c. Audio-Visual Equipment; Training Materials Production Equipment and others.

d. Vehicles: Outdoor Production Car, Video Training Van and supplementary vehicles.

e. Language Laboratory Equipment

f. Communication System

g. Others

2. Program II

(1) Building

a. Offices

b. Laboratories for Environmental, Biological and Micro-Biological Research

c. Oyster Treatment Facility (including Sterilization and Freezing)

d. Seawater Intake System

e. Others

(2) Equipment

a. Oyster Culture Experiment Equipment

b. Manmade Oyster Purification Test Equipment

c. Environmental Research Equipment

d. Biological Research Equipment

e. Micro-Biological Research Equipment

f. Small Boat with Out-board Engines

g. Audio-Visual Equipment

h. Vehicles: Video Training Van and Small Truck with Trailer

i. Others

3. Program III

(1) Building

a. Offices

b. Lecture Rooms
c. Audio-Visual Room
d. Drawing Room
e. Conference Room
f. Work Shops
g. Others

(2) Equipment and Machinery

a. Heavy Construction Machineries including service equipment
b. Equipment for Construction Machine Maintenance
c. Steelwork and Rebarwork equipment
d. Welding Work Equipment
e. Electrical Work Equipment
f. Plumbing Work Equipment
g. Concrete Hollow Block Work Equipment
h. Audio-Visual Equipment
i. Vehicles: Video Training Van and Micro-bus
j. Others

4. Program IV

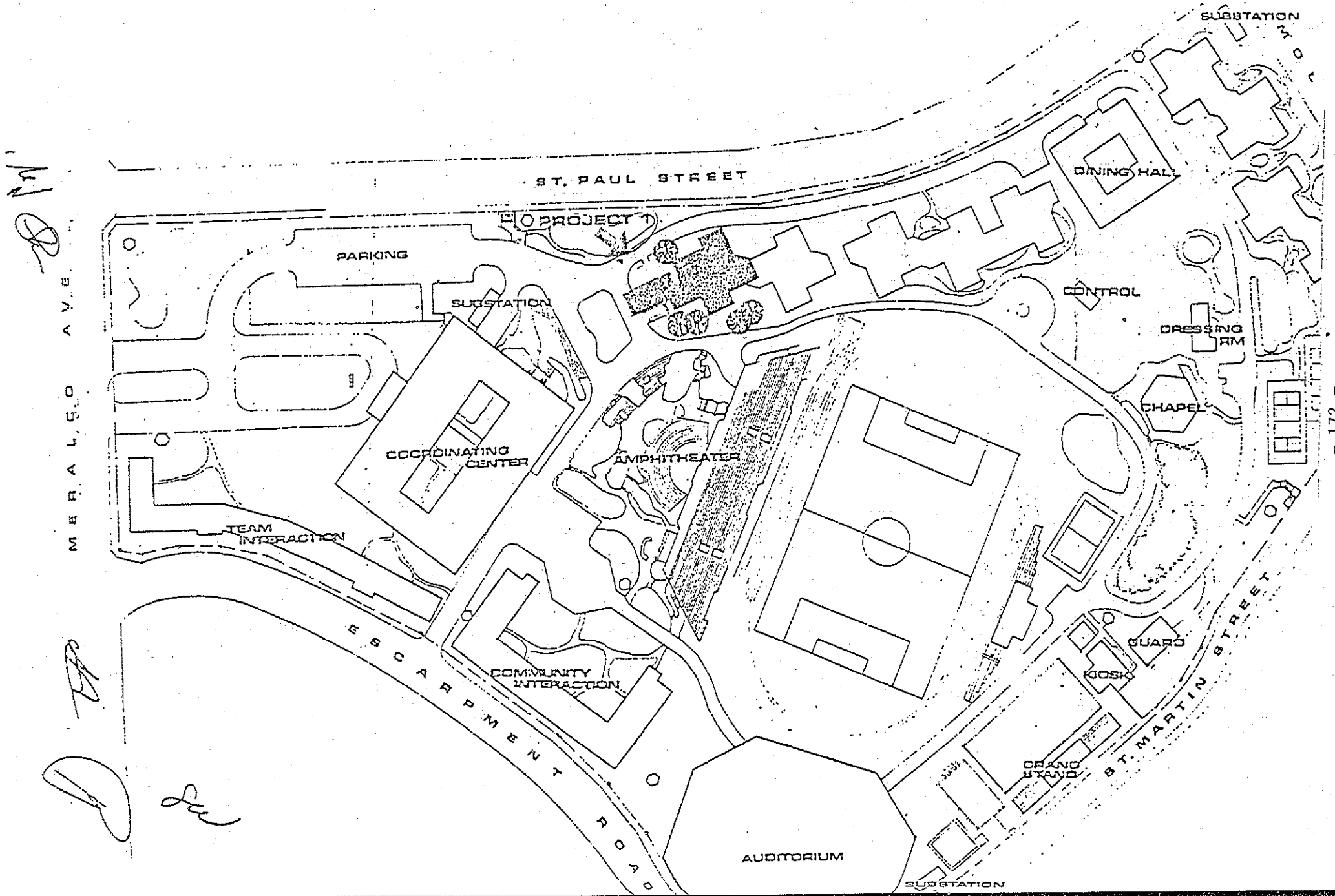
(1) Equipment and Machinery

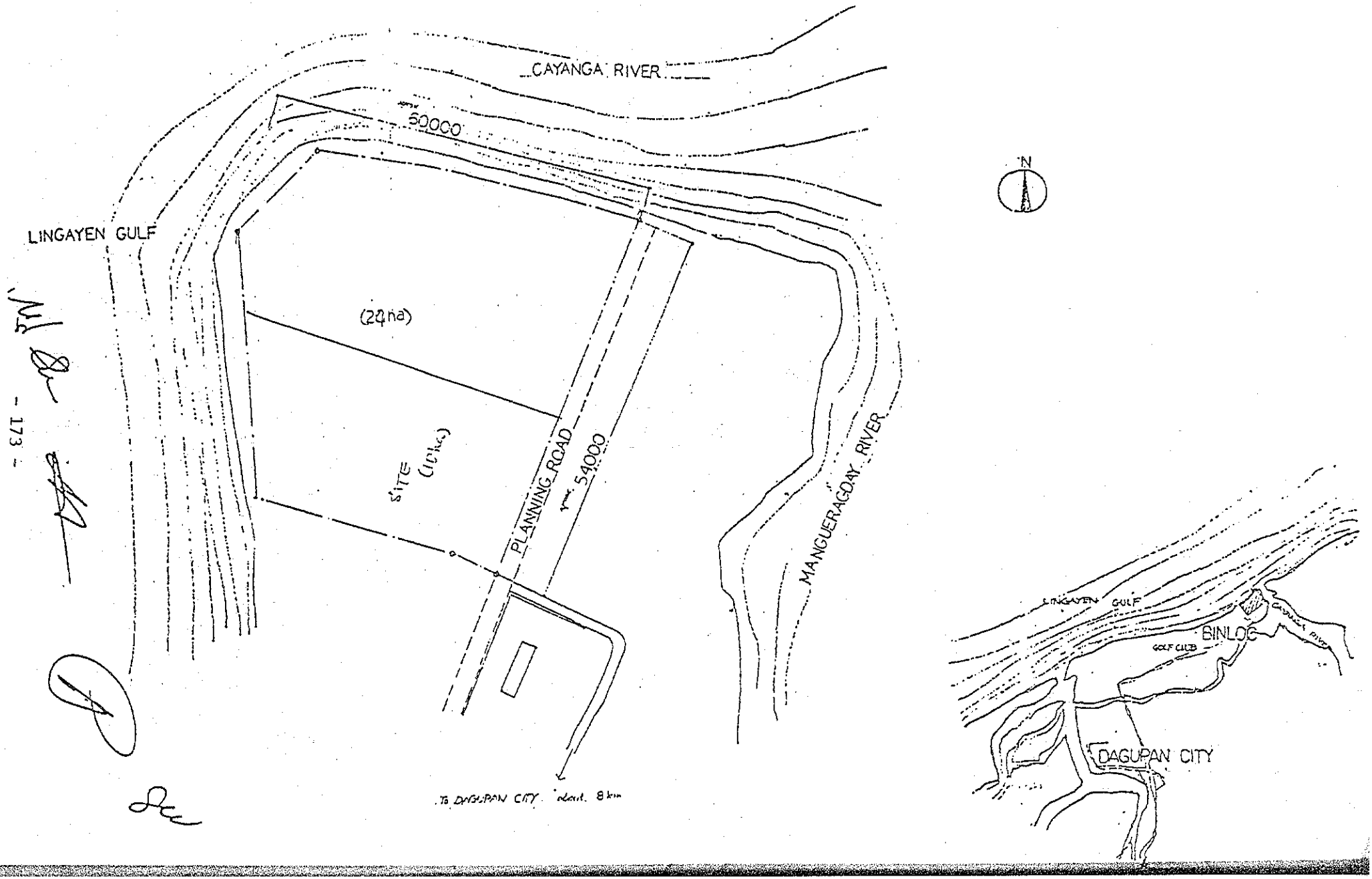
a. Equipment for Woodwork, Bamboo Craft, and Rattan Craft with Installation Services.
b. Audio-Visual Equipment
c. Vehicles: Video Training Vans and supplementary vehicle
d. Others

ANNEX II

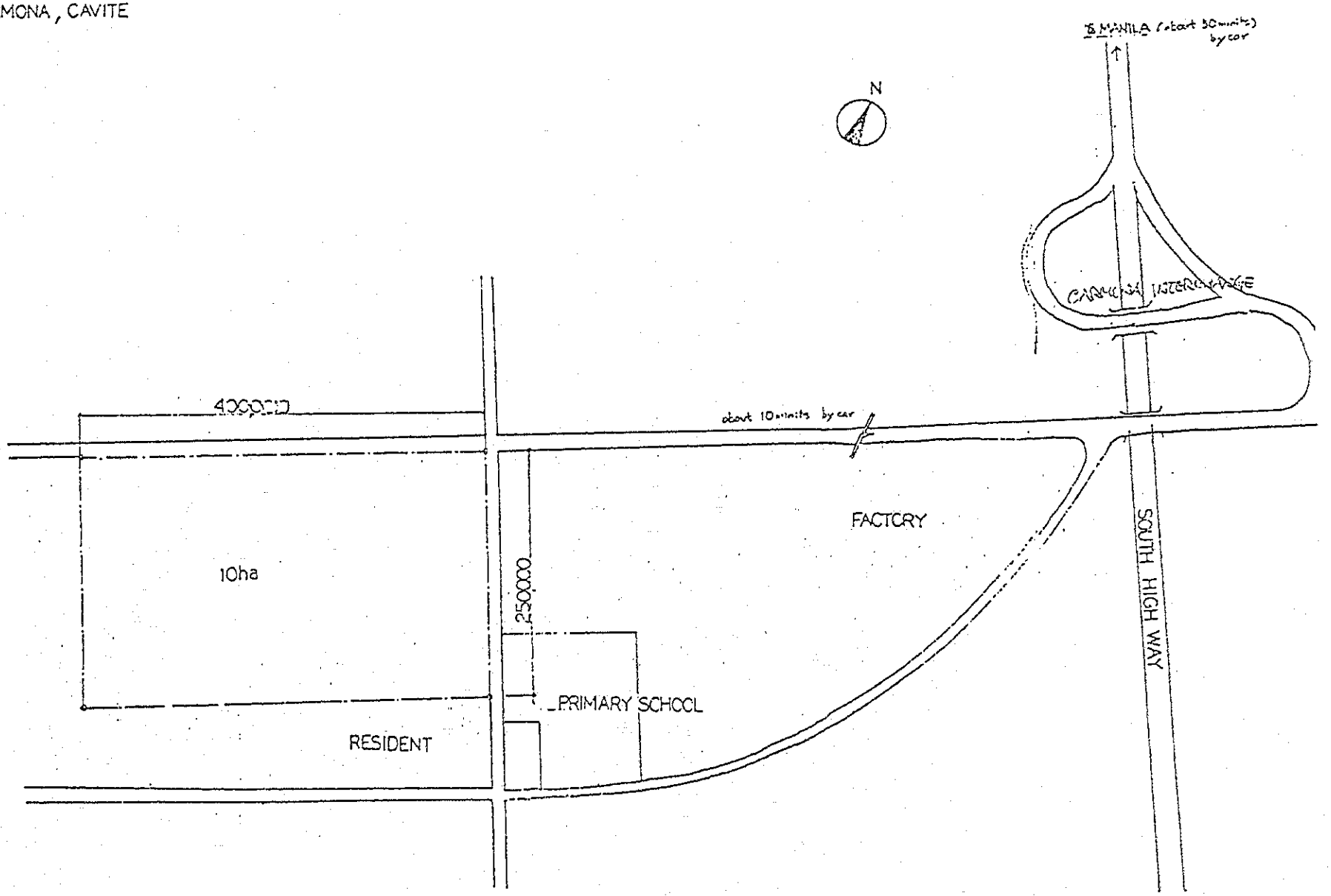
Items whose costs will be covered by the Government of the Philippines for the Project:

(1) Water supply mains to the Project sites or deep-well in the site.
(2) External drainage from the project site.
(3) Electrical power supply to the buildings.
(4) External facilities and landscaping.
(5) Provision of space necessary for construction and renovation (temporary offices, working area, stock yards and others)
(6) Furniture, carpet, curtains and other furnishings.
(7) Maintenance, operation cost and expenses.
(8) Telephone lines to the buildings.

