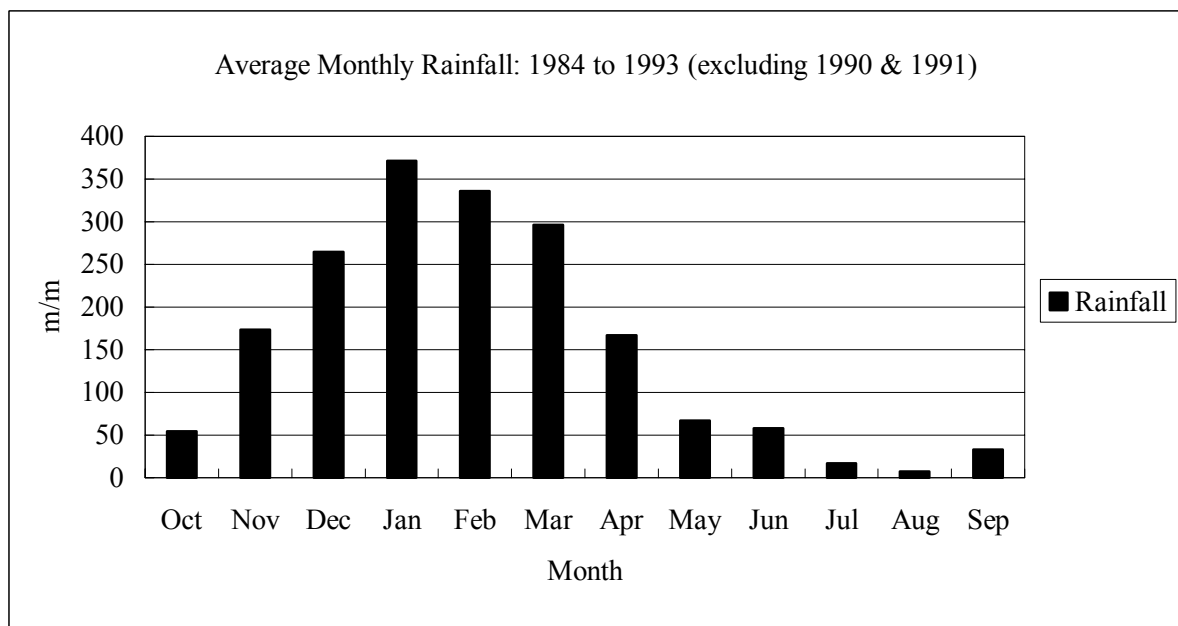


Part I Master Plan Study
Figures

Cropping Season	MT I (1st Cropping Season)				MT II (2nd Cropping Season)				MT III (3rd Cropping Season)				Remarks
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	
Typical Pattern	Palawija (single or plural) (Intensity 100%)				Beans (Intensity depending)				Cassava (Intensity depending)				Palawija: - Maize - Upland Rice - Beans



Unit: mm

Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1984	61	289	317	358	373	313	231	111	10	24	4	130	1,554
1985	103	139	215	245	303	511	210	55	116	6	13	0	1,459
1986	46	211	108	525	287	282	82	15	143	0	0	33	1,367
1987	0	0	517	613	298	134	98	25	0	0	0	0	1,168
1988	122	303	143	275	451	214	77	133	45	0	0	0	1,195
1989	29	104	219	142	406	217	205	109	69	97	14	31	1,290
1992	74	192	255	321	382	543	125	38	18	9	27	71	1,534
1993	0	150	346	493	189	159	308	49	66	0	3	0	1,267
Avg.	54	174	265	372	336	297	167	67	58	17	8	33	1,354

Source: Report on The Evaluation of Wonogiri Watershed Management, Research & Development Project of Solo Watershed Management, 1995

256 Wet month ($\geq 200\text{mm}$) 120 Humid Month ($\geq 100\text{mm} - < 200\text{mm}$) 38 Dry month ($< 100\text{mm}$)

