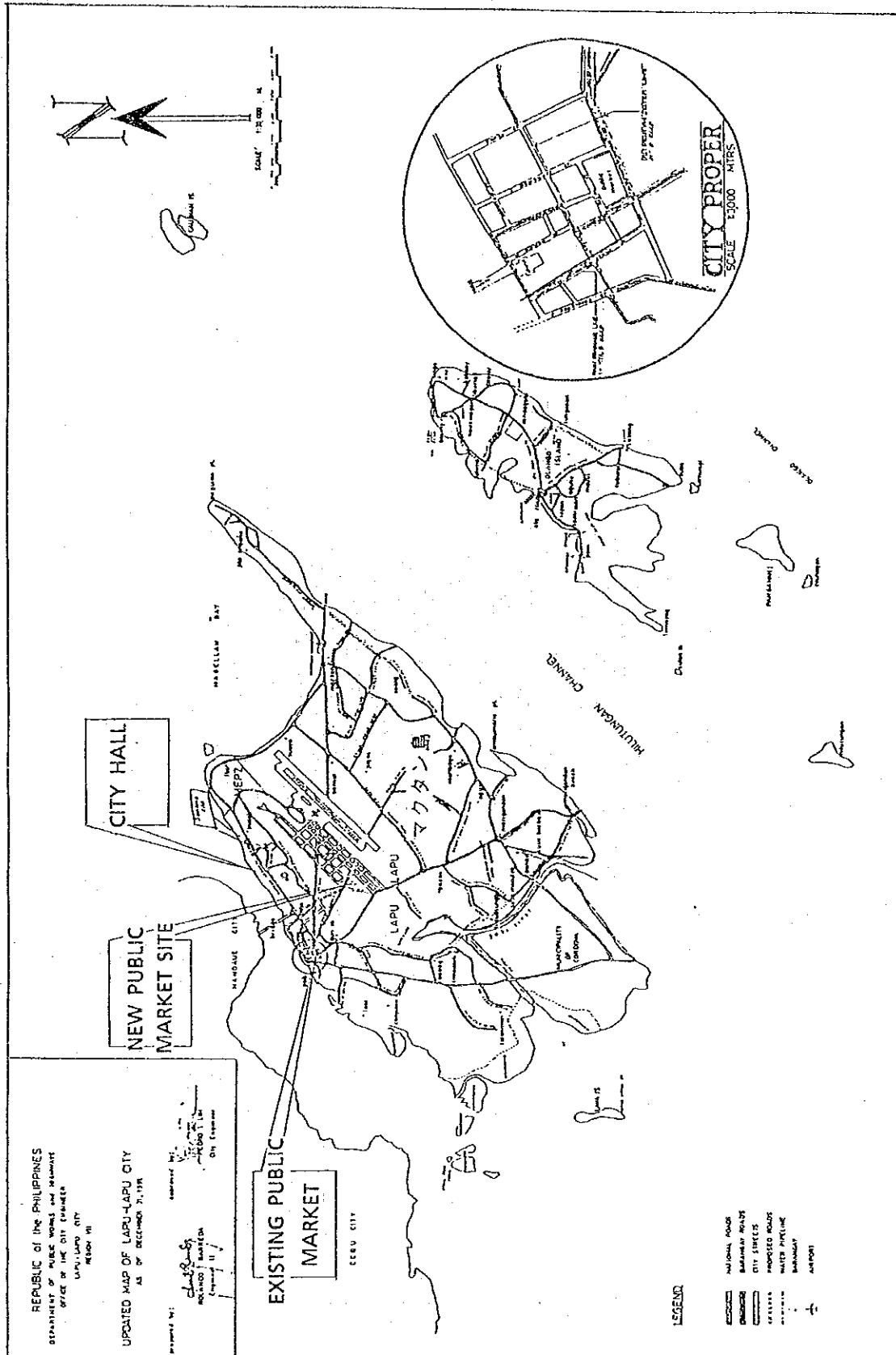


- ③ The existing market is located in Poblacion in the city center and the accessibility of the facilities is a great asset, but the market including 792 stores of various kinds is extremely congested and conditions are unhygienic. In addition to this, there was great damage inflicted by the 1990 typhoon, and the market has continued operating with hardly any repairs being made. Over 500 road side stalls are set up on the roads in the surrounding area on Sunday, which is market day, and the worsening environment of not just the market, but also of the surrounding area has become increasingly serious.
- ④ Lapu-Lapu City is being pressed by the requirement to urgently expand the scope of the current market by a factor of two, in order to cope with the swelling population that accompanies development work.

Fig. 3 - 1 - 3: Site location map and sketch map of the surrounding area for the new market, showing the area surrounding the existing Mactan Island market, the site of the new market and city hall, Lapu-Lapu City.



NEW SITE PRESENT STATE ① LAPU-LAPU PUBLIC MARKET



PUBLIC MARKET NEW SITE

PUBLIC MARKET NEW
SITE FRONT ROAD



EXISTING PUBLIC MARKET PRESENT STATE ① LAPU-LAPU PUBLIC MARKET

EXISTING PUBLIC MARKET FRONT ROAD



FRONT ROAD VIEW FROM EXISTING PUBLIC MARKET



EXISTING PUBLIC MARKET APPEARANCE



**EXISTING PUBLIC
MARKET INSIDE**



**EXISTING PUBLIC
MARKET INSIDE**



**TEMPORARY STORE
INSIDE**



2) Car-Car Town

CarCar town is located 40km south of Cebu, in about the center of the eastern coast of Cebu Island. The current population as of 1991 is 70,841 people, with a population growth rate of 2.6%. CarCar Town has a land area of 96km². with two-thirds of this being agricultural land. The produce of these farms is mainly dry-land rice and maize, and production capability is low. Apart from this, there is no major industry except for a small scale concrete plant and ship-building yard.

In CarCar Town the Poblacion market is the main public market place. This market consists of 96 stores which deal in fresh fish, meat, vegetables, fruits, processed fish, cereals, daily necessities, and so forth.

● Current Conditions

The existing market was constructed in 1947 and has been expanded many times since then. In addition to the advanced dilapidated state of the original building, the condition of the building has been further worsened by typhoon damage. There are also problems of inadequate drainage and solid waste treatment problems within the market, so improvements on the hygiene front are also pressing.

There are six buildings lined up beside each other on the 1.2ha site. All the building were constructed at different times, so there is no uniformity in the construction specification and structure of the buildings. The reconstruction of the three wooden buildings in the center of the market and the construction of an administration building were requested as the work to be carried out in this project. The damage to these buildings is particularly noticeable due to the weathering of the independent foundations. The entire site is low lying, and flooding is a greater problem than rain and wind from typhoons. It can be considered that all of the buildings suffer the effects of the typhoons which have struck recently. Drainage within the compound is through a system of open drains and waste water drains have been made, but the drainage conditions of the site are not good. The Government of the Philippines has requested that the site be built up, but there are buildings remaining on the site that will not be reconstructed so it will be difficult to build up the entire site. The foundations of the newly constructed buildings will be raised and it will be necessary to pay attention to improving drainage at the same time. Currently, sewage, which has been discharged as waste water, flows from the drains around the edge of the market into the

surrounding fields, hindering rice cultivation. Furthermore, there is a temporary slaughter house in a corner behind the market, and sanitary conditions of this area are particularly bad. The relocation of this slaughter house at the time the market is repaired has become an important subject. The city planned to relocate the slaughter house, and as they were about to commence construction the Department of Interior and Local Government indicated that the site for the relocation was unsuitable, and a new relocation site was prepared. As there are still residents living in the site and the site for the residents to relocate to is still being prepared, time and money will be required to undertake site preparation work while these proceedings are being carried out.

- **Problem Points and Observations**

It is hoped that the current conditions can be greatly improved by reconstruction of the dilapidated buildings and by improving drainage within the compound. However, improving the sanitary conditions of the slaughter house within the complex will be a bottleneck, and it will need to be promptly relocated. The open site of the former market, which was used before the market relocated to its existing location, can be used as a temporary relocation site for the stores during the construction period. The conditions are good for a temporary relocation site.

- ① On top to the extremely dilapidated state of the market constructed in 1937, there is severe damage caused by typhoon "Ruping" which struck in 1990, that still has not been repaired.
- ② The 96 stores are currently operating in unhygienic conditions due to many causes such as inadequate drainage, unsuitable solid waste treatment methods and the outdoor slaughter of animals performed in the area around the market.
- ③ The city has meager financial resources and does not have sufficient surplus to be able to repair the public facilities or construct new ones, so there is absolutely no hope for improvement to the current conditions before the project is implemented.

Fig. 3 - 1 - 5: CarCar Town, sketch map of the surrounding area and site location map, showing the market site and the slaughter house site plan.

