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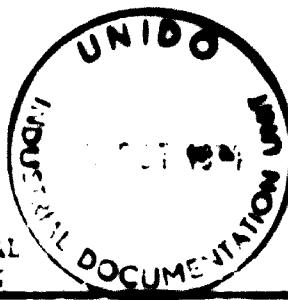
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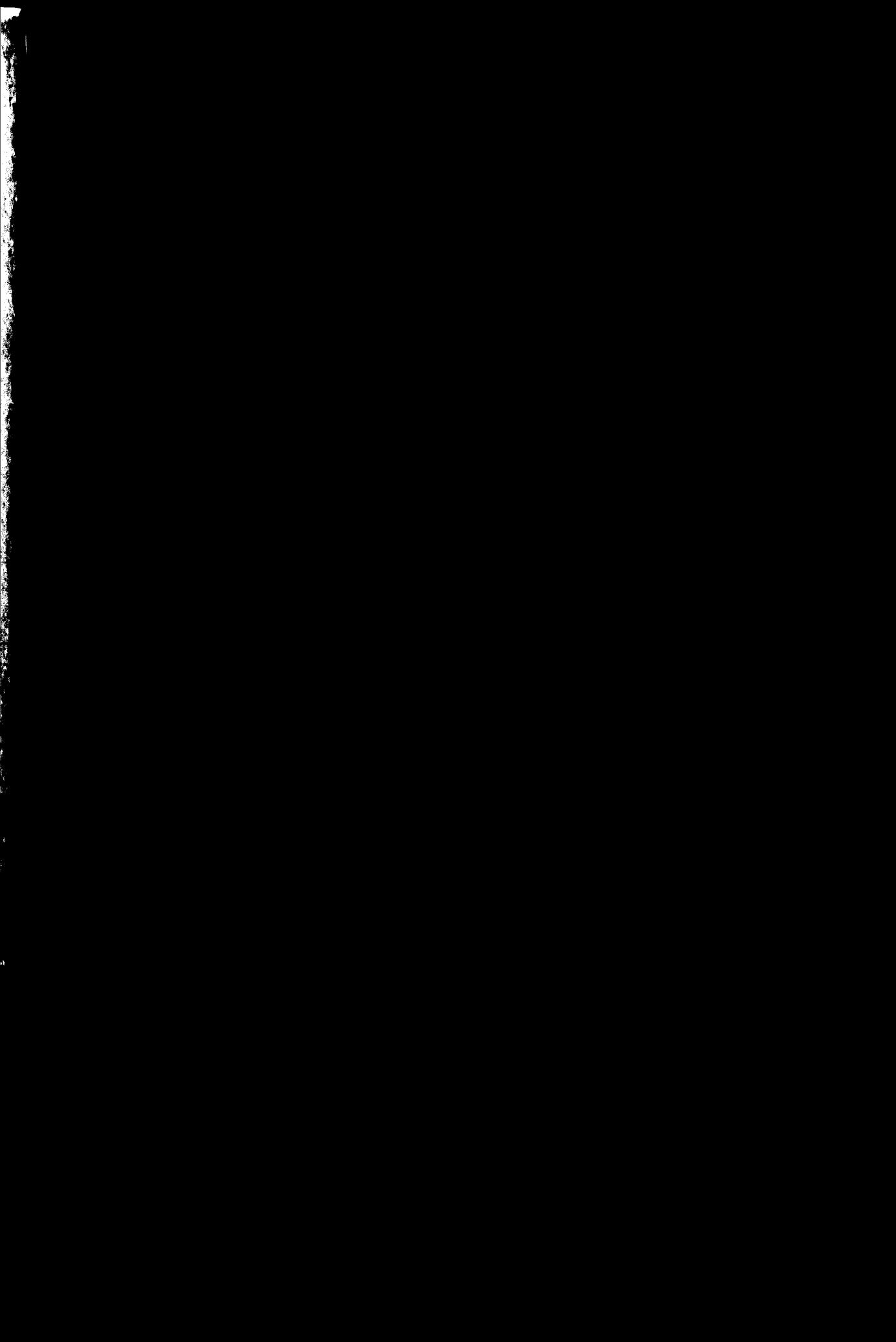
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**REPUBLIC OF KENYA
PRE-FEASIBILITY STUDY ON THE ESTABLISHMENT OF
AN INDUSTRIAL FREE ZONE**

BY

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Introduction

The Government of Kenya have been giving thought to the question of investigating the feasibility of an Industrial Free Zone for some time. Discussions on the subject began in 1972 with the joint project manager of UNIDO's project "Industrial Survey and Promotion Centre". During 1973, the project was further discussed in Vienna with Government officials, culminating in an official request dated 26 October 1973 from the Government.

In view of the difficulty of recruiting outside consultants for short periods, the Government approved the candidature of a UNIDO staff member to serve as an expert for one month, but requested that the mission be undertaken as soon as possible in 1974. The mission was carried out between March 3-22, 1974.

Sincere thanks are offered to the Project Managers of the Industrial Survey and Promotion Centre, Mr. E.C. Kotut and Mr. E.N. Espenhahn, together with Mr. N. Mwangi, and those UNIDO experts and their counterparts who assisted the expert.

Thanks are also extended to those Government officials, too numerous to mention by name, who gave their time and advice. Also to Mr. W. Millager, UNIDO Senior Industrial Development Field Adviser and Mr. O.V. Karsgaard, UNCTAD/GATT/ITC for their help and advice.

Conclusions

The Government of Kenya is giving further thought to the feasibility of establishing one or more industrial free zones, and at the conclusion of this mission the informal position was to consider, subject to availability of funds, two main courses of action.

1. Study Tours

To obtain further on the spot information the Government will consider requesting study tours for suitable candidates, to visit operating industrial free zones as a group. The objective will be to plan for further training for potential free zone managers, and to evaluate the costs and benefits of a zone, as well as to plan for the training at a later stage of a group of 5-10 selected, potential industrial free zone managers.

2. The Feasibility Study

The Government is considering the request for a full financial cost/benefit analysis and planning study. This would have two objectives. The first would be to examine the financial feasibility long term, and analyse the cost/benefit situation in such a way as to give clear indication to potential financing agencies on both feasibility and funds required.

Secondly, the study should plan in some detail simultaneously to cover such aspects as site selection, legislation, organisation of the Industrial Free Zone Authority (Board of Directors) and management.

3. Site

Potential sites scheduled as industrial areas exist in Nairobi and Mombasa. The Dandora area of Nairobi is recommended as the best site. In Mombasa, the Miritini area is recommended with reservations as it is not the nearest industrial site to available housing areas, airport, docks and oil refinery.

Since the main problems will be administrative and legislative at first, and the Government is located in Nairobi, it is recommended that costings are made for a zone in Nairobi at this stage.

The cost of rail or road transport from Mombasa will affect manufacturers product costs unfavourably, compared with production costs in a zone at Mombasa. However, some producers will use air-freight in and out, so costings are the same in either location.

Comparative costings of zone construction, including land purchase, should be drawn up for both locations.

II. GENERAL BACKGROUND

For the convenience of readers not familiar with the economy of Kenya, a brief summary is given below.

1. COUNTRY

The present population exceeds 12 million and has a high growth rate of 3.5 per cent.

It shares boundaries with Ethiopia, Somalia, Sudan, Tanzania and Uganda, and has an Indian Ocean coastline 250 miles long, with one commercial seaport at Mombasa.

Some of the best farming land in Africa is found at an altitude between 2,000 - 9,000 feet a.s.l. in Central Kenya, but more than half the country is arid lowland. There is a tropical belt along the coastline.

Nairobi, the capital, connected with Mombasa by a tarmac road (300 miles), is a very modern city and the commercial, industrial and administrative centre. Its population exceeds 500,000 making it the largest city in East and Central Africa. At an altitude of 5,500 feet a.s.l., it has a temperate climate, rarely exceeding 27°C.

Due to rapid growth since Independence in 1963, a policy of decentralization of industry is in force, to locate more industry away from Nairobi and Mombasa.

Mombasa, the second largest town (population 200,000), handles all the sea-borne traffic of Kenya, Uganda, Northern Tanzania, Ruanda, Eastern Zaire and Southern Sudan. One problem of Mombasa's expansion is that the investment required will benefit the other countries mentioned, taken together, more than Kenya itself. This argues for the provision of the required finance from international sources (see below under

There is already a good industrial base at Mombasa including a recently expanded oil refinery, a steel rolling mill, considerable textile, cement and food processing industry.

Other large towns are:

Kisumu - 105,000 - transport centre on Lake Victoria

Nakuru - 70,000 - farming centre - 160 km from Nairobi, 720 km from Mombasa

Thika - 30,000 - 42 km from Nairobi - fastest growing town in Kenya

Eldoret - 20,000 - halfway between Nairobi and Kampala, processing of agricultural products.

2. GOVERNMENT

Kenya became independent in 1963, and a Republic in 1964. Political stability has been a keynote since independence. The President is Head of State and Commander-in-Chief of the Kenya Armed Forces. He is normally elected at the General Election which follows the dissolution of Parliament every five years.

Parliament consists of a single chamber called the National Assembly, with 158 elected members. The Cabinet is appointed by the President from among the Members of Parliament.

In the Constitution of the Republic of Kenya, executive and legislative powers are so divided as to give effect to three main principles namely, that strong national leadership should exist, and be apparent to the people, that the President and his Cabinet should be collectively responsible to Parliament and that Parliament should be supreme.

3. INDUSTRIAL POLICY

The Kenya Government is committed to a mixed economy of public and private enterprise. In the manufacturing sector, heavy reliance is placed on private enterprise, including foreign investment. Joint ventures are particularly welcome. This policy can be considered positive and non-restrictive.

The Development Plan for 1974-1978 envisages an increase in employment of almost 50,000, and an investment increase of Ksh 150 million in machinery, buildings and equipment, mostly from private sources, with an emphasis on production for export. The manufacturing sector is thus expected to increase from 12.1 per cent of G.D.P (1972) to 14.3 per cent in 1978, with marketed value of gross output increasing by 81 per cent to Ksh 465.6 million in 1978.

Industry has grown by 9.1 per cent since 1968, the volume of output going up by 86 per cent. Workplaces employing over 5 people grew from 676 in 1963 to 1298 in 1971. Over 30 per cent of output comes from those employing over 50, which rose from 154 to 313 in the period, mostly agro industry.

Import substitution is nearing an end except for intermediate and capital goods, and the main growth point is considered to be export industry. This already includes oil refining, cement, textiles, glass, cables, pharmaceutical, chemical and metal goods.

4. INVESTMENT INCENTIVES

The Foreign Investment Protection Act encourages projects which either:

- (a) earn or save foreign exchange
- (b) increase technical knowledge
- (c) lead to an increase in economic wealth and social stability by raising national income and promoting diversification.

