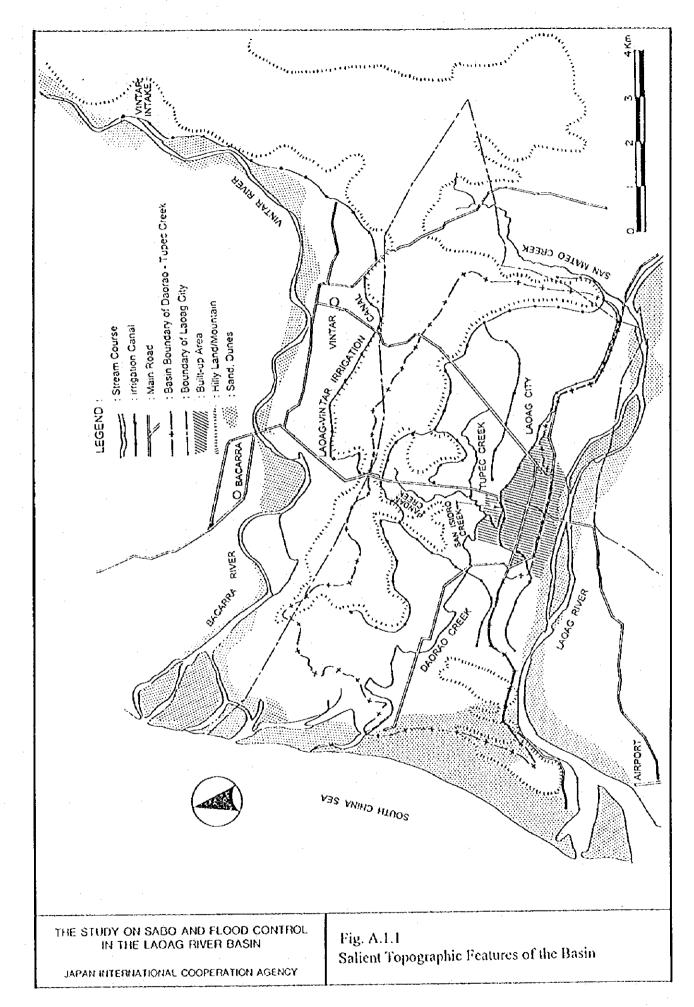
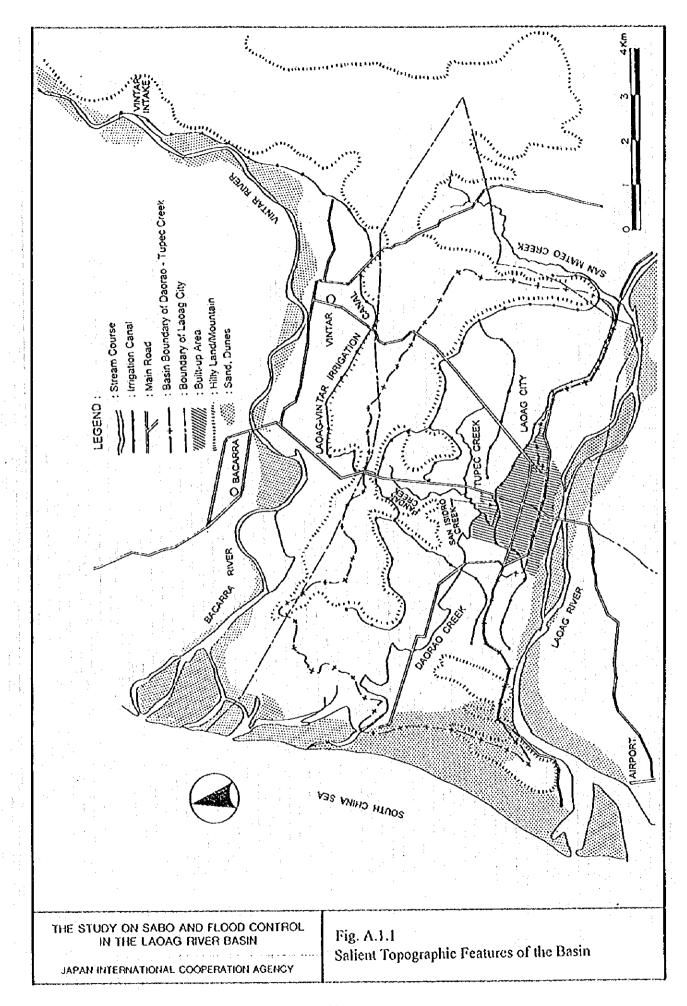
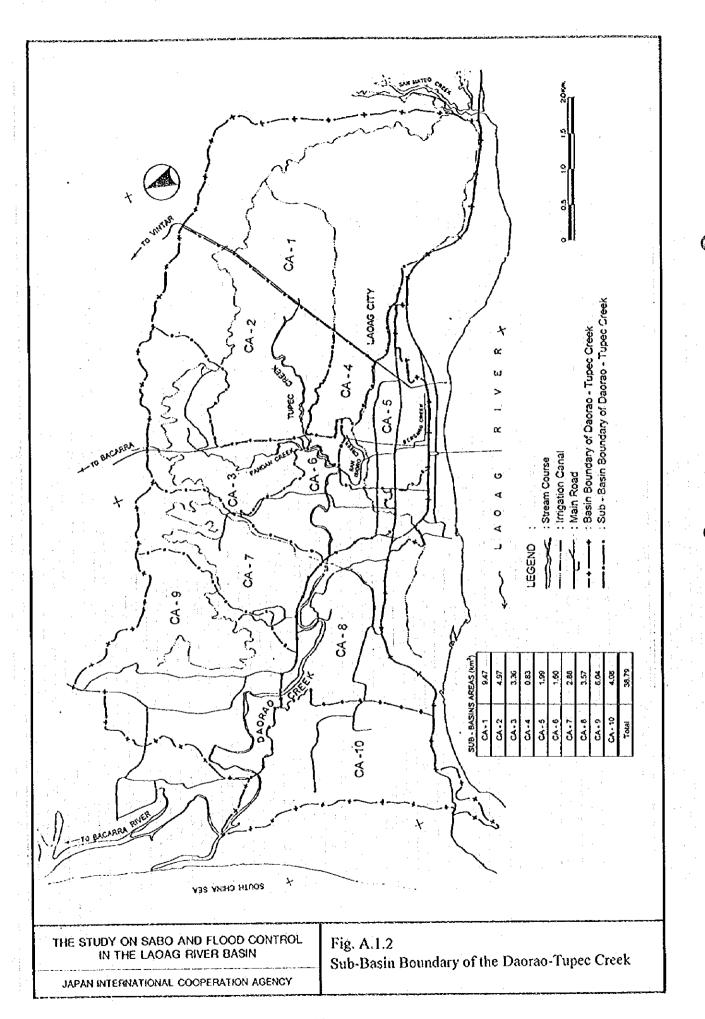
FIGURES

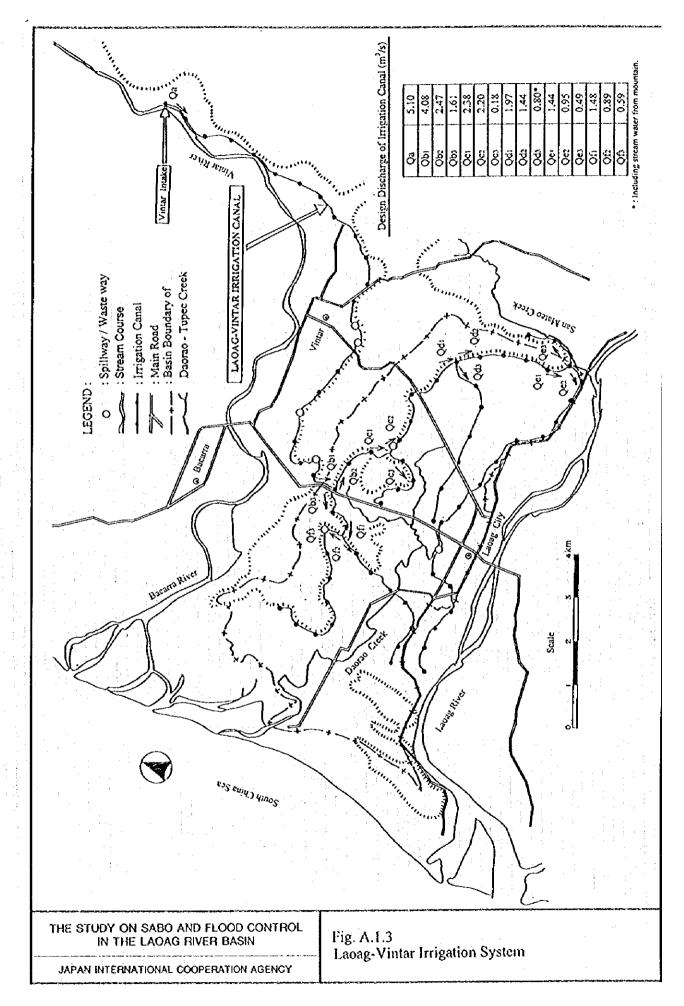
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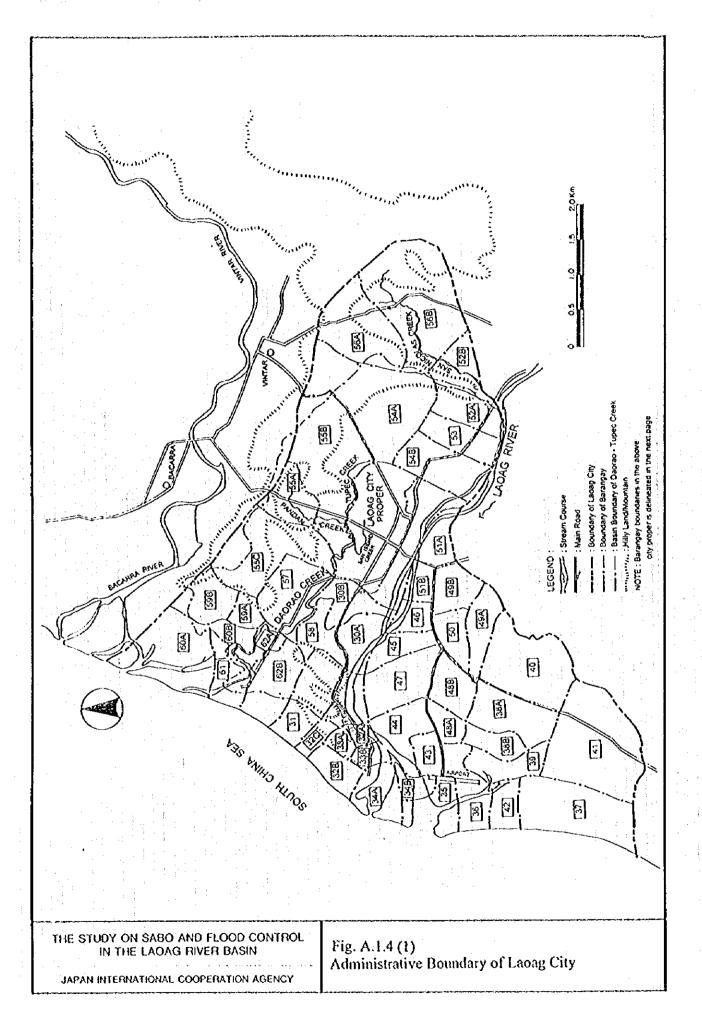


