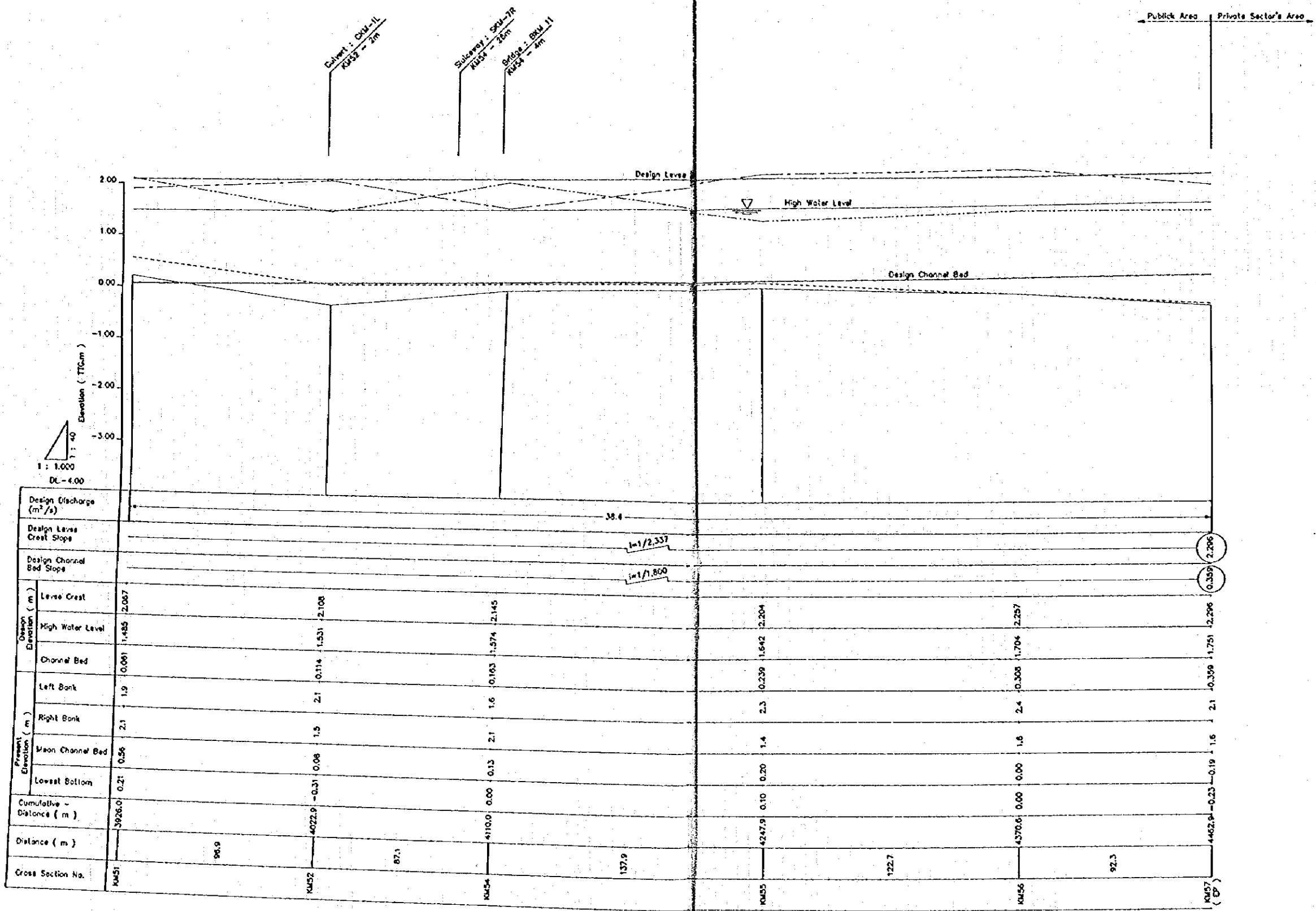


Cross Section No.	Design Discharge (m ³ /s)		Design Level Crest Slope		Design Channel Bed Slope	
	Left	Right	Left	Right	Left	Right
KM42	111.7		0.9	1.1	-0.297	-0.25
KM43	60.7		2.1	1.1	-0.235	-0.25
KM45	73.4		1.7	1.0	-0.202	-0.10
KM46			1.4	1.3	-0.161	0.10
KM47			1.2	1.4	-0.110	-0.05
KM48			1.4	1.5	-0.065	-0.10
KM50			2.4	2.0	0.008	0.40
KM51			1.9	2.1	-0.061	0.21

Design Elevation (m)	Present Elevation (m)		Cumulative Distance (m)	Distance (m)
	Left Bank	Right Bank		
Levee Crest	1.791			
High Water Level	1.204	1.839	3281.6	
Channel Bed	1.250	1.865	3553.3	
Left Bank	1.276	1.896	3454.0	
Right Bank	1.308	1.935	3527.4	
Mean Channel Bed	1.347	1.970	3616.9	
Lowest Bottom	1.440	2.026	3700.4	
	1.485	2.067	3831.3	
	1.485	2.067	3925.0	

- NOTES:
- (1) Datum Level : Mean Sea Level (TTG)
 - (2) Left Bank Profile : - - - - -
 - (3) Right Bank Profile : - - - - -
 - (4) Mean Channel Bed : - - - - -
 - (5) Lowest Bottom : - - - - -

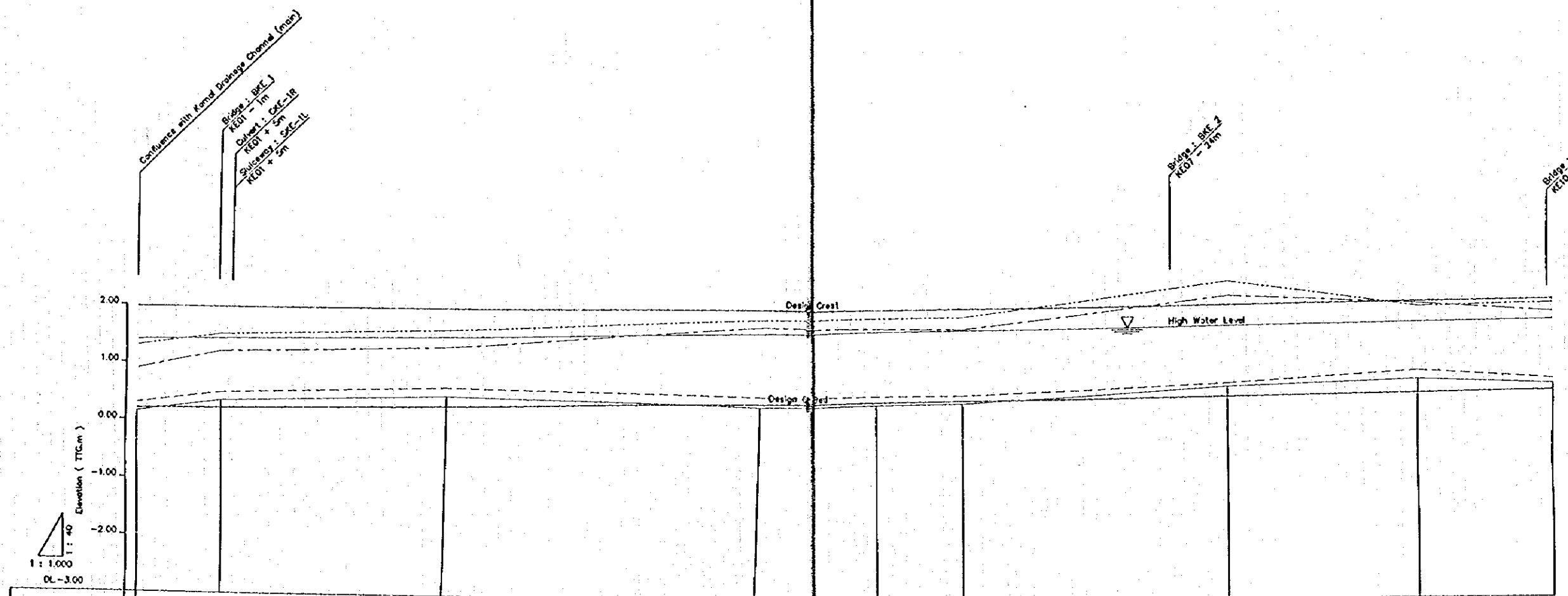
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT BY THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED		DRAINAGE CHANNEL PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (6/7)	
SUBMITTED		DWG NO.	DATE
DATE		J-10-20-106	
REFERENCE		DWG NO.	



Design Discharge (m ³ /s)	38.4									
Design Level Crest Slope	i=1/2,337									
Design Channel Bed Slope	i=1/1,800									
Design Elevation (m)	Levee Crest	2.007	2.108	2.145	2.204	2.257	2.296	2.296	2.296	2.296
	High Water Level	1.435	1.531	1.574	1.642	1.704	1.751	1.751	1.751	1.751
Present Elevation (m)	Channel Bed	0.061	0.114	0.163	0.239	0.308	0.399	0.399	0.399	0.399
	Left Bank	1.9	2.1	2.1	2.3	2.4	2.1	2.1	2.1	2.1
Present Elevation (m)	Right Bank	2.1	2.1	1.6	2.3	2.4	2.1	2.1	2.1	2.1
	Mean Channel Bed	0.56	0.56	0.13	0.20	0.00	0.00	0.00	0.00	0.00
Present Elevation (m)	Lowest Bottom	0.21	-0.31	0.13	0.20	0.00	0.00	0.00	0.00	0.00
	Cumulative Distance (m)	3926.0	4022.9	4110.0	4247.9	4370.6	4462.9	4462.9	4462.9	4462.9
Distance (m)		96.9	87.1	137.9		122.7	92.3			
Gross Section No.	KM51	KM52	KM54	KM55	KM56	KM57 (CP)				

- NOTES:
- (1) Datum Level : Mean Sea Level (TTG)
 - (2) Left Bank Profile : _____
 - (3) Right Bank Profile : _____
 - (4) Mean Channel Bed : _____
 - (5) Lowest Bottom : _____

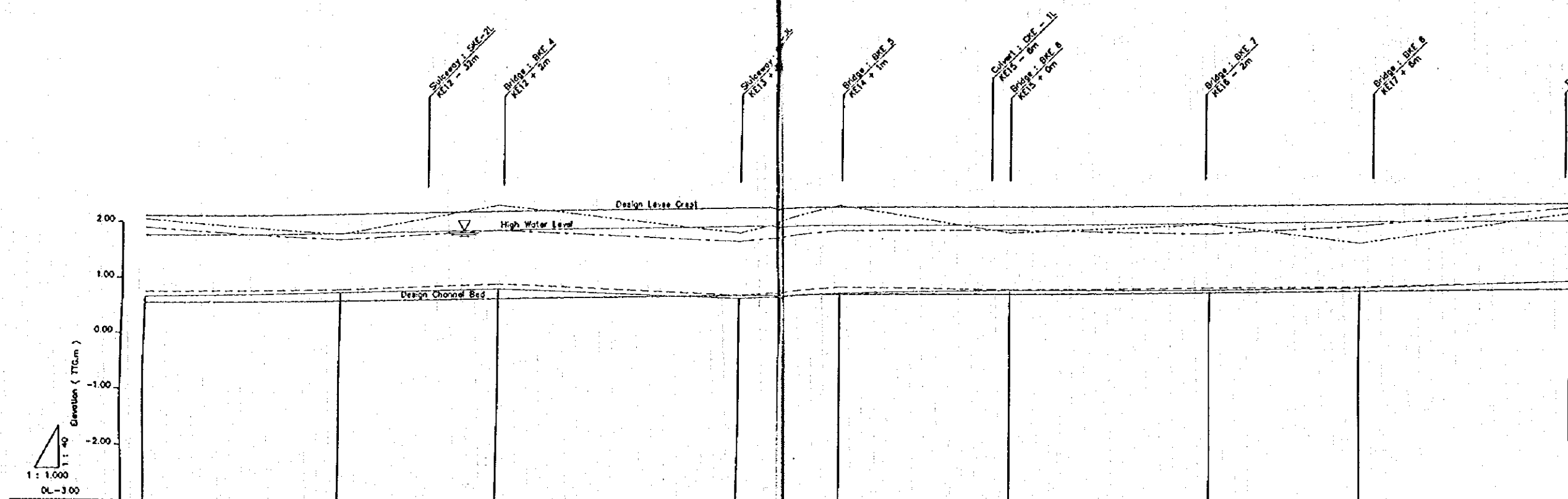
REFERENCE	DWG. NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED	
		CHECKED.....		DRAINAGE CHANNEL, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (7/7)		
		SUBMITTED.....		DWG. NO.		DATE
		DATE.....		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA		J-10-20-107



Design Discharge (m ³ /s)	13.6		
Design Level Crest Slope	1.970	1.970	
Design Channel Bed Slope	0.200	1/1,800	
Design Elevation (m)	Levee Crest	1.970	1.970
	High Water Level	1.400	1.422
Present Elevation (m)	Channel Bed	0.200	0.220
	Left Bank	0.90	1.20
Present Elevation (m)	Right Bank	1.30	1.50
	Mean Channel Bed	0.30	0.49
Present Elevation (m)	Lowest Bottom	0.15	0.35
	Lowest Bottom	0.45	0.60
Cumulative Distance (m)	0.0	36.6	
Distance (m)	134.0	0.45	
Cross Section No.	KE00 (BP)	KE01	
	36.6	97.4	
	134.0	138.3	
	272.3	0.30	
	0.47	1.00	
	1.67	1.87	
	1.560	1.970	
	62.7	1.970	
	335.0	1.985	
	372.7	0.36	
	0.50	1.64	
	1.64	0.407	
	1.616	1.985	
	114.1	2.20	
	0.470	1.684	
	486.8	0.70	
	0.64	2.05	
	2.05	2.00	
	568.3	0.75	
	0.75	0.90	
	0.90	1.730	
	2.083	2.083	
	626.2	0.66	
	0.66	1.763	
	1.763	2.112	
	KE02	1.970	
	138.3	1.970	
	272.3	1.970	
	335.0	1.970	
	372.7	1.970	
	486.8	1.970	
	568.3	1.970	
	626.2	1.970	
	KE03	1.970	
	62.7	1.970	
	335.0	1.970	
	372.7	1.970	
	486.8	1.970	
	568.3	1.970	
	626.2	1.970	
	KE04	1.970	
	114.1	1.970	
	486.8	1.970	
	568.3	1.970	
	626.2	1.970	
	KE05	1.970	
	62.7	1.970	
	335.0	1.970	
	372.7	1.970	
	486.8	1.970	
	568.3	1.970	
	626.2	1.970	
	KE06	1.970	
	81.5	1.970	
	568.3	1.970	
	626.2	1.970	
	KE07	1.970	
	486.8	1.970	
	568.3	1.970	
	626.2	1.970	
	KE08	1.970	
	81.5	1.970	
	568.3	1.970	
	626.2	1.970	
	KE09	1.970	
	57.9	1.970	
	568.3	1.970	
	626.2	1.970	
	KE10	1.970	
	626.2	1.970	

- NOTES:
- (1) Datum Level : Mean Sea Level (TTC)
 - (2) Left Bank Profile : - - - - -
 - (3) Right Bank Profile : - - - - -
 - (4) Mean Channel Bed : - - - - -
 - (5) Lowest Bottom : - - - - -

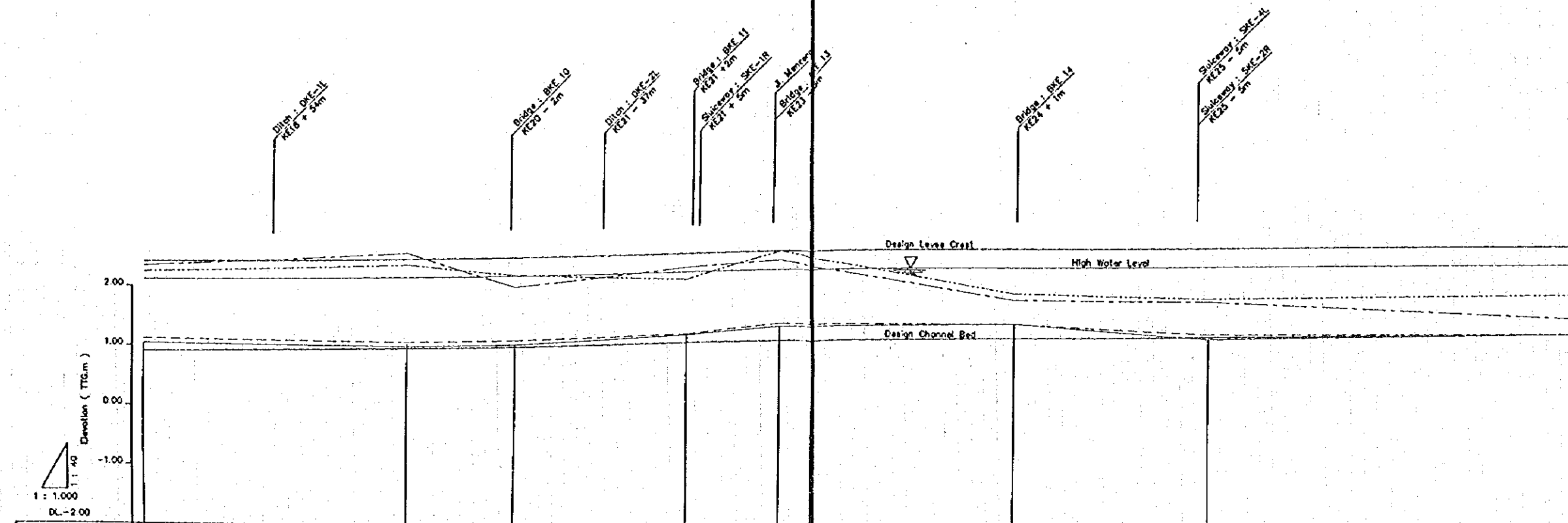
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED		DRAINAGE CHANNEL, PROFILE, KAMAL DRAINAGE CHANNEL (BRANCH) (1/5)	
SUBMITTED		DWG NO.	DATE
DATE		J-10-20-201	
REFERENCE		DWG NO.	



Design Discharge (m ³ /s)	13.6										10.1									
Design Levee Crest Slope											1:2.056									
Design Channel Bed Slope											1:1.800									
Design Elevation (m)	Levee Crest	2.312	2.155	2.189	2.242	2.267	2.303	2.345	2.376	2.423										
	High Water Level	1.763	1.813	1.854	1.916	1.944	1.986	2.035	2.078	2.117										
	Channel Bed	0.546	0.597	0.637	0.697	0.725	0.767	0.815	0.852	0.903										
	Left Bank	1.90	1.70	1.85	1.65	1.65	1.90	1.85	2.00	1.70										
Present Elevation (m)	Right Bank	2.05	1.80	2.30	1.80	2.30	1.85	2.02	1.70	2.35										
	Mean Channel Bed	0.75	0.80	0.90	0.70	0.85	0.85	0.90	0.93	1.12										
	Lowest Bottom	0.66	0.75	0.81	0.64	0.75	0.84	0.86	0.91	1.04										
	Cumulative Distance (m)	626.2	714.3	765.9	894.7	944.7	1020.1	1107.7	1174.1	1265.4										
Distance (m)	86.1	71.6	108.6	89.4	75.4	87.6	66.4	91.3												
Cross Section No.	KE10	KE11	KE12	KE13	KE14	KE15	KE16	KE17	KE18											

- NOTES:
- (1) Datum Level : Mean Sea Level (TIG)
 - (2) Left Bank Profile : _____
 - (3) Right Bank Profile : _____
 - (4) Mean Channel Bed : _____
 - (5) Lowest Bottom : _____

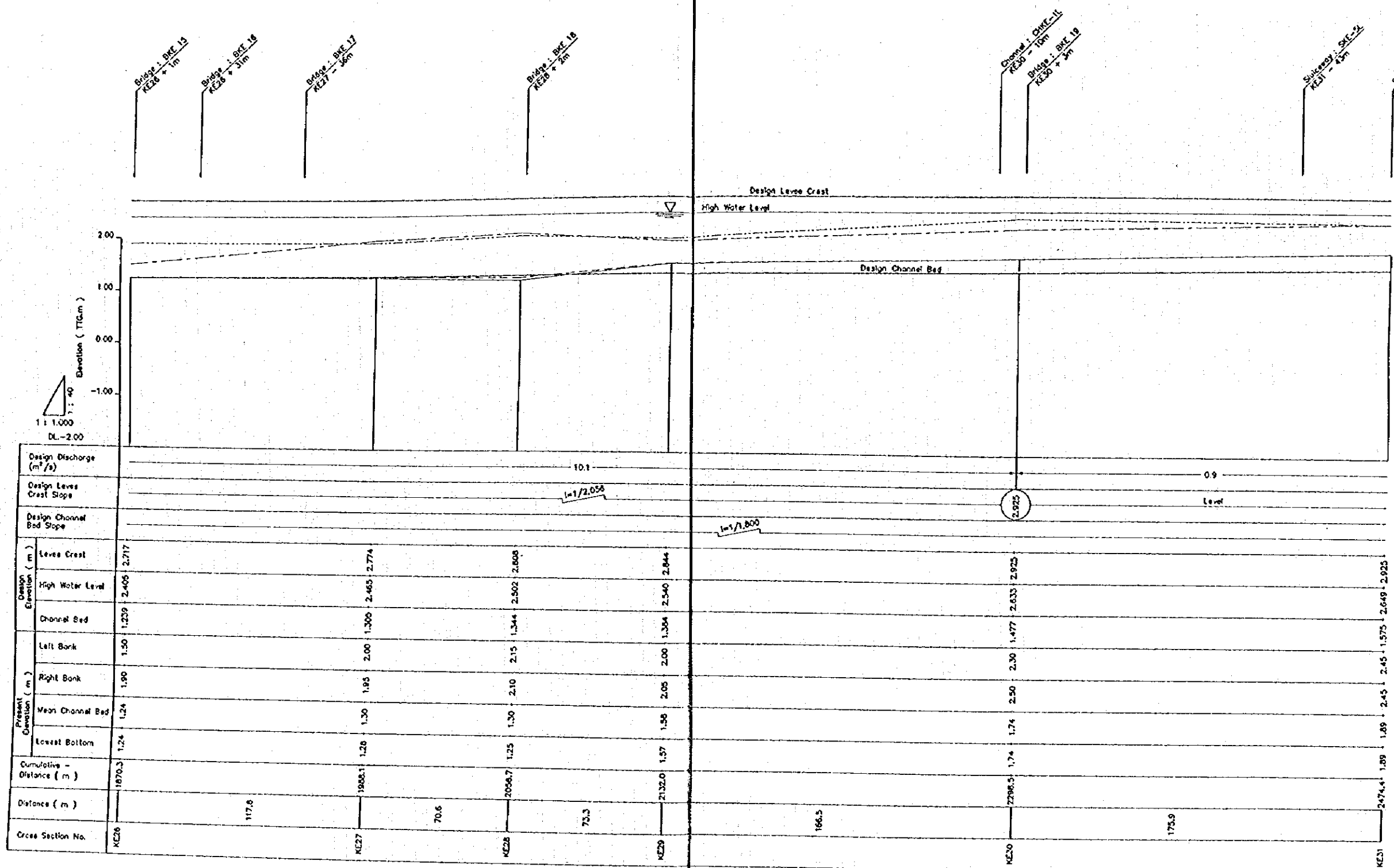
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED		DRAINAGE CHANNEL, PROFILE, KAMAL DRAINAGE CHANNEL (BRANCH) (2/3)	
SUBMITTED		DWG NO.	DATE
DATE		J-10-20-202	
REFERENCE	DWG. NO.		



Design Discharge (m ³ /s)	10.1										
Design Levee Crest Slope	1=1/2,056										
Design Channel Bed Slope	1=1/1,800										
Design Elevation (m)	Levee Crest	2.423									
	High Water Level	2.117	2.187	2.477							
Present Elevation (m)	Channel Bed	0.903	0.965	2.166	2.499						
	Left Bank	2.35	2.38	2.00	2.335						
Present Elevation (m)	Right Bank	2.25	2.38	2.20	2.30	2.10	2.60	2.60	2.60	2.60	2.643
	Mean Channel Bed	1.12	1.07	1.10	1.16	1.16	1.10	1.10	1.10	1.12	1.12
Cumulative Distance (m)	Lowest Bottom	1.04	1.00	1.03	1.16	1.16	1.04	1.10	1.10	1.12	1.12
	Distance (m)	1265.4	1376.9	1421.9	1497.0	1536.7	1637.4	1716.5	1716.5	1716.5	1870.3
Cross Section No.	KE16	KE19	KE20	KE21	KE23	KE24	KE25	KE26			

- NOTES :
- (1) Datum Level : Mean Sea Level (TTG)
 - (2) Left Bank Profile : _____
 - (3) Right Bank Profile : _____
 - (4) Mean Channel Bed : _____
 - (5) Lowest Bottom : _____

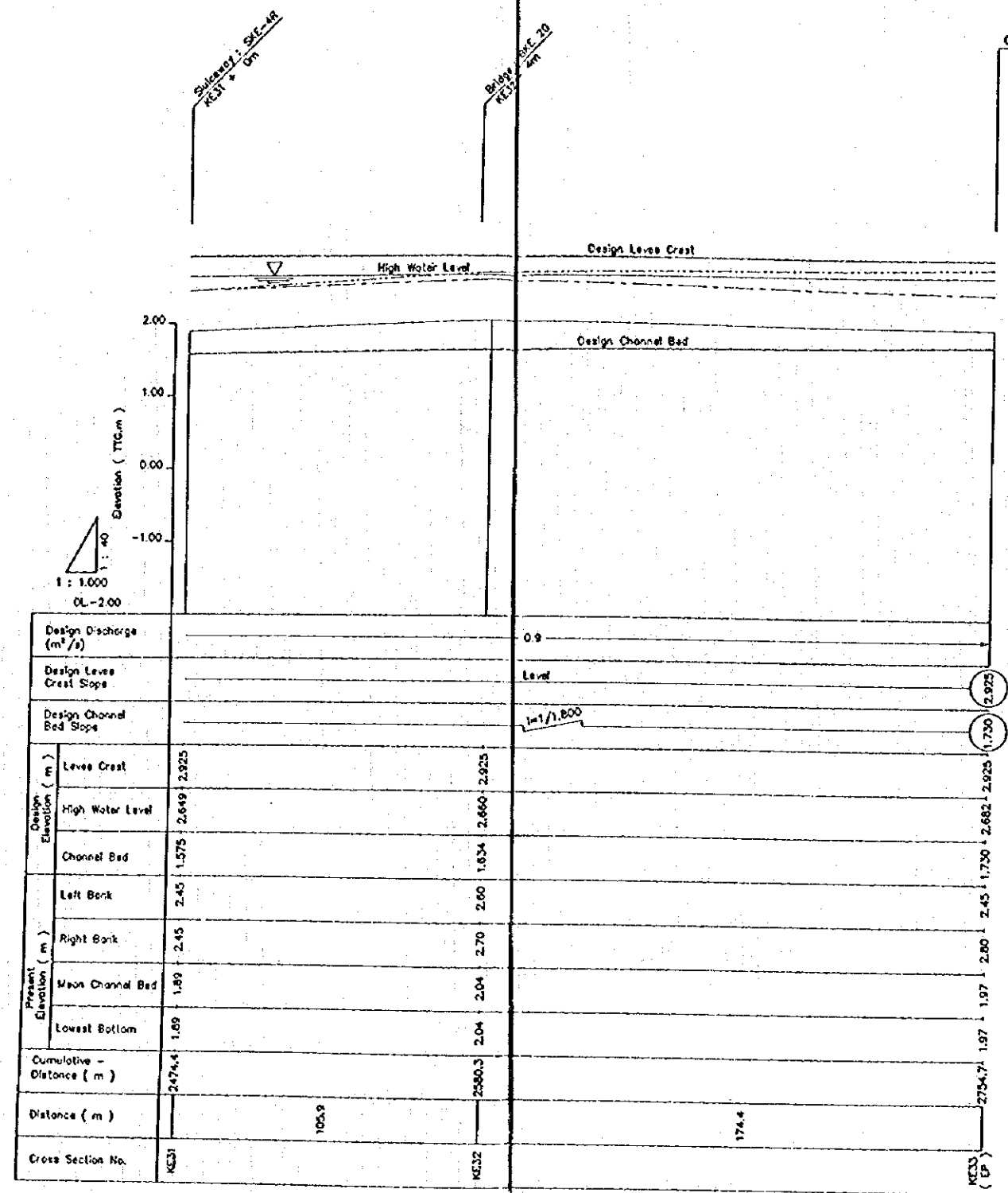
PREPARED.....	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED.....		DRAINAGE CHANNEL PROFILE, KAMAL DRAINAGE CHANNEL (BRANCH) (3/3)	
SUBMITTED.....		DWG NO.	DATE
DATE.....		J-10-20-203	
REFERENCE		DWG NO.	



Design Discharge (m ³ /s)			10.1				0.9	
Design Level Crest Slope			1:1/2.056				Level	
Design Channel Bed Slope			1:1/1.800					
Design Elevation (m)	Level Crest	2.777						
	High Water Level	2.405	2.465	2.502	2.540	2.844		
Channel Bed		1.239	1.300	1.344	1.366	1.366	1.477	2.633
	Left Bank	1.50	2.00	2.15	2.00	2.00	2.30	1.477
Right Bank		1.90	1.95	2.10	2.05	2.05	2.50	1.477
	Mean Channel Bed	1.24	1.30	1.30	1.36	1.36	1.74	1.74
Lowest Bottom	1.24	1.28	1.25	1.57	1.57	1.57	1.74	1.74
Cumulative Distance (m)	1870.3	1988.1	2096.7	2132.0	2132.0	2132.0	2296.5	2474.4
Distance (m)		117.8	70.6	75.3	166.5		175.9	
Cross Section No.	KC26	KC27	KC28	KC29	KC30		KC31	

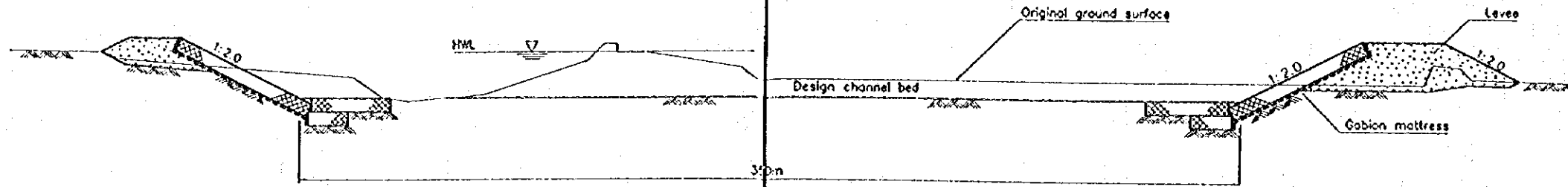
- NOTES:
- (1) Datum Level : Mean Sea Level (ITG)
 - (2) Left Bank Profile : - - - - -
 - (3) Right Bank Profile : - - - - -
 - (4) Mean Channel Bed : - - - - -
 - (5) Lowest Bottom : - - - - -

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 DRAINAGE CHANNEL, PROFILE, KAWAL DRAINAGE CHANNEL (BRANCH) (4/5)	APPROVED
CHECKED.....		DWG NO.	DATE
SUBMITTED.....		J-10-20-204	
DATE.....			
REFERENCE		DWG NO.	

