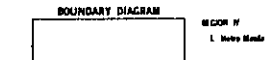


LEGEND

1. BUILT-UP AREA			
RESIDENTIAL	Multi-story Building		Governmental and Social Public
	Residential		Educational and Cultural
	Temporary Building		Health and Welfare
	Shed		Park and Recreational
COMMERCIAL AND BUSINESS	Commercial		Religious and Cemetery
	Small Commercial-Residential		Transportation
	Small Business-Commercial		Service
	Small Business-Industrial		Sports and Stadium
INDUSTRIAL	Large-scale Industrial		Military
	Small-scale Industrial		
	Small Industrial-Commercial		
2. AGRICULTURAL LAND AND FOREST			
AGRICULTURAL LAND	Tree Plant		Forest
	Cropland		Shrub / Bush
	Perennial and Perennial Crop		Wood Land
	Barren		Barren Land
	Open Area		Wood Land
	Plantation		
	Barren		
	Barren		
	Barren		
	Barren		
Barren			
3. OTHERS			
WATER BODIES	Water Surface		Water-related Structure
	Water		Bridge
	Water		Water Tower
	Water		Water Construction
WATER RIGHTS	Water Right		LAND USE BOUNDARY
	Water Right		
	Water Right		
	Water Right		
4. TOPOGRAPHIC FEATURES			
Elevation	Spot Elevation		Spot Elevation
	Contour Interval		Contour Interval
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
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	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
Topographic Features	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
	Spot Elevation		Spot Elevation
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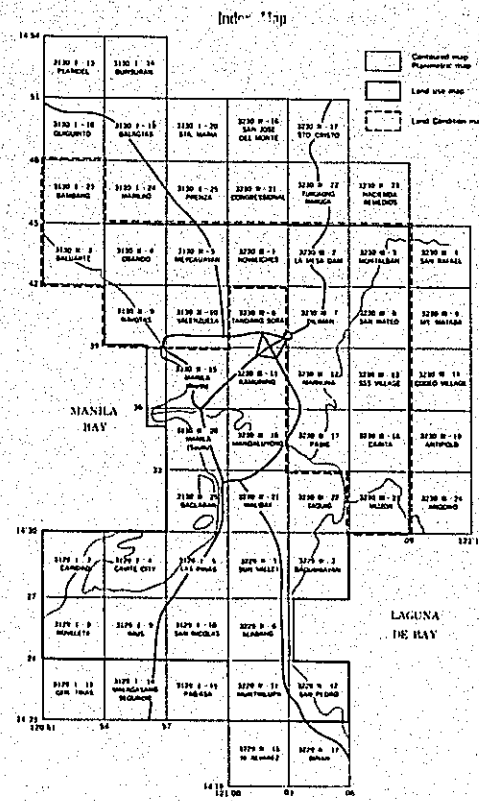
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This map was produced under a cooperative undertaking between the Government of the Republic of the Philippines and the Government of Japan.

METRO MANILA LAND USE MAP
SCALE 1 : 10,000

INFORMATION AND USAGE OF
THE LAND USE MAP



REPUBLIC OF THE PHILIPPINES

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
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- 2-4 It can be more effectively used, together with the land condition map, for verifying the suitability of the present land use as well as for planning of the proper land development.

3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area,
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
- 3-2 The category "Agricultural Land" is divided into Rice Field, Cropland, Plantation, etc. and the category "Forest" is classified into Forest, Grassland and Bare Land. The warehouses for agricultural products and food processing factories are included in Agro-industrial.
- 3-3 The category "Others" consists of "Water Related" and "Open Space," and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

4. Land Use Survey

- 4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.
- 4-2 As for the major changes of land use patterns brought about after

5. Criteria for Representation on the Land Use Map

The criteria for representing the land use classification on the 1:10,000 land use map are as follows:

- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
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 - Business and Commercial,
 - Industrial and Residential,
 - Business and Residential
- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1981 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

1-1 Outline of those maps is as follows:

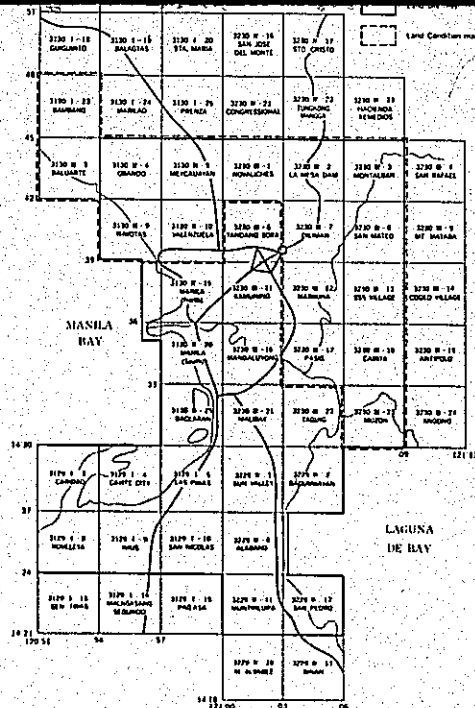
Contoured map (Topographic map)	1 : 10,000	1,500km ² (57 sheets)
Planimetric map	1 : 10,000	1,500km ² (57 sheets)
Land use map	1 : 10,000	823km ² (33 sheets)
Land condition map	1 : 10,000	476km ² (16 sheets)

(see Index Map)

- 1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.
- 1-3 The planimetric map was completed in 1987 by the combination of color separation plates of the contoured map.
- 1-4 The land use map was completed in 1989 using the contoured map as the base and integrating mainly the interpretation of the aerial photographs taken in 1982 and the results of field identification conducted in 1985.
- 1-5 The land condition map was completed in 1989 to represent landform classification, ground elevation, organization and facilities using the contoured map as the base. The representation was made mainly on the basis of the interpretation of the aerial photographs taken in 1982 and 1986, the field identification conducted in 1985 and the data

- 5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential, Temporary Housing, Mixed Commercial-Residential),	Red
Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
Industrial (Large-scale Industrial, Small-scale Industrial, Mixed Industrial-Residential):	Blue-red
Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black



INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

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2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
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3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
- 3-2 The category "Agricultural Land" is divided into Rice Field, Cropland, Plantation, etc. and the category "Forest" is classified into Forest, Grassland and Bare Land. The warehouses for agricultural products and food processing factories are included in Agro-industrial.
- 3-3 The category "Others" consists of "Water Related" and "Open Space" and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

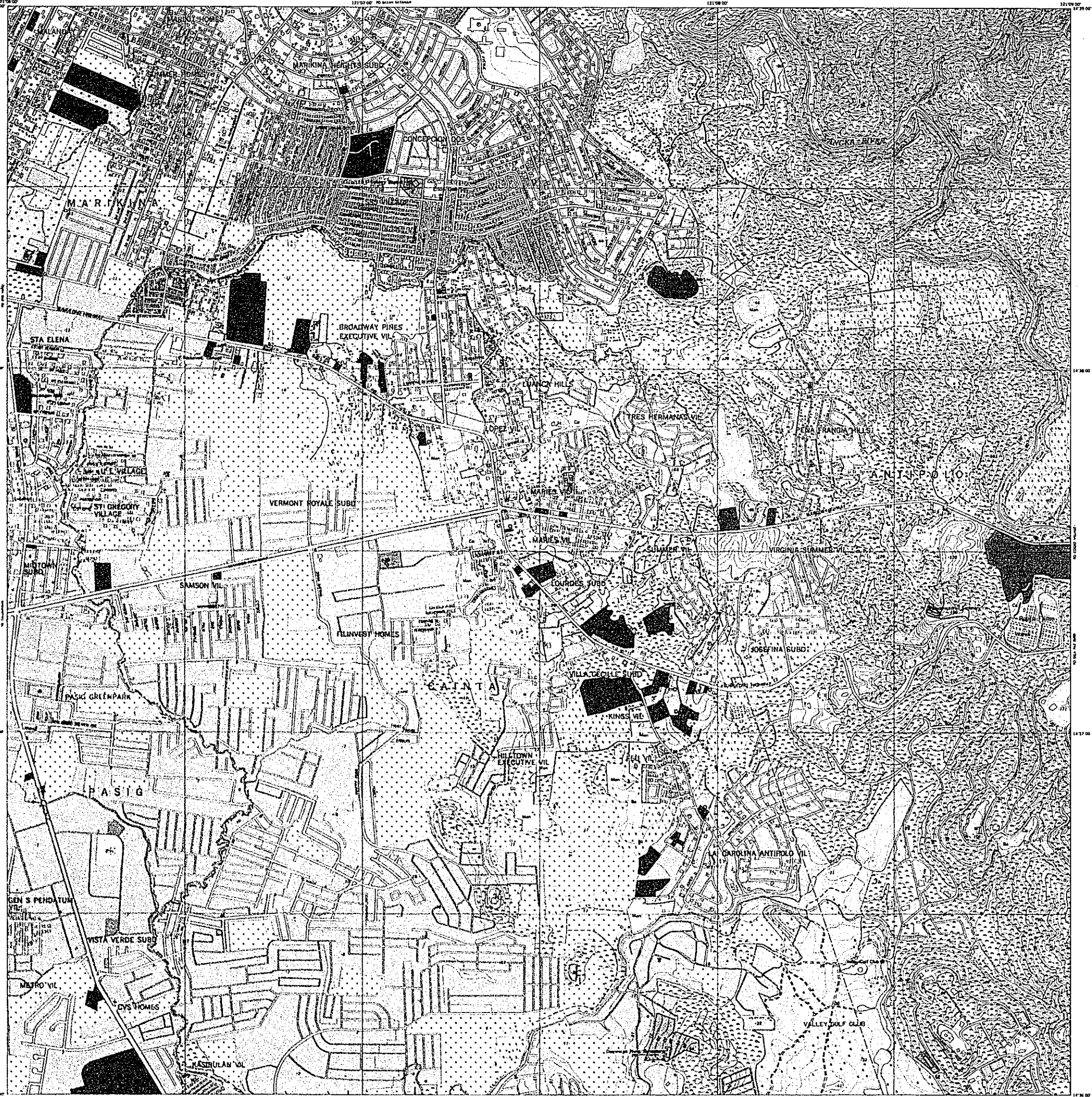
4. Land Use Survey

- 4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.
- 4-2 As for the major changes of land use patterns brought about after 1985, the interpretation of the aerial photographs taken in 1986 and the field completion conducted in 1987 were integrated.

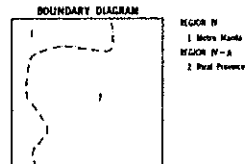
- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
 - Commercial and Residential,
 - Business and Commercial,
 - Industrial and Residential,
 - Business and Residential
- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

- 5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential, Temporary Housing, Mixed Commercial-Residential), Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
Industrial (Large-scale Industrial, Small-scale Industrial, Mixed Industrial-Residential):	Blue-red
Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black



1. BUILT-UP AREA			
RESIDENTIAL	Multi-story Housing		Governmental and Social Parks
	Detached		Recreational and Cultural
	Temporary Housing		Health and Welfare
COMMERCIAL AND BUSINESS	Business		Parks and Recreation
	Commercial		Religious and Community
	Small Commercial/Residential		Transportation
	Small Business/Commercial		Service
INDUSTRIAL	Large-scale Industrial		Sports and Athletics
	Small-scale Industrial		Military
	Small Industrial/Residential		
2. AGRICULTURAL LAND AND FOREST			
AGRICULTURAL LAND	Rice Paddy		Forest
	Cropland		Timber
	Plantation and / or Fruitland		Barren Land
	Barren		Barren Land
	Barren		Barren Land
	Barren		Barren Land
	Barren		Barren Land
	Barren		Barren Land
	Barren		Barren Land
	Barren		Barren Land
3. OTHERS			
WATER FEATURES	State Surface		Water-related Vegetation
	Canal		Swamp
	Sea / Bay		Marsh / Swamp
	Sea / Bay		Open Space
WATER UTILITIES	Water Pipe		Under Construction
	Water Pipe		
4. TOPOGRAPHIC FEATURES			
ELEVATION	Spot Elevation		Spot Elevation
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
	Contour Interval		Contour Interval
BOUNDARIES	Political Boundary		Political Boundary
	City and Municipal Boundary		City / Town
	City		City
	Province		Province
	Province		Province
	Province		Province
	Province		Province
	Province		Province
	Province		Province
	Province		Province
BUILDINGS	Government Building		Government Building
	Public Office		Public Office
	Public Office		Public Office
	Public Office		Public Office
	Public Office		Public Office
	Public Office		Public Office
	Public Office		Public Office
	Public Office		Public Office
	Public Office		Public Office
	Public Office		Public Office

