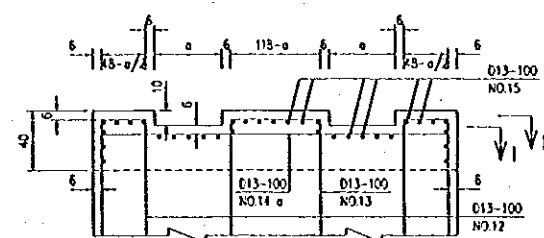


NOTE :
CONCRETE K-225
REINFORCED STEEL BAR U-39

REBAR BENDING LIST PIER CIREBON/SEMARANG SIDE

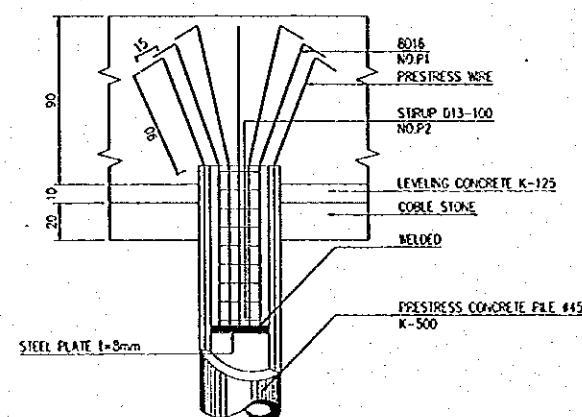
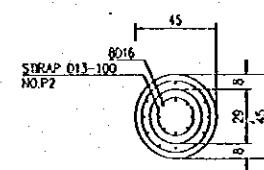
NO	TYPE	SIZE	a (cm)	b (cm)	c (cm)	d (cm)	e (cm)	R (cm)	LENGTH (cm)	NOS	UNIT WEIGHT Kg/m	UNIT WEIGHT (Kg)
1(a)	B	D22	119	638	119				876	100	2.980	2610.48
1(b)	B	D22	119	638-90 (variable)	119				876-328 (variable)	30	2.980	538.19
2(a)	C	D29	1067	133					1200	64	5.190	3355.92
2(b)	C	D29	417-247 (variable)	133					550-380 (variable)	64	5.190	1544.54
3(a)	I	D16	353	353	64				770	10	1.580	121.66
3(b)	J	D16	64	1026					1090	10	1.580	172.22
4	F	D19	105	374-20 (variable)	540-320 (variable)				1019-340 (variable)	128	2.230	1939.56
5(a)	D	D19	114	244	150	244			752	28	2.230	469.55
5(b)	D	D19	114	244-40 (variable)	150-638 (variable)	244-40 (variable)	114		866-832 (variable)	22	2.230	416.52
5(c)	B	D19	114	638-90 (variable)	114				866-318 (variable)	18	2.230	237.63
6	C	D22	88	670					758	156	2.980	3523.79
7	E	D13	60	214	553				827	64	1.040	550.45
8	G	D16	64	130	32				226	128	1.580	457.06
9(a)	E	D16	60	374	553				897	8	1.580	124.76
9(b)	E	D13	60	374-214 (variable)	553				897-827 (variable)	6	1.040	56.60
10(a)	A	D13	560						560	13	1.040	75.71
10(b)	E	D16	60	187-63 (variable)	60				307-183 (variable)	12	1.580	46.45
11(a)	B	D19	64	238	64				366	56	2.230	457.06
11(b)	B	D19	64	110	64				238	38	2.230	201.68
12	B	D13	70	18 ^{*)}	70				158	28	1.040	45.01
13	B	D13	70	56 ^{*)}	70				158	14	1.040	28.83
14(a)	B	D13	70	238	70				378	15	1.040	62.90
14(b)	A	D13	238						238	15	1.040	39.60
15(a)	B	D13	70	128	70				268	28	1.040	78.04
15(b)	A	D13	128						128	28	1.040	37.27
16	B	D13	70	23 ^{*)}	70				163	56	1.040	94.93
17(a)	H	D13	13	154-124 (variable)	44	154-124 (variable)	13		378-318 (variable)	200	1.040	723.84
17(b)	B	D13	52	44	52				152	200	1.040	316.16
P1	K	D16	150	100	100				205	192	1.580	621.89
P2	L	D13	65				8.5	8.5	85	264	1.040	233.38
TOTAL												19812.69

*) DEPEND ON DIMENSION OF STEEL BEARING (SHOE)

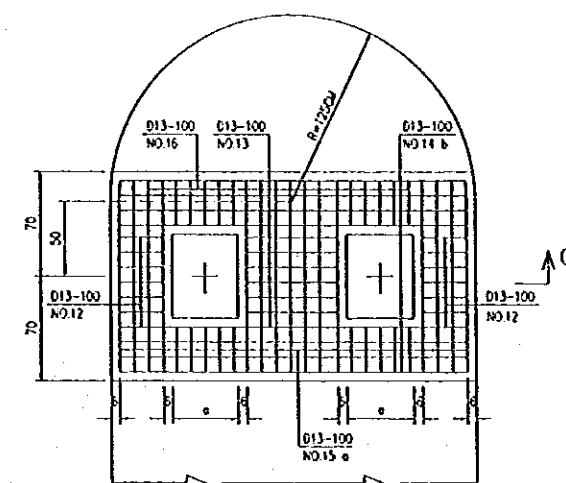


SECTION G-G
SCALE 1 : 25

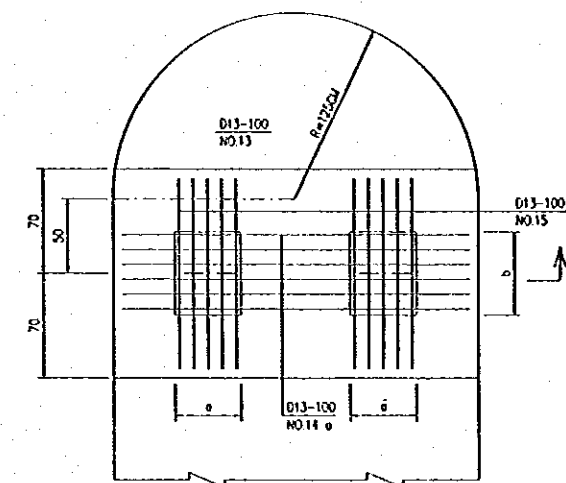
RE BAR ARRANGEMENT AROUND BEARING STEEL
SCALE 1 : 25



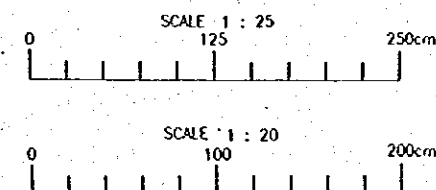
CONNECTION BETWEEN PILE CAP AND PRESTRESS CONCRETE PILE Ø45 CM
SCALE 1 : 20



SECTION H-H
SCALE 1 : 25

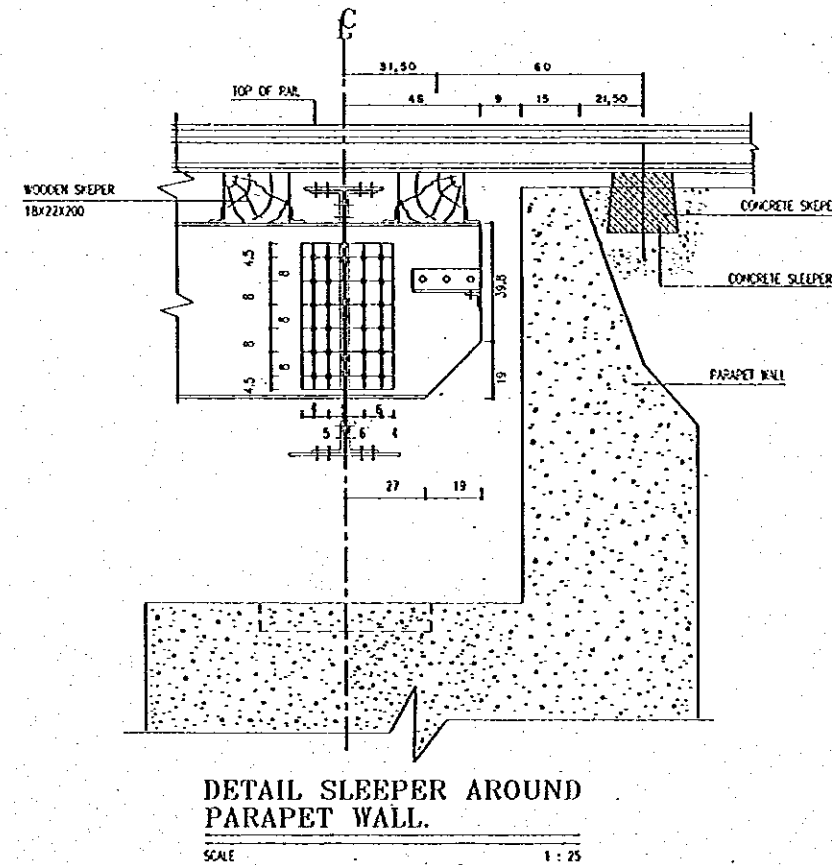
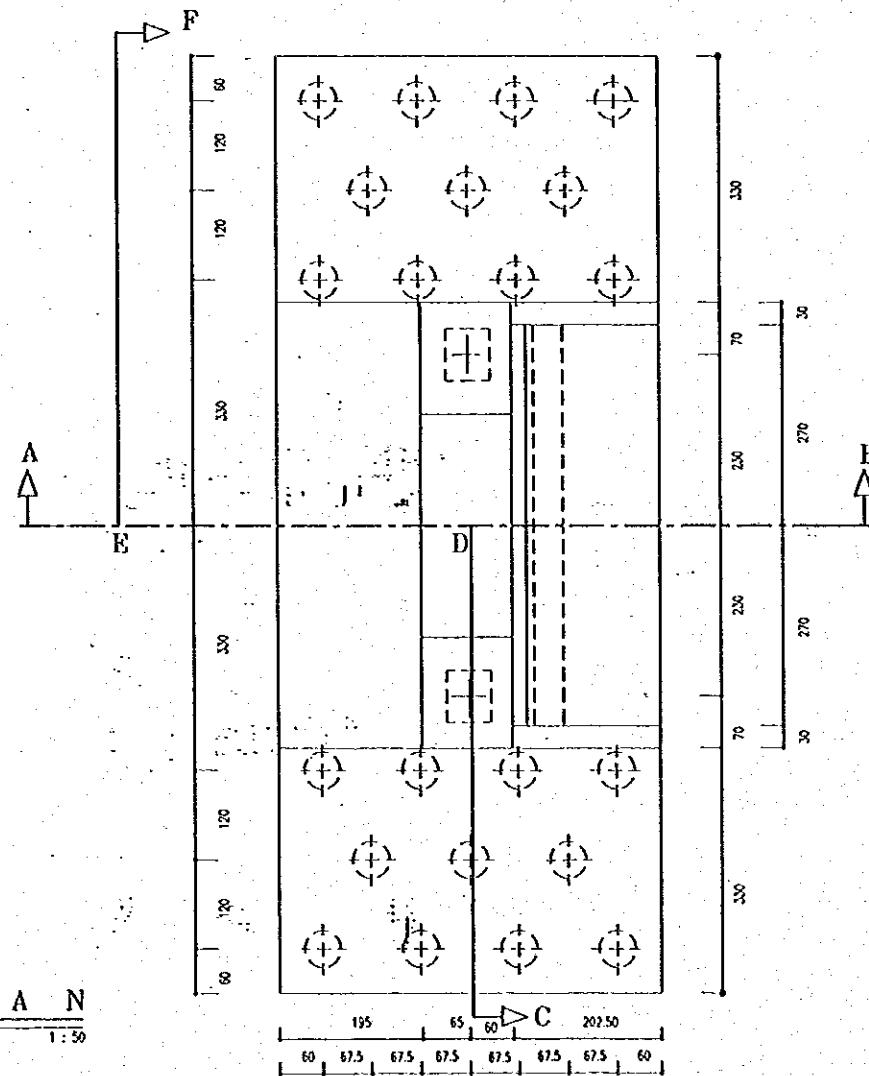
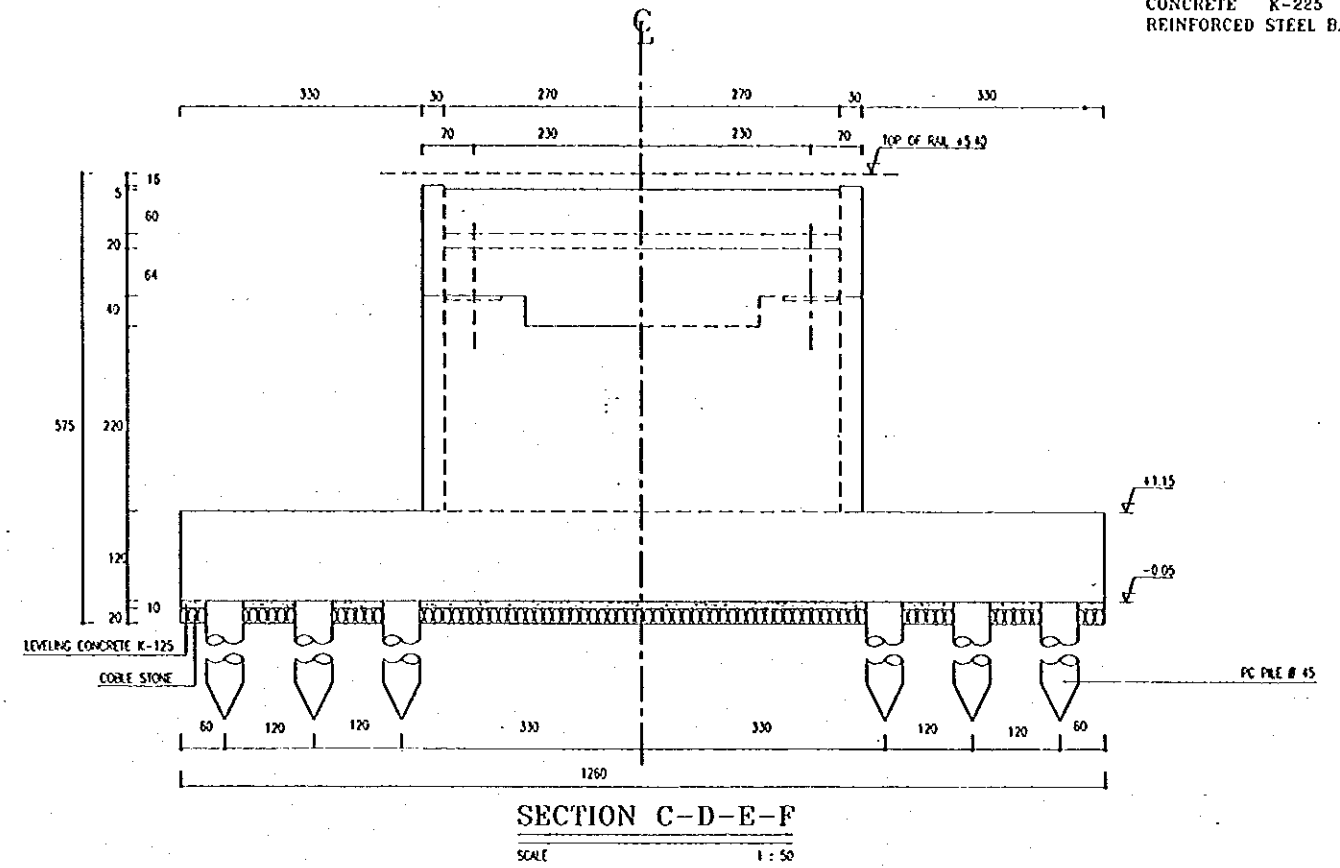
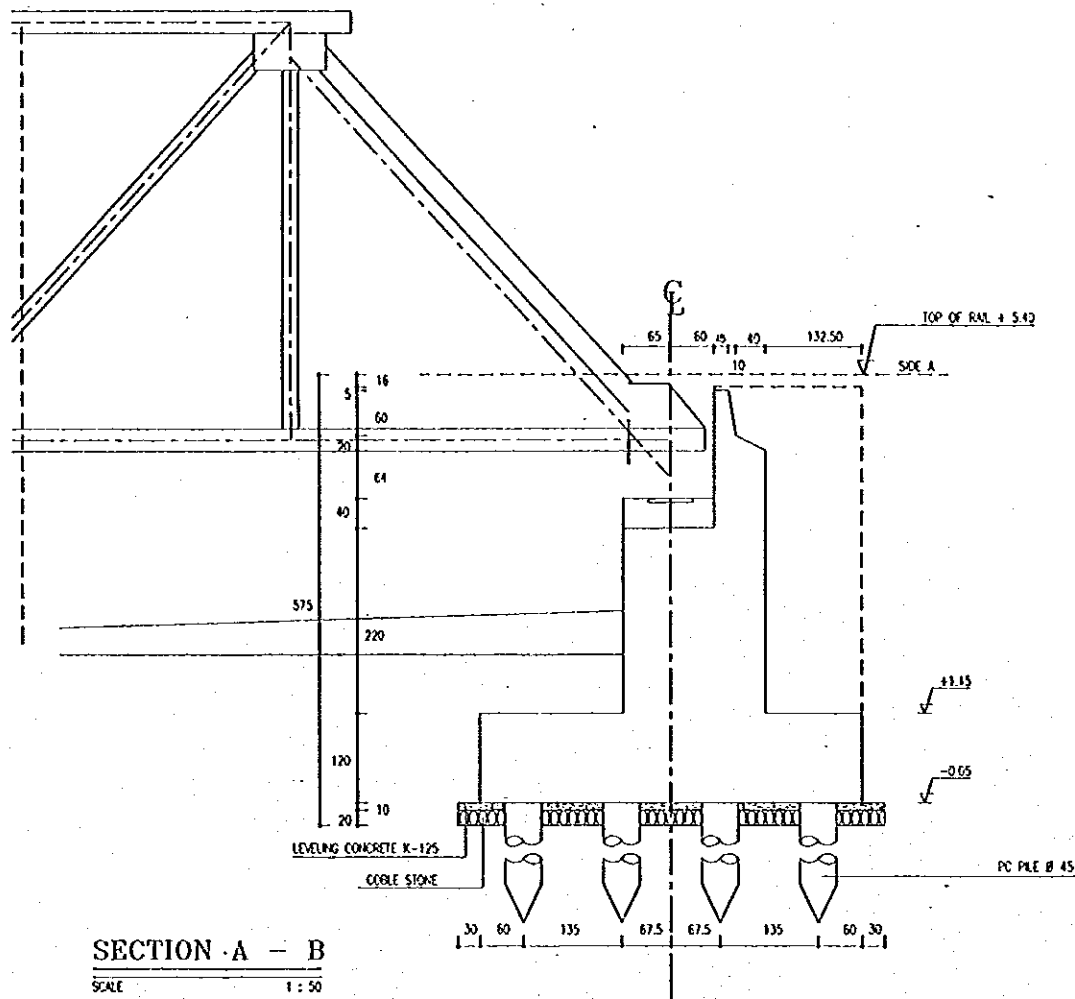


SECTION I-I
SCALE 1 : 25



THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
PROJECT NAME RAILWAY BRIDGE ACROSS WEST FLOODWAY REBAR ARRANGEMENT OF PIER CIREBON / SEMARANG SIDE (2P)		DISTRICT SEMARANG CITY
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	DESIGNED CHECKED	SHEET NO. 38 CONTRACT NO.
PERUSAHAAN UMUM KIRITA API (PENGUSAHAAN KIRITA API)		DIRECTOR OF TECHNICAL CHIEF OF PLANNING AND DESIGN CHIEF OF SECTION DESIGNED CHECKED
NO. DATE		REVISIONS ORIGINATED DESIGNED APPROVED

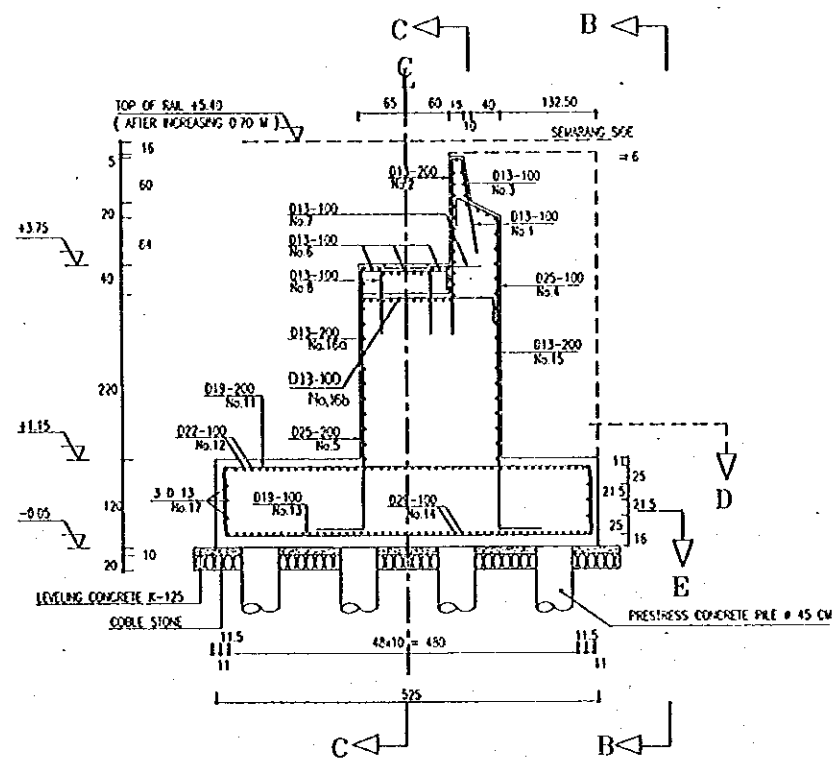
NOTE :
CONCRETE K-225
REINFORCED STEEL BAR U-39



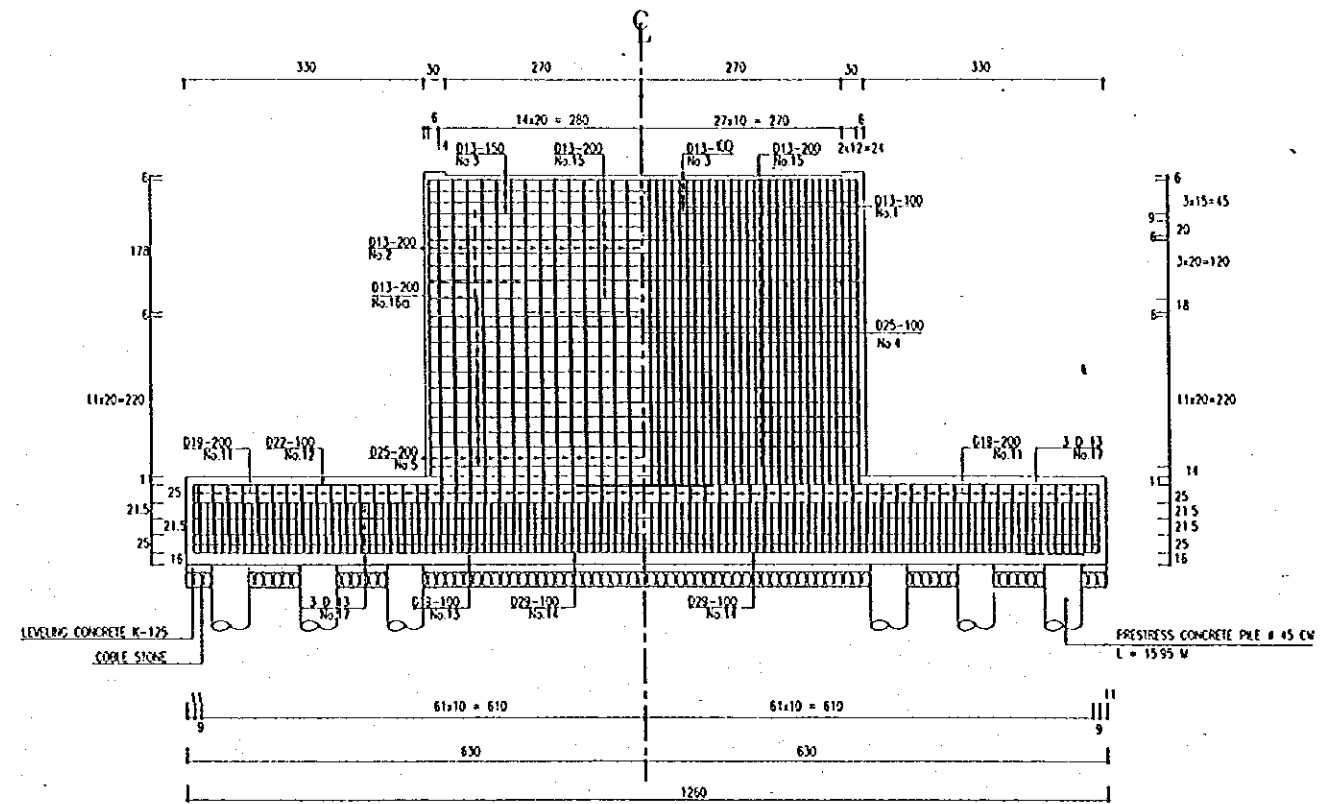
NOTE :
PILE LENGTH SHOWN ON DRAWING IS TENTATIVE

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
NATIONAL FLOOD CONTROL PROJECT CROCODING & WEST FLOODWAY / RAILWAY RIVER DEPARTMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY PLAN AND SECTION OF ABUTMENT SEMARANG SIDE		PROJECT NAME RAILWAY BRIDGE ACROSS WEST FLOODWAY DISTRICT SEMARANG CITY
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	CHECKED CHIEF OF SURVEILLANCE OF STRUCTURE AND BRIDGE CHIEF OF DESIGN AND BRIDGE SECTION OF THE	DRAWING NO. W-39-RA-S-4 SHEET NO. 31 DATE CONTRACT NO.
PERUSAHAAN TEKNIK BAKTI API (COMMERCIAL REGISTERED FIRM)		DESIGNED CHECKED
API of INTERNATIONAL CONSULTING AGENCY (A SUBSIDIARY OF LIA B. ASSOCIATION INC) PROJECT CONSULTING INTERNATIONAL AND PUBLIC INTERNATIONAL, INC		DESIGNED CHECKED