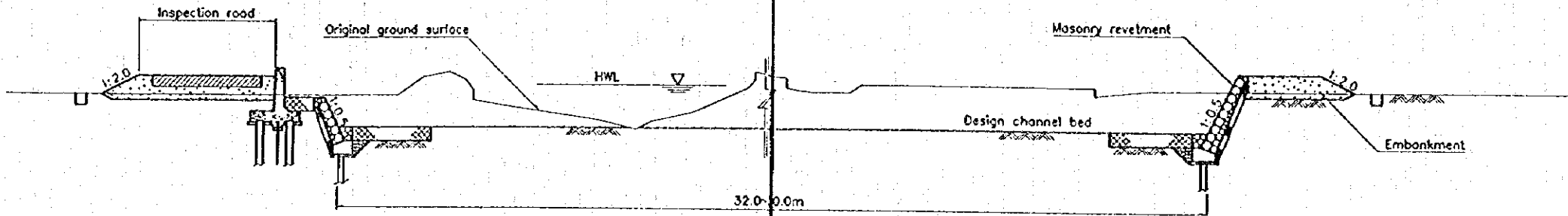


- NOTES:
- (1) Datum Level : Mean Sea Level (TIG)
 - (2) Left Bank Profile : -----
 - (3) Right Bank Profile : -----
 - (4) Mean Channel Bed : -----
 - (5) Lowest Bottom : -----

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	DRAINAGE CHANNEL, PROFILE, KAMAL DRAINAGE CHANNEL (BRANCH) (5/5)	APPROVED
CHECKED		DWG NO.		DATE
SUBMITTED		J-10-20-205		
DATE				
REFERENCE	DWG NO.			

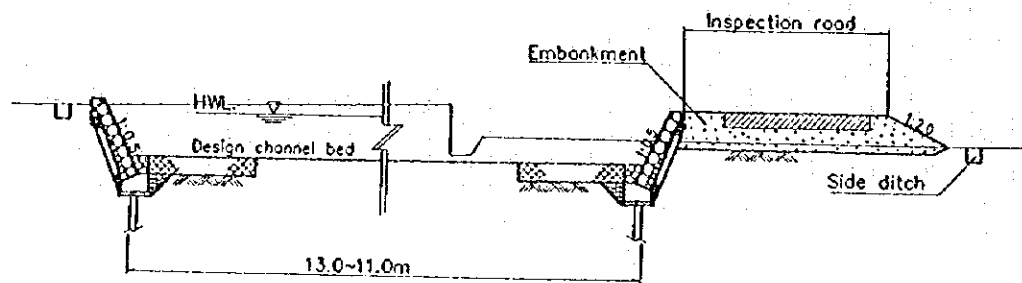


(a) Downstream of Tol Prof. Sedyatmo

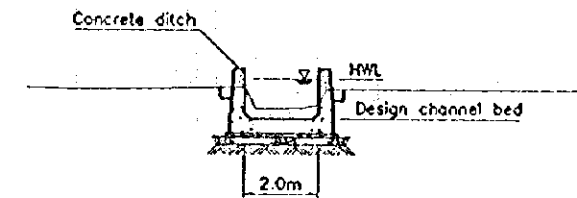


(b) Upstream of Jl. Prof. Sedyatmo

(1) Kamal Drainage Channel (Main)

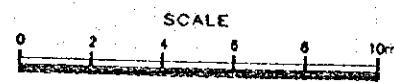


(a) Downstream Stretch



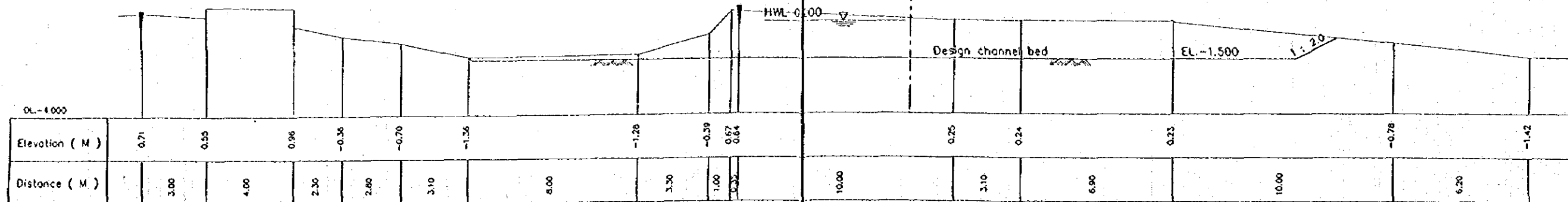
(b) Upstream Stretch

(2) Kamal Drainage Channel (Branch)

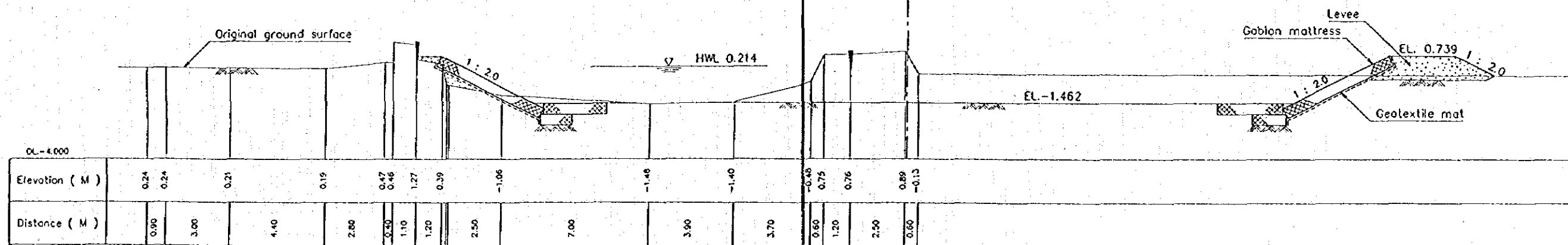


REFERENCE	DWG. NO.	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED	
	PREPARED		DRAINAGE CHANNEL, TYPICAL CROSS SECTION (1/3)		
	CHECKED		DWG. NO.		DATE
	SUBMITTED		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA		J-10-30-001
	DATE				

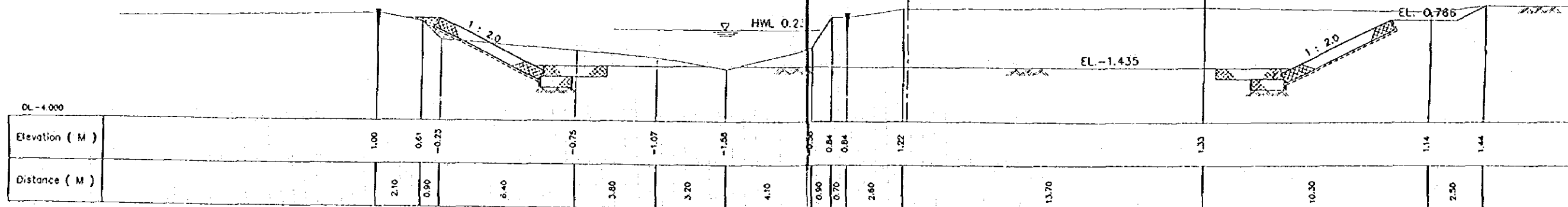
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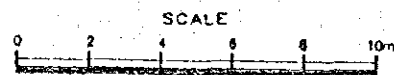
KM - 01



KM - 02

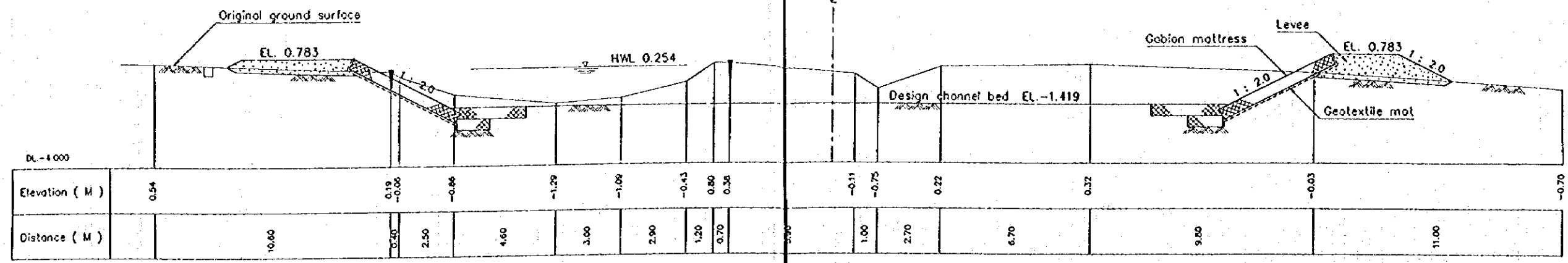


NOTE:
Datum Level : Mean Sea Level (ITG)

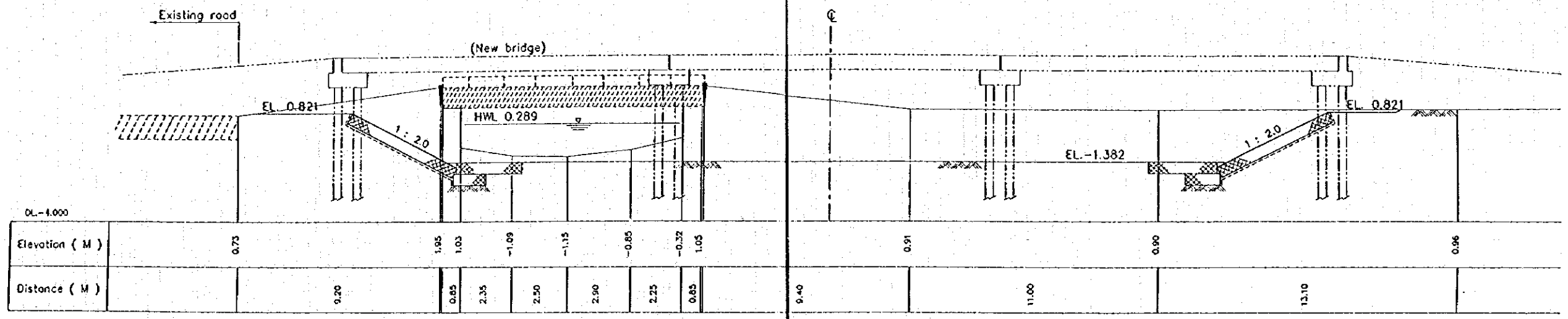


PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (1/16)	APPROVED
CHECKED.....		OWG NO. J-10-30-101	DATE
SUBMITTED.....			
DATE.....			
REFERENCE	DWG NO.		

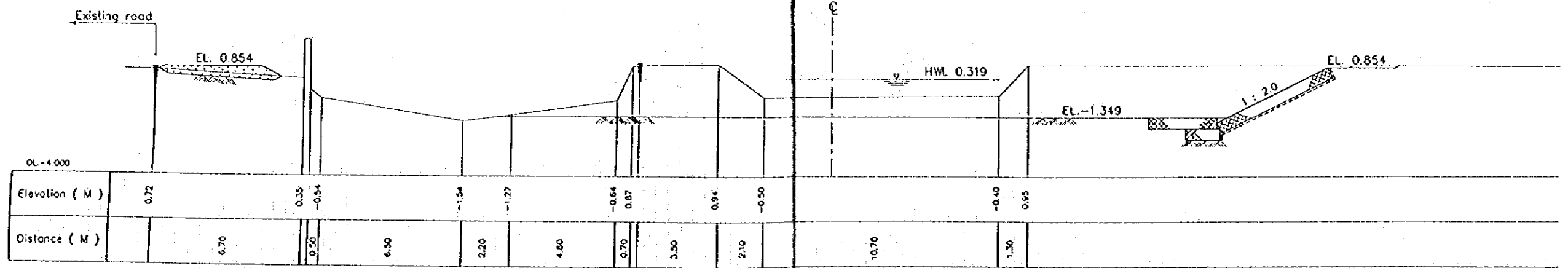
KM - 03



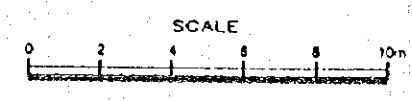
KM - 05



KM - 06

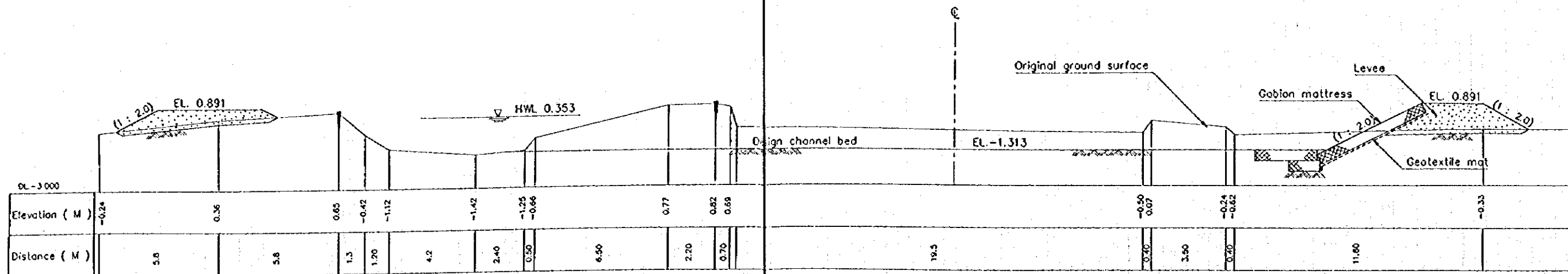


NOTE :
Datum Level : Mean Sea Level (TIG)

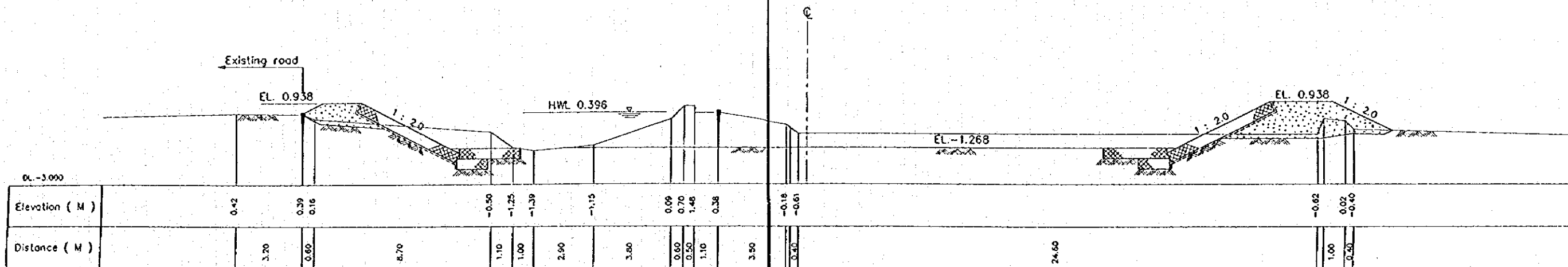


REFERENCE	DWG NO.	PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (2/16)	APPROVED
		CHECKED			
		SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-10-30-102	DATE
		DATE			

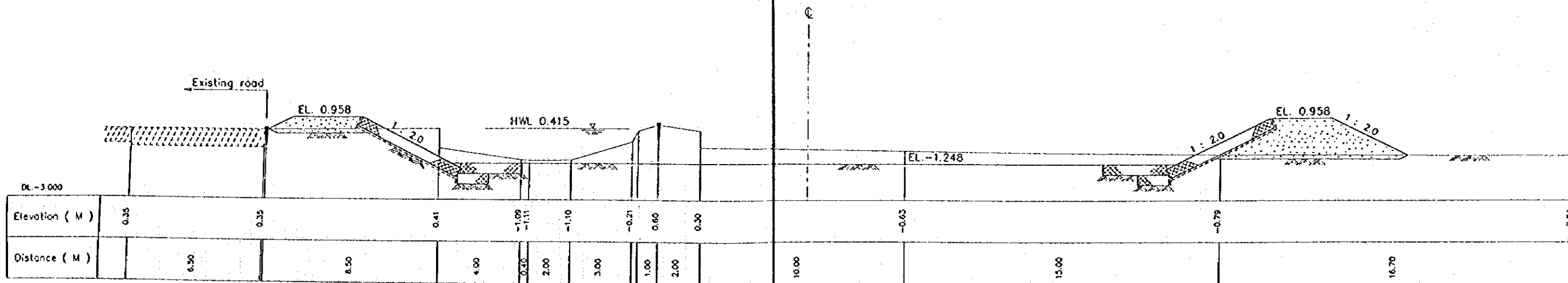
KM -- 07



KM - 08



KM - 09



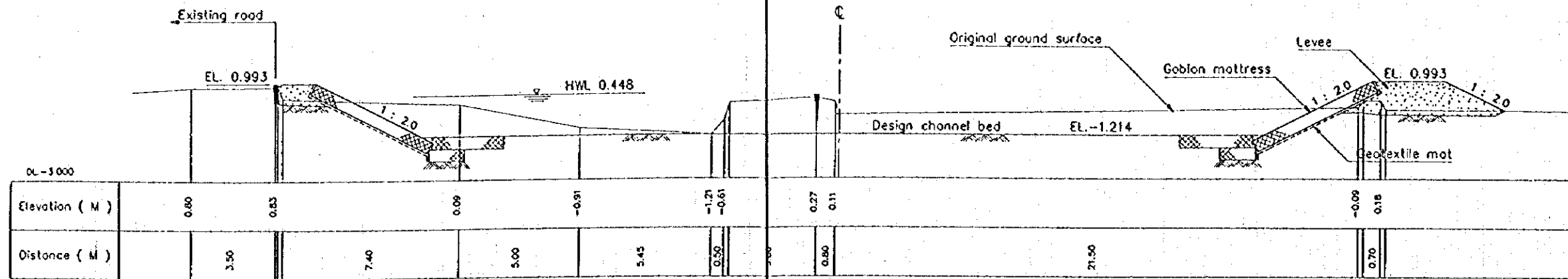
NOTE :

Datum Level : Mean Sea Level (TIG)

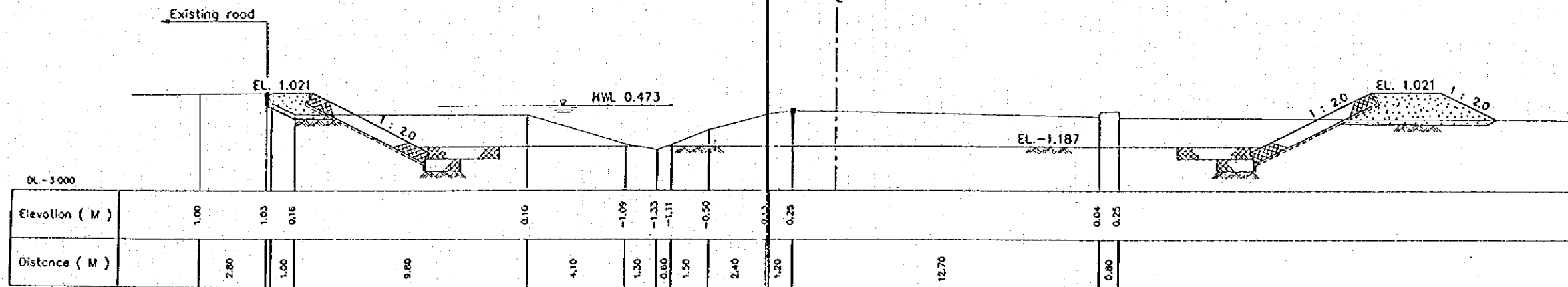


PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (3/16) DAG NO. J-10-30-103	APPROVED
CHECKED				DATE
SUBMITTED				
DATE				
REFERENCE	DWG. NO.			

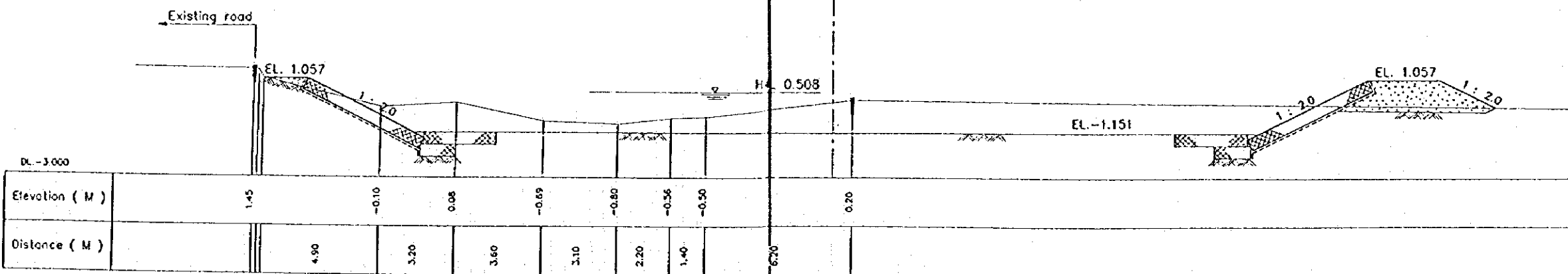
KM - 10



KM - 11

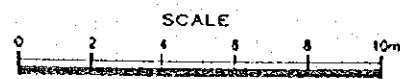


KM - 12



NOTE:

Datum Level : Mean Sea Level (TTC)



PREPARED	
CHECKED	
SUBMITTED	
DATE	
REFERENCE	
DWG. NO.	

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

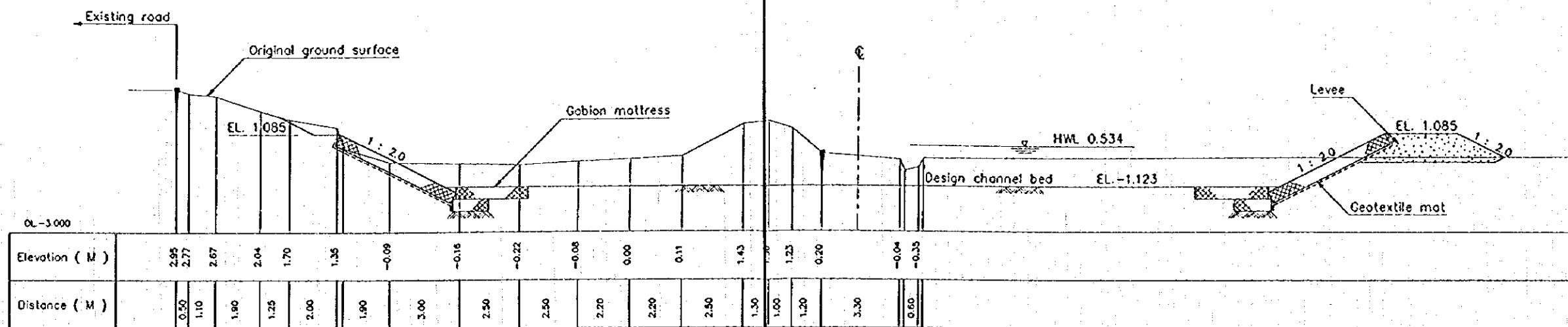
TITLE OF DRAWING
DRAINAGE CHANNEL, CROSS SECTION,
KAMAL DRAINAGE CHANNEL (MAIN) (4/16)

DWG NO.
J-10-30-104

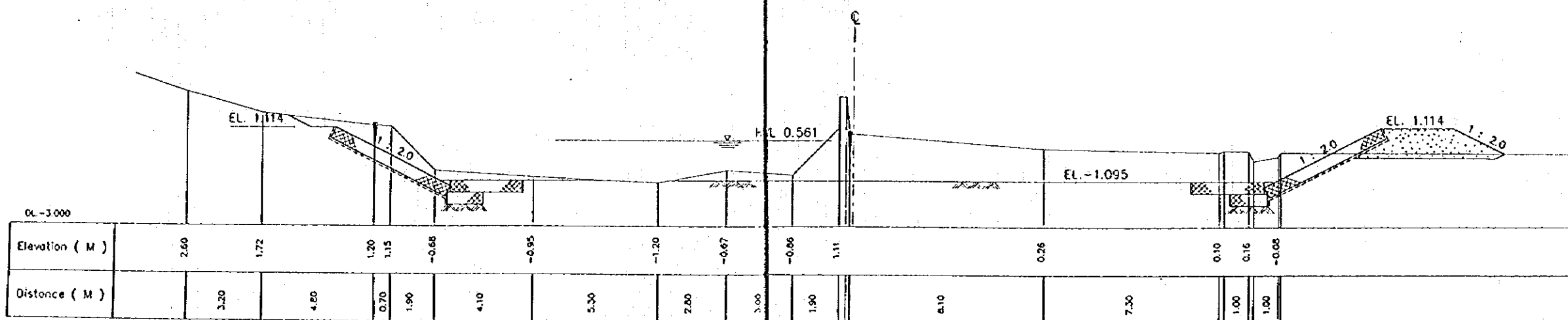
APPROVED

DATE

KM - 13

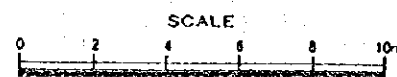


KM - 14

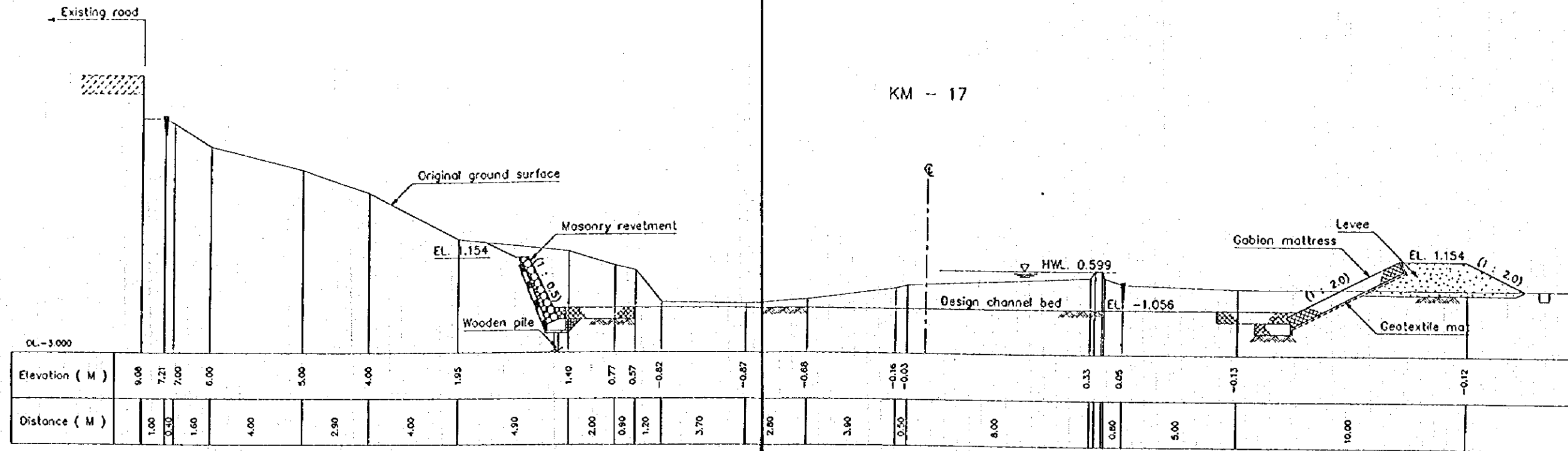


NOTE :

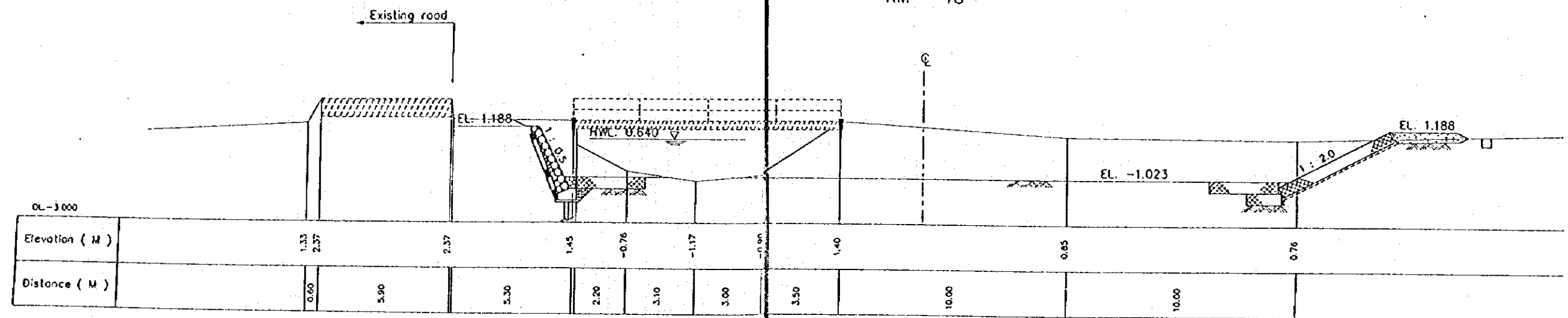
Datum Level : Mean Sea Level (TIG)



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.....		DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (5/18)	
SUBMITTED.....		DWG NO.	DATE
DATE.....		J-10-30-105	
REFERENCE		DWG NO.	



