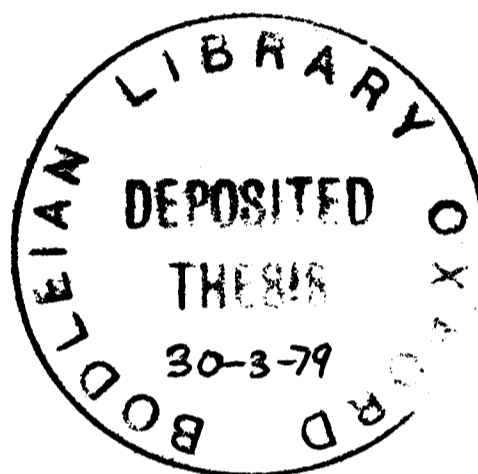


SIXTH-CENTURY FORTIFICATIONS IN BYZANTINE AFRICA
An Archaeological and Historical Study

by

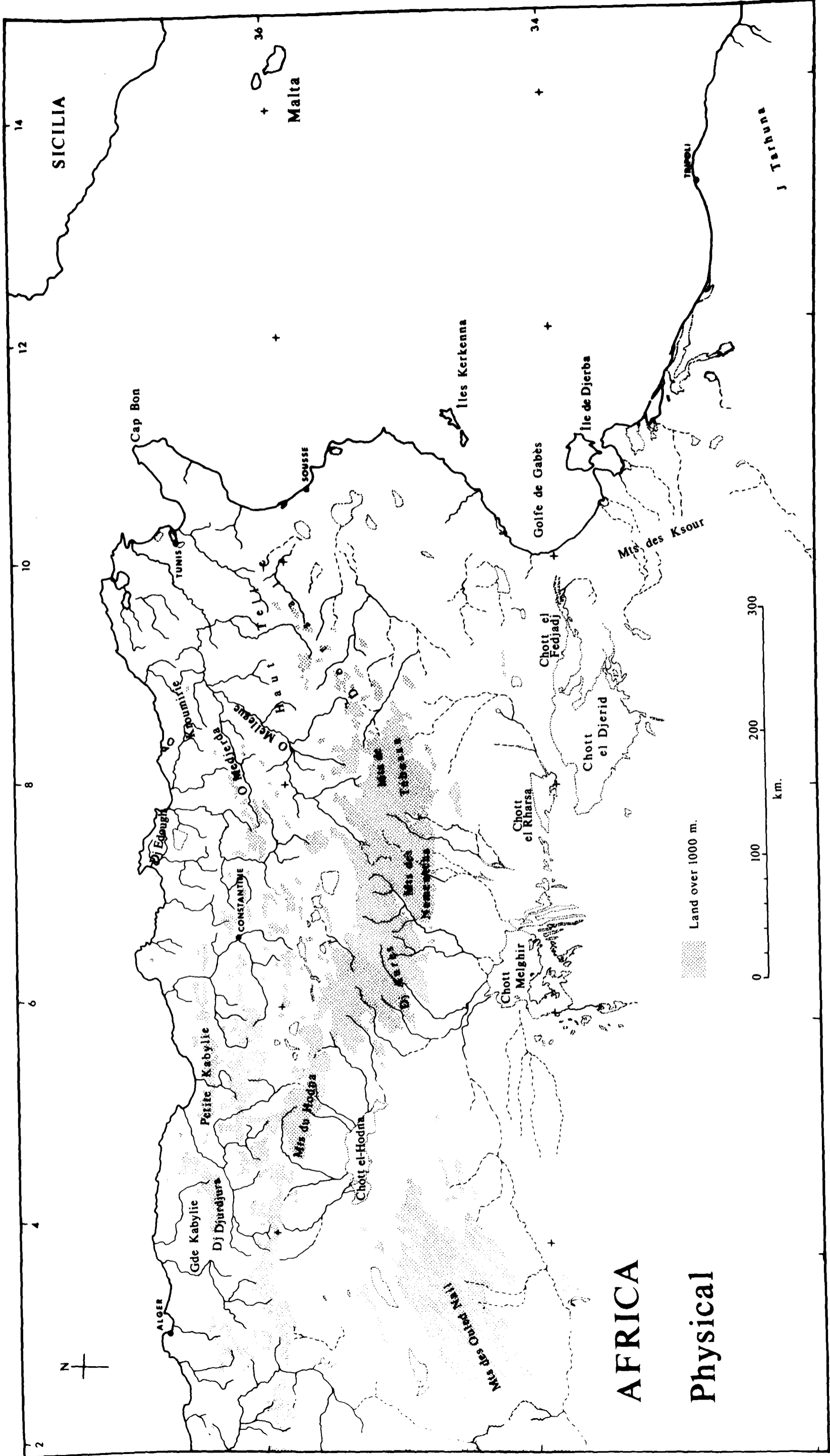
Reginald Denys Pringle



VOLUME THREE

Thesis presented at Oxford University
in the Faculty of Anthropology and Geography
in fulfilment of the requirements
of the Degree of Doctor of Philosophy
Trinity Term 1978 [1979]

MAPS 1 - 7.

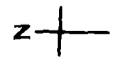


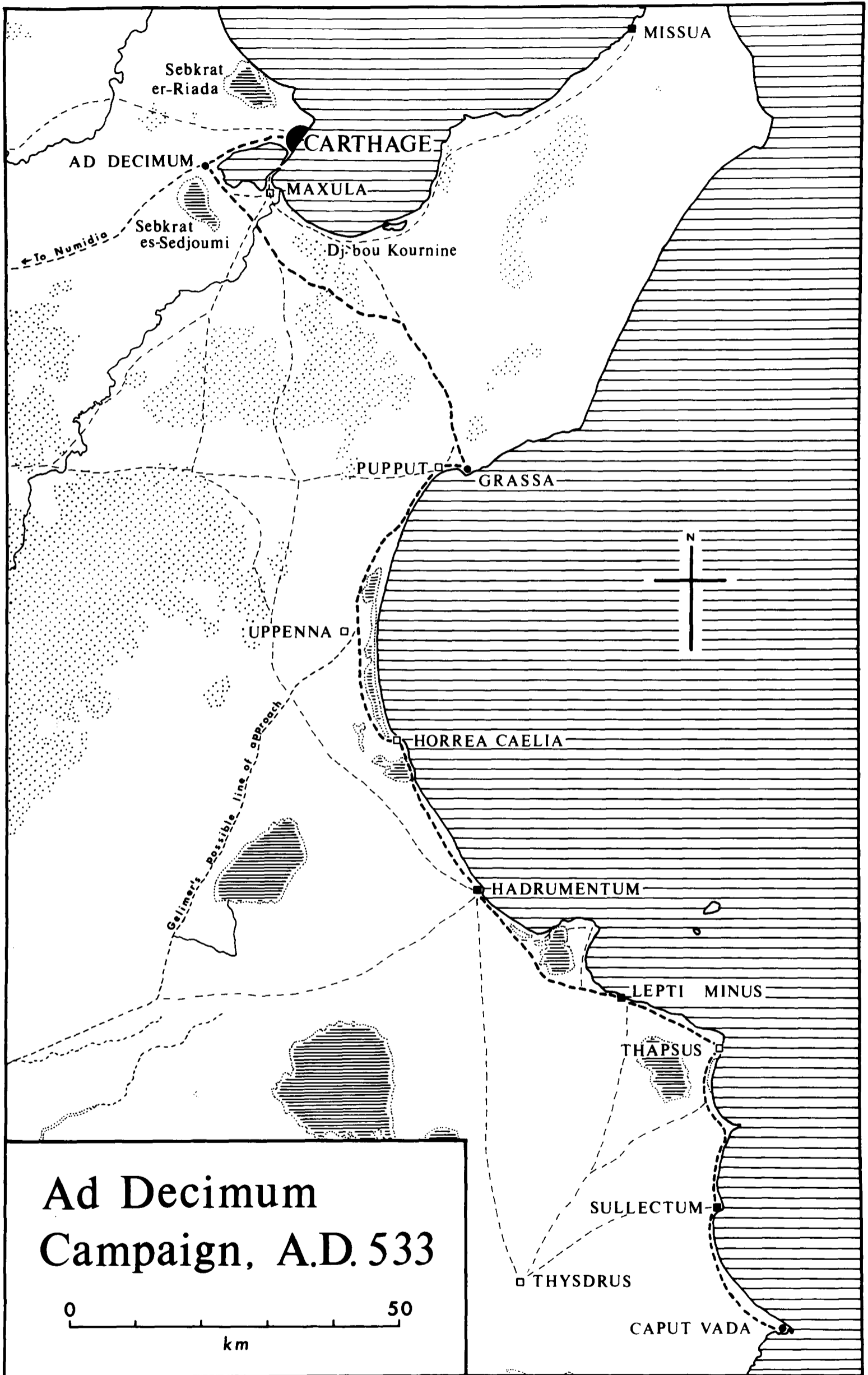
AFRICA

Physical

Land over 1000 m.

0 100 200 300 km.





Ad Decimum Campaign, A.D. 533

0 50
km

Map 3. Africa: Distribution of Byzantine fortifications under Justinian.

Note: The following table, besides serving as a key to the Map, indicates the nature of the evidence (archaeological, epigraphic, literary) for the existence of fortifications at each site. Full discussion of this evidence will be found in the relevant Gazetteer, to which reference is made in the fourth column of the table. The fifth column indicates the Byzantine province in which the site lay. Cebar (no. 13) and Septem (no. 35) are listed in the table but do not appear on the Map.

Site No.	Name	Nature of evidence:			Gaz.	Prov.
		Arch.	Epig.	Lit.		
<u>JUSTINIAN (533-565)</u>						
1.	CARTHAGO IVSTINIANA	x		x	AA	CP
2.	AD CENTENARIVM			x	AA	N
3.	AD TVRRES			?x	AC	N
4.	Aïn Bou Driès (Hr.)	x	x		AA	B
5.	AMMAEDARA	x		x	AA	NP
6.	BADIAS			x	AA	N
7.	BAGAI	x	x	x	AA	N
8.	Bordj Hallal	x	x		AA	NP
9.	CAESAREA	?x		x	AA	MC
10.	CALAMA	x	x	x	AA	NP
11.	CAPSA IVSTINIANA	?x	x	x	AA	B
12.	CAPVT VADA			x	AA	B
13.	CEBAR			x	CA	B
14.	CHVSIRA	x	x		AA	B
15.	CONSTANTINA	x		x	AA	N
16.	CVLVLIS THEODORIANA	x	x	x	AA	B
17.	DIANA VETERANORVM	x		?x	AB	N
18.	GADIAVFALA	x	x		AA	N
19.	HADRVMENTVM IVSTINIANVM			x	AA	B
20.	HIPPO REGIVS	x		x	AA	NP
21.	Ksar Belezma	x	x		AA	N
22.	Ksar Graouch	x			AB	B
23.	LARIBVS	x		x	AA	NP
24.	LARISCVS	?x		x	AA	B
25.	LEPCIS MAGNA	x		x	AA	T

Map 3 (cont.)

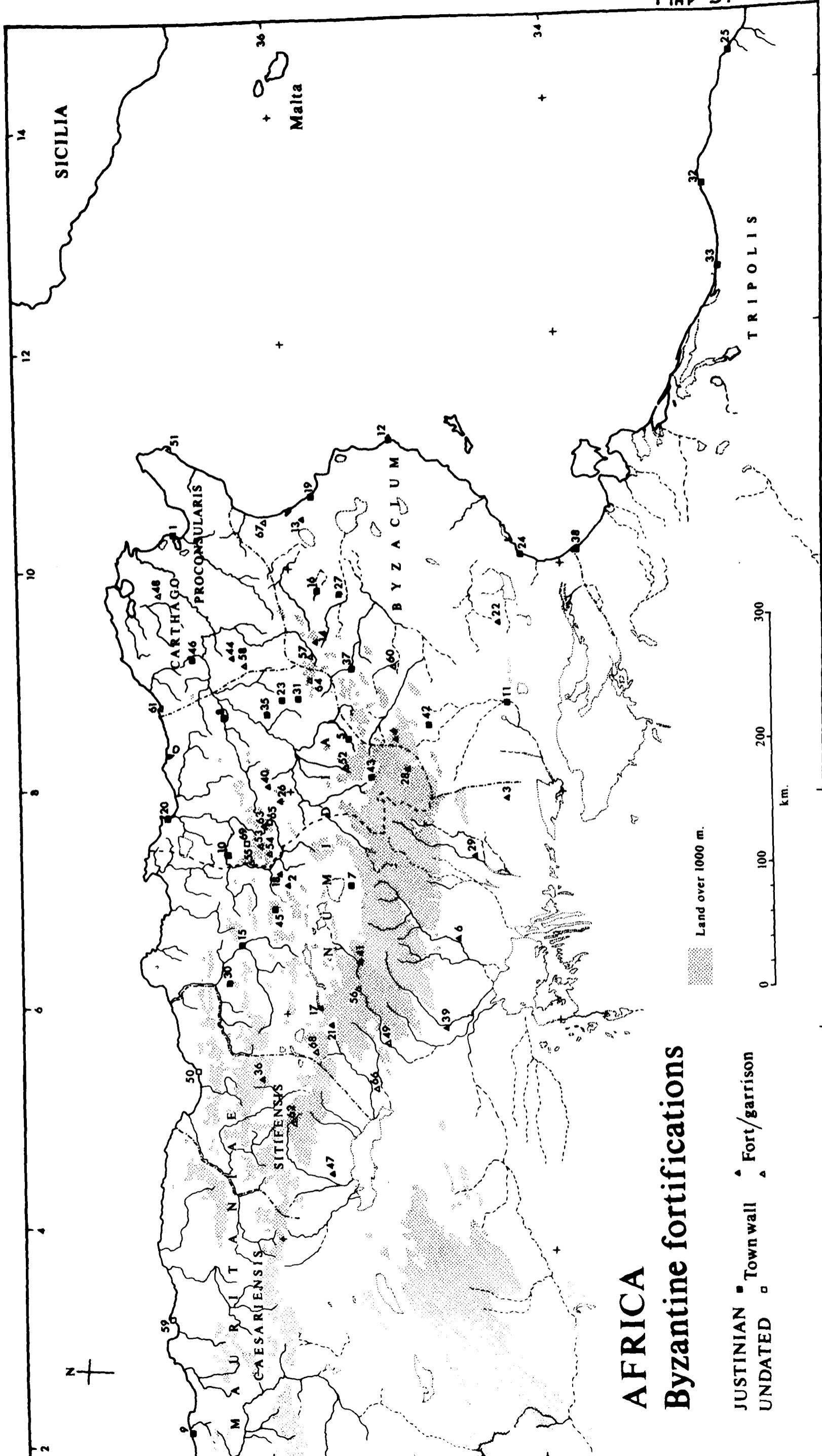
Site No.	Name	Nature of evidence:			Gaz.	Prov.
		Arch.	Epig.	Lit.		
26.	MADAVROS	x	x		AA	NP
27.	*MAMMA			x	AA	B
28.	MASTICANA	x	x		AA	NP
29.	MIDILI (?)			?x	AC	N
30.	MILEV	x		x	AA	N
31.	OBBA			?x	AC	NP
32.	OEA			x	AA	T
33.	SABRATHA	x		x	AA	T
34.	SEPTEM			x	AA	MC
35.	SICCA VENERIA	x		x	AA	NP
36.	SITIFIS	x	x	x	AA	MS/N
37.	SVFES	x	x		AA	B
38.	TACAPES			?x	AC	T
39.	THABVDEOS		?x	?x	AC	N
40.	THAGVRA	x	x		AA	NP
41.	THAMVGADI	x	x	x	AA	N
42.	THELEPTE	x		x	AA	B
43.	THEVESTE	x	x		AA	NP
44.	THVGGGA	x		x	AA	CP
45.	TIGISI	x	x	x	AA	N
46.	VAGA THEODORIANA	x	x	x	AA	CP
47.	ZABI IVSTINIANA		x		AA	MS/-

UNDATED

48.	Ain Metouia	x			AB	CP
49.	BVRGVS SPECVLATORIVS	?x	x		AC	N
50.	CHOBA	x			AB	MS?/MC
51.	CLVPEA	?x		x	AC	CP
52.	Gastal	x			AB	NP
53.	Guelâa Sidi Yahia	x			AB	NP
54.	Kef el-Kherraz	x			AB	NP
55.	Ksar Otsman	x			AB	NP
56.	LAMBAESIS	x		x	AC	N

Map 3 (cont.)

Site No.	Name	Nature of evidence:			Gaz.	Prov.
		Arch.	Epig.	Lit.		
57.	MACTARIS	x			AB	B
58.	MVSTI	x			AB	CP
59.	RVSGVNIAE	x	x		AA	MC
60.	SVFETVLA		x		AC	B
61.	THABRACA		x		AA	CP
62.	THAMALVLLA	x			AB	MS/?N
63.	THVBVRSICV NVMIDIARVM	x			AB	NP
64.	THVGGA TERESENTINA	x			AB	NP
65.	TIPASA (Tifech)	x			AB	NP
66.	TVBVNAE	x			AB	N
67.	VPPENNA	x			AB	B
68.	ZARAI	x			AB	N
69.	ZATTARA	x			AB	NP

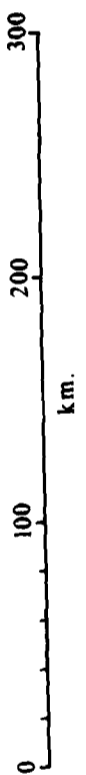


AFRICA

Byzantine fortifications

JUSTINIAN ■ Town wall ▲ Fort/garrison
 UNDATED □

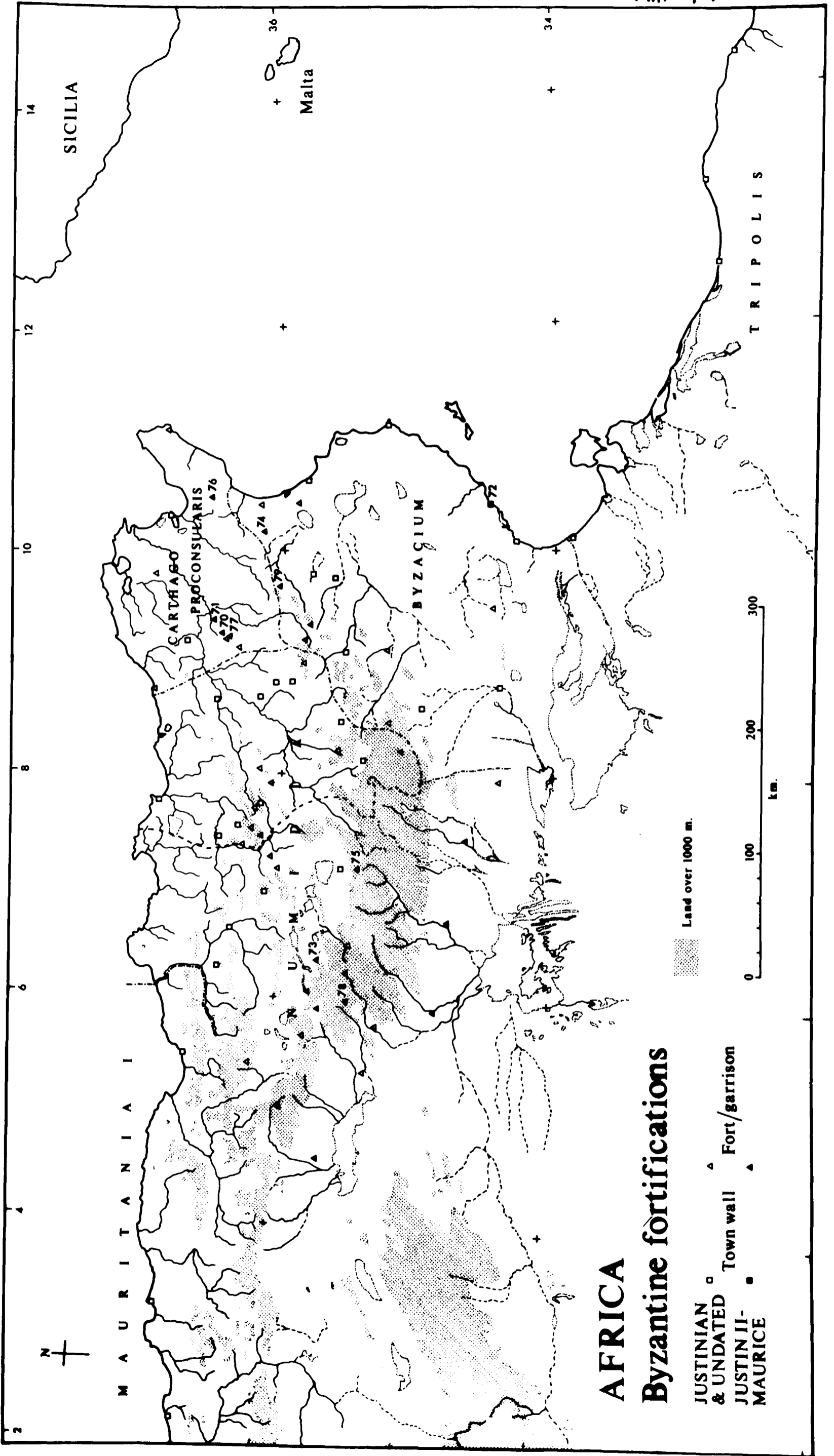
Land over 1000 m.



Map 4. Africa: Distribution of Byzantine fortifications after Justinian.

See Note to Map 3.

Site		Nature of evidence:			Gaz.	Prov.
No.	Name	Arch.	Epig.	Lit.		
<u>JUSTIN II (565-578)</u>						
70.	THVBVRSICV BVRE	x	x		AA	CP
71.	TIGNICA	x			AB	CP
<u>JUSTIN II WITH TIBERIUS CAESAR (574-578)</u>						
72.	IVNCI SOFIANA	?x	x	x	AA	B
<u>TIBERIUS II CONSTANTINE (578-582)</u>						
73.	Ain el-Ksar	x	x		AA	N
74.	ANASTASIANA	x	x		AA	B
75.	MASCVLA TIBERIA		x		AA	N
76.	TVBERNVC	x	x		AA	CP
<u>MAURICE (582-602)</u>						
77.	AGBIA	x			AB	CP
78.	Bordj el-Ksour	?x	?x		AC	N
79.	LIMISA	x	x		AA	B

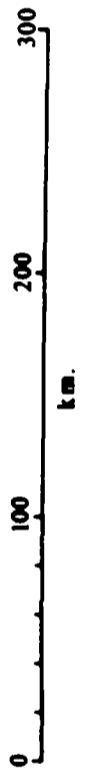


AFRICA

Byzantine fortifications

- JUSTINIAN & UNDATED Town wall Fort/garrison
- JUSTIN II-MAURICE

Land over 1000 m.



Map 5. Africa: Location of fortifications of uncertain Byzantine identification.

Note: This Map also shows the location of the fortified church enceinte built at Hr. el-Ksour under Heraclius.

Site

No. Name Gaz. Prov.

HERACLIUS AND HERACLIUS CONSTANTINE (612-641)

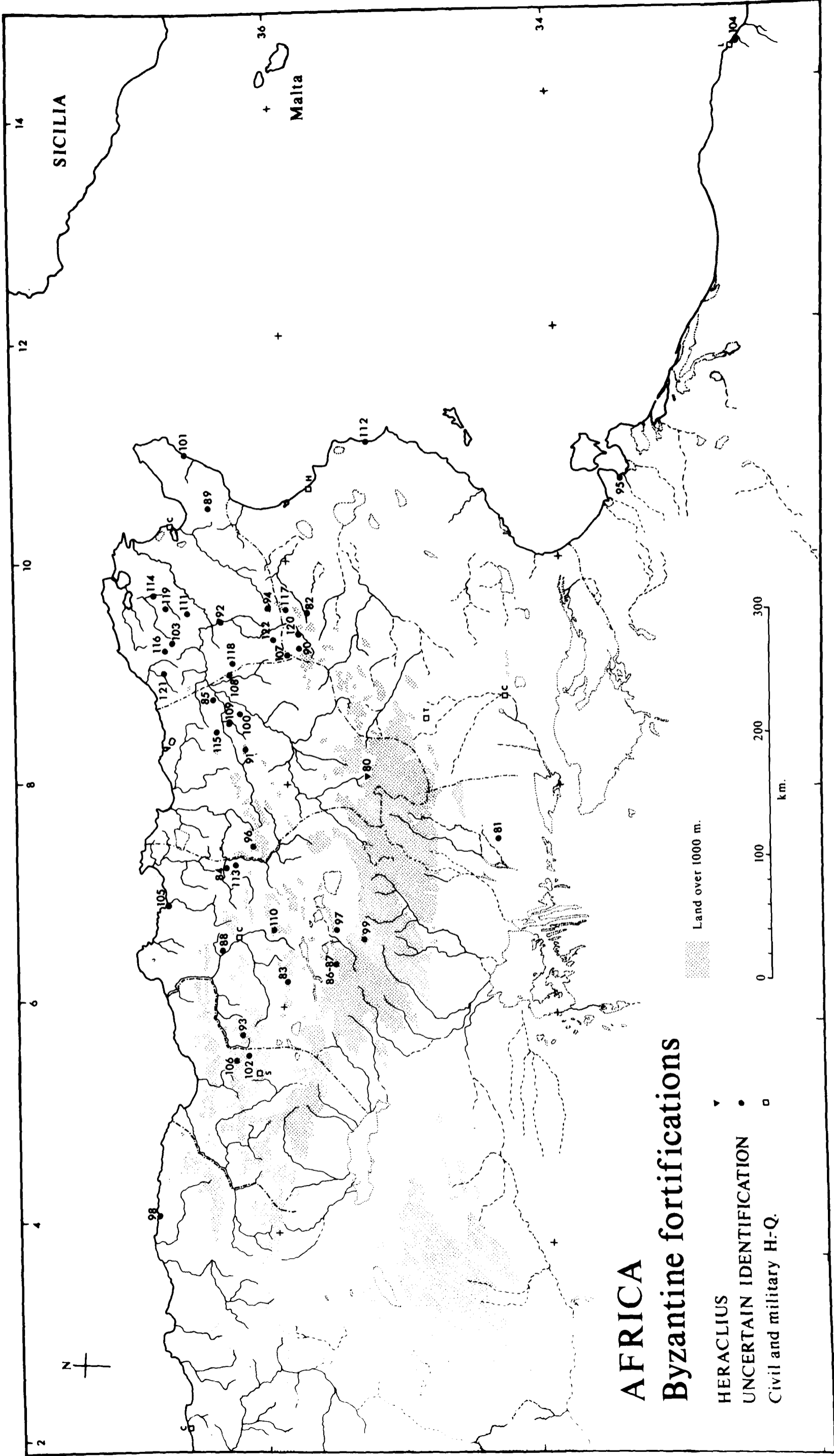
80. Ksour (Hr. el-) AC NP

UNCERTAIN IDENTIFICATION

81.	AD MAIORES	B	N
82.	AGGAR	B	B
83.	Ain Mchira	B	N
84.	AQUAE THIBILITANAE	B	N
85.	BVLLA REGIA	B	NP
86.	CASAE (i)	B	N
87.	CASAE (ii)	B	N
88.	CASTELLVM TIDDITANORVM	B	N
89.	CILIBIA	B	CP
90.	CIVITAS A...	B	B
91.	CIVITAS POPTHENSIS	B	NP
92.	COREVA	B	CP
93.	CVICVL	B	N
94.	FVRNOS MAIVS	B	CP
95.	GIGTHIS	B	T
96.	Guelâa Bou Atfan	B	NP
97.	Guessès (Hr.)	B	N
98.	IOMNIVM	B	MC
99.	Ksar (Hr. el-)	B	N
100.	Ksar Ghazelli (Hr.)	B	NP
101.	Ksar Lebna	B	CP
102.	MOPTH..., MOPTI	B	MS/N
103.	Nagachia (Hr.)	B	CP
104.	Ras el-Hammam	B	T
105.	RVSICADE	B	N

Map 5 (cont.)

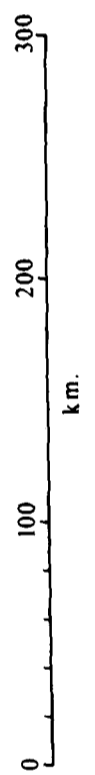
Site No.	Name	Gaz.	Prov.
106.	SATAFI	B	MS/N
107.	Seba Biar	B	CP
108.	Sidi Bellaoui	B	NP
109.	Sidi Bou Goussa (Hr.)	B	NP
110.	SILA	B	N
111.	SVA	B	NP
112.	SVLLECTHVM	B	B
113.	THIBILIS	B	N
114.	THIZICA	B	CP
115.	THVBVRNICA	B	NP
116.	THVNIGABA	B	CP
117.	VAZI SARRA	B	B
118.	VCHI MAIVS	B	CP
119.	VREV	B	CP
120.	VZAPPA	B	B
121.	Zaga (Hr.)	B	CP
122.	ZAMA MINOR	B	CP



AFRICA
Byzantine fortifications

- ▼ HERACLIUS
- UNCERTAIN IDENTIFICATION
- Civil and military H.-Q.

Land over 1000 m.



Map 6. Africa: Location of towns referred to by George of Cyprus
(A.D. c. 600).

Note that sites whose number is preceded by a cross do not appear on the Map.

No. Honigman (ed.) Gelzer (ed.) Latin name Gaz. Ch. II.7.

CARTHAGO PROCONSULARIS

640 (Καρταγέννα) (Καρταγέννα) CARTHAGO IVST.AA 93 n. 68.

BYZACIUM

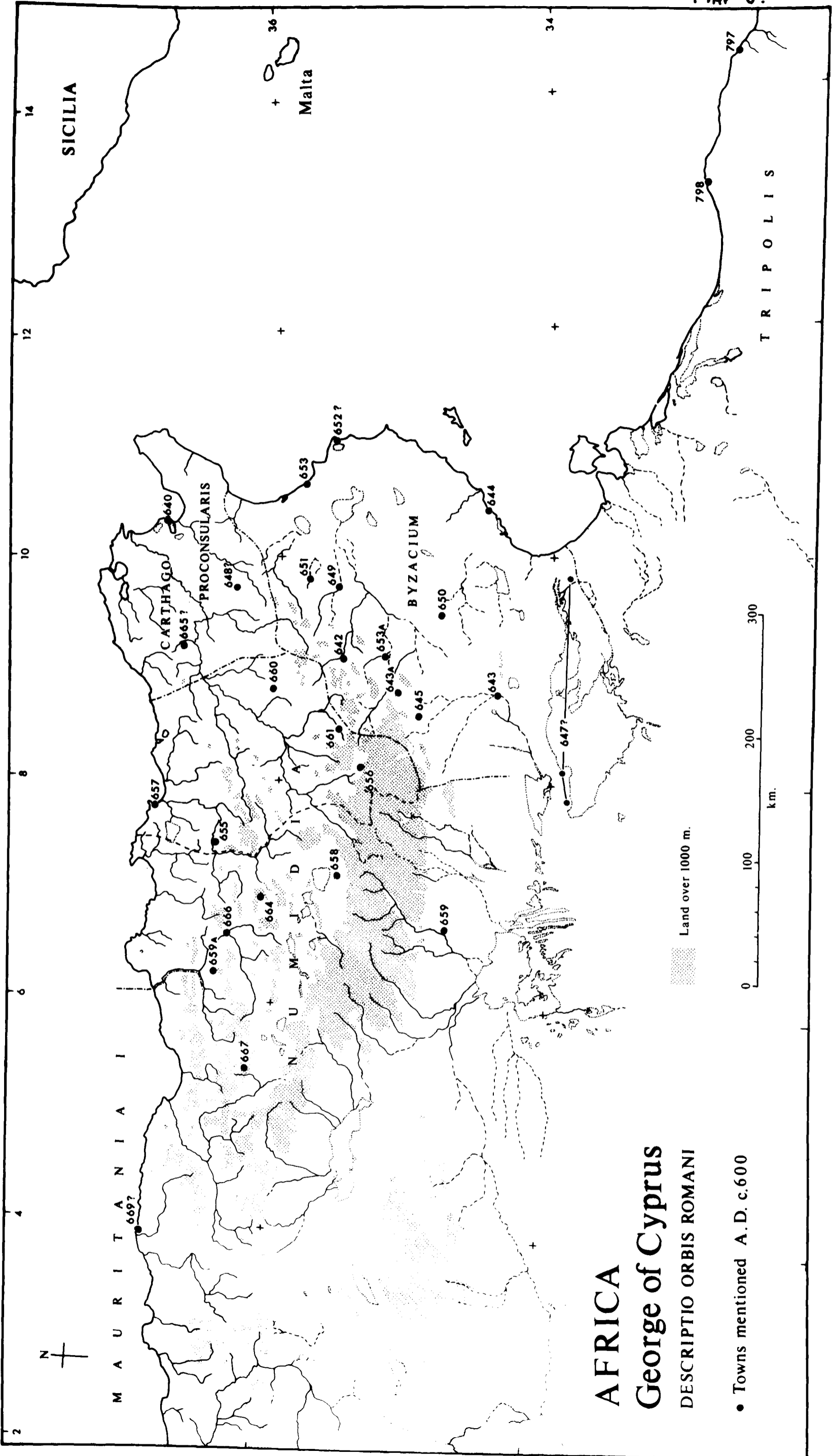
642 Σοβίβα Σοβίβα SVFES AA 94 n. 74.
 643 Κάψα Καμψία CAPSA IVST. AA 94 n. 74.
 643a Κίλλιον Κίλεως CILLIVM - 94 n. 74.
 644 'Ιοβγχα 'Ιοβγκης IVNCI
 SOFIANA AA 94 n. 74.
 645 Τελεπρή Ταλέπτης THELEPTE AA 94 n. 74.
 +646 Κασακαλάναι Κάσαλα *CASAE
 CALANAE - 94 n. 75.
 647 Καστέλλια Καστέλλαι - - 94 n. 76.
 648 Πέτζανα Πέτζανα APISA
 MAIVS (?) - 94 n. 77.
 649 Μάμμα Μάμιδα *MAMMA AA 94 n. 74.
 650 Μαδασοῦμα Μαδασοῦβα MADARSVMA - 94 n. 74.
 651 Κοβλουλις Κολούλης CVLVVIS
 THEODORIANA AA 94 n. 74.
 652 Θάψος (?) Κάψης THAPSVS (?) - 94 n. 74.
 653 'Αδρῦμητον 'Αδραμυττώ HADRUMENTVM
 IVST. AA 94 n. 74.
 653a Κάστρον Σουφήτιλα Κάστρον Σουφίτηχα SVFETVLA AC 94 n. 74.

NVMIDIA PROCONSULARIS

655 Κάλαμα Καλάμα CALAMA AA 93-94 n. 70.
 656 Τεβέστη Τεβέστη THEVESTE AA 93-94 n. 70.
 657 'Ιππων Νουμιδίας 'Ιππων Νουζιδίας HIPPO
 REGIVS AA 93-94 n. 70.
 660 Λαρίβους Ληράδους LARIBVS AA 93-94 n. 70.
 661 Κάστρα 'Αμμέδερα Κάστρον Βέδερα AMMAEDARA AA 93-94 n. 70.

Map 6 (cont.)

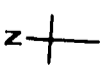
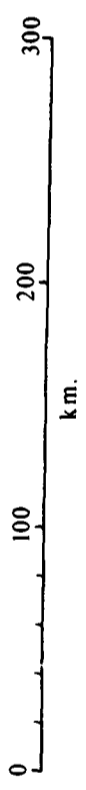
No.	Honigman (ed.)	Gelzer (ed.)	Latin name	Gaz.	Ch. II.7.
+662	Σκίλλι	Σκίλη	SCILLIVM	CA	93-94 n. 70.
665	Βάγα	Βάγης	VAGA THEOD. (?)	AA	94 n. 70.
<u>NVMIDIA</u>					
658	Κάστρα Βάγαϊ	Κασταβάγαι	BAGAI	AA	94 n. 71.
659	Βάδης	Βάδης	BADIAS	AA	94 n. 71.
659a	Μίλεον	Μήλεον	MILEV	AA	94 n. 71.
+663	Ἰζιριανήσιον	Ἡγηρινήσιον	-	-	94 n. 71.
664	Τίγισις	Τιτήσιον	TIGISI	AA	94 n. 71.
666	Κωνσταντίνη	Κωνσταντίνη	CONSTANTINA	AA	94 n. 71.
667	Σίτιφίς	Σίτιφος	SITIFIS	AA	94 n. 71., n. 73.
<u>MAURITANIA PRIMA</u>					
669	Ῥουσοκούβρον (?)	Ῥινοκουροβρων	RVSVCCVRV (?)	-	94 n. 78.
<u>MAURITANIA SECUNDA</u>					
+671a	Σέπτον	Σέπτον	SEPTEM	AA	94 n. 80.
<u>DIOCESE OF EGYPT</u>					
<u>TRIPOLIS</u>					
+796	Τόσιβα	Τοσίβων	-	-	93 n. 66.
797	Λέπτις	Λεπτιδος	LEPCIS MAGNA	AA	93 n. 66.
798	Οἶα	Ἦων	OEA	AA	93 n. 66.



AFRICA
George of Cyprus
DESCRIPTIO ORBIS ROMANI

• Towns mentioned A. D. c. 600

Land over 1000 m.



M A U R I T A N I A

SICILIA

CARTHAGO

PROCONSULARIS

NUMIDIA

BYZACIUM

TRIPOLIS

Malta

14

12

10

8

6

4

2

36

34

798

797

653

644

650

645

643

647?

656

658

659

657

655

659A

666

667

664

660

661

662

642

651

648?

665?

+

+

+

+

+

+

+

+

+

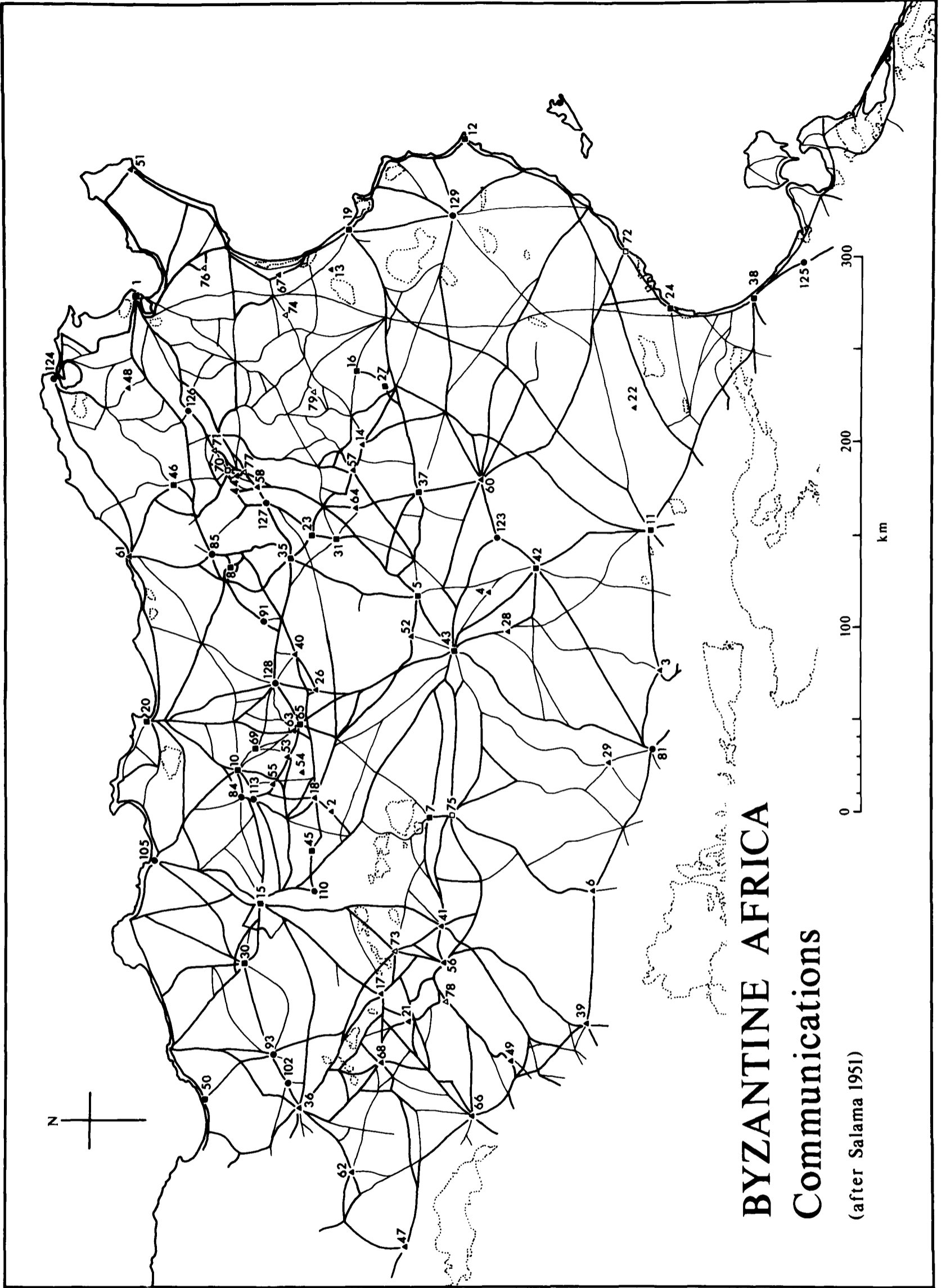
+

+

Map 7. Byzantine Africa: Communications (after Salama 1951).