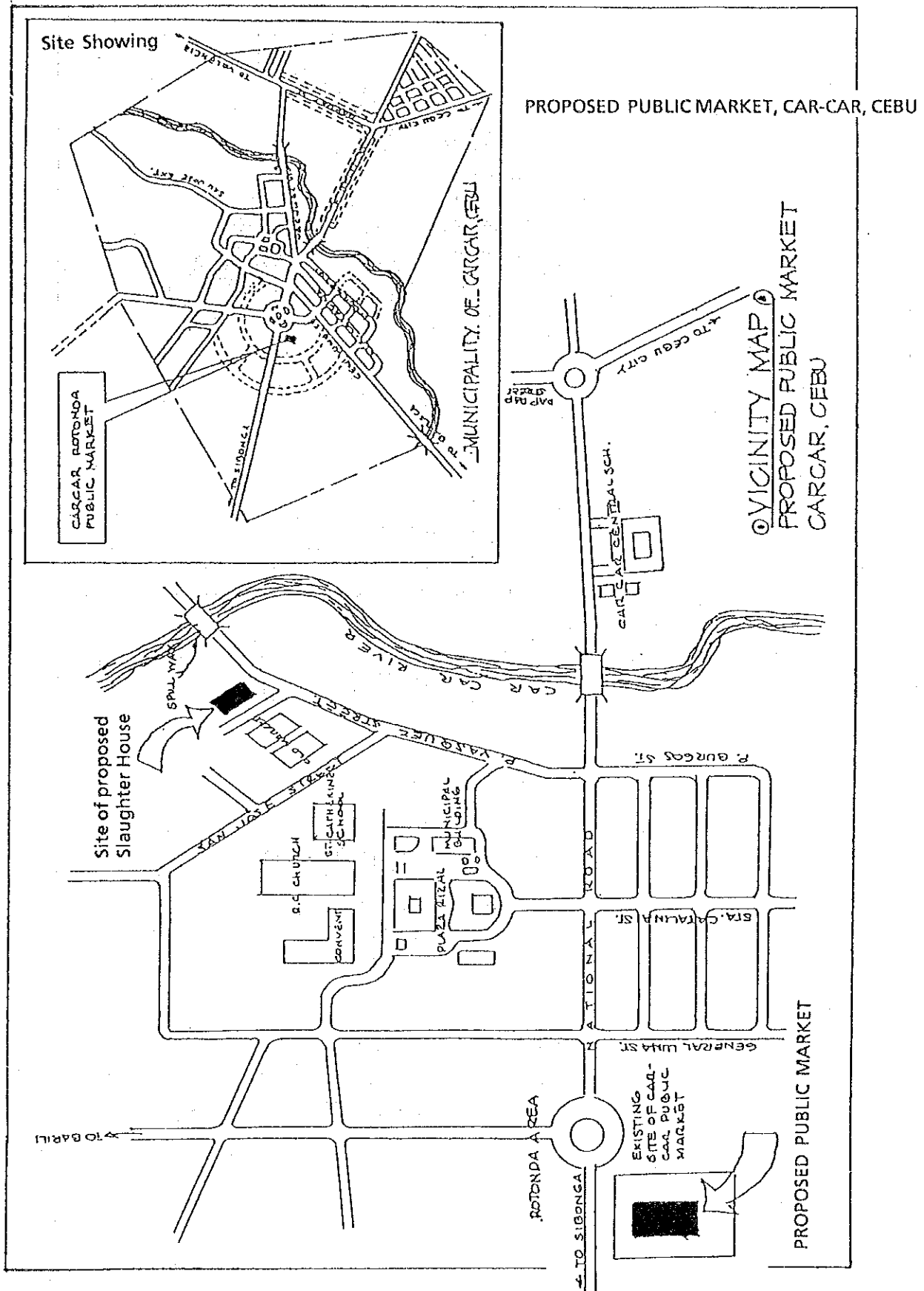
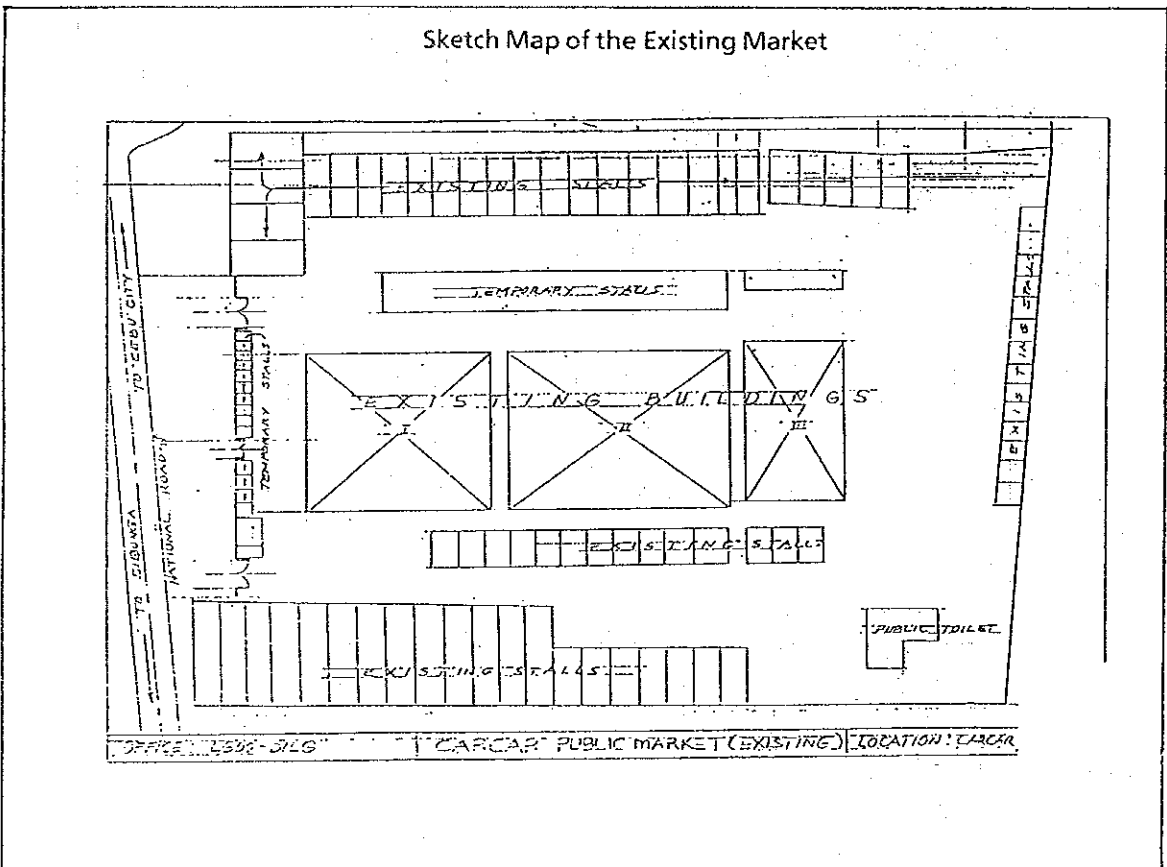
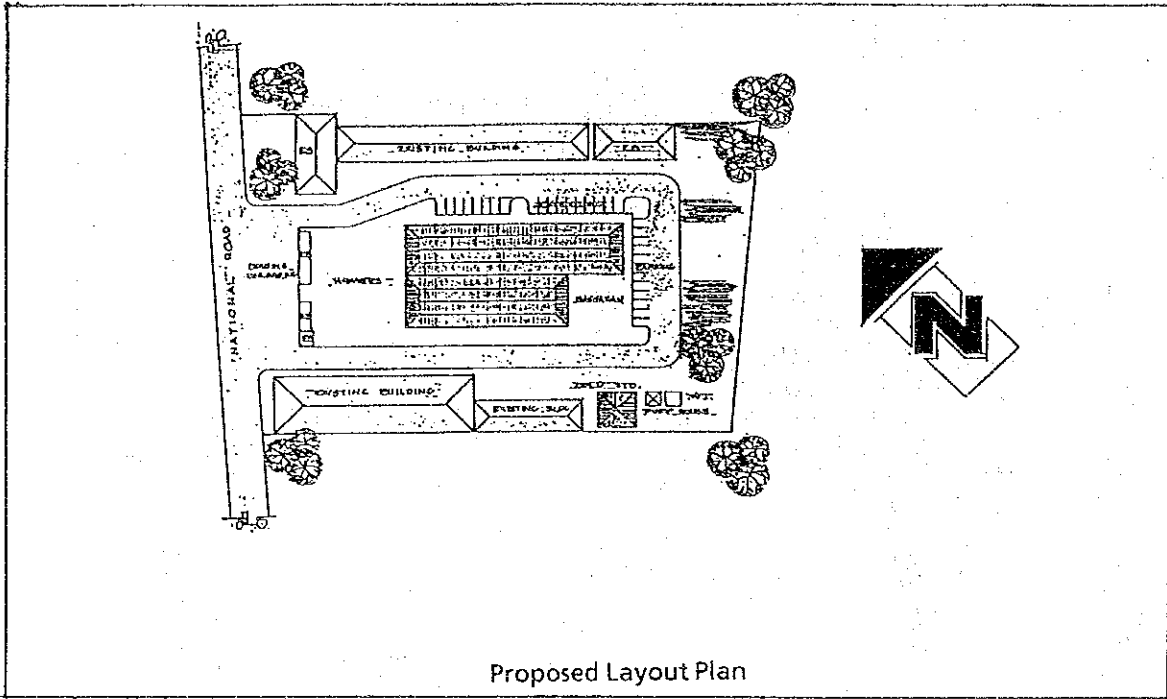
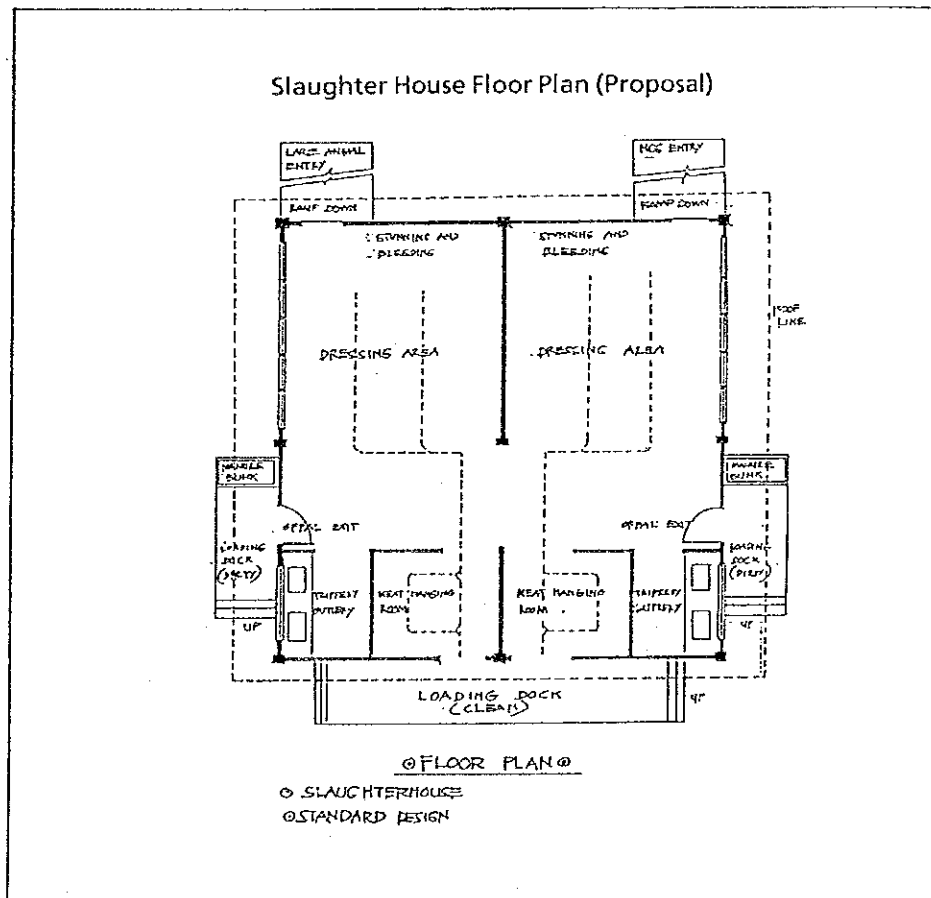
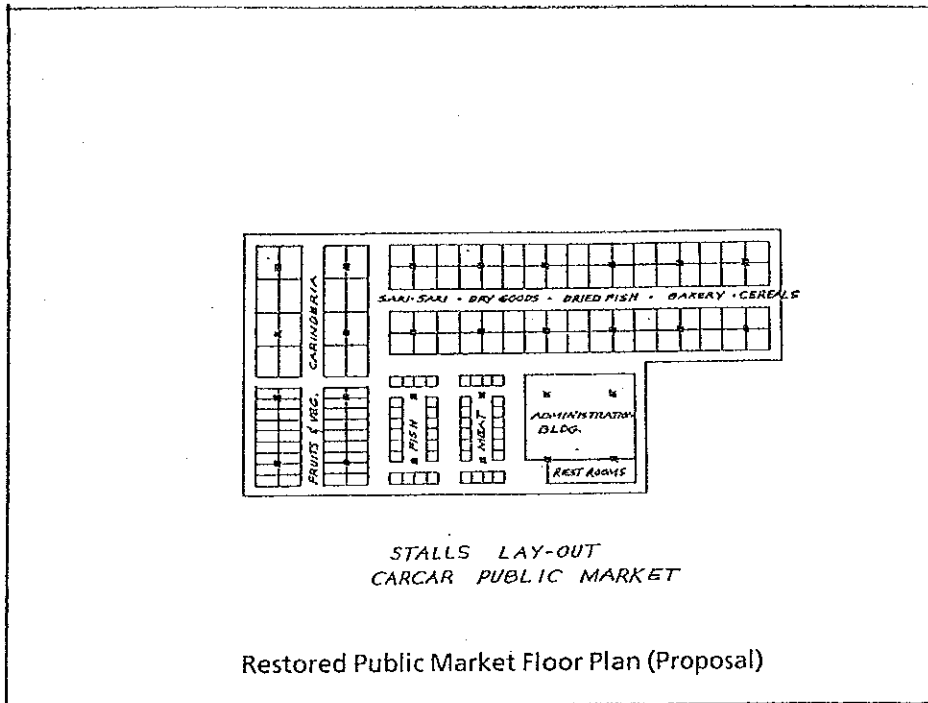


Fig. 3 - 1 - 6: CarCar Town, sketch map of the existing market, proposed layout



CARCAR TOWN, FLOOR PLAN OF THE PROPOSED SLAUGHTER HOUSE



SITE, PUBLIC MARKET PRESENT STATE CARCAR PUBLIC MARKET

EXISTING PUBLIC
MARKETS FRONT
ROAD



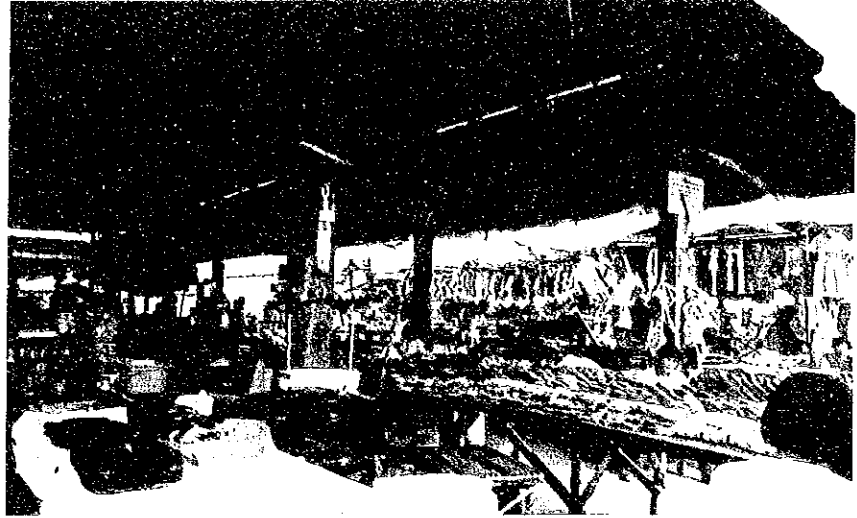
INSIDE PUBLIC
MARKET SITE



A PART OF REPAIR
BUILDING



REPAIR BUILDING'S
INSIDE



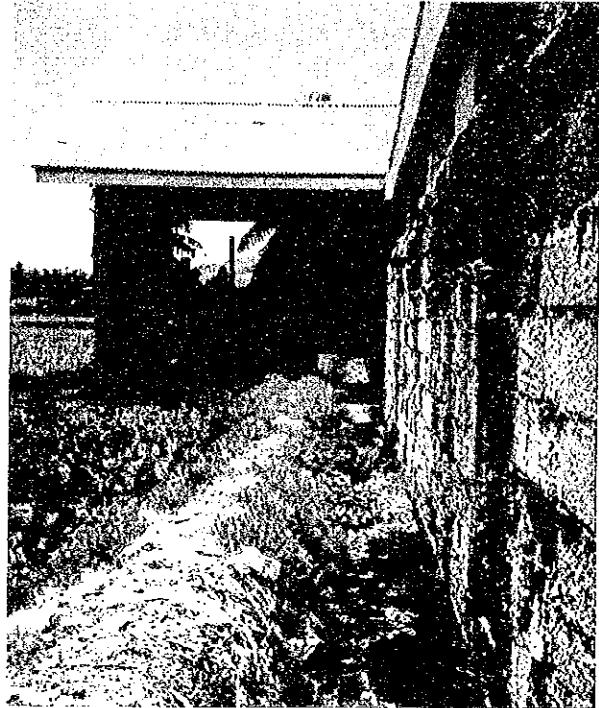
REPAIR BUILDING'S
INSIDE



DRAINAGE GUTTER



**SURROUNDING SITE'S
DRAINAGE ROAD**



**NEW SITE OF
SLAUGHTER HOUSE**



**NEW SITE OF
SLAUGHTER HOUSE**



3) Danao City

Danao City is located 33km north of Cebu on the eastern coast of Cebu Island. The population is 73,358 and the population growth rate 2.5%, according to 1990 official statistics. The major industries are agriculture, fisheries and livestock raising. 40% of the labor force is engaged in manufacturing or industry. Major industries are mining and quarrying. Cottage industries such as ceramics, fibercrafts, shellcraft, wood and metalcraft are also major employers. This city is blessed with good scenery, so it is predicted that development, including tourism, will progress even further in future by encouraging all manner of industries to set up in the area.

The public market place in Danao City is currently located on a 1ha site in the center of the commercial district. The market consists of 300 stores which deal in mainly fresh fish, meat and poultry, fruits and vegetables, cereals as well as daily necessities, miscellaneous items, clothing and so forth. The agricultural products, daily necessities, miscellaneous items, clothing, etc. are mainly sourced from Cebu City, while the fresh fish is chiefly sourced from the city and surrounding ports.

● Existing Market

The existing market was constructed during the 1960's, and since then the existing site has become cramped and the congestion has become especially bad in recent years, due to the rate of population growth since the market was built. In addition to this, the market suffered severe damage from typhoon "Ruping" in 1990. A section of the market was repaired at the city's expense, but this did not cope with the problems of dilapidation and chronic congestion, so the public market will be relocated to a larger site, in order to try to make comprehensive improvements to the market. There are ideas that the open site remaining after the market has relocated should be redeveloped as a commercial district or a municipal park, but no plans have been decided. It is predicted that development plans will be created in conjunction with the operating plan for the new market.

The existing market is located in the commercial district in the heart of the city, and there are 300 stores and 600 temporary stalls on the 1ha site. On Sunday, which is market day, road side stalls overflow into the middle of the roads. Typhoon damage can be seen on the roofs of the surrounding buildings and two stores within the market collapsed and

have not been repaired. Drainage facilities within the compound are open systems, but drainage is inadequate and there are hygiene problems as there is hardly any difference between the height of the floor and the road surface. The slaughter house is located on the face side of the market separated by the road. There is no administration office in the center of the market, and the city hall cashiers department is directly in charge of collecting money. The market tax revenues in 1990 were 950,000 pesos and the expenses were 730,000 pesos.

- **New Site**

A 2.0ha to 3.6ha piece of land has been prepared at a location 300 to 400 meters away from the existing site. Sections of the site are low lying, and it looks like land filling of up to a maximum of 1.0m will be required. Under an agreement with a golf course, which is being constructed in the suburbs, left over earth will be transported to the site for use as land fill. The land filling work will be completed shortly.

There are 37 families of residents still living on the site, but the relocation of residents in the area planned for the market construction has been completed.

Water works construction is currently being undertaken on a gravity powered water supply system, which will also be used to supply water to the new site. Drainage water, possibly in raw form, will flow into the small river which runs along side the new site.

- **Problem Points and Observations**

The necessity for the construction of a new market can be easily justified from the conditions of the existing market. Since the site preparation work has already commenced for the construction of the new market place and the relocation of the residents has been completed, no major obstacles to the implementation of this project can be seen. However, redevelopment plans for the existing site after the existing market has been relocated have not been completed, and the details of both plans in relevance to the new market should be carefully scrutinized.