KM - 17

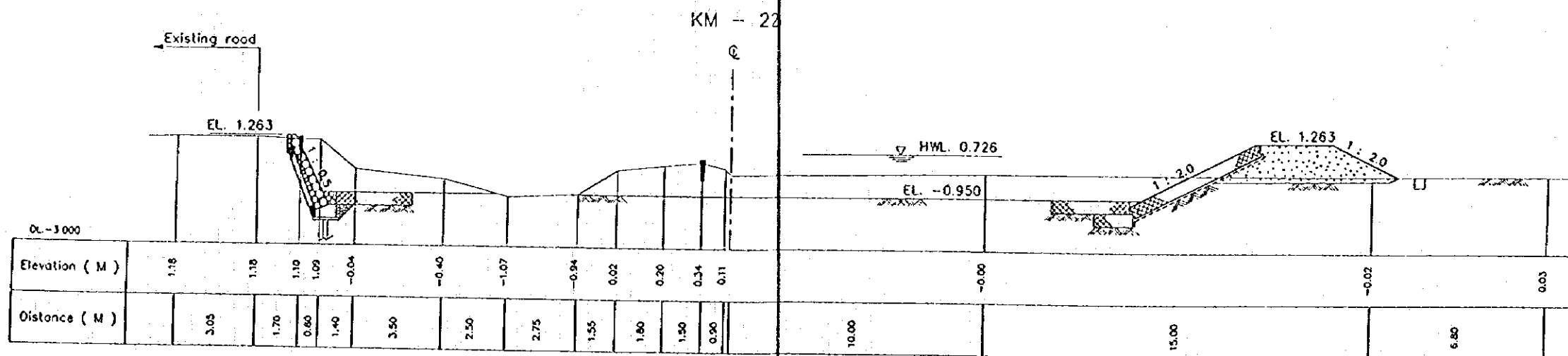
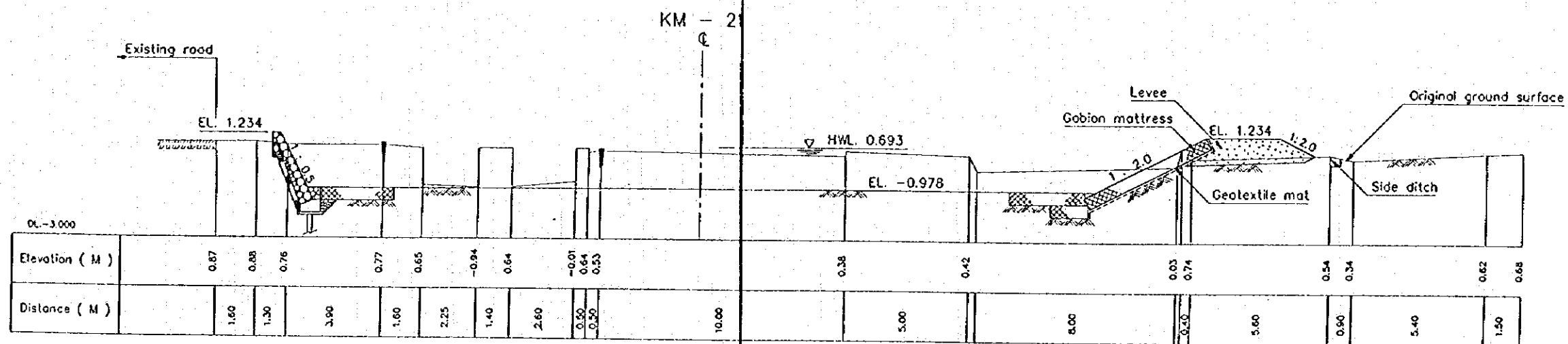
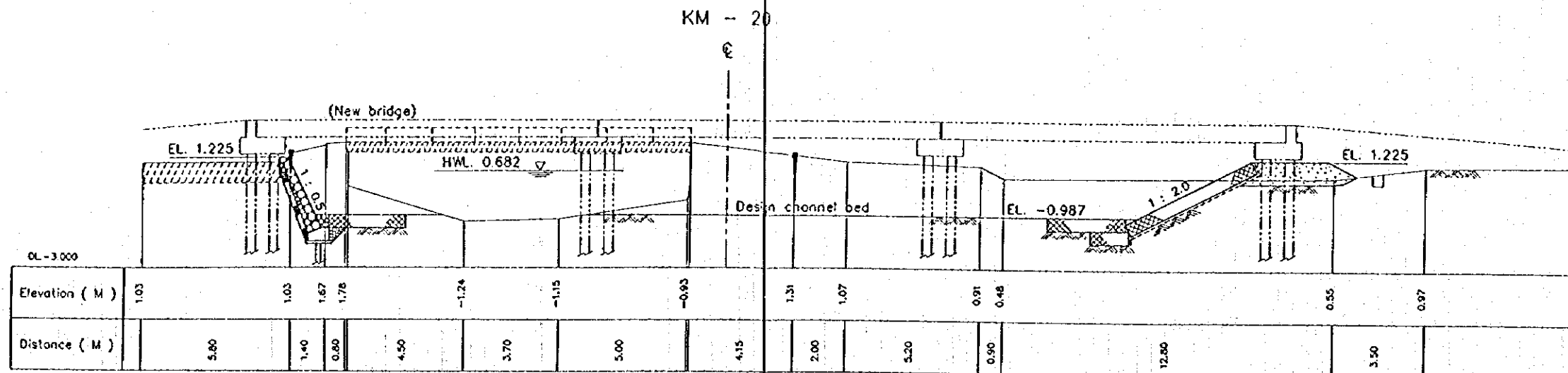


KM - 18

NOTE:
Datum Level : Mean Sea Level (ITG)



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.....		DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (8/18)	
SUBMITTED.....		DWG NO.	DATE
DATE.....		J-10-30-106	
REFERENCE	DWG NO.		

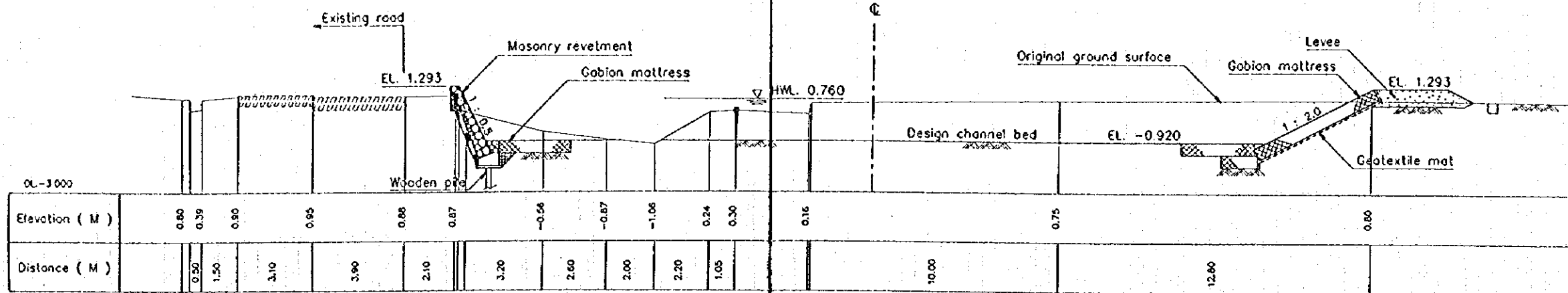


NOTE :
Datum Level : Mean Sea Level (TIG)

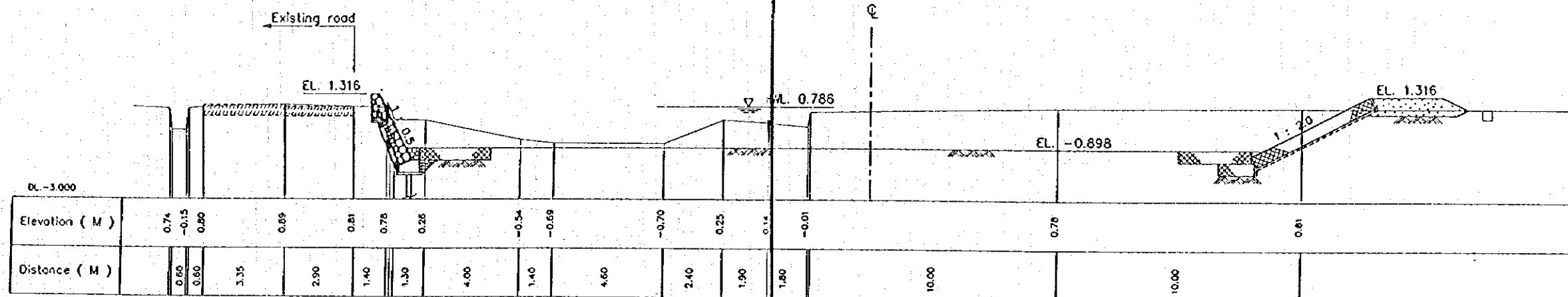


PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (7/18)	APPROVED	
CHECKED			DWG NO.		J-10-30-107	DATE
SUBMITTED			REFERENCE			
DATE			DWG NO.			

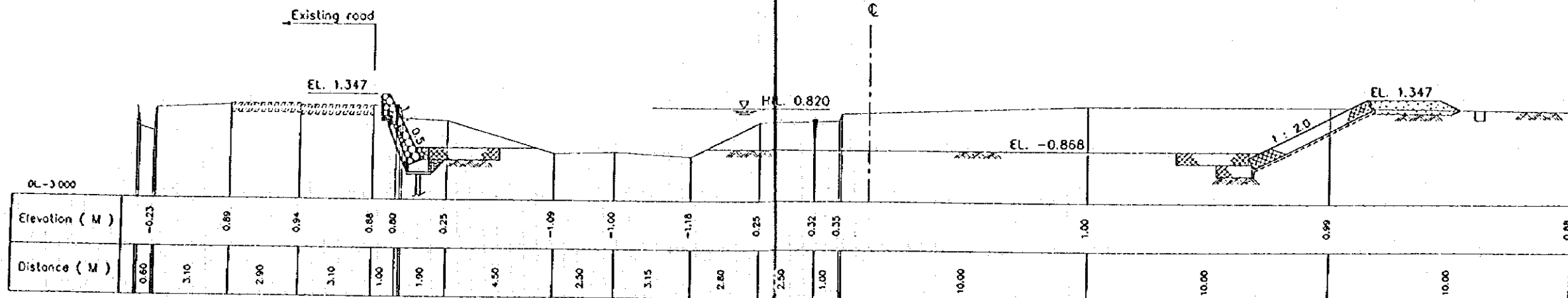
KM - 23



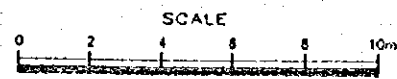
KM - 24



KM - 25

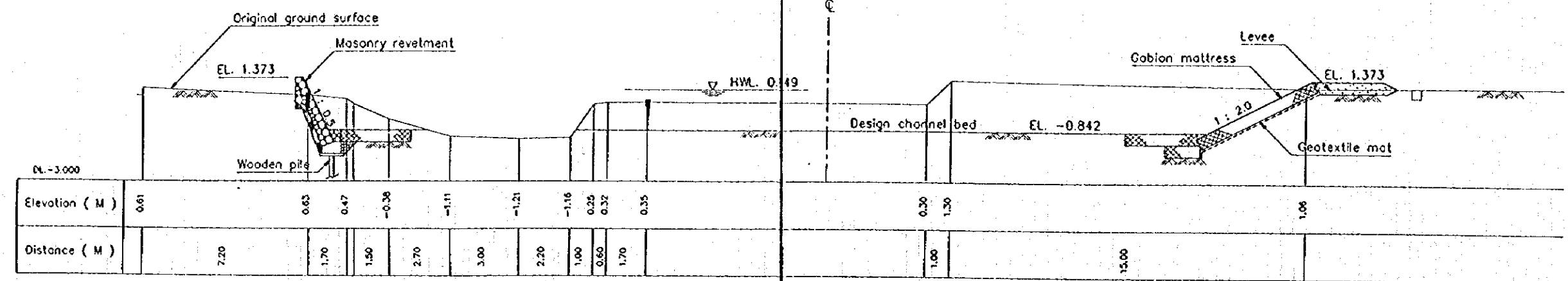


NOTE :
Datum Level : Mean Sea Level (TTC)

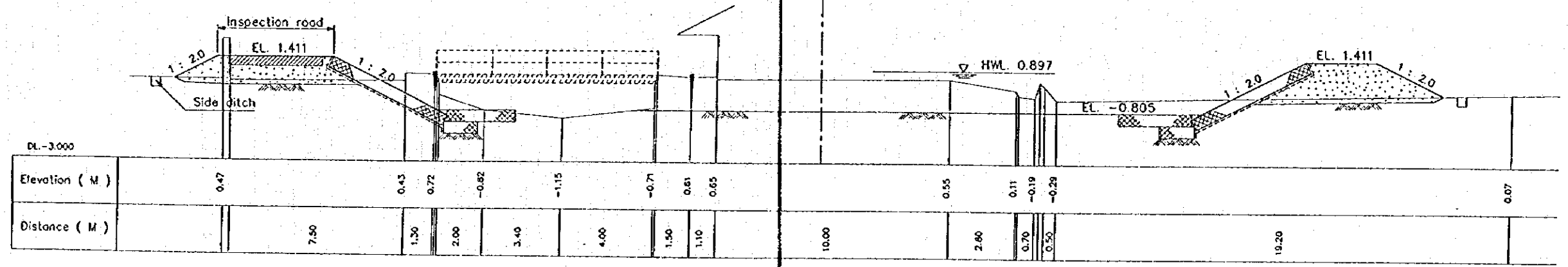


PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (8/16) DWG NO. J-10-30-108	APPROVED
CHECKED			DATE
SUBMITTED			
DATE			
REFERENCE			DWG NO.

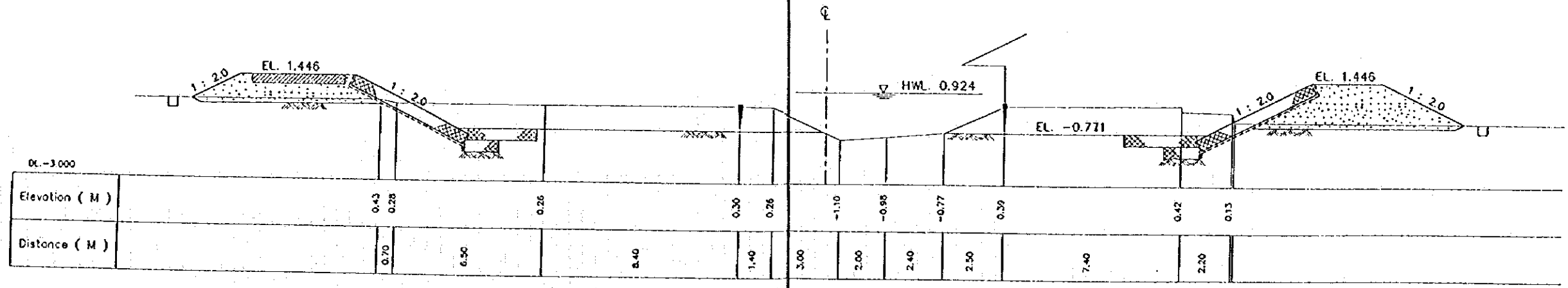
KM - 26



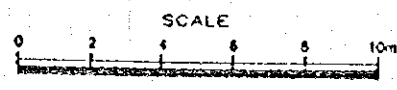
KM - 27



KM - 28

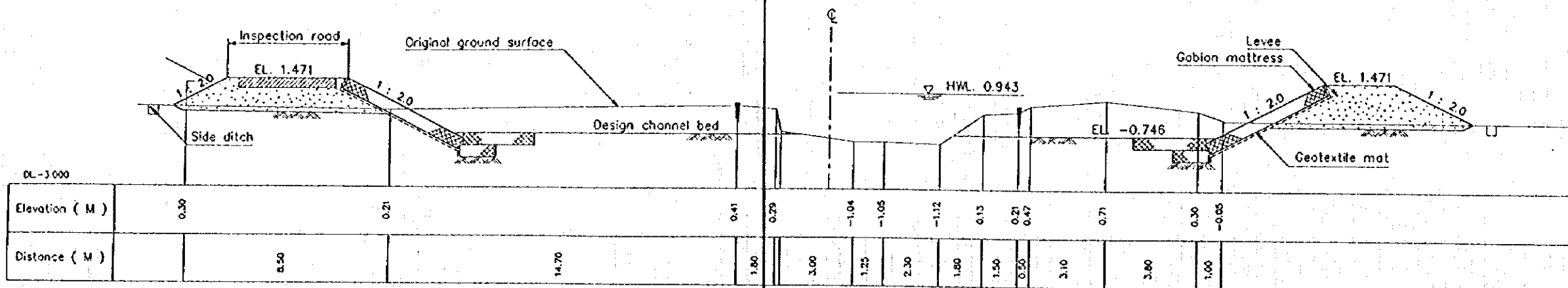


N.O.T.E.
Datum Level : Mean Sea Level (TIG)

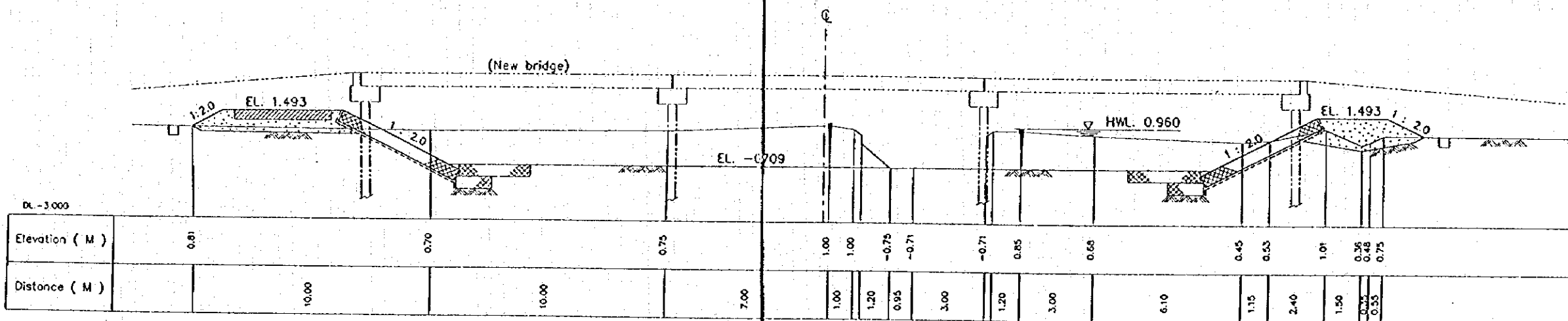


PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (9/16) DWG NO. J-10-30-109	APPROVED
CHECKED				DATE
SUBMITTED				
DATE				
REFERENCE	DWG NO.			

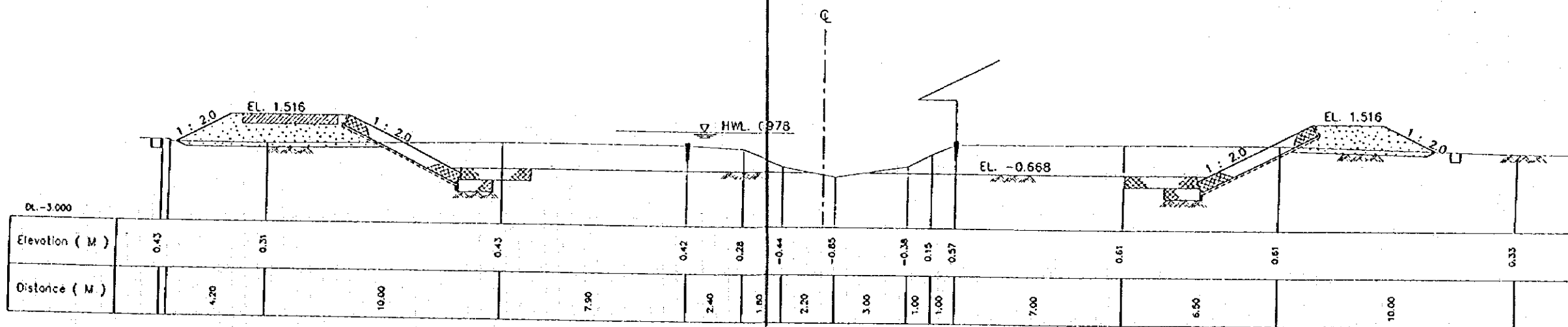
KM - 29



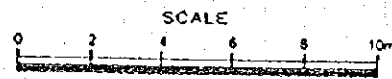
KM - 31



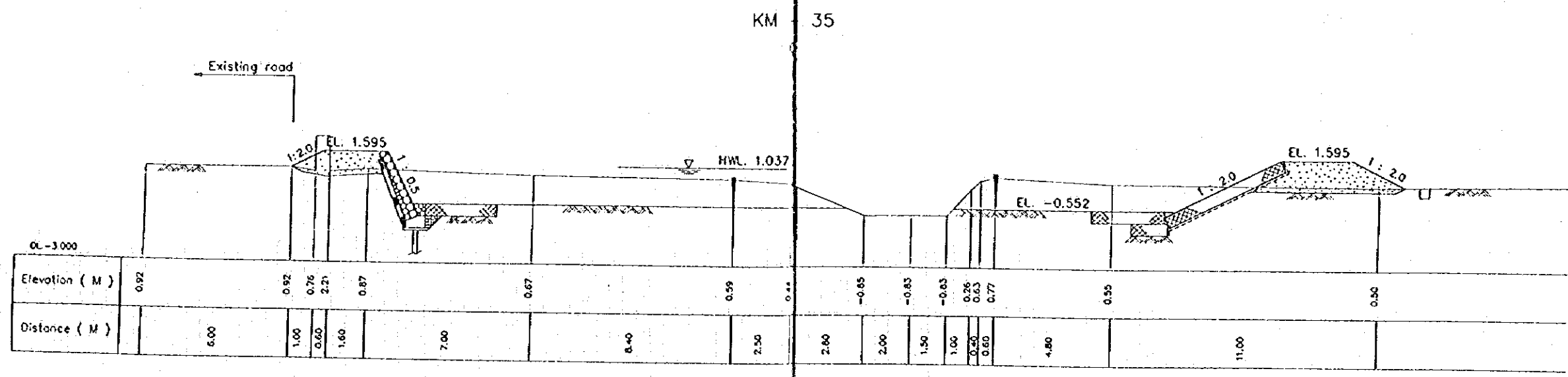
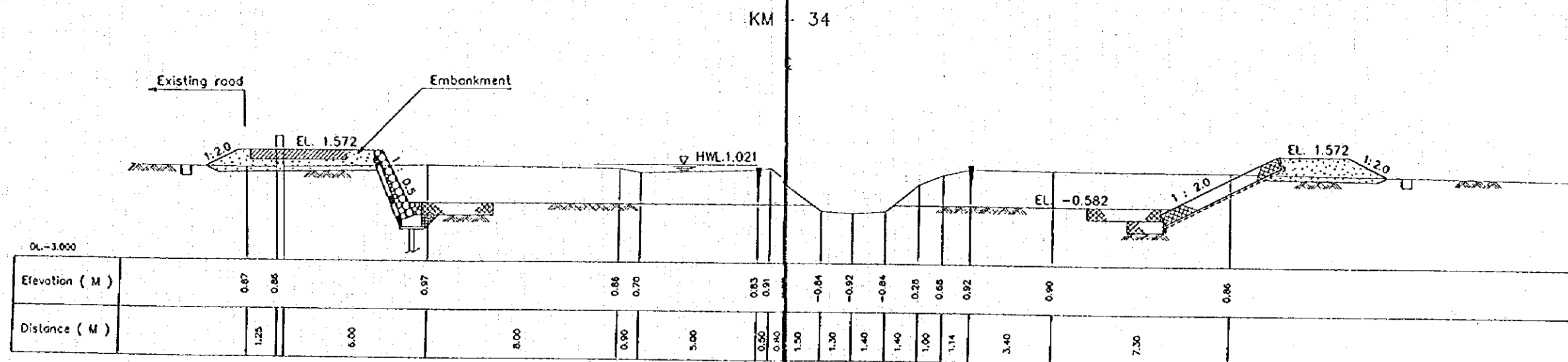
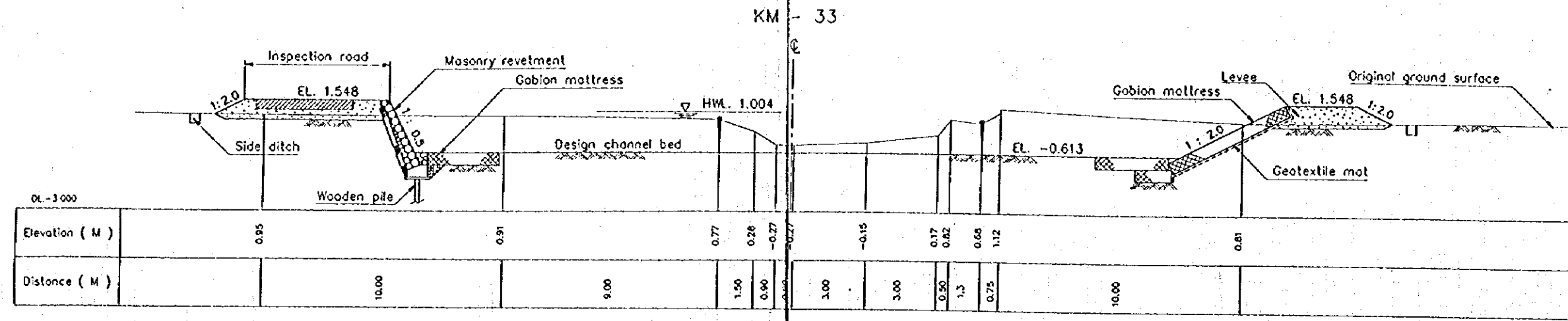
KM - 32



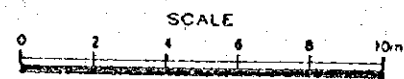
N.O.T.E :
Datum Level : Mean Sea Level (TTG)



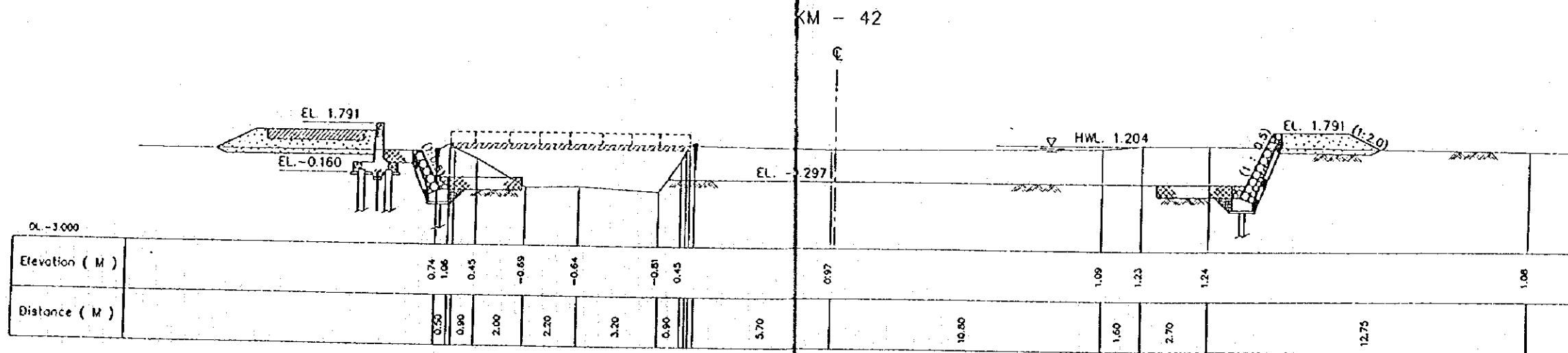
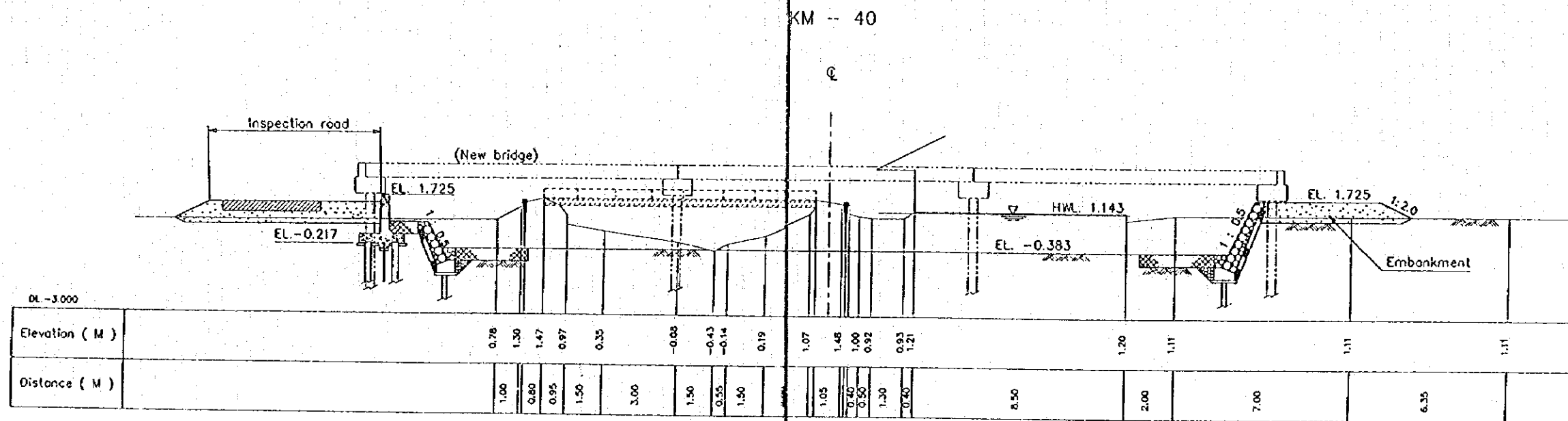
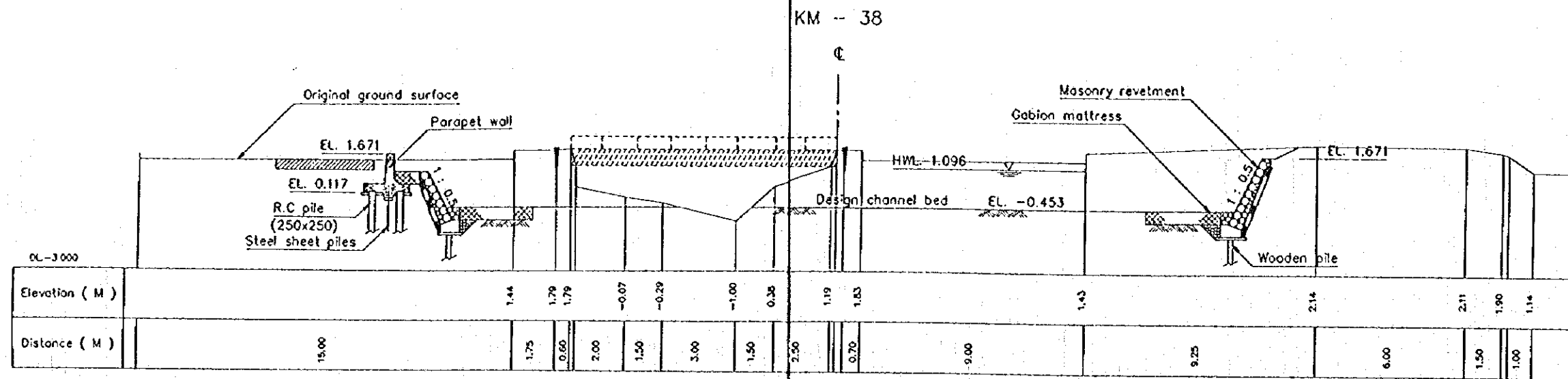
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (10/18) DWS NO. J-10-30-110	APPROVED
CHECKED			DATE
SUBMITTED			
DATE			
REFERENCE			DWG NO.



