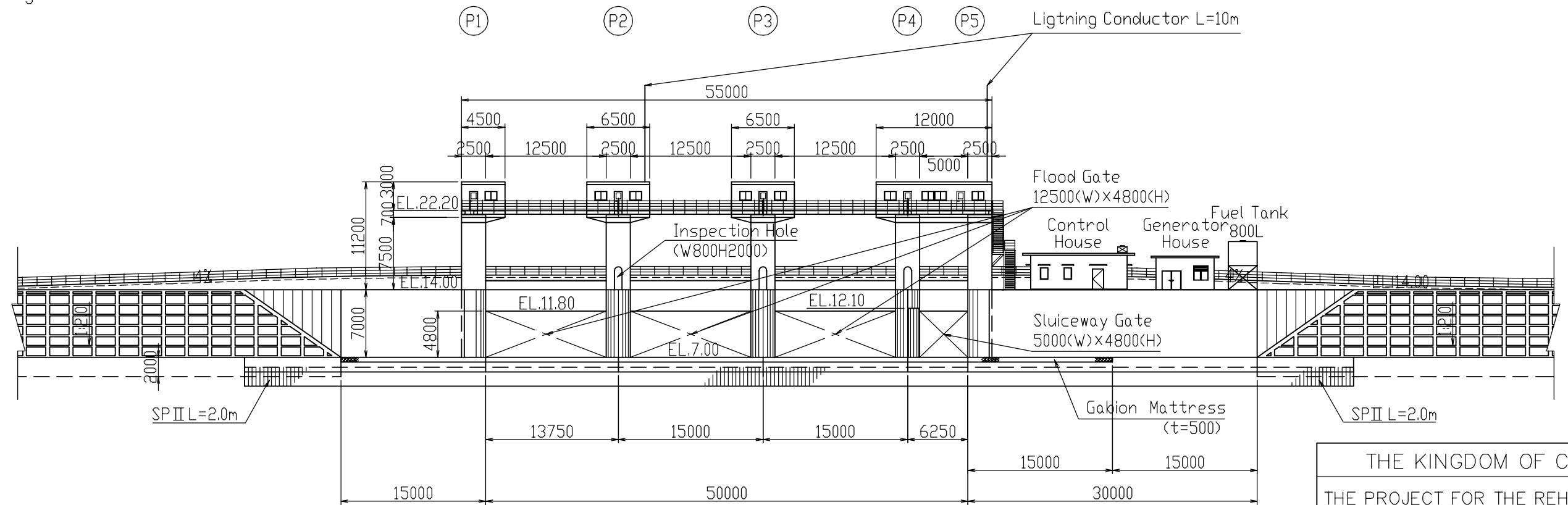


D.F.W.L. : Design Flood Water Level (WL.13.00m)  
 D.I.W.L. : Design Intake Water Level (WL.11.80m)

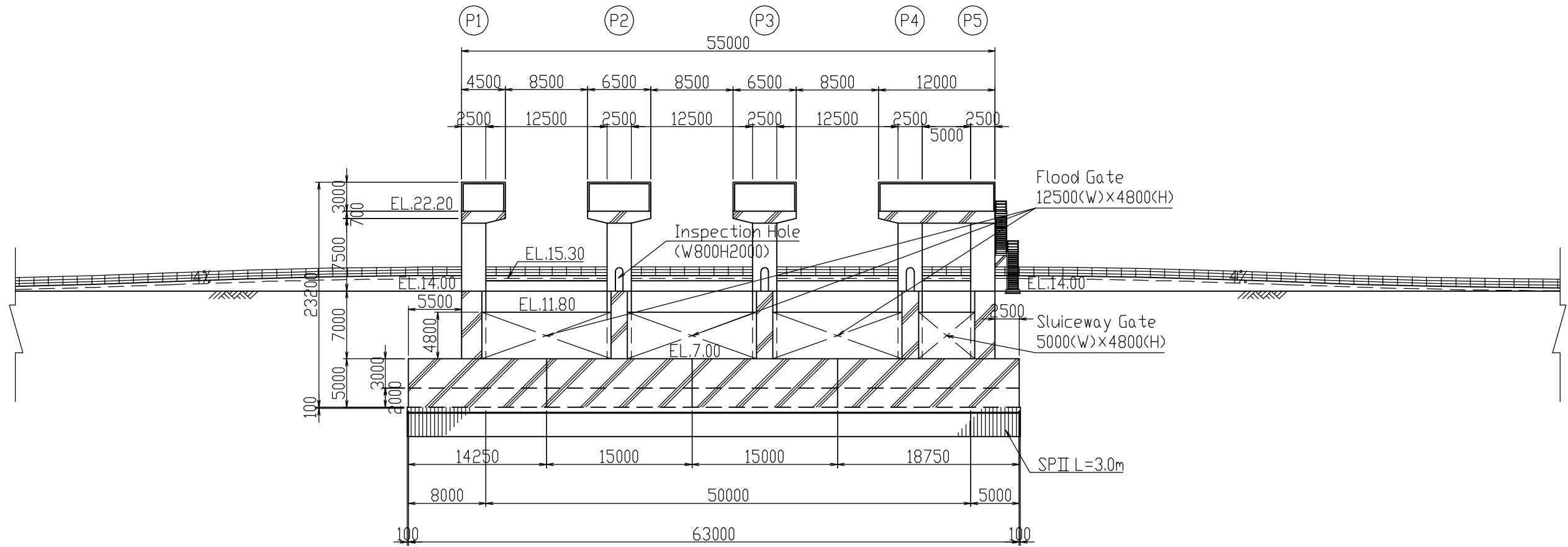
SECTION A-A S=1:500



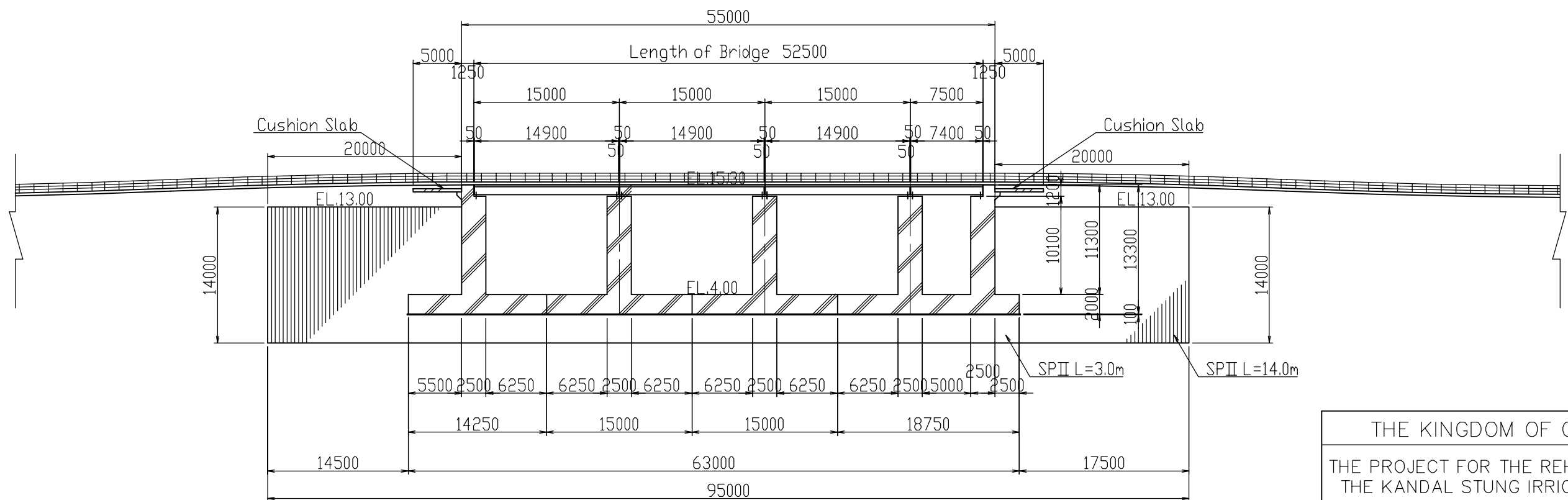
SECTION B-B S=1:500

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 構造図 (1/6)		
DATE	DRAWING NO.	2-6
NIPPON KOEI CO., LTD., JAPAN		

SECTION (2/6)



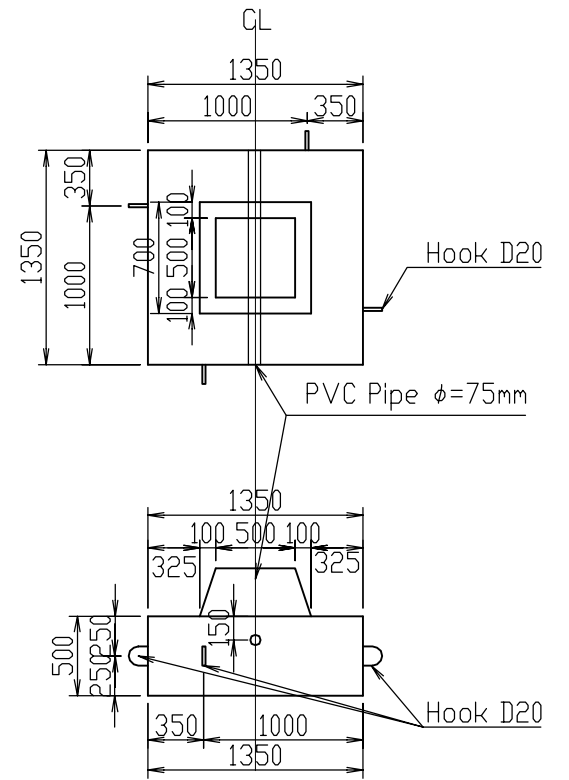
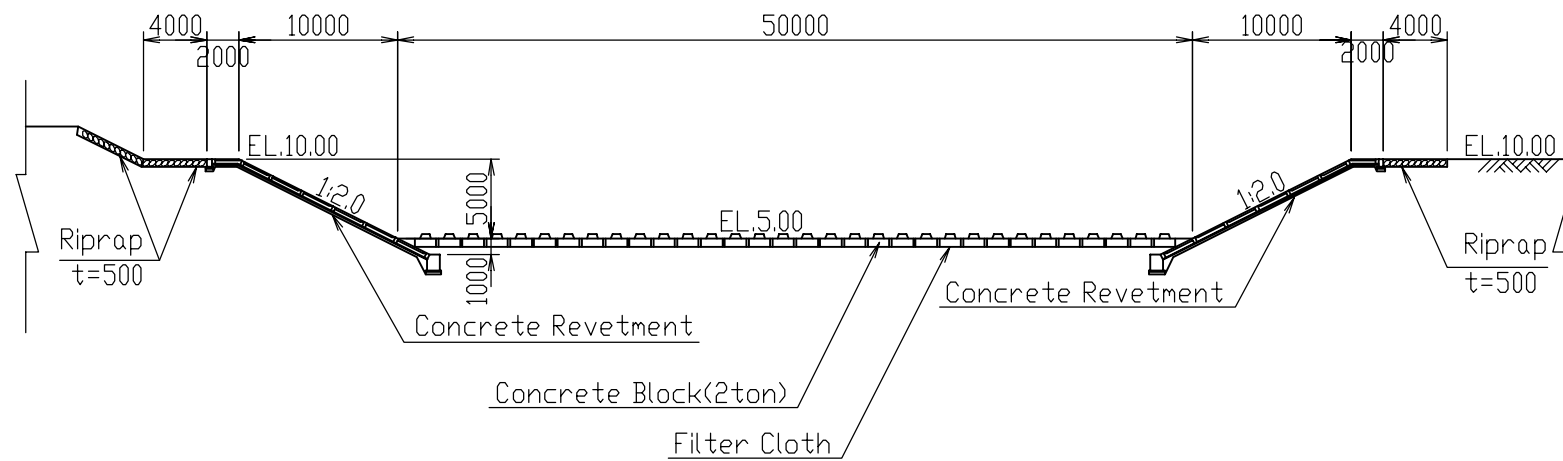
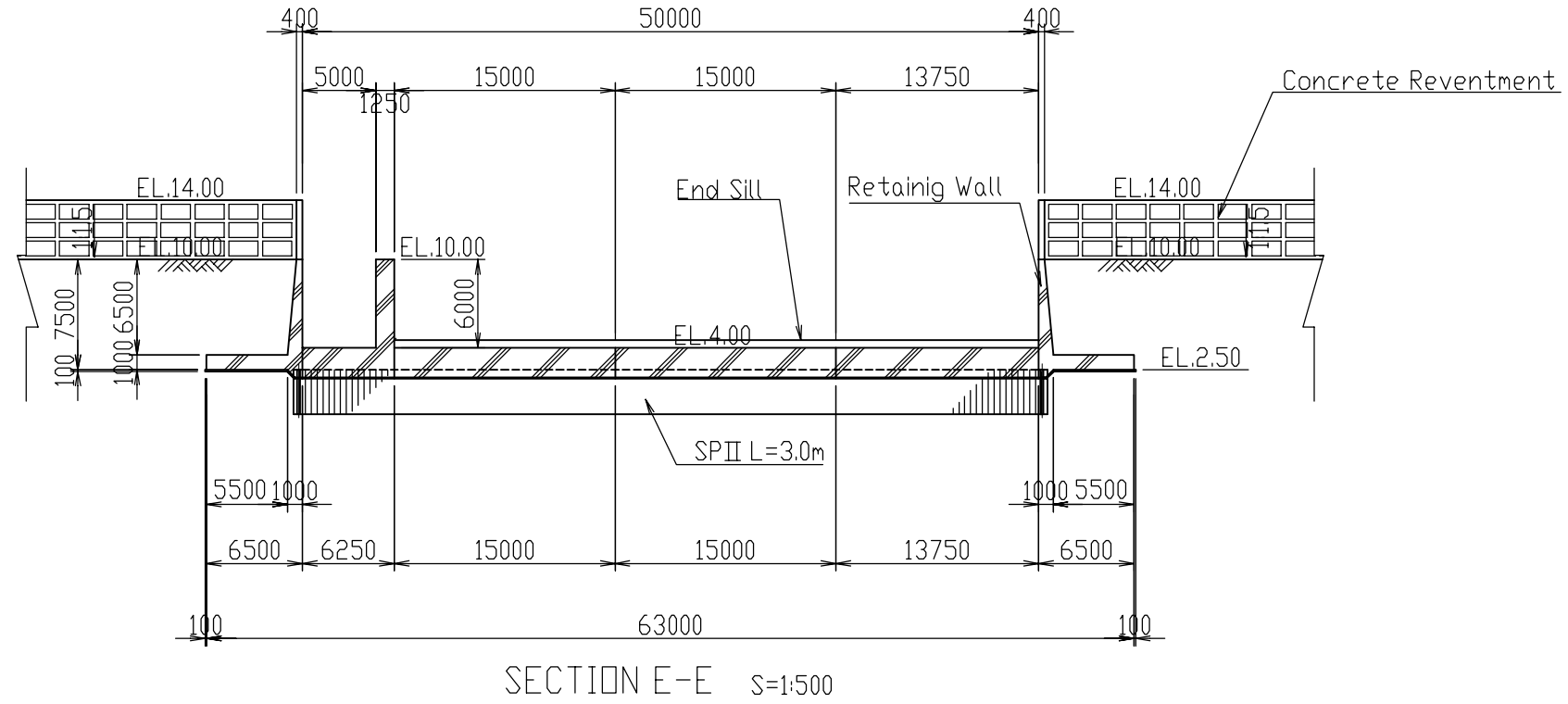
SECTION C-C S=1:500



SECTION D-D S=1:500

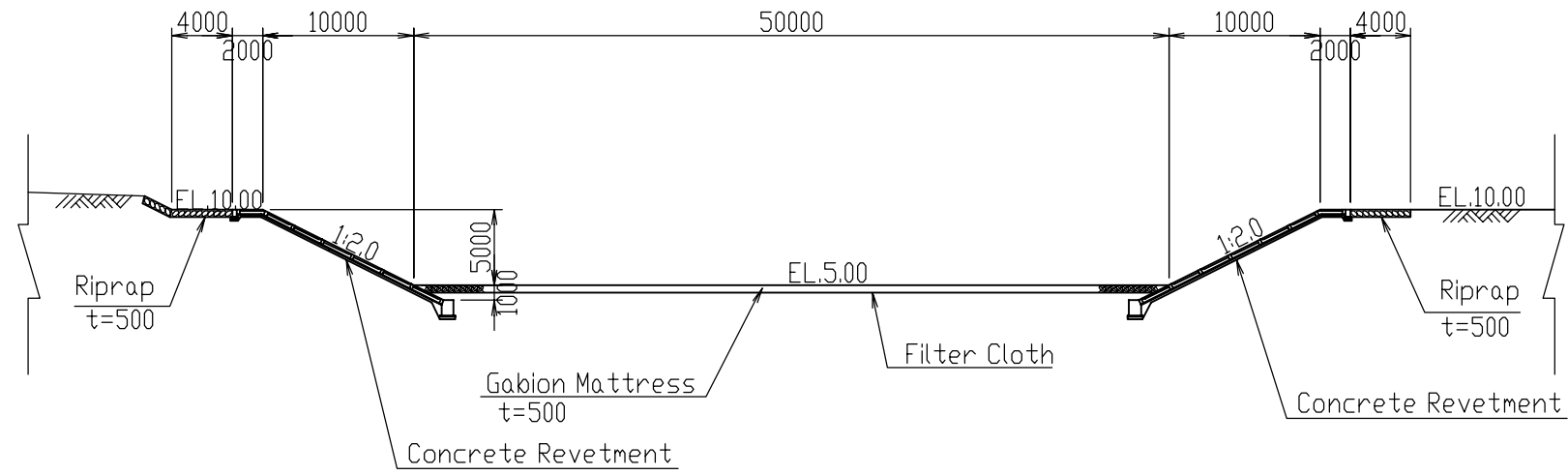
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 構造図(2/6)		
DATE	DRAWING NO.	2-7
NIPPON KOEI CO., LTD., JAPAN		

SECTION(3/6)

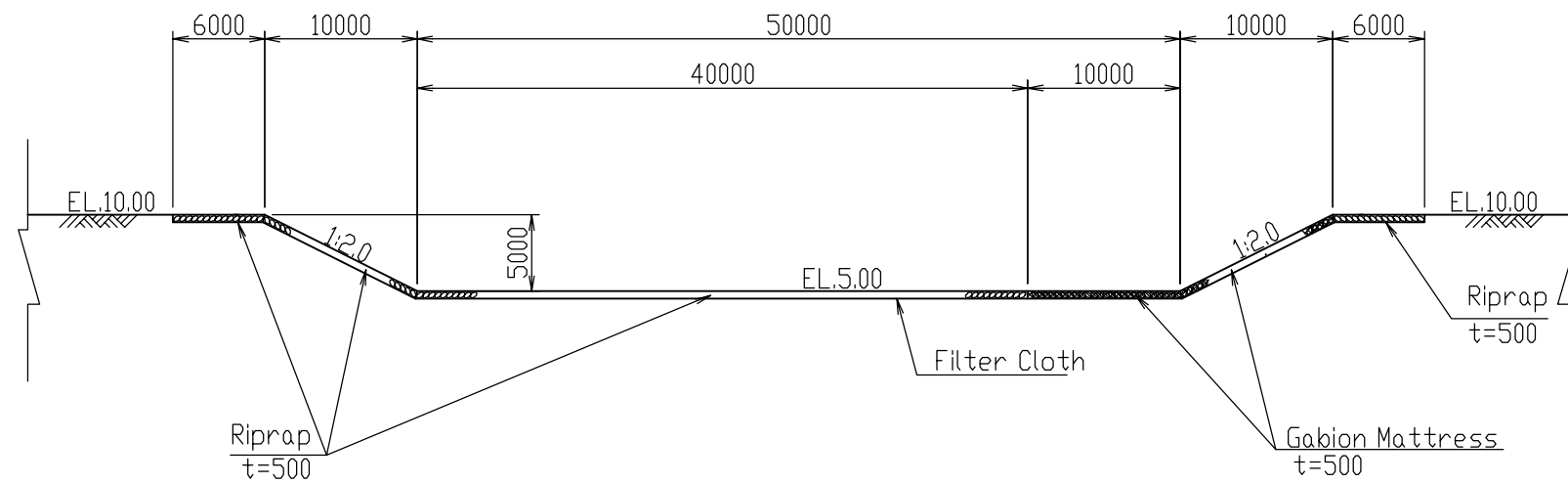


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 構造図(3/6)		
DATE	DRAWING NO.	2-8
NIPPON KOEI CO., LTD., JAPAN		

SECTION(4/6)



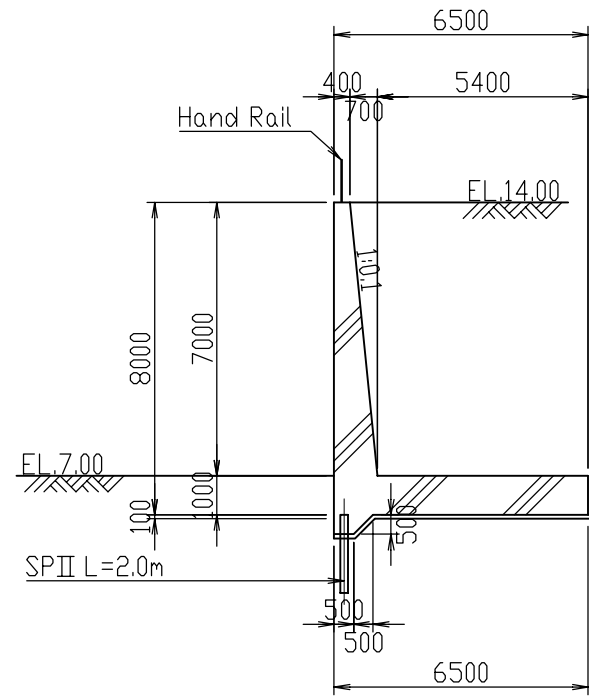
SECTION G-G S=1:500



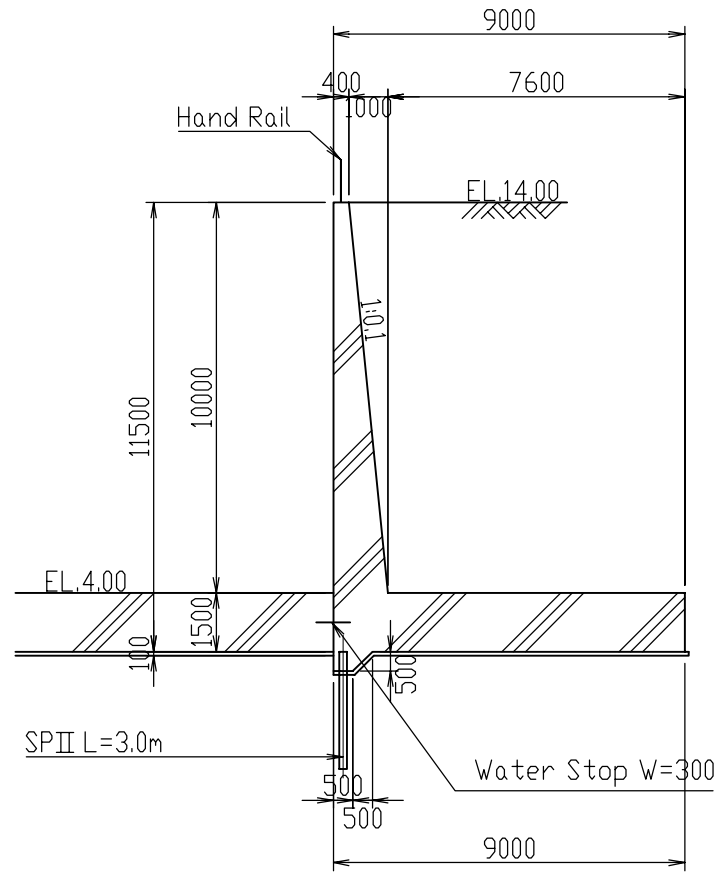
SECTION H-H S=1:500

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 構造図(4/6)		
DATE	DRAWING NO.	2-9
NIPPON KOEI CO., LTD., JAPAN		

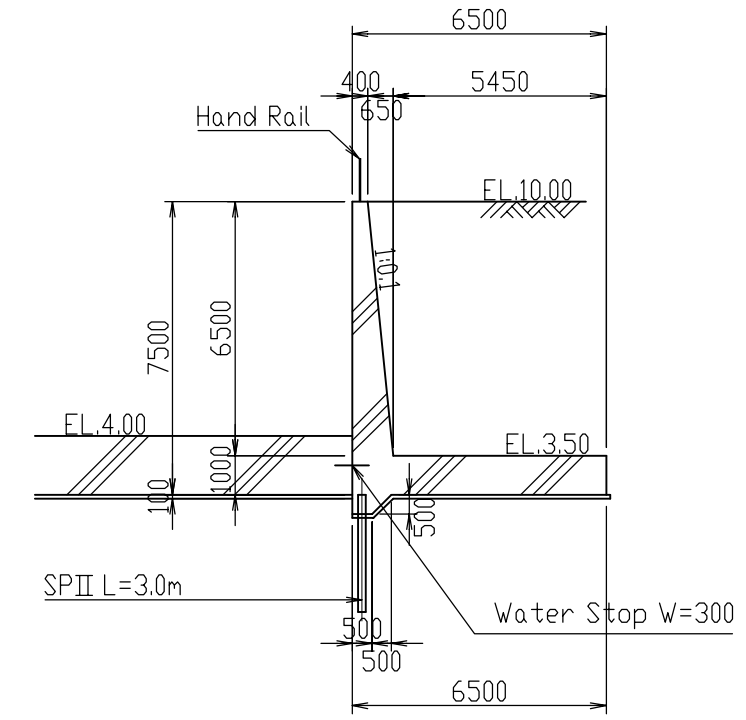
SECTION(5/6)