Approved projects are eligible for a Certificate of Approved Enterprise, which give the foreign investor privileges in respect of

a) a) repatriation of

- 1) the profits, after taxation, of his investment
- 2) the approved proportion of the net proceeds of the sale of all or any part of the approved enterprise
- 3) the principal and interest of any loan specified in the Certificate

b) compulsory acquisition

This matter is dealt with in Section 74 of the Constitution of Kenya, and briefly provides protection or payment of compensation, with direct access to the High Court in matters of dispute.

(While this arrangement seems perfectly adequate for normal purposes, it may be necessary to guarantee complete protection of investments in an Industrial Free Zone, in order to maximize interest amongst potential investors. This may need an alteration to Section 75, which would require, by Article 47, the vote of "not less than 65 per cent of all the Members of the Assembly".

5. CUSTOMS DUTIES

Up to 1974, refunds were made in certain circumstances, largely to encourage local industry and exporters, but this will be replaced by a 10 per cent export subsidy in future.

Where the final product is exported, total remission of duty is possible.

Plant and machinery for industrial development are almost all free of duty already.

6. INVESTMENT PROTECTION

Various governments, e.g. Canada, FRG, Japan, UK and USA offer fiscal incentives and investment protection to their nationals investing in Kenya. These include protection in cases of nationalization without adequate compensation, inability to repatriate capital and earnings, force majeure etc.

Kenya is a signatory to the IBRD Convention for the Settlement of Investment Disputes.

7. LOCAL CAPITAL PARTICIPATION

In addition to the usual finance sources, Kenya is well equipped with Government sponsored finance institutions namely

a) Industrial and Commercial Development Corporation (ICDC)

Established 20 years ago, ICDC is responsible to the Ministry of Commerce, and has as its main aim, the establishment of Africans in new ventures, industrial or commercial.

Full description of these institutions are given in the Government's Investment Guide so that only an outline is given here.

ICDC assists new ventures through participation in equity capital, or loan, or both, and is concerned to decentralize industry where possible.

It is also concerned with establishing new ventures in the public sector.

b) Industrial Development Bank Ltd. (IDB)

IDB avoids duplication of ICDC activities by concentrating on projects requiring investment of not less than £ 50,000, mainly medium and large-scale enterprises in agro-based industry, mining and engineering.

c) Development Finance Company of Kenya (DFCK)

DFCK, established 1963 is jointly owned by the Kenya Government (through ICDC), Commonwealth Development Corporation, Netherlands Overseas Finance Company and the German Development Corporation.

Its prime emphasis is placed on manufacturing and processing industry and hotels.

d) East African Development Bank

This is a Community Institution aimed mainly at balancing industrial development amongst the Partner States. Its funds are provided by the Partner States, and by international commercial banks. Over a five year period, 38.75 per cent of the banks resources are allocated to Tanzania, an equal amount to Uganda, and 22.5 per cent to Kenya.

8. GENERAL -

Other information on the labour market, employment taxation, exchange control, labour relations, foreign currency, social security and industrial training is given in the Investment Guide in detail.

9. INFRASTRUCTURE

Kenya has a well developed road, rail and air traffic system, as befits a country which has been a main channel of development of the African hinterland. Future developments, such as the Pan African Highway raise long term questions of investment in new seaport and airport facilities as well as road improvements. These, in themselves raise further questions concerning long term planning and international finance which have a bearing on the planning of an industrial free zone and in particular its location.

These, however, are so long term that the decisions on location of an industrial free zone cannot be dependent on the location of Kenya's second port, or the opening of the Nairobi-Addis Ababa road, or of the Pan-African Highway. The fact that these projects are under way or being planned means that the products from the industrial free zone can more easily be exported in future, than at present as Kenya's traffic links expand.

To illustrate this, a list of on-going projects related to multi-modal transportation in East Africa is given in "Annex II".

10. SEA TRANSPORT

Mombasa's Kilindini harbour is being continuously extended, but is at present overloaded.

Studies have been undertaken on various problems by three consultant firms McKinsey (UK finance), Cet Consult (UNCTAD) and by Bertlin and Associates (IBRD).

One result is the studies now under way on a second port, at either Kilifi, Malindi, Ras Ngomeni, Manda Bay or Anuromache Reef. This port would assist the land-locked countries in the hinterland more than Kenya itself. Mombasa traffic is now approximately 55 per cent for non-Kenyan destinations in East and Central Africa (only 40 per cent of Dar-es-Salaam traffic is for Tanzania).

The present situation, and that for 1974-1975 indicates that the majority of exports from an industrial free zone located in Kenya would tend to be high value to weight ratio products such as transistorised, miniaturised and other electronic equipment, watch/clock, data-processing, memory cores, lenses and jewellery. Such exports can support the air

freight charges since the producers enjoy tax and duty privileges, low cost labour and low overheads, which reduces their production costs.

In any event, the shipping volume to and from an industrial free zone involved would be unlikely to be significant until after 1970.

11. AIR TRANSPORT

Large development schemes involving new runways and other facilities are planned and due to begin construction shortly both at Nairobi and Mombasa Airports.

Nairobi - Chart No. 5 + 6

Although East African Airways, a Community run airline is experiencing financial and managerial difficulties, traffic, both passenger and freight, doubled at Nairobi, between 1964 and 1972. Passengers have exceeded the one million mark, due to intensive tourist promotion.

Anticipated increase in traffic at 13 per cent per year indicates that congestion might be experienced by 1975, (despite the existence of Wilson Airport for private flying and Eastleigh for military), so that new works are about to be carried out to build a new runway and terminal, as well as enlarged infrastructure.

Although land is available near the Airport, provision of services for industrial activities is not feasible due mainly to lack of water and advanced planning on urbanisation elsewhere.

Mombasa - Chart No. 2 + 4

Mainly due to tourism and the desirability of making Mombasa an international airport (direct flights from Europe), land is being acquired, and the existing road to Nairobi diverted, to provide a new runway capable of taking Jumbo Jets. Although land near the Airport is still sparsely inhabited, acquisition of further plots could cause social friction, and land north of the Nairobi-Mombasa road at Mitirini is probably a better industrial free zone site. This matter and that of the Changamwe Industrial Estate is extensively reported on elsewhere.

REPUBLIC OF KENYA

PRE-FEASIBILITY STUDY ON INDUSTRIAL FREE ZONES

PRELIMINARY REPORT

BY

P.F. RYAN (UNIDO)

in collaboration with

INDUSTRIAL SURVEY AND PROMOTION CENTRE

MINISTRY OF COMMERCE AND INDUSTRY

MARCH 1974

"The Report has not been cleared with UNIDO which does not therefore necessarily share the views expressed."

(Report produced in the field, and tabled at a Meeting held in Nairobi on 21 March 1974).

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ECONOMIC SURVEY
INDUSTRIAL FREE ZONE
ECONOMY AND TRADE

I.

1. This Report is only preliminary, written after the completion of intensive investigations in Kenya. It is submitted as a skeleton report, since this gives an opportunity for a "live" reaction on the spot. This has been found to be more effective way of proceeding than by submitting only after a delay of some months, the final report.

2. An Industrial Free Zone is basically an Industrial Estate in which foreign or domestic investors, or joint ventures between the two, produce manufactured products for export.

It is usually situated near an International Airport or seaport, although its form differs in every country.

As yet there are few IFZ in full operation, as the technique is new. Examples are found at Kaosium (Taiwan), Masan (Korea), Mauritius and Shannon (Ireland).

IFZ must not be confused with other free zones of a purely commercial or storage nature. The type of IFZ which UNIDO support are primarily manufacturing and exporting units.

3. The mission, having studied the situation regarding the current economic position of Kenya as it is affected by the balance of trade, concludes that in view of recent events leading to import restrictions and other anti-inflationary measures, exports must be increased by all possible means. Unless this is done, the foreign exchange position will force a cut-down in productive equipment imports, leading to economic stagnation, if not to actual recession. Thus, establishment of an IFZ is desirable if conditions permit. This is considered feasible for the following reasons:

1. Kenya is attractive to foreign investors mainly because of its political stability.
2. The Development Plan for 1970-75¹² emphasises the importance of increased exports and points to a lack of suitable joint ventures to achieve this.
3. The Plan emphasises the need for better co-ordination of Ministries (Part II para 11) to deal with potential foreign investors, which is exactly what an IFZ achieves.
4. Kenya already has parastatal bodies of the type found to be essential to manage a successful IFZ, namely, autonomous, state owned corporations, such as I.C.D.C. and D.F.C.K. The legal machinery and precedents therefore exist.
5. Kenya has highly developed institutions for assisting and financing private sector entrepreneurs such as ICDC, DPCK, IDB the E.I. Development Bank and Industrial Promotion Services.
4. Institutions such as the World Bank and bi-lateral financing Agencies from several developed countries have already made preliminary studies regarding the finance of industrial estate & housing complexes in Kenya. Therefore to carry out a full cost/benefit financial analysis (on a cost flow basis), could be done rapidly in view of the existing reports and studies available.
5. An IFZ fits together with the Government's main objectives for development, as for example expressed by the Minister for Finance and Planning in the Development Plan (Part I Preface, Pages IV and V.)
6. It is therefore recommended that the Government consider the establishment of an IFZ in Kenya, by utilizing existing industrial sites (zoned as such by planning authorities) either at Nairobi or Mombasa.

7. Suitable sites exist in Mombasa in the Changamwe and Miritini area north of the airport and in the northern city, and in Nairobi at Dandora and Ruiru.

8. Existing legislation, "Foreign Investment Protection Act" - (Cap. 51A Law of Kenya) provides adequate protection to any stores in the form of a "Certificate of Foreign Investment", with the following exceptions:

1. Repatriation of profits of export business from an IFZ is normally controlled for the first 5 years at a rate of 20% per annum, starting from the date of first shipment.
2. Such profits would not be subject to any tax for the first 5 years. (Or any other period if desired).
3. Section 74 of the Constitution of Kenya provides for two situations in which compulsory acquisition of property is possible. This would not be acceptable to investors in an IFZ, and would make promotion of investment incentives difficult. It would be essential to exclude IFZ investors from such compulsory acquisition by incorporating a specific guarantee in the statute establishing the IFZ as a corporation.

II. BACKGROUND

The Government of Kenya requested through the Resident Representative of UNDP on 26 October 1973 that UNIDO provide them with an expert in Industrial Free Zones, to examine the prospects of establishing an IFZ in Kenya. Mr. P.F. Ryan arrived in Kenya on 5 March 1974 and will remain for 3 - 4 weeks to complete the study.

A. The advantages of an IFZ are basically:

1. Creation of employment

During a period of 5 years at least 30 firms should establish export manufacture and, with labour intensive technology should employ up to 5,000 or an average of 166 persons each.

2. Contribution to balance of payments

Experience shows the ratio of imports to exports to an IFC to be about 32% imported raw material to 68% local value. Of this 67% is net industry labour cost, and of the remainder some 15% is remitted overseas in the form of profits. As at 1971 is spent mainly on services such as insurance, transport, housing,

3. Multiplier Effect

For every IFC job within the zone, approximately 1.5 further jobs should be created in local industry supply of parts, and raw materials) and especially in service industries - transport, rail and air, construction, packaging, hotel, taxi, bank, insurance, shipping, maintenance, import etc.

