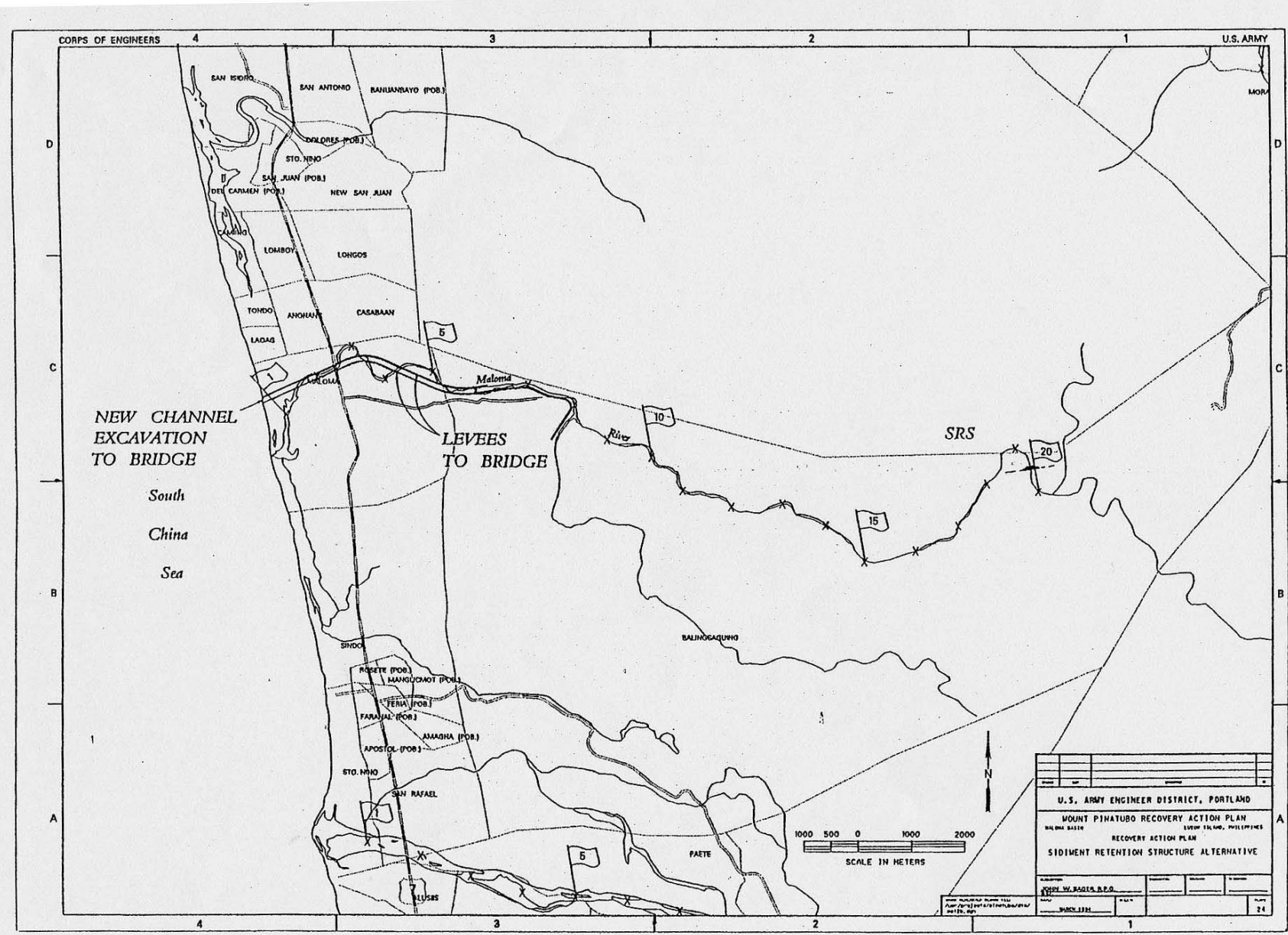


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Figure 3.7.1
**Proposed Recovery Action Plans by USACE in
1994 (1/3)**



