

V-3 MANPOWER

Computation of manpower for each project hospital: . . .
When the planned bed capacity of the project hospital corresponded to the standard bed scale, the standard deployment of manpower was adopted. In other cases, manpower was allocated in proportion to the actual bed scale. The results are shown by the table below.

TABLE V-3-1 MANPOWER PLANNING BY HOSPITAL

STANDARD AND NAME OF PROJECT HOSPITALS		T/T : Teaching & Training Hospital																						
		100 T/T	200 T/T	300 T/T	450 T/T																			
NAME OF STAFF																								
DOCTOR	Chief of Hospital	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Chief of Clinics	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Medical Specialist	2	5	12	21	21	2	21	2	8	2	2	5	5	12	2	2	3	2	2	5	2	2	
	Dentist	1	1	2	2	2	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
	Resident Physician	7	16	25	38	38	7	38	7	20	7	7	16	16	25	7	7	11	7	7	16	7	7	
	Sub Total	11	24	41	63	63	11	63	11	31	11	11	24	24	41	11	11	17	11	11	24	11	11	
NURSE	Chief Nurse	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Assistant Chief Nurse	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	Nurse	23	40	72	106	106	23	106	23	56	23	23	40	40	72	23	23	31	23	23	40	23	23	
	Nursing Attendant	22	34	67	93	93	22	93	22	50	22	22	34	34	67	22	22	28	22	22	34	22	22	
	Midwife	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Sub Total	46	76	141	201	201	46	201	46	108	46	46	76	76	141	46	46	60	46	46	76	46	46	
MEDICAL TECHNICIAN ETC.	Pharmacist	1	2	3	4	4	1	4	1	2	1	1	2	2	3	1	1	1	1	1	2	1	1	
	Pharmacy Aide	2	5	5	6	6	2	6	2	5	2	2	5	5	5	2	2	3	2	2	5	2	2	
	Dental Aide	2	2	4	5	5	2	5	2	3	2	2	2	2	4	2	2	2	2	2	2	2	2	
	Medical Radiation Technologist	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Medical Radiation Technician	2	3	4	5	5	2	5	2	3	2	2	3	3	4	2	2	2	2	2	3	2	2	
	Medical Radiation Aide	2	3	4	5	5	2	5	2	3	2	2	3	3	4	2	2	2	2	2	3	2	2	
	Health Physicist	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Medical Technologist	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

MEDICAL TECHNICIAN ETC.	Medical Laboratory Technician	2	3	5	6		6	2	6	2	4	2	2	3	3		5	2	2	2	2	2	3	2	2
	Medical Laboratory Aide	3	6	8	10		10	3	10	3	7	3	3	6	6		8	3	3	4	3	3	6	3	3
	Physiological Test Technician	1	2	3	4		4	1	4	1	2	1	1	2	2		3	1	1	1	1	1	2	1	1
	Other Medical Technicians	-	-	1	1		1	-	1	-	-	-	-	-	-		1	-	-	-	-	-	-	-	-
	Autopsy Attendant	-	-	-	1		1	-	1	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
	Guidance Psychologist	-	-	1	1		1	-	1	-	-	-	-	-	-		1	-	-	-	-	-	-	-	-
	Medical Social Worker	2	2	3	3		3	2	3	2	2	2	2	2	2		3	2	2	2	2	2	2	2	2
	Physical Therapist	-	-	1	2		2	-	2	-	1	-	-	-	-		1	-	-	-	-	-	-	-	-
	Physical Therapy Aide	-	-	2	2		2	-	2	-	2	-	-	2	2		2	-	-	-	-	-	2	-	-
	Occupational Therapist	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
DIETARY STAFF	Sub Total	17	28	44	55		55	17	55	17	34	17	17	28	28		44	17	17	19	17	28	17	17	17
	Dietitian	1	1	2	2		2	1	2	1	2	1	1	1	1		2	1	1	1	1	1	1	1	1
	Food Service Supervisor	1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	2	1	1	1	1	1	1
	Cook	2	3	5	8		8	2	8	2	4	2	2	3	3		5	2	2	2	2	2	3	2	2
	Food Service Worker	4	8	12	15		15	4	15	4	10	4	4	8	8		12	4	4	6	4	4	8	4	4
	Sub Total	8	13	20	26		26	8	26	8	17	8	8	13	13		20	8	8	10	8	13	8	8	8
	Laundry Worker	3	4	6	8		8	3	8	3	5	3	3	4	4		6	3	3	3	3	4	3	3	3
	Seamstress	1	2	3	3		3	1	3	1	3	1	1	2	2		3	1	1	1	1	1	2	1	1
	Institution Worker	12	20	30	41		41	12	41	12	25	12	12	20	20		30	12	12	16	12	12	20	12	12
	Dormitory Manager	1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
SERVICE STAFF	Housekeeper	-	-	-	-		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
	Security Guard	3	3	6	6		6	3	6	3	3	3	3	3	3		6	3	3	3	3	3	3	3	3
	Janitor	3	3	6	6		6	3	6	3	3	3	3	3	3		6	3	3	3	3	3	3	3	3
	Sub Total	23	33	52	65		65	23	65	23	40	23	23	33	33		52	23	23	27	23	33	23	23	23

V-4 MEDICAL EQUIPMENT

Allocation of medical equipment to each hospital is based on the standard for each hospital shown by the table below. As for the items of medical equipment, please refer to the standard for each hospital.

TABLE V-4-1 MEDICAL EQUIPMENTS BY HOSPITAL

Hospital	General Hospital			Mental Hospital	Remarks
	100 ^B Standard	200 ^B Standard	300 ^B Standard	200 ^B Standard	
I	1. Pangasinan MC (450 ^B)			○	
	2. Bontoc PH (100 ^B)	○			
	3. Baguio MC (450 ^B)			○	
	4. Benguet PH (100 ^B)	○			
	5. La Union RH (250 ^B)		○		
	6. Abra PH (100 ^B)	○			
	7. Gabriela PH (100 ^B)	○			
	8. Don Mariano Marcos MH (100 ^B)		○		
	9. Ilocos Norte PH (200 ^B)		○		
II	1. Cagayan RH (300 ^B)			○	
	2. Cagayan Mental H (150 ^B)			○	
	3. Kalinga-Apayao PH (100 ^B)	○			
	4. Cagayan PH (100 ^B)	○			
	5. Isabela PH (150 ^B)	○			
	6. Quirino PH (100 ^B)	○			
	7. Ifugao PH (100 ^B)	○			
	8. Maj. F. Marcos VH (150 ^B)		○		
	9. Nueva Vizcaya PH (100 ^B)	○			
	10. Batanes PH (75 ^B)	○			

V-5 BUILDING PLAN

1. Basic Items of Upgrading

Upgrading of project hospitals will be carried out based upon the hospital standard plan described in previous chapter, and method of use of the standard plan and basic items for application to individual hospitals will be described hereinafter.

1) Application method

- (1) The standard plan is generalized for the purpose of leveling up the all project hospitals and will be partially altered after reviewing special various conditions and requirements of each hospital.
- (2) Since requirements of each hospital at the time of field survey are not necessarily based upon the same foundation, it is required to discuss the requirements again basing upon this standard plan at the time of preliminary design so that requirements are incorporated only partially in this standard plan.
- (3) Some hospitals are already under construction and possibility of newly preparing architectural plan for these buildings is very small and it may cause some confusion if such buildings would be redesigned so that only medical equipment will be supplied to such buildings.
- (4) When some buildings are under construction in a hospital, these buildings will be completed but, if there are some undesirable conditions in such buildings in view of overall site planning, such buildings may be remodeled or changed to other departments different from originally planned ones.

2) Environment

- (1) Hospital should be in harmony with environment surrounding the site without giving any devastation to the environment.
- (2) Existing trees in the site should be saved as much as possible. And particularly large trees should be left as they are with other green.
- (3) For sloped site with insufficient flat area, grading must be performed with filling and cutting.

- (4) Since some hospital sites were flooded or have possibility of flooding in future, buildings must be constructed on finish grade higher than existing one.
- (5) Soil investigation near the building location should be done during preliminary design stage of each hospital.

3) Functions

In hospital to be upgraded in existing site, construction route and procedure should be prepared for assuring additions, remodeling and demolition without disturbing medical services and operation of hospital.

4) Layout of buildings in site

If site is so small that both hospital and quarter cannot be located, first priority should be given to the hospital building and quarter is to be located in nearby location outside of the site.

5) Department

Though some of the hospitals are operated on a conventional composition of departments, the standard plan is to be followed, and it is to be re-examined at the stage of basic design.

6) Traditions

With regard to the traditional fixtures such as the statue of Virgin Mary and their positions, they are to be transferred after re-examination at the stage of basic design.

7) Structures and materials

Design, color and so forth of existing buildings will be analyzed to create harmonized environment.

2. Improvement Plan for Each Hospital

IMPROVEMENT POLICY LIST, CHECK LIST, GUIDE MAP, BUILDING IMPROVEMENT PLAN and PLAN OF THE BUILDING are shown below for each hospital.

The scale of the existing building and that after the improvement may be compared by consulting the Building Improvement Plan which also makes distinction between new construction, renovation and existing structures in service.

As for various drawings other than Plan of the Building, please refer to plans under Chapter XII.

I-1 Pangasinan M.C.

