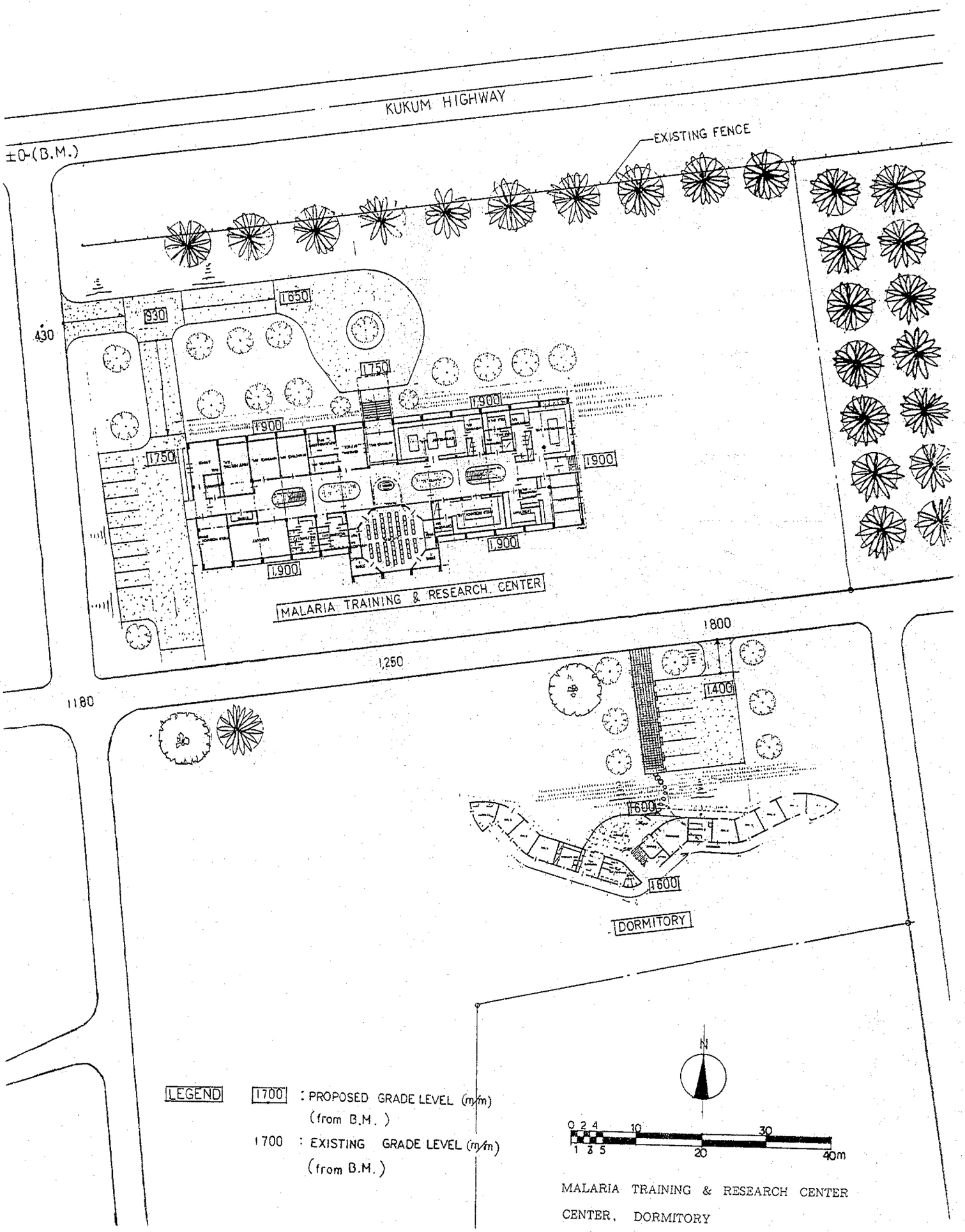
(8) Basic Design Drawings



MALARIA TRAINING & RESEARCH CENTER
CENTER, DORMITORY
PROPOSED SITE MAP

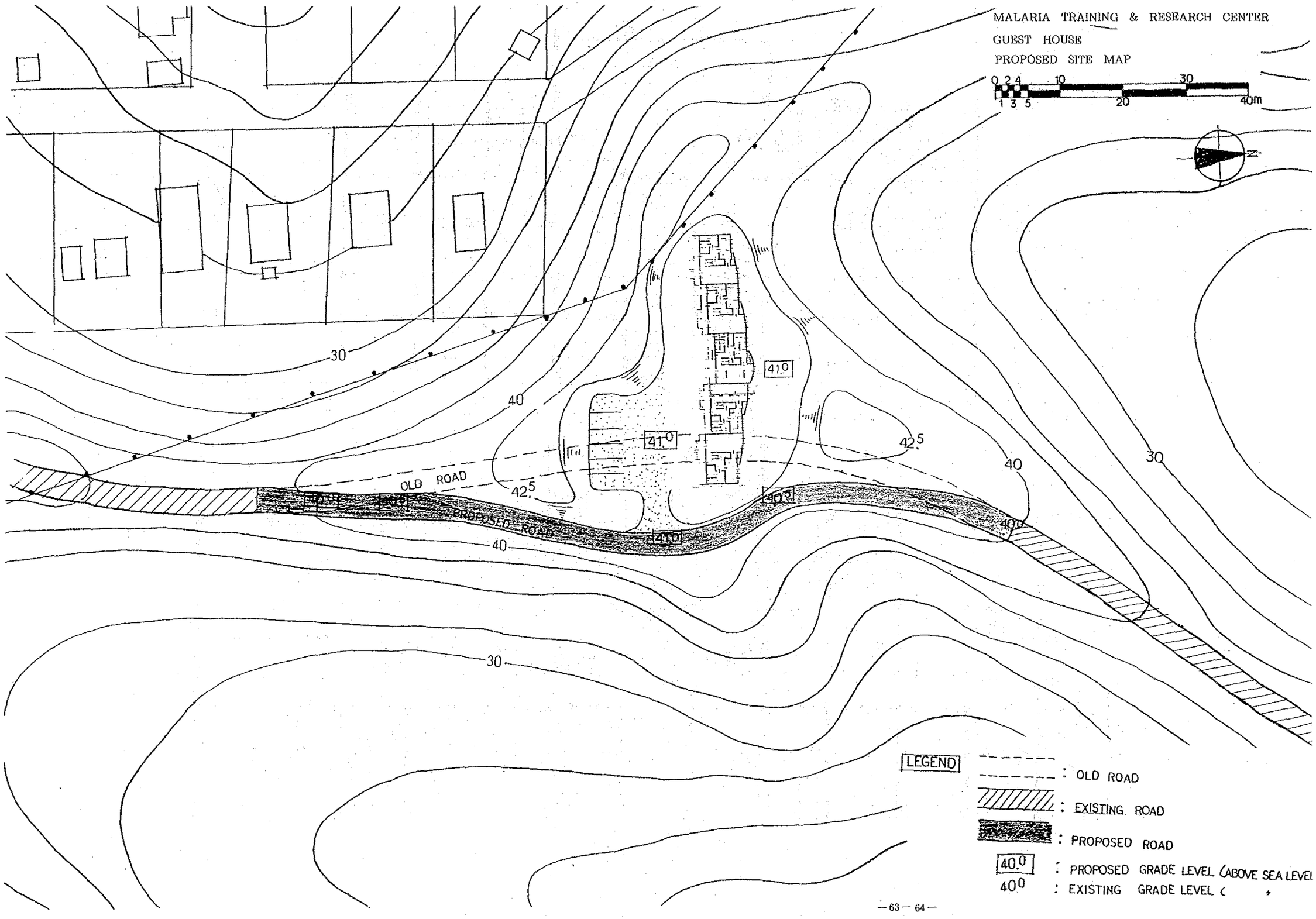
MALARIA TRAINING & RESEARCH CENTER

GUEST HOUSE

PROPOSED SITE MAP

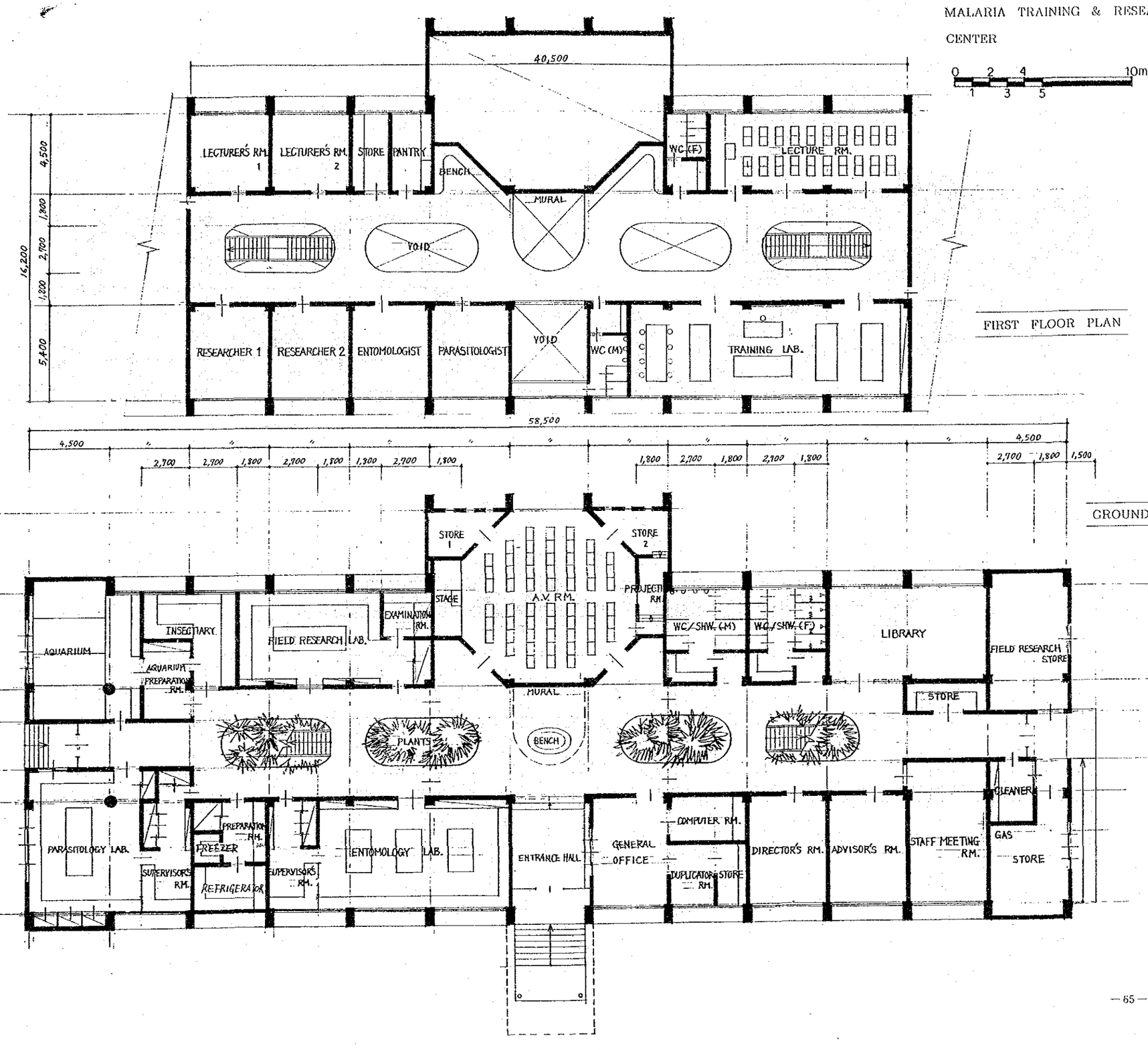
0 2 4 10 30

1 3 5 20 40m



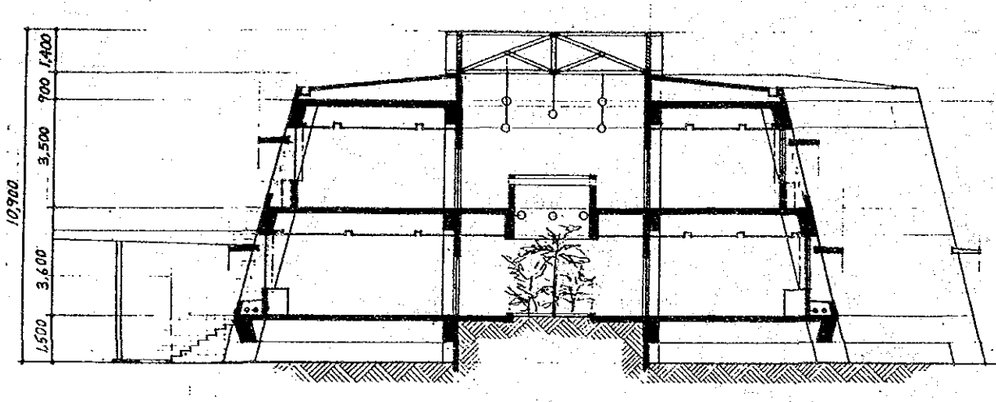
MALARIA TRAINING & RESEARCH CENTER

CENTER

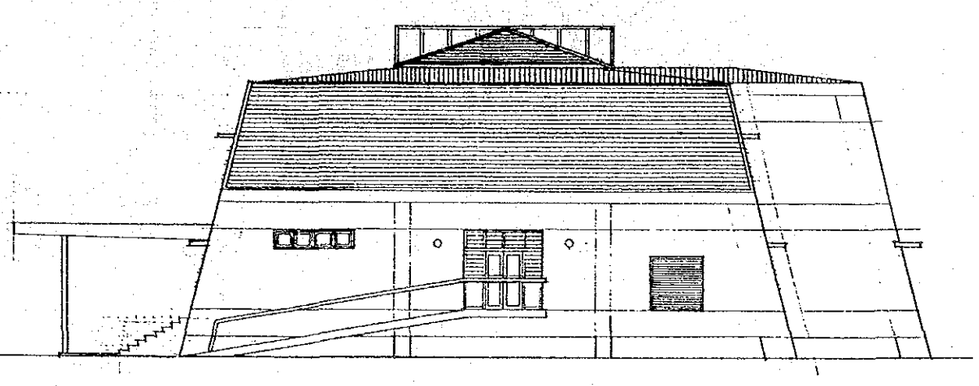


FIRST FLOOR PLAN

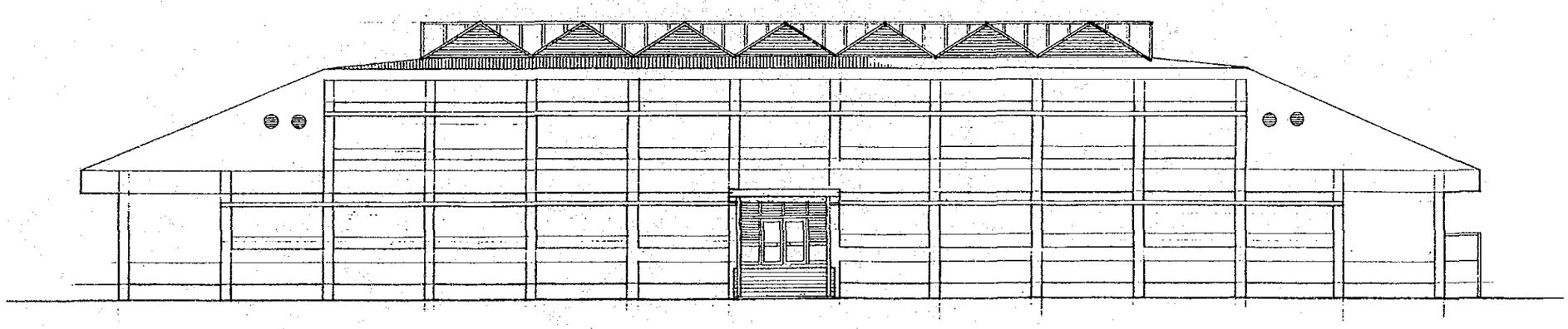
GROUND FLOOR PLAN



SECTION



WEST ELEVATION



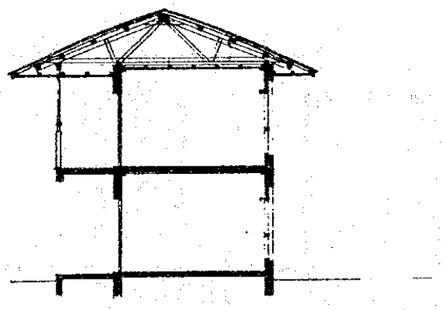
NORTH ELEVATION

GROUND FLOOR PLAN

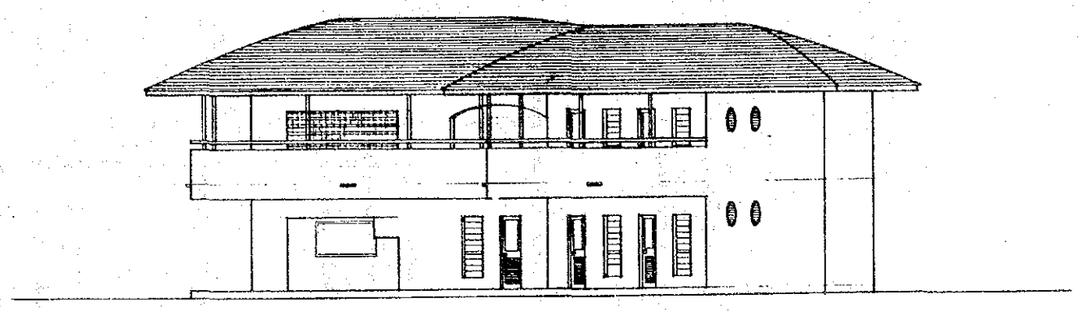
FIRST FLOOR PLAN

0 1 2 3 4 5 10 15m

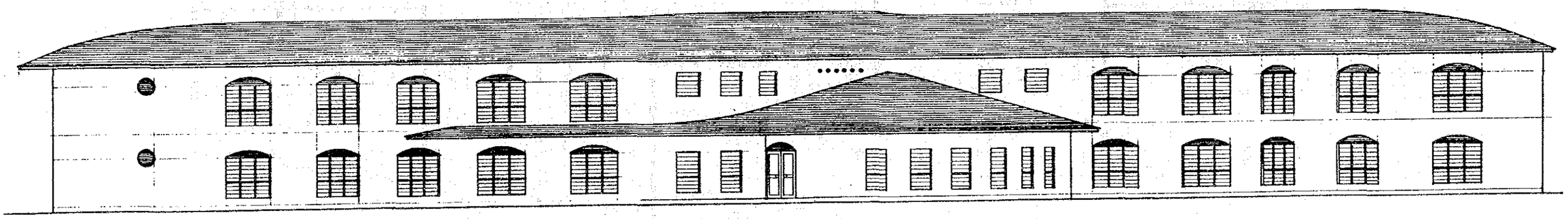
DORMITORY



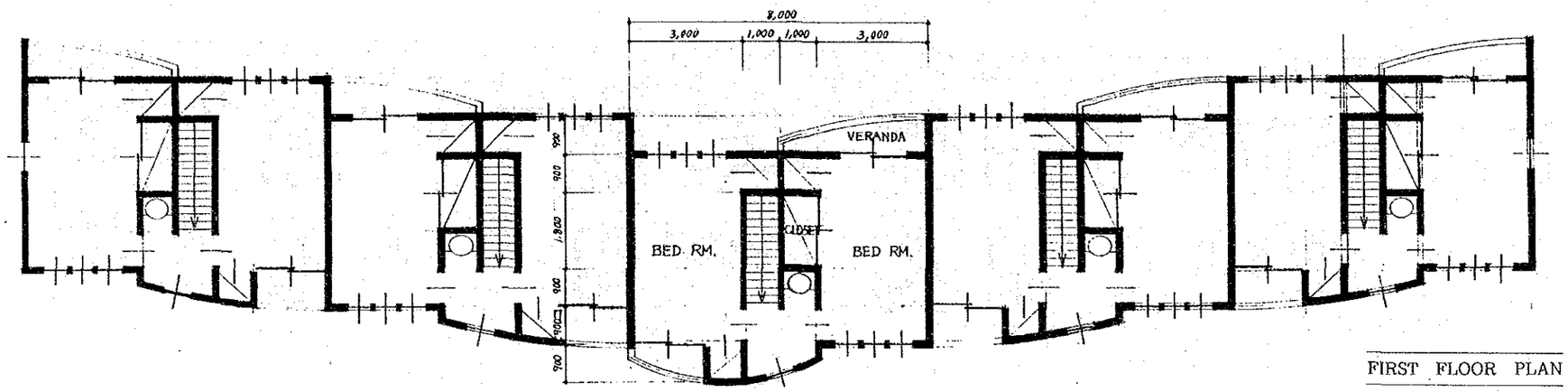
SECTION



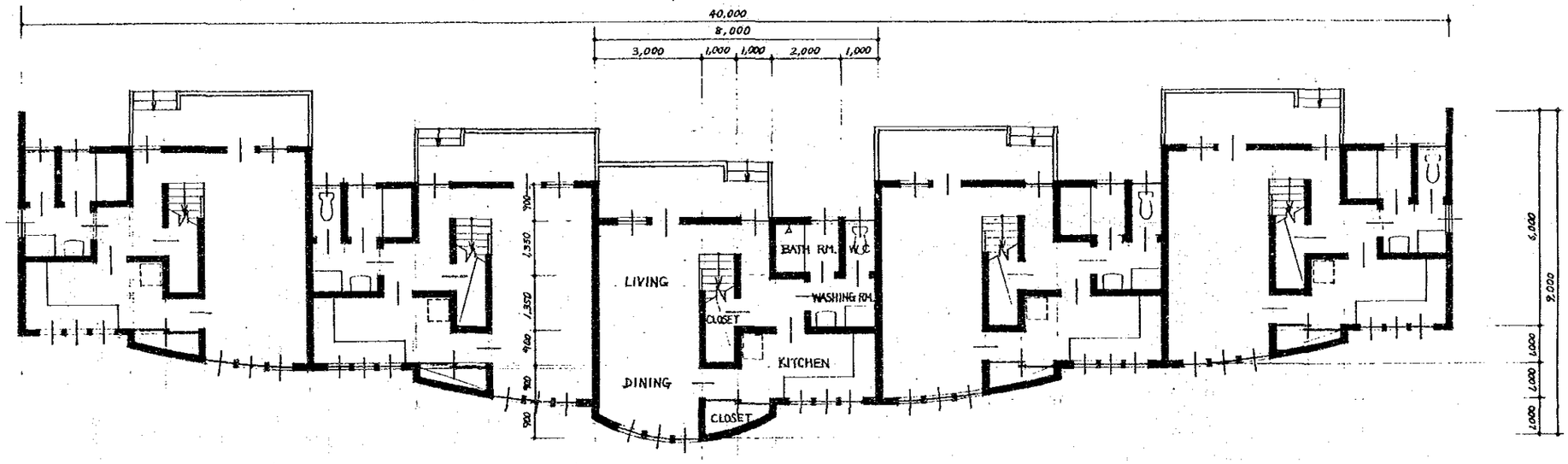
EAST ELEVATION



NORTH ELEVATION



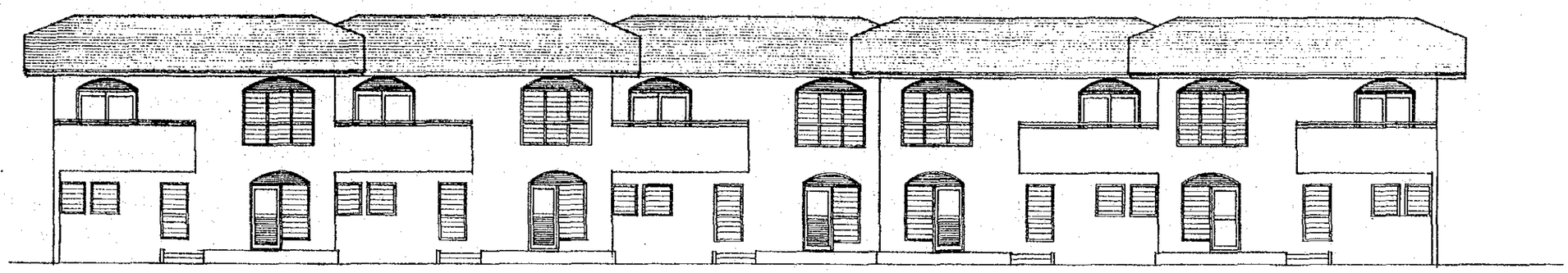
FIRST FLOOR PLAN



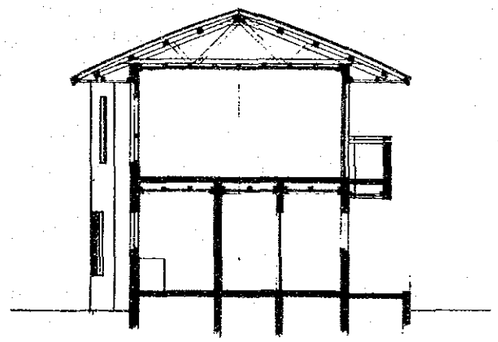
GROUND FLOOR PLAN

0 2 4 10m
1 3 5

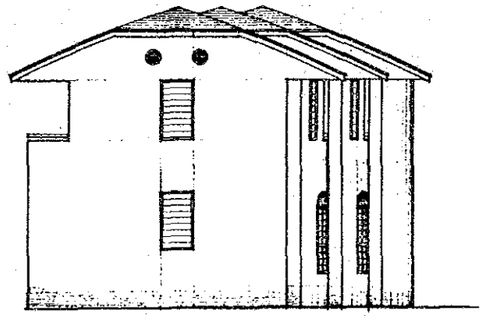
GUEST HOUSE



SOUTH ELEVATION



SECTION



EAST ELEVATION

4－2－3 Equipment Planning

1. Malaria Training and Research Center

A. Parasitology Laboratory

This Laboratory mainly performs basic research for malaria cases. Its activities involve epidemiological analysis on malaria cases, resistance strain for drugs, Chemotherapy, immunological diagnosis, and preventive prophylactic method. The basic design of the equipment should be designed considering above situation.

Equipment List

A－1	Stereo Microsope (Zoom 80X with illuminator and beljar)	1set
A－2	Stereo Microsope Trinocular (10 steps mag.80 X,with illumination and beljar)	1set
A－3	Photomicrographic System (manual rewind 35mm camera, shutter speed 1 ／250 ／sec.with microscope adoptor)	1set
A－4	System Biological Microscope Trinocular (5 lens hole revolver, *eye-piece lens: 10X, 15X(2), objective lens:* 4 X, 10X, 20X, 40X, 100X(oil) with illumination)	1set
A－5	Phase Contrast Attachment (condenser, green interferance filter objective lens: Acro 10X, 20X, 40X, 100X(oil))	1set
A－6	Nomarsky Attachment(condenser; NOMARSKI 1.4)	1set
A－7	Drawing Attachment(for lone nose lens 5 X)	1set
A－8	Refrected Light Flourescence Microscope(TRINOCULAR)	1set
A－9	Lens Drying Cabinet (capacity 70 lit.)	1set
A－10	Dyeing Set	1set

A－11	Electrophoresis Apparatus (Consisting of 5-phoresis chambers with cooling plate 2-power supplies, dyeing instrument, and densitometer)	1set
A－12	Walk-in Refrigerator (2700 X 1800mm area size)	1set