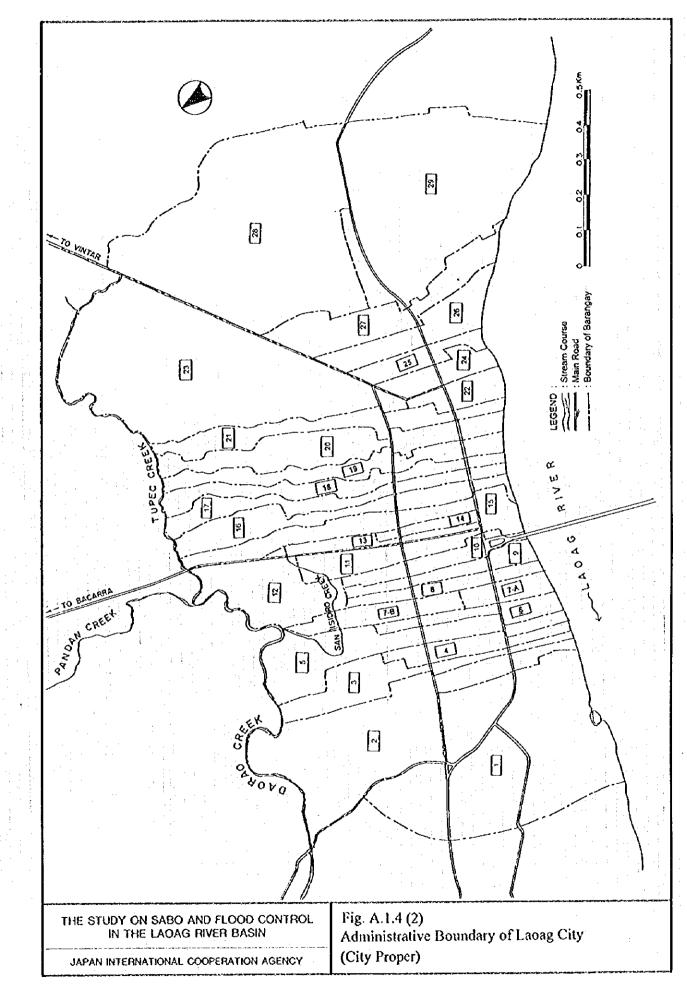
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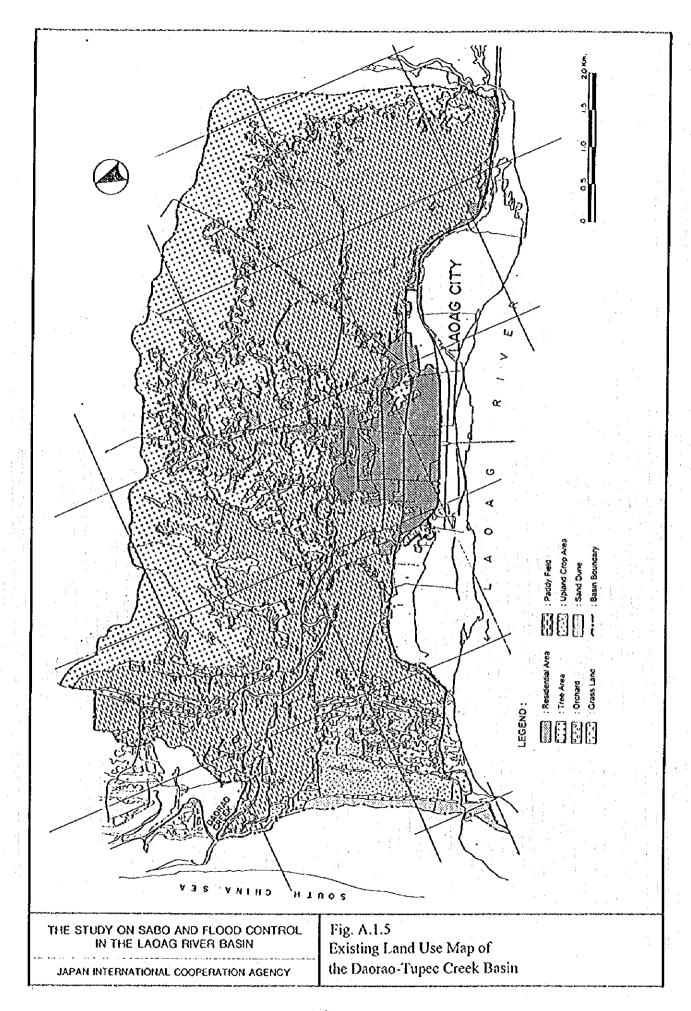


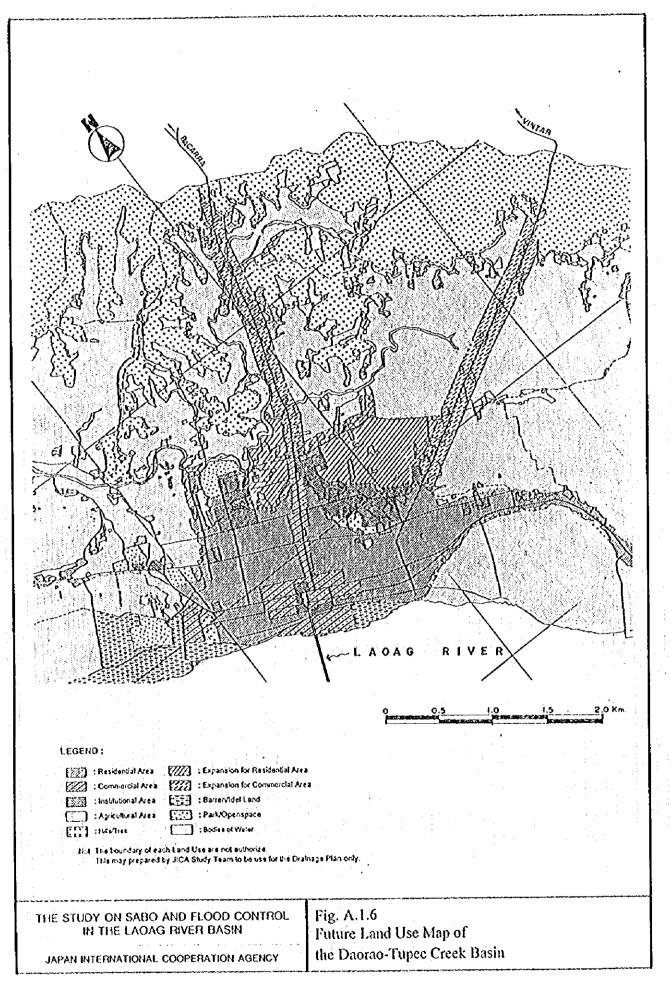
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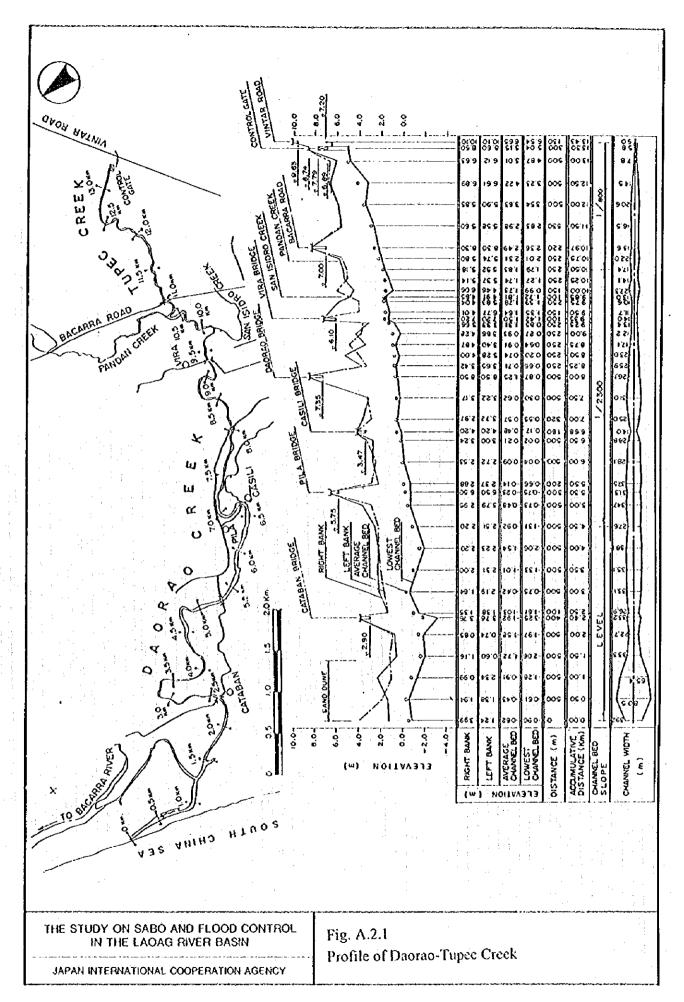
Name and Area of Barangays in Laoag City

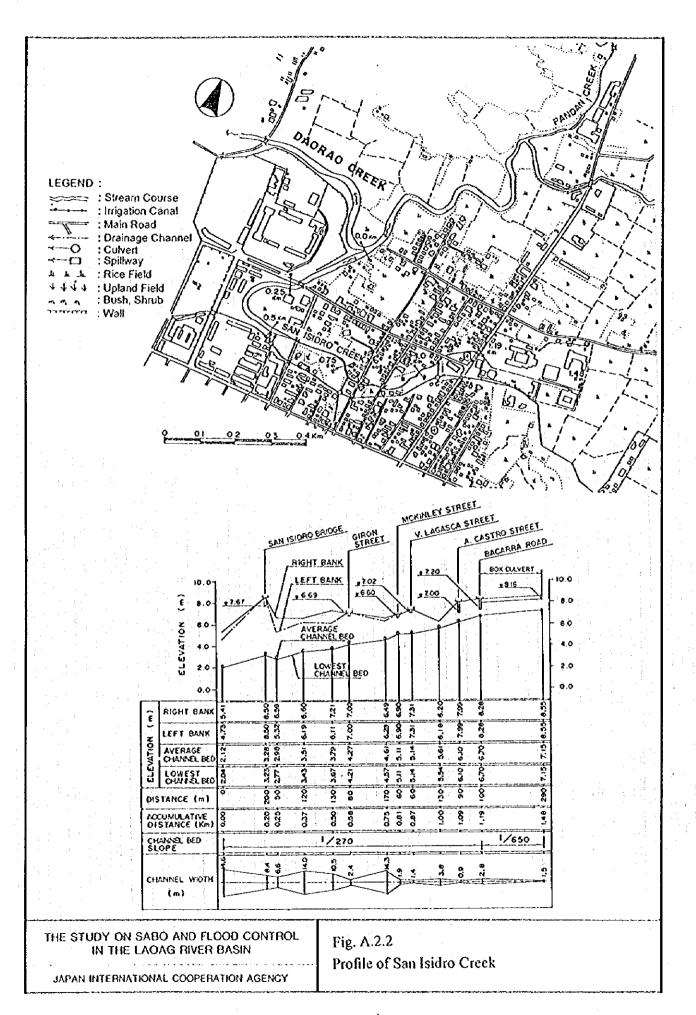
| | City Proper | Outside City Proper | | | |
|-------------|-----------------------------------|---------------------|--------------|----------------------------|---------------|
| No. | Name | Area (ha) | No. | Name | Area (ha) |
| 1 | San Lorenzo (Pob.) | 106.4 | 30 - B | Santa Maria | 187.2 |
| 2 | Santa Joaquina (Pob.) | 74.0 | 30 - A | | 30.4 |
| | Nstra. Sra. Del Rosario (Pob.) | 15.2 | 31 | Talingaan | 566.5 |
| | San Guillermo (Pob.) | 19.3 | 32 - A | La Paz East | 6.0 |
| 5 | San Pedro (Pob.) | 23.8 | D . | La Paz East | 106.6 |
| | San Agustin (Pob.) | 10.9 | H | La Paz West | 31.3 |
| | Nstra, Sra. De Natividad (Pob.) | 8.4 | IP . | La Paz Proper | 10.6 |
| | Nstra, Sra. De Natividad (Pob.) | 13.2 | R . | La Paz Proper | 39.6 |
| 8 | San Vicente (Pob.) | 9.9 | и | Gabu Norte East | 3.0 |
| 9 | Santa Angela (Pob.) | 10.1 | | Gabu Norte West | 87.0 |
| 10 | San Jose (Pob.) | 14.3 | 35 | Gabu Sur | 106.6 |
| 11 | Santa Balbina (Pob.) | 14.0 | 36 | Araniw | 91.5 |
| 12 | San Isidro (Pob.) | 26.7 | 37 | Calayab | 408.3 |
| 13 | Nstra, Sra. De Visitación (Pob.) | 19.3 | 11 - | Mangato East | 109.5 |
| | Santo Tomas (Pob.) | 4.6 | | Mangato West | 101.4 |
| | San Guillermo (Pob.) | 12.5 | 39 | Santa Rosa | 132.8 |
| 15 16 | San Jacinto (Pob.) | 14.8 | 40 | Balatong | 466.8 |
| | San Francisco (Pob.) | 14.8 | 41 | Balacad | 433.4 |
| | | 25.9 | 42 | Apaya | 233.8 |
| 18 19 | San Quirino (Pob.) | 23.1 | 43 | Cavit | 69.4 |
| | Santa Marcela (Pob.) | 24.0 | 43 | Zamboanga | 159.6 |
| 20 | San Miguel (Pob.) | 32.8 | 45 | Tangid | 131.2 |
| 21 | San Pedro (Pob.) | 8.0 | 46 | Nalbo | 105.2 |
| 22 | San Andres (Pob.) | 99.2 | II . | | 213.6 |
| 23 | San Matias (Pob.) | 10.0 | | Bengcag Cabungaan North | 157.0 |
| 24 | Nstra. Sra. De Consolacion (Pob.) | 10.8 | | Cabungaan South | 117.2 |
| 25 | Santa Cayetana (Pob.) | | | | 131.4 |
| 26 | San Marcelinno (Pob.) | 214.6 | | Darayday Raraburan | 69.6 |
| 27 | Nstra, Sra. De Soledad (Pob.) | 25.5 | | | 160.4 |
| 28 | Sán Bernardo (Pob.) | 101.1 106.5 | II . | Buttong Nangalisan East | 59.1 |
| 29 | Santo Tomas (Pob.) | 100.5 | | Nangalisan West | 31.3 |
| | | | | Lataag | 189.8 |
| | | 1 | | San Mateo | 46.2 |
| ÷. | | | 52 - A 53 | | 216.0 |
| | | | | Rioeng Camangaan | 143.4 |
| : . | | | | Lagui-Sail | 596.3 |
| | | | | Barit-Pandan | 312.6 |
| | | | | Salet-Bulangon | 377.0 |
| | | | 55 - C | | 248.3 |
| | \$ | | | Bacsil North | 352.7 |
| | | 1. | | Bacsil South | 510.9 |
| | ÷. | | 57 | Pila | 272.1 |
| | | | 58 | Casili | 99.2 |
| | | ĺ | | Oibua North | 202.5 |
| | | | | Dibua South | 214.1 |
| | | | | Caaoacan | 49.3 |
| | | | | | 369.7 |
| | | | | Maditadig | |
| | | | 61 | Cataban Novetee North | 148.6 |
| . 1 | | | | Navotas North | 80.3 166.7 |
| | 0.1.7.11 | 1000 7 | 62 - B | Navotas South | |
| | Sub Total | 1,093.7 | l | Sub Total | 9,153.0 |
| | Total | J | | 10,246.7 | |