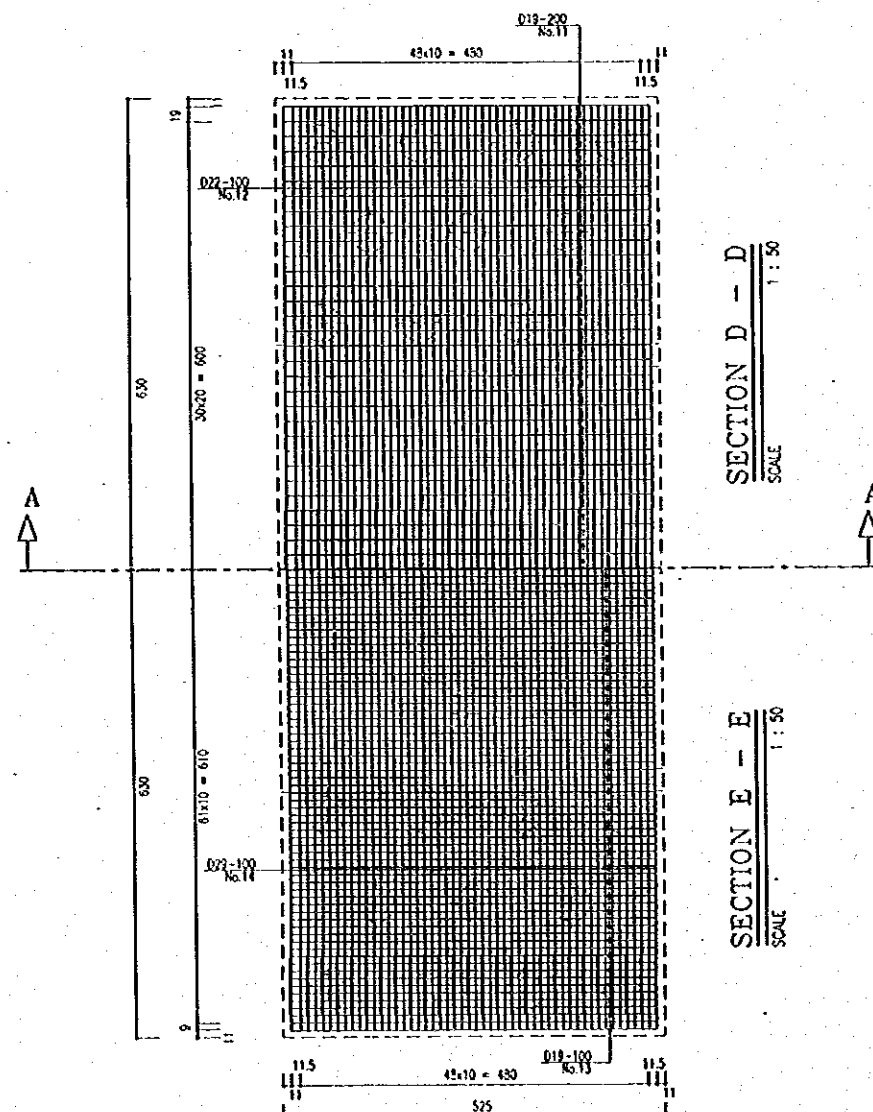


SECTION A - A
SCALE 1 : 50



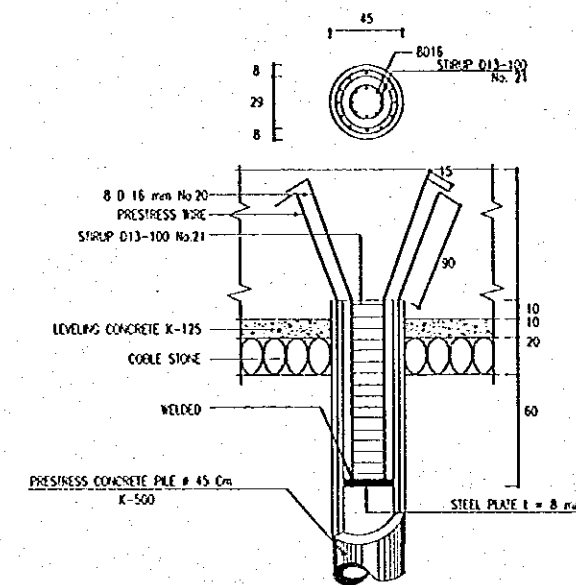
SECTION C - C
SCALE 1 : 50

SECTION B - B
SCALE 1 : 50

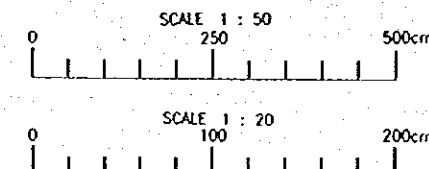


SECTION D - D
SCALE 1 : 50

SECTION E - E
SCALE 1 : 50



CONNECTION BETWEEN PILE CAP
AND PRESTRESS CONCRETE PILE Ø 45cm.
SCALE 1 : 20

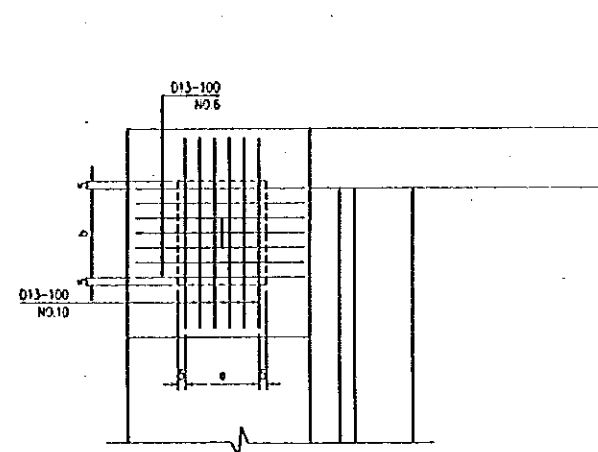


Notes

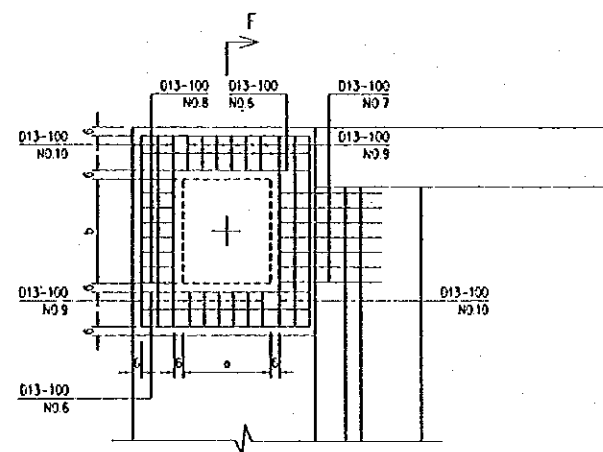
1. Unit in centimeter
2. Concrete quality for abutment K 225
3. Concrete quality for pile K 500
4. Steel quality U 39
5. Maximum agregat size 20 mm

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

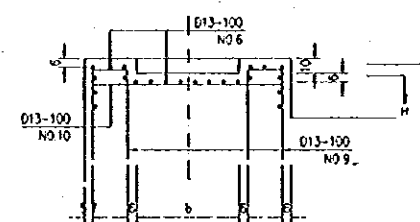
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
JAWA SELATAN FLOOD CONTROL PROJECT COMPONENT 1 WEST FLOODWAY / GARANG RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY REBAR ARRANGEMENT OF ABUTMENT SEMARANG SIDE (1/2)		PROJECT NAME SEMARANG CITY
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	DESIGNED CHECKED	DISTRICT SEMARANG CITY DRAWING NO. WOP3RR-2-3 SHEET NO. 31 DATE CONTRACT NO.



SECTION H-H
SCALE 1 : 25

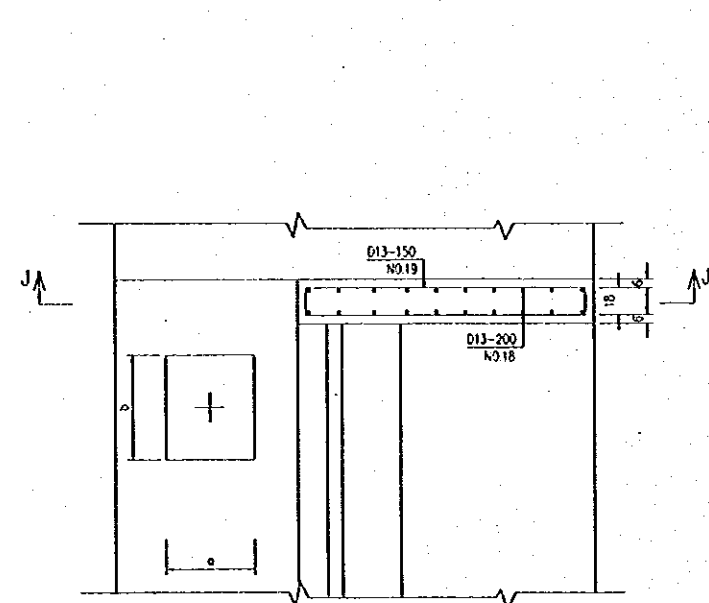


SECTION G-G
SCALE 1 : 25

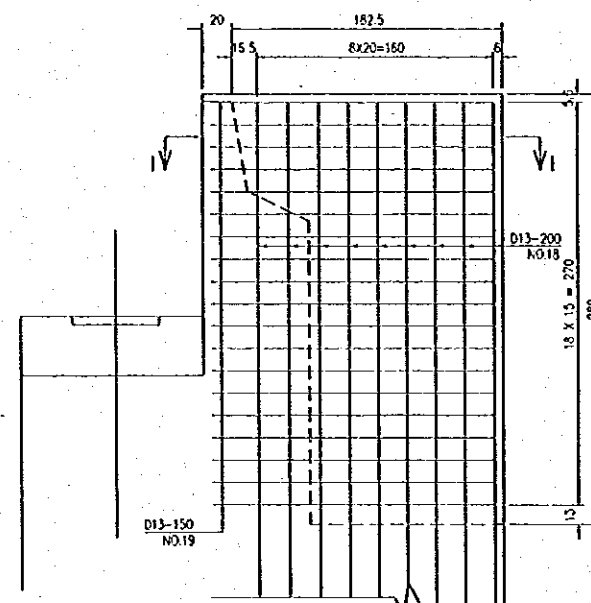


SECTION F-F
SCALE 1 : 25

REBAR ARRANGEMENT AROUND BEARING/SOE
SCALE 1 : 25



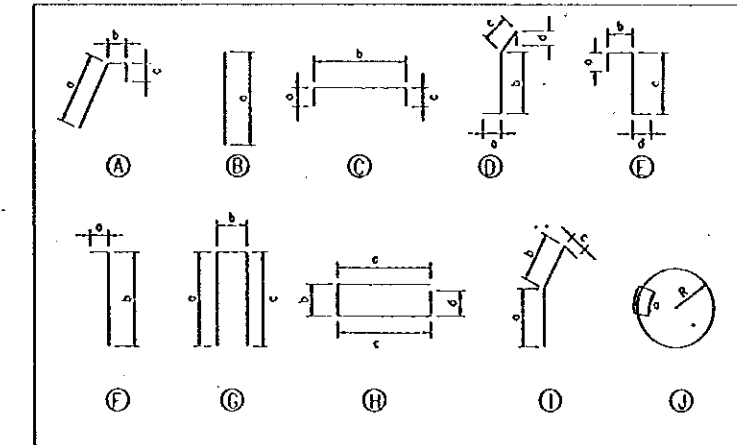
SECTION I-I
SCALE 1 : 25



SECTION J-J
SCALE 1 : 25

REBAR ARRANGEMENT ON WING WALL
SCALE 1 : 25

RE BAR BENDING LIST

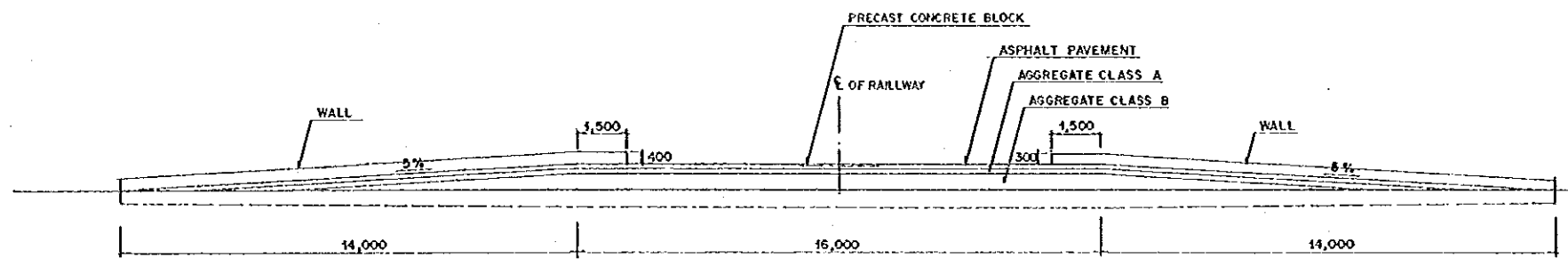


NO	TYPE	SIZE	a (cm)	b (cm)	c (cm)	d (cm)	LENGTH (cm)	NOS	UNIT WEIGHT Kg/m	UNIT WEIGHT (kg)
1	A	D13	112	8.6			120.6	54	1.040	57.73
2	B	D13	236				236	28	1.040	68.72
3	C	D13	10	587.6	10		607.6	20	1.040	126.38
4	D	D25	50	117.0	60	100	627	54	3.850	1303.53
5	E	D25	50	178.5	313	50	592	30	3.850	683.75
6	C	D13	52	128.6	52		232.6	28	1.040	67.73
7	F	D13	82	82			164	14	1.040	23.88
8	G	D13	92	53.6	92		237.6	14	1.040	34.59
9	G	D13	92	58.6	92		242.6	24	1.040	60.55
10	C	D13	52	128.6	52		232.6	26	1.040	62.90
11	C	D19	70	503	70		643	64	2.230	917.69
12a	F	D22	70	1130			1200	51	2.930	1823.76
12b	F	D22	70	230			300	51	2.930	455.94
13	C	D19	70	503	70		643	127	2.230	1821.04
14a	F	D29	70	113			1200	51	5.190	3176.28
14b	F	D29	70	230			300	51	5.190	794.07
15	C	D13	52	537.6	52		631.6	15	1.040	107.89
16	C	D13	180	587.6	180		947.6	11	1.040	108.41
17a	F	D13	52	1143			1200	6	1.040	74.88
17b	F	D13	164	510.7			674.7	6	1.040	42.10
18	F	D13	15	386.3			152	40	1.040	63.23
19	H	D13	190	18.6	190	15	413.6	56	1.040	240.88
P1	I	D16	100	90	15		205	176	1.580	570.06
P2	J	D13	85				85	217	1.040	218.35
TOTAL										12914.36

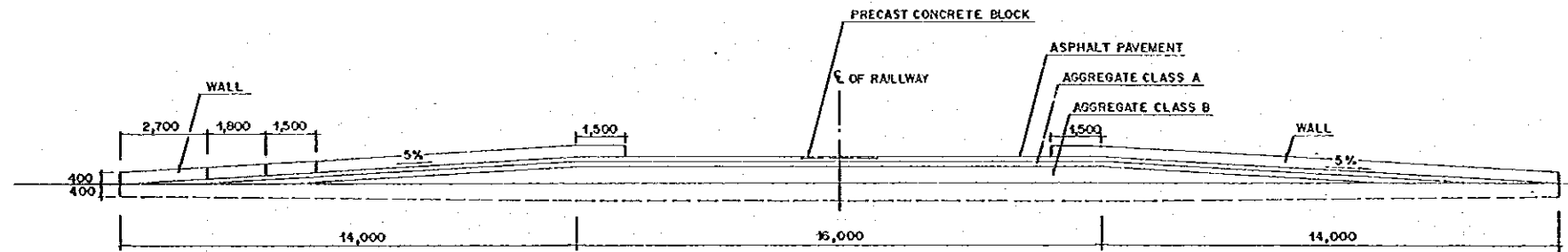
SCALE 1 : 25
0 125 250cm

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

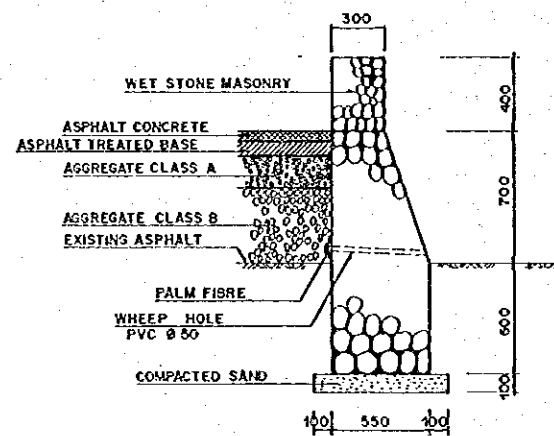
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT AUTONOMOUS REGION CENTRAL JAWA COMPONEN 2 VEST FLOODWAY / GABUNG RIVER DEPARTMENT RAILWAY BRIDGE ACROSS VEST FLOODWAY REBAR ARRANGEMENT OF ABUTMENT SEMARANG SIDE (D1)		PROVINCE CENTRAL JAWA PROJECT NAME RAILWAY BRIDGE ACROSS VEST FLOODWAY DISTRICT SEMARANG CITY DRAWING NO. WG-33-RR-R-4 SHEET NO. 33
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	CHECKED PERUSAHAAN UGM REBAR API (General Public Engineering)	DATE CONTRACT NO.



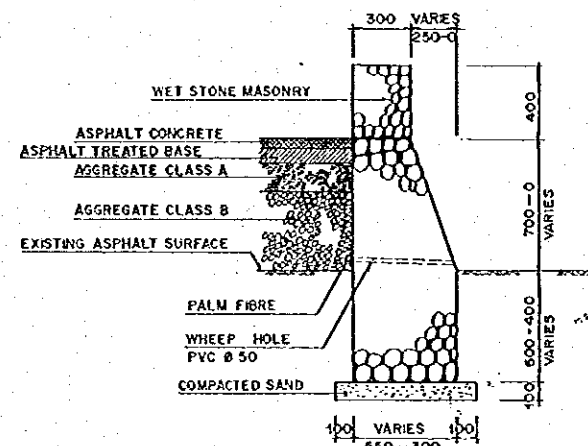
SECTION I-I
SCALE A



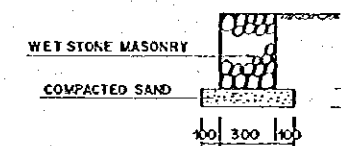
SECTION II-II
SCALE A



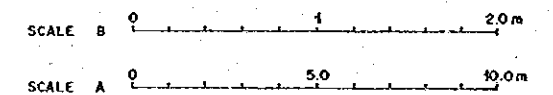
SECTION A-A
SCALE B



SECTION B-B
SCALE B

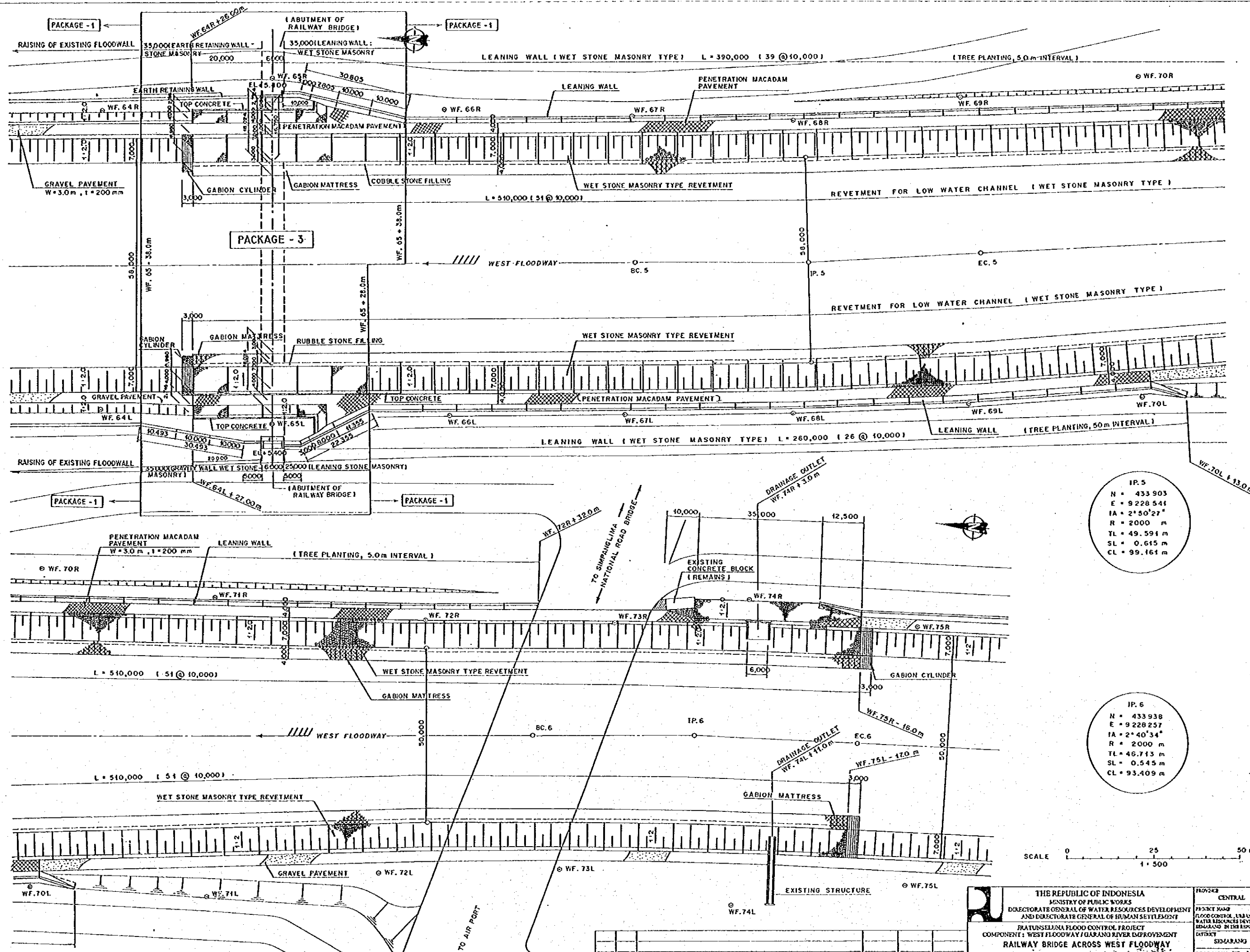


SECTION C-C
SCALE B



NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
PROJECT NAME RAILWAY BRIDGE ACROSS WEST FLOODWAY DETAILS OF ROAD AND SIDE WALL		PROJECT NO. 100-PS-RR-SL-5
DRAWING NO. 100-PS-RR-SL-5		SHEET NO. 35
DATE 1984		CONTRACT NO. 100-PS-RR-SL-5
DESIGNED CHECKED APPROVED PROJECT MANAGER		SIGNATURE DATE



IP. 5
 N = 433 903
 E = 9 228 541
 IA = 2° 50' 27"
 R = 2000 m
 TL = 49.591 m
 SL = 0.615 m
 CL = 99.161 m

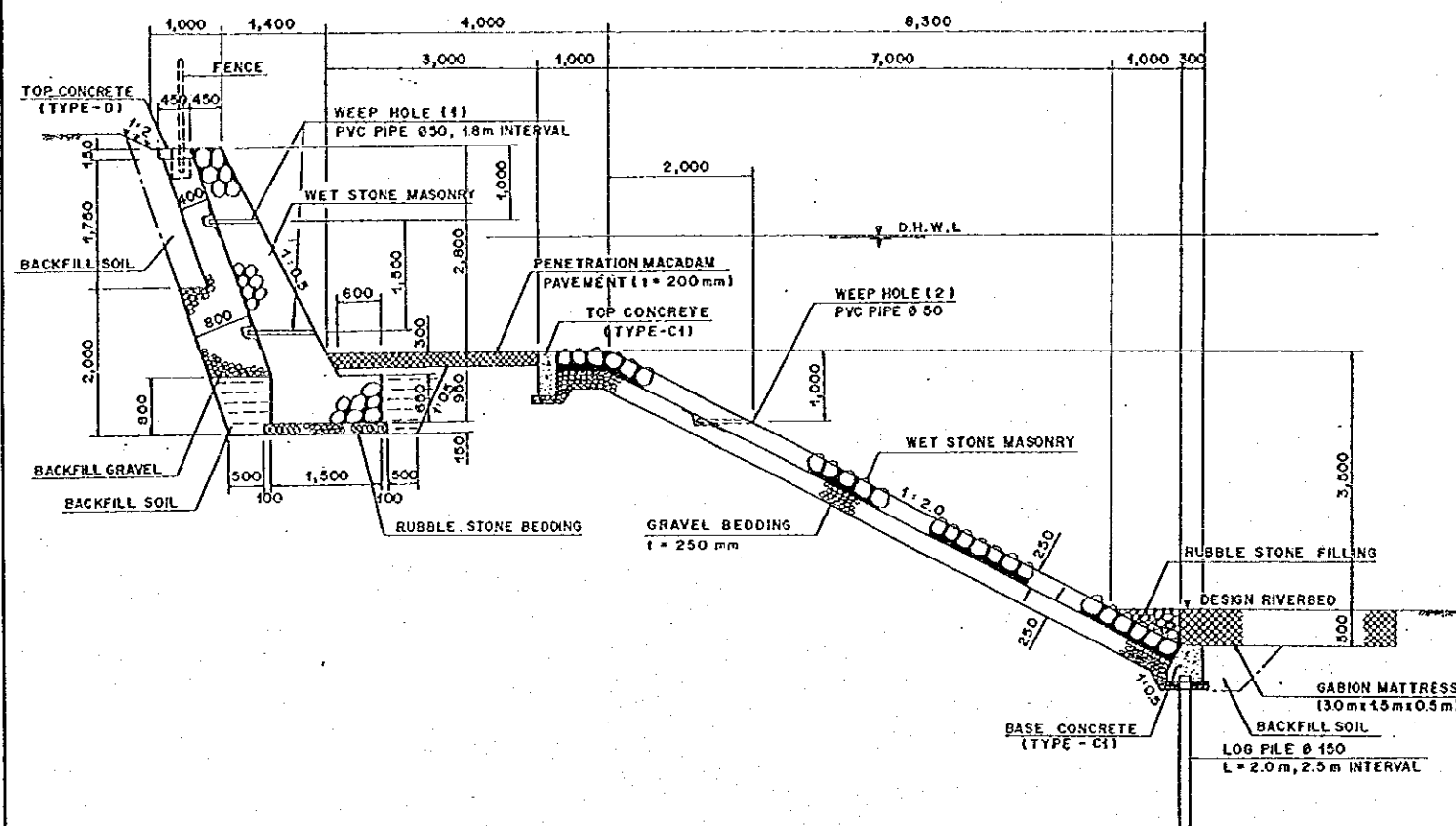
IP. 6
 N = 433 938
 E = 9 228 257
 IA = 2° 40' 34"
 R = 2000 m
 TL = 46.713 m
 SL = 0.545 m
 CL = 93.409 m