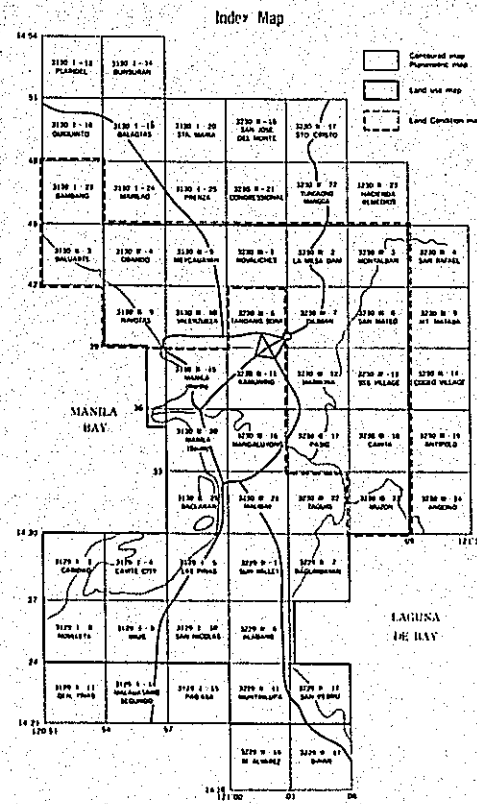


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METRO MANILA LAND USE MAP
SCALE 1 : 10,000

INFORMATION AND USAGE OF
THE LAND USE MAP



REPUBLIC OF THE PHILIPPINES

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1984 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

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Contoured map (Topographic map)	1 : 10,000	1,500km ² (57 sheets)
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(see Index Map)

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2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

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- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
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The land use is classified into the following three major categories:

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- Others

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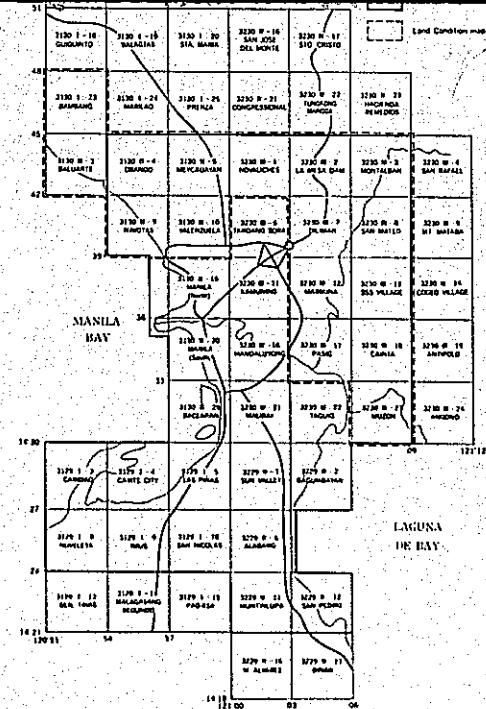
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The criteria for representing the land use classification on the 1:10,000 land use map are as follows:

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Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black



INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

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Land use map	1 : 10,000	82.16km ² (33 sheets)
Land condition map	1 : 10,000	176km ² (16 sheets)

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- Business and Residential

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Residential (Multi-story Housing, Residential,

Temporary Housing, Mixed Commercial-Residential),

Land Use Boundary: Red

Business, Commercial, Public (Educational and Cultural):

Orange

Industrial (Large-scale Industrial,

Small-scale Industrial,

Mixed Industrial-Residential):

Blue-red

Mixed (Mixed Business-Commercial,

Mixed Business-Residential):

Red-orange

Public and Government (Government

and Quasi-public) and Facilities

(Transportation, Service, Sports

and Athletics):

Brown

Public and Government (Health and Welfare,

Religious and Cemetery, Park and

Recreational), Forest:

Green

Agricultural Land:

Yellow-brown

Water Related:

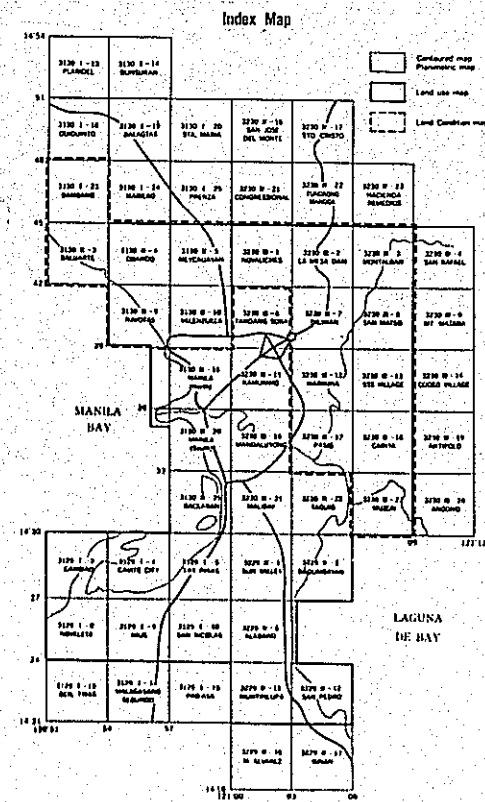
Blue

Base Map and Annotation:

Black

METRO MANILA LAND USE MAP
SCALE 1 : 10,000

**INFORMATION AND USAGE OF
THE LAND USE MAP**



REPUBLIC OF THE PHILIPPINES

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1984 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

1-1 Outline of those maps is as follows:

Contoured map (Topographic map)	1 : 10,000	1,500km ² (57 sheets)
Planimetric map	1 : 10,000	1,500km ² (57 sheets)
Land use map	1 : 10,000	823km ² (33 sheets)
Land condition map	1 : 10,000	476km ² (16 sheets)

(see Index Map)

1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.

1-3 The planimetric map was completed in 1987 by the combination of color separation plates of the contoured map.

1-4 The land use map was completed in 1989 using the contoured map as the base and integrating mainly the interpretation of the aerial photographs taken in 1982 and the results of field identification conducted in 1985.

1-5 The land condition map was completed in 1989 to represent landform classification, ground elevation, organization and facilities using the contoured map as the base. The representation was made mainly on the basis of the interpretation of the aerial photographs taken in 1982

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
- 2-3 Public organizations and private enterprises can use it for the proper selection and development of sites for their activities.
- 2-4 It can be more effectively used, together with the land condition map, for verifying the suitability of the present land use as well as for planning of the proper land development.

3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area,
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
- 3-2 The category "Agricultural Land" is divided into Rice Field, Cropland, Plantation, etc. and the category "Forest" is classified into Forest, Grassland and Bare Land. The warehouses for agricultural products and food processing factories are included in Agro-industrial.
- 3-3 The category "Others" consists of "Water Related" and "Open Space", and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

4. Land Use Survey

4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.

4-2 As for the major changes of land use patterns brought about after

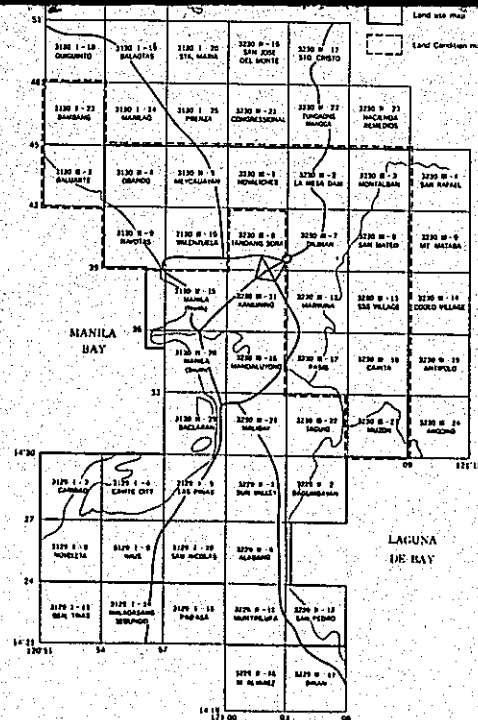
5. Criteria for Representation on the Land Use Map

The criteria for representing the land use classification on the 1:10,000 land use map are as follows:

- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
 - Commercial and Residential,
 - Business and Commercial,
 - Industrial and Residential,
 - Business and Residential
- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential, Temporary Housing, Mixed Commercial-Residential), Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
Industrial (Large-scale Industrial, Small-scale Industrial, Mixed Industrial-Residential):	Blue-red
Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black



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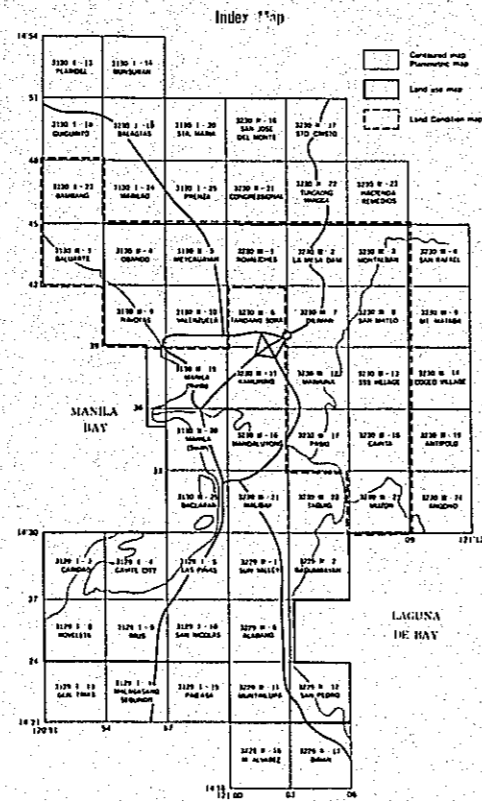
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Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black

METRO MANILA LAND USE MAP
SCALE 1 : 10,000

INFORMATION AND USAGE OF
THE LAND USE MAP



REPUBLIC OF THE PHILIPPINES

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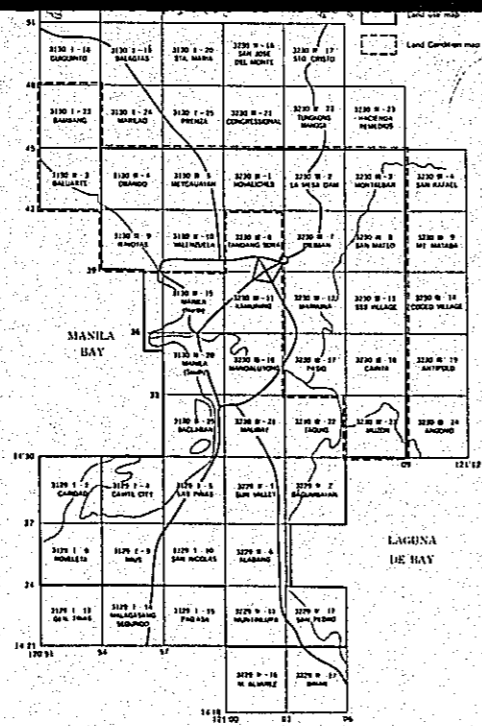
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INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

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(see Index Map)

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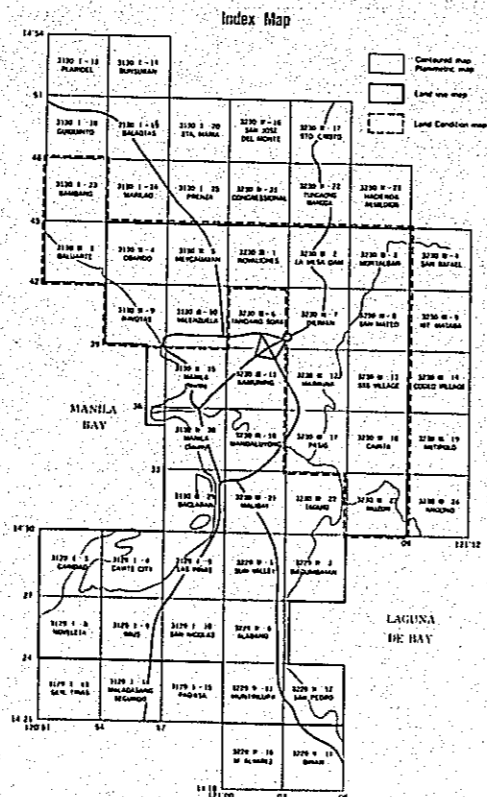
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METRO MANILA LAND USE MAP
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INFORMATION AND USAGE OF
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REPUBLIC OF THE PHILIPPINES



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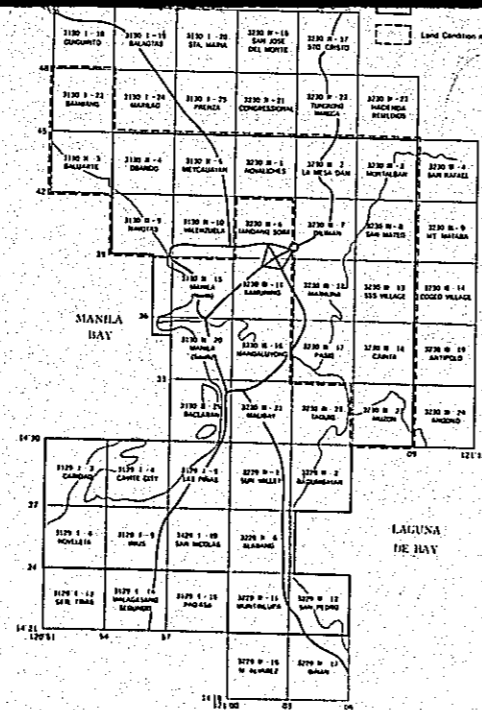
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Water Related: Blue

Base Map and Annotation: Black



INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning, the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
- 2-3 Public organizations and private enterprises can use it for the proper selection and development of sites for their activities.
- 2-4 It can be more effectively used, together with the land condition map, for verifying the suitability of the present land use as well as for planning of the proper land development.

