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DIRECTORATE GENERAL OF CIPTA KARYA
MINISTRY OF PUBLIC WORKS
THE REPUBLIC OF INDONESIA

URBAN DEVELOPMENT PLANNING STUDY
ON
GERBANGKERTOSUSILA REGION
(SURABAYA METROPOLITAN AREA)

FINAL REPORT

March 1983

JAPAN INTERNATIONAL COOPERATION AGENCY

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PREFACE

In response to the request of the Government of the Republic of Indonesia, the Government of Japan decided to conduct an Urban Development Planning Study on GERBANGKERTOSUSILA Region (Surabaya Metropolitan Area) and entrusted it to the Japan International Cooperation Agency (JICA). The JICA sent to Indonesia a survey team headed by Mr. Hikoji Iwai, Director of Urban Traffic Investigation Section, City Bureau, Ministry of Construction, from May 11 to May 22, 1981.

The team had discussions with the officials concerned of the Directorate General of CIPTA KARYA, the Government of Indonesia, over the Planning and conducted a field survey. After the team returned to Japan, further studies were made and the present report has been prepared.

I hope that this report will serve for the socio-economic development of the Region and contribute to the promotion of friendly relations between our two countries.

I wish to express my deep appreciation to the officials concerned of the Government of the Republic of Indonesia for their close cooperation extended to the team.

March 1983



Keisuke Arita
President

Japan International Cooperation Agency
(JICA)

**URBAN DEVELOPMENT PLANNING STUDY
ON GERBANGKERTOSUSILA (SURABAYA METROPOLITAN AREA)**

ACKNOWLEDGEMENT

This Final Report has been prepared, on schedule, at the completion of the JICA Study Team's sixteen months work, nine months of which was spent in Indonesia and seven months in Japan.

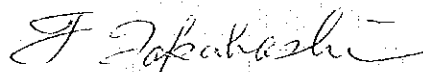
The structure plan of Surabaya Metropolitan Area, the short term and the longer term project programmes are recommended by the Team so as to present a complete development strategy.

It is expected that this report and recommendations shall serve as a reference for the preparation of detailed plans and in the development of infrastructure for the benefit of the area.

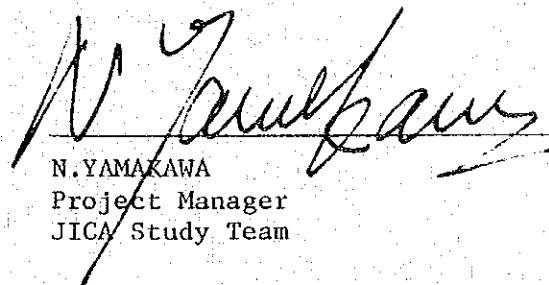
The Study Team cordially expresses hearty appreciation for the cooperation extended to us by the various Government Agencies and private companies in Indonesia.

In particular we wish to record our deep appreciation for the assistance and cooperation of the Directorate of City and Regional Planning, Cipta Karya and of the counterpart staff led by the Project Officer, Mr. Handijono Sasono.

