

May 19, 1972

Dr. William Sumner  
Department of Anthropology  
Ohio State University  
Columbus, Ohio 43210

Dear Dr. Sumner:

Bob Dyson has just told me that you will be in charge of the excavation at Tepe Malyan next fall. I am planning to go there with our cesium magnetometer. I am writing a bit ahead of time because I am leaving for Arizona next week, but should be back by mid-July.

My main questions are as to the exact time of my arrival, and the availability of a generator (either 220 or 100 v A.C.) to charge the batteries -- they have to be charged all night. I shall have to interrupt my stay to attend an International Radiocarbon Conference in New Zealand from October 18-25th. However, if we find the magnetic conditions to be unsuitable for magnetic prospecting, I shall leave for good at that time.

Sincerely yours,

Elizabeth K. Ralph

EKR/nm



**THE OHIO STATE UNIVERSITY**

27 May 1972


Dr. Elizabeth K. Ralph  
Museum Applied Science Center for Archaeology  
University Museum, University of Pennsylvania  
Philadelphia.

Dear Dr. Ralph:

I am delighted to hear that you will be with us at Malyan and I am very interested in the possible results of the magnetometer survey.

I plan to arrive in Tehran on the 20th of Sept and depart for Shiraz on the 28th; work should start on the 4th of Octpber. As you are probably aware, this schedule is subject to radical change depending on the situation at the Arch. Service. I believe the best schedule for your test survey would be as follows: Arrive Tehran on 4 Oct., fly to Shiraz on 5 Oct., Begin survey on 7 Oct. Depart Shiraz on 15 Oct., Depart Tehran on 16 or 17 Oct. Local assistance in Tehran can be provided by the American Institute, P.O. Box 11-1885 (102 Ghaani St).

Please let me know some further details on the required generator including the wattage requiired. There is no electricity in the village and we will have to rent or buy in Tehran or Shiraz. I would like to get someone investigating the matter in Tehran right away so I would appreciate a quick answer.

Sincerely yours,  
  
W.M. Sumner

Dr. Ghavami - Vice Chancellor

Mr. Navabi - helped in office housing, etc.



Dr. Farpour - Dean of Medical School

Dr. Fahouhi - Pharmacology

THE OHIO STATE UNIVERSITY

August 29, 1972

Dr. Elizabeth K. Ralph  
MESCA  
University Museum  
University of Pennsylvania  
Philadelphia, Pennsylvania 19104

Dear Dr. Ralph:

I have been unable to locate the new address of our customs agent in Tehran. Ship your equipment addressed as follows:

Dr. William M. Sumner, Field Director  
University of Pennsylvania Expedition to Malyan  
c/o American Institute of Iranian Studies  
102 Khiaban Gha'ani  
Tehran  
Mark it "Scientific Equipment"

P.O. Box 11-1895

I will arrange for customs clearance.

If you should arrive in Tehran without warning (the mail is unreliable) and no one is at the airport to meet you take a prepaid taxi from the booth outside the terminal to the American Institute or to your hotel. The Institute may not have room because they are small and operate on a first come, first serve basis. I recommend the Tehran Palace Hotel on Reza Shah or the Park Hotel just below Naderie. If you need assistance you may call the American Institute at 43639.

Sincerely yours,

William M. Sumner  
Assistant Professor

Letter to the Chancellor  
from Harmwell

WMS/sg

Dr. Ilam, 1st Chancellor

Pahlavi Univ.

Dr. Zakireh - Shiraz  
Dir. Genl for Administration  
Dr. Bausashimi - Prof. of Chem.  
Banikasimi

September 15, 1972

M.  
Drs. Wm. N. Sumner and J. W. Clinton  
c/o American Institute of Iranian Studies  
102 Khiaban Gha'ani  
Tehran  
IRAN

Dear Dr. Sumner (or Dr. Clinton):

The magnetometers were shipped by air freight in a 4 aluminum Halliburton suitcases labelled "Scientific Equipment". They departed on September 15th Phila. - N. Y. - Beirut on Trans Mediterranean Airways, flight No. 301, Waybill No. 270 0361 0213. They are scheduled to leave Beirut on PAM flight No. 2 and arrive in Tehran at 9:50 P. M. September 17th.

The shipping agent from Philadelphia was F. B. Vandegrift and Co.

The 4 suitcases contain the magnetometers and parts as specified on the list that I sent to you plus one pair of boots. In case you did not receive the list, a copy is enclosed.

I plan to fly from Rome to Tehran on October 3rd on Alitalia flight No. 712 arriving at 6:35 P. M. I have a reservation at the Tehran Palace Hotel.

I plan to leave Tehran on October 5th on Iranian flight No. 321, landing in Shiraz at 8:55 A. M. I hope that some one can meet me there or give me instructions about how to get to Malyan.

Sincerely yours,

Elizabeth K. Ralph

EKR:LF  
enc.

# UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

GAYLORD P. HARNWELL  
PRESIDENT EMERITUS  
UNIVERSITY PROFESSOR OF PHYSICS

Nichols House  
TOWER A, SUITE 2208  
S. W. CORNER 36TH AND CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19104  
TEL. (215) 594-6811

September 22, 1972

Dear Chancellor Mehr:

It has just come to my attention that Elizabeth K. Ralph, Associate Director of the University of Pennsylvania Museum's Applied Science Center for Archaeology, will be in the general neighborhood of Shiraz engaged in a magnetometer study of sites of possible archaeological interest at Malyan from October 5 until October 16. She will be a member of an archaeological field team headed by one of our former students, Dr. William Sumner, now at Ohio State University.

My old department, Physics, and the University Museum collaborated in the early days of Carbon 14 dating, and Miss Ralph is one of the ablest and best known investigators and practitioners of this technique and that of thermoluminescence, which have together been so fruitful during the last decade in bringing precise time scales to archaeological studies, and in many ways revolutionizing the establishment of prehistoric calendars.

Miss Ralph will probably be in the neighborhood of Shiraz during some part of her stay which may extend through November, and should it prove convenient to you she would hope to call upon you and personally bring you the best wishes of your many friends here at the University of Pennsylvania.

With warmest personal regards, I am

Very sincerely yours,



Gaylord P. Harnwell

Chancellor Farhang Mehr  
Pahlavi University  
Shiraz, Iran

---

c/o JOHN DORMAN  
AMERICAN RESEARCH CENTER  
2 MIDAN KASK ED DUBARRA  
CAIRO EGYPT.

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November 21, 1972

Drs. Wm. M. Sumner and J. W. Clinton  
c/o American Institute of Iranian Studies  
102 Khiaban Ghá'ani  
Teherān  
IRAN

*old address*

Dear Dr. Sumner (or Dr. Clinton):

Please forgive me for writing to you together again, but it will save trouble for me in case Bill has already left. I have been waiting to hear from our Egyptologist, David O'Connor, about the shipping of the magnetometers to Egypt.

Apparently, things are almost arranged so that they can be shipped with Smithsonian funds and thus reduce difficulties with customs, in Egypt. However, we will not have definite word until December 1st at which time I'll bable you.

If the magnetometers have already been shipped to the address that I gave to Bill (American Research Center, Cairo) that is all right, but please let me know as soon as possible so that I can alert some one there.

Bob Dyson returned a few days ago, and I was glad to hear that some of the anomalies had produced good results.

From Teheran I travelled all the way to Sydney on a completely filled 747, but otherwise my trip to New Zealand and home was fine.

Sincerely yours,

Elizabeth K. Ralph

EKR/11

1767 Bedford Rd  
Columbus, O. 43212

1/31/73

DEAR BETH-

A QUICK NOTE. JUST CAME HOME FROM HOSPITAL TODAY SO THINGS ARE A BIT DISORGANIZED. I WILL HAVE SLIDES OF THE TWO ANOMALIES FOR YOU ALONG WITH A SLIDE SHOWING THE LOCATION OF THE GRID AND ANOMALIES ON THE SITE. I CAN'T GIVE YOU SLIDES OF THE GRIDS THEMSELVES SINCE THEY ARE STORED WITH OTHER CURRENT WORKING RECORDS AT THE SITE. AS YOU MAY KNOW I WAS NOT AT MY BEST DURING THE LAST WEEK OR SO OF EXCAVATION AND THIS ALONG WITH OTHER DECISIONS MAY NOT HAVE BEEN THE BEST. I WILL HAVE COPIES OF APPROPRIATE SLIDES MADE AND SEND THEM ALONG

TO YOU BUT THEY WON'T GET  
THERE BEFORE YOU LEAVE FOR EGYPT.

GOOD LUCK IN EGYPT. GLAD  
THE MAGNETOMETERS ARRIVED SAFELY.

