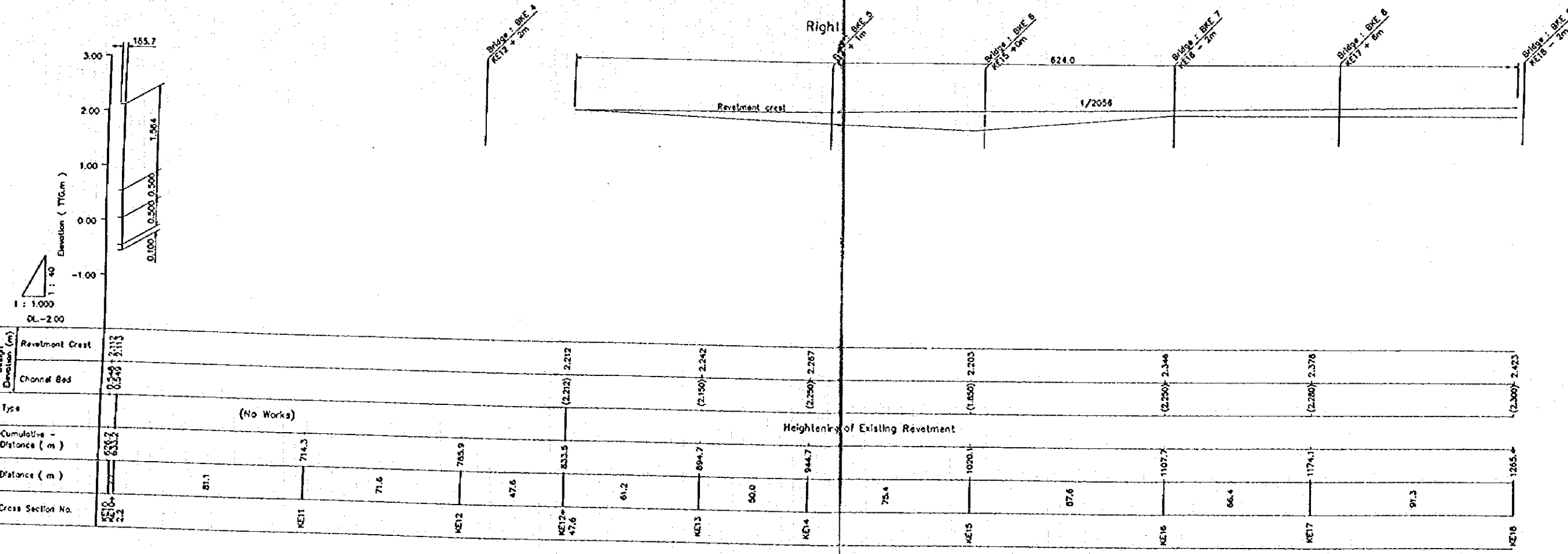
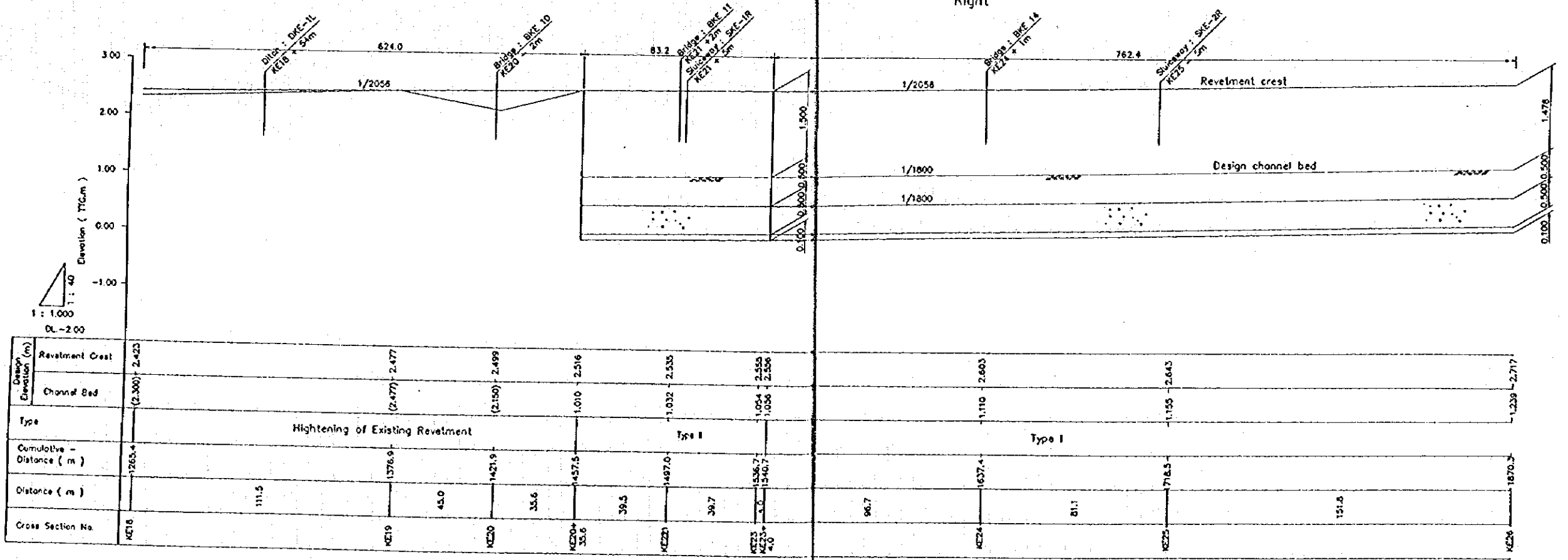
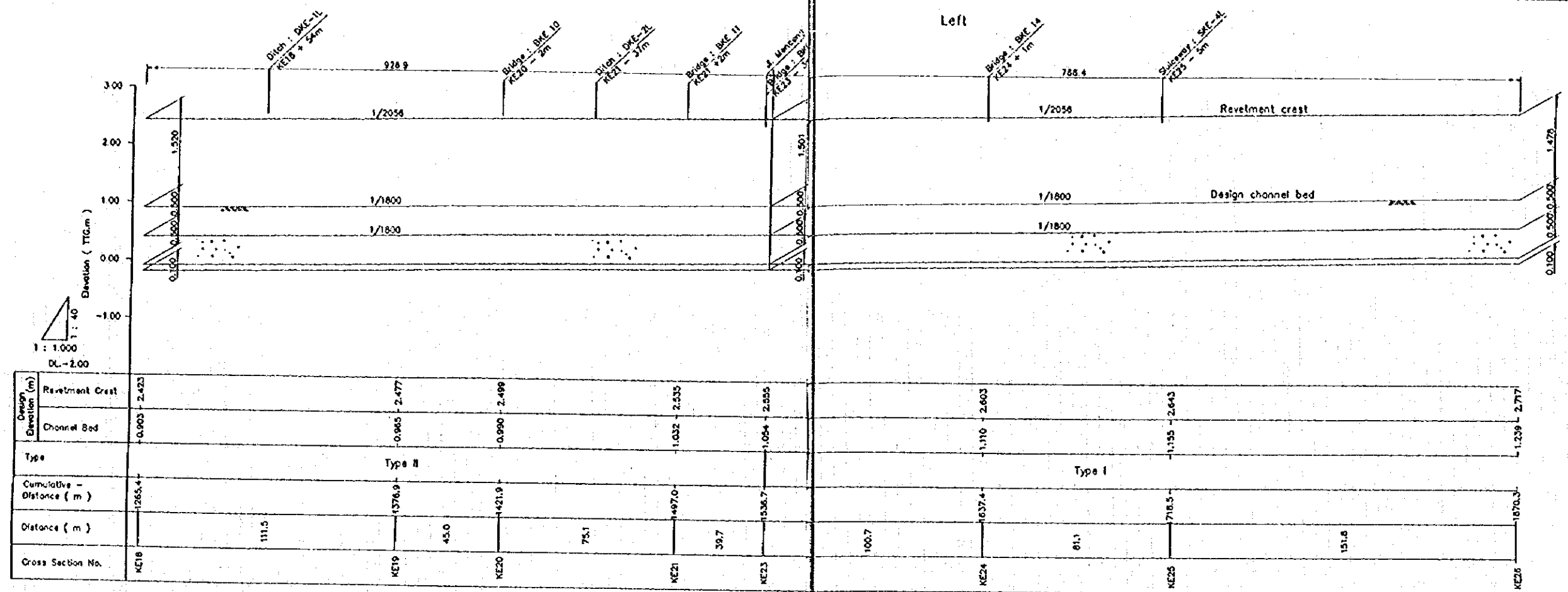


Design Elevation (m)	Revetment Crest	2.112	2.153	2.189	2.242	2.267	2.203	2.346	2.376	2.423
Channel Bed	0.546	0.597	0.637	0.697	0.725	0.767	0.815	0.852	0.903	0.903
Type					Type II					
Cumulative Distance (m)	626.2	714.3	765.9	894.7	944.7	1020.1	1107.7	1174.1	1265.4	1265.4
Distance (m)		88.1	71.6	100.6	50.0	75.4	87.6	86.4	91.3	
Cross Section No.	KE10	KE11	KE12	KE13	KE14	KE15	KE16	KE17	KE18	

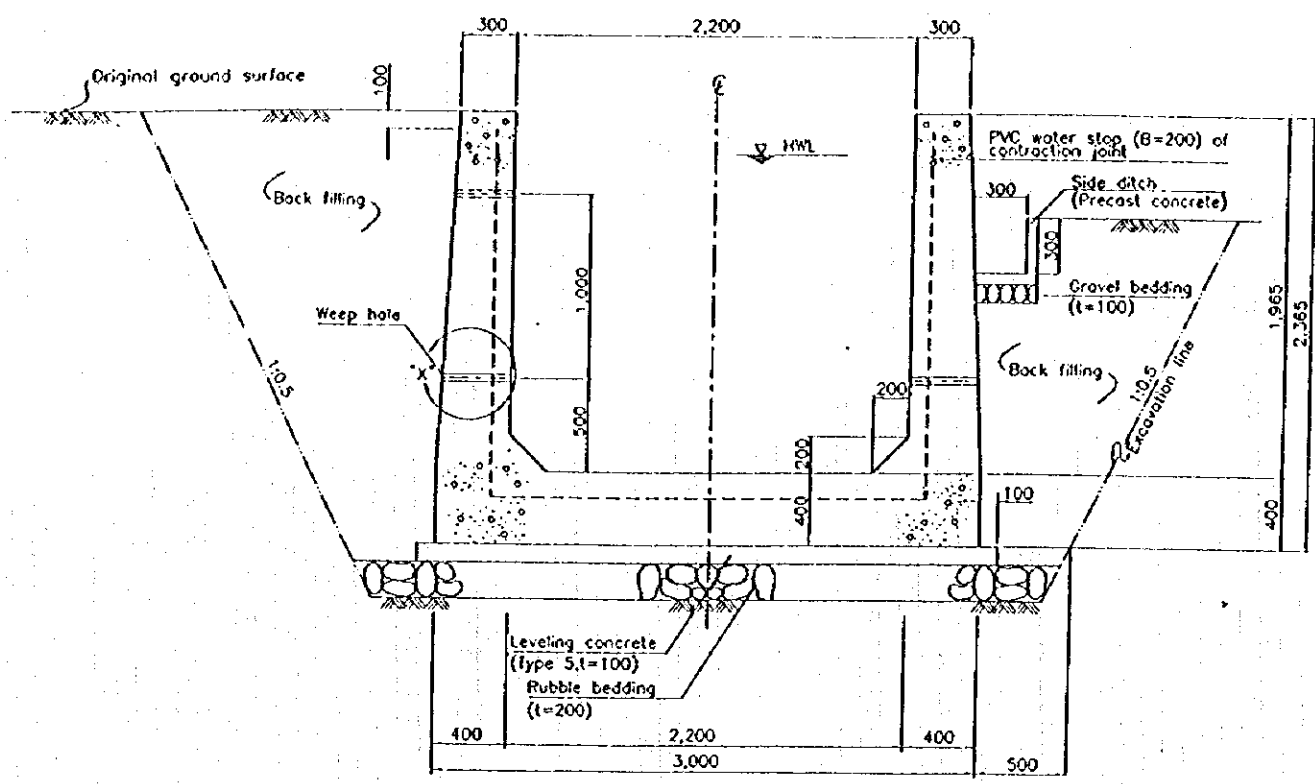


Design Elevation (m)	Revetment Crest	2.113	2.212	2.242	2.267	2.203	2.346	2.376	2.423	
Channel Bed	0.546	0.597	0.637	0.697	0.725	0.767	0.815	0.852	0.903	
Type	(No Works)									
Cumulative Distance (m)	626.2	714.3	765.9	833.5	894.7	944.7	1020.1	1107.7	1174.1	1265.4
Distance (m)		88.1	71.6	47.6	61.2	50.0	75.4	87.6	66.4	91.3
Cross Section No.	KE10	KE11	KE12	KE12*	KE13	KE14	KE15	KE16	KE17	KE18
	2.2			47.6						

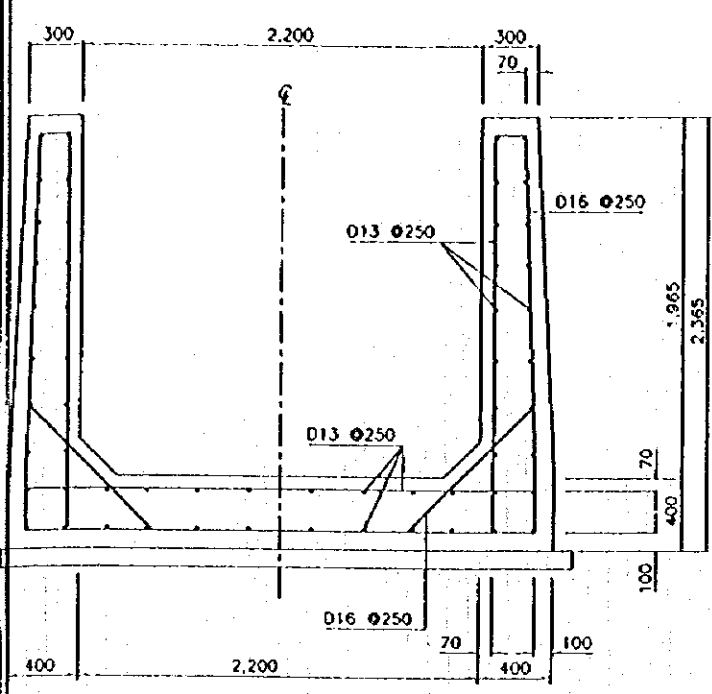
PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT BY THE CITY OF JAKARTA	TITLE OF DRAWING	CHANNEL STRUCTURES, REVETMENT, PROFILE, KANAL DRAINAGE CHANNEL (BRANCH) (2/4)	APPROVED
CHECKED			DWG NO.		DATE
SUBMITTED			J-20-30-202		
DATE					
REFERENCE	DWG NO.				



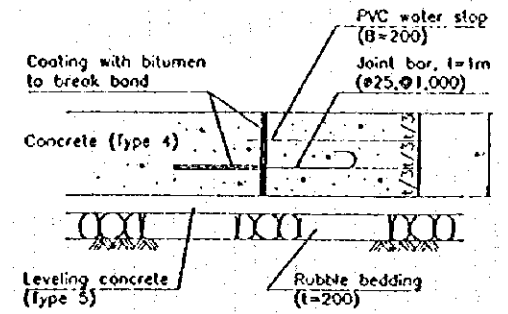
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING CHANNEL STRUCTURES, REVETMENT, PROFILE, KAWAL DRAINAGE CHANNEL (BRANCH) (3/4)	APPROVED
CHECKED.....		DWG NO.	DATE
SUBMITTED.....		J-20-30-203	
DATE.....			
REFERENCE	OWG NO.		



TYPICAL CROSS SECTION

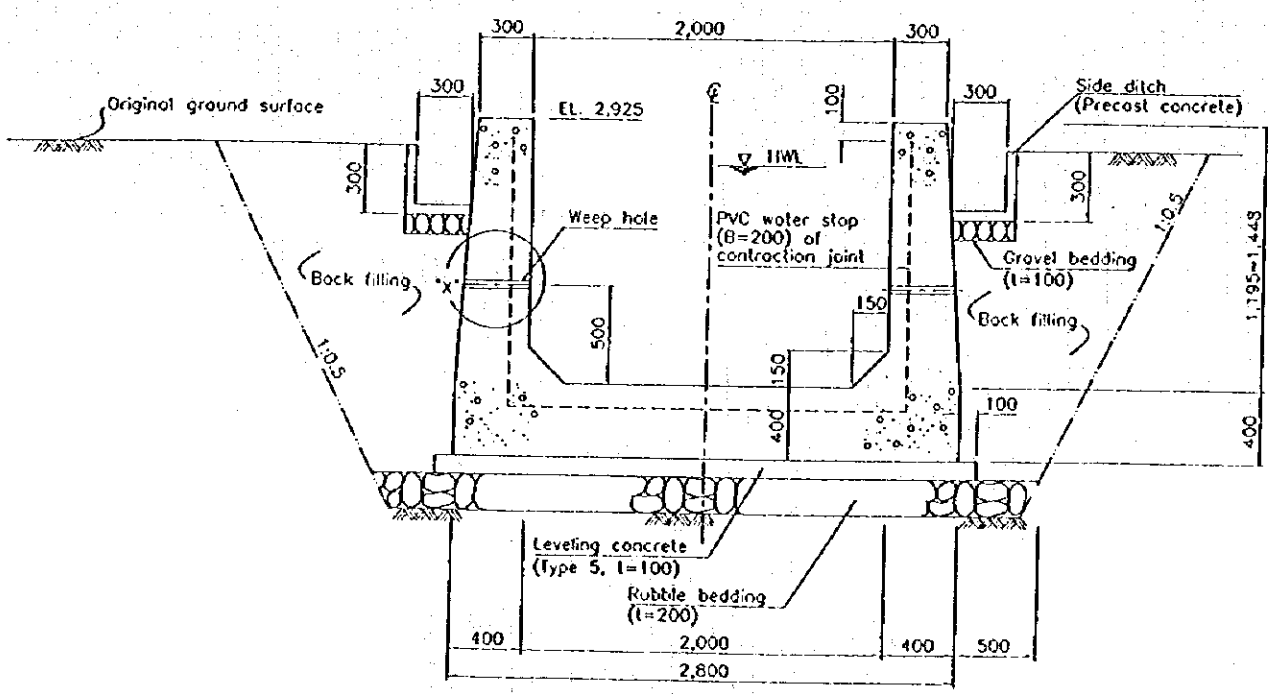


REINFORCING BAR ARRANGEMENT

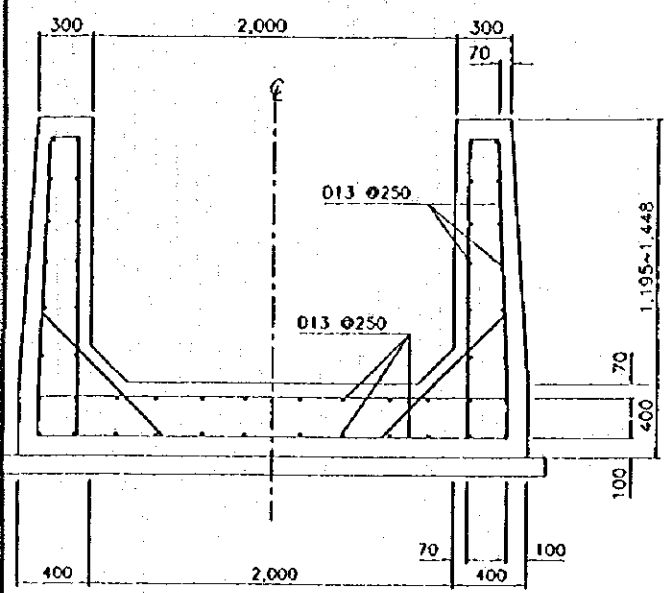


CONTRACTION JOINT

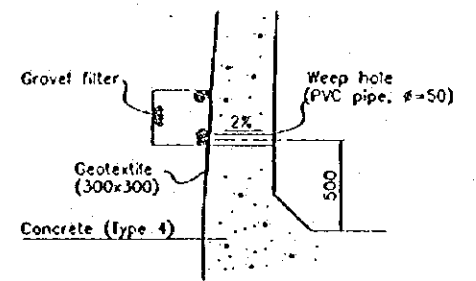
PIK JUNCTION DRAINAGE CHANEL



TYPICAL CROSS SECTION

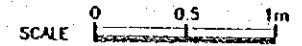


REINFORCING BAR ARRANGEMENT

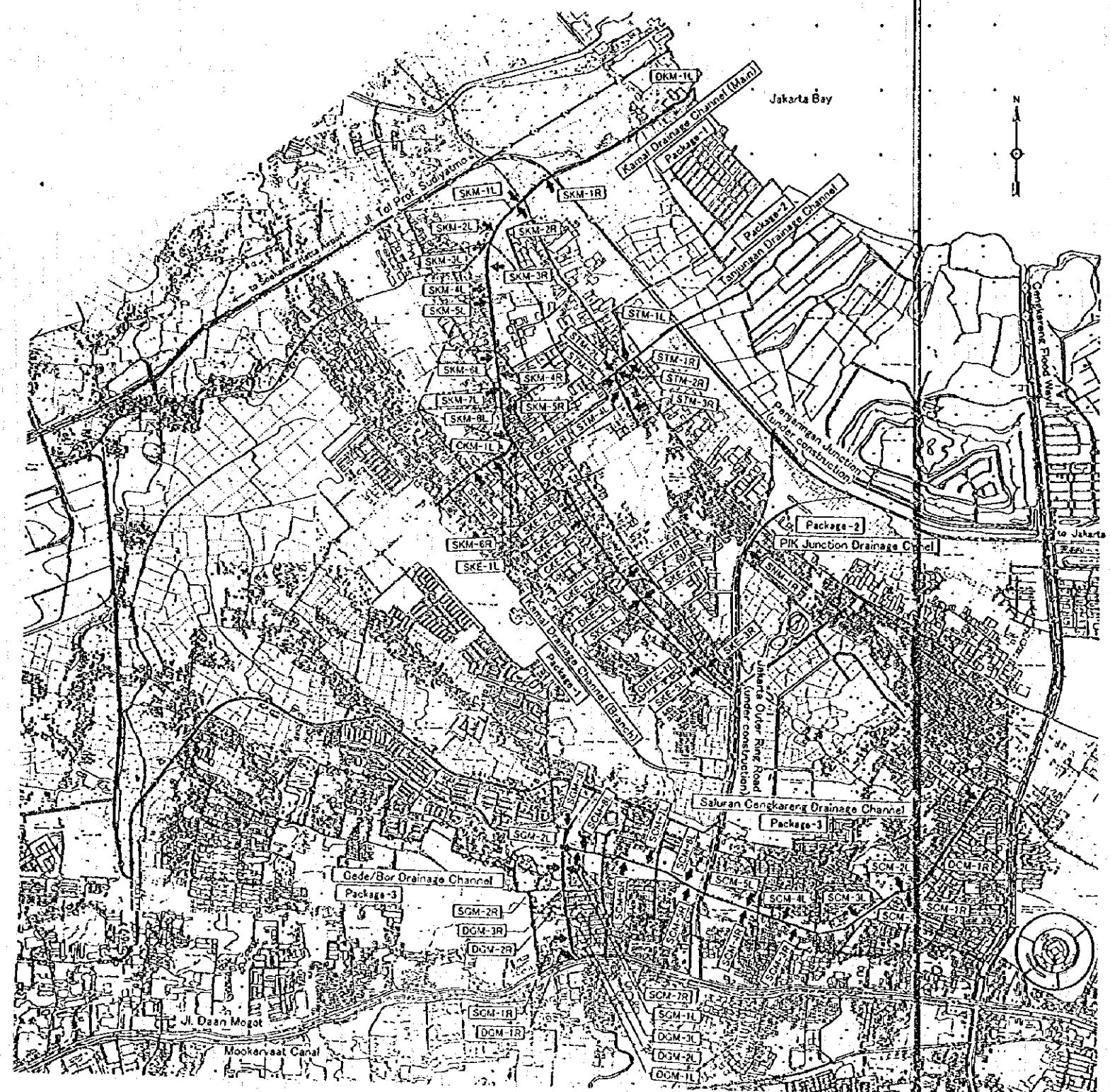


DETAIL 'X'

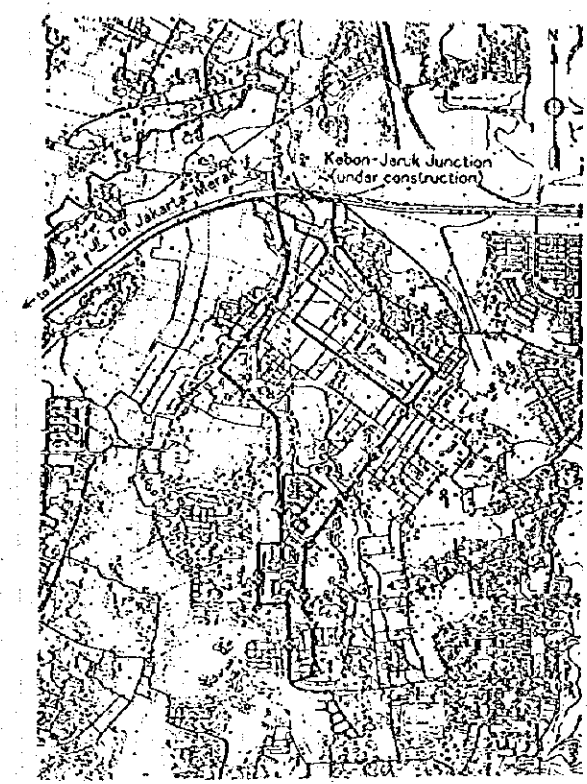
KAMAL DRAINAGE CHANNEL (BRANCH, UPSTREAM SECTION)



REFERENCE	DWG NO.	DATE	PREPARED	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
			CHECKED		CHANNEL STRUCTURES CONCRETE DITCH (1/2)	
			SUBMITTED		DWG NO.	DATE
					J-20-50-102	



CENKARENG WEST AREA



MERUYA AREA

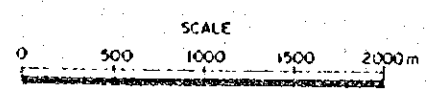
SLUICeway AND DRAIN-DITCH

Left Bank			Right Bank			Left Bank			Right Bank		
No.	Facilities	Location*	No.	Facilities	Location*	No.	Facilities	Location*	No.	Facilities	Location*
Kamal Drainage Channel (Main)						Gede/Bor Drainage Channel					
DKM-1L	Ditch	KM01+24a	SKM-1R	Sluiceway	KM17+20a	DCM-1L	Ditch	CM04+45a	DCM-1R	Ditch	CM03+0a
SKM-1L	Sluiceway	KM20+16a	SKM-2R	Sluiceway	KM21+6a	DCM-2L	Ditch	CM08+37a	DCM-1R	Sluiceway	CM04+46a
SKM-2L	Sluiceway	KM24+35a	SKM-3R	Sluiceway	KM27+42a	DCM-3L	Ditch	CM08+25a	DCM-2R	Ditch	CM06+13a
SKM-3L	Sluiceway	KM28+2a	SKM-4R	Sluiceway	KM40+32a	DCM-1L	Sluiceway	CM12+0a	DCM-3R	Ditch	CM08+16a
SKM-4L	Sluiceway	KM29+15a	SKM-5R	Sluiceway	KM45+6a	SKM-2L	Sluiceway	CM14+5a	SKM-2R	Sluiceway	CM12+0a
SKM-5L	Sluiceway	KM31+56a	SKM-6R	Sluiceway	KM50+31a	SKM-3L	Sluiceway	CM15+24a			
SKM-6L	Sluiceway	KM38+3a	SKM-7R	Sluiceway	KM54+28a	Saluran Cengkareng Drainage Channel					
SKM-7L	Sluiceway	KM42+7a				SCM-1L	Sluiceway	CM05+5a	DCM-1R	Ditch	CM09+48a
SKM-8L	Sluiceway	KM48+35a				SCM-2L	Sluiceway	CM16+12a	SCM-1R	Sluiceway	CM15+10a
CKM-1L	Culvert	KM52+2a				SCM-3L	Sluiceway	CM20+10a	SCM-2R	Sluiceway	CM18+4a
Kamal Drainage Channel (Branch)						Saluran Cengkareng Drainage Channel					
SKE-1L	Sluiceway	KE01+5a	CKE-1R	Culvert	KE01+5a	SCM-4L	Sluiceway	CM27+21a	SCM-3R	Sluiceway	CM28+1a
SKE-2L	Sluiceway	KE12+32a	SKE-1R	Sluiceway	KE21+5a	SCM-5L	Sluiceway	CM30+0a	SCM-4R	Sluiceway	CM30+0a
SKE-3L	Sluiceway	KE13+0a	SKE-2R	Sluiceway	KE25+5a	SCM-6L	Sluiceway	CM37+30a	SCM-5R	Sluiceway	CM37+0a
CKE-1L	Ditch	KE18+54a	SKE-3R	Sluiceway	KE31+0a	SCM-7L	Sluiceway	CM41+0a	SCM-6R	Sluiceway	CM41+30a
CKE-2L	Ditch	KE21+37a				SCM-8L	Sluiceway	CM47+34a	SCM-7R	Sluiceway	CM47+53a
SKE-2L	Sluiceway	KE25+5a				PIK Junction Drainage Channel					
CKE-1L	Channel	KE30+10a				SKM-1R	Sluiceway	NM34+0a			
SKE-5L	Sluiceway	KE31+43a									
Tanjung Drainage Channel											
STM-1L	Sluiceway	TM25+13a	STM-1R	Sluiceway	TM25+13a						
STM-2L	Sluiceway	TM30+10a	STM-2R	Sluiceway	TM30+10a						
STM-3L	Sluiceway	TM30+15a	STM-3R	Sluiceway	TM30+15a						
STM-4L	Sluiceway	TM35+13a									

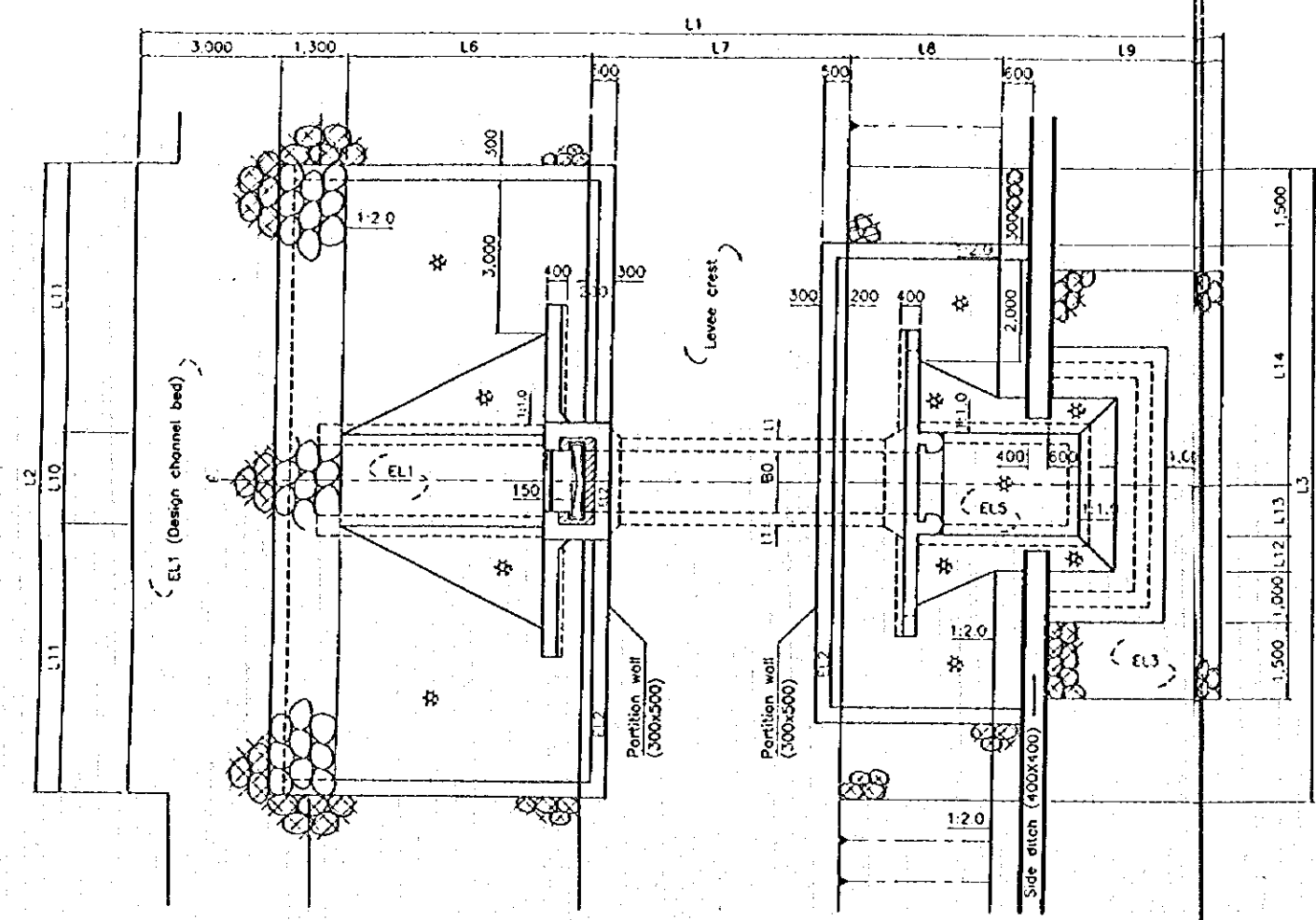
Note: * Based on cross section No in topographic survey

