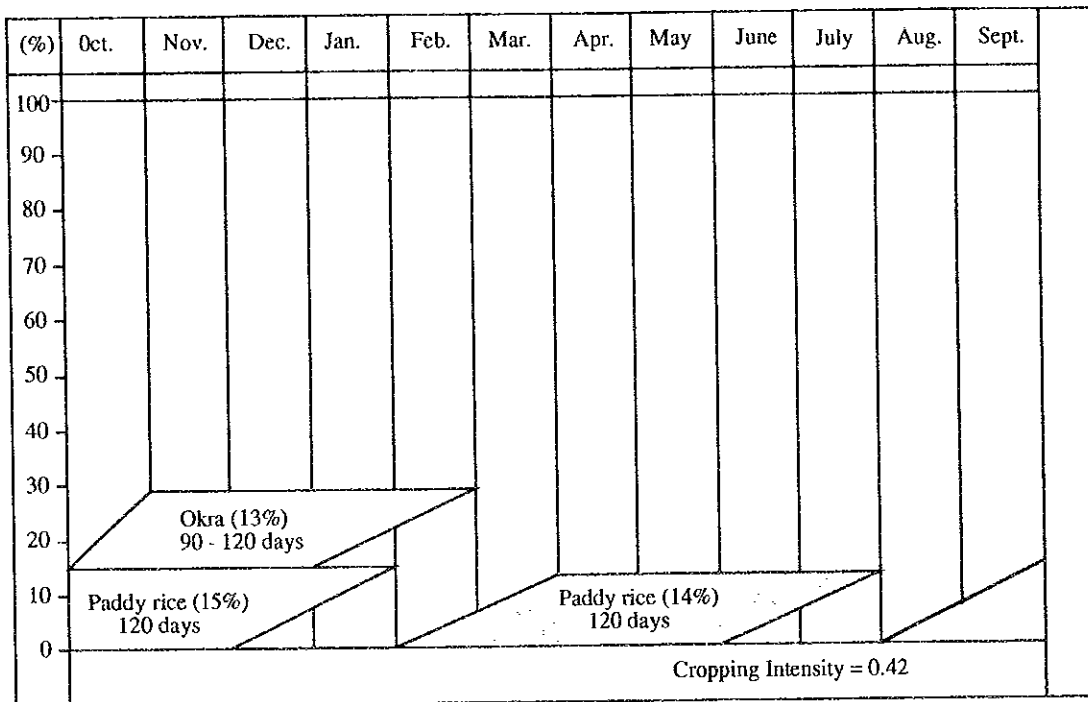
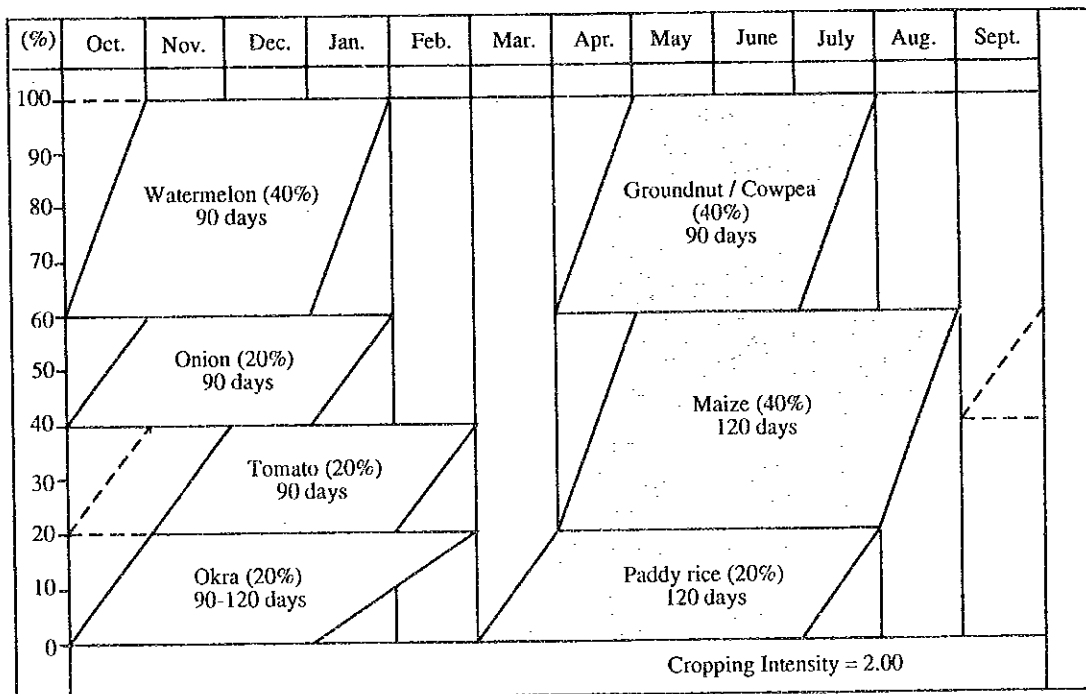


FIGURES



Present Cropping Pattern

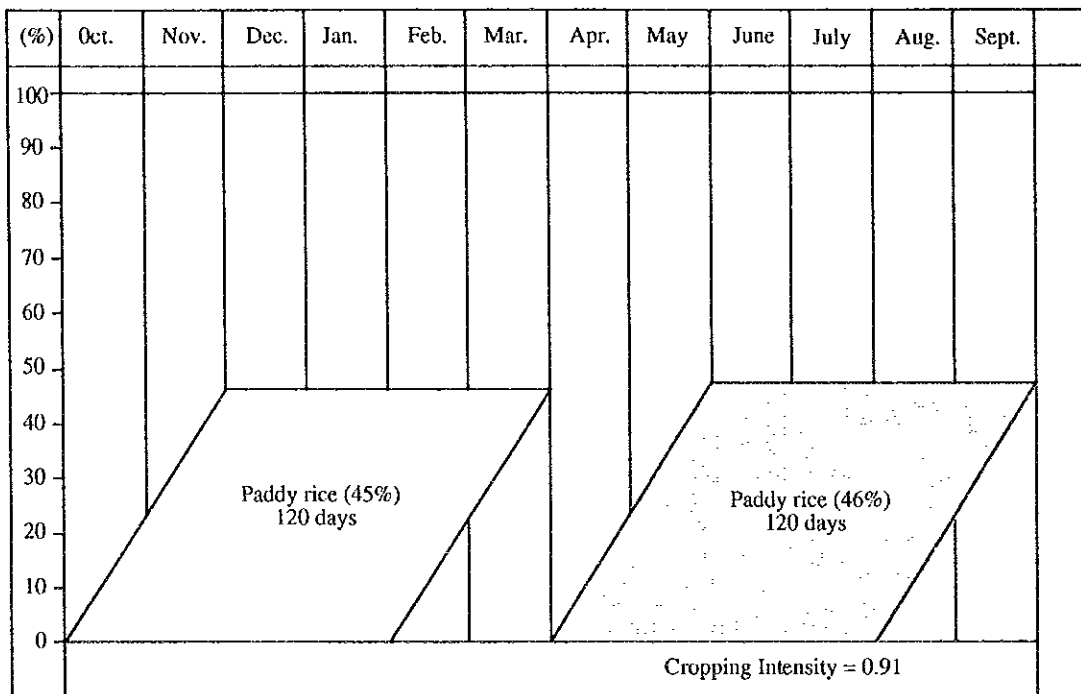


Proposed Cropping Pattern

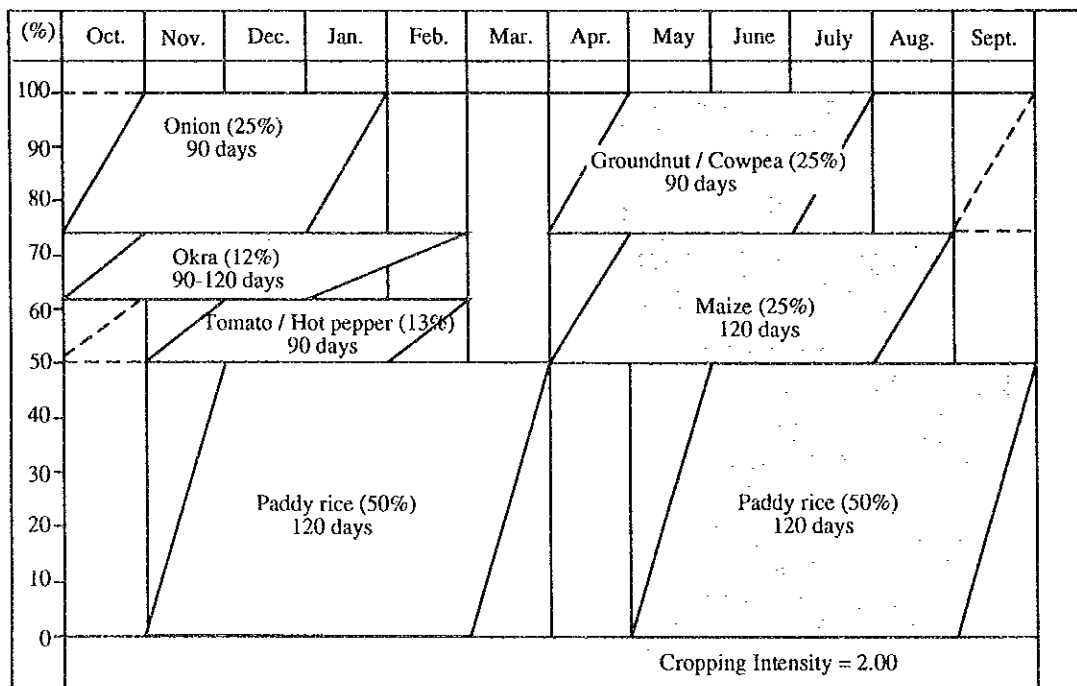
Figure H-1
Present and Proposed Cropping Pattern at Ashaiman Project

THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECT IN THE REPUBLIC OF GHANA

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Present Cropping Pattern

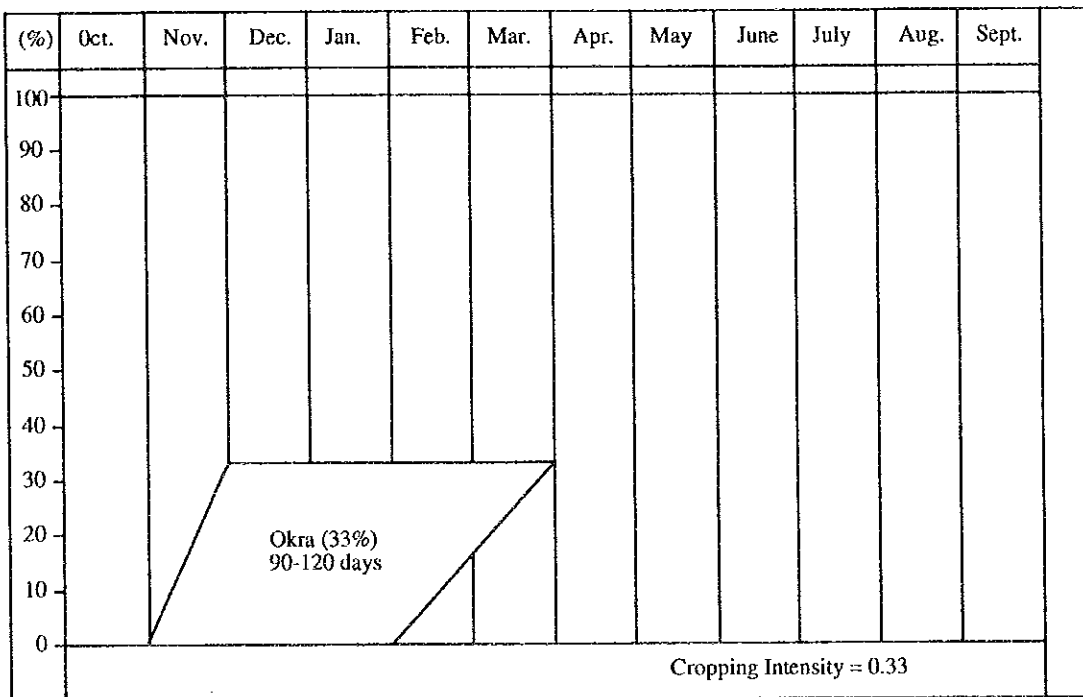


Proposed Cropping Pattern

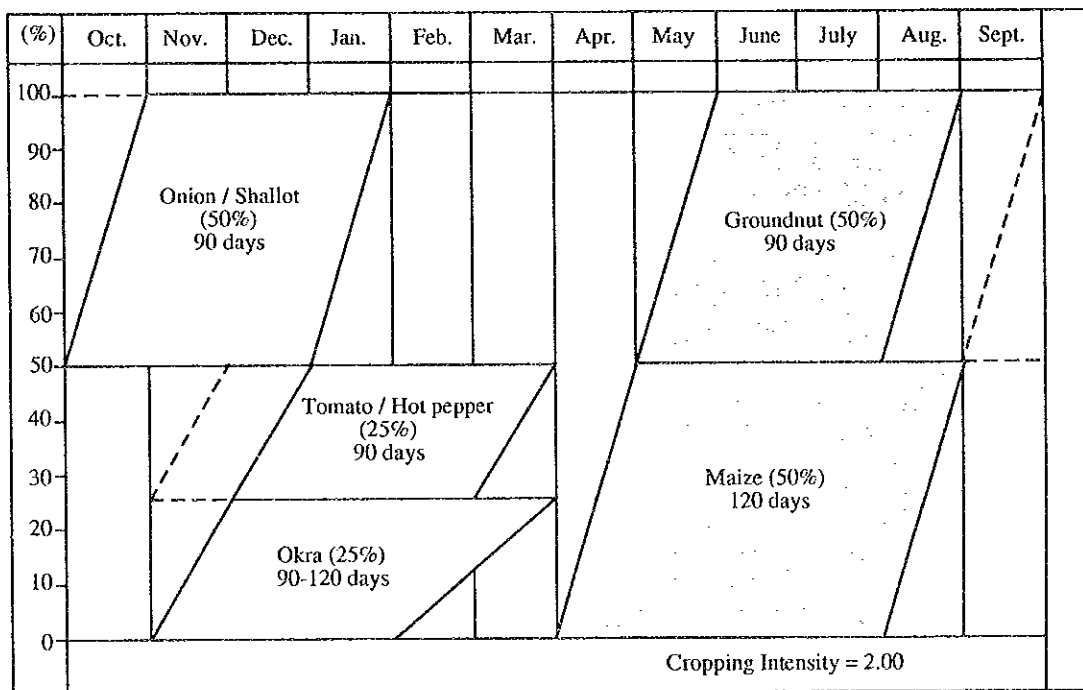
Figure H-2
Present and Proposed Cropping Pattern at Aveyime Project

THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECT IN THE REPUBLIC OF GHANA