Figure 2.5.1 Generalized Cropping Schedule and Pattern in DAS Wonogiri

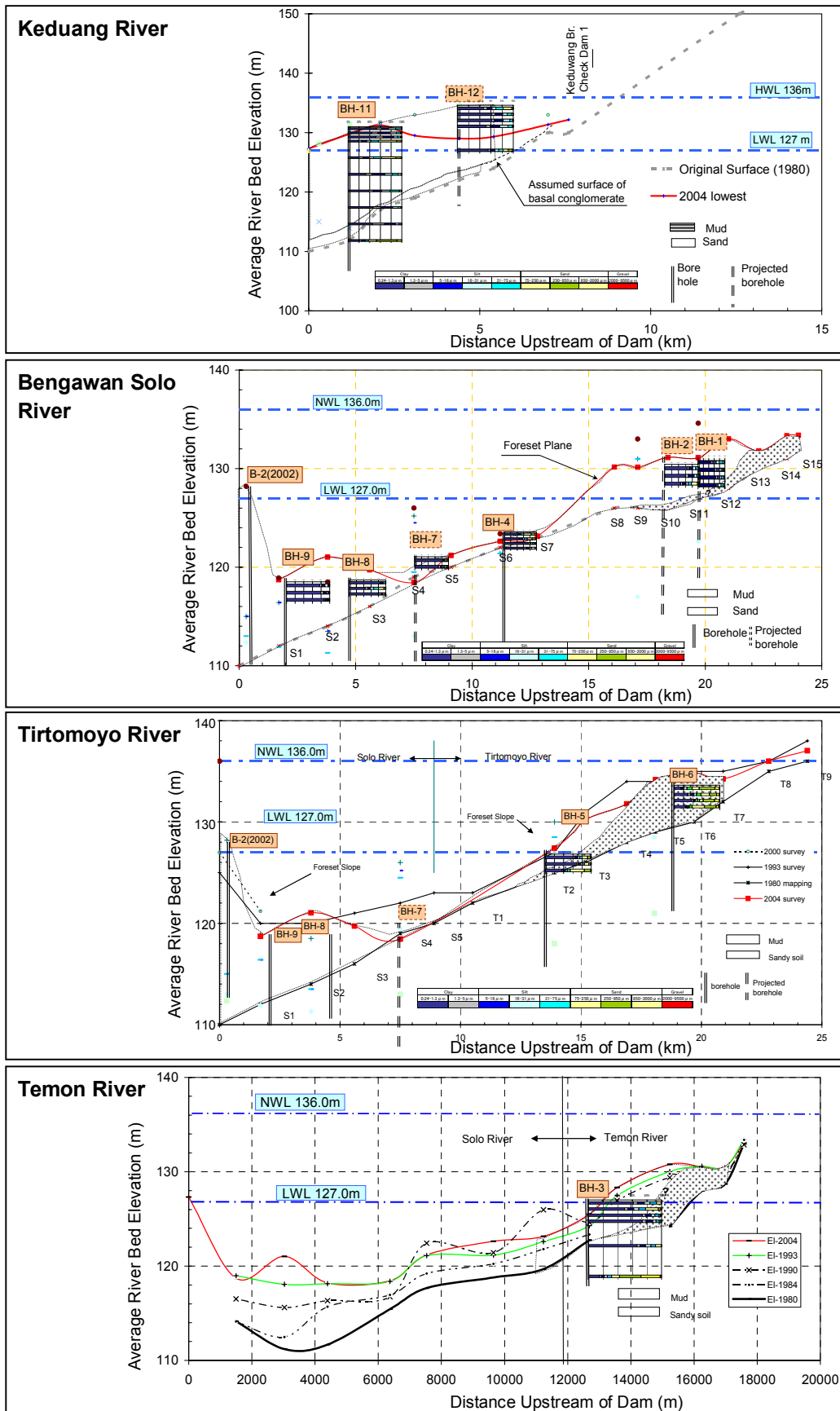


Figure 3.3.2 Longitudinal Geological Sections of Wonogiri Reservoir

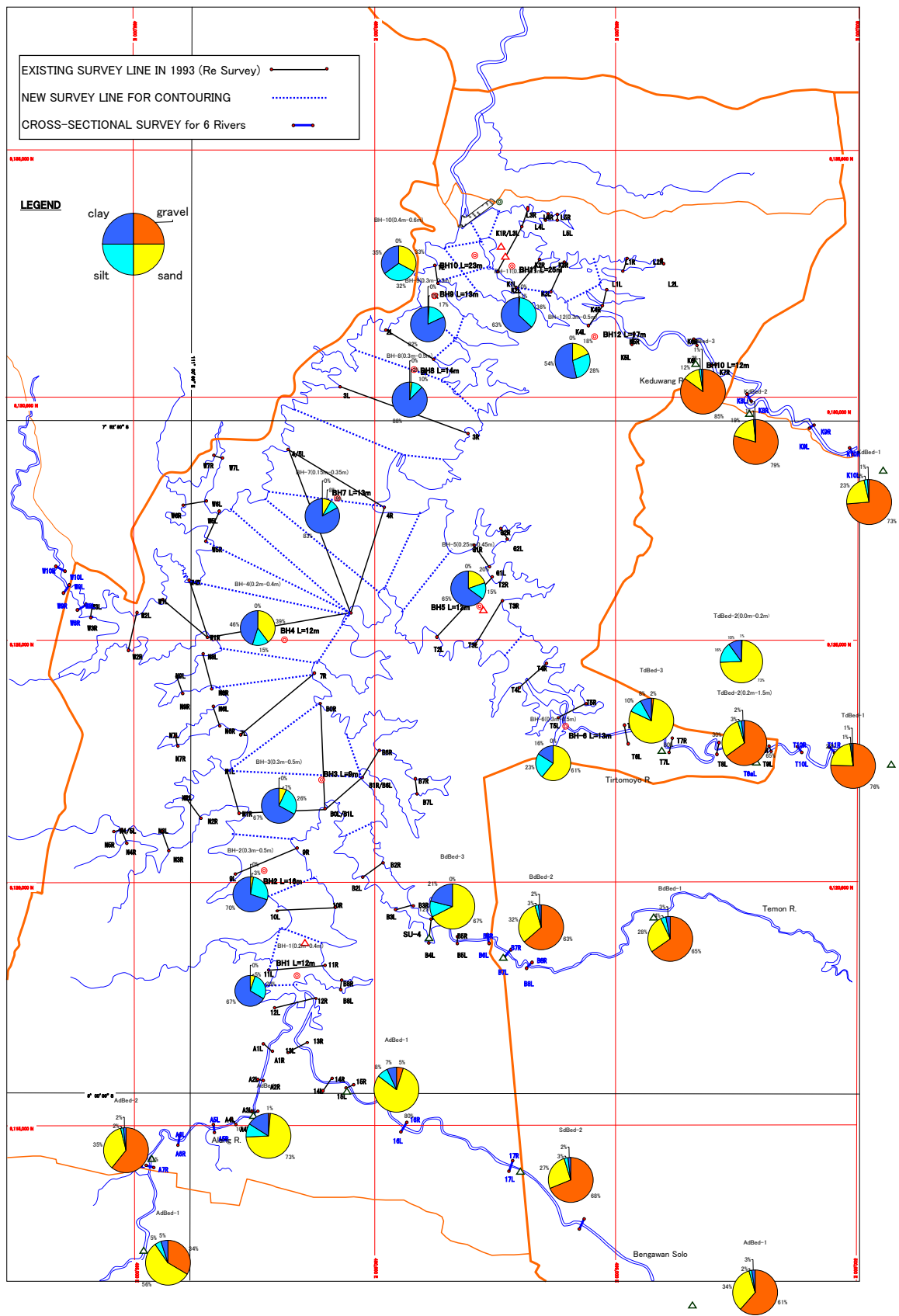


Figure 3.3.3 Composition of Surface Sediment Materials in Wonogiri Reservoir and Five (5) Major Tributaries