3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area,
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
- 3-2 The category "Agricultural Land" is divided into Rice Field, Cropland, Plantation, etc. and the category "Forest" is classified into Forest, Grassland and Bare Land. The warehouses for agricultural products and food processing factories are included in Agro-Industrial.
- 3-3 The category "Others" consists of "Water Related" and "Open Space," and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

4. Land Use Survey

- 4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.
- 4-2 As for the major changes of land use patterns brought about after 1985, the interpretation of the aerial photographs taken in 1986 and the field completion conducted in 1987 were integrated.

- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
 - Commercial and Residential,
 - Business and Commercial,
 - Industrial and Residential,
 - Business and Residential
- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1981 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

1-1 Outline of those maps is as follows:

Contoured map (Topographic map)	1 : 10,000	1,500km ² (57 sheets)
Planimetric map	1 : 10,000	1,500km ² (57 sheets)
Land use map	1 : 10,000	823km ² (33 sheets)
Land condition map	1 : 10,000	476km ² (16 sheets)

(see Index Map)

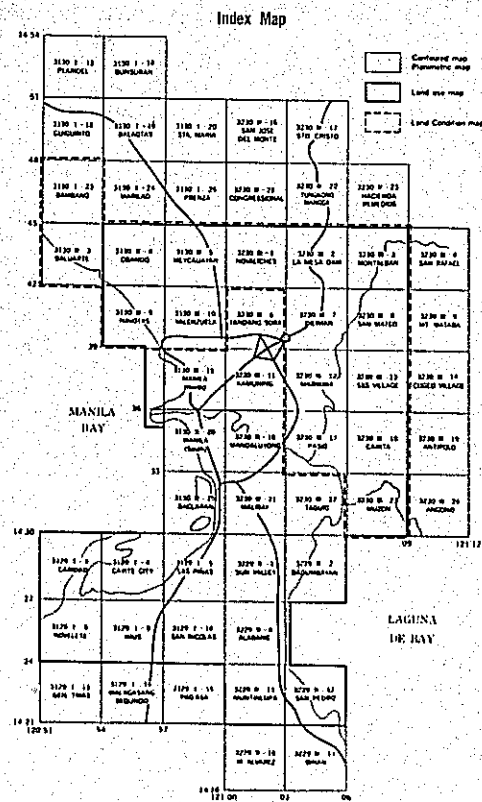
- 1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.
- 1-3 The planimetric map was completed in 1987 by the combination of color separation plates of the contoured map.
- 1-4 The land use map was completed in 1989 using the contoured map as the base and integrating mainly the interpretation of the aerial photographs taken in 1982 and the results of field identification conducted in 1985.
- 1-5 The land condition map was completed in 1989 to represent landform classification, ground elevation, organization and facilities using the contoured map as the base. The representation was made mainly on the basis of the interpretation of the aerial photographs taken in 1982 and 1986, the field identification conducted in 1985 and the data provided by the agencies concerned in the Philippines.

- 5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential, Temporary Housing, Mixed Commercial-Residential), Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
Industrial (Large-scale Industrial, Small-scale Industrial, Mixed Industrial-Residential):	Blue-red
Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black

METRO MANILA LAND USE MAP
SCALE 1:10,000

INFORMATION AND USAGE OF
THE LAND USE MAP



REPUBLIC OF THE PHILIPPINES

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1981 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

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Planimetric map	1:10,000	1,500km ² (57 sheets)
Land use map	1:10,000	823km ² (33 sheets)
Land condition map	1:10,000	476km ² (16 sheets)

(see Index Map)

1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.

1-3 The planimetric map was completed in 1987 by the combination of color separation plates of the contoured map.

1-4 The land use map was completed in 1989 using the contoured map as the base and integrating mainly the interpretation of the aerial photographs taken in 1982 and the results of field identification conducted in 1985.

1-5 The land condition map was completed in 1989 to represent landform classification, ground elevation, organization and facilities using the contoured map as the base. The representation was made mainly on the basis of the interpretation of the aerial photographs taken in 1982 and 1986, the field identification conducted in 1985 and the data

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
- 2-3 Public organizations and private enterprises can use it for the proper selection and development of sites for their activities.
- 2-4 It can be more effectively used, together with the land condition map, for verifying the suitability of the present land use as well as for planning of the proper land development.

3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area,
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
- 3-2 The category "Agricultural Land" is divided into Rice Field, Cropland, Plantation, etc. and the category "Forest" is classified into Forest, Grassland and Bare Land. The warehouses for agricultural products and food processing factories are included in Agro-industrial.
- 3-3 The category "Others" consists of "Water Related" and "Open Space" and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

4. Land Use Survey

4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.

4-2 As for the major changes of land use patterns brought about after

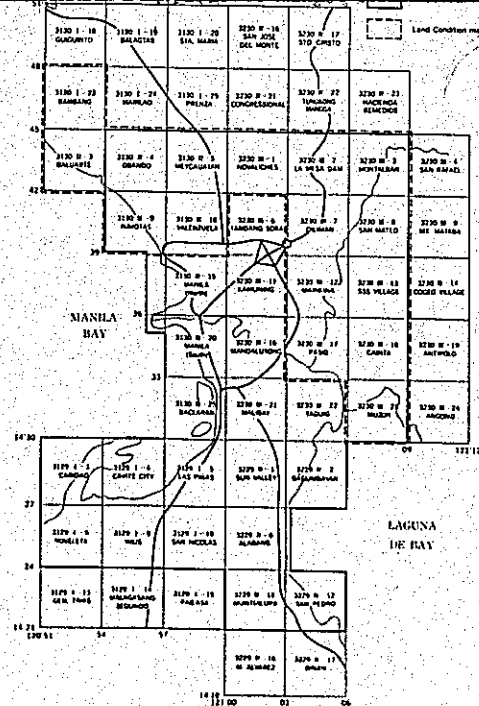
5. Criteria for Representation on the Land Use Map

The criteria for representing the land use classification on the 1:10,000 land use map are as follows:

- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
 - Commercial and Residential,
 - Business and Commercial,
 - Industrial and Residential,
 - Business and Residential
- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential, Temporary Housing, Mixed Commercial-Residential),	Red
Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
Industrial (Large-scale Industrial, Small-scale Industrial, Mixed Industrial-Residential):	Blue-red
Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black



INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1984 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

1-1 Outline of those maps is as follows:

Contoured map (Topographic map)	1 : 10,000	1,500km ² (157 sheets)
Planimetric map	1 : 10,000	1,500km ² (157 sheets)
Land use map	1 : 10,000	820km ² (33 sheets)
Land condition map	1 : 10,000	476km ² (16 sheets)

(See Index Map)

1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.

1-3 The planimetric map was completed in 1987 by the combination of color separation plates of the contoured map.

1-4 The land use map was completed in 1989 using the contoured map as the base and integrating mainly the interpretation of the aerial photographs taken in 1982 and the results of field identification conducted in 1985.

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2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.

2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.

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3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area.
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.

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3-3 The category "Others" consists of "Water Related" and "Open Space" and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

4. Land Use Survey

4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.

4-2 As for the major changes of land use patterns brought about after 1985, the interpretation of the aerial photographs taken in 1986 and the field completion conducted in 1987 were integrated.

5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.

5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.

5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.

5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.

5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:

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- Industrial and Residential,
- Business and Residential

5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential,

Temporary Housing, Mixed Commercial-Residential),

Land Use Boundary: Red

Business, Commercial, Public (Educational and Cultural):

Orange

Industrial (Large-scale Industrial,

Small-scale Industrial,

Mixed Industrial-Residential):

Blue-red

Mixed (Mixed Business-Commercial,

Mixed Business-Residential):

Red-orange

Public and Government (Government and Quasi-public) and Facilities

(Transportation, Service, Sports

and Athletics):

Brown

Public and Government (Health and Welfare,

Religious and Cemetery, Park and

Recreational), Forest:

Green

Agricultural Land:

Yellow-brown

Water Related:

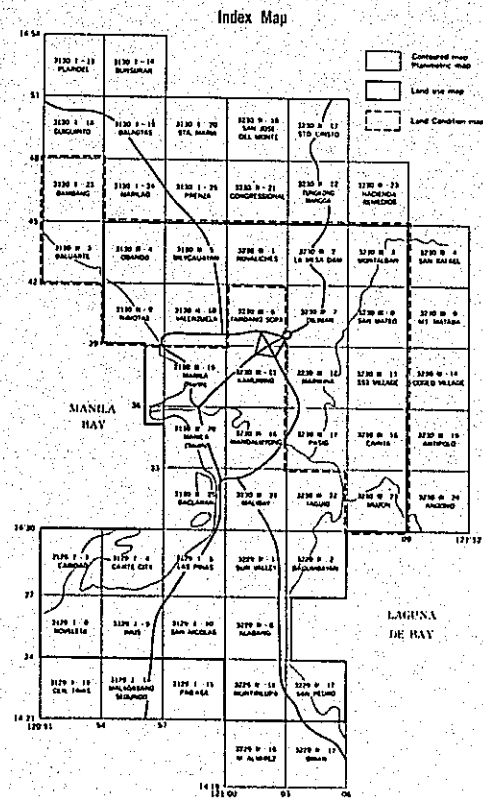
Blue

Base Map and Annotation:

Black

METRO MANILA LAND USE MAP
SCALE 1 : 10,000

INFORMATION AND USAGE OF
THE LAND USE MAP



5. Criteria for Representation on the Land Use Map

The criteria for representing the land use classification on the 1:10,000 land use map are as follows:

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 - Business and Residential
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REPUBLIC OF THE PHILIPPINES

2. Utilization of Land Use Map

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4. Land Use Survey

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1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1981 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

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Land condition map	1 : 10,000	476km ² (116 sheets)

(see Index Map)

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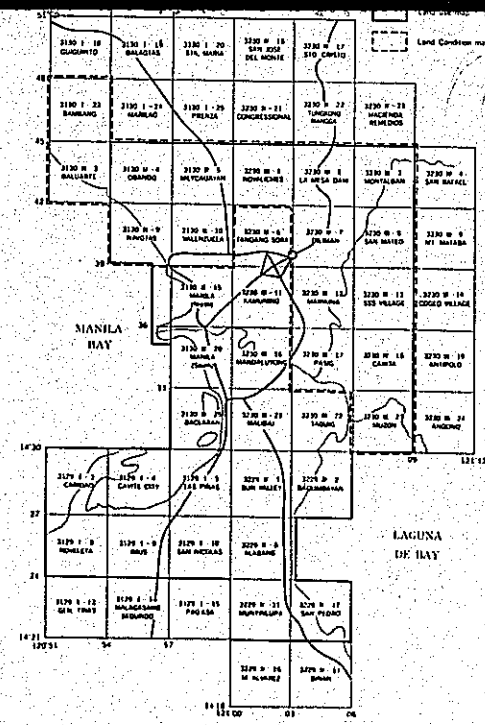
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Base Map and Annotation:	Black



INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

2. Utilization of Land Use Map

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Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
Industrial (Large-scale Industrial, Small-scale Industrial, Mixed Industrial-Residential):	Blue-red
Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black

1. Background

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(see Index Map)