The site numbers correspond with those given in the keys accompanying Maps 3-5 with the following additions:

- 123. CILLIVM
- 124. HIPPO DIARRHYTVS
- 125. MARTA
- 126. MEMBRESSA
- 127. THACIA
- 128. THAGASTE
- 129. THYSDRVS



BYZANTINE AFRICA

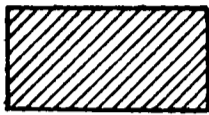
Communications

(after Salama 1951)

FIGURES 1 - 49.

KEY TO FIGURES 2-44 AND 48.

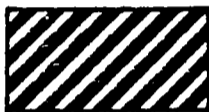
The following shading is used to denote masonry



predating the main Byzantine phase



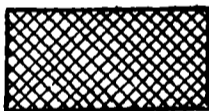
representing the main Byzantine phase



representing the main Byzantine phase
(hypothetical)



associated with a different Byzantine phase



associated with a late or post-Byzantine phase

FIGURE 1.

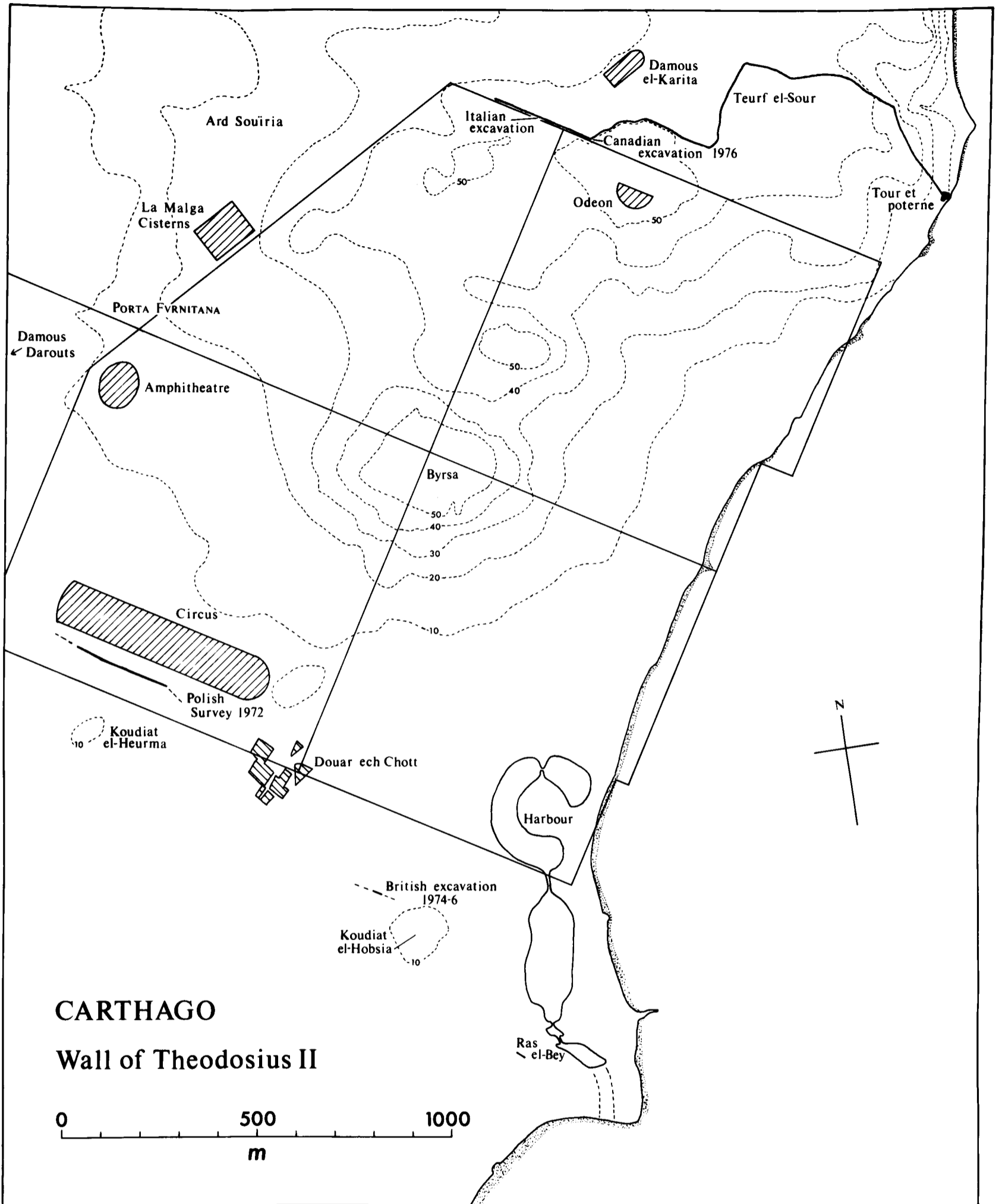


FIGURE 2.

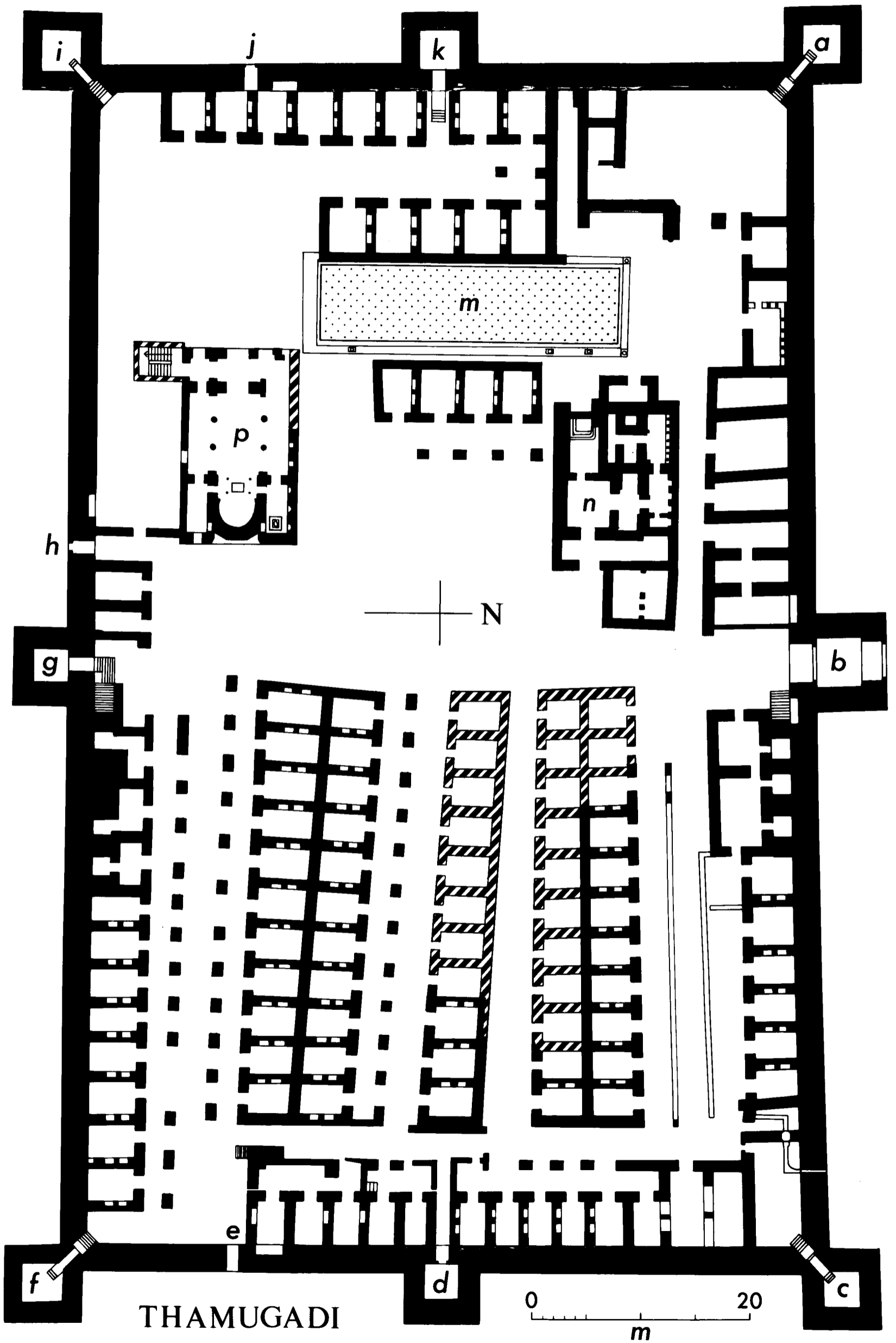
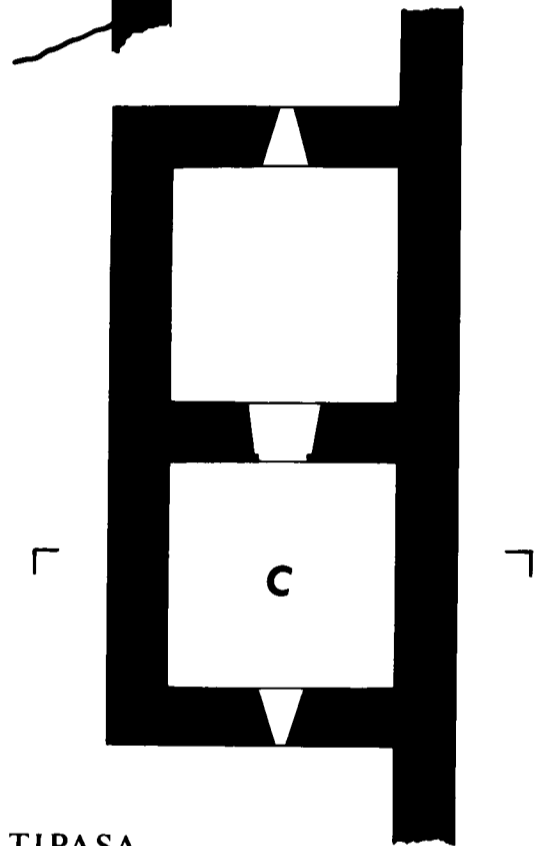
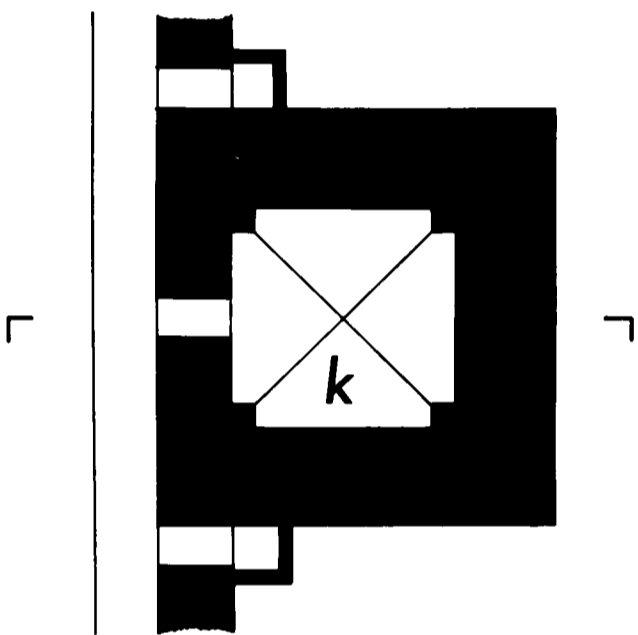
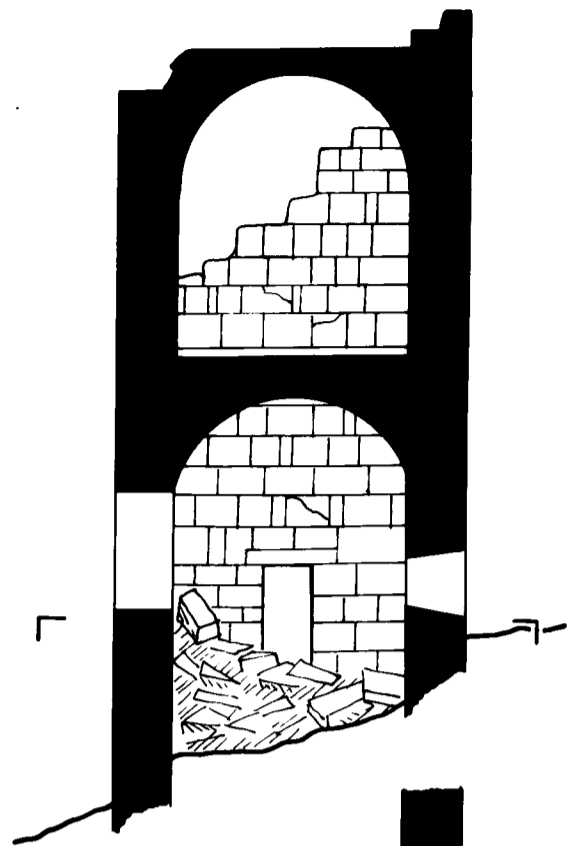
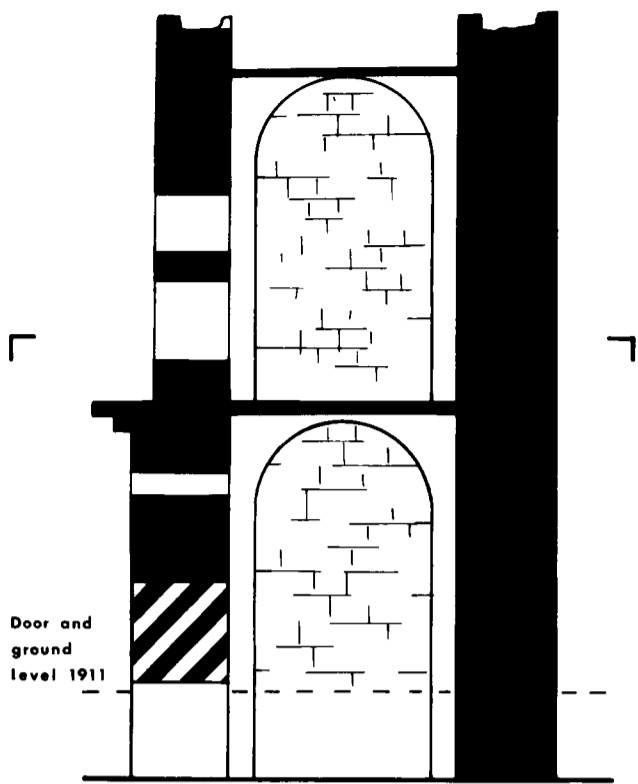
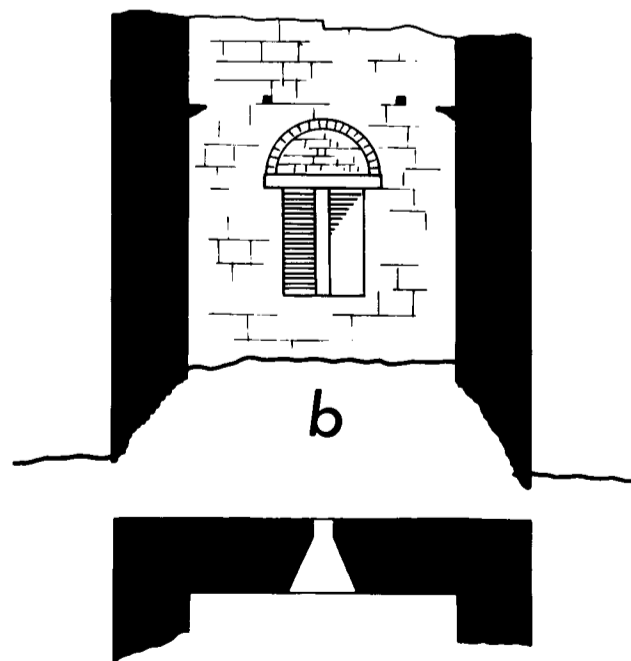
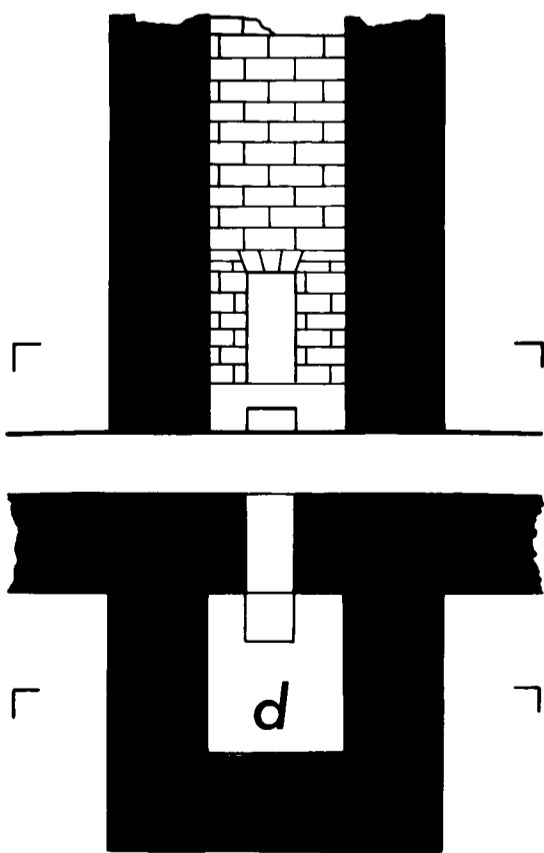


FIGURE 3.



THEUESTE

TIPASA



TUBUNAE

THUBURSICU BURE

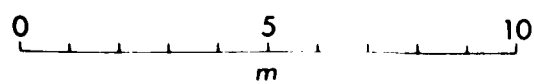
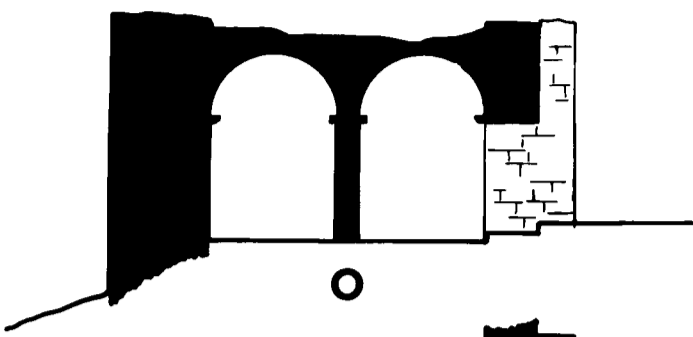
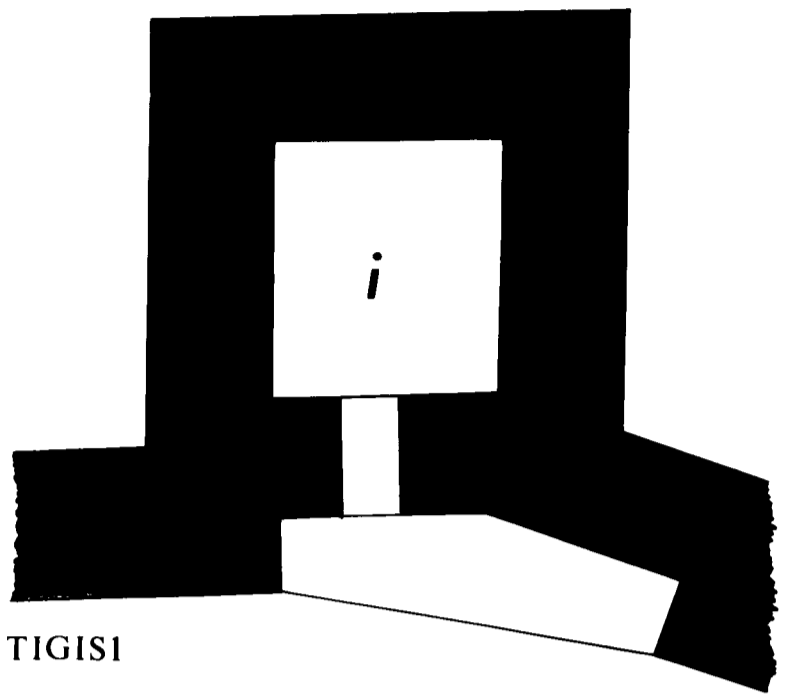
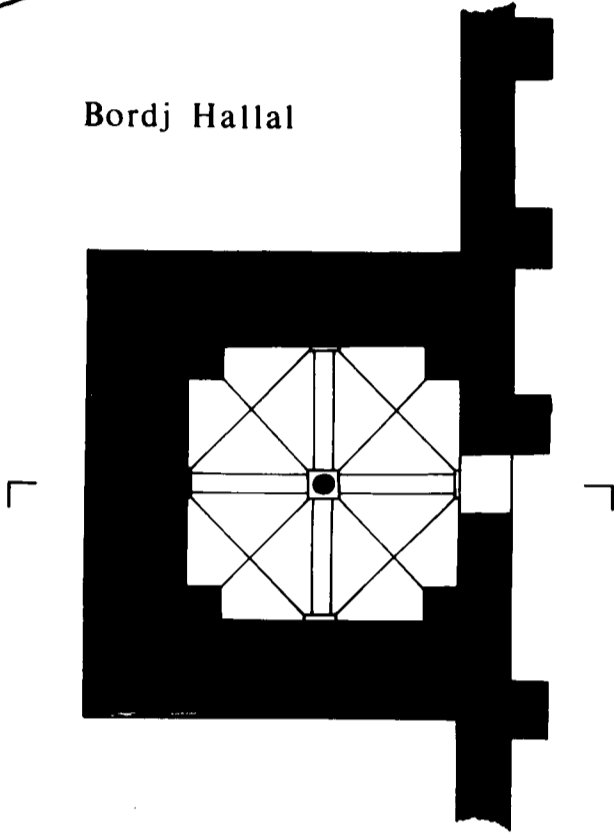


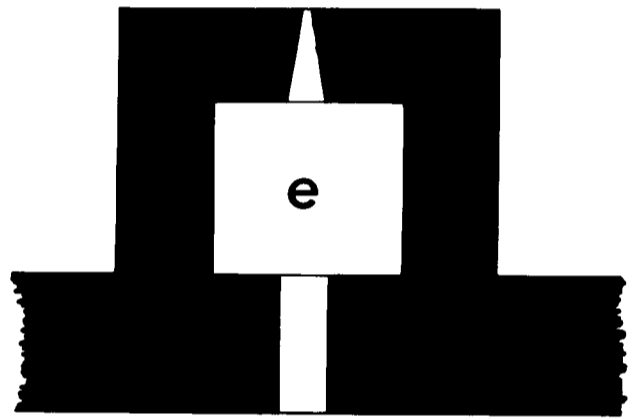
FIGURE 4



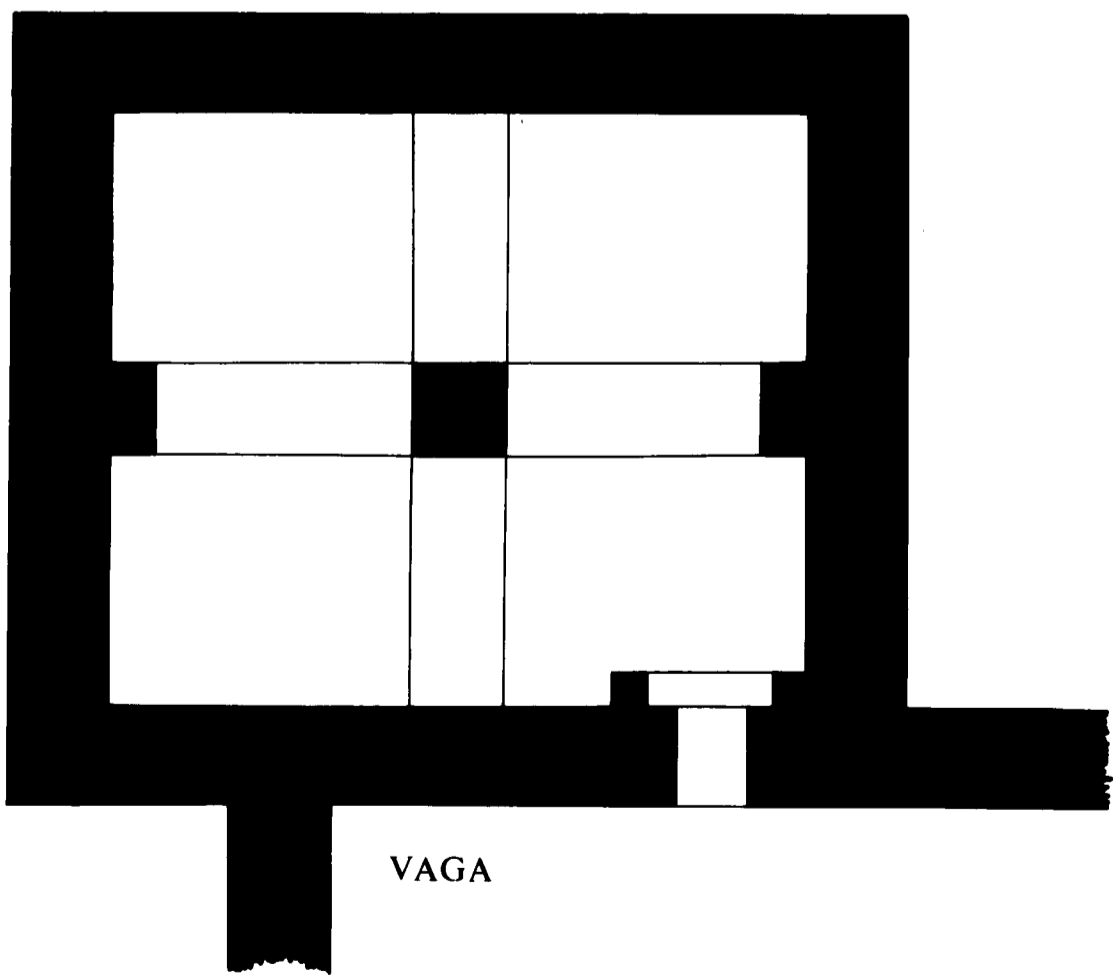
Bordj Hallal



TIGISI



TIPASA



VAGA

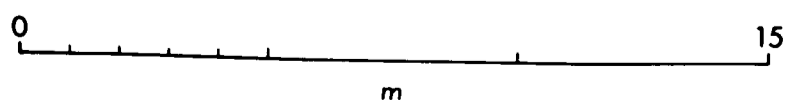
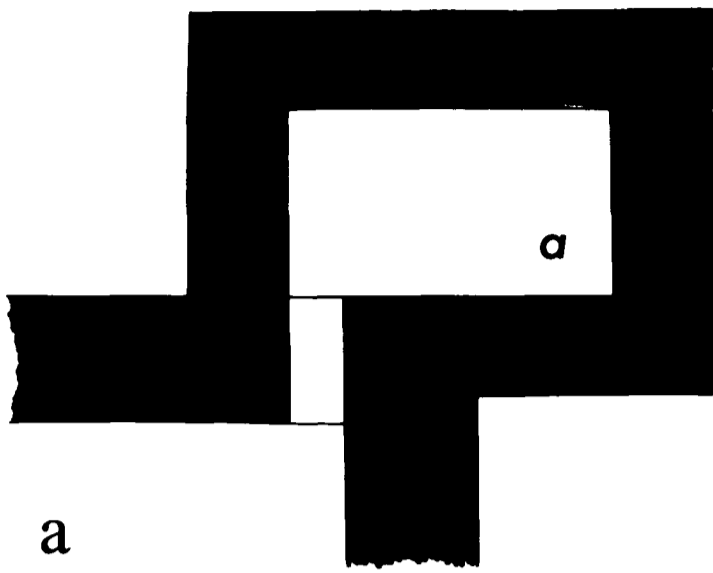
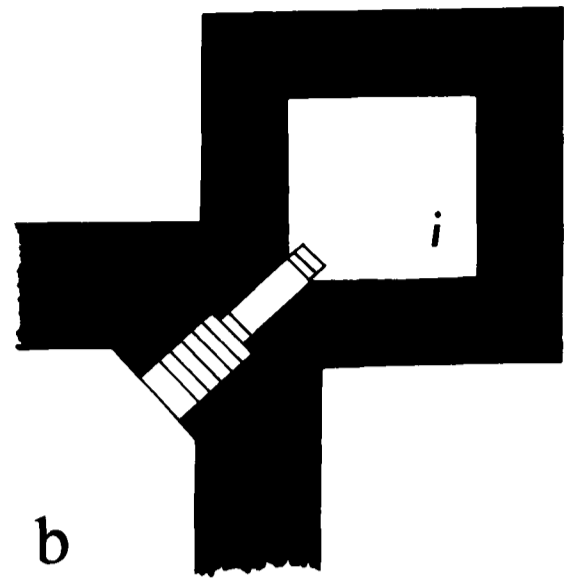


FIGURE 5.

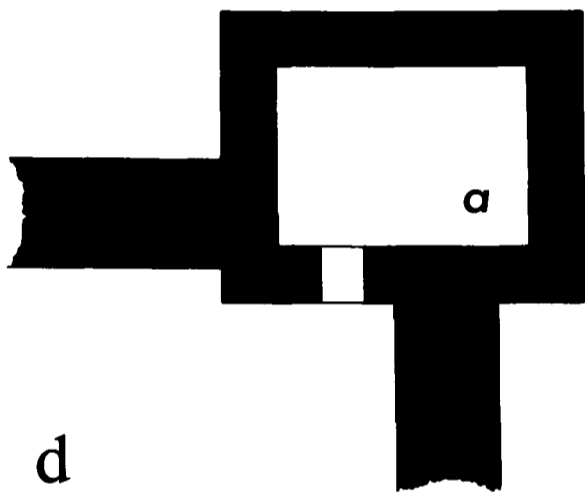
GADIAUFALA



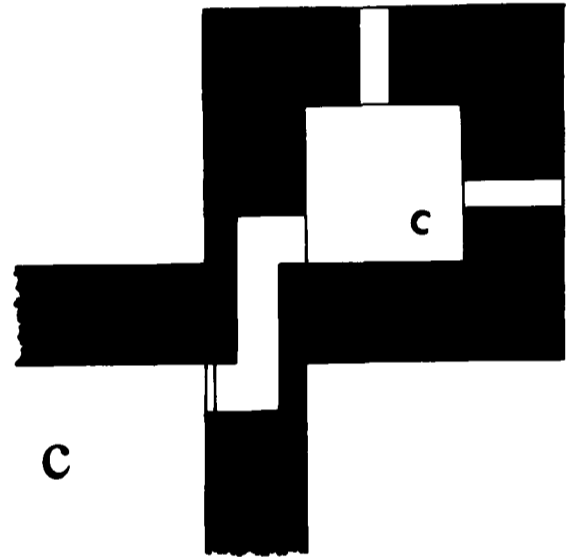
THAMUGADI



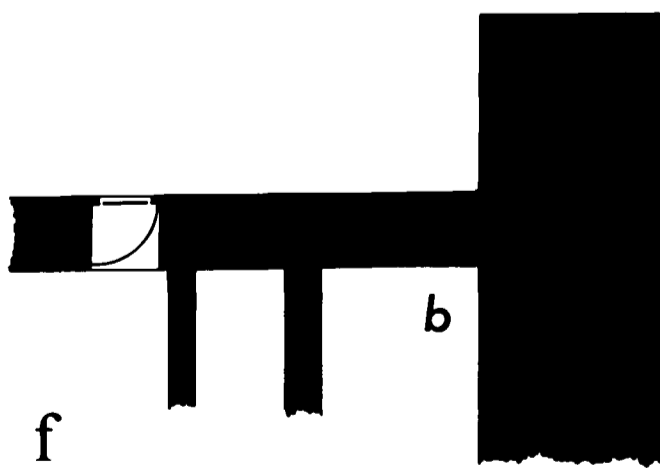
LIMISA



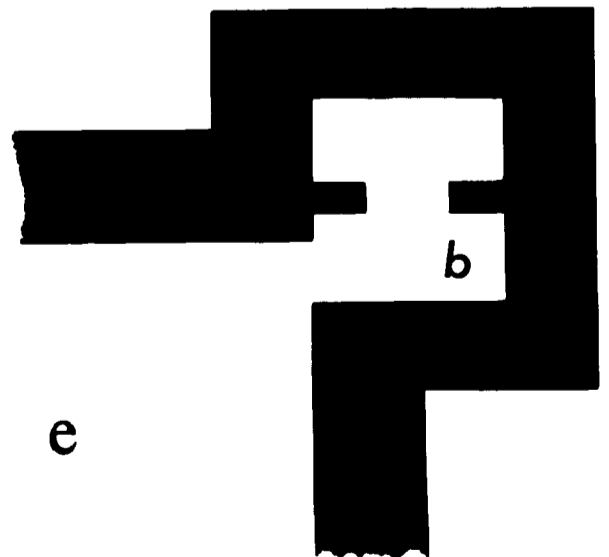
TUBUNAE



MACTARIS



AGBIA



Corner Tower Types

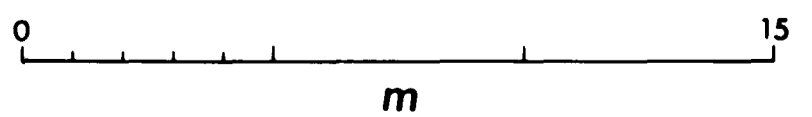
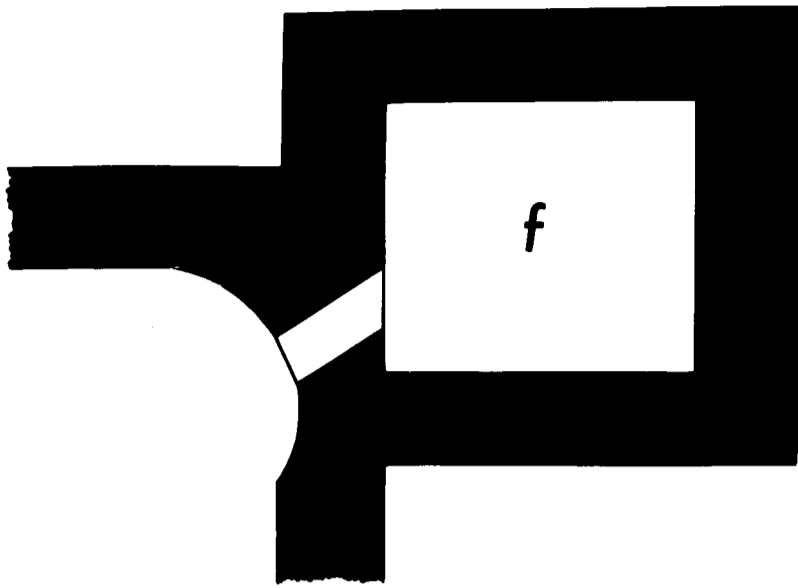
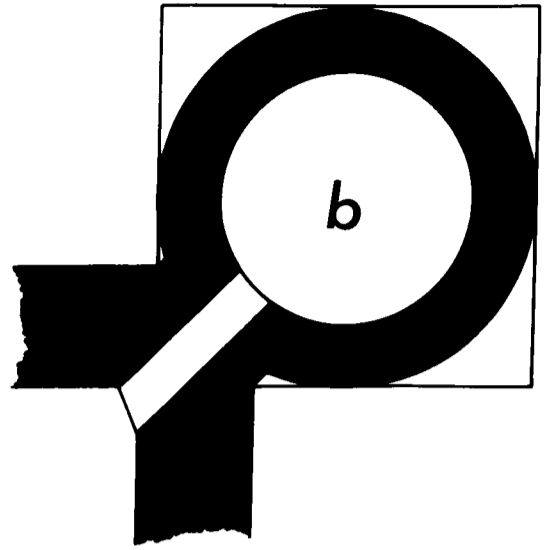


FIGURE 6.

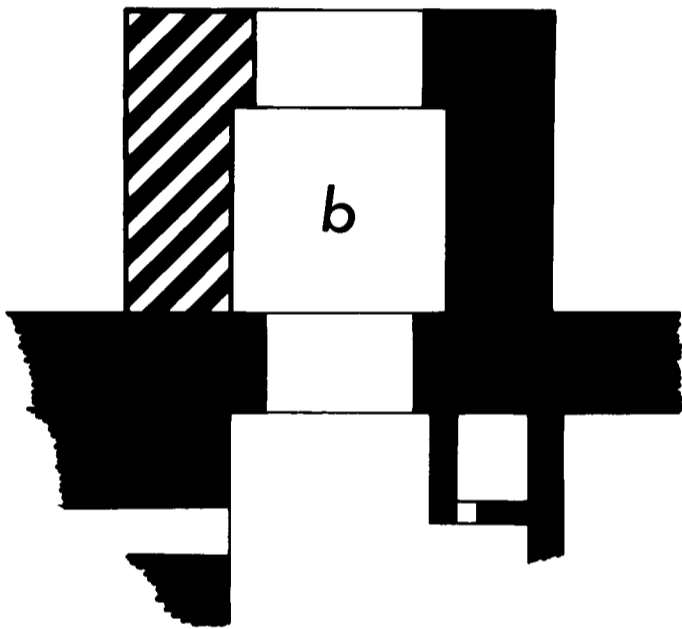
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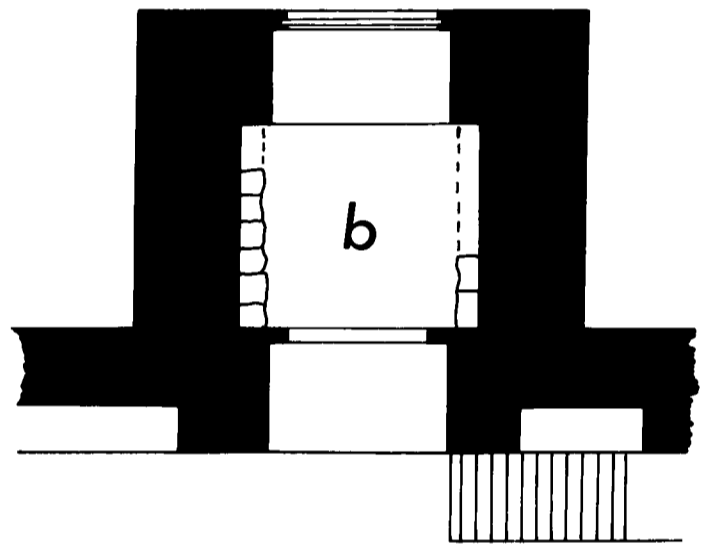
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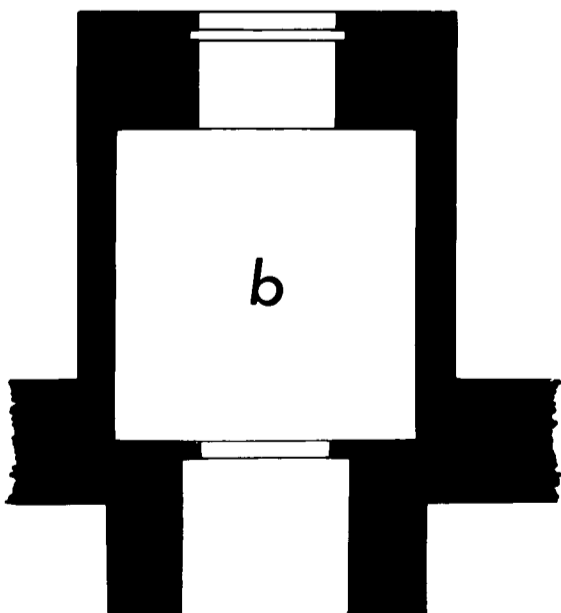
TUBUNAE



THAMUGADI



Ksar Belezma



THEVESTE

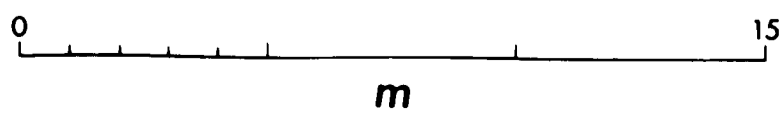
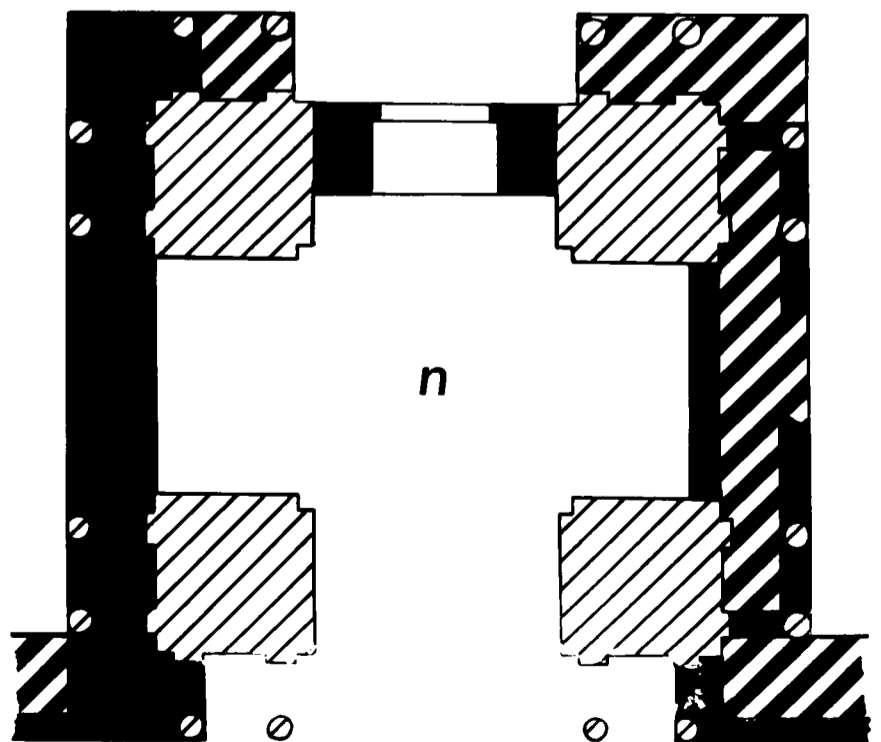


FIGURE 7.