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Present Cropping Pattern

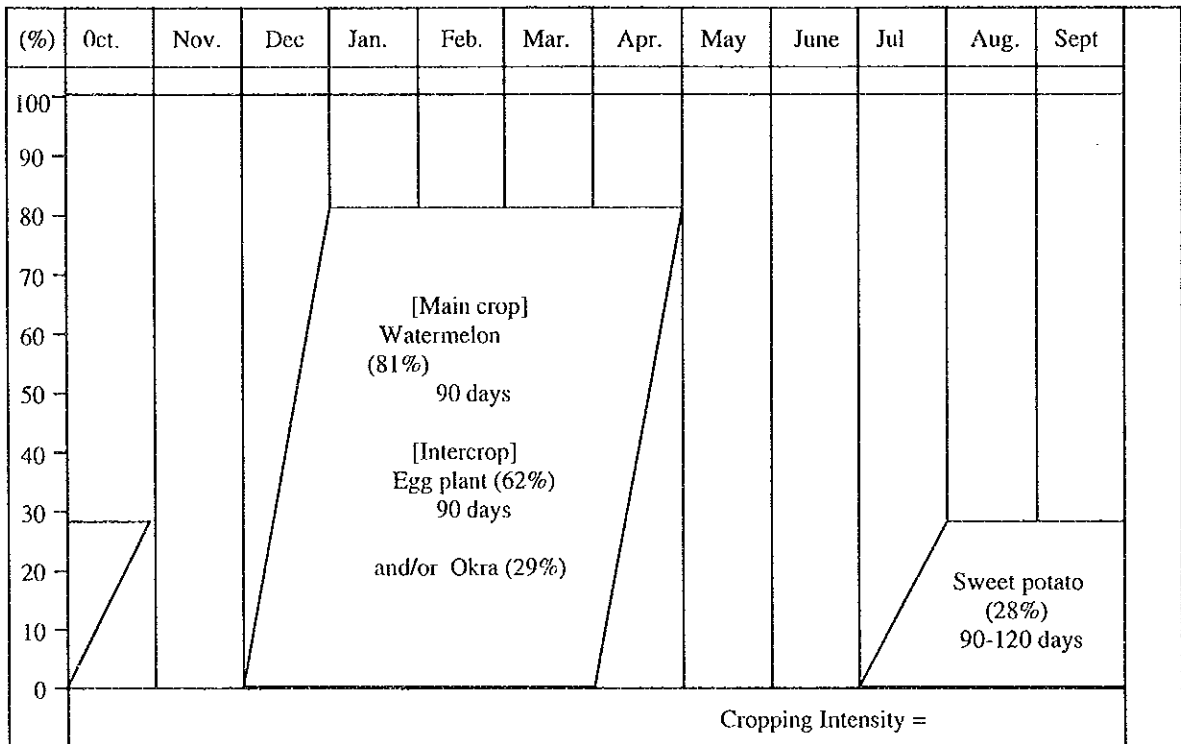


Proposed Cropping Pattern

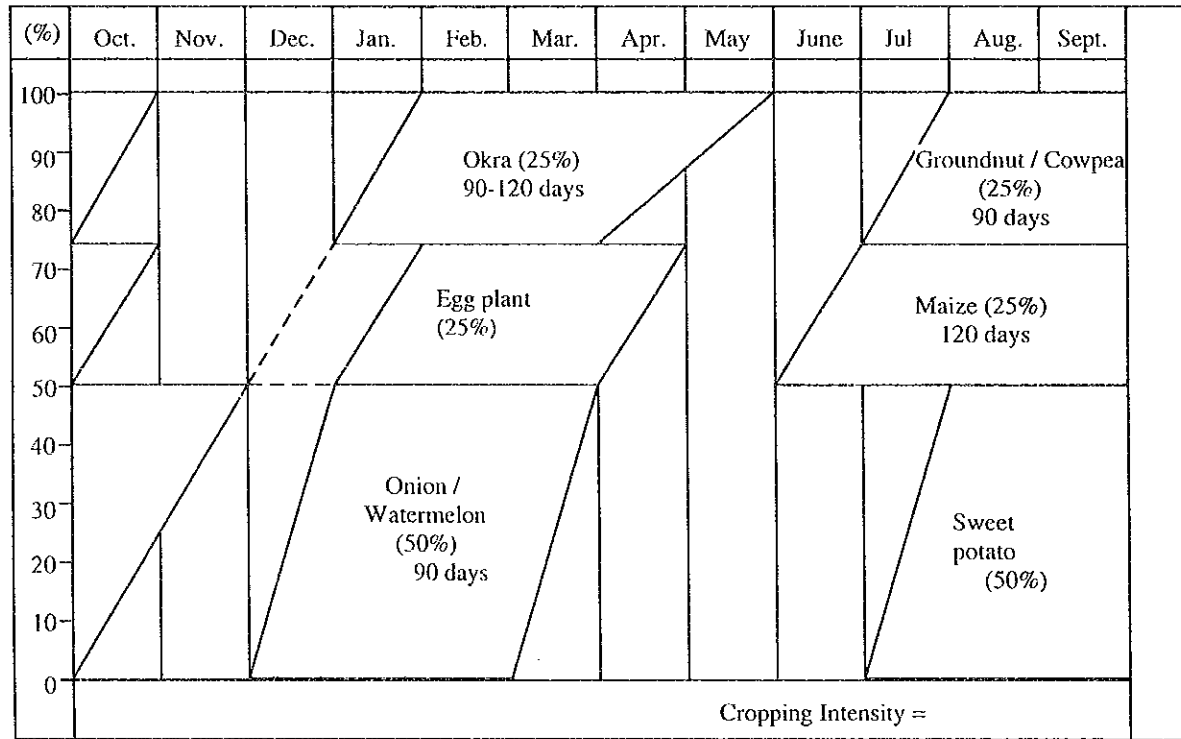
Figure H-3
Present and Proposed Cropping
Pattern at Kpando-Torkor Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECT
IN THE REPUBLIC OF GHANA

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Present Cropping

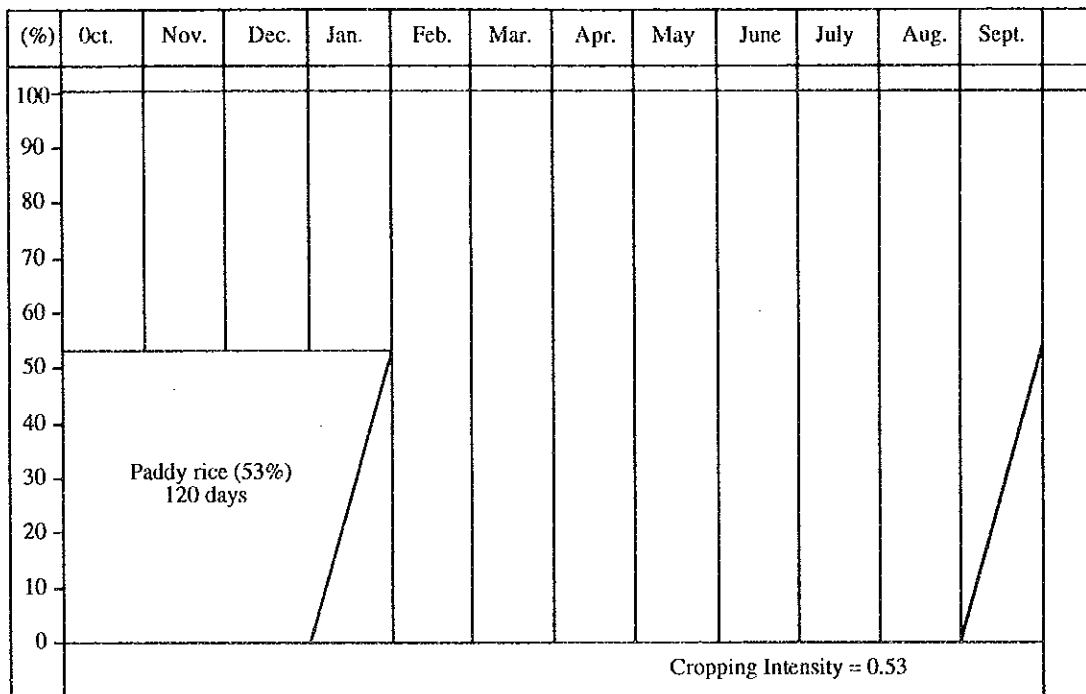


Proposed Cropping Pattern

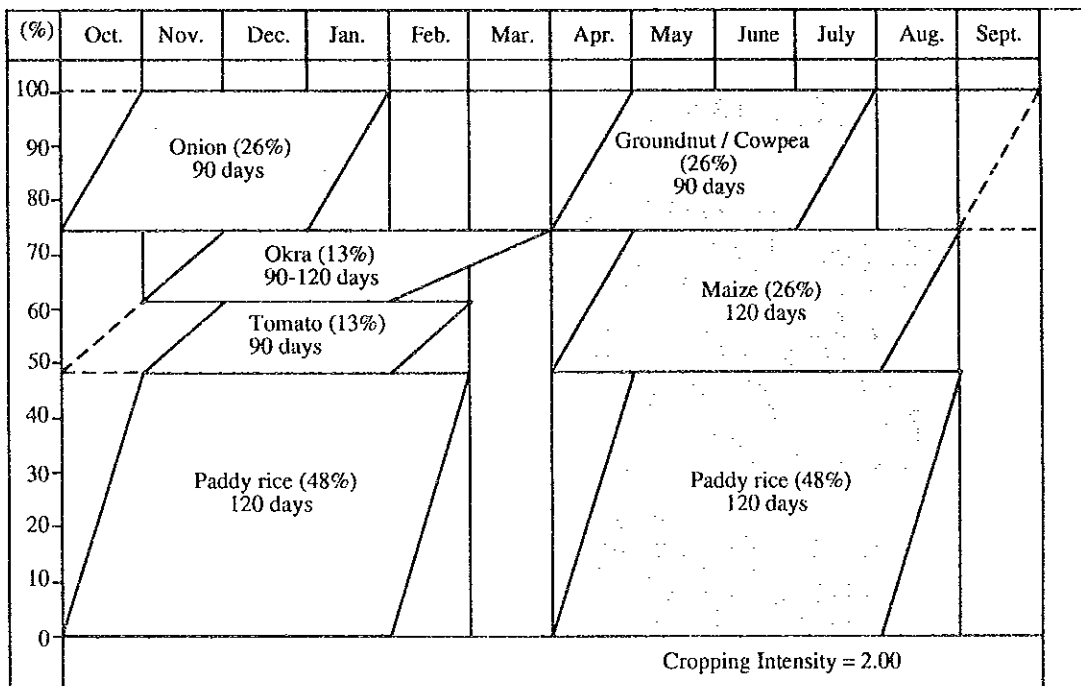
Figure H-4
Present and Proposed Cropping
Pattern at Mankessim Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECT
IN THE REPUBLIC OF GHANA

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Present Cropping Pattern



Proposed Cropping Pattern

Figure H-5
Present and Proposed Cropping
Pattern at Okyereko Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECT
IN THE REPUBLIC OF GHANA

