

Tables of Contents of Piedras Negras Note Books  
of Satterthwaite, as of August, 1933.

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Str. J-5 -Op.W-17

No.2

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Str. J-9  
Str. J-11  
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Str. J-20  
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No.3

Str. R-1 -Op. S-17  
Str. R-3 -Op. S-2  
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No.G-1

Map  
Comparative Lists &c.  
Programs & Recomendations  
Photograph Catalogues  
South Gr'p -Miscl. Data  
West Gr'p - " "  
Recognizance data, P.N. & elsewhere  
Morley Readings  
Numerologies  
Specific data readings  
Miscl. data re monuments, lintels, &c.  
Do. re other worked stones.  
Do. re Jades. &c.  
Archeological areas  
Maya Burials - notes on  
Calendar - notes on  
Pottery classifications  
Pottery notes at P.N. - specific  
Identifications of objects.

*Misc*

Nomenclatures - Buildings, Operations  
- Monuments (with Morley date list)

Architecture - Bldg. Dimension Tables, (indices etc.)  
- Room dimension tables  
- Sill and Bench dimensions tables  
- Pyramid height tables.  
- Niche dimension tables  
- Lintel dimension tables (See also Yaxhilan)  
- Foundation Platforms  
  
- Vault stability sections  
- Benches and Thrones  
- Column Altars (with original drawings & dimensions)

- Masonry Notes

- B, sh Houses

-

Monuments - Hotun marking  
- Dimensions  
For classifications, weights and other dimensions  
see folder)

Misc. Notes & Data on stone (Metates, etc.)

Test Pits - Bedrock depths

Map - Data re (Parris)

Identifications (materials, bones)

Rain Record, 1935-7

Original Notes not distributed in Books 1-8

Key to distribution of notes in folders.

List of old (Ricketson) and new Structure Numbers.

Roman numerals I to XLIV are those of Ricketson Map.  
 Roman Numerals XLV to ~~XXX~~ IX were applied by Univ. Museum  
 in 1932, the Ricketson numbers above XLIV being discarded  
 as unusable, and sketch showing them sent to Morley. They  
 are all on the Acropolis.

Arabic numerals are those of the Museum map, made in 1932.

1	I	U-3 ✓	26	XXVI	P-7 ✓	45	XLV	J-2 ✓
2	II	U-4 ✓	27	XXVII	O-13 ✓	46	XLVI	J-6 ✓
3	III	R-1 ✓	28	XXVIII	N-11 ✓	47	XLVII	J-8 ✓
4	IV	R-3 ✓	29	XXIX	O-17 ✓	48	XLVIII	J-9 ✓
5	V	R-4 ✓	30	XXX	O-16 ✓	49	XLIX	J-10 ✓
6	VI	R-5 ✓	31	XXXI	O-15 ✓	50	L	J-11 ✓
7	VII	R-7 ✓	32	XXXII	O-14 ✓	51	LI	J-12 ✓
8	VIII	R-9 ✓	33	XXXIII	O-18 ✓	52	LII	J-13 ✓
9	IX	R-10 ✓	34	XXXIV	K-1 ✓	53	LIII	J-17 ✓
10	X	R-11-a ✓	35	XXXV	K-2 ✓	54	LIV	J-18 ✓
11	XI	R-11-b ✓	36	XXXVI	K-7 ✓	55	LV	J-19 ✓
12	XII	R-13 ✓	37	XXXVII	K-6-a ✓	56	LVI	J-20 ✓
13	XIII	R-14 ✓	38	XXXVIII	K-6-b ✓	57	LVII	J-21 ✓
14	XIV	Notmapped	39	XXXIX	not mapped	58	LVIII	J-22 ✓
15	XV	"	40	XL	K-3 ✓	59	LIX	J-23 ✓
16	XVI	"	41	XLI	K-4 ✓	60	LX	J-24 ✓
17	XVII	"	42	XLII	K-5 ✓			
18	XVIII	R-16 ✓	43	XLIII	J-3 ✓			
19	XIX	O-2 ✓	44	XLIV	J-4 ✓			
20	XX	O-3 ✓						
21	XXI	O-4 ✓						
22	XXII	O-5 ✓						
23	XXIII	O-2-a . O-2-a						
24	XXIV	O-7 ✓						
25	XXV	O-12 ✓						

Our re-numbering of 1931-2.

Memorandum re Material for Piedras  
Negras Reports.

J.A.M.

1931 Str. O-12 (XXV)  
1931 Str. P-7 (XXVI)  
1931 Str. O-13 (XXVII)  
1931 Str. K-5 (XLII)  
1932 Str. K-5-2nd (XLII)  
1932 Str. K-5-3rd. (XLII)  
1932 Str. R-3 (IV)  
1932 Str. O-13-2nd (XXVII)  
1932 Megalithic Stairways  
-stairway of Str. R-3  
- " Str. R-7  
- " Str. P-6  
- " Str. J-1  
-refer to Str. J-6

L.S.Jr.

1931 Str. J-3 (XLIII)  
1931-2 Str. J-2 (XLV)  
1931-2 Ball Courts, Strs. R-11 & K-6  
1931-2 Acropolis Palaces  
-ground plans  
-fittings  
-design details  
-vaults  
-masonry  
&c.  
1931-2 Buildings with roofs of  
perishable materials  
-Strs. VII to V-1 (LXIII)  
-Str. J-20  
-Str. J-17  
~~-Str. J-12~~  
-mention  
Strs. K-5-3d  
R-3  
J-12  
1932 General Description of site  
and excavations, with  
map.  
1932 Str. O-7 (XXIV)  
1932 Str. J-6 (XLVI)  
-including stairway  
- " throne.  
1932 Burials, Nos. to to 8  
-combining reports of  
J.A.M. on No.4 and M.B.  
on No.6, Amram on Nos.  
7 and 8.

*add top of ques*

Malér	Morely	Univeristy Museum
Templo de las 8 Estelas	I	J-4
Templo de las 3 Estelas	II	J-4
Templo de las 10 Estelas	III	O-13
Templo de las Est. 22, 23	<del>XX</del> IV	O-12
Edificio de 8 Oposentos	V	P-7
Templo de las Est. 24 - 27	VI	R-9 & R-10
Templo de la Est. 28	VII	R-1
Templo de la Est. 29	VIII	R-3
Templo de la Est 30	IX	R-4
Templo de las Est. 32 - 37	X	R-5

Table of equivalent Structure designations used by Malér, 1901, ~~Морлея, 1920, and Университетского Музея~~ Morley, 1920, and ~~Университетского Музея~~ by University Museum on this map.

*Food - Malér's comparison  
Kassimb.*



MARY BUTLER

W-9-1  
W-10-1  
W-11-1  
  
W-19-1  
W-20-1

~~E-3-1  
E-4-1~~

S-3-1  
S-4-1

S-6-1

S-7-1

S-8-1

SE-4-1

SE-5-1

SE-6-1

SE-7-1

SE-8-1

L.S. Jr

W-8-1 - Str 21  
  
W-12-1 XLVI  
W-13-1 LIV  
W-14-1 LVII  
W-15-1 ~~XLV~~ XLVI  
W-16-1 - XLIV  
W-17-1 -  
W-18-1 -

W-2-22 XLV

E-7-1 (altus)

S-9-1

next - W-28-

J. A. MASON

W-6-6

E-1-125

D. Amram, Jr.

S-2-1

S-5-1

S-1-49	South Group	Ball Court	Operation 1 (R-11 a+b)
S-2-28	" "	Structure #4	(R-3)
S-3-4	" "	Test Pit in Front of Terrace of Structure #6	(R-5)
S-4-4	" "	Test Pit - Ravine Behind Pyramid #6	(R-5)
S-5-6	" "	Structure #5	(R-4)
S-6-2	" "	Test Pit - South Plaza in front of #6	(R-5)
S-7-11	" "	Test Pits - Ravine Between Ball Court and Pyramid #25	(R-11 & O-12)
S-8-4	" "	Test Pit - Head of Ravine between Ball Court and Pyramid #25	(R-11 + O-12)
S-9-1	" "	Mound of the Broken Lintel in Doorway (Court N. E. of Structure #18, side next to Ravine)	(O-4)
S-10-3	" "	Test Pit #2 - between Ball Court and Structure 25	(R11 and O-12)
S-11-5	" "	Structure immediately East of Structure #4	(Str. 11-5)
S-12-1	" "	Terrace Behind (South of) Structure #4	(R-3)
1933 - Corvis to S-18-1			
S.E.-1-44	SouthEast Group	Operation 1	(Str. V-1)
S.E.-2-5	" "	Operation 11	(Very small low mound N.E. of Str. V-1)
S.E.-3-1	" "	Operation 111	- Corvis Survey
S.E.-4-1	" "	Test Pit - Plaza on top of Pyramid	
S.E.-5-1	" "	Foot of Pyramid - Test Pit	
S.E.-6-2	" "	Test Pit - Between two mounds - Main level	
S.E.-7-4	" "	Test Pit - In corner of Lower Plaza	
S.E.-8-3	" "	Test Pit - At foot of South East Pyramid in Transverse Valley	

#### Miscellaneous

M-20-3

Stones:

List of Morley's readings.

Morley's Recommendations, 1932.

Lintels & misc. carved stones.

Misc. stone objects.

" Saderte "(but see burials).

Correlation dates.

Revised List of Miscellaneous Sculptured Stones, Piedras Negras

MSS No.	Cat. Nos.	Locus	Dimensions	Description	Remarks	Year found	Disposition
MSS 1	E-1-31 <sup>x</sup> L-16-81 <sup>x</sup>	Str. O-13-1st	13x25 cm.	Portable altar Frag.	Below floor Incomplete I.S. SGM Pl 30g, 119d	1931	Phila. 1931 <u>Guat. 194</u> B
MSS 2	None	Str. J-10	8x20x45 cm.	Incised squares as if for glyphs	Probably used as wall stone; see Photo 32-S-151, 3d from left	1932	Left at PN
MSS 3	W-2-20 <sup>x</sup> L-16-840 <sup>x</sup>	Str. J-12	6x45x45 cm.	Incised squares, blank and with start of carving glyphs (no field photo in cat.)	Crude building slab, "face" up in plinth. Nothing readable - unfinished practice slab?	1931	Phila. 1931
MSS 4	None	Str. R-11		Sly. Ball Court marker	See PNA:A/IV/Fig.11d	1931	Left at PN
MSS 5	None	" "		Nly. ditto	" " "Fig.11c; and Photo 31-314	"	" " "
MSS 6	W-6-5 <sup>x</sup> L-16-974 <sup>x</sup>	Str. J-23	8x	Incised building slab (no f. photo in cat.)	Crude animal form-deer? In debris	1931	Phila. 1931
MSS 7	None	Locus doubtful		Probable throne-leg	See "aler 1901, Pl 11		Peabody, H Harvard
MSS 8	W-12-31 <sup>x</sup> L-39-240 <sup>x</sup>	Str. J-6		Small incised building slabs (no field photo?)	Crude unfinished "glyphs" and "drawings" Practice slab? From debris over R'm2	1933	Phila. 1933
MSS 9	W-7-4 <sup>x</sup>	Str. K-6-a		Probably Frag. of seat of table throne See Photos 33-170 to 181; 182 to 193	"Throne 2" of SGM (1938, III Fig.96, V, Pl. 119e). CR 11 Ahau 18 Chen (Q.11.10.0.0?)	1933	<u>Guat. 1933</u> (Cast to Phila.)
MSS 10	W-7-9 <sup>x</sup> L-39-239 <sup>x</sup>	Str. K-6-b	10x70x140 cm. (as restored)	Carved Ball Court Panel Frags. See Photos 33-182 to 186	Two ball-players, probably dancing; from surface of bench, centered	1933	Phila. 1933 <u>Guat., 194</u> B
MSS 11	S-2-51 <sup>x</sup> L-39-241 <sup>x</sup>	Str. R-3-3d	9x10x5 cm	Apparently carved fragment no field photo?	From fill about 1.00 m. below R-3-3d floor, center trench	1933	Phila. 1933
MSS 12	None	Str. K-5-1st	4x22x26	Carved fragment, glyphs, <del>at</del> border  (See Photo 33-152) Also 33-151 + 153 for large "L" frags.	Dimensions indicate part of "Lintel" 7; From front slope over supposed SEly edge of stairway, about 3.00 m. SE of axis, about over narrow terrace between masks, about 3.10 higher than basal (stela) terr.	1933	Left at P..N with major Frags. of "Lintel 7"
MSS 13	NE-4-13 <sup>x</sup>	Str. J-29	7/11x52 x81 cm.	6 Frags. of turtle-backed panel	Reused as wall and fill stones. See SGM 1938, III Fig.106, V, Pl. 178Gc. Illegible inscription	1935	<u>Guat. 1935</u> (Cast to Phila)
MSS 14	W-30-6 <sup>x</sup> L-70-309 <sup>x</sup>	Str. J-9	7.5x23x 32.5 cm.	Incised Frag.,	Crude glyphs	1935	Phila. 1935
MSS 15	W-43-11 <sup>x</sup>	Str. J-5		"Carved Frag."		1935	<u>Guat. 1935</u> B
MSS 16	E-1-187 <sup>x</sup> L-79-204 <sup>x</sup>  (2nd Frag., E-1-219) <sup>x</sup>	Str. O-13		Carved Panel Frag. on stela. See Mus. Bull. 8/2-3.	God impersonator, see Photos 36-291/to -295; Mus. Bull. 6/5/ Plate VII; joined to second Frag. found later (1939)	1936	Phila. 1936 <u>Guat. 194</u> B
MSS 17	None E-1-186 <sup>x</sup>	Str. O-13		Incised "graffiti" building slab	Apparently meaningless lines; rubbing taken	1936	Left at P.N.
MSS 18	W-34-9 <sup>x</sup>	Str. J-10		Incised squares	Photo <del>36-345</del> 36-345, bottom, middle	1936	<u>Left at PN</u>
MSS 19	W-30-33 <sup>x</sup>	Str. J-4		Incised glyphs on jamb-stone	Photo 36-38	1936	<u>Guat. 1937</u> B

to Guatemala  
B confirmed by Berlin, 1950  
no checked in Obj. Cat  
" " in "Concordance"

List of Miscellaneous Sculptured Stones, 1930

B containing 1844, 1120  
1080, 1120

MS 18	A-20-22 x 24 x 7-8	Incised stylus on rectangular base	1820	1820	1820
MS 19	A-24-2 x 24 x 1-10	Incised stylus	1820	1820	1820
MS 20	A-24-2 x 24 x 0-12	Incised stylus	1820	1820	1820
MS 21	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 22	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 23	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 24	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 25	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 26	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 27	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 28	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 29	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 30	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 31	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 32	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 33	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 34	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 35	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 36	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 37	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 38	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 39	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 40	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820

MS 41	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 42	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 43	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 44	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 45	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 46	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 47	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 48	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 49	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 50	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 51	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 52	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 53	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 54	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 55	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 56	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 57	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 58	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 59	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 60	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 61	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 62	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 63	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 64	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 65	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 66	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 67	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 68	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 69	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820
MS 70	A-24-2 x 24 x 1-2	Incised stylus	1820	1820	1820

Received of the Negras Sculpt. Stones, 1950

Revised List of "Lintels", Piedras Negras

Year Found

L. No.	Cat. Nos.	Locus	Dimensions	Description & Remarks	Year Found	Disposition
"L."1	None	Str. 0-13?	6	Maler, 1901, Pl. 30; panel <del>Never found; "Lintel" No. allowed by Maler</del>		Peab., Harv.
"L."2	None	Str. 0-13	6	Panel; Maler, Plate 31		Peab. Harv.
"L" 3	E-1-123 <sup>x</sup> L-16-38 <sup>x</sup>	Str. 0-13	6	Panel; Frags. restored; Maler allowed/ for this No.	1931	Phila. 1931 <u>Guat. 194</u>
"L" 4	None	Str. R-5	0	Panel; Maler, Pl. 32		Left at P.N.
"L" 5	None	Str. J-3	0	Panel Frags. See Photos. 31-139, 207; P.N. Prel. Paper 5, Pl. X 4c; Maler p55.	1931	Left at P.N.
"L" 6	None	S.Group		Panel? See Maler p 25; Fig. 26; Photo 31-140		Left at P.N.
"L" 7	None	Str. K-5-lsy	0	Panel. See Photos 31-26 and -60; 33-152. F <sup>1</sup> ags. probably part of this: M.S.S.12; Cat. Nos. <u>W-5-76</u> ; <u>W-5-110</u> ; <u>W-5-111</u> ; Others possibly part of "L"7: Cat. Nos. <u>W-5-78</u> ; <u>W-5-79</u> ; <u>W-5-98</u> ; <u>W-5-216</u> ; <u>W-5-217</u> .	1931- 1939	Main Frags. & MSS 12 Left at P.N. Cat. Nos. opposite to <u>Guat. 1939</u>
"L" 8	None	Str. 0-18	13x71x74 cm. x	Panel Frag. See Photo. 31-347 ("Thomas") left;	1931	Left at P.N.
"L" 9	M-16-1 <sup>x</sup>	Str. 0-18	13x	Panel Frag., glyphs; See Photo 31-233/ SGM 1938, V, Pl. 142d; glyphs	1931	<u>Guat. 1931</u>
"L"10	SE-1-22 <sup>x</sup>	Str. V-1	10x	Panel Frag. See Photo 31-233 right; SGM V. Pl. 142e; glyphs	1931	<u>Guat. 1931</u> B
"L"11	None	Str. R-3-1st	21x82x163 cm.	True lintel, found in doorway, face down; all-glyphic; illegible; See Photo 33-226; SGM V, Pl. 120; Ph. 32-S-54	1932	Left at P.N.
"L"12	No. F.No.? L-27-198 <sup>x</sup>	Str. 0-13	23x55x120	Two Frags., joined; used in wall of Str. 0-131-1st; See Photos 32-S-81&92; SGM V, Pl. 119c, 27a;	1932	Phila. 1932 <u>Guat. 194</u>
"L"13	None	Near Meg. St., Str. J-1	13x20x44	Two Frags.; glyphs. See Photo 32-N-141; S.G.M. V, Pl. 132e	1932	Left at P.N.

NB: This ends the "Lintel" series; all undoubtedly vertically-placed panels except Lintel 11.

— = To Guatemala  
B = confirmed by Berlin  
✓ = Cat. Nos. re-checked, ok. (C. O. D.); "C. O. D." (C. O. D.)

LIST OF MONUMENTS AND THEIR DATES AT PIEDRAS NEGRAS

1932

or 9.4.3.0.17 5 Gham O Zac (Silla, Ponce, 1934) List

(GTM 1800 years)  
5/4

Lintel 12	9. 4. 0. 0. 0
Stela 30	9. 5. 0. 0. 0
Stela 29	9. 5. 5. 0. 0
" 42	9. 5. 10. 0. 0
hiatus of 12 hotuns	
" 25	9. 8. 15. 0. 0
" 28 (?)	9. 9. 0. 0. 0
" 24 (?)	9. 9. 5. 0. 0
" 27 (?)	9. 9. 10. 0. 0
" 26	9. 9. 15. 0. 0
" 41	9. 10. 0. 0. 0
" 31	9. 10. 5. 0. 0
Fragment A	9. 10. 6. 5. 9
Stela 33	9. 10. 10. 0. 0
" 32	9. 10. 15. 0. 0
" 34	9. 11. 0. 0. 0
Altar 6	9. 11. 5. 0. 0
Stela 35	9. 11. 10. 0. 0
" 36	9. 11. 15. 0. 0
Lintel 4	9. 11. 15. 0. 0
" 2	9. 11. 15. 0. 0
Stela 37	9. 12. 0. 0. 0
" 39	9. 12. 5. 0. 0
" 38	9. 12. 10. 0. 0
" 6	9. 12. 15. 0. 0
" 8	9. 13. 0. 0. 0
" 2	9. 13. 5. 0. 0
" 4	9. 13. 10. 0. 0
" 1	9. 13. 15. 0. 0
" 3	9. 14. 0. 0. 0
" 5	9. 14. 5. 0. 0
" 7	9. 14. 10. 0. 0
" 23	9. 14. 15. 0. 0
" 11	9. 15. 0. 0. 0
" 9	9. 15. 5. 0. 0
" 10	9. 15. 10. 0. 0
" 40	9. 15. 15. 0. 0
Altar 2	9. 16. 0. 0. 0
Stela 22	9. 16. 5. 0. 0
" 17	9. 16. 10. 0. 0
Lintel 3	9. 16. 10. 0. 0
Stela 16	9. 16. 15. 0. 0
" 13	9. 17. 0. 0. 0
" 18	9. 17. 5. 0. 0
" 19	9. 17. 10. 0. 0
" 15	9. 17. 15. 0. 0
Throne of Structure XLVI	9. 17. 15. 0. 0
Altar 4	9. 18. 0. 0. 0
Stela 12	9. 18. 5. 0. 0
" 14	9. 18. 10. 0. 0
" 20	9. 18. 15. 0. 0
Altar 3	9. 19. 0. 0. 0
" 1	10. 0. 0. 0. 0

(4 m No list but not in his letter)

could be add date (S.g.M.) - but variable element in int. glyph is correct for this for later is uncial skin signs are high - no calendar round date preserved - S.g.M.

1930 - Has shifted 9.6.0.0.0 (2)

Lintel 2  
3  
4  
5

7 - 9.0.0.0.0

(New style 29) - Altar 6



also Lintel 7, monkey thinks - would had marks - at least 9.10 + 9.12.10.00 of possible - letter 9.10.21, July 19, 1934.

(why in east group?)

- only Katon marker not an altar after since 9-16

Lintel 5 - 9.16.0.0.0  
mark - 10400 chance

\* Initial Series is 9.15.18.3.13

\* Per Year Book # 28, p 327 (1928-9)

OVER

"Lintel" 12: per S.G.M. letter Dec 20, 1934:

J.S. 9.3.19.12.12 9 EG 10 Tzec (NB there is a glyph between day + month)  
(5-8.)


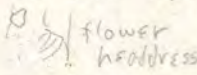
9.4.0.0.0 13 Ahau, 15 Yax (being looking Ahau). (3 glyphs between  
day + month).

3.0.7 5 Coban (0 Zac) (3 zero + 7 mod clear to me).  
? N. can't distinguish this.

Miscellaneous Sculptured Stones- Piedras Negras.

M.S.S.No.

Mu Cat No.

