J-29 1/3/36

14.08

AE

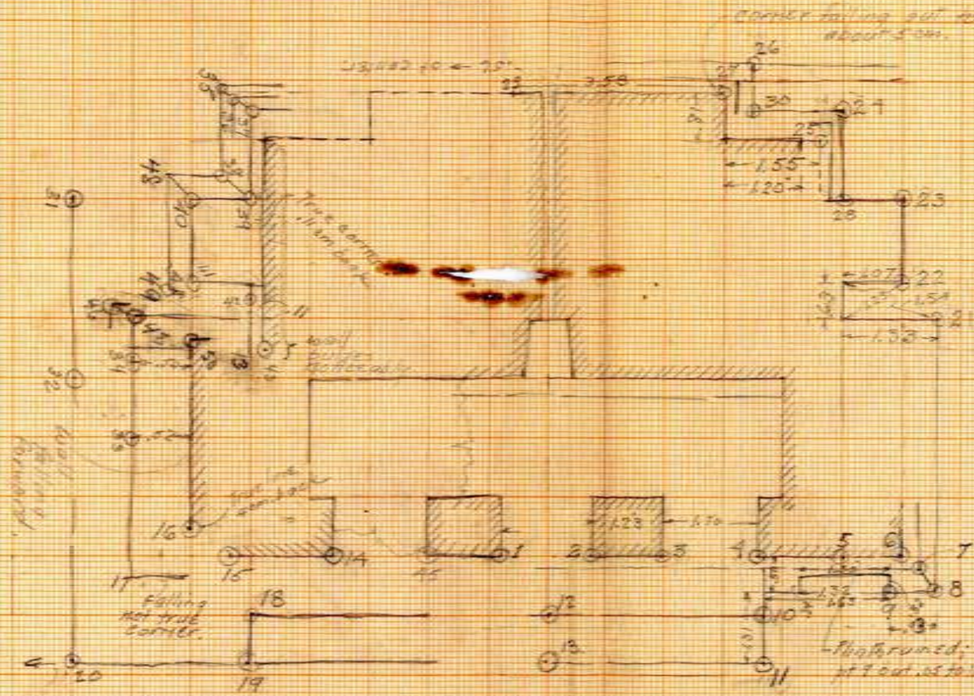
AF

AD

AC

AB

AA



1-24
plan

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

J-29.
Facade levels

Facade

Section CD.

Section AB.

Elevation

Section

Plan

Side Elevation right.

Section in niche.

Side of buttress

Front side of niche

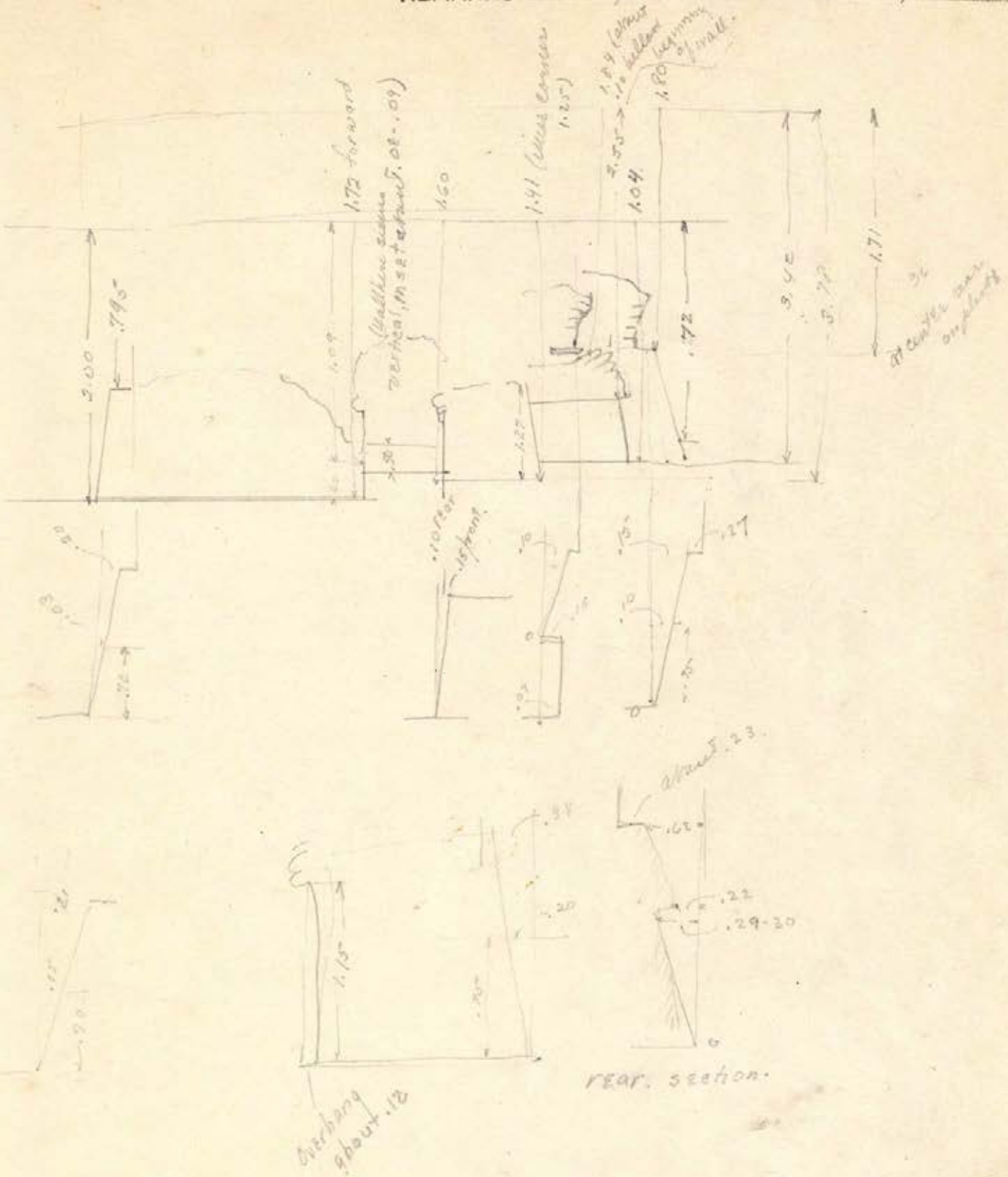
V-29
Sections

PIEDRAS NEGRAS 4/12/2 1936 STR. J-29

OP. No. _____ MUSEUM CAT. _____

SCALE none SEE PHOTO Nos. _____

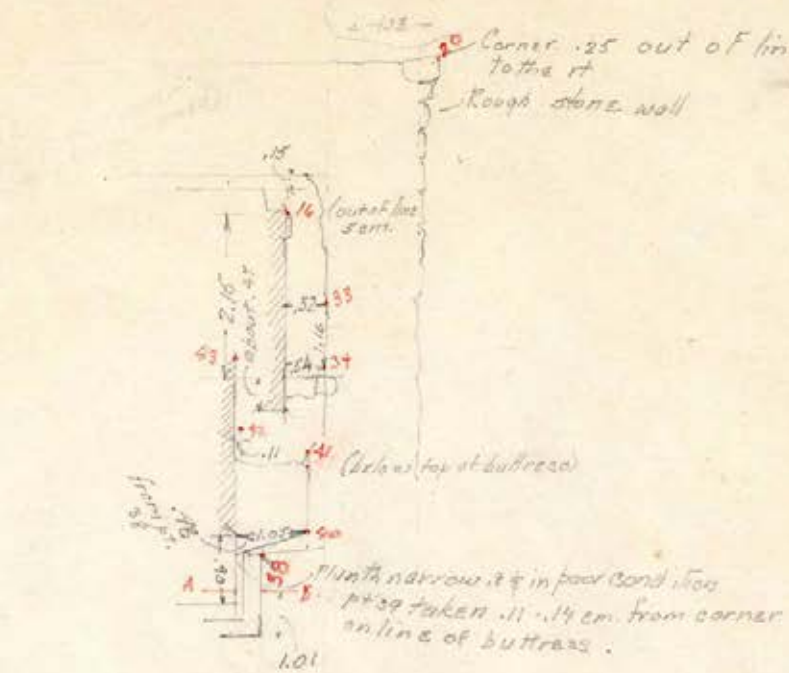
REMARKS Level & measurement left side.

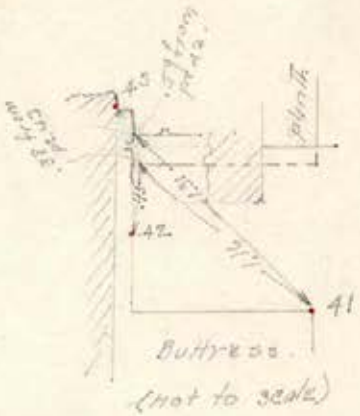


J-29 1/[illegible]/36.

Rt. side measurements

scale 1:20





PIEDRAS NEGRAS _____ 193__ STR. _____

OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

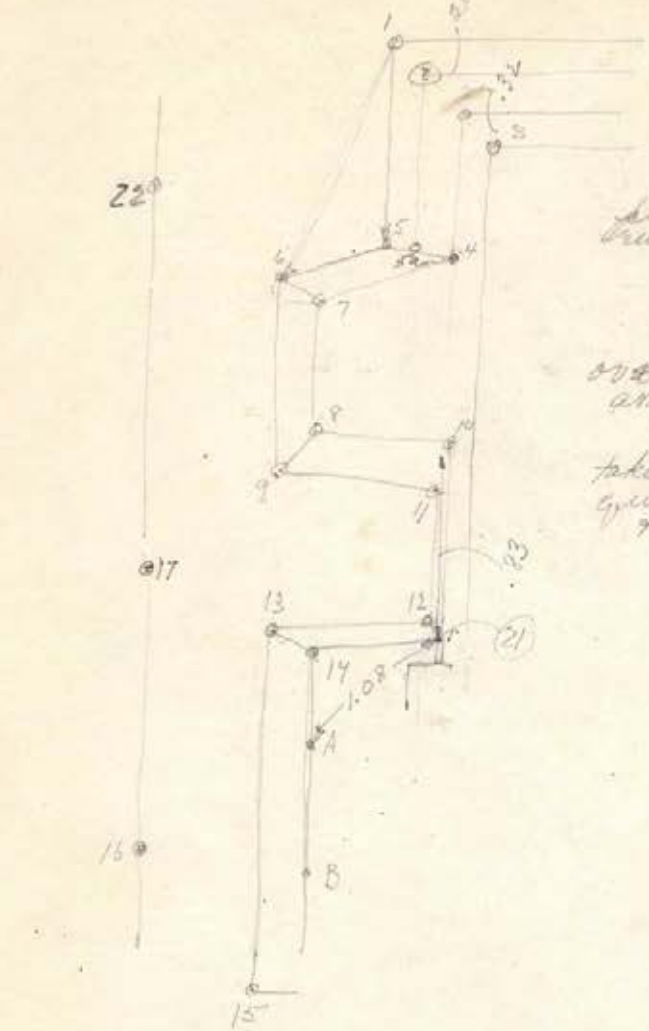
REMARKS _____

PIEDRAS NEGRAS 5/19/36 193 STR. I-29

OP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Measurements Right Side



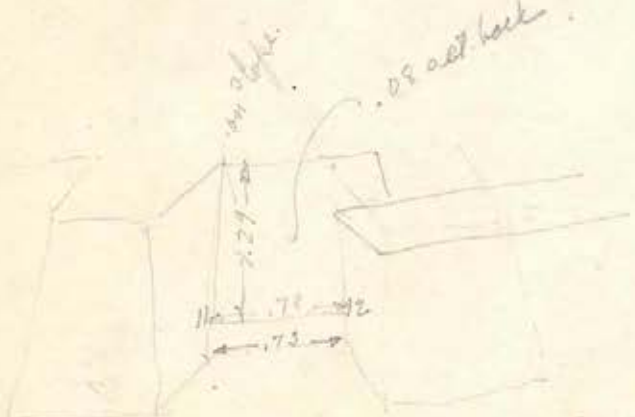
1	2.04 (6)	7.57 (c)	
2	1.32 (5a)		
3			
4	.95 (7)		
5	1.41 (1)	6.96 (c)	
6	2.72 (A)	1.11 (5)	5.86½ (c)
7	1.47± (A)	6.20 (c)	
8	1.44 (A)	6.18 (c)	
9	1.39 (A)	5.87 (c	
10	1.75 (A)	7.02 (c)	
11	1.66 (A)	6.86 (c)	
12	.78 (11)	1.08 (A)	6.88 (c)
13	5.60 (c)	.70 (A)	
14	5.91 (c)	.40 A	
15			
16	6.91 (c)	17 (2.75	.76 (15
17	5.28 (c)	1.06 (A)	
18			
19			
20			
21		6.93 (c)	
22	5.25 (c)	1.09 (6)	

Stretch measurements

over hanging arm stretch way

taken not given as map.

E to D =



J-29.

4/7/36

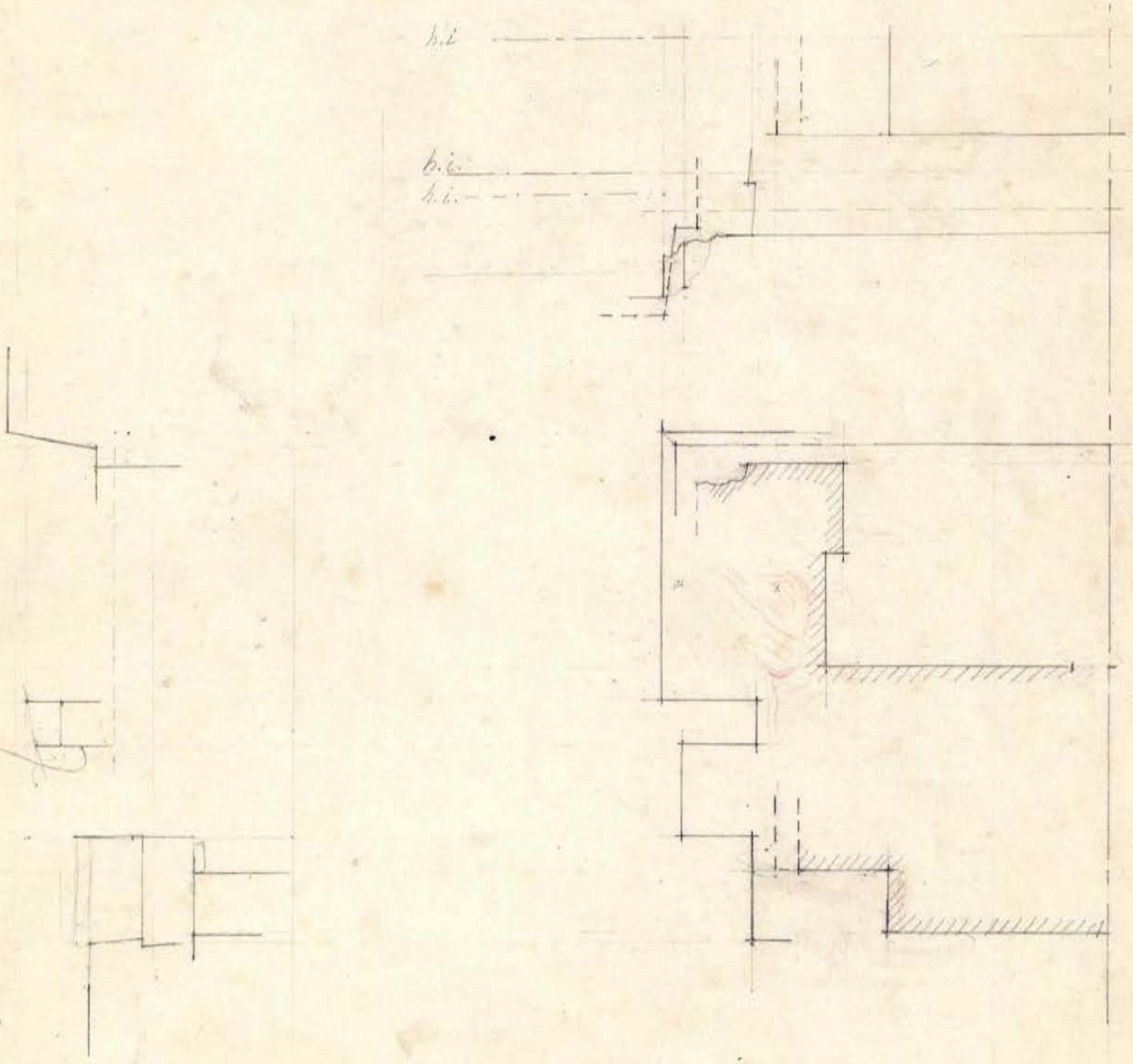
Rectified sketch to scale Left side J-29.

PIEDRAS NEGRAS _____ 193 ____ STR. _____

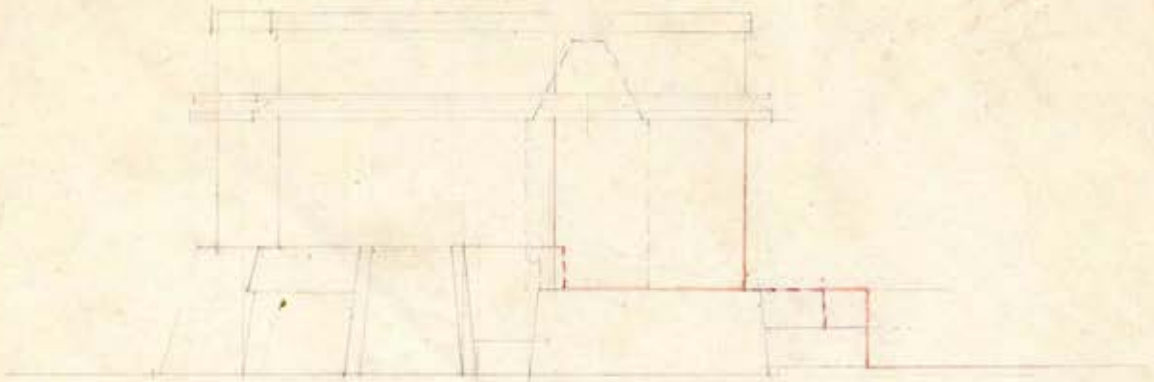
OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS _____



This wall falling forward & outward.



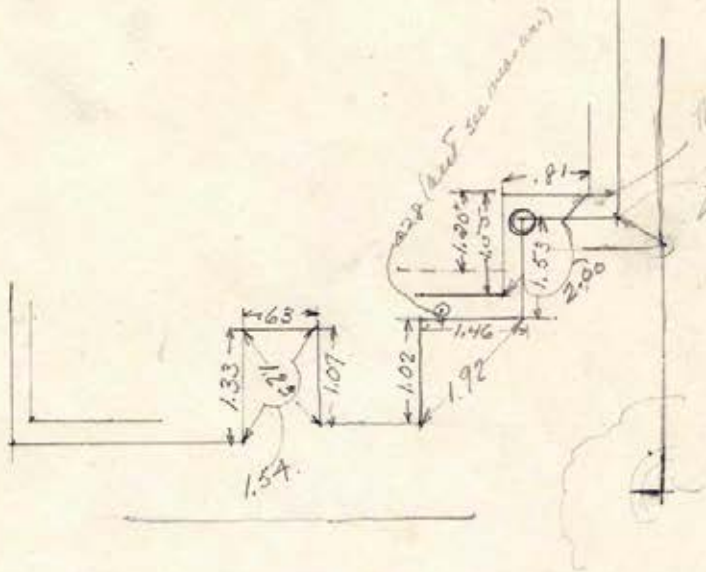
PIEDRAS NEGRAS _____ 193___ STR._____

OP. No. _____ MUSEUM CAT._____

SCALE _____ SEE PHOTO Nos._____

REMARKS _____

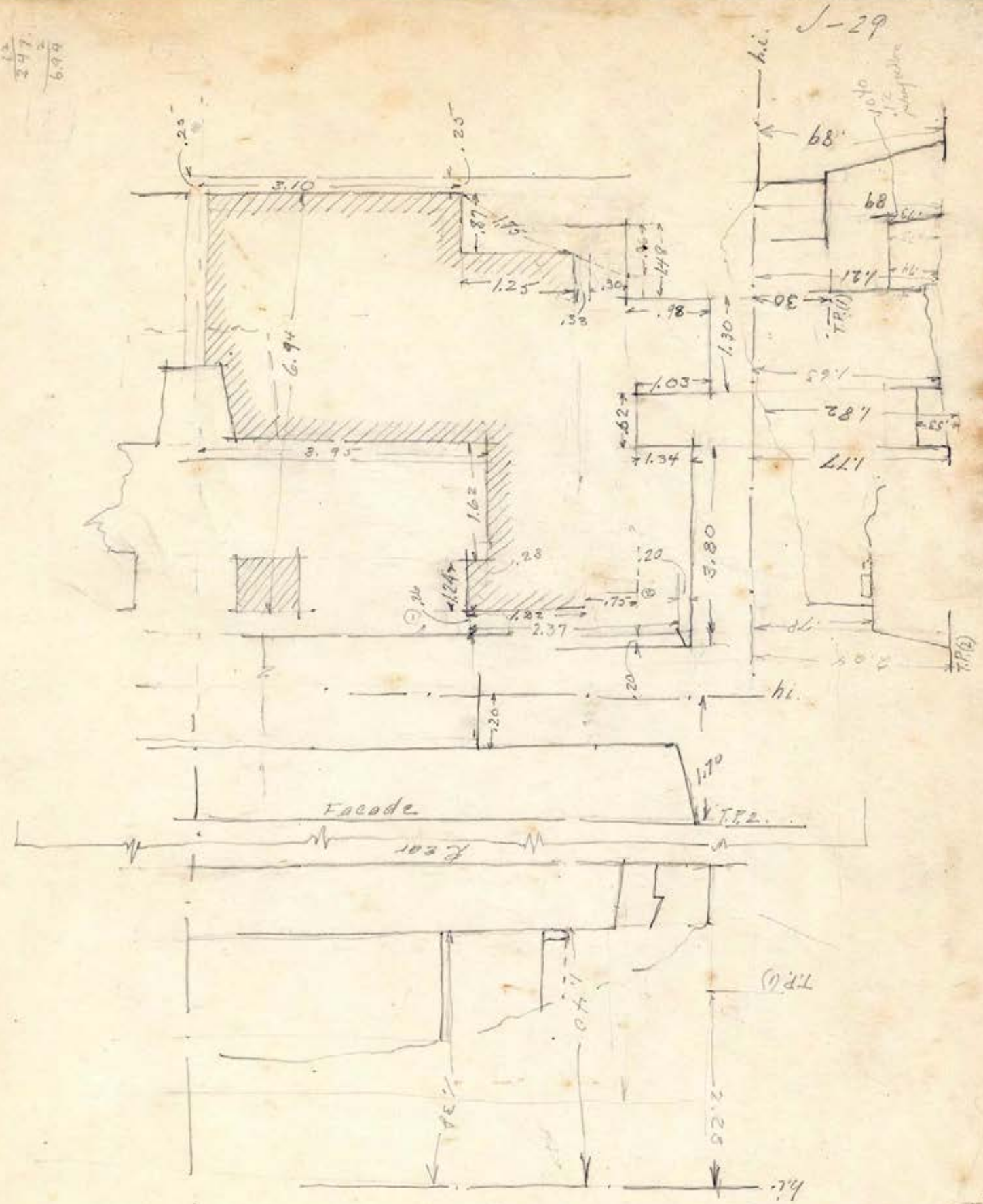
J-29
7/10/36
Sketch - measurements left side.



This corner falling out about 5 cm

falling out

J-29



PIEDRAS NEGRAS _____ 193 ___ STR. _____

OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS _____

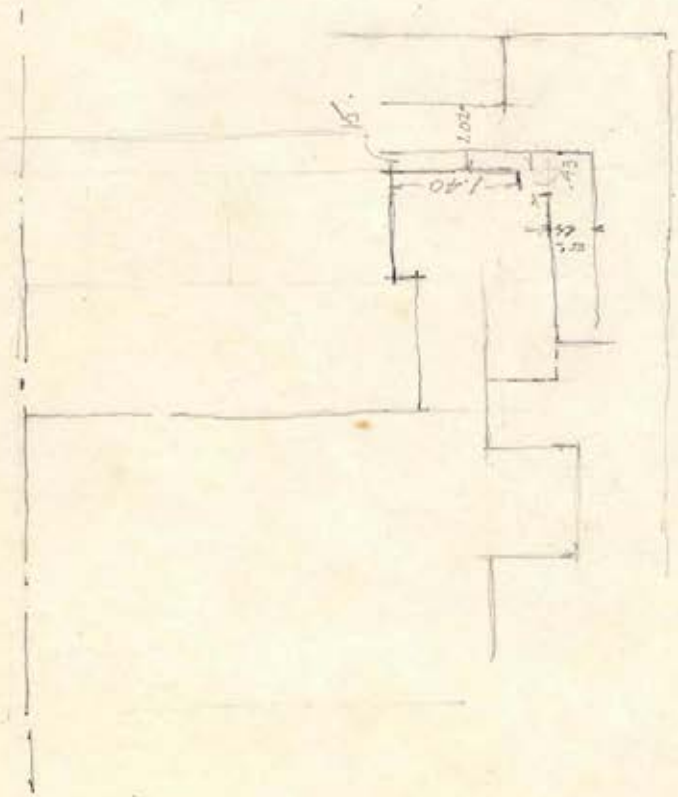
PIEDRAS NEGRAS _____ 193___ STR._____

OP. No._____ MUSEUM CAT._____

SCALE_____ SEE PHOTO Nos._____

REMARKS _____

V-29
4/10/36
Sketch plan
right side



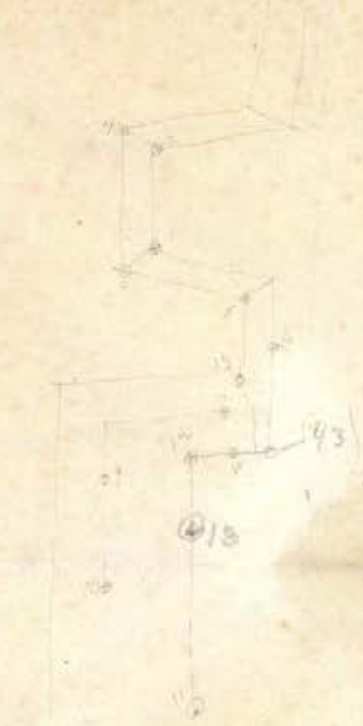
PIEDRAS NEGRAS _____ 193 ____ STR. _____

OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS _____

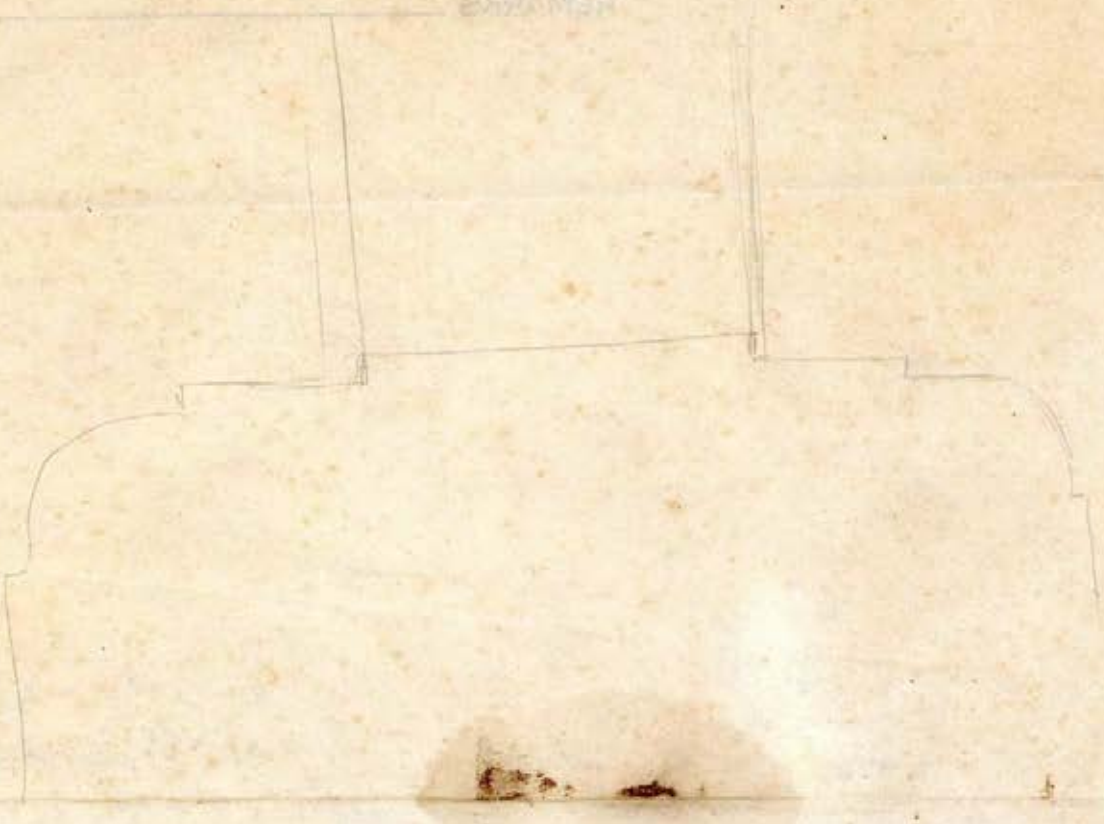
Chunk of [illegible] 29

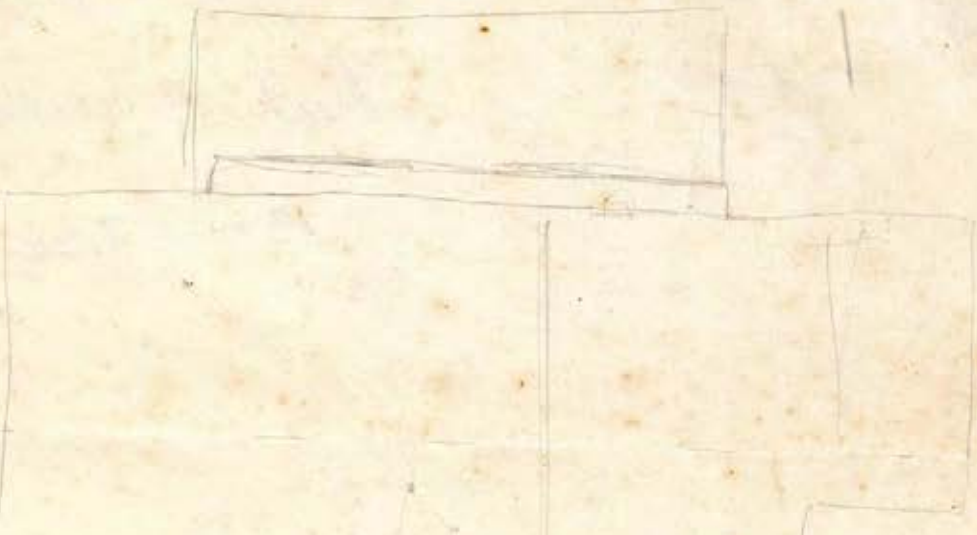


10 - B - 6.70 - 2.49 (a)
9 - B - 7.86 - 2.49 (a)
4
1/8 - 8.09 (B) corner of old wall
1.83 (a)
2 - 10.28 (B)
3 - 1.55 (43)

10 - Chunk, 50 behind 43.

13 - 7.26 (B) 1.89 (a)





① Location of K-5 from J-4 stela terrace.

Pts. A, B & C. are lettered A, D & E respectively on plan of nt. side of J-4 stairway, page J-4 (8)
This page locates line E-F from which are measured pt. G (p. K-5 (2)) & Pt. H. (p. K-5 (3))
pt F = pt. A on p. K-5 (4)

② Plan - lower terraces at left of stairway.
Pt. G is not shown on sketch but is located.
Pt. G = pt B on p. K-5 (4)

③ Plan of upper terraces at right of stairway.
Location of pt. H is from line ~~E-F~~ E-F of K-5 (1)

④ Lower terraces at right of stairway
A & B = F & G of (2)
Upper - right section thru terrace shown on p. (3) showing contactico wall behind upper terrace.
Lower - right = section thru terraces shown on plan

⑤ - Pyramid section.

Upper left - sketch of side of stairway adjoining at upper terrace (indicated by pts. 3-2-1 on plan K-5 (3).
Center - section thru mask - terraces at left (see also K-5 (4))
Lower right - section thru upper terraces at pt. pts 26 & 27 same as on detail at upper left.

⑥ - Section showing earlier terrace behind mask terraces at left (note that only upper mask is shown) At left is plan of earlier terrace & measurements of width.

K-5 (continued)

(7) - Left - Section thru mouth of upper mask and plan of mouth, below. Left side of pyramid.
Right - sketches showing relations of mask ~~face~~ terrace, stairway & secondary block (below is elevation) Note that block is secondary also that ~~stairway mask-panel is L~~ mask-terrace is built against stairway wall.

(8) - Bldg. platform of K-5 1st (right side)

Upper left - view from rear. Bench mark is on building wall.
Center - view from right side.

Below - view from side of what seems to be front corner of original wall - note that this is the same as sketch on extreme rt.
Right - view from front.

(9) - Levels on K-5 1st, 2nd & 3rd.

K-5 Levels.

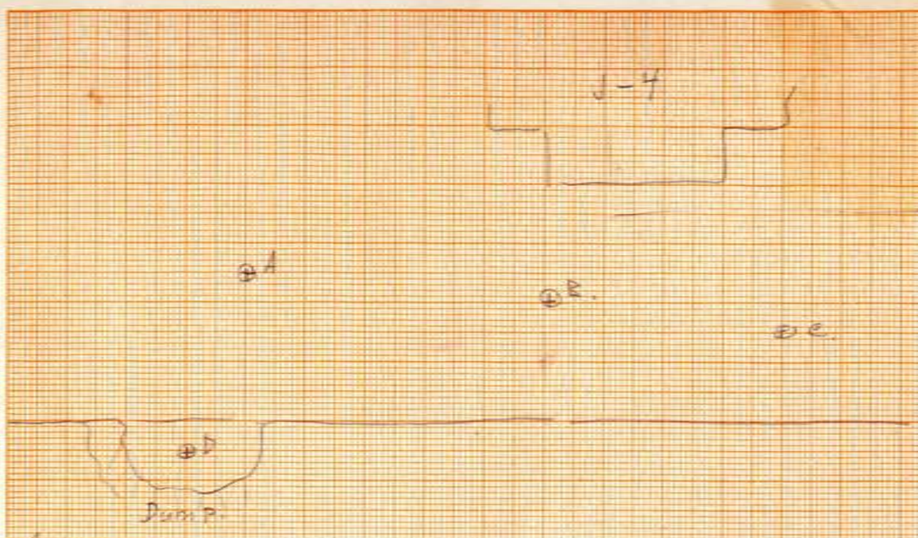
0 = on lower lip of mark at left of stairway. (just in front of central "tooth")

1) - Bottom of secondary basal terrace on block (plaza level) = −3.07
2) - Top of 1st terrace (below mark) = −.70
3) Bottom mark - terrace = −.48
4) " 2nd " " = +1.60
5) " 3rd mark (?) " = +3.76.
(N.B. - note that this is almost .30 higher than that measured on p. K-5 ⑥. The latter is measured after portion near stairway was excavated and is probably falling.)
6) Earlier terrace behind marks (left.)
bottom - +4.15
top - +6.28
7) Bottom of high terrace at right = +6.21.
8) Bottom of terrace above 7) = +8.54 this point is not well defined. - terrace seems to be falling at this pt.
9) Bottom K 5 1st plinth = +10.18
Top K 5 1st plinth (pick-mark) = +11.19
" " " (near pier) = +11.27
10) Pt. marked with pick top of K-5 3rd terrace wall (may not be true top of wall) = +8.88
11) Chicken back of K-5 1st. = +11.43
12) Bench mark on rear wall K-5 1st, .48 above base (marked with pick) = +11.84
bottom of wall = +11.36

K-5 Levels (continued)

Sill K-5 3rd = +6.38

Bottom of front jaw K-5 3rd. = +5.69



Add .05'

D = 11.48 (A) 19.62 (C)

Ang at D = 180° - Bearings sight 5 = 79°10'

Ang D on C

E = 49°33'

Ang C on D

E = 283°58'

Add .05' to each measurement & allow for adj.

Ang E, on D, F = 146°17'30"

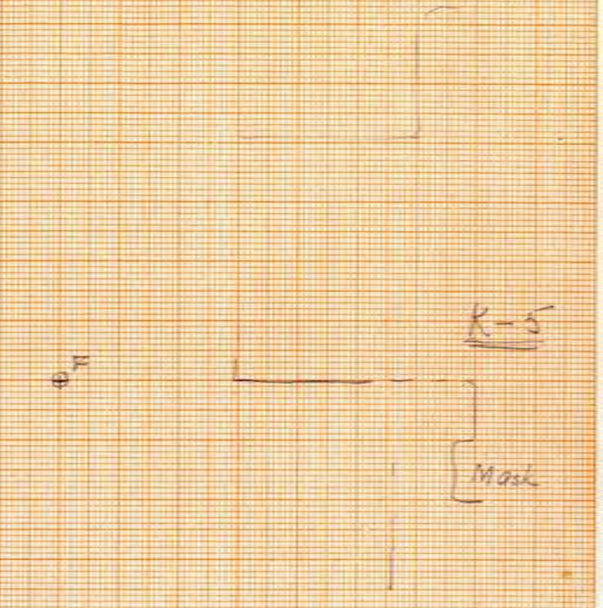
Dist EF. 17.54 + 14.23 + 9.76 + 9.37 + 16.59 + 20.81

June 19, 1936

Str K-5

Location from

J-4 Stake Fence



K-5
①

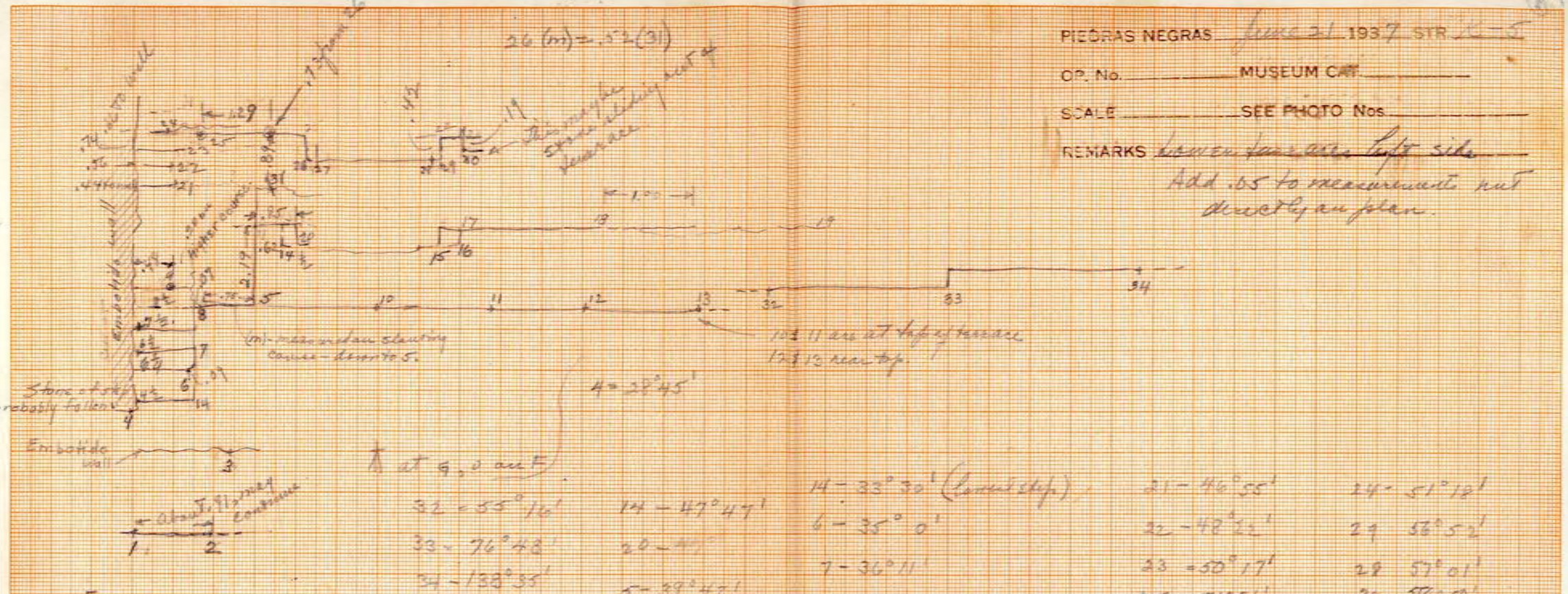
PIEDRAS NEGRAS June 21 1937 STR II-5

OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos _____

REMARKS ~~Uaxactun Datum Line~~ Left side

Add .65 to measurement not directly on plan.



F
6
Dist F to 6 = 9.47 + 1.07½

At 6, 0 and F

32 - 55° 16'
33 - 74° 48'
34 - 138° 55'
14 - 69° 13'
15 - 58° 55'
16 - 51° 31'
16 - 51° 35'
17 - 54° 11'

14 - 47° 47'
20 - 4[illegible]
5 - 39° 42'
10 - 41° 02'
11 - 43° 06'
12 - 45° 23'
13 - 50° 08'

4 = 28° 45'

14 - 33° 30' (lowest step)
6 - 35° 0'
7 - 36° 11'
8 - 39° 10'
9 - (.05 overhang from last measure - 05 back) 39° 35'
31 - 50° 36'

21 - 46° 55'
22 - 48° 22'
23 - 50° 17'
25 51° 51'

24 - 51° 12'
29 52° 52'
28 57° 01'
30 - 58° 50'

At F and E (ref.)