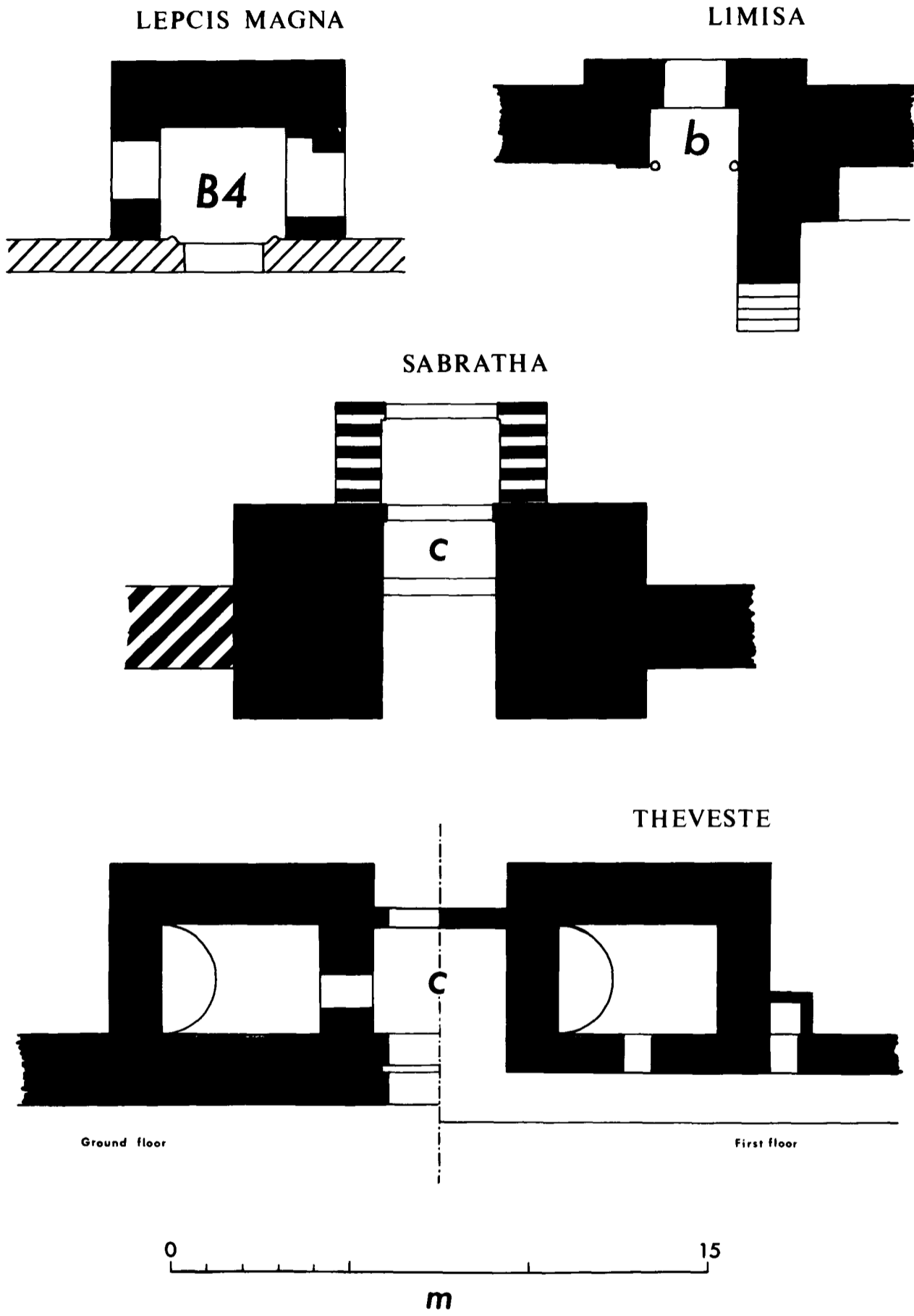


FIGURE 8.

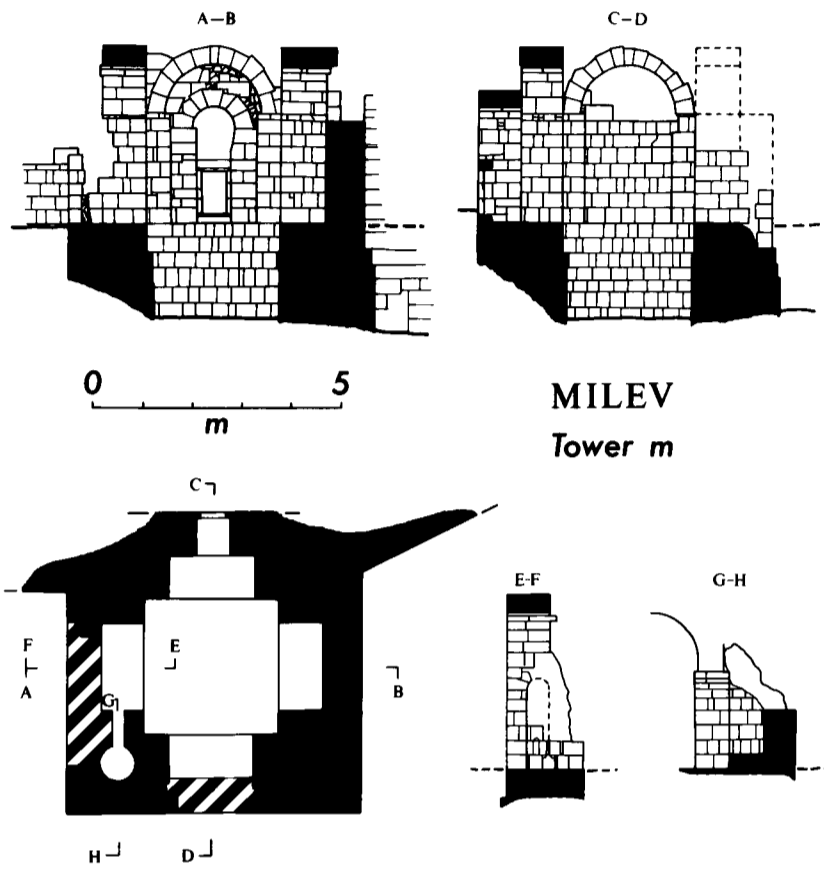


FIGURE 9.

Gate B2

LEPCIS MAGNA

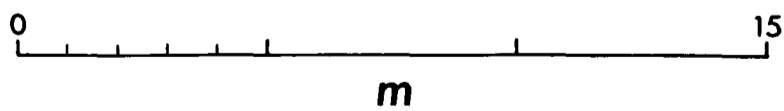
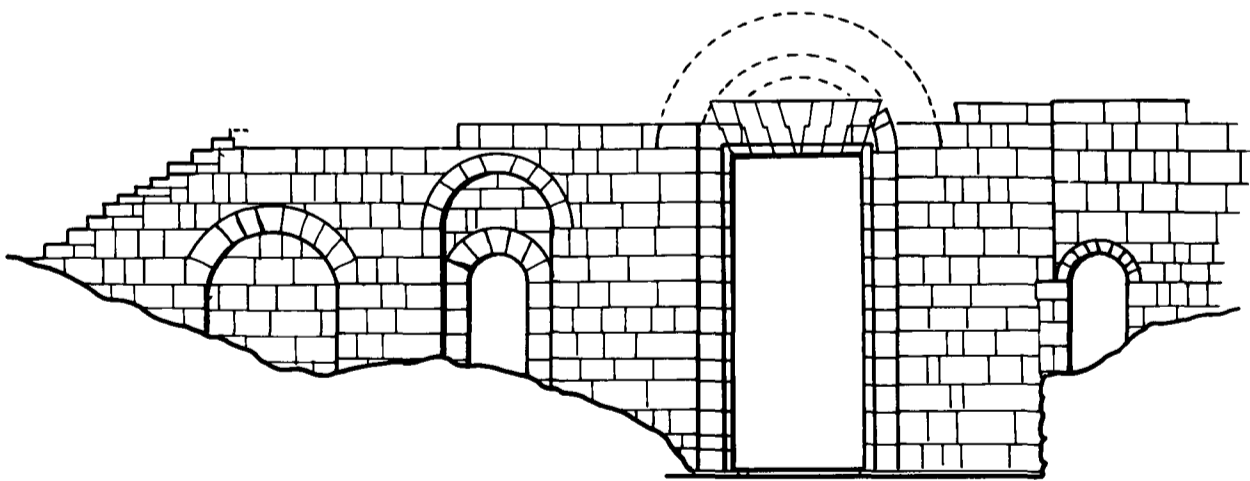
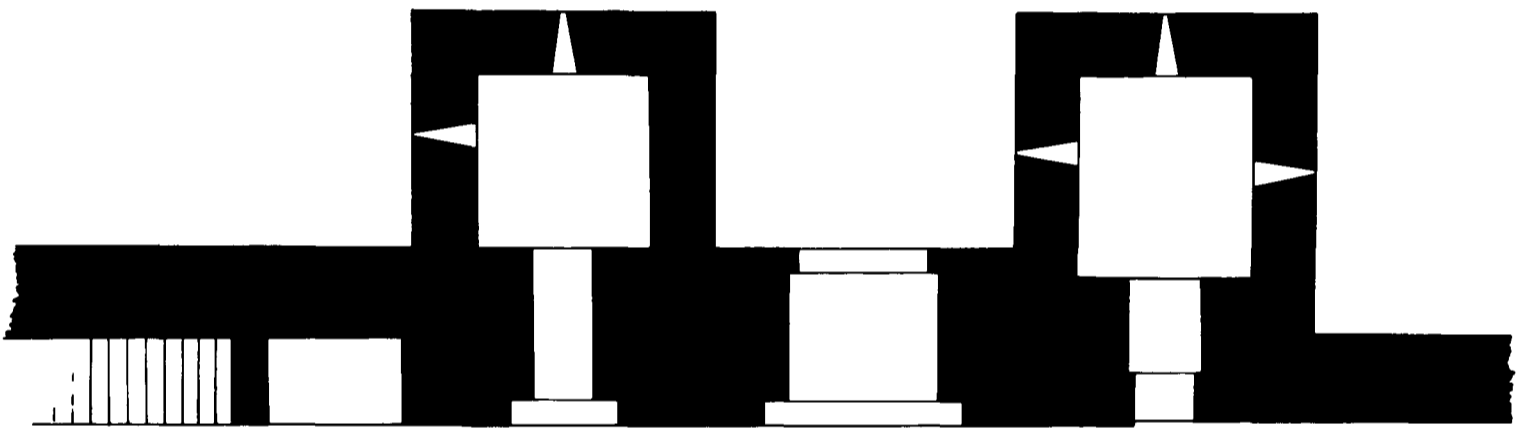
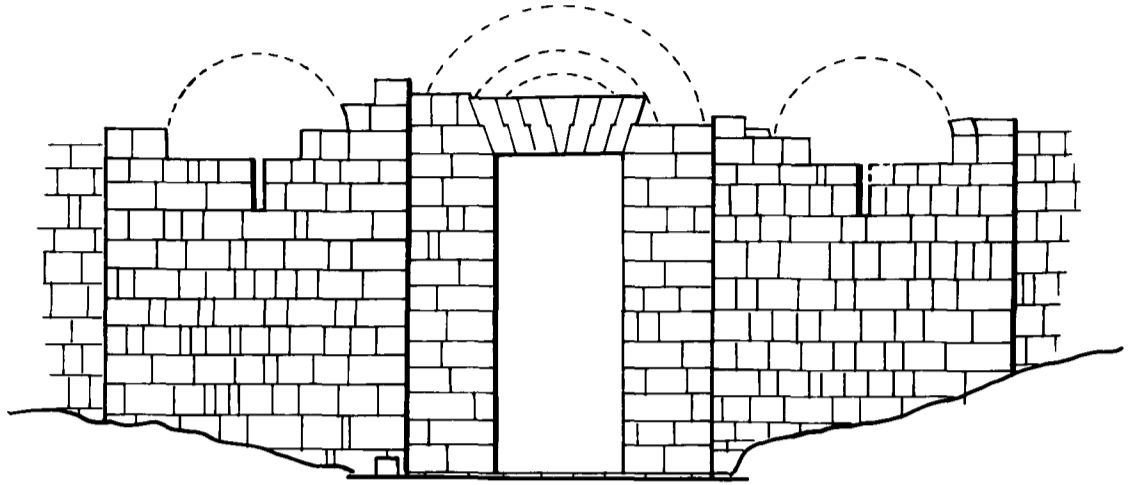


FIGURE 10.

Gate a

TIGISI

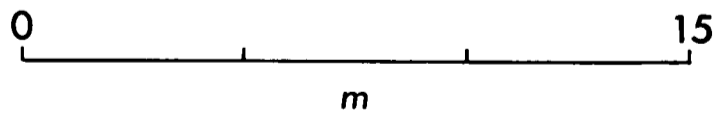
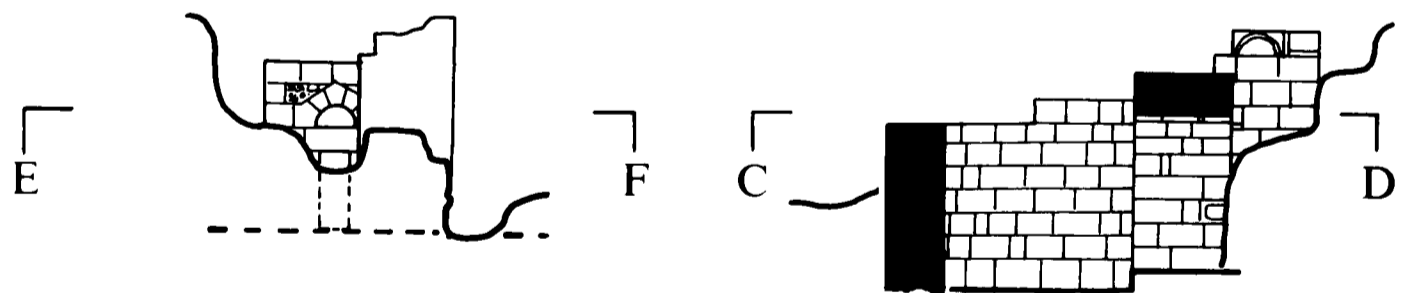
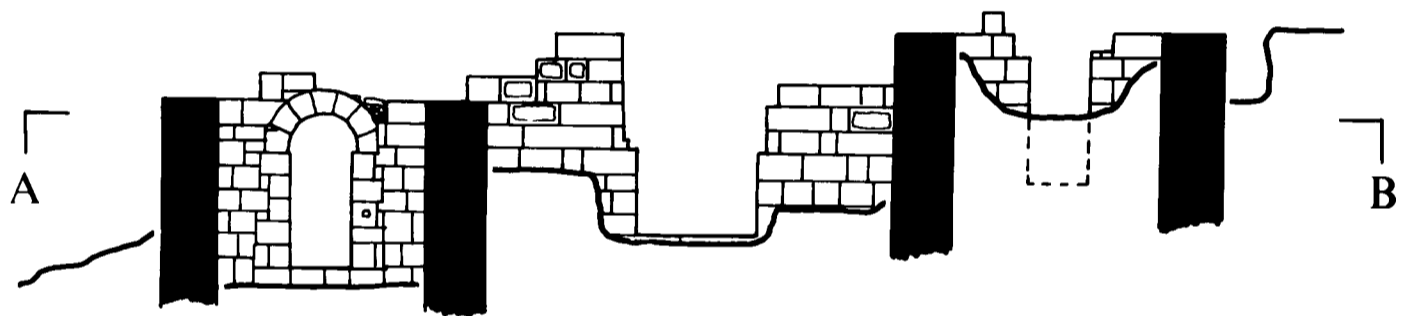
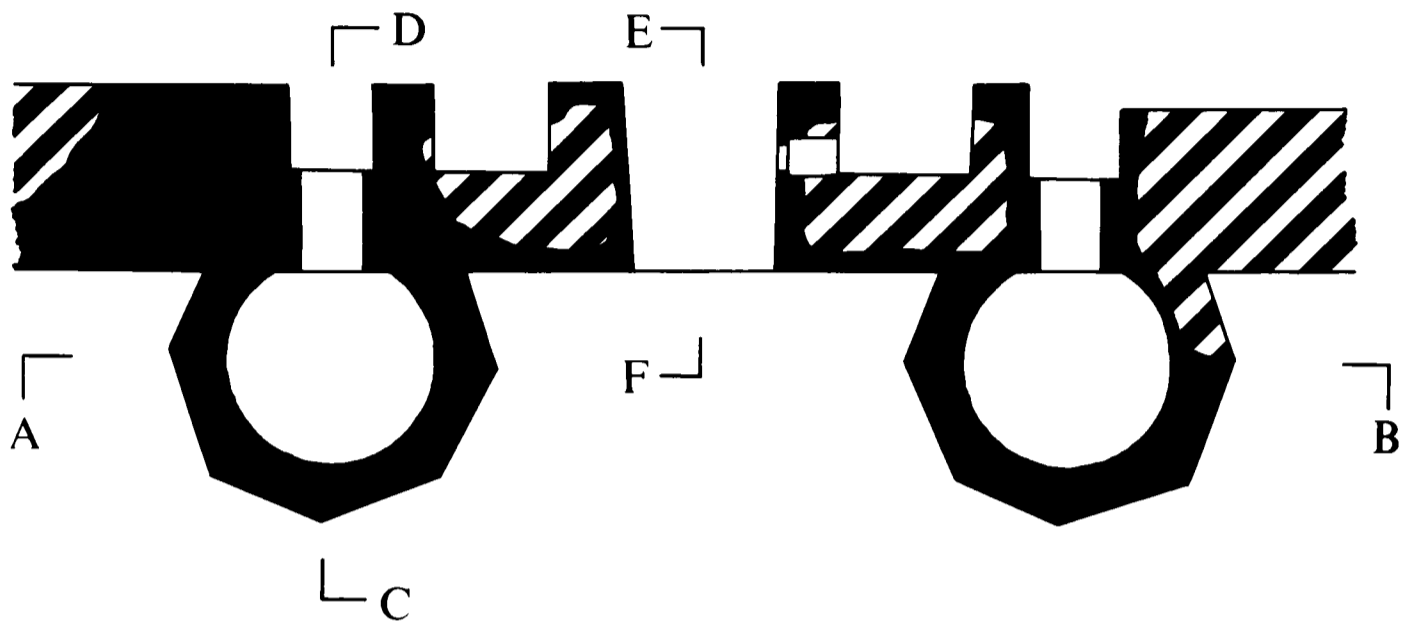


FIGURE 11 .

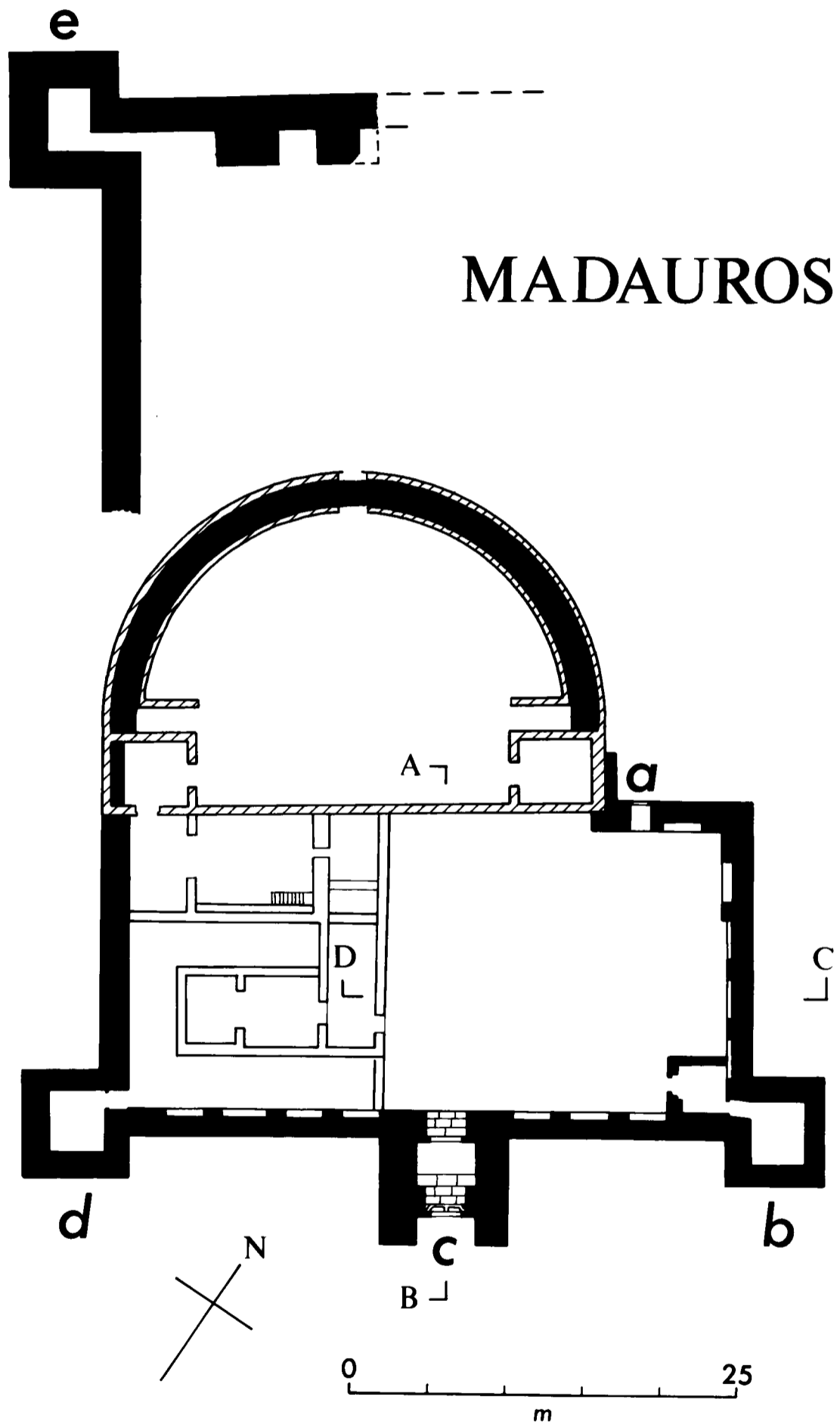
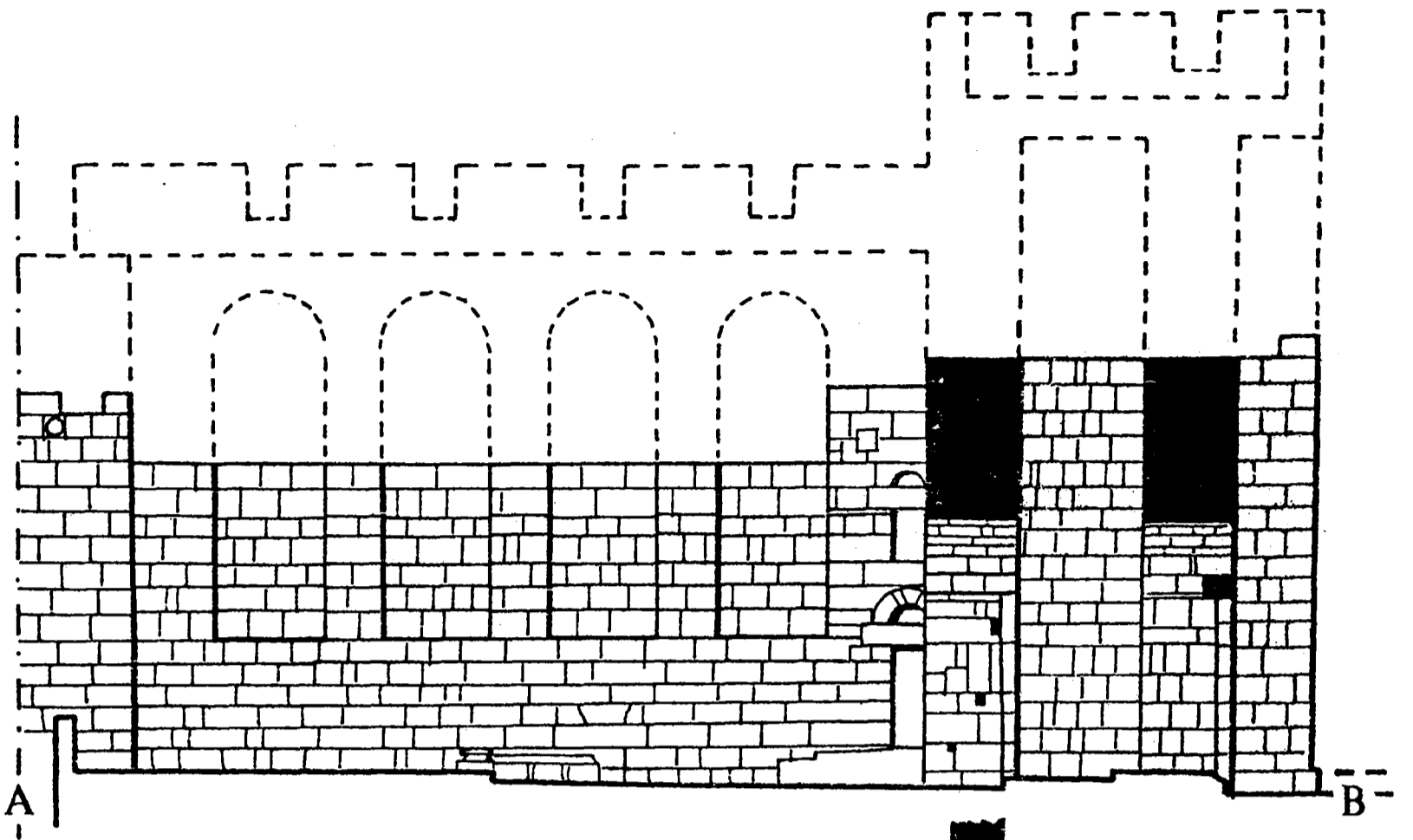


Figure 12.



MADAUROS

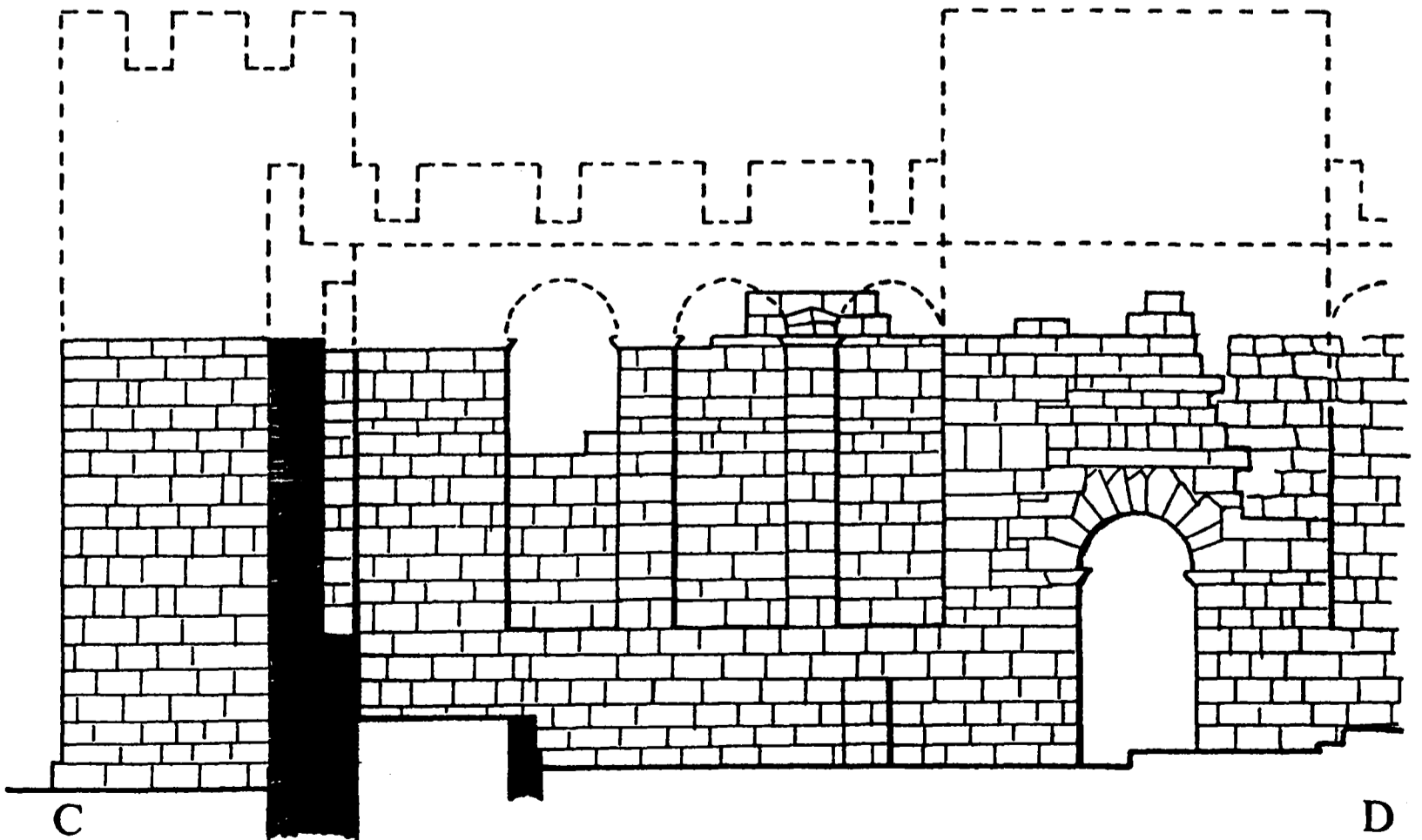
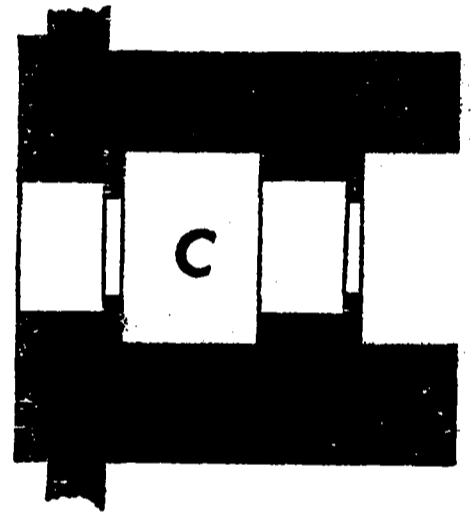
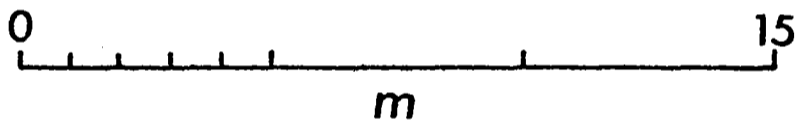
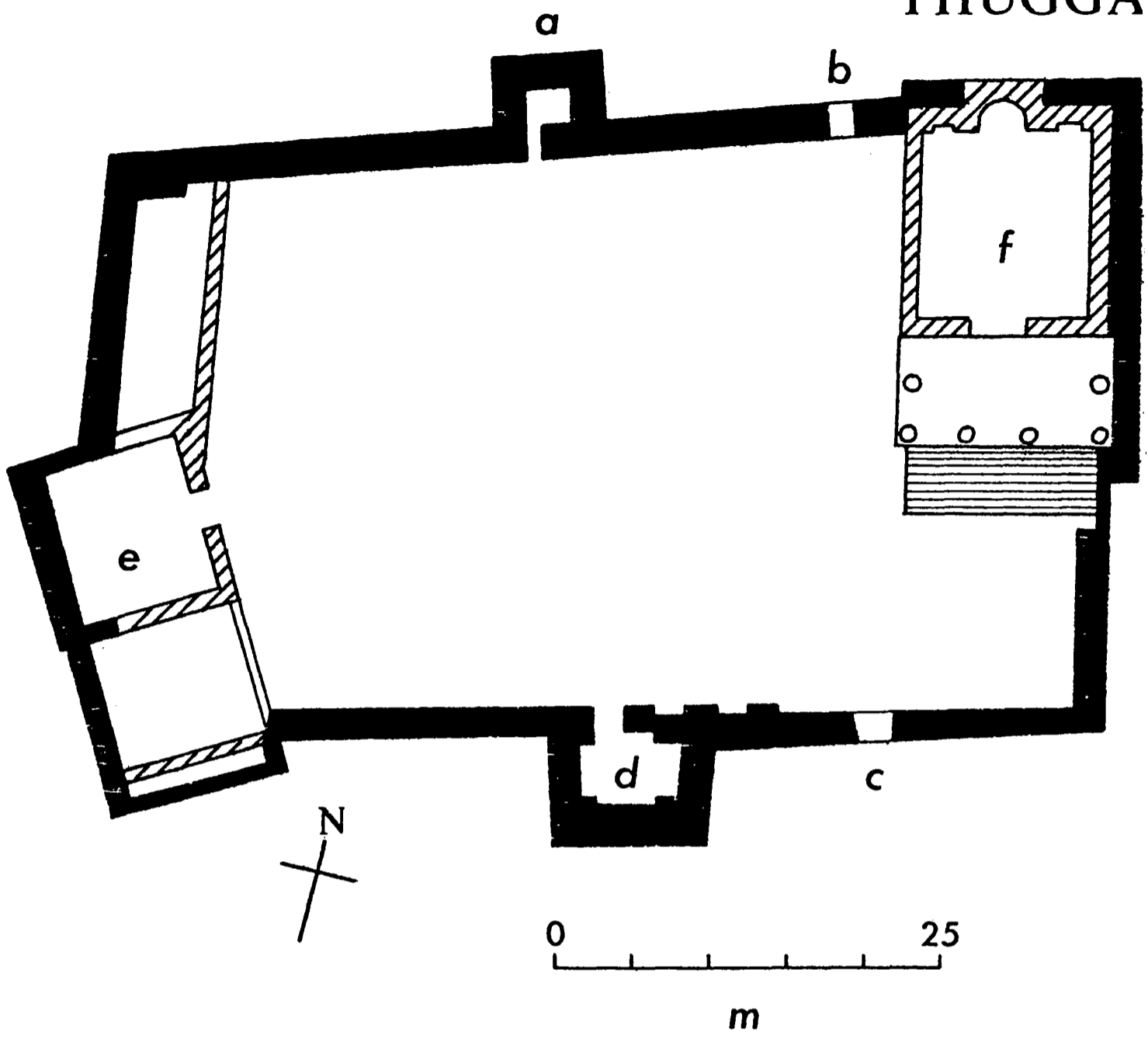


Figure 13.

THUGGA



UPPENNA

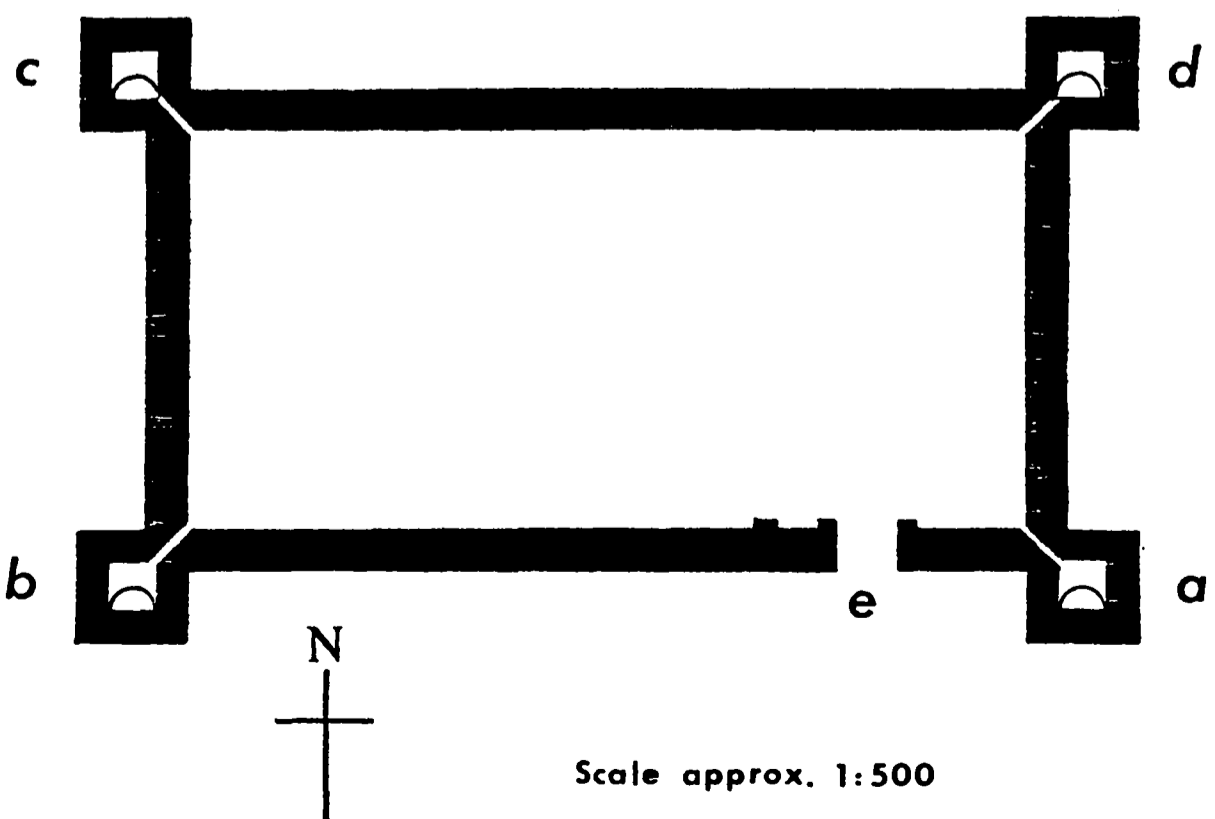


Figure 14.