- |    |                                                                                                                                                                                                                                                                                                                                |                                |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1  | Fragment of portable altar, I.S.; has been referred to as "Fragment 1" and "Fragment A", possibly in print by Morley. From Str. 0-13                                                                                                                                                                                           | L-16-81                        |
| 2. | Small slab from Str. J-10; squares cut by lines, as if in preparation for cutting glyphs                                                                                                                                                                                                                                       |                                |
| 3. | Similar slab from J-12, with unfinished glyphs started in several squares                                                                                                                                                                                                                                                      | L-16-340                       |
| 4. | Southerly marker, Str. J-11 (left in field)                                                                                                                                                                                                                                                                                    | ---                            |
| 5/ | Northerly ditto.                                                                                                                                                                                                                                                                                                               | ---                            |
| 6. | Small slab (like Nos 2 and 3, probably re-used as building material), with graffiti (of deer?) from J-23                                                                                                                                                                                                                       | L-16-474                       |
| 7. | Throne or altar leg in Peabody museum (see <u>Maler</u> )                                                                                                                                                                                                                                                                      | ---                            |
| 8. | Small slab from Str. J-6, R'm 2. Lines and scratches, as if a practice block, or child's work (Field S-12-31)                                                                                                                                                                                                                  | L-39-240                       |
| 9/ | Fragment, probably from the front and end of a small stone throne seat - from Str. K-6-a. Has been called "Throne 2", probably by Morley in print. Went to <u>Guatemala</u> - we have cast of inscription.                                                                                                                     | W-7-4 (Field No)               |
| 10 | Sculptured panel from K-6-b, dancing figures.                                                                                                                                                                                                                                                                                  | L-39-339                       |
| 11 | Fragment from fill under structural floor of Str. R-3-3d (i.e. Period 3-b).                                                                                                                                                                                                                                                    | L-39-241                       |
| 12 | Probably fragment of Lintel 7. From front slope over supposed SE edge of stairway, Str. K-5: i.e. about 3.00 SE of front-rear axis of mound, and about over to the narrow terrace between the two masks, and about 3.10 higher than the stela terrace. Found close to surface. Dimensions indicate part of Lintel 7. Left P.N. | blood with Lintel 7 P.N. ***-- |
| 13 | Fragments from Str. J-29. See 1934 notes. Went to Guatemala; we have cast of faces of fragments.                                                                                                                                                                                                                               | NE-4-13                        |
| 14 | Fragment from Str. J-9 (1935) (Field W-30-6)                                                                                                                                                                                                                                                                                   | L-70-309                       |
| 15 | Ditto from Str. J-5  (Field W-43-11) Gaut?                                                                                                                                                                                                  |                                |
| 16 | Fragment, probably from panel, Str. 0-13                                                                                                                                                                                                  | L-79-204                       |
| 17 | Graffiti slab from Str. 0-13. See Cresson notes; Object drawing book. Left in P.N.                                                                                                                                                                                                                                             | ****-                          |
| 18 | Small stone from J-10, incised squares (Cp 2&3) to Guat.                                                                                                                                                                                                                                                                       | W-34-9 (Field)                 |
| 19 | Inscribed jamb stone in Str. J-9 (left in position)<br>(1937 - removed & sent to Guatemala.)                                                                                                                                                                                                                                   | ----                           |

Miscellaneous Sculptured Stones or Fragments.

No. 1 Fragment (about one-half) of small drum-shaped stone (altar?) found in or under floor of rear chamber of Structure O-13, with part of Initial Series on the side (Heretofore referred to as "Fragment A", also as "Fragment 1"). *Cat. No. L-16-81*

~~No. 2 A small slab from Structure J-10, with incised roughly parallel lines crossing each other, presumably marking out glyph-blocks.~~

No. 2 A small slab from Structure J-10, with incised roughly parallel lines crossing each other, presumably marking out glyph-blocks.

No. 3 A similar slab from Structure J-12, with similar incised lines and several unfinished glyphs in the squares thus marked out.

No. 4 The southerly drum-shaped "marker" of the South Group Ball Court, Structure R-11.

No. 5 The northerly "marker" of Structure R-11.

No. 6 A small slab (like Nos. 2 and 3 probably used as building material) from Structure J-23, bearing a relatively crude incised out-line drawing of an animal, possibly a deer. *Cat. No. L-16-974 (CU 6-5)*

No. 7 The small "altar" leg photographed by Maler (Plate XI), now in Peabody Museum, Cambridge - probably from a throne similar to Throne 1.

Structure R-11-a

~~No. 8 Central stone in main sloping wall, South Group Ball Court,~~

~~No. 9 Roughly cylindrical carved stone at center, between Stelae 34 and 35, front of Structure R-5, South Group Court. (Altar 6 on Ricketson's map - "Sacrificial Column" referred to by Maler.)~~

No. 8 - "Stalch Block" from Room 2, Str. I-6.

No. 9 - Fragment of sculptured slab, Str. K-6-a (wall) - ("Throne 2").

No. 10 - "Center of upper vert. wall, Str. K-6-b. *Cat. No. L-3908*

No. 11 - Sculptured fragment from fill under structural floor of Str. R-3-39 (i.e. Period 3-6)

No. 12 - Probably fragment of lintel 7. From front slope, over supposed (SEly) edge of stairway - that is about 3.00 SE of front-rear axis of mound - and about over the narrow "terrace" between the two masks, about 1.50 above top of the lower one about 3.10 higher than stela terrace; found close to surface. Certainly not from a left (NW) lintel, but might be from a center one. Dimensions indicate Lintel 8

No. 13 - Fragment from J-29 (1934 notes)

No. 14 - " " " J-9 (1935).

No. 15 - " " " J-5 (1935).

1931 No. 16 - "Stela fragment" from O-13.

No. 17 - Fragment slab from debris of O-13. *Cat. No. L-16-974 (CU 6-5)*  
(OVER)

1964 photo

1964 photo  
1931 >

after 1932 = 1933  
1964 photo

M.S.S. 18 - Small stone with incised squares - from J-10  
debris, 1936 (exact position unknown. Almost  
certainly used in walls, vault or piers of late period.

M.S.S. 19 - Inscribed jamb stone in Str. I-9.

and 1964

MSS 20 Incised slab L-70-307 (E-52-10) Str. P-7  
19 x 9.7 x 11 cms

grid; grid started on other side(?)

MSS 21 Incised slab - 2 glyphs, random  
cuttings

L-70-309 (W-30.6)

1964  
photo

1964  
photo

Name of Monument or Object	Maximum Dimensions	where Found	Catalogue Specimen Number	What Year Found	By Whom Found	Remarks if any	If Any Other Seal	
Stela 44	156 cm x 66 cm x 21 cm	R-3	None	1932	David W. Amram, Jr.	Plain		
Stela 45	192 cm x 40 cm x 17 cm	R-11-a	None	1932	L. Satterthwaite, Jr.	Glyphs only--if a stela, re-used		
Lintel 8	74 cm x 71 cm (high) x 13 cm	O-18	None	1931	"	Re-used as common wall stone--probably was vertical panel	Left at site	
Lintel 9	Failed to measure length of side of sides: x 13 cm thick	O-18	Field No. M-16-1	1931	"	" "	to Guatemala (?) 1931	
Lintel 10	Failed to measure length of sides: x 10 cm thick	V-18	Field No. SE- 1-22	1931	"	" "	to Guatemala (?) (1931).	
Lintel 11	163 cm x 82 cm x 21 cm	R-3	None	1932	David W. Amram, Jr.	Incomplete--8 fragments found in doorway	Left at site	
Lintel 12	120 cm x 55 cm x 23 cm	O-13	L-27-198	1932	J. Alden Mason	Re-used as common wall stones--probably vertical panel	Phila.	
Lintel 13	20 cm x 44 cm (width) x 13 cm	J-1	None	1932	Fred P. Parris	Probably reused in stairway--probably was vertical panel	Left at site.	
There is no Lintel 13--We once assigned this to Malers Stela 29, but changed back--see correspondence								
Mis. Sculp. S. 9 ("Throne 2")	65 cm x 46 cm x 12 cm	K-6-a	Field No. W-7-4	1933	L. Satterthwaite, Jr.	Re-used as common wall stone.		
Mis. Sculp S. 4	Dia. 53 cms, Thickness 18 cms ±	R-11	None left in place	1931	J. Alden Mason	} Ball Court		
Mis. Sculp S. 5	Dia. 51 cm, thickness 25 cms ±	R-11	None left in place	1931	Karl Ruppert		} "Markers"	
Shell Plaque 1	73 cm x 35 cm	Vault in J-5	Field No. W-17-42	1932	L. Satterthwaite, Jr.	} From Burial No. 5, } in vault below } floor of Structure J-5; } found with many other } perforated shell } plaques.		
Shell Plaque 2	86 cm x 69 cm	Vault in J-5	L-27-41	1932	"			
Shell Plaque 3	71 cm x 35 cm	"	Field No. W-17-42	1932	"			
Shell Plaque 4	74 cm x 38 cm	"	L-27-42	1932	"			

Data on  
 Inscribed Monuments  
 and objects.

As supplied to  
 Morley, 1935

1001  
 1002  
 1003  
 1004  
 1005  
 1006  
 1007  
 1008  
 1009  
 1010  
 1011  
 1012  
 1013  
 1014  
 1015  
 1016  
 1017  
 1018  
 1019  
 1020

Label	Dimensions	Material	Notes
Label 1	100 cm x 50 cm x 20 cm	Stone	
Label 2	100 cm x 50 cm x 20 cm	Stone	
Label 3	100 cm x 50 cm x 20 cm	Stone	
Label 4	100 cm x 50 cm x 20 cm	Stone	
Label 5	100 cm x 50 cm x 20 cm	Stone	
Label 6	100 cm x 50 cm x 20 cm	Stone	
Label 7	100 cm x 50 cm x 20 cm	Stone	
Label 8	100 cm x 50 cm x 20 cm	Stone	
Label 9	100 cm x 50 cm x 20 cm	Stone	
Label 10	100 cm x 50 cm x 20 cm	Stone	
Label 11	100 cm x 50 cm x 20 cm	Stone	
Label 12	100 cm x 50 cm x 20 cm	Stone	
Label 13	100 cm x 50 cm x 20 cm	Stone	
Label 14	100 cm x 50 cm x 20 cm	Stone	
Label 15	100 cm x 50 cm x 20 cm	Stone	
Label 16	100 cm x 50 cm x 20 cm	Stone	
Label 17	100 cm x 50 cm x 20 cm	Stone	
Label 18	100 cm x 50 cm x 20 cm	Stone	
Label 19	100 cm x 50 cm x 20 cm	Stone	
Label 20	100 cm x 50 cm x 20 cm	Stone	

See print list of MSS 1 to 21 (1964)

Name of Object	Maximum Dimensions	Where Found	Catalogue Number	Year Found	By Whom Found	Remarks
Mis. Sculp. S. 1	("Fragment 1")	O-13	L-16-81 E-1-31	1931	J. Alden Mason	Portable altar, with Initial Series Photo 32-194
" "	2 Approx 45cm x 20cm x 8cm - 200mm Photo 32-151	J-10	None	1932	L. Satterthwaite, Jr.	Incised outlines for glyphs--no carving of glyphs. Probably used as wall stone Photo 3
" "	3 45 x 46 x 7 (Catalogue, Mus) 45 cm x 45 cm x 6 cm (4 x 5 = Bulb Ground marker)	J-12-40	L-16-840 W-2-20	1931	L. Satterthwaite, Jr.	Incised outlines for glyphs, several glyphs started--used face up, as building stone on plinth 445-005 site Photo
" "	6 8 cms thick	J-23	L-16-474 (4-6-5) 974	1931	L. Satterthwaite, Jr.	Incised quadruped, possibly deer--used as building stone Photo
" "	7 Leg at Peabody (See Maler)		none			From a throne? Hand.
" "	18 Small	J-6 X (S-12-31) (W-12-31)	L-39-240 (W-12-31)	1933	"	Incised drawings, crude, unfinished Photo
" "	10 140 cms (as restored) x 70 cm x 10 cm	K-6-b	L-39-239 (W-7-9)	1933	"	Two figures, probably ball players dancing; no glyphs. Photo
" "	11 15 cm x 10 x 9 cm thick	R-3-3d	L-39-241 S-2-51	1933	"	Small carved fragment. Photo
" "	12 26 cm x 22 cm x 4 cm. See notes	K-5	None	1933	"	Glyphs--probably part of Lintel 7 Split off - came from wall edg, facing stone. Left with lintel no PV
" "	13 See letter	J-29	Field No. NE-4-13	1934	"	Vertical panel, re-used as wall and fill stones. To quadruped
Jade Jaguar Head	82 cm x 15 cm thick	Burial 5 in Str. J-5	L-27-19	1932	"	Worn on back?
Fragments of six or more sting-ray spines, inscribed with glyphs	Various broken lengths	Burial No. 5 in Str. J-5	L-27-46	1932	"	Undecipherable, broken and fragmentary--found with many plain ones.

Memorandum re Proposed Monument Designations  
October 29, 1932.

Stelae.

Fragments of st. 14 = L-16-382  
12 = L-27-171  
13 = L-27-177  
14 = L-16-382  
40 = L-27-168

Nos. 1 to 42 as numbered by Maler and Morley.\*

No. 43 Right (southwesterly) facing Slab of right shoulder of megalithic stairway, Structure J-1. Identified and number suggested by Morley.

No. 44 Plain Stela, from left (northwesterly) slope of Structure R-3.

<sup>45</sup>  
\*\* No. 45/From inner (southeasterly) main sloping wall of Structure R-11-a.

~~\*\* No. 49 Maler's "Alter 6", front of Structure R-5.~~

No. 46 - Maler's "sacrificial stno" - center of R-5 Stelae.

\*\*See discussion on attached sheet.

\*Except Maler's Stela 29, which is renumbered Lintel 14"

Altars.

alt. 4 leg = L-27-200

Nos. 1 to 5 as numbered by Maler.

Lintels. (Sculptured)

L.3 = Cor No. L-16-81 (?)

Nos. 1 to 6 as numbered by Maler.

No. 7 From central doorway, Structure K-5 (upper and latest temple), left at P.N.

No. 8 Fragment (probably about one-half), used as building material in Structure O-18, near southeasterly corner. Shows badly eroded table-altar with tapering legs - more probably a throne. Heretofore referred to as "Throne Lintel". Left at P.N.  
has been

No. 9 From same part of Structure O-18, buried in fill. Upper right corner only, bearing well-preserved glyphs.

No. 10 From rear wall of substructure of Structure V-1 (latest building), there used as building material. Lower right corner only, bearing glyphs fairly well preserved.

No. 11 Seven principal fragments (less than all) recovered in right (southeasterly) supposed doorway of supposed temple at top of Structure R-3. Left at P.N.

No. 12 Two pieces (forming nearly complete whole) found re-used as building material in Structure O-13 (upper and latest building). Right half found in position in right (northwesterly) buttress at rear of front gallery, its re-use being contemporary with the erection of the gallery, or later. The gallery may be later than the rest of the temple. (sculptured) Cor No. L-27-198

No. 13 Two principal fragments, found at base of megalithic stairway, Structure J-1. Probably re-used in upper flight.

X  
insitu  
L  
left in situ



M.S.S. 10 6 Fragments joined in plaster reconstruction : 1.43 x .70 x .10 M - .2 T (rough estimate of weight).

NB. This piece has not be exhibited; is unsuitable for exhibition without special lighting because of poor condition, low relief and missing parts

Note: The foregoing 10 items exhaust the list of pieces which present serious problems in the way of spcial packing, because of size and/or weight; and which require forethought in planning an exhibition hall. Miscellaneous Sculptured Stones 16 and 10, and Lintels 3 and 12 can be supported on strong walls; Throne 1 requires special light construction, not because of its weight, but because of its form.

1 and 2 are

Lintels ~~at~~ at Harvard; ~~Lintels 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100~~ "Lintels", in many cases single small frgments, are at present distributed as follows:

Left at the Site: Lintels 6, 7, 8, 11, 13, 5, ~~12~~ (13 is highest "Lintel" number.  
 At Guatemala City: Lintels 9, 10 (small fragments); Lintel 4  
 At Phila. Lintels 3 and 12

Miscellaneous Sculptured Stones include mere incising. Those of any exhibition value are Nos. 1, 16 and possibly 10 at Phila; 9 and 13 at Guatemala; and 7 at Harvard (the latter is the "Altar leg" shown by Maler, which we assigned a number in this series. Nos. 10 and 16 are covered above; No. 1 is half of a small portable altar, with an I.S. inscription. These numbered pieces are at present distributed as follows:

and 19 (highest MSS number)

Left at Site: M.S.S. No. 2(?); 4, 5, 12, 15(?). Questioned items to be checked.  
 At Guatemala City: Nos. 9 and 13; 18  
 At Harvard: No. 7

At Phila: No. 1 (part of portable altar, with I.S. inscription on side).  
 No. 3 rough slab, incised lines, unfinished glyphs in several squares  
 No. 6 " " , incised animal head (crude)  
 No. 8 " " , incised lines and scratches  
 No. 10 see above  
 No. 11 small fragment, possibly was sculptured  
 No. 14 rough slab, parts of three incised glyphs.  
 No. 16 see above, with No. 17.

...

General Note: I have given approximate dimensions of the separate parts of the four stelae, using maximum lengths; if totaled, these may exceed the total length of all pieces fitted; usually, different widths and thicknesses of different fragments of the same stone are not allowed for, the maximum being used. The stelae can be taken down and shipped without taking apart. This will save a great deal of labor at the other end and will minimize danger of damage by an inexperienced rigger. The necessary timbers and bolts will greatly add to widths and thicknesses, not much to lengths, of the units to be handled - and to their weights. The contract price for doing this - exclusive of freight and re-erection - was \$750.00, when they were sent to San Francisco.

Approximate Dimensions (In meters) and Weights (in tons @ 2000 Lbs.)

Note: measurements are approximate, a few cms. over rather than under; and do not reflect non-rectangularities. The estimates of weight were obtained by calculating cubic meters of stone and converting to tons with the constant 2.97 (tons per cubic meter); this is derived from Trautwine's 168 Lbs. per cubic foot; and with 35.3156 cub. feet per cubic meter (Trautwine, 20th Ed. 1922, p p 213; 225).

	<u>Total</u>	<u>Parts</u>
<u>Stela 13</u> (L-27-199)	1.85 x .90 x .35 M. 1.67 T ✓	Top .90 x .90 x .35 M <del>Back</del> .84 T ✓ Bot. .80 x 1.00 x .35 M .83 T ✓
<u>Stela 14</u> (L-16-382)	2.18 x .85 x .40 M 2.97 T ✓	Top 2.15 x .85 x .40 M 2.17 T ✓ Bot .80 x .85 x .40 M .80 T ✓
<u>Stela 12</u>	3.10 x 1.05 x .40 M 3.99 T ✓	Top 1.50 x 1.05 x .40 M 1.87 T ✓ Bot* 1.70 x 1.05 x .40 M 2.12 T ✓ *3 fragments joined
<u>Stela 40</u> (L-27-168)	4.20 x 1.20 x .40 M 6.26 T ✓ or 4.90 x 1.20 x .40 M* 7.01 T* ✓	Top 2.70 x 1.20 x .40 M 3.84 T ✓ Bot 1.70 x 1.20 x .40 M 2.42 T ✓ Butt .70 x .90 x .40 M .75 T ✓
	*including part of plain butt which was buried - omitted as set up in Phila.	
<u>Alzar 4 Leg</u> (L-27-200)	.75 x .45 x .48 M .48 T ✓	(one piece - almost identical with three legs already in Guatemala City)
<u>Lintel 3</u> (L-16-381)	1.25 x .65 x .13 M .31 T ✓	(three fragments joined, with a fourth "filler" frag. of unsculptured stone - should not be taken apart).
<u>Lintel 12</u> ( )	1.20 x .55 x .25 M .49 T ✓	(two frgments, joined)
<u>Throne 1</u> Throne 1	Screen (Frgs., joined) : 1.80 x .60 x .15 M - .48 T ✓ Seat (or "table top") : 1.80 x .90 x .15 M (fragments and reconstruction in plaster) - .19 T ✓ Legs (two); eagg : .60 x .29 x .15 M - .02 T each. ✓ Total weight, about .96 T	
<u>M.S.S. 16</u> <sup>17</sup> (L-79-204) & 17	Two frags. joined : .80 x .62 x .11 M - .05 T ✓	

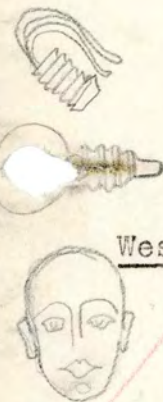
Manley Year Book #28, p. 327. (1928-9).

Sbla 15 -	9.17.15.0.0	J.S.	(note - same as throne.)
33 -	9.10.10.0.0	J.S.	
albi 3 -	9.19.0.0.0	J.S.	
" 4 -	9.18.0.0.0	J.S.	
Scl 18	9.17.5.0.0	P. E.	End
Scl 23	9.14.15.0.0	J.S.	"corrects earlier reading"
albi 1	10.0.0.0.0	P.E.	(probably).

Piedras Negras : Stelae dates.

*Pictated from  
memory by Dr. Morley, 1931.*

South Groups	31	9-5-0-0-0	} Intaglio glyphs ( One or the other - stylistic basis <del>xxxxxx</del>
	42)	10-0-0-0	
	25)	15-0-0-0	
		9-6- 0-0-0	
		5-0-0-0	
		10-0-0-0	
		15-0-0-0	
		9-7- 0-0-0	
		5-0-0-0	
		10-0-0-0	
		15-0-0-0	
		9-8- 5-0-0	
		10-0-0-0	
	26	15-0-0-0	( first of Buddha series ) single stela.
	28	9-9- 0-0-0	( ? - based on provenience - large pyramid, /
	24	5-0-0-0	( based on provenience )
	25	10-0-0-0	" "
	27	15-0-0-0	" "
	41	9-10-0-0-0	( " " - only one for the pyramid)
	30	5-0-0-0	( intaglio - same style as 43 - later? )
	33	10-0-0-0	
	32	15-0-0-0	
	34	9-11- 0-0-0	
		5-0-0-0	
Sacr. Col.	35	10-0-0-0	
	36	15-0-0-0	
	37	9-12- 0-0-0	
	39	5-0-0-0	
West Group	38	10-0-0-0	
	6	15-0-0-0	( 2nd. of Buddha series )
	8	9-13- 0-0-0	
	2	5-0-0-0	
	4	10-0-0-0	
	1	15-0-0-0	
	3	9-14- 0-0-0	
	5	5-0-0-0	
	7	10-0-0-0	
East Group	23	15-0-0-0	
West Group	10	9-15- 0-0-0	
	11	5-0-0-0	( 3d. of Buddha series)
	9	10-0-0-0	
	40	15-0-0-0	
Alter	2.	9-16- 0-0-0	
East Group	22	5-0-0-0	
	17	10-0-0-0	
	16	15-0-0-0	
	13	9-17- 0-0-0	
	19	5-0-0-0	
		10-0-0-0	
	15	15-0-0-0	
Alter	4.	9-18- 0-0-0	
	12	5-0-0-0	
	14	10-0-0-0	( 4th. of Buddha series)
	20 (?)	15-0-0-0	
Alter 3	3.	9-19- 0-0-0	
		5-0-0-0	
		10-0-0-0	
		15-0-0-0	



*which is which?*

*10,0-0-0-0 ?  
(9-10-0-0-0 Alter 1 west group )*

Lintles - continued.

No. 14 Maler's "Stela 29", now renumbered as a lintel - removed from top of Structure R-3 by Maler - same style glyphs as Lintel 11, indications that he dug it from northwesterly doorway of same Structure.

(back to stela 29).

Thorne 1 = L-27-170

Controlling principles in making  
the foregoing suggested designations.

Where future work is contemplated, an ideal system would not apply a functional term, such as "stela" or "Lintel" to any given monument unless the use of that monument, as indicated by the term assigned, was definitely established.

Our "Miscellaneous" group is intended to include small pieces or objects which turn up but which are not sufficiently important to merit a separate series of numbers; and also, fragments and complete pieces for which a use or function cannot be assigned when found. It serves to identify them at once. If, for instance, we later discover another throne (Throne 2) and can establish that No. 7 of this group was part of it, this piece will become a part of Throne 2 and No. 7 in this group will be left vacant. The number, 7 in this case, is thus temporary or permanent as the final results determine, and the series of altar and throne numbers, the designations of which are descriptive and so misleading unless they are correct, is kept intact.

We have some doubts about the actual function of some of the "Lintels" and "Stelae" - Lintels 5 and 12, and Stelae 20 and 21, for example. We cannot apply the same reasoning here, because we are bound by already published designations. The principle already established there is to call what appears to be a stela a stela, and what may have been a lintel a lintel. For example, if Lintel 5 was a lintel, then Lintel 12 probably was also. They belong in the same series and we therefore add to the old series, in this case not because we are sure we should, but because we are not sure we should not.

