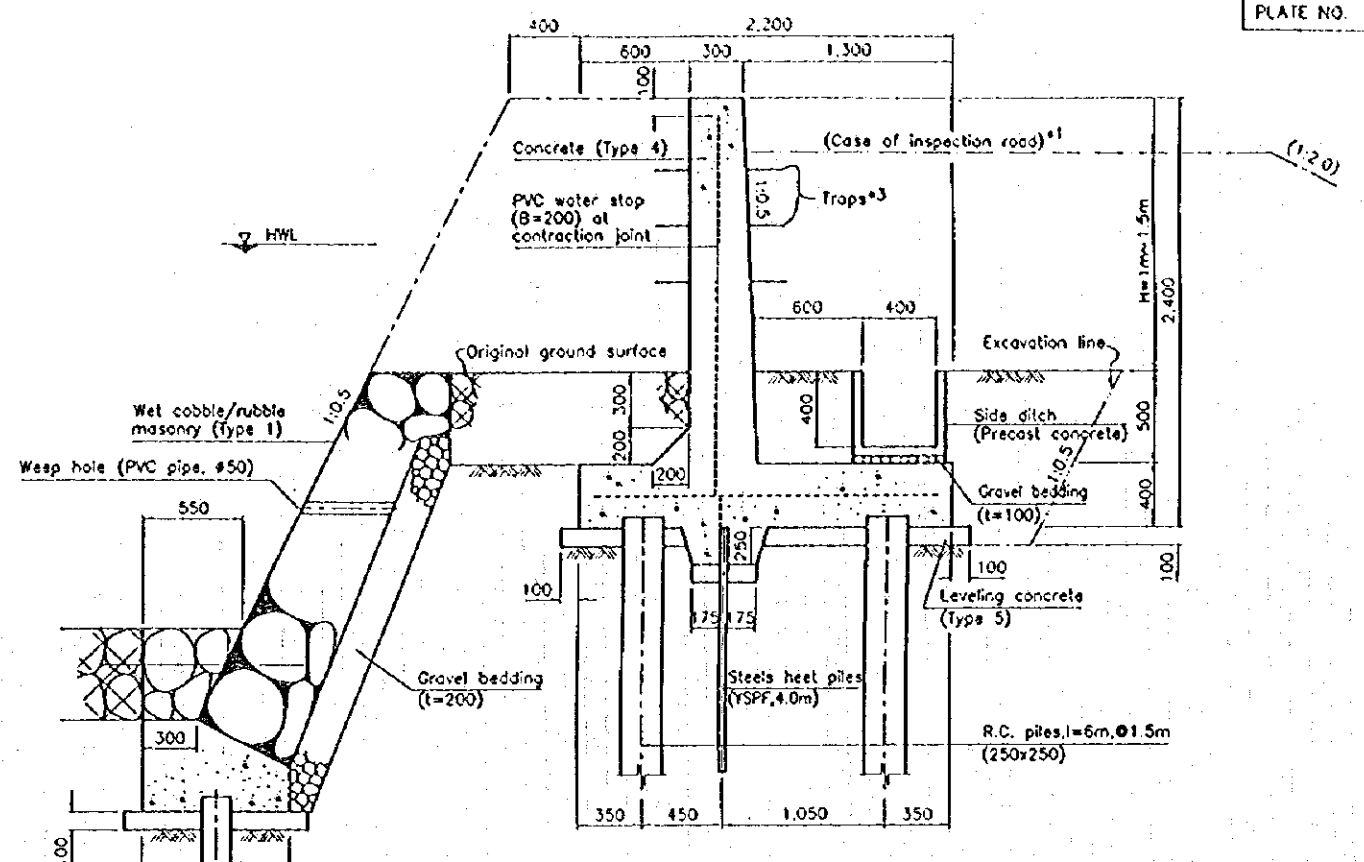
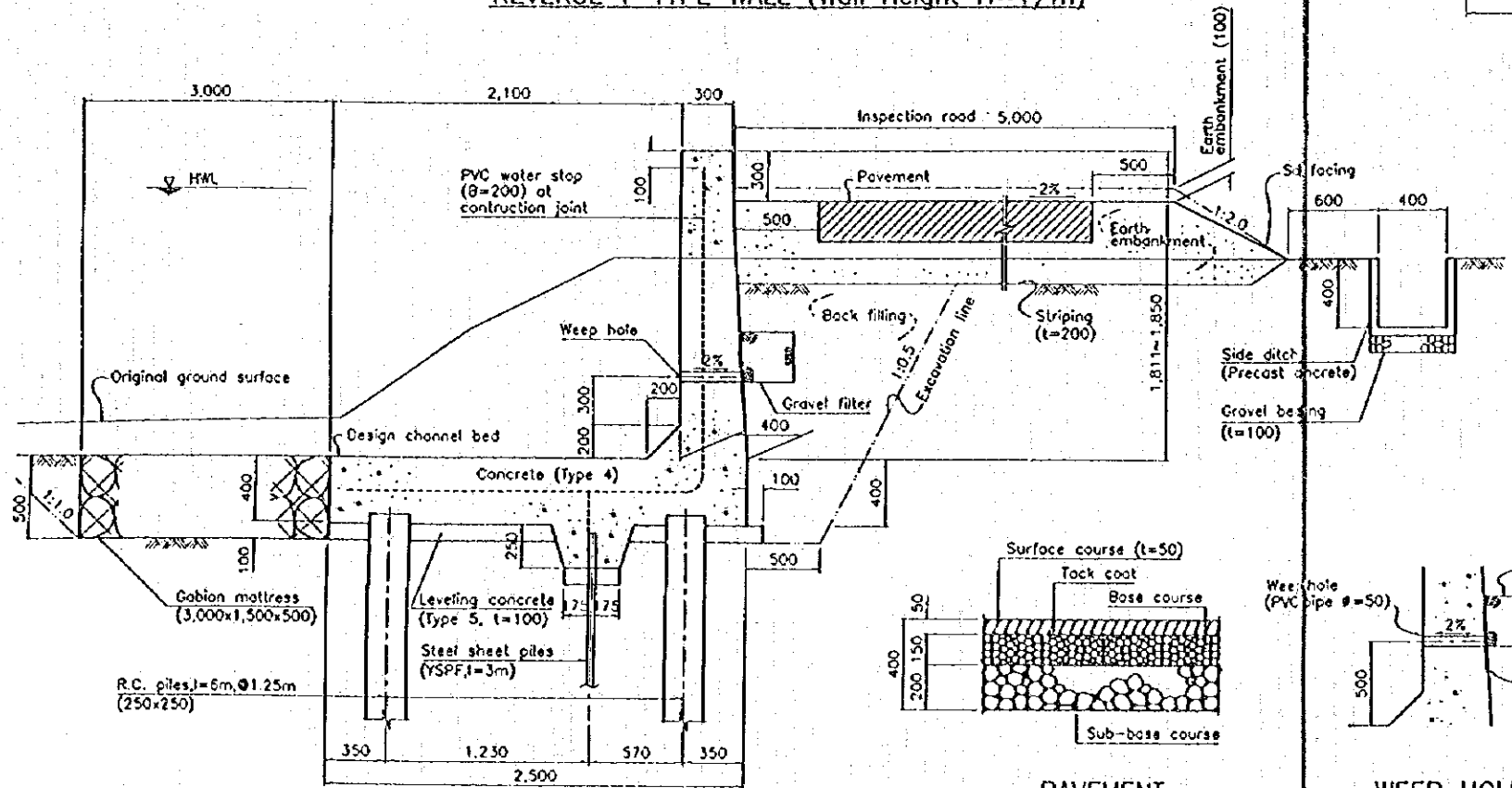


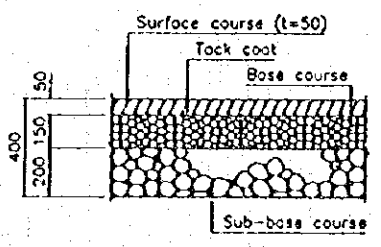
REVERSE T-TYPE WALL (Wall Height H=1m)



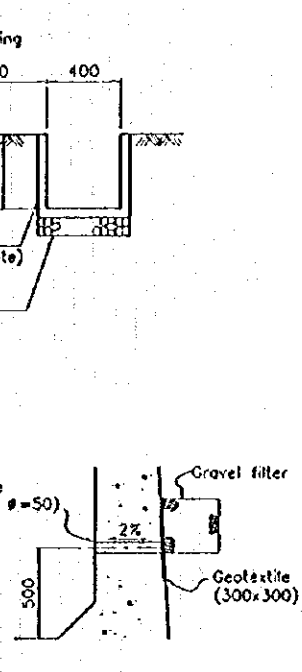
REVERSE T-TYPE WALL (H=1m~1.5m)



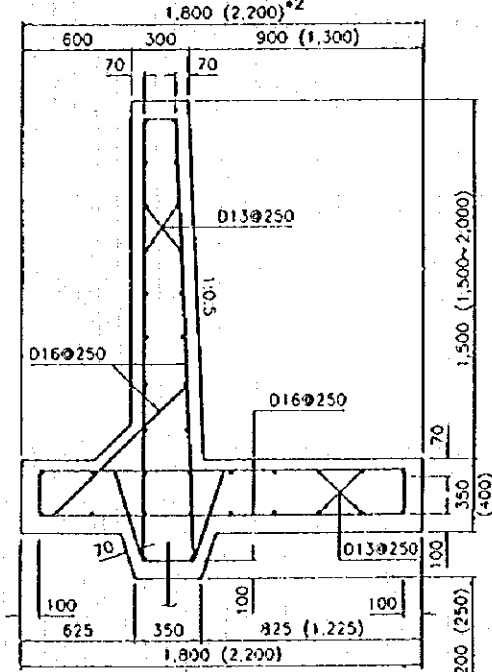
L-TYPE WALL



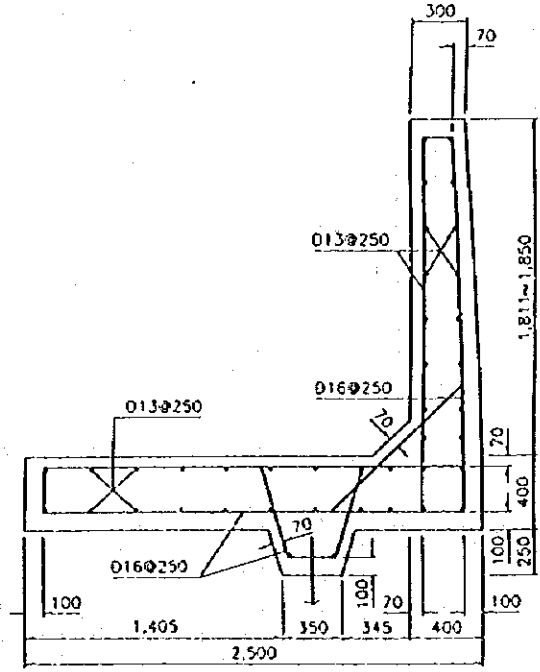
PAVEMENT



WEEP HOLE



REVERSE T-TYPE WALL

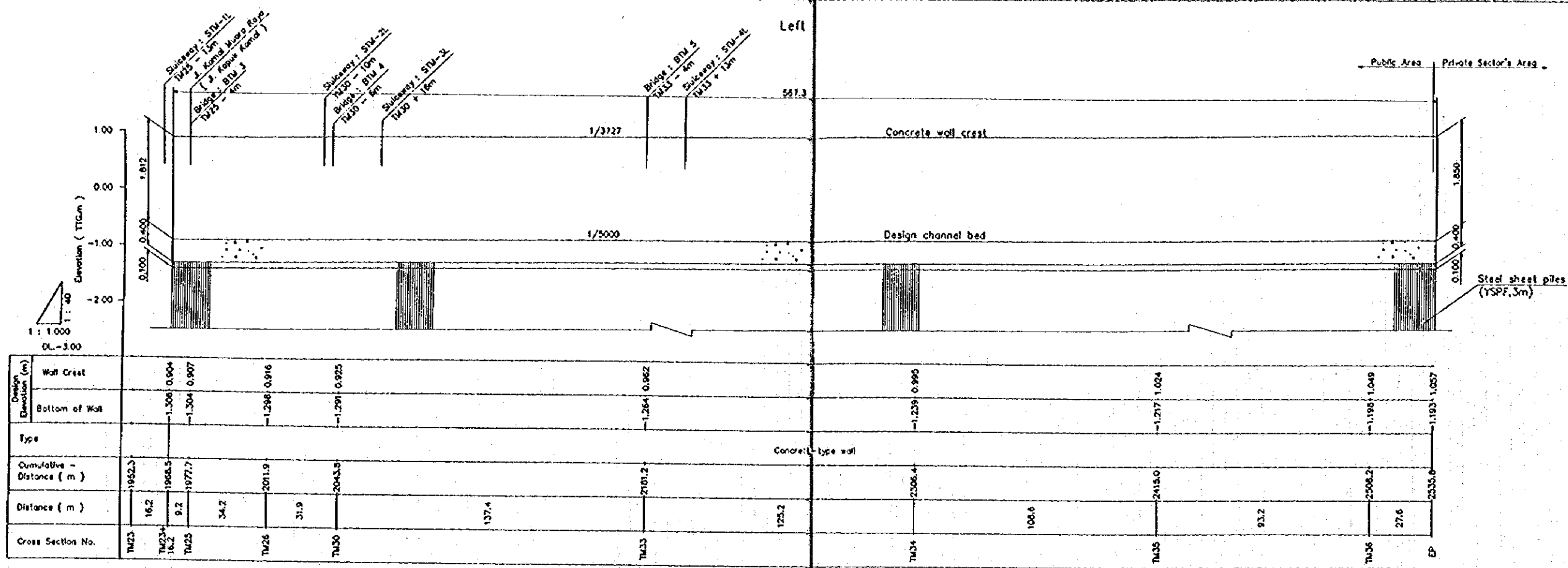


L-TYPE WALL

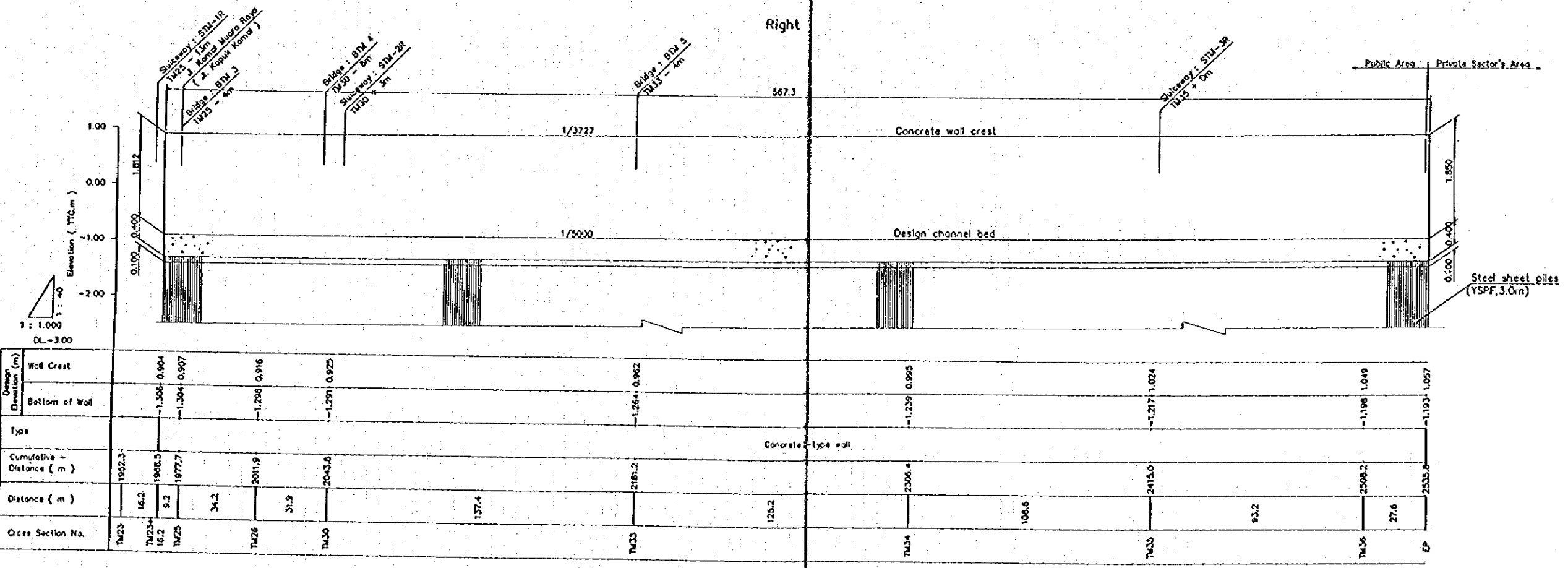
REINFORCING BAR ARRANGEMENT

- NOTES :
- (1) *1 In case of the inspection road, refer to that of "L-TYPE WALL".
 - (2) *2 Figures in parentheses show dimensions of "Wall height H=1m~1.5m".
 - (3) *3 Traps shall be provided at a 100m interval.

PREPARED.....	MINISTRY OF PUBLIC WORKS	TITLE OF DRAWING	APPROVED
CHECKED.....	DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	CHANNEL STRUCTURES, PARAPET WALL	
SUBMITTED.....	JAPAN INTERNATIONAL COOPERATION AGENCY	TYPICAL CROSS SECTIONS	DATE
REFERENCE -	THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT	DWG NO.	
DWG NO.	IN	J-20-20-001	
DATE.....	THE CITY OF JAKARTA		

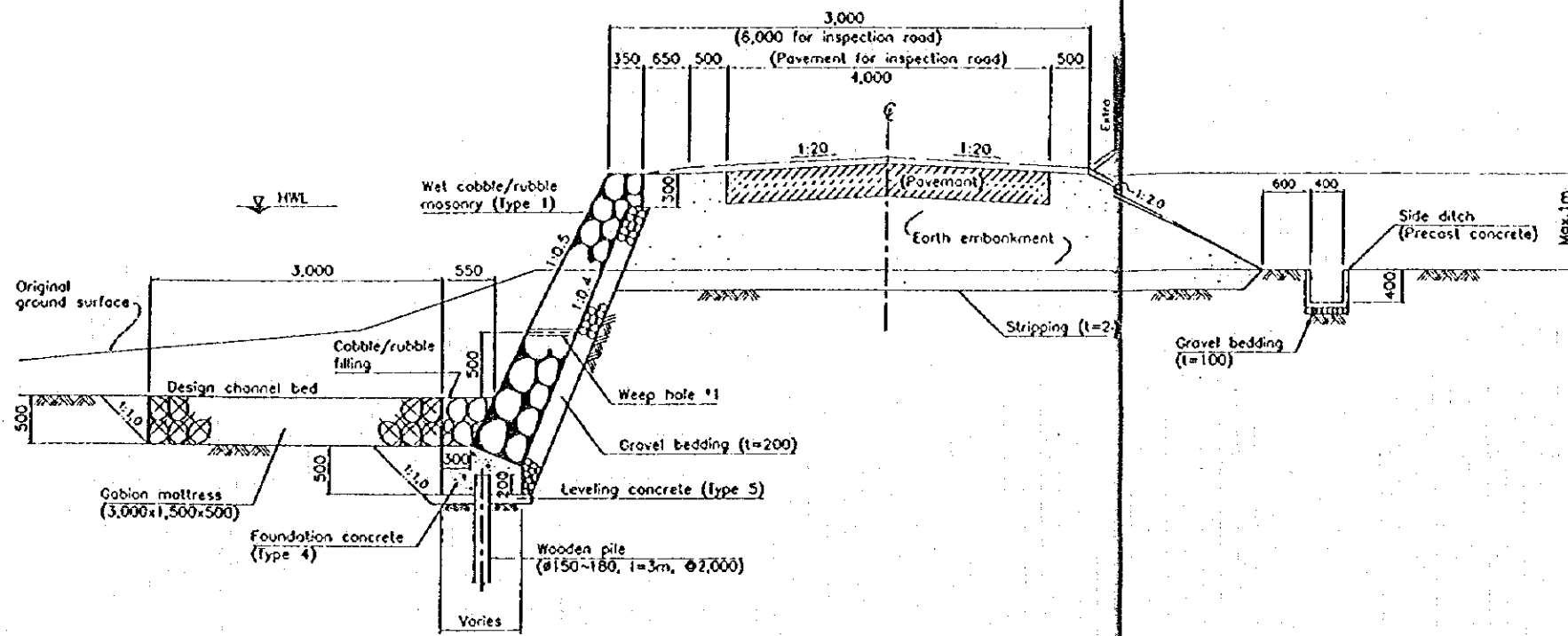


Design Elevation (m)	Wail Crest	Bottom of Wail	Type	Cumulative Distance (m)	Distance (m)	Cross Section No.
1.00	0.904	-1.306	Concrete type wail	1952.3	16.2	TW23
0.00	0.907	-1.304		1968.5	9.2	TW23-1
-1.00	0.916	-1.296		1977.7	34.2	TW25
-2.00	0.925	-1.291		2011.9	31.9	TW26
				2043.9	137.4	TW30
				2181.2		TW33
				2306.4		TW34
				2415.0		TW35
				2508.2		TW36
				2535.8		EP

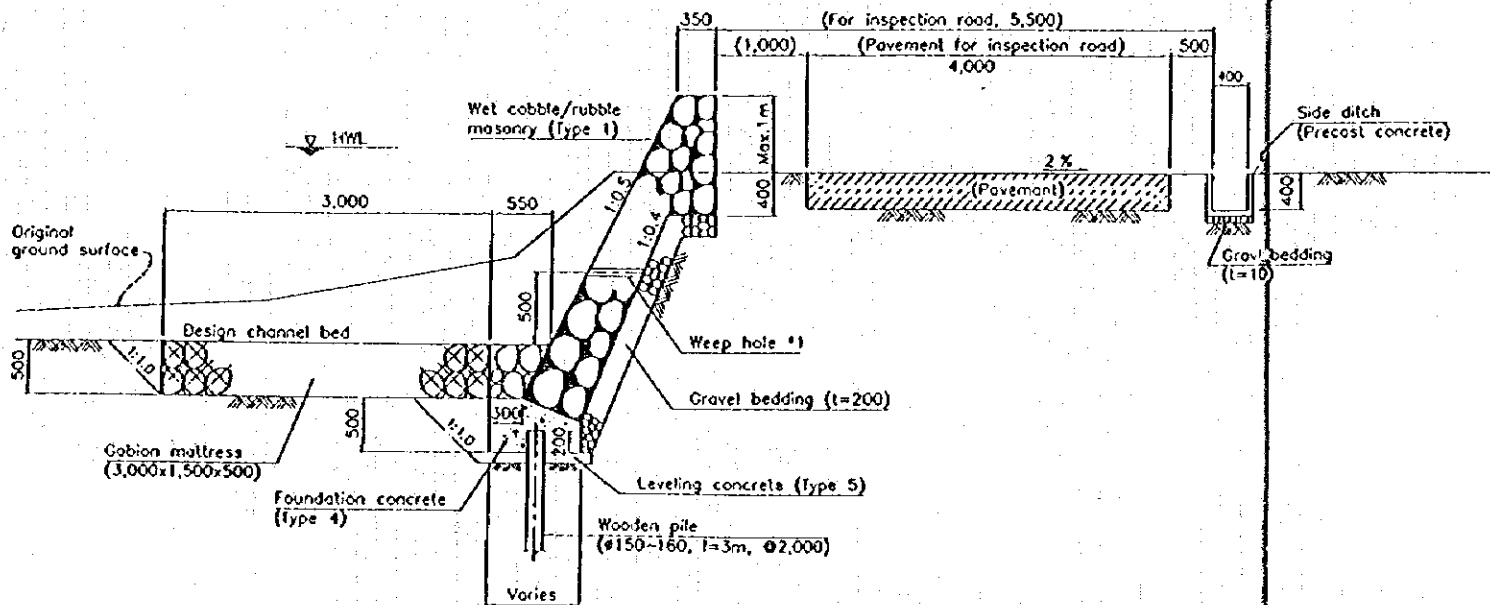


Design Elevation (m)	Wail Crest	Bottom of Wail	Type	Cumulative Distance (m)	Distance (m)	Cross Section No.
1.00	0.904	-1.306	Concrete type wail	1952.3	16.2	TW23
0.00	0.907	-1.304		1968.5	9.2	TW23-1
-1.00	0.916	-1.296		1977.7	34.2	TW25
-2.00	0.925	-1.291		2011.9	31.9	TW26
				2043.9	137.4	TW30
				2181.2		TW33
				2306.4		TW34
				2415.0		TW35
				2508.2		TW36
				2535.8		EP

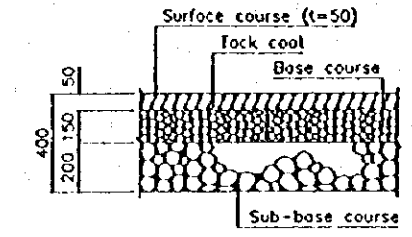
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT THE CITY OF JAKARTA	TITLE OF DRAWING CHANNEL STRUCTURES, PARAPET WALL, PROFILE, TANJUNGAN DRAINAGE CHANNEL	APPROVED
CHECKED.....		DWG NO. J-20-20-301	DATE
SUBMITTED.....			
DATE.....			
REFERENCE		DWG NO.	



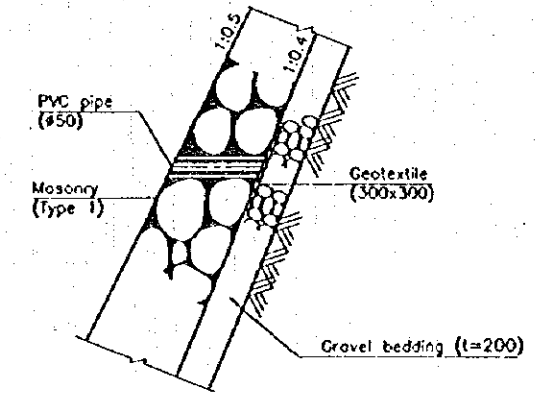
TYPE I



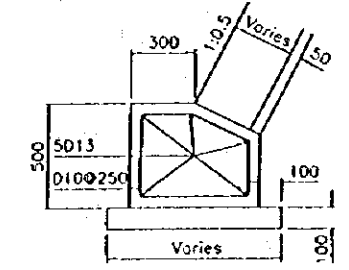
TYPE II



PAVEMENT



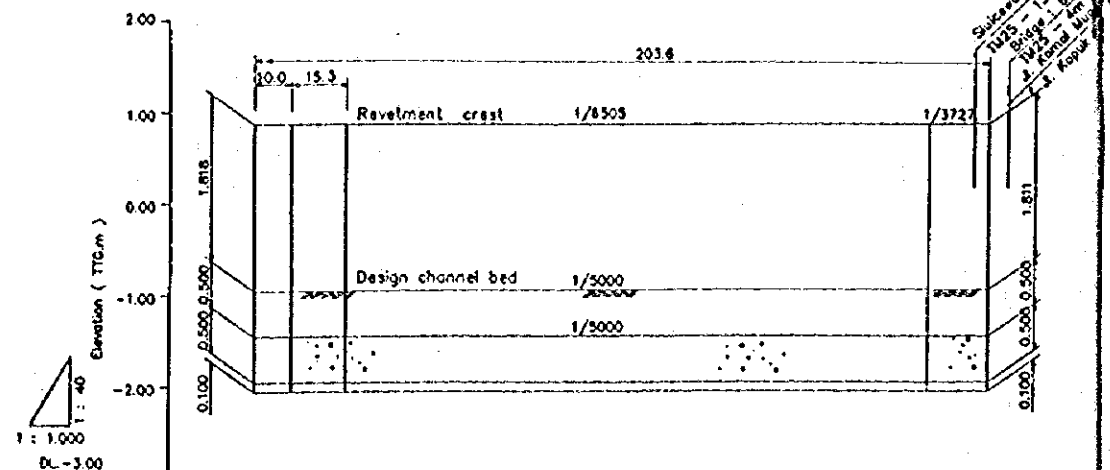
WEEP HOLE



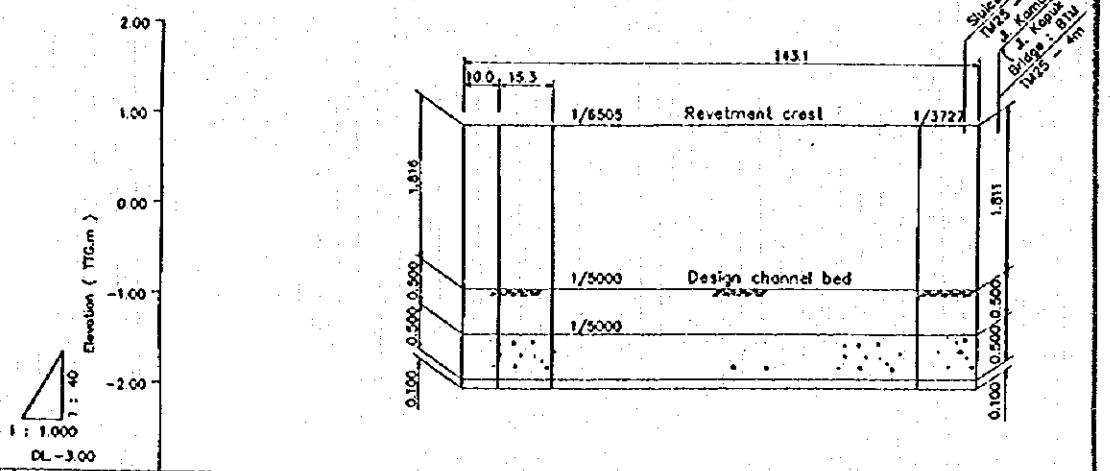
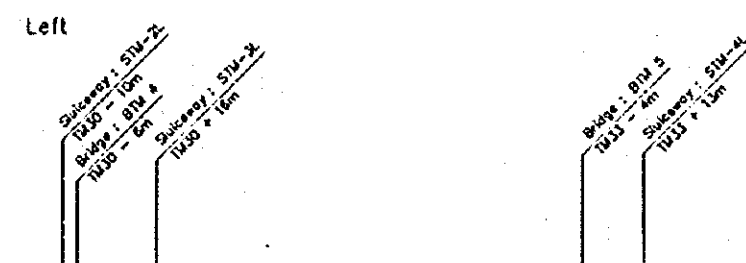
FOUNDATION CONCRETE

NOTE :
*1 One weep hole shall be provided every 4m² of the masonry surface.