Ksar Belezma

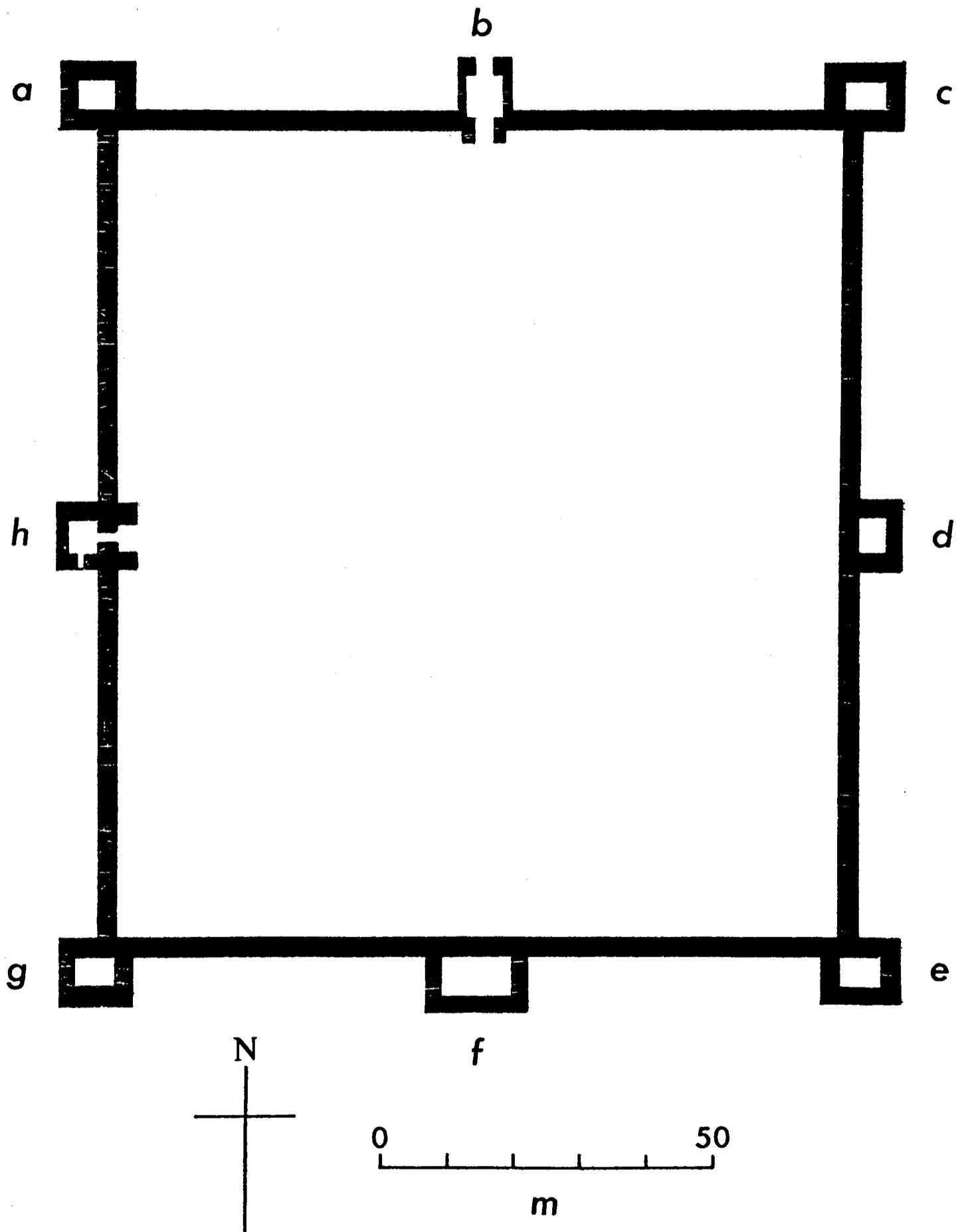


Figure 15.

CHUSIRA

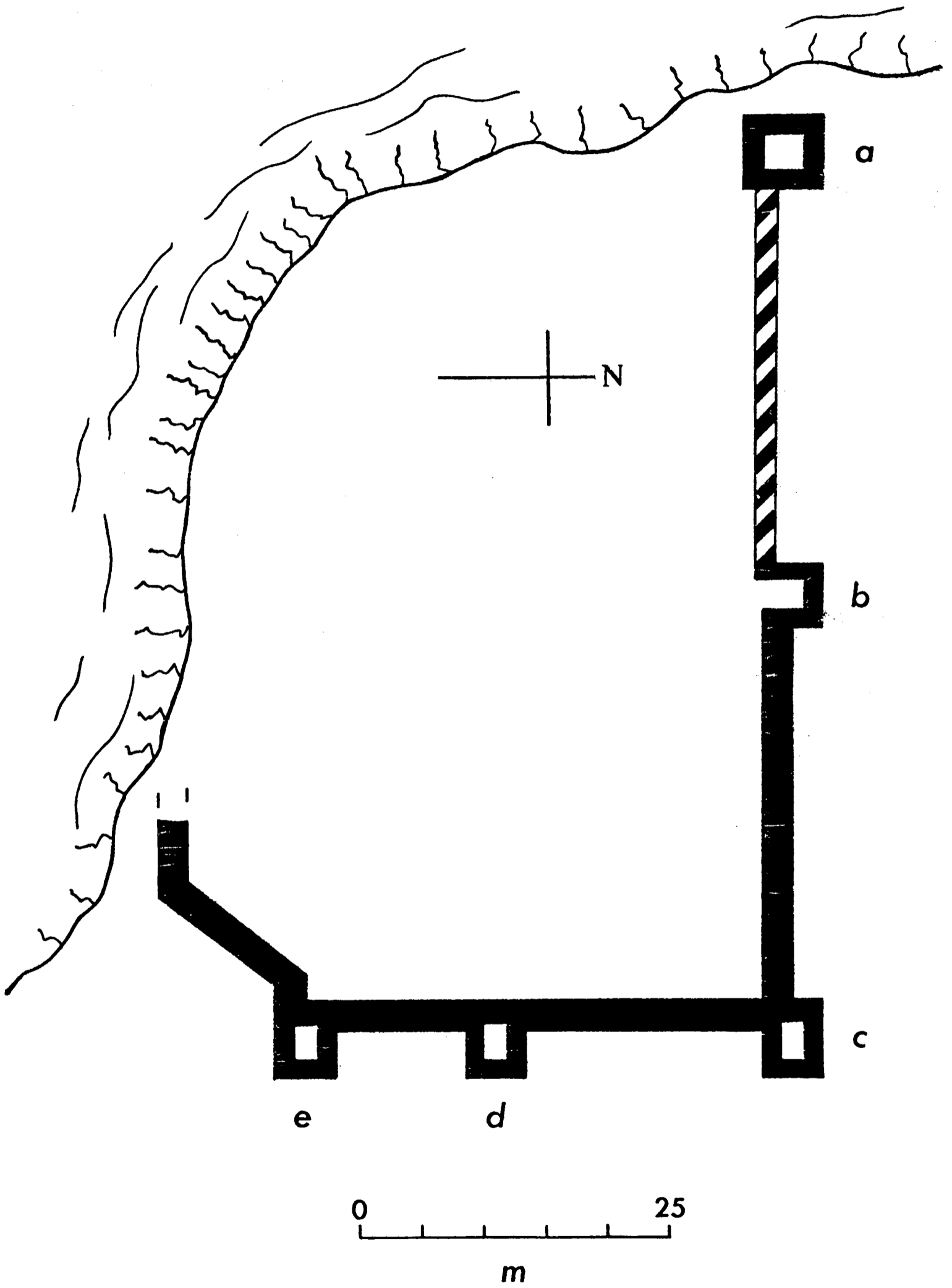
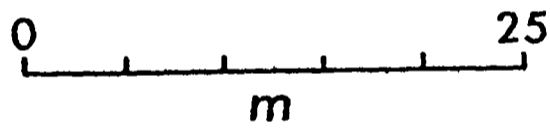
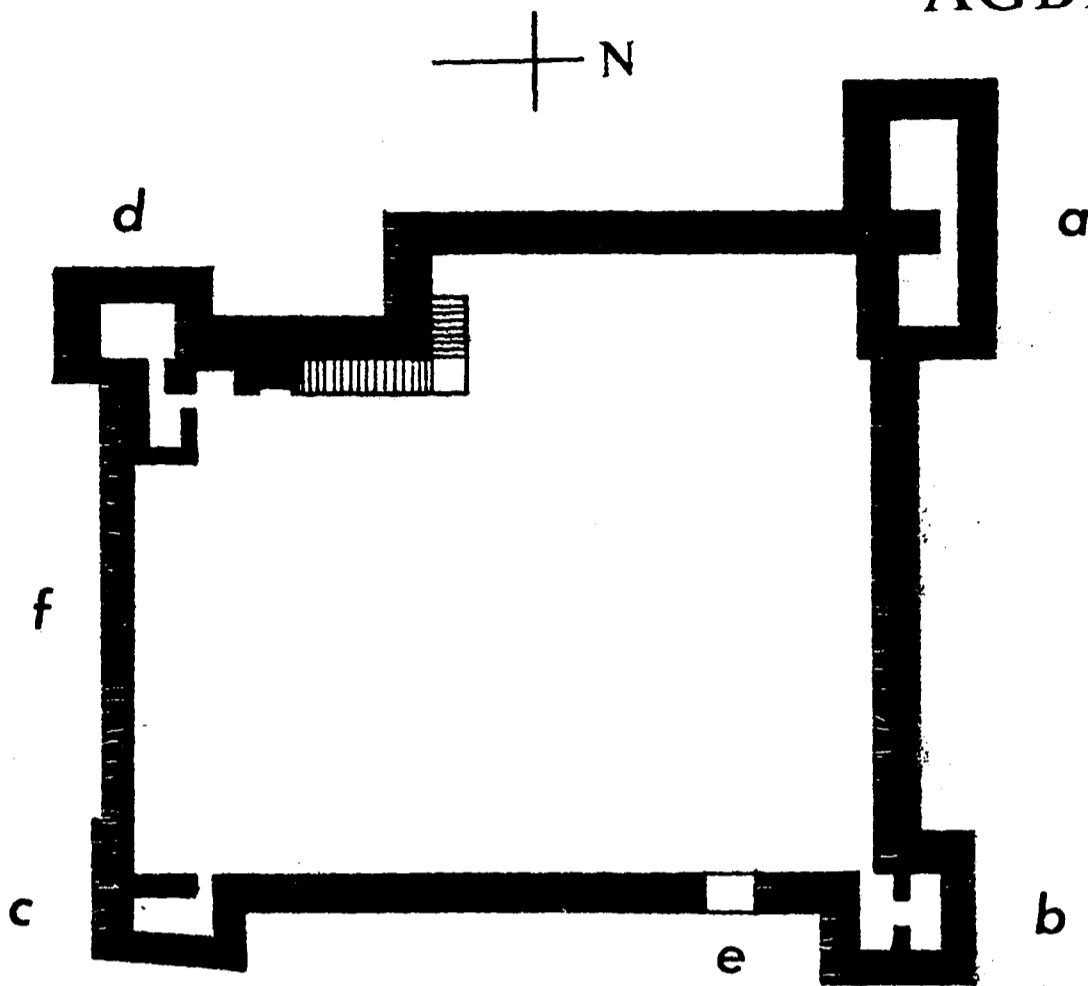


Figure 16.

AGBIA



LIMISA

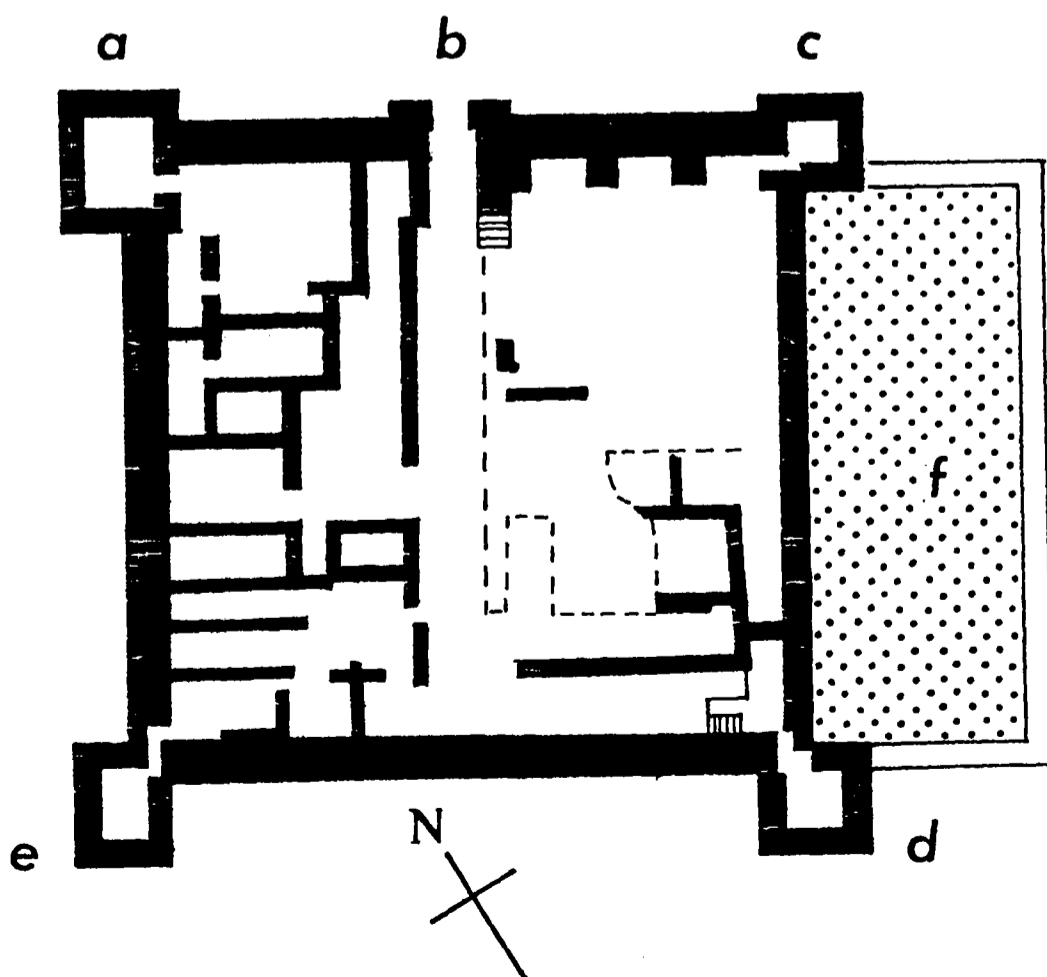


Figure 17.

TUBERNUC

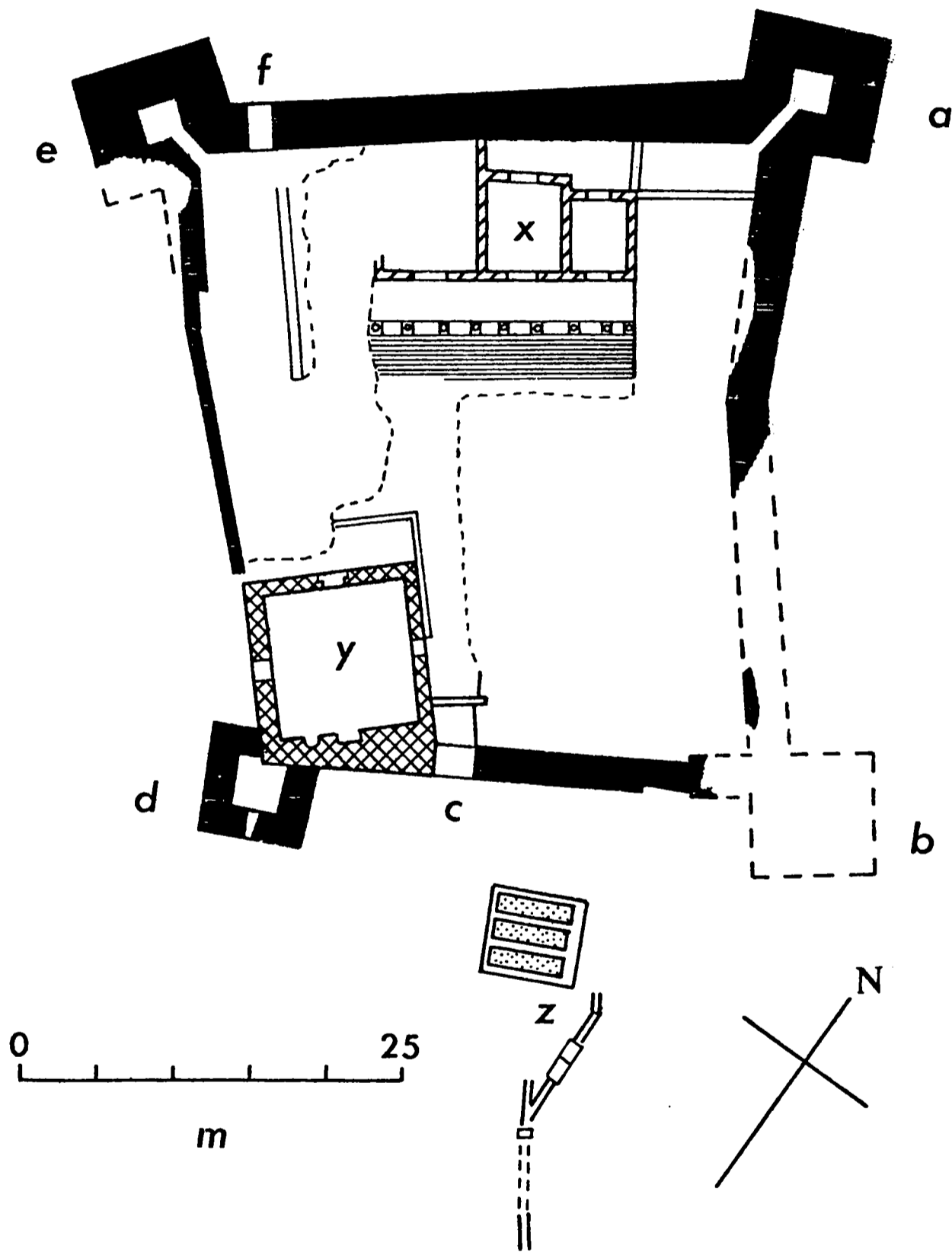


Figure 18.

AMMAEDARA

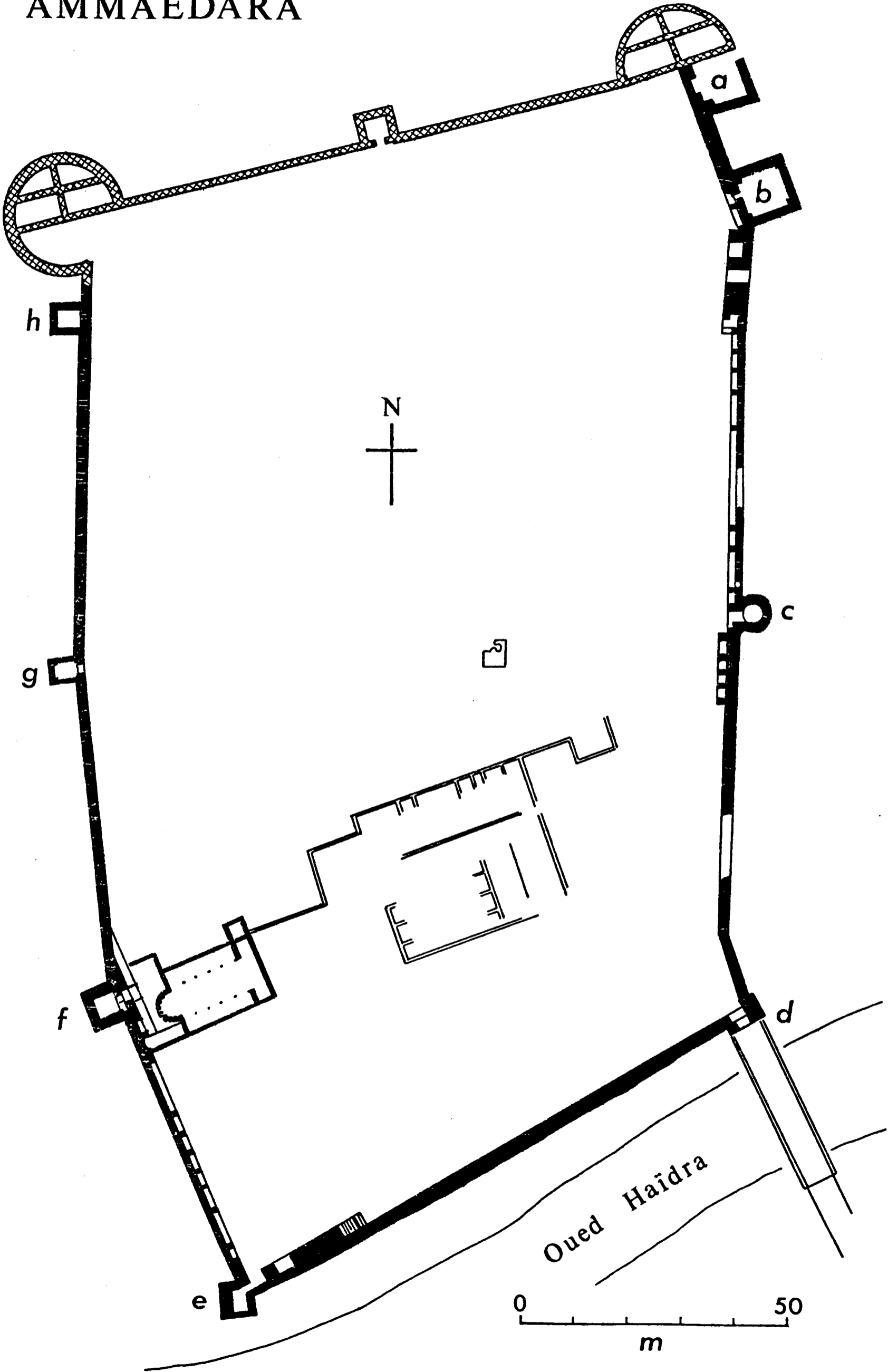


Figure 19.

ANASTASIANA

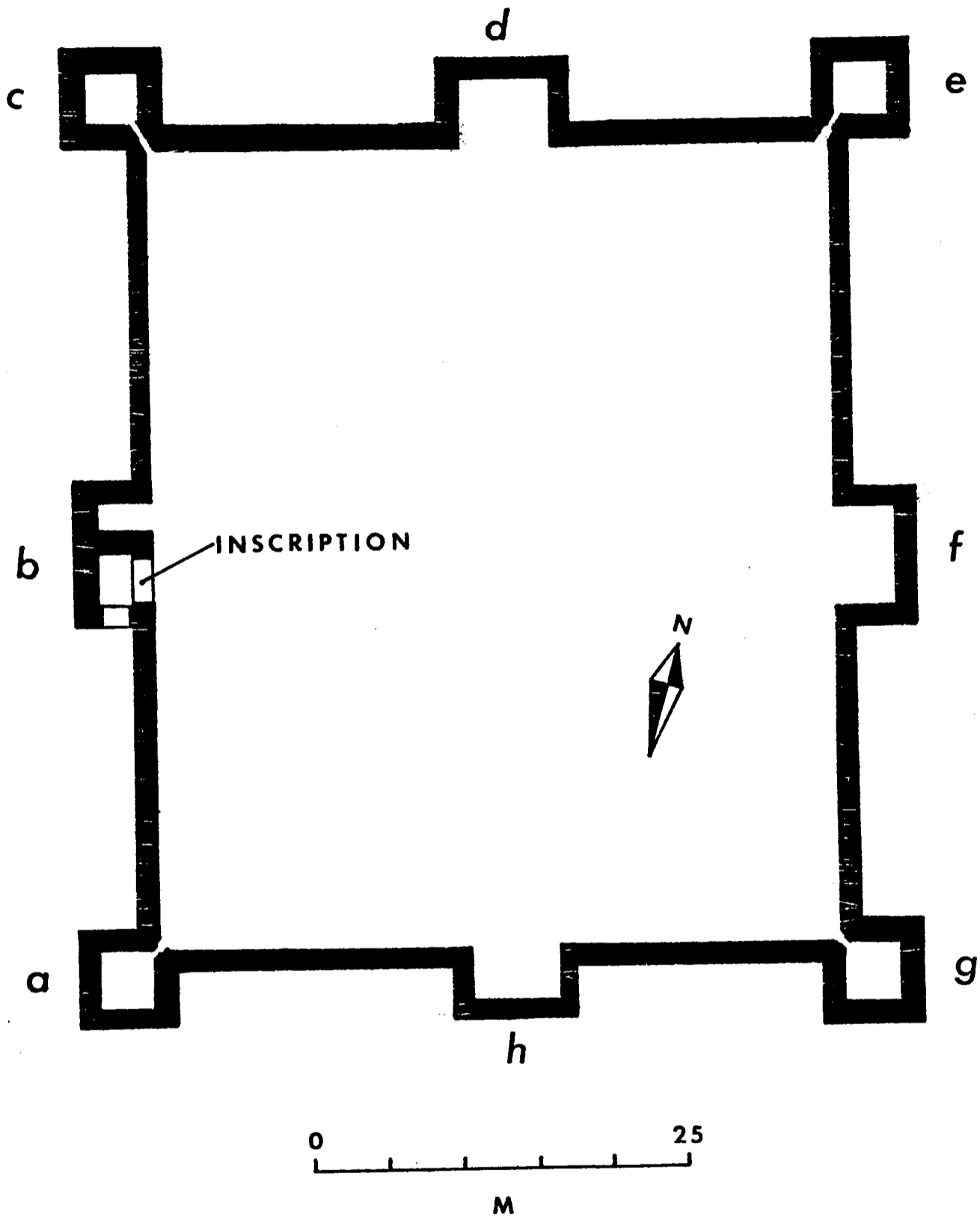


Figure 20.

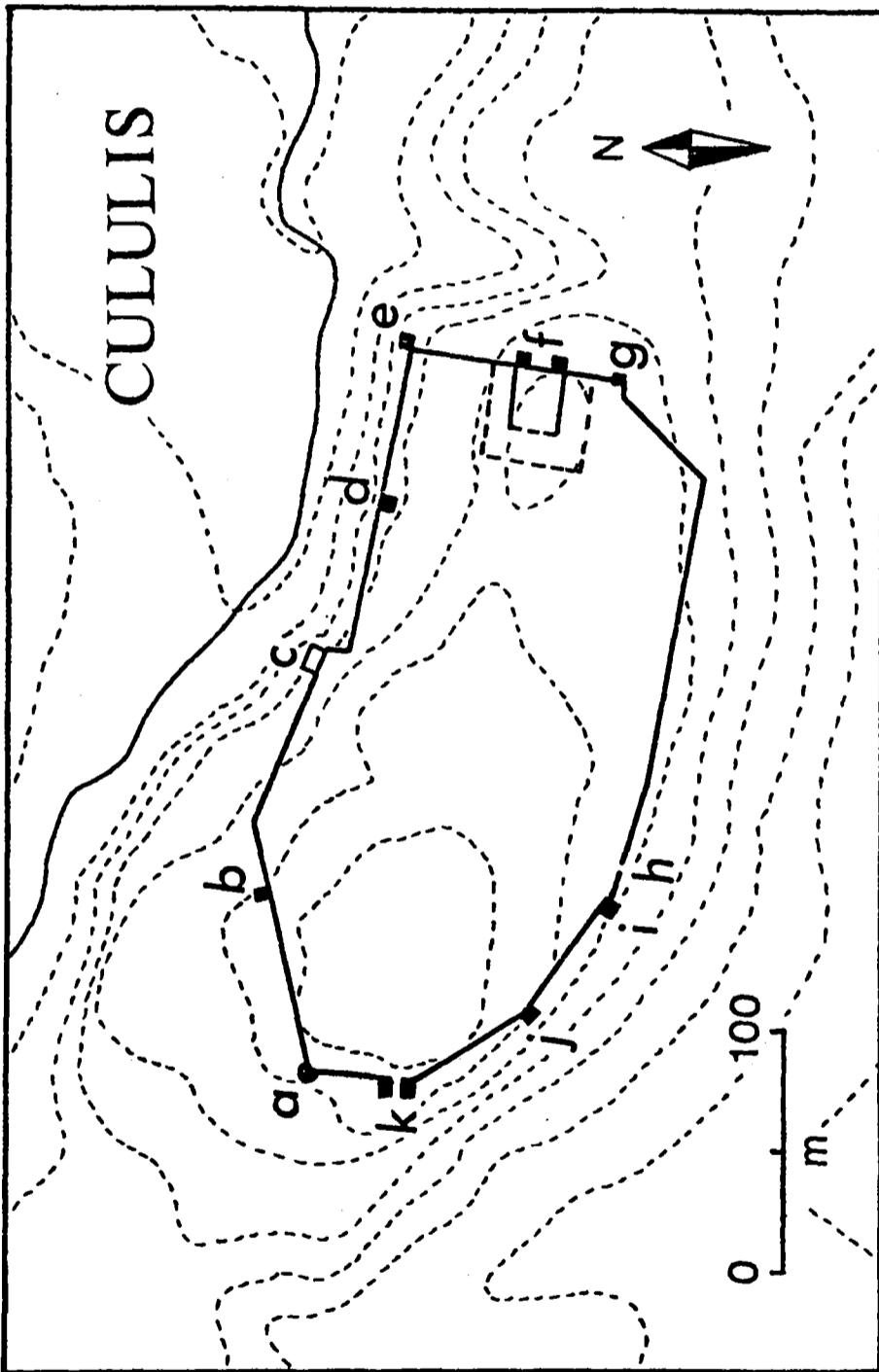


Figure 21.

BAGAI

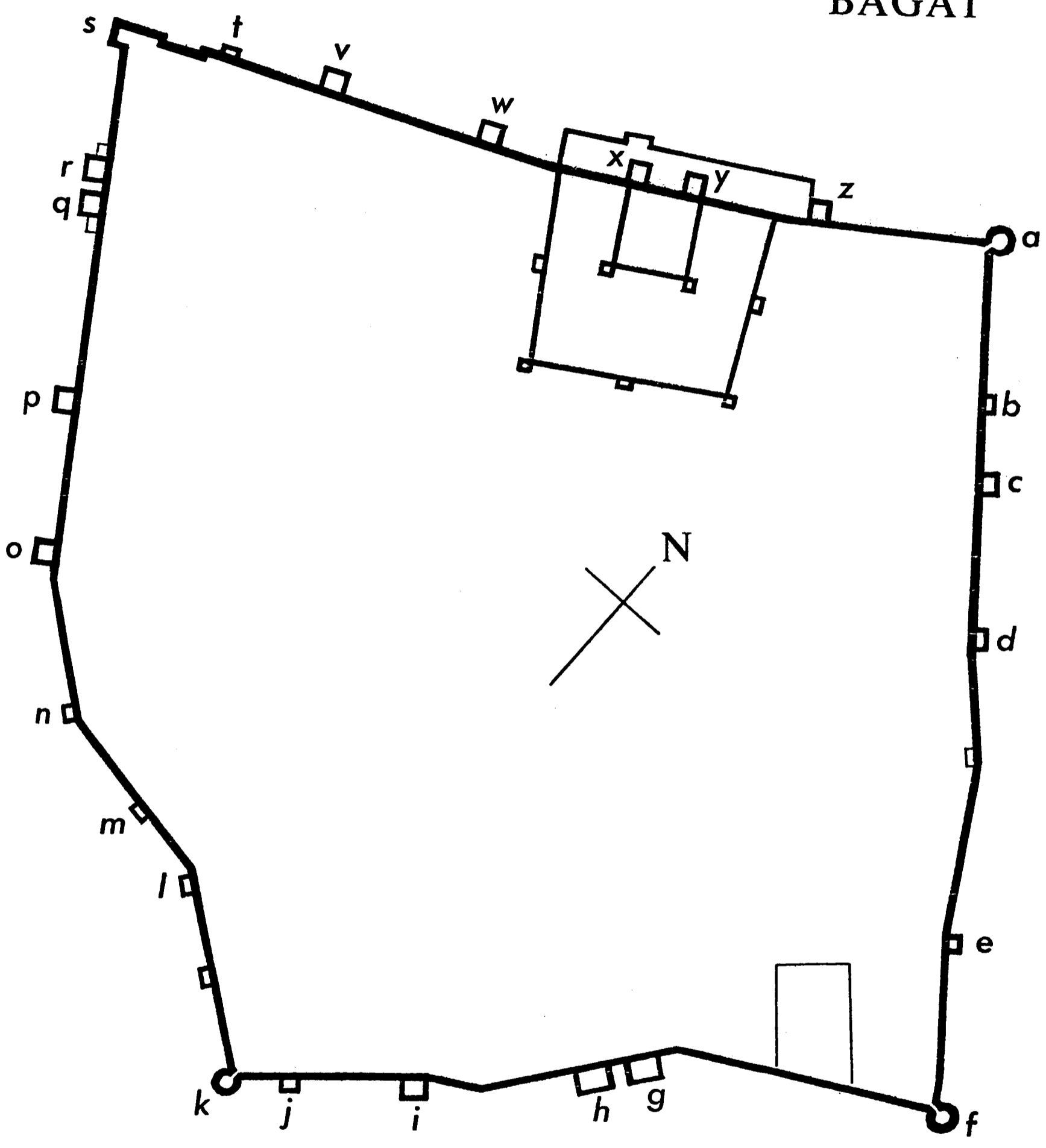
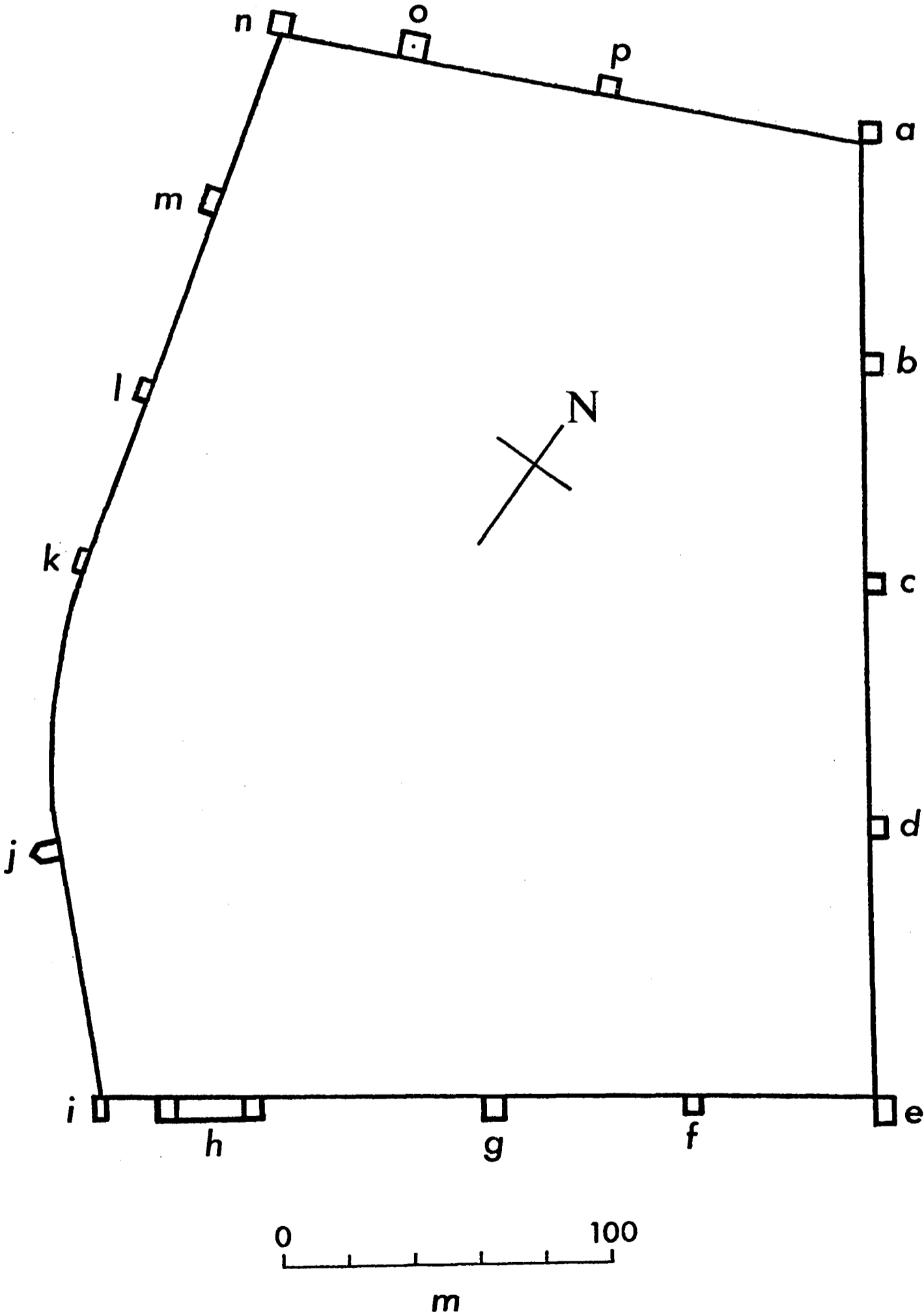
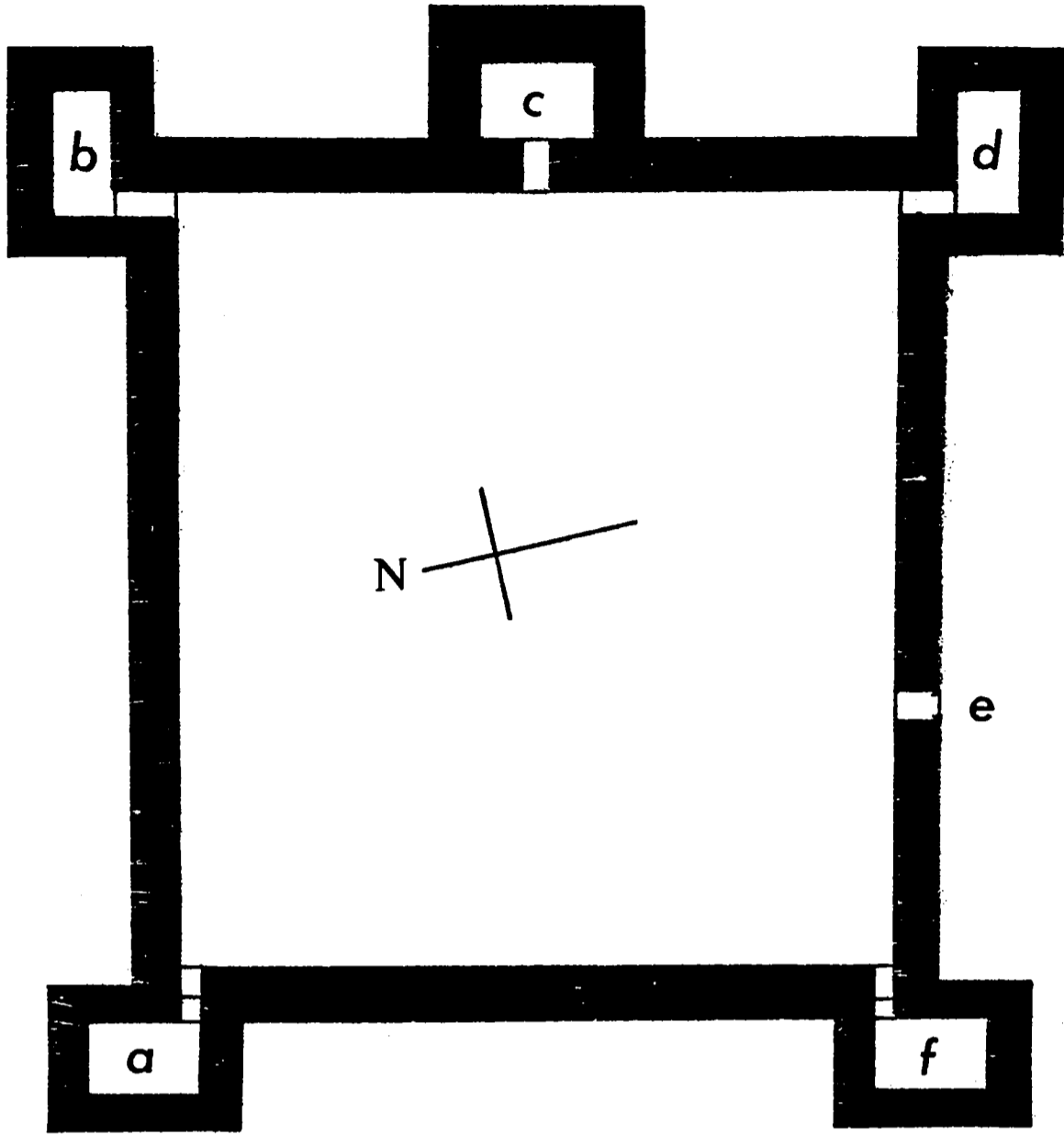


Figure 22.