4. Impact of technology

IFC firms export sophisticated products which have already existing markets, thus training labour and supervisory staff in new techniques. Through "backward linkage", such skills move, in time, into the domestic economy.

5. Industrial Reputation of Host Country

The existence of an IFC attracts inquiries from many developed country firms looking for politically stable countries with low-cost labour from which they can operate. Many such firms cannot set up in an IFC as they need specialised factory buildings. They therefore set up under specially negotiated terms outside the IFC. The initial interest however, is created by the existence of an IFC.

6. Diversifying business

The fact that IFC operators manufacture with low overheads (low capital expenditure, low labour costs, no tax or duties) mean that they are in a position to export items to developed countries which are competitive in price.

Employment opportunities for, labour, technical experts, party, and other labour intensive industry products. Other forms of watching, watch, jewellery, leather, clothing, tailoring, toys, cameras, food processing, furniture and of course, cement production, and other textile products. The ITC Authority in an ITC would compete with local export firms, so localisation committee may simply result in all local employment.

B. Disadvantages of the Industrial Zone

These are all of an initial nature:

1. The Government must maintain a suitable industrial estate of about 20 acres with a further 50 acres available for expansion. All services must be provided - roads, power, sewer, water, sanitation, fire service, first aid post, telephone, post office, bank and administration offices.
2. The Government must provide staff for 10 at 20% per annum and 20 - 30 maintenance service staff rising to 30 to administer the zone. Eventually rental will pay for salaries, but in the first 5 years not. After 5 years the early entrants will begin to be taxable, unless a longer tax holiday is given, which will produce a net income to the ITC Authority.
3. The investment incentives of the ITC must be promoted actively overseas just as tourism is promoted. Existing commercial offices can help, but especially advertising, direct mail or brochures etc. must be undertaken, usually together with tourist and natural airline promotion.

A total minimum budget is given below at III, under costs.

C. Government Strategy

The 1971 - 1975 Development Plan emphasizes exports as a high priority, but recognises that there has been a lack of joint ventures to produce, in the domestic economy, manufacturing plant, machinery and equipment. It is admitted that w/ IFT as a first step in this direction, as once a country has a working IFT, it is demonstrated internationally that the country concerned has real industrial potential.

This leads to potential investors taking renewed interest in investment in the country as a whole.

The Plan shows much concern with the maintenance of revenue through taxation of new industry, to replace the loss of revenue from import duties n't now levied on machinery. The change to a 10% sales tax and an export subsidy to replace the old system of duty remission and refund should produce an optimum tax revenue, despite new import restrictions.

Little if any revenue is lost fr^e all time duty free imports t^r w/ IFT since production machinery is already duty free. Raw materials imports to most IFT in such items as described above (under 3.1) e.g. electronic parts, metal, raw leather, unpainted brass, unassembled automotive parts, etc. which are not imported into Kenya now in very quantity, and so, not a significant source of revenue.

The combination of corporate taxation on export business for an agreed period (5-10 years is usual), is the premium to be paid to enter into the technological revolution in a competitive way.

Without an IFT the investors interested in IFT operations would not come to Kenya at all. After 5 - 10 years, substantial contributions to revenue.

Import duty on mineral oil products in IPT is now standardised so that it is proved that such materials are transported at the same quality level only. An EEC report in the last 1971 budget of the Development Plan, submitted to the Ministry of Commerce and Industry (Part II) states, that "the Government has decided to increase the Minister of Finance and Planning's authority to fix rates of import duties.

The Finance ministry's intention is to stabilise the industrial growth trend in the economy, and that obviously cannot be effectively achieved by import tariff policy. Sustainable growth largely depends on increased stability in import demand and market forces. Thus, it is planned that in the next three years, general reduction of tariffs, changing of the import control system will have a better effect than import controls which are now being imposed by the EEC.

The minister has stated in the East African Community Act, especially as they refer to the entry of other countries into community trade, that the Treaty for East African Co-operation Act of 1967, will continue that no EEC in Kenya would face any difficulties with partner states. A Ministerial Council will have to take care whether exports from the EEC could be allowed into certain states in view of the scope of membership in Kenya.

III. ~~DATA~~

Not detailed information except that will be produced in the final report.

The table below is therefore an attempt based on the locally obtained data as at the March 1972.

The quota given for phase I only, that is the acquisition of 100 acres of land in a non-industrial area of Nairobi. Other quota are based on developing 20 acres only.

CAPITAL COST ESTIMATEKENYA POUNDS

	<u>1974</u>	<u>1975</u>	<u>1976</u>
<u>LAND (100 acres)</u>	8,400	-	-
<u>LAND DEVELOPMENT</u>			
(Levelling, cutting, removing drainage, survey and supervision - 20 hours)	-	400,000	-
Telecommunications, water tank, fire, heat system	-	100,000	-
<u>BUILDINGS</u>			
Administration block	-	40,000	-
1 standard factory - 4,000 sq. ft.	-	12,000	12,000
1 standard factory - 7,000 sq. ft.	-	21,000	21,000
(Wood frame roof, concrete floor) physical contingency (10%) -	7,000	3,000	666
Engineering + supervision (2%) -	1,000	400	66
Project total (constant pounds) 5,000	581,760	36,960	3,096
Cost of plant (10% yr.)	58,176	3,696	662
	<u>Rs. m</u>	<u>Rs. m</u>	<u>Rs. m</u>
	8,400	639,916	40,662

General Costs

Staff required will be:

- A. General Manager
 - Investment Analysis and Planning M.
 - Civil Engineer
 - Accountant
 - Personnel Manager
 - Administration Manager
 - Promotion/Publicity Manager
- Rs. 20,000

	1974	1975	1976
IV. <u>OPERATING EXPENSES</u>			
Construction			
Maintenance			
Security			
Accounts			
Printing			
Secretarial			
Travel Expenses	1,000		
V. <u>Personnel Costs</u>			
1) Accountants	4,000		
2) Skilled hands	3,000		
3) Unskilled hands	1,000		
Total estimated annual costs	12,000 (6 months), 24,000 17,500 (12 months), 35,000		
Total Estimated Costs			
Capital	10,000	100,000	40,000
Staff	-	15,000	30,000
Equipment	-	20,000	20,000
Maintenance and Repairs	-	15,000	15,000
Depreciation	-	2,000	3,000
Interest	-	5,000	40,000
Investment Protection Budget	-	-	100,000
Estimated ANNUAL TOTAL	5,000	162,500	269,500

IV. FINANCES

Revenue from 1973 - 1980 would come from factory rentals only.
 After 1980 revenue would come from corporate function as well,
 assuming a 5 year tax holiday.

It is not possible at this stage to give a financing plan. An IIRR team (Urbanization Division) was in Nairobi in March 1974, and finance for Davydoni Kireka housing/industrial area was examined. A proposal for a full financial feasibility study based on this proposal will be submitted to IIRR through the UNDP/IIRR Unit in Kenya.

ECONOMIC AND SOCIAL EFFECT

1. Sector Development

Prepared sites and services consolidate the investments made by offering physical advantages, tax and duty concessions complete the process of speeding up development. Admittedly, industries continue to be established in Kenya without an IP, but the readily available buildings and services will attract more investors sooner.

Local capital, which may leave the country otherwise, will also be attracted, to establish joint ventures with foreign firms.

2. Employment

Apart from jobs in the zone itself, and those created in service industries outside the zone, there is an intensification and upgrading of skills. The turnover of workers in the zone creates development of industry outside it.

(In Mauritius, the New Coronando estate of 60 acres is estimated to provide 14% of all new jobs between 1973 - 1980).

3. Social Benefits

The working environment is much improved by estate management - clean conditions, a central canteen, control of pollution, welfare centre, employee association, sports club, etc.

4. Economics

The concentration of industries in an industrial park will bring economies in planning and providing infrastructure. The most economical methods can be used, keeping costs as low as possible. Also lower capital investment is required in factories as a result of the common utilities.

5. Development of Entrepreneurs

A rising trend in local participation in joint ventures is stimulated outside the zone, local industry to be invited to produce components and services. This fits in with the expansion plans of the Kenya Industrial Estates.

6. Financial Benefits

Assuming sales of KSh 10 million by 1980 when firms begin to pay tax on profits, corporate income taxes of 45% would produce (on 10% profit) KSh 3.5 million when all firm tax holiday ended.

Taxes on personal incomes of I.F.T. staff and firm employees can be added to this.

7. Foreign Exchange Earnings

Profit remittance is usually limited, at least during the tax holiday, to about 20% per year.

In fact, I.P.T.'s experience is that at least 95% remittable profit is spent locally on services.

Value added - approximately KSh earned

Imported materials

(see above II.A.2)

IV. SITE SURVEYS

1. SURVEY OF MONBASA AREA

Timing - 8-13 March 1974

Together from the counterpart from the Industrial Survey and promotion centre Mr. Njuguna Mwangi.

Geographical (See Chart No. 1)

Mombasa consists of an island connected to the mainland:

- a) north - by a "Bailey" type bridge, connecting the island to Nyali residential area. The road leads north via Kilifi, Malindi and Lamu to the Somalia border.
- b) west - by a causeway carrying the main Nairobi Road.
- c) south - By Likoni Ferry leading to recreation/hotel areas and road to Tanga.

Industrial Areas - (See Chart No. 2)

1. Changamwe
2. Miritini

The Changamwe industrial area consists of 174 acres north of the main Nairobi-Mombasa road, adjoining the oil refinery.

Some of this area, as shown on Chart No. 3 and 4 is already occupied by small factories, blanket, garment, towel, chemical works, precast concrete. In the centre, an Industrial Estate is planned, and the architects, Hughes and Polkinghorne received the go-ahead during our visit to begin construction.

Stage I will be 10 - 14 acres

Stage II will be 5 - 30 acres

In theory, there should be over 100 acres of this area left for an Industrial Free Zone. As only 20 acres would be needed at first, this seems at first sight, to be a feasible location. As however, it would be expensive to move the IFZ at a later date, the planning team for the IFZ should examine the area carefully to establish whether:

- a) The reserve 80 acres can be kept free of buildings pending development.
- b) The rail served area planned does not cut the area in half, bearing in mind that the IFI has to have a perimeter fence, and only two, customs manned entrance/exists.
- c) In view of existing factories and the location of the Industrial Estate, there is an area remaining of at least 100 acres, which could be reserved for IFI development.

The area is very suitable for an IFI, as it is bounded by road and rail, and adjoins the refinery (which has excess fuel oil and L.P.G. for sale). It is also located in an area with ample population, with good and easy access both to the airport and to Kilindini docks.

(Photographs of the area are to accompany the top copy of the report).

Outside the Industrial Area, but still within Changamwe, there are areas which could be suitable, marked on Chart No. 2, as "Industrial" (shaded).

To keep development costs down, it is advisable to use only flat land which is not subject to flooding, subsidence or other defects, such as necessity to stabilize by sinking piles.

The area north of the road on the north boundary of the refinery was also inspected. It is not entirely flat, and in part requires piling even for domestic housing. Unfortunately, one of the best potential sites already has a metal rolling mill built on it.