SCALE 0 25 50 m
 1 : 500

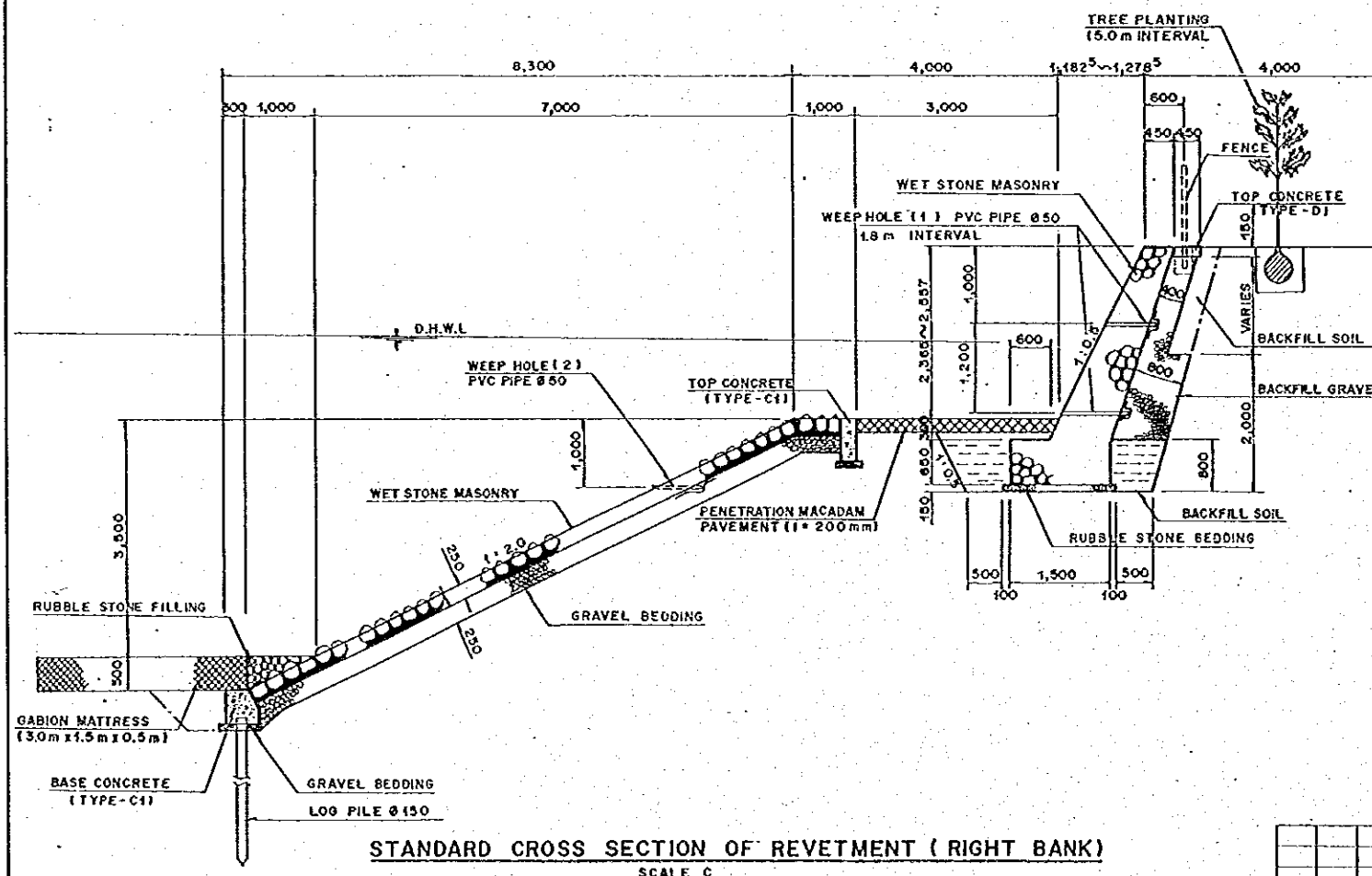
LAYOUT PLAN OF RIVERBANK PROTECTION
 SCALE 1 : 500

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT JATUNGLINGA FLOOD CONTROL PROJECT COMPONENT 1 WEST FLOODWAY / GARANO RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY PLAN OF REVETMENT		PROJECT NO. 1 PROJECT NAME FLOOD CONTROL, LAND DRAINAGE AND WATER RESOURCES DEVELOPMENT IN JATUNGLINGA IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. WG - P3 - RR - P1 - II SHEET NO. 36 DATE CONTRACT NO.
JAPAN INTERNATIONAL COOPERATION AGENCY CH. ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. PACIFIC INTERNATIONAL INC.	DESIGNED CHECKED DATE OF PLANNING AND DESIGN PROJECT MANAGER	APPROVED PROJECT MANAGER

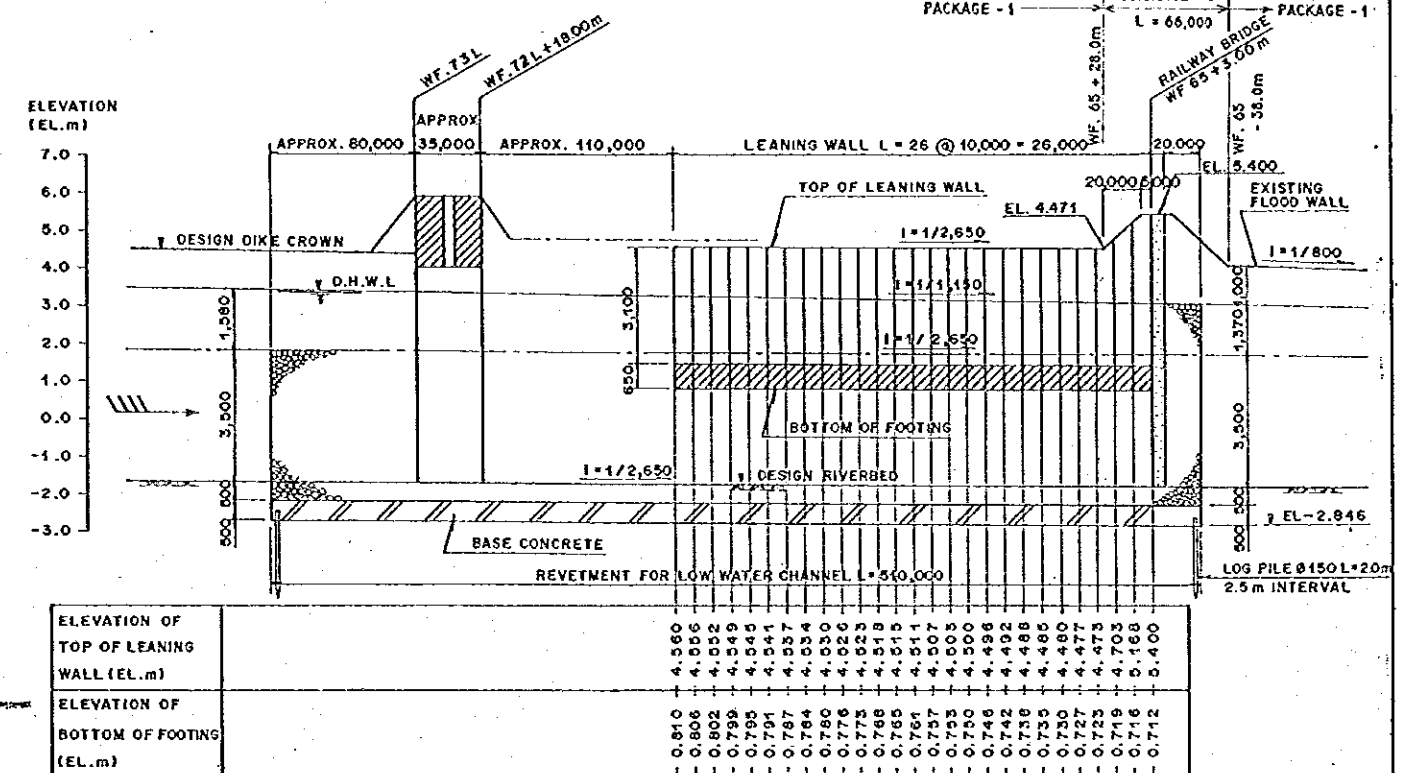
NO.	DATE	REVISIONS	GRADUATED	DESIGNED	APPROVED



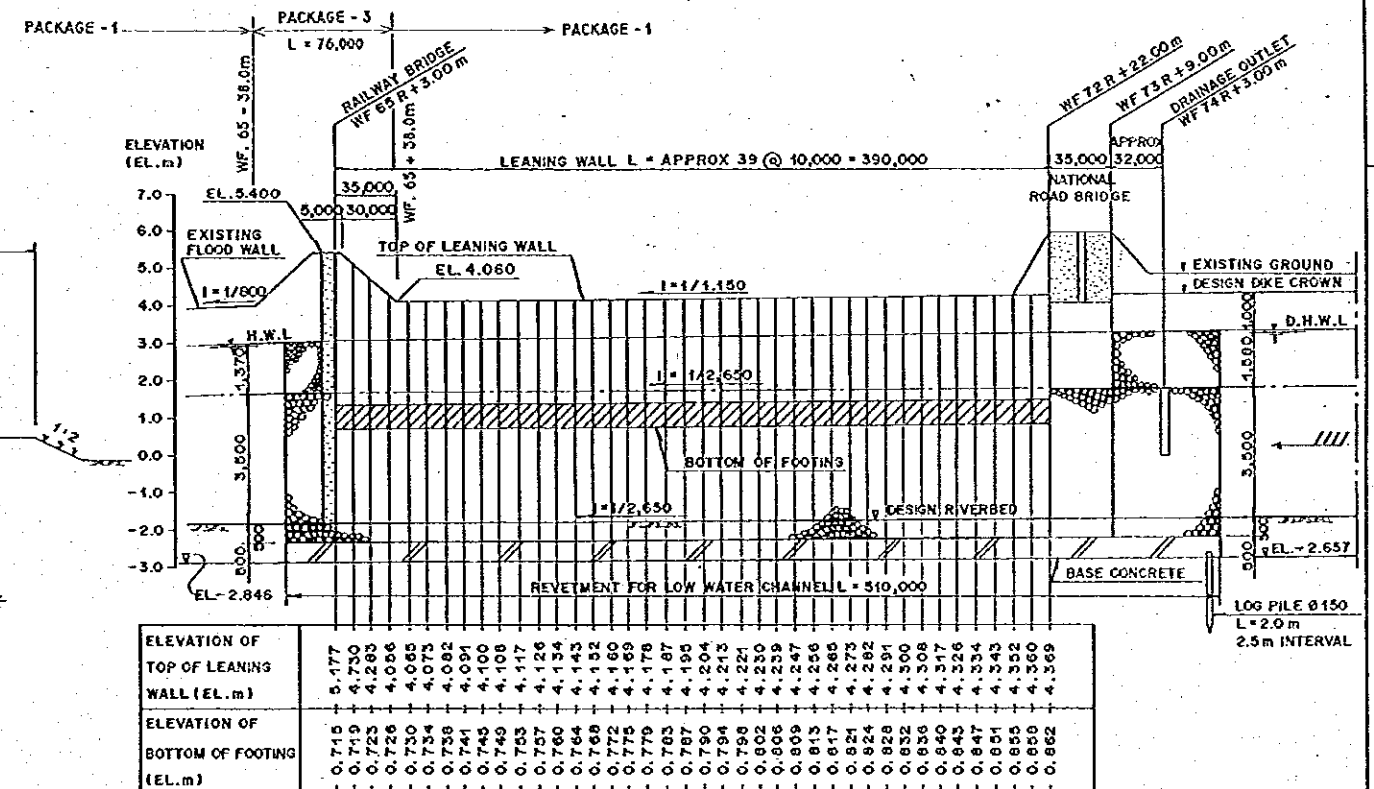
STANDARD CROSS SECTION OF REVETMENT (LEFT BANK)
SCALE C



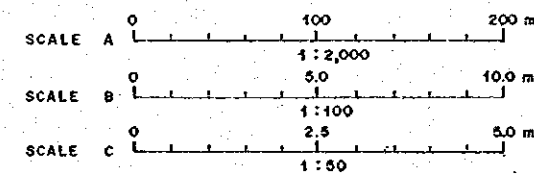
STANDARD CROSS SECTION OF REVETMENT (RIGHT BANK)
SCALE C



PROFILE OF REVETMENT (LEFT BANK)
SCALE H=1:2,000, V=1:100

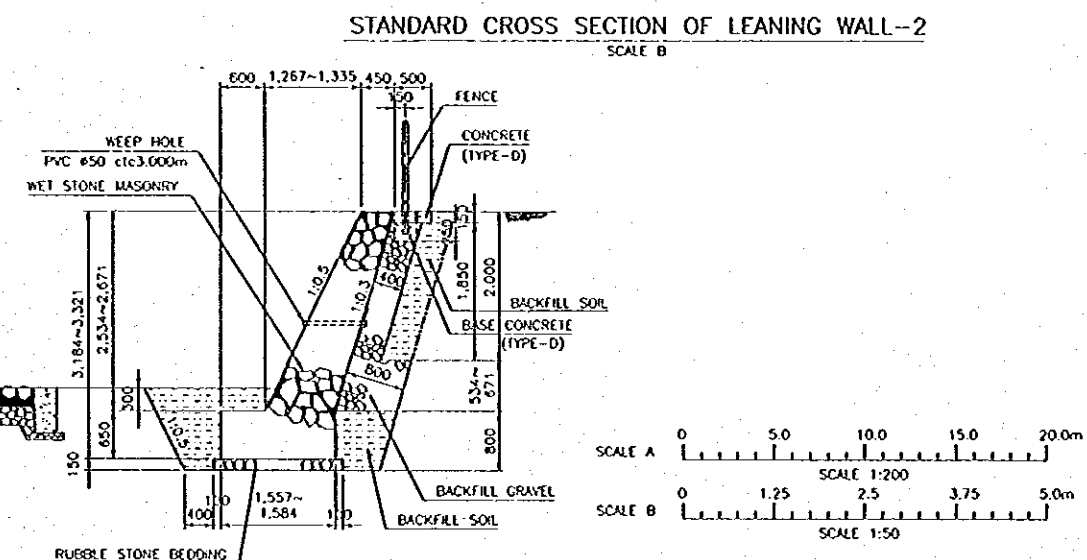
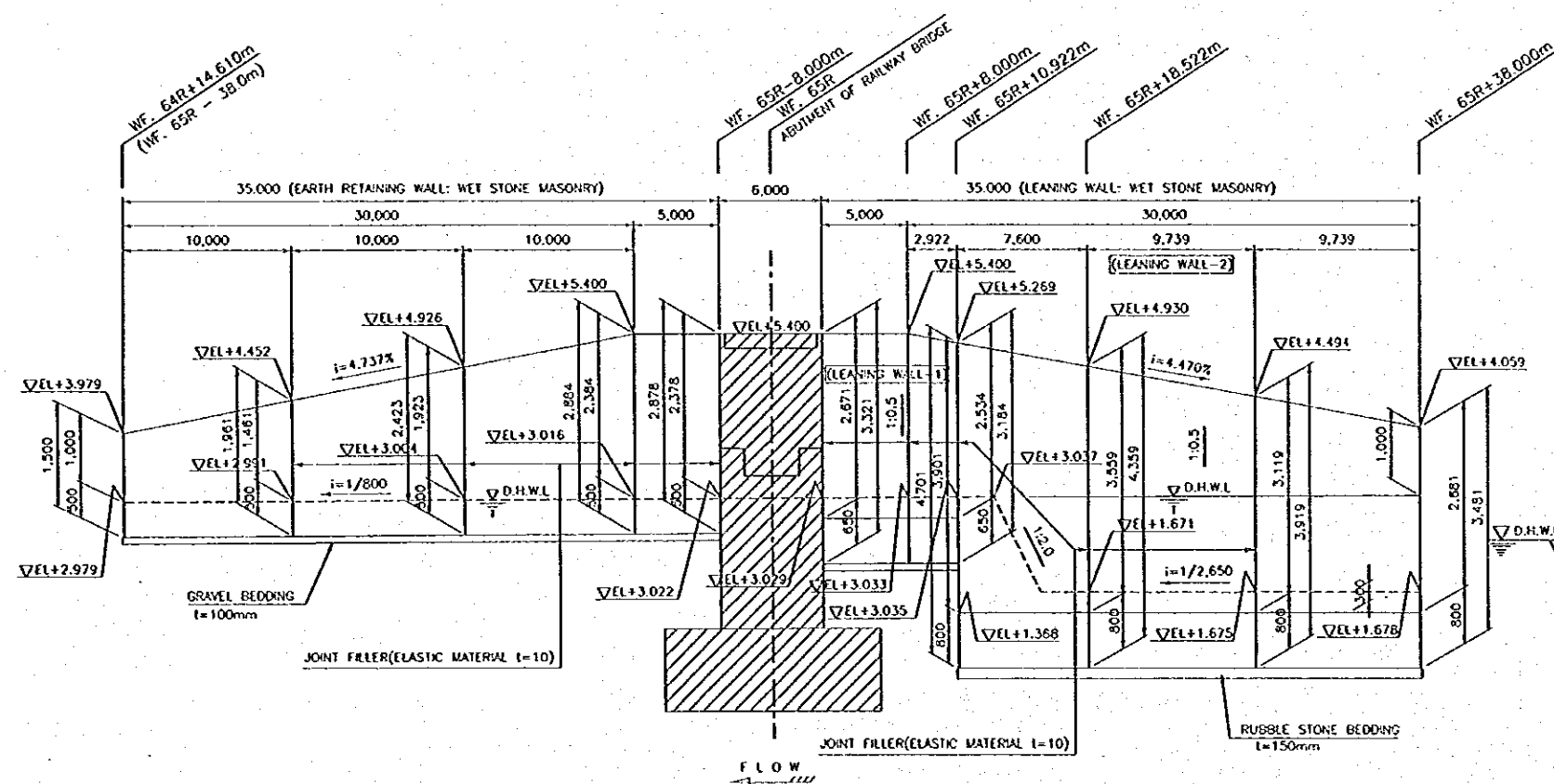
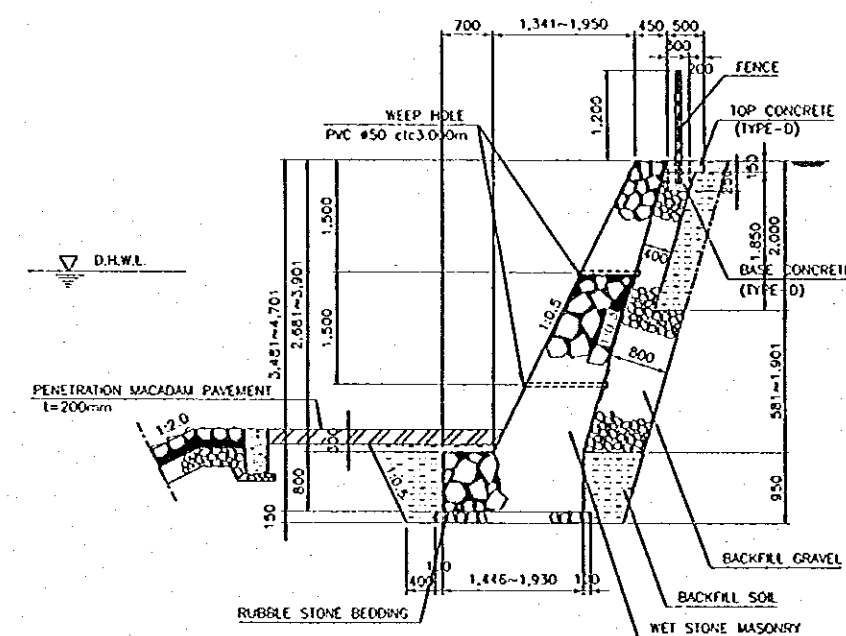
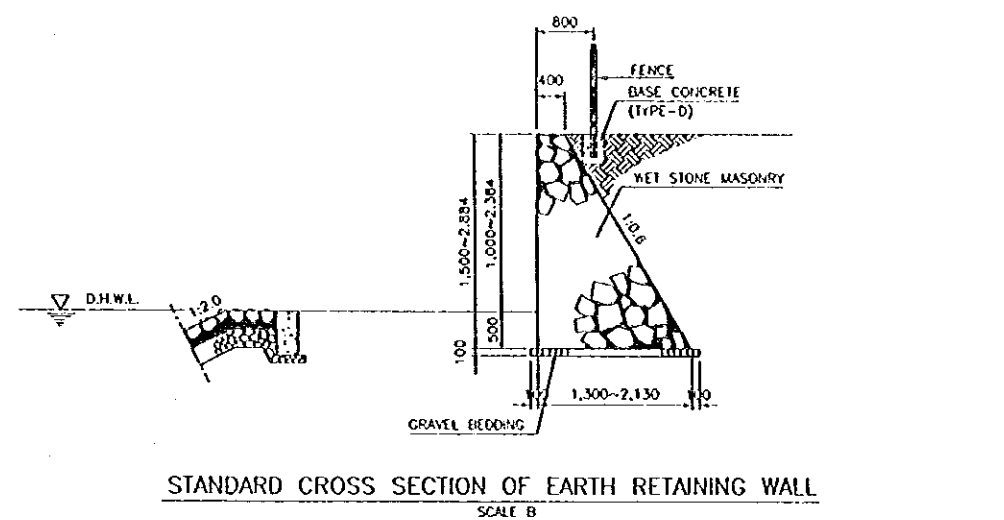
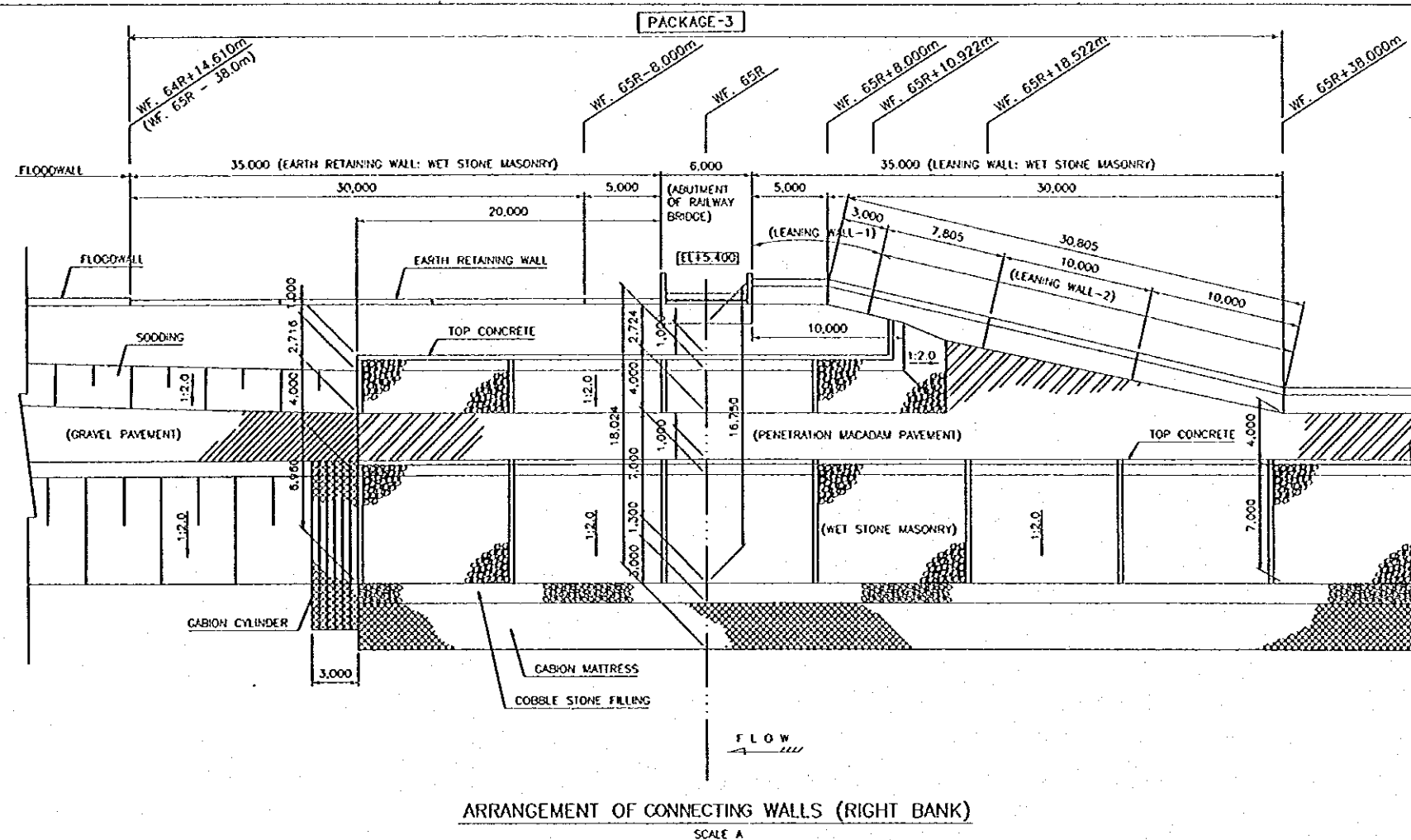