A－13	Refrigerator (1000 litter capacity and + 4deg. C to -10deg. C controlled for medicine and reagents storage)	1set
A－14	Incubator (30 litter capacity and temp. range ambient to 70deg.C)	1set
A－15	Water－Bath (temp.range: ambient to 100deg. C)	2sets
A－16	Water distiller (I. 8 lit./H)	1set
A－17	Desicator(25cm ϕ with cock)	2sets
A－18	Magnetic Stirrer(magnetic 15 ϕ)	1set
A－19	Balance (3000g capacity and 0.1g sensitivity)	1set
A－20	Laboratory Small Items(Including items of ANNEX ' C, c /2' and ANNEX ' C/3' in the request from Solomon Islands)	1set
A－21	Reagents and Consumables (Including items of ANNEX ' A, ANNEX ' C, ANNEX'C/2' andANNEX ' C/3' in the request form Solomon Islands)	1set
A－22	Laboratory Table (Including cupboard, flush-valve, sink and AC outlet with dimensions 3600 X 1500 X 1900mm)	1set
A－23	Typewriter (electronic)	1set
A－24	Filing Cabinet (4 X 4 A 387 (w) X 620 (D) X 1,335 (H) m /m)	1set
A－25	Microtome System (Including rotary microtome, sliding microtome and paraffin preparation apparatus)	1set

A－26 Slide Glass Storage Cabinet (tray: 12pcs, holder:168pcs, tray: 4 racks X 3 lines dimentiion: 455 X 600 X 750) 1set

A－27 Microscopes Storage Cabinet (880(W) X 515 (D) X 1,800 (H) m／m) 1set

B. Entomology Laboratory

This Laboratory mainly performs basic research for malaria vector control and carries out taxonomical analysis of vector mosquitoes, insecticide application test of vector mosquitoes, development of effective and economical insecticide spraying or research of pyrethroide insecticide or growth regulator of vector insect.

Equipment List

B－1	Stereo Microscope(Zoom 80X W／illuminator and beljar)	3sets
B－2	Stereo Microscope Trinocular(10 steps mag 80 X, W／illumination and beljar)	1set
B－3	System Biological Microscope Trinocular (5 lens hock revolver, eye-speed lens: 10X, 15X, 15X(2), objective lens: 4 X, 10X, 20X, 40X, 100 X(oil) W／illumination)	1set
B－4	Photomicrographic System(manual rewind 35mm camera, shutter speed 1／250 1sec. W／microscope adaptor)	1set
B－5	Phase Contrast Attachment(Condenser, green interferance filter, objective lens: Acro 10X, 20X, 40X, 100X(oil))	1set
B－6	*Drawing Attachment(for lone lens* 5 X)	1set
B－7	Dissecting Set	1set
B－8	Lens Drying Cabinet (capacity 70 lit.)	1set
B－9	Slide Glass Cabinet (tray: 12pcs, holder:168pcs, tray:4 racks X 3 lines dimention: 455 X 600×750)	1set
B－10	Microscope Storage Cabinet(880 (W) X 515 (D) X 1,800 (H) m ／m)	1set
B－11	Dyeing Set	1set
B－12	Ice Maker (15kg／day of capacity)	1set
B－13	Dry－Ice Maker (ϕ 125 X 180mm)	1set