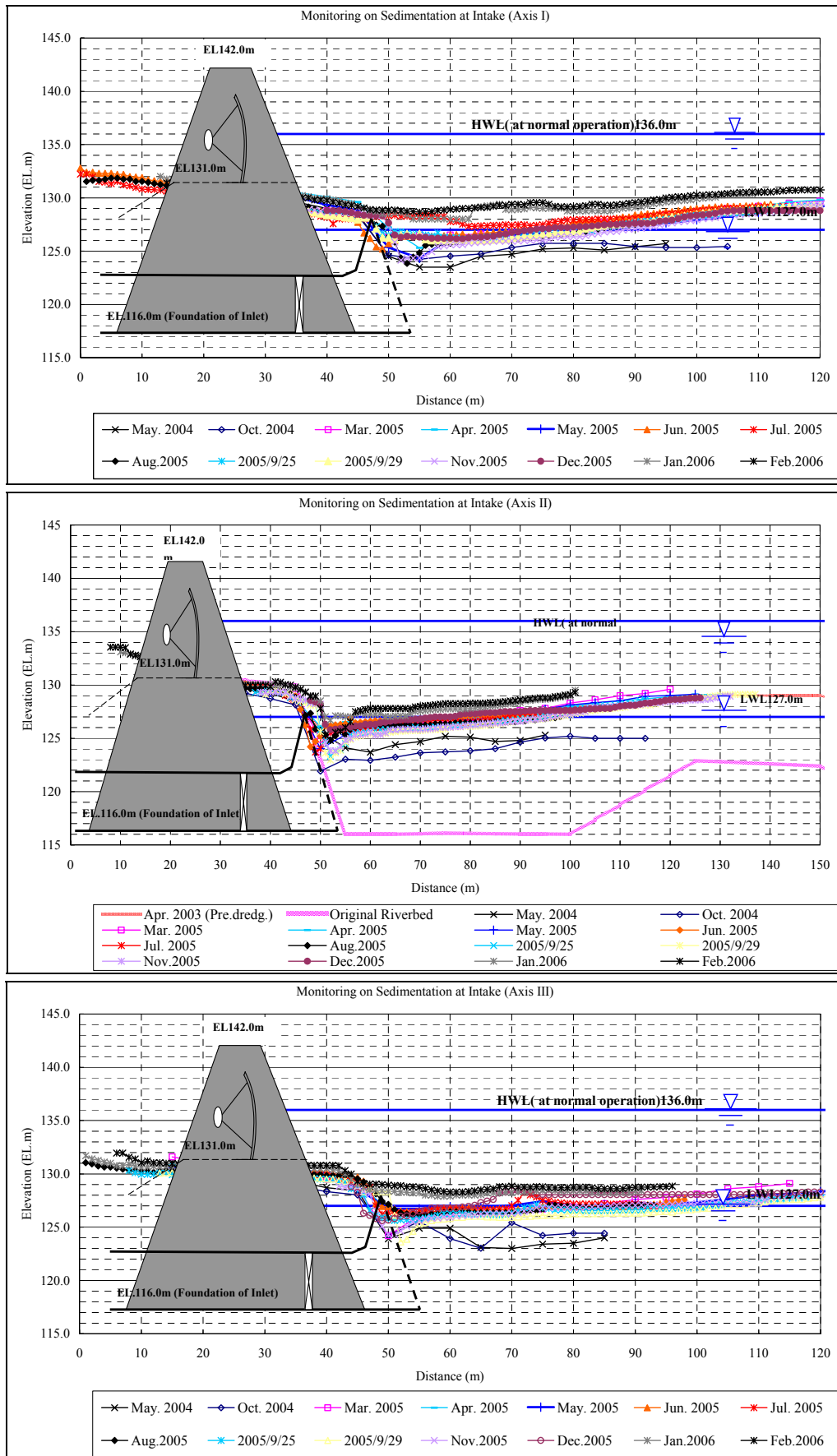


Figure 3.4.2 Result of Monitoring on Sedimentation at Intake

Intake Tower on Existing Intake

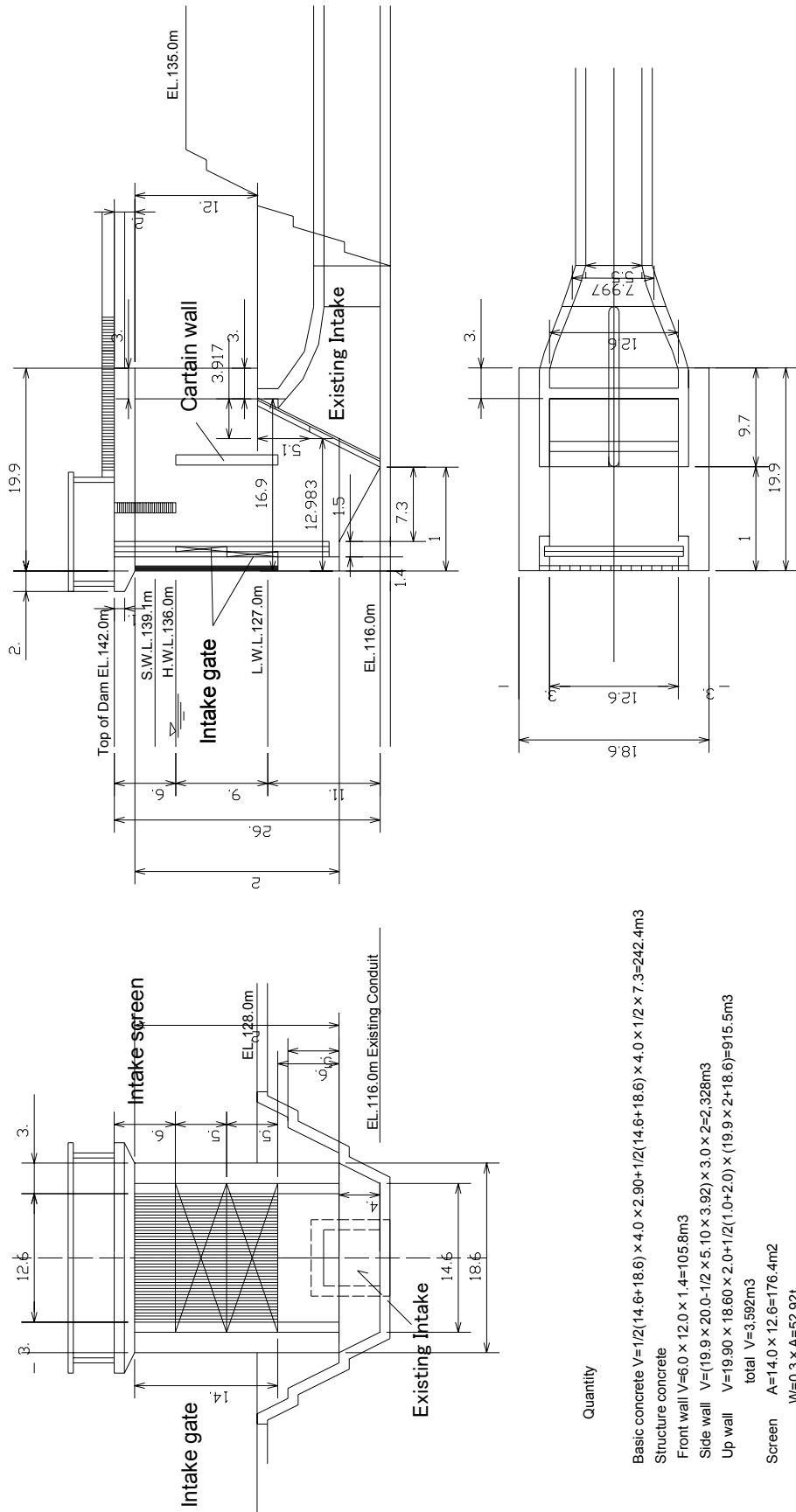


Figure 8.2.2 Layout Plan of Intake Modification

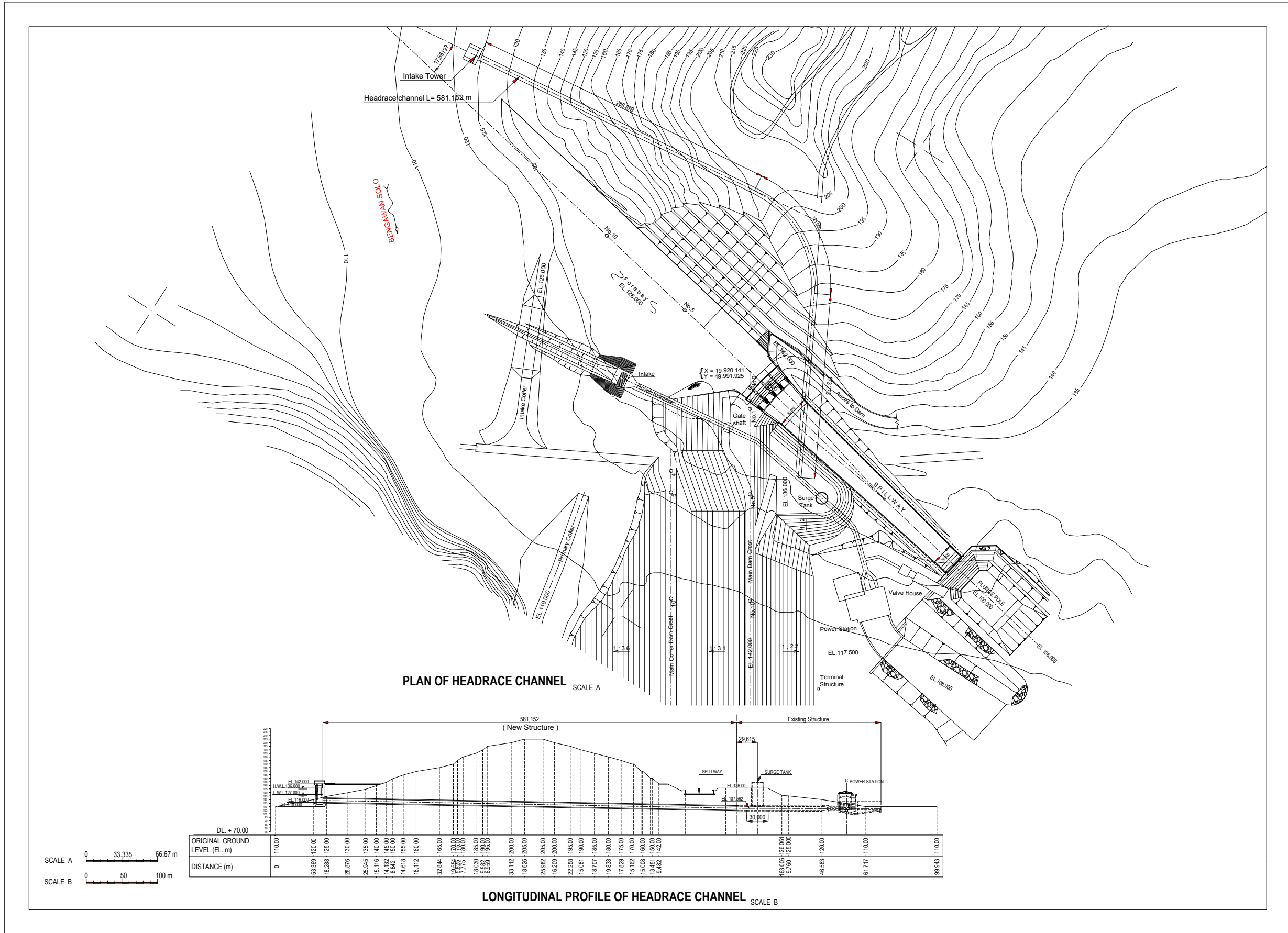


Figure 8.2.3 Layout Plan and Profile of Relocation of Intale

Debris trapping structure at Intake

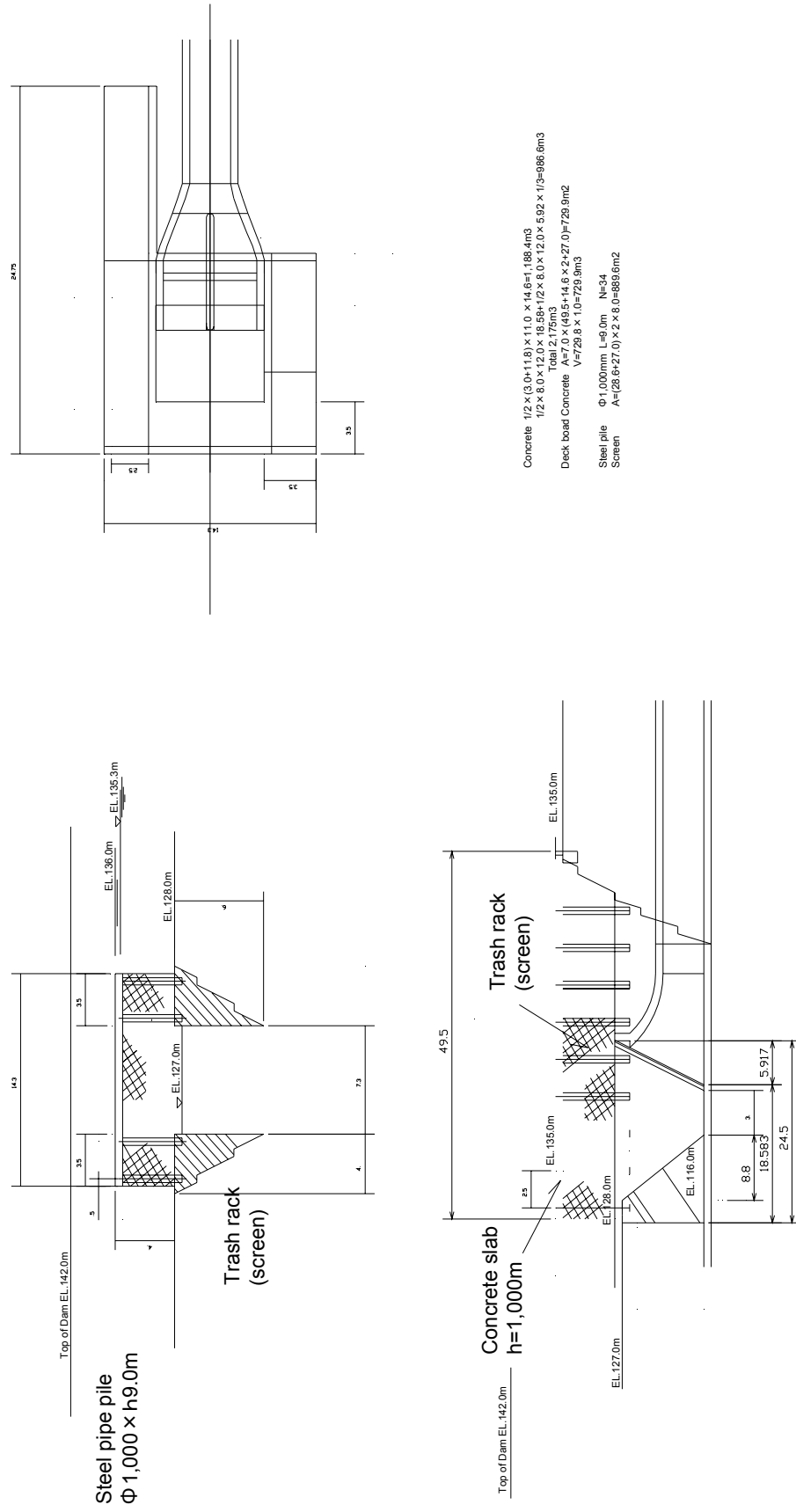
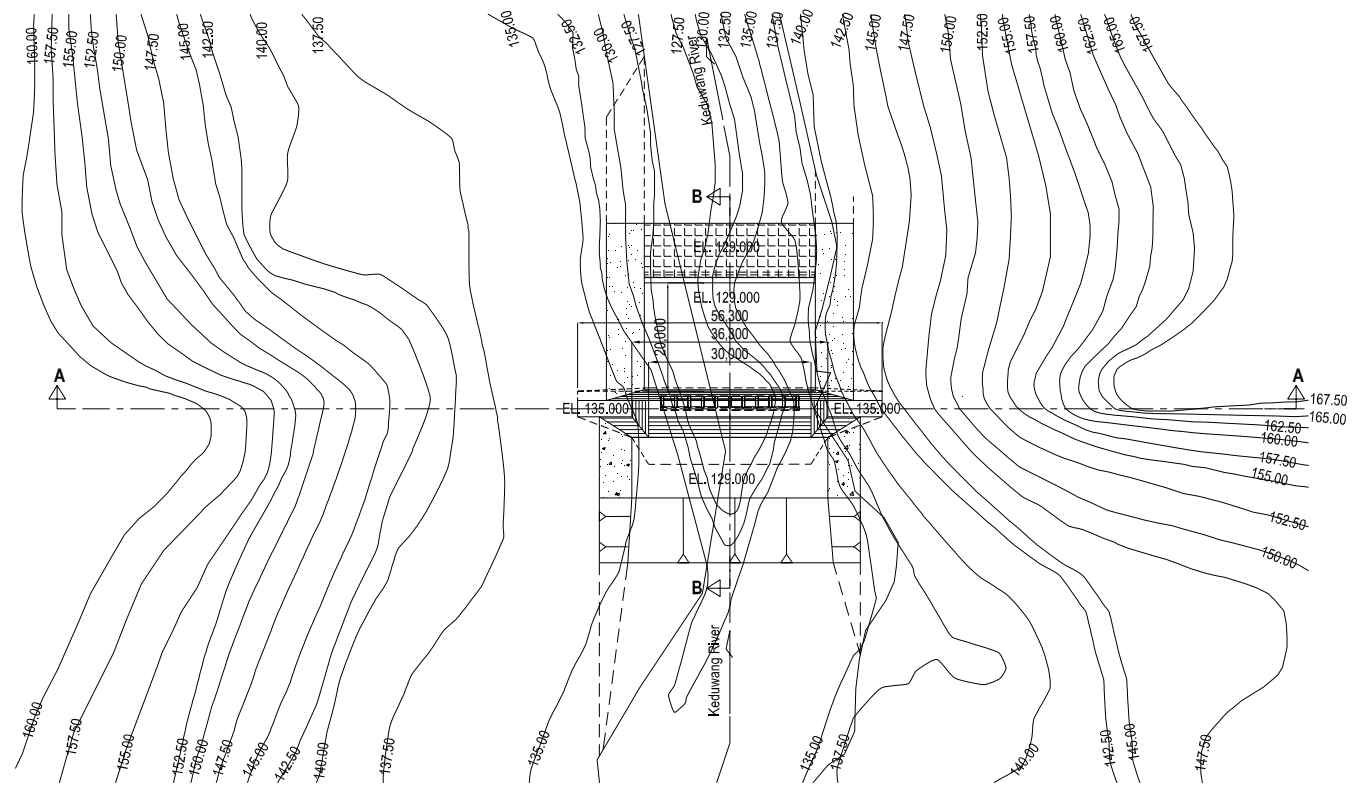
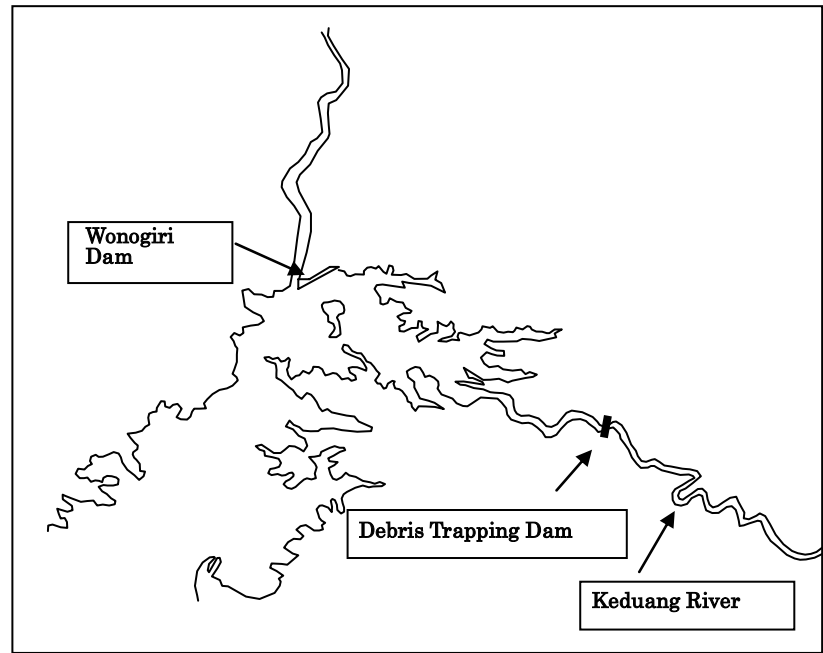