Bordj Hallal



GADIAUFALA



Ksar Graouch

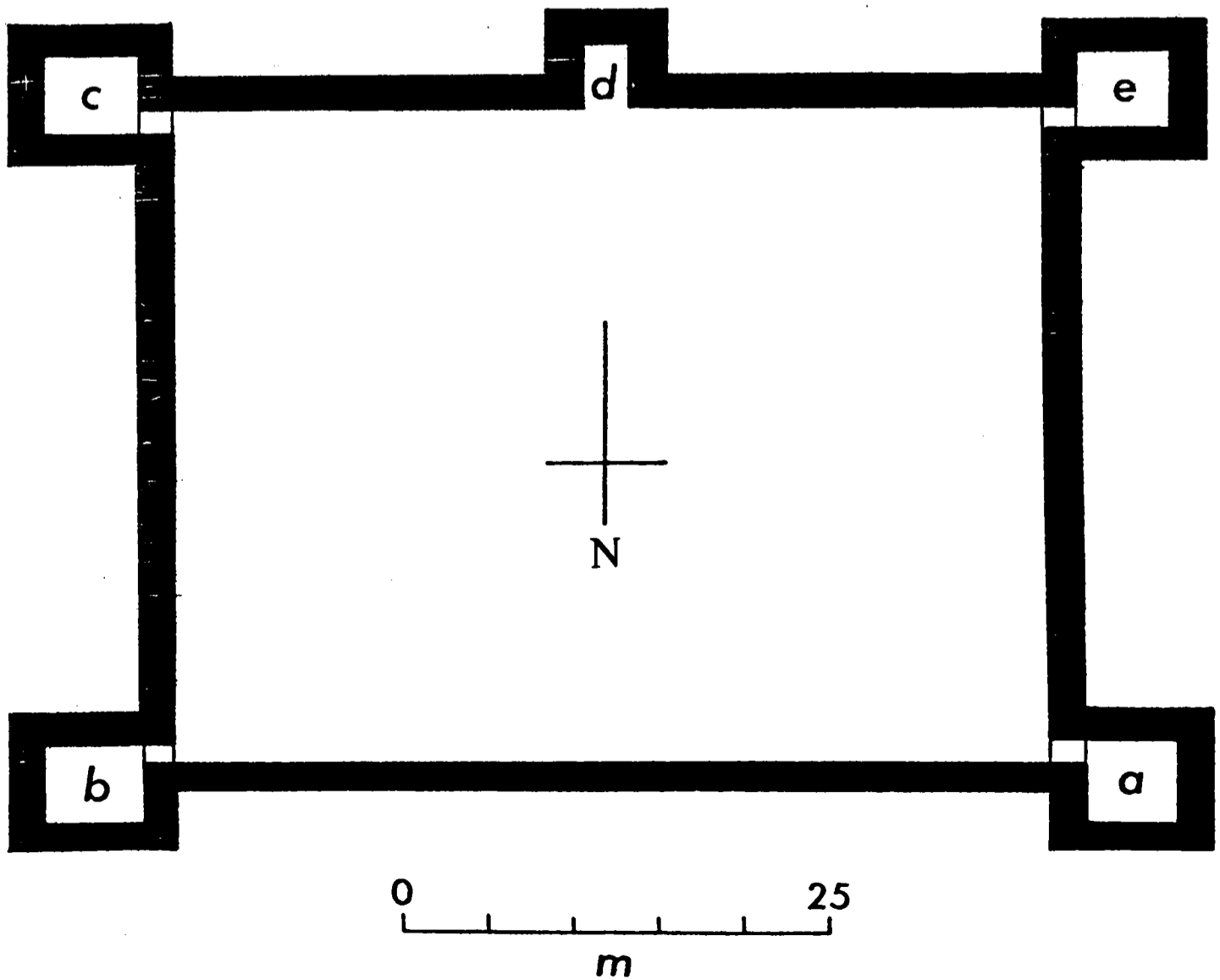
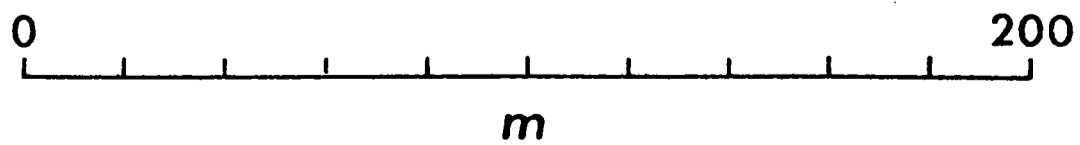
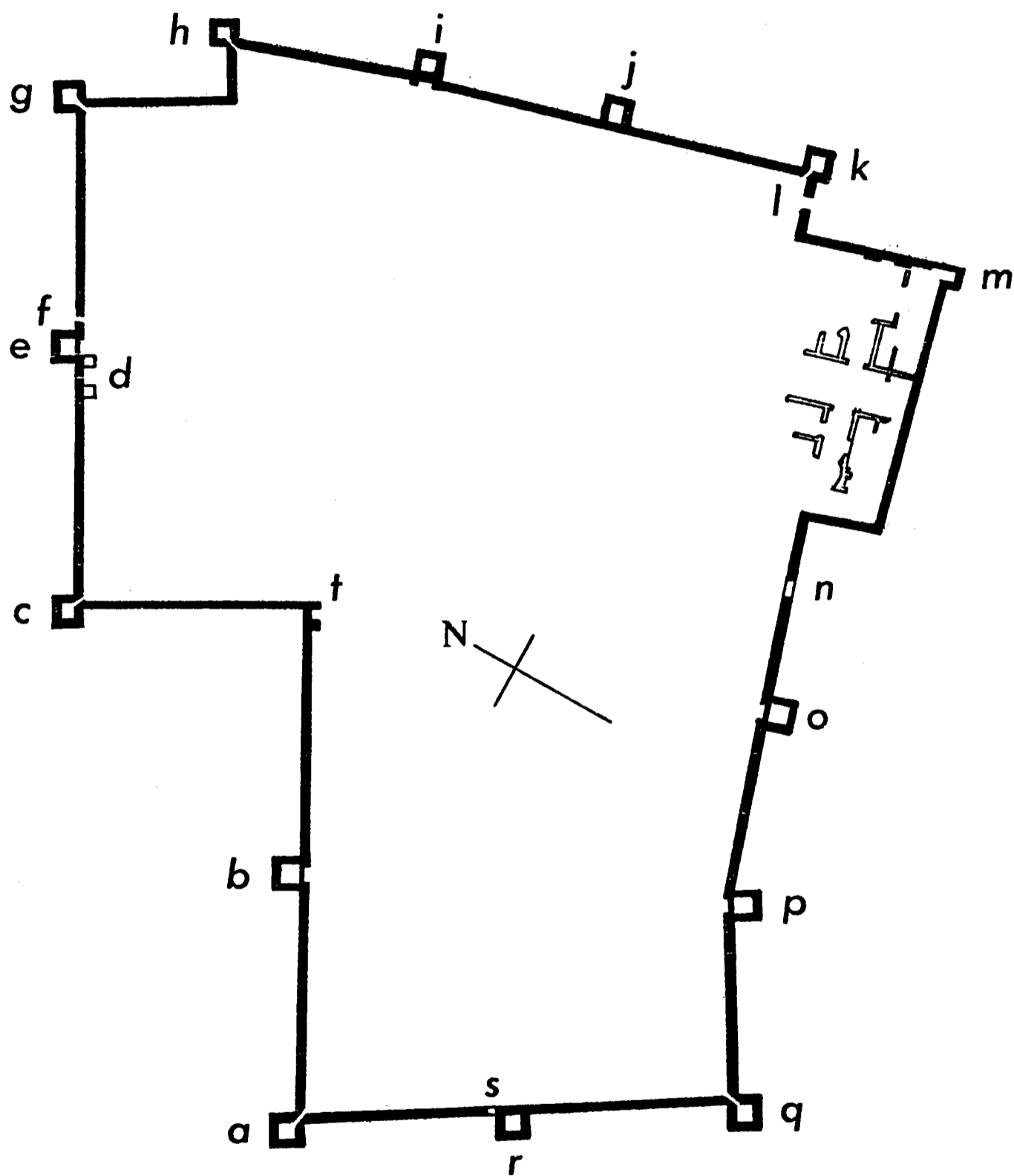


Figure 24.

CALAMA



TIGISI

LARIBUS

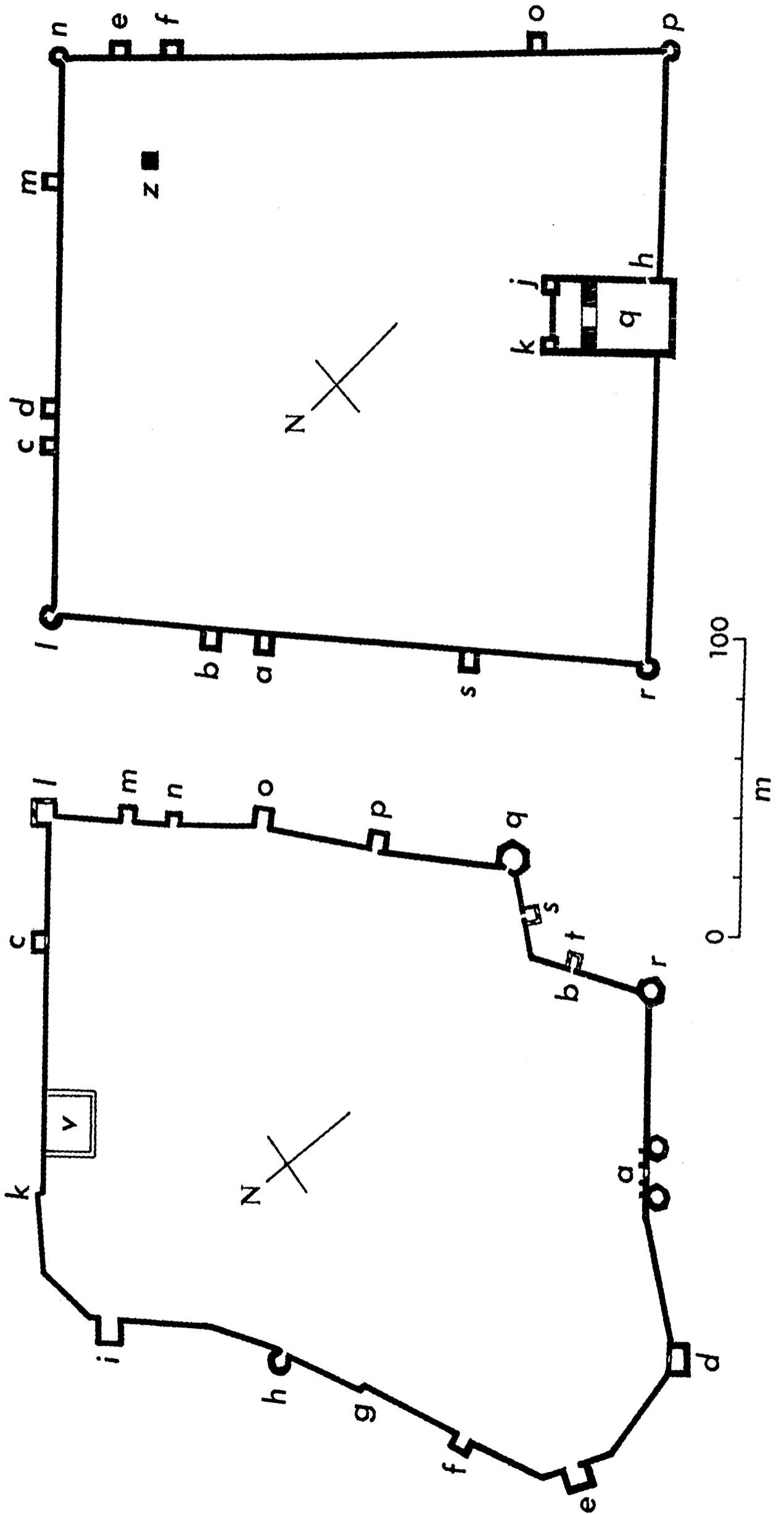


Figure 25.

Figure 26.

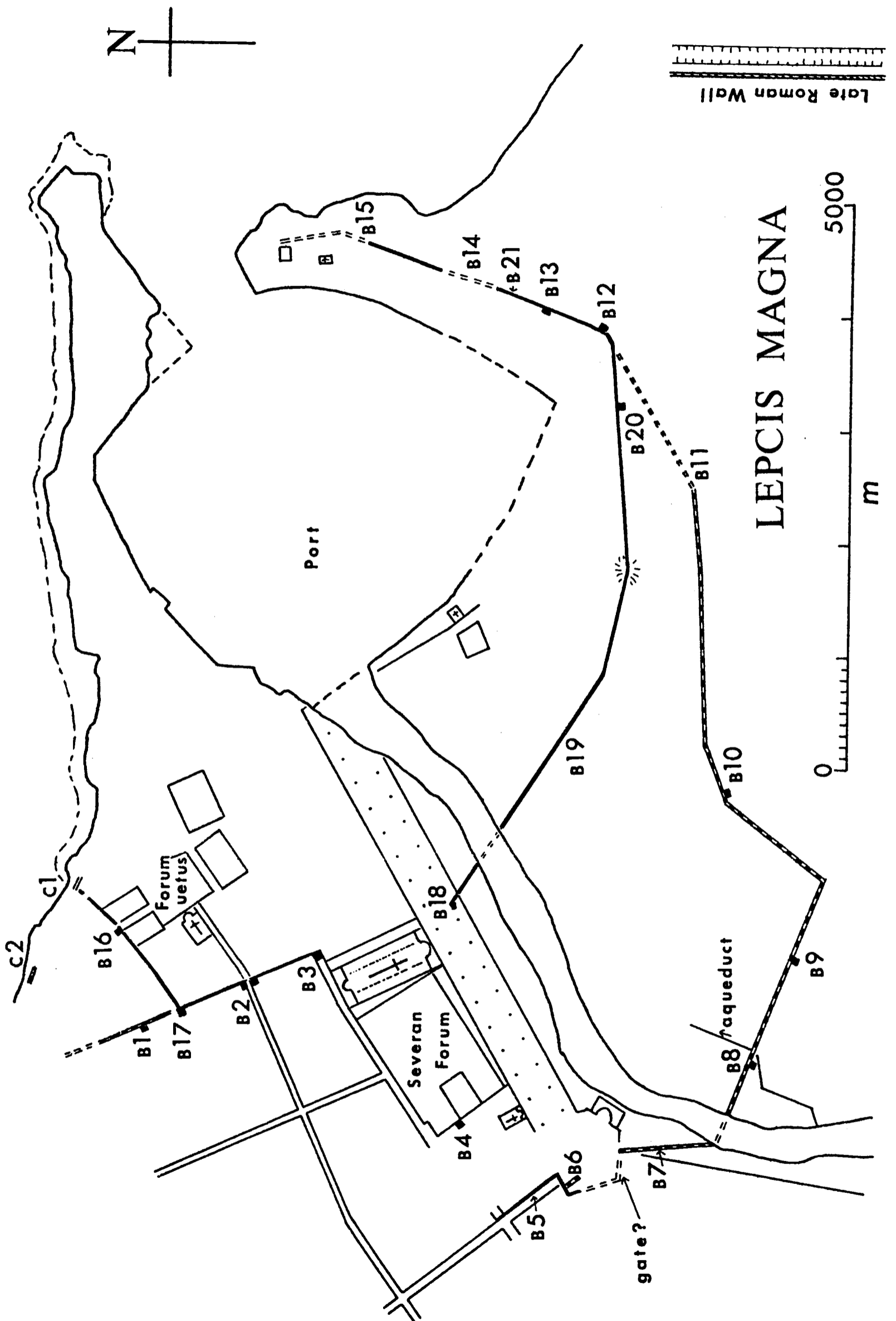


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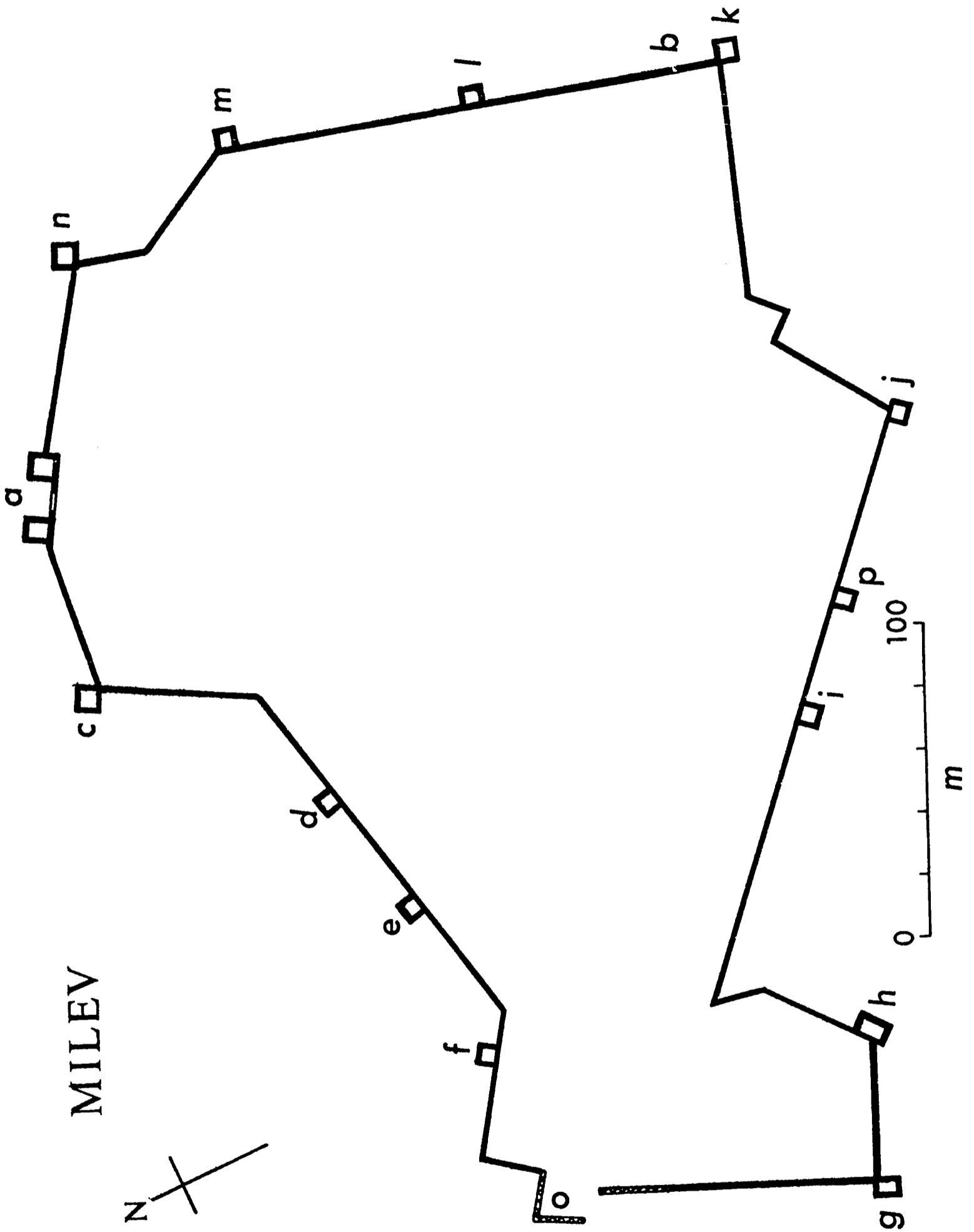


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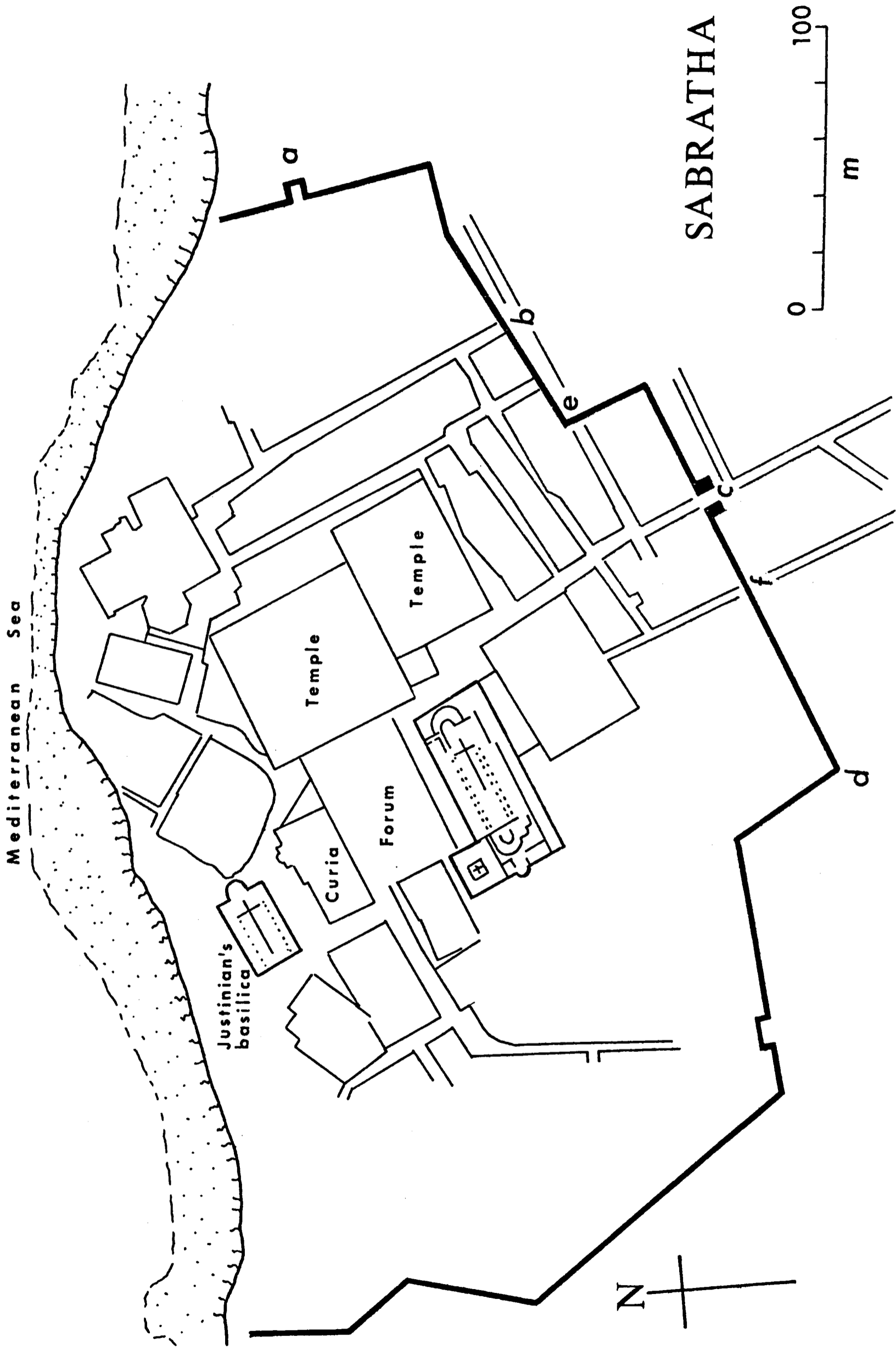


Figure 29.

SITIFIS

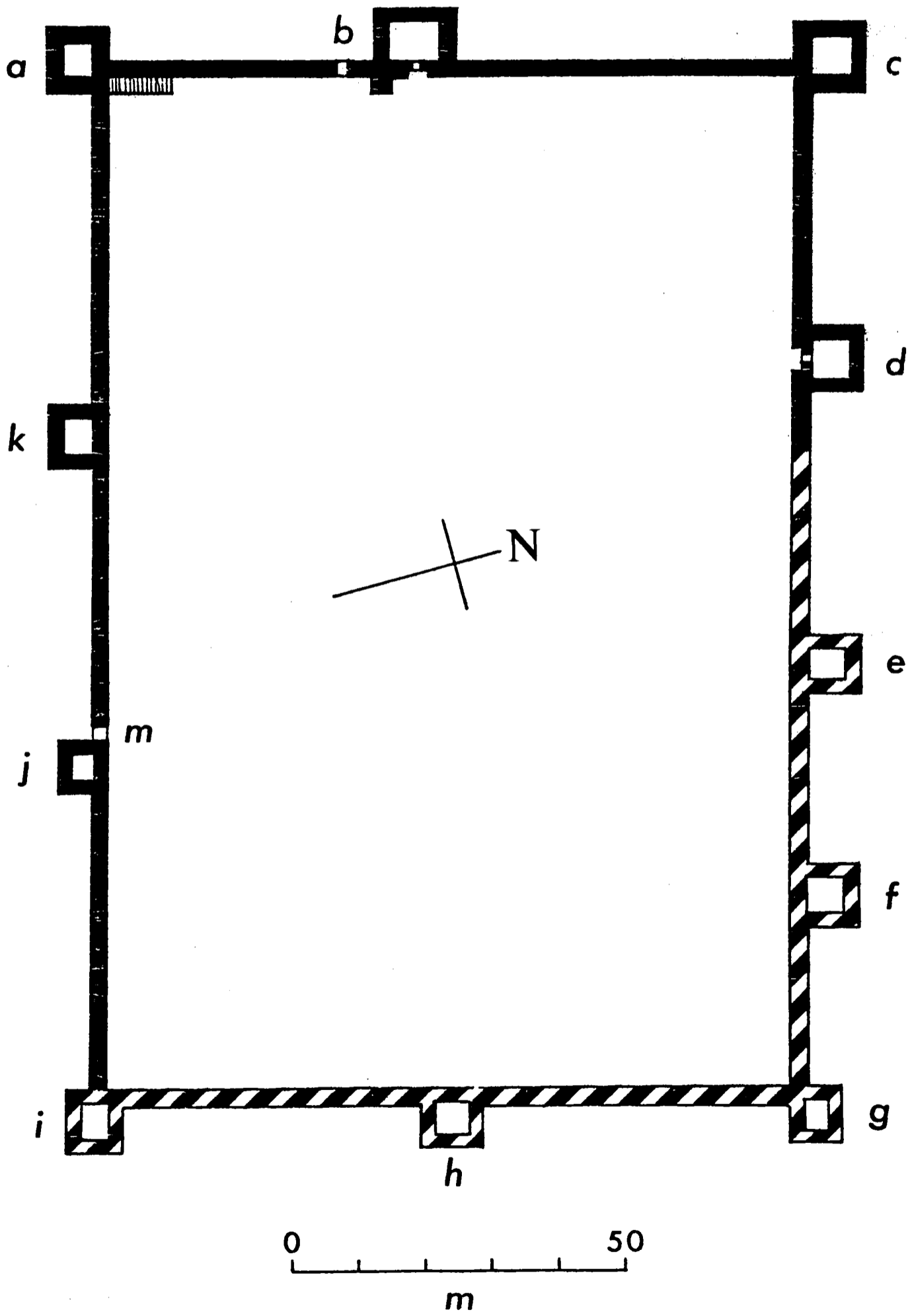


Figure 30.

SUFES

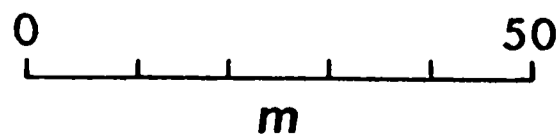
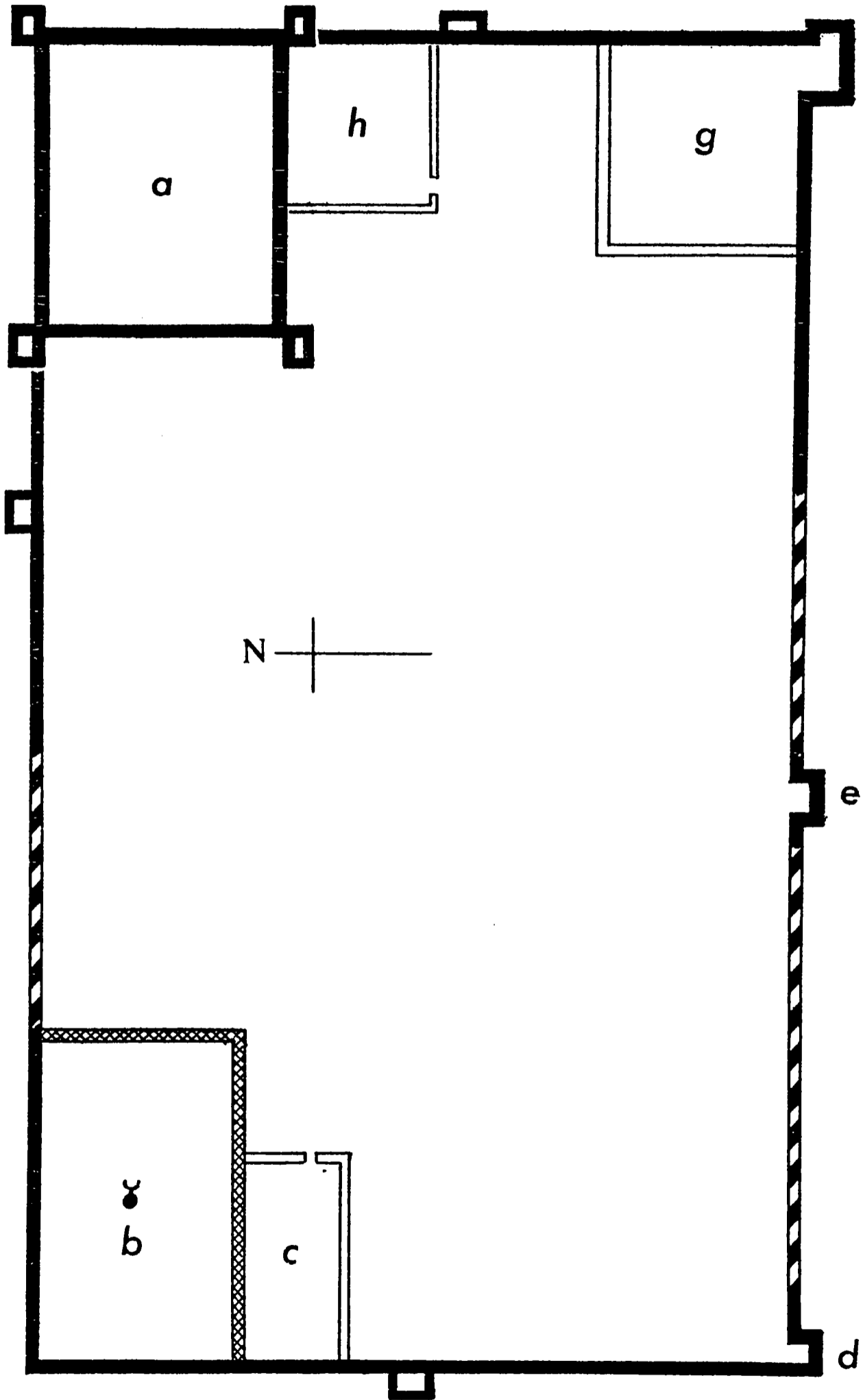


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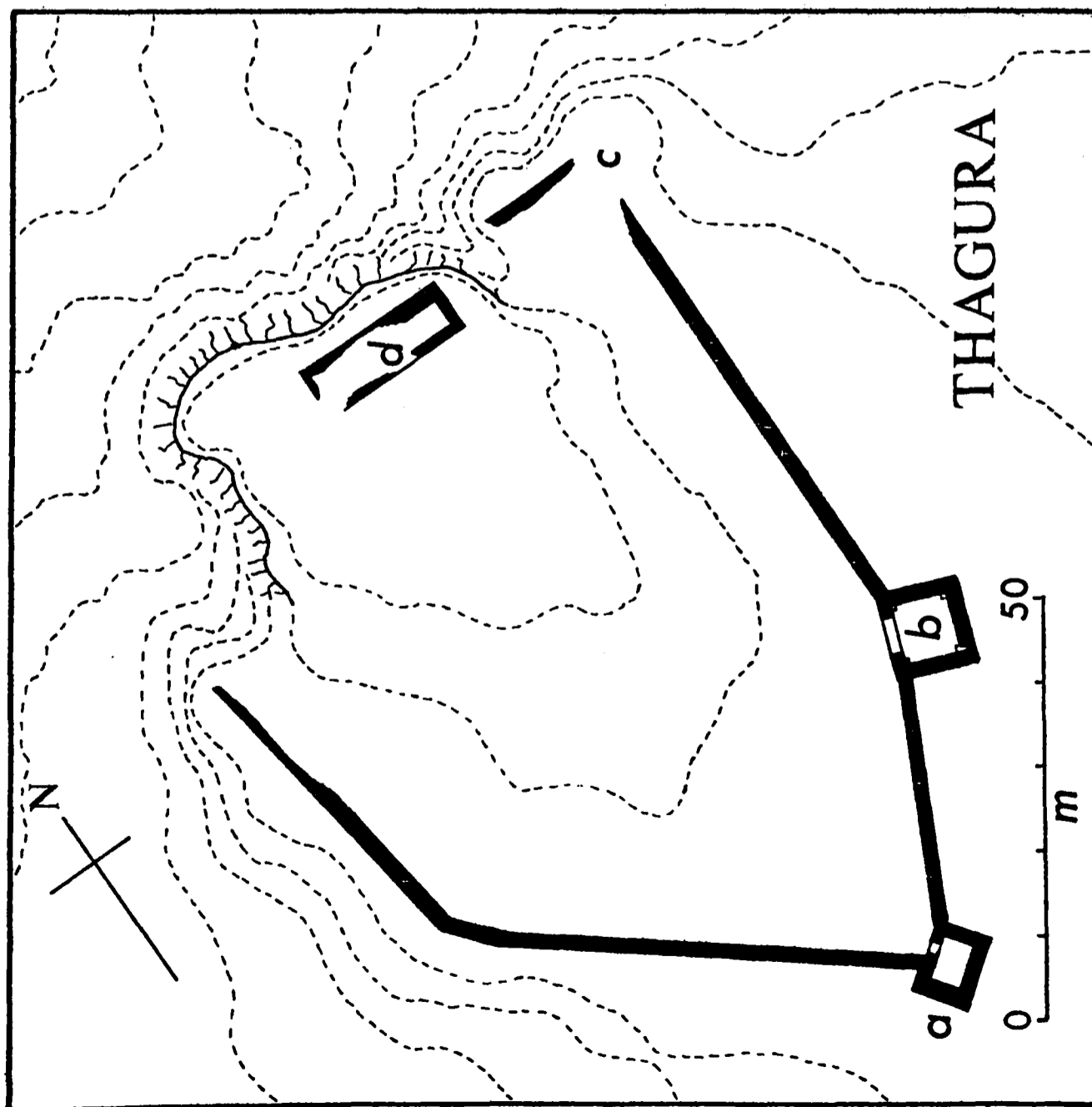
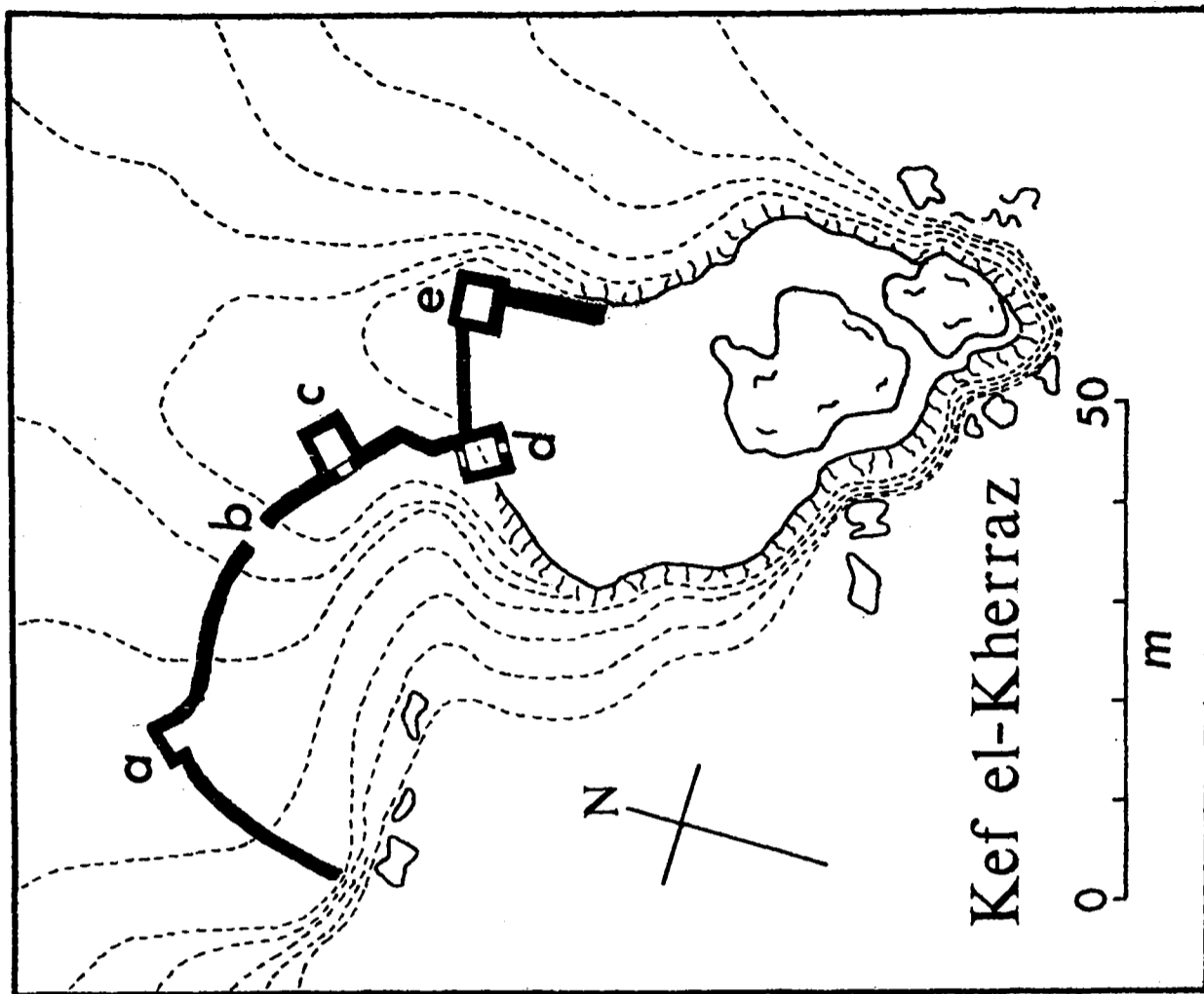
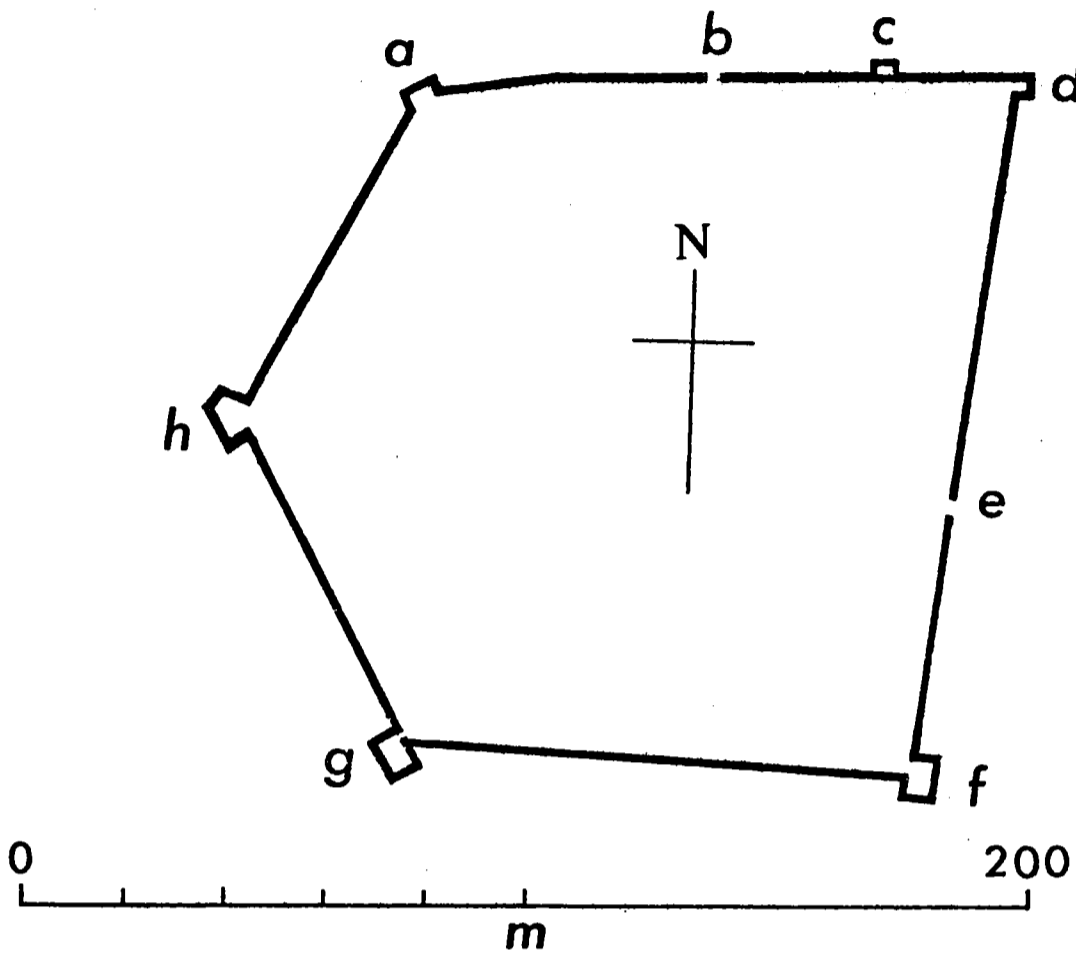


Figure 32.