- ① Numerous consumers, not just from Danao City, but also from the surrounding municipalities and islands, take part in the market day which is held on Sunday at the existing market. This market serves the function of a product collection and redistribution base, as well as acting as a distribution mechanism.

- ② The existing market is tenanted by 370 legitimate stores in a market building which was built completely occupying the 1 hectare site, making it extremely congested. Furthermore, numerous road side stalls inundate the inside and outside of the market on market day. Realistically, there is no space for expansion since the market is located in the heart of the city, making it an extremely urgent necessity to relocate the market.
- ③ The existing market suffered considerable damage from typhoon "Ruping," but numerous obstacles have arisen as operations have continued without adequate repairs being undertaken yet.
- (4) The public market place will be relocated to a larger site and it is planned that Danao City will redevelop the open site remaining when the existing market is moved. The details of the plan are undecided.

Notice: Proposal 1 (Fig.3-1-7), which was proposed before the on site survey.

Proposal 2 (Fig.3-1-9), which was proposed during the on site survey.

And the site for above two proposals is the same site.

Fig. 3-1-7: Danao City, Location map of the new market site (Proposal 1)

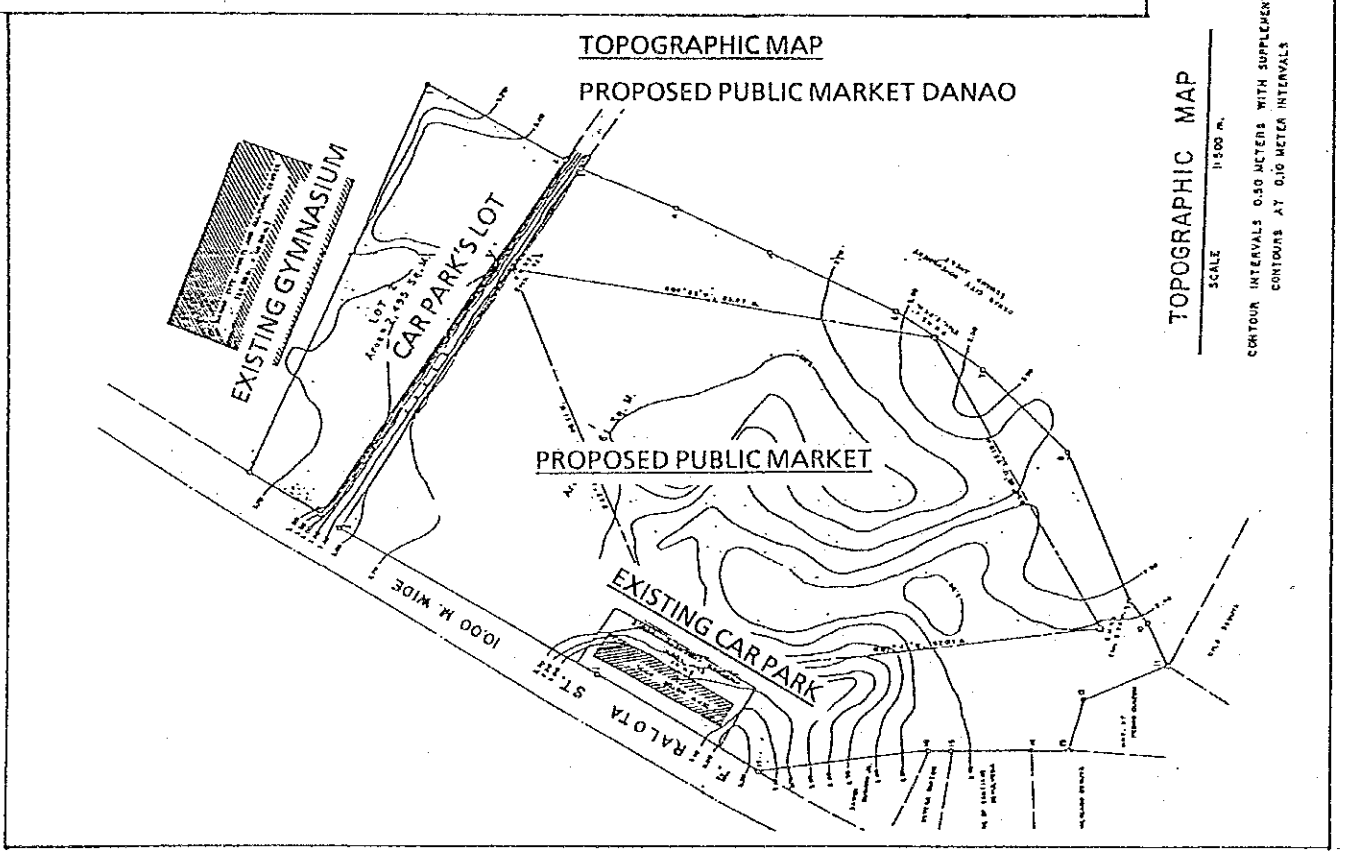
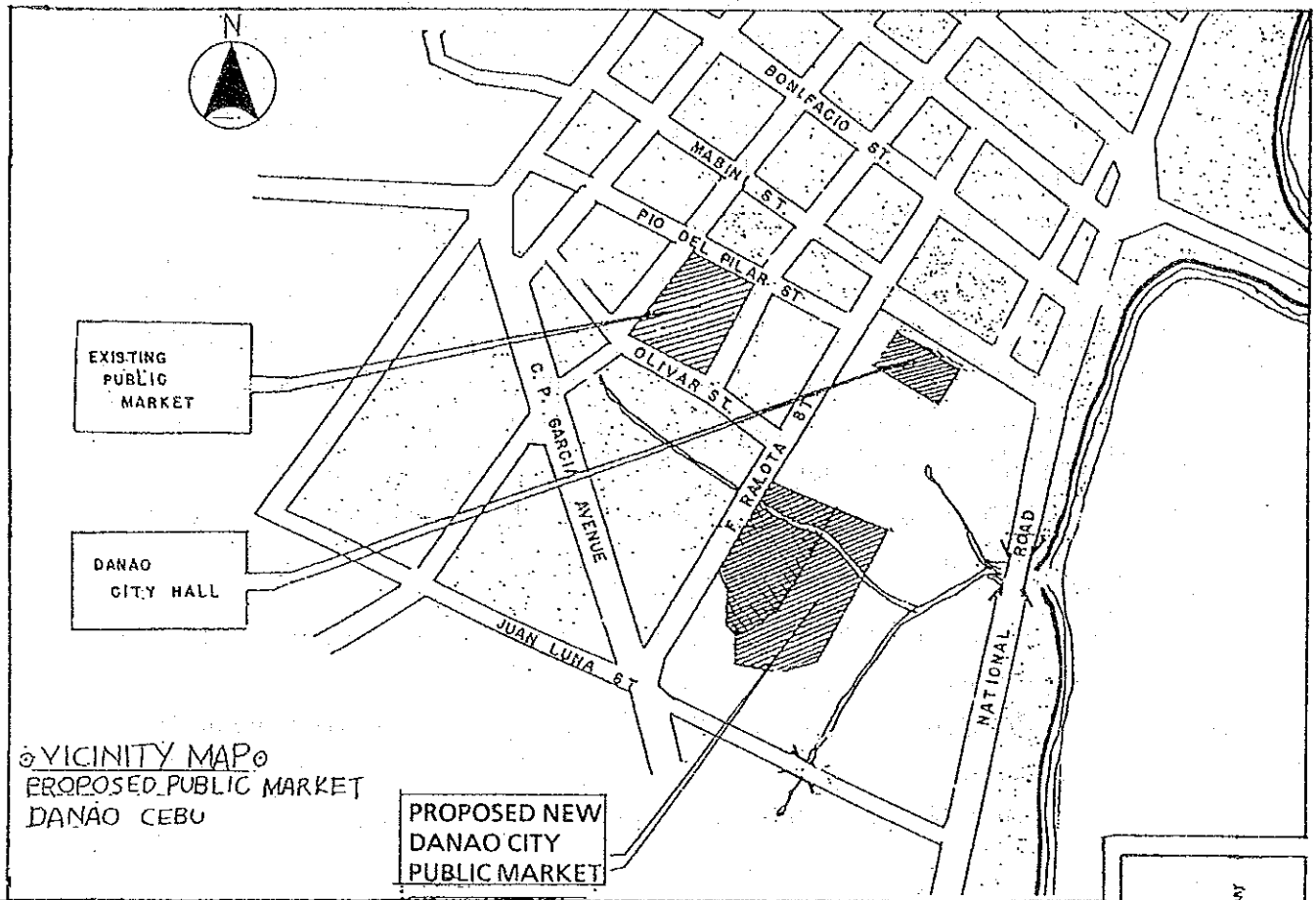


Fig. 3 - 1 - 8: Danao City, New market site, market layout plan, floor plan.
(Proposal 1)

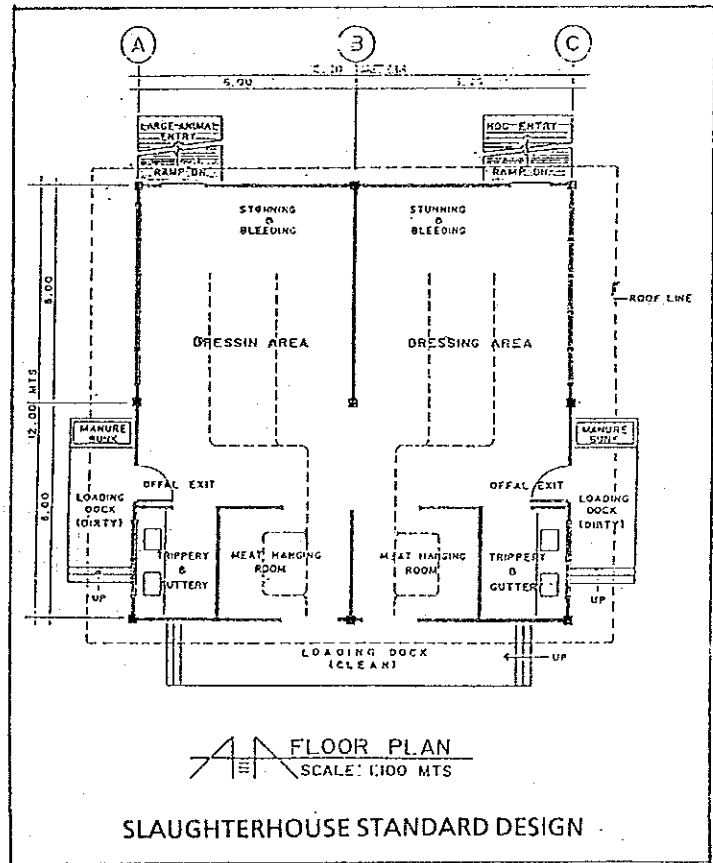
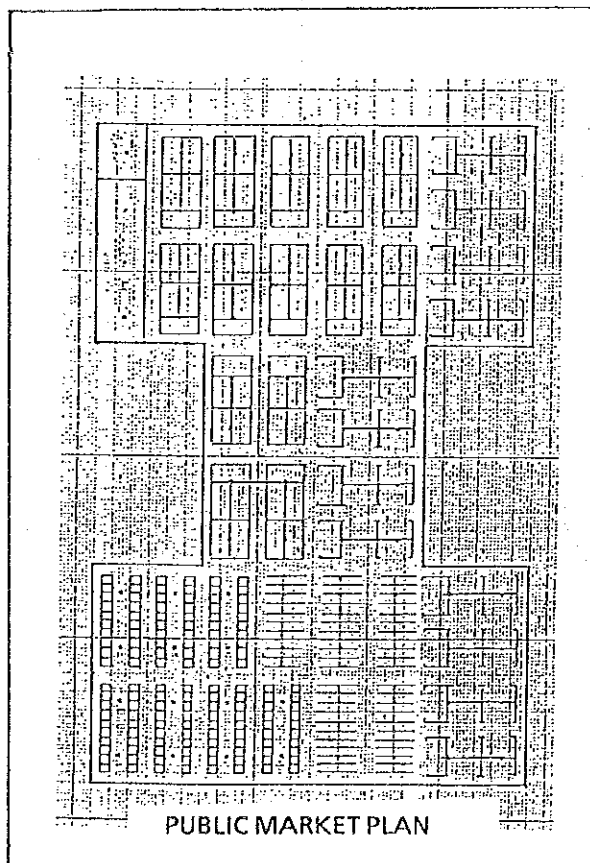
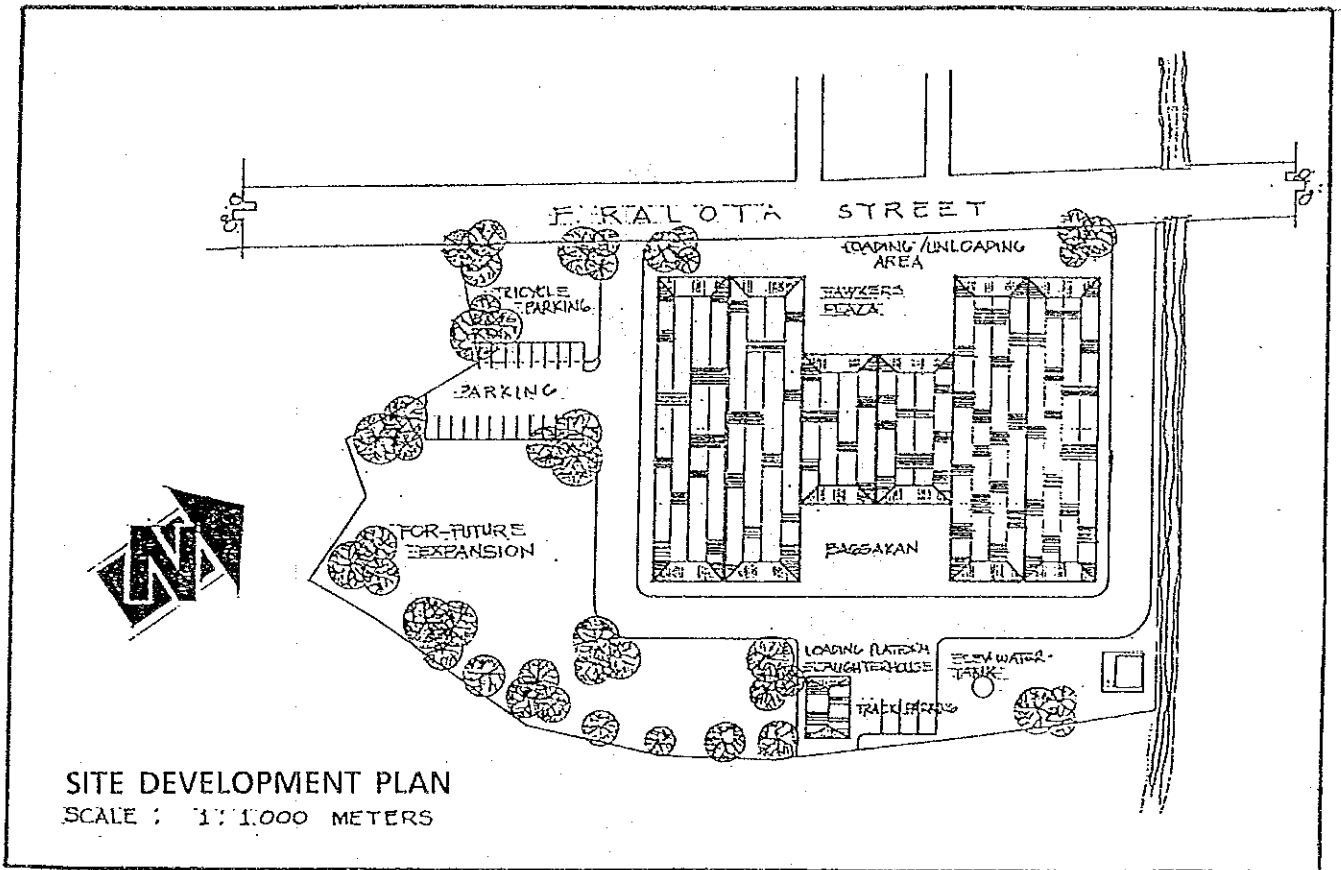


Fig. 3 - 1 - 9: Danao City, Sketch map of the area surrounding the new market, site map (Proposal 2).