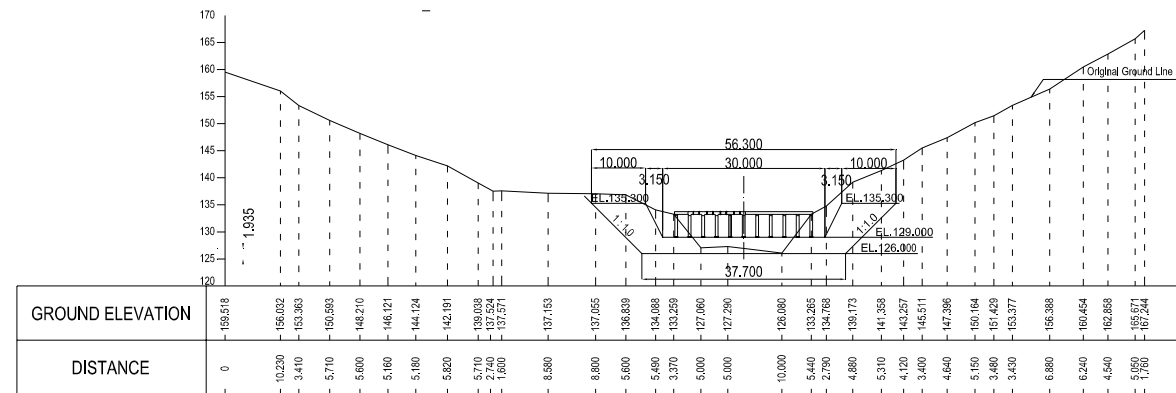


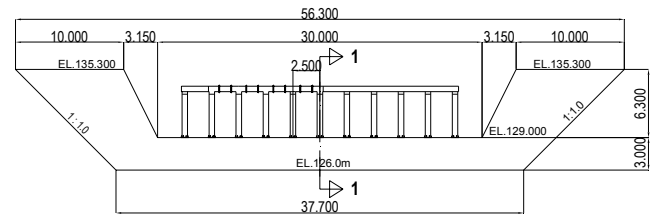
Figure 8.2.5 Layout Plan of Garbage Trapping Structure at Intake



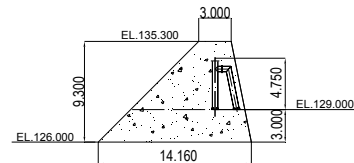
PLAN
SCALE A



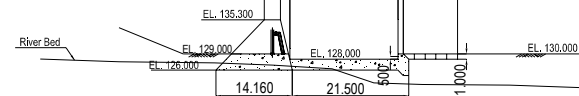
SECTION A - A
SCALE A



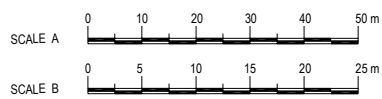
DEBRIS TRAPPING WEIR
SCALE B



SECTION 1 - 1
SCALE B



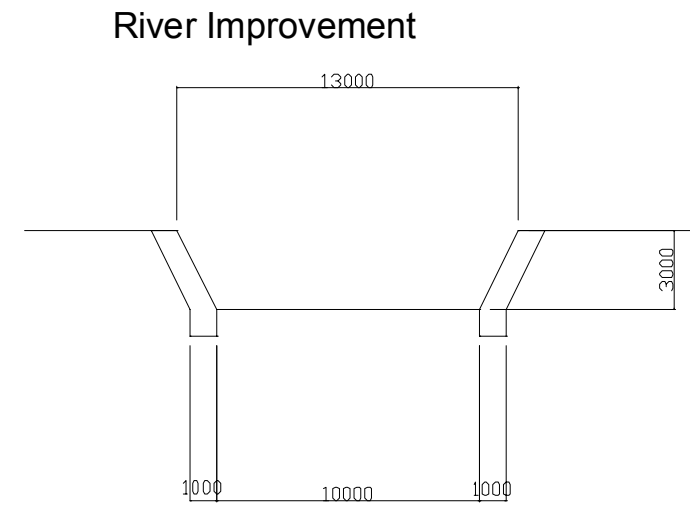
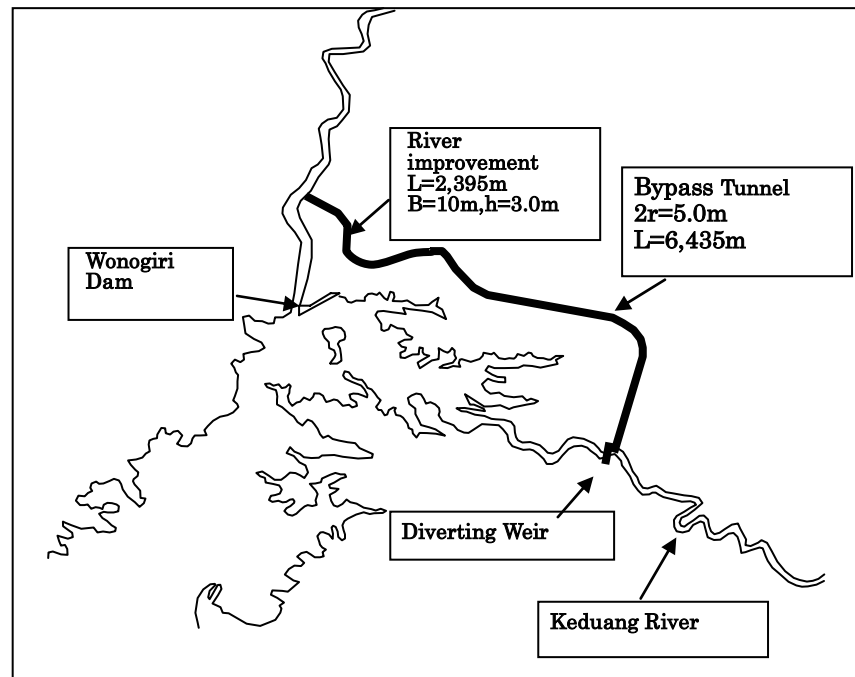
SECTION B - B
SCALE A