Japan International Cooperation Agency

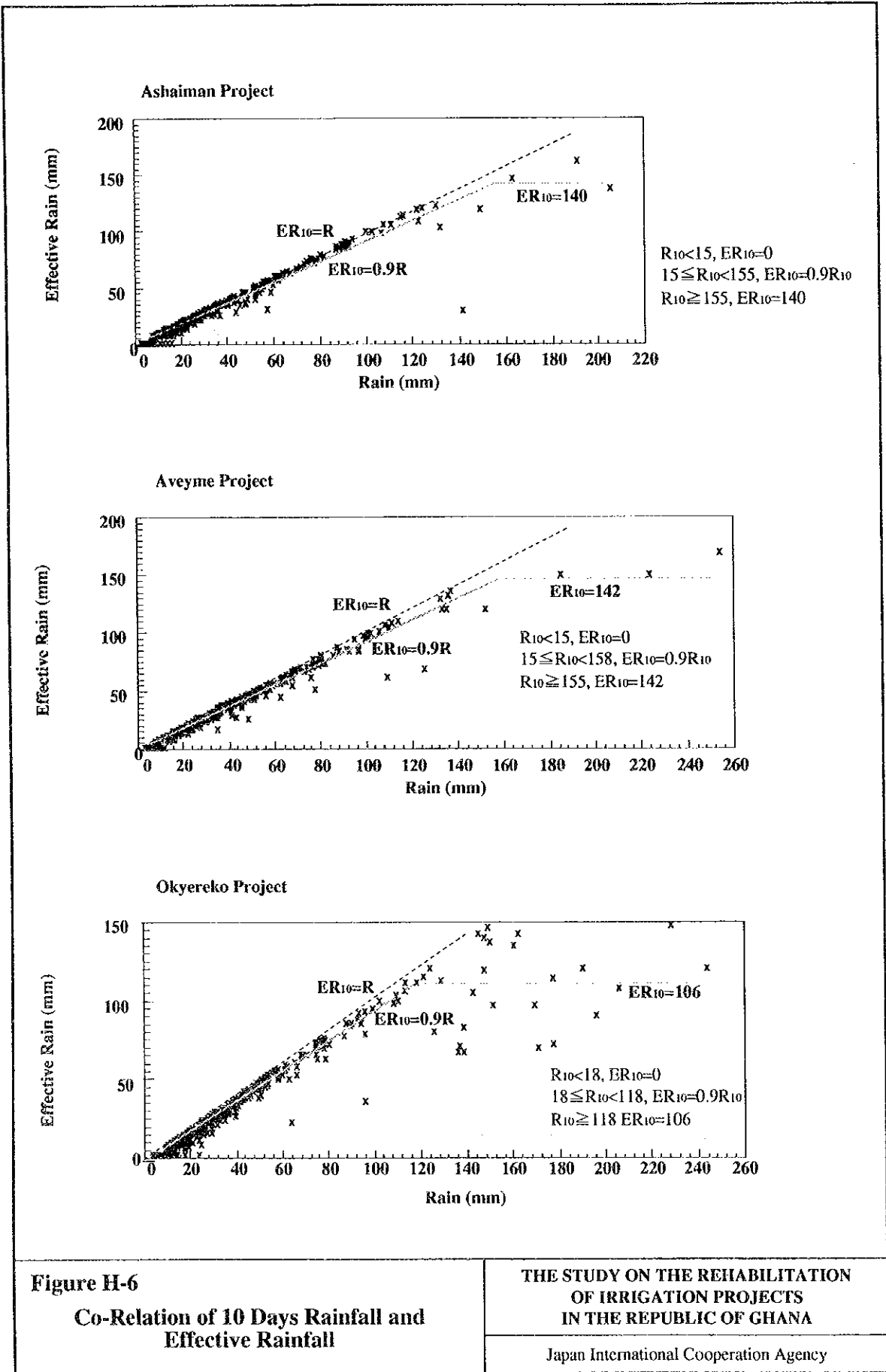


Figure H-6
Co-Relation of 10 Days Rainfall and Effective Rainfall

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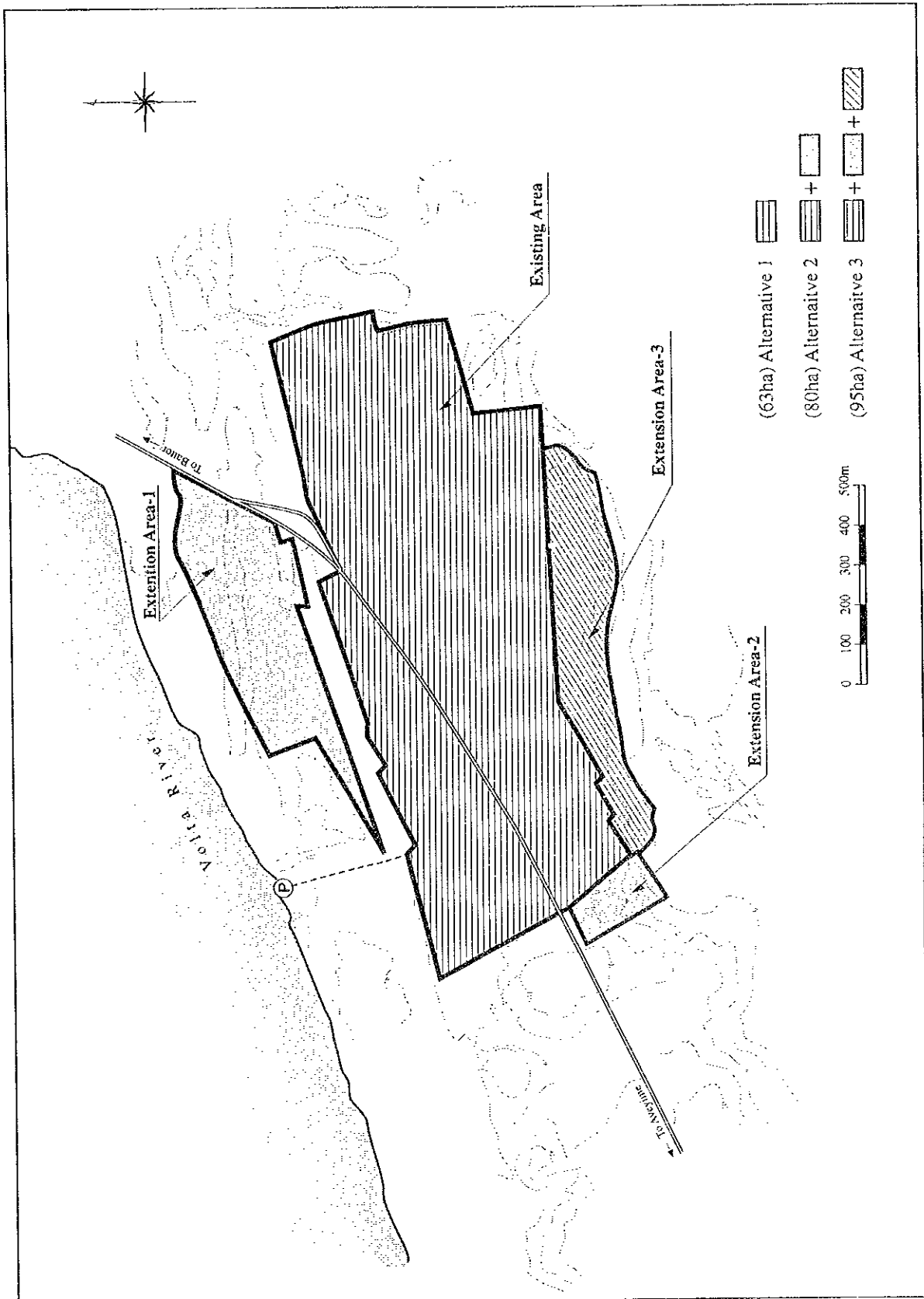


Figure H-7
Alternative Plans for Aveyime Project

**THE STUDY ON THE REHABILITATION
 OF IRRIGATION PROJECTS
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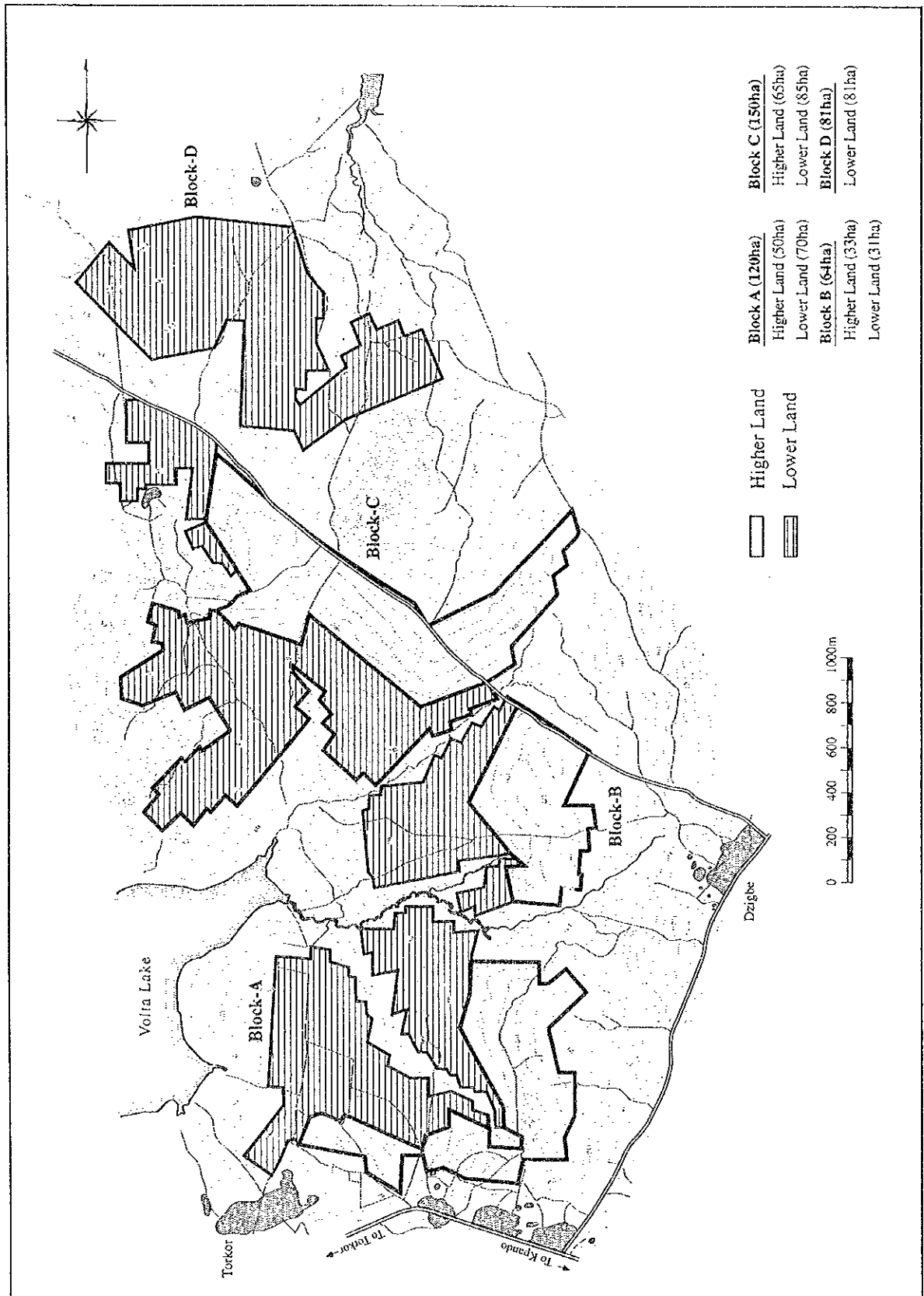


Figure H-8
Alternative Plans for Kpando -Torkor Project

**THE STUDY ON THE REHABILITATION
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 IN THE REPUBLIC OF GHANA**

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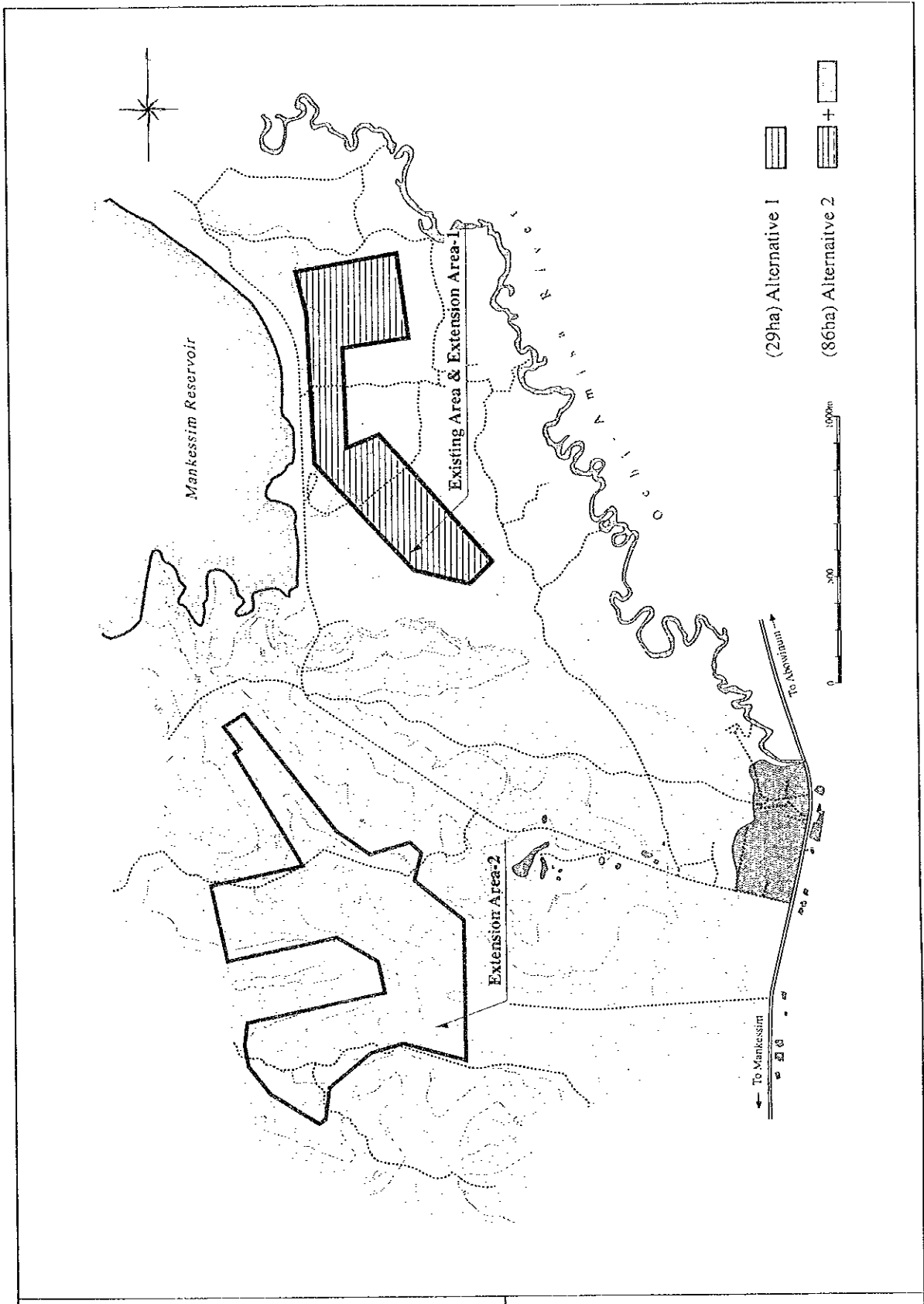


Figure H-9
Alternative Plans for Mankessim Project

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 OF IRRIGATION PROJECTS
 IN THE REPUBLIC OF GHANA**

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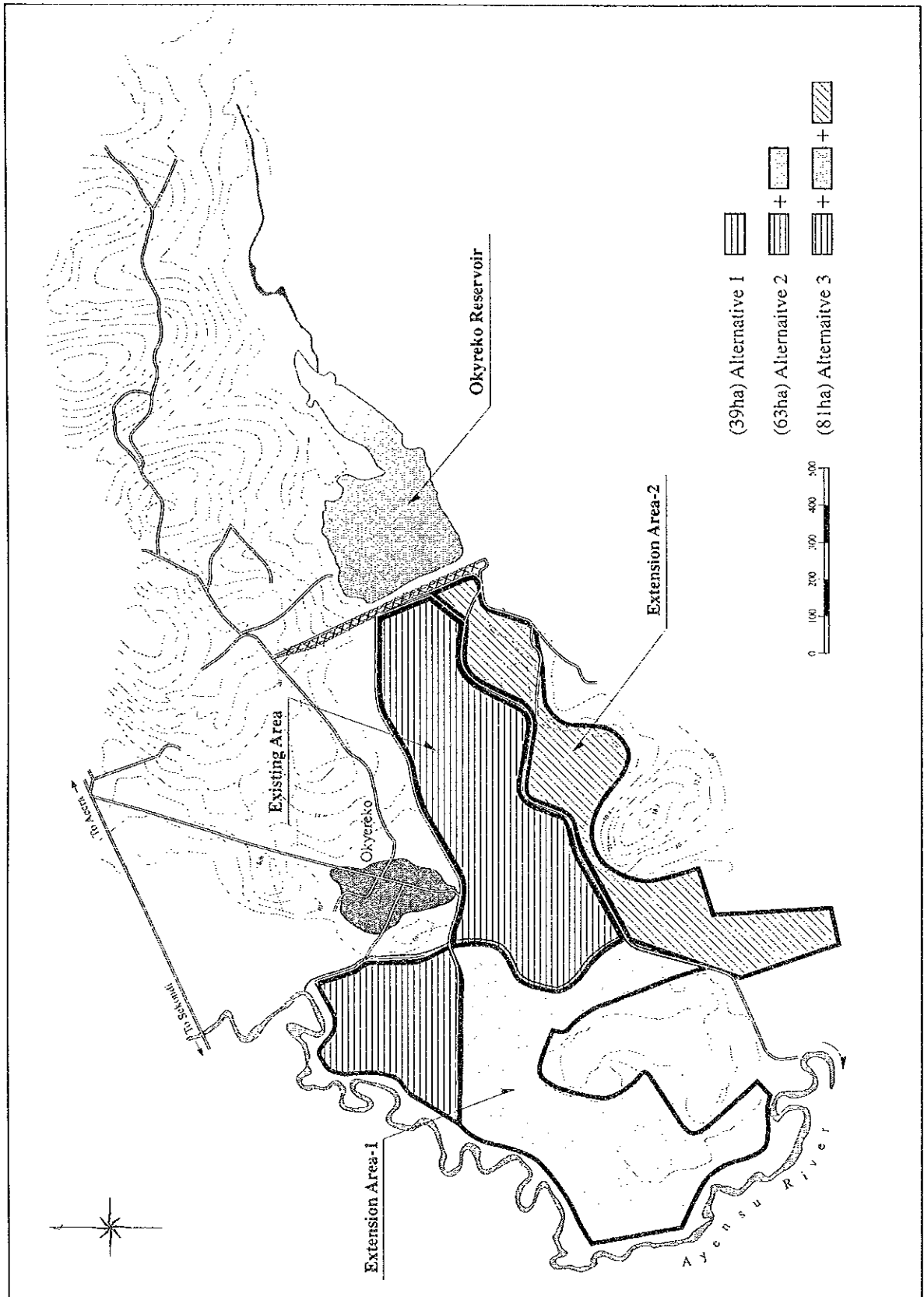
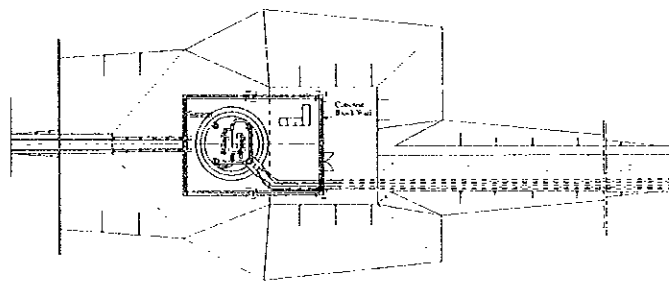