LEGEND

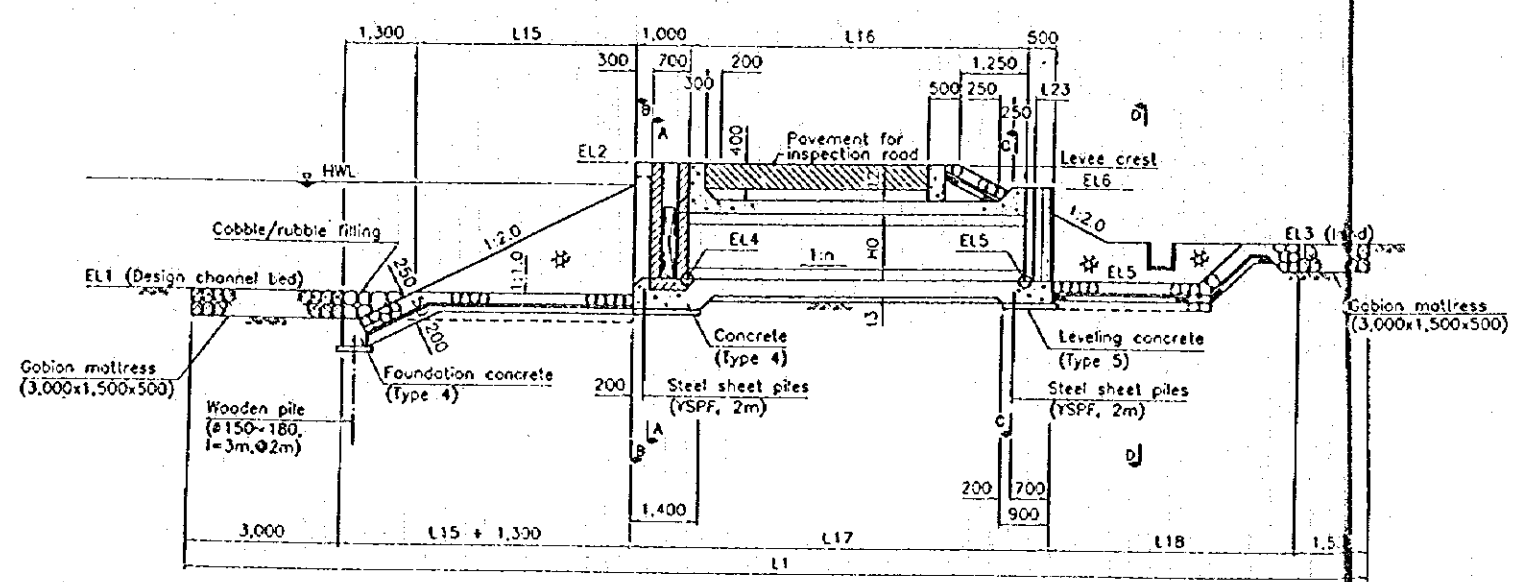
- Boundary of project area
- - - Basin boundary (drainage channel)
- - - Basin boundary (sluiceway, drain-ditch)
- ⇄ Sluiceway
- ⇄ Culvert, Ditch or Channel



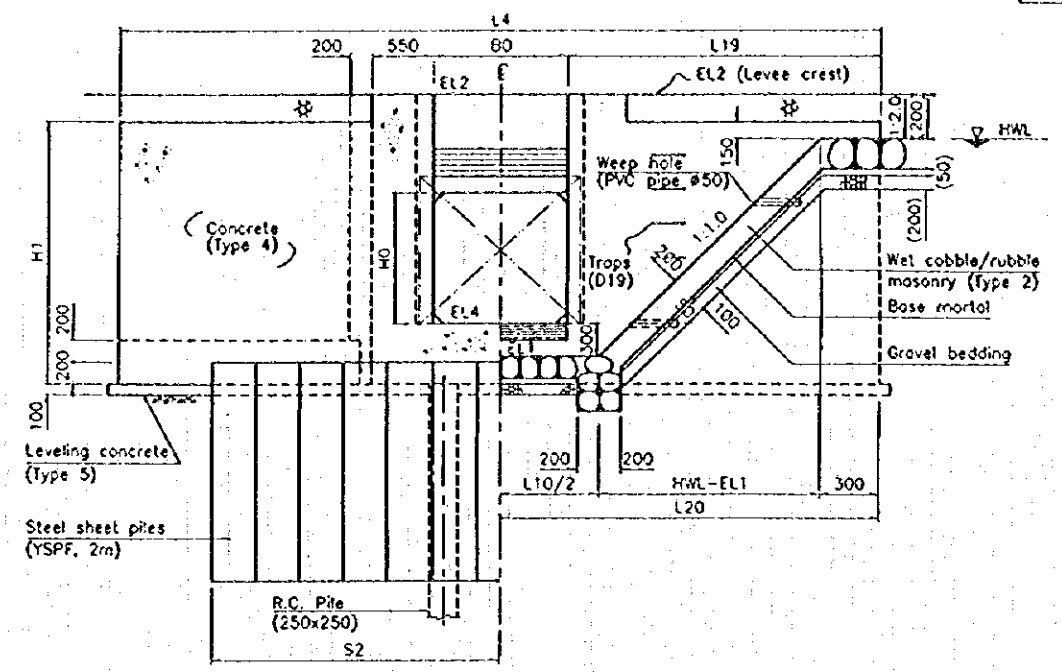
PREPARED	MINISTRY OF PUBLIC WORKS	TITLE OF DRAWING	APPROVED
CHECKED	DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	DRAINAGE FACILITIES, DRAINAGE AREA MAP	
SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY	DWG NO	DATE
REFERENCE	THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT	J-30-00-001	
	THE CITY OF JAKARTA		



PLAN

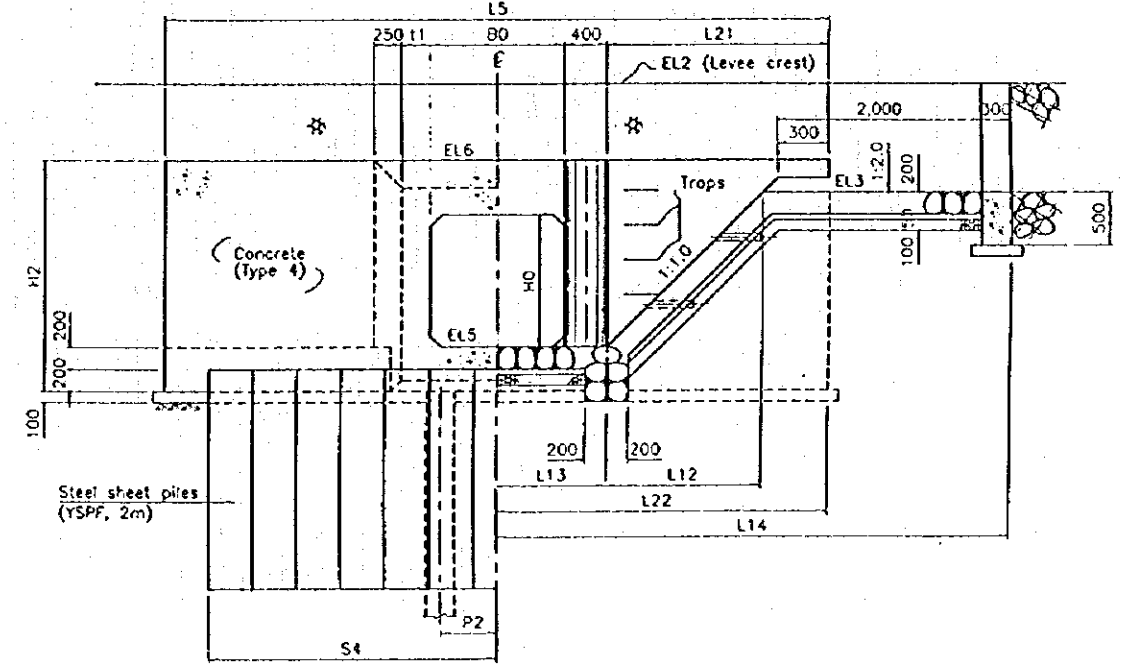


PROFILE



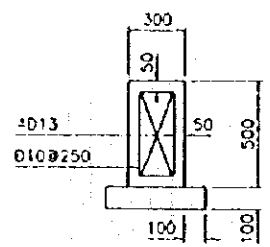
SECTION A-A

SECTION B-B

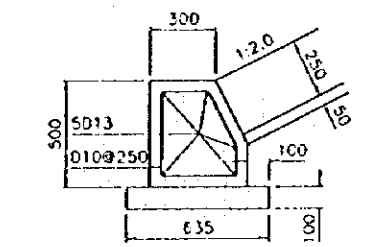


SECTION C-C

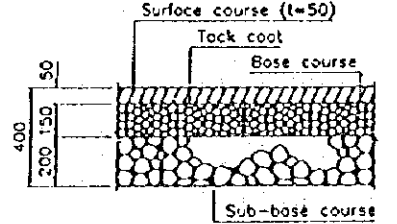
SECTION D-D



PARTITION WALL



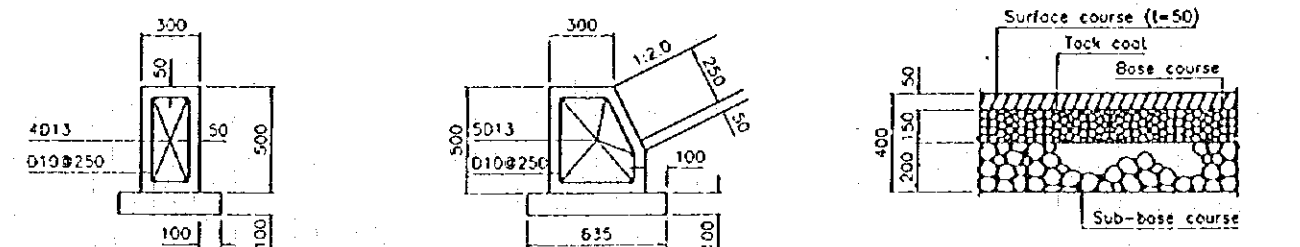
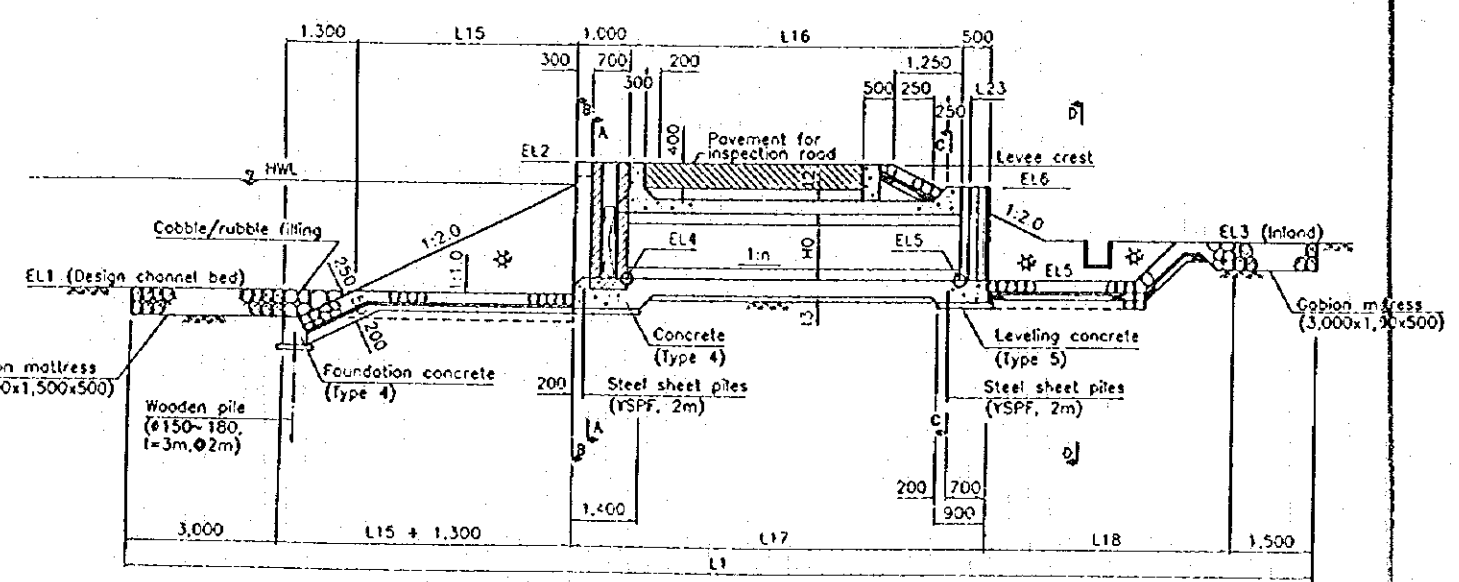
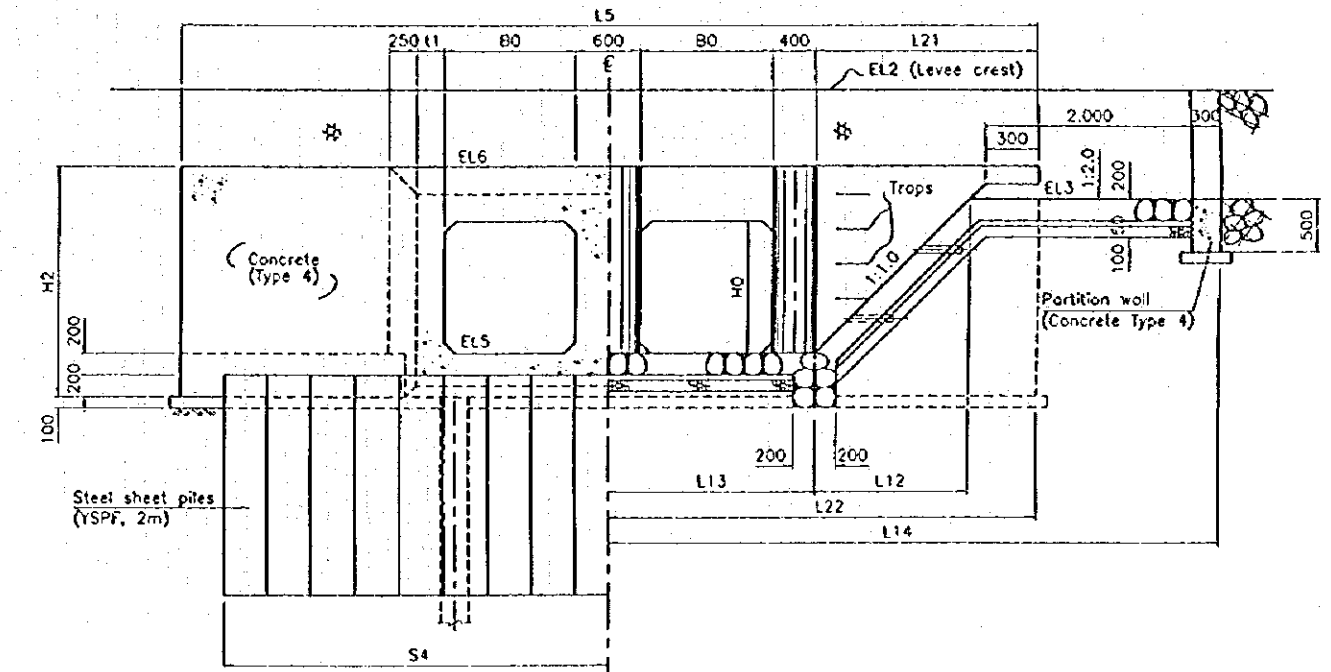
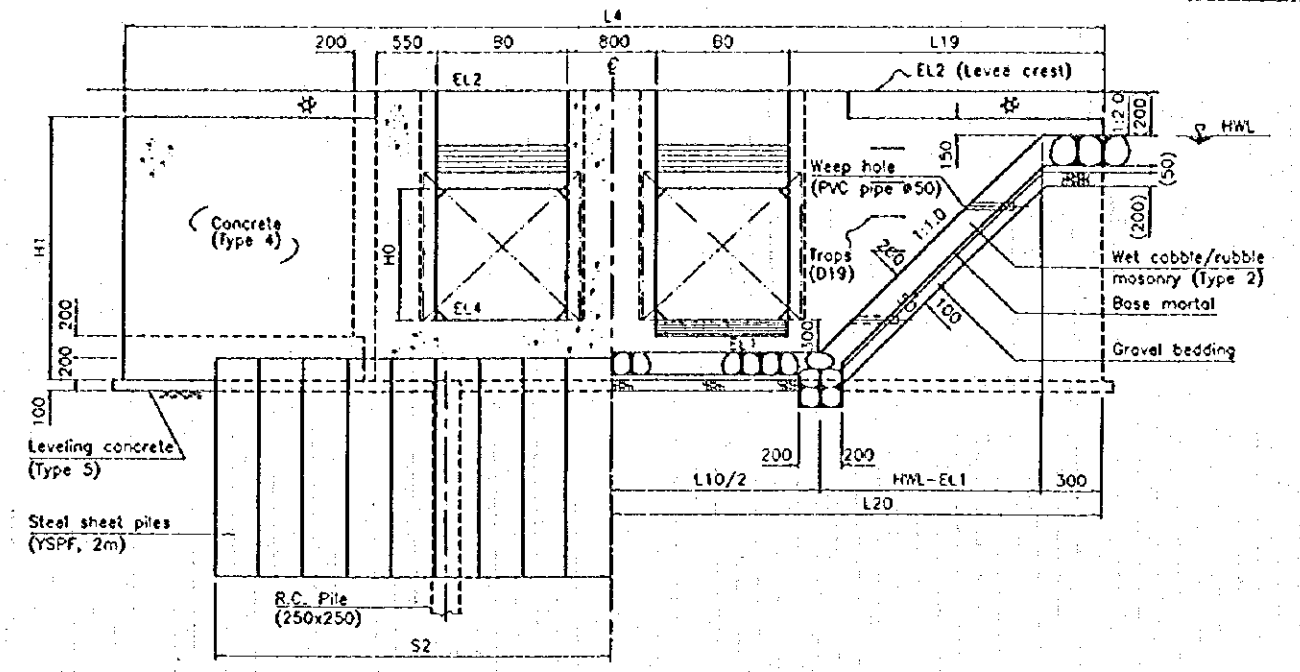
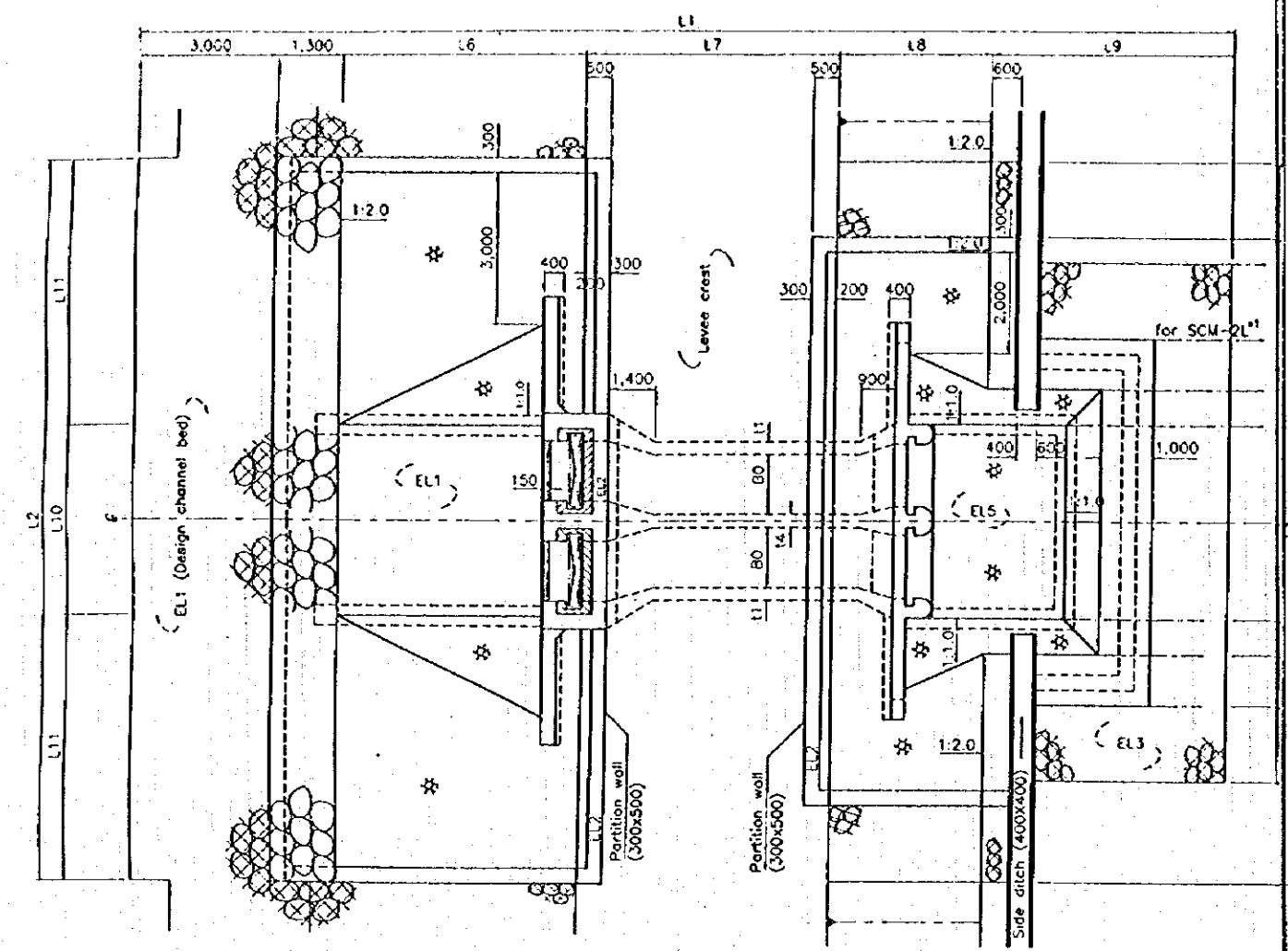
FOUNDATION CONCRETE



PAVEMENT

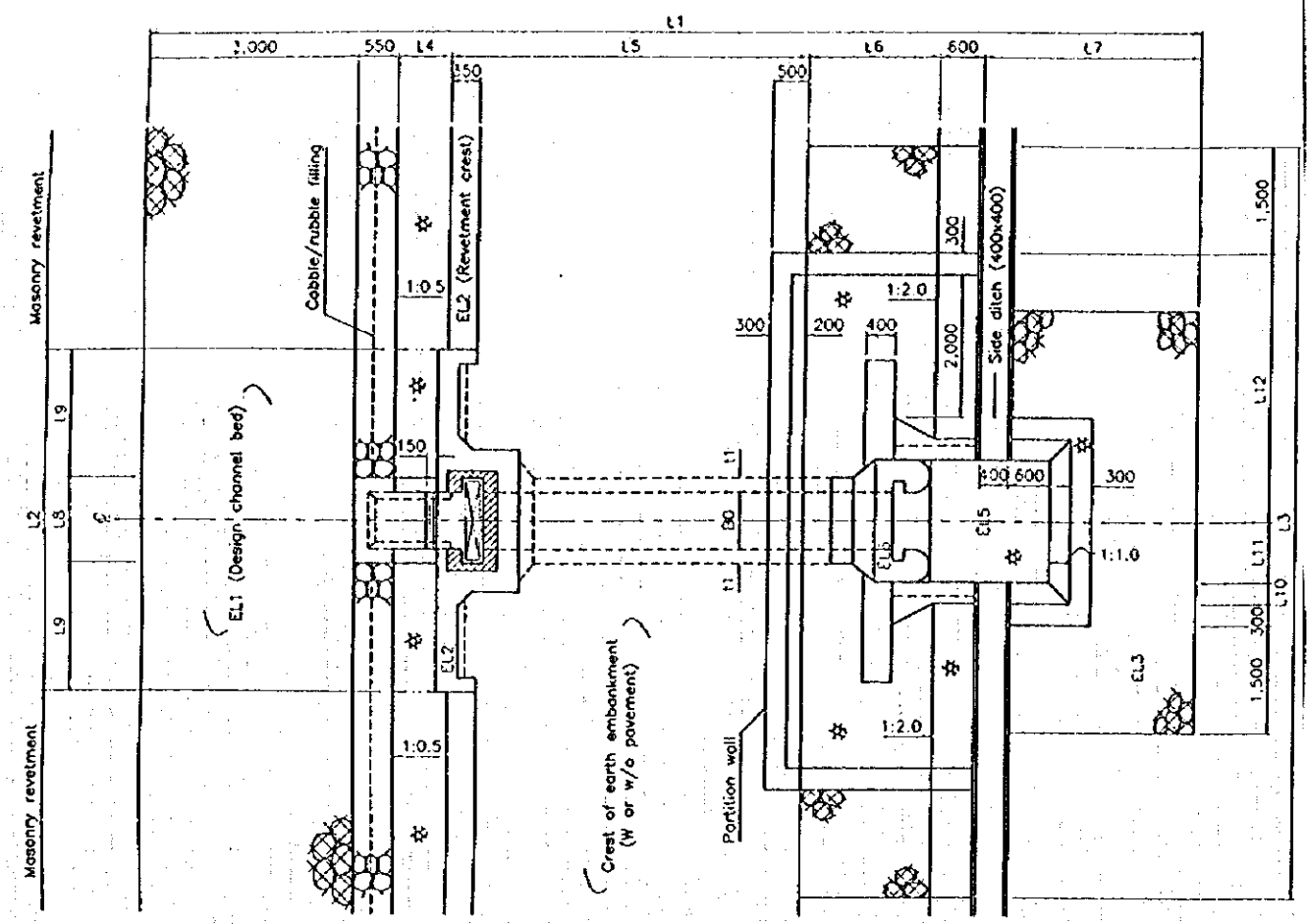
NOTE :
- For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES".

PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY, LEVEE EARTH TYPE SITE (1/2)	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-101	DATE
SUBMITTED.....			
REFERENCE	DWG NO.		

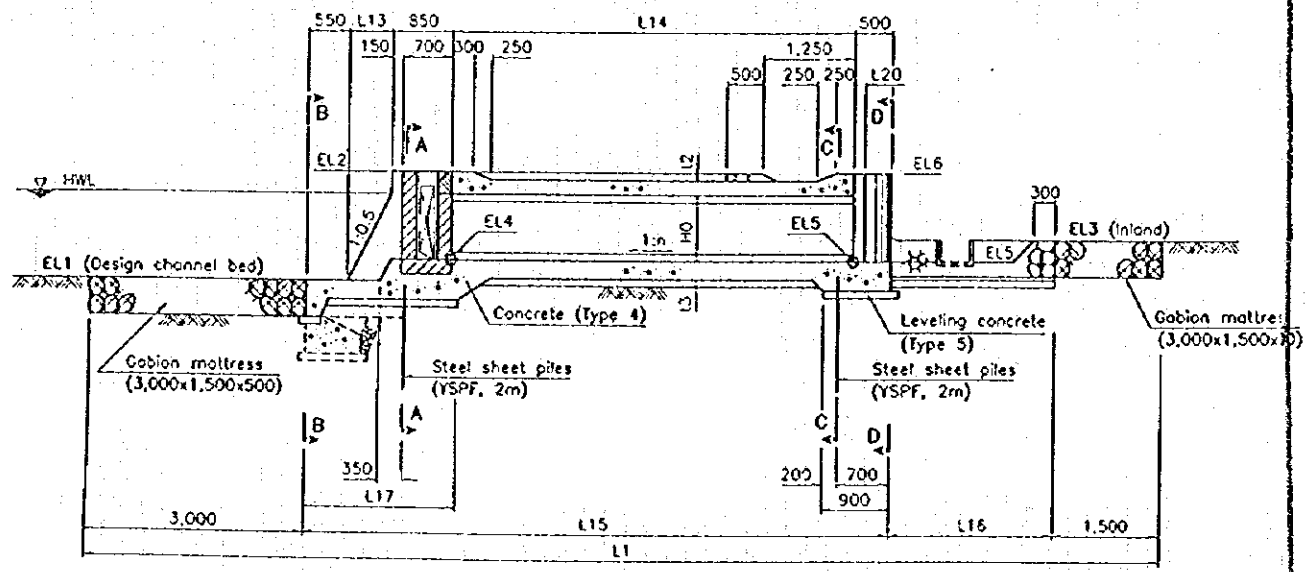


- NOTES:
- (1) For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES".
 - (2) The inlet structure shall be connected to the existing secondary drainage channel.

PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	DRAINAGE FACILITIES, SLUICWAY, LEVEE EARTH TYPE SITE (2/2)	APPROVED	
CHECKED			DWG NO.		J-30-10-102	DATE
SUBMITTED						
REFERENCE	DWG NO.		DATE			

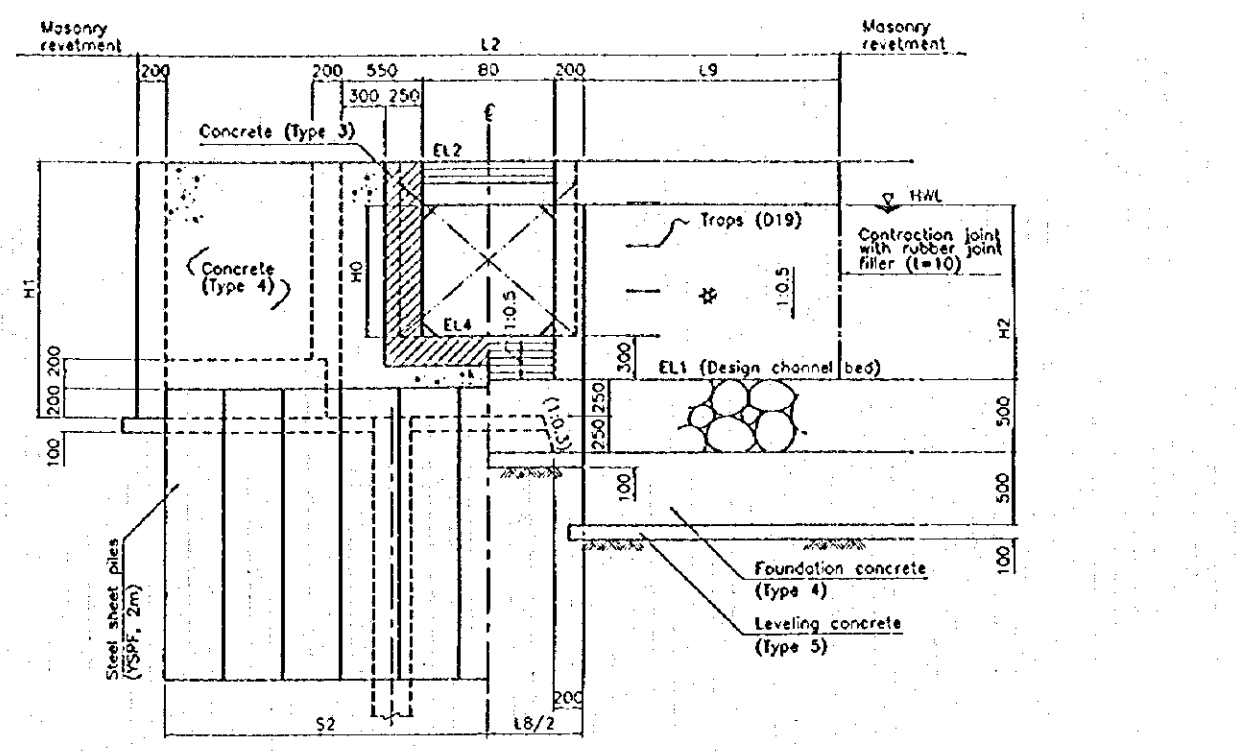


PLAN



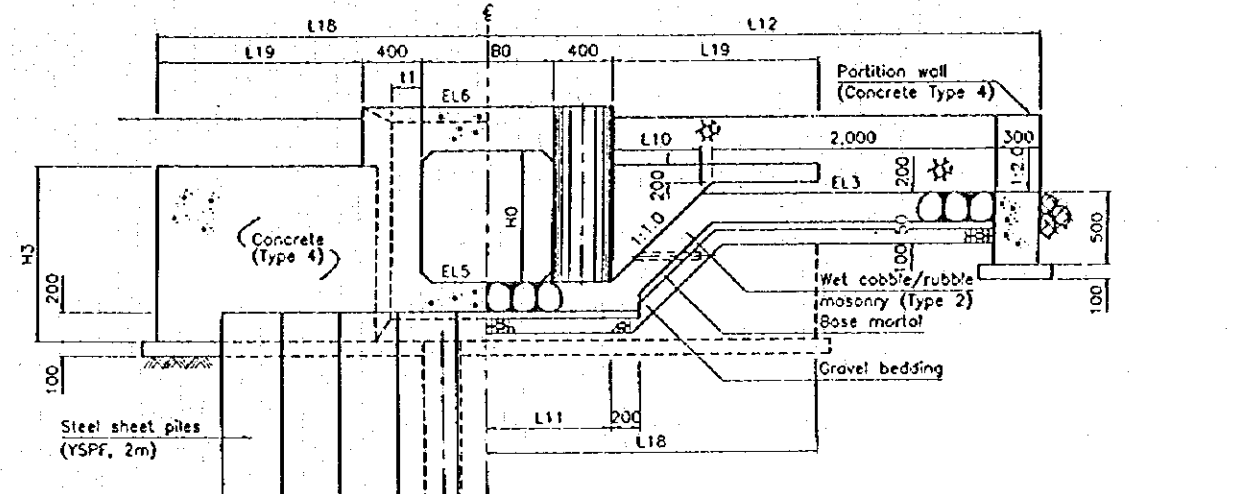
PROFILE

NOTE :
- For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUICeway, DIMENSION TABLES".



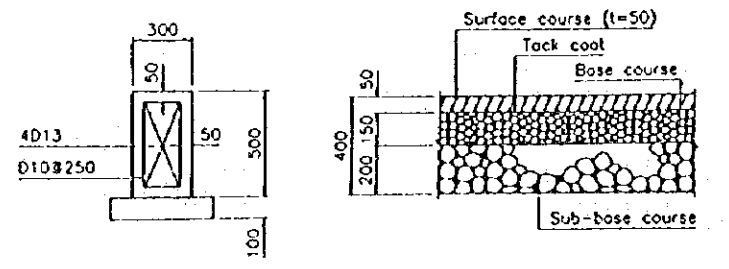
SECTION A-A

SECTION B-B



SECTION C-C

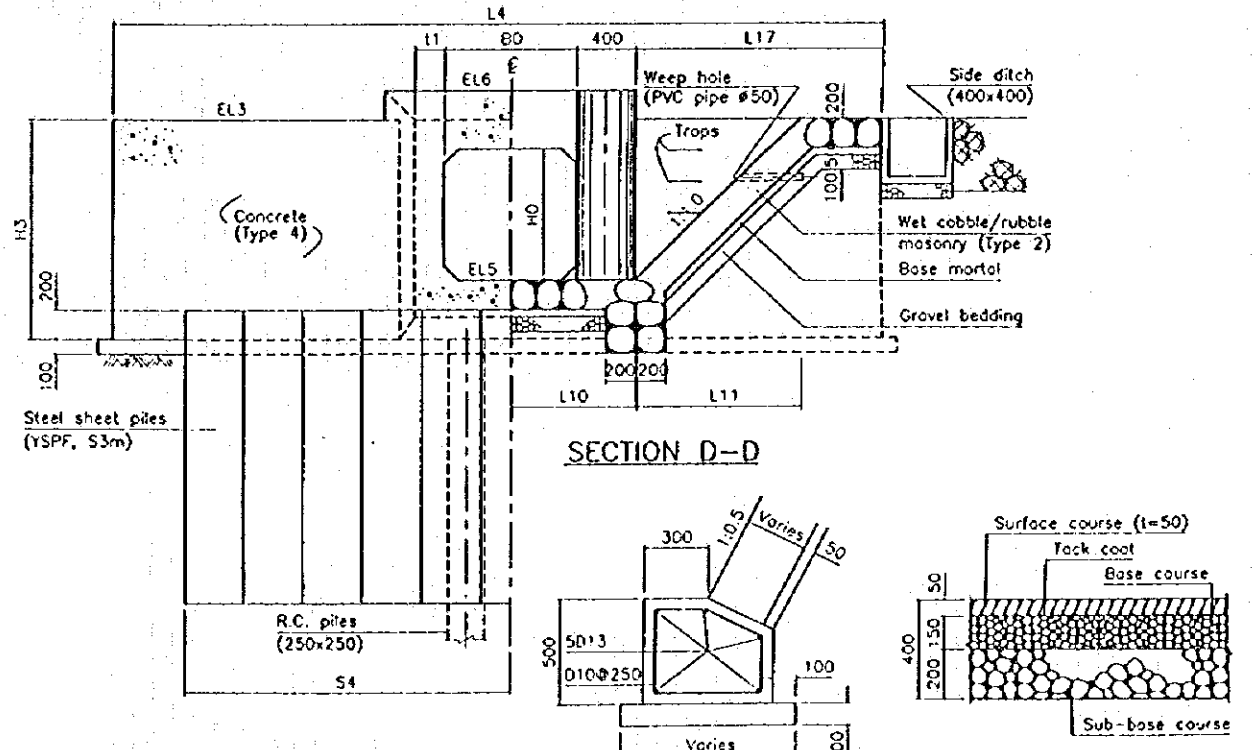
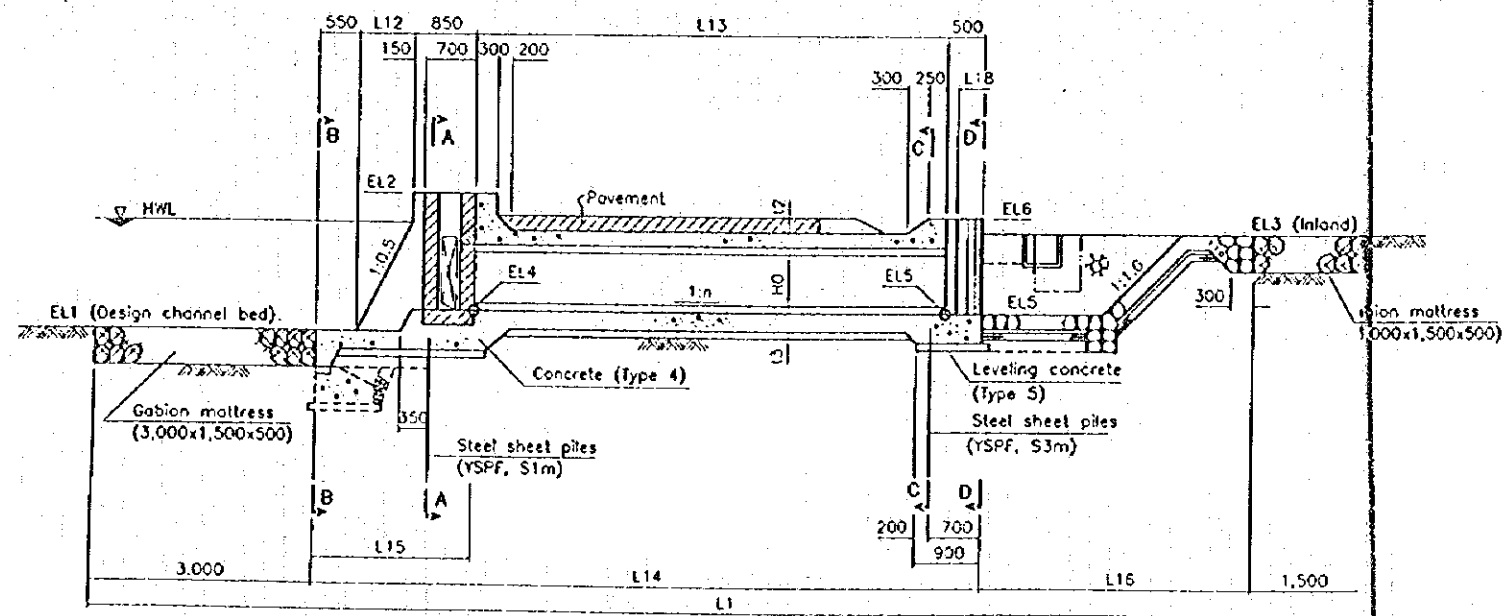
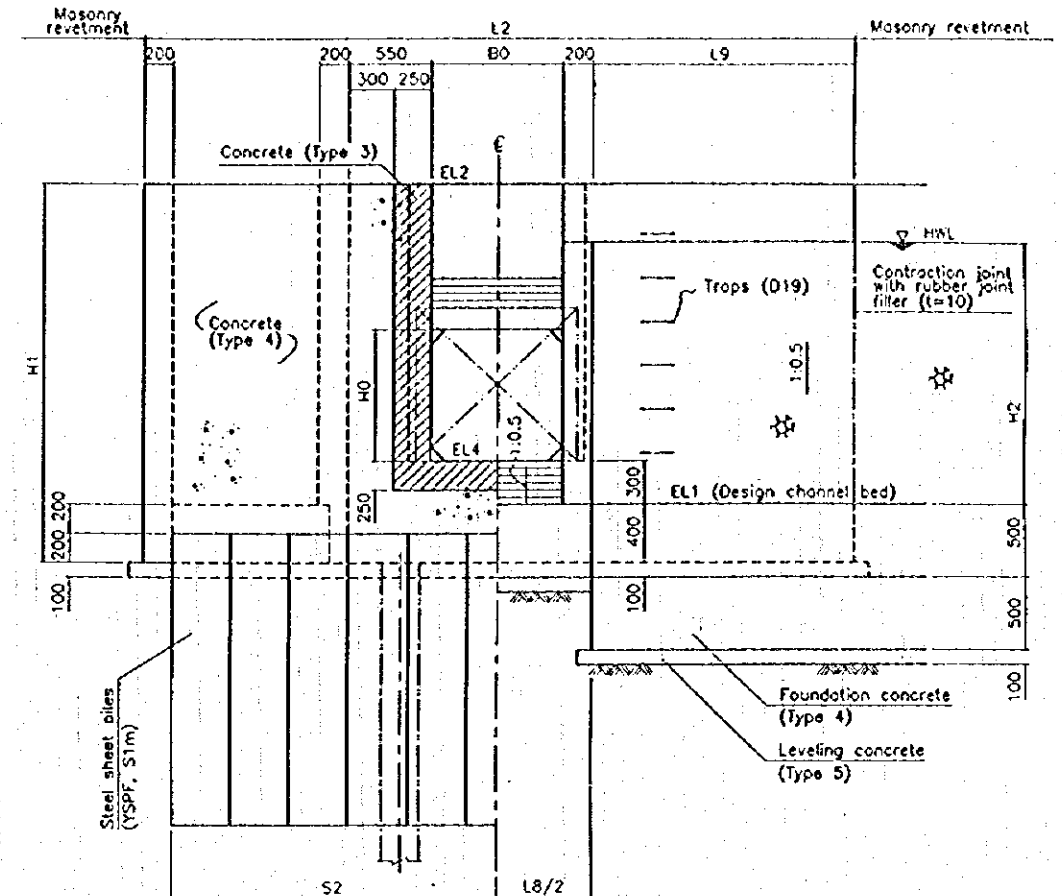
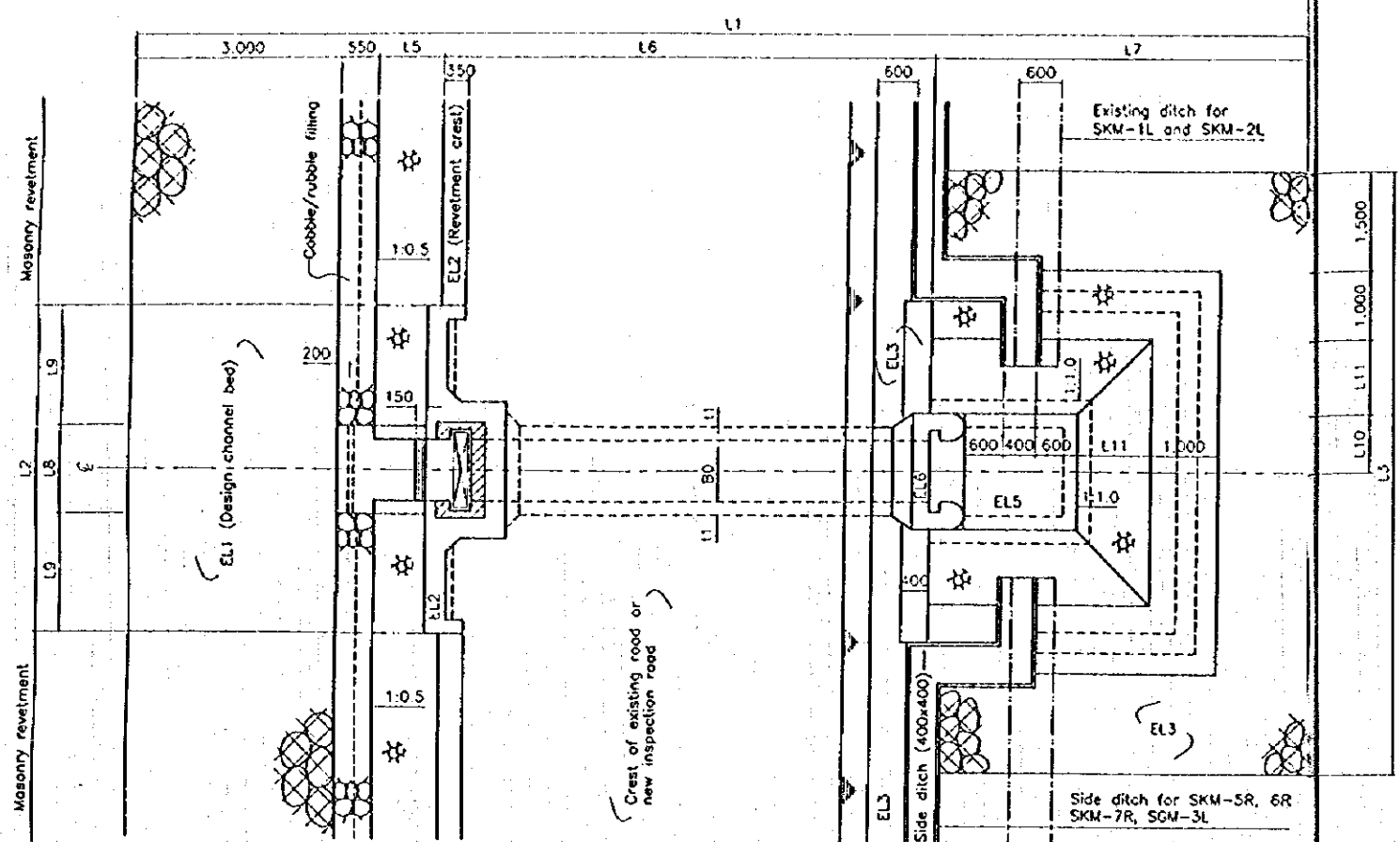
SECTION D-D



PARTITION WALL

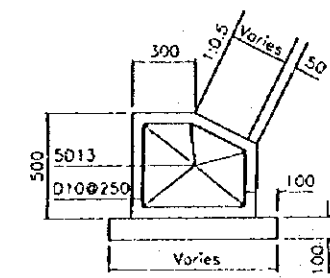
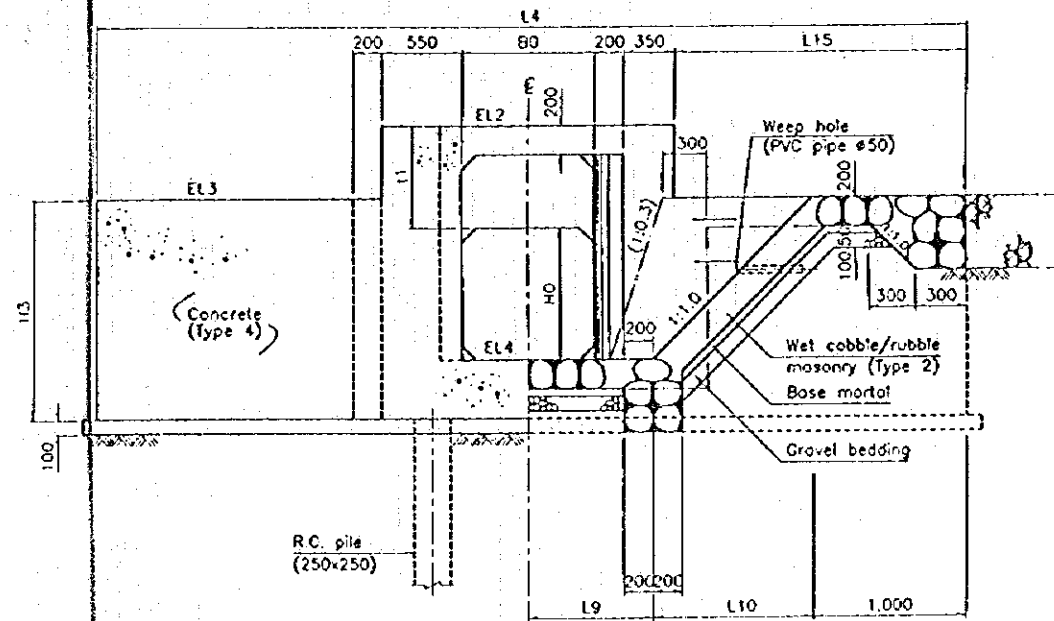
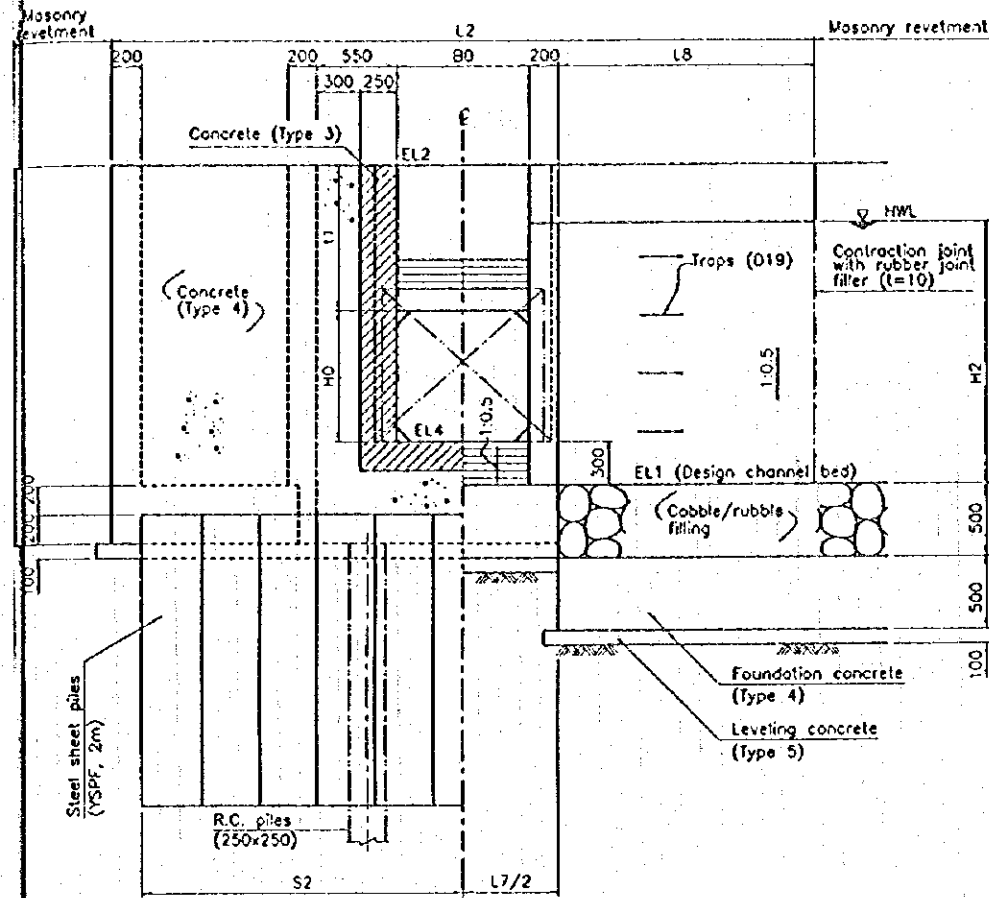
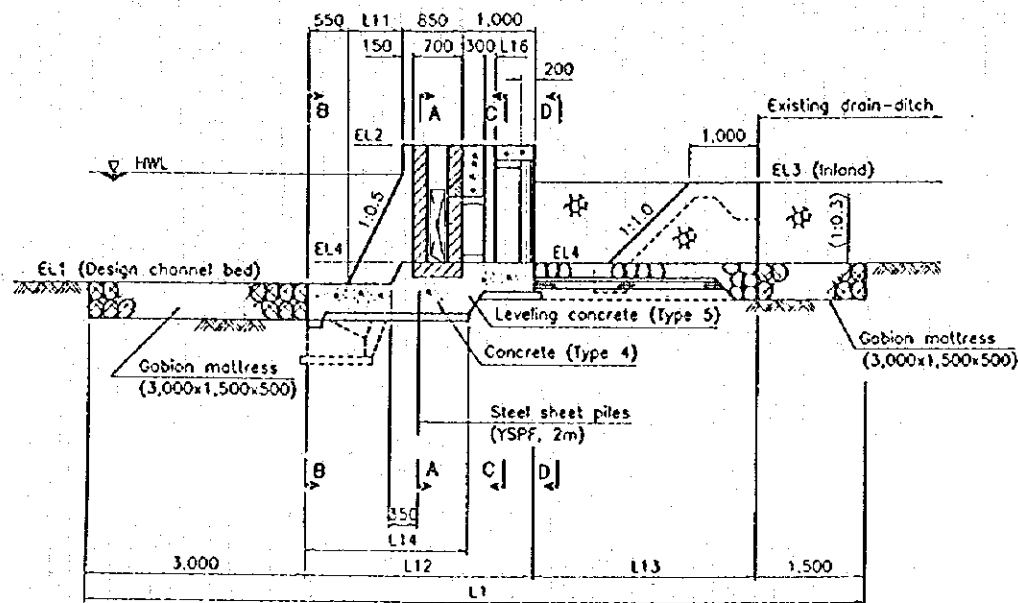
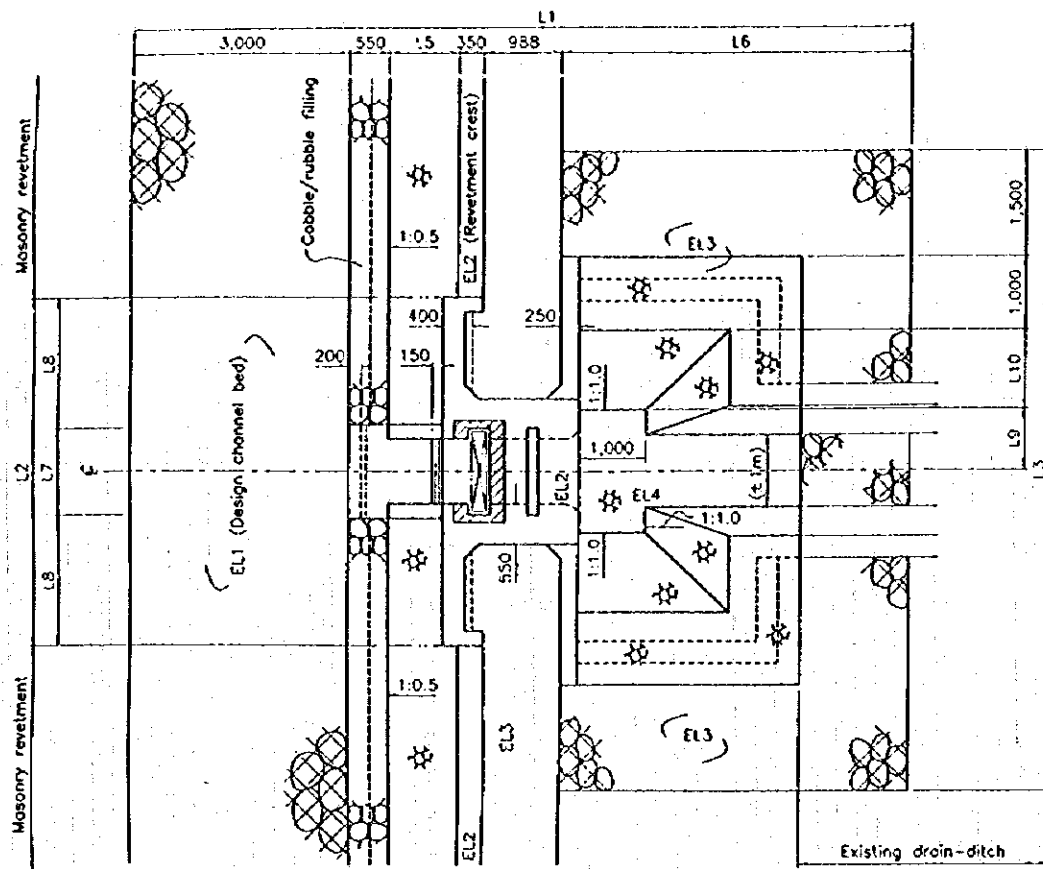
PAVEMENT

REFERENCE	DWG NO.	DATE	PREPARED..... CHECKED..... SUBMITTED..... DATE.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICeway, REYEMENT TYPE I SITE DWG NO. J-30-10-105	APPROVED DATE
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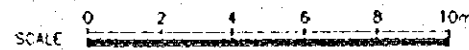


NOTE :
 - For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES".