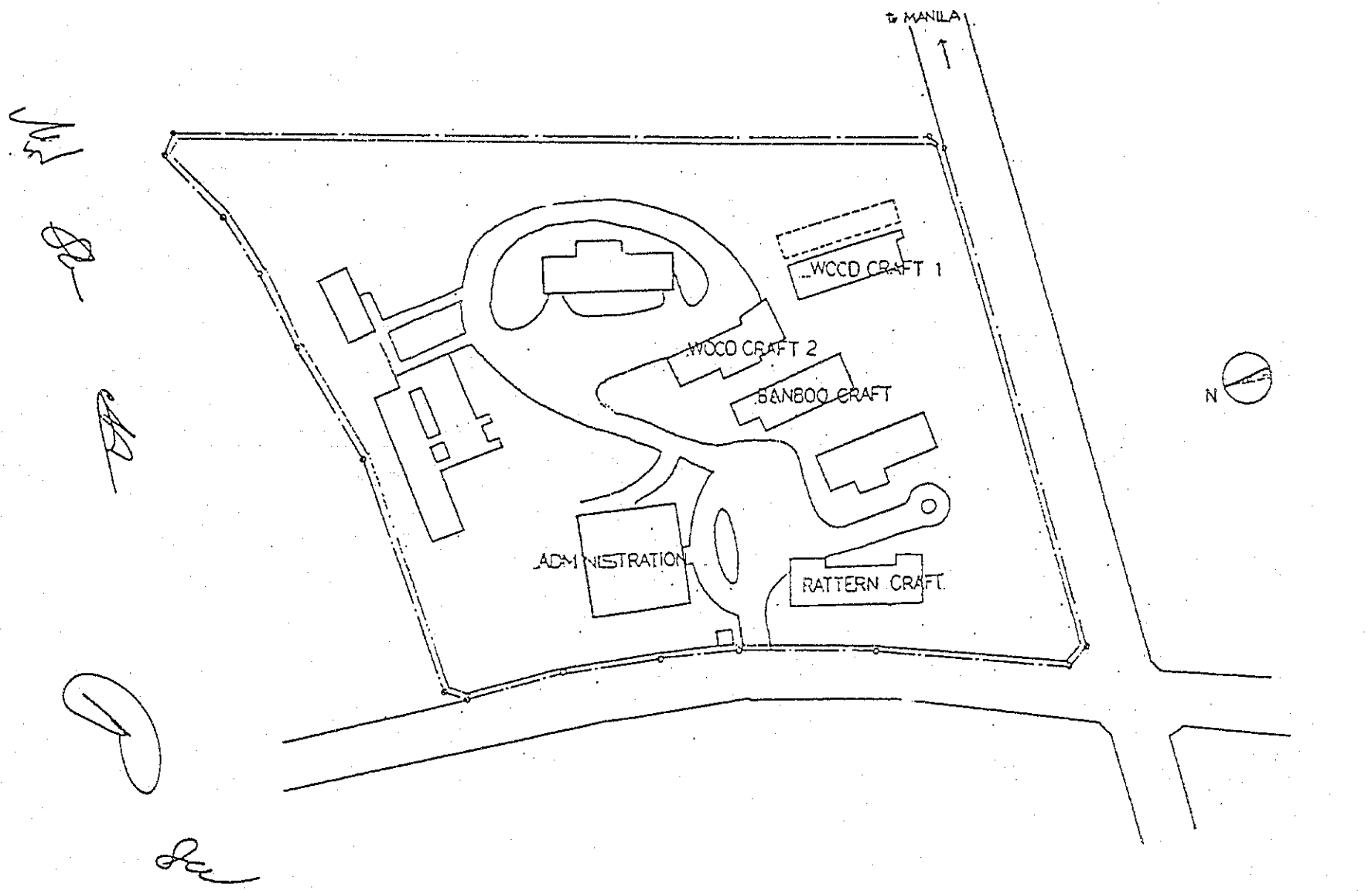

SUBSTATION
ST. PAUL STREET
PROJECT 1
DINING HALL
PARKING
SUBSTATION
CONTROL
DRESSING RM
CHAPEL
COORDINATING CENTER
AMPHITHEATER
TEAM INTERACTION
ESCARPMENT ROAD
COMMUNITY INTERACTION
GUARD
KIOSK
GRAND STAND
ST. MARTIN STREET
AUDITORIUM
SUBSTATION


CAYANGA RIVER
50000
LINGAYEN GULF
(24 ha)
SITE (16 ha)
PLANNING ROAD
54000
MANGUEREGDAY RIVER
N
To DAGUPAN CITY. about. 8 km
LINGAYEN GULF
BINLOC
GOLF CLUB
DAGUPAN CITY

PROGRAM = 3 ... CARMONA, CAVITE



PROGRAM - 4 .C.I.I.C.(NACIDA). MARIKINA ...METRO-MANILA.



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5. MINUTES OF DISCUSSIONS ON THE BASIC DESIGN CONFIRMATIONSURVEY

MINUTES OF DISCUSSIONS

ON

THE DRAFT REPORT OF THE BASIC DESIGN STUDY

ON

THE PHILIPPINE HUMAN RESOURCES DEVELOPMENT CENTER PROJECT

The government of Japan has sent, through Japan International Cooperation Agency (JICA), a Basic Design Study Team to the Philippines from 17 to 21 December, 1982 for the purpose of presenting and explaining the draft of final report of the Basic Design Study (the report) on the Philippine Human Resources Development Center Project in the Republic of the Philippines.

The team held meetings with the Philippine technical panel composed of representatives from the Ministry of Human Settlements, University of Life, National Cottage Industries Development Authority, Construction Manpower Development Foundation and the Ministry of Foreign Affairs to explain and to discuss on the report. As a result of the discussions, both parties have agreed as follows:

1. The report principally satisfied the Philippine side and appropriate alterations in design agreed during the discussions will be incorporated in the Final Report.
2. The Final Report (15 copies in English) on the project will be submitted to the Philippine Government by the end of February, 1983.
3. The Basic Design Survey Team and the Government of the Republic of the Philippines understood and confirmed the measures to be undertaken by both parties for the project.

17 December, 1982

Grace E de Vera

GRACE E. DE VERA
Acting Secretary-General
Philippine Human Resources
Development Center Project

TAKESHI IMAZU
Leader, Survey Team
Philippine Human Resources
Development Center Project

6. THE MEMBER LIST OF THE PHILIPPINE COUNTERPARTS

PHILIPPINE HUMAN RESOURCES DEVELOPMENT CENTER
MEMBERS OF THE GOVERNING COUNCIL

MHS	-	Jose Conrado Benitez
MFA	-	Pacifico A. Castro
MB	-	Luis R. Baltazar
MF	-	Rodolfo Ocampo
MA	-	Aurora B. Marcos
MNR	-	Arnold Caoili
MITI	-	Jose P. Leviste, Jr.
NEDA	-	Ramon B. Cardenas
UL	-	Ernesto A. Franco (representative of JCB)

PHILIPPINE HUMAN RESOURCES DEVELOPMENT CENTER
MEMBERS OF THE STEERING COMMITTEE

MHS	-	J. Roberto Abling/or Reynaldo Bantug
MFA	-	Josue L. Villa
MB	-	Gerardo Zafra/or Ramon Bacani
MF	-	Rodolfo Ocampo
MNR	-	Antonio Capay/or Orlando Meneses
MITI	-	Santi M. Dapul
NACIDA	-	Ernesto Payoyo
CMDF	-	Alfonso V. Casimiro/or Manuel C. Remulla
NEDA	-	Reginald S. Velasco/or Aniceto M. Sobrepena
UL	-	Antonio V. Ulgado

DIRECTORY OF PHRDC MEMBERS OF THE
GOVERNING COUNCIL & STEERING COMMITTEE

Abling, J. Roberto	-	Asst. Secretary Ministry of Human Settlements
Bacani, Ramon	-	Office-in-Charge Training & Info Service & Research Staff Ministry of the Budget
Baltazar, Luis R.	-	Deputy Minister Ministry of the Budget
Bantug, Reynaldo P.	-	Director, Project Development Office Ministry of Human Settlements
Benitez, Jose Conrado	-	Deputy Minister Ministry of Human Settlements
Caoili, Arnold	-	Deputy Minister Ministry of Natural Resources
Capay, Antonio	-	Director Foreign Assisted Projects Management Unit Ministry of Natural Resources
Cardenas, Ramon B.	-	Deputy Director-General NEDA
Casimiro, Alfonso V.	-	Chairman, Construction Manpower Development Foundation
Sobrepena, Aniceto M.	-	Acting Director Policy Coordination Staff NEDA
Tan, Syvelyn	-	Special Asst. to the Chairman and Corporate Board Secretary NACIDA
Ulgado, Antonio V.	-	Vice-President Organizational Development University of Life
Velasco, Reginald S.	-	Chief, International Division, Policy Coordination Staff, NEDA
Villa', Josue L.	-	Director-General for Economic Affairs Ministry of Foreign Affairs

Zafra, Gerardo	-	Officer-in-Charge Office of the Asst. Director Management Office Ministry of the Budget
Castro, Pacifico A.	-	Deputy Minister Ministry of Foreign Affairs
Dapul, Santi M.	-	Office of the Minister Ministry of Trade & Industry
Franco, Ernesto A.	-	Executive Vice-President University of Life
Leviste, Jr., Jose P.	-	Deputy Minister Ministry of Trade & Industry
Meneses, Orlando	-	Executive Assistant Foreign Assisted Projects Management Unit Ministry of Natural Resources
Ocampo, Rodolfo	-	Special Technical Asst. to the Minister of finance Ministry of Finance
Remulla, Manuel C.	-	Executive Officer Construction Manpower Development Foundation
Reyes, Mario R.	-	Administrator NACIDA

MEMBERS (PHRDC)

Ambassador Josue L. Villa-		Director-General for Economic Affairs Ministry of Foreign Affairs
Ms. Farita A. Cabazor	-	Vice-Consul, ASEAN National Coordinating Agency Ministry of Foreign Affairs
Ms. Grace E. de Vera	-	Vice-President University of Life Ministry of Human Settlements
Ms. Ma. Luisa Echevarria	-	Official KKK National Secretariat

Mr. Eduardo Morato	-	General Manager Human Settlements Development Cooperation Ministry of Human Settlements
Mr. Jose Eduardo Alarilla	-	Department Manager Financial Sourcing and Packaging Financial and Corporate Planning Services - HSDC Ministry of Human Settlements

PROGRAM I

Ms. Grace E. de Vera	-	Vice-President University of Life Ministry of Human Settlements
Mr. Bento F. Estacio Jr.	-	Vice-President University of Life
Ms. Phoebe T. Anderson	-	Managing Director Lifelong Education Program University of Life Ministry of Human Settlements
Ms. Violeta A. Laraya	-	Managing Director Scholarships Management and Educational Exchange Office
Mr. Orlando Cabanlig	-	Managing Director Information Systems and Services Division Technology Resource Center
Mr. Sonny Joaquin	-	University of Life Unit Manager AVTSG
Mr. Vicente Abergas	-	Project Manager Technology Resource Center
Mr. Zenaida Samson	-	Project Analyst Technology Resource Center
Mr. Ding Fernandey	-	Unit Head Audio Visual Sectron University of Life
Mr. Felix Costa, Jr.	-	OIC, Engineering Office University of Life

PROGRAM II

Mr. Joemari D. Gerochi	-	Team Leader, BFAR
Mr. Enrique Macadangdang	-	OIC, Aquamarine KKK National Secretariat
Ms. Sofia Basa	-	Expert-Member, BFAR
Ms. Susan Villafranca	-	Expert-Member, BFAR

Mr. Pol A. Alapan	-	Supervising Fishery Extension Specialist
Mr. Gerardo A. Gotus	-	Consultant
Ms. Cecil V. Quibal	-	PHRDC (MHS)
Ms. Belle Camiloza	-	PHRDC (MHS)
Mr. Westremundo M. Rosario	-	Director BFAR
Mr. Cacho	-	BFAR

PROGRAM III

Mr. Manuel C. Remulla	-	Executive Officer Construction Manpower Development Foundation
Mr. Santi Dapul	-	Office of the Minister Ministry of Trade & Industry
Mr. Felipe Torres	-	Training Manager Engineering Equipment, Inc.
Mr. Donaldo de Leon	-	Planning Officer, CMDF
Mr. Luis A. Chanco	-	
Mr. Philip Torres	-	Consultant

PROGRAM IV

Ms. Syvelyn Tan	-	Special Assistant to the Chairman and Corporate Board Secretary, MTI-NACIDA
Mr. Ernesto Payoyo	-	Manager of Cottage Industries NACIDA, MTI Ministry of Trade & Industry
Mr. Isidoro M. Ramos	-	Acting Chief, Administrative Div.
Mr. Jorge E. Mundo	-	Chief Woodcraft Workshop
Mr. Alfonso Atienza	-	Chief Bamboo Rattancraft Wrokshop

SECRETARIAT TEAM

Ms. Ma. Corazon Barrios	-	Member, PHRDC Center
Mr. Asterio Guanzon	-	Member, Program I
Mr. Renato Forcadilla	-	Member, Program IV
Mr. Jesus Bernardo	-	Member, Program II
Mr. Angelito Mijares	-	Member, Program III
Mr. Ernesto Forcadilla	-	Member, Renovation -PHRDC
Ms. Julie Fernandez	-	Member, Records & Documentation
Ms. Diana Jean Uy	-	Member, Records & Documentation

7. BORING SURUEY REPORT ON PROGRAM II SITE

GEOTESTING (INTERNATIONAL) INC.
GEOTECHNICAL & MATERIALS TESTING ENGINEERS

SUITE 101, 1679 DIAN ST., MAKATI, M. M.
TEL. NO 85-61-42

REF.: GII-32582-178-82

DATE: November 12, 1982

Japan International Corporation Agency
c/o Manila Garden Hotel
Makati, Metro Manila

Attention : Mr. Jun-ichi Itano

Subject : REPORT-SOIL BORING AND TESTING, PROPOSED DAGUPAN CITY TONDALIGAN, AQUAMARIN LABORATORY.

Gentlemen :

This report presents the result of the soil boring and testing we performed for the proposed Dagupan City Tondaligan, Aquamarin Laboratory in Dagupan City.

The purpose of our soil boring was to explore the sub-surface condition by test borings and perform laboratory tests on disturbed and undisturbed samples.

FIELD INVESTIGATION

To explore the sub-surface conditions, we drilled four test borings (one (1) hole at 30 meters deep and three (3) holes at 20.0 meters deep each.) The exact locations of the borings are shown on the attached borehole location map. The boreholes were drilled using our Explorer 2000 drilling equipment. The logs of the borings are presented on the attached sub-surface exploration log.

SAMPLING WITH STANDARD PENETRATION TEST

Disturbed samples were taken every one meter interval using a Standard Penetration Test (SPT) split spoon sampler. The sampler was driven with a.63.64 kg. hammer falling freely through a distance of 76.2 cm. The number of blows were recorded for the 30 cm. penetration.

Undisturbed samples were retrieved by using a thin wall tube (shelby tube).

WATER TABLE DETERMINATION

The water table was measured 24 hours after completion of the boring works. The elevations of the water table are recorded in the boring logs.

LAYOUT AND ELEVATIONS OF BOREHOLES

The test borings were laid out by the use of an Engineer's Transit and measuring tape. The elevations of the boreholes were established by using an Engineer Transit, Stadia Rod and an assumed bench mark, Elevation 0.000. (A nail at Electric Post No. D23-479). For details, please refer to attached borehole location map.

LABORATORY TESTING

The samples obtained from the field were brought to our central laboratory in Manila for further examination. Selected SPT samples were tested to determine the particle size distribution by sieve analysis, shelby tube samples were tested to determine their natural density and unconfined compressive strength. The results of the tests are presented in the remaining sheets of this report.

SITE CONDITIONS

As revealed on the sub-surface exploration logs, the site is underlain by various thicknesses of fine sand, silty sand and sandy silt to approximately 22 meters deep. Underlying these materials as indicated in borehole no. 1 (BH-1) is a clayey silt layer. For details, please refer to attached Subsurface Exploration Log.

It has been a pleasure doing the soil boring and testing for the proposed project. If any part of this report needs clarification, please do not hesitate to contact us.

Very truly yours,
GEOTESTING (INTERNATIONAL) INC.