Figure H-10
Alternative Plans for Okyereko Project

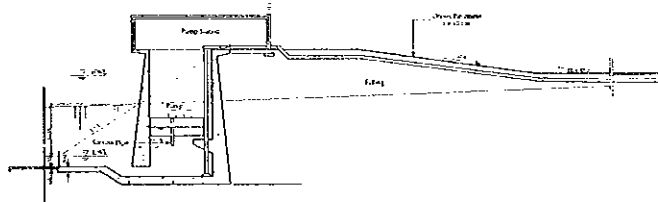
**THE STUDY ON THE REHABILITATION
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Floating Pump Plan

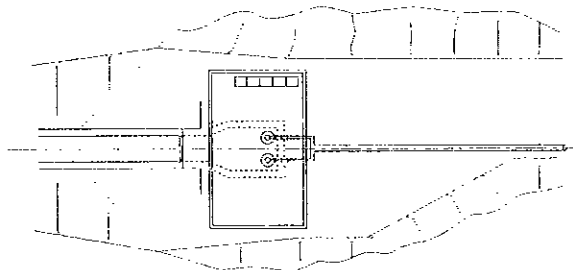


Plan

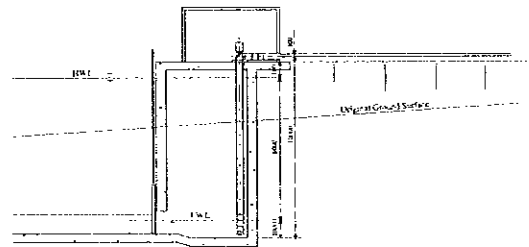


Profile

Fixed Pump Plan

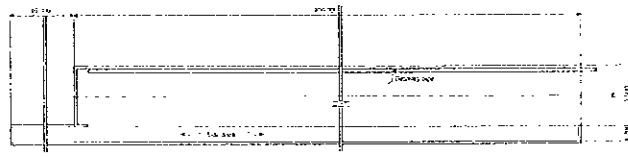


Plan

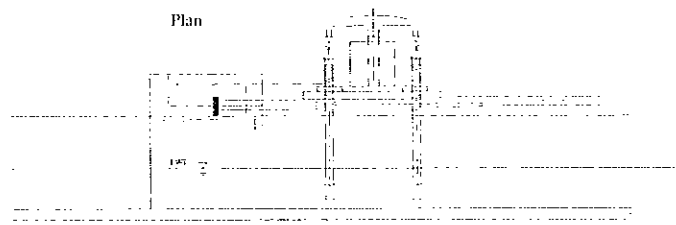
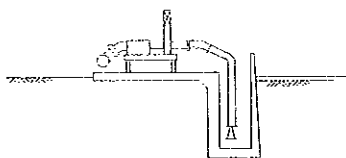


Profile

Movable Pump Plan



Plan



Profile

Figure H-11
Alternative Plans on Pump Intake Method

**THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA**

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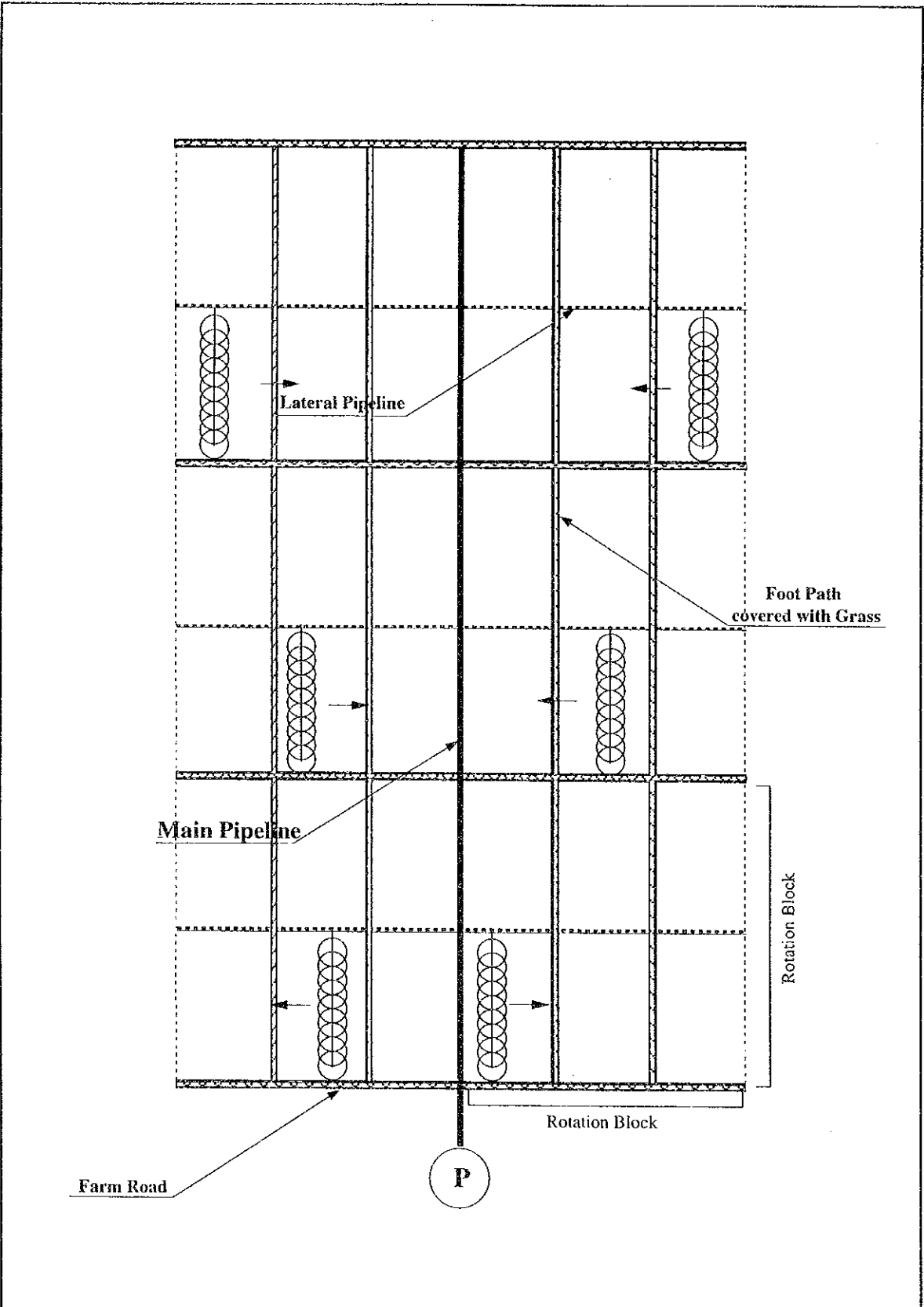


Figure H-12
Typical Sprinkler System

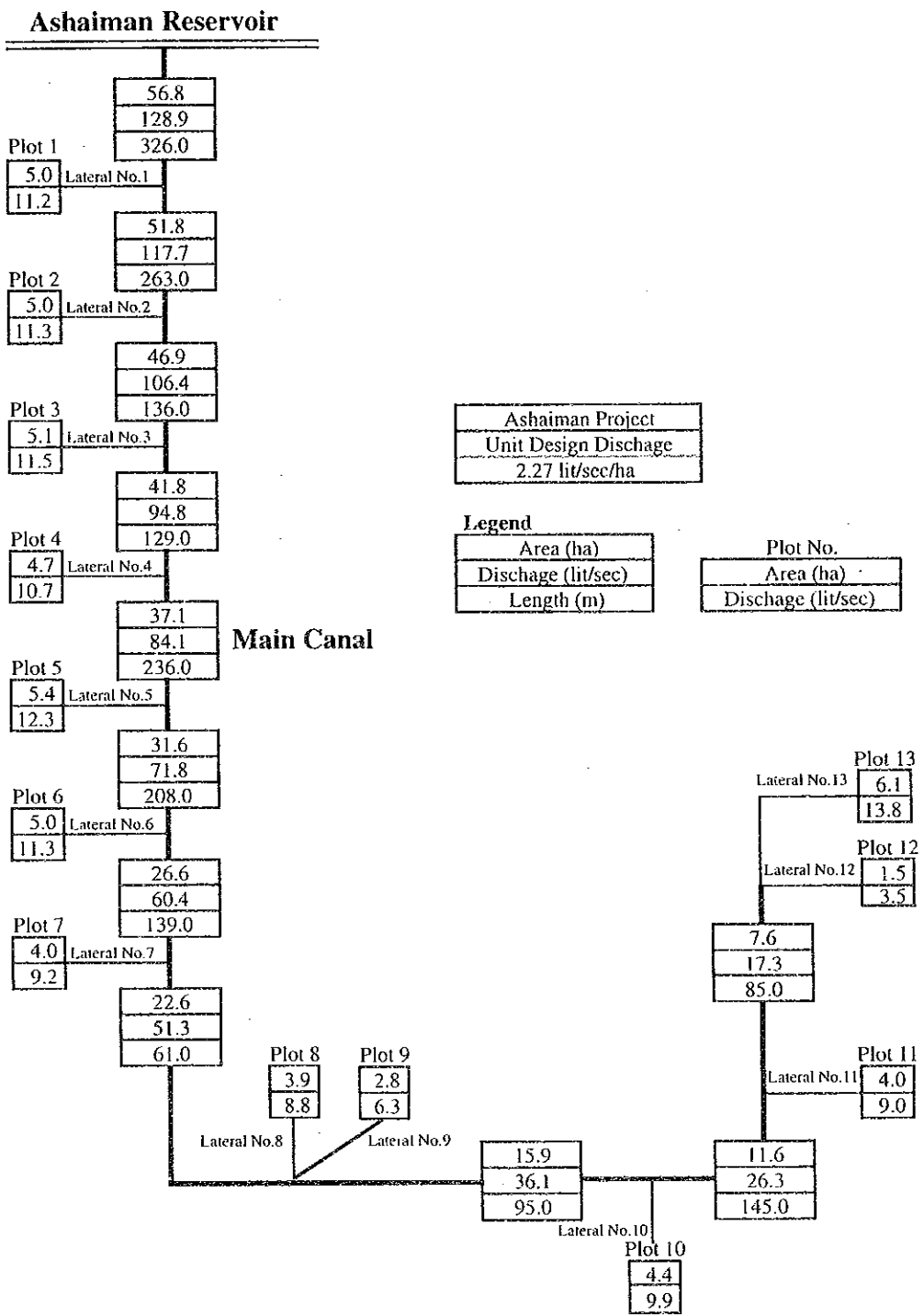


Figure H-13
Design Discharge Diagram
for Ashaiman Project

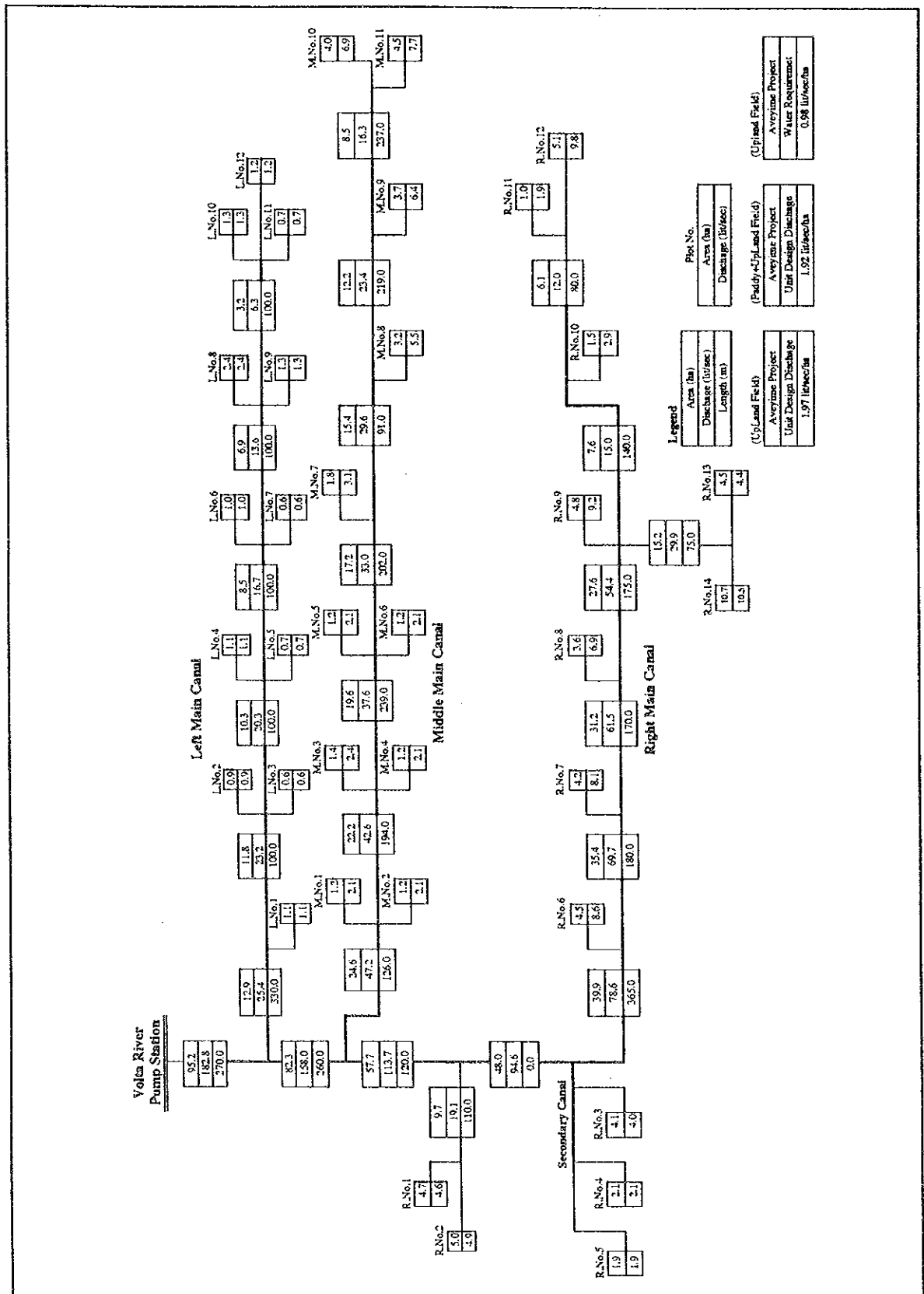
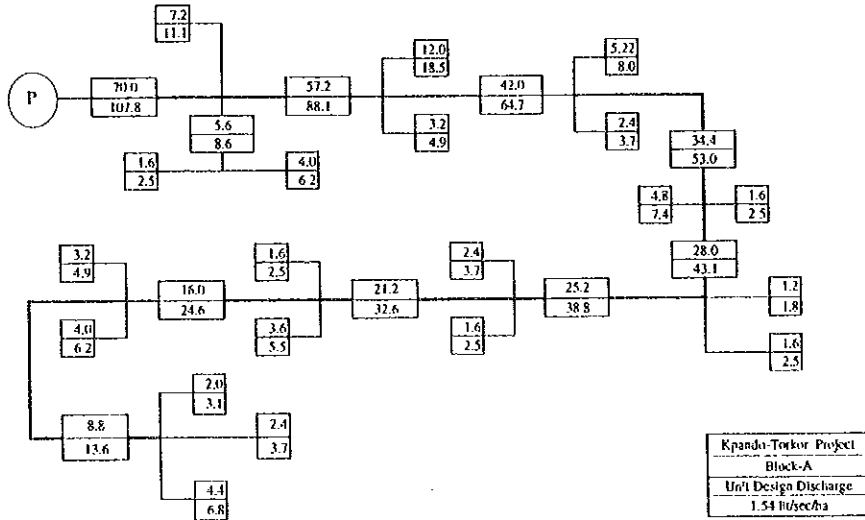