THUBURSICU BURE



THEVESTE

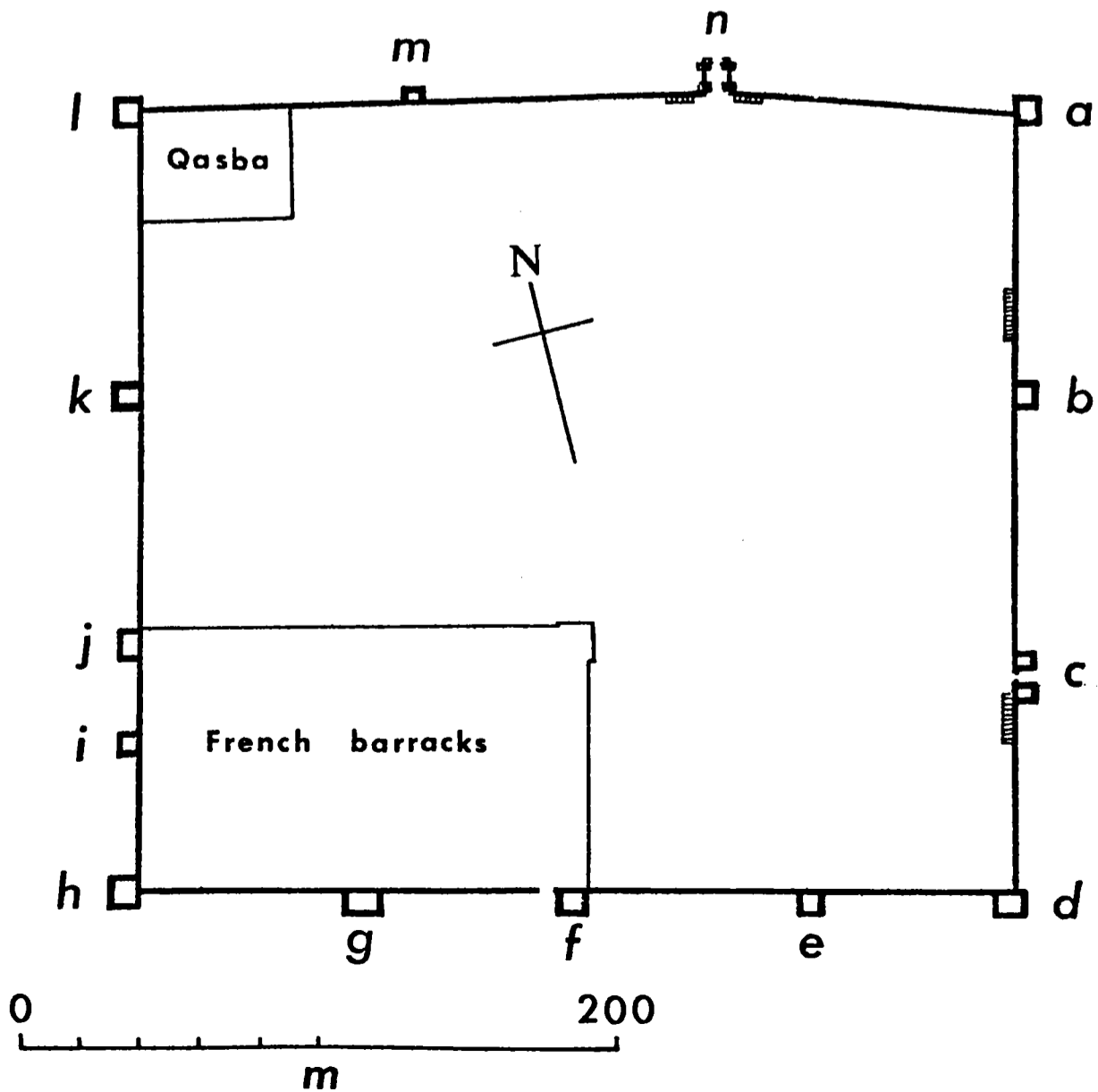


Figure 33.

THELEPTE

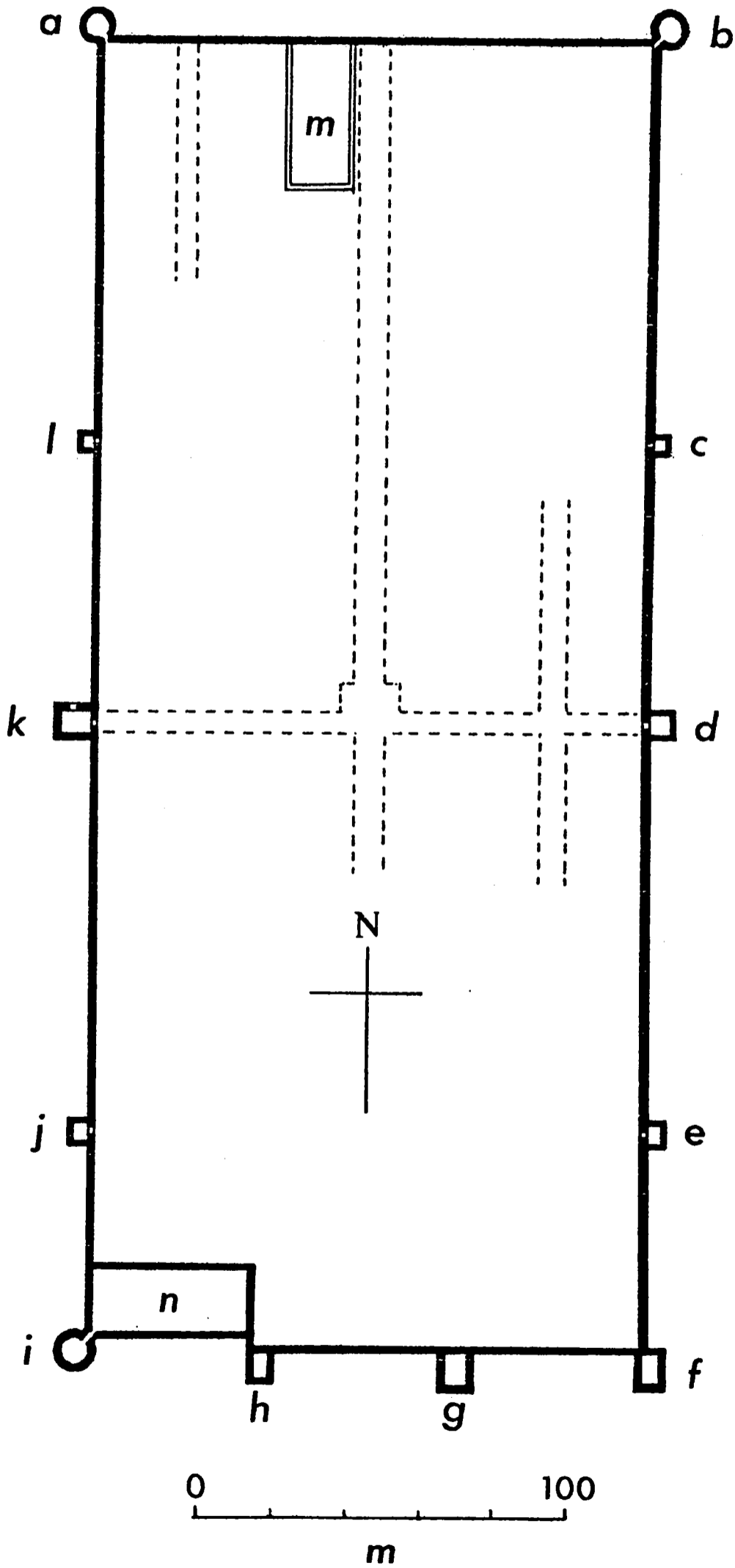


Figure 34.

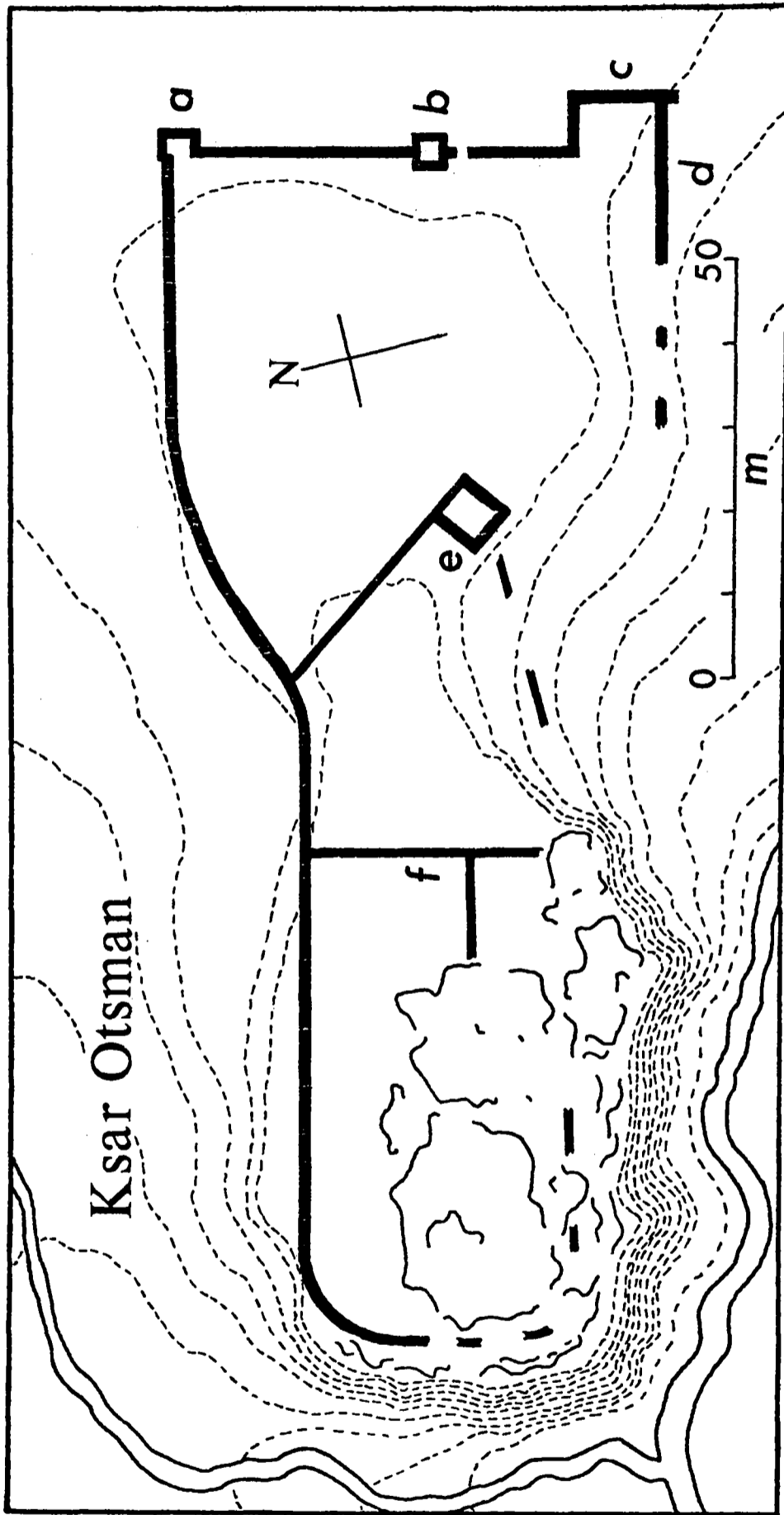


Figure 35.

MACTARIS

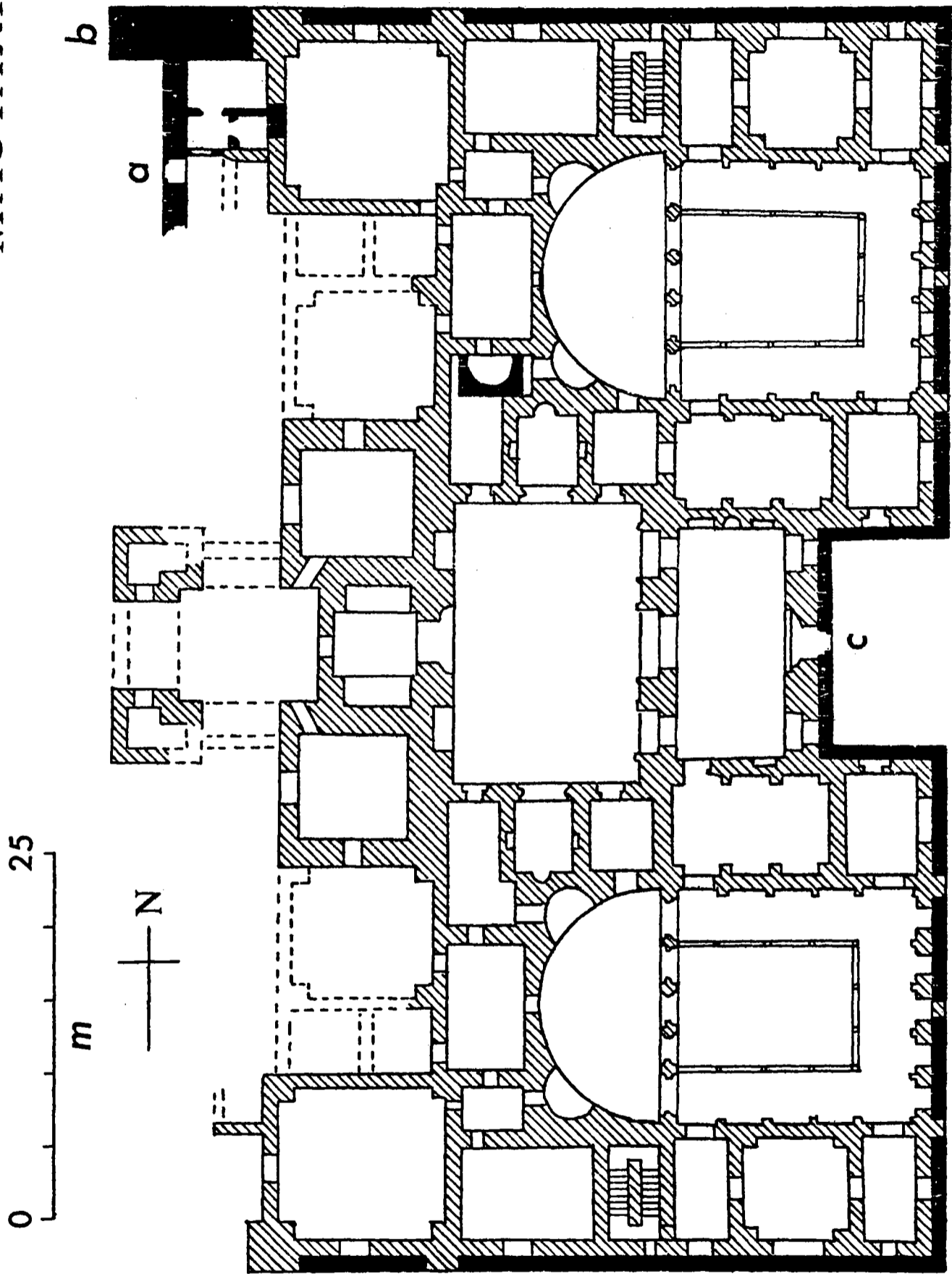


Figure 36.

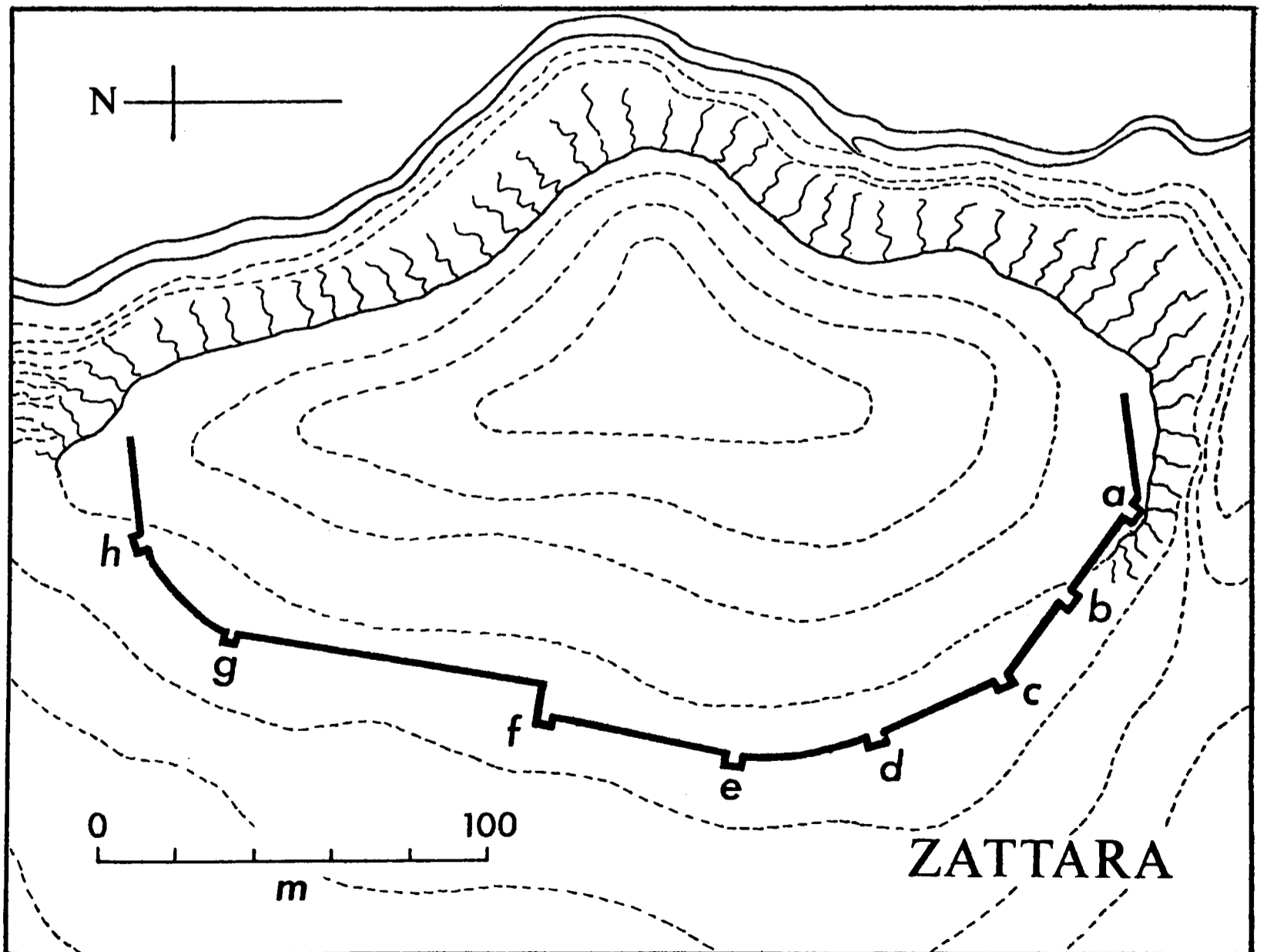
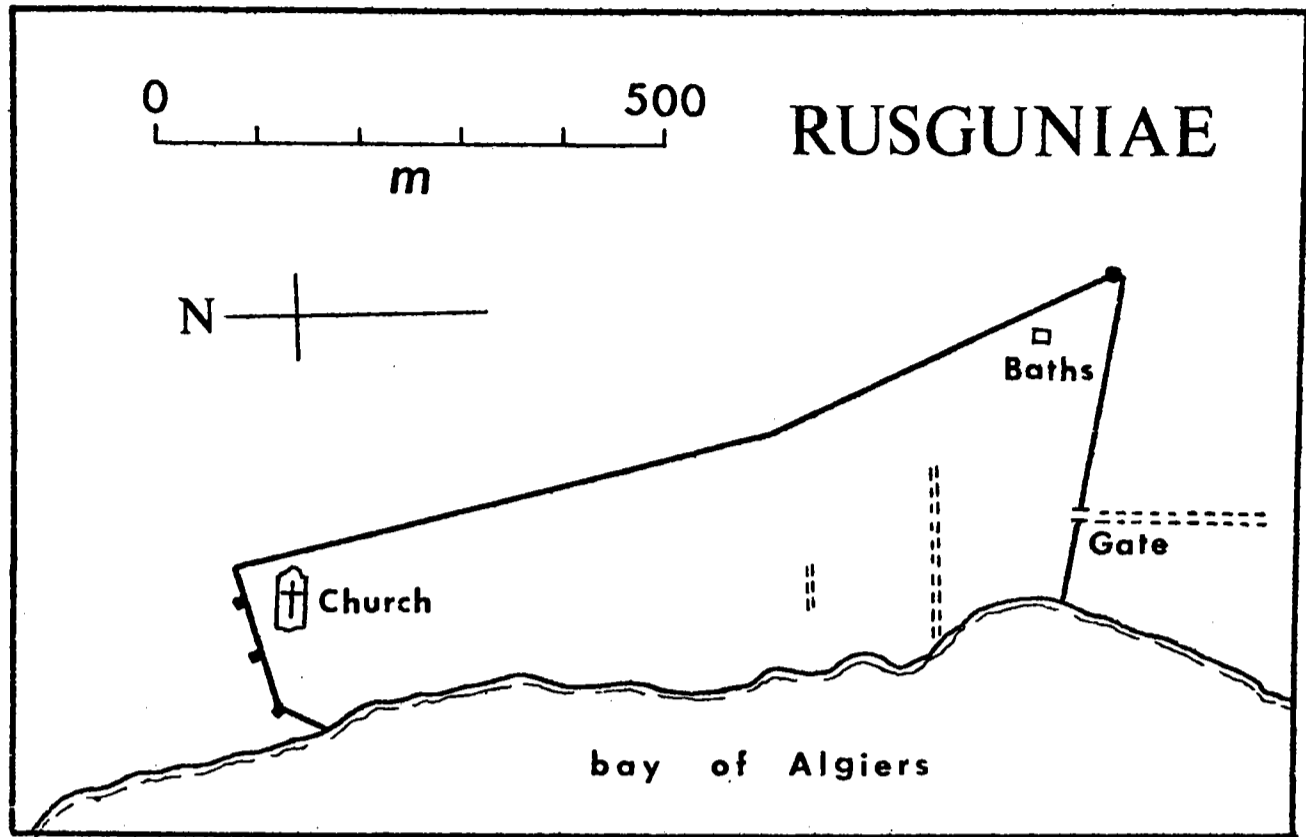


Figure 37.

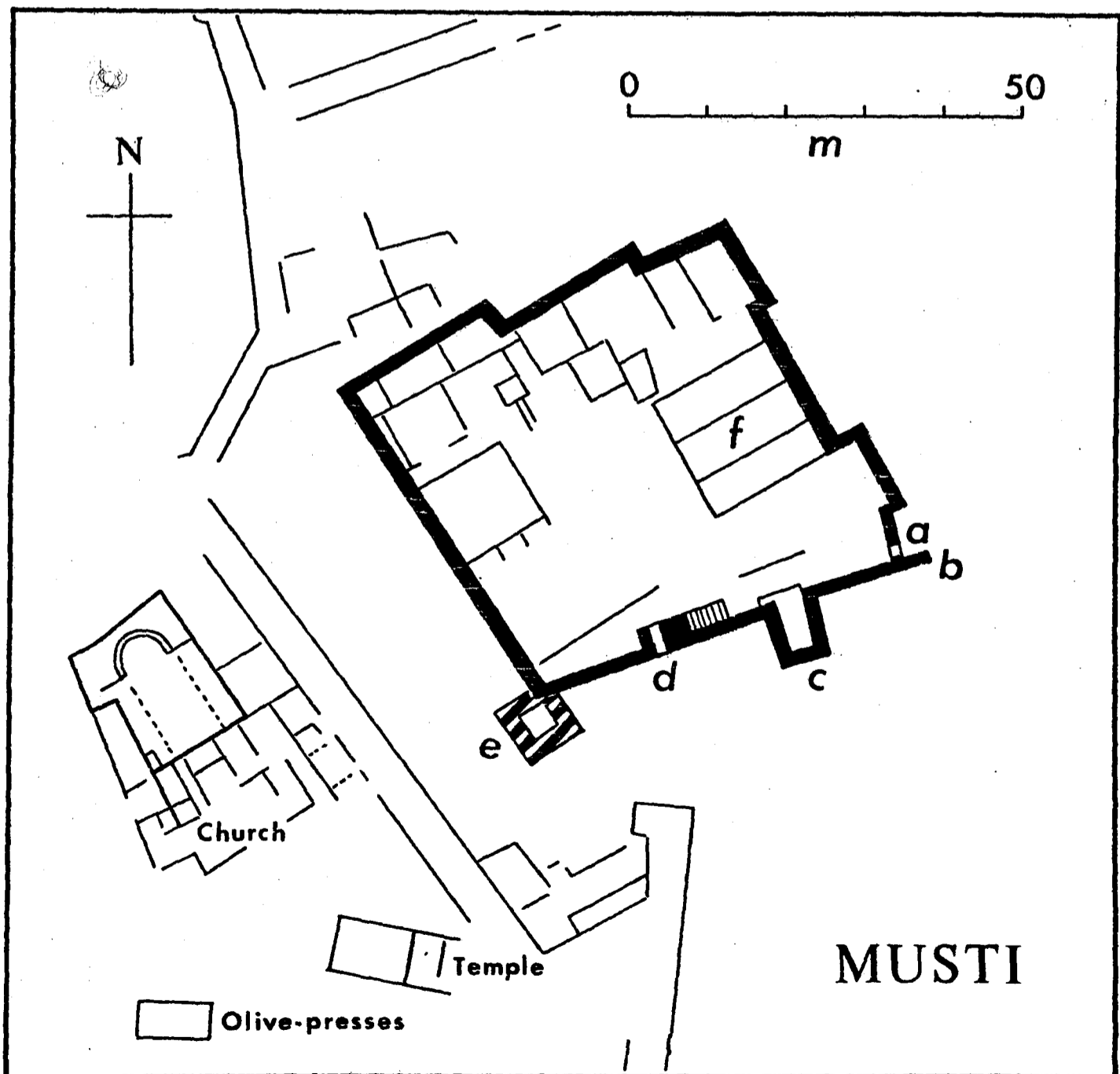
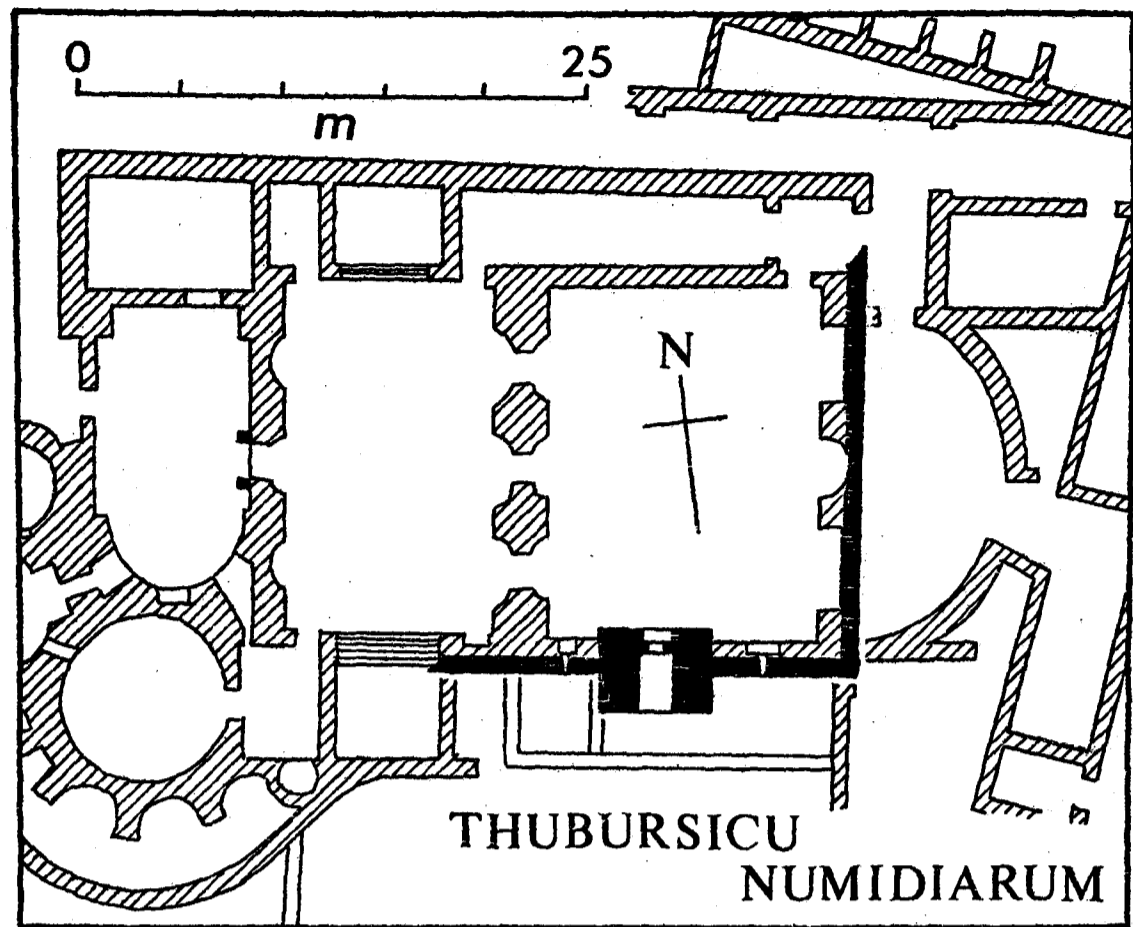


Figure 38.

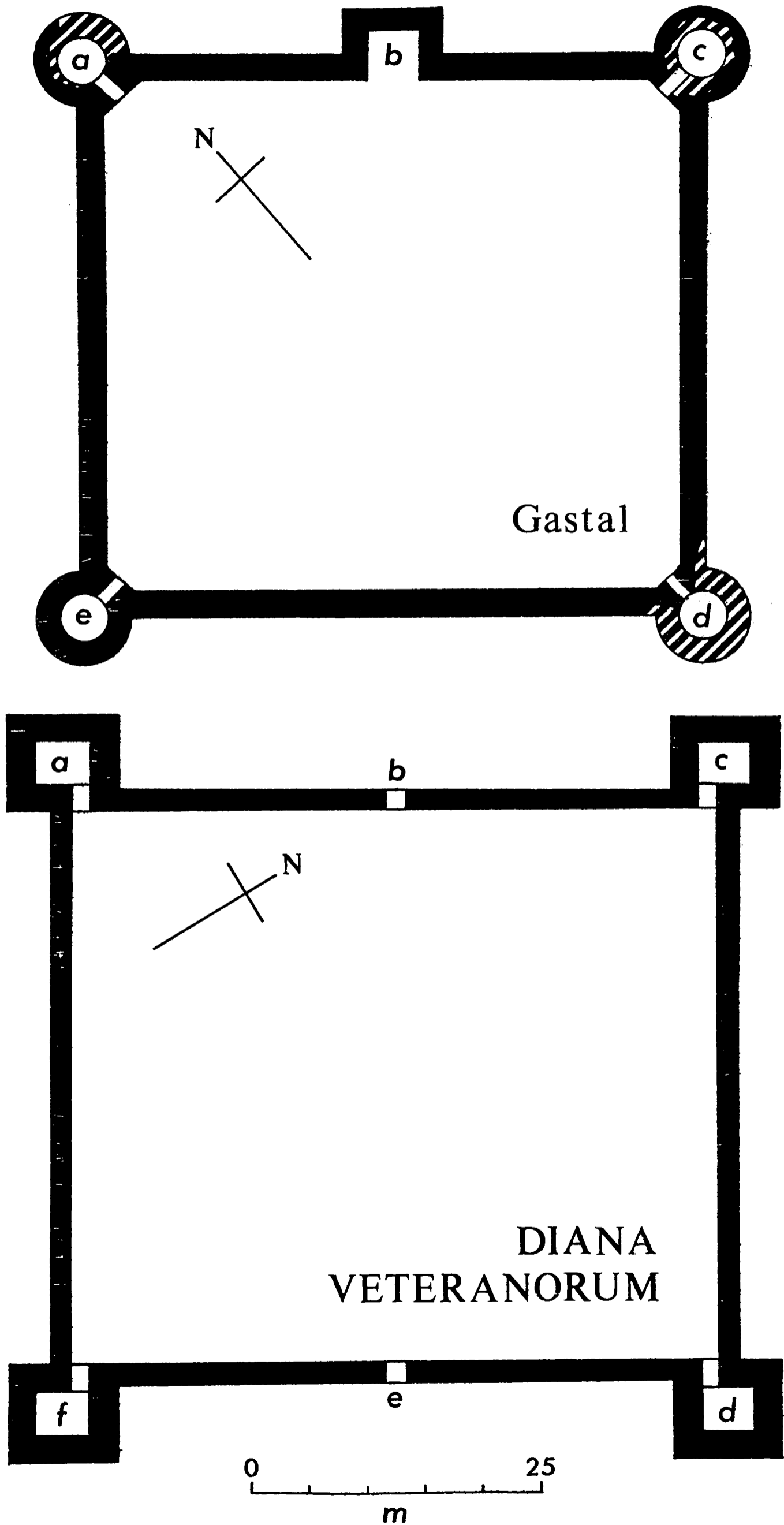


Figure 39.

THAMALLULA

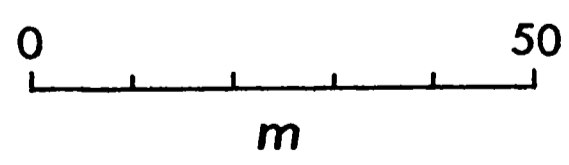
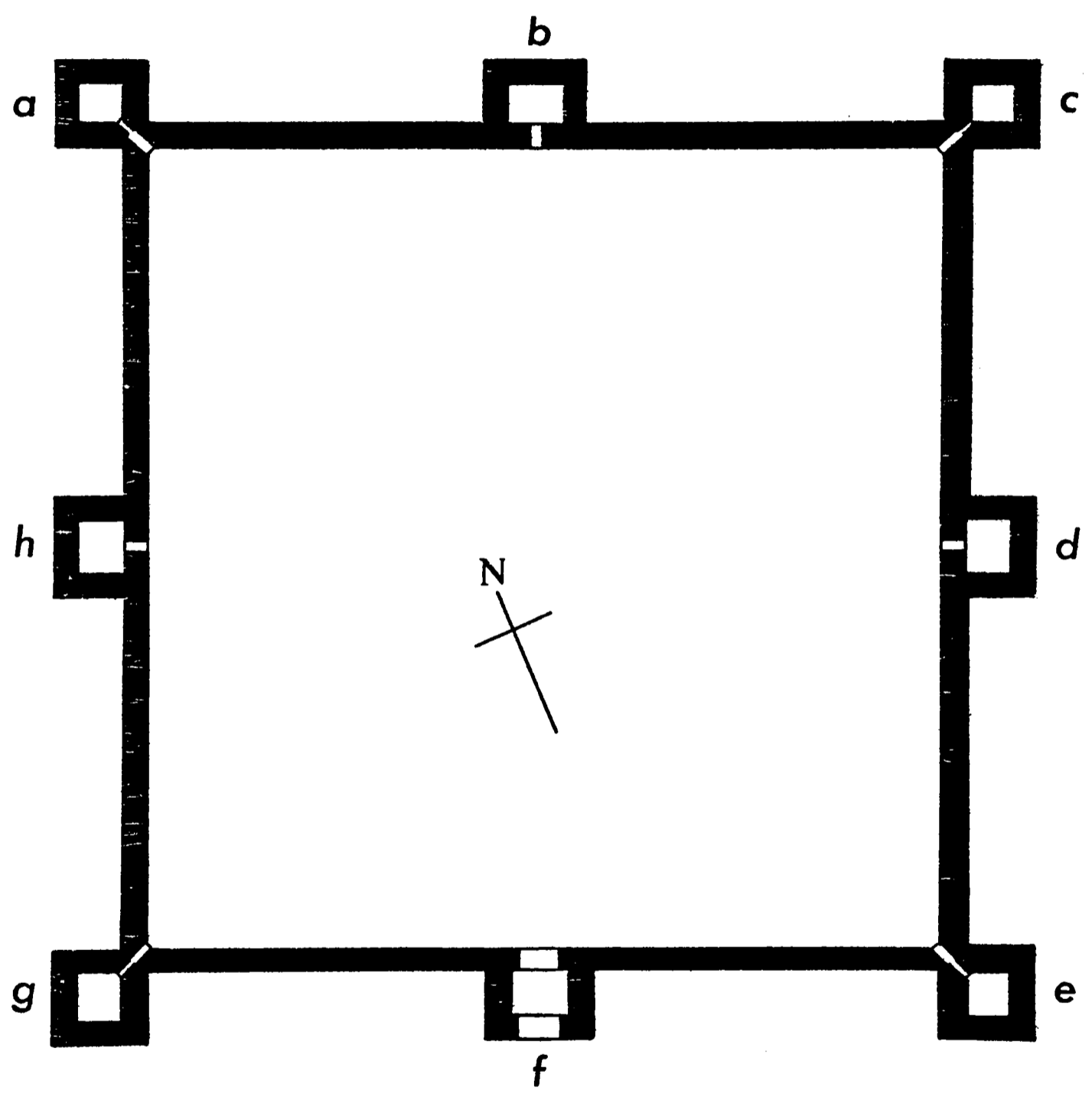


Figure 40.