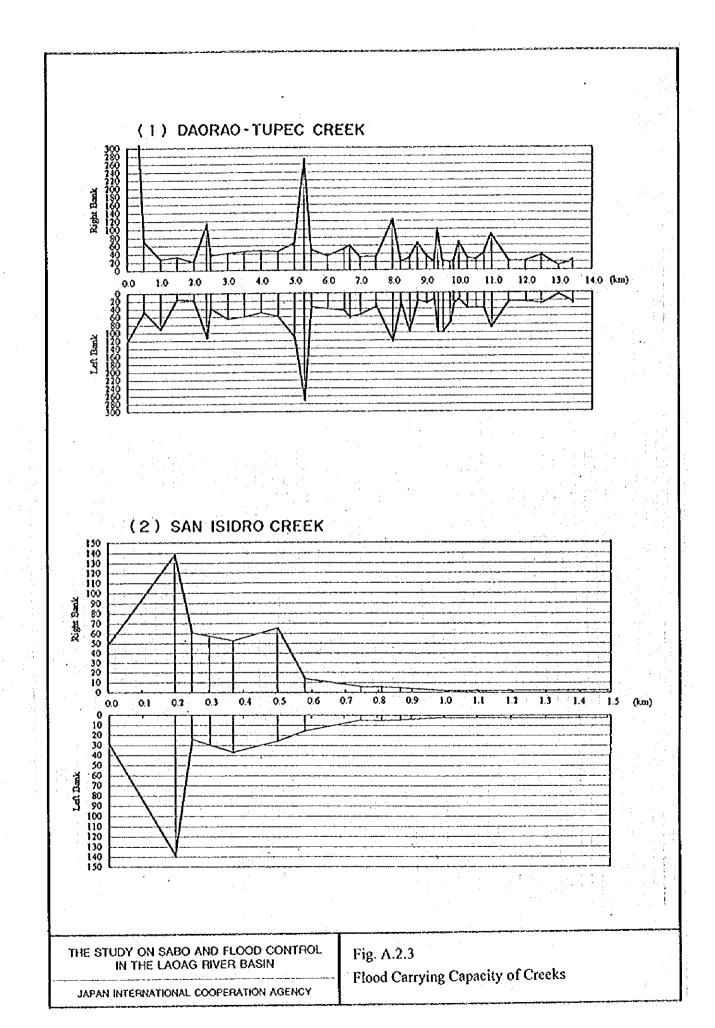
| THE STUDY ON SABO AND FLOOD CONTROL IN THE LAOAG RIVER BASIN | Fig. A.1.4 (3) Administrative Boundary of Laoag City |
|---|--|
| JAPAN INTERNATIONAL COOPERATION AGENCY | (List of Barangay Names) |