Figure H-14
Design Discharge Diagram
for Aveymere Project

THE STUDY ON THE REHABILITATION
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IN THE REPUBLIC OF GHANA

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Block-A



Block-C

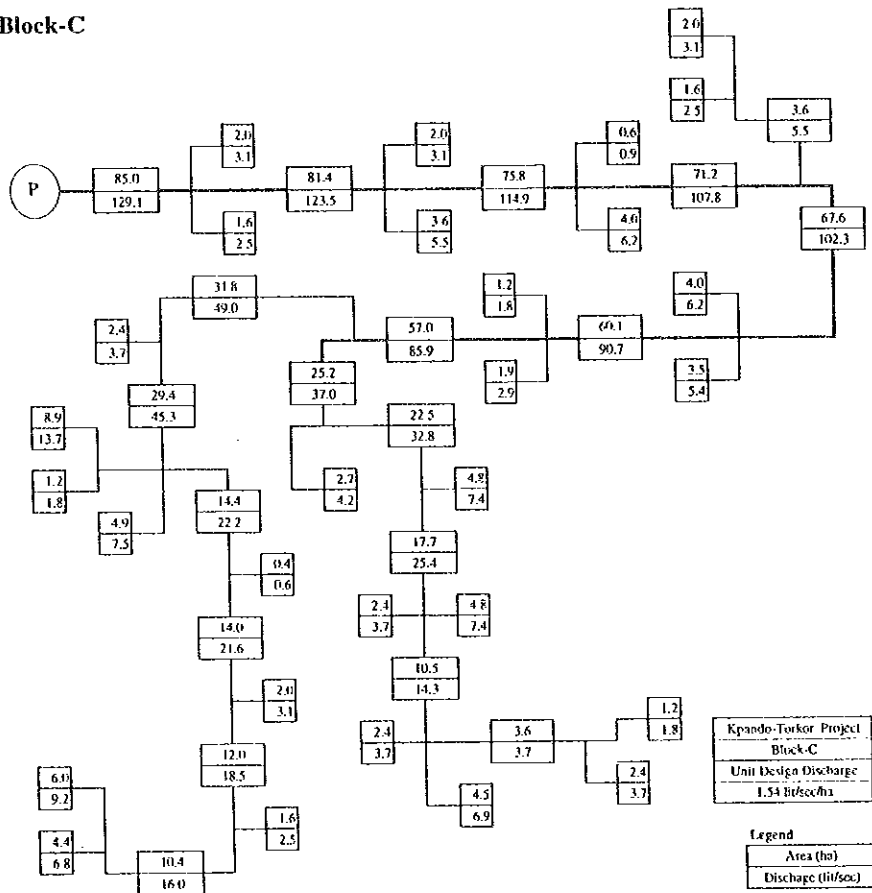
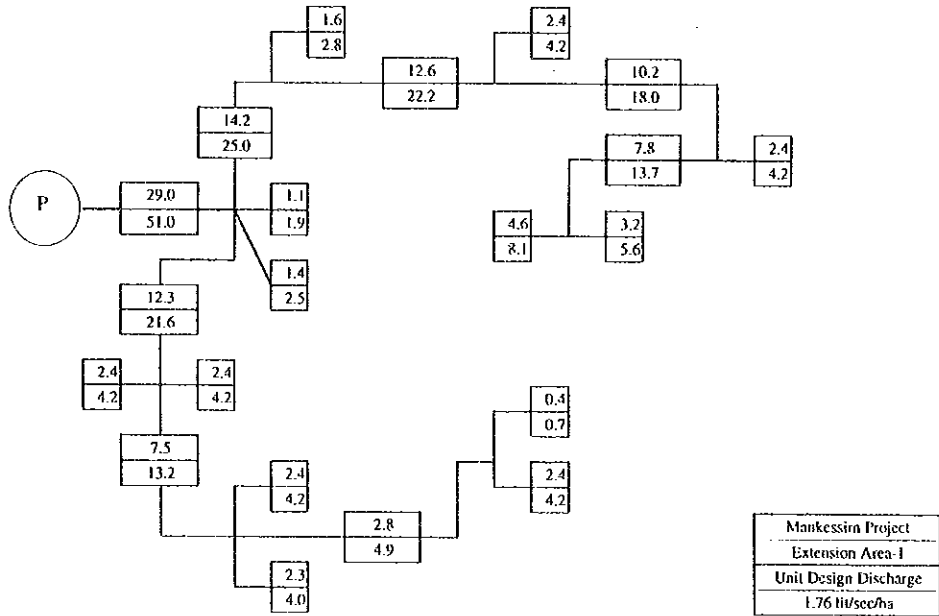


Figure H-15
Design Discharge Diagram
for Kpando-Tokor Project

**THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA**

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Extension Area-1



Extension Area-2

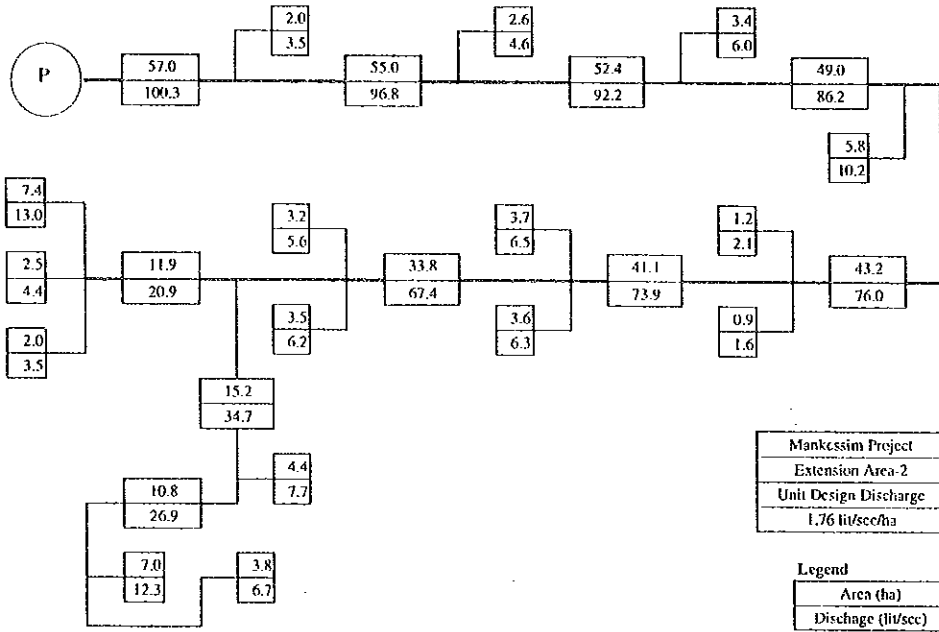


Figure H-16
Design Discharge Diagram
for Mankessim Project

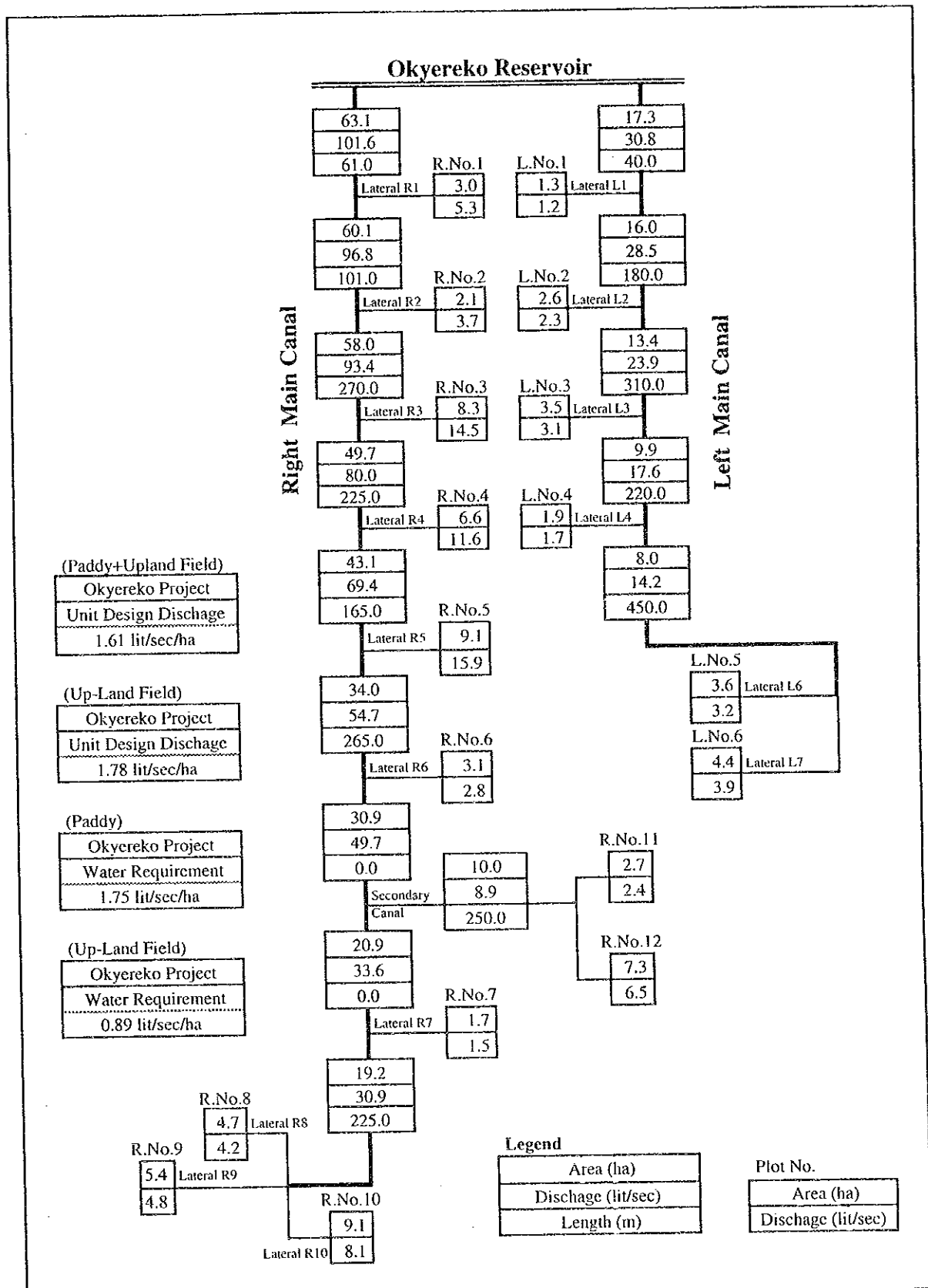


Figure H-17
Design Discharge Diagram
for Okyereko Project

THE STUDY ON THE REHABILITATION
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IN THE REPUBLIC OF GHANA

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Design rainfall (Qd) = 128 mm

$Hd = 50 + (Rd \times t)/3.0 - Qd \times t \times 8.64$, where t is by 3 days

$Hd = 50 + Rd - Qd \times t \times 8.64$, where t is after 3 days

(1) Qd = 3 lit/s/ha		(2) Qd = 2 lit/s/ha		(3) Qd = 1.0 lit/s/ha	
t	Hd(mm)	t	Hd(mm)	t	Hd(mm)
0	50	0	50	0	50
1	67	1	75	1	84
2	83	2	101	2	118
3	100	3	126	3	152
4	74	4	109	4	143
5	48	5	92	5	135
6	22	6	74	6	126
7		7	57	7	118
8		8	40	8	109
9		9	22	9	100
10		10		10	92

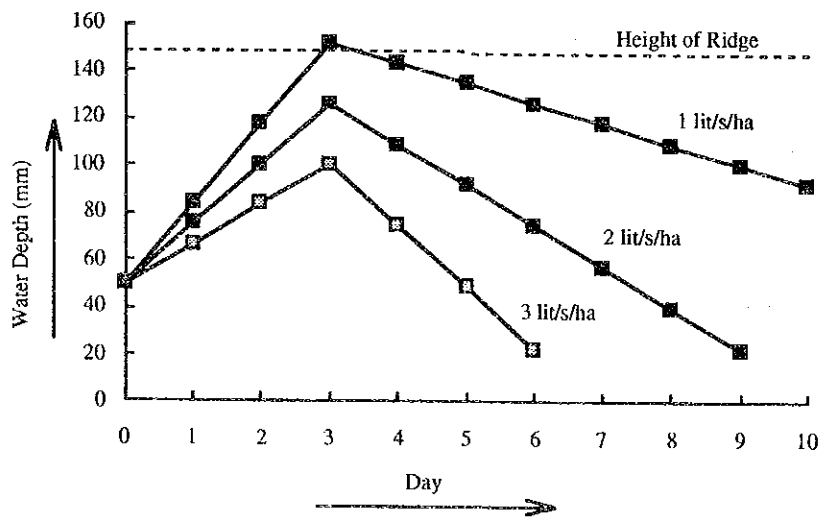


Figure H-18
Estimate on Internal Drainage Requirement for Ashaiman Project

THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS IN THE REPUBLIC OF GHANA