CHEERS

Bill

W.M. SUMNER

January 18, 1973

Dr. W. M. Sumner  
Department of Anthropology  
The Ohio State University  
13 Page Hall, 65 South Oval Drive  
Columbus, Ohio 43210

Dear Bill,

On the first of April, I have to go on an AIA lecture tour. Some of the talks will include magnetometer surveys, and I should like to upgrade this lecture with some surveys done recently.

Could I trouble you for a few 35 mm color slides of the excavations of the anomalies (subsequent to my departure in mid-October) with enough explanation so that I will know which anomalies they go with. Also, I shall need slides of the grids with the significant anomalies and the map showing where they are located. Are you planning to photograph them, or shall we do it here?

If you are not, could you send them to me before February 10th? Then, I'll get them photographed (both slides and 8x10" black and white) for possible publication in the future. Then, I'll return the grids to you.

I have to leave for Egypt about February 12th, so this is the reason for the rush.

The magnetometers seem to have arrived safely in Egypt.

I hope that you are feeling better.

With best regards,

E. K. Ralph

ER/sa

April 1, 1975

Dr. William M. Sumner  
Department of Anthropology  
The Ohio State University  
13 Page Hall, 65 South Oval Drive  
Columbus, Ohio 43210

Dear Bill:

A budget for travel expenses for one person and the magnetometers  
is as follows:

Air fare, Philadelphia - Shiraz	\$711.00
Air freight @\$2.00/lb., Phila. - Shiraz	480.00

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Sub-total \$1191.00

If the work in Egypt does not materialize, these expenses would have  
to be doubled - namely \$ 2382.00

There will be a few hotel bills coming and going, but I guess that you can  
estimate those.

With Best Regards,

E.K. Ralph

Aug.  
or  
Sept.

Call ~ July 1<sup>st</sup>



THE OHIO STATE UNIVERSITY

May 26, 1976

Anthro - 614-422-4149  
Office - - 9769

Dr. Elizabeth Ralph  
MASCA  
University Museum  
University of Pennsylvania  
33rd and Spruce Streets  
Philadelphia, PA 19174

Dear Beth:

Here is the Malyan staff information memo and travel request form. I am so glad you will be with us and I am counting on the magnetometer to show us the way. Please let me have your schedule and any other information I may need as soon as you can.

Sincerely yours,

*Bill*

William M. Sumner  
Associate Professor

WMS/jwn

Enclosures

P.S. Include a note with your travel request explaining that is ~~is~~ partial fare.

WMS

10/26/76

Malyan Expedition  
c/o Iran America Society  
P.O. Box 86, Shiraz  
Iran

Dr. Beth Ralph  
MASCA  
University Museum  
University of Pennsylvania  
Philadelphia, Pa.

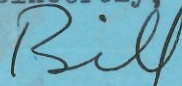
Dear Beth,

We miss you here at the site. You wouldn't recognize anything here. We have our own compound and buildings and we have opened half a dozen new operations. I am sorry that we have been communicating through third parties during the last hectic weeks before the season. I'm sorry also that I didn't write to you earlier in the spring but I kept thinking that the NSF grant would be either approved or not and that I could say something definite. At any rate we really did want you and your infernal (according to Hasan) machines although in the end we wouldn't have had the funds to cover the whole cost. Anyway, If you got the slightest feeling of not being wanted here or if the third party communication irritated you in any way, please accept my most sincere apologies.

The season is going well; nothing spectacular but much interesting data. We have opened a square on another of the spots you designated and found three extremely interesting pottery kilns dating to the mid second millennium B.C. We will probably have time to investigate one more anomaly; that will make five in all. We also have several kilns within the area of your survey which you did not note, I think because they were too small. I will bring the original sheets back with me and maybe you will have time to include the Malyan results in a publication. I still think a survey of the whole site is a very desirable goal.

I hope all is well with you and the Museum. Give my regards to everyone.

Sincerely,



W. M. Sumner



نامه هوایی

پست ایران

AEROGRAMME PAR AVION



10R.

۱۰ ریال

DR. E. RALPH  
MASCIA UNIV. MUSEUM  
UNIV. OF PENNSYLVANIA  
PHILADELPHIA, PENN,  
USA

امریکا

CE PLI NE SERA PAS ACHEMINE PAR AVION  
SIL CONTIENT UN OBJET QUELCONQUE.

داتای نامه هوایی آمریکا به پست ایران

ADRESSE

تایپ شده

TO IRAN AMERICA SOC.  
PO. BOX 86, SHIRAZ  
IRAN

IRAN  
P.O. Box No. 86/86  
c/o Iran-America Society  
Tehran Exhibition

Dr. Ralph  
Mascia  
University of Pennsylvania  
Philadelphia, Pa.

November 10, 1986

Dr. W.M. Summer  
Malyan Expedition  
c/o Iran America Society  
P.O. Box 86, Shirez  
Iran

Dear Bill:

Many thanks for your kind letter of October 26th. I have been feeling guilty about not going to Tepe Malyan, and I was glad to hear that you are not too upset.

One of our problems was the lack of new batteries which have just now arrived. Deliveries here seem to be hopeless these days. Also, I have kept myself busy this summer and fall writing grant proposals.

I was glad to hear that you found some kilns, and I shall have to take a closer look at the small anomalies which I did not designate.

I think that it is a good idea to publish these results.

With best regards,

Elizabeth K. Ralph

THE UNIVERSITY OF CHICAGO  
THE ORIENTAL INSTITUTE  
CHICAGO • ILLINOIS 60637

OFFICE OF THE DIRECTOR

1155 EAST FIFTY-EIGHTH STREET  
Cables: ORINST CHICAGO  
FAX: (312) 702-9853

May 20, 1993

Mr. Bruce Bevan  
PO Box 135  
Pitman NJ 08071

Dear Mr. Bevan,

I am so sorry to hear that Beth died, but glad to hear that her pioneering work will be recognized. She was a gruff, funny, charming field companion at Malyan in 1972, but very serious about her work. She was planning to come back in '74; it didn't work out, which is a pity. I know we would have made important discoveries if she had been there for another season.

The outline of her survey is shown on the enclosed site plan. She had a demagnetized boy who carried the long pole with the sensor, and our Iranian man of all work, Hasan, who carried the read-out box with a black jury rig tube to let him read the numbers. We laid out a rope on an east-west axis and she took readings at every two paces; then the rope would be moved 2 m to the north for another reading. We had only one machine and I am not sure how she measured variation as the day went by.

The anomalies were as follows, all accurately described by Beth before we excavated:

- 1) A small burned room in the Middle Elamite burned building, see:  
Carter, Elizabeth and Matthew W. Stolper. 1976. "Middle Elamite Elam." Expedition 18(2):33-42.
- 2) A single Sasanian pottery kiln, see:  
Alden, John R. 1978. "Excavations at Tal-i Malyan. Part 1. A Sasanian Kiln." Iran 16:79-86.
- 3) A group of five pottery kilns dating to the Qale period- mid second millennium, about 1/2 m below the surface. not published.
- 4) A small pile of fired bricks just below the surface.

Let me know if you need additional information.

Sincerely,



William M. Sumner  
Director

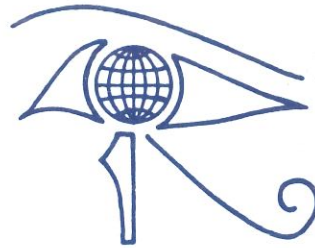
# Geosight

GEOPHYSICAL EXPLORATION AND REMOTE SENSING

Consultation

Field Surveys

Interpretation



BRUCE W. BEVAN, OWNER  
POST OFFICE BOX 135  
[143 GLEN LAKE BOULEVARD]  
PITMAN, NEW JERSEY 08071  
USA  
609/589-9294

28 May 1993

Dear Kathleen,

Thanks very much for helping me locate Beth's magnetic maps for illustrations for Pat's article. You spent a lot of time on the 11th in the search for these records, but I am glad that we finally had success in locating everything which we sought.

I checked with Bill Sumner, and he said that Beth never wrote a report on the survey at Tall-i Malyan. However, he did send me a reference to an article in Expedition which discusses the burnt building which Beth detected. Would you please take a look at this article some time; if it says anything important which we did not see on the 11th, could you mail me a photocopy of it?

The enclosed figures show the burnt room at B and a redrawing of Beth's map at the same scale; I hope to have Beth's original map in the article, but made this redrawing just in case Beth's original does not reproduce well. I also include a copy of Bill's letter which you could put in the Malyan file which you have there.