SECTION I-I

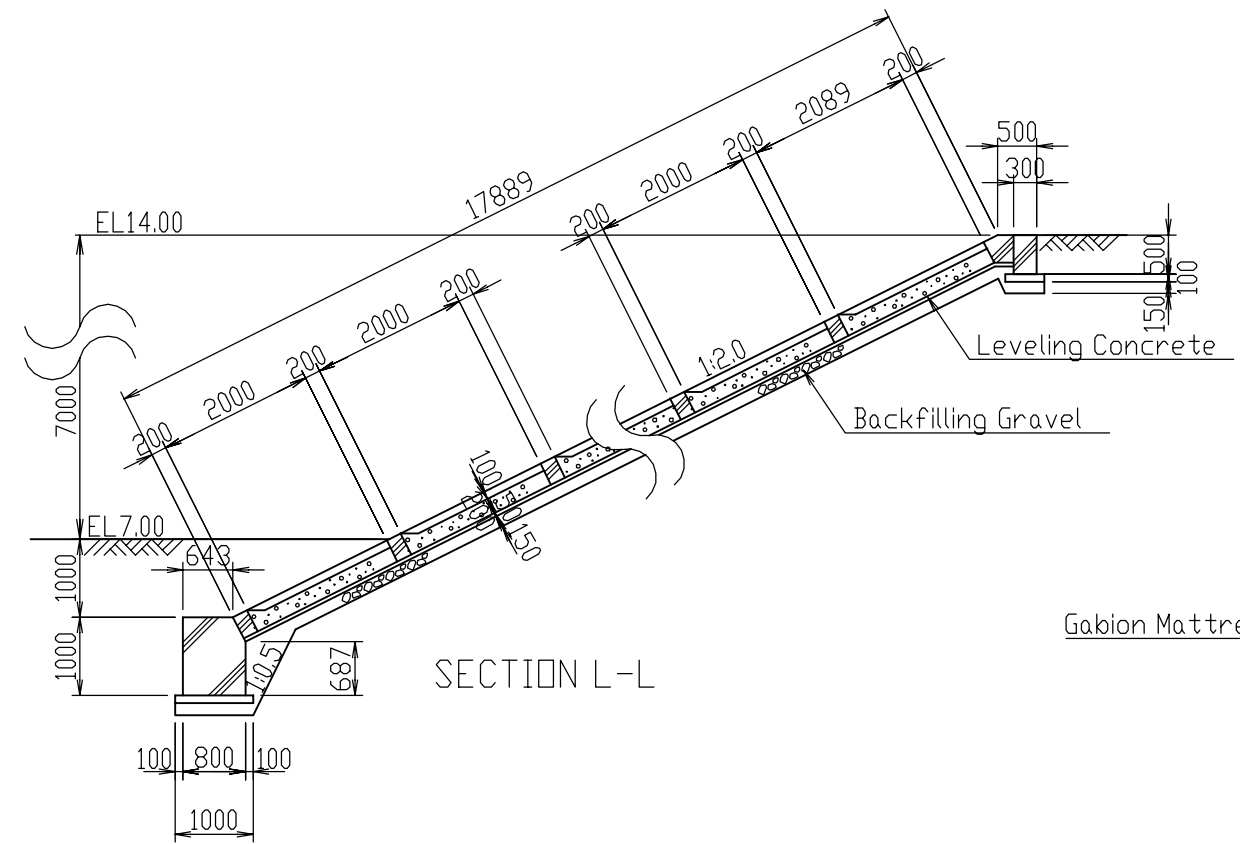


SECTION J-J (Type-A)

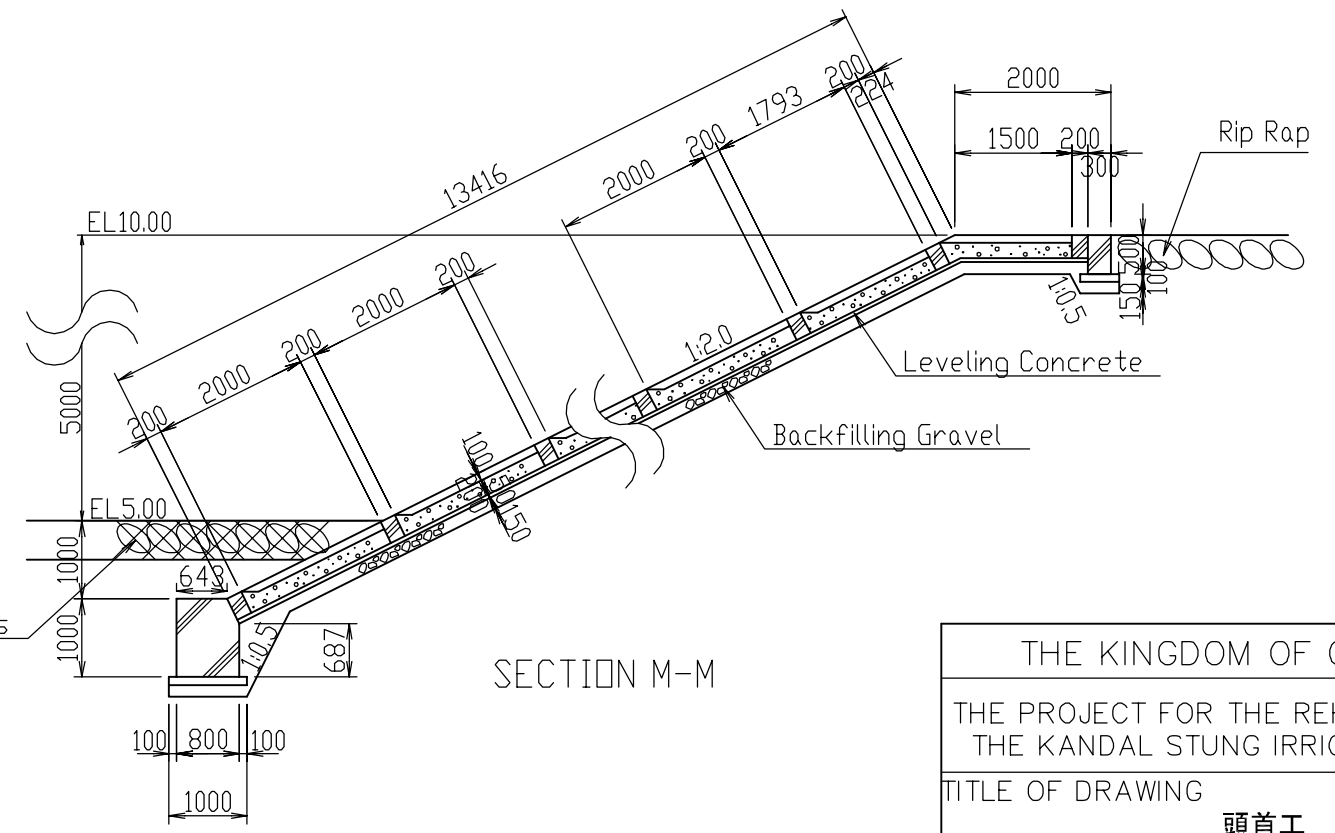


SECTION K-K (Type-B)

DETAIL OF RETAINING WALLS S=1:200



SECTION L-L

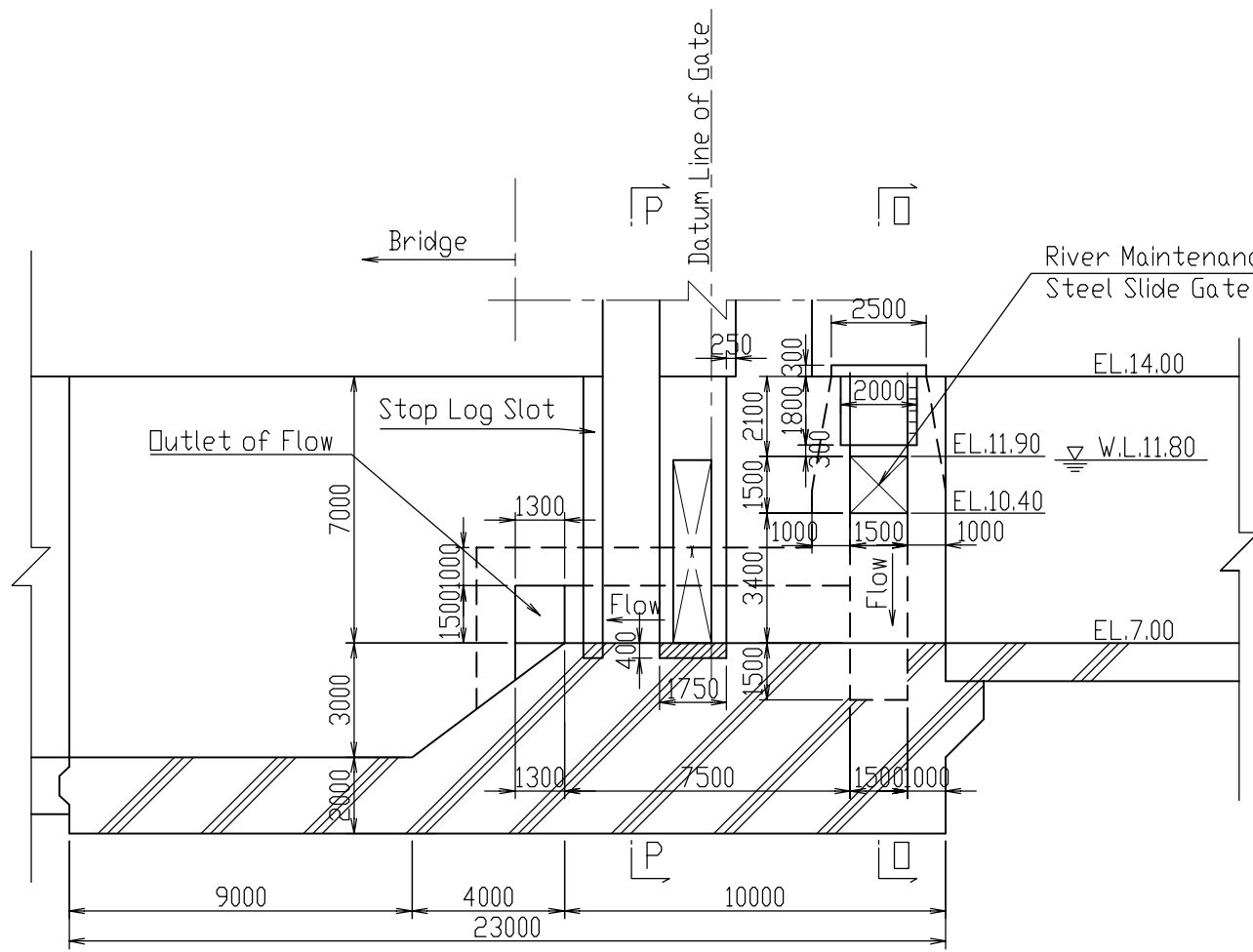


SECTION M-M

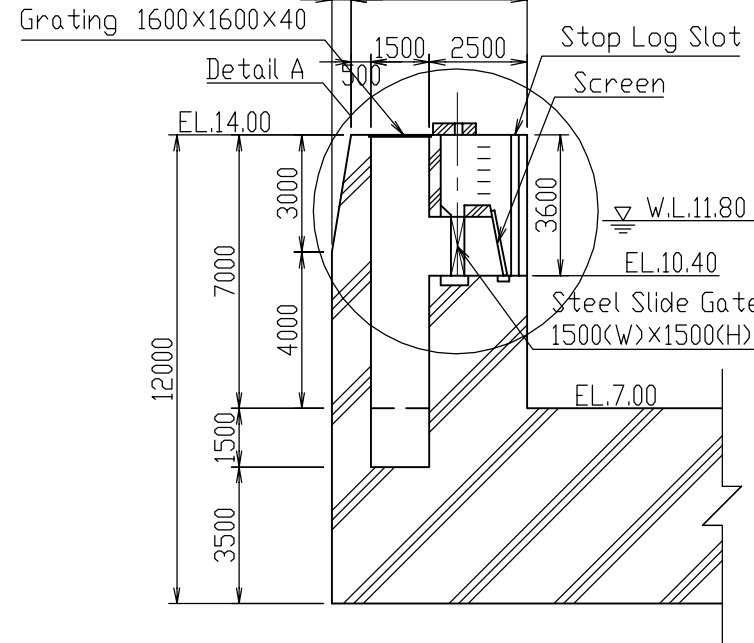
DETAIL OF REVENTMENTS S=1:100

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 構造図(5/6)		
DATE	DRAWING NO.	2-10
NIPPON KOEI CO., LTD., JAPAN		

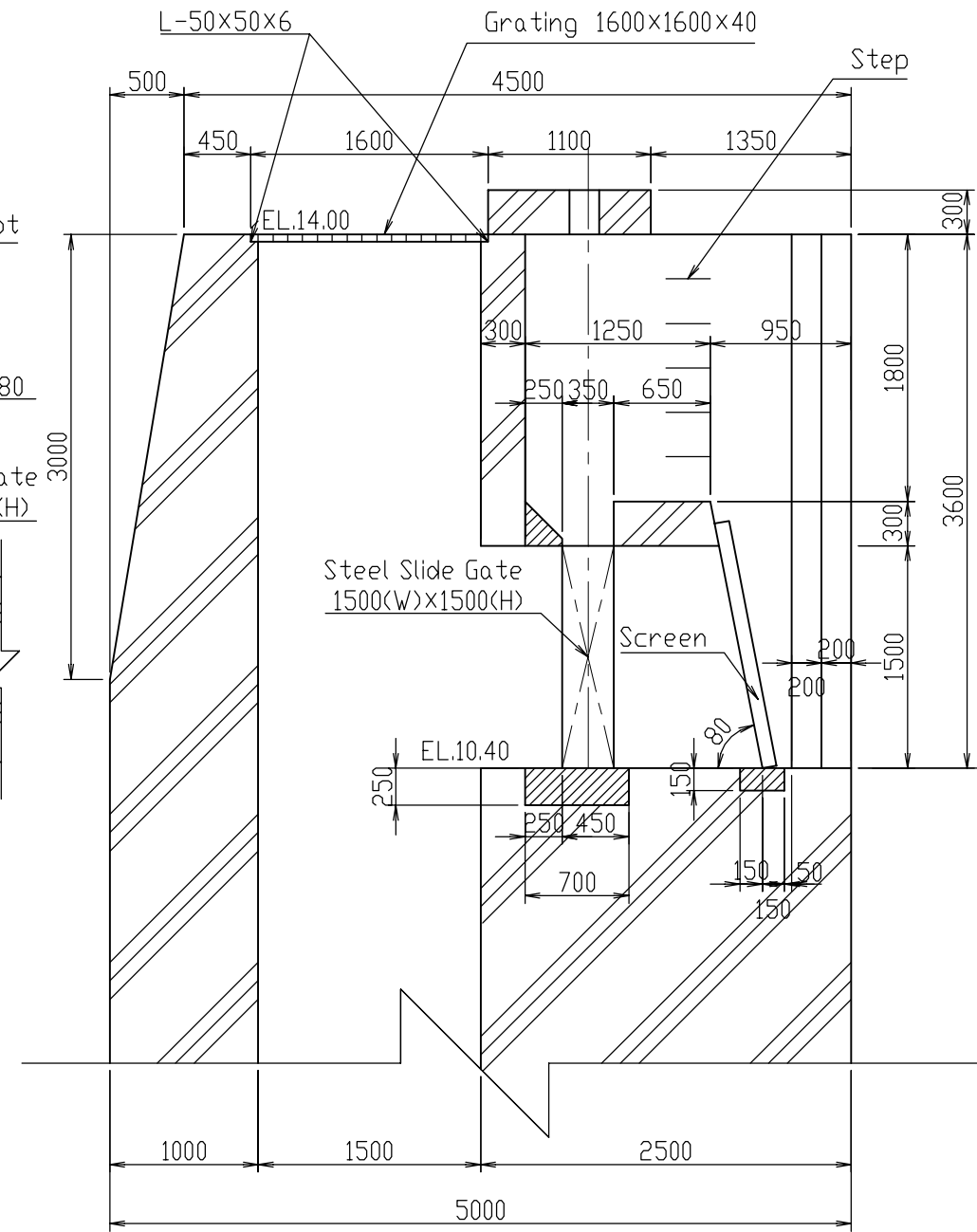
SECTION (6/6)



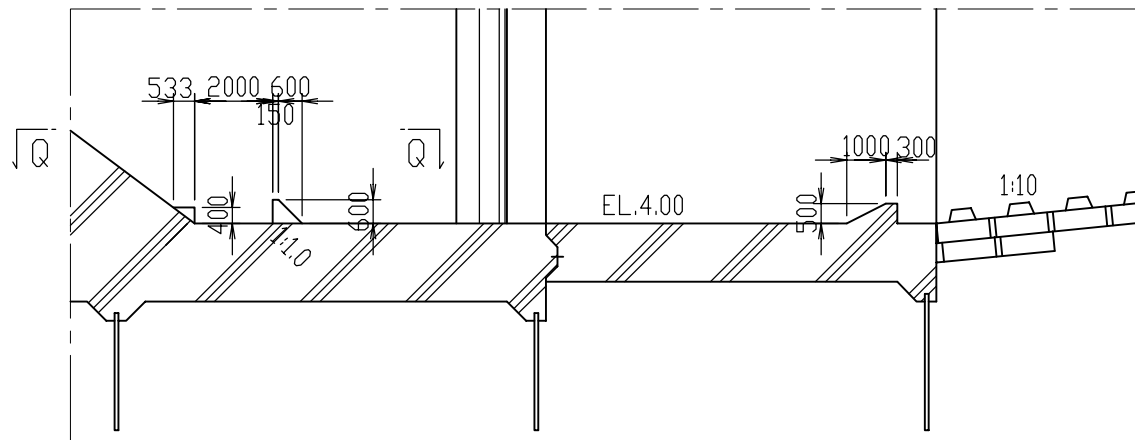
SECTION N - N S=1:200



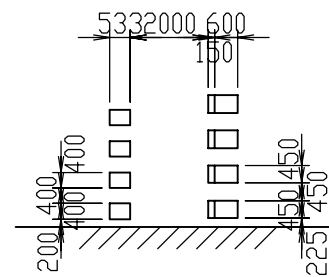
SECTION O - O S=1:200



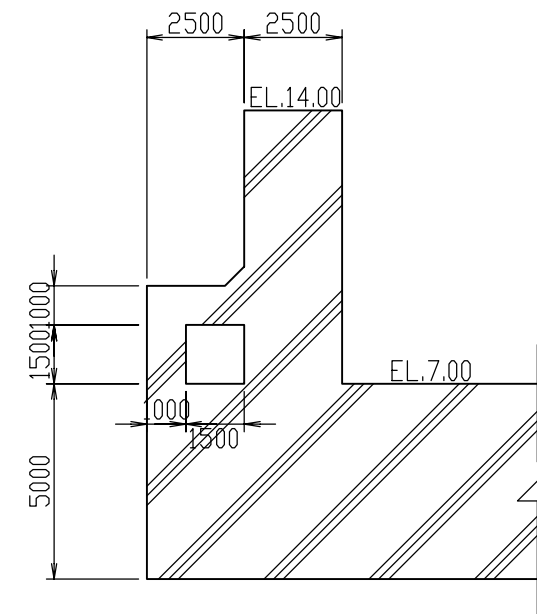
DETAIL A S=1:50



DETAIL OF BUFFLE PIERS AND END SILL S=1:200



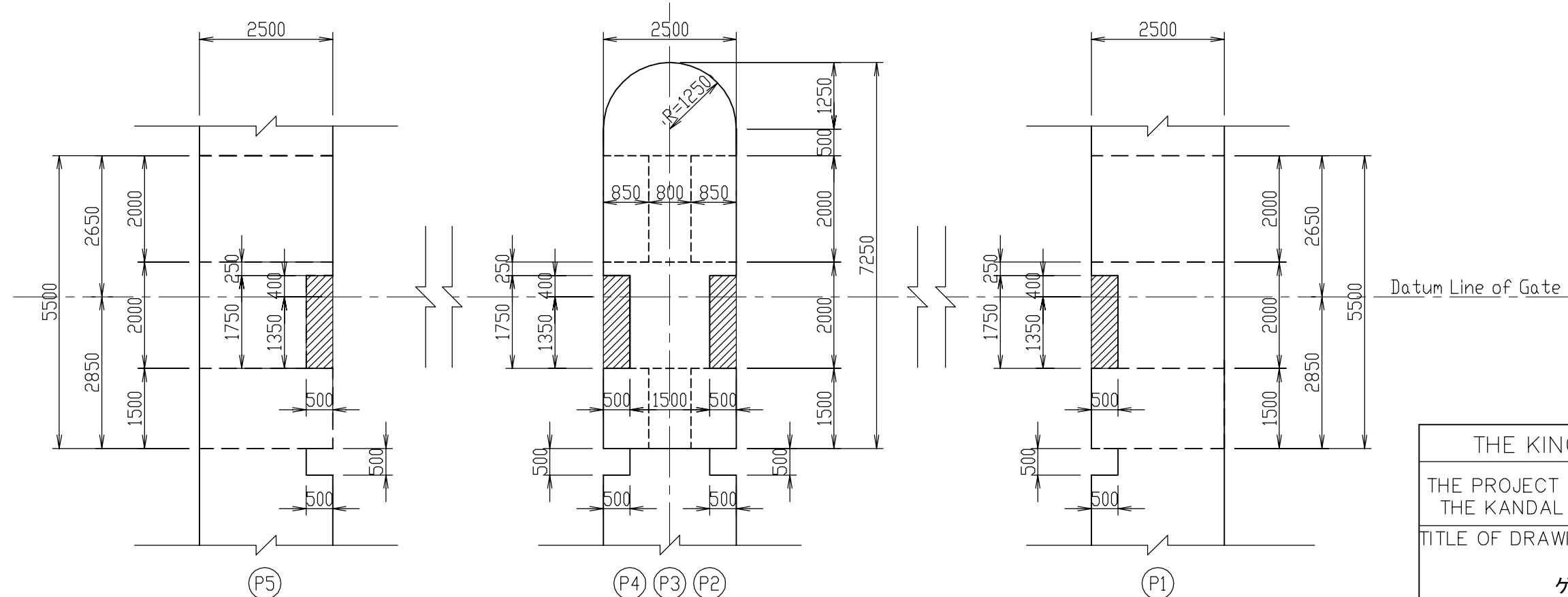
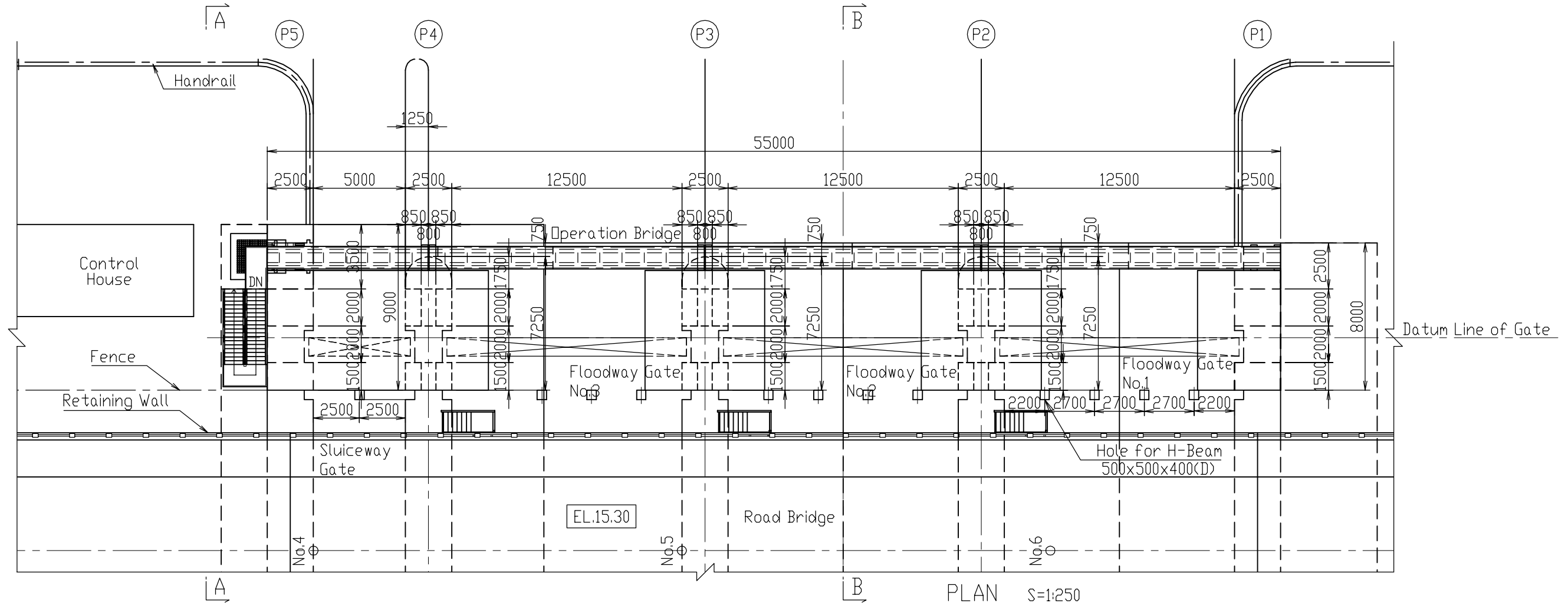
SECTION Q - Q S=1:200



SECTION P - P S=1:200

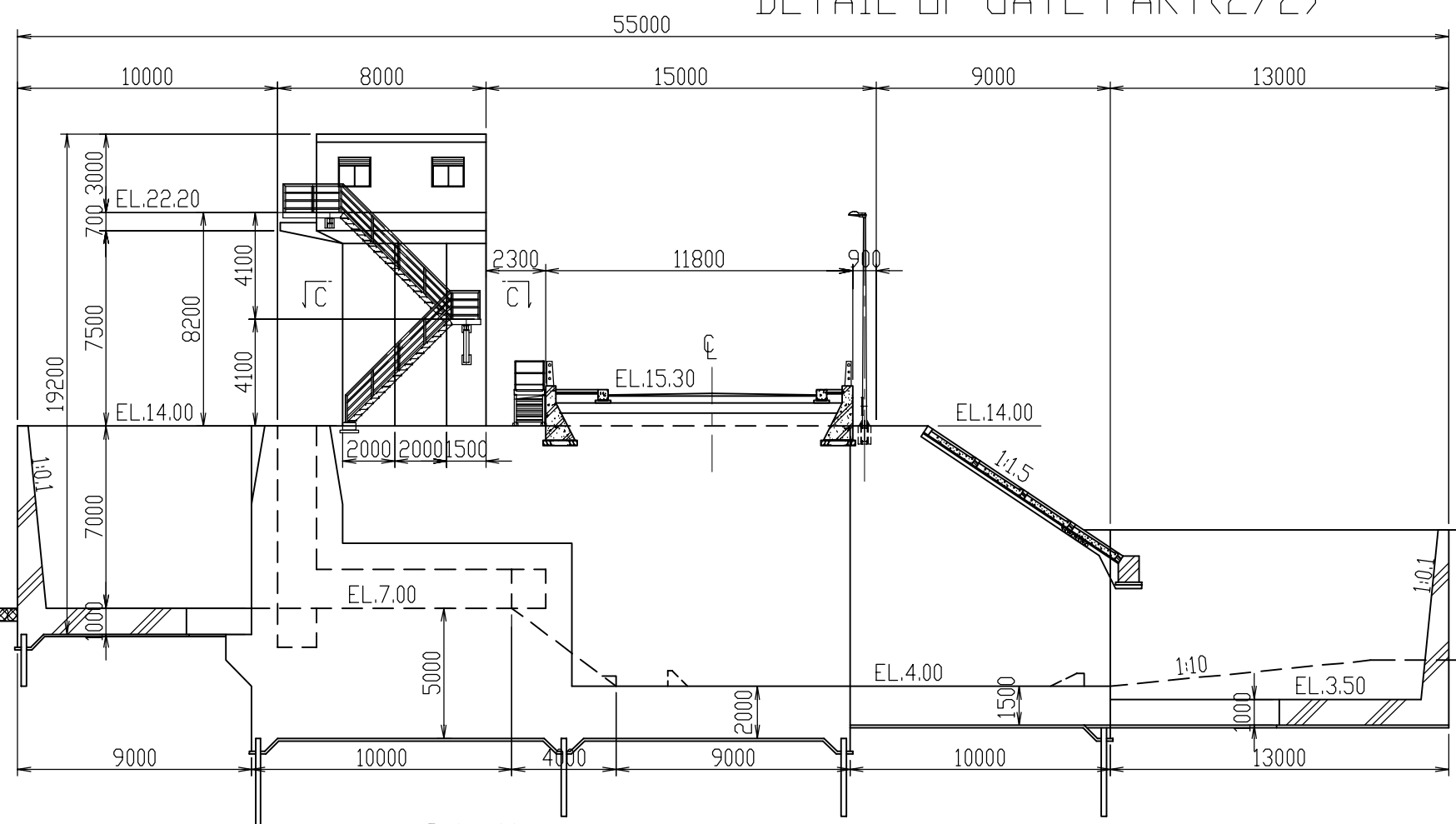
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 構造図 (6/6)		
DATE	DRAWING NO.	2-11
NIPPON KOEI CO., LTD., JAPAN		

