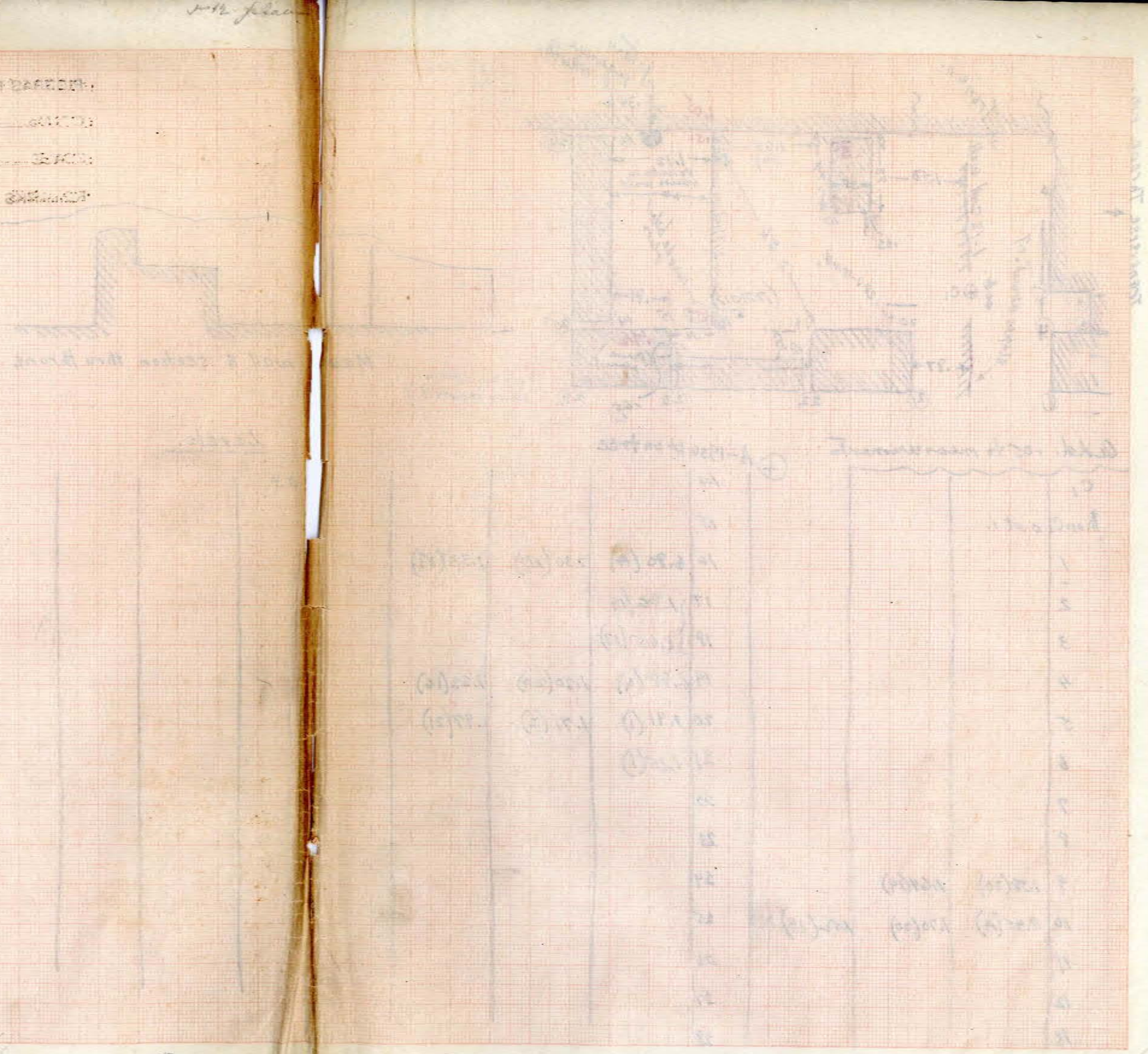
⊕ A-1936 bottom tree

	C_1	Ron C_1 o at 1.		⊕	
1				14	
2				15	
3				16	6.80 (A) 2.30 (10) 1.33 (11)
4				17	1.86 (19
5				18	1.65 (17)
6				19	1.88 (A) 1.20 (20) 1.33 (16)
7				20	1.91 (1) 1.71 (2) .97 (21)
8				21	1.65 (1)
9	1.55 (20)	1.64 (19)		22	
10	0.45 (A)	1.70 (20)	1.52 (19)	23	
11				24	
12				25	
13				26	
				27	
				28	

Levels.

0 =

KEUFFEL & ESSER CO., N. Y. NO. 360-141
Millimeters,
MADE IN U.S.A.

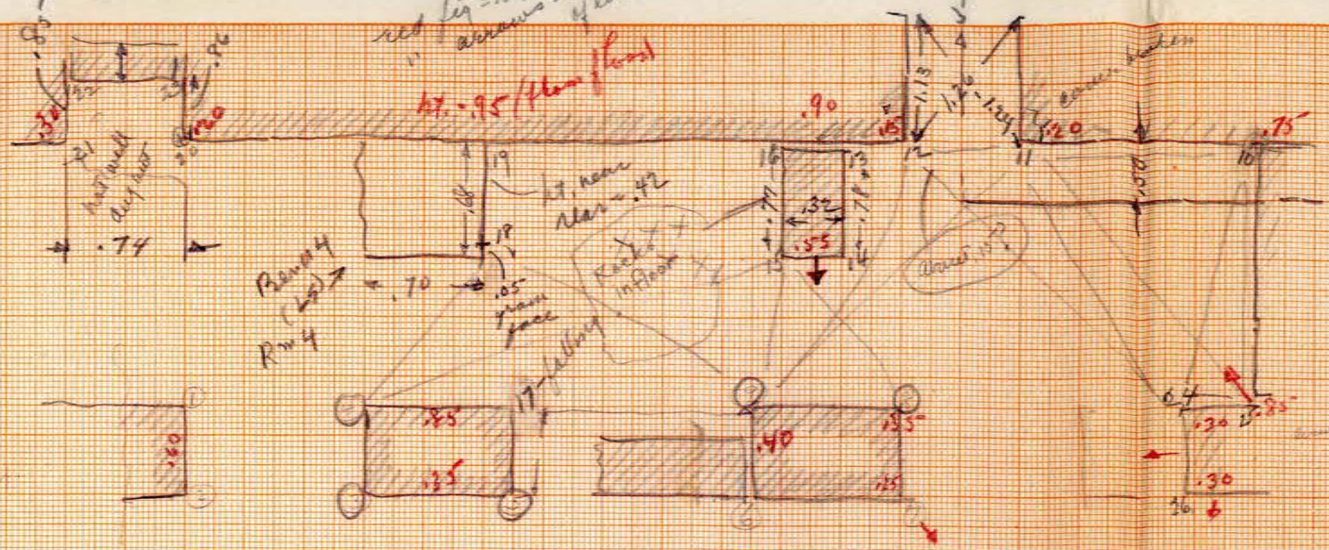


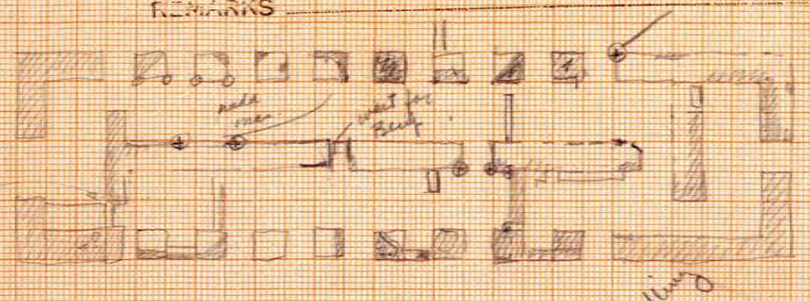
PIEDRAS NEGRAS 193 STR. 1-12

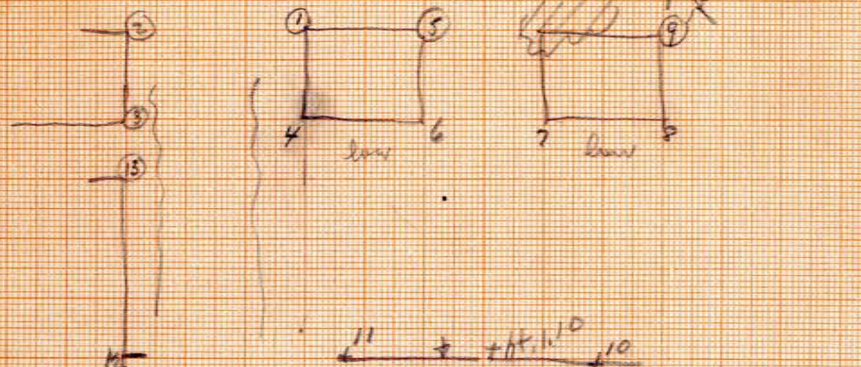
CT. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS





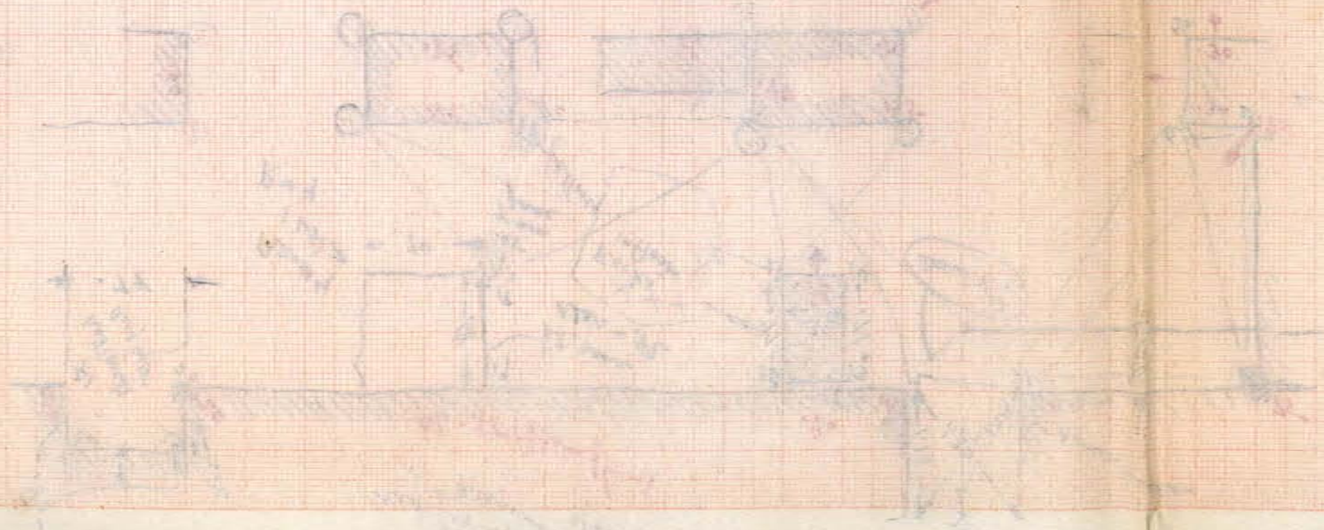


1 –
2 –
3 –
4 - 1.67 (1)
5 –
6 –
7 –
8 –
9 - 4.56 (1).
10 - 2.37 (24) 2.27 (25)
11 - 3.26 (9) .65 (12) 1.51 (10)
12 - 2.80 (9) 2.30 (8) 2.60 (24)
13 –
14 - 1.72 (9) 1.56 (8).
15 - 5.34 (1) 1.56 (9) 2.61 (18) 1.65 (8)
16 –
17 - 2.24 (1) 4.67 (9)

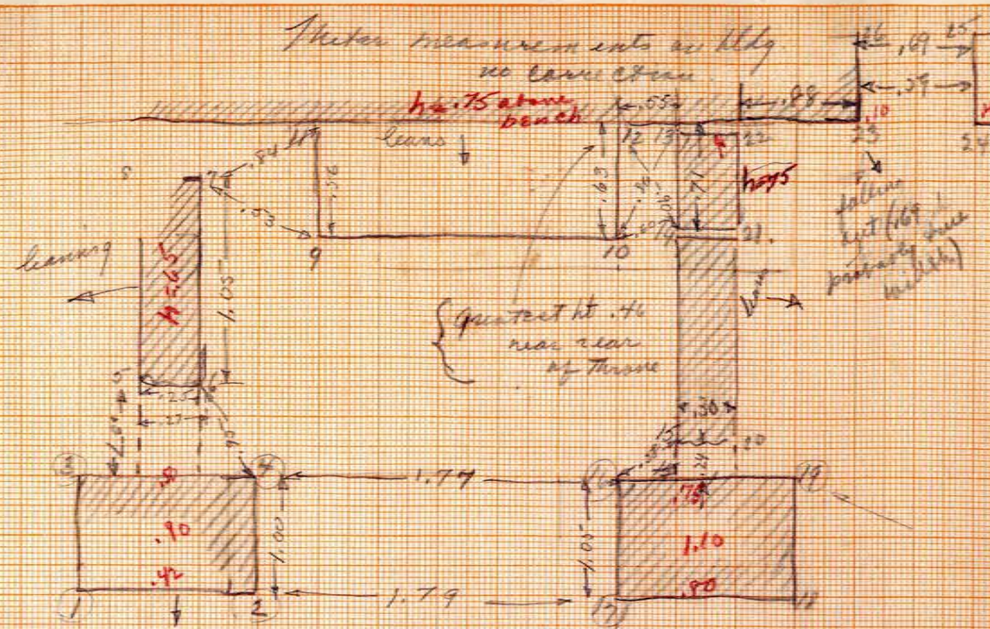
14 - 2.95 (1) 2.66 (9).
15 - 2.71 (15) 2.57 (16)
20 - 2.14 (1) 1.15 (9).
21 - 2.27 (1) .580 (9)
22 –
23 –
24. 2.34 (11) 2.60 (12) 1.60 (8).
25 - (.87 (24)

1 - 2.06 ½ (3)
4 - 1.70 (3) .87 (1)
6 - (1.25 (4) [1.05 (5) at bottom) 1.00] / see 11-36 1st floor
7 - 2.04 (5) 1.75 - (6)
8 - 3.03 (6) 1.20 (9) at 1st falling / 1 forward
10 - 2.73 (8) 2.34 (7) 2.82 (6) 3.75 (4) 4.82 (13)
11 - 4.33 (6) 3.31 (7) 2.34 (6) 2.37 (4) 1.78 (13)
12 2.26 (11) 1.48 (13) 2.26 (3)

KEUFFEL & ESSER CO., N. Y. NO. 359-14L Millimeters, MADE IN U.S.A.