Where this road joins the main Nairobi-Mombasa road there are several small sites with some factory development which should be investigated.

Airport Area

An interview with the Airport Manager Mr. Shui revealed the plan to extend the runway north towards the refinery. Tenders for construction were opened on 1.12.1973, and the necessary land had already been purchased by the Ministry of Lands, to provide a runway 3,350 metres in length.

Bush land here costs about Shs. 3,000 per acre. Residential land costs about Shs 25,000 per acre.

A portion of the refinery extension area has been requisitioned for re-alignment of the road. (See Chart No. 2). As a result an area shown on Chart No. 2 has now been allocated to the Refinery, south of the main Nairobi-Mombasa road. This land is partly occupied and the necessity to move residents will cause some social stress in this area, so that further acquisition of land for an IFZ in the area bordering the airport may well be undesirable. (This was the opinion of the Commissioner of Lands in Nairobi, Mr. O'Laughlin).

From the air however, existing housing does seem relatively sparse, and mainly of the temporary type so that closer investigation should be made to see if 100 acres could be obtained bordering on the airport area.

Miritini (Chart 4)

This is an acre scheduled as industrial, west of the Refinery. It could be a good IFZ site as it is on the main road, near a heavily populated area, near the airport and refinery.

Planning - Mombasa

Several visits were made both to the Provincial Planning Office, (Ministry of Planning and Finance) and to the Town Planning Office (Municipality, Treasury Square, as well as to the Ministry of Commerce Office, and to the KIE Architects office - Mr. Grewal, Hughes and Polkinghorne.

The relevant chart No. 3 (scale 1/1,250) was prepared in January 1973 by H. Averley to show the Changamwe Industrial Area of 154,250 sq.m. (Also see drawing K/7241/1 January 1973 and Changamwe Drawing, Departmental Reference 12.2.ct.2.7).

There is some evidence of lack of co-operation between Provincial Planning (Ministry of Planning and Finance) and Town Planning (Ministry of Lands and Settlement), not in Nairobi, in particular, but between the Ministries in general. This may be due to the fact that central authority is located in Nairobi, and possibly to the fact that some studies (like this one) are not circulated widely enough.

It is recommended that Inter-Ministerial Meetings examine the problem, as it leads to delays in project implementation, such as the Airport extension and the Kenya Industrial Estate at Changamwe, and could lead to delays in site survey and selection for an Industrial Free Zone site.

Refinery

In view of its strategic situation and the necessity to re-orient its expansion area to provide for the new airport runway, a visit was made to the Refinery.

The refinery came on stream in 1963 as a Shell/BP enterprise, which was joined in 1964 by ESSO and Caltex. The Kenya Government participated from 1971. The present Kenya £ 12.5 million expansion finishes in April 1974 (Total investment K£ 20 million).

When complete, the refinery will employ only 300, although 1,000 are now employed on construction work. All crude is imported. Usage is 40 per cent Kenya, 30 per cent Uganda and the remainder for N. Tanzania, Ruanda-Burundi, Zaire. Much fuel oil has to be exported, as demand is insufficient locally as yet.

The local labour situation is illustrated by the fact that for 30 jobs requiring KCE (Kenya Certificate of Education) for pipel-fitters and welders, 6,000 replies were received. Over 200 have been trained in these skills and found to be very adaptable and quick to learn.

15 acres will be required from the unused portion of the refinery area, of which 8 acres are needed for the runway. The remainder has to remain sterilized of any steel structures to avoid interference with Airport ILS. (Landing and take-off location indicator system). A similar area south of the runway is allocated to the refinery.

2. Nairobi Area

The optimum site for an industrial free zone is adjoining an airport or seaport. Then, again, whether incoming or outgoing can be transferred without need for Customs and Excise supervision, thus reducing paperwork, time and costs.

If there is any gap between the zone and the airport or seaport, the distance involved is relatively insignificant. That is, it is not important whether the distance is one mile or 10 miles, since the main cost involved is not Transport but Customs supervision.

The question of land availability around Nairobi Airport was carefully examined, by study of the drawings available from the Ministry of Planning and Finance, and from the Nairobi City Council.

Interviews were conducted with:

Mr. Ligase, Director, Physical Planning, NCC
Mr. O'Loughlin, Commissioner of Lands
Mr. G. Nyau, Chief Planning Officer, NCC
Mr. J. Kahonge, Valuer NCC
Mr. H.G. Mathot
Mr. L.J. Poyck
Mr. G.J. Verbeek

From Chart No. 5 can be seen the Government and NCC land acquisitions, which include both the Dandora and Ruaraka areas, which were recommended as possible sites. Both are sized industrial/housing areas, and a new multi-lane road is planned from the area to the airport. In fact this

area has been surveyed recently by the International Division of EPC to examine the finance requirements for the housing development.

The ideal site for an Industrial Free Zone would be the area adjoining the airport, outside of the standard flight path, in the present unpopulated plate (e.g., Ngong Hills, Kikuyu, etc.).

Although there is much waste land available at present, it would not be a great problem for the zone to move further away from the Nairobi-South, Mombasa Road, Nakuru road. Eventually, a housing area, or a satellite to Nairobi could be established in the vicinity. A precedent for this is the Kikuyu Village at the airport itself.

As the Industrial Area of Nairobi is already very congested, an Industrial Free Zone is not possible in or near the city. A zone situated near the airport would tend to relieve this congestion, which, particularly from a road traffic point of view, is unlikely to improve. The zone would form an alternative employment centre, away from Nairobi itself.

However, as can be seen from charts 1 and 2, there is no plan to extend any development nearer than 1 km from the airport up to the year 2000. This is, of course, arbitrary. Development would extend between a city and an airport, for various reasons. It may not be desirable to have an Industrial Free Zone bordering on a City Park, but, as visitors to operating Industrial Free Zones know, pollution and noise are kept to a minimum in all Industrial Free Zones.

It was also emphasised by the planners that the provision of services to the community in the Airport would be much more expensive than in the Dandora community.

In addition, therefore, the Dandora community is much nearer the Airport than Kariobangi, and closer to both the Rail Link, and the Mathare Road, while in the performance in the former area for an industrial free zone.

3. MEETINGS

3.1. HELD, INFORMATION TYPE

1. Held on 11 March 1971 in Nairobi, after visit to Rottnest. Nineteen officials from thirteen different Government departments attended the meeting.

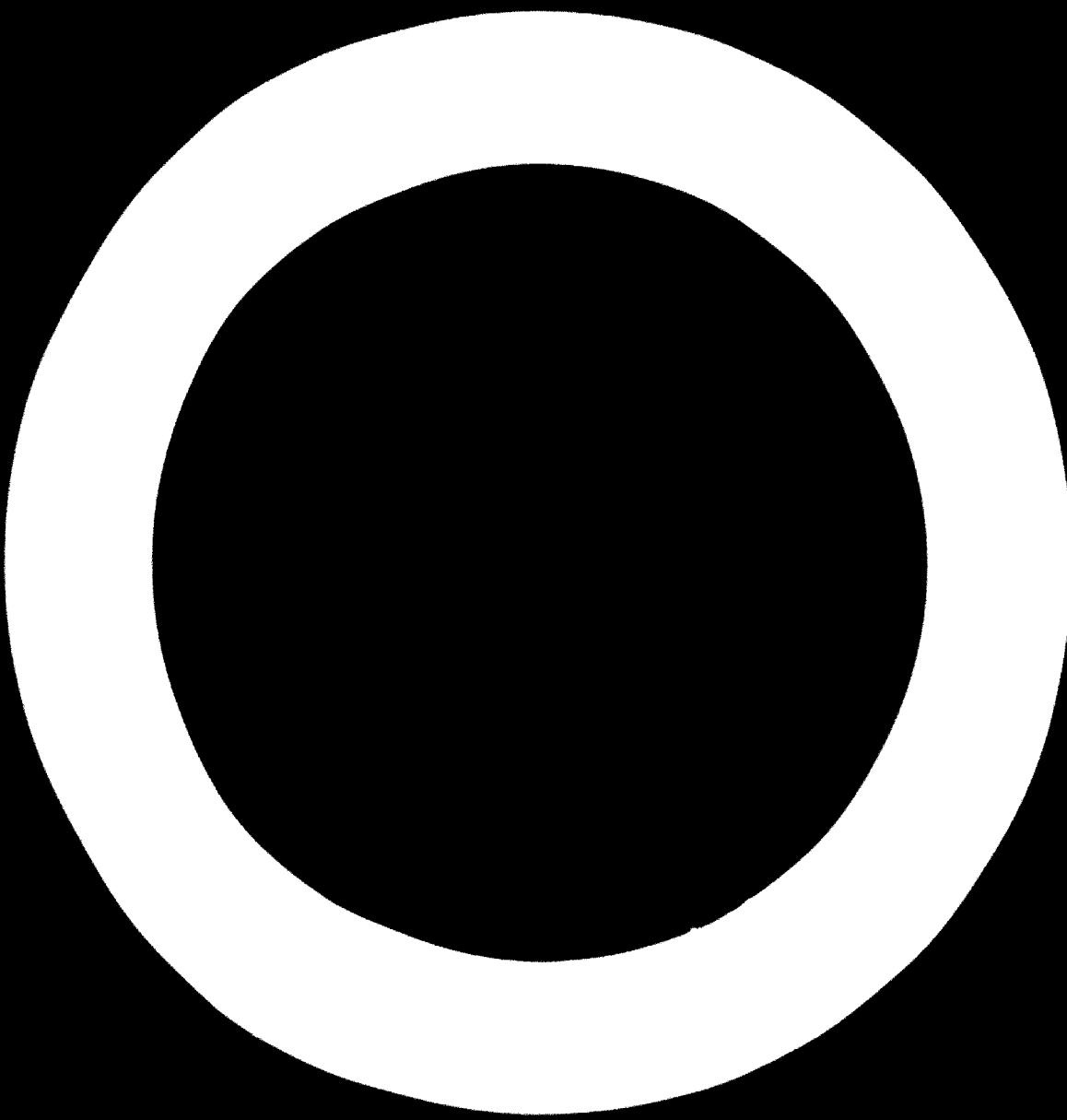
The minutes are attached as Annex 1.

2. Held on 21 March 1971 in Nairobi at the completion of the Mission.

Sixteen Government officials and UNIDO's Senior Industrial Development Project Advisor (Annex 11) attended this meeting at which a preliminary report (Annex 11) was studied and discussed. As a result of this it was decided to recommend further steps to be carried out.

- 3) To request UNIDO Fellowships or Study Tours, so that two or three officials could visit operating Industrial Free Zones with the objective of examining costs and benefits at first hand, and possibly planning the training which would be required in such areas for designated Industrial Free Zones administration officials (see Annex 11).

- b) To prepare a full cost/benefit analysis type of feasibility study to examine present and future wind, solar, flow energy and wind energy climate change inputs and results to be implemented.