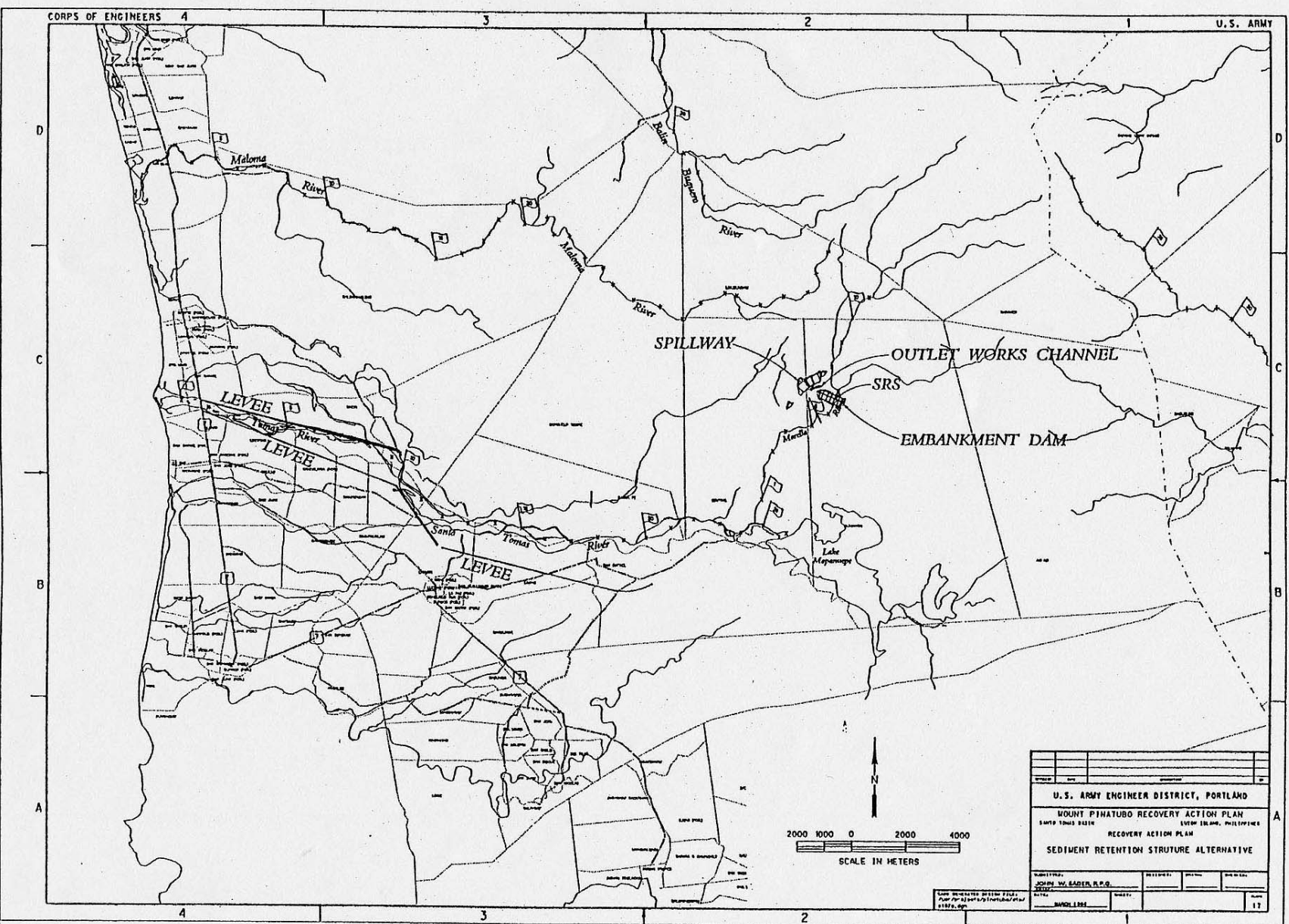
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Figure 3.7.1

Proposed Recovery Action Plans by USACE in
1994 (2/3)



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Figure 3.7.1
**Proposed Recovery Action Plans by USACE in
1994 (3/3)**