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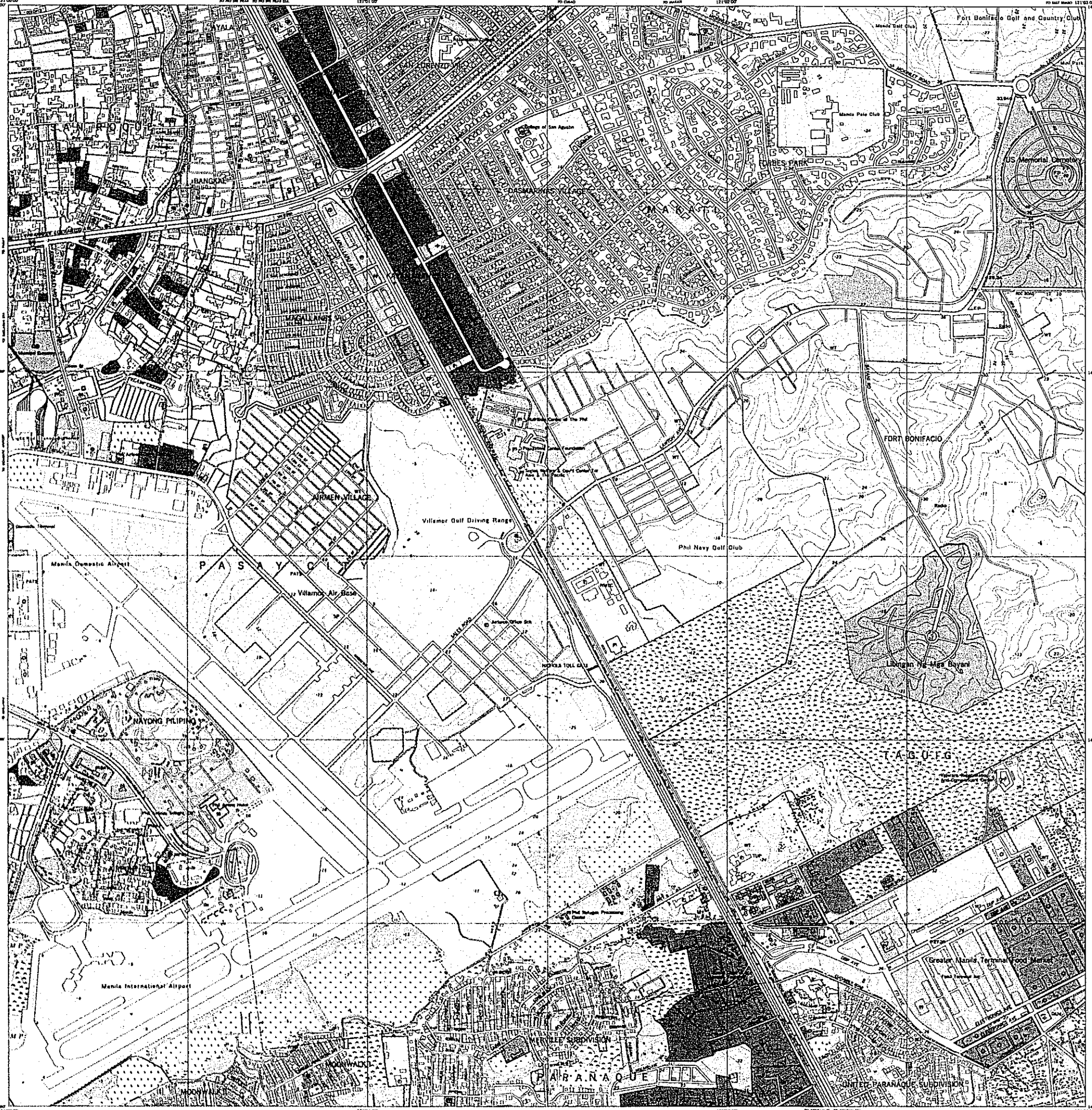
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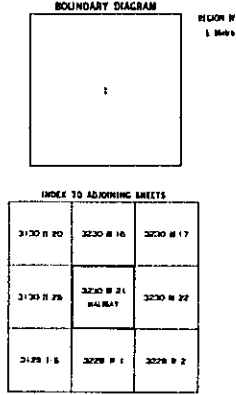
MALIBAY

LEGEND



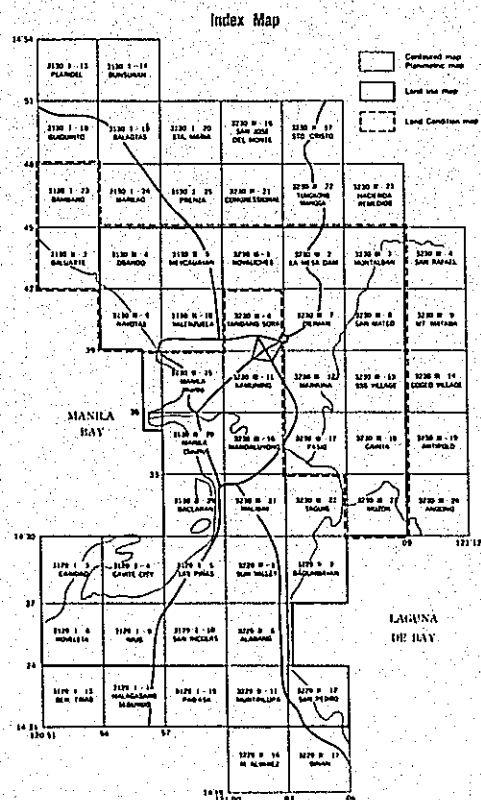
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This map was produced under a cooperative undertaking between the Government of the Republic of the Philippines and the



METRO MANILA LAND USE MAP
SCALE 1 : 10,000

**INFORMATION AND USAGE OF
THE LAND USE MAP**



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- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
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REPUBLIC OF THE PHILIPPINES

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

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The land use is classified into the following three major categories:

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- Others

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- 4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.

- 4-2 As for the major changes of land use patterns brought about after

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1984 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

1-1 Outline of those maps is as follows:

Contoured map (Topographic map)	1 : 10,000	1,500km ² (57 sheets)
Planimetric map	1 : 10,000	1,500km ² (57 sheets)
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(see Index Map)

1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.

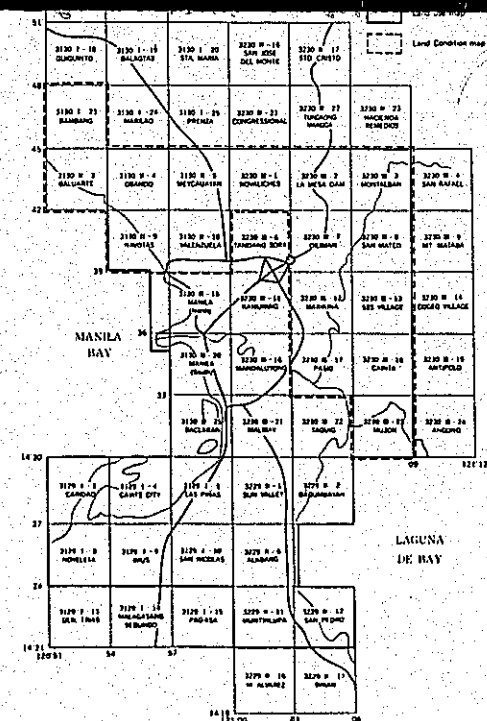
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- 5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

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Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
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Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black



INFORMATION AND USAGE OF THE LAND USE MAP

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REPUBLIC OF THE PHILIPPINES

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4. Land Use Survey

- 4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.
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I. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1981 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

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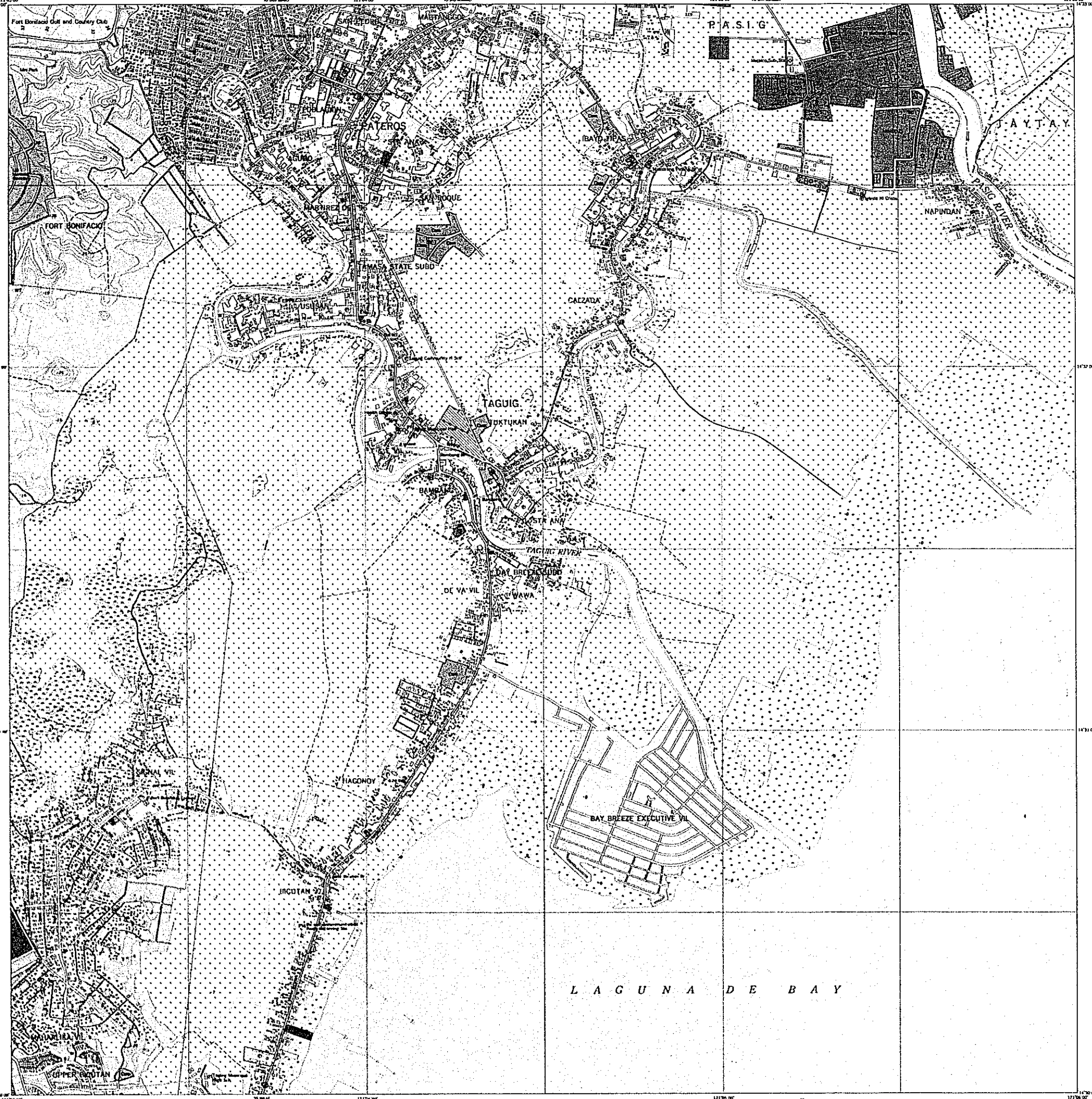
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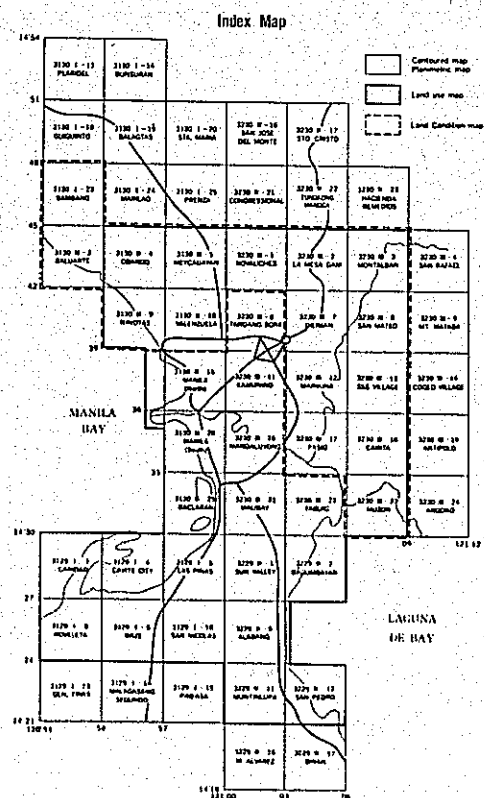


1. BUILT-UP AREA		
RESIDENTIAL	Single-family Dwelling Residential Temporary Dwelling Medium Commercial Mixed Commercial/Residential Mixed Business Commercial Mixed Business-Residential Large-scale Industrial Small-scale Industrial Mixed Industrial/Residential	
COMMERCIAL AND BUSINESS	Governmental and Semi-Public Institutional and Cultural Health and Welfare Post and Broadcasting Religion and Cemetery Transportation Services Sports and Amusement Military	
2. AGRICULTURAL LAND AND FOREST		
AGRICULTURAL LAND	Rice Paddy Dryland Pastureland and Forestland Pasture Orchard Forest Other Agro-industrial	
WATER RELATED	Water Surface Water Canal Dam / Weir Water Pond Salt Pond Salt Bed	
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BOUNDARY DIAGRAM		
RESIDE W 1 Meter Road RESIDE W-A 1 Meter Road 1 Meter Road		
INDEX TO ADJOINING SHEETS		
3230-III-21	3230-III-22 TAGUIG	3230-III-23
3228-III-1	3228-III-2	

This map was produced under a cooperative undertaking between the Department of the Interior and the Philippine and U.S. Army.

METRO MANILA LAND USE MAP
SCALE 1 : 10,000

INFORMATION AND USAGE OF
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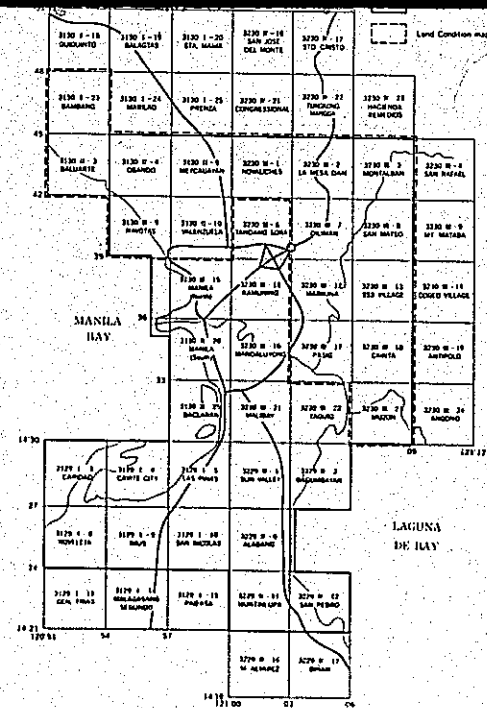
1-3 The planimetric map was completed in 1987 by the combination of color separation plates of the contoured map.