PROFILE OF REVETMENT (RIGHT BANK)
SCALE H=1:2,000, V=1:100

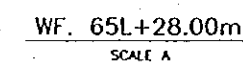
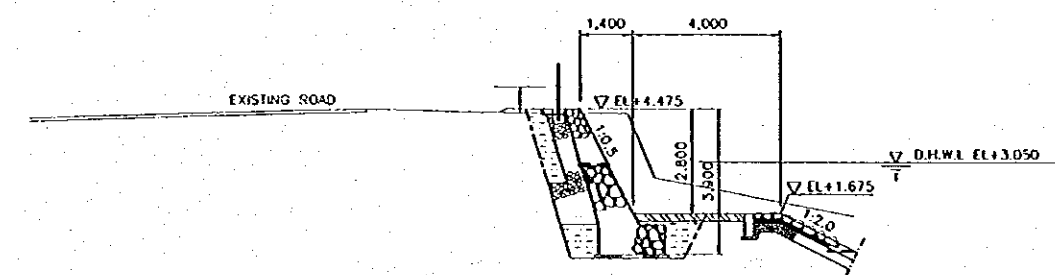
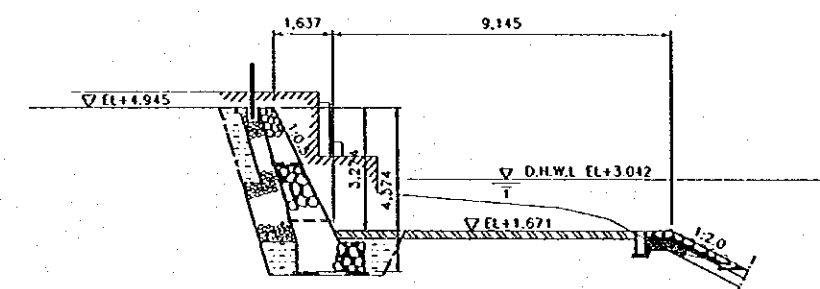
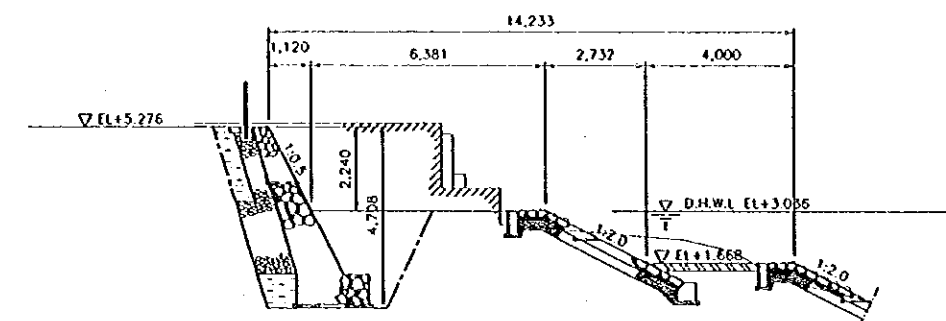


THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
COMPONENT : WEST FLOODWAY / OARANG RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY		LOCATION SEMARANG CITY
STANDARD CROSS SECTION AND PROFILE OF REVETMENT		DRAWING NO. WS - PS - RR - 51 - 6 SHEET NO. 37
JAPAN INTERNATIONAL COOPERATION AGENCY JICA ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PANOS INTERNATIONAL INC.	DESIGNED CHECKED DATE	CONTRACT NO.
NO. DATE REVISIONS	ORIGINATED DESIGNED APPROVED	PROJECT MANAGER

						JRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY CONNECTING WALLS TO ABUTMENT OF RAILWAY BRIDGE (1/2)				SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. WG - P3 - RR - 01 - 7 SHEET NO. 38			
						LAYAN INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO. LTD. 8 ARABIC STREET WEST PACIFIC CHINA LAO'S INTERNATIONAL AND PAKCO INTERNATIONAL INC.				DESIGNED CHECKED		DATE CONTRACT NO.	
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED	CHIEF OF PLANNING AND DESIGN PROJECT MANAGER						

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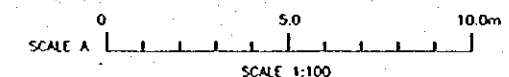
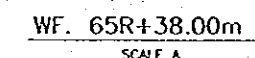
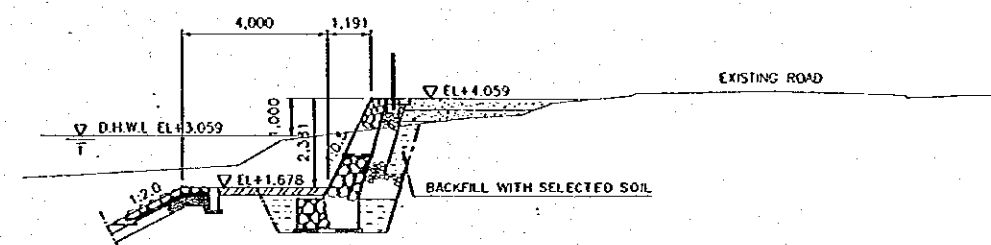
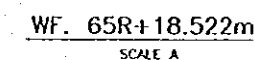
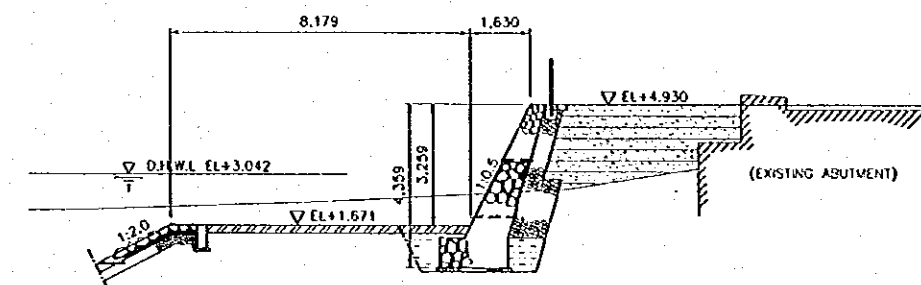
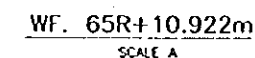
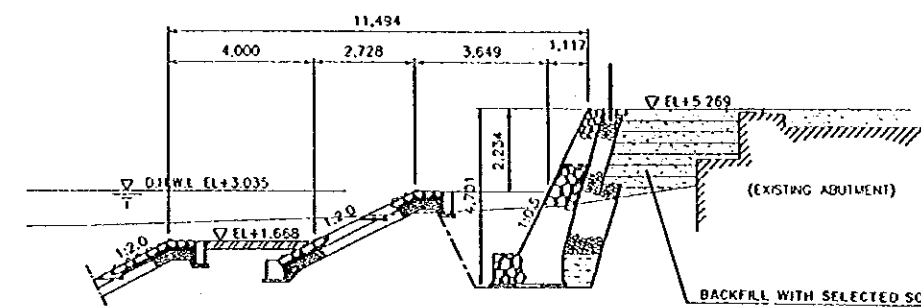
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	<p>IRATUNSHUNA FLOOD CONTROL PROJECT</p> <p>COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT</p> <p>RAILWAY BRIDGE ACROSS WEST FLOODWAY</p> <p>CONNECTING WALLS TO ABUTMENT</p> <p>OF RAILWAY BRIDGE (2/2):</p>		<p>PROJECT NAME</p> <p>FLOOD CONTROL, URBAN DRAINAGE AND</p> <p>WATER RESOURCES DEVELOPMENT</p> <p>SEMARANG IN THE PROVINCE OF CENTRAL</p> <p>JAVA</p> <p>DISTRICT</p> <p>SEMARANG CITY</p> <p>DRAWING NO. WS - PS - ER - 81 - II</p> <p>SHEET NO. 39</p>	
<p>JAVAN INTERNATIONAL COOPERATION AGENCY</p> <p>CIH. INDONESIA CO. LTD. IN ASSOCIATION WITH</p> <p>PACIFIC CONSULTANTS INTERNATIONAL INC. AND</p> <p>PANCO INTERNATIONAL INC.</p>		<p>DESIGNED</p> <p><i>[Signature]</i></p>	<p>DATE</p> <p>CONTRACT NO.</p>	
<p>APPROVED</p>	<p>CHIEF OF PLANNING AND DESIGN</p> <p>PROJECT MANAGER</p>	<p>CHECKED</p> <p><i>[Signature]</i></p>		



1. THE EXISTING GROUND SURFACE LINES SHOWN ON THE ABOVE DRAWINGS ARE TENTATIVE EXCEPT THE SECTION OF WF.65L. THE CONTRACTOR SHALL PREPARE THE CONSTRUCTION DRAWINGS BASED ON THE SURVEY RESULTS.



[illegible]

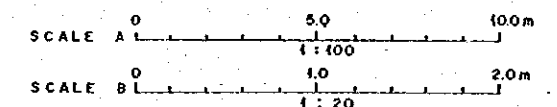
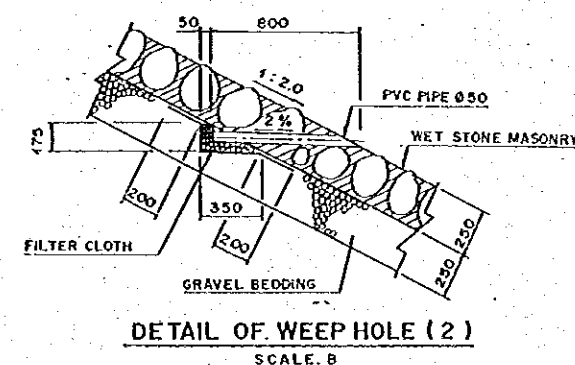
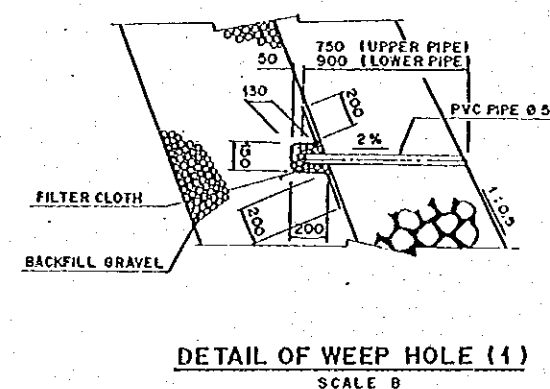
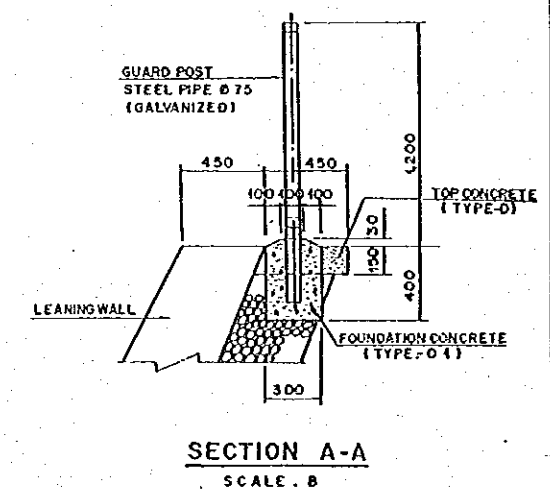
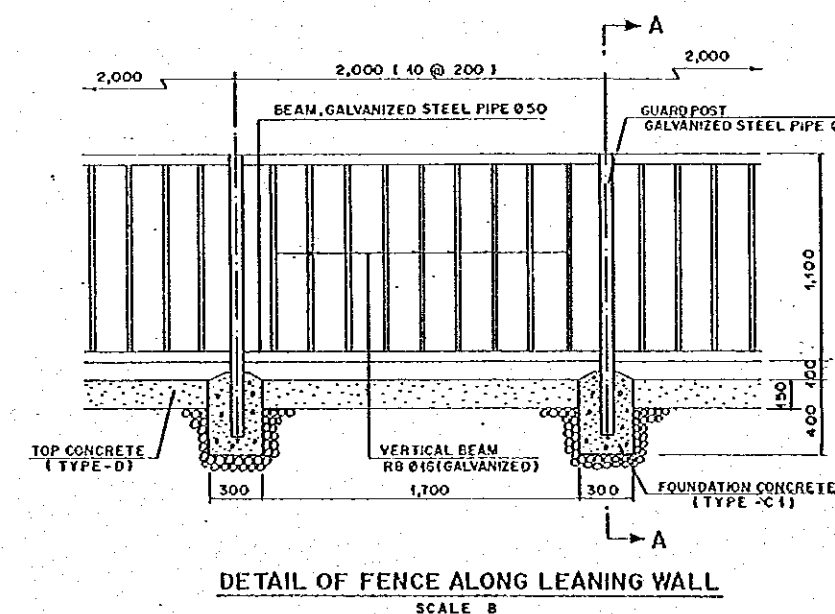
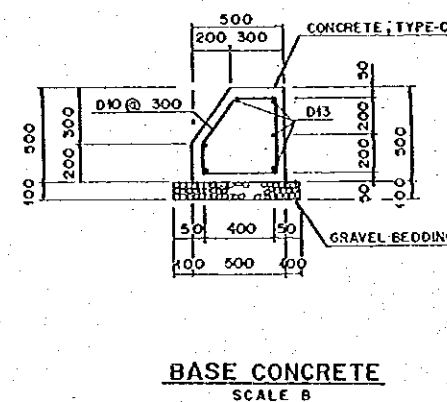
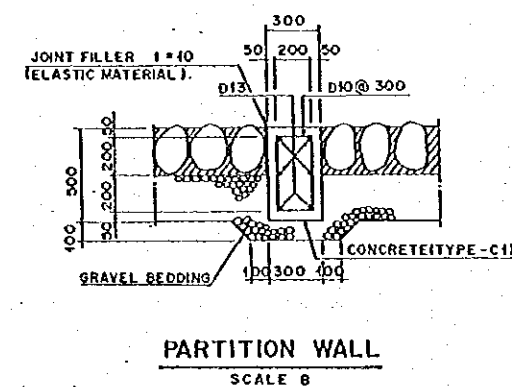
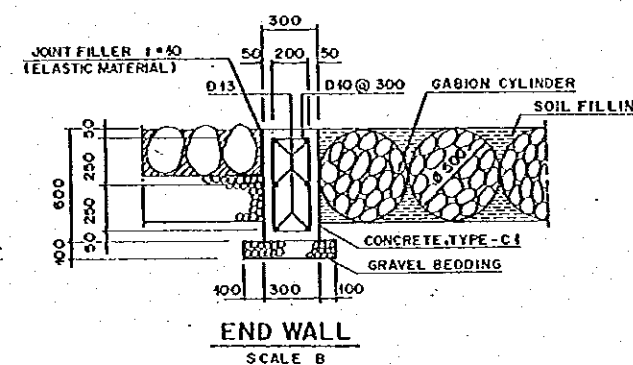
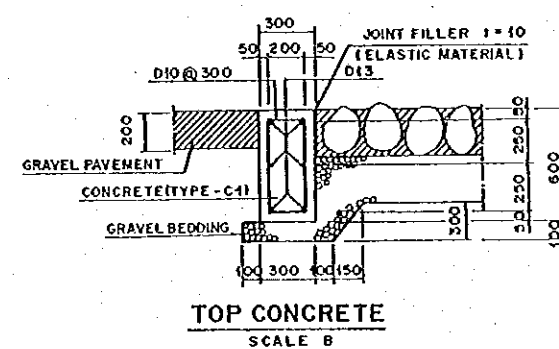
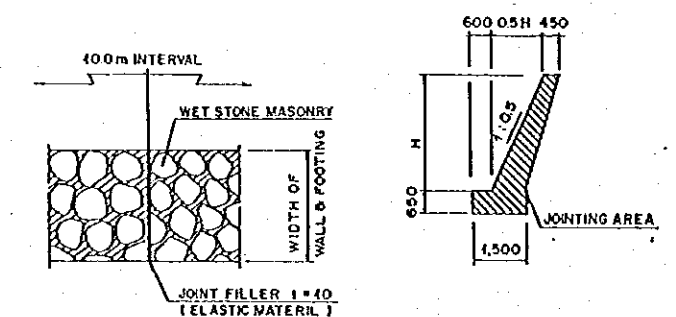
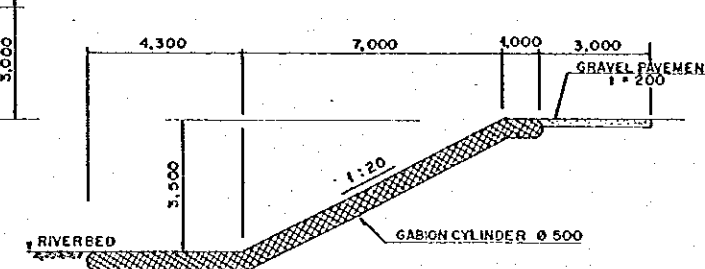
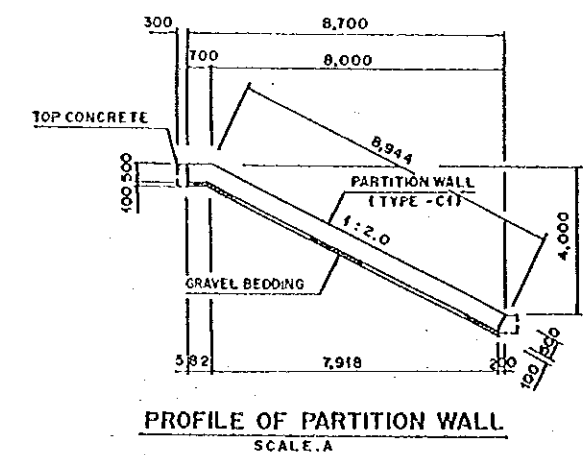
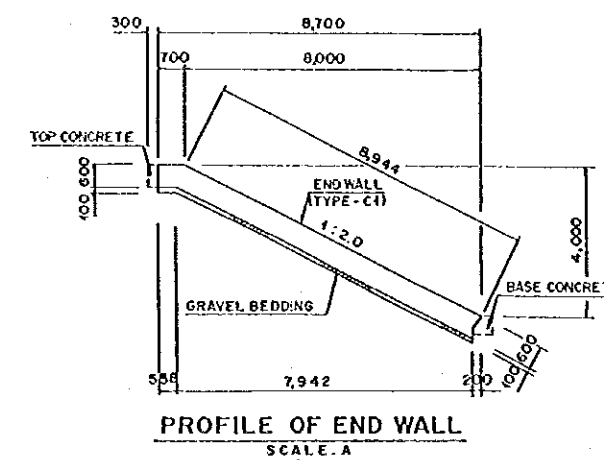
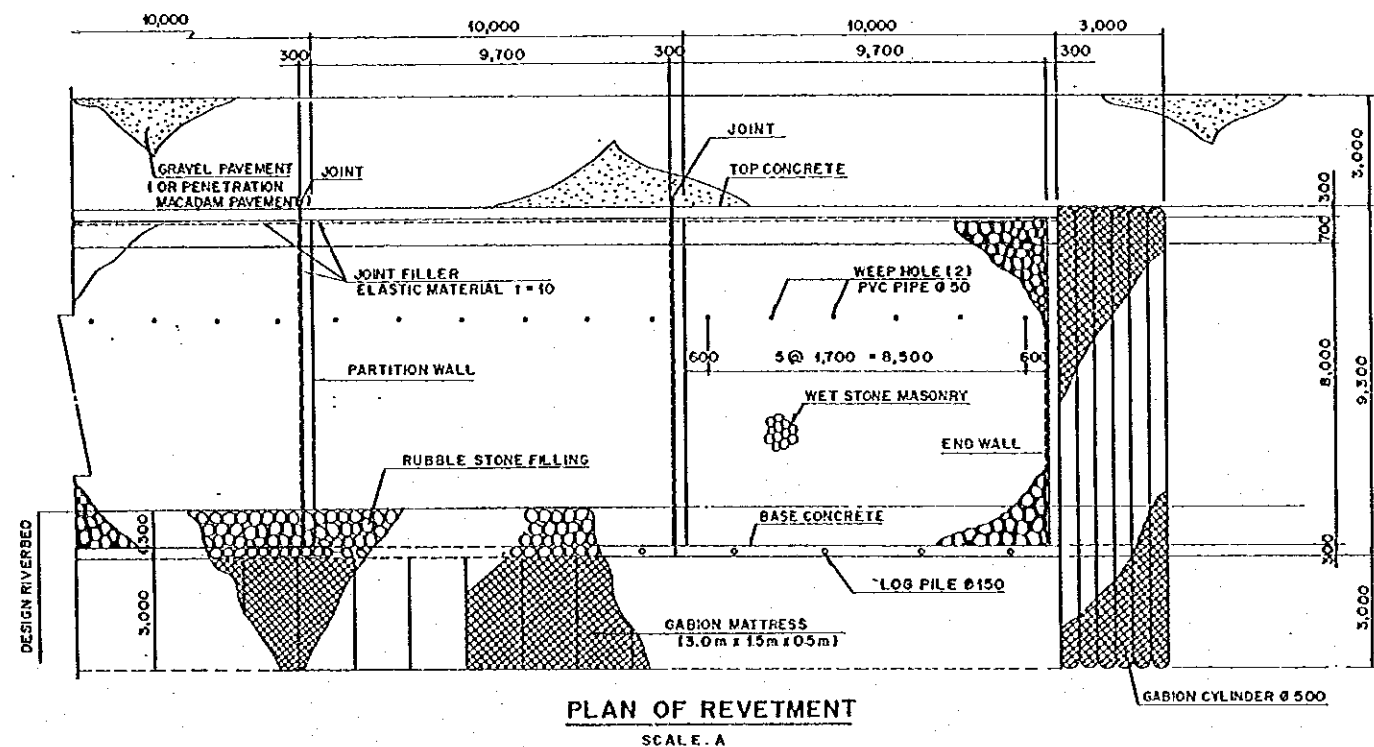
<p>THE REPUBLIC OF INDONESIA</p> <p>MINISTRY OF PUBLIC WORKS</p> <p>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p> <p>JATUNSELUMA FLOOD CONTROL PROJECT</p> <p>COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT</p> <p>RAILWAY BRIDGE ACROSS WEST FLOODWAY</p> <p>RAILWAY ACROSS SECTION OF CONNECTING WALL (1/2)</p> <p>AN INTERNATIONAL COOPERATION AGENCY FOR TECHNICAL AND ECONOMIC ASSISTANCE FACILITY CONSULTANTS INTERNATIONAL AND FACILCO INTERNATIONAL INC</p> <p>OFFICE OF PLANNING AND DESIGN</p> <p>PROJECT MANAGER</p>		<p>PROVINCE</p> <p>CENTRAL JAVA</p> <p>PROJECT NAME</p> <p>FLOOD CONTROL, URBAN DRAINAGE AND RURAL AGRICULTURE DEVELOPMENT IN KARANGANYU, IN THE REPUBLIC OF INDONESIA</p> <p>DISTRICT</p> <p>SEMARANG CITY</p> <p>DRAWING NO. WFS - PS - RR - C-4</p> <p>SHEET NO. 40</p> <p>DATE</p> <p>CONTRACT NO.</p>
<p>APPROVED</p>	<p>DESIGNED</p> <p>CHECKED</p>	<p><i>[Signature]</i></p>



NOTE :