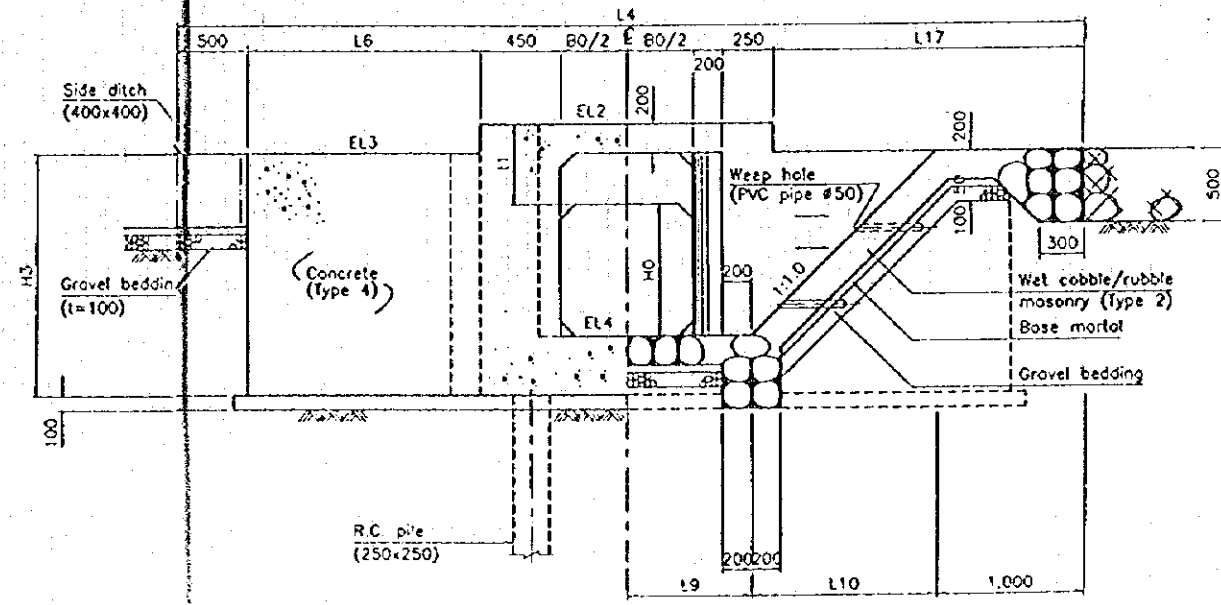
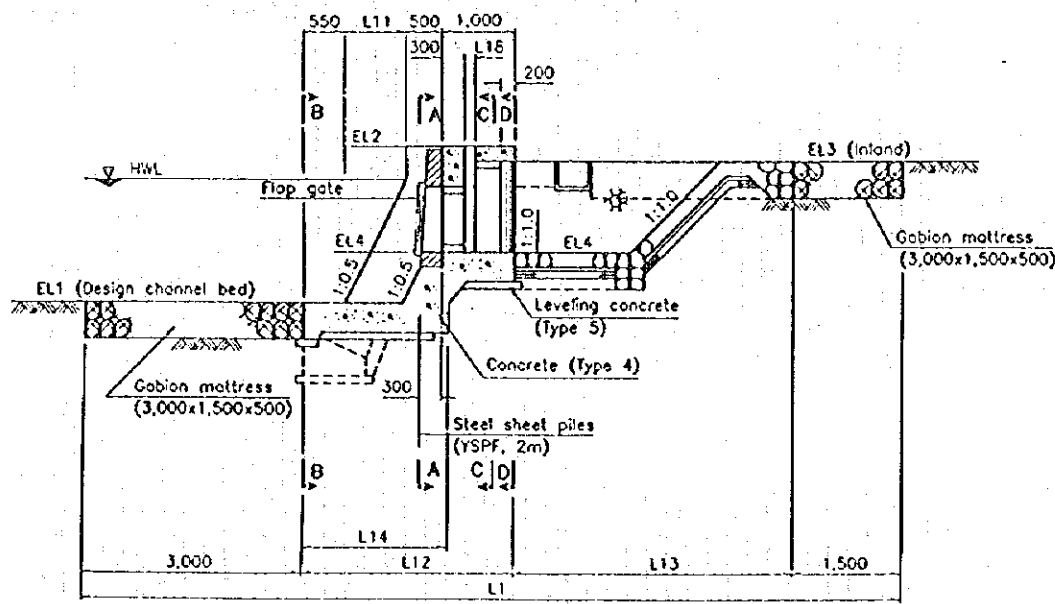
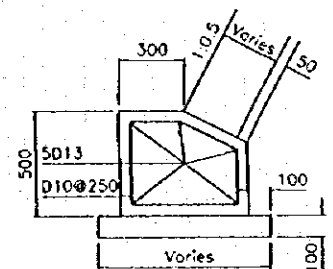
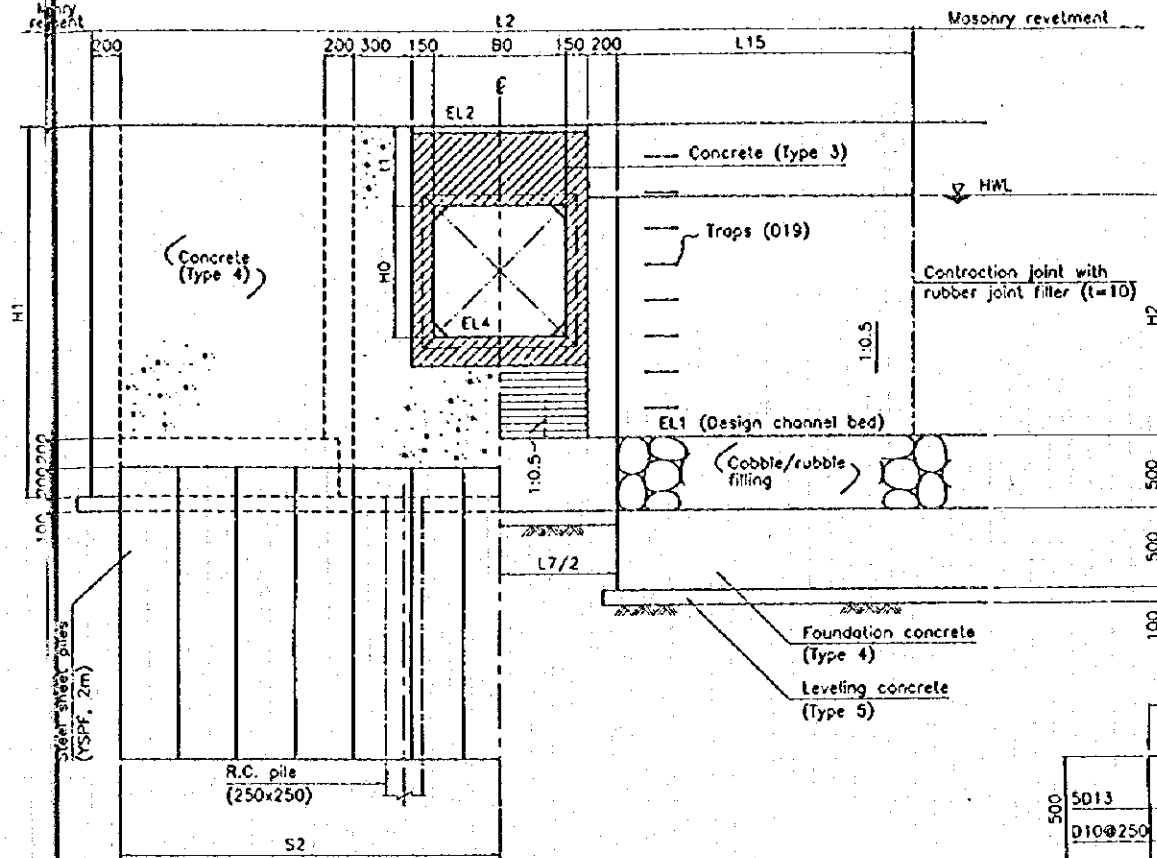
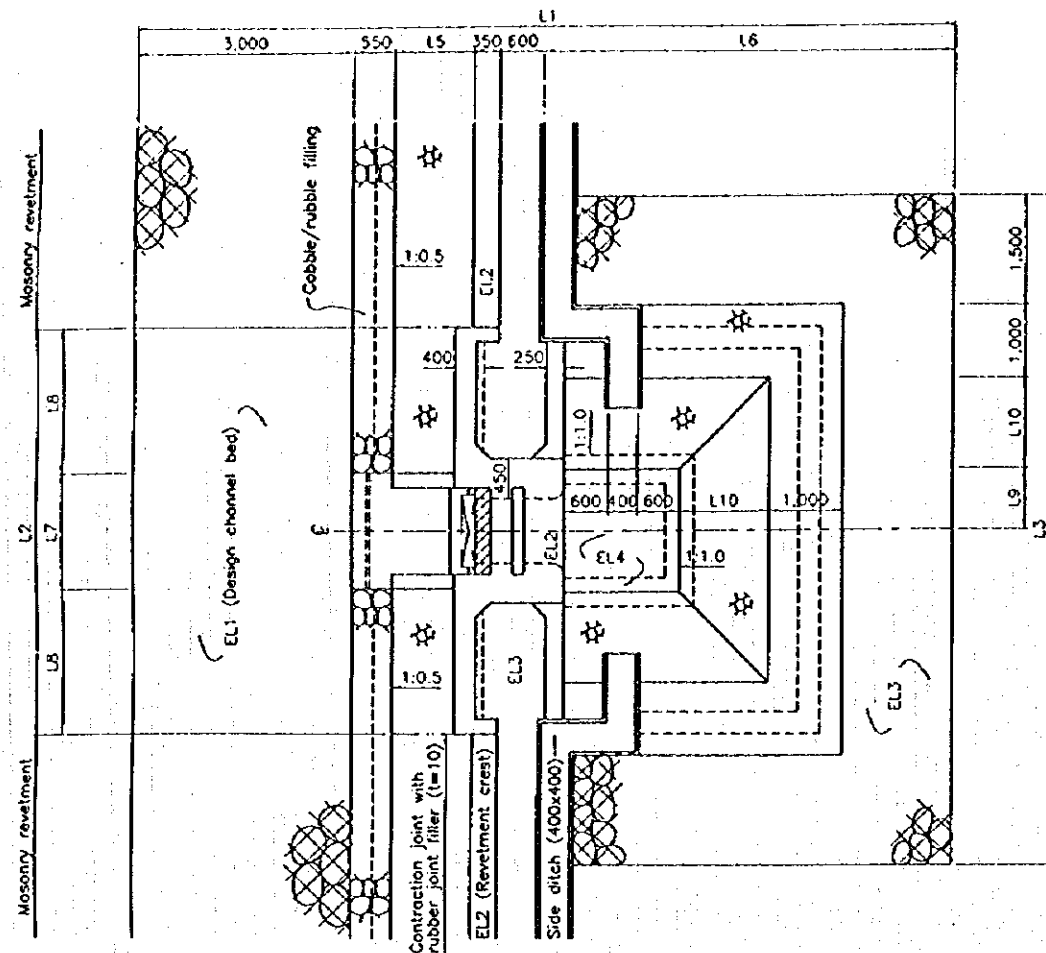
REFERENCE	DWG. NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY, REVETMENT TYPE II SITE (1/3)	APPROVED
		CHECKED.....			
		SUBMITTED.....			
		DATE.....			
			JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG. NO. J-30-10-108	DATE



NOTE :
- For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUCEWAY, DIMENSION TABLES".



REFERENCE	PREPARED	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED	
	CHECKED		DRAINAGE FACILITIES, SLUCEWAY, REVTMENT TYPE II SITE (3/5)		
	SUBMITTED		OWC NO.		DATE
	DATE		J-30-10-108		



NOTE :
 - For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES".

REFERENCE	DWG NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED	
		CHECKED.....		DRAINAGE FACILITIES, SLUICWAY, RETEVMENT TYPE II SITE (4/5)		
		SUBMITTED.....		DWG NO.		DATE
		DATE.....		J-30-10-109		
			JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA			

SLUICEWAYS AT LEVEE EARTH TYPE SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-101

Left/Right	No.	Location	HVL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L14 (m)	L15 (m)	L16 (m)	L17 (m)	L18 (m)	L19 (m)	L20 (m)	L21 (m)	L22 (m)	L23 (m)	n	B0 (m)	H0 (m)	t1 (m)	t2 (m)	t3 (m)	H1 (m)	H2 (m)	S2 (m)	S4 (m)
(1) Kamal drainage channel (Main)																																									
Left	SKM-4L	KM20+18m	0.948	-0.735	1.477	0.3	-0.436	-0.357	1.077	20.837	11.367	11.818	5.367	4.618	4.428	3.000	2.354	4.737	1.400	4.983	0.657	4.309	3.367	6.309	7.809	3.881	2.283	2.683	1.509	2.309	0.110	80	0.8	0.8	0.20	0.20	0.25	2.083	1.834	1.950	1.950
Right	SKM-5R	KM31+56m	0.974	-0.678	1.511	0.5	-0.378	-0.315	1.211	20.812	11.503	11.800	5.503	4.800	4.377	3.000	2.021	4.915	1.600	4.951	0.815	4.400	3.303	6.324	7.821	3.886	2.251	2.731	1.500	2.400	0.110	100	1.0	1.0	0.25	0.25	0.30	2.051	1.925	2.050	2.050
(2) Saluran Cengkareng drainage channel																																									
Left	SKM-6L	KM48+33m	1.323	-0.141	1.911	1.0	0.169	0.223	1.711	20.104	11.129	11.528	5.129	4.524	4.105	3.000	1.822	4.877	1.600	4.784	0.777	4.283	2.922	6.426	7.926	3.449	2.064	2.584	1.363	2.283	0.110	100	1.0	1.0	0.25	0.25	0.30	1.664	1.664	2.050	2.050
Right	SKM-2R	KM21+6m	0.865	-0.976	1.238	0.0	-0.876	-0.840	1.036	18.936	11.743	12.152	5.743	5.102	4.424	3.000	2.472	4.740	1.800	4.971	0.640	4.551	3.343	4.331	5.831	3.952	2.271	2.871	1.551	2.551	0.110	120	1.2	1.2	0.25	0.25	0.30	2.071	2.078	2.150	2.150
Left	SKM-3R	KM27+42m	0.807	-0.792	1.425	0.1	-0.492	-0.459	1.325	19.041	11.699	12.217	5.899	5.217	4.433	3.000	2.649	4.658	1.900	4.999	0.559	4.606	3.592	4.284	5.784	4.058	2.299	2.819	1.658	2.608	0.110	130	1.3	1.3	0.25	0.25	0.30	2.099	2.183	2.200	2.200

SLUICEWAYS AT LEVEE EARTH TYPE SITES, 2 LANES, SLIDE GATE, DWG. NO. J-30-10-102

Left/Right	No.	Location	HVL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L14 (m)	L15 (m)	L16 (m)	L17 (m)	L18 (m)	L19 (m)	L20 (m)	L21 (m)	L22 (m)	L23 (m)	n	B0 (m)	H0 (m)	t1 (m)	t2 (m)	t3 (m)	t4 (m)	H1 (m)	H2 (m)	S2 (m)	S4 (m)
(1) Kamal drainage channel (Main)																																										
Right	SKM-1R	KM17+20m	0.592	-1.082	1.148	-0.1	-0.782	-0.722	0.943	18.937	13.507	13.690	7.507	6.890	4.419	3.000	2.495	4.722	3.600	4.954	0.822	5.345	3.307	4.382	5.882	3.068	2.254	3.754	1.545	3.345	0.110	110	1.1	1.1	0.25	0.25	0.30	2.054	2.070	3.050	3.050	
(2) Saluran Cengkareng drainage channel																																										
Left	SCW-2L	CM18+12m	1.875	-0.384	2.020	0.7	-0.064	-0.014	1.720	21.521	14.478	14.218	8.478	7.218	4.787	5.000	2.640	4.814	3.800	5.339	0.714	5.609	4.078	5.930	7.439	4.204	2.639	4.239	1.709	3.609	0.110	120	1.2	1.2	0.30	0.30	0.35	2.439	2.134	3.150	3.150	

SLUICEWAYS AT LEVEE PARAPET WALL TYPE SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-103

Left/Right	No.	Location	HVL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L14 (m)	L15 (m)	L16 (m)	L17 (m)	L18 (m)	L19 (m)	L20 (m)	L21 (m)	L22 (m)	L23 (m)	n	B0 (m)	H0 (m)	t1 (m)	t2 (m)	t3 (m)	H1 (m)	H2 (m)	S1 (m)	S2 (m)	S3 (m)	S4 (m)
(1) Kamal drainage channel (Main)																																											
Left	SKM-8L	KM38+3m	1.097	-0.451	1.872	0.5	-0.151	-0.094	1.072	15.312	5.503	11.083	0.478	1.588	5.000	1.745	4.100	1.600	1.931	0.594	0.900	5.700	2.812	7.200	3.194	1.701	2.742	1.642	0.110	100	1.0	1.0	0.25	0.25	0.30	2.374	1.442	2.000	2.751	2.000	2.400		
Right	SKM-7R	KM42+7m	1.207	-0.293	1.794	0.8	0.243	0.324	0.694	17.278	5.496	10.189	0.547	1.497	5.000	1.368	4.338	1.300	2.063	0.478	0.750	5.700	2.584	7.200	3.078	1.843	2.595	1.845	0.110	70	0.7	0.7	0.20	0.20	0.25	2.337	1.145	2.000	2.743	2.000	2.250		

SLUICEWAYS AT LEVEE PARAPET WALL TYPE SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-104

Left/Right	No.	Location	HVL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L13 (m)	L14 (m)	L16 (m)	L17 (m)	n	B0 (m)	H0 (m)	t1 (m)	H1 (m)	H2 (m)	S1 (m)	S2 (m)
(1) Saluran Cengkareng drainage channel																																	
Left	SCM-4L	CM27+21m	1.948	0.004	2.343	0.9	0.304	0.492	0.192	9.192	0.448	1.721	5.795	1.700	1.824	1.500	0.568	2.719	3.195	1.646	2.598	1.494	0.110	Level	1.1	1.1	0.938	2.589	0.998	4.000	2.748		
Right	SCM-2R	CM18+4m	1.869	-0.369	2.015	0.6	-0.069	0.251	0.539	0.485	1.707	5.889	1.800	1.969	1.800	0.889	2.742	3.269	1.719	2.789	1.819	0.110	Level	1.2	1.2	0.884	2.834	1.069	3.000	2.889			
Left	SCM-3R	CM26+1m	1.920	-0.037	2.311	0.7	0.283	0.373	0.673	8.673	0.368	1.808	5.837	1.800	1.737	1.400	0.437	2.724	3.037	1.487	2.337	1.287	0.110	Level	1.0	1.0	1.048	2.598	0.837	4.000	2.537		

SLUICEWAYS AT REVETMENT TYPE I SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-105

Left/Right	No.	Location	HVL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L14 (m)	L15 (m)	L16 (m)	L17 (m)	L18 (m)	L19 (m)	L20 (m)	n	B0 (m)	H0 (m)	t1 (m)	t2 (m)	t3 (m)	H1 (m)	H2 (m)	H3 (m)	S2 (m)	S4 (m)
(1) Kamal drainage channel (Main)																																							
Right	SKM-4R	KM40+32m	1.156	-0.365	1.739	0.9	-0.065	-0.019	1.239	13.598	4.900	11.485	1.652	3.000	1.877	3.719	1.200	1.850	0.919	0.800	4.233	3.892	6.352	7.745	2.280	2.233	1.433	0.110	80	0.8	0.8	0.20	0.20	0.25	2.354	1.521	1.733	1.950	1.950
(2) Kamal drainage channel (Branch)																																							
Left	SKM-4L	KE25-5m	2.328	1.152	2.641	1.9	1.452	1.497	2.741	12.579	4.900	10.238	0.744	3.000	1.491	3.203	1.200	1.850	0.403	0.800	3.619	3.557	6.044	2.034	2.088	2.019	1.219	0.110	80	0.8	0.8	0.20	0.20	0.25	1.738	1.176	1.119	1.950	1.950
Right	SKM-2R	KE25-5m	2.328	1.152	2.641	1.9	1.452	1.525	2.821	15.550	5.000	10.281	0.744	3.000	1.481	3.175	1.300	1.850	0.375	0.850	3.640	3.557	6.044	2.008	2.088	2.040	1.190	0.110	90	0.9	0.9	0.25	0.25	0.30	1.738	1.175	1.090	2.000	2.000
(3) Saluran Cengkareng drainage channel																																							
Left	SCM-8L	CM47+34m	2.254	0.547	2.889	1.8	0.847	0.887	2.239	13.713	5.000	11.654	1.071	3.000	1.778	3.713	1.300	1.850	0.913	0.850	4.327	3.818	6.372	2.841	2.354	2.327	1.477	0.110	90	0.9	0.9	0.25	0.25	0.30	2.393	1.707	1.777	2.000	2.000
Right	SCM-7R	CM47+53m	2.257	0.553	2.892	1.8	0.853	0.935	2.192	16.687	4.900	11.451	1.089	3.000	1.783	3.684	1.200	1.850	0.884	0.800	4.231	3.817	6.359	2.797	2.352	2.231	1.431	0.110	80	0.8	0.8	0.20	0.20	0.25	2.389	1.704	1.731	1.950	1.950
(4) Cede/Bor drainage channel																																							
Left	SCM-1L	CM12+0m	2.930	1.399	3.343	2.3	1.682	1.772	3.043	18.541	4.900	11.062	0.977	3.000	2.086	3.328	1.200	1.850	0.528	0.800	4.048	3.807	9.278	2.764	2.271	2.048	1.248	0.110	80	0.8	0.8	0.20	0.20	0.28	2.204	1.541	1.546	1.950	1.950

SLUICEWAYS AT REVETMENT TYPE II SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-106

Left/Right	No.	Location	HVL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L14 (m)	L15 (m)	L16 (m)	L17 (m)	L18 (m)	L19 (m)	L20 (m)	n	B0 (m)	H0 (m)	t1 (m)	t2 (m)	t3 (m)	H1 (m)	H2 (m)	H3 (m)	S1 (m)	S2 (m)	S3 (m)	S4 (m)
(1) Kamal drainage channel (Main)																																									
Left	SKM-1L	KM20+16m	0.888	-0.882	1.230	0.5	-0.882	-0.802	1.130	21.658	8.300	9.203	4.893	1.108	11.500	3.702	1.800	2.350	1.000	1.102	0.835	13.658	2.235	3.702	1.402	0.110	120	1.2	1.2	0.25	0.25	0.30	2.482	1.670	1.502	2.000	2.850	2.000	2.150		
Right	SKM-2R	KM24+35m	0.798	-0.887	1.327	0.9	-0.587	-0.527	1.027	17.934	8.200	9.754	5.354	1.107	7.250	3.027	1.500	2.350	0.950	1.427	0.843	14.407	2.243	4.027	1.727	0.110	110	1.1	1.1	0.25	0.25	0.30	2.484	1.885	1.827	2.000	2.600	2.000	2.100		
Right	SKM-5R	KM45+8m	1.280	-0.189	1.868	1.2	0.101	0.171	1.568	17.397	5.900	8.658	4.258	1.033	7.185	5.829	1.200	2.350	0.800	1.029	0.749	14.268	2.140	3.829	1.329	0.110	80	0.8	0.8	0.20	0.20										

SLUICWAYS AT REVETMENT TYPE II SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-107

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L13 (m)	L14 (m)	L15 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)	S2 (m)	
(1) Kernal drainage channel (Branch)																															
Left	SKL-1L	KE01+5m	1.425	0.223	1.970	1.1	0.523	10.678	5.900	7.254	3.554	0.974	5.305	1.200	2.350	0.800	0.577	1.202	3.602	3.177	2.802		0.110	Level	0.8	0.8	0.647	2.147	1.202	0.977	2.450
Right	SKL-1R	KE21+5m	2.225	1.035	2.538	1.8	1.335	10.560	5.900	7.530	3.330	0.751	5.309	1.200	2.350	0.800	0.455	1.191	3.591	3.065	2.791		0.110	Level	0.8	0.8	0.403	1.903	1.191	0.885	2.450
(2) Tanjung drainage channel																															
Left	STM-1L	TM25+13m	0.478	-0.907	0.903	0.40	-0.607	11.200	5.900	8.814	4.614	0.905	5.795	1.200	2.350	0.800	1.007	1.366	3.788	3.607	2.988		0.110	Level	0.8	0.8	0.710	2.210	1.366	1.407	2.450
Right	STM-1R	TM25+13m	0.478	-0.907	0.903	0.20	-0.607	11.000	5.900	8.214	4.214	0.905	5.595	1.200	2.350	0.800	0.807	1.366	3.788	3.407	2.988		0.110	Level	0.8	0.8	0.710	2.210	1.366	1.207	2.450
(3) Saluran Cengkareng drainage channel																															
Right	SCM-1R	CM15+10m	1.632	-0.398	1.989	1.3	0.204	11.811	8.300	9.193	5.193	1.193	5.918	1.600	2.350	1.000	1.096	2.029	4.429	3.698	3.629		0.110	Level	1.2	1.2	0.583	2.785	2.029	1.496	2.650
(4) Gede/Bor drainage channel																															
Right	SGM-1R	GM04+46m	2.609	1.032	3.018	2.40	1.532	11.157	5.900	8.337	4.337	0.994	5.663	1.200	2.350	0.800	0.668	1.578	3.978	3.458	3.178		0.110	Level	0.8	0.8	0.658	2.388	1.578	1.288	2.450
Right	SCM-2R	CM12+0m	2.930	1.389	3.343	2.60	1.689	11.162	5.900	8.422	4.422	0.977	5.705	1.200	2.350	0.800	0.911	1.541	3.941	3.511	3.141		0.110	Level	0.8	0.8	0.654	2.354	1.541	1.311	2.450

SLUICWAY AT REVETMENT TYPE II SITE, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-108

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L13 (m)	L14 (m)	L15 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)	S2 (m)	
(1) Kernal drainage channel (Main)																															
Left	SKM-3L	KM28+2m	0.850	-0.841	1.374	0.7	-0.541	10.987	6.600	9.783	8.783	1.108	4.991	1.900	2.350	1.150	1.241	1.691	4.091	3.241	3.291		0.110	Level	1.5	1.3	0.815	2.615	1.691	1.641	2.800

SLUICWAYS AT REVETMENT TYPE II SITES, 1 LANE, FLAP GATE, DWG. NO. J-30-10-109

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	L12 (m)	L13 (m)	L14 (m)	L15 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)	S2 (m)			
(1) Kernal drainage channel (Branch)																																	
Left	SKL-2L	KE12+32m	1.838	0.819	2.174	1.8	1.274	10.284	5.500	7.252	4.252	0.777	5.007	1.100	2.200	0.600	0.528	0.608	2.658	3.128	1.758		0.978	1.478	0.110	Level	0.4	0.4	0.500	1.955	1.217	0.925	2.250
Right	SKL-3L	KE13+0m	1.916	0.697	2.242	1.6	1.342	10.218	5.500	7.116	4.116	0.773	4.945	1.100	2.200	0.600	0.458	0.610	2.660	3.058	1.760		0.908	1.408	0.110	Level	0.4	0.4	0.500	1.945	1.219	0.858	2.250

SLUICWAYS AT OPEN CULVERT/CONCRETE DITCH SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-110

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)	H4 (m)					
(1) PJK Junction drainage channel																															
Right	SNM-1R	NM34+0m	1.973	0.308	2.273	1.500	0.808	6.932	8.684	0.300	6.092	0.950	0.892	3.492	2.342	2.842	1.242	0.110	Level	1.1	1.1		2.365	0.400	1.665	1.292					
(2) Saluran Cengkareng drainage channel																															
Left	SCM-1L	CM35+5m	1.381	-0.677	1.726	1.300	-0.127	7.577	10.053	0.400	6.577	1.050	1.477	4.077	3.027	3.527	1.827	0.110	Level	1.3	1.3		2.703	0.500	1.903	1.877					

SLUICWAYS AT OPEN CULVERT/CONCRETE DITCH SITES, 1 LANE, FLAP GATE, DWG. NO. J-30-10-111

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)							
(1) Kernal drainage channel (Branch)																															
Left	SKL-3L	KE31+43m	2.645	1.551	2.925	2.500	2.025	8.100	7.200	3.200	5.200	0.600	0.500	8.300	3.100	0.900	0.110	Level	0.4	0.4	0.500	1.400	0.900								
Right	SKL-3R	KE31+0m	2.649	1.575	2.925	2.500	2.025	8.100	7.200	3.200	5.200	0.800	0.500	8.300	3.100	0.900	0.110	Level	0.4	0.4	0.500	1.400	0.900								

SLUICWAY AT CONCRETE L-TYPE WALL SITE, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-113

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)	H4 (m)			
(1) Tanjung drainage channel																															
Right	STM-3R	TM35+0m	0.608	-0.817	1.024	-0.800	-0.517	-0.448	0.924	18.740	9.200	5.000	2.340	4.000	0.800	6.140	6.340	2.500	3.100	0.110	60		0.8	0.20	0.20	0.25	2.241	1.841	1.770	1.200	

SLUICWAYS AT CONCRETE L-TYPE WALL SITES, 1 LANE, SLIDE GATE, DWG. NO. J-30-10-114

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)							
(1) Tanjung drainage channel																															
Left	STM-3L	TM30+16m	0.504	-0.868	0.929	0.400	-0.588	12.185	8.578	8.189	0.800	0.988	3.588	2.288	2.788	1.338	0.110	Level	0.8	0.8	0.717	1.817	1.308								
Right	STM-4L	TM33+13m	0.544	-0.861	0.865	0.200	-0.561	11.961	8.323	5.981	0.900	0.761	3.361	2.161	2.661	1.111	0.110	Level	1.0	1.0	0.527	1.627	1.161								

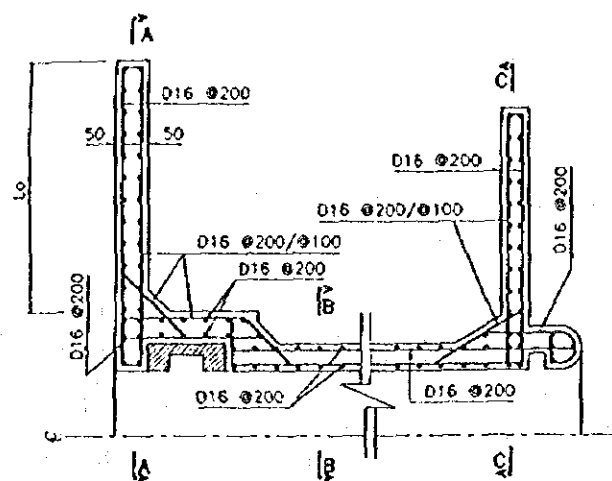
SLUICWAY AT CONCRETE L-TYPE WALL SITE, 1 LANE, FLAP GATE, DWG. NO. J-30-10-115

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	EL5 (m)	EL6 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	L11 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)	H4 (m)			
(1) Tanjung drainage channel																															
Right	STM-2R	TM30+3m	0.500	-0.890	0.926	0.100	-0.290	-0.139	0.828	15.930	8.800	5.000	1.530	4.000	0.600	5.630	6.230	2.500	2.900	0.110	40		0.4	0.15	0.15	0.15	2.216	1.816	1.365	0.800	

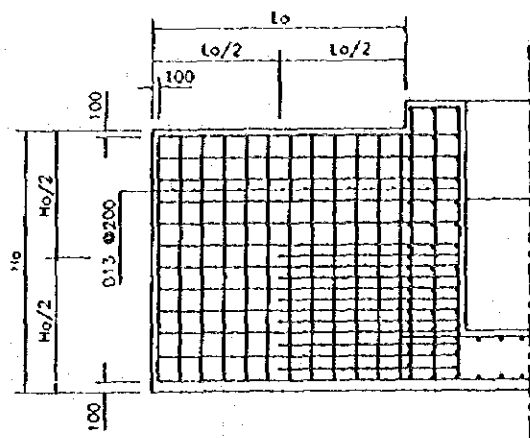
SLUICWAY AT CONCRETE L-TYPE WALL SITE, 2 LANES, SLIDE GATE, DWG. NO. J-30-10-116

Left/Right	No.	Location	HWL (m)	EL1 (m)	EL2 (m)	EL3 (m)	EL4 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	L7 (m)	L8 (m)	L9 (m)	L10 (m)	n	B0 (m)	H0 (m)	L1 (m)	H1 (m)	H2 (m)	H3 (m)							
(1) Tanjung drainage channel																															
Left	STM-2L	TM30+10m	0.486	-0.893	0.922	-0.100	-0.593	11.693	9.186	5.693	1.600	0.463	3.093	2.593	3.093	0.643	0.110	Level	1.0	1.0	0.515	1.815	0.893								

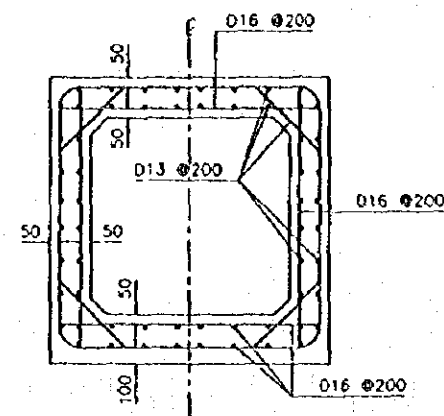
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES (2/2)	APPROVED
CHECKED.....			
SUBMITTED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-202	DATE
REFERENCE DWG.....			