NOTE :
Datum Level : Mean Sea Level (TTG)



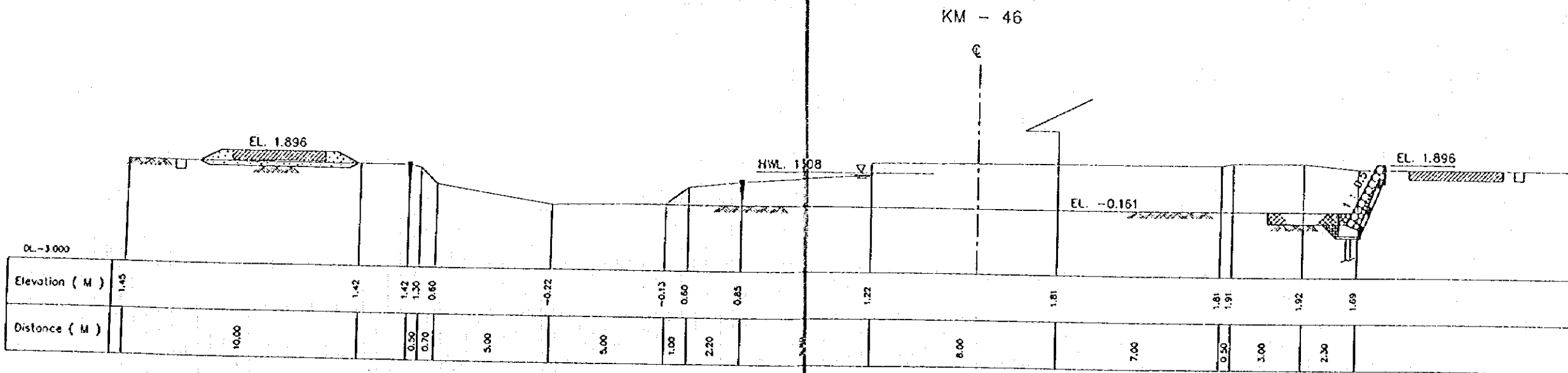
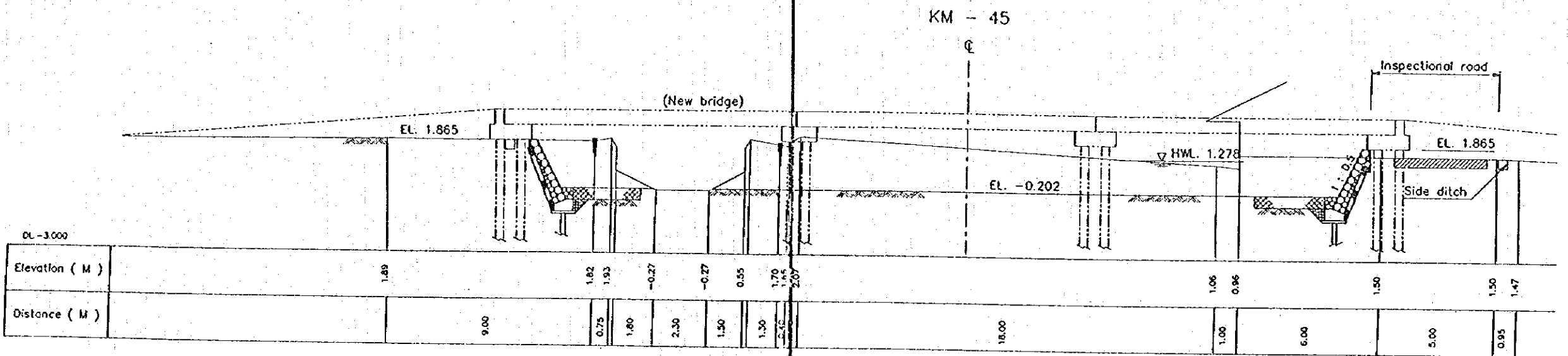
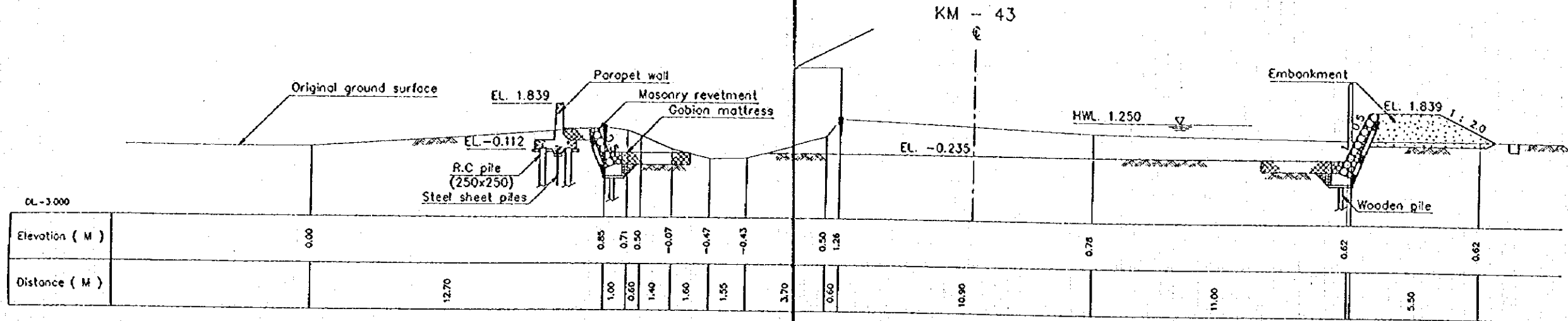
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED	
CHECKED		DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (11/16)		
SUBMITTED		DWG NO.		DATE
DATE		J-10-30-111		
REFERENCE		DWG NO.		



NOTE :
Datum Level : Mean Sea Level (TIG)



PREPARED	MINISTRY OF PUBLIC WORKS	TITLE OF DRAWING	APPROVED
CHECKED	DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	DRAINAGE CHANNEL, CROSS SECTION,	
SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY	KAWAL DRAINAGE CHANNEL (MAIN) (12/16)	
DATE	THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT	DWG NO.	DATE
REFERENCE	IN THE CITY OF JAKARTA	J-10-30-112	

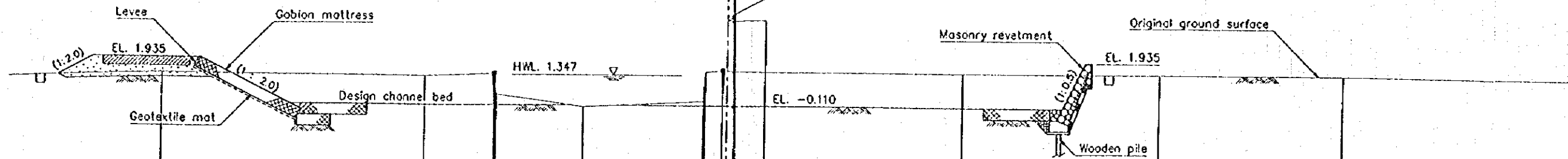


NOTE:
Datum Level: Mean Sea Level (ITG)



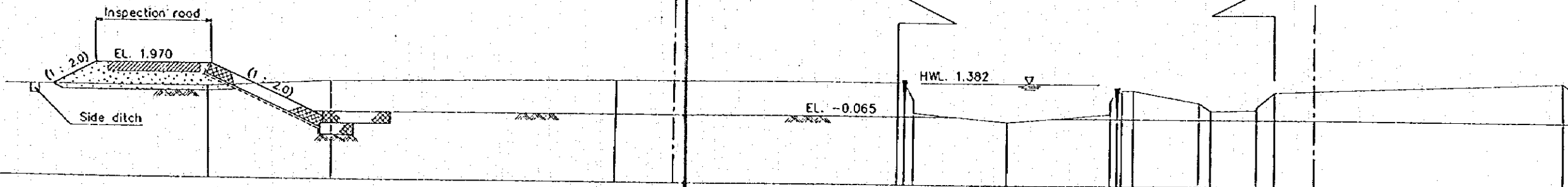
PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (13/10) DWG NO. J-10-30-113	APPROVED
CHECKED				DATE
SUBMITTED				
DATE				
REFERENCE	DWG. NO.			

KM 47



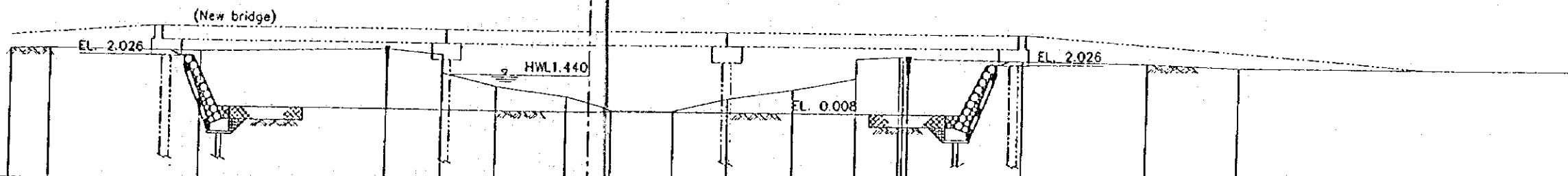
DL-3.000											
Elevation (M)	1.23	1.18	1.29	-0.19	0.09	1.48	1.43	1.44	1.44	1.44	1.44
Distance (M)		12.00	3.15	4.00	5.50	0.80	1.48	9.00	9.00	6.35	1.44

KM 48



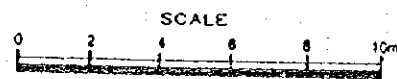
DL-3.000															
Elevation (M)		1.28	1.40		1.40	0.62	-0.27	0.10	1.12	0.61	0.27	0.32	1.09	1.61	1.28
Distance (M)		5.30	12.50		12.50	0.40	4.00	4.50	0.50	2.80	0.50	2.00	0.60	12.50	0.50

KM 50

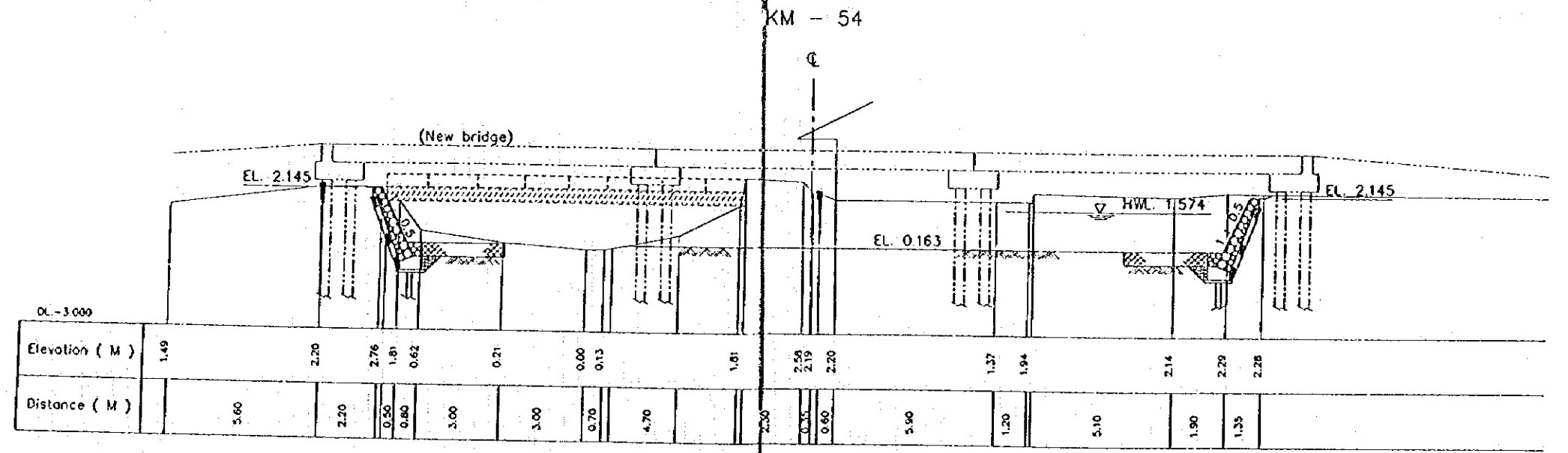
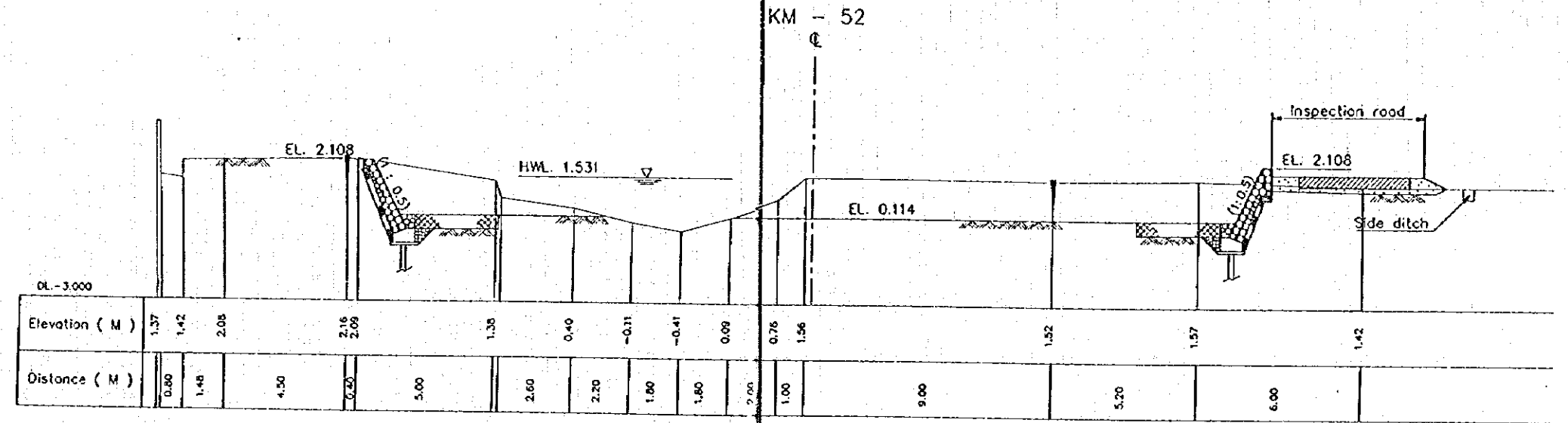
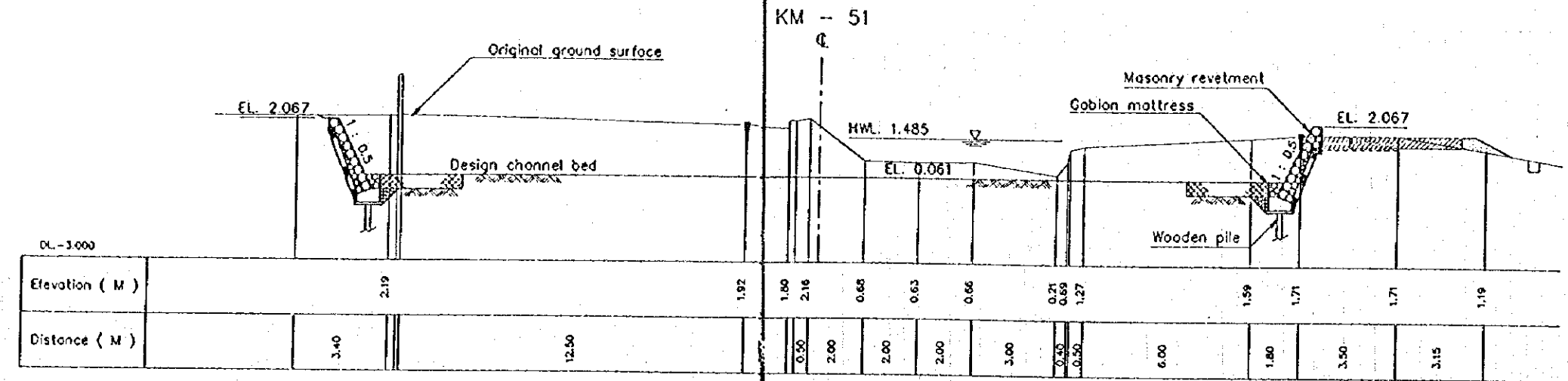


DL-3.000															
Elevation (M)	2.24	2.72	2.39	2.21	0.87	0.61	0.00	0.06	0.57	0.95	1.43	2.62	2.18	2.08	1.93
Distance (M)	1.60	6.00	7.50	2.30	2.20	2.80	2.00	2.50	2.20	2.80	2.50	1.70	4.50	5.00	3.55

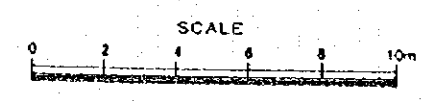
NOTE : Datum Level : Mean Sea Level (TIG)



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 CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (14/18)	APPROVED
CHECKED			OWG NO.		DATE
SUBMITTED			J-10-30-114		
DATE					
REFERENCE	DWG. NO.				

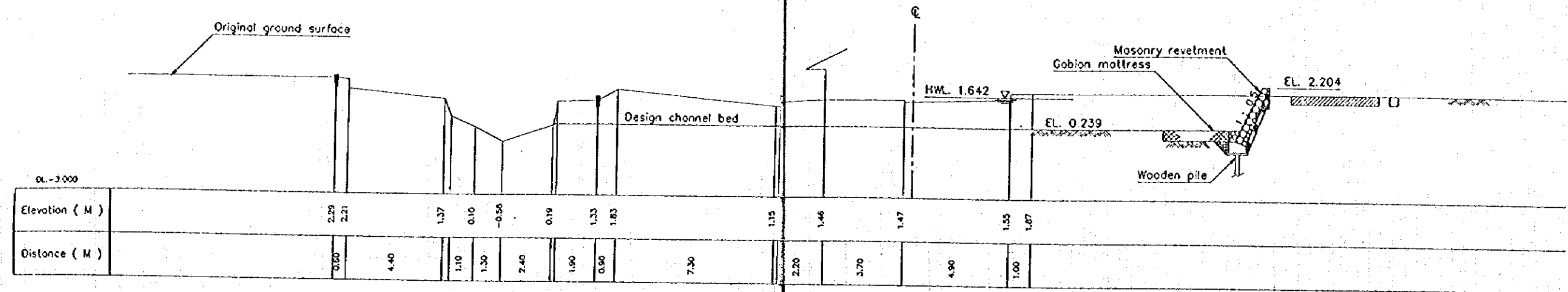


NOTE :
Datum Level : Mean Sea Level (ITG)

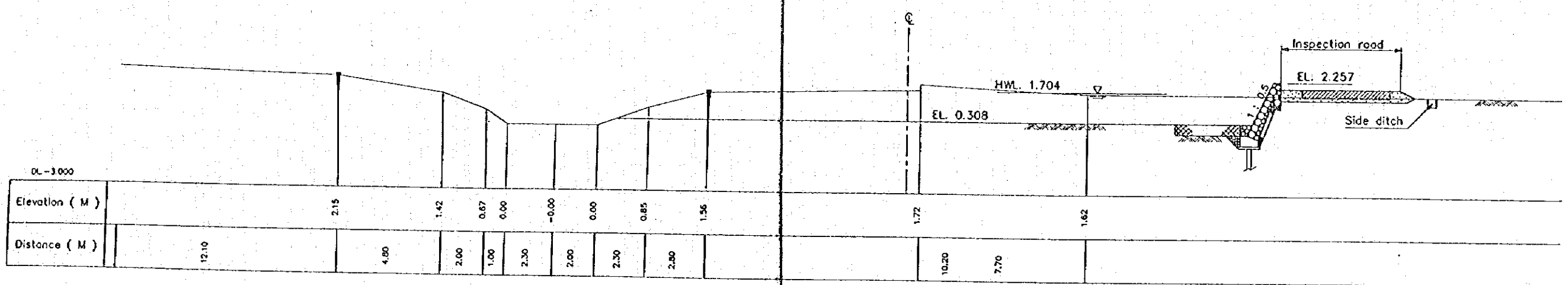


PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (15/18)	APPROVED
CHECKED		OWG NO.		DATE
SUBMITTED		J-10-30-115		
DATE				
REFERENCE		OWG NO.		

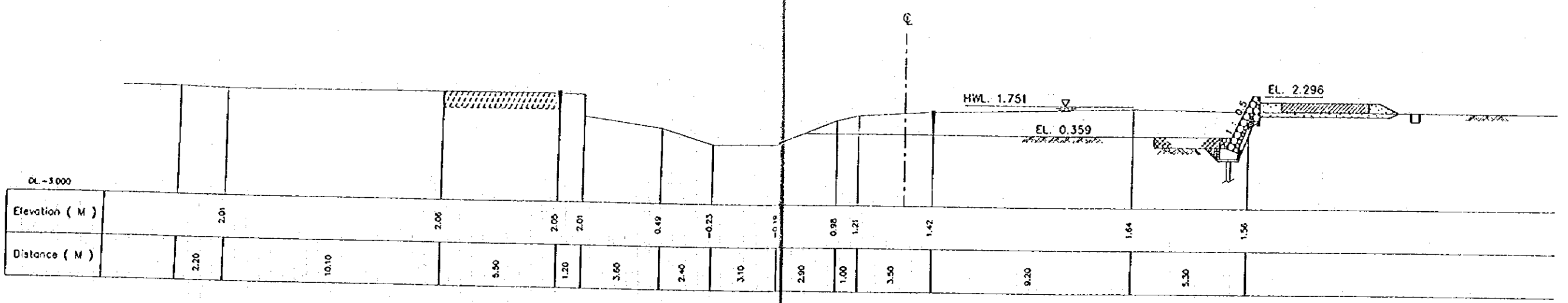
KM - 55



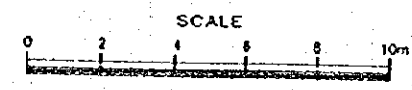
KM - 56



KM - 57

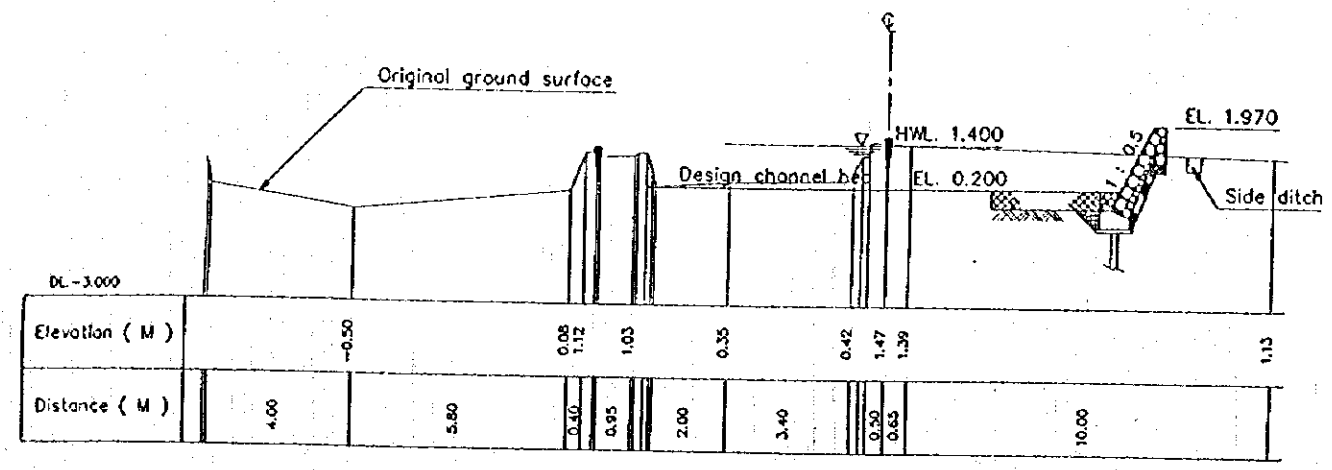


NOTE:
Datum Level : Mean Sea Level (ITG)

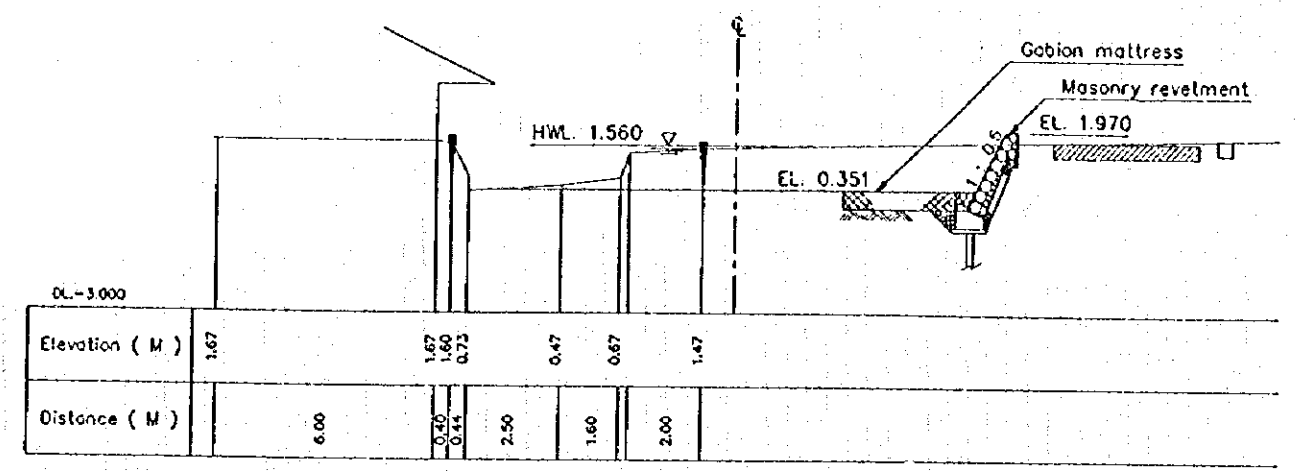


PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (MAIN) (16/16)	APPROVED
CHECKED.....		DWG NO.	DATE
SUBMITTED.....		J-10-30-116	
DATE.....			
REFERENCE		DWG NO.	