DOMINADOR R. FERMIN, JR.
President

Encl : a/s

GEOTESTING (INTERNATIONAL) INC.
GEOTECHNICAL & MATERIALS TESTING ENGINEERS

SUITE 101, 1679 DIAN ST., MAKATI, M. M
TEL. NO 85-61-42

SUBSURFACE EXPLORATION LOG

Feature: Japan (Int'l.) Corp. Agency — Ground Elevation: -0.764 meter — Hole No.: BH-1
Project: Dagupan City Tondaligan Aquamarin Laboratory — Watertable Elev.: 3.06 M below ground elevation — Location: Dagupan City
Hole Logged By: A. Bisnar — Date gaged: Oct. 29, 1982 — Depth of Hole: 30.0 meter
Date Begun: Oct. 24, 1982 — Weight of Hammer: 63.64 kg. — Coordinates: See borehole location plan
Date Finished: October 28, 1982 — Height of Drop: 0.762 meter

Notes
Type & Size of hole
Type of Sampler
Loss of DrillingWater

Size of hole : 0.0762 m.

SPT Sampler :
5.08 cm. O.D.
3.50 cm. I.D.
60 cm. long

Shelby Tube Sampler :
60 mm. I.D.
60 cm. long

Recovery, %	No. of Blows	Sample taken	Description and Classification of Material
50	2	SPT-1	Fine Sand, gray to dark gray, very loose to medium dense, moist
58	7	SPT-2	
65	15	SPT-3	
88	17	SPT-4	Silty Fine Sand, gray, medium dense, non-plastic wet in place
92	18	SPT-5	
92	19	SPT-6	
85	10	SPT-7	
75	16	SPT-8	
85	12	SPT-9	
92	15	SPT-10	
65	10	SPT-11	
00	12	SPT-12	
92	11	SPT-13	
58	10	SPT-14	
50	10	SPT-15	
58	11	SPT-16	
65	11	SPT-17	Sandy Silt, dark gray medium stiff very low plasticity wet in place
65	8	SPT-18	
62	7	SPT-19	
65	8	SPT-20	
80	-	ST-1	
65	7	SPT-21	
50	6	SPT-22	Clayey Silt, dark gray medium stiff to stiff low to medium plasticity, wet in place
92	-	ST-2	
65	8	SPT-24	
100	-	ST-3	
100	6	SPT-26	
100	-	ST-4	
100	17	SPT-27	
100	-	ST-5	

End of Boring

Depth, m.: 5, 10, 15, 20, 25, 30

Log

Penetration Resistance blows per foot: 10, 20, 30, 40, 50

Checked by: E. RAMIREZ/Matl's. Testing Engr.

Noted by: D. R. PERMIN, JR./President

GEOTESTING (INTERNATIONAL) INC.
GEOTECHNICAL & MATERIALS TESTING ENGINEERS

SUITE 101, 1679 DIAN ST., MAKATI, M. M.
TEL. NO. 85-61-42

SUBSURFACE EXPLORATION LOG

Feature Japan (Int'l.) Corp. Agency — Ground Elevation 0.071 meter — Hole No. BH-2
Project Dagupan City Tondaligan Aquamarin Laboratory — Watertable Elev. 3.75 meter below ground elevation — Location Dagupan City
Hole Logged By A. Bisnar — Date gaged Oct. 31, 1982 — Depth of Hole 20.00 meter
Date Begun Oct. 29, 1982 — Weight of Hammer 63.64 kg. — Coordinates See borehole location plan
Date Finished Oct. 30, 1982 — Height of Drop 0.762 meter

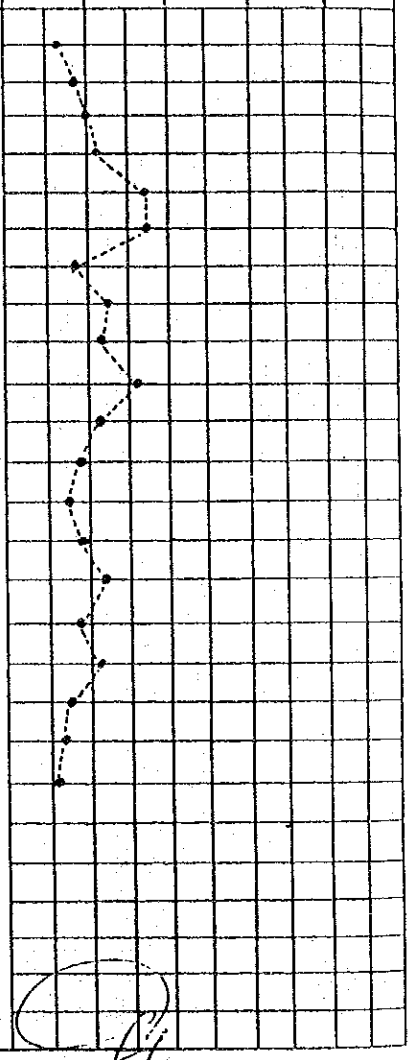
Notes
Type & Size of hole
Type of Sampler
Loss of Drilling Water

Size of hole :
0.0762 m.

SPT Sampler :
5.08 cm. O.D.
3.50 cm. I.D.
60 cm. long

Recovery, %	No. of Blows	Sample taken	Description and Classification of Material	Depth, m.
65	6	SPT-1	Sand, fine to medium, gray loose, moist in place	
75	8	SPT-2		
85	10	SPT-3	Silty Sand, gray medium dense, wet in place	
85	11	SPT-4		
90	17	SPT-5		5
90	17	SPT-6		
80	8	SPT-7	Sandy Silt, dark gray, stiff to medium stiff very low plasticity wet in place	
85	13	SPT-8		
85	12	SPT-9		
85	16	SPT-10		10
92	12	SPT-11		
65	9	SPT-12		
75	7	SPT-13		
75	9	SPT-14		
85	12	SPT-15		15
70	9	SPT-16		
75	11	SPT-17		
65	8	SPT-18		
70	7	SPT-19		
80	6	SPT-20		20
			End of Boring	

Penetration Resistance blows per foot
10 20 30 40 50



Checked by: E. RAMIREZ/Matl's. Testing Engr.

Noted by: D. R. FERMIN, JR./President

GEOTESTING (INTERNATIONAL) INC.
GEOTECHNICAL & MATERIALS TESTING ENGINEERS

SUITE 101, 1679 DIAN ST., MAKATI, M. M.
TEL. NO 85-61-42

SUBSURFACE EXPLORATION LOG

Feature: Japan (Int'l.) Corp. Agency — Ground Elevation: - 1.469 meter — Hole No.: BH-3
Project: Dagupan City Tondaligan Aquamarin Laboratory — Watertable Elev.: 2.23 meter below ground elevation — Location: Dagupan City
Hole Logged By: A. Bisnar — Date gaged: November 2, 1982 — Depth of Hole: 20.00 meter
Date Begun: Oct. 31, 1982 — Weight of Hammer: 63.64 kg. — Coordinates: See borehole location plan
Date Finished: November 1, 1982 — Height of Drop: 0.762 meter

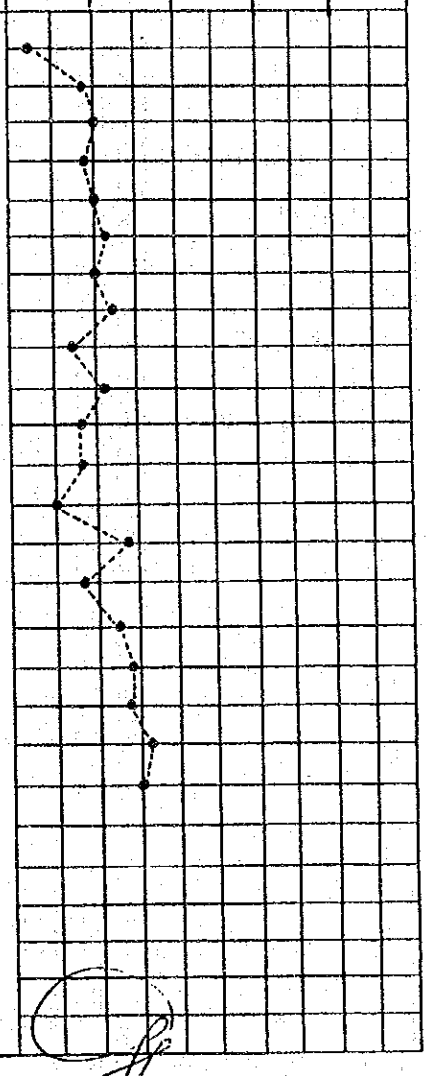
Notes
Type & Size of hole
Type of Sampler
Loss of Drilling Water

Size of hole :
0.0762 m.

SPT Sampler :
5.08 cm. O.D.
3.50 cm. I.D.
60 cm. long

Recovery, %	No. of Blows	Sample taken	Description and Classification of Material	Depth, m.
60	3	SPT-1	Sand, fine to medium dark brown to dark gray, loose to medium dense, wet in place	
75	9	SPT-2		
80	10	SPT-3		
80	9	SPT-4		
75	10	SPT-5		5
55	11	SPT-6		
80	10	SPT-7		
85	12	SPT-8		
75	8	SPT-9		
80	11	SPT-10	Silty Sand, gray, loose non-plastic, moist in place	10
80	8	SPT-11		
80	8	SPT-12	Sandy Silt, dark gray medium stiff to stiff, very low plasticity wet in place	
50	5	SPT-13		
90	14	SPT-14		
85	8	SPT-15		15
90	13	SPT-16		
90	14	SPT-17		
90	14	SPT-18		
100	16	SPT-19		
100	15	SPT-20		20
			End of Boring	

Penetration Resistance blows per foot



Checked by: E. RAMIREZ/Matl's. Testing Engr.

Noted by: D. R. FERMIN, JR./President

GEOTESTING (INTERNATIONAL) INC.
GEOTECHNICAL & MATERIALS TESTING ENGINEERS

SUITE 101, 1679 DIAN ST., MAKATI, M. M.
TEL. NO 85-61-42

SUBSURFACE EXPLORATION LOG

Feature Japan (Int'l.) Corp. Agency — Ground Elevation -1.819 meter — Hole No. BH-4
Project Dagupan City Tondaligan Aquamarin Laboratory — Watertable Elev. 1.85 meter below ground elevation — Location Dagupan City
Hole Logged By A. Bisnar — Date gaged November 4, 1982 — Depth of Hole 20.0 M
Date Begun November 2, 1982 — Weight of Hammer 63.64 kg. — Coordinates See borehole location plan
Date Finished November 3, 1982 — Height of Drop 0.762 meter

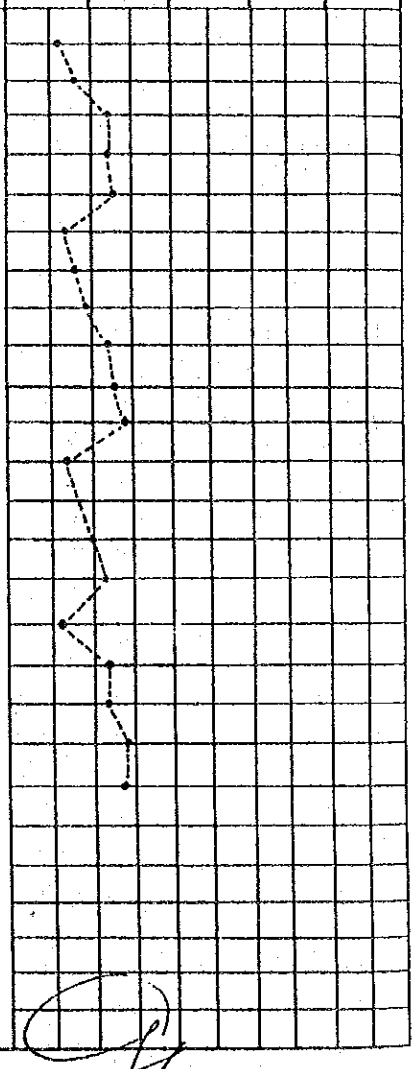
Notes
Type & Size of hole
Type of Sampler
Loss of Drilling Water

Size of hole :
0.0762 m.

SPT Sampler:
5.08 cm. O.D.
3.50 cm. I.D.
60 cm. long

Recovery, %	No. of Blows	Sample taken	Description and Classification of Material	Depth, m.	Log
60	6	SPT-1	Sand, fine to medium gray to dark gray, loose to medium dense, wet in place		
75	8	SPT-2			
80	12	SPT-3			
80	12	SPT-4			
80	13	SPT-5		5	
80	7	SPT-6			
75	8	SPT-7			
80	9	SPT-8			
85	12	SPT-9	Silty Sand, dark gray medium dense, very low plasticity wet in place		
90	13	SPT-10		10	
90	14	SPT-11			
80	7	SPT-12			
0	-	ST-1			
85	10	SPT-13			
85	12	SPT-14		15	
60	6	SPT-15			
85	12	SPT-16			
90	12	SPT-17			
90	14	SPT-18			
90	14	SPT-19		20	
			End of boring		

Penetration Resistance blows per foot



Checked by: E. RAMIREZ/Matl's. Testing Engr.

Noted by: D. R. FERMIN, JR./President

GEOTESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. I

Sample No.	Depth, m	% Passing U.S. Standard Sieve					
		No. 8	No. 16	No. 30	No. 50	No. 80	No. 200
SPT-1	0.55-1.00	100	99	98	46	38	7
SPT-5	4.55-5.00	100	98	98	79	62	22
SPT-8	7.55-8.00	100	99	98	89	88	48
SPT-11	10.55-11.00	100	99	98	89	81	49
SPT-14	13.55-14.00	100	96	89	80	70	40
SPT-20	19.55-20.00	100	99	98	96	89	52
SPT-24	24.55-25.00	100	99	99	98	98	96
SPT-27	28.55-29.00	-	-	100	99	99	97

Tested by :

ROSEMARIE E. PAJARES
Sr. Laboratory Tech.

Noted by :

EVELYN T. RAMIREZ
Materials Testing Engr.

GEOTESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. 2

Sample No.	Depth, m	% Passing U.S. Standard Sieve					
		No. 8	No. 16	No. 30	No. 50	No. 80	No. 200
SPT-2	1.55-2.00	-	100	98	60	11	1
SPT-4	3.55-4.00	100	99	98	96	79	35
SPT-8	7.55-8.00	100	99	98	96	89	66
SPT-12	11.55-12.00	-	-	-	100	98	83
SPT-16	15.55-16.00	100	98	97	95	88	65
SPT-20	19.55-20.00	-	-	-	99	95	61

Tested by :

ROSEMARIE PAJARES
Sr. Laboratory Tech.

Noted by :

EVELYN T. RAMIREZ
Materials Testing Engr.

GEOTESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. 3

Sample No.	Depth, m	% Passing U.S. Standard Sieve					
		No. 8	No. 16	No. 30	No. 50	No. 80	No. 200
SPT-2	1.55-2.00	-	100	94	58	14	2
SPT-7	6.55-7.00	100	98	94	82	43	10
SPT-10	9.55-10.00	-	-	100	99	87	42
SPT-14	14.55-15.00	-	-	-	100	89	59
SPT-19	18.55-19.00	-	-	100	99	93	72

Tested by :

ROSEMARIE E. PAJARES
Sr. Laboratory Tech.