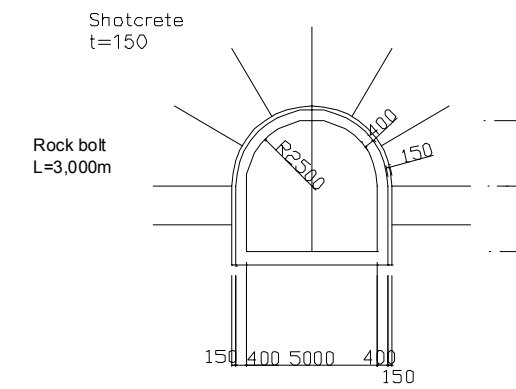
WONOGIRI MULTI PURPOSE DAM DIVERTING WEIR

Figure 8.2.6 General Layout of Garbage Trapping Structure in Keduang River

Typical Cross section of Bypass Channel



Diverting Tunnel



LONGITUDINAL PROFILE

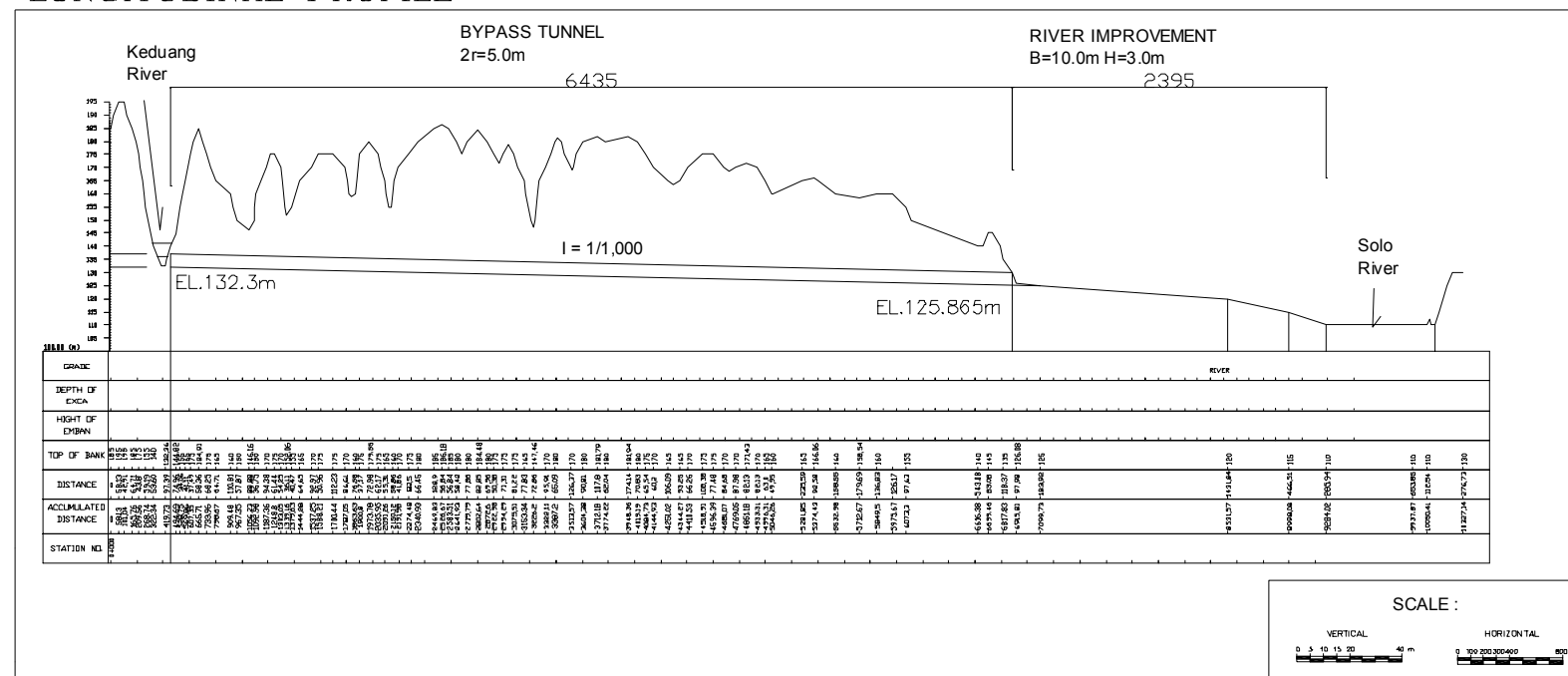
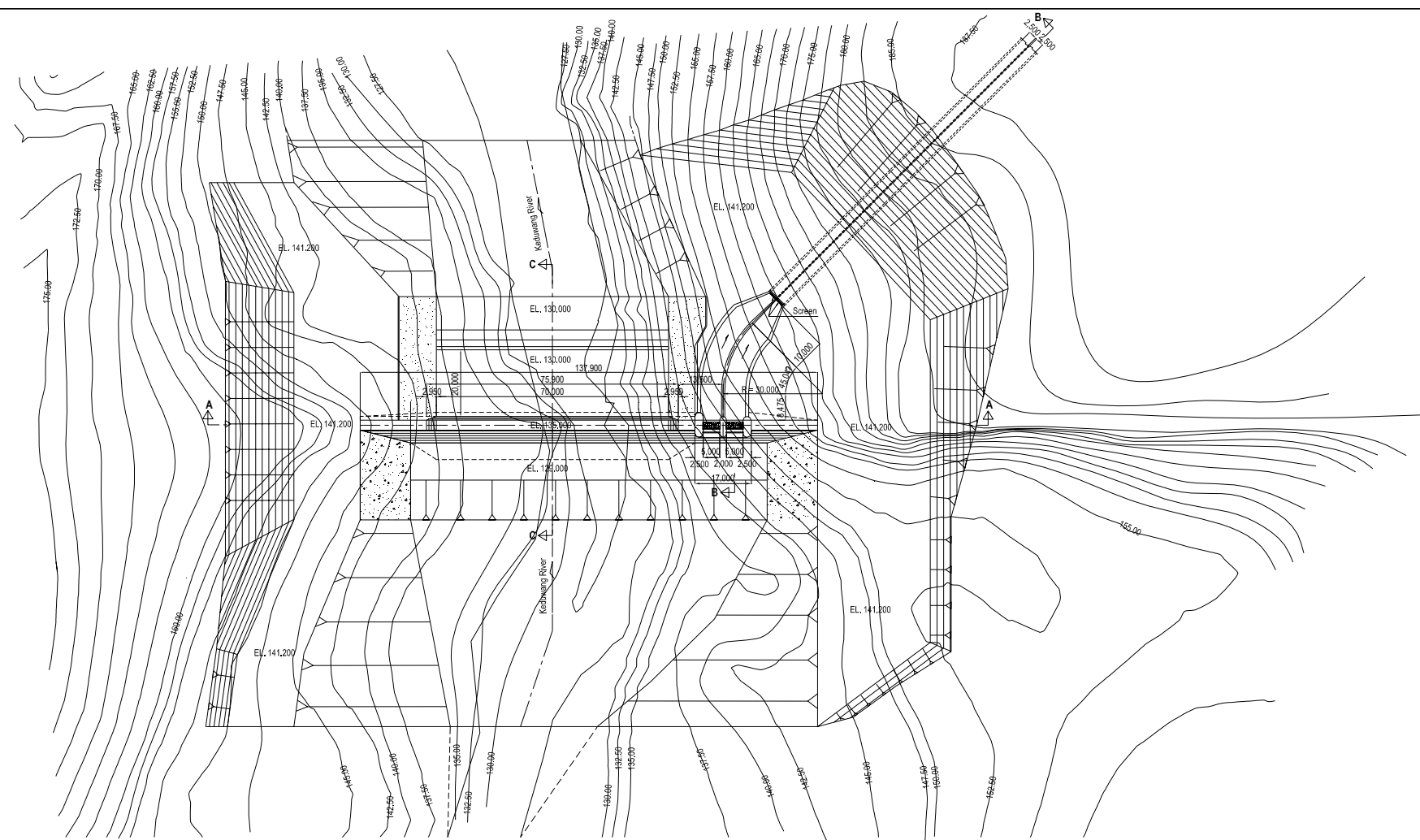
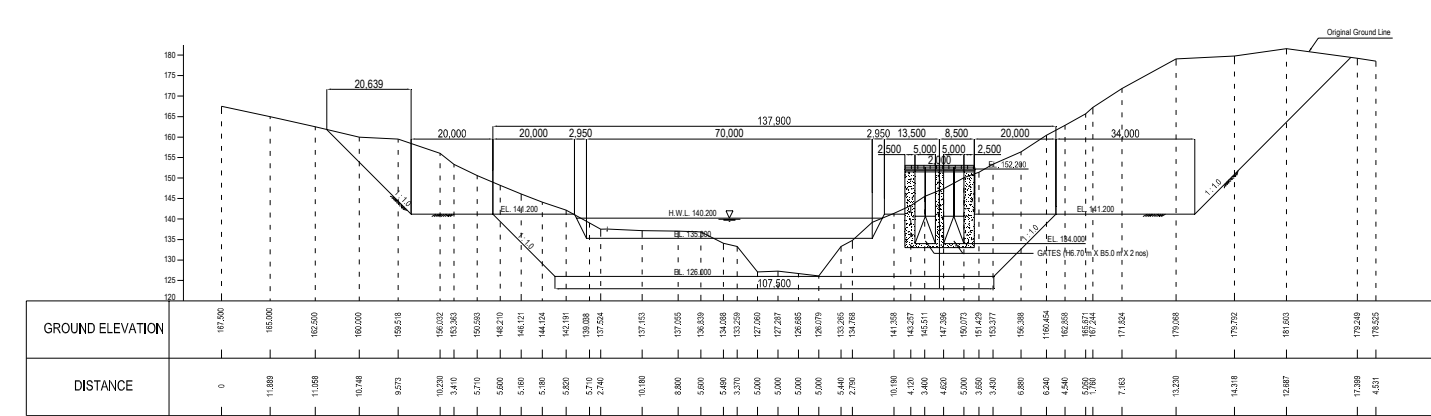


