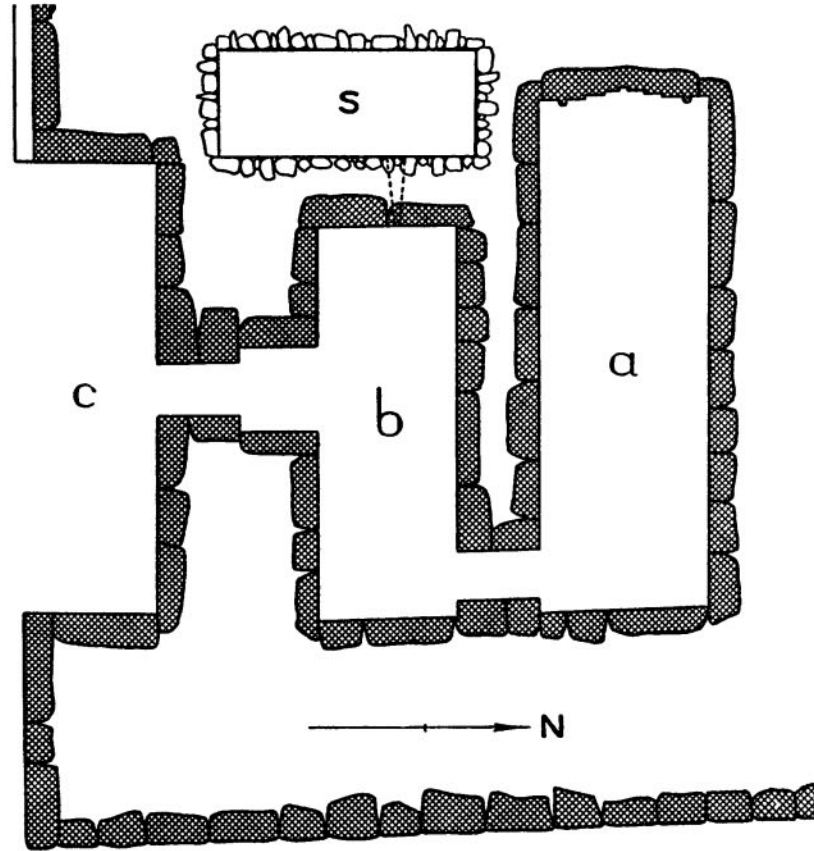


Chapel, E-W offering-room (a) and south of it an E-W room (b) with pillared portico in south façade:

- (a) 2.25×6.75 m.; area, 15.18 sq. m.; prop. 1/0.33; with elaborate false-door stela in west end; entered from south (from (b)) at east end of south wall.
 (b) 1.85×5.2 m.; area, 9.62 sq. m.; prop. 1/0.36; doorway to (a) at east end of north wall; entered from south at west end of south wall.



Plan 0 1 2 3 4 5 m.

Fig. 164. G 2378

(c) pillared portico; 1.8×5.59 m.; area, 10.06 sq. m.

Total floor area, 34.86 sq. m.; relation, 1/7.91.

N.B. The doorway between (a) and (b) has no jambs.

See Fig. 164.

(2) G 2374: Khnum-enti; built between SW corner of Mehi and north wall of Yenti.

Mastaba type VIII a; 4.1×18.5 m.; area, 75.85 sq. m.; prop 1/0.22.

Chapel consisting of E-W offering-room (a) connected by an E-W corridor (b) with a N-S room (c), which is entered from the east at south end of its east wall:

(a) 1.82×5.19 m.; area, 9.45 sq. m.; prop. 1/0.38; door to (b) in east end of south wall.

(b) connecting corridor, E-W with door to (a) in east end of north wall and door at east end into (c); 1.05×3.72 m.; area, 3.91.

(c) N-S room connected by (b) with (a); door at south end of west wall into (b); entrance at south end of east wall from great court; 3.15×1.8 m.; area, 5.67 sq. m.; prop. 1/1.75.

Total floor area, 19.03 sq. m.; relation 1/3.98.

Partly decorated.

Probably associated with sloping passage G 2385 A, with diorite bowl inscribed with name of Teti.

See Fig. 165.

- (3) G 2385: nearly destroyed; built against the north end of G 2384 and the east face of G 2378 (Mehi); on platform of complex with sloping passage G 2387 A entering on east.

Mastaba type VIII c, without shafts; whole area of mastaba taken by chapel and serdabs; 14.3×12.3 m.; area, 171.6 sq. m.; prop. 1/1.16.

Chapel, nucleus like that of Mehi, two E-W rooms connected by doorway; around this nucleus, six other rooms and two serdabs:

- (a) E-W offering-room with niche in west wall; 1.75×4.6 m.; area, 8.05 sq. m.; prop. 1/0.38; entered at east end of north wall from (b).

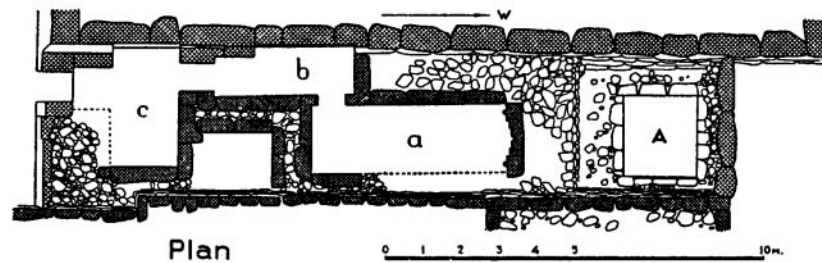


Fig. 165. G 2374

- (b) E-W room, with doorway to (a) at east end of north wall and entrance at west end of south wall from (c.)
- (c) N-S entrance corridor entered at south end from west; 5.0×1.9 m.; area, 9.5 sq. m.; with door to (b) at north end, and door to (d) at north end of east wall.
- (d) E-W corridor entered at west from (c); with doorway to (e) in east end of south wall and to (f) in east end of north wall; 1.7×5.2 m.; area, 8.84 sq. m.
- (e) E-W magazine south of (d); entered from (d) at east end of north wall; 1.75×5.25 m.; area, 9.19 sq. m.
- (f) long corridor connecting rooms (d) and (g), N-S, with doorway at each end; 3.7×1.8 m.; area, 6.66 sq. m.
- (g+h) one or two E-W rooms, north of nucleus room (a); entered from south (from (f)) by doorway at east end; taken as one long room; 1.75×10.7 m.; area, 18.73 sq. m.
- East face of G 2378 exposed in west end.

Total floor area, 69.63 sq. m.; relation, 1/2.46.

- (4) G 2175: Inezuw and Khnum-nefer; two offering-rooms.

Mastaba type VIII c; 7.9×6.65 m.; area, 52.53 sq. m.; prop. 1/1.04; built against north end of G 2172.

Chapel: entrance in east façade at south end; opens in the south end of a long N-S corridor (b), the north end of which opens in the east end of the south wall of an E-W offering-room with two niches in west end (room (a)); in the west wall of (b), just north of the outer doorway, a doorway opens westwards into a reduced example of type (7 b) consisting of a N-S room with two niches in west wall opening into an E-W room with wide stela in west end.

- (a) 0.95×2.35 m.; area, 2.23 sq. m.; decorated; prop. 1/0.4.
- (b) corr. 4.55×0.85 m.; area, 3.87 sq. m.; prop. 1/5.24.

(c) 2.15×0.9 m.; area, 1.94 sq. m.; prop. 1/2.39.

(d) 1.07×1.3 m.; area, 1.39 sq. m.; prop. 1/0.83.

Total floor area, 9.43 sq. m.; relation, 1/5.57.

(5) G 4811+4812.

Mastaba type VIII c; area, 228.23 sq. m.; a conglomeration of constructions composed of at least two mastabas.

Chapels: an exterior forecourt south of G 4813, on east of and belonging to G 4811 and having in its NW corner the chief burial-place of type 9; this court is entered by a doorway at west end of its south wall, which is approached by an E-W corridor which in turn is entered by a N-S corridor between G 4813 and G 4920. In the south of the middle of the west wall of the court a doorway opens westwards into a pillared hall (room (e)); in the west wall of this long N-S pillared hall opens an alcove (f) and an E-W offering-room (g); in the north wall of the hall (e), a doorway opens northwards into the chapel G 4812; room (c), a square room with doorway in its west wall opening into a N-S offering-room (d) and another in its north wall into the corridor (b); the N-S corridor (b) opens by a doorway in its north end into an E-W offering-room (a).