For the same reason we have added Stela 45. The slightly rounded top, the perfectly smoothed sides and back, are difficult to understand if it was made for the position in which it was found (See photo 32-S-117); but these, plus the certain evidence that nearly all if not all the front face was sculptured with archaic glyphs in double-column, make it comprehensible as a small early stela (Class 1 at Copan), here re-used. So far as the stone itself is concerned, it belongs in the same series as Stela 32, which is not so much larger.

We have violated the principle of using already published designations in the case of ~~xxxx~~ Stela 46 (Maler's Altar 6). Our excuse is that it was almost certainly a stela, no photograph has been published and the references are very slight. Possibly we are wrong in doing this, especially as we did not fit the two pieces (one of which seems to have been heretofore unknown) and so prove our point beyond question. We therefore especially invite comment on this particular designation, though we would like to have it on all.

December 6: Final decisions on Stelae 29 (formerly Morley's "Altar 6") and Lintel 14 (formerly Maler's "Stela 29") and on Stela 45 made per Morley's final advice in letter to J.A.M. dated Nov. 28, 1932.

Piedras Negras: List of Lintels & their  
numeration, as agreed with Dr. Morely, Nov. 23, 1932.

No.

- 1 - Peabody, lower right corner.
- 2 - Peabody.
3. - University of Penna. Museum.
4. - To go to Guatemala - South Group - captives & warriors.
5. - Badly broken & eroded - from Structure XLIII (not used there as a lintel).
6. - Used as a table in the monteria - incised line design (see Maler)

(all the above follow Maler's numeration, and he found all but 3, for which he allowed.)

7. - Heavy lintel from Structure XLII, complete, more or less, but badly split and shattered, much of design & glyphs lost.
8. - "Throne Lintel" (from surface of Structure XXXIII - probably left half or so - badly eroded design, table altar with tapering legs, probably figure on table, possibly figures along lower margin, possibly similar to 3; much smaller than any of lintels 1 to 7.
9. - Upper right corner (well preserved glyphs) buried in fill of Structure XXXIII, not far from 8. - small.
10. - Lower right corner, used in wall or fill just behind in rear wing of Mound 1 of Group LXII, South-east section (present provisional numeration) - well preserved glyphs; small lintel, like 8 and 9.

Islets - agreed with Moley, Nov 23, 1931

No 1 - Peabody - Lamer at corner.

2

3 - U of P

4 - for Guatemala (S. Group - Coplan & vanin.)

5 - Moler found (Stn. 43 -

6 - Moler, ex. (DB)

7 - New U. of Pa. - Stn. \_\_\_\_\_

8 - "Thames limited" (sample.) Stn. \_\_\_\_\_

9 - Upper Right Corner (well preserved - buried in fill.) (

10 - S.E. Sect Stn. (Lamer Pt. Corner,)

A2 = ? Kin 5 Clinals

B2 = Soc. Series: terminal date indicator

A3 = ? Kan, Muluc, Ex or Canac.

B3 = 7 Ceh. (certain).

9. A1: 11 Kin 15 Clinals

B1 10 Tuns

A2 Soc. Series: terminal date indicator

B2a 11, 12 or 13 Ben.

B2b 1, 6, 11 or 16 Kayob

(read reading)

Main tables out  
to new temp  
book, Dec. 1960

Arch. Tables

Platforms

1949 Meas. Chart.

Final checked: use for publication.

Non Vaulted Bldgs - Palaces.

	Plinth Depths	Plinth exposures		Building Depth	Compound Bldg Port. Depth	Subj. Plnt. Form. depth
		Front	Rear			
R-7-b	6.85 7.25 <i>shrinkage toward plinth 60 cm.</i>	1.5±	1.5±	6.75		
R-7-a						
S-17	3.95	.10	.00*	3.85	5.15	
			<i>Chesson Plan shows none</i>			
S-18-1st A	4.33 min.	.08	.08*	4.17	6.01 5.33 6.01 min	
					coll 4.20	
S-18-1st A	"			"	6.01	
S-20-2nd	? (narrow?)	?	?			
S-20-1st	narrow? ?	?	?	7.75	?	
S-12-1st				7.85		

Buildings

1949.

Nm-V. Palaces

W	R	M	R'	W'	Minimum Wall-Scan Index	Pier width	Doorway width	See own
Fund wall or Pier thickness			(mean)					
← .95	7.95	.95	1.95	.95	49%	.95	1.70	280)950 (30) 810 10
					1.95)950 (49) 780 170 175			58% 1.70)950 (56) 850 1000 1020
							1.07	1.90)950 (50) 95
.65	2.55	-	-	.65	25%	1.05	1.65	64% 2.55)650 (25) 510 1400 1275 125
								165)1050 (63) 990 = 64 600 495 1054
.87	2.43	-	-	.87	36%	1.60	1.50	107% 2.43)870 (35) 729 1410 1215 195
"	"			"				150)160 (106) 1500 1000 900 100
.95	2.45	.95	2.45*	.95*	39%	?	?	(3) ?
					2.45)950 (38) 735 2150 1960 190			
1.05	2.28	1.15	2.28	1.15	43%	1.25	1.75	71% 2.28)1050 (46) 940 1100 160
					2.28)1050 (46) 940 1100 160			125)1250 (71) 1225 250 125

0-18-5km 3.15 m (1 meas) Pm. 95.5km  
95 | 3150 | 3  
   55  
   ---  
   3150

315 | 95.0 | 300  
   94.5  
   ---  
   .5

370 | 95.0 | 257.262  
   74.0  
   ---  
   21.00  
   1550  
   250

1949  
Final  
check-up

V. S. Han Ludres  
Pueblo-Rancho Park  
ST I-12

main galleys

Scaling  
TAP Plan  
Front on  
Count.

W	R	M	R'	V'	
1.00	2.30	1.10	2.30	1.00	l/O end pic
1.00	2.30	1.15	2.30	.95	center
1.10	2.25	1.15	2.25	1.00	right end
1.05	2.28	1.13	2.28	.98	
1.05 av.	2.28 av.	1.13 av.	2.28 av.	.98 av.	

$3 \overline{) 6.85} \left( 2.28 \right)$   
 $3 \overline{) 3.40} \left( 1.13 \right)$   
 $3 \overline{) 6.85} \left( 2.28 \right)$   
 $3 \overline{) 2.95} \left( .98 \right)$

(triple thickness  
than basis,  
consistently,  
load probably  
not identical).

$2.28 \overline{) 1.0500} \quad (146\%)$   
 $\underline{912}$   
 $1380$   
 $\underline{1368}$

$2.28 \overline{) .9800} \quad (43\%)$   
 $\underline{912}$   
 $680$   
 $\underline{684}$

End Rooms

	Left (SO)	Room		Right (NW)
from front	.98	2.25	1.05	2.55
no room	1.00			
	1.05		1.05	
	1.00	2.29	1.05	2.55
	4.03	4.54		
		(2.27)		
av =	1.01		1.05	2.55

$2.27 \overline{) 1.0100} \quad (44\%)$   
 $\underline{908}$   
 $1020$   
 $\underline{1008}$

$2.55 \overline{) 1.0500} \quad (41\%)$   
 $\underline{1020}$   
 $300$

Corners

TERRACES

Outsets?

Stwy.

Pyramids - Style.

P.N. Pyramids - Styl<sup>ic</sup> Details

	Round	Inset	Abstr. Moldings	Basal Moldings	Front (0,1,2)	Sides (0,1,2)	Peak (0,1,2)	Standard Steps?	Widen top tread?	Balustrade?	"Block"?
J-3	?	?	?	*?	?	?	?	x	?	x(2)	x(?)
J-4	x	x	x	x	1	2	?	?	?	?	?
K-5-1-a	x	x	x	ab	2	2	ab?	x	?	ab	<del>ab?</del> <sup>1,2</sup>
-b	x	x	*	ab	2	2	ab?	x	?	ab	<del>ab?</del> <sup>1,2</sup>
-c	x	x	x	ab	2	2	1 or 2 <sup>3</sup>	x	?	ab	<del>ab?</del> <sup>1,2</sup>
K-5-2 <sup>nd</sup>	x	x	x	ab	2	2	1	x	x	ab	ab
K-5-3 <sup>d</sup>	x	x	x	ab	2	2	1 or 2 <sup>3</sup>	x	x	ab	ab
R-1-1 <sup>st</sup>	x	x(?) <sup>5</sup>	x	ab	1 <sup>4</sup>	?	?	x?	?	?	x(?)
R-3-1 <sup>st</sup>	x	x	x	ab	1	2	?	?	?	?	?
R-3-2 <sup>nd</sup>	x	x	x	ab	1	2	?	?	?	?	?
R-4											
R-5											
R-9											
R-10											
R-16a											
-b											
J-29											
O-12											
O-13											

Stucco Dec.			Subst. Dec.	
Masks at side of stwy.	Low relief near doorway?	Other masks?	Panels	
	x?		L.5	
ab	?		<del>ab?</del>	
x	x	ab	L.7	
x	x	ab	L.7	
ab	ab	ab	ab	
ab	?	ab	ab	
ab	?	ab	ab	
x	x	?	X (masks?)	
ab	?	ab	ab	
ab	?	ab	?	

Notes.

1. Block postulated because panel present

2. <sup>Block or blocks</sup> ~~Block~~ postulated on Subpl. Platform

3. Excavation did not reach expected position of 2<sup>nd</sup> outset.

4. Inset by mask <sup>panels</sup> at front; side facing destroyed.

5. Front outset equals mask panel.

R.N. Pyramids Dimensions and Proportions.

(Tumbles  
co)

J-3

J-4

K-5-1-a

-b

-c

K-5-2<sup>nd</sup>

K-5-3<sup>d</sup>

R-1-~~1~~

R-3-1<sup>st</sup>

R-3-2<sup>nd</sup>

R-4

R-5

R-9

R-10

R-16-a

-b

(~~of~~ ~~up~~)

J-29

O-12

O-13

Base

Pyramids <sup>average</sup> - Dimensions + Proportions

Depth<sup>x</sup> Length<sup>x</sup> Height D. H-L incl. P-L incl. Stay width. Ascend <sup>pt of</sup> angle. Temple temple temple temple Abon Mouth Stun  
Batter Height width H.W incl. incl. center?

Excelsions

S + w

x at base

# Stylistic Details.

Sty. - Balustrades?  
Top step wider?  
Blocks?

## Terraces.

Corners - Round  
- inset  
- Open moldings?

## Front

1 outset >  
2 " ?

Sides 2 " ?

Rear 2 " ?

MOSICS

Other

	<u>Walls</u>			<u>Rms</u>		<u>Index</u>	
	<u>front</u>	<u>mid</u>	<u>Rear</u>	<u>fr.</u>	<u>Rear</u>	<u>front</u>	<u>Rear</u>
J-2-2 <sup>nd</sup>	75??	75	75?	1.90??	55	39%	(?) or higher.
S-7-Sub.	.71	90	same?	1.50	1.55	48%	

Wall Span  
Indices  
Final checkups, 1999

J-9: Galleries  
scaling TAP Plan  
Front: Rear:

End Rooms  
Right (SW) Left (NE)  
2.20 near end 2.05 (near end)  
2.15 toward end 2.00 (center) + pend end  
2 | 4.35 | 2.18 span 2 | 4.05 | 2.03 span  
1.15 1.15  
1.15 1.15  
1.15 1.15  
1.15 1.15  
1.15 outer wall.

2.18 | 1.1500 | 52% 2.03 | 1.150 | 51% = 52%  
10200 1015  
600 350  
436 203  
164 147

52% index (average)  
for end rooms.

Gallerie Sections

meas. scaled  
+ new TAP  
plan, add  
to right

W	R	M	R'	W'	
1.18	1.60	1.15	1.68	1.20	exp end
<del>1.20</del>					
1.20 left side } 1.20 right side }	1.67	1.18	1.75	1.20	center

1.18  
1.60  
1.15  
1.08  
1.20  
6.81

1.20	1.62	1.08	1.70	1.20 (2 sides) right end.
4   4.78   1.19	2   4.89   1.63	3   3.41   1.13	3   5.13   1.73	1.20 av.
= 1.20 av.	1.63 av.	1.13 av.	1.73 av.	1.20 av.

1.63 | 1.2000 | 73% = 74%  
78  
1141  
590  
489  
101

1.73 | 1.2000 | 68%  
1038  
1620  
1384  
286  
1557  
63

Acropolis Palaces - "Front" and "Rear"

The Acropolis as a whole clearly belongs with the West Group plaza. Just as clearly its three principal numbered courts, and the minor court of Str. J-17 involve adaptations to the original contours of a high hill.

The complex may be visualized as a mis-shapen rectangle facing SW, with its rear to the NE. This conception of it is justified by the lack of major ceremonial structures to the NE, except for the temple Str. J-29 far down the slope.

Since there are individual courts, of course not all Acropolis structures face SW; and the existence of double-range palaces with symmetrical plans complicates the matter of deciding which were front and rear facades of such structures. We have adopted the following as most probably what the Maya would have decided, if required to make the distinction:

	J-2	J-9	J-12	J-11	J-13	J-18	J-21	J-20	J-23
Front:	SW	SW	SE	SW	SW	SW	NE	SW	SW
Front									
Overlooks lower connected architecture	x	X	X			X		X	X
Approached by stairway and/or only axial	X	?	X			?		X	X
Longer/open gallery	X	X		X	X?	X			
Rear prospect partially blocked	X	X	X	X			X		
Rear at rear of Acropolis as a whole						X		X	X

In each case reference is to the earliest phase of the latest known double-range building at the locus. Presumably "-2nd" phases fronted in same directions.

Note that by these criteria the courts are base-surfaces for the rear facades of Strs. J-2, ~~J-9~~ J-9 and J-12 and J-18.

Temples

Functional Details

col altars <sup>seen</sup> Sills Center niches Franklin Carla Ventura, Blocks

Bldgs.

1010

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		Front wall	Med wall	Rear Wall	Front span	rear span	Total width	Frame %																																
1	J-29-A	1.25	-	-	1.70	-		79%	1																															
2		Scale 1.75			Scale 1.65 (TAP clamp)			(201.79")	2																															
3								<u>Lock Plan</u>	4																															
6	O-12	1.05	-	?	1.65	-		64%	6																															
11	K-5-15-B	1.30	-	1.20	2.07			63%	11																															
16	J-4	1.08	-	?	2.05			53%	16																															
21	R-5	1.05	-	?	2.10			50%	21																															
26	O-13	(no data)						?	26																															

1960 Salary

morning  
OK

odd  
1.65 | 1.30  
= 79

F / C  
1.70 | 1.2500 | 73 = 74%  
1190  
600  
510  
90

F / C  
1.65 | 1.0500 | 63 = 64%  
990  
600  
495  
105

F / C  
2.07 | 1.3000 | 62 = 63%  
1242  
580  
414  
166

F / C  
2.05 | 1.0800 | 52 = 53%  
1025  
550  
410  
140

F / C  
2.10 | 1.0500 | 50%  
1050  
00



	①	②	③	④	⑤	⑥	⑦	⑧
	FR	Walls M <sup>2</sup>	ren	F. shen	Ren shen			
	C	D	E	F	G	H	I	
1	J-21-13	.75 (82)	.75 (80)	.75 (80)	2.41 (2.43)	2.41 (2.43)		
6	J-22-(a) (Army)	.70 (72)	-	-	2.18 (2.22)	-		
11	J-22-(b)	.70	-	-	2.30	-		
16	J-18-13	.75	.95	.75	2.55	?		
21	I-11-15-13	.75	.92	.75	2.60	2.60		
26	I 6-19T 12' m1	<del>.75</del> 1.00 .75 .78 .70 .80 3.228 (76) 21/15	-	-	2.00 (1.92 + 0 2.08) 1.960	-		

	①	②	③	④	⑤	⑥	⑦	⑧
	front F/C	rear G/E						
	I	I						
1	31%	31%						
2								
3								
4								
5								
6	32%							
7								
8								
9								
10								
11	30%							
12								
13								
14								
15								
16	29%							
17								
18								
19								
20								
21	29/29							
22								
23								
24								
25								
26	39/-							
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

F1 4 G/E F  
 2.41 | .7500 | 2.41 | 75.0000 31  
 123  
 270  
 241  
 29  
 same

2.18 | .7000 | 32%  
 -654  
 460  
 436  
 24

2.30 | .7000 | 30%  
 690  
 100

F/  
 2.55 | .7500 | 29% ? ?  
 510  
 2400  
 2295  
 105

2.60 | .7500 | 29% same  
 520  
 2300  
 2340

2.00 | .7500 | 33 1/2% = 37 1/2  
 600  
 1500  
 11400  
 100





Analogue's lower axis

Attached by string.

Lower open galley

Rear pocket, partially closed

Rear at rear of crop. as whole

I-2	I-9	I-12	I-11	I-13	I-18	I-21	I-20	I-23
SW	SW	SE			SW		SW	SW
SW?	SW?	SE			SW?		SW	SW
SW	SW		SW	SW	SW			
X	X	X	X		X	X		
				X			X	X

$$\begin{array}{r} 11.17 \\ 11.4 \\ \hline 22.21 \\ 1.18 \\ \hline 23.39 \end{array}$$

$$\begin{array}{r} 11.11 \\ 11.11 \\ \hline 22.22 \\ 1.18 \\ \hline 23.40 \end{array}$$

$$\begin{array}{r} 13.0 \\ 12.20 \\ \hline 25.20 \\ 1.18 \\ \hline 26.38 \end{array}$$

$$\begin{array}{r} 10.180 \\ 1.18 \\ \hline 11.360 \end{array}$$

$$\begin{array}{r} 1.18 \\ 1.18 \\ \hline 2.36 \end{array}$$

$$\begin{array}{r} 1.18 \\ 1.18 \\ \hline 2.36 \end{array}$$

TABLE 3  
JOINT TYPE GAWR  
Piedras Negras Vaults

Vault Table  
(Condensed)  
Oct. 1936  
THE UNIVERSITY MUSEUM  
THE AMERICAN SCHOOL  
OF ORIENTAL RESEARCH

<u>Falaces</u>	<u>Wall</u>	<u>Span</u>	<u>Index*</u>	<u>Remarks</u>
J-9**	1.20 <i>near 1.16</i>	1.73	70*** <i>69 (new)</i>	
J-2**	1.07	1.75	59	
J-13**	.80	1.70	48***	(no piers)
J-8	<del>1.07</del> .76	1.60	47***	
J-6-2nd	1.15	2.44	47	(as reconstructed)
J-6 Room 3	.93	2.15	43	(built against J-6-2nd)
J-6 Room 1	.78	2.00	39	(built over and against J-6-2nd)
J-21*	.75	2.41	31***	
J-22-a	.70	2.18	32***	(built against J-21)
J-22-b	.70	2.30	30***	
J-18**	.75	2.55	29	
J-11**	.75	2.60	29	(T-shaped piers)
<hr/>				
J-23**	.70	1.40	50	(Heavy comb ? )
J-10-1st	.60	1.95	31*** 40	(lack of space ? ) ?
J-10-2nd	?	?	? ?	(largely destroyed)
J-2 Room 6	.50	1.85	30 ✓	(lack of space ? )
<hr/>				
<u>Pyramid Temples</u>				
O-13	?	?	?	(study incomplete)
J-29 (Phases B&C)	1.16	1.75	66	(no piers)
J-29 (Phase A)	1.25	1.70	74	(built over Phase B)
O-12	1.05	1.65	64***	
K-5-1st	1.21	2.17	56	
J-4	1.08	2.05	53	
R-5	1.05	2.10	50***	

see "Sheet X",  
and connection  
sheets of that  
(yellow)  
25 1973

\*The order within each group is believed to be approximately chronological except for palace units between lines.

\*\*Double range, index covers main galleries.

\*\*\* Excavation incomplete, index subject to correction.

SIV

W R M R' W' C D E A

1973,  
LS

1	R-1	0.97	1.55	--	--	61%	IR2
2	R-3	1.30	1.55?	--	--	84%?	IR
3	R-9	1.25	1.70	--	--	74%	IR
4	R10	1.15	2.35??			40%??	IR
5	R16	1.20?	2.10?	--	--	59%	IR

(R1)  $1.55 \overline{) 0.970} \text{ (60)} = 61\%$

(R-3)  $1.55 \overline{) 1.300} \text{ (84\%)} = 84\%$

$1.55 \overline{) 1.250} \text{ (73\%)} = 73\%$

(R9)

$1.70 \overline{) 1.250} \text{ (73\%)} = 73\%$

(R10) notes not in place.  
LS big drawing scales

W = 0.95  
R = 2.35  $2.35 \overline{) 0.950} \text{ (40\%)} = 40\%$   
W' = 0.95

"x" has given 1.15 for W,  
nothing else.

Dubious dimensions.

R16 scaling by drawing

$2.10 \overline{) 1.250} \text{ (59\%)} = 59\%$

Dubious

246

$2.70$   
 $28$   
 $2.98$   
 $- 1.25$   
 $1.73$

LS 1973

File in P.V. B.I. 81

Mm - vasil-d  
P.V. Tarkenton  
Endorse

Oversized item not scanned

as in published  
Dimension Tables

1936 ???  
clearly not  
final.  
worksheets not  
surely found

Key to Tables 1, 2, 3, 4, & 5.

- A Structure No.
- B Type of Substructure.
- C Wall thickness - front
- M D " " -medial if any
- W E " " -rear if free-standing.
- R F. Room width - front; equals span if vaulted.
- R G. " " - rear ; " " " "
- H. Total width of building above plinth; equals sum of Cols. C to G.
- I. Per centage on cross-section occupied by walls; equals sum of Columns C to E divided by Column H, to nearest percent.
- J. Ratio of front wall thickness to front room width; equals Col. C divided by Col. F, to nearest per cent.
- K. Ratio of rear wall thickness to rear room width; equals Col. E divided by Col. G, to nearest per cent.
- L. Maximum depth of debris on floor of room where section is taken; usually the front room; maximum usually is at rear of room.
- M. Minimum depth of debris on above floor, within inner side of front wall; minimum usually at front of room.
- N. Average depth of debris; equals average of Columns L and M.
- O. Answer to question: "Was there a profusion of stone slabs in debris on the floor?"
- P. Was there positive independent evidence of stone vaulting on building?
- Q. General location: West Group, Acropolis within West Group, East Group, South Group, or Southeast Section.  
Dates
- R. Carved on supposed lintels and a throne associated with building; readings according to Morley.

statement

Notes: (x) indicates no ~~read~~ because feature is absent in building.  
 (?) indicates no statement because feature is fallen, or note was not recorded; except in case of J-6-2nd (b) where it expresses doubt of the actual existence of a vault at the point under consideration.  
 (\*) indicates an approximate figure, based on photographs, inference from known facts, &c.



700129  
1, 2 + 3

Table 1 : Double-range Buildings.

