N. part of trench with part of South half. At the bottom of pits 4, 5 and 7.

 surprising that there are no bones. This burning also occurred in the sounding next to the altar (Tr. 20B1 pits 11 and 12).

A third subdivision of pit E (85) is assigned to the removal of masses of rubble, namely those directly south and east of the walls 3-4. (see photos p. 29)

Pit 3: 86 under pits 7 and 3 From 6.20 m. to 5.96 m.
Rubble and earth
Sheds: 455 qrs. Scraps of Iron Age but I early 5th c. base + 1 classical lekythos
Other (Large morta at site)
Inv. CG 303: Dcrs bowl

At the south end of the trench we are coming down on what seems like a layer of working chips. We shall try to follow this north. As we clear directly south of what may be an E-W wall near the W. scarp we find that there is a huge morta upside down which we shall leave at the site. It is roughly oval but with one end tapering (0.55 x 0.39 c. 0.10 thck).
Trench at level of working chips
From South, levels at top of pail 9. Alter H visible on west.

Trench 3: 9 under pail 8 (5.3466 Trench)
From 600N/5.985 to 5.83
Stone chips
Shells: 4,800 g. Scraply to later
71% c. B.C.
Other: shells, pumice, bones
Ins.

The top of pail 9 is photographed.
The E-W line of stones which marked the N. limit of pail 8 was found to be stones sitting on earth but they are not yet removed. The whole N. area of the trench will remain undug at present. The curving wall is at max. 0.15-0.20 m. above the level reached w. pail 8. The large stone, which appeared in the SW corner last night, are also just (ca. 0.10 m.) above this level. (See polaroid p. 28)

After the second pass we find that two accumulations of stones, made at the SW corner and that around the east scarp. (see sketch p. 30) sit on earth. They will be photographed in a 1:20 m. scale, photographed and then removed.

We shall now change pail as the chips have finished. It was a rather thin layer with few chips. The earth is brown and soft.
Pail 4:10 under pail 9
From c. 5.83 to 5.82-5.75 S.
Brown softish earth
Shards: 2,100 g. Late Orientalizing
Other: shells, bone, c. Premise

A triangular slab (6.62 x 0.50 x 0.04 thick) is found in the fill and removed. There are quite a few shells, mostly limpets and a few bones. We prepare the groups of stones to be removed for photography, we also terminate the use of pail 18. The blocks in the SW corners are mostly 0.10 - 0.15 thick. Those against the W scarp vary, ranging from 0.11 to 0.18.

We go to the north part of the trench where the level is higher (bottom of pails 4 and 5). We shall dig in the L shaped space between Building V and wall 3+4.

Pail 3:11 under pail 4
From c. 6.25/6.20 to 6.12/6.10
Brown earth and small stones
Shards: 3,300 g. Orientalizing to Late MBA.
Other: shells, bone, c.

2nd: C6304: Kotyle, fr. 2.0 [Corinthianizing]
All accumulations of stone are photographed (seq p.31). We remove the accumulation of stone from near the west scarp with

Pail 3:12 (see plan p.30)
Removal of stones - Brown earth
From c. 6.00 to 6.17
Shards: 2,200 g. Latest: late 7th c.

Sc. 1:50 m. Trip of pail 10
a-e: accumulations of stones of which some may be walls
Sc. 1:50 (Plan above partly based on a 1:20 m measured plan made by G. Bianco)
Roll 2  Frs. 26, 27

Stones, at SW corner of trench before removal.

Frs. 28  29

Stones, near W. scarp, before removal.

Frs. 31  Fr. 32

Stones, at N. side of trench to be removed.

Other
In v. C6312: rim skyphos late 7th c., C6313: Corinthian cup base 7th c.

In pail 11 there are many lirpet pairs and some boxes, we seem to have reached the bottom of Building V, and we stop using pail 11. This is a rough external surface. Lirpet and boxes suggest dumping of garbage.

We start a new pail to dig the area earlier dug w. pail 5. This is full of stones, which we shall try now to define.

Pail 3:13 Under pail 5
From 6.20N/6.07S to c. 5.95
Brown earth, blocks, rubble
Shards: 1570 gr. Scrappy, later 7th c.
E.O.

Other: bones
In v. C6314: E.G. jug late 7th c.

The bottom of well 1 is at level 6.15 at SW end. It seems to slope southwards.
Pail 13 tools slightly below the bottom of parts of Building V.
Roll 3, Fr. 4
"Chicken wall" e
before removal
From South
Sea sketch p.30

Pail 14 is assigned to the earth under the stone, in the southeast corner of the bench.

Pail 3: 14 (a in plan p.30)
Removal of accumulation of stones
From 6.00 m to
Sherd's. 7 P. C. B. C.
Other
1 Inv.