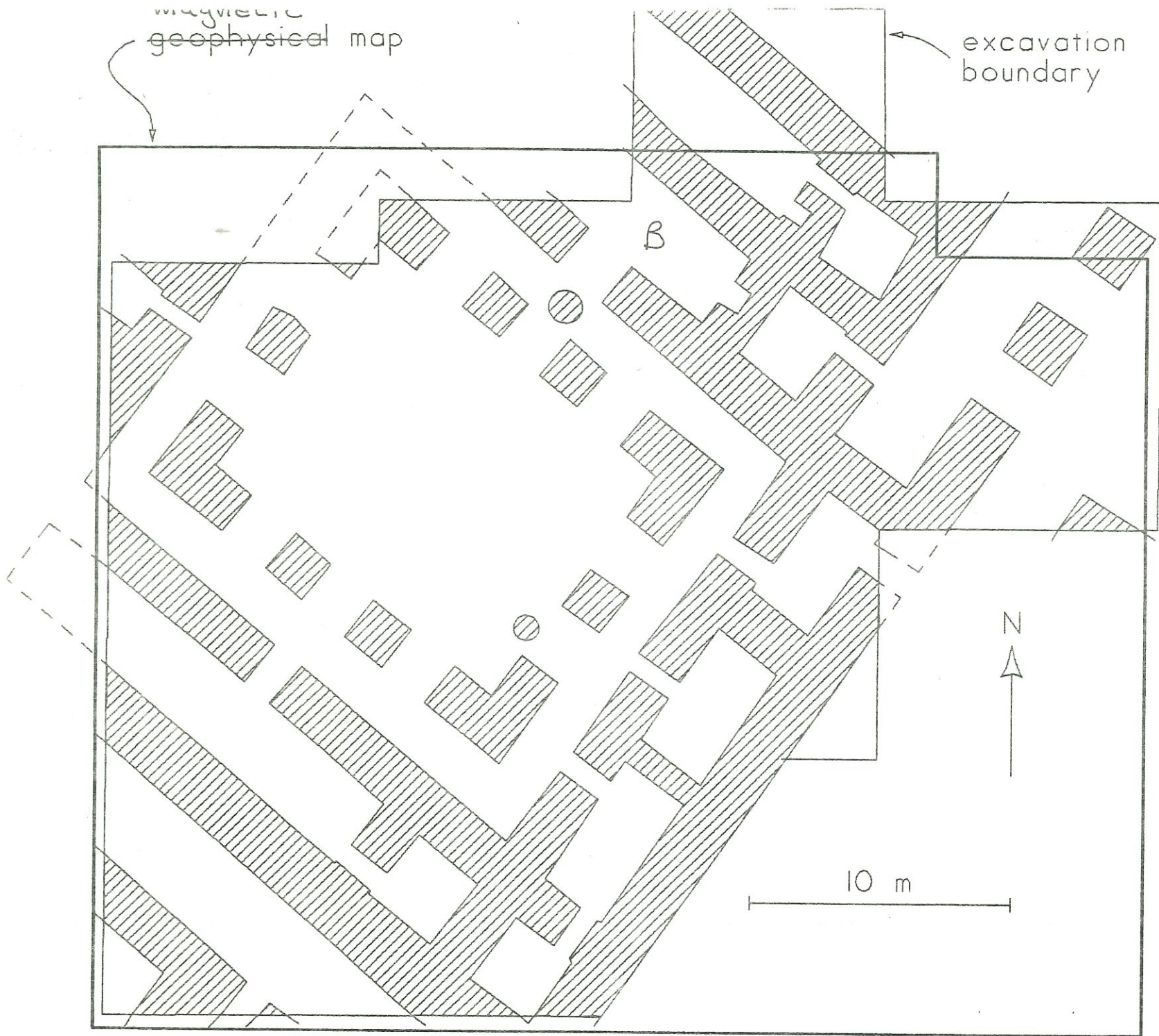
I was delighted to hear about your work and travels in India, Iran, and Africa, but hope that you have a little quieter time for a while!