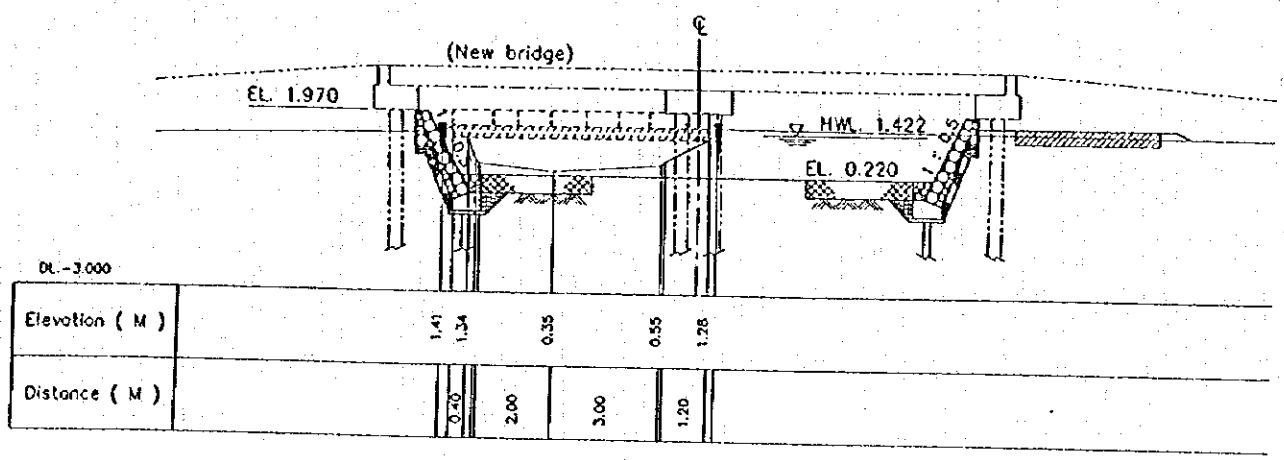
KE - 00



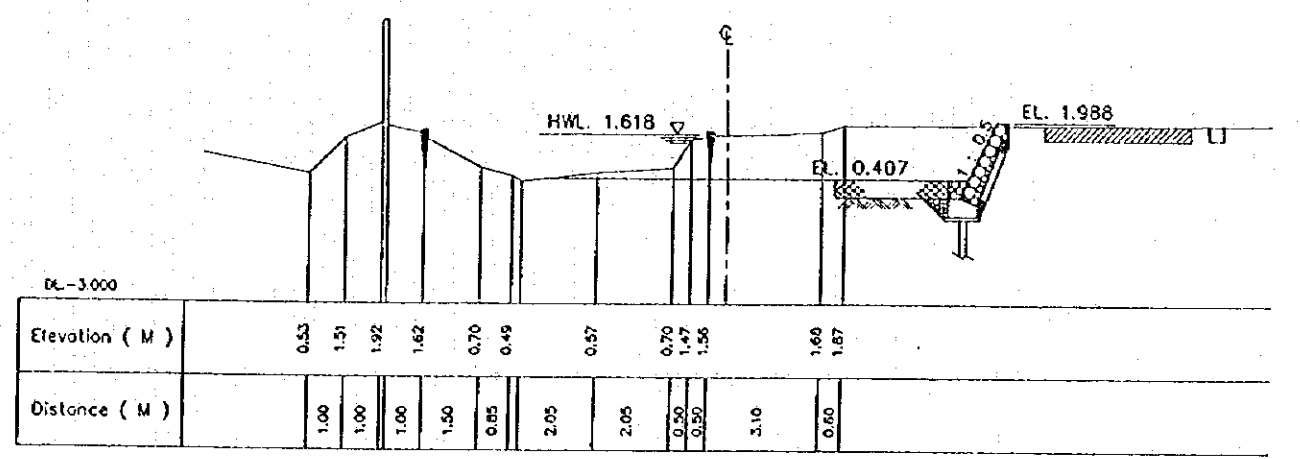
KE - 03



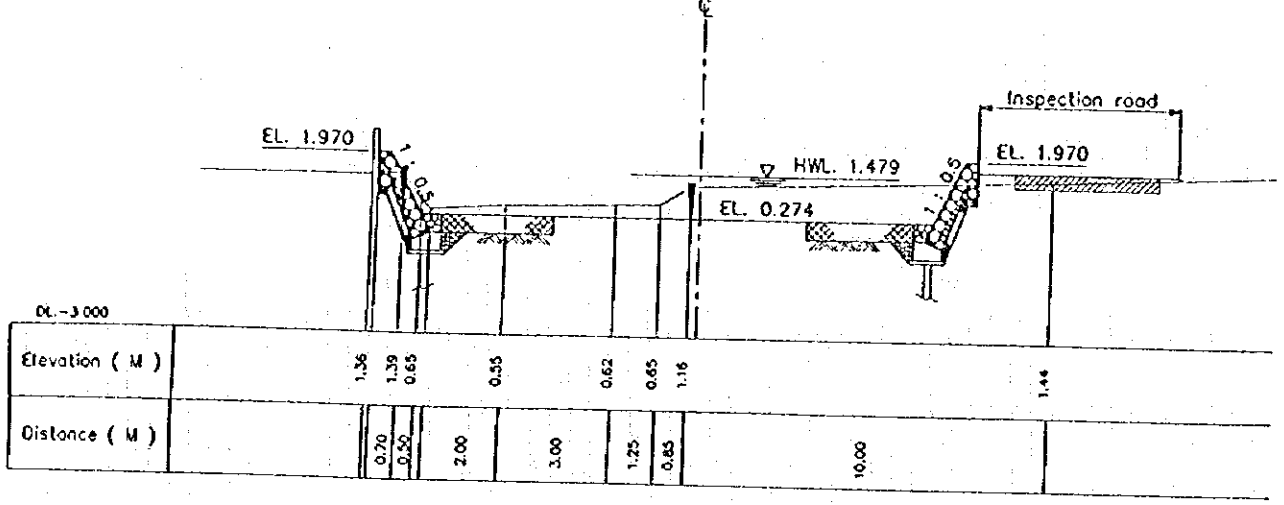
KE - 01



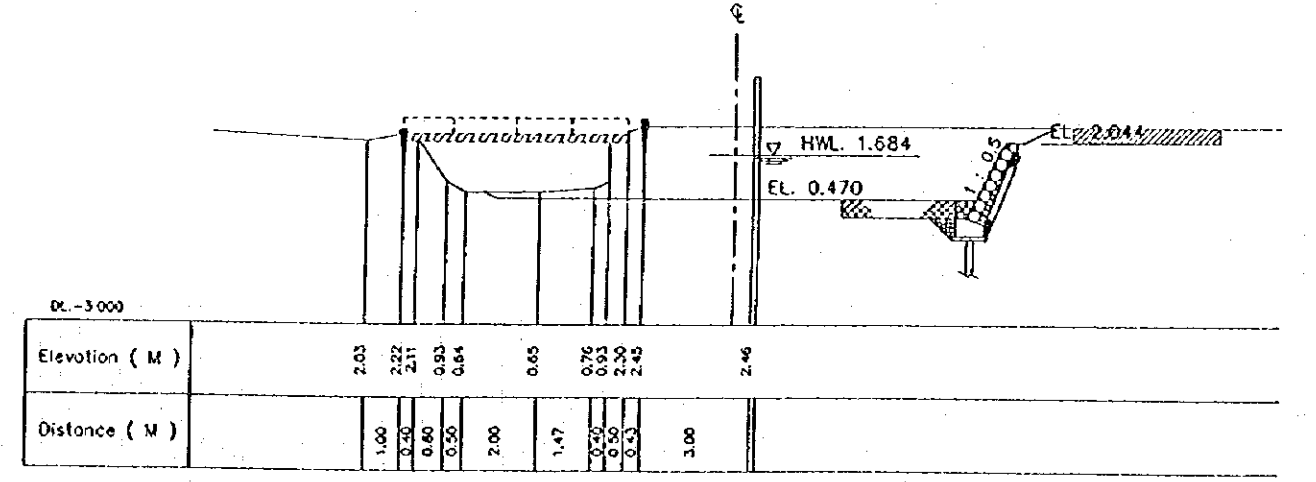
KE - 04



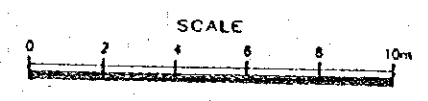
KE - 02



KE - 07

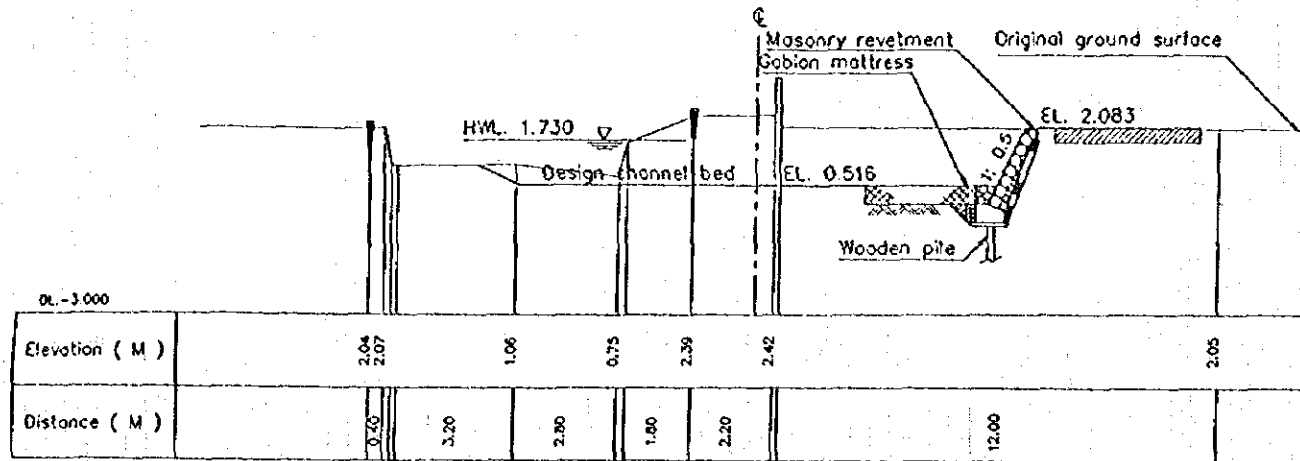


NOTE :
Datum Level : Mean Sea Level (TTC)

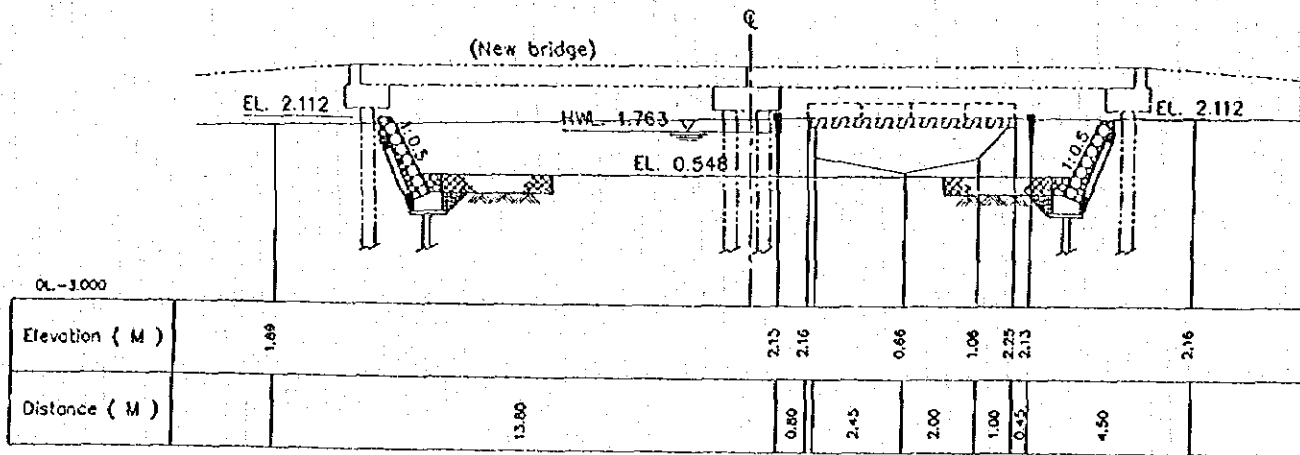


PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED			DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (BRANCH) (1/3)	
SUBMITTED			DWG NO.	DATE
DATE			J-10-30-201	
REFERENCE	DWG NO.			

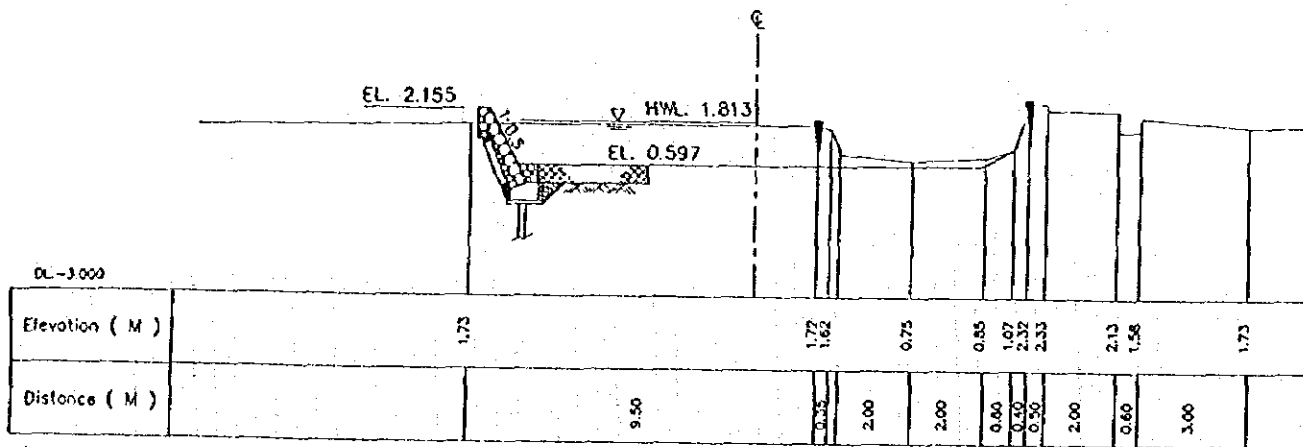
KE - 08



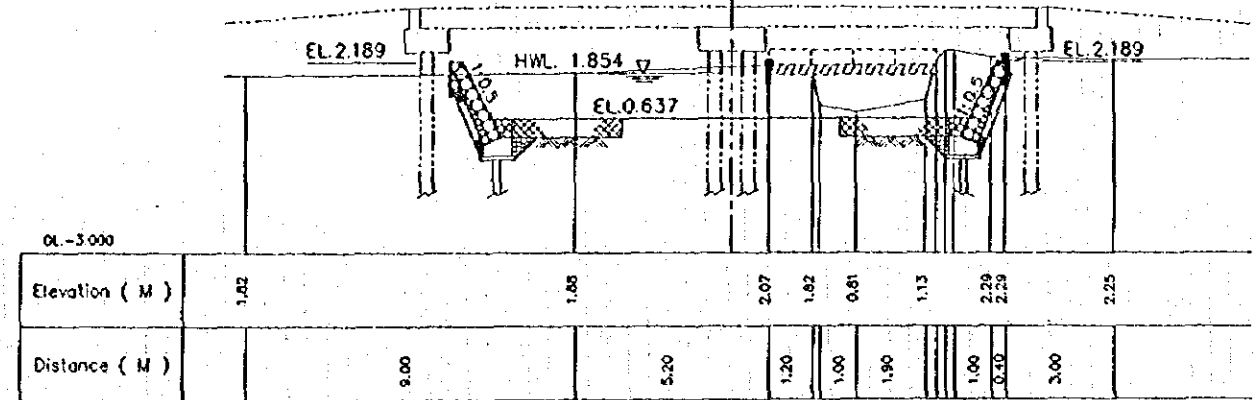
KE - 10



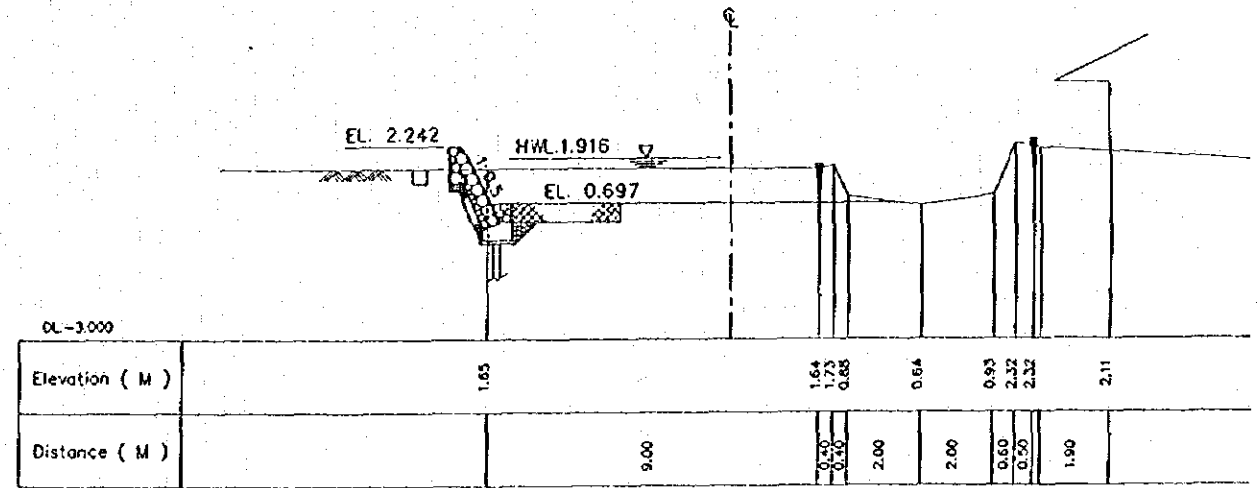
KE - 11



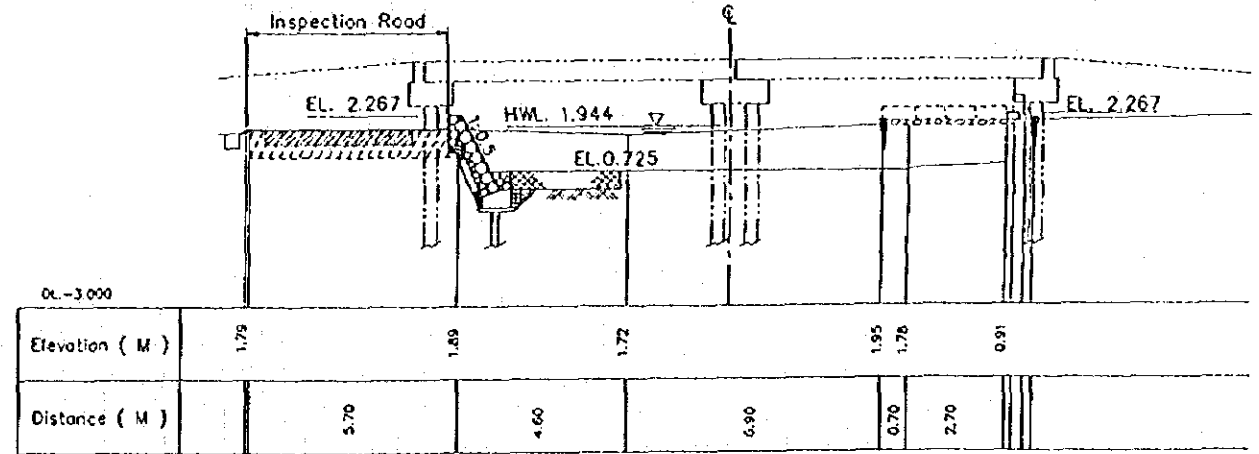
KE - 12



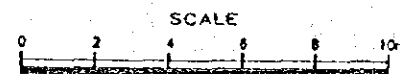
KE - 13



KE - 14

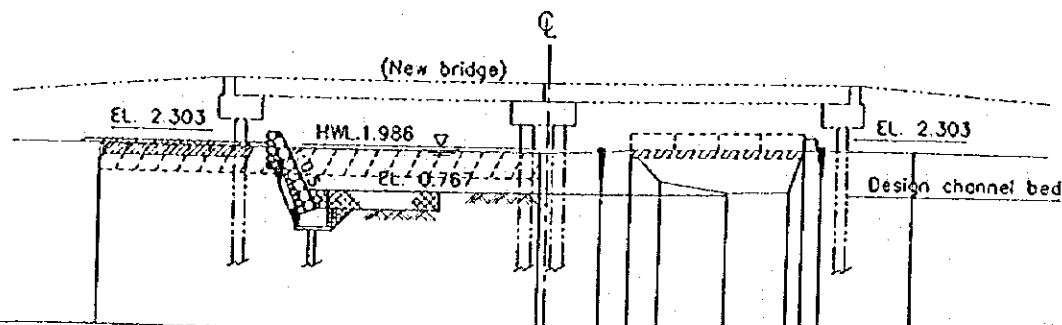


N.O.T.E :
Datum Level : Mean Sea Level (TTG)



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 CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (BRANCH) (2/5)	APPROVED
CHECKED.....		OWG NO.	DATE
SUBMITTED.....		J-10-30-202	
DATE.....			
REFERENCE	D/W NO.		

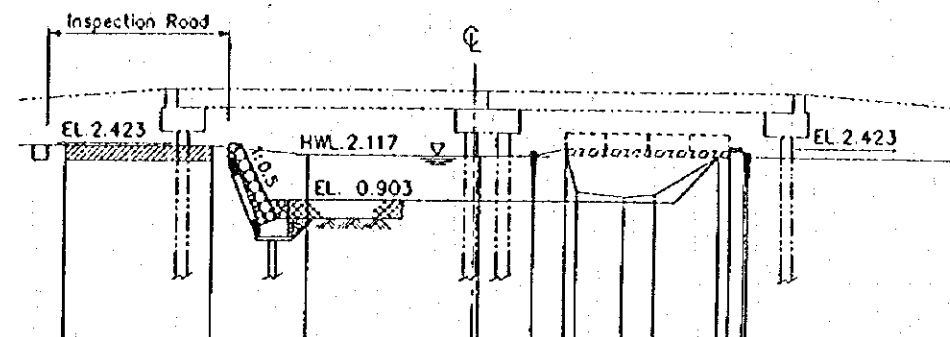
KE - 15



DL - 3.000

Elevation (M)	1.92	1.87	1.91	1.77	1.13	0.84	0.85	2.05	1.96	1.97
Distance (M)		12.00	1.70	0.80	0.80	1.80	1.70	0.30	0.30	2.60

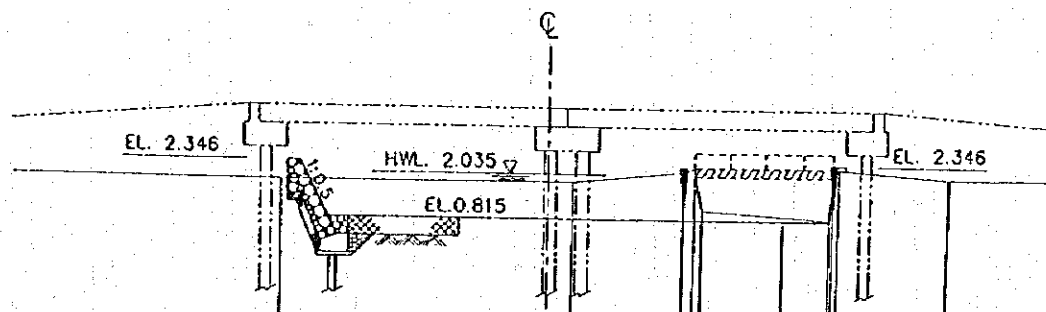
KE - 18



DL - 3.000

Elevation (M)		2.36	2.14	2.11	2.15	2.23	1.04	1.12	2.18	2.34
Distance (M)		2.60	4.60	1.50	0.90	1.25	0.85	1.75	0.50	

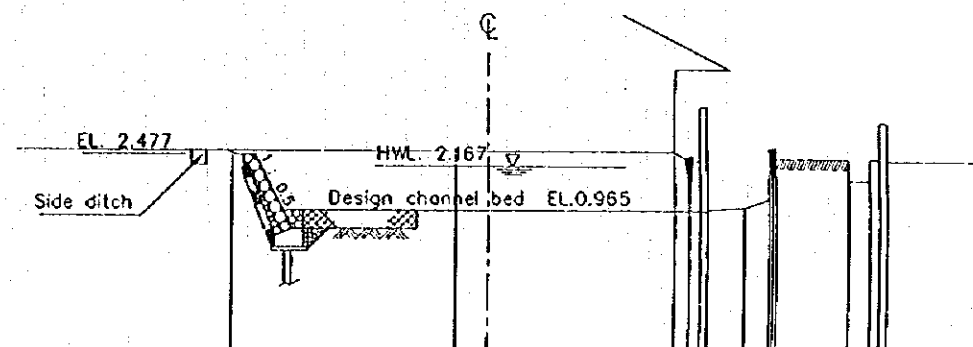
KE - 16



DL - 3.000

Elevation (M)	1.82	1.83	2.01	0.94	0.86	2.02
Distance (M)		4.00	3.00	2.20	1.30	3.10

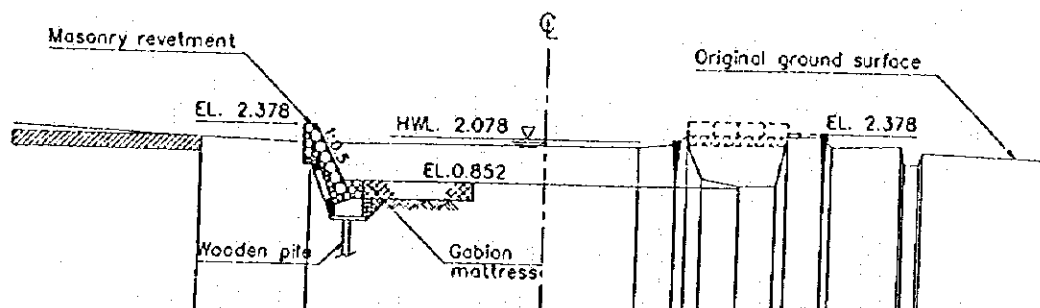
KE - 19



DL - 3.000

Elevation (M)	2.99	2.99	2.99	2.35	1.07	1.30	2.43	1.83
Distance (M)		6.00	6.00	0.30	1.00	0.70	2.00	0.60

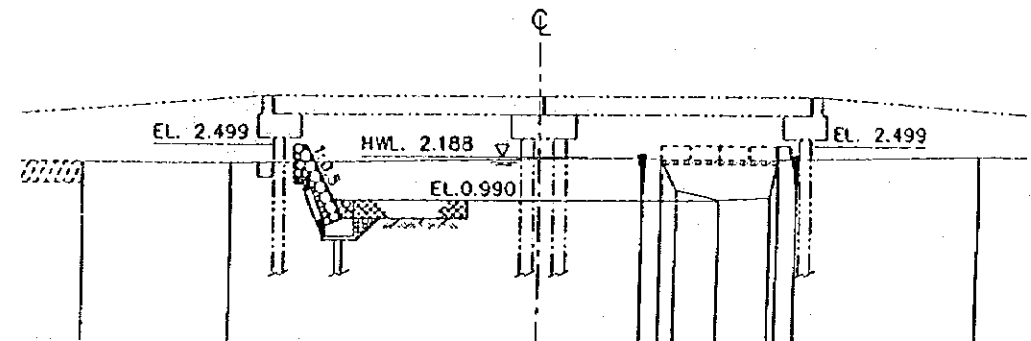
KE - 17



DL - 3.000

Elevation (M)	1.96	1.87	1.92	2.03	1.89	0.91	0.93	2.29	2.08	1.59
Distance (M)		3.00	9.00	1.00	0.30	1.00	1.00	1.00	2.00	0.30

KE - 20



DL - 3.000

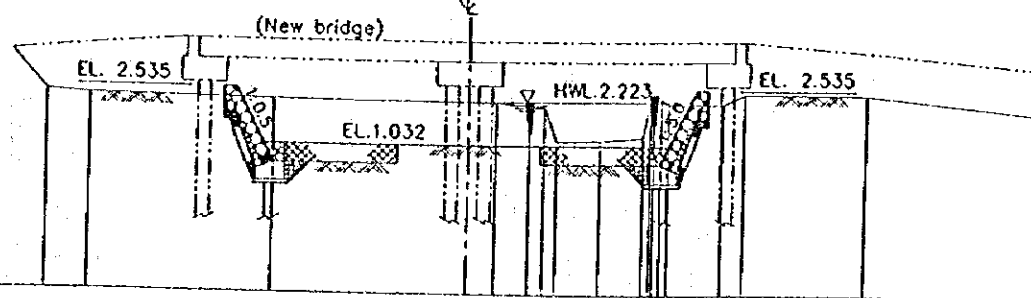
Elevation (M)	2.01	2.00	2.17	2.14	1.28	1.03	1.10	2.14	2.25
Distance (M)		4.00	11.20	0.50	0.30	1.15	1.40	0.50	5.00

NOTE : Datum Level : Mean Sea Level (ITG)



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			DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (BRANCH) (3/5)	
SUBMITTED			DWG NO.	DATE
DATE			J-10-30-203	
REFERENCE	DWG NO.			