In room h (G 4811): broken stela in west end: Ptah-ir-ankh, *imy r3 w3bt, imy r3 hmwt pr 3, imy r3 k3t nt n3wt.*

- (a) E-W offering-room, N (G 4812), entered from (b) from south at east end; 1.62×4.15 m.; area, 6.72 sq. m.; prop. 1/0.39; with false-door stela in west end.
- (b) N-S corridor connecting (a) and (c); 7.8×1.0 m.; area, 7.8 sq. m.; prop. 1/7.8; no jambs at north end; jamb (probably jambs) at south end; niche in west wall near middle; serdab west of south end with slot.
- (c) E-W hall with one pillar; doorway to (b) at east end of north wall and another to (d) at north end of west wall; entered from south, from (e), by door near middle of south wall; 2.2×3.7 m.; 8.14 sq. m.; prop. 1/0.59; serdab parallel to north wall with slot opening in (b), and compound niches in its west wall.
- (d) N-S offering-room entered from (c) by doorway in south of middle of east wall; shallow false door in middle of west wall; 4.25×1.7 m.; area, 7.23 sq. m.; prop. 1/2.5.
- (e) pillared hall (N-S); five pillars remain but apparently originally six; the missing pillar was between the third and fourth now preserved, closer to the third so that the opening between the two middle pillars was smaller and directly opposite room (g); north and south of this opening were originally three pillars on each side; 9.4×3.0 m.; area, 28.2 sq. m.; prop. 1/3.13; entrance doorway from (i), at north end of east wall; in the north wall, doorway to (c); in west wall, deep recess at north end, doorway to (g) in middle, and doorway to (h) at south end; against west wall between (g) and (h) a block of c.b. masonry (to support wall and roof?).
- (f) deep recess (alcove) at north end of west wall of (e); 1.4×1.7 m.; area, 2.48 sq. m.; prop. 1/0.8; in west wall at south, a compound niche; behind the room a shaft.
- (g) E-W offering-room with entrance in west wall of (e), opposite middle; 1.05×1.85 m.; area, 1.94 sq. m.; prop. 1/0.56; with compound niche in west end.
- (h) E-W offering-room, entered from (e) at south end of west wall; 1.6×1.7 m.; area, 2.72 sq. m.; prop. 1/0.94; stela in west end; serdab on south with slot in east end of south wall.

- (i) great open court east of G 4811; entrance from (l) at west end of south wall; outer portico (m) makes a re-entrant angle in SE corner; chief burial-place, type 9, in NW corner; 10.0×5.95 m.; area, $59.5 - 1.32$ sq. m., 58.18 sq. m.
- (j) N-S corridor opening in west end of south wall of (l), and leading southwards to room (k); no jambs; 2.85×0.7 m.; area, 2.0 sq. m.; door to (k) opens to west in south end without jambs.
- (k) N-S offering-room; entered at north end of east wall without jambs; 2.7×1.0 m.; area, 2.7 sq. m.; prop. $1/2.7$; compound niche in west wall just south of middle; serdab west of west wall.
- (l) E-W hall with entrance in north end of east wall, from (m); at west end doorway northwards to (i) and another southwards to (j); 1.7×4.7 m.; area, 7.99 sq. m.
- (m) embrasure portico near south end of east façade of court (i); 3.85×1.65 m.; area, 6.25 sq. m.; pillars not preserved; doorway in middle of west wall opens to hall (l).
- Total area, rooms (a)-(h), 65.23 sq. m.
 Total area, rooms (a)-(h), (j), (k), 69.93 sq. m.
 Area of (i), (l), and (m), 69.13 sq. m.
 Sum total of rooms (a)-(m), 139.06 sq. m.; relation, $1/1.64$.

Another example of this type of chapel is presented by MM D 62 (Ptah-hotep):

- (i) Saqqarah, MM D 62: Ptah-hotep (I?).

Mastaba type VIII a (?); 19.2×19.6 m.; 376.32 sq. m.; prop. $1/0.98$.

Chapel: entered from east; there is a cruciform nucleus of three rooms symmetrically placed on the medial E-W axis, but with three other rooms, of which two lettered (a) and (b) form a secondary nucleus of type (7 b) (see cruciform chapels).

- (a) E-W offering-room, south of rooms (c) and (d), of cruciform nucleus entered at east end of north wall from (c); with second door opposite in east end of south wall leading to (f); stela in west wall; 2.65×6.4 m.; area, 16.96 sq. m.; prop. $1/0.41$.
- (b) N-S room, forming the northern room of the nucleus of type (7 b); axis lies east of east end of (a); entered from south from room (c); 6.4×1.95 m.; area, 12.48 sq. m.; prop. $1/3.29$.
- Total area of (a) and (b), 29.44 sq. m.
- (c) E-W vestibule in E-W medial axis, with four doors: in east end entrance from (e); in west end door to (d); at west end of south wall door to (a); at east end of north wall, doorway to (b); 1.6×2.6 m.; area, 4.16 sq. m.
- (d) small E-W room (without niche) at west end of cruciform nucleus perhaps intended for statue; entered from east from (c); 1.65×2.1 m.; area, 3.36 sq. m.; prop. $1/0.76$.
- (e) pillared hall, with three N-S rows of four pillars each; entered from east by door in middle, leads to (c) on north and south; long serdab in thickness of wall; 11.55×8.1 m.; area, 93.56 sq. m.; prop. $1/0.3$.
- Total area of (c), (d), (e), cruciform nucleus, 101.21 sq. m.
- (f) E-W room south of (a) and connected with it by doorway at east end of south wall; serdab slot in east end; 1.1×3.6 m.; area, 3.96 sq. m.
- Sum total of floor area, 134.48 sq. m.; relation, $1/2.81$.
- Prop. of chapel area to mastaba area, $1/2.79$.

(e) *Interior mastaba chapels, type (7 e): complex of rooms based on a cruciform nucleus with E-W offering-room.*

(i) LG 53-54: Seshem-nofer and Hetep-heres; at east end of Cem. G I S.

Mastaba type VIII a; 23.18×12.65 m.; area, 293.23 sq. m.; prop. 1/1.83.

Chapel: two chapels with doorway in east façade; the south chapel consists of four rooms (a)-(d) the nucleus of which (a), (b) is cruciform with two rooms on north, of which (c) is a N-S room and (d) an E-W offering-room; the north chapel is of type (5 c) containing room (e).

(a) E-W offering-room, with wide stela in west end; opening from middle of (b); 2.11×4.06 m.; area, 8.57 sq. m.; prop. 1/0.52.

(b) N-S room from the middle of which opens (a); entered by doorway at north end, from (c); 6.55×2.11 m.; area, 13.82 sq. m.; prop. 1/3.1.

(c) N-S room with doorway at south end to (b); doorway at north end of west wall to (d); entrance at north end of east wall; 3.11×1.78 m.; area, 5.53 sq. m.; prop. 1/1.75.

(d) E-W offering-room without (?) niche in west end; entered at east; 1.52×3.25 m.; area, 4.94 sq. m.; prop. 1/0.46.

(e) north chapel of type (5 c), with entrance at north end of east wall; corr. 4.14×1.24 m.; area, 5.13 sq. m.; prop. 1/3.35; alcove, 1.11×0.58 m.; area, 0.64.

Total area of (e), 5.77 sq. m.

Total area of (a)-(d), 32.86 sq. m.

Sum total (a)-(e), 38.63 sq. m.; relation, 1/7.59.

The last example of this type is probably in the mastaba of Akhet-hetep and his son Ptah-hotep at Saqqarah:

(i) Saqqarah, MM D 64: Akhet-hetep and Ptah-hotep.

Mastaba type VIII a (?); 25.6×25.6 m.; area, 675.36 sq. m.; prop. 1/1.0.

Chapel: original chapel consists of rooms (a)-(g) of which the nucleus consists of rooms (a)-(c), asymmetrically arranged on the E-W medial axis, and approached from the north by hall (d) and portico (e); north of this nucleus lie the two subsidiary chambers (f) and (g); east and south other chambers have been added for the son, Ptah-hotep.

(a) E-W offering-room with stela in west end opening directly from west side of (b) without door-jamb; 2.46×4.27 m.; area, 10.6 sq. m.; prop. 1/0.58.