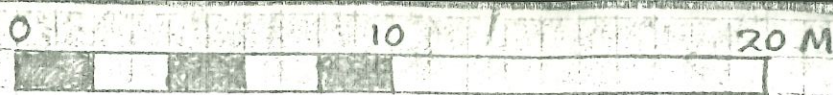
Sent 6/1/93

Bruce

magnetic  
geophysical map

excavation  
boundary





→ N

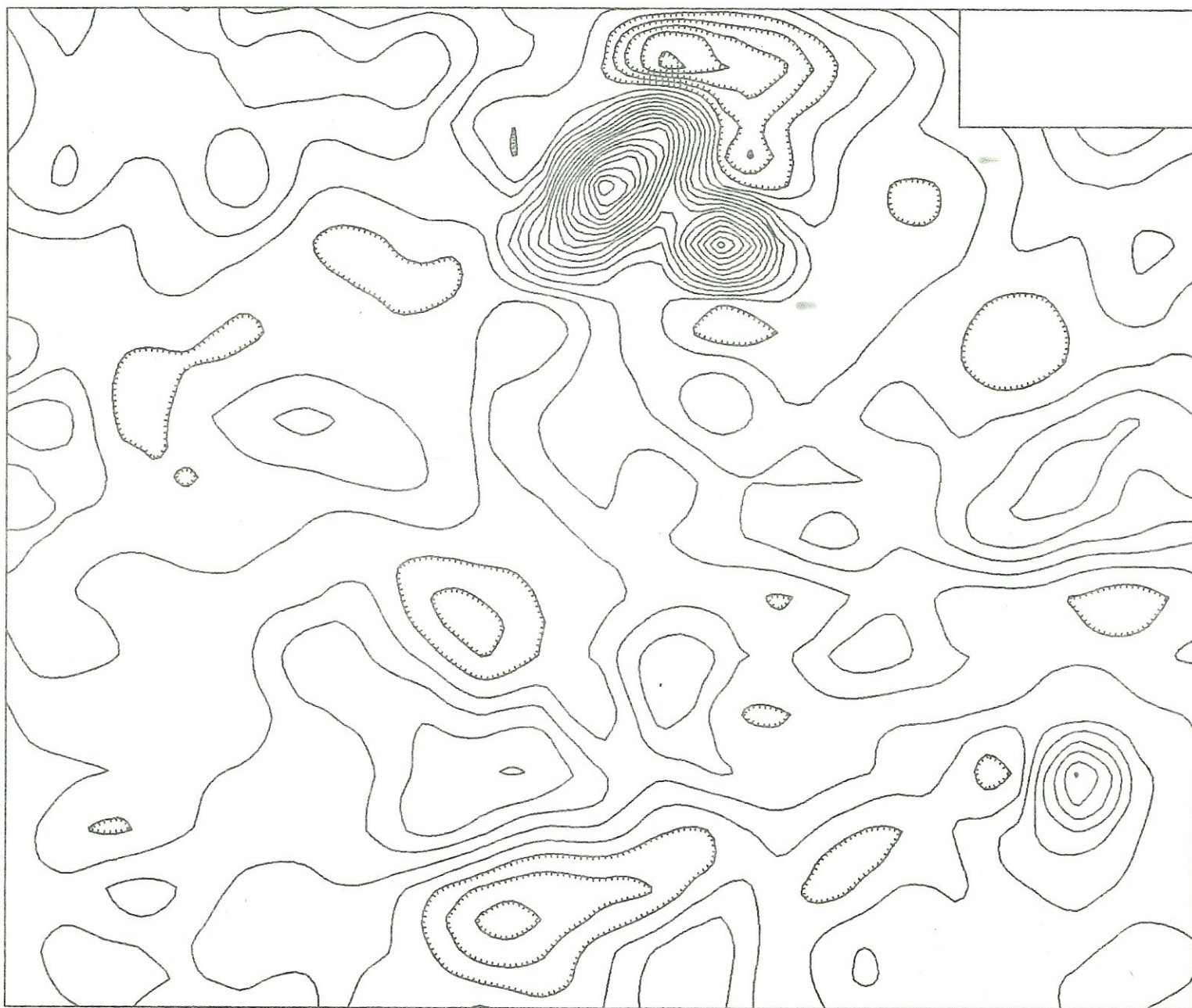
ONE SENSOR

⊙ -2 14 METERS

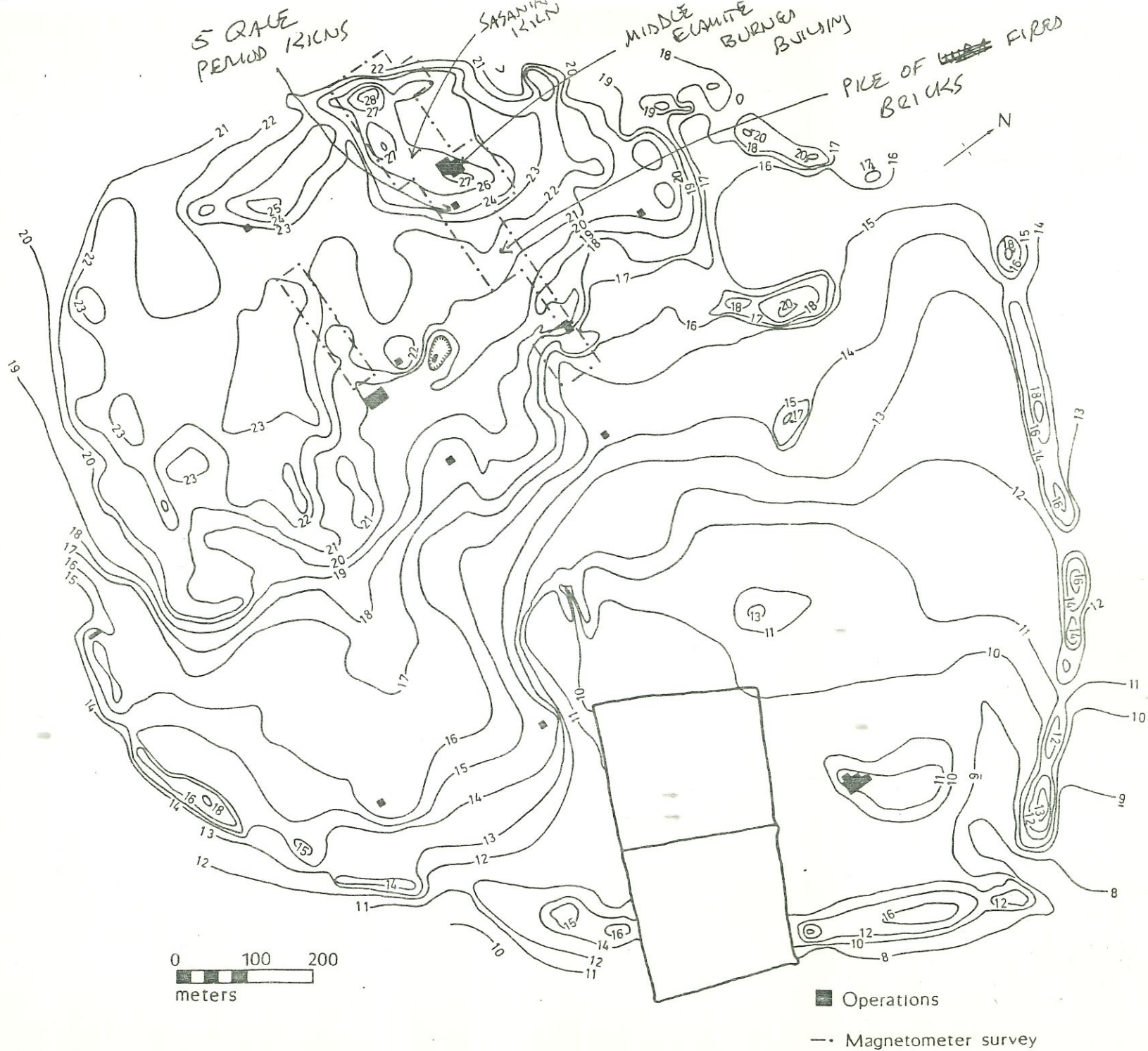
3	114	112	115	113	109	114	116	113	122	105	114	114	121	118	117
2	109	112	107	112	106	114	111	115	117	122	114	113	115	126	124
2	110	117	105	110	107	110	108	112	114	108	110	114	115	118	124
3	111	115	110	110	109	109	108	113	110	113	110	115	119	122	124
2	107	109	113	111	108	109	109	112	113	118	111	111	118	129	125
3	107	109	112	114	114	119	109	110	114	122	113	113	111	118	122
3	107	112	115	114	117	116	112	107	117	118	112	111	109	117	123
2	102	103	124	122	120	109	101	109	116	114	113	110	112	120	121
2	92	94	117	125	115	100	101	109	110	110	110	111	115	117	108
2	94	91	109	125	117	106	106	107	113	116	110	111	114	122	107
1	103	93	109	116	106	112	108	113	117	117	119	120	115	126	105
3	111	96	101	112	123	124	113	115	112	121	122	121	130	151	150
2	114	106	101	116	113	120	113	119	119	128	123	116	118	111	105
2	102	103	108	113	110	114	110	123	120	122	117	120	132	104	104
1	110	99	102	112	112	122	114	128	120	124	119	118	117	116	115
1	109	106	100	109	111	122	119	121	122	127	124	120	117	115	119
1	108	105	106	104	111	116	113	128	127	125	121	122	119	117	123
1	106	109	112	101	108	114	112	134	133	127	116	119	126	125	127
4	107	112	120	136	107	112	110	127	139	132	122	123	125	130	136
5	103	109	111	113	108	114	107	125	129	136	125	128	131	130	138
7	105	108	108	110	111	114	114	121	134	131	126	123	129	128	135
1	107	103	106	108	109	116	117	122	130	130	125	123	125	134	135
1	108	104	108	110	107	116	119	128	128	115	129	129	124	131	132
3	112	100	104	108	109	113	113	138	162	126	121	127	122	131	124
1	103	99	103	105	104	110	110	132	148	119	119	119	120	128	126

TEST EXCAVATION

Magnetic map, contours at 5 nT interval



From Bill Sumner  
20 May 83



PLANNING PAPER NO. 3

UNIVERSITY MUSEUM, UNIVERSITY OF PENNSYLVANIA

EXCAVATIONS AT MALYAN (ANSHAN)

W. M. Sumner

July 1, 1975

This paper is intended to let all Malyan staff and friends know the present status of various projects and to request your opinion of present plans. The volume of information concerning Malyan has reached the point where I can't keep track of things passed on verbally. I very much want to avoid misunderstandings and disappointments, and so, I am asking all of you to keep me informed, in writing, about all plans you have concerning Malyan-- whether or not you want to be on the staff in 1976, what plans you have for your own Malyan-connected research, what talks or papers you are presenting, and what articles you are planning for publication. I will try to respond as quickly as possible to all such communications. Please let me know as soon as possible if any of the information below is in error or is incomplete.

CURRENT PROJECTS

A. NSF Analysis Grant: The following projects are currently in progress under NSF Grant No. SOC75-01483.

1. Records and Computer Program. Janet Nickerson (Ohio State University) has finished inking all 1974 object drawings. Complete copies of the 1974 Register, including photograph negative number, period, and other added data have been prepared for the University Museum and the Iranian Centre for Archaeological Research. Janet has also written a detailed guide to the Registration Sheet codes based on Carol Beeman's notes. A revised version will be circulated before the 1976 season for your comments.

Jay Nickerson (Ohio State University) has been working on the ABC sections in preparation for a trial run on our computer register project which we hope will make it possible to get quick, accurate lists of finds from any particular contexts and other types of tabulations. Jay has found the problem, so simple to state, is not so easy to execute--it is clear that we will go into the 1976 season with a much better appreciation of the working implications of our recording system. Several changes will be made in the field recording system as a result of what we are learning. The only major change from the site supervisor's viewpoint is that all adjacent operations will use a single feature number series. Registration of many categories of "mf" finds will be simplified by the use of codes on a tabulation sheet rather than making an individual sheet for each find. I will circulate a draft of next season's recording system this fall.

2. Paleoethnobotanical Project (Ph.D. Dissertation). Naomi Miller. (University of Michigan) has been sorting seeds and other botanical samples. Tentative identifications so far include wheat, hackberry, polygonum, grape, and possibly coriander. In the fall, Naomi will go to Holland to study seed identification with Dr. van Zeist at the Biologisch-Archaeologisch Institut, Gronigen. She will work on the actual seed counts when she returns to Michigan.
3. Paleoethnozoological Project (Ph.D. Dissertation). Mindy Zeder (University of Michigan) continues her computer-assisted analysis of animal bone. She is presently working on various techniques to distinguish the bones of animals raised in different types of environments, using a modern collection of material from various parts of Iran. These techniques include the microscopic examina-

tion of crystallin<sup>e</sup> orientation in thin section, as well as analysis of chemical composition using atomic absorption and other techniques.