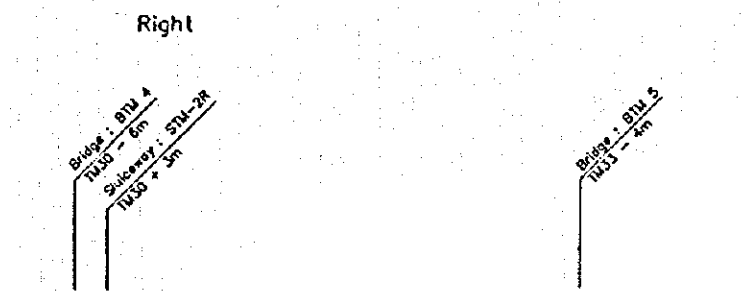
PREPARED.....	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING CHANNEL STRUCTURES, REYEMENT TYPICAL CROSS SECTIONS	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-20-30-001	DATE
SUBMITTED.....			
DATE.....			
REFERENCE	DWG NO.		



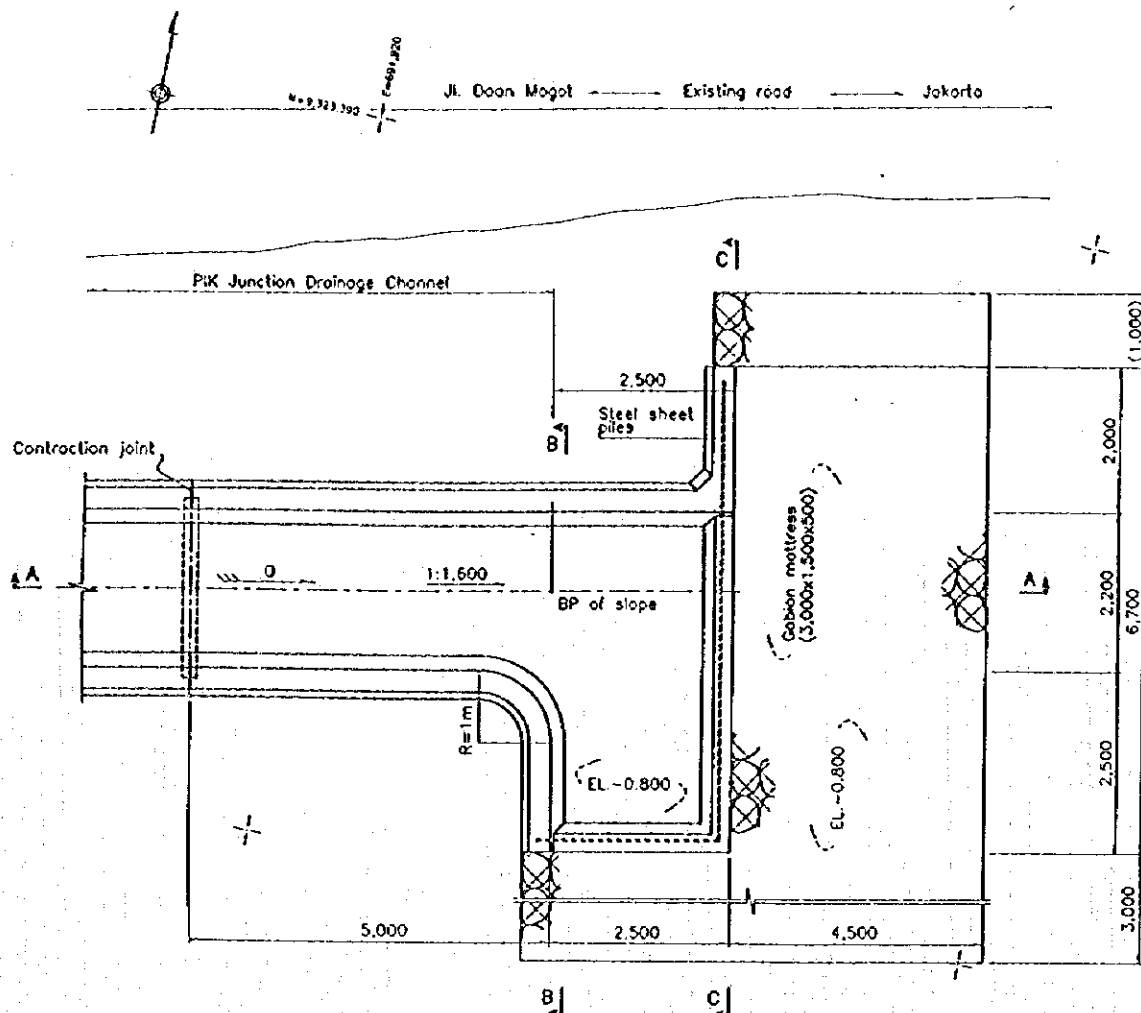
Design Elevation (m)	Revetment Crest		Channel Bed		Type		Cumulative Distance (m)		Distance (m)		Cross Section No.	
	1746.1	1764.9	1774.9	1790.2	1840.4	1922.3	1968.5	1977.7	2011.9	2043.0	2181.2	2306.4
	18.8	10.0	15.3	50.2	111.9	16.2	9.2	34.2	31.9	137.4	125.2	
	TM21	TM21+10.0	TM21+28.8	TM21+44.1	TM22	TM23	TM23+16.2	TM25	TM26	TM30	TM33	TM34



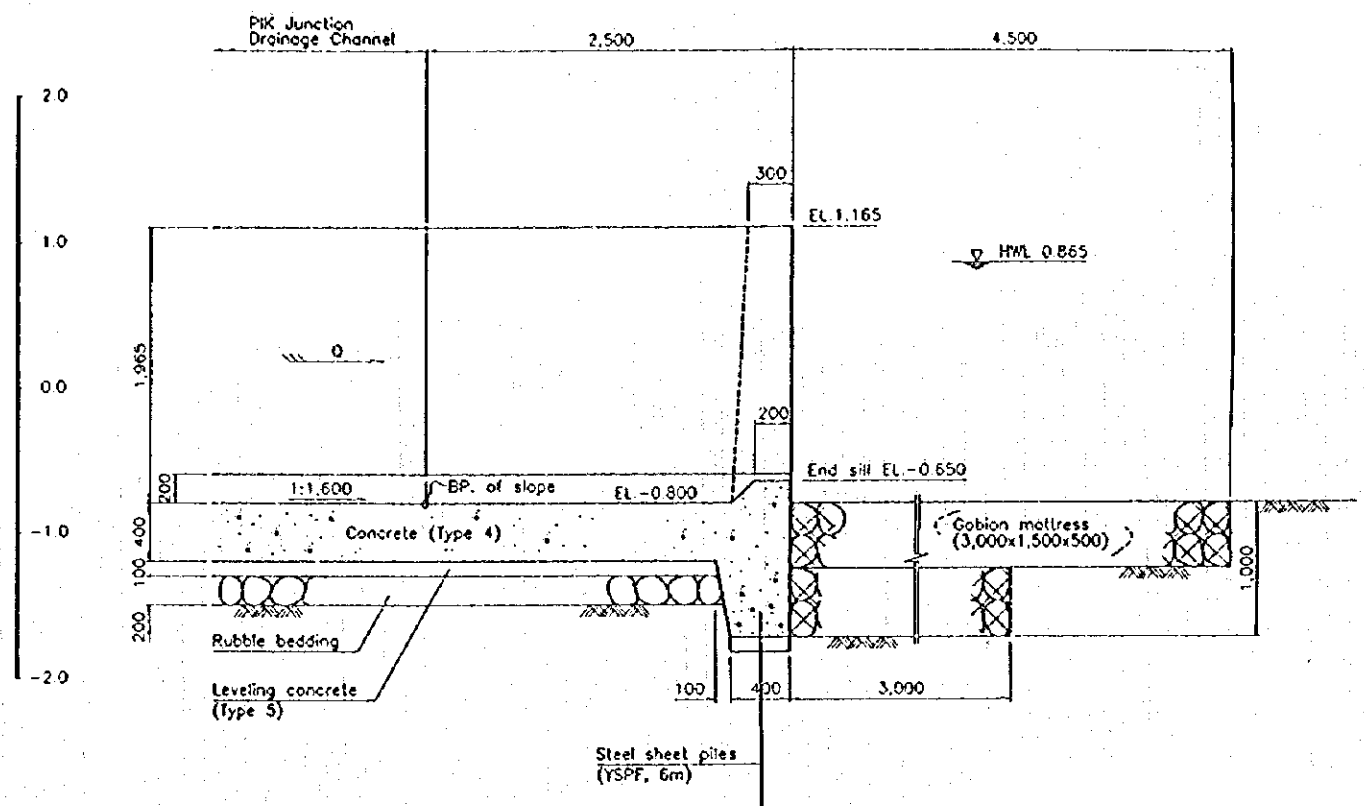
Design Elevation (m)	Revetment Crest		Channel Bed		Type		Cumulative Distance (m)		Distance (m)		Cross Section No.	
	1746.1	1825.4	1835.4	1840.4	1850.7	1922.3	1968.5	1977.7	2011.9	2043.0	2181.2	2306.4
		79.3	10.0	5.0	10.3	101.6	16.2	9.2	31.9	137.4	125.2	
	TM21	TM21+79.3	TM21+89.3	TM22	TM23	TM23+101.6	TM23+16.2	TM25	TM26	TM30	TM33	TM34



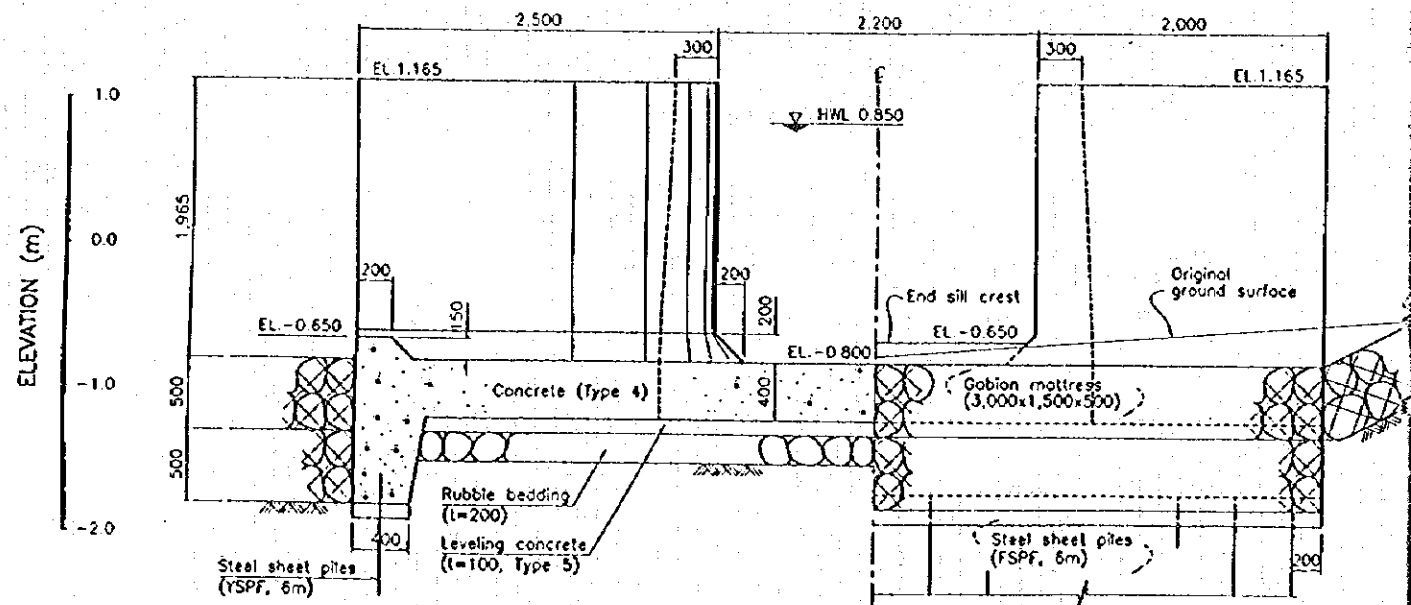
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED		CHANNEL STRUCTURES, REVELMENT, PROFILE, TAMJUNGAN DRAINAGE CHANNEL	
SUBMITTED		OWG NO.	DATE
DATE		J-20-30-301	
REFERENCE		OWG NO.	



PLAN
SCALE A

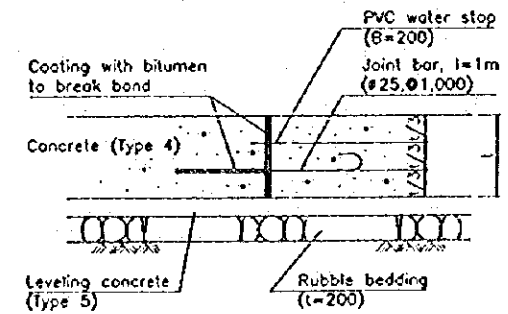


PROFILE (SECTION A-A)
SCALE B

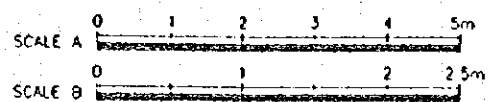


SECTION B-B
SCALE B

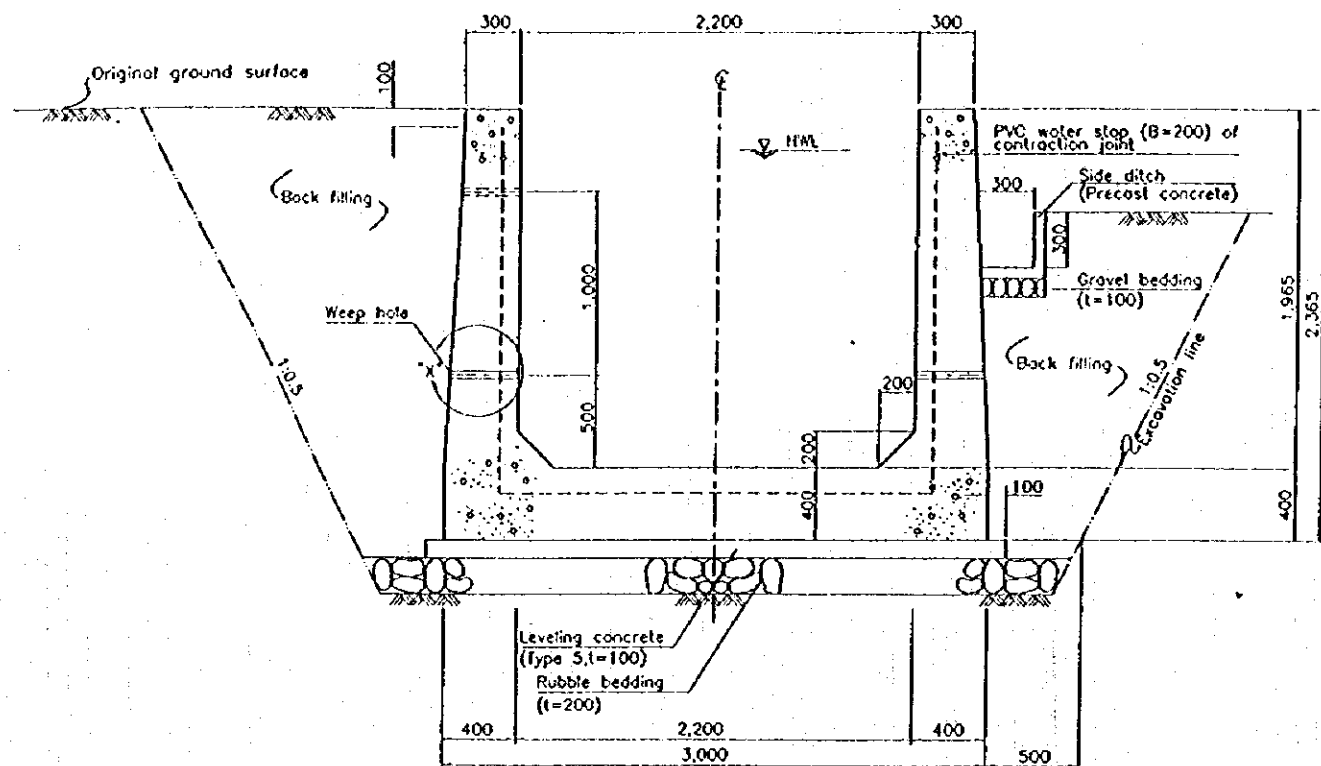
SECTION C-C
SCALE B



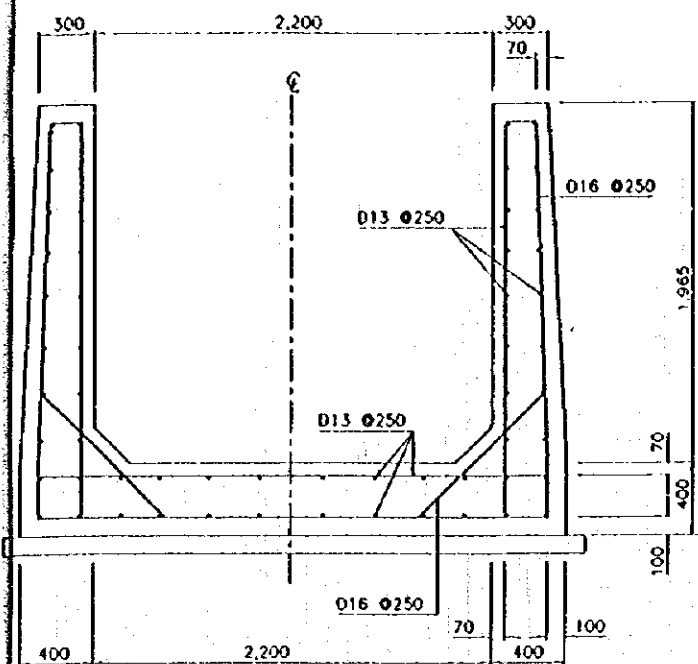
CONTRACTION JOINT



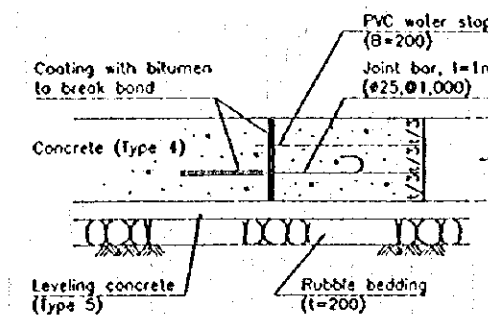
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING CHANNEL STRUCTURES, OUTLET PIK JUNCTION DRAINAGE CHANNEL	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-20-40-301	DATE
SUBMITTED.....			
REFERENCE	DC NO.		



TYPICAL CROSS SECTION

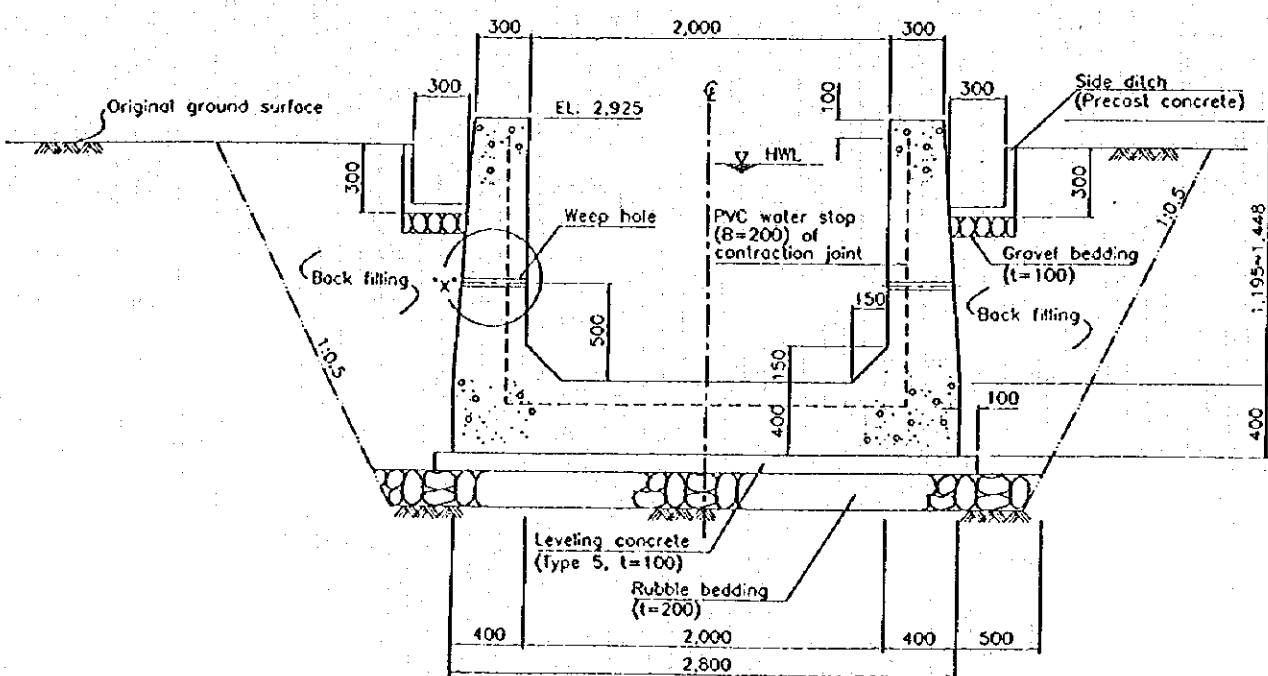


REINFORCING BAR ARRANGEMENT

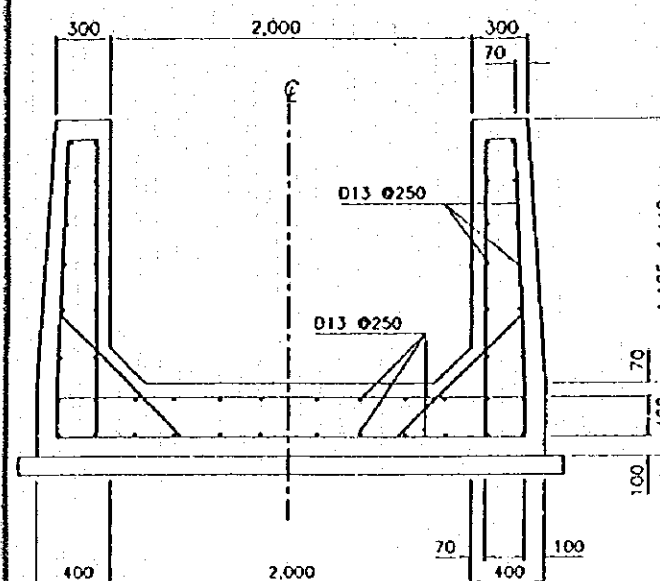


CONTRACTION JOINT

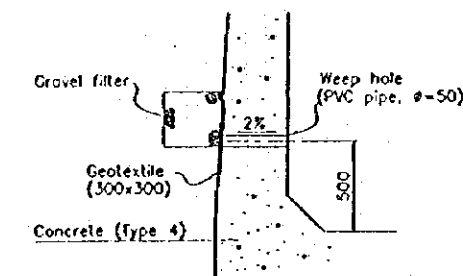
PIK JUNCTION DRAINAGE CHANNEL



TYPICAL CROSS SECTION



REINFORCING BAR ARRANGEMENT

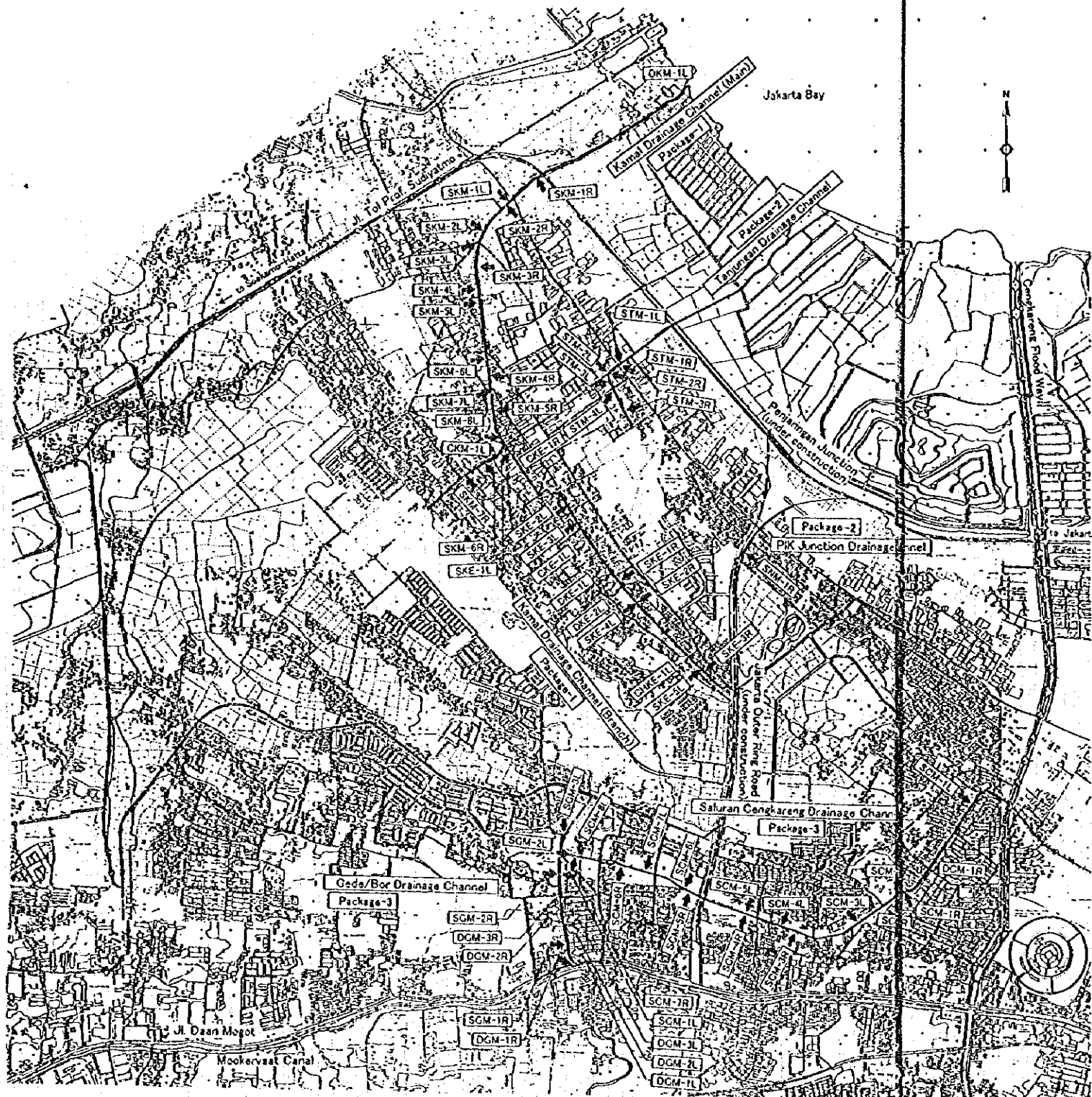


DETAIL "X"

KAMAL DRAINAGE CHANNEL
(BRANCH, UPSTREAM SECTION)



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
DATE.....		J-20-50-102	
REFERENCE	DWG NO.		