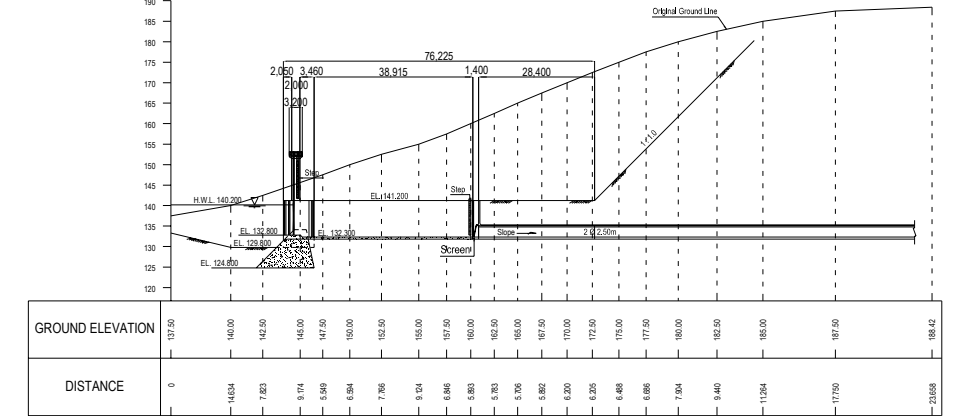
Figure 8.3.2 Layout Plan of Keduang River Sediment Bypass (1/2)



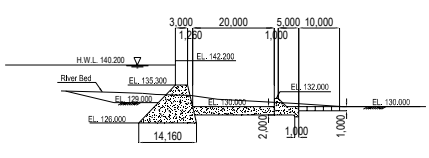
PLAN



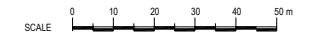
SECTION A - A



SECTION B - B



SECTION C - C



WONOGIRI MULTI PURPOSE DAM DIVERTING WEIR

Figure 8.3.2 Layout Plan of Keduang River Sediment Bypass (2/2)

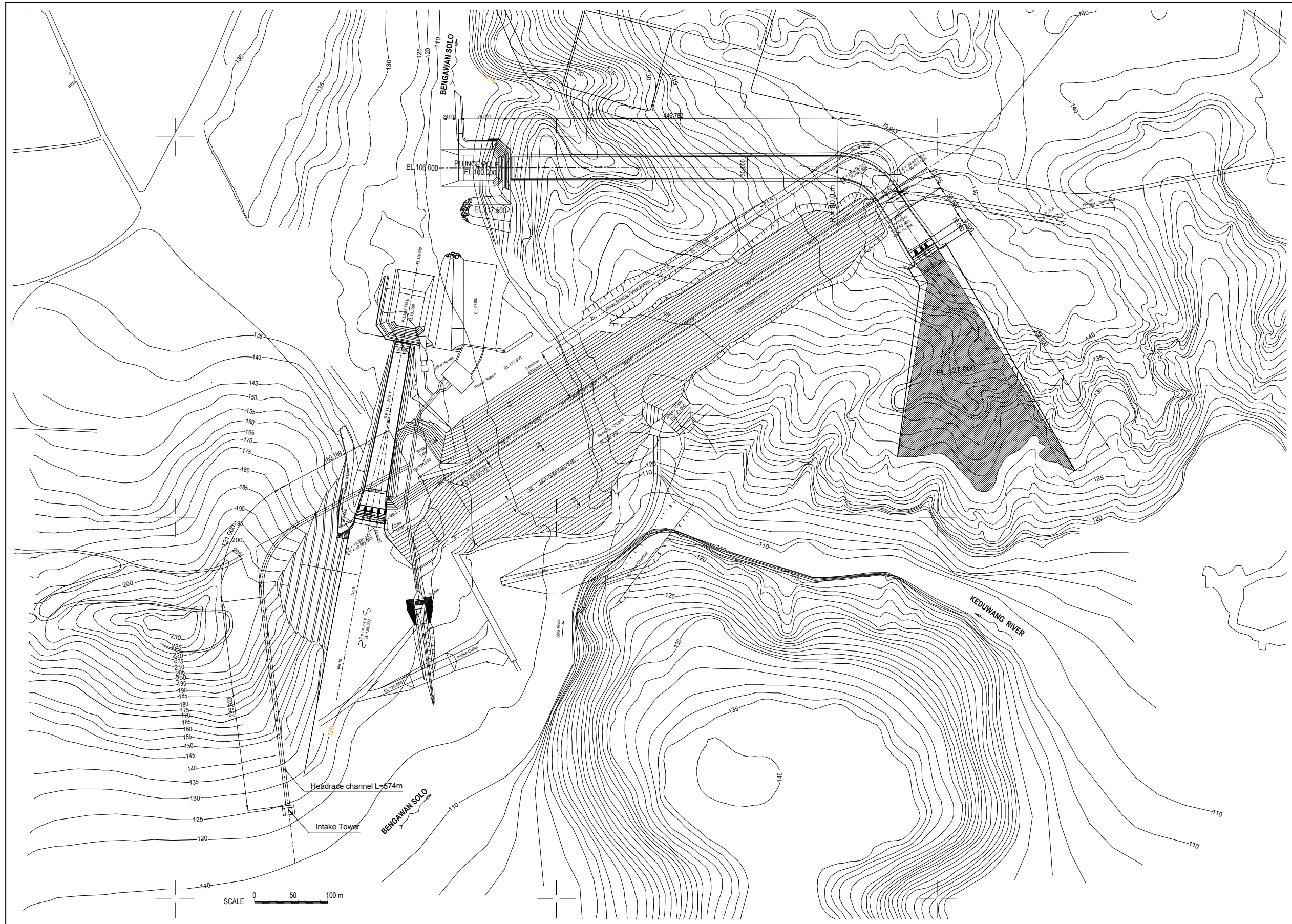
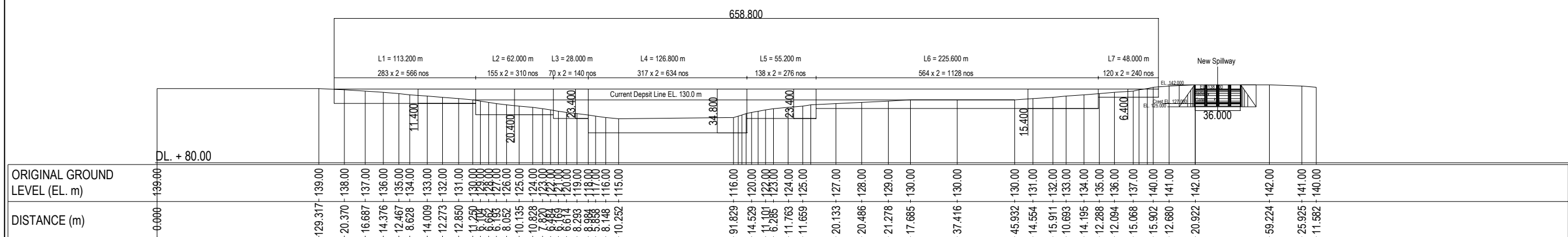
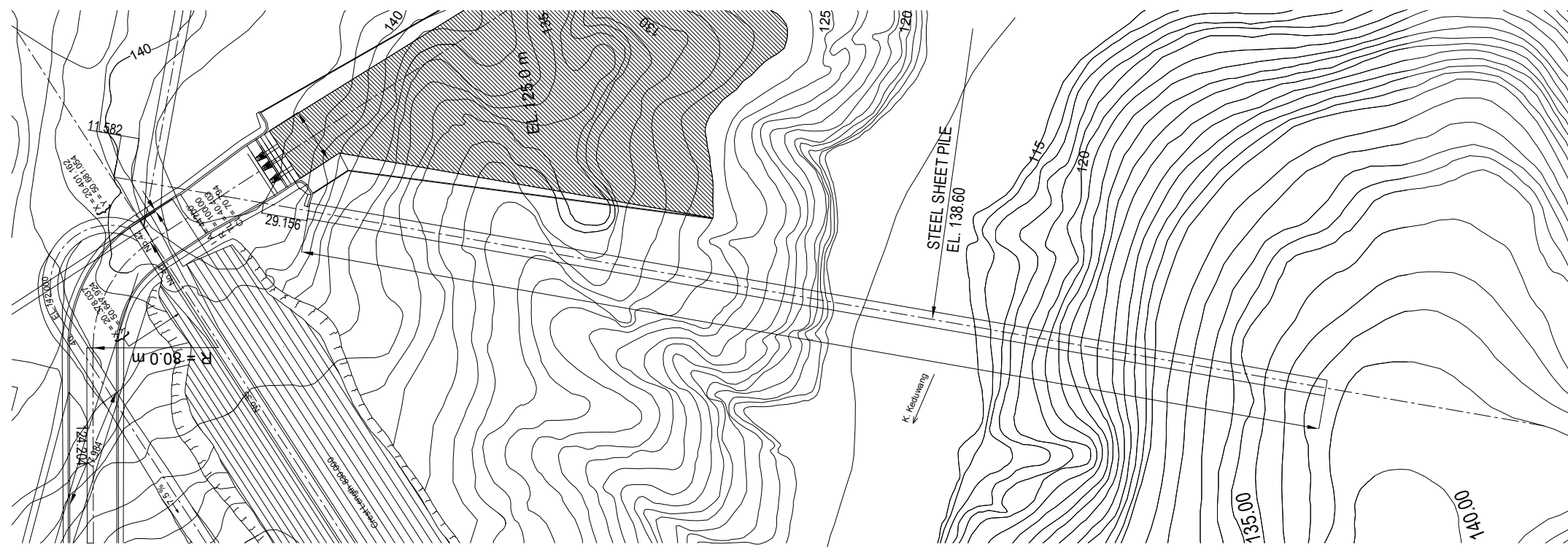