Meter measurements are likely not correct



Ledge .05 to take

1 –

2 – 2.02 (16).

3 –

4 – 1.98 (17)

5 –

6 – 1.24 (9).

7 – 2.42 (16) 1.76 (4)

8 –

9 – 2.56 (16) 1.75 (4) 1.82 (16)

10 – 2.39 (4) 1.65 (16) 1.57 (15)

11 –

12 –

13 –

14 – 2.76 (4) 1.65 (16) 1.31 (15)

15 – 2.26 (4) 1.51 (16)

16 –

17 –

18 – 1.68 (53) 1.98 (16) 2.05 (21)

19 – .98 (18) 1.03 (27)

20 –

21 –

22 –

23 – 2.39 (19) 4.73 (38)

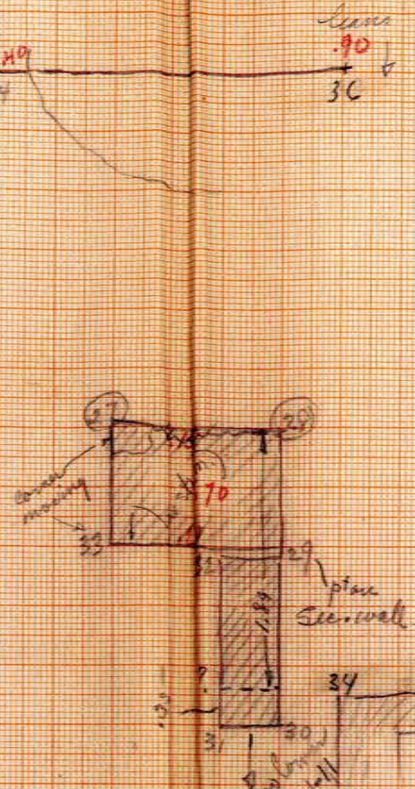
24 – 2.61 (19) 4.23 (38).

25 –

26 –

27 – 2.05 (18)

28 –



29 – .99 (28)

30 – 3.11 (18) 2.20 (28) 2.86 (38).

31 – 2.75 (18).

32 – 2.56 (18)

33 – 1.97 (18)

34 – 2.09 (38) 1.09 (29)

35 –

36 – 2.40 (38) 2.11 (27) 4.60 (19).

37 – 1.16 (21) 1.73 (29) 1.03 (38)

38 – 1.65 (39) 2.01 (29).

39 –

40 –

PIEDRAS NEGRAS April 1937 STR. J-11

OP. No. MUSEUM CAT. .82 (44 → 45)

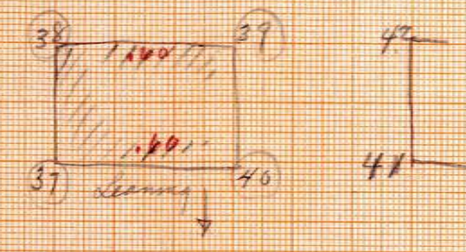
SCALE SEE PHOTO Nos.

REMARKS Throne room facing end of J-11

44 & 45 falling down way.

44 ht. 65

45 ht. 70



44 – 3.49 (43) 3.58 (38) 5.03 (40) (28)

45 3.39. (43) (40)

{4.24. (38) 5.77 (28)

KEUFFEL & ESSER CO., N. Y. NO. 360-14L Millimeters. MADE IN U. S. A.

J-12

(6)

J-12

plan

PIEDRAS NEGRAS July 30 193 STR. J-12

CT. No. MUSEUM CAT.

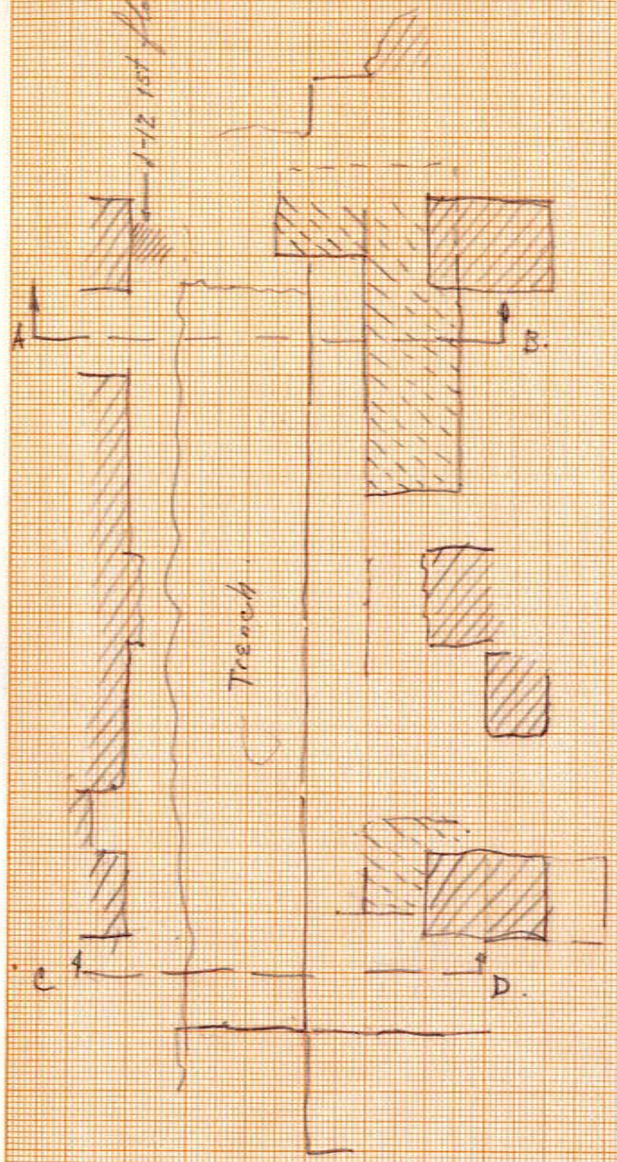
SCALE SEE PHOTO Nos.

REMARKS Sections of J-12 and original platform.

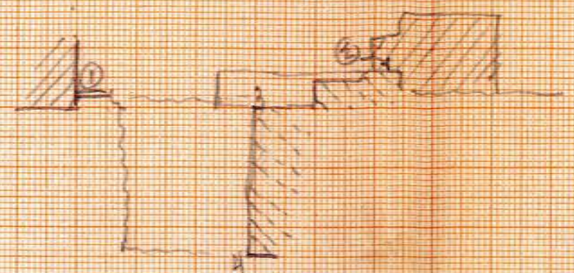
Plan.

= J-12 1st.

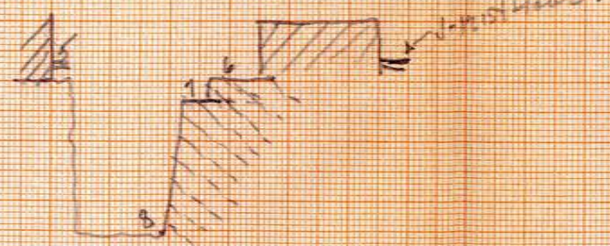
= J-12 2nd.



Section A-B.



Section C-D.



Levels.

1 - 1.38

2 - 1.31

3 - 1.50½

4 - 2.34

5 - 1.52.

6 - 1.57

7 - 1.72.

8 - 2.75½

Plinth in line with 5 = 1.63½.

" near 1 = 1.46.

KEUFFEL & ESSER CO., N. Y. NO. 359-14L
Millimeters,
MADE IN U.S.A.

J-12
(1)

J-12 (section)

PICTURES NO'S _____ 193___ STR_____

CAT'S _____ MUSEUM CAT _____

SCALE _____ SEE PHOTO Nos _____

REMARKS _____

J-13.

① - Location of pts. for measuring plan.

② - Plan, 1936.

③ - Levels. Front & rear elevations. Pt. A of J-13 is on lower edge of cornice, shown on rear elevation (not to be confused with A of J-11 on stake.

④ - Plan of ~~room~~ room facing court H and adjoining terrace.

⑤ - Plan of end room. Inset - Location of pt. D.

⑥ - Sections - upper right - level of roof.

Levels. – 0 = recised cross V-9.

Plinth – door nearest to terrace on facade facing Court II = ~~+.50~~ +.52

Lowest pt cornice – same facade = ~~+2.84~~ +2.86.

Level on roof. = ~~+4.58~~ 4.40

Level lowest pt. upper moulding = 3.95

Plinth door nearest terrace, facade facing away from Court II = +.36

Plinth – End door = +.43.

J - 13

Points of Interest

Subtract 4.00 m.

A = 12.69 (J-12 pt. X) 12.39 (J-12 pt. XI) 19.77 (J-11 pt ω)

B = 16.37 (X) 9.76 (XI) 11.56 (C)

C = 9.40 (X) 14.05 (XI)

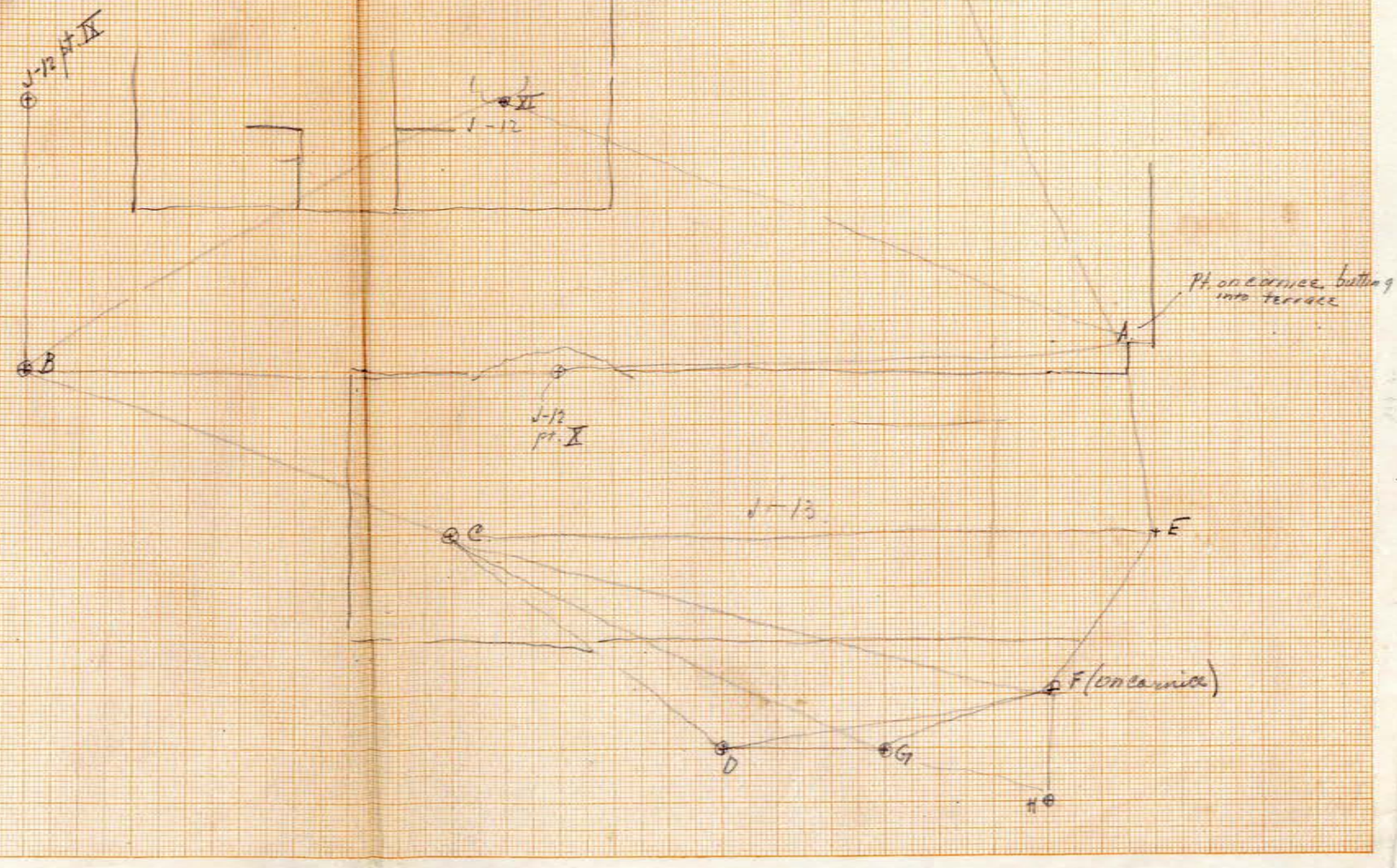
E = 8.41 (A) 16.20 (C) 6.67 (F)

F = 15.04 (C)

G = 10.26 (F) 13.79 (C)