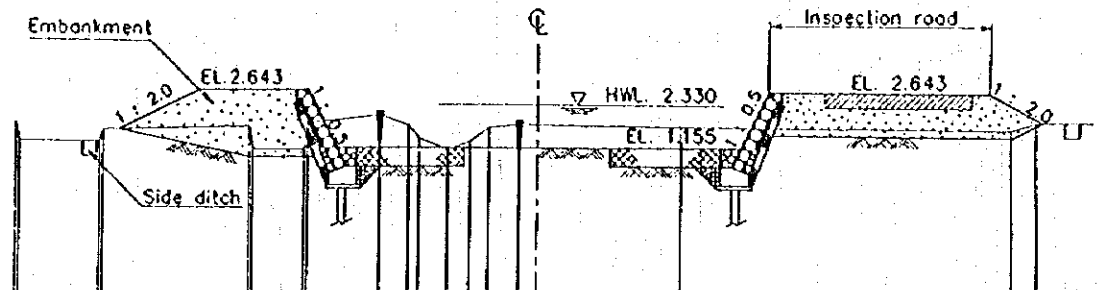
KE - 21



DL-3.000

Elevation (M)	2.39	2.50	2.25	2.19	2.12	2.08	1.16	1.18	1.27	2.16	2.44	2.43
Distance (M)	1.20	5.00	6.00	0.90	0.70	0.70	1.20	1.20	1.50	0.60	3.30	

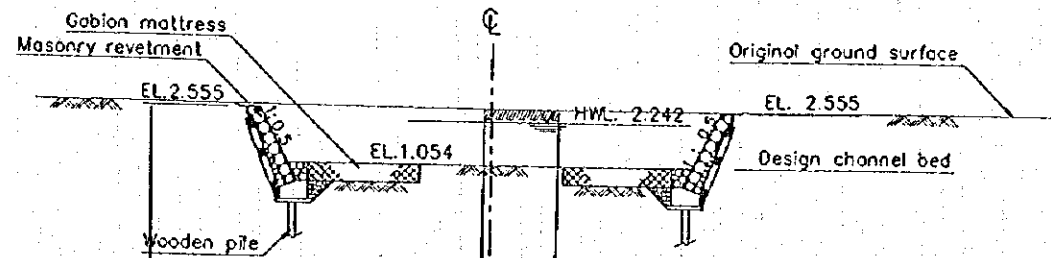
KE - 25



DL-3.000

Elevation (M)	1.79	1.29	1.75	1.12	2.06	1.79	1.12	1.35	1.72	1.81	1.75	1.76	1.97
Distance (M)	2.20	4.00	1.40	2.00	0.80	0.80	0.60	0.50	0.80	4.40	9.00	0.70	

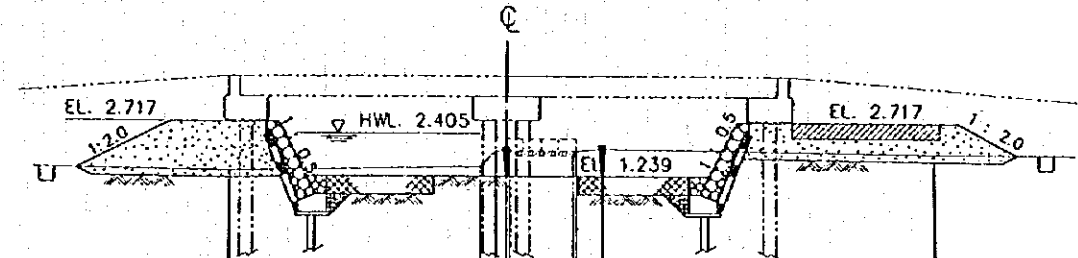
KE - 23



DL-3.000

Elevation (M)	2.67	2.61	2.61
Distance (M)	9.00	2.00	

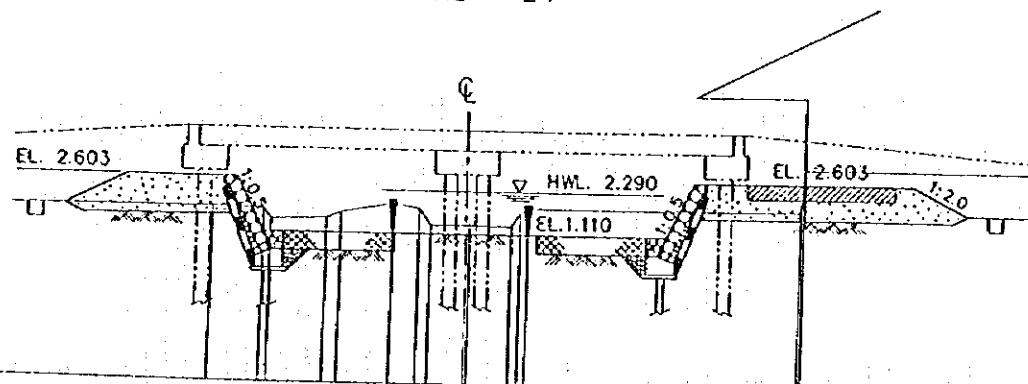
KE - 26



DL-3.000

Elevation (M)	1.40	1.52	1.89	1.24	2.00	1.90
Distance (M)	6.80	0.70	1.70	0.70	9.00	

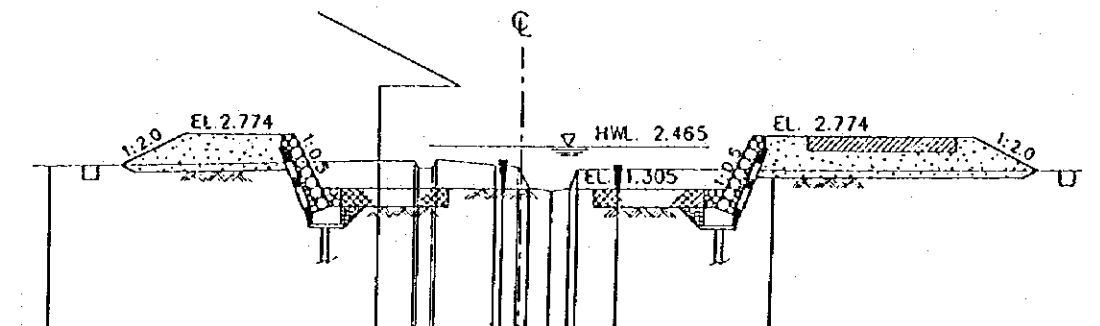
KE - 24



DL-3.000

Elevation (M)	1.80	1.76	1.53	1.76	1.95	1.82	1.38	1.35	1.86
Distance (M)	1.40	1.50	0.40	1.40	0.70	1.10	1.15	7.50	

KE - 27



DL-3.000

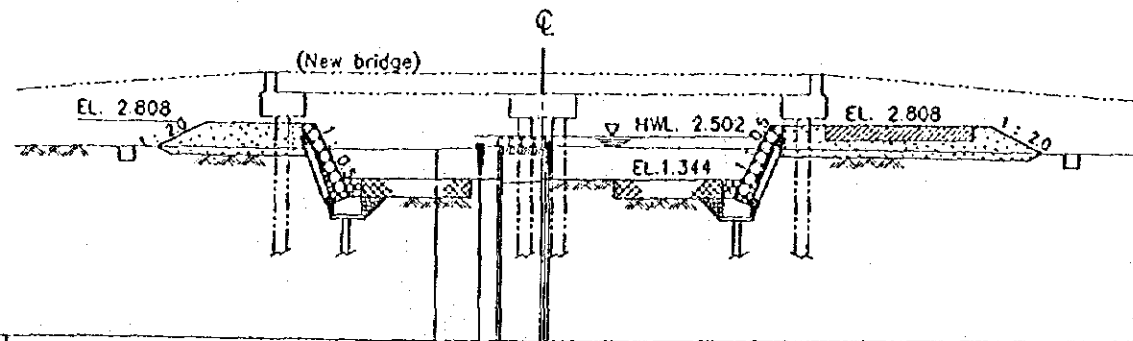
Elevation (M)	1.88	2.10	2.09	1.89	1.99	1.92	1.26	1.36	1.86	1.87
Distance (M)	9.00	1.00	0.40	1.60	0.40	0.60	0.50	1.10	4.20	

N.O.T.E :
Datum Level : Mean Sea Level (ITG)



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 CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (BRANCH) (4/5)	APPROVED
CHECKED		DWG NO.		DATE
SUBMITTED		J-10-30-204		
DATE				
REFERENCE	DWG NO.			

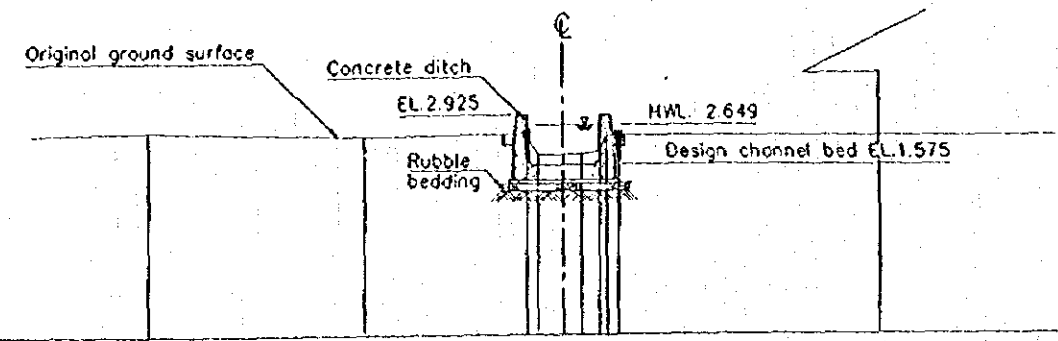
KE - 28



DL-3.000

Elevation (M)		2.17	2.22	2.26	1.33
Distance (M)		1.20	0.50	1.10	

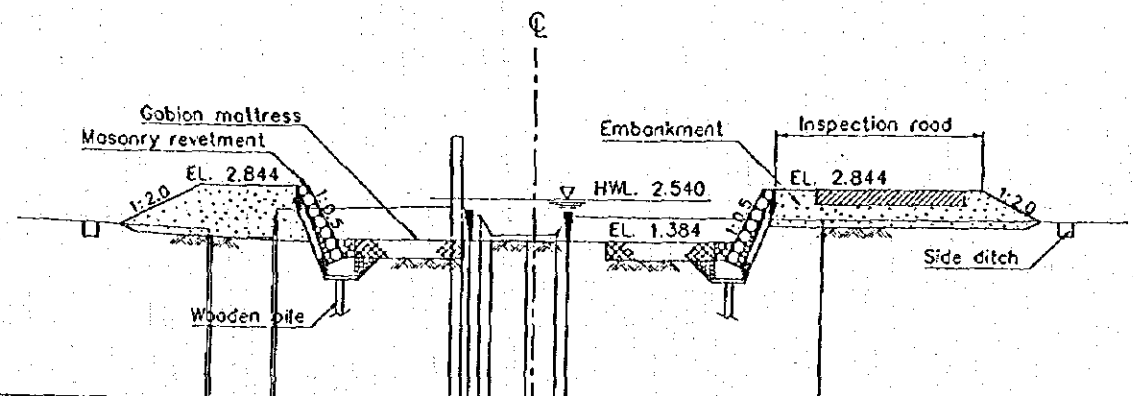
KE - 31



DL-3.000

Elevation (M)		2.34	2.38	2.45	1.88	1.98		2.40
Distance (M)			5.90	4.50	1.20	0.50	7.10	

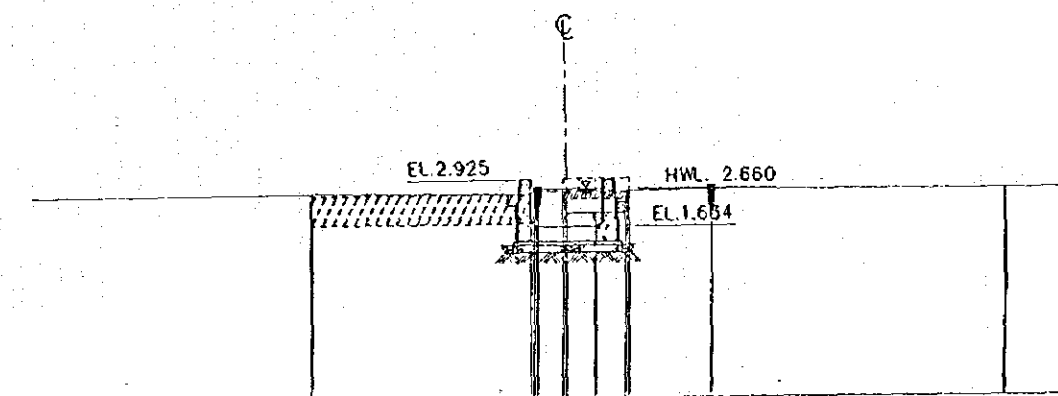
KE - 29



DL-3.000

Elevation (M)		1.62	1.45	2.36	1.58	1.62		2.05
Distance (M)		1.70	4.80	1.00	0.80	7.00		

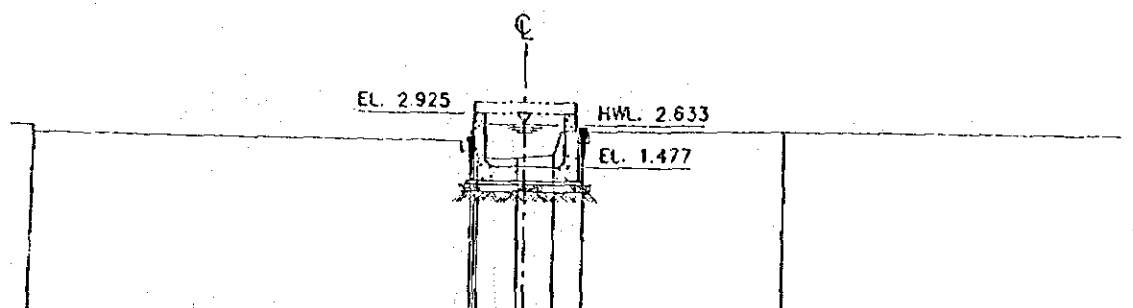
KE - 32



DL-3.000

Elevation (M)		2.63	2.56	2.62	2.04	2.04	2.66	2.67
Distance (M)		6.00	0.70	0.80	0.80	2.20	8.00	

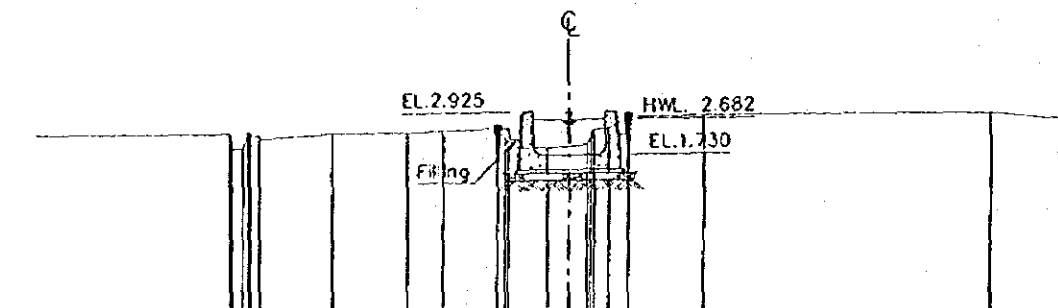
KE - 30



DL-5.000

Elevation (M)	2.46		2.21	1.74	1.85	2.49		2.51
Distance (M)		12.10	1.10	1.00	0.50	5.90		

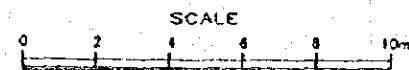
KE - 33



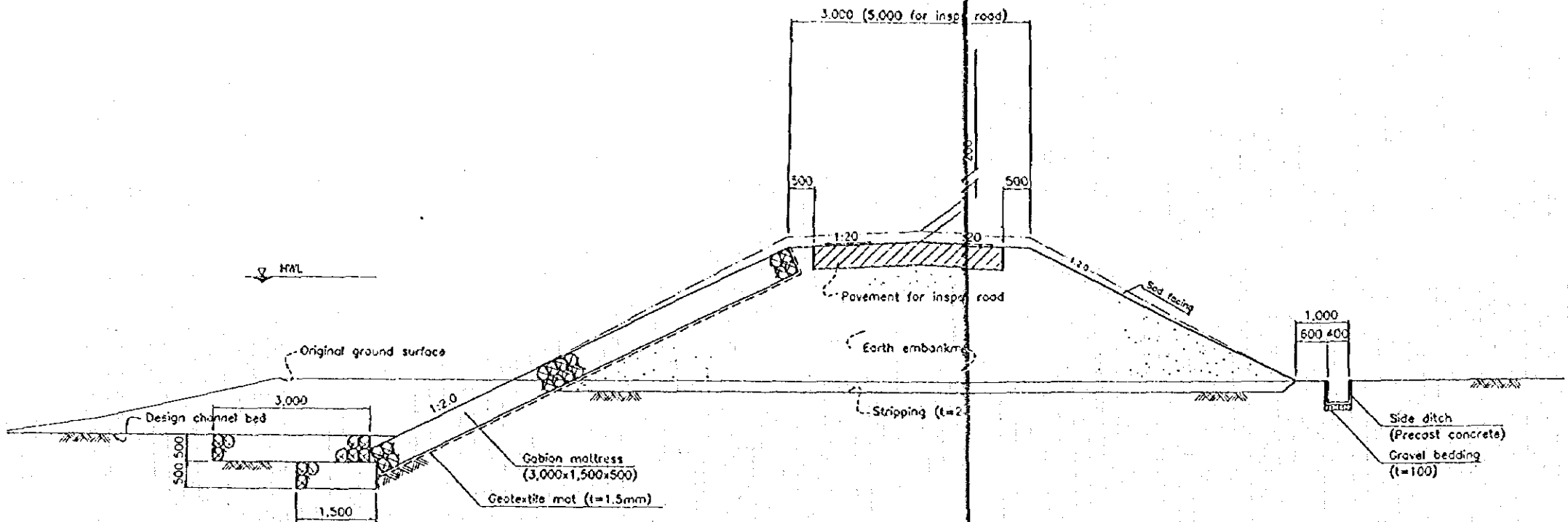
DL-3.600

Elevation (M)		2.47	2.44	2.43	2.46	2.51	1.97	2.05	2.49	2.81	2.82		2.81
Distance (M)			2.00	2.00	1.00	1.50	1.10	1.10	0.40	0.52	2.00	7.80	

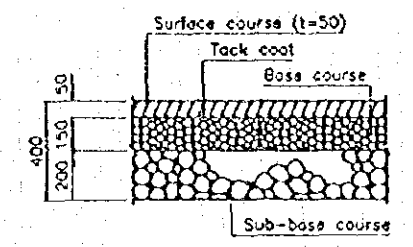
NOTE :
Datum Level : Mean Sea Level (TTG)



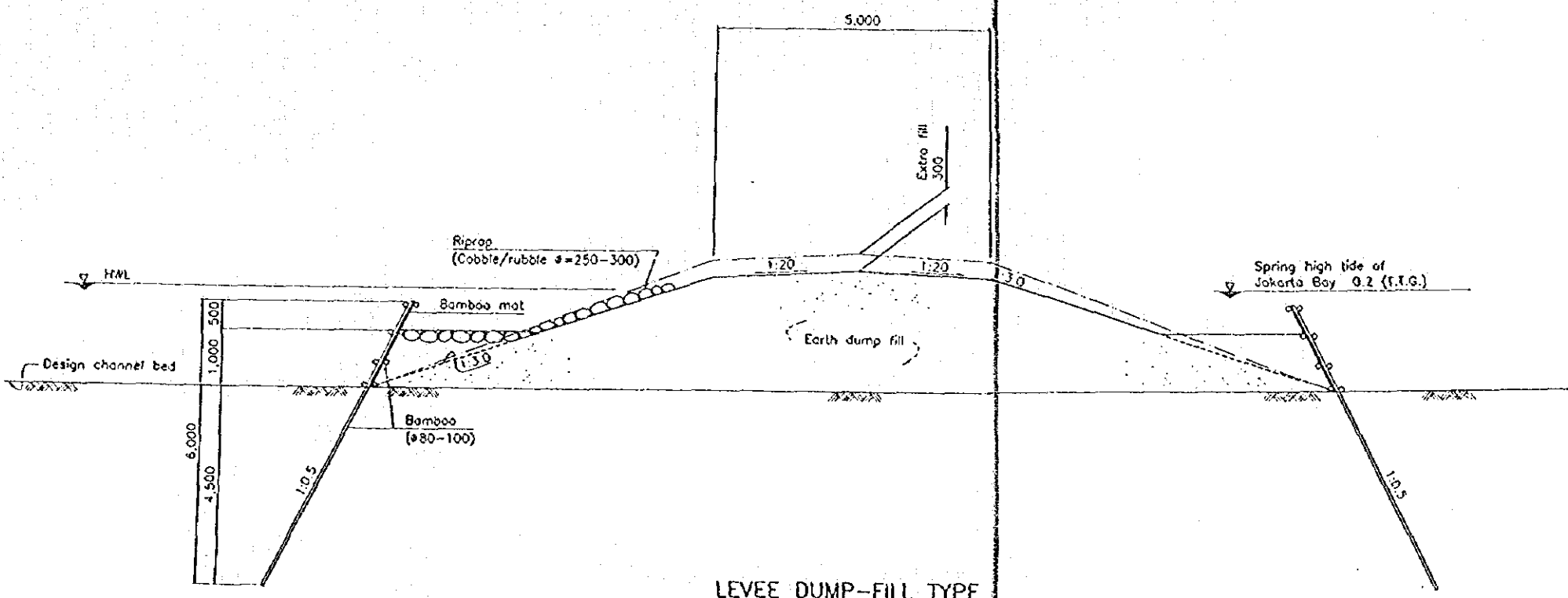
PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	DRAINAGE CHANNEL, CROSS SECTION, KAMAL DRAINAGE CHANNEL (BRANCH) (5/5) DWG NO. J-10-30-205	APPROVED
CHECKED			DATE		
SUBMITTED					
DATE					
REFERENCE	DWG NO.				



LEVEE EARTH TYPE

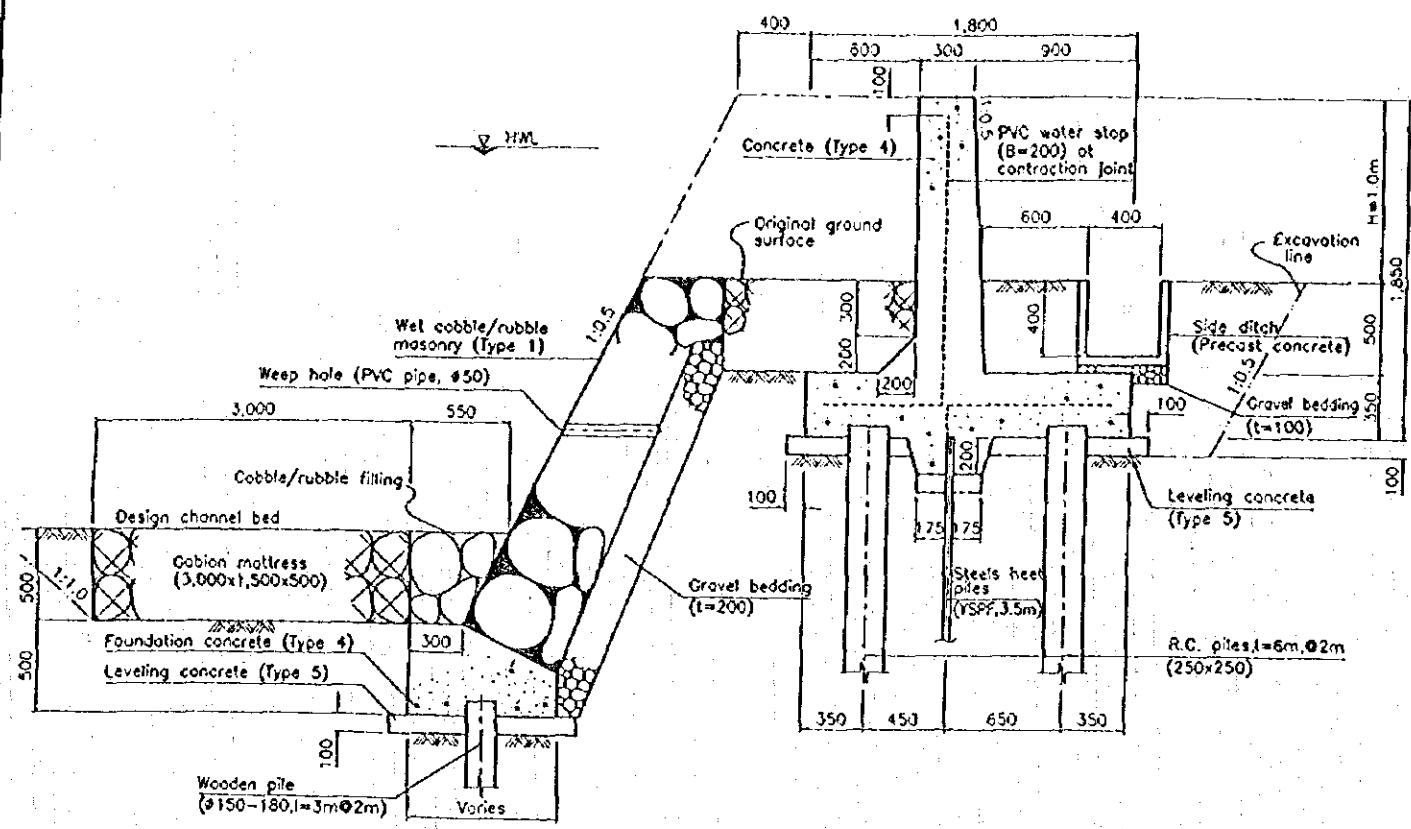


PAVEMENT

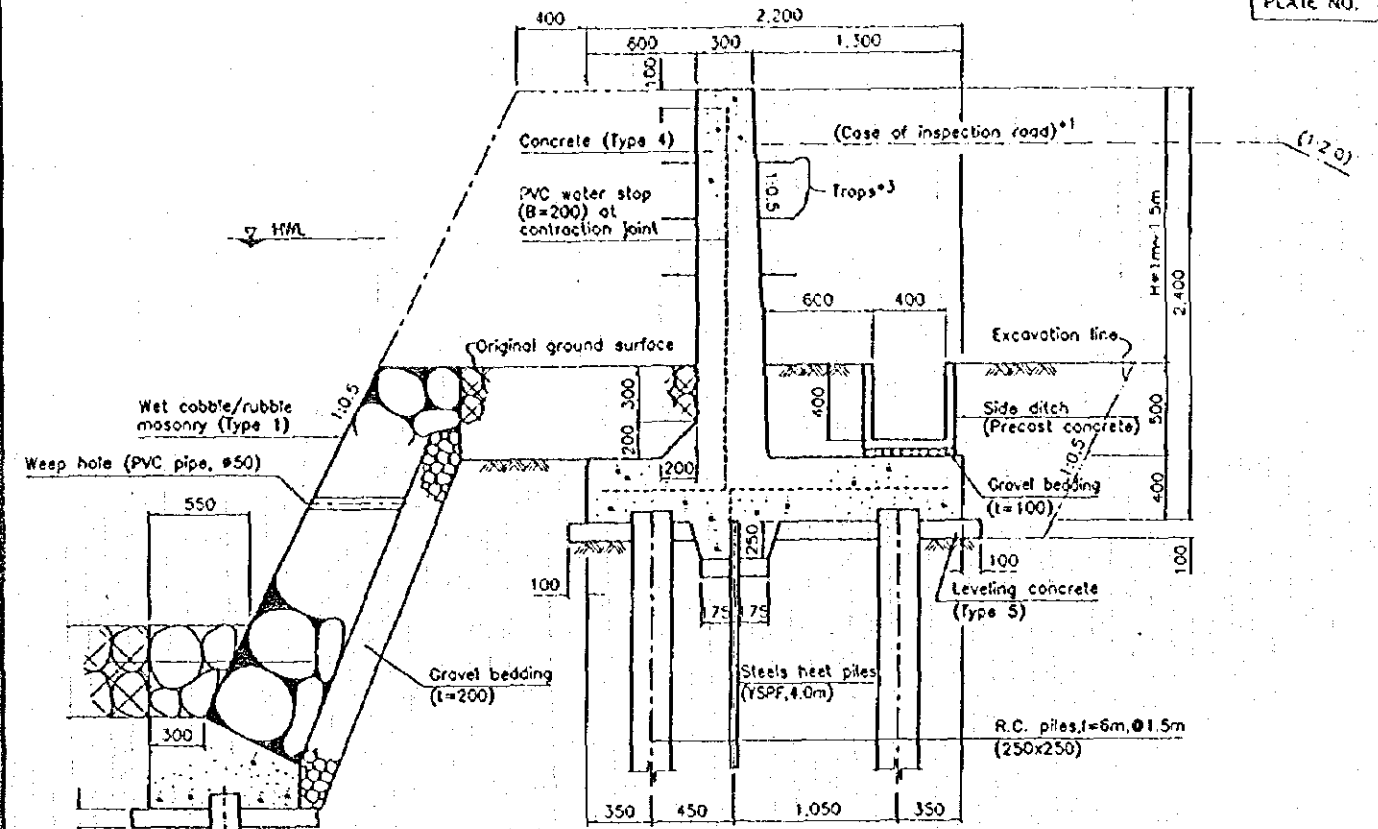


LEVEE DUMP-FILL TYPE

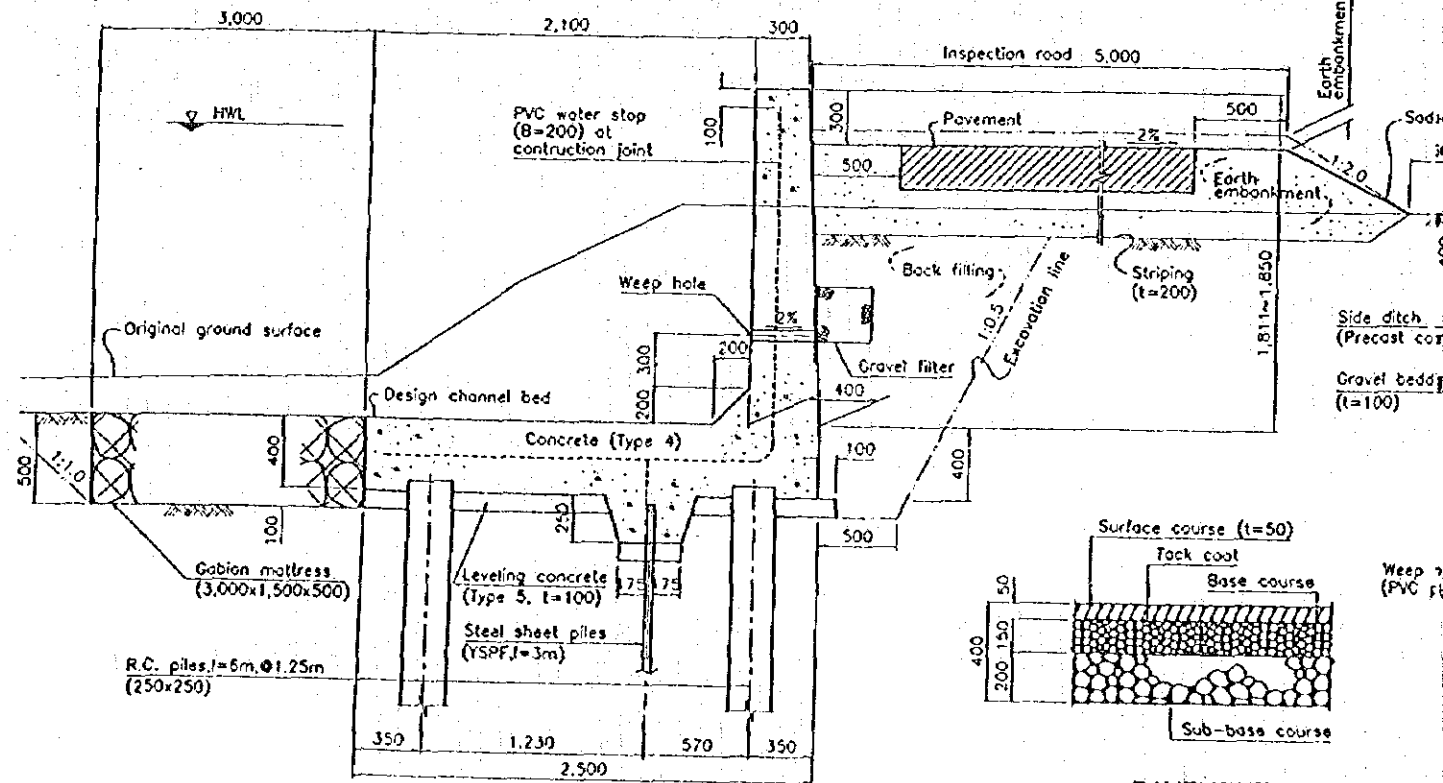
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED.....		CHANNEL STRUCTURES, LEVEE, TYPICAL CROSS SECTIONS	
SUBMITTED.....		OWG NO.	DATE
REFERENCE		J-20-10-001	
OWG NO.			