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APPENDIX E - COMMUNIQUE

APRIL 1968

RECORDED INFORMATION

RECORDED

The Chairman pointed the meeting up to President Mr. Foster who stated the Center that dated 1st April 1968, had been given to the Association of A.D.D.L. to make over to the "Young Industrial People's Council". The Council of the A.D.D.L. was to be establishing a "Young Industrial People's Council". The Chairman pointed out the need of such a meeting so that various government and other institutions which would be affected directly or indirectly would be able to benefit from such a thing.

Mr. Ryan has not been given the floor provided following the agenda which had been sent to members.

Conclusion

The concept of Free Trade Park (FTP) is quite a recent development at the European level, but its historical evolution is like the history of the industrial area, in fact it appears to be a natural consequence of previous historical stages of industrial development, particularly of factories. There are over 120 types of different types of factory, depending on their characteristics and on different zones, like "Free Zone", "Free Trade Zone", "Free Port", "Free Production", "Bridging Zone", etc. In all of these, there is one element common to all: except territory, FTPs other than industrial zones based on the same concept but the basic difference is that it is based on the multi-level industrial complex. For the first stage, we can consider today, as planned, is that industry is attracted to FTPs and that it is an industry which is import parts, miniaturized or "packaged" and products which are not produced here, a local market.

It can be noted at that in Northern and Central (Sweden, Norway, Finland, Denmark, Poland, Belgium and France, Netherlands) and Southern (Italy) have successful industrial zones although the nature of industry is different from the one in Germany. As pointed out the complexity of starting up industrial FTPs, the first step you make is to know initially of about 20 factors built infrastructure and to buy those items, you can start production work which is the usually the way to win a channels, airlines etc. The condition that is important to build with them their export markets as part of their plan for investment.

Conclusion in short summary

- a) Creation of job opportunities.
- b) Development of export-oriented industries.
- c) Increase of export and import exchange.
- d) Stimulation of domestic and particularly foreign investment.
- e) Demand for large-scale industrial techniques.
- f) Concentrated and rational work in the infrastructure development.
- g) Creation of new sources of income through subcontracting, service marketing strategy and through multiplier effect of value of I.T. (i.e., the jobs created outside area by every job inside area).

MANUFACTURERS

- (1) Duty on the value of the plant and machinery up to £10,000.
- (2) Duty on the value of the building up to £10,000.
- (3) Duty on the value of the land up to £10,000.
- (4) Duty on the value of the plant and machinery above £10,000.
- (5) Duty on the value of the building above £10,000.
- (6) Duty on the value of the land above £10,000.
- (7) Profitable rate of interest.
- (8) Profitable rate of interest on the cost of capital equipment and freehold property.

The following table shows the estimated rates of duty on revenue and capital equipment by the new method of valuation of the plant and buildings and the old method of capital and revenue for 1961.

FACTORIES

It was pointed out that the new method of valuation showed that there were no longer any financial objectives. On balance, no special earlier should be imposed on the fact as an incentive, for it is clear that the firm's inventories will calculate the profit produced by its products in terms of capital costs and variable costs. It will be up to the product or the DPC to append to the other alternatives.

Sites

It was pointed out that site choice is very important. Prior experience of development work can be broken down as follows:

Land	10 - 15 per cent
Infrastructure	5 - 8 per cent
Buildings	10 - 15 per cent
<u>Summary</u>	
Physical	15 - 20 per cent
Price location	21 - 25 per cent

A site with an area of about 50 acres with 120 factories could cost up to £3 million and with 30 factories with up to £750,000. But a site near already existing industrial areas would have lower costs. The management of such an estate is best done through a permanent organisation.

Labour

Kenya Industries and Development Board's policy of local labour is emphasised and planning of industrial estates in rural development, labour force is an all important factor in the economy.

Economic Effects

- a. Distribution of foreign exchange balances
- b. Employment
- c. Backward linkage extends itself to the whole economy e.g. in Ireland the U.S. firms have been attracted to the country in general
- d. Diffusion of people with the commercial or technical knowledge from the zone to the general economy helps to increase productivity.

After giving the above brief, Mr. Ryan asked Mr. Chairman whether there were any questions. Since none was asked, he went to explain Mombasa area which we had visited as one of the possible choices. He pointed out in theory, I.F.C. could be built in Zone industrial areas. Kenya Industrial Estates plot looked ideal, and he pointed out that a go-ahead has been given to start developing Kenya Industrial Estates in Mombasa. The reason why such an area would have been ideal is due to its proximity to the airport, for air transportation is extensively used for products from I.F.C. and also the area being next to a refinery could be supplied with fuel easily.

He then turned to Nairobi as a possibility and he said the area around the Nairobi Airport would be ideal because the industrial area is connected and again I.F.C. usually built near airports, where customs officials can at any time come in and check whether the laid down regulations are being followed.

Mr. Lee from Nairobi City Council asked whether other sites in other towns would not be ideal, for the present policy is to try and have geographical diversification of industries from Nairobi. He also suggested that the Council could suggest better sites in Nairobi than the one at the Airport.

Mr. Ryan answered that in theory, even a town like Kisumu which compares well with Shannon geographically and development-wise relative to other parts of the country could be considered, but development costs might rule it out. One main factor being lack of an International Airport or Seaport. So initially, Nairobi and Mombasa are the best choices.

Mr. Jonquieres from Ministry of Labour wanted to know what type of industries will be allowed in I.F.C. whether labour intensive or not.

Mr. Lyons: Since the time of our first meeting, I have continued with I.F.C. in both labour and capital intensive. This being so far private sector investment particular of I.F.C. technology. Therefore, it is important to mention that 40% and training by sending technicians abroad, to the private sector country. However, the same treatment will not always apply. All the same, I would like to get some applications.

Another member in the committee wanted to know whether I.F.C. is aimed at developing countries, or the level of plant development with whom they do first will operationally remain other priorities.

Mr. Ryan: confirmed that it is a matter of priorities of what development path a country follows. However, he pointed out if a case like that of the oil refinery is taken, where 50% foreign capital wanted and 50% locals apply, it points to a need to establish employment which would be through people. He pointed out that a country like Mauritius which mainly export in sugar production had few alternatives while Kenya has alternatives. He again pointed out that Ireland started with only 5 acres for lease.

At this junction, Mr. Lyons pointed out that in order to receive the idea properly, UNDP has Fellowship funds which can be used by interested governments to send officials to places like Ireland or Singapore for on the spot explanation.

Mr. G.D. Schiel: I.F.D.C. pointed out that since economic unit in other places where I.F.C. has worked are as large as Kenya, what would then happen if local demand of products from I.F.C. which is a privileged one grew up?

Mr. Ryan: said that goods from I.F.C. were unlikely to have local market but in case they do, duty is levied like any other commodity entering the local market, no undue advantage would be allowed. Free zone manufacturers were encouraged to export 100%. If domestic demand started then, that demand would be left for a domestic investor to satisfy. Many countries, he pointed out, are going for this idea as a mid line to industrial development e.g. Egypt, has put I.F.C. idea as a priority number one.

Mr. Verbeek: Ministry of Housing wanted to know whether any consideration had been given to the question of housing I.F.C. employees.

Mr. Ryan: said that housing problem will definitely have to be tackled and so are other problems which have to be planned for by other ministries.

Mr. Verbeek went on to ask what stage the study is and Mr. Chairman told Mr. Verbeck that Mr. Ryan will write a report which will be sent to the government upon which the government will decide how to pursue the matter.

Mr. Tambura from Ministry of Works wanted to know the direct impact to the economy, upon which Mr. Ryan said it brings organized investment procedure. To sum up, Mr. Ryan promised to send reading materials when he goes back to Vienna. These would be available in the Industrial Survey and Promotion Center, Ministry of Commerce and Industry:

Tel: 32811

Address: 30430, Nairobi

Also another meeting he said was necessary. At this juncture, Mr. Chairman asked whether there were any more questions and when none was forthcoming, he closed the meeting.

19.3.74

Peter Njuguna Mwangi
(Industrial Survey and Promotion Centre)

Synoptic Review of On-going Projects relating to
Multi-modal Transportation in Eastern Africa 1973/1974

Study or Project Title	Executing Co-operating Agencies	Objectives) of Study or Project	Geographical Coverage	Tentative Date of Completion	Decision taking authority
<u>A. Ports</u> <u>operational facilities</u>	<u>UNDP Training and Development Project/ Port African Harbours Corporation</u>	To assess (a) port lay-outs and (b) (future) cargo volumes and capacity development.	Port of Dar-es-Salaam	(a) and (b) completed continues until April 1974	Board of Directors E.A.H.C. Communications Council/EAC)
a) Dar-es-Salaam					
b) Tang		d.o.	Port of Tang	Preliminary report completed, to be updated and further developed (b)	d.c.
c) Mtwara		d.o.	Port of Mtwara	updated and further developed (b)	d.o.
d) Mombasa		d.o.	Port of Mombasa	completed, to be further pursued	d.c.
Performance Awards Committee	<u>UNDP Training and Development Project/PAMS/East African Cargo Handling Services</u>	To study cargo flows port capacities, technological developments. To look into operational aspects related to handling performance in the ports.	East African Ports serviced by EAHC/ EACSER.	mid- 1974(?)	Management EAHC/ EACSER.
<u>Logistics Development</u>	<u>IRD/ EAC</u>	To establish a Master plan for the economical developments of Dar-es-Salaam port to the year 2000, in the light of intensive traffic, operational and future shipping investigations.			

Africa Second Port Study	UNDP/UNEC/UNPP (?)	To advise on short and long range (to the year 2000) port extensions and improvements and their technical and economic feasibility.	The ports of Tanga, Mtwara, Mombasa, Lamu, Kilwa Masoko, Lindi and potential port sites on Mafia Island and their respective hinterlands.	Not known yet, application for financial assistance is in the process of submission.	Board of Directors, EAHC, Communication Council, E.A.C. (UNDP/UNPP).
Kenya Government/ EAHC/UNPP (?)	UNDP/UNEC/UNPP (?)	To investigate technical and economic feasibility as well as location of a second port in Kenya.	North-Eastern Coast of Kenya and its hinterland.	Interim Report completed, final report second half 1974.	Kenya Government; Board of Directors EAHC; Communications Council, E.A.C.
Eastern Africa Hoping Study	UNCTAD/TECOS	(a) To appraise the compatibility of Eastern Africa's present system of ocean transport with the characteristics of its trade.	Kenya, Uganda, Tanzania, Zambia (Rwanda, Burundi, Zaire)	first draft to be completed by mid-1974; final draft to be ready by end of 1974.	ISCS; Governments of Kenya, Uganda, Tanzania and Zambia; (UNCTAD)
		(b) To develop a configuration for ocean transport services that will optimise their contribution to further development of Eastern Africa's Trade;			
		(c) To recommend appropriate strategies and actions for implementing an optimum ocean transport system.			