Name of River/ Scope of Work			Length (km)	Year											Remarks
				1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
				Argent Plan		Short Term Plan				Middle Term Plan					
Bucao River (Right Bank)															
D. Construction of Bucao Dike															
	D-1	Embankment & Armoring of Slope (Sta. 0.0 km to 5.8 km)	5.8											by IBA-DEO	
	D-2	Raising Dike (with revetment) (Sta. 2.4 km to 5.8 km)	3.4											by IBA-DEO	
Maloma River															
E. Construction of Revetment along Maloma River															
	E-1	Upstream of Maloma Bridge	0.6											by IBA-DEO	
		a) Phase -1 (near Maloma BR, Right Bank)	0.2											by IBA-DEO	
		b) Phase -2 (near confluence of Gorongoron River)													
	E-2	Downstream of Maloma Bridge													
		c) Phase -1 (Left Bank)	0.2											by IBA-DEO	
		d) Phase -2 (Right Bank)	0.4											by IBA-DEO	
Sto. Tomas River															
Left Bank															
A. Construction of Maculcol - Vega Dike															
	A-1	Lahar Embankment (Sta. 0.0 km to 10.5 km)	10.5											by IBA-DEO	
	A-2	Rehabilitation & Armoring of Slope (Sta. 0.0 km to 2.8 km & Sta. 7.5 km to 10.5 km)	5.7											by MPR	
	A-3	Raising Dike (with revetment) (Sta. 7.5 km to 10.5 km)	3.0											by IBA-DEO	
	A-4	Construction of Secondary Dike (with revetment) (Sta. 3.8 km to 7.3 km)	3.4											by IBA-DEO	
	A-5	Rehabilitation of Damaged Revetment (Sta. 4.6 km to 5.0 km)	0.4											by MPR	
B. Construction of Vega - Lawin Dike															
	B-1	Lahar Embankment (Old Alignment) (Sta. 10.9 km to 18.9 km)	8.0											by Region III & IBA-DEO	
	B-2	Construction of New Dike (New Alignment) (Sta. 10.9 km to 18.9 km)	8.0											by MPR	
	B-3	Raising Dike (with revetment) (Sta. 10.9 km to 18.9 km)	8.0											by MPR	
	B-4	Second Raising Dike (with revetment) (Sta. 16.4 km to 18.9 km)	2.5											by Region III & IBA-DEO	
	B-5	Construction of Diversion Channel of Mapanuepe Lake												by MPR	
Right Bank															
C. Construction of Maculcol - Paite Dike															
	C-1	Lahar Embankment (Sta. 0.0 km to 7.4 km)	7.4											by IBA-DEO	
	C-2	Rehabilitation & Armoring of Slope (Sta. 2.8 km to 7.4 km)	4.6											by IBA-DEO	
	C-3	Armoring of Slope (Sta. 0.0 km to 2.8 km)	2.8											by MPR	
	C-4	Rehabilitation of Damaged Revetment (Sta. 6.6 km to 6.7 km)	0.1											by MPR	
Note: (IBA-DEO) : DPWH-IBA District Engineering Office (MPR) : Mt. Pinatubo Rehabilitation Office (Region III) : DPWH Region III															