FWD  $\frac{1}{4}$  VAULTED Walls  $\frac{1}{4}$  Spans  $\frac{1}{4}$  Per Cents

*all walls 90*  
*chuck ok*  
*Ratio of middle wall to room width*

A	B	C	D	E	F	G	H	I	J	K	
J-9	Plat.	1.30	1.05	1.16	1.67	1.73	6.91	51	72	69	31
J-2	Plat.	1.05	.95	1.05	1.70	1.70	6.45	47	65	59	27
J-13	Plat.	.87*	1.02*	.87	1.62*	1.62	5.83	44	54	54	26
J-23	Plat.	.70	1.04	.70	1.40	1.40	5.24	47	50	50	37
J-21	Plat.	.80	.80	.80	2.42	2.43	7.25	33	33	33	16
J-18	Plat.	.80*	.95	.80	2.60*	2.60	7.75	33	31	31	18
J-11	Plat.	.82*	.95	.70	2.88	2.60	7.65	28	28	27	17
* NON - VAULTED - STONE WALLED											
U-3	Plat.	1.20	1.50	1.20*	1.70	1.70*	7.30	53	71	71*	44
J-12	Plat.	1.05*	1.10	1.05	2.30*	2.30	7.80	41	46*	46	24

*Correct*

Table 2: SINGLE-RANGE BUILDINGS - FREE STANDING

		1.30	VAULTED	-	1.65						
J-24	Pyr.	1.20			1.20		2.17		4.55	59	56
K-5	Pyr.	1.40	x		1.65	x	2.17	x	5.20	59	47
J-12	Pyr.	1.05*	x		1.50	x	1.80	x	4.40	58	61
R-5	Pyr.	1.05	x		1.23	x	2.10	x	4.38	52	50
J-4	Pyr.	1.10	x		.75	x	2.05	x	3.90	47	54
F-4	Row Pl.	.60					2.50		3.05	40	24
- NON*VAULTED - Stone walled.											
R-3	Pyr.	1.30	x		1.30*	x	1.50	x	4.10	63	87
J-20	Plat.	1.00	x		1.00	x	3.20	x	5.20	38	31
J-17	Plat.	.70	x		.75*	x	2.90	x	4.35	33	24
K-5-3d	Pyr.	1.10	x		1.10*	x	5.00	x	7.20	31	22
V-1-2nd	Plat.	.35	x		.35	x	2.60	x	3.30	21	13

*0.13 (100d)*  
*68%*

*Handwritten calculations:*  
 $167 \frac{120}{176} \frac{71}{4430}$   
 $270 \frac{950}{1850} \frac{22}{258}$   
 $200 \frac{700}{576} \frac{1240}{1152} \frac{58}{58}$   
 $208 \frac{1080}{1040} \frac{400}{200} \frac{140}{140}$   
 $165 \frac{1050}{990} \frac{600}{495} \frac{1050}{1050}$   
 $2.17 \frac{120}{1055} \frac{1250}{1085} \frac{1650}{1650}$   
 $2.55 \frac{950}{765} \frac{1850}{1585} \frac{557}{567}$   
 $549 = 528$   
 $626 = 64$   
 $137$

Pedras Negras  
Oct. 1936 Indices

Lenton Sallerthwaite

J-9 Front

Rear

$$\begin{array}{r} 163 \overline{) 1200} \quad (736 = 74\% \\ \underline{1142} \\ 590 \\ \underline{489} \\ 1010 \\ \underline{928} \end{array}$$

$$\begin{array}{r} 173 \overline{) 1200} \quad (698 = 70\% \\ \underline{1038} \\ 1620 \\ \underline{1487} \\ 1330 \end{array}$$

(Total 1936 Total  
out - (Total 1960))

J-2 Front

Rear

$$\begin{array}{r} 1.75 \overline{) 1.050} \quad (595 = 59\% \\ \underline{885} \\ 1650 \\ \underline{1375} \\ 750 \\ \underline{575} \\ 2 \end{array}$$

$$\begin{array}{r} 1.65 \overline{) 1.050} \quad (64 = 63\% \\ \underline{990} \\ 600 \\ \underline{660} \\ 2 \end{array}$$

J-13 Front

Rear

$$\begin{array}{r} 165 \overline{) 800} \quad (485 = 48\% \\ \underline{660} \\ 1400 \\ \underline{1320} \\ 800 \\ \underline{825} \end{array}$$

$$170 \overline{) 800} \quad (47\%)$$

J-8

$$\begin{array}{r} 160 \overline{) 760} \quad (475 = 47\% \\ \underline{640} \\ 1200 \\ \underline{1120} \\ 800 \\ \underline{800} \end{array}$$

J-6-2nd

$$\begin{array}{r} 244 \overline{) 1150} \quad (47\% \\ \underline{976} \\ 1740 \\ \underline{1708} \\ 32 \end{array}$$

J-4

$$\begin{array}{r} 205 \overline{) 1080} \quad (526 = 53\% \\ \underline{1025} \\ 550 \\ \underline{410} \\ 1400 \\ \underline{1230} \end{array}$$

J-6 Run 3

$$\begin{array}{r} \underline{215} \overline{) 930} \\ \underline{860} \\ 700 \\ \underline{645} \\ 55 \end{array} \quad \underline{43\%}$$

J-6 Run 1

$$\begin{array}{r} \underline{200} \overline{) 7800} \\ \underline{6000} \\ 1800 \\ \underline{1800} \end{array} \quad \underline{39\%}$$

J-21

$$\begin{array}{r} \underline{241} \overline{) 750} \\ \underline{723} \\ 270 \\ \underline{241} \end{array} \quad \underline{31\%}$$

J-22a

$$\begin{array}{r} \underline{218} \overline{) 700} \\ \underline{654} \\ 460 \\ \underline{436} \end{array} \quad \underline{32\%}$$

J-22-b

$$\begin{array}{r} \underline{230} \overline{) 700} \\ \underline{690} \\ 1000 \\ \underline{1920} \\ 80 \end{array} \quad \underline{304 = 30\%}$$

J-18 Front

2

rear

$$\begin{array}{r} 255 \overline{) 750} \\ \underline{510} \\ 2400 \\ \underline{2295} \\ 105 \end{array} \quad \underline{29\%}$$

J-11

$$\begin{array}{r} 2.60 \overline{) 750} \\ \underline{520} \\ 2300 \\ \underline{2340} \end{array} \quad \underline{29\%}$$

J-23 Front

rear

$$\begin{array}{r} 135 \overline{) 700} \\ \underline{675} \\ 250 \\ \underline{135} \\ 1150 \\ \underline{945} \end{array} \quad \underline{512 = 51\%} \quad \begin{array}{r} 140 \overline{) 700} \\ \underline{700} \end{array} \quad \underline{50\%}$$

J-10-13E

$$\begin{array}{r} 195 \overline{) 600} \\ \underline{585} \\ 1500 \\ \underline{1365} \\ 3 \end{array} \quad \underline{307 = 31\%}$$

J-2 Ring

$$\begin{array}{r} 165 \overline{) 500} \\ \underline{495} \end{array} \quad \underline{30\%}$$

Tables  
5, 2 + 3

*Paris. North*

*slots in table?  
varies  
Pop. on d. marking?  
function*

*Motor  
floor?  
ch. status?*

	<u>Max</u>	<u>Min</u>	<u>Av.</u>	<u>O</u>	<u>P</u>	<u>Q</u>	<u>R</u>
(J-9)	1.50	1.50	1.50	Yes	Yes	Acrop.	
(J-2)	1.40	1.00	1.20	Yes	Yes	Acrop.	
(J-13)	1.65	1.10	1.38	Yes	Yes	Acrop.	
(J-23)	1.60	1.00	1.30	Yes	Yes	Acrop.	
(J-21)	2.25	.75	1.50	Yes	Yes	Acrop.	
(J-18)	2.25	1.00	1.63	Yes	Yes	Acrop.	
(J-11)	1.80	1.00	1.40	Yes	Yes	Acrop.	
(U-3)	.50	.15	.33	No	No	South	
(J-12)	1.00*	.35*	.68	No	No	Acrop.	
(K-5)	1.50*	1.30*	1.40	Yes	No	West	9.9.8.?.?.
(O-12)	1.00*	1.00*	1.00	?	No	East	
(R-5)	1.10	1.00	1.05	Yes	Yes	South	9.11.15.0.0.
(J-4)	<del>1.60</del>	<del>1.20</del>	<del>1.40</del>	<del>YES</del>	No	West	
(F-3)	1.60	1.49	1.55	YES	No	N.E. group	YES YES
(R-3)	.80	.70	.75	No	No	South	9.5.5.?.?.
(J-20)	1.00	.80	.90	No	No	Acrop.	
(J-17)	.80	.80	.80	Few	No	Acrop.	
(K-5-3d)	x	x	x	x	No	West	
(V-1-2nd)	x	x	x	x	No	S.E.	

Tables 3, 4 + 5

*(The following table contains extremely faint, illegible text and numbers, likely bleed-through from the reverse side of the page. The content is not transcribed.)*

Loft end only - see TP plan & supplementary sheets

Table 3 : SINGLE-RANGE "BUILT -ON" VAULTED BUILDINGS.

	<u>A</u>	<u>B</u>	<u>C</u>	<u>DD</u>	<u>EE</u>	<u>F</u>	<u>GG</u>	<u>H</u>	<u>I</u>	<u>J</u> %	<u>K</u> %
J-6-2nd (a)	Plat.		1.25	X	X	2.50	X	X	X	50	X
J-8	Plat.	.75		X	X	1.59	X	X	X	47	X
J-10	Plat.	.58		X	X	1.25 (1.85)	X	X	X	46 (48)	X
J-6 (Rm.3)	Plat.	.90		X	X	2.15	X	X	X	42 (43)	X
J-6 (Rm.1)	Plat.	.75		X	X	2.10	X	X	X	36	X
J-22 a e	Plat.	.72 74 70		X	X	2.22 2.35 2.28	X	X	X	32 37 31	X
J-2 (Rm.6)	Plat.	.50		X	X	1.65	X	X	X	30	X
J-6-2nd, (B) ?	Plat.	.75??		X	X	2.90	X	X	X	26??	X

NON-VAULTED AND SINGLE-RANGE

Table 4: PYRAMID SUPERSTRUCTURES - PROBABLY STONE WALLED BUILDINGS? NON-VAULTED.

R-1	Pyr.	.90	X	?	2.15?	X	?	?	?	?
R-4	Pyr.	?	X	?	?	X	?	?	?	?
R-9	Pyr.	.85	X	?	?	X	?	?	?	?
R-10	Pyr.	1.10	X	?	?	X	?	?	?	?
R-16	Pyr.	1.30*	X	?	?	X	?	?	?	?

Table 5: TWO VAULTED BUILDINGS OF COMPLEX PLAN

O-13, (Rear Rms)	Pyr.	.90	1.10	1.40	1.30	1.00	5.70	60	69	140
P-7, (Sant'y)	Plat. Plat	.82	2.70	.73	2.20	X	3.75	41	37	133
P-7 (outer)	Plat	.80	.80	.90	3.70	3.60	10.10	26	22	84
Type of Substr.										
		Front	Medial	Rear	Front	Rear	Total width above plinth	Per cent walls	Per cent front wall to front room	Per cent rear wall of rear room
		Wall thicknesses			Room widths					12%

10

	<i>Depth of debris</i>			<i>Profusion of Slope</i>	<i>Pos. and of vaults</i>	Q	R
	Max <u>L</u>	Min <u>M</u>	Av <u>N</u>				
(J-6-2nd, (a))	x	x	x	x	Yes	Acrop.	
(J-8)	2.00	1.50	1.75	Yes	Yes	Acrop.	
(J-10)	2.00	1.50*	1.75	Yes	Yes	Acrop.	
(J-6, Rm. 3)	2.20	1.75	1.98	Yes	Yes	Acrop.	
(J-6, Rm. 1)	2.00	1.00	1.50	Yes	Yes	Acrop.	9.17.15.0.0
(J-22)	2.25	1.00	1.63	Yes	Yes	Acrop.	
(J-2) Rm. 6	2.00*	1.00*	1.50	?	Yes	Acrop.	
J-6-2nd, (b)	x	x	x	x	No	Acrop.	

(R-1)	.90	.90	.90	No	No	South	
(R-4)	.75	.75	.75	No	No	South	
(R-9)	.60	.40	.50	No	No	South	
(R-10)	.85	.30	.58	No	No	South	
(R-16)	.35	.35	.35	No	No	South	
(O-13, Rear Rms.)	3.00*	3.00*	3.00	Yes	Yes*	East	
(P-7, Sanct.)	<del>1.80*</del>	<del>1.80*</del>	<del>1.80</del>	<del>Yes</del>	Yes <sup>1</sup>	East.	9.15.18.3.13
(P-7, outer)	1.60*	1.60*	1.60	No	Yes <sup>1</sup>	East.	

1 Believed to be combination vault and beam and miter roof, with vaulted part standing or, at front, fallen outside building.

Max  
Min  
Av  
Debris Depth

Profusion of Slope?

Positive or of vaults.

3.75 | 900  
750  
1500  
1755  
3155

Outer Terribles  
Pais

Outer  
Footways

Pais

1.60+ Max Min

Max Min Max Min

S-4	1.63	1.56		
S-29	2			
K-5 12	1.35	1.35		
K-5-31	3.60	3.20		
O-12	1.60	1.40		
O-13	2.70	.95		
R-1	1.90	X		
R-3	1.55	X		
R-4	2.2			
R-5	1.50	1.40		
R-9	1.60	?		
R-10	?	?		
R-16	1.70*			
O-15	1.21	1.12		
O-15	2.10	X		
O-16	2.93	X		
O-18	3.71	?	1.00	.95

chub.

1.25 (± - 5000)

S-9	1.75	1.28	1.72	1.12
S-2	1.80	1.40	1.30	1.20
S-13	1.85	1.75	X	X
S-23	1.70	1.57	1.60	1.52
S-21	1.75	1.65	1.08	1.05
S-18	2.16	2.07	1.42	1.27
S-11	1.89	1.77	1.26	1.25
S-6-2nd	?	?	?	?
S-8	1.88	1.68	1.45	1.20
S-10	?	?	?	?
Room 3	1.80	1.65	1.25	1.20
Room 1 of	1.70	1.65	1.25	1.15
S-22	?	?	?	?
Rm 5+6	1.65	1.25	X	X

P-7 3.15 2.95

G-3 2.25 ?

P7 Pan w/ 1/4  
Fund: 2.50 (middle)  
3.15 (middle)

Key to Table 6

- S Height of Vault-spring above floor.
- T Approximate angle of soffit slope of ~~xxxx~~ main vaults, based on measurements of remnants in position.
- U Vault height; equals vertical distance from vault spring to under side of cap-stones. These are computed figures based on approximate soffit slopes and therefore subject to considerable error, except in case of J-8, ~~xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx~~ Room 6 of J-2, and Sanctuary of P-7, where cap-stones are in place.
- Y

~~V. Approximate roof-height; equals vertical distance between floor and top of roof, assuming flat roof; where given, indicated by floor levels behind "built-in" buildings.~~

V. Approximate roof-height; equals vertical distance between floor and top of roof, assuming flat roof; where given, indicated by floor levels behind "built-in" buildings.

W.

- V. Cap-stone height; equals vertical distance between floor and under side of cap-stones, that is the maximum height of rooms; equals sum of Columns S and U and therefore subject to same errors as in Column U.
- W Thickness of roof-cap; equals vertical distance from under side of cap-stones to upper surface of roof, assuming flat roof; equals Column X minus Column V.; approximations only.
- X Approximate total height of building; equals sum of Columns S, U and W.
- Y Minimum <sup>known</sup> width (distance from doorway to doorway) of piers in outer walls. Maximums do not vary greatly from this figure.
- Z Maximum <sup>known</sup> width of doorways (distance ~~from pier to pier~~ between jambs); Minimums do not vary greatly from these figures.

Notes: (x) indicates no statement because feature is absent in building.  
(?) indicates no statement because feature is fallen, or note was not recorded.  
(\* ) indicates an approximate figure, based on photographs, inference from known facts, &c.



Table 7. PIER AND DOORWAY WIDTHS IN NON-VAULTED BUILDINGS.

<u>JA</u>	<u>Y</u>	<u>Z</u>
U-3	1.60	2.25
J-12	1.20	1.77
R-3	x	1.55
J-20	?	?
J-17	x	.75
K-5-3d	1.20	3.65
V-1-2nd	?	?
R-1	x?	1.95
R-4	?	?
R-9	1.00	1.60
R-10	?	?
R-16	?	?

Key to Table 7:

A. indicates Structure number.

Y indicates minimum known width of piers.

Z indicates maximum known width of doorways.

Notes: (x) indicates no statement because feature is absent in building.  
 (?) indicates no statement because feature is fallen or note not recorded.

365) 120.0 (33%)  
 109.5  
 10.50

*Min. Pier width*

*Max. Outer doorway width.*

O-4  
 S-2  
 S-4

.75  
 .90  
 1.00

length = 1.00 ±  
 n = 1.10

*vaulted?*

TABLE 8: Interior doorway widths; (#) equals known to be vaulted.

J#	Front to Rear		To End Rooms.	
	Min.	Max.	Min.	Max.
J-9	.70	1.40	.75	.80
J-2	1.25	1.60	x	x
J-13	?	?	.81	?
J-23	.75	.75	.75	1.05
J-21	.85	?	.70	.85
J-18	.75	.80	.85	?
J-11	.70	1.25	.70	?

- Non-Vaulted -

U-3	x	2.00*	x	x
J-12	.70	1.00	.68	.75

- Two\*Vaulted Buildings of Complex Plan -

O-13 (Rear Rooms)	x	1.55	x	x
P-7 (outer Rooms.)	.90	1.05	x	x

Note: In ~~xxxxxxxx~~ Structures J-9, J-13, J-21, J-18, J-11 and J-12 there probably are doorways not visible without further excavation; Table gives figures for known doorways; where only one is known it is placed in minimum column unless it is known to be the only doorway, when it is placed in the maximum column.

(\* ) equals approximation based on known jamb and contours of debris.

*Revised and OK, Jan. 1935*

TABLE OF CERTAIN CROSS-SECTION AND FACADE MEASUREMENTS

<u>Structure:</u>	<u>J-9,</u> <u>R'm 1-4</u>	<u>J-2,</u> <u>R'm 1-4</u>	<u>J-6,</u> <u>R'm 3</u>	<u>J-6-</u> <u>2nd</u>	<u>J-6,</u> <u>R3m 1</u>	<u>J-2,</u> <u>R3m 6</u>
<u>Walls:</u>	-----					
Front	1.30	1.07	1.90	.75	.75	.50
Medial	1.05	1.92	x	x	x	x
Rear	1.16	1.02	x	x	x	x
<u>Rooms:</u>	-----					
Front	1.67	1.65	2.10	2.90	2.10	1.65
Rear	1.73	1.72	x	x	x	
<u>Spring-height</u>	2.06	2.50*	2.16	2.00	2.17	2.50
<u>Vault-height</u>	1.24	.90*	1.52*	2.10 *	1.87*	.95
<u>Soffit-angle</u>	28 deg.	34 deg.	28 deg.	30 deg.	23 deg*	32 deg.
<u>Thickness over cap stones</u>	.85 .85*	.74*	.47*	.46*	.47*	.55*
<u>Doorways</u>	-----					
<u>Outer:</u>	-----					
Max.	1.75	1.80	1.80	?	1.70	1.25
Min.	1.28	1.40	1.65	?	1.65	x
<u>Inner:</u>	-----					
Max.	1.48	1.60	x	?	x	x
Min.	.78	1.23	x	?	x	x
<u>Pier Widths:</u>	-----					
Max.	1.72 <sup>2</sup>	1.30	1.25	?	1.25	x
Min.	1.12	1.20	1.20	?	1.15	x
<u>Average: Debris Depth</u>	1.50	1.20	1.75	?	1.50	1.75**
<u>Indices (%)</u>	-----					
A.	69	59	43	26	36	30
B.	51	47	x	x	x	x
C.	31	27	x	x	x	x
D.						

\* Asterisk indicates measurement on a theoretical restoration based on data believed sufficient for close approximations.  
 \*\* Double asterisk indicates approximation where measurement not made.

	<u>Rim width</u>	<u>Pier Thick</u>	<u>Pier width</u>	<u>Door width</u>	<u>W-S Index</u>	<u>V-S Pier Index</u>	<u>Pier-Door Index</u>	<u>Per Shape Index</u>
J-29	1.65	1.30	1.25	1.60	79	27	128	96
J-9	<sup>1.67</sup> <del>1.60</del>	<sup>1.20</sup> 1.20	<sup>1.20</sup> 1.25	<sup>1.65</sup> 1.65	69 (num)	25 (hand)	1.32	104
J-2	1.72	1.02	1.25	1.70	59	23	1.36	123
J-13	1.62	.87	(3.85)	1.75*	54	29(?)	-4*	*
J-6-2nd	2.50				12	3		3.85   1.75
J-8	1.60	.76	1.21	1.70	47	20	1.40	160
J-6-2nd	2.50	1.15	1.20	1.70	46	20	0	
J-6, R'm 3	2.10	.90	1.25	1.75	43	19	1.40	139
R'm 1	2.10	.75	1.20	1.70	36	18	-27	
J-21	2.43	.80	1.05	1.75	33	15	1.67	130
J-22d	2.22	.72	?	?	32	?	11	
J-22-b	2.35	.74	1.15	1.75	31	15	1.53	155
J-23	1.40	.70	1.55	1.60	50		-12	
J-18	2.55	.75	1.30	2.15	29	14	1.65	162
J-6-2nd	<sup>2.50</sup> 2.90	<sup>1.15</sup> .75	<sup>1.20</sup> 1.20(?)	<sup>1.70</sup> 1.70(?)	46	17(?)	1.42	160
J-11	<sup>2.70</sup> 2.85	.75	1.28	<sup>2.00</sup> 2.16	28	14	-26	1.68
J-11								
J-23	1.40	.70	1.55	1.60	50	25	1.04	221
J-10	1.25	.58	?	?	46	?	?	?
R'.6		.50	x	1.25				
L R'm 1	2.10	.75	1.20	1.70	36	18	1.42	160

2.50 | 1.150 | 469  
1000  
1500  
1500

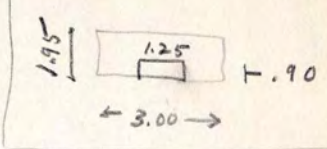
2.55 | .750 | 294  
510  
2400  
2295  
1050

3.85 | 1.75

R'm 3

P.W. 1.25 P.T. .90  
 P.W. 1.75 1/2 R.W. 1.05  
3.00  
 x 1.95  
 1500  
 2700  
 300  
5.8500 ans. an

1.25  
 x .90  
 1125<sup>0</sup>  
1.1250 m. an.