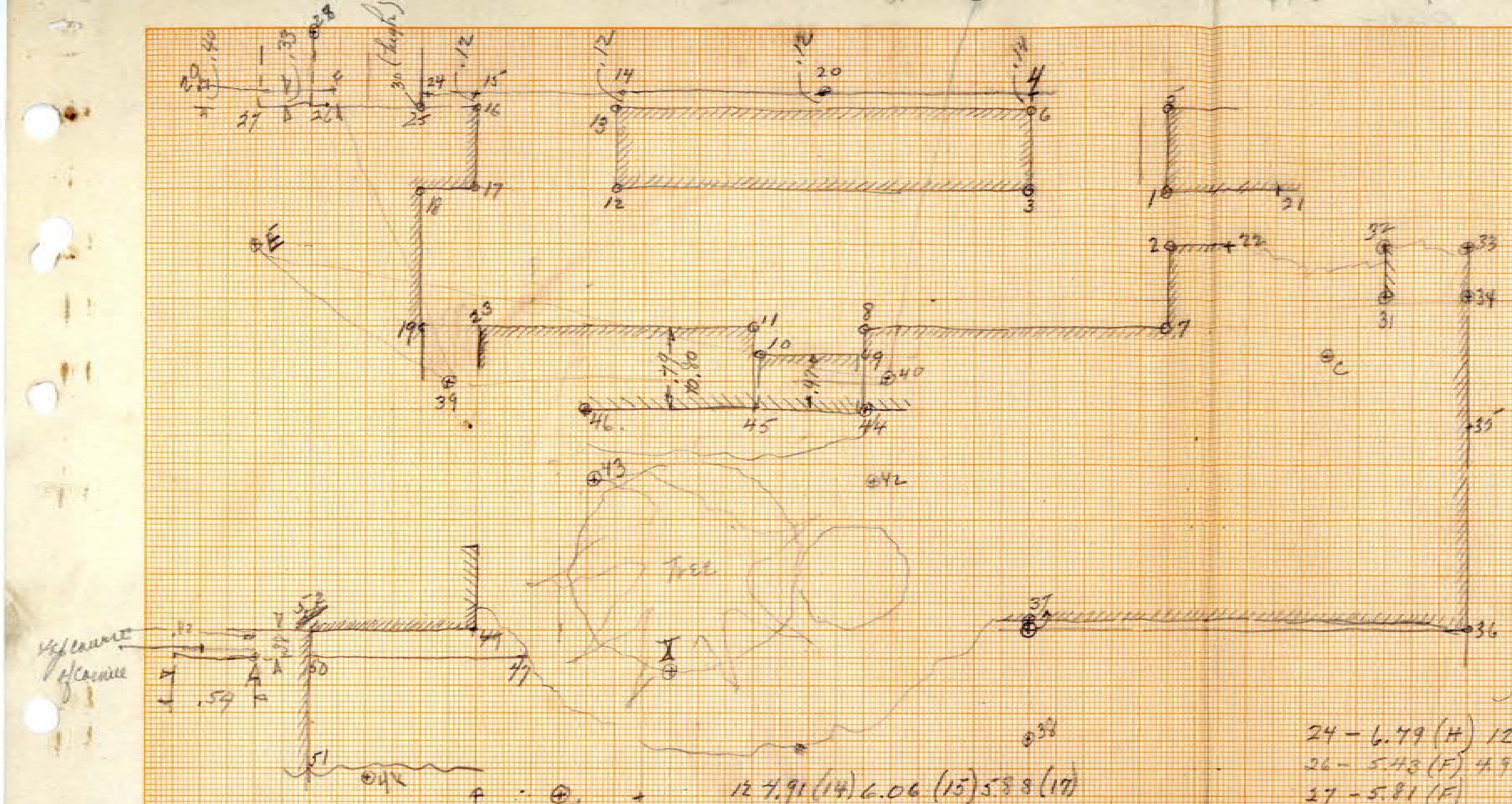
D = 12.36 (F) 11.33 (C) 7.30 (G)

H = 6.39 (F) 8.52 (G) 11.29 (D)



KEUFFEL & ESSER CO., N. Y. NO. 359-141
Millimeters.

(H) (G) 3.78 (D) 5.71



J-13

Tape measurement
Subtract 4.00 m.

47 6.37 (39) 6.93 (A) 6.59 (41)

48 7.94 (39) 5.13 (A) 8.00 (41) 6.19 (47)

49 4.40 (47) .10 from plinth.

50 4.94 (48) 5.94 (47 .06 to wall)

51 6.26 (47) 4.80 (50).

Note: check measurement maybe confused with D)

1- 8.86 (D) 7.10 (C) 12.54 (H/G) 4.88 (5)

2- 9.67 (D) 6.13 (3). 4.79½ (1)

3- 9.07 (D) 6.13 (5) 4.95 (4) 5.91 (1)

4- 8.15 (D) 10.50 (H/G) 5.84 (5) 6.03 (1)

5- 8.00 (D) 7.65 (C) 12.21 (H/G stake)

6 5.89 (5) 6. 4.81 (3)

7 6.53 (3) 5.61 (1)

8 6.09 (3) 6.94 (12) 8.17 (23)

9 4.37 (8) 1.01 (11) 4.95 (10)

10 4.32 (11) 5.01 (8)

11 6.82 (3) 6.24 (12) 7.22 (23) 4.95 (9)

12 4.91 (14) 6.06 (15) 5.88 (17)

13 7.88 (4) 5.96 (15) 4.78 (12)

14 7.32 (H/G) 9.27 (G) 10.60 mid (D) 8.01 (4)

15 6.77 (H/G) 10.20 (G) 12.05 (D) 9.73 (4) 5.90 (14).

16 9.74 (4) 5.73 (14) 5.85½ (12).

17 5.96 (14) 4.89 (15) 4.77 (16)

18 4.73 (17) 5.87 (23) 5.32 (19)

19 4.94 (23) 5.55 (17)

20 8.78 (H/G) 9.09 (D) 8.82 (G) 5.97 (4)

21 4.73 (1) 5.08 (2)

22 -5.12 (1) 4.74 (2) 4.83 (21)

23 -5.71 (17) 9.76 (3)

24 - 6.79 (H) 12.56 (G). 10.28 (4). 4.14 to wall of bldg. 4.04 to terrace

26 - 5.43 (F) 4.97 (28) 7.34 (H)

27 - 5.81 (F) under cornice. 5.08 (28)

28 - 5.64 (F) 6.65 (E) 4.94 (29) 7.68 (4)

29 - 6.03 (E) 6.20 (F)

30 - 5.30 (26) 6.83 (H)

31 - 6.82 (1) 10.11 (D) 11.76 (B) 5.61 (C)

32 - 6.84 (1) 9.69 (D) 12.00 (B)

33 - 10.69 (D) 10.98 (B) 5.87 (C)

35 - 10.18 (B) 5.92 (36).

36 - 10.25 (B). 8.49 (33) 11.08 (II and 1-12) 6.45 (I/2 of 1-12)

37 - 6.74 (36) 6.44 (B) 6.48 (38)

38 - 7.10 (I of 1-12) 8.78 (21) 7.53 (36).

39. 7.21 (E) 8.08 (F)

40 10.45 (E) 7.63 (39) 11.67 (D)

41 8.45 (39) 8.81 (40) 9.05 (A) 8.01 (I)

42 5.02 (40) 7.56 (39) 7.85 (41)

43 7.16 (40) 5.65 (39) 6.85 (41).

44 - 4.90 (42) 7.18 (43)

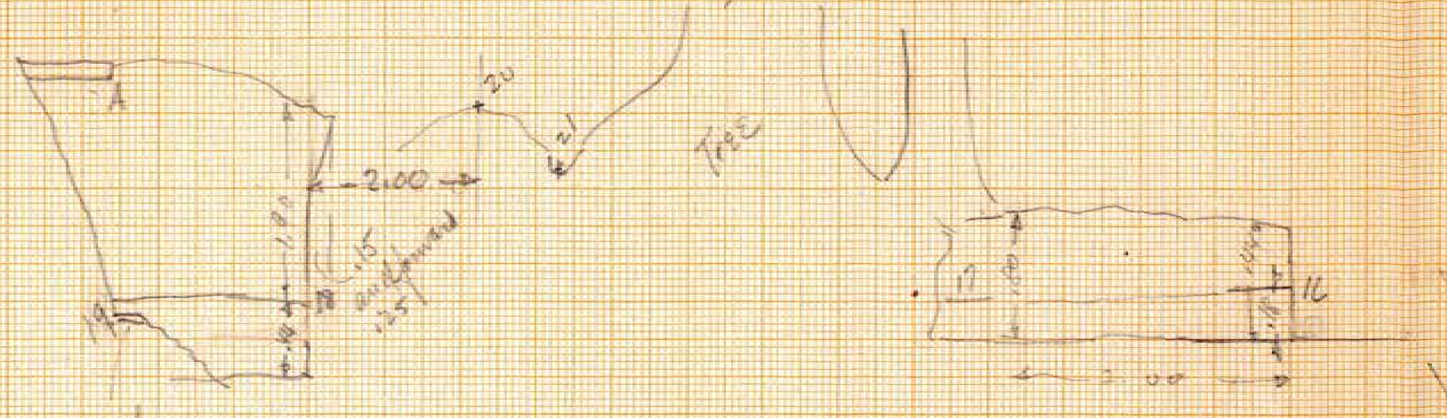
45 - 5.12 (42) 4.91 (44) 6.41 (43)

46 - 6.76 (42) 5.93½ (45) 5.49 (43)

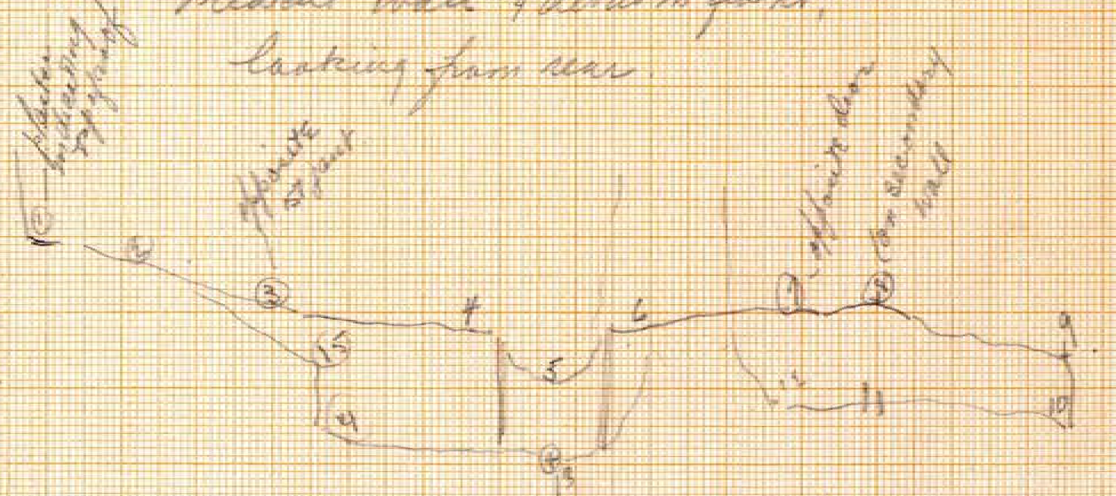
J-13
(2)

J-13
plan

Rear Elevation facing J-12



Medial wall & debris in front, looking from rear.

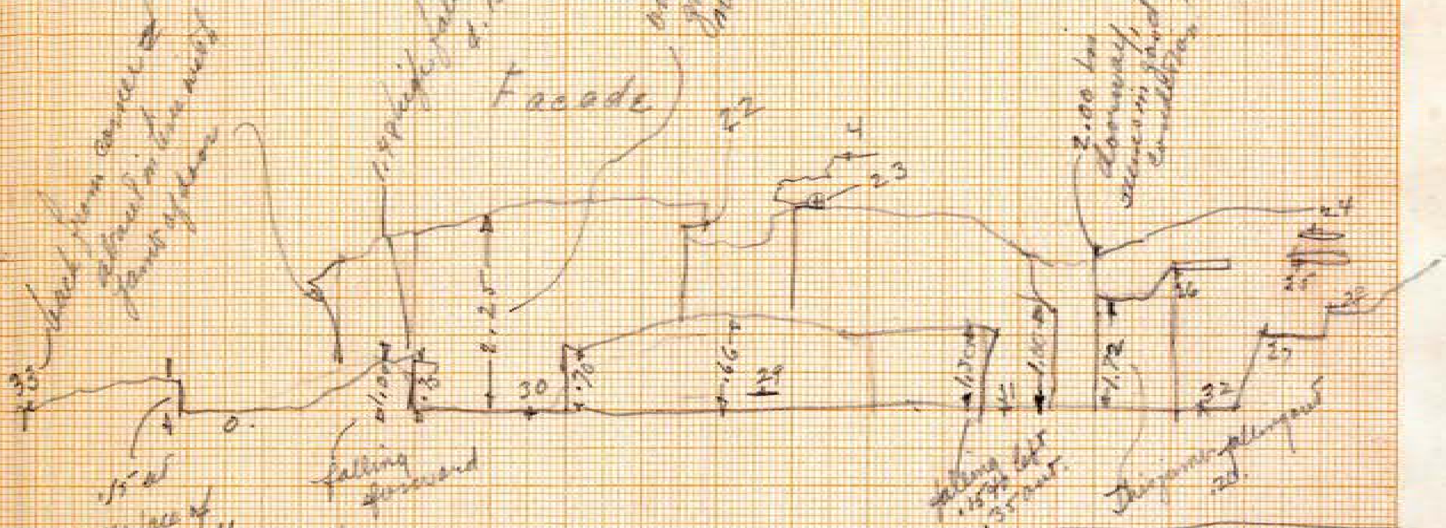


J-13

6/25/36

Section & elevations.