# DETAIL OF GATE PART(1/2)

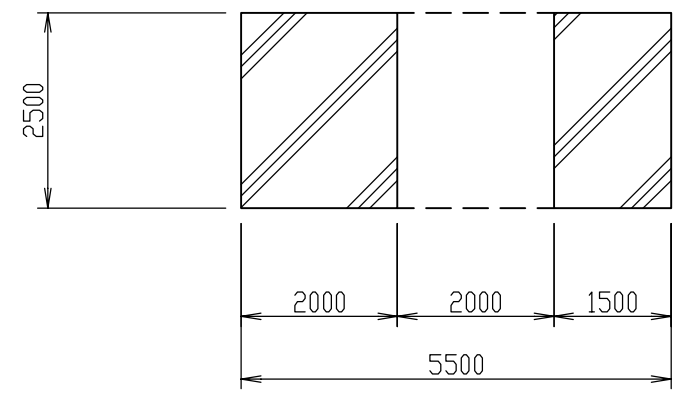


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 ゲート部詳細図(1/2)		
DATE	DRAWING NO.	2-12
NIPPON KOEI CO., LTD., JAPAN		

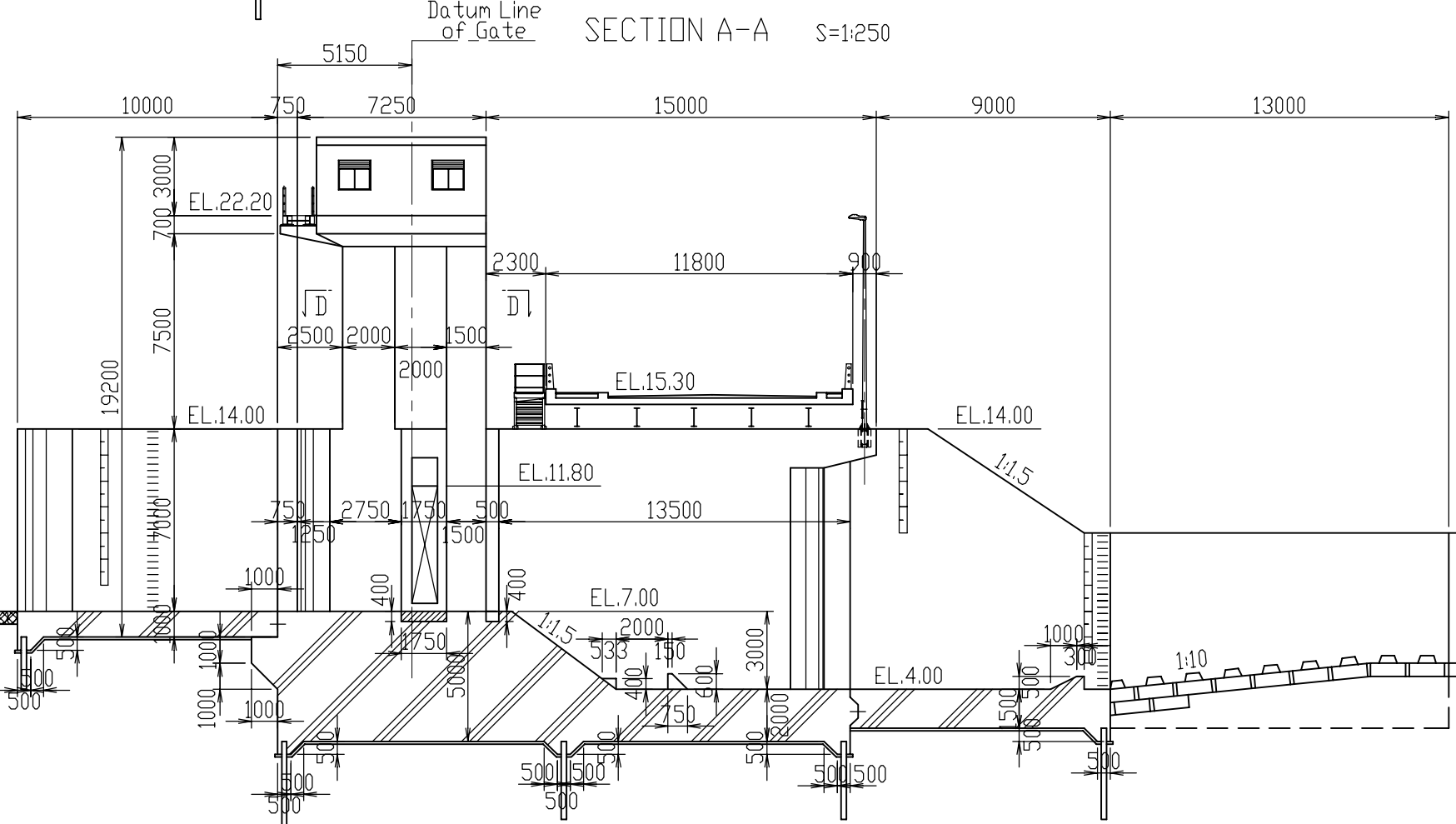
# DETAIL OF GATE PART(2/2)



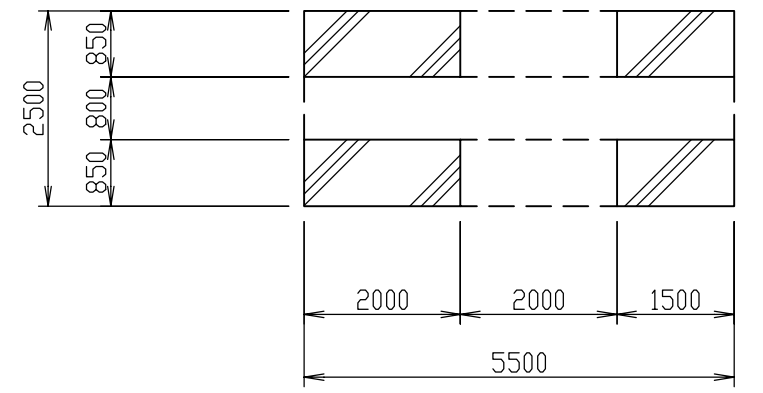
SECTION A-A S=1:250



SECTION C-C S=1:100



SECTION B-B S=1:250

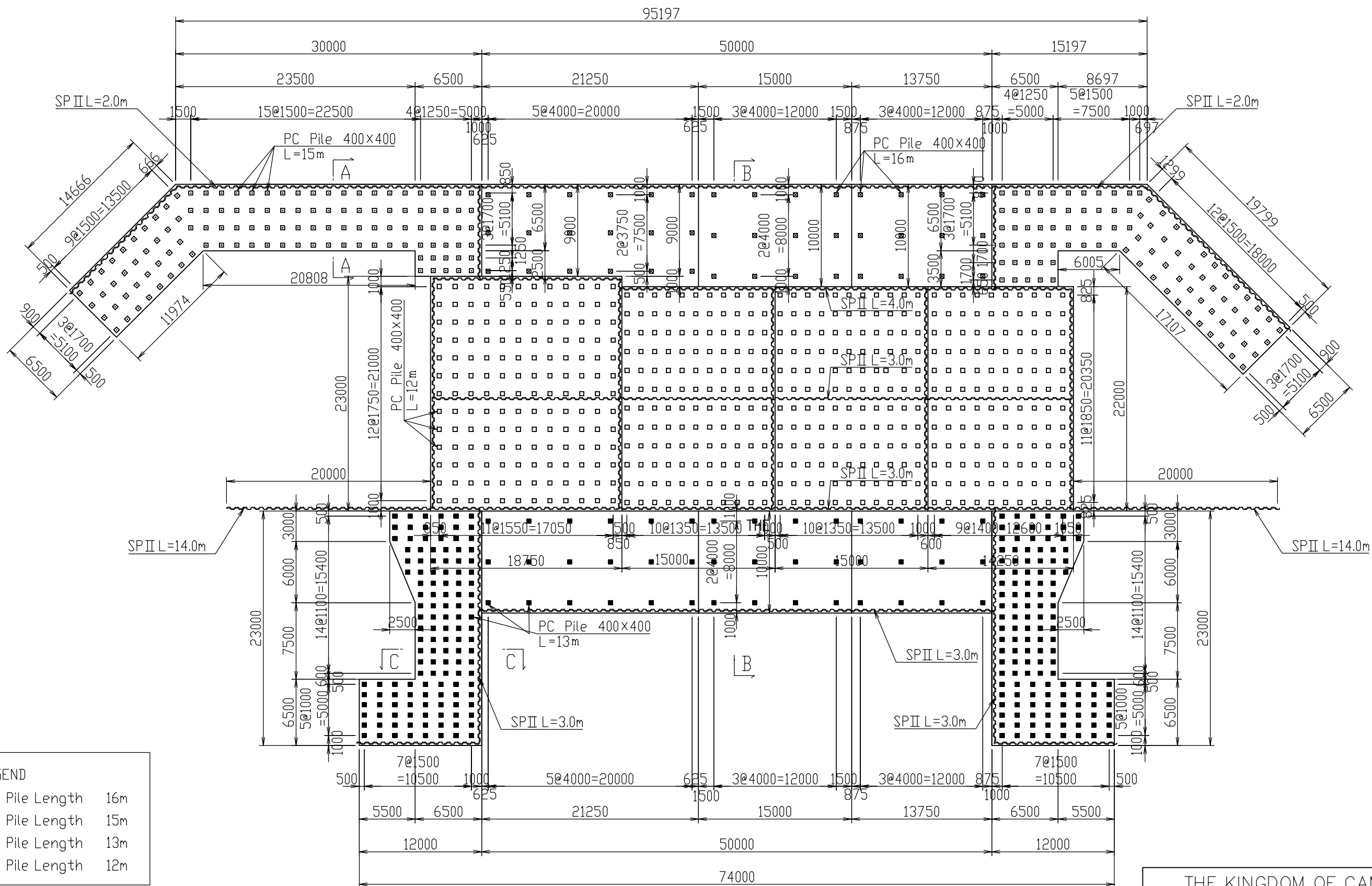


SECTION D-D S=1:100

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 ゲート部詳細図(2/2)		
DATE	DRAWING NO.	2-13
NIPPON KOEI CO., LTD., JAPAN		



# FOUNDATION(1/2)

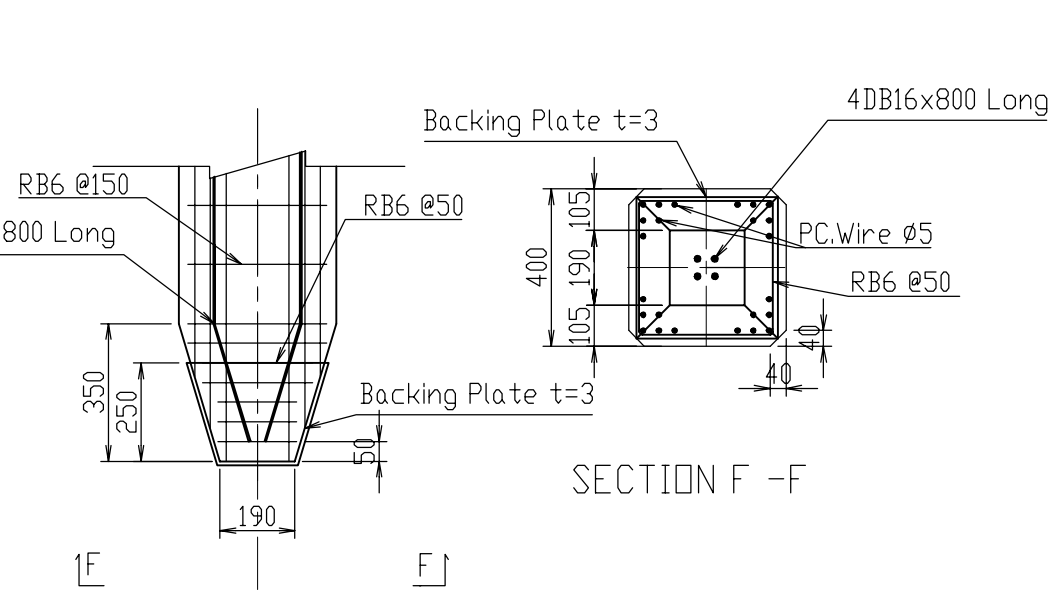
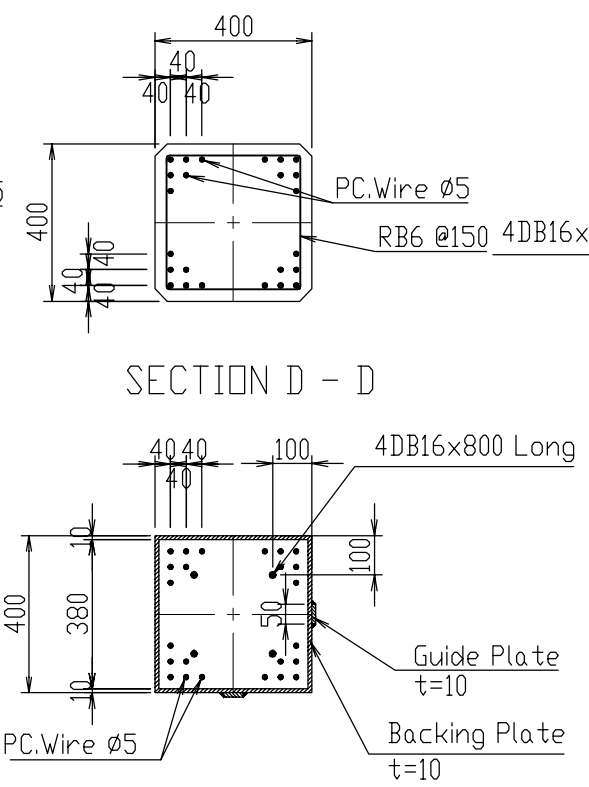
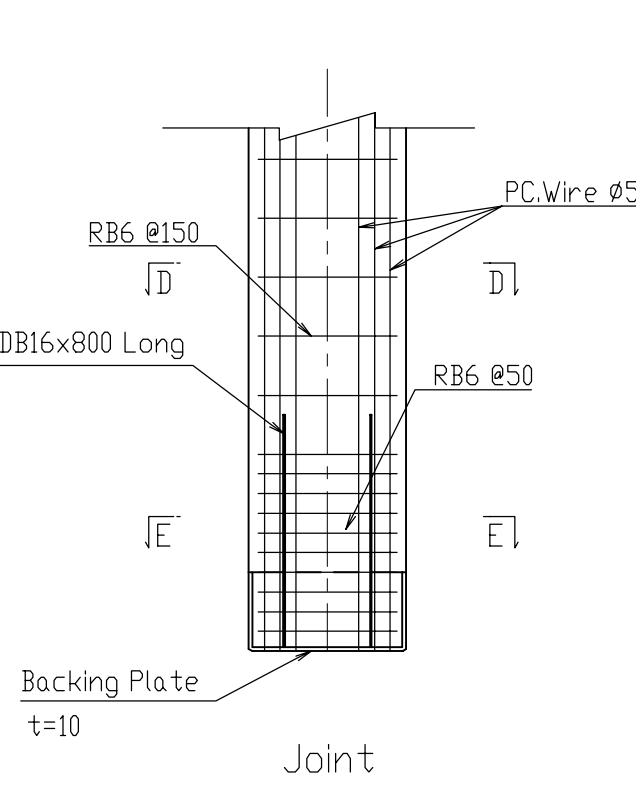
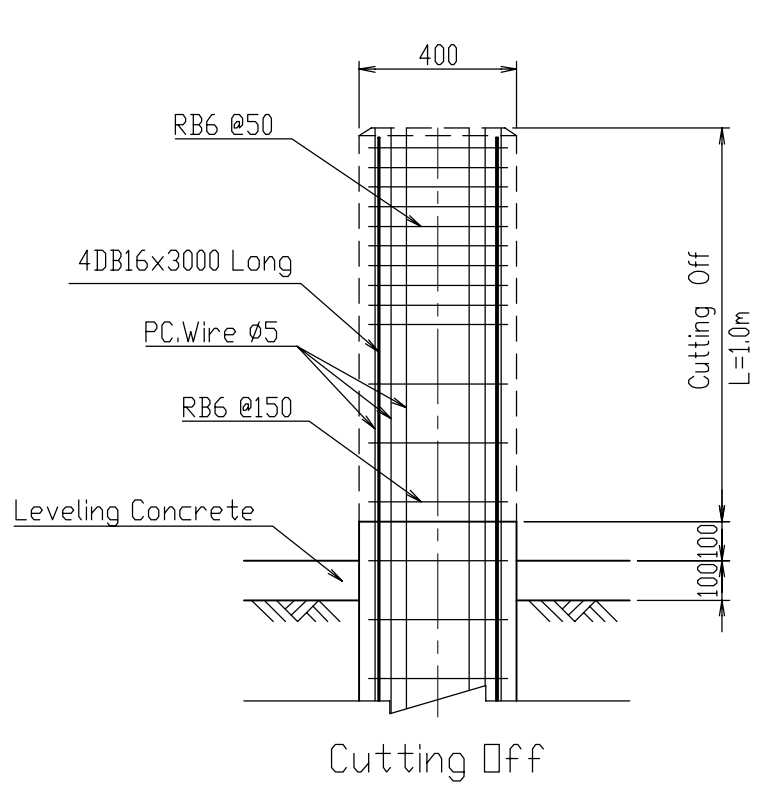
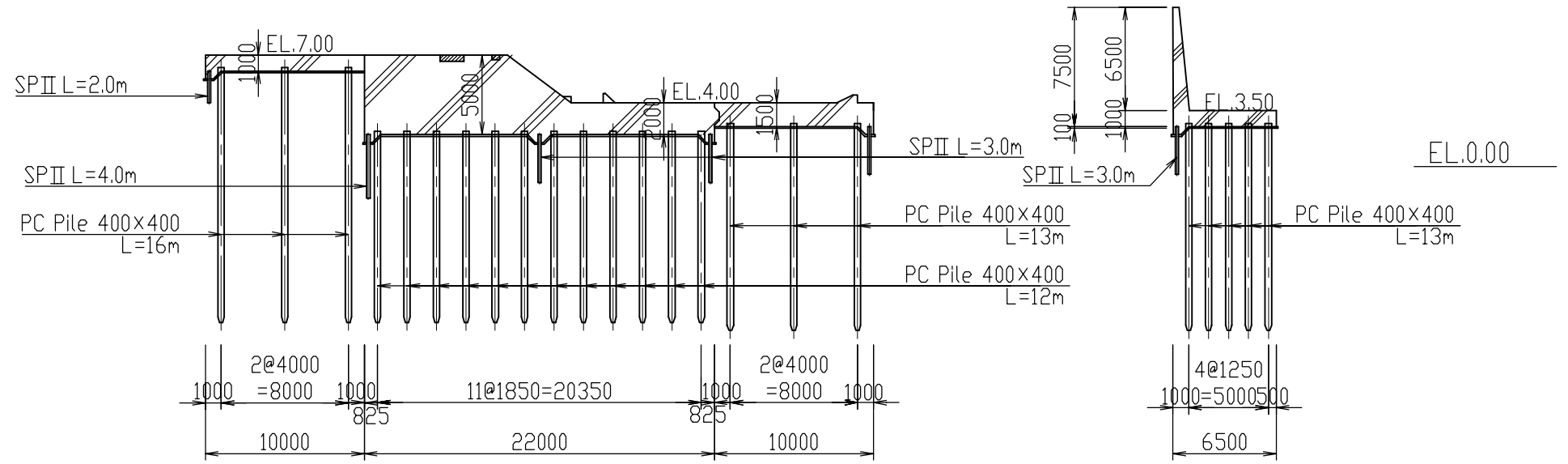
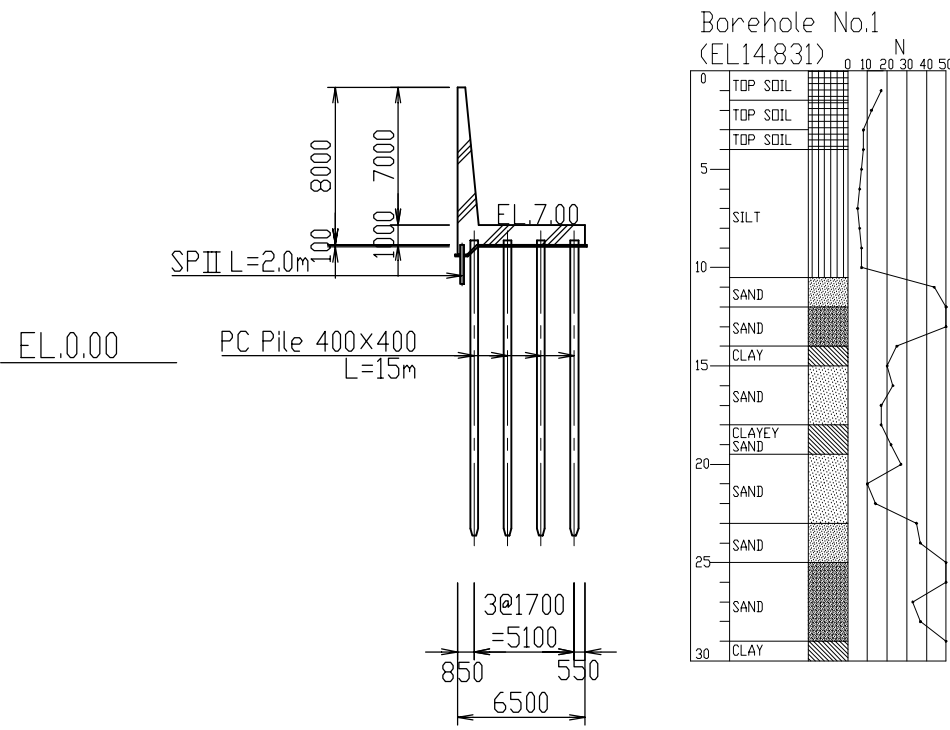


LEGEND	
☒	Pile Length 16m
□	Pile Length 15m
■	Pile Length 13m
□	Pile Length 12m

PLAN S=1:400

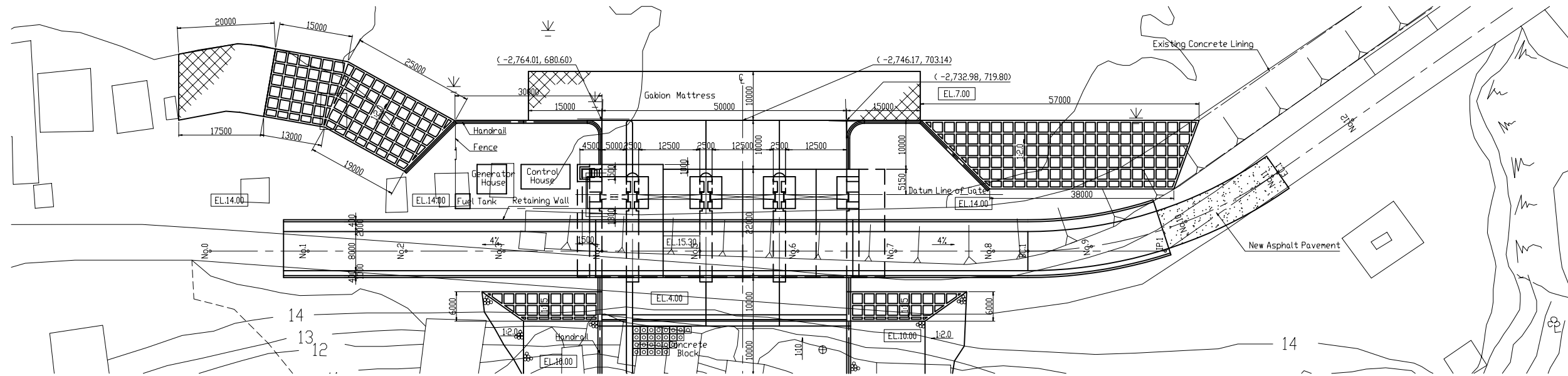
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 杭基礎平面図		
DATE	DRAWING NO.	2-14
NIPPON KOEI CO., LTD., JAPAN		

# FOUNDATION(2/2)

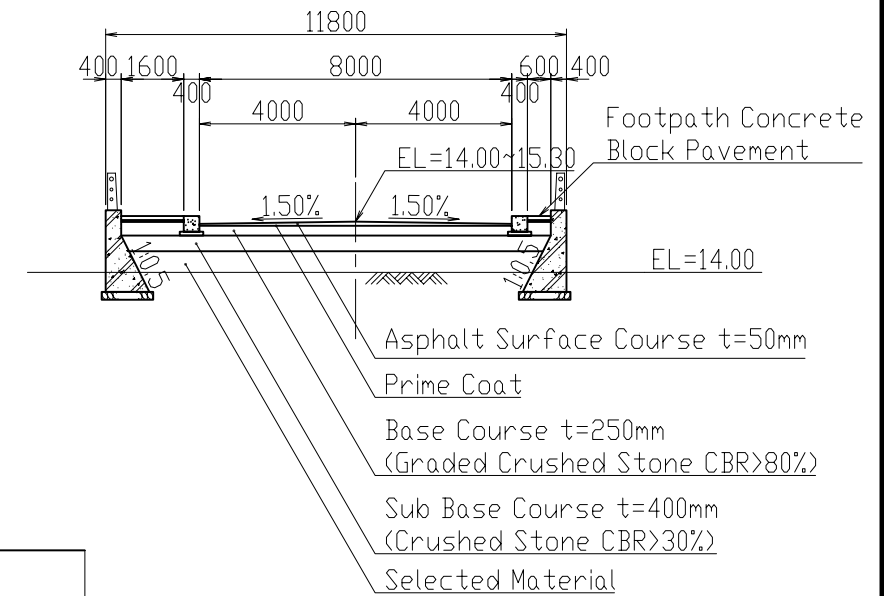


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 杭基礎断面図		
DATE	DRAWING NO.	2-15
NIPPON KOEI CO., LTD., JAPAN		