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Design rainfall (Qd) = 156 mm

$Hd = 50 + (Rd \times t)/3.0 - Qd \times t \times 8.64$, where t is by 3 days

$Hd = 50 + Rd - Qd \times t \times 8.64$, where t is after 3 days

(1) Qd = 3 lit/s/ha		(2) Qd = 2 lit/s/ha		(3) Qd = 1.0 lit/s/ha	
t	Hd(mm)	t	Hd(mm)	t	Hd(mm)
0	50	0	50	0	50
1	76	1	85	1	93
2	102	2	119	2	137
3	128	3	154	3	180
4	102	4	137	4	171
5	76	5	120	5	163
6	50	6	102	6	154
7	25	7	85	7	146
8		8	68	8	137
9		9	50	9	128
10		10	33	10	120

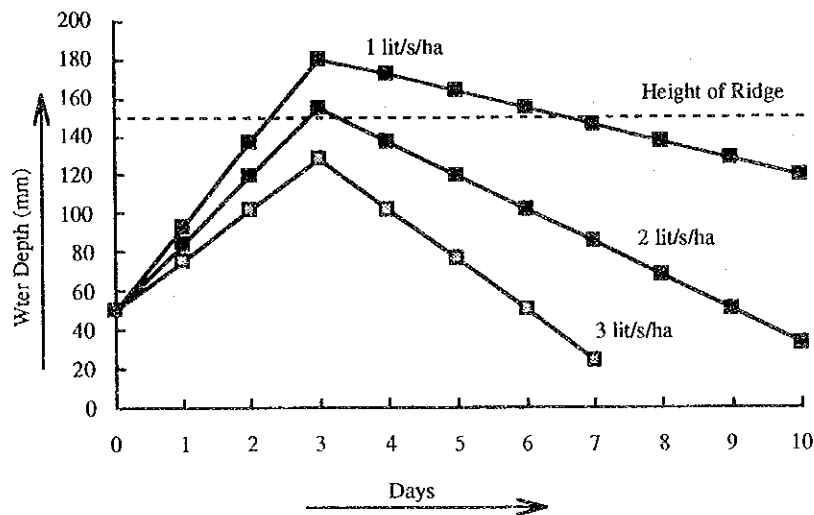


Figure H-19
Estimate on Internal Drainage Requirement for Aveyime Project

THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS IN THE REPUBLIC OF GHANA

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$$Qd = 171 \text{ mm}$$

$$Hd = 50 + (Rd \times t)/3.0 - Qd \times t \times 8.64, \text{ where } t \text{ is by 3 days}$$

$$Hd = 50 + Rd - Qd \times t \times 8.64, \text{ where } t \text{ is after 3 days}$$

(1) Qd = 3 lit/s/ha		(2) Qd = 2 lit/s/ha		(3) Qd = 1.0 lit/s/ha	
t	Hd(mm)	t	Hd(mm)	t	Hd(mm)
0	50	0	50	0	50
1	81	1	90	1	98
2	112	2	129	2	147
3	143	3	169	3	195
4	117	4	152	4	186
5	91	5	135	5	178
6	65	6	117	6	169
7	40	7	100	7	161
8	14	8	83	8	152
9		9	65	9	143
10		10	48	10	135

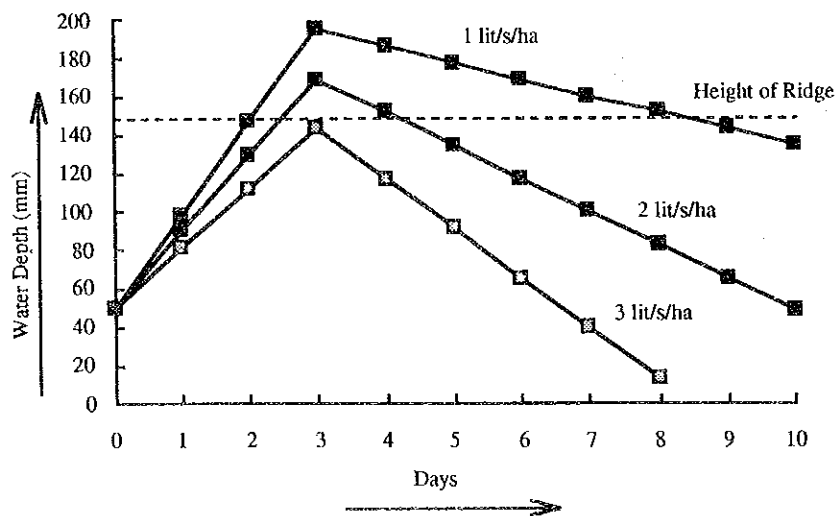
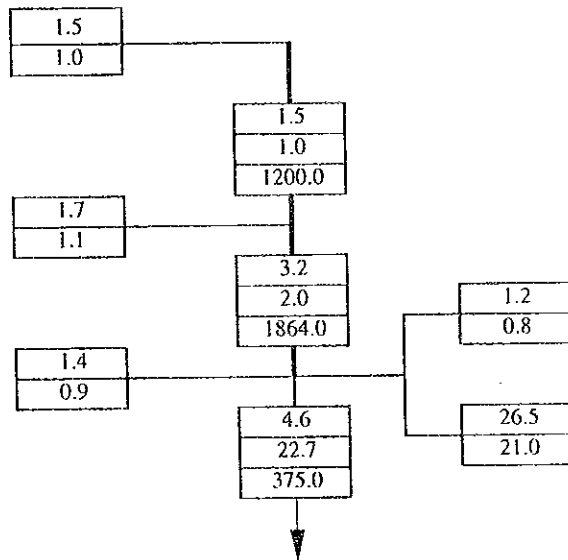


Figure H-20
Estimate on Internal Drainage Requirement for Okyereko Project

THE STUDY ON THE REHABILITATION OF IRRIGATION PROJECTS IN THE REPUBLIC OF GHANA

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Ashaiman Project
Unit Design Discharge
$Q=0.07 \times A^{4/5}$

Q: Drainage Disc A :ha
A: Area (ha)

Legend

Area (ha)
Dischage (lit/sec)

Figure H-21

**Drainage Diagram
for Ashaiman Project**

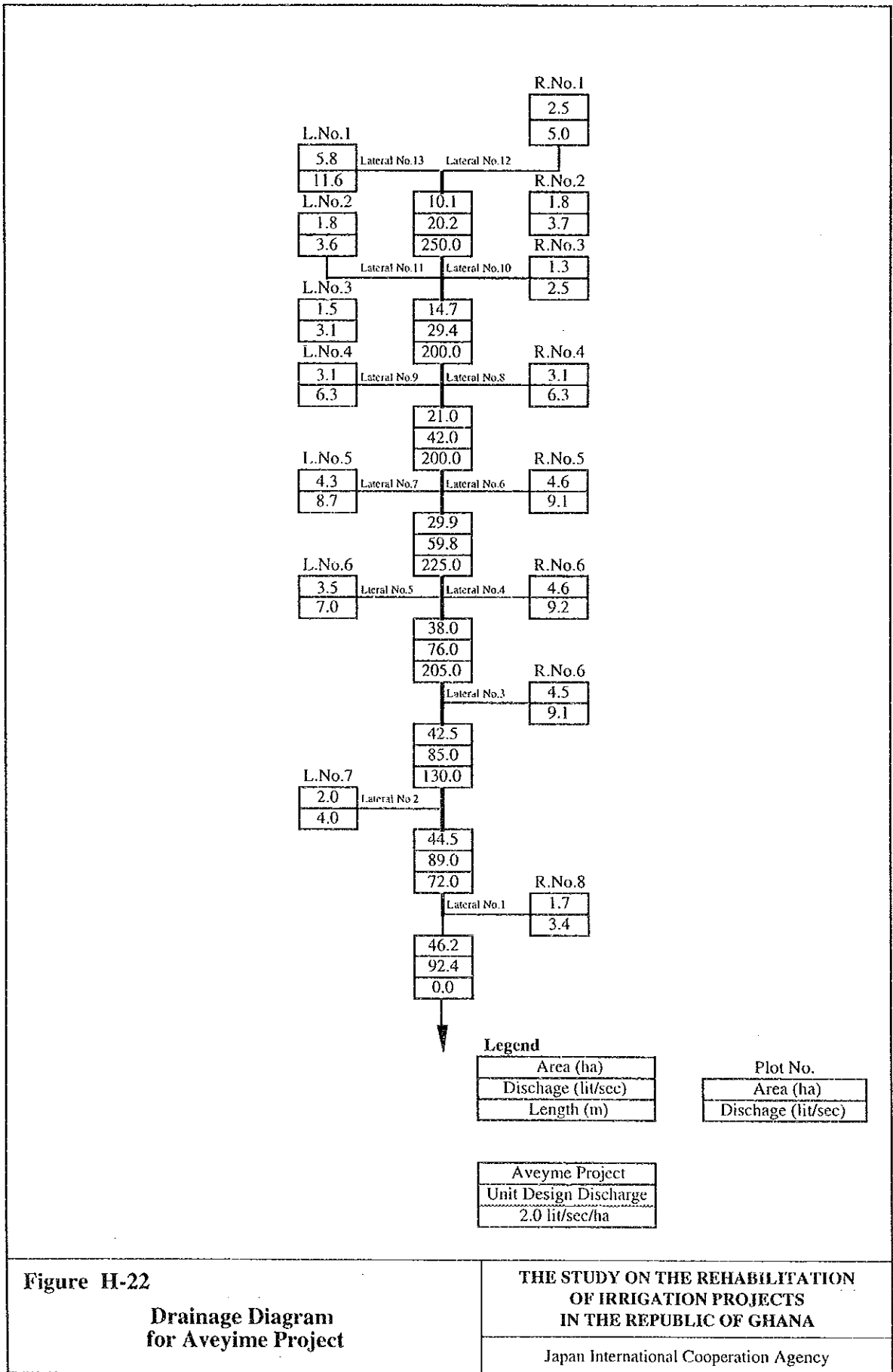


Figure H-22

Drainage Diagram
for Aveyime Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

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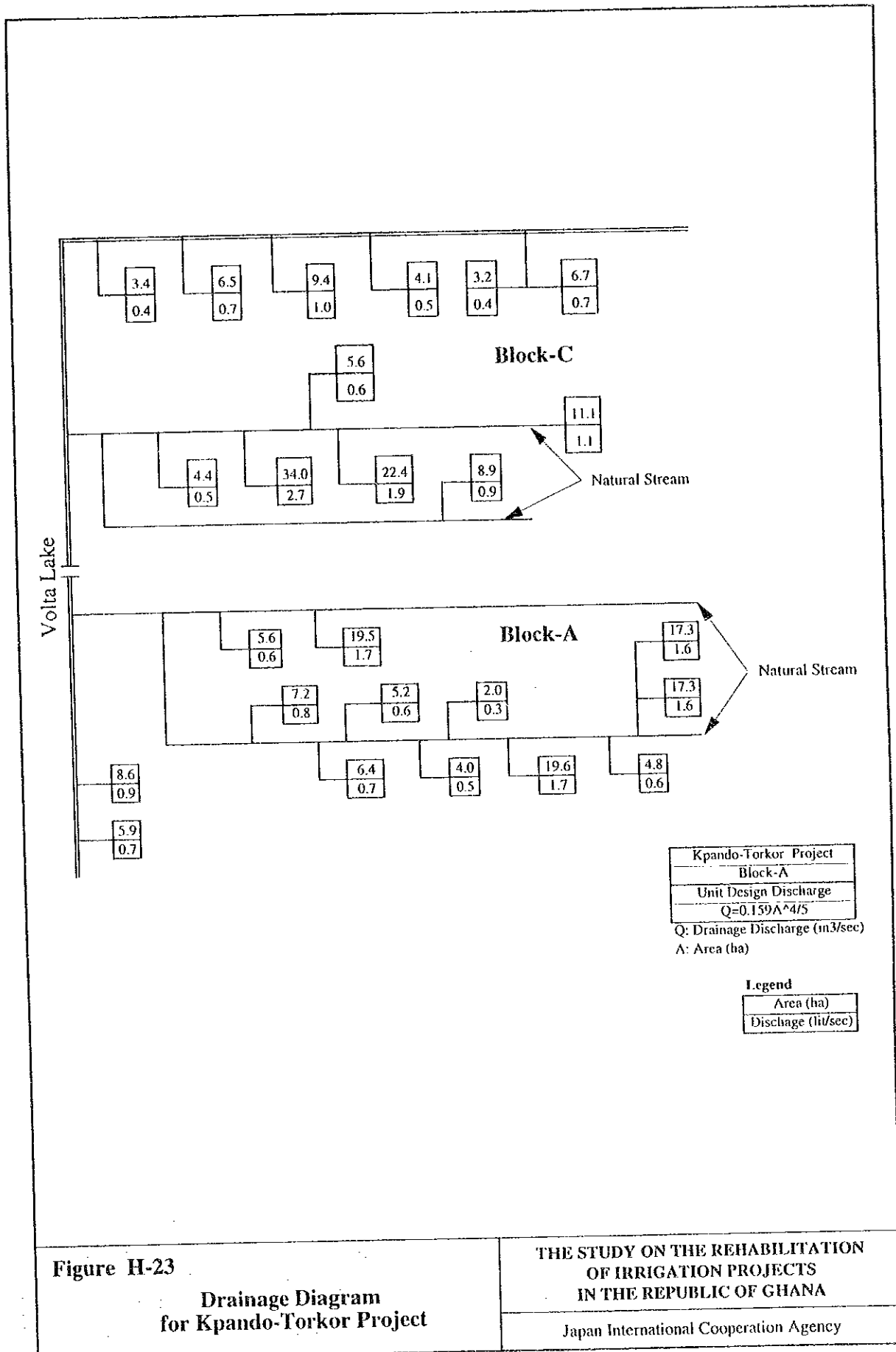
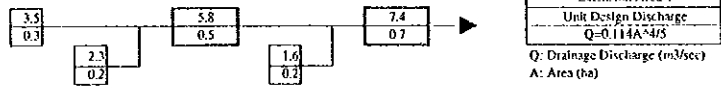


Figure H-23
Drainage Diagram
for Kpando-Torkor Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