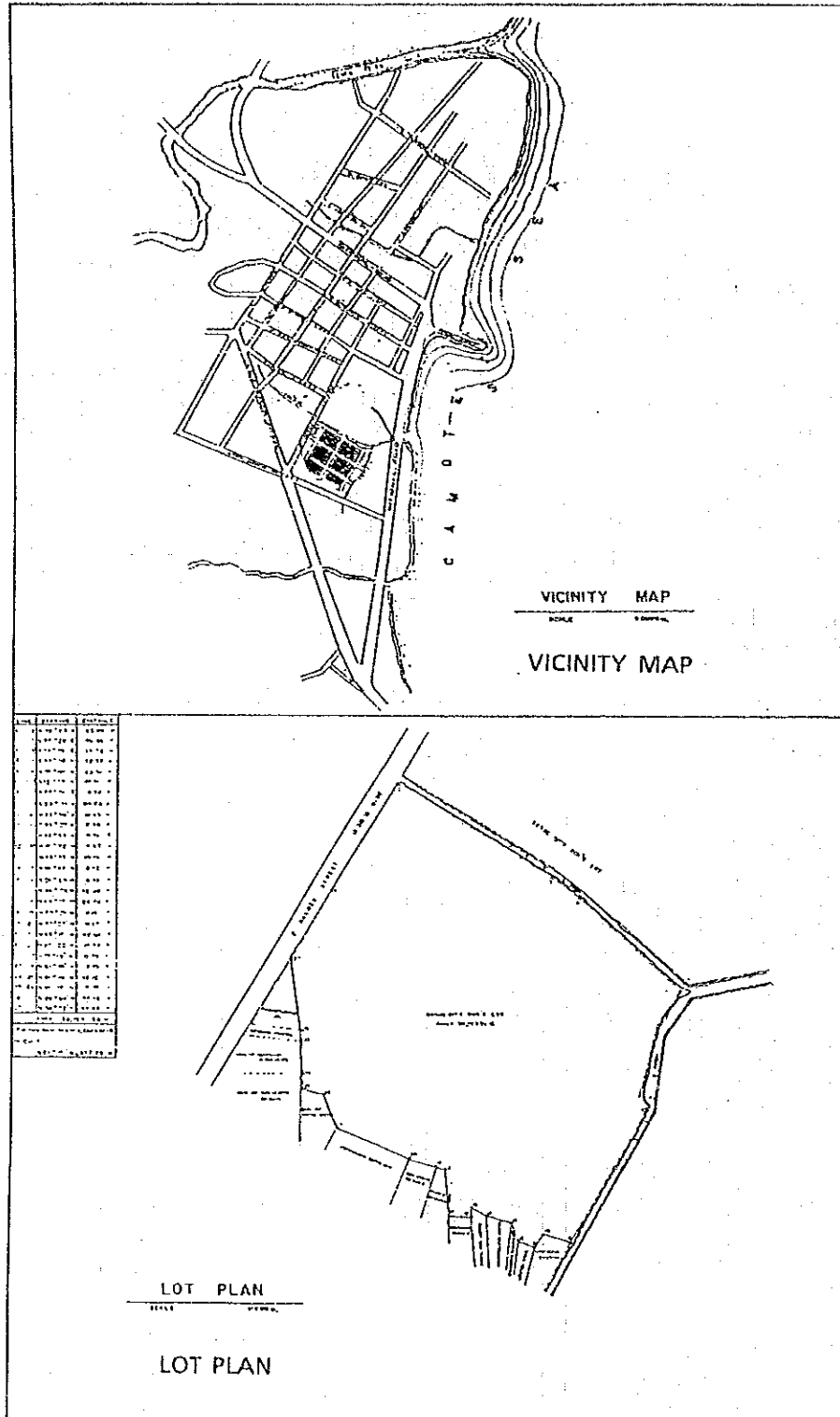
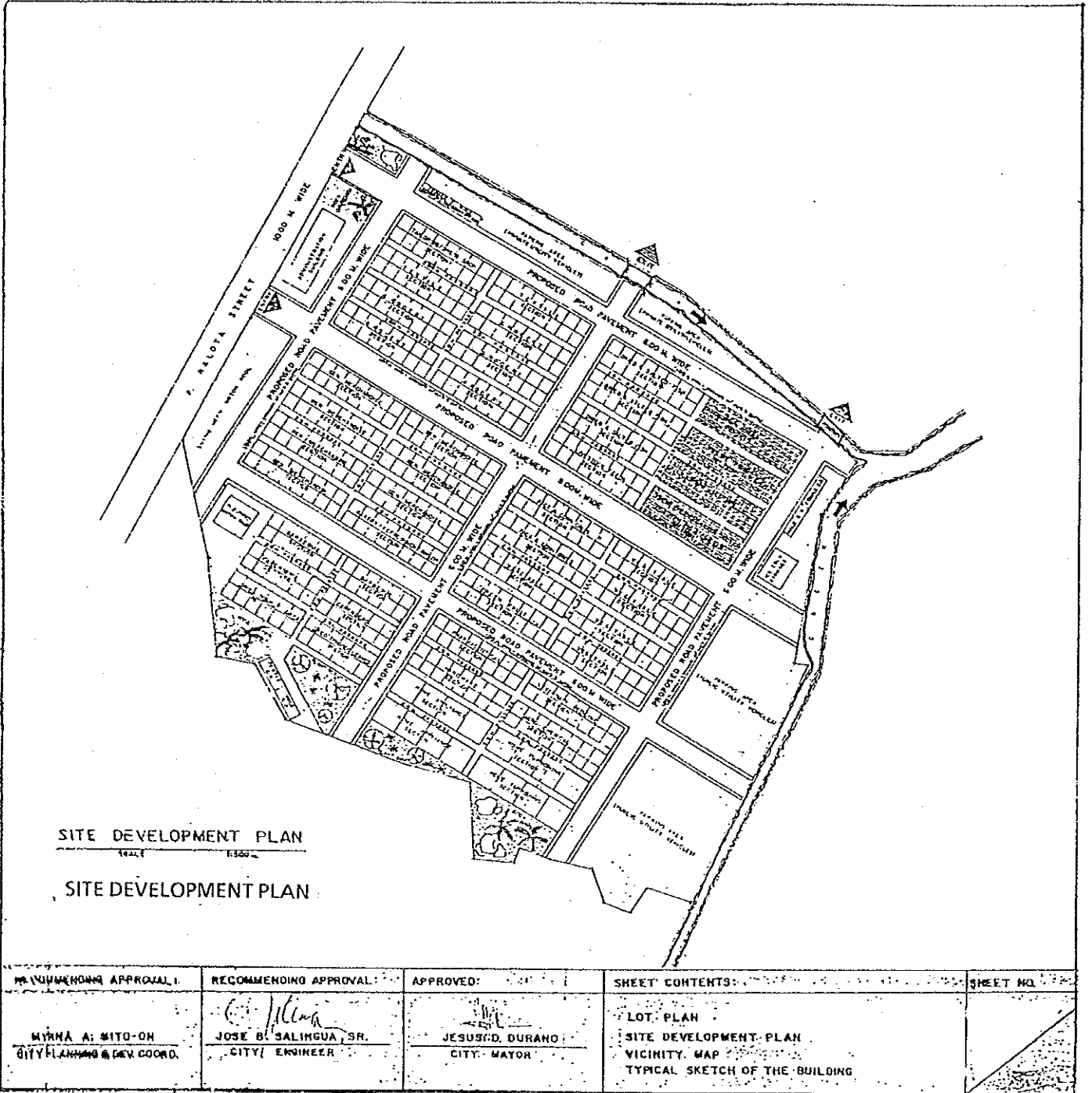
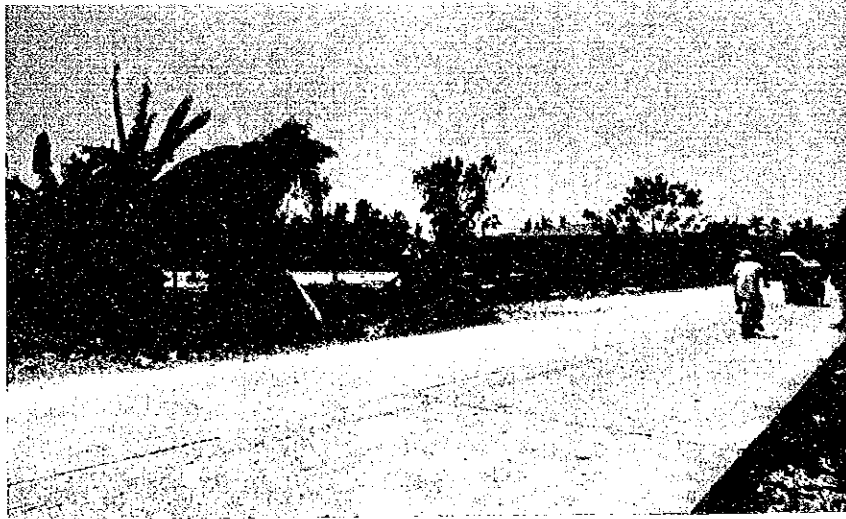


Fig. 3 - 1 - 10: Danao City, new market floor plan (Proposal 2).