Noted by :

EVELYN T. RAMIREZ
Materials Testing Engr.

GEOTESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

SIEVE ANALYSIS TEST RESULTS ON SPT SAMPLES

BOREHOLE NO. 4

Sample No.	Depth, m	% Passing U.S. Standard Sieve					
		No. 8	No. 16	No. 30	No. 50	No. 80	No. 200
SPT-1	0.55-1.00	-	100	98	49	13	2
SPT-5	4.55-5.00	100	98	92	76	27	9
SPT-9	8.55-9.00	-	-	100	97	82	40
SPT-14	14.55-15.00	-	100	99	90	85	42
SPT-20	19.55-20.00	100	99	98	97	83	41

Tested by :

ROSEMARIE E. PAJARES
Sr. Laboratory Tech.

Noted by :

EVELYN T. RAMIREZ
Materials Testing Engr.

GEOTESTING

PROJECT : PROPOSED DAGUPAN CITY TONDALIGAN
AQUAMARIN LABORATORY

UNCONFINED COMPRESSIVE STRENGTH AND NATURAL DENSITY OF SHELBY TUBE SAMPLES

BOREHOLE NO. I

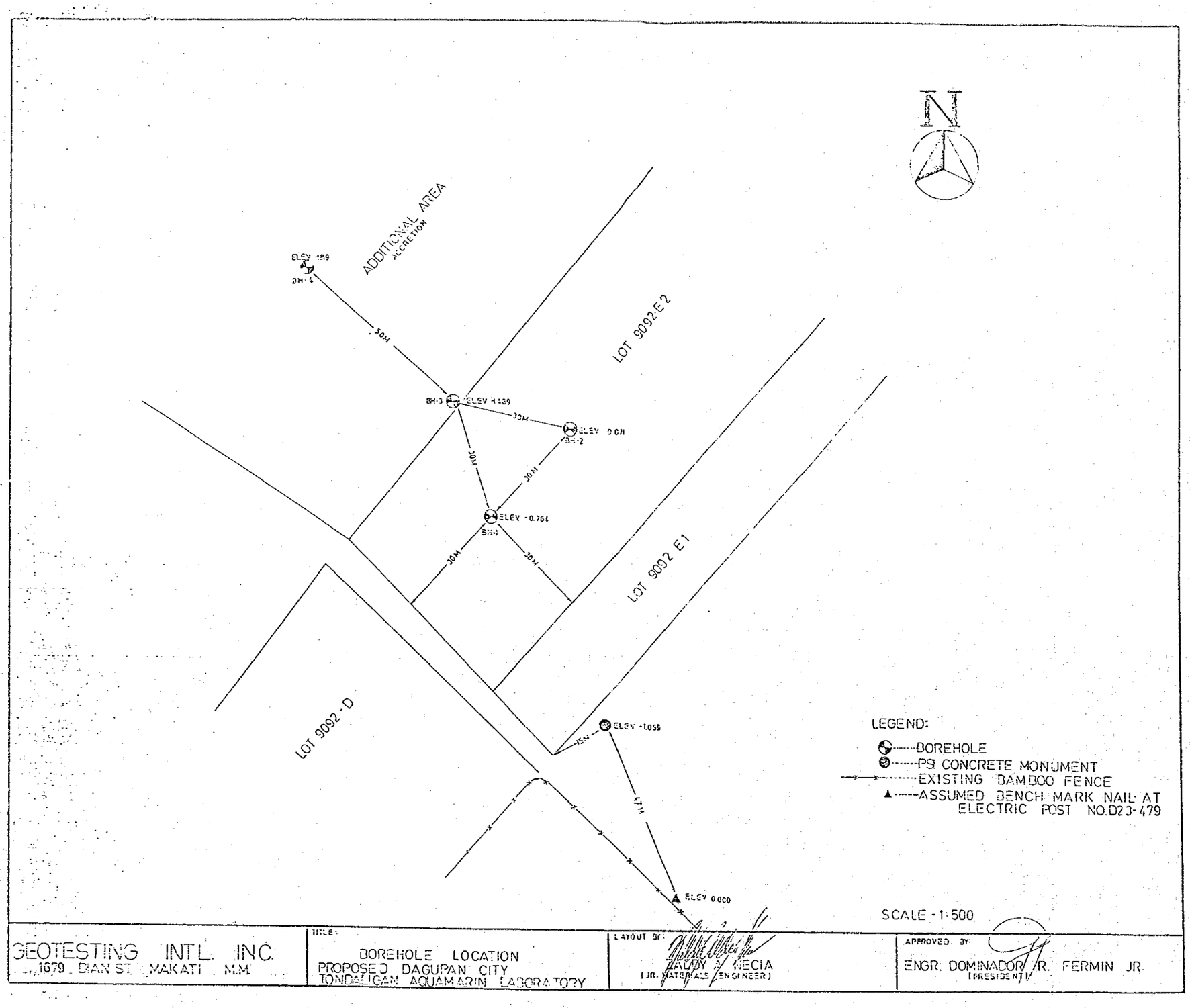
Sample No.	Depth Meter	Unconfined Compressive Strength kg/cm^2	Natural Density g/cc
ST-1	20.55 - 21.00	0.734	1.32
ST-2	22.55 - 23.00	0.685	1.28
ST-3	25.55 - 26.00	0.705	1.30
ST-4	27.55 - 28.00	1.301	1.72
ST-5	29.55 - 30.00	1.631	1.81

Tested by :

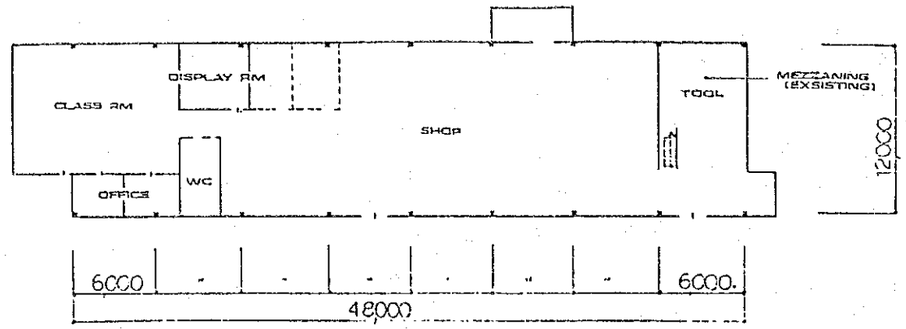
ROSEMARIE PAJARES
Sr. Laboratory Tech.

Noted by :

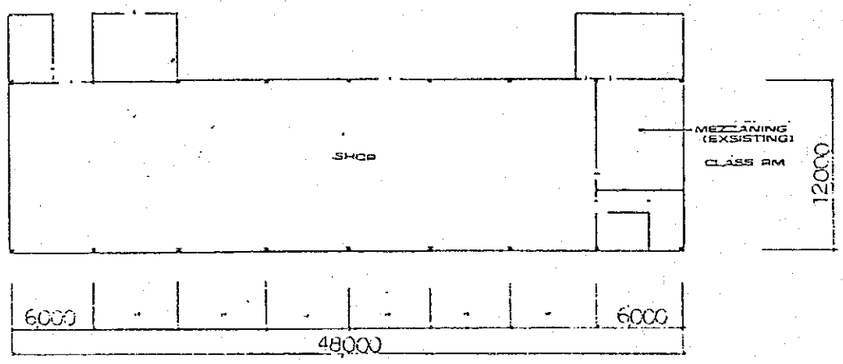
EVELYN T. RAMIREZ
Materials Testing Engr.



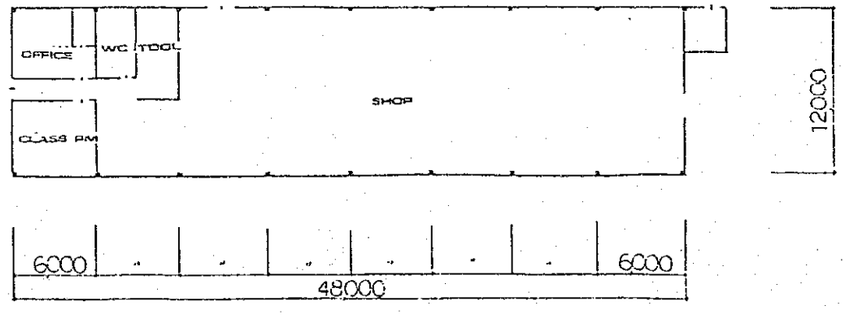
GEOTESTING INTL. INC. 1679 DIAN ST. MAKATI M.M.	TITLE: BOREHOLE LOCATION PROPOSED DAGUPAN CITY TONDALIGAN AQUAMARIN LABORATORY	LAYOUT BY: ALDY A. NECIA (JR. MATERIALS ENGINEER)	APPROVED BY: ENGR. DOMINADOR JR. FERMIN JR. (PRESIDENT)



BAMBOO CRAFT



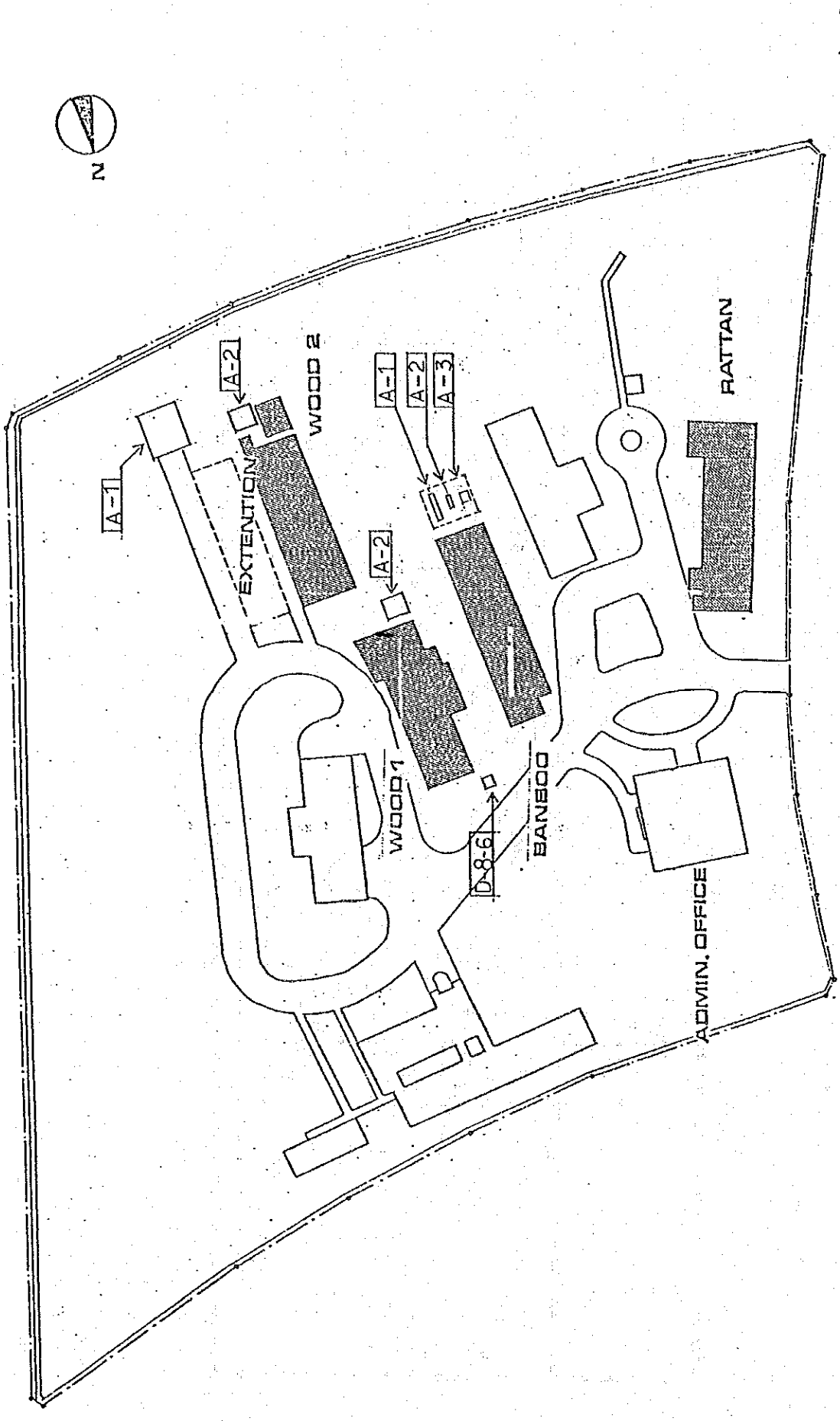
RATTAN CRAFT



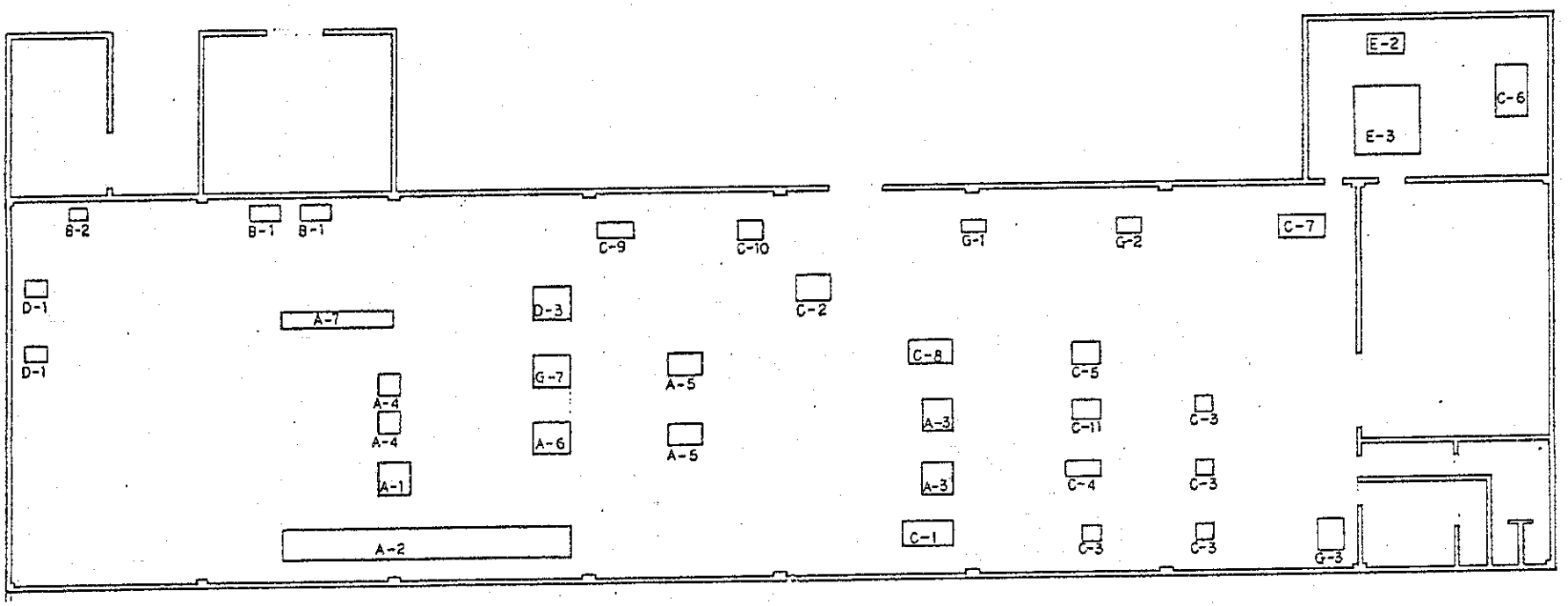
WOOD CRAFT

PROGRAM - 4 . PLAN 1:400
(renovation by the PHILPPINES)