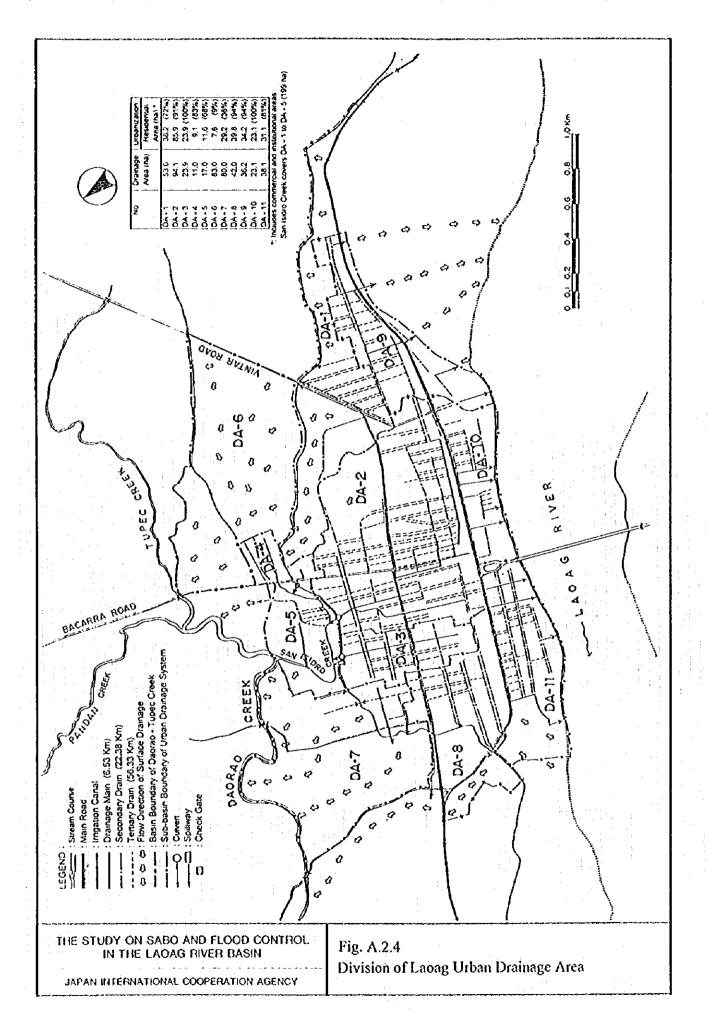


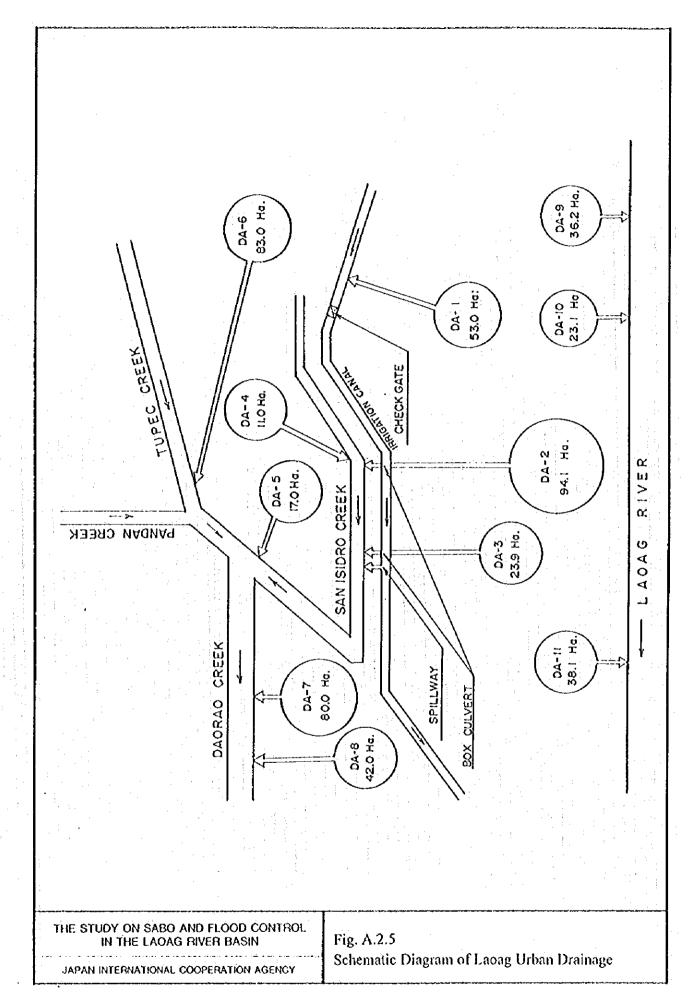




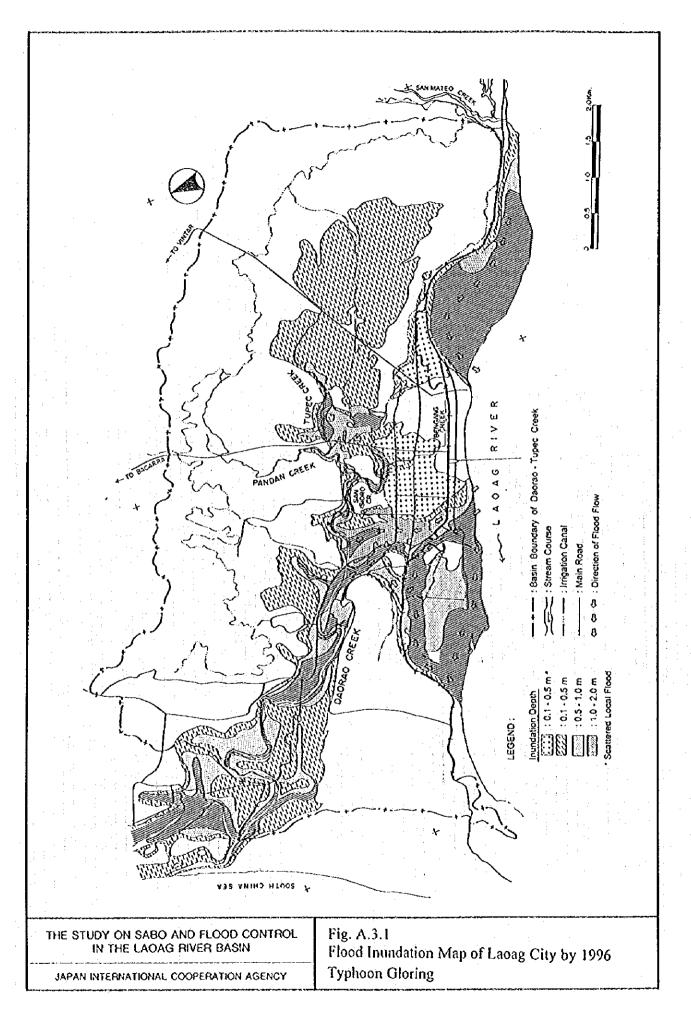


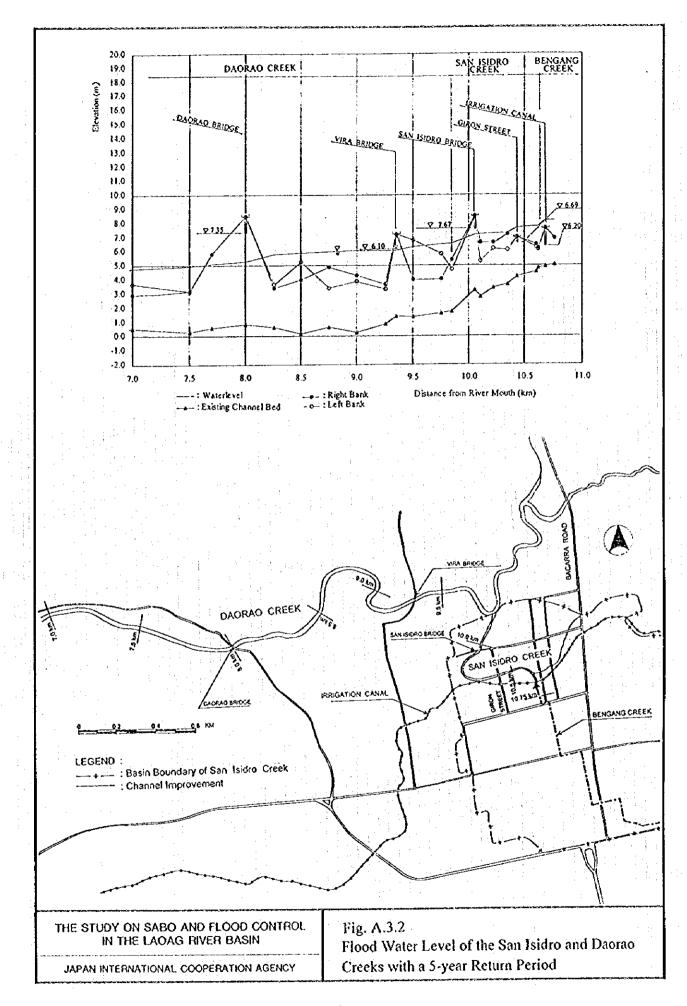


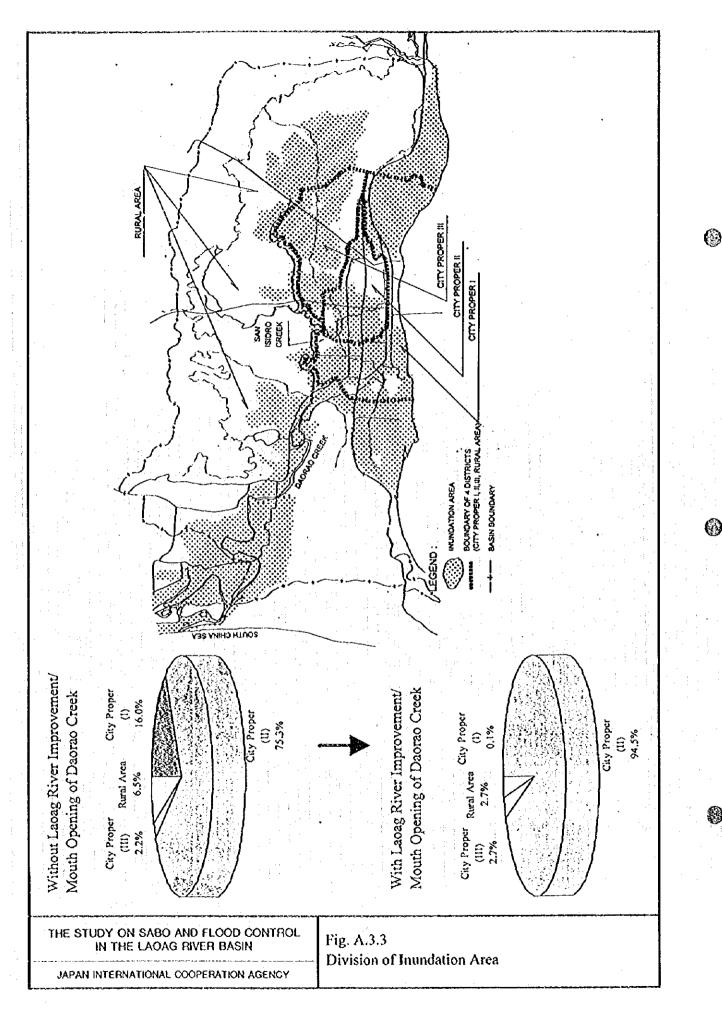


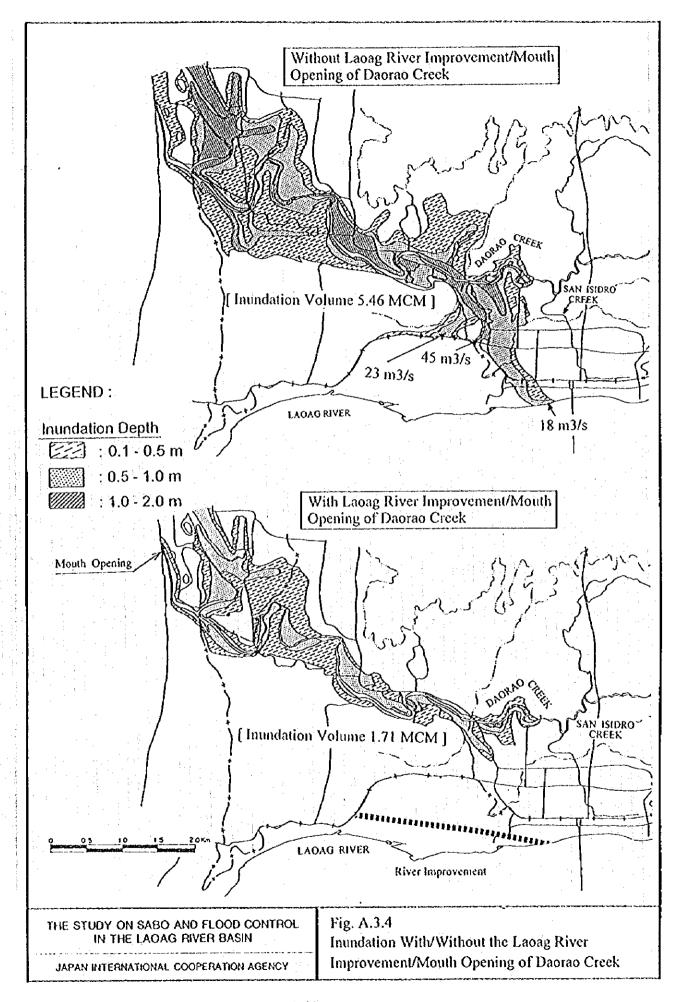


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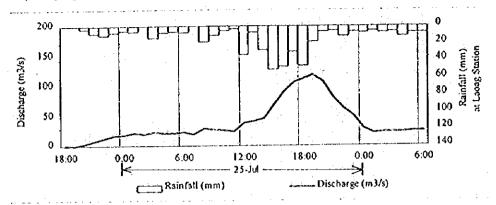




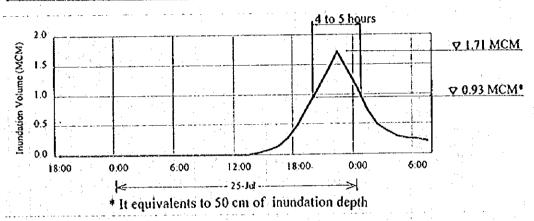




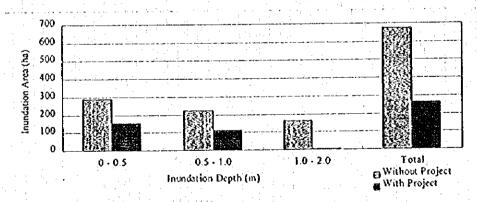




Inundation Volume in the Downstream of Daorao Creek



Inundation Area in the Downstream of Daorao Creek



Inundation Area (ha)

| Inudation Depth (m) | 0.1 - 0.5 | 0.5 - 1.0 | 1.0 - 2.0 | Total |
|---------------------|-----------|-----------|-----------|-------|
| Without Project | 291 | 224 | 161 | 676 |
| With Project | 150 | 111 | 4 | 265 |

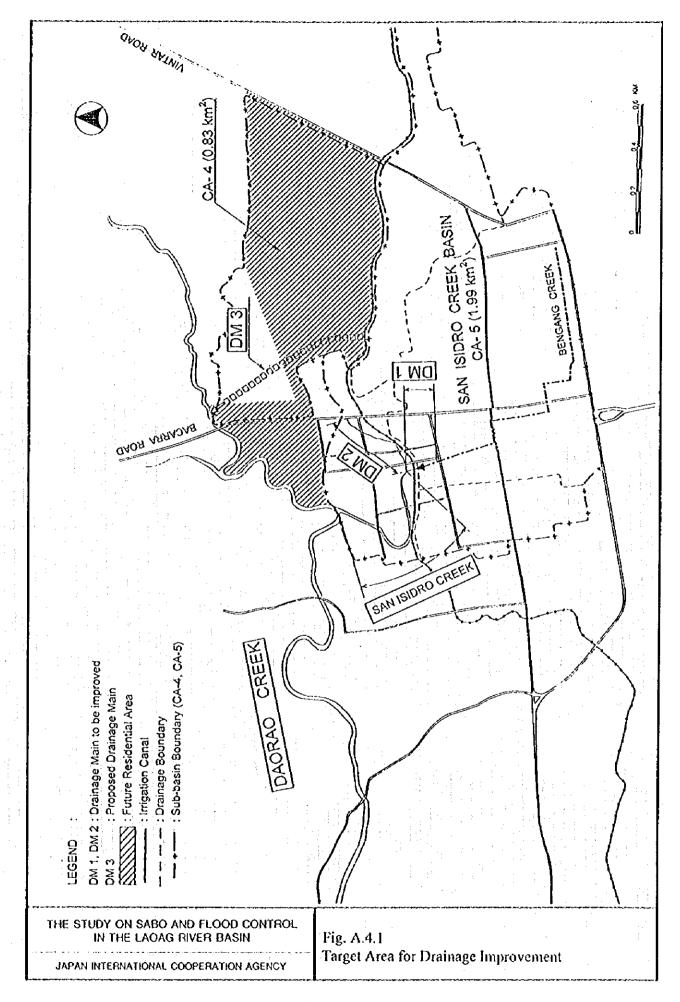
Project: Protection work of overflow of the Laoag River opening work of the river mouth of the Daorao Creek

THE STUDY ON SABO AND FLOOD CONTROL IN THE LAOAG RIVER BASIN

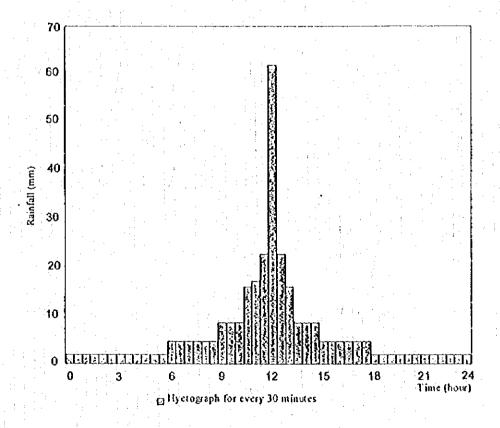
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. A.3.5

Inundation Volume and Area With/Without the Laoag River Improvement/Mouth Opening of Daorao Creek



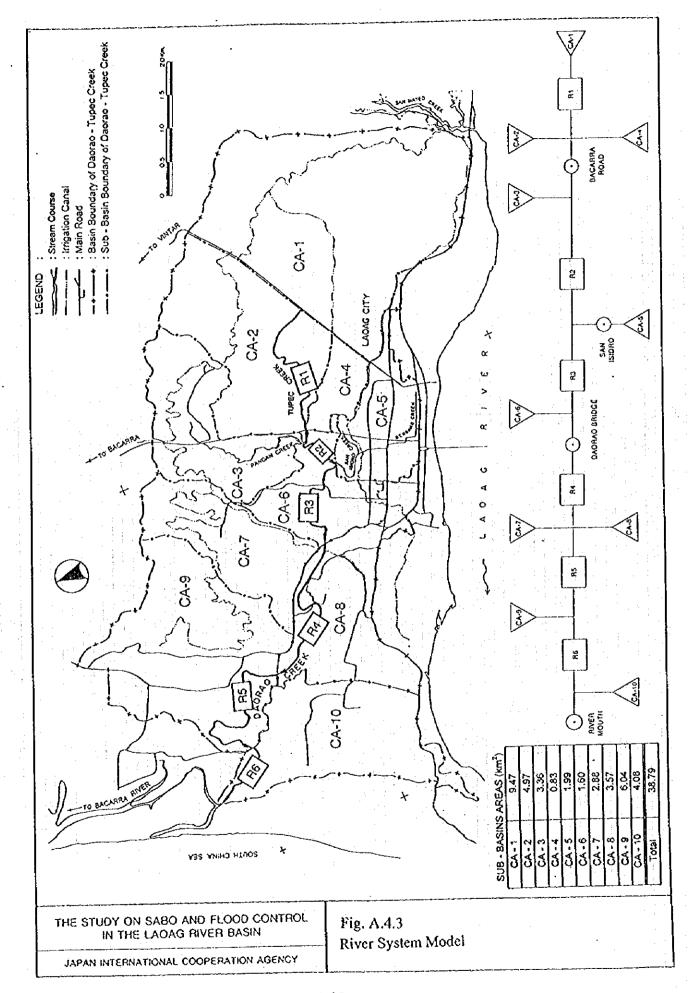
| Time | Rainfall | Time | Rainfall | Time | Rainfall | Time | Rainfall |
|--------|-----------------|--------|----------|--------|----------|--------|----------|
| (hour) | (mm) | (hour) | (mm) | (hour) | (mm) | (hour) | (mm) |
| 0.5 | 2.0 | 6.5 | 4.8 | 12.5 | 62.0 | 18.5 | 2.0 |
| 1.0 | 2.0 | 7.0 | 4.8 | 13.0 | 22.9 | 19.0 | 2.0 |
| 1.5 | 2.0 | 7.5 | 4.8 | 13.5 | 16.2 | 19.5 | 2.0 |
| 2.0 | 2.0 | 8.0 | 4.8 | 14.0 | 8.6 | 20.0 | 2.0 |
| 2.5 | 2.0 | 8.5 | 4.8 | 14.5 | 8.6 | 20.5 | 2.0 |
| 3.0 | 2.0 | 9.0 | 4.8 | 15.0 | 8.6 | 21.0 | 2.0 |
| 3.5 | 2.0 | 9.5 | 8.6 | 15.5 | 4.8 | 21.5 | 2.0 |
| 4.0 | 2.0 | 10.0 | 8.6 | 16.0 | 4.8 | 22.0 | 2.0 |
| 4.5 | 2.0 | 10.5 | 8.6 | 16.5 | 4.8 | 22.5 | 2.0 |
| 5.0 | 2.0 | 11.0 | 16.2 | 17.0 | 4.8 | 23.0 | 2.0 |
| 5.5 | 2.0 | 11.5 | 17.4 | 17.5 | 4.8 | 23.5 | 2.0 |
| 6.0 | 2.0 | 12.0 | 22.8 | 18.0 | 4.8 | 24.0 | 2.0 |
| | Total = 314.7mm | | | | | | |