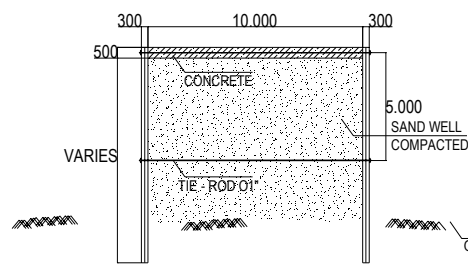
Figure 8.3.5 Layout Plan of Sediment Sluicing by New Gates



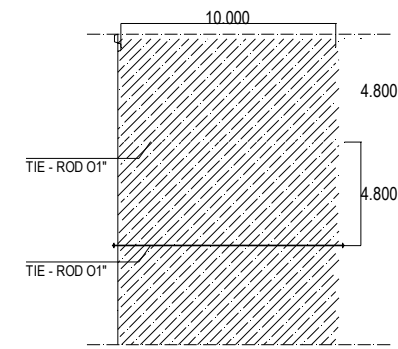
LONGITUDINAL PROFILE OF COVER DAM SCALE A

QUANTITY

- L1 = 566 nos x 11.400 = 6,452.4 m
- L2 = 310 nos x 20.400 = 6,324 m
- L3 = 140 nos x 23.400 = 3,276 m
- L4 = 634 nos x 34.800 = 22,063.2 m
- L5 = 276 nos x 23.400 = 6,458.4 m
- L6 = 1,128 nos x 15.400 = 17,371.2 m
- L7 = 240 nos x 6.400 = 1,536 m
- Length of double-wall coffer dam = 658.8 m
- Number of Sheet pile (W=0.400 m) = 1,647 x 2 = 3,294 nos
- Total Sheet Pile length = 63,481.2 m



SIDE VIEW STEEL SHEET PILE SCALE B



UPPER VIEW STEEL SHEET PILE SCALE B



Figure 8.3.8 Layout Plan of Closure Dike

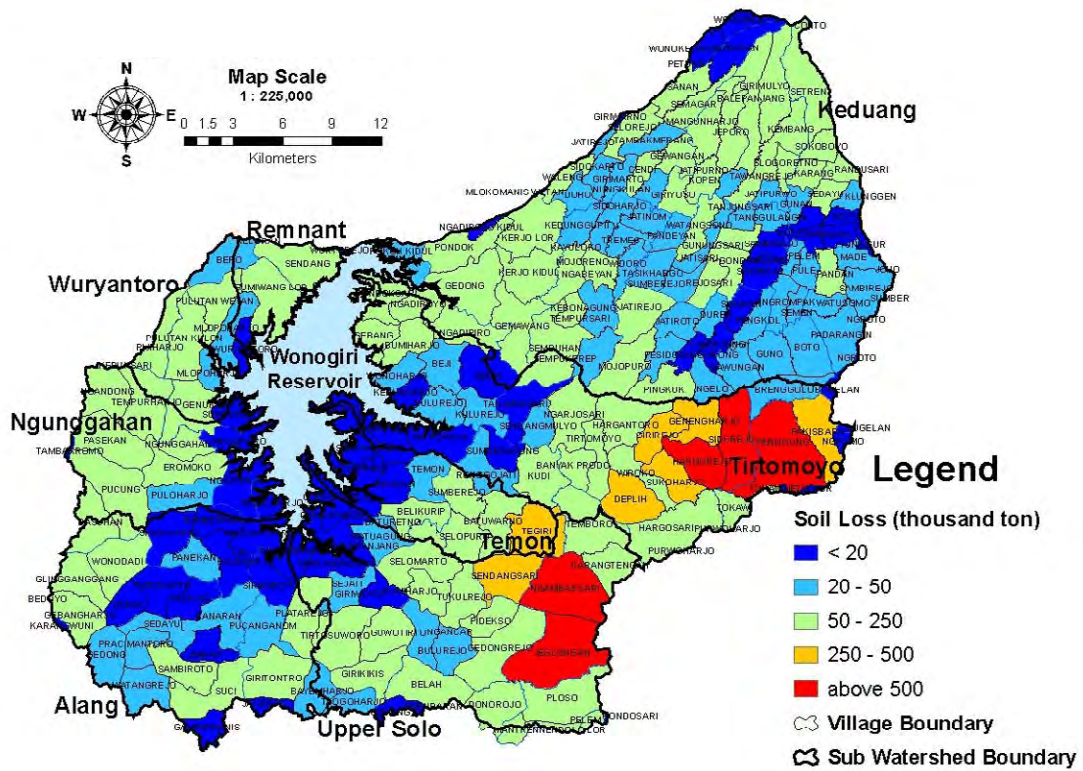


Figure 9.3.3 Present Annual Soil Loss of Village in Wonogiri Watershed

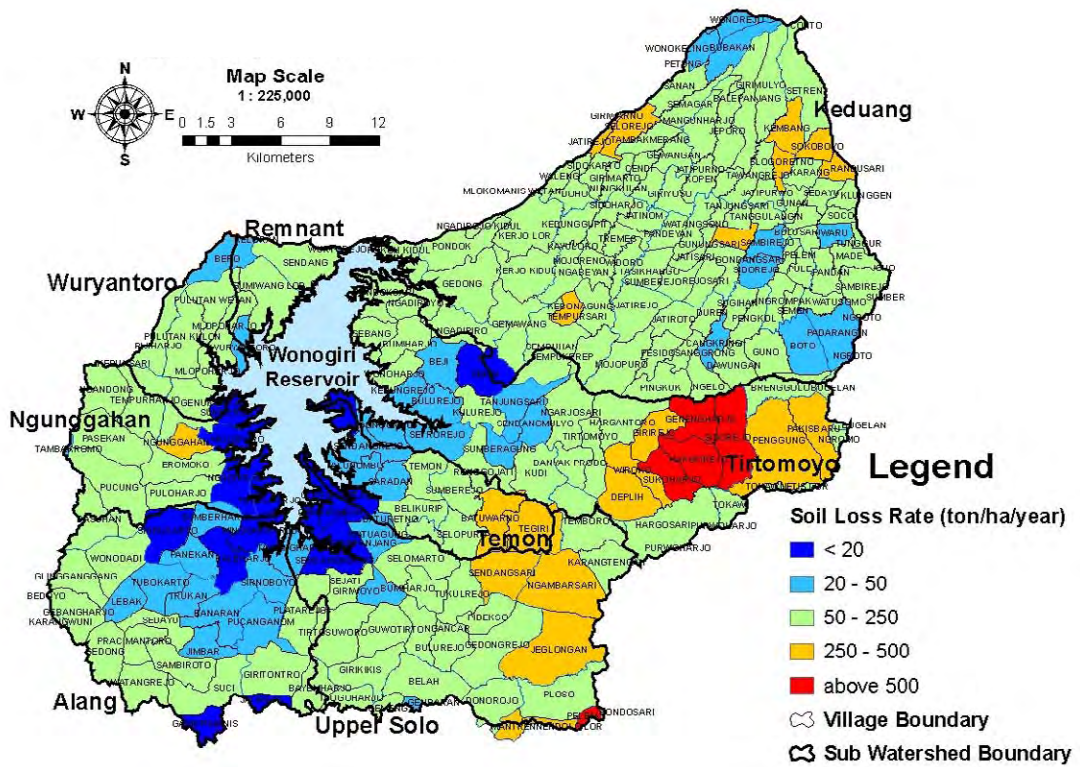


Figure 9.3.4 Present Annual Soil Loss per Hectare of Village in Wonogiri Watershed