4. Mineralogical (Paleoethnominerology?) Project. Dr. Ernie Ehlers (Ohio State University) is supervising the mineralogical analysis as a faculty associate of the Malyan project. Jim Blackman (Ohio State University) has done an initial screening of all mineral samples from the 1971 and 1972 seasons. He has also completed a second-stage analysis of calcite, obsidian, quartz, and hematite; he is presently working on a group of green-grey stones ("steatite"). Jim is also working on samples of the pigment used in ABC Level III; a surprising finding in this connection is that the wall paintings are not on clay plaster, but it appears that they are on a low-grade lime plaster. Dr. Ehlers has examined a number of unusual specimens under the electron microscope, and he is presently working on a group of metal slags (also see paragraph B5 below). He has also supervised an honors thesis in mineralogy by James Seffens, using fragments of beads from Malyan.
5. Pottery Typology. I am working on Banesh and Kaftari pottery. Basically, I want to identify attributes which have chronological significance so we can at least try to say something about the relative dating of disconnected operations. I will begin with Banesh pottery from ABC and work independently of Ilene (see paragraph B1 below); we will compare results later. Time permitting, I will also start on the ABC Kaftari pit and well lots later in the summer. At the very least, I want to come out of this with some pre-printed pottery count sheets. You know what that means.

**B. Other Research Projects**

1. Banesh Mound (TUV). A Ph.D. Dissertation proposal entitled, "A Spatial/Functional Analysis of Banesh Period Occupation at Tall-i Malyan, Iran" by Ilene Nicholas (University of Pennsylvania), was submitted and successfully defended in an oral examination in May. Ilene is presently working on the TUV Banesh pottery from 1974, and she will also use material from the excavation of TUV Level III to be continued in 1976.
2. Epigraphic. Dr. Matthew Stolper (University of Michigan) is completing a preliminary study of the Middle Elamite texts. A number of the texts have been coded and will be run on the computer program developed by Dr. Buccellati (UCLA).
3. Shell. Dr. David Stansbery (Ohio State University) has identified the fresh-water shells from the 1971-1972 seasons.
4. Kaftari Period. Jay Nickerson is working on a Ph.D. Dissertation proposal for a study of the Kaftari period.
5. Dates. Dr. Beth Ralph (MASCA) has provided some new dates:

## a) Operation X65

## Thermoluminescence Dates:

359-C, AD 290  $\pm$  150359-D, AD 380  $\pm$  150359-E, AD 250  $\pm$  175

These look good; samples A and B in the same series, appear way out.

Compare C<sup>14</sup> Date:

P2185, AD 270 ± 50 (MASCA correction)

b) Kaftari(?) Period

P2186, 2150 ± 70 BC (MASCA correction). This comes from a Building Level II pithos, which was protruding through the erosion surface; hence, the question about period.

c) Banesh Period

P2187, 3150 ± 60 BC (MASCA correction). This is from ABC Building Level IV.

In March, we submitted four additional Banesh samples and three Middle Elamite samples.

Dr. Gary Carriveau attempted to date some Malyan slag by thermoluminescence; as a part of his study, he did an analysis of the mineral content of metal prills and the slag they came from. This research will provide information on the relationship between metals and the slags formed when they were smelted. (See W. J. Young (ed.), Application of Science to the Dating of Works of Art for an account of this research.)

Note: There are a number of other research topics, some small, some more ambitious, which need to be done and for which we seem to have enough data:

- a) Stratigraphic analysis of test trench D (1971): This is a research project someone at Pennsylvania could do for a course or as an independent study. I would like to have the TT-D material analyzed without reference to anything else that has been done as a test of

our typological and stratigraphic conclusions based on the ABC and EDD operations.

- b) Seals, sealings, and sealing practice: This is probably a dissertation project.
- c) Flint technology and sources: This is also probably a dissertation project. A large collection of flints from my survey are also available to give chronological perspective.
- d) Identification of marine shells.

There are several projects not directly connected with Malyan that would be very interesting. These include survey of the eastern parts of Fars or along the route to Susiana, and an ethno-archaeological study of a Fars village. Eventually, we must try to examine some small sites of the Banesh and of the Kaftari periods to get an idea of the differences between rural and urban places. Finally, no Lapui site has ever been excavated. I would like to hear any ideas you have on Malyan-related research.

C. Publications and Papers: Recent and In Process

1. Operation X65. John Alden (University of Michigan) has completed an article on the Sassanian kiln excavated in 1972. I plan to submit this article to Iran 1976, along with the second preliminary report, if space permits.
2. Middle Elamite Building (EDD Operation). Dr. Elizabeth Carter and Dr. Matthew Stolper are collaborating on an article for Expedition about the Middle Elamite building.

3. I am working on a preliminary report for publication in Iran XIV of the 1974 season, which is concentrated on the Banesh levels (Operations TUV and ABC).
4. Janet Nickerson and I are planning an article on ABC Building Level III for Expedition.
5. Papers and Lectures. IIIrd Symposium, Tehran, November, 1974:  
Summary of 1971-1972 seasons (William Sumner) and Middle Elamite Building (<sup>Elizabeth Carter</sup>~~Matthew Stolper~~).
- Iran-America Society, Tehran, December, 1974: 1974 season (William Sumner).
- AIA Annual Meeting, Chicago, December, 1974: 1974 season (Robert H. Dyson, Jr.).
- East Coast Archaeological Marching and Chowder Society, Harvard, March, 1975: 1974 season (William Sumner).
- Oriental Institute Symposium on Seals and Sealings, Chicago, March, 1975: 1974 season (William Sumner).
- AOS Annual Meeting, Columbus, April, 1975: Banesh Levels, 1974 (William Sumner); Elamite Administrative Texts (Matthew Stolper); Middle Elamite Building (Elizabeth Carter).

Columbus Society, AIA, May, 1975: 1974 season (William Sumner).

I am writing a paper for the IVth Annual Symposium in Tehran (November, 1975) on the 1974 season, and a paper which develops some ideas about strategic problems at large sites (see Planning Paper 1) for the 1975 AAA meeting.

Note: If you give a Malyan paper or lecture, please send me a copy if your lecture is written, or at least a title, date and place (if the lecture is advertised, I would like a copy of the flyer).

#### PLANS FOR THE 1976 SEASON

I hope that 1976 will be our best financed and most completely staffed season. In addition to the basic contribution from the University Museum Excavation Fund (with contributions from the Metropolitan Museum of Art and the Boston Museum of Fine Arts), we will submit a proposal to NSF. I will write the proposal this summer and try to submit it by 1 October. Any ideas or suggestions you have will be greatly appreciated. I am also looking for other sources of funding, particularly for specific requirements such as travel, a vehicle, and the dig house.

#### A. Dates

A short laboratory-study period will last from about 20 July until 20 August. I hope to build a dining room-kitchen wing on the dig house at this time, plus five more bedrooms. Beth Ralph (MASCA) will complete the magnetometer survey, Ilene Nicholas (University of Pennsylvania) will study the TUV pottery which was left at the site in 1974, and Mindy Zeder (University of Michigan) may work on the animal bones stored at the site.

The excavation season will last from 20 August until 20 November. It is essential that all site supervisors be at the site for the whole season. If you have any reason to think you can't get there on time or must leave early, please tell me now so I can work out a plan to cover for you. (I won't like it.) Some laboratory staff could arrive a week or so late.

A period of 15 days for completing records and lab processing will be scheduled at the end of the season and may be extended if necessary. It is essential that all laboratory staff be able to remain at the site for this period. Some site supervisors may be able to leave earlier.

#### B. Staff

If we are successful in our grant request, I would like to enlarge the staff by adding two site supervisors and several laboratory positions as follows:

1. Director: William M. Sumner (Ohio State University)
2. Assistant Director and Site Supervisor: Elizabeth Carter (University of Oregon), EDD.
3. Assistant Director and Epigrapher: Matthew Stolper (University of Michigan).
4. Site Supervisor: John Alden (University of Michigan), ABC
5. Site Supervisor: Susan Howard (University of Pennsylvania)
6. Site Supervisor: Linda Jacobs (University of Oregon)
7. Site Supervisor: Ilene Nicholas (University of Pennsylvania), TUV
8. Site Supervisor: Jay Nickerson (Ohio State University), Kaftari
9. Site Supervisor: Not selected
10. Site Supervisor: Not selected

11. Paleoethnobotanist: Naomi Miller (University of Michigan)
12. Paleoethnozoologist: Mindy Zeder (University of Michigan)
13. Registrar: Carol Beeman (University of Michigan)
14. Artist: Janet Nickerson (Ohio State University)
15. Conservationist: Not selected
16. Photographer: Not selected
17. Sherd Yard Supervisor: Not selected
18. Paleomagnetic Survey: Beth Ralph (MASCA)

This seems to be about the absolute minimum staff, and we should probably have one or two more people in the laboratory. Comments? I have not assigned operations to all site supervisors, but there will probably be two at EDD, two at ABC, two at TUV, and one each at two new Kaftari operations. If there are objections or comments on staff, let me know.