(b) N-S room with (a) opening in middle of west wall; entered by doorway in medial axis from pillared hall (c); 6.61×1.66 m.; area, 10.97 sq. m.; prop. 1/3.98; with connecting passage to (f) in north end.

Total floor area of (a) and (b), 21.57 sq. m.

(c) pillared hall, with four pillars in two rows of two pillars each; entered from hall (d) by doorway in middle of east wall; doorway to (b) in middle of west wall; doorway to rooms of Ptah-hotep at east end of south wall; doorway to (f) near middle of north wall; 8.36×6.32 m.; area, 52.83 sq. m.; prop. 1/1.32.

(d) N-S hall connecting (c) with portico (e); doorway to (c) in south end of west wall; doorway to portico (e) in north end; in south end is a large recess probably once containing a statue facing the entrance; in the north end of west wall, a passage opens leading to (f)-(g); in the south of east wall opens the doorway to (j) and other subsidiary rooms (Ptah-hotep); 6.78×2.13 m.; area, 14.44 sq. m.

(e) embrasure with E-W portico; doorway in middle leads to hall (d); 2.4×5.87 m.; area, 14.09 sq. m.

Total area of (a)–(e), 102.93 sq. m.

(f) E-W corridor connecting (g) with hall (d); entered by long narrow passage from east from (d) at east end of south wall, doorway to pillared hall (c); at west end of south wall doorway to (b); in west end doorway to (g); 1.9×7.05 m.; area, 13.4 sq. m.

(g) N-S room entered from west end of (f) by doorway in north end of east wall; no niches; 4.75×1.56 m.; area, 7.41 sq. m.; prop. 1/3.05.

Total area, rooms (a)–(g), 123.74 sq. m.

Prop. of chapel (a)–(g) to mastaba, 1/5.46.

Of the later rooms, (h) and (i) have a particular interest:

(h) anteroom, entered by doorway in east end of south wall of the pillared portico; with statue recess in west wall; doorway to (i) in south wall, another doorway in east wall; 1.83×1.22 m.; area, 2.23 sq. m.

(i) N-S offering-room with two niches in west wall; large niche on south with offering-stone (*htp*); north niche with palace-façade panelling; 5.28×2.18 m.; area, 11.51 sq. m.; prop. 1/2.42.

Total area, (a)–(i), 137.48 sq. m.; relation, 1/4.91.

Cf. also MM D 62, listed as type (7 d).

(4) *Exterior Mastaba Chapels of Type (8)*

The roofed exterior chapel was introduced about the time of Khasekhemuwy (end of Dyn. II), and was largely used in the great c.b. mastabas of Dyn. III and down to the reign of Cheops. These older roofed exterior chapels had two chief forms, a multi-roomed chapel attached to the chief offering-place or a corridor chapel covering the façade of the mastaba. The corridor type had a two-roomed variation in which the southern or chief niche was enclosed by a separate room which often projected eastwards. The southern room was often fitted into the open space left at the south end of the mastaba in front. The corridor chapel was a type practically forced into use by the crowding of mastabas in a great cemetery.

When the nucleus mastabas were finished at Giza, the roofed exterior chapel was the form generally adopted, either the c.b. chapel of type (1) or the stone chapel of type (2). Both these types were attached to the south or chief offering-place. The exterior chapel attached at one of the two niches of a mastaba continued in use (see type (8 f–g) below), but only for really large mastabas. The exterior corridor chapel was never used for any of the nucleus finished mastabas in the Cems. G 1200, G 2100, G 4000, or G 7000. The corridor chapel, both interior and exterior, was, however, the prevailing type in the later mastabas between and around the nucleus cemeteries. In these crowded areas the same conditions obtained which led to the introduction of the older corridor chapels of Dyn. III, and even the two-roomed corridor chapel with room around the chief niche arose again in the exterior corridors at Giza which have an alcove projecting eastwards. It is therefore possible that the roofed exterior corridor at Giza originated independently of the older chapels of this form. Nevertheless, the similarity of the two forms is to be remembered.

Thus the roofed exterior chapels of type (8), dated generally to the period from the end of Dyn. IV to Dyn. VI, present two distinct forms, the chapel attached to the chief niche, and the corridor chapel covering the façade of the mastaba. Chapels attached to the chief niche, type (8 f–g), are related to the

older chapels of type (1). The corridor chapels, type (8 a-d), are connected in form and in time with the interior chapels of type (5).

The variations of the roofed exterior corridor chapels which are added to the eastern façade of the mastabas are based on the variations of the niches of the mastabas themselves and are as follows:

Type (8 a): added to mastabas with the ordinary two-niched façade.

Type (8 b): added to mastabas with two or more pairs of niches in the east face.

Type (8 c): added to mastabas with abnormal niche-work (one, three, or more niches, or with niches irregularly placed); abnormality often due to bad preservation of façade.

Type (8 d): added to mastabas without niches or with no niches preserved.

In addition to these variations, a number of these exterior chapels have an alcove projecting eastwards at the southern end (around the chief niche or the chief pair of niches), and to mark this feature an x is appended to the type designation as enumerated above; for example, type (8 a) with an east alcove becomes (8 ax), &c.

To these four variations of the corridor chapel of type (8) are added three others, of which one is a multi-roomed chapel covering the whole façade of the mastaba and the other two are chapels of one or more rooms built around the chief niche of the mastaba:

Type (8 e): exterior roofed chapel of more than one room covering the façade of the mastaba.

Type (8 f): exterior chapel of more than one room covering the chief niche of the mastaba.

Type (8 g): one-room exterior chapel built around the chief niche of the mastaba.

The chapel of type (8 f) is clearly a degeneration of chapel type (1) and is represented by only a few examples, usually of c.b. The chapel of type (8 g) is similar to the one-room chapel of type (1 d).

The following list gives the examples of types (8 a)–(8 g):

(a) *Chapels of type (8 a) covering the façade of ordinary two-niched mastabas.*

- (1) G 1054: mastaba type IX c (1); area, 33·62 sq. m.; 2 shafts.
Chapel, (5 a); 2·2 × 0·65 m.; area, 1·43 sq. m.; prop. 1/3·39.
Relation of chapel floor to mastaba area, 1/23·51.
- (2) G 1408–1409: mastaba type IX c on X e (2); area, 33·3 sq. m.; 6 shafts.
Chapel, (8 a); 3·3 × 1·5 m.; area, 4·85 sq. m.; prop. 1/2·2.
Relation of chapel to mastaba, 1/6·66.
- (3) G 1301: mastaba, IX c (2); area, 28·05 sq. m.; 4 shafts.
Chapel, (8 a); 6·75 × 0·65 m.; area, 4·38 sq. m.; prop. 1/10·4.
Relation of chapel to mastaba, 6·40.
- (4) G 1025 b: mastaba, IX c (1); area, 26·95 sq. m.; 5 shafts.
Chapel, (8 a); 5·6 × 0·75 m.; area, 4·2 sq. m.; prop. 1/7·47.
Relation of chapel to mastaba, 1/6·42.
- (5) G 3041: mastaba type IX c (1); area, 25·08 sq. m.; 4 shafts.
Chapel, (8 a); 6·1 × 1·0 m.; area, 6·1 sq. m.; prop. 1/6·1.
Relation of chapel to mastaba, 1/4·11.
- (6) G 1362: mastaba, IX c (1); area, 23·7 sq. m.; 3 shafts.
Chapel, (8 a); 5·25 × 0·65 m.; area, 3·41 sq. m.; prop. 1/8·08.
Relation of chapel to mastaba, 1/6·95.
- (7) G 3074: mastaba, IX c on X e (1); area, 19·25 sq. m.; 6 shafts.