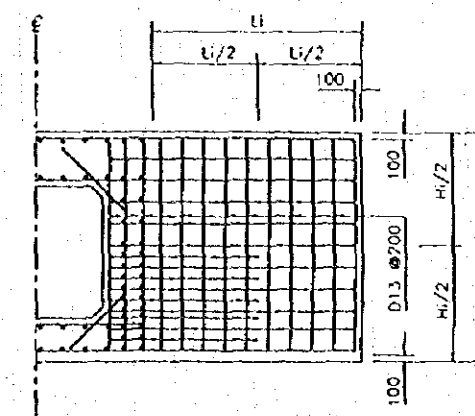
PLAN



SECTION A-A



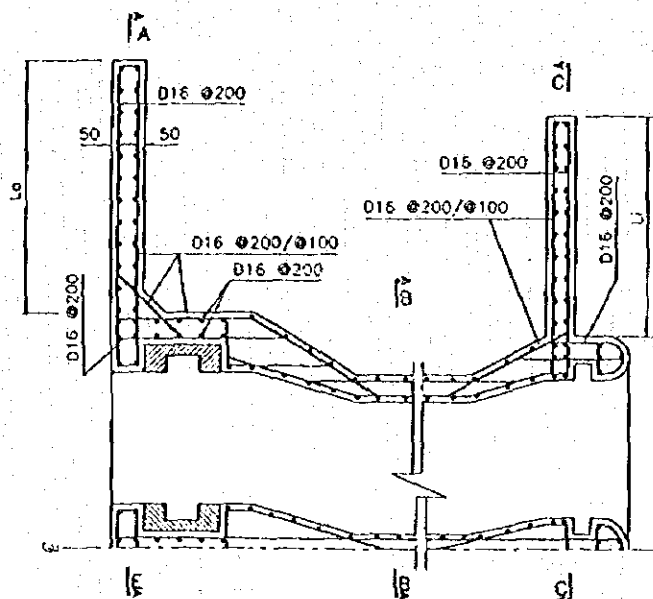
SECTION B-B



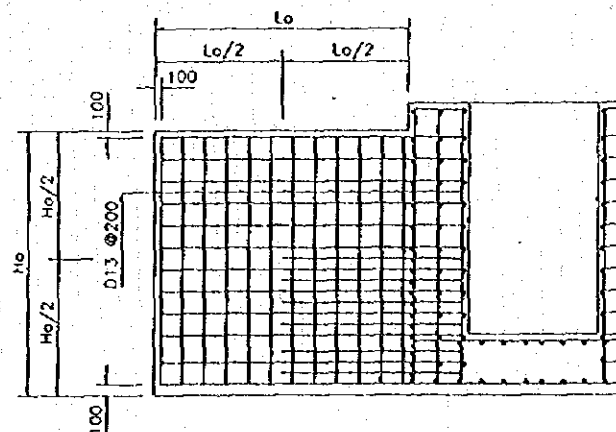
SECTION C-C

SLUICEWAYS AT LEVEL RTH TYPE SITES (1 LANE)

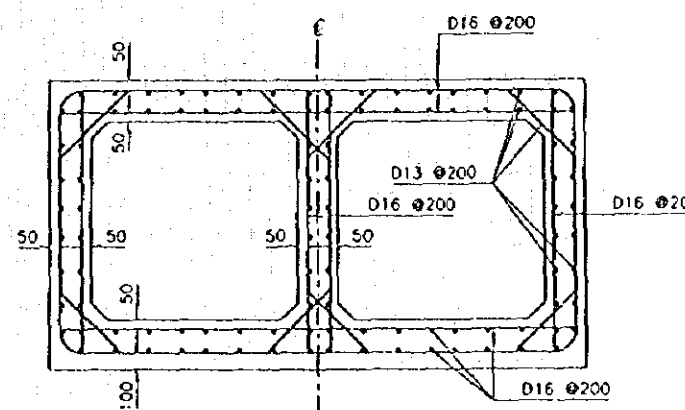
Ref. DWG. NO. 30-10-101



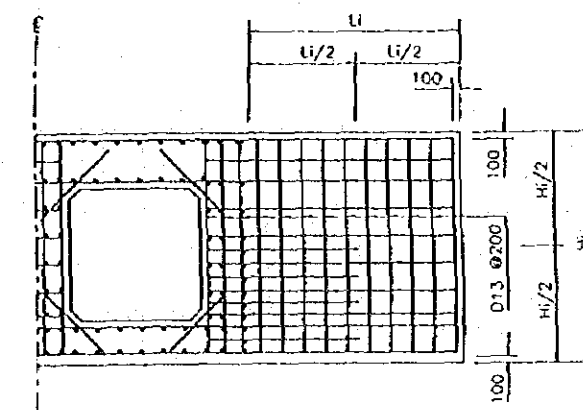
PLAN



SECTION A-A



SECTION B-B



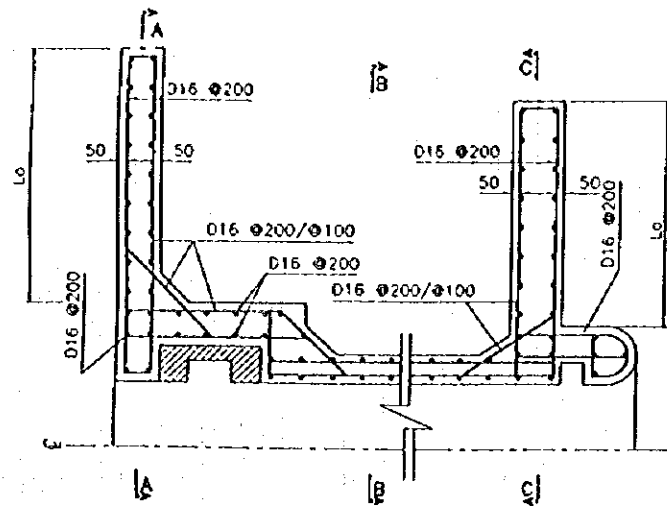
SECTION C-C

SLUICEWAYS AT LEVEL RTH TYPE SITES (2 LANES)

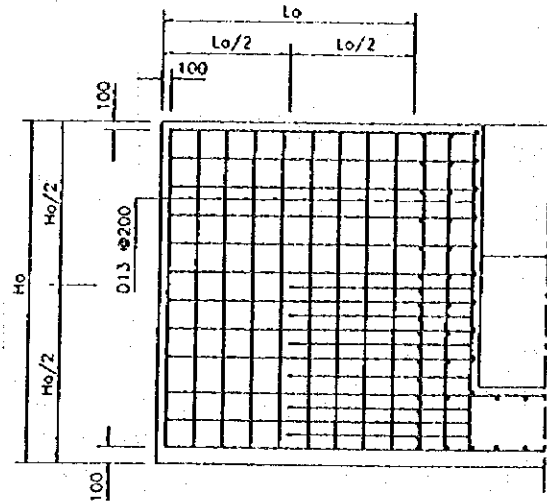
Ref. DWG. NO. 30-10-102

Note :
- For the No. and location of each sluiceway, see the drawings titled "DRAINAGE FACILITIES, SLUICeway, DIMENSION TABLES"

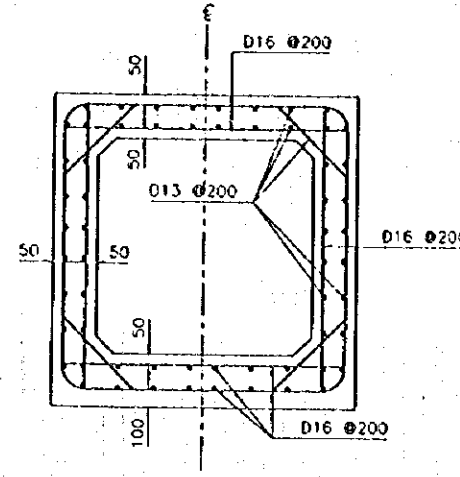
REFERENCE	DWG.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICeway REINFORCING BAR ARRANGEMENT (1/5)	APPROVED
		CHECKED.....			
		SUBMITTED.....			
		DATE.....			
			JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-301	DATE



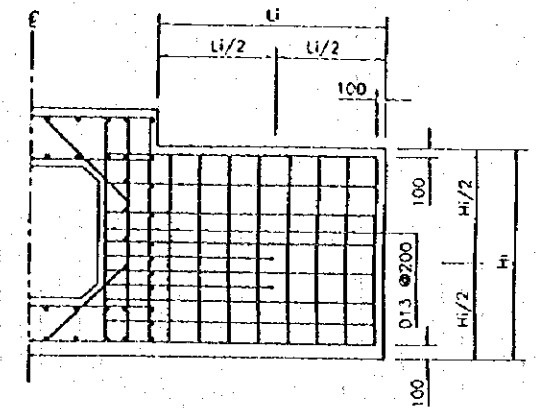
PLAN



SECTION A-A



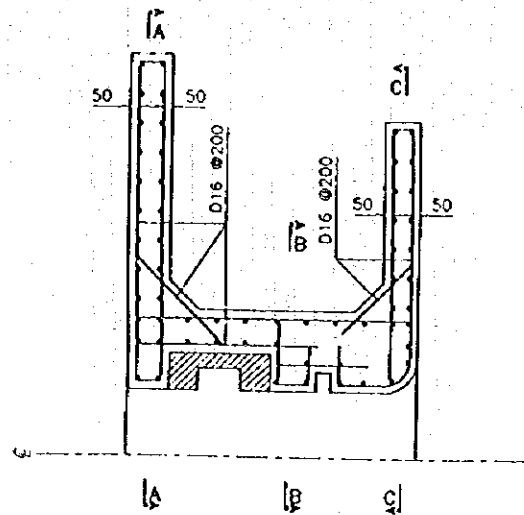
SECTION B-B



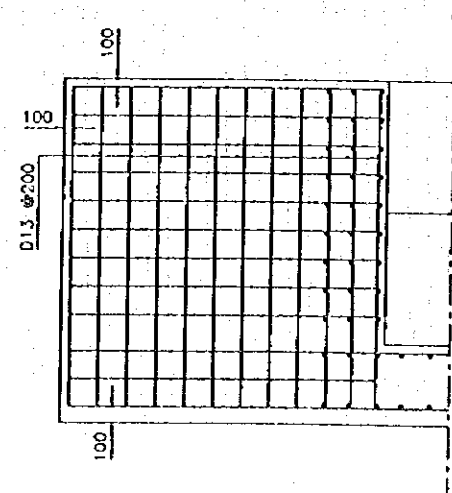
SECTION C-C

SLUCEWAYS AT LEVEE-RAPET WALL TYPE SITES (1 LANE)

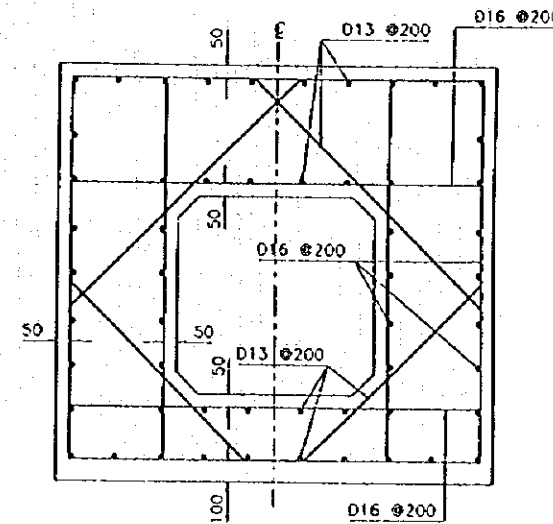
Ref. D. NO. J-30-10-103



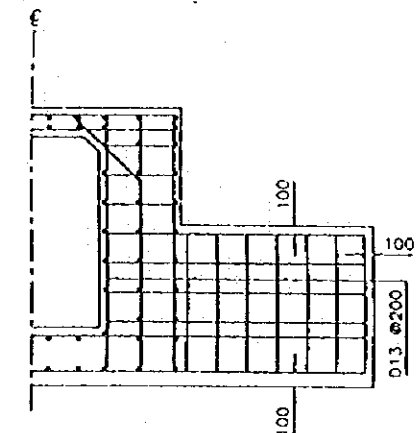
PLAN



SECTION A-A



SECTION B-B



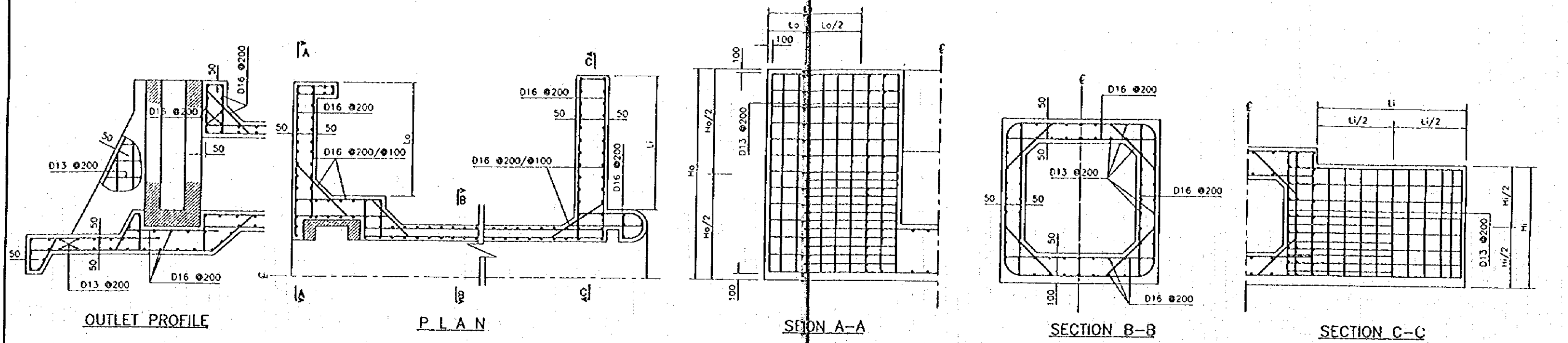
SECTION C-C

SLUCEWAYS AT LEVEE-RAPET WALL TYPE SITES (1 LANE)

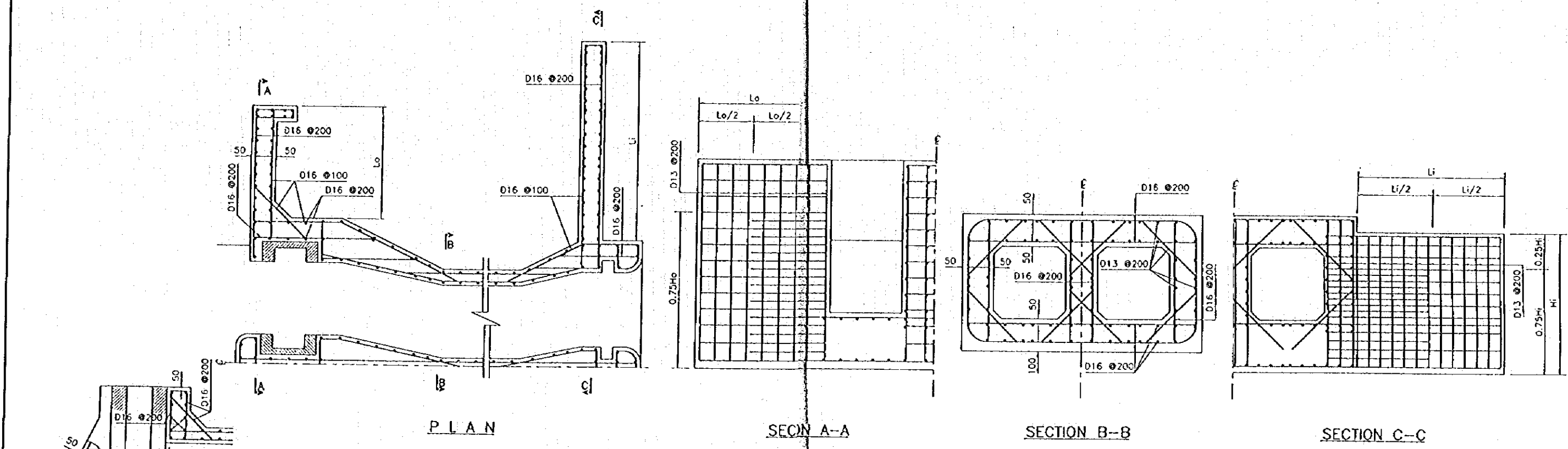
Ref. D. NO. J-30-10-104

Note - For the No. and location of each sluceway, see the drawings titled "DRAINAGE FACILITIES, SLUCEWAY, DIMENSION TABLES"

PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUCEWAY REINFORCING BAR ARRANGEMENT (2/5)	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-302	DATE
SUBMITTED.....			
REFERENCE	D.M.O.		
	DATE.....		



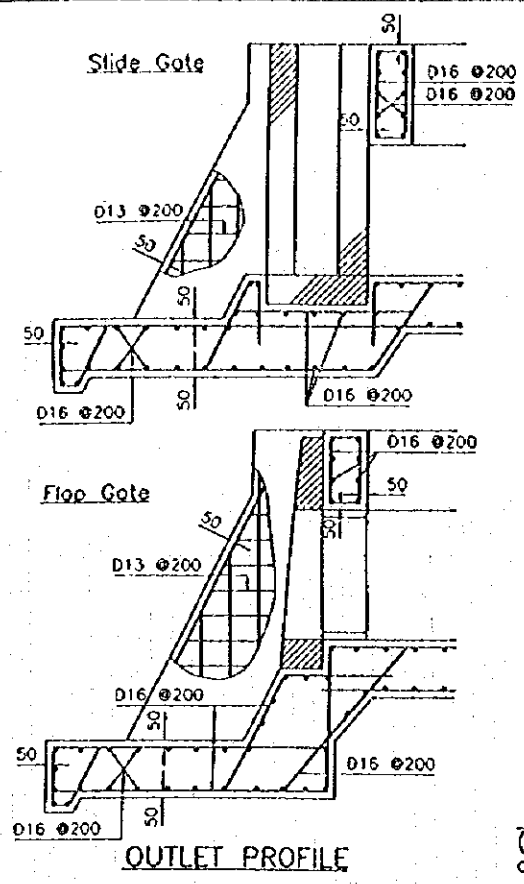
SLUICWAYS AT REVETMENT TYPE I, II SITES (1 LANE)
 Ref. DWG. NOS. 30-10-105 and J-30-10-106



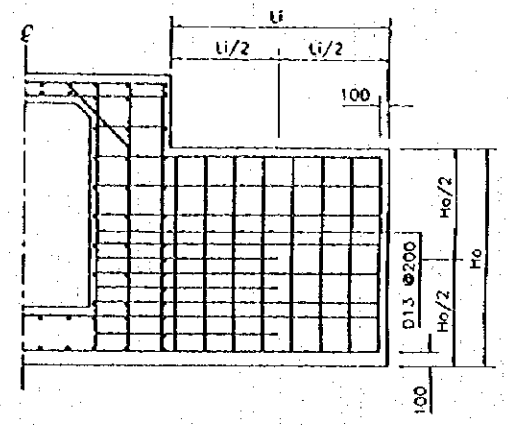
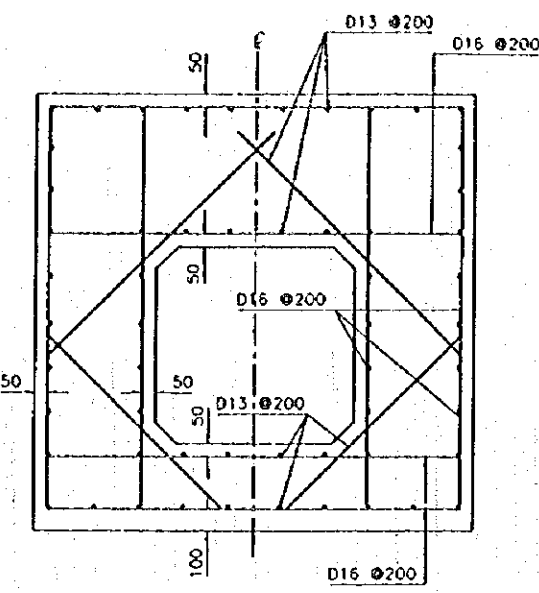
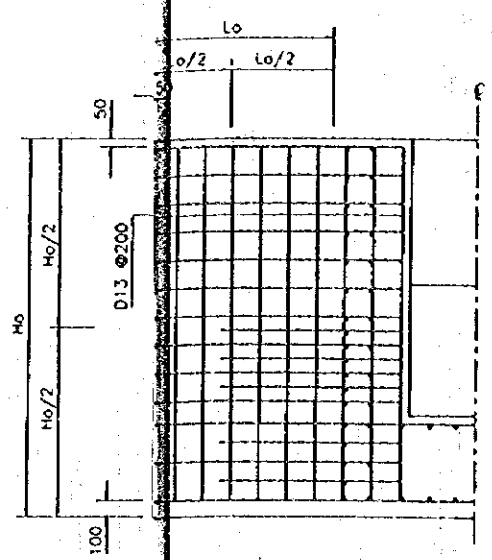
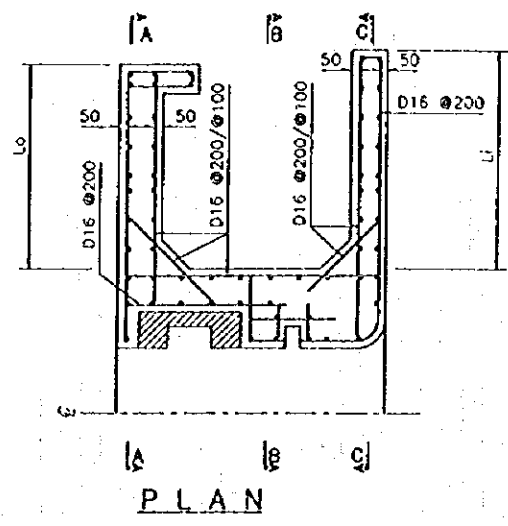
SLUICWAYS AT REVETMENT TYPE II SITES (2 LANES)
 Ref. DWG. NO. 30-10-110

Note: For the No. and location of each sluiceway, see the drawings titled "DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES"

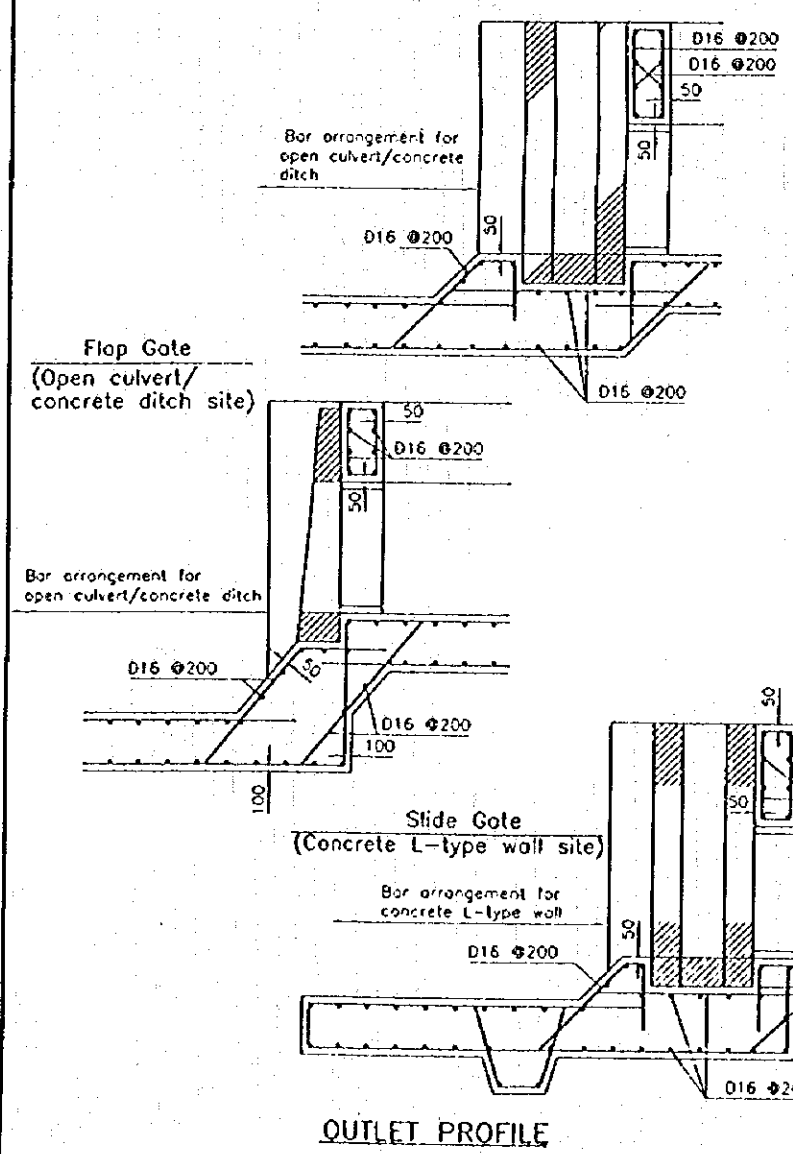
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY REINFORCING BAR ARRANGEMENT (3/5)	APPROVED
CHECKED.....		DWG NO. J-30-10-303	DATE
SUBMITTED.....			
REFERENCE DWG. NO. DATE.....			



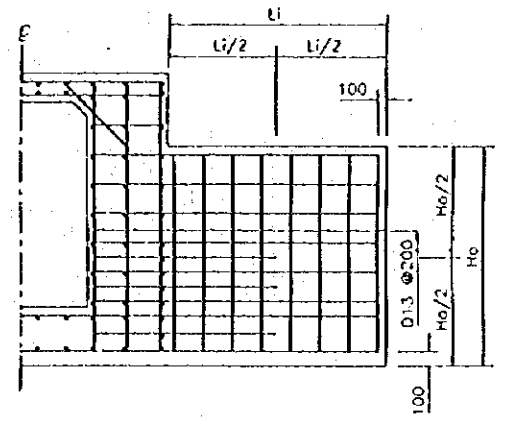
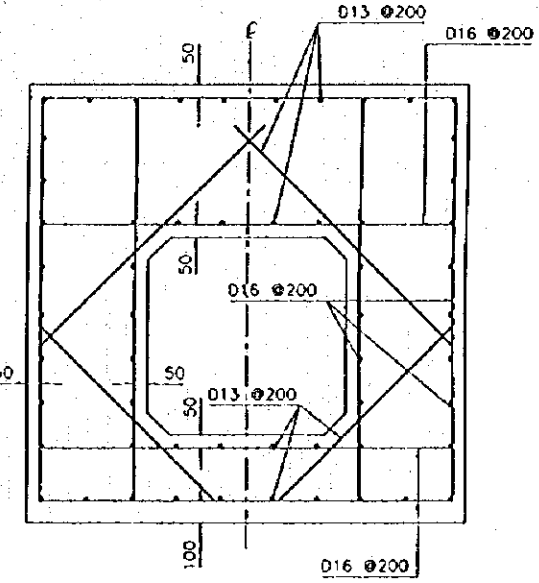
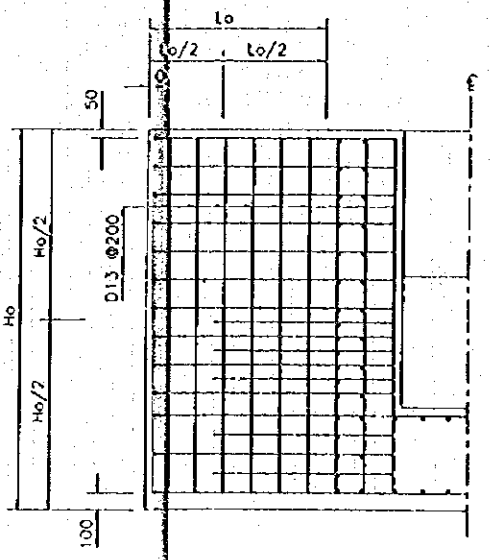
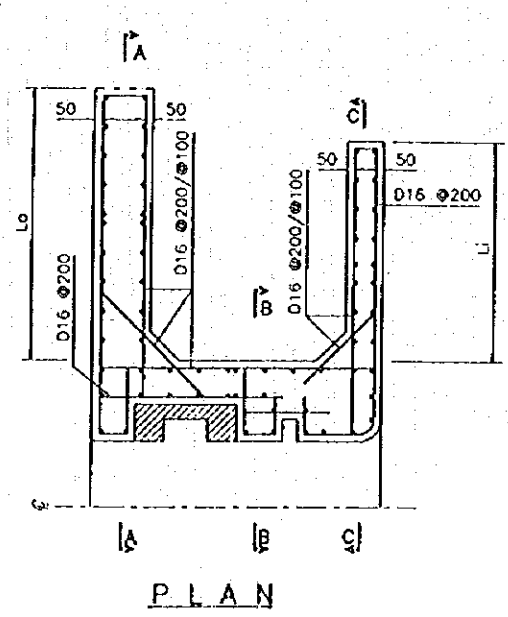
Slide Gate
(Open culvert/
concrete ditch site)



SLUICWAYS REVETMENT TYPE II SITES (1 LANE)
Ref. DWG. NOS. J-30-10-107, J-30-10-108 and J-30-10-109



Slide Gate
(Concrete L-type wall site)



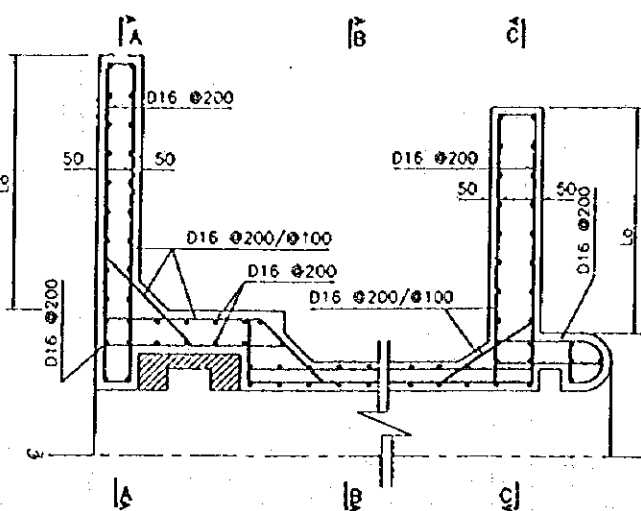
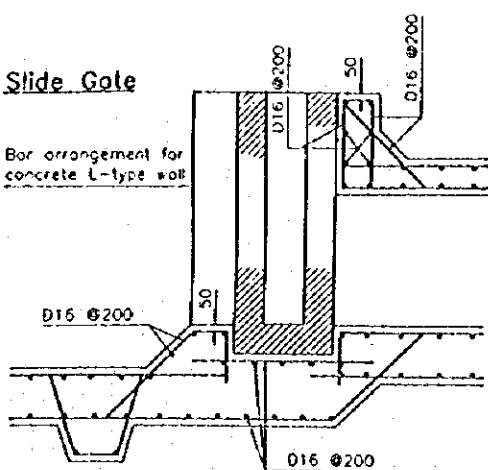
SLUICWAYS AT OPEN CULVERT & CONCRETE DITCH, CONCRETE L-TYPE WALL SITES (1 LANE)
Ref. DWG. NOS. J-30-10-111, J-30-10-112 and J-30-10-114

Note:
- For the No. and location of each sluiceway, see the drawings titled "DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES"

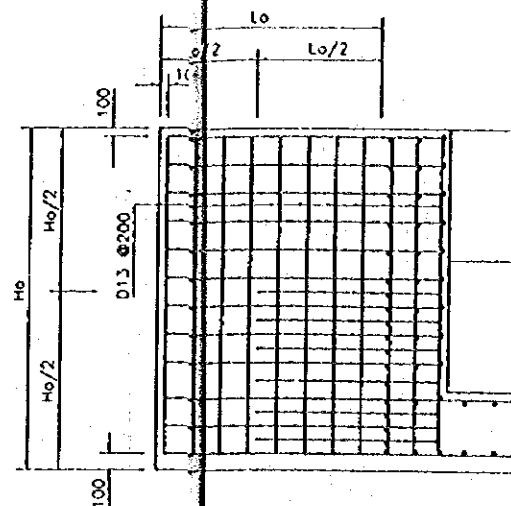
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY REINFORCING BAR ARRANGEMENT (4/5)	APPROVED
CHECKED	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-304	DATE
SUBMITTED			
DATE			
REFERENCE	DWG		

Slide Gate

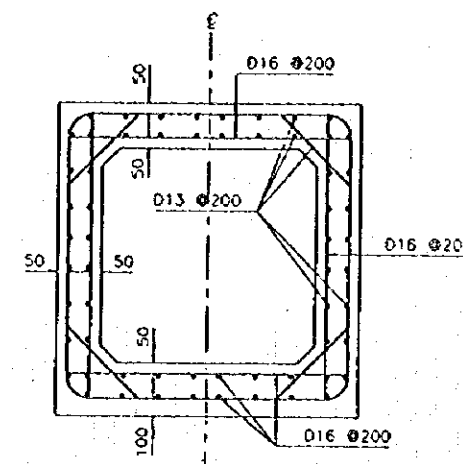
Bar arrangement for concrete L-type wall



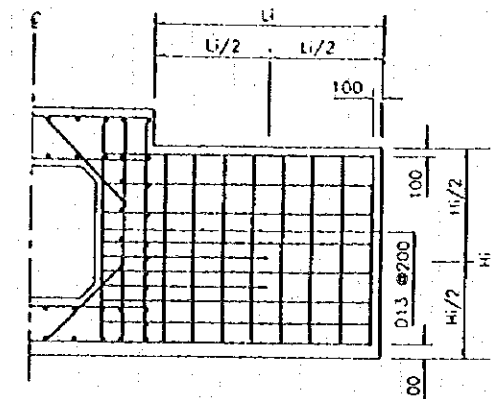
PLAN



SECTION A-A



SECTION B-B



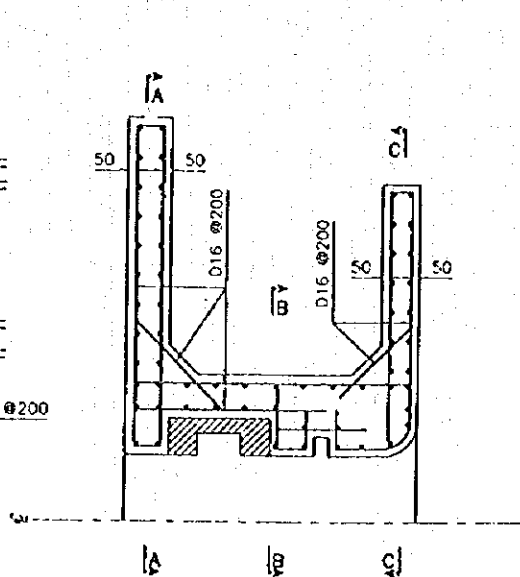
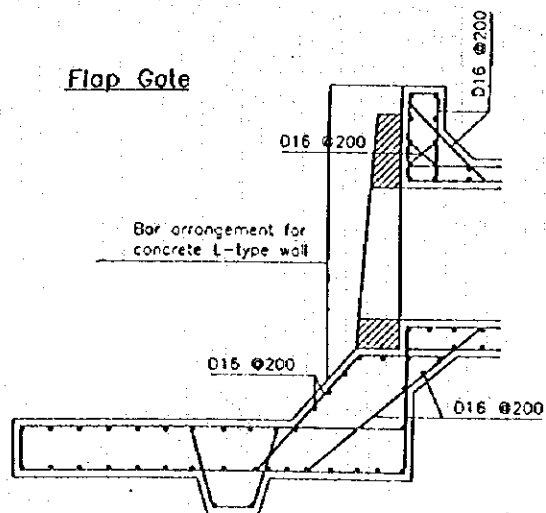
SECTION C-C

