

ICT	ΛF	DEINFORCEMENT

NO TOTAL UNIT
REO'D LENGTH WEIGHT
UNIT (mm) (kg/m)

191,500 1.040

80.960 1.040

86,040 1,580

141.910 1.040

130.275 1.040

126,360 1,580

89.440 1.040

77.640 1.049

114,250 3.850

217.600 1.580

111,720 1.040

23.280 1.049

124,520 3.850 479,402

3.850 593.208

3.850 71.764

1.040 238,493

2.980 407.306

2.980 223.142

1.580 251.836

1.040 191.568

1.580 211.404

1.040 19.386

16.268

3.850

1.040

1.040

1.580

67,870

165,400

154,080

18,640

136,680

74,880

129,420

159,390

184,200

133,800

18,640

15,640

4,600

26 229.320

24

30

40

155,000 1.040 172,640

147.586

93.018

439.863

262.912

343.800

116.438

24.211

LENGTH OF BAR (mm)

3,820

3.520

6,170

2,895

4,860

3,320

3,440

6,470

6,170

4,570

12,800

12.800

4,665

5,820

5,660

6,420

9,320

3,686

8,820

5,695

3,120

3.595

3.795

6,140

3,345

9,320

8,820

3,910

2,300

200

200

220

12

23

26

50

26

12

25

22

013 3.320

013 3.320

6,170

798

3,820

6.170

5,170

3,820

12,000

3,820

5.820

5,650

5,670

9,320

3,435

8,820

4.995

2.420

3,595

3,595

5,570

3.345

9.320

8,820

013 2.820

013 2.820

016

013

016

013

D25

F2

F5 D13

F8

F9

FIO 013

F12 016

F14 013

F15 013

-F16 025

F17 025

F18 D25

F19 016

F22 D22

F23 D16

F25 013

F26 016

F27 013

013

F28 025

013

022

016

F13 016

500

500

200

150

750

800

008

495

750

700

BAR WARK	D:A (mm)	(mm)	b (mm)	c (mm)	LENGTH OF BAR (mrn)	NO REO'D UNIT	TOTAL LENGTH (mm)	UNIT WEIGHT (kg/m)	WEIGHT (kg)	SHAPE	REMARKS
A1	013	4.995	200	-	5,195	22	114,290	1.040	118.862	Jo	
A2	D13	5.370	200		5.570	12	66.840	1.040	69.514	J.	o VARIES
L)	013	5.595	200	_	5,795	8	45.360	1.040	45.214		
A4	013	3.095	200		3.295	82	270,190	1,040	280.998		
A5	013	2.525	200		2,825	8	22.600	1.040	23.504	٥	-
A5	D13	3,185	300	251	3,736	72	268.992	1.040	279.752	C(R=160) b	
A7	013	800	300	-	1,100	6	6.600	1.040	6.854	Jb	o VARES
A8	013	630	-		530	85	54,180	1.040	56.347	Jb	
A3	013	5,095	300	400	5,795	34	197,030	1.040	204.911	δ[]c	
A10	013	1.280			1,280	38	48.640	1.040	50.586	С.	
A11	D13	1.535	251	-	1.786	22	39,292	1.040	40.864	R=160 cb	
A12	013	6,095	200	-	6.295	8	50,360	1.040	52.374	٥	
A13	D13	3.910	-		3,910	4	15,640	1.049	16.266		
A14	013	2.595	200	-	2,795	10	27.950	1.040	29.068	_J.	a YARIES
A15	022	5.595	700	-	6.295	4	25.180	2.950	75.036	Ja	
A16	022	2.435	700	_	3,135	10	31,350	2.980	93.423	_]。	o VARIES
A17	D13	2,945	750	204	3,899	38	148,162	1.040	154.088	ي م	
A18	013	6.095	500		6,595	22	145,090	1.040	150.834	J°	
A19	013	10,245	_		10,245	38	389,310	1.040	404,882		
A20	D13	3.895	-		3.895	30	116,850	1.040	121.524		
A21	013	720	~	-	720	10	7,200	1.040	7.488		o VARIES
A22	D13	6.170	1,695	_	9,560	12	114,720	1.040	119.309	b(jb	
A23	013	1,635	-		1,895	24	45.480	1.040	47.299	<u>a</u>	
A24	D19	4,995	600	_	5,595	18	100,710	2.230	224.583	j.	
A25	052	5,370	600	-	5,970	10	59,700	2.980	177.905	Jo	o VARIES
A26	013	1,880	750	204	2.834	36	102.024	1.040	106.105	P P	
A27	019	2,435	700		3.135	16	50,160	2.230	111.857	Ja b	

(

G1	013	570	200	<u> </u>	970	32	31,040	1.040	32.282	p[ ]p	
G2	013	470	200	-	870	30	26,100	1.040	27,144	ы	
G3	013	670	200		1070	84	89.530	1.040	93.475	4.P	

	D!A	WEICHT (kg)
	013	5,777.803
	016	3,611.052
10TAL	019	3,771.108
Ī	022	3.655.652
	D25	1,652.151
GRAND TOTAL		18,458.766

BAR WARK	DA (mm)	ბ (ო <i>ო</i> )	ზ (ოო)	(mm)	LENGTH OF BAR (mm)	NO REQ'D UNIT	IOIAL EENGTH (mm)	UNIT WEIGHT (kg/m)	WEIGHT (kg)	Shape	REWARKS
81	019	5,095	300	400	5,795	24	139,080	2.230	310,148	ه ا	
82	D19	3.095	200	_	3,295	45	151,570	2 230	338.001	Jo	-
83	D19	2,670	200	-	2.870	11	31,570	2.230	70.401	ط ا	
B4	019	2,670	200	-	2,870	7	20,090	2.230	40.801	J.	
85	019	5,095	200	_	6.295	12	75,540	2.230	158.454	ول	
85	019	1.280		-	1,230	22	28,160	2.230	62.797	_ 0	
87	019	630	-		530	22	13.850	2.230	30.908	_ 0	
68	D19	400	160	1.307	2,427	10	24.270	2.230	\$4.122	R=415	
89	019	300	10	1,307	1,927	10	19.270	2.230	42.972	or BR=416 or Br=416	
810	013	1,020	270	-	1,290	24	30,950	1.040	32.198	_ 01b	
C1	D13	5.095	500		6,095	51	310,845	1.040	323.279	p 1p	
C2	D16	6,170	1,715	-	7,835	23	181.355	1.580	286.541	٥ <u>.</u>	
c3	016	6,170	<del>-</del> -	_	6.170	22	135,740	1.580	214,469		
C4	016	5,095			5,095	24	122.280	1.580	193.202	_ •	
٤١	D22	10.245	877.5	-	12,000	50	600,000	2.930	1783.0	bijb	·
£2	013	5.095	300	400	5,795	24	139,080	1.040	144.643	b/ 0 k	
€3	013	3,345	300	1,170	4,815	24	115,550	1.049	120.182	Ы <u>о</u> јс	
E4	013	630			630	28	17,640	1.040	18.345	_ 0	
£5	913	1.280	_	-	1,280	28	35.840	1.040	37.274	. 0	
£5	019	12,000	800	-	12,800	27	345.600	2.230	770.588	- ° b	
ε,	D19	12,000	800	-	12,800	28	358,400	2.230	799.232	<u> </u>	
83	016	10,245	500		10,745	56	601,720	1.580	950.718	b	
٤9	022	2.085	700		2,785	21	58,485	2.980	174.285	-0-70	
٤10	019	12.000	800	-	12,800	26	332,800	2.230	742.144	<u> </u>	
E11	D16	12 000	800		12,800	13	166,400	1.580	262.912	<u>о</u> ь	
E12	022	10,245	700	_	10,945	22	240,790	2.930	717.554		
						,					