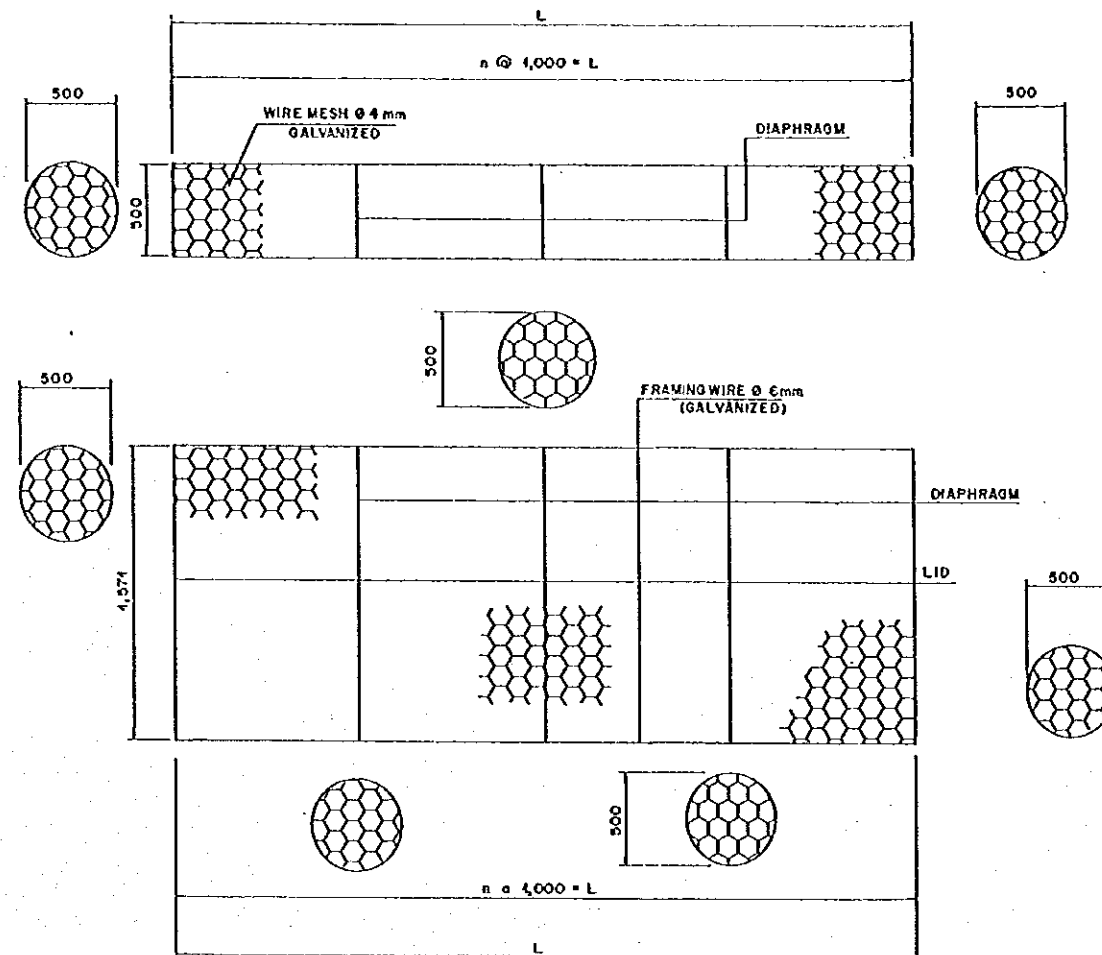
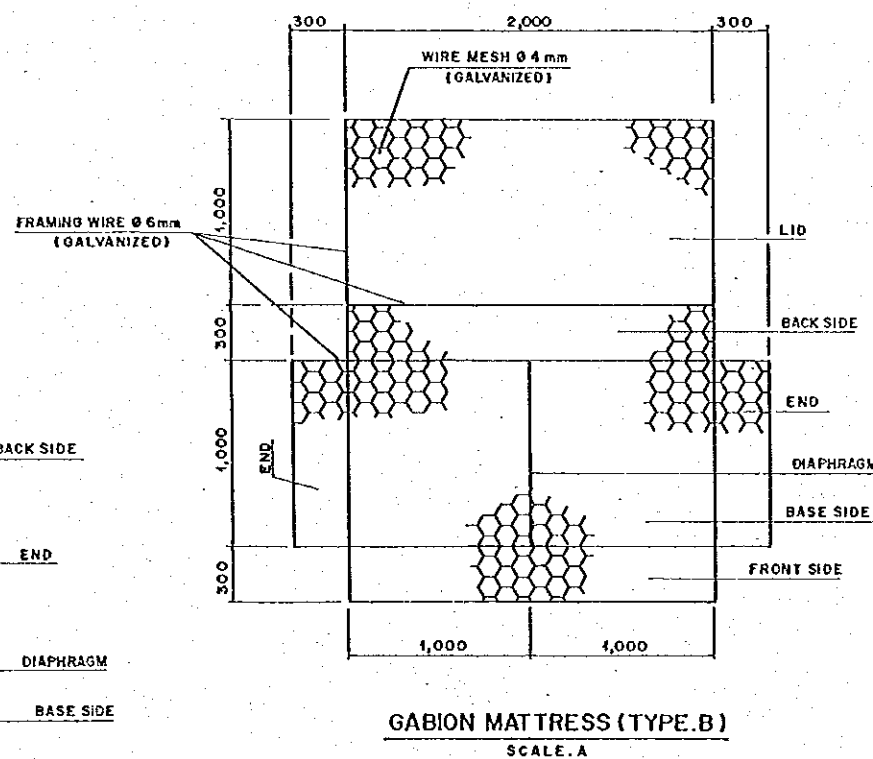
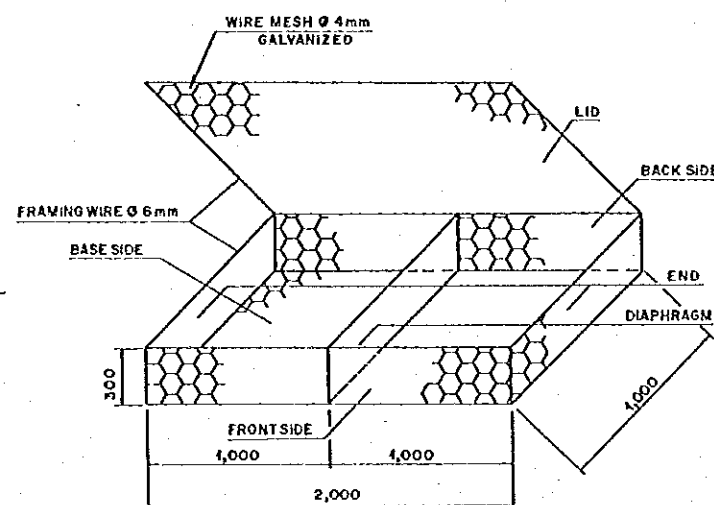
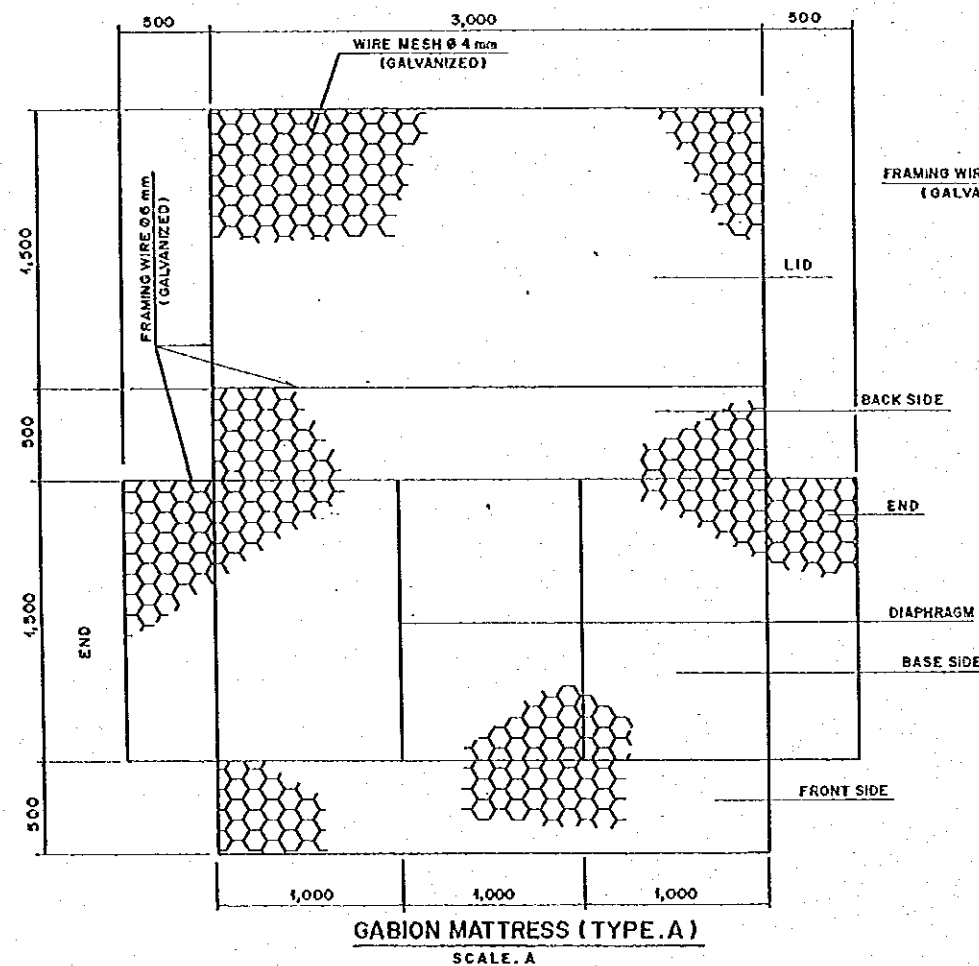
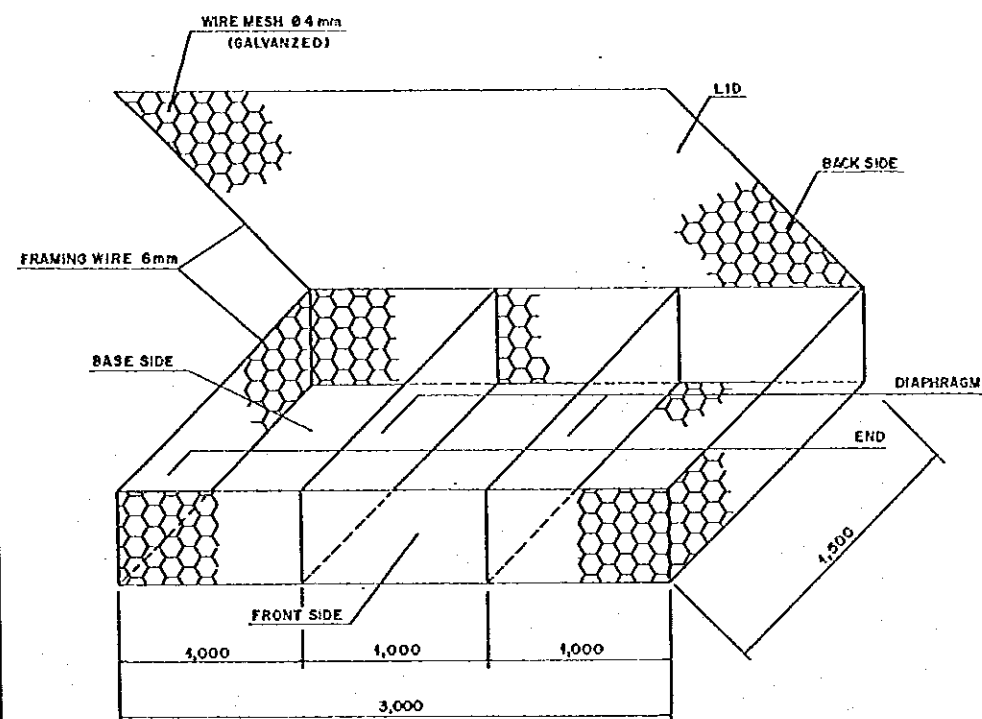
I. THE EXISTING GROUND SURFACE LINES SHOWN ON THE ABOVE DRAWINGS ARE TENTATIVE EXCEPT THE SECTION OF WF.65R. THE CONTRACTOR SHALL PREPARE THE CONSTRUCTION DRAWINGS BASED ON THE SURVEY RESULTS.

						IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY RAILWAY ACROSS SECTION OF CONNECTING WALL (2/2)		SEMARANG IN THE REPUBLIC OF INDONESIA CONTRACT SEMARANG CITY DRAWING NO. WG - P3 - RR - Cc - B5 SHEET NO. 41			
						BAKO INTERNATIONAL COORDINATION AGENCY CITI ENGINEERING CO., LTD. IN UNION WITH PACIFIC CONSULTANTS INTERNATIONAL AND BAKO INTERNATIONAL INC.		DESIGNED CHECKED		DATE	CONTRACT NO.
						CITY OF PLANNING AND DESIGN PROJECT MANAGER					
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED					

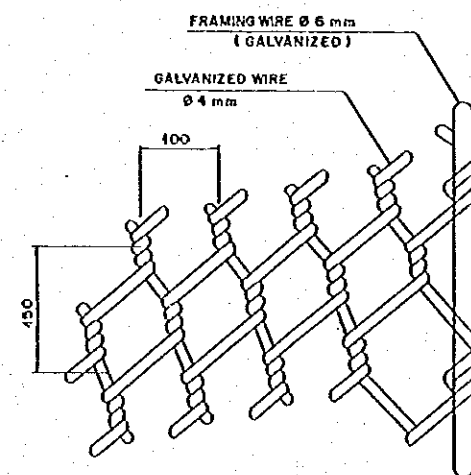


NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

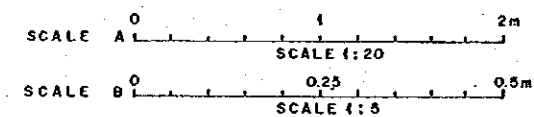
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY STRUCTURAL DETAILS OF REVETMENT		DRAWING NO. WG - P3 - PR - 81 - 9 SHEET NO. 41
SOAN INTERNATIONAL CONSULTING AGENCY CIVIL ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PACIFIC INTERNATIONAL INC.	DESIGNED CHECKED APPROVED	PROJECT MANAGER



GABION CYLINDER
SCALE .A



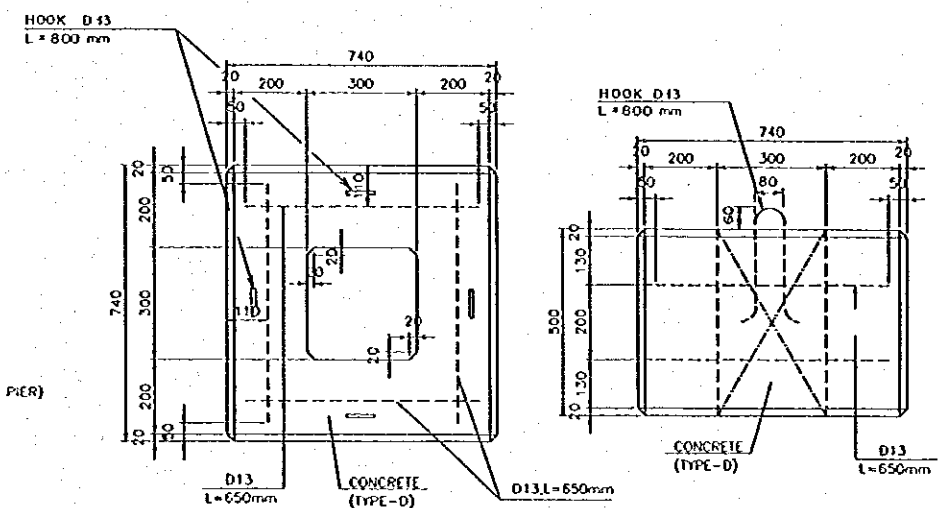
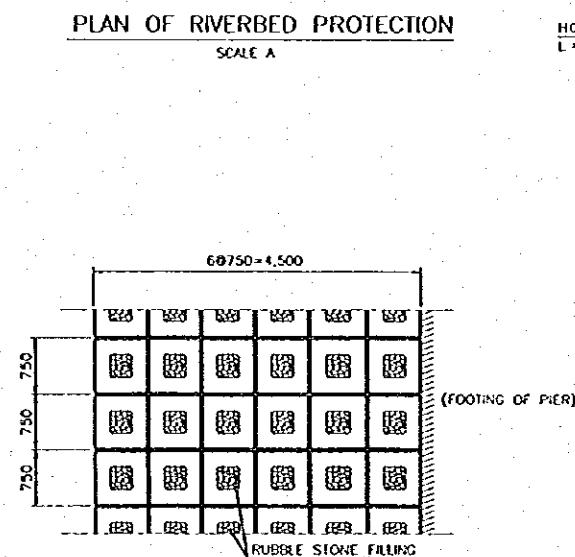
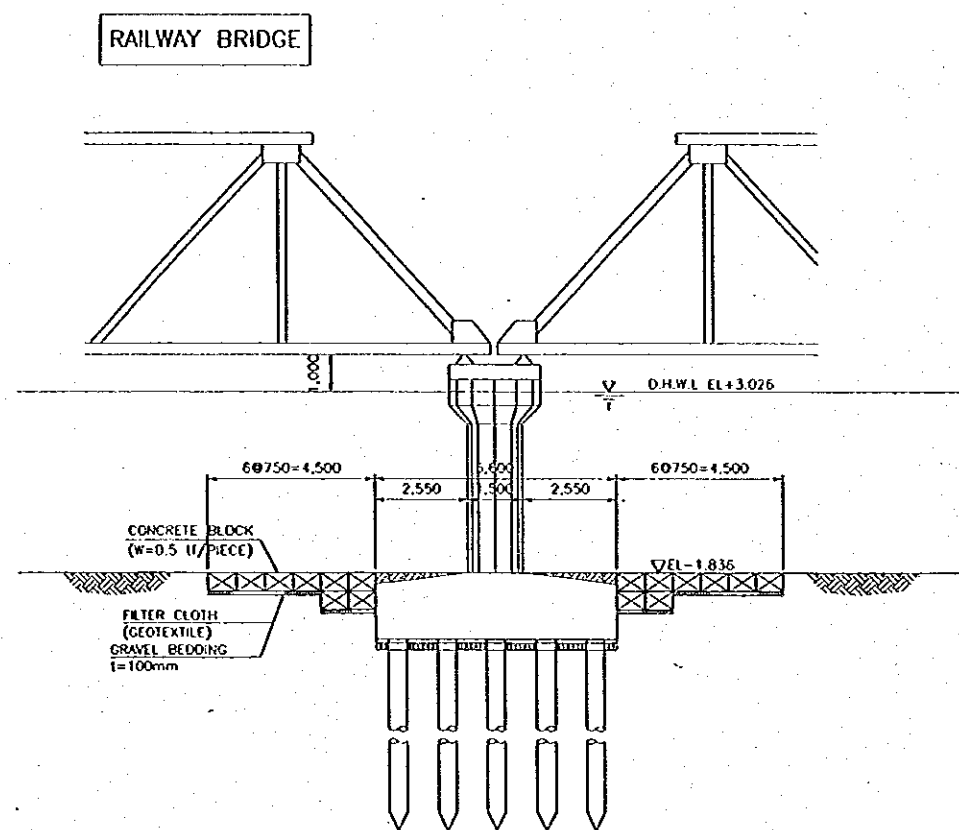
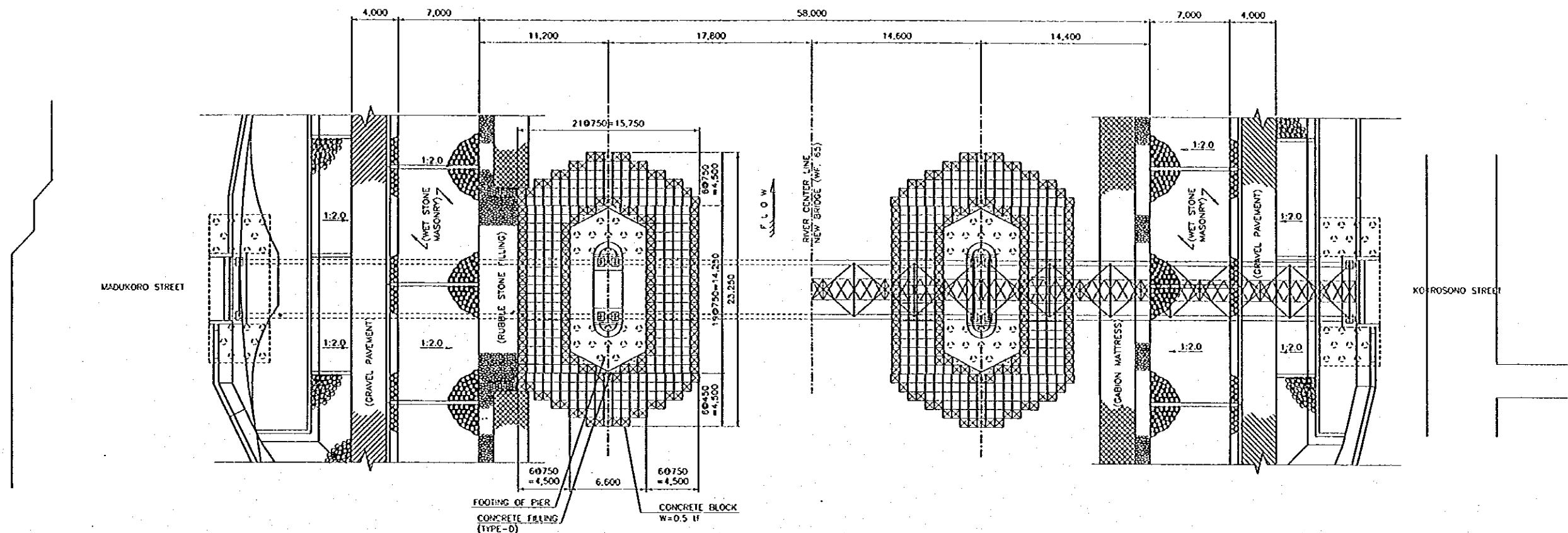
DETAIL OF WIRE MESH
SCALE .B



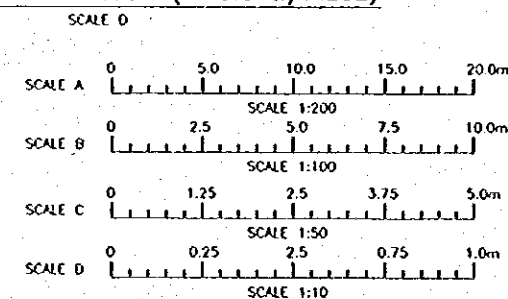
- NOTE :**
- 1 ALL WIRES USED IN GABION MATTRESS SHALL BE GALVANIZED
 - 2 ALL WIRES USED IN GABION CYLINDER SHALL BE COATED WITH POLY VINYL CHLORIDE AFTER BEING GALVANIZED
 - 3 "L" FOR GABION CYLINDER SHALL BE DETERMINED BY ADJUSTING TO THE SITE CONDITION

NO.	DATE	REVISIONS	COORDINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / KARANG RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY DETAILS OF GABION MATTRESS AND CYLINDER		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. WG - P3 - R2 - 51 - 10 SHEET NO. 43 DATE CONTRACTING
JAPAN INTERNATIONAL COOPERATION AGENCY CIL BANGSAKANDU CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. PACIFIC INTERNATIONAL INC.	DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	APPROVED PROJECT MANAGER



DETAIL OF CONCRETE BLOCK (W=0.5 IF/PIECE)

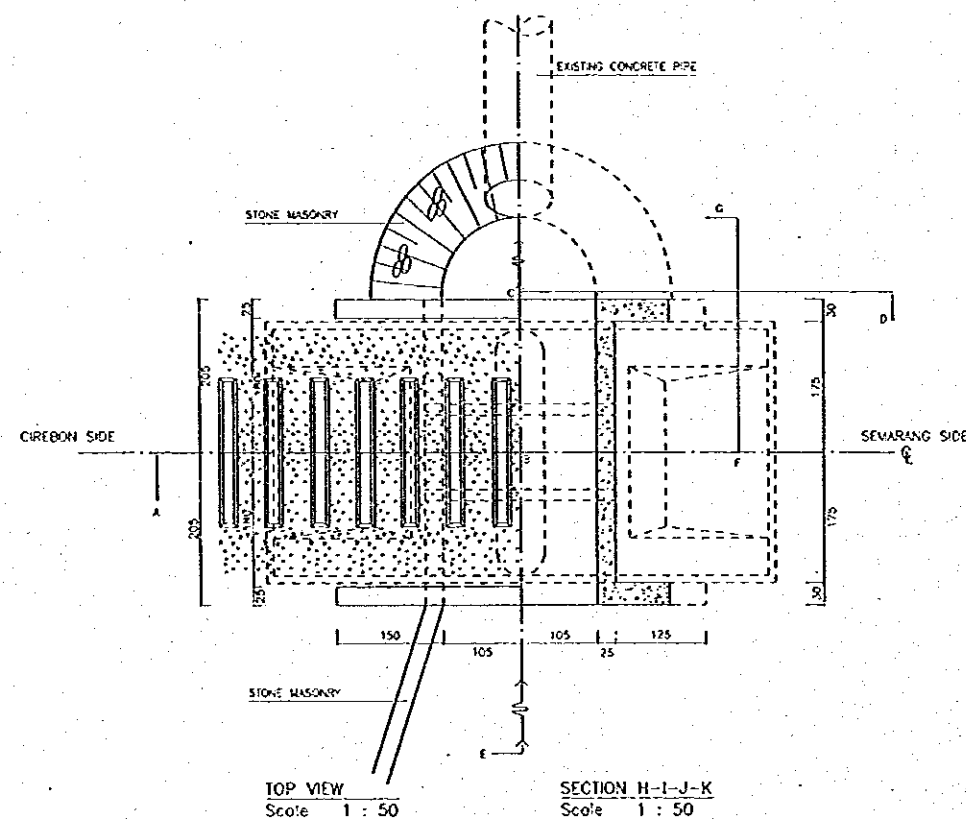
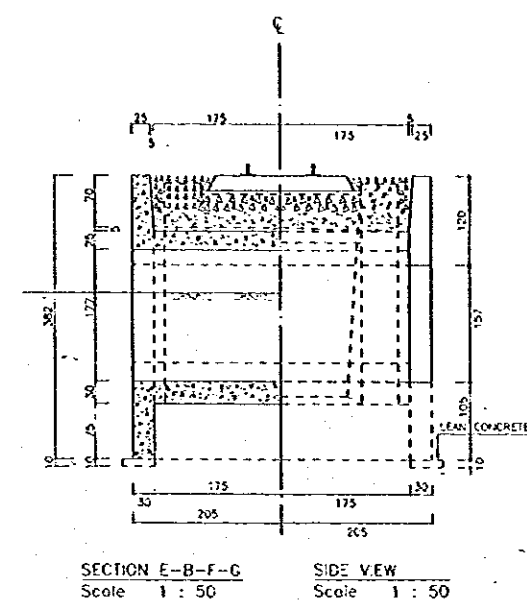
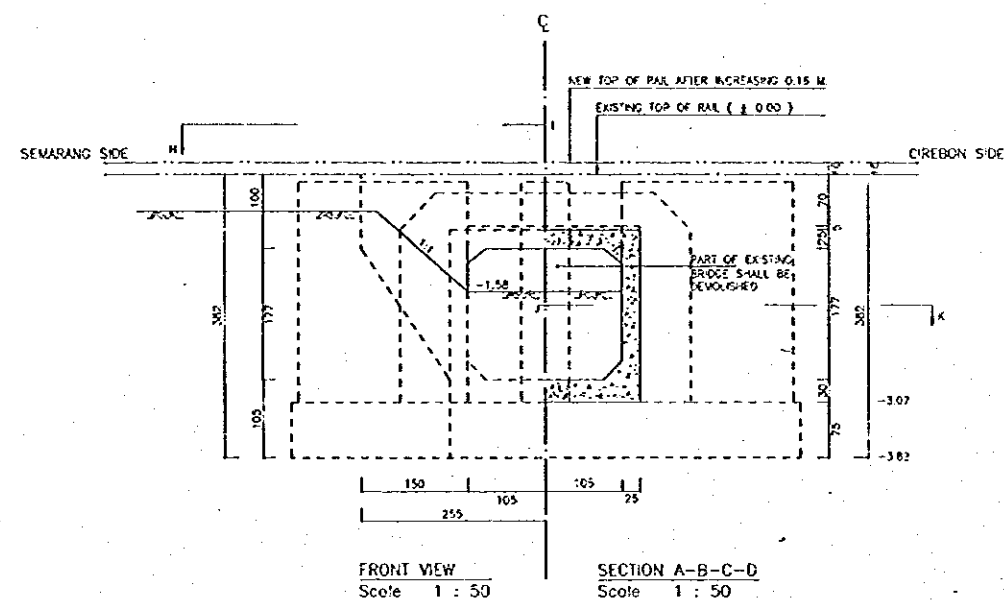