Item	Description
Objective	Since existing hospital has insufficient site area, new 450-bed hospital will be constructed in new site.
Existing buildings	Existing emergency center will be remodeled and used as 50-bed isolation ward (TB and epidemic).
Extension	<p>- Hospital -</p> <p>Central diagnostic and treatment ward, out-patient and administrative departments should be provided in 2-story building, and service ward and morgue should be constructed as 1-story building.</p> <p>- Quarters -</p> <p>Residence for Chief of Hospital, doctors' residences, and nurses' quarters should be constructed as 1-story or 2-story buildings.</p>
Environment, site layout and exterior facilities	<p>For protecting building from storm tide, floor level of all buildings should be higher than grade elevation. Very strong structure must be built since surrounding area is all open and high wind pressure is expected during typhoon.</p> <p>Exterior finishes should be able to withstand damage from sea wind. Site should be divided into two zones; hospital zone and quarter zone. And zone closer to the city should be used as hospital zone. Three separate approaches should be provided for out-patient, services and quarters. Access road, parking area and guardroom should be constructed.</p>
Functions, departments, and future extension	Future space for one central treatment (RI, cobalt 60) and one medical ward should be reserved.
Others	Space for nurses' school should be reserved near the entrance of site but construction of the school will be excluded from present plan. Existing hospital buildings will be left as they are, and no work will be done for these buildings by present project.

(Name of Facilities) I-1 PANGASINAN MEDICAL CENTER

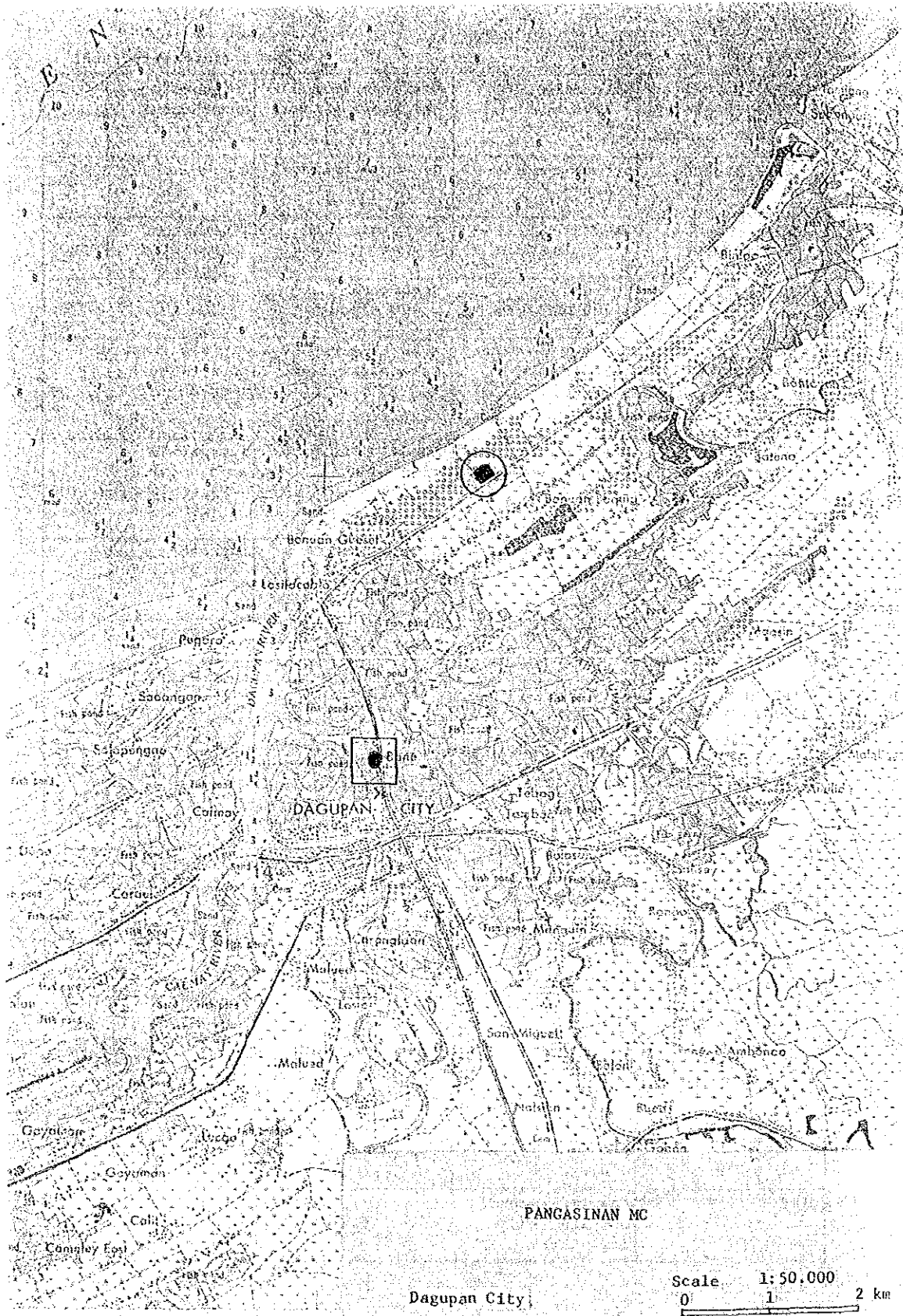
Sheet 1 (medical care)

A	Area	Region I	Location Dagupan city	Special feature of location Coastal city
B	Treatment scale Rank	Current MC·RH (PH)·EH	Requested MC.	Project MC
	Bed capacity () actual	Current 200 (245)	Requested 450	Judgement 300 (Hospital) +150 (Ward)
	Outpatients per day	Current 2,477 perons	Requested	Project 300~450 persons
C	Staff Total (Dr/N)	Current 190 (35/69)	Requested	Project 488 (63/201)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-GYNE, Pediatrics		To be increased.
	Special fields	Current Tuberculosis, Malnutrition, Infectious disease ward		To be increased.
E	Sections Ward	Current 40 B/INU requested. (Current 50B), TB10() IUC2B, CCU2B, Internal 50B, Surgical 60B, Pediatrics 40B, OB-GYNE 45B	Requested TB 20B	Project
	Outpatient	Current		
	Central treatment	Rehabilitation requested.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school	A few nursing classes at existing hospitals.		
F	System	Method of record filing Omitted		
		Food service Laundry Central dietary		

NEW SITE

Sheet 2 (Infrastructure)

G	Site Site condition	Site area Approx. 60,000 m ²	Distance from neighboring town 15 min. by car		Neighboring environment No structures		
	Site ground	Ground condition Sandy	Groundwater level				
	Site environment	View Sea in sight	Terrain Flat		Vegetation Scattered coconut trees		
	Car park	Current 200 m ²	Requested 400 m ²				
H	Climate Temperature	Maximum tempera- ture (annual average) 32.4°C	Mean temperature (annual average) 27.8°C		Minimum tempera- ture (annual average) 23.2°C		
	Humidity Precipitation	Mean humidity (annual average) 77%	Annual precipita- tion (annual average) 2,369.9 mm		Inundation Possible high tide		
	Wind	Maximum velocity 104 Kph	Wind direction (Wet season) } Vari- (Dry season) } able		Typhoon		
I	Pollution	None				Salt damage Positive	
J	Existing facilities	Type	Structure	Stories	Area m ²	Year of construc- tion	
	New site	Emergency hospital	RC	1			
	(Present site)						
		(Sub-total) (8,460 m ²)					
K	Design of existing facilities Buildings on the new site	Style General	Materials RC structure Iron plate roofing		Color White wall with a section of red tiles		
L	Present condition of facilities	Water source	Drainage (present site) Street sewerage		Waste treatment (present site) Recovery by municipal system		
	Water supply & drainage	Well					
	Air-condition- ing and others	Cooling	Kitchen facilities		Laundry facilities		
	Power	Supply N.P.C.					
M	Others	Construction of hospital roads and others	Construction of a guard station				



I-2 Bontoc P.H.

Item	Description
Objective	Since site is steeply sloped and area usable for hospital is very small, standard plan cannot be used so that special layout is necessary.
Existing buildings	Main building already added (administrative, outpatient, central diagnostic & treatment, wards) will be used as it is, and ward at center and dietary service as well as toilets will be remodeled to medical wards. Ward located at 1.5 m high level will be demolished and mal nutrition infant ward at higher location will be remodeled to service warehouse, workers' dressing rooms, etc. Part of quarters will be demolished and house of Chief of Hospital will be remodeled.
Extension	<p>- Hospital -</p> <p>Service building will be added at 1.5 m high level. Because of restriction imposed to site, garage should be built facing to the street.</p> <p>- Quarter -</p> <p>Doctors' houses will be newly constructed and nurses' quarters should be reconstructed.</p>
Environment, site layout and exterior facilities	<p>Since it is improper to remodel existing dietary service building while using it, service building should be constructed on the 1.5 m high level for easier handling of commodities from road. Service 2 building will be constructed on an area after cutting and grading. Diagnostic and treatment department and wards are to be constructed on the same level for improving treatment and nursing functions.</p> <p>Since even the ramp cannot be installed on highest level, this level should be used for service warehouse, employees' locker room, etc. instead of wards.</p>
Functions, departments and future extension	<p>When comparing to standard plan, central diagnostic and treatment department seems to be too small. However, since addition of main building has been just completed, it will be left as it is this time but an extension next to the main building will be necessary in future.</p> <p>Since various services are being made through stairs presently at 2nd floor of main building, it seems to be very inconvenient. However, since new addition of ramp to 2-story building is very difficult, no work will be added this time.</p>