Source: JICA Study Team

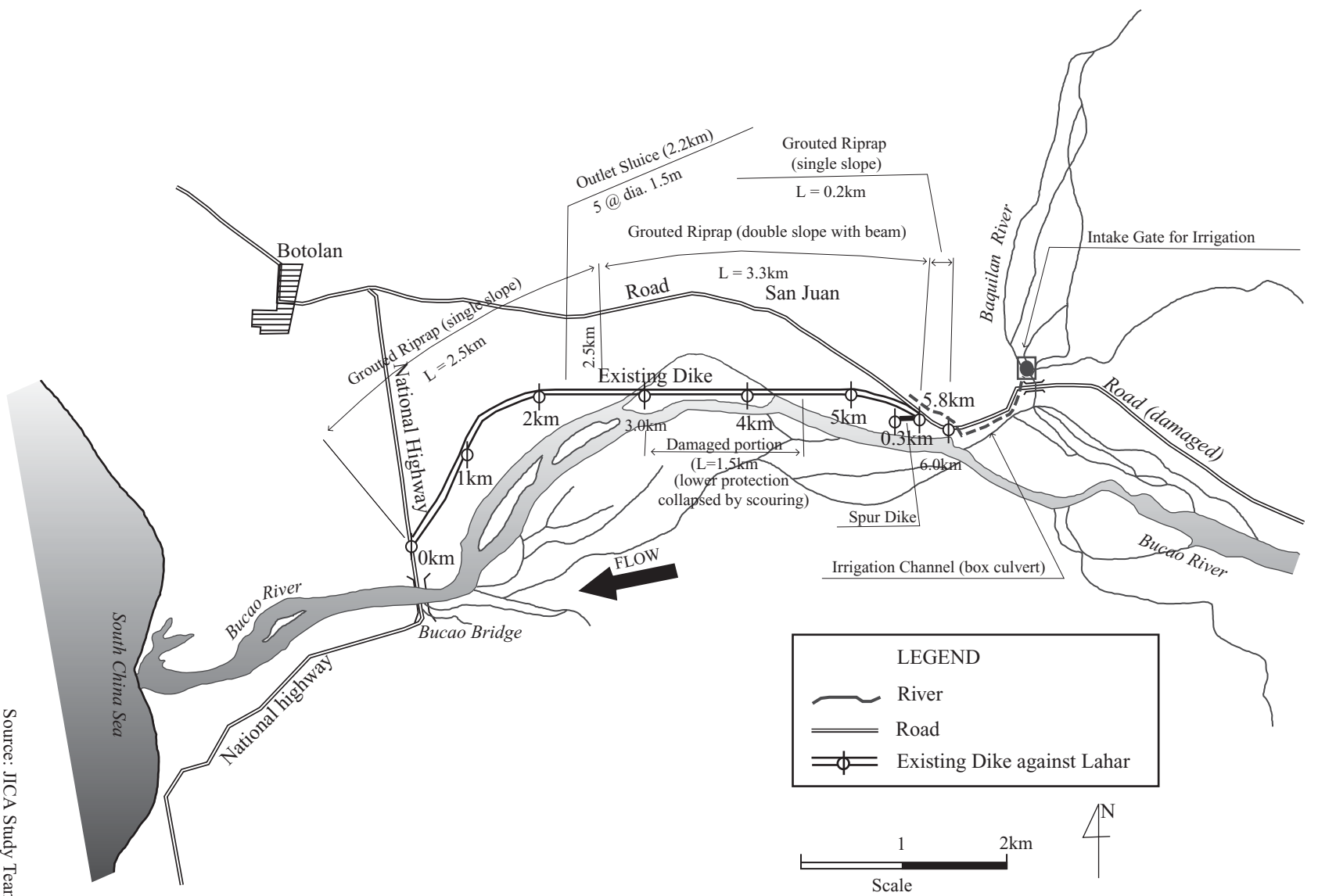
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Figure 3.7.2