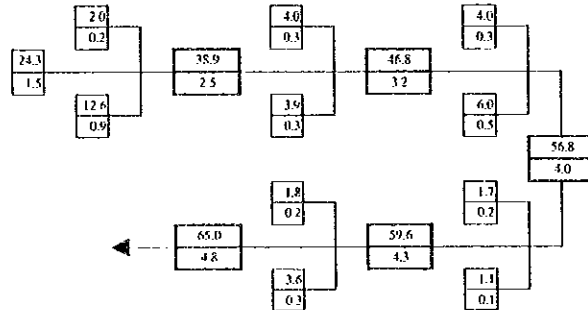
Japan International Cooperation Agency

Extension Area-1

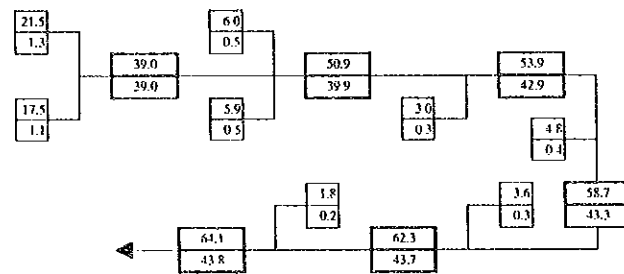


Extension Area-2

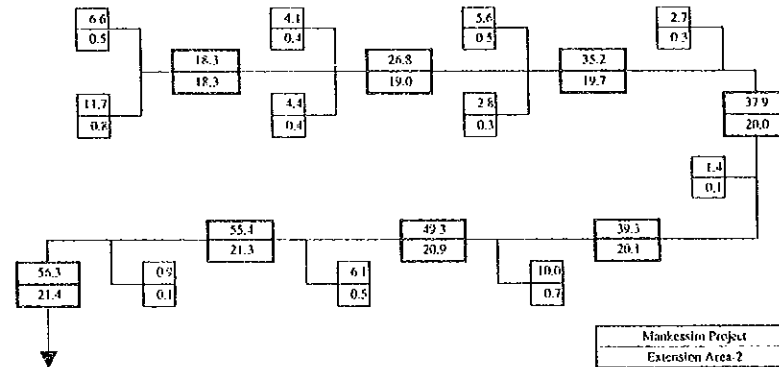
- Drain-1



-Drain-2-1



-Drain-2-2



Mankessim Project	
Extension Area-2	
Unit Design Discharge	
$Q=0.114A^{0.475}$	
Q: Drainage Discharge (m ³ /sec)	
A: Area (ha)	

Legend	
Area (ha)	
Discharge (lit/sec)	

Figure H-24

**Drainage Diagram
for Mankessim Project**

**THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA**

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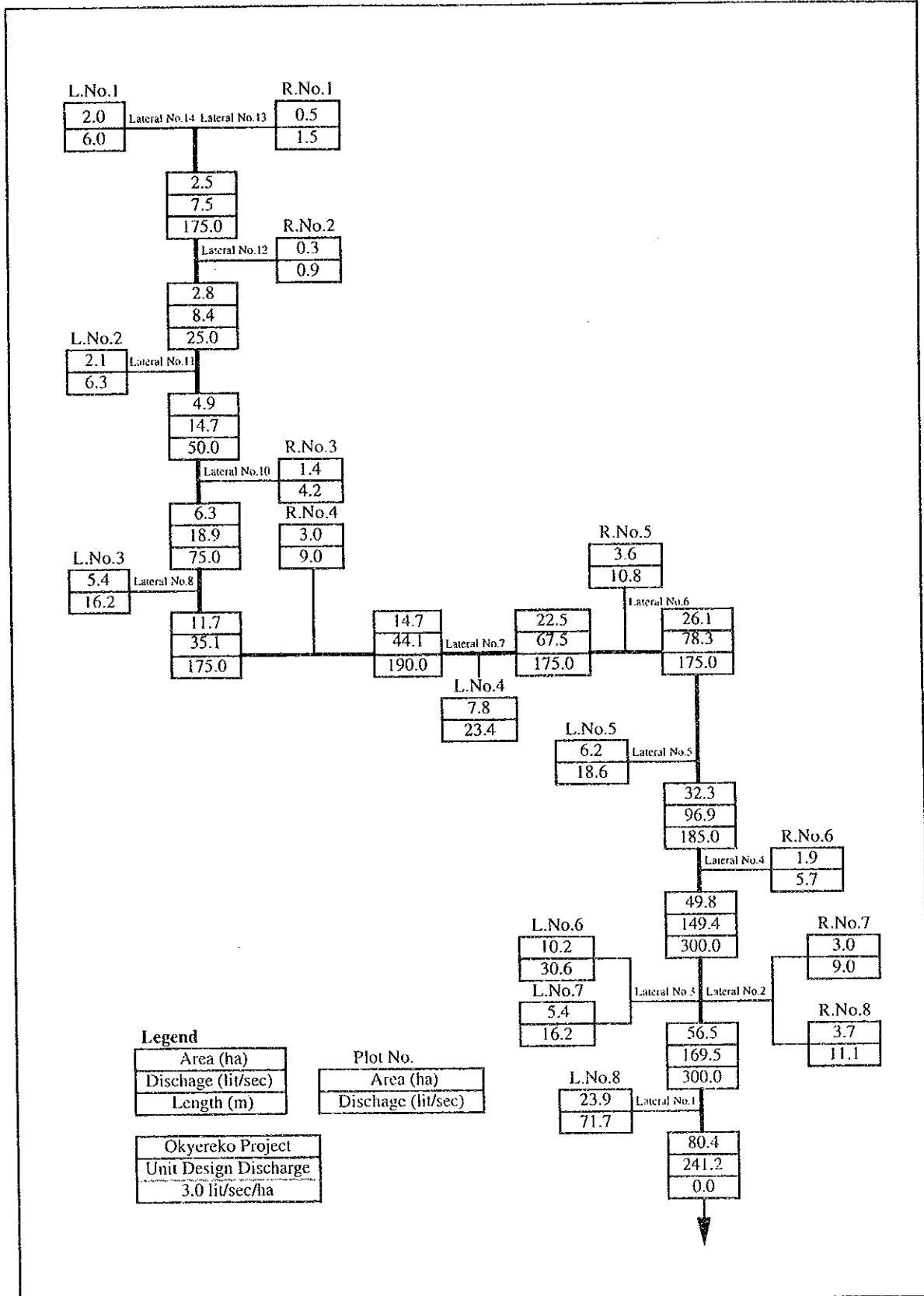


Figure H-25

Drainage Diagram
for Okyereko Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

Japan International Cooperation Agency

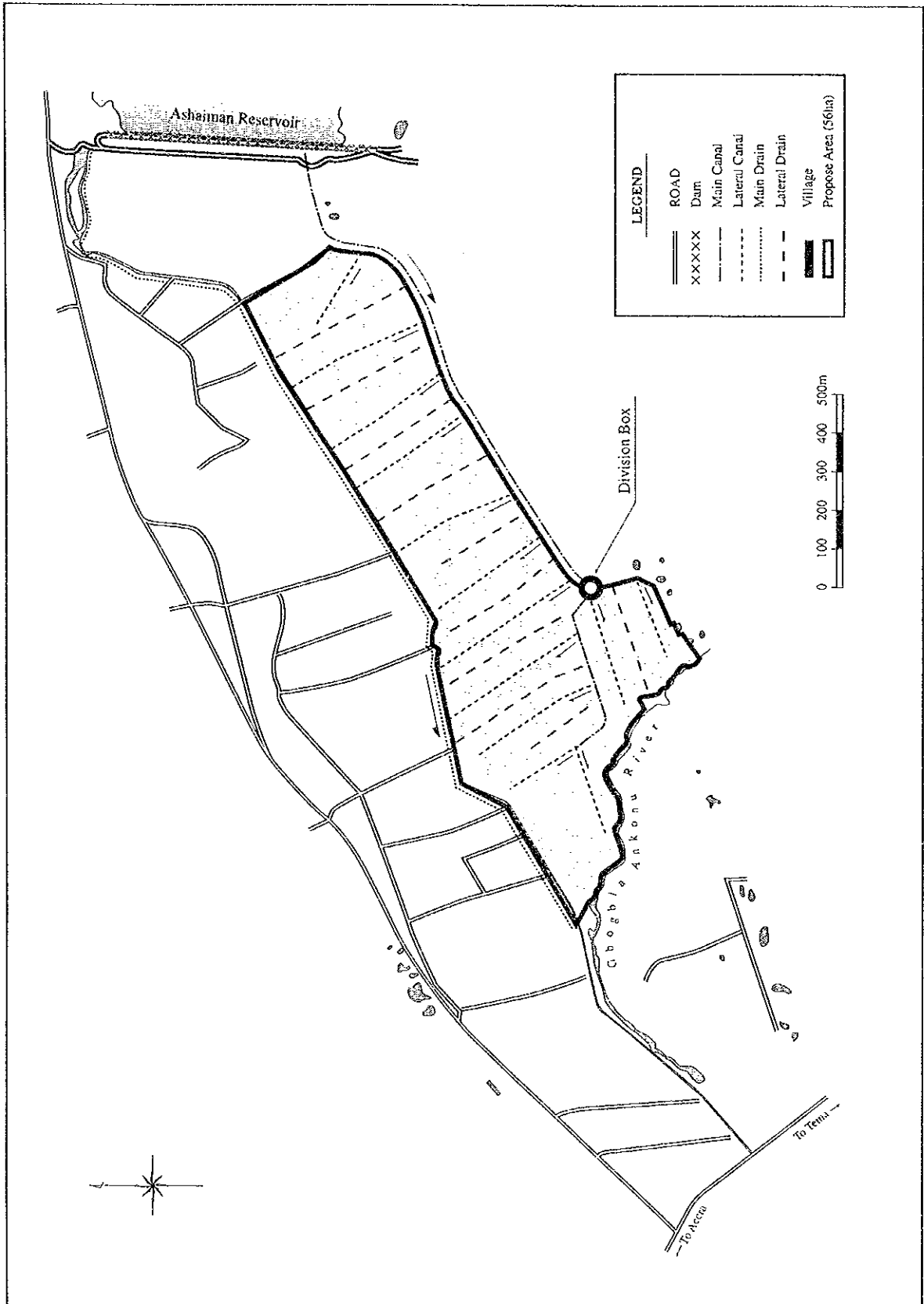


Figure H-26
Irrigation and Drainage System
Layout for Ashaiman Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

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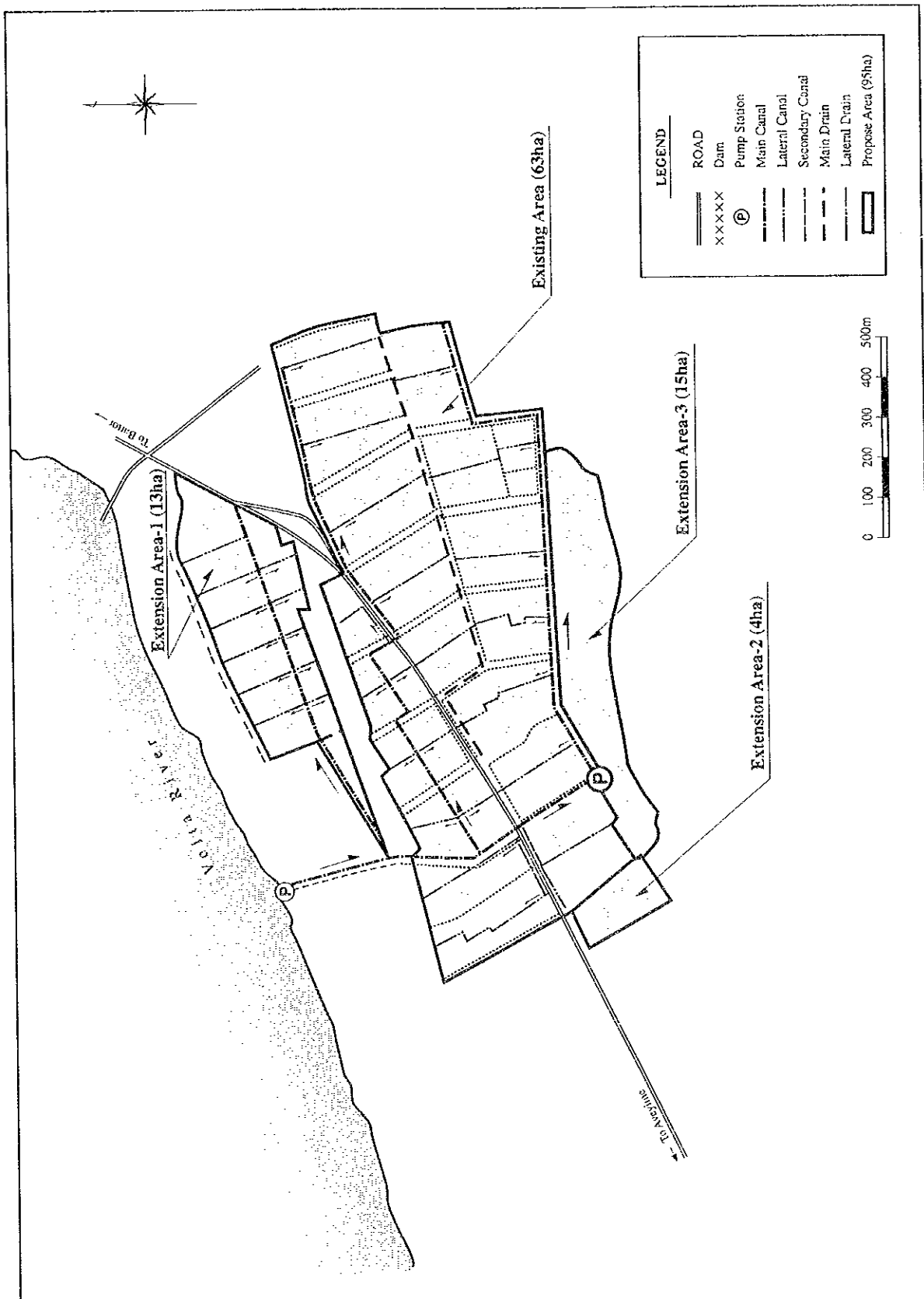
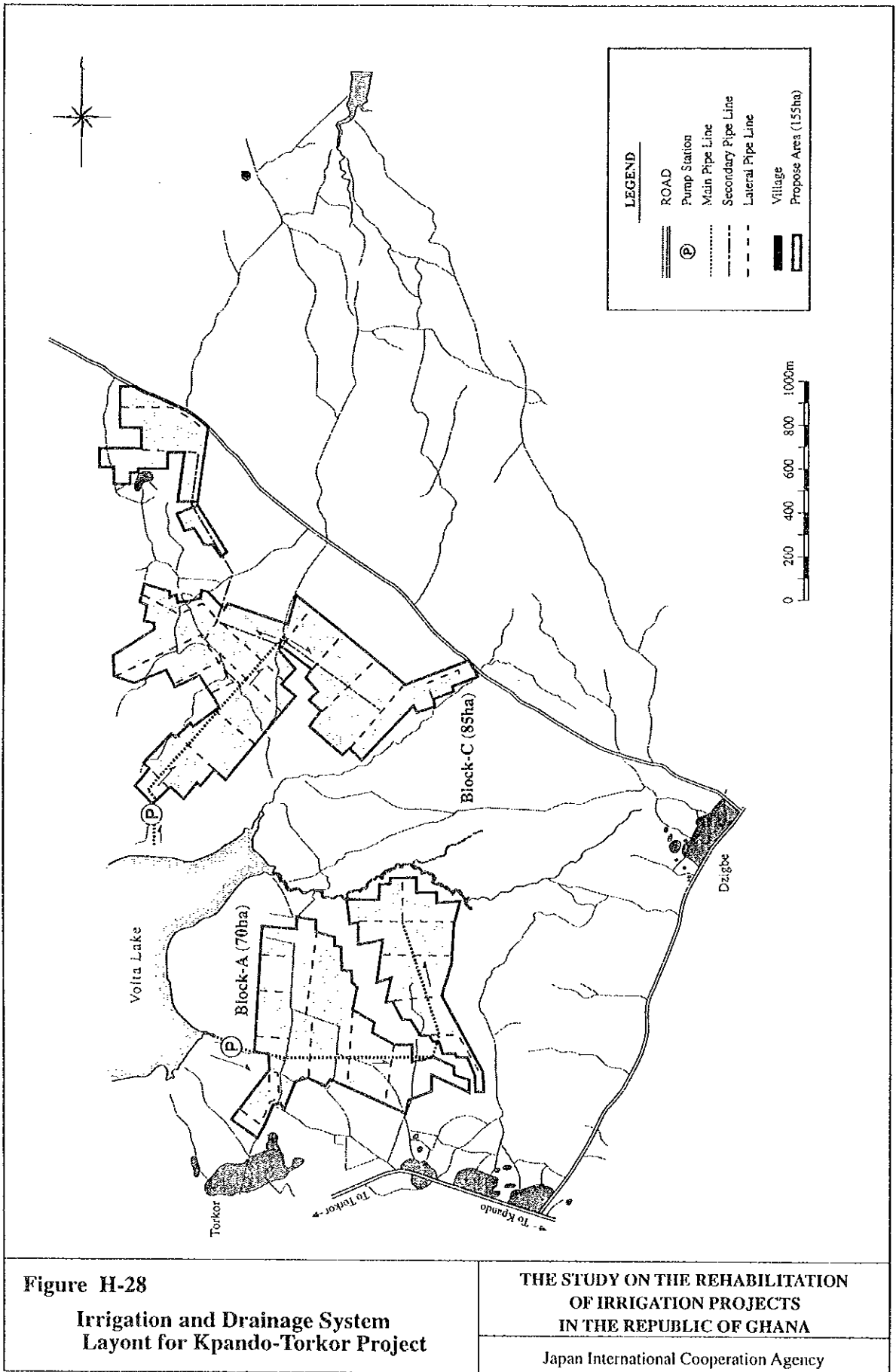