#### C. Excavations

Excavation of the Middle Elamite Building (EDD) will continue. We will also excavate TUV, Level III. Level V in ABC will be expanded to about the full extent of Level IV, leaving a shoveling platform along the western edge. One of the new Kaftari operations will be located on a magnetic anomaly. The other will be to the northwest of ABC.

Last season, there was a tendency for the authority of site supervisors to become obscured and for one site supervisor in a major operation (ABC, TUV, or EDD) to accept more responsibility than the other. I can't decide whether or not this is a good thing. My inclination is to think not. In any case, the question should be discussed and explicitly resolved before 1976. Clearly, Liz wears two hats at EDD in that she decides which square to excavate next, when to stop, etc. Still, the excavation and recording of a square is really the

site supervisor's responsibility. At TUV, the case is even fuzzier. Ilene will have data recovery standards related to her own dissertation objectives, which gives her a special interest in the way things are done by the other TUV site supervisor. But, once again, she will no doubt be fully occupied in excavating and recording her own square. In 1974, there were times when several squares were being excavated by a single site supervisor. My tendency is to generally suppress this practice in future seasons. Please let me know your thoughts on this question.

D. Recording

I hope we can significantly improve our record-keeping before 1976. Jay is working on several problems: 1) summarizing lots and strata for adjacent squares, and 2) coding this information and data from the register for computer manipulation. Liz and Ilene are both working with field notes in an attempt to summarize the EDD and TUV operations. I would like to have your suggestions on recording by early October, if possible. I particularly want your ideas on recording details of provenience and on coordinating the records for adjacent operations so that features will have only one number.

E. Budget

If you have any special needs for 1976, please tell me now. This includes equipment, shipping, and services. I am not planning to ship anything back by air next time--far too expensive.

Finally, if you do have any comments or suggestions on any of the foregoing, let me know as soon as possible. I will start writing the grant proposals before the end of July, and would appreciate your comments before then.

PLANNING PAPER NO. 5

MALYAN PUBLICATIONS

W.M. Sumner

January 30, 1978

Enclosed is a tentative outline for publication of the preliminary phase at Malyan. I would appreciate your comments on the organization and scope of the outline. For your section please estimate number of pages, full page figures and photo plates. The grouping of sections into volumes is just guess work at this stage.

Since I am totally inexperienced at such a task I will need all the advice and assistance you can provide. Some of the questions in my mind follow but no doubt there are many points that have not occurred to me.

SCHEDULE:

1. Final excavation season of the preliminary phase - 6/20 - 8/31 1978.
  - a) Test soundings for stratigraphic control below TUV, EDD (courtyard), GGX98, ABC and H5.
  - b) Expansion of opening adjacent to H5.
2. Analysis and preparation of first draft manuscripts October 1978 through December 1980. This work to be supported by NSF. (P. SHALLAN)
3. Final editing of manuscript to begin in January 1981 and to be completed by September of that year.

This is an optimistic schedule but I intend to make every effort to meet it.

COORDINATION This is clearly a major problem. My present plan is to circulate all manuscripts and preliminary results, even in very rough form, to all individuals involved. Everyone must be free to use all data and results of analysis to support their own interpretation within each area of responsibility. This will no doubt lead to some territorial disputes which I will arbitrate. I have no intention of attempting to impose uniform interpretations since I believe a diversity of opinion will make the publication much more useful and honest.

UNIFORM STYLE I hope the publications will be issued through the Univ. Museum. I will try to resolve issues of format and style as quickly as possible, certainly before June 1, 1978, and issue some sort of style manual. I envision an offset, paper bound, 7 1/2 x 10 1/2 inch format similar to the Univ. of Michigan, Museum of Anth. Memoirs. Object and pottery drawings will accompany each chrono. chapter (Banesh, Kaftari and Qale-Middle Elamite). Captions will include complete registration and provenience data including registration codes. The complete register will be made available separately on tape (on cards or print-out). We need to decide on uniform conventions and scale for object, sherd, plan, section and miscellaneous figures and tables. Tentatively:

- A) General figures (graphs, etc.) and tables in Amer. Anth. style.
- B) citations and unified bibliography for each volume in Amer. Anth. style. (epigraphic volume an exception?)
- C) small objects (seals, sealings, coins, etc.) at 1:1, original drawing 2:1.

D) Sherds and large objects at 1:4, original drawing at 1:1.

E) Plans and sections at 1:150, original drawings at 1:50.

We must select letter style and symbolic conventions. The text will be organized using a uniform sub-heading and paragraphing style.

#### FUNDING

A) Analysis - I will submit a proposal to NSF for an analysis grant, by March 1 to begin October 1, 1978. I would like to include a research associateship for some of the graduate students who are working exclusively on Malyan material. Clearly it will not be possible to include everyone so I need some information on who has access to other forms of support during 1979-80. I also need information on supplies and services required. Please submit proposed budgets with complete justification and outline of objectives to be accomplished. I particularly need descriptions of specific problems, questions, hypotheses and types of analysis proposed. I am presently re-reading your various dissertation proposals and would appreciate copies of any new proposals. THIS IS MY HIGHEST PRIORITY REQUEST. MY SUBMISSION DEADLINE IS MARCH 1.

B) Publication - I simply do not know how we will raise the amount necessary for actual publication. I will welcome suggestions and will keep you posted on developments. I plan a trip to Penn to discuss this in February.

AGREEMENT I request a letter of agreement from each of you indicating your willingness to undertake the particular chapters assigned and your estimate of your own time schedule. I would also like to have your agreement to the principle of sharing data and analysis results

and to my role as editor and arbitrator of disputes. I would encourage you to present preliminary papers and publications outside the framework of this proposed series of monographs but I request you to state that I will be allowed an opportunity to comment on such papers or articles before publication. If such articles constitute complete publication of your contribution I wish to reserve the right to have them published in the monograph series rather than elsewhere. This last provision to be cancelled if funds for the monographs are not in hand by December 1980. Excuse this legalistic jabberwocky but I think we will all be happier for it.

WORK IN PROGRESS Please send outlines and preliminary drafts of any work in progress and keep me informed of your activities. Don't be upset if I only answer letters requesting information. I know you are out there and I appreciate your efforts but I just can't always find time for correspondence.

## OUTLINE FOR PUBLICATION

## MALYAN (ANSHAN): PRELIMINARY PHASE

## Malyan 1. The Kur River Basin: Environment and settlement patterns

1. Forward - (Sumner) Taruf
2. Introduction - (Sumner)
  - A) History of project and related research.
  - B) Organization of publication series. Data sets available.  
Location of material.
3. The natural environment of the Kur River Basin (Blackman, Miller and Zeder)
4. The cultural environment of the Kur River Basin. (Jacobs?, Miller?)  
I'm looking for someone who will summarize the ethnography of farmers and pastoralists in the area - basically a background, state of the art review, particularly settlement patterns.
5. Settlement patterns in the Kur River Basin
  - A) The Palaeolithic (and Pre-Ceramic Neolithic?) (Rosenberg)
  - B) Early sedentary period (Mushki-Bakun) (Sumner)  
Rework of Sumner dissertation material.
  - C) Title? (Lapui and Banesh) (Alden)
  - D) Title? (Kaftari - Qale) (Nickerson-Sumner)
  - E) Title? (M.E., Shogna-Teimuran, Achaemenid) (Jacobs)
  - F) Partho-Sasanian-Islamic (Whitcomb)
  - G) Summary: Settlement in the Kur River Basin and Fars  
(Sumner and collaborators)

## Malyan 2. Excavations at Tall-E Malyan (Anshan): Banesh Period

1. Introduction (Sumner)
2. Research Strategy (Sumner)
  - A. Planning - Objectives of preliminary phase
  - B. Excavation and recording
  - C. Publication and data access (complete bibliography, inventory of unpublished data and access information). This will expand on information in introduction to Volume 1.
3. The Site
  - A. Topography and setting (Sumner - Blackman)
  - B. Surface survey: 1% pick up, surface remains, magnetometer survey (Sumner - Ralph)
  - C. Summary of operations (Sumner)  
Where? How big? How deep, stratigraphic summary.
  - D. Chrono. introduction (Sumner),  
stratigraphy, periodization, C14.
4. The Banesh Period
  - A. Operation ABC (Alden? - Sumner)  
John, do you want to and can you commit time to this?
  - B. Operation TUV (Nicholas)
  - C. The Banesh seals and sealings (Pittman)
  - D. Summary (collaborators)

Malyan 3. Excavations at Malyan (Anshan): Kaftari, Qale and  
Middle Elamite Periods

1. Introduction (Sumner)
2. The Kaftari period (Nickerson)
3. The Qale - Middle Elamite period (Carter)  
(Possibly to include results of a proposed 1979 season devoted  
to EDD)

Malyan 4. Excavations at Malyan (Anshan): Epigraphic Studies -  
Will this be a separate series? (Stolper). Dyson has  
generously made some funds available and this is well on the  
way.