B−14	Filing Cabinet(4 X 4A)	1set
B−15	Portable Ice Box (Consisting of 26 lit. 16 lit. and 6 lit.)	2sets
B−16	Water Distiller (1.8 lit./H)	1set
B−17	Insect Storage Cabinet(600 X 500 X 2,100mm)	1set
B−18	Insect Cage(300 X 300 X 300mm X 10pcs)	1set
B−19	Insect Cage Kit (pipe and mosquito net)	1set
B−20	Laboratory Small Item	1set
B−21	Reagents and Consumables	1set
B−22	Laboratory Table	1set
B−23	Typewriter(electronic)	1set

C. Training Room

This room is designed for 40 trainees of microscopist.

Equipment List

C－1	Stereo Microscope	20sets
C－2	Binocular Microscope	2sets
C－3	Multiviewing Attachment (for 5 persons)	1set
C－4	Dualviewing Attachment (for 2 persons)	1set
C－5	Biological Microscope	20sets
C－6	Phase Contrast Attachment	1set
C－7	Dyeing Set	5sets
C－8	Lens Drying Cabinet(80 lit.)	2sets
C－9	Slide Glass Storage Cabinet(1,800 slide glasses of capacity)	1set
C－10	Microscope Storage Cabinet(1,800 X 515 X 1,800)	2sets
C－11	Laboratory Small Items (Including items of ANNEX 'C', ANNEX 'C／2' and ANNEX 'C／3' in the request from Solomon Islands)	1set
C－12	Reagents and Consumables (Including items of ANNEX 'A', ANNEX 'C', ANNEX 'C／2'' ANNEX 'C／3' in the request from Solomon Islands)	1set
C－13	Laboratory Table (L) (Including flush valve, sink and AC outlet(3,600 X 1,500 X 800)	5sets
C－14	Laboratory Table (S) (Including flush valve, sink and AC outlet(2,400 X 1,500 X 800)	1set

D. Field Research Laboratory

This Laboratory performs research of the life cycle of vector mosquitoes, research of mosquito breeding places, research and analysis of mosquito biting behavior.

Equipment

D－1	Light Trap(AC／DC Black Light)	6sets
D－2	CO^2 Mosquito Trap(3 VDC)	6sets
D－3	Net Trap	1set
D－4	Rat Cage(4 rooms in one cage made by aluminium and with drawer 340 X 460 X 215)	1set
D－5	Aspirator	100pcs
D－6	Mosquito Catching Tube(30 ϕ X 60mm X 200pcs)	1set
D－7	Dissecting Microscope (10 X, 20X, with illumination)	2sets
D－8	Portable Microscope(20X － 600X Binocula)	2sets
D－9	Medical Camera(medical attachment 120mm f4, 35mm, 50mm f1.4 micro zoom lens)	1set
D－10	Topical application Kit	1set
D－11	Ultra－Violet Lamp (DC L－365mm, 253mm)	1set
D－12	Ultra－Violet Lamp (AC－365mm, 253mm)	1set
D－13	Portable Weather Instrument Set	2sets
D－14	Camping set	3sets
D－15	Portable Generator(240V／50Hz 3／1 KVA)	2sets

D−16	Transceiver	6sets
D−17	Laboratory Small Items and Reagents	1set
D−18	Laboratory Table (2,400 X 1,500 X 800mm including flush valve, sink and AC outlet)	1set

E. Larvivorous Fish Room

This room performs study of larvivorous fish and researching of biological control.