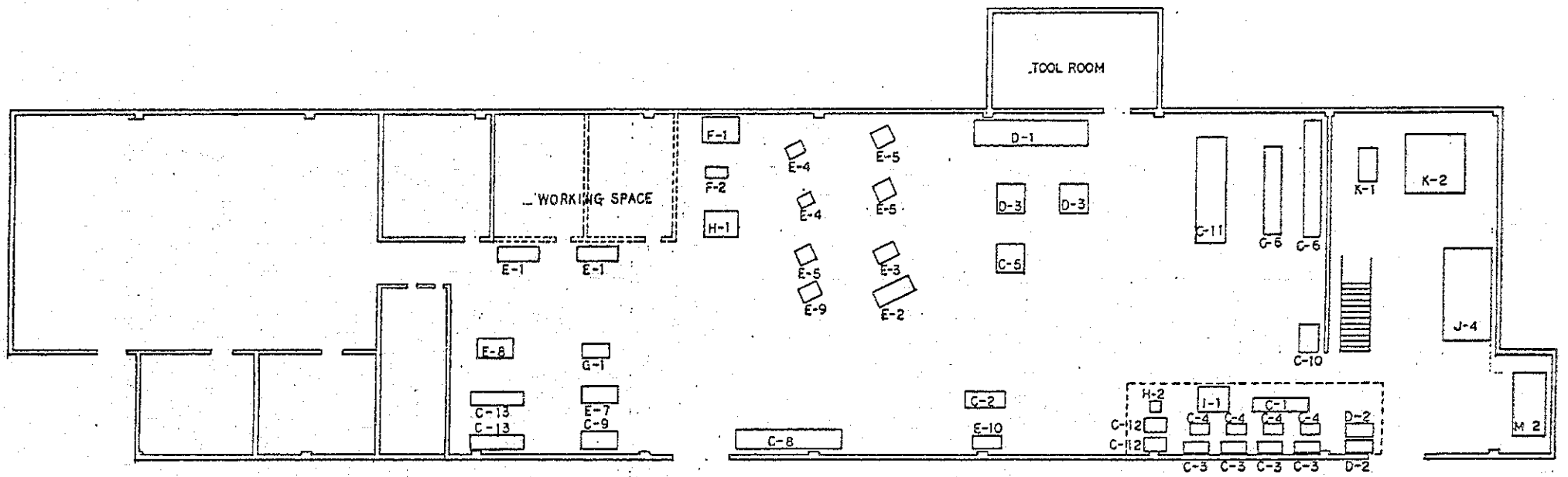
9. REFERENCE LAYOUT OF EQUIPMENT



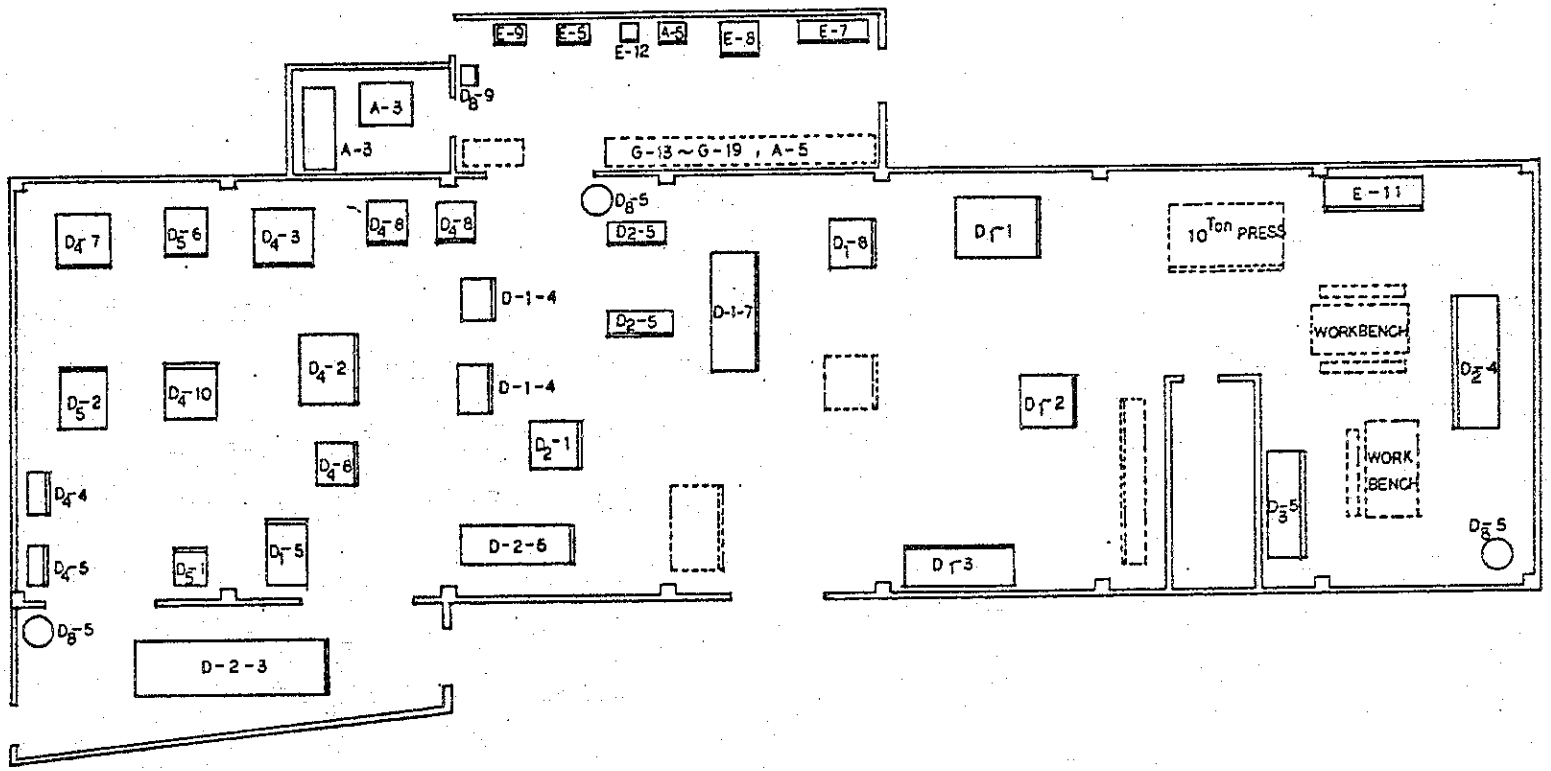
Layout Plan of Program IV



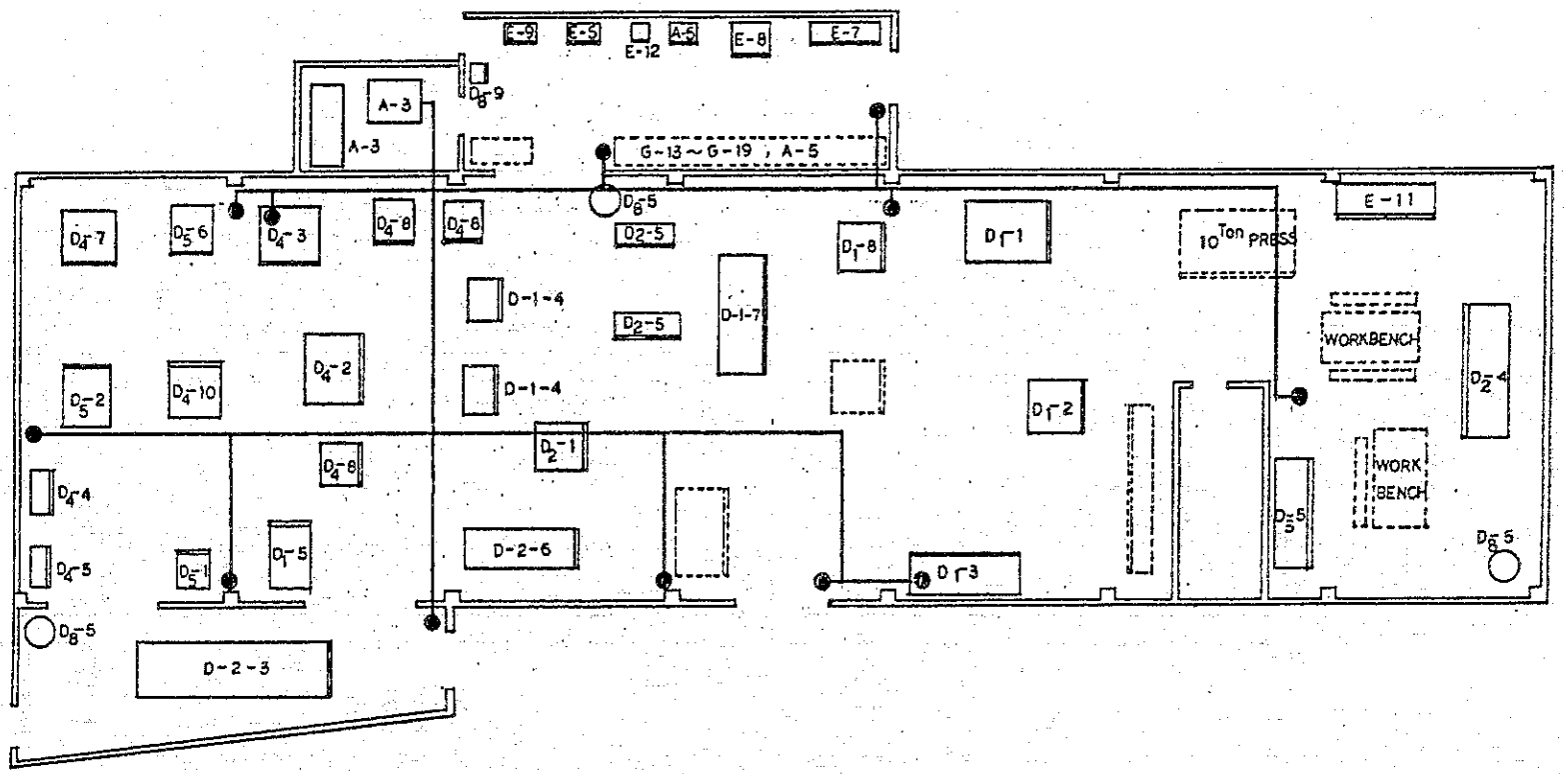
Layout Plan of the Rattan Craft



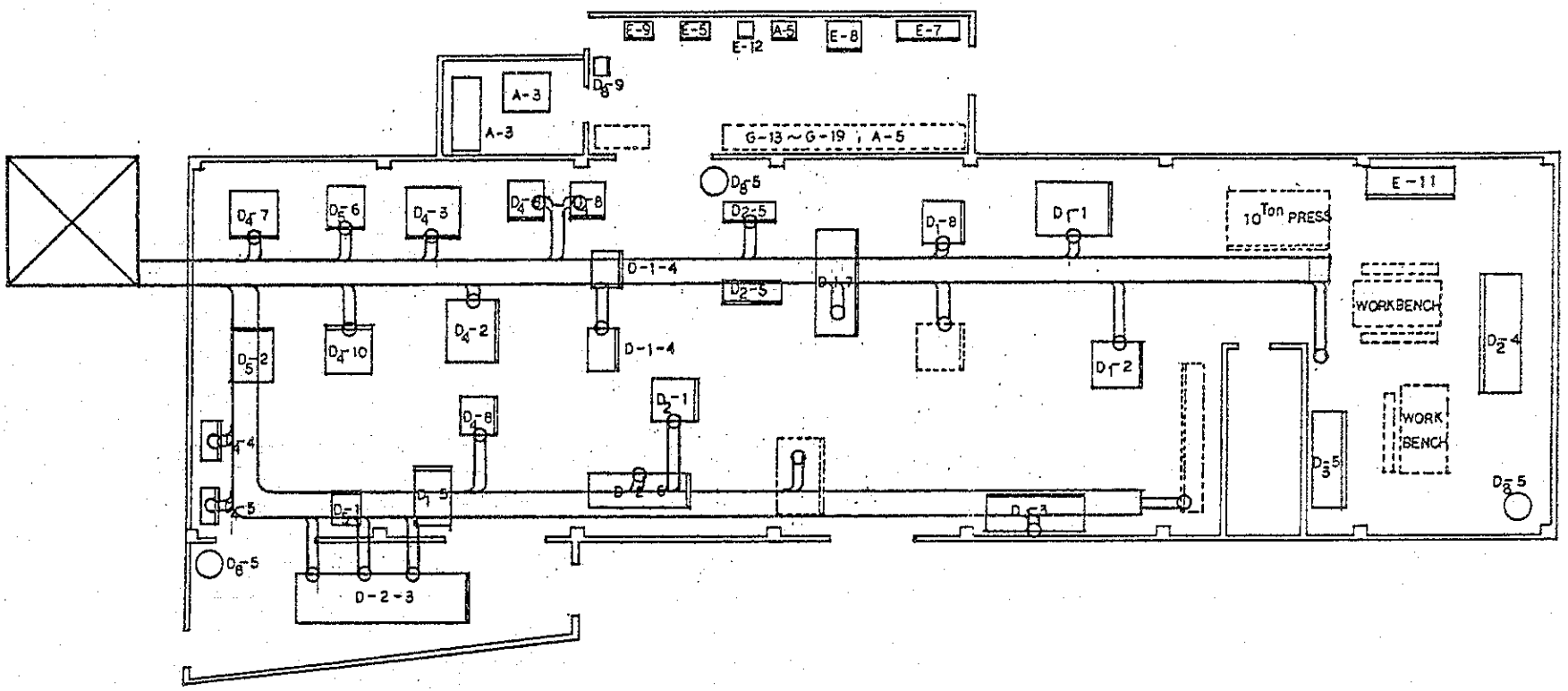
Layout Plan of the Bamboo Craft



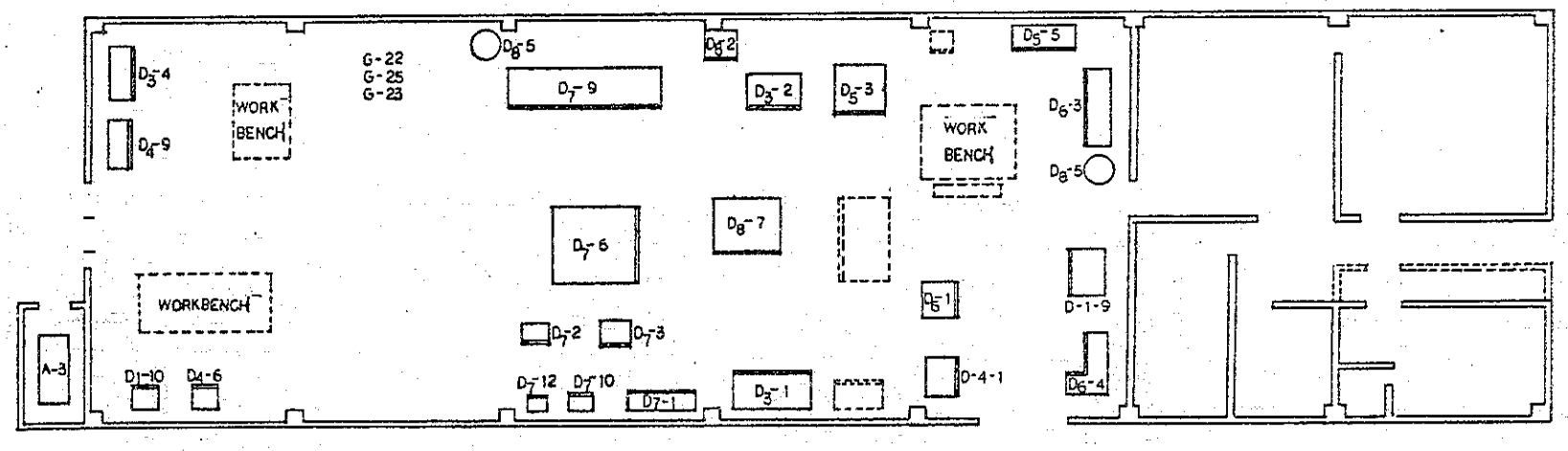
Layout Plan of the Woodwork (Wood 1)