(Name of Facilities) I-2 BONTOC PROVINCIAL HOSPITAL

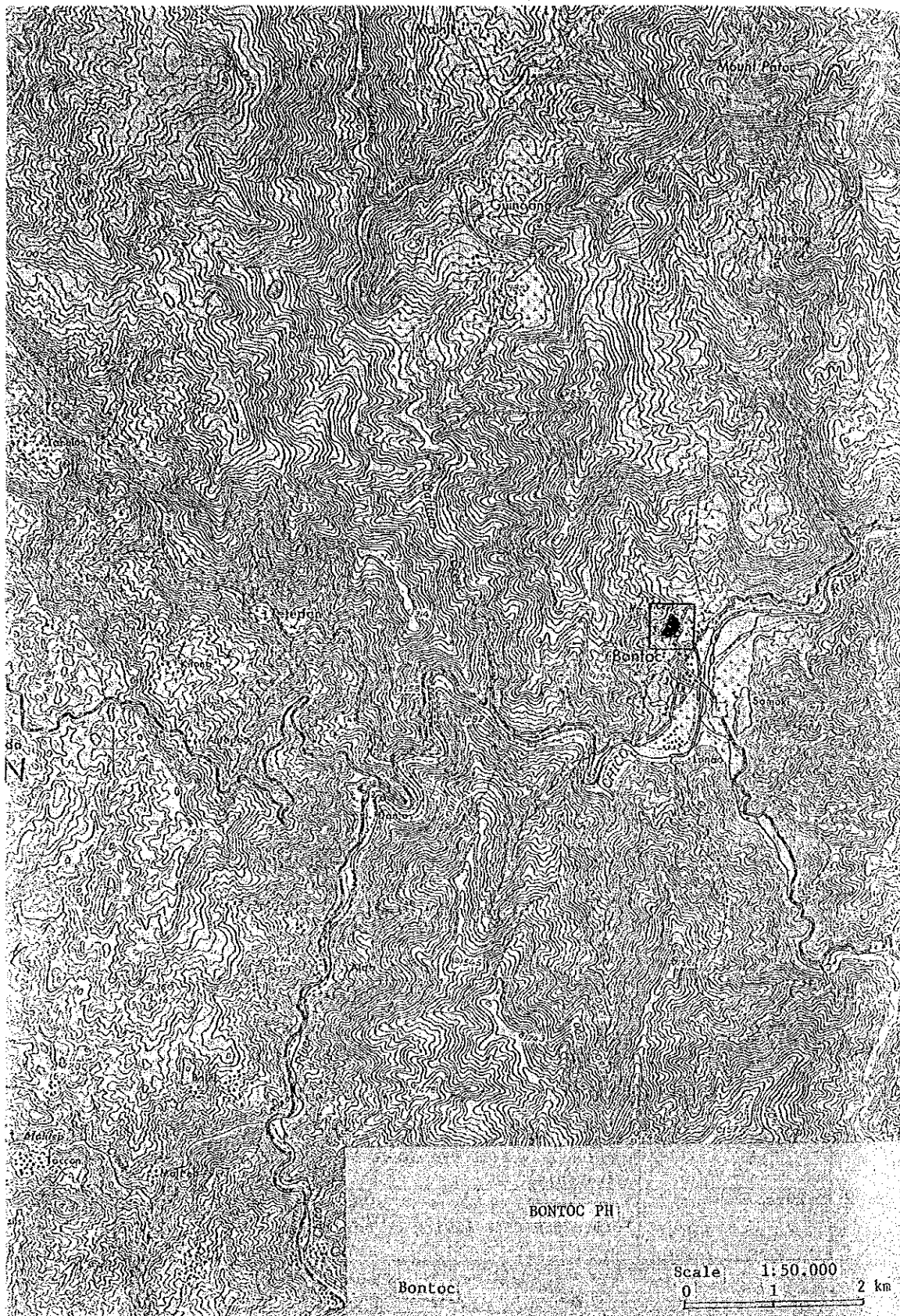
Sheet 1 (medical care)

A	Area	Region	Location	Special feature of location
		I	Bontoc	Mountain town
B	Treatment scale	Current	Requested	Project
	Rank	MC·RH (PH)·EH	PH	PH
	Bed capacity () actual	Current 100 ()	Requested 200	Judgement 100
C	Outpatients per day	Current 86.7	Requested	Project 100
	Staff	Current	Requested	Project
	Total (Dr/N)	104 (18/37)		131 (11/46)
D	Medical Departments	Current		
	Major fields	Internal medicine, Surgery, OB-GYNE, Pediatrics		
E	Special fields	Current Malnutrition		
	Sections	Current	Requested	Project
	Ward	(Segregated wards for men and women)	ICUIB CCUIB TB6B Infectious 6B	
	Out-patient	Current		
	Central treatment	Rehabilitation required.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school			
F	System	Method of record filing		
		Food service By tray.	Laundry	

NEW SITE

Sheet 2 (infrastructure)

G	Site	Site area	Distance from		Neighboring	
	Site condition	54,000 m ²	neighboring town		environment	
			In the city		Residential district at front	
					Mountains at the back	
H	Site ground	Ground condition	Groundwater level			
		Mixed with rocks				
	Site environment	View	Terrain		Vegetation	
		Good	Inclined on the east side			
I	Car park	Current	Requested			
J	Climate	Maximum temperature (annual average)	Mean temperature (annual average)		Minimum temperature (annual average)	
	Humidity	Mean humidity (annual average)	Annual precipitation (annual average)		Inundation	
	Precipitation					
	Wind	Maximum velocity	Wind direction (Wet season) (Dry season)		Typhoon	
K	Pollution	Smell			Salt damage	
					Negative	
L	Existing facilities	Type	Structure	Stories	Area m ²	Year of construction
						1947
						1906
						1979
M		(Sub-total) 1,250 m ²				
	Design of existing facilities	Style	Materials		Color	
			RC and brick, Iron plate roofing		Red	
N	Present condition of facilities	Water source	Drainage		Waste treatment	
	Water supply & drainage	Fountain	Open canal+River		Incineration in open pit	
	Air-conditioning and others	Cooling	Kitchen facilities		Laundry facilities	
		None				
O	Power	Supply				
		Private franchise				
P	Others	Former patients living on hospital grounds.				



I-3 Baguio M.C.

Item	Description
Objective	<p>Since groups of quarters and schools are spread over sloped land in this site, site planning is very difficult to do. In addition, since hospital's requests are mainly concerned with new diagnostic and treatment building, new diagnostic and service buildings will be planned basing upon the requests and standard plan. Hospital officials request to have new building in front garden but its level is low by 1-story so that building new structure in the garden is very difficult. This garden is very well maintained and, therefore, should be left as it is.</p> <p>New buildings will be constructed at west side of main building, and soil investigation and grading of this area will be necessary.</p>
Existing buildings	<p>Cancer ward presently under construction should be completed. Isolation ward located in proposed site area for new diagnostic and treatment building should be moved to existing outpatient building after remodeling the outpatient building in accordance with construction schedule.</p> <p>Main building (ward plus central diagnostic & treatment) should be all remodeled to ward, but hospital officials want to perform remodeling by themselves so that remodeling is not included in the project. Administrative building will be used as it is now.</p>
Extension	<p>Buildings to be newly constructed are: 1-story outpatient building; 2-story pay ward having mainly private rooms; 2-story central diagnostic and treatment building (2nd floor will be partially used as ICU); and service building which gives services to all other buildings. Quarters will not be built this time as they are satisfactory.</p>
Site layout, functions and departments	<p>Main building is connected to new diagnostic & treatment building by exterior corridor for the convenience of staffs and patients.</p> <p>Services of kitchen and laundry will be accessed through ramp to 2nd floor so that outpatient and central diagnostic area of 1st floor will not be disturbed by such services.</p> <p>Presently, kitchen is located in existing main building but method foods are to be served in ward (ward dietary system) or dining room. Foods to cancer ward will be made by ward dietary system using wagons.</p>
Problems to be solved	<p>Since requests to new diagnostic and treatment building of this hospital are widely varied and arrangement and facilities of existing building are unusual, coordination during preliminary design will be particularly needed basing upon this scheme.</p>