G - 236° 30'
1 - 177° 12' (526-E)
2 - 177° 17'
3 - 178° 35' (726½-E)
4 - 175° 29'
5 - 180° 55'

6 - 177° 36'
7 - 179° 55'
8 - 177° 36'
14½ 177° 39' (½ of 526-E)
9 - 175° 12'
10 - 188° 54'

11 - 196° 18'
12 - 204° 31'
13 - 213° 16'
17 - 212° 33' (following stones)
18 - 200° 58'
17 - 191° 15'
16 - 187°

14½ 171° 3-7'
20 - 183° 10'
15 - 193° 0'
21 - 173° 41'
22 - 173° 42'
23 - 174° 27'
24 - 173° 52'

25 - 176° 41'
26 - 181° 42'
27 - 182° 19'
29 191° 33'
30 - 193° 39'

31 - 180° 16'

7½ = .71 (7) .7+ (8)
8½ = .70 (7) .44 (8)
9 = 1.02 (7)
14½ - .26 (20) (m)

Increase
4½ = .56 (6½) .62 (14)
6½ = .41 (7)

Take:
14 - 1.62 (9)
7 - 1.02 (9)
6½ - 1.14 (7) .50 (6½) (m)
6½ - .97 (7) .61 (9) (m)
7½ - .71 (9) (m)

Distance to fill wall.

K-5 (2)

FIELDING NOTES _____

CAT. NO. _____ MUSEUM CAT. _____

SCALE: _____ SEE PHOTO Nos _____

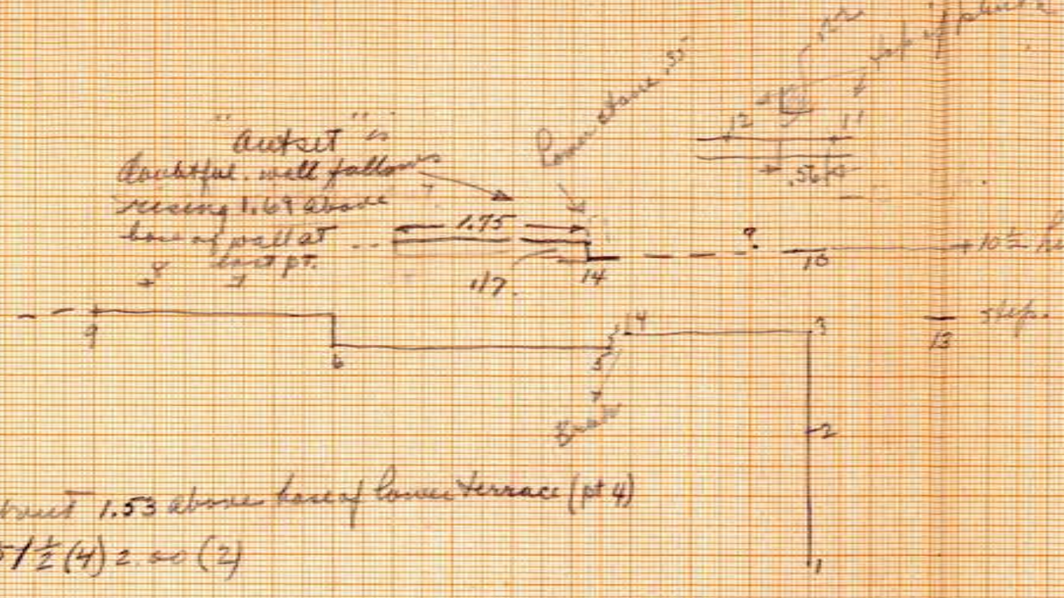
REMARKS: _____

PIEDRAS NEGRAS June 21 1937 STR K-5

CP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos _____

REMARKS Upper terrace. Rt.



Dist F H - 10.46 + 10.92½

+H

K at F on E, H = 106°56' ~~10°52'~~

K at H on F undet.

1 = 143° 11'	10 = 176° 08	1 = 293° 0'	10 — (not seen).
2 - 143° 47'	13 = 151° 16'	4 - 281° 22'	13 — 297° 05'
3 —	11 - 158° 35'	5 - 272° 0'	11 — (too much to measure from 13)
4 — 140° 42'	12 - 155° 25'	6 - 272° 20'	12 — 287° 40'
5 - 140° 14'		9 - 264° 04'	10½ - 292° 57'
6 - 135° 12'		8 - 266° 23'	
7 —		2 - much (not seen from 1)	
8 — 133° 20'			
9 - 132° 32'			

List. add. obs.

2 = .72 (1) 1.90 (4)

3 - .91 (2) 1.79 (4) [struct 4.36 to 6 (outset).

10 - 1.40 (2).

10½ - 3.14 (3) (not very good measurement.

- 1.43 (13)

11 - 5.44 (13) (may not be horizontal)

+.00 (10½)

12 = 5.15 (13) (may not be horizontal)

3.64 (10½)

1.56 (11)

KEUFFEL & ESSER CO., N. Y. NO. 358-141 Millimeters. MADE IN U.S.A.

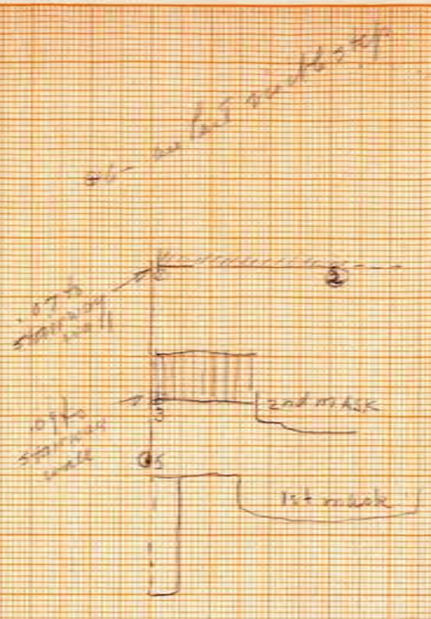
K-3
(3)

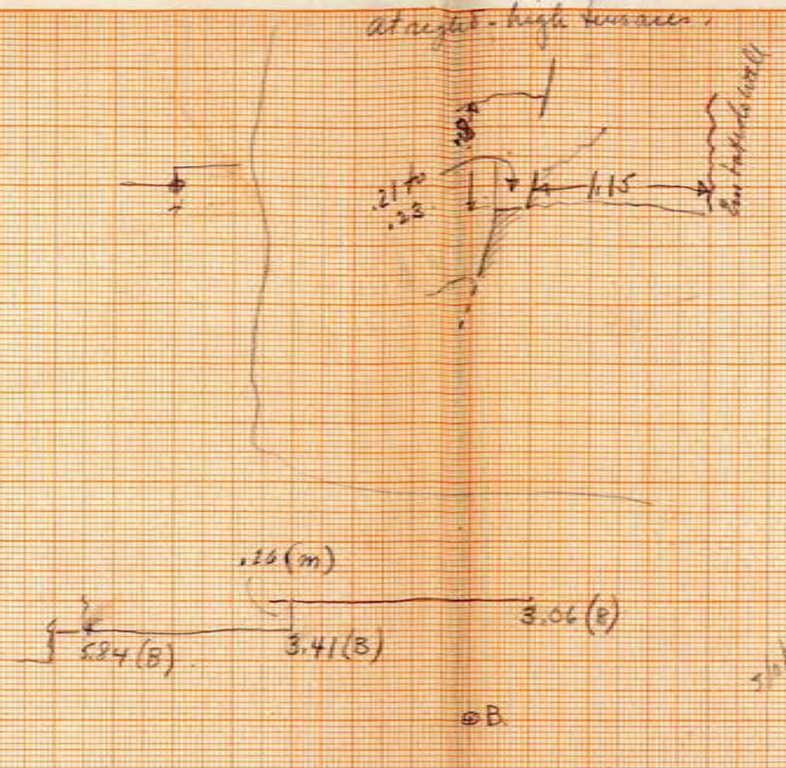
P. EDRAS NEGRAS June 27 1937 STR. K-5

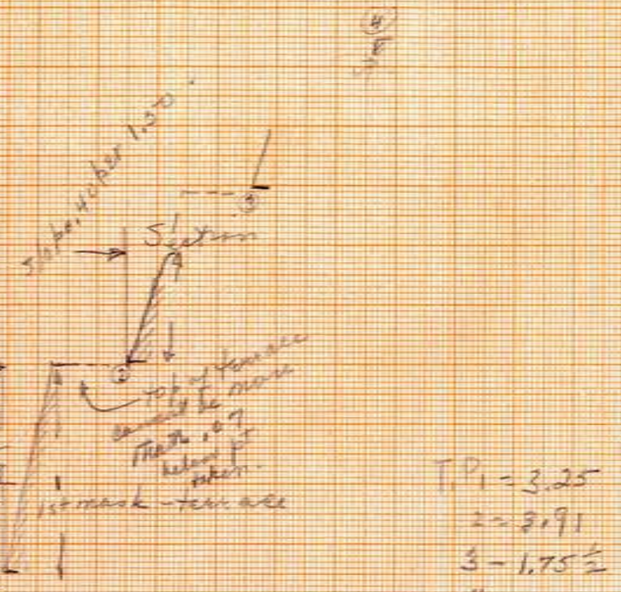
CP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS Plan & section pts.
Add .05







⊕A

K at A - on B read at
1 = 300° 05'
2 - 304° 47'
3 - 300° 44'
4 - 317° 05'
5 - 300° 48'
6 - 297° 25'

K at B on A read at
1 - 52° 08'
2 - 38° 20'
3 - 52° 08'
4 - 82° 01'
5 - 49° 37'
6 - 57° 06'

Bearing B-A = 89° 47' N.W.

⊕B

0 = bottom lip of brass mark = 2.58
1 = 3.06
.32 = ft. above mouth of second Mark = T.P. 1
3 -
4 -

T.P. 1 = 3.25
2 = 3.91
3 - 1.75 ±
4 -

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

K-5
(4)

PICTURAS MEDRAS _____ 193 STN

OC No _____ MUSEUM CAT _____

SCALE _____ SET PHOTO Nos _____

REMARKS _____

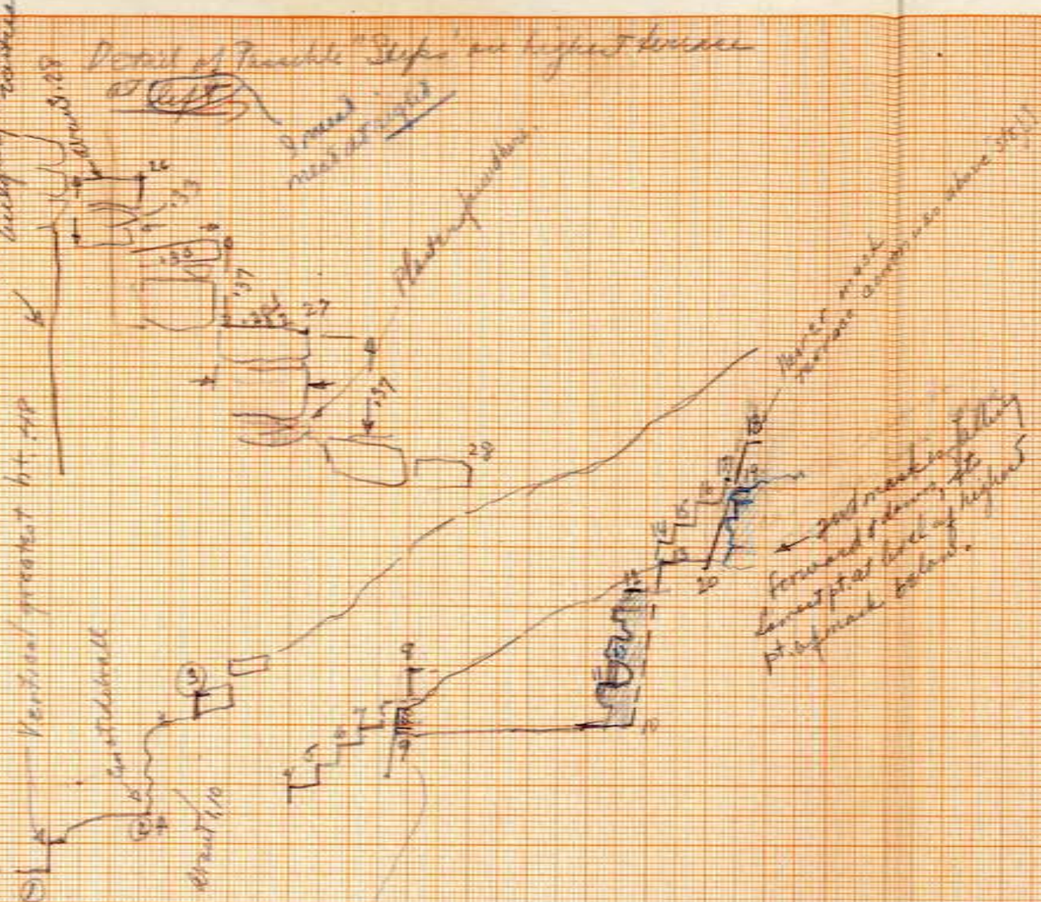
P. EDRAS NEGRAS June 21 1937 STR. K-5

CP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS Section

Detail of Possible "Steps" on highest terrace


Terrace wall runs back any & about 200 beyond
Vertical fracture 4ft. up
Broken
Broken
Broken

K-5
(5)

FIGURAS NEGRAS _____ 19__ STR.

OC. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS _____

PIEDRAS NEGRAS June 26 193 STR. Str. K-5

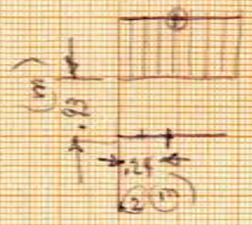
CT. No. MUSEUM CAT.

SCALE 1:1 SEE PHOTO Nos.

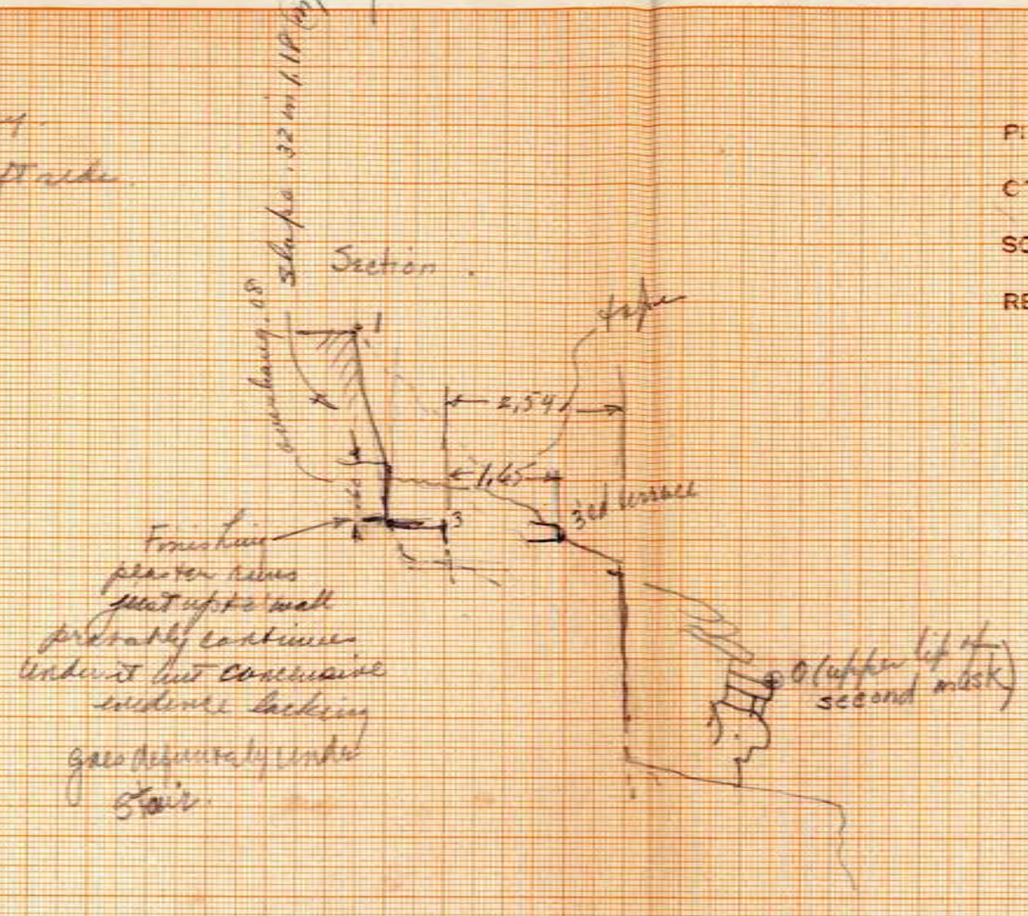
REMARKS Location of a terrace (probably one of K-5 and forms - left side & leveled stairway - like wall

A = stair up side stairway.

B = Stairway over north left side.



Section.



1 = .94.

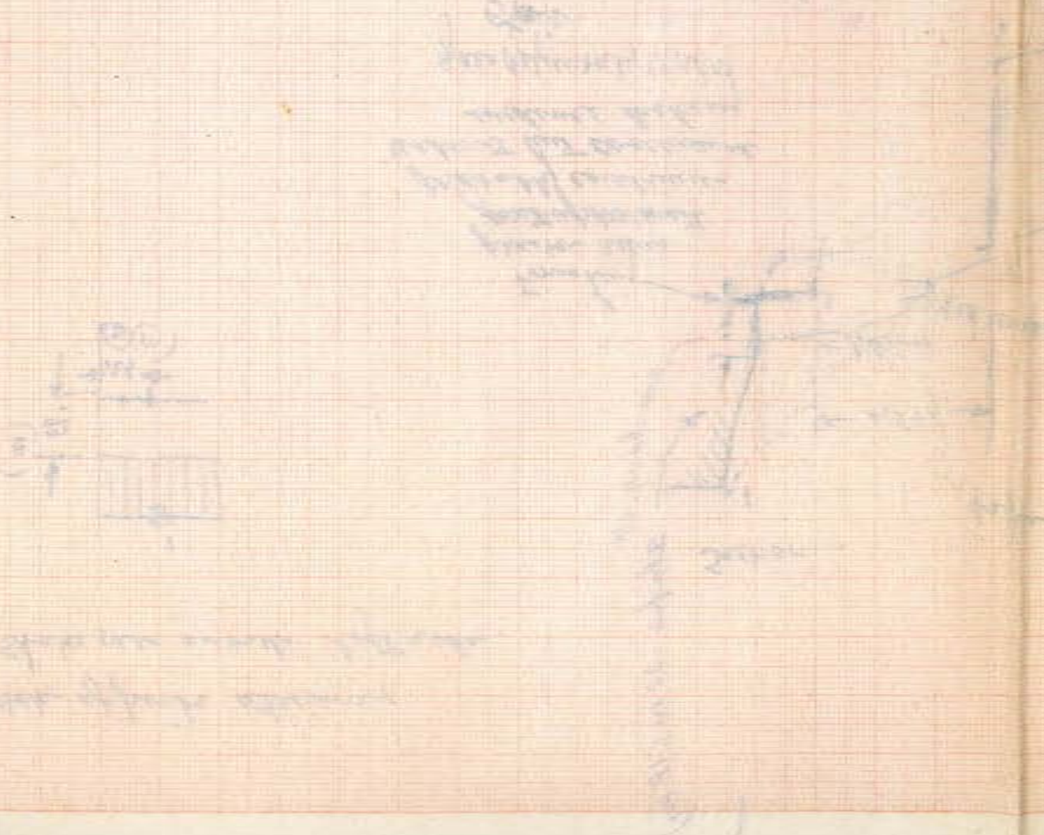
3 = 3.07½.

3.57½ = bottom 3rd mask terrace.

3 = 1.66½

0 = 3.45

KEUFFEL & ESSER CO., N. Y. NO. 388-14L
Millimeters,
MADE IN U.S.A.



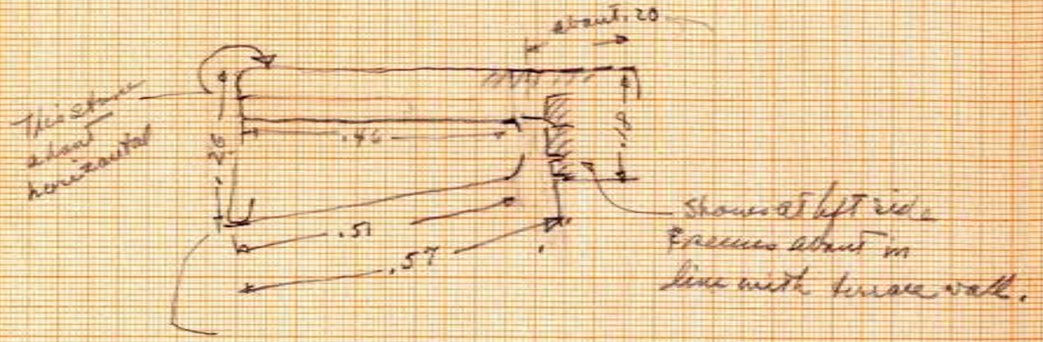
PIEDRAS NEGRAS _____ 193__ STR _____

OP. No. _____ MUSEUM CAT. _____

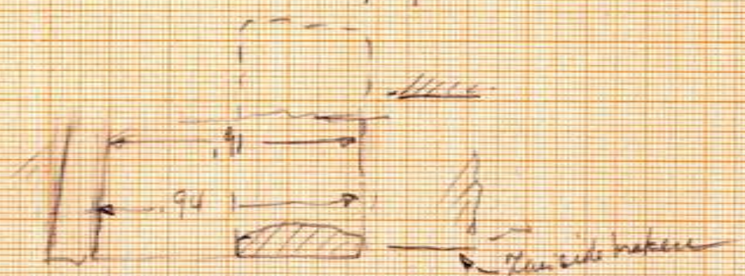
SCALE _____ SEE PHOTO Nos. _____

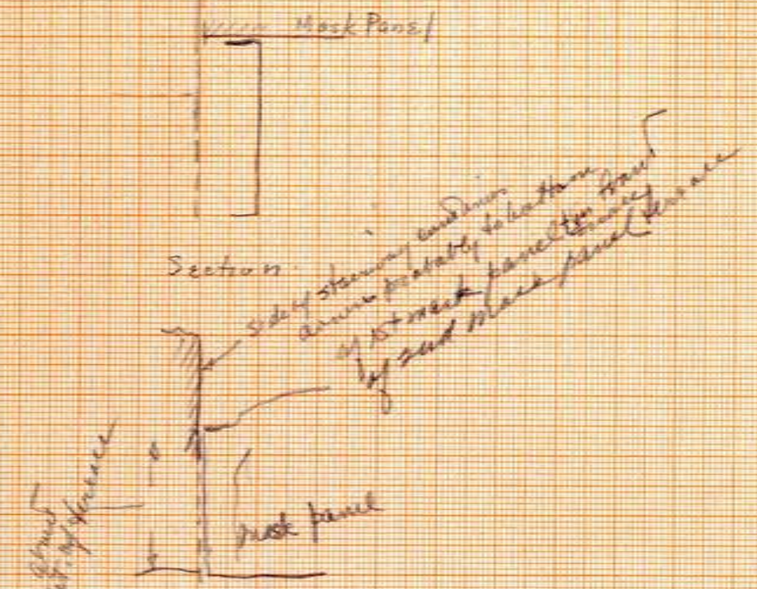
REMARKS _____

Section south



Side projection = .43.





KEUFFEL & ESSER CO., N. Y. NO. 359-1AL
Millimeters,
MADE IN U.S.A.

K-5
(1)

PROGRAS-NEGRAS _____ 19__ STR _____

OF No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos _____

REMARKS _____

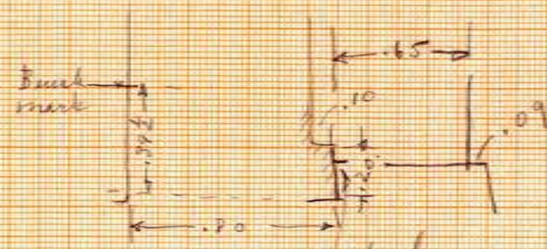
PIEDRAS NEGRAS June 30 1937 STR. K-5

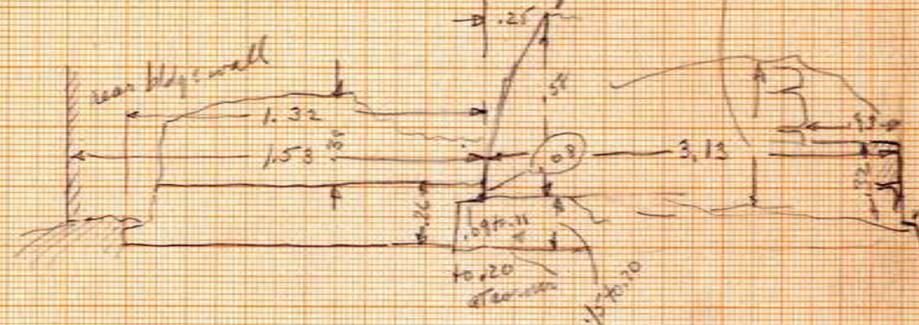
OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS Rt side Wdg. & plaster

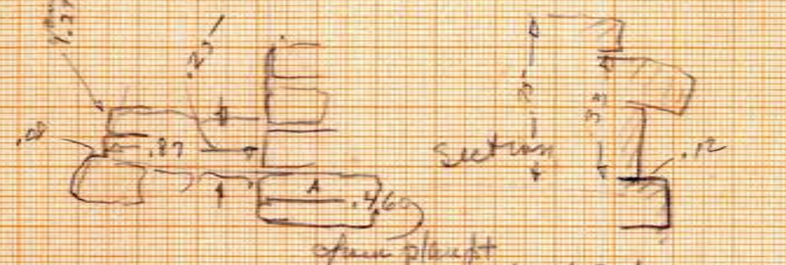
Rear





Plaster applied to rear wall of Wdg. & to side wall of Str. 10 for about 1 meter from front corner. Plaster applied to rear wall of Str. 10 for about 1.5 meters from front corner and to side wall for about 1 meter from front corner.

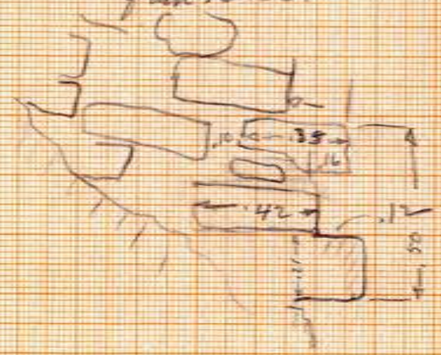
Front



Plaster applied to jambs & sill of doorway.

This is later plaster but continuous with plaster of Wdg.

View of front corner of original wall from side.



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

K-5
(8)

PIEDRAS NEGRAS June 22 193 7 STR K-5

OP. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos. _____

REMARKS Rear st Corner of Bldg
Levels.

Pt. marked with pick on rear wall K-5 2nd - outer of the 2 Layers of chicos which may
rear wall of K-5 2nd = 3,58. be floor of K-5 2nd.

Back of K-5 1st outlayer of chicos following
out from under rear wall to embankdo
wall below = 1.03 ±.

1,39
.44
.95

4.08
3.58
.50

Highest pt. broken at jam of K-5 3rd = 4.08

Bench mark at st. rear corner of Bldg - .62 this is .48 above base of wall at this pt. but in falling ~~to~~

2nd set up.

1st. pt. rear wall K-5 3rd = 84½
Left jamb down " " = 2.18.
bottom of same = = 4.98.
Top of bench on wall K-5 3rd = 3.39½

Broken at jamb K-5 3rd - (1.39.
probably near bench K-5 2nd = (

K5
(9)

PICTORAS NEGRAS _____ 103 T STR _____

OP. NO. _____ MUSEUM CAT _____

SCALE _____ SEE PHOTO NOS _____

REMARKS _____

Traverse notes —

19.70 − 4.05 = 15.60

19.70 − 6.81 = 12.89

19.70 − 2.30 = 17.40

18.93

15.30 − 6.18 = 9.12

4.05

15.30 − 6.17 = 9.13

15.30 + 2.12 = 13.18

8.35 − 6.94 = 1.29

19.70 − 18.93 = .77

19.70 − 4.05 = 15.65

19.70 − 9.10 = 10.60

9.12 − 6.17 = 2.95

14.38 − 11.24 = 3.14

3.84 − 2.45 = 1.39

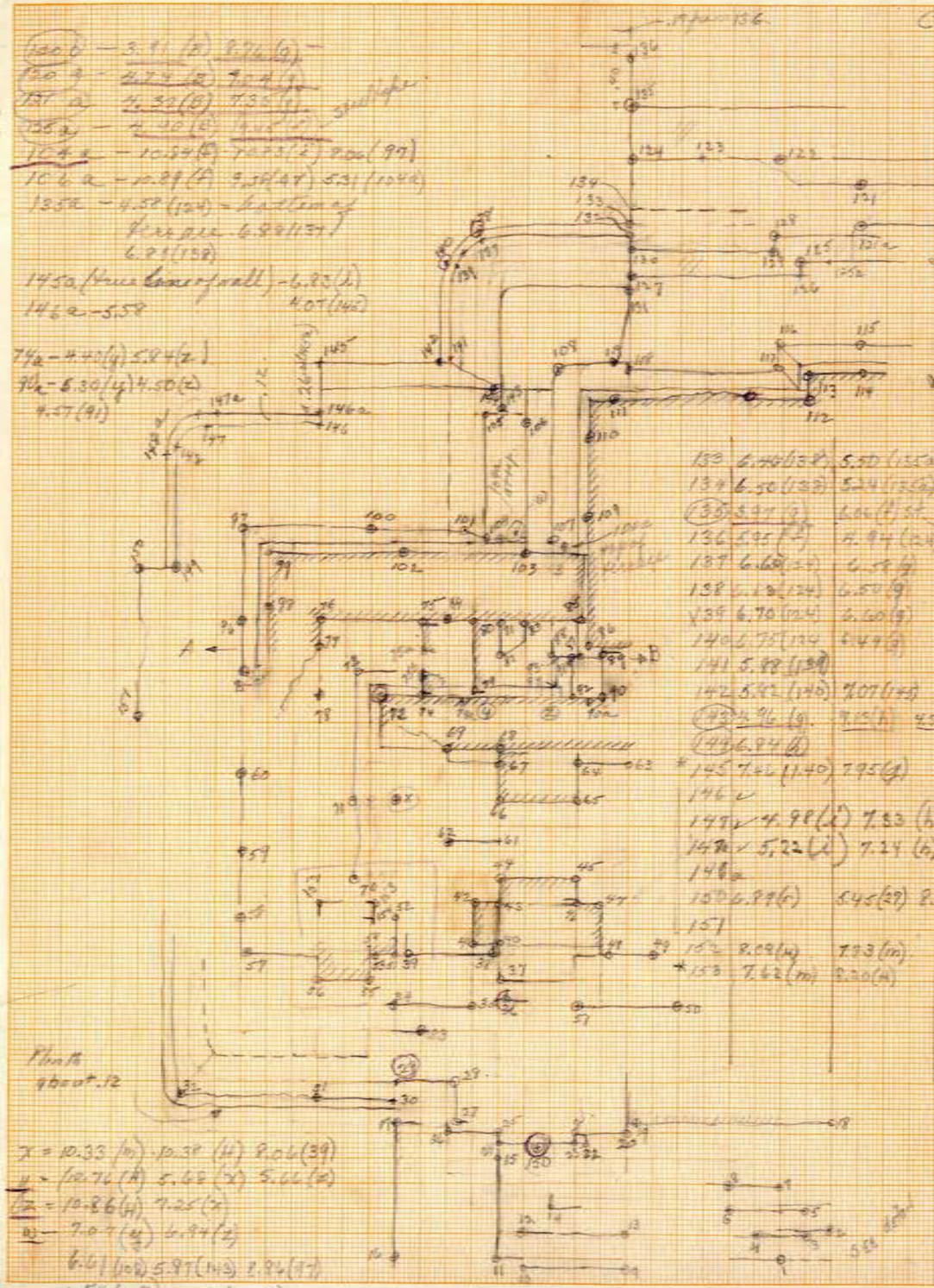
5.88 − 4.50 = 1.38

14.38 − 1.00 = 13.38

$\left\{\begin{array}{l} \text{A to a } B\text{-}\varepsilon\text{-}.79 \quad g - 4.05 - C - 19.10 \\ \text{C to e, } C\text{-}f\text{-}2.12,\ g - 6.17\ h - 8.35,\ b - 15.30 \\ \text{D to } f,\ D\text{-}f\text{-}14.38\ (.39)\ k - 11.24\ (2.5)\ j - 8.55,\ \ell - 5.88,\ l - .52 \\ f \text{ to } D\text{-}f\text{-}k - 3.14;\ f\text{-}j - 5.84,\ i - 8.30\ (.51) \end{array}\right.$

B to C — a b = 6.94, g − 9.12

Corrections: For all underlined measurements — add .08 to 10 m, .05 next 10 m
For other measurements — subtract 400 m.



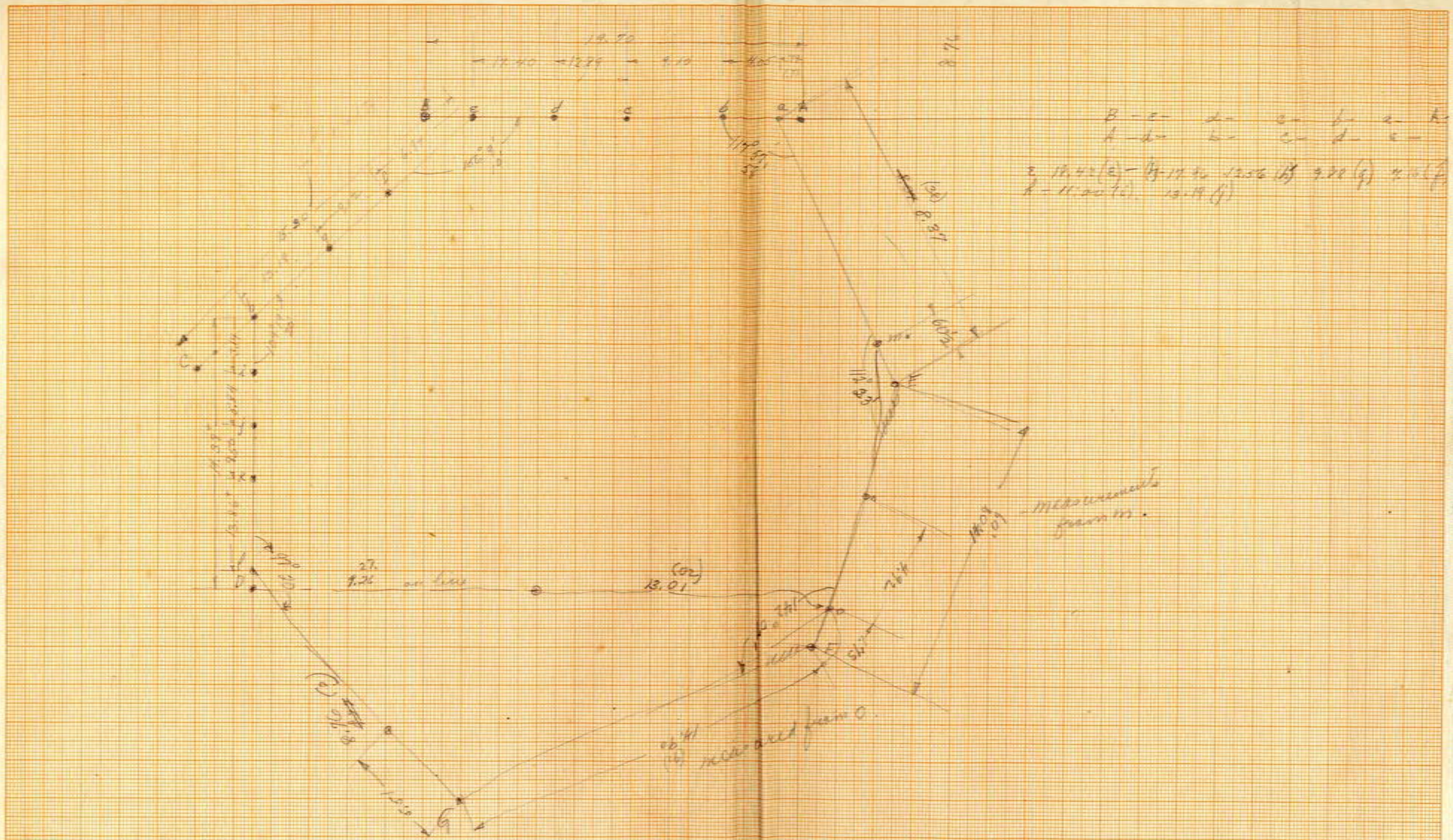
1	6.05 (5)	5.26 (F)						45	6.90 (69)	6.54 (63)	7.49 (5)			89	4.92 (72)	6.19 (4)	4.29 (91)						
2	6.20 (6)	6.15 (5)						46	6.54 (65)	4.95 (45)	4.70 (47)			90	4.93 (71)	6.90 (4)	4.23 (92)						
3	6.26 (5)	5.94 (J)						47	6.60 (65)	8.66 (X)	5.22 (65)			91	5.76 (72)	5.30 (4)							
4	6.41 (5)	5.69 (F)						48	4.90 (47)	6.07 (41)	4.93 (49)			92	4.93 (72)	5.63 (4)	5.42 (91)						
5	6.25 (5)	6.09 (J)	4.26 (1)					49	5.32 (47)	6.40 (41)	7.82 (66) 8.87 (X)			93									
6	6.87 (5)	5.84 (F)	5.04 (5)					50	4.82 (49)	5.29 (45)				94	4.46 (72)	5.40 (4)							
7	6.65 (6)	6.11 (J)						51	5.50 (50)	6.45 (44)	5.14 (47)			95	2.28 (99)	2.91 (4)							
8	7.46 (5)	6.01 (J)						52	4.95 (49)	4.59 (04)				96	4.24 (99)	3.24 (4)							
9	2.48 (5)	6.51 (F)	5.09 (6) 5.40 (32)					53	4.28 (52)	4.72 (39)				97	6.97 (9)	5.46 (4)							
10	2.51 (5)	1.48 (F)	5.14 (9)					54	4.20 (53)					98	.00 (99)	(replaces) 3.66 (4)							
11	6.19 (5)	6.17 (37)						55	8.51 (5)	6.80 (44)	5.03 (89)			99	6.22 (6)	6.02 (4)	4.32 (87)						
12	5.60 (5)	6.17 (37)						56	9.75 (5)	5.97 (m)				100	4.20 (9)	5.28 (95)							
13	6.46 (E)	7.02 (F)						57						101	6.37 (9)	3.91 (97)							
14	6.41 (27)	6.29 (F)						58	6.78 (L)					102	6.42 (9)	2.29 (89)							
15	99 (27)	2.65 (F)	5.93 (28)					59	7.32 (L)					103	6.70 (9)	4.61 (97)							
16	6.24 (14)	5.25 (37)	6.22 (F)					60	7.04 (K)	9.41 (K)				104	4.45 (9)	3.79 (87)							
17	5.61 (31)	5.07 (4C)						61	6.09 (X)	6.12 (65)				105	4.26 (9)	6.77 (6)	4.09 (91)						
18	7.75 (1.00)	7.96 (3)						62	5.75 (X)	6.61 (65)	4.60 (61)			106	6.21 (9)	4.21 (87)							
19	.07 (20							63	5.16 (2.	4.83 (64				107	4.99 (9)	5.18 (1044)							
20	5.36 (50)	5.72 (14)						64	9.78 (2.	6.76 (4)				108	4.17 (9)	4.44 (5)	2.08 (91)						
21	.15 (23)							65	5.47 (2.	6.85 (4)				109	7.03 (9)	5.75 (87)							
22								66	5.93 (2.	5.25 (4)	4.96 (69)			110	5.28 (9)	2.47 (5)	5.09 (97)						
23	4.87 (18)	5.32 (14)						67	5.68 (2.	4.54 (69)	7.57 (66) 6.11 (10)			111	4.87 (9)	2.25 (5)	7.51 (3)						
24	2.75 (5)	4.87 (24)	6.77 (5)					68						112	6.20 (9)	2.77 (78)							
25	6.96 (5)	7.02 (26)						69	7.95 (24)	6.05 (2)				113	6.27 (9)	6.53 (5)							
26	6.69 (5)	6.70 (5)	4.08 (14)					70	6.72 (X)	9.96 (2)	7.75 (44)			114	6.20 (9)	6.62 (5)							
27	2.88 (5)	2.91 (11)	5.09 (2) 5.35 (3)					71	6.33 (64)	5.05 (75)				115	6.21 (9)	6.52 (5)							
28	7.50 (5)	7.43 (9)	5.04 (30)					72	4.27 (79)	6.05 (95)				116	7.01 (9)	5.82 (5)							
29								73	5.50 (X)	7.21 (4)	6.94 (9)			117	6.21 (9)	6.79 (5)							
30	5.53 (31)	5.24 (16)						74	4.82 (4)	6.20 (4)	7.62 (44)			118	7.26 (9)	6.42 (5)							
31	6.05 (14)	8.13 (F)	7.24 (9)					75	5.22 (78)	5.04 (79)				119	4.59 (9)	6.42 (5)							
32	6.91 (6)	5.73 (16)	6.25 (F)					76	5.42 (72)	6.12 (75)				120	6.05 (9)	8.90 (5)							
33	5.55 (30)	7.15 (m)						77	6.28 (95)	4.74 (96)	6.26 (X)			121	5.56 (9)								
30	5.35 (34)	6.98 (m)						78						122	6.87 (9)	6.37 (5)							
35	6.14 (31)	5.42 (39)	7.92 (m)					79	4.23 (4)	5.32 (6)				123	5.22 (9)	5.14 (5)							
36	4.99 (38)	5.38 (39)						80	6.40 (4)	4.20 (24)	4.26 (2)			124	5.28 (9)	4.02 (5)							
37								81	4.55 (24)	4.40 (24)				125	5.13 (9)	4.20 (5)	6.20 (5)						
38	7.39 (m)	(cu. elbow (w)						82	5.16 (4)	5.44 (2)				126									
39	7.09 (m)	7.04 (27)						83	5.41 (2	5.98 (4)				127	2.00 (5)	6.50 (8)	4.27						
40								84	4.27 (82)	4.82 (40)				128	4.91 (8)	2.22 (9)							
41	2.49 (m)							85	5.05 (82)	6.24 (4)	5.27 (X)			129									
42	5.23 (39)	4.27 (42)	6.9 (44)					86	4.82 (2)	6.09 (4)				130	5.42 (8)	4.22 (9)							
43	4.75 (44)	4.37 (42)						87	4.80 (2)	6.92 (4)	2.60 (8)			131									
44	10.27 (L)	6.65 (F)						88	4.23 (99)	5.24 (79)				132	6.44 (104)	5.94 (65)							

Plan at
90 or 12

X = 10.33 (m) 10.38 (4) 8.04 (39)
Y = (m) 7.46 (4) 5.62 (X) 5.62 (X)
Z = 10.86 (4) 7.25 (X)
W = 7.07 (4) 6.94 (2)
6.64 (100) 5.97 (1043) 2.94 (11)
6.59 (100) 4.79 (1042)

0-13

plan

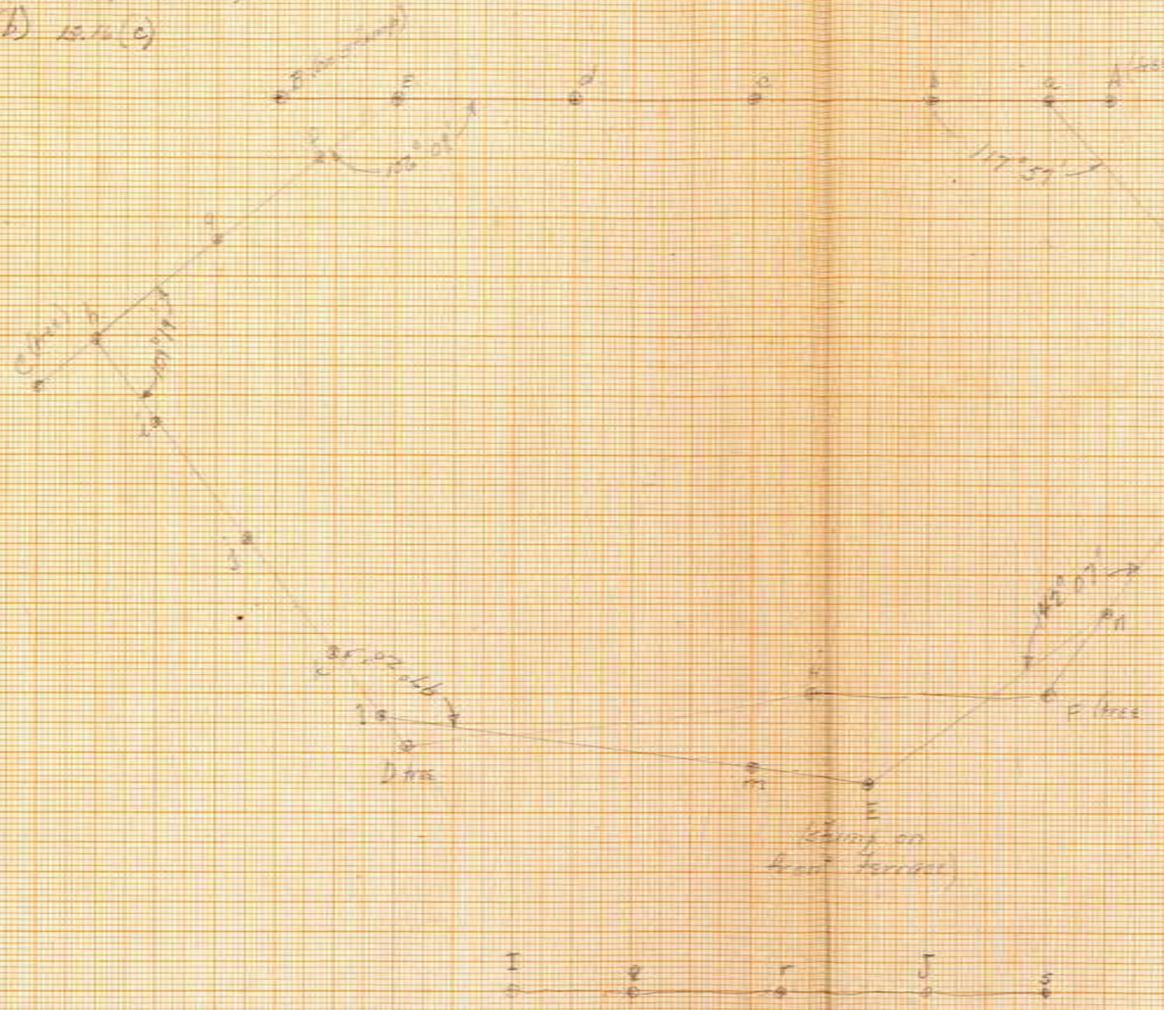

measured from m.
measured from C.