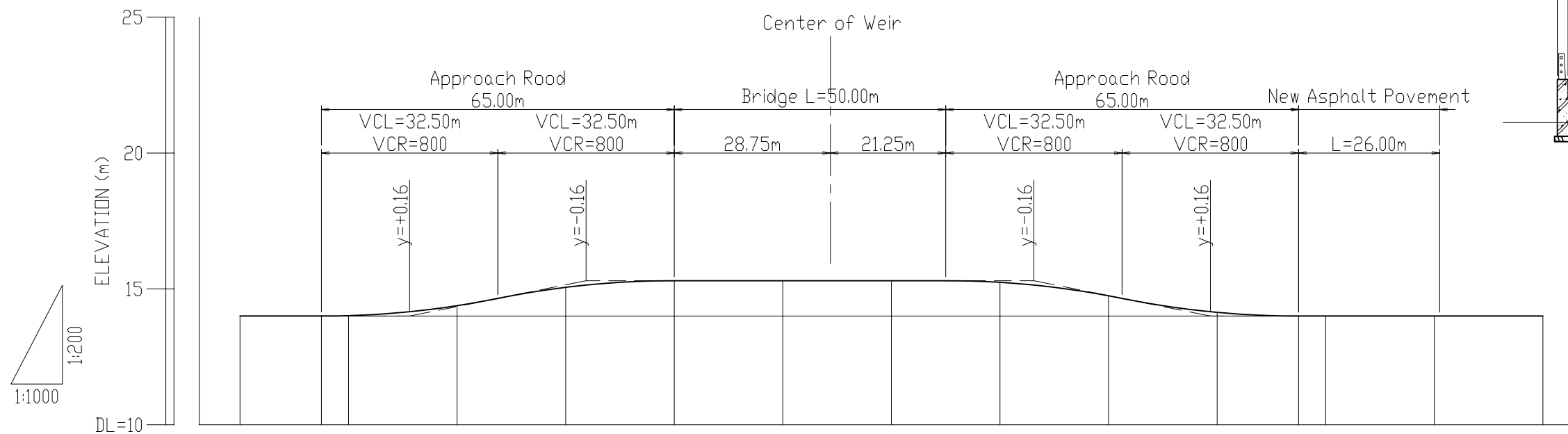
# ROAD ALIGNMENT DESIGN TO NATIONAL ROAD



PLAN S=1:1000



TYPICAL CROSS SECTION OF APPROACH ROAD S=1:200



SLOPE														
DESIGNED ROAD ELEVATION	14.0	14.0	14.0	14.4	15.1	15.3	15.3	15.3	15.2	14.7	14.1	14.0	14.0	14.0
EXISTING ROAD ELEVATION	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
ACCUMULATED DISTANCE	0	15	20	40	60	80	100	120	140	160	180	195	200	220
DISTANCE	0	15	5	20	20	20	20	20	20	20	20	15	5	20
STATION NO.	0	0+15m	1	2	3	4	5	6	7	8	9	9+15m	10	11

PROFILE

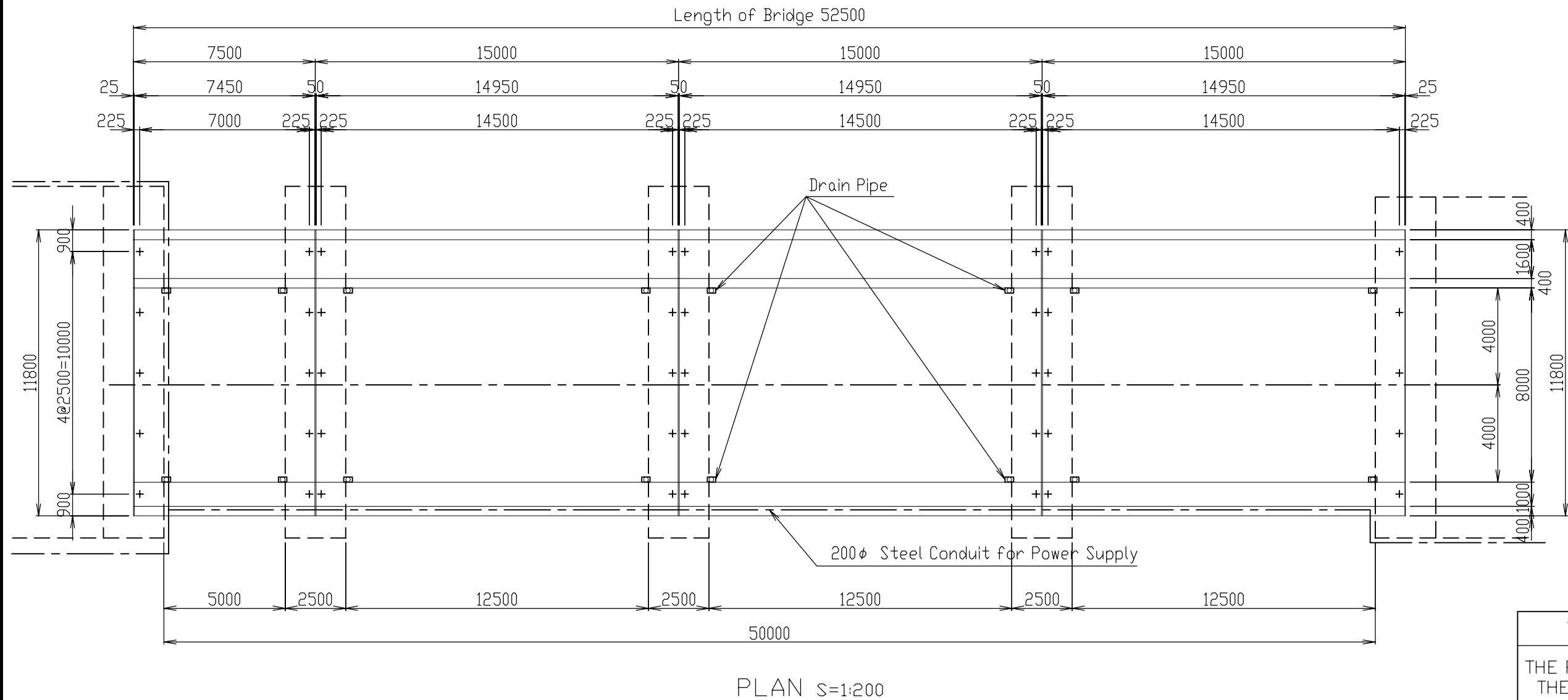
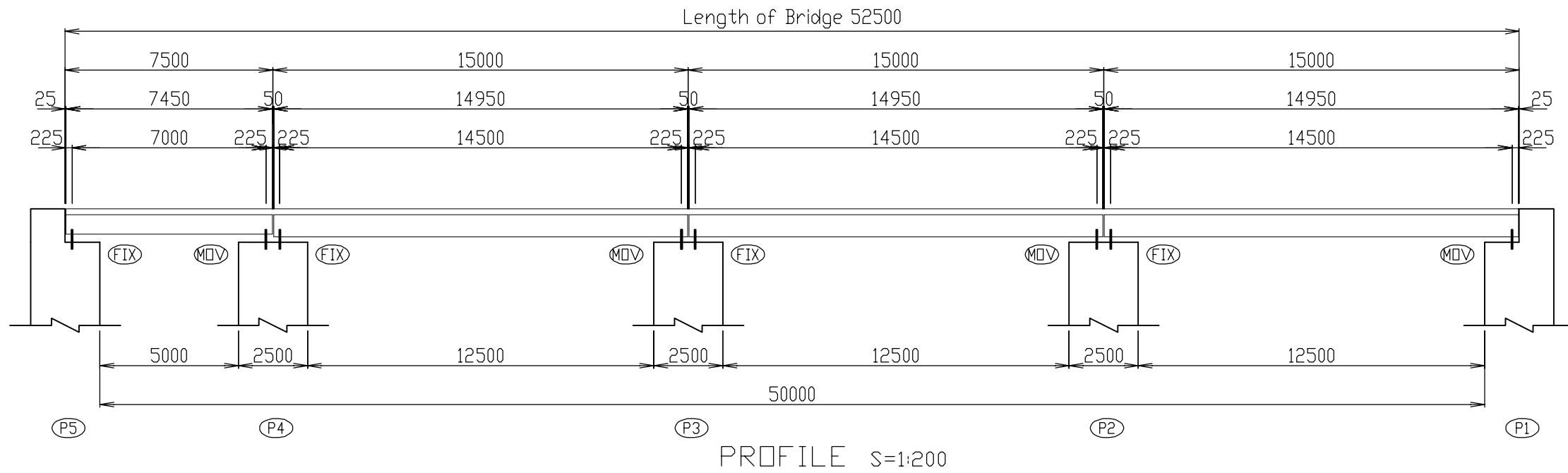
THE KINGDOM OF CAMBODIA

THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM

TITLE OF DRAWING  
**頭首工  
 計画道路線形図**

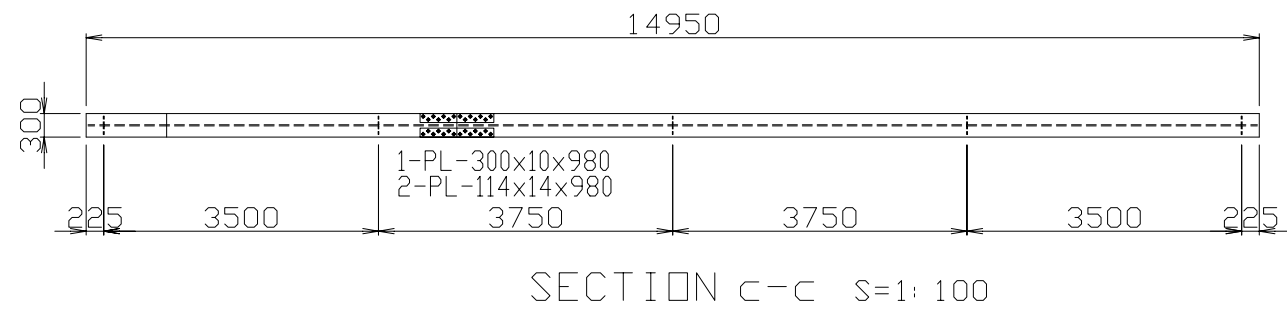
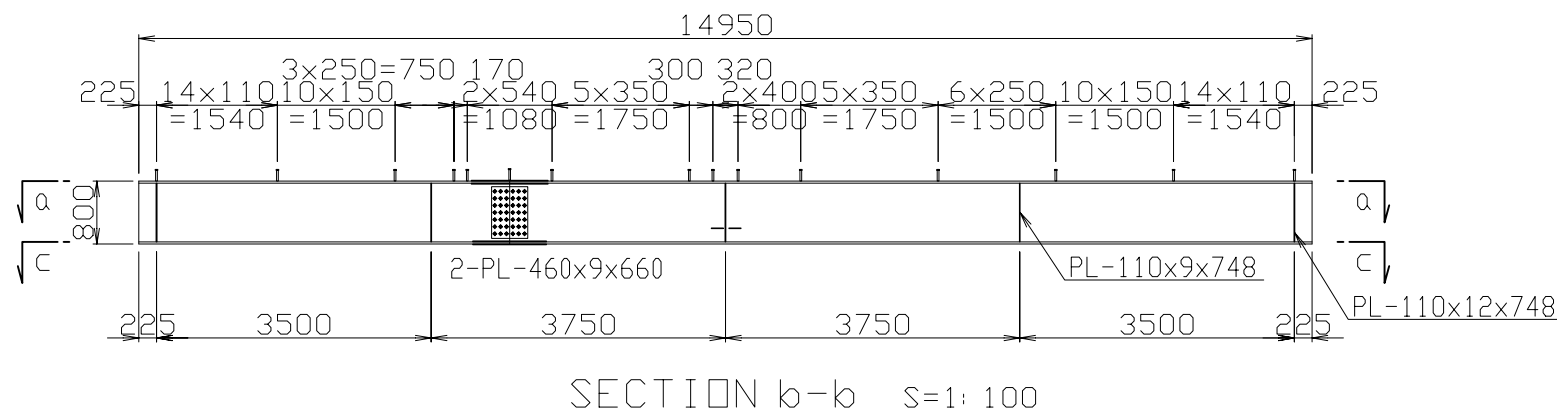
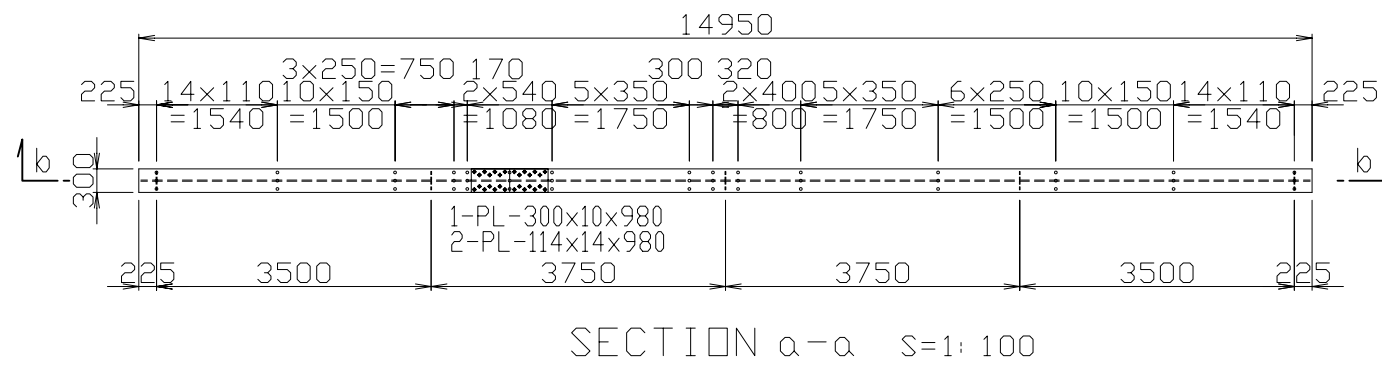
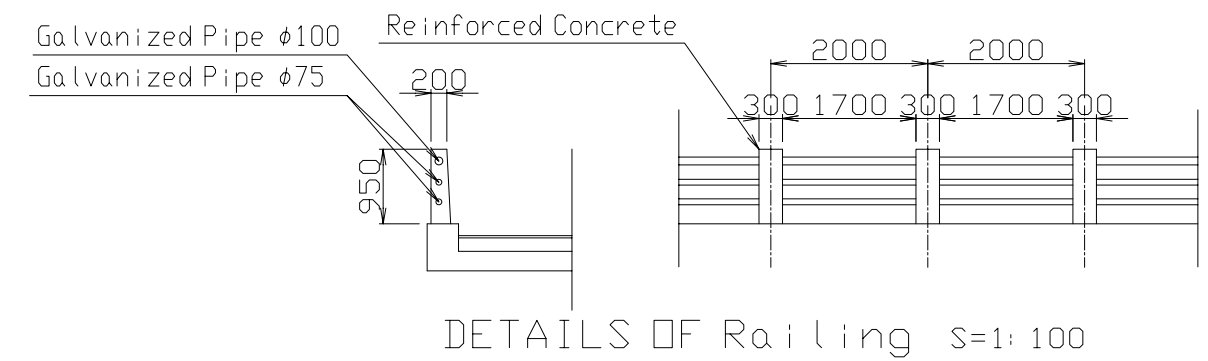
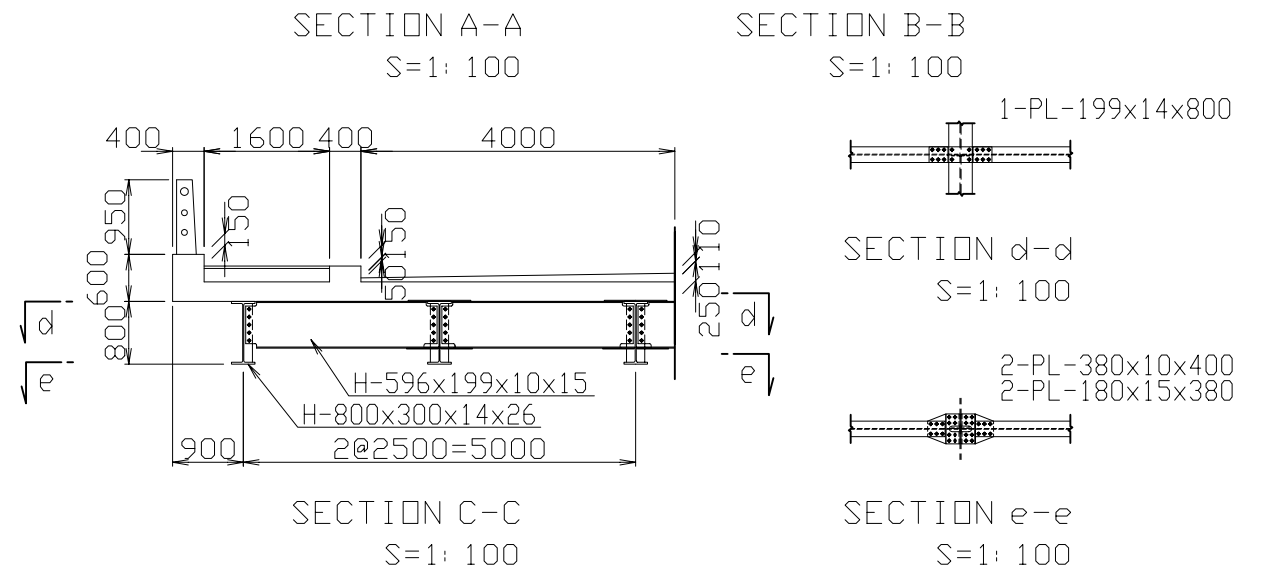
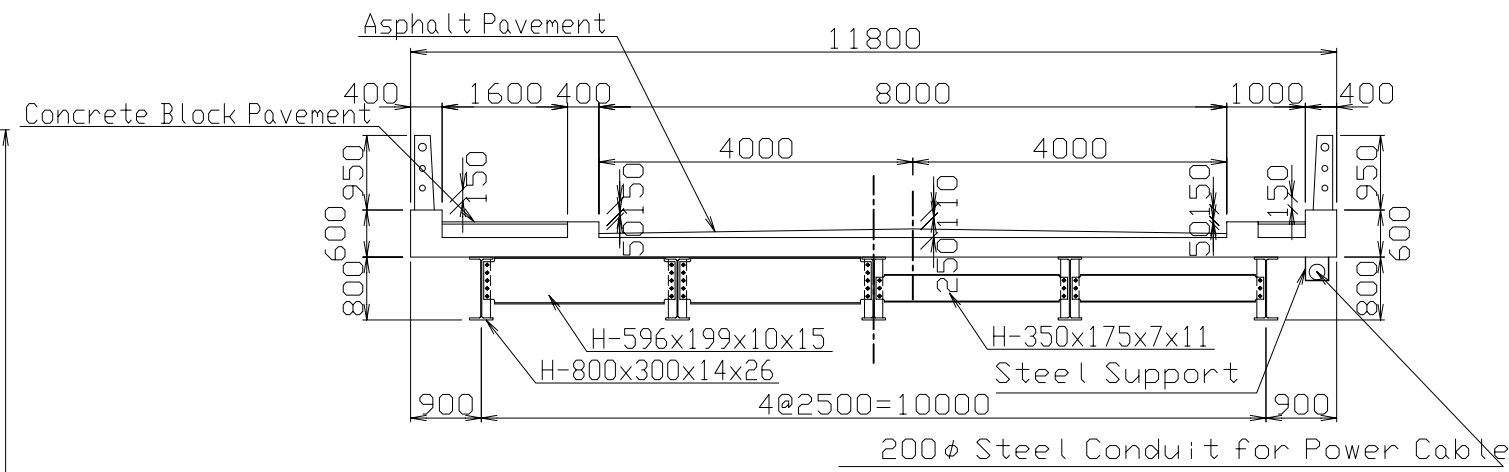
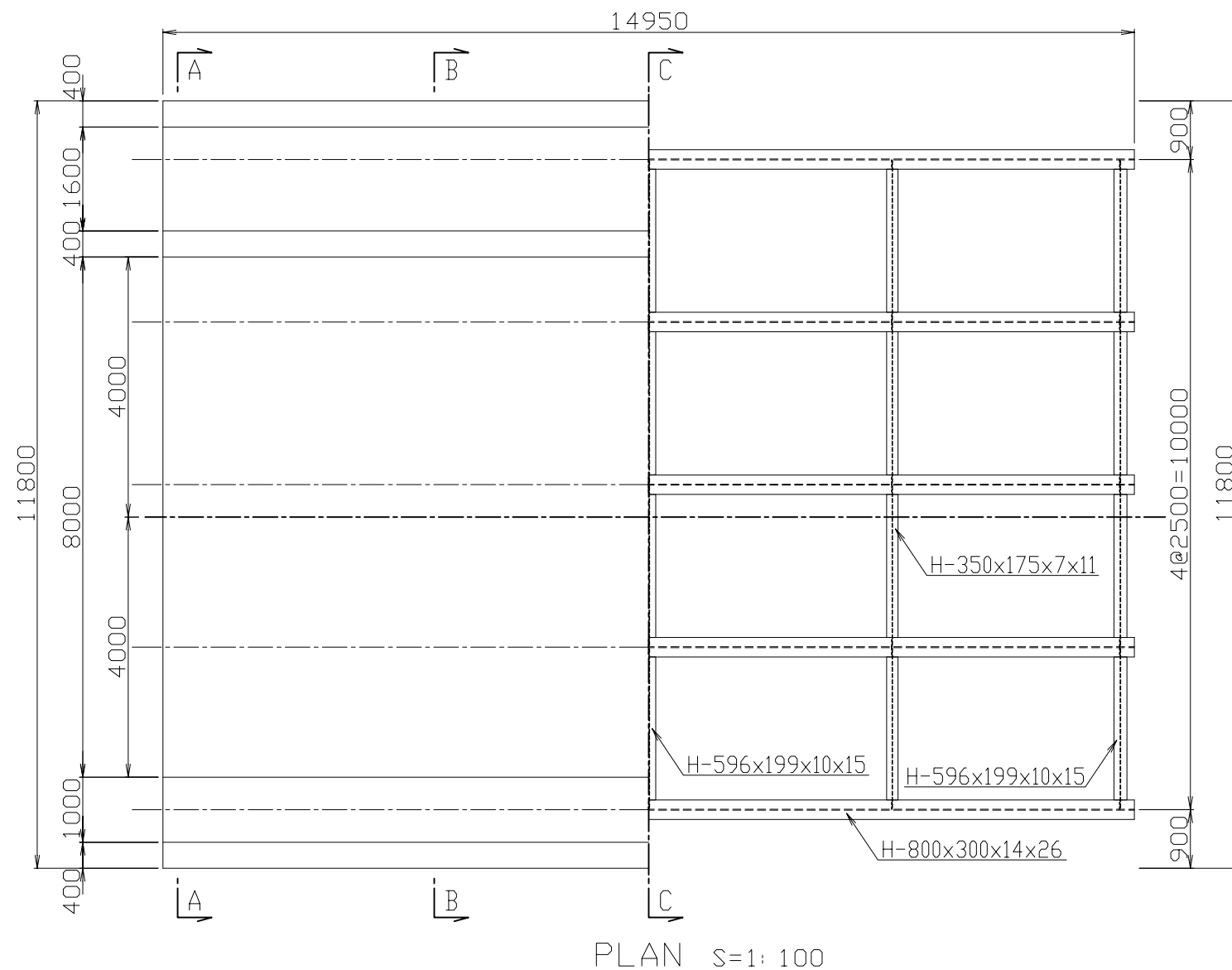
DATE	DRAWING NO.	2-16
NIPPON KOEI CO., LTD., JAPAN		

# ROAD BRIDGE (1/3)



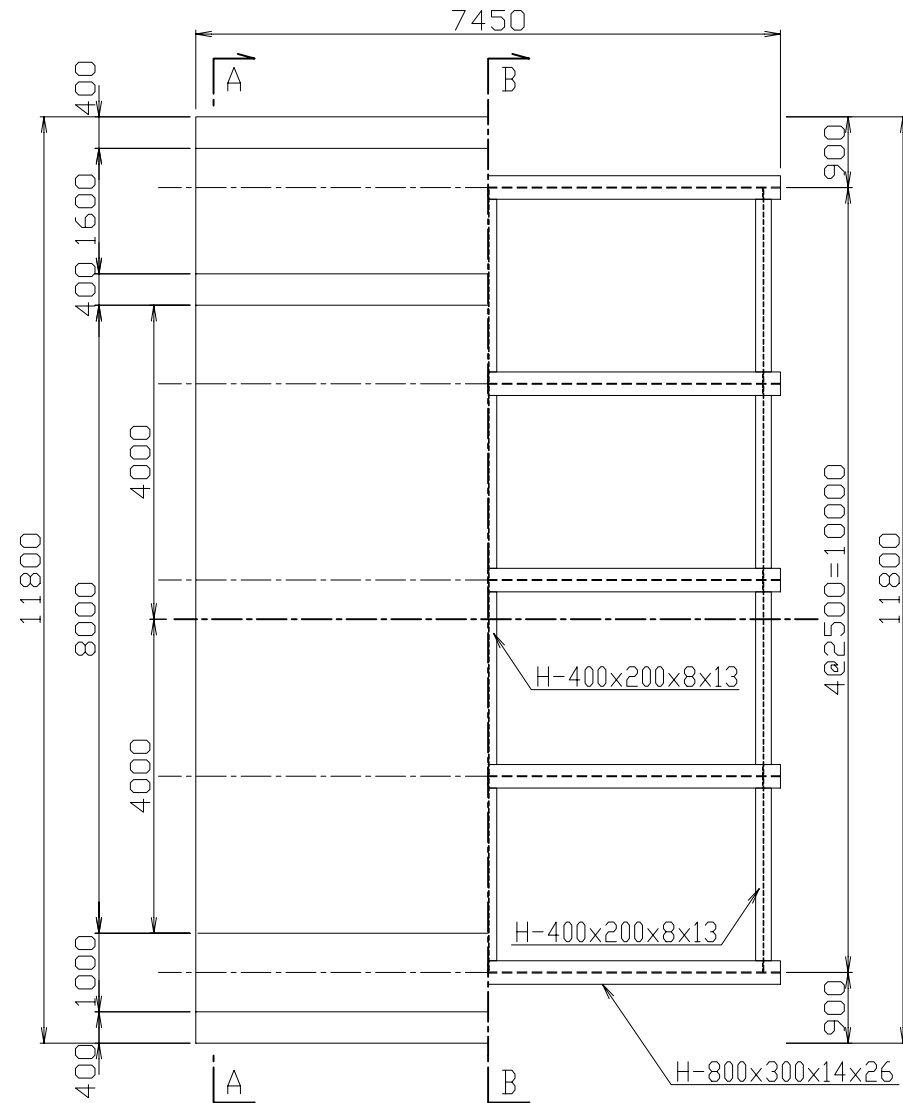
THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING 頭首工 道路橋 (1/3)			
DATE		DRAWING NO.	2-17
NIPPON KOEI CO., LTD., JAPAN			