Equipment List

E− 1	Small Aquarium (600 X 300 X 360mm)	20sets
E− 2	Aquarium Water Cleaner	20sets
E− 3	Air Pump for Aquarium	20sets
E− 4	Air Pump for Pool	5set
E− 5	Fish Firming Small Items	1set

F. Audio Visual Room

This room performs educations and trainings using audio visual systems and is disigned for 40 trainees.

Equipment List

F－1	16mm Film Projector(with trolly and 12 spare lamps)	1set
F－2	35mm Slide Projector(with trolly and slide tray)	1set
F－3	Overhead Projector (OHP) (with trolly)	2sets
F－4	Screen for Overhead Projector(stand type)	2sets
F－5	Screen for Film ／Slide Projector(stand type)	2sets
F－6	Transparency Maker	1set
F－7	Transparency Set(100 pcs. ／set)	20sets
F－8	Video Tape Recorder(VHS)	1set
F－9	Video Color Monitor(VHS 20")	1set
F－10	Video Camera (VHS)	1set
F－11	Audio Visual Rack	1set
F－12	35mm Slide Cabinet	1set
F－13	16mm Video Tape Cabinet	1set

G. *Recording Room*

This room perform recording and printing works including micro computer system

Equipment List

G－1	Microcomputer(display, printer, 512KB, Science calculation software)	1set
G－2	Typewriter(electronic)	1set
G－3	Duplicator	1set
G－4	Plain Paper Copier(A3, A4, B4, B5)	1set
G－5	Filing Cabinet(4 X 4A)	2sets

H. General Purpose Equipment

The transportation equipment is designed to give mobilities especially to field research works.

Equipment List

H－1	4－Wheel Drive Car(2,000cc Diesel)	1set
H－2	4－Wheel Drive Car(350 － 400cc)	1set
H－3	Motor Cycle(125cc)	2sets
H－4	Fibre Glass Boat with Outboard	1set
H－5	Transceiver(antena, power supply, 20W VHF)	3sets

I. Provincial Laboratory

This equipment is designed for 5 places of Provincial Malaria Laboratories.

Equipment List

I－1	Solar-cell System (Consisting of solar-cell, charging control unit and 12V 100 AH storage battery)	5sets
I－2	Biological Microscope	5sets
I－3	Lens Drying Cabinet(351)	5sets
I－4	Dyeing Set	5sets
I－5	Ballance(300g／10mg)	5sets
I－6	Work Table(1,500 X 760 X 740)	5sets
I－7	Chair(with the back and caster)	5sets
I－8	Filing Cabinet(4 X 4 A)	5sets
I－9	Portable Typewriter	5sets
I－10	Portable Generator(1 KVA)	5sets
I－11	Laboratory Equipment and Regent	5sets

J. Peripheral Laboratory

This equipment is designed for 44 places of Peripheral Malaria Laboratories.

Equipment List

J－1	Solar－Cell System(with controller, 12V 100AH, with battery)	44sets
J－2	Biological Microscope	44sets
J－3	Laboratory Equipment and Reagent(including dyeing set)	44sets

K. Spray Equipment and Insecticide

A large scale trial of insecticed are carried out for investigating effective and economical method.

Equipment List

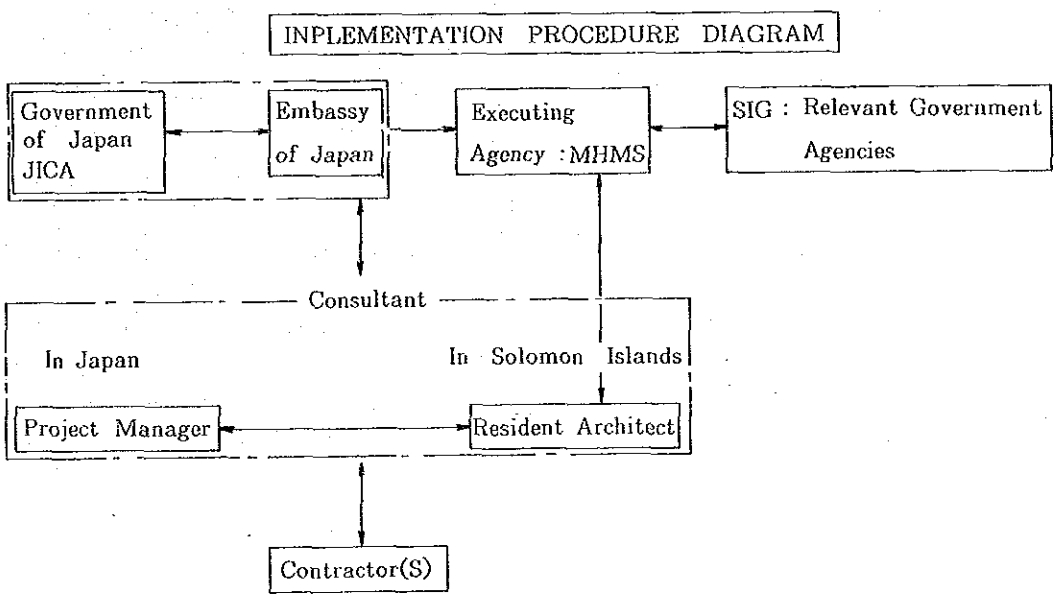
K－1	Spray Apparatus	20sets
K－2	Protection Wear	200sets
K－3	Protection Boots	200sets
K－4	Protection Mask(low density less than 1,000ppm)	200sets
K－5	Fenitrothion 40% Water Dispersible Powder	40tons
K－6	Fenitrothion 50% Emulsifable Consentrate	1.3 Klit.
K－7	Cholin Esterase Kit	10sets

Chapter 5 PROJECT IMPLEMENTATION

Chapter 5 PROJECT IMPLEMENTATION

5-1 Project Implementation Procedure

Executing agency is MHMS.
After signing of Exchange of Notes(E/N), a Japanese consultant will sign the agreement with the Government of Solomon Islands (SIG) for the consulting services on the detail drawings and supervision of the Project. The SIG will call tender for the Project to Japanese construction firms with the assistance of the consultant. After the awarding of the tender, the SIG will sign the contract for the Project with the accepted tenderer. After signing of the contract, the contractor will procure the construction materials and the equipment under the supervision of the consultant. The materials and the equipment, except those materials procured locally, will be transported from other countries. In parallel with the first purchasing of the required materials, temporary work and earth work will start at the construction site, and so on. In proceeding with these works, the contractor will keep himself in close communication with the SIG with the assistance of the consultant. After the Project has been completed , the facilities and the equipment shall undergo the final inspections by the consultant and be handed over to the SIG.



Figure— 3

5-2 Scope of Work

5-2-1 Scope of work by the Japanese side

(1) To construct Malaria Training and Research Center
(2) To construct accommodation facilities for staff and trainees
(3) To supply the equipment and materials for training and research
(4) To transport the equipment and materials to the site
(5) To extend consulting services for the detail drawing and supervision for the Project

5-2-2 Scope of work by the Solomon Islands side

(1) General
(a) To ensure prompt unloading, tax exemption, customs clearance at port of disembarkation in Solomon Islands
(b) To accord an exemption from the payment of all customs duties, internal taxes and other fiscal levies which may be imposed on;
1) any payments made by the consultant and/or the contractor within the country of Solomon Islands for the purpose of carrying out the Project
2) any materials, equipment and supplies brought into Solomon Islands for the purpose of carrying out the Project
(c) To take measures necessary for the banking arrangement and the issuance of the authority to pay and bear commissions to the Japanese foreign exchange bank for the banking services based on the banking arrangement
(d) To accord Japanese nationals whose services may be required in connection with the supply of products and the services under the agreement and the contract such facilities as may be necessary for their entry into Solomon Islands and stay therein for the performance of their work
(e) To secure any application and approval which may be necessary according to the internal laws and regulations
(f) To maintain and use properly and effectvely the facilities constructed and equipment and materials purchased under the Project

(2) Access road

(a) To construct the road connecting the main road with the site, if necessary

(3) Obstacles on the construction site

(a) To remove the obstacles on the site and underground thereof

(4) Services

(a) Power : To extend power cable to the site both temporary and permanent up to WHM, including transformer

(b) Telephone : To extend trunk line to the main distribution frame, both temporary and permanent

(c) Water : To extend city water supply line to the main water gauge

(5) Fencing

(a) To design and construct the fences and gates, if necessary

(6) Gardening

(a) To arrange and construct gardens, if necessary

(7) Furniture

(a) To provide sofas, tables, chaires, lockers, carpets, curtains etc., if necessary

5-3 Detail Design and Supervisory Services

The services of the Consultant for Detail Design and Supervision takes place following the procedures mentioned hereunder :

(1) Submission of this Report to the Government of Solomon Islands and the Government of Japan
(2) Approval of the Government of Japan for the Project
(3) Exchange of Notes between the Government of Solomon Islands and the Government of Japan concerning the grant aid for the Project
(4) Signing on the agreement on the consulting services for the Project by and between the Government of Solomon Islands and the Consultant

5-3-1 Detail Design and Assistance for Tendering

(1) According to the Basic Design, the consultant prepares detail design and tender documents
(2) Tenderings and Contracts
The consultant assists the Government of Solomon Islands on the tenderings and the contracts, tender notice, prequalification if any, preparation of contract documents, issuance of tender documents, evaluation of tenders, etc.

5-3-2 Supervision

The consultant will render the supervisory services as follows :

(1) To check and approve shop drawing, samples, materials, schedules and other matters submitted by the contractors
(2) To supervise the construction works
(3) To direct clerk of works
(4) To handle work change on request from the client
(5) To inspect and certify the contractor's bill for interim payments
(6) To inspect and certify the completion of the Project and of final payment
(7) Others

5-4 Construction Implementation

Before drafting the overall schedule of the Project, the following matter will be studied :

(1) Schedule of the procurement of materials and equipment, especially those to be imported
(2) Schedule of procurement of labor
(3) Arrangement of the time of execution of the works of Solomon Islands side

The fact that there is the wet season from November to April must be taken in consideration and the necessary precaution must be taken.
Prior to and during the construction work, the contractor will have a close communication, by the mediation of the consultant, with the officials concerned of the Governmrnt of Solomon Islands.