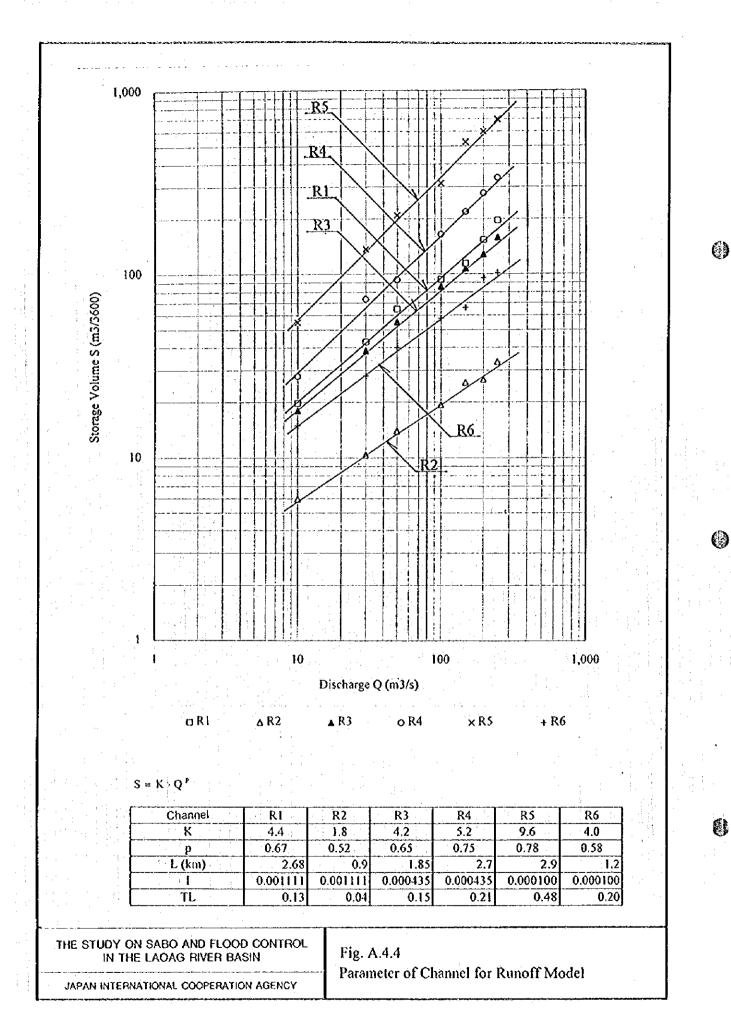


THE STUDY ON SABO AND FLOOD CONTROL IN THE LAOAG RIVER BASIN

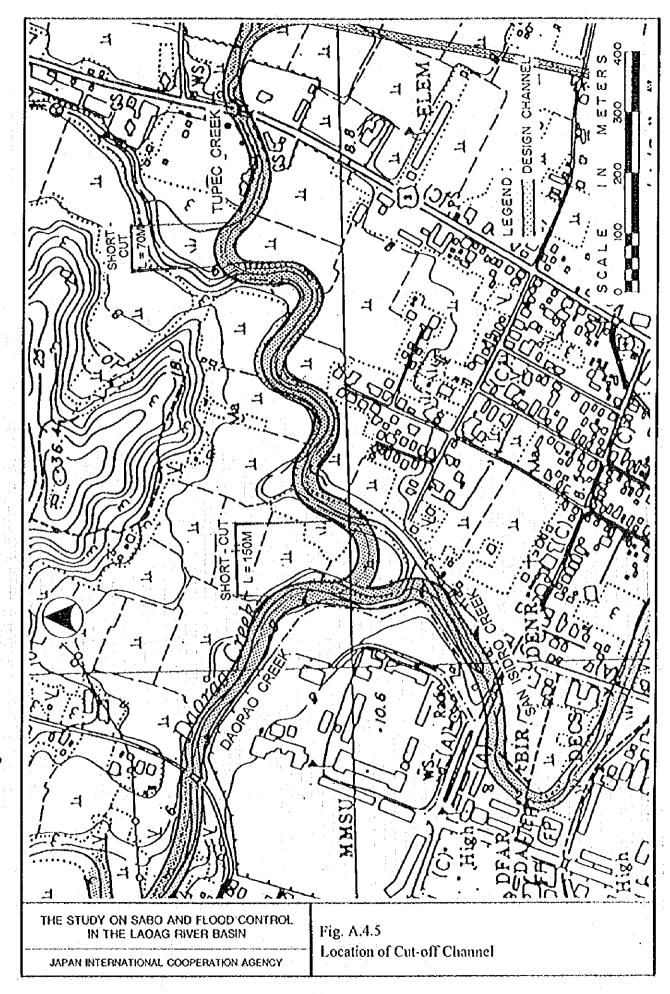
JAPAN INTERNATIONAL COOPERATION AGENCY

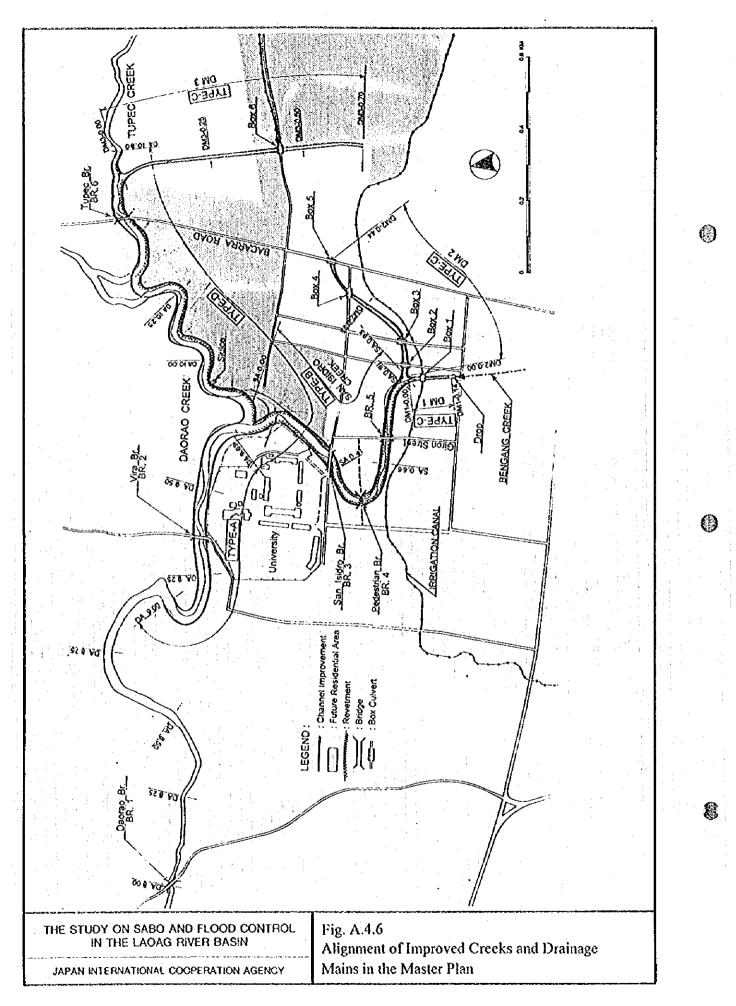
Fig. A.4.2 Model Hyetograph (Point Rainfall)