NEW SITE PRESENT STATE ① DANA O PUBLIC MARKET

DANA O PUBLIC
MARKET NEW SITE
VIEW FROM FRONT
ROAD

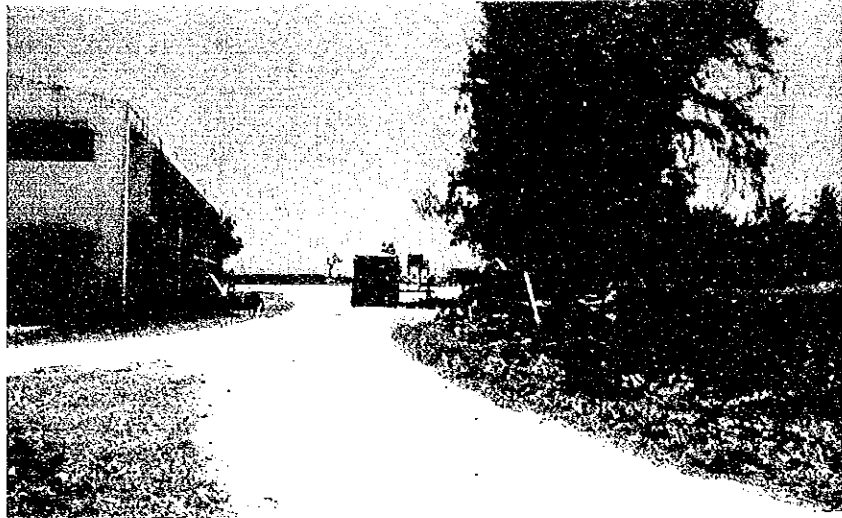


PUBLIC MARKET NEW SITE



HEAVY MACHINE AND VEHICLE GARAGE
FACING FRONT ROAD

**PUBLIC MARKET CAR
PARK SITE**



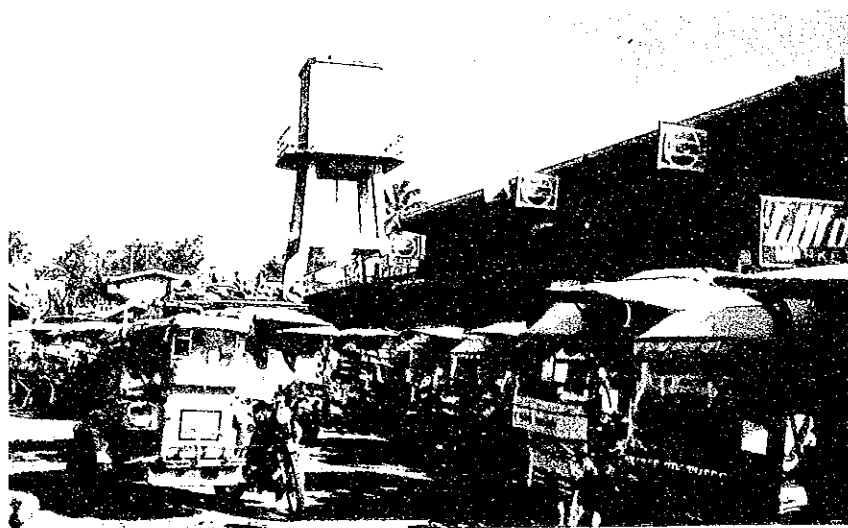
PUBLIC MARKET SITE VIEW FROM CAR PARK SITE

**DRAINAGE GUTTER
INSIDE THE LOT**

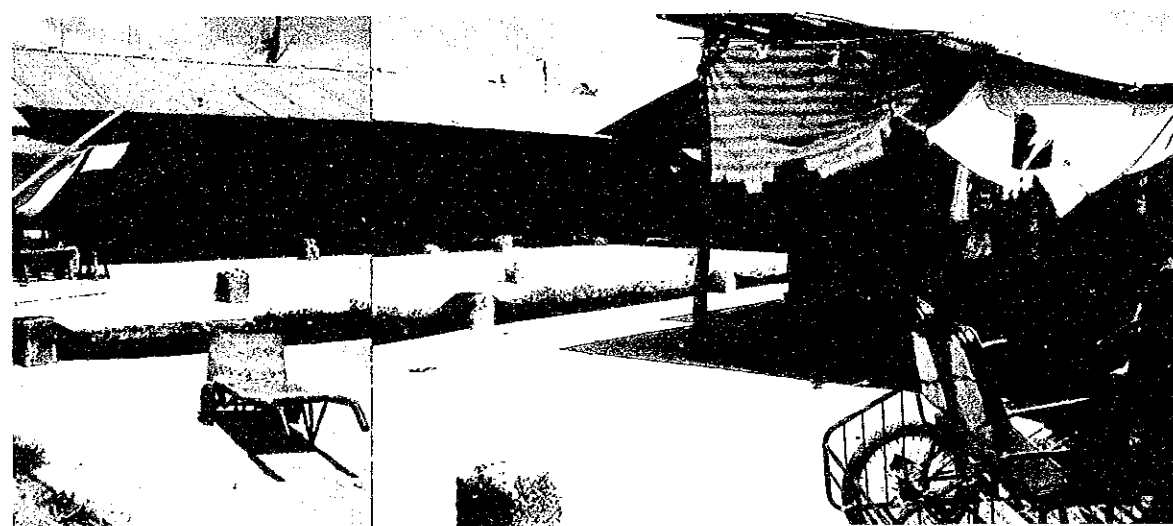


EXISTING PUBLIC MARKET'S PRESENT STATE ① DANAOPUBLIC MARKET

EXISTING PUBLIC MARKET'S APPEARANCE, PRESENT CONDITION OF FRONT ROAD



PRESENT STATE OF THE MARKET SURROUNDINGS



PRESENT STATE OF THE MARKET BUILDING DEVASTATED BY TYPHOON

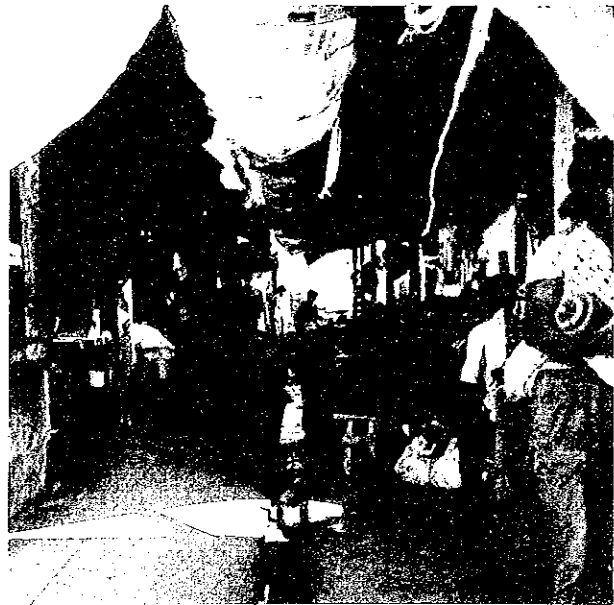
EXISTING PUBLIC
MARKET INSIDE



EXISTING PUBLIC
MARKET INSIDE



INSIDE THE MARKET



4) Toledo City

Toledo City is located in the center of the western coast of Cebu Island and is about 50km away from Cebu city. The population in 1983 was 123,569 people and rate of population growth was 2.5%. Population increased at a rate of 19.5% due to the immigration of workers with the expansion of the Atlas Consolidated Mining and Development Corporation (ACMDC). The principal economic activities in Toledo City are copper and coal mining, fertilizer manufacture, limestone quarrying, farming and commerce. The major crops are corn, rice, bananas, coconuts and vegetables. About 24.4% of the city's area is devoted to industry, and most of this is owned by ACMDC. The Corporation is mainly concerned with mining (copper and coal) along with other industries including fertilizer manufacture, furniture making, lumberyards, woodcraft and wood processing. Furthermore, trading and commerce form a large part of Toledo's economic base. The city is a major node in the regions transportation network, being an interconnection point for land traffic from the neighboring Negros Provinces and sea traffic from the island of Cebu.

The public market system in Toledo City consists of two principal public markets, three small scale barangay markets (about 20 stores) and a private "tabo" market. The two principal public markets are Poblacion market and Don Andres Soriano market.

The Poblacion market is located in the heart of the city, and consists of 270 stores. About 400 road side vendors of every description from all districts gather on market day. The market mainly deals in fresh fish, meat, fruits and vegetables, as well as daily necessities and clothing.

The Don Andres Soriano market is located in the center of the inland ACMDC mining town, and consists of 86 stores. The market is currently undergoing repairs so temporary stalls are operating on both sides of the road in front of the market. The barangay markets operate once a week.

● Current Conditions

There are public markets in two locations, one in the center of the city (Poblacion Market) and the other the mining town in the south of the City (DAS: Don Andres Soriano Market).

The Poblacion market has developed along the seafront, and the market building and slaughter house are laid out on a site with a land area of

13,000m². On week days 270 stores operate in this area, and 600 stores including road side stalls operate on market day. Typhoon "Ruping" damaged the roof and windows, and the city authorities spent 1 million pesos to repair the damage. The condition of the main market building is good and clean, but the slaughter house is dilapidated and the roof collapsed due to the typhoon damage and it has not been repaired. Furthermore, a section of the rock wall on the front of the existing market collapsed and the city authorities repaired this. The market is being pressed by the necessity to expand the space, so the slaughter house will be relocated and a building which will chiefly house the fish market and wet goods section will be constructed in the vacated site. It is also planned to newly construct an icehouse and an administration office, both of which are not currently installed. There are residents living in the area around the proposed site for the newly constructed slaughter house, so the city authorities have prepared a 2ha site as a relocation site. Furthermore, the proposed site for the new construction faces the sea and will require a sea wall similar to the one installed at the existing market.

The DAS market was constructed in 1969, but it has suffered great damage such as having the roof ripped off by a typhoon. The city authorities have performed overall repairs using a budget of 3 million pesos, but this has been inadequate. Thus, it is planned to relocate the dilapidated slaughter house which is the site, and to try to expand the dry goods section into the vacated site at the same time as creating space for road side vendors and installing cold storage facilities, etc.

During the repair work, the stores that were within the market operated from temporary stalls that were constructed on both sides of the road in front of the market. The expenses for this temporary relocation were borne by each store on the condition that they would be able to retenant the building after the repairs were completed. The city authorities did not make any particular relocation guarantees during the period while the work was being performed.

Both the Poblacion and DAS markets are required to relocate their slaughter house facilities. The proposed relocation site for the slaughter house is on a principal road which links the two markets. It is planned to operate with a capacity to supply meat for both markets. The proposed relocation site is in an area about 12km away from the Poblacion market and 6km away from the DAS market. In the past, this was the site for a

small scale public market, but after it closed down, the site has only been occasionally used for livestock auctions. There is a level site cut out of a sloping piece of land, with sufficient space and suitable location, topography and environment required for the construction of a slaughter house.

- **Problem Points and Observations**

Repairs have been carried out at the main market building at both markets by the city authorities. Therefore, these markets have a low priority and level of urgency compared to other markets. Furthermore, the site that the Poblacion market faces requires a sea wall. As a result, a considerable amount of time and money will be required for site preparation work including the construction of the sea wall. As no estimates of the work schedule have been made, there is no alternative but to remove these markets from the current project. The site for the construction of the new DAS market slaughter house is 6km away from the market, but this will not be a problem since the slaughter house will be directly operated by the city authorities and distribution will be directly performed by city (market) employees. This slaughter house is conveniently located for distribution not just to the DAS market but to other markets in the area such as the Poblacion market. The existing slaughter house which adjoins the DAS market has also location and hygiene problems and a relocation recommendation has been issued based upon the standards of the Philippines. Furthermore, there is no suitable site for the expansion of the DAS market apart from the site vacated by the relocation of the slaughter house, so the preparation of a site for the relocation of the existing slaughter house is a precondition to rehabilitating the market.

This market, which was constructed in 1969, lost its entire roof during typhoon "Ruping" in 1990. Repair work is almost completed, and the reopening of the market is currently being awaited. After reopening, the market will consist of 73 fish and meat stores, 121 dried fish, fruit and vegetable stores and 85 miscellaneous item, clothing and footwear stores. As the result of the current rehabilitation of store structure, there is a lack of miscellaneous item, clothing stores and so forth, so expansion is necessary.

These dry goods section stores will be relocated to old facilities such as the adjoining slaughter house, making it possible to undertake the expansion construction in the vacated site.

Notice: There was no possibility to estimate when the site preparation will be completed for Poblacion Market place by the end of June 1992.

There were no additional informations needed for Das Market place by the end of June 1992.

Fig. 3 - 1 - 11: Toledo City, Poblacion Market, Sketch map of the surrounding area, site location map showing city hall and the existing market.

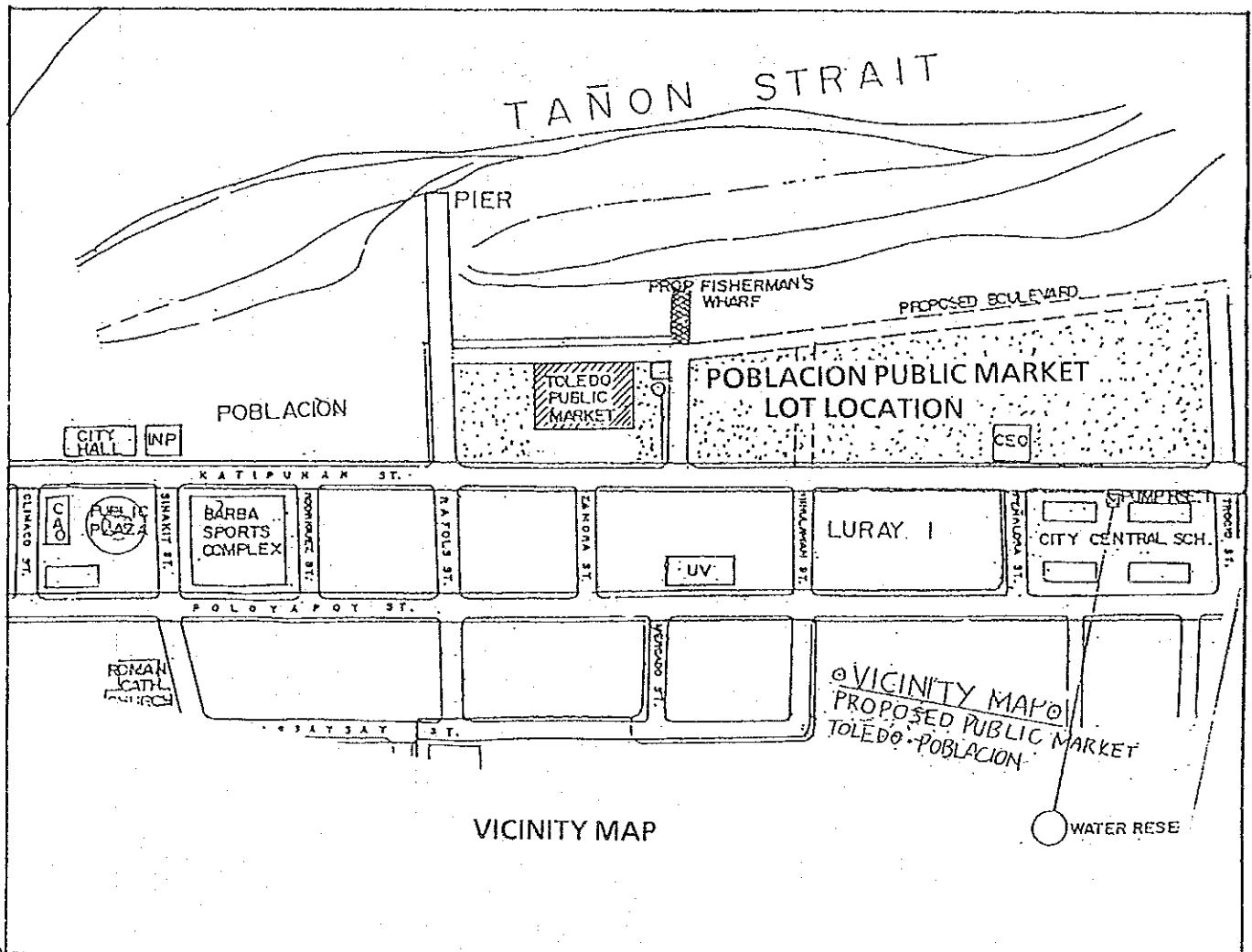


Fig. 3 - 1 - 12: Toledo City, Existing Poblacion Market layout plan.