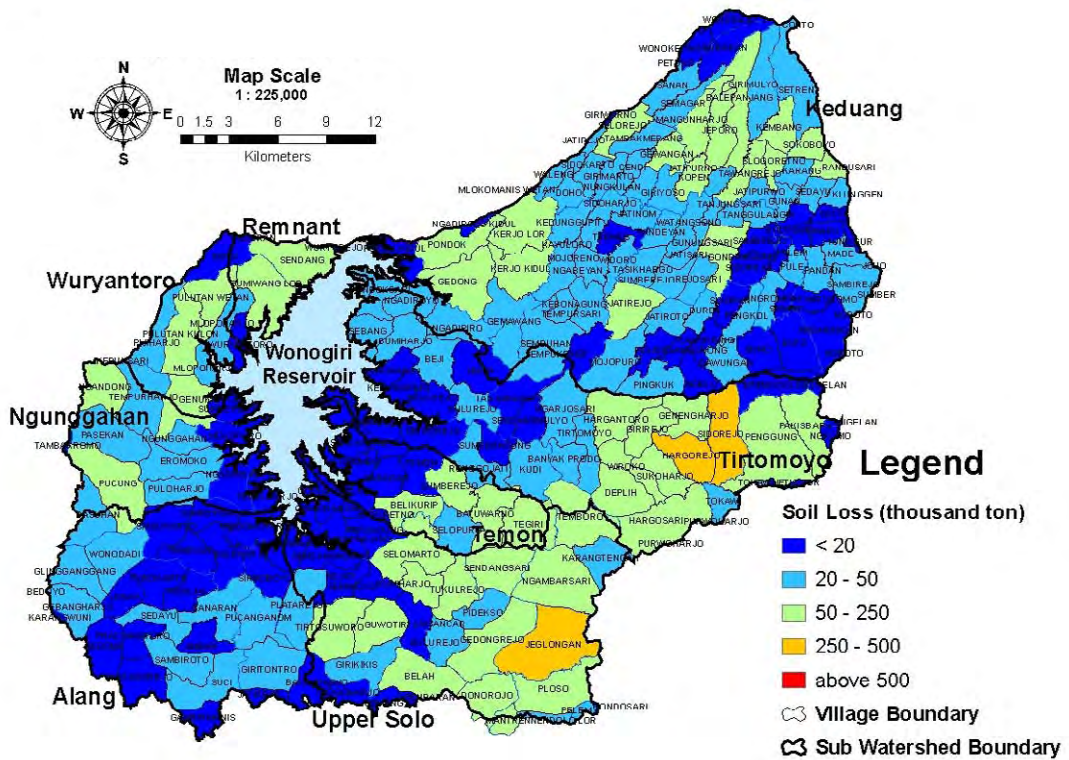


Figure 9.3.5 Future Annual Soil Loss of Village in Wonogiri Watershed

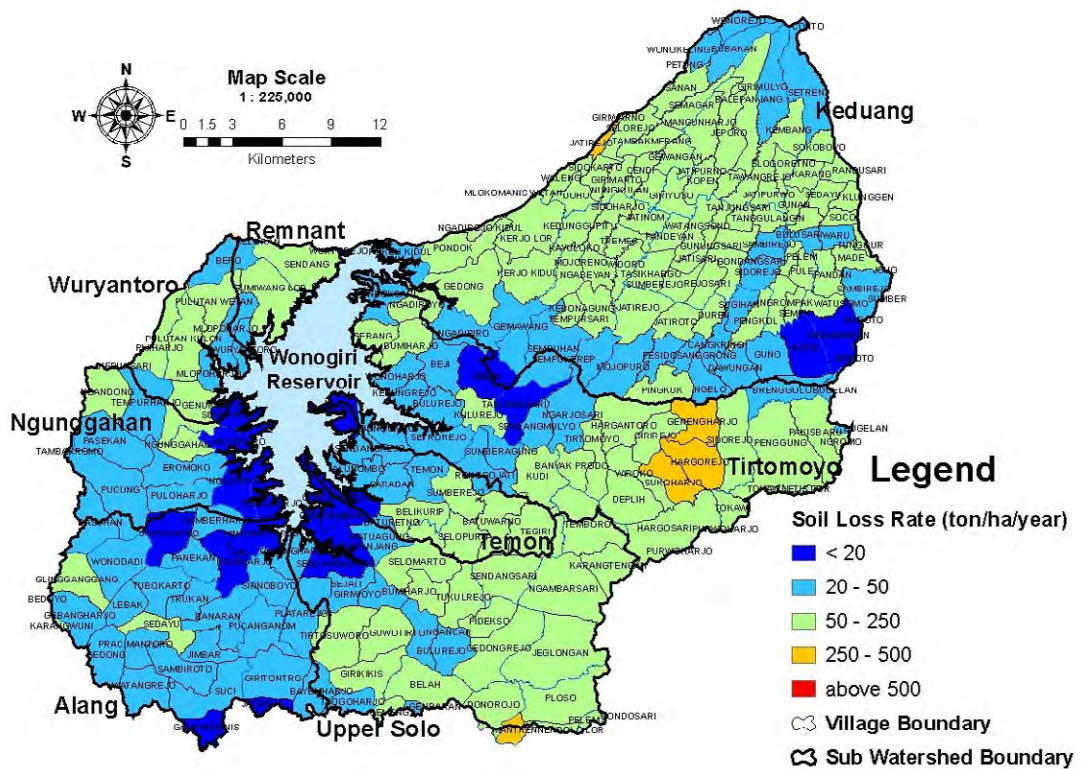


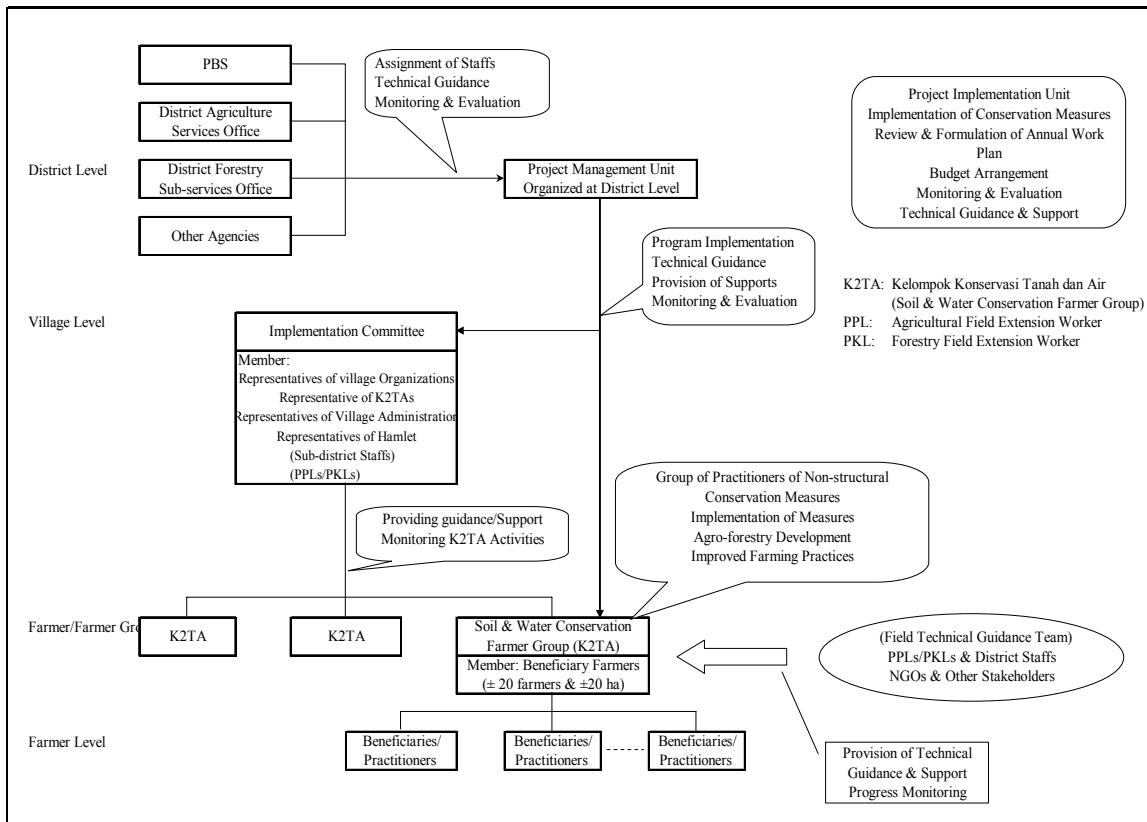
Figure 9.3.6 Future Annual Soil Loss per Hectare of Village in Wonogiri Watershed

Project Activities	1st Year	2nd Year	3rd Year	4th Year	5th	6th & on
	Preparatory Stage		Implementation Stage			
1. Implementation of VA&VAP	---					
- Village Assessment and Village Action Plan	---					
- Formulation of Implementation Committee	---					
- Support for Implementation Committee	---					
2 Farmer Group (K2TA) Formation Program	---					
- Mass Guidance/Socialization/Workshop	---					
- Support for Formation of K2TA	---					
3 Farmer Group Empowerment Program		---	---			
- Key Farmer Training		---	---			
- Demonstration Activities by Key Farmers		---	---			
- Mass Guidance on Conservation Measures				
- Need Inventory on Agro-forestry etc.		---	---			
4 Terrace Formation Guidance Program			---	---		
5 Agro-forestry Development Program (for 3 years)			---	---	---	
6 Farming Support Program (for 1 cropping season)			---			
7 Field Guidance Program		
8 Agricultural Support Programs		

--- Program schedule
 Continuous activities or activities to be made during the period

Source: JICA Study Team

Figure 11.5.2 Basic Implementation Arrangement for Watershed Conservation Measures



Source: JICA Study Team

Figure 11.5.3 Tentative Proposed Organizational Set-up at Field & Village Level for Implementation of Conservation Measures