Yours Faithfully,

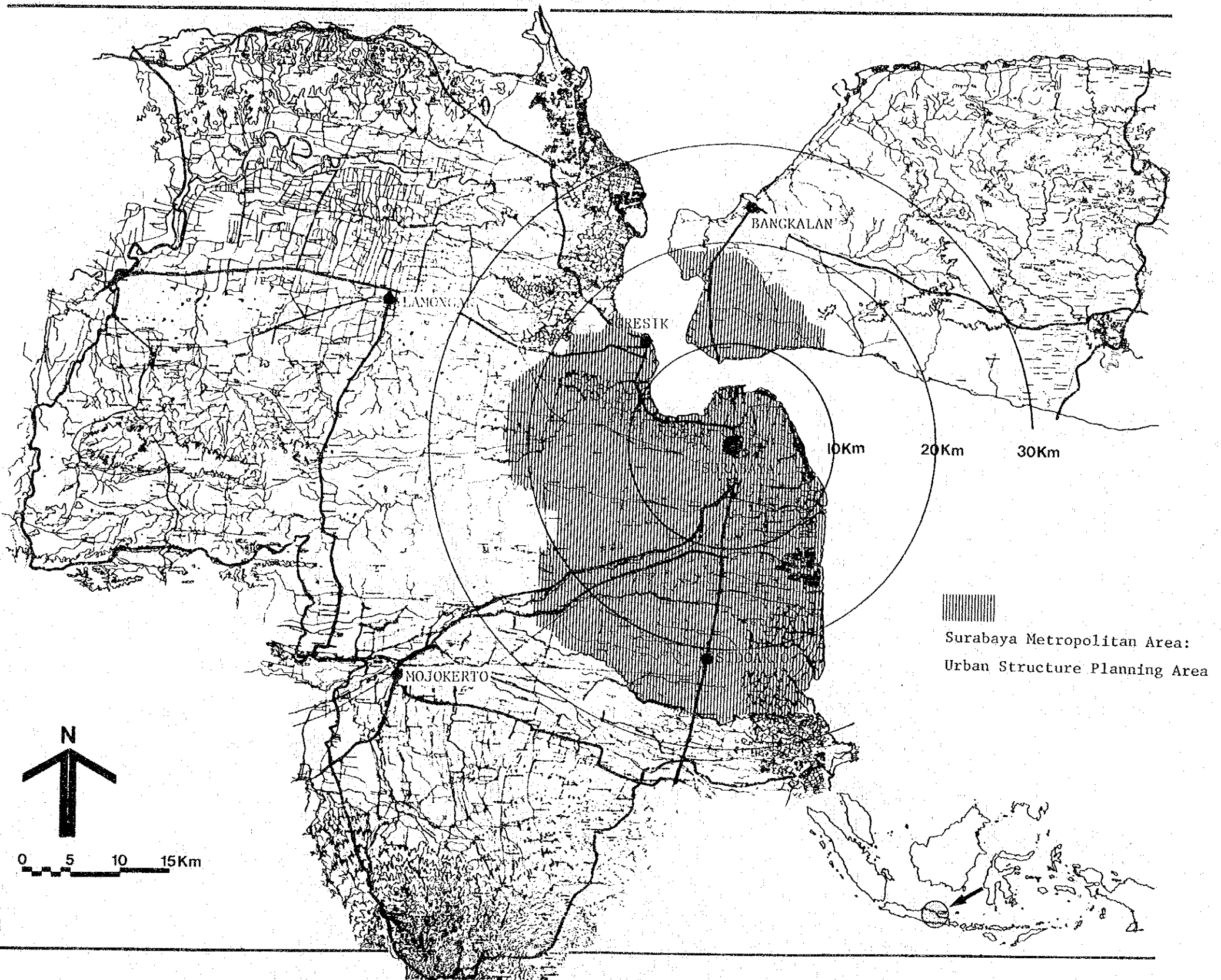


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URBAN DEVELOPMENT PLANNING STUDY
ON GERBANGKERTOSUSILA REGION (SURABAYA METROPOLITAN AREA)