# ROAD BRIDGE (2/3)

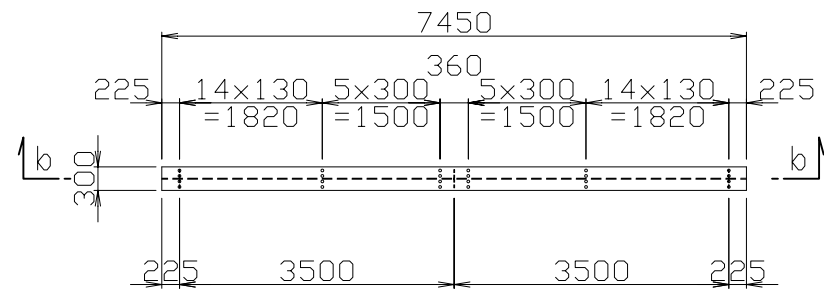


THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING			
頭首工 道路橋(2/3)			
DATE		DRAWING NO.	2-18
NIPPON KOEI CO., LTD., JAPAN			

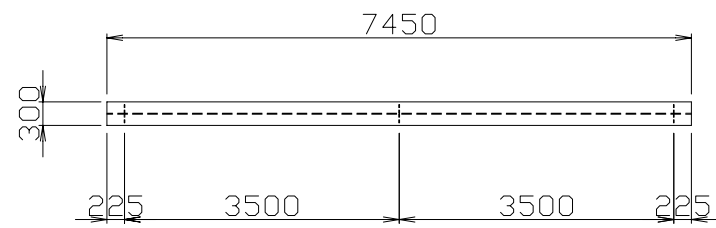
# ROAD BRIDGE (3/3)



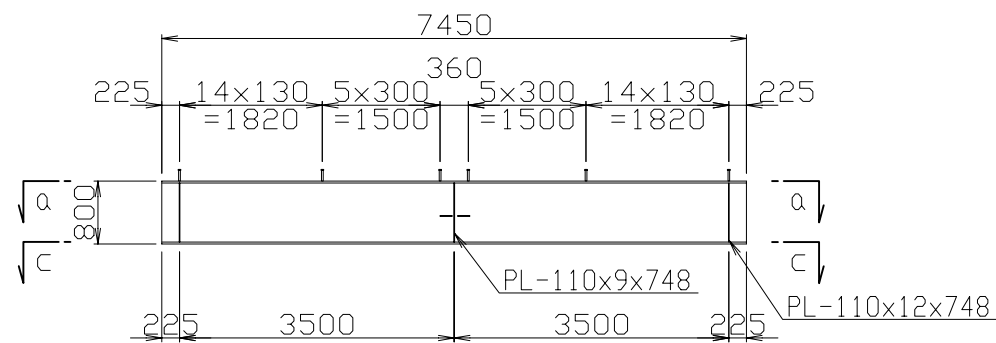
PLAN S=1: 100



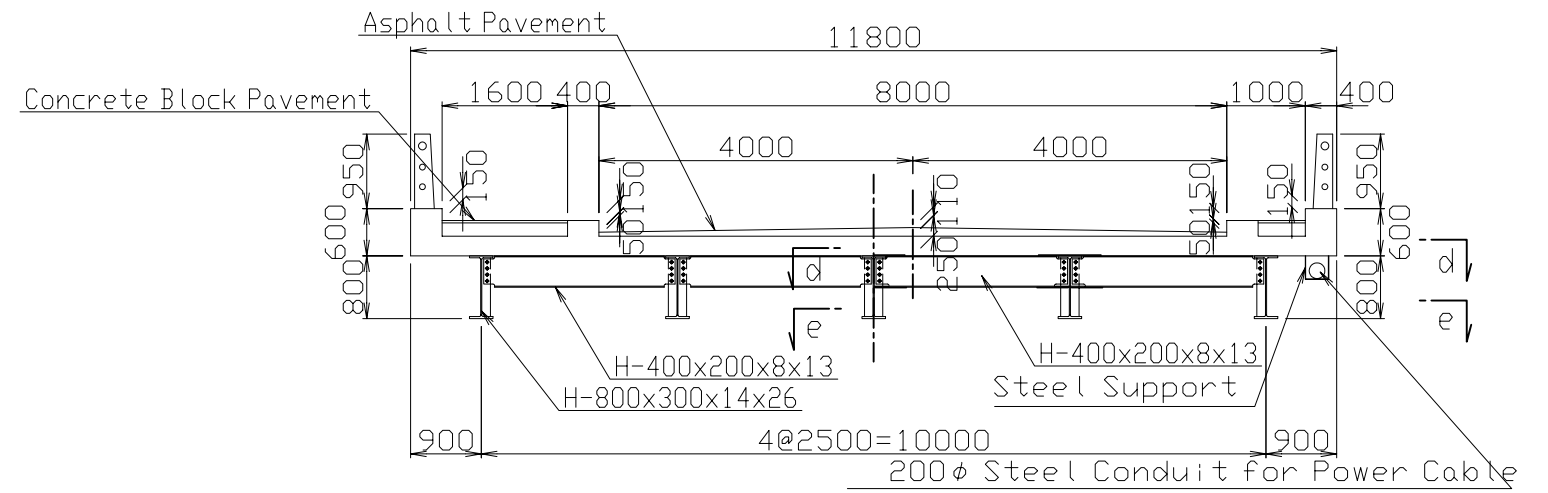
SECTION a-a S=1: 100



SECTION c-c S=1: 100

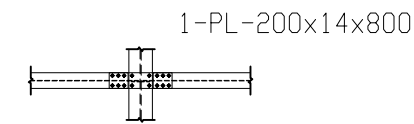


SECTION b-b S=1: 100

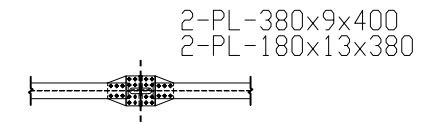


SECTION A-A S=1: 100

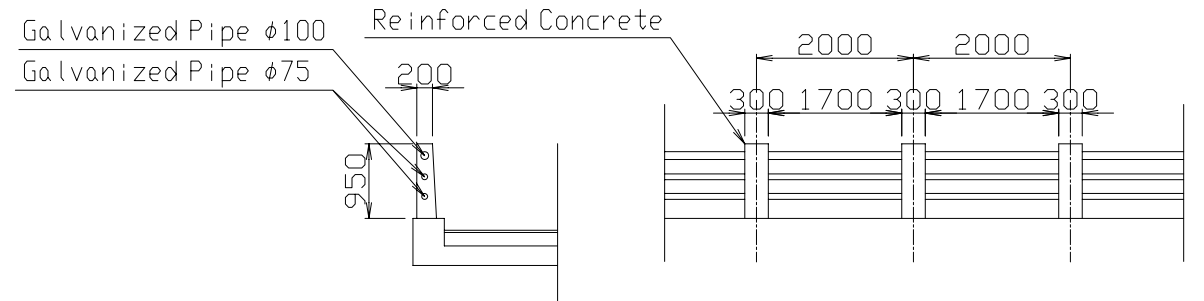
SECTION B-B S=1: 100



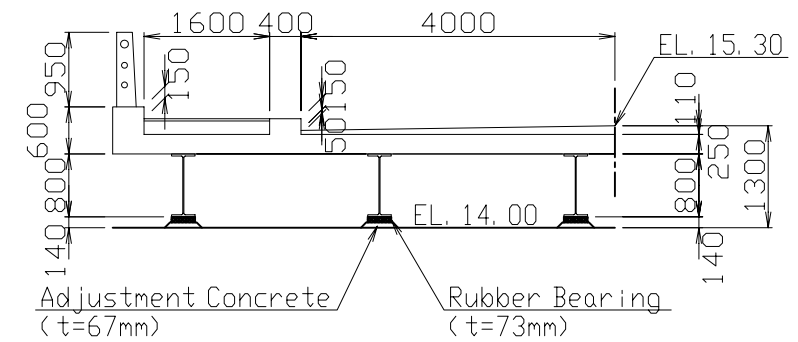
SECTION d-d S=1: 100



SECTION e-e S=1: 100



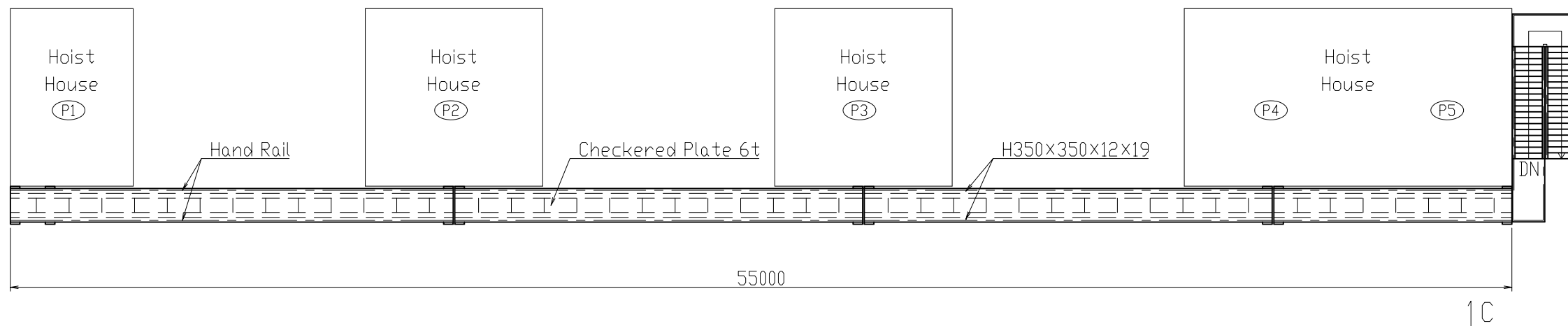
DETAILS OF RAILING S=1: 100



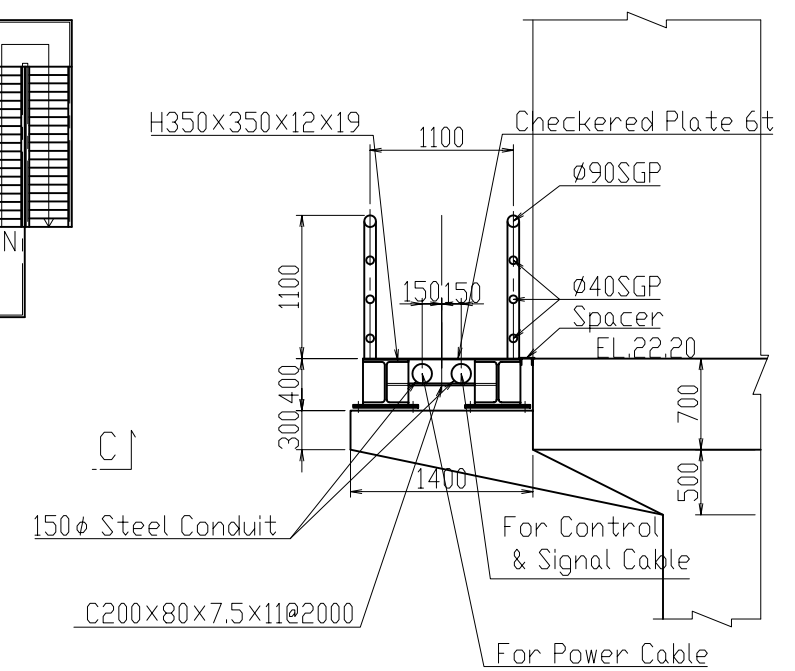
DETAILS OF LEVEL S=1: 100

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
頭首工 道路橋(3/3)		
DATE	DRAWING NO.	2-19
NIPPON KOEI CO., LTD., JAPAN		

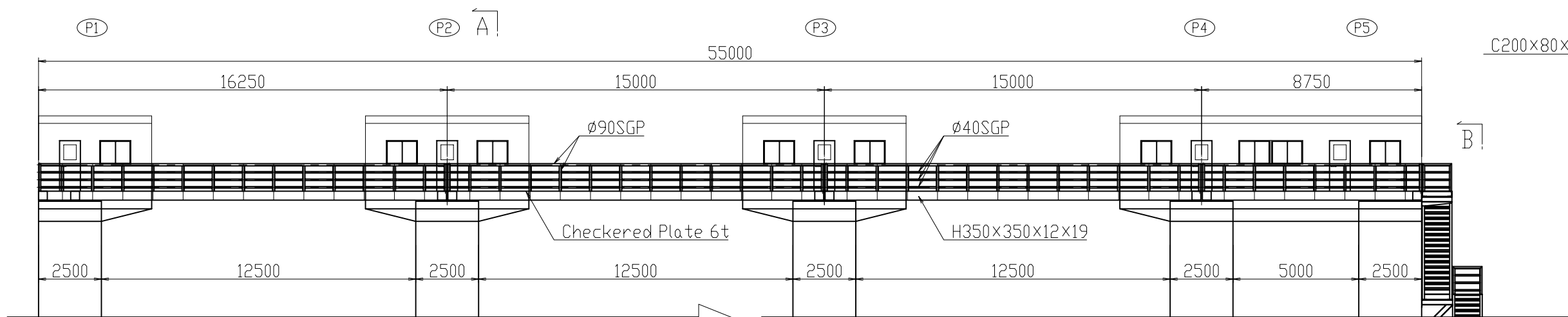
# OPERATION BRIDGE



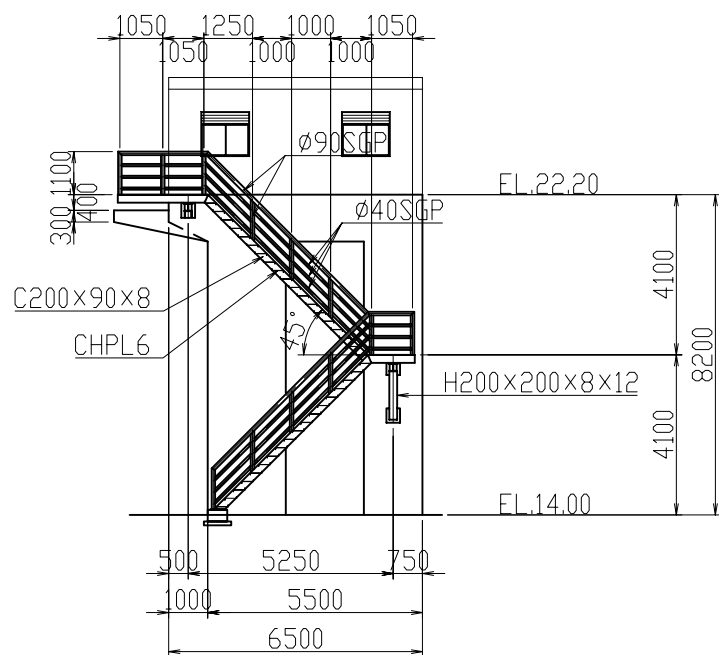
PLAN S=1:200



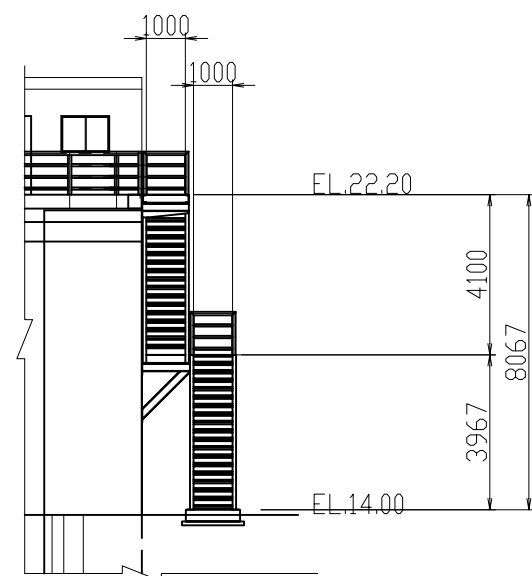
SECTION A-A S=1:60



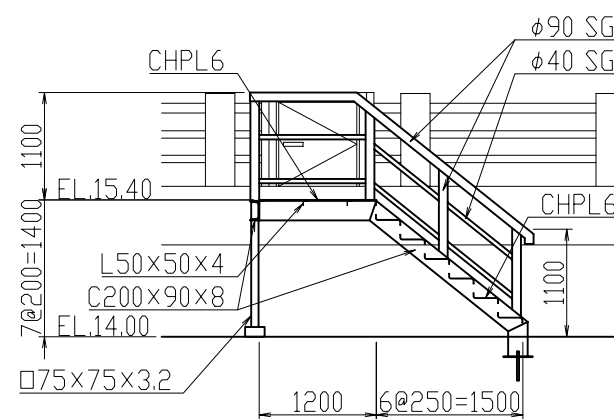
ELEVATION S=1:200



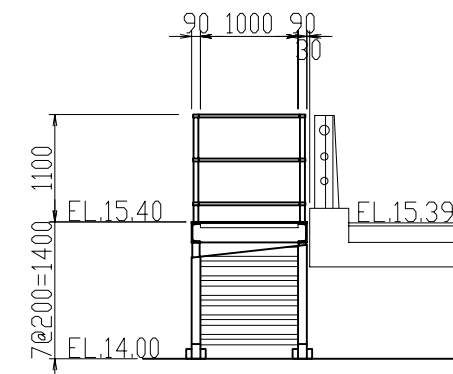
SECTION B-B S=1:200



SECTION C-C S=1:200

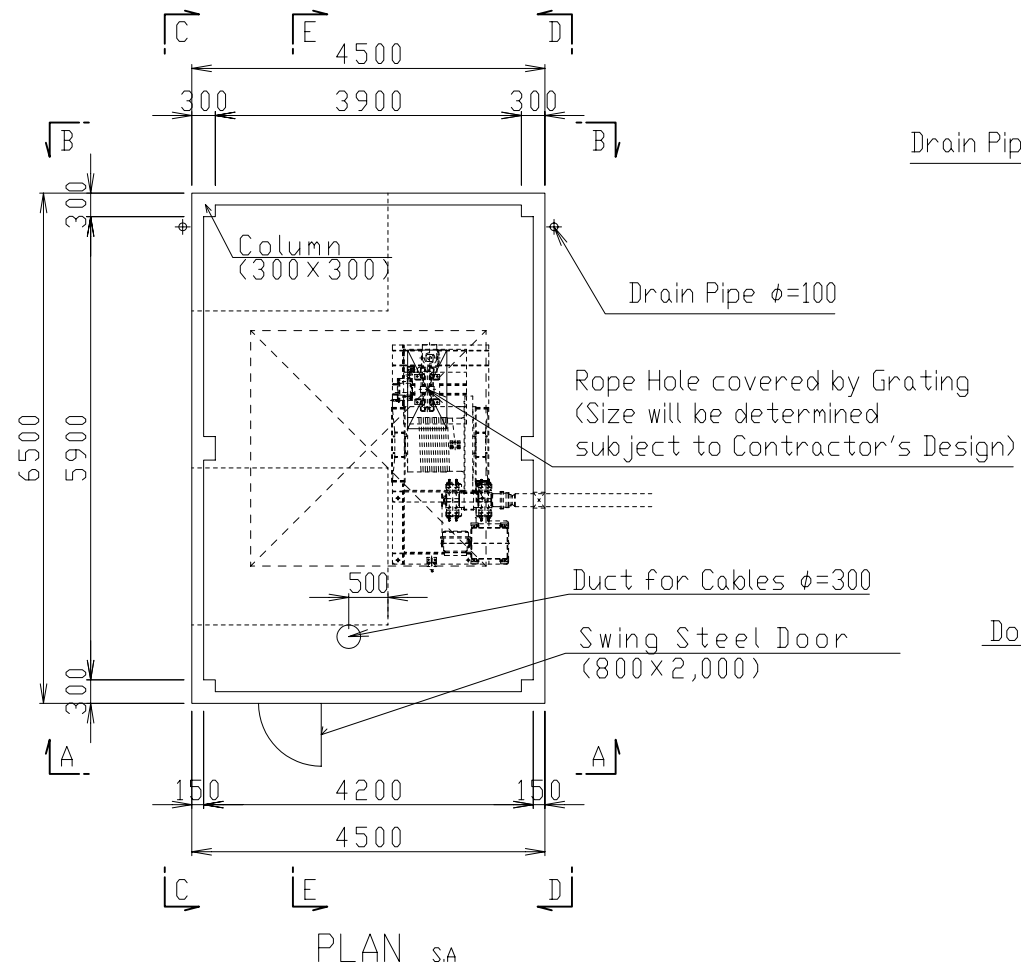


STAIRS FROM ROAD BRIDGE TO PIERS S=1:80

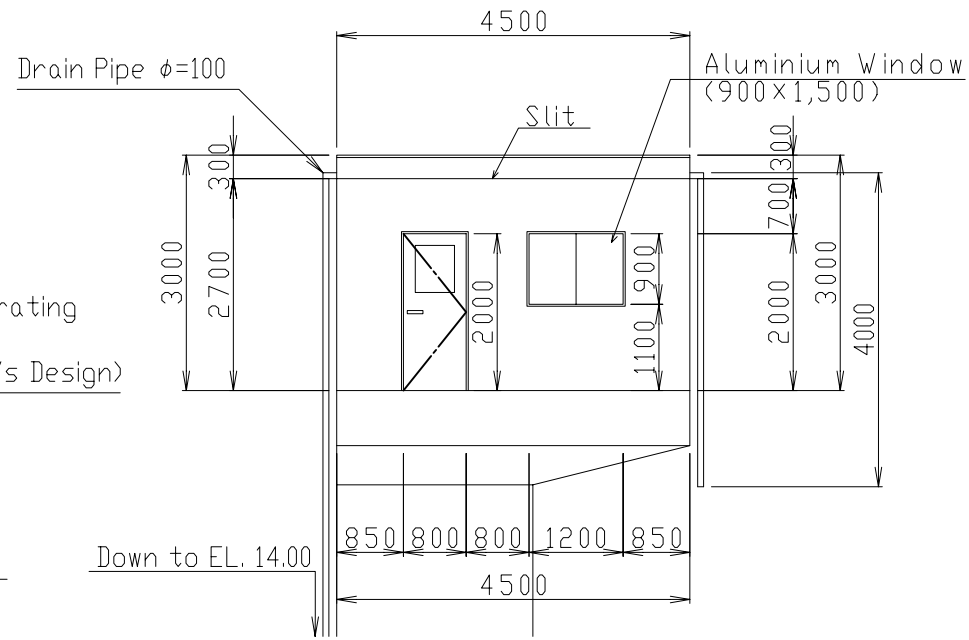


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 管理橋		
DATE	DRAWING NO.	2-20
NIPPON KOEI CO., LTD., JAPAN		

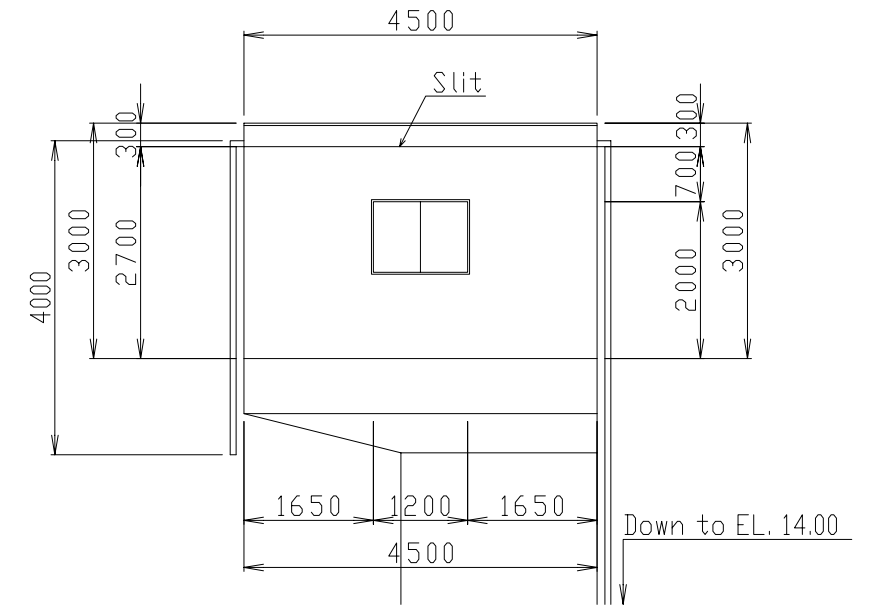
# HOIST HOUSE(1/4) (P1)