C-13
Traverse

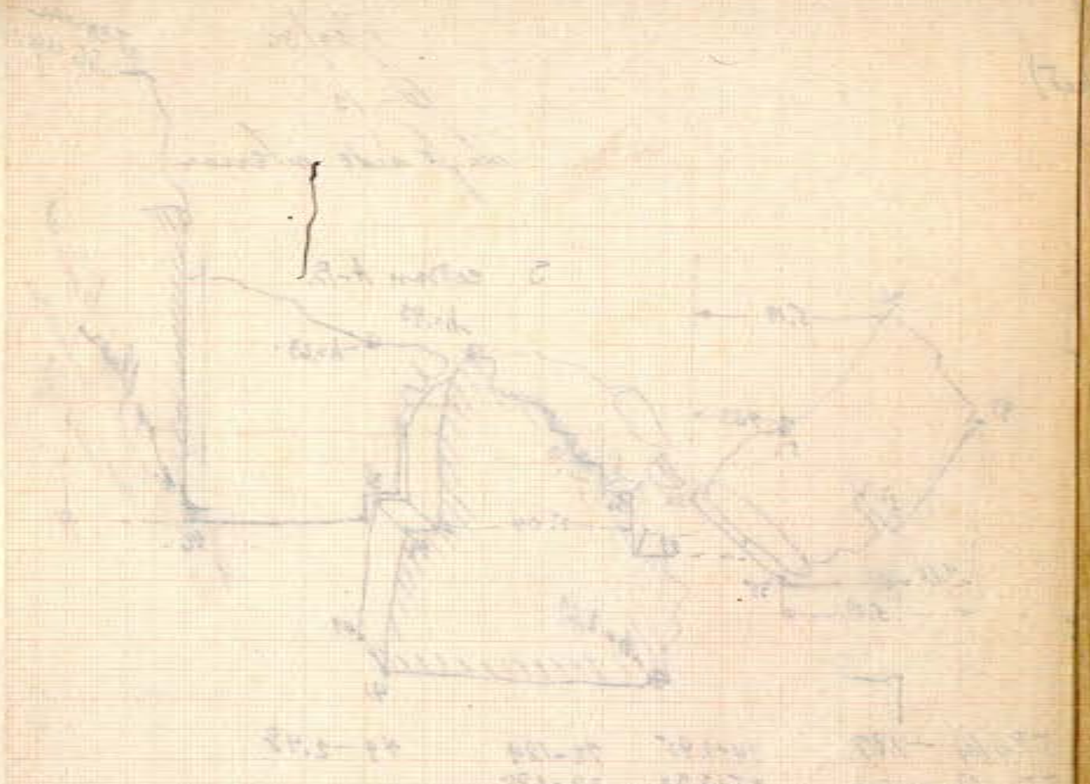
Recorded measurements with steel tape.

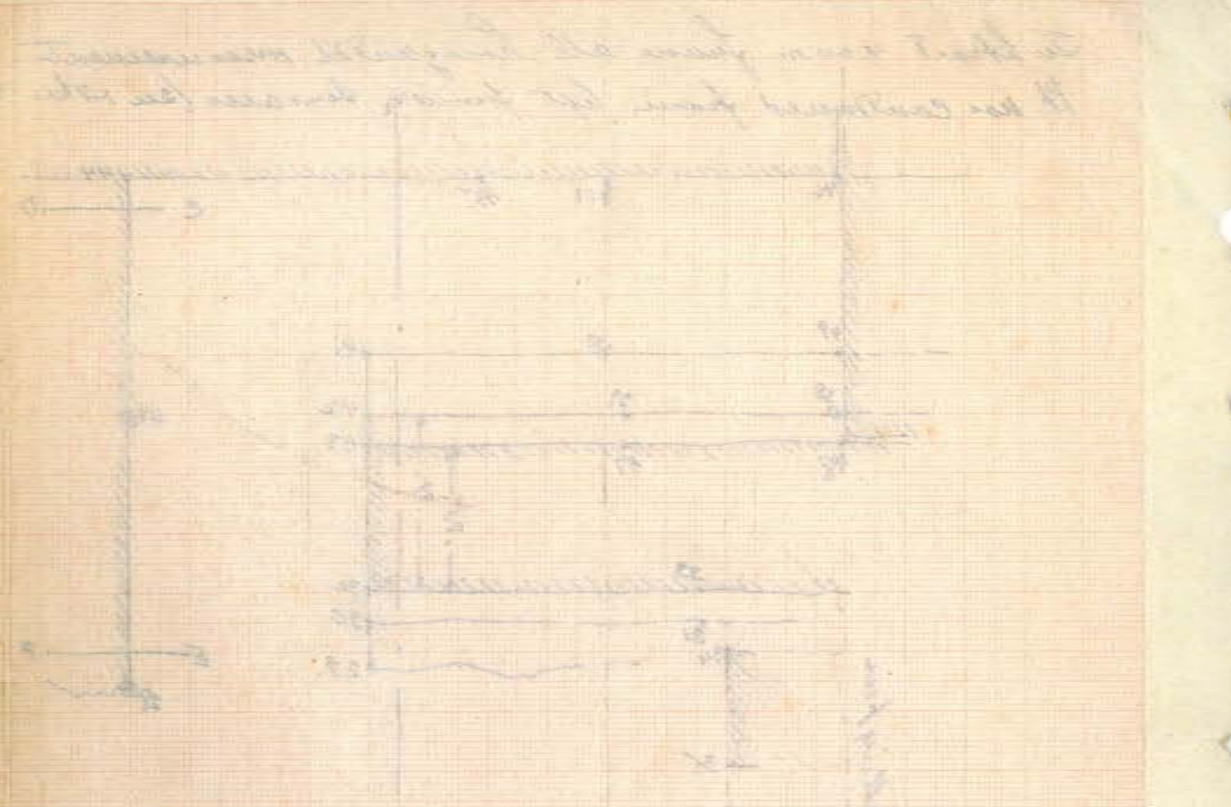
L — 10.49 (a) 10.48 (b) 12.56 (c) 9.09 (d) 7.16 (e)
E — 11.30 (f) 13.14 (g) 12.62 (h) (c)
B — 10.84 (A) 14.06 (B) 15.75 (C) 6.31 (D)
A — 10 (a) 8.08 (b) 12.14 (c)

Bearing of line a–I N 55° 28' W (a)
Bearing of line a–E N 20° 45' W
Bearing of line a–J N 77° 31' E

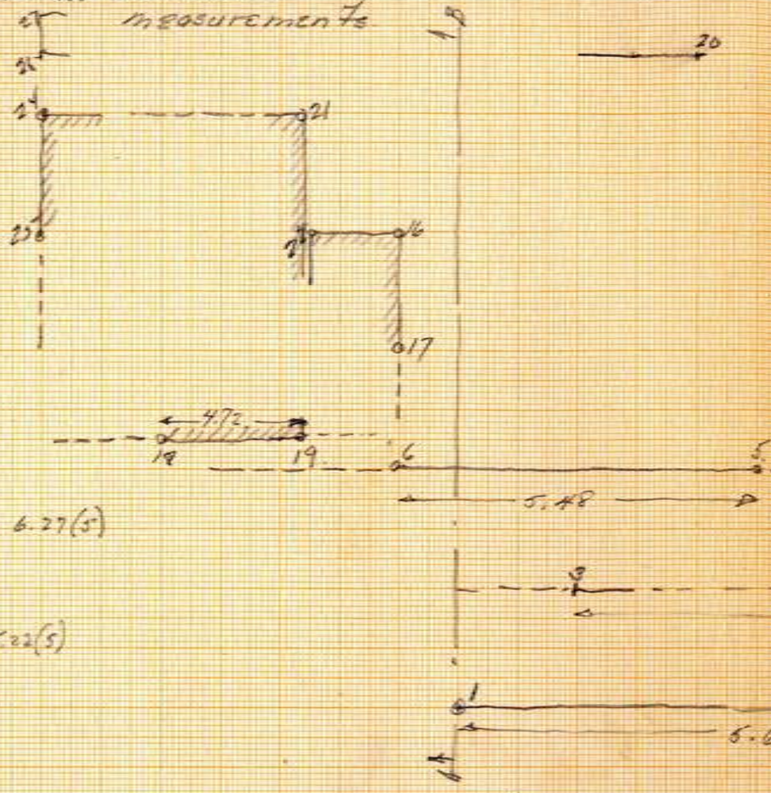

a
b
c
d
e
f
g
h
i
j
I
J
E
F
G
H
Bearing on
Bearing on
Bearing on

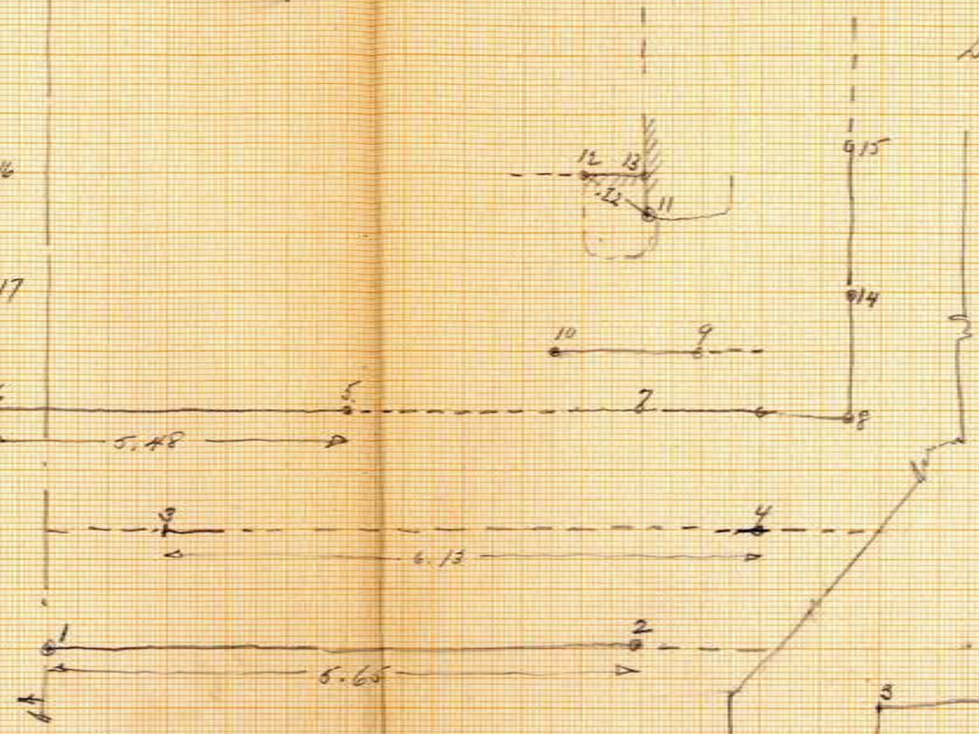
plan & section





Subtract 400m. from all horizontal measurements

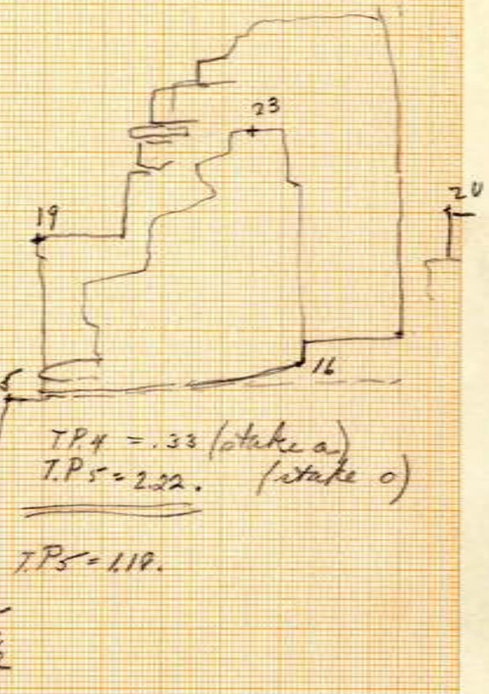




4/28/26.

Q-13.

Left side -
Front terraces & piers.



1 - 5.21 (n) 6.25 (o) 6.26 (6) 6.27 (5)

2 - 6.31 (n) 5.11 (o) 6.27 (7)

3 - 6.26 (n) 5.25 (o) 5.50 (6) 5.22 (5)

4 - 7.53 (n) 4.33 (o) 6.04 (7)

5 - 5.41 (6) 7.47 (n)

6 - 7.23 (n) 7.13 (o)

7 - 5.18 (6) 5.55 (5)

8 - 6.42 (5) 5.48 (o)

9 - 5.37 (6) 5.74 (5)

10 - 5.40 (6) 5.00 (5)

11 - 4.66 (9) 4.68 (10) 5.90 (6) 8.61 (n)

12 - 4.89 (9) 5.52 (6)

13 - 4.18 (11) 4.11 (12)

14 - 6.46 (5) 4.44 (8.

15 - 6.63 (5) 5.12 (8)

16 - 6.20 (6) 5.71 (5)

17 - 4.36 (6) 5.49 (5)

18 - 7.54½ (n) 6.69 (5)

19 - 7.34 (n) 5.95½ (5)

20 - 6.52 (6) 6.44 (5) 6.50 (12)

21 - 5.43 (20) 6.46 (5) 4.78 (16)

22 - 4.47 (16) 4.54 (21)

23 -

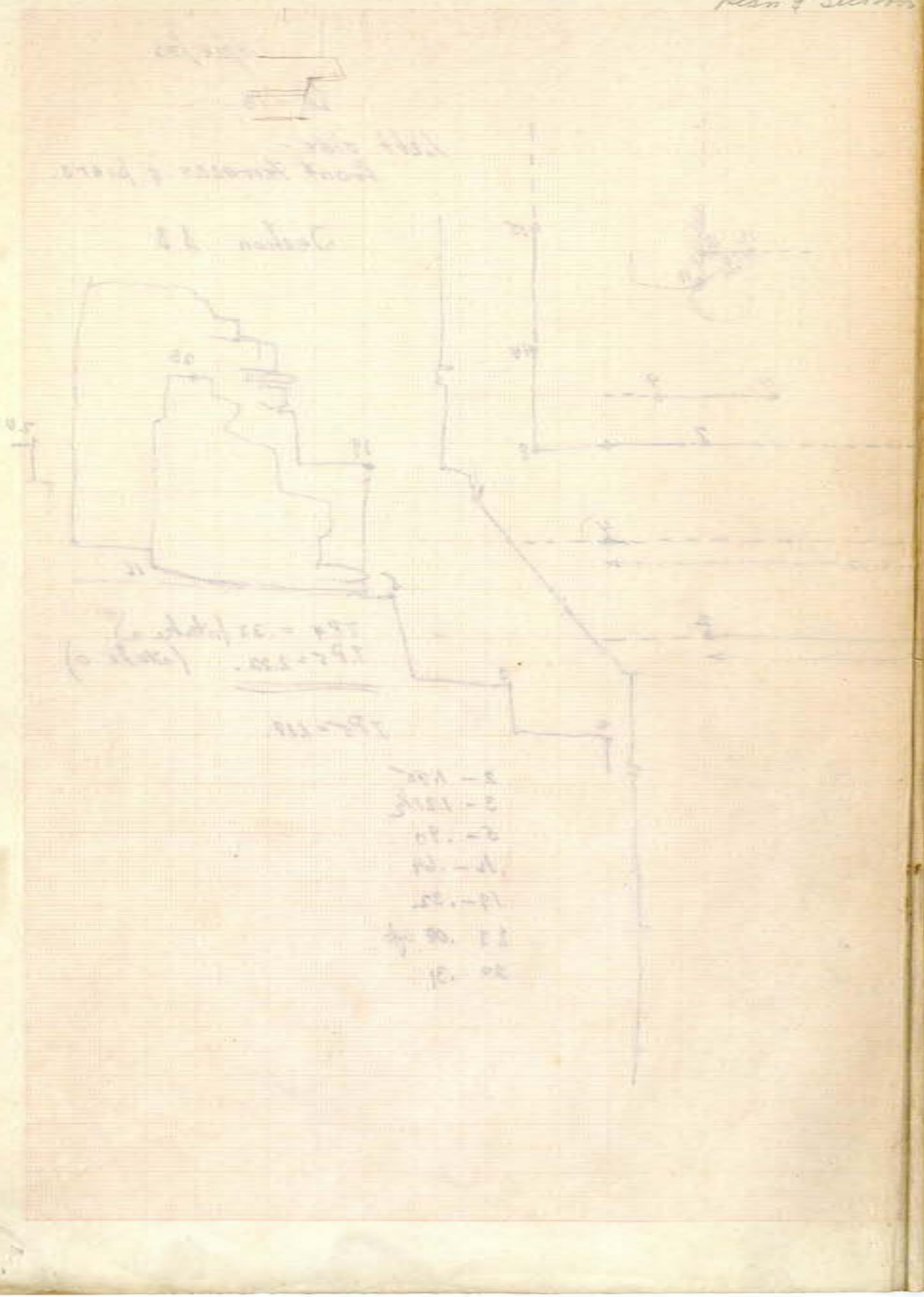
24 - 16.85 (H)

25 - 16.62 (H) 8.54 (n)

26 - 17.08 (H) 4.73 (24) 5.41 (25)

27 - 17.25 (H) 4.55 (26)

Plan & section



All measurements, subtract 9.00 m.

1 - 8.31 (b) 8.58 (c) 11.53 (d)

2 - 9.46 (b) 8.24 (c) 5.43 (1) 4.21 (3)

3 - 9.68 (b) 8.32 (c) 12.26 (a)

4 - 10.08 (b) 8.76 (c) 12.57 (e)

5 - 10.21 (b) 9.12 (c) 4.81 (4).

6 - 10.94 (b) circ 9.50 (c)

7 - 10.01 (b) 7.67 (c) 6.49 (1)

8 - 10.16 (e) 5.39 (12)

(9 - 10.32 (e) 7.31 (8)

10 - 10.24 (c) 7.19 (8) 4.19 (9)

11 - 10.12 (e) 7.16 (8) 4.27 (10)

12 - 6.68 (c) 11.99 (e) 6.11 (4) 6.26 (1)

13 - 4.42 (5) 4.78 (3).

14 - 8.15 (e). 6.97 (1) (on plaster near, but not at bottom.

15 - 4.79 (2) 5.59 (1)

16 - 7.60 (1) 5.93 (3) 8.87 (e) 6.67 (12).

17 - 5.75 (3) 5.20 (5) 6.45 (12). 24 (16)

18 - 5.68 (16) 10.52 (e). 12.40 (b) 6.26 (5)

19 - 5.94 (22) 5.44 (17) 9.26 (e)

20 - .42 (22) .53 (21)

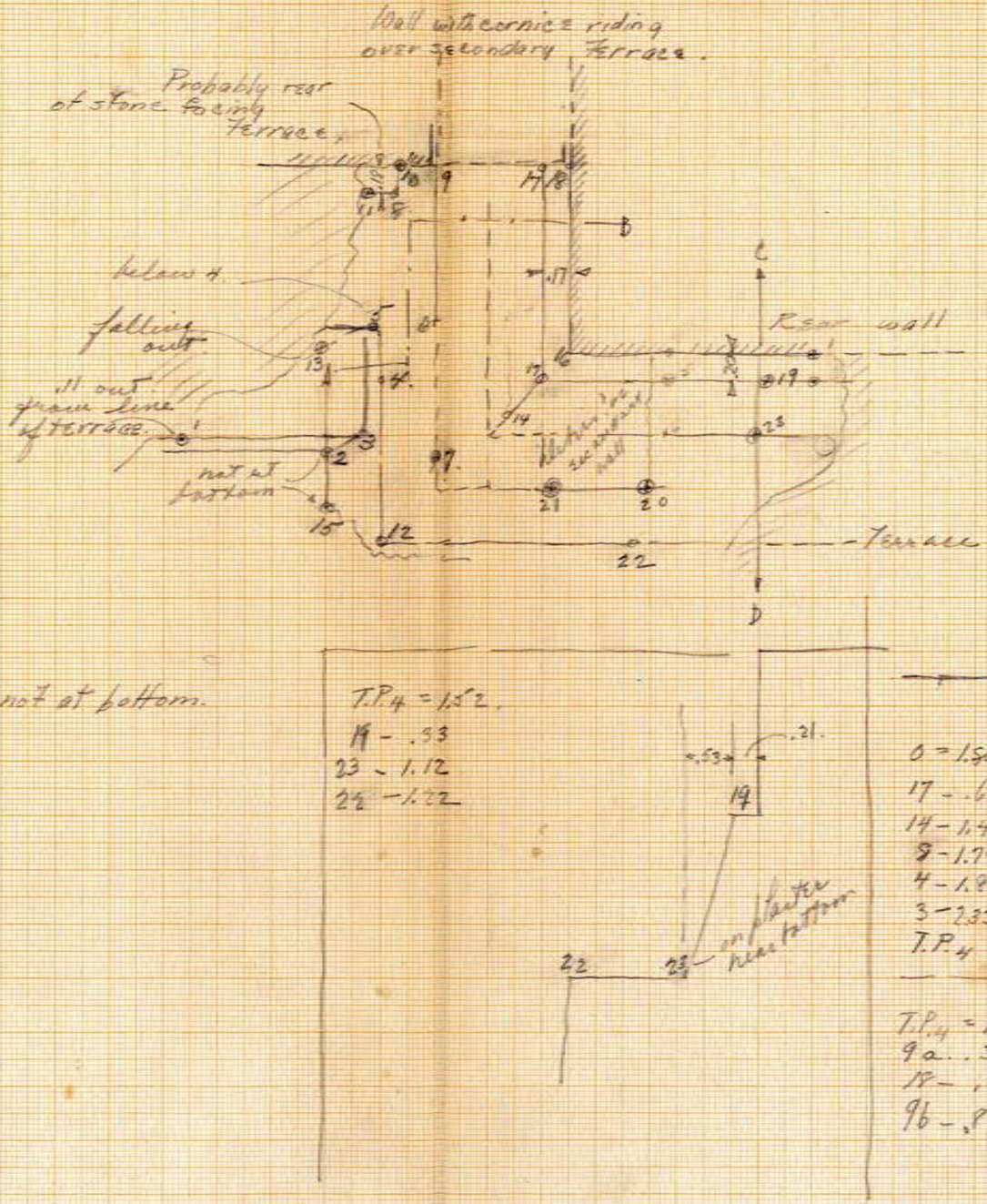
21 - 8.45 (d) 6.11 (12) (22) .65

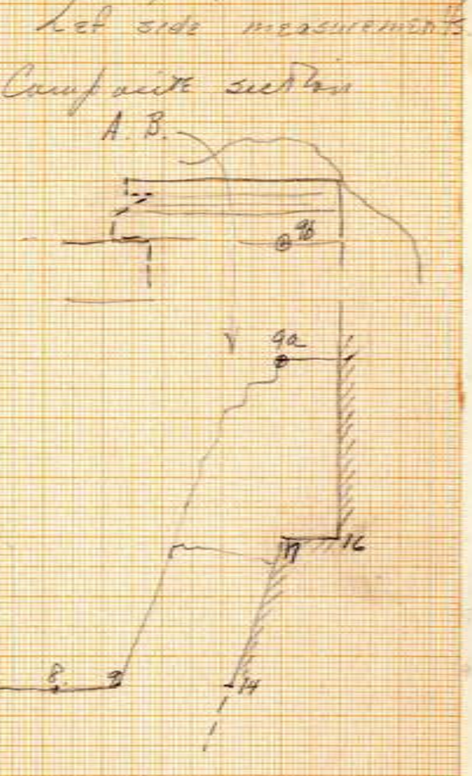
22 - 7.96 (d) 6.56 (12) 7.57 (e)

23 -

24 -

Impossible to locate fill dog out.





C - 13
5/29/36

Left side measurements

Composite section

A. B.

C = 1.50.
17 - .64.
14 - 1.41
8 - 1.79 (circa)
4 - 1.82
3 - 2.33½
T.P.4 as a. - 1.83½.

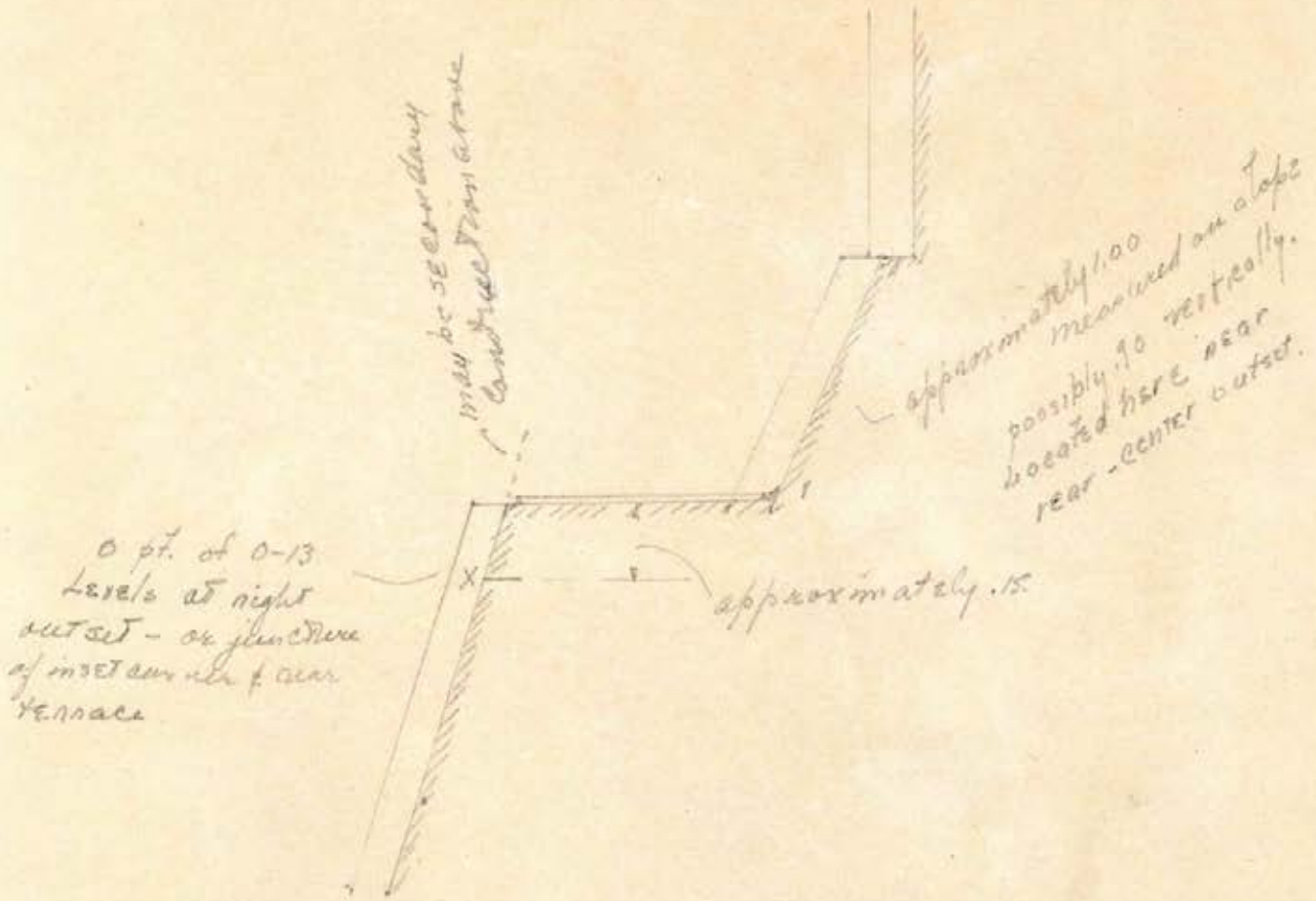
plan & sections

PIEDRAS NEGRAS 193 4 STR. O-13

OP. No. MUSEUM CAT.

SCALE 1 cm to 1 cale SEE PHOTO Nos.

REMARKS Plan at base of rear wall of plinth terrace



Section of panel & steps in front

Section of same steps at center.

Plan of cornice

Cornice - left end

Elevation of panel.

Left jamb of rt door from right.

Rt jamb of right door from left

Sections of cornice

Corner of original Chapin house to have no cornice at this level.

Scotchbrook red cement mortar with black mortar lines with 596

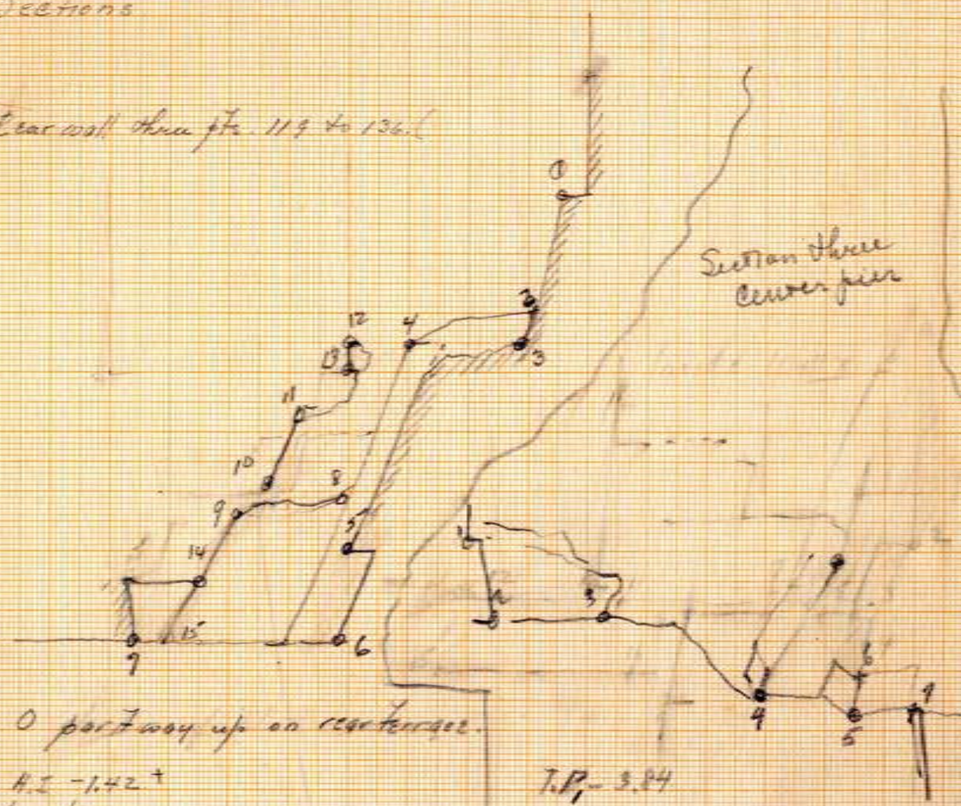
KEUFFEL & ESSER CO., N. Y. NO. 359-151
Millimeters

details

C-13)
1/25/30.

Sections

Rear wall thru pts. 119 to 136



0 part way up on rectangle.

H.I -1.42 +

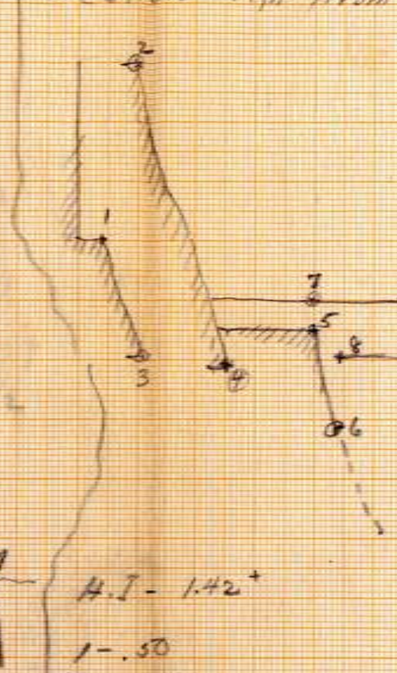
Lead down

1. .29
2 - 1.08 1/2
3 1.42
4 - 1.01.
5 - 3.04
6 - 3.85
7 -
8 -
9 - 2.47.
10 - 2.11
11 - 1.78.
12 - 1.04
13 - 1.26
14 - 3.28 -
15 - 3.76.

T.P.1 - 3.84

1 - .74
3 - .99 1/2
4 - 2.14
5 - 2.63
6 - 2.26
7 - 2.92

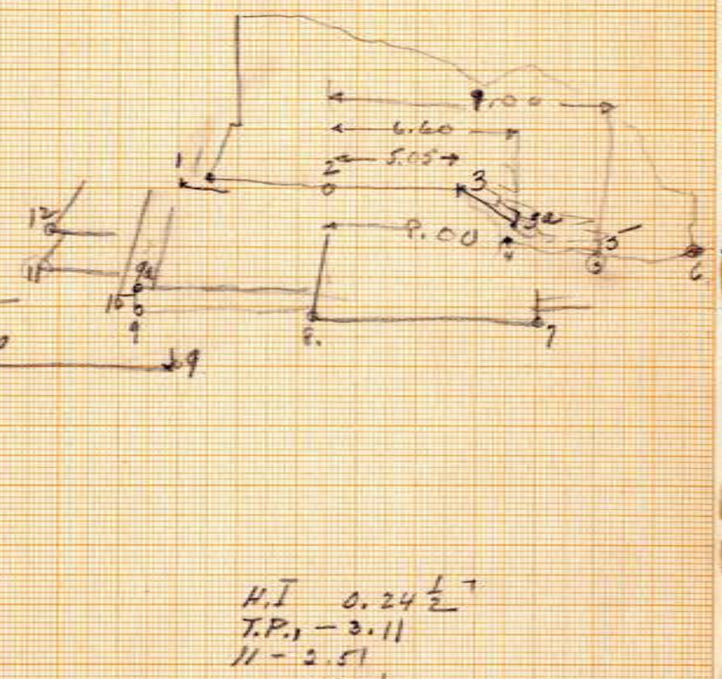
Section right from rear



H.I - 1.42 +

1 - .50
2 - .08.
3 - 1.43
4 - 1.56.
5 - 1.64
7 - 1.53
6 - 2.62
8 - 2.17
10 - 2.21
9 - 2.45

Right side Blade
vertical 4 ac

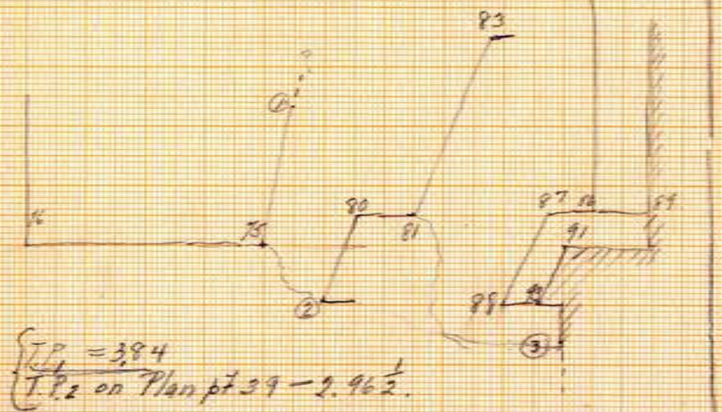


H.I 0.24 1/2 +
T.P.1 - 3.11
11 - 2.51
12 - 1.87 1/2
10 - 2.95
9a - 2.99
9 - 3.41.
8 - 3.29 1/2
7 - 3.27.
6 - 3.20
5 - 2.94
4 - 3.67
3a - 2.24
3 - 1.48.
2 - 1.32 1/2 - Plan point.
1 - 1.40.

6-13.
5/23/34

Detail Sections on Light

Section facing back behind Wall X

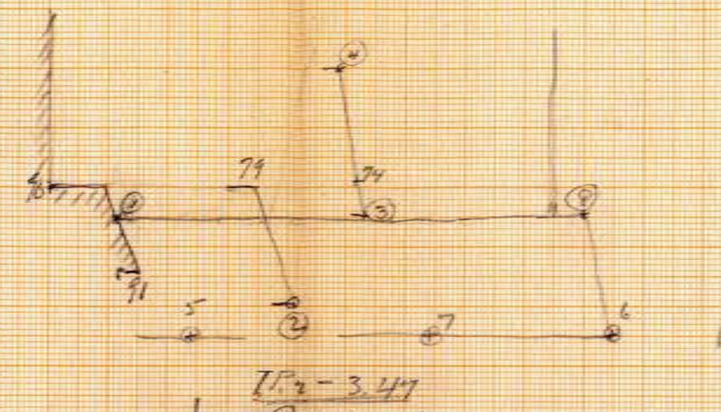


T.P. = 3.84
T.P.2 on Plan pt 39 - 2.96½.