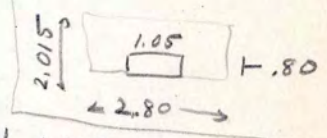
5.85 | 1.120  
 585  
5350  
 5265  
 850  
 585

191+ = 19%

J-21

P.W. 1.05 P.T. .800  
 P.W. 1.75 1/2 R.W. 1.215  
2.80  
 x 2.015  
 1400  
 280  
 0  
 560  
5.64200 m. an

1.05  
 x .80  
 840<sup>0</sup>  
.8400 m. an



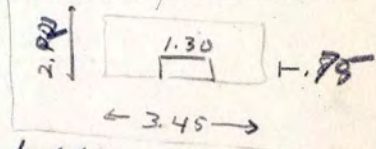
5.64 | .840  
 564  
2760  
 2256  
 5040  
 4512  
 528

.148+ = 15%

J-18

P.W. 1.30 P.T. .75  
 P.W. 2.15 1/2 R.W. 1.27  
3.45  
 x 2.02  
 690  
 0  
 690  
6.9690 m. an

1.30  
 x .75  
 650  
 910  
.9750 m. an



6.97 | .975  
 697  
2780  
 2788  
 2640  
 2172  
 468

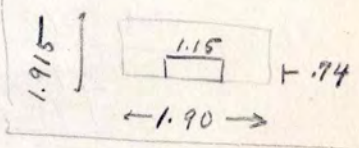
143 = 14%

255 1275

J-22(A)

P.W. 1.15 P.T. .740  
 P.W. 1.75 1/2 R.W. 1.175  
2.90  
 x 1.915  
 1450  
 290  
 2610  
 290  
5.55350 m. an

1.15  
 x .74  
 460  
 805  
.8510 m. an



5.55 | .850  
 555  
2950  
 2775  
 1750  
 1665  
 85

1.153 = 15%

= 3.04 m. an

J-10

2.90  
75  
365  
250  
1.15

P.W. 1.28  
P.W. 2.00  
3.28  
x 2.10  
3280  
656  
6880

P.T. .75  
1/2 R.W. 1.35  
2.10  
2.50  
35  
1.0125

64  
20  
55  
1.28  
x .55  
640  
640  
+ .7040  
1280  
.8320

.20  
x .64  
80  
120  
1280  
6888  
8320  
6888  
24320  
20664  
36560  
34240  
135+  
=14

J-6-2nd

P.W. 1.20  
P.W. 1.70  
2.90  
x 2.40  
14600  
580  
69500

P.T. 1.15  
1/2 R.W. 1.25  
240

1.20  
x 1.15  
600  
120  
120  
13800

6.95 | 1.380 | 198 = 20%  
695  
6850  
6255  
75950

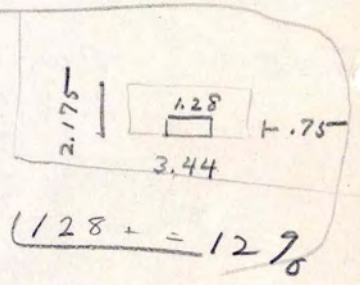
J-11

P.W. 1.28  
P.W. 2.16  
3.44  
x 2.175  
1720  
2408  
344  
688  
748200 man

P.T. .750  
1/2 R.W. 1.425  
2.175

1.28  
x .75  
640  
896

~~9600 man~~  
7.48 | .960  
748  
2120  
1496  
6240  
5984  
256



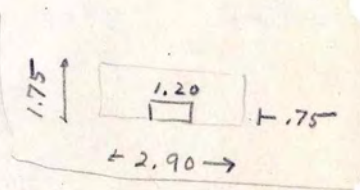
R'm 1

P.W. 1.20  
P.W. 1.70  
2.90  
1.75  
1450  
2030  
290  
50750 man

P.T. .75  
1/2 R.W. 1.05  
1.75

1.20  
x .75  
600  
840  
9000 man

5.07 | .900 | 177 = 18%  
507  
3930  
3549  
3810  
3549  
261



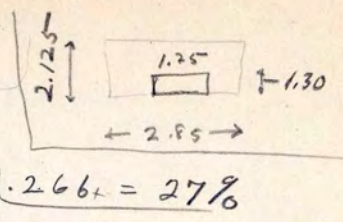
J-29

P.W. 1.20 P.T. 1.200  
P.W. 1.65 1/2 R.W. .835

2.85  
x 2.035  
-----  
1425  
855  
20  
570  
57975 quas an.  
= 5.80 quas an.

1.25  
x 1.30  
-----  
3750  
125  
-----  
1.62 mm

6.06 / 1.62  
5.80 | 1.620  
      1212  
      4080  
      3636  
      4440  
      3636



167835

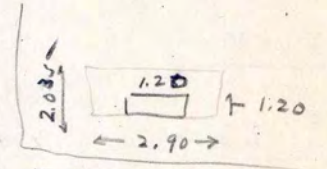
J-9  
Front

P.W. 1.20 P.T. 1.20  
P.W. 1.65 (?) 1/2 R.W. .835

2.85  
x 2.035  
-----  
5790  
57975 quas an.  
= 5.80 quas an.

1.20  
x 1.20  
-----  
2400  
120  
-----  
1.4400 mm

5.80 | 1.440  
      1160  
      2840  
      2320  
      5200  
      5220



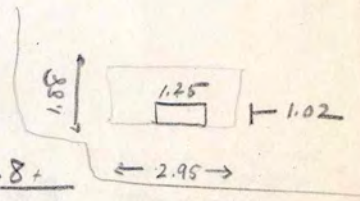
J-2

P.W. 1.25 P.T. 1.02  
P.W. 1.70 1/2 R.W. .86

2.95  
x 1.88  
-----  
2360  
2360  
2950  
5.5460 quas an.  
= 5.55

1.25  
x 1.02  
-----  
2500  
1250  
-----  
1.2750 mm

5.55 | 1.270  
      1110  
      1600  
      1110  
      4900  
      4440  
      460



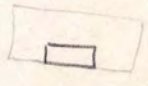
J-13

P.W. 3.85 P.T. .87  
1.75 x 1/2 R.W. .81

5.60  
x 1.68  
-----  
4480  
3360  
560  
-----  
114080  
= 11.41

3.85  
x .87  
-----  
2695  
3080  
-----  
3.3495

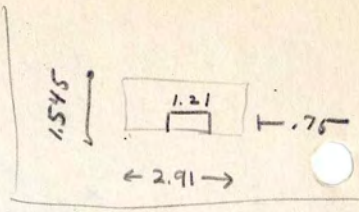
11.40 | 3.340  
      2280  
      10600  
      10160  
      4400  
      3420



(293) = 29%

J-8

P.W.	1.21	P.T.	.750	1.21
J.W.	1.70	1/2 R.W.	.795	x .75
	<u>2.91</u>		<u>1.545</u>	605
x	1.545			847
	<u>1455</u>			<u>9075</u> <i>pro</i>
	1164			<u>.91</u> <i>pro</i>
	1455			
	291			
	<u>449595</u> <i>pro</i>			

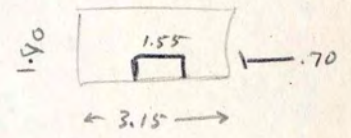


4.49	910	(.202) = 20%
	<u>898</u>	
	1200	
	<u>1898</u>	
	302	

Sytm

J-23

P.W.	1.55	.70	1.55
J.W.	1.60	1/2 R.W. .70	x .70
	<u>3.15</u>	<u>1.40</u>	<u>1085</u>
x	1.40		<u>10850</u>
	<u>1260</u>		
	315		
	<u>44100</u> <i>pro</i>		



4.41	1080	(244) = 25%
	<u>882</u>	
	1980	
	<u>1764</u>	
	2160	
	<u>1764</u>	
	386	

J-6-2nd

P.W.	1.20	P.T.	.75	1.20
J.W.	1.70	1/2 R.W. 1.45		x .75
	<u>2.90</u>	<u>2.20</u>		600
	220			840
	<u>580</u>			<u>9000</u>
	580			
	<u>63800</u>			

638	900	(.141) = 14%
	<u>638</u>	
	2620	
	<u>2552</u>	
	680	

Pier-Shake Index

Pier-Door Index

J-29

$$\begin{array}{r}
 1.30 \overline{) 1.250} \quad \underline{1.96\%} \\
 \underline{1170} \\
 800 \\
 \underline{780} \\
 200
 \end{array}$$

$$\begin{array}{r}
 1.25 \overline{) 1.60} \quad \underline{1.28\%} \\
 \underline{125} \\
 350 \\
 \underline{250} \\
 1000 \\
 \underline{1000}
 \end{array}$$

J-9

$$\begin{array}{r}
 1.20 \overline{) 1.25} \quad \underline{1.04\%} \\
 \underline{120} \\
 500 \\
 \underline{480}
 \end{array}$$

$$\begin{array}{r}
 1.25 \overline{) 1.65} \quad \underline{1.32\%} \\
 \underline{125} \\
 400 \\
 \underline{375} \\
 250 \\
 \underline{250}
 \end{array}$$

J-2

$$\begin{array}{r}
 1.02 \overline{) 1.25} \quad \underline{1.22\% = 123\%} \\
 \underline{102} \\
 230 \\
 \underline{204} \\
 280 \\
 \underline{204} \\
 760 \\
 \underline{714}
 \end{array}$$

$$\begin{array}{r}
 1.25 \overline{) 1.70} \quad \underline{1.36\%} \\
 \underline{125} \\
 450 \\
 \underline{375} \\
 750 \\
 \underline{750}
 \end{array}$$

J-8

$$\begin{array}{r}
 1.75 \overline{) 1.21} \quad \underline{1.60\%} \\
 \underline{175} \\
 460 \\
 \underline{450}
 \end{array}$$

$$\begin{array}{r}
 1.21 \overline{) 1.70} \quad \underline{1.40\%} \\
 \underline{121} \\
 490 \\
 \underline{484} \\
 60
 \end{array}$$

R'm 3

$$\begin{array}{r}
 1.90 \overline{) 1.25} \quad \underline{1.38\% = 139\%} \\
 \underline{190} \\
 350 \\
 \underline{370} \\
 1800 \\
 \underline{1700} \\
 90
 \end{array}$$

$$\begin{array}{r}
 1.25 \overline{) 1.75} \quad \underline{1.40\%} \\
 \underline{125} \\
 500 \\
 \underline{500}
 \end{array}$$

Per-Poor Index

J-21

$$\begin{array}{r} .80 \overline{) 1.05} \quad \underline{130\%} \\ \underline{.80} \\ 250 \\ \underline{240} \\ 100 \\ \underline{80} \\ 20 \end{array}$$

$$\begin{array}{r} 1.05 \overline{) 1.75} \quad \underline{1.666 = 1.67\%} \\ \underline{1.05} \\ 700 \\ \underline{630} \\ 70 \end{array}$$

J-18

$$\begin{array}{r} .80 \overline{) 130} \quad \underline{162.5\%} \\ \underline{.80} \\ 500 \\ \underline{480} \\ 200 \\ \underline{160} \\ 40 \end{array}$$

$$\begin{array}{r} 1.30 \overline{) 2.15} \quad \underline{1.654\%} \\ \underline{1.30} \\ 850 \\ \underline{780} \\ 700 \\ \underline{650} \end{array}$$

F-22(G)

$$\begin{array}{r} .74 \overline{) 1.15} \quad \underline{155.5 = 156\%} \\ \underline{.74} \\ 410 \\ \underline{370} \\ 400 \\ \underline{370} \\ 30 \end{array}$$

$$\begin{array}{r} 1.15 \overline{) 1.75} \quad \underline{1.53\%} \\ \underline{1.15} \\ 600 \\ \underline{565} \\ 350 \\ \underline{345} \\ 5 \end{array}$$

J-11

$$\begin{array}{r} .75 \overline{) 1.28} \quad \underline{170\% + 8} \\ \underline{.75} \\ 530 \\ \underline{525} \end{array}$$

$$\begin{array}{r} 1.28 \overline{) 2.16} \quad \underline{1.68\% + 168} \\ \underline{1.28} \\ 880 \\ \underline{768} \\ 1120 \\ \underline{1124} \end{array}$$

Rim I

$$\begin{array}{r} .75 \overline{) 120} \quad \underline{160\%} \\ \underline{.75} \\ 450 \\ \underline{450} \end{array}$$

$$\begin{array}{r} 1.20 \overline{) 1.70} \quad \underline{1.416 = 1.42\%} \\ \underline{1.20} \\ 500 \\ \underline{480} \\ 200 \\ \underline{120} \\ 800 \\ \underline{720} \end{array}$$

J-23

$$\begin{array}{r} .70 \overline{) 1.55} \quad \underline{221\%} \\ \underline{.70} \\ 150 \\ \underline{140} \\ 100 \\ \underline{70} \end{array}$$

$$\begin{array}{r} 1.55 \overline{) 1.60} \quad \underline{103 = 104} \\ \underline{1.55} \\ 500 \\ \underline{465} \\ 1350 \end{array}$$

J-29 to ~~J-8~~ <sup>Rm</sup> Pier & doorways <sup>widths</sup> approx. constant. (128 to 140)  
Piers being loaded primarily by decreased thickness  
- ~~width~~ v.s. length, comp. index, dips

J-13 - do. (no piers?)

10-3; 10-3; 12-3. 4-1 (board 4+1  
3 or 4 to 1)

J-12 - J-8

J-8 to J-21 Pier width shrinks + bit + plays hard in  
Comp. index - 10:4 (2.5 to 1)

J-21 to J-18 - Pier width rises to comp. for them wall or under room,  
keeping both indices close together. 2:0; 0:1

J-18 to J-6-2<sup>nd</sup> - Pier dips, but down more, to comp. for under room 5.0 (comp  
index maintained as was - pier strains the same

J-6-2<sup>nd</sup> to J-11

vault-span  
index

## TEMPLES

- 79 J-29 after break-up of M.S.S. 13  
 69 O-13-<sup>2nd</sup> ↑ ? (no piers) after O-13-3<sup>d</sup>  
 64 O-12  
 56 K-5-1<sup>st</sup> after K-5-2<sup>nd</sup> & 3<sup>d</sup>; at or after "Lintel" 7 (9.12.10.0.0?)  
 52 J-4  
 50 R-5 at or after "Lintel" 4 (9.11.15.0.0)

## TYPE X

- 33 P-7 ↑ after 8 episodes (very low walls)

## OTHER TYPES

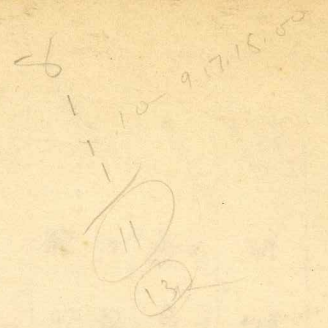
- 40 F-3 ↑ ? (no piers?)  
 24 F-4 ↑ (staggered partitions)  
 ? O-13-1<sup>st</sup> at or after "Lintel" 3 (9.16.10.0.0)

## PALACES

- 69 \*J-9 after 6 episodes  
 59 \*J-2 after 1, prob'ly 6 episodes  
 54 \*J-13 ↑ ? (no piers)  
 50? J-6-2<sup>d</sup> ↓ probably after 6 e'p'd's. ? (piers removed)  
 50 \*J-23 ↓ approach after J-22-a ? (roof comb?)  
 47 J-8  
 46 J-10 ↓ ? (space limited?)  
 43 R'm 3 after 6, episodes  
 36 R'm 1 ↓ 9.17.15.0.0; after J-6-2<sup>nd</sup> ↓ ?? (space limited)  
 33 \*J-21  
 32 J-22-a after J-21  
 31 J-22-b  
 30 R'm 6 ↓ after R'm's 1 to 4 of J-2 ? (space limited)  
 29 \*J-18  
 28 \*J-11 ↓ later than substructure (notched piers)  
 \* double range



2-1-2 Sub-3-6/2nd



5-26 }  
5-12 } double  
5-17 }

5-9 }  
5-2 } double  
5-13 }

5-8 }  
5-10 Room 2 } single  
5-6 Room 3 }

5-21 }  
5-18 } double  
5-22 } single  
5-23 } double - sub. latter than 5-22

5-11 }  
5-6-2nd }  
5-2-Room 6 }  
5-6-Room 1 }

Period of minor  
modifications (block towers  
to within 20)

Omit - temples other than J-29.  
 J-13 + J-23 (no pairs).  
 J-6 - 2nd "

	Ram width	PenTh	Pen width	Pen width	V-s index	Pen area index	Pen Pen index	Pen index	
check ✓	J-29	1.65	1.30	1.25	1.60	79	27	1.28	96
check ✓	J-9	1.60(?)	1.20(?)	1.25(?)	1.65(?)	69(?)	26	1.32	104
check ✓	J-2	1.72	1.02	1.25 <sup>av</sup>	1.70 <sup>av</sup>	59	23	1.36	123
check ✓	J-8	1.59	.75	1.21	1.70	47	20	1.40	160
	R'm 3	2.10	.90	1.25	1.75	43	19	1.40	139
	J-21	2.43	.80	1.05	1.75	33	15	1.67	130
check ✓	J-18	2.60	.80	1.30	2.15	31	14	1.65	162
check ✓	J-22	2.35	.74	1.15	1.75	31	15	1.53	155
	J-10	1.25	.58	?	?	46	?	?	?
	J-6-2nd								
check ✓	J-11	2.85	.75?	1.28	2.16	26	12(-)	1.68	170
	R'm 1	2.10	.75	1.20	1.70	36	18	1.42	160
	J-23	1.40	.70	1.55	1.60	50	25	1.04	221
	J-13	1.62	.87	3.85*	1.75*	56	29(?)	x	x
	J-6-2nd	2.90	.75	1.20	1.70	26?	14?	1.42	160

(J-10 is out with Pen 1 + J-22)

Sep  
 J-23  
 J-10  
 R'm 6  
 R'm 1

250 / 500  
 750 / 500  
 328

walls.

R vaults - taking R'm 1 as face.  
rows m.u. acc.

	S-29	1.30 <sup>±</sup>		
69	S-9	1.16	1.73	1.05
59	S-2	1.02	1.72	.92
54	S-13	1.87	1.62	.85
50	S-6-2nd	1.20	2.40	
47	S-8	.75	1.59	
	<del>S-6-2nd</del>	<del>1.20<sup>?</sup></del>	<del>2.40</del>	
	R'm 3	.90	2.10	
	R'm 1	.75	2.10	
33 31 31	S-21	.80	2.42	.80
	S-22	.70	2.28	
	S-18	.80	2.60	.95 (comb)
	S-11	.75	2.75	.15
	P-7	.83	3.75	.88
<hr/>				
	L S-10	.58	1.25	
	R'm 6	.50	1.65	
	S-23	.70	1.40	

11, 11, ?      2.40 | 1.200 | 50?  
                              1200

~~11.11.0.0.0?~~

9.17.15.0.0?

2.10  
 .75  
 ---  
 2.85

155 L<sup>27</sup>  
14

into 1-5 mths  
w/ 1.05 width  
85-90 deep

# Temple Dimensions

## One Room Temples

	Inside		Outside diameters		Notes in Pym
	Length	Width	Wide	Deep	
K-5-3d	18.70 ±	4.90	20.90 ±	7.15 (a mm?)	
R-3	6.20 ±	1.55 ±	8.85 ±	4.50 <sup>??</sup> <u>Exp</u>	O-15 O-16 S-7-Sub
R-10	3.60 est.	6.20 ±	6.20 <u>Exp</u>	?	R-2 U-3
R-1	8.90 (±)	1.55 w	?	?	
R-9	8.00	1.77 (?)	9.70?	?	
R-16	8.30 ±	1.90 ± mm.	10.50 ± (probably mm)	?	
J-29-D-C	8.30	1.75	?	7.20	O-13 - only rear rooms: rear 7.00 x .90 mid 9.30 x 1.20
J-29 A	7.80	1.70	11.00 (est)	7.20	U-3 rear " front " 6.00 x 1.62 12.00 x 1.62
K-5-1SI	8.70	2.17	11.70 ±	5.35 ±	O-16 (inside diam) L. 6.50 2.60 2.00 1.05 1.05 4.15
O-12	8.00 ±	1.65	11.30 (±)	4.50 ±	
J-4-B	8.15	2.05	12.20 ±	4.25 ±	J-4-B (inside diam) LR 1.75 2.05 1.65 MR 2.60 " 1.65 RR 1.80 " 3.30
R-5	7.60 ±	2.10	10.40 ± + side outsets?	5.40 ???	
O-13 A front room all rooms Out assembly	20.90 ±	2.95 ±	22.50 ±	9.40	F-4 (inside diam) LR 2.50 (±) 2.50 (±) 1.65 MR 2.10 2.50 1.08 RR 2.50 2.50 1.08 1.15 3.60 3.71 2.50 80 1.5
Sub Grand, Str 3 Sep rooms.	3.70 (round)	2.70 ±	5.30	3.30	
	1.40	2.70 ±			
	1.00	"			
	1.40	"			

100  
130  
125  
375

539  
250  
40  
415  
40  
15  
830

# Temple Sills + Benches

	<u>Height</u>	<u>"Depth"</u>	<u>Length</u>
K-5-3 <sup>d</sup>	50	1.25	Room l.
R-3	.10	.25 (est)	"
R-1	.35 ±	.25 (est)	Ru (probably)
J-29-D-B	.34	.22 (av)	"
J-29 A	.26	.22 (20-25)	"
J-9			
O-12	.35 (50%)	.15	" (probably)
K-5-1 <sup>st</sup>	.30 ±	.15 (to 10)	"
O-13	.40 ±	.15	" (probably)
J-4	.31	.18 ±	"
R-5	.29	.15	"
U-3	.28	.10	"

6.78  
86  
5.92

Pyramid Heights

Pyramid Found. Platf. Heights

Temple Floor Heights

	1	2	3	4	5	6	7
	Floor to Basal Terrace	Floor to Plaza	Basal Top to Plaza	Max. Platf. depth out over	To Plaza	To Basal Terrace	To Plaza
R-10-1st A	5.92 (1927) <del>5.00 ±</del>	6.38 (1927)	8.00	.80	.70 ± (Photo)		7.20
R-10-2nd B - over terrace		6.78					
R-3-1st	7.30	8.80 ±	10.00 ±	.80	.65	7.95	99.45 (drawn in)
R-3-2nd	6.20	7.70 ±		.80	.80	7.00	8.50
R-9		6.45	9.00	.55	1.80 (2 lines)		108.45
R-1-1st		9.65	12.00	.90	1.45 (1 line)		11.10
R-1-2nd	2.25 (?)	8.20			.45 (?)		8.65 (?)
R-16	15.98 ±	16.78	18.80	.75	1.27 (1 line)		18.05
R-4		?	14.00	1.00 ±	2 (door?)		13.00 ±
R-5			13.00				
K-5-3rd		?		x	?	8.30 ±	8.30 ±
K-5-2nd		?		x	?	11.30 ±	11.30 ±
J-29	14.90 ±	18.73		2.70	3.80 (2 lines)		22.53
O-13-1st		13.40		3+	2.40 (found)	15.80	15.80 (found)
O-13-2nd		?		x	2.40 (found)	11.40	11.40 or 12.40 (found in plaza)
O-12		8.93		1.04	2.07 (± ?)	11.00	11.00 ±
K-5-1st		12.80 (in line?)			1.10 (1 line)	13.80	13.80 ±
J-4-1st	19.25 (1927)	26.05			1.95 (1 line) (found)	28.00	28.00
J-4-2nd	20.65 ±						
R-5		10.70 (?)	13.00	1.50	.80 (1 line) + another terrace?		11.50
J-3	19.65	25.99			3.20		29.19 (found)
Sub Canal St. 1							
" St. 2							
" 3							

25.19  
6.34  
17.65

3.80  
25.0  
11.30

15.70  
3.83  
22.53

K-5

# Niche Dimensions

O-15 - From Bernis dwd measurements, 1935.

depth - .27 + .31 = .29 average.

w. dth - .52 (frms)  
.47 (near)

$\frac{.52 + .47}{2} = .49$  average.

$49 \overline{) 290} \begin{matrix} 26 \\ 294 \end{matrix} = 60\% \text{ av.}$

$52 \overline{) 290} \begin{matrix} 260 \\ 300 \\ 312 \end{matrix} \begin{matrix} 56\% \\ \\ \end{matrix}$

J-29 - Phase D-C.

$5 \overline{) 73} \begin{matrix} 14 \\ 70 \\ 3 \end{matrix} \begin{matrix} 146 \text{ near} \\ \\ \end{matrix}$

depth  $\frac{1.22 + 1.14}{2} = 1.18$  av.

$2 \overline{) 236} = 1.18$  av.

w. dth =  $\frac{1.46 \text{ near} + 1.54 \text{ frms}}{2} = 1.50$  av.