(Name of Facilities) I-3 BAGUIO MEDICAL CENTER

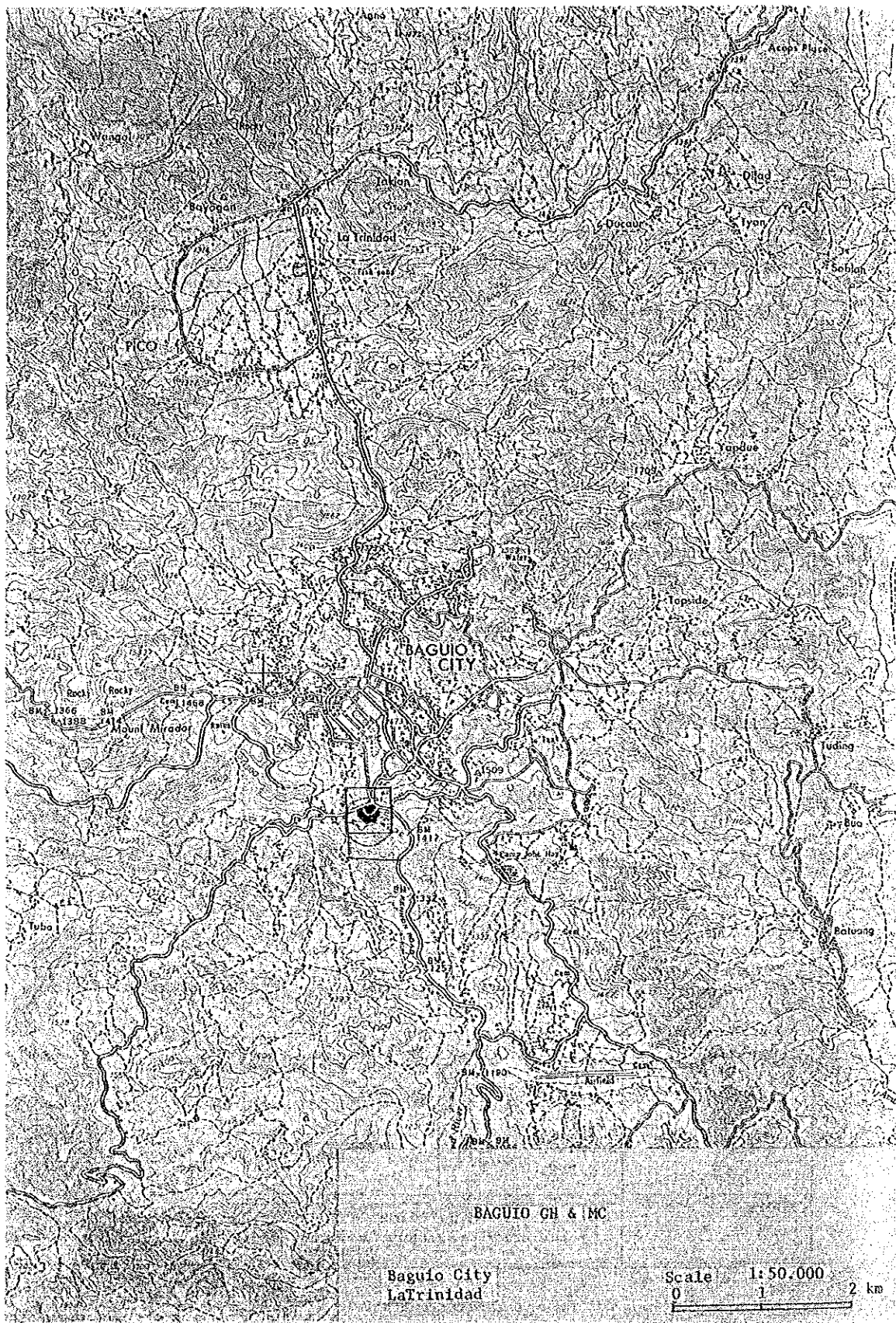
Sheet 1 (medical care)

A	Area	Region I	Location Baguio city	Special feature of location Mountain city (resort)
B	Treatment scale Rank	Current MC·RH·PH·EH	Requested MC	Project MC
	Bed capacity () actual	Current 350 (249)	Requested	Jugement 300 + 150
	Outpatients per day	Current 280.0	Requested	Project
C	Staff Total (Dr/N)	Current 383 (62/153)	Requested	Project 488 (63/201)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-GYNE, Pediatrics		
	Special fields	Current Physical therapy, TCU, CCU, Cancer center, Infectious disease ward		
E	Sections Ward	Current ICU1B(2B), CCU1B(2B), TB10B, Cancer ward (64B)	Requested	Project
	Out-Patient	Current		
	Central treatment	Rehabilitation requested.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school	Existing school of nursing.		
F	System	Method of record filing		
		Food service Central dietary	Laundry	

NEW SITE

Sheet 2 (infrastructure)

G	Site	Site area	Distance from neighboring town		Neighboring environment	
	Site condition	26,000 m ²	1 1/2 hours from the city		Residential district	
	Site ground	Ground condition	Groundwater level			
		Rock				
	Site environment	View	Terrain		Vegetation	
		Good	Inclined		Rich (coniferous)	
	Car park	Current	Requested			
H	Climate	Maximum temperature (annual average)	Mean temperature (annual average)		Minimum temperature (annual average)	
	Temperature	23.3°C	19.1°C		15.0°C	
	Humidity	Mean humidity (annual average)	Annual precipitation (annual average)		Inundation	
	Precipitation	83.9%	4,117.5 mm		Negative	
	Wind	Maximum velocity	Wind direction (Wet season) (Dry season)		Typhoon	
		145 Kph			Positive	
I	Pollution	None			Salt damage	
J	Existing facilities	Type	Structure	Stories	Area m ²	Year of construction
		(Sub-total) 6,500 m ²				
K	Design of existing facilities	Style	Materials		Color	
L		Colonial style	RC Iron plate roofing		White	
	Present condition of facilities	Water source	Drainage		Waste treatment	
	Water supply & drainage	Fountain			Recovery by DPS.	
	Air-conditioning and others	Cooling	Kitchen facilities		Laundry facilities	
		None			Equipment out of order	
	Power	Supply				
		N.P.C.				
M	Others	Existing main building is to be renovated as wards by the hospital; thus it is not included in the plan.				



I-4 Benguet P.H.

Item	Description
Objective	Since existing buildings are old and deteriorated, existing 100-bed hospital will be reconstructed in accordance with standard plan.
Existing building	Main building and diagnostic & treatment building will be demolished, existing annex building will be remodeled to nurses' quarter, and ward under construction will be completed.
Extension	<p>- Hospital -</p> <p>Central diagnostic & treatment, out-patient, administrative, ward, and service buildings will be newly constructed.</p> <p>- Quarters -</p> <p>Residence for Chief of Hospital, doctors' residences, and nurses' quarters will be newly constructed.</p>
Environment, site layout and exterior facilities	<p>Since there is possibility of ponding in this site, levels of roads in site, exterior corridors and building should be raised above ground level. While connecting traffic lines to existing buildings to remain, hospital should be located facing to the road and group of quarters should be placed behind the hospital.</p> <p>Parking area, front yard, roads, etc. should be provided.</p>
Functions and departments	Ward under construction should be combined with one of newly planned wards and net toilets to provide 50 beds/1 NU in future. In overall site layout, morgue is located near the road but it should be connected to laboratory test department and concealed by fence and trees for preventing it from being seen directly.
Others	

(Name of Facilities) I-4 BENGUET PROVINCIAL HOSPITAL

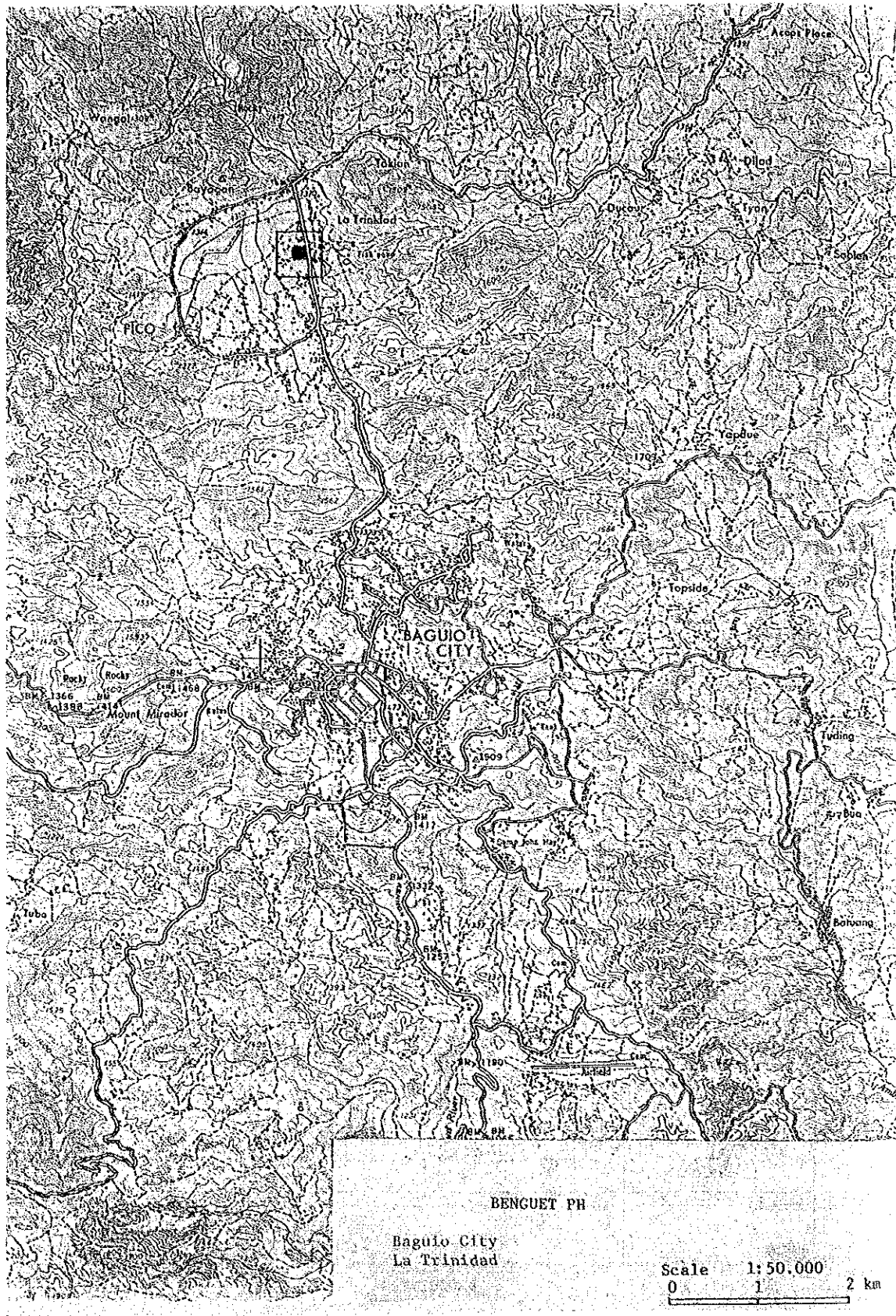
Sheet 1 (medical care)