GENGKARENG WEST AREA



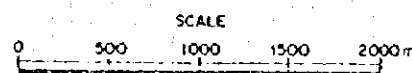
MERUYA AREA

SLUICEWAY AND DRAIN-DITCH

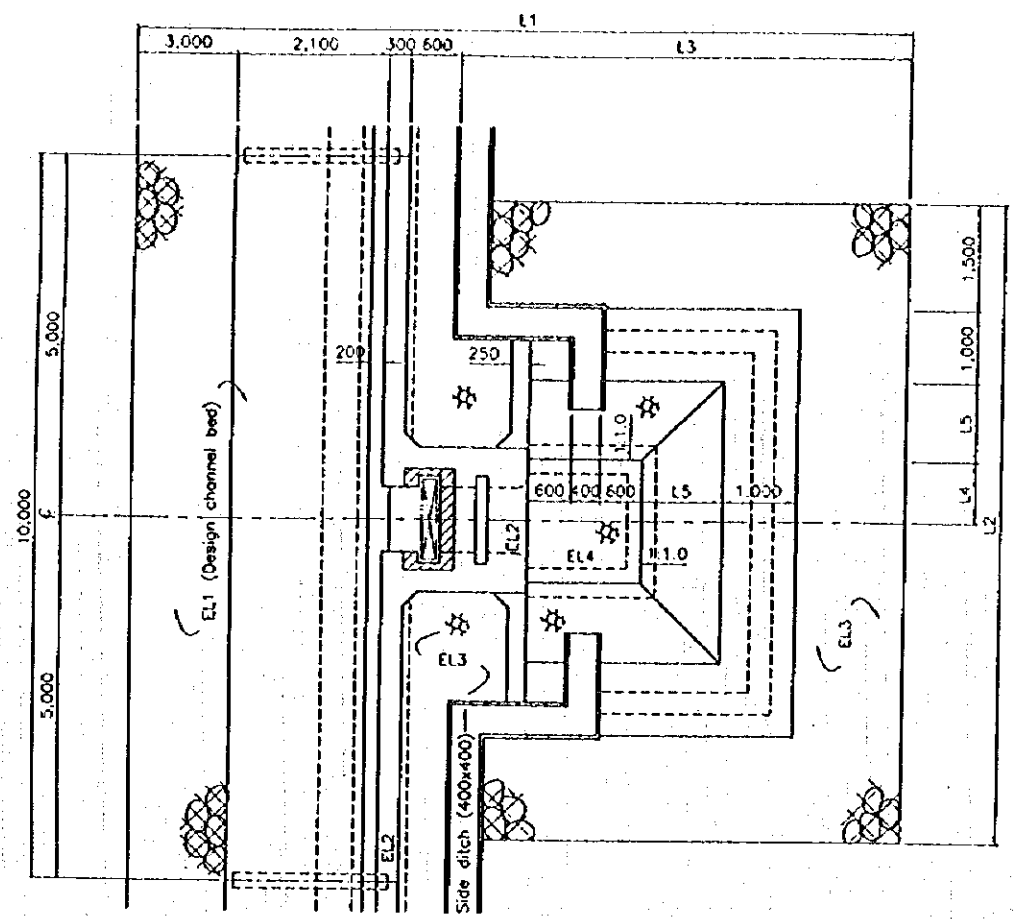
Left Bank			Right Bank			Left Bank			Right Bank		
No.	Facilities	Location	No.	Facilities	Location	No.	Facilities	Location	No.	Facilities	Location
Kampal Drainage Channel (Main)											
SKM-1L	Ditch	KW01-24a	SKM-1R	Sluiceway	KW17-20a	DCM-1L	Ditch	CM04-15a	DCM-1R	Ditch	CM03-0a
SKM-1L	Sluiceway	KW20-16a	SKM-2R	Sluiceway	KW27-6a	DCM-2L	Ditch	CM04-17a	DCM-1R	Sluiceway	CM04-44a
SKM-2L	Sluiceway	KW24-15a	SKM-2R	Sluiceway	KW27-42a	DCM-3L	Ditch	CM08-26a	DCM-2R	Ditch	CM08-13a
SKM-3L	Sluiceway	KW28-2a	SKM-4R	Sluiceway	KW40-32a	SGN-1L	Sluiceway	CM12-0a	DCM-3R	Ditch	CM08-41a
SKM-4L	Sluiceway	KW28-19a	SKM-5R	Sluiceway	KW45-6a	SGN-2L	Sluiceway	CM14-5a	DCM-2R	Sluiceway	CM12-0a
SKM-5L	Sluiceway	KW31-16a	SKM-6R	Sluiceway	KW50-11a	SGN-3L	Sluiceway	CM15-24a	DCM-2R	Sluiceway	CM12-0a
SKM-6L	Sluiceway	KW35-3a	SKM-7R	Sluiceway	KW54-20a	Saluran Cengkareng Drainage Channel					
SKM-7L	Sluiceway	KW42-7a				SCN-1L	Sluiceway	CM09-5a	DCM-1R	Ditch	CM09-44a
SKM-8L	Sluiceway	KW46-25a				SCN-2L	Sluiceway	CM16-12a	DCM-1R	Sluiceway	CM15-10a
DCM-1L	Culvert	KW52-2a				SCN-3L	Sluiceway	CM20-10a	DCM-2R	Sluiceway	CM16-4a
Kampal Drainage Channel (Branch)											
SKE-1L	Sluiceway	KE01-5a	SKE-1R	Culvert	KE01-5a	SCN-4L	Sluiceway	CM27-11a	DCM-3R	Sluiceway	CM26-1a
SKE-2L	Sluiceway	KE12-32a	SKE-1R	Sluiceway	KE21-5a	SCN-5L	Sluiceway	CM30-0a	DCM-4R	Sluiceway	CM30-0a
SKE-3L	Sluiceway	KE13-0a	SKE-2R	Sluiceway	KE25-5a	SCN-6L	Sluiceway	CM37-30a	DCM-5R	Sluiceway	CM37-0a
DKE-1L	Culvert	KE18-8a	SKE-3R	Sluiceway	KE31-0a	SCN-7L	Sluiceway	CM41-0a	DCM-6R	Sluiceway	CM43-30a
DKE-1L	Ditch	KE18-16a				SCN-8L	Sluiceway	CM47-14a	DCM-7R	Sluiceway	CM47-53a
DKE-2L	Ditch	KE21-17a				Pik Junction Drainage Channel					
SKE-4L	Sluiceway	KE25-5a	SNM-1R	Sluiceway	KW24-0a						
DKE-1L	Channel	KE30-10a									
SKE-5L	Sluiceway	KE31-42a									
Tanjungan Drainage Channel											
STM-1L	Sluiceway	TW25-12a	STW-1R	Sluiceway	TW25-12a						
STM-2L	Sluiceway	TW30-16a	STW-2R	Sluiceway	TW30-3a						
STM-3L	Sluiceway	TW30-16a	STW-3R	Sluiceway	TW36-0a						
STM-4L	Sluiceway	TW31-13a									

Note: 1. Based on cross section No in topographic survey

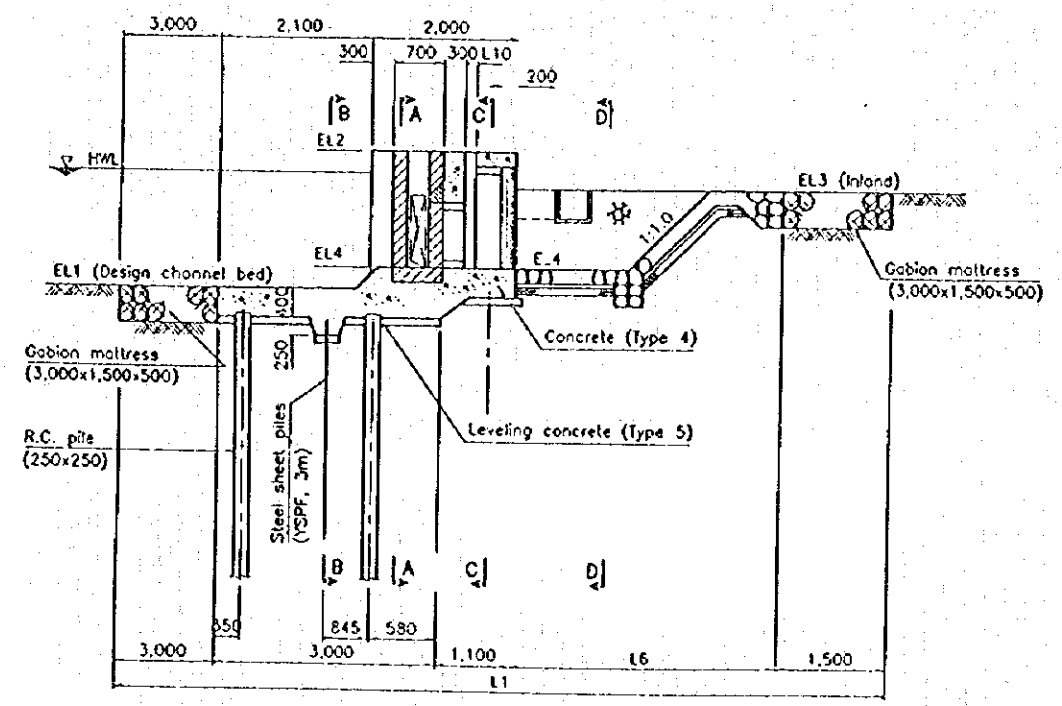
LEGEND	
	Boundary of project area
	Basin boundary (drainage channel)
	Basin boundary (sluiceway, drain-ditch)
	Sluiceway
	Culvert, Ditch or Channel



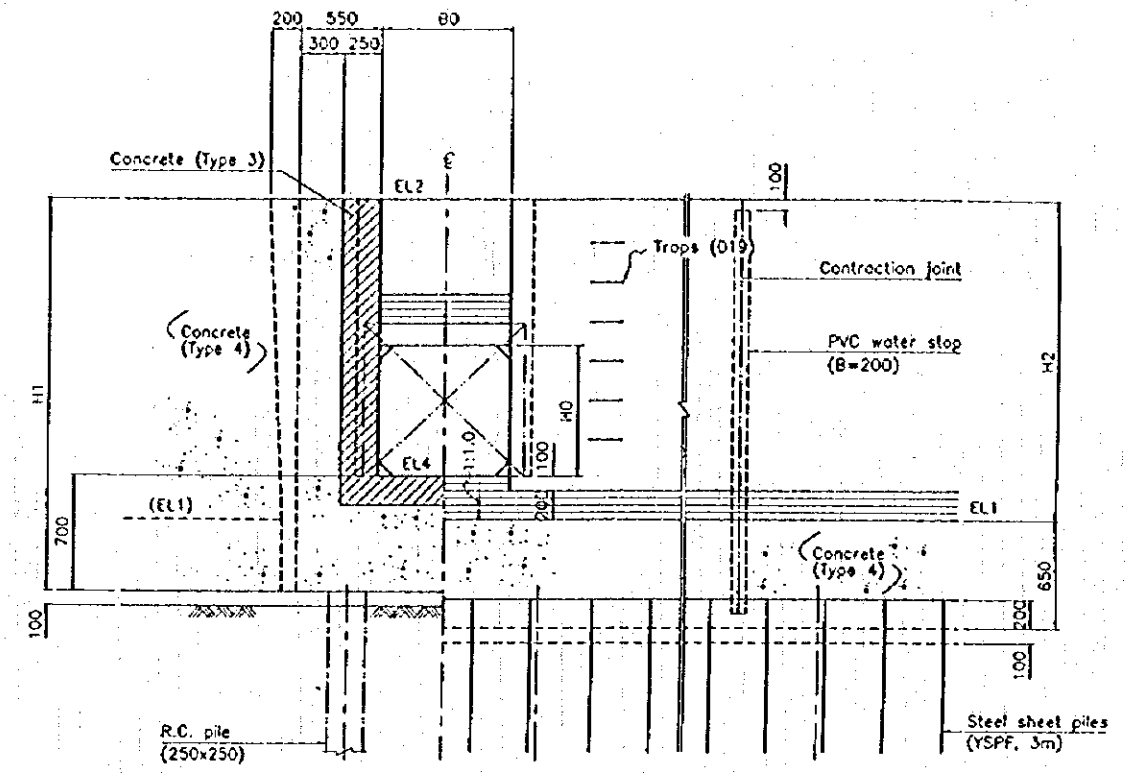
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, DRAINAGE AREA MAP	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO J-30-00-001	DATE
SUBMITTED.....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



PLAN

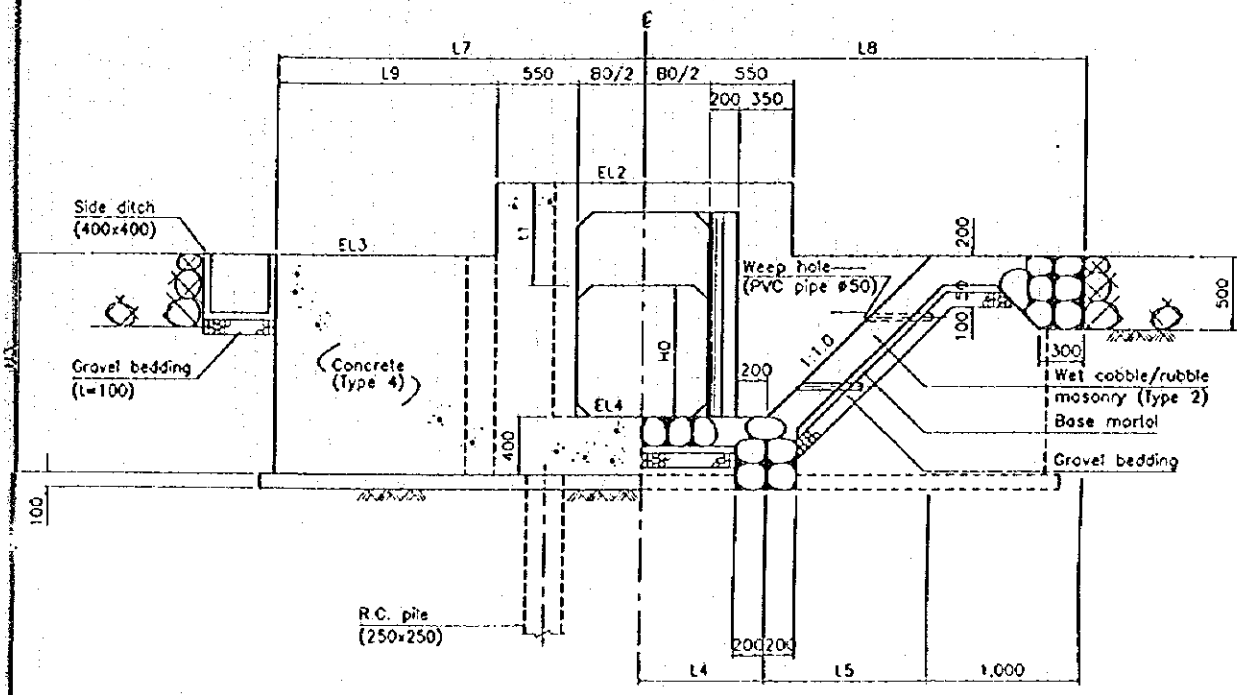


PROFILE



SECTION A-A

SECTION B-B

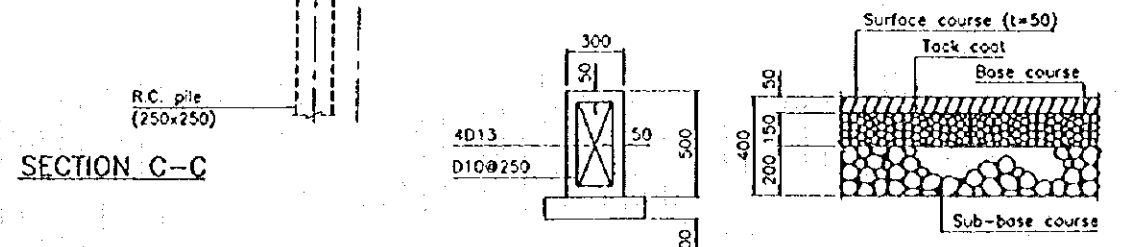
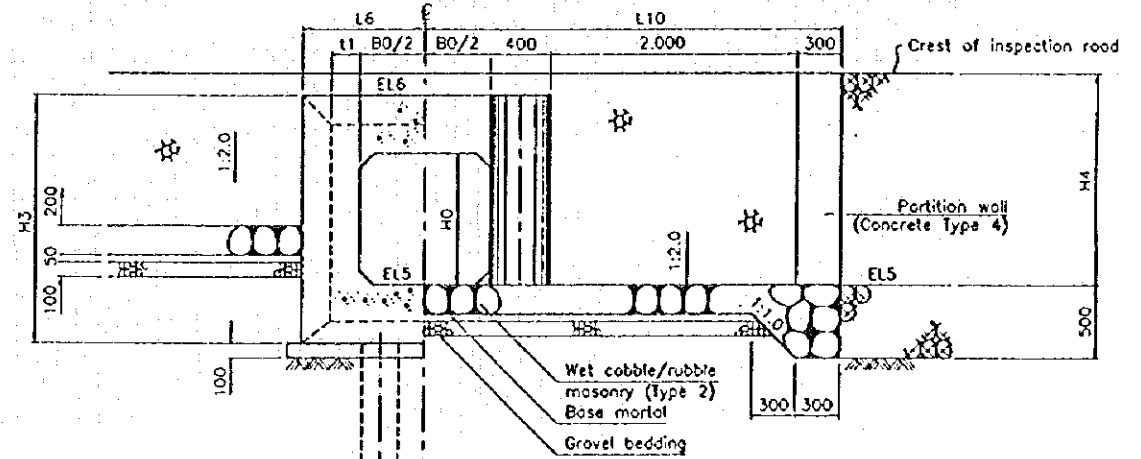
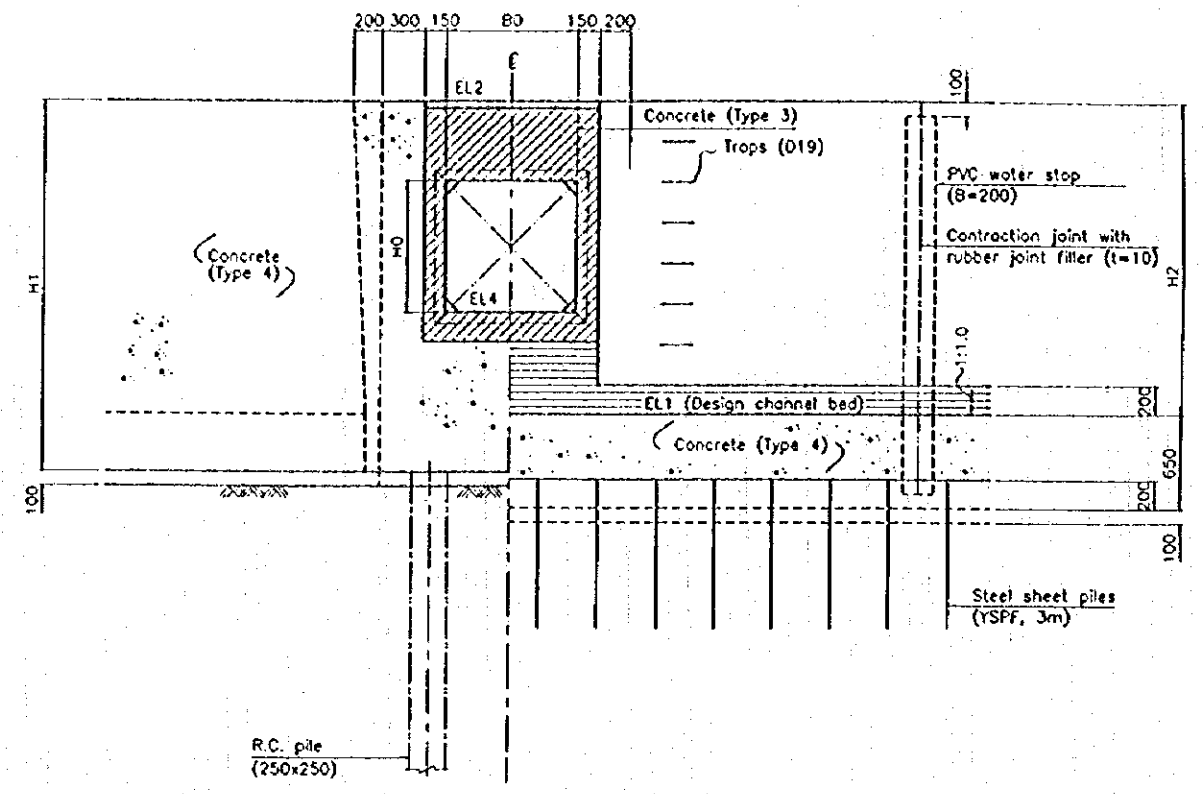
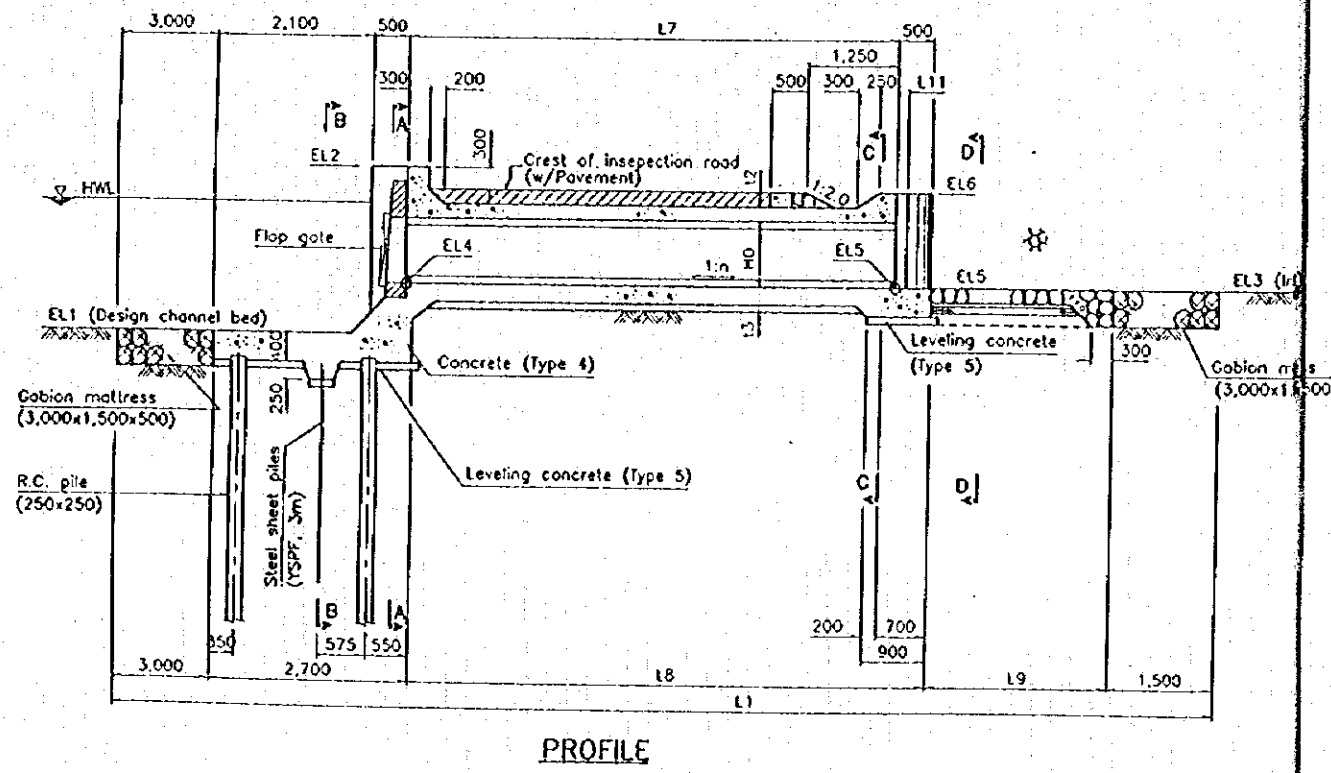
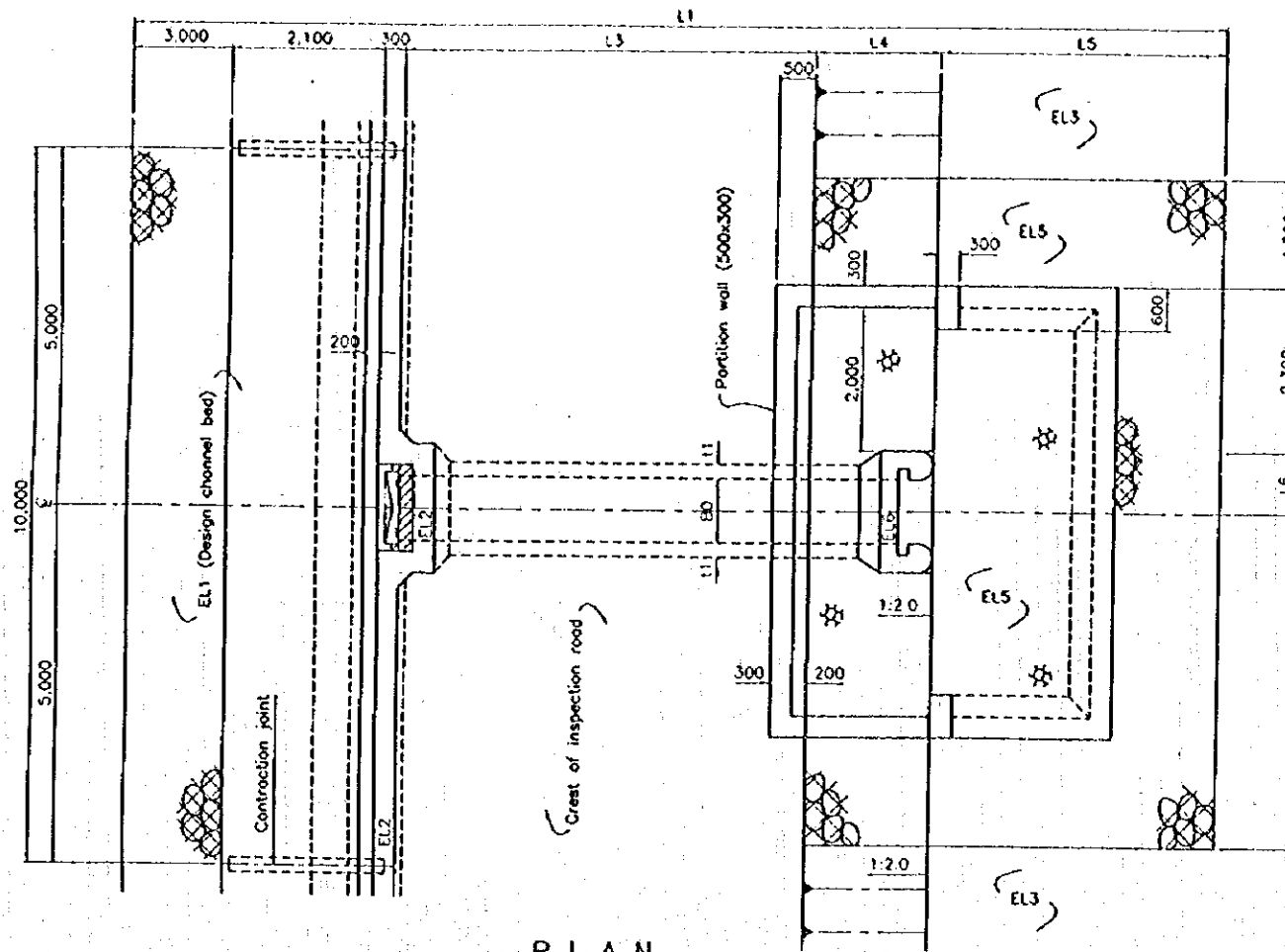


SECTION C-C

SECTION D-D

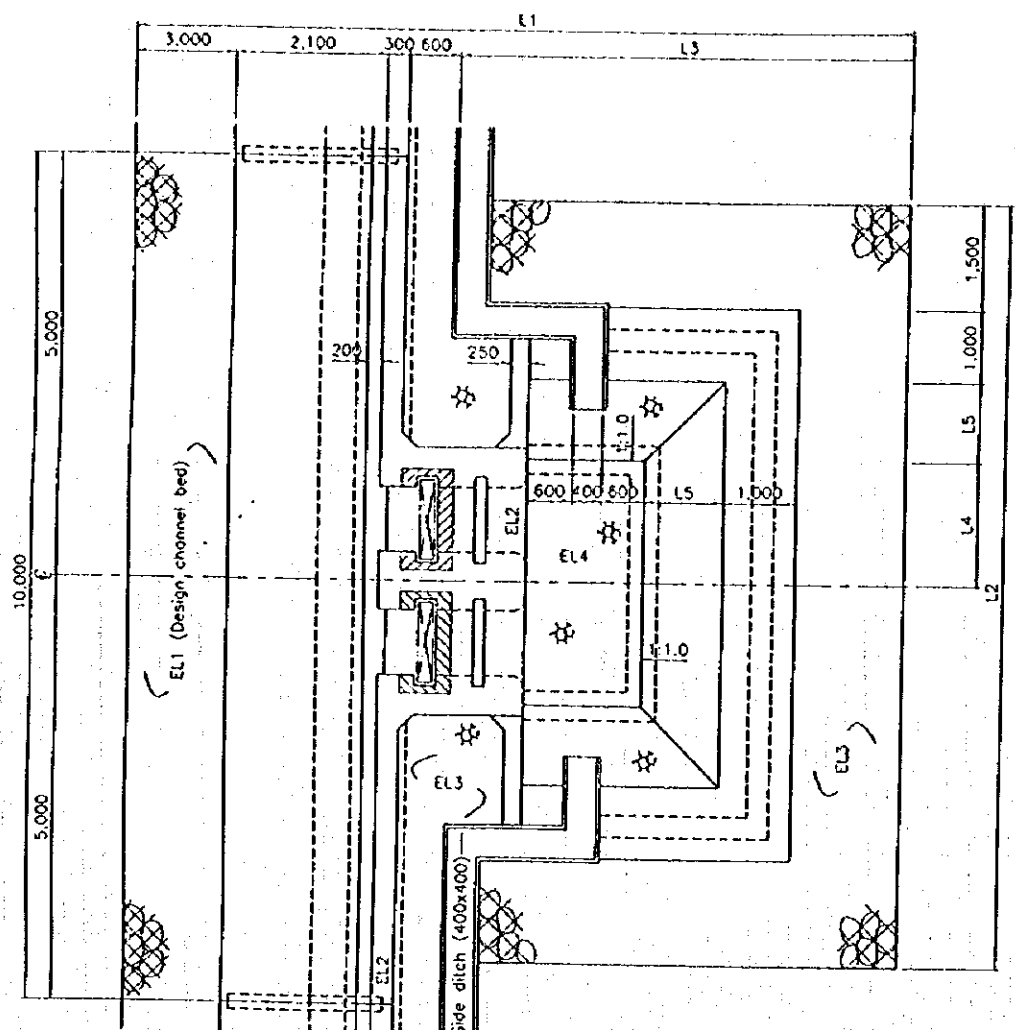
NOTE :
- For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUICeway, DIMENSION TABLES".

PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICeway, CONCRETE L-TYPE WALL SITE (2/4)	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-114	DATE
SUBMITTED.....			
REFERENCE	NO.	DATE	

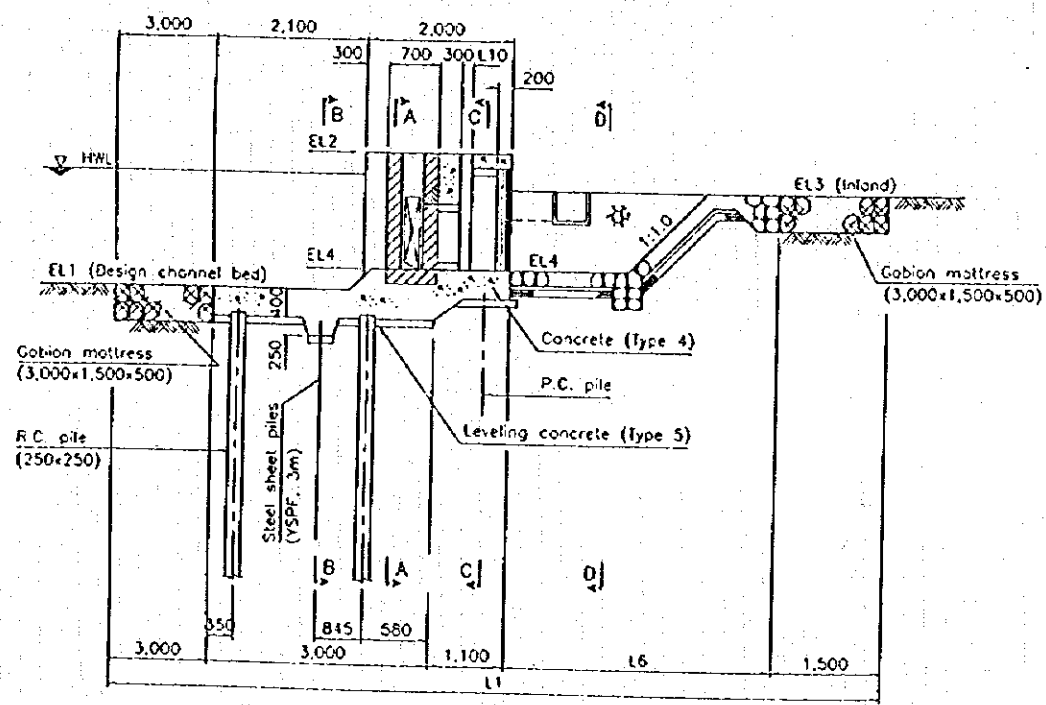


NOTE :
 - For the specific dimensions, see the drawings titled "DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES".

PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY, CONCRETE L-TYPE WALL SITE (3/4)	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-115	DATE
SUBMITTED.....			
REFERENCE	NO.	DATE	

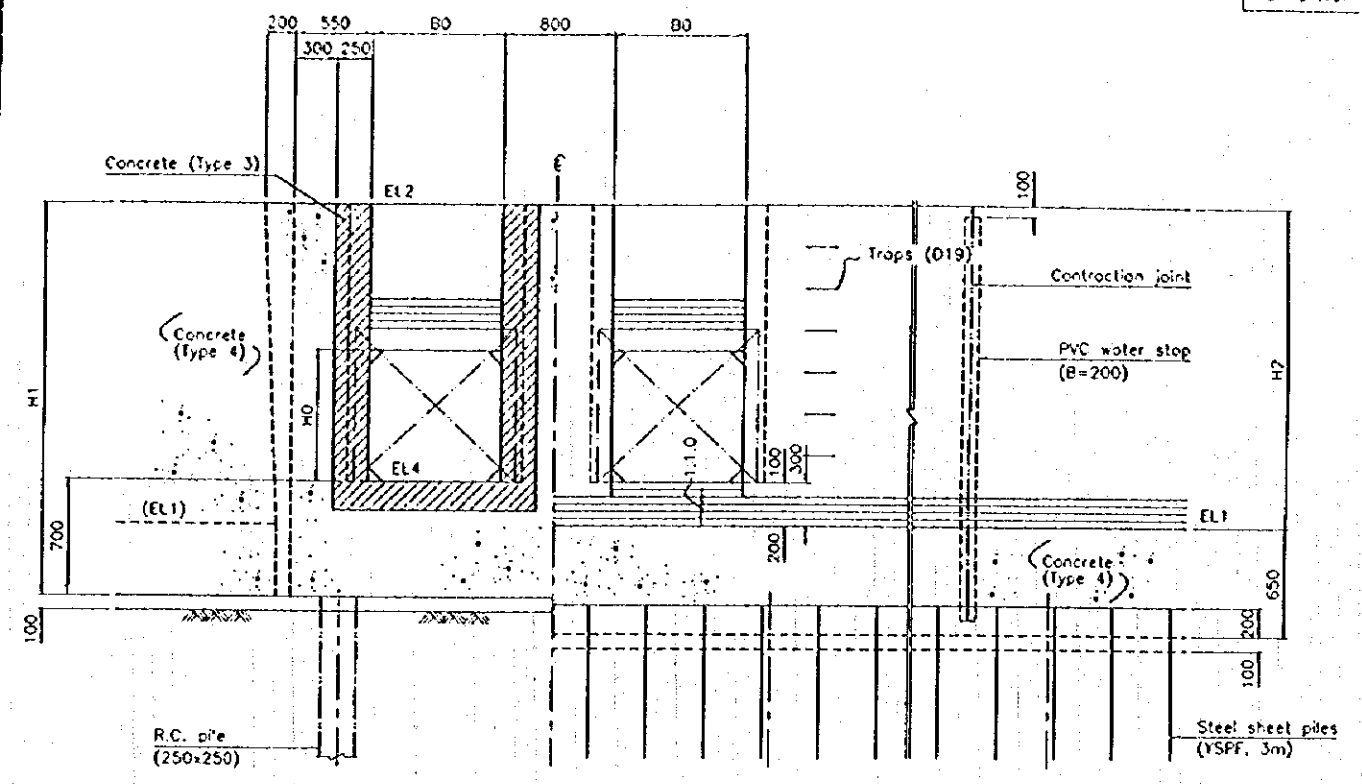


PLAN

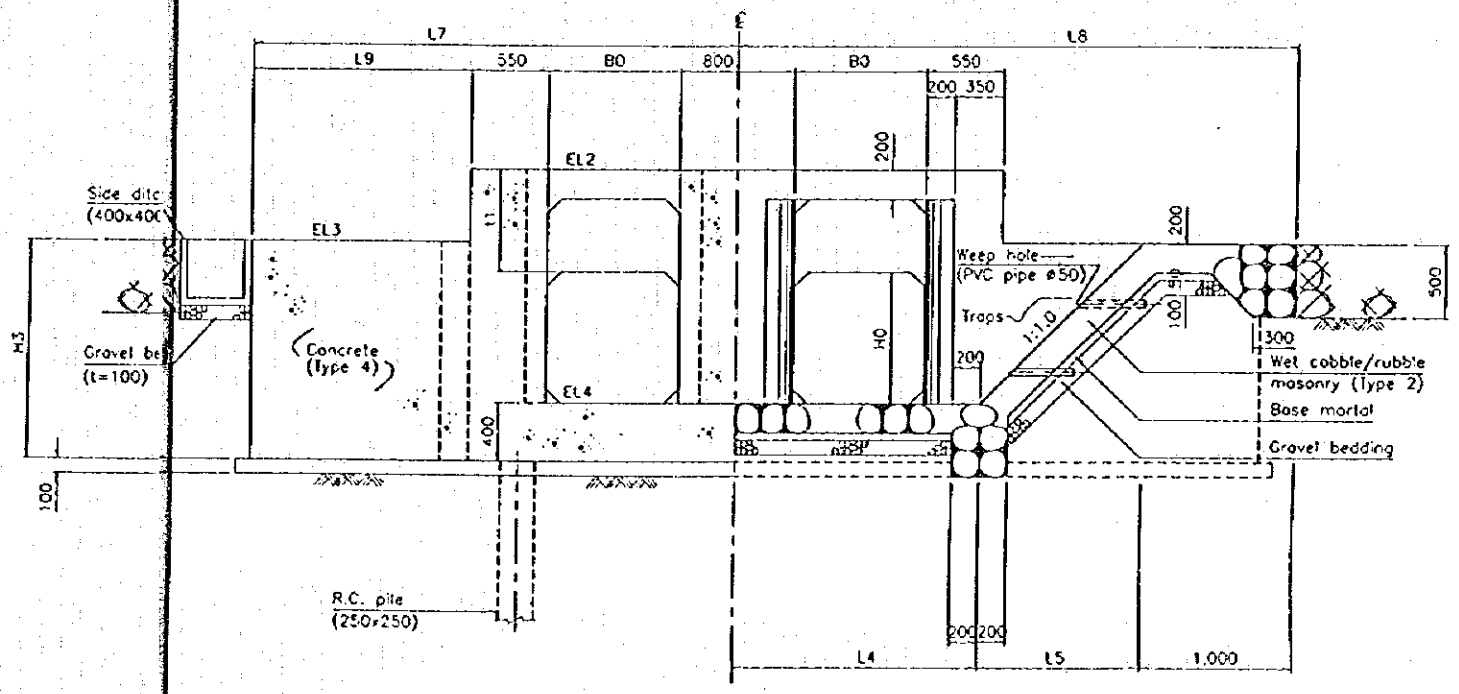


PROFILE

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



SECTION A-A SECTION B-B



SECTION C-C SECTION D-D

REFERENCE	NO.	DATE	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
			CHECKED.....		DRAINAGE FACILITIES, SLUICWAY, CONCRETE L-TYPE WALL SITE (4/4)	
			SUBMITTED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO.	DATE
					J-30-10-118	

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)	L16 (m)	a	B0 (m)	H0 (m)	H1 (m)	H2 (m)	H3 (m)	S2 (m)	
(1) Kamal drainage channel (Branch)																															
Left	SKE-1L	KE01+5m	1.425	0.223	1.970	1.1	-0.523	10.678	9.930	7.754	3.554	0.874	5.305	1.200	2.350	0.800	0.577	1.202	3.602	3.177	2.800	0.110	Level	0.6	0.6	0.647	2.147	1.202	0.977	2.450	
Right	SKE-1R	KE21+5m	2.225	1.035	2.538	1.8	-1.305	10.560	9.900	7.530	3.330	0.751	5.308	1.200	2.350	0.800	0.465	1.191	3.591	3.065	2.700	0.110	Level	0.6	0.6	0.403	1.903	1.191	0.665	2.450	
(2) Tanjung drainage channel																															
Left	STM-1L	TM25-13m	0.478	-0.907	0.903	0.40	-0.607	11.200	9.900	8.814	4.614	0.905	5.795	1.200	2.350	0.800	1.007	1.388	3.786	3.607	2.990	0.110	Level	0.8	0.8	0.710	2.210	1.388	1.407	2.450	
Right	STM-1R	TM25-13m	0.478	-0.907	0.903	0.20	-0.607	11.000	9.900	8.211	4.216	0.905	5.595	1.200	2.350	0.800	0.807	1.388	3.786	3.407	2.980	0.110	Level	0.8	0.8	0.710	2.210	1.388	1.207	2.450	
(3) Saluran Cengkareng drainage channel																															
Right	SCM-1R	CM15-10m	1.632	-0.396	1.992	1.3	-0.204	11.811	8.300	9.193	5.193	1.193	5.915	1.800	2.350	1.000	1.094	2.029	4.429	3.699	3.620	0.110	Level	1.2	1.2	0.585	2.765	2.029	1.496	2.650	
(4) Gede/Bor drainage channel																															
Right	SCM-1R	CM04+44m	2.809	1.032	3.019	2.40	1.532	11.157	5.900	8.337	4.337	0.994	3.663	1.200	2.350	0.800	0.828	1.578	3.978	3.468	3.170	0.110	Level	0.8	0.8	0.638	2.388	1.578	1.268	2.450	
Right	SCM-2R	CM12+0m	2.930	1.389	3.343	2.60	1.689	11.182	5.900	8.422	4.422	0.977	3.705	1.200	2.350	0.800	0.911	1.541	3.941	3.511	3.140	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)	L16 (m)	a	B0 (m)	H0 (m)	H1 (m)	H2 (m)	H3 (m)	S2 (m)	
(1) Kamal drainage channel (Main)																															
Left	SKM-3L	KM28+2m	0.850	-0.641	1.374	0.7	-0.541	10.987	6.600	9.783	4.783	1.108	4.991	1.900	2.350	1.150	1.241	1.691	4.091	3.241	3.290	0.110	Level	1.5	1.3	0.615	2.815	1.691	1.641	2.600	

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)	L16 (m)	L17 (m)	L18 (m)	a	B0 (m)	H0 (m)	H1 (m)	H2 (m)	H3 (m)	S2 (m)
(1) Kamal drainage channel (Branch)																																
Left	SKE-2L	KE18-32m	1.834	0.619	2.174	1.8	1.274	10.284	5.500	7.252	4.252	0.777	5.007	1.100	2.200	0.800	0.528	0.808	2.658	3.128	1.750	0.978	1.478	0.110	Level	0.4	0.4	0.500	1.955	1.217	0.928	2.250
Right	SKE-3L	KE13+0m	1.916	0.697	2.242	1.8	1.342	10.218	5.500	7.116	4.116	0.773	4.945	1.100	2.200	0.800	0.459	0.810	2.660	3.058	1.760	0.968	1.408	0.110	Level	0.4	0.4	0.500	1.945	1.210	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)	a	B0 (m)	H0 (m)	H1 (m)	H2 (m)	H3 (m)	H4 (m)						
(1) PK Junction drainage channel																															
Right	SNM-1R	NM34+0m	1.973	0.308	2.273	1.500	0.608	8.992	8.684	0.300	5.092	0.950	0.882	3.492	2.342	2.842	1.242	0.110	Level	1.1	1.1	2.385	0.400	1.665	1.292						
(2) Saluran Cengkareng drainage channel																															
Left	SCM-1L	CM05-3m	1.391	-0.877	1.724	1.300	-0.177	7.577	10.053	0.400	8.577	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)	L11 (m)	a	B0 (m)	H0 (m)	H1 (m)	H2 (m)	H3 (m)							
(1) Kamal drainage channel (Branch)																															
Left	SKE-3L	KE31-43m	2.645	1.551	2.923	2.500	2.025	6.109	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	SKE-3R	KE31+0m	2.649	1.575	2.925	2.500	2.025	6.100	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								

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)	a	H0 (m)	H1 (m)	H2 (m)	H3 (m)	H4 (m)					
(1) Tanjung drainage channel																															
Right	STM-3R	TM35+0m	0.809	-0.817	1.024	-0.800	-0.517	-0.448	0.924	16.740	9.200	5.000	2.340	4.000	0.800	6.140	6.340	2.500	3.100	0.110	80	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)	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)	a	B0 (m)	H0 (m)	H1 (m)	H2 (m)	H3 (m)					
(1) Tanjung drainage channel																															
Left	STM-3L	TM30+18m	0.504	-0.888	0.929	0.400	-0.588	12.188	8.578	6.188	0.800	0.938	3.588	2.288	2.788	1.338	0.110	Level	0.8	0.8	0.710	1.817	1.388								
Right	STM-3R	TM33+13m	0.514	-0.881	0.965	0.200	-0.581	11.961	8.323	5.681	0.600	0.781	3.381	2.161	2.661	1.111	0.110	Level	1.0	1.0	0.520	1.627	1.181								

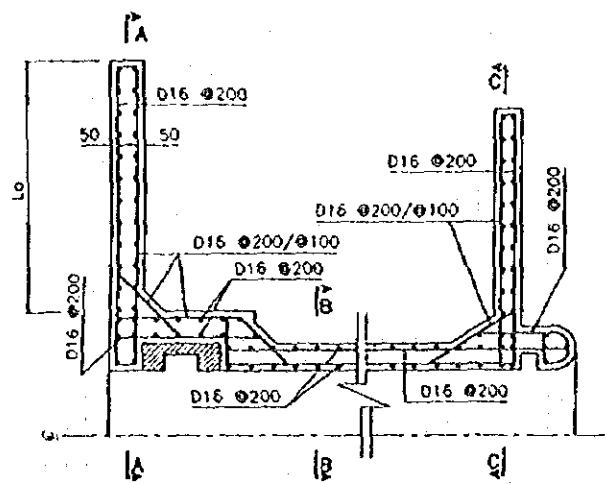
SLUICWAY AT CONCRETE L-TYPE WALL SITE, 1 LANE, FLAP GATE, DWG. NO. J-30-10-115

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)	a	H0 (m)	H1 (m)	H2 (m)	H3 (m)	H4 (m)					
(1) Tanjung drainage channel																															
Right	STM-2R	TM30+3m	0.500	-0.890	0.928	0.100	-0.290	-0.139	0.828	15.930	8.800	5.000	1.530	4.000	0.600	5.830	6.230	2.500	2.900	0.110	45	0.4	0.15	0.15	0.15	2.216	1.816	1.365	0.800		

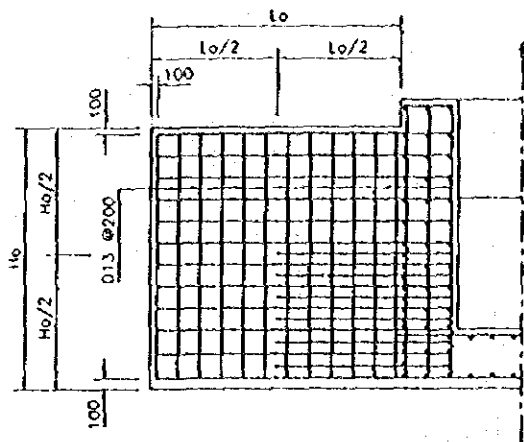
SLUICWAY AT CONCRETE L-TYPE WALL SITE, 2 LANES, SLIDE GATE, DWG. NO. J-30-10-116

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)	L11 (m)	a	B0 (m)	H0 (m)	H1 (m)	H2 (m)	H3 (m)							
(1) Tanjung drainage channel																															
Left	STM-2L	TM30-16m	0.495	-0.893	0.922	-0.100	-0.593	11.693	9.186	5.893	1.600	0.493	3.093	2.593	3.093	0.643	0.110	Level	1.0	1.0	0.510	1.815	0.893								

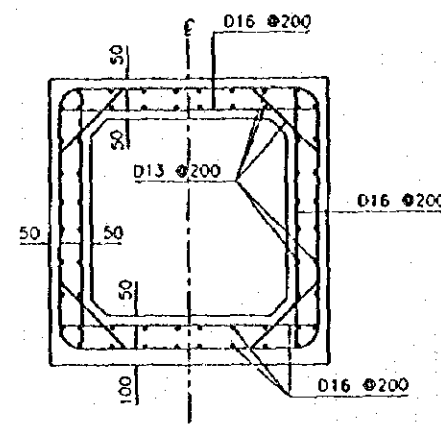
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY, DIMENSION TABLES (2/2)	APPROVED
CHECKED.....			
SUBMITTED.....			
REFERENCE NO. DATE.....			
JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT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



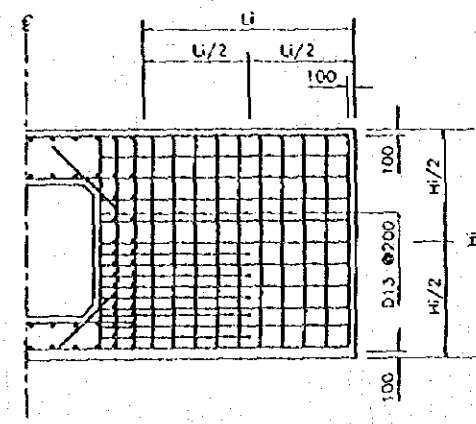
PLAN



SECTION A-A



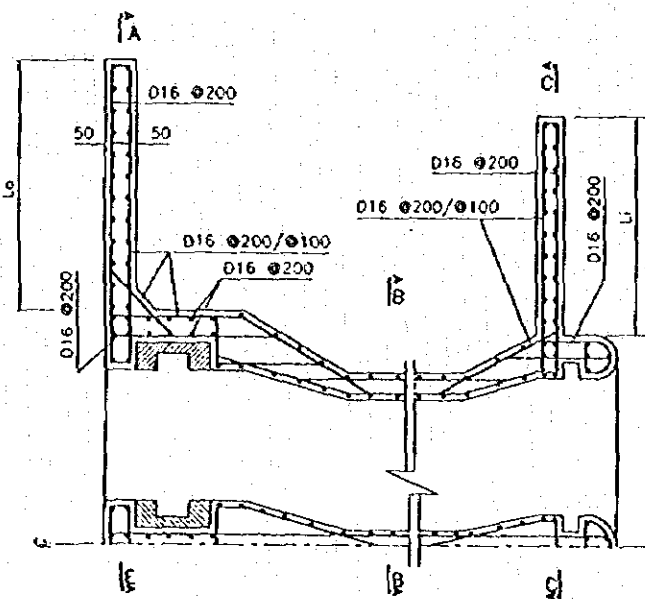
SECTION B-B



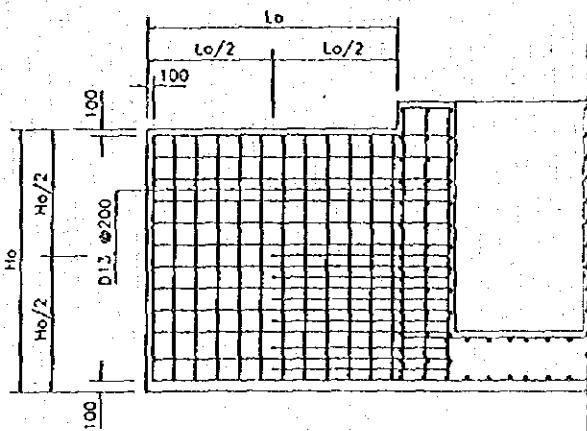
SECTION C-C

SLUICWAYS AT LEVEARTH TYPE SITES(1 LANE)

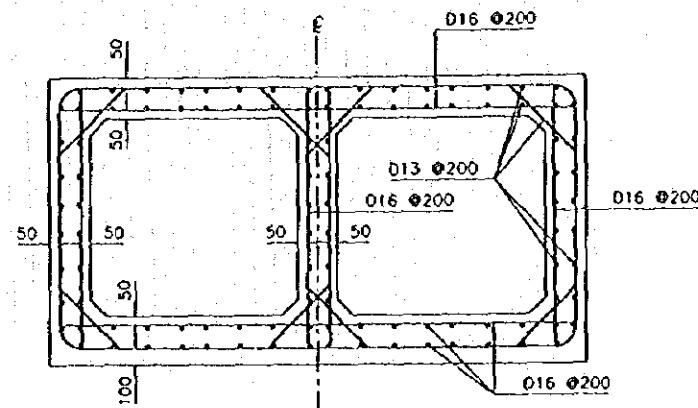
Ref. DWG. J-30-10-101



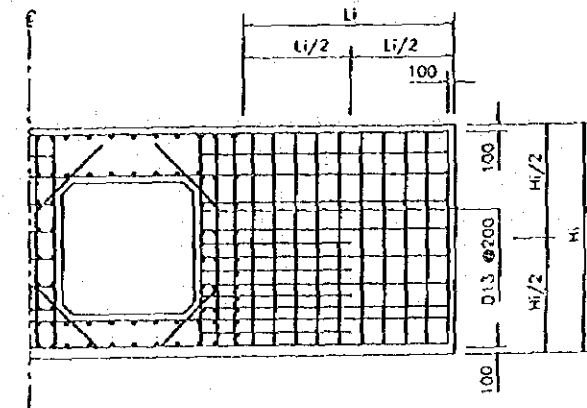
PLAN



SECTION A-A



SECTION B-B



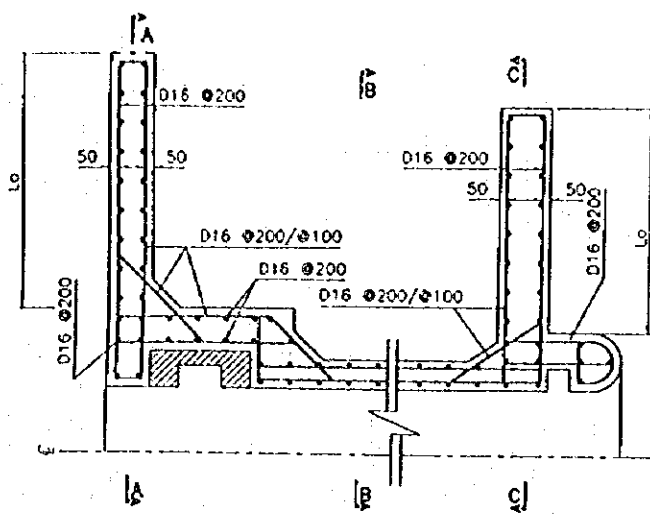
SECTION C-C

SLUICWAYS AT LEVEARTH TYPE SITES(2 LANES)

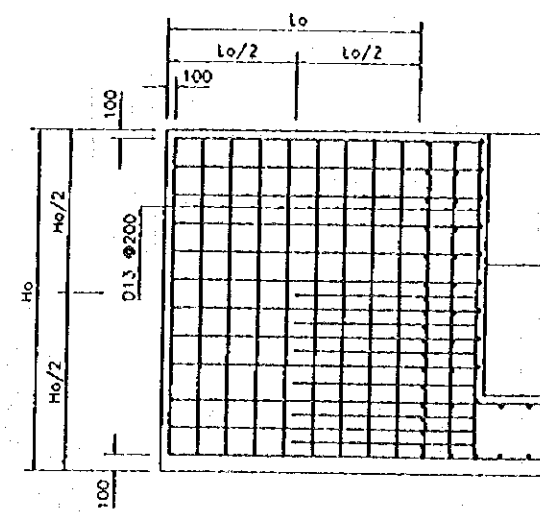
Ref. DWG. J-30-10-102

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

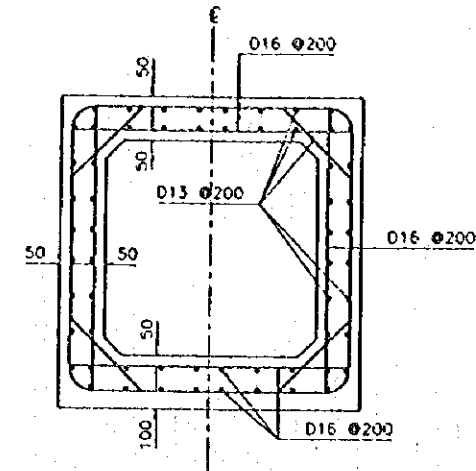
REFERENCE	NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED	
		CHECKED.....		DRAINAGE FACILITIES, SLUICWAY REINFORCING BAR ARRANGEMENT (1/5)		
		SUBMITTED.....		DWG NO.		DATE
		DATE.....		J-30-10-301		
			JAPAN INTERNATIONAL COOPERATION AGENCY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



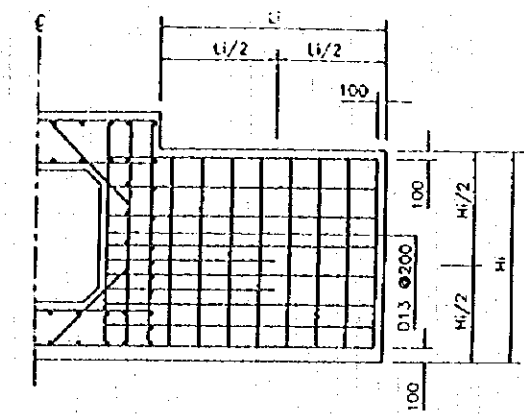
PLAN



SECTION A-A

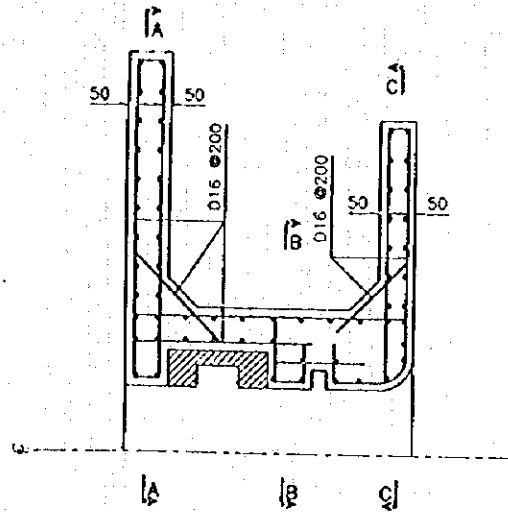


SECTION B-B

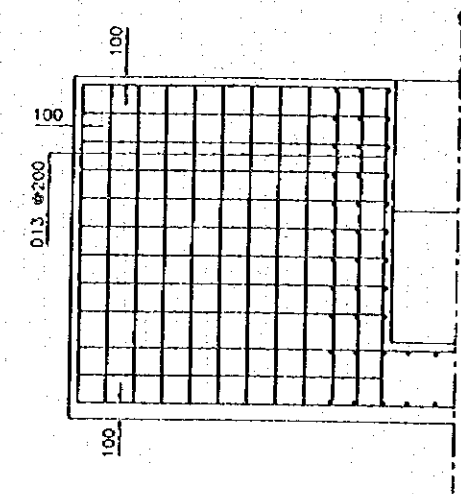


SECTION C-C

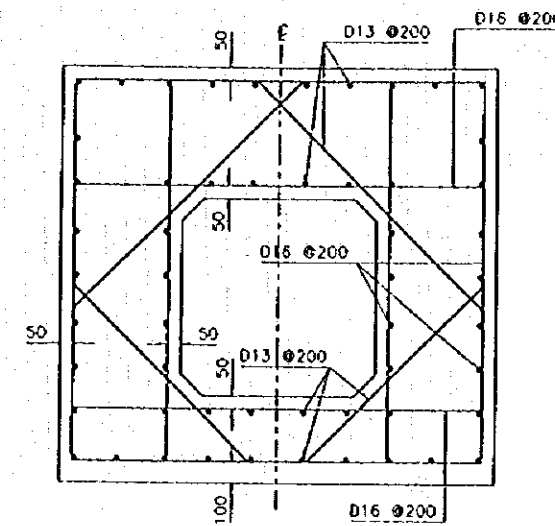
SLUICWAYS AT LEVEL PARAPET WALL TYPE SITES (1 LANE)
 Ref. NO. J-30-10-103



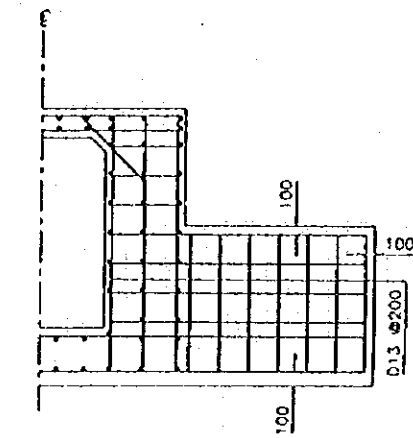
PLAN



SECTION A-A



SECTION B-B

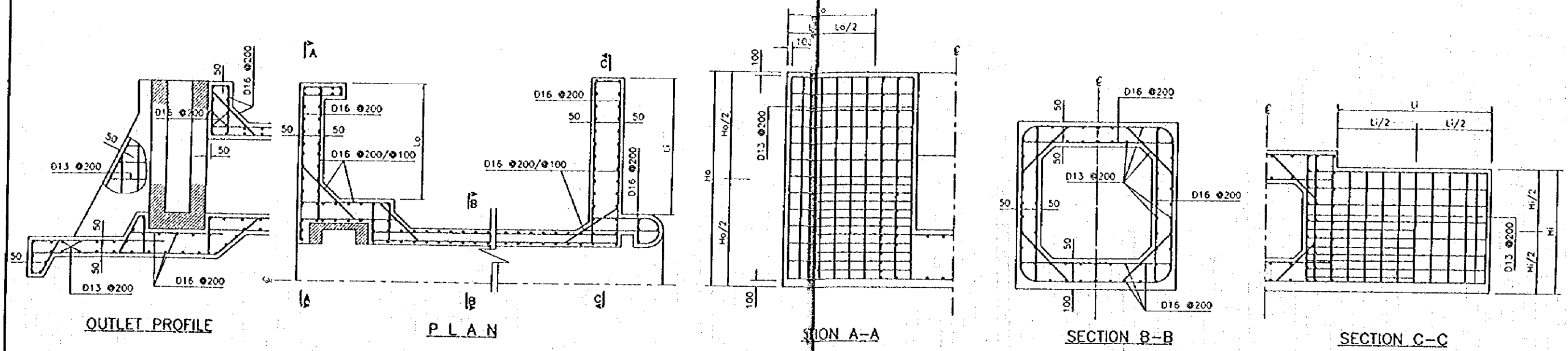


SECTION C-C

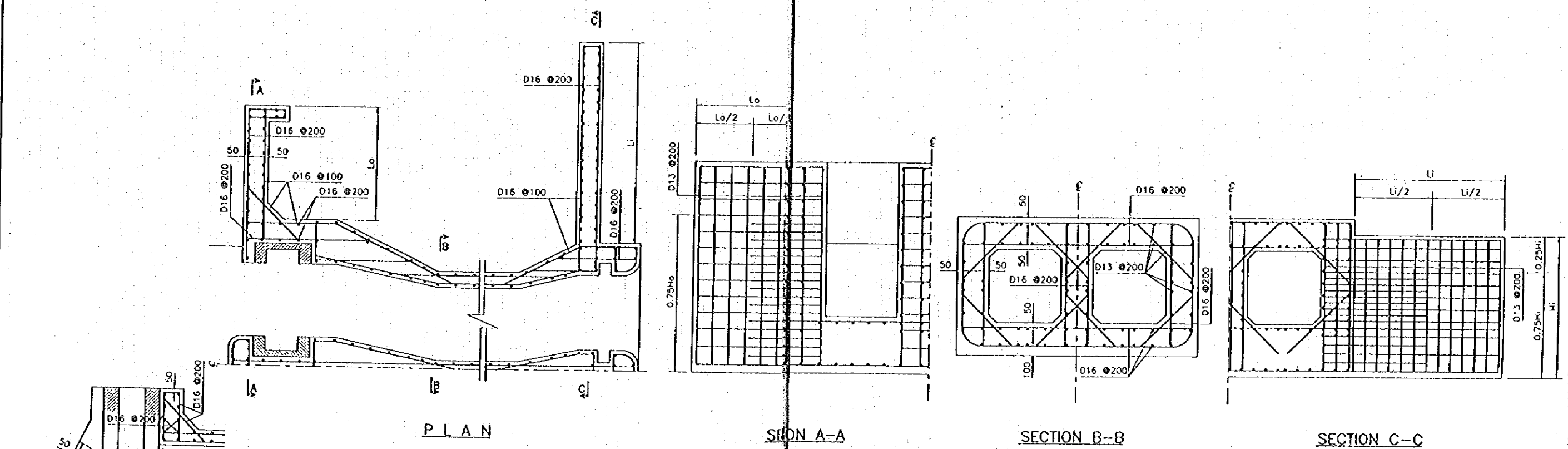
SLUICWAYS AT LEVEL PARAPET WALL TYPE SITES (1 LANE)
 Ref. NO. J-30-10-104

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

REFERENCE	NO.	DATE	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICWAY REINFORCING BAR ARRANGEMENT (2/3)	APPROVED
			CHECKED.....			
REFERENCE	NO.	DATE	SUBMITTED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-302	DATE
			DATE.....			