CROSS SECTION OF RIVERBED PROTECTION
SCALE B

ARRANGEMENT OF CONCRETE BLOCKS
SCALE C


					THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROJECT CENTRAL JAWA PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. WS - P3 - SR - 01 - 01 SHEET NO. 44 DATE CONTRACT NO.
					JRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT RAILWAY BRIDGE ACROSS WEST FLOODWAY DETAILS OF REVERBED PROTECTION FOR RAILWAY BRIDGE		
					JAWA INTERNATIONAL COOPERATION AGENCY CII ENGINEERING CO. LTD. IN COOPERATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND FARO INTERNATIONAL INC.		
					DESIGNED CHECKED CREEP OF PLANNING AND DESIGN PROJECT MANAGER		
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED		

NOTE :
CONCRETE K-225
REINFORCED STEEL BAR U-39

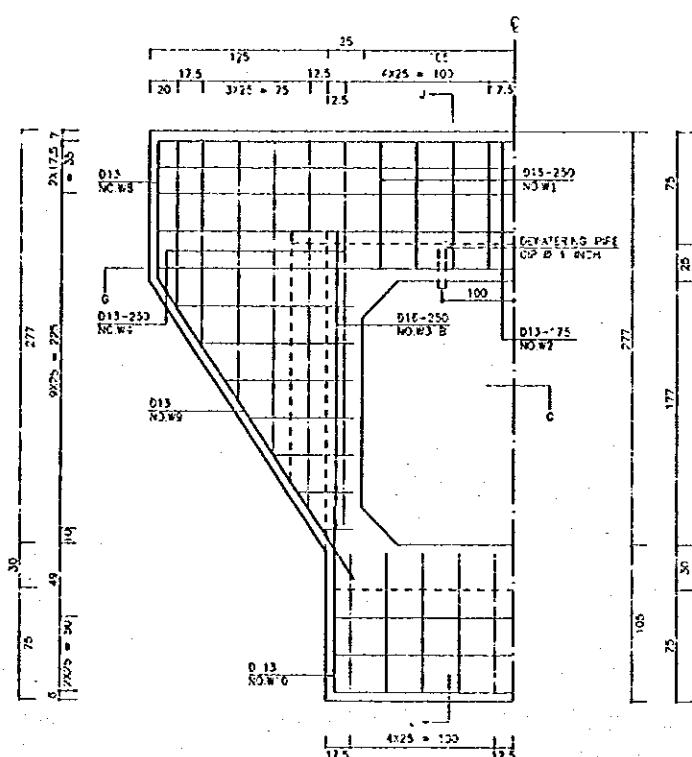


Scale : 0 250 500 Cm

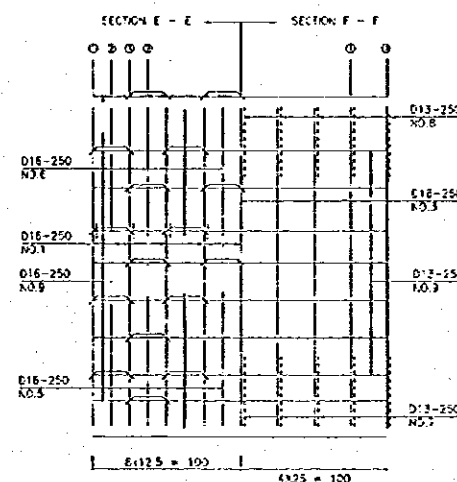
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 <p>PT. PERUSAHAAN ENAM BERTAMA API (Persero) (Public Corporation)</p> <p>SAKIP INTERNATIONAL OPERATIONS ABU DUBAI INCORPORATED IN U.A.E. (ARABIC EMIRATES) PACIFIC CONSULTANTS INTERNATIONAL, INC. SAKIP INTERNATIONAL, INC.</p>	<p>THE REPUBLIC OF INDONESIA</p> <p>MINISTRY OF PUBLIC WORKS</p> <p>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p> <p>SURABAYA FLOOD CONTROL PROJECT COMPONENT 1 WEST FLOODPLAIN & GABUNG RIVER DEVELOPMENT CROSSING STRUCTURE OF DRAINAGE CHANNEL RAILWAY BRIDGE BHS KM 00 + 816,55 ON LINE</p>		<p>PROVINCE</p> <p>CENTRAL JAVA</p>
	<p>APPROVED</p>		<p>PROJECT NAME</p> <p>SAKIP CONTROL, DRAINAGE IMPROVEMENT AND RAILWAY BRIDGE IMPROVEMENT & CHANNEL 1 ON THE SOUTH OF JOMBANG</p>
	<p>CHIEF OF PLANNING AND DESIGN</p>		<p>DISTRICT</p> <p>SEMARANG CITY</p>
	<p>PROJECT MANAGER</p>		<p>DRAWING NO. WG - PJ - RA - 36 - 1</p> <p>SHEET NO. 45</p>
	<p>DIRECTOR OF PROJECTS</p> <p>CHIEF OF CONSTRUCTION OF STRAKE AND BRIDGE</p> <p>CHIEF OF STRUCTURAL AND STEELWORK SECTION</p> <p>DESIGNED</p> <p>CHECKED</p>	<p>DATE</p> <p>CONTRACT NO.</p>	

NOTE :
CONCRETE K-225
REINFORCED STEEL BAR U-39

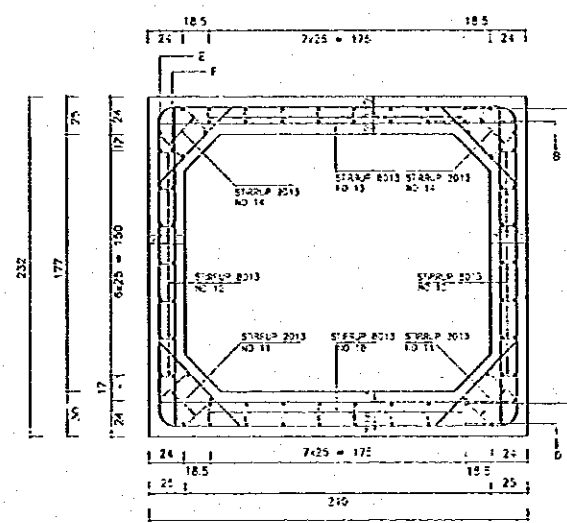


SECTION 1 - 1
Score 1 : 25

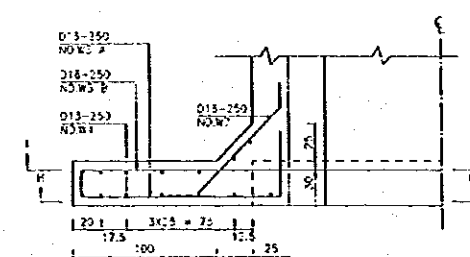


SIDE WALL

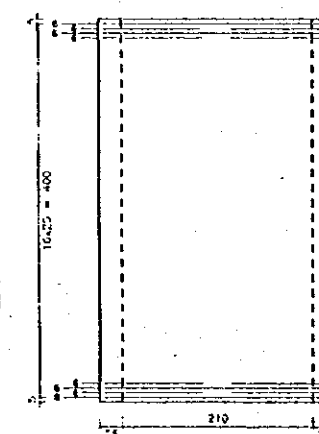
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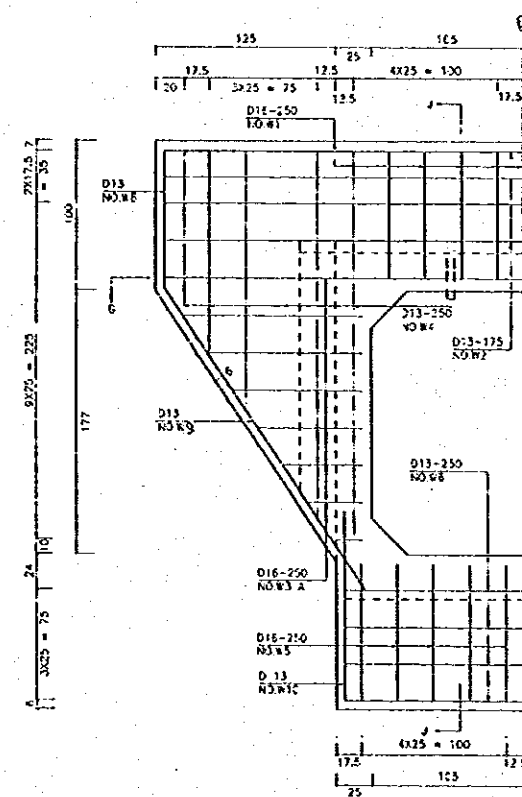
REBAR ARRANGEMENT OF BOX CULVERT
Scale 1 : 25



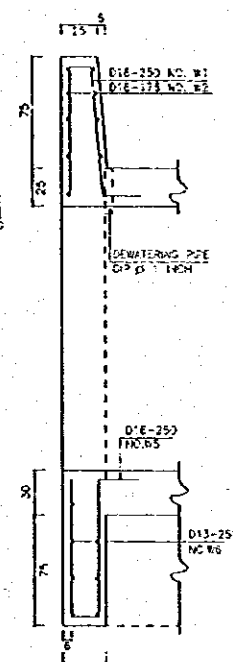
SECTION 6 - 6
REBAR ARRANGEMENT OF WING WALL
Scale 1 : 25



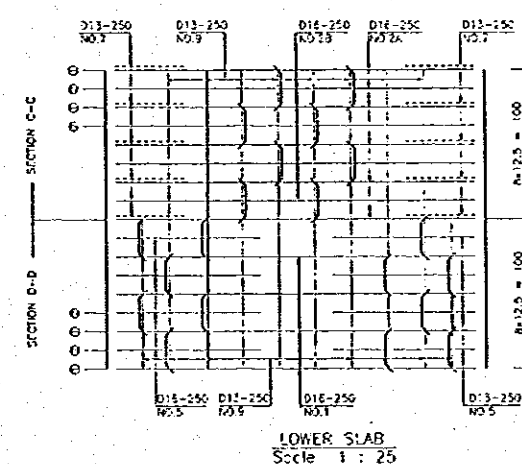
PLAN OF REAR ARRANGEMENT ON BOX CULVERT
Scale 1 : 40



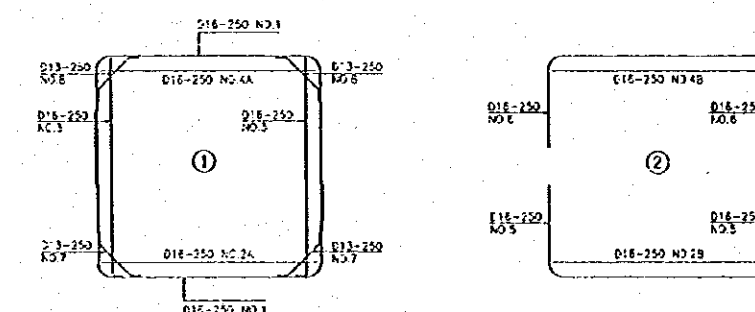
SECTION H - H
Scale 1 : 25



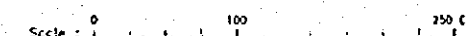
SECTION J - J
Scale 1 : 25




LOWER SLAB
Scale 1 : 25



COMBINATION OF REBAR ARRANGEMENT ON BOX CULVERT
Scale 1 : 40

[illegible]

 <p>THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p> <p>REINFORCEMENT OF CONCRETE PROJECT COMPLETED 1ST FLOODING / CARRYING RIVER IMPROVEMENT CROSSING STRUCTURE OF DRAINAGE CHANNEL BIS (REINFORCING BAR ARRANGEMENT)</p>		<p>PROVINCE CENTRAL JAVA</p> <p>PROJECT NAME KARUN CARRIAGE, 2ND-3RD STAGE AND 4TH STAGE IMPROVEMENT REINFORCEMENT IS COMPLETED ON THE SURFACE OF CHANNEL</p> <p>DISTRICT SEMAPANG CITY</p> <p>DRAWING NO. WG-33-PR-00- SHEET NO. 46</p>
<p>APPROVED</p>	<p>CHIEF OF PLANNING AND DESIGN PROJECT MANAGER</p>	<p>DATE</p> <p>CONTRACT NO.</p>
<p>PERUSAHAAN UNIK BERITA API (CORPORATE REPORT PAPER COMPANY)</p> <p>REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p>		<p>DATE</p> <p>CONTRACT NO.</p>

REBAR BENDING LIST

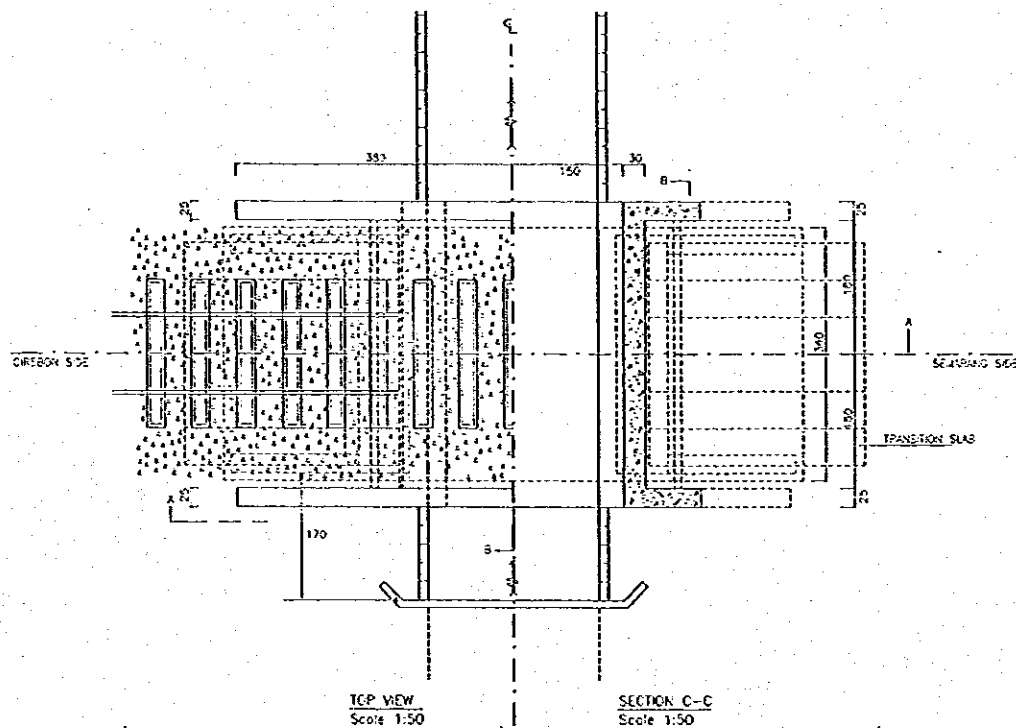
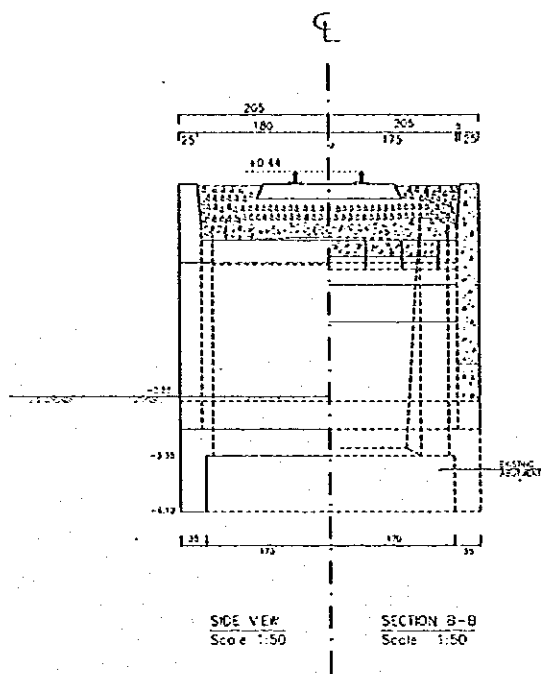
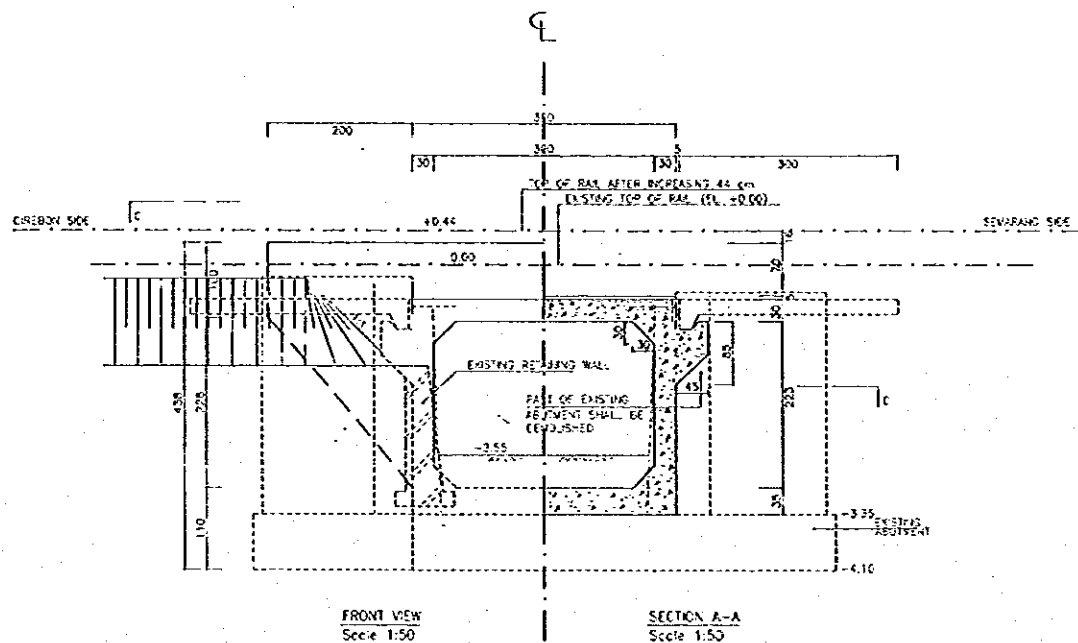
BH. 5

NO	SIZE	TYPE	a	b	c	d	e	R	LENGTH	NOS	WEIGHT	TOTAL
	(mm)		(cm)	(cm)	(cm)	(cm)	(cm)	(cm)	(cm)		(kg t/m)	(kg t)
BOX CULVERT												
NO. 1	D 16	C	166	54	244.4	202			666.4	30	1.580	315.87
NO. 2A	D 16	A	240						240	15	1.580	56.88
NO. 2B	D 16	A	240						240	14	1.580	53.09
NO. 3	D 16	B	24	235					259	30	1.580	122.77
NO. 4A	D 16	A	240						240	15	1.580	56.88
NO. 4B	D 16	A	240						240	14	1.580	53.09
NO. 5	D 16	D	82	27	88				197	26	1.580	80.93
NO. 6	D 16	D	82	27	88				197	28	1.580	87.15
NO. 7	D 13	E	20	79	20				119	30	1.040	37.13
NO. 8	D 13	E	20	72	20				112	30	1.040	34.94
NO. 9	D 13	A	400						400	76	1.040	316.16
NO. 10	D 13	F	28	19	13				60	128	1.040	79.87
NO. 11	D 13	F	28	32	13				73	64	1.040	48.59
NO. 12	D 13	G	28	14	13				55	256	1.040	146.43
NO. 13	D 13	F	28	28	26				82	128	1.040	109.16
NO. 14	D 13	F	28	58	26				112	64	1.040	74.55
WING WALL / SIDE WALL												
NO. W1	D 16	H	84	7.8	84	24			199.8	18	1.580	56.82
NO. W2	D 13	I	13	494.4	13				520.4	20	1.040	108.24
NO. W3A	D 16	I	13	28-134.4 Variable	64				105-211.4 Variable	32	1.580	79.99
NO. W3B	D 16	B	13	28-134.4 Variable					41-147.4 Variable	36	1.580	53.58
NO. W4	D 13	I	13	104.7-270 Variable	13				130.7-296 Variable	56	1.040	128.13
NO. W5	D 16	J	90	16.4	88	24			218.4	20	1.580	69.01
NO. W6	D 13	I	13	246.7	13				272.7	14	1.040	39.71
NO. W7	D 16	E	24	92	24				140	40	1.580	88.48
NO. W8	D 13	K	20	86.7	20				126.7	8	1.040	10.54
NO. W9	D 13	L	20	240					260	8	1.040	21.63
NO. W10	D 13	B	20	140					160	8	1.040	13.31
TOTAL												2,342.93

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED


THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		PROJECT NAME SEMARANG CITY	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		DISTRICT SEMARANG CITY	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		DRAWING NO. WG-PS-DR-8 41	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		SHEET NO. 41	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		DATE 1/11/2011	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		CONTRACT NO. 1/11/2011	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		PROJECT MANAGER 1/11/2011	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		CHECKED 1/11/2011	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		DESIGNED 1/11/2011	
CROSSING STRUCTURE OF DRAINAGE CHANNEL CROSSING STRUCTURE OF DRAINAGE CHANNEL		CHECKED 1/11/2011	