T.P.2 - 3.47

87 - .71
91 - 1.04½
88 - 1.67½
93 - 1.78.
63 - .06½
81 - 1.62½
80 - 1.67½
③ - 2.17
② - 2.23
75 - 1.60
① - .17
96 - 1.85

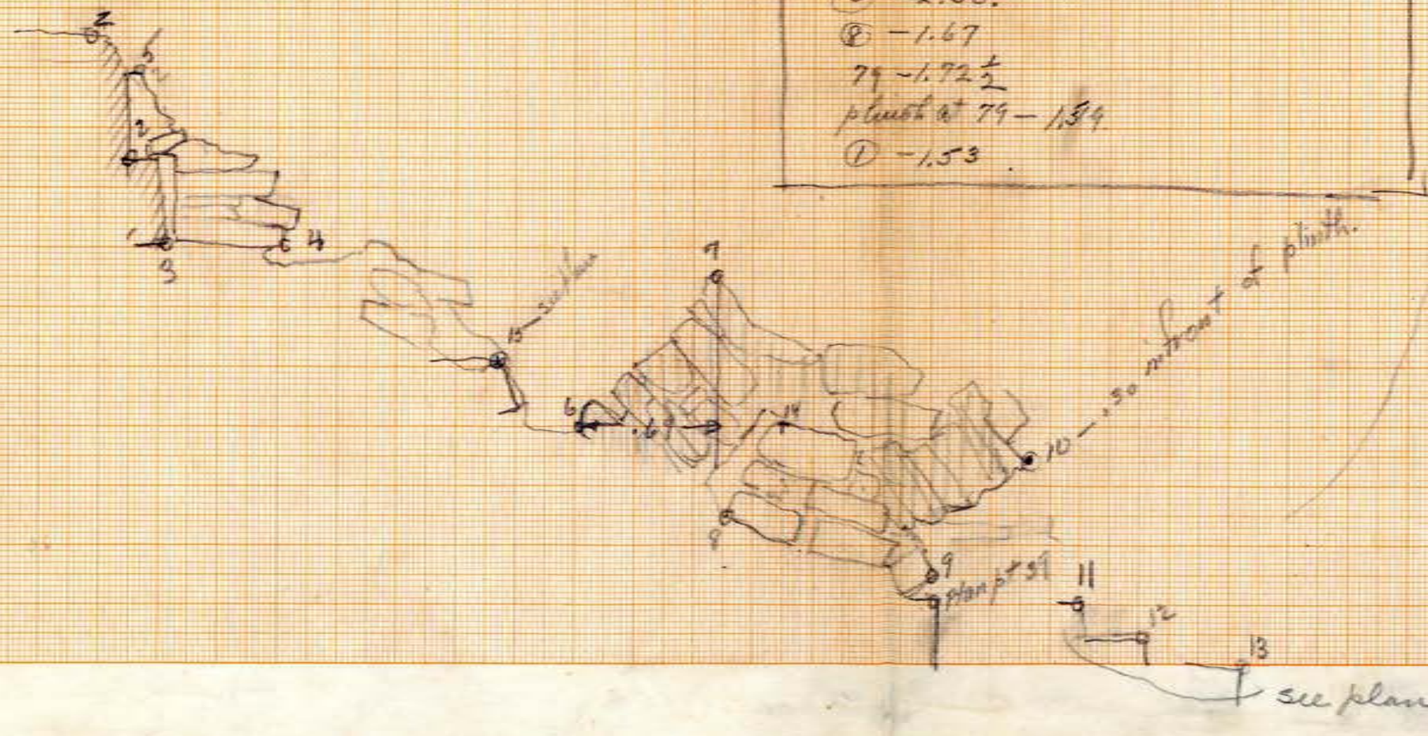
Section facing front behind Wall X.

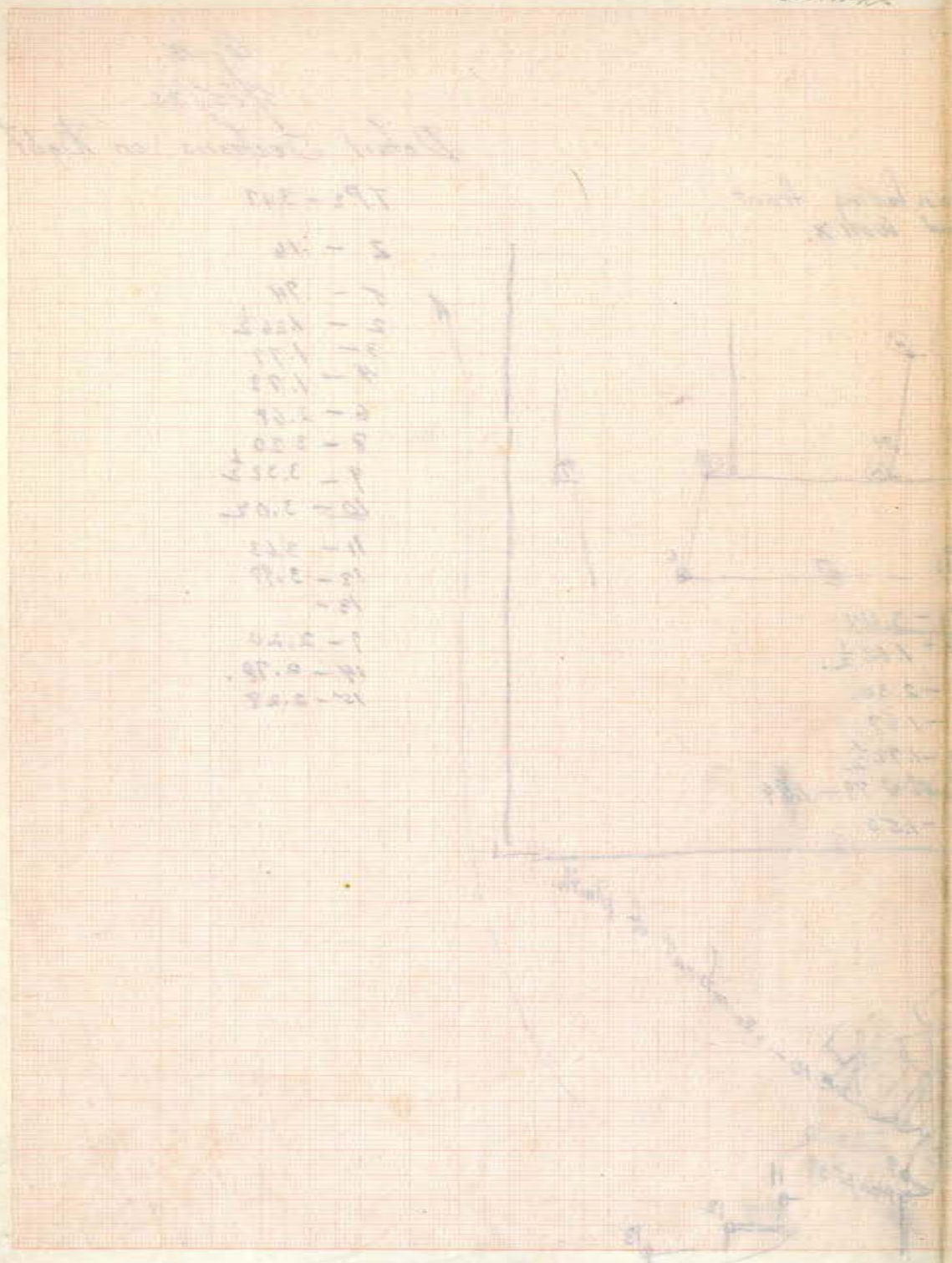


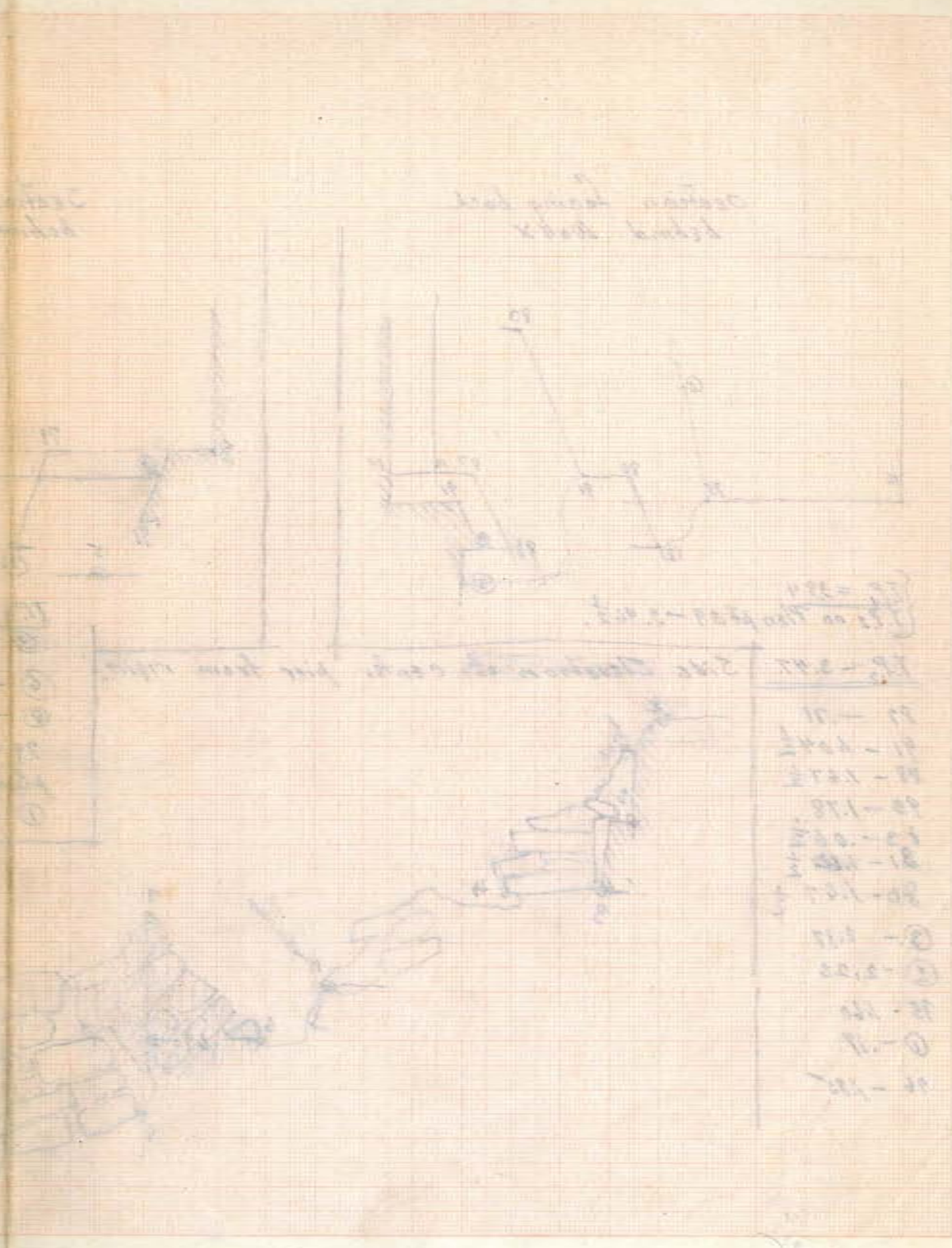
T.P.2 - 3.47
③ - 1.66½.
⑥ - 2.30.
⑧ - 1.67
79 - 1.72½
plumb at 79 - 1.54
① - 1.53

T.P.2 - 3.47
2 - .16
5 - .74
2 - 1.26½
3 - 1.77
4 - 1.73
6 - 2.68
8 - 3.20½
9 - 3.32½
10 - 3.02
11 - 3.43
12 - 3.99
13 -
7 - 2.20
14 - 2.78.
15 - 2.28

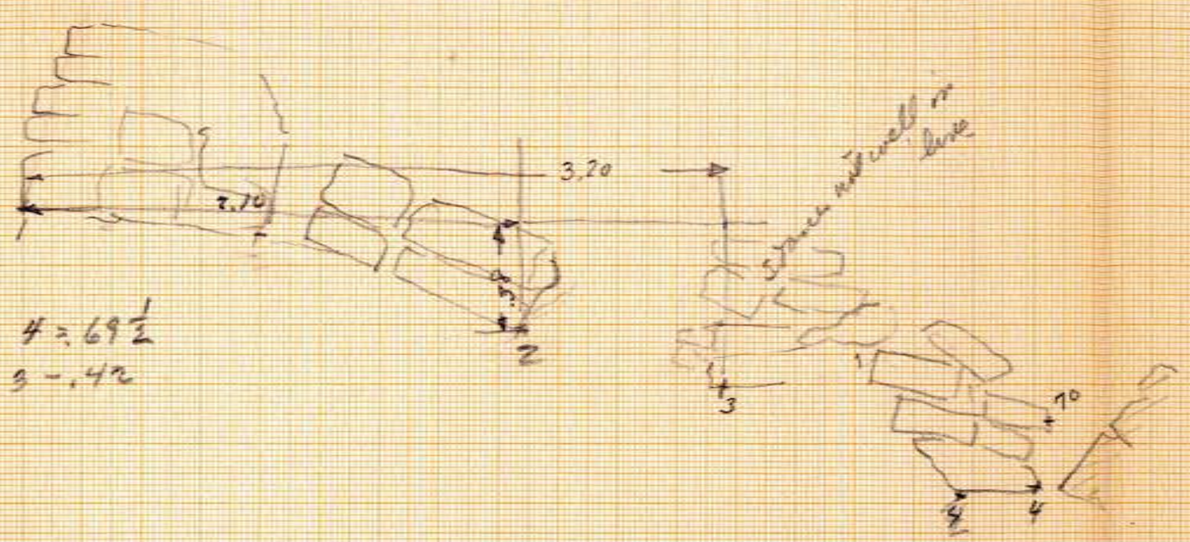
Side Elevation of center pier from right.







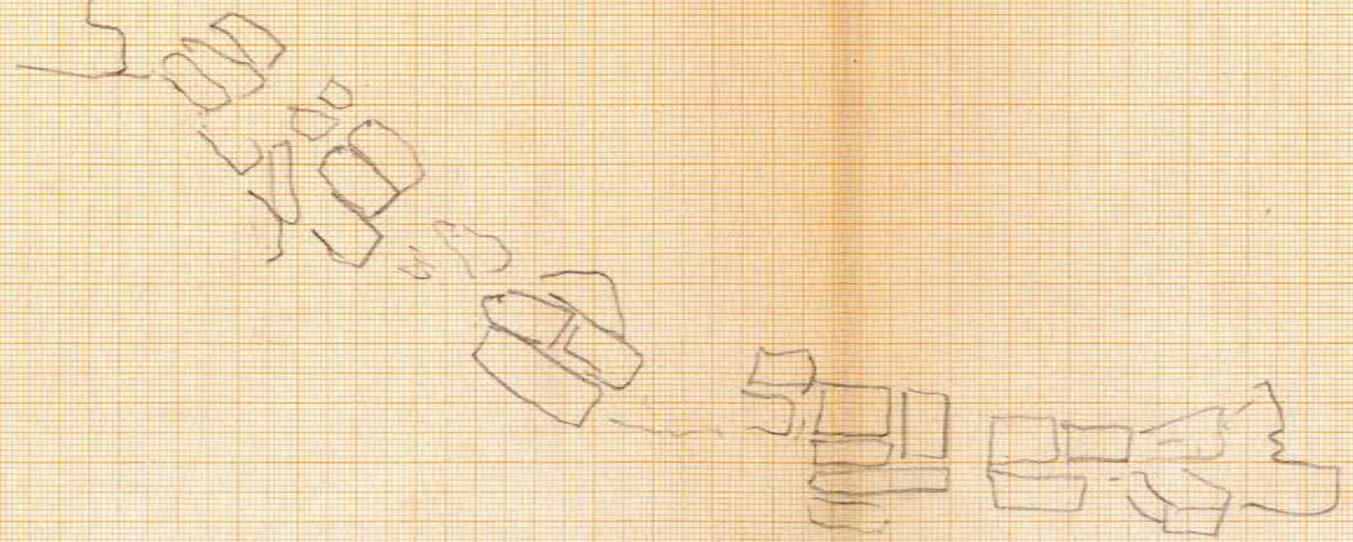
Wall 73-70-



$\frac{1}{4} = 69\frac{1}{2}$

$3 = .42$

Wall 97-57-



T.P. 3 at Pt. 39 = .65½

Q-13
Left-side
Apt 5

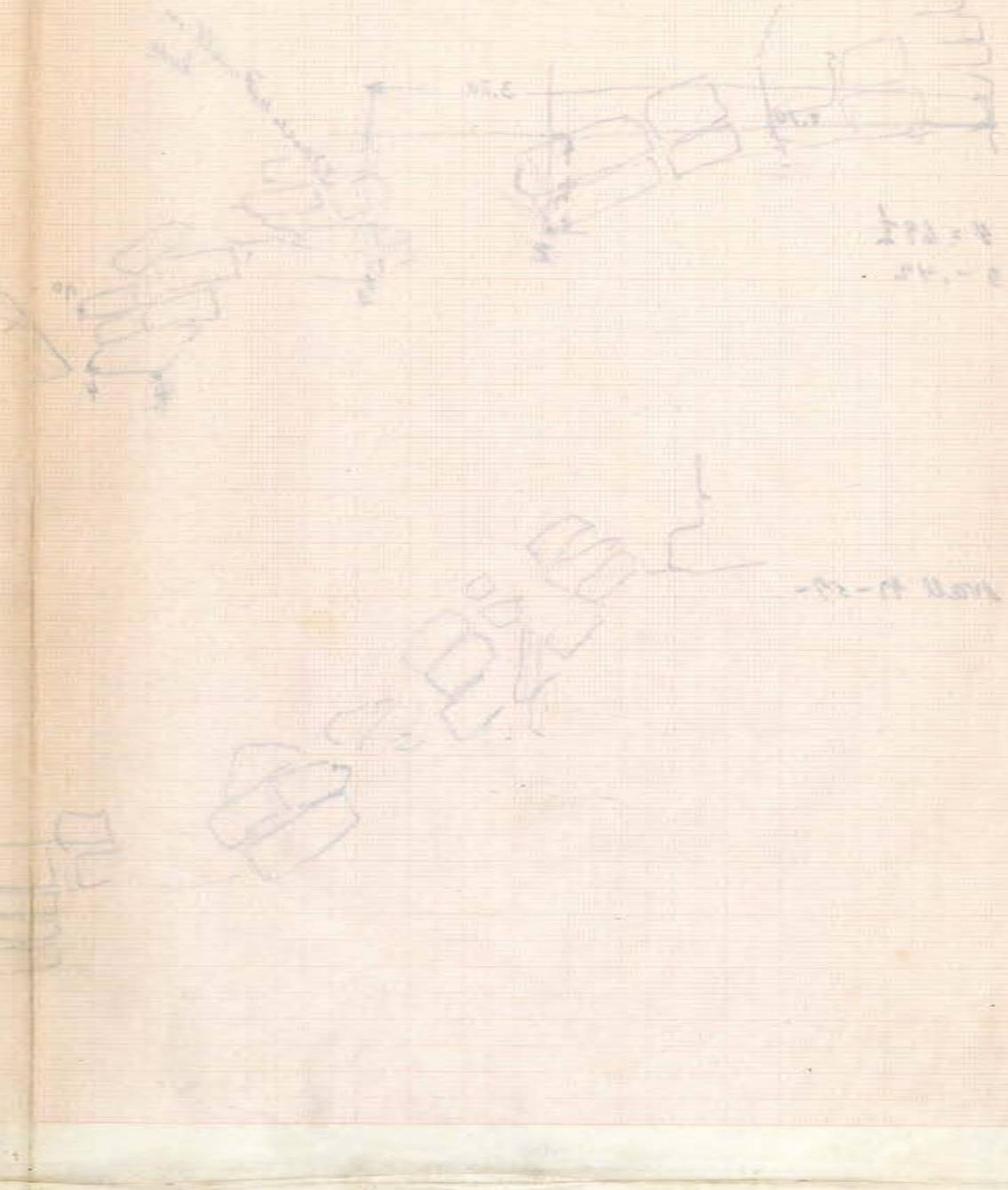
Corrected levels

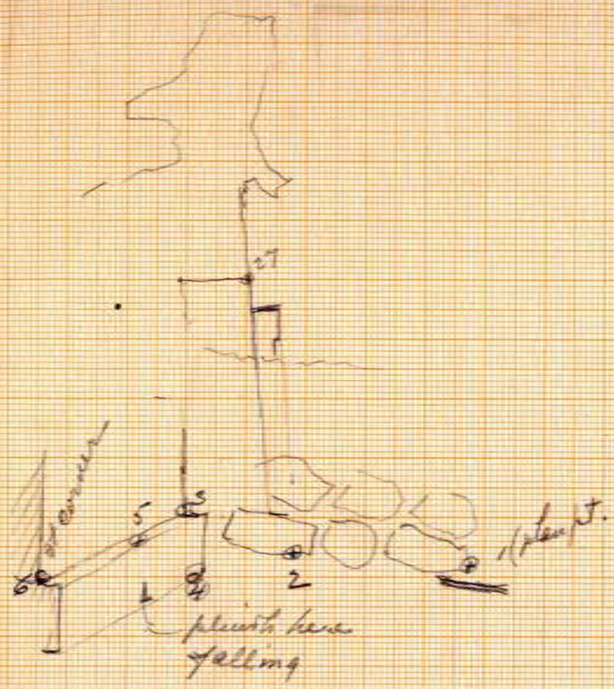
Pt. 151-

Wall 150 151 contours (?) 3.84 m.
frame pt. 150, broken
at front end.

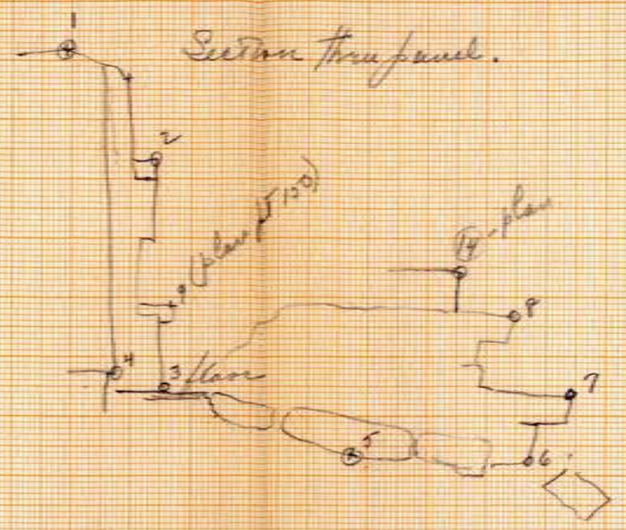
Pt at front of wall.

KEUFFEL & ESSER CO., N. Y. NO. 358-145
Millimeters





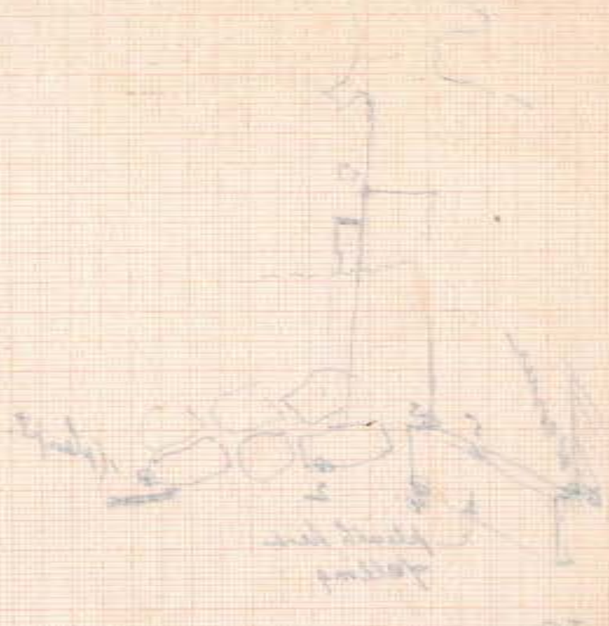
T.P. 3 — .15
1 — 1.42
2 — 1.26
3 — .97
5 — 1.23. (opposite plan pt)
6 — 1.28 (at corner)



T.P. 1 = 1.38
T.P. 3 — 1.92 on plan pt. 27.

T.P. 3 — .15
4 — 1.11½
3 — 1.37
9 — .93½
14 — .81
8 — 1.01
7 — 1.34
6 — 1.62

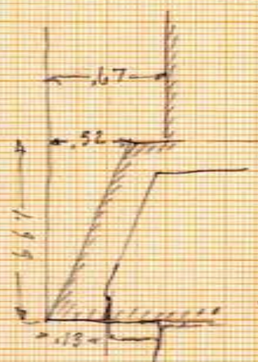
KEUFFEL & ESSER CO., N.Y. NO. 340-141
Millimeters



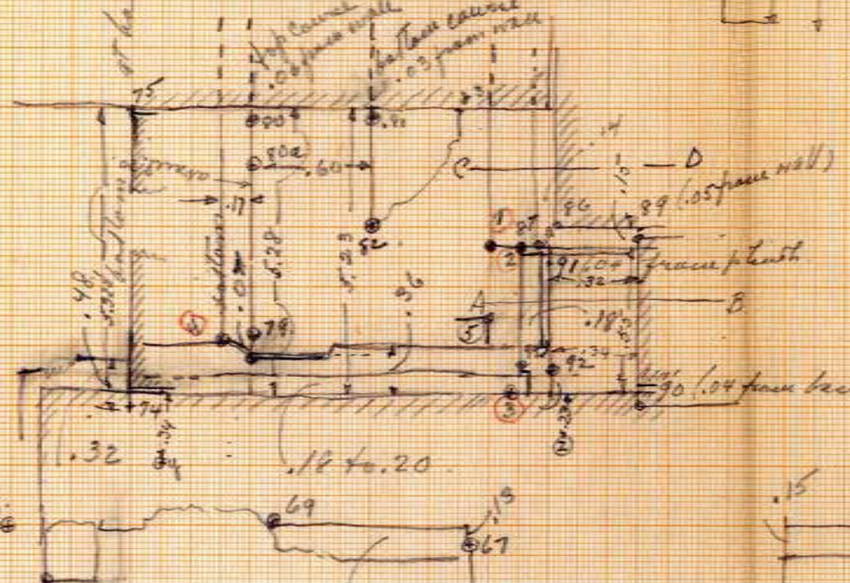
Check rear area east) —

y 10.71(x) 5.68(x) 6.92(w) 5.65(z)
z 10.91(w) 7.27(x) 6.77(w)
x 10.39(y)

Section C-D.



Detail correction of rear room


.15 (from face of wall)
.50 (from face of wall)
.60
.17
.52
.05 (from face of wall)
.89 (.05 from wall)
.91
.32
.18
.90 (.04 from face of wall)
.32
.18 to .20
.48
.13
.28
.03
.10
.79
.74
.34
.92
.34
.36
.93
.96
.94
.74
.69
.67
.15
.66
.08
.25
.03
.14
.10
.16
.10
.25
.15
.14
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.05
.08
.25
.10
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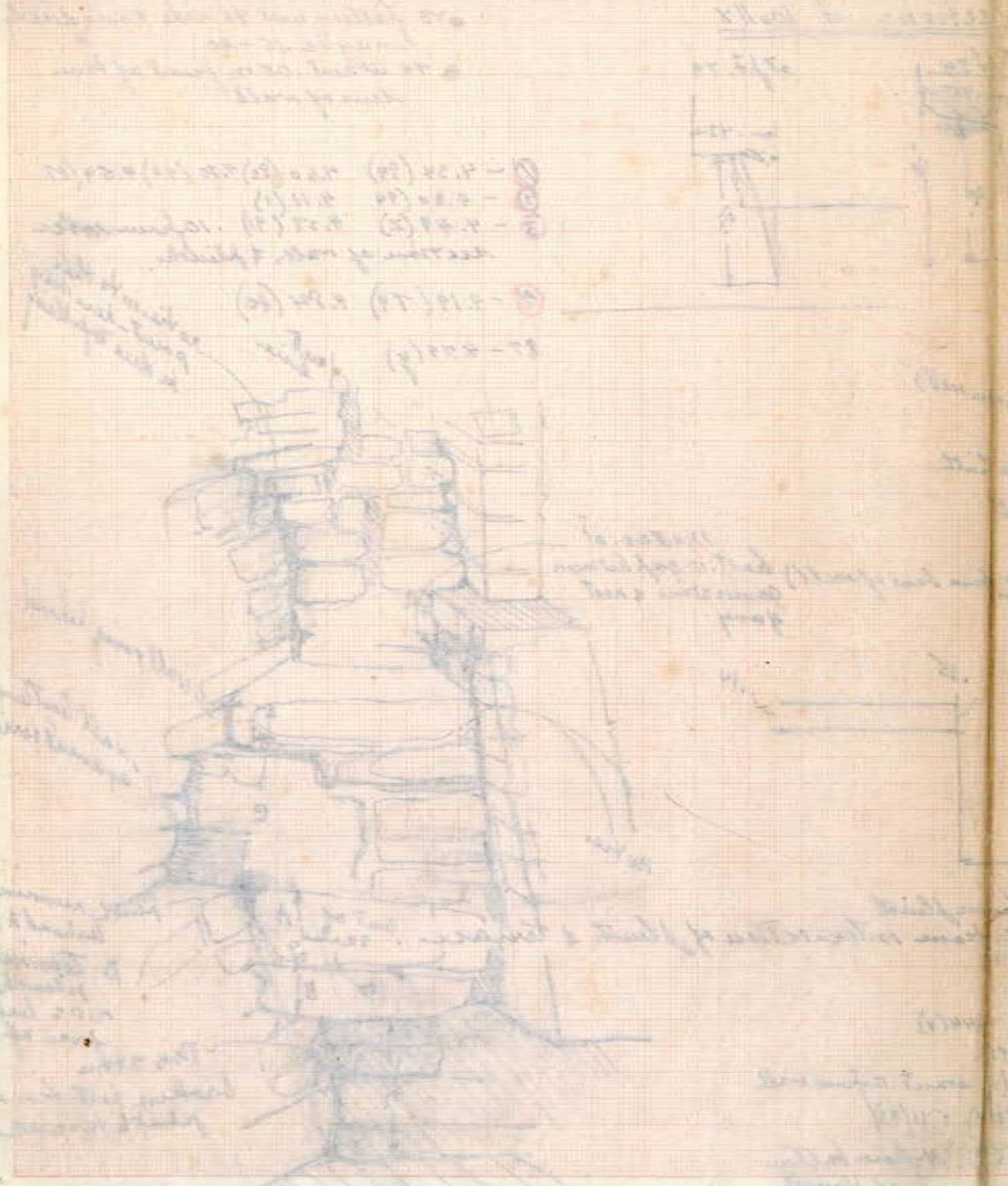
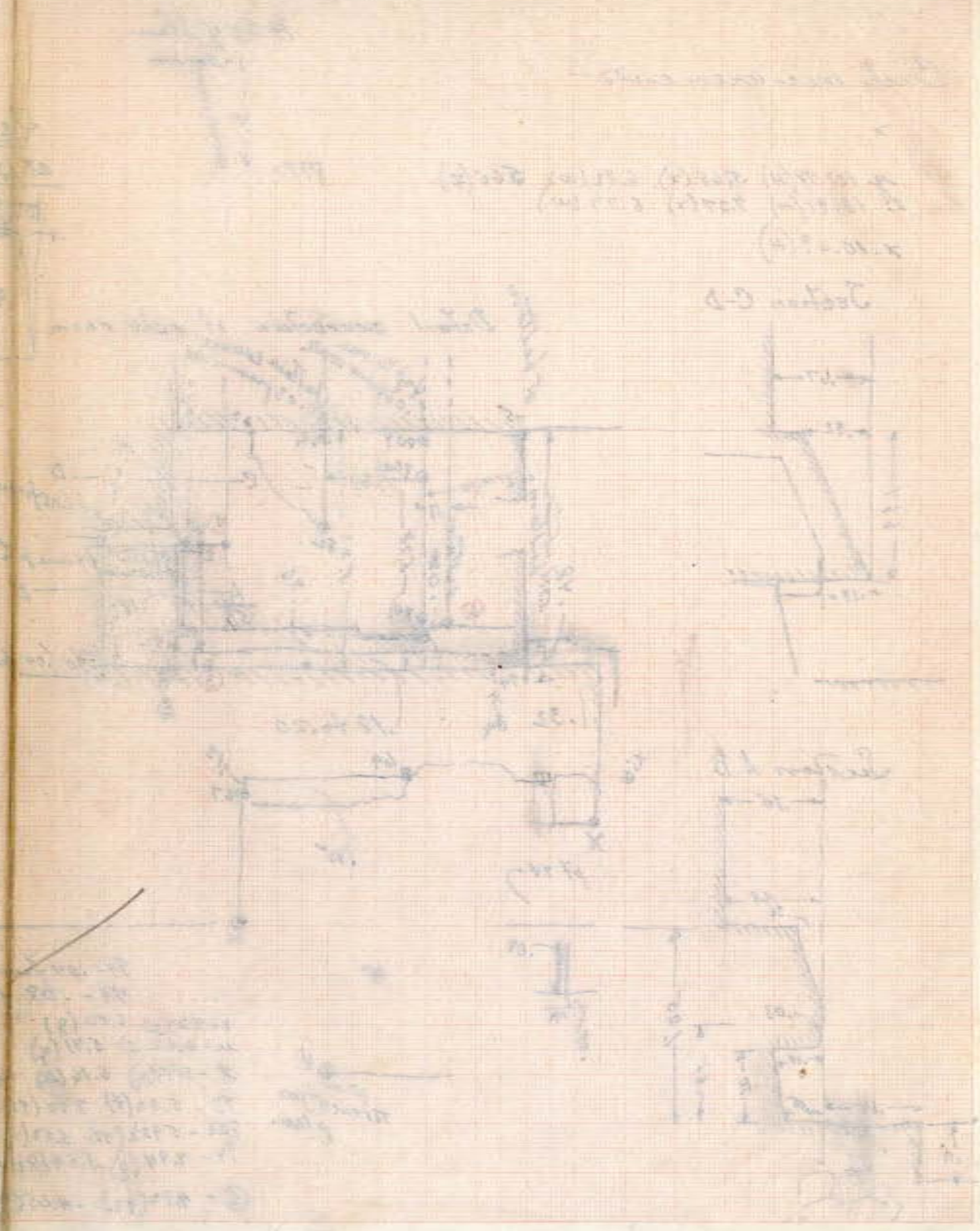
.14
.16
.10
.05
.08
.25
.10
.15
.14
.16
.10
.05
.08
.25
.10

plan & details





Miscellaneous note.

Rear wall Rt. curves, Studs at setback to Rt of 1.85 m. breaking off in a straight horizontal line.

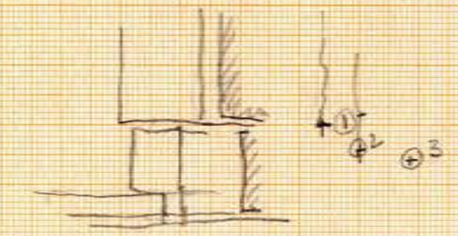
H.I. 2.95.

a - 2.13

b - 3.09.

Section back of wall x right side

Plan



① - 2.14 (same as a. break in wall, new frame ruined side breaks off at this pt.

② - 2.63 (- floor seen at this level.

③ - 3.17 - Section of Repin indent.

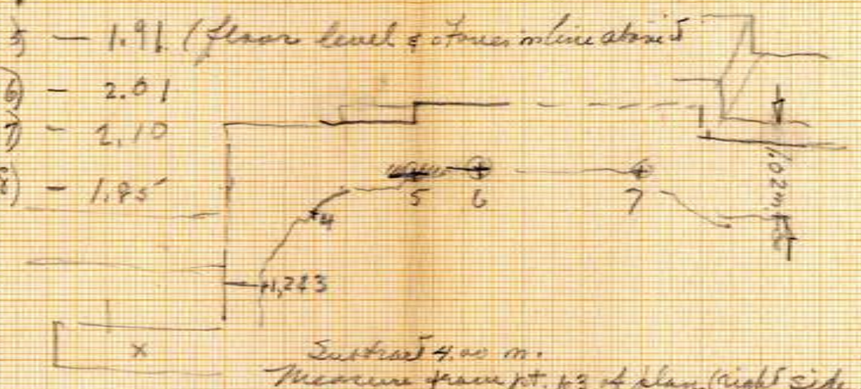
④ - 1.94

⑤ - 1.91 (floor level & Tower in line about 5

⑥ - 2.01

⑦ - 2.10

⑧ - 1.85



Subtract 4.00 m.

Measure from pt. 63 of plan (right side)

① - 5.63

② - 5.73

③ - 5.60

④ - 7.79

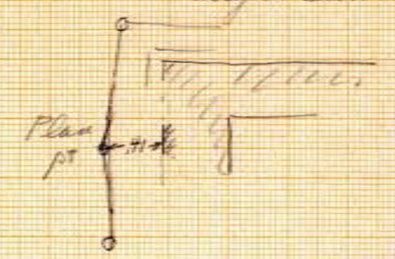
⑤ - 9.60

⑥ - 10.98

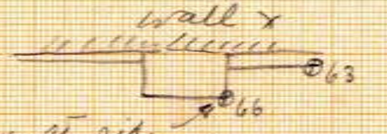
⑦ - 14.27

⑧ -

right side wall



wall x



At pt 66(7) of plan, Rt. side
readings to nearest .05'
0 are pt. in pf traverse

① - 97° 30'

② - 94° 10'

③ - 88° 05'

⑤ - 82° 42'

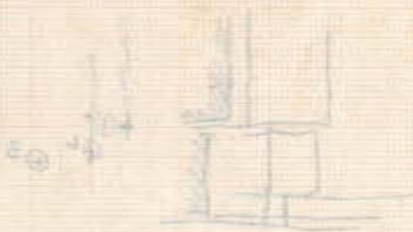
④ - 92° - 15'

6 - 74° - 45'

7 - 57°?

(maybe 57°)

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



Agenda.

R-4. Important:

1) Level of stairway corners.
2) Location of starting pt. of section. (how far in front of 1st step?
3) At intersection of apron carries & wall Check slope by direct meas. from face of dentil to carries if possible
4) Check secondary pt. 2 if possible by meas. from pt. 1, on round corner.
7) Slope of inset panel

7. Level of corner
6. Corner width

R-5 – Check – 1) pt. of possible rear wall.
2) – stone meas. front side of niche.
3) – slope if any of secondary block near stairway (1st terrace)
4) – Joint of 2nd terrace – block on stairway
5) Check on pt. 18.
6) Max. ht. side bldg. terrace.
7) Slope – bldg. terrace & plinth (front & rear)
8) Vert. meas. niche
9) Bldg. – front line stairway
10) Ext terrace – line of stones in front of stairway

PIEDRAS NEGRAS ..... 193 ..... STR. .....

CP. No. ..... MUSEUM CAT. .....

SCALE ..... SEE PHOTO Nos. .....

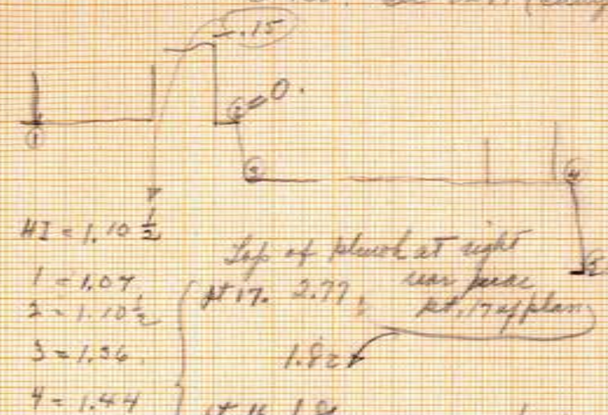
REMARKS .....

May 1937

Jhr. 113.

add. .05 to data = not to corrected mean.

Outlet Section (found)



HI = 1.10½

1 = 1.04
2 = 1.10½
3 = 1.36
4 = 1.44
5 = 2.10
6 = 2.34
7 = 4.06

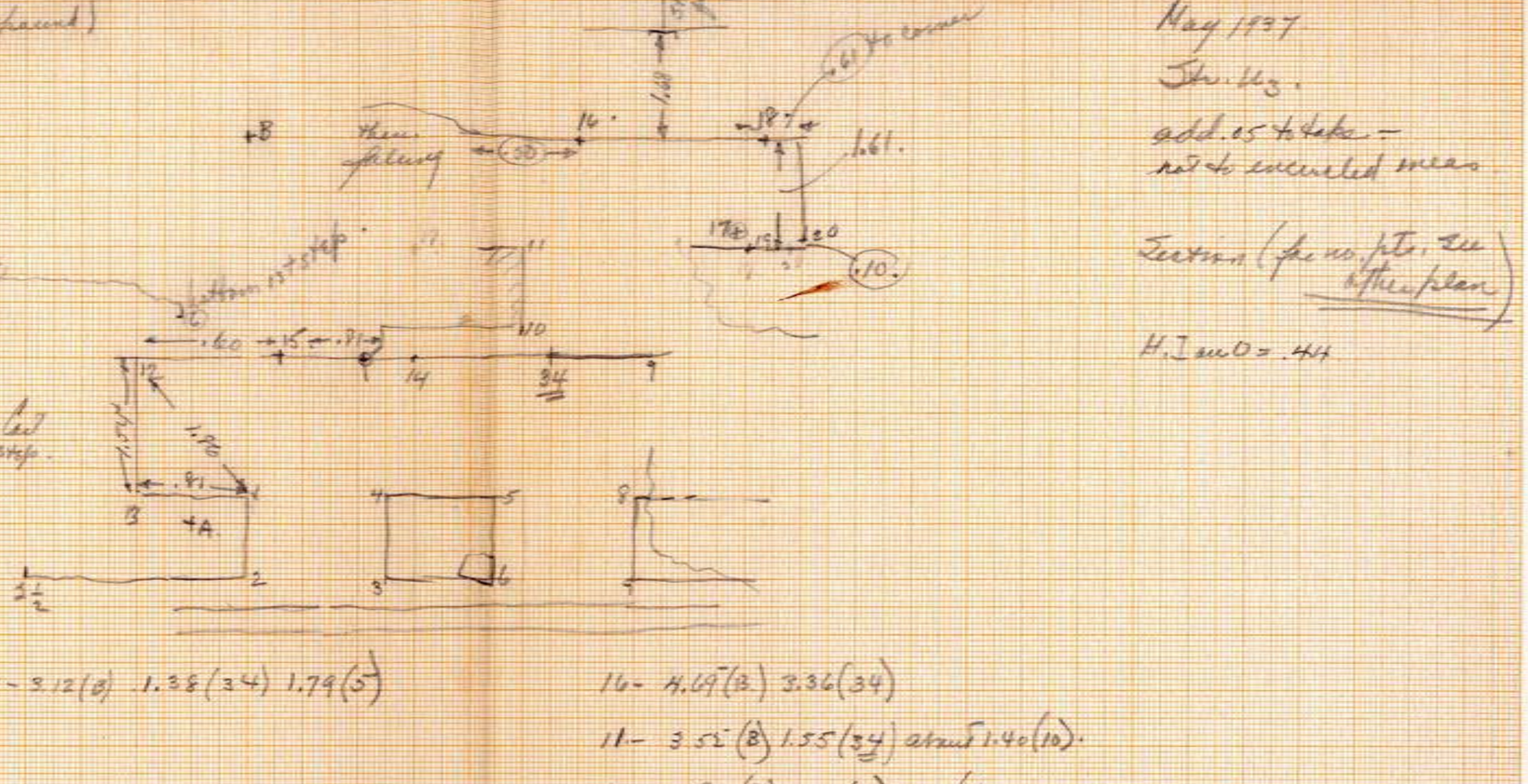
Top of plank at right near post pt. 17 2.79 ½
pt. 17 plan
1.82
pt. 16 1.86
See notes plan.