PROJECT AREA MAP

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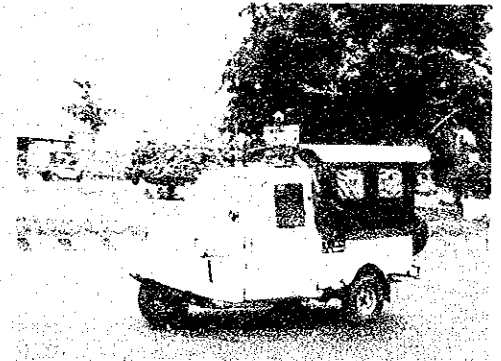
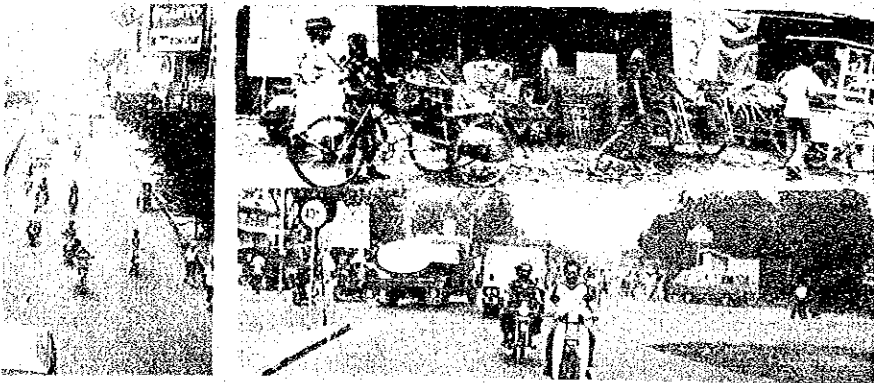
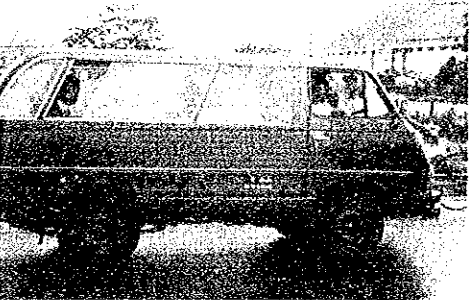
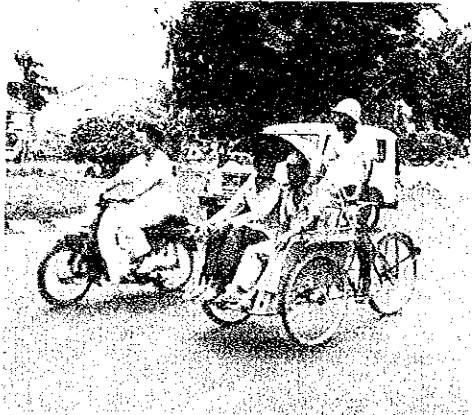
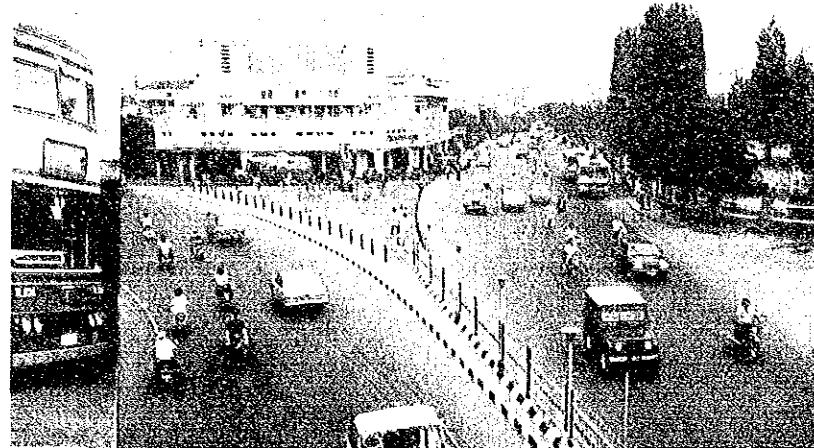
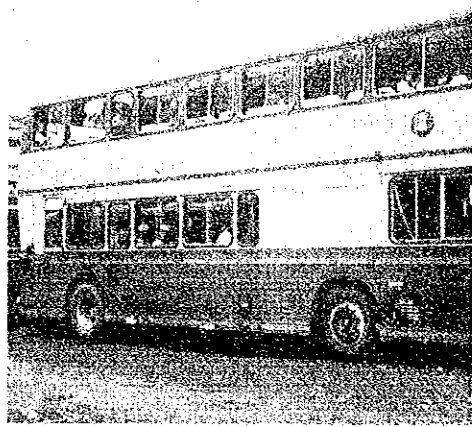