- Chapel, (8 a); 3.9×1.1 m.; area, 4.29 sq. m.; prop. $1/3.55$.
Relation of chapel to mastaba, $1/4.49$.
- (8) G 1676: mastaba, IX c on X e (3); area, 18.95 sq. m.; 2 shafts.
Chapel, (8 a); 3.0×0.95 m.; area, 2.85 sq. m.; prop. $1/3.16$.
Relation of chapel to mastaba, $1/6.65$.
See Fig. 166.
- (9) G 1302: mastaba, IX c (1); area, 18.0 sq. m.; 6 shafts.
Chapel, (8 a); 5.3×1.0 m.; area, 5.3 sq. m.; prop. $1/5.3$.
Relation of chapel to mastaba, $1/3.9$.
- (10) G 1040: mastaba, IX c (1); area, 14.6 sq. m.; 1 shaft.
Chapel, (8 a); 4.6×0.85 m.; area, 3.91 sq. m.; prop. $1/5.41$.
Relation of chapel to mastaba, $1/3.99$.
- (11) G 1037: mastaba, IX e (2); area, 33.3 sq. m.; 6 shafts.
Chapel, (8 a of c.b.); 4.85×0.8 m.; area, 3.88 sq. m.; prop. $1/6.06$.
Relation of chapel to mastaba, $1/8.58$.
- (12) G 3084: mastaba, IX e (2); area, 29.75 sq. m.; 3 shafts.
Chapel, (8 a); 6.4×1.2 m.; area, 7.68 sq. m.; prop. $1/5.33$.
Relation of chapel to mastaba, $1/3.72$.
- (13) S. H., Fig. 177: mastaba, IX c; area, 18.8 sq. m.; 2 shafts.
Chapel, (8 a); 3.78×0.68 m.; area, 2.57 sq. m.; prop. $1/5.56$.
Relation of chapel to mastaba, $1/7.32$.
- (14) G 3096: mastaba, IX e (1); area, 17.2 sq. m.; 4 shafts.
Chapel, (8 a); $3.2 \times (1.5-1.0)$ m.; area, 4.15 sq. m.; $1/2.46$.
Relation of chapel to mastaba, $1/4.14$.
- (15) G 1104: mastaba, IX e (2); area, 12.4 sq. m.; 2 shafts.
Chapel, (8 a); 2.5×1.1 m.; area, 2.75 sq. m.; prop. $1/2.27$.
Relation of chapel to mastaba, $1/4.51$.
- (16) G 1402: mastaba, IX e (2); area, 12.0 sq. m.; 2 shafts.
Chapel, (8 a); 3.55×0.9 m.; area, 3.19 sq. m.; prop. $1/3.94$.
Relation of chapel to mastaba, $1/3.76$.
- (17) G 1105: mastaba, IX e (2); area, 12.0 sq. m.; 4 shafts.
Chapel, (8 a); 2.9×1.1 m.; area, 3.91 sq. m.; prop. $1/2.64$.
Relation of chapel to mastaba, $1/3.03$.
- (18) G 1675: mastaba, IX c (1); area, 10.45 sq. m.; 2 shafts.
Chapel, (8 a); 4.0×1.05 m.; area, 4.2 sq. m.; prop. $1/3.81$.
Relation of chapel to mastaba, $1/2.49$.
- (19) G 1123: mastaba, IX d (1); area, 8.75 sq. m.; 2 shafts.
Chapel, (8 a); 3.35×0.7 m.; area, 2.76 sq. m.; prop. $1/4.38$.
Relation of chapel to mastaba, $1/3.17$.
- (20) G 1079: mastaba, IX d (1); area, 8.0 sq. m.; 2 shafts.
Chapel, (8 a); 3.0×0.75 m.; area, 2.25 sq. m.; prop. $1/4.0$.
Relation of chapel to mastaba, $1/3.55$.
- (21) G 1689: mastaba, IX c (1); area, 6.05 sq. m.; 2 shafts.
Chapel, (8 a); 2.7×0.85 m.; area, 2.29 sq. m.; prop. $1/3.18$.
Relation of chapel to mastaba, $1/2.64$.

An anomalous chapel has the alcove separated from the corridor with a separate doorway to each of the two rooms:

(22) G 3092: mastaba, IX e (2); area, 82.95 sq. m.; 3 shafts.

Chapel, (8 ax); two rooms: (a) square room around south niche with doorway into exterior corridor; (b) corridor around north niche with doorway into exterior corridor.

(a) 2.2 × 3.0 m.; area, 6.6 sq. m.; prop. 1/0.73.

(b) 4.0 × 1.2 m.; area, 4.8 sq. m.; prop. 1/3.33.

Total area, 11.4.

Relation of chapel to mastaba, 1/7.28.

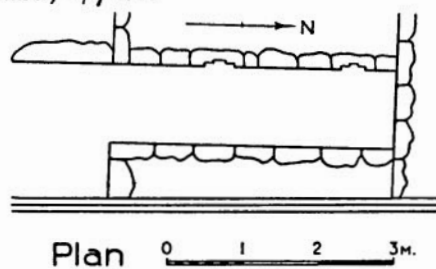


Fig. 166. G 1676

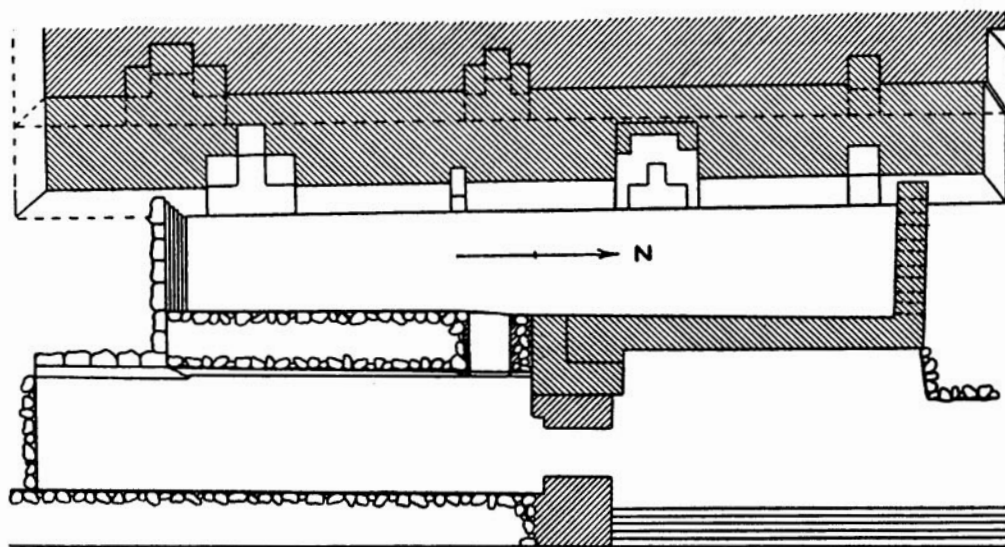


Fig. 167. G 1406

(b) *Exterior chapels of type (8 b) with two or more pairs of niches.*

(1) G 1406: mastaba, IX e (3); area, 97.0 sq. m.; 2 shafts.

Chapel, (8 b) + ext. corr.; 9.3 × 1.3 m.; area, 12.0 sq. m.; prop. 1/7.15.

Relation of chapel to mastaba, 1/8.08.

See Fig. 167.

(2) G 1161: mastaba, IX e (2); area, 53.81 sq. m.; 5 shafts.

Chapel, (8 b) orig.; 5.45 × 0.55 m.; area, 2.99 sq. m.; prop. 1/9.91.

Relation, 1/17.99.

(3) G 1673: mastaba, IX c (1); area, 44.52 sq. m.; 13 shafts.

Chapel, (8 b); 10.95 × 0.8 m.; area, 8.76 sq. m.; prop. 1/13.69.

Relation, 1/5.08.