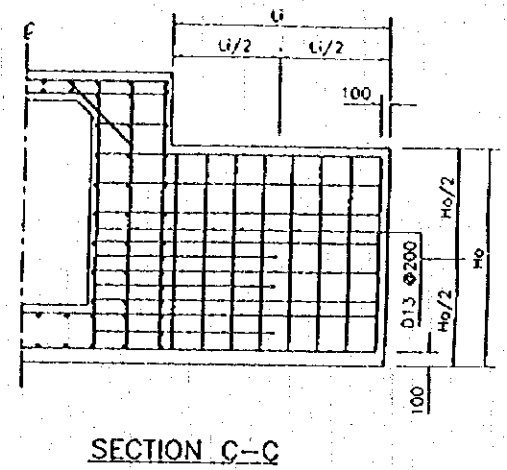
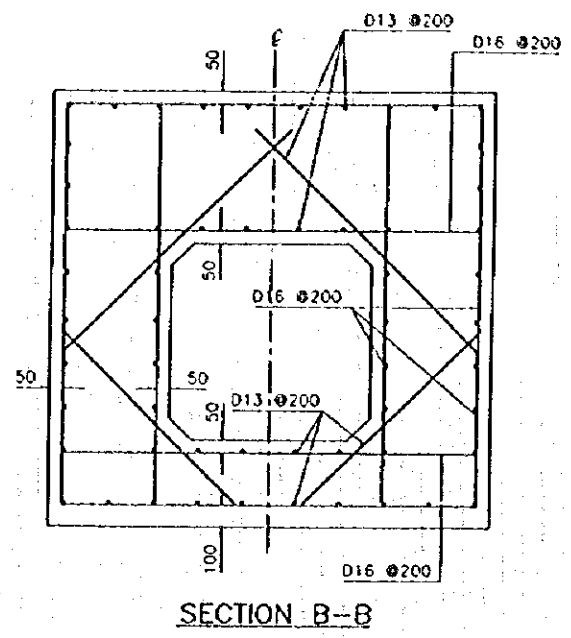
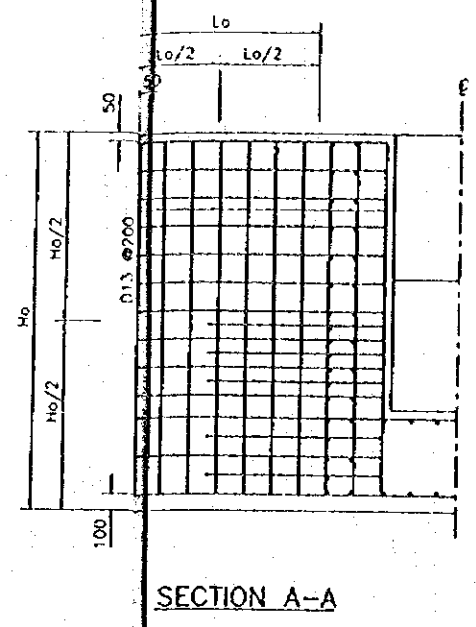
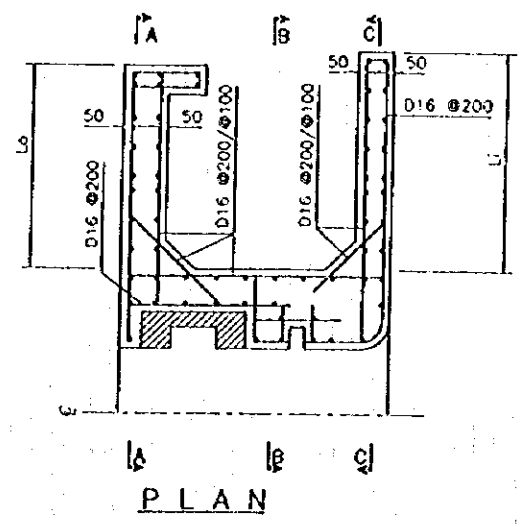
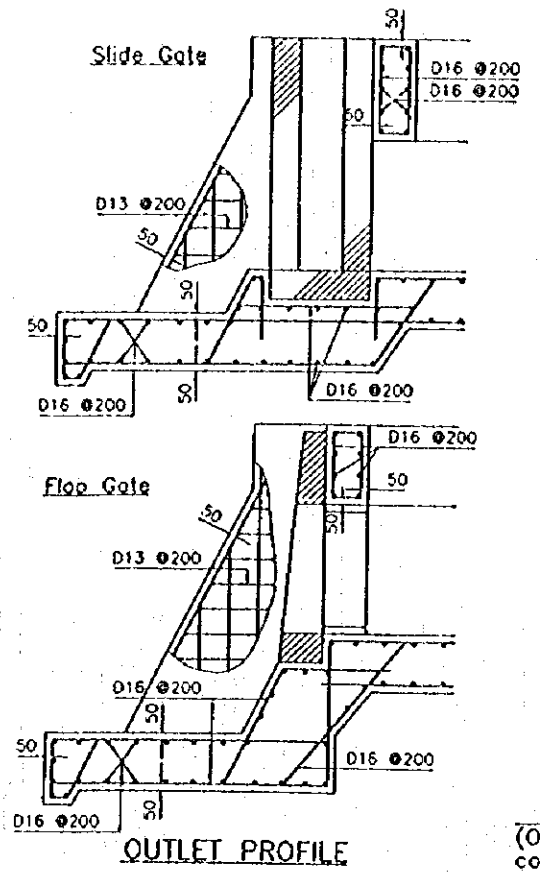
SLUICEWAYS AT REVENT TYPE I, II SITES (1 LANE)
 Ref. DWG. NC-30-10-105 and J-30-10-106



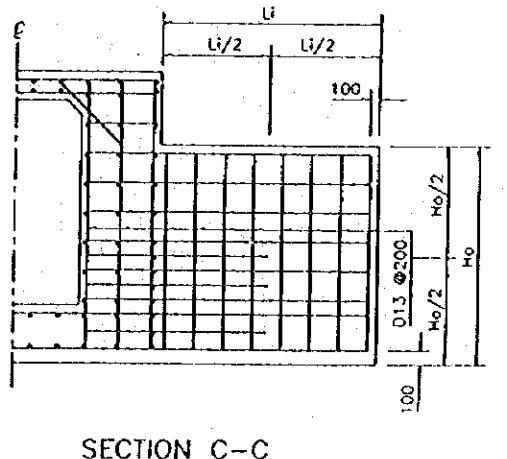
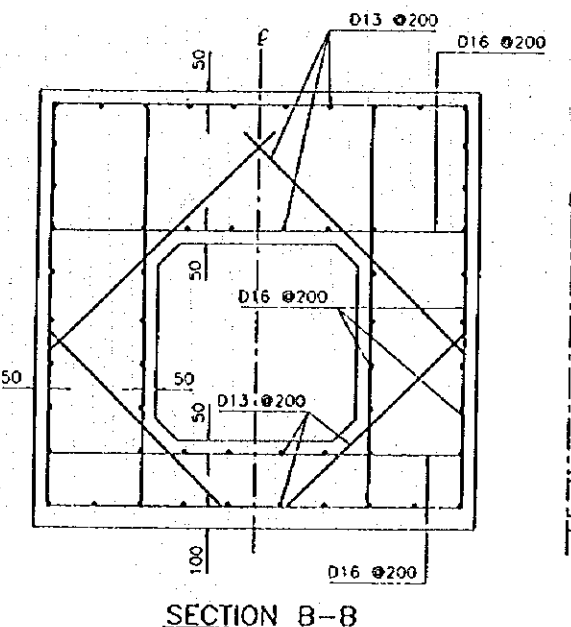
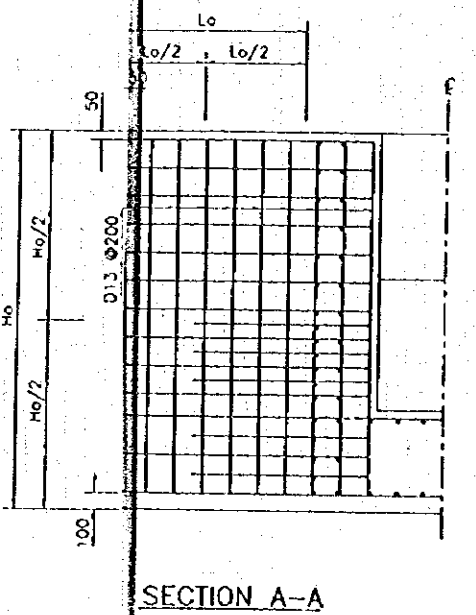
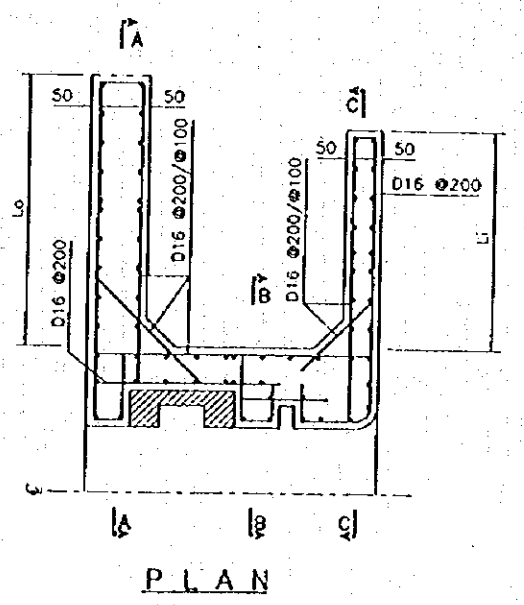
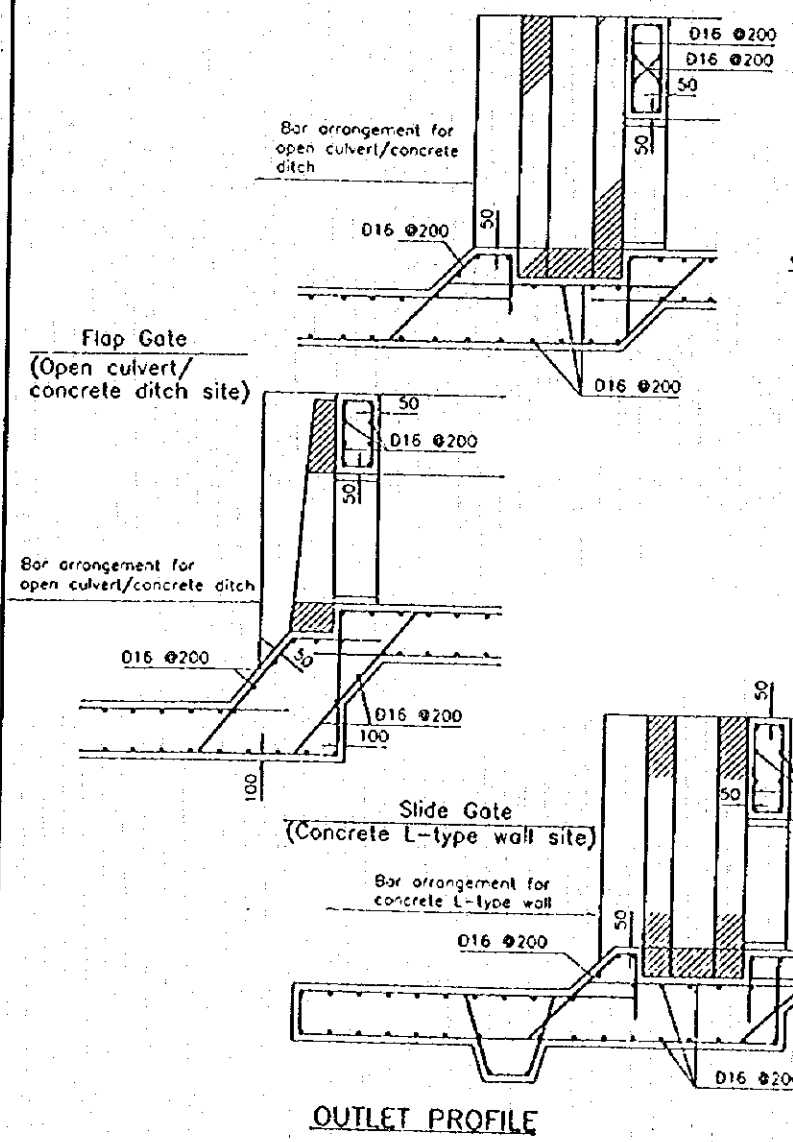
SLUICEWAYS AT REVENT TYPE II SITES (2 LANES)
 Ref. DWG. J-30-10-110

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

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



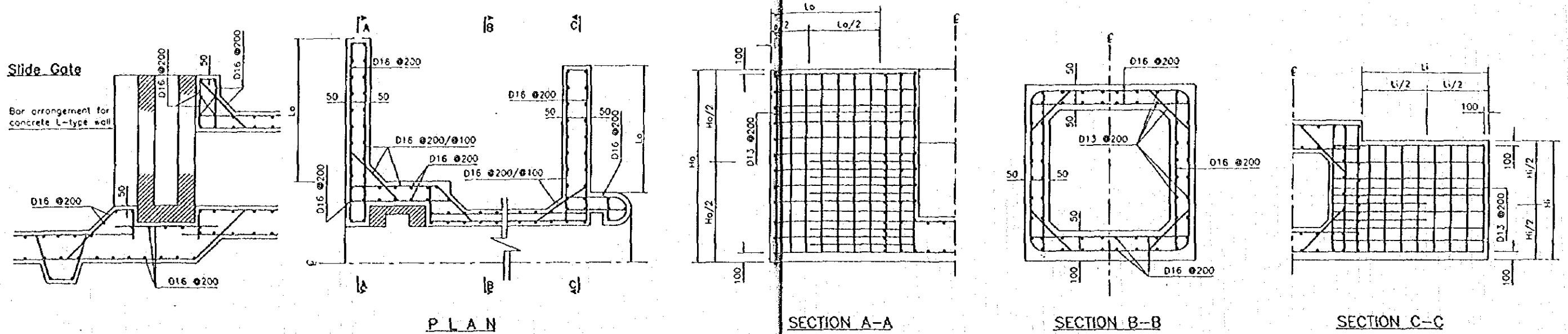
SLUICWAYS REVETMENT TYPE II SITES (1 LANE)
Ref. DWG. Nos. J-30-10-107, J-30-10-108 and J-30-10-109



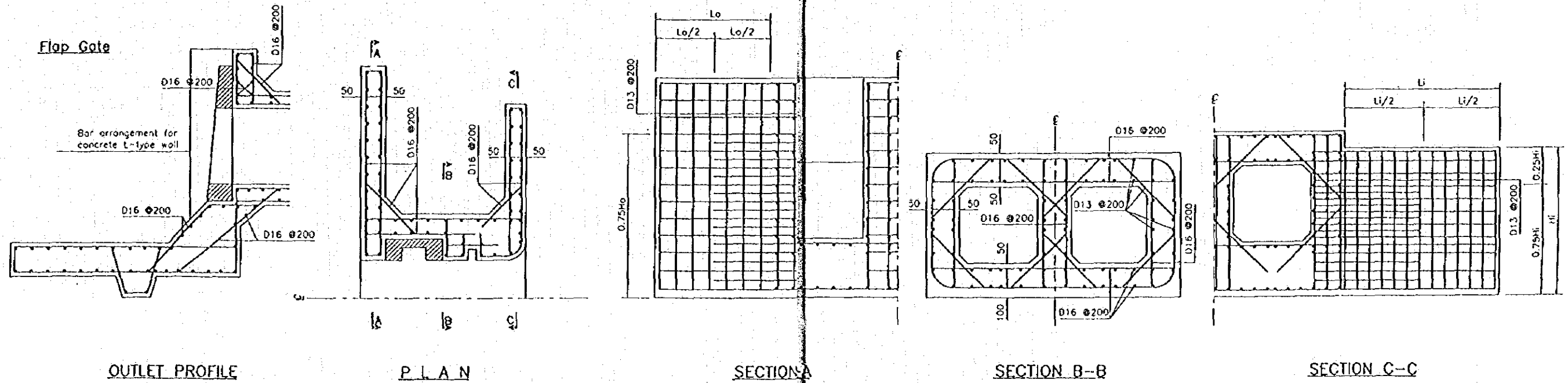
SLUICWAYS AT OPEN CULVERT & CONCRETE DITCH, CONCRETE L-TYPE WALL SITES (1 LANE)
Ref. Nos. J-30-10-111, J-30-10-112 and J-30-10-114

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

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



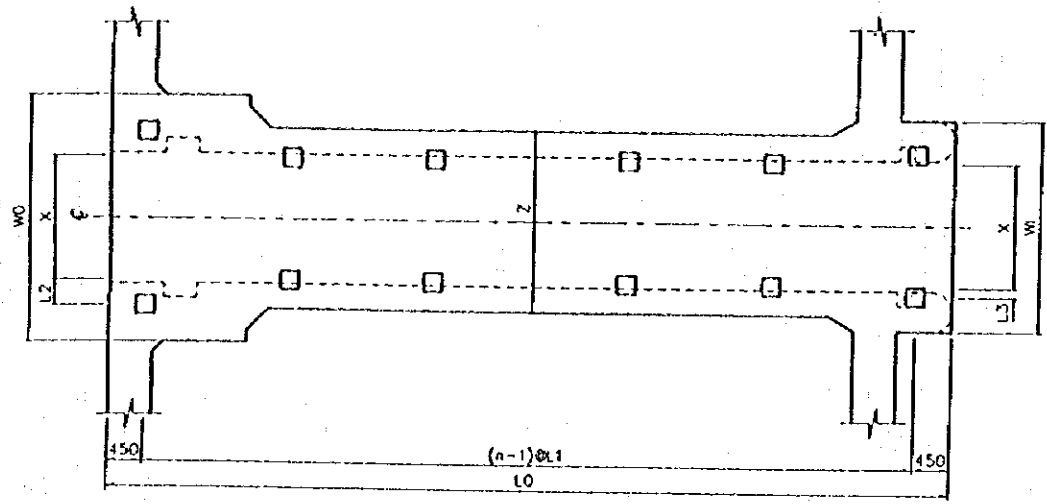
SLUICEWAYS AT CONCRETE L-TYPE WALL TYPE SITES (1 LANE)
 Ref. DWG. NO. J-30-10-113 and J-30-10-115



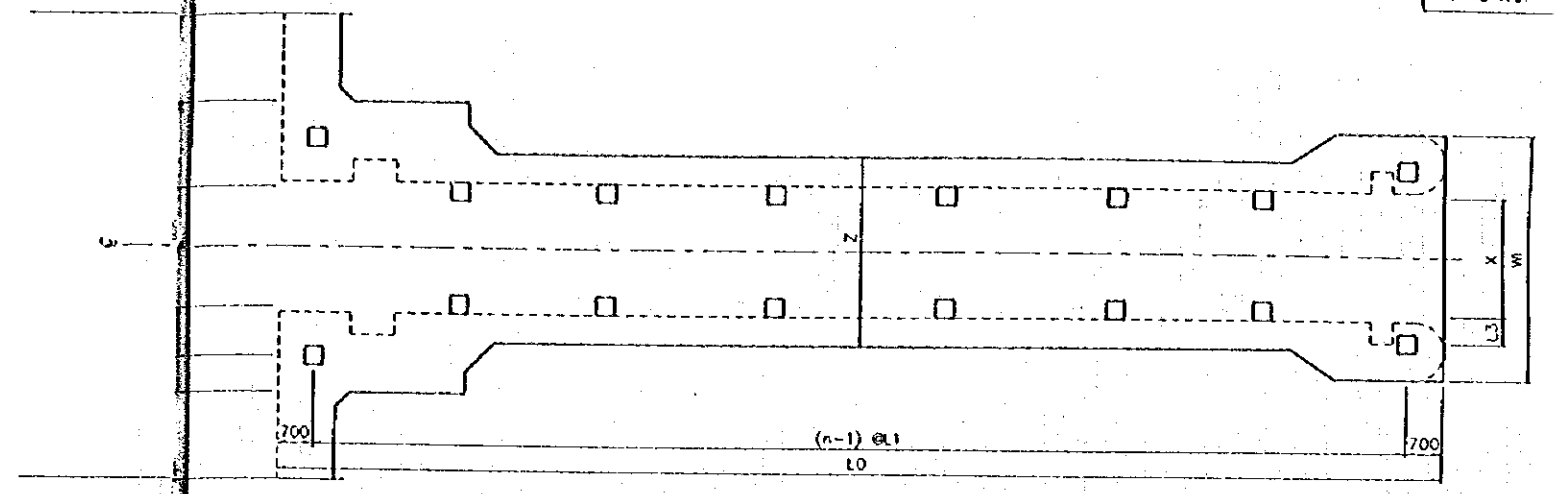
SLUICEWAYS AT CONCRETE L-TYPE WALL TYPE SITES (2 LANES)
 Ref. NO. J-30-10-116

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

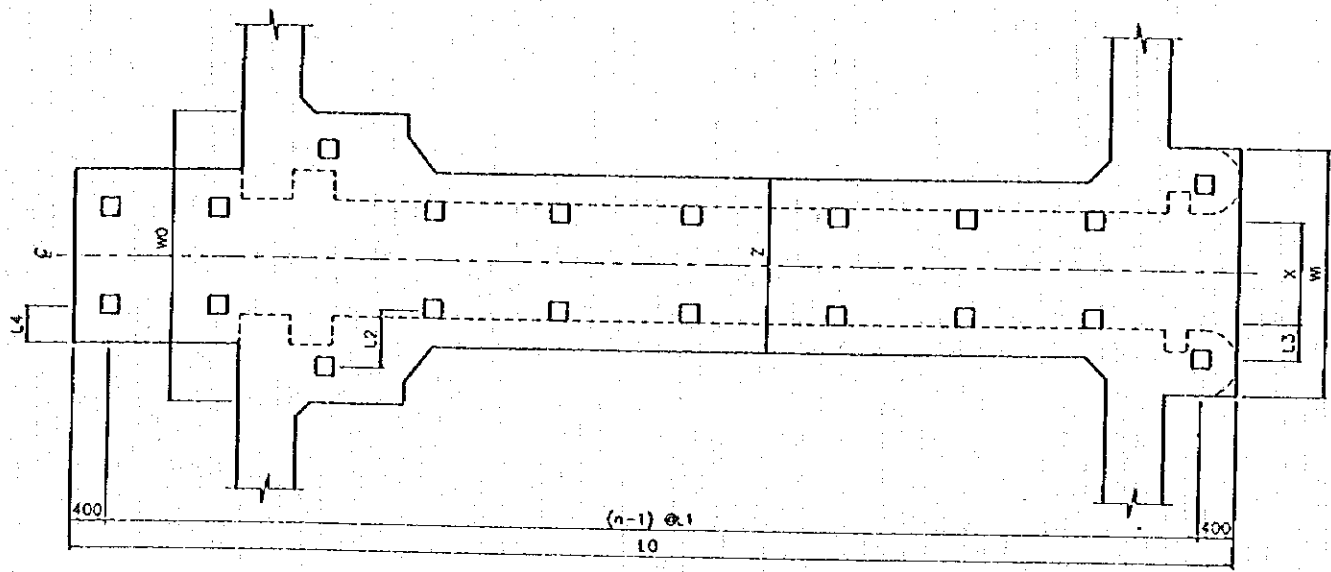
REFERENCE	NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICEWAY REINFORCING BAR ARRANGEMENT (5/5)	APPROVED
		CHECKED.....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



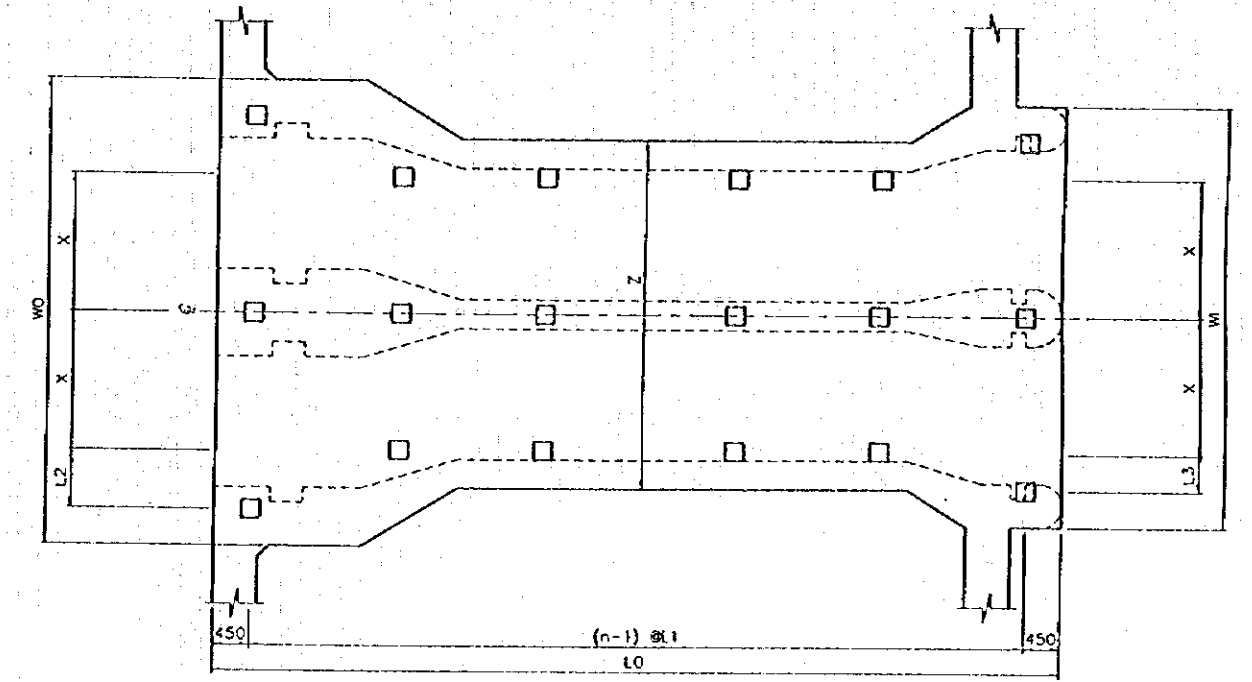
TYPE - A



TYPE - C



TYPE - B



TYPE - D

TYPE-A
(a) LEVEE EARTH TYPE SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wt (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	8.0	1.80	1.90	1.30	0.83	7.81	1.38	0.29	0.14	6
	SKM-5C	KM31+58m	250x250	8.0	1.80	2.10	1.50	0.86	7.82	1.38	0.27	0.12	6
	SKM-6L	KM46+35m	250x250	8.0	1.80	2.10	1.30	0.86	7.93	1.41	0.27	0.12	6
Right	SKM-2R	KM21+8m	250x250	7.0	2.00	2.30	1.70	1.08	8.83	1.64	0.27	0.12	4
	SKM-3R	KM27+42m	250x250	8.0	2.10	2.40	1.80	1.18	5.78	0.81	0.27	0.12	7
(2) Saluran Cengkareng drainage channel													
Left	SCW-3L	CM20+10m	250x250	8.0	1.80	2.10	1.50	0.88	7.46	0.82	0.27	0.12	9
	SCW-5L	CM30+0m	250x250	8.0	1.80	2.10	1.50	0.88	5.32	1.51	0.27	0.12	4
	SCW-6L	CM37+30m	250x250	8.0	1.90	2.20	1.60	0.88	7.58	1.34	0.27	0.12	6
	SCW-7L	CM41+0m	250x250	8.0	1.90	2.20	1.60	0.88	7.82	1.34	0.27	0.12	6
Right	SCW-4R	CM30+0m	250x250	8.0	1.80	2.10	1.30	0.88	7.52	1.33	0.27	0.12	6
	SCW-5R	CM37+0m	250x250	8.0	1.80	2.10	1.30	0.88	5.58	1.56	0.27	0.12	4
	SCW-6R	CM43+30m	250x250	8.0	1.90	2.20	1.60	0.88	5.64	1.58	0.27	0.12	4