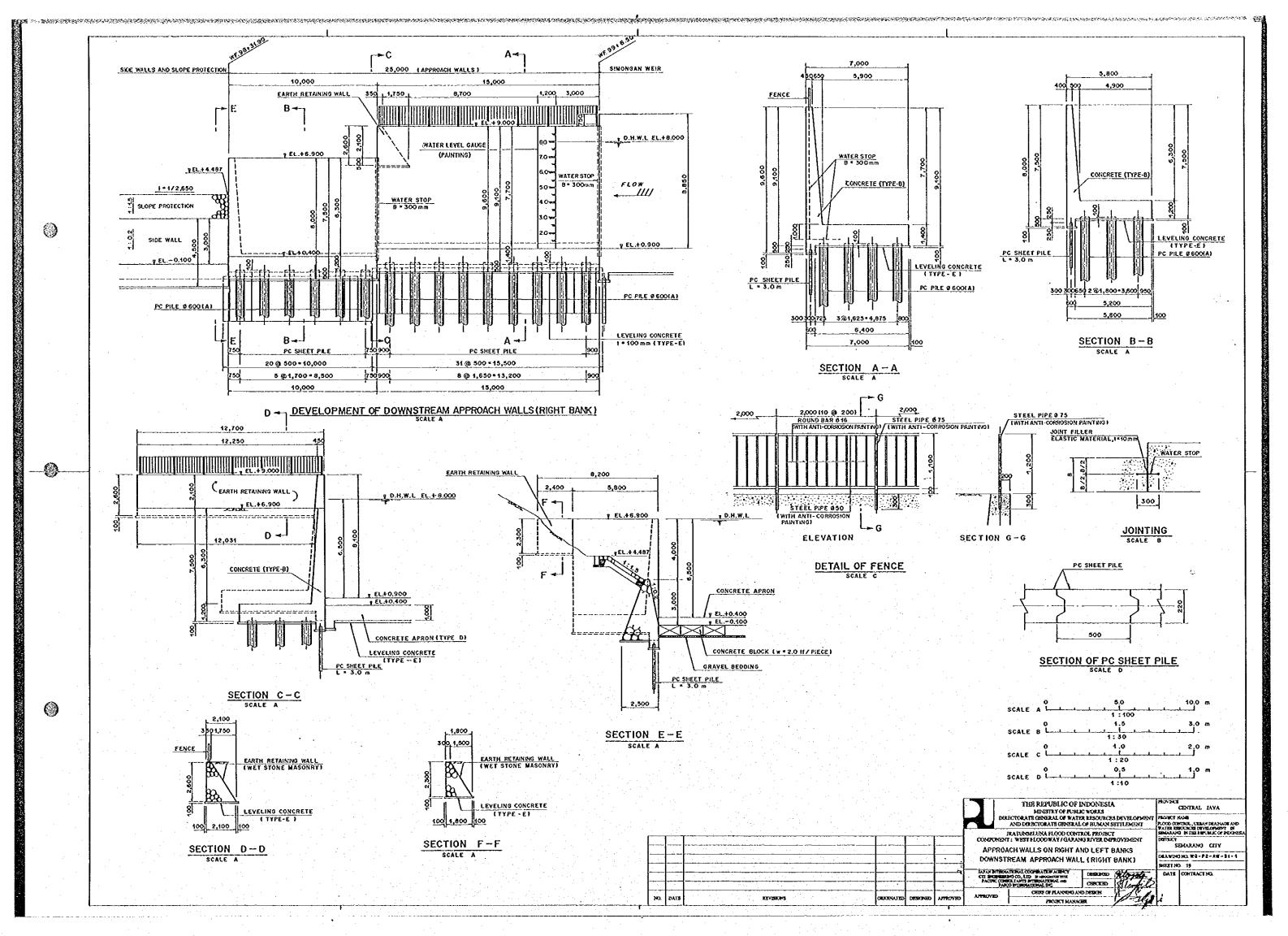
н	013	2,432		_	2,432	74	179,968	1.040	187.167	. 0	
H2	013	2.150			2,150	24	51,600	1.040	53.664	<u> </u>	
H3	013	2.291	-		2,291	24	54,984	1.040	57.183		
H4	013	2,503	-		2.503	49	122,647	1.049	127.553	0	
Н5	013	1,442	_		1,442	49	70,653	1.040	73.484	0	
Н6	013	1,725	_	-	1,725	49	84.525	1.040	87.906	<u>.</u>	4
Н7	013	2,203	+	-	2.203	44	96,932	1.040	100.809	0	100
148	013	2.352			2.362	44	103,928	1.040	103.085	_ 0	
Н3	013	1.725		-	1,725	44	75,900	1.040	78.936	0	
н10	013	1,867	-	-	1,867	44	82,148	1.040	85.434	<u> </u>	
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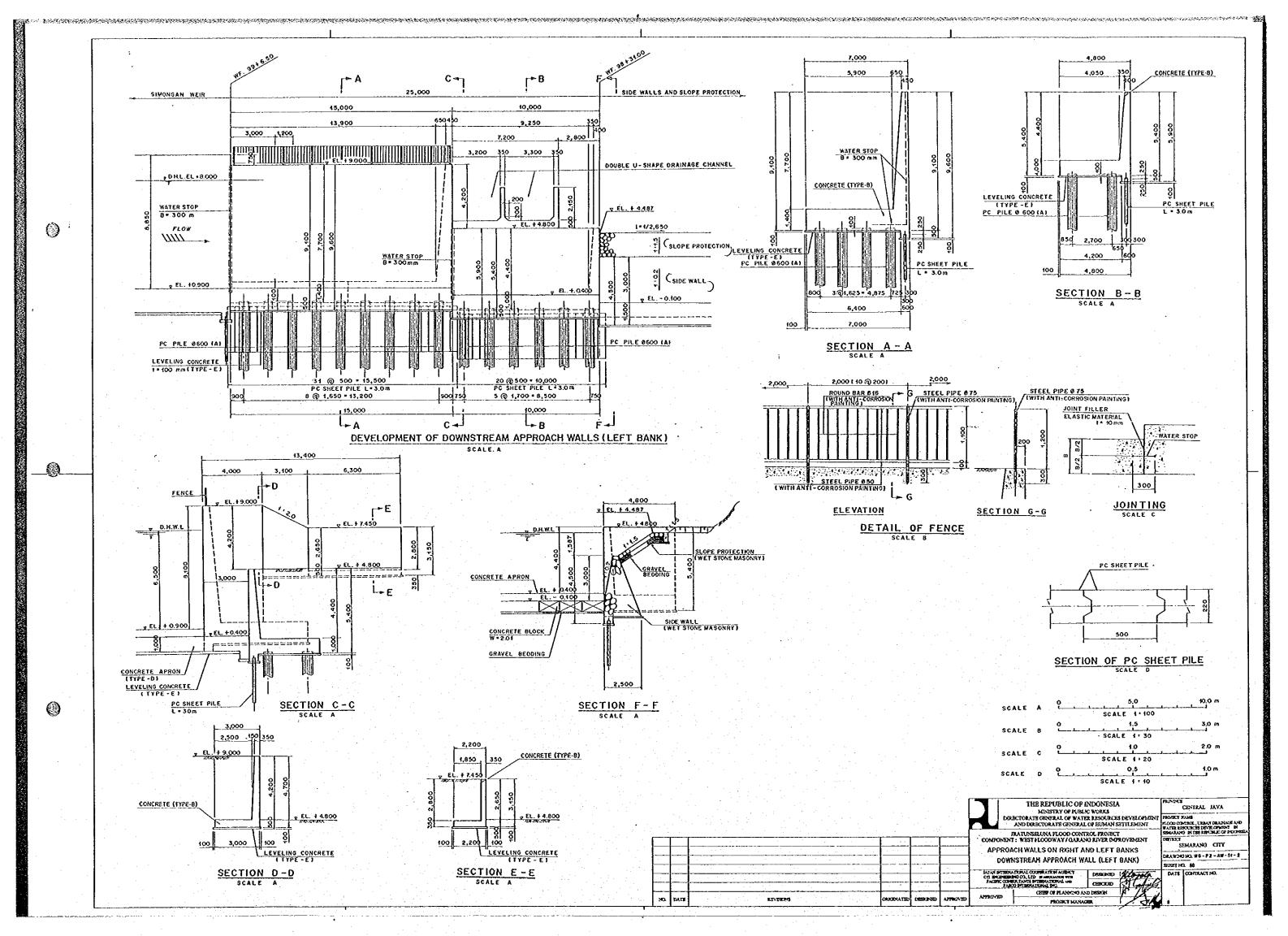
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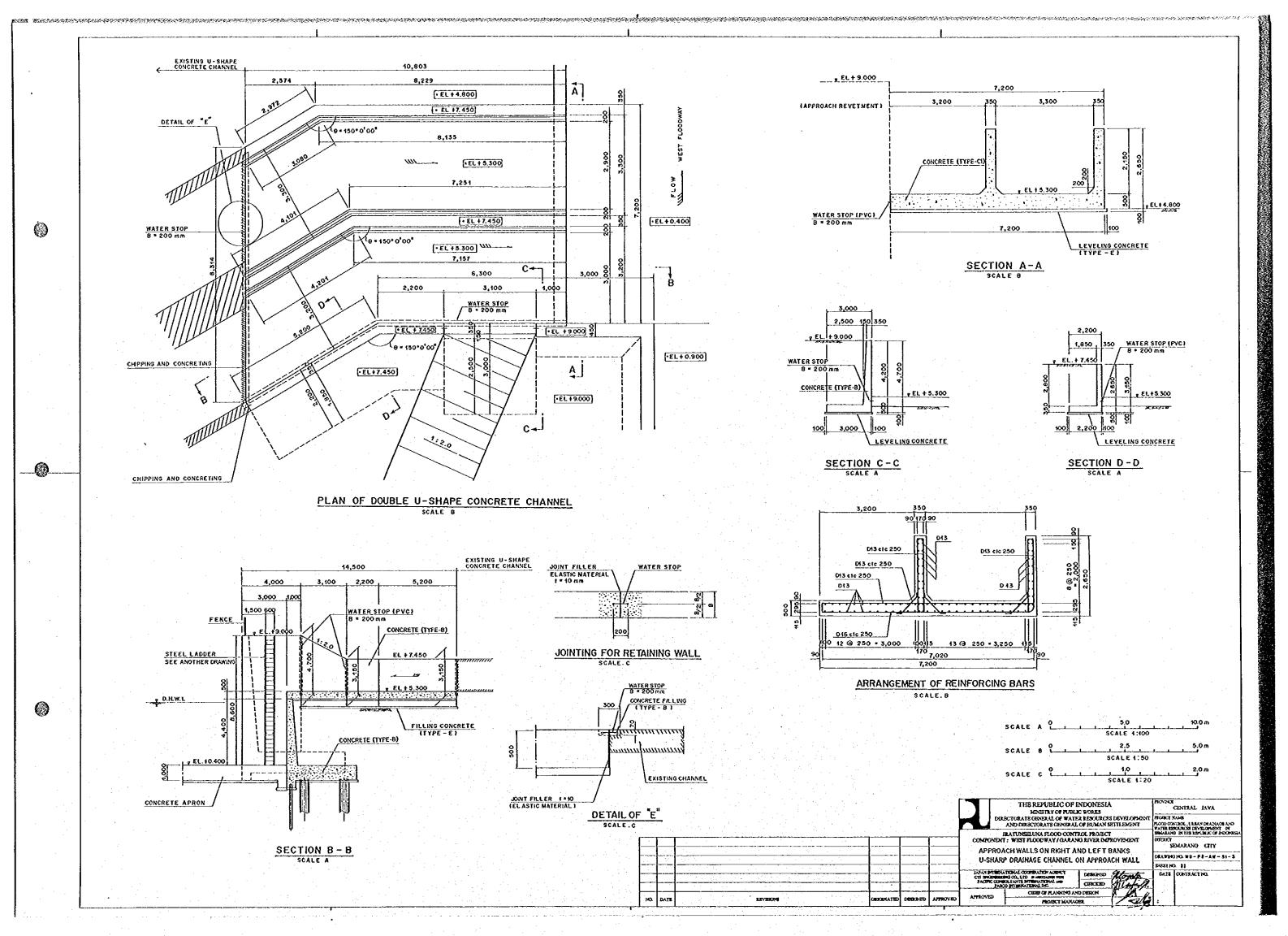
Central Jaya

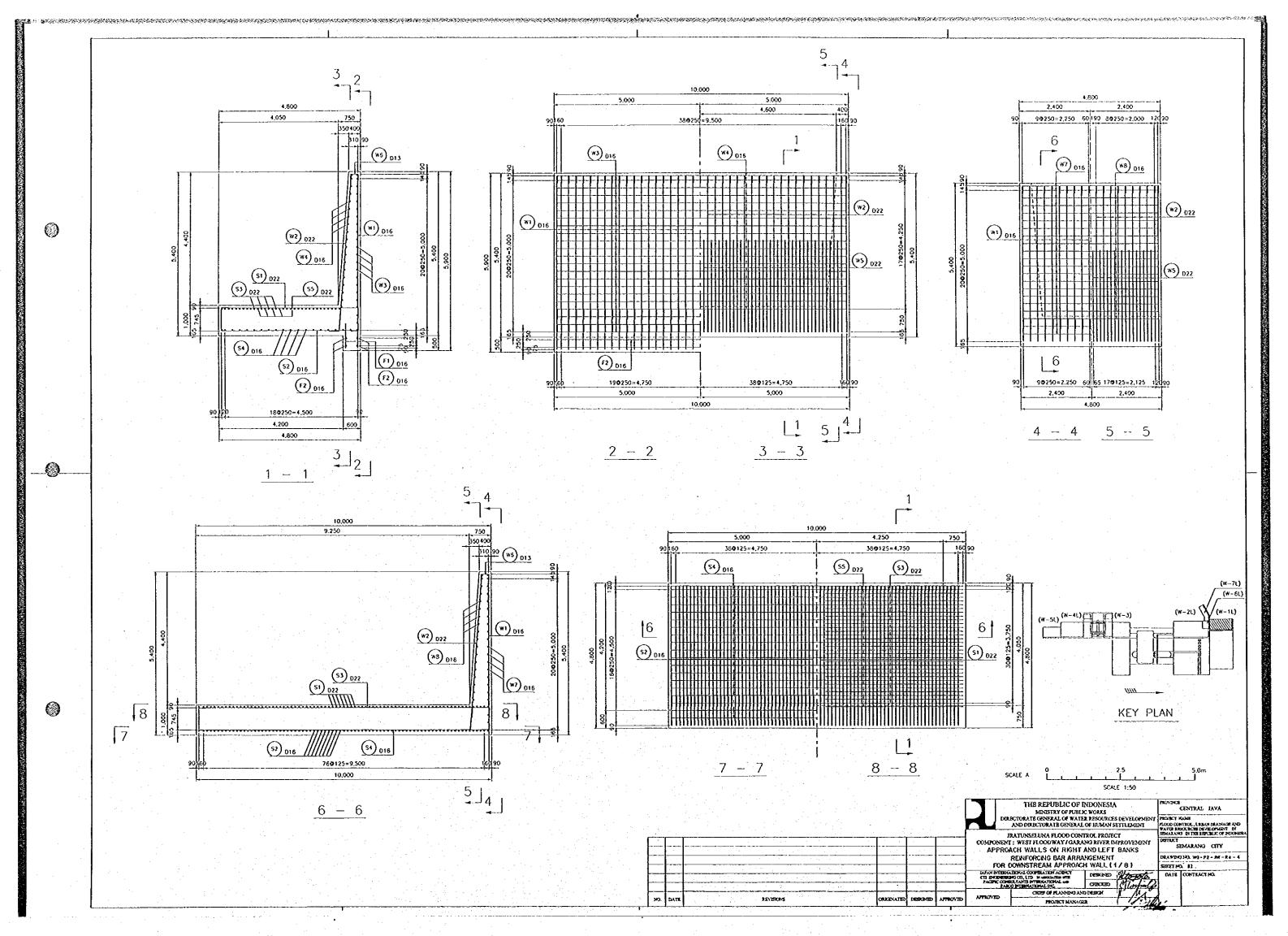
SEMULANO CITY 4/41 DEAWHATHO, WS-F2-15-PE-15

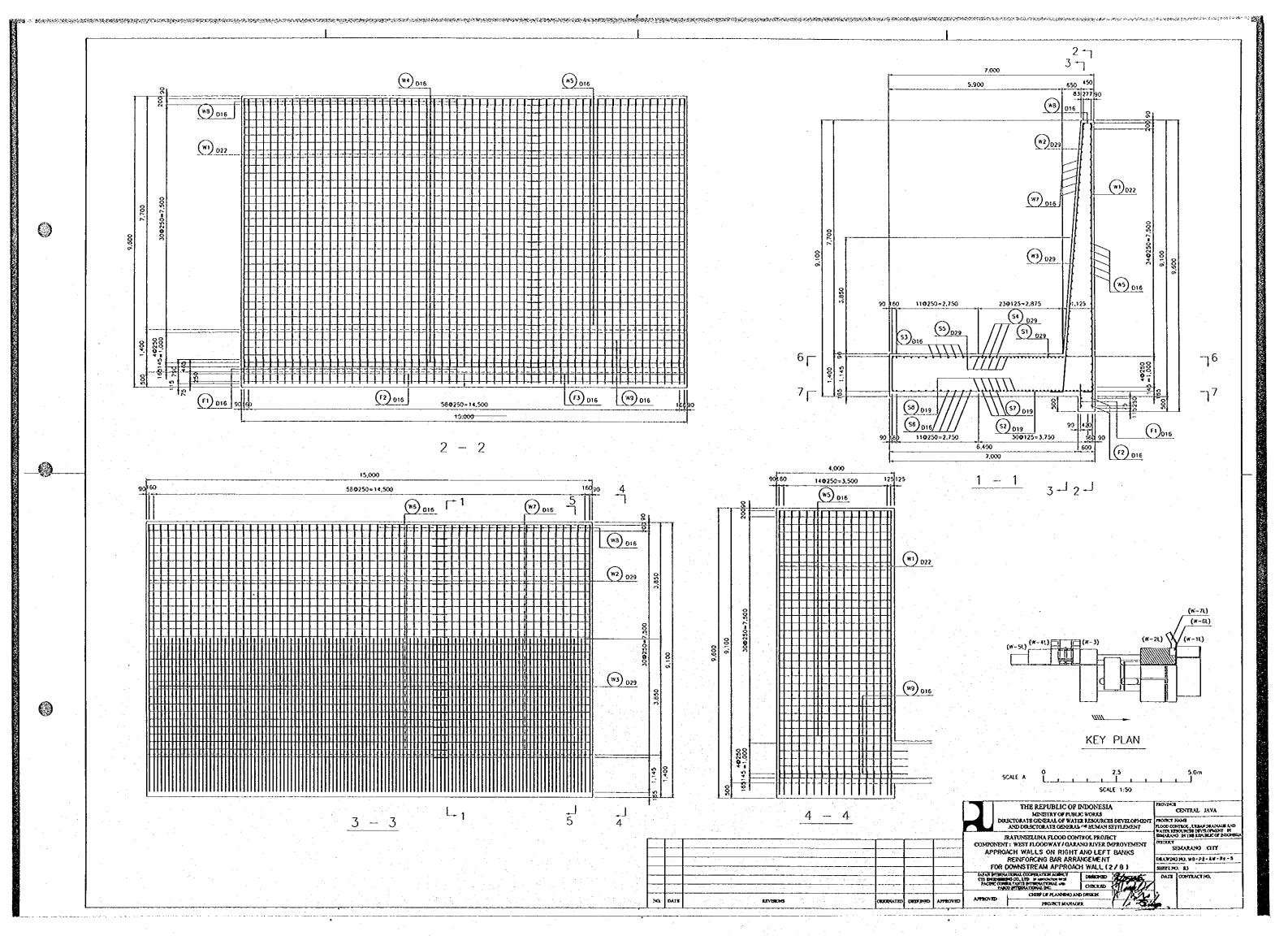
SPEZET NO. 78

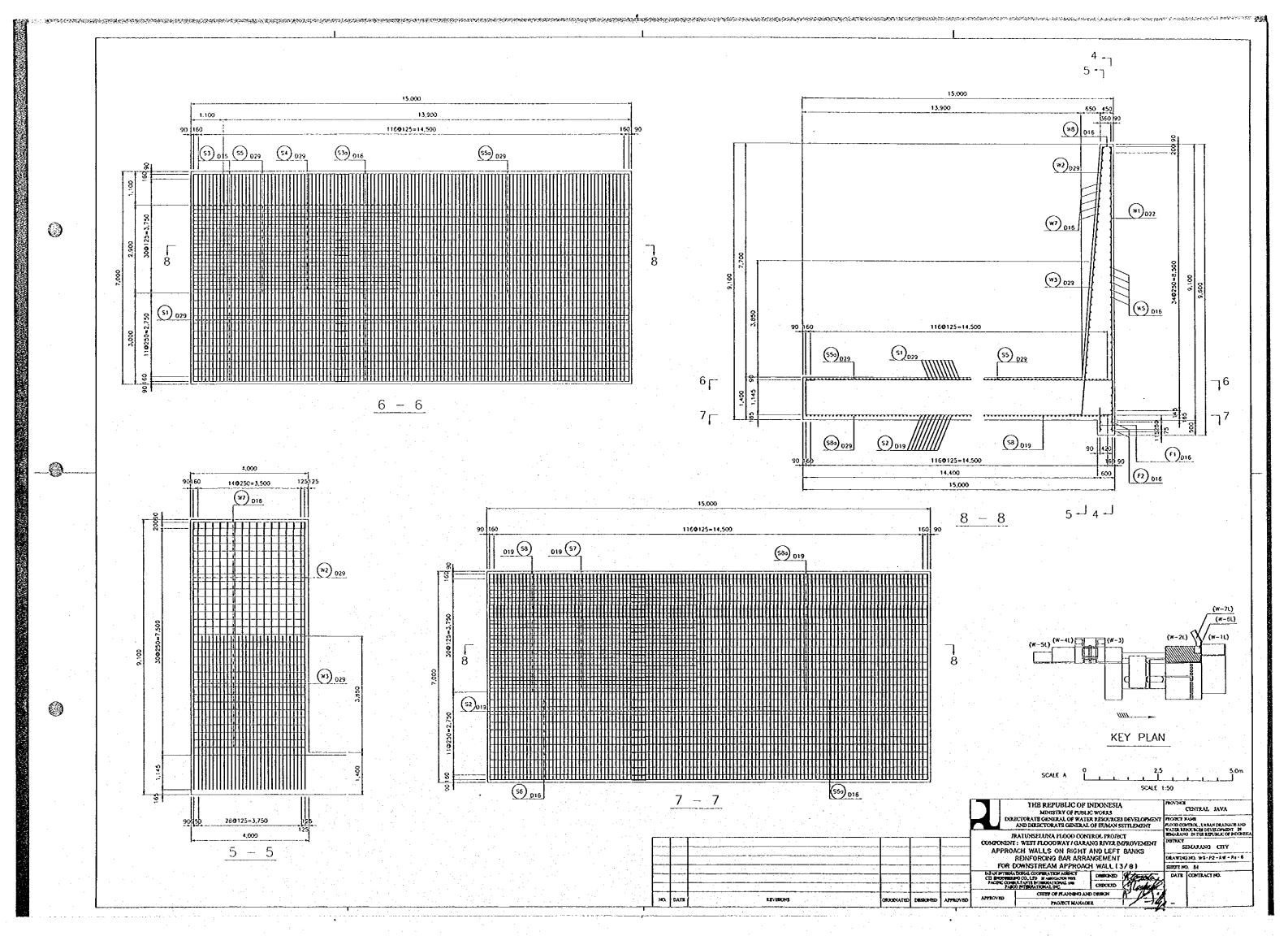


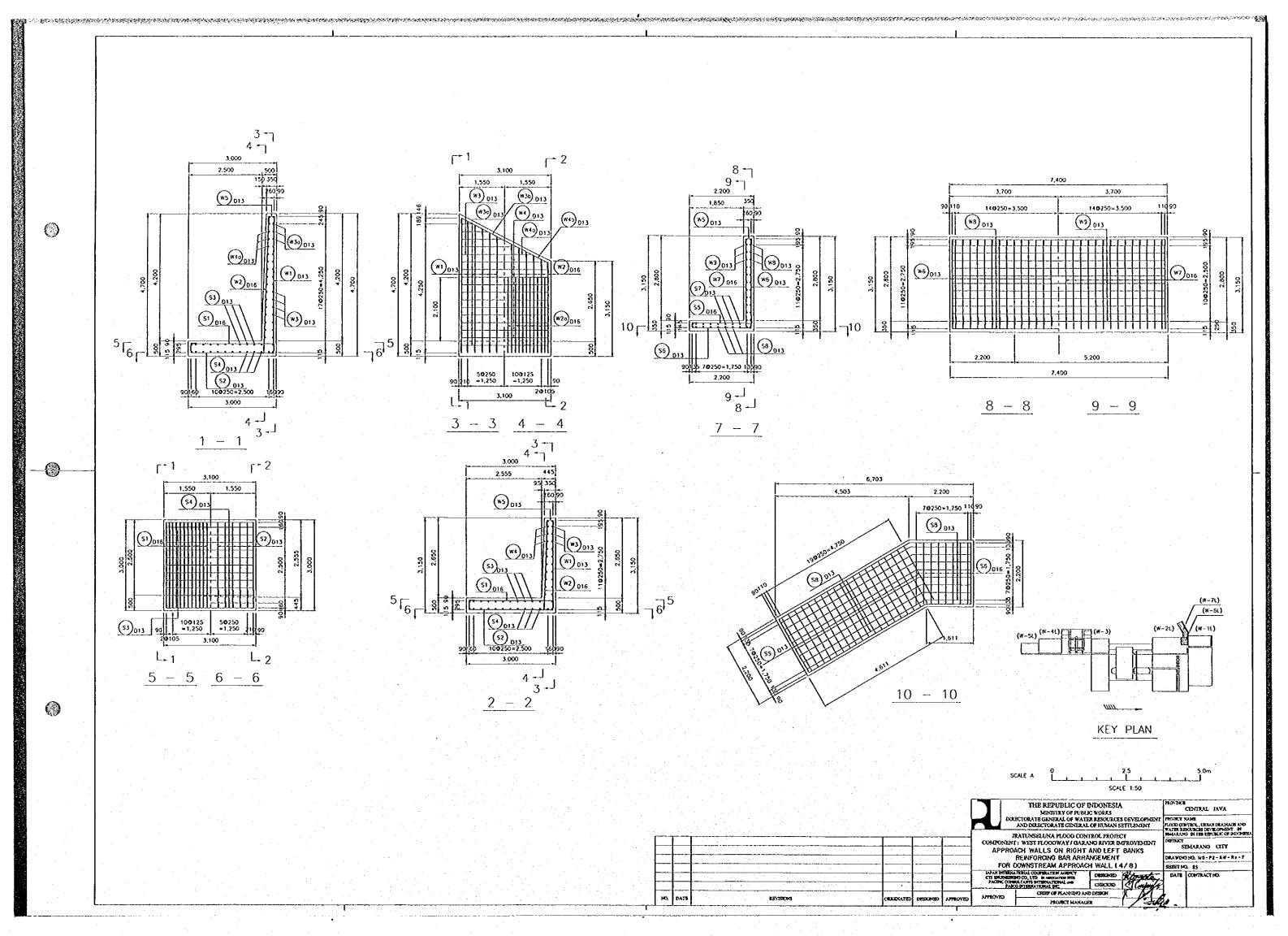


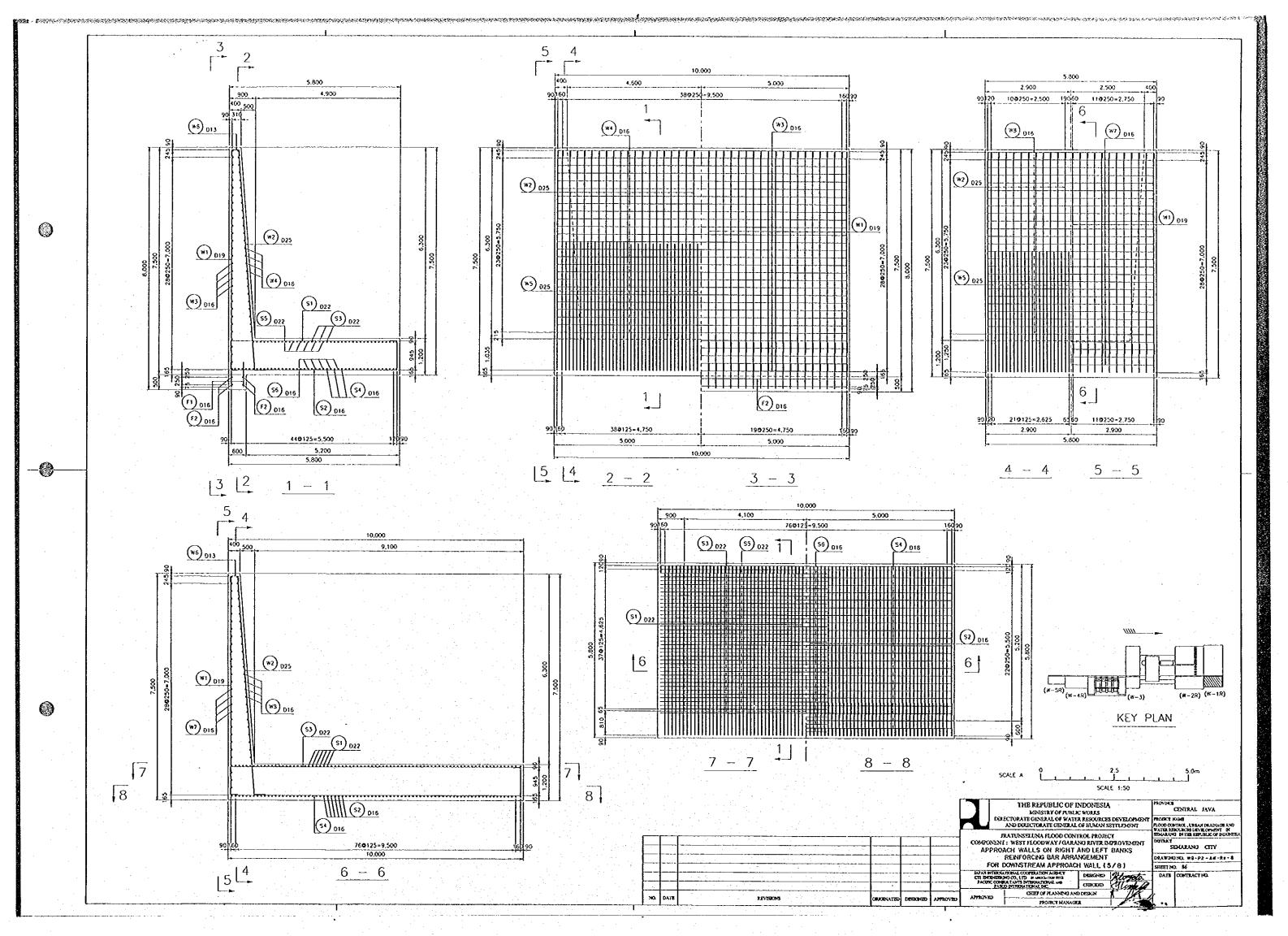


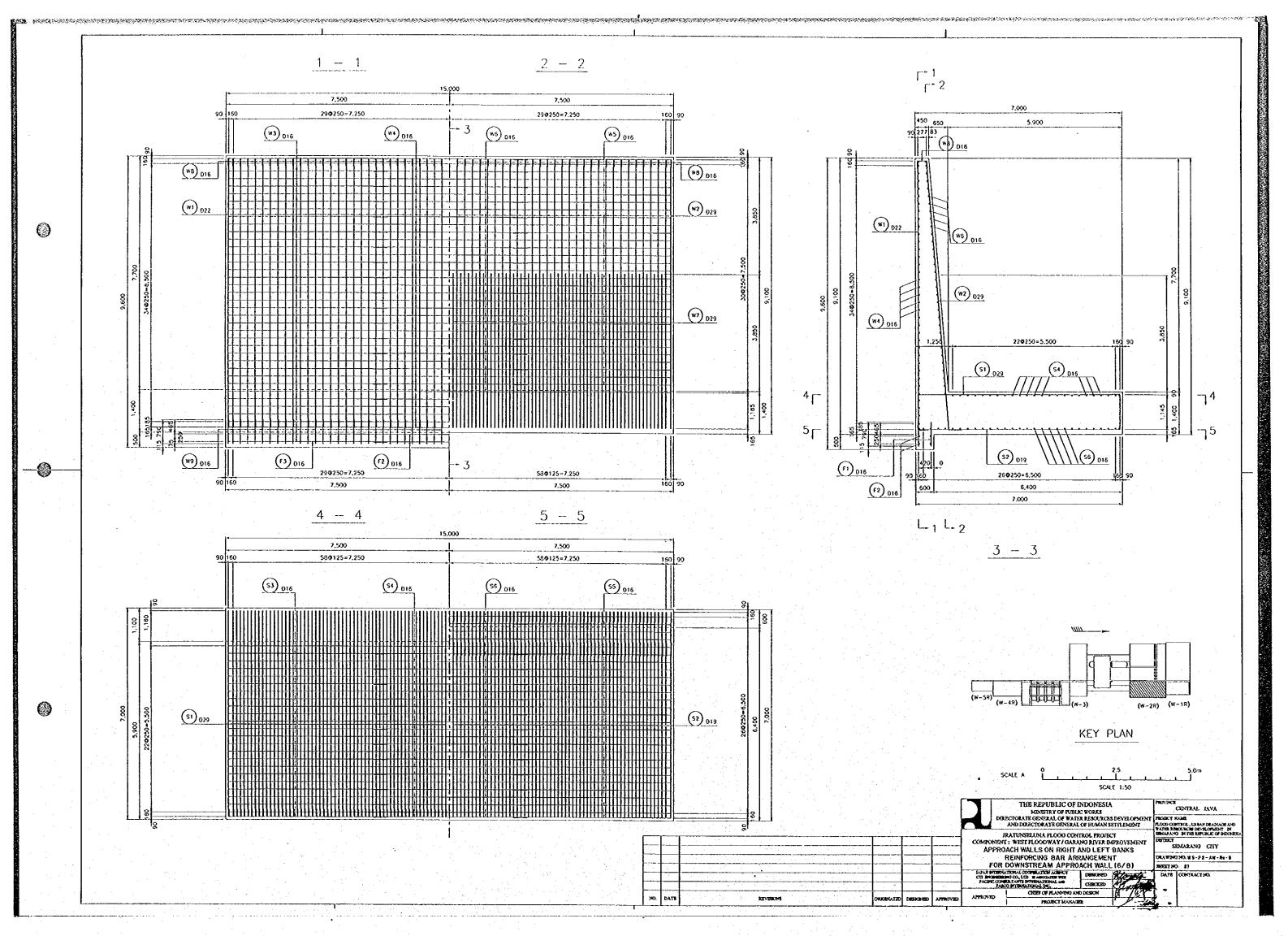












## BAR BENDING SCHEDULE

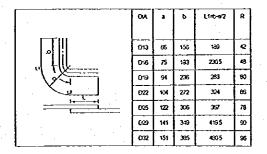
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SHAPE		1 1	
F-11-4		5 1 2	LI J
0	<b>②</b>	3	•

## BAR WEIGHT

	T)	YPE	SHAPE	ρΆ	NUMBER	LENGTH	LI	L2	1.3	L4	LS	R	TYPE	DiA	LENGTH	NUMBER	VÆGHT	VEGHT	VÆKHT	SHAPE
	l ''	'' - I				(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)	(mm)			PER BAR (kg)	(k.3)	
		W1		16	60	5,410	5,135	278	(1111)	Vy	1		Wi	16	5,410		156	8.44	50638	~ <del>~~~</del>
	-		2							<del> </del>			W2	22	5,530	60	304	1681	1008.67	
	<b>-</b>	MS	4	22	60	5,530	5,147	382		ļ										
	<b></b>	W3	1	16	22	9,820	9,820				ļ		W3	16	9,820	22	1.56	1532	337.02	
	V	W4	1	16	19	9,820	9,820			ļ			W4	16	9,820	19	156	1532	291.06	
	٧	W5	4	22	56	3,470	3,091	382		<u> </u>	L		W5	22	3,470	56	304	1055	59073	
	٧	W6	3	13	60	670	228	209	228				W5	13	670	60	1.04	0.70	4181	
	V	.77	2	16	21	4,890	4,510	278					W7	16	4,890	21	156	7.63	160.20	
	v	W8	2	16	19	4,890	4,510	278					wa	16	4,890	19	156	7.63	14494	1
	ļ									<del> </del>					,,200	<b> </b> -				
14/ 4						· · · · · · ·	4000			<b></b>			<u></u>		4000	ļ	204		4400.00	· <del>····</del>
W - 1		<b>S1</b>	2	22	78	4,990	4,606	382		ļ	ļ		\$1	22	4,990	- 78	304	15.17	118323	
		S2	3	16	79	5,510	4,610	725	278	ļ	ļ		S2	16	5,610	79	156	8.75	691.38	
		83	2	22	17	10,190	382	9,806					S3	22	10,190	17	304	3098	526 62	
		S4	3	16	19	10,510	9,810	725	278	1	·		S4	16	10,810	19	1.56	16.86	320.41	
		S5	2	22	15	4,730	4,450	278			1		85	22	4,730	15	304	14.38	215€9	
										i								1		
		F1	1	18	82	740	740			l	·		F1	16	740	82	156	1.15	94.56	
		F2	1	16	4	9,820	9,820			<del> </del>	<del> </del>		FZ	16	9,820	4	156	1532	6128	
						3,020	3,123			<b> </b>	<del> </del>			<u> </u>	3,54,5	Li	J	OTAL .	8,174.07	
							<b></b>	<u> </u>		<del> </del>		ļ	<del> </del>		<del> </del>	<del></del>	<del></del>		·,	· · · · · · · · · · · · · · · · · · ·
	<b>J</b>	1	l	الييا		ļ	<del></del>	<u></u>	ļ	<b> </b>	ļ	ļ	<b> </b>			<del> </del>		ļ <u></u> -		
		W1	2	22	77	9,210	8,831	382		<b></b> -	ļ	ļ	WI	22	9,210	77	304	2800	2155 58	
	_ y	W2	4	22	η	9,240	8,862	382	. '	<u> </u>	<u> </u>		M5	22	9240	77	304	2809	216290	
	V	W3	4	29	72	5,500	4,994	506		<u></u>	L		W3	29	5,500	72	5.19	28.55	2055 24	
	V	W4	1	16	35	10,000	10,000						₩ŧ	16	10,000	35	1.56	1560	546 00	
	· V	W5	2	16	31	9,070	5,290	3,775		· ·			W5	16	9,070	31	156	14.15	438.63	
	Ιv	W6	1	16	31	10,000	10,000						W6	16	10,000	31	1.56	1560	483.60	
		W7	2	16	31	9,070	5,290	3,775		<del> </del>			W7	16	9,070	31	1.56	14.15	438.63	· · · · · · · · · · · · · · · · · · ·
	<u> </u>	ws I		16	77	810	278	250	278	<del> </del>	<del> </del>		W8	16	810	77	1.56	126	97.30	
			3			·			210			ļ	W9		9,550	4	156	14.90	ļ	
	L	W9	2	16	4	9,550	5290	4255		<u> </u>			MA	16	9,530	····	156	14.90	5959	
											<u> </u>	L			<b> </b>		<u> </u>		·	
		\$1	2	29	119	7,310	6,801	506			<u> </u>		S1	29	7,310	119	5.19	37.94	4514.73	
		S2 [	3	19	119	8,260	6,807	1,119	332		L		85	19	8,260	119	2.25	18 59	221162	<u> </u>
W - 2		<b>S3</b>	2	16	13	5,570	5,290	278			1		S3	16	5,570	13	1.56	8.69	11296	
-		\$3a	1	16	13	10,000	10,000			l	1		S3a	16	10,000	13	1.56	1560	202.80	
		54	2	29	12	7,900	7,391	506			<del>                                     </del>	<b></b> -	\$4	29	7,900	12	5.19	4100	492.01	
		SS	2	29	15	5,790	5,281	506	<del> </del>	-	<del> </del>	<del></del>	55	29	5,790	16	5.19	30.05	480 80	
	<u> </u>	55a	1	29	16	10,000	10,000				╁		S5a	29	10,000	16	5.19	5190	830.40	
	1				!	<del></del>		4436	1720	<b> </b> -	<del> </del>		<b>!-</b>			12	1,56	12.81		
	<b>)</b>	S6	3	16	12	8,210	6,810	1,125	278	<u> </u>	<del> </del>		96	16	8,210	ļ	ļ	1	153 69	<u> </u>
	<u> </u>	95a	1	16	12	10,000	10,000					ļ	SSa	16	10,000	12	1.56	1550	18720	
		S7	2	19	15	7,730	7,397	335		ļ <u>.</u>	L		S7	19	7,730	15	2.25	17.39	260.39	
		S8	2	19	17	5,620	5,287	332			I		S8	19	5,520	17	2.25	1265	214.97	
4	S	58a	1	19	17	10,000	10,000					L	58a	19	10,000	17	225	22 50	38250	
					i			l		T	1									
	T	FI	1	16	122	740	740	i	l	1		l	Fi	16	740	122	1.56	1.15	14084	
•		F2	1	16	4	10,000	10,000	<b></b>	<b></b>	<b> </b>	1	1	F2	16	10,000	4	1.56	15 60	6240	
		F3	1	16	4	9,970	5,290	3,775	l	<del>                                     </del>	<del> </del>	<del> </del>	F3	16	9,070	4	1.56	14.15	56 60	
		<u> </u>		<del> ~</del>	<del> </del>		- <u>~~</u> -	<del> </del>	<b> </b> -	<del> </del>	<del> </del>	·	<del>   </del>			<u> </u>		TOTAL	13,742.15	
···	<b> </b> -				<del> </del>	<del> </del>	<del></del>	<del></del> -		-	<del> </del>		<del>                                     </del>					T	1 .52	····
	, J.,	<u> </u>			ļ <u>.                                </u>		<b> </b>		<b> </b>	<u> </u>	<del> </del>	<b> </b>	<del></del> -			<del> </del>	304	H	1	
		W1	2	22	39	8,510	5,231	382	<b>_</b>		<b></b> _	<u> </u>	WI	22	8,610	39	304	26 17	1020.80	<u></u>
	· -	W2	4	29	39	8,770	8,260	506		1	<b></b>		M3	29	8,770	39	5.19	45.52	1775.14	
		W3	4	29	36	5,240	4,735	506		<u> </u>	<u> </u>		W3	29	5,240	36	5.19	27.20	979.04	
	T.	W4	1	16	34	9,320	9,320		L	1			W4	16	9,320	34	156	14.54	494 33	
•	T	W5	1	16	29	9,320	9,320	l	Ι	l			W5	16	9,320	29	1.56	1454	421.64	- <del> </del>
	17	WS	3	16	39	820	278	266	278	T	1	1	W6	16	820	39	1.56	128	49.89	
					<b> </b>	1	l	<b> </b>		<del>                                     </del>	1				1	†	1	T		
W - 4	<b>↓</b>	F1	1	16	78	790	790	<del></del>		1	1	t	Fi	16	790	78	156	123	96.13	
44 5	-	1			<del> </del>	<b>+</b>		<del> </del> -	<del></del>			<del> </del>	F2	15	9,320	1	1.56	14.54	58.16	
44 4	L	F2	- 1	16	- 4	9,320	9,320	ļ		<del> </del>	<del> </del>	<del> </del>		<del>                                     </del>		<del></del>		<del> </del>		
AA		]		اا		ļ <u> </u>		ļ	<b></b>	ļ	<b></b>	ļ		<b> </b>	ļ <u>.</u>	ļ <u></u>	·	l	l	· · · · · · · · · · · · · · · · · · ·
44 el		\$1	3	25	75	5,740	436	6,303			ļ	<u> </u>	S1	25	6,740	75	3,98	26 83	2011.89	<u> </u>
44 el	J				75	7,560	332	1,019	6,307	<u></u>		1	S2	19	7,660	75	225	17.24	1292.63	
γγ — q	J	22 23	3	19		1									1 0000	22	1.56	14.54	34000	
¥¥ 4			3	16	22	9,320	9,320		<u> </u>		1	l	53	16	9,320		1.00	11.34	319.86	
¥¥ — 4		SZ			L	·	9,320 9,320		<u> </u>		<del> </del> -		53 \$4	16	9,320	26	1.56	14.54	37802	
44 <u>-−</u> el		S2 S3	1	16	22	9,320	<del></del>							<del>}</del>		<del> </del>	1.56	<del></del>	<del></del>	

BAR BENDING DETAIL



THE REPUBLIC OF INDONESIA
MINITAY OF PUBLIC WORKS
DURCTURATE GENERAL OF WATER RESOURCES DEVELOPMENT
AND DOLECTORATE GENERAL OF HUMAN SETTLEMENT RATUNSPLUNA PLOCO CONTROL PROJECT
COMPONENT: WEST PLOCOWAY/ GARANO RIVER BOPROVEMENT
APPROACH WALLS ON RIGHT AND LEFT BANKS
REINFORCING BAR ARRANGEMENT
FOR DOWNSTREAM APPROACH WALL (17/8)
LIAM PRINAVANCE COMPATIEN CONTR

SEMARANO CITY

DRAWING NO. W# - P2 - AW - Re - 10 SAMET HO. SE DATE CONTRACT NO.

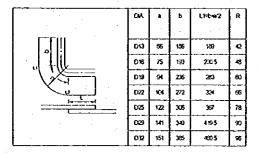
## BAR BENDING SCHEDULE

SHAPE	de	-tı ıtı	
<del>[[1[</del>	<u> </u>	-   - 12 - 1 F	THA!
•	0	<b>③</b>	•

### BAR WEIGHT

												<del></del>					r <del></del> ,		
	IYPE	SHAPE	DA	NUMBER	LENGTH	เเ	12	13	L4	1.5	R	TYPE	: I	LENGTH	NUMBER	WEIGHT	WEIGHT	WEIGHT	SHAPE
. <u>L</u>					(mm)	(mm)	(rsm)	(m/m)	(mm)	(mm)	(mm)		(mm)	(mm)		PER 'M' (kg)	PER "BAR" (kg)	(kg)	
. <b>.</b>	WI	2	19	64	7,560	7,232	332					WI	19	7,560	64	2.25	17.01	1,088.64	J
<u>L</u>	W2	4	25	64	7,690	7,251	436			L		W2	25	7,690	64	398	3061	1,958 80	
L.	W3	1	16	30	9,820	9,820						W3	16	9,820	30	1.56	1532	45958	
L	W4	1	16	25	10,470	9,820	650					W4	16	10,470	25	1.56	16 33	408.33	
	W5	4	25	60	4,600	4,158	436					W5	25	4,600	60	3.98	-18.31	1,098.48	
	W6	3	13	64	670	228	209	228				W6	13	670	64	1.04	0.70	4460	
	W7	2	16	29	5,890	5,610	278					W7	16	5,890	29	1.56	9.19	266.46	
	W8	2	16	25	5,890	5,610	278					W8	16	5,890	25	1.56	9.19	22971	
W 40 F																			
W 1R  -	SI	2	22	78	5,990	5,606	382					S1	22	5,990	78	3.04	1821	1,420.35	<del>[</del>
ſ	52	3	16	79	6,810	5,610	925	278				S2	16	8.810	79	1.56	1062	839.26	
. [	53	2	22	21	10,190	382	9,806					S3	22	10,190	21	3.04	30.98	65053	
ļ-	54	3	16	23	11,010	9,810	925	278				\$4	16	11,010	23	1.56	17.18	395,04	
1	\$5	2	22	19	5,960	5,596	382		_			\$5	22	5,980	19	3.04	18.18	345.40	
Ĭ .	\$ŝ	3	15	22	5,630	5,600	278					\$6	15	5,880	22	1.56	9.17	201.80	<del>                                     </del>
i <sup>-</sup>																			
Ī	F1	1	16	82	740	740						F1	15	740	82	1.56	1.15	94.66	
ľ	FZ	1	16	4	9,820	9,820						F2	16	9,820	4	1.56	15.32	6128	<del> </del>
Ī																	OTAL	9.562.92	
	****						***********					<del></del>					· · · · · · · · · · · · · · · · · · ·		<del> </del>
ľ	WI	2	22	61	9,210	8,831	382					W1	22	9,210	61	3.04	28.00	1,707.90	<del>                                     </del>
·	Y/2	4	29	61	9,360	8,658	506					W2	29	9,360	61	5.19	48.58	2,963.28	
Ī	W3	1	16	41	5,300	5,300						W3	16	5,300	41	1.56	8.27	338.99	
	W4	1	16	41	10,650	10,000	650			~		W4	15	10.650	41	1.58	1661	681,17	
	W5	1	16	36	5,300	5,300						W5	16	5,300	36	1.56	827	297.65	ļ
Ī	W6	1	16	36	10,510	10,000	506					W6	16	10,510	36	1.56	16.40	59024	
1	W7	4	29	58	4,320	3,810	506					W7	29	4,320	58	5.19	22.42	1,300.41	
	W8	3	16	61	810	278	257	278				W8	16	810	61	1.56	126	77.08	<del></del>
W − 2R [			一								-					· ·			
	S1	2	29	119	7,640	6,801	506	332				Ş1	29	7,640	119	5.19	39.55	4,71854	1
· · · · · · · · · · · · · · · · · · ·	S2	3	19	119	7,770	6,207	1,125	436				\$2	19	7,770	119	2.25	17.48	2,060.42	
Ī	\$3	2	16	24	5,980	633	5,290					\$3	16	5,980	24	1.56	9.33	223 89	1
	S4	3	16	24	10,650	9,990	693					\$4	16	10,580	24	1.56	16.66	399.86	<del></del>
T	S5	2	16	29	5,980	693	5,290					\$5	16	5,980	29	1.56	933	270.54	1
f	\$8	2	16	29	10,680	9,990	693					\$6	16	10,580	29	1.56	1666	483.16	1
				*							-								
	F1	1	16	122	740	740						Fi	16	740	122	1.56	1.15	140.84	
	F2	1	16	4	5,300	5,300						F2	16	5,300	4	1.56	827	33.07	
· · ·		1	16	4	1,000	1,000						F3	16	1,000	4	1.56	1.56	6.24	<del></del>
	F3	• 1			1,000														
· • •	F3			· · · · · · · · · · · · · · · · · · ·	- 1,000										<del></del>	L	OTAL	16,313.28	<del> </del>

# BAR BENDING DETAIL



THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

AND DIRECTIONATE GENERAL PROPERTY STATEMENT

PRATURSELUNA FLOOD CONTROL PROPERTY

COMPONENT: WEST FLOCOWAY / GARANG RIVER INFROVEMENT

APPROACH WALLS ON RIGHT AND LEFT BANKS

REINFORCING BAR ARRANGEMENT

FOR DOWNSTREAM APPROACH WALL (18/8)

REINFORCEMENT COMPRISED HORSE

TO BECKER OF THE MICHAEL OF THE COMPRISED CONTROL OF THE COMPRISED CONTROL

SEMARANO CITY