- (4) G 1039: mastaba, IX c (2); area, 38.28 sq. m.; 5 shafts.
Chapel, (8 a); 6.5 × 0.65 m.; area, 4.22 sq. m.; prop. 1/10.
Relation, 1/9.08.
- (5) G 3097: mastaba, IX e (1) (composite); area, 32.7 sq. m.; 6 shafts.
Chapel, (8 b); 6.1 × 1.0 m.; area, 6.1 sq. m.; prop. 1/6.1.
Relation, 1/5.36.
- (6) G 1162 + 1172: mastaba, IX e (2); area, 29.0 sq. m.; 4 shafts.
Chapel, (8 b); 2.85 × 0.45 m.; area, 1.28 sq. m.; prop. 1/6.33.
Relation, 1/22.66.
- (7) G 3094: mastaba, IX e (1); area, 28.1 sq. m.; 4 shafts.
Chapel, (8 b); 8.7 × 0.8 m.; area, 6.96 sq. m.; prop. 1/10.87.
Relation, 1/4.04.
- (8) G 3088: mastaba, IX e (1); area, 25.24 sq. m.; 4 shafts.
Chapel, (8 b); 5.8 × 1.6 m.; area, 9.28 sq. m.; prop. 1/3.63.
Relation, 1/2.72.
- (9) G 3083: mastaba, IX e (3) + d (1); area, 17.91 sq. m.; 4 shafts.
Chapels, (8 a); and abnormal south room; corr. 7.5 × 0.85–1.2 m.; area, 8.16 sq. m.; prop. 1/6.88; total area, 10.89.
Relation, 1/1.64.
- (10) G 3024: mastaba, IX e (3); area, 14.94 sq. m.; 2 shafts.
Chapel, (8 b); 5.2 × 0.6 m.; area, 3.1 sq. m.; prop. 1/8.66.
Relation, 1/4.82.
- (11) G 3081: mastaba, IX e (3); area, 13.23 sq. m.; 5 shafts.
Chapel, (8 b) + vest.; 4.9 × 0.95 m.; area, 4.65 sq. m.; prop. 1/8.66.
Relation, 1/2.82.
- (12) G 1068: mastaba, IX d (1); area, 12.79 sq. m.; 2 shafts.
Chapel, (8 b); 3.2 × 1.1 m.; area, 3.52 sq. m.; prop. 1/2.91.
Relation, 1/3.65.
- (13) G 3098 a: mastaba, IX e (1); area, 11.5 sq. m.; 1 shaft.
Chapel, (8 b); 4.3 × 1.0 m.; area, 4.3 sq. m.; prop. 1/4.3.
- (14) G 3010: mastaba, IX c (1); area, 26.08 sq. m.; 4 shafts.
Chapel, (8 bx); two pair of niches (?) and east alcove.
Corridor, 7.4 × 0.7 m.; area, 5.18 sq. m.; prop. 1/1.05.
East alcove, 1.9 × 0.75 m.; area, 1.42 sq. m.
Total area, 6.6 sq. m.
Relation, 1/3.95.
See Fig. 168.
- (15) G 3086: mastaba, IX e (1); area, 13.6 sq. m.; 4 shafts.
Chapel, (8 bx); with vestibule corridor; three pairs of niches (?); with east alcove.
Corridor, 3.8 × 0.66 m.; area, 2.5 sq. m.; prop. 1/5.76.
East alcove, 2.0 × 2.2 m.; area, 4.4 sq. m.
Total area, 6.9 sq. m.; E–W corridor on north; on north open corridor with serdab; total area roofed, 8.9.
Relation, 1/1.53.

(c) *Exterior chapels of type (8 c) with abnormal niche-work.*

(1) G 3085: mastaba, IX c (1); area, 41.38 sq. m.; 4 shafts.

Chapel, (8 c); with three niches; north stela in recess and a pair.

Corridor, 7.6 × 0.8 m.; area, 6.0 sq. m.; prop. 1/9.5.

North recess, 1.3 × 1.3 m.; area, 1.69 sq. m.

Total area, 7.69 sq. m.; relation, 1/5.38.

See Fig. 169.

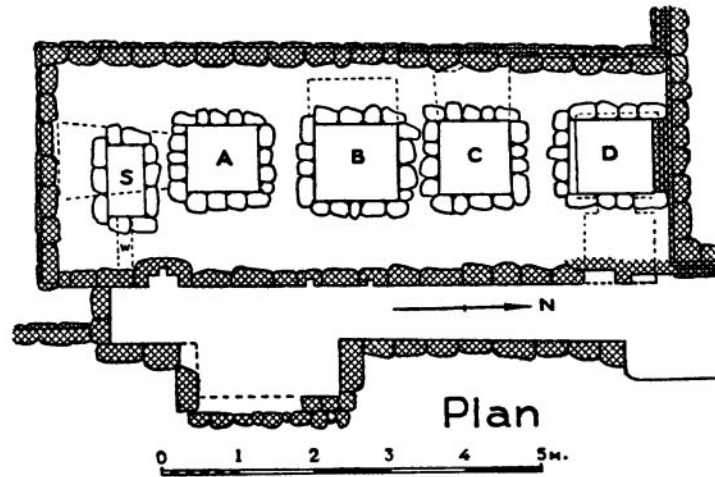


Fig. 168. G 3010

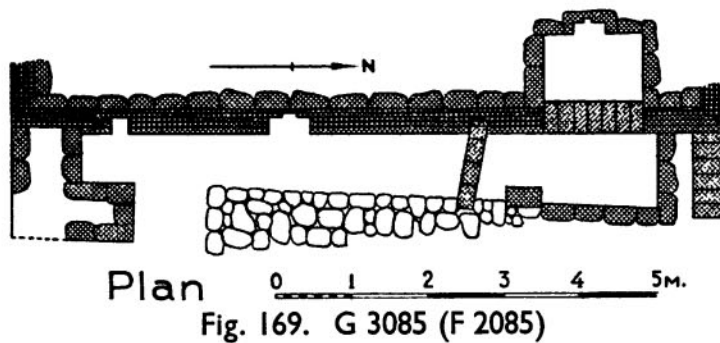


Fig. 169. G 3085 (F 2085)

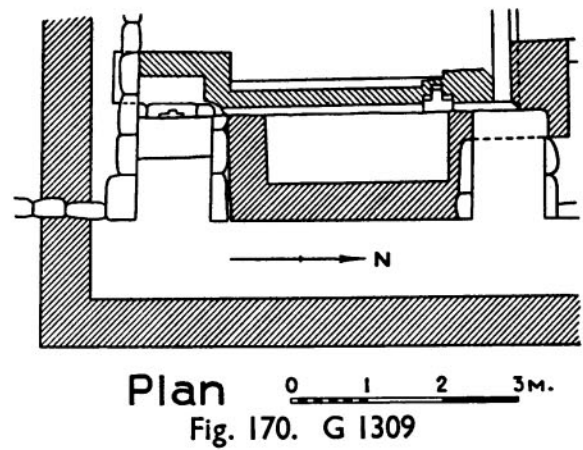


Fig. 170. G 1309

(2) G 1308: mastaba, IX e (1); area, 38.19 sq. m.; 6 shafts.

Chapel, (8 c); deep south recess and three niches.

Corridor, 6.45 × 1.05 m.; area, 6.77 sq. m.; prop. 1/6.14.

Total area, 8.10 sq. m.; relation, 1/4.71.

(3) G 1304: mastaba, IX e (1); area, 38.19 sq. m.; 7 shafts.

Chapel, two pairs and extra stone niche on north; 6.0 × 1.0 m.; area, 6.0 sq. m.; prop. 1/6.0.

Relation, 1/6.36.

(4) G 1309: mastaba, IX e (1); area, 35.28 sq. m.; 2 shafts.

Chapel, stela in deep recess on south; no other niches.

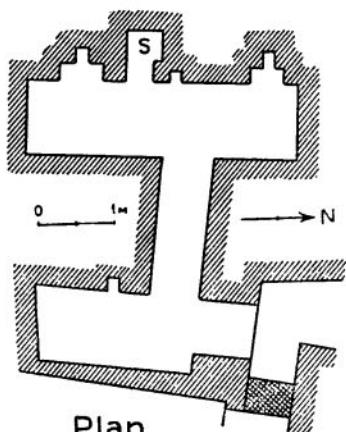
Corridor, 5.05 × 1.0 m.; area, 5.05 sq. m.; prop. 1/5.05.

Recess, 1.0 × 1.35 m.; area, 1.35 sq. m.

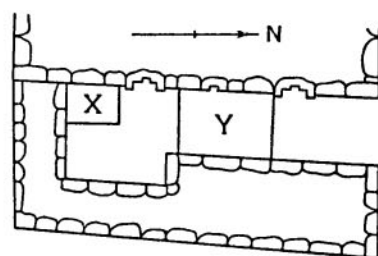
Total area, 6.4 sq. m.; relation, 1/5.51.

See Fig. 170.

- (5) G 1363: mastaba, IX c (1); area, 21.9 sq. m.; 4 shafts.
 Chapel, (8); with monolithic stela in middle of west wall; 6.35×0.65 m.; area, 4.12 sq. m.;
 prop. 1/9.76.
 Relation, 1/5.31.
- (6) G 3013-3014: composite mastaba, type IX c (1); area, 19.82 sq. m.; 4 shafts.
 Chapel, (8 c); one stela torn out at south end; 7.4×0.6 m.; area, 4.44 sq. m.; prop. 1/12.33.
 Relation, 1/4.46.
- (7) G 3044: mastaba, IX e (1); area, 18 (?) sq. m.; shafts unexcavated.
 Chapel, (8 c); of irregular width; compound on south and two simple niches; $5.25 \times (1.8-1.6)$ m.;
 area, 9.31 sq. m.; prop. 1/3.09.
 Relation, 1/1.93.