(b) LEVEE PARAPET WALL TYPE SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wt (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	8.0	1.80	2.10	1.30	0.88	7.20	1.26	0.27	0.12	6
	SKM-7L	KM42+7m	250x250	8.0	1.50	1.80	1.10	0.63	7.20	1.26	0.24	0.09	6

TYPE-B
(a) REVETMENT TYPE I SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wt (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	8.0	1.60	1.80	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	1.80	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	0.76	9.04	1.18	0.27	0.12	0.32	8
(3) Saluran Cengkareng drainage channel													
Left	SCW-8L	CM47+34m	250x250	8.0	1.70	2.00	0.76	6.37	1.39	0.27	0.12	0.32	5
Right	SCW-7R	CM47+33m	250x250	8.0	1.60	1.80	0.63	9.37	1.22	0.28	0.14	0.28	8
(4) Gedé/Bor drainage channel													
Left	SCW-1L	CM12+0m	250x250	8.0	1.60	1.80	0.63	9.28	1.21	0.29	0.14	0.28	8

(b) REVETMENT TYPE II SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wt (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+18m	250x250	7.0	2.00	2.30	1.30	1.38	1.81	0.27	0.12	9
	SKM-2L	KM24+35m	250x250	8.0	1.90	2.20	0.88	9.41	1.72	0.27	0.12	6
Right	SKM-5R	KM45+6m	250x250	8.0	1.80	2.10	0.63	9.27	1.21	0.28	0.14	8
	SKM-6R	KM50+31m	250x250	8.0	1.60	1.80	0.63	9.39	1.23	0.28	0.14	8
	SKM-7R	KM54+26m	250x250	8.0	1.80	2.10	0.63	8.88	1.36	0.27	0.12	7
(2) Gedé/Bor drainage channel												
Left	SCW-5L	CM15+24m	250x250	8.0	1.60	1.80	0.63	11.34	1.17	0.28	0.14	10

TYPE-C
(a) CONCRETE L-TYPE WALL SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	Wt (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos./line	
(1) Tanjung drainage channel													
Right	SKM-3R	TM35+0m	250x250	8.0	1.80	1.90	1.20	0.63	7.84	0.89	0.29	0.14	8

(b) CONCRETE L-TYPE WALL SITE

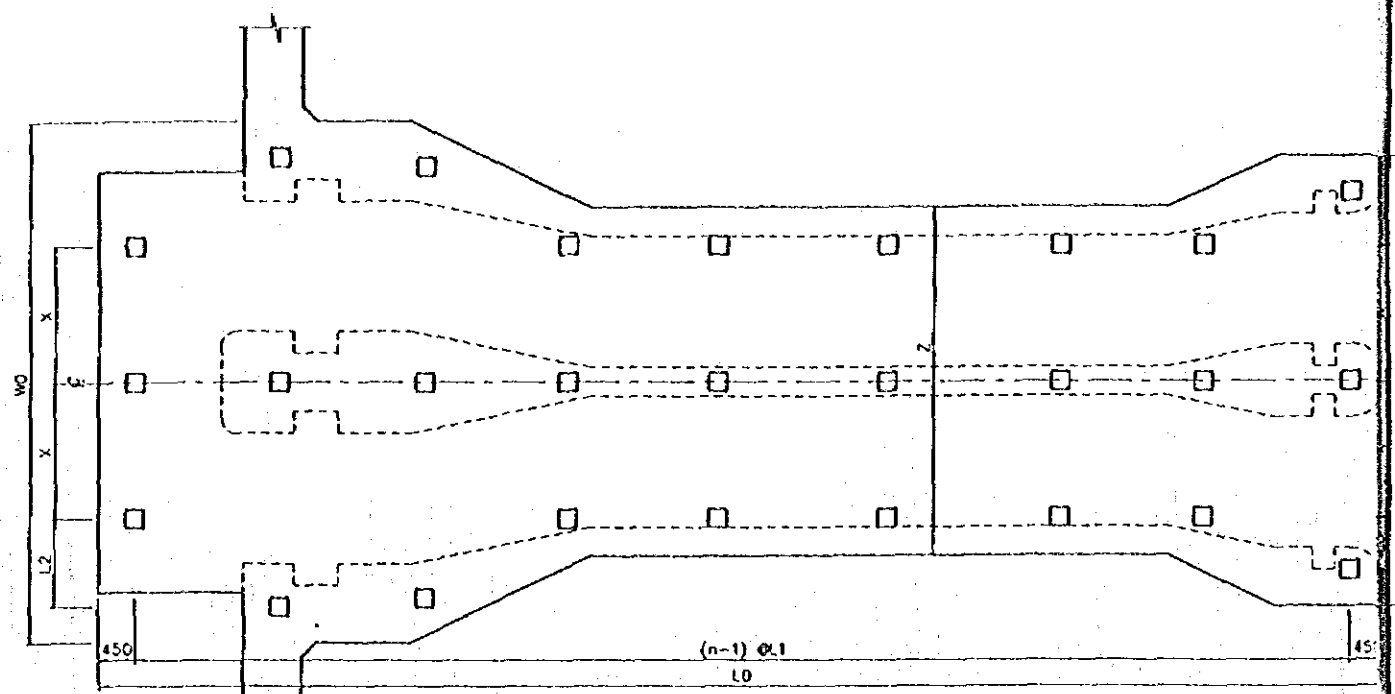
Left/Right	No.	Location	RC Precast Pile Size L(m)	Wt (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos./line	
(1) Tanjung drainage channel													
Right	SKM-2R	TM30+3m	250x250	8.0	1.2	1.3	0.7	0.00	8.83	0.91	0.30	0.25	7

TYPE-D
LEVEE EARTH TYPE SITE

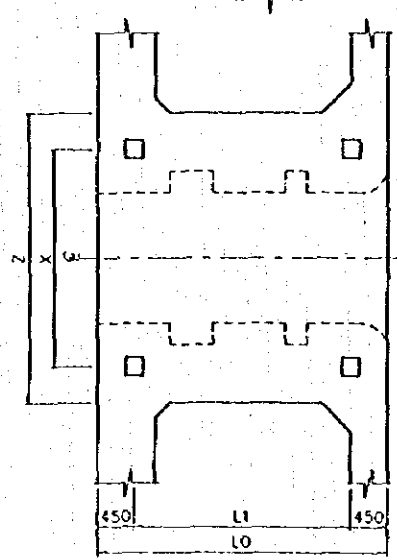
Left/Right	No.	Location	RC Precast Pile Size L(m)	Wt (t)	W0 (m)	Z (m)	X (m)	L0 (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos./line	
(1) Kamal drainage channel (Main channel)													
Right	SKM-1R	KM17+20m	250x250	9.0	3.60	4.10	2.95	1.18	5.86	1.24	0.35	0.30	5
(2) Saluran Cengkareng drainage channel													
Left	SCW-2L	CM16+12m	250x250	7.0	3.80	4.30	3.30	1.33	7.44	1.83	0.47	0.22	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.

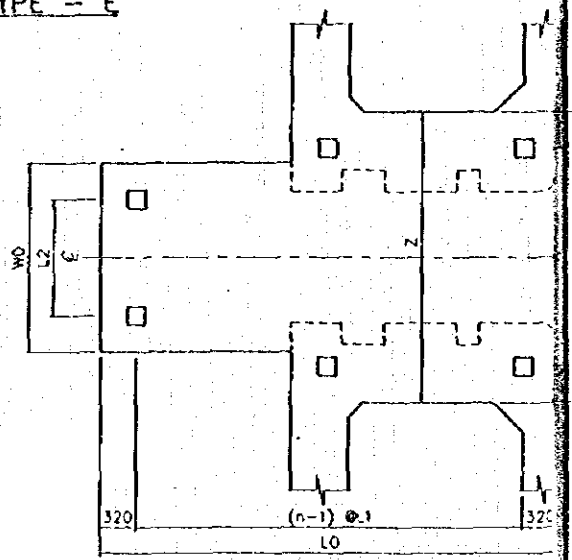
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE FACILITIES, SLUICEWAY PILE ARRANGEMENT (1/2)	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-30-10-401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



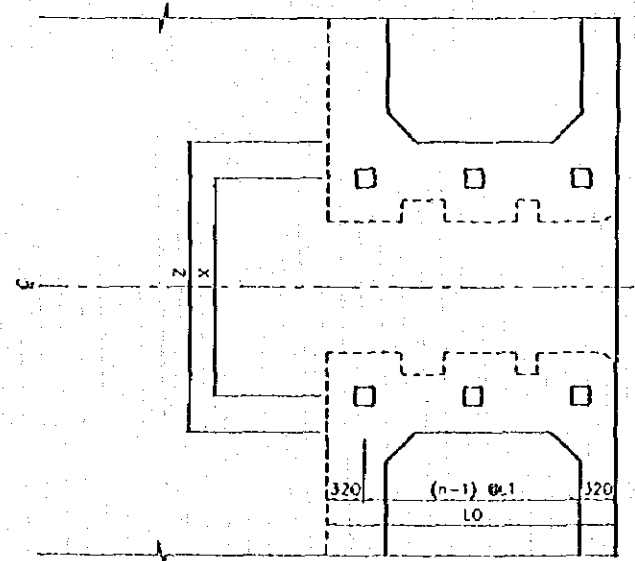
TYPE - E



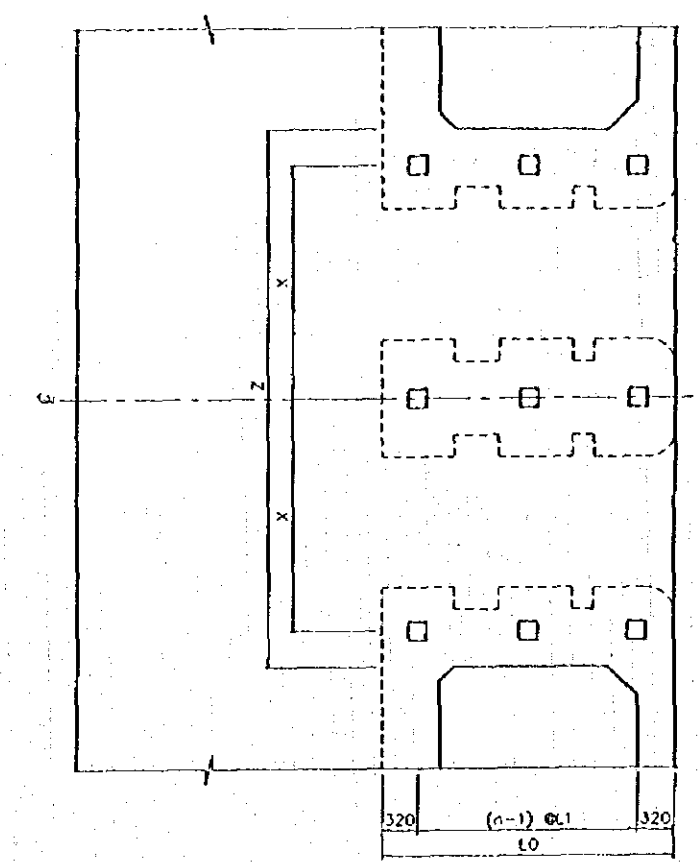
TYPE - F



TYPE - G



TYPE - H



TYPE - I

TYPE-E

REVETMENT TYPE II SITE

Left/Right	No.	Location	RC Precast Pile Size L(m)	H (t)	WO (m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	L3 (m)	Pile nos/line	
(1) Cede/Bor drainage channel													
Left	SGM-2L	CW14-5m	250x250	6.0	3.40	5.90	2.75	1.08	10.77	1.23	0.55	0.20	9

TYPE-F

LEEVE 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) Soluran Cengkoreng drainage channel										
Left	SCM-4L	CW27-21m	250x250	7.0	2.20	1.56	2.00	1.10	-	2
Right	SCM-2R	CW16-4m	250x250	7.0	2.30	1.68	2.00	1.10	-	2
Right	SCM-3R	CW26-11m	250x250	7.0	2.10	1.46	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	SKC-1L	KE01+5m	250x250	6.0	1.20	1.90	1.28	3.80	0.93	0.63	4
Right	SKC-1R	KE21+5m	250x250	7.0	1.20	1.90	1.28	3.59	0.98	0.63	4
(2) Tanjung drainage channel											
Left	STM-1L	TM25-13m	250x250	8.0	1.20	1.90	1.28	3.79	1.05	0.63	4
Right	STM-1R	TM25-13m	250x250	8.0	1.20	1.90	1.28	3.79	1.05	0.63	4
(3) Soluran Cengkoreng drainage channel											
Right	SCM-1R	CW15-10m	250x250	7.0	1.60	2.30	1.68	1.43	1.26	0.98	4
(4) Cede/Bor drainage channel											
Right	SCM-1R	CW04+44m	250x250	8.0	1.20	1.90	1.28	3.98	1.11	0.63	4
Right	SCM-2R	CW12+0m	250x250	8.0	1.20	1.90	1.28	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	SKM-3L	KW26+2m	250x250	9.0	1.90	2.80	1.96	4.09	1.15	1.28	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	SKC-2L	KE12-32m	250x250	7.0	1.10	1.30	0.66	2.68	1.01	0.63	3
Right	SKC-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	SKC-SL	KE31-43m	250x250	5.0	1.30	0.66	1.50	0.88	-	2
Right	SKC-JR	KE31+0m	250x250	5.0	1.30	0.66	1.50	0.88	-	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	SKU-1R	KW34+0m	250x250	8.0	2.20	1.38	2.00	0.68	-	3
(2) Soluran Cengkoreng drainage channel										
Left	SCM-1L	CW05-3m	250x250	6.0	2.40	1.76	2.00	1.35	-	2

(c) CONCRETE L-TYPE WALL SITE

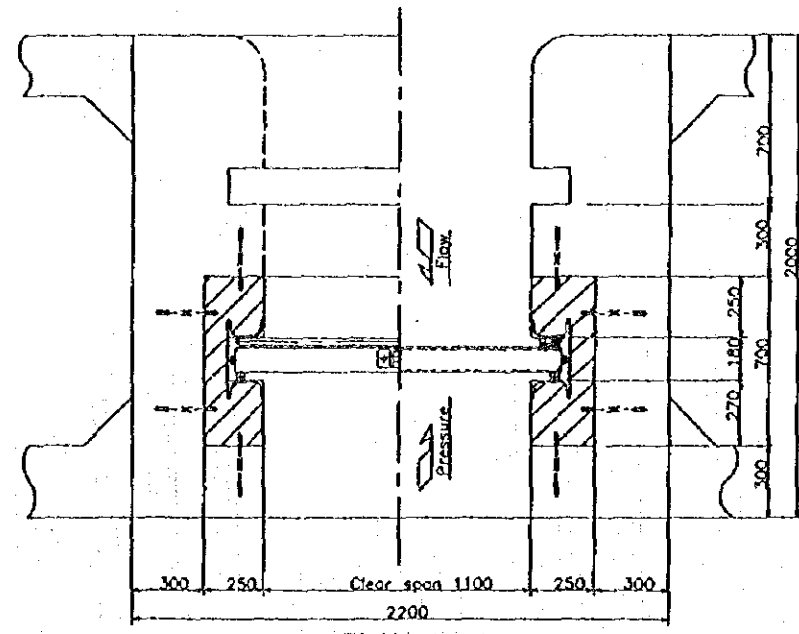
Left/Right	No.	Location	RC Precast Pile Size L(m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Tanjung drainage channel										
Left	STM-3L	TM30+18m	250x250	8.0	1.90	1.28	2.00	0.68	-	3
Left	STM-4L	TM33+13m	250x250	8.0	2.10	1.46	2.00	0.68	-	3

TYPE-I

CONCRETE L-TYPE WALL SITE

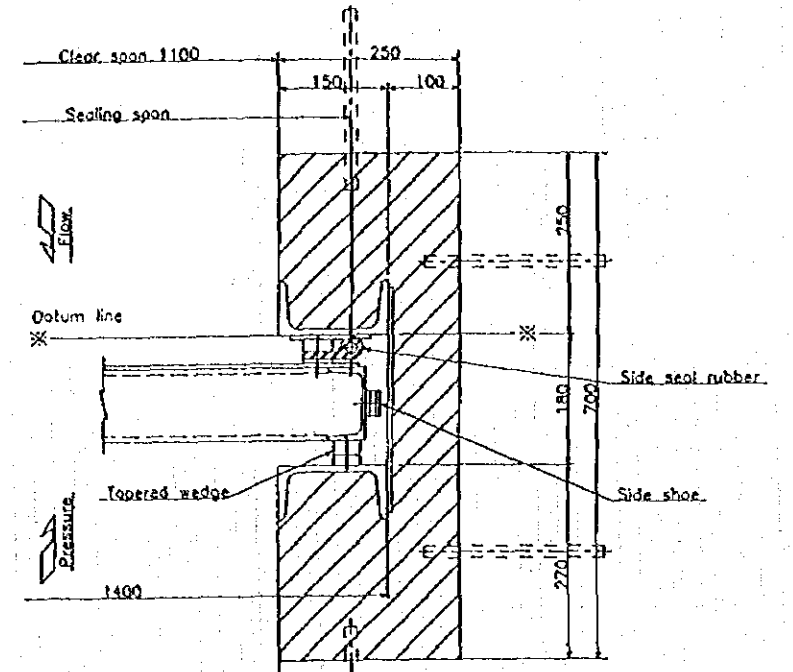
Left/Right	No.	Location	RC Precast Pile Size L(m)	Z (m)	X (m)	LO (m)	L1 (m)	L2 (m)	Pile nos/line	
(1) Tanjung drainage channel										
Left	STM-2L	TM30-10m	250x250	8.0	1.90	1.28	2.00	0.68	-	3

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 NO.	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA			

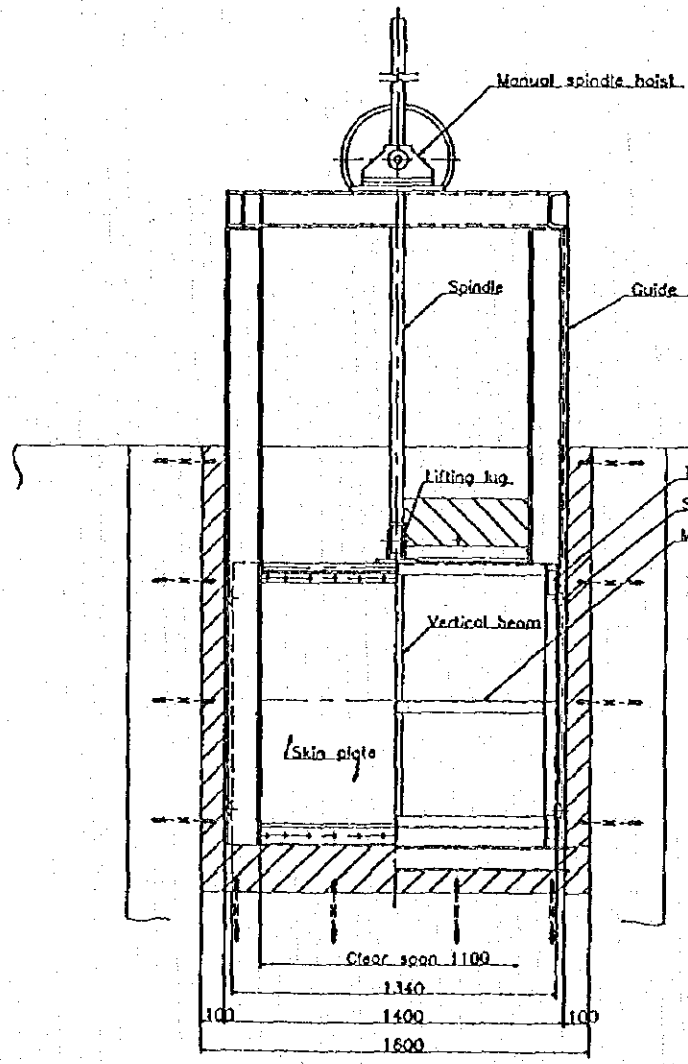


PLAN SCALE A

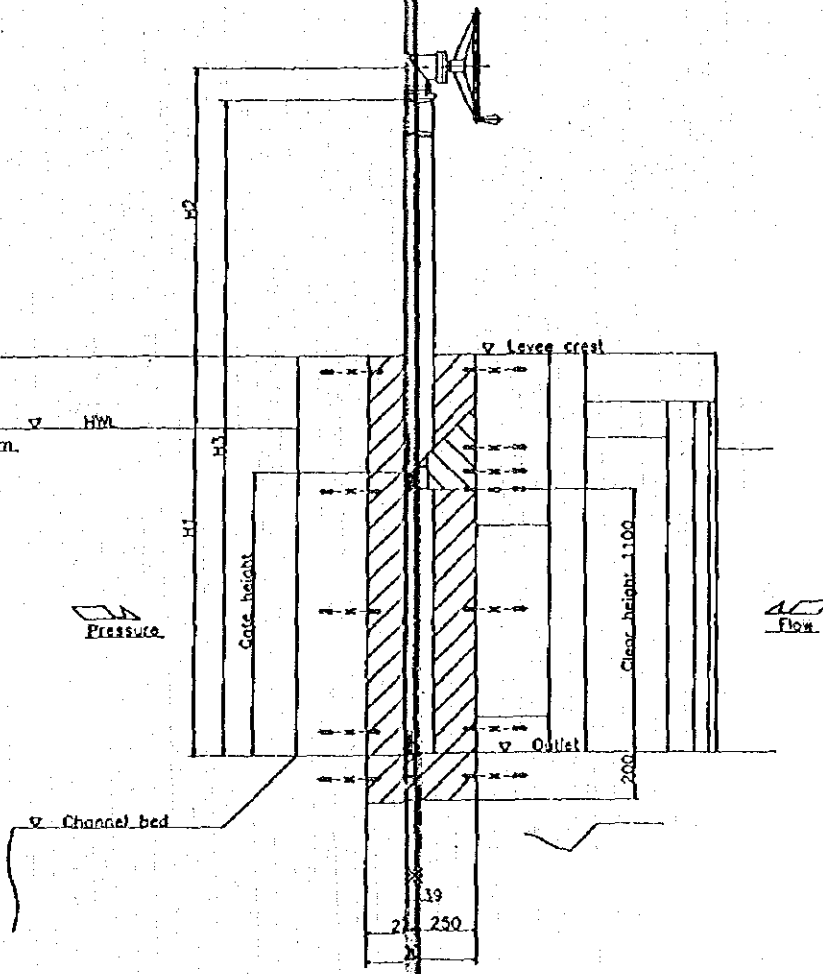
Conduit		No.	Levee type	Outlet	EL. (m)			H1 (m)	H2 (m)	H3 (m)
Width (m)	Height (m)				HWL	Levee crest	Outlet			
1.1	1.1	SNM-1R	C(O)	0.6	1.973	2.273	0.608	1.655	1.197	2.730



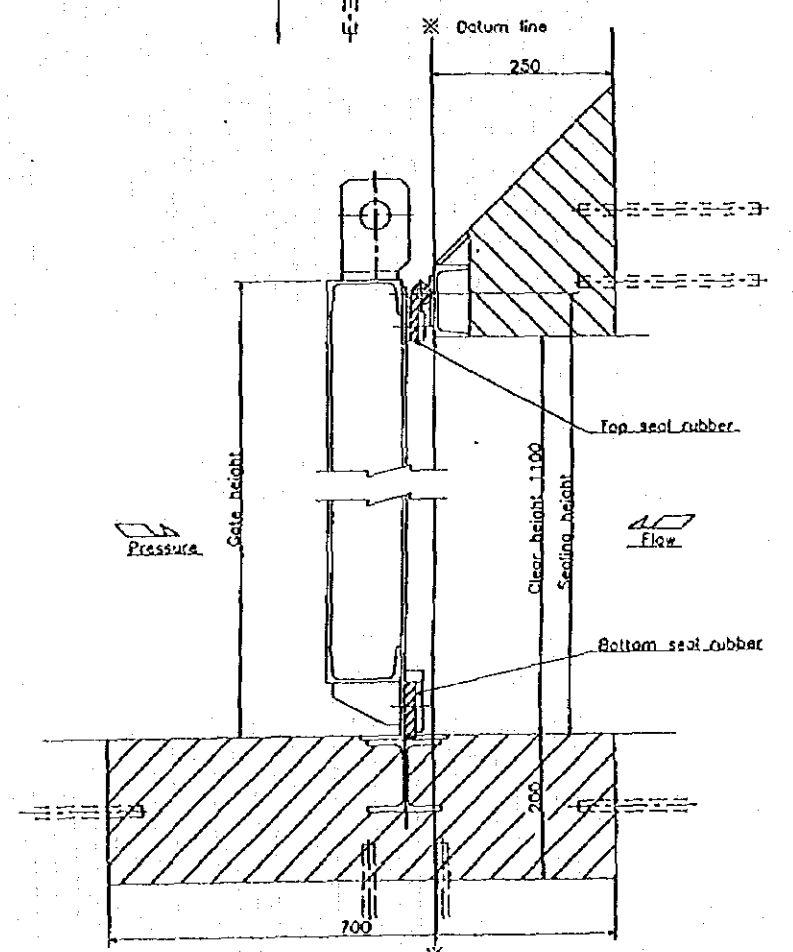
DETAIL OF SIDE SLOT SCALE B



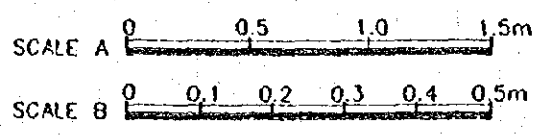
ELEVATION SCALE A



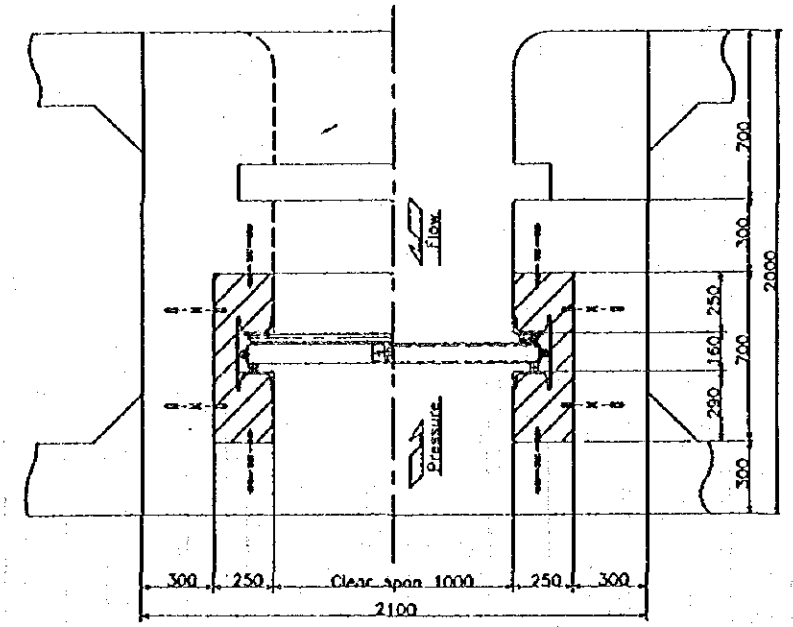
ELEVATION SCALE A



DETAIL OF TOP AND BOTTOM SLOT SCALE B

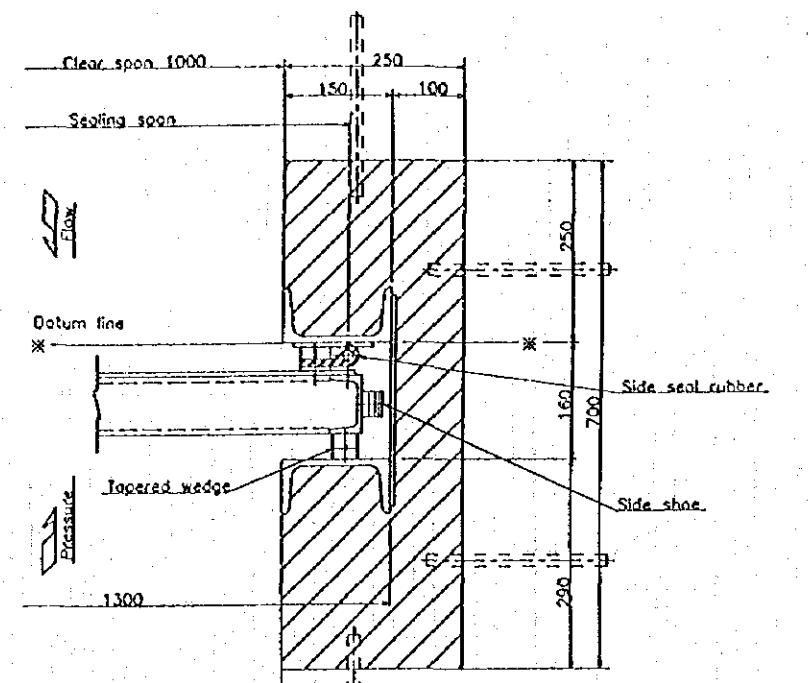


REFERENCE	PREPARED	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE FACILITIES SLIDE GATE, GENERAL ARRANGEMENT 1.1mx1.1m Levee Type C(O)	APPROVED
	CHECKED		DWG NO.	DATE
	SUBMITTED		J-30-20-010	
	DATE			