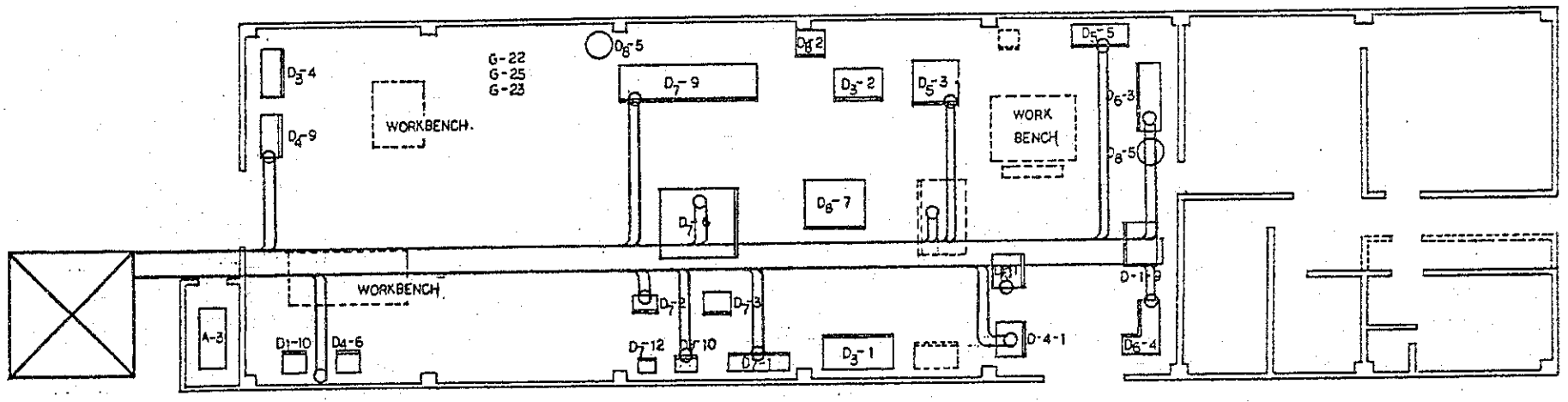
Layout Plan of the Air System (Wood 1)



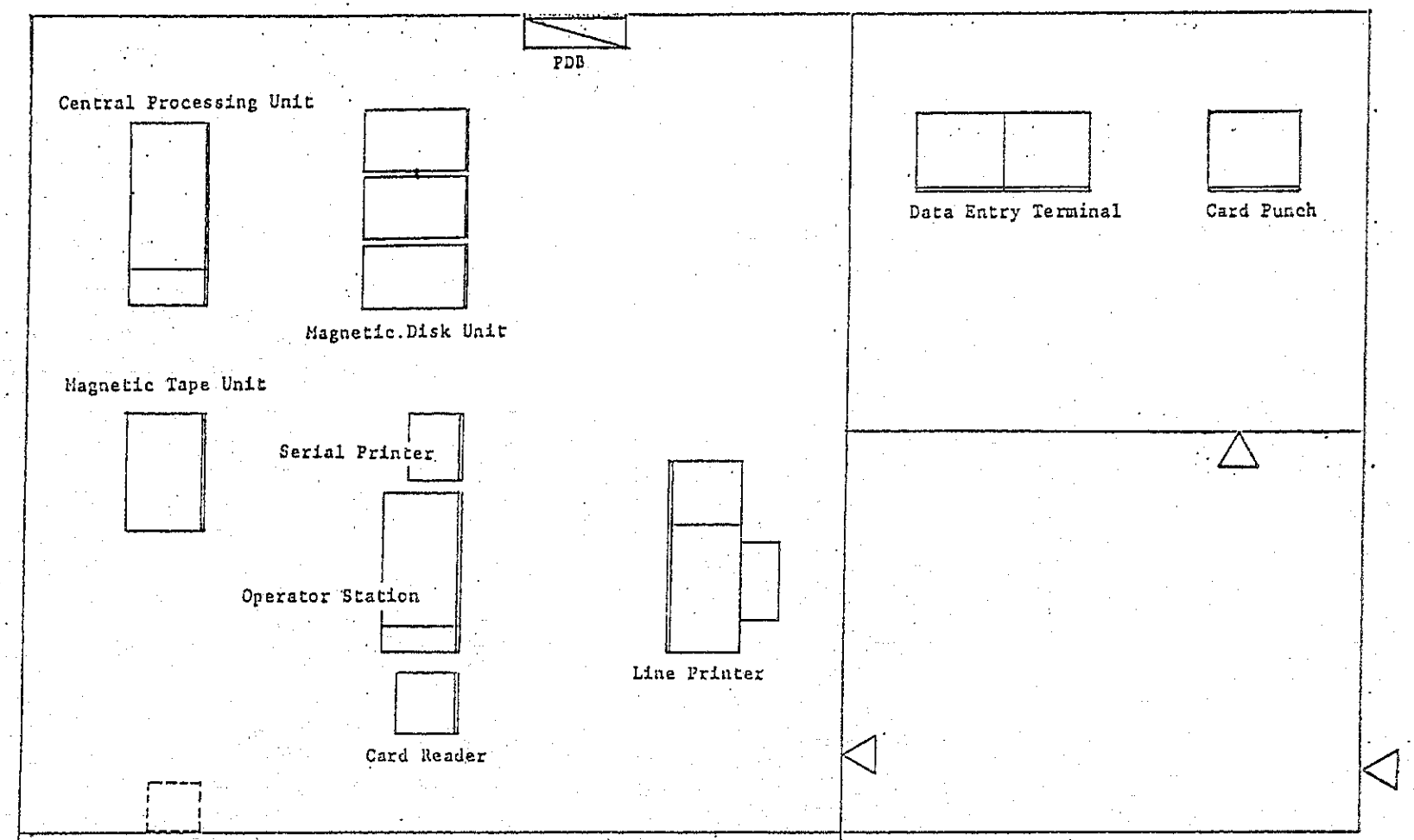
Layout Plan of the Dust Collector System (Wood 1)



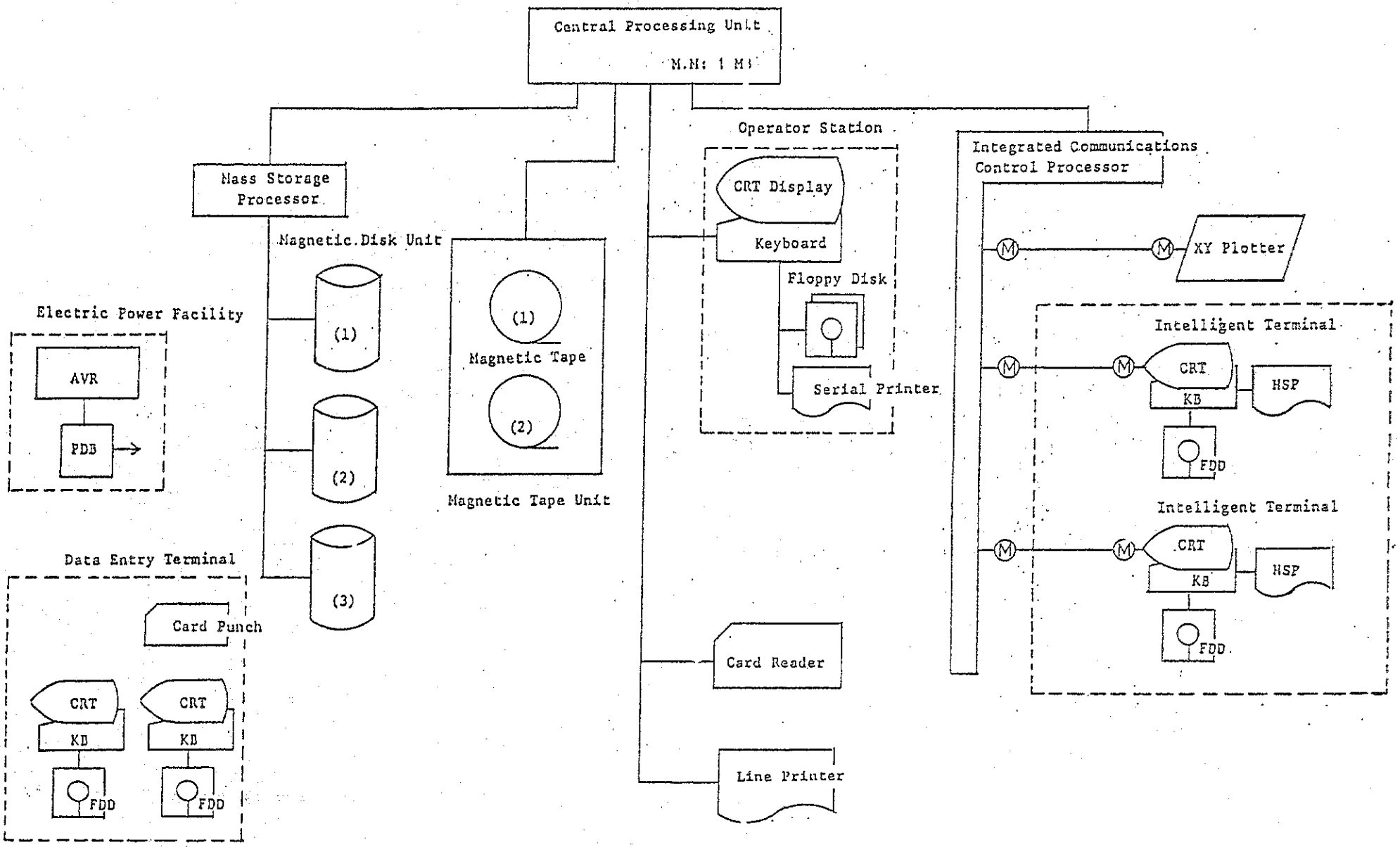
Layout Plan of the Woodwork (Wood 2)



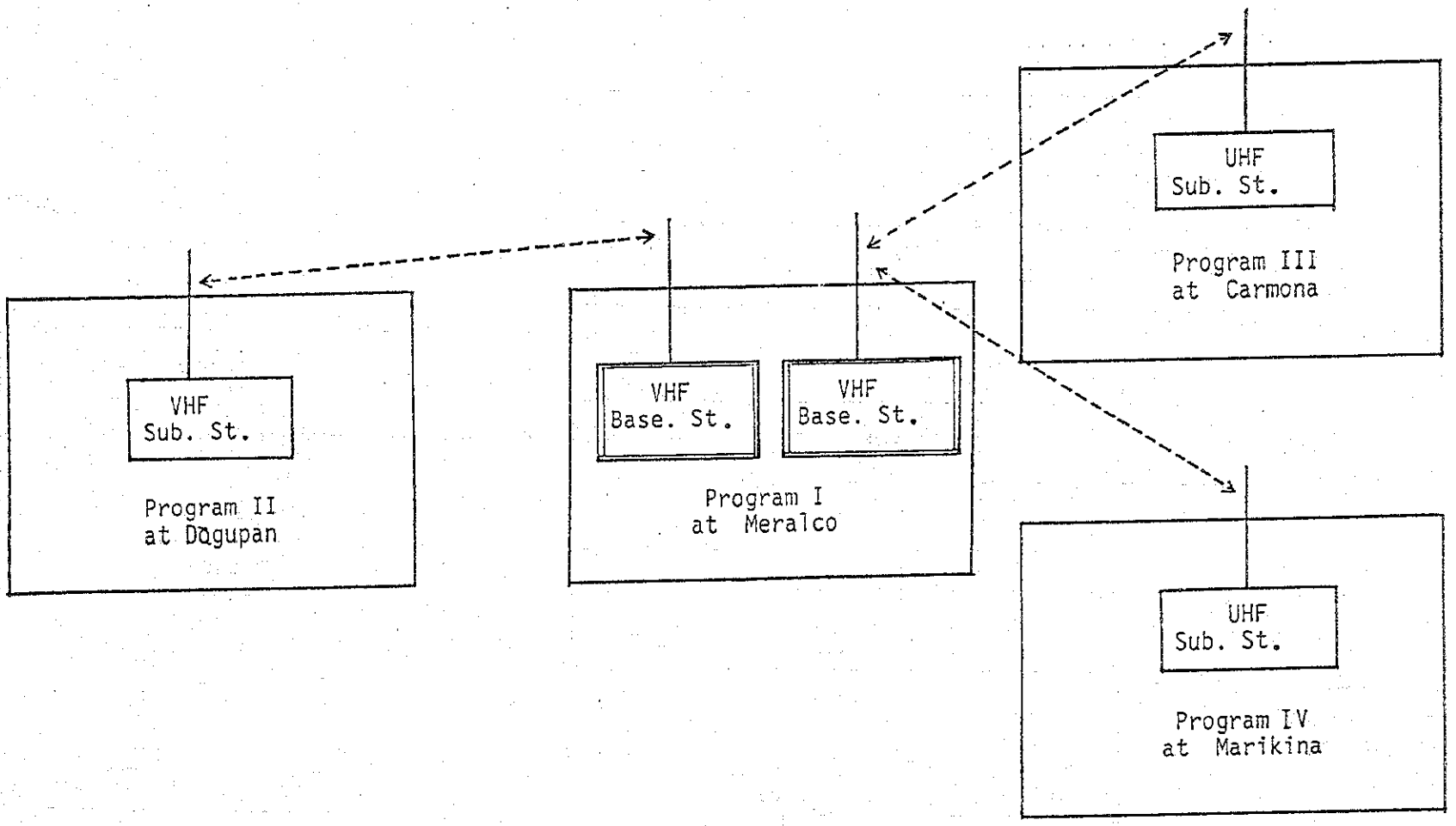
Layout Plan of the Dust Collector System (Wood 2)