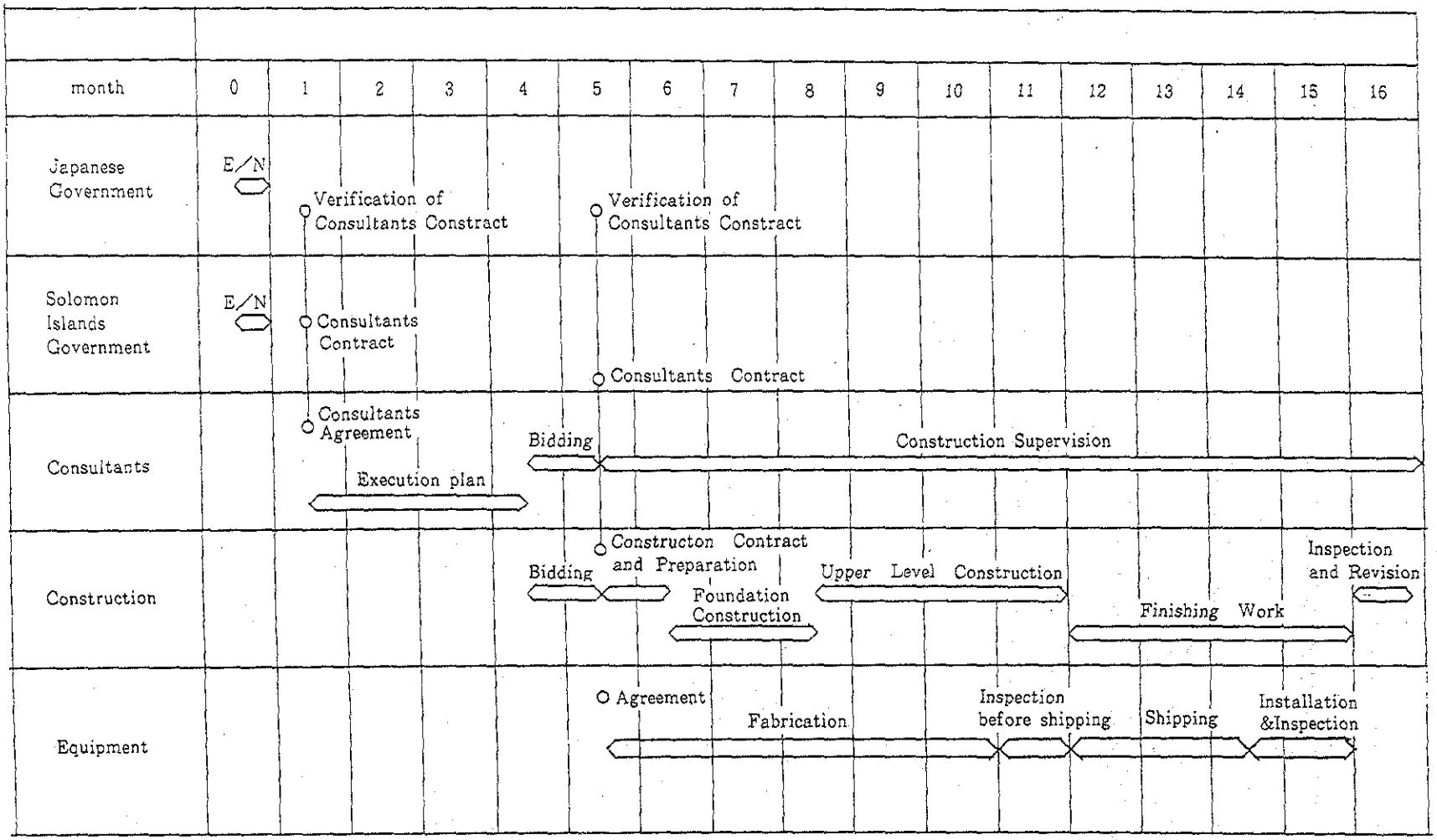
5-5 Procurement

By the study of the procurement schedule of construction materials and equipment, the followings are among the items taken in consideration as criteria.

- Quality
- Price
- Term of delivery
- Maintenance

The procurement schedule of principal materials and equipment classified by country is shown in Table 5-1 .
The proportions of the sum of price of construction materials and equipment classified by the countries to the total price of materials and equipment are shown in Table 5-2 .

Tentative Progress Chart of the Project



Table—6

5-6 Implementation Schedule

The execution of the Project will be completed in 16 months. The term of execution mentioned above will be composed of 3.5 months for the preparation of detail drawing and construction document phase, 1 month for the bidding and contract phase and 11.5 months for the construction phase and procurement of the equipment.
The tentative progress chart is shown in Table-6.

5-7 Approximate Project Cost to be born by the Government of Solomon Islands

Approximately 74,500 SID will be born by the Government of Solomon Islands. The cost born by the Government of Solomon Islands will consist of the following items :

	(SID)
1) Site clearance	3,200
2) Gate and fences	17,000
3) Leading-in and connection of power cable , water supply and telephone lines	12,200
4) Landscaping	34,600
5) Furniture	7,500
Total	74,500

5-8 Management and Administration Costs

After the Project is handed over to the Government of Solomon Islands the facilities will be operated by the MHMS. The annual expenditure, which consists of salary, electricity etc., is expected to be approximately 205,000SID.

Table-7. Management and Administration Costs

1) Salary and wage	152,000
2) Electricity	22,000
3) Water	3,000
4) Gas	9,000
5) Others (10% of total expenses for Items 1 to 4)	19,000
Total	205,000

The amount of the expected annual expenditure of the facilities for power, water and gas is estimated approximately 37,000SID.

The Government of Solomon Islands is requested to provide enough fund to cover such amount of expenditure.

Table 5-1. Schedule for the procurement

Principal Materials &Equipment	Procured in		
	Solomon Islands	Japan	Third Country (Australia)
Cement	○		
Reinforcing Bar		○	
Timber(Structural)			○
Timber(Finishing)	○		
Concrete Block	○		
Asphalt Shingle			○
Asphalt Waterproofing			○
Spray Coating for Outside Wall		○	
Floor Finishing (Vinyle Tile, Tile)	○		
Ceiling Finishing Gypsum Board Rock Wool Board Wood Wool Board	○		
Wall Vinyle Paper		○	
Painting	○		
Sash			○
Glass 1 except the glass for the louver window		○	
Glass 2 for louver window	○		
Wooden Door	○		
Plumbing Pipe	○		
Sanitary Fixture	○ (except urinal)		○ (urinal)
Kitchen Equipment		○	
Solar Collector	○		
Conduit Pipe	○		
Cable	○		
Lighting Fixture	○		
Receptacle Outlet Switch	○		
Distribution Board		○	
Airconditioner(wall mount type)	○		
Airconditioner(package type)		○	
Ceiling Fan	○		
Equipment		○	

Table 5-2. Portion of the procurement

Type of Work	Portion of the procurement at			Sub- Total (%)
	Solomon Islands	Japan	Third Country (Australia)	
Architectural Works	71.5	24.1	4.4	100
Electrical & Mechanical Works	69.9	27.3	2.8	100
Equipment	0	100	0	100
Total (%)	35.4	62.5	2.1	100

Chapter 6 PROJECT EVALUATION

Chapter 6 PROJECT EVALUATION

The project is intended to achieve successful execution of the Malaria Control Project through construction of a Malaria Trainig and Research Center in Honiara and supply of equipment and insecticides to help accomplish the goals of the AMP, which will eventually contribute to the development of the culture and economy of the Solomon Islands.
The Project is expected to have the following direct effects with reference to the various problems encountered by the AMP.

(1) The construction of a training center will help drastically improve the quality of ongoing training and enable the commencement of a new curriculum. The improved quality and quantity of training will contribute to inproving the quality of the staff fighting malaria and to executing malaria countermeasures efficiently through better mutual understanding between the staff and the people of the Islands.

(2) The strengthening of an entomological research laboratory will make ecological and physiological research on vector mosquitoes possible. It will also contribute significantly to preventing the breeding of mosquitoes in the short run, and the development of new technologies for the eradication of malaria in the long run.

(3) The realization of a parasitology research laboratory will enable the execution of verification tests and then will help improve the results of blood examinations. Research on malaria parasites will also enable accurate diagnosis and treatment.

(4) Supplying equipment to 44 provincial and peripheral laboratories will lead to expanssion of examination networks and to the improvement of the quality of examinations. It will also facilitate the detection of malaria cases in their early stages and, therefore, will allow an early treatment, thus helping reduce the SPR.

(5) Supplying of insecticides will help improve the current insufficency of these materials in both quality and quantity. This would help to control vector mosquitoes and thus, decrease the SPR.

By malaria control, the Project is expected to have the following indirect effects on a national level.

(1) A decrease in malaria cases will help provide a favorable basis for the development of the tourist industry.

(2) A decrease in malaria cases and the resulting decrease in complications will help save huge expenditures for countermeasures against malaria and its medical costs.

(3) The active involvement in research and training as well as international conferences on malaria and other tropical diseases will provide the Center with opportunities for playing a central role in health research activities in the region of Oceania.

(4) Malaria cases and its complications will cause a tremendous loss of labour which is more remarkable at the village level.
A decrease of malaria, therefore, will bring about the increase in labour force, thus leading to the increased production.

For these direct and indirect effects of the Project to materialize on a full scale, it is indispensable that the necessary measures be taken by the Government of the Solomon Islands.

- Organization: It is the AMP that administrates and operates the facilities and the equipment. The Government of Solomon Islands has been carrying on the Malaria Eradication Program since 1970.
  Especially AMP was organized in 1980 for enforcing the malaria control program. The Central Malaria Laboratory (CML) has been, since then, in operation and thus the AMP's organizations have been well established even to their small units at a Provincial level with such activities as insecticide spraying, drug administration, etc. Apparently, the organization is capable of administrating and operating the facilities and the equipment.

- Technical level: The activities of the AMP have been assisted under the strong guidance and advice by WHO since its foundation.
  It is expected that the facilities and equipment provided under the grant aid will be fully utilized in case this Project be assisted by the technical cooperation by the Government of Japan for a manpower training and basic research activities against malaria which are most essential in this country.

• Budget: Expected annual expenditures on the facilities for power, water and gas are estimated at approximately 37,000 SID, which accounts for about 1.6% of the budget forecasted for the AMP for 1987. It is deemed that the expenditure will not exceed the limit to be allocated.

Chapter 7 CONCLUSION AND RECOMMENDATIONS

Chapter 7 CONCLUSION AND RECOMMENDATIONS

The prevalence of malaria is the biggest health problem in the Solomon Islands, and it has a considerable effect on its cultural and economic development.
The Government of the Solomon Islands considers the measures against malaria one of the most important tasks for the nation and is attempting to implement various mesures. However, the lack of human resources as well as financial problems has obstructed the government's efforts to produce positive results.
The Government of the Solomon Islands, therefore, anticipates that the Project will be quite effective in overcoming all these problems.
The Project is also expected to contribute to malaria control not only in the Solomon Islands, but in the whole Oceanian region through the efforts of WHO.

The Government of the Solomon Islands is ready for allocating to the AMP a sufficient mumber of staff members for the execution of this project. WHO is also ready to provide technical assistance and training.
Under these circumstances, it is considered reasonable to execute the Project using grant aid of the Government of Japan.

However, the construction of a Malaria Training and Research Center, which is the main core of the Project, will not necessarily contribute directly to malaria control. Instead, it will inderectly help achieve the goals through effective performance of training and research. Consequently, it is required that the following measures be preferably taken in:

(1) Technical training of malaria research staff members in Japan or in the third country:
Through the technical training in Japan for the local staff engaged in research activities against malaria, their technical level will be upgraded and thus effective utilization of facilities and equipment granted will be secured.

(2) *Technical cooperation from Japan:*
The absence of basic research for the development of appropriate technology for malaria control is often pointed out as a problem in the Solomon Islands. In this field, therefore, the Government of the Solomon Islands has increasing expectations for technical cooperation from Japan.
Hence, with the cooperation and counsel of WHO, which has been involved in research and assistance on malaria countermeasures in the Solomon Islands for over twenty years, the following modes of cooperation are desired:

(a) Dispatch of experts for entomological and parasitological research:
Experts will be sent to the Solomon Islands to collect basic data in the above fields, analyze them thus developing the appropriate technology.

(b) Evaluation and guidance of AMP activities (centered on the achievements obtained in the Center):
In order to enhance efficient execution of the AMP and to realize malaria control, the results of research and training should be utilized effectively.
For that purpose, evaluation and guidance will be carried out with the cooperaion of WHO, on a regular or irregular basis to grasp the general situation about malaria control in the Solomon Islands.