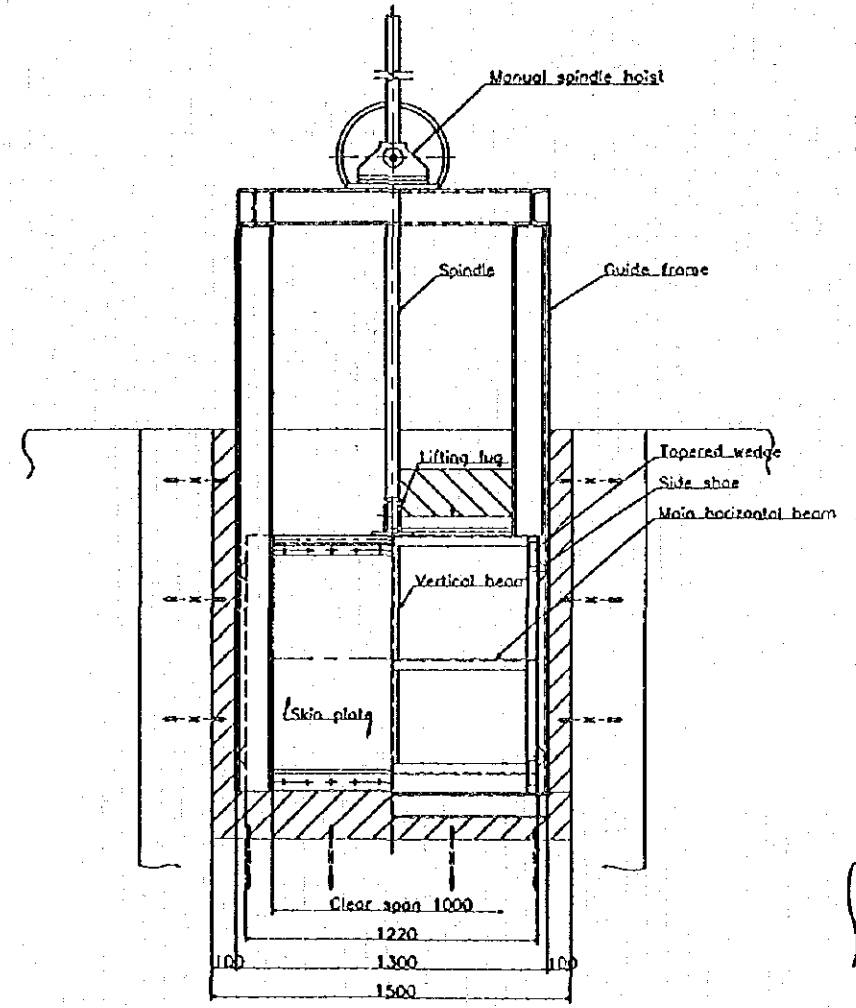


PLAN SCALE A

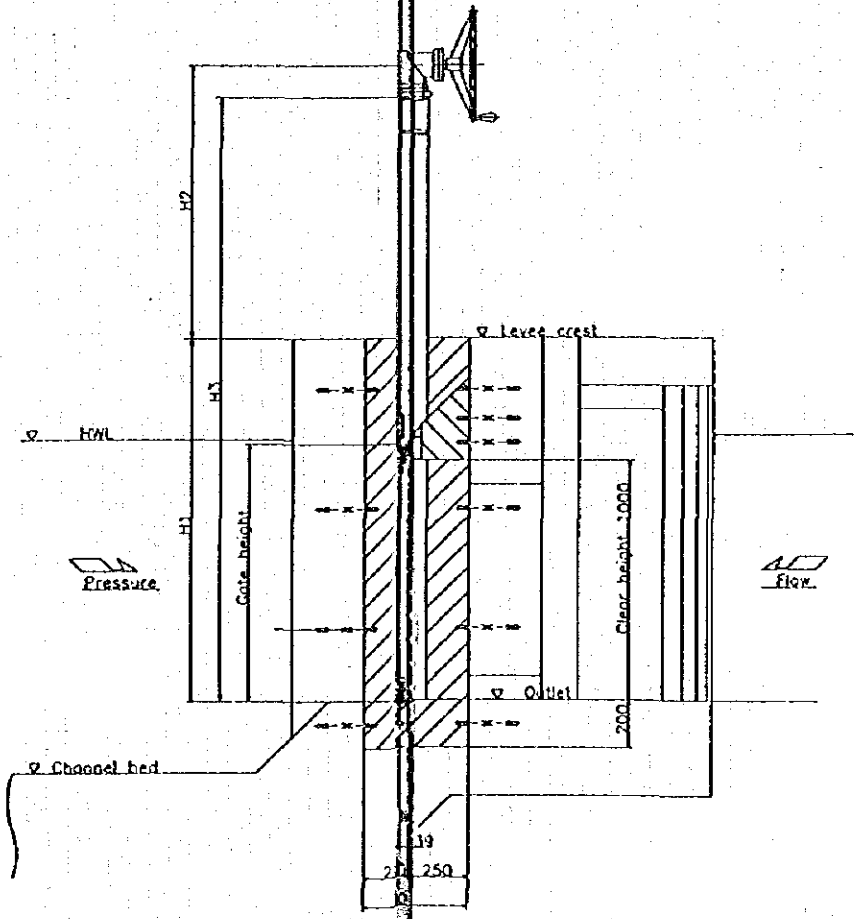
Conduit		No.	Levee type	Quantity	EL (m)			H1 (m)	H2 (m)	H3 (m)
Width (m)	Height (m)				HWL	Levee crest	Outlet			
1.0	1.0	STM-2L	C(L)	2	0.496	0.922	-0.593	1.515	1.137	2.520
		STM-4L	C(L)	1	0.544	0.965	-0.561	1.526	1.126	2.520



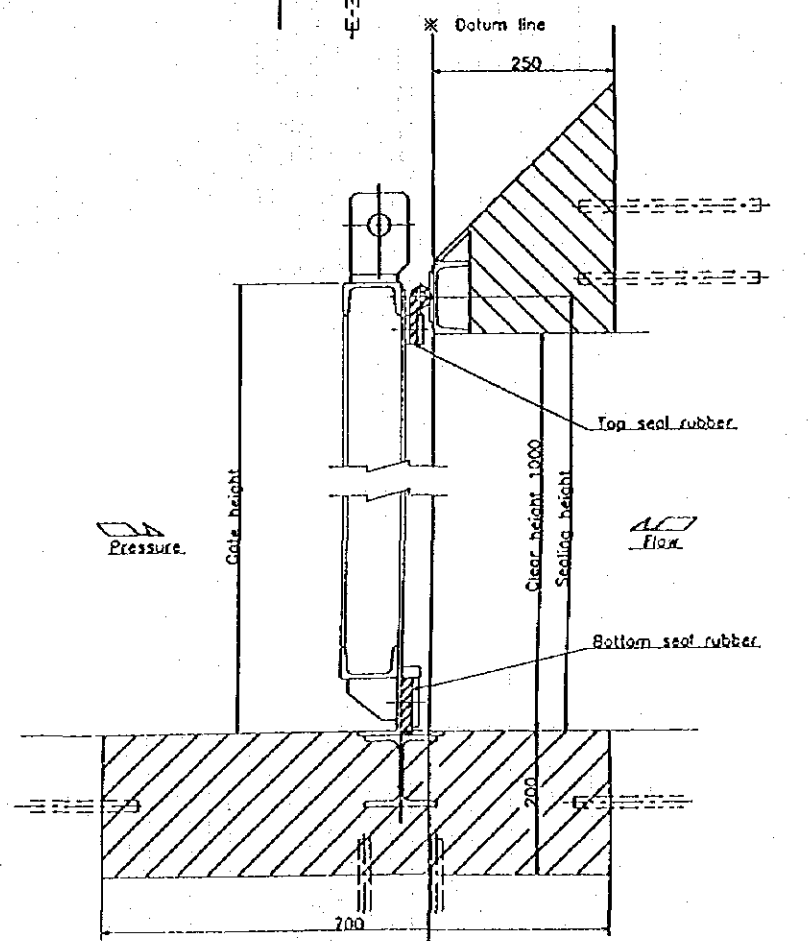
DETAIL OF SIDE SLOT SCALE B



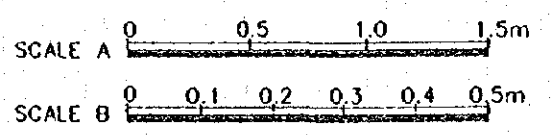
ELEVATION SCALE A



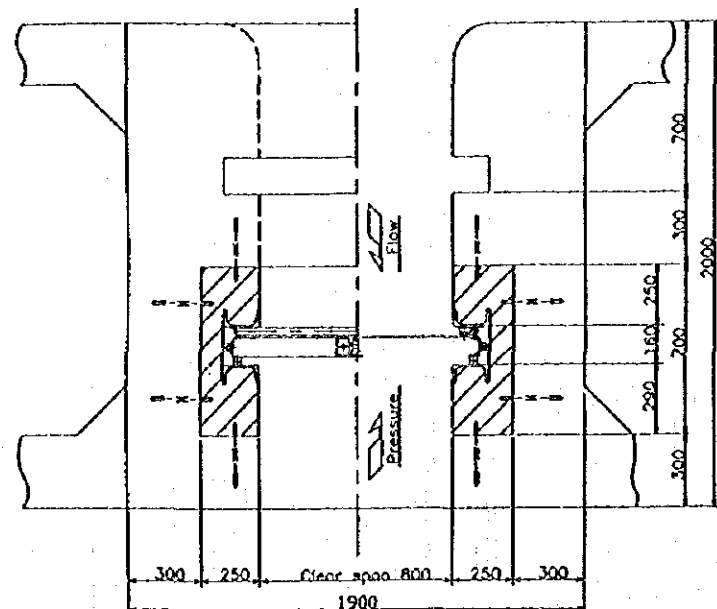
ELEVATION SCALE A



DETAIL OF TOP AND BOTTOM SLOT SCALE B

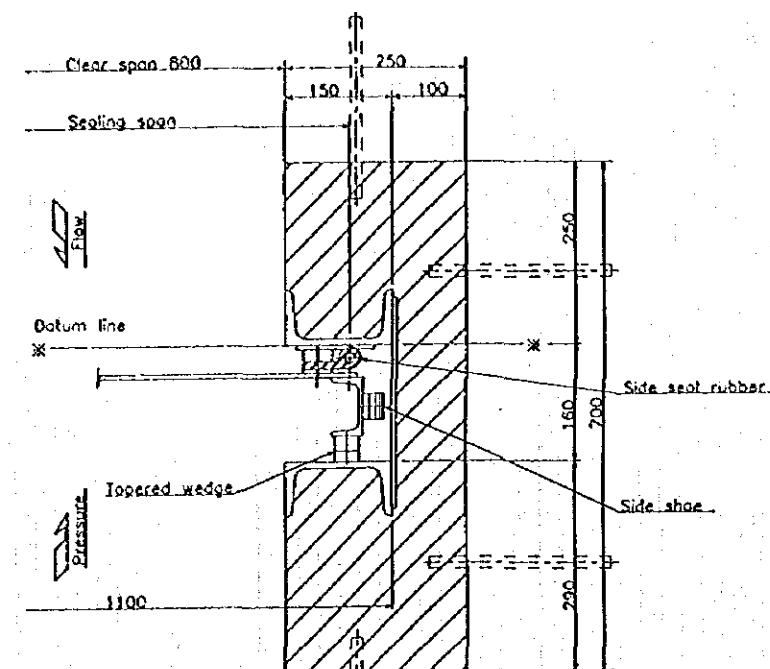


REFERENCE	PREPARED.....	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
	CHECKED.....		DRAINAGE FACILITIES	
	SUBMITTED.....		SLIDE GATE, GENERAL ARRANGEMENT	
	DATE.....		1.0mx1.0m Levee Type C(L)	
		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO.	DATE
			J-30-20-014	

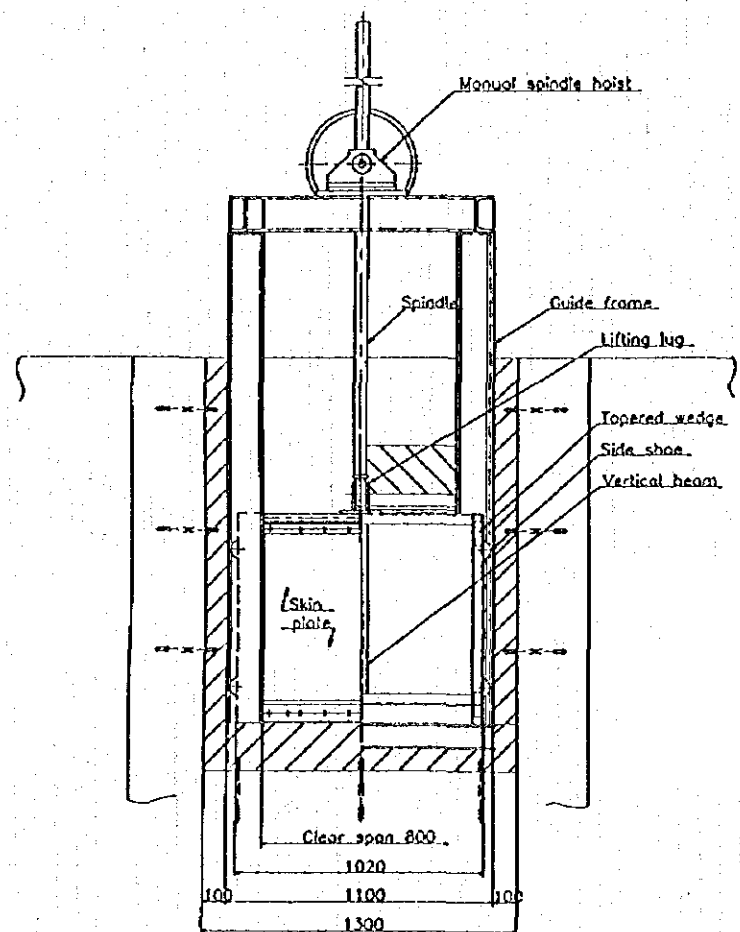


PLAN SCALE A

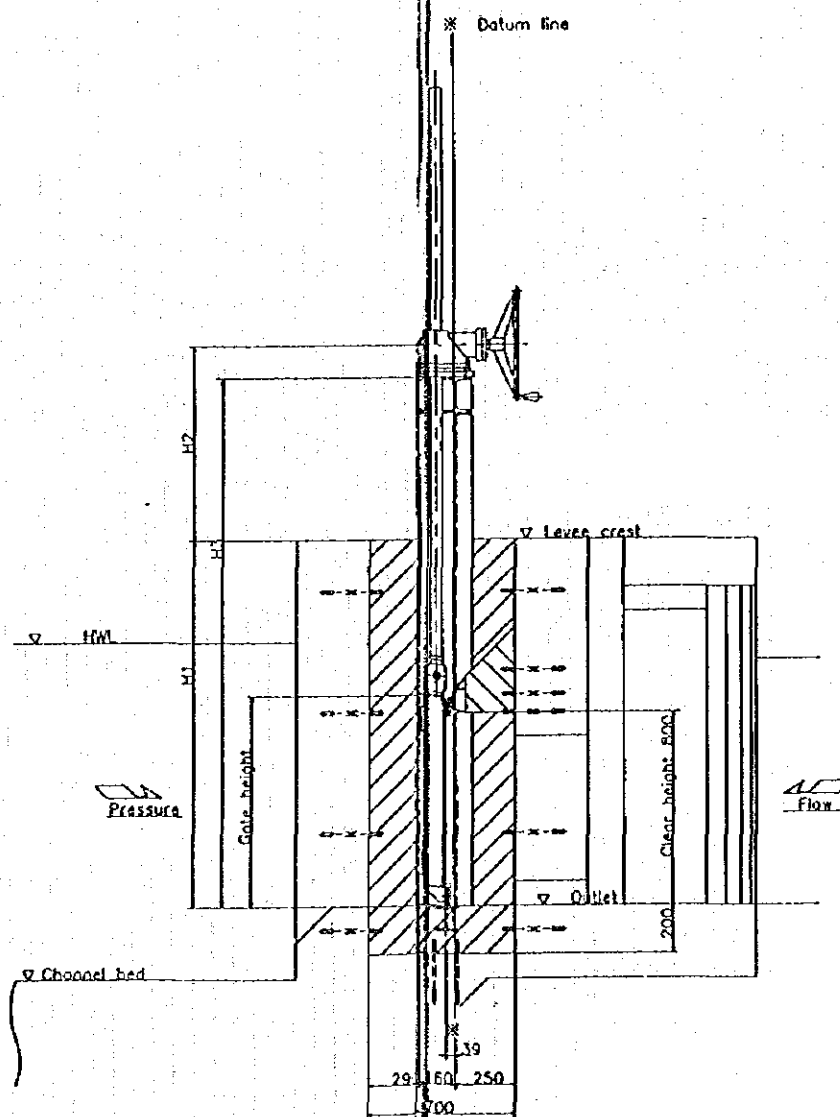
Conduit	Width (m)	Height (m)	No.	Levee type	Q ₁	EL (m)			H1 (m)	H2 (m)	H3 (m)	
						Channel bed	HWL	Levee crest				
08	08	08	STM-3L	C(L)	1	-0.888	0.504	0.929	-0.588	1.517	0.805	2.190
						-0.817	0.608	1.024	-0.517	1.541	0.801	2.210



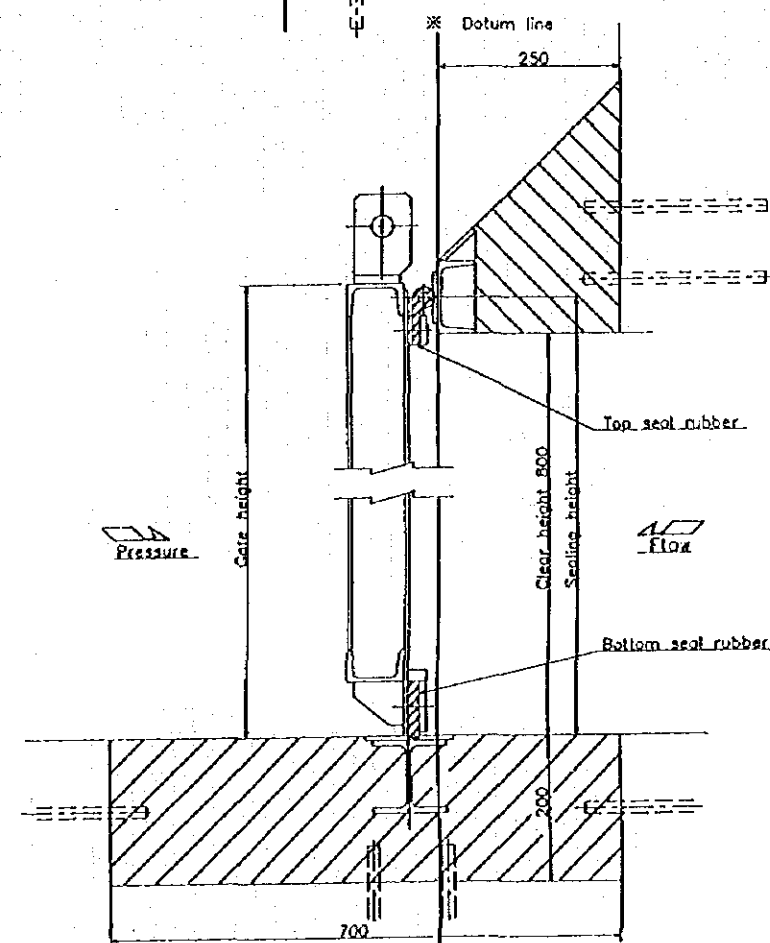
DETAIL OF SIDE SLOT SCALE B



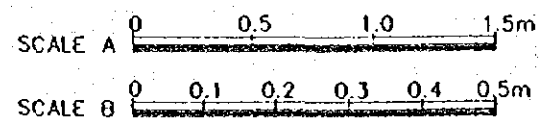
ELEVATION SCALE A



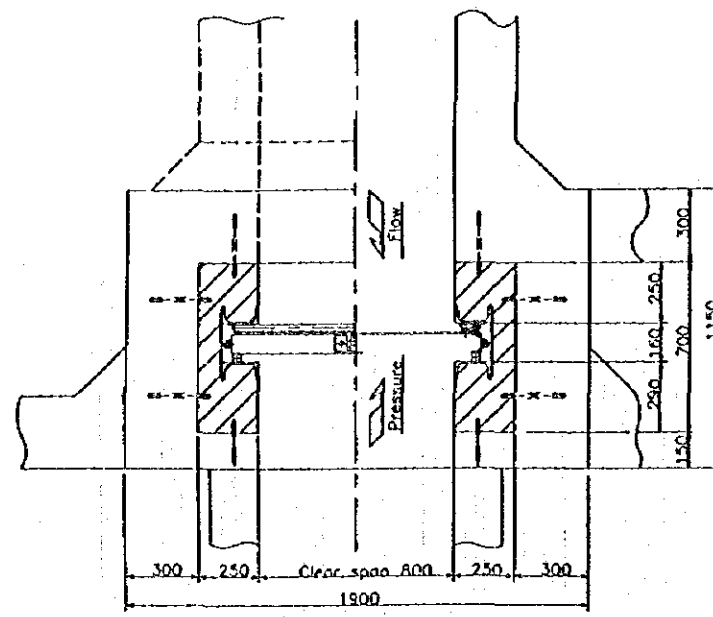
PROFILE SCALE A



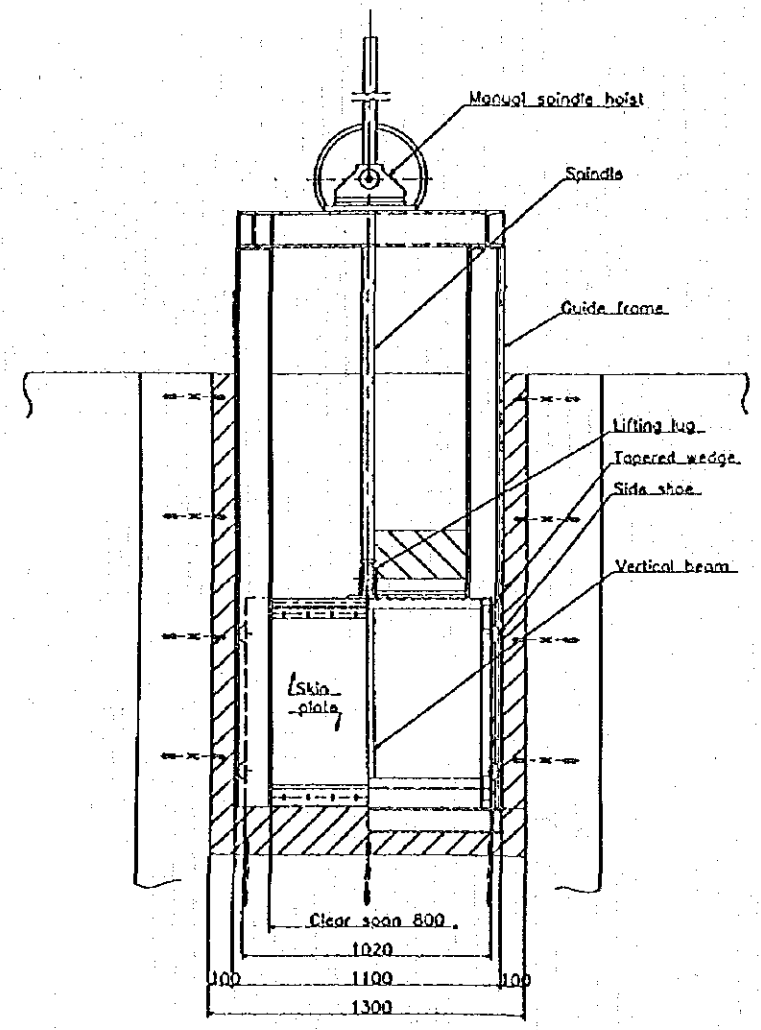
DETAIL OF TOP AND BOTTOM SLOT SCALE B



PREPARED.....	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED	
CHECKED.....		DRAINAGE FACILITIES SLUICE GATE, GENERAL ARRANGEMENT 0.8mx0.8m Levee Type C(L)		
SUBMITTED.....		DWG NO.		DATE
DATE.....		J-30-20-018		
REFERENCE	C.D. NO.	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA		

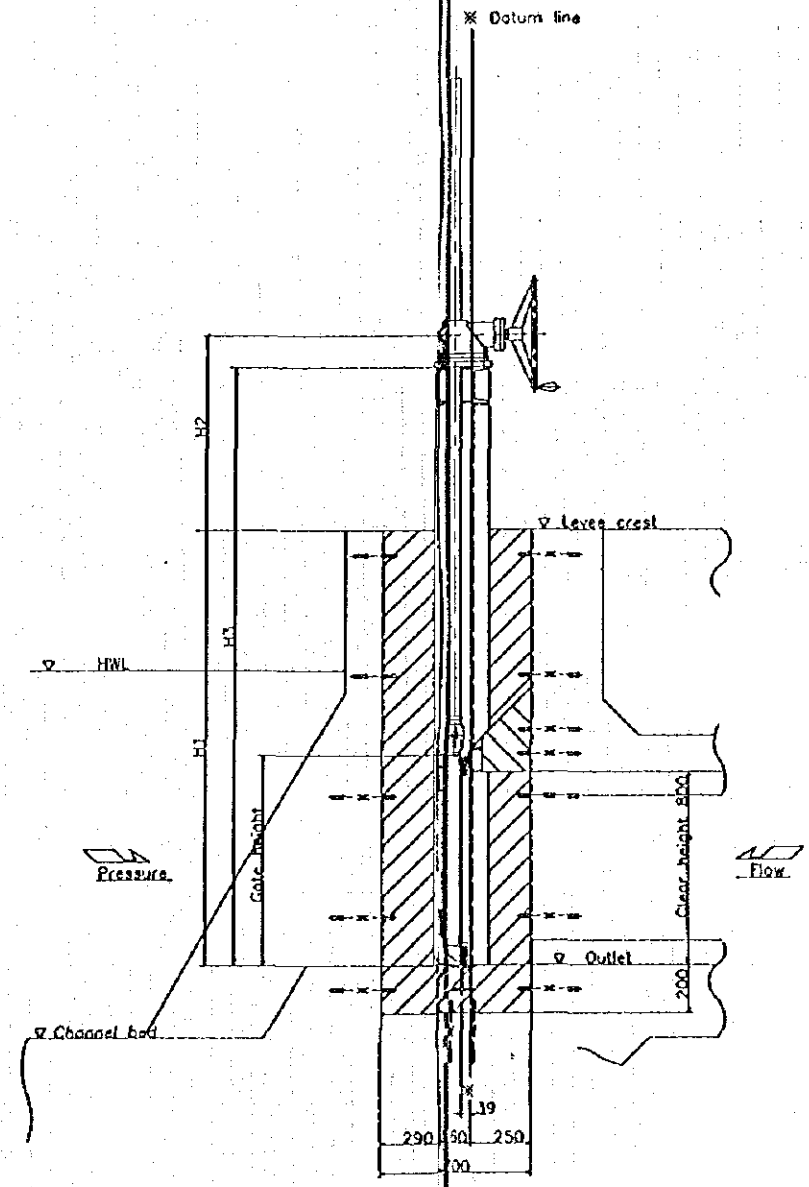


PLAN SCALE A

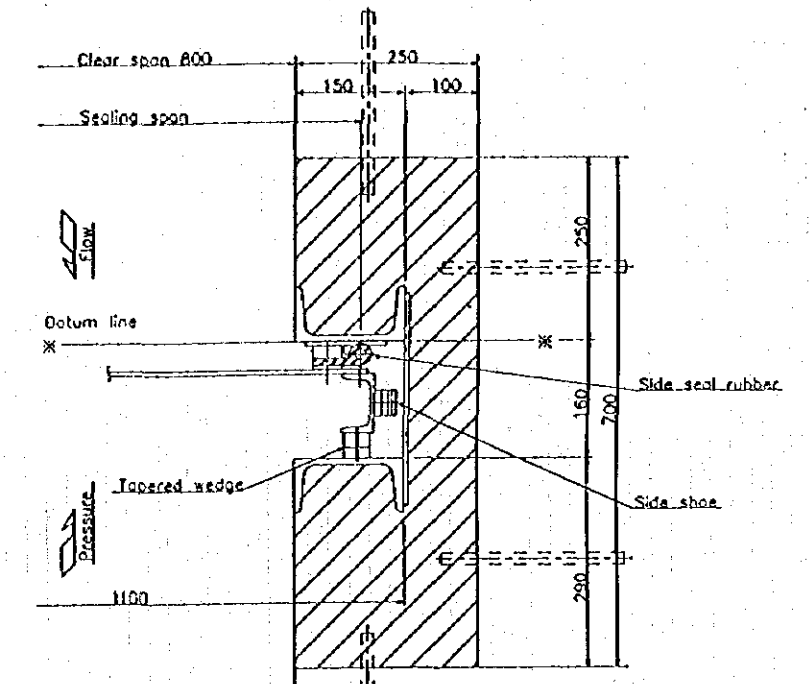


ELEVATION SCALE A

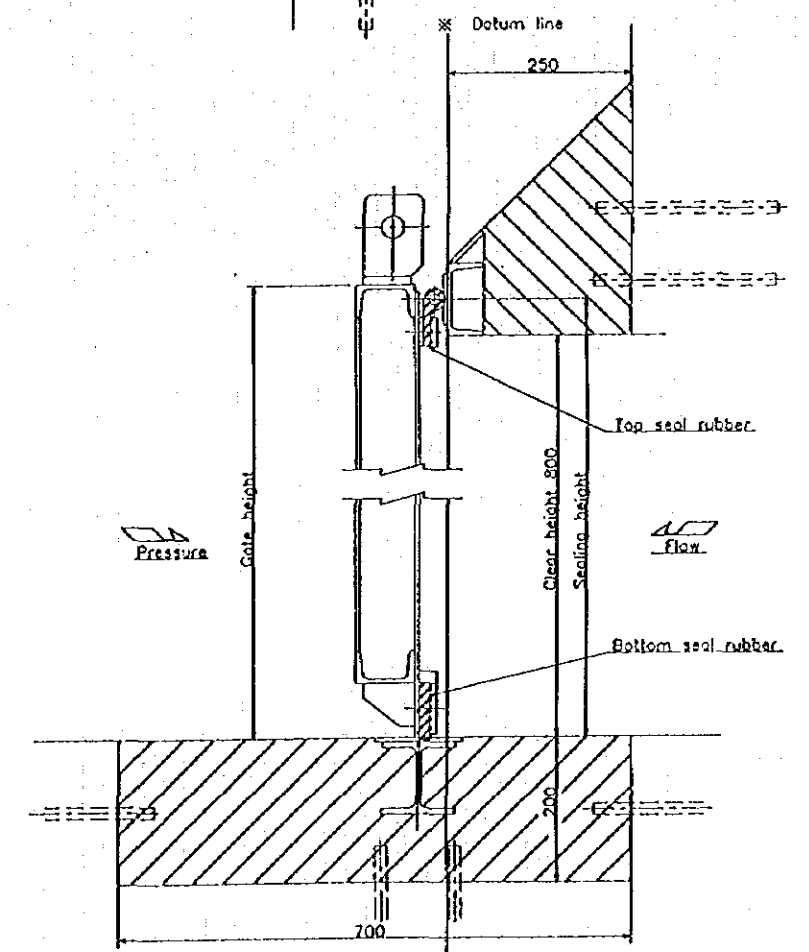
Conduit		No.	Levee type	Q ²	EL (m)				H1 (m)	H2 (m)	H3 (m)
Width (m)	Height (m)				Channel bed	HWL	Levee crest	Outlet			
0.8	0.8	SKM-4R	R(I)	1	-0.365	1.158	1.739	-0.065	1.804	0.808	2.480
		SKE-4L	R(I)	1	1.152	2.323	2.641	1.452	1.189	1.193	2.120
		SCM-7R	R(I)	1	0.553	2.257	2.692	0.853	1.839	0.807	2.510
		SGM-1L	R(I)	1	1.389	2.930	3.343	1.689	1.654	0.808	2.330
		SKM-5R	R(II)	1	-0.199	1.280	1.868	0.101	1.767	0.805	2.440
		SKM-6R	R(II)	1	0.025	1.455	2.039	0.325	1.714	0.818	2.400
		SKE-1L	R(II)	1	0.223	1.425	1.970	0.523	1.447	0.805	2.120
		SKE-1R	R(II)	1	1.035	2.225	2.538	1.335	1.203	0.809	1.880
		STM-1L	R(II)	1	-0.907	0.478	0.903	-0.607	1.510	0.802	2.180
		STM-1R	R(II)	1	-0.907	0.478	0.903	-0.607	1.510	0.802	2.180
		SCM-3L	R(II)	1	1.583	3.115	3.519	1.883	1.638	0.806	2.310
		SGM-1R	R(II)	1	1.032	2.609	3.019	1.532	1.487	0.805	2.160
		SGM-2R	R(II)	1	1.389	2.930	3.343	1.689	1.654	0.808	2.330