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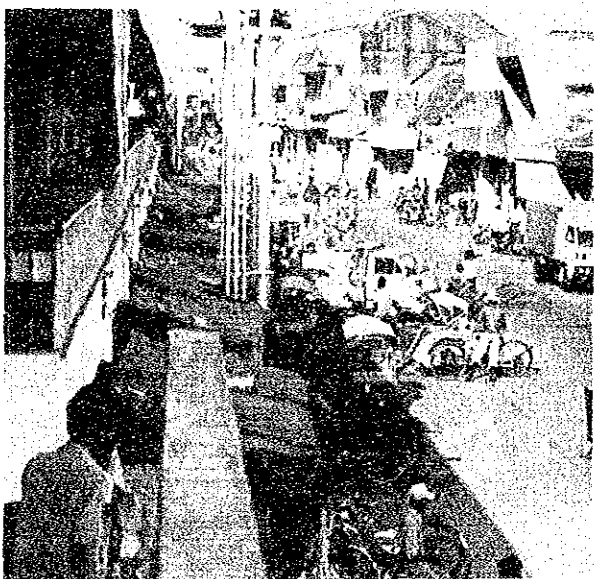
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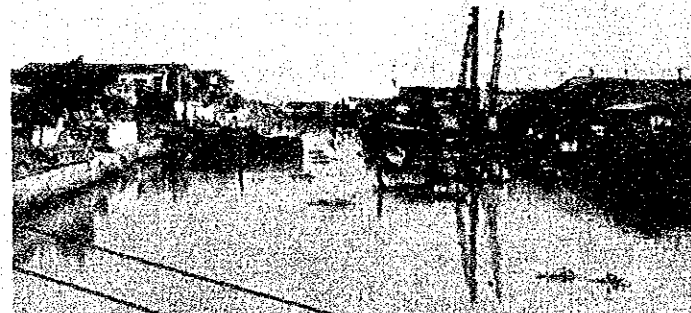
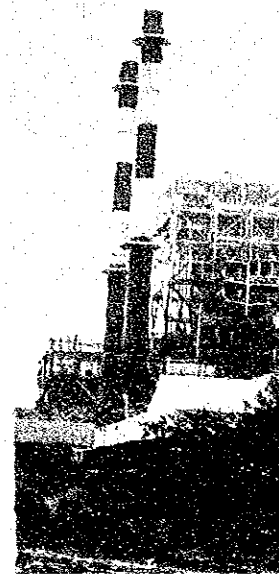
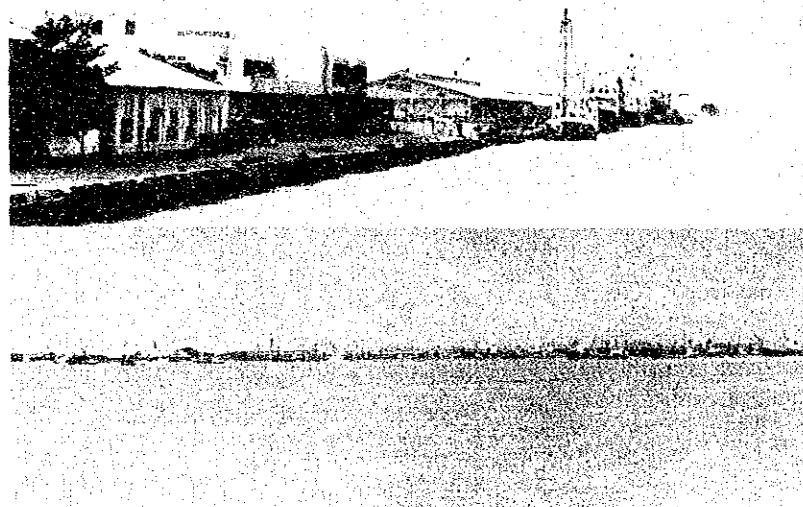
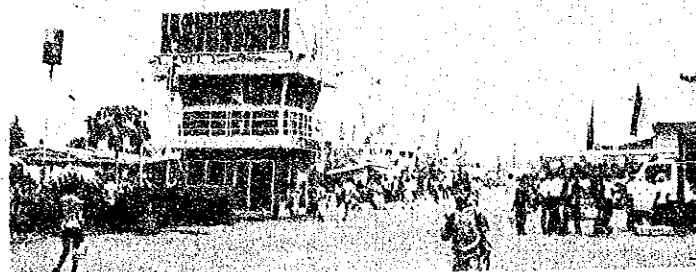
20.2.3 PARK TOWN HOUSING COMPLEX 316