Initial Studies	Economic Commission for Africa/Governments of Ethiopia, Somalia, Kenya, Tanzania, Madagascar/UNCTAD	To recommend in the field of coastal shipping and on establishment of multi-national coastal shipping companies.	Governments concerned, Eastern Africa Permanent Transport Communications Committee of ECA (ETDP).
Study Group on Classification of Goods/Tariffs in East Africa	Communications and Common Market Secretariats of EAC/ EAC Partner States	(a) To advise on matters relating to "combined Transport Convention"; (b) To advise on transport policy options with respect to inter-modal transportation.	E.A. Community Partner States Terms of Reference Economic Consultative under consideration. Continuus reports expected after work has started (in Jun./ Feb. 1974)
Workshop on International Transport	ICAO/EAC/Governments of Eastern Africa Sub-Region	"Workshop" to discuss and advise on proposed convention on International Intermodal Transport and related matters.	Fiscal conclusions awaited before end 1975.
Conference on Container Transport	ICAO/EAC/Governments of Eastern Africa Sub-Region	All countries and territories of ECA-Eastern African Sub-Region.	U.N./I.M.C.O. Conference on International Container Traffic to be held in February 1974
Conference on Code of Conduct for Liner Conferences	Interested Member States of ECOSOC	To prepare a convention or any other legally binding instrument on a code of conduct for liner Conferences.	Plenipotentiary Conference held in Nov./Dec. 1973. Agreement not expected before end 1974.

Sub-regional office
of ECA in Lusaka/
ECA/Governments
involved

- (a) Prepare an up-to-date survey
of transport facilities in
countries of the area with a
view to improve productivity
and to strengthen intercountry
links.
- (b) To assist in negotiations to
set up multinational shipping
lines for maritime and inland
water transport.

ECA/Governments
involved.

Durations not
known yet.

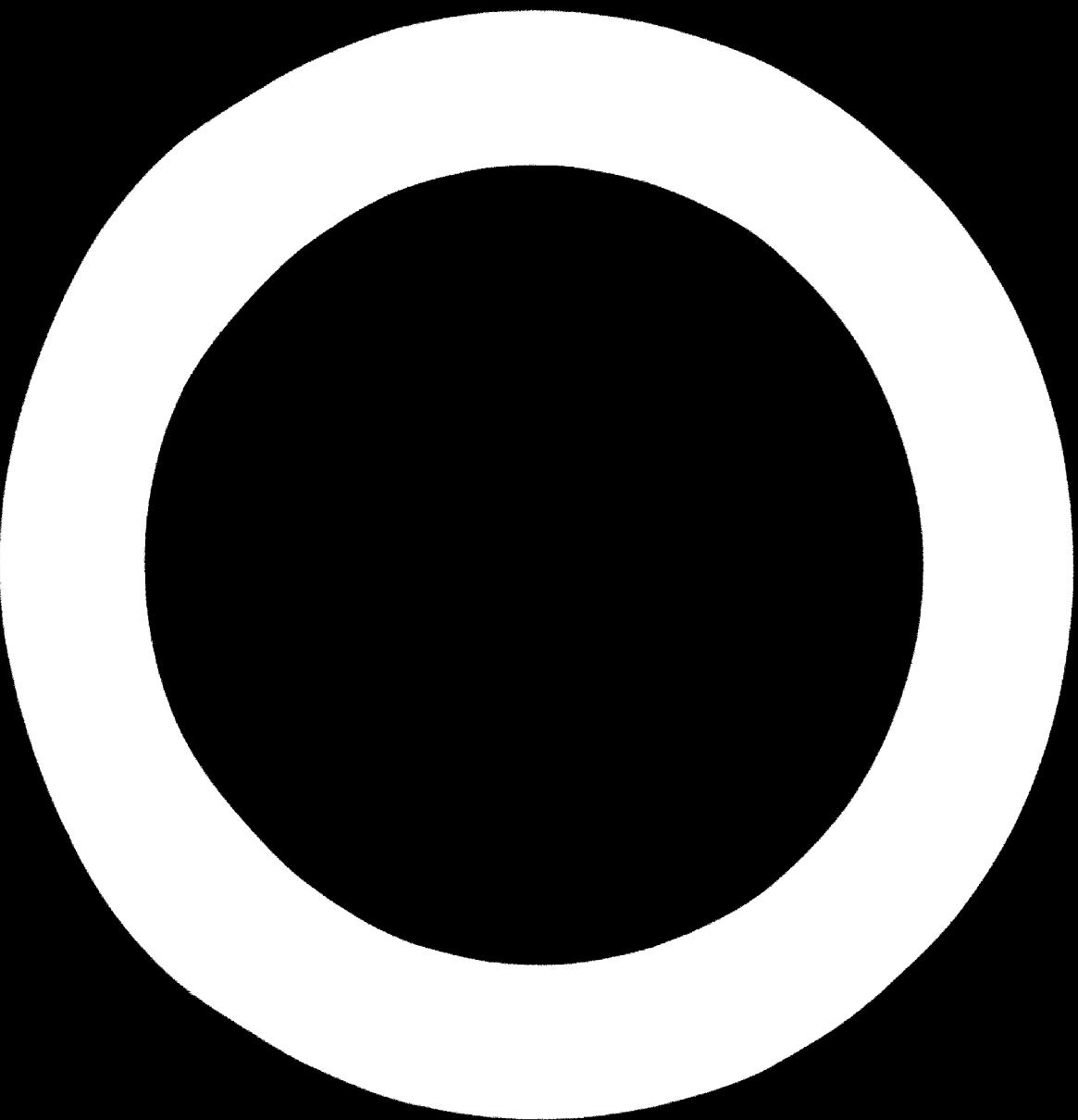
Botswana, Kenya,
Lesotho, Malawi,
Madagascar,
Zambia, Somalia,
Swaziland,
Tanzania, Uganda.

Work to start
early 1974.

Duration not
known yet.