Bottom (at) 7.

Earlier Section at outlet.

T.P. 1 = 2.95 ½

12 of this plan – bottom of plank = 1.65



1

2 1.04(1). 1.35(2½).

3 1.04(4) 2.42(1).

4 - 2.44(34) 2.20(1) 1.38(14).

5 - 1.59(34) 4.94(8) 1.79(14) 1.2

6 = 2.74(34) (falling

7

8 - 6.70(8) 2.33(5) 2.67(6).

9 - 7.34(8) 1.16(9) 2.25(6).

10 - 1.22(17).

14 - 3.12(8) 1.38(34) 1.79(5)

16 - 4.69(8) 3.36(34)

11 - 3.52(8) 1.55(34) about 1.40(10).

17 - 5.81(8) 4.12(5) 1.94(16).

18 - 1.84(17) 2.19(16).

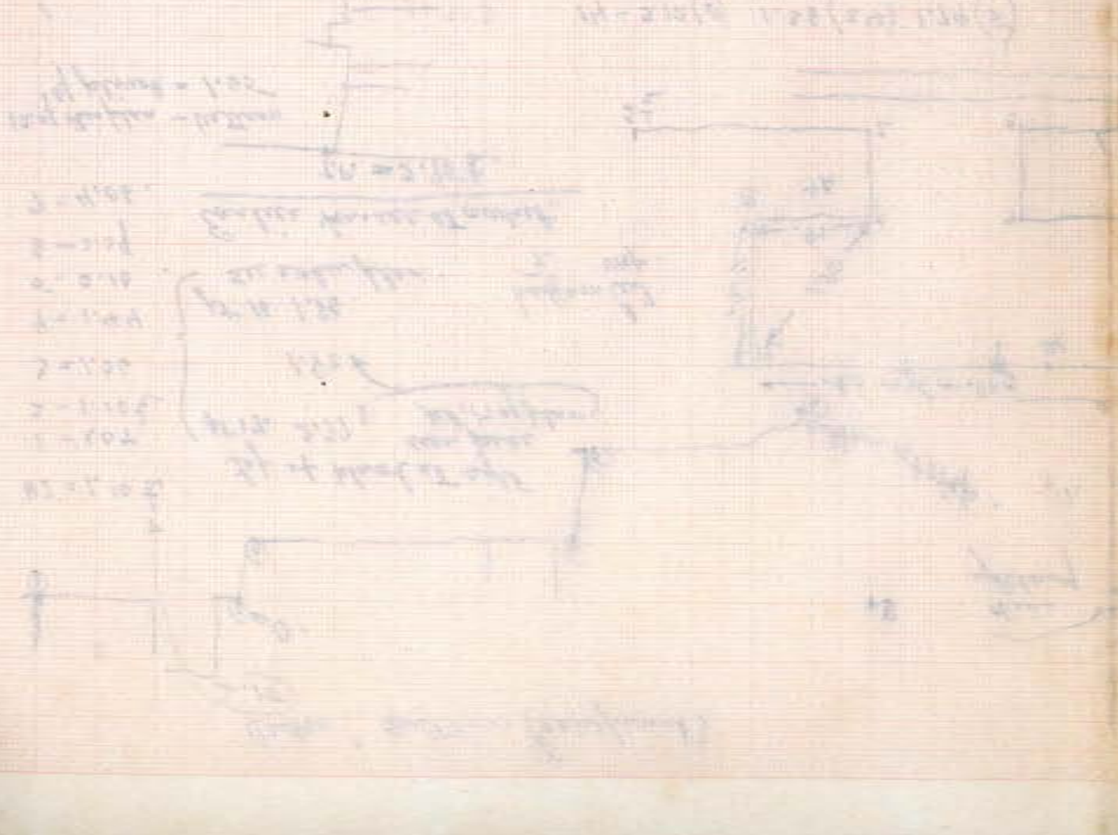
19. 1.85(18) 1.98(16).

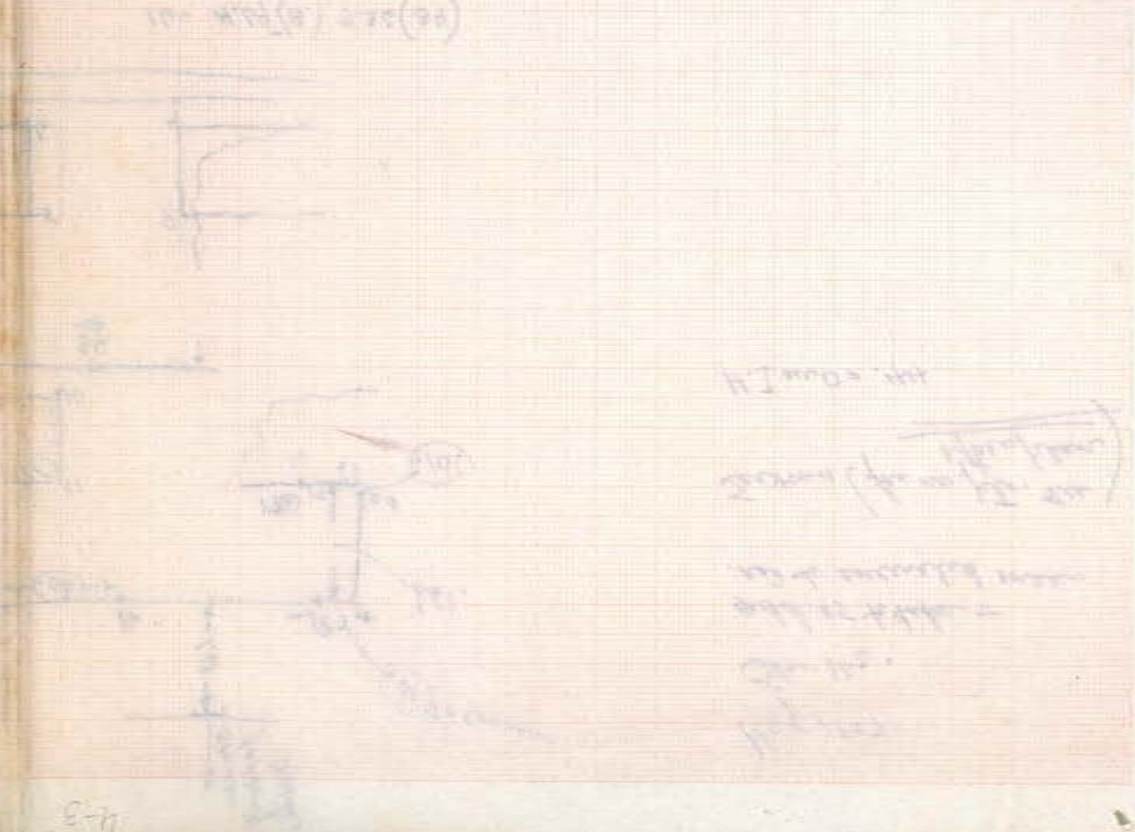
20 - 1.49(19) 1.66(18.)

Sections (for no. pts. see other plan)

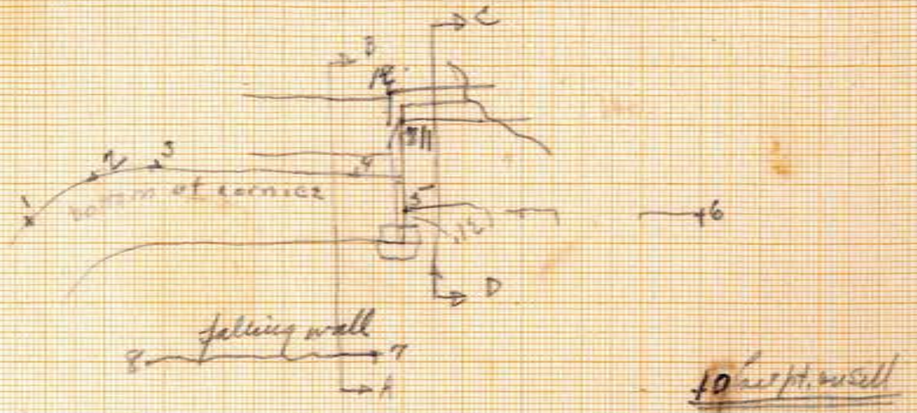
H.I. = 0 = .44

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



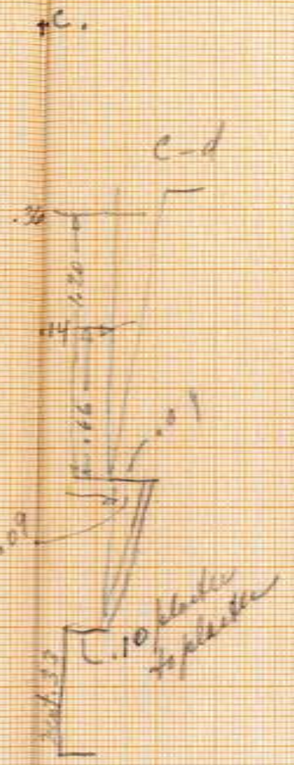


U-3

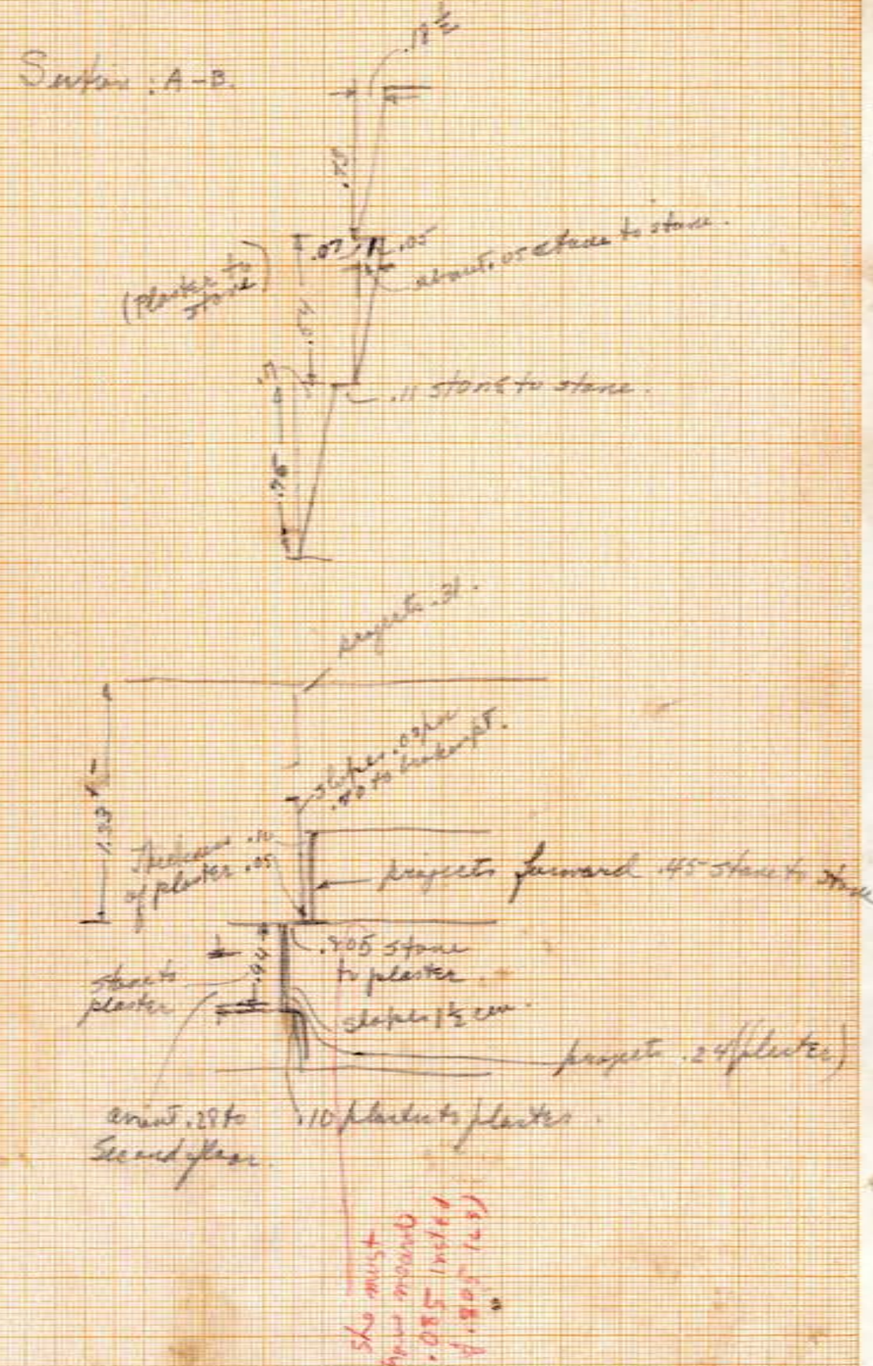


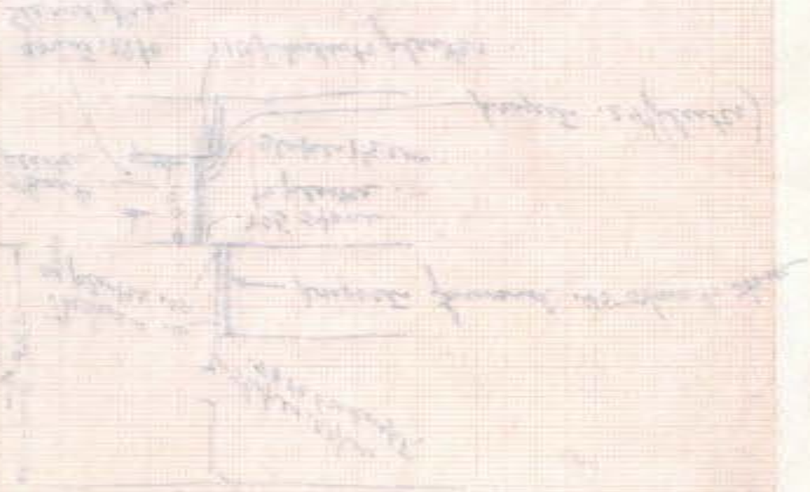
10 Left. wall

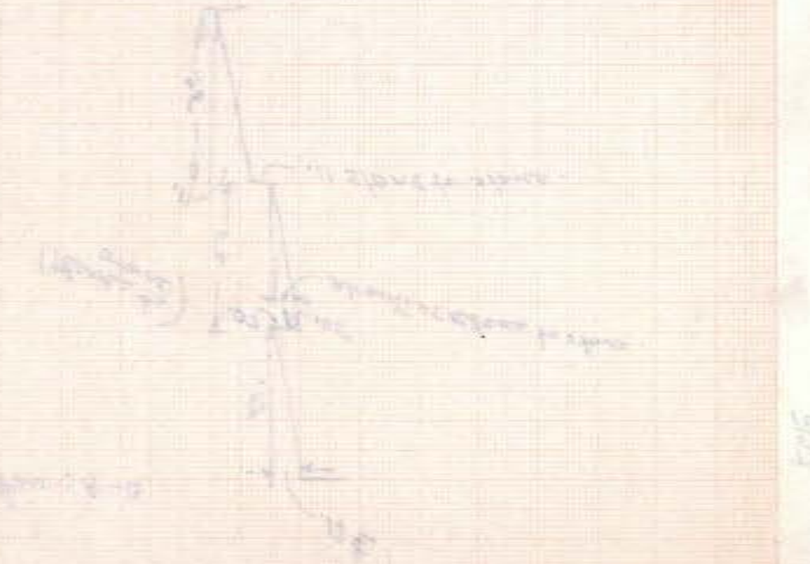
1 left wall (U-3 1st)
1 5.34 (c) 1.22 (9)
2 5.16 (c) 1.34 (9)
3 4.70 (c) 1.46 (9)
4 3.64 (c) 1.94 (9) 1.97 (10)
5 3.49 (c) 2.09 (9) 1.93 (10)
6 2.48 (c) 1.52 (10)
7 4.09 (c) 1.15 (9)
8 4.99 (c) .93 (9)
11 .31 (4) 1.11 (3)
(ceil plaster) 12 .20 (4) 1.15 (3)



U-3-2nd

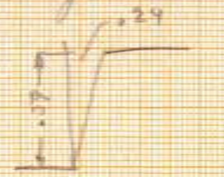

Section A-B
.11 stone to stone
(plaster to plaster)
.07
.05
.11
.10
.05
.10
.10
.10





"Block" wall center stair = .65 area top and step

Terrace at front - with steps = .95 cu. yds.

Plinth 

Piers - 1 stone apart, 18 in front, about .70 cu. yds falling forward.

Side wall - greatest ht. front - 1.35.

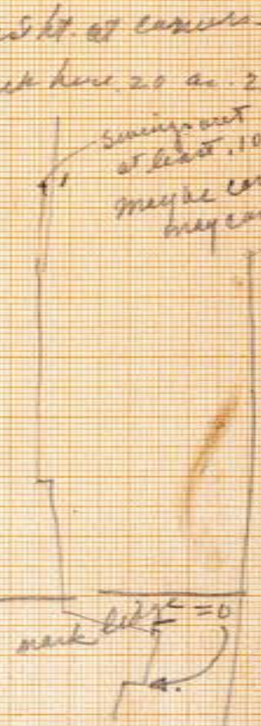
Front to rear room - front 1.00 falling back about .25
1 rear - 1 stone

Rear room - rear & front walls greatest ht. of curve - about 1.05 m. ~~stair~~ Rear wall falls back here .20 to .25.

Set pt. side corner terrace wall - 1 -

N as found set -
162° 28'
dist = 10.13

~~Bearing Pt. =~~
Mag. N = 52° 27'



Tie-in Ends of U-3, R-1, & R-10

Stake 4 of R-1 = 2.96.

R_1 - at side of Stair platform on Lenox Ave - top of

Step -

.64 = top 1st step R-10.

Bearing line - Stake in front of R-9 - 2 stakes; N on sup. & on 1st. N = 339° 37'

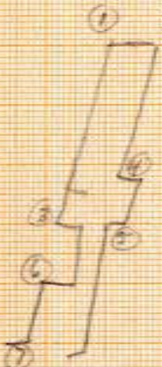
4-3

Right of wall
Add .25 to top.

Levels. 0 = top of sill rear doorway to rear room.

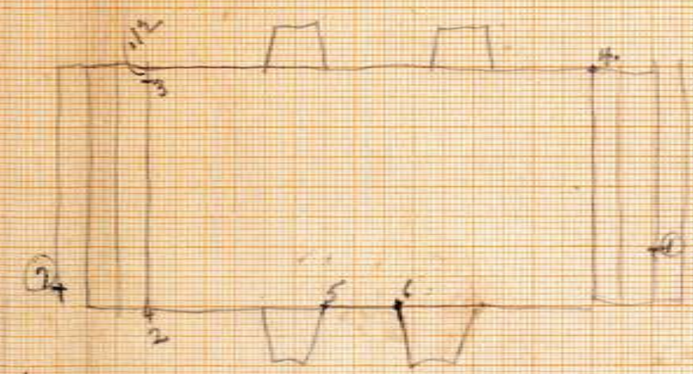
A.I = .25.
base of "block" - 2.62
to steps.

Stake A_1 - 2.41



1 = 2.10
2 = 2.10
3 - ~~2.75~~ 3.34
4 - 2.84½
5 - 3.41
6 - 3.84

buried in front of U. 3.

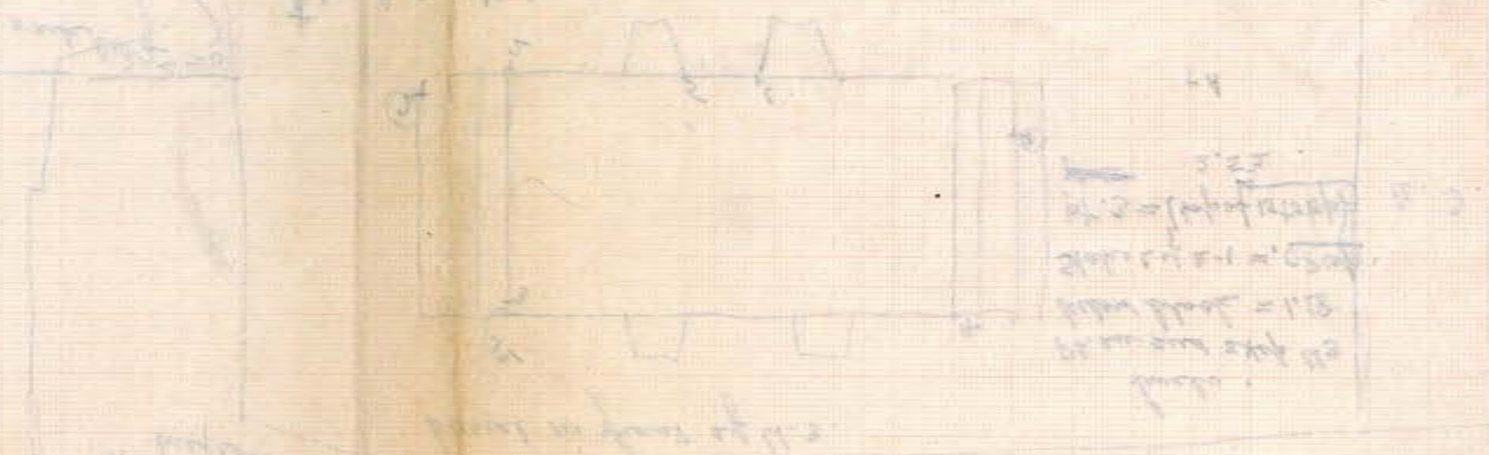


Levels.
Plinth and step U3 below block = 1.28
Stake 4 of R-1 = .82 up.
pt. 3 = (top of plinth step) = 3.52.

U. 3.

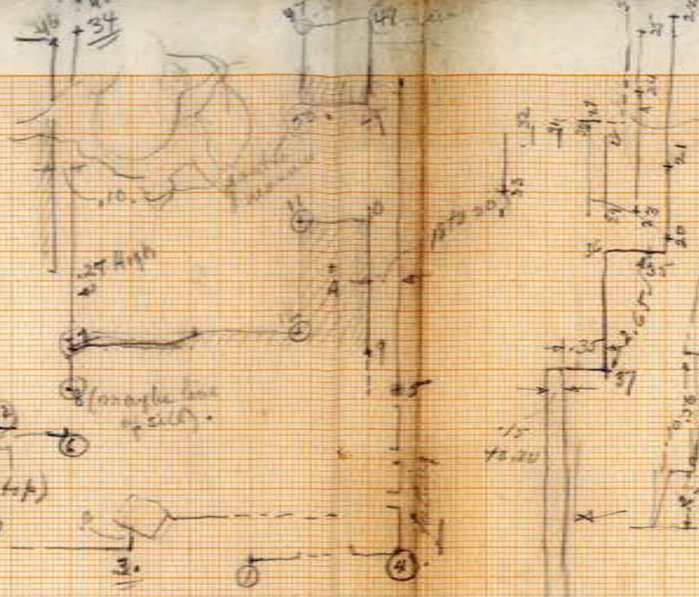
Run A on L_1 of R_1 - ends.
N bk. - 328° 22'
1. - 4.48 (A) ∠ - 347° 41'
2 - (about 348° 30') .57 (7) 2.41 (3)
3 - 2° 04' (2.38 (7)) 6.09 (1)
4 - 6.03 (7) 2.38 (1).

γ = 348° 05' 5.48 (1)



N.B. Locate B & C_1 from
[A_1 & F by measuring from
pt 34 located by 2's & meas.
from A.) Do not confuse A_1 with A.

A - pt. on Bldg. - A_1 = pt of survey connecting
wire pts. of R-1.



Tr. U. 3 May, 1937
Add .05 to tape.

N.E. - Perm. pt. at Corner R-1 = 5.60± from
Pt. L of R-1.

.15 A at L of R-1, 0 on T R-1; Read right
.09 Perm pt - 5.60± from L. ∠ 160°46'
may be sloping curb
3° Pt A of U.3 = 196° 07'
Reverse read. = 196° 39'
Measuring in line to L.

A_1 - 12.90± (B)
B_1 - 4.42 (C_2)
C_2 - 12.57 (D_1)
D_1 - 10.96 (E_1)
E_1 - 12.12 (L)

A at A_1 0 on L

F = 96° 01' 13.49 from A_1

A - 127°24'

B - 142°40'

C.

Z0 - 140° 16'.78 - A_1)
21 - 110° 25' (4.25 - L)
22 - 145° 33' (2.34 - L)
23 - 112° 20' (4.09 - A_1)
24 128° 38' (3.48 - A_1)
25 139° 05' (3.12 - A_1)
26 120° 25' (2.93 - A_1) Line slightly out.
28 124 35 - (4.05 - A_1) . 93½ (28).
24 - (11½ 48 (4.76 - A_1)

Mechick
Wrong.

$50\frac{1}{2}$ (.62-28)(.64-23) Obtained all points by set out and check by set out.

30 .44 (28) .22 (27)
31 .65 (28) 1.11 (29) (1.31 (23)
32 .82 (28) 1.25 (29)
33 - 129° 53' 5.64 (A_1)
34 - 156° 02'
27 - .36 (28) 1.02 (29)

129

C_1 - 6.42 (A) 3.67 or 3.69 (B)

A - 4.65 (E) · 5.40 (L)

B - 3.69 (E). L 143

1 - 2.76 (A) 4.33 (C).
2. 3.20 (A) 2.44 (C)
3) 3.49 (C)
4) 5.42 (C) 2.70 (A).
5) 1.47 (A) 5.59 (C)
6) 3.13 (A) 2.77 (B)
7) 2.37 (A) 2.66 (B).
8) 2.54 (A) 2.92 (B).
9) 1.01 (A) · 5.26 (C_1)
10 - .50 (A)
11 - .72 (A) 5.05 (C).

12 - 1.45 (C_1) 2.24 (B)
13 - 1.56 (C_1) 2.18 (B)
14 - 1.93 (C_1) 1.82 (B)
15 - 2.72 (C_1) 1.68 (B)
16 - 1.29 (C_1) 3.05 (B)
17 - 1.82 (C_1) . 95 (15) .75 (14)

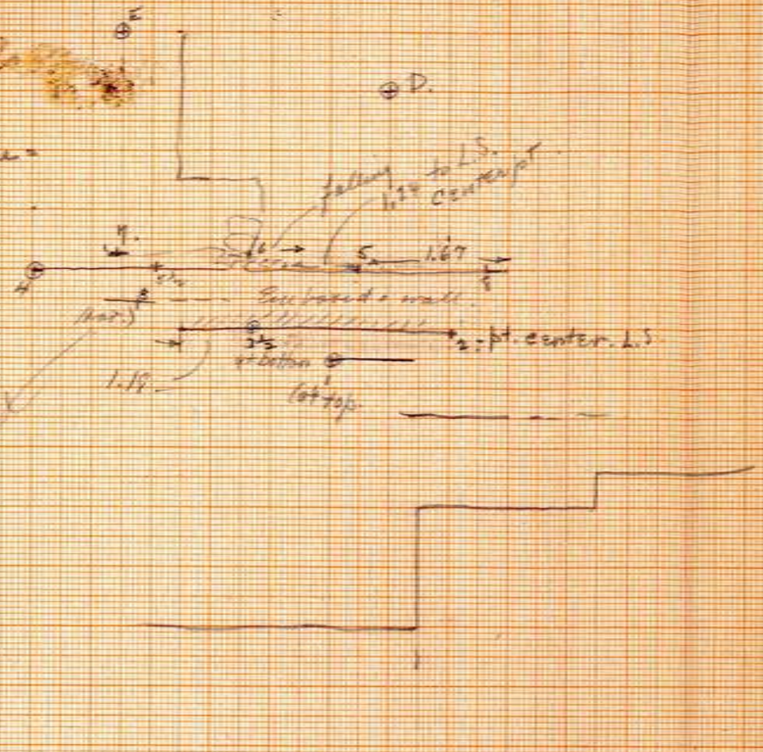
19 - 3.04 (C_1) 1.14 (10)
47 - 4.14 (A)
48 - 4.02 (A)

A on F, 0 on A read right
5 - 3.14° 05' A - 3.13° 24'
9 - 3.11° 35' B - C - 274° 33'
10 - 310° 30'
35 - 356° 18' 7.46 (F)
37 - 343° 43' 5.14 (F)
38 - 340° 46' 2.05 (F)
39 - 337° 04' 2.13½ (F)
34 - 315° 09' 5.05 (A)
36 - 2.02 (37) 1.75 (35)
40 - 281° 25' 4.15 (F).
41 - 269° 35' 6.35 (F)
42 - 266° 30' 7.98 (F)
43 -

4-3

R-9 and terrace in sect.

Stepping toward R-9 terrace
.34 per 1.40



A B C.

(Stake used for transit work R-9, -X)

K on B, 0 on F of R-9. -Read right

1. -119°45'.
2. 105°20'
3. 106°57'
4. 99°43'
5. 121°10'
5½ -111°08'
6.
7. 104°11'
8. 125°31'
D = 119°45'
E = 102°09'
(F of R-9 = .02')

K on E of R-1, 0 on B.
b = 20° 0'
E (Sun rise)
7 = 20°29'
4 = 20°46'
(1 (sunset 15°))

K on C of R-9 0 on F R-9
E = 64°53' L
2 = 50°42' L
2½ = 50°45' L.
1 = 49°36' L.

K on D of R-9 0 on A-C R-9)
Read Right

4 - 161°20'
5 165°21"
5½ 163°32'
6 162°55'
7 160°09'
8 165°48'
E = 150°
B = 210°02'

Last pt. on round corner of R-9 = 77°28'
5.93 (1.65) from D of R-9, (unit chain. 10)

PIEDRAS NEGRAS _____ 193__ STR. _____

OP. No. _____ USE ___M CAT. _____

SCALE _____ SEE P..OTO Nos. _____

REMARKS Misc notes in R-9 & R-10

Pyramid continues down below.

Section R-9.

3 — not all battered stone

t = .50

2 = .41

1 = .97

4 = 1.11

5 = 2.36.

Level per.

unmeasured.

.37.

Inner corner

R-9

Corner of Lowest Terrace

Slope of Lower Terrace R-9.

2 m.	.48
1/2 m	.36
1/2	.21

Side wall

.18

.8 to 1.0.

R-10.

Gallery

5.38

Corbelled

.51

Corbelled slightly from Stairs

.99 if more stone belongs to upper course.

1.15.

.55

7 = 2.99 (E) 4.65 (D)

6 = 4.15 (E) 2.91 (D)

4 = 3.37 (E) 1.01 (2) 2.43 (D)

1 = 1.87 (E) 3.47 (D)

2 = 2.43 (E) .99 (1) 3.41 (D)

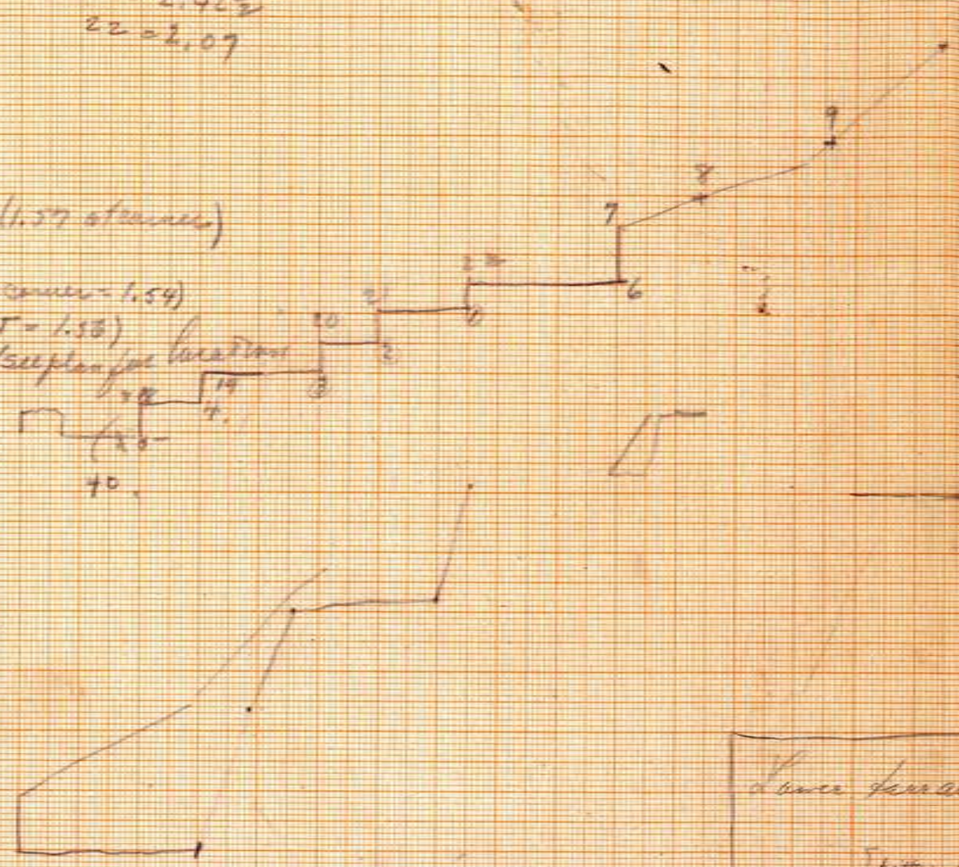
R-9 & R-10

0 = Stake B.

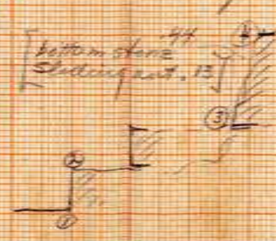
HI = Los.
1 = 2.48½
2 = 2.86
3 = 3.20½
4 = 3.86.

Stake E = 3.46
6 = 1.61 (1.57 at corner)
7 = 1.23.
6 (at entrance corner = 1.54)
6 at corner = 1.58)
7 = .67 (subplan for location)
8 =
11 = 3.65
12 = 3.48
13 = 3.31
14 = 2.25
15 = 3.43
16 =
17 = 2.74

18 = 3.82
19 = 3.34
20 = 2.91½
21 = 2.42½
22 = 2.07

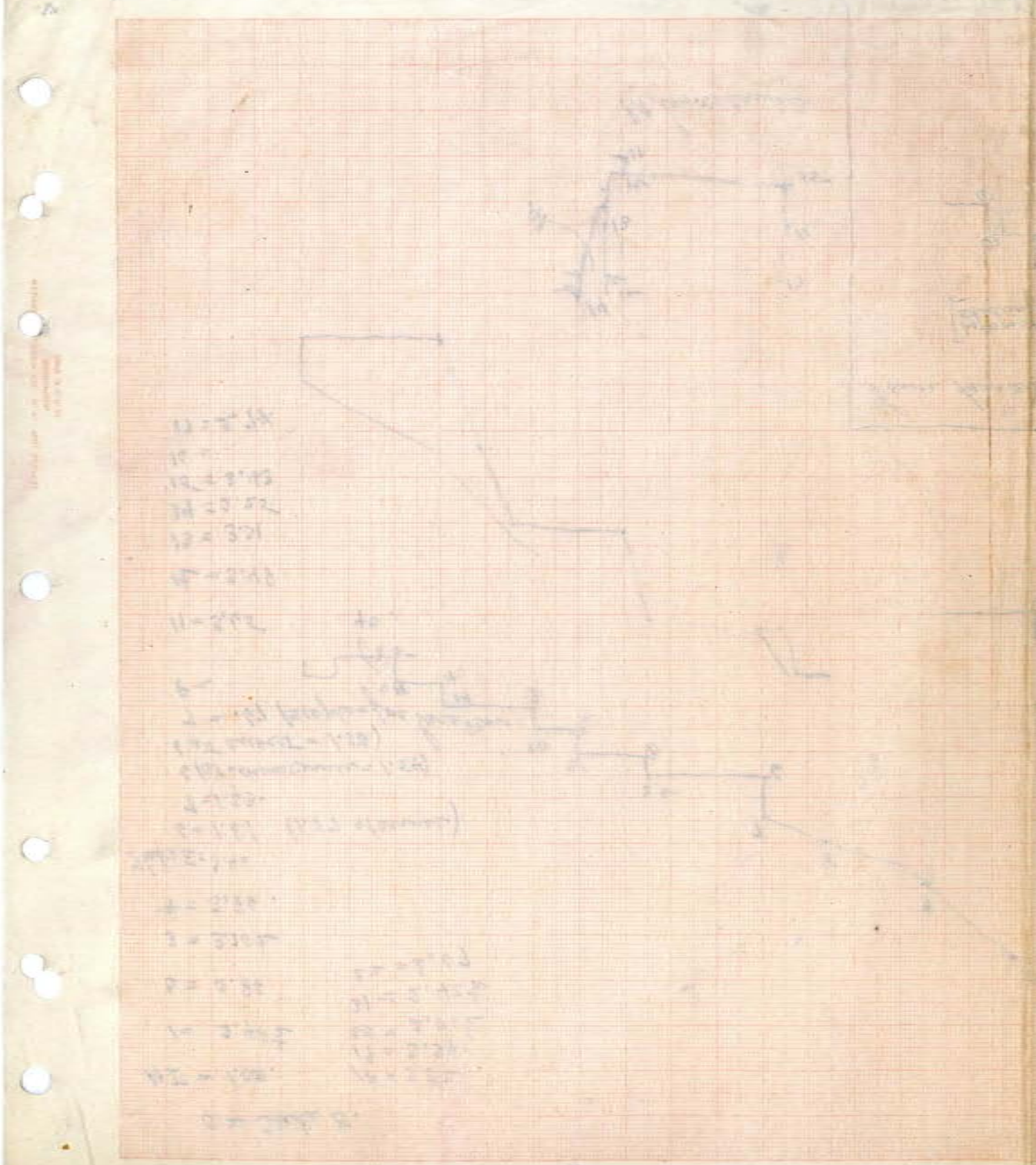


Lower terrace at left rear corner.



0 on Stake E
H.I = .70
1 — 1.60 (HI)
2 — 1.10
3 — .68.
.45 = pt. behind Stela 6 on rear side
1.44 = top of first step of 2-10 (2.5 - 0)
1.13 = bottom pt. of 1st step Stake 2-9.

Kon Stake B.
2 on Stake E (2nd level).
22 = 3.32.
H2 116° 11' L. (Subplan)
9 = 127° 14 L V = 2° 30' — R = 0.
10 156° 32' L, V = 10° 05' — R = 0.
B.3 of plan V = 13° 49' R = 1.40
P+6 of plan V = 5° 45' R = 1.50
P+ 30 highest pt on terrace VL = 24° 42' R = 1.10
P+ 31 Lowest pt. in plan VL = 29° R = 2.20
32 — VL = 33° R = 1.30
30 at bottom = 27° 16' R = 2.90
(.20 from SW Corner)



OP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS

Add .05

K on Y o on E

E

40 = 31°25'
41 = 42°26'
34 = 31°10'
35 = 38°09'
33 = 25°33'
28 = 17°15'
29 = 14°58'
36 = 13°24'
7 = 12°38'
10 = 28°19'
1 = 31°27'
5 = 75°30'
4 = 42°29'
3 =
14 =

12 = 1.79 (11)
13 = 1.25 (12)

I (on trunk)

G ⑤ on tree

2.54 (37) + 34

K 2 (c) - 33

3.25 E (a) + 37

Stake A

Stake B

Stake C

(2) T on E o on B.

Stake F = 79°57' R.

11 = 9°31' L.
12 = 8°59' L.
13 = 14°20' L.
14 = 24°38' L.
15 = 23°15' L. 15°38' = 16

Rel. from ⑤

R

19 = 59°57'
18 = 26°38'
19 = 31°05'
20 = 24°25'
21 = 30°12'
22 = 25°33'
23 = 20°46'
24 = 23°24'
25 = 18°34'

R

26 = 24°10'
27 = 19°07'
29 = 65°59'
30 = 52°15'
31 = 54°27'
32 = 64°41'
8 = 65°17'
33 = 66°32'

Stake E

3 = 17°15'
4 = 20°01'
5 = 25°37'
6 = 30°05'

Rel. from ⑤

42

30

31

17.