Pail 13 is continued in the north area of the bench. The E-W line of stones marked in the plan p.30 as d sit on the earth we are digging now. Since their south face was found to sit also on each other the level was taken. Further down w. pail 10 we start taking the stone out. Sherd's under them will go into pail 13 since the fill under them is part of he one dug w. this pail. Removal of the stone brings it down to a rough level with rubble, small stone, etc. The line of stones marked e in plan p.30 is being drawn by G. Bianco. It will be photographed and removed, still w. pail 13. Wall 3 continues down still. Its more southeasterly part may be a later extension.

 Accumulation e is 0.90 m wide and c. 2.00 m long. It stops 0.15 - 0.30 m short of building V and rises above V's exterior surface. It is made up of an assortment of slabs and blocks and though maintaining a uniform width is not probably speaking a wall. It is one course and the largest block is (0.35 x 0.42 x 0.25 m deep)

Under the removed line of stones we find
that wall 3 actually continues into the N. scarp. Its identification as a retaining wall becomes more plausible.

We shall take the level west of the retaining wall down to that reached with pail 10 in the south part of the trench.

Pail 3:15 under pail 13 (N.149 Trend)
From c. 5.95 to 5.90N to 5.87 S.
Brown earth with rubble, small blocks
Shards: 1170 gms. to late 7th c. B.C.
Other: bone

The retaining wall as traced is 5.17 m long. A 1.95 m long SE section seems to be an addition. Rubble and small stones turn up in the fill, especially along the line of where the removed stones were. We reach the bottom of the northern part of the retaining wall. The central part still goes down. The southern part sits on earth. We take level 3 photograph (see p. 36) and now that the level of the entire trench is uniform we shall start digging it with one pail (16). Right east of the retaining wall the level is higher, we stopped at about the bottom of Building V.

Pail 4:16 under pails 10, and 15
From 5.90N/5.87 S/5.85 S to 5.80N/5.71 S
Ensite trench
Brownish earth and small stones - soft.
Shards: 350 gms. Scrappy. Mixed to 7th c. B.C.
Some Mitian - some P.G.
Other: cobbled, shells, bones

Inv. C633: Cov. kotyle like C3776
East of the retaining wall the level at the top of pair 16 is as shown on the photograph on p. 36. We reached some 0.10 - 0.15 m below the bottom of a N. section of the retaining wall. The central section continues down. The level at the S. section of the trench is that reached with pair 10. To judge from the north part of the retaining wall there was a slope from N. to S. (Bottom of north wall 6.10; bottom of south wall 5.87 m = 0.23 m diff.)

The earth in pair 16 is soft. There are some small pebbles here and there, as if from a surface. In the N. part we seem to be reaching a surface, reddish with some burning.

G. Bianco sets a new trench directly north of the present one so we can eventually dig Building V. This is modern soil accumulation which the two younger workmen will remove from time to time when things slow down in 54A. This trench will be 54A1. It is 6.00 m N-S x 3.90 m E-W.

NW corner: 1000.18 x; 1120.93 y
NE corner: 1003.99 x; 1121.74 y

...
June 27

The burning seems to be in a limited area, near the N. scarp. We shall replace at this level pail 16 with 17 from the N. scarp to the S. end of the older retaining wall.

Pail 17 under pail 16
Brown earth, burnt earth, tiny stone chips, some small
From 5.80 N / 5.79 S to 5.73 N / 5.78 S
Sherd s: 1000 gs. Scrappy. To LG on 7th c.

Other: bones, shells, lump of iron, charcoal, burnt earth for water sealing

We are beginning to trace what seems like a very rough surface. It may be a continuation of the burn patch (tp at 5.80). In it are a few Burgess, a few bones, bits of charcoal and tiny stone chips. It is not a surface used with the retaining wall was built, that is, its central section which bottoms out just about this level. The section starts 1.95 from the S. corner. It appears now that it may have been a piece with what we called its N. extension, though the latter is too destroyed to really tell. The southern part is definitely newer. A lump of iron in the fill.

From the south end of the older retaining wall and for the same level as pail 17 we shall use a new pail to establish some kind of control in the area to be dug is quite large.

Pail 18 under pail 16
Brown earth, some burnt, some small pebbles
From 5.80 N / 5.79 S to 5.71 N / 5.66 S
Sherd s: 2870 gs. scraps to 7Th c.

Other: cobble, piece of iron, shells, bone, charcoal

Inv.
Bits of iron in the fill of pail 18

Since tracing the surface to show two workmen are shifted temporarily to Trench 54A1 where the sand has been already removed. For the surface level we shall use pail 19. The trench is photographed.

54A1  Pail 1-2:19  Top pail (2 pails)

Earth & sand
From 7.37/6.84 to 7.16/6.75 (see p. 42)
To 1st B.C.
Ovns: shells, bone (not tiles, left at site)
Inv.: C6347 and C6348: flaring bowls.
B: 253: bronze nail

A small area in the NW corner overlaps with Trench 20B excavated earlier. The level at which excavation stopped is at level before in at 7.05 m (see p. 42).
This area is c.0.75/0.80 wide and 3.10 m N-S.
Under the removed sand is an accumulation of rubble on this spot.