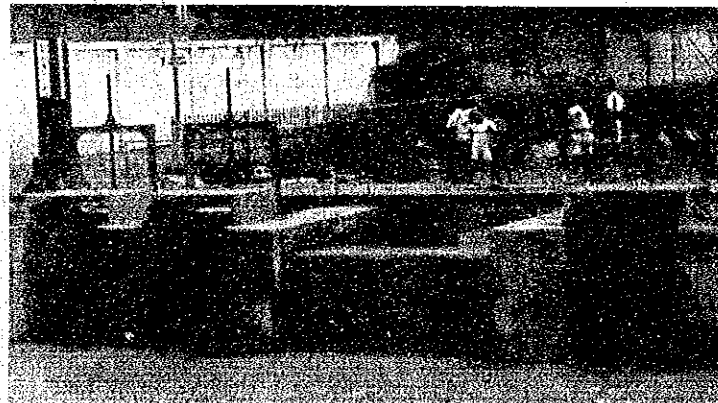
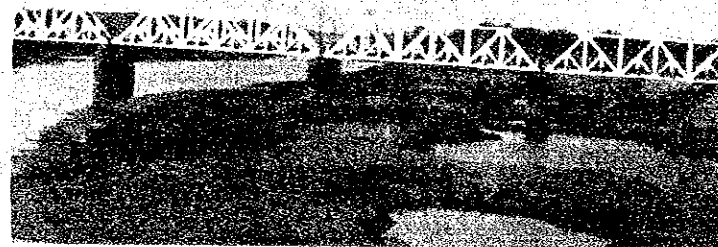
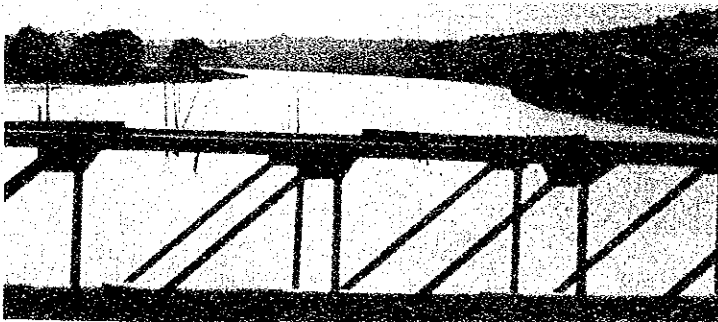
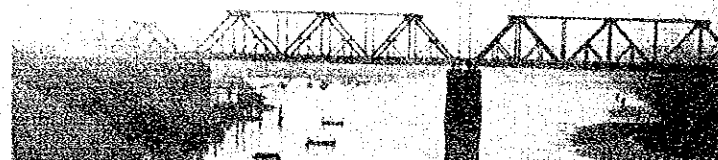
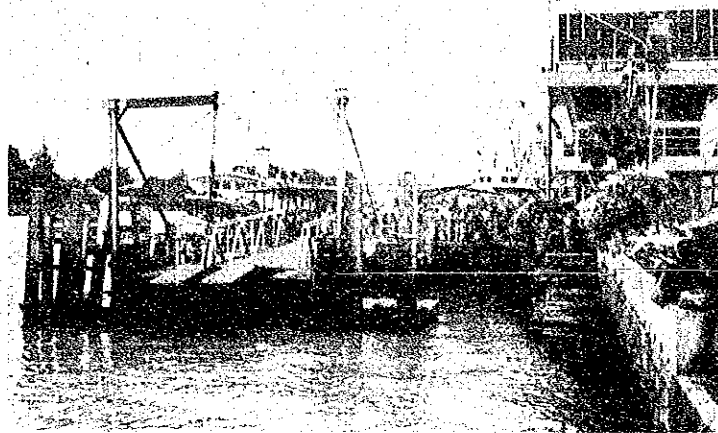
VARIOUS TRANSPORTATION MODES SUPPORTING DAILY ACTIVITIES