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5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential, Temporary Housing, Mixed Commercial-Residential),	Red
Land Use Boundary:	Red
Business, Commercial, Public (Educational and Cultural):	Orange
Industrial (Large-scale Industrial, Small-scale Industrial, Mixed Industrial-Residential):	Blue-red
Mixed (Mixed Business-Commercial, Mixed Business-Residential):	Red-orange
Public and Government (Government and Quasi-public) and Facilities (Transportation, Service, Sports and Athletics):	Brown
Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black



INFORMATION AND USAGE OF THE LAND USE MAP

- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
 - Commercial and Residential,
 - Business and Commercial,
 - Industrial and Residential,
 - Business and Residential
- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
- 2-3 Public organizations and private enterprises can use it for the proper selection and development of sites for their activities.
- 2-4 It can be more effectively used, together with the land condition map, for verifying the suitability of the present land use as well as for planning of the proper land development.

3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area,
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
- 3-2 The category "Agricultural Land" is divided into Rice Field, Cropland, Plantation, etc. and the category "Forest" is classified into Forest, Grassland and Bare Land. The warehouses for agricultural products and food processing factories are included in Agro-industrial.
- 3-3 The category "Others" consists of "Water Related" and "Open Space" and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

4. Land Use Survey

- 4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.
- 4-2 As for the major changes of land use patterns brought about after 1985, the interpretation of the aerial photographs taken in 1986 and the field completion conducted in 1987 were integrated.

- 5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

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Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base Map and Annotation:	Black

REPUBLIC OF THE PHILIPPINES

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1984 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

1-1 Outline of these maps is as follows:

Contoured map (Topographic map) 1 : 10,000	1,500km ² (57 sheets)
Planimetric map 1 : 10,000	1,500km ² (57 sheets)
Land use map 1 : 10,000	823km ² (33 sheets)
Land condition map 1 : 10,000	476km ² (16 sheets)

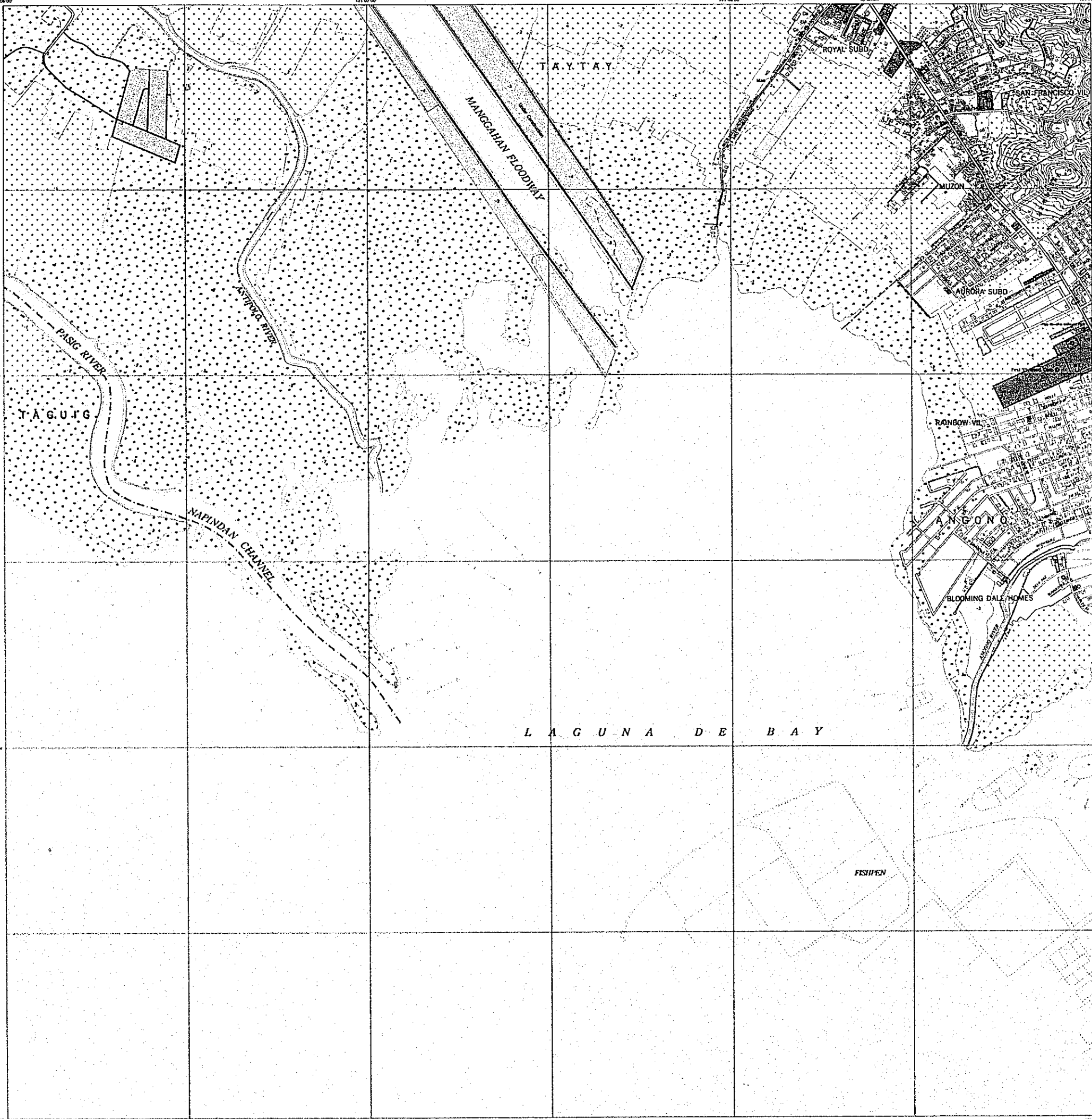
(see Index Map)

1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.

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1. BUILT-UP AREA

RESIDENTIAL	Multi-story Building	Single-story Building	Public and Institutional	Governmental and Semi-public
COMMERCIAL AND BUSINESS	Business	Medium Commercial	INDUSTRIAL	Industrial
	General	Medium Commercial (Residential)		Large-scale Industrial
	Medium Commercial	Medium Commercial (Residential)		Small-scale Industrial
	Medium Commercial (Residential)	Medium Industrial (Residential)		Medium Industrial (Residential)

2. AGRICULTURAL LAND AND FOREST

AGRICULTURAL LAND	Bar Fields	Forest
	Cropland	Forest (Bar)
	Plantation and Forested Area	Forest (Bar)
	Barren	Forest
	Barren	Barren Land
	Barren	Barren Land
	Barren	Barren Land
	Barren	Barren Land

3. OTHERS

Water Surface	Water-filled	Water-filled Vegetation
Water-filled	Water-filled	Water-filled
Water-filled	Water-filled	Water-filled
Water-filled	Water-filled	Water-filled
Water-filled	Water-filled	Water-filled
Water-filled	Water-filled	Water-filled

4. TOPOGRAPHIC FEATURES

Contour	Contour	Contour
Contour	Contour	Contour
Contour	Contour	Contour
Contour	Contour	Contour
Contour	Contour	Contour
Contour	Contour	Contour
Contour	Contour	Contour

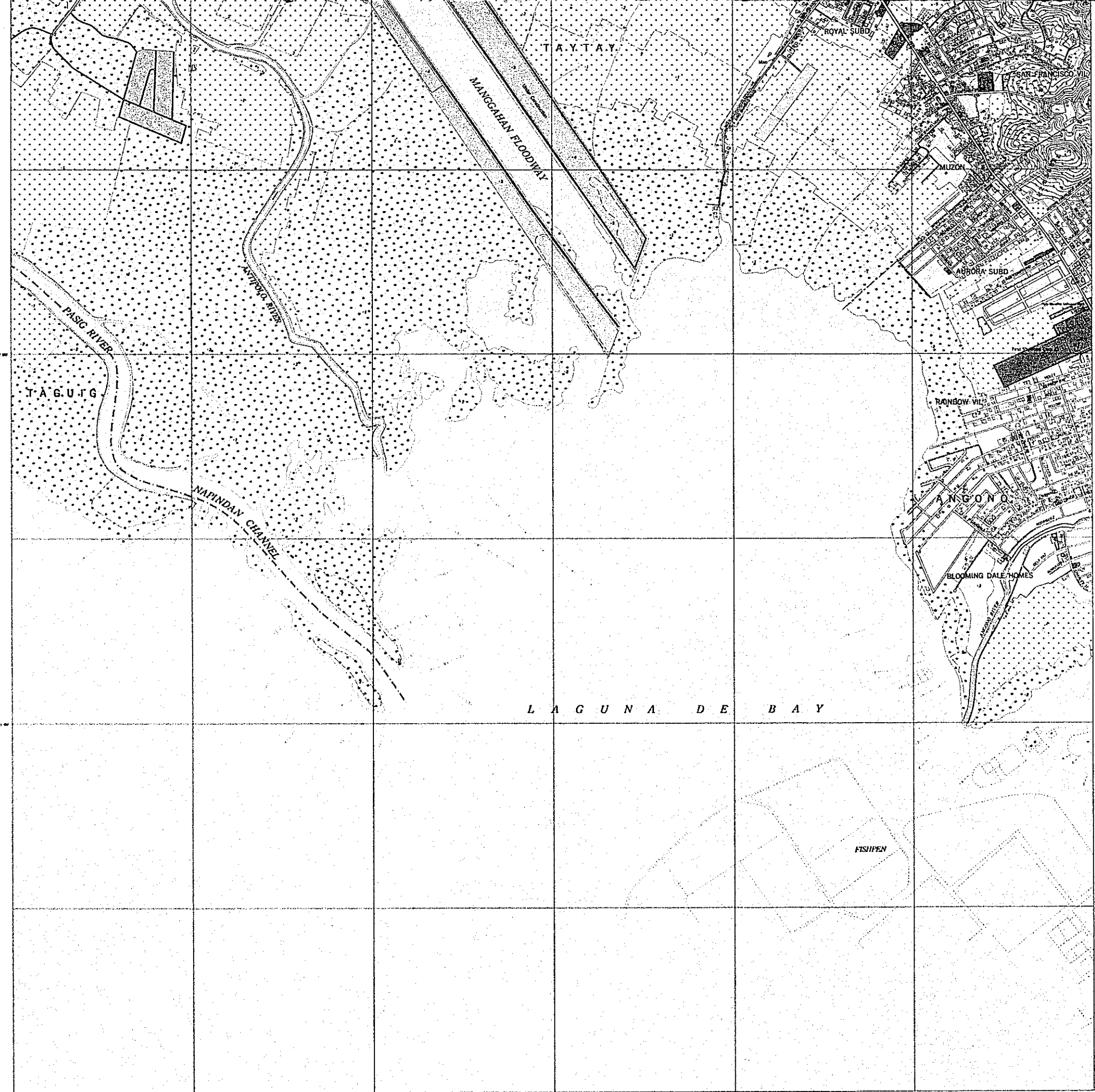
5. LAND USE BOUNDARY

Boundary	Boundary	Boundary
Boundary	Boundary	Boundary
Boundary	Boundary	Boundary
Boundary	Boundary	Boundary
Boundary	Boundary	Boundary
Boundary	Boundary	Boundary
Boundary	Boundary	Boundary



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3230 III 22	3230 III 23 MATCH	3230 III 24
3228 III 7		



COMMERCIAL AND BUSINESS		PUBLIC AND RECREATION	
Small Store Building	[Symbol]	Small Public	[Symbol]
Commercial	[Symbol]	Amusement and Cultural	[Symbol]
Temporary Building	[Symbol]	Health and Welfare	[Symbol]
Business	[Symbol]	Park and Recreation	[Symbol]
Commercial	[Symbol]	Religious and Cemetery	[Symbol]
Small Commercial Building	[Symbol]	Transportation	[Symbol]
Small Business-Commercial	[Symbol]	Service	[Symbol]
Small Business-Residential	[Symbol]	Sports and Amuse	[Symbol]
Large-scale Industrial	[Symbol]	Military	[Symbol]
Small-scale Industrial	[Symbol]		
Small Industrial Building	[Symbol]		

2. AGRICULTURAL LAND AND FOREST			
No Field	[Symbol]	Forest	[Symbol]
Cleared	[Symbol]		
Plantations and Forested Area	[Symbol]		
Agri-inhabited	[Symbol]		

3. OTHERS			
Water Surface	[Symbol]	Water-related Vegetation	[Symbol]
Shallow	[Symbol]		
Deep	[Symbol]		
Shoal	[Symbol]		
Shoal Bank	[Symbol]		
Shoal Reef	[Symbol]		
Land Use Boundary	[Symbol]		

4. TOPOGRAPHIC FEATURES	
Spot Elevation	[Symbol]
Contour Interval	[Symbol]
Spot Elevation	[Symbol]
Contour Interval	[Symbol]
Spot Elevation	[Symbol]
Contour Interval	[Symbol]
Spot Elevation	[Symbol]
Contour Interval	[Symbol]
Spot Elevation	[Symbol]
Contour Interval	[Symbol]
Spot Elevation	[Symbol]
Contour Interval	[Symbol]

5. OTHERS	
Public Station	[Symbol]
Post Office	[Symbol]
Police Station	[Symbol]
Market	[Symbol]
Religious	[Symbol]
Health Center	[Symbol]
Public Building	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]
Public Office	[Symbol]

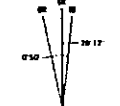
This map was prepared under a cooperative understanding between the Government of the Republic of the Philippines and the Government of Japan.