TIGNICA

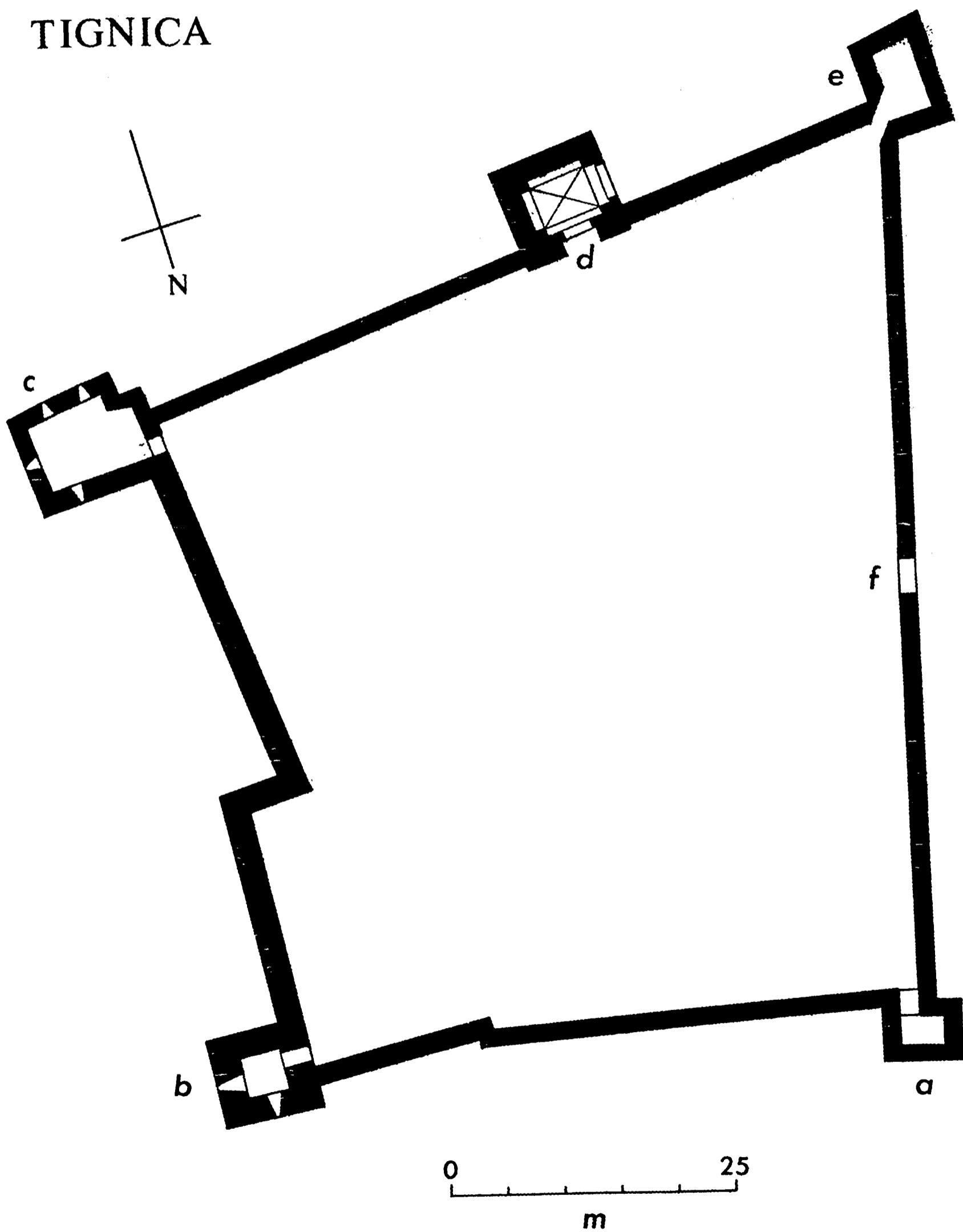


Figure 41.

TIPASA
Tifech

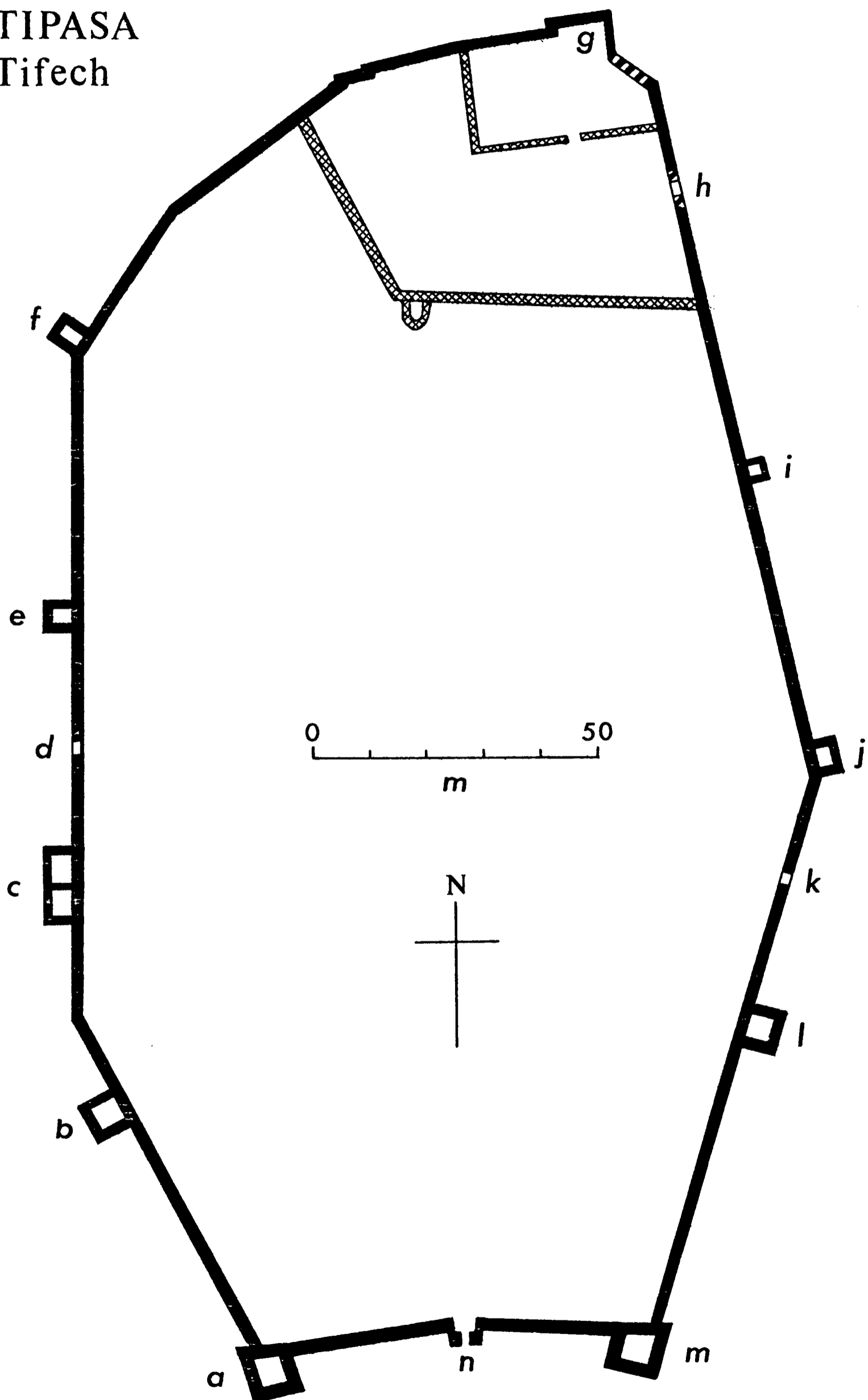


Figure 42.

TUBUNAE

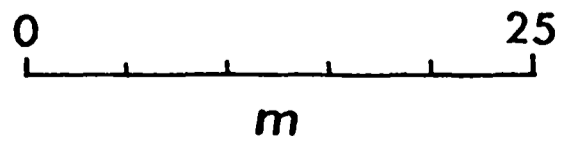
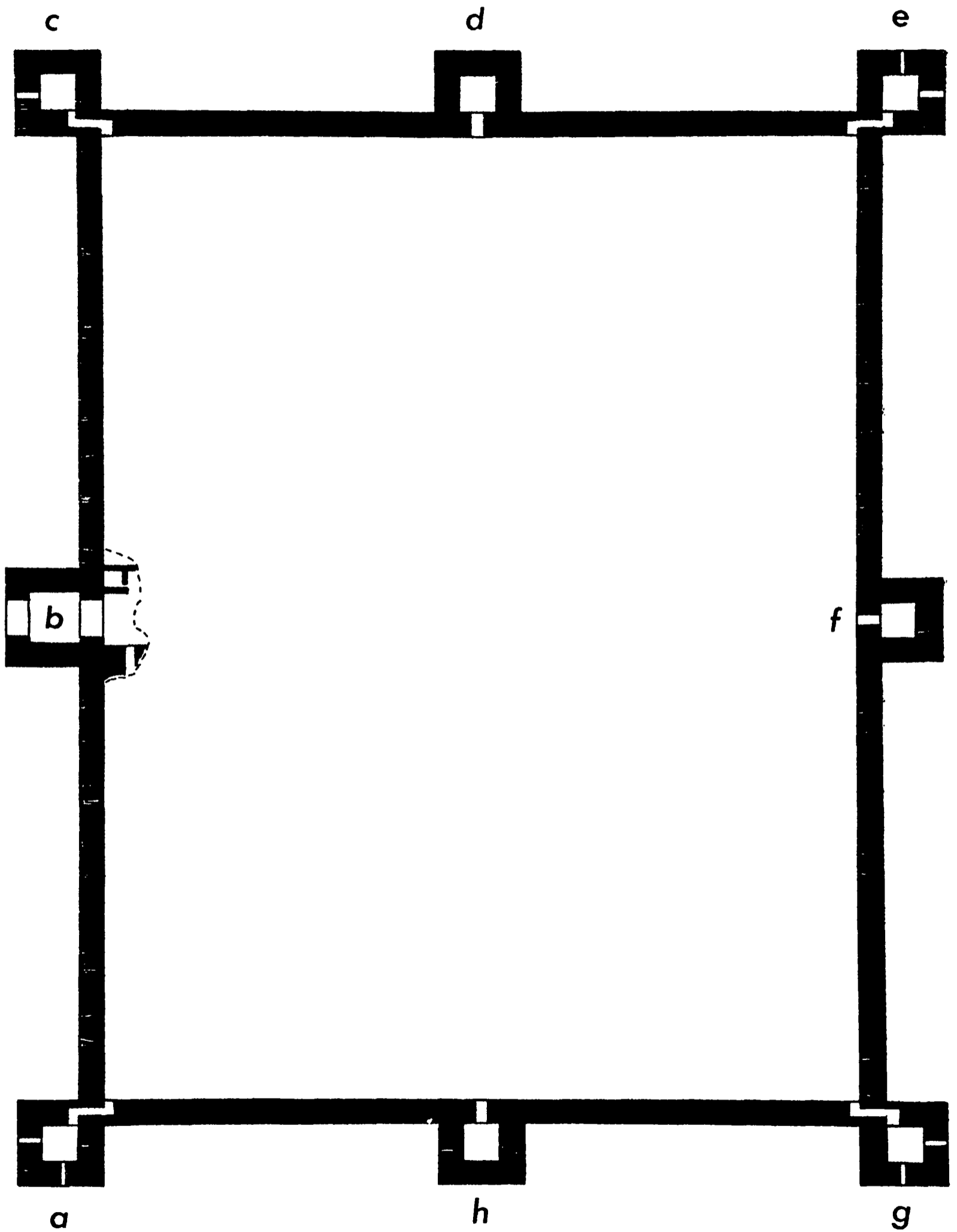


Figure 43.

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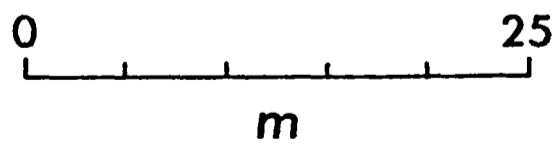
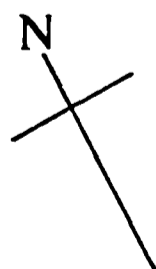
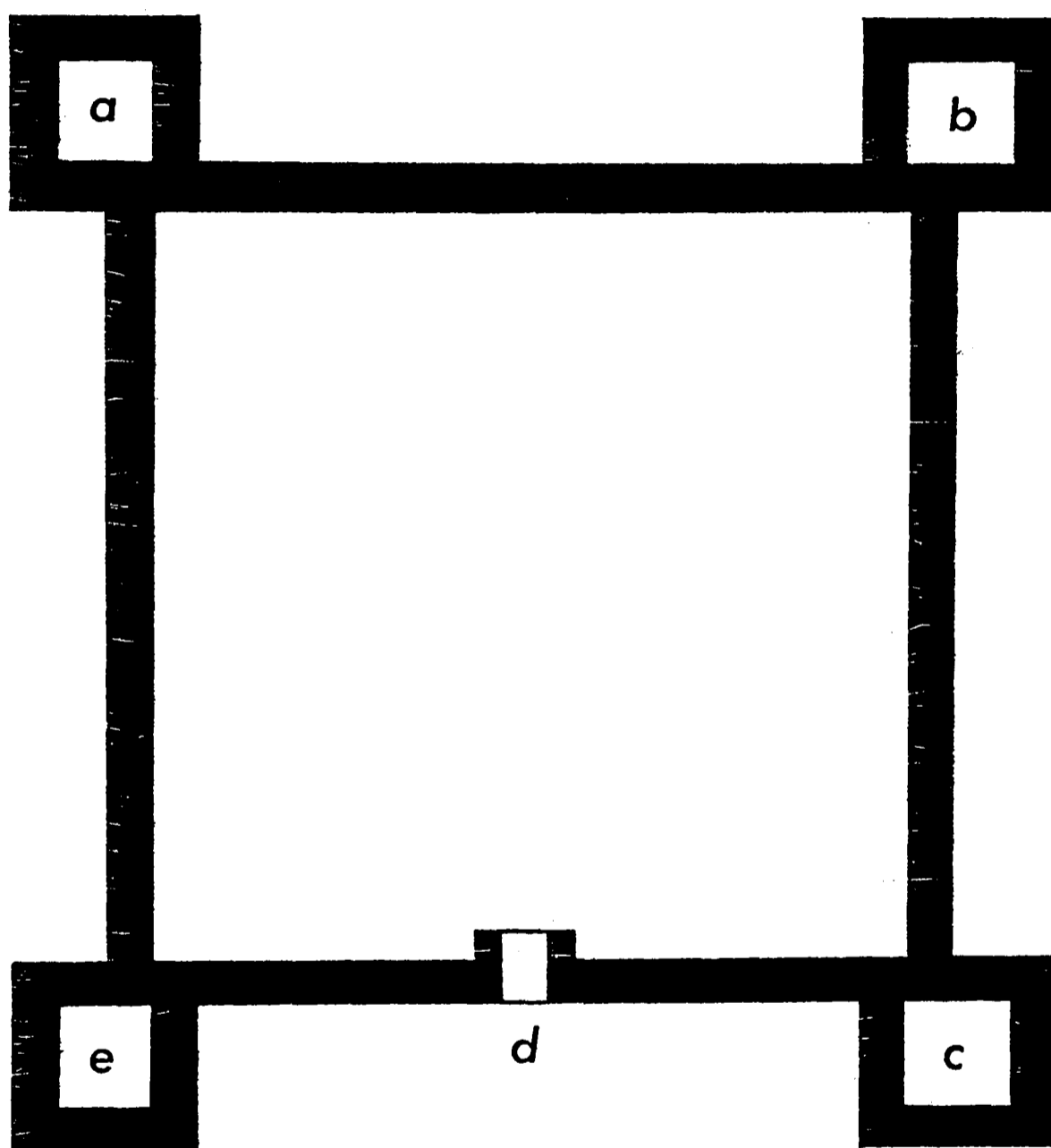
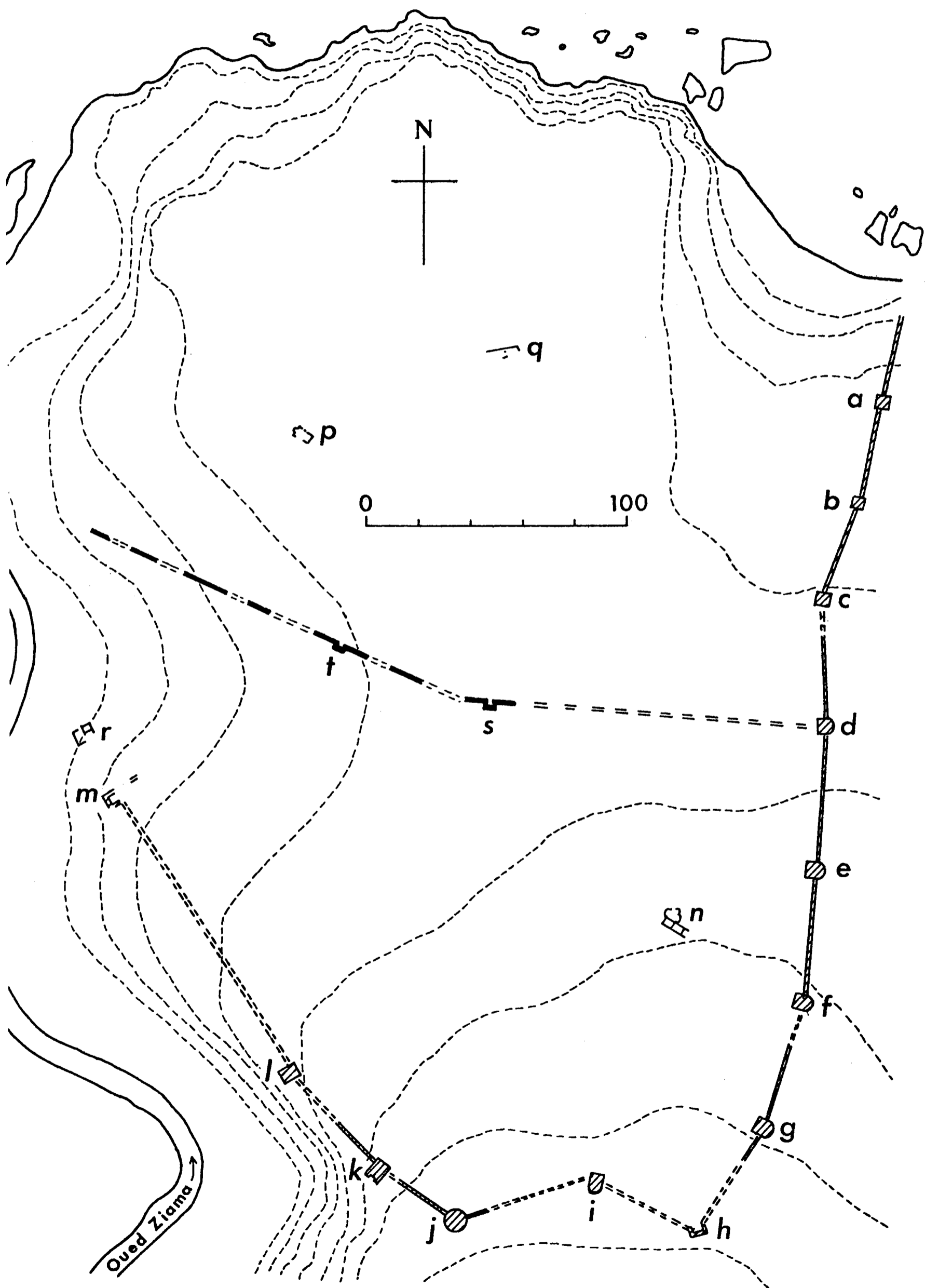


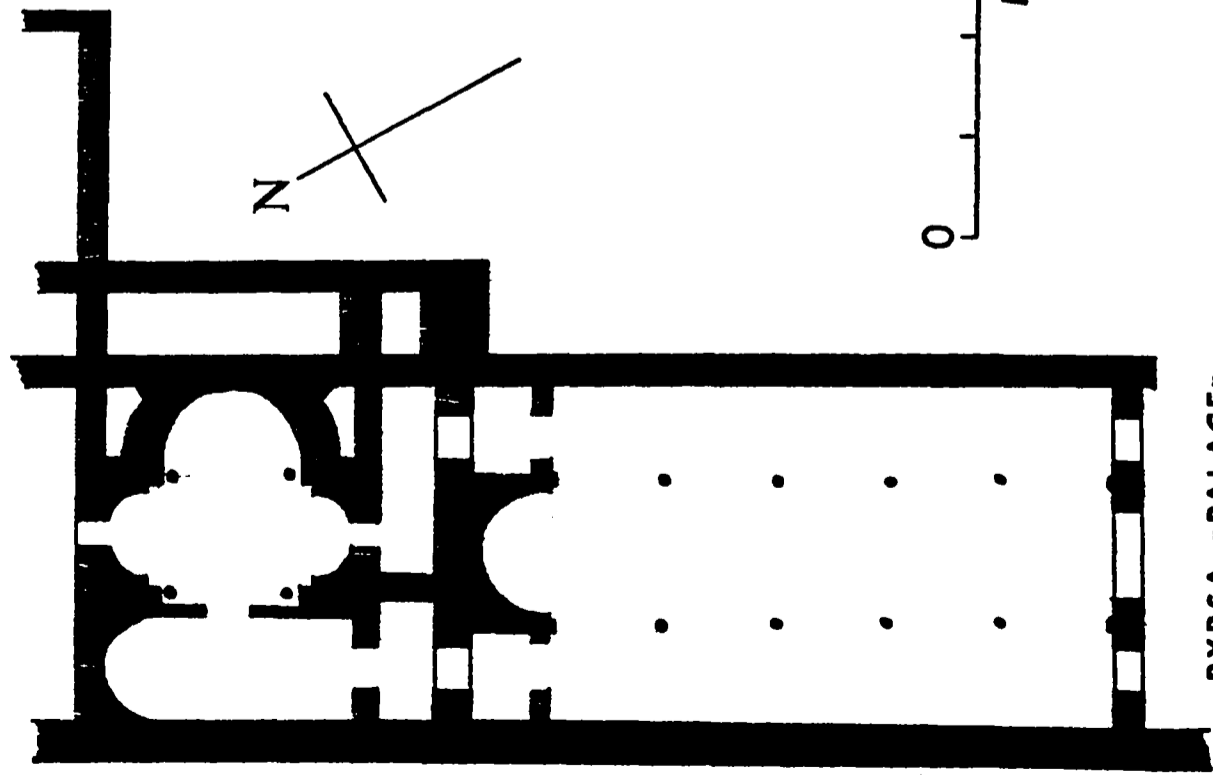
Figure 44.

CHOBA

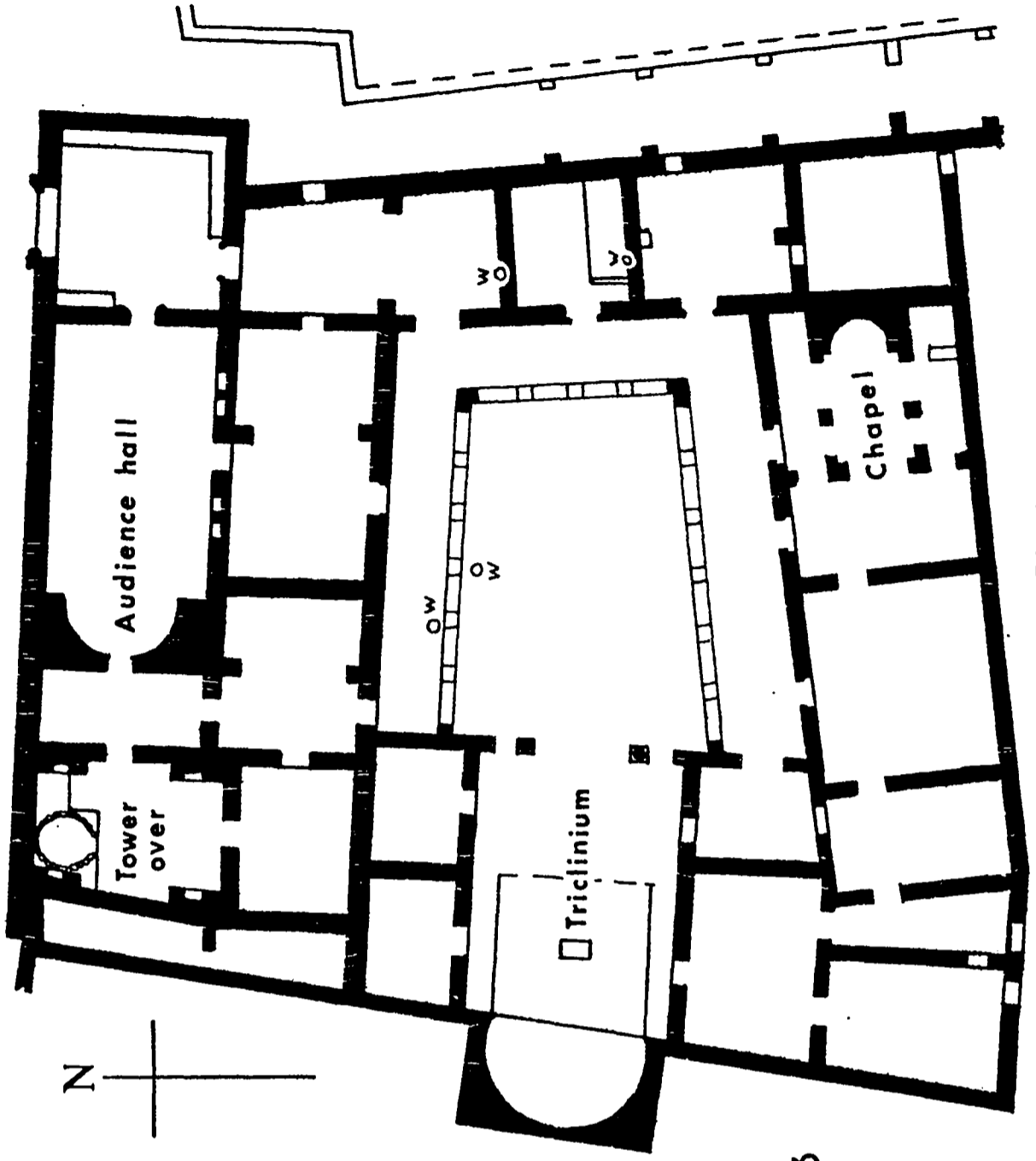


CARTHAGO

APOLLONIA-SOZUSA



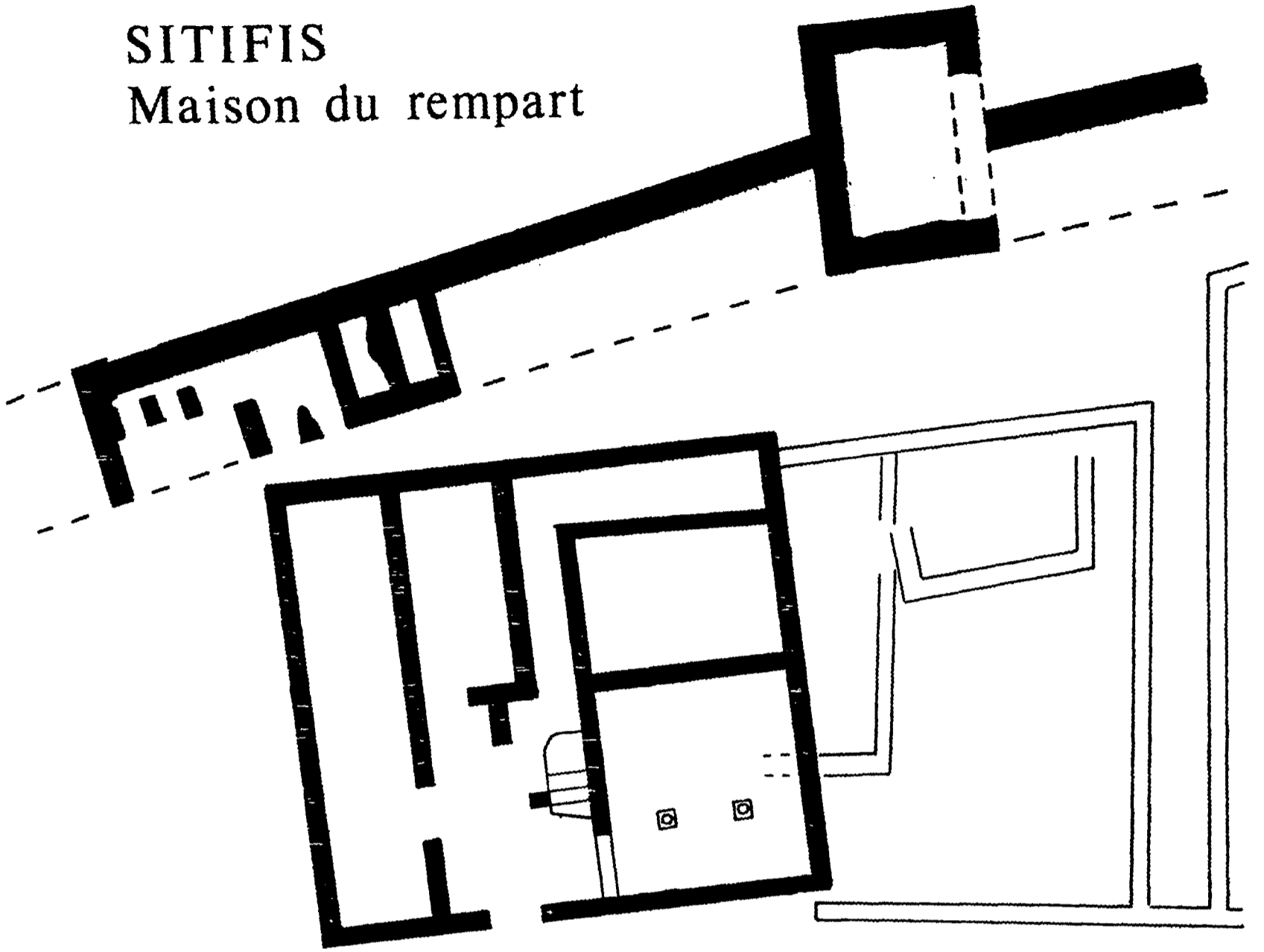
BYRSA «PALACE»



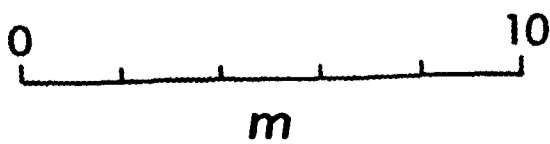
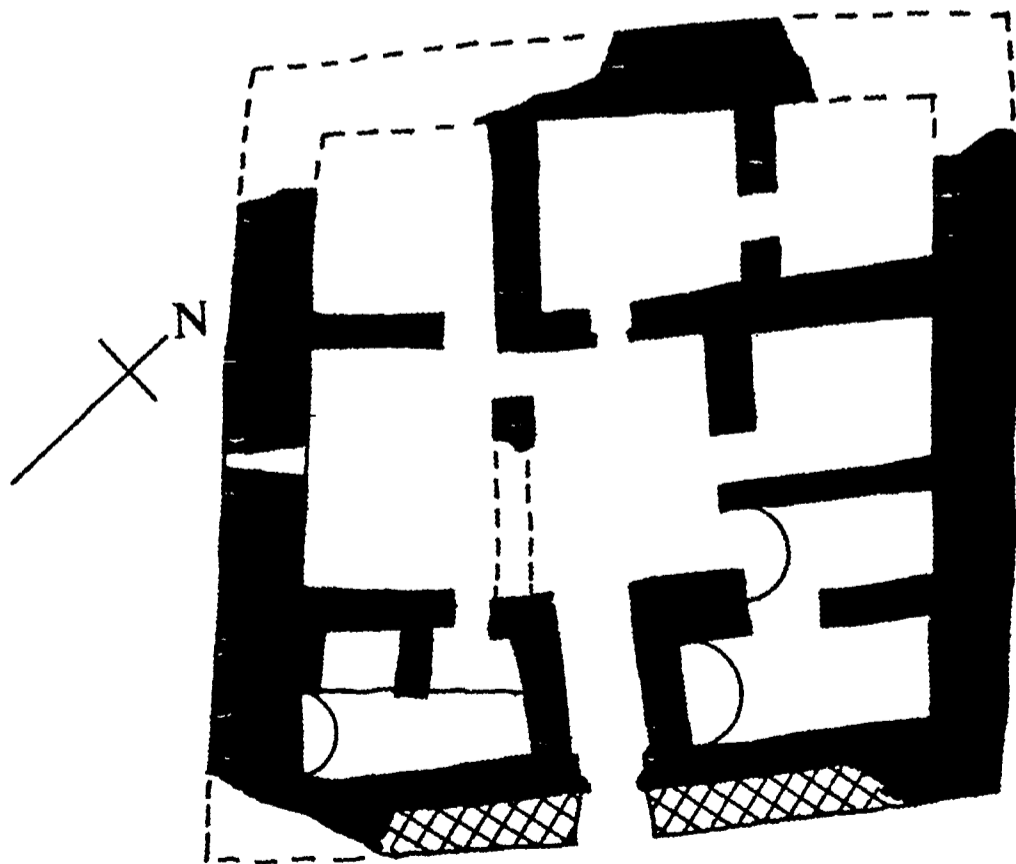
DUCAL PALACE

Figure 45.

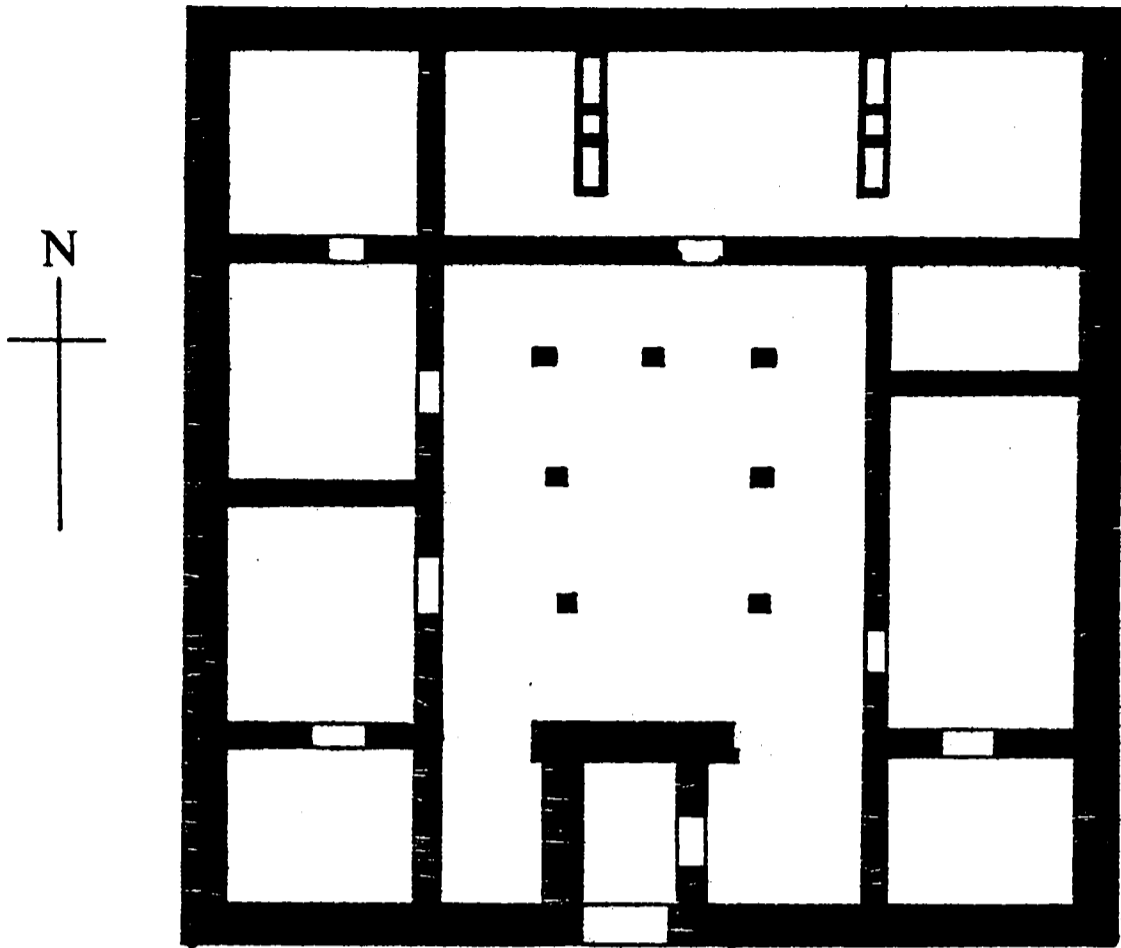
SITIFIS
Maison du rempart



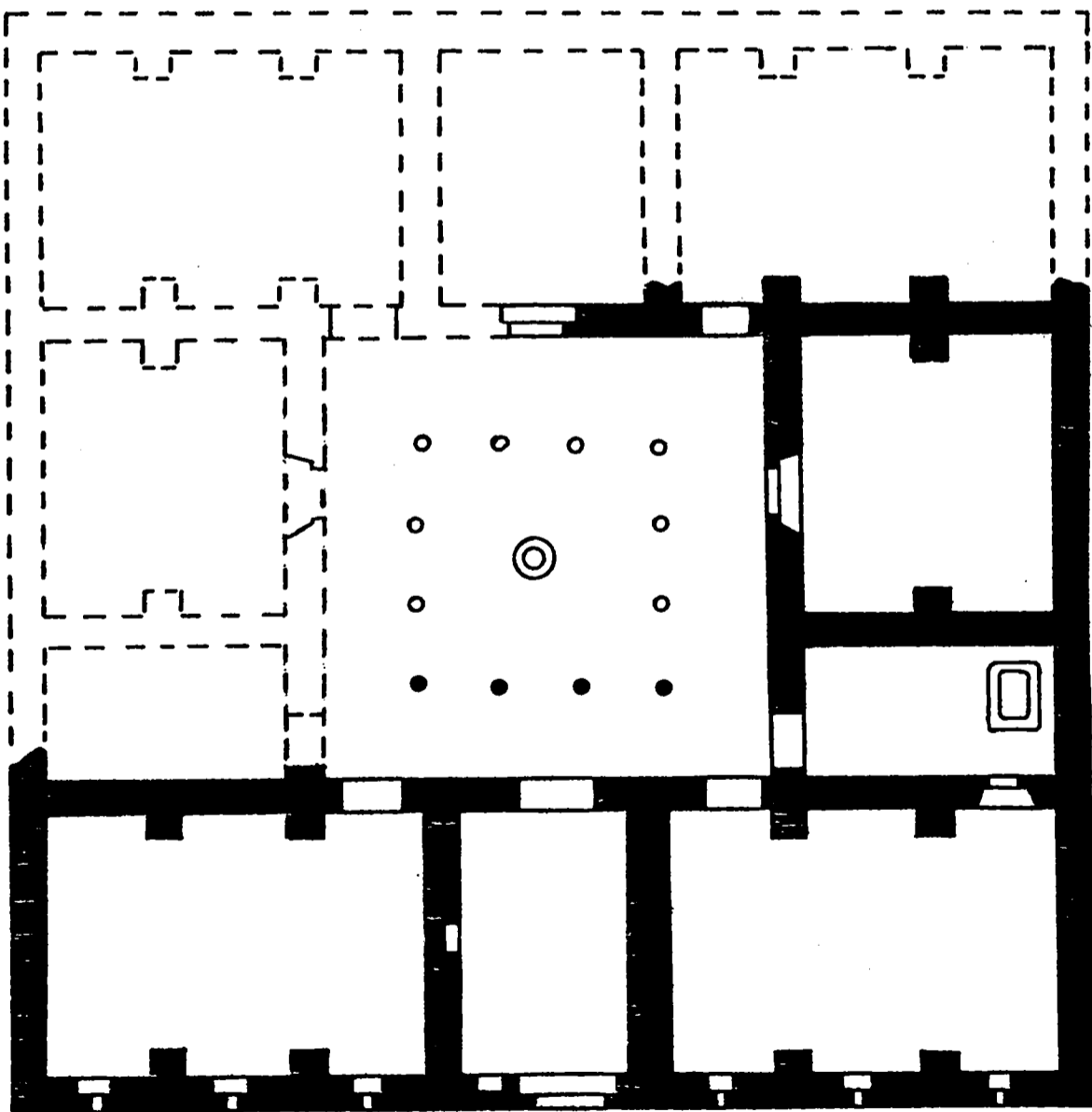
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Henchir el-Gueciret