In implementing the Project, the Government of the Solomon Islands is requested to undertake the following measures.

(1) Appropriation of sufficient funds and allocation of manpower required for the operaion of the Center.
(2) In order that this Project may take effect, the multilateral coordination should be secured among "Cooperation by the Government of Japan", "Guidance by WHO" and "Self-efforts by the Government of Solomon Islands".

APPENDIX

Appendix 1 Data of Field Survey

1—1 Minutes of Discussions (Copy) I (B/D)

MINUTES OF DISCUSSIONS
ON
THE PROJECT FOR THE CONSTRUCTION OF MALARIA TRAINING AND RESEARCH CENTER IN SOLOMON ISLANDS

In response to the request of the Government of Solomon Islands, the Government of Japan decided to conduct a basic design study on the project for the construction of Malaria Training and Research Center, (herein after referred to as "the Project"), and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to Solomon Islands the Study Team headed by Dr. Manabu Sasa, President of the Toyama Medical and Pharmaceutical University, from May 11 to June 3, 1986.

The Team had a series of discussions on the Project with the officials concerned of the Government of Solomon Islands headed by Mr. Philip Funifaka, Permanent Secretary, Ministry of Health & Medical Services and conducted a field survey in Honiara and others.

As a result of the study, both parties agreed to recommend to their respective Government that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

May 21, 1986.

Dr. Manabu Sasa
Leader,
The Basic Design Study Team,
JICA

Mr. Philip Funifaka
Permanent Secretary,
Ministry of Health &
Medical Services

1. The objective of the Project is to contribute to the control of malaria by accommodating facilities for training and research with necessary equipment.

2. The site of the Project is located at Kukum Golf Course adjacent to the site of the projected new National Hospital.
(See ANNEX I)

3. The activities of the Malaria Training and Research Center are as follws:

(1) To collect and analyze data and information concerning malaria control.

(2) To conduct necessary tests and analyses in entomology and parasitology to develop appropriate and effective methods for malaria control.

(3) To conduct training in technology necessary for malaria control.

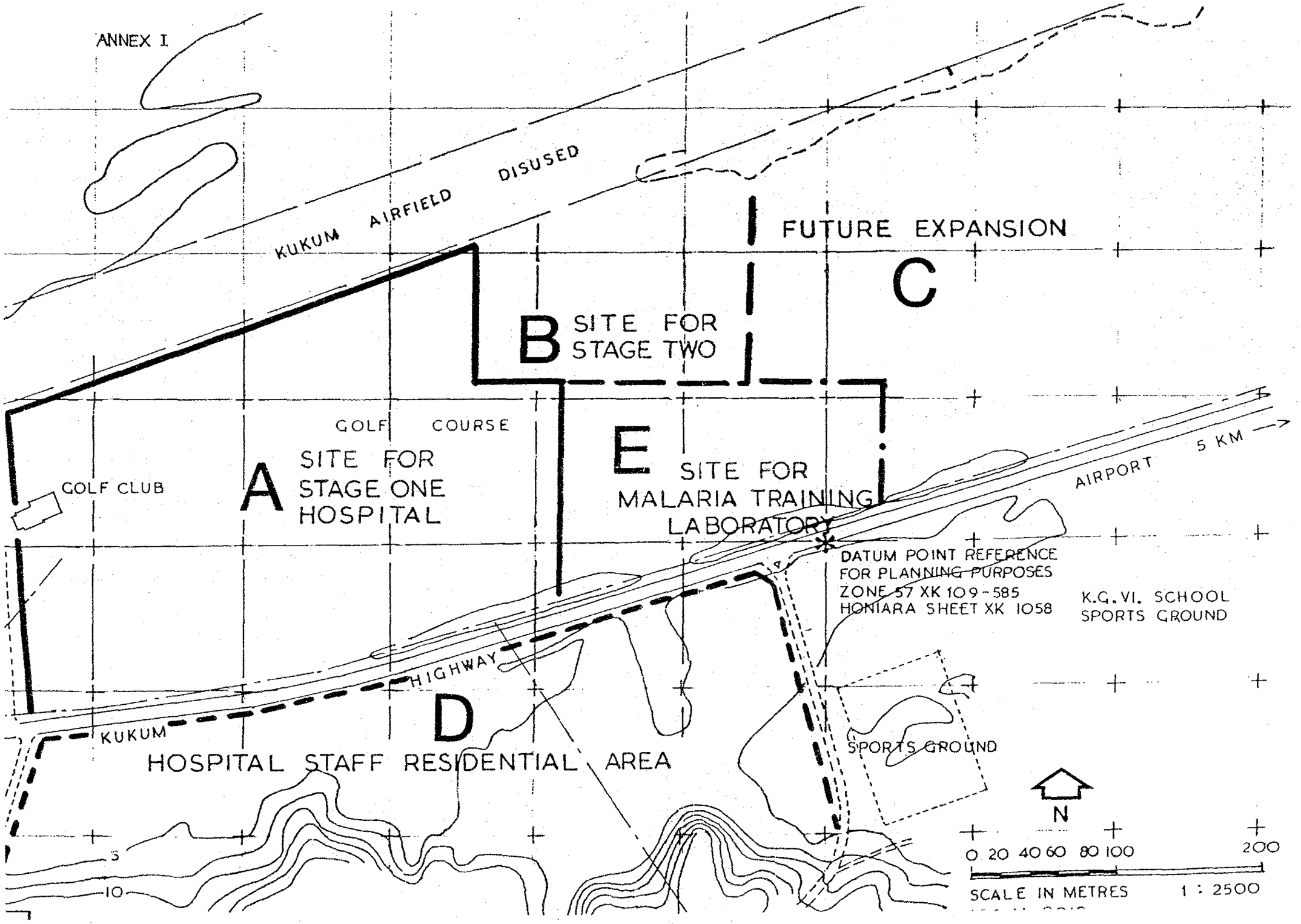
4. Anti-malaria Division under the Under Secretary of Health Improvement, Ministry of Health and Medical Services is responsible for the administration and execution of the Project.

5. The Japanese Study Team will convey to the Government of Japan the desire of the Government of Solomon Islands that the former takes necessary measures to cooperate by providing the building and other items listed in ANNEX II within the scope of Japanese Economic Cooperation Programme in Grant form.

6. The Solomon Islands side has understood Japan's Grant Aid System explained by the Team which includes a principal of use of Japanese Consultant Firm and Japanese General Contractor for the construction.

7. The Government of Solomon Islands will take necessary measures listed in ANNEX III on condition that the Grant Aid would be extended to the Project.

ANNEX I



JICA

A4

ANNEX II

Items requested by the Government of Solomon Islands are as follows:

1) Training and research center composed of:

a) Entomology laboratory
b) Parasitology laboratory
c) Supervisors' rooms for above
d) Entomologist room
e) Parasitologist room
f) Adviser's room
g) Insectiary
h) Aquarium
i) Training laboratory
j) Lecture theatre/Conference room
k) Lecturers' rooms
l) Trainees' dormitory
m) Office
n) Meeting room
o) Computer room
and other necessary facilities

2) Equipment and Materials necessary for:

a) Training and research center
b) Provincial and peripheral laboratories
c) Insecticide trial
d) Others

ANNEX III

The Government of Solomon Islands will take necessary measures on the following matters:

1) To secure approval of building plan.
2) To secure a lot of land for the Project.
3) To clear, fill and level the site before commencement of the construction.
4) To undertake incidental out-door works such as gardening, fencing, gates and exterior lighting in and around the site.
5) To provide facilities for distribution of electricity, water supply, telephone, drainage and other incidental facilities to the Project site.
   a) Electricity distribution line to the site.
   b) City water distribution main to the site.
   c) Drainage city main to the site.
   d) Telephone trunk line to the main distribution panel of building.
   e) General furniture such as carpets, curtains, tables, chairs, and others.
6) To bear commissions to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement.
7) To ensure prompt unloading, tax exemption, custom clearance at Port of disembarkation in Solomon Islands.
8) To accord Japanese Nationals whose services may be required in connection with the supply of products and the services under the verified contract such facilities as may be necessary for their entry into Solomon Islands and stay therein for the performance of their work.
9) To maintain and use properly and effectively the facilities constructed and equipment purchased under the Grant.
10) To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for the transportation and the installation of the equipment.

1－1 Minutes of Discussions (Copy) II(D/F)

MINUTES OF DISCUSSIONS

THE DRAFT FINAL REPORT OF THE BASIC DESIGN STUDY ON THE CONSTRUCTION PROJECT FOR THE MALARIA TRAINING AND RESEARCH CENTER IN THE SOLOMON ISLANDS

In response to the request of the Government of the Solomon Islands for Grant Aid for the Construction Project of the Malaria Training and Research Center (hereinafter referred to as "the Project"), the Government of Japan decided to conduct a basic design study on the Project and entrusted the study to the Japan International Cooperation Agnecy (JICA). JICA sent to the Solomon Islands the study team from May 11th to June 3rd, 1986.

As a result of the study, JICA prepared a Draft Report and dispached a mission, headed by Dr. Takeshi Kurihara, Professor, Teikyo University School of Medicine, to explain and discuss it starting from September 16th to October 4th, 1986.

Both Parties had a series of discussions on the Report and, after clarifying its contents, agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

September 23, 1986

Dr. Takeshi Kurihara
Leader-Draft Final Report Team
of Basic Design Study,
Japan International Cooperation
Agnecy

Mr. Philip Funifaka
Permanent Secretary,
Ministry of Health and Medical
Services

ATTACHMENT

1. Both parties agreed to reconfirm the Minutes of Discussions which was mutually signed on May 21, 1986, except the item on the Project site.

2. Both parties agreed the change of the Project site from the Kukum Golf Course to the Kukum Campus of College of Higher Education. (As seen in Annex)

3. The Solomon Islands side agreed in principle to the basic design proposed in the Draft Final Report and appropriate alterations agreed upon during the discussions will be incorporated in the Final Report.

4. The Solomon Islands side understood the system of Japan's Grant Aid Program and confirmed the measures to be taken by the Solomon Islands side towards the realization of the Project.

5. The Final Reports (10 copies in English) on the Project will be submitted to the Solomon Islands in November, 1986.


Site for,
• Malaria Training and Research Center: A
• Dormitory B
• Guest House C
FISHING VILLAGE
K U K U M H I G H W
Sports Ground
Basketball Court
HONIARA TECHNICAL INSTITUTE
Housing
Water Tank
ROAD
Housing
Housing
Vegetat
Approved
23/9/86

1-2. Member of the Survey Team I (B/D)

The Study will be carried out by the Study Team which has been organized by JICA. The Study Team comprises nine (9) members as follows :

Manabu Sasa, M. D. (Team Leader)	President, Toyama Medical and Pharmaceutical College
Hiroshi Suzuki,M. D. (Entomologist)	Tropical Medicine Laboratory Nagasaki Univercity
Hiromi Kato,M. D. (Parasitologist)	Toyama Medical and Pharmaceutical College
Ms.Yuriko Minamoto (Project Coodinator)	First Basic Design Study Division, Grant Aid Planning & Survey Department, Japan International Cooperation Agency
Mr.Isao Fukuwatari (Architect)	President, Fukuwatari & Architectural Consultants
Mr.Hajime Takai (Archtiect)	Fukuwatari & Architectural Consultants
Mr.Kenji Tateno (Electrical & Mechanical Engineer)	Fukuwatari & Architectural Consultants
Mr.Isamu Nyui (Medical Equipment Engineer)	Fukuwatari & Architectural Consultants
Mr.Shuya Tanimoto (Archtiect/Quantity Surveyor)	Fukuwatari & Architectural Consultants

1-2.Member of the Survey Team II(D/F)

Takeshi Kurihara PH. D. (MED. SCI) (Team Leader)	Professor, Teikyo University School of Medicine
Ms.Yuriko Minamoto (Project Coodinator)	First Basic Design Division, Grant Aid Planning & Surver Department Japan International Cooperation Agency
Mr.Isao Fukuwatari (Architect)	Principal, Fukuwatari & Architectural Consultants
Mr.Isamu Nyui (Medical equipment engineer)	Fukuwatari & Architectural Consultants

1-3 Schedule of the Survey I (B/D)

5/11 (Sun.) Morning
Group A- Departure from Narita.