Plan
 Fig. 171. G 3003 (Fisher)



Plan 0 1 2 3m.
 Fig. 172. G 1121

- (8) G 3003: mastaba, IX e (1); area, 16.96 sq. m.; 2 shafts.
 Chapel, (8 c); three niches and serdab, with roofed vestibule corridor; 3.6×0.95 m.; area,
 3.42 sq. m.; prop. 1/3.78.
 Relation, 1/4.96.
 See Fig. 171.
- (9) G 1108: mastaba, IX d (3); area, 12.87 sq. m.; 3 shafts.
 Chapel, (8 c); three niches, two compound and one simple; 4.6×1.5 m.; area, 5.06 sq. m.;
 prop. 1/3.07.
 Relation, 1/2.54.
 Chapel of type (8 cx):
 Examples with east alcove on south:
- (10) G 1121: mastaba, IX c (1); area, 15.51 sq. m.; 2 shafts.
 Chapel, type (8 cx); corridor with east alcove.
 Corridor, 2.8×0.86 m.; area, 2.41 sq. m.; prop. 1/3.26.
 Alcove, 1.35×1.26 m.; area, 1.7 sq. m.
 Total area, 4.11 sq. m.
 Relation, 1/3.77.
 See Fig. 172.
- (11) G 3035: mastaba, IX e (1); area, 57.2 sq. m.; 4 shafts.
 Chapel, (8 cx); four or more irregularly placed niches.
 Corridor, 9.4×0.7 m.; area, 6.48 sq. m.; prop. 1/13.43.

East alcove, 2.2×4.0 m.; area, 8.8 sq. m.

Total area, 14.38 sq. m.

Relation, 1/3.98.

(12) G 3033: mastaba, IX e (1); area, 53.55 sq. m.; 8 shafts.

Chapel, (8 cx); seven niches, pair, three, and pair.

Corridor, 8.50×0.85 m.; area, 7.22 sq. m.; prop. 1/10.0.

Total floor area, 8.44 sq. m.

Relation, 1/6.34.

See Fig. 173.

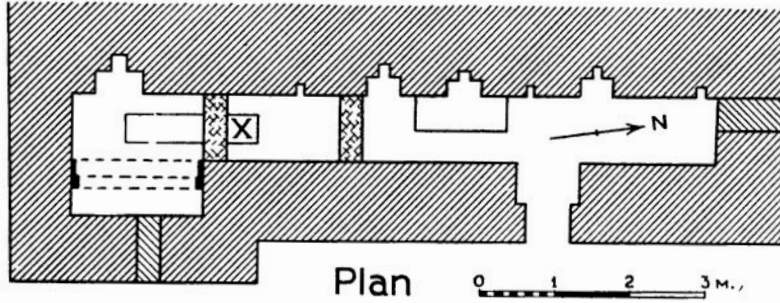


Fig. 173. G 3033 (Fisher)

(13) G 3036: mastaba, IX e (1); area, 38.64 sq. m.; 6 shafts.

Chapel, (8 cx); with two-room alcove; five niches, middle niche flanked by pair on each side.

Corridor, 5.25×0.74 m.; area, 3.88 sq. m.; prop. 1/7.09.

East alcove, 2.45×2.45 m.; area, 6.0 sq. m.

Total floor area, 8.46 sq. m.; net floor area, 8.06 sq. m.

Relation, 1/4.78.

(14) G 3093: mastaba, IX e (1); area, 37.0 sq. m.; 5 shafts.

Chapel, (8 cx); seven niches, three pairs and extra on north.

Corridor, 4.4×1.1 m.; area, 4.84 sq. m.; prop. 1/4.0.

East alcove, 1.9×2.1 m.; area, 3.99 sq. m.

Total area, 8.83 sq. m.

Relation, 1/4.19.

(d) *Exterior chapels of type (8 d) without niches or with no niches preserved.*

(1) G 3020: mastaba, IX c (1); area, 41.36 sq. m.; 8 shafts.

Chapel, with no niches preserved; 7.2×1.1 m.; area, 7.92 sq. m.; prop. 1/6.55.

Relation, 1/5.22.

(2) G 3073: mastaba, IX c (2); area, 30.36 sq. m.; 3 shafts.

Chapel, niches removed by stripping of casing; 6.5×1.0 m.; area, 6.5 sq. m.; prop. 1/6.5.

Relation, 4.67.

(3) G 1364: mastaba, IX c (1); area, 22.0 (?) sq. m.; 2 shafts.

Chapel, (8 d); casing stripped; 4.4×0.95 m.; area, 4.18 sq. m.; prop. 1/4.63.

Relation, 1/5.26.

(4) G 1059: mastaba, IX d (1); area, 12.75 sq. m.; 3 shafts.

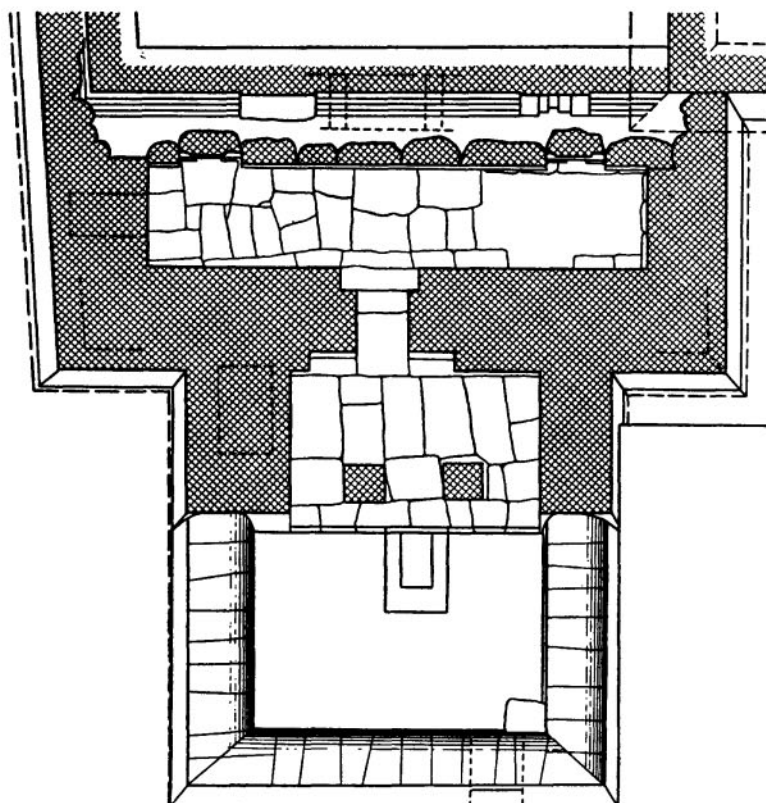
Chapel, (8 d); niches probably furrows in mud plaster; 4.4×1.6 m.; area, 7.2 sq. m.; prop. 1/2.75.

Relation, 1/1.77.

- (5) G 1159: mastaba, IX c (1); area, 19.28 sq. m.; 2 shafts.
Chapel, (8 d); niches probably weathered away; 3.1×1.25 m.; area, 3.87 sq. m.; prop. 1/2.48.
Relation, 1/4.98.
- (6) G 1050: mastaba, IX c (1); area, 10.2 sq. m.; 2 shafts.
Chapel, (8 d); apparently without niches; 3.85×0.95 m.; area, 3.65 sq. m.; prop. 1/4.05.
Relation, 1/2.79.

(e) *Exterior chapels covering the façade of the mastaba: type (8 e).*

- (1) G 2100-II ann.: Nensezerka; mastaba, IX a (1); area, 70.8 sq. m.; 2 shafts.
Chapel, (8 e); built against the façade of mastaba; offering-room, pillared portico and court.



Plan 0 1 2 3m

Fig. 174. G 2100-II ann. (Junker)

- (a) offering-room of type (8 a) with two niches in west wall (not niches in mastaba);
 6.6×1.35 m.; area, 8.91 sq. m.; prop. 1/4.88.