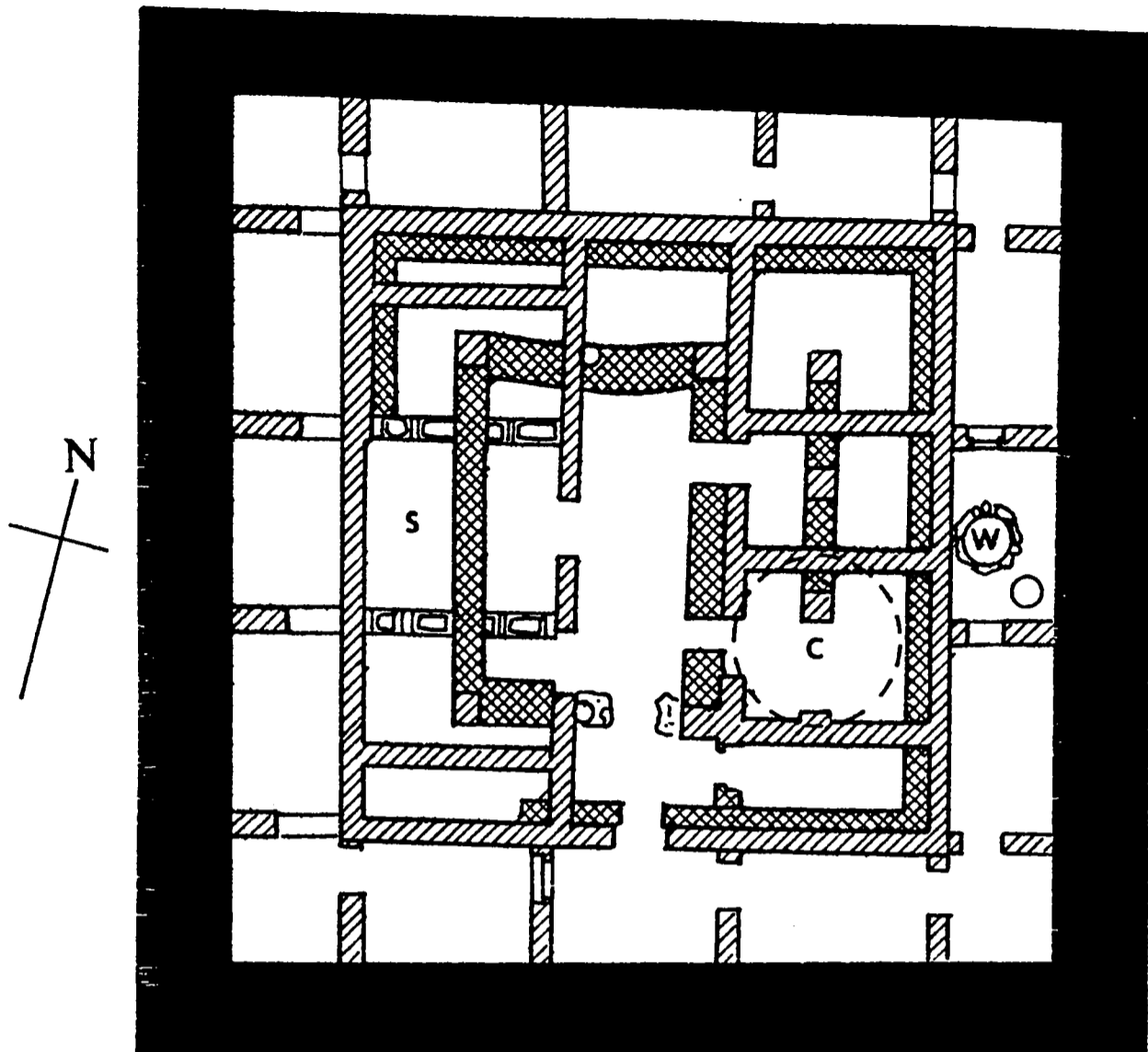
It-Tûbā (Syria)



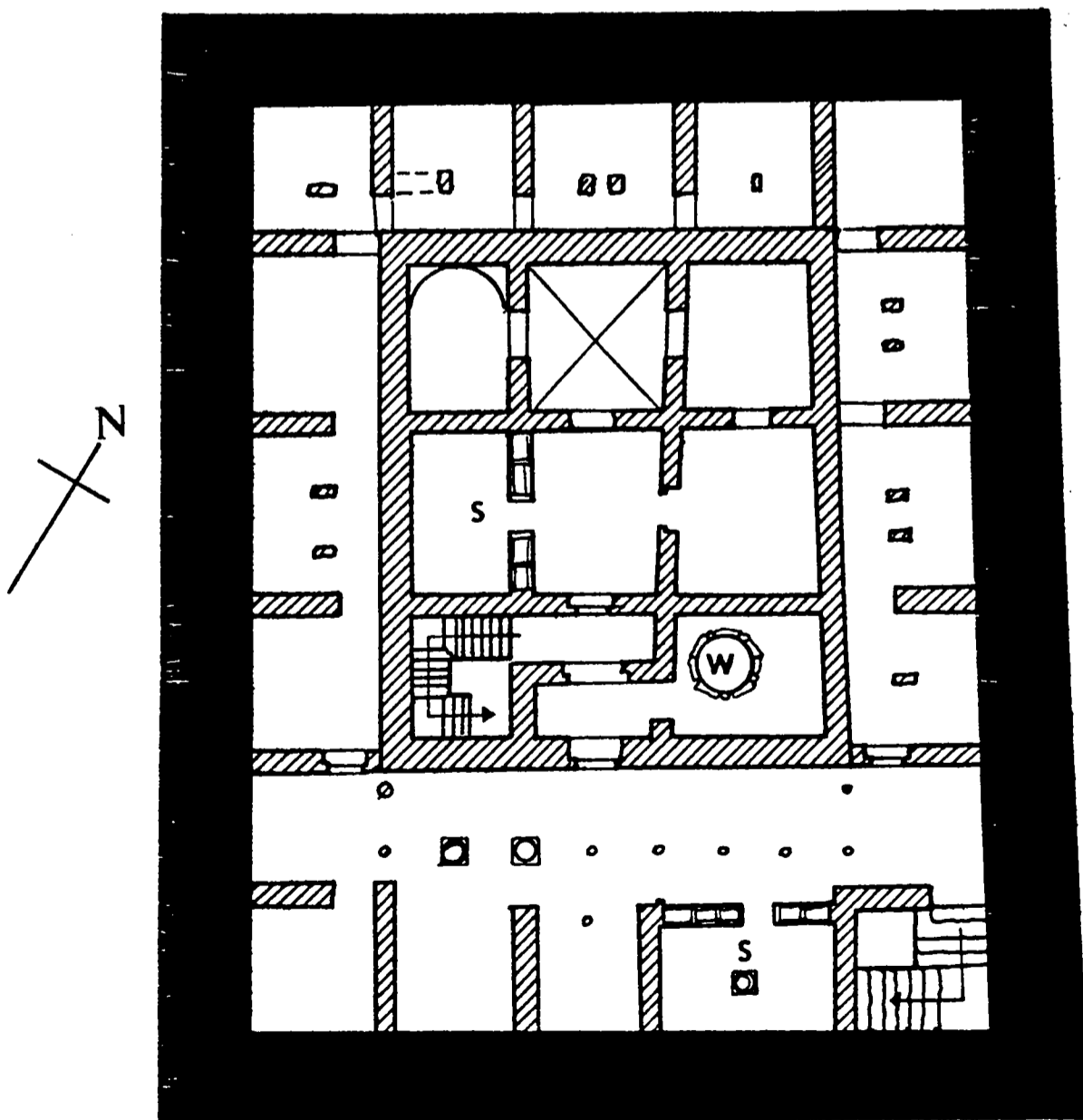
0 10
m

Figure 48.

SUFETULA



NORTHERN FORTLET



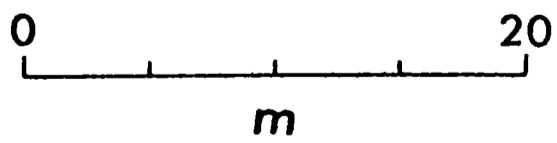
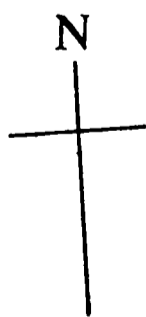
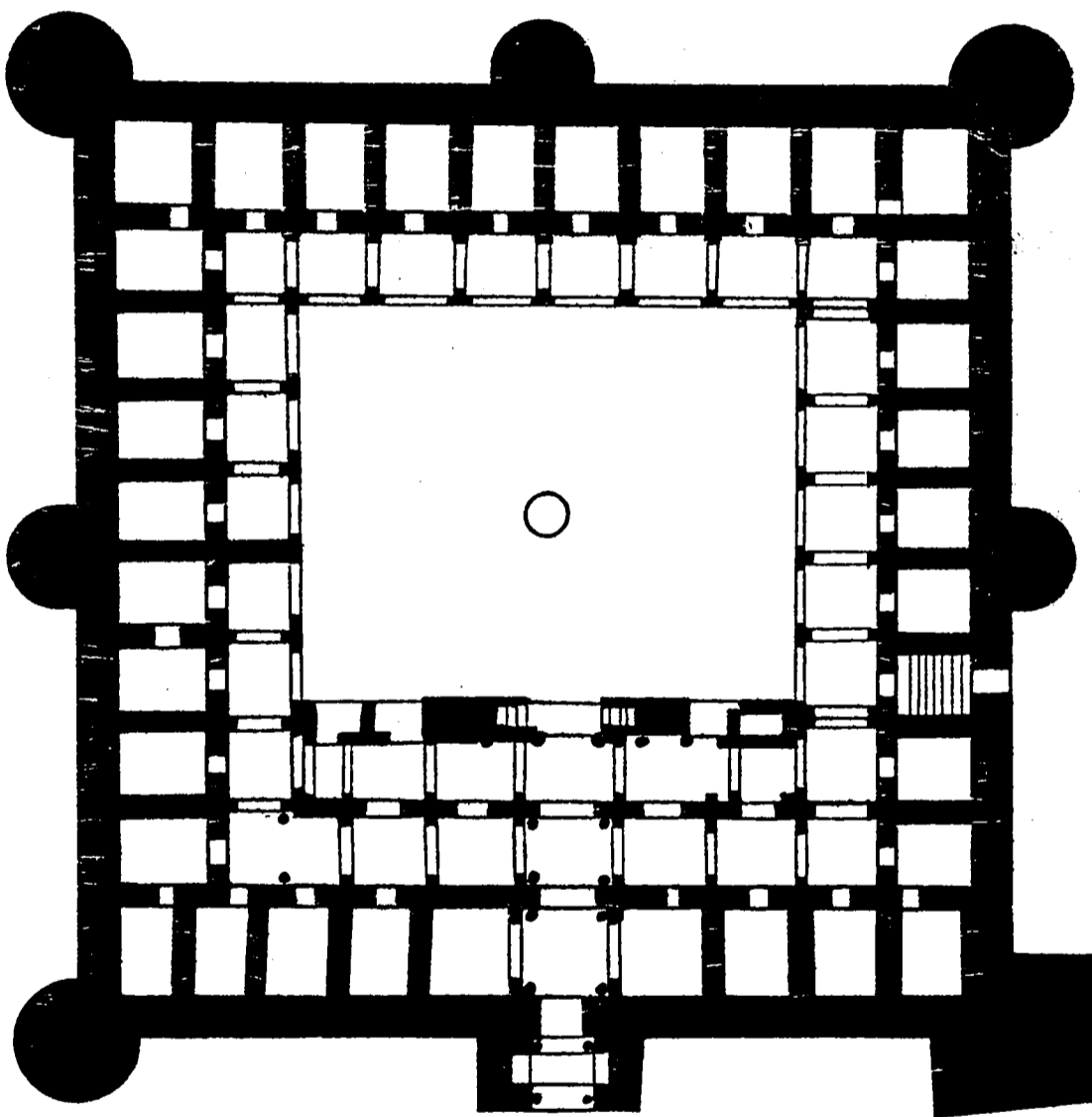
SOUTHERN FORTLET



Figure 49.

Sousse

The Ribat



PLATES I - LXXVII.

PLATE I.



A.



B.

PLATE II.



A.



B.

PLATE III.



A .



B .

PLATE IV.



A.



B.

PLATE V.



A



B .

PLATE VI.



A.



B.

PLATE VII.



A.



B.



A.



B.



A.



B.

PLATE X.



A.



B.

PLATE XI.



A.



B.

PLATE XII.

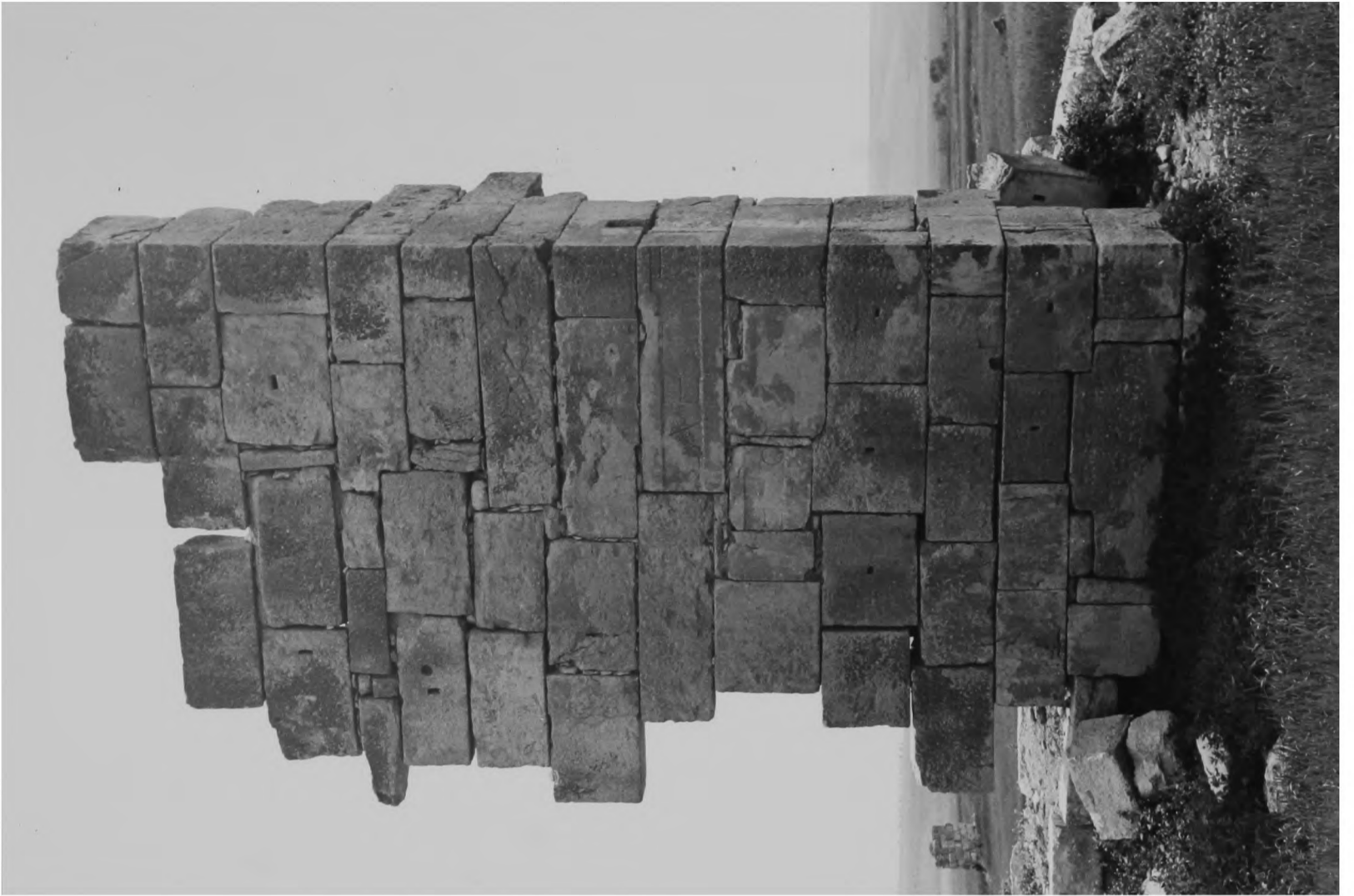


A.



B.

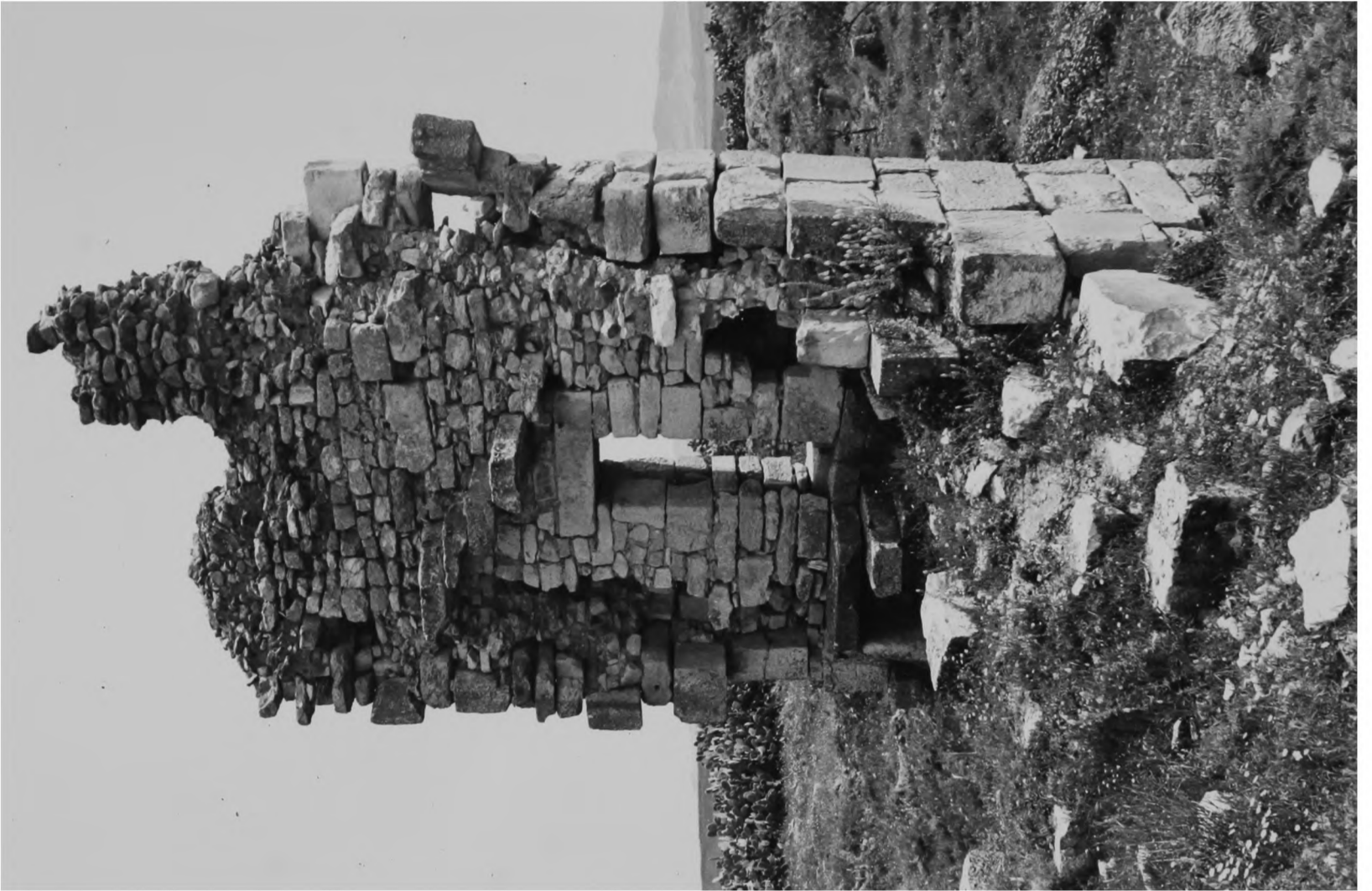
A.



B.



A.



B.



PLATE XV.



A.



B.

PLATE XVI.



A.



B.

A.



B.



PLATE XVIII.



A.



B.

PLATE XIX.



A.



B.

PLATE XX.



A.



B.

PLATE XXI.

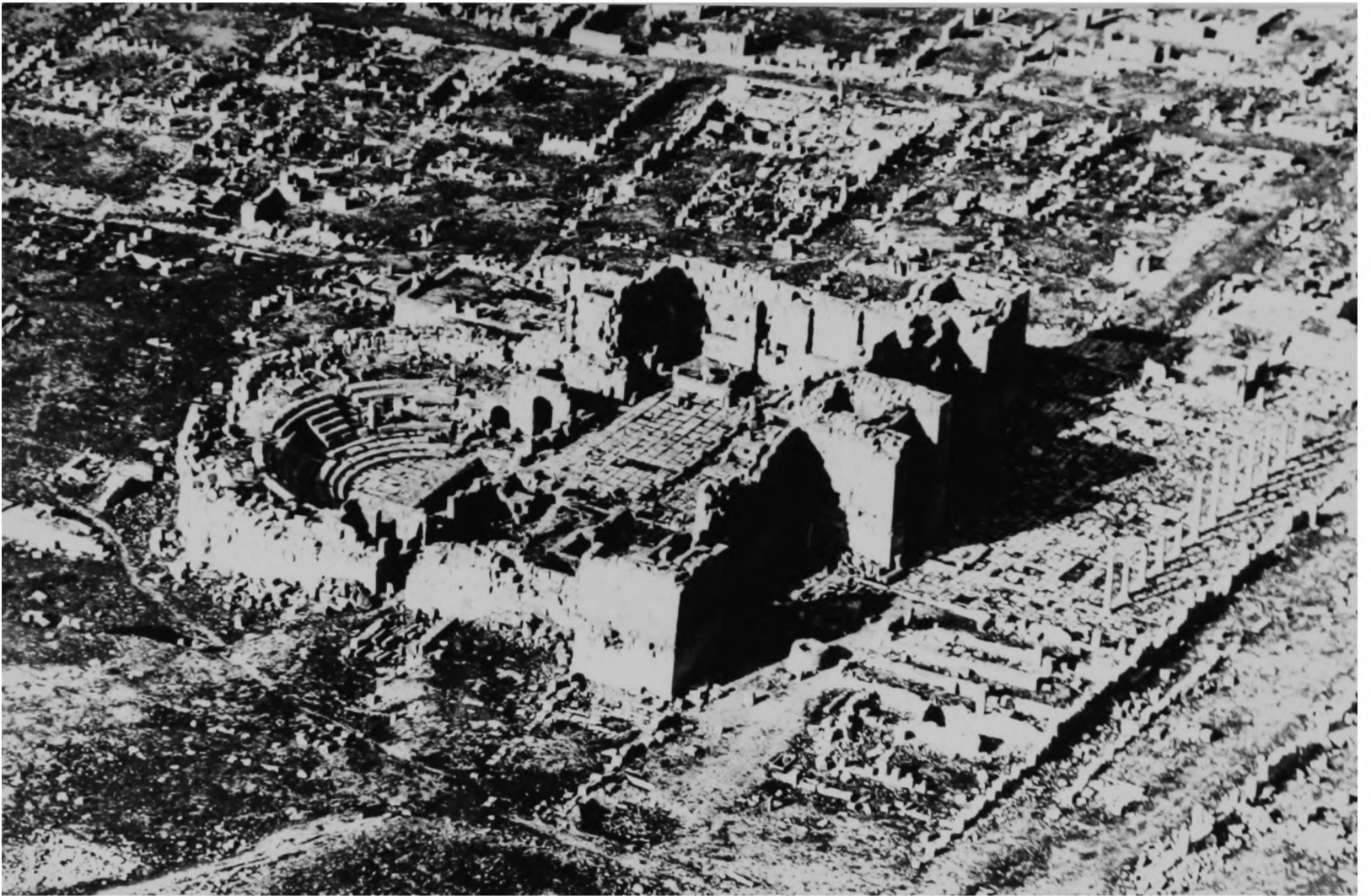


A.



B.

PLATE XXII.



A.



B.

PLATE XXIII.



A.



B.

A.



B.



PLATE XXV.



A.



B.

PLATE XXVI.



A.



B.

PLATE XXVII.



A.



B.

PLATE XXVIII.



A.



B.

PLATE XXIX.



A.



B.

A.



B.



PLATE XXXI.



A.



B.

PLATE XXXII.



A.



B.

PLATE XXXIII.



A.



B.

PLATE XXXIV.



A.



B.

A.



B.



PLATE XXXVI.



A.



B.

PLATE XXXVII.



A.



B.

A.



B.



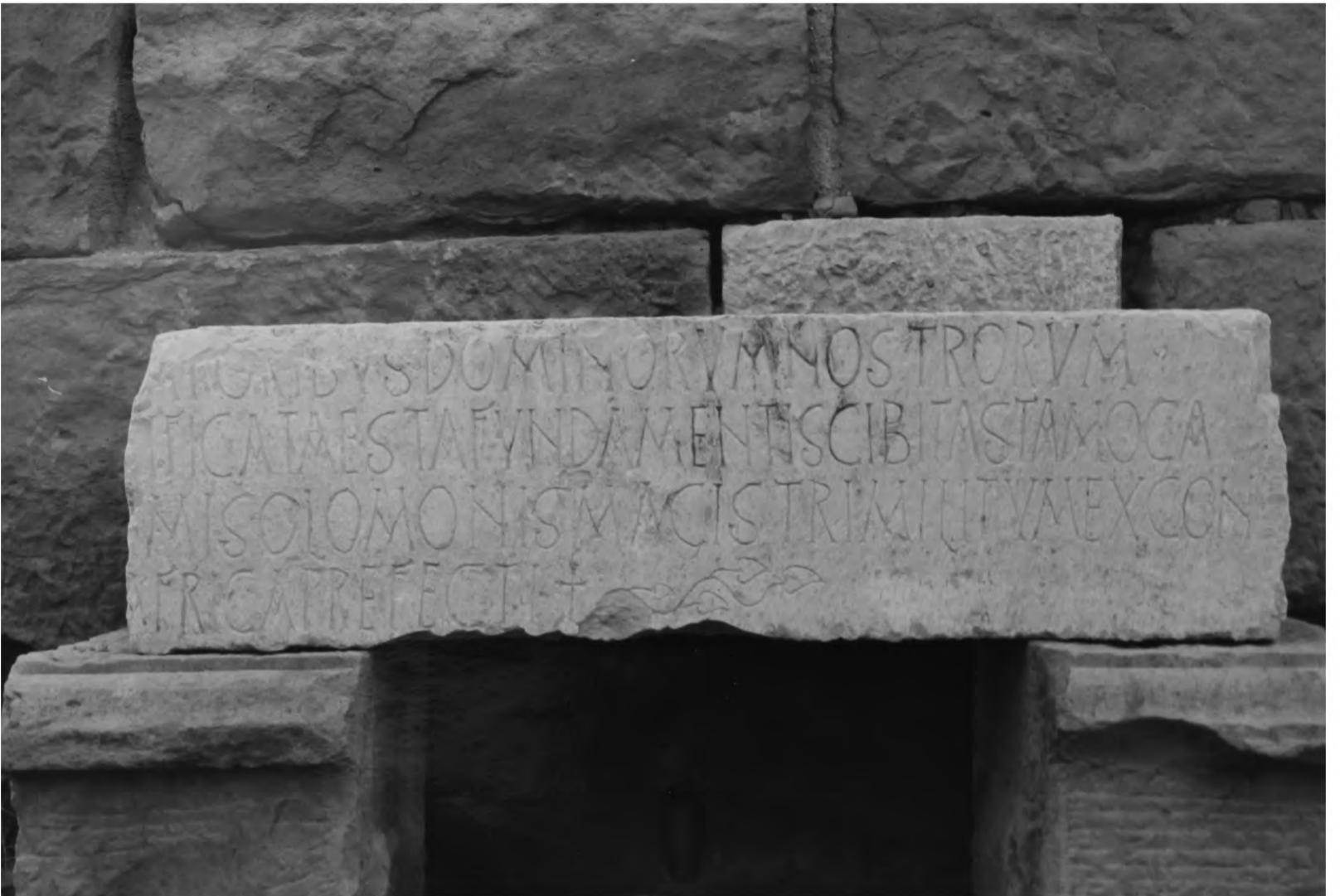
PLATE XXXIX.



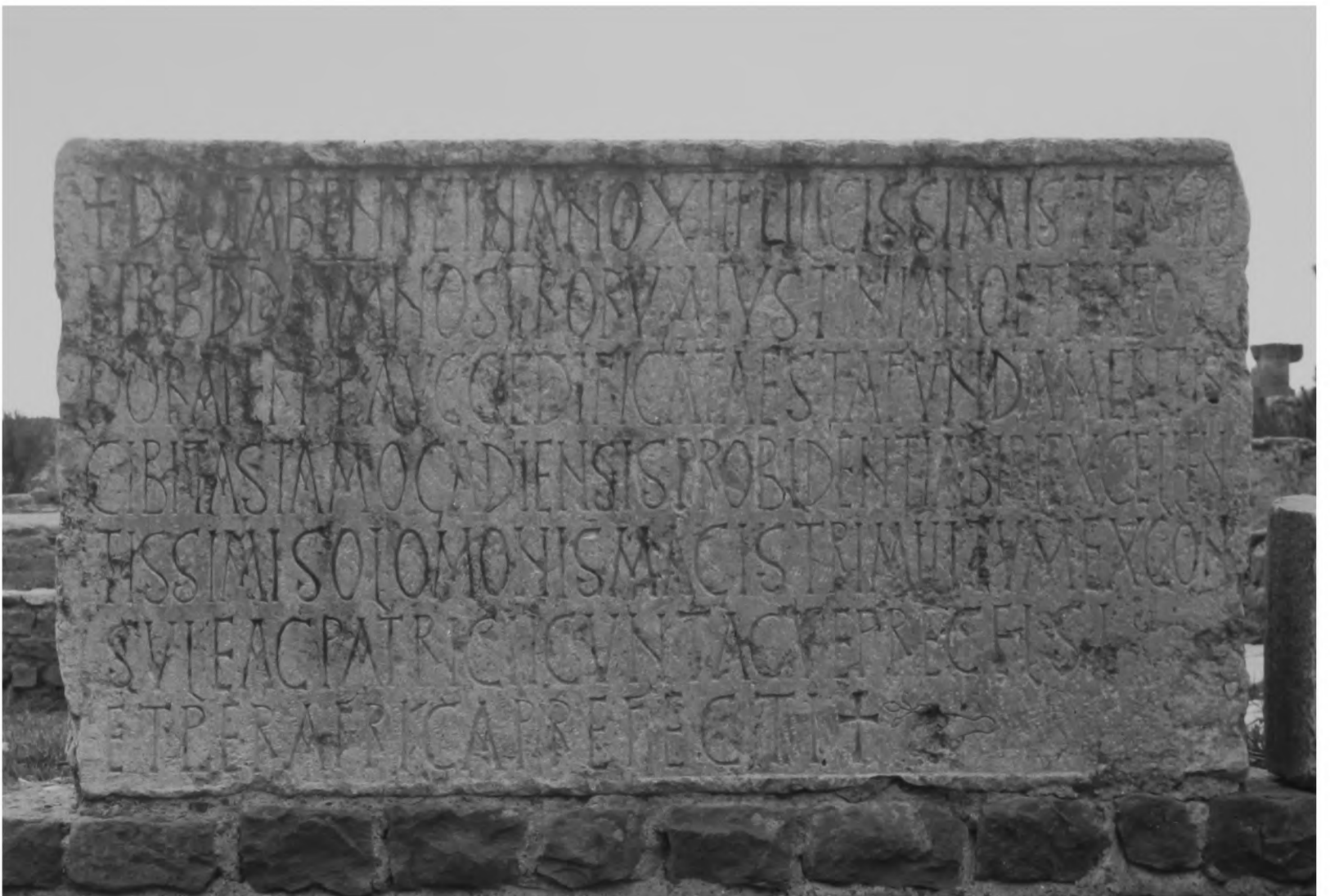
A.



B.



A.



B.

PLATE XLI.



A.



B.

PLATE XLII.



A.



B.

PLATE XLIII.

A.



B.



A.



B.





A.



B.

PLATE XLVI.



A.



B.

PLATE XLVII.



A.



B.



A.



B.

PLATE XLIX.



A.



B.

PLATE I.



A.



B.

A.



B.



PLATE LII.



A.



B.

PLATE LIII.



A.



B.

PLATE LIV.



A.



B.

PLATE LV.



A.



B.

PLATE LVI.



A.



B.

PLATE LVII.



A.

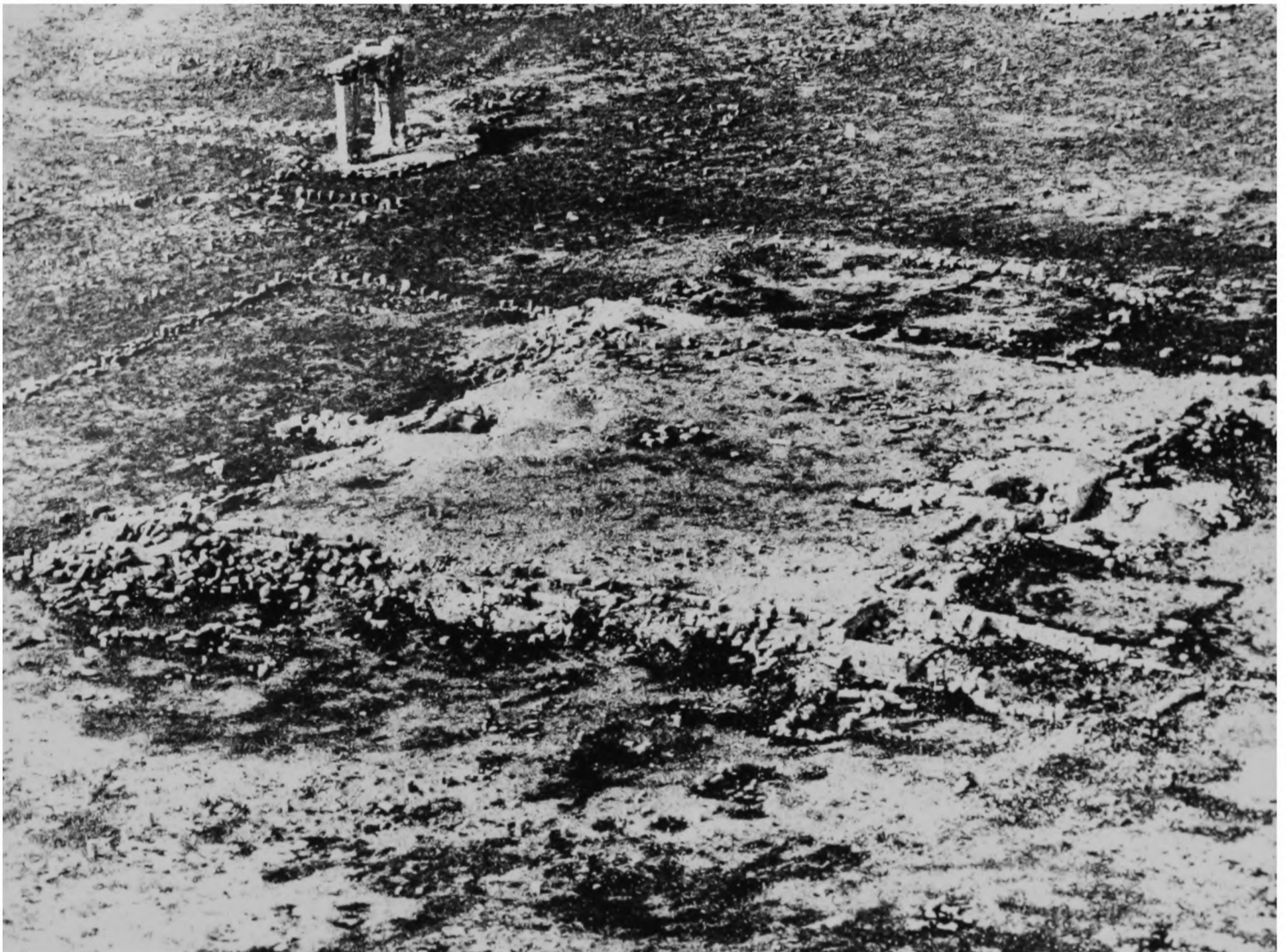


B.

PLATE LVIII.



A.



B.

PLATE LIX.



A.



B.

PLATE LX.



A.



B.

PLATE LXI.



A.



B.

PLATE LXII.



A.



B.

PLATE LXIII.



A.



B.

PLATE LXIV.



A.



B.

PLATE LXV.



A.



B.

PLATE LXVI.



A.



B.

PLATE LXVII.



A.



B.

PLATE LXVIII.



A.



B.

PLATE LXIX.



A.



B.

PLATE LXX.



A.

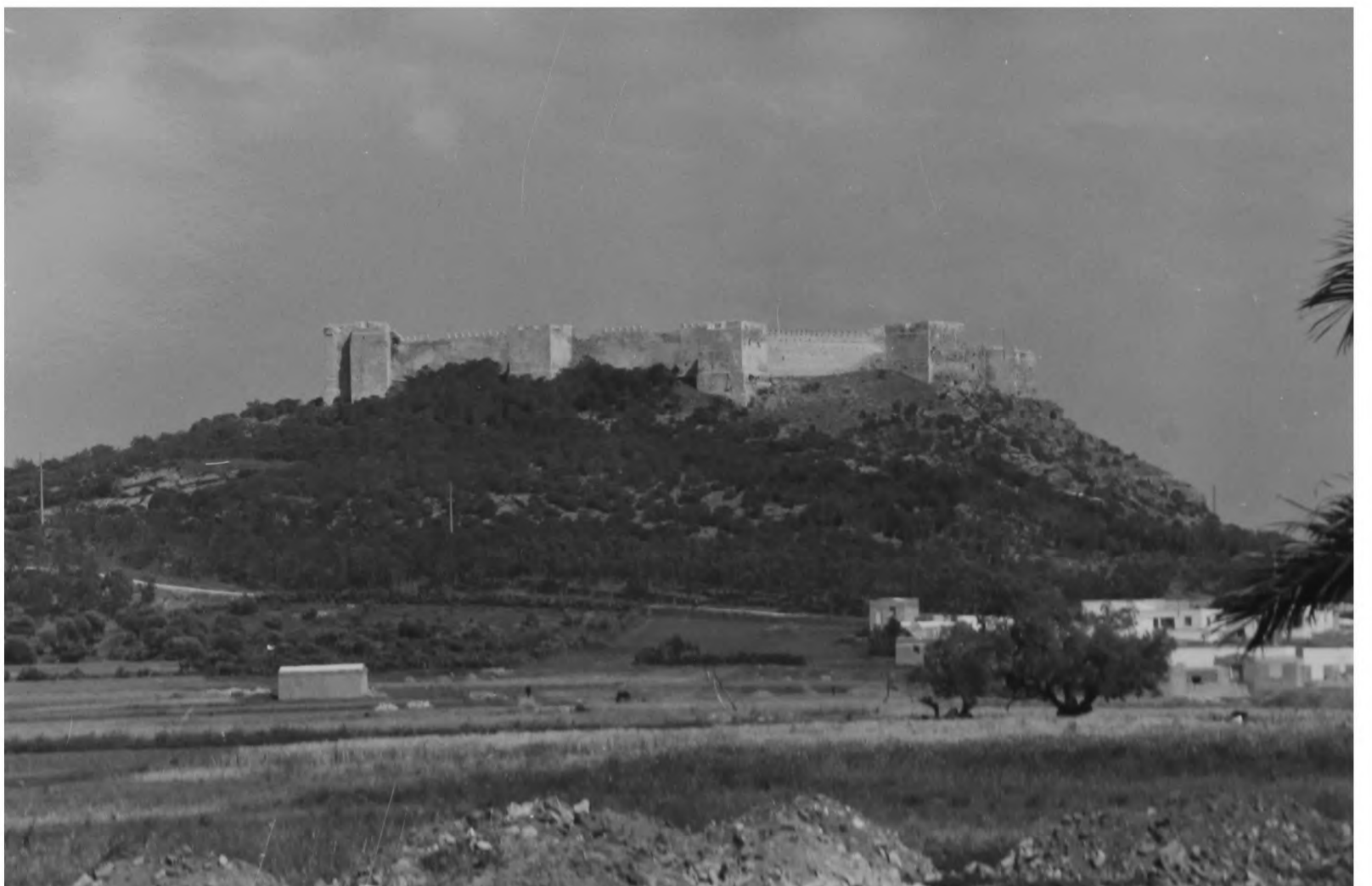


B.

PLATE LXXI.



A.



B.

PLATE LXXII.



A.



B.

PLATE LXXIII.



A.



B.



A.



B.





A.



B.

PLATE LXXVII.



A.



B.