**Construction Records of Existing Flood/ Mudflow
Control Works**



Source: JICA Study Team

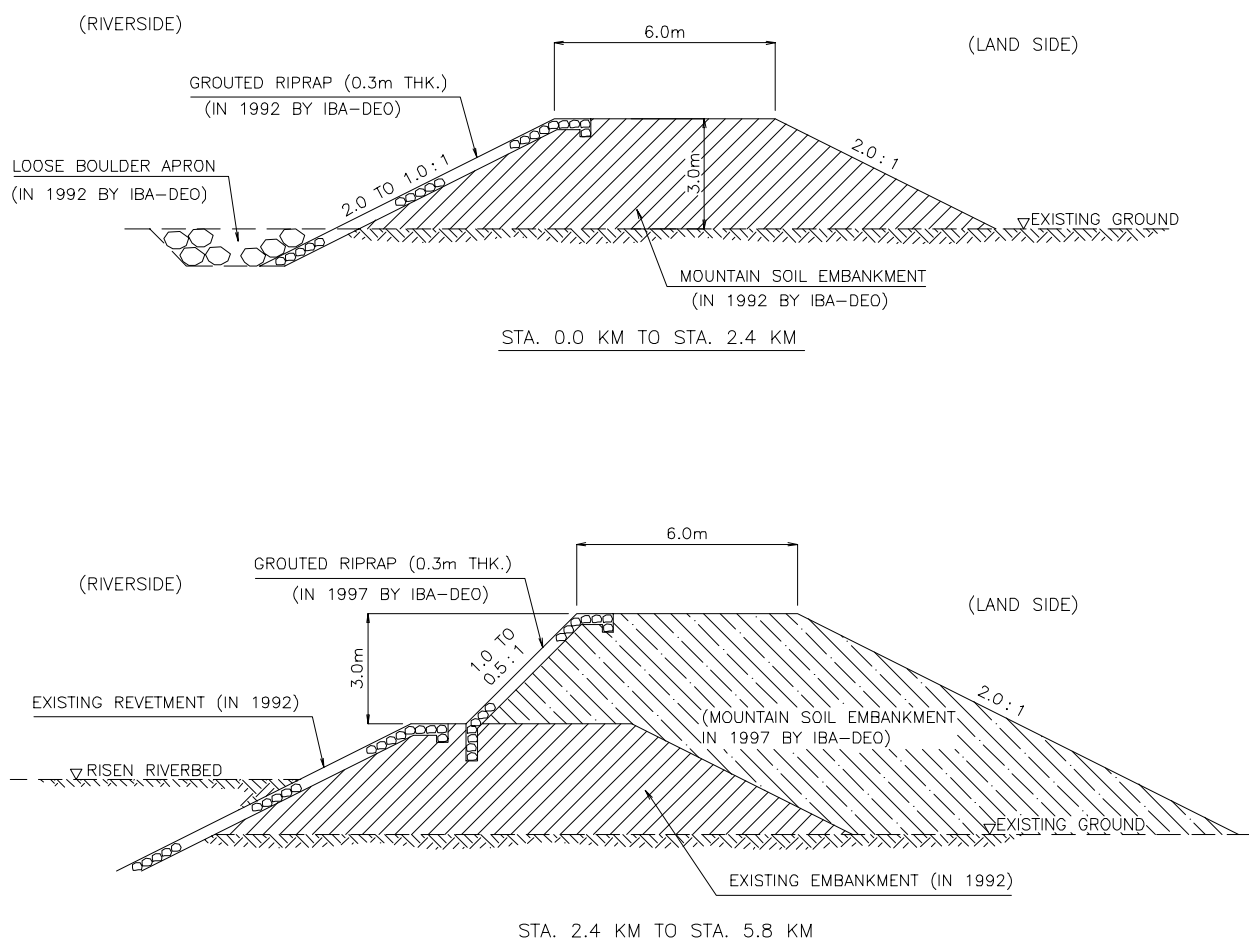
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Figure 3.7.3

**Existing Dike Arrangement along the Bucao
River**



SOURCE : DPWH DISTRICT ENGINEERING OFFICE IN IBA
(IBA-DEO)