Relation, 1/7.95.

See Fig. 174.

- (2) G 5020: mastaba, II a cased on east with c.b.; area, 251.22 sq. m.; 2 shafts and third in annex.
Chapel, (8 e); now consists of four rooms; magazine in south entered from corridor (b) (with three pairs of niches), vestibule room east of north end of (b), and magazine east of south end of (b), entered from (b).
- (a) u-masonry, 3.5×1.2 m.; area, 4.2.
(b) corridor offering-room, 17.0×1.3 m.; area, 22.1 sq. m.
(c) built of rubble, 2.85×1.35 m.; area, 3.85 sq. m.
(d) E-W vestibule, 1.55×3.05 m.; area, 4.73 sq. m.

Total area, a-d, 34.88 sq. m.

Relation of chapel area to area of mastaba and annex, 1/8.77.

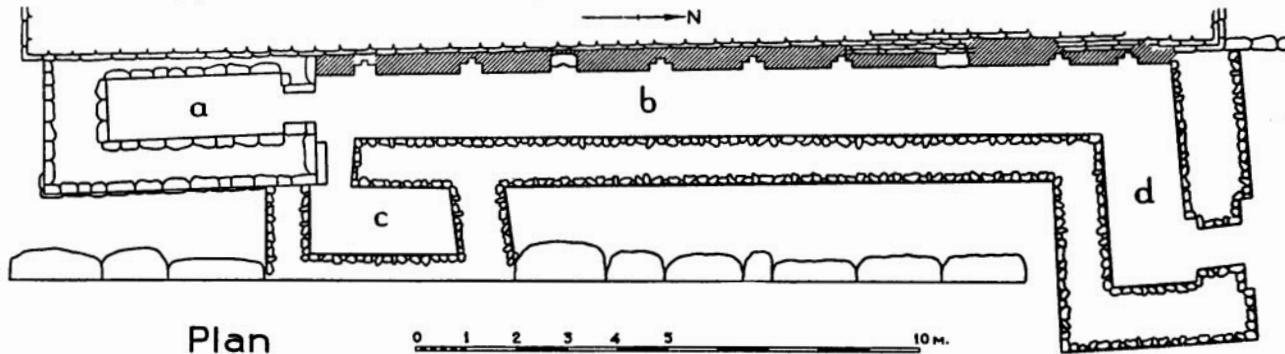
See Fig. 175.

(f) *Exterior multiple-room chapel around chief niche of two-niched mastaba: type (8 f). See type (1 c).*

(1) G 1412: mastaba, IX e (3); area, 149.52 sq. m.; 2 shafts.

Chapel, (8 f); with three rooms around the south niche.

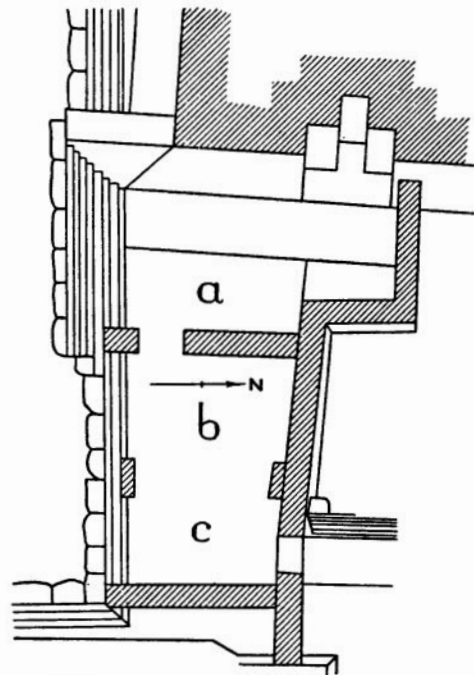
(a) room a chief room, irregular form, 5.64 sq. m.



Plan

0 1 2 3 4 5 10 m.

Fig. 175. G 5020



Plan 0 1 2 3 m

Fig. 176. G 1412

(b) 2.15 × 1.4 m.; area, 3.01 sq. m.

(c) 1.95 × 1.15 m.; area, 2.24 sq. m.

Total area, 10.89 sq. m.

Relation, 1/13.73.

See Fig. 176.

(2) G 5210: mastaba type, IX a (1); area, 214.23 sq. m.

Chapel, (8 f); two-room chapel of u-masonry built around the chief southern niche.

(a) 3.8 × 0.95 m.; area, 3.61 sq. m.; prop. 1/4.0.

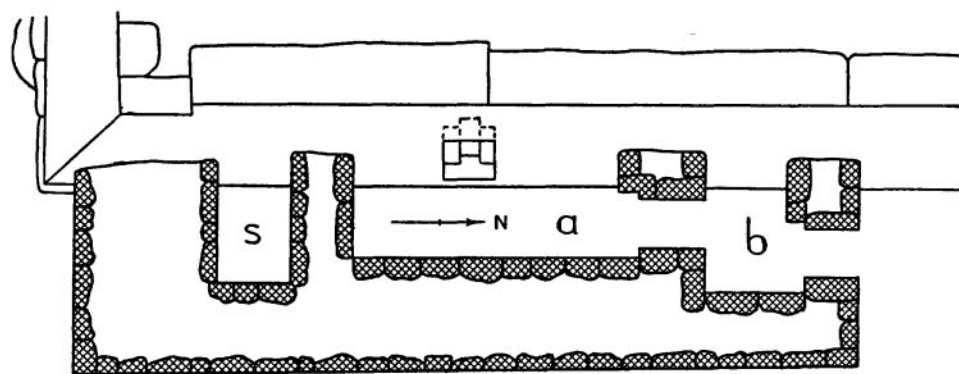
(b) 1.05 × 1.4 m.; area, 1.47 sq. m.

Total area, a and b, 5.08 sq. m.; serdab in south wall of (a).

Relation, 1/42.25.

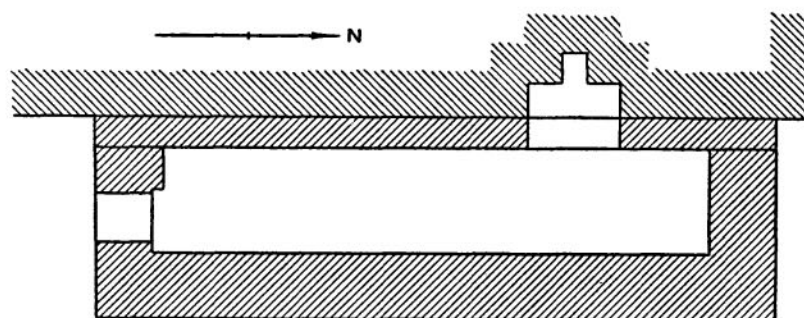
See Fig. 177.

One large roofed stone chapel, G 6020, Iy-mery, presents a plan which might permit it to be classified as type (8 f). The offering-room is built around the chief niche (southern) of a two-niched mastaba. The offering-room is entered by a long decorated E-W corridor on the south of which lies a long E-W



Plan 0 1 2 3 4 5m.

Fig. 177. G 5210



Plan 0 1 2 3 4 5m.

Fig. 178. G 1351

serdab of the same length. The corridor is entered from a square decorated vestibule room with entrance from the east. This chapel is given in full under the complex chapels of type (12).

(g) *Exterior one-room chapel around chief niche: type (8 g). See type (1 d).*

(1) G 1351: mastaba, IX e (1); area, 396.8 sq. m.; one shaft.

Chapel, (8 g); c.b. vaulted chapel around north niche (chief niche); 7.25 × 1.4 m.; area, 10.15 sq. m.; prop. 1/5.17.

Also open exterior chapel on south.

Relation of main chapel to mastaba, 1/39.09.

See Fig. 178.

(2) G 1407: type mastaba IX b + e (2); area, 328.8 sq. m.; 2 shafts.

Chapel, (8 g); c.b. vaulted room around the south (chief) niche; door on north; 5.16 × 2.2 m.; area, 11.33 sq. m.; prop. 1/2.34.

Relation, 1/29.02.

See Fig. 179.

(3) G 4410: mastaba IX a (1); area, 220.25 sq. m.; 1 shaft.