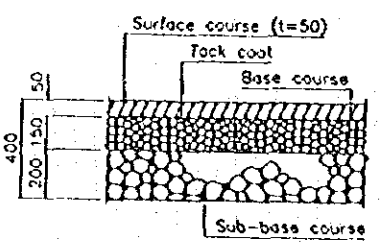
REVERSE T-TYPE WALL (Wall Height H=1/m)



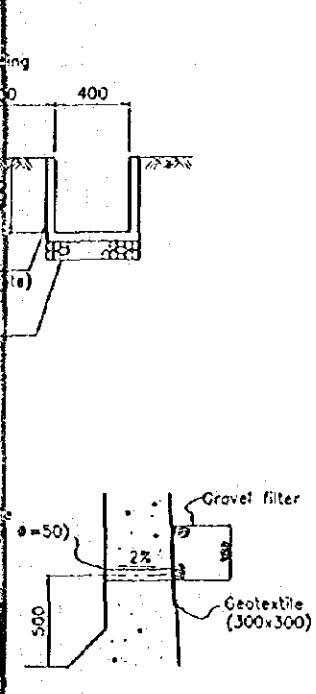
REVERSE T-TYPE WALL (H=1m~1.5m)



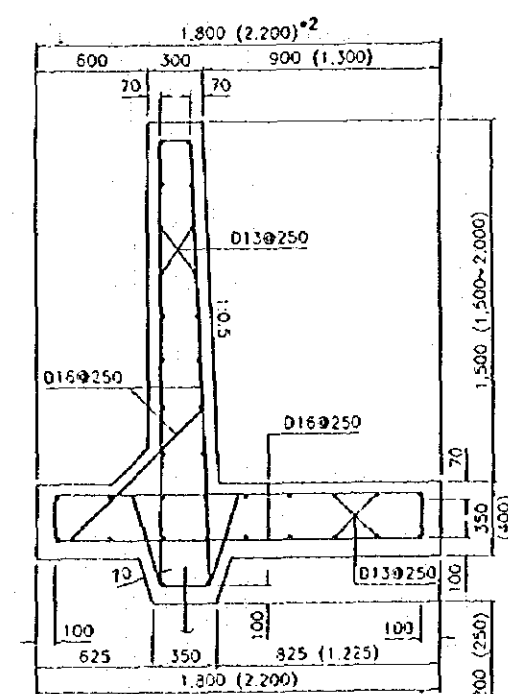
L-TYPE WALL



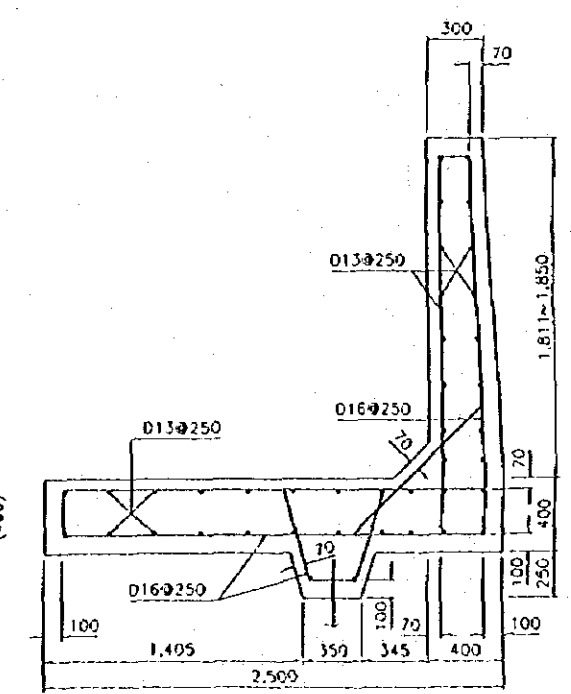
PAVEMENT



WEEP HOLE



REVERSE T-TYPE WALL

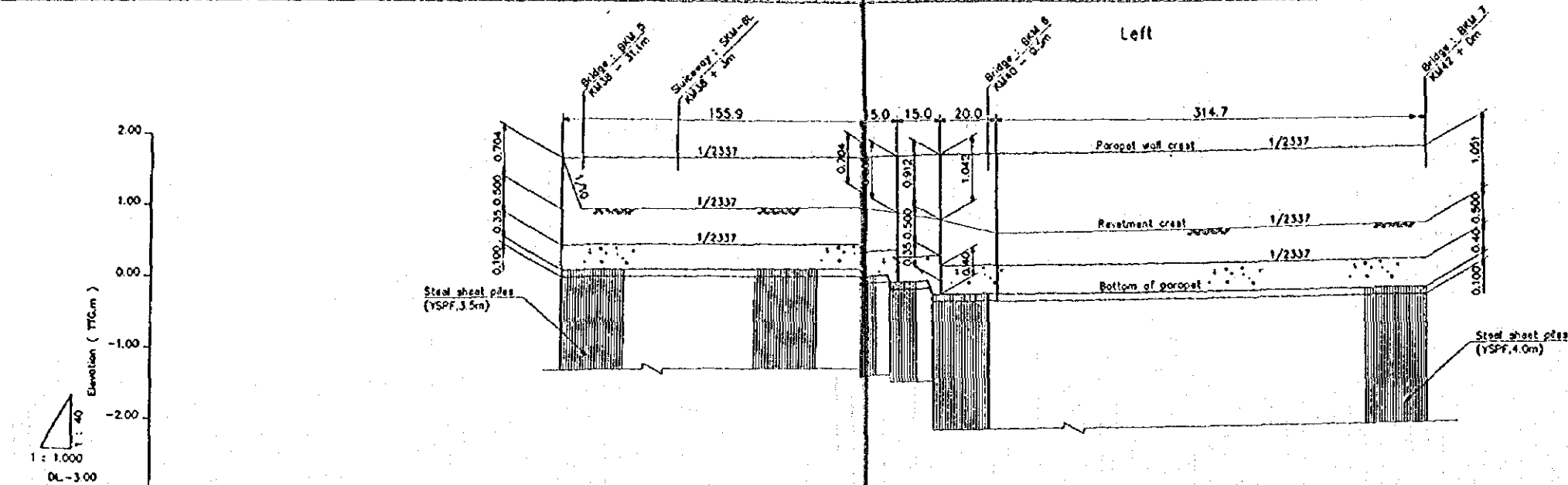


L-TYPE WALL

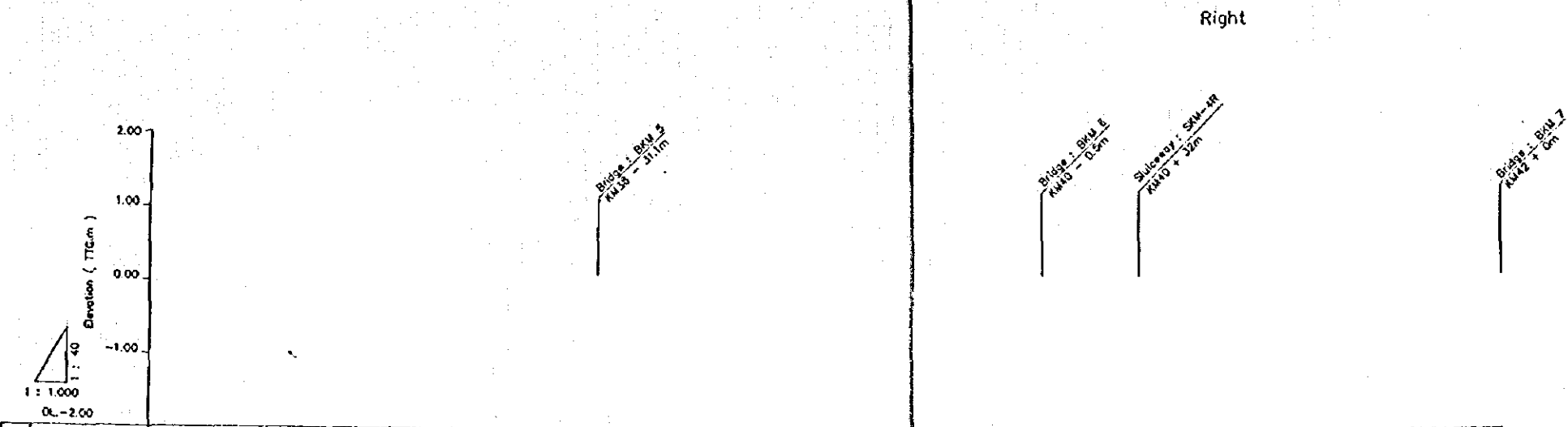
REINFORCING BAR ARRANGEMENT

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

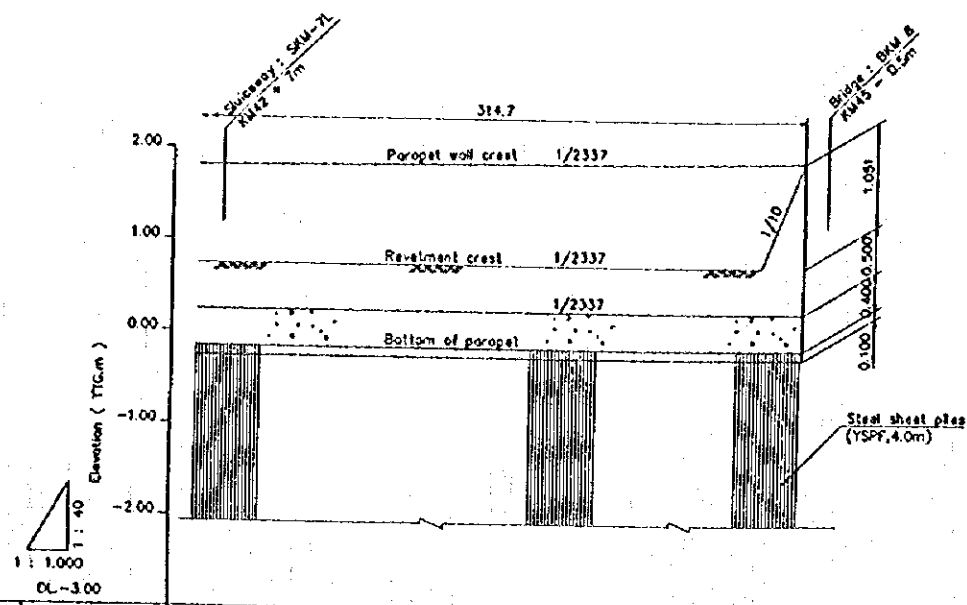


Design Elevation (m)	Parapet Wall Crest		1.655	1.671	1.711	1.717	1.725	1.728	1.791
	Bottom of Parapet		0.101	0.117	0.053	0.051	0.045	0.025	-0.160
Type	Inverted T-type								
Cumulative - Distance (m)	2022.7	2963.3	3001.1	3094.2	3109.2	3126.7	3129.2	3281.6	
Distance (m)		140.6	38.4	78.1	15.0	15.0	17.5	152.4	
Cross Section No.	KM35	KM35+140.6	KM38	KM38+93.1	KM38+108.1	KM40	KM40+2.5	KM42	

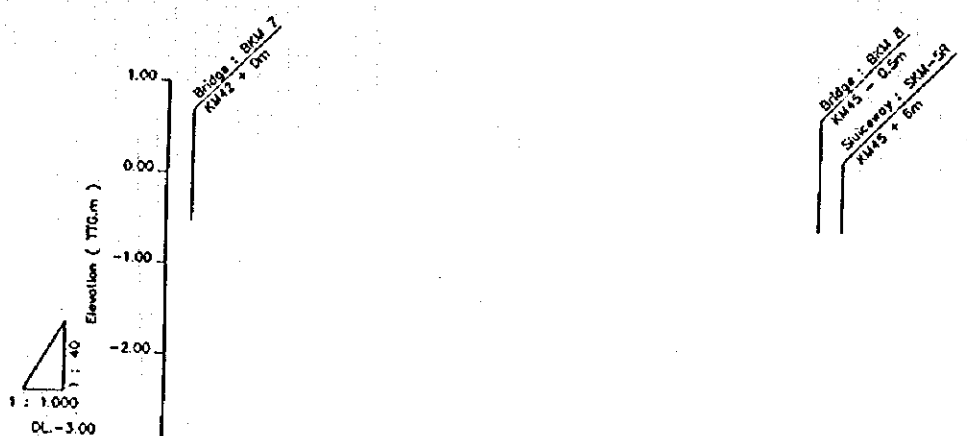


Design Elevation (m)	Parapet Wall Crest								
	Bottom of Parapet								
Type									
Cumulative - Distance (m)	2022.7		3001.1			3126.7		3281.6	
Distance (m)		178.4		125.6		134.9			
Cross Section No.	KM35		KM38			KM40		KM42	

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, PARAPET WALL PROFILE, KAWAL DRAINAGE CHANNEL (MAIN) (1/2)	
SUBMITTED		DWG NO.	DATE
DATE		J-20-20-101	
REFERENCE		DWG NO.	

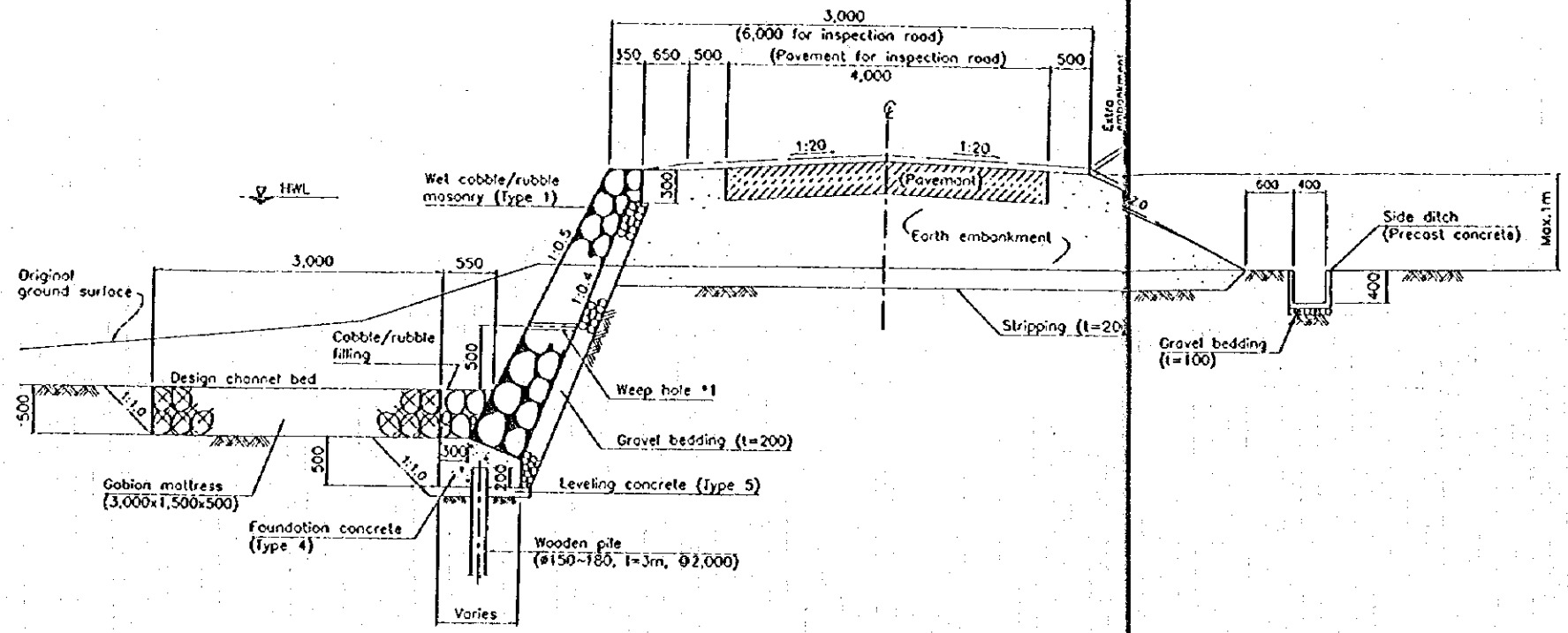


Design Elevation (m)	Parapot Wall Crest																			
Design Elevation (m)	Bottom of Parapot																			
Type	Reverse T-type																			
Cumulative - Distance (m)	3281.6		3395.3	3447.2	3454.0		3527.4		3618.9		3700.4		3827.6	3831.3						3926.0
Distance (m)		111.7		53.9	6.8	73.4		61.5		122.2		6.70	94.7							
Cross Section No.	KM42		KM43	KM44	KM45		KM46		KM47		KM48		KM49	KM50						KM51

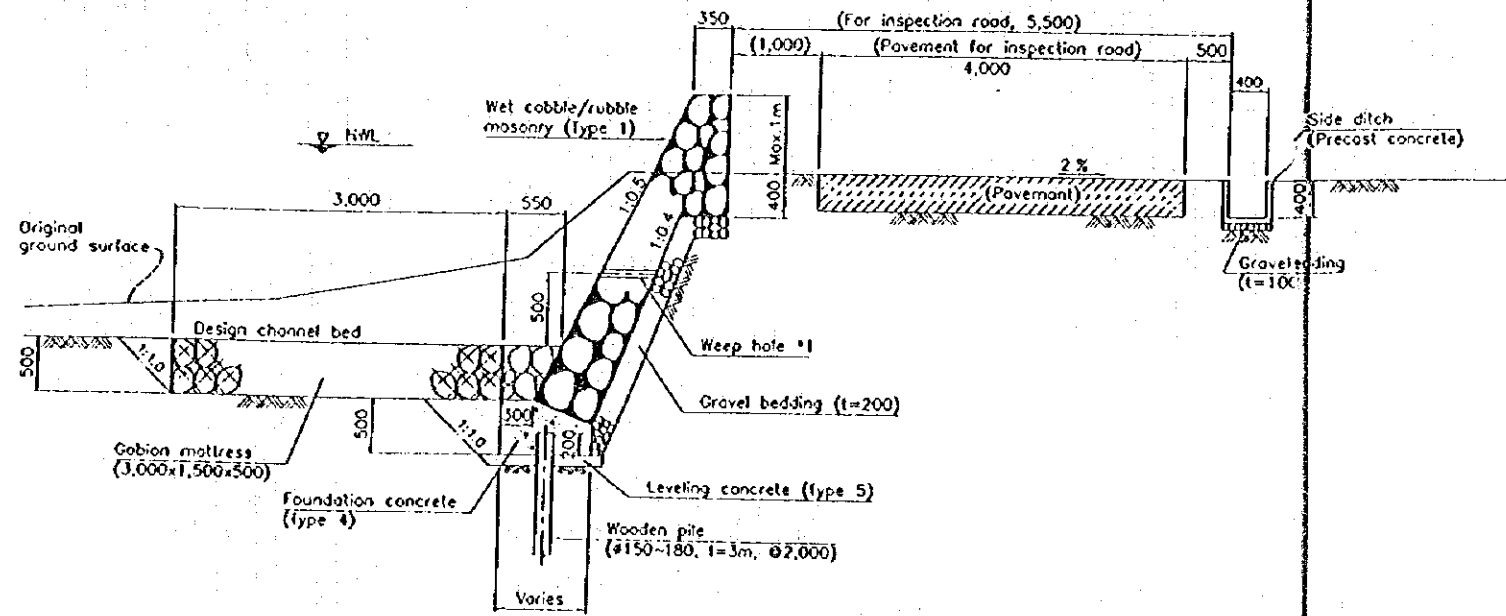


Design Elevation (m)	Parapot Wall Crest																			
Design Elevation (m)	Bottom of Parapot																			
Type																				
Cumulative - Distance (m)	3281.6		3395.3	3454.0		3527.4		3618.9		3700.4		3827.6	3831.3							3926.0
Distance (m)		111.7		60.7	71.2		91.5		81.5		130.9		94.7							
Cross Section No.	KM42		KM43	KM44	KM45		KM46		KM47		KM48		KM49	KM50						KM51

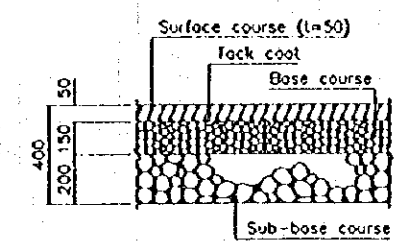
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED	
CHECKED		CHANNEL STRUCTURES, PARAPET WALL PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (2/2)		
SUBMITTED		OWG NO.		DATE
DATE		J-20-20-102		
REFERENCE		OWG NO.		



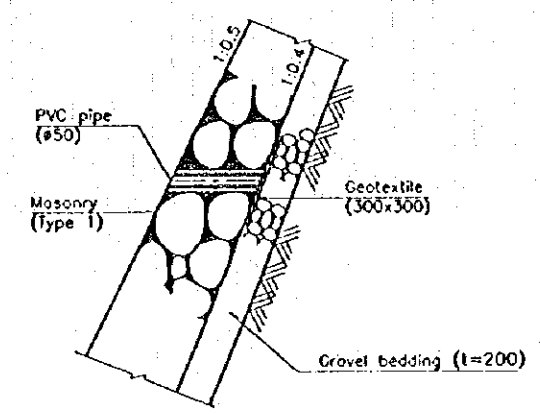
TYPE I



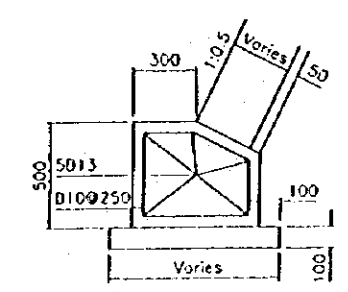
TYPE II



PAVEMENT



WEEP HOLE

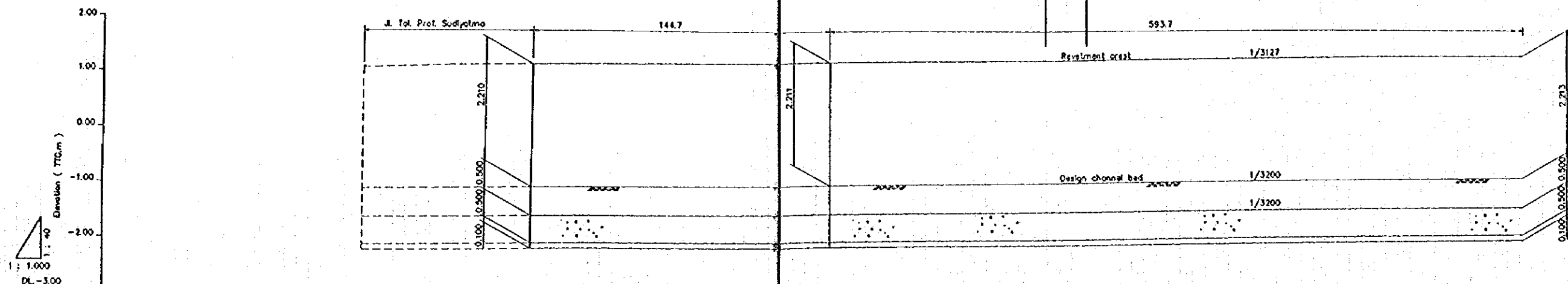


FOUNDATION CONCRETE

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

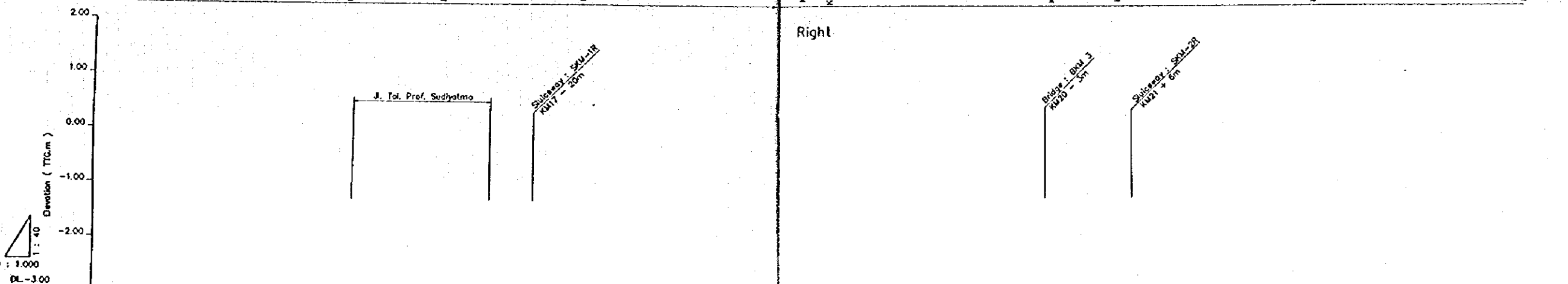
REFERENCE	DWC NO.	PREPARED	MINISTRY OF PUBLIC WORK DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
		CHECKED		CHANEL STRUCTURES, REVIETMENT TYPICAL CROSS SECTIONS	
		SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA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

Left



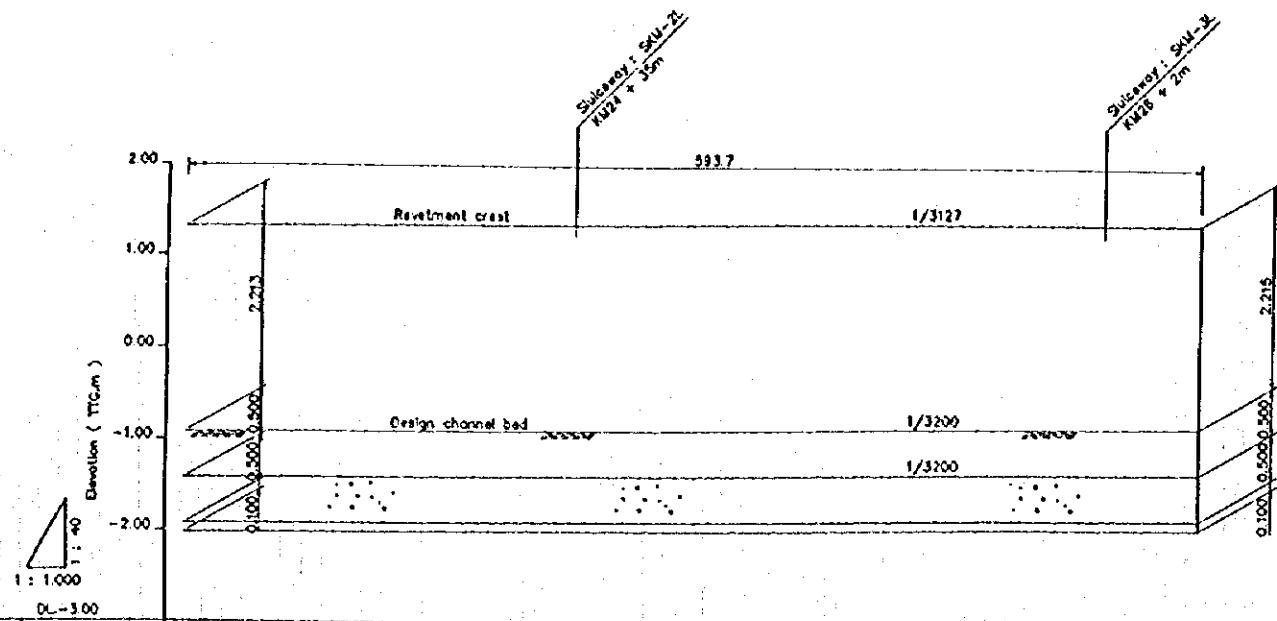
Design Elevation (m)	Left												
Revetment Crest													
Channel Bed													
Type	(Levee earth type)			(BINA MARGA's area)				Type I (w/o embankment)		Type II			
Cumulative - Distance (m)	1286.9	1357.3	1360.7	1392.3	1420.5	1443.3	1482.5	1589.2	1602.0	1702.5	1733.2	1821.2	1916.7
Distance (m)		90.4	23.4	11.6	28.2	36.8	25.2	106.7	12.8	100.5	30.7	88.0	95.5
Cross Section No.	KM13	KM14	KM14+	KM15	KM16	KM16+	KM17	KM18	KM18+	KM20	KM21	KM22	KM23

Right



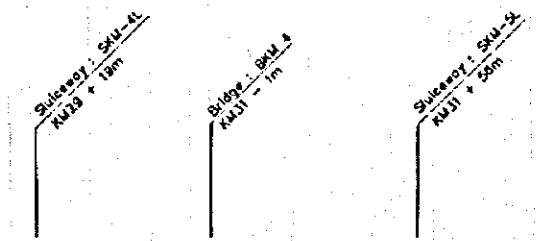
Design Elevation (m)	Right												
Levee Crest													
Channel Bed													
Type	(Levee earth type)			(BINA MARGA's area)				(Levee earth type)					
Cumulative - Distance (m)	1286.9	1357.3	1360.7	1392.3	1420.5	1443.3	1482.5	1589.2	1602.0	1702.5	1733.2	1821.2	1916.7
Distance (m)		90.4	23.4	11.6	28.2	22.8	39.2	106.7	113.3	30.7	88.0	95.5	
Cross Section No.	KM13	KM14	KM14+	KM15	KM16	KM16+	KM17	KM18	KM18+	KM20	KM21	KM22	KM23

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, REVETMENT, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (1/5)	APPROVED
CHECKED.....		DWG NO.	DATE
SUBMITTED.....		J-20-30-101	
DATE.....			
REFERENCE	DWG NO.		