East African Community
Common Market and Economic Affairs Secretariat
Lusaka

November, 1973



INDUSTRIAL AREAS SHADED

CHART NO 3

AFRICA - EAST COAST
KENYA

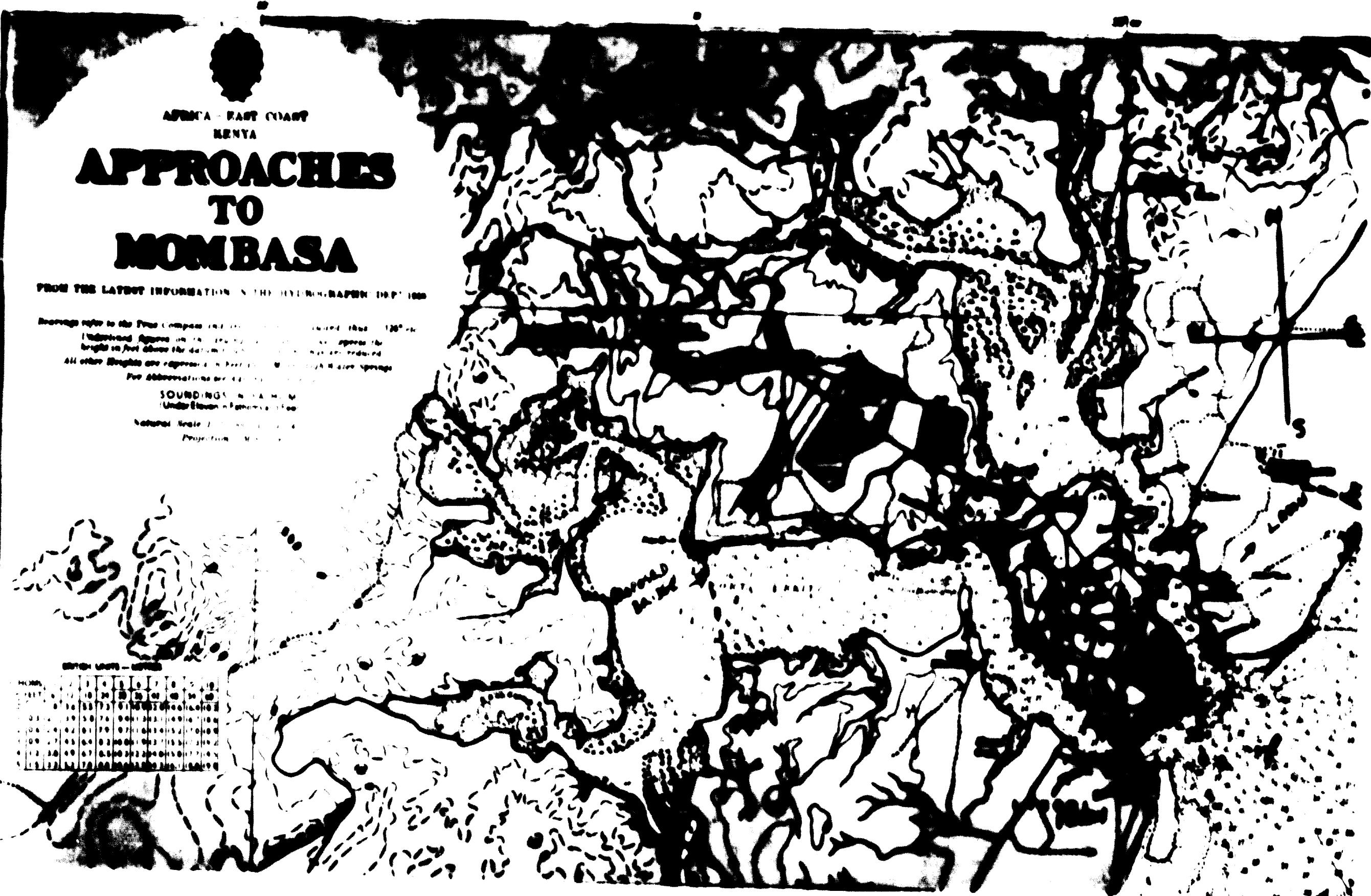
APPROACHES TO MOMBASA

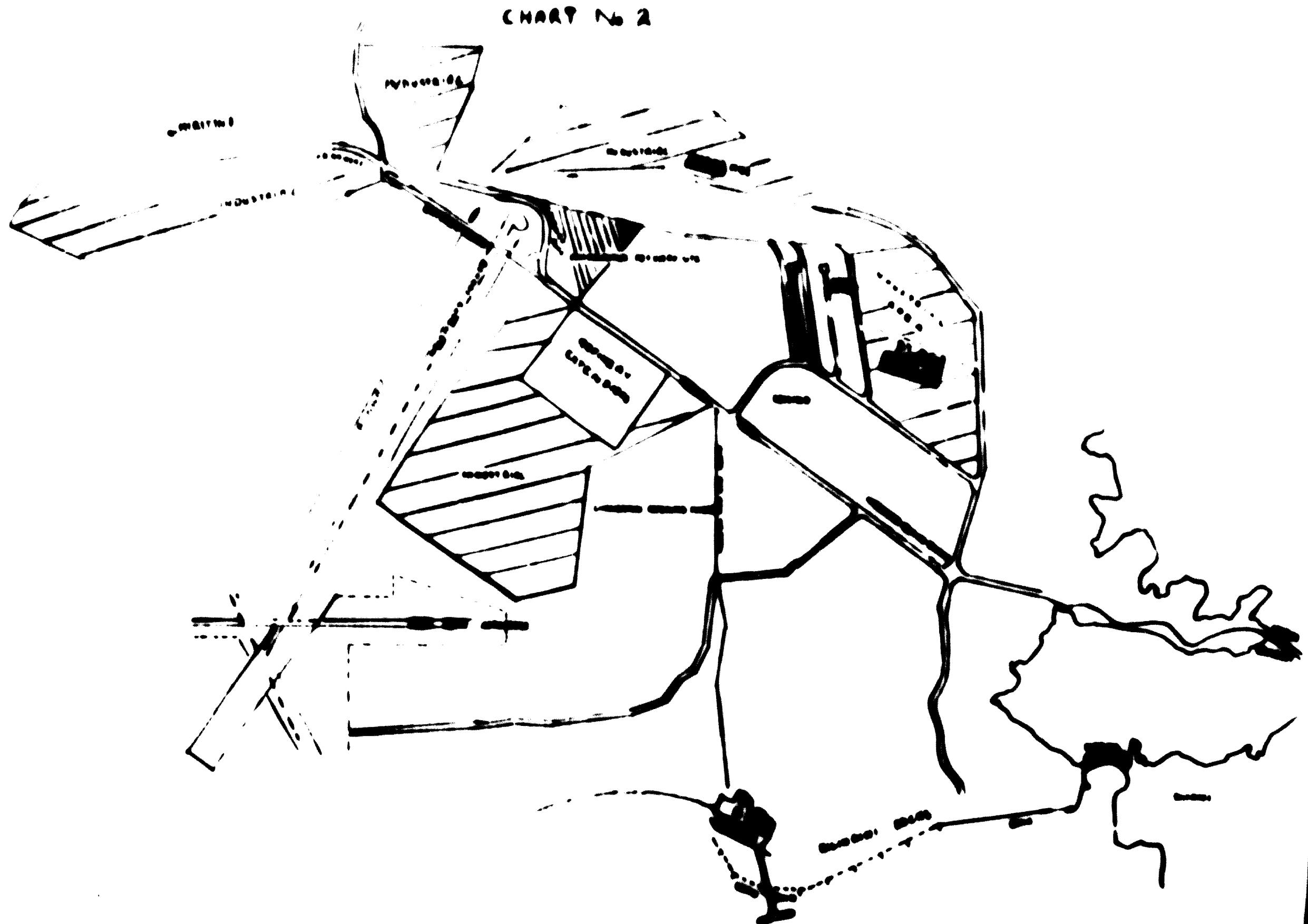
FROM THE LATEST INFORMATION IN THE HYDROGRAPHIC DEPARTMENT

Bathymetric note to the Pilot Computer: The bathymetry is based on 120° of
Undersea Survey in 1950-51. The depth contours appear to
be more reliable than the bottom heights which have been reduced.
All other heights are expressed in feet from the same level as the sea-surface.
For observations see chart notes.

SOUNDINGS IN FATHOMS
(Undersea Survey 1950-51)

Bottom Scale: 1:100,000
Projection: Mercator





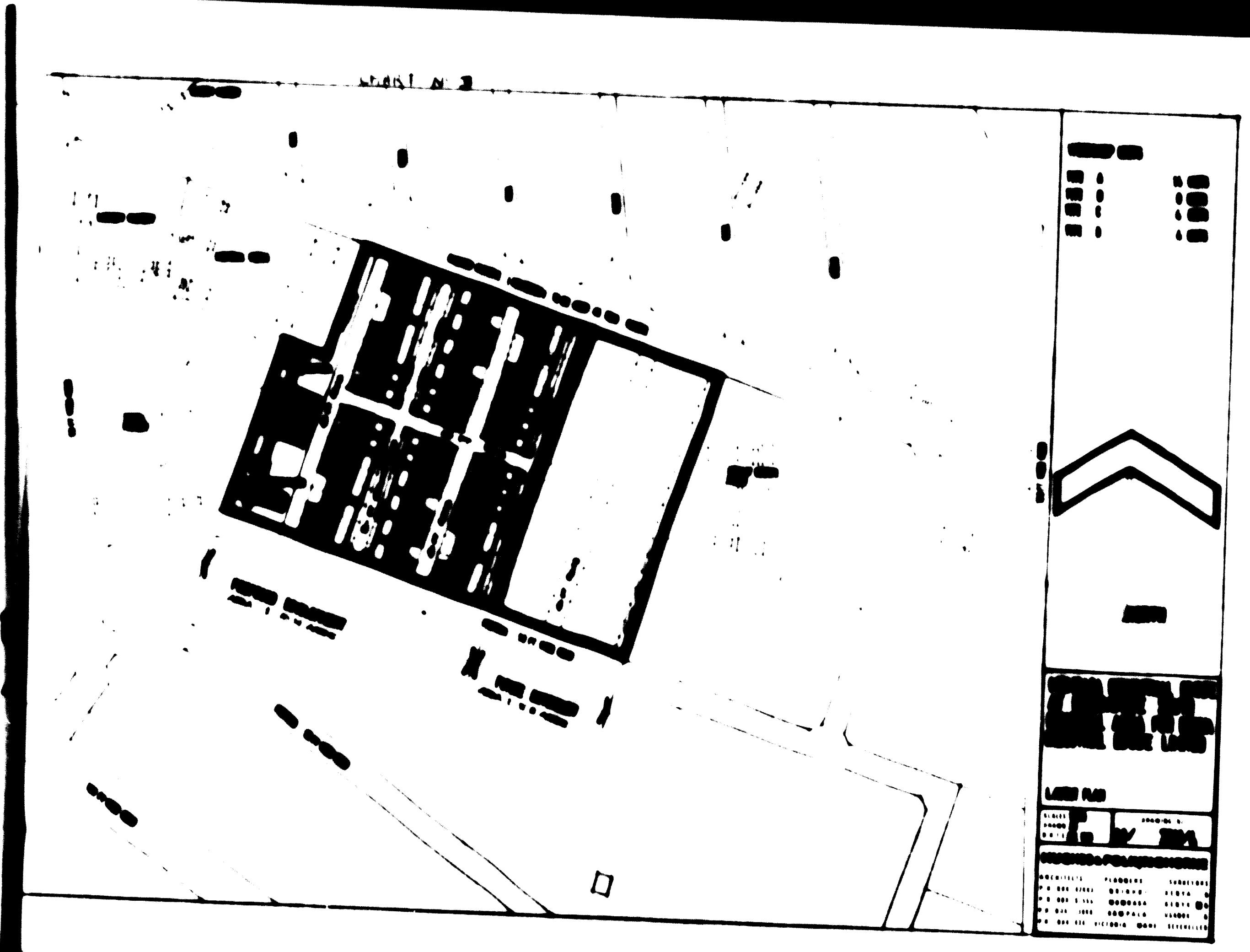
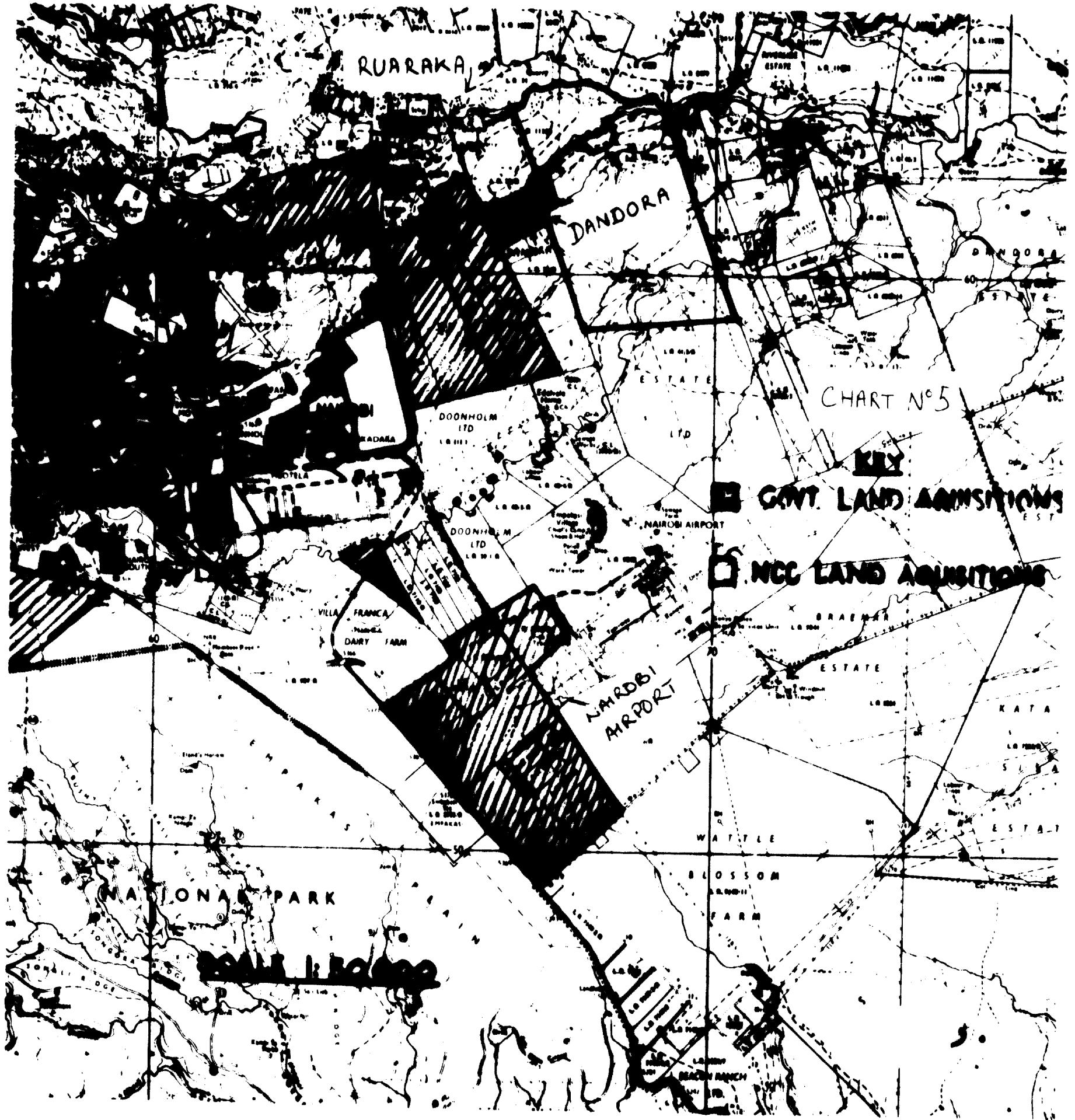
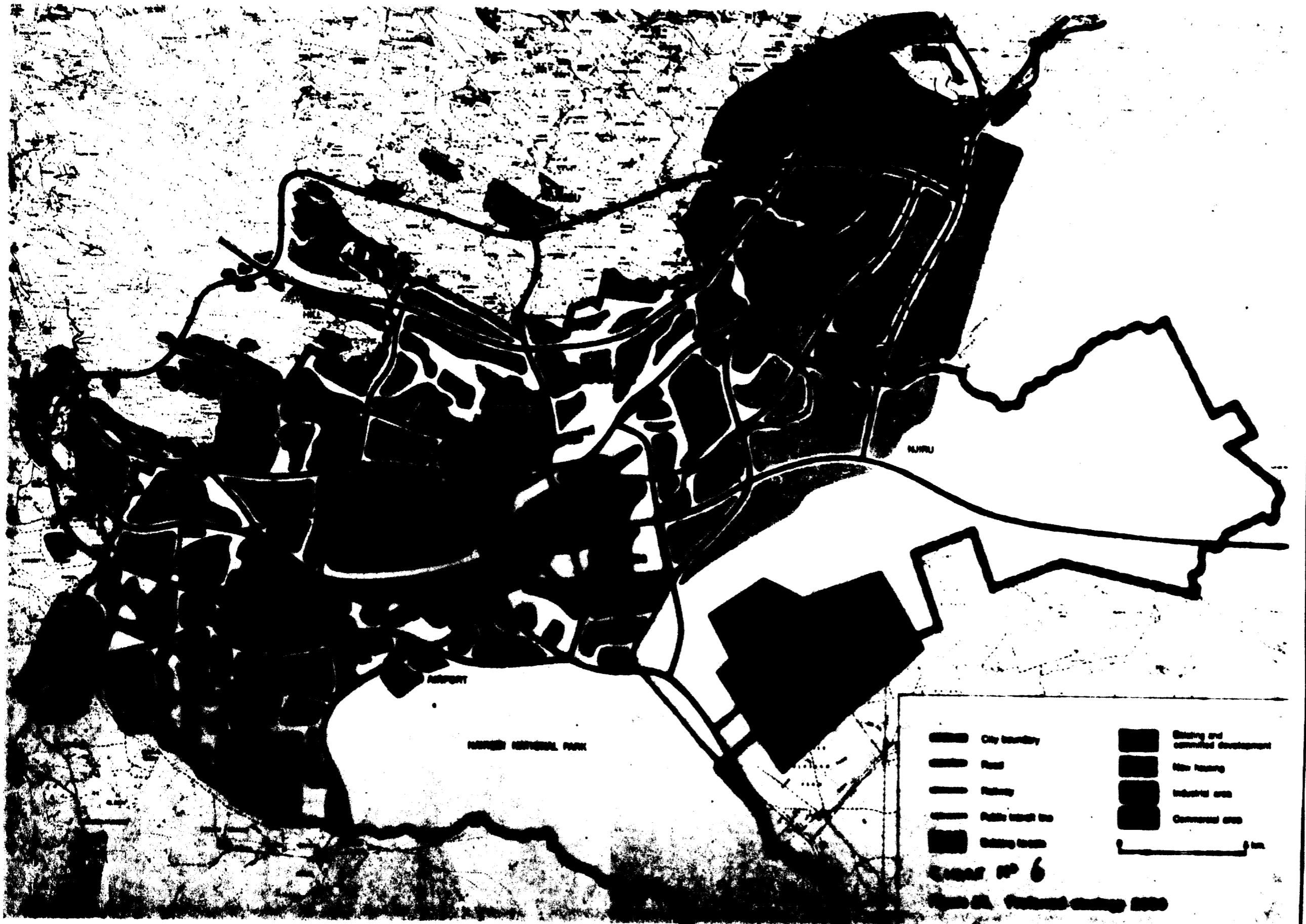
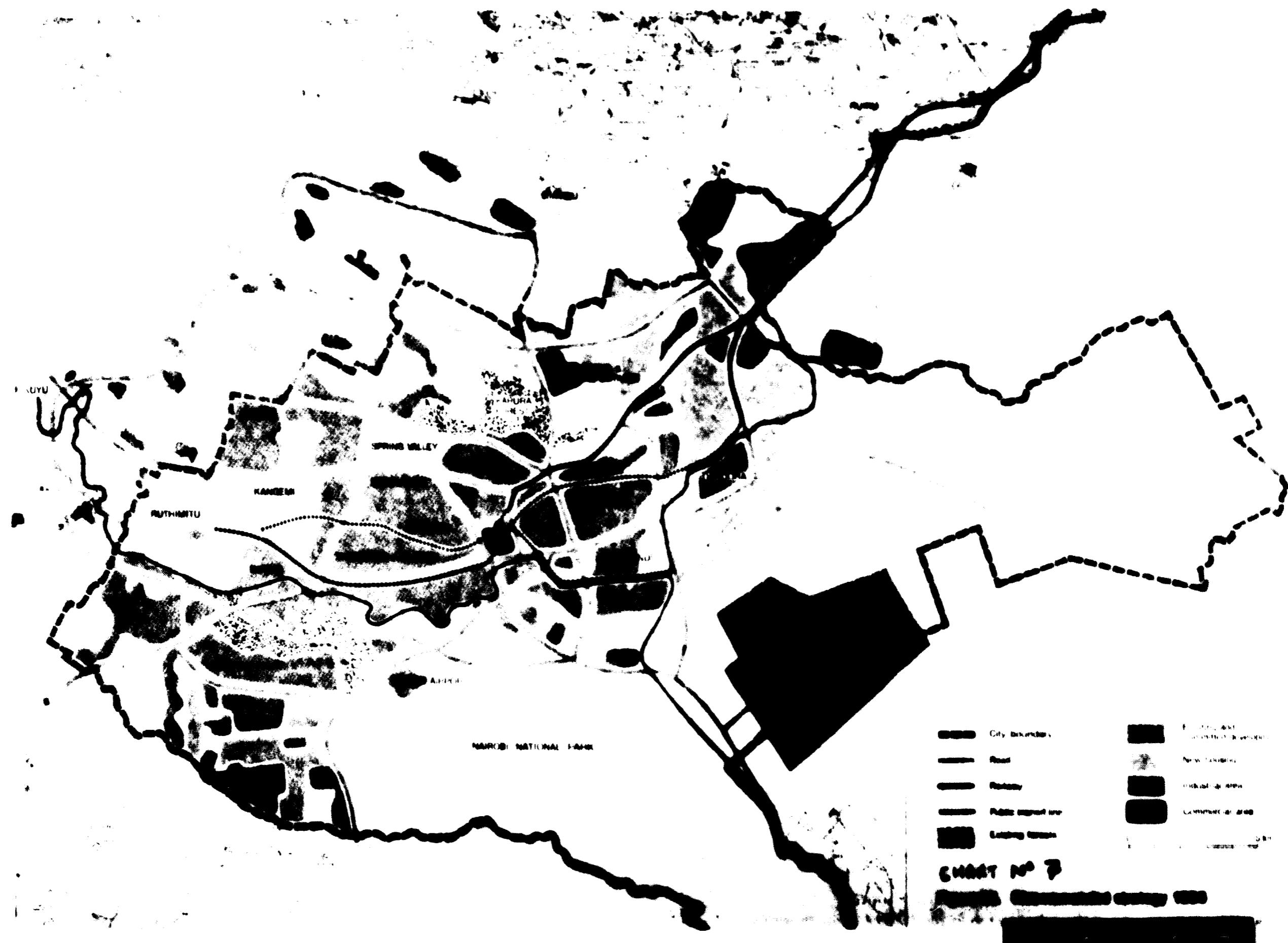