Facade



Pt A of J-11 = 1.47
Pt. A of J-13 = .01

Pt A of J-13 = 1.73½

pt. 1 = .12
pt 2 = about .75
pt 3 = 1.52
4 = 2.09
5 = 2.61½
6 = 2.03
7 - 1.94
8 - 2.35
9 - 2.76
10 -
11 -
12 -
13 - 3.12
14 - 3.04
15 - about 2.15

16 = 2.54
17 = 2.42
18 = 2.35
19 - 2.50

20 = 2.69
21 = 3.05
22 - 2.43
23 = 2.37½
24 - 1.47½
25 - 1.14½
26 - 2.04+
27 - 3.01
28 - 2.56

Pt 22 = .42
Pt 23 = .37½
Pt 27 = 1.01
Pt. 29 - 2.15 (on slate floor in central doorway of medial wall)

30 - 2.31
31 - 2.26
32 - 2.25
33 - 2.34

1.01
37
.64

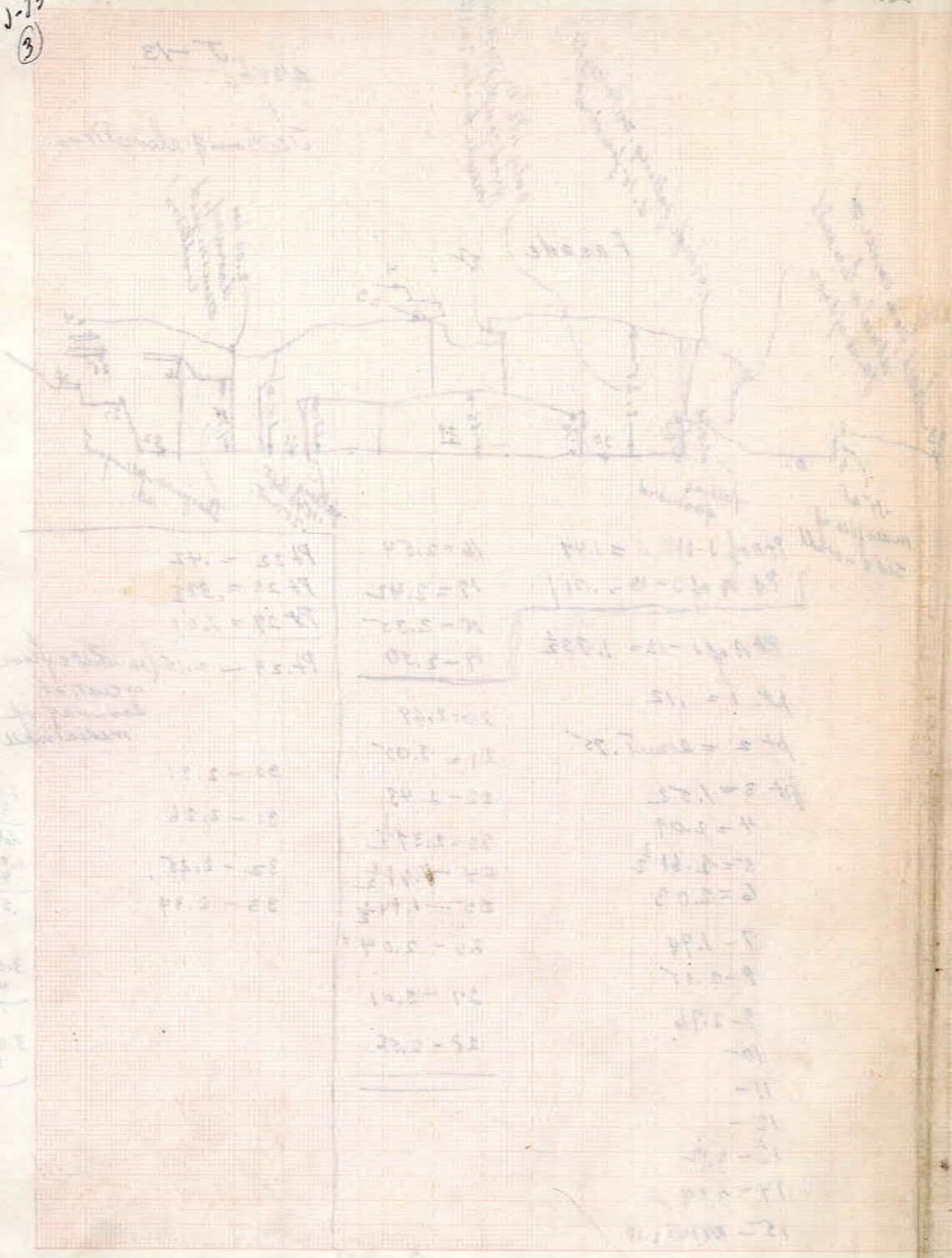
1.01
42
.59

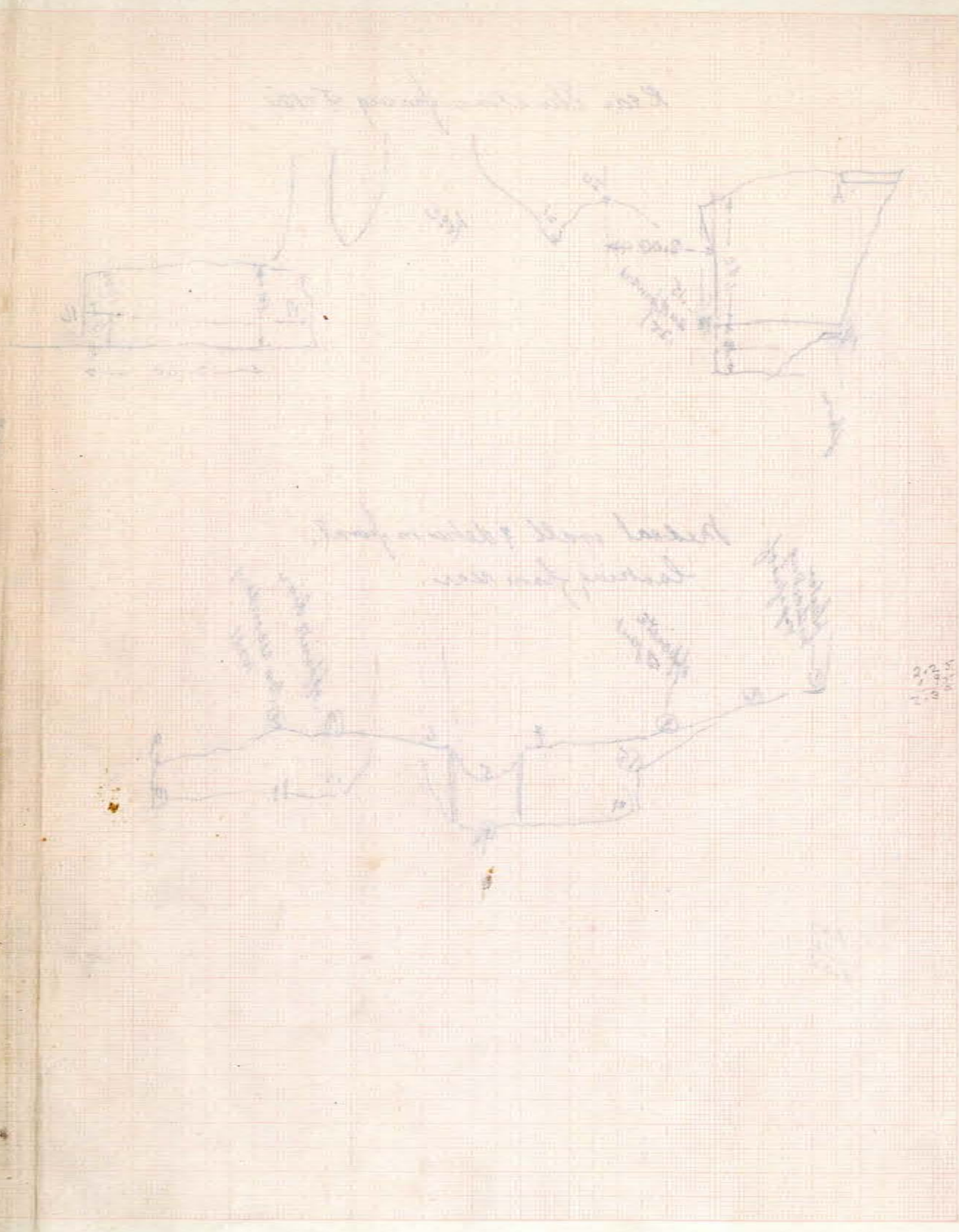
3.01
43
1.58

3.01
35½

J-13
Sections

J-13
(3)





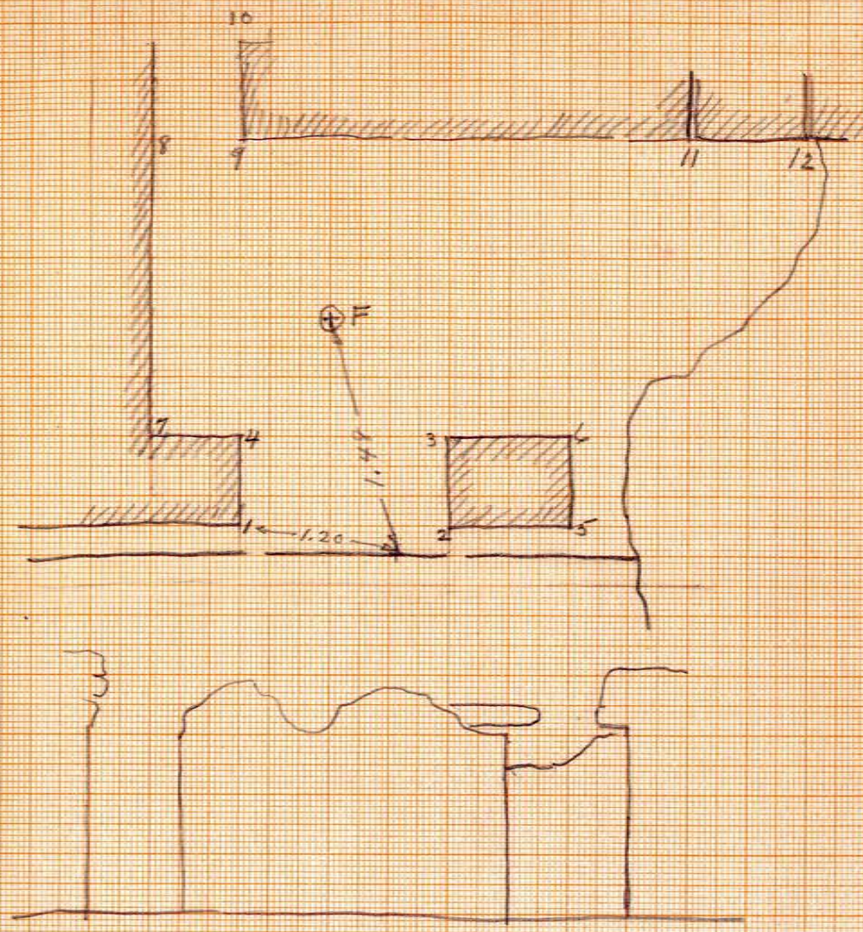
PIEDRAS NEGRAS April 1937 STR. J-12

CAT. NO. _____ MUSEUM CAT. _____

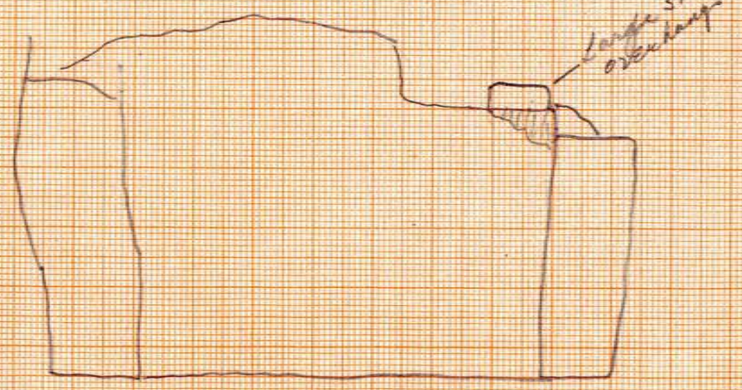
SCALE _____ SEE PHOTO Nos. _____

REMARKS Room facing Court II

Add .05 to tape meas.



Medial wall.



Transverse wall

F = 1.60½(1) 1.67½(2)

Add .05

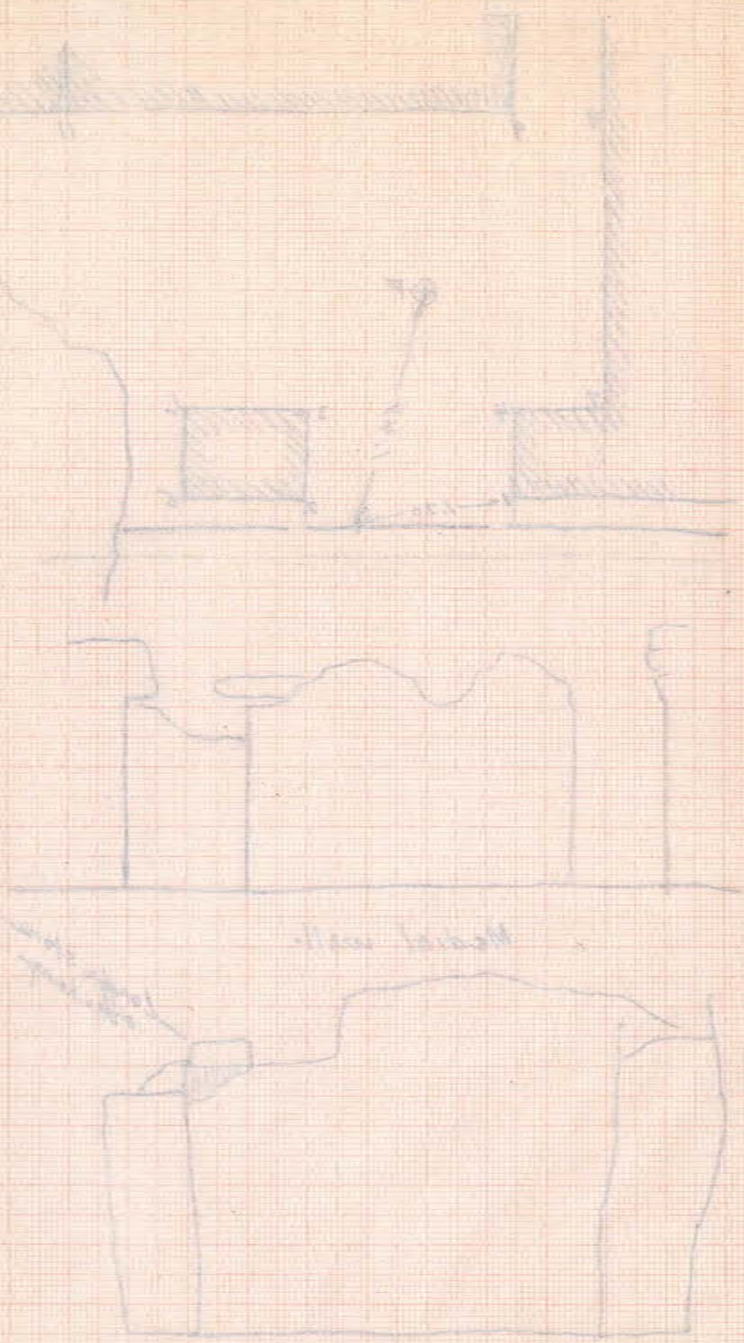
1			
2		61°37' L. (F-1)	
3	1.11 (F)	.73 (2)	88°24' L (F-1)
4	1.01 (F)	21°39' (F-1 int.)	
5	circ. 44 (2)	.74 (6)	
6	2.00 (F)	104°34' L (F-1)	
7	1.66 (F)	31°22½' (F-1)	
8	2.40 (F)	107°10' L (F-1)	
9	1.27 (F)	112°36½' L (F-1)	
10	.71 (9)		
11	2.04 (F)	144°30' L. (F-1)	
12	3.55 (F)	139°38' L (F-1)	
13			
14			
15			

KEUFFEL & ESSER CO., N. Y. NO. 359-144. Millimeters. MADE IN U. S. A.