COMMERCIAL/ACTIVITY CENTRES

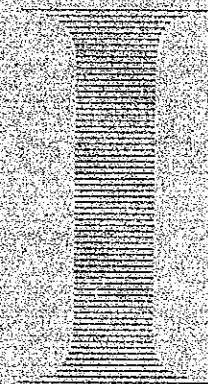


ACTIVE PORTS AND INDUSTRIES



RIVERS ARE IMPORTANT RESOURCES FOR LIVES

PART



BACKGROUND OF THE STUDY

CHAPTER

1

SCOPE AND OBJECTIVES
OF THE STUDY

1.1 STUDY OBJECTIVES AND BACKGROUND

1.1.1 STUDY OBJECTIVES

Surabaya Metropolitan Area plays a significant role in the development of a region which includes the provinces of East Java, as well as the eastern part of Indonesia. However, although the second largest city in Indonesia, Surabaya is faced with many serious development problems. In order to fulfill its function in the development of the region, it is essential that Surabaya Metropolitan Area is subject to suitable directives to govern development within the area.

In recognition of this need the Government of the Republic of Indonesia (the "Government") decided that it was necessary to conduct an Urban Development Planning Study centring on the Surabaya Metropolitan Area (SMA), but based on an overall Planning Study of the GERBANGKERTOSUSILA Region (GKS Region).

The objectives of the Study are as follows:

- to formulate a development strategy and a development structure plan up to the year 2000 for the Surabaya Metropolitan Area within an overall plan for the GKS Region.
- to perform technology transfer to Indonesian counterparts during the course of the Study.

1.1.2 STUDY BACKGROUND

PREMISES FOR URBAN STRUCTURE PLANNING

The Study is based on premises that the structure plan for the development of SMA, should be established from an urban planning point of view, in order to guide the various development activities into an appropriate regional formation within the GKS Region.

This Study therefore is required to prepare the structure plan for SMA, which was defined as Surabaya City and its surrounding area including urban centres in GKS Region strongly related to Surabaya City. The first Inter-department Steering Committee held in December 1981, confirmed that the elaboration of SMA development plan into development strategy which will cover long-term as well as short-term is regarded as Phase I of the development study of the whole GKS Region. The Phase II and the following phases of the Study will not be covered under this present Scope of Work and will be decided later by the Government.

The Phase II study on the peripheral areas such as Mojokerto, Lamongan, and Bangkalan Influence areas should be performed from a regional and rural planning viewpoint, considering the results of this Phase-I Study.

THE NATIONAL CONTEXT

The national context is the basis of the study as follows:

- Promotion of harmony between sectoral and regional development efforts;
- Balance growth among the regions of the country;
- Development of the administrative capacity of the regions to enable full participation in development effort; and
- The total development of Indonesia as an economic unit.

These objectives should be interpreted in the context of National goals such as unity, social and economic development and equitable distribution of the benefit of development.

East Java with such a dense population, from the National point of view, stands slightly behind in term of per capita income. Per capita of GRP of East Java was 87% of the National average. It challenges the East Java Provincial Government to speed up its pace

of development. Among other things, intensified investment resource allocation will give income distribution at the National level.

As a relatively low income region, East Java needs to have particular effort for economic development.

Also, the human resources which are more than abundant in quantity may have to be utilized elsewhere for a more balanced growth of all regions.

Standing on the recognition of this development context, the Study Team concentrated on finding a solution to the problems of establishing a new dual system with organic order in the Study Area; e.g. one is the system of effective industrialization to grade up the socio-economic activity. The other is the system of efficient distribution of goods and benefit in order to establish the harmonious and equal growth among the region of the country.

Furthermore, the Study Team considers that a major policy and development programme is indispensable and that because of the function of the Study Area as a leading growth pole in East Java the achievement of the goal will be impossible without intensive investment being injected into the Study Area.

In the sense of this meaning, the plan proposed in this Study is challenging and is made in expectation of aggressive promotion by the Government.

1.2 SCOPE OF THE STUDY

1.2.1 METHODOLOGY OF THE STUDY

The Study was executed in accordance with the "Scope of Work" contracted between the Directorate General Cipta Karya, Ministry of Public Works and the Japan International Cooperation Agency. The Scope of Work is shown in Appendix of this report.