Date Map Completed: May 1983 (AGRS/1000)
 Digital Photography: 1983 & 1985
 Data Digitization: by AGRS in 1988-1989
 Data compilation by AGRS & JICA 1992
 Distributed by National Mapping and Research Institute (NAMI) (42268018/92)
 Each Aerial Photograph, Master, Master Master
 © COPYRIGHT RESERVED

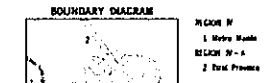
SCALE 1:10,000

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
 ZONE 51 CLARKE SPHEROID 1866 LUZON DATUM
 VERTICAL DATUM: MSL FOR HEIGHTS MLLW FOR DEPTHS

CONTOUR INTERVAL 4 METERS



This North Arrow Deviates and True North are shown in blue lines relative positions. Reported North is correct for 1983 and would vary slightly by about 2"



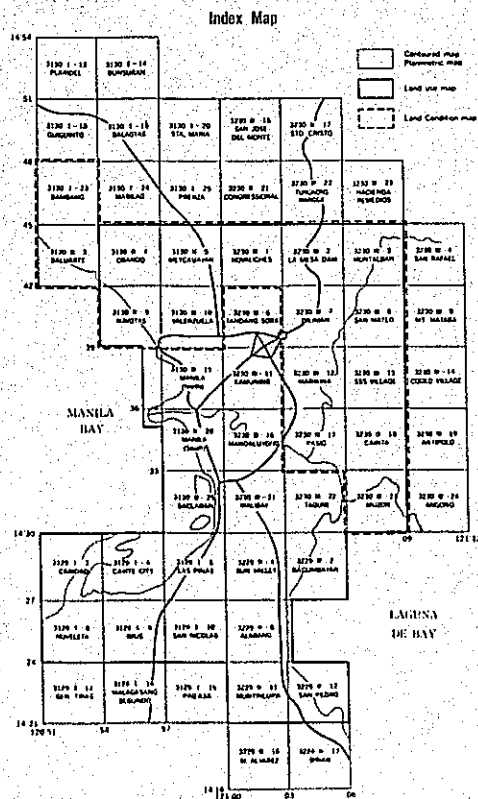
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3230 III 2		

MUZON
 Sheet No.3230-III-23



METRO MANILA LAND USE MAP
SCALE 1 : 10,000



INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1984 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

In response to the request for technical cooperation, the Japanese Government sent preliminary survey teams to Manila in January through March 1985 for discussions with the authorities concerned in the Philippine Government and for field survey and data collection in the Region. The Japanese Government consequently agreed on a 4-year technical cooperation program starting in 1985.

1-1 Outline of those maps is as follows:

Contoured map (Topographic map)	1 : 10,000	1,500km ² (57 sheets)
Planimetric map	1 : 10,000	1,500km ² (57 sheets)
Land use map	1 : 10,000	823km ² (33 sheets)
Land condition map	1 : 10,000	476km ² (16 sheets)

(see Index Map)

1-2 The contoured map was completed in 1987. The aerial photographs taken in 1982 were used for field identification and stereo plotting. As for the major changes after aerial photography, the results of field completion conducted in 1986 and the interpretation of the aerial photographs taken in the same year were integrated.

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1-5 The land condition map was completed in 1989 to represent landform classification, ground elevation, organization and facilities using the contoured map as the base. The representation was made mainly on the basis of the interpretation of the aerial photographs taken in 1982

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
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The land use is classified into the following three major categories:

- Built-up Area,
- Agricultural Land and Forest,
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
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- 3-3 The category "Others" consists of "Water Related" and "Open Space," and the "Water Related" includes Marine Pond, Salt Bed and Water-related Vegetation.

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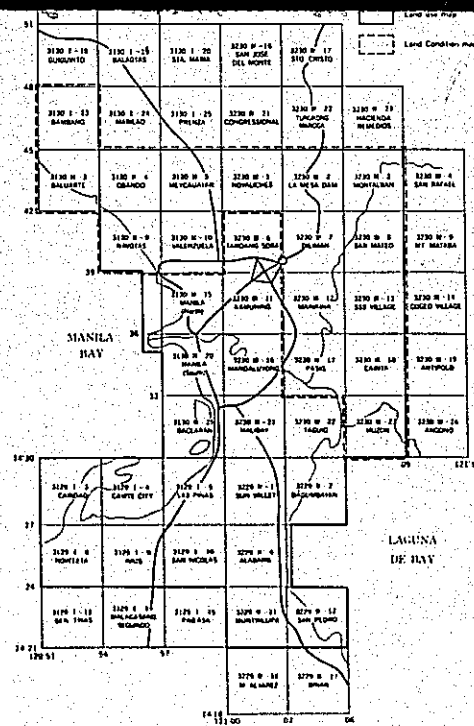
5. Criteria for Representation on the Land Use Map

The criteria for representing the land use classification on the 1:10,000 land use map are as follows:

- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm×3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm×1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm×5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
 - Commercial and Residential,
 - Business and Commercial,
 - Industrial and Residential,
 - Business and Residential
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
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- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

5-7 Printing was conducted with 7 color separation plates (red, orange, blue, yellow, green, brown and black) and their combinations to make the land use patterns easily identifiable.

Residential (Multi-story Housing, Residential, Temporary Housing, Mixed Commercial-Residential),	Land Use Boundary:	Red
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Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:		Green
Agricultural Land:		Yellow-brown
Water Related:		Blue
Base Map and Annotation:		Black



INFORMATION AND USAGE OF THE LAND USE MAP

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(see Index Map)

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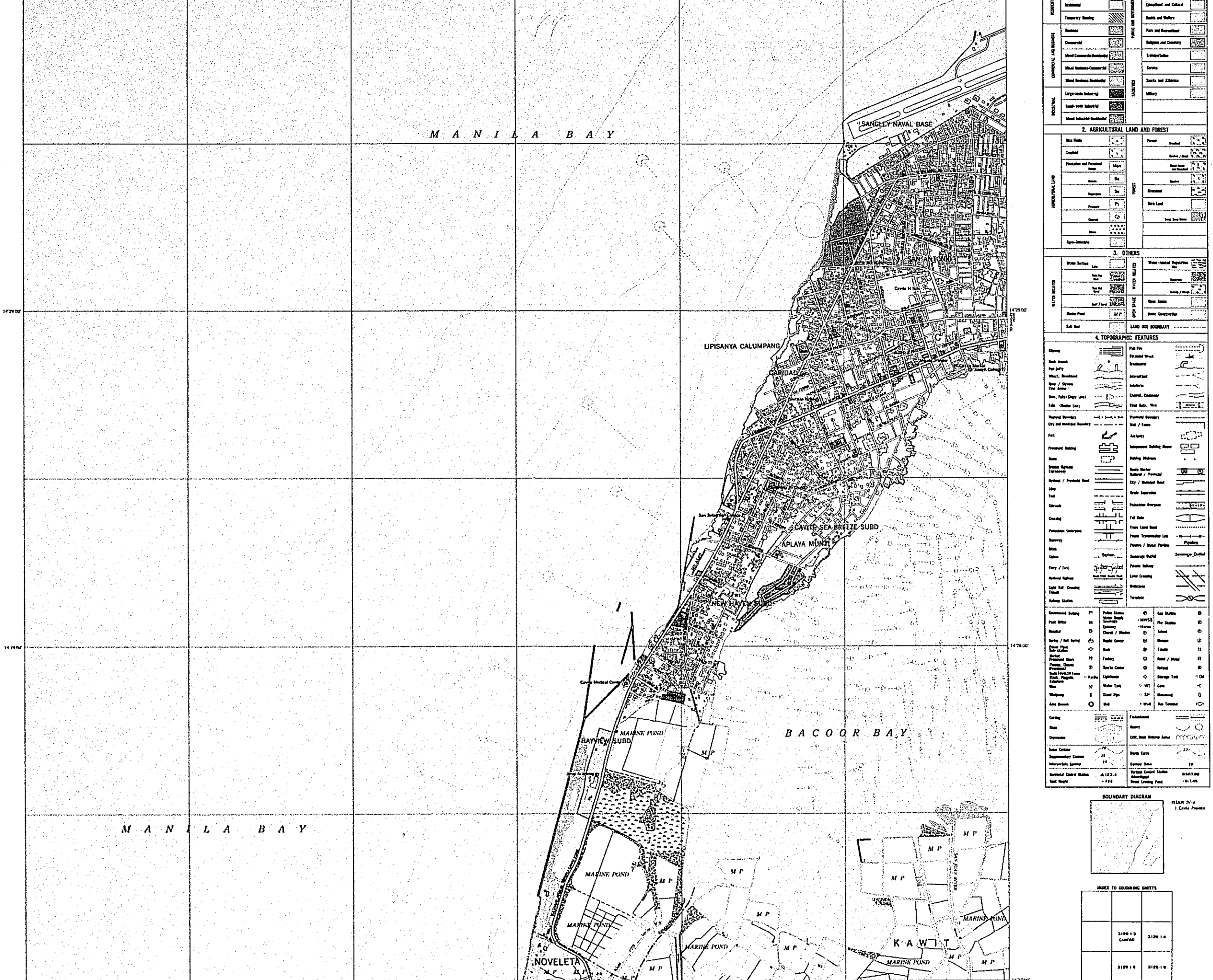
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 - Industrial and Residential,
 - Business and Residential
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Public and Government (Health and Welfare, Religious and Cemetery, Park and Recreational), Forest:	Green
Agricultural Land:	Yellow-brown
Water Related:	Blue
Base-Map and Annotation:	Black

M A N I L A B A Y

M A N I L A B A Y



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	Residential	[Symbol]	Education and Cultural
[Symbol]	Temporary Building	[Symbol]	Health and Welfare
[Symbol]	Business	[Symbol]	Park and Recreational
[Symbol]	Commercial	[Symbol]	Religious and Cemetery
[Symbol]	Mixed Commercial/Residential	[Symbol]	Transportation
[Symbol]	Mixed Business/Commercial	[Symbol]	Service
[Symbol]	Mixed Business/Residential	[Symbol]	Scenic and Esthetic
[Symbol]	Large-scale Industry	[Symbol]	Utility
[Symbol]	Small-scale Industry		
[Symbol]	Mixed Industrial/Residential		

2. AGRICULTURAL LAND AND FOREST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	Wet Paddy	[Symbol]	Forest
[Symbol]	Low Paddy	[Symbol]	Shrub
[Symbol]	High Paddy	[Symbol]	Open Area
[Symbol]	Provisional Forest	[Symbol]	Barren Land
[Symbol]	Open	[Symbol]	Barren Land
[Symbol]	Barren	[Symbol]	Barren Land
[Symbol]	Barren	[Symbol]	Barren Land
[Symbol]	Barren	[Symbol]	Barren Land
[Symbol]	Barren	[Symbol]	Barren Land
[Symbol]	Barren	[Symbol]	Barren Land

3. OTHERS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	Water Surface	[Symbol]	Water-related Vegetation
[Symbol]	Swamp	[Symbol]	Swamp
[Symbol]	Swamp	[Symbol]	Swamp
[Symbol]	Swamp	[Symbol]	Swamp
[Symbol]	Swamp	[Symbol]	Swamp
[Symbol]	Swamp	[Symbol]	Swamp
[Symbol]	Swamp	[Symbol]	Swamp

4. TOPOGRAPHIC FEATURES			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	Shoreline	[Symbol]	Highway
[Symbol]	Shoreline	[Symbol]	Highway
[Symbol]	Shoreline	[Symbol]	Highway
[Symbol]	Shoreline	[Symbol]	Highway
[Symbol]	Shoreline	[Symbol]	Highway
[Symbol]	Shoreline	[Symbol]	Highway
[Symbol]	Shoreline	[Symbol]	Highway
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[Symbol]	Shoreline	[Symbol]	Highway
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[Symbol]	Shoreline	[Symbol]	Highway