J-13

J-13

Plan



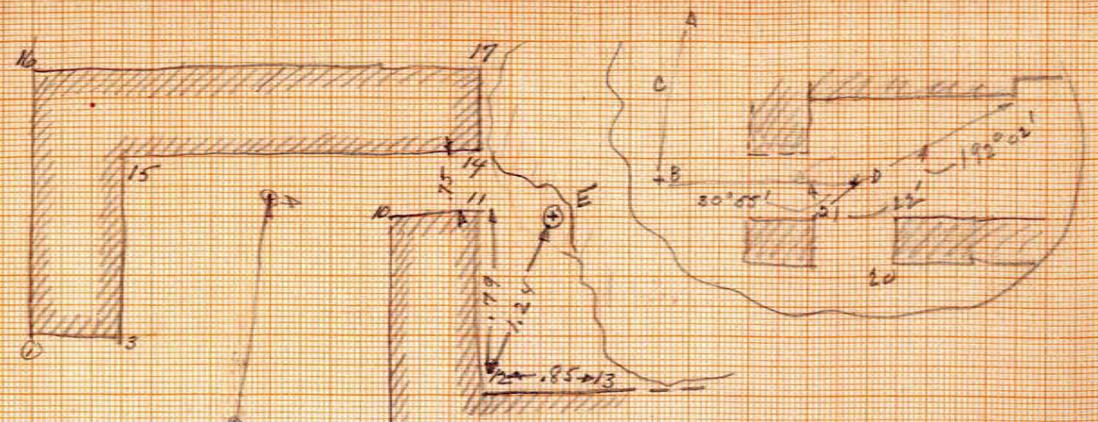
PIEDRAS NEGRAS 193 7 STR. J-13

CT. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS End room.

Add .05 to all tape measurements.



1.	B-3.04	C-1.66.	∠BA-31°30'	
2.	C-1.95	2.82-A		
3	B-2.77	∠BA-15°30'	.81A	
4	B-.89	C-1.41		
5	A-3.69.	.47(B)	5°25'(DB)	
6	Dia. .97(B)	12°.37'DA.	2.29D.	
7				

8

9 B-1.30 ∠BA-63°05' ∠AB-28°53'

10 B.3.33 ∠BA-20°15' R ∠AB-88°20'

11 ∠AB-about 90°45' 1.90(A) A-2.90

12

13 E-.79 1.19(11)

14 ∠AB-113°13' A-2.61

15 B-3.83 ∠BA-12°25'

16

17

18

19

20

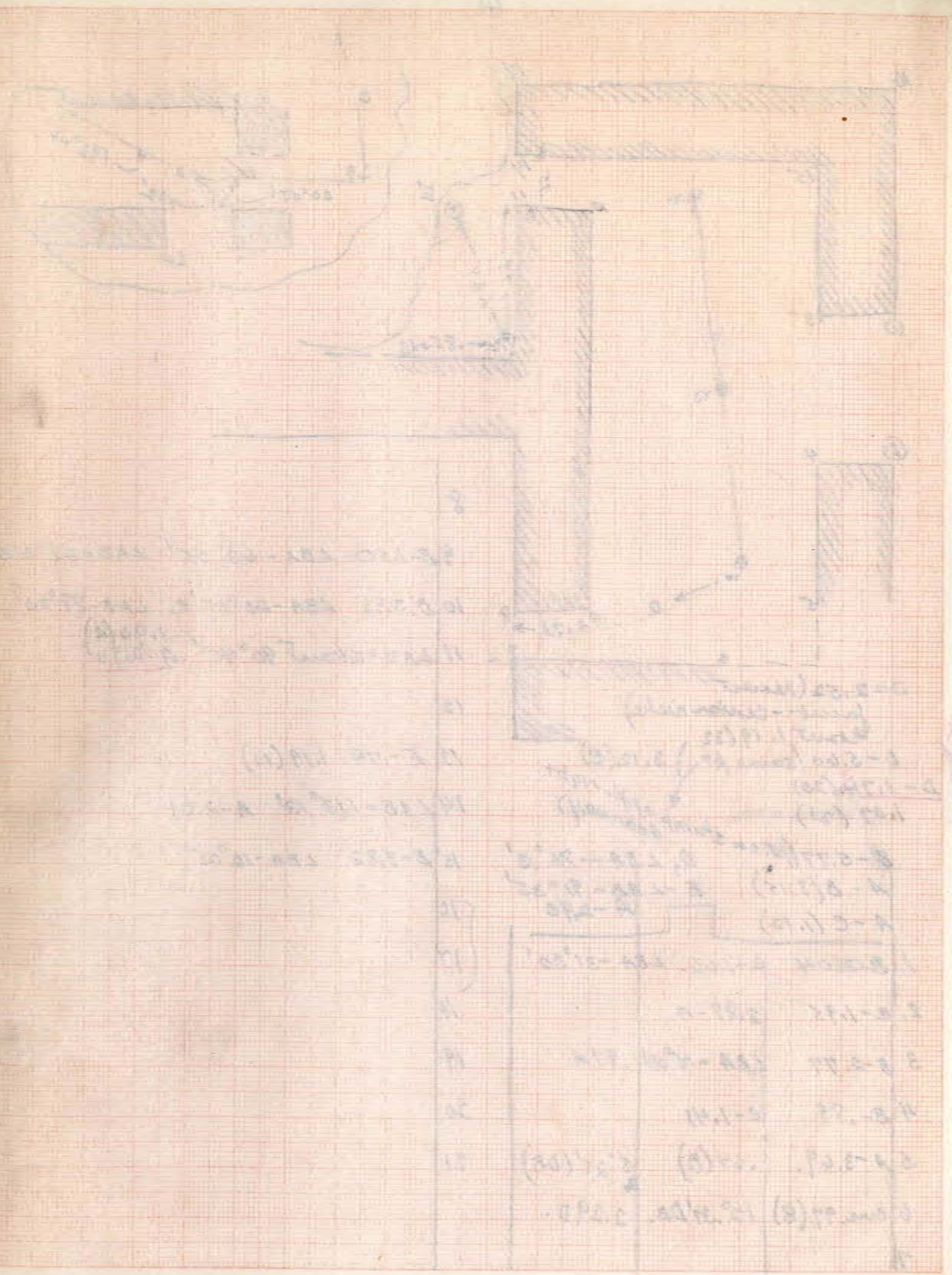
21

Correct ?

KEUFFEL & ESSER CO., N. Y. NO. 359-141
Millimeters,
MADE IN U. S. A.

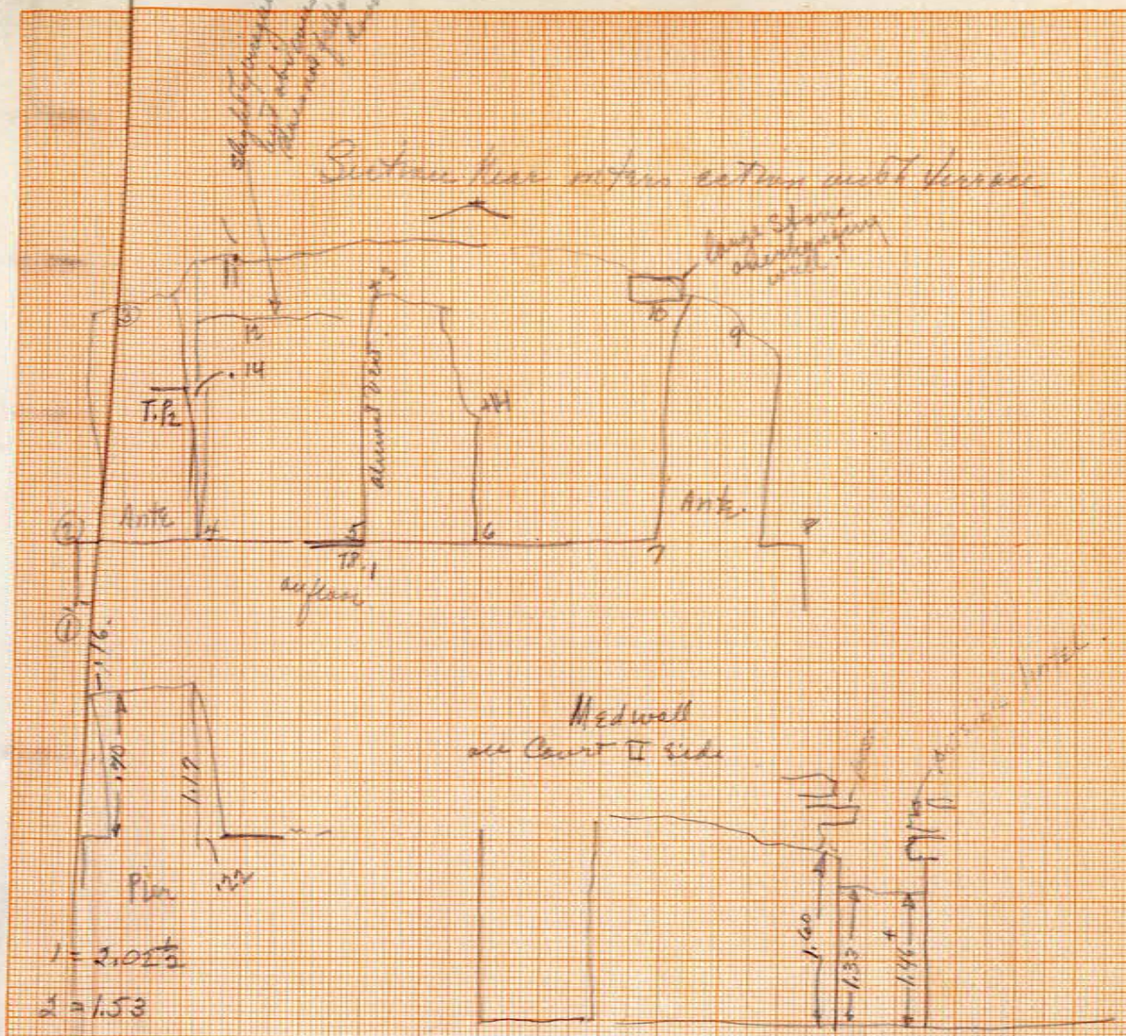
(5)

V–13
plan
Kleinasien.



June 12, 1937. Sh. J-13

Section



1 = 2.02½.

2 = 1.53

5 = 1.52½.

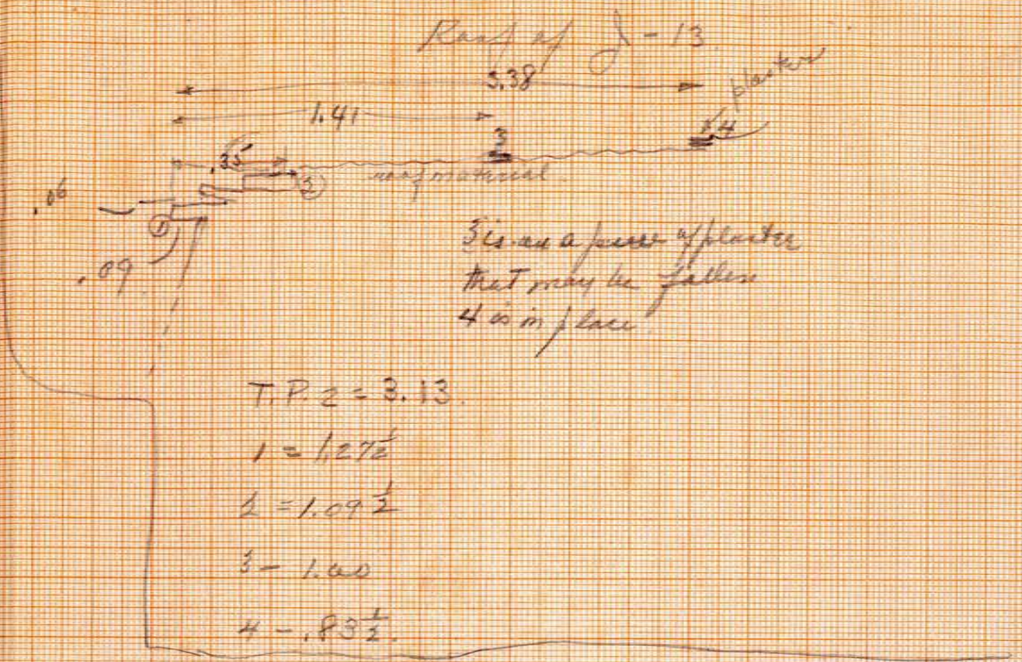
T.P.2 = .15 up.

11 = .71 up.

12 = .44 up.

3 = .30 up.

J-9 7 feet pr. on plinth in doorway to large bench room = 1.07.



T.P.2 = 3.13.

1 = level

2 = 1.09½

3 = 1.60

4 = .83½.

T.P.1 = 11.44½

Plinth in left doorway on facade facing away from Court II = 1.60½.

End room T.P. 3 = 1.32

T.P.3 = 1.25.

1 = 1.46.

2 = 1.40.

J-13
(6)

J13 (6)

Camp III

① Upper left - Stadia readings from camp II to pts. on J-21 & J-22. Sketches show location of pts. x & y. x is on plinth of J-21 3.48 from intersection with J-22. y is on corner of wall of J-22 near st. marked with incised cross & used ~~for~~ in conjunction with cross in J-9 doorway for calculating direction of true north. In this sketch, the interior vaulted entrance is shown much too close to front of door.