Chapel: exterior stone chapel built against the east face at south end; with subsidiary north niche cut in mastaba at north; construction of u-masonry containing offering-room and serdab; 5.1 × 1.55 m.; area, 7.91 sq. m.; prop. 1/3.29; with exterior c.b. corridor: 5.55 × 1.65 m.; area, 9.15 sq. m.

Total area, 17.06 sq. m.

Relation, 1/27.84.

Dated to Weserkaf or Sahura.

See Fig. 180.

(5) *Exterior Open-air Chapels of Type (9)*

The open-air chapel is the oldest type used for Egyptian tombs, and down nearly to the end of Dyn. II it was the only type used. The early large mastaba of Dyn. I presented three forms: the four-space chapel which surrounded the whole mastaba within an enclosing wall, the chapels of small mastabas surrounding the double niche (Tarkhan), and the chapel not marked off from the areas around except by the walls of other mastabas. In the crowded cemeteries of Dyns. II and III the open-air chapels were reduced to corridor form marked off by the surrounding mastabas supplemented by such walls as were necessary to complete the limits of the offering-space. This open-air type of corridor chapel continued in the great Giza Necropolis, but here an enclosing wall or partial wall was rarely used. Instead, the open-air corridors were often converted by later walls into exterior roofed chapels of type (8). The open-air chapels like the roofed exterior chapels of corridor form utilized the offering-niches of the mastaba. The roofed exterior corridor chapels were in fact modifications of the open-air chapel. Both cover the eastern façade of the mastaba, and type (9) presents the same variations as type (8 a-d).

Type (9 a): with single pair of niches.

In Cems. G 1000-1600: 36 chapels.

Mastaba of type X c: 22 chapels; 30.73 to 4.16 sq. m.

X d: 2 chapels; 28.22 to 19.42 sq. m.

X e: 12 chapels; 76.26 to 2.25 sq. m.

36 chapels; 76.26 to 2.25 sq. m.

Type (9 b): with two or more pairs of niches: 9 examples:

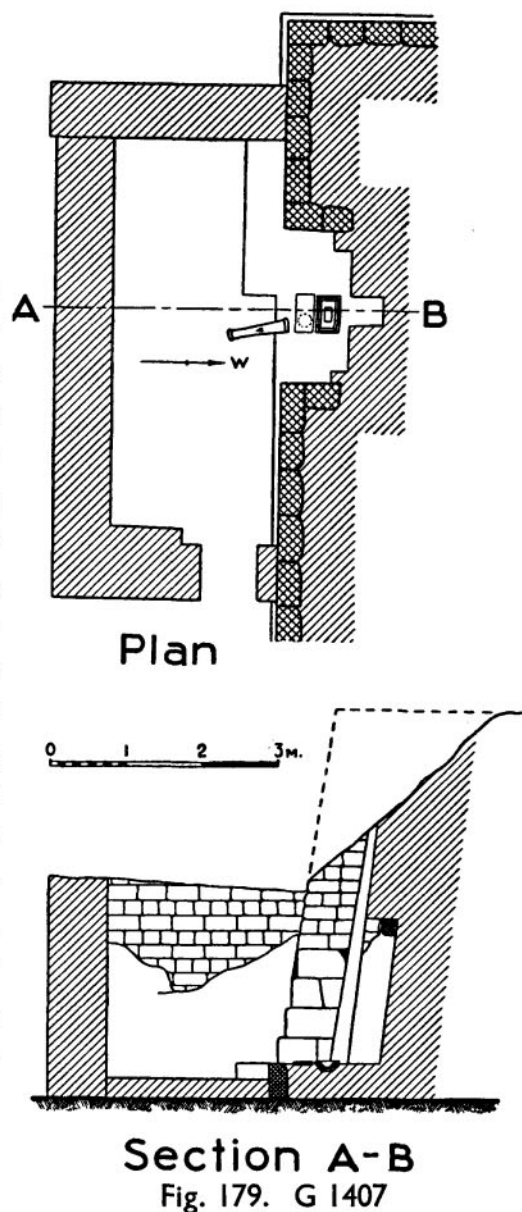
Mastaba of type X e: 9 chapels; 97.9 to 11.9 sq. m.

Type (9 c): with abnormal niche-work.

In Cems. G 1000-1600: 17 chapels.

Mastaba of type X c: 12 chapels; 64.96 to 6.63 sq. m.

X d: 3 chapels; 184.0 to 21.76 sq. m.



Section A-B

Fig. 179. G 1407

Mastaba of type X e: 2 chapels; 46.29 to 14.79 sq. m.

17 chapels; 184.0 to 6.63 sq. m.

Type (9 d): without niches or with no niches preserved.

In Cems. G 1000-1600: 60 chapels.

Mastaba of type XI c: 41 chapels; 192.0 to 2.8 sq. m.

XI d: 16 chapels; 61.54 to 3.04 sq. m.

XI e: 3 chapels; 20.25 to 1.8 sq. m.

60 chapels; 192.0 to 1.8 sq. m.

Total examples of chapels type (9) in Cems. G 1000-1600, 122 chapels, in mastabas ranging in size from 192.0 sq. m. to 1.8 sq. m.

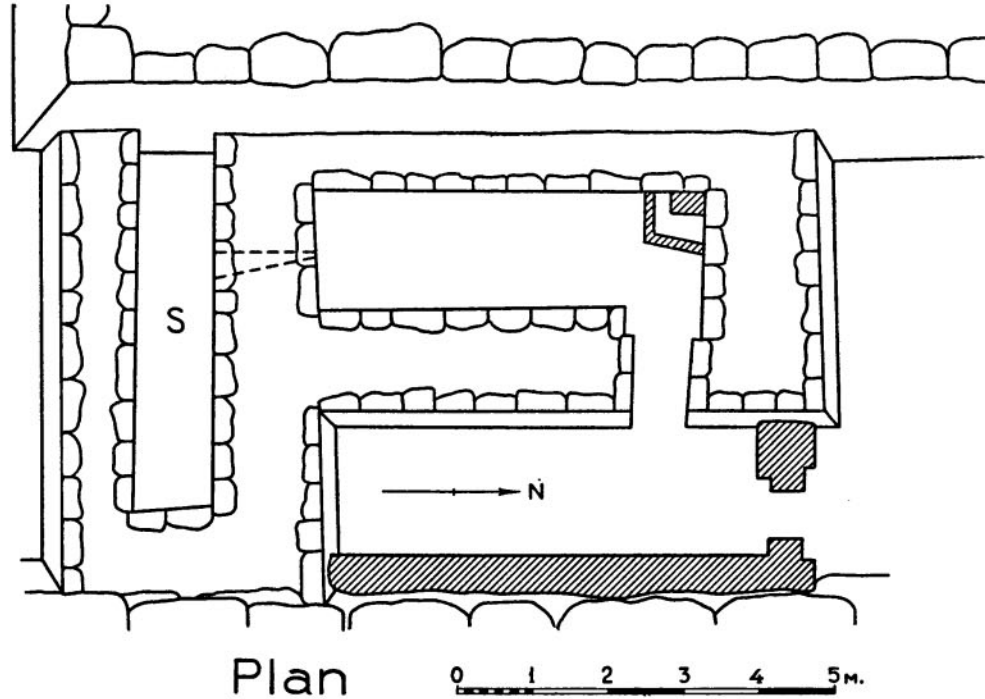


Fig. 180. G 4410

(6) *Interior Chapels of Type (10)*

After the corridor chapel had become the prevailing type of mastaba chapel, a chapel appeared consisting of one square or nearly square offering-chamber with one or two niches in the west wall, entered by a doorway (on north, east, or south), or by a passage corridor. The same form is reproduced in the rock-cut chapel (RC types (v)-(vi)). The mastaba chapel of type (10) presents three variations:

Type (10 a): a room with one or more pillars entered directly by a doorway.

Type (10 b): a similar room entered by a doorway at the end of a corridor.

Type (10 c): a recess room opening on a corridor and separated from it by one or more pillars, which support the roof; has a certain resemblance to type (11 b), but is much smaller and in the southern end of the mastaba; it usually has pilasters in the opening opposite the pillar or pillars.

The squarish offering-room of type (10 a) appears to have been earlier than the other variation, and presents a simple development of the alcove with one or two niches found in examples of type (5 d). In any case type (10 a) is a simple form which might have been developed in the striving for cheapness either in the mastaba or in the rock-cut tomb. The type (10 c) is probably also to be considered as a development of type (5).