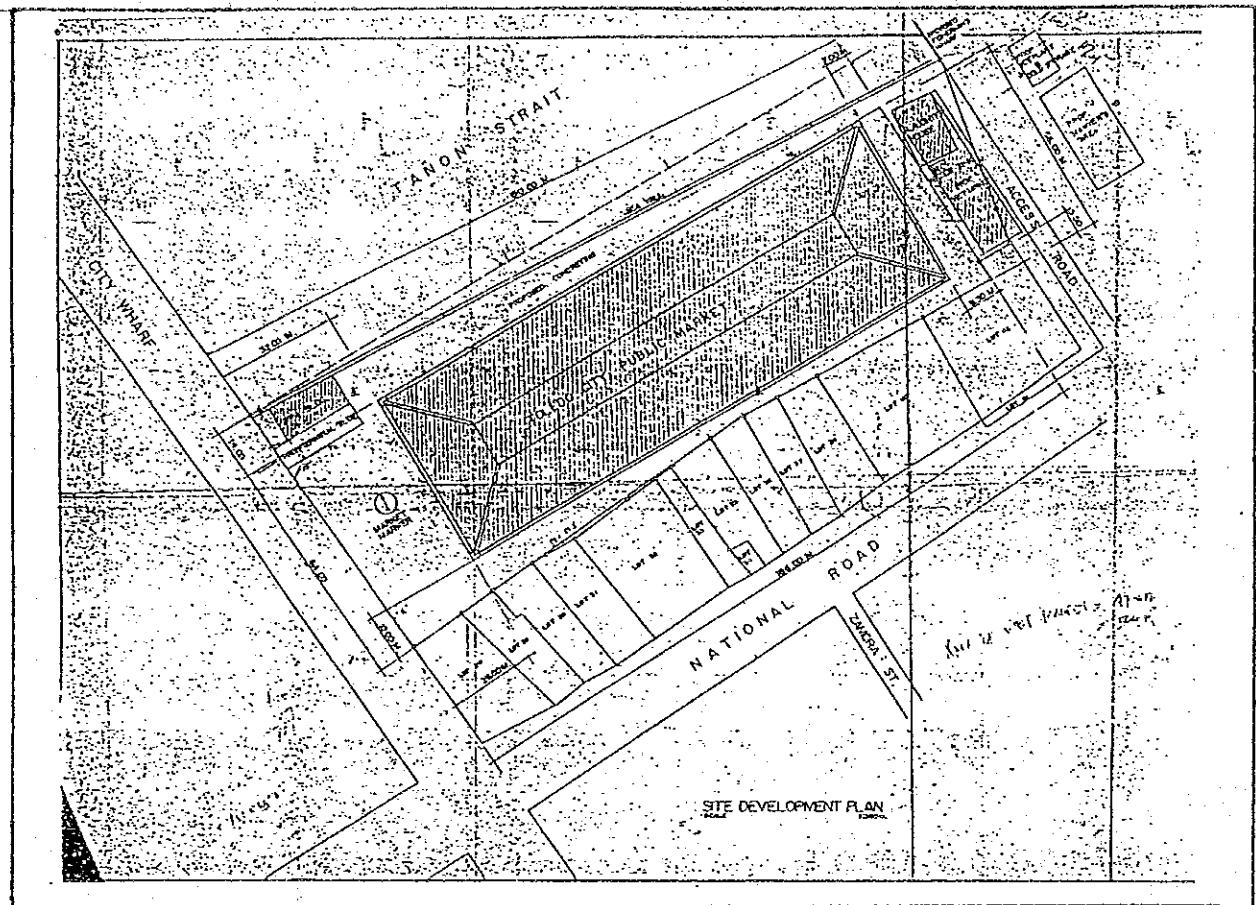
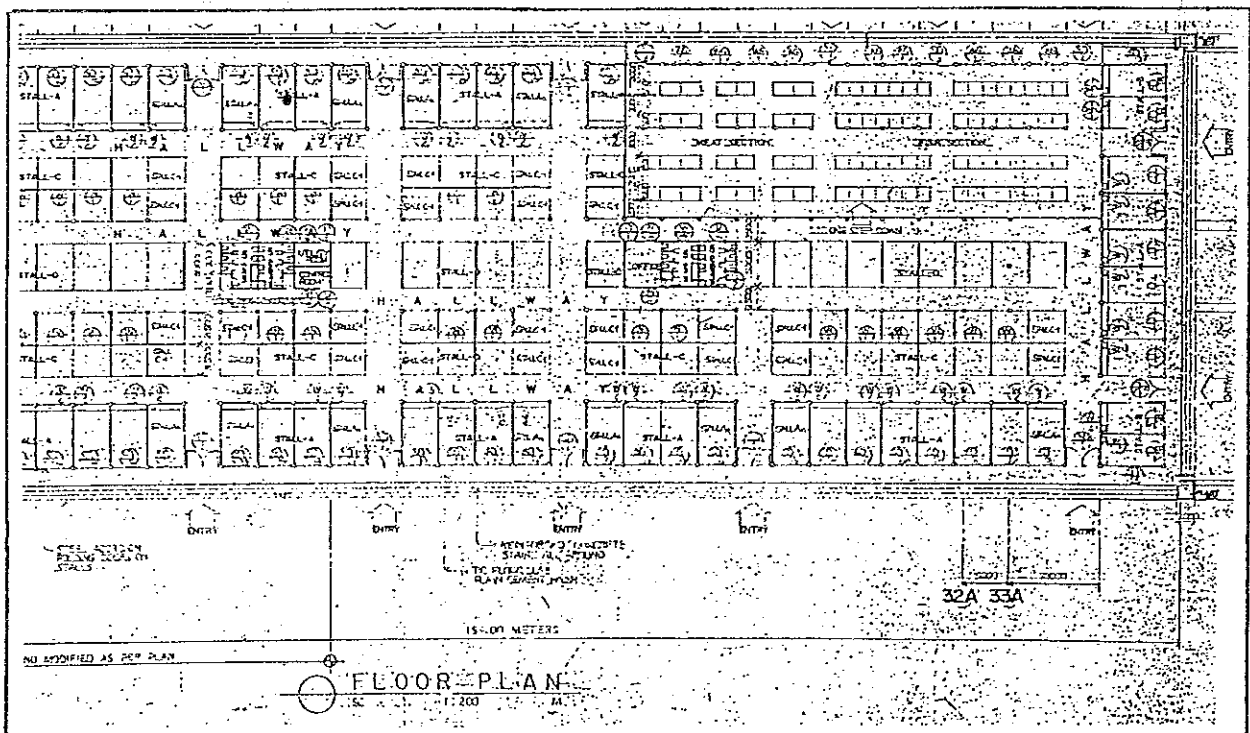
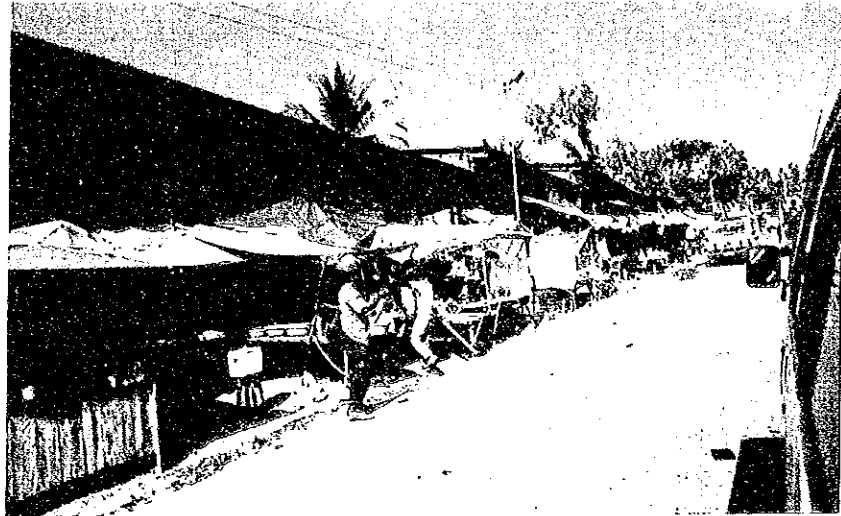


Fig. 3 - 1 - 13: Toledo City, Floor plan of the existing Poblacion Market.



SITE PRESENT STATE ① TOLEDO PUBLIC MARKET (1) DAS PUBLIC MARKET

**TEMPORARY STORE'S
FRONT ROAD**



**PUBLIC MARKET
EXTENSION SITE**

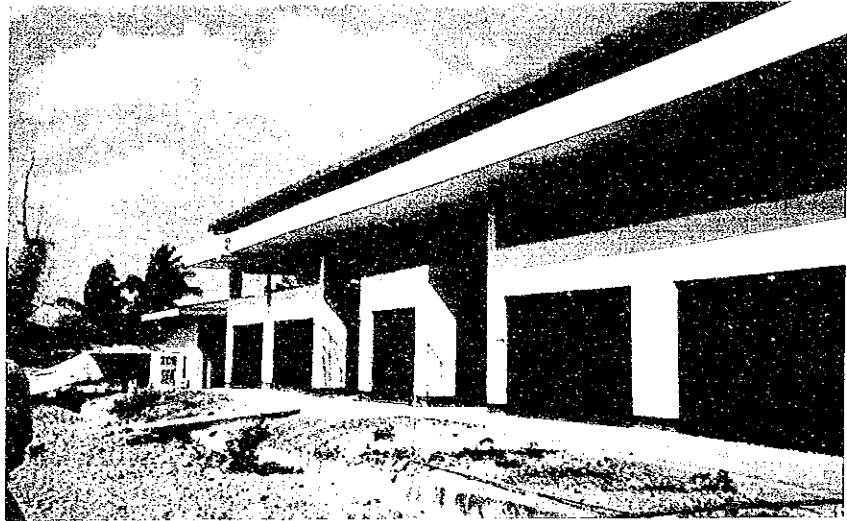


**EXISTING
SLAUGHTER HOUSE
APPEARANCE
(PUBLIC MARKET
EXTENSION SITE)**

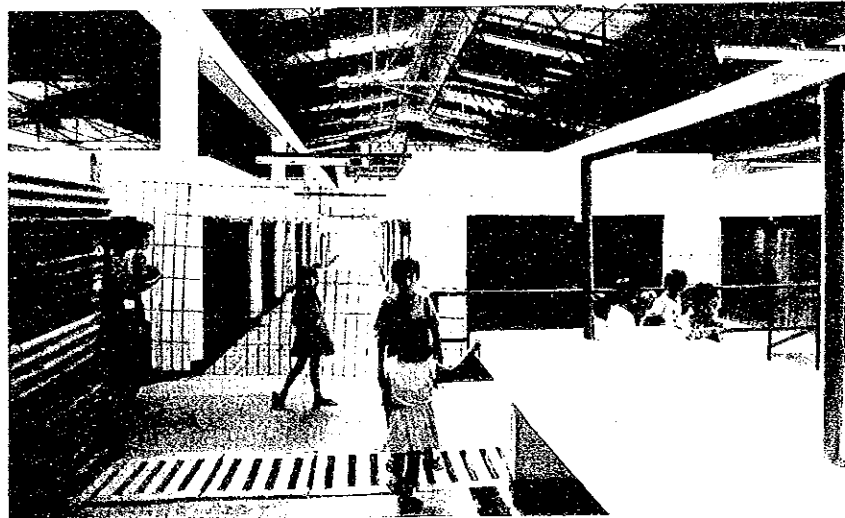


DON ANDRES SORIANO (DAS) MARKET

**PUBLIC MARKET
APPEARANCE
(AFTER REPAIRED)**



**PUBLIC MARKET
INTERIOR
BOOTH TYPE STORE
(AFTER REPAIRED)**

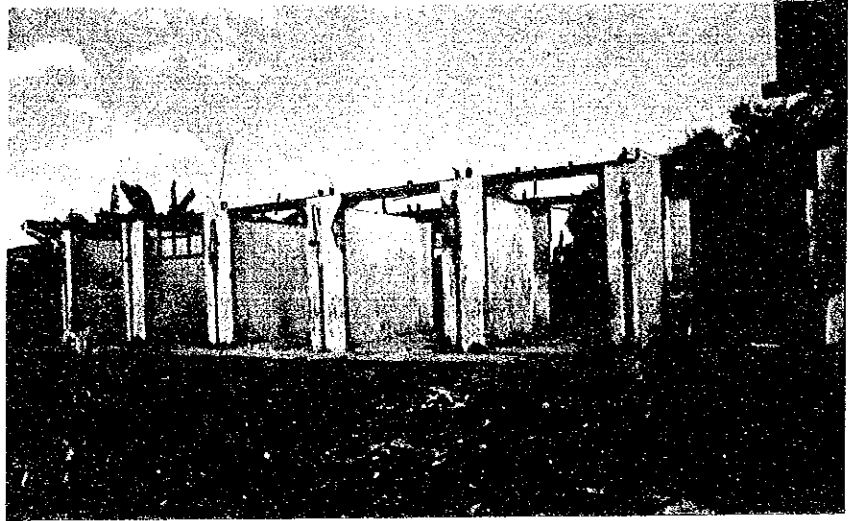


**INSIDE EXISTING
SLAUGHTER HOUSE
INSIDE**

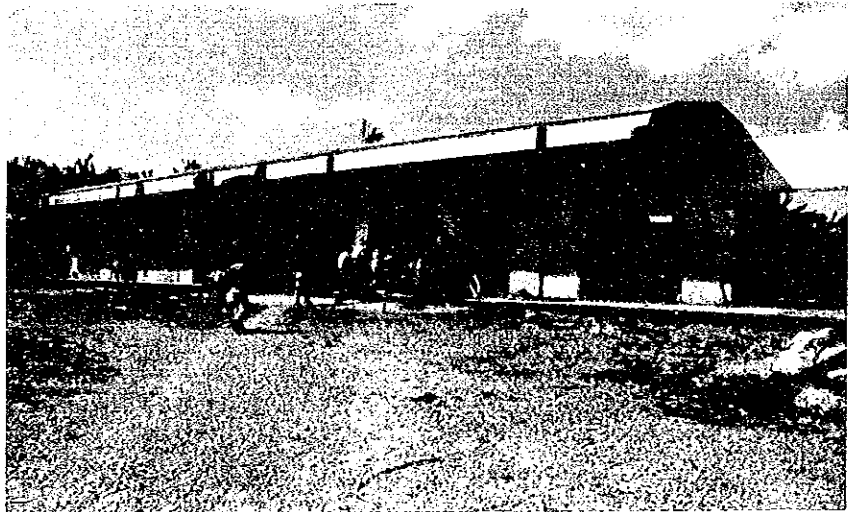


(2) DAS PUBLIC MARKET SLAUGHTER HOUSE AND
NEW SLAUGHTERHOUSE SITE

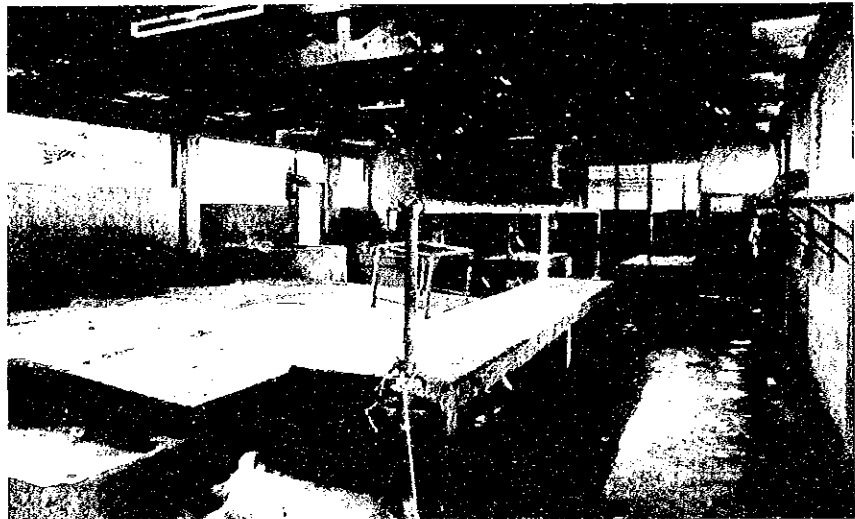
SLAUGHTER HOUSE
NEW SITE



SLAUGHTER HOUSE
NEW SITE



INSIDE EXISTING
SLAUGHTER HOUSE



**PUBLIC MARKET PRESENT STATE ① TOLEDO PUBLIC MARKET, (1) POBLACION
PUBLIC MARKET**

**PUBLIC MARKET AND
FRONT ROAD
(SQUARE)**



**PUBLIC MARKET
APPEARANCE**



**PUBLIC MARKET
INSIDE**



5) Oroquieta City

Oroquieta City is the provincial capital of Misamis Occidental province. The population was 52,531 people with a population growth rate of 1.9% according to 1990 statistics. The city consists of 47 barangay, of which 34 are rural. The city has an agri-based economy. The main agricultural crops are coconuts, rice, maize, vegetables and rootcrops. Other crops produced are bananas, coffee and fruits. There are two major manufacturing industries in Oroquieta City; a manufacturer which produces desiccated coconut and banana chips, and another which produces coir fiber, twine and doormats. Other industries in the city are furniture making, shellcraft, lumberyards and floor mills.

The public market facilities in Oroquieta City are currently located in a single location along side the Layawan River in the heart of the commercial district. The market consists of 688 stores in eight main buildings (4 blocks), dealing primarily in fresh fish, meat, fruits and vegetables, processed fish, cereals, daily necessities and miscellaneous items, clothing and so forth.

● Current Conditions

The city and surrounding areas are typical rural regions, and the population has increased to over 50,000 without rapid population growth.

Within the existing market site, there are the Market Building A and B, the barracks, administration office, slaughter house, Agri-Bagsaken area, Fish Bagsakan area, public toilets, fire station buildings.

The area of the site is about 1.8ha, consisting of four blocks; the Market Buildings A and B, the barracks and the road side stalls section.

The Market Building A is the refreshments/eatery (Carinderia) building which contains about 40 stores, but due to changes in business there are certain stores which are no longer restaurants. The building's structural and hygienic conditions are not currently a problem. But the building is cramped, with renovations that vendors have made at their own expense and evidence of work in progress are noticeable.