$150 \overline{) 1.180} \begin{matrix} 79 \\ 1050 \\ 1300 \\ 1350 \end{matrix} \begin{matrix} 79\% \\ \\ \end{matrix}$

$154 \overline{) 1180} \begin{matrix} 77 \\ 1078 \\ 1020 \\ 1078 \end{matrix} \begin{matrix} 77\% \\ \\ \end{matrix}$

$5 \overline{) 61} \begin{matrix} 12 \\ 5 \\ 11 \\ 10 \end{matrix} \begin{matrix} 122 \\ \\ \\ \end{matrix}$

Phase A

J-29 Point  $132\%$

J-29 Phase D  $77\%$

O-15  $56\%$

O-12  $?$

K-5  $83\%$

J-4  $80\%$  (or more)

R-5

$5 \overline{) 375} \begin{matrix} 75 \\ 35 \\ 25 \end{matrix} \begin{matrix} 75 \\ \\ \end{matrix}$

depth 76 av.

$50 \overline{) 76} \begin{matrix} 1 \\ 50 \\ 160 \\ 150 \\ 100 \end{matrix} \begin{matrix} 1.32\% \\ \\ \end{matrix}$

$5 \overline{) 39} \begin{matrix} 78 \\ 35 \\ 40 \\ 40 \\ 50 \end{matrix} \begin{matrix} 78 \\ \\ \\ \end{matrix}$

w. dth = 44

$5 \overline{) 19} \begin{matrix} 38 \\ 15 \\ 40 \end{matrix} \begin{matrix} 38 + 50 \\ \\ \end{matrix}$

J-4

$94 \overline{) 750} \begin{matrix} 79 \\ 658 \\ 920 \\ 846 \\ 74 \end{matrix} \begin{matrix} 79 = 80\% \pm \\ \\ \end{matrix}$

K-5 - niche width 1.05 (from typed notes).  
depth 85 to 90

$105 \overline{) 870} \begin{matrix} 83 \\ 840 \\ 300 \\ 315 \end{matrix} \begin{matrix} 83\% \pm \\ \\ \end{matrix}$

R-5

$108 \overline{) 123} \begin{matrix} 114 \\ 108 \\ 150 \\ 108 \\ 420 \\ 432 \end{matrix} \begin{matrix} 114\% \pm \\ \\ \end{matrix}$

Then I nidi.

$$\begin{array}{r} 240 \overline{) 500} \\ \underline{480} \\ 200 \end{array}$$

$$2 \frac{21}{6}$$

Place Second N.ches

S-21. depth 55 av.

$$\begin{array}{r} 79 \overline{) 550} \quad 69 = 70\% \\ \underline{474} \\ 760 \\ \underline{711} \\ 49 \end{array}$$

Niches.

1936

	wide of frame.	Depth (cm).	%
J-29 Phase P.	1.54	1.18	77
<del>O-15</del>			
O-12	?	?	?
K-5	1.05	.87	83 ±
J-4	.94	.75 ±	80 ±
R-5	1.08	1.23	1.14 ±
J-29 Phase A.	.50	.76	1.32 ±
O-15	.52	.29	56

(on higher eas. 1/2)

Throne 1.

	2.40	.50	21%
J-21 Throne Row	.79	.55	70%

Piedras Negras - Lintel TABLE.

Lintel No.	Span	W.D.T.H.	Thickness	Overlap (A) or Plain ends		Top (exterior)				Edges		Bot.		L.B. %	Shoulder Features	Prop. Spacing	Table				
				Right	Left	skt	Finish	skt	Finish	skt	Finish	skt	Finish								
<u>Plain Lintels</u>																					
(Str. S-2) 90	1.30 x	1.55	.75 x .80	.30		RW	RW	RW	RW	42	58	Face	smooth								
S-4	1.75	.82	.40	37	38					47	57										
O-4	1.43	60(h)	.28	34	34					71*		S back				Sho: .75' on base.					
R-13	1.48	.91	.46							?	?										
S-19?	1.55	.64	.40	Partly	27					41	?										
J-17	.75	1.58	.76	.25	.33			F	F	48	42										
P-7	.67	1.30	.83	.28-.30	.35	x	.28	x	CF	RT	?	?	?	?	F	RT	51 52 Face				
<u>Sculptured Lintels</u>																					
L-11	1.53	2.10*	1.30	.82	.68	.21				RW	?	39	73	Rework							
L-1	?	?	?	2.00								?	?								
L-3	1.24	1.24	.62	.59	.14	.13	.06 to .08	.02 to .04	CB	Fr.	dry	Fr.	dry	Fr.	?	?	50	✓			
L-8	?	?	.71	.10	.13				CB	Fr.	CB	?	?	?	?	?	?	2	Stock	th. is only on both - for figure?	
L-9	?	?	?	.105	.13				CB	RT?	CB	RT?	?	?	?	?	?	?	?		
L-2	1.29	1.29	.58	.075	.09	.055	.07	.05	.075									✓		M.B. S.M.S. - L = 4' to 4' 1" W.D. = 1' 8" to 1' 10"	
L-4	1.24	1.24	.58	.18	.15	.075	.11	.085	F	CB	T?	CB	T?	CB				76	112	th. is only on both - for figure?	
L-5	1.58	1.58	.120	.115	.15	.06	.06	.06	CB	RT	?	?	CB	RT				76	X	th. is only on both - for figure?	
M.T.S. 13	.82	.82	.53	.07	.07														✓		
L-12	1.18	1.18	.52	.53	.20	.24	.015	.035	.02	.03	CB	RT	CB	RT	CB	RT	CB	RT	?		.06 x .06
L-6	1.34	1.34	.124	.09	.10			.085											93	?	Design #600 .50 across
L-7	1.50	1.43	.120*	.27															84	126	
L-10																					
L-13	?	?	.415	.11	.13														?		

\* F = flat  
 CB = curved  
 RT = rough  
 CF = curved toward face  
 S = smooth  
 RT = rough  
 Fr. = fracture surface

"Lintels"

R13 not

Limel.

Pumice

6  
10  
12

Str.	Stave No.	Span	Length	Wall Thickness	Width	Thickness	Possible Overlap Left	Possible Overlap Right	Piedras Negras Total plain ends	in position	L-rod	L-rod	OUT Tube
J-17	P	.75	1.58		.76	.25					48	47	
O-4	P	1.00	1.43		?	.26-.28			.43		?	71*	
P-7 same	P	.67	1.30		.83	.28-.30	.35	.28			51	52	
S-2	P	.90	1.55		.75-.80	.30	?	?			42	58	
S-4	P	1.00	1.75		.82	.40	?	?			47	57	
S-19	P	?	1.55		.64	.40					41	?	
R-3	L-11	1.53	2.10*	1.30	.62-.68	.21					39	73	
R-5	L-4	1.40	1.25		1.20	.18-.20*	.075	.085			96	112	
I-3	L-5	1.80	1.58		1.20	.13-.10	.06	.06			76	?	
K-5-12	L-7	1.85	1.43	1.00	1.20	.27	.085	.085			84	1.26	
O-13	L-1	?	?	.50*	?	?	?	.10*			?	?	
O-13	L-2	?	1.29	.50*	.58	.075-.09	.055-.07	.05-.075			45	✓	
O-13	L-3	.95	1.24	.50*	.59-.62	.13-.14	.06-.08	.02-.08			50	✓	
?	L-12	?	1.18	?	.52-.53	.20-.24	.015-.035	.02-.03			45	?	
?	8	?	?	?	.71	.10	.00-.03*	?			?	?	
?	9	?	?	?	?	.105-.13	?	.03*	?		?	?	
?	10	?	?	?	?	.10	?	.05*	?		?	?	
?	13	?	?	?	.415	.11-.13	?	?	?		?	?	

span = .75 at bottom =

Broader border at bottom somewhat turtle-back. Sug. of animal sides, but good look. .20 wider than wall thickness. Flood hole.

Flood hole. only .04 flood hole at left end.

Turtle back. Flood hole. Somewhat turtle back, probably (same) of v. Turtle back.

111

✓

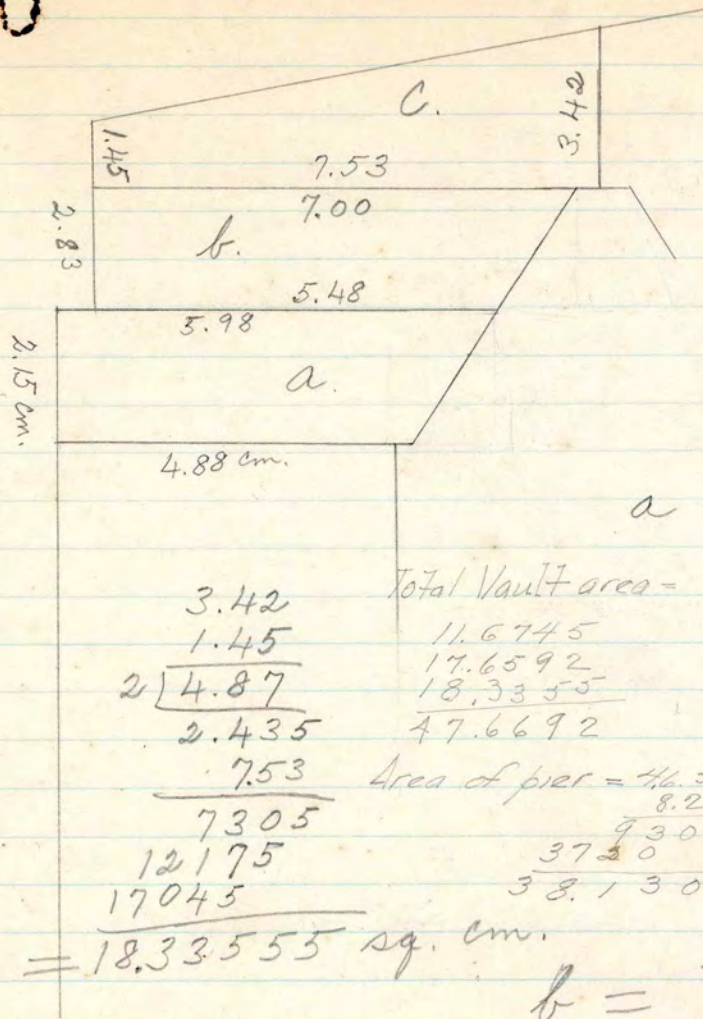
# Foundation Platforms

	Frm'd Panels?
R-10	No
R-3	Yes.
R-9	?
R-1	Partly.
R-16	Yes
O-13	Yes, early.
J-29-D	Yes
J-29 C-A	no
O-12	No (?)
K-5-1 <sup>st</sup>	?
J-4	?
R-5	?

PIV Vault Sections  
1935

J-9

A. I.  
(571 J-9)



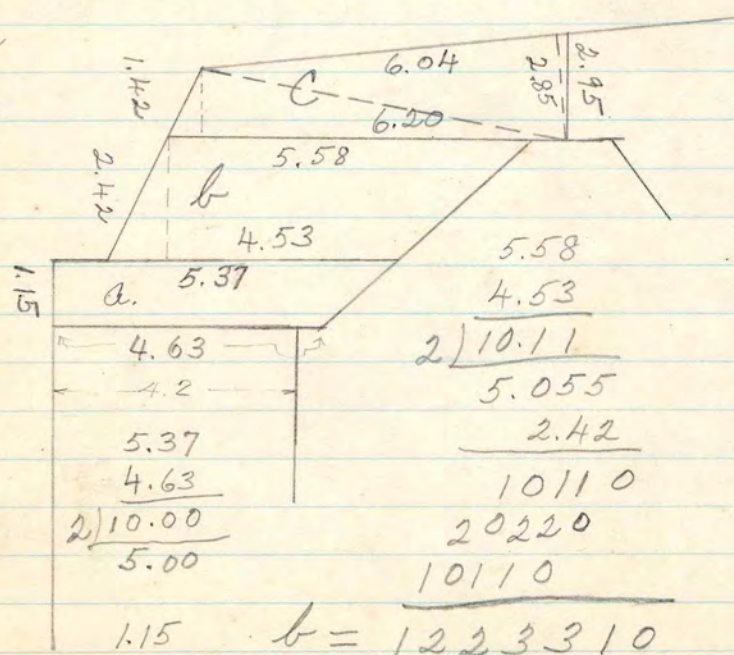
5.98  
4.88  
2) 10.86  
5.43  
2.15  
2715  
543  
1086  
a = 11.6745 sq. cm.

3.42  
1.45  
2) 4.87  
2.435  
7.53  
7305  
12175  
17045  
C = 18.33555 sq. cm.

Total Vault area =  
11.6745  
17.6592  
18.3355  
47.6692  
Area of pier = 46.5  
8.2  
3730  
38.130

7.00  
5.48  
2) 12.48  
6.24  
2.83  
1872  
4992  
1248  
b = 17.6592 sq. cm.  
Index = 2.3 / 7.65 = .49+

A. II.  
(J-2)



6.20  
1.42  
1240  
2480  
620  
2) 8.8040  
4.402  
C = 12.009 sq. cm.

4.63  
4.2  
5.37  
4.63  
2) 10.00  
5.00  
1.15  
5  
a = 5.75 sq. cm.

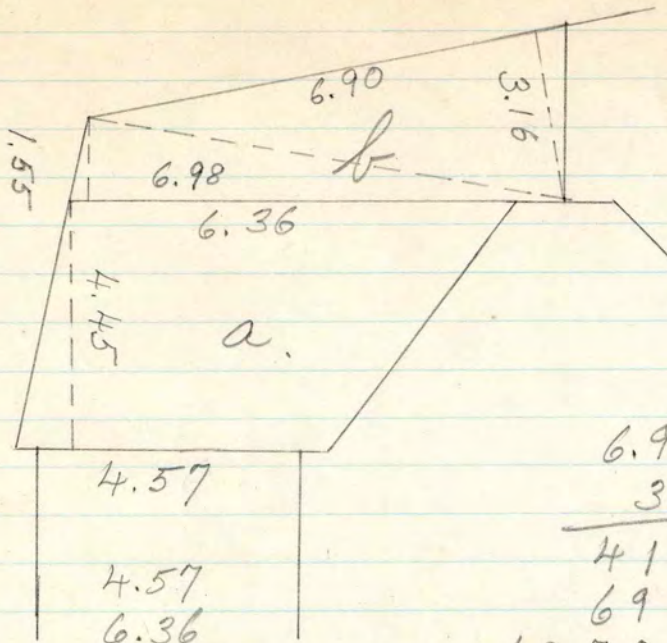
5.58  
4.53  
2) 10.11  
5.055  
2.42  
10110  
20220  
10110  
b = 12.23310 sq. cm.

Area of pier = 4.2 x 10 = 42 sq. cm.  
6.04  
2.85  
3020  
4832  
1208  
2) 17.2140  
8.607

Total area of vault = 29.99210 sq. cm. Index = 1.5 / 4.2 = .357 (at index = .12)

A. III

J-13



6.98  
1.55  
 3490  
 3490  
698

2) 10.8190  
5.4095

Total vault area -  
 24.319  
 + 16.311  
 40.630 sq. cm.

6.90  
3.16  
 4140  
 690  
2070

Area of pier =  
 3.45  
 x 9  
31.05

2) 10.93  
5.465  
 4.45  
27325  
 21860  
21860

2) 21.8040  
10.9020  
 5.4095

Index  $\frac{1.25}{3.45}$   
 = .362

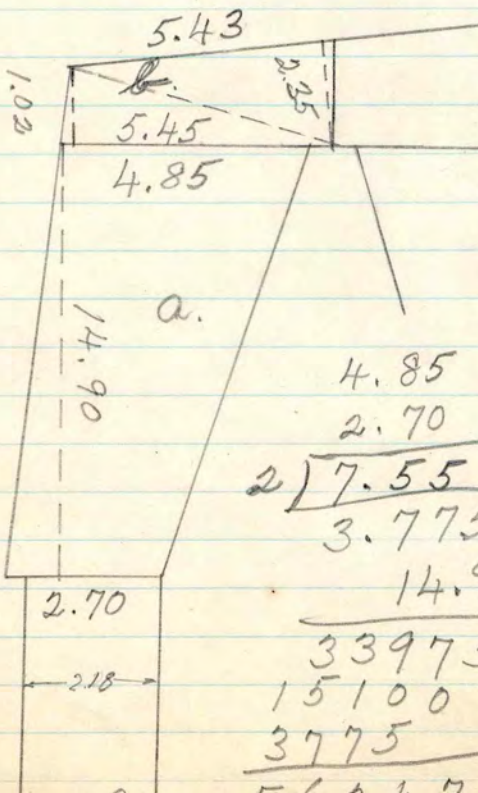
b = 16.3115 sq. cm.

a = 24.31925 sq. cm.

(at 1/2 index = .113)

A. IV

(J-11)



5.45  
1.02  
 1090  
 545  
 2) 5.5590  
2.7795

5.43  
2.35  
 2715  
 1629  
 1086  
 2) 12.7605  
6.38025  
 2.77950

b = 9.15975 sq. cm.

Total vault area - 9.169  
 56.25  
65.41

Area of pier - 2.18 Index -  $\frac{.48}{2.18}$   
 = .22

a = 56.2475 sq. cm.

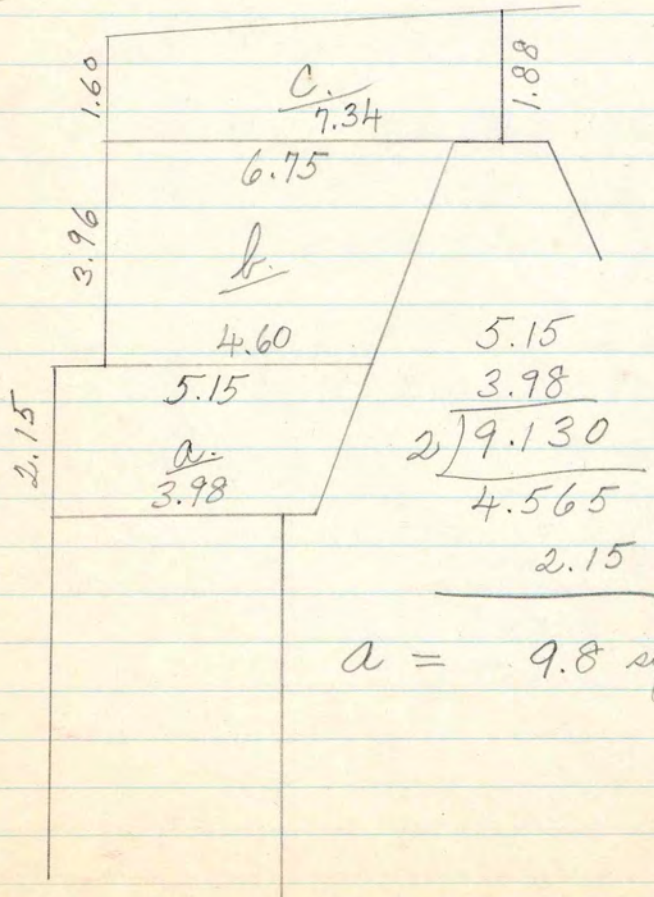
21.0370 sq. cm.

1/2 - Dist. from center to center of pier  
 $26.814^2 - 57.84^2 = 1714.624 - 1967.76 = 0$

B  
I

Str.  $\frac{2}{45}$

B: II.



$$\begin{array}{r} 6.75 \\ 4.60 \\ \hline 2) 11.350 \\ 5.675 \\ \hline 3.96 \end{array}$$

$$b = 22.45 \text{ sq. cm.}$$

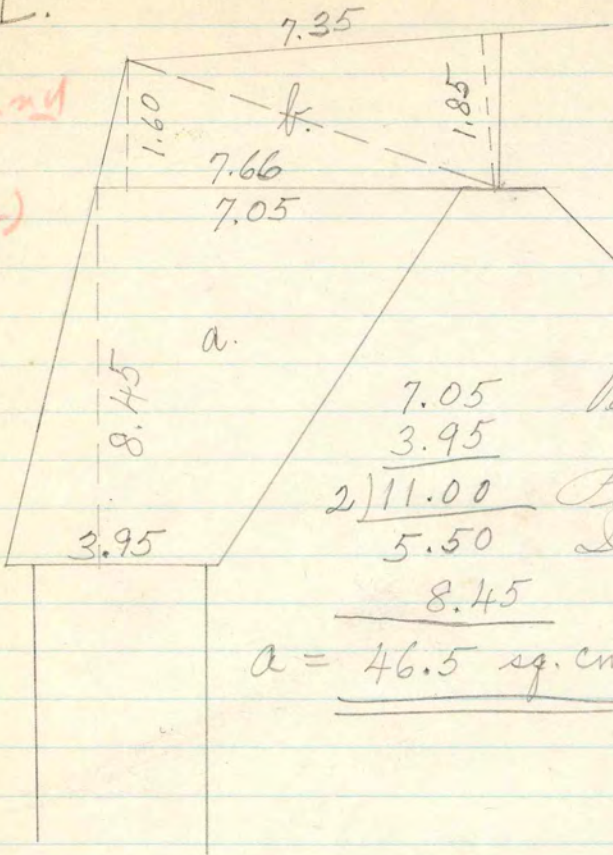
$$\begin{array}{r} 1.60 \\ 1.88 \\ \hline 2) 3.48 \\ 1.74 \\ \hline 7.34 \end{array}$$

$$c = 12.78 \text{ sq. cm.}$$

$$a = 9.8 \text{ sq. cm.}$$

B.  
III.

J-6-2nd  
(b)  
(width)



$$\begin{array}{r} 7.66 \\ \underline{1.60} \\ 2) 12.26 \\ \underline{6.13} \\ 6.80 \end{array}$$

$$\begin{array}{r} 7.35 \\ \underline{1.85} \\ 2) 13.60 \\ \underline{6.80} \end{array}$$

$f = \underline{\underline{12.93 \text{ sq. cm.}}}$

$$\begin{array}{r} 7.05 \\ \underline{3.95} \\ 2) 11.00 \\ \underline{5.50} \\ 8.45 \end{array}$$

Vault area =  $46.5$   
 $\underline{12.93}$   
 $59.43$   
 Pier area =  $3 \times 8 = 24$   
 Index = .266

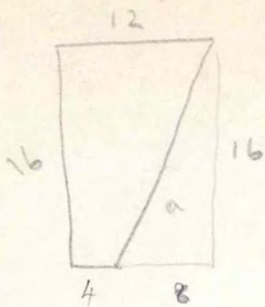
$a = \underline{\underline{46.5 \text{ sq. cm.}}}$

B.  
IV.

# Theoretical Series

@  
Shelby

A.2

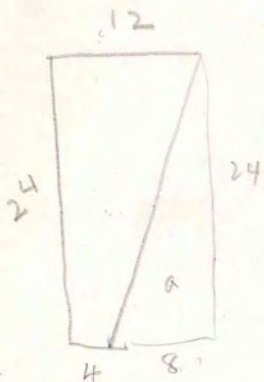


$$\begin{array}{r} \text{total} = \frac{16}{12} \\ \underline{32} \\ 16 \\ \underline{192} \\ -a \\ \underline{64} \\ 128 \text{ sq. cms.} = \text{lbs.} \end{array}$$

$$a = \frac{16}{5} \quad \text{Total area} = \frac{128}{.003} \\ \frac{2}{128} \underline{64} \quad M = \frac{38.4}{2} \text{ cm lbs.}$$

$$F_{1 \text{ cm}} = 16 \left| \frac{38.4}{32} \right. \left. \frac{2.4}{1.64} \right. F_1 \text{ (lbs.)}$$