NOTE :
CONCRETE K-225
REINFORCED STEEL BAR U-39

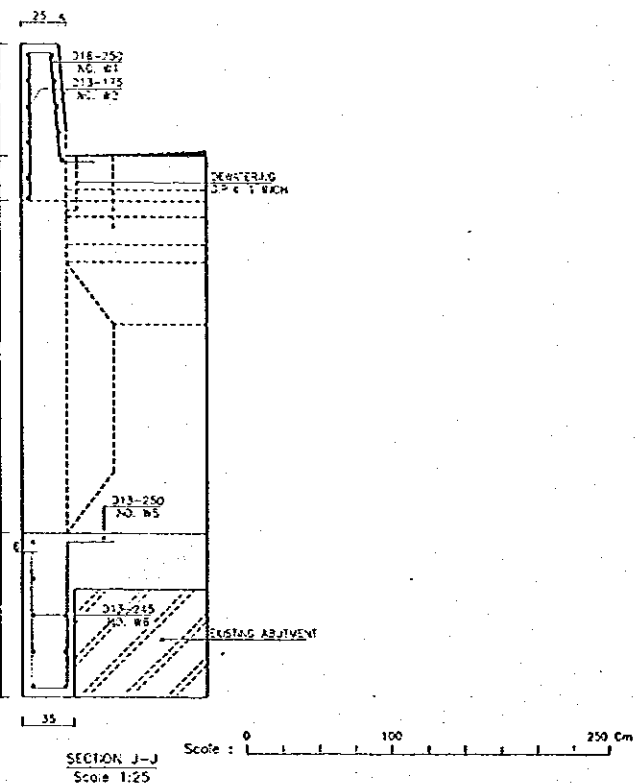
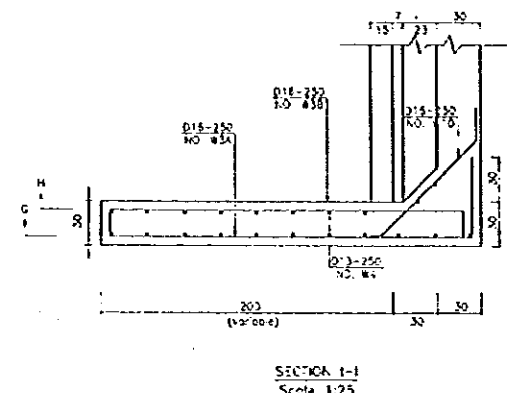
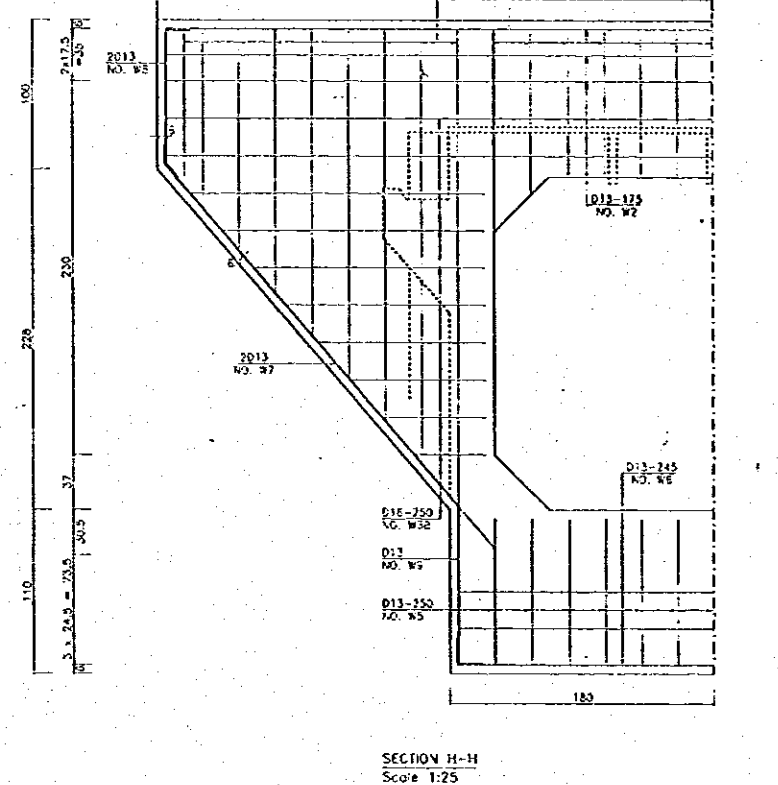
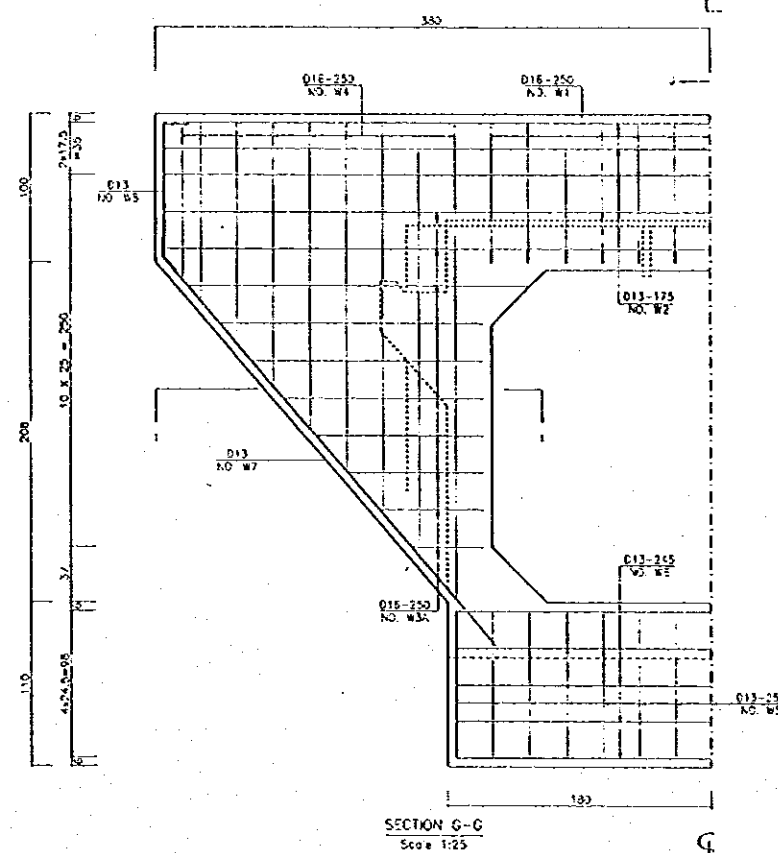
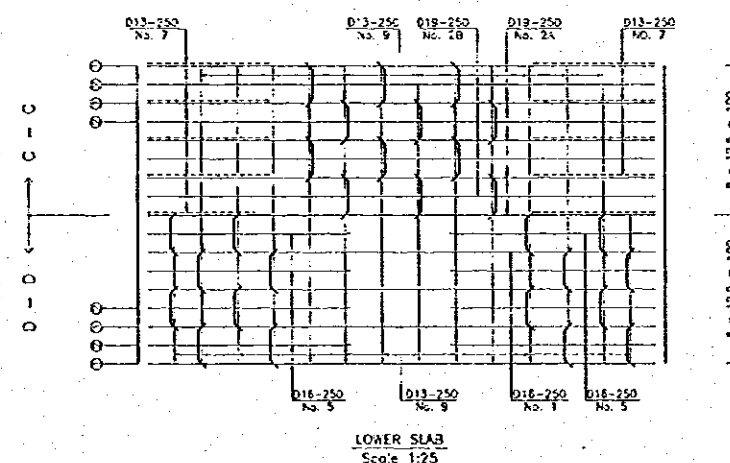
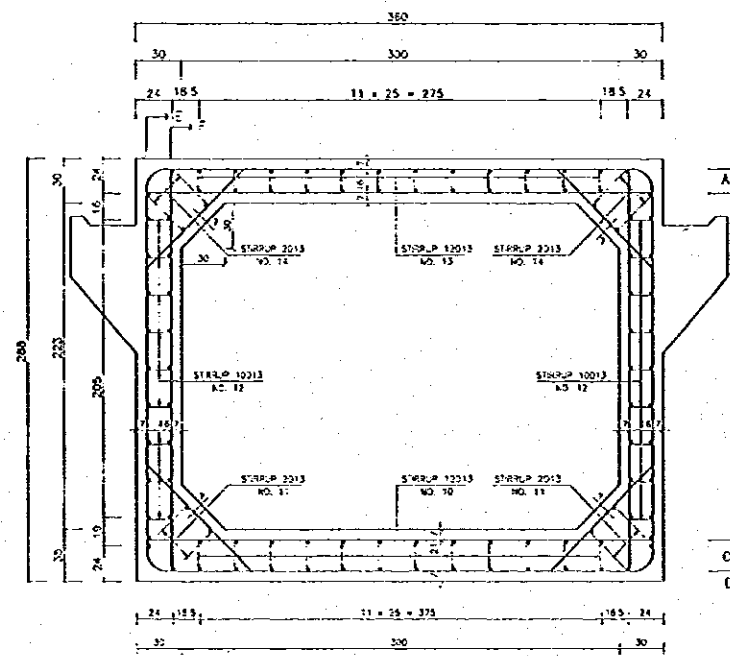
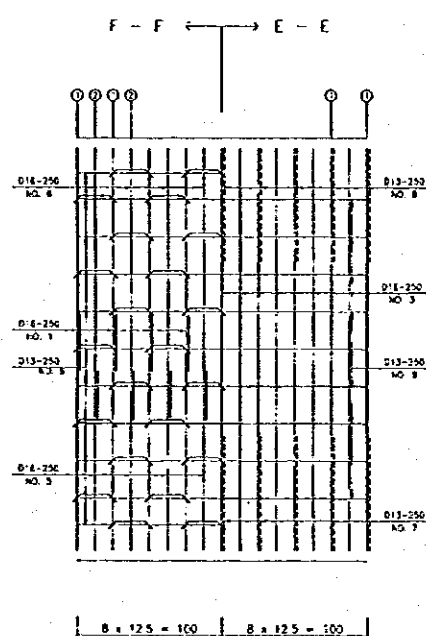
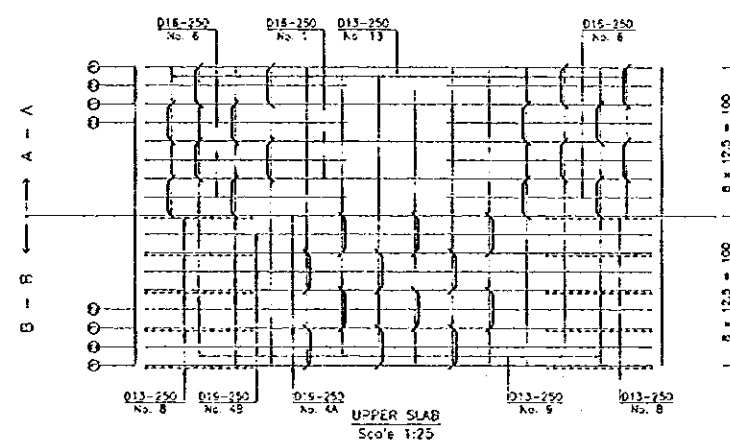


Scale : 0 250 500 cm

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 <p>THE REPUBLIC OF INDONESIA</p> <p>MINISTRY OF PUBLIC WORKS</p> <p>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF RIVER SETTLEMENT</p>		<p>PROVINCE CENTRAL JAVA</p>	
		<p>PROJECT NAME</p> <p>THE CROSSING BRIDGE ON THE RIVER SETTLEMENT IN SEMARANG IS SEMARANG</p>	
<p>ALTERNATIVE FLOOD CONTROL PROJECT COMPONENT 1: FLOOD PROTECT / CROSSING RIVER DEVELOPMENT</p> <p>CROSSING STRUCTURE OF DRAINAGE CHANNEL RAILWAY BRIDGE BHM KM 11 + 117</p>		<p>DISTRICT SEMARANG CITY</p>	
<p>APPROVED</p> <p>CHIEF OF PLANNING AND DESIGN</p>		<p>DRAWING NO. WG - PP - PR - SI - 13</p> <p>SHEET NO. 48</p>	
<p>PROJECT MANAGER</p>		<p>DATE</p> <p>CONTRACT NO.</p>	
<p>MONITOR OF TECHNIQUE</p> <p>CHIEF OF PROJECTABILITY OF BRIDGE AND STRUCTURE</p> <p>CHIEF OF SECTION BRIDGE AND CROSSING ROAD IN THE</p>		<p>DESIGNED</p> <p>CHECKED</p>	
<p>PEKERJAAN UMUM PERUSAHAAN API (KORPORASI PERUSAHAAN PERUSAHAAN API)</p>		<p>APPROVED</p>	

NOTE :
CONCRETE K-225
REINFORCED STEEL BAR U-39

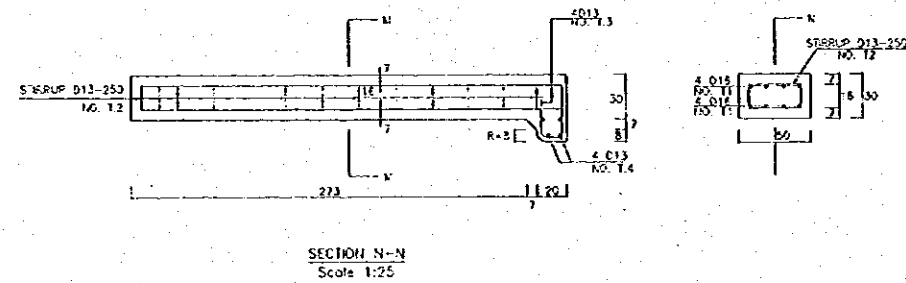
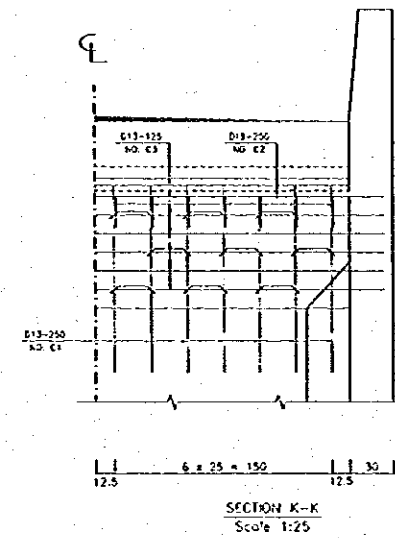
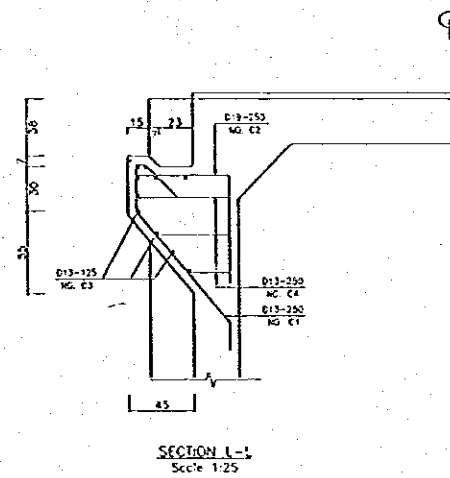
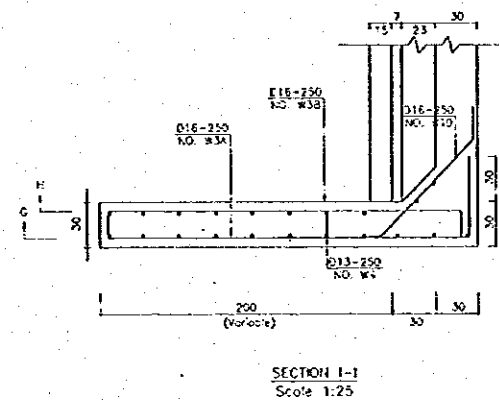
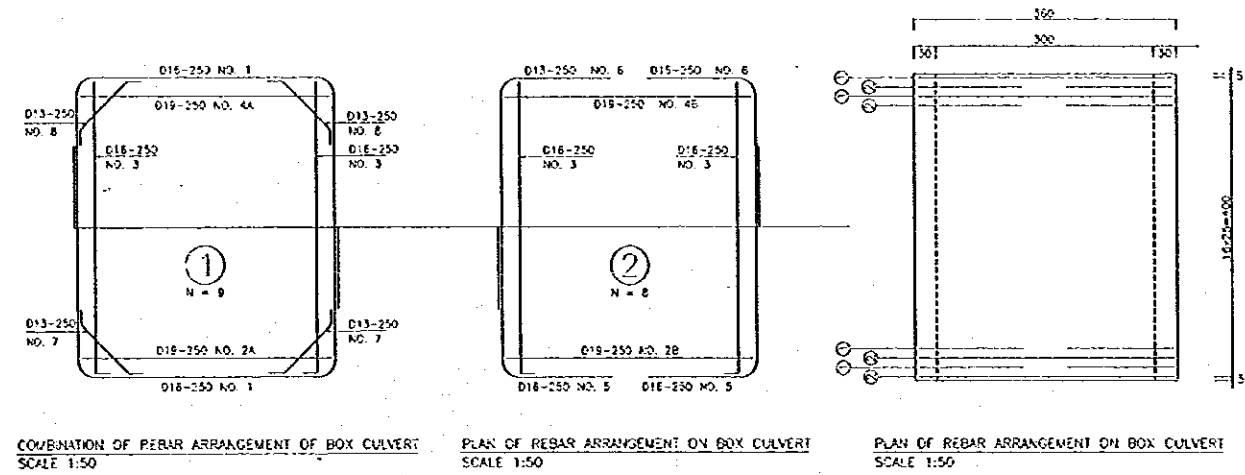


REBAR ARRANGEMENT OF WING WALL
Scale 1:25

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF RURAL SETTLEMENT JATUN-SURABAYA FLOOD CONTROL PROJECT CROSSING STRUCTURE OF DRAINAGE CHANNEL BHE (REINFORCING BAR ARRANGEMENT) (U3)		PROVINCE CENTRAL JAWA PROJECT NAME JATUN-SURABAYA FLOOD CONTROL PROJECT CROSSING STRUCTURE OF DRAINAGE CHANNEL BHE (REINFORCING BAR ARRANGEMENT) (U3)
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	CHIEF OF TECHNICAL CHIEF OF SURVEILLANCE CHIEF OF MAINTENANCE CHIEF OF MATERIAL DESIGNED CHECKED	DISTRICT SEMARANG CITY DRAWING NO. WG-23-RA-24-5 SHEET NO. 49 DATE CONTRACT NO.

NOTE :
CONCRETE K-225
REINFORCED STEEL BAR U-39

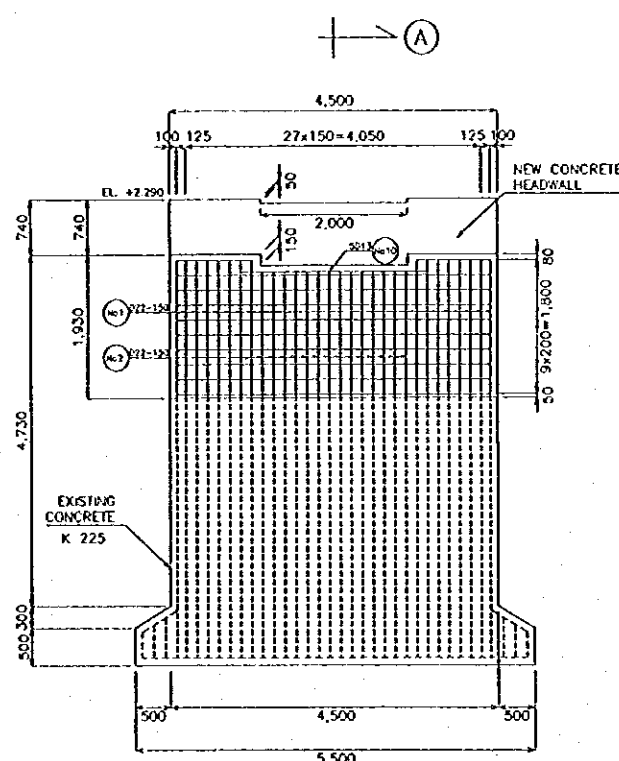


REBAR ARRANGEMENT OF TRANSITION SLAB
Scale 1:25

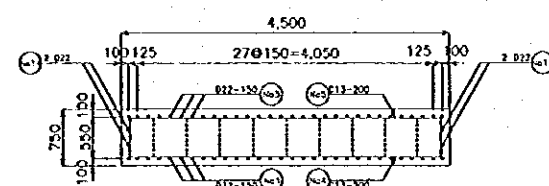
Scale : 0 100 250 Cm

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

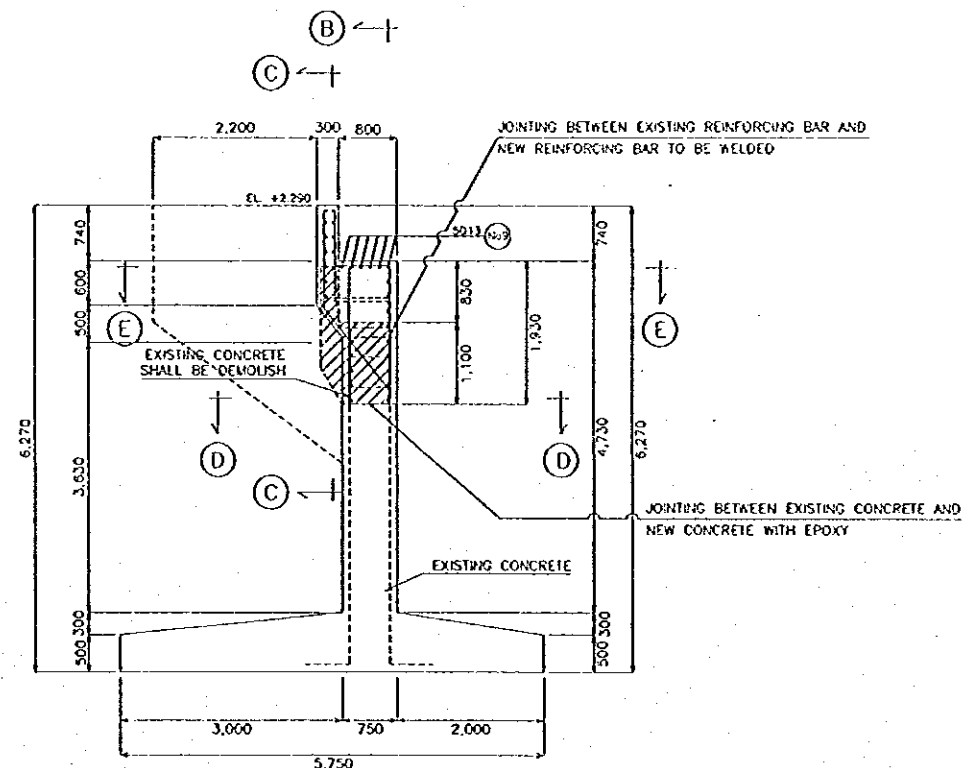
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT NATUNGSUNA FLOOD CONTROL PROJECT COMBINED 1 ST FLOOR / GRAND RIVER IMPROVEMENT CROSSING STRUCTURE OF DRAINAGE CHANNEL B16 (REINFORCING BAR ARRANGEMENT) (R2)		PROVINCE CENTRAL JAVA PROJECT NAME BANGUNAN BANGUNAN JALAN DAN JALAN DISTRICT SEMARANG CITY DRAWING NO. WO-P3-RR-20 SHEET NO. 50 DATE CONTRACT NO.
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	DIRECTOR OF TECHNOLOGY CHIEF OF RESEARCH AND DESIGN CHIEF OF DESIGN AND CONSTRUCTION DESIGNED CHECKED	PERUSAHAAN CUMI TEKNIK API (PT. CUMI TEKNIK API) PT. CUMI TEKNIK API PT. CUMI TEKNIK API PT. CUMI TEKNIK API



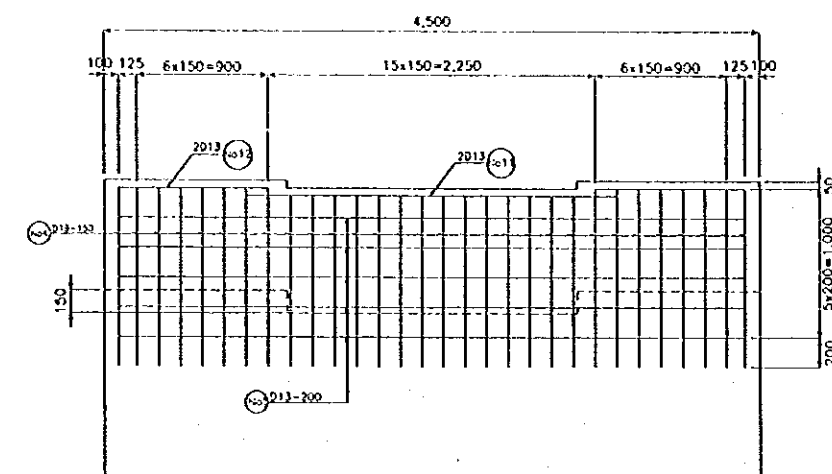
SECTION B-B
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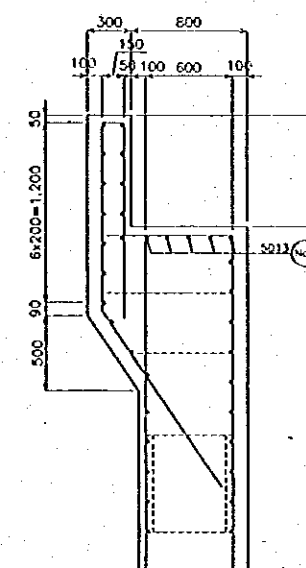
SECTION D-D
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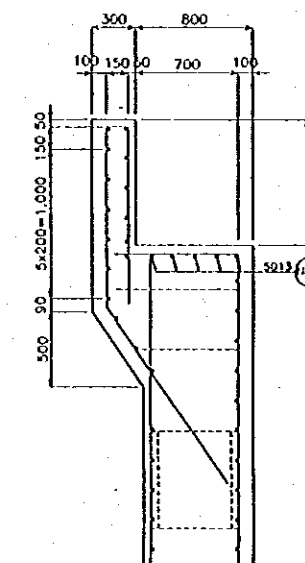
SECTION A-A
1:50



SECTION C-C
1:25



SECTION H-H
1:25



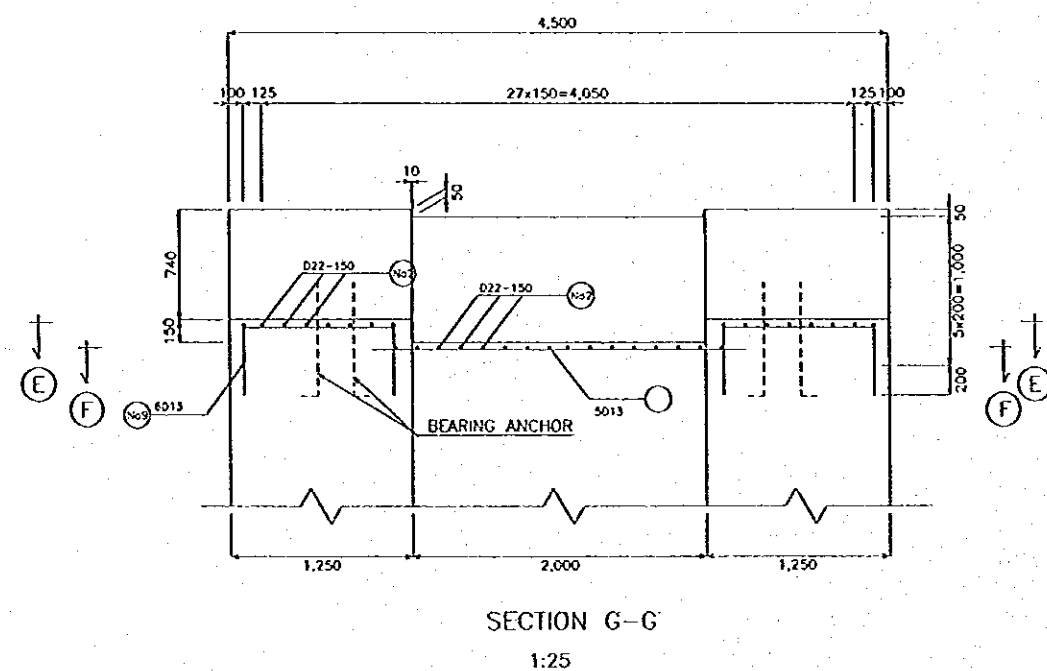
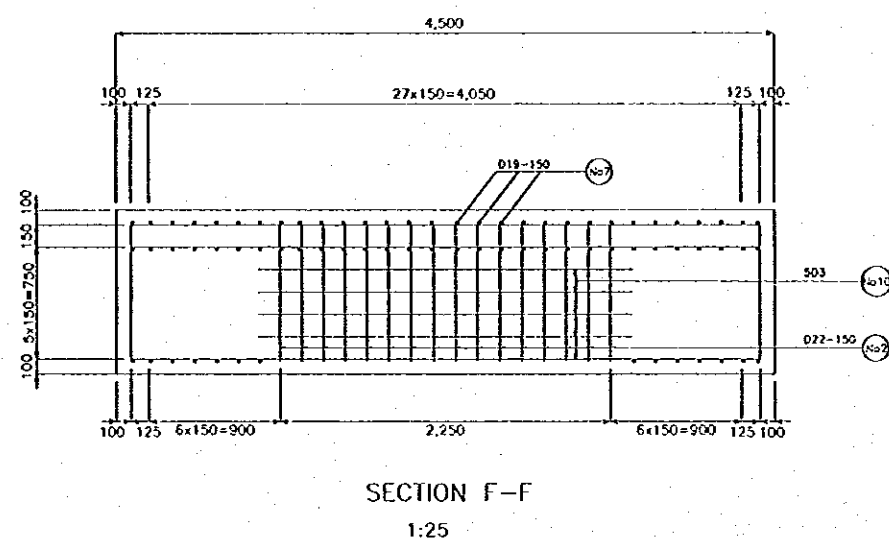
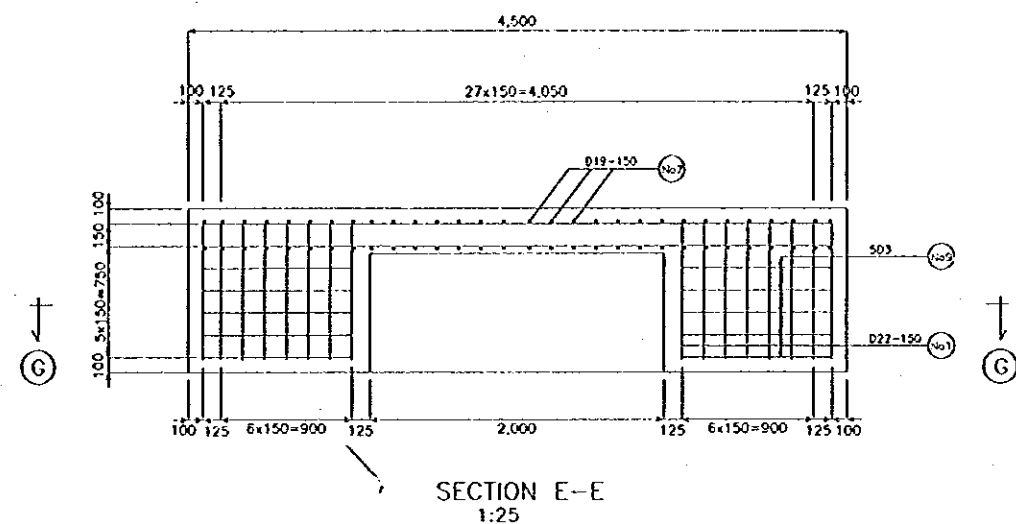
SECTION I-I
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SCALE 1:50
0m 2.5m 5m