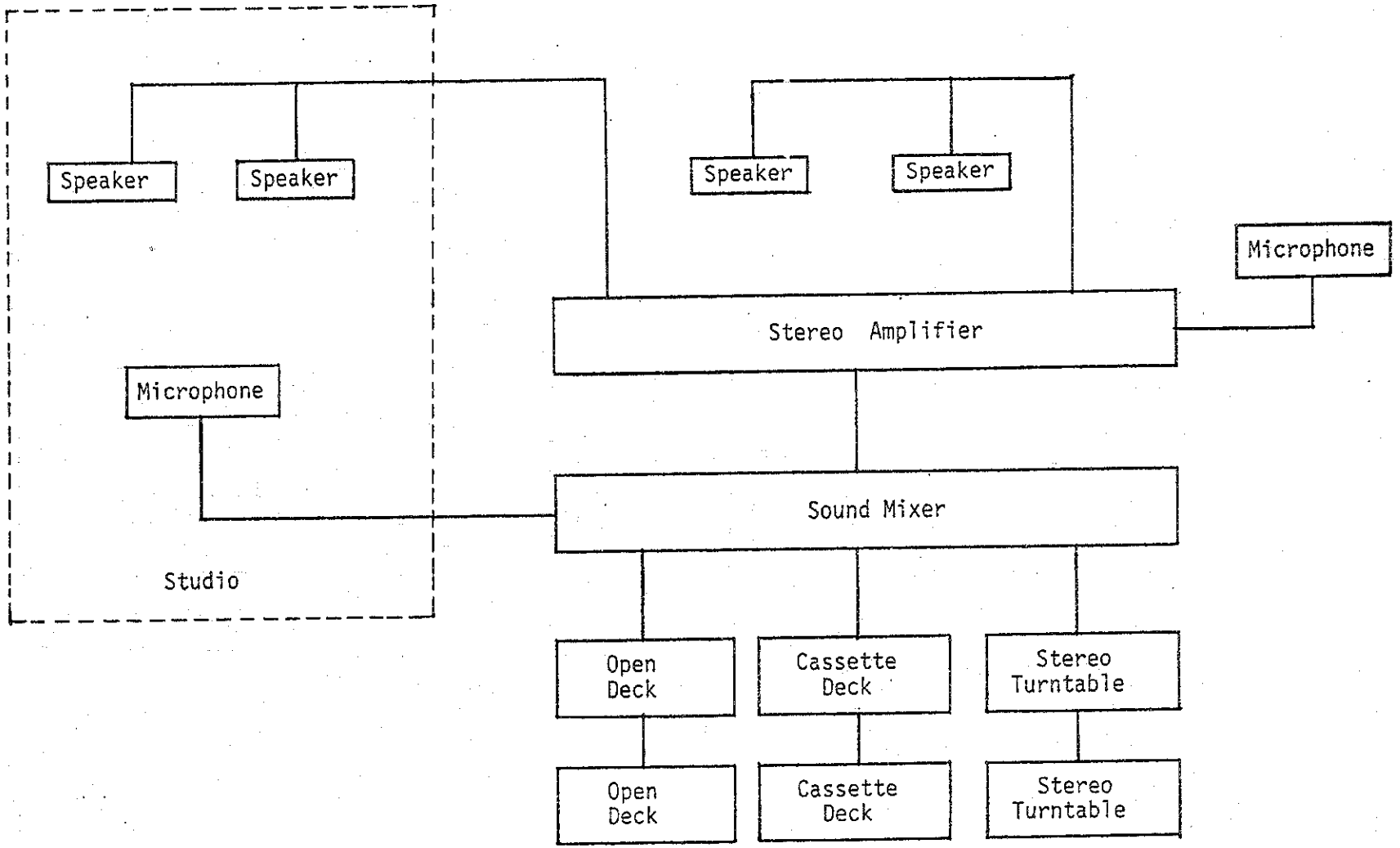
Layout Plan of the Data Bank



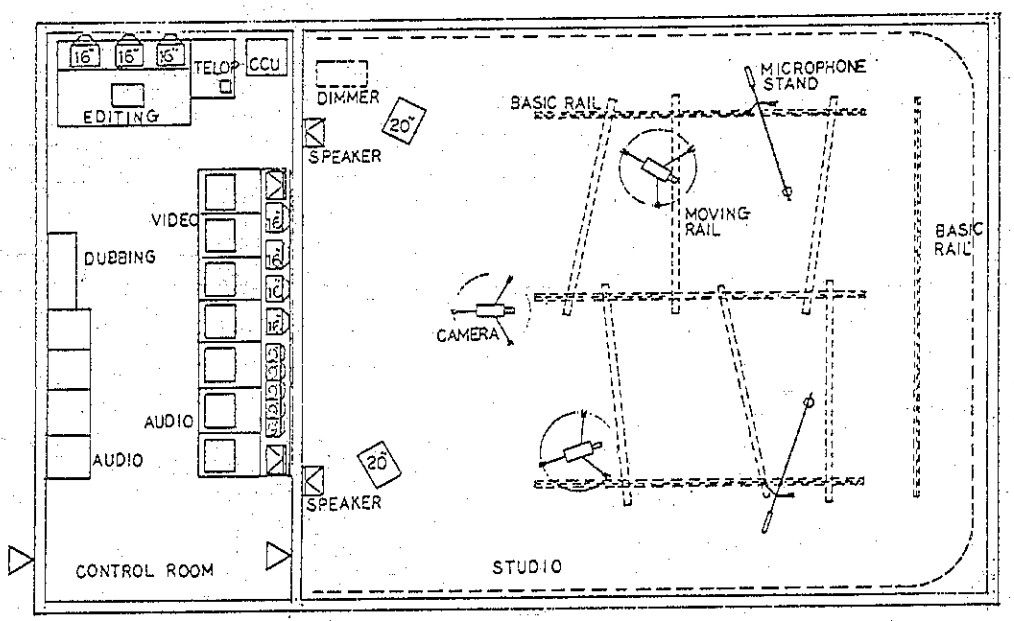
System Plan of the Data Bank

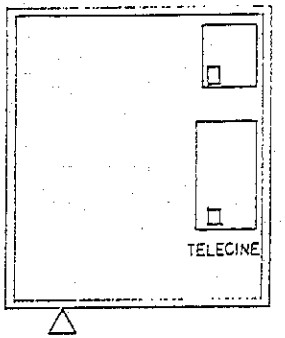


Communication System

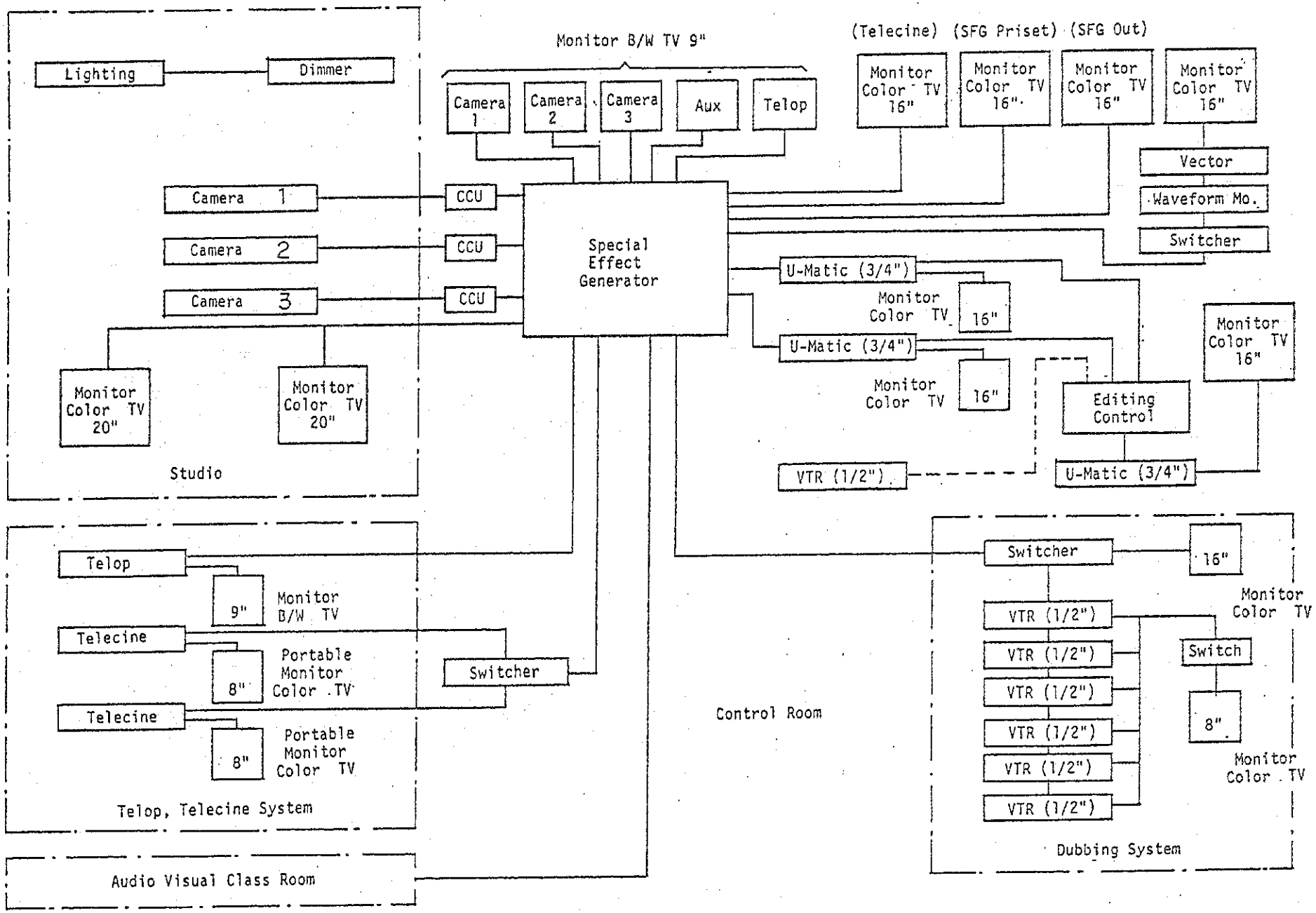


System Plan of the Video Studio (Audio)