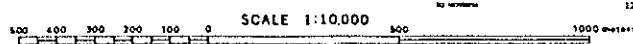
Government Building	Police Station	Gas Station
Post Office	Water Supply	Fire Station
Market	Library	Bar
Church / Mosque	Health Center	Museum
Spring / Well	Bank	Temple
Power Plant	Post Office	Shrine / Tomb
Market	Police Station	Relay
Provincial Office	Police Station	Storage Tank
Police Station	Police Station	Cave
Police Station	Police Station	Well
Police Station	Police Station	Well

Coring	Embankment
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay
Dike	Bay

BOUNDARY DIAGRAM



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	3129-1-2	3129-1-4	
	CARIDAD		
	3129-1-4	3129-1-6	



UNIVERSAL TRANSVERSE MERCATOR PROJECTION
 ZONE 51 CLARKE SPHEROID 1866 LUZON DATUM
 VERTICAL DATUM: MSL FOR HEIGHTS MLLW FOR DEPTHS
 CONTOUR INTERVAL 4 METERS

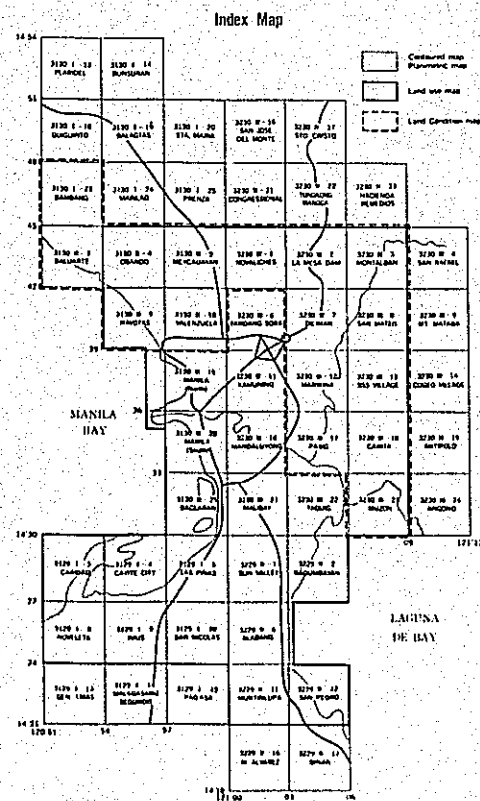
CARIDAD
 Sheet No. 3129-I-3



This map was produced under a cooperative arrangement between the Government of the Republic of the Philippines and the Government of Japan.
 Base Map: Aerial Photo 1955-1958
 Aerial Photography: 1952 & 1958
 Field observations by OCSA in 1956-1957
 Field observations by OCSA in 1959-1960
 Digitized by National Mapping and Research Institute (NMI) in 2011
 Digitized by National Mapping and Research Institute (NMI) in 2011

METRO MANILA LAND USE MAP
SCALE 1 : 10,000

**INFORMATION AND USAGE OF
THE LAND USE MAP**



5. Criteria for Representation on the Land Use Map

The criteria for representing the land use classification on the 1:10,000 land use map are as follows:

- 5-1 Where buildings or facilities occupy a common compound, the land use classification is represented by the main usage of the compound.
- 5-2 The minimum area for representation in the Built-up Areas is generally 3mm x 3mm on the maps. As for the Commercial and Mixed in the Built-up Areas, however, consideration is given to represent about 1.5mm x 1.5mm areas on the maps because of their important functions.
- 5-3 The minimum area considered for the representation of the Military, Agricultural Land, Forest and Water Related is generally 5mm x 5mm.
- 5-4 In 2-story buildings whose usages are both Residential and some other categories (Commercial, Industrial and Business), the classification is of the latter.
- 5-5 In buildings of 3-story or more whose usages are multipurpose, the classification is Mixed and falls under one of the following four categories according to the main usage of the buildings:
 - Commercial and Residential.
 - Business and Commercial.
 - Industrial and Residential.
 - Business and Residential.
- 5-6 The land use boundaries are represented by red colored lines. In case these boundary lines coincide with roads, railways, rivers, etc., the latter prevail.

REPUBLIC OF THE PHILIPPINES

2. Utilization of Land Use Map

This land use map is prepared using the 1:10,000 contoured map as the base on which the existing land use patterns are printed in 7 colors.

It is possible to recognize the existing land use together with various features (roads, railways, buildings, contour lines, coastal lines, annotations and others) shown on the base map.

It is expected that this land use map will be utilized as follows:

- 2-1 Administrative organizations can use this map for planning the re-development of built-up areas, development of suburban areas, improvement of transportation systems, housing development, disaster prevention, etc.
- 2-2 Survey and research organizations (universities, institutes, etc.) can use it for academic researches on geography, regional planning, civil engineering, etc.
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3. Classification of Land Use

The land use is classified into the following three major categories:

- Built-up Area.
- Agricultural Land and Forest
- Others

These are then divided into 33 sub-classifications.

- 3-1 The category "Built-up Area" is classified into Residential, Commercial and Business, Industrial, Public and Government, Facilities, etc. on the basis of the main usage of the buildings.
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- 4-1 The classification of land use patterns was mainly carried out by the interpretation of the aerial photographs taken in 1982 and by field identification conducted in 1985.
- 4-2 As for the major changes of land use patterns brought about after

1. Background

To cope with many urban problems prevailing in the National Capital Region, the Philippine Government requested the Japanese Government in March 1984 for technical cooperation in the preparation of urban base maps, which represent the existing conditions of the Region in detail, as basic materials for the implementation of various public works as well as the establishment of diverse plans concerning disaster prevention, land use, urban redevelopment, etc.

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1-1 Outline of these maps is as follows:

Contoured map (Topographic map)	1 : 10,000	1,500sq (57 sheets)
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Land use map	1 : 10,000	823sq (33 sheets)
Land condition map	1 : 10,000	476sq (116 sheets)

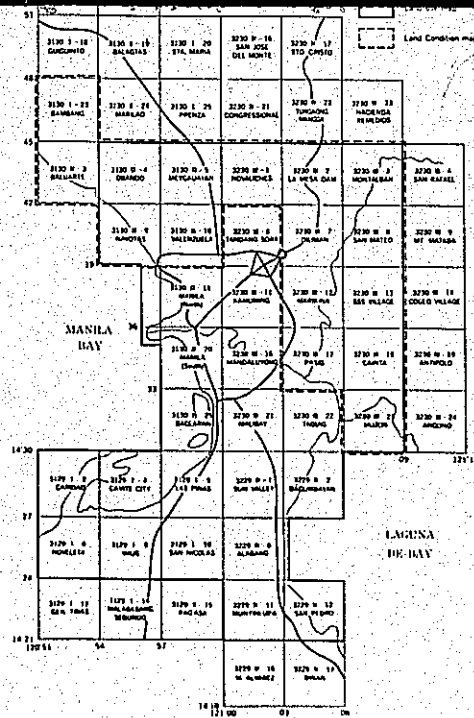
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Land Use Boundary:	Red
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Base Map and Annotation:	Black

INFORMATION AND USAGE OF THE LAND USE MAP



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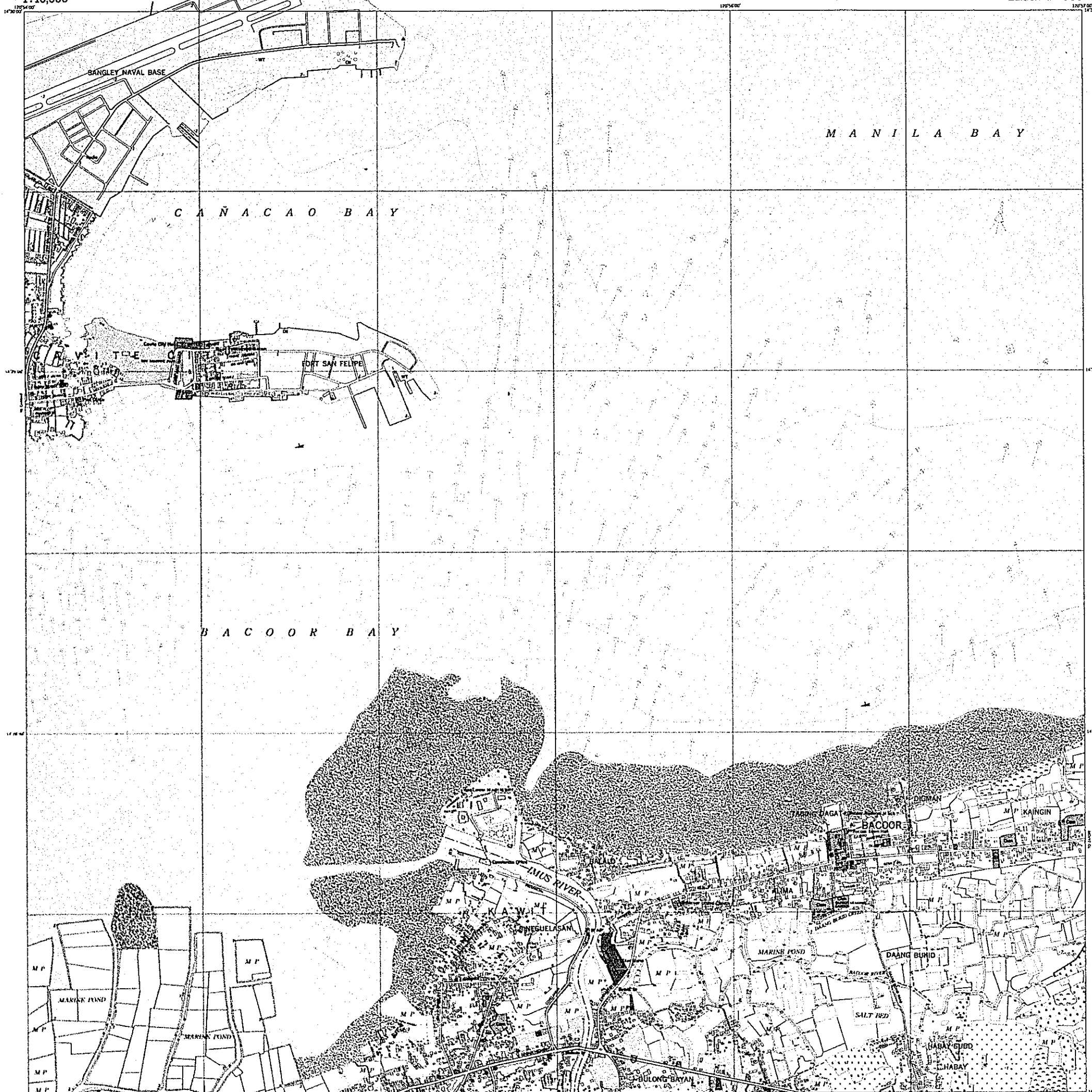
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LEGEND