T on F o on E

X = 162°21' R.
28 = 129°31' R
32 = 111°58' R
8 = 116°20' R
33 = 120°57' R
34 = 128°40' R
35 = 124°33' R

10 = 104°44'
9 = 106°54'

7 = 87°45' R
30 = 50°46'
31 = 46°30'
17 = 34°36'
18 = 26°35'
21 = 20°50'
20 = 27°40'
24 = 36°50'
22 = 35°38'
26 = 42°18'
27 = 39°38'

36 = 96°

11 = 28°03'
12 = 31°42'
13 = 30°21'
16 = 30°25'
14 = 28°46'
37 = 22°38'
32 = 57°23'
39 = 56°37'

3 = 63°40'
4 = 66°29'
5 = 72°32'
6 = 79°30'
41 = 145°02'
40 = 147°30'

F.

Add .05

42 = 2.71 (E)
15 = 9.76 (E)
Stake F = 22.05 (allow for sag)
G - 5.15 (H) 3.99 (I)
K - 2.43 (J)
X = 15.01 (F)

X o on F. Read R. - L. Spt = 15°53'
L.S.pt = 195°38'

(1) T on B, o on D.

Stake E = 93°29' R.
Stake F = 84°05' R.
I = 61°57' L.
H = 63°40' L.
K-dk stone 55°12' L.
G = 35°19' L.

(2) T on Stake D o on A-C.

F = 78°19' L. X (large stone in front of R -) = 149°37' L.
G = 35°09' R.
H = 51°52' R.
I = 46°01' R.
E = 40°02' R.
K - 33° R.
5 - 42°25' R.
F = 52°55' R.
7 - 98°12' L.
8 = 124°46' L.
10 - 121°14' L.
9 - 126°46' L.

Stake D

9?
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KEUFFEL & ESSER CO., N. Y. NO. 359-141 Millimeter MADE IN U.S.A.

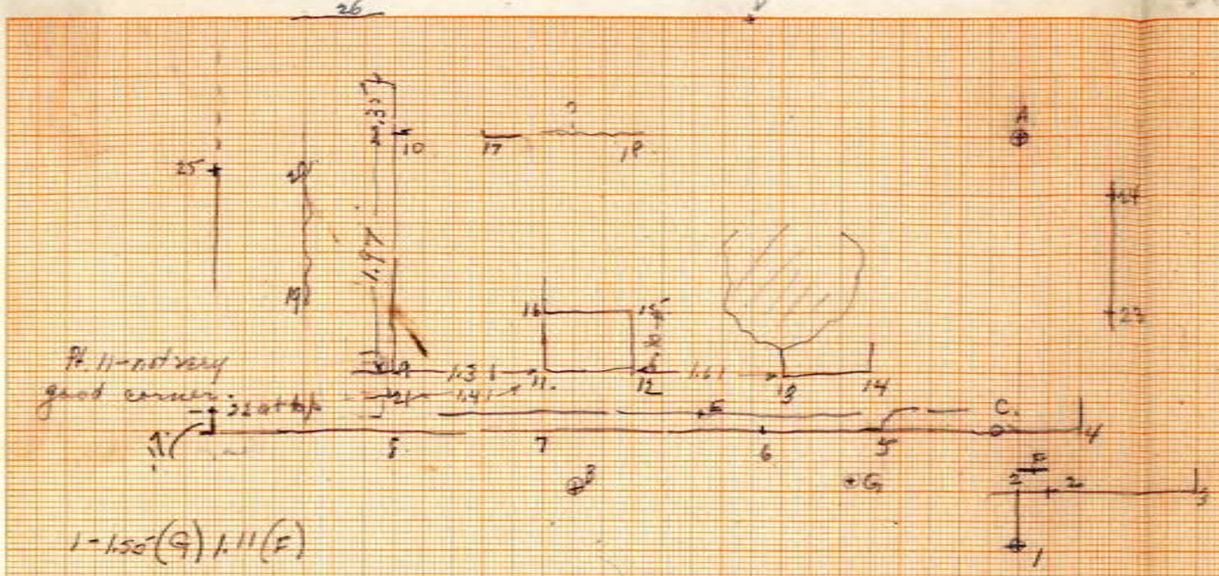
PIEDRAS NEGRAS _____ 193__ STR. _____

OP. No. _____ SUM CAT. B-9

SCALE _____ PHOTO Nos. _____

REMARKS _____

26



1 - 1.56 (G) 1.11 (F)

2 - 1.74 (G) .62 (E)

3 - 4.20 ± (G), 2.32 (4) 2.47 (1)

4 - 1.44 (E) 3.93 (A)

5 - .85 ± (C) 3.44 (4)

6 -

7 - 3.35 (C) 1.02 (B)

8 - ± .74 (C) 1.86 (1)

9 - 6.59 (A) 4.38 (D) 2.76 (E).

10 - 5.95 (A)

11 - 3.87 (D).

12 - 3.69 (D)

13 - 3.08 (A) 2.72 (C)

14 - 3.46 (A) 1.95 (C)

15 -

16 -

17 - 5.43 (A) 2.43 (B)

18 - 4.91 (A)

19 -

20 -

21 (.17 from A)

22 - 4.80 (C) 6.35 (D)

Slope of plank = 25 / 52

23 - 2.10 (C) 2.64 (A)

24 - 2.75 (C) 2.44 (A).

25 - 3.00 (D) 2.03 (22)

26 - 3.42 (D) 4.14 (22)
(from 14 ft. on plank)

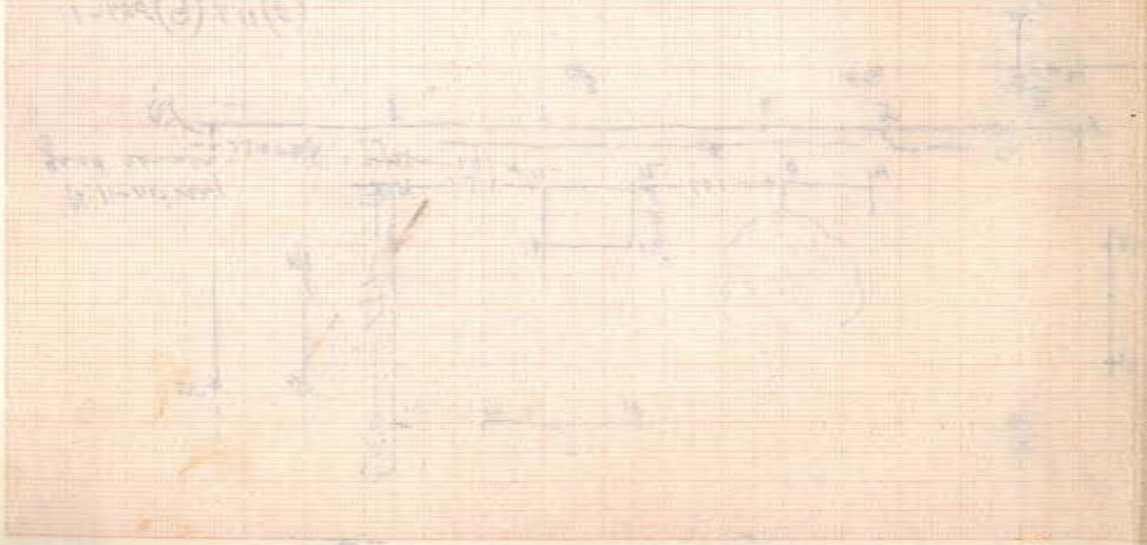
D = 5.00 (A) 3.21 (B).

E = 4.20 (C) 4.37 (A) 3.41 (G) 1.49 (E).

F = 1.41 (C) 2.41 (E)

G = 2.59 (B) 2.85 (E).

KEUFFEL & ESSER CO., N. Y. No. 358-141
Millimeter,
MADE IN U.S.A.

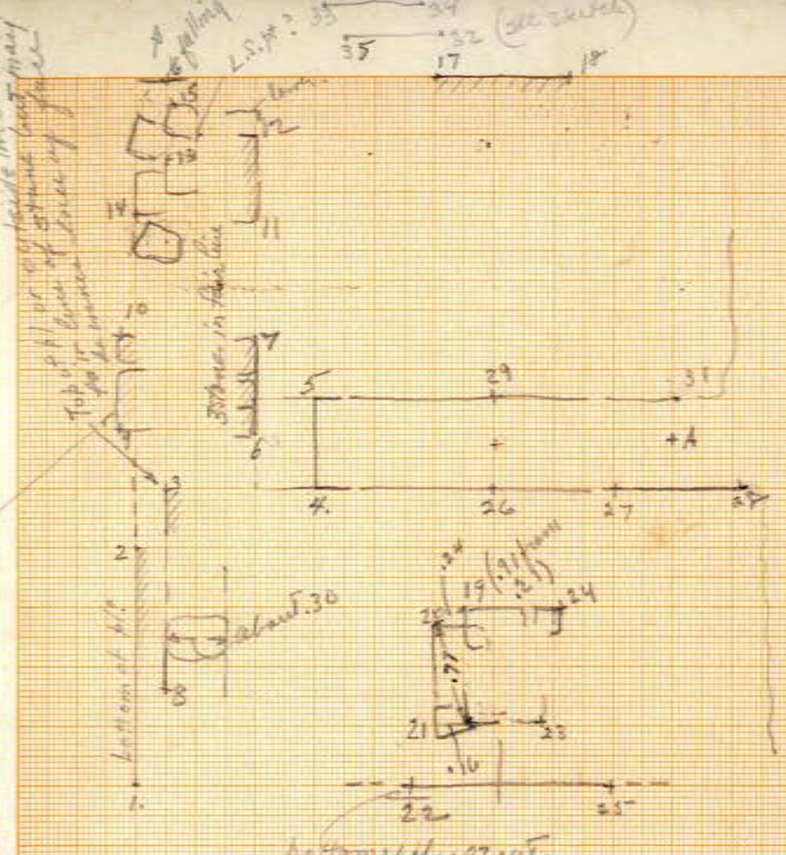


PIEDRAS NEGRAS June 6 193 7 STR. E-7

CP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Add .05 to slope measurements



∡ at A on Stake A of R-9 road.

B = 177° 49' 62° 20m 30" N.W.
C = 147° 50'

Dist from A

1	294° 10'	6.29	10	321° 05'	4.20
2	334° 15'	5.87	11	343° 0'	4.96
3	310° 55'	5.95	12	35 20 05'	5.43
4	306° 45'	4.26.	13	345° 35'	6.00
5	320° 15'	7.19.	14	340° 30'	6.85
6	314° 05'	4.89	15	340° 10'	6.25
7	327° 20'	4.41	16	350° 30'	5.92
8	297° 40'	5.47	17	15° 50'	3.73
9	316° 50'	6.22	18	32° 50'	3.20

A − B = 7.67

B − C = 12.92

Levels.

as pt P

C = 2.07±

pt 4 1.90

5 1.97

11

13 2.08.

19 2.61

28 − 1.89

19 (top of pl) − 1.93

pl = 1.93

22 & 25

Bottom of pl. 1.27 ext.

Depth of plinth SG. side top after use = 2.69.

19	2[illegible]° 32'	27	166° 33' 2.66
20	258° 48' 3.98	29	318° 35' 1.95
21	26[illegible]° 41' 4.60	30	145° 2[illegible]' 2.49
22	25[illegible]° 0' 4.69	31	(last mark) .80
23	24[illegible]° 01' 4.15	32	= 4.05 (17) 2.49 (14)
24	23[illegible]° 35' 3.17	35	= 5.10 (17) 2.80 (14)
25	24[illegible]° 18' 4.33		
26	25[illegible]° 45' 1.83		
4	[illegible]° 05' 1.2[illegible]		

∡ at A on C.

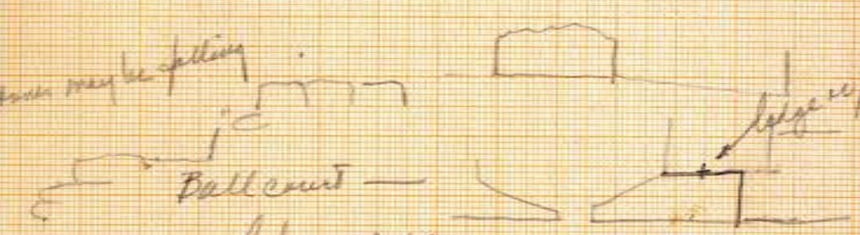
Pavement pt corner of ball court

D = 53° 26'

E = 74° 37'

Pt entrance = 19° 05'

Section



R-7

RECORDS NEGRAS _____ 193__ STR. _____

CO. No. _____ MUSEUM CAT. _____

SCALE _____ SEE PHOTO Nos _____

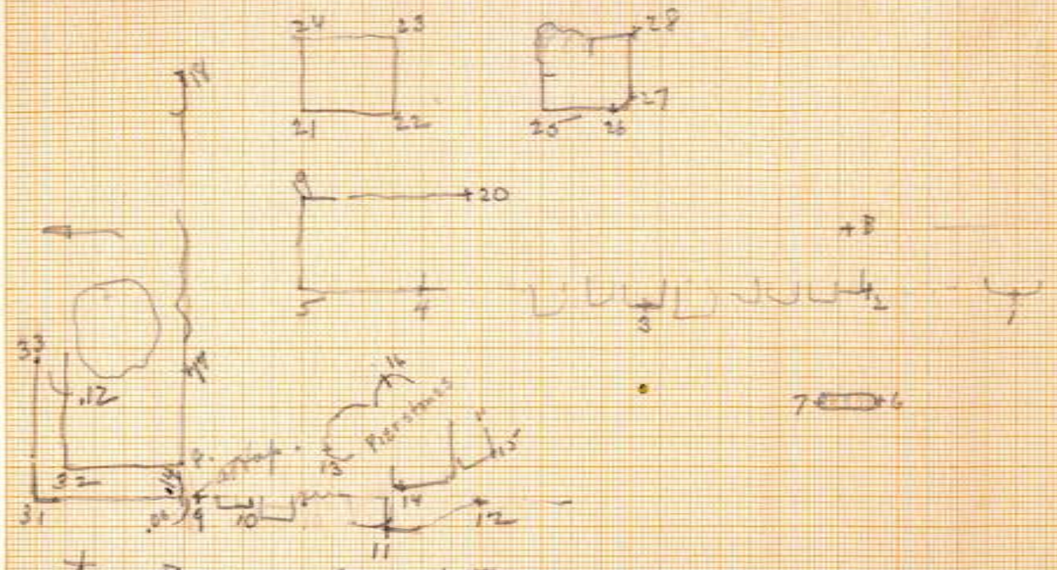
REMARKS _____

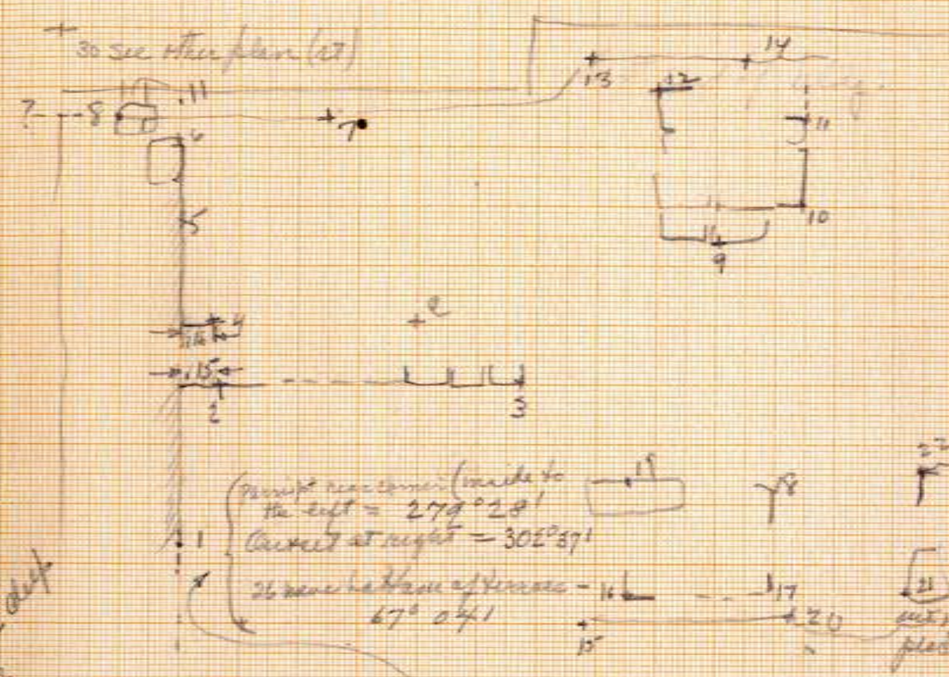
PIEDRAS NEGRAS June 6 1937 STR. P-7

OP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS Corner of Wall of Room Adds .65 to tape





Loc.

B 33 - 1.89 Square cut upper face of plat.

B 31 - 1.96

B 4 - 1.81

B 19.

C 24

B 25 1.82

B 28 1.94

B 22 1.80

B 23 1.89

C 13 - 1.69

C 7-8 - 1.72

C 5 1.65

C 15-20 - 1.95

C 24 - 1.94

Low plat. on south side of court. Top of plat. 3.17 above top of plat. 3.17

Loc. at C and B read at.

30 = 121° 25' 1.21 (overhang .10)

1 - 185° 40' 2.32

2 - 197° 32' 1.21 (overhang .10)

4 - 337° 25' 1.88

5 - 346° 01' 3.00

6 - 224° 25' 1.60

7 - 231° 53' 1.46

8 -

9 - 319° 15' 5.76

10 - 313° 45' 5.32 (overhang .05?)

11 - 297° 30' 4.39

12 - 289° 12' 3.78

13 - 311° 12' 4.24

14 301° 59' 4.34

32 - 322° 25' 6.54

31 - 323° 12' 6.71

33 - 320° 15' 6.27

15 - 294° 25' 3.59

16 - 317° 10' 3.50

17 - 329° 20' 5.05

18 - 43° 18' 4.61

19 - 2° 17' 2.97

20 12° 37' 1.50

21 - 53° 55' 3.63

22 - 45° 04' 3.03

23 - 53° 48' 3.87

24 - 44° 02' 4.32

25 - 20° 18' 2.32

Loc. at C and A read at.

Dist. c.

1 - 132° 45' 4.38

2 - 152° 02' 3.23

3 - 95° 35' 1.41 (falling)

4 - 165° 37' 2.91

5 - 190° 40' 5.23

6 - 214° 15' 3.77

7 - 223° 27' 3.01

8 - 210° 29' 4.57

9 - 329° 19' 2.14

10 - 327° 25' 2.32

11 - 317° 33' 2.96

12 - 301° 57' 3.62

13 - 286° 12.44

14 - 306° 17' 3.05

15 - 323° 05' 4.71

16 - 68° 22' 4.58

17 - 57° 30' 4.86

18 - 52° 13' 4.14

19 - 64° 01' 3.92

20 - 39° 46' 5.04

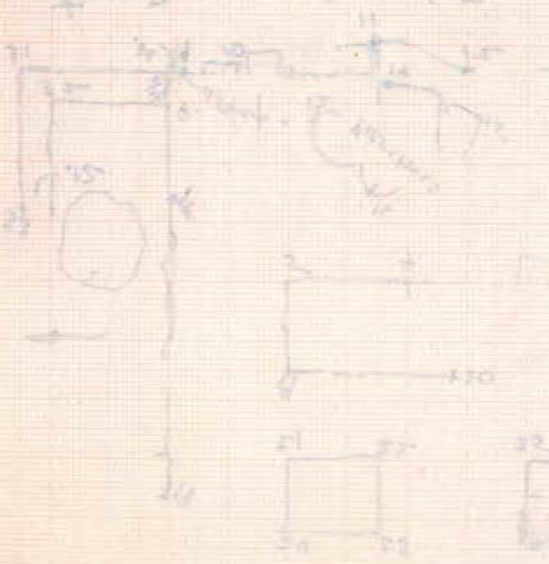
21 - 44° 03' 6.26

22 - 34° 20' 5.61

23 - 37° 14' 6.79

24 - 36° 39' 7.15

25 - 30° 25' 6.63



A – B = B.S. (adjustment for sag)

K at A, 0 on B, read right

K = 176° 53'

1 – 88° 21'

2 – 73° 20'

3 – 70° 05'

4 – 90° 51'

5 – [illegible]

6 – 90° 15'

7 – 75° 48'

8 – 82° 37'

9 – 74° 13'

10 – 77° 35'

11 –

12 – [illegible]

13 – 91° 24'

23 – 96° 31'

14 – 77° 51'

15 – 78° 53'

11 – 77° 38'

19 – 76° 29'

18 – 74° 25'

19 – 76° 44'

21 – 73° 20'

20 –

Pt. B of Bldg. plan = 19° 35'

Pt. 1 Bldg. plan = 80° 38'

1 – 1.75 (10)

2 – 1.80 (1) 1.23 (10.

5 – 2.46 (8) .27 (10) 1.25 (1)

4 – 2.12 (5) 1.90 (10) .43 (1)

6 – 1.76 (10) .63 (1).

8 – .83 (1)

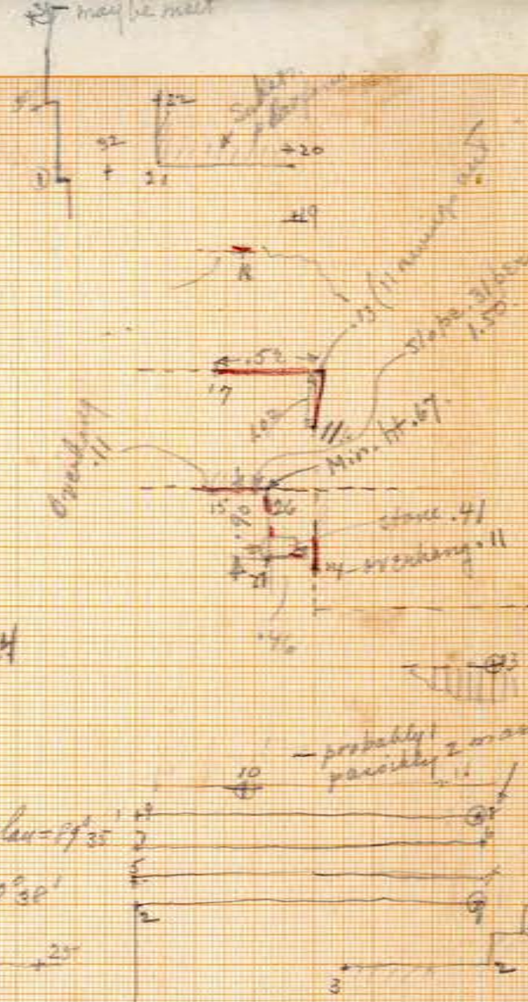
7 – .69 (2) 2.17 (6)

9 – .92 (2) .87 (10)

pt 22 (on plan square wall) – .34 (15) 1.68 (14)

27 – 1.37 (6) [illegible] .91 (26.

Pt. 16 – 2.10 (14)



Levels 0 = pt. 13, top of terrace (probably 1 more course).

H I = 1.60

3 – 3.91

2 – 3.76

8 – 3.02

10 – 2.90

13 – 1.80

23 – .49.

14 (mean floor of terrace = 1.35)

16 – 1.38 set on T.P.

24 – 1.61 (more slightly higher)

35 – 2.31

Level

T.P. on pt. 15 = 3.82

17 – 1.51 bottom of terrace

T.P. 2 – .52

T.P.2 = 3.41

18 (bottom of terrace) = .93.

30 – = 2.14 (+ 1.04 to bottom of step)

T.P.3 = 0

T.P.3 = 2.53

Ht. top of sill = .42

pt. 21 – .210

PHOTOGRAMMETRIC NEGRAS ____ August 193 7 STR. R-5

MUSEUM CAT. _____

SEE PHOTO Nos. _____

REMARKS Suitable place All. as K type

K on B, 0 on A.

3 – 3.39° 04'

1 – 332° 33'

8 – 329° 43'

10 – 326° 33'

13 – 324° 43'

23 – 318° 10'

14 – 308° 17'

15 – 301° 30'

11 – 300° 38'

17 – 298° 15

19 – 291° 39'

21 – 285° 14'

Pt. B – Bldg. – 296° 55'

= Pt. 1 – Bldg. – 289° 52'

31 – 275° 25'

36 – 272°

32 284° 30 (6.61 from nearest outside corner of substructure wall)

70° 30' 1/2
100 30
354 40
246 40
69 1
91 3
153 40
193
27
359 60
209 52
60
360 60
14
54 95
73 20
46 65

KRUPPEL PAPER CO., N. Y. NO. 359-141 Millimeters

R-5

STR ..... 19S ..... TORAS

MUSEUM CAT. .....

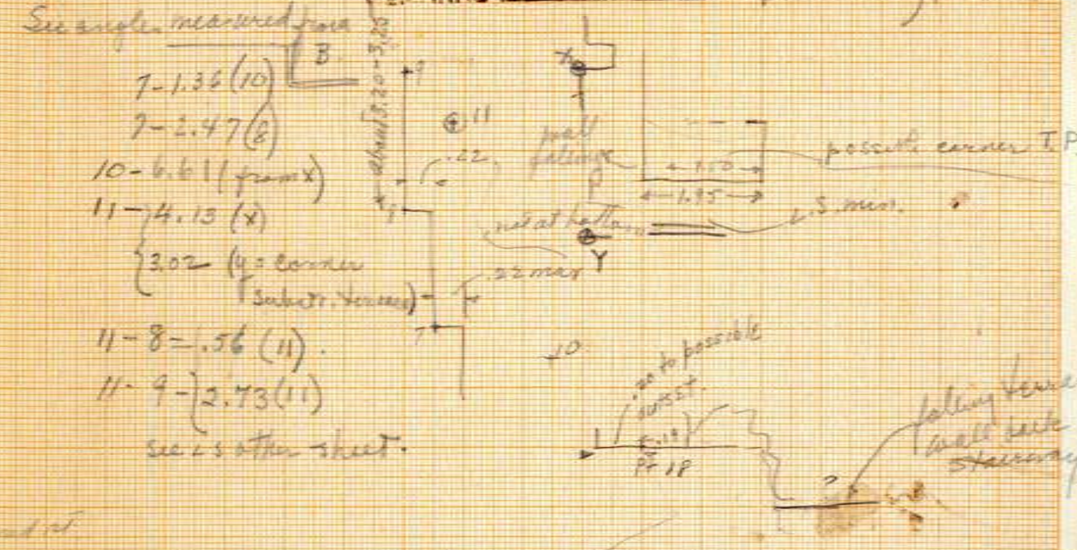
SEE PHOTO Nos .....

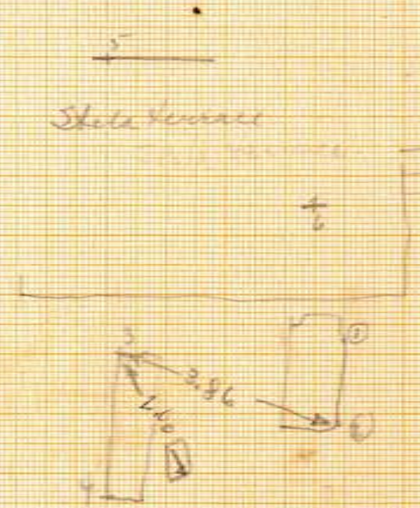
ARKS .....

No. MUSEUM CAT.

E SEE PHOTO Nos

REMARKS Side terrace wall & details)





Terrace B area readings

2 – 340° 30'

1 – 334° 25' 2.77 (3)

3 – 333° 0' 7.02 (B).

4 – 351° 10' 5.60 (B)

5 – 313° 45' (= pt. 24 of plan & Section)

6 – 349° 40' (= pt. 25 of plan & Section)

7

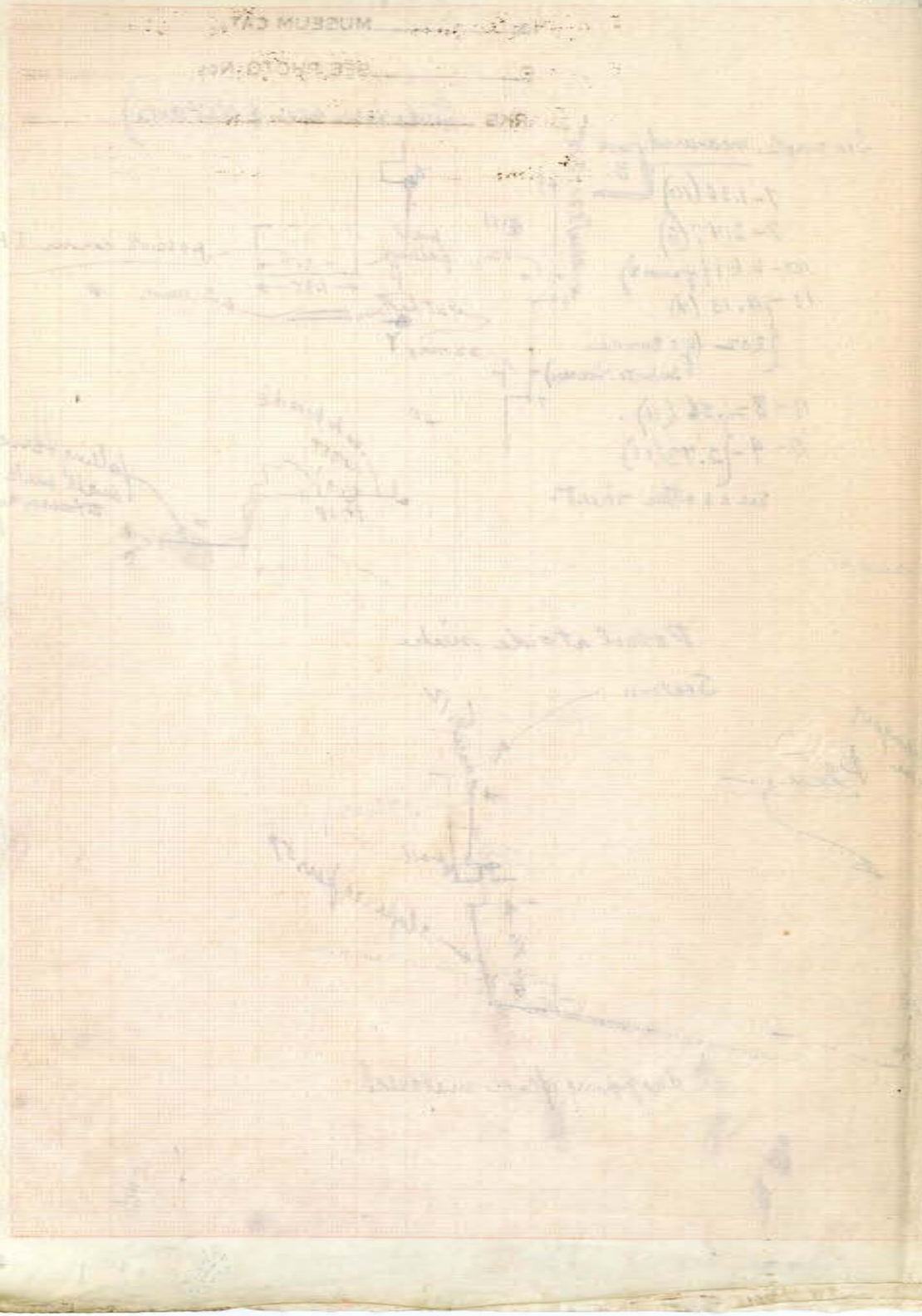
Terrace 5 and Terrace 6

5 – 55° 05'

6 – 61° 43'

Detail at side niche

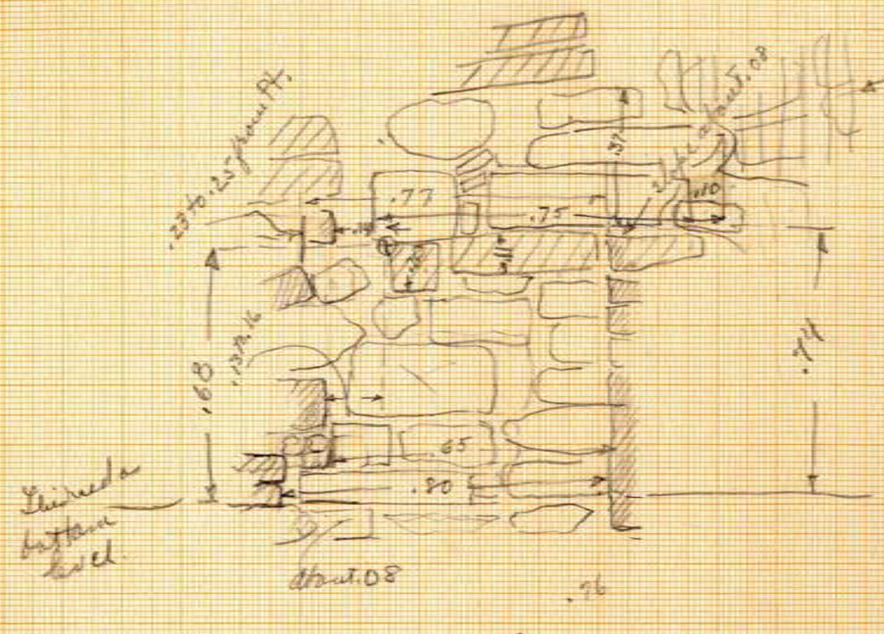
R-5



R-5

Right Side

Sketch to Elevation

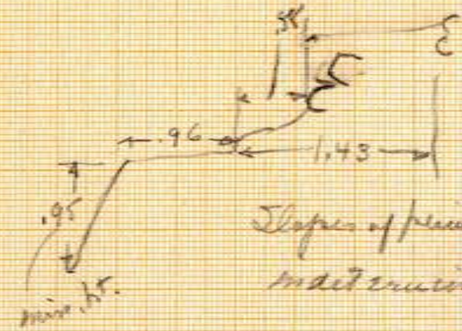


Section shows make

Falling 2 wall ?
16 back from guard post

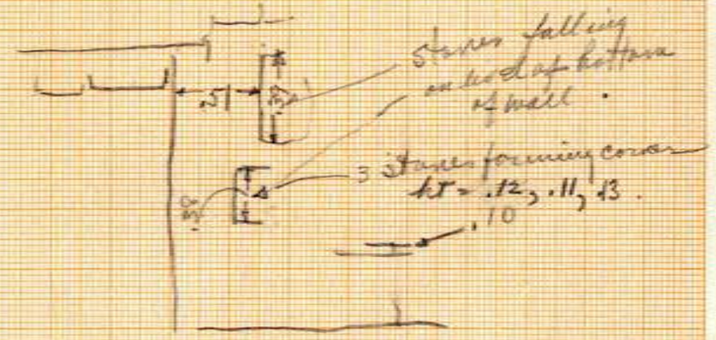
.07 in 96 (-.02)

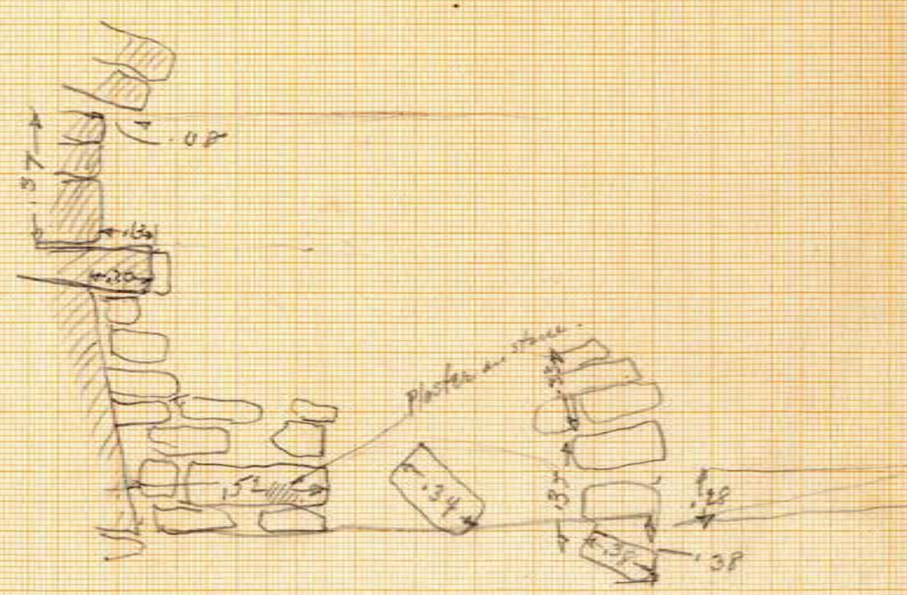
.97 = absolutely min. ht. of bldg. terrace at NE front.

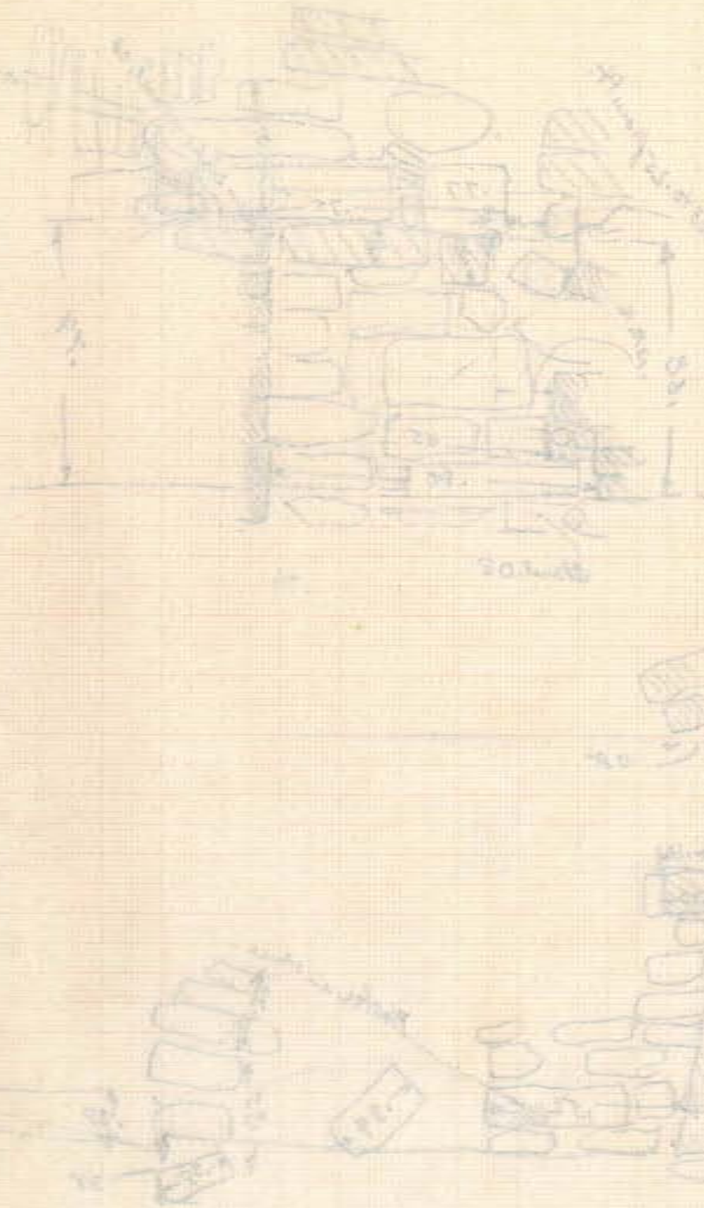


Slopes of porch & bldg. terrace in det. section etc. walls hedging

Plans





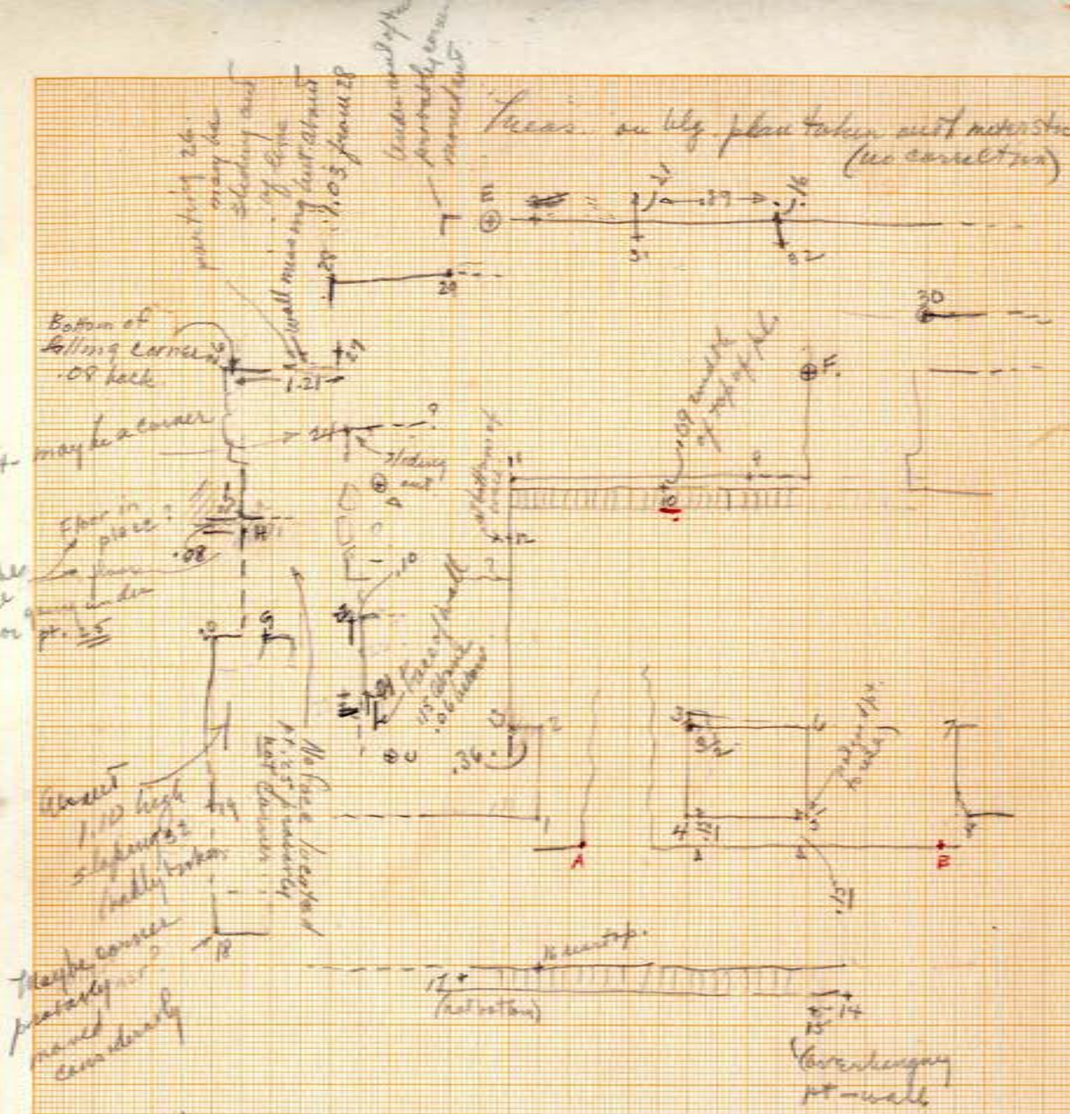


NEGRAS May 21st 193 7 STR. R-5

MUSEUM CAT.