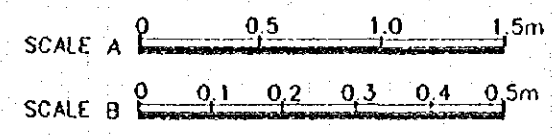
PROFILE SCALE A



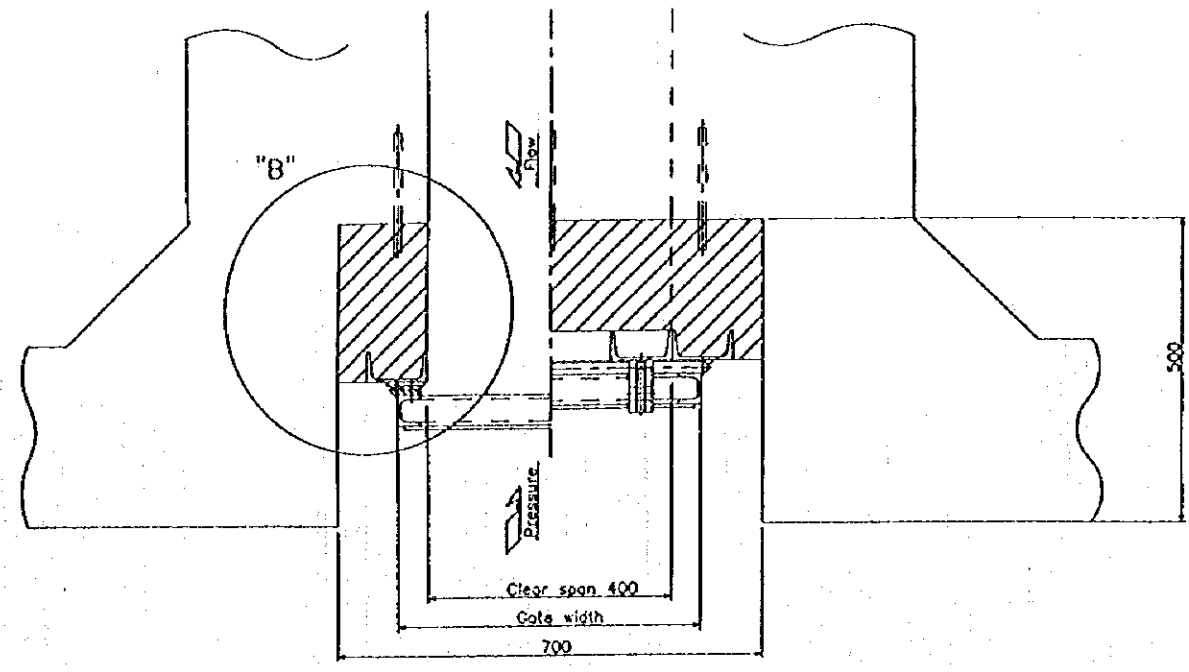
DETAIL OF SIDE SLOT SCALE B



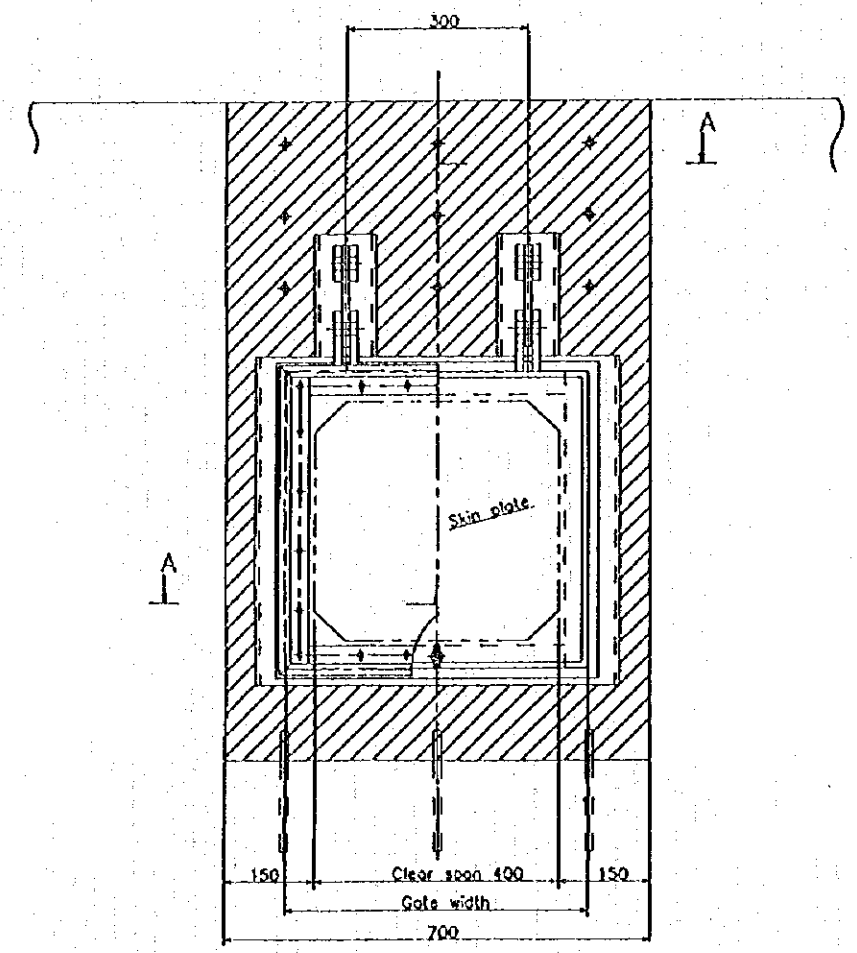
DETAIL OF TOP AND BOTTOM SLOT SCALE B



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 0.8mx0.8m Levee Type R(I),R(II)	APPROVED
CHECKED.....		OWG NO.	DATE
SUBMITTED.....		J-30-20-019	
DATE.....			
REFERENCE	DY. NO.		

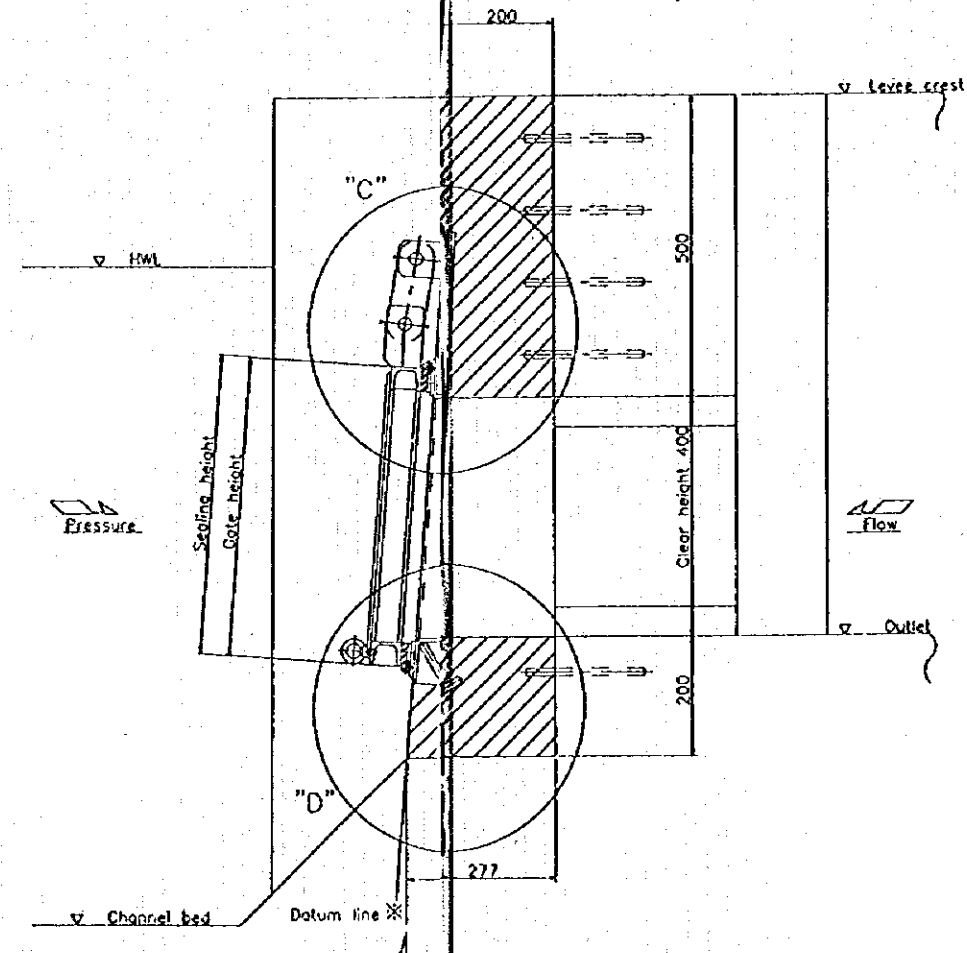


SECTION A-A SCALE A

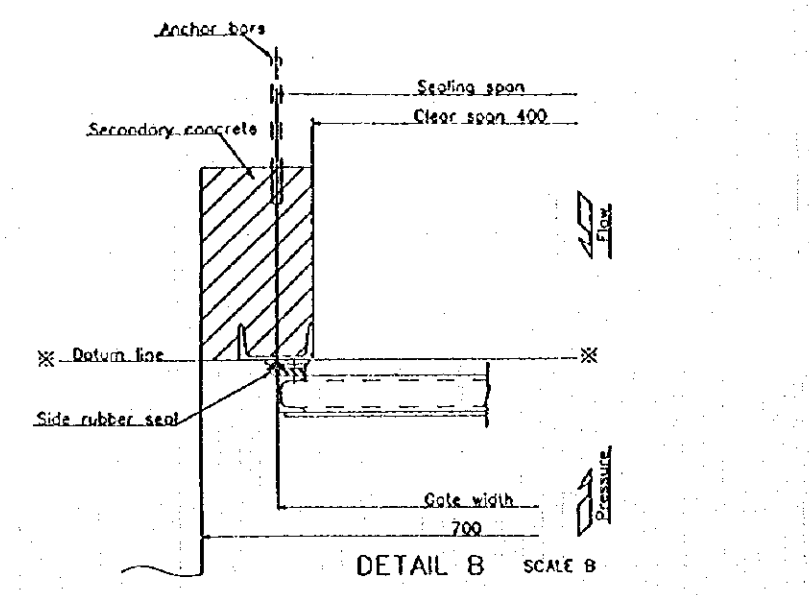


ELEVATION SCALE A

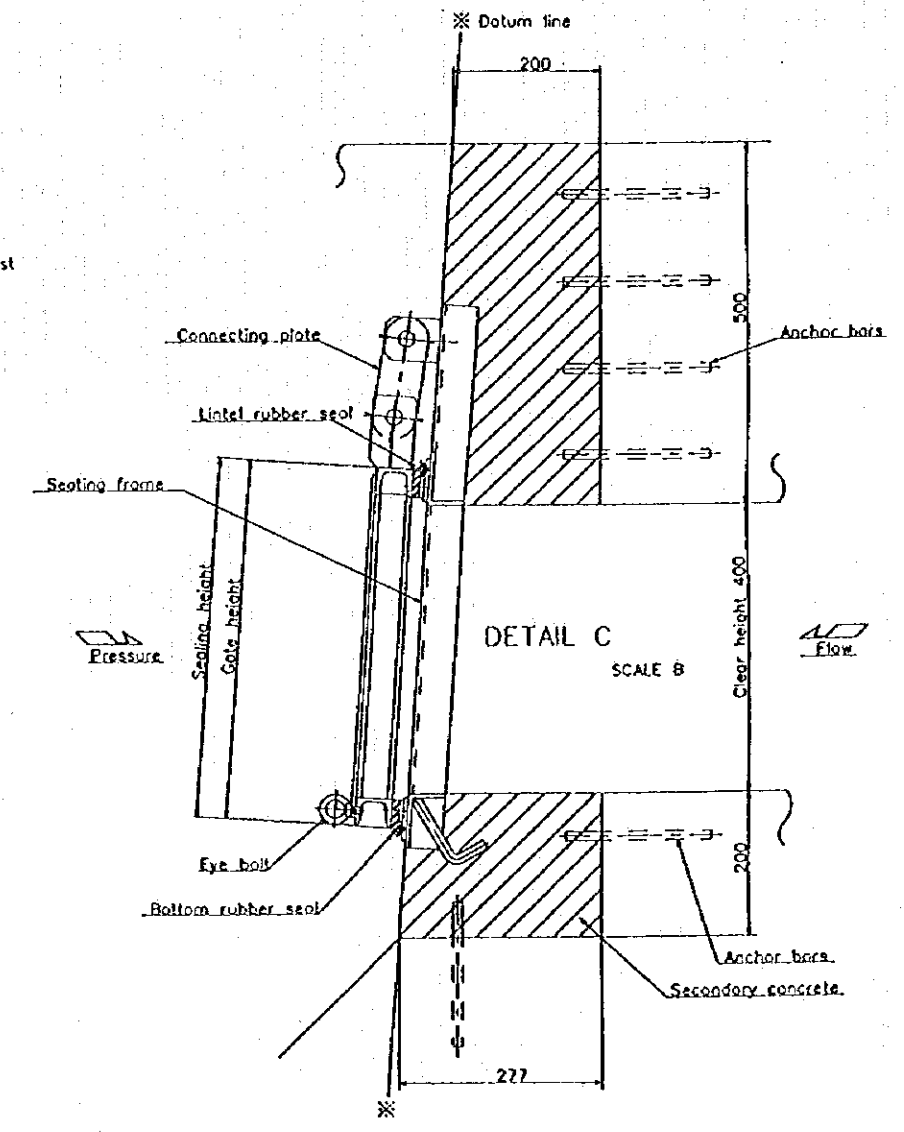
No.	Height (m)	No.	Level type	Q'ty	EL (m)		
					HWL	Level crest	Outlet
C	0.4	SKE-5L	C(D)	1	2.645	2.925	2.025
		SKE-3R	C(D)	1	2.649	2.925	2.025
		STM-2R	C(L)	1	0.500	0.926	-0.290



PROFILE SCALE A

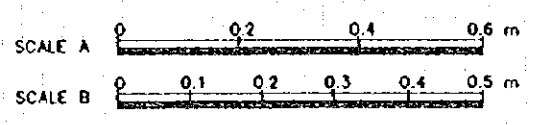


DETAIL B SCALE B



DETAIL C SCALE B

DETAIL D SCALE B

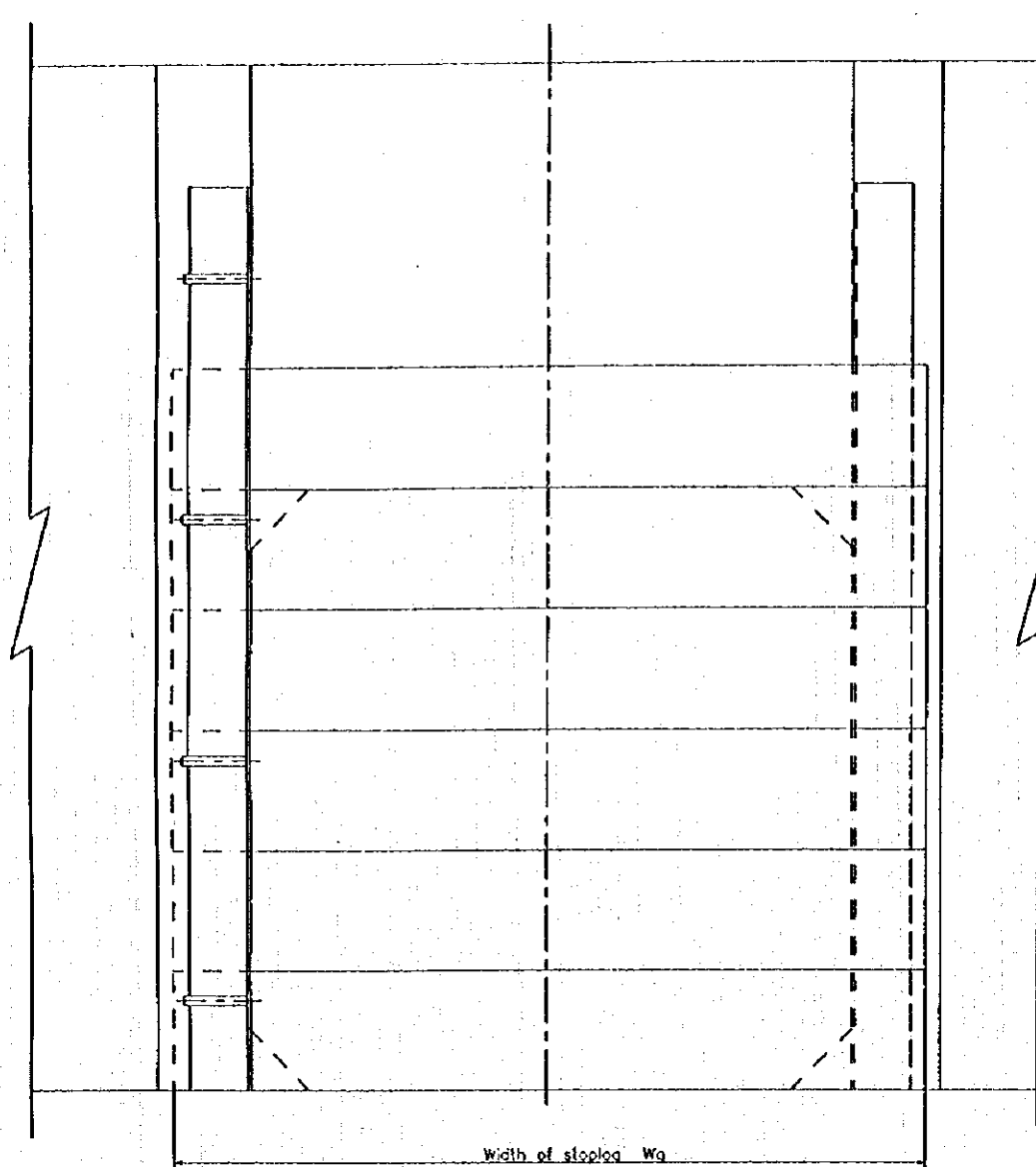


PREPARED	
CHECKED	
SUBMITTED	
DATE	
REFERENCE	DWG. NO.

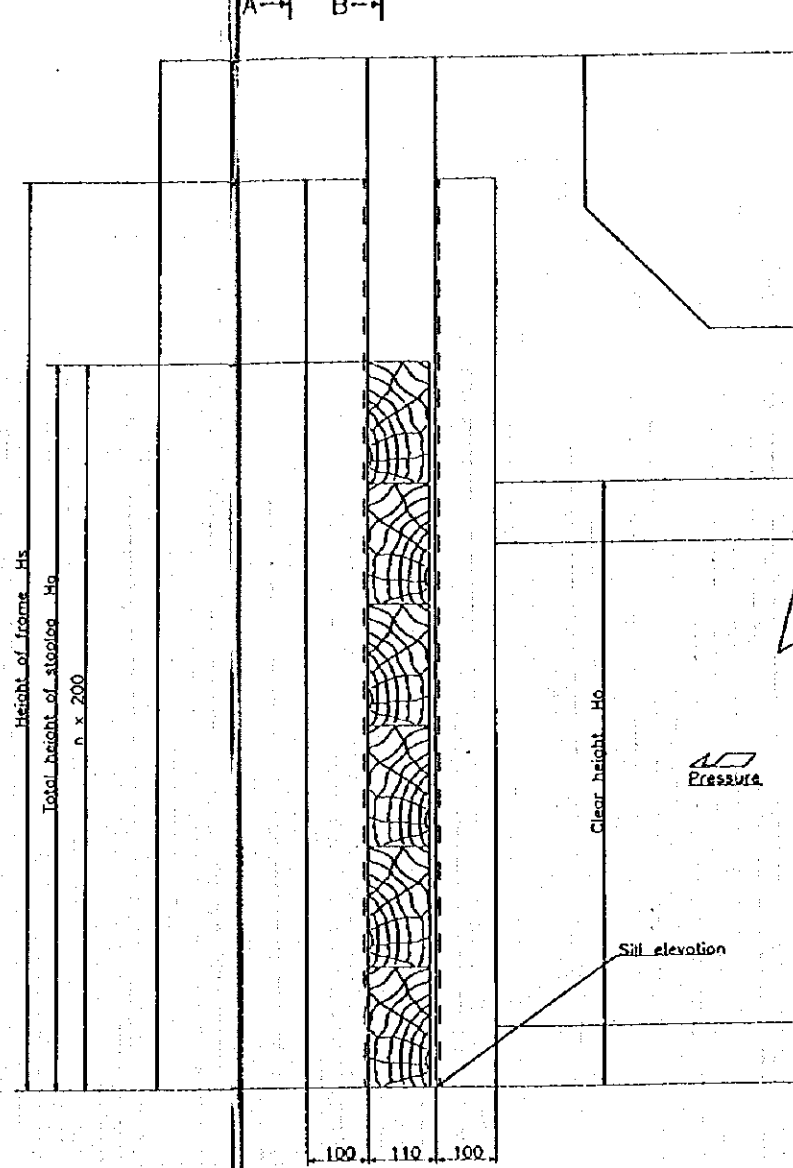
MINISTRY OF PUBLIC WORK
 DIRECTORATE GENERAL OF HUMAN SETTLEMENTS
 JAPAN INTERNATIONAL COOPERATION AGENCY
 THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT
 IN
 THE CITY OF JAKARTA

TITLE OF DRAWING
 DRAINAGE FACILITIES
 FLAP GATE, GENERAL ARRANGEMENT
 0.4m x 0.4m Level Type C(D), C(L)
 DWG. NO. J-30-20-022

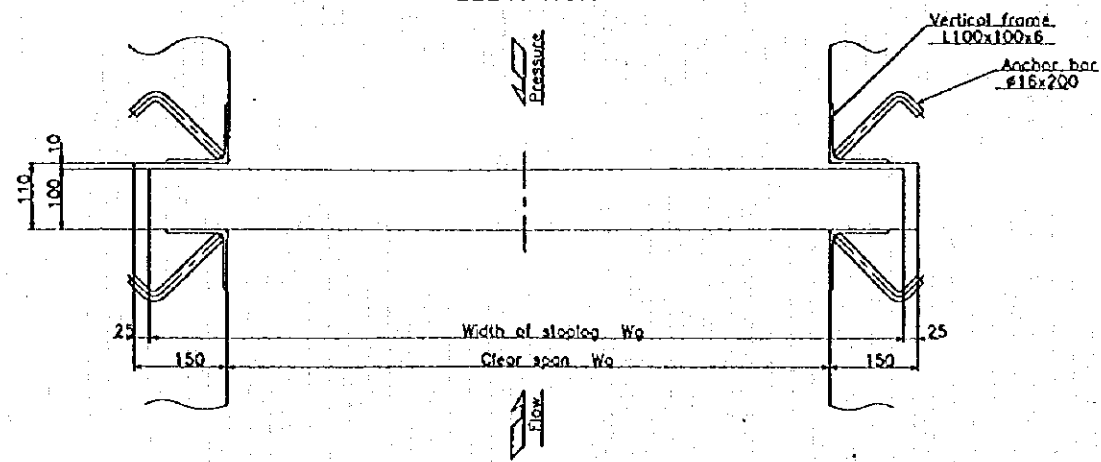
APPROVED
 DATE



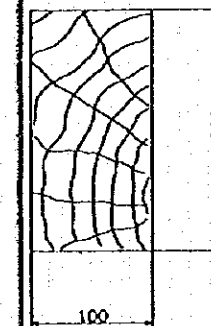
SECTION A-A SECTION B-B
ELEVATION SCALE A



PROFILE SCALE A

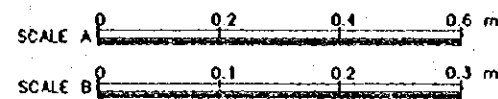


PLAN SCALE A



SECTION OF STOPLOG SCALE B

Stave way No.	Opening		Slot Hs (m)	Stoplog		n	Quantity Set(PCS)
	Wg (m)	Hg (m)		Wg (m)	Hg (m)		
SKM-1L	1.2	1.2	1.70	1.45	1.40	7	1(7)
SKM-2L	1.1	1.1	1.50	1.35	1.20	6	1(6)
SKM-3L	1.5	1.3	1.70	1.75	1.40	7	1(7)
SKM-4L	0.8	0.8	1.30	1.05	1.00	5	1(5)
SKM-5L	1.0	1.0	1.50	1.25	1.20	6	1(6)
SKM-6L	1.0	1.0	1.50	1.25	1.20	6	1(6)
SKM-7L	0.7	0.7	1.10	0.55	0.80	4	1(4)
SKM-8L	1.0	1.0	1.50	1.25	1.20	6	1(6)
SKM-1R	1.1	1.1	1.50	1.35	1.20	6	1(6)
SKM-2R	1.2	1.2	1.70	1.45	1.40	7	1(7)
SKM-3R	1.3	1.3	1.70	1.55	1.40	7	1(7)
SKM-4R	0.8	0.8	1.30	1.05	1.00	5	1(5)
SKM-5R	0.8	0.8	1.30	1.05	1.00	5	1(5)
SKM-6R	0.8	0.8	1.30	1.05	1.00	5	1(5)
SKM-7R	1.0	1.0	1.50	1.25	1.20	6	1(6)
SKE-1L	0.8	0.8	1.30	1.05	1.00	5	1(5)
SKE-2L	0.4	0.4	0.90	0.65	0.60	3	1(3)
SKE-3L	0.4	0.4	0.90	0.65	0.60	3	1(3)
SKE-4L	0.8	0.8	1.30	1.05	1.00	5	1(5)
SKE-5L	0.4	0.4	0.90	0.65	0.60	3	1(3)
SKE-1R	0.8	0.8	1.30	1.05	1.00	5	1(5)
SKE-2R	0.9	0.9	1.30	1.15	1.00	5	1(5)
SKE-3R	0.4	0.4	0.90	0.65	0.60	3	1(3)
STM-1L	0.8	0.8	1.30	1.05	1.00	5	1(5)
STM-2L	1.0	1.0	1.50	1.25	1.20	6	1(6)
STM-3L	0.8	0.8	1.30	1.05	1.00	5	1(5)
STM-4L	1.0	1.0	1.50	1.25	1.20	6	1(6)
STM-1R	0.8	0.8	1.30	1.05	1.00	5	1(5)
STM-2R	0.4	0.4	0.90	0.65	0.60	3	1(3)
STM-3R	0.8	0.8	1.30	1.05	1.00	5	1(5)
SCM-1R	1.1	1.1	1.50	1.35	1.20	6	1(6)
SCM-1L	1.3	1.3	1.70	1.55	1.40	7	1(7)
SCM-2L	1.2	1.2	1.70	1.45	1.40	7	1(7)
SCM-3L	1.0	1.0	1.50	1.25	1.20	6	1(6)
SCM-4L	1.1	1.1	1.50	1.35	1.20	6	1(6)
SCM-5L	1.0	1.0	1.50	1.25	1.20	6	1(6)
SCM-6L	1.1	1.1	1.50	1.35	1.20	6	1(6)
SCM-7L	1.1	1.1	1.50	1.35	1.20	6	1(6)
SCM-8L	0.9	0.9	1.30	1.15	1.00	5	1(5)
SCM-1R	1.2	1.2	1.70	1.45	1.40	7	1(7)
SCM-2R	1.2	1.2	1.70	1.45	1.40	7	1(7)
SCM-3R	1.0	1.0	1.50	1.25	1.20	6	1(6)
SCM-4R	1.0	1.0	1.50	1.25	1.20	6	1(6)
SCM-5R	1.0	1.0	1.50	1.25	1.20	6	1(6)
SCM-6R	1.1	1.1	1.50	1.35	1.20	6	1(6)
SCM-7R	0.8	0.8	1.30	1.05	1.00	5	1(5)
SCM-1L	0.8	0.8	1.30	1.05	1.00	5	1(5)
SCM-2L	1.0	1.0	1.50	1.25	1.20	6	1(6)
SCM-3L	0.8	0.8	1.30	1.05	1.00	5	1(5)
SCM-1R	0.8	0.8	1.30	1.05	1.00	5	1(5)
SCM-2R	0.8	0.8	1.30	1.05	1.00	5	1(5)



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 TIMBER STOPLOG, GENERAL ARRANGEMENT CLEAR SPAN 1.5m, 1.3m, 1.2m, 1.1m, 1.0m, 0.9m, 0.8m, 0.7m, 0.6m	APPROVED
CHECKED		DWG NO.	DATE
SUBMITTED		J-30-20-024	
DATE			
REFERENCE	DWG NO.		