There are 376 tenants in Market Building B, including stores dealing with perishable food stuffs such as fresh fish, meat, vegetables, etc. and stores dealing in daily necessities and clothing. The building structure is adequate, constructed from reinforced-concrete columns and steel truss

frame work. But like Market Building A, it is cramped with renovations that vendors have made at their own expense and evidence of work in progress is noticeable. The building is extremely congested and it require better ventilation, drainage, lighting facilities, etc. but compared to other markets it provides a good environment.

The barracks, with 104 stores, is located on the site adjacent to Market Building A is called the "old market area". In this area, barracks were gradually constructed after the old style market was removed from the site. For this reason, the floor is not paved with concrete, and there are no drainage facilities, posing hygienic problems. Furthermore, this section suffered the greatest typhoon damage, and the current dilapidated condition of the building is vulnerable to damage caused by normal rain and wind.

The area in which the road side stall vendors gather is along side the Layawan River adjacent to the slaughter house. Under normal conditions, about 100 road side stall vendors are operating under tents which have been erected. The area is extremely congested on weekends. Furthermore, the existing slaughter house is dilapidated and recommendations concerning hygiene have been published by the government meat inspectors and further recommendations concerning relocating the slaughter house have also been issued.

- **Problem Points and Observations**

It is planned to construct a new market on the site vacated by the barracks. The city authorities have secured a parcel of land on the opposite shore of the Layawan River, which runs along side of the existing market, to serve as the relocation site for the slaughter house. But this land is still registered as private property. The land acquisition process was halted during the general elections, but as soon as the new administration is decided upon the processing work should proceed promptly. Excluding the land acquisition process, there are no other problems. The site location, topography and environment are suitable for a slaughter house.

- ① Trade and commerce form a large part of the city's economic base. This market serves as a distribution and commercial center for other provinces, cities and municipalities, especially the hinterland regions of Aloran and Lopez Jaena.

- ② The market was razed by fire in May 1973 and suffered damage when it was struck by typhoon "Uring" in July 1990. As a result of these disasters, the market has been beset with problems such as overcrowding in all areas of the market, and bad smells emanating from the drainage pipes around the market due to unhygienic conditions and inadequate drainage. At present, there are 688 permanent stores operating out of three buildings. In addition to these, about 400 temporary road side stalls fill the roads on market day.
- ③ The slaughter house and public toilets within the site are unhygienic.
- ④ Since the damages that were previously mentioned, 104 stores (mainly clothing) have been temporarily operating in the barracks area. Regardless of the fact that this location is in the heart of the market place, urgent restoration work has been requested.

Fig. 3 - 1 - 16: Oroquieta City, Sketch map of the surrounding area, market, slaughter house site location map.

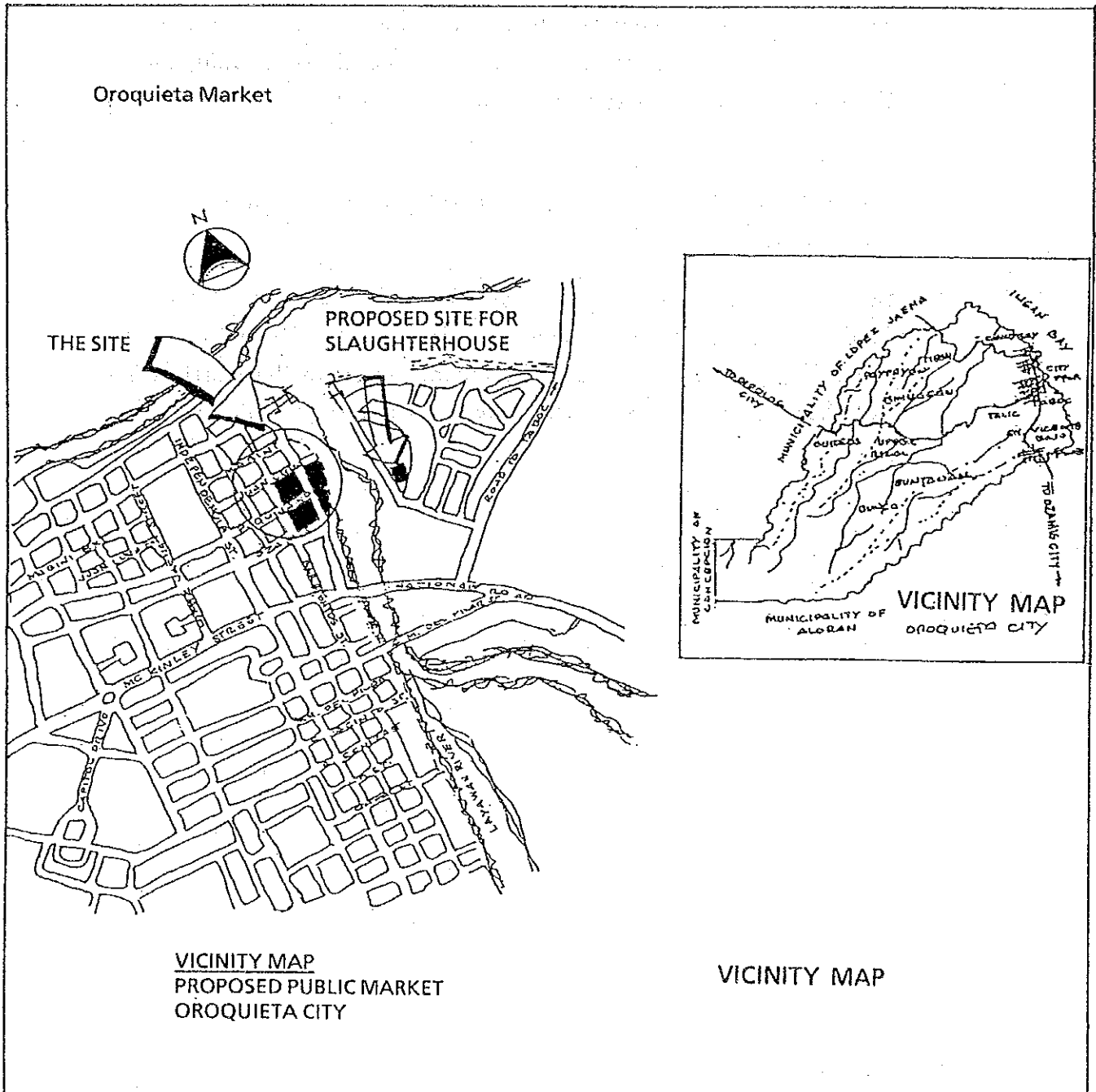


Fig. 3 - 1 - 17: Oroquieta City, layout plan of the existing market and proposed layout plan.

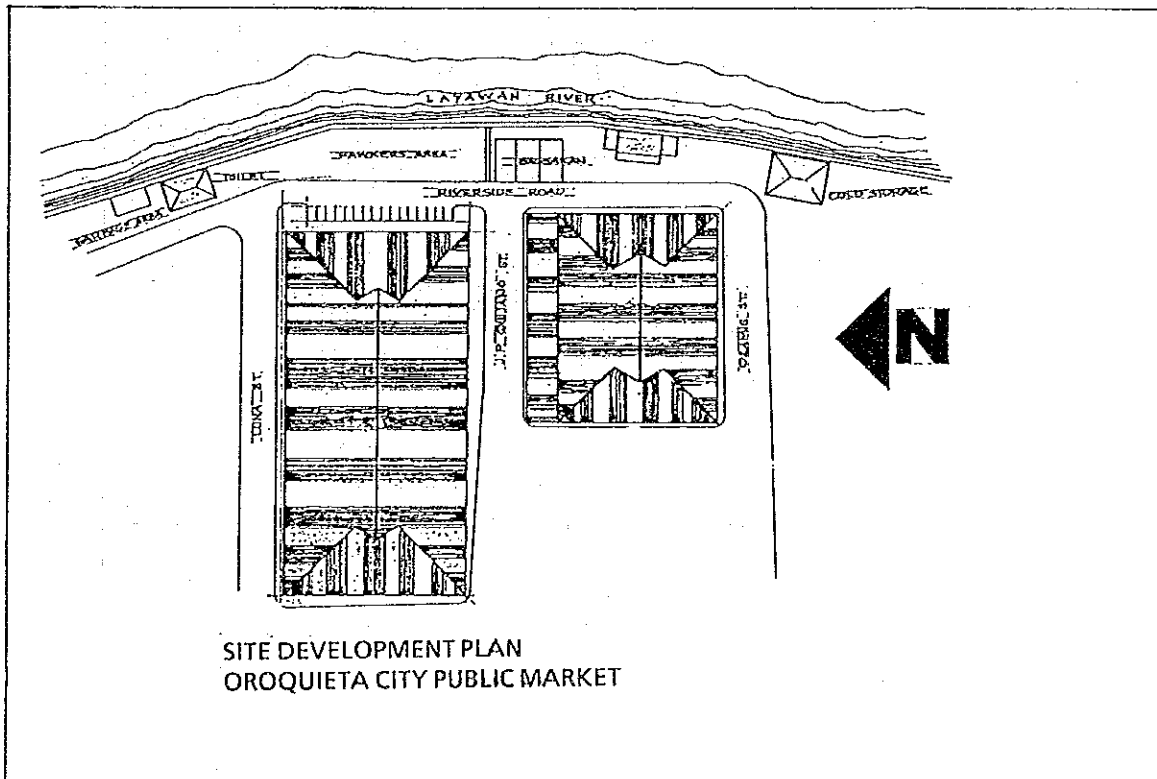
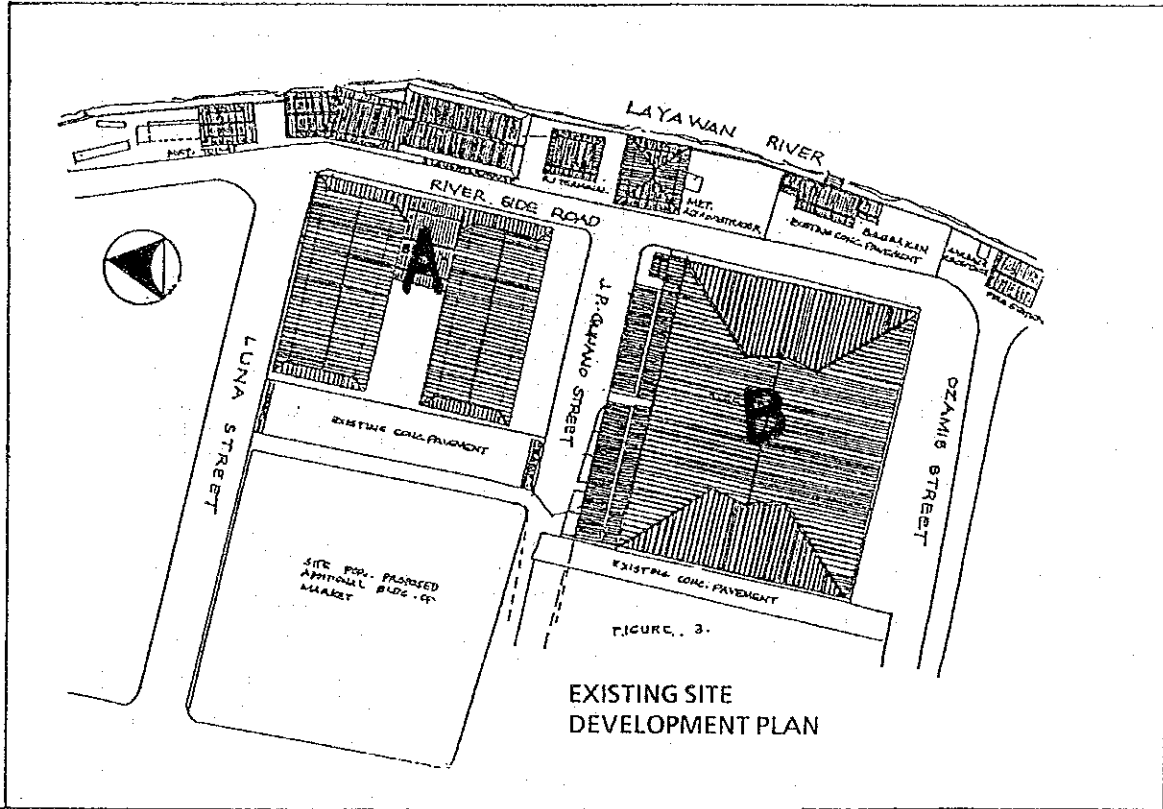
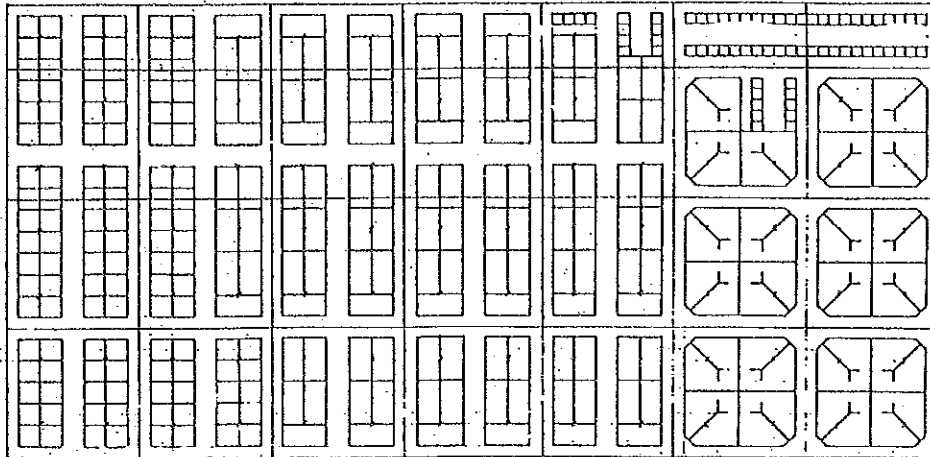
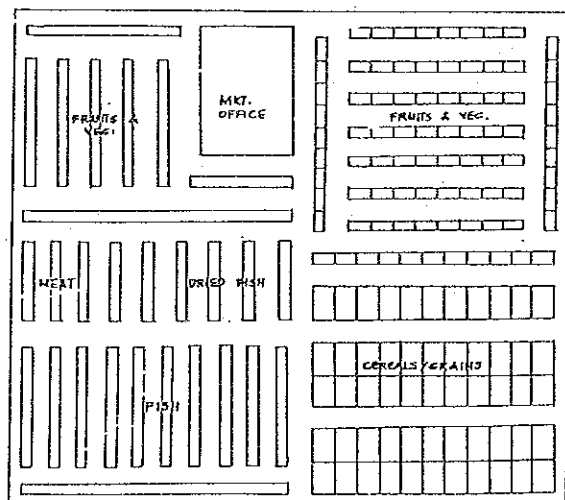


Fig. 3 - 1 - 19: Oroquieta City, Floor plan of the proposed market.