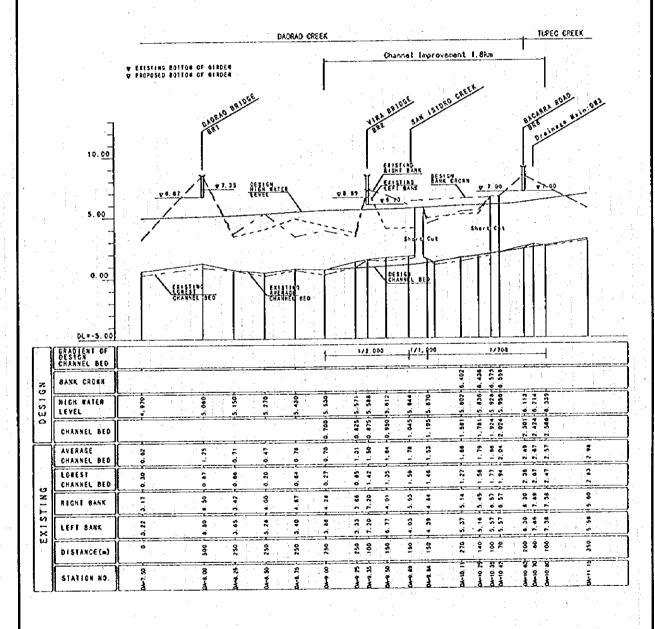


A-96





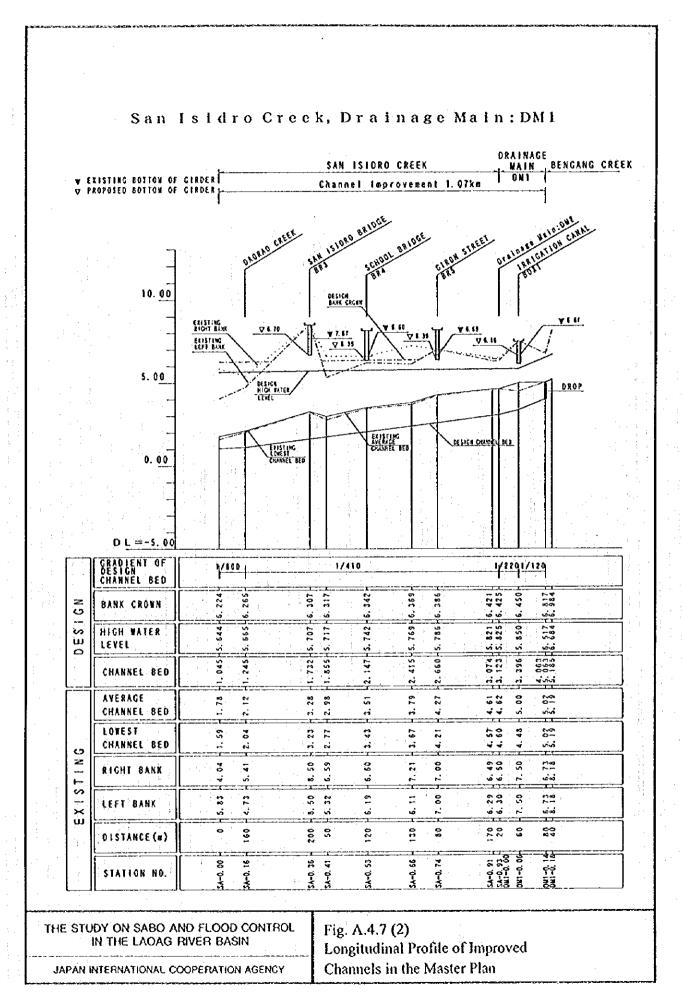
Daorao-Tupec Creek

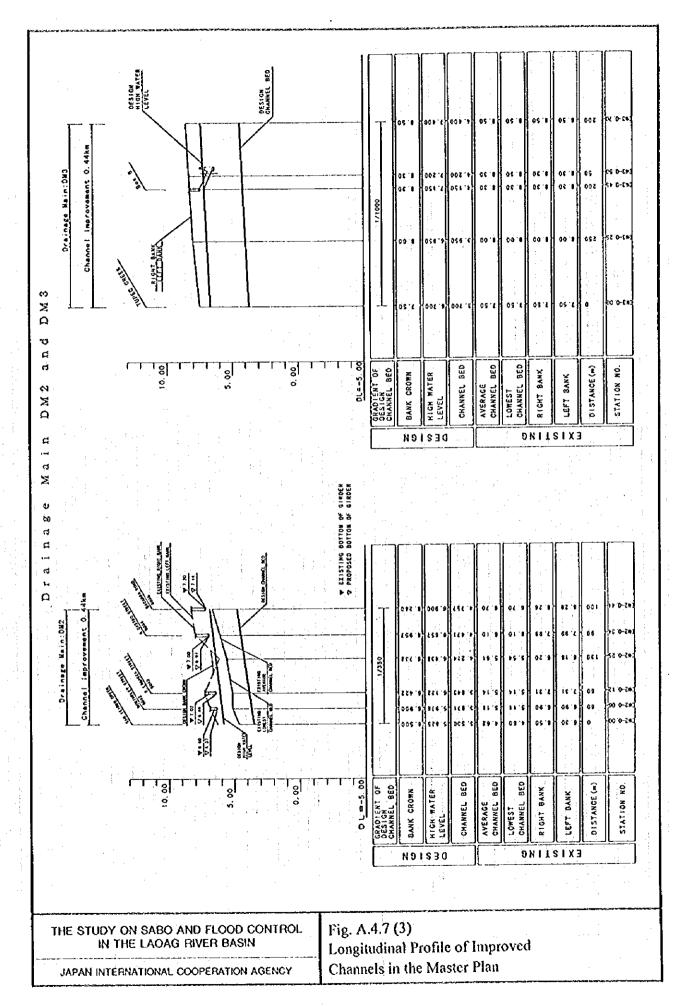


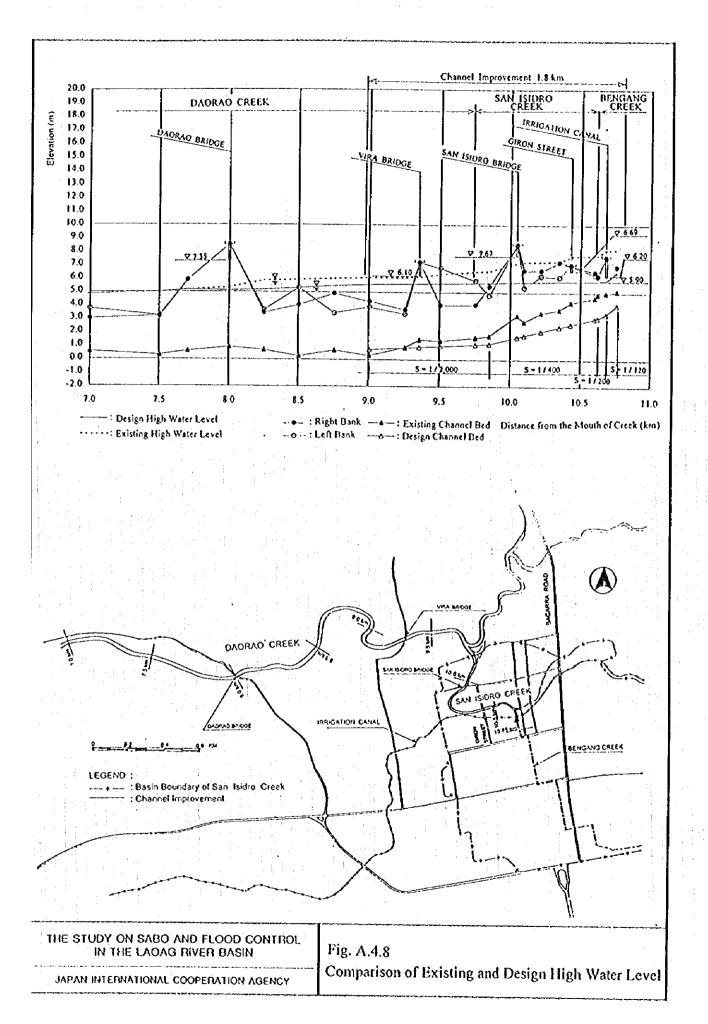
THE STUDY ON SABO AND FLOOD CONTROL IN THE LAOAG RIVER BASIN

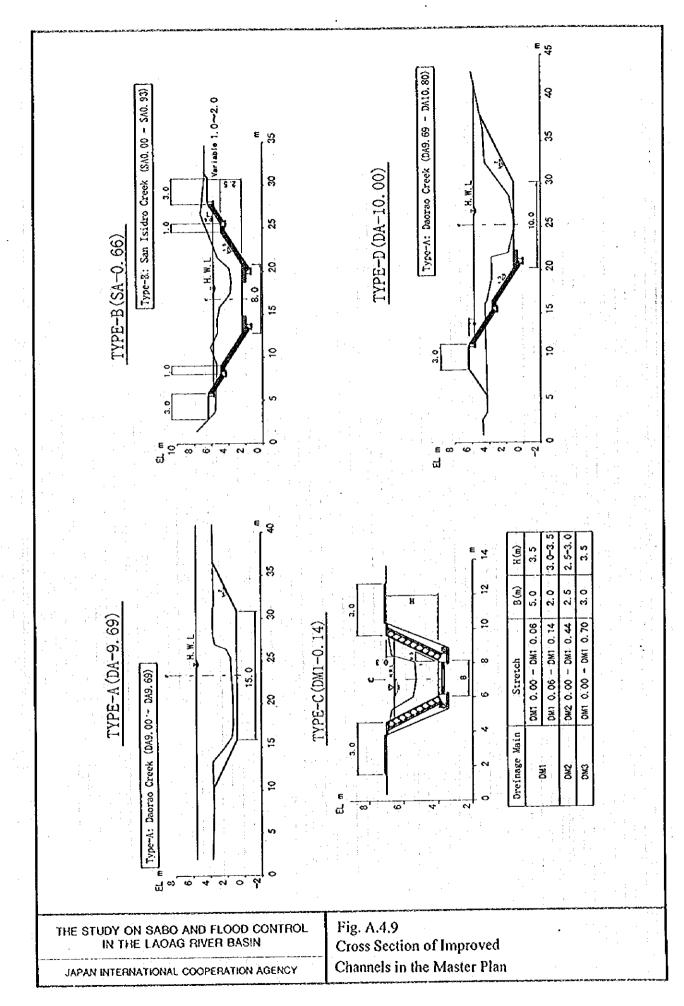
JAPAN INTERNATIONAL COOPERATION AGENCY

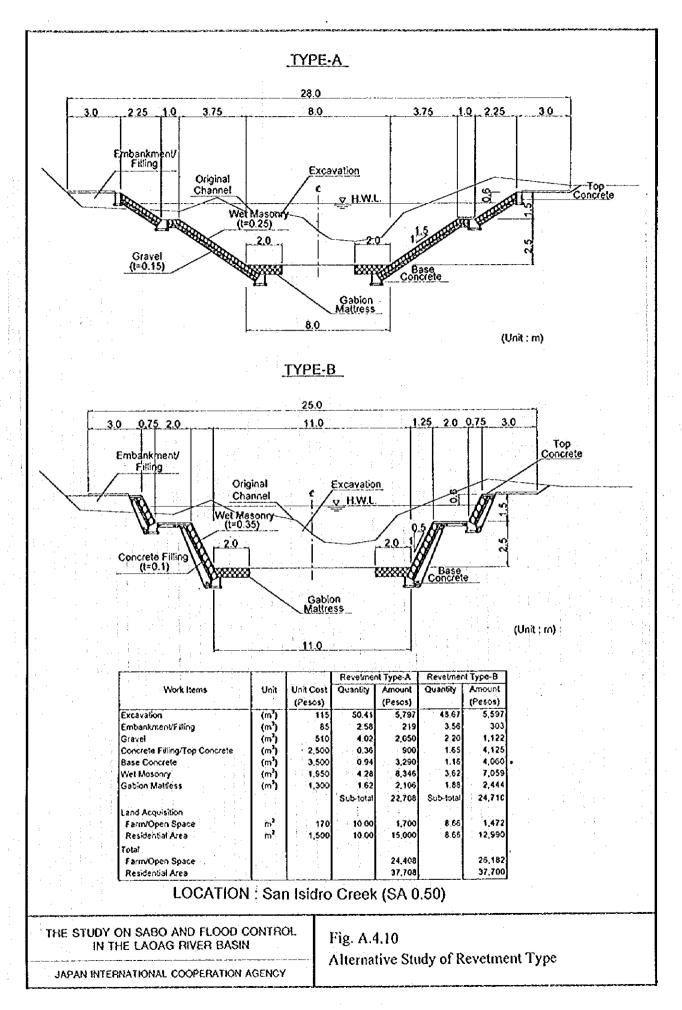
Fig. A.4.7 (1)
Longitudinal Profile of Improved
Channels in the Master Plan