SEE PHOTO Nos.

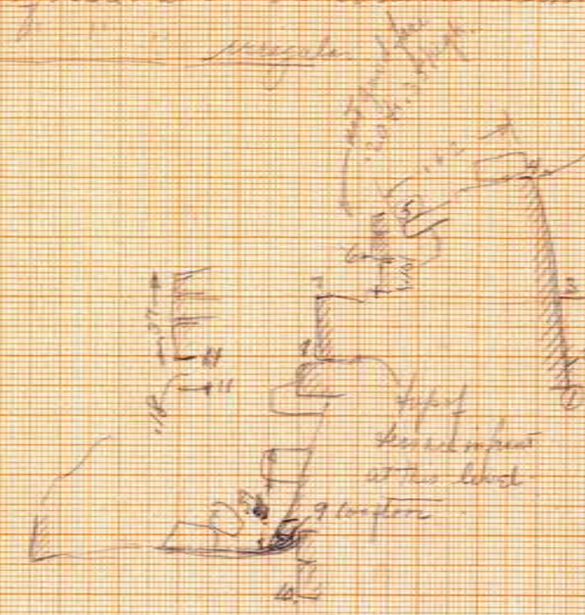
...S Plan of Bldg - Add .05 to all
meas. unless underlined.


Trees on lily plan taken with meterstick (no correction)
Bottom of falling corner .08 back
may be corner
Floor in place?
may be double floor
Abutment 1.10 high stepped & fully broken
Maybe corner partially gone & moved considerably
wall meaning left abutment
1.03 from SP
Double wall
Top of wall
Floor of wall
Top of wall
Floor of wall
Top of wall
Floor of

MUSEUM DATA

SEE PHOTO Nos.

Extension "foot-bin" 90 feet parallel.
Bottom of side wall: assumed as about 20 below top of
[illegible]



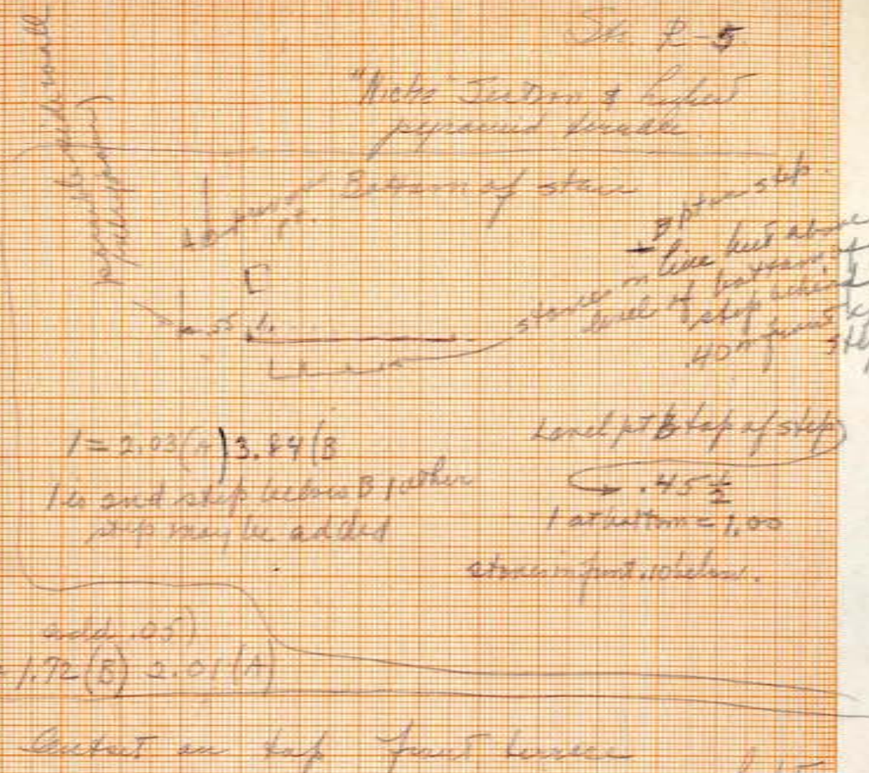
0 = 1.34
1 — ~~1.54~~ 1.58
2 — ~~1.58~~ 1.51
3 — 1.24
4 — .70
5 — .89
6 — 1.43
7 — 1.35
8 — 1.75
9 — 2.54
10 — 2.79
11 — 1.80.

Stairway "Foot-bin" 90 feet parallel.
Bottom of side wall: assumed as about 20 below top of
[illegible]

0 = 1.34
1 — ~~1.54~~ 1.58
2 — ~~1.58~~ 1.51
3 — 1.24
4 — .70
5 — .89
6 — 1.43
7 — 1.35
8 — 1.75
9 — 2.54
10 — 2.79
11 — 1.80.

Sketch No. L-5

"Hoke" Section of Light
pyramid truck



I = 2.03(a) 3.84(b)
1a end step below B pother
step maybe added

add .05
I = 1.72(5) 2.01(4)

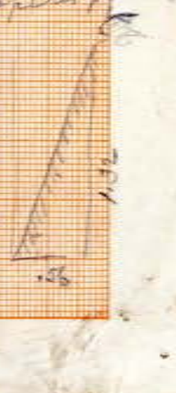
Bucket on top front corner

Platform

Platform

Elevator well.

Section of stair



Sketch No. L-5

"Hoke" Section of Light
pyramid truck

I = 2.03(a) 3.84(b)
1a end step below B pother
step maybe added

add .05
I = 1.72(5) 2.01(4)

Bucket on top front corner

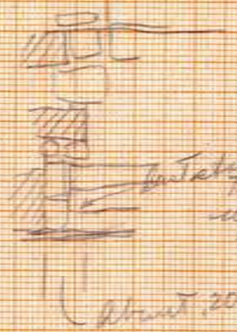
Platform

Platform

Elevator well.

Section of stair

Elevator



add .05

H = 1.51 (1) 1.20 (2) [illegible]

S = .53 (2) 1.40 (1) 1.20 (4) [illegible]

[illegible] (2) 2.23 (8) [illegible]

2.5 H₂ ½ (A) 6.15 (8)

I = 3.8 Same curve of
bldg. portion
1.49 ½ (2)

Sketch No. L-5

"Hoke" Section of Light
pyramid truck

I = 2.03(a) 3.84(b)
1a end step below B pother
step maybe added

add .05
I = 1.72(5) 2.01(4)

Bucket on top front corner

Platform

Platform

Elevator well.

Section of stair

Incidental section

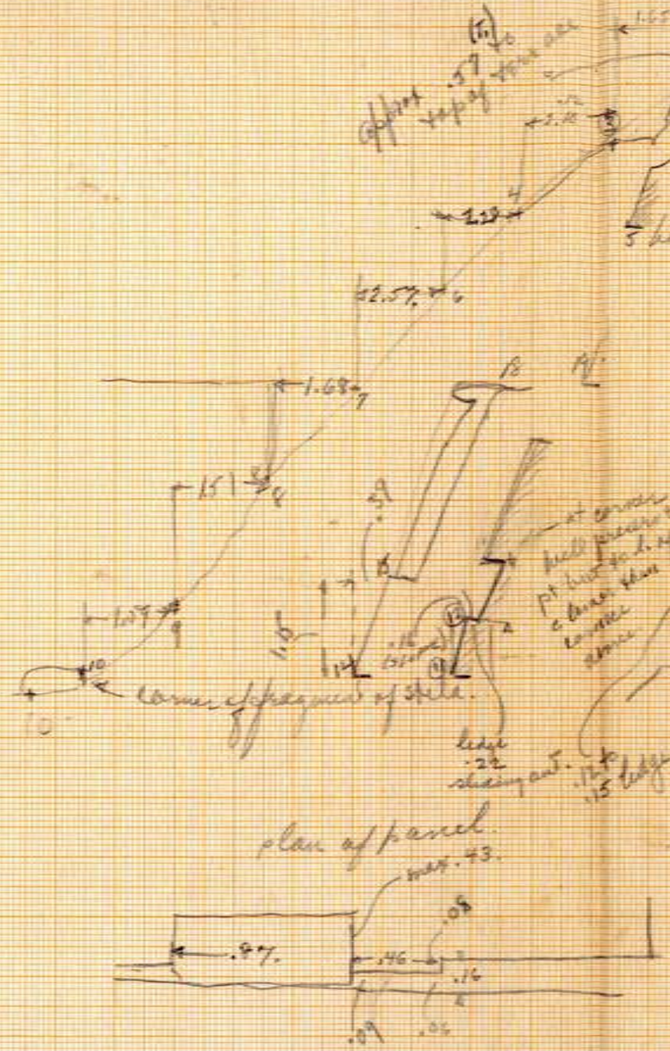
Debris section

PIEDRAS NEGRAS May 2 1937 STR. R-4

MUSEUM CAT.

SEE PHOTO Nos.

REMARKS Section 8 m. ea. of panel



1 = 1.14

2 = 1.36

3 = 2.91

3 - .15

4 = 2.07

5 = 2.49

6 = 3.79

6 - .47

7 = 2.61

8 = 3.99

8 - .20

9 - 1.55

10 - 2.16

10 = .64

11 = 2.05

12 = 1.25

13 = 1.19

14 = 1.80

15 - .75 - L.S. pt. .10 above this fill up at this pt. to .20 above 15

16 - .03 up

17 Concave bed above pt 13 .05 up.

Pt. 14 = 2.02

Pt. 18 = 1.05

19 - .95

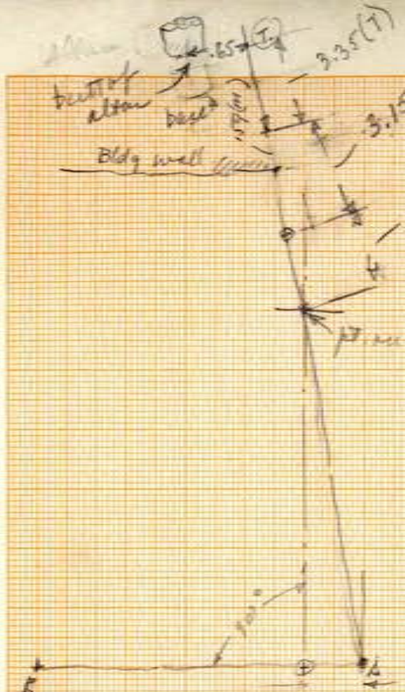
R-4

PIEDRAS NEGRAS June 5 1937 STR.

NO. MUSEUM CAT. No. P-4.

LOT SEE PHOTO Nos.

REMARKS Check up lines & location of stairs



at A corner of Stairway

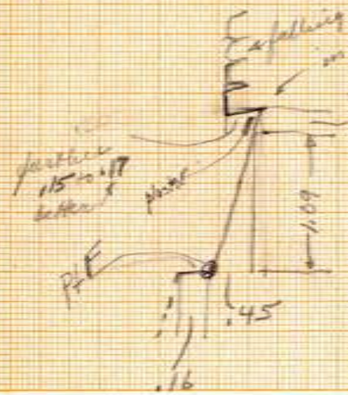
at B other corner of Stairway

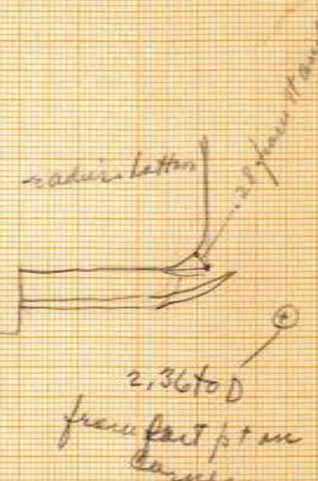
Bearing = 162° S. E.

Sight on Pt C = lowest pt of terrace (located)

Read. right Pt C 10'

Rt. Side R-4 Lowest terrace (on inner corner. Corner not seen)





Level on corner stairway

D on top pt of "plumb" inside panel

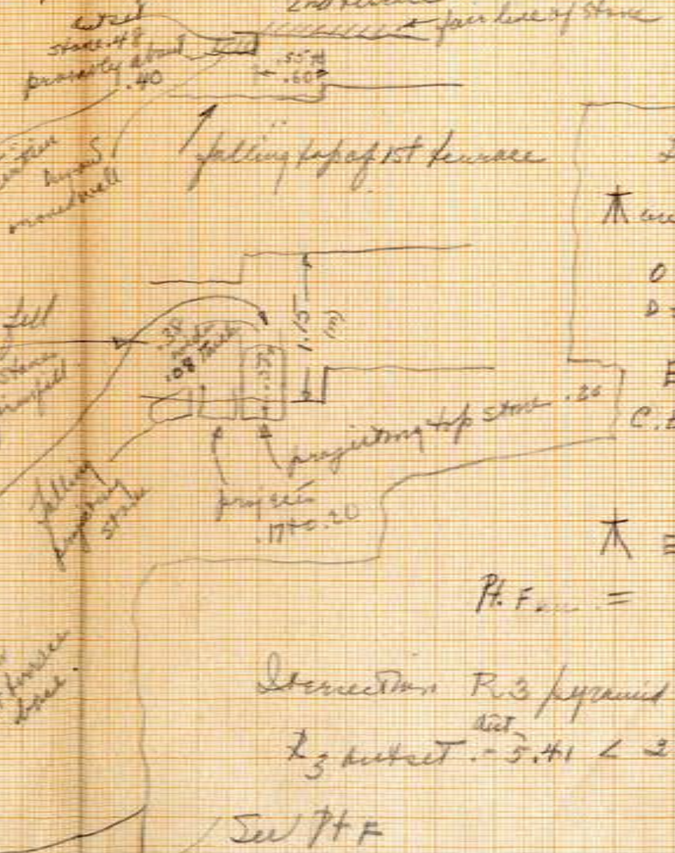
AL

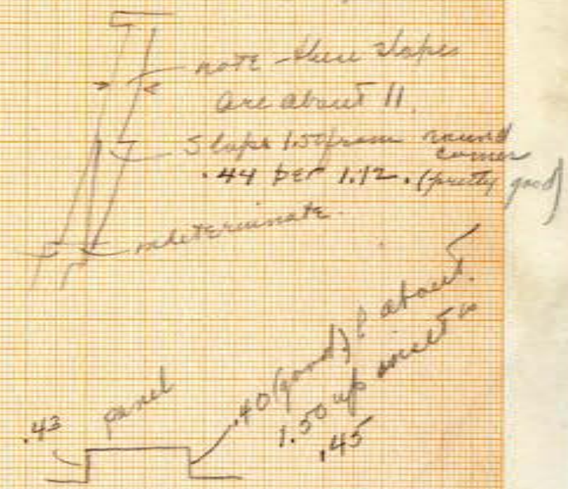
H.I = 90

A (corner stairway) = 1.65'

B " " 1.45

Terrace width =





Location Rt. side pyramid.

at Stake upp. left corner stairway. C.

D on furthest Stake of R-5

D = 212° 5' E

E = 85° 45' (right)

C.E = 15.21 (T) along stairway.

+ 11.65 (T)

at E, D on C,

Pt F = 297° 04' dist from E = 9.20'

Intersection R-3 pyramid & front Stairway near bottom = 233° 50'

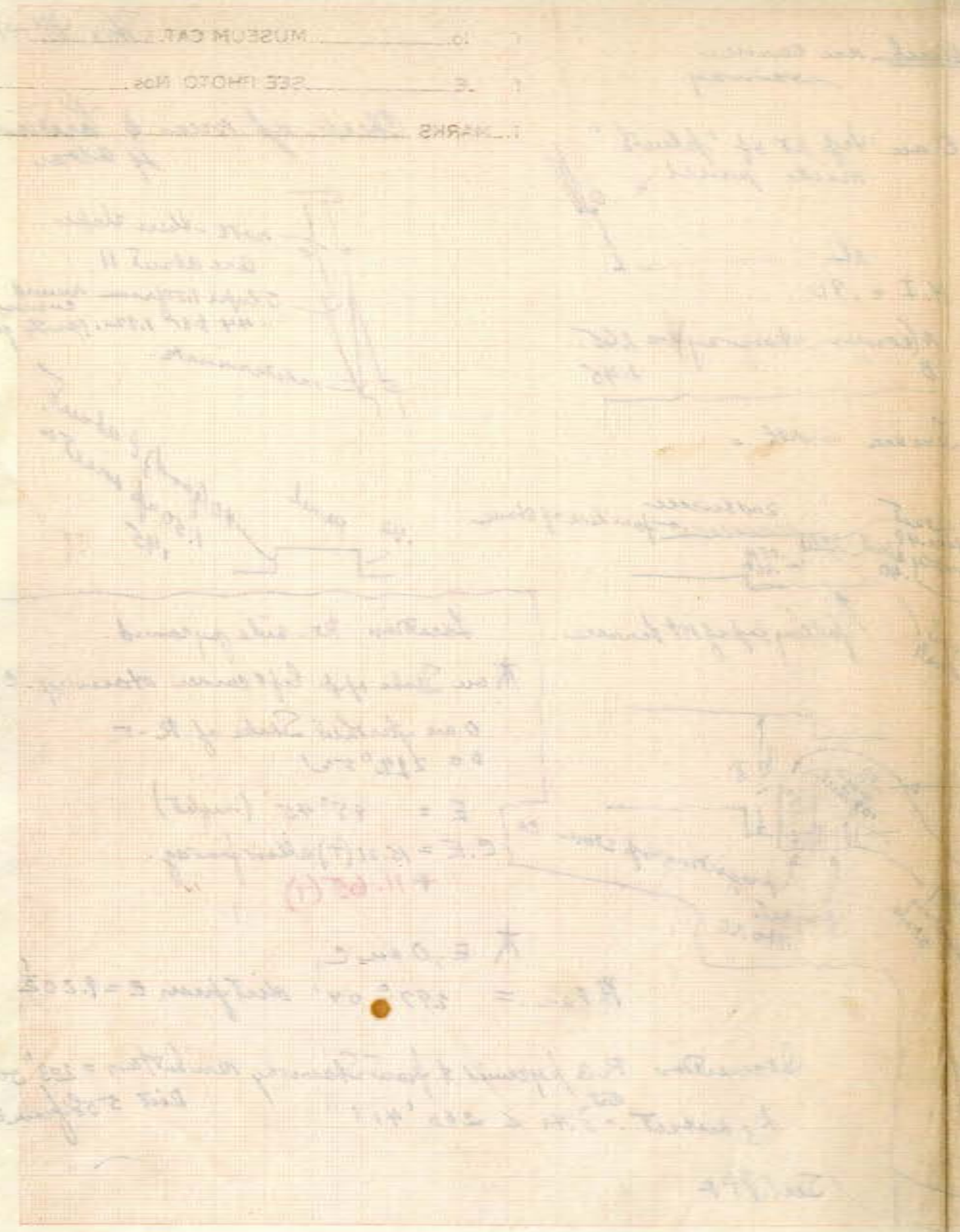
dist 5.52 from E

dist

R-3 nearest = 3.41 ∠ 260° 41'

See Pt F

R-4



Station A of R-5 (first set stake)

Rad n.	dist	
2 -	132° 41'	4.51 (c)
3 -	116° 57'	4.46 (c)
4 -	166° 22'	4.60 (x)
5 -	164° 0'	5.06 (x)
6 -	169° 37'	5.02 (x)
7 -	172° 28'	4.99 (x)
8 -	182° 43'	9.68 (c) allow plenty for sag
9 -	196° 55'	5.60 (x) - face
10 -	201° 10'	11.00 (c) allow sag
		11.21 (c) allow sag.
A =	175° 30'	4.09 (c) +13
11 -		11.34 (c) allow sag ∠ = 200° 11' 3"

1 = 1.30 (2) 1.26 (3).

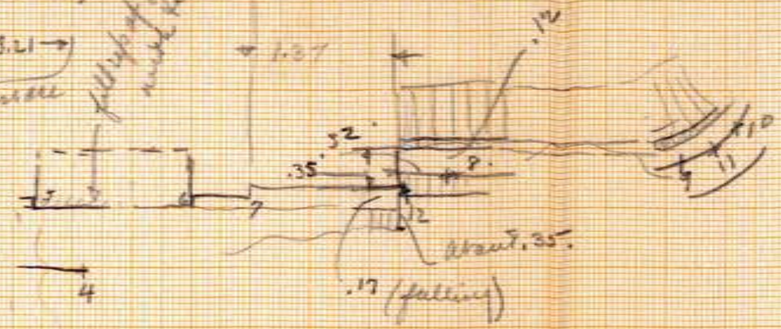
Checks.

9 - 8 3.01

9 - 10 .98

8 - 12 - .38

7 - 12 - 1.37 (12 may be moving out to side .01 to .02)



Station A of R-5, O B of R-5 and R. D = 8° 38'

Dist 12.51 + 8.22 + 6.00

add .05 to each.

Left side of Sea Wall Stairway 6.40 (c) . 4.55 (2)

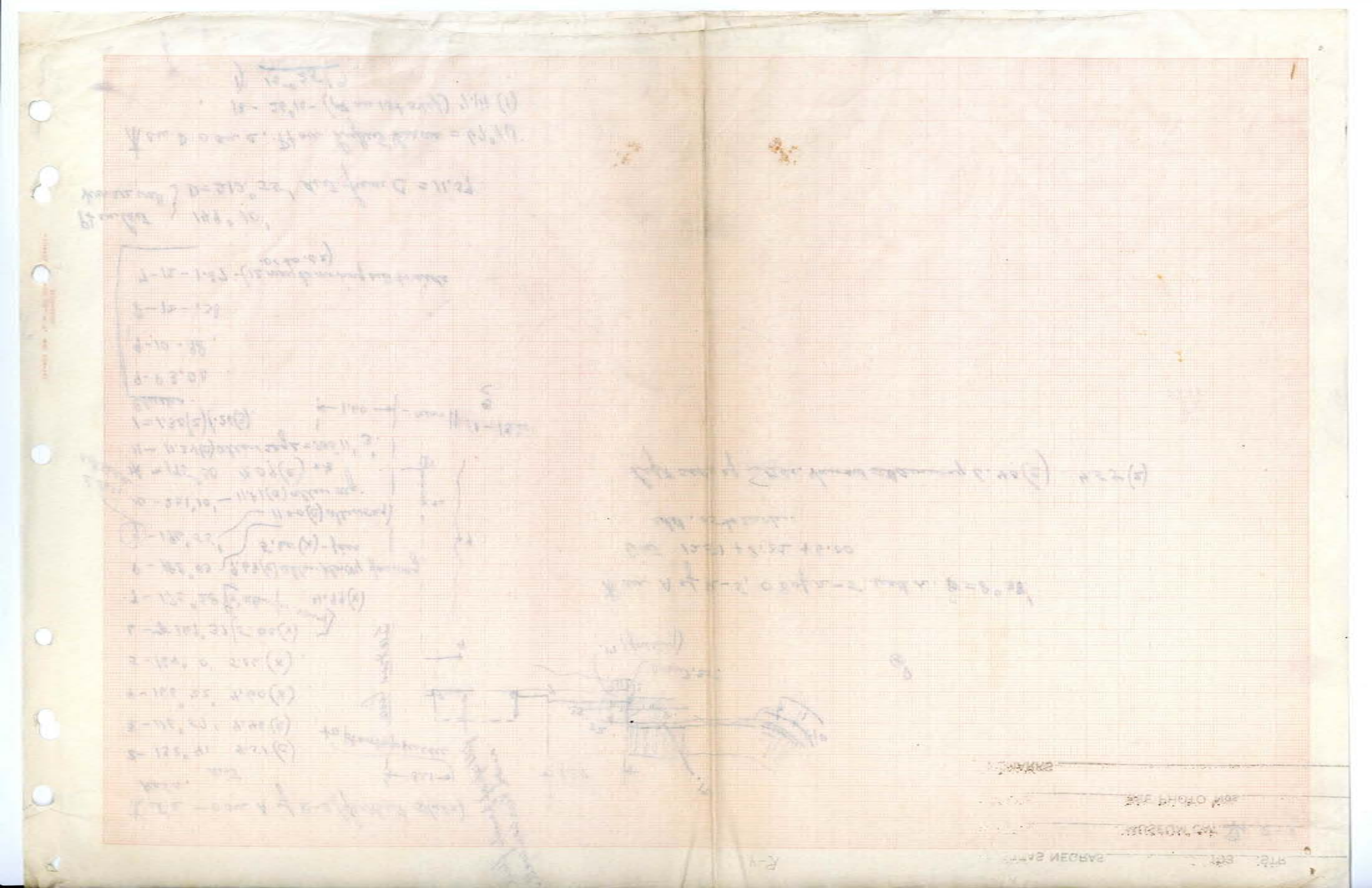
Pt on last terrace wall } 149° 10'
D = 212° 55' dist from C = 11.59

Station D on C, Pt on Right Terrace = 67° 16'

13 - 26° 16' - (pt on 1st step) 7.14 (1)

1) 15° 35' 9

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



Azm on Pt. M (sec R-10 / R-9) to on further pt. in front of R-10

Pt (E) of R-9 (and pt. below = 357°51')

Pt. A R-2 = 237°54'

Azm K of R-10 on M read right

Pt. A of R-2 = 296°16'

1 — 2.57 A ∠ = 0

2 — 5.23 (A) ∠ = 74°22'

3 — 6.62 (A) ∠ = 70°53'

4 — 7.91 (A) ∠ = 74°20'

point R-3 = 55°10'

Stake K-290°00'

Standing at west corner

maybe adequate.

Sta. R-2 (at) 85.7 (1938)

Sand washing underneath

Level.

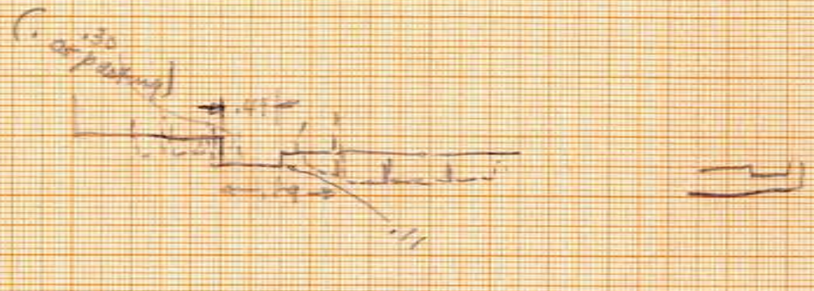
Level.

Level 1.70

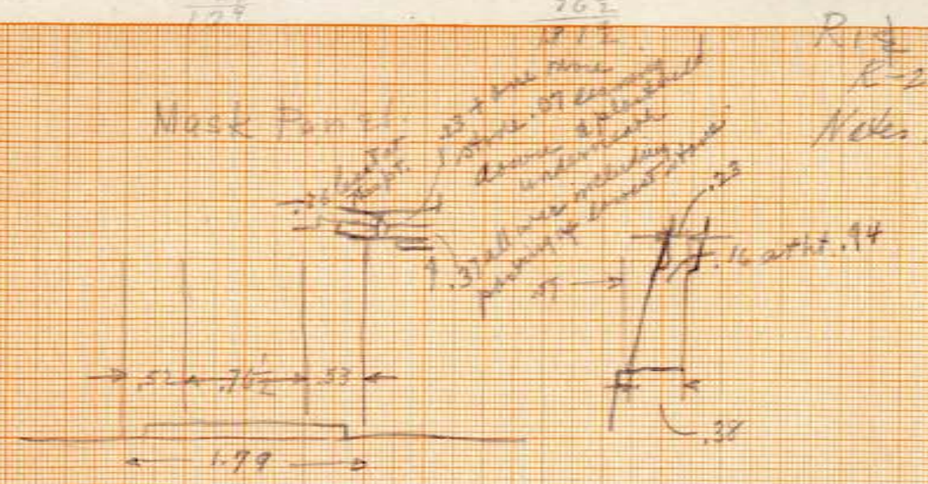
KEUFFEL & ESSER CO., N. Y. NO. 359-141
Millimeters,
MADE IN U.S.A.

Blanks at side of Stairway = .77½ x .77 wide

1st rear

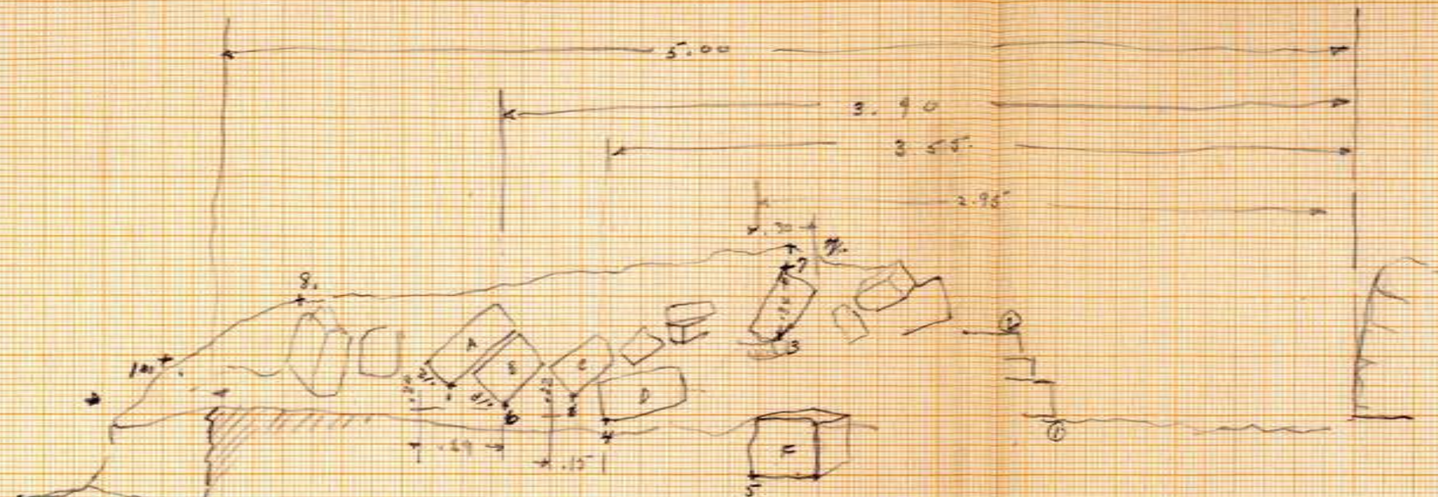


Mask Panels



Ht. of 3rd terrace pill =

KEUFFEL & ESSER CO., N. Y. NO. 350-144.
Millimeter,
MADE IN U. S. A.



Section looking toward left from center

Stone ABCD in line

Stone F .40 in front, swinging back, toward center of bldg. 10-55.

5 - 2.20 from ℄ of plan · 2.97 pt. 16 of plan

1 - 3.11 from ℄ of plan · 4.20 pt. 16 of plan.

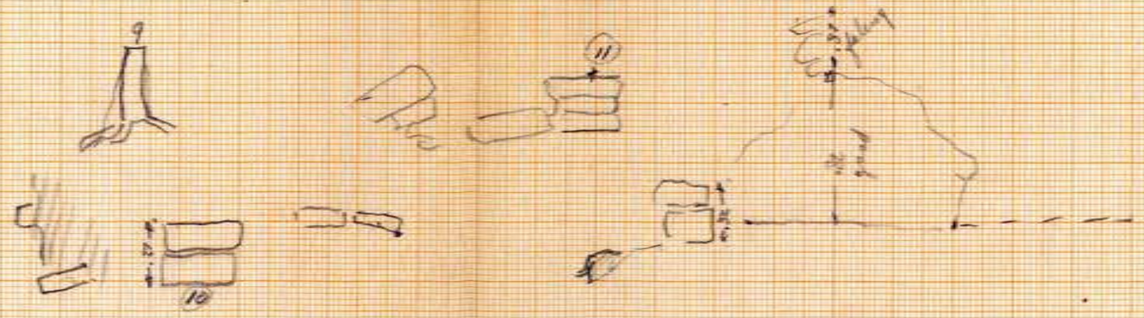
Levels

Planter on sill at right = .63

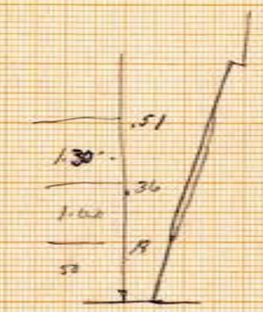
Lowest pt. of falling sill at right 1.29.

1 = 1.03
2 = .64
5 = 1.20
4 = 1.29
3 = .67
6 1.30
7 = .35
8 = .98

(trunk at right rear corner)
9 = 2.04
10 -3.30
11 -3.00

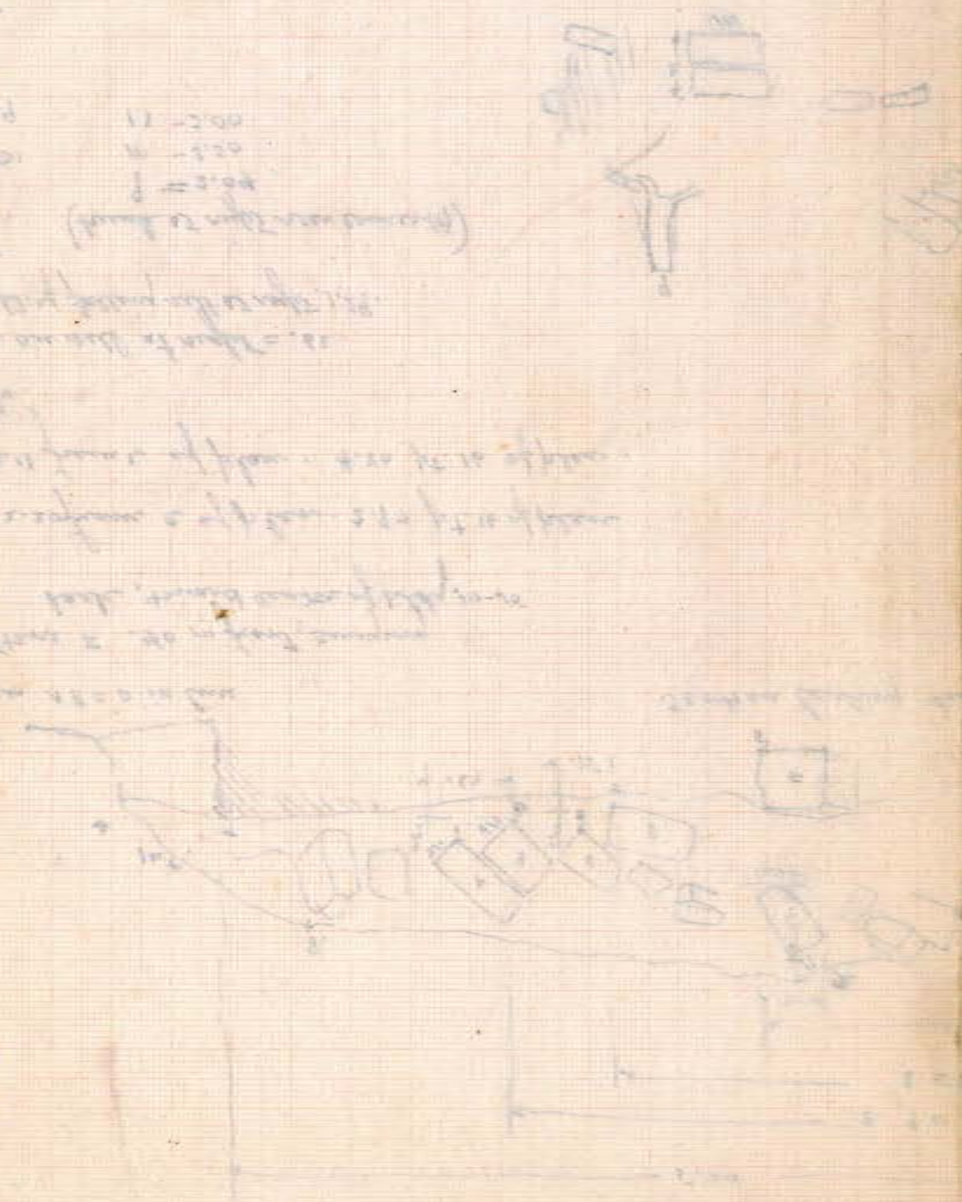


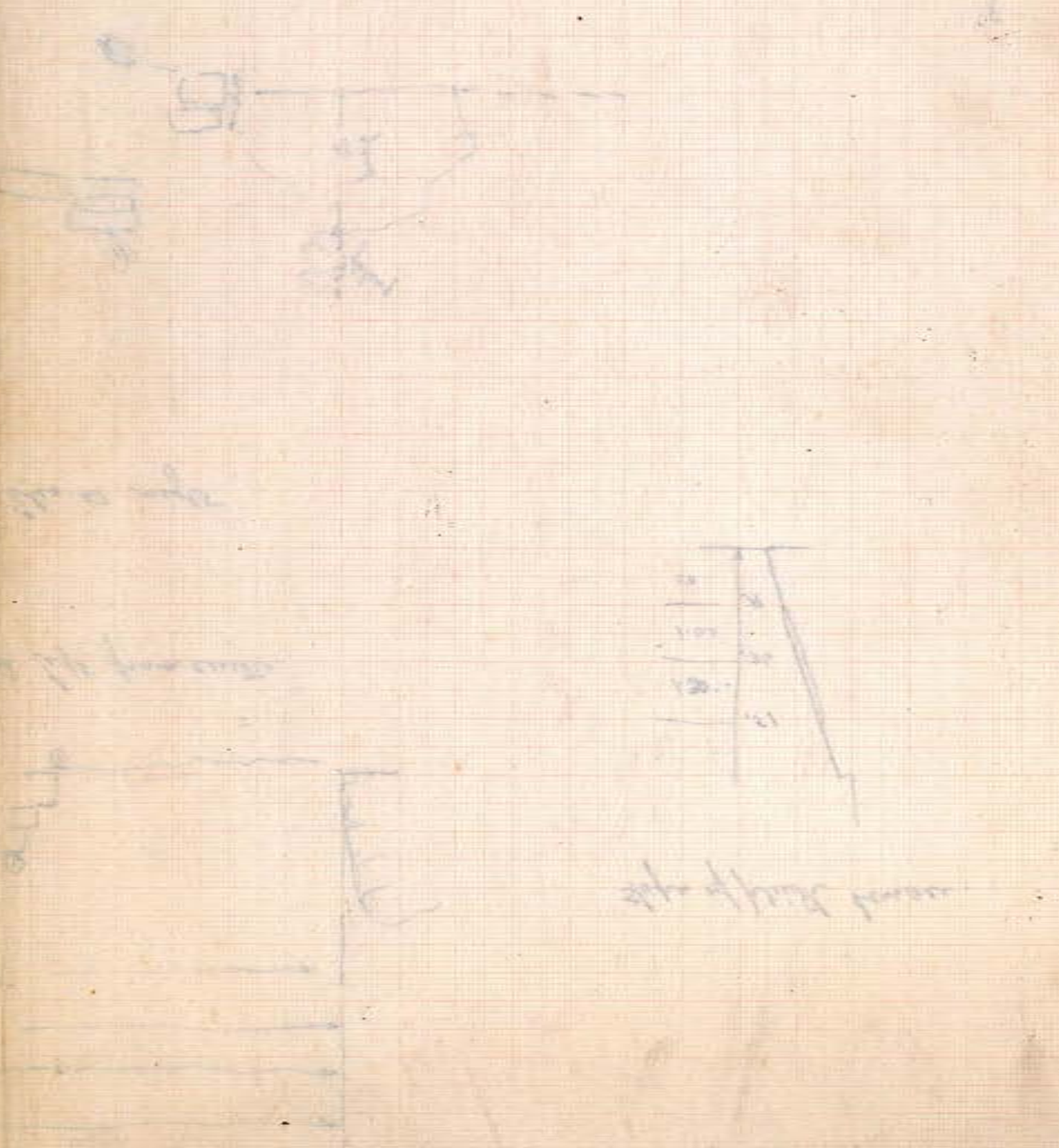
Slope of pluish terrace.