A	Area	Region I	Location La Trinidad	Special feature of location Mountain basin
B	Treatment scale Rank	Current MC·RH (PH)·EH	Requested PH.	Project PH.
	Bed capacity () actual	Current 100 (119)	Requested 200	Jugement 100
	Outpatients per day	Current 93.3	Requested	Project 100
C	Staff Total (Dr/N)	Current 106 (15/41)	Requested	Project 131 (11/46)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-GYNE, Pediatrics		New additions
	Special fields	Current Malnutrition Infectious disease ward		
E	Sections Ward	Current Internal 35%, Surgical 11%, Pediatrics 32%, OB-GYNE 12%, Neonates 17%, ICU CCC (each 1 ^B), TB2 ^B (4 ^B)	Requested	Project
	Out Patient	Current		
	Central treatment	Rehabilitation requested.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school			
F	System	Method of record filing		
		Food service Central dietary	Laundry	

NEW SITE

Sheet 2 (Infrastructure)

G	Site	Site area	Distance from neighboring town		Neighboring environment	
	Site condition	32,529 m ²	In the city		City Hall on the south. Fields at the back	
	Site ground	Ground condition	Groundwater level			
		Reclamation				
	Site environment	View	Terrain		Vegetation	
		Mountains are visible in the distance	Flat. Partical reclamation required		Front garden	
	Car park	Current	Requested			
		13 cars	24 cars			
H	Climate	Maximum tempera-	Mean temperature		Minimum tempera-	
	Temperature	ture (annual average)	(annual average)		ture (annual average)	
	Humidity	Mean humidity	Annual precipita-		Inundation	
	Precipitation	(annual average)	tion (annual average)		Positive	
	Wind	Maximum velocity	Wind direction		Typhoon	
			(Wet season) (Dry season)		Positive	
I	Pollution	Fly attack			Salt damage	
J					Negative	
	Existing facilities	Type	Structure	Stories	Area m ²	Year of construction
						1946
		(Sub-total) 1,330 m ²				
K	Design of existing facilities	Style	Materials		Color	
L			Wooden		Red roof	
			Elevated floor		Wall painted in yellow	
	Present condition of facilities	Water source	Drainage		Waste treatment	
	Water supply & drainage	well	Open canal		Incineration in open pit	
	Air-conditioning and others	Transported by tanker	Kitchen facilities		Laundry facilities	
		Cooling				
		None				
	Power	Supply				
		N.P.C.				
M	Others					



I-5 La Union R.H.

Item	Description
Objective	Existing diagnostic and treatment department and ward should remain and planning is to be made to provide 250-bed hospital in conformity with standard plan.
Existing buildings	Main building is to be remodeled, except for exterior walls, to out-patient and administrative departments, two south wards will be remained as they are, north wards will be remodeled to pharmacy and library, and pay ward will be used as it is. Nurses' quarters will be demolished except new ones and warehouses and similar structures will be demolished.
Extensions	<p>- Hospital -</p> <p>2-story central diagnostic & treatment building, 2-story ward with 200 beds, service building and morgue will be newly constructed.</p> <p>- Quarters -</p> <p>Residence of Chief of hospital, doctors' residences, nurses' quarters will be newly constructed.</p>
Environment, site layout and exterior facilities	<p>Parking area, roads in site and guardroom will be newly constructed. Existing tennis court will remain as it is.</p> <p>Three zones of hospital, quarters and training schools will be separated to each other.</p>
Functions, departments and future plan	More increase in population in La Union is expected than other areas, future extension of one central diagnostic & treatment building and one ward will be planned in this site.
Others	Existing nurses' training center at south side of the site will be used as it is.

(Name of Facilities) I-5 LA UNION REGIONAL HOSPITAL

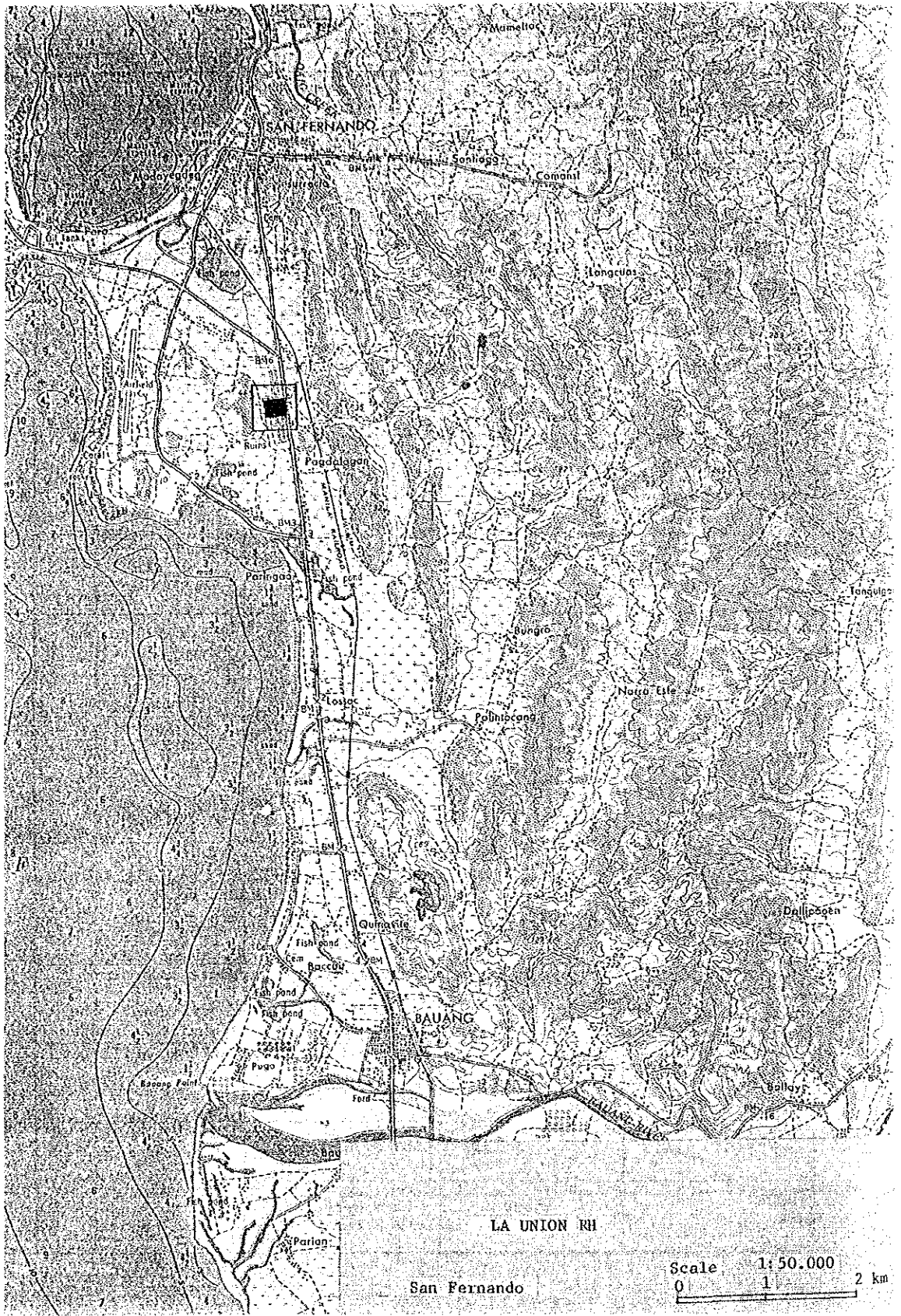
Sheet 1 (medical care)

A	Area	Region I	Location San Fernando	Special feature of location Coastal town
B	Treatment scale	Current	Requested	Project
	Rank	MC·RH (PH) EH	RH.	RH.
	Bed capacity () actual	Current 150 ()	Requested 300	Jugement 200 + 50
	Outpatients per day	Current 148.0	Requested	Project 250
C	Staff Total (Dr/N)	Current 174 (25/58)	Requested	Project 283 (31/108)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-GYNE, Pediatrics		
	Special fields	Current ICU, TB, Malnutrition, Infectious disease ward		
E	Sections Ward	Current Internal (65B), Surgical (55B), Pediatrics (65B), TB (20B) OB-GYNE (65B), Isolation ward, ICU (5B), CCU (7B), Infectious (9B)	Requested	Project Pay ward Installation of isolation ward
	Out-Patient	Current		
	Central treatment	Rehabilitation required.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school	Existing school of nursing.		
F	System	Method of record filing		
		Food service Central dietary	Laundry	

NEW SITE

Sheet 2 (infrastructure)

G	Site Site condition	Site area 40,700 m ²	Distance from neighboring town 5 min. by car from the city		Neighboring environment Residential district	
	Site ground	Ground condition Reclaimed	Groundwater level			
	Site environment	View Average	Terrain Partial reclama- tion required		Vegetation Front garden	
	Car park	Current	Requested			
H	Climate Temperature	Maximum tempera- ture (annual average)	Mean temperature (annual average)		Minimum tempera- ture (annual average)	
	Humidity Precipitation	Mean humidity (annual average)	Annual precipita- tion (annual average)		Inundation None	
	Wind	Maximum velocity	Wind direction (Wet season) Summer SW (Dry season) Winter NE		Typhoon Negative	
	Pollution	None				Salt damage Negative
J	Existing facilities	Type	Structure	Stories	Area m ²	Year of construc- tion Completed in 1953
		(Sub-total) 2,250 m ²				
K	Design of existing facilities	Style Colonial	Materials RC. Iron plate roofing		Color Green roof White wall	
L	Present condition of facilities	Water source	Drainage		Waste treatment	
	Water supply & drainage	Well	Infiltration into the site		Recovery by the municipal system	
	Air-condition- ing and others	Cooling	Kitchen facilities		Laundry facilities	
	Power	Supply N.P.C.				
M	Others					