A.3

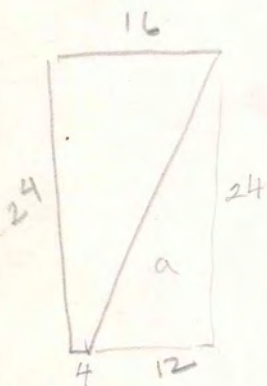


$$\begin{array}{r} \text{total} \\ \frac{24}{12} \\ \underline{48} \\ 24 \\ \underline{288} \\ 96 \\ \underline{192} \text{ sq cms (lbs.)} \end{array} \quad a = \frac{24}{5} \quad \frac{2}{192} \underline{96}$$

$$\frac{192}{.3} \\ \underline{57.6} \text{ M of wires}$$

$$\frac{24}{48} \left| \frac{57.6}{96} \right. \left. \frac{2.4}{96} \right. = F_1 \text{ (lbs.)}$$

A.4

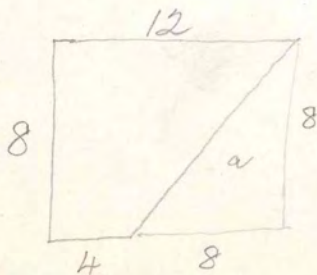


$$\begin{array}{r} \text{total} \\ \frac{24}{16} \\ \underline{144} \\ 24 \\ \underline{384} \\ 144 \\ \underline{290} \text{ sq cms (lbs.)} \end{array} \quad a = \frac{24}{5} \quad \frac{2}{288} \underline{144}$$

$$\frac{240}{1.6} \\ \underline{1440} \\ 240 \\ \underline{3840} \text{ M}$$

$$\frac{24}{24} \left| \frac{384}{144} \right. \left. \frac{16}{144} \right. = F_1$$

A-1

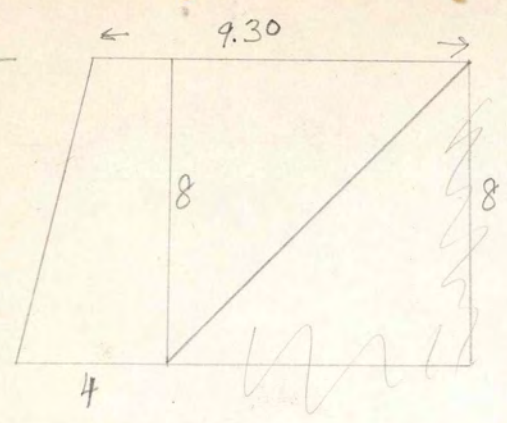


$$\begin{array}{r} \text{total} \\ \frac{12}{8} \\ \underline{96} \\ 32 \\ \underline{64} \text{ sq. cm.} = \text{(lbs.)} \end{array} \quad a = \frac{8}{8} \quad \frac{2}{64} \underline{32}$$

B

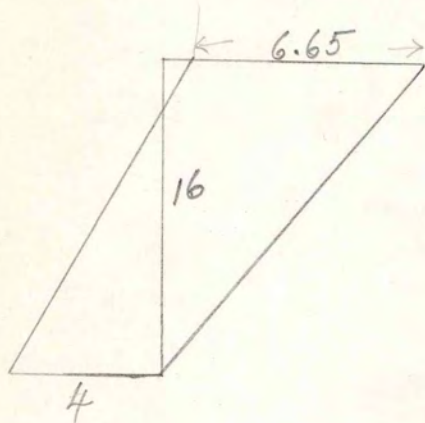
Shall

B-1



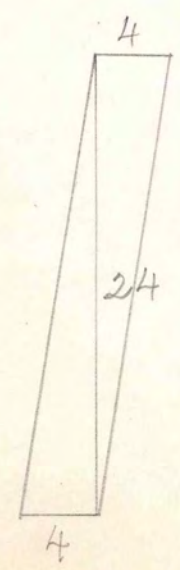
$$\begin{array}{r}
 9.30 \\
 4.00 \\
 \hline
 2 \overline{) 13.30} \\
 \underline{6.65} \\
 8 \\
 \hline
 53.20 \text{ sq. cm.}
 \end{array}$$

B-2



$$\begin{array}{r}
 6.65 \\
 4.00 \\
 \hline
 2 \overline{) 10.65} \\
 \underline{5.325} \\
 16 \\
 \hline
 31950 \\
 5325 \\
 \hline
 85.200 \text{ sq. cm.}
 \end{array}$$

B-3

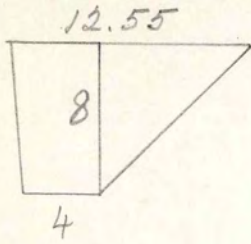


$$\begin{array}{r}
 24 \\
 4 \\
 \hline
 96 \text{ sq. cm.}
 \end{array}$$

C.

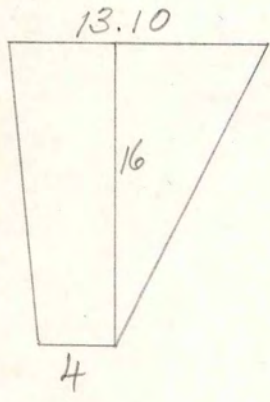
Sheet 0

C.-1



$$\begin{array}{r}
 12.55 \\
 4.00 \\
 \hline
 2 \overline{) 16.55} \\
 \underline{8.275} \\
 8 \\
 \hline
 66.200 \text{ sq. cm.}
 \end{array}$$

C.-2



$$\begin{array}{r}
 13.10 \\
 4.00 \\
 \hline
 2 \overline{) 17.10} \\
 \underline{8.55} \\
 16 \\
 \hline
 5130 \\
 855 \\
 \hline
 136.80 \text{ sq. cm.}
 \end{array}$$

C.-3



$$\begin{array}{r}
 13.65 \\
 4.00 \\
 \hline
 2 \overline{) 17.65} \\
 \underline{8.825} \\
 24 \\
 \hline
 35300 \\
 17650 \\
 \hline
 211.800 \text{ sq. cm.}
 \end{array}$$



# Palace thrones 1937.

Table, screen.

Table ? Bench,  
w. screen.

Bench?

J-6 (thru 1)

~~J-6, bench.~~

J-6<sup>2</sup> (end)

~~J-6 end.~~

J-9  
J-9

J-11

J-11

J-11

J-12 ?  
J-12 ?

J-12  
J-12

J-12  
J-12 ?

J-18

J-21

R-7-4

3

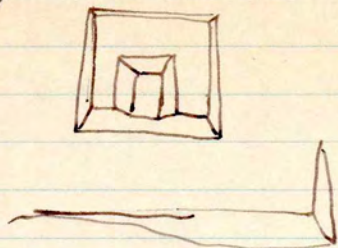
1

6

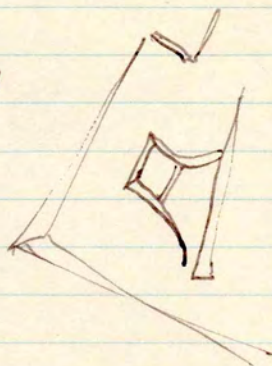
2

Possible S word Houses:

K-2<sup>3</sup>/<sub>2</sub>



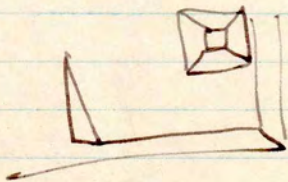
O-27



U-6

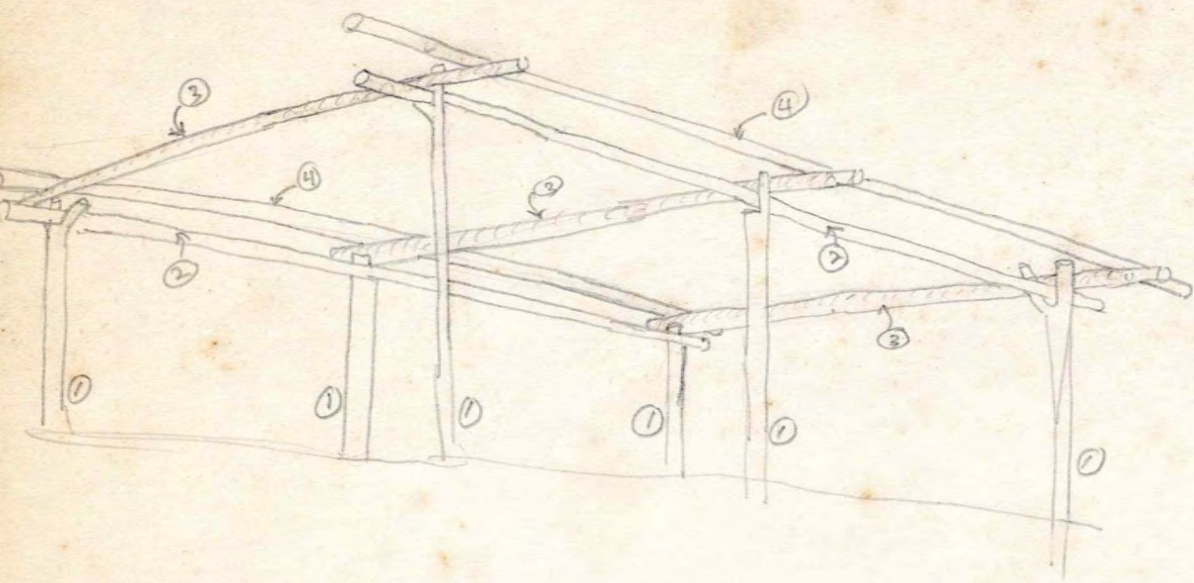


U-8



N-9<sup>7</sup>





1st erect.

2nd tie in

3rd tie in

4th tie in

5<sup>th</sup> tied on ground

6<sup>th</sup> with 5

5 m 4; 6 m center 3.

① - Arcón *Por A.*

② solera *(same name)*

③ - Bigas

④ sobre-solera

⑤ Piez de Tijera *(near ends)*

⑥ garuche

*travels slowly to hold anything up.*

⑥<sup>1/2</sup> temporary members to walk on.

next.

⑦ coballete

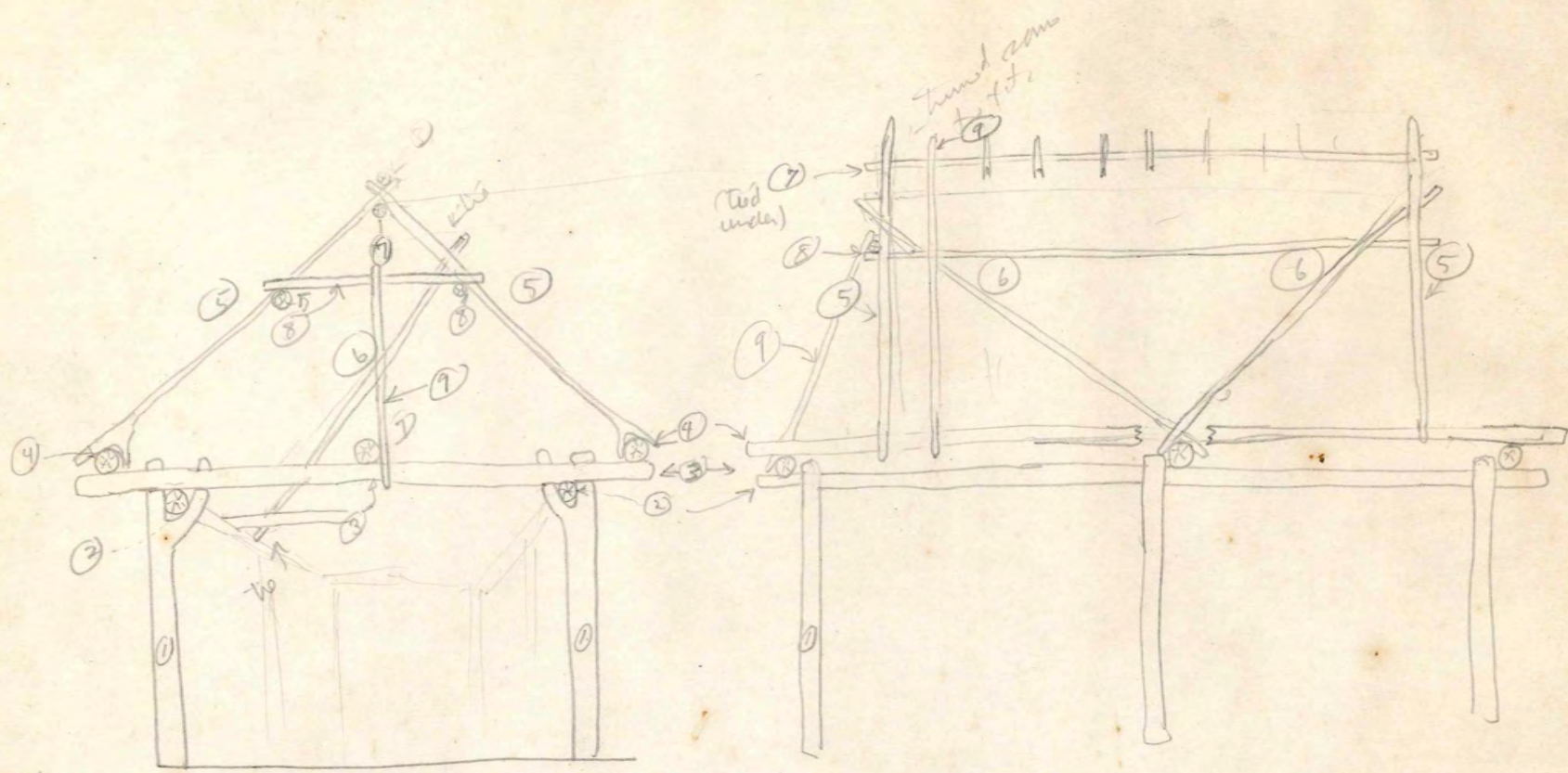
next.

⑧ diagonales *(columns?)*  
④ in quadrant

⑨ Calcontes *(with members, + inclined at ends)*



Bush House,  
PA



Suggested assignment of monuments in South group,  
eliminating hypothesis of a large hiatus:

- Assumption 1 : ~~That~~ Stela 29 is not a hotun marker  
but records an odd date: find out frpm Morley  
& Mason if there is any more than shown by Maler.
- " 2. That katuns only were marked until Katun 8.
- " 3. That Morley's assignments of doubtful monuments (excpet 42)  
are correct or at least that they belong  
after 9.8.0.0.0 - which is very probable since  
- a. hotun marking is certain for katun 10.  
- b. 9.8.15.0.0 & 9.9.15.0.0 were marked  
without question (acc. to Morley)  
- c. the correct number of stones to mark  
the rest of the hotuns of Katuns 9  
are there in the South group, before the  
same line of buildings as 25 and 26,  
which belong to Katuns 8 and 9, and  
there are no extra ones there.

*is this  
a calendar  
around date?  
Morley*

9.4.0.0.0 Lintel 12 (clear) subject to final reading) *(color - not  
sure)*

9.5.0.0.0 Stela 30 (clear acc to Morley)

9.5.5.?.? "Stela" 29 - assumed an odd date; very likely  
~~a lintel, companion of Lintel 11.~~ *leading forward to*

9.6.0.0.0 (Lintel 11 - unreadable, but same style as St. 29  
in Katun 5; ~~and no others like them in style; both  
tapered: check 29 from photos to see if taper  
is symmetrical as for a stela - 11 is not (see skeeth  
& photo #54 (field No.))~~

9.7.0.0.0 Stela 43 (unreadable, but glyphs are incised - early)

9.8.0.0.0 Not found as yet: may easily be a ~~lintel~~ or stela  
buried in debris at top and on sides of Str. *R-4*

9.8.5.0.0 Stela 42 (plain - east side of Str. *R-3*)

9.8.10.0.0 Stela 44 ( " - west " " " " )

9.8.15.0.0 Stela 25.

9.9.0.0.0 Stela 28 - and follow Morley's list.

*9-4  
9-3*

*9.6.?  
9.7.?*

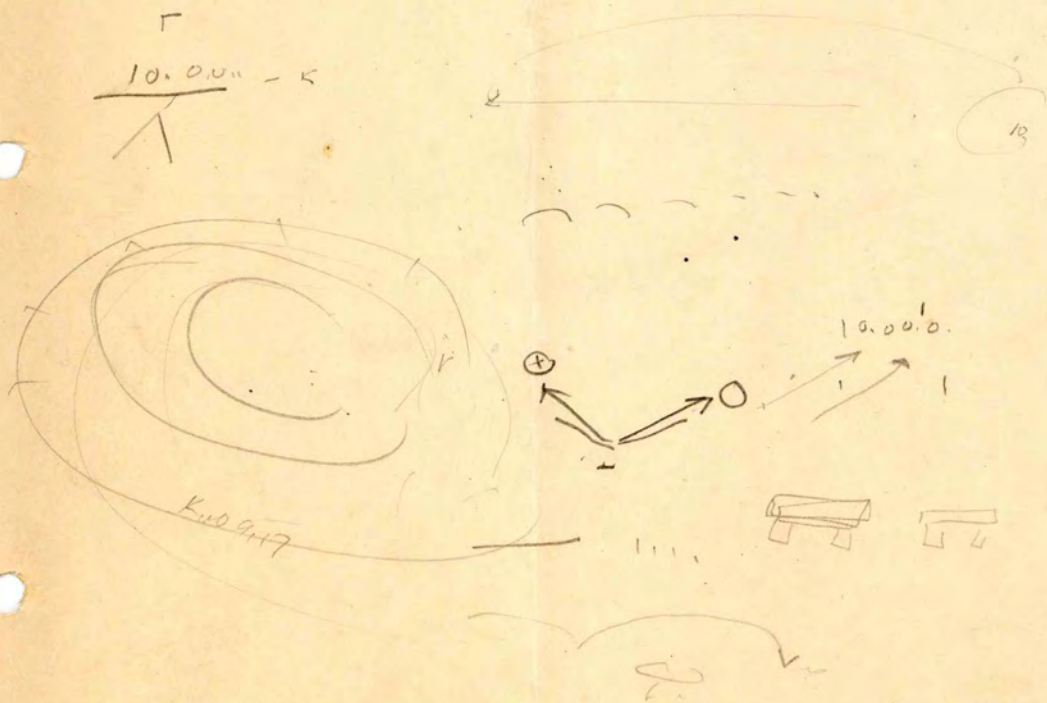
*9.8  
9.8*

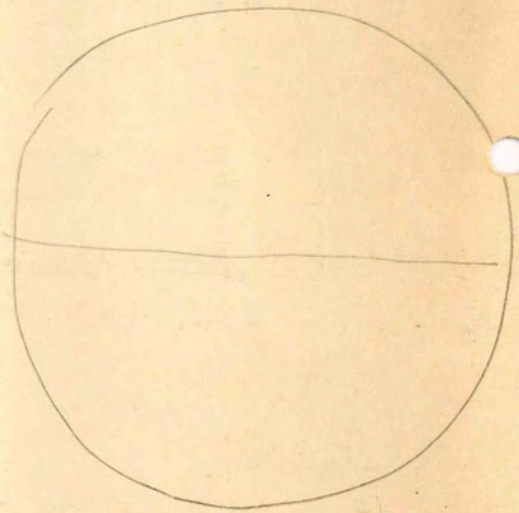
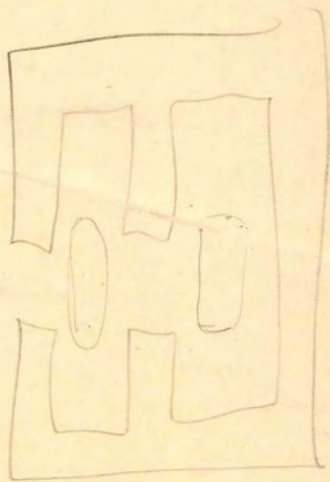
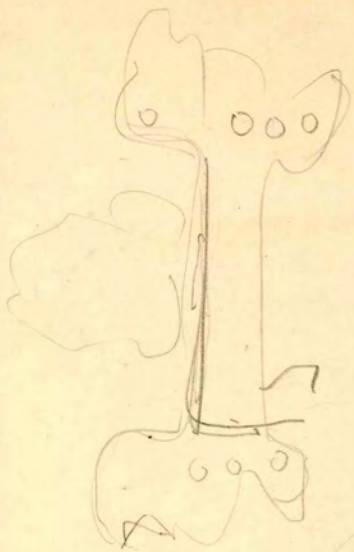
*Mississipi*



Pimejian's  
Tables. 7 to Malay, 1933

- 3 -  
 altar 4 - 1.83 (front) x 1.96 x 1.02 on base. (top .36 cm thick) <sup>high. (?)</sup>  
 " 3 - 1.96 x 1.33 x .75 high ± (top .34 thick)  
 (ne-sw)  
 (carving on edge only)  
 - plain squared legs.  
 " I 2.16 dia x — x 1.33 ± high (.42 thick)  
 (legs 1.37 high. (elph hands .84).





6 1415 11-1522  
 8 23 9-1529  
 2 42 10 37  
 4 48 40 42  
 1 54  
 3 63  
 7 79  
 5 86

Stela Dimensions  
 P.N. % to Morely, 1937

73  
 74  
 80

			<u>L.</u>	<u>W.</u>	<u>Th.</u>	<u>Up</u>	<u>Down</u>
	Sala 6	9.12.15.0.0	2.90	.81	.38	1.10±	
	" 8	9.13.0.0.0	4.00±	1.30	.43		1.23
	" 2	9.13.5.0.0	2.77	.76	.41	1.39	
	4	9.13.10.0.0	4.16	1.31	.42		
	1	9.13.15.0.0	4.34	1.27	.46	.18	
	3	9.14.0.0.0	4.14	1.31	.43		.20
	5	9.14.5.0.0	4.22	1.22	.36	.08	
	7	9.14.10.0.0	3.15	.96	.41		1.07
	23	9.14.15.0.0?	4.72	1.17 (to 1.06)	.41	1.57	
	40	9.15.0.0.0	3.96	1.09	.43		.76
	9	9.15.5.0.0	3.85±	1.09	.41	.25	
	10	9.15.10.0.0	4.10	1.02	.51		.11
	40	9.15.15.0.0	4.85	1.18	.46	.75	
	17	9.16.0.0.0 9.16.5.0.0	4.16	1.12	.38		.69
x	17	9.16.10.0.0??	4.16	1.12	.38		.60
x	16	9.16.15.0.0	3.56	1.15	.41		1.17
	13	9.17.0.0.0	2.39	.90	.43	1.42	
x	18	9.17.5.0.0?	3.81	1.12	.36	.56	
x	19	9.17.10.0.0??	4.37	1.40	.37		

(lower piece?)

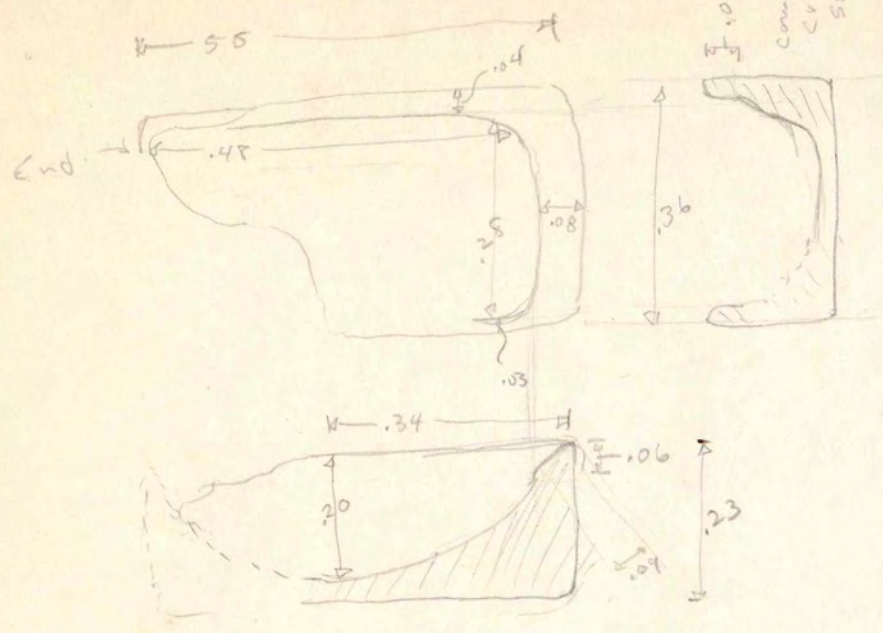
x = "the group" of which 1st may be the latest because it is highest.