Below Location from Camp II of pt 2 in end door of J-21 - stadia readings.

Lower st. - section thru alleyway back of J-11 up to plinth of J-21 (pt ②) pt ① is on plinth of J-22 in doorway nearest intersection J-21 & J-22.

Extreme st. - sections of terrain back of J-11

② Triangulation from Camp II to Camp III.

③ Location of pts. on Camp 3.

Note — Pt. F = Pt C of p ②.
Pt. P = Parris pt on J-19.

Correction applied should be +.05', but another correction should be made for sag on long distances. (Not certain whether correction .05 applies to chord measurements on J-20. Check with detailed plan.)

Court III

Levels from 0 = incised cross J-9.

Plinth J-22 near intersection J-21 = +7.62
" J-21 (about 3.50 from intersection) = +8.19.
at intersection (by calculation) = +8.29.
L.S. 0 in J-21 (floor in throne rm) = +8.45.
Plinth J-22B —— = +7.35
Highest floor near med. wall J-21, rear
Excavated rm = +8.26
Plinth of same = +8.14
J-18 plinth in filled up door near J-21 = +8.10
" " " center court III facade = +8.00

J-20 - plinth at left under standing
wall — +12.68
J-20 - bottom medial wall — +12.68
J-20 - " of steps — +7.08

Pt. on debris above niche J-21 — 12.80
" " " " intersection J-21-22 — 12.42

Location of pt. on J-21 plan Point II

X on ℄ at J-11, 0 on line ℄-℄ sta. extended to pt on J-21 plan to be y Location x =

Stadia reading on pt x = 2.05 2.05

Vert ∠ = 11°44'

Pt y = on J-22 ——→

Height pt y from ℄-℄ = 36°30'

Stadia on pt y = .50 .5°
.725 .728
Vert ∠ = 20°45'

X at R of J-11 on on line A-R

Pt. 2, horiz ∠ = readsight = 176°0'

Stadia z = 1.70 1.70
1.82 1.917
Vert ∠ = 20°32'

Location z =

Ø = 2.18
T.P.₁ = 3.65½
③ = 1.61¼

T.P.₁ = 23½
5 = 2.59½
6 = 3.29½
7 = 3.55+60
8 = 2.02
9 = 1.45
10 = 1.64
4 = .63

Pt 5 = 1.11
Pt 6 = 1.81
Pt at J-11 = 3.50½

J-21

Section A-B

Section C-D

bottom of terrace

Ch III
(1)

1-21 etc.
Stadia Lacetrium
& sections of
Terraces.

PIEDRAS NEGRAS 193 STR. Court 3

CO. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Continued Court 3, Ht from Court II

add .05 to tape measurements

† at 2 (J-9) on B (J-1).

C. on dump near Court III = 229° 12' 30"

† on B, 0 on 1/2

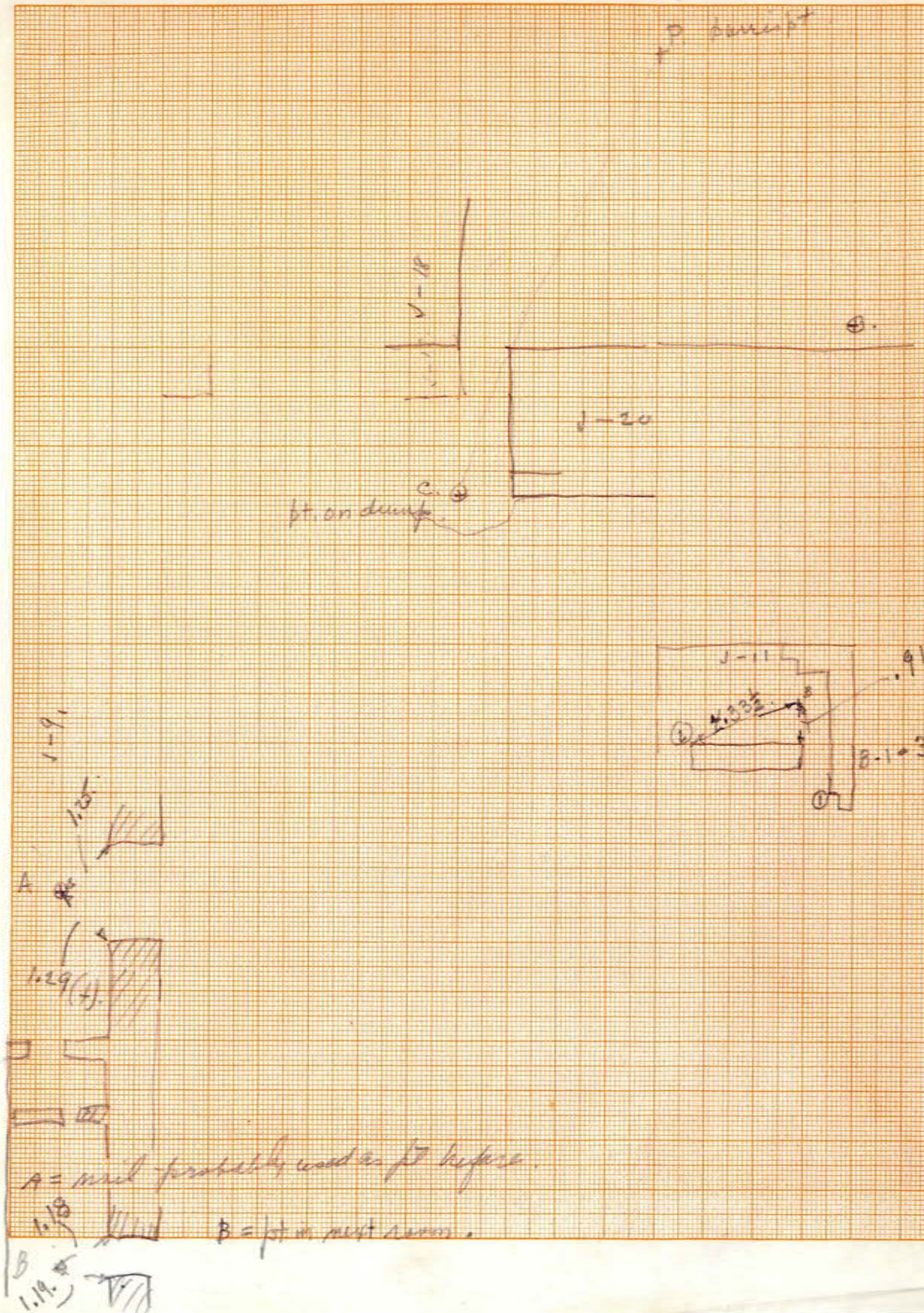
2 = 95° 12'

Court III = 158° 17'

† on C 0 on A V-9

B (J-11) = 273° 28'

P (perch pt. on J-11) = 138° 07'



Court III
(2)

V-20
Location Court III

PROVAS NEGRAS _____ 193 ___ STR _____

MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos _____

REMARKS _____

PIEDRAS NEGRAS June 25 1937 STR. J-20

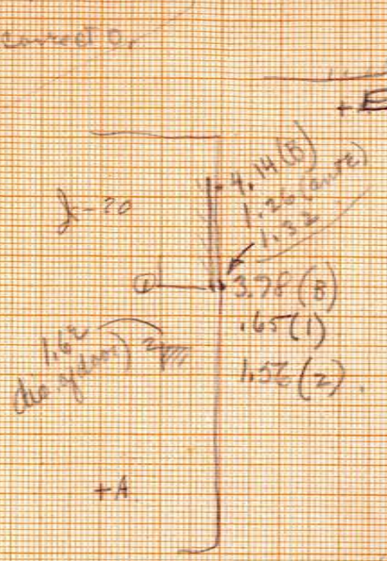
OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS Location from Pt. on J-19.

K on Pt. J-19, 0 on E

E = 01°20' (curve turned to)



Pt. 1 (corner) Hdg. wall J-21 = 49° 35' 22.5 (magnetic bearing) 2.7 — 5 +P

Pt. 2. corner Hdg. wall J-18 — 52° 37' Line across 5 wall. 21.53 (sag gauge) reading at level of debris inclining =

3 Left Pier J-18 — 113° 01' 13.18 (P).

4 — 35° 23' 24.5 (magnetic bearing) Dist P-E = 8.07 + 16.80

A = 321° 26' Dist P-F = 21.98 + 7.94.

5 — 303° 0'

6 — 303° 50'

7 — 311° 30'

Stake F — 31° 16'

K on E 0 on P. read at 59° 2' 30"

1 — 303° 04'

2 — 304° 45'

8 — 288° 43' 3.27 (E)

Court III

(3)

J-20.

(1) – Plan J-20.

(2) – Elevations.

(3) General section thru J-20 & its substructure.

Lower center Lacadan of pt. 13 = probably ~~same~~ right front corner of pier (facing Count III)

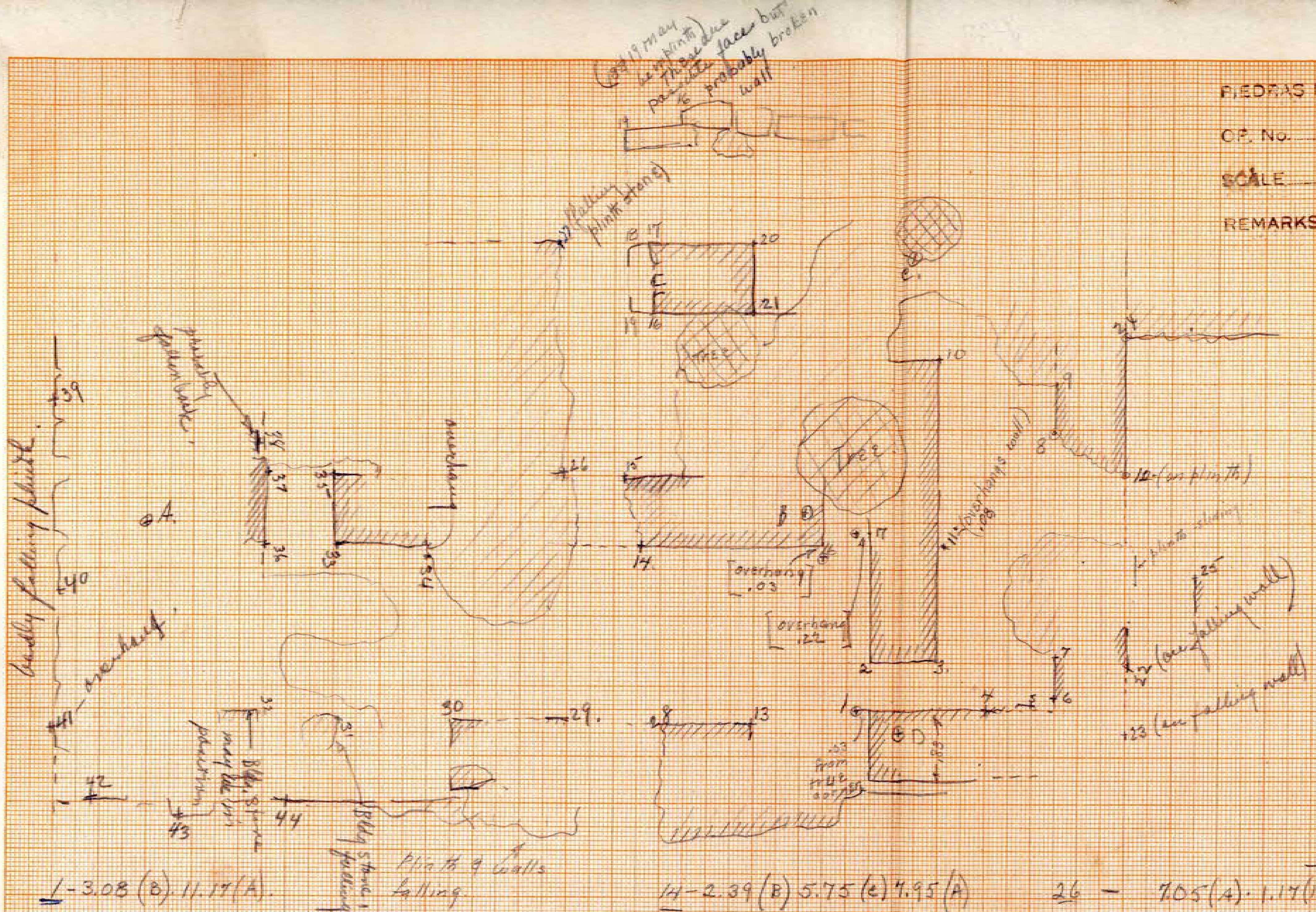
See Count III for heights

PIEDRAS NEGRAS June 26 1937 STR. J-20

CP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Add .05 to horizontal measurements unless marked (m)



⊼ at A., on Parris pt. on J-19 read at.
B = 238°55' 10.38 (A) ½ cm. allowance (make for sag)
C = 222° 34' 13.00 (A)
D - 255°34' 11.70 (A) no allowance for sag)
30 - 267°40 5.31 (A)
31 - 278°07' 3.78 (A)
32 - 283°50' 3.02 (A).
33 - 229°53' 3.68 (A)
34 - 235° 42' 4.77 (A) overhang .10.
35 - .84 (37) 1.09 (36)
36 222° 0' 2.90 (A)
37 209° 25' 3.33 (A)
38 207° 20' 3.32 (A)

1 - 3.08 (B) 11.17 (A).
2 - 1.91 (B) 3.03 (7).
3 - 2.17 (B) 2.52 (7) 1,30 (1)
4 - 3.42 (B) 1.19 (1) 1.20 (2).
5 - 4.10 (B) 1.07 (7)
6 - 4.56 (B) 3.23 (1). .53 (7)
7 - 4.21 (B) 6.11 (C) 3.31 (1).