SLUICEWAYS AT CONCRETE L-TYPE WALL TYPE SITES (1 LANE)

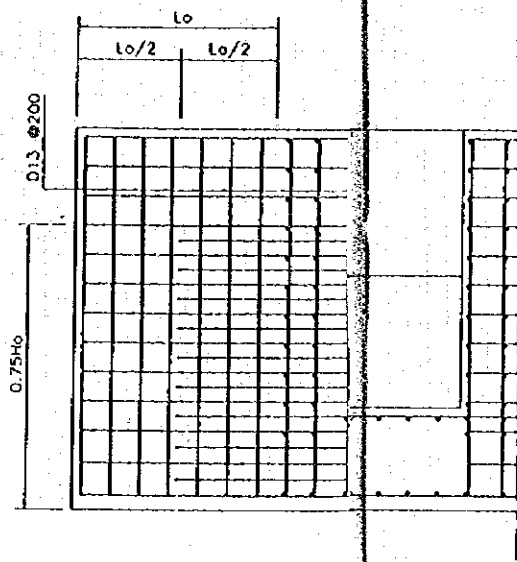
Ref. DWG. NOS. J-30-10-113 and J-30-10-115

Flop Gate

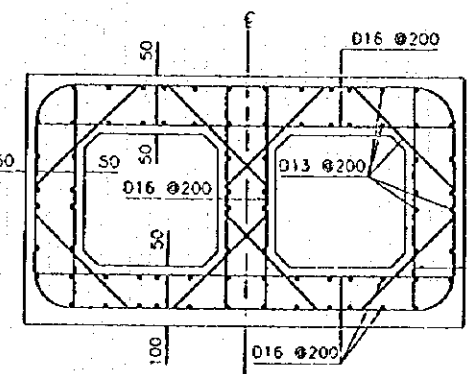
Bar arrangement for concrete L-type wall



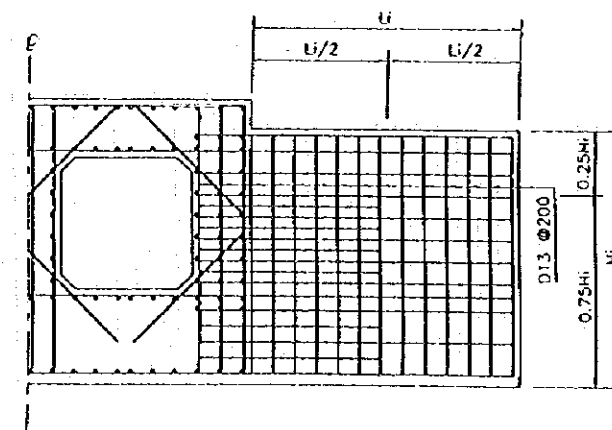
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

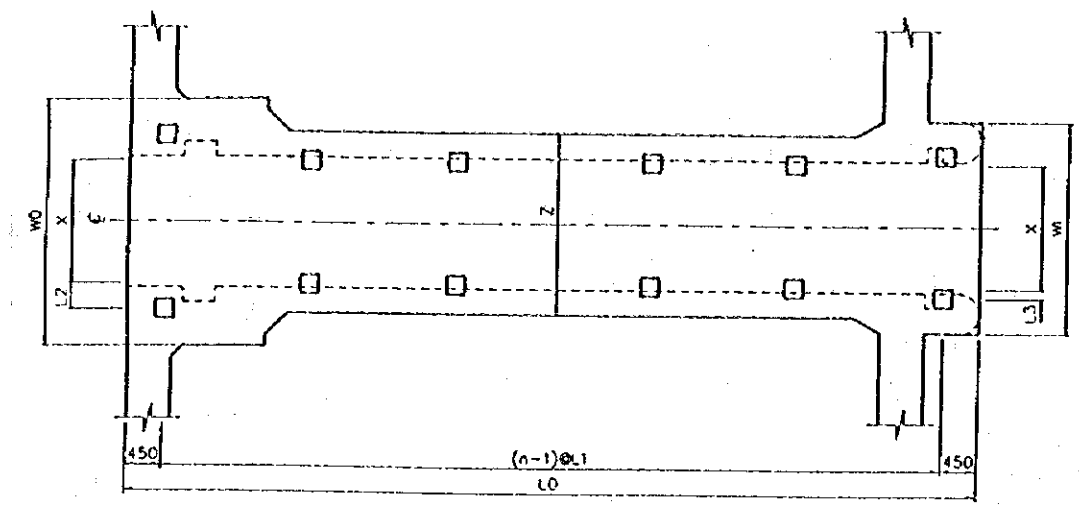
OUTLET PROFILE

SLUICEWAYS AT CONCRETE L-TYPE WALL TYPE SITES (2 LANES)

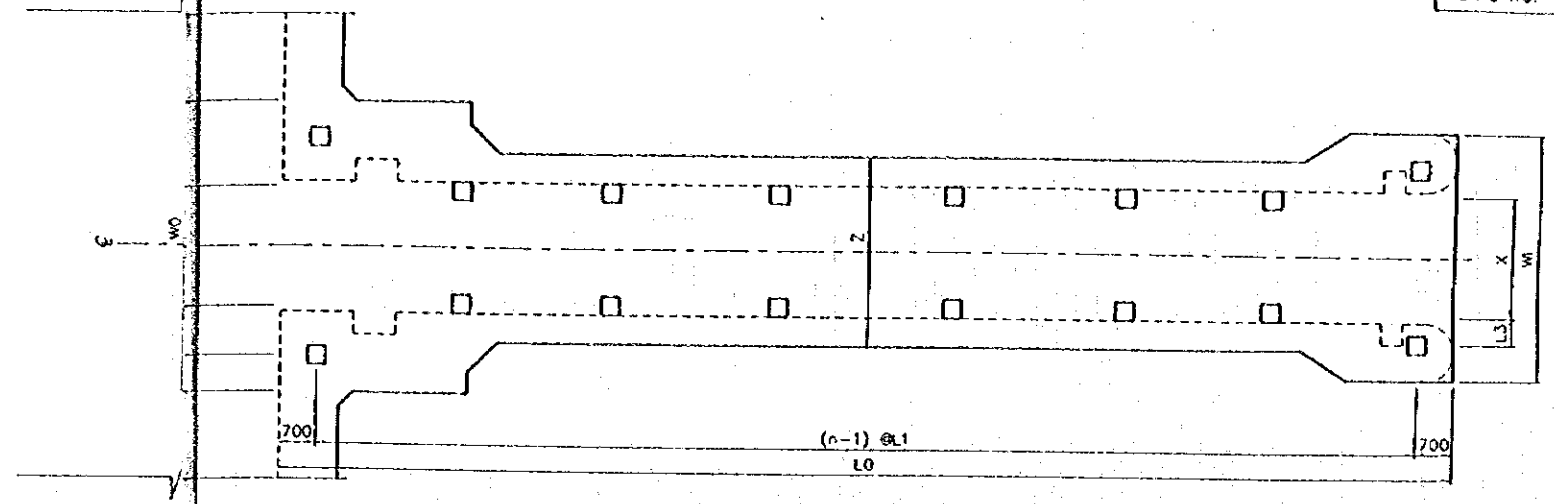
Ref. DWG. NO. J-30-10-116

Note :
- For the No. and location of each sluiceway, see the drawings titled "DRAINAGE FACILITIES, SLUICeway, DIMENSION 148.ES"

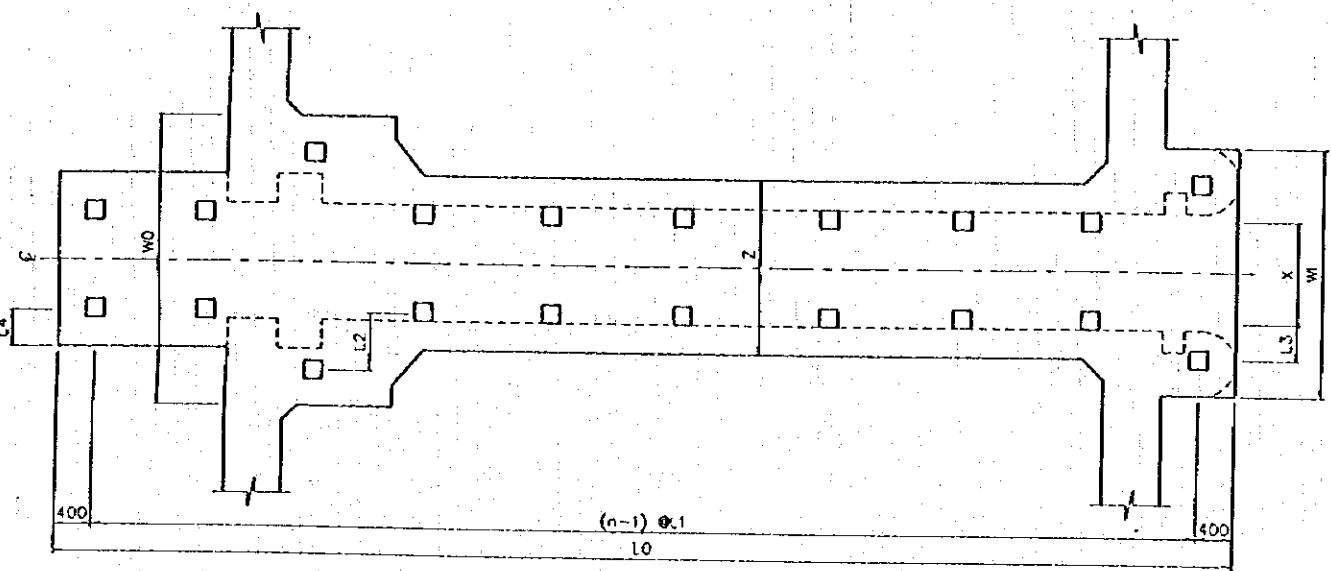
REFERENCE	DWG. NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICeway REINFORCING BAR ARRANGEMENT (5/5)	APPROVED
		CHECKED.....			
		SUBMITTED.....			
		DATE.....			
			JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG. NO. J-30-10-305	DATE



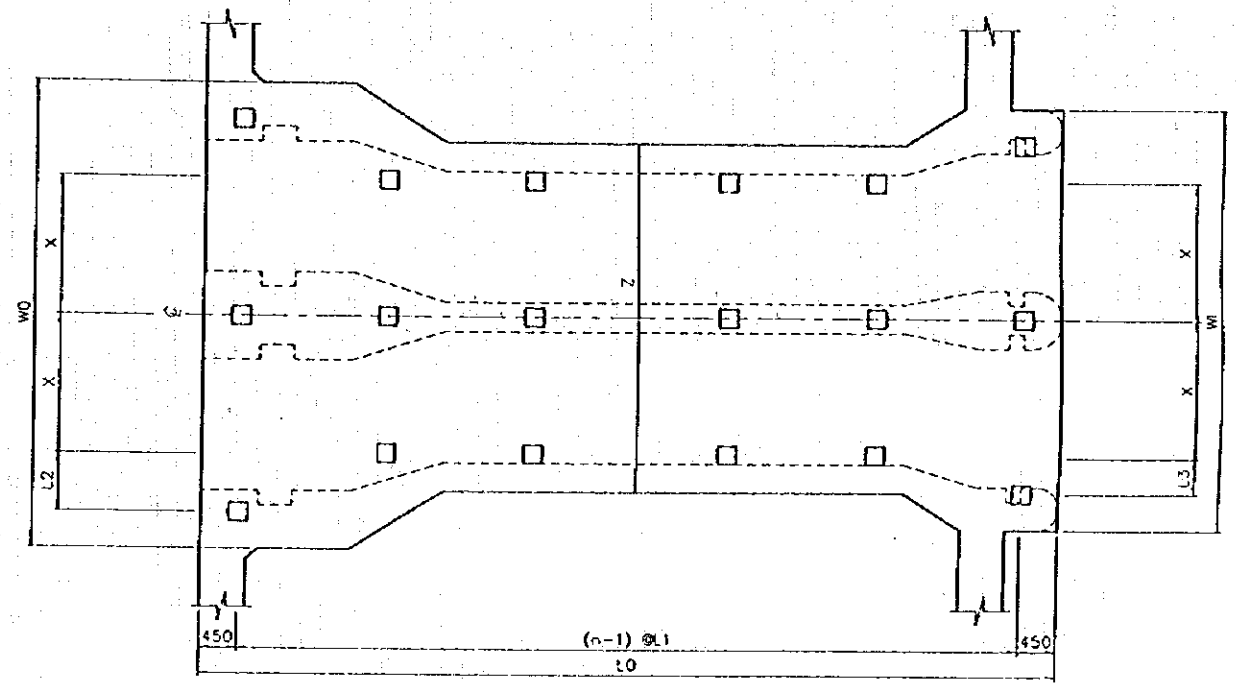
TYPE - A



TYPE - C



TYPE - B



TYPE - D

TYPE-A

(a) LEVEE EARTH TYPE SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wl (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line
(1) Kamal drainage channel (Main channel)												
Left	SKM-4L	KM29+19m	250x250	6.0	1.60	1.90	0.63	7.81	1.38	0.29	0.14	6
	SKM-5L	KM31+55m	250x250	6.0	1.80	2.10	1.50	0.88	7.82	1.38	0.27	8
	SKM-8L	KM46+35m	250x250	6.0	1.80	2.10	1.50	0.88	7.93	1.41	0.27	8
Right	SKM-2R	KM21+6m	250x250	7.0	2.00	2.30	1.70	1.06	5.83	1.64	0.27	12
	SKM-3R	KM27+42m	250x250	8.0	2.10	2.40	1.80	1.16	5.78	0.81	0.27	7
(2) Saluran Cengkering drainage channel												
Left	SCM-3L	CM20+10m	250x250	8.0	1.80	2.10	1.50	0.88	7.45	0.82	0.27	9
	SCM-5L	CM30+0m	250x250	6.0	1.80	2.10	1.50	0.88	5.52	1.54	0.27	4
	SCM-6L	CM37+30m	250x250	6.0	1.90	2.20	1.60	0.98	7.58	1.34	0.27	6
	SCM-7L	CM41+0m	250x250	6.0	1.90	2.20	1.60	0.98	7.82	1.34	0.27	6
Right	SCM-4R	CM30+0m	250x250	8.0	1.80	2.10	1.50	0.88	7.52	1.32	0.27	6
	SCM-5R	CM37+0m	250x250	8.0	1.80	2.10	1.50	0.88	5.58	1.58	0.27	4
	SCM-6R	CM43+30m	250x250	6.0	1.90	2.20	1.60	0.98	5.64	1.58	0.27	4

(b) LEVEE PARAPET WALL TYPE SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wl (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line
(1) Kamal drainage channel (Main channel)												
Left	SKM-6L	KM38+3m	250x250	6.0	1.80	2.10	1.50	0.88	7.20	1.26	0.27	6
	SKM-7L	KM42+7m	250x250	6.0	1.50	1.80	1.10	0.63	7.20	1.26	0.24	6

TYPE-B

(a) REVETMENT TYPE I SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wl (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	Pile nos/line
(1) Kamal drainage channel (Main channel)													
Right	SKM-4R	KM40+32m	250x250	6.0	1.60	1.90	0.63	6.35	1.39	0.28	0.14	0.28	5
(2) Kamal drainage channel (Branch channel)													
Left	SKM-4L	KE25-5m	250x250	7.0	1.60	1.90	0.63	6.04	1.31	0.28	0.14	0.28	5
Right	SKM-2R	KE25-5m	250x250	7.0	1.70	2.00	0.78	9.04	1.18	0.27	0.12	0.32	6
(3) Saluran Cengkering drainage channel													
Left	SCM-8L	CM47+34m	250x250	6.0	1.70	2.00	0.78	6.37	1.39	0.27	0.12	0.32	5
Right	SCM-7R	CM47+34m	250x250	6.0	1.60	1.90	0.63	9.37	1.22	0.28	0.14	0.28	6
(4) Gede/Box drainage channel													
Left	SCM-1L	GM12+0m	250x250	6.0	1.80	1.90	0.63	9.28	1.21	0.29	0.14	0.28	6

(b) REVETMENT TYPE II SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wl (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line
(1) Kamal drainage channel (Main channel)												
Left	SKM-1L	KM20+15m	250x250	7.0	2.00	2.30	0.98	13.68	1.61	0.27	0.12	9
	SKM-2L	KM24+35m	250x250	8.0	1.90	2.20	0.98	9.41	1.72	0.27	0.12	6
Right	SKM-5R	KM45+6m	250x250	8.0	1.60	1.90	0.63	9.27	1.21	0.29	0.14	8
	SKM-6R	KM50+31m	250x250	8.0	1.60	1.90	0.63	9.39	1.23	0.29	0.14	8
	SKM-7R	KM54+28m	250x250	6.0	1.80	2.10	0.88	8.98	1.36	0.27	0.12	7
(2) Gede/Box drainage channel												
Left	SCM-3L	GM15+24m	250x250	6.0	1.60	1.90	0.63	11.34	1.17	0.29	0.14	10

TYPE-C

(a) CONCRETE L-TYPE WALL SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wl (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line
(1) Tanjung drainage channel												
Right	STM-3R	TM35+0m	250x250	9.0	1.60	1.90	0.63	7.84	0.89	0.29	0.14	8

(b) CONCRETE L-TYPE WALL SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wl (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line	
(1) Tanjung drainage channel													
Right	STM-2R	TM30+3m	250x250	8.0	1.2	1.3	0.7	0.00	6.83	0.91	0.30	0.25	7

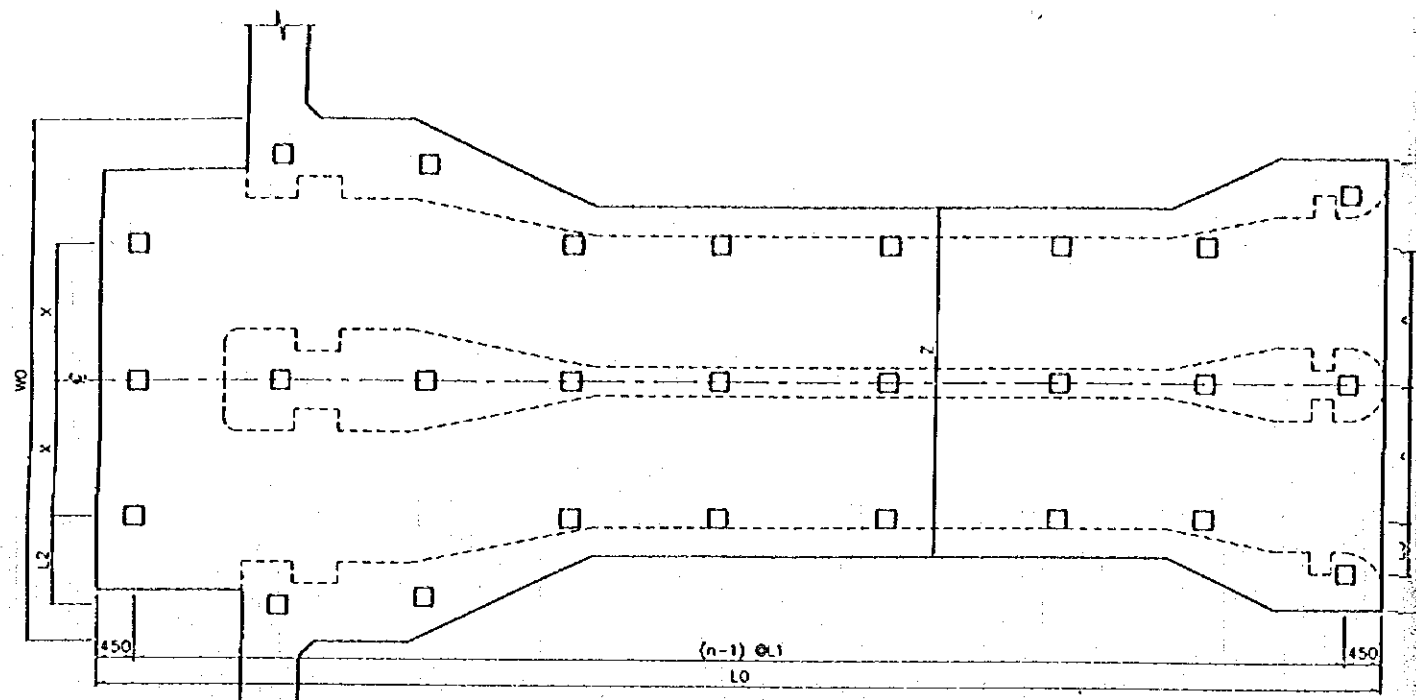
TYPE-D

LEVEE EARTH TYPE SITE

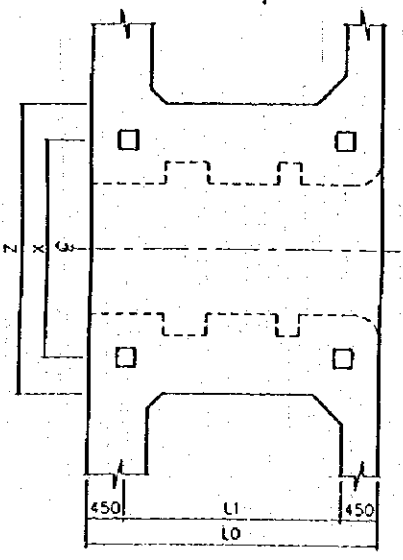
Left/Right	No.	Location	RC Precast Pile Size L(m)	Wl (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line	
(1) Kamal drainage channel (Main channel)													
Right	SKM-1R	KM17-20m	250x250	9.0	3.60	4.10	2.95	1.78	5.86	1.24	0.55	0.30	5
(2) Saluran Cengkering drainage channel													
Left	SCM-2L	CM16+12m	250x250	7.0	1.60	1.90	0.63	7.44	1.63	0.47	0.27	5	

NOTE:
- Pile arrangement shall be adjusted with the Engineer's approval based on results of geo-technical investigation to be undertaken by the Contractor.

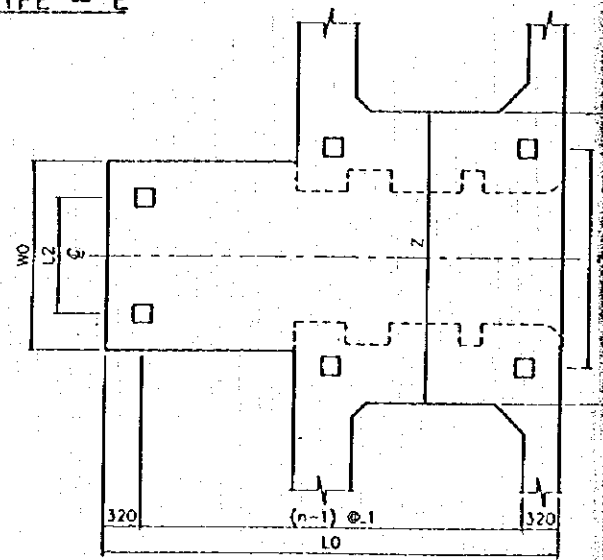
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY PILE ARRANGEMENT (1/2)	APPROVED
CHECKED.....		OWG NO.	DATE
SUBMITTED.....		J-30-10-401	
REFERENCE DWG. DATE.....			



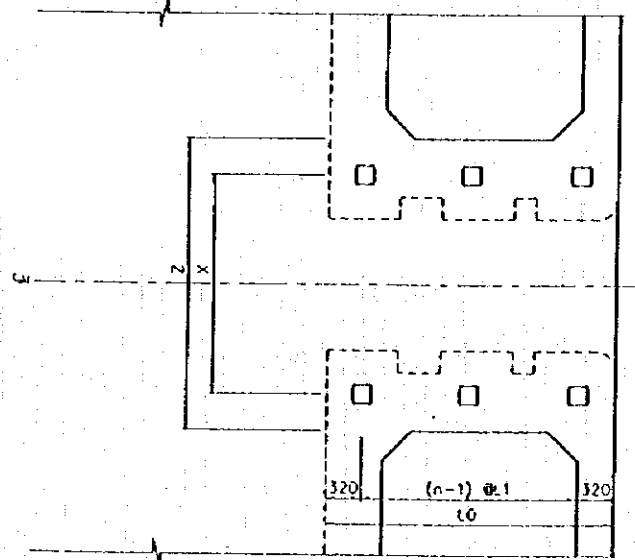
TYPE - E



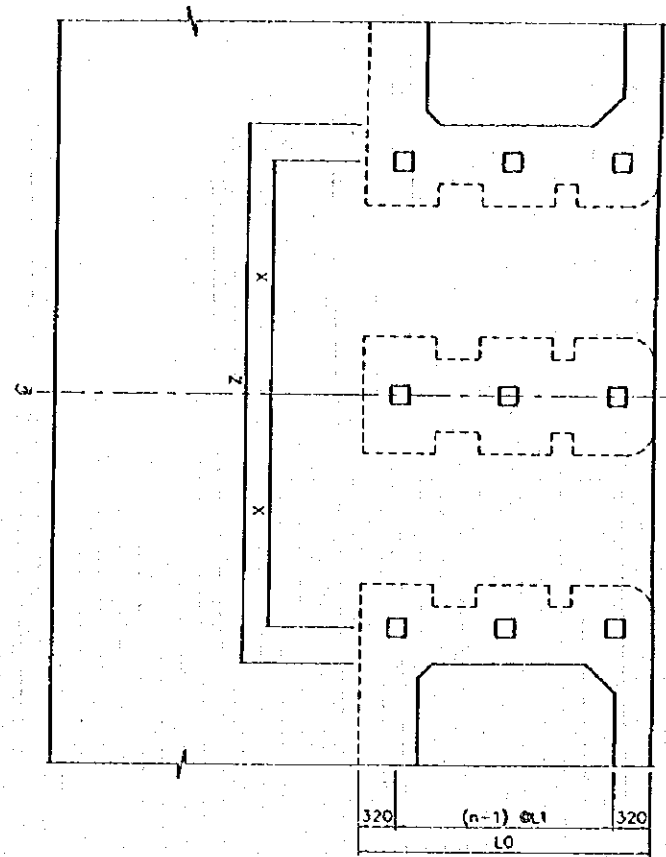
TYPE - F



TYPE - G



TYPE - H



TYPE - J

TYPE-E

REVETMENT TYPE II SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	W (t)	WO (m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line	
(1) Gede/Bor drainage channel (Branch channel)													
Left	ISGW-2L	KM14+5m	250x250	6.0	3.78	3.90	2.75	1.08	10.77	1.23	0.35	0.20	9

TYPE-F

LEVEE PARAPET WALL TYPE SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Saluran Cengkareng drainage channel										
Left	SCW-4L	CM27+21m	250x250	7.0	2.20	1.56	2.00	1.10	-	2
Right	SCW-2R	CM16+4m	250x250	7.0	2.30	1.66	2.00	1.10	-	2
Right	SCW-3R	CM26+1m	250x250	7.0	2.10	1.26	2.00	1.10	-	2

TYPE-G

(a) REVETMENT TYPE II SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	WO (m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Kamal drainage channel (Branch channel)											
Left	SKE-1L	KE01+5m	250x250	6.0	1.20	1.90	1.26	3.60	0.99	0.63	4
Right	SKE-1R	KE21+5m	250x250	7.0	1.20	1.90	1.26	3.59	0.98	0.63	4
(2) Tanjung drainage channel											
Left	STM-1L	TM25+13m	250x250	9.0	1.20	1.90	1.26	3.79	1.05	0.63	4
Right	STM-1R	TM25+13m	250x250	9.0	1.20	1.90	1.26	3.79	1.05	0.63	4
(3) Saluran Cengkareng drainage channel											
Right	ISCM-1R	CM15+10m	250x250	7.0	1.60	2.30	1.66	4.43	1.26	0.98	4
(4) Gede/Bor drainage channel											
Right	ISGW-1R	GM04+44m	250x250	6.0	1.20	1.90	1.26	3.68	1.11	0.63	4
Left	ISGW-2R	GM12+0m	250x250	6.0	1.20	1.90	1.26	3.94	1.10	0.63	4

(b) REVETMENT TYPE II SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	WO (m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Kamal drainage channel (Main channel)											
Left	ISXM-3L	KM26+2m	250x250	9.0	1.90	2.60	1.98	4.09	1.15	1.26	4

(c) REVETMENT TYPE II SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	WO (m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Kamal drainage channel (Branch channel)											
Left	SKE-2L	KE12+32m	250x250	7.0	1.10	1.30	0.66	2.66	1.01	0.63	3
Right	SKE-3L	KE13+0m	250x250	7.0	1.10	1.30	0.66	2.66	1.01	0.63	3

TYPE-H

(a) OPEN CULVERT/CONCRETE DITCH SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Kamal drainage channel (Branch channel)										
Left	SKE-5L	KE31+43m	250x250	5.0	1.30	0.66	1.50	0.66	-	2
Right	SKE-3R	KE31+0m	250x250	5.0	1.30	0.66	1.50	0.66	-	2

(b) OPEN CULVERT/CONCRETE DITCH SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Pk Junction drainage channel										
Right	SNM-1R	NM34+0m	250x250	8.0	2.20	1.56	2.00	0.68	-	3
(2) Saluran Cengkareng drainage channel										
Left	SCW-1L	CM05+5m	250x250	6.0	2.40	1.76	2.00	1.36	-	2

(c) CONCRETE L-TYPE WALL SITE

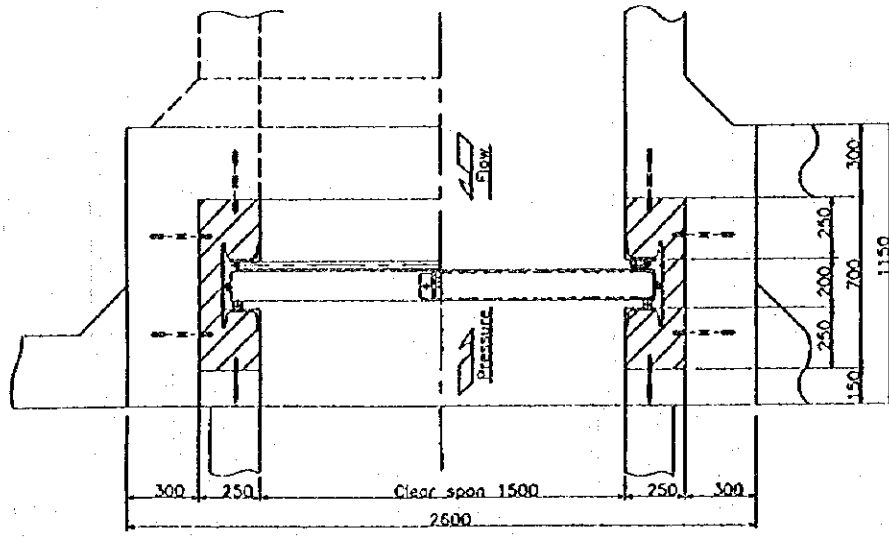
Left/Right	No.	Location	RC Precast Pile Size L(m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Tanjung drainage channel										
Left	STM-3L	TM30+16m	250x250	8.0	1.90	1.26	2.00	0.68	-	3
Left	STM-4L	TM33+13m	250x250	8.0	2.10	1.46	2.00	0.68	-	3