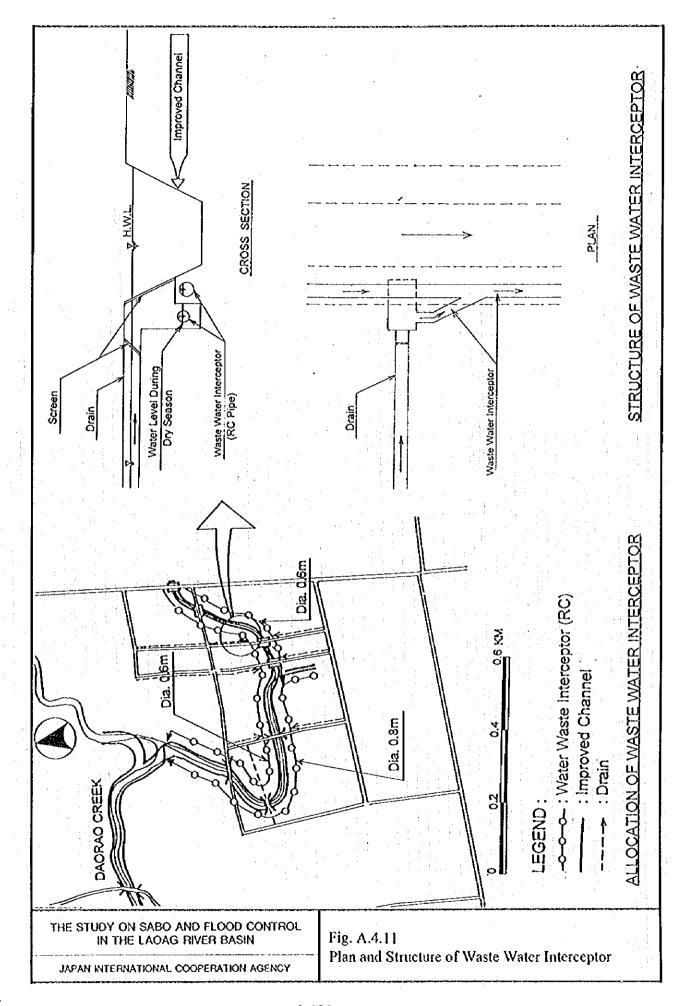






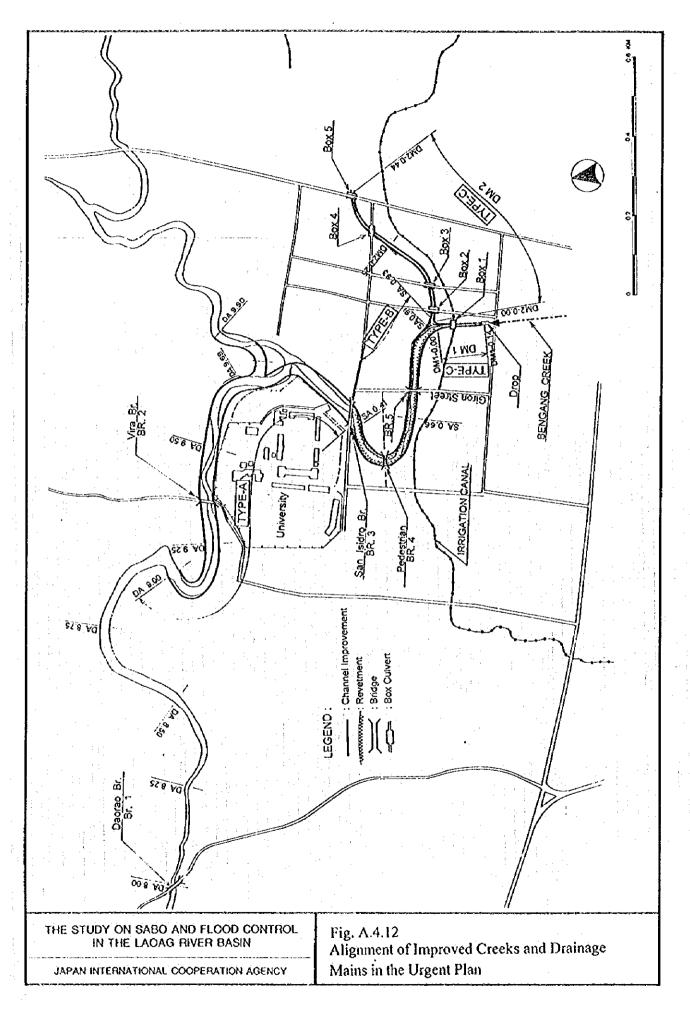


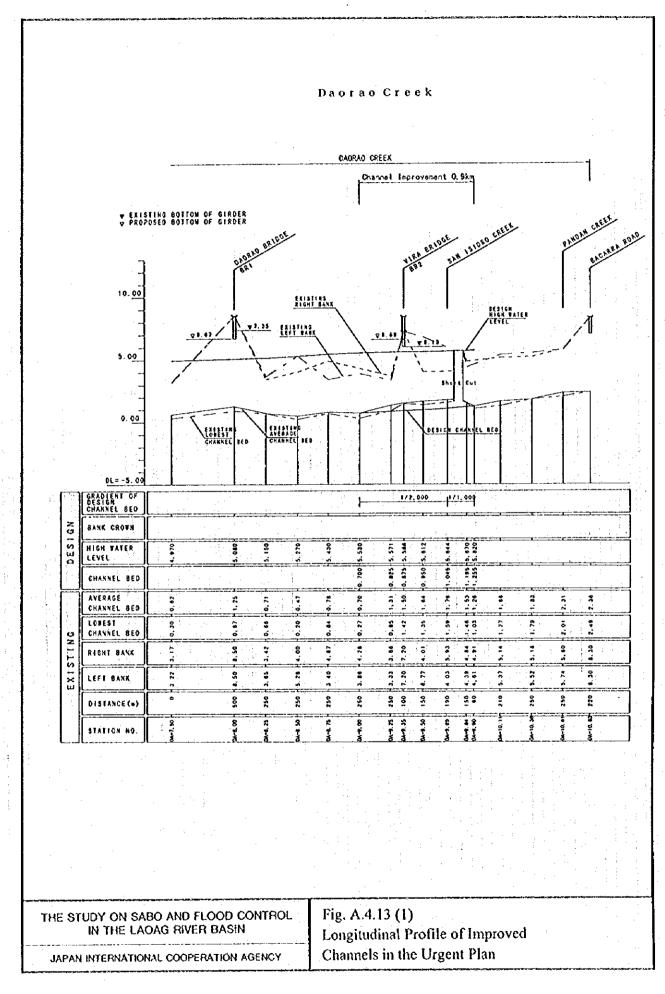




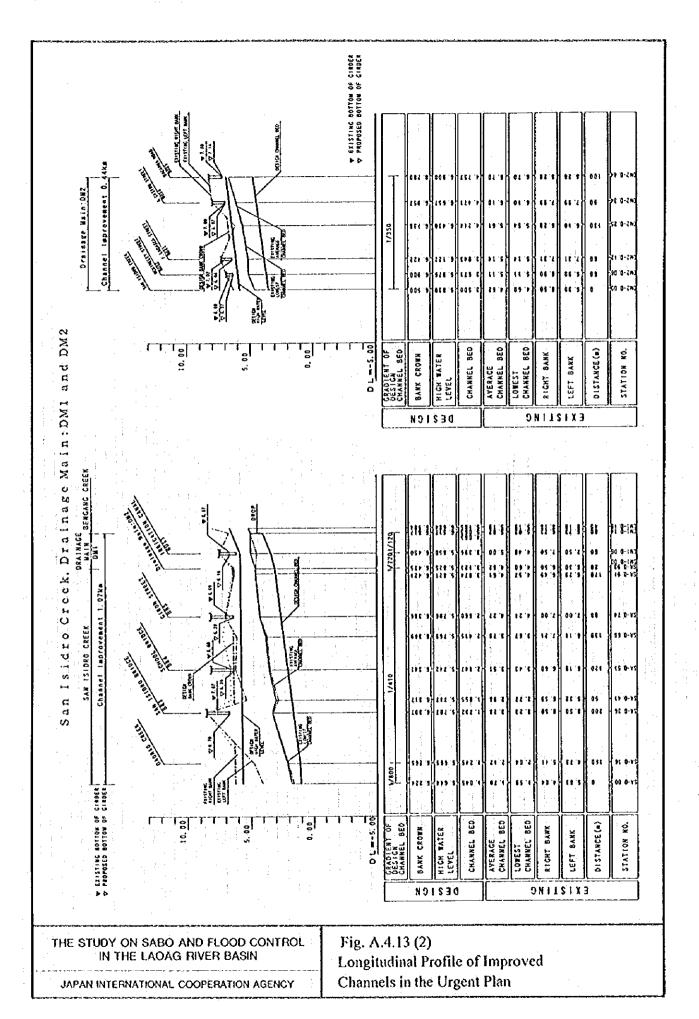
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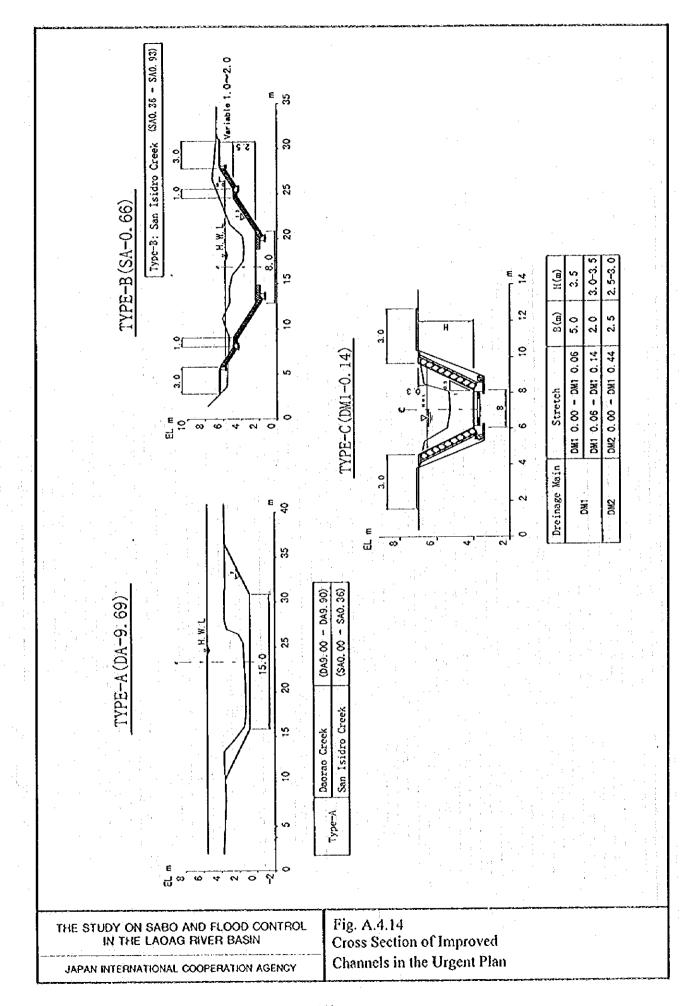
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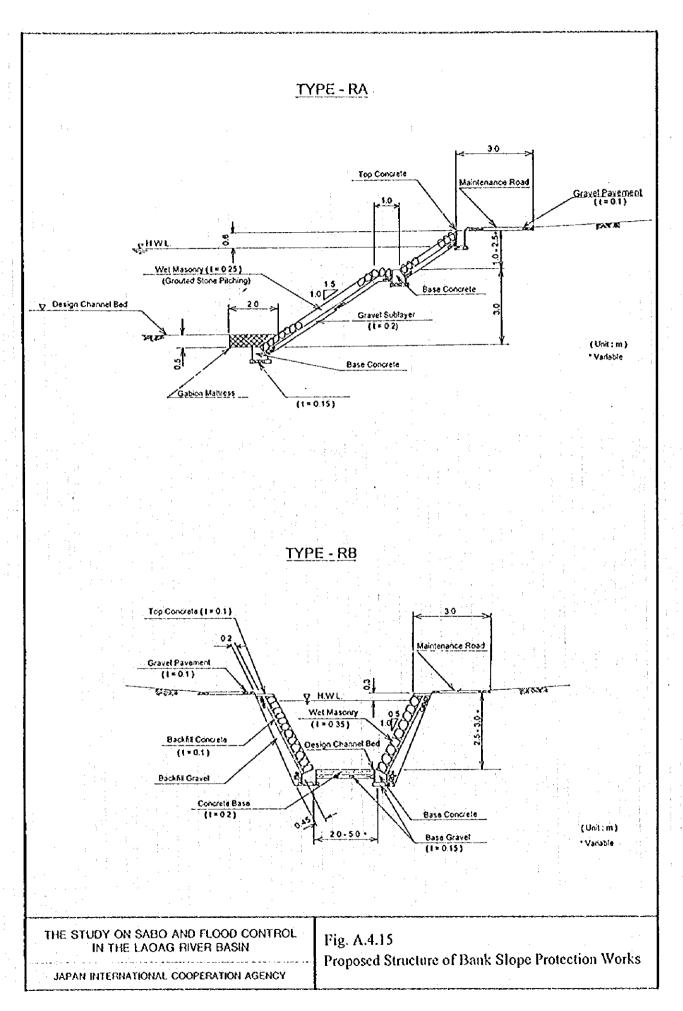
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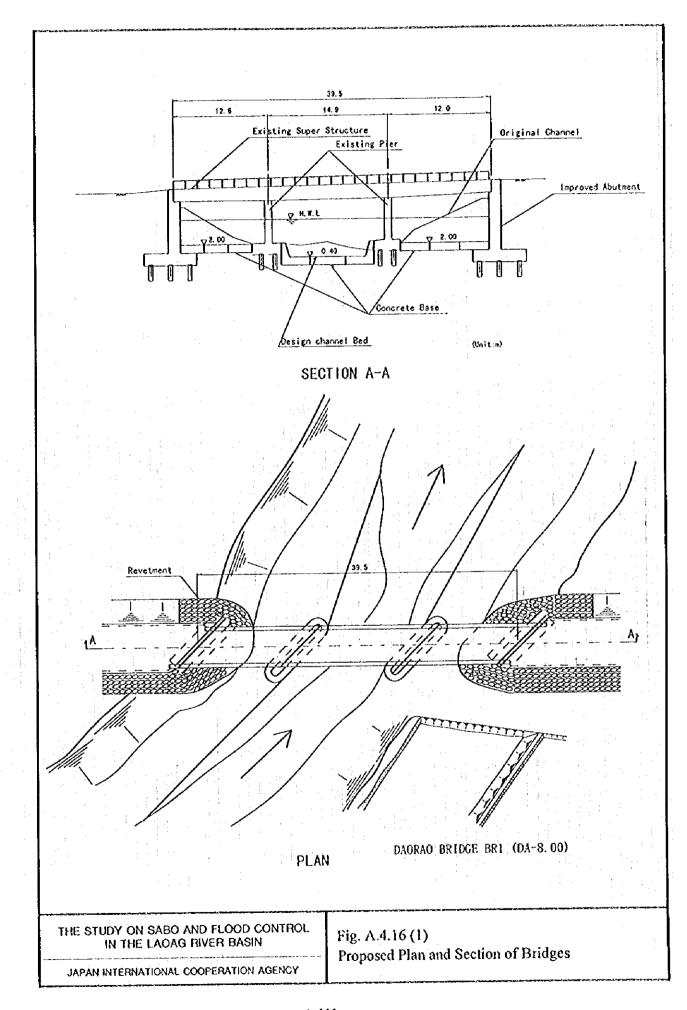