Elev. at right

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

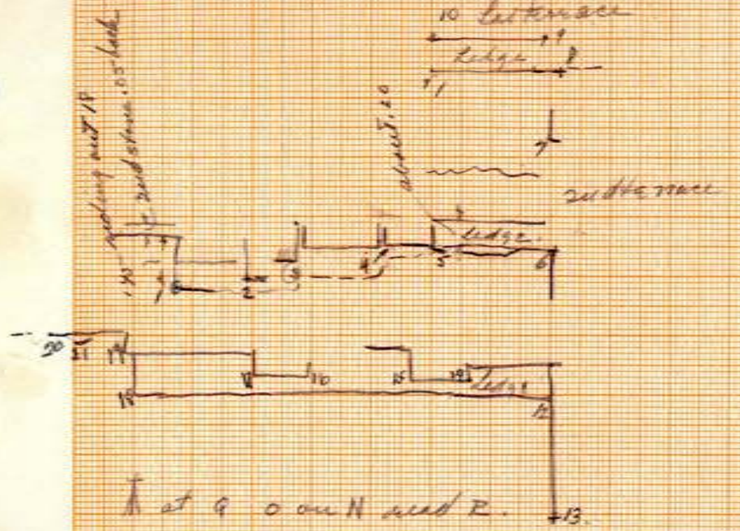




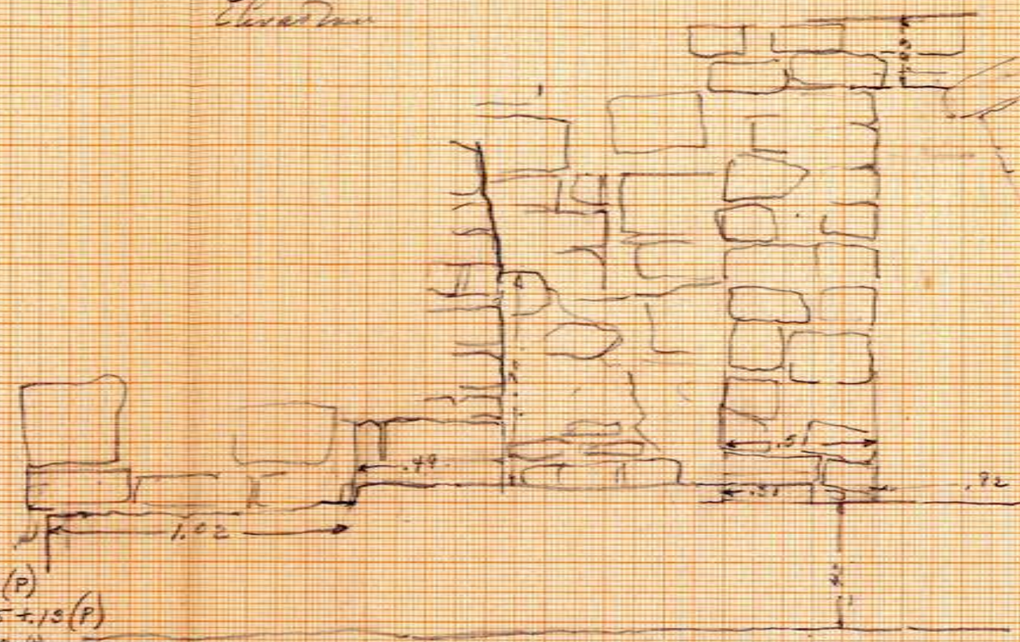
OP. No. [illegible] NUM CAT.

SCALE [illegible] PHOTO Nos.

REMARKS



Elevation



At Q on N and R.

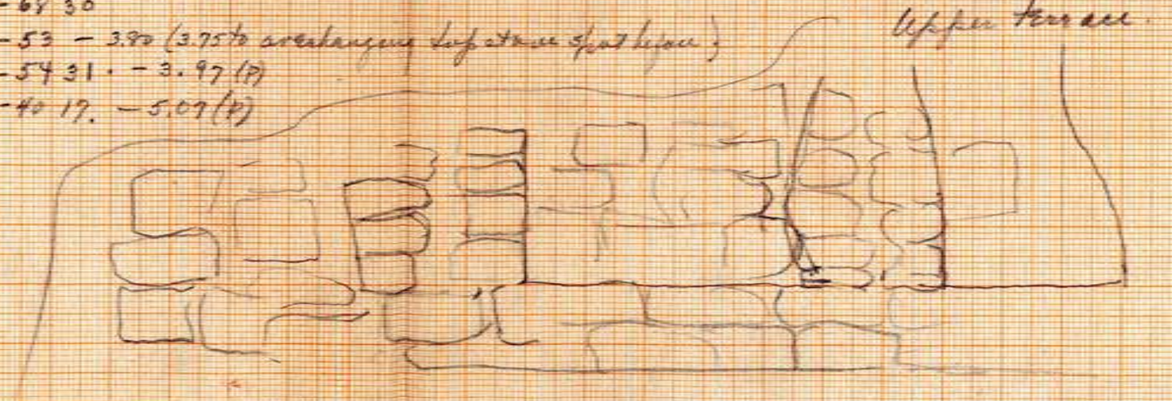
1 – 236 26
2 – 230 56
3 – 231 37.
4. – 234 54
5 – 236 47
6 – 239 42.
7 – 235 40
8 232 39
9 231 16
10 – 228 37
11 – 229 42

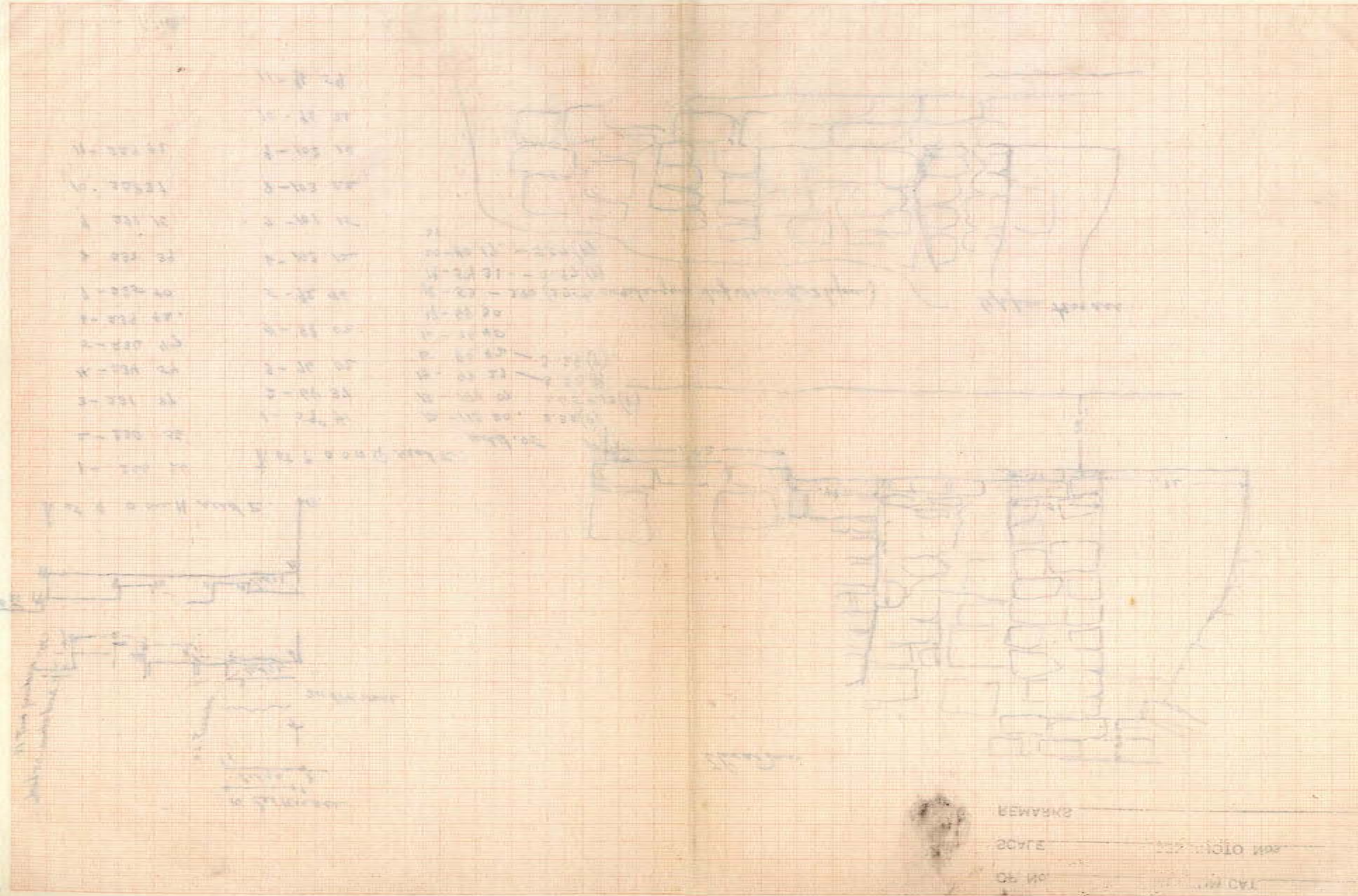
At P on Q and R.

1 – 59° 41
2 – 68 37
3 – 76 02
4 – 88 02
5 – 92 46
6 – 103 12
7 – 101 15
8 – 103 22
9 – 102 10
10 – 96 21
11 – 96 54.

add .05

12 – 113 20. 3.38 (P)
13 – 144 07 1.65 ± .13 (P)
14 – 98 27 – 3.33 (P)
15 – 89 42 – 3.28 (P).
16 – 76 40
17 – 69 30
18 – 53 – 3.80 (3.75 to overhanging step stone just below)
19 – 54 31 . – 3.97 (P)
20 – 40 17. – 5.09 (P)
21



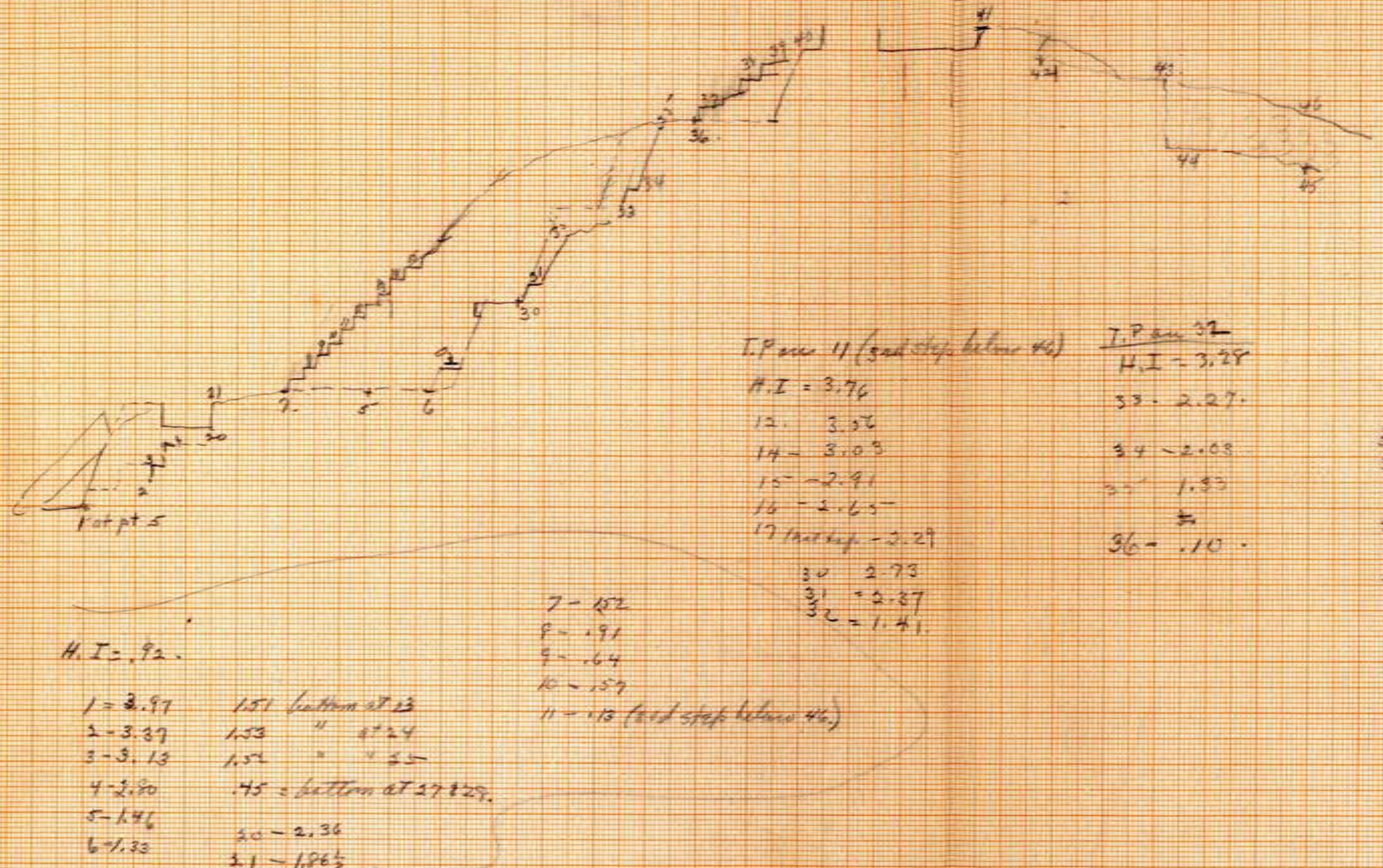


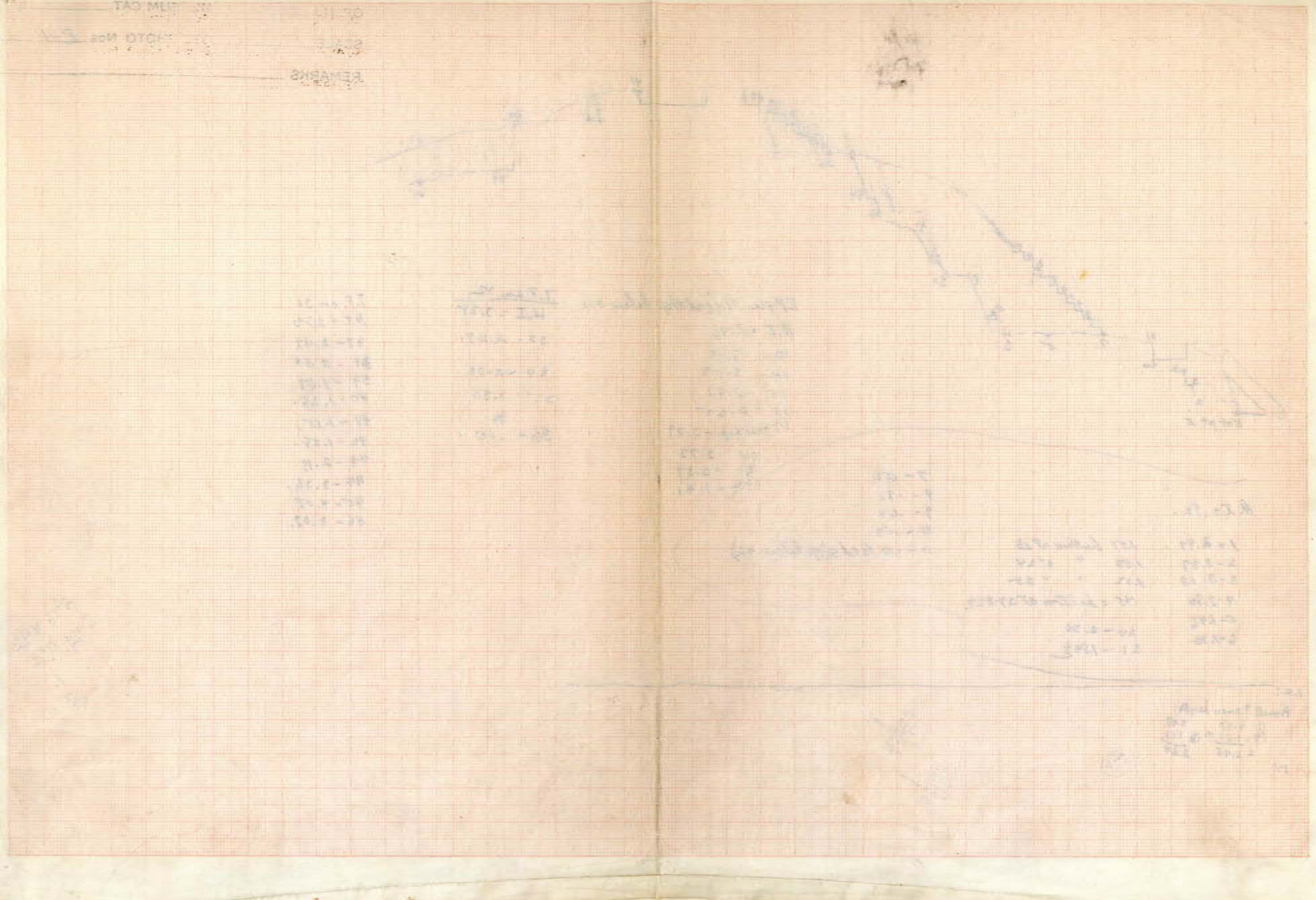
PIEDRAS NEGRAS _____ 193__ STR. _____

OP. No. _____ MUSEUM CAT. _____

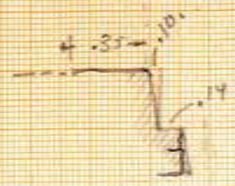
SCALE _____ SEE PHOTO Nos. 2-1

REMARKS _____





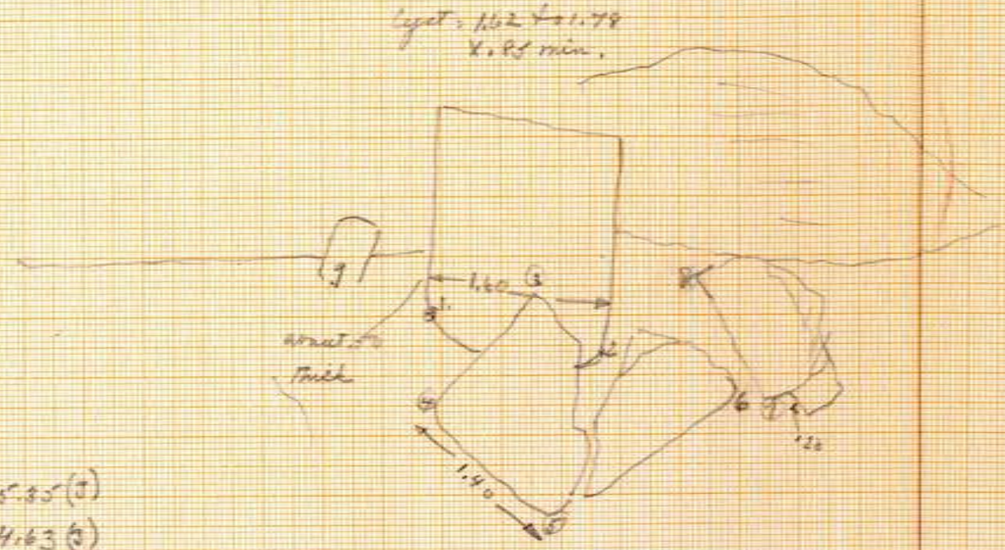
Section "step" at right of Stela terrace.



J-K = 6.13

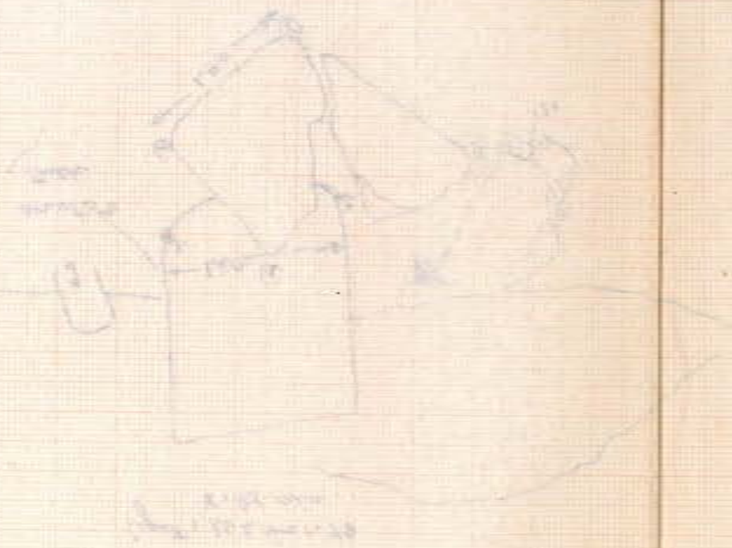
K-L = 11.27

J-L = 17.44



5 - 1.76 (K) 5.35 (J)
4 - 3.04 (K) 4.63 (J)
1 - 3.88 (K) 5.42 (J)
6 - 2.16 (K) 6.81 (J)
2 - 3.46 (K) 6.65 (J)
7 - 2.81 (K) 7.13 (J)
A - 4.11 (K) 7.72 (J)
3 - 6.05 (J) 5.66 (J)

KEUFFEL & ESSER CO., N. Y. NO. 340-145
Millimeters.



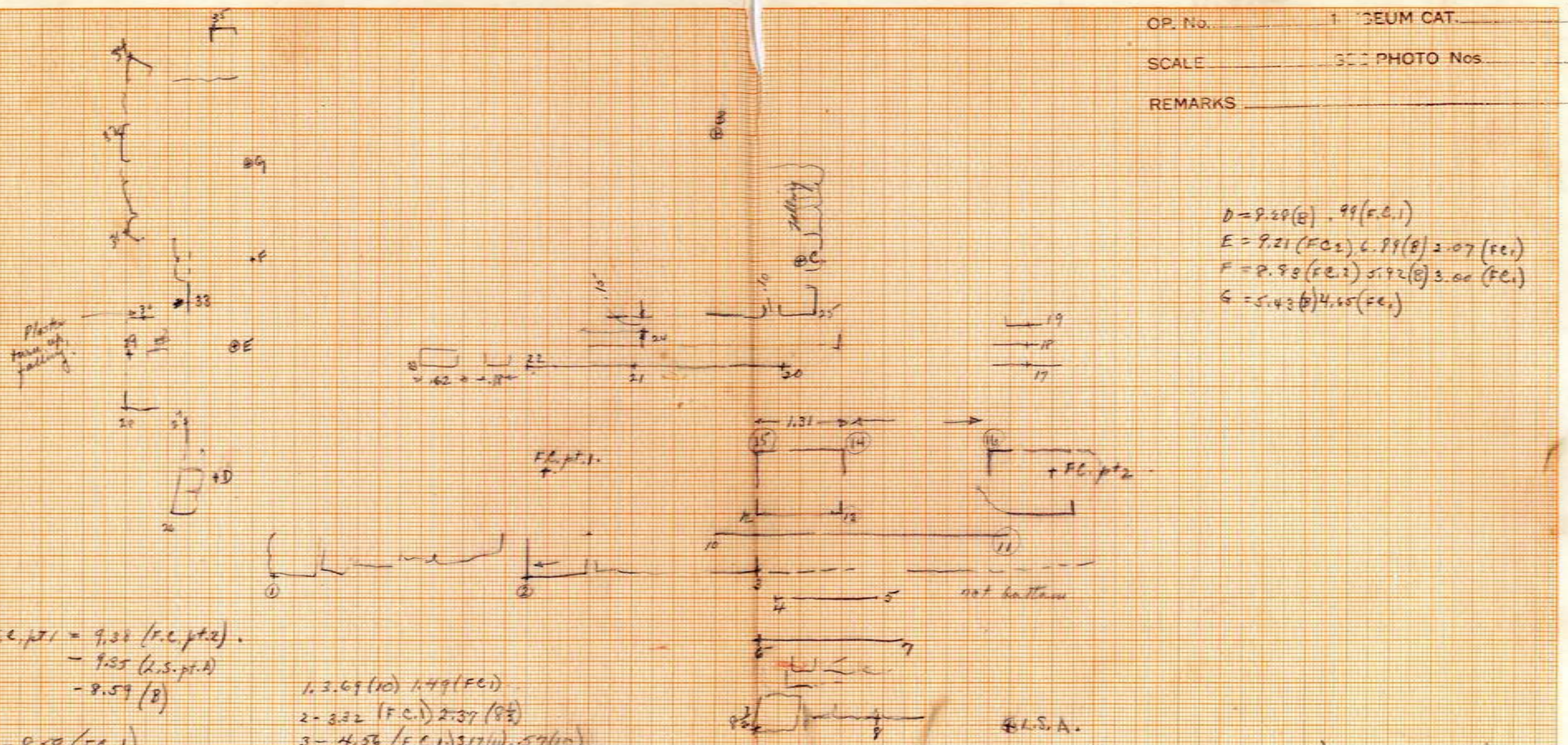
PIEDRAS NEGRAS 2-1 193 STR.

OP. No. 1 MUSEUM CAT.

SCALE 3CC PHOTO Nos.

REMARKS

D = 9.28 (B) .99 (F.C.1)
E = 9.21 (F.C.2) 6.89 (B) 2.07 (F.C.1)
F = 8.98 (F.C.2) 5.92 (B) 3.00 (F.C.1)
G = 5.43 (B) 4.65 (F.C.1)



F.C. pt 1 = 9.36 (F.C. pt 2).
- 9.35 (2.3. pt. A)
- 8.59 (B)

B = 8.59 (F.C. 1)
E = 7.15 (F.C. 2)
C = 3.49 (B) 4.19 (F.C. 2).

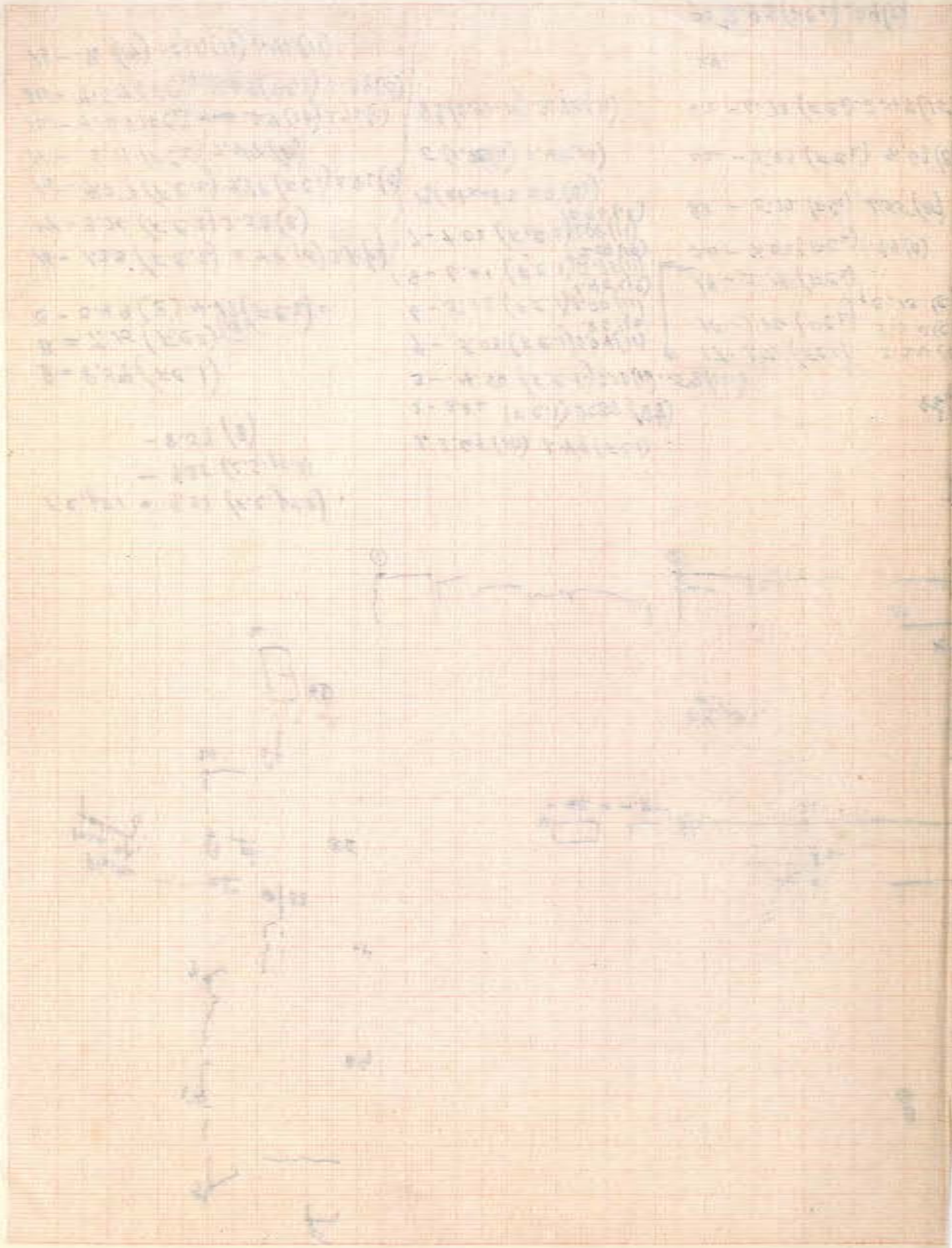
16 - 1.33 (F.C. 2) 6.42 (C) 2.18 (E)
14 - 3.26 (F.C. 2) 2.53 (C)
15 - 4.07 (F.C. 2) 4.78 (F.C. 1) 2.82 (C)
11 - 3.11 (F.C. 2) 7.47 (E).
12 - 4.68 (F.C. 2) ~~4.27~~ (13) 2.72 (C)
10 - 7.87 (F.C. 2) 4.63 (F.C. 1) 3.24 (C).
13 - .96 (14) 2.11 (12) 1.76 (11)

1 - 3.69 (10) 1.49 (F.C. 1)
2 - 3.32 (F.C. 1) 2.37 (8½)
3 - 4.56 (F.C. 1) 3.17 (11) .59 (10)
4 - 5.03 (F.C. 1) 2.84 (11) .86 (10)
5 - 5.12 (F.C. 1) 3.20 (11) 1.45 (9)
6 - 6.61 (F.C. 1) 2.75 (11) 2.58 (10)
7 - 4.02 (F.C. 2) 1.88 (11) 2.06 (6)
A (about 3.48 (C))
5 (1.32 (A)) 1.49 (10)
8½ (3.42-10) 3.70 (11)

17 - 1.71 (F.C. 2) 3.20 (C)
18 - 1.96 (F.C. 2) 3.20 (C)
19 - 3.18 (F.C. 2) 3.18 (C)
20 - 4.03 (F.C. 2) .99 (C)
21 - 5.12 (F.C. 2) 1.55 (15)
22 - 5.69 (F.C. 2) 4.69 (B) 1.81 (15)
23 - 6.73 (F.C. 2) 2.47 (15) 1.05 (22)
24
25 3.93 (F.C. 2) .34 (C)

26 1.55 (1) 2.00 (25)
27 .98 (25) 1.19 (24)
28 1.11 (E) 3.22 (G)
29 1.14 (E) 2.91 (G)
30 2.25 (G) 1.01 (G).
31 .94 (G) 1.79 (E (moved, broke)
32 6.14 (C) .97 (G) 3.13 (29)
D = 8.22 (B) .89 (F.C. 1)

33 = 1.53 (29) 4.1 mi S 2.08 (G)
34 - 4.23 (29) 1.83 (G)
35 - 1.95 (G) 1.15 (34) appox.

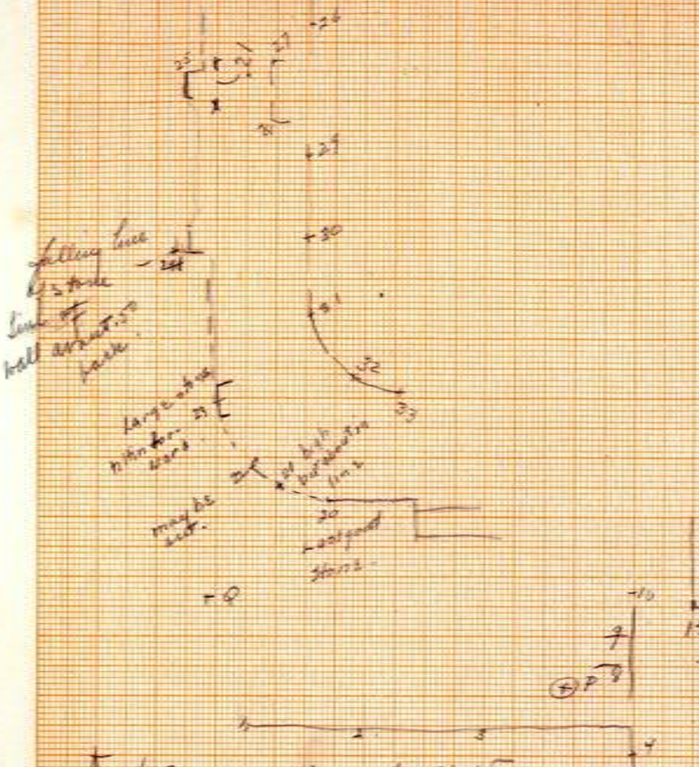


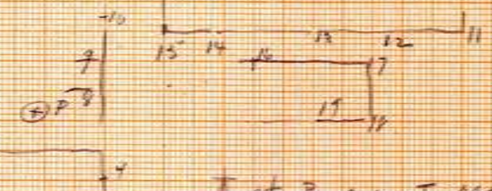
PIEDRAS NEGRAS 193 STR.

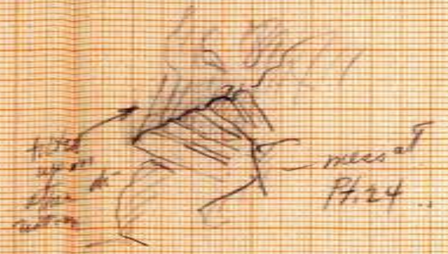
OP. No. MUSEUM CAT.

SCALE SEE PHOTO Nos.

REMARKS







Pt. 25

K on L, Read Rt. 0 on J.
F.S. pt 2 = 75 29.
11 - 54 5 1
B = 22 2 2
A = 23 49.
7 = 28 07.

K at O, 0 on M read Right.
P = 295° 24'
Q = 297° 25'
F.C. pt 1 = 265° 55'
F.C. pt 2 = 271 03.

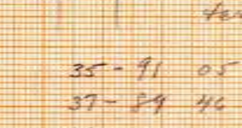
20 - 286 15'	
21 - 285 15'	
22 - 282 16	
23 - 279 21	
24 - 274 17	
25 - 268 51	probably visited from previous workings
26 - 263 24	
~~27~~ - 264 27	
27½ - 266	
28 - 268 13	
29 - 271 53	
30 - 276 38	
31 - 278 34'	
32 - 280 45	
33 - 282 32.	

K at P on J read Rt.
O = 106° 27'
F.C. pt 1 = 88° 17'

52 - 250 30	top - 259 53
50 - 258 54	262.09
48 - 261° 04	263 45'
46 - 262 30	45 - 267 25'
44 - 269 29	47 - 271 37.
42 - 272 35	45 - 273 40
40 - 276 17	~~43~~ - 276 30
38 - 281 47	~~41~~ 280 54
36 - 285 55'	39 - 284 10
34 - 290 24	37 - 288 32
14 - 296 48	35 - 289 41 (probably)
15 - 319 22'	

K on K, 0 on J. Read right.

1 = 33° 52	7 - 118 49
2 = 35 27 (9)	A = 86 37
3 - 43 57	B = 71° 0'
4 - 51 57	16 - 83 45'
5 - 49 57	17 - 96 20
	R - 96 04
	19 - 90 41
	10 - 62 37
	9 - 60 07
	8 - 57 13
	14 - 80 25
	13 - 95'
	12 - 105 25'
	11 118 51



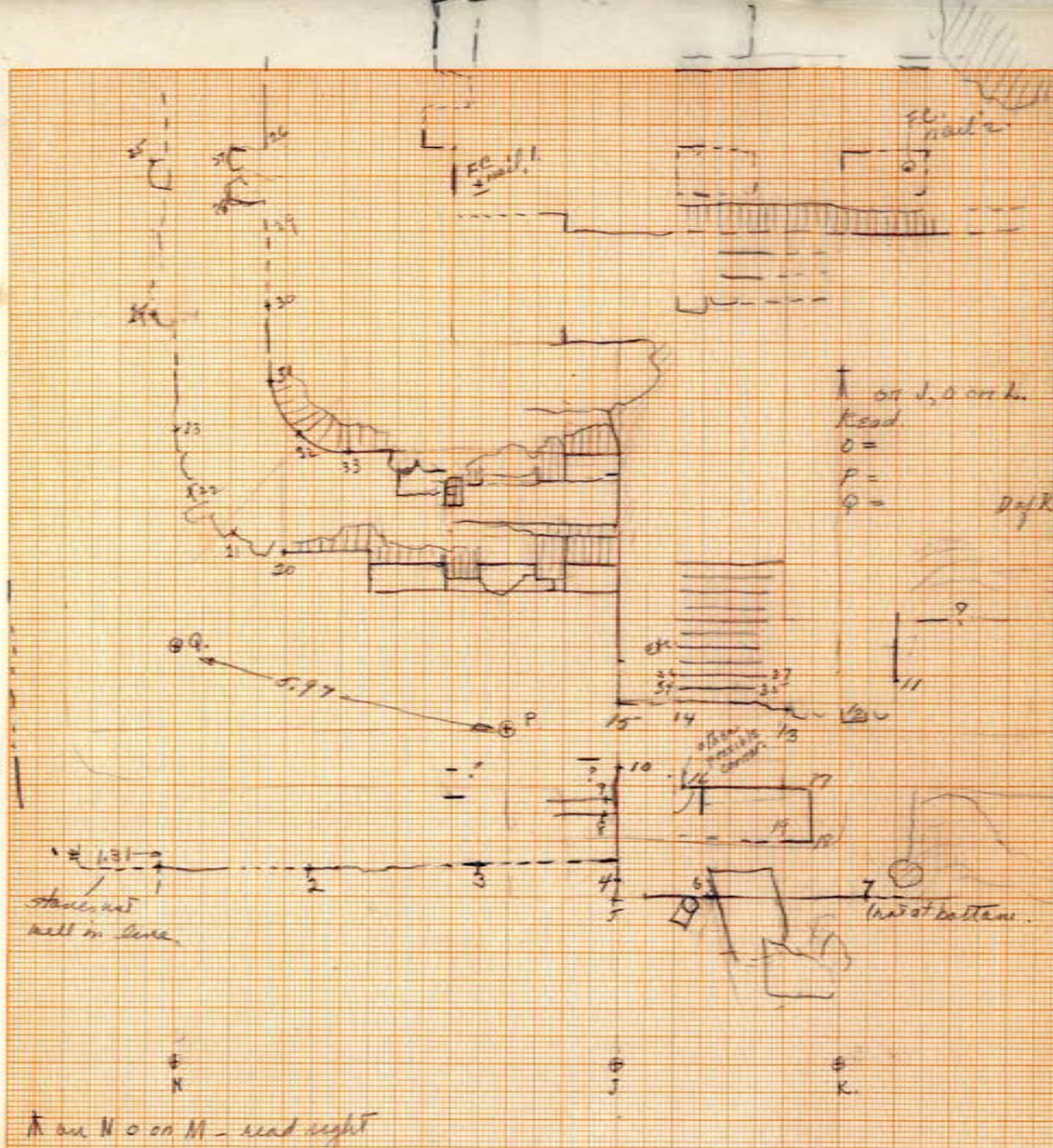
35 - 91 05	
37 - 89 46	
39 - 91 43'	
41 - 92 05'	
43 - 93 33	
45 - 96 47	
47 - 94 11	
49 - 96 04	
51 - 96 15'	
53 - 96 45'	
F.C. pt 1 - 80 46 (41)	
F.C. pt 2 - 103 05	

PIEDRAS NEGRAS _____ 193__ STR. 78

OP. No. _____ MUSEUM CAT. E-1

SCALE _____ SEE PHOTO Nos. _____

REMARKS Plan



† on B of R-10, 0 on E of R-9.
Read right.
∠M = 169° 02'
M-E = 10.51
M-N = 10.79

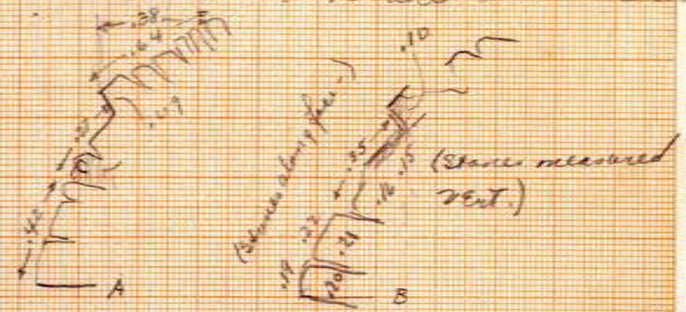
† on M, 0 on B of R-10.
Read E.

J = 183° 52'
L = 183° 14'
N = 183° 52' (plane rotates with J) 772 from J.
O = 95° 27'
P = 152 58
Diff 10 = 57° 58'
Q =

† on J, 0 on L.
Read.
O =
P =
Q =

† on N, 0 on M read right
Q = 107°
P = 128° 55'

Section and terrace at southeast corner



† on A - 0 on M, N = 02° R. read right
O = 51° 51'
Q = 79° 23'
P = 109° 33'
L = 186° 57'
Pt. 5 = 1° 7° 51'
Pt. 1 = 60° 41'
Pt. 2 = 66° 11'
17 - 139° 18'

† on N 0 on M - read right

1 = 107° 41'	9 = 141° 22'	16 = 152° 12'	23 = 104° 10'	30 = 109°	37 - 143° 28'	35 - ~~144° 03'~~ 150-23' (Also maybe pt B).
2 - 115° 54'	10 = 140° 02'	17 = 136° 28'	24 - 102° 43'	31 - 108° 18' (Section A)	36 - 142° 43'	37 - 148° 03'
3 - 133° 30'	11 = 138° 17'	18 = 138° 38'	25 = 101° 38'	32 - 109° 23' (Section B)	39 142 41	
4 = 148° 02'	12 = 150° 23'	19 - 156° 53'	26 = 104° 24'	33 - 111° 38'	40 - 142° 43'	
5 = 149°	13 = 150° 29'	20 = 109° 13'	27 - 104° 08'		42 142 17	
8 = 142° 17'	14 = 143° 18'	21 106° 15'	28 - 104° 25'		7 46 -142 49 — 146 33'	
	15 = 135° 25'	22 - 104° 38'	29 - 106° 03'		45 - 139 35' — 144 33	
					48 141-12 — 144 33	
					50 -140 42 — 144 18	
					52 -138 16. — 143 57	

R-1