TYPE-I

CONCRETE L-TYPE WALL SITE

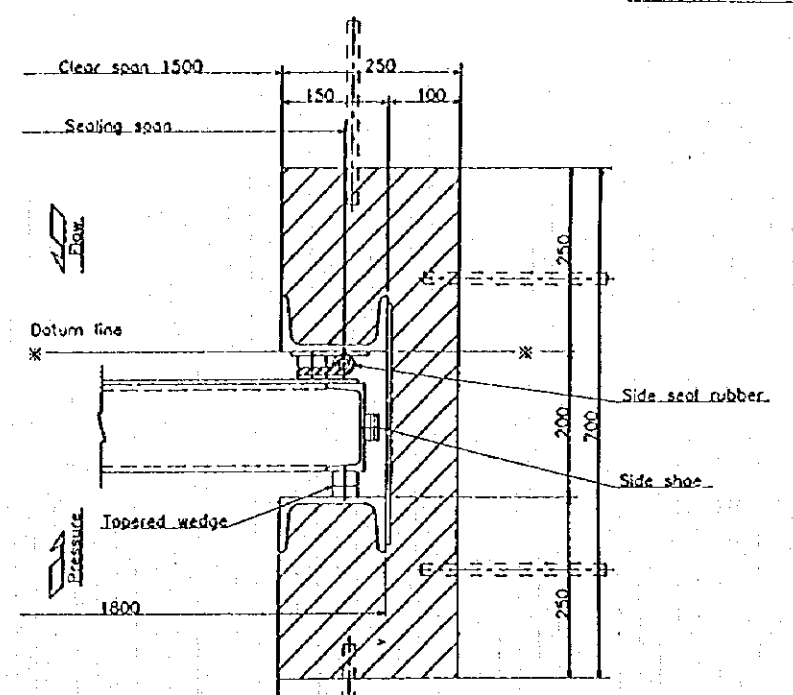
Left/Right	No.	Location	RC Precast Pile Size L(m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Tanjung drainage channel										
Left	STM-2L	TM30+10m	250x250	8.0	1.90	1.63	2.00	0.68	-	3

PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED	
CHECKED.....		DRAINAGE FACILITIES, SLUICWAY PILE ARRANGEMENT (2/2)		
SUBMITTED.....		DWG NO.		DATE
DATE.....		J-30-10-402		
REFERENCE	DWIO	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA		

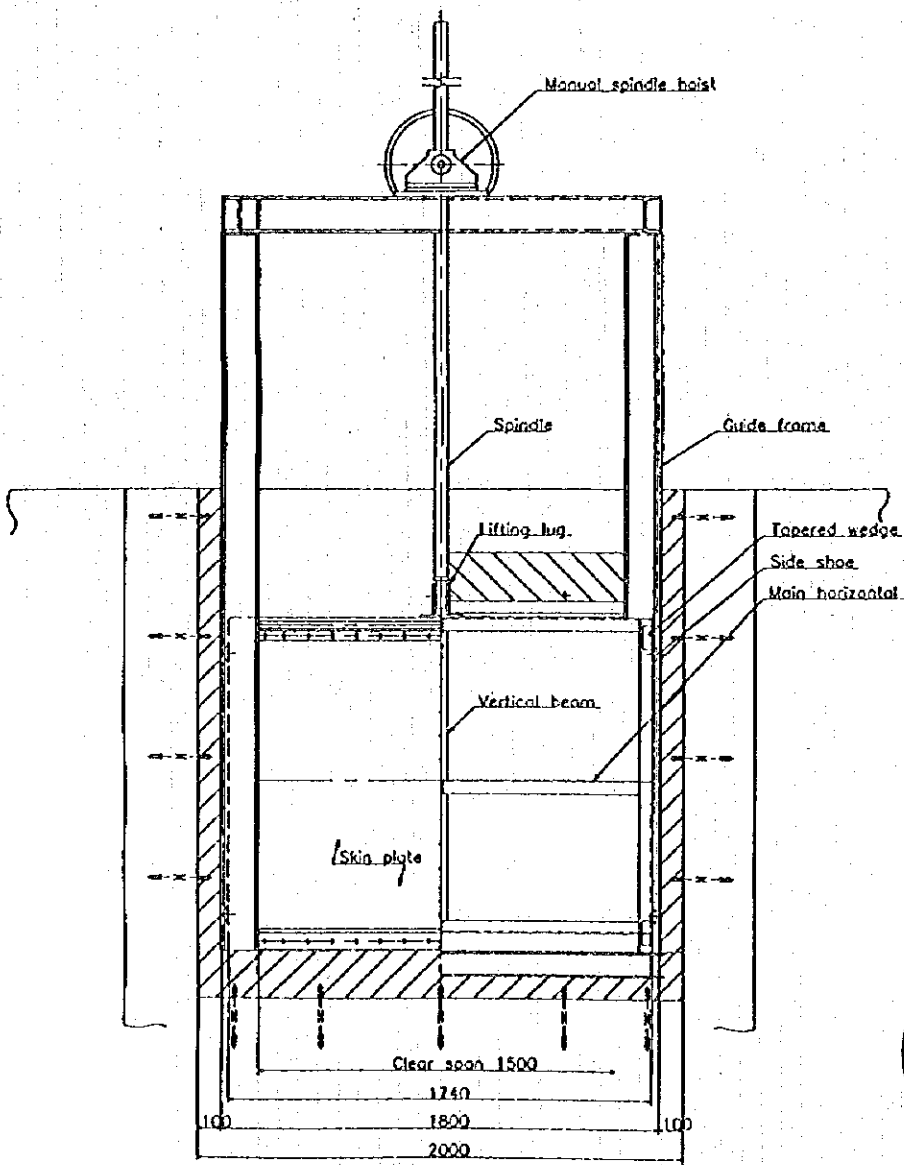


PLAN SCALE A

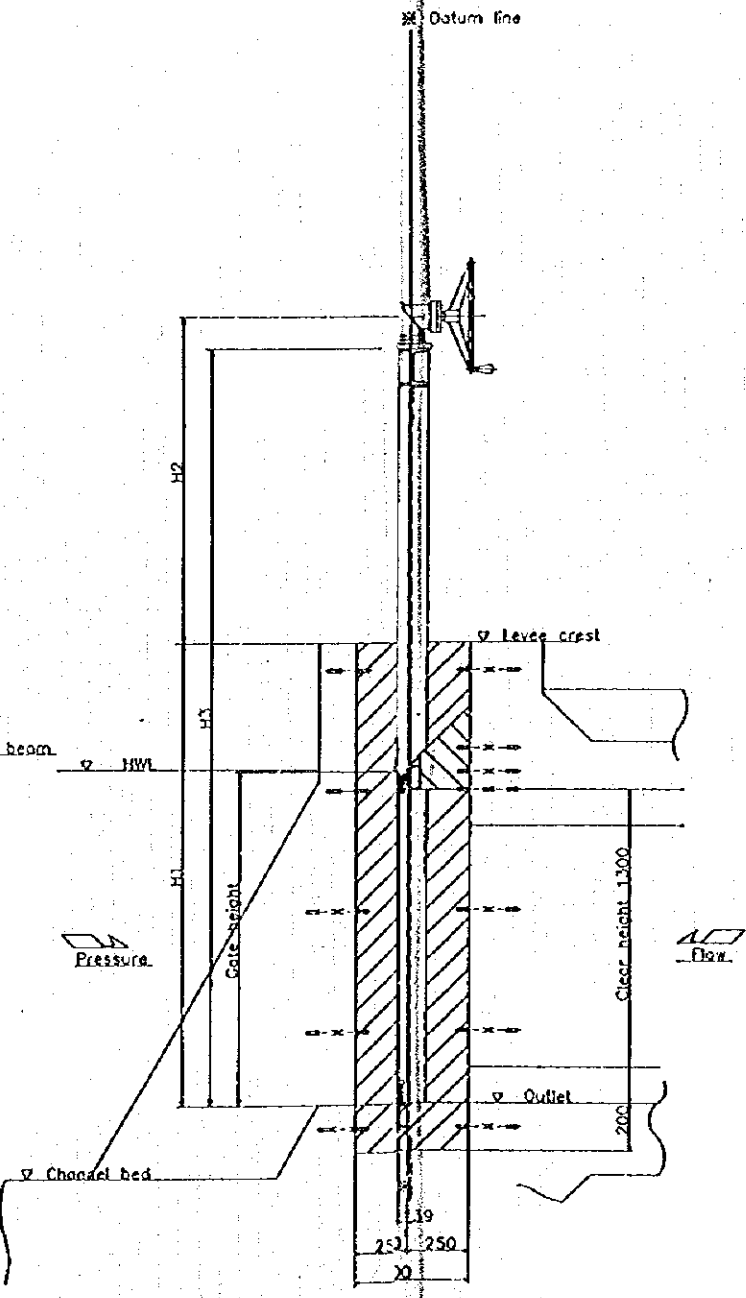
Conduit		No.	Level type	Channel bed	EL (m)			H1 (m)	H2 (m)	H3 (m)
Width (m)	Height (m)				HWL	Level crest	Outlet			
1.5	1.3	SXM-3L	R(I)	-0.341	0.850	1.374	-0.541	1.915	1.347	3.130



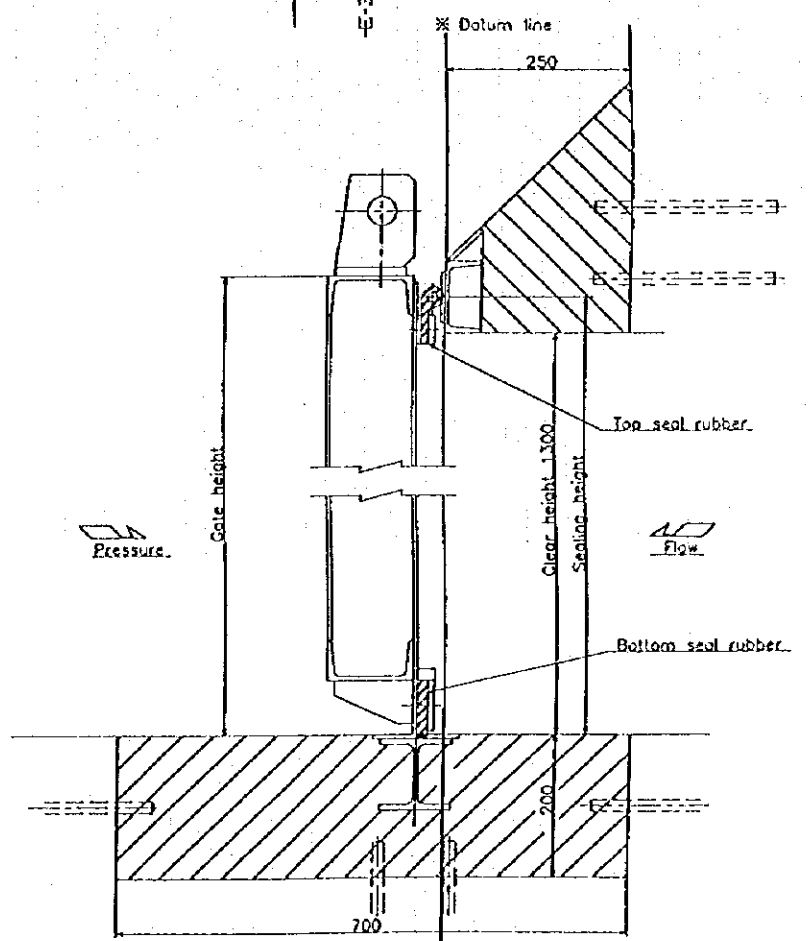
DETAIL OF SIDE SLOT SCALE B



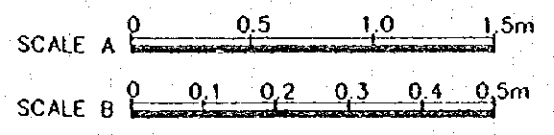
ELEVATION SCALE A



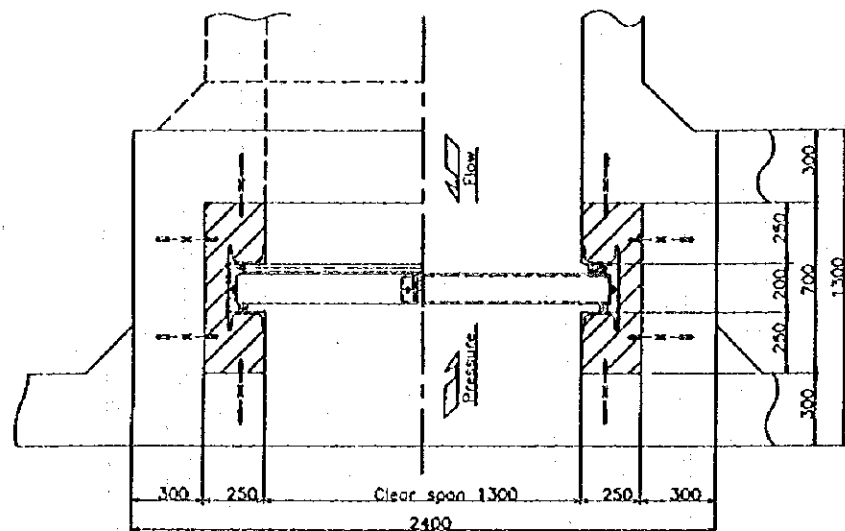
ELEVATION SCALE A



DETAIL OF TOP AND BOTTOM SLOT SCALE B

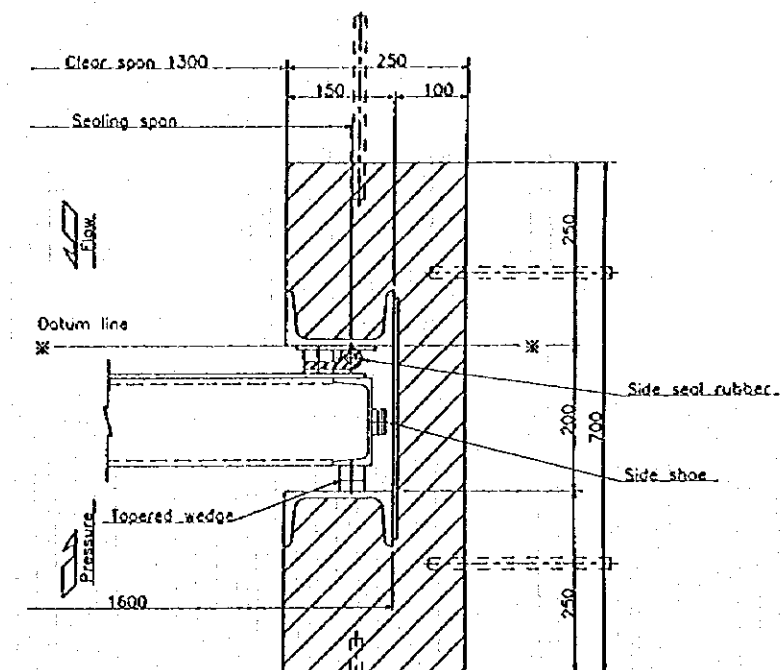


PREPARED	MINISTRY OF PUBLIC WORK	TITLE OF DRAWING	APPROVED
CHECKED	DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	DRAINAGE FACILITIES	
SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY	SLIDE GATE, GENERAL ARRANGEMENT	DATE
DATE	THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT	1.5m x 1.3m Level Type R(I)	
REFERENCE	IN	OWG NO.	
	THE CITY OF JAKARTA	J-30-20-002	

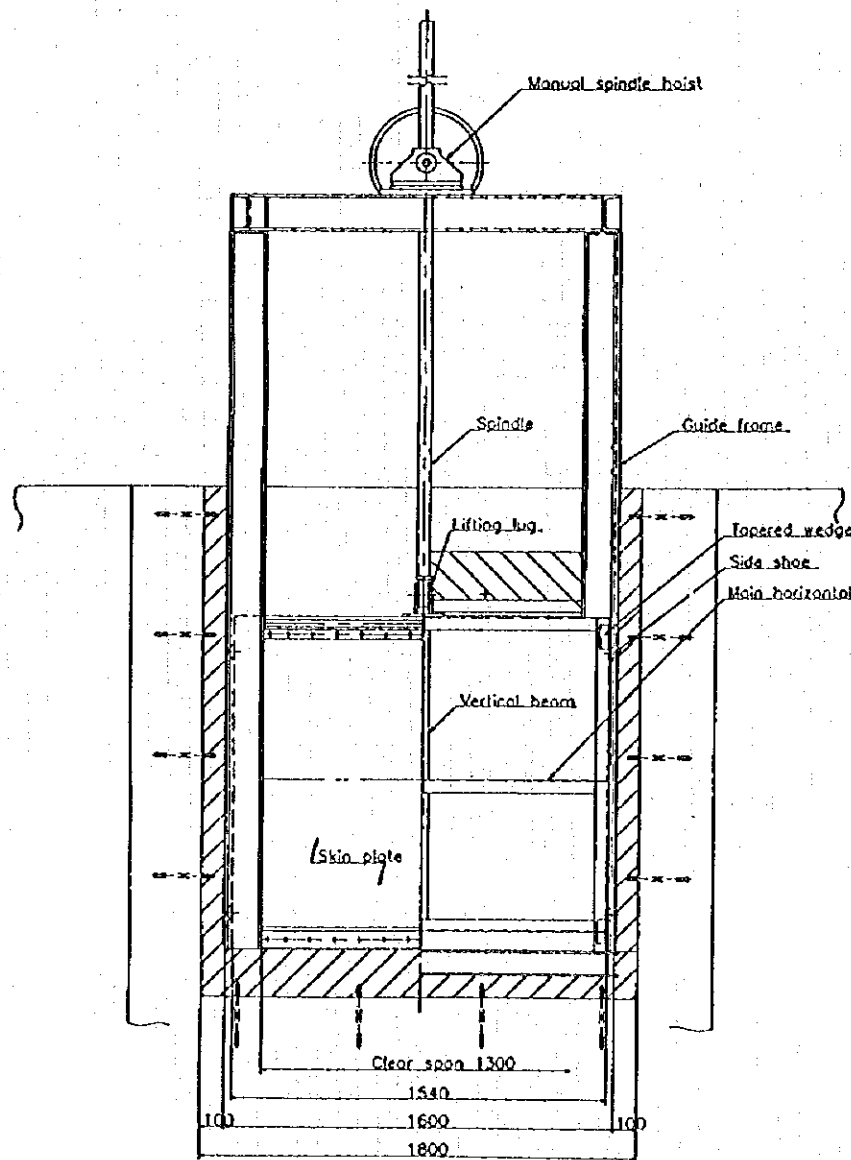


PLAN SCALE A

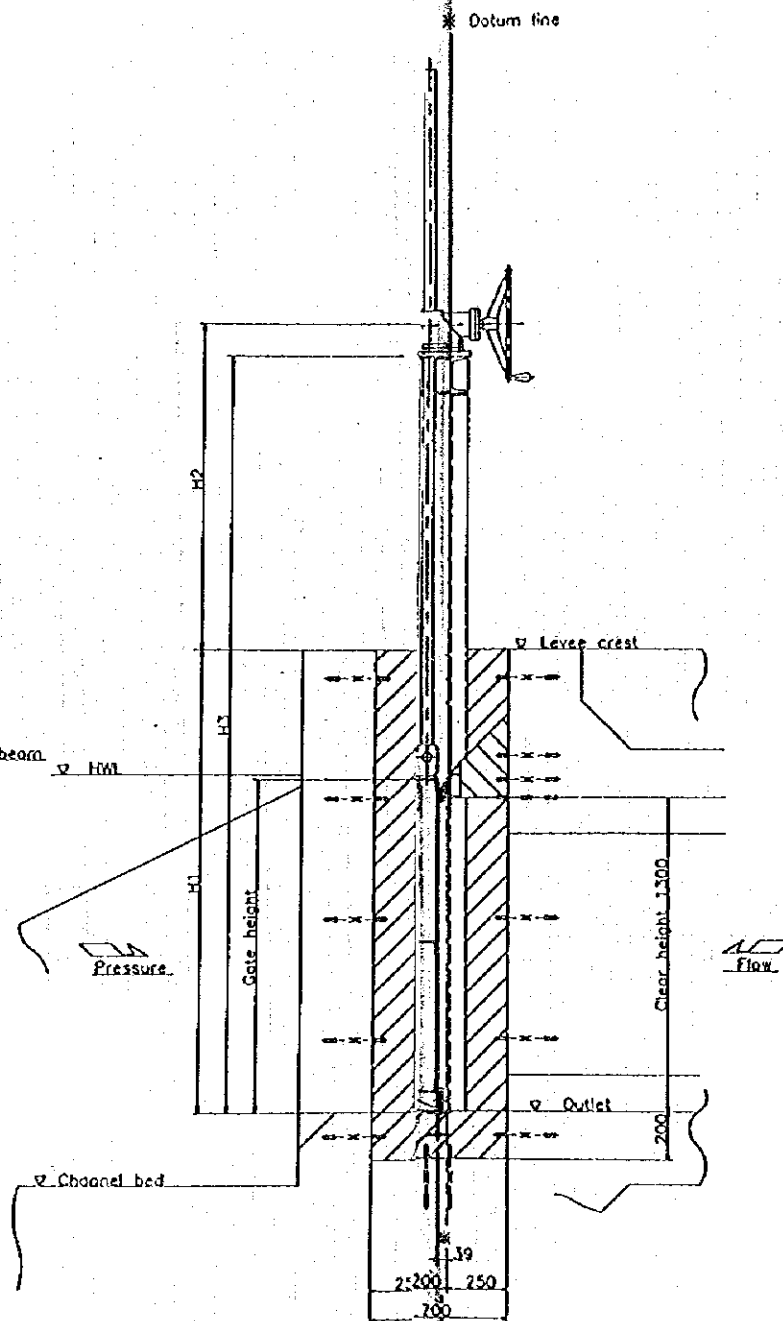
Conduit		No.	Levee type	Q ₁₀ (m ³ /s)	EL. (m)			H1 (m)	H2 (m)	H3 (m)
Width (m)	Height (m)				HWL	Levee crest	Outlet			
1.3	1.3	SKM-3R	L(E)	1-0.792	0.907	1.425	-0.492	1.917	1.345	3.130



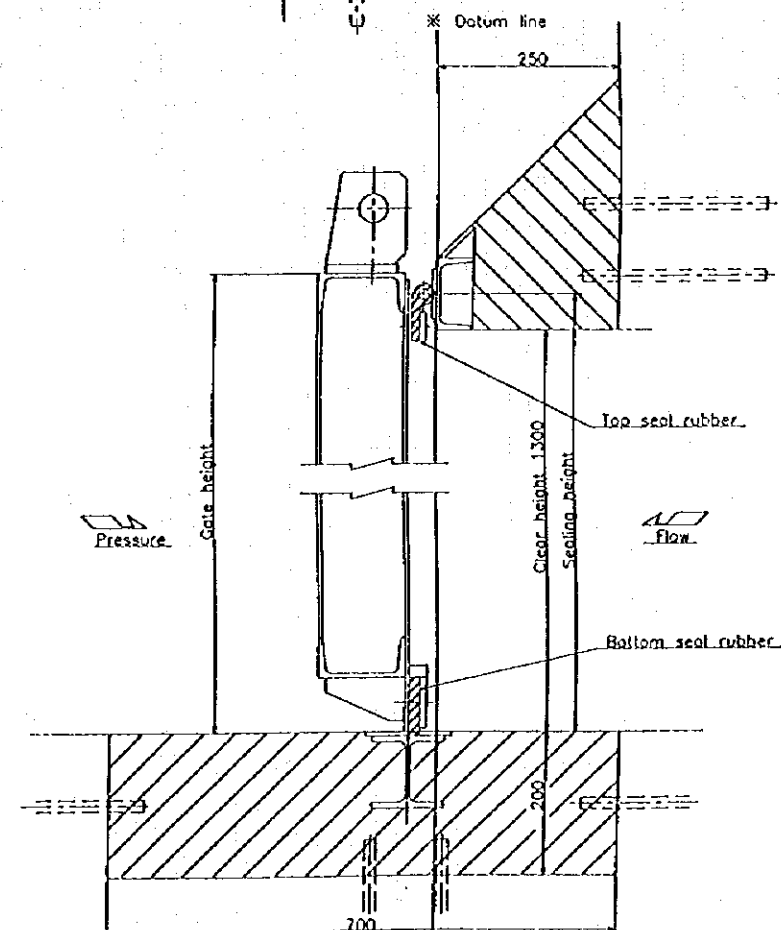
DETAIL OF SIDE SLOT SCALE B



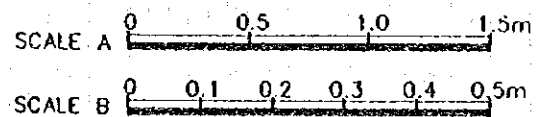
ELEVATION SCALE A



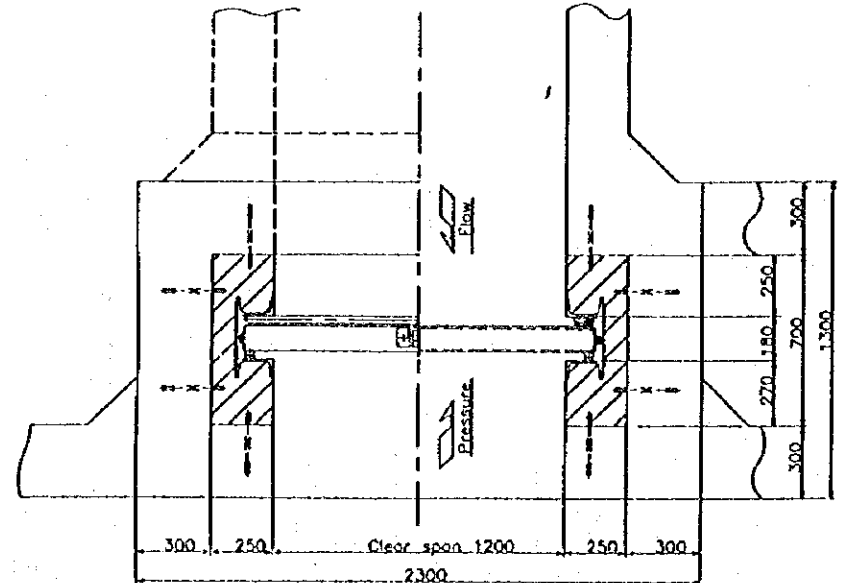
PROFILE SCALE A



DETAIL OF TOP AND BOTTOM SLOT SCALE B

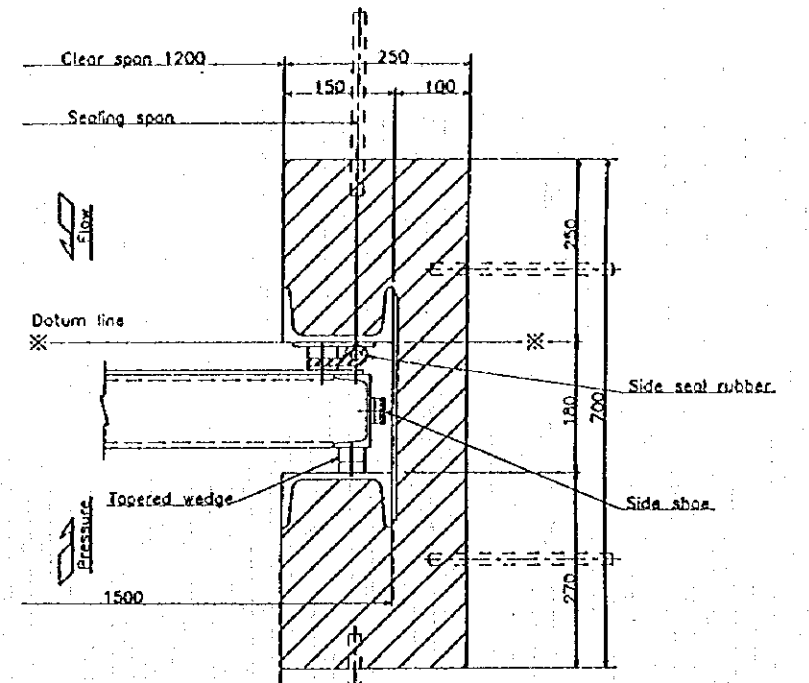


PREPARED	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED	
CHECKED		DRAINAGE FACILITIES SLIDE GATE, GENERAL ARRANGEMENT 1.3mx1.3m Levee Type L(E)		
SUBMITTED		DWG NO.		DATE
DATE		J-30-20-003		
REFERENCE	D.NO.			