Figure H-27
Irrigation and Drainage System
Layout for Aveyime Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

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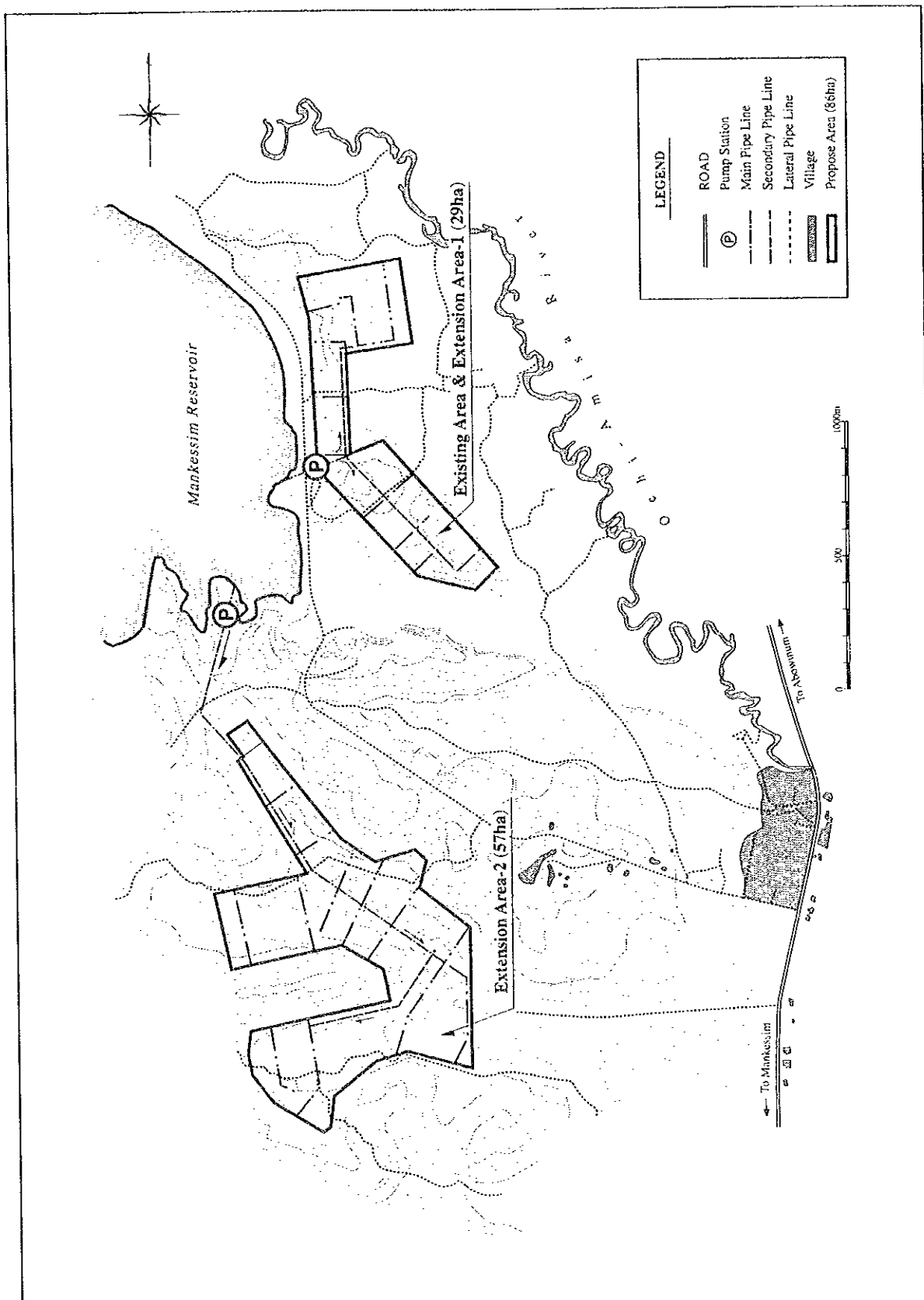


Figure H-29
Irrigation and Drainage System
Layout for Mankessim Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

Japan International Cooperation Agency

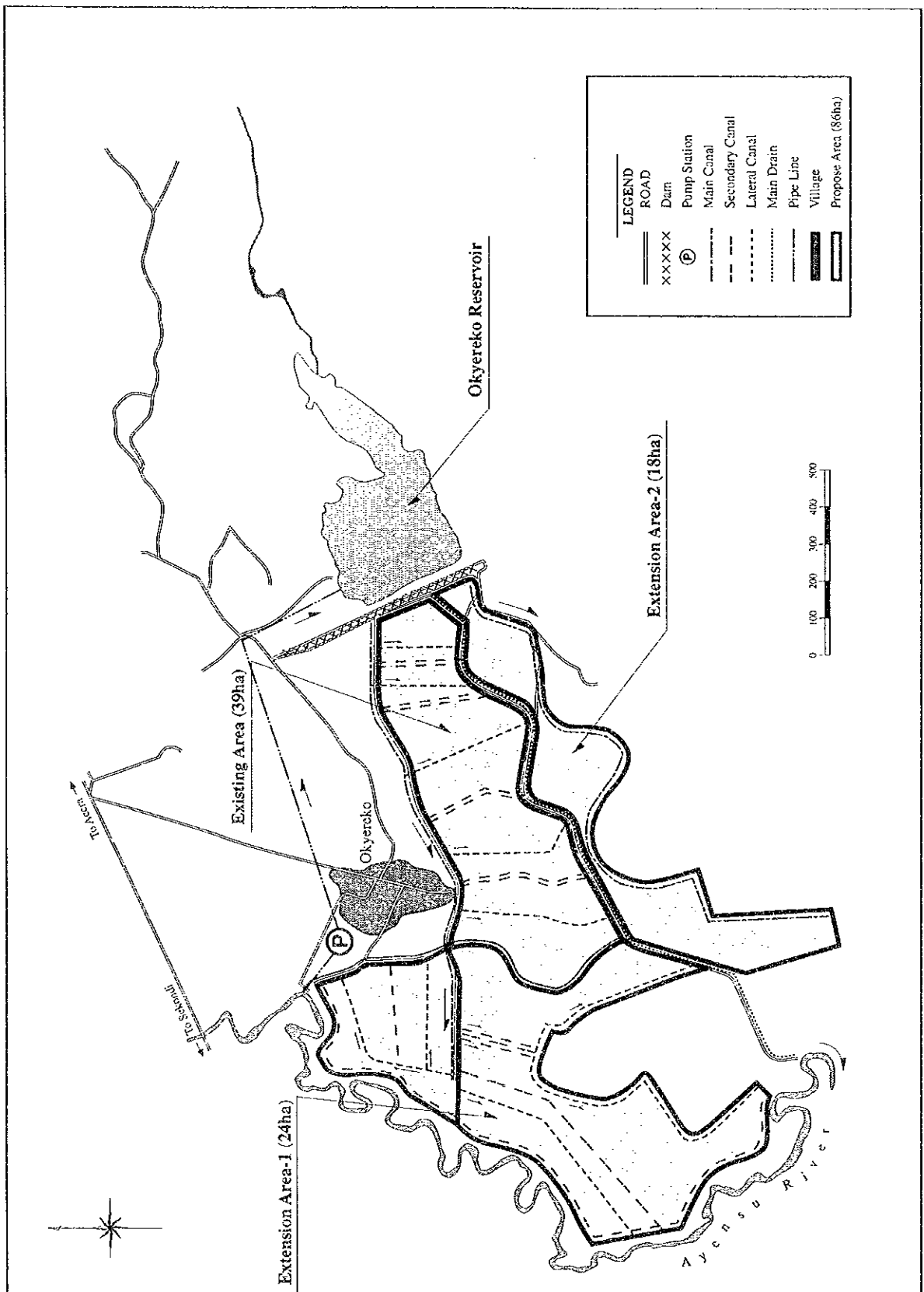


Figure H-30
Irrigation and Drainage System
Layout for Okyereko Project

THE STUDY ON THE REHABILITATION
OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

Japan International Cooperation Agency

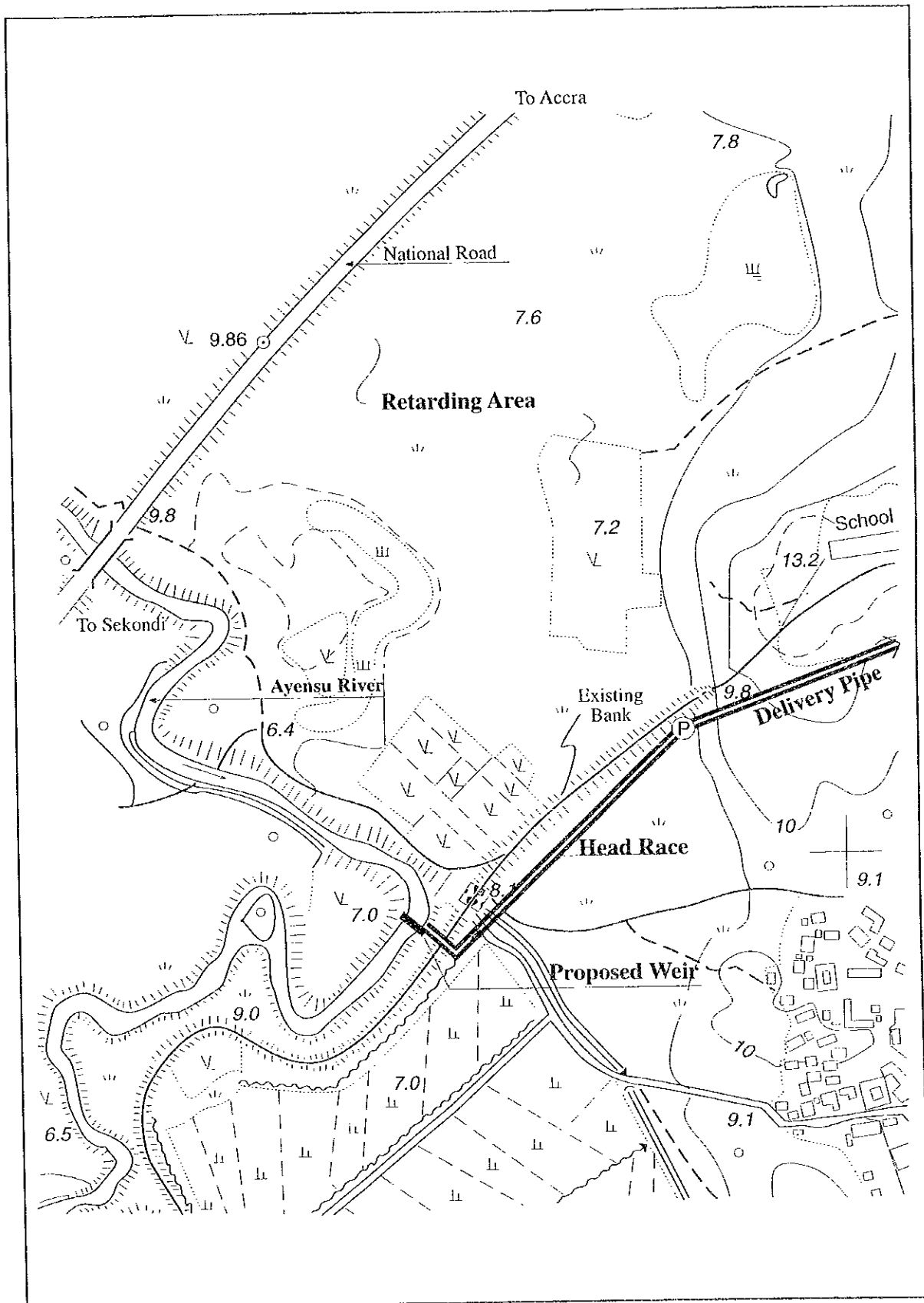


Figure H-31
Location of Proposed Intake Weir
in Okyereko Project

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OF IRRIGATION PROJECTS
IN THE REPUBLIC OF GHANA

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