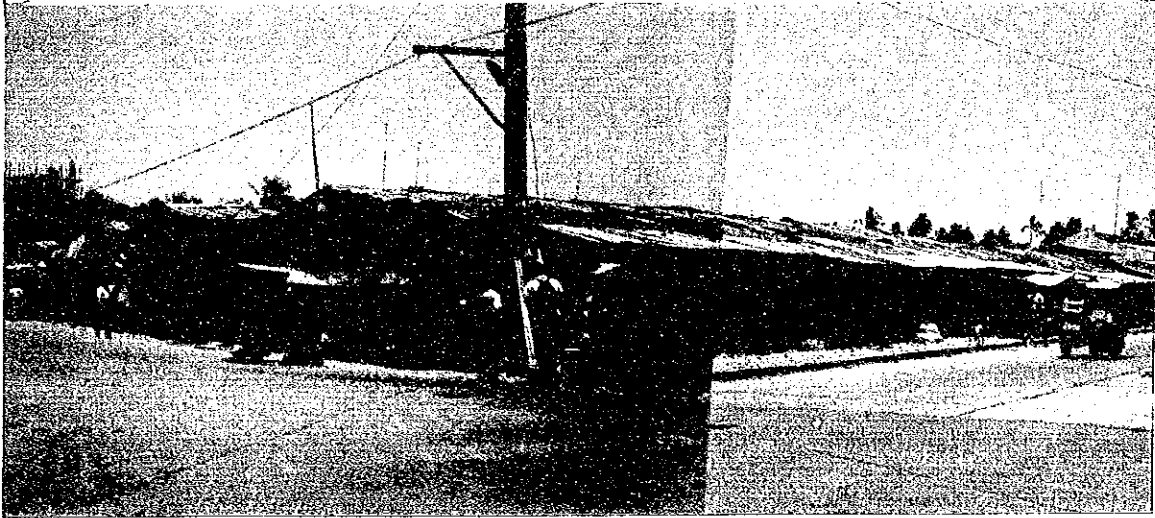


**PROPOSED STALL LAYOUT
OROQUIETA CITY PUBLIC MARKET**

PROPOSED BLDG B LAYOUT



SITE PRESENT STATE ① OROQUIETA PUBLIC MARKET



PUBLIC MARKET BARRACK GROUND (REPAIRING PART)

PUBLIC MARKET
BARRACK GROUND
(REPAIRING PART)



BARRACK GROUND
INSIDE

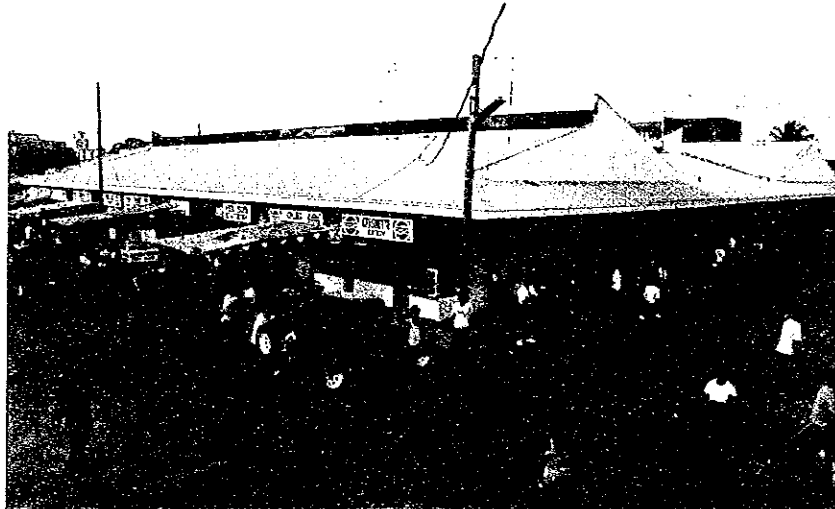


EXISTING PUBLIC MARKET PRESENT STATE ① OROQUIETA PUBLIC MARKET



PUBLIC MARKET WHOLE VIEW

A PUBLIC MARKET
(CANTEEN)



CARINDERIA
(CANTEEN)





B PUBLIC MARKET APPEARANCE

**B PUBLIC MARKET
INTROSPECTION
WOODEN BOOTH
TYPE SALES STAND**

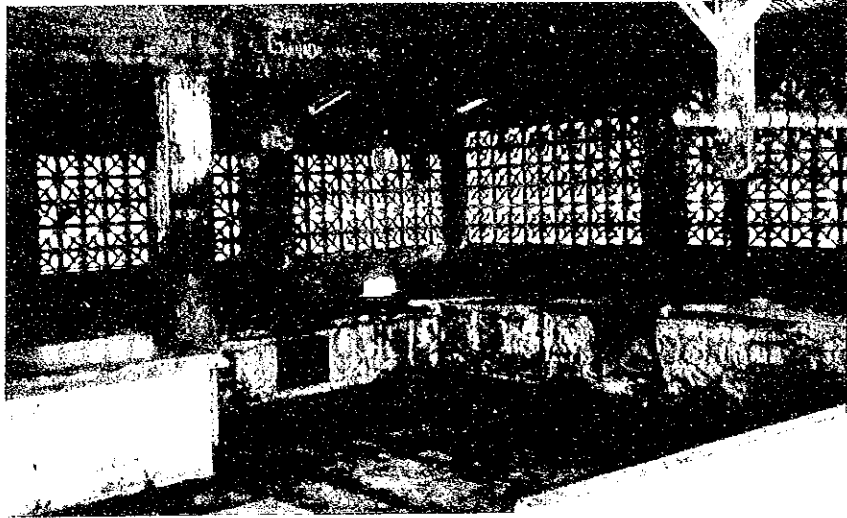


FISH SALES STAND



SLAUGHTER HOUSE AND S LAUGHTER HOUSE NEW SITE PRESENT STATE

EXISTING
SLAUGHTER HOUSE
INSIDE



SLAUGHTER HOUSE
NEW SITE'S FRONT
ROAD



SLAUGHTER HOUSE
NEW SITE



6) Sapang Dalaga

Sapang Dalaga is primarily a self-sufficient agricultural unit. The town has a population of 21,588 people and there is just one public marketplace within the town, since it is relatively close to Oroquieta City. The town is in a mountainous area and coconuts are the sole agricultural crop produced.

• Current Conditions

Sapang Dalaga is 40km north of Oroquieta City and the road joining the two is unpaved and in bad repair so the trip takes about 90 minutes by car. The road is currently undergoing improvement and it is forecasted that this construction will be completed during 1992. The market is located in the heart of the town, and the 6m wide road which runs through the town has been paved. The site is rectangular, being longer from east to west and shorter from north to south. On the southern side, the site an 8m wide national road, and the vacant space of about 5m between the facilities and the road is used for car parking. Furthermore, the site is terraced into two levels, with eight market buildings on the upper level and the fish and meat markets, as well as the toilet building on the lower level (about 3m below).

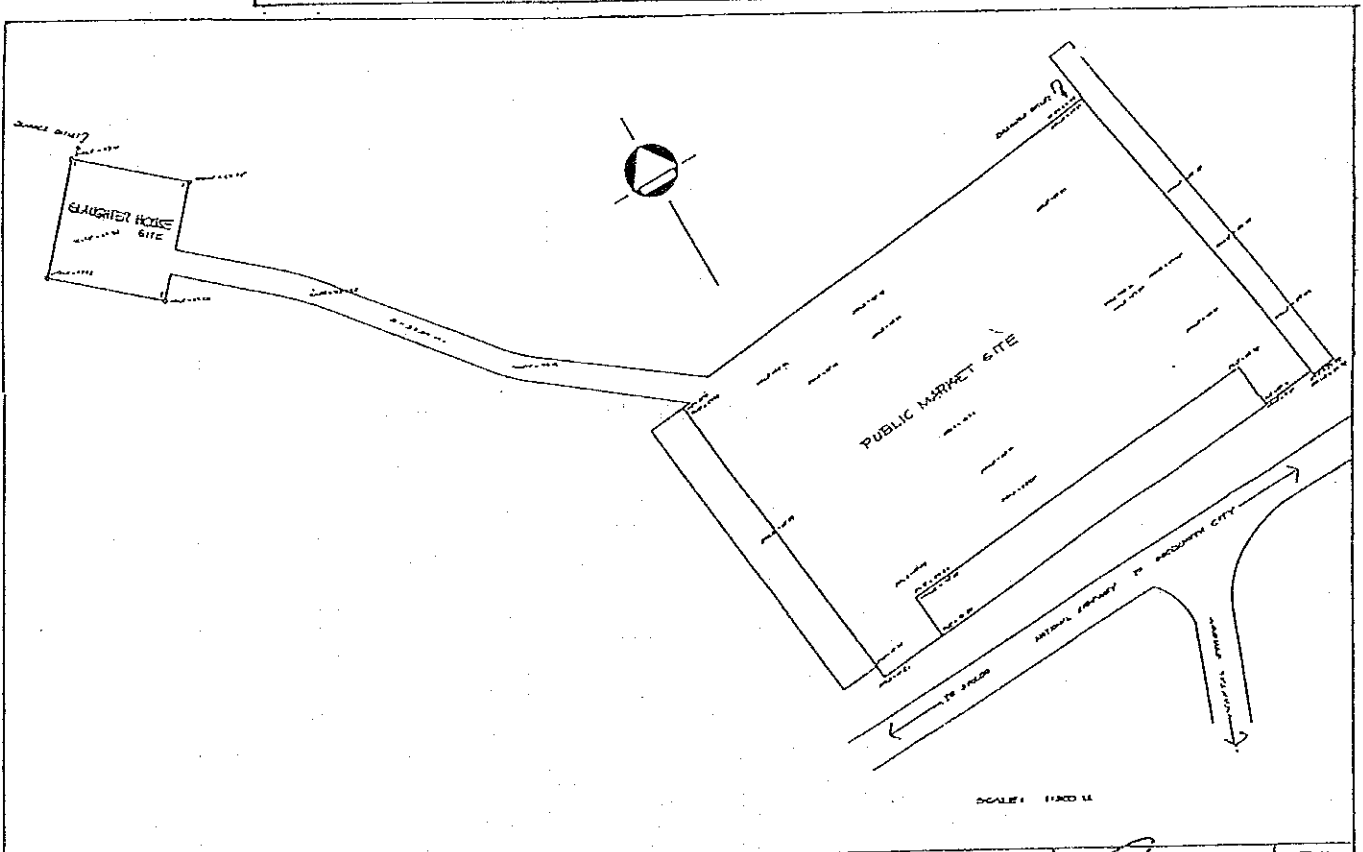
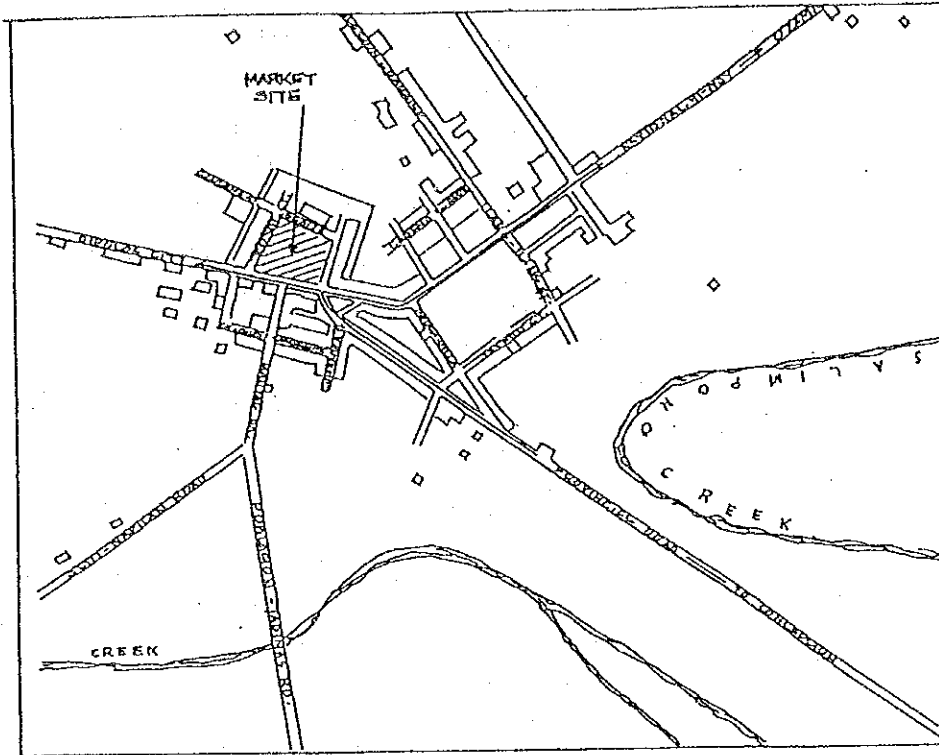
The facilities which have been requested to be restored by this project are the three buildings in the center of the market, and a slaughter house building. The roof of the main market building is dilapidated and supports have been put up around all the wooden columns. It is considered that there is a possible danger that the building will collapse when the next typhoon arrives. The market public utilities infrastructure includes power supply facilities, but scheduled outages occur as the supply capacity is inadequate. The market's water pump becomes inoperable due to these scheduled power outages and the water supply capacity is inadequate. Thus, improvements to the water supply facilities are necessary. Installing generator equipment to ensure electrical power supply was considered, but there were doubts about the maintenance of the equipment, so under the current circumstances it is considered that installing a hand-operated well will be appropriate. Hand-operated pumps have been used in the area (at a location about 500m away from the site), and it is thought that digging a well well-digging within the site will be feasible.

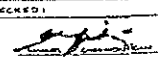
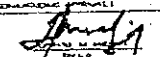
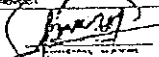
● **Problem Points and Observations**

Reconstruction is urgently required for the extremely dilapidated sections of the market. It is necessary to supplement the water supply facilities by installing a hand operated pump etc., as there are scheduled power outages and the pump can not operate properly.

- ① The market is a typical rural/mountain village market located in a mountainous region. The market opens once a week (Friday is market day) and all of the 90 stores open for business and about 200 road side stalls vendors gather, but on other week days there are never any more than a few stores operating from the afternoon onwards.
- ② The existing market building is incredibly dilapidated and dangerous, so reconstruction is urgently required.
- ③ In the current market, there are only two water supply taps installed in the entire facility, and the water supply capacity is limited as the pump is unable to operate properly due to scheduled power outages.

Fig. 3 - 1 - 20: Sapang Dalaga, Location map of the existing market, market and slaughter house site maps.



REPUBLIC OF THE PHILIPPINES MUNICIPALITY OF SAPANG DALAGA PROVINCE OF BULACAN	PROJECT: PUBLIC MARKET AND SLAUGHTER HOUSE SITE DEVELOPMENT PLAN LOCATION: PUBLIC MARKET, C.R., PASIG, BULACAN, PHILIPPINES.	CHECKED BY: 	PREPARED BY: 	APPROVED BY: 	SHEET NO. 3/3
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