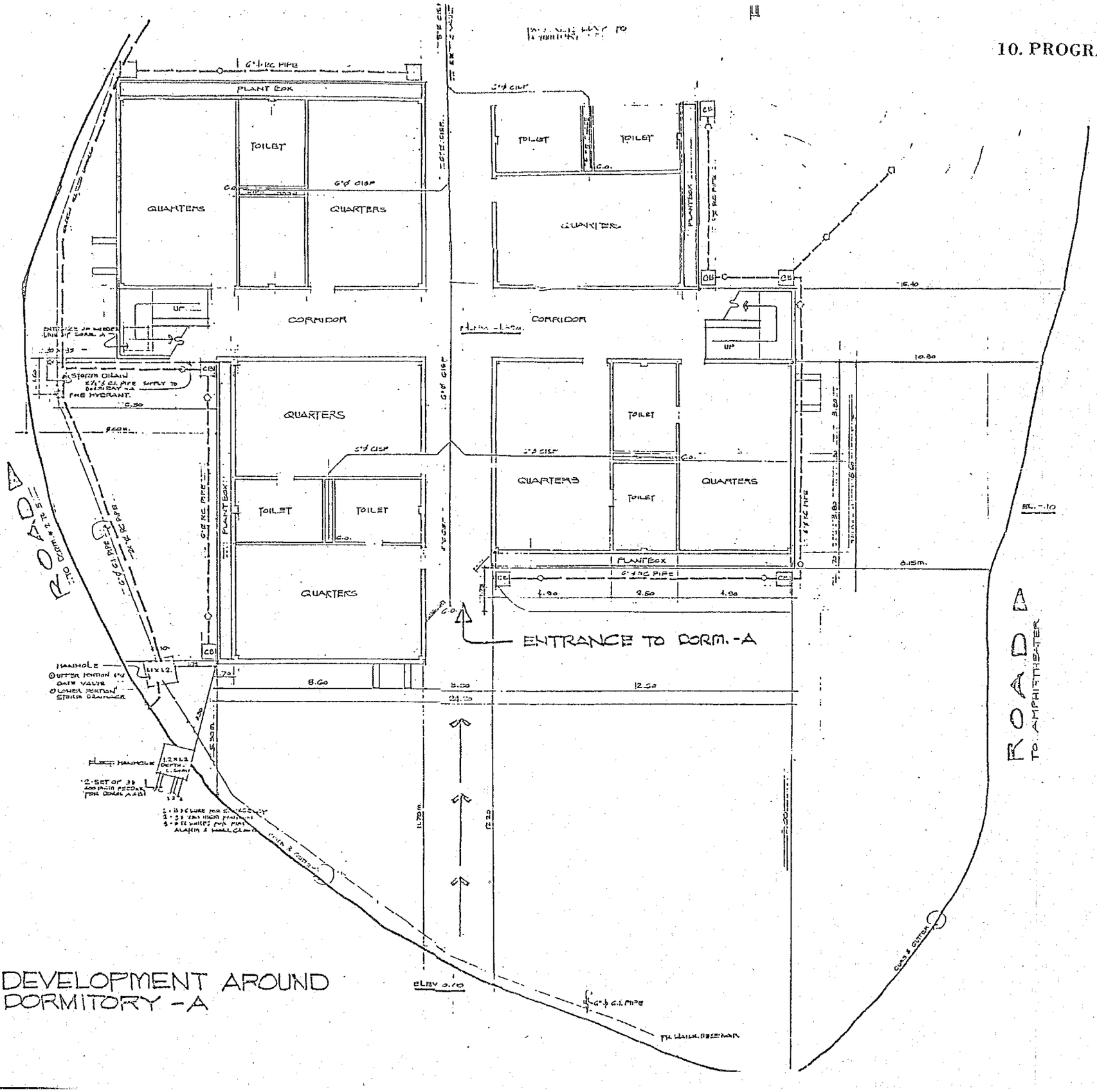


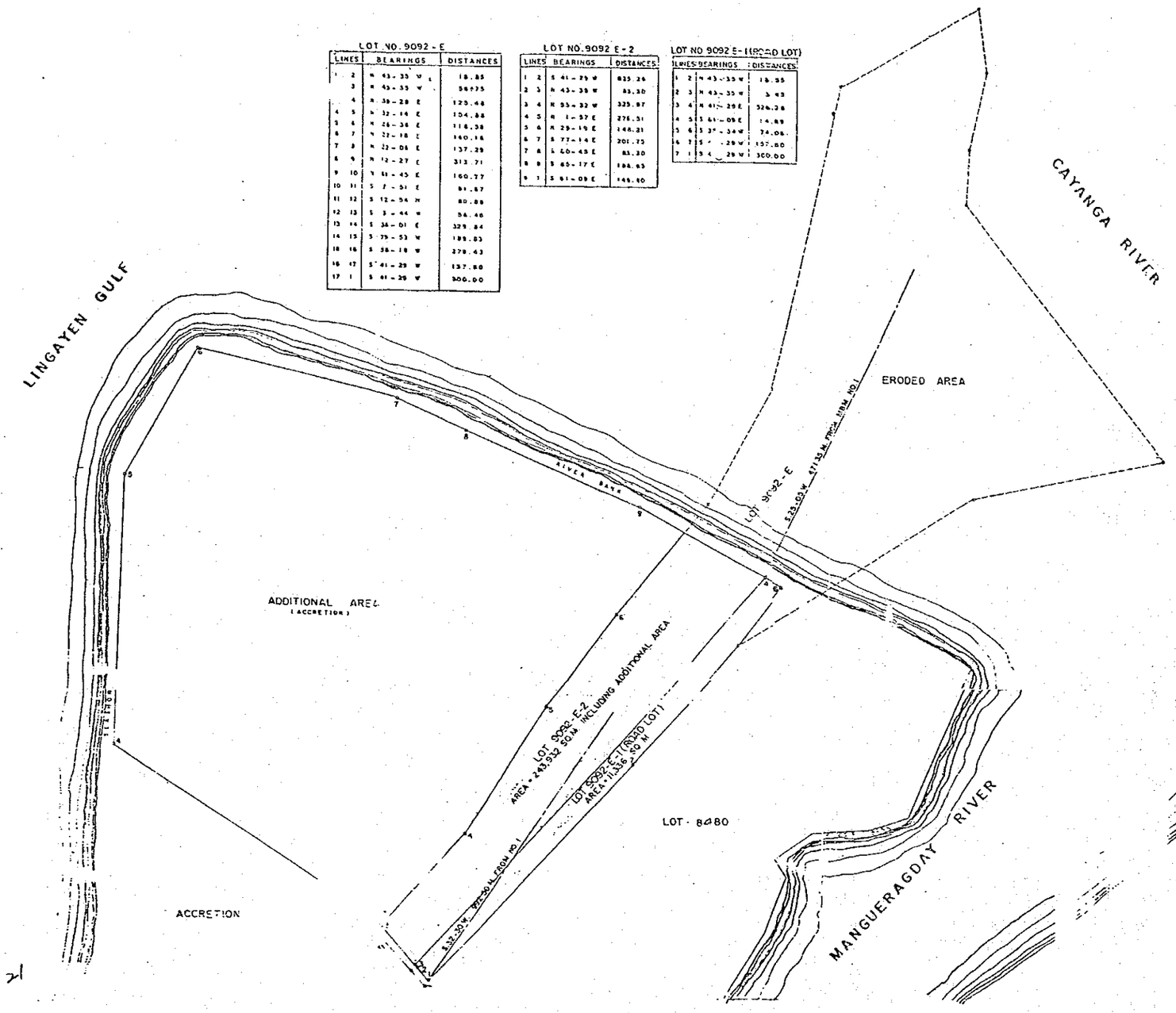


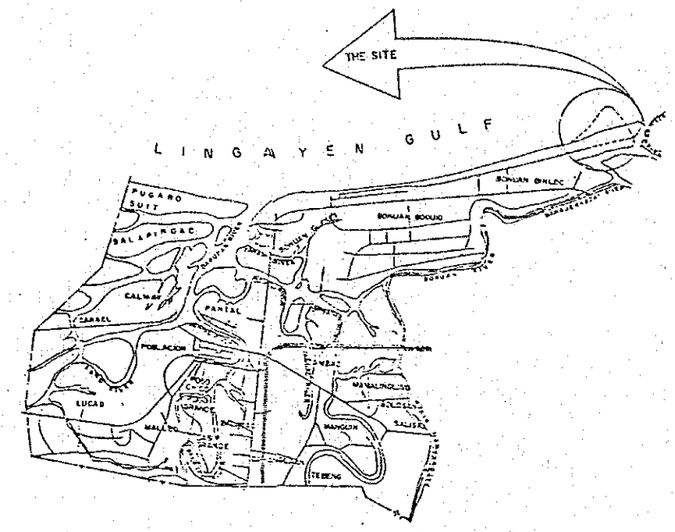
Layout Plan of the Video Studio



System Plan of the Video Studio (Video)


QUARTERS
TOILET
CORRIDOR
PLANT BOX
ENTRANCE TO DORM.-A
ROAD
TO AMPHITHEATER
STORM DRAIN
FIRE HYDRANT
MANHOLE
SITE DEVELOPMENT AROUND
DORMITORY -A





VICINITY PLAN

LEGEND:

ERODED AREA
ADDITIONAL AREA
CADASTRAL LOT

APPROVED

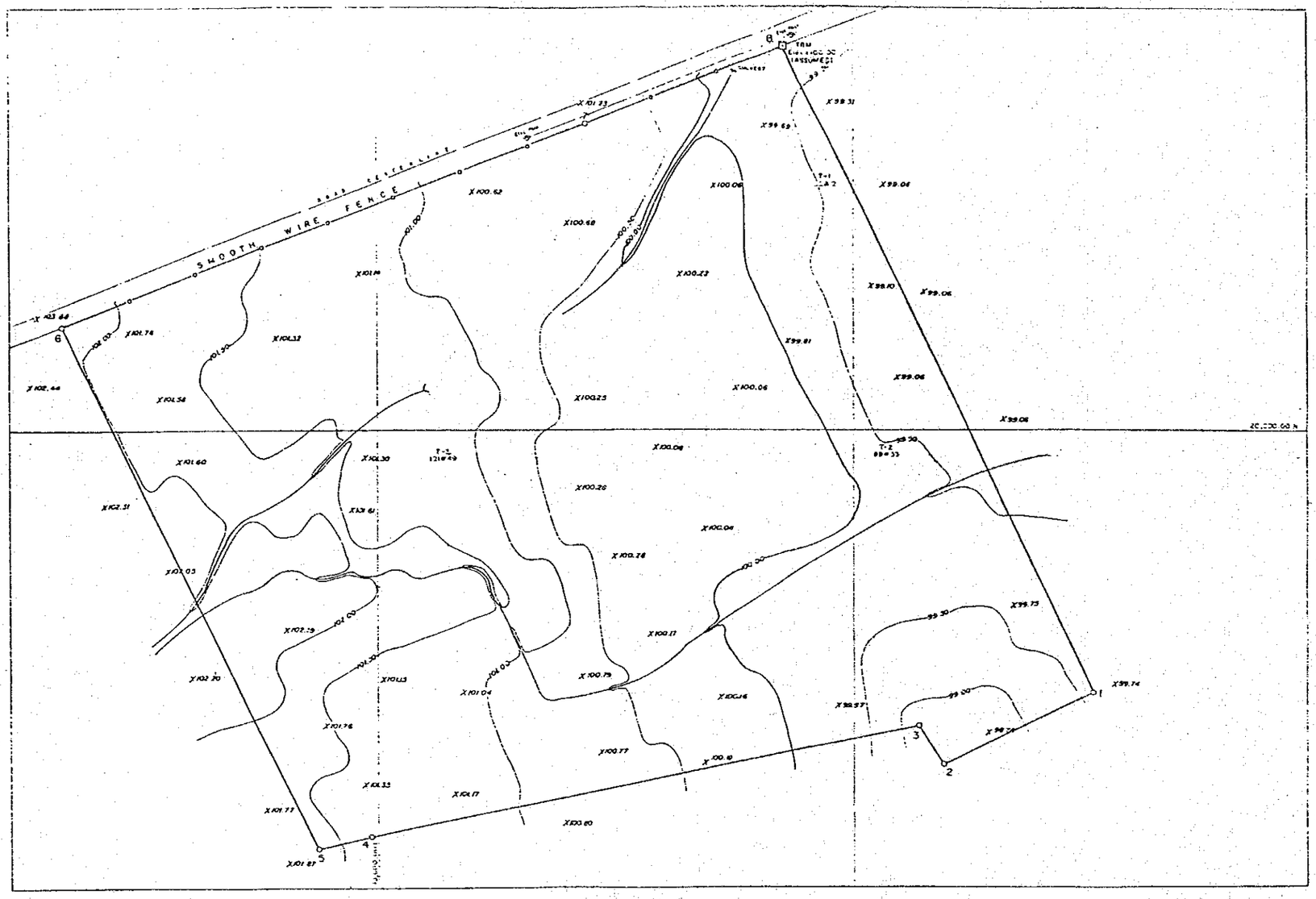
CIPRIANO M. MARADO
CITY MAYOR

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF ENGINEERING & PUBLIC WORKS
OFFICE OF THE CITY ENGINEER
CITY OF DAGUPAN

TITLE:

PROPOSED SITE OF THE DAGUPAN CITY TONDALIGAN AQUAMARINE LABORATORY
AREA = 243,932 SQ M

SURVEY & COMPUTED BY	SUBMITTED BY	CHECKED BY
R.S. BARROZO		
PLOTTED BY		
A.M. CORPUZ		



LEGEND:

ROAD
RAILROAD
RIVER
CREEK
IRRIGATION CANAL
CHURCH, SCHOOL HOUSES
INDEX CONTOUR
INTERMEDIATE CONTOUR
TRAVERSE STATION

TOPOGRAPHIC MAP

OF LOT 711-D, (PORTION)

SITUATED IN THE
MUNICIPALITY OF CARMONA
PROVINCE OF CAVITE ISLAND OF LUZON
CONTAINING AN AREA OF 89,000 SQ M

SCALE 1 1,000

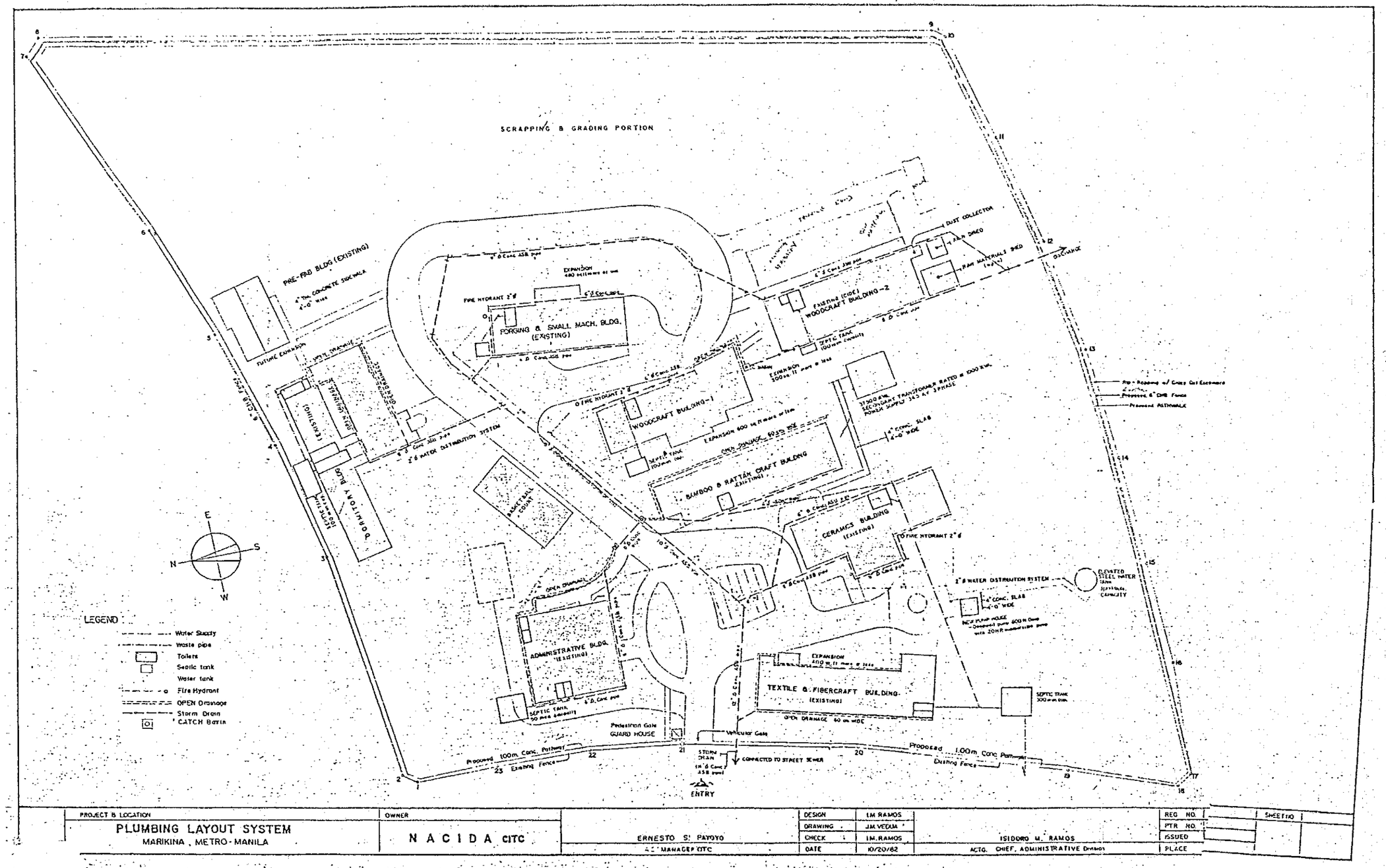
VERTICAL DATUM: ASSUMED

TECHNICAL DESCRIPTION		
B O U N D A R Y		
LINE	BEARING	DISTANCE
1 — 2	S 65° 00 W	70.33 M.
2 — 3	N 32° 27' W	19 46 "
3 — 4	S 78° 23' W	236 54 "
4 — 5	S 74° 54' W	22 25 "
5 — 6	N 2E° 06 W	245 79 "
6 — 7	N 69° 27' E	236 34 "
7 — 8	N 69° 01' E	90 36 "
8 — 1	S 22° 41' E	331 00 "

SUBMITTED BY

IB ENGINEERING
ENGINEERS - SURVEYORS
CONSTRUCTION - MANAGERS

RUFO N. NORADA
GEODETIC ENGINEER



PROJECT & LOCATION: PLUMBING LAYOUT SYSTEM, MARIKINA, METRO-MANILA	OWNER: N A C I D A CITC		DESIGN: I.M. RAMOS	REG NO.	SHEET NO.
			DRAWING: J.M. VEGUA	PTR NO.	
	ERNESTO S. PAYOYO, GEN. MANAGER CITC		CHECK: I.M. RAMOS	ISSUED	
		ISIDORO M. RAMOS, ACTG. CHIEF, ADMINISTRATIVE Division	DATE: 10/20/82	PLACE