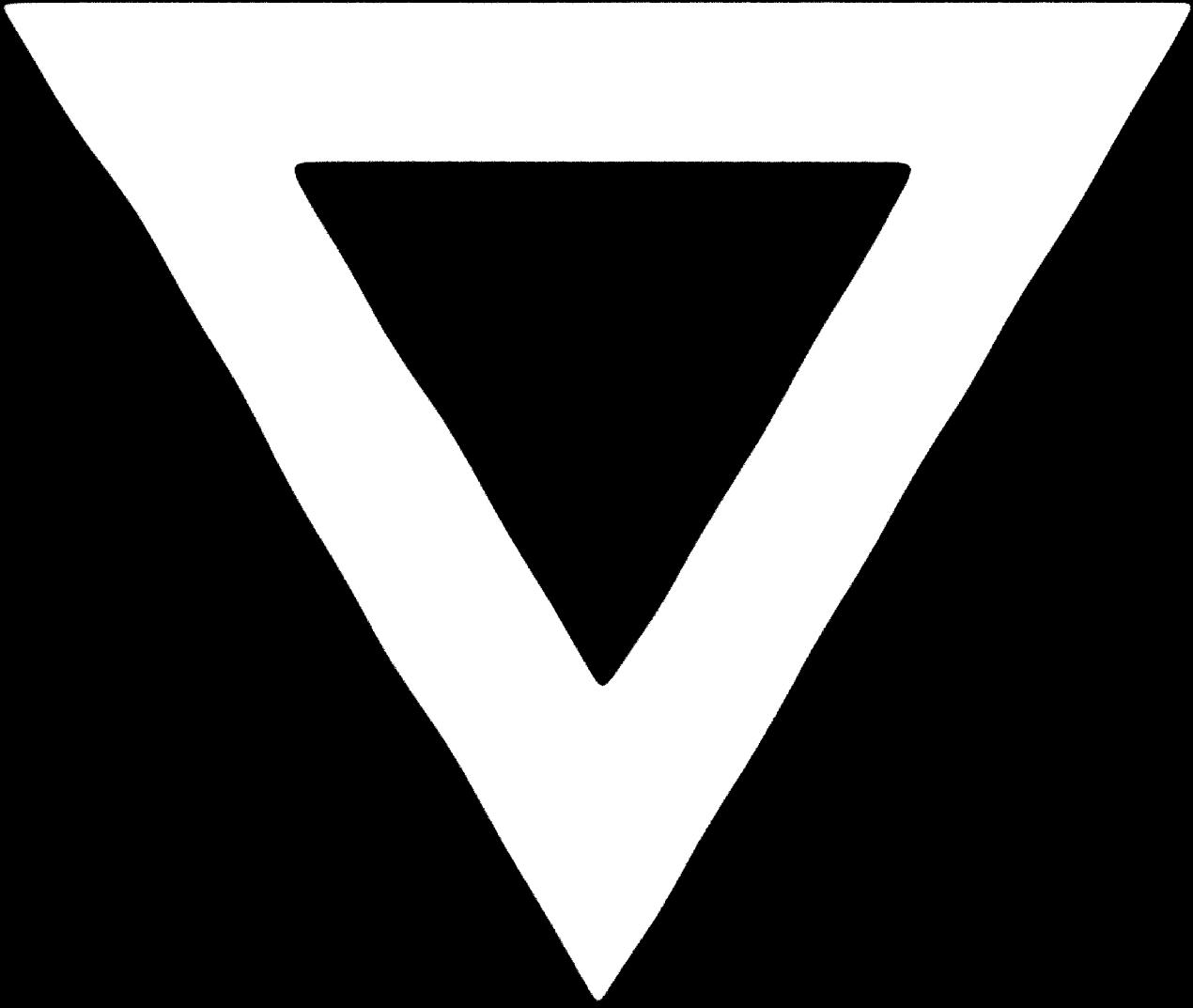
CHART N° 4











76. 06. 29