5/12 (Mon.) Afternoon
Arrival at Oakland. Discussion with Mr. R. H. Coutanche, Quantity Surveyor at the local office. Collection of materials.

5/13 (Tue.) Afternoon
Arrival at Honiara. Discussion with Dr. Parkinson, WHO Country Liaison Officer. Delegation meeting to discuss agenda.

5/14 (Wed.) Morning
Courtesy calls to clarify the Inception Report.
Ministry of Health - Mr. J. B. Seijama, Chief Anti-Malaria Officer.
Ministry of Foreign Affairs - Mr. P. Tovua, Minister, Mr. W. Ifuanoa, Permanent Secretary.
Economic Planning Agency - Mr. S. Fanega, Chief Planning Officer.
Ministry of Finance - Mr.M. Pepena, Under Secretary.
Ministry of Health - Mr. P. Funifaka, Permanent Secretary.

5/14 (Wed.) Afternoon
Ministry of Transportation Public Works - Mr.Millership, Under Secretary, Mr.G. O' Brien, Chief Mechanical Engineer, and Mr. G. Tusa, Senior Architect.
Discussion with Dr. Parkinson and embassy delegate Mr. Hayashi.

5/15 (Thu.) Morning
Visits to the Central Hospital and the Malaria Laboratory. Visit to planned construction site A (golf course).
Discussion at the Ministry of Labor.
Afternoon:
Visit to the College of Higher Education. Visit to planned construction site B (hill). Group B - Arrival at Honiara.
Discussion with Dr. Matsushima, WHO Medical Officer and Dr. Ushio, WHO Assistant Expert.

5/16 (Fri.) Morning

Visit to a provincial clinic (Oil Palm Plantation). Discussion with Mr. Funifaka and Mr. Seijama at the Ministry of Health regarding the minutes. Investigation of construction site A and the existing laboratory. (Group B).

Afternoon:

Courtesy call to the Prime Minister's Office. Questions and answers. Delegate's internal meeting.

5/17 (Sat.) Morning

Discussion with Dr. Parkinson. Visit to Sabo Island. Visit to a few construction sites in the city.

Afternoon:

Delegate's internal meeting.

5/18 (Sun.) Morning

Discussion with Dr. Matsushima and Dr. Parkinson.

Afternoon:

Delegate's internal meeting.

5/19 (Holiday) Morning

Heavy typhoon strikes. Material analysis.

Afternoon:

Material analysis.

5/20 (Special Holiday) Morning

Discussion with Dr. Matsushima. Visit to the planned construction site. Investigation into damages in the city.

Afternoon:

Investigation into erosion at the Central Hospital site. Visit to the College of Higher Education's quarters. The Poha Bridge, west of Honiara collapsed. Visit to the site of the broken bridge.

5/21 (Wed.) Morning:

Delegate's internal meeting.

Afternoon:

Inspection of materials and equipment. Bowmans Ltd. (construction material supplier), C & I. Distributors Ltd. and Guadalcanal Electric Ltd.

5/22 (Thu.)

Morning: Inspection of materials and equipment. Solomon Islands Investment Ltd. (Construction materials supplier).

Afternoon: Signing of the minutes. Inspection of materials and equipment. Fletcher Construction Company Ltd. (construction company). Reception hosted by the delegation.

5/23 (Fri.)

Morning: Discussion with Mr.C. Bailey, Chief Architect at the Ministry of Transportation & Public Works. Discussion with Mr. D. Hoota, Town Clerk the city hall. Inspection of materials and equipment. Earth Movers Solomon Ltd. (civil engineering company).

Afternoon: Group A - Departure from Honiara. Discussion with Mr. O' Brien at the Ministry of Transportation and Public Wroks. Discussion with Mr. Burke Chief Telecommunications Engineer at Posts & Telecmmunications. Meetings with S. I. E. A.(electric company), Solo Gas (gas company) and Pacific Electric Ltd.

5/24 (Sat.)

Morning: Investigation into the site using a penetrometer. Visit to the washed-away Ngalimbiu Bridge, east of Honiara.

Afternoon: Material analysis

5/25 (Sun.)

Morning: Discussion with Mr.B. Saijama at the Ministry of Health.

Afternoon: Leveling of site

5/26 (Mon.)

Morning: Discussion with Mr.S. Franega at the Ecnomic Planning Agency. Discussion with Mr.O' Brien at the Ministry of Transportation and Public Works. Inspection of mateials and equipment. Tradco Ltd. (shipping company) and Shorncliffe Ltd.(asphalt construction company), Fretcher Construction Company Ltd. (construciton materials supplier), John Holland Ltd. (construction company), Kitano Construction S. I. Ltd.(construction company), S. I. Steel & Welding Works (ironworks), S. I. E. A.(power company).

Afternoon: Materials analysis at the Ministry of Health.

5/27 (Tue.)

Morning: Discussion with Mr. M. Pepena at the Ministry of Finance. Discussion with Mr. S. Danitofa, Chief Geologist at the Ministry of Natural Resources. Inspection of materials and equipment. Guadalcanal Electrics, Honiara Gas Center, and Earth Mover Ltd.

Afternoon: Discussion with Dr. Parkinson at the Ministry of Health. Discussion with the Building Inspector at City Hall. Inspection of materials and equipment.Solomon Islands Investment Ltd. and S. I. E. A. Visit to the Forum Fisherie with the cooperation of E. C.

5/28 (Wed.)

Morning: Discussion with Dr.Parkinson and Mr.Seijama at the Ministry of Health. Acquisition of materials at the Meteorological Agency. Inspection of materials and equipment. Sullivans Ltd.(shipping company), Bowmans Ltd., Shorncliffe Ltd., and John Holland Ltd. Acquisition of official maps at theMinistry of Agriculture and Mr.Seijama at the Ministry of Health. Review of plans and signing of the agreement. Visit to planned construction site C (moutain top).

Afternoon: Acquistion materials at the Ministry of National Resources. Inspection of materials and equipmennt. Fletcher Construction Company Ltd. Sullivans Ltd., Solomon Mortars Ltd.(automobile sales company), C & I Distributors, and Honiara Gas Center.

5/29 (Thu.)

Morning: Group B - Four members. Departure from Honiara.

Afternoon: Reporting to the Ambassador at the Japanese Embassy. Discussion with Mr.Sejama at the Ministry of Health. Group B- Arrival at Sydney.

5/30 (Fri.)

Morning: Discussion with Mr.Sejama at the Ministry of Health. Information gathering at the Building Information Center, Sydney.

Afternoon: Discussion with Dr.Parkison and Mr.Seijama at the Ministry of Health. Group B- Three members. Departure from Sydney.

5/31 (Sat.)

Morning: Information gathering at a construction materials exhibition in Sydney. Group B - Three members. Arrival at Narita.

Afternoon: Materials analysis

6/1 (Sun.)

Morning: Visit to the College of Higher Education
Group B - One member. Departure from Sydney.

Afternoon: Visit to the College of Higher Education. Group B - One member. Arrival at Narita. Discussion with Dr. Parkinson.

6/2 (Special Holiday)

Morning: Meeting with Mr. Hayashi, embassy delegate, Mr.Watanabe, Consul and Mr.Sejama. Discussion with Mr.C. Bailey at the Ministry of Transportation and Public Works.

Afternoon: Visit to the D. D. T. warehouse. Discussion with Mr.Seijama at the Ministry of Health. Departure from Honiara. Arrival at Sydney.

6/3 (tue.)

Morning: Departure from Sydney.
Afternoon: Arrival at Narita.

1-3 Schedule of the Survey II (D/F)

	DATA	ITINERARY		PURPOSE
1	16Sep (Tue)	Lv.Tokyo		
2	17 (Wed)	Ar.Sydney		
3	18 (Thu)	Lv.Sydney Lv.Brisbane	Ar.Brisbane	
		Ar.Honiara:	Embassy of Japan	Courtesy Call
4	19 (Fri)	Honiara:	Ministry of Finance	Courtesy Call
			Ministry of Health & Medical Services	Courtesy Call Explanation of the Draft Final Report
			New Proposed Site	
5	20 (Sat)	Honiara:	Existing Central Maralia Laboratory Central Hospital	Investigation
6	21 (Sun)	Honiara:	Office Work	Analysis
7	22 (Mon)	Honiara:	Ministry of Health & Medical Services	Discussion on the Draft Final Report and Minutes of Meeting
8	23 (Tue)	Honiara:	Ministry of Health & Medical Services	Signing of Minutes of Meeting
9	24 (Wed)	Honiara:	Ministry of Health & Medical Services	Meeting Collection of data ＊Team Leader Prof.Kurihara and Ms.Minamoto depart from Honiara
10	25 (Thu)	Honiara:	Ministry of T.W.+U.	Meeting ＊Mr.Nyui departs from Honiara
11	26 (Fri)	Honiara:	New Proposed Site	Investigation
			Ministry of T.W.+U.	Meeting
12	27 (Sat)	Honiara:		Collection of data
13	28 (Sun)	Honiara:	Office Work	Analysis
14	29 (Mon)	Lv.Honiara: Ar.Munda : Lv.Munda	Peripheral Laboratory Ar.Gizo	Investigation
15	30 (Tue)	Gizo:Provincial Laboratory Lv.Gizo Ar.Honiara:	Ministry of T.W.+U.	Investigation Meeting
16	1 Oct (Wed)	(Holiday)		Analysis
17	2 (Thu)	Lv.Honiara: Ar.Sydney		
18	3 (Fri)	Lv.Sydney		
19	4 (Sat)	Ar.Tokyo		

1-4 List of Personel Interviewed I (B/D)

Solomon Islands Government Official:

Prime Minister	Mr.P. Kenilorea
Ministry of Health	Mr.P. Funifaka, Permanent Secretary
	Mr.J. B. Seijama, Chief Anti-Malaria Officer
Ministry of Finance	Mr.M. Pepena, Under Secretary
Ministry of Foreign Affairs	Mr.P. Tovua, Minister
	Mr.W. Ifuanoa, Permanent Secretary
Ministry of Transportation and Public Works	Mr.Millership, Under Secretary
	Mr.G. O' Brien, Chief Mechanical Engineer
	Mr.G. Tusa, Senior Architect
	Mr.C. Bailey, Chief Architect
Ministry of Natural Resources.....	Mr.S. Danitofa, Chief Geologist
Economic Planning Agency	Mr.F. S. Fanege,Chief Planning Officer
City Hall	Mr.D. Hoota, Town Clerk
Posts & Telecommunications	Mr.Burke, Chief Telecommunications Engineer

Others :