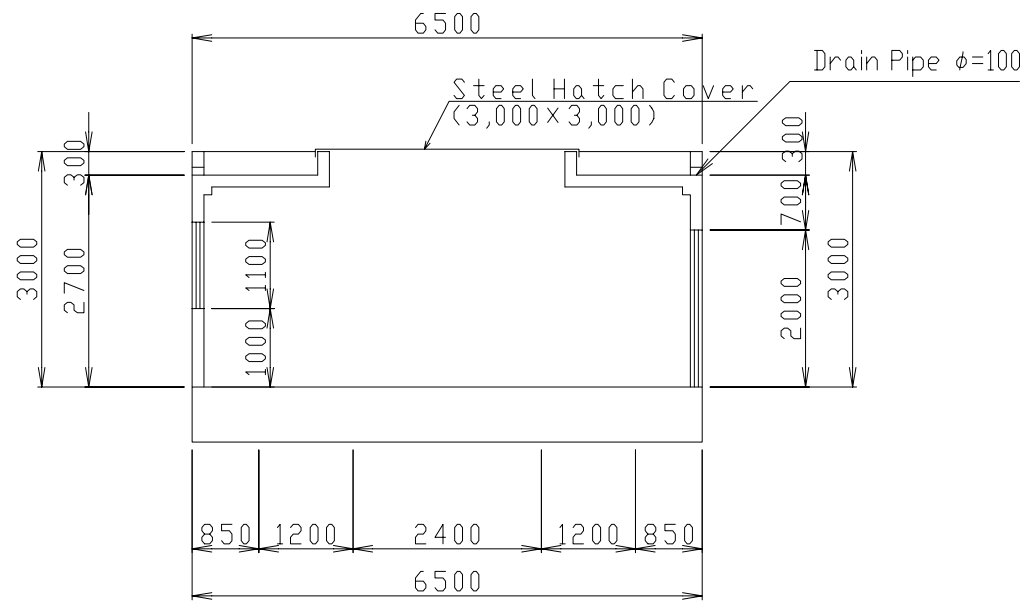
PLAN SA



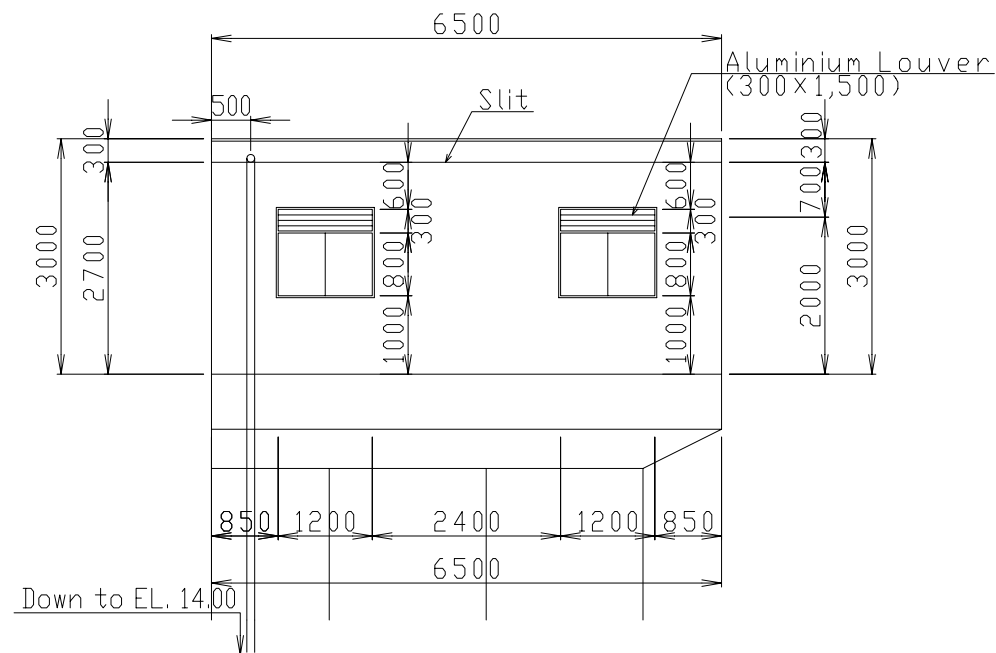
SECTION A-A SA



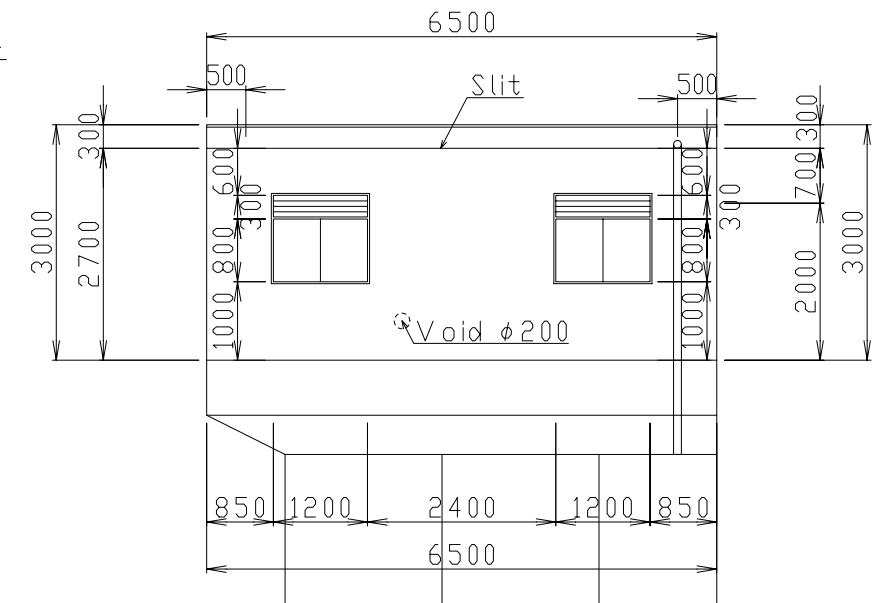
SECTION B-B SA



SECTION E-E SA



SECTION C-C SA



SECTION D-D SA

S.A  
(1/100)

SCALE V = SCALE H

0 1.0 2.0 3.0 4.0 5.0mm

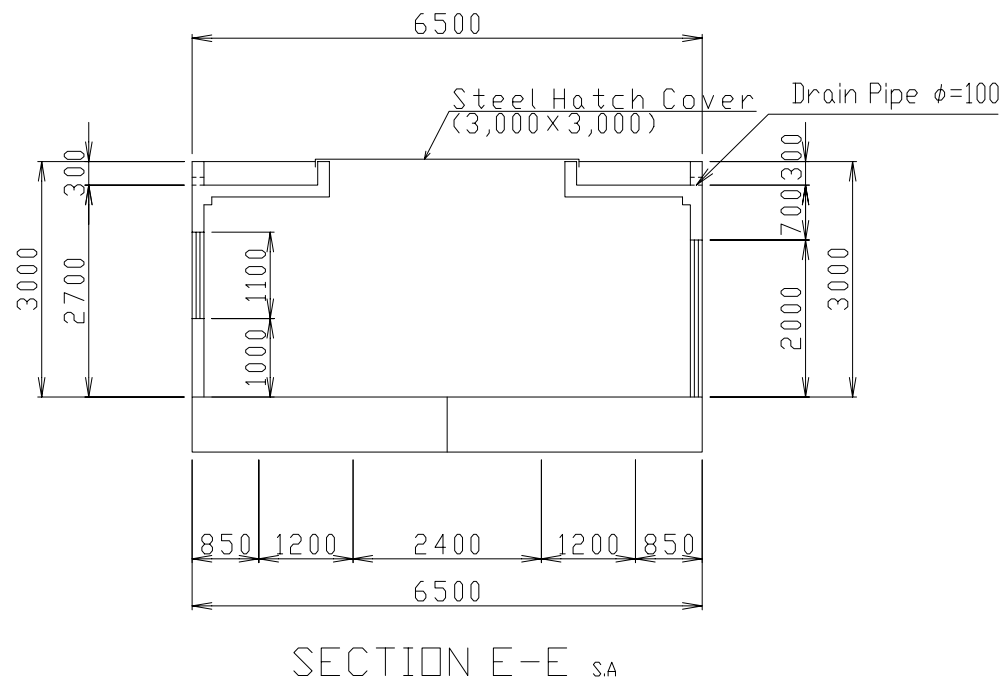
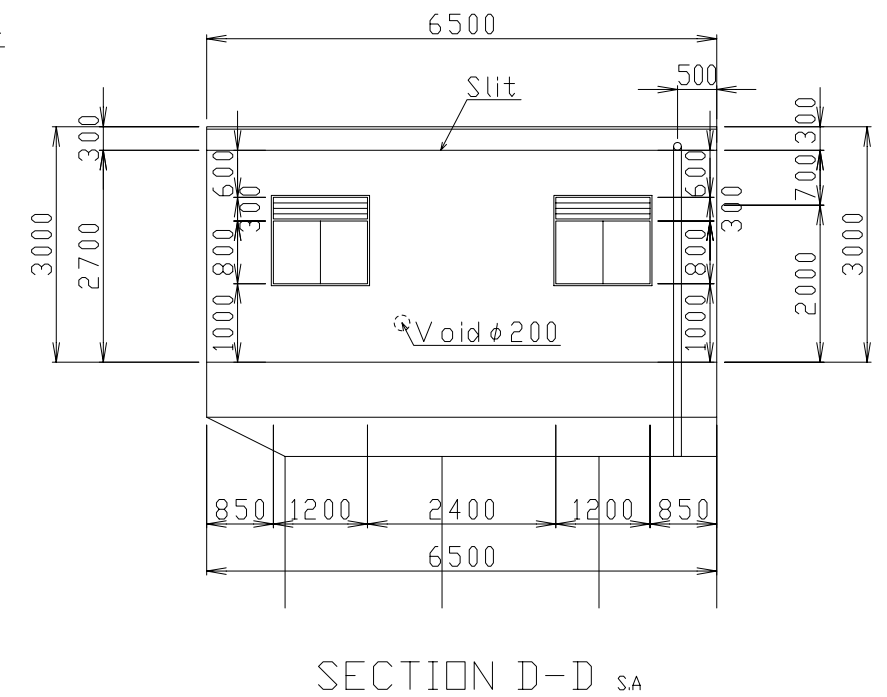
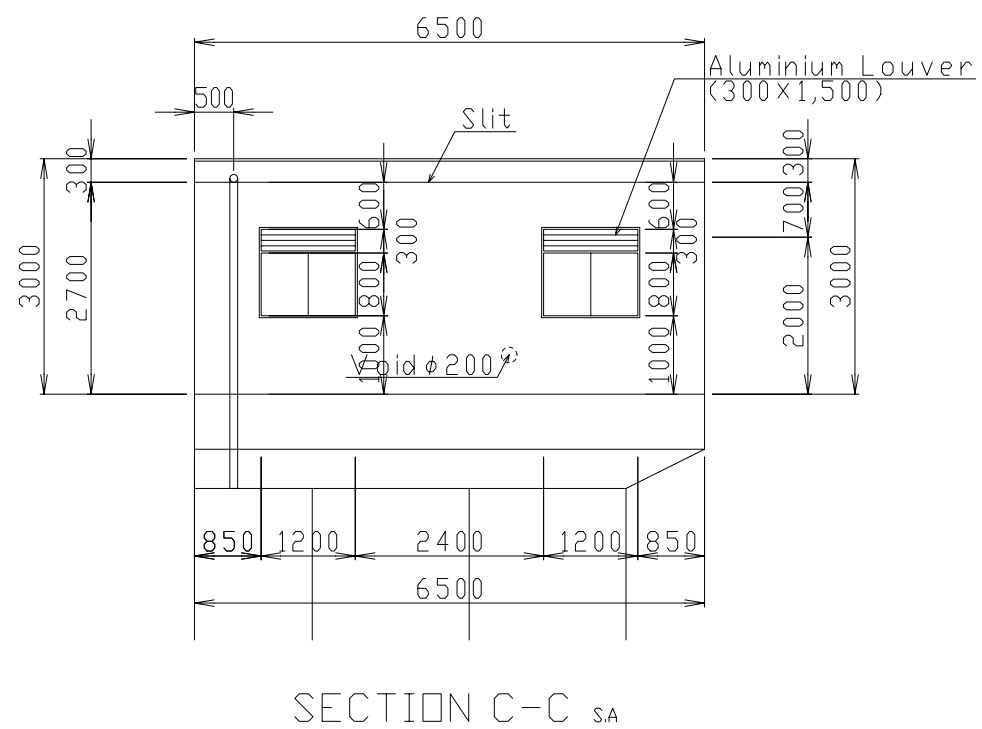
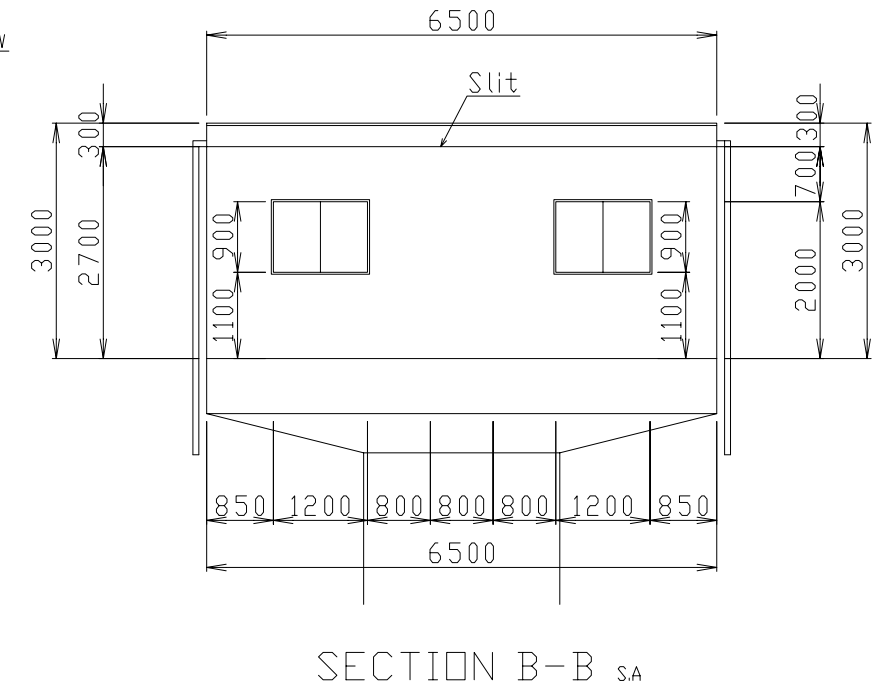
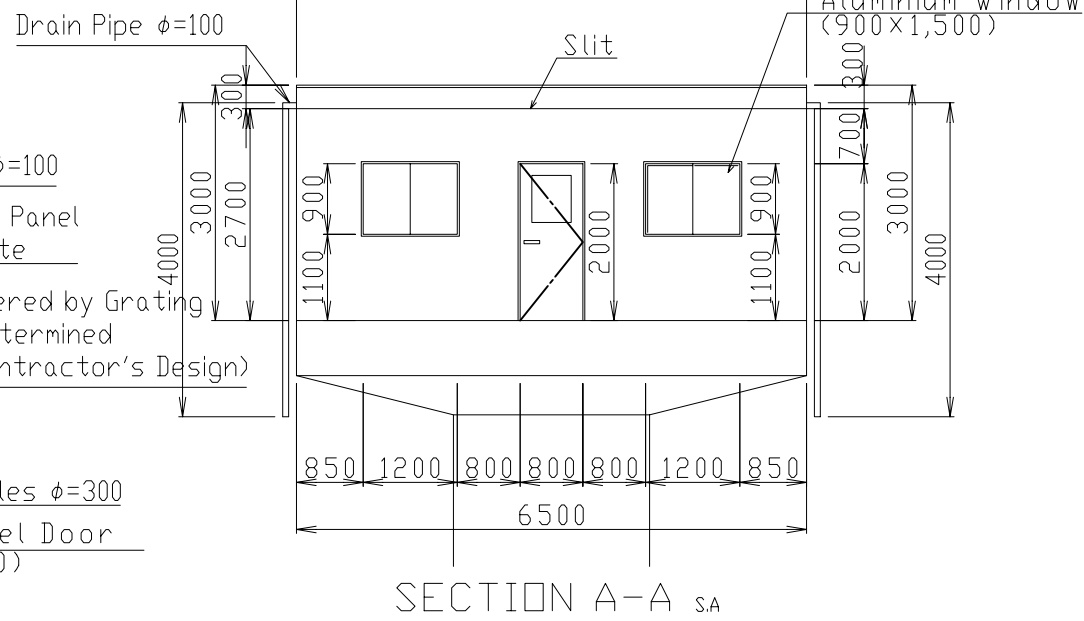
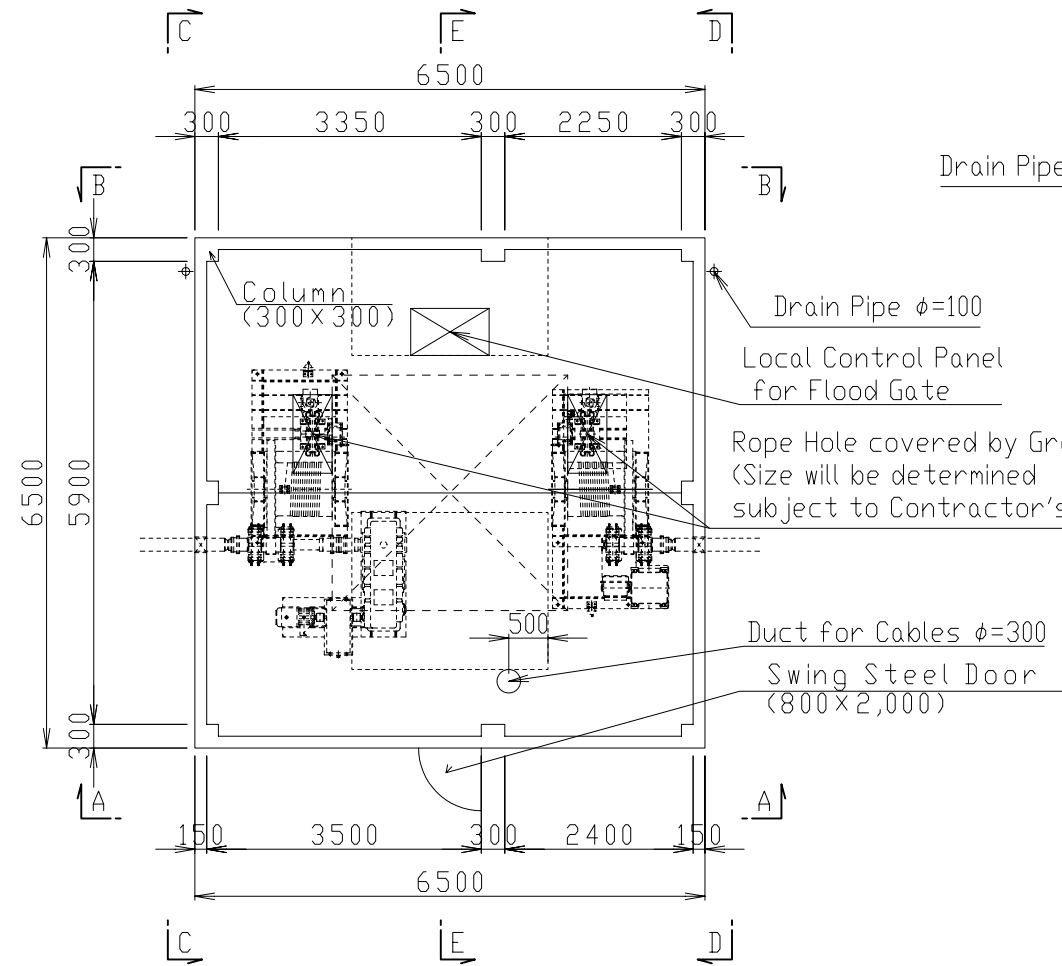
Note: Finishing Schedule

1. Exterior : Oil paint on cement mortar
2. Interior : Exposed
3. Door & Window
  - Door : Swing type steel door (800x2,000)
  - Window : Slide type aluminium window (1,200x900, 1200x800)  
glass t=5mm with wire mesh
  - Louver : Aluminium louver (300x1,200) with insect net

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 操作室(1/4)		
DATE	DRAWING NO.	2-21
NIPPON KOEI CO., LTD., JAPAN		



# HOIST HOUSE (2/4) (P2&P3)



Note: Finishing Schedule

1. Exterior : Oil paint on cement mortar
2. Interior : Exposed
3. Door & Window
  - Door : Swing type steel door (800x2,000)
  - Window : Slide type aluminium window (1,200x900, 1,200x800)  
glass t=5mm with wire mesh
  - Louver : Aluminium louver (300x1,200) with insect net

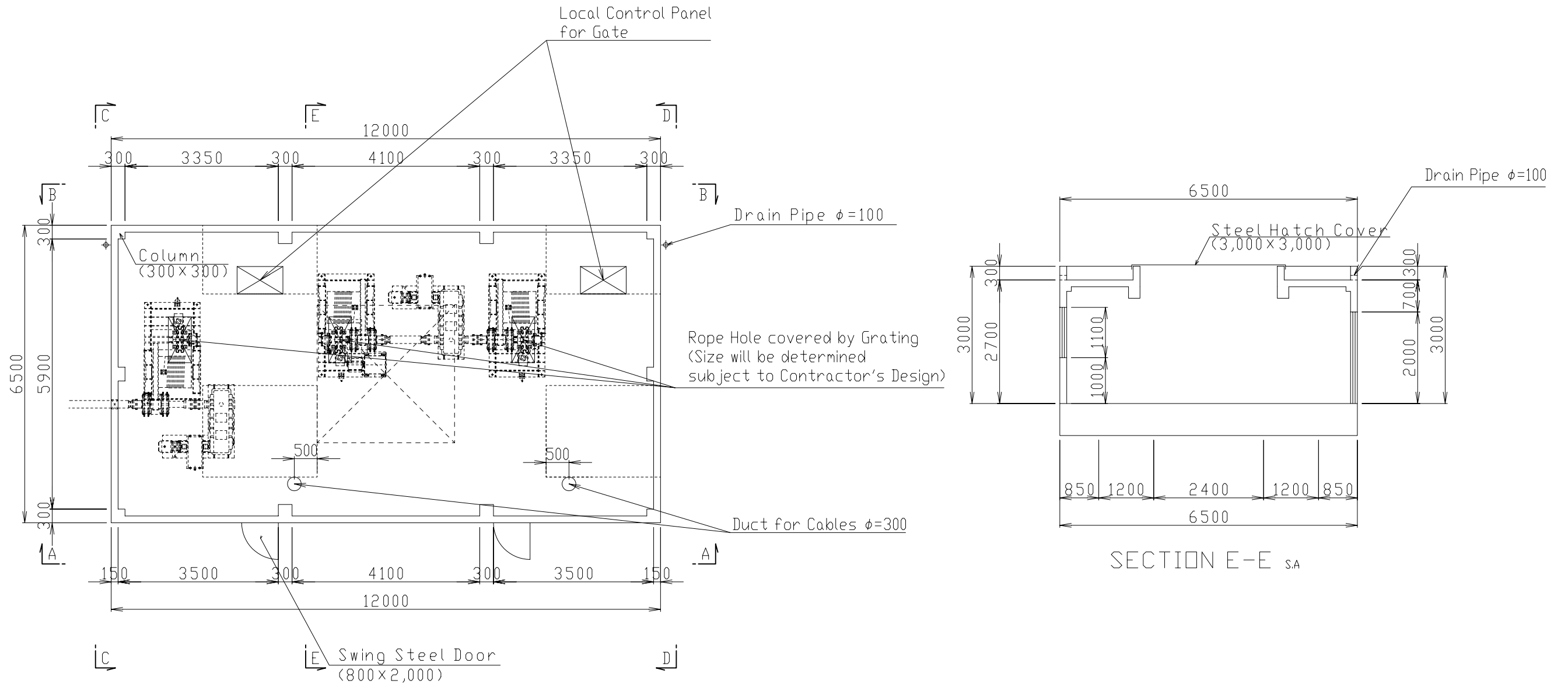
S.A  
(1/100)

SCALE V = SCALE H

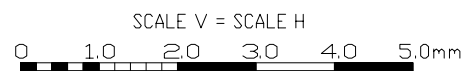
0 1.0 2.0 3.0 4.0 5.0mm

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 操作室(2/4)		
DATE	DRAWING NO.	2-22
NIPPON KOEI CO., LTD., JAPAN		

# HOIST HOUSE(3/4) (P4&P5)



S.A  
(1/100)

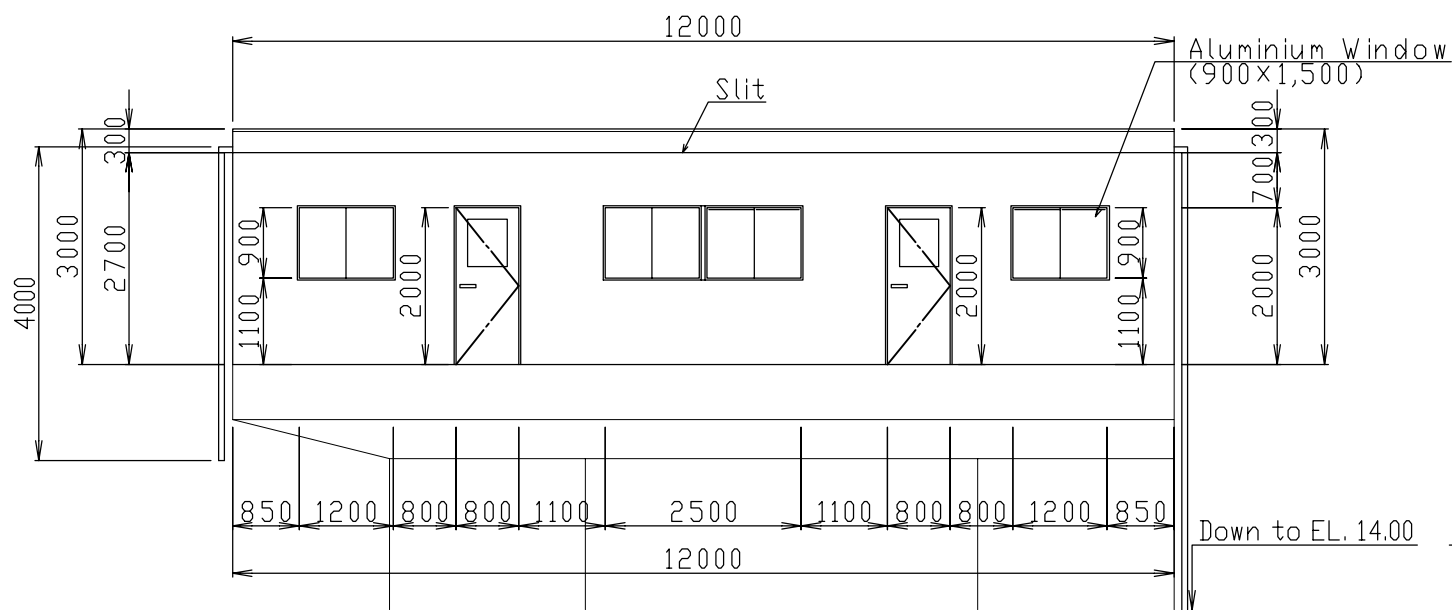


Note: Finishing Schedule

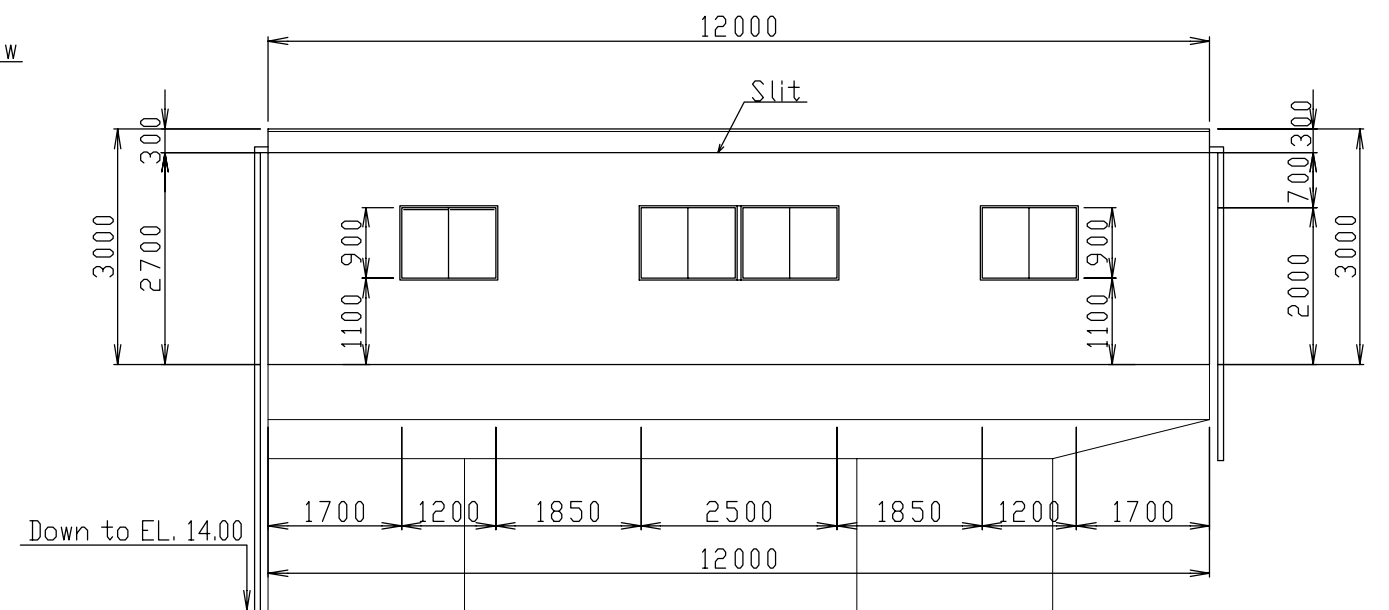
1. Exterior : Oil paint on cement mortar
2. Interior : Exposed
3. Door & Window
  - Door : Swing type steel door (800x2,000)
  - Window : Slide type aluminium window (2,500x900, 1,200x900, 1,200x800)  
glass t=5mm with wire mesh
  - Louver : Aluminium louver (300x1,200) with insect net

THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING 頭首工 操作室(3/4)			
DATE		DRAWING NO.	2-23
NIPPON KOEI CO., LTD., JAPAN			

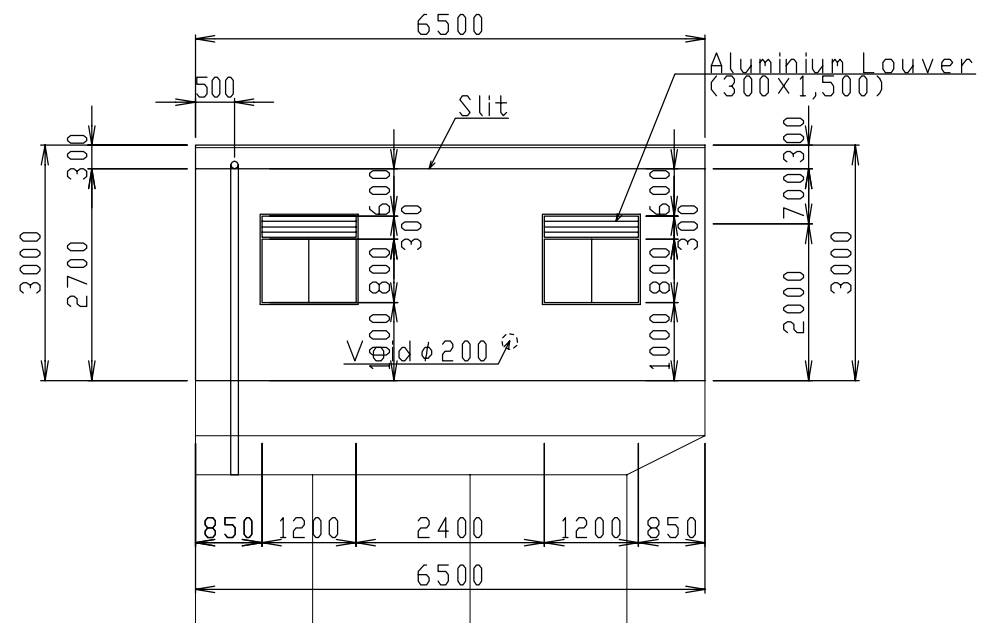
# HOIST HOUSE(4/4) (P4&P5)



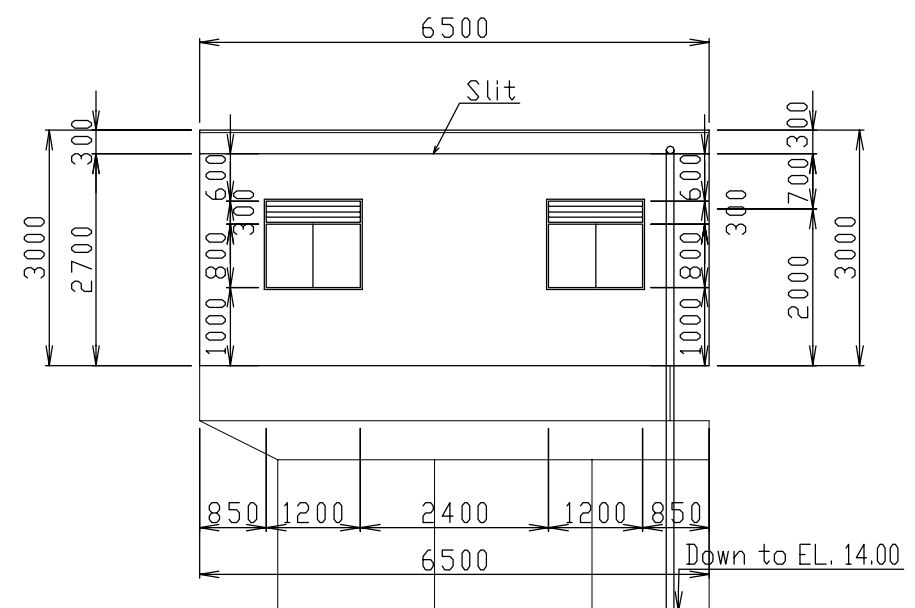
SECTION A-A SA



SECTION B-B SA

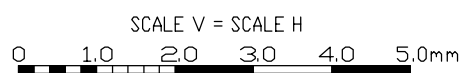


SECTION C-C SA



SECTION D-D SA

S.A  
(1/100)

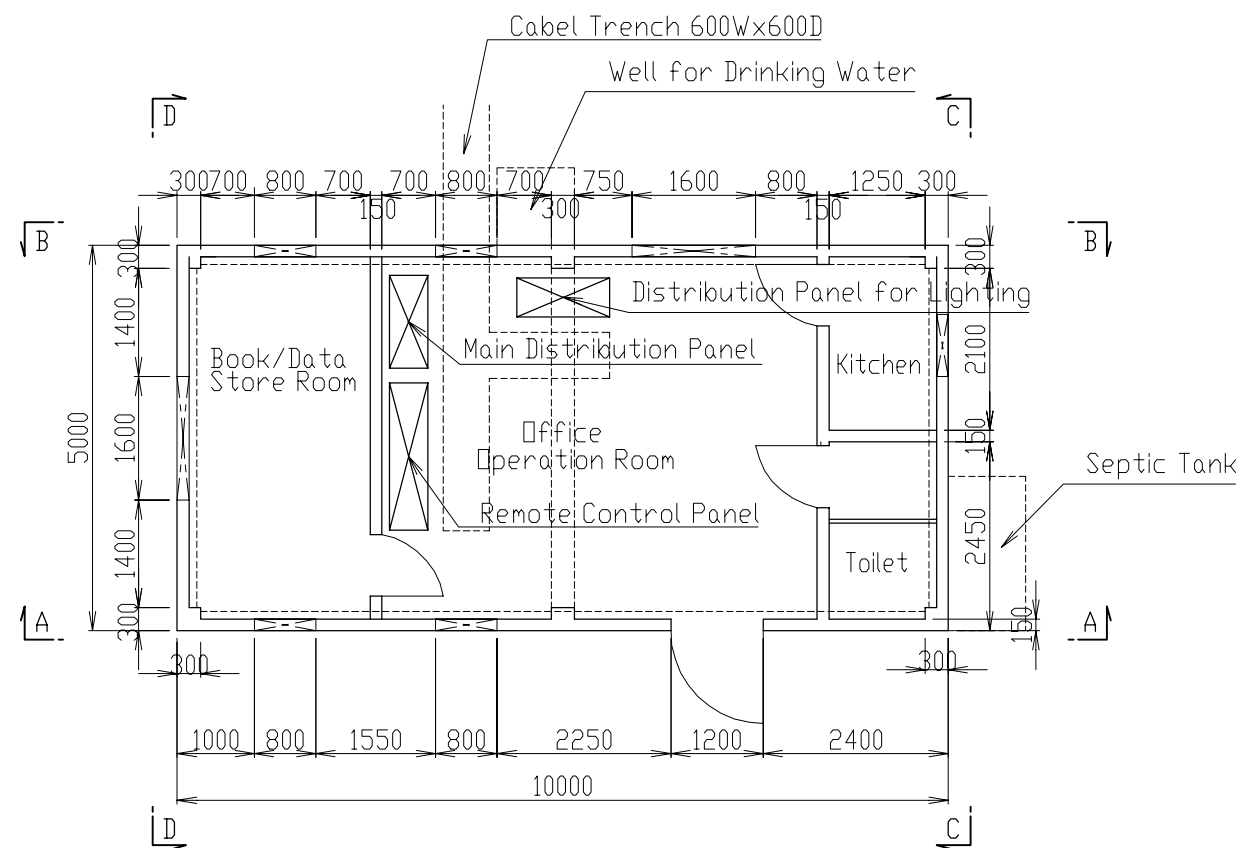


Note: Finishing Schedule

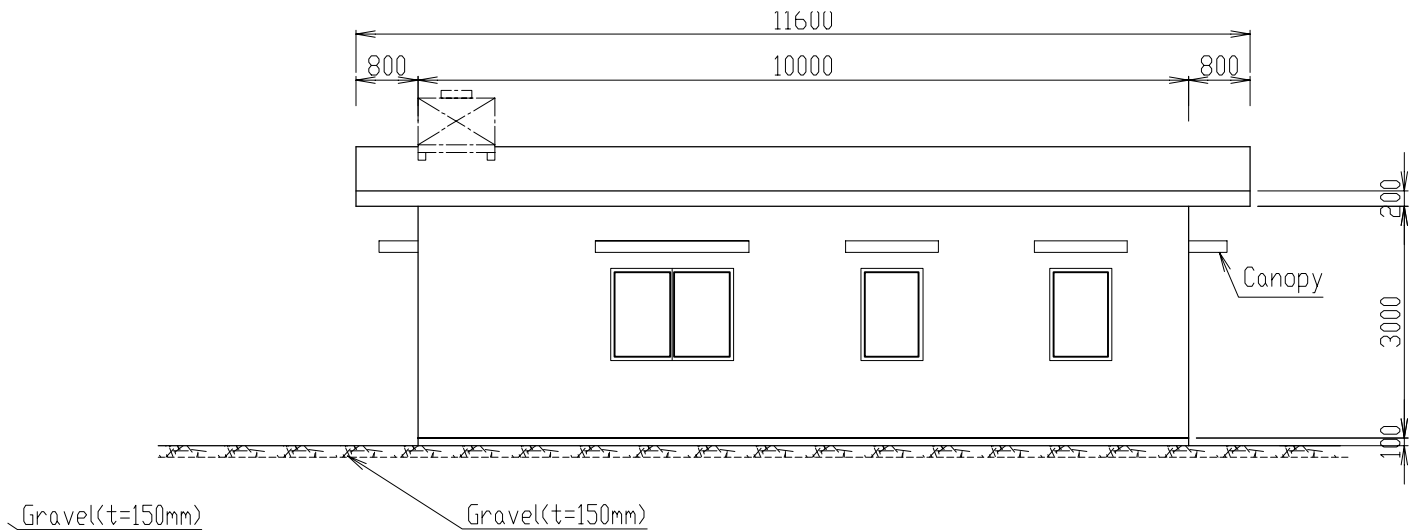
1. Exterior : Oil paint on cement mortar
2. Interior : Exposed
3. Door & Window
  - Door : Swing type steel door (800x2,000)
  - Window : Slide type aluminium window (2,500x900, 1,200x900, 1,200x800)  
glass t=5mm with wire mesh
  - Louver : Aluminium louver (300x1,200) with insect net

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 操作室(4/4)		
DATE	DRAWING NO.	2-24
NIPPON KOEI CO., LTD., JAPAN		

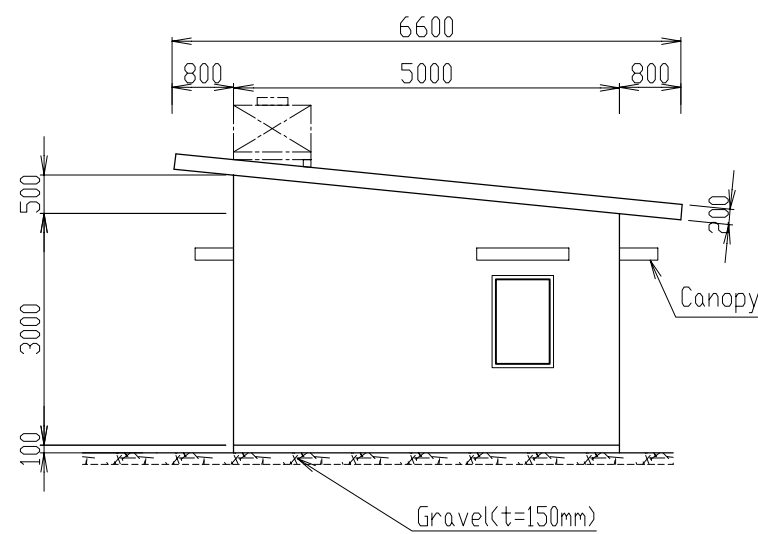
# CONTROL HOUSE



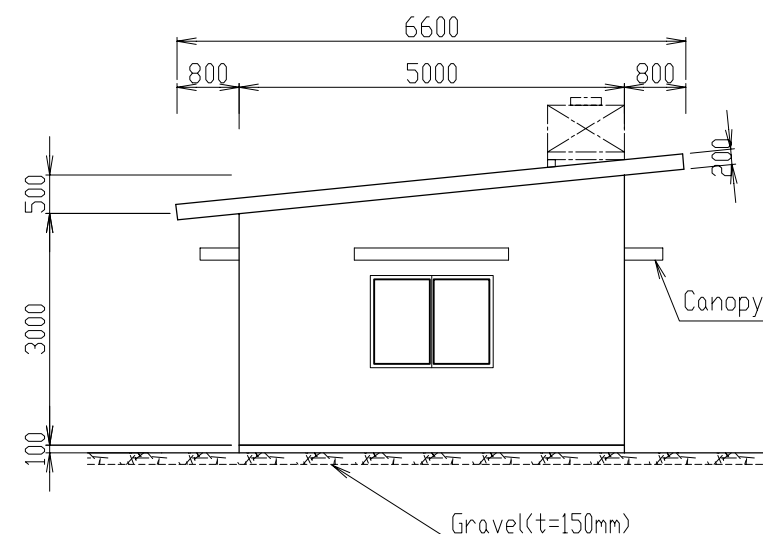
PLAN sA



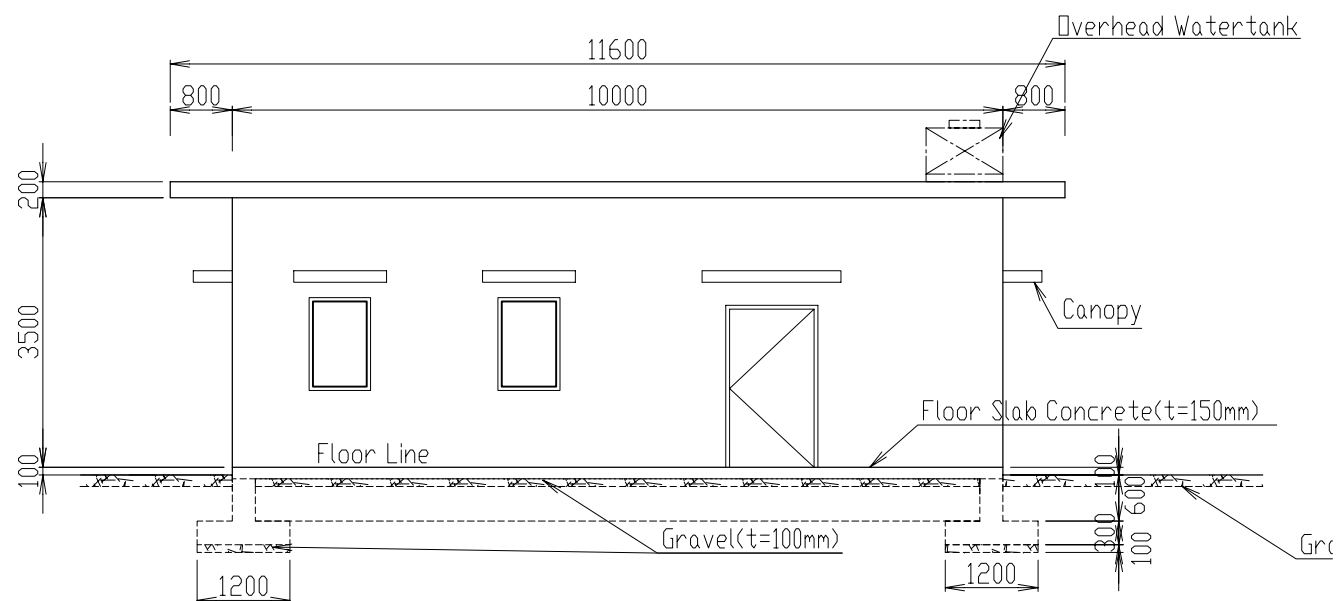
SECTION B-B sA



SECTION C-C sA



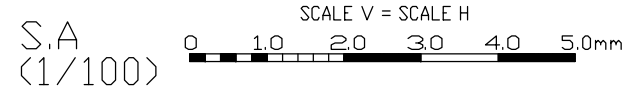
SECTION D-D sA



SECTION A-A sA

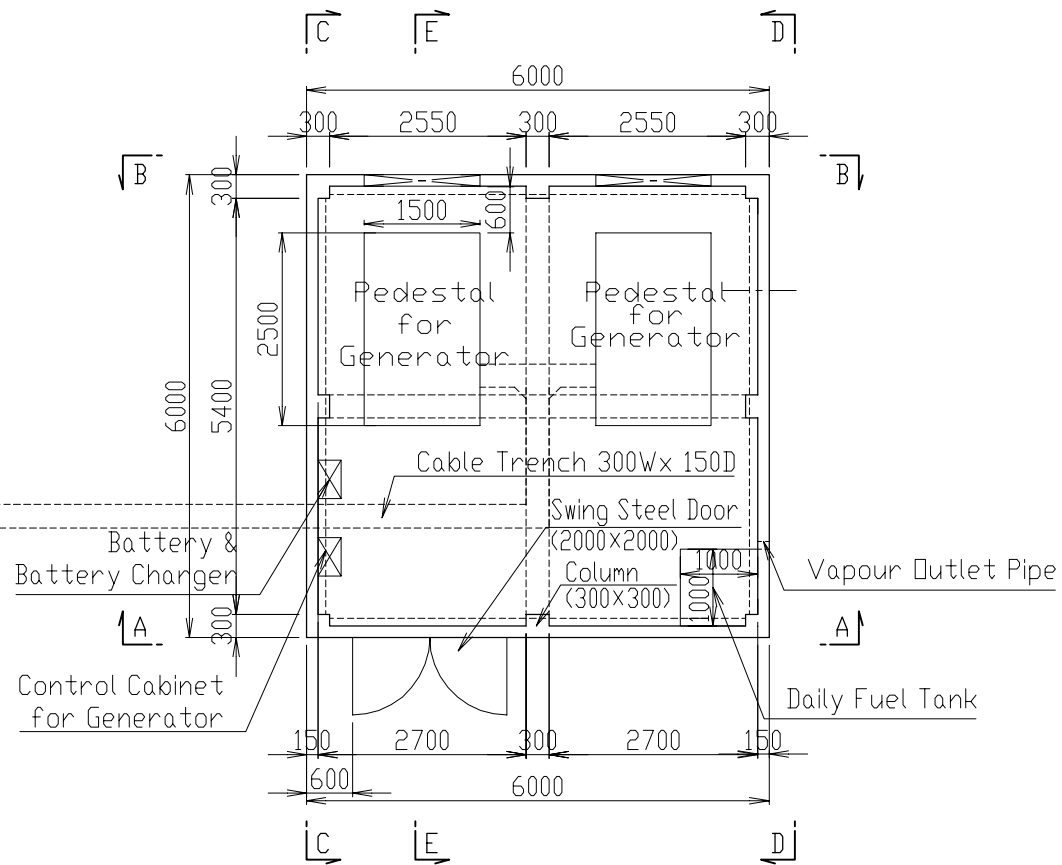
Note: Finishing Schedule

1. Exterior : Oil paint on cement mortar
2. Interior : Exposed
3. Door & Window
  - Door : Swing type steel door (1,200x2,000)
  - Window : Slide type aluminium window (1,500x1,000, 750x1,000) glass t=5mm with wire mesh

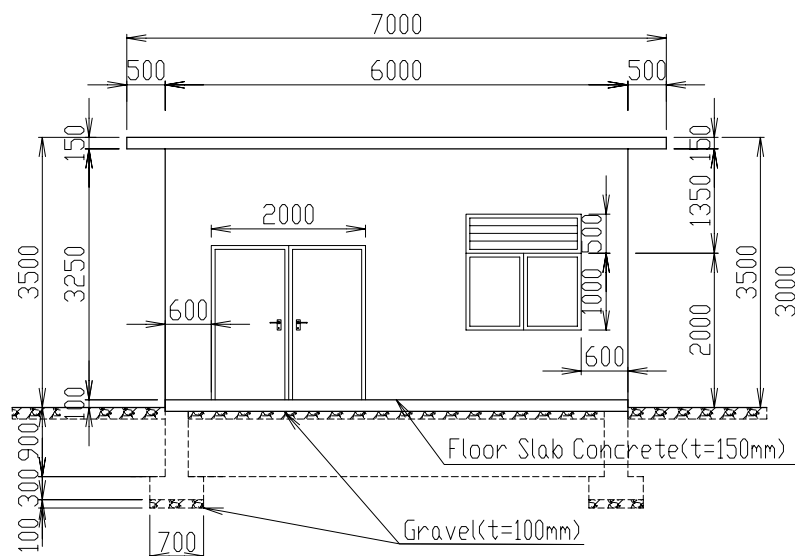


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 管理棟		
DATE	DRAWING NO.	2-25
NIPPON KOEI CO., LTD., JAPAN		