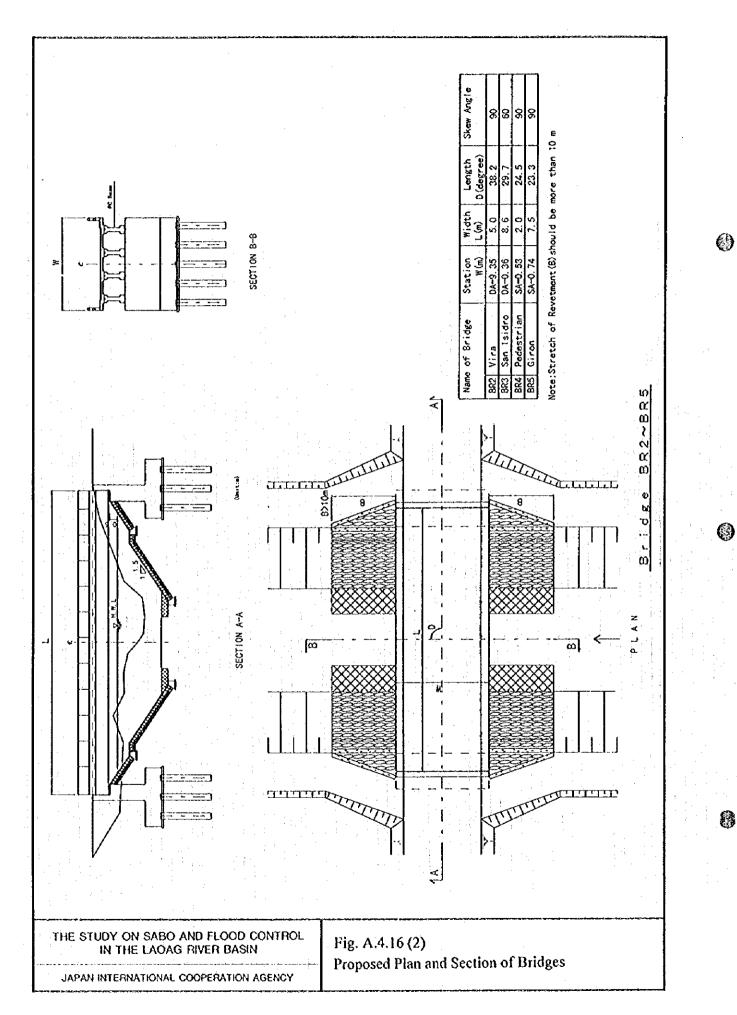
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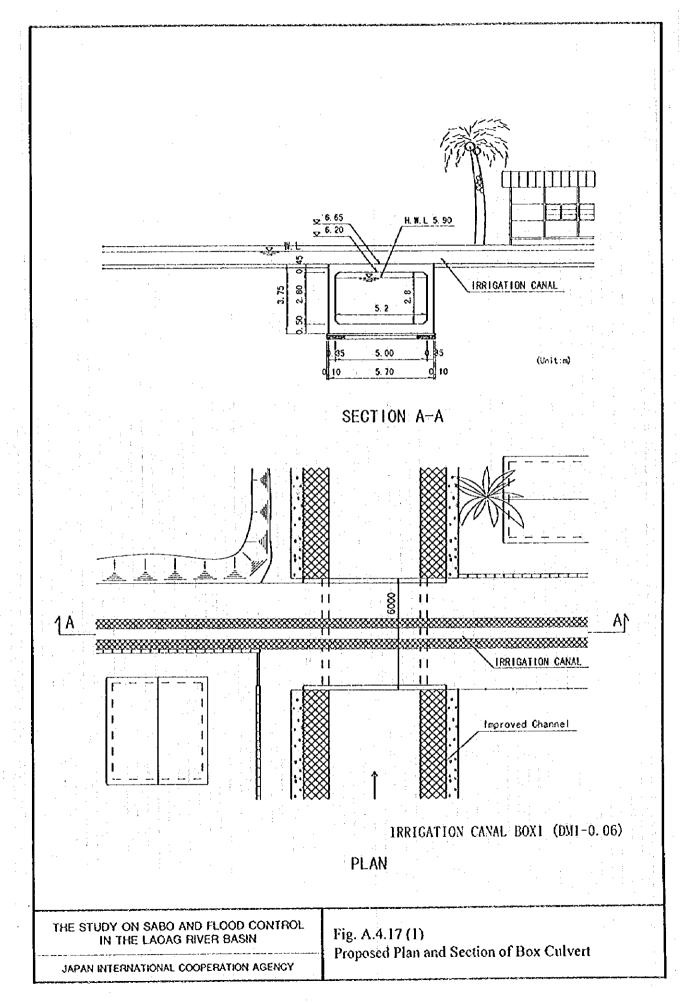
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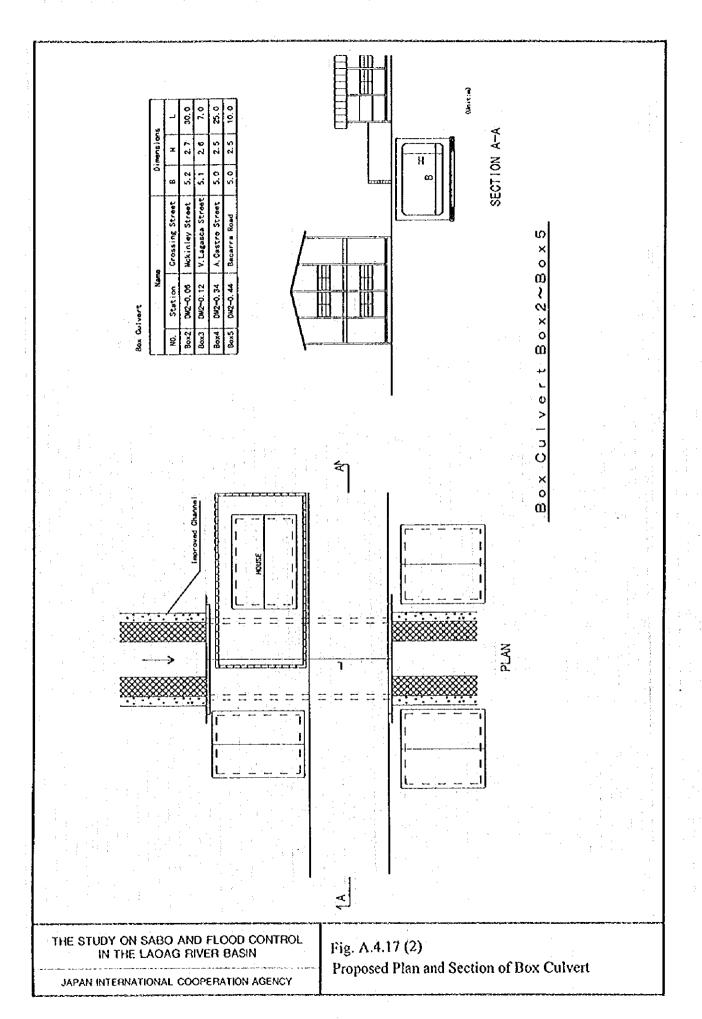


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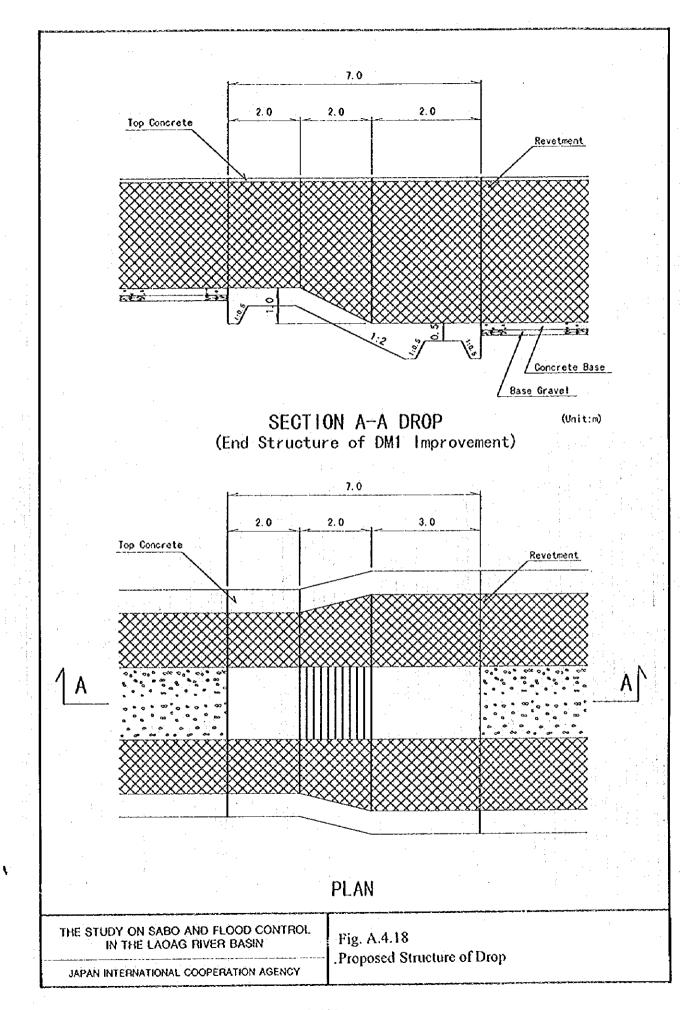




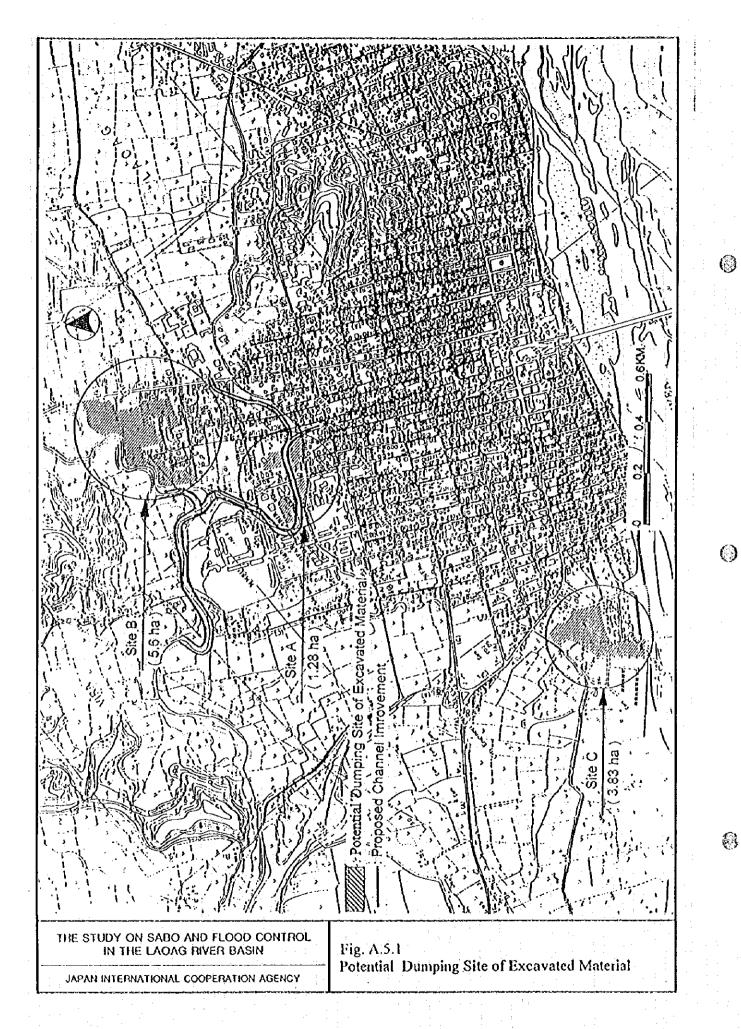
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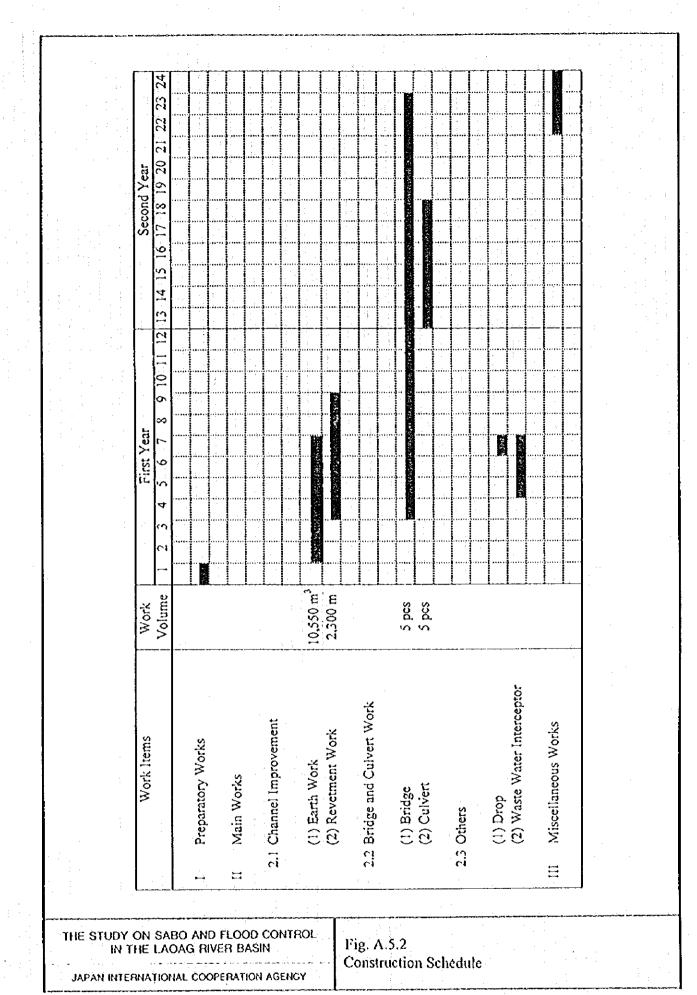


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