WHO	Dr.Parkinson, WHO Country Liaison Officer
	Dr.Matsushima, WHO Medical Officer
	Dr.Ushio, WHO Assistant Expert
Embassy of Japan	Mr.Watanabe,Consul
	Mr.Hayashi, Delegate

1-4 List of Personel Interviewed II(D/F)

Solomon Islands Government Official:

Ministry of Health	Mr.S. Konefilia, Acting Minister
	Mr.P. Funifaka, Permanent Secretary
	Dr.N. Kere, Under Secretary
	Mr.J. B. Seijama, Chief Anti-Malaria Officer
	Mr.J. Villa, Principal Anti-Malaria Officer
Ministry of Finance	Mr.M. Penena, Under Secretary
Ministry of Tranceportation and Public Works	Mr.C. Bailey, Chief Architect
Ministry of Land	Mr.D. Kudu, Chief Phisical Planner
Economic Planning Agency	Mr.E. Sigimaru

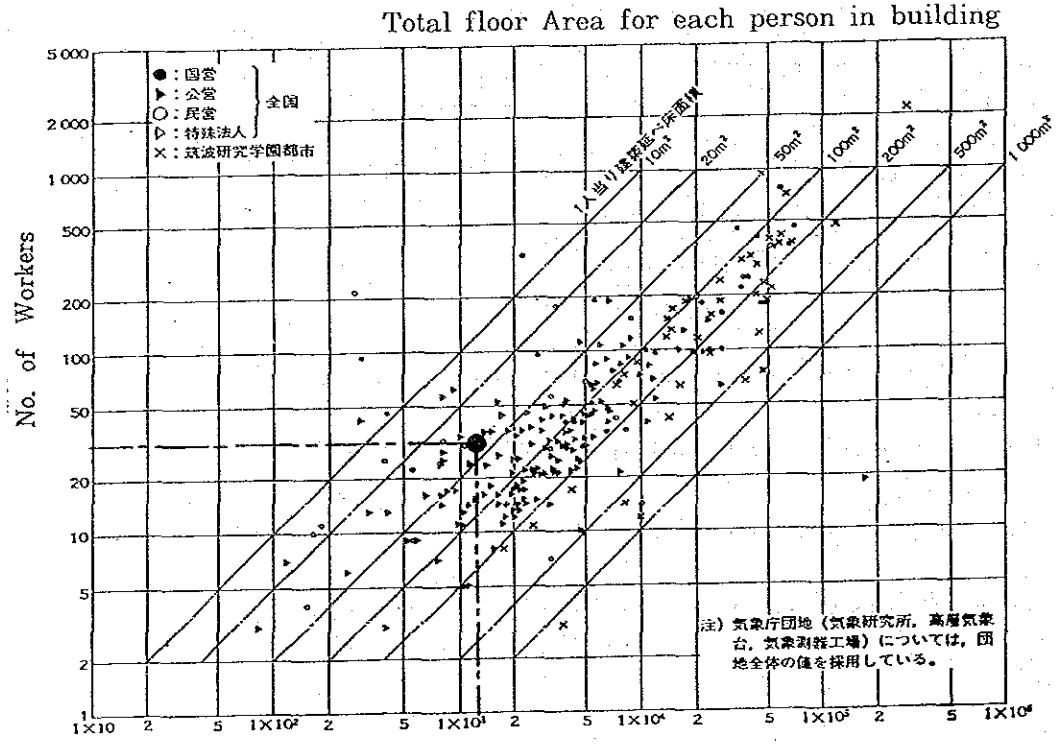
Others :

College of Higher Education	Mr.J. Airau, Acting Deputy Director
WHO	Dr.D. Parkinson, WHO Country Liaison Officer
Embassy of Japan	Mr.Hiraga, Ambassador
	Mr.Hayashi, Delegate

Appendix 2 Data on Architectural Design

2 – 1 Total floor area and number of staff of research facilities

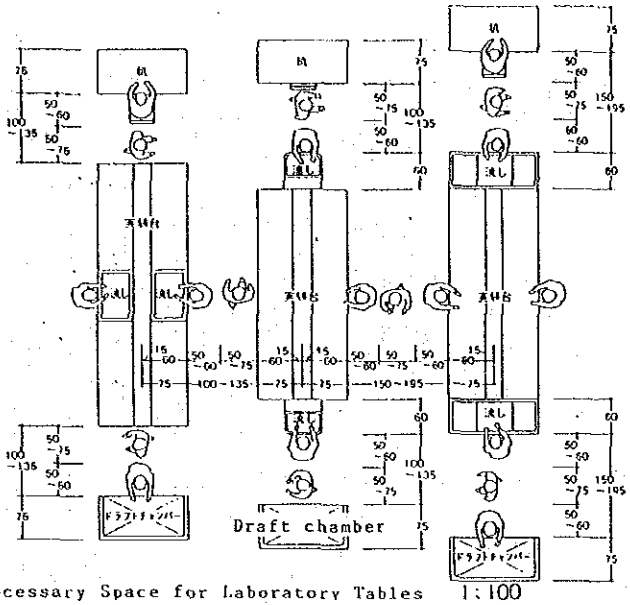
● = Governmental management
▲ = Public management
○ = Private management
△ = Special public corporation
× = Tsukuba Science City



Total Floor Area in Builbing (㎡)

Total Floor Area in Research Facility and No. of Workers

2 – 2 Standard Dimentions for Laboratories

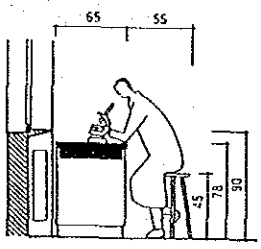


Necessary Space for Laboratory Tables 1:100

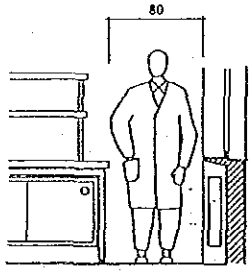
Unit and Dimension of Room with Standard Scale

Interval of laboratory tables (cm)	1 unit	2 units	3 units	4 units
100	250	500	750	1000
110	260	520	780	1040
120	270	540	810	1080
130	280	560	840	1120
140	290	580	870	1160
150	300	600	900	1200
160	310	620	930	1240
170	320	640	960	1280
180	330	660	990	1320
190	340	680	1020	1360
200	350	700	1050	1400

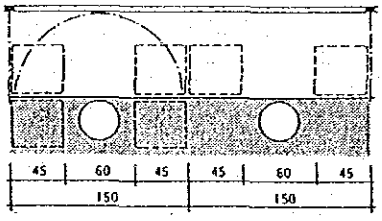
Dimension of room for each number of units

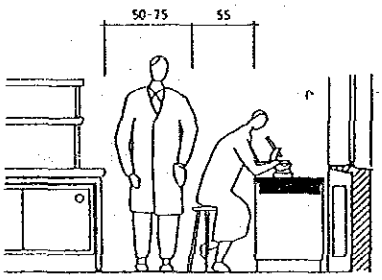


Depth of microscope stand on the window side and operation space



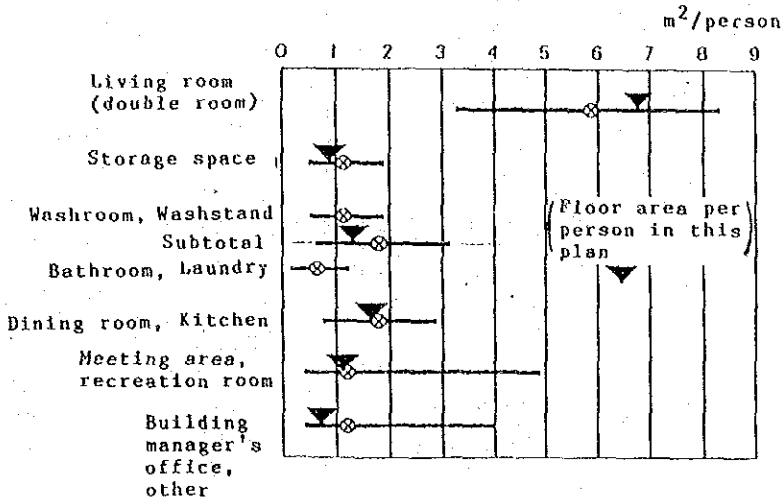
Clearance between the front of window and laboratory table

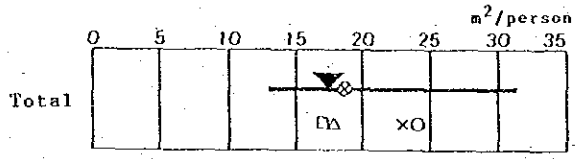




Clearance between experiment stand on the window side and laboratory table

2 – 3 Floor Area Standard of Rooms for Dormitory





* *Average value*
Standard of student's dormitory (notification of the Ministry of Education), dining room not included
Calculation data for area of singles dormitory of Nippon Telegraph and Telephone Public Corporation + 80m² for service section besides the above area
o Assessment standards of the area of hospitals by the Council of Municipal Corporation Hospital
x *Construction standards of houses financed by the* Housing Loan Corporation

SCALE

目標対象 ＼ 評価区分		C⁻	C	B	A	A⁺
住戸		～50	50～70	70～100	100～150	150～
公支部分		～8	8～13	13～18	18～30	30～
住支部分	和室[3] 主寝室		8.5～10	10 ～12	12～	
	和室[3] 副寝室		6.5～ 8.5	8.5～10	10～	
	和室[3] 補寝室		5 ～ 6.5	—	～	
	洋室[3] 主寝室		10 ～12	12 ～14	14～	
	洋室[3] 副寝室		8 ～10	10 ～12	12～	
	洋室[3] 補寝室		6 ～ 8	—	～	

評価基準
A⁺ ゆとりある望ましい水準
A 今後の一般住宅の目標としてほぼ満足できる水準
B 当面の日本住宅としてはほぼ標準と考えられる水準
C 在来の公共住宅程度で、今やいささか狭いと判断される水準
C⁻ 現時点で明らかに著しく劣ると考えられる水準

1) 計算は内のリヨ法による有効床面積（単位：m²）を示す。
2) 和室の場合、8.5m²以上の洋室は間口1.8m以上の押入、それ以下の洋室は間口0.9m以上の押入を設ける。両者の計算は押入面積をまぜない。
3) 洋室の場合、造付け洋箪笥などの物入を有する場合は、1m²までを緩和としてこの面積内にまぜることができる。

B

Level which is thought to be of the same standard as a present Japanese house

Evaluation index for scale of house

Appendix 3 List of Transport Equipment to be Provided Under the Improvement Project of Medical Transport Equipment in 1985

The following transport equipment which was decided on in 1985 under the improvement project of medical transport equipment, the grant assistant, are to be provided for AMP.

		the number
1.	(a) 4 wheel drive vehicle pick-up type with canopy, diesel powered	10
	(b) 4 wheel drive double cabin diesel powerd pick-up with canopy	5
2.	4 wheel drive vehicles with hardtop and side facing rear seats, diesel powered	13
3.	Motor cycle 125cc	10
4.	Canoe fibreglass with floatation tank filled with buoyancy foam. 23ft long.Forward covered compartment 3 seats, one at rear and two across beam, with transson for S. S. OBM	16
5.	Outboard motor 15HP short shaft	32
6.	Canue fibreglass coverd bows,wide beam, 23ft length rear seats, 3 seats across beam,transson for S. S. OBM	5
7.	Outboard motor 25HP short shaft	5
8.	Van 10 seat capacity diesel powered	2