No rule existed for either height or width during the well dated period 9.12.15.0.0 - 9.15.15.0.0 (3 Katuns). The arrangement of the doubtful groups itself violates the assumption - 17 should go after 16. This is using a non-existent rule when it is wanted, rejecting it when not

(J-13)

Metate from NE corner of LII (see photo)

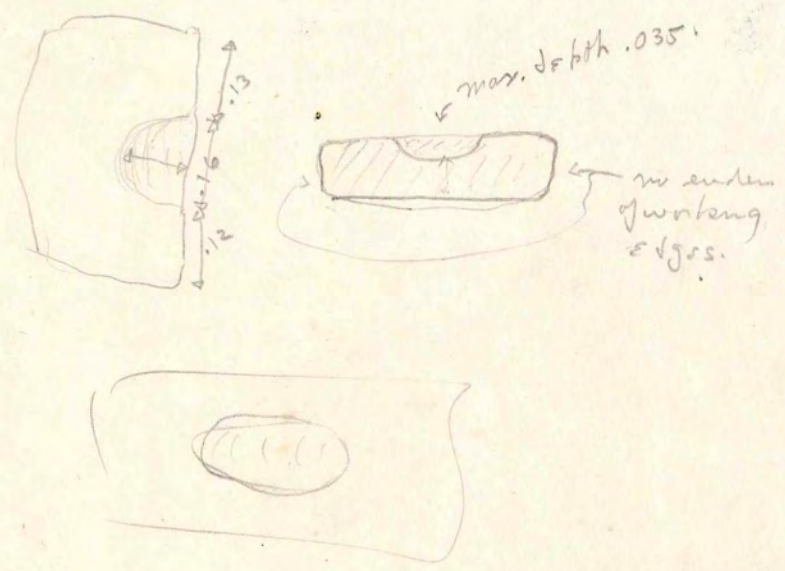
Stone -  
Miscellaneous stone  
objects + fragments.



Metates  
must have been  
drawn in field.

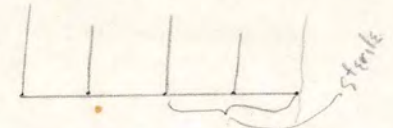
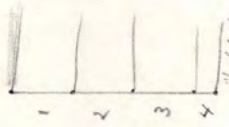
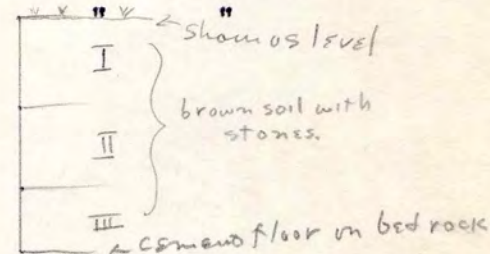
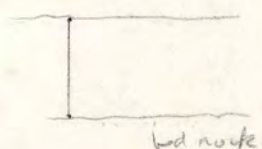
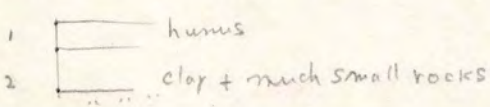
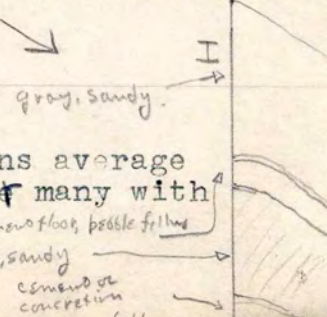
(J-11)

Metate? - from Ely side of L (debris) - see photo.



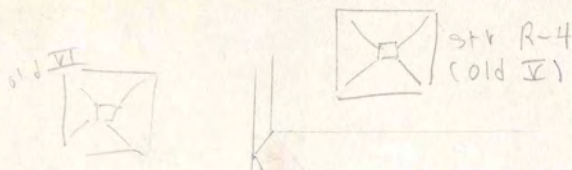
NB. Some of  
old metates for  
glyphs (see some  
photo - see from  
.035 to .042 -  
mostly small.

Data re bed rock depths, etc., from notes of Miss Butler on test pits dug in 1932.

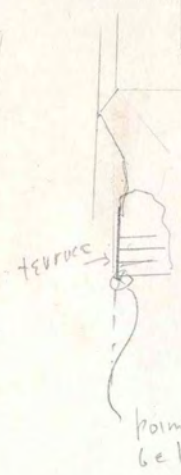
Pit No. on Map	Op. No.	Total Depth	Bed rock?	Sherds ?#	Walls, floors &c encountered and other general remarks.
1	W-27	1.80*	no	F	Brown earth changes to reddish at .50, to yellow at 1.00 to dark brown at 1.40. Sterile below .80. NE. Section - valley floor - "court" area.  Total 66
2	W-25	1.35	yes	M	Cement floor laid directly on bed rock. Cremil area, but adjoining house mounds  Total 420
3	W-19	1.55	yes	M	" " Same genl. location. Beside Sacbe? wall, N side, E side Δ42 wall, N side.  Shamos level } brown soil with stones. } cement floor on bed rock.
4	W-23	.65	yes	F	Cremil area.  bed rock. sherd - almost none.
5	W-24	.45	yes	A	Crem. area adjoining house mound.  1 humus 2 clay + much small rocks. Total sherds 36
6	W-9	2.10-1.35	no	A	Dug to embotido, from sloping surface. Sloping cement floor or concretion, over pebble fill, at .80. Soil gray sandy above this, brown sandy below. Second floor or flow of concretion .75 below the first. Cremil area.  I gray, sandy. } cement floor, pebble fill } brown, sandy } cement or concretion fill }

\* Note: under sherds, "no" means none, "F" means few, "A" means average amount, "M" means many; in each case relatively few or many with reference to the average - approximations only.

\* approximately

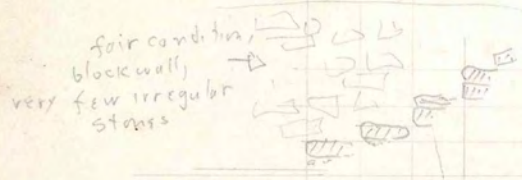


See Pans  
sketches



Gravel 1.50  
below lowest step ±.

Section through stuy.



fair condition,  
block wall,  
very few irregular  
steps

shape of stuy  
not particularly  
well squared.

Steps:  
risers about .25  
treads about .35 after  
the two  
the 2 risers only about .20

June - 1932

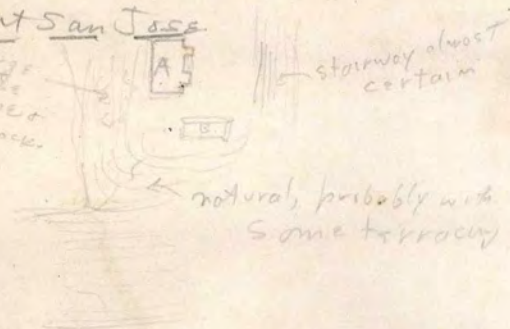
Mounds - 3 hrs from P.N. toward  
Tehuacan  
going the way: — from Tepeasco.



There is 20 to 30  
Mounds  
beyond (going  
to P.N.) Tepeasco  
Mundo Nuevo  
Camp - 4 or 5  
small shells on  
either side of  
road - creek  
at right.

at San Jose

Large  
stone  
bedrock



Trail - Los Rieles →  
Bodega

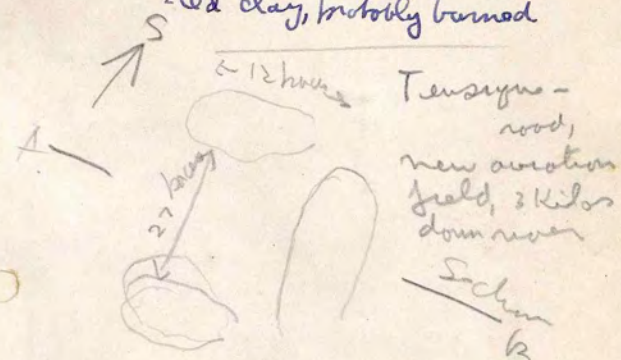
A - Flat top, vertical sided platform  
stairs set between balustrades

Mound - about 250 ft to left of road,  
Zapata to Palenque, about 1 1/2 leagues  
out of Zapata, shortly after passing  
group of thatched huts on right.



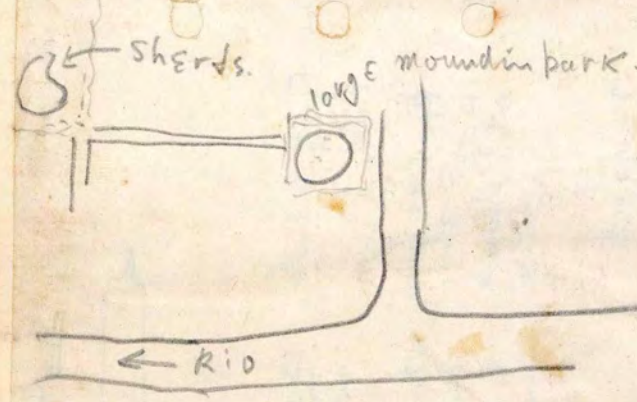
Oval, 14 x 22 meters,  
about my eye height.  
Covered with grass,  
same as field,  
except one patch -  
seems to be earth  
& nothing more.

earth contains lumps of hard  
red clay, probably burned



rolling country  
Earth + small rubble  
where broken - eroded  
to smooth contours  
Report many holes

Not P.N.  
is



Tehuacan

P.S. Mounds - Mota Sumbala

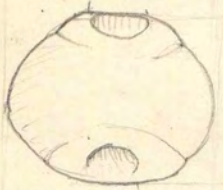
Miscellaneous Jadeite Forms

Bead - almost certainly from #XXVII (Site), 1932. (P. Negras)



1:1

shape due to  
shape of pebble?



Note "collar" on each  
end - poorly defined,  
but clear.

(obvious pebbles are incised)

Drawn in  
field?

Key to Re-assembly  
of Original notes (in  
folders).

By years, earliest at bottom.

- By staff member within the year.

- numbers at lower left corner  
indicate the order of sheets in the  
member's book as he brought it back -

in general, the order used in field: A sep. set of these  
numbers for each staff group in each year.

- Page numbers at upper right, with  
year indication, run through each year  
group, after re-arrangement of each staff  
section in most logical order possible.

These are for large reference in working up  
notes..

- In general, the order of re-arrangement:

General Plans & Sections.

Bldg.

Bldg. Platform.

Subst. Tenor.

Pyramid.

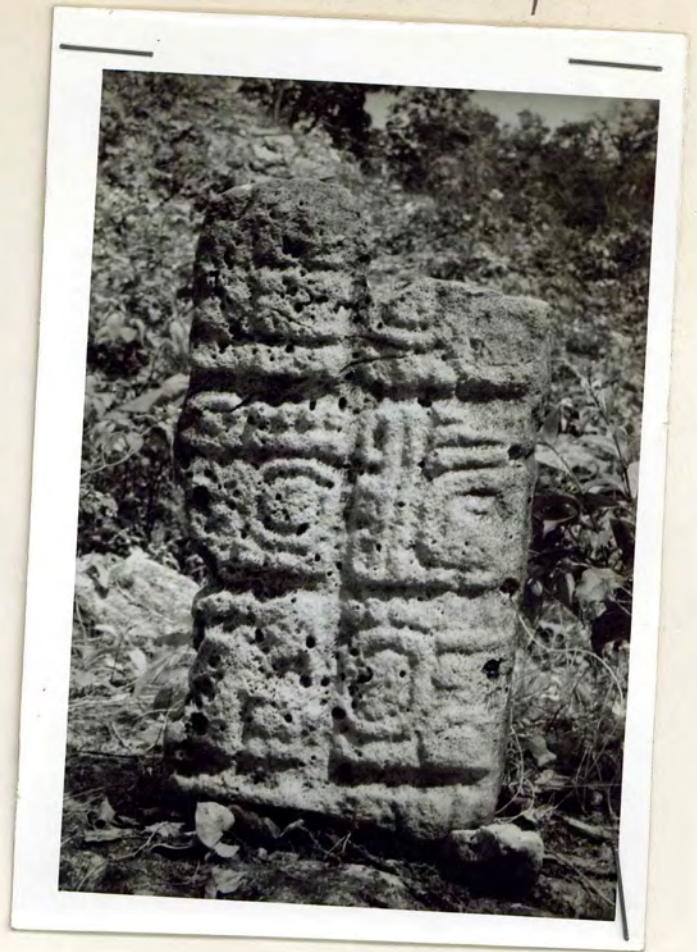
Basal Tenor.

Monuments.

Objs.

Reports  
in each  
staff section  
of each year,  
if warranted.

Piedras Negras.



Frag. 9 of Stela 39 (see notes,  
correspondence of Morley & Hill  
Andrews, 1940.  
photo by Hill.

See note  
by Andrews.  
This was not  
shown to Riese,  
1972.

Bill  
Andrews Memo -

PIEDRAS NEGRAS - Stela 47

39

25.  
Fr. (a).

A summary of the data connected with the finding  
of this monument and the inscription on it.

EWA - 3/19/40

This fragment was found on a visit to Piedras Negras January 2, 1940. At the time it was raining heavily, and practically no relief showed on the fragment. I left it after inquiring what it was. My guide informed me that it was a fragment Satterthwaite knew about, and as I came prepared with neither notes nor a map I took no further notice of the stone on this visit.

It was lying on the ground, none of it buried, relief face up..... right under a fragment of terrace which had been left standing at the southwestern corner of Str.K-5. It apparently came from the rubbish of this building -- but I could not tell whether it came from outside rubbish or whether it had been removed from inside the pyramid.

From here I went on upstream to Yaxchilan, and returned to Piedras Negras on January 28, at which time I had the first look at the sun on the whole trip. In these two hours of sunlight I rushed around photographing a large number of monuments. In the course of this hasty second tour. I tried moving this fragment into a more favorable light, and was surprised to find that although the erosion was such that no interior details of glyphs remained, the coefficients stood out fairly well. Therefore I took the accompanying photo.

On return to Chichen Itza in the present month, I set about to catalogue the considerable number of glyph photos I had been unable to identify at the site. It turned out that this fragment was not part of the stelae near K-5 (38 and 39), nor was it known to SGM at that time. On consulting SGM, he confirmed having received no information about its recent discovery, and informed me that it was unlikely that Satterthwaite knew of it, as he had recently written that no glyphic material turned up during the last temporada at P.N.

It thus appears to be a new monument, or rather fragment.

On it are six glyph blocks, representing the bottom of a panel. The upper fragments are missing. The crack passed thru the middle of the blocks we shall call A and B.

The following is the glyphic evidence now discernable:

A1 - gone

B1a - may have been a day-sign cartouche

B1b - may have been a month sign.

Neither part had a coeff. to the left, but there may have been one above, as on the other glyphs of this fragment.

A2a - is effaced, but seems not to have had a coefficient.

A2a - is a day-sign cartouche on a trinal support with a clear coefficient of 9 above. Interior details are effaced.

Piedras Negras - Stela 47 (?) - 2

- B2 - is a secondary series. Surely 11 kins, 11,12, or 13 Uinals. Kin coeff. to left. Uinal coeff. above.
- A3a - was probably the tun head, with a definite coefficient of either 3 or 4. 3 is much preferable.
- A3b - is too eroded to see any detail
- B3a - is a clear day sign cartouche with a trinal support and a quite clear coefficient of 4 above. No details are visible inside the cartouche.
- B3b - is very probably the month sign. The coefficient is certainly 6,7,8,9 or 10 - the last being highly improbable. The glyph is composed of an eroded Cauac form at bottom with a ruined element between it and the coefficient above. The month, therefore, was almost certainly Chen, Yax, Zac, or Ceh. As double superfixes giving the approximate form of the glypg under discussion may be found on all four of these months, little preference may be given, although the comb of Yax would make it least preferable.

If this date is connected with some period ending, the glyph at A3b might indicate that the C.R. date at B3 rather than the day at A2b would correspond to the ending.

The following are the two possible set-ups in view of the fact that one of the two calendar round expressions probably refers to some period ending.

$$A2b + \text{Sec.Ser.} = B3 \quad (I)$$

$$A2b - \text{Sec.Ser.} = B3 \quad (II)$$

Of the total range of possibilities, only 2 schemes emerge from our variants:

I.  $9 \text{ ? } + 4.13.11. = 4 \text{ ? } 6,7,8, \text{ or } 9 \text{ Chen, Yax, Zac, Ceh.}$

II.  $9 \text{ ? } - 3.12.11. = 4 \text{ ? } 6,7,8, \text{ or } 9 \text{ Chen, Yax, Zac, Ceh.}$

From here, we will make the assumption that one of the day declarations is a day Ahau and also a tun ending. This gives us two sets of possible locations in the Initial Series.

A.- If the last expression involves a day Ahau on a tun ending, there is but one position in Cycle 9:  
9.18.18.0.0. - 4 Ahau 8 Chen. And the inscription would take one of the following forms:

$$\begin{aligned} &9.18.18.0.0.-4 \text{ Ahau } 8 \text{ Chen} \\ &\quad 4.13.11. \quad (\text{subtract}) \\ &9.18.13.4.9.-9 \text{ Muluc } 2 \text{ Muan} \end{aligned}$$

or

$$\begin{aligned} &9.18.18.0.0.-4 \text{ Ahau } 8 \text{ Chen} \\ &\quad 3.12.11. \quad (\text{add}) \\ &9.19.1.12.11.-9 \text{ Chuen } 19 \text{ Uo} \end{aligned}$$

Piedras Negras - Stela 47 (?) - 3

B.- If the 1st expression is a day Ahau on a tun ending, the original possibilities rise to a large number. Of the 31 Cylce 9 tun endings on 9 Ahau, only one may be connected to our terminal date by adding 4.13.11. Of these 31 tun endings only 2 may be connected to the terminal date by subtracting 3.12.11. The three possibilities thus derived are:

- I.           9.2.15.0.0.-9 Ahau 3 Kayab  
              4.13.11.  
              9.2.19.13.11.- 4 Chuen 9 Zac
- II.           9. 9. 5. 0. 0.-9Ahau 18 Uo  
              3. 12.11.  
              9. 9. 1. 5. 9.-4 Muluc 7 Chen
- III.          9.12.10. 0. 0.-9 Ahau 18 Zotz  
              3.12.11.  
              9.12. 6. 5. 9.-4 Muluc 7 Zac

These three dates have much more in their favor than that of A, as all three are hotun-endings.

I is not probable because of its very early date - earlier than any other dates at Piedras Negras -- and much earlier than any hotun-marker known anywhere. I discard it with small hesitation. Furthermore, it would make the latest date 4.13.11. beyond the contemporaneous date -- which is not a common practise. Finally, we have seen that the reading of the tun coefficient of the Secondary Series is much better at 3 than at 4.

Between II and III, the choice is more difficult. The month coefficient is 7 in both cases, and the month glyph may read equally well Chen as Zac. Both these readings involve a secondary series tun coefficient of 3 -- which we pointed out above is preferable

On stylistic grounds, there is no preference that I can see between 9.9.5.0.0. and 9.12.10.0.0. as the date of these glyphs.

A point in favor of the earlier reading is that there already is a Piedras Negras monument dating from 9.12.10.0.0. (Stela 38), and no duplication of terminal dates is known among the many stelae at this site. 9.9.5.0.0., on the other hand, is "open" (Morley's assignment of Stela 24 to this date is supported by no glyphic evidence).

Provenience, from my present knowledge, offers no clue as to the date. Stelae 38 and 39 date the top terrace of K-5, I believe -- which would put a minumum date of 9.12.5.0.0. on

Piedras Negras - Stela 47 (?) - 3a

List of the 31 original possibilities of the location of the day 9 Ahau at tun endings in Cycle 9.

1. 9. 0.3. 0. 0.- 9 Ahau 18 Zac
2. 9. 0.16. 0. 0.-9 Ahau 13 Mol
3. 9. 1. 9. 0. 0.-9 Ahau 8 Tzec
4. 9. 2. 2. 0. 0.-9Ahau 3 Uo
5. 9. 2.15. 0. 0.-9Ahau 3 Kayab
6. 9. 3. 8. 0. 0.-9 Ahau 18 Mac
7. 9. 4. 1. 0. 0.-9 Ahau 13 Yax
8. 9. 4.14. 0. 0.-9 Ahau 8 Yaxkin
9. 9. 5. 7. 0. 0.-9 Ahau 3 Zotz
10. 9. 6. 0. 0. 0.-9 Ahau 3 Uayeb
11. 9. 6.13. 0. 0.-9 Ahau 18 Muan
12. 9. 7. 6. 0. 0.-9 Ahau 13 Ceh
13. 9. 7.19. 0. 0.-9 Ahau 8 Chen
14. 9. 8.12. 0. 0.-9 Ahau 3 Xul
15. 9. 9. 5. 0. 0.-9 Ahau 18 Uo
16. 9. 9.18. 0. 0.-9 Ahau 18 Kayab
17. 9.10.11. 0. 0.-9 Ahau 13 Kankin
18. 9.11. 4. 0. 0.-9 Ahau 8 Zac
19. 9.11.17. 0. 0.-9 Ahau 3 Mol
20. 9.12.10. 0. 0.-9 Ahau 18 Zotz
21. 9.13. 3. 0. 0.-9 Ahau 13 Pop
22. 9.13.16. 0. 0.-9 Ahau 13 Pax
23. 9.14. 9. 0. 0.-9 Ahau 8 Mac
24. 9.15. 2. 0. 0.-9 Ahau 3 Yax
- 25.- 9.15.15.0. 0.-9 Ahau 18 Xul
26. 9.16. 8. 0. 0.-9 Ahau 13 Zip
27. 9.17. 1. 0. 0.-9 Ahau 13 Cumhu
28. 9.17.14. 0. 0.-9 Ahau 8 Muan
29. 9.18. 7. 0. 0.-9Ahau 3 Ceh
30. 9.19. 0. 0. 0.-9 Ahau 18 Mol
31. 9.19.13. 0. 0.-9 Ahau 13 Tzec

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any monument within. Here we could probably make allowance for at least another katun for a re-used or discarded fragment. So we can safely say that if the fragment was in the interior rubble of the pyramid it must have dated from 9.9.5.0.0. However, there is another possibility. If the fragment was merely in the surface debris (which seems the more probable), it must have dated from after this date unless the ~~pyramid~~ terrace in which Stela 39 was laid considerably ante-dates the monument. In the case that this fragment must be assumed later than 9.12.5.0.0., it would nevertheless, most probably date considerably later; and the date 9.12.10.0.0. would be uncomfortably early. Any definite statements on this matter must be made after consulting Satterthwaite. But in advance of this, the date 9.9.5.0.0. seems better on the basis of provenience.

We therefore tentatively offer the date 9.9.5.0.0. 9 Ahau 18 Uo as the best reading for this monument.

~~9.12.10.0.0.~~