Item	Description
Site objective	Plot plan considerably different from the standard plan will be needed since site is relatively narrow and many existing buildings are still usable.
Existing buildings	Old main building is badly deteriorated and will be demolished, and other newer main building will be remodeled to ward and administrative departments. Family planning ward is to be remodeled to ward, mal nutrition ward will be used as it is, and part of quarter will be used as it is.
Extension	<p>- Hospital -</p> <p>Central diagnostic and treatment building, service building, and mortuary will be newly constructed.</p> <p>- Quarters -</p> <p>Doctors' houses, and nurses' quarters will be constructed.</p>
Environment, site layout and exterior facilities	Since there is possibility of ponding, levels of buildings and exterior corridors must be raised above ground level. Parking area and part of road in site are to be newly constructed. Two large mango trees near existing entry are to be remained as they are.
Functions and departments	Ward dietary system was requested by hospital but this will be discussed further since this differs from standard plan.
Others	

(Name of Facilities) I-6 ABRA PROVINCIAL HOSPITAL

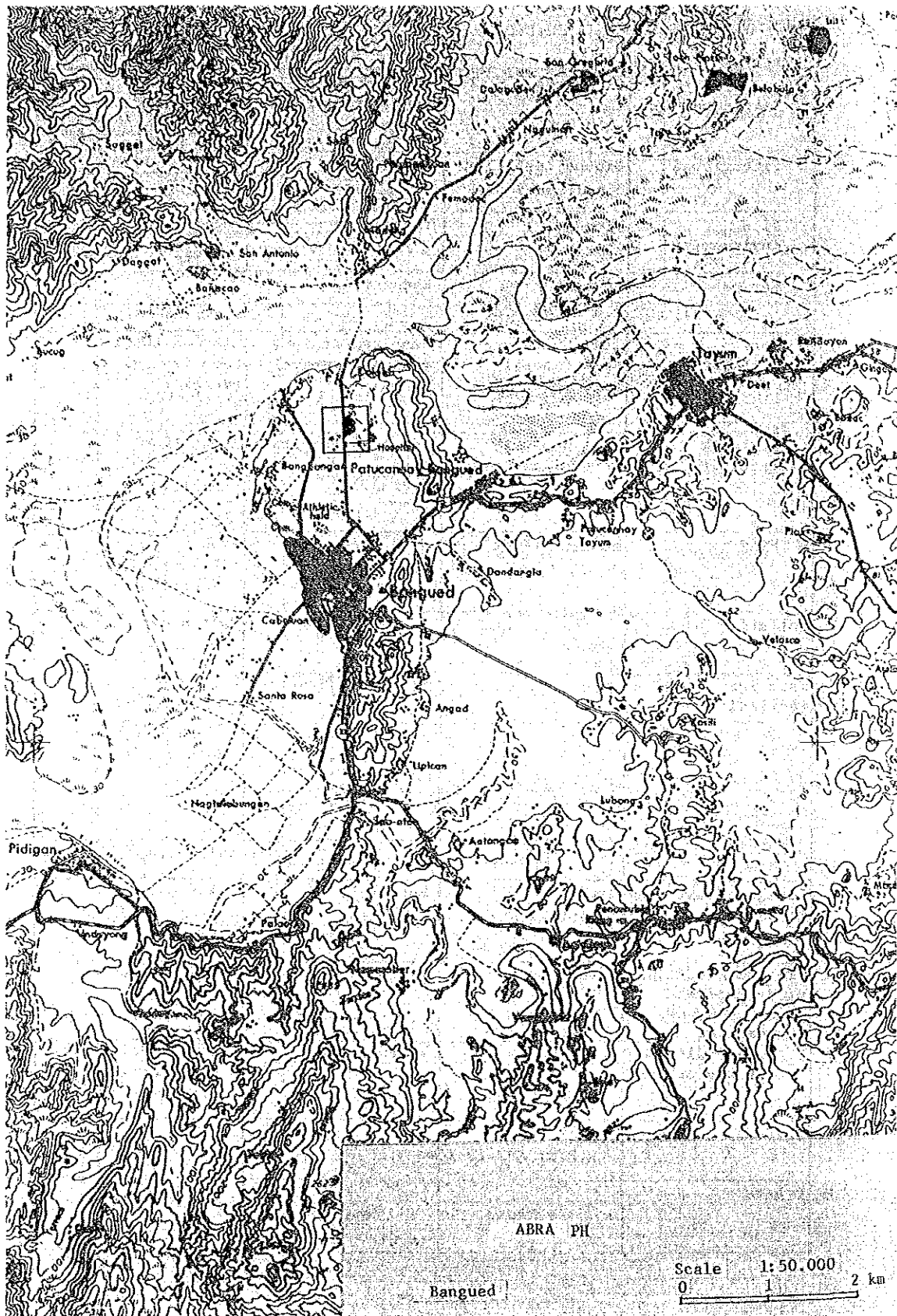
Sheet 1 (medical care)

A	Area	Region I	Location Bongued	Special feature of location Basin
B	Treatment scale Rank	Current MC·RH (PH) EH	Requested PH.	Project PH.
	Bed capacity () actual	Current 100 (110)	Requested 100	Jugement 100
	Outpatients per day	Current 1.0	Requested	Project
C	Staff Total (Dr/N)	Current 7.6 (4/30)	Requested	Project 131 (11/46)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-GYNE, Pediatrics		
	Special fields	Current Infectious		
E	Sections Ward	Current Internal 45B, Surgical 10B, Pediatrics 30B, OB-GYNE 15B, Neonates 10B, CCU ICU (each 1B), Infectious (5B), TB2B (3B)	Requested	Project
	Out-Patient	Current Family planning in separate block.		
	Central treatment			
	Administration			
	Service			
	Living quarters	Current		Project
	Training school			
F	System	Method of record filing		
		Food service Ward dietary	Laundry	

NEW SITE

Sheet 2 (infrastructure)

G	Site	Site area	Distance from neighboring town	Neighboring environment
	Site condition	10,000 m ²	Approx. 1.5 km from the city	Residential district, Fields at the back
	Site ground	Ground condition Reclamation	Groundwater level Shallow	
	Site environment	View Average	Terrain Flat	Vegetation 2 giant mango trees in front garden
H	Car park	Current 8 cars	Requested	
	Climate	Maximum temperature (annual average)	Mean temperature (annual average)	Minimum temperature (annual average)
	Humidity	Mean humidity (annual average)	Annual precipitation (annual average)	Inundation
	Precipitation			Positive
I	Wind	Maximum velocity	Wind direction (Wet season) (Dry season)	Typhoon Negative (for the facilities)
	Pollution	None		Salt damage Negative
	Existing facilities	Type	Structure	Stories
				Area m ²
J				Year of construction 1974
				(Sub-total) 1,300 m ²
	Design of existing facilities	Style Various styles	Materials Wooden, RC (elevated floor)	Color Green roof, White wall
	Present condition of facilities	Water source	Drainage	Waste treatment
L	Water supply & drainage	Well	Open canal+ Rice field	Incineration in open pit
	Air-conditioning and others	Cooling	Kitchen facilities	Laundry facilities
				No space at present
	Power	Supply N.P.C.		
M	Others			



1-7 Gabriela-Silang P.H.

Item	Description
Site objective	Since buildings are deteriorated, reconstruction will be made mainly in newly added site.
Existing buildings	Existing church will remain as it is. Other buildings are badly deteriorated and, therefore, will be all demolished.
Extension	<p>- Hospital -</p> <p>Using standard plan, buildings will be constructed mainly in added site. However, since new site has steeper slope compared to existing site, exterior corridor must be sloped accordingly.</p> <p>- Quarters -</p> <p>Residences for four top officials, doctors' houses and employees quarters will be newly constructed.</p>
Environment, site layout and exterior facilities	<p>Area closer to city at right side when faced to the site will be used as hospital zone and left site will be used as a group of quarters.</p> <p>Approach is to be rebuilt. Road in site, storage for bicycles and parking area will be newly constructed. Front garden mainly planted with cypresses should be remained. Part of added site should be graded.</p>
Functions and departments	
Others	Church and gong tower are to be used as they are.