8 5.71 (1) 2.04 (C)
9 6.34 (1) 2.65 (C)
10 1.35 (C) 2.37 (B)
11 - 3.53 (C) 1.61 (B)
12 - 4.84 (B) 4.08 (C) 3.18 (11)
13 3.56 (B) 7.75 (A)
16 - 1.77 (m) 2 ~~.42 (m)~~ 2.52 (m) 14
17 - 2.76 (1), .65 (B). .23 overhang)

14 - 2.39 (B) 5.75 (C) 7.95 (A)
15 - 2.48 (B) 5.08 (C) 8.15 (A)
20 - 2.50 (C) - 4.19 (B)
21 - 2.50 (C) - 3.34 (B)
22 - 4.07 (D) 5.45 (C)
23 - 3.47 (D) 6.18 (C)
24 - .87 (12)
25 - 1.10 (12) 1.26 (22)

26 - 7.05 (A) . 1.17 (14) 1.07 (15) 30. - 5.31 (A) 6.24 (B).
16 - 2.42 (15) 3.95 (C)
19 - 2.45 (15) 4.14 (C)
17 - 3.35 (15) 3.95 (C)
18 - 3.30 (15). 4.15 (C)
27 - 5.52 (C) . 3.66 (15
28 - 8.16 (A) 4.40 (B)
29. 1.40 (28) 3.07 (14).

39 — 83° 10' 1.23 (A) overhang .08
40 — 36° 41' 1.31 (A) " .08
41 — 8° 50' 2.28 (A) " .09.
42 — ~~336°30'~~ 352° 30' - 2.95 (A) overhang .08
43 - 336° 30 2.78 (A)
44 - 304° 0' 3.35 (A) overhang .05 (possibly .11)

V-20
(1)

DISPOSAL NEGRAS _____ STR _____

CS. NO. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos _____

REMARKS _____

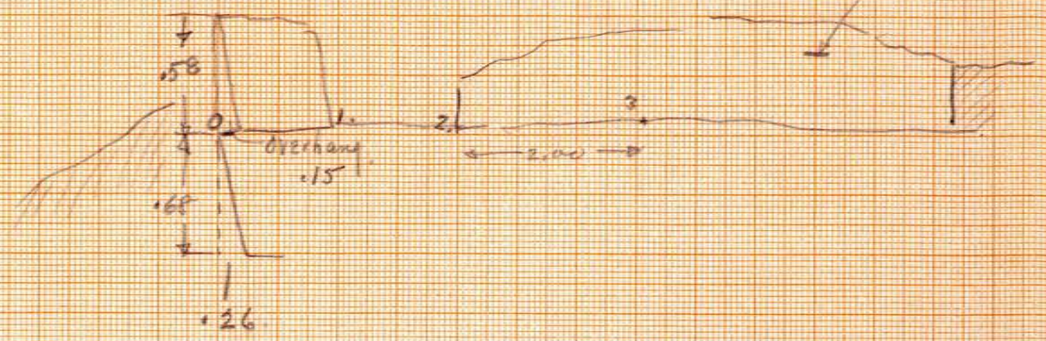
PIEDRAS NEGRAS 193 STR. d-10

OP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Sections

Section at left transverse wall



Mud wall

0 = 1.51½

1 - 1.45½

2 - 1.45½.

3 - 1.39.

5 - 1.45

6 - .77.

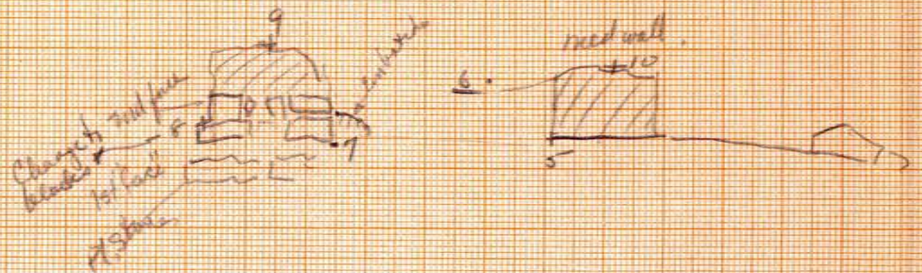
7 = 1.36½

8 - 1.34.

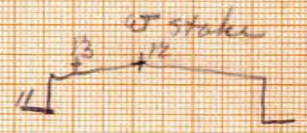
9 - .96.

10 - .56.

Section at cut.



Right wall room.



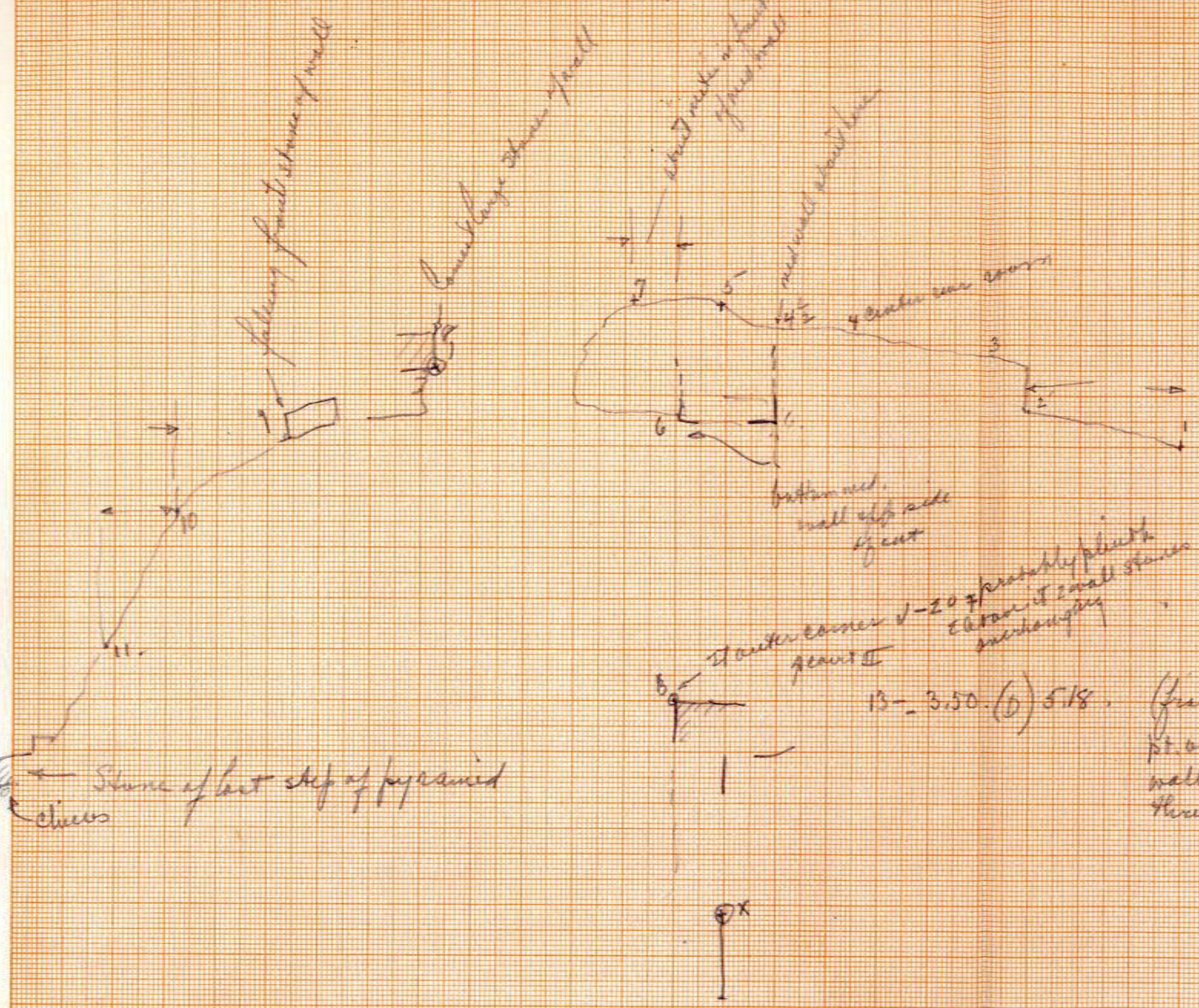
KEUFFEL & ESSER CO., N. Y. NO. 359-14L
Millimeters,
MADE IN U.S.A.

PIEDRAS NEGRAS _____ 193__ STR. V-20

OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS Section thru debris immediately to rt. of center cut facing court 3



Plinth at left where front wall is standing (as on previous section)
= 1.43

1 = 2.36
2 — 1.79
3 — 1.02
4 — .90
4½ — .99
5 — .73½
7 — .66
6 — 1.43½
8 — 1.67
9 — 1.97
10 — 2.80
11 — 3.81

11 = .46.
12 = 3.68½

Bedrock center of court = 3.33.
Plinth V-19 near NE corner — 3.66
Floor V-21 near left corner (left) pier — 2.56

(from x — nearest pt. on interior of wall beyond cut thru 3rd wall)

13 — 3.50. (6) 5.18.

KEUFFEL & ESSER CO., N. Y. NO. 359-141 Millimeters. MADE IN U. S. A.

J-20
Section.

J-20
(3)

① Upper left - plan of intersection J-21, J-22
Pts. A-B-C-D-E are located at extreme upper-right. Pt. C does not appear on plan - it is nearer end of J-21. (Not to be confused with pt. C ~~used~~ on dump used to locate J-21 from Court II)

Below - column of figures measuring plan. Immediately to rt & just below sketch are levels on debris above J-21.

Upper center. - Section of throne rm, showing elevation of throne O = pt on floor in door leading to J-22.

Lower center - Section thru J-22 showing door leading to J-21., & part of J-21 in elevation.

Right - section thru center of throne rm. J-21. Below, Longitudinal section thru throne.

② - ~~Pt~~ Upper ~~left~~ Plan of J-21, ~~facade~~ facing Court III showing intersection with round-corner.

Lower left - measurements of pts. - no correction is given - it is probably .01 per 4 meters as on previous sheet.

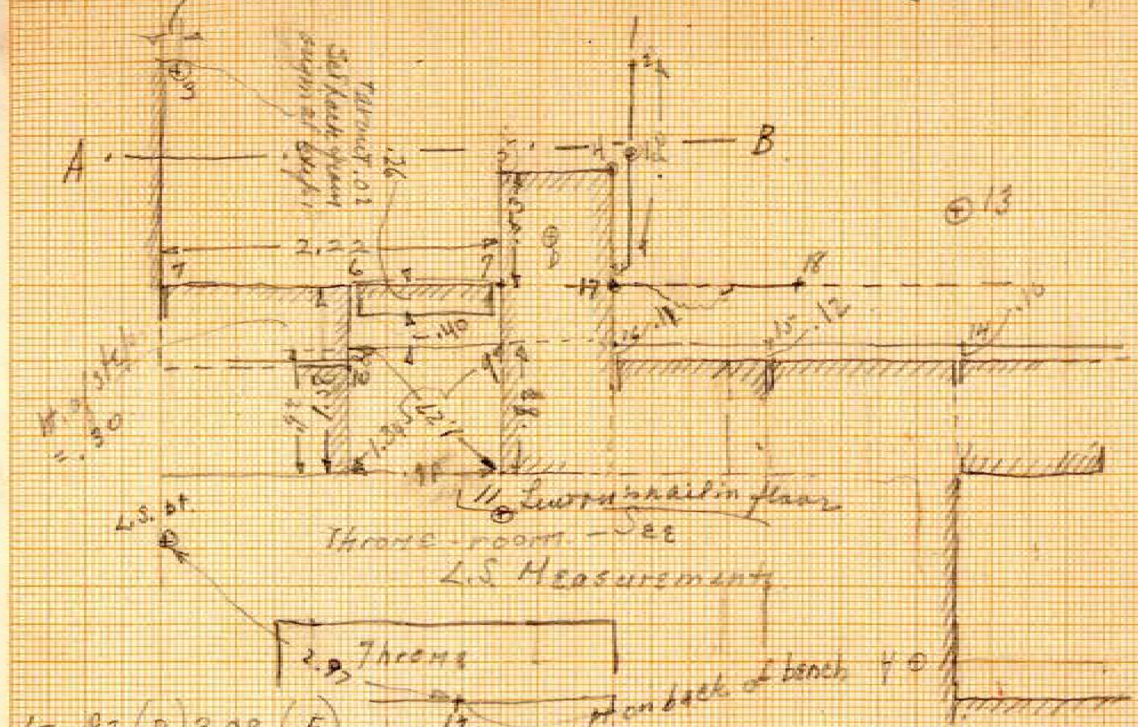
~~Lower center - Levels of pts. shown on plan. Pts 1, 2 & 3 do not refer to this plan. 2 & 3 are in end door. 1 is shown on sketch at right & is on plinth of J-22 B.~~

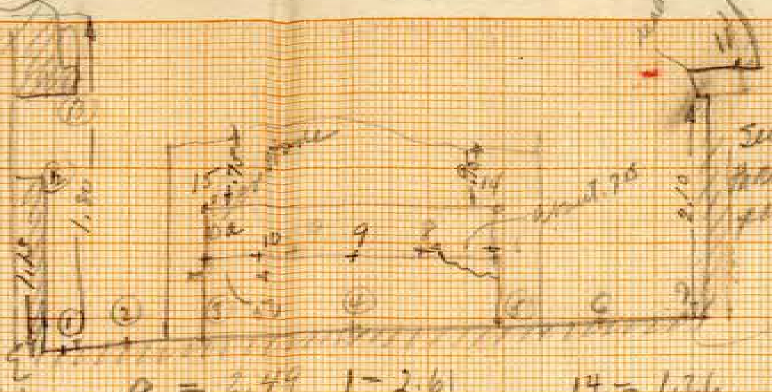
Lower center - Levels on Court III bldgs. - note that numbers do not refer to plan pts. 1 is pt on plinth J-22 B shown in section at extreme rt. 2 & 3 are pts in end door of J-21. 4 to 9 are in room shown on plan, but numbers refer to section at extreme lower right. 10-13 are on J-18 plinth & step.