The process of the Study, preparing the structure plan for the Surabaya Metropolitan Area, is shown in Fig. 1.2.1.

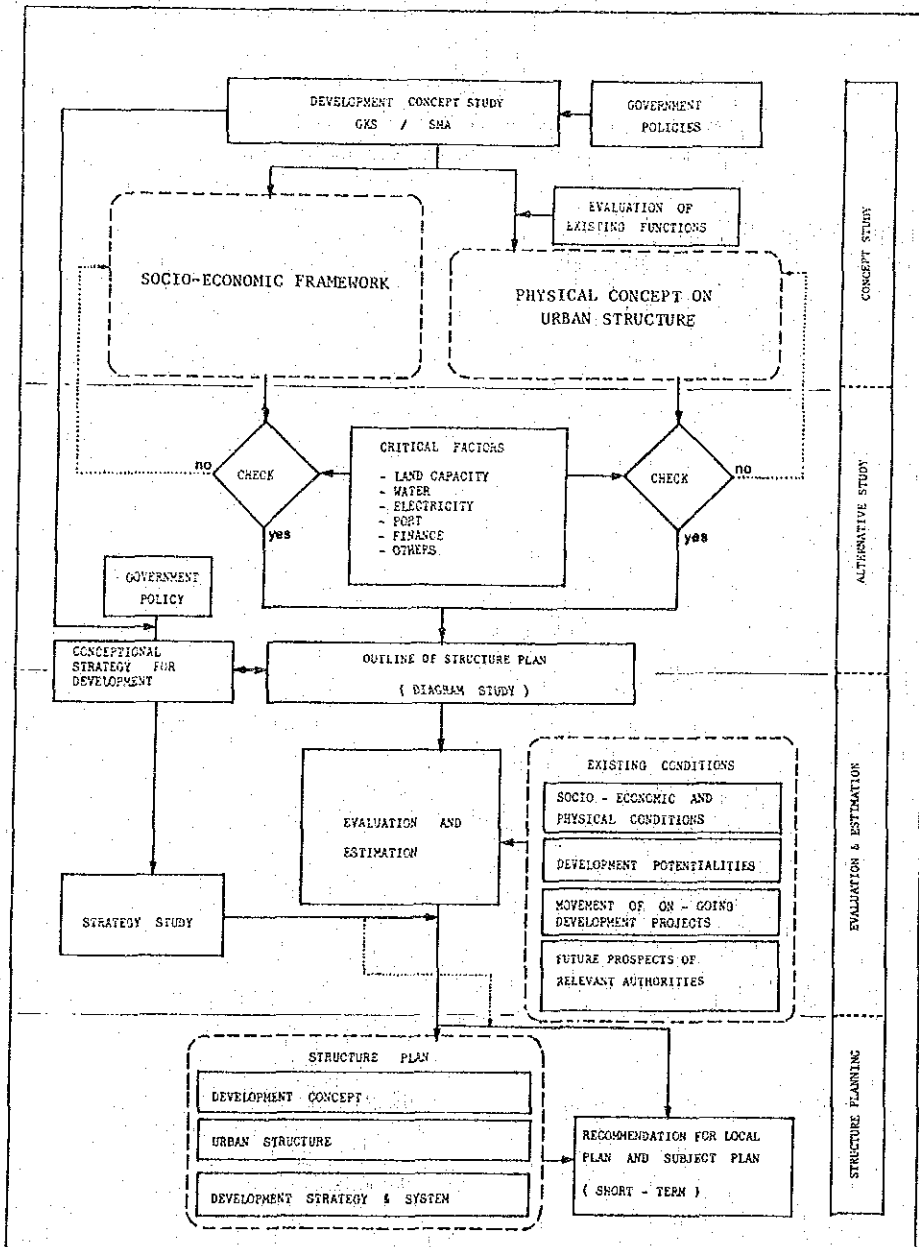


Fig. 1.2.1 WORKING FLOW CHART

In order to comprehend the need of the Study and to clearly identify the actual conditions, the Study Team carried out several surveys in GKS Region:

- Site Reconnaissance
- Landuse Survey
- Facilities Survey (Public Services and Urban Utilities, etc.)
- Traffic Survey
- Factories Survey (Questionnaire)
- Wholesalers and Trading Companies Survey (Questionnaire)
- Truck Forwarding Companies, and Bus Companies Survey (Questionnaire)
- Discussions with and Data Collection from Relevant Government and Local Authorities

Amongst these, the Traffic Survey was the largest with 8 kinds of survey:

- O-D survey at cordon lines, Airport, Sea Port and Ferry Terminal
- O-D survey of Trucks at weighbridges and Truck Terminals
- Home Interview surveys (including car owners)
- Traffic Count surveys
- O-D surveys of passengers at hotels, offices, railway stations, bus stops and terminals, markets, and terminal of smaller public transport vehicles such as Colt, Bemo, etc.
- Vehicle running speed survey
- Parking survey
- Bus occupancy and trip length survey for intra-city and inter-city trips.

All of the survey results above are integrated in the plan proposed. Furthermore, this Study lies in the context of the national and regional plan as well as the local plans. In other words, the Structure Plan undertaken in this Report is situated as an intermediate between the National and Regional Development Policies and the local plans by the local autonomies.

In this sense, the existing plans and policies reflected in this Study were:

- Pelita III Basic Concept of Regional Development in Indonesia by the Ministry of Public Works
- Pelita III in East Java
- Master Plan, Surabaya 2000
- Urban Development Plans or Studies of each local government within the Study Area.

Moreover, major studies results for the existing development projects were referred:

- Gerbangkertosusila, General Planning Study
- Surabaya Area Transportation Study
- Kampung Improvement Programme
- Feasibility Study on Tg. Perak Port
- Urban Transport Terminals Study for Surabaya City
- Feasibility Studies on Surabaya-Malang Tollway and Surabaya-Gresik Tollway
- Preliminary Study on the Extension of Kali Surabaya River Improvement Project.
- Surabaya Water, Wastewater, Drainage and Solid Waste & Studies

Additionally, several studies for urban developments such as housing, cargo and market, major manufacturing factories, urban utilities, transport facilities and so on were considered during the course of this Study.

1.2.2 COMPOSITION OF REPORT

The results of the Study are reported and summarized in the Executive Summary, Main Report and supplementary Working Paper. The working papers were submitted in May 1982.

MAIN REPORT

The Study Results are reported according to the context in four parts:

– Part I, Background of the Plan (Chapters 1 to 5)

The various present conditions to be considered in the plan are integrated, and the urban development potential is evaluated from two aspects i.e. socio-economic and physical viewpoints.

– Part II, Regional Development Plan (Chapters 6 to 10)

The regional development concept in Gerbangkertosusila region (hereinafter called "GKS region"), with the socio-economic framework derived from the concepts and the recommended structure plan in GKS region are discussed.

Two main themes are developed. One is to define the extent of the Surabaya Metropolitan Area (hereinafter called "SMA"); the other is to assume the socio-economic framework in SMA as well as in GKS region.

– Part III, Structure Plan in Surabaya Metropolitan Area (Chapters 11 to 15)

The main results of the study are presented in this part.

The aims and objectives of the plan, the general function and structure and the sectoral development policies are studied so as to be integrated into the structure plan.

Through comprehensive considerations of these topics, the necessary projects and actions are established.

– Part IV, Implementation Programme (Chapters 16 to 20)

The necessary strategic, administrative and financial summaries to achieve the objectives of the Study are made in this Part. Furthermore, the preliminary studies and the development model plans for the actions contained in the structure plan are indicated by way of reference.

SUPPLEMENTARY WORKING PAPER

The working papers being prepared through the Study are as listed below:

Working Paper No. 1 – Traffic Surveys

Working Paper No. 2 – Traffic Survey Analysis and Results

Working Paper No. 3 – Other Surveys

Working Paper No. 4 – Rivers and Utilities

Working Paper No. 5 – Population and Economic Factors

Working Paper No. 6 – Study on Development Unit Model