Design Elevation (m)	Type II										(Levee earth type)									
Revetment Crest	1916.7		1988.7		2004.6		2166.9		2195.7		2286.8		2395.4		2473.2		2540.7		2614.2	
Channel Bed	-0.920		-0.898		-0.868		-0.842		-0.833											
Type	Type II										(Levee earth type)									
Cumulative Distance (m)	1916.7		1988.7		2004.6		2166.9		2195.7		2286.8		2395.4		2473.2		2540.7		2614.2	
Distance (m)		72.0		85.9		82.3		28.6		91.1		108.6		77.8		67.5		73.5		
Cross Section No.	KM23		KM24		KM25		KM26		KM26+28.6		KM27		KM28		KM29		KM31		KM32	

Left

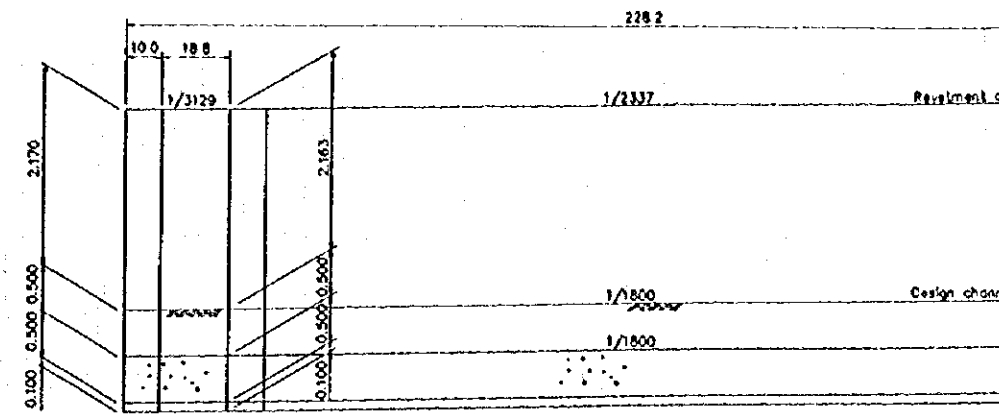
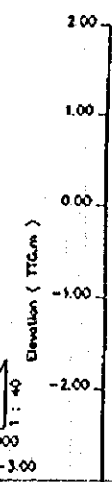


Design Elevation (m)	(Levee earth type)																		
Levee Crest	1916.7		1988.7		2004.6		2166.9		2195.7		2286.8		2395.4		2473.2		2540.7		2614.2
Channel Bed	-0.920		-0.898		-0.868		-0.842		-0.833										
Type	(Levee earth type)																		
Cumulative Distance (m)	1916.7		1988.7		2004.6		2166.9		2195.7		2286.8		2395.4		2473.2		2540.7		2614.2
Distance (m)		72.0		85.9		82.3		28.6		119.9		108.6		77.8		67.5		73.5	
Cross Section No.	KM23		KM24		KM25		KM26		119.9		KM27		KM28		KM29		KM31		KM32

Right

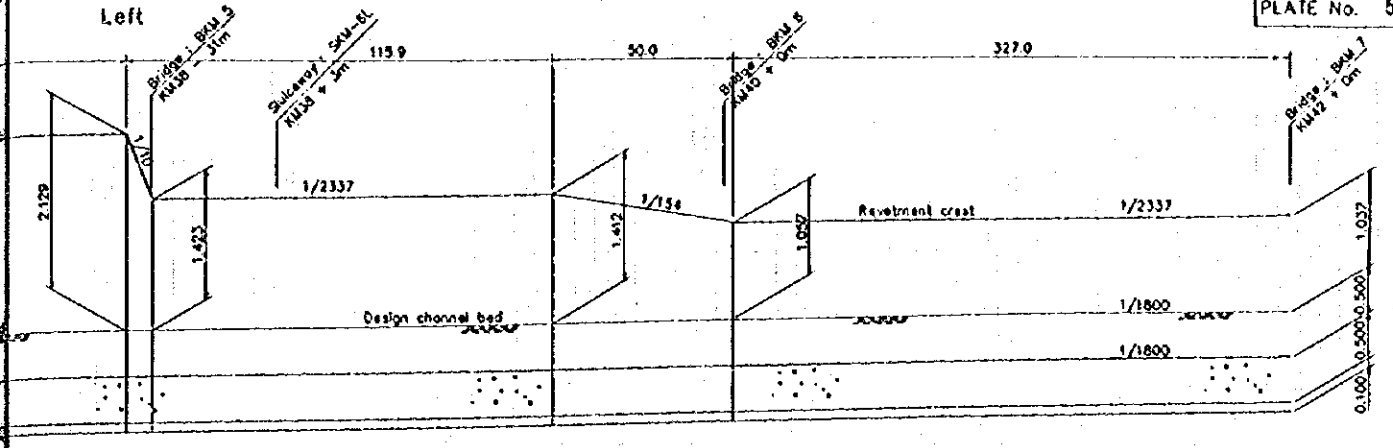


PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING CHANNEL STRUCTURES, REVELMENT, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (2/3)	APPROVED
CHECKED		DWG NO. J-20-30-102	DATE
SUBMITTED			
DATE			
REFERENCE	DWG NO.		

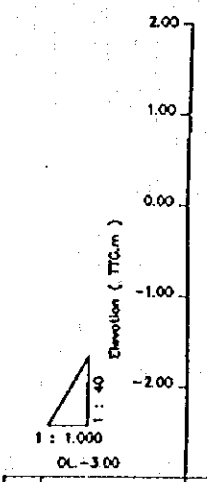
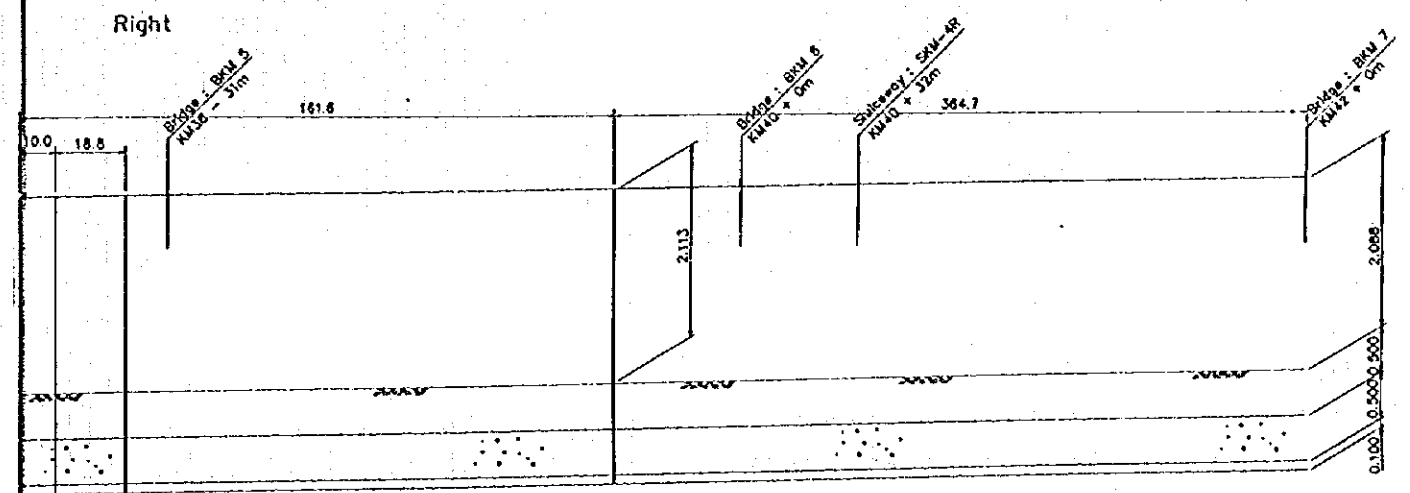


Design Elevation (m)	Revetment Crest	2.170	1.536	1.539	1.545	1.548	1.572	1.595	1.655	1.650	1.697	1.000	0.691	0.675	0.740
Design Elevation (m)	Channel Bed	0.534	0.629	0.618	0.613	0.592	0.552	0.474	0.474	0.453	0.412	0.383	0.382	0.297	0.297
Type		(Levee earth type)	Transition				Type I					Type I			
Cumulative - Distance (m)		2614.2	2675.1	2685.1	2703.9	2713.9	2769.5	2822.7	2863.3	2870.4	3001.1	3079.2	3126.7	3125.2	3281.6
Distance (m)		60.9	10.0	18.8	10.0	55.6	53.2	140.6	7.1	30.7	78.1	47.5	152.4		
Cross Section No.		KM32	KM32+60.9	KM32+70.9	KM32+89.7	KM33	KM34	KM35	KM35+140.6	KM35+147.7	KM36	KM36+78.1	KM40	KM40+2.5	KM42

Left

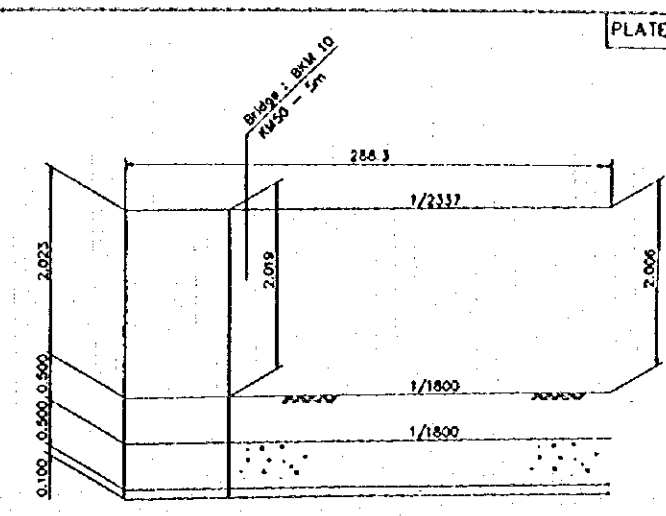
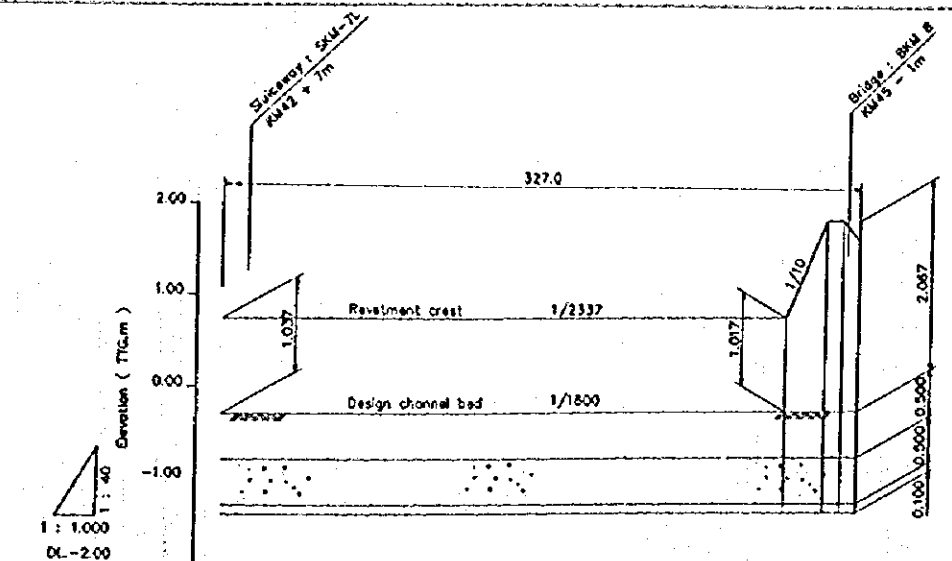


Right



Design Elevation (m)	Levee Crest	2.170	1.640	1.643	1.653	1.671	1.710	1.725	1.791
Design Elevation (m)	Channel Bed	0.483	0.487	0.477	0.453	0.403	0.383	0.297	0.297
Type		(Levee earth type)	Transition		Type I (w/o embankment)		Type I		
Cumulative - Distance (m)		2614.2	2639.9	2658.7	3001.1	3091.5	3126.7	3281.6	
Distance (m)		99.7	18.8	42.4	90.4	33.2	154.9		
Cross Section No.		KM32	KM32+107.2	KM32+117.2	KM35	KM36	KM36+90.4	KM40	KM42

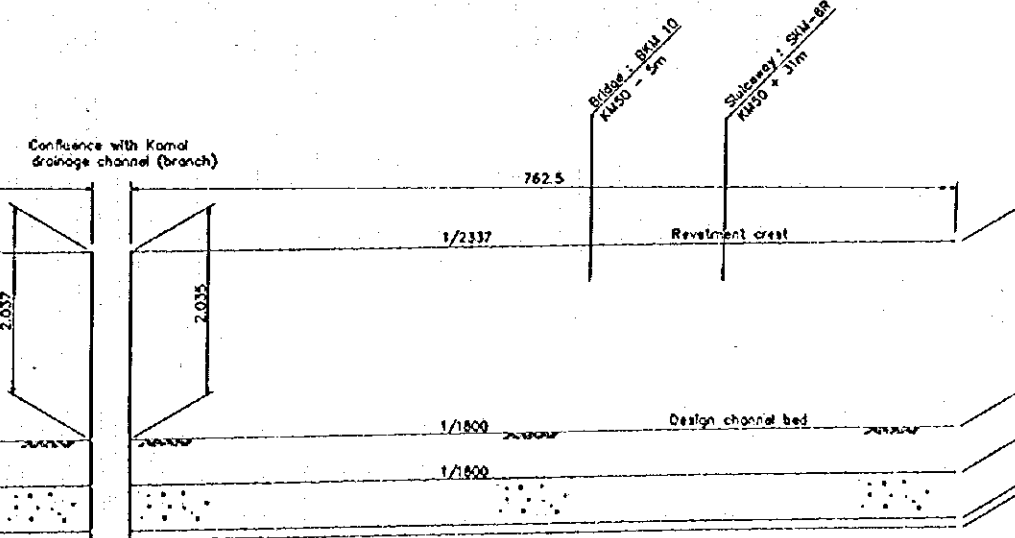
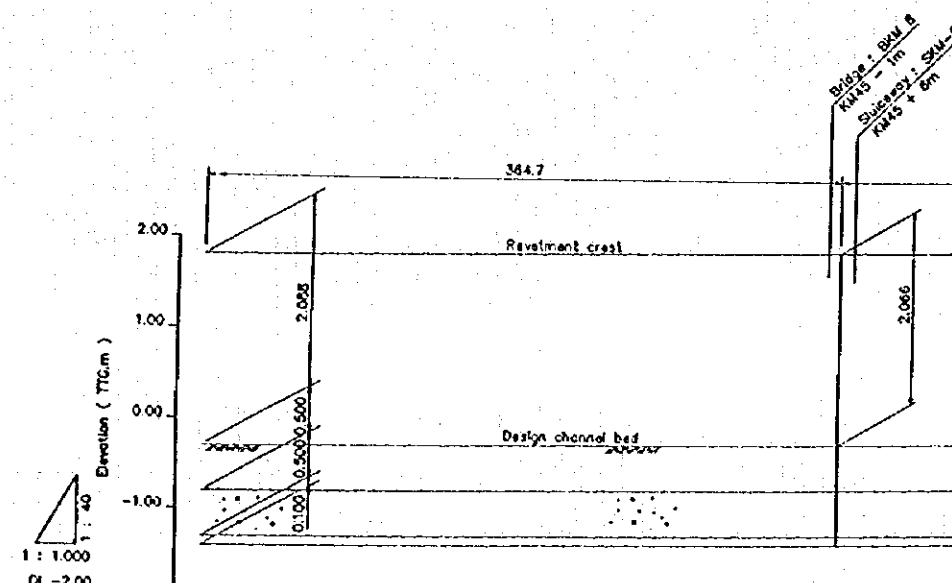
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING CHANNEL STRUCTURES, REYETMENT, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (3/3)	APPROVED
CHECKED	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-20-30-103	DATE
SUBMITTED			
DATE			
REFERENCE	DWG NO.		



Design Elevation (m)	Revetment Crest	0.740	0.788	0.607	1.862	1.865	1.866	2.067	2.010	2.022	2.026	2.067	
Design Elevation (m)	Channel Bed	-0.297	-0.235	-0.210	-0.202	-0.200	-0.200	0.000	-0.011	0.003	0.006	0.061	
Type	Type I							(Levee earth type)	Type I (w/o embankment)				
Cumulative Distance (m)	3281.6	3393.3	3436.6	3447.2	3451.0	3456.2	3527.4	3618.8	3700.4	3792.9	3821.7	3926.0	
Distance (m)		111.7	43.3	10.8	4.8	71.2	91.5	81.5	92.5	28.6	9.6	94.7	
Cross Section No.	KM42	KM43	KM43-4.3.3	KM43-5.1.3	KM43-5.1.0	KM43-2.2	KM46	KM47	KM48	KM48-92.5	KM48-121.3	KM50	KM51

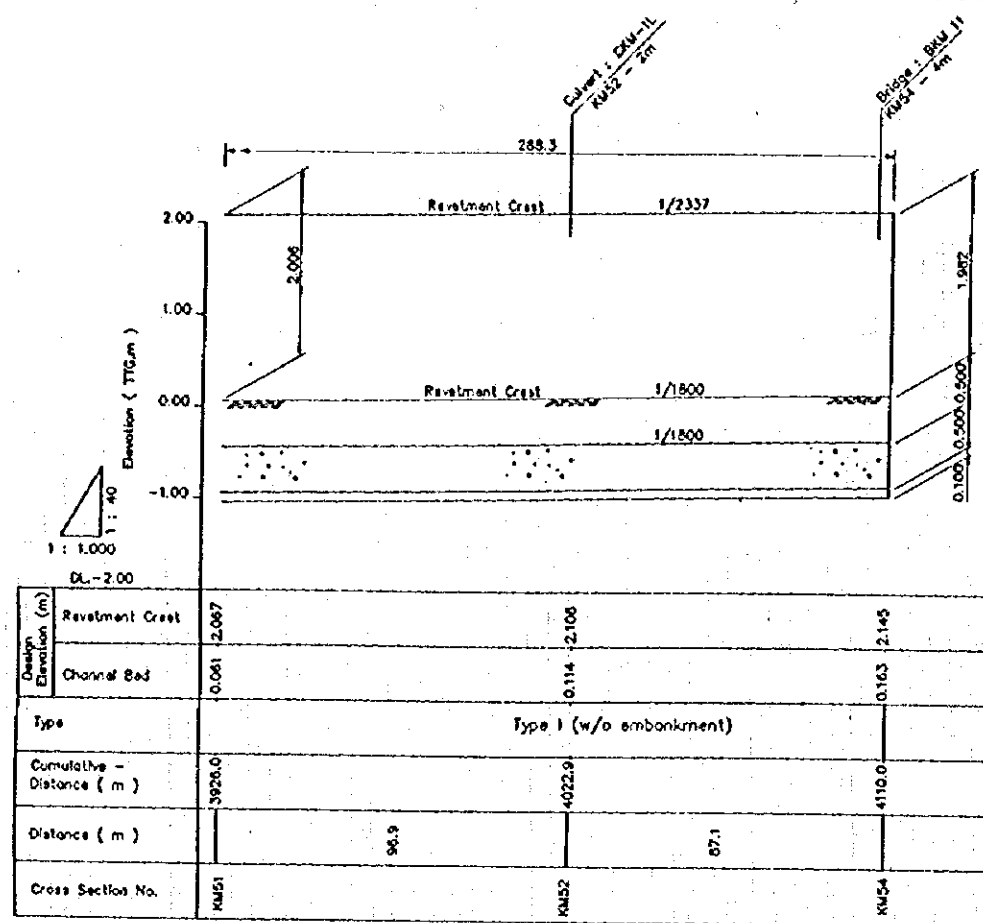
Left

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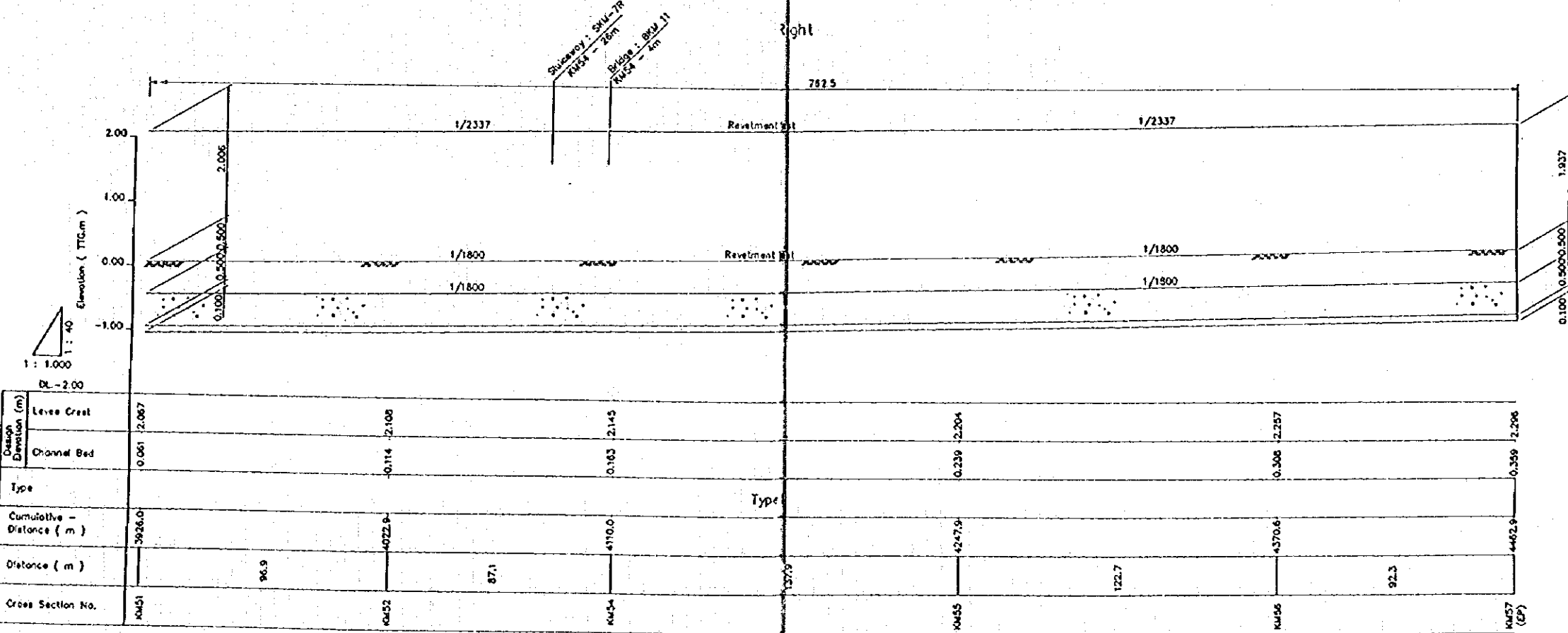


Design Elevation (m)	Levee Crest	1.791	1.839	1.865	1.866	1.896	1.935	1.966	1.970	2.026	2.067	
Design Elevation (m)	Channel Bed	-0.297	-0.235	-0.202	-0.200	-0.161	-0.110	-0.071	-0.085	0.008	0.061	
Type	Type I							Type II	Type II			
Cumulative Distance (m)	3281.6	3393.3	3436.0	3436.2	3456.2	3527.4	3618.8	3689.4	3700.4	3831.2	3926.0	
Distance (m)		111.7	60.7	0.2	71.2	91.5	70.9	10.6	130.9	94.7		
Cross Section No.	KM42	KM43	KM43-4.3.3	KM43-4.3.2	KM43-5.1.0	KM46	KM47	KM47-70.9	KM48	KM50	KM51	

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, REVELMENT, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (4/5) DWG NO. J-20-30-104	APPROVED
CHECKED					
SUBMITTED					
DATE					
REFERENCE	DWG NO.				DATE



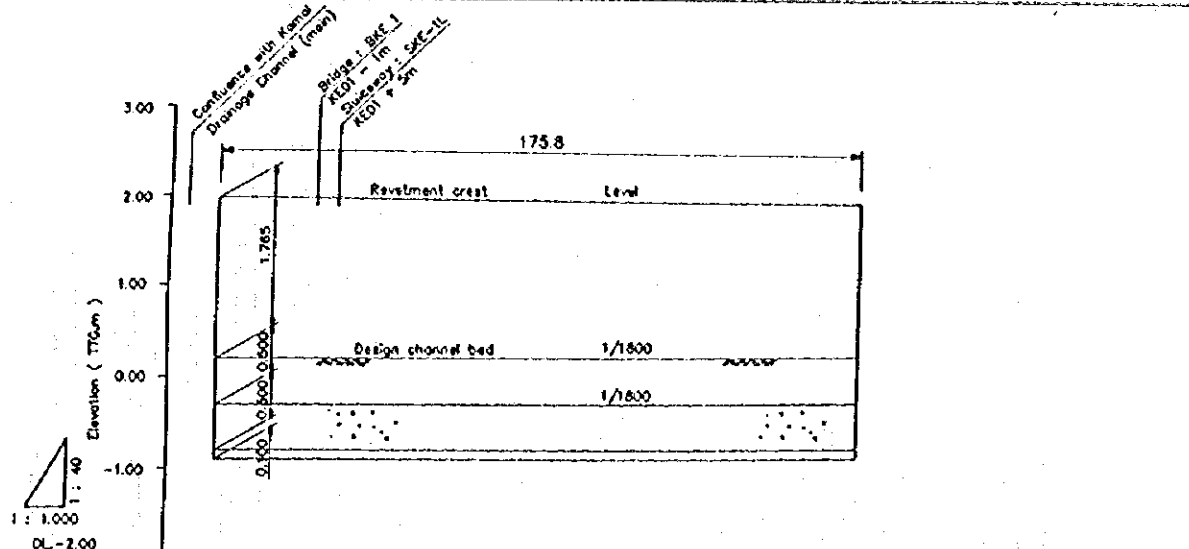
Design Elevation (m)	Revetment Crest	2.067																			
	Channel Bed	0.061	0.114	-2.108		0.163	2.145														
Type	Type I (w/o embankment)										(No works)										
Cumulative - Distance (m)	3926.0		4022.9			4110.0					4247.9									4370.6	4462.9
Distance (m)		96.9		87.1									122.7							92.3	
Cross Section No.	KM51		KM52			KM54					KM55									KM56	KM57 (EP)



Design Elevation (m)	Levee Crest	2.067																			
	Channel Bed	0.061	0.114	-2.108		0.163	2.145														
Type	Type										Type										
Cumulative - Distance (m)	3926.0		4022.9			4110.0					4247.9									4370.6	4462.9
Distance (m)		96.9		87.1									122.7							92.3	
Cross Section No.	KM51		KM52			KM54					KM55									KM56	KM57 (EP)

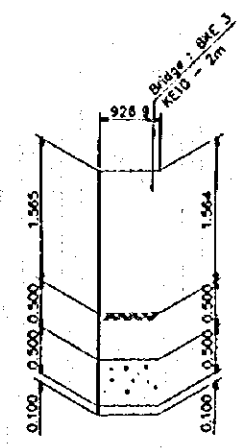
PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED		CHANNEL STRUCTURES, REVETMENT, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (5/5)	
SUBMITTED		DWG NO.	DATE
DATE		J-20-30-105	
REFERENCE	DWG NO.		

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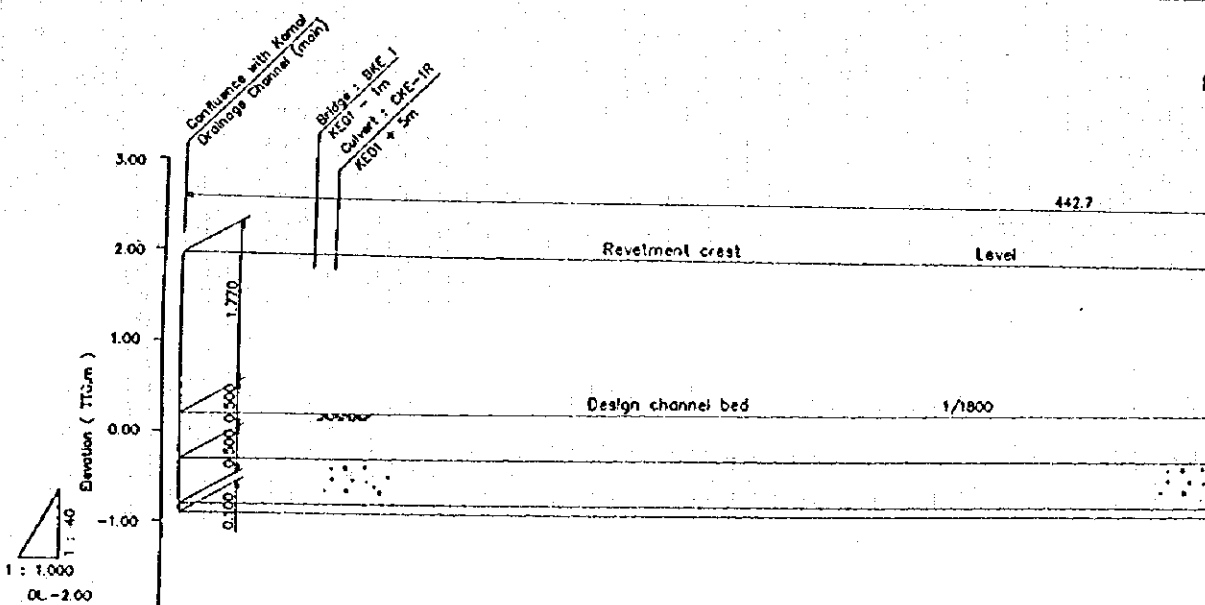


Design Elevation (m)	Revetment Crest	1.970	1.970	1.970															
	Channel Bed	0.200	0.200	0.200	0.274	0.274	0.200	0.200	0.274	0.274	0.200	0.200	0.274	0.274	0.200	0.200	0.274	0.274	0.200
Type	Type II																		
Cumulative Distance (m)	0.0	8.2	26.4	36.6	134.0	184.0	272.3	372.7	486.5	596.3	609.8	626.2	639.8	656.2	672.6	689.0	705.4	721.8	738.2
Distance (m)	8.2	26.4	97.4	50.0	68.3	100.4	114.1	131.2	145.0	158.8	172.6	186.4	200.2	214.0	227.8	241.6	255.4	269.2	283.0
Cross Section No.	KE00	KE00+8.2	KE01	KE02	KE02+50.0	KE03	KE04	KE07	KE08	KE08+41.5	KE09	KE10	KE10+16.4	KE10	KE10	KE10	KE10	KE10	KE10

Bridge: BKE 2
KED1 - 2m



Right



Design Elevation (m)	Revetment Crest	1.970	1.970	1.970															
	Channel Bed	0.200	0.200	0.200	0.274	0.274	0.200	0.200	0.274	0.274	0.200	0.200	0.274	0.274	0.200	0.200	0.274	0.274	0.200
Type	Type II																		
Cumulative Distance (m)	00.00	36.6	36.6	36.6	134.0	272.3	372.7	442.7	486.5	596.3	609.8	626.2	639.8	656.2	672.6	689.0	705.4	721.8	738.2
Distance (m)	36.6	97.4	134.3	62.45	136.3	100.4	70.0	70.0	44.1	114.1	131.2	145.0	158.8	172.6	186.4	200.2	214.0	227.8	241.6
Cross Section No.	KE 00	KE 01	KE 02	KE 03	KE 04	KE 07	KE 08	KE 08+70.0	KE 09	KE 10	KE 10+57.9	KE 10	KE 10	KE 10	KE 10	KE 10	KE 10	KE 10	KE 10

Bridge: BKE 2
KED1 - 2m

Bridge: BKE 3
KED1 - 2m

PREPARED	
CHECKED	
SUBMITTED	
DATE	
REFERENCE	DWG NO.

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,
KAMAL DRAINAGE CHANNEL (BRANCH) (1/4)
DWG NO.
J-20-30-201

APPROVED

DATE