For levels see Court III

J-21

Junction J-21 & J-22
See other J-21, J-22 sheets
Correction = .01 per 4.00 m





0 = 2.49
7 = 2.39
11 = 2.40
5 = 2.44
4 = 2.49
3 = 2.55

1 – 2.61
8 = 1.84
9 = 1.85
10 = 1.88
10 a = 1.92

14 = 1.26
15 = 1.29

0 = 1.28

Throne room
Vault spring in center door, R.S. pt = .10½ up
L.S. pt. vault spring near niche = .96½ up
L.S. pt. vault spring on front door of room near left corner = .98½ up
Pt. on vault spring near window .73½ up

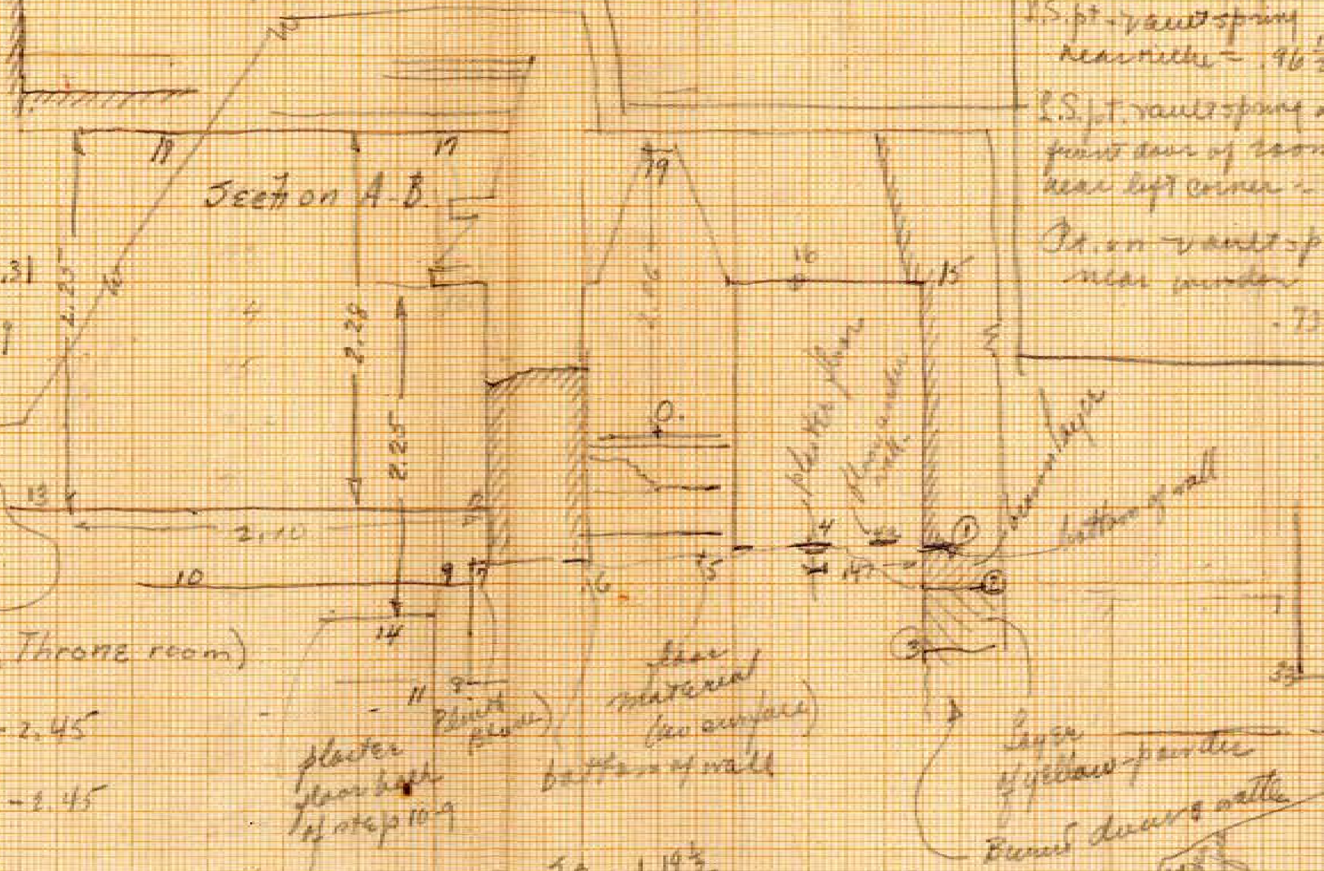
A –
B – 8.45 (A)
C – 10.39 (A) 12.00½ (B)
D – 5.58 (B) 13.07 (C)
E – 3.27 (B) 3.50 (D)

0 = 1.84

1 – .82 (D) 3.09 (E)
2 – 2.73 (E) 1.12 (D)
3 – 2.74 (E) 2.72 (D)
4 – .60 (2) 3.01 (3)
5 – 2.33 (3) .97 (2) .73 (4)
6 – 2.13 (2) 1.95 (3)
7 – 3.20 (2) 1.56 (3)
8 – .65 (6) 1.57 (5)
9 – 1.24 (5) 3.04 (3) .92 (8)
10 – .13 (8) .95 (9)
11 – 5.72 (E) 3.63½ (A) 1.96 (12)
12 – 7.45 (E) 3.97 (A) 2.97 (bench pt.)
13 – 3.36 (D) 5.13 (E)
14 – .87 (13) 3.24 (2)
15 – 1.74 (14) 2.03 (2)
16 – 2.78 (14) 1.78 (2)
17 – 1.11 (2) 2.25 (14)
18 – .65 (15) 1.68 (2)
19 –
20 –
21 –

pt. 20 back of bench center = 3.44½
pt. on debris around niche = .31
pt. on debris above intersection J-21 & J-22 = .69

Encircled measurements from 0 = .59



0 (in doorway, Throne room)
6 – 1.84
1 – 1.33½
2 – 1.43
3 – 1.53½
4 – 1.29
4a – 1.27½
5 –
6 –
7 – 2.67
8 – 3.19

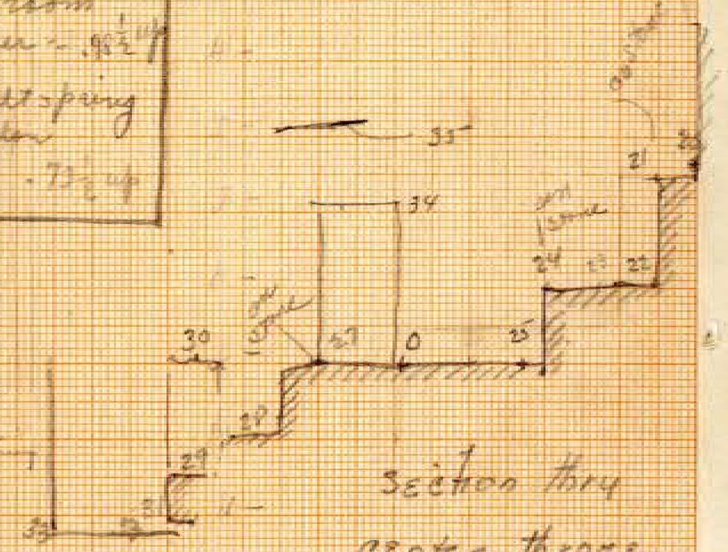
9 – 2.45
10 – 2.45
11 –
12 – 2.00
13 – 2.07
14 – 2.98
15 – .79 up
16 – .76 up — S.S. pt.

17 –
18 –
19 –
20 – .62
21 – .64½
22 – .19

23 – 1.19½
24 – 1.22
25 – 1.83
26 – 1.93
27 –
28 – 2.10
29 – 2.29
30 –

31 – 2.50
32 – 2.59
33 –
34 –
35 –
36
37

38 –
39 –
40 –
41 –

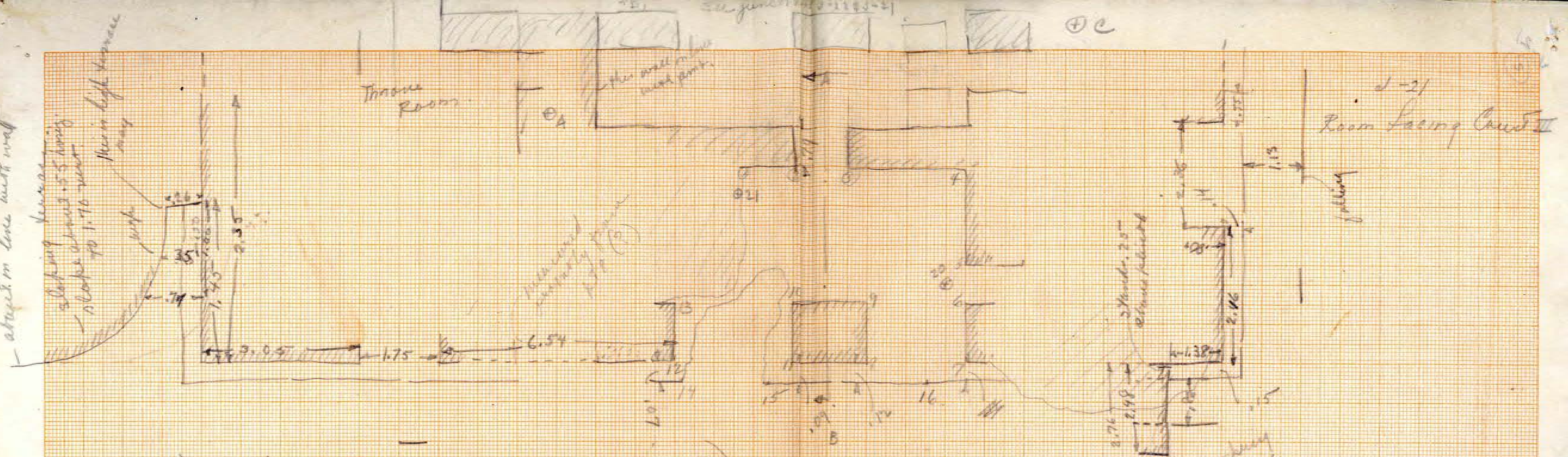


3.44½

0 = 2.49
1 = 2.42
2 = 1.82
3 = 1.84
4 = 1.87
5 = 2.53

J-21
①

J-21
Section
Plan



1- 3.28 (4) .31 (21) 3.76 (20)
2- .50 (1) 2.45 (10).
3- 1.32 (1) 2.42 (9)
4- 3.45 (21) 2.04 (20)
5- 3.76 (1) 1.68 (4).
6- 4.06 (1) 2.44 (4).
7- .74 (8) 1.78 (8)
8- 1.84 (6) .77 (9) 1.89 (6).
9- 2.26 (1) 3.03 (4) 1.74 (6)
10- 2.50 (1) 3.63 (4) 2.95 (5) .18 (9)
11- 1.01 (8) .79 (10)
12- 1.98 (10) 1.79 (11) 4.17 (3)
13- 1.76 (10) .77 (12) 1.89½ (11)
14-
15-
16-
17-
18-
19-

20- 7.78 (contree) 6.34 (A) (See J-21 J-22)
21 8.86 (C) 10.76 (B) [illegible]
22-
23-
24-
25-
26-
27-
28-
29-
30-
31-
32-
33-
34-
35-
36-
37-
38-

Levels

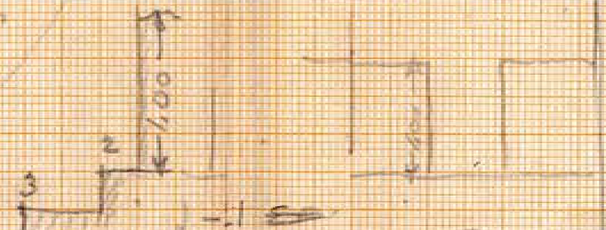
Ht. on plinth J-22 at junction with J-21 near 1st jamb
Ht. pt. = 3.27½

1 = 3.54
2 = 2.85 } End door J-21
3 = 3.55

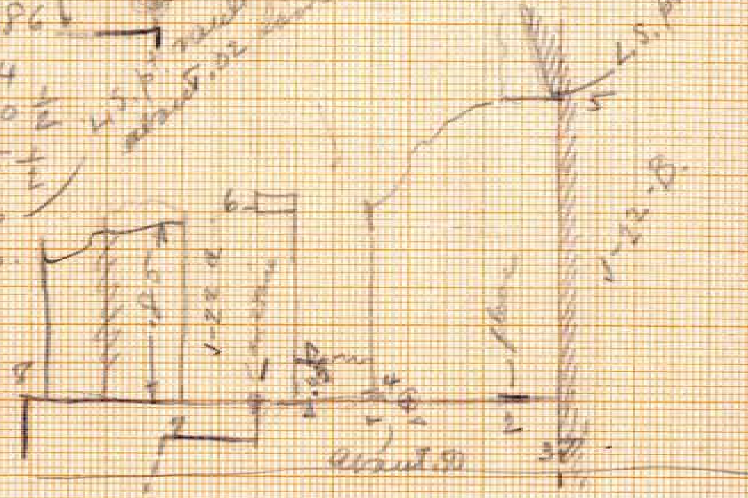
4 = 2.65
5 = 2.71
6 = 2.63
7 = 2.65½ (highest floor)
8 = 2.69 (" ")
9 = 2.75 (on stone)
} J-21 Room facing Court III

J-18

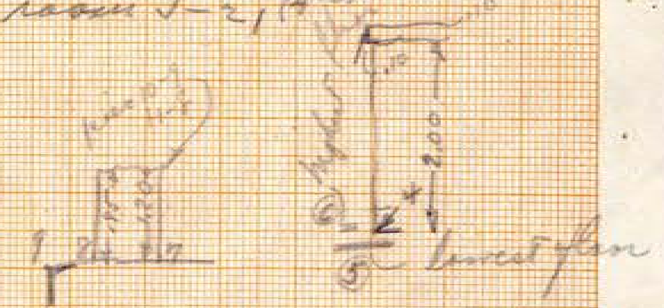
10 = 2.79 (on plinth of J-18 near jamb of filled-up doorway nearest J-21
11 = 3.61 - bottom of plinth
12 = 3.20 - Step in front of plinth
13 = 2.89 Plinth level of J-18

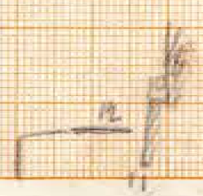


1 = 1.86
2 = 1.64
3 = 1.90½
4 = 1.65½
5 = 4.9½ up
6 = .01 up
7 = 2.14
8 = 1.83



Composite section thru rear rooms J-21 (4-8)





J-21

J-21 (2)

Rear wall, plan & sections