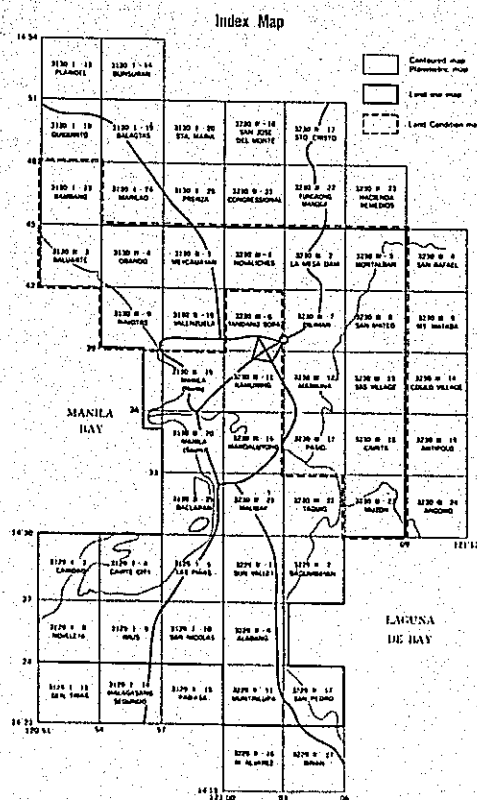
1. BUILT-UP AREA		2. AGRICULTURAL LAND AND FOREST	
RESIDENTIAL	Multi-story Housing	Governmental and Quasi-Public	
	Residential	Education and Cultural	
	Temporary Housing	Health and Welfare	
		Park and Recreation	
COMMERCIAL AND BUSINESS	Business	Police and Security	
	Commercial	Judicial and Consular	
	Mixed Commercial Residential	Transportation	
	Mixed Business Commercial	Service	
INDUSTRIAL	Mixed Business Residential	Sports and Amusements	
	Large-scale Industrial	Military	
	Small-scale Industrial		
	Mixed Industrial Residential		
3. OTHERS		Forest	Barren
Bare Ponds	Water		
AGRICULTURAL LAND	Cropland	Orchards	Barren / Sand
	Plantations and Forested Shrub	Plantations	Barren / Sand / Shrubland
	Rubber	Rubber	Rubber
	Coconut	Coconut	Coconut
	Peanut	Peanut	Open Land
	Sisal	Sisal	Barren / Sand / Shrub
	Other	Other	
	Agro-Industrial	Agro-Industrial	
WATER BODIES	Water Surface	Water-related Vegetation	
	Wetland	Wetland	
	Marine Pond	Marine Pond	
	Salt Pond	Salt Pond	
4. TOPOGRAPHIC FEATURES			
Shoreline	Shoreline	Shoreline	Shoreline
Rock Bank	Rock Bank	Rock Bank	Rock Bank
Pier/Jetty	Pier/Jetty	Pier/Jetty	Pier/Jetty
Water Development	Water Development	Water Development	Water Development
Canal / Stream	Canal / Stream	Canal / Stream	Canal / Stream
Flow Area	Flow Area	Flow Area	Flow Area
Canal / Drain Line	Canal / Drain Line	Canal / Drain Line	Canal / Drain Line
Lake / Reservoir Line	Lake / Reservoir Line	Lake / Reservoir Line	Lake / Reservoir Line
Regional Boundary	Regional Boundary	Regional Boundary	Regional Boundary
City and Municipal Boundary	City and Municipal Boundary	City and Municipal Boundary	City and Municipal Boundary
Fence	Fence	Fence	Fence
Precinct Boundary	Precinct Boundary	Precinct Boundary	Precinct Boundary
Road	Road	Road	Road
State Highway (Expressway)	State Highway (Expressway)	State Highway (Expressway)	State Highway (Expressway)
Suburban / Provincial Road	Suburban / Provincial Road	Suburban / Provincial Road	Suburban / Provincial Road
City	City	City	City
Town	Town	Town	Town
Suburb	Suburb	Suburb	Suburb
Drainage	Drainage	Drainage	Drainage
Powerline	Powerline	Powerline	Powerline
Telephone	Telephone	Telephone	Telephone
Light Rail Crossing	Light Rail Crossing	Light Rail Crossing	Light Rail Crossing
Railway Station	Railway Station	Railway Station	Railway Station
Government Building	Government Building	Government Building	Government Building
Post Office	Post Office	Post Office	Post Office
Hospital	Hospital	Hospital	Hospital
School / Day Care	School / Day Care	School / Day Care	School / Day Care
Religious	Religious	Religious	Religious
Market	Market	Market	Market
Industrial	Industrial	Industrial	Industrial
Warehouse	Warehouse	Warehouse	Warehouse
Power Plant	Power Plant	Power Plant	Power Plant
Water Tower	Water Tower	Water Tower	Water Tower
Windmill	Windmill	Windmill	Windmill
Landmark	Landmark	Landmark	Landmark
Sea Buoy	Sea Buoy	Sea Buoy	Sea Buoy
Grading	Grading	Grading	Grading
Sea	Sea	Sea	Sea
Suppression	Suppression	Suppression	Suppression
Inter-Corridor	Inter-Corridor	Inter-Corridor	Inter-Corridor
Supplementary Control	Supplementary Control	Supplementary Control	Supplementary Control
Intermediate Control	Intermediate Control	Intermediate Control	Intermediate Control
Horizontal Control Station	Horizontal Control Station	Horizontal Control Station	Horizontal Control Station
Vertical Control Station	Vertical Control Station	Vertical Control Station	Vertical Control Station
Level Height	Level Height	Level Height	Level Height

BOUNDARY DIAGRAM

INDEX TO ADJOINING SHEETS

		3129 0 25
3129 1 3	3129 1 4 CAVITE CITY	3129 1 5
3129 1 8	3129 1 9	3129 1 10

METRO MANILA LAND USE MAP
SCALE 1 : 10,000



INFORMATION AND USAGE OF
THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

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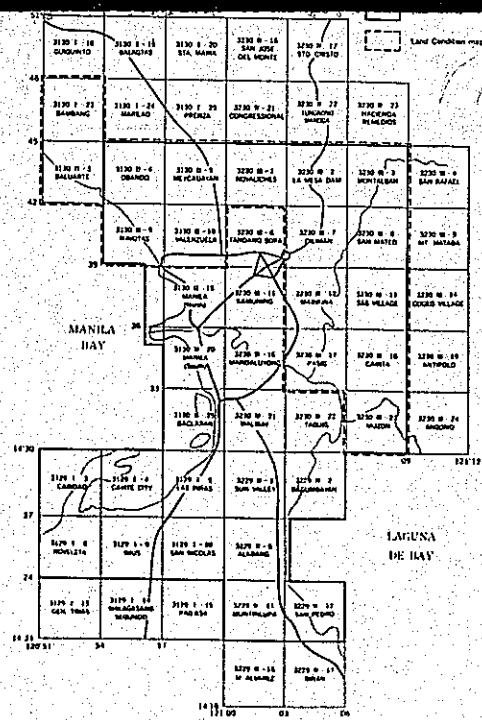
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INFORMATION AND USAGE OF THE LAND USE MAP

REPUBLIC OF THE PHILIPPINES

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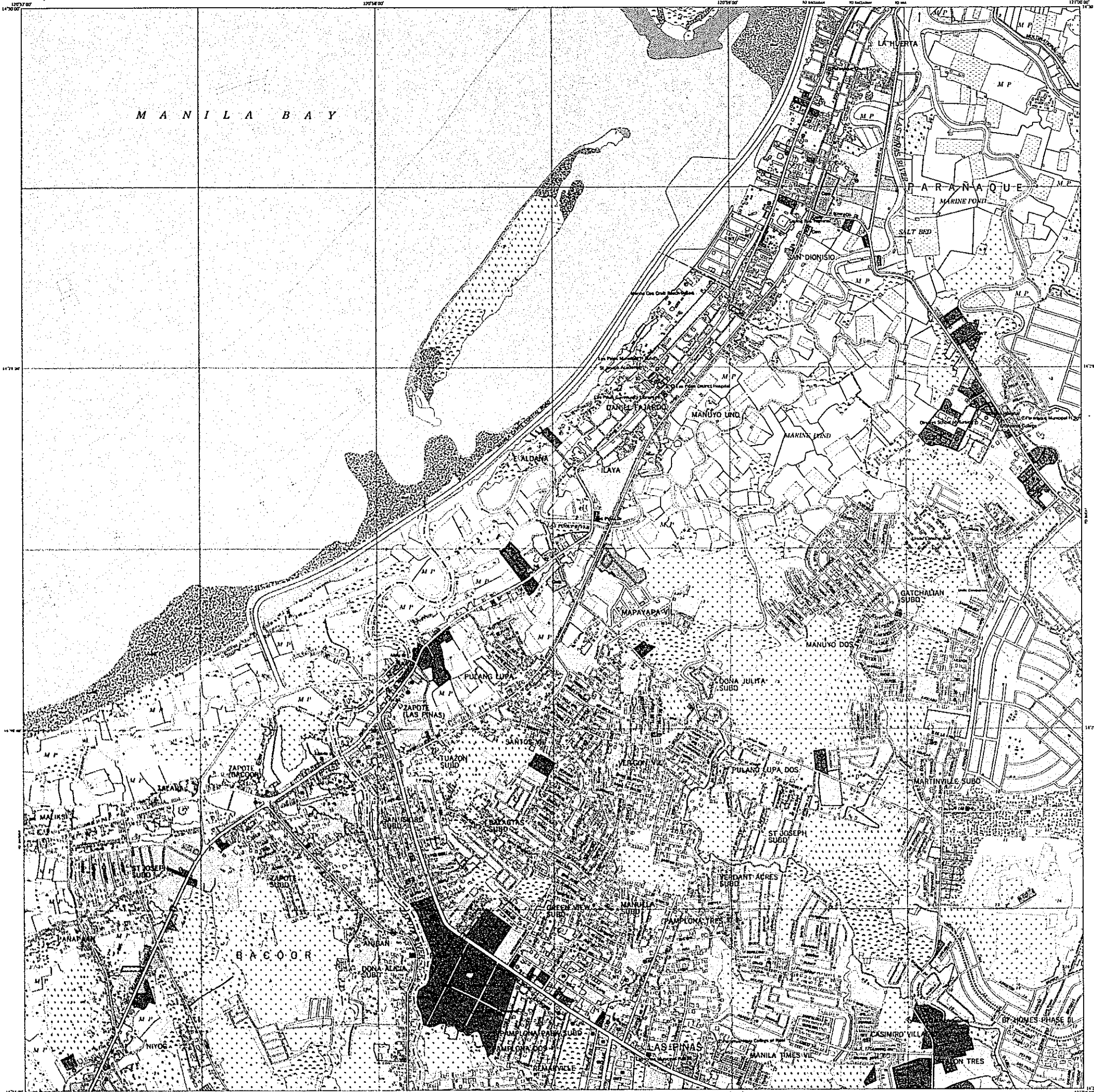
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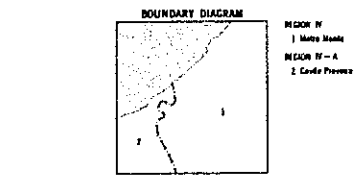
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Base Map and Annotation:	Black



1. BUILT-UP AREA		
NECESSITY	<p>Multi-story Housing</p> <p>Residential</p> <p>Temporary Housing</p> <p>Business</p> <p>Commercial</p> <p>Hotel/Resort/Hotel/Resort</p> <p>Hotel/Resort/Hotel/Resort</p> <p>Large-scale Industrial</p> <p>Small-scale Industrial</p> <p>Small Industrial/Residential</p>	<p>Governmental and Quasi-Public</p> <p>Educational and Cultural</p> <p>Health and Welfare</p> <p>Park and Recreational</p> <p>Religious and Charitable</p> <p>Transportation</p> <p>Service</p> <p>Office and Embassy</p> <p>Library</p>
2. AGRICULTURAL LAND AND FOREST		
AGRICULTURAL LAND	<p>Rice Paddy</p> <p>Cropland</p> <p>Pastureland and Rangeland</p> <p>Savanna</p> <p>Open</p> <p>Barren</p> <p>Agro-Industrial</p>	<p>Forest</p> <p>Water</p> <p>Swamp</p> <p>Marsh</p> <p>Wetland</p> <p>Barren Land</p> <p>Sea, Salt Pond</p>
3. OTHERS		
WATER RELATED	<p>Water Surface</p> <p>Wetland</p> <p>Open Space</p> <p>Shoreline</p> <p>Sea Bed</p>	<p>Water-related Vegetation</p> <p>Wetland</p> <p>Open Space</p> <p>Sea Bed</p> <p>Water Construction</p>
LAND USE BOUNDARY		

4. TOPOGRAPHIC FEATURES		
<p>Springs</p> <p>Rock Escarp</p> <p>Pier/Getty</p> <p>Wharf, Breakwater</p> <p>Harb / Quays</p> <p>Sea Wall / Dike / Causeway</p> <p>Canal / Drainage Line</p> <p>Lake / Dam / Dam</p> <p>Highway / Railway</p> <p>City and Municipal Boundary</p> <p>Fert</p> <p>Prominent Building</p> <p>Spire</p> <p>Digital Highway</p> <p>Telegraph</p> <p>Industrial / Prominent Building</p> <p>Ship</p> <p>Staircase</p> <p>Canal</p> <p>Prominent Mountain</p> <p>Highway</p> <p>Rail</p> <p>Ferry / Boat</p> <p>Water Tower</p> <p>Lighthouse</p> <p>Light Rail Crossing</p> <p>Trench</p> <p>Railway Station</p>	<p>Field / Open</p> <p>Scattered Wood</p> <p>Waterway</p> <p>Navigation</p> <p>Wetlands</p> <p>Channel, Causeway</p> <p>Pool, Lake, Wet</p> <p>Internal Boundary</p> <p>City / Municipal Boundary</p> <p>Artillery</p> <p>Industrial Building</p> <p>Building</p> <p>Water Tower</p> <p>Industrial / Prominent</p> <p>City / Municipal Boundary</p> <p>Waterway</p> <p>Publications</p> <p>Tall Spire</p> <p>Tree Line</p> <p>Tower Transmitter</p> <p>Public / Water</p> <p>Sanitary Canal</p> <p>Waterway</p> <p>Level Crossing</p> <p>Waterway</p> <p>Trench</p>	<p>Pit Station</p> <p>Fire Station</p> <p>Light</p> <p>Water</p> <p>Water / Boat</p> <p>Water / Boat</p> <p>Water / Boat</p> <p>Water / Boat</p> <p>Water / Boat</p> <p>Water / Boat</p> <p>Water / Boat</p> <p>Water / Boat</p> <p>Water / Boat</p>

Government Building	Public Station	Bus Station	City Station
Post Office	Water Supply	Water Supply	Water Supply
Market	Drainage	Drainage	Drainage
Market / Bus Station	Public Station	Public Station	Public Station
Public Station	Public Station	Public Station	Public Station
Public Station	Public Station	Public Station	Public Station
Public Station	Public Station	Public Station	Public Station
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Public Station	Public Station	Public Station	Public Station
Public Station	Public Station	Public Station	Public Station



INDEX TO ADJOINING SHEETS			
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This map was prepared under a cooperative understanding between the Department of the Interior and the Republic of the Philippines and the

SCALE 1:10,000
0 100 200 300 400 500 600 700 800 900 1000 meters