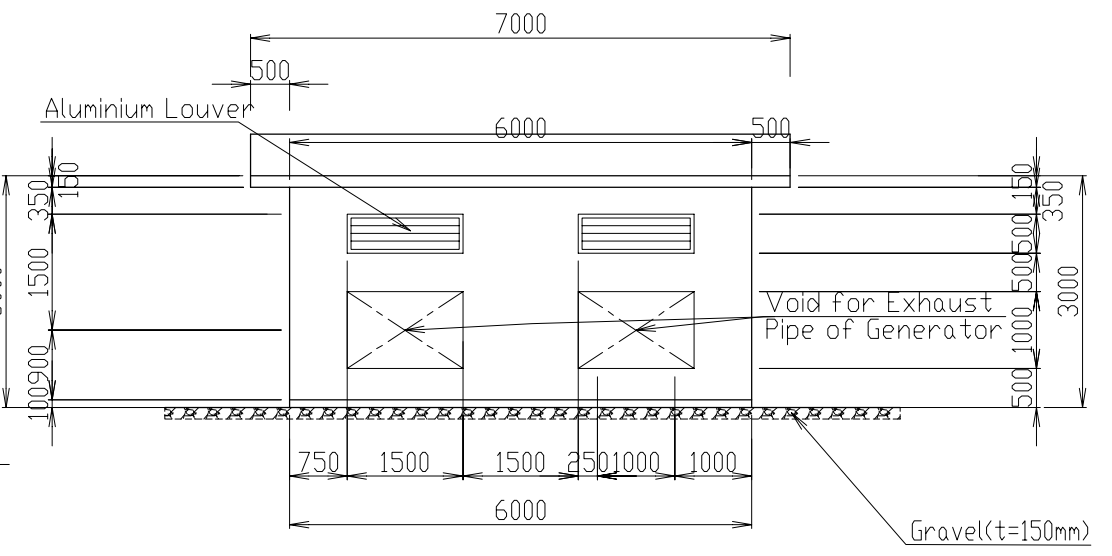
# GENERATOR HOUSE



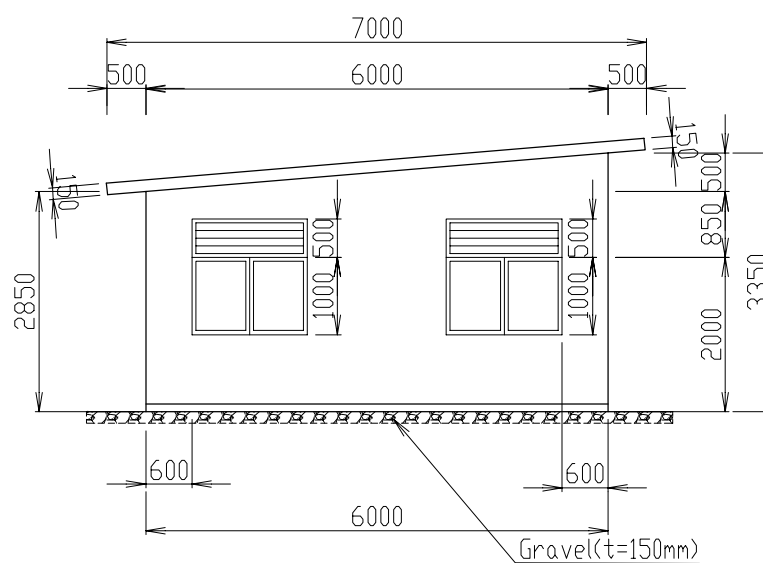
PLAN SA



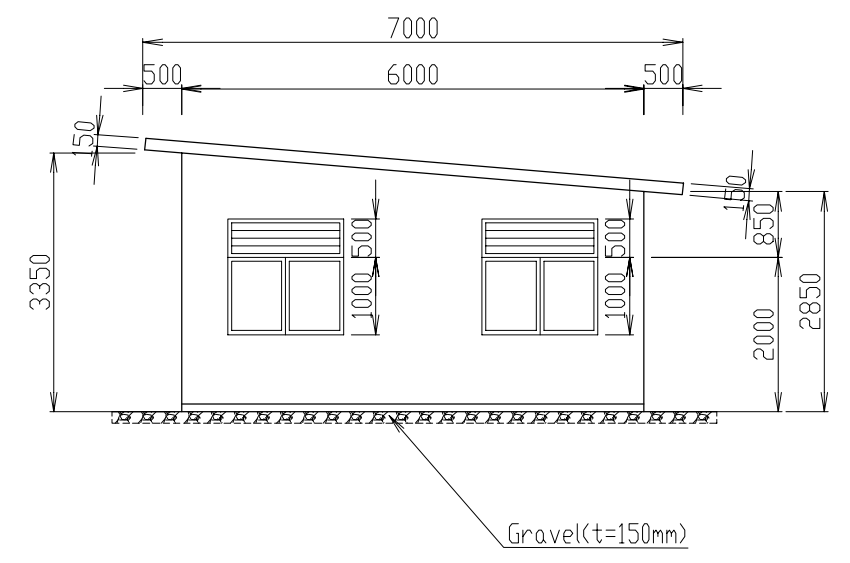
SECTION A-A SA



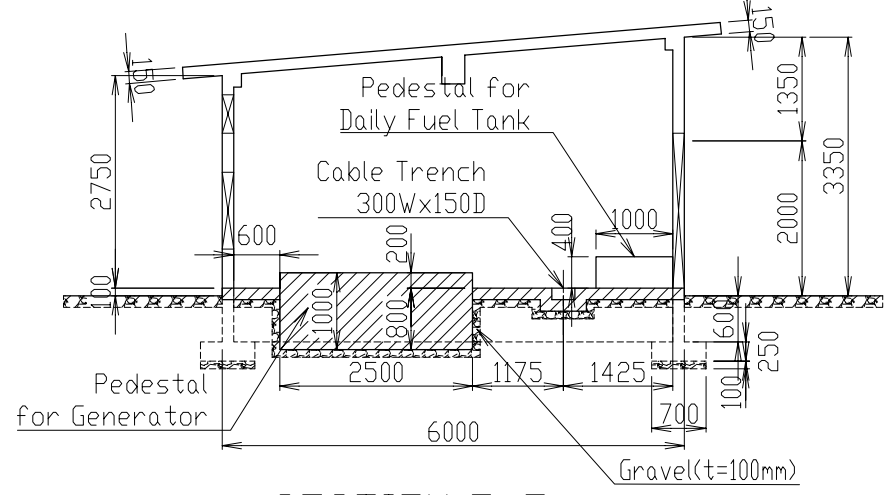
SECTION B-B SA



SECTION C-C SA



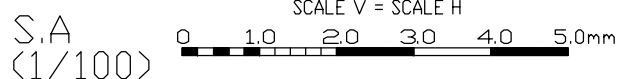
SECTION D-D SA



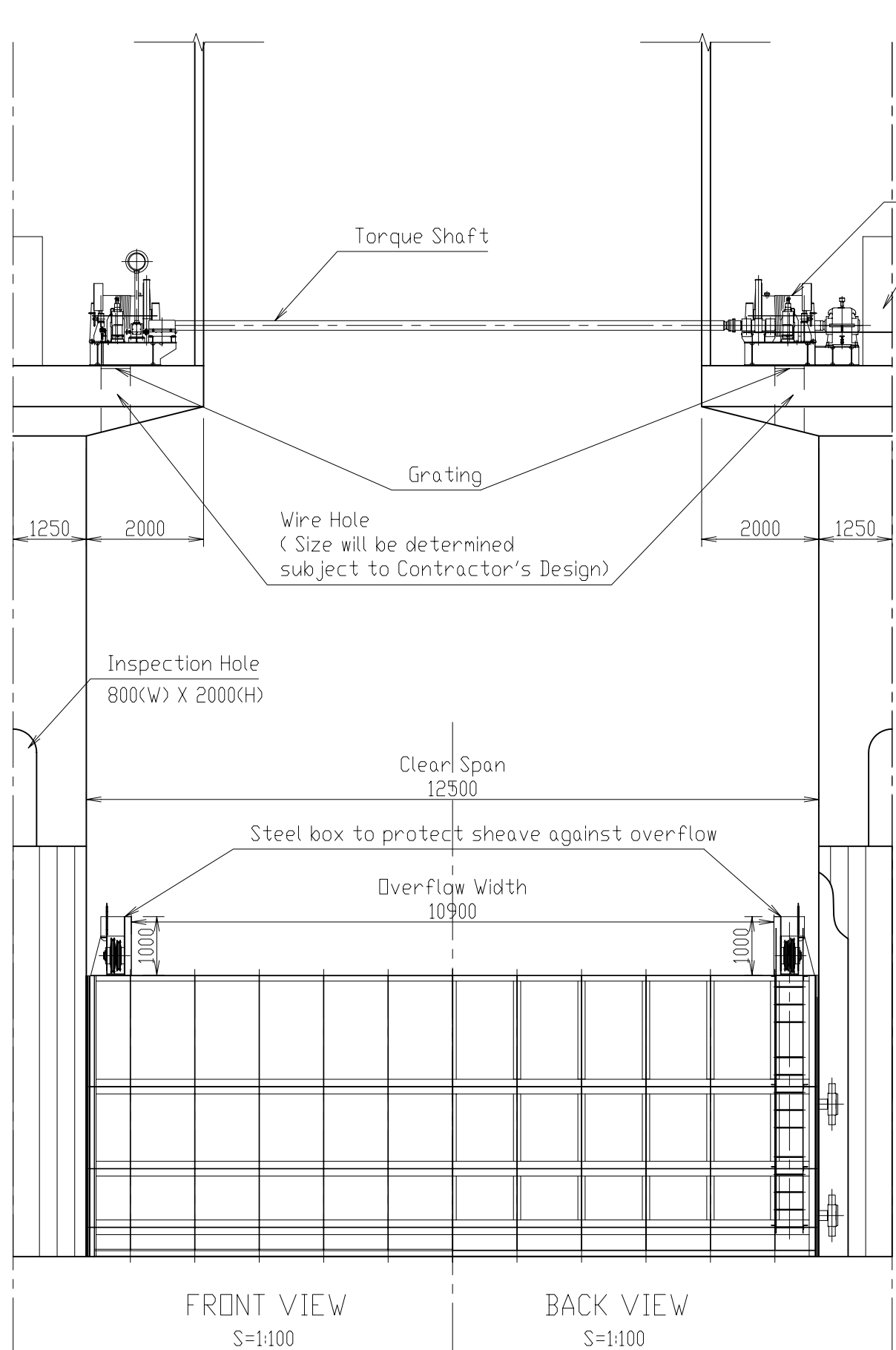
SECTION E-E SA

Note: Finishing Schedule

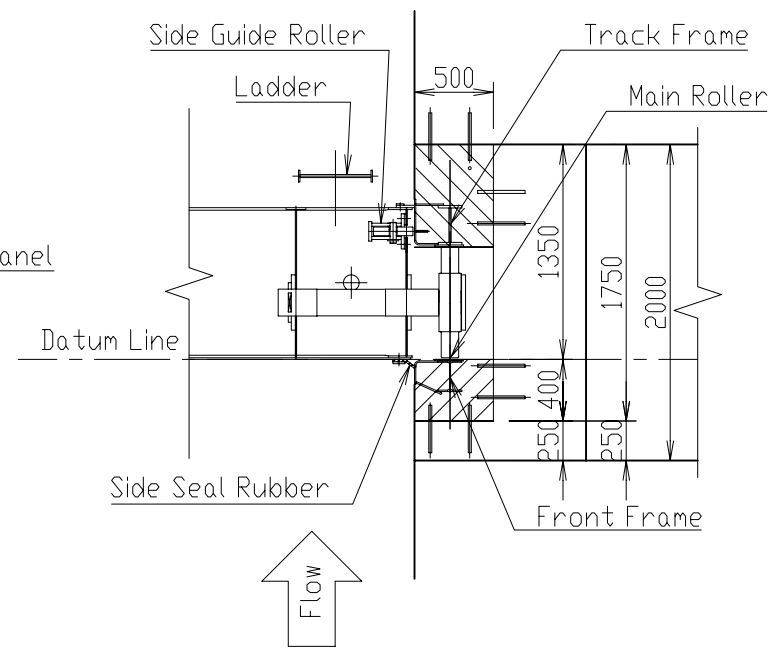
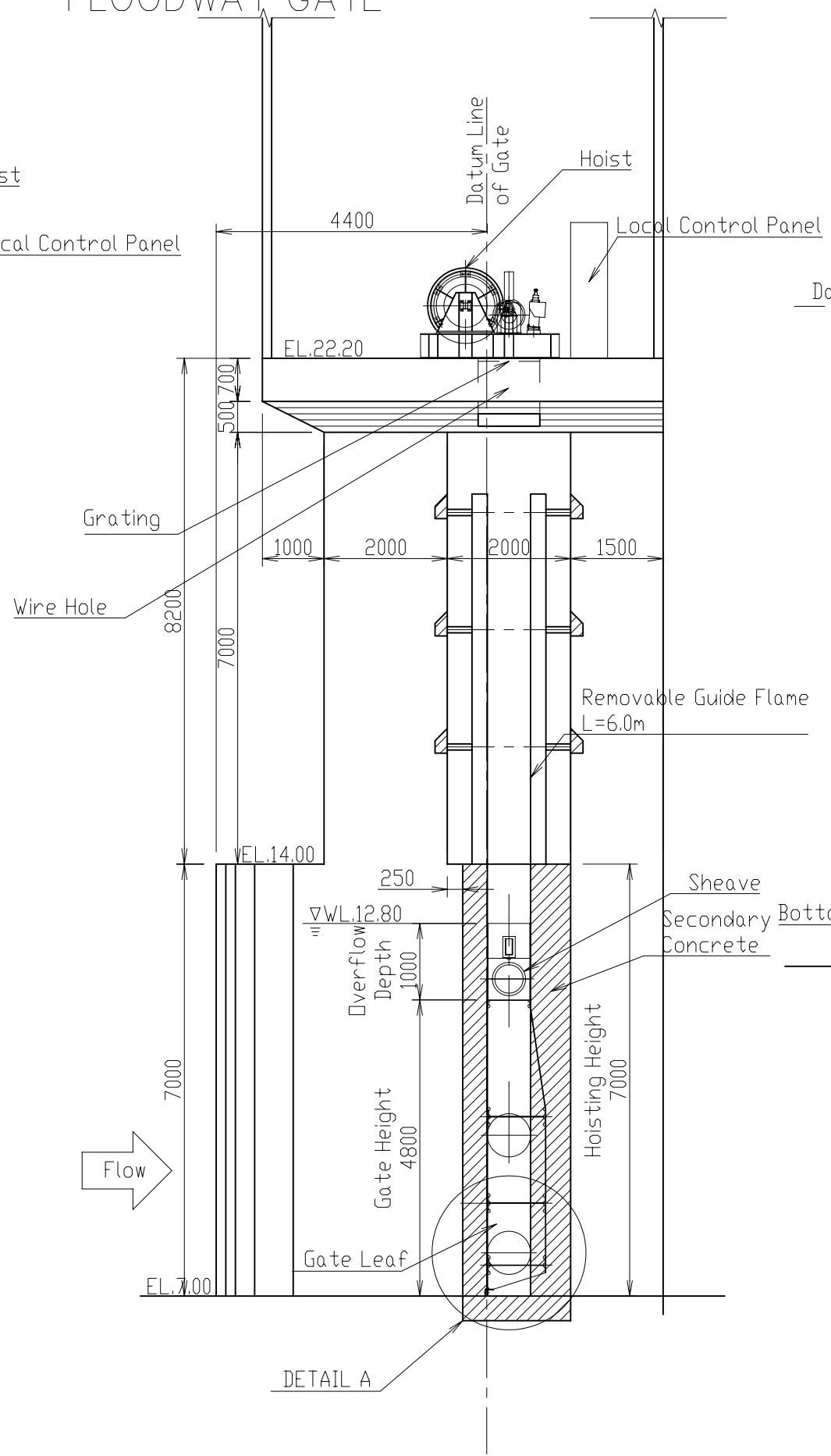
1. Exterior : Oil paint on cement mortar
2. Interior : Exposed
3. Door & Window
  - Door : Swing type steel door (2,000x2,000)
  - Window : Slide type aluminium window (1,500x1,000) glass t=5mm with wire mesh
  - Louver : Aluminium louver (500x1,500) with insect net



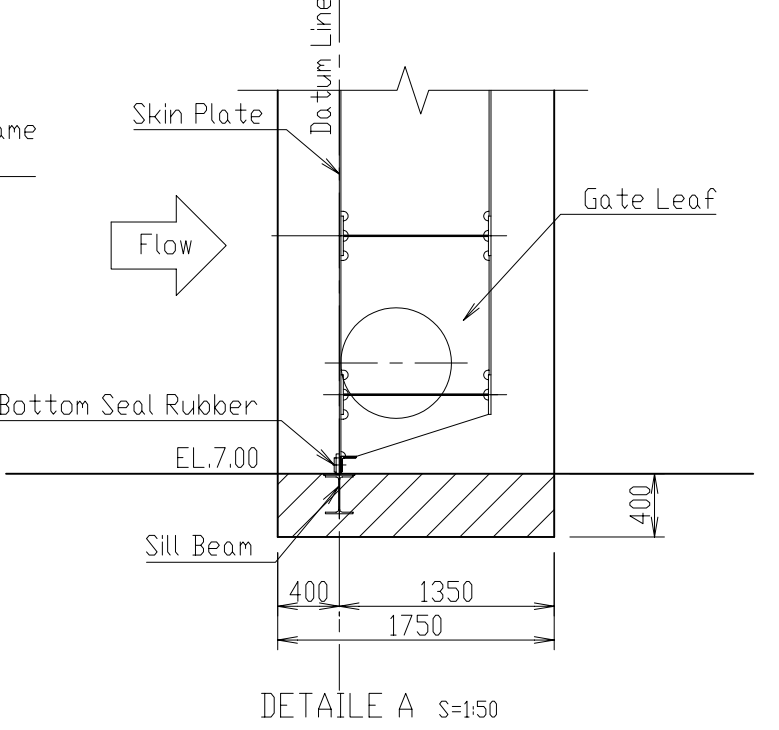
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 発電機棟		
DATE	DRAWING NO.	2-26
NIPPON KOEI CO., LTD., JAPAN		



FLOODWAY GATE



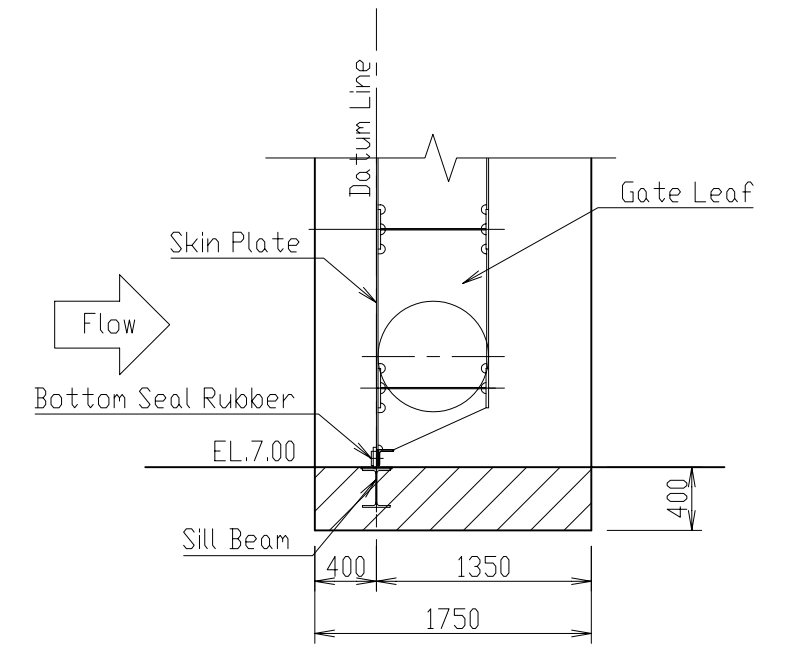
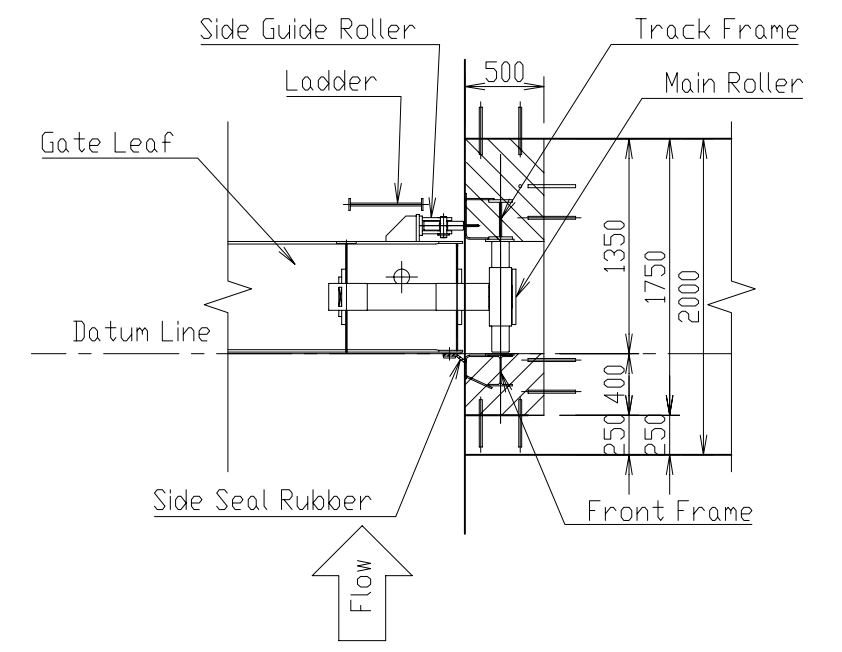
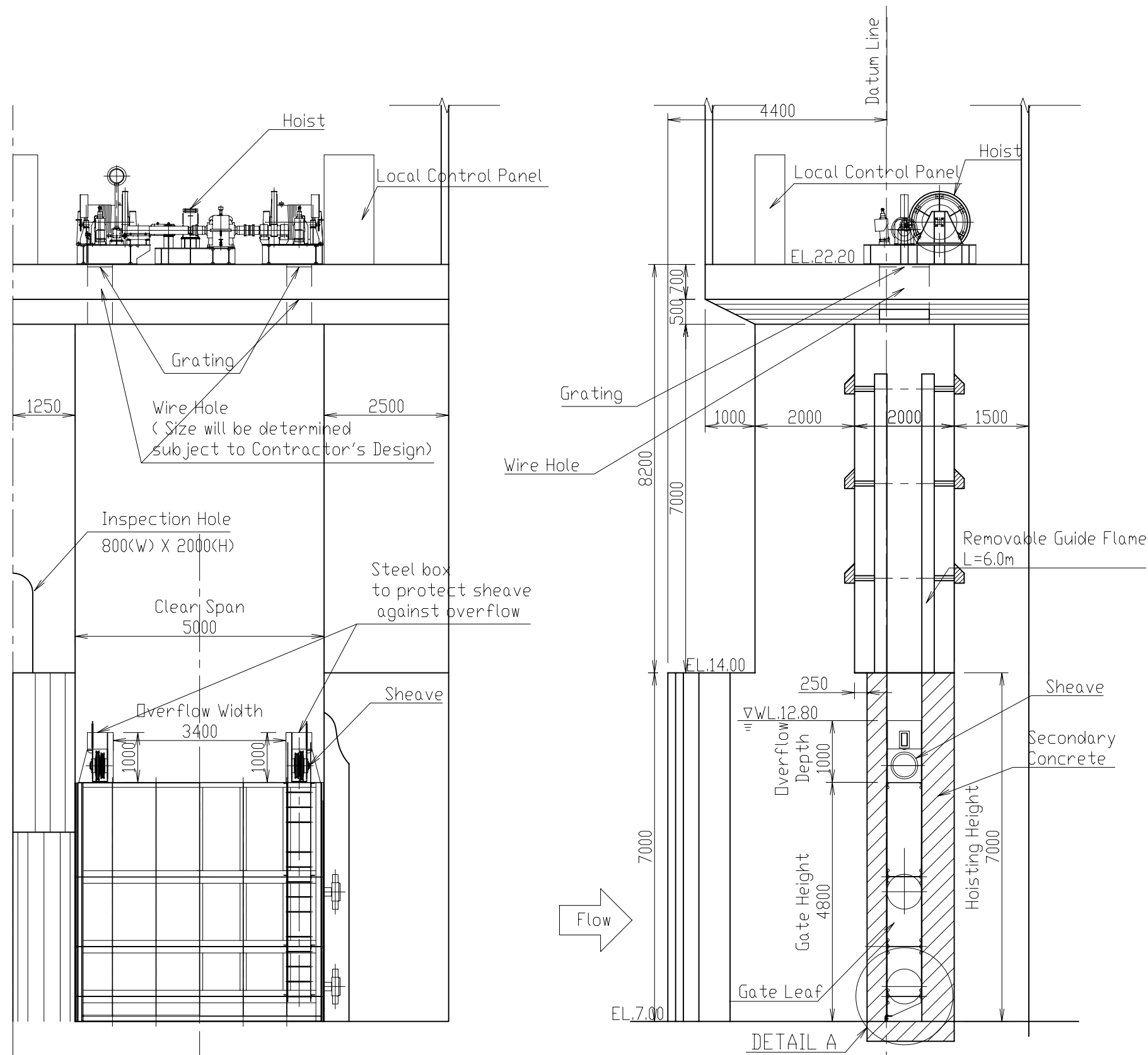
DETAIL OF SIDE WATER SEALING S=1:50



DETAIL A S=1:50

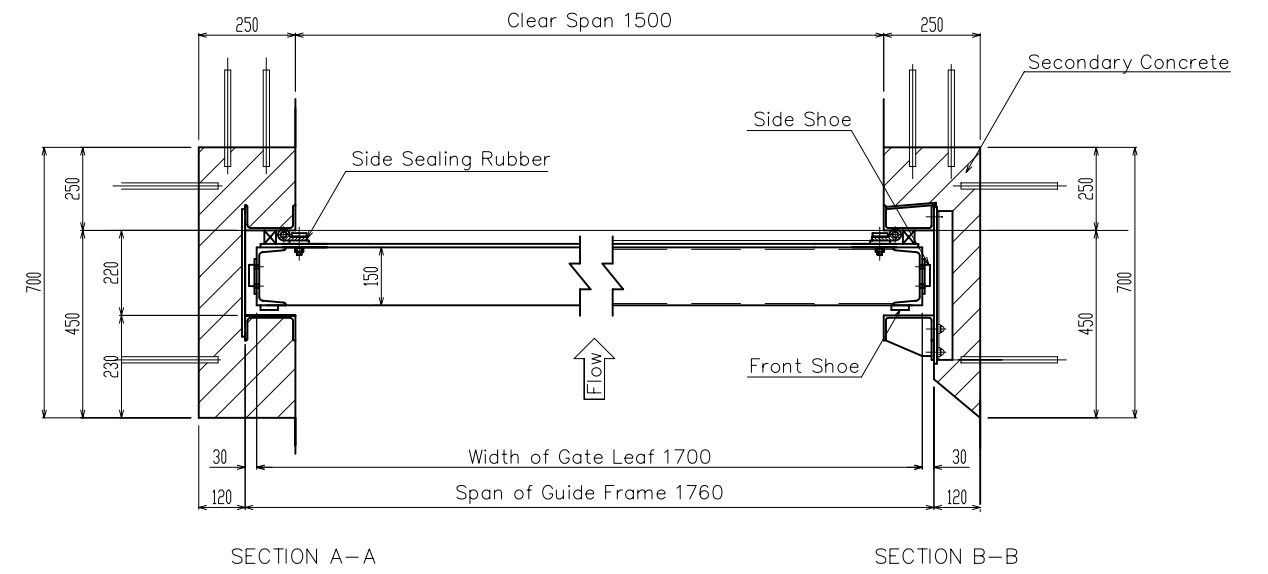
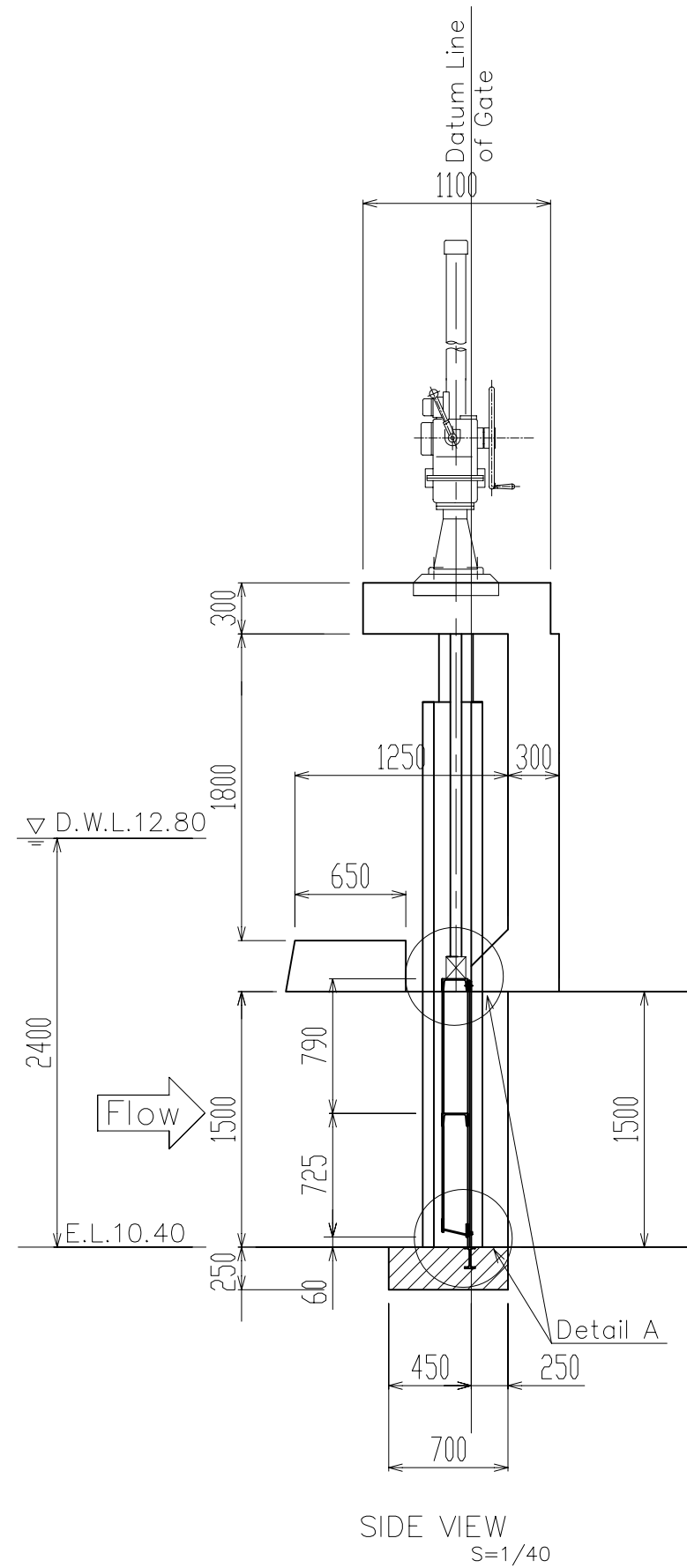