(Name of Facilities) I-7 GABRIELA SILANG PROVINCIAL HOSPITAL

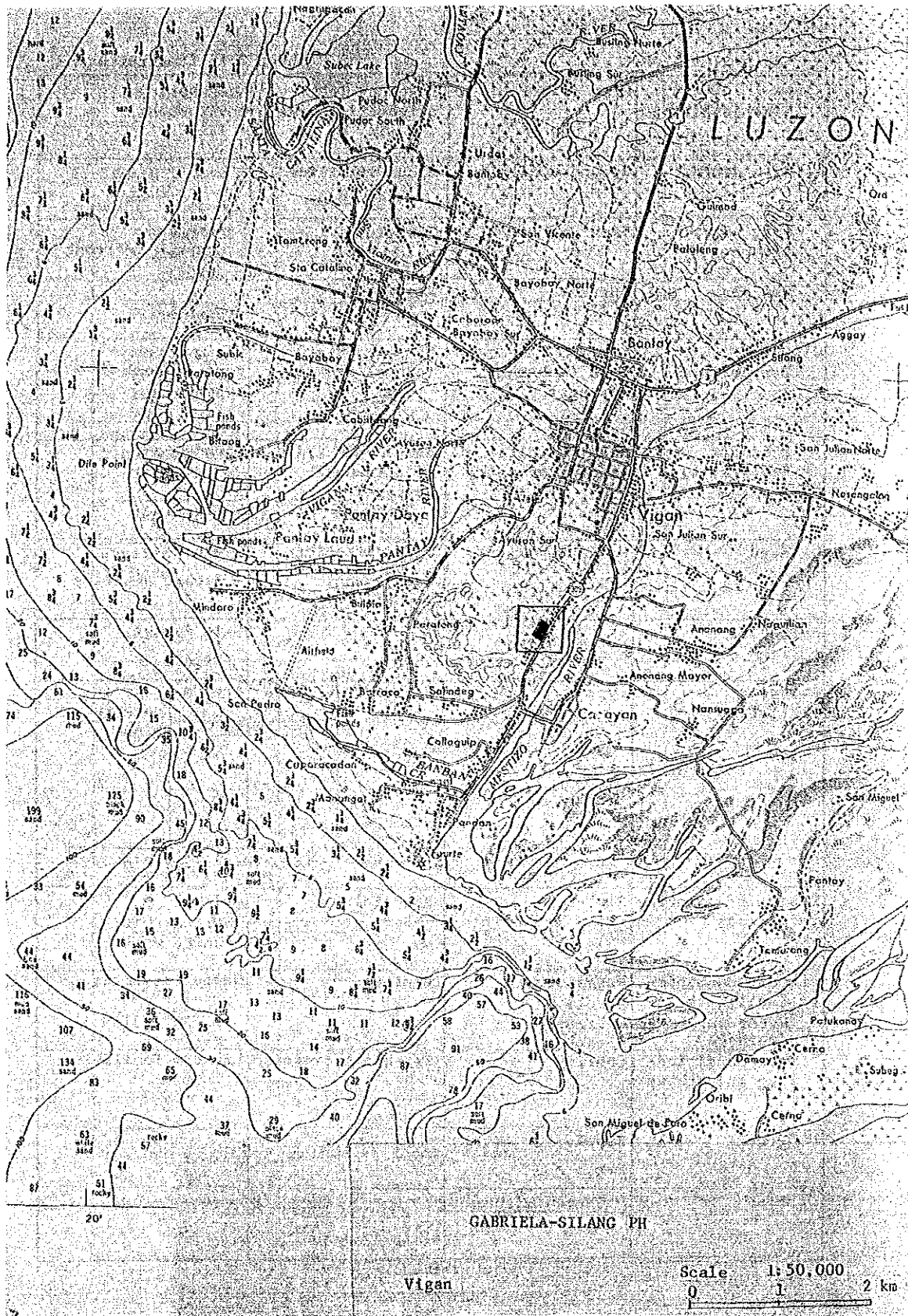
Sheet 1 (medical care)

A	Area	Region I	Location Vigan	Special feature of location Coastal town
B	Treatment scale	Current	Requested	Project
	Rank	MC·RH (PH) EH	PH	PH
	Bed capacity () actual	Current 100 (88)	Requested 200	Jugement 100
	Outpatients per day	Current 65.0	Requested	Project 100
C	Staff Total (Dr/N)	Current 96 (9/37)	Requested	Project 131 (11/46)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-GYNE, Pediatrics		
	Special fields	Current ICU, Malnutrition, Infectious disease ward		
E	Sections Ward	Current Internal 40B(40B), Surgical 20B(20B), Pediatrics 20B(20B), OB-GYNE 20B(20B), Neonates 6B(8B), Cancer (10B), Infectious (6B)	Requested	Project
	Out-Patient	Current		
	Central treatment	Rehabilitation required.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school			
F	System	Method of record filing		
		Food service Central dietary	Laundry	

NEW SITE

Sheet 2 (infrastructure)

G	Site	Site area	Distance from neighboring town		Neighboring environment	
	Site condition	25,000 m ²	5 min. by car		Fields	
	Site ground	Ground condition	Groundwater level			
	Site environment	View Good	Terrain Inclined		Vegetation Cypress in front garden	
	Car park	Current 12 cars	Requested 16 cars			
H	Climate	Maximum tempera- ture (annual average)	Mean temperature (annual average)		Minimum tempera- ture (annual average)	
	Temperature	30.9°C	26.9°C		23.1°C	
	Humidity	Mean humidity (annual average)	Annual precipita- tion (annual average)		Inundation	
	Precipitation	80%	2,255 mm		Negative	
	Wind	Maximum velocity 15.9	Wind direction (Wet season) ^{SSW} (Dry season) ^{Winter} _N		Typhoon Almost negative	
I	Pollution	Fly attack Mosquito attack			Salt damage Negative	
J	Existing facilities	Type	Structure	Stories	Area m ²	Year of construc- tion
		(Sub-total) 2,240 m ²				
K	Design of existing facilities	Style	Materials		Color Green roof, White wall	
L	Present condition of facilities	Water source Well, Transported by tanker	Drainage		Waste treatment	
	Water supply & drainage	Cooling	Kitchen facilities		Incineration in open pit	
	Air-condition- ing and others				Laundry facilities	
	Power	Supply N.P.C				
M	Others	Church with campanile				



I-8 Don M. Marcos M.H.

Item	Description
Objective	5-story reinforced concrete building under construction expected to be completed soon. Then, medical equipment, supplies and furnitures will be supplied to this new buildings, and construction of power house will be done.
Existing buildings	Existing ward and administrative building will be partially remodeled to quarter. Remaining portion will be, without remodeling, used as storage, training center, dressing room and so forth.
Environment, site layout and exterior facilities	
Functions, departments and future plan	Area behind the buildings under construction should be reserved as space for future extension of wards.
Others	

(Name of Facilities) 1-8 DON MARIANO MARCOS MEMORIAL HOSPITAL

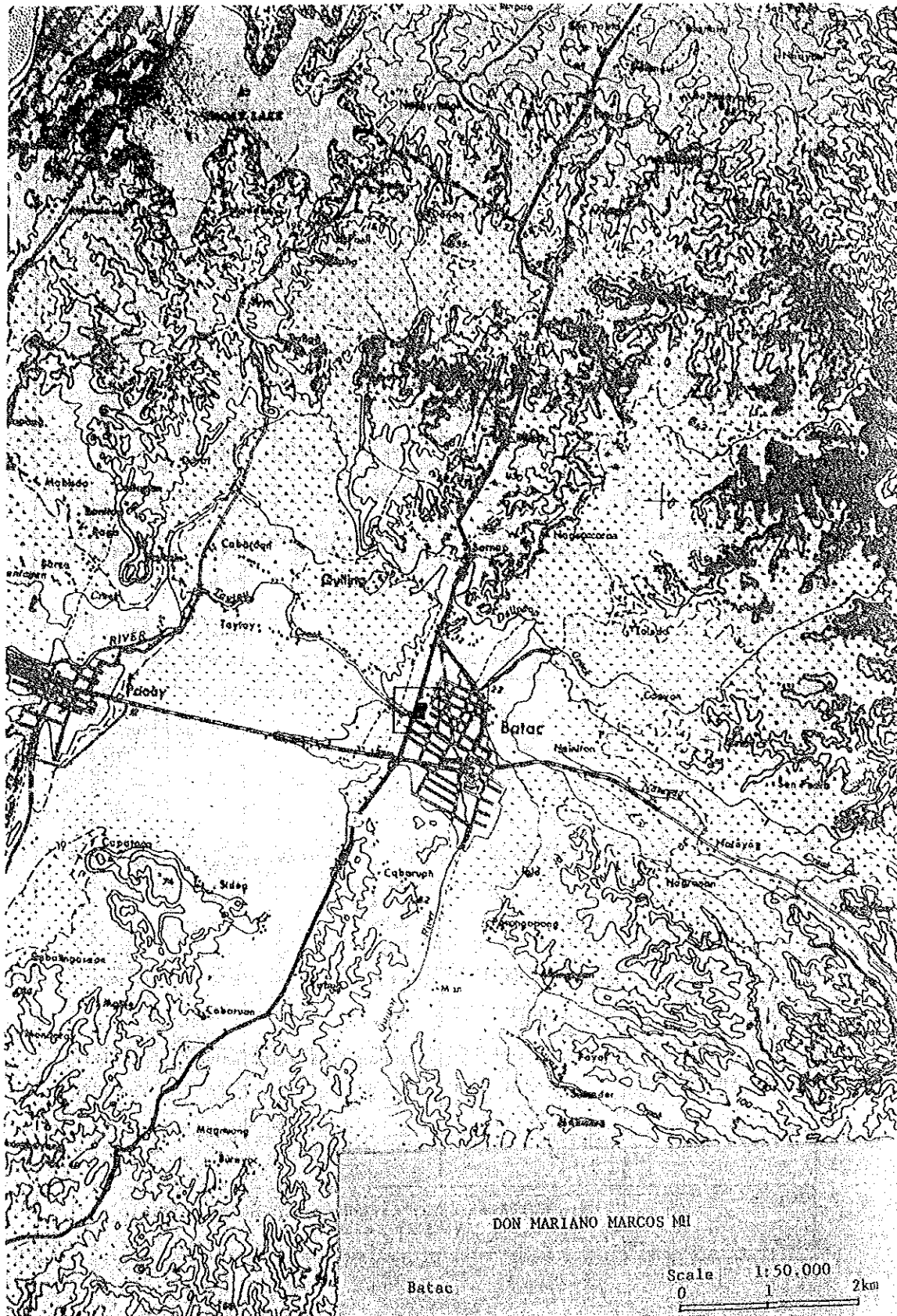
Sheet 1 (medical care)