Malyan 5. Excavations at Malyan (Anshan): Special Studies and Summary

1. Introduction (Sumner)
2. Archaeometric Studies (Blackman)
  - A. Obsidian - Jim already has results to be circulated soon
  - B. Chlorite - underway
  - C. Clay - underway
3. Botanical Study (Miller)
4. Zoological Study (Zeder)
5. Technological Studies
  - A. Flint (Rosenberg? Sumner?)
  - B. Ceramic - Who can deal with kilns and ceramic production?  
(Bari where are you?)
  - C. Metallurgy - Who? Is Masca interested?



12/19/73

University of Pennsylvania C<sup>14</sup> Dates for TALL-I-MALYAN, IRAN

Lab. No.	Excavator's No.	Location	Material	Pretreatment	5568 Half-Life		5730 Half-Life	
					B.P. 1950	A.D./B.C.	A.D./B.C.	with MASCA Correction
P-2059	136	Operation B1, Feature 27, Area 43	"Reed Matt carbonized"	NaOH	12,546±146	10,596B.C.	10,972±150B.C.	
P-2060	22	Operation EE41, Lot 29	Charcoal	NaOH	3169±53	1219B.C.	1314±55B.C.	1500-1540B.C.
P-2061	14	Operation EE41, Lot 17	Charcoal		3061±56	1111B.C.	1203±58B.C.	1380-1400B.C.
P-2062	77 and 78	Operation C, Lot 56, Area 20	Carbon	NaOH	3556±55	1606B.C.	1713±57B.C.	2070 B.C.
P-2063	52	Operation C, Lot 34, Area 16	Carbon	NaOH	3428±62	1478B.C.	1581±64B.C.	1780-1900B.C.

Notes:

- 1) P-2059 consisted mostly of dirt. Possible threads of the "Reed Mat" may have been impregnated with bitumen which would make the C<sup>14</sup> dates erroneously early.
- 2) The dates in the right-hand column with MASCA corrections are our best estimates of the true ages of the samples. These correction factors have been published in MASCA Newsletter, Vol. 9, No. 1 (August 1973).

*Beth Ralph*

March 25, 1974

STAFF MEMO, MALYAN 1974

EXCAVATION SCHEDULE: About 24 August through Nov. Everyone is counted on to arrive as scheduled below and to remain on the site until the end of the season. If you are unable to meet the schedule let me know immediately.

<u>NAME</u>	<u>POSITION</u>	<u>SCHEDULED TO ARRIVE IN SHIRAZ</u>
John Alden (Mich)	Site Supervisor	August <del>23</del> <i>Sept 7</i>
Carol Beeman	Registrar	August 23
Elizabeth Carter (Oregon)	Asst. Field Director	open
Robert H. Dyson, Jr. (Penn)	Project Director	open <i>Sept 7 if possible</i>
James Frasche	Photographer	August <del>31</del> (or later) <i>Sept 7</i>
Susan Howard (Penn)	Site Supervisor	August <del>23</del> <i>Sept 7</i>
Linda Jacobs (Oregon)	Asst. Registrar	August 23
Naomi Miller (Mich)	Palaeo Botanist	August 31
Jay Nickerson (OSU)	Site Supervisor	August 23
Michael Nimitz (Penn)	Site Supervisor	August 23
Elizabeth Ralph	Magneto Meter Survey	open
Vesta Sarkhosh	Unassigned	open
Matthew Stolper (Mich)	Epigrapher	open
William Sumner (OSU)	Co-Field Director	July 20
Melinda Zeder (Mich)	Paleo. Zoologist	open
	Artist	

TRAVEL: In order to economize on travel costs student staff members are requested to arrange travel by Icelandic to Europe and then by train or if necessary by air to Tehran, layover one day there and thence by bus to Shiraz with a one night layover in Isfahan.. Anyone who knows of an alternate cheap means of travel please let me know. Also any of you who are scheduled to arrive in Tehran at the same time and would like to travel together let me know and I will put you in contact with each other. Anyone who has traveled by train to Tehran please let me know anything you think is useful: fare, schedule, food accomdations etc. All necessary expenses of the trip will be paid by the expedition except luxury meals and recreational or educational stop-overs along the way. I will trust your discretion on these matters. Please keep accurate expense records and save receipts for large expenses.

Everything we can save on travel will make our stay at Malyan more comfortable and productive.

VISA: You will need a multiple entry visa for Iran. Do not get a tourist visa; they cannot be extended beyond three months.

IMMUNIZATION: Have your immunizations entered on an official international immunization card. In addition to the usual shots you should have the cholera series (get these early) and gamma globulin to protect you from hepatitis. This is absolutely essential; we had four cases of hepatitis last season and our productivity suffered greatly, not to mention the real discomfort for those involved. Get the gamma globulin at the last minute since it is only good for three months. This applies to people who have had hepatitis as well as those who have not. If your physician tries to talk you out of it get another physician. You will be reimbursed for the cost of your shots; save receipts.

CLOTHING: Mornings and evenings will be cold and days will be very hot during parts of the season. Long sleeved shirts, blue jeans and a warm jacket are probably the best basic work clothes for everyone. Laundry will be done every other day; towels and bedding will be provided.

WORK SCHEDULE: The work day will be from about 6 a.m. through 1 p.m. on the site. An additional two hours will be scheduled in the late afternoon for recording and processing finds. Every other week a two day trip to Shiraz will be scheduled for half the crew; the expedition will provide lodging but meals will be at your own expense.

SPECIAL SUPPLIES AND EQUIPMENT: Please let me know at once if you will need any special supplies, equipment or publications at the site.

CONTINGENCIES: This is not a final plan. Please feel absolutely free to send me your objections, comments, suggestions, or questions as soon as possible. I am particularly interested in ways of saving on the travel costs which eat up entirely too much of our budget. If our NSF grant is not approved we will still have a season but the whole budget will have to be radically changed.

DIG HOUSE: The enclosed sketch plan of the dig house is simply a tentative first effort. Please look it over carefully and send your comments. Contingencies may force us to live in a village house again this season but with any luck we will have our own house, perhaps not the whole structure but enough to make us reasonably comfortable.

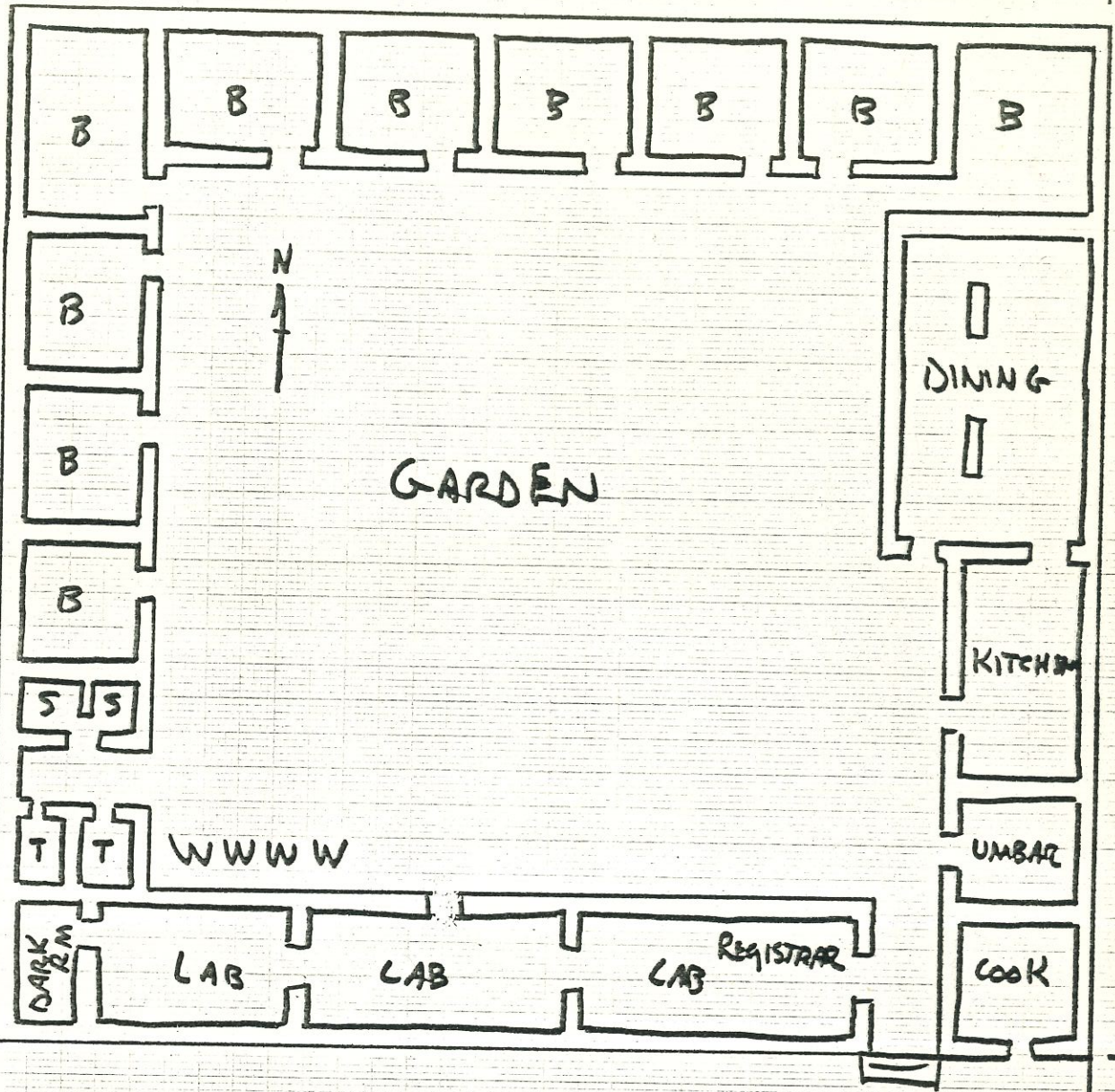
PRE-SEASON PREPARATION: I am presently working on an excavation handbook and recording format. These will be distributed for your comment in a month or so. Meanwhile, if you have any suggestions please send them to me.