In 54A we shall replace pail 17 with pail 20 for the same location.
A single surface was found here with patches of burning, red earth, bits of iron at level c. 5.78 m, at which point we stopped using pail 17. A sample of burnt earth has been collected for analysis.

54R  Pail 4:20 under pail 17

Bone and burnt earth with some small slags
From 5.73 N/3.78 S to 5.67
Shards: 1200 grs. Mixed LG-Orientaling to 7th c.
Other: See p. 42 X. Also bones, shells, charcoal, slag

A strip 0.35 m wide will be left unexcavated along the face of the retaining wall. The lowest bottom of the central part is
Items relating to the "crucible furnace" control from p.43 and 42:

... dark earth collected from around surface (7) Cobble (8) Terrace slot

Weight of Fill Collected

Bag 1: 2 kg 420 gr
2: 410 gr.
3: 3.5 kg 150 gr.
4: 0.5 kg 420 gr.
5: 2.5 kg 270 gr.
6: 0.5 kg 340 gr.

Pail 18 is being continued. In this southern area the surface seems to peter out. After a pan we discontinued that pail. A piece of charcoal was found in the fill in the SE corner. Also a few small roundish cobbles, of the type found in 7m c. levels around the temple, we found scattered in the fill.

It is decided to extend the area excavated with pail 20 to include the burn patch which started in this area but continue further south. Immediately north of the sounding of Trench 2081 we begin to trace a distinct yellowish, rather hard surface, like compacted clay. A little north we trace a roughly circular form. A piece of copper-slab turns up in this location in the previous pits (top of pail 20) that look like more pieces of slab define here and trace the circumference of what is a pit in the surface floor. Its E-W diam. is c: 0.30'. Its N-S diam. is only partially exposed for the pit is covered by a small slab. All around the pit and rising above it is a verycompact orangy earth like clay. We seem to have destroyed part of it along the east side and west side. In the pit is a fill which contains charcoal, sandy filling, gritty buff substance, bits of lime. We collect the top removed layers of fill in a plastic bag. We shall continue its excavation tomorrow.

Photo taken.

D. Harlan, our cataloguer, suggests to me it may be a crucible furnace or melting furnace.
Two workmen remove the top layer in Tr. 54H11 (see p. 42). The earth is rock hard from exposure to sun and rain and possibly becomes the top load, passed over the area in the past. Roof tiles occur and they are collected separately in a zermat.

As earth is cleared away from the pit we realize that the surface we just started boring south of it may have been a somewhat earlier one than the one in which we cut. Shards from it were kept separately from pail 20. A day or two will see the situation clarified. Now they will go into pail 21 which is fill between the surface encountered in pail 20 and the new one. The surface located yesterday is at level 5.63. Pail 20 stopped at about level 5.67.

Pail 4:21 under pail 20
Brown earth with pieces of iron
From c. 5.67 to 5.62
Shards: 490 pcs. To later 8th c. B.C.

Other? Iron ore? Photo
Inv.

The melting pit will be excavated in a series of steps, each of which will be recorded photographically and by measured plans and a section by G.B. Foort. We shall keep all contexts. Bag 1
(Trench 54A/14:20) is the top fill of dark soil and chunks of the hard light buff layer, and bits of iron. The fill collected is about 0.10 m thick. It brought up down to the underlying part of the thick band layer (top at 5.56 m)
This stage was photographed yesterday (see p. 47).

Next we removed the dark fill from holes in the hard layer in the east half (Bag 3).
The east half has the hard layer intact and will be excavated separately.

We start digging the east half where parts of the hard surface is preserved. We remove these parts and the dark fill under it which is very soft and contains a bit of metal in it (Bag 3). We stop this activity at level 5.38, i.e. 0.18m below the top of the hard surface. This stage is photographed (p. 48).

We now shift to the unexcavated west half. We remove the hard layer (0.05m thick) in chunks in Bag 4. At the SW corner of the pit and at level 5.57m there is a curving, broken piece of slag which has become detached. We pack it with pink clay to fill the possible Tuareg fragment.

We remove the dark fill under the dark soft layer (Bag 5). We dig the remaining black fill in the entire pit with Bag 6. We reach a change in fill: off-white at 5.37m and stop. This stage is photographed (p. 48).

The pit is irregular in shape. It tapers inwards as it goes down. At the top max. diam. are 0.31-0.33m. The depth is c. 0.32m. ?Slag is preserved at a few places along the sides. These have been marked in G. Bianco's drawing. On the N-NW side there is a curving, slaty fragment 0.15m tall and of irregular width. A triangular piece projects from the N side (c. top at level 5.51m). The N side of the pit is 3.20m for the north sound.