A	Area	Region I	Location Batac	Special feature of location Plain
B	Treatment scale	Current	Requested	Project
	Rank	MC (RH) PH • EH	MC.	MC.
	Bed capacity () actual	Current 200 (100)	Requested 300	Jugement 100
C	Outpatients per day	Current 52.0	Requested	Project 200
	Staff Total (Dr/N)	Current 143 (12/61)	Requested	Project 206 (24/76)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-GYNE, Pediatrics		
	Special fields	Current ICU, Infectious disease ward		
E	Sections Ward	Current ICU ^{1B} , Internal 40 ^B , Surgical 40 ^B , Pediatrics 3 ^B , OB-GYNE 5 ^B , Neonates 6 ^B , Cancer 2 ^B TB(10 ^B), Infectious (10 ^B)	Requested	Project
	Out-Patient	Current		
	Central treatment	Rehabilitation required.		
	Administration			
	Service			(Construction of power house)
	Living quarters	Current		Project
	Training school			
F	System	Method of record filing		
		Food service Central dietary	Laundry	

NEW SITE

Sheet 2 (infrastructure)

G	Site	Site area	Distance from neighboring town		Neighboring environment
	Site condition	24,245 m ²	Within 1 km from the town, 10 min by car		Suburbs
	Site ground	Ground condition	Groundwater level		
		Sandy			
H	Site environment	View	Terrain		Vegetation
		Good	Flat		Coconut trees in the surroundings
	Car park	Current	Requested		
		26 cars	50 cars		
I	Climate	Maximum temperature (annual average)	Mean temperature (annual average)		Minimum temperature (annual average)
	Temperature				
	Humidity	Mean humidity (annual average)	Annual precipitation (annual average)		Inundation
	Precipitation				Negative
J	Wind	Maximum velocity	Wind direction (Wet season) SE (Dry season) NE		Typhoon
					Negative
	Pollution	Fly attack Mosquito attack			Salt damage
					Negative
K	Existing facilities	Type	Structure	Stories	Area m ²
					Year of construction
					1967
		(Sub-total) 2,170 m ²			
L	Design of existing facilities	Style	Materials		Color
		Modern construction	Reinforced concrete, 5-storied		Bear concrete
	Present condition of facilities	Water source	Drainage		Waste treatment
	Water supply & drainage	Deep well	Open canal		Open pit disposal
M	Air-conditioning and others	Cooling	Kitchen facilities		Laundry facilities
	Power	Supply			
		N.P.C.			
M	Others	Main building under construction; 80% completed.			



I-9 Ilocos Norte P.H.

Item	Description
Objective	Existing conditions are fairly good but capacity is insufficient. Thus, addition is necessary and remodeling has to be done accordingly.
Existing facilities	Hospital officials suggested new addition of 2nd floor above 1-story main building but this is technically impossible. Deteriorated portions of service building and quarters are to be demolished leaving only the usable space as it is.
Extension and remodeling	<p>-- Hospital --</p> <p>2-story central diagnostic & treatment building and ward are to be newly added. 2-story service building is to be newly built on 2.5 m lower level at northwestern side of the site. Morgue is to be also constructed. Main building having out-patient and administration departments will be partially remodeled.</p> <p>-- Quarters --</p> <p>Employees' quarter will be partially rebuilt. However, due to narrow site, residence for Chief of Hospital, houses for three top officers and doctors' houses will be constructed outside of the site and will not be included in this project.</p>
Environment, site layout and exterior facilities	<p>Service related facilities will be provided mainly in area with dropped level. Sloped passage will be needed. Front yard should be left as it is.</p> <p>Requirements of parking area for 41 cars cannot be met because of insufficient site area so that part of parking area will be provided in adjacent lot, if possible.</p>
Functions, departments and others	Construction of training class is not included in this project.

(Name of Facilities) I-9 ILOCOS NORTE PRIVINCIAL HOSPITAL

Sheet 1 (medical care)

A	Area	Region I	Location Laoag city	Special feature of location Plain near the sea
B	Treatment scale Rank	Current MC·RH (PH) EH	Requested PH	Project PH
	Bed capacity () actual	Current 100 (163)	Requested 200	Jugement 200
	Outpatients per day	Current 81	Requested	Project 200
C	Staff Total (Dr/N)	Current 119 (17/53)	Requested	Project 206 (24/76)
D	Medical Departments Major fields	Current Internal medicine, Surgery, OB-CYNE, Pediatrics		Added today
	Special fields	Current ICU, Infectious disease ward		
E	Sections Ward	Current Internal 54 ^B , Surgical 24 ^B , Pediatrics 16 ^B , OB-CYNE 14 ^B RR1 ^B , ICU 2 ^B (6 ^B), CCU (2 ^B), TB6 ^B (16 ^B), Infectious 2 ^B (2 ^B)	Requested	Project
	Out-Patient	Current		
	Central treatment	Rehabilitation requested.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school	Existing wooden classroom.		
F	System	Method of record filing		
		Food service Laundry Current: central dietary Requested: ward dietary		

NEW SITE

Sheet 2 (infrastructure)

G	Site	Site area	Distance from neighboring town		Neighboring environment	
	Site condition	12,000 m ²	10 min. Center of town		Residential district	
	Site ground	Ground condition	Groundwater level			
	Site environment	View Good	Terrain Flat with a partial drop		Vegetation Ample	
	Car park	Current 14 cars	Requested 41 cars			
H	Climate	Maximum tempera- ture (annual average)	Mean temperature (annual average)		Minimum tempera- ture (annual average)	
	Temperature	37.7°C	26.8°C		16.2°C	
	Humidity	Mean humidity (annual average)	Annual precipita- tion (annual average)		Inundation	
	Precipitation	77.6%	2,001.7 mm		Negative	
	Wind	Maximum velocity 145 Kph	Wind direction N (Wet season) Spring SE (Dry season) Summer SE		Typhoon Negative	
I	Pollution	Fly attack Mosquito attack			Salt damage Negative	
J	Existing facilities	Type	Structure	Stories	Area m ²	Year of construc- tion 1939 year
		(Sub-total) 1,690 m ²				
K	Design of existing facilities	Style Colonial style	Materials RC		Color White wall	
L	Present condition of facilities	Water source	Drainage		Waste treatment	
	Water supply & drainage	well	Rice field		Incineration in open pit	
	Air-conditioning and others	Cooling	Kitchen facilities		Laundry facilities	
					To be washed in the river	
	Power	Supply N.P.C.				
M	Others					

II-1 Cagayan R.H.

Item	Description
Site objective	Since scale of existing site is insufficient, 300-bed hospital will be newly constructed in new site.
New buildings	<p>- Hospital -</p> <p>New 2-story building of 300-bed standard plan will be constructed. However, service department will be built with extra capacity sufficient for serving also to adjacent mental hospital.</p> <p>- Quarters -</p> <p>Four top officers' residences including Chief of Hospital, doctors' houses, and male and female employees' quarters will be newly constructed.</p>
Environment, site layout and exterior facilities	Hospital will be located adjacent to north-eastern TB hospital and group of quarters will be mostly located at other side. Parking area, bicycle storage, guardroom and road will be provided in site. Grading will be needed due to existing irregularity in site.
Functions, departments and future plan	Extension of central diagnostic and treatment department and out-patient department, and extension of one ward should be planned for the future. Cobalt 60 facility was requested but this should be built in future.
Others	Existing buildings in existing site of hospital will be left as they are and excluded from this project.

(Name of Facilities) II-1 CAGAYAN REGIONAL HOSPITAL

Sheet 1 (medical care)

A	Area	Region	Location	Special feature of location
		II	Tuguegarao	
B	Treatment scale	Current	Requested	Project
	Rank	MC(RH) PH-EH	RH	RH
	Bed capacity () actual	Current 200 ()	Requested 300	Jugement 300
C	Outpatients per day	Current 250	Requested	Project 300
	Staff	Current	Requested	Project
	Total (Dr/N)	136 (23/15)		363 (41/141)
D	Medical Departments	Current		
	Major fields	Internal medicine, Surgery, OB-GYNE, Pediatrics		
E	Special fields	Current		
		Infectious disease ward		
F	Sections	Current	Requested	Project
	Ward	ICU(2B), CCU(2B), TB(6B), Infectious 4B(8B)		
	Out-Patient	Current		
	Central treatment	Installation of Cobalt-60 requested.		To be planned in future.
		Rehabilitation requested.		
	Administration			
	Service			
	Living quarters	Current		Project
	Training school			
F	System	Method of record filing		
		Food service Central dietary	Laundry	

NEW SITE

Sheet 2 (Infrastructure)

G	Site Site condition	Site area	Distance from neighboring town 10 min. by car from Tuguegarao		Neighboring environment Plain: next to the TB hospital	
	Site ground	Ground condition Clay	Groundwater level			
	Site environment	View Good	Terrain Undulated		Vegetation Weeds	
	Car park	Current	Requested			
H	Climate Temperature	Maximum tempera- ture (annual average) 33.1°C	Mean temperature (annual average) 27.9°C		Minimum tempera- ture (annual average) 22.1°C	
	Humidity Precipitation	Mean humidity (annual average) 77.5%	Annual precipita- tion (annual average) 1,732.7 mm		Inundation Negative	
	Wind	Maximum velocity 178 Kph	Wind direction (Wet season) SW (Dry season) NE		Typhoon Negative	
I	Pollution	None				Salt damage Negative
J	Existing facilities	Type	Structure	Stories	Area m ²	Year of construc- tion
		(Sub-total) 1,520 m ²				
K	Design of existing facilities	Style	Materials		Color	
L	Present condition of facilities	Water source Well	Drainage Street sewerage		Waste treatment Recovery by the muni- cipal system; inci- neration in open pit	
	Water supply & drainage	Air-condition- ing and others	Cooling	Kitchen facilities	Laundry facilities Washing in the river	
	Power	Supply Private franchise				
M	Others					