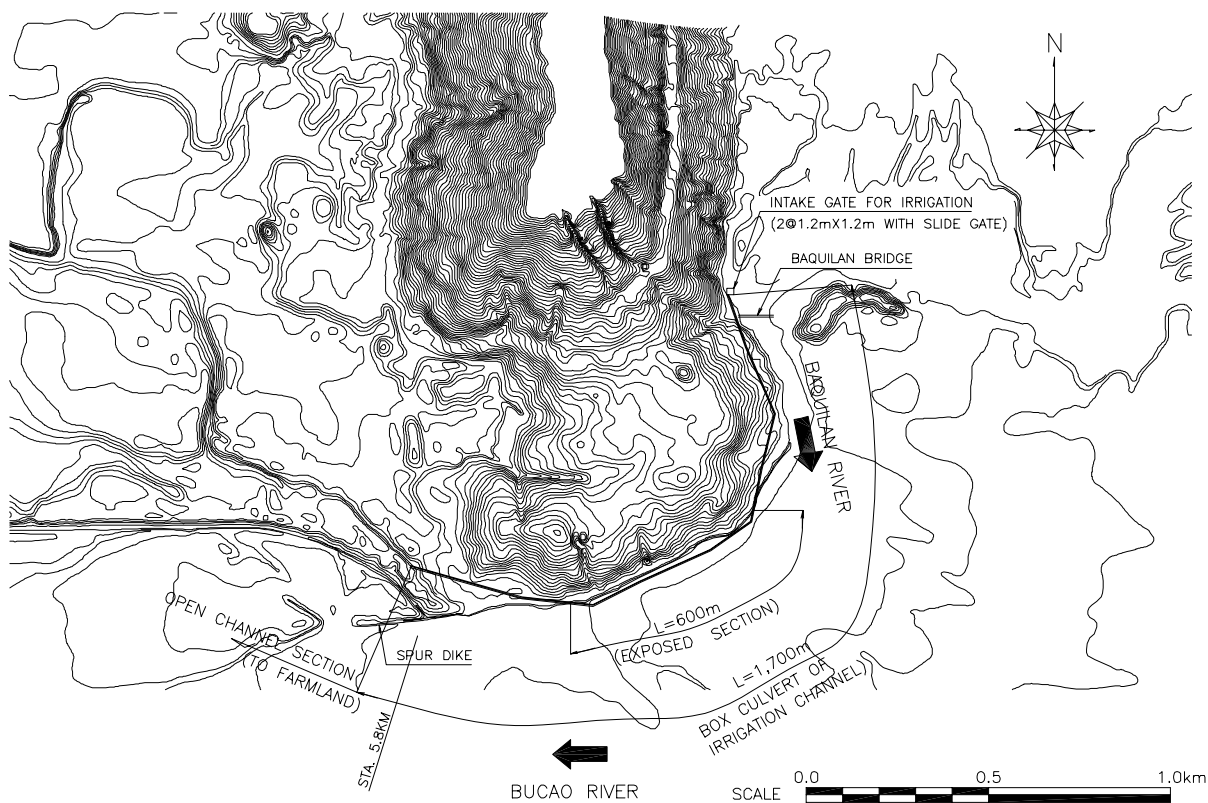
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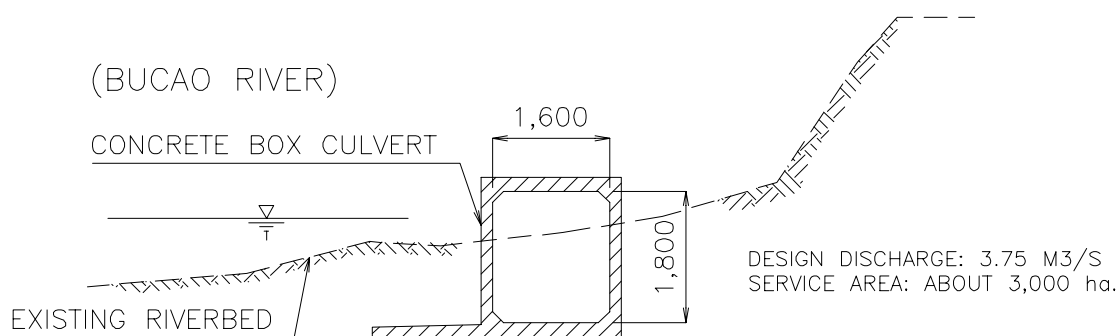
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Figure 3.7.4

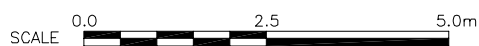
**Typical Cross Section of the Existing Dike along the
Bucao River (Right Bank)**



ARRANGEMENT OF IRRIGATION CHANNEL



IRRIGATION CHANNEL (EXPOSED SECTION)



SOURCE : NIA PROVINCIAL MANAGEMENT OFFICE (NIA-PMO)

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Figure 3.7.5

General Layout of Irrigation Channel along the Bucao River