The epigrapher is preparing notes on the history of Anshan which will be distributed and I will send you copies of the 1971-72 preliminary report when my off-prints arrive. Any of you who have produced or know of seminar or other papers which might suggest new methods or lines of investigation please send me copies for which I will be very grateful. Never mind if the papers seem incomplete, imperfect or speculative. We have a big exciting problem and it is going to take all of us to make something really worthwhile out of the project.

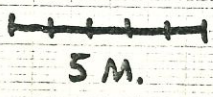
Finally - Please send me addresses and phone numbers where you can be reached between now and your departure date.

PROPOSED DIG HOUSE - MALYAN  
31 M

3/28/74



29M

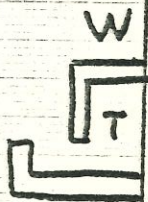


This plan is based on a plan prepared by Iqbal Hassan with additional ideas from plans prepared by Mary Virginia Harris and Susan Wolkow.

- S = SHOWER
- T = TOILET
- W = WASH STAND
- B = BED ROOM

There will be no outside windows. The labs will have windows on both N & S exposures.

SHERD YARD



STAFF MEMO, MALYAN 1976

EXCAVATION SCHEDULE

(A) Preliminary Study Season - 24 July - 19 August

I plan to arrive in Tehran on about 16 July and I hope to begin opening the dig house on 22 July. Projects for this period include; addition to dig house, complete magnetometer survey, complete 1% surface pick-up, study 1974 TUV pottery, continue study of animal bones, conduct geology-mineralogy survey of region and study tablets from 71-72 seasons (in Tehran).

(B) Excavation Season - 20 August - 19 November

Eight operations as follows: 2 in EDD, 2 in TUV (this may be reduced to 1 if it becomes clear that Ilene can complete all of Level III by end of season), 1 in ABC and all the rest in dispersed Kaftari locations, each one a single 10 x 10 to be excavated to the first intact building level with test below. One of the EDD operations will be a 10 x 10 test below the building to fill in the Middle Elamite/Kaftari gap.

(C) Laboratory Season - 20 November - 5 December

Complete processing of finds, plans, sections, and summary interpretation of each operation by the site supervisor.

Staff:

John Alden	Michigan	Site Supervisor
Jack Balcer	OSU	Photographer
Carol Beeman	Michigan	Registrar
Jim Blackman	OSU/Smithsonian	Mineralogy/Geology
Elizabeth Carter	Oregon	Asst. Director/Site Supervisor
Robert Dyson, Jr.	Pennsylvania	Co-Director (last part)
Bari Hill	OSU	Sherdyard-Ceramics
Linda Jacobs	Oregon	Site Supervisor
Joseph Kole	OSU	Site Supervisor
Kit MacLean		Asst. Registrar
Sam Mild	Pennsylvania	Site Supervisor
Naomi Miller	Michigan	Palaeoethnobotanist
Janet Nickerson	OSU	Artist
John Nickerson	OSU	Site Supervisor
Ilene Nicholas	Pennsylvania	Site Supervisor
Elisabeth Ralph	Pennsylvania (MASCA)	Magnetometer Survey
Michael Rosenberg	Pennsylvania	Site Supervisor
Matthew Stolper	Michigan	Epigrapher
William Sumner	OSU	Director
Melinda Zeder	Michigan	Archaeozoologist
Unassigned	Metropolitan Museum	Site Supervisor
Unassigned		Conservationist

All site supervisors and all lab staff should plan to be at the site from 18 August through 5 December although it is possible that some lab staff may arrive as late as September 1st, and some site supervisors may leave a few days early. Staff wishing to participate in the preliminary season may arrive whenever they wish; please notify me as soon as possible whether or not you will be on the site before 18 August and about when you will arrive. We need one or two people to help Beth and Jay with the surveys so if someone would like to come out early please let me know.

Please return the enclosed personal data form and two passport photos quickly.

#### TRAVEL

Most travel will be covered by the National Science Foundation (NSF) grant. That means U.S. carriers when possible. It looks like the budget will allow for round-trip air fare plus \$100; except in special circumstances, this will be the total allowed for the USA-Shiraz round-trip. Some of you will receive part of your air fare from other sources (Matt, Beth, Naomi, that I know of); please let me know how much of the air fare you need from Malyan--the \$100 expense money will be provided in any case. More details later on how to get your tickets.

Because of the NSF grant this season, accounting procedures will be more detailed, so please keep receipts of everything (travel, hotels, etc.) except meals.

#### VISA

You will need a multiple entry visa for Iran. Do not get a tourist visa; they cannot be extended beyond three months.

#### IMMUNIZATION

Have your immunizations entered on an official international immunization card. In addition to the usual shots, you should have the cholera series (get these early) and gamma globulin to protect you from hepatitis. Get the gamma globulin at the last minute since it is only good for three months. This applies to people who have had hepatitis as well as those who have not. If your physician tries to talk you out of it, get another physician. You will be reimbursed for the cost of your shots, so save receipts.

#### CLOTHING

Mornings and evenings will be cold and days will be very hot during parts of the season. Long sleeved shirts, blue jeans, a good sun hat, a warm jacket, work gloves, and sturdy work shoes are probably the best basic work clothes for everybody. Laundry will be done every other day; towels and bedding will be provided.

WORK SCHEDULE

Daily schedule: 6:00 a.m.-1:00 p.m. (6:30 a.m.-1:30 p.m. late in season) on site with workmen. Lunch, then siesta until 3:00 p.m. and then two hours of field planning, section drawing, sherdyard or artifact processing, etc. Last season, we didn't get enough done in the afternoon, probably because it wasn't made as structured and routine as it should have been. This year we will have some sort of afternoon work signal and all able bodied staff will be expected to participate.

SUGGESTIONS

Send your list for supplies or equipment we should ship, plus any suggestions or comments you may have. I will try to mail copies of the new site supervisors' handbook before I leave.

PRESENT ADDRESS

Please let me have addresses and phone numbers where you can be reached between now and your departure.

WEEKENDS

I don't know what kind of wheels we will have on the site, but clearly not enough to take everyone to Shiraz. I am considering the idea of a 2-day/2-night weekend for everyone every other week. We would hire a mini-bus for the occasion. On alternate weeks, we would have a day or two with no afternoon work. Comments?

NEW WORD ON TRAVEL: You can make your own reservations and you will receive a check from OSU to be mailed as soon after 1 July as possible. Fill out the enclosed TRAVEL REQUEST form and mail it to me right away. Fill in name, Social Security number, travel points, date and time of departure, approximate date of return, air fare, \$100 subsistence (line 3). Sign your name. We will fill in the rest. You must use American carriers. You must, repeat--MUST, turn in your ticket at the end of the trip. Also, please keep a record of all non-per diem expenses such as airport taxes, exit taxes, visa and passport fees, etc. We may be able to reimburse you for most of them. The travel points should be your actual points of departure and return (cost not to exceed the amount for Oregon, Detroit, Columbus, or Philly to Tehran and back). State where you want the check mailed.

5/26/76  
WMS/jwn

Enclosures