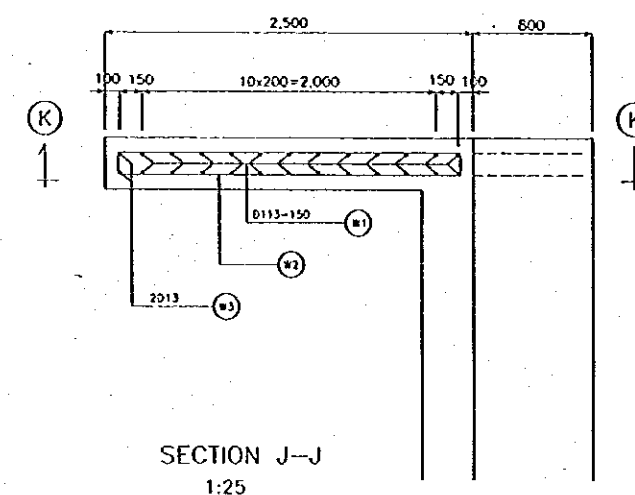
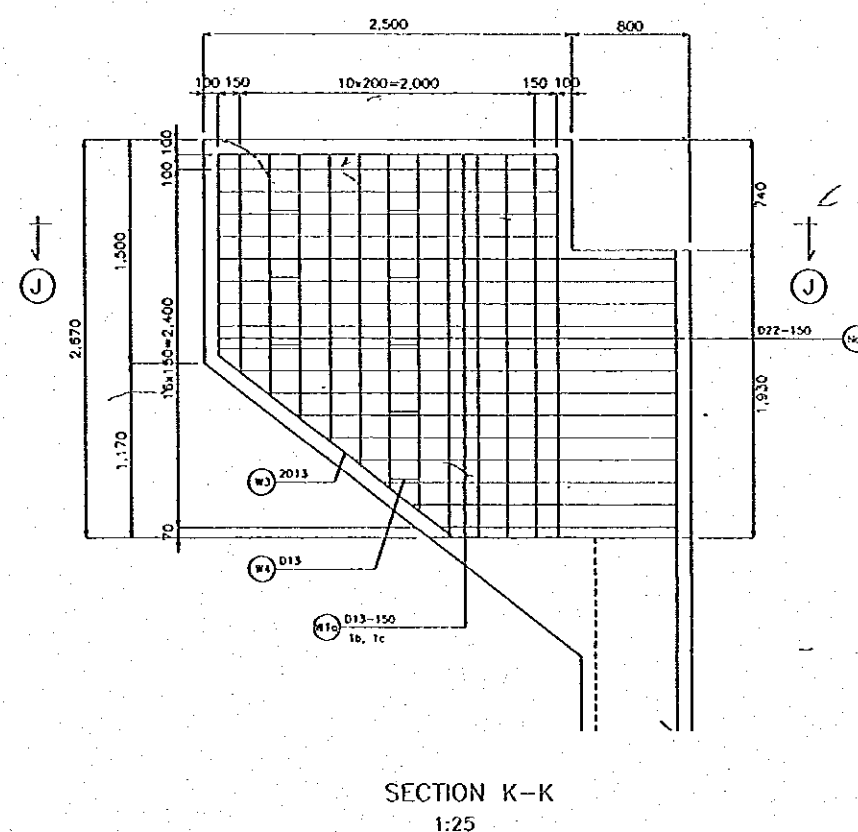
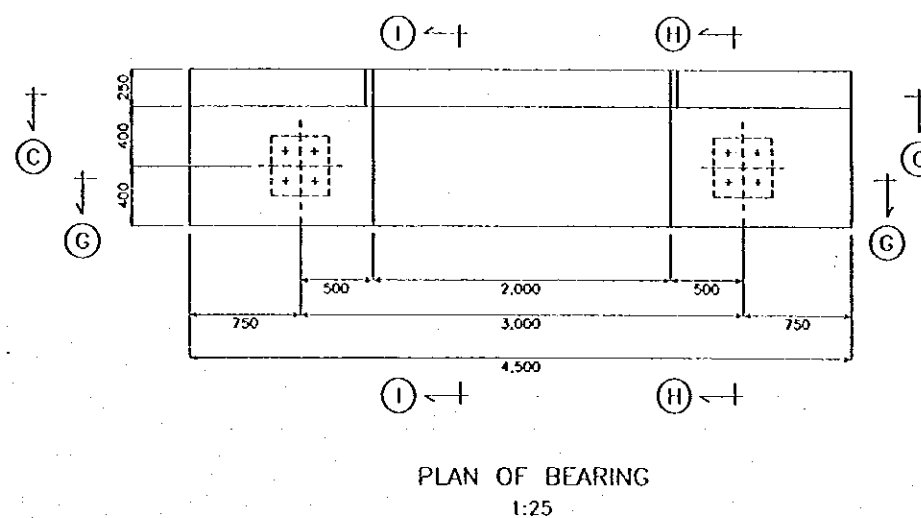
SCALE 1:25
0m 1.25m 2.5m

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
RAISING OF RAILWAY BRIDGE B1-13 REINFORCING BAR ARRANGEMENT (1/2)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEDAYU AND IN THE SURVIVAL OF ECONOMIC
CROSSING STRUCTURE OF DRAINAGE CHANNEL		OUTLET SEDAYU CITY
APPROVED: _____ CHIEF OF PLANNING AND DESIGN		DRAWING NO. WG - P3 - PR - P2 - 11
PROJECT MANAGER _____		SHEET NO. 52
CHECKED: _____ ENGINEER		DATE 1/2/2011
CHECKED: _____ ENGINEER		CONTRACT NO.



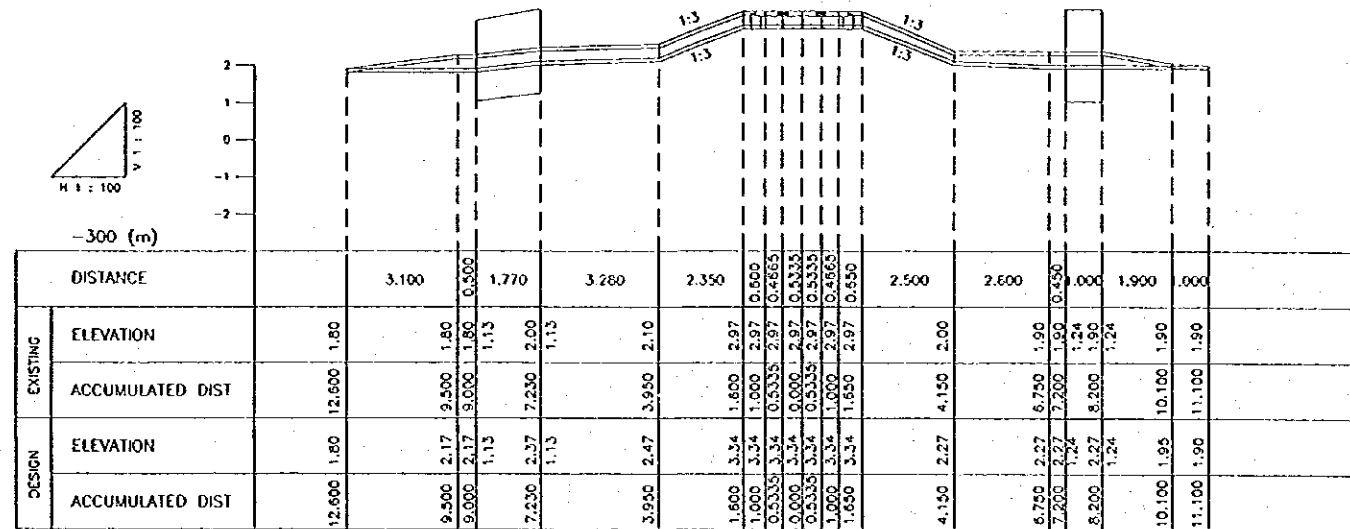
SCALE
1 : 25
0m 1.25m 2.5m



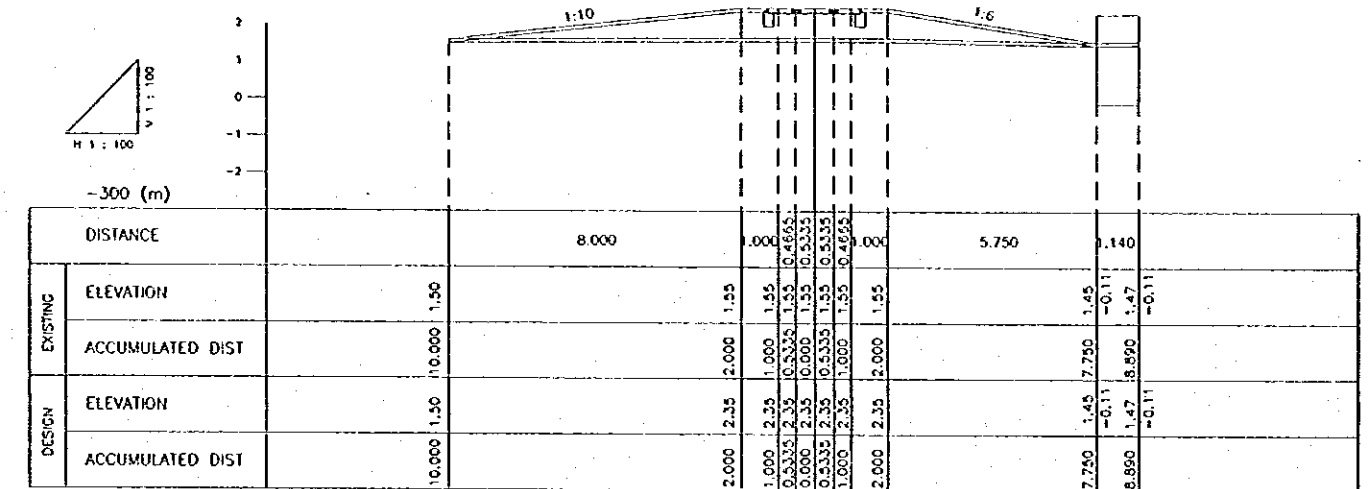
NO	DATE	REVISIONS	COORDINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT BRATISWARA FLOOD CONTROL PROJECT CONCENTRIC WEST FLOODWAY / GARANG RIVER IMPROVEMENT CROSSING STRUCTURE OF DRAINAGE CHANNEL		PROVINCE CENTRAL JAVA PROJECT NAME FLOOD CONTROL, DRAINAGE AND WATER RESOURCES DEVELOPMENT IN BRATISWARA IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. WG - PS - PR - R - 12 SHEET NO. 53 DATE CONTRACT NO.
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER PERUSAHAAN LAMEN EKSTRAJAM (CONSULTING ENGINEER) JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DESIGNED CHECKED Sdarta	CONTRACTOR

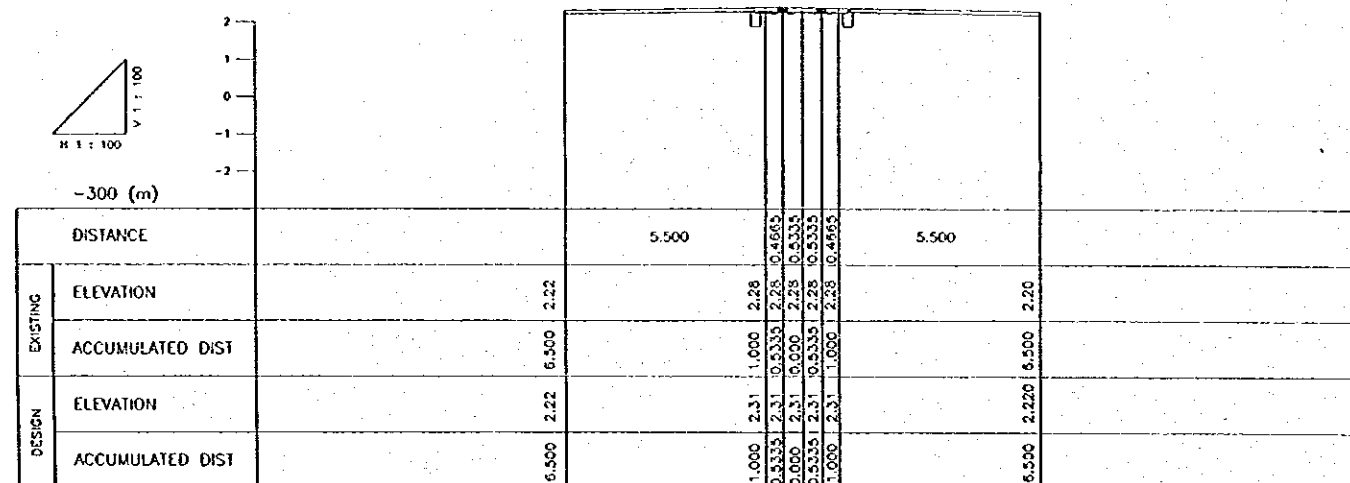
② NOYORONO ROAD
KM 00 + 987



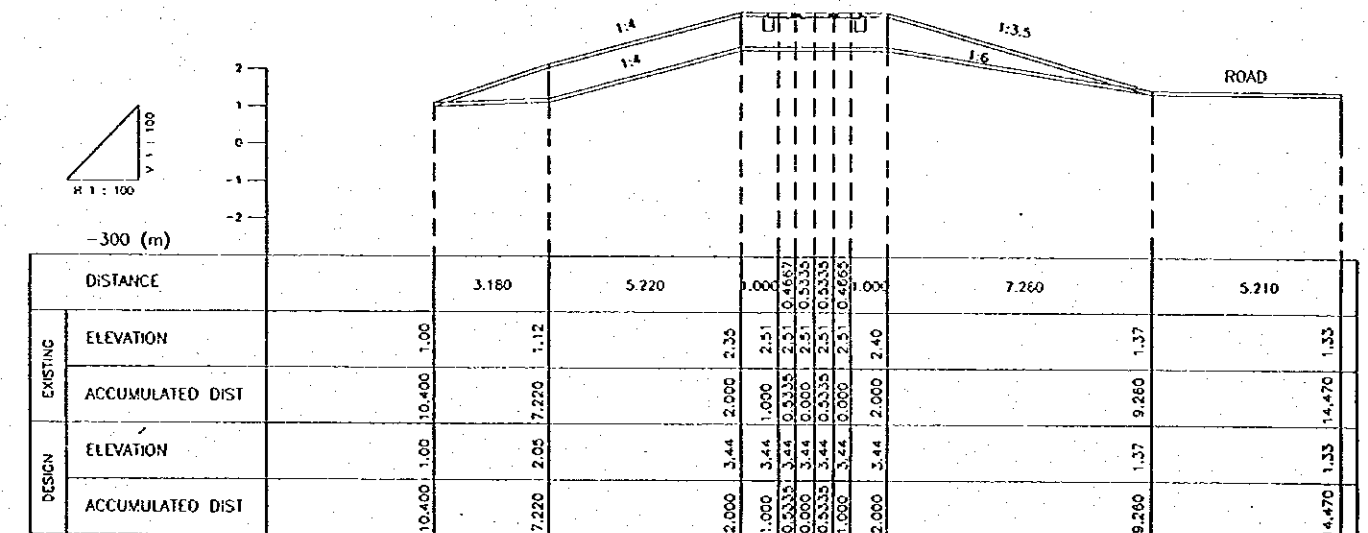
⑦ KENCONO WUNGU ROAD
KM 02 + 342



① BROTOJOYO ROAD
KM 00 + 708



⑥ SAWO JAJAR II ROAD
KM 02 + 095

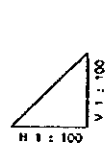


NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
PRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT PROFILE OF APPROACH ROAD (1/3)		PROJECT NAME PRATUNSELUNA FLOOD CONTROL PROJECT
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DISTRICT SEMARANG CITY
PERUSAHAAN UKUM BENEKA API (CORPORATION BENEKA API)		DRAWING NO. NG - PS - RR - CR - 16 SHEET NO. 51
DESIGNED CHECKED		DATE CONTRACT NO.

⑤ MADUKORO ROAD
KM. 01 + 633

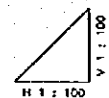
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-300 (m)

DISTANCE		10.000	58.200	7.800	9.000	4.000	4.000	5.500	8.200	62.900	11.400
EXISTING	ELEVATION	4.580									
	ACCUMULATED DIST	90.000	80.000	21.800	14.00	5.000	1.000	5.000	18.700	81.600	93.000
DESIGN	ELEVATION	4.580	4.680	5.262	5.340	5.430	5.430	5.430	5.375	4.664	4.550
	ACCUMULATED DIST	90.000	80.000	21.800	14.00	5.000	1.000	5.000	10.500	81.500	93.000

③ PONCOWOLO TIMUR RAYA ROAD
KM. 01 + 318



-300 (m)

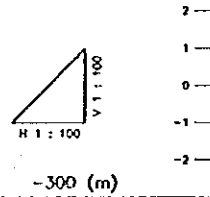
DISTANCE		3.300	1.700	4.000	1.400	3.500	2.500	2.500
EXISTING	ELEVATION	2.35	2.37	2.31	3.58	2.34	2.44	2.44
	ACCUMULATED DIST	12.000	8.700	7.000	3.000	5.000	7.500	10.00
DESIGN	ELEVATION	2.35	2.37	2.91	4.18	3.14	3.04	3.04
	ACCUMULATED DIST	12.000	8.700	7.000	3.000	5.000	7.500	10.00

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
PROJECT NAME JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT APPROACH ROAD PROFILE OF APPROACH ROAD (2/3)		DISTRICT SEMARANG CITY
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	PERUSAHAAN UMUM KERETA API PT. KERETA API PT. KERETA API PT. KERETA API	DRAWING NO. WS - P3 - RR - CR - 17 SHEET NO. 55 DATE CONTRACT NO.
DESIGNED CHECKED	DIRECTOR OF PROJECT CHIEF OF DEPARTMENT OF TRUCK AND BARGE DESIGNED CHECKED	SIGNATURE SIGNATURE SIGNATURE

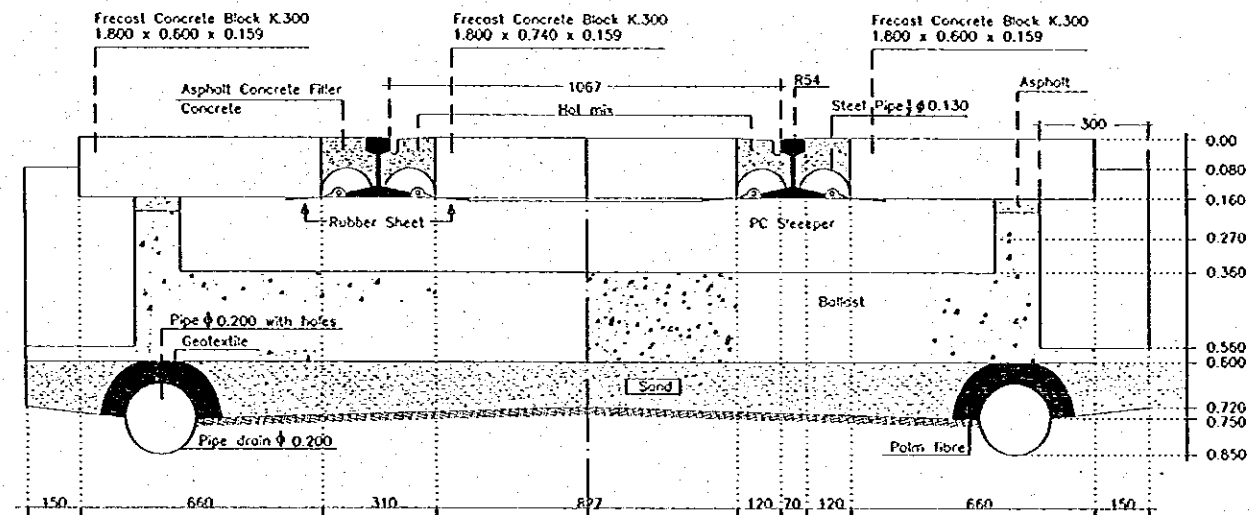
④ KOKROSONO ROAD
KM. 01 + 524

1:100



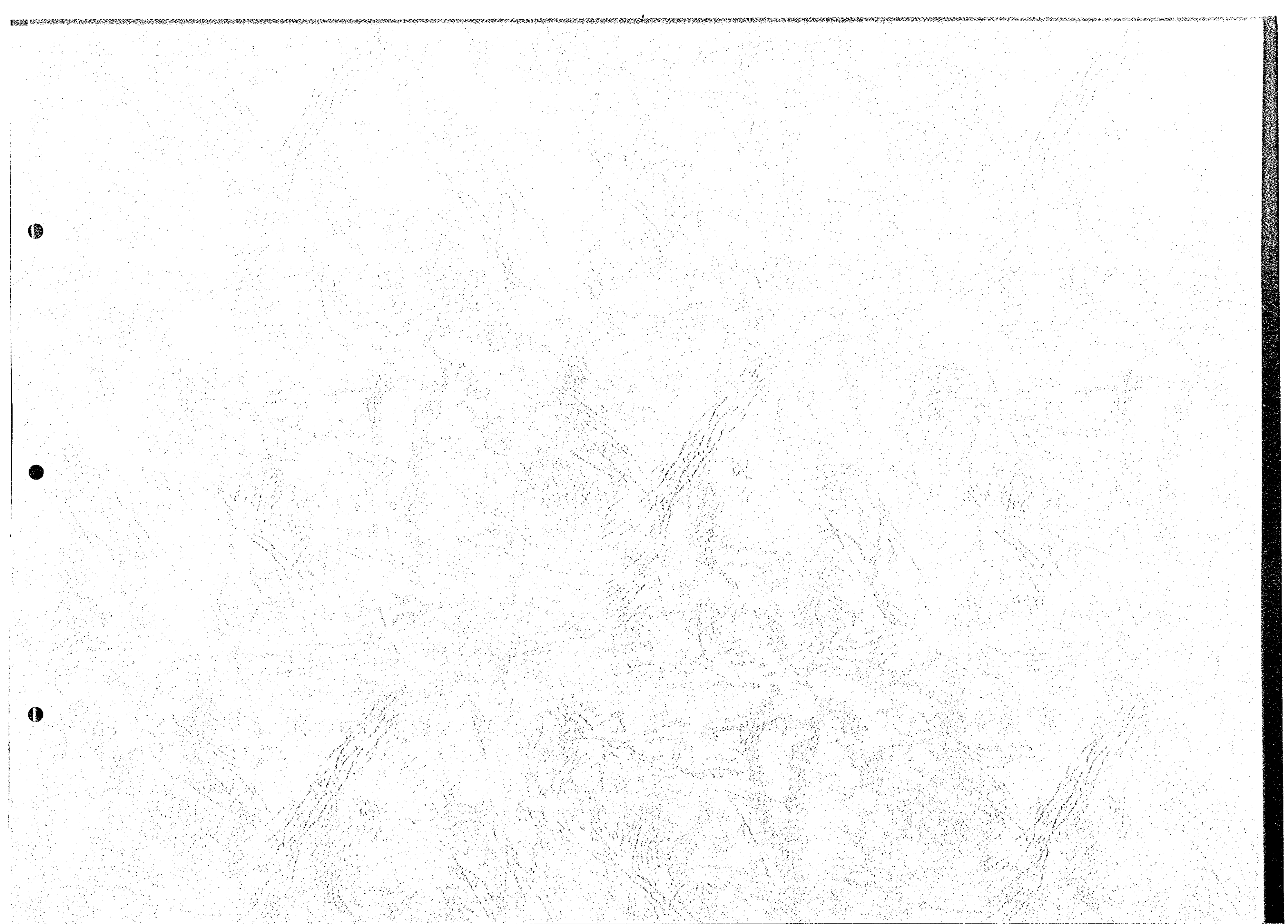
DISTANCE		6.00	5.800	47.500	8.200	7.500	4.000	4.000	6.800	7.800	49.400	5.000	6.500
EXISTING	ELEVATION	80.000	74.000	68.200	62.500	57.000	51.500	46.000	40.500	35.000	29.500	24.000	18.500
	ACCUMULATED DIST	0.000	6.000	11.800	19.000	26.500	30.500	34.500	41.300	49.100	98.500	103.500	110.000
DESIGN	ELEVATION	80.000	74.000	68.200	62.500	57.000	51.500	46.000	40.500	35.000	29.500	24.000	18.500
	ACCUMULATED DIST	0.000	6.000	11.800	19.000	26.500	30.500	34.500	41.300	49.100	98.500	103.500	110.000

⑧ DETAIL SLEEPER
Scale: 1:200



NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
PROJECT NAME JATUNGSURUN FLOOD CONTROL PROJECT COMPONENT : BEST FLOODWAY / GARANG RIVER IMPROVEMENT APPROACH ROAD PROFILE OF APPROACH ROAD (3/5)		DISTRICT SEMARANG CITY
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	PERUSAHAAN TEKNIK KESATA API (PUSKAP) PT. KESATA API (PUSKAP) PT. KESATA API (PUSKAP) PT. KESATA API	DRAWING NO. WG - PS - PR - CR - 10 SHEET NO. 56 DATE CONTRACT NO.
DESIGNED CHECKED	S. Stando A. Stando	



1000000