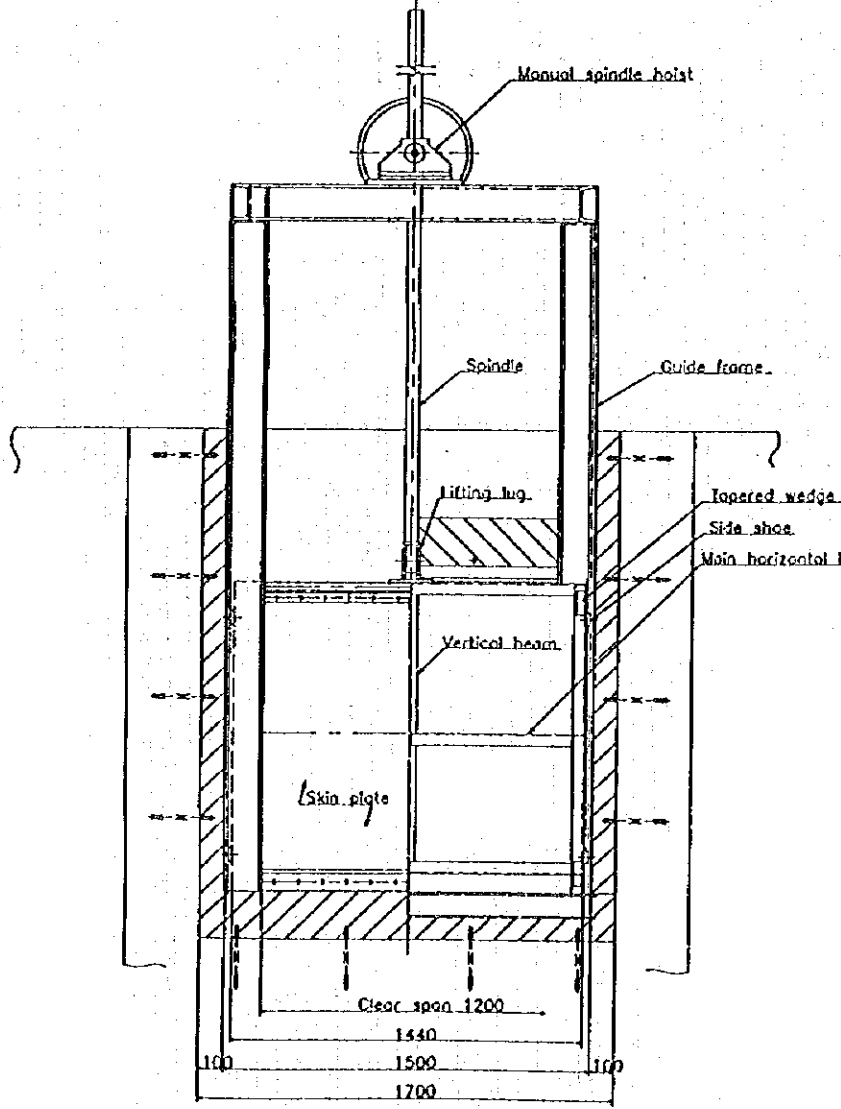


PLAN SCALE A

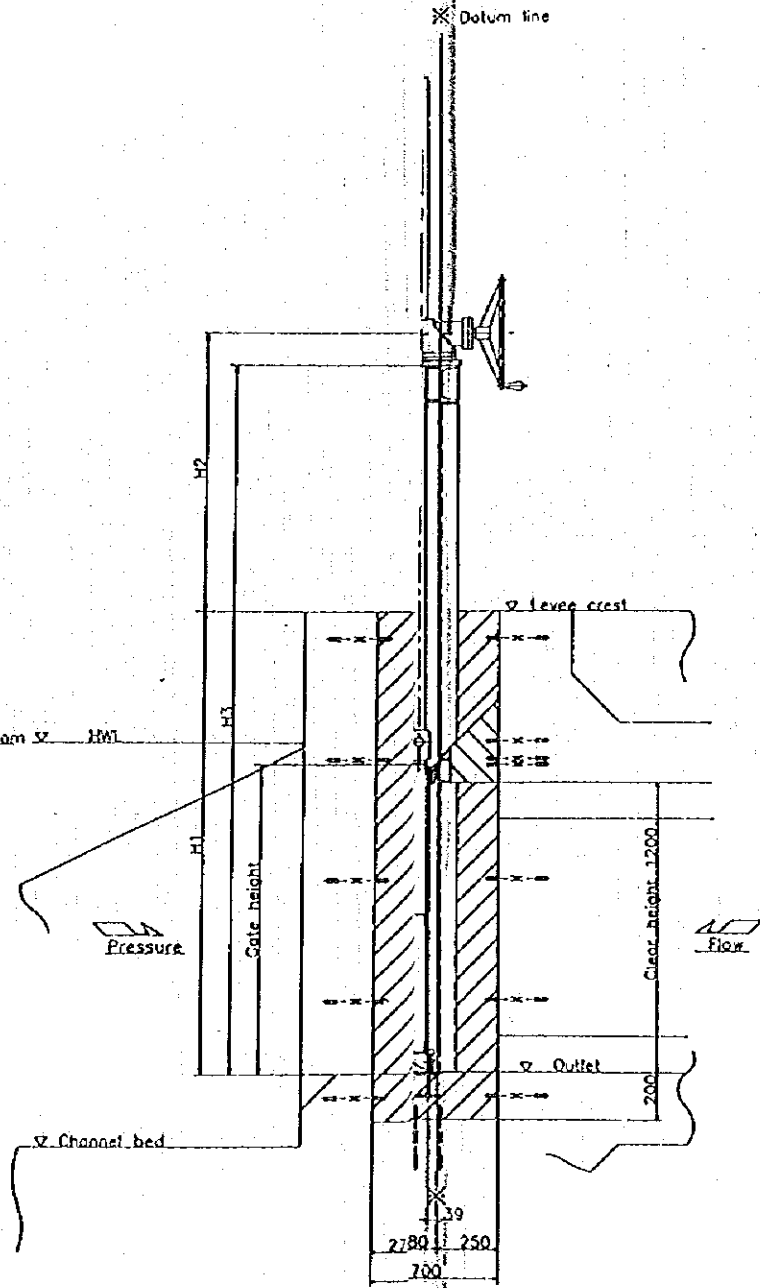
Conduit		No.	Levee type	Qty	EL (m)			H1 (m)	H2 (m)	H3 (m)
Width (m)	Height (m)				HWL	Levee crest	Outlet			
1.2	1.2	SKM-2R	L(E)	1	0.695	1.236	-0.676	1.912	1.150	2.930
		SCM-2L	L(E)	2	1.675	2.020	-0.064	2.084	0.978	2.930



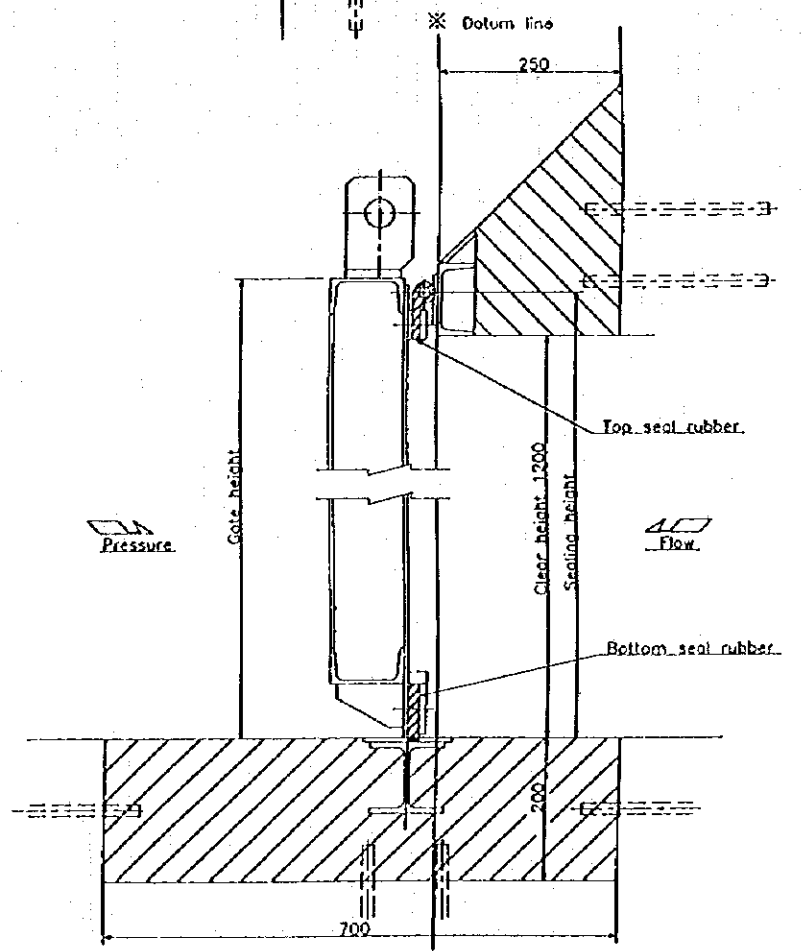
DETAIL OF SIDE SLOT SCALE B



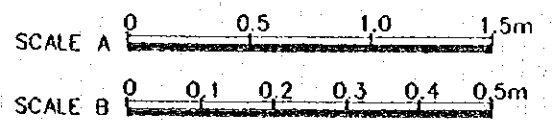
ELEVATION SCALE A



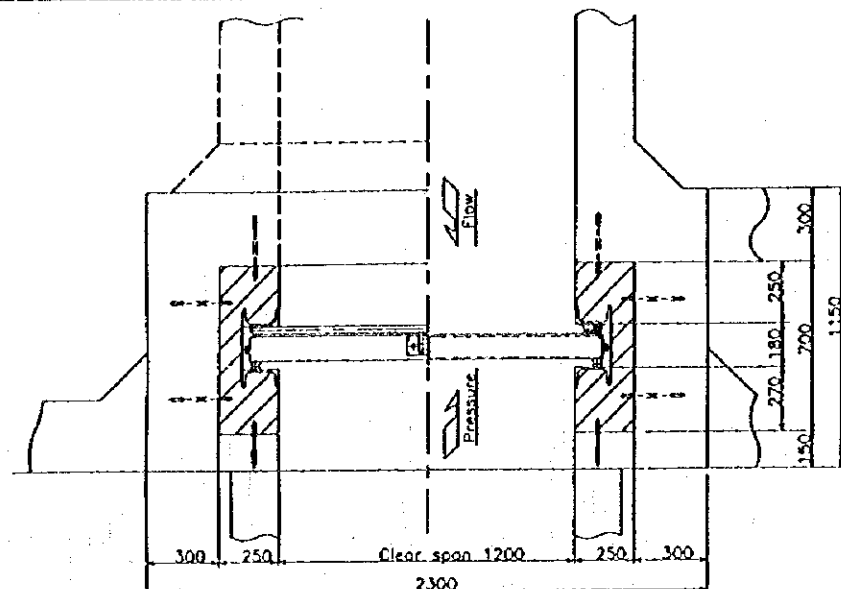
PROFILE SCALE A



DETAIL OF TOP AND BOTTOM SLOT SCALE B

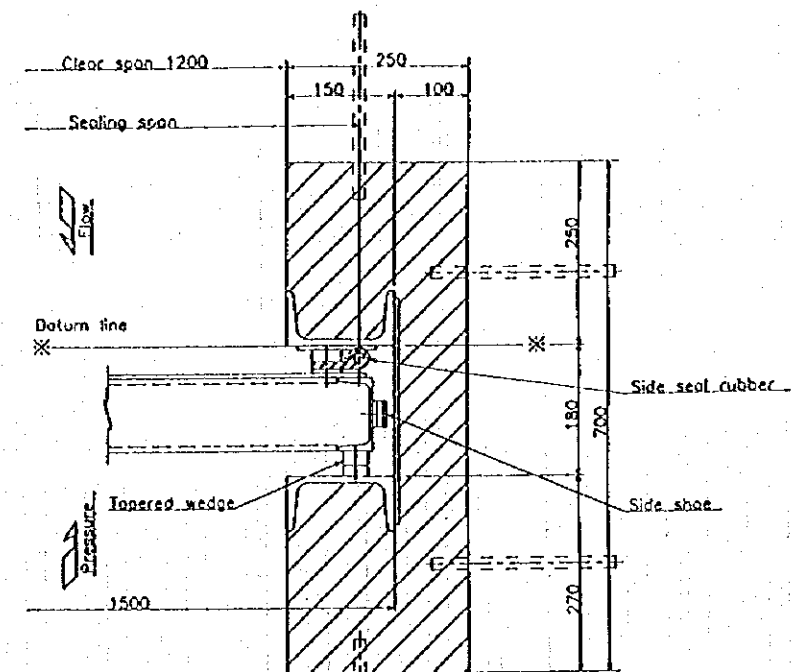


PREPARED	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE FACILITIES SLIDE GATE, GENERAL ARRANGEMENT 1.2mx1.2m Levee Type L(E)	APPROVED
CHECKED		DWG NO.	DATE
SUBMITTED		J-30-20-003	
DATE			
REFERENCE (NO.)			

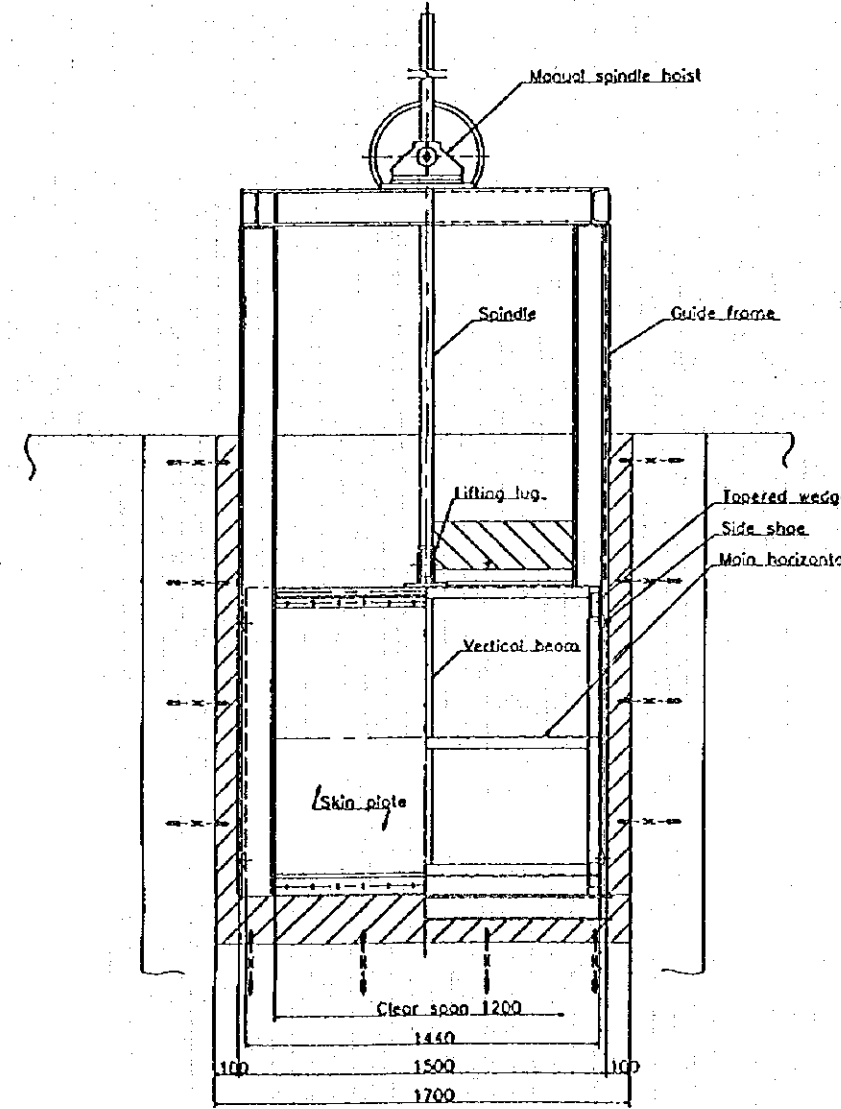


PLAN SCALE A

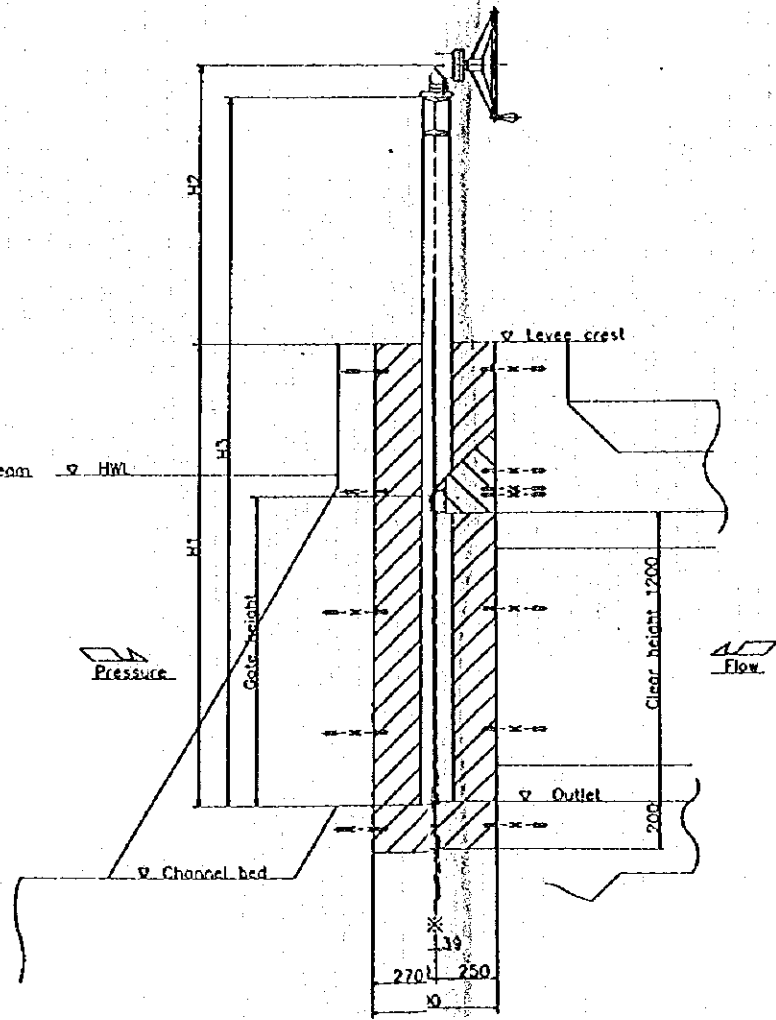
Conduit		No.	Levee type	Q'ty	El. (m)			H1 (m)	H2 (m)	H3 (m)
Width (m)	Height (m)				HWL	Levee crest	Outlet			
1.2	1.2	SKM-1L	R(II)	1	0.688	1.230	-0.682	1.912	1.150	2.930
		SCM-1R	R(II)	1	1.632	1.989	0.204	1.785	1.277	2.930



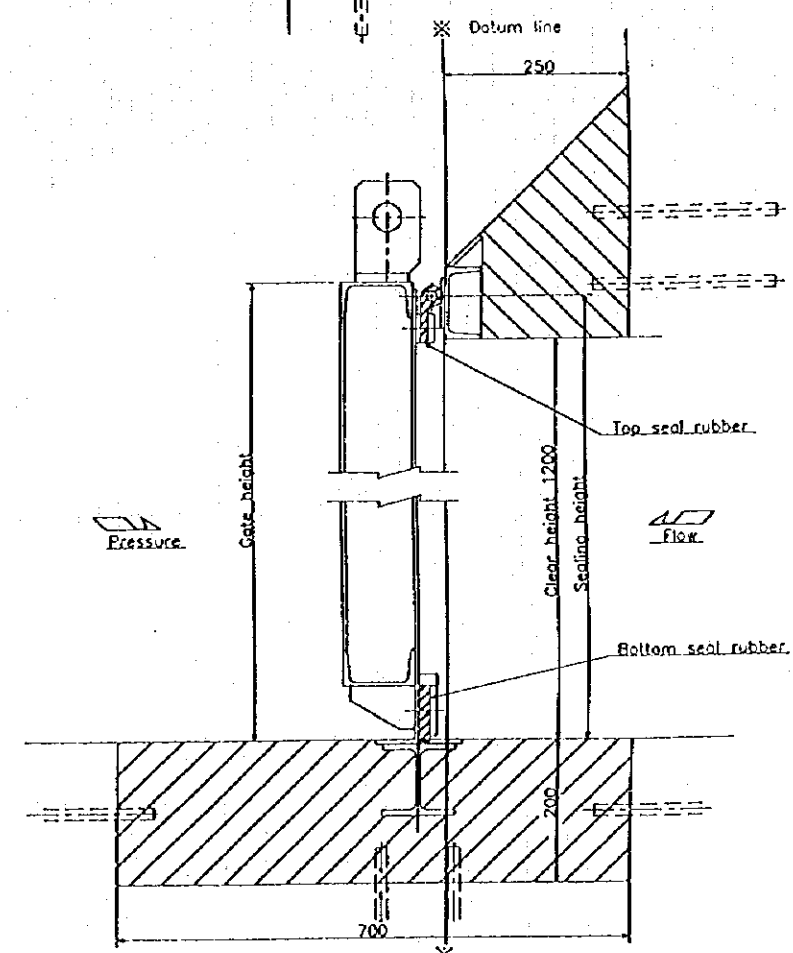
DETAIL OF SIDE SLOT SCALE B



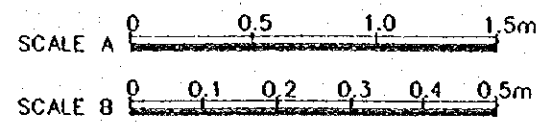
ELEVATION SCALE A



PILE SCALE A



DETAIL OF TOP AND BOTTOM SLOT SCALE B

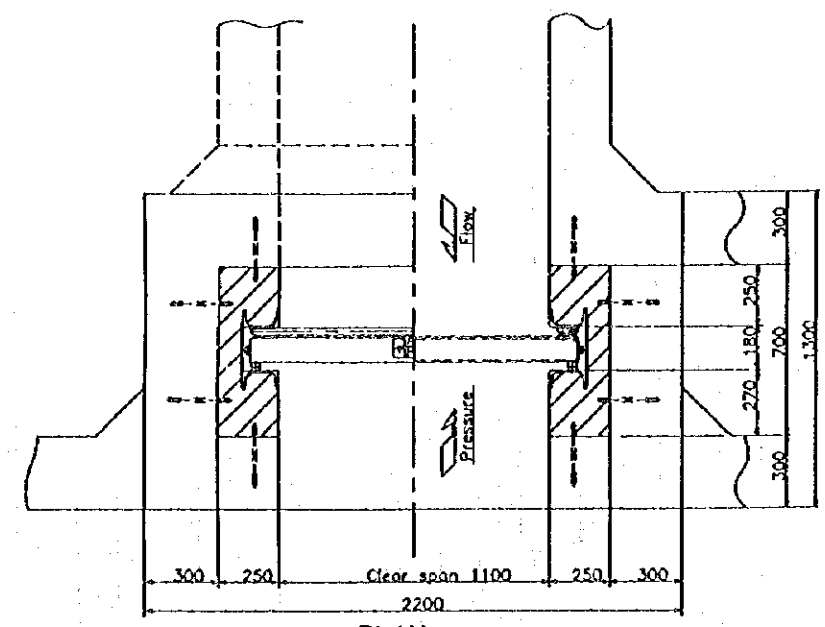


PREPARED	
CHECKED	
SUBMITTED	
DATE	
REFERENCE	D/P

MINISTRY OF PUBLIC WORK
 DIRECTORATE GENERAL OF HUMAN SETTLEMENTS
 JAPAN INTERNATIONAL COOPERATION AGENCY
 THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT
 IN
 THE CITY OF JAKARTA

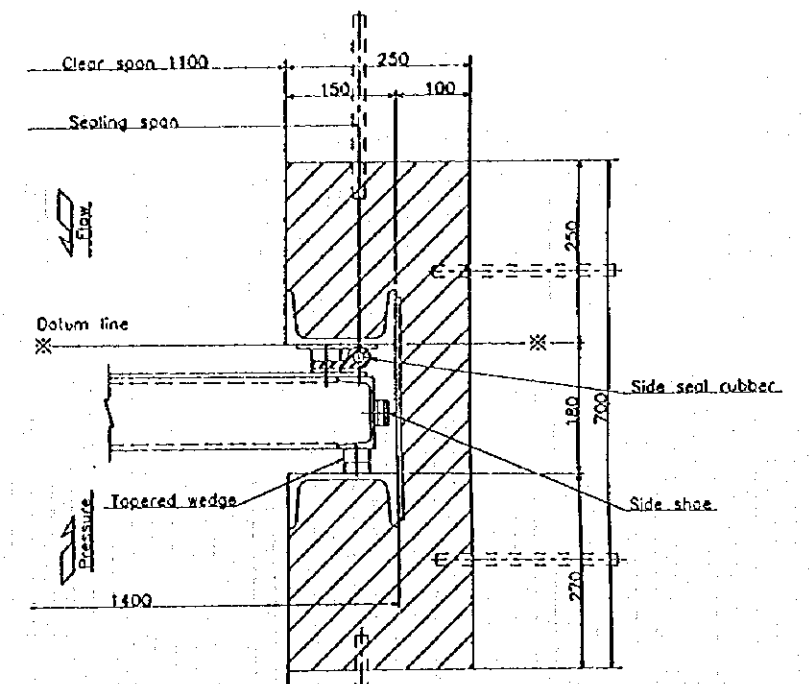
TITLE OF DRAWING
 DRAINAGE FACILITIES
 SLIDE GATE, GENERAL ARRANGEMENT
 1.2m x 1.2m Levee Type R(II)
 DWG NO. J-30-20-007

APPROVED
 DATE

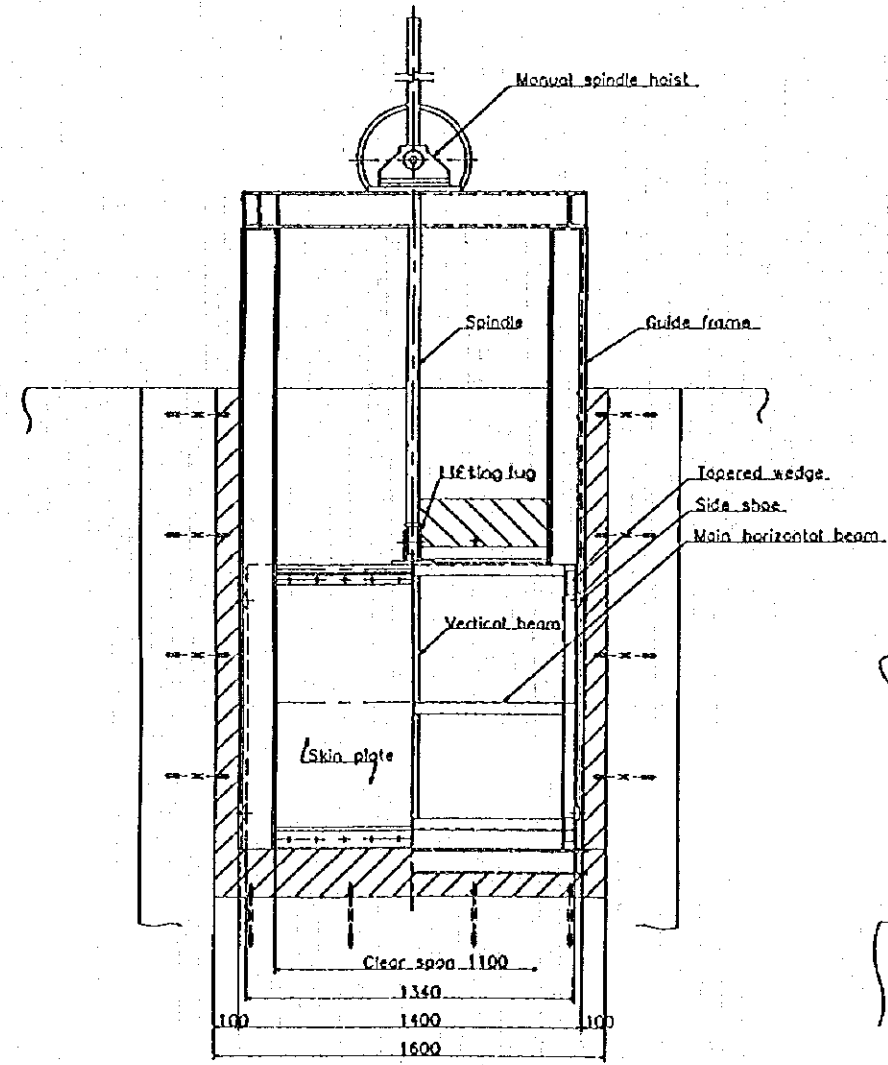


PLAN SCALE A

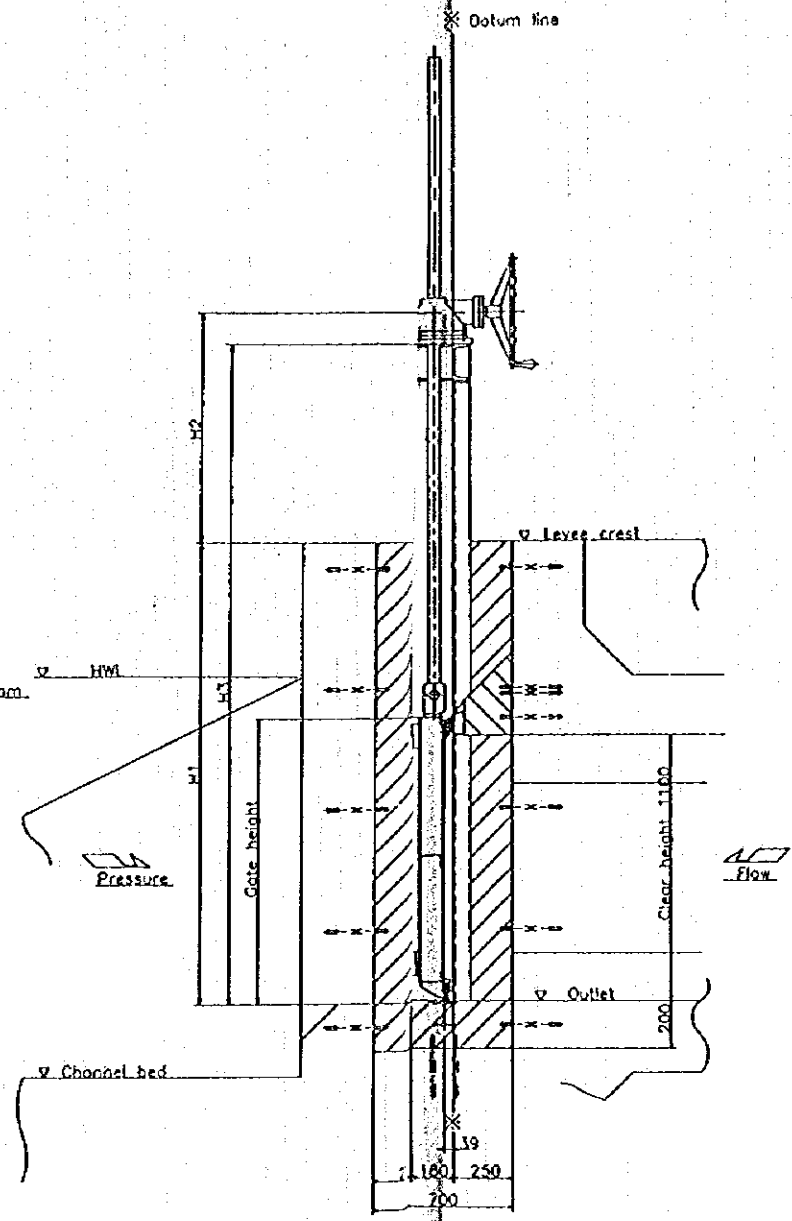
Conduit Width (m)	Conduit Height (m)	No.	Level type	Elev. (m)				H1 (m)	H2 (m)	H3 (m)	
				Channel bed	HWL	Levee crest	Outlet				
1.1	1.1	SKM-1R	L(E)	2	-1.062	0.592	1.145	-0.762	1.910	0.952	2.730
		SCM-5L	L(E)	1	0.278	2.142	2.558	0.578	1.980	0.892	2.730
		SCM-7L	L(E)	1	0.380	2.192	2.626	0.680	1.946	0.916	2.730
		SCM-6R	L(E)	1	0.444	2.206	2.650	0.744	1.906	0.956	2.730



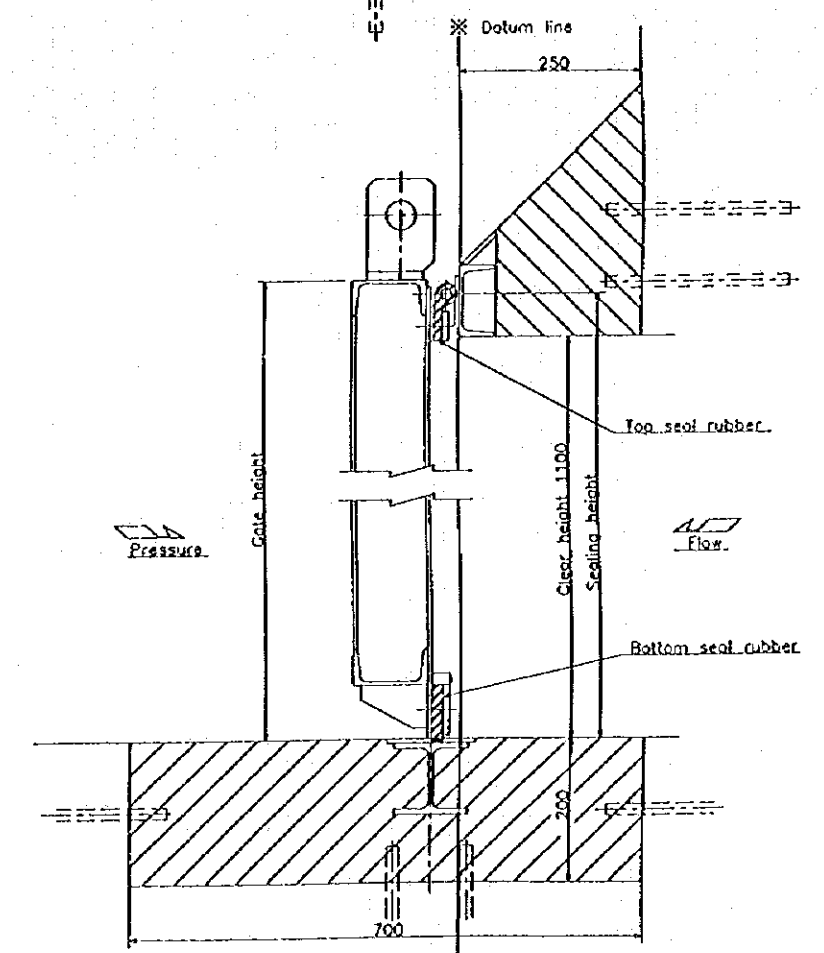
DETAIL OF SIDE SLOT SCALE B



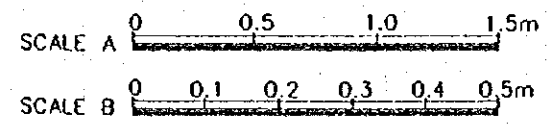
ELEVATION SCALE A



PROFILE SCALE A



DETAIL OF TOP AND BOTTOM SLOT SCALE B



PREPARED	
CHECKED	
SUBMITTED	
DATE	
REFERENCE	G. NO.

MINISTRY OF PUBLIC WORK
 DIRECTORATE GENERAL OF HUMAN SETTLEMENTS
 JAPAN INTERNATIONAL COOPERATION AGENCY
 THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT
 IN
 THE CITY OF JAKARTA

TITLE OF DRAWING
 DRAINAGE FACILITIES
 SLUICE GATE, GENERAL ARRANGEMENT
 1.1mx1.1m Levee Type L(E)
 DWG. NO. J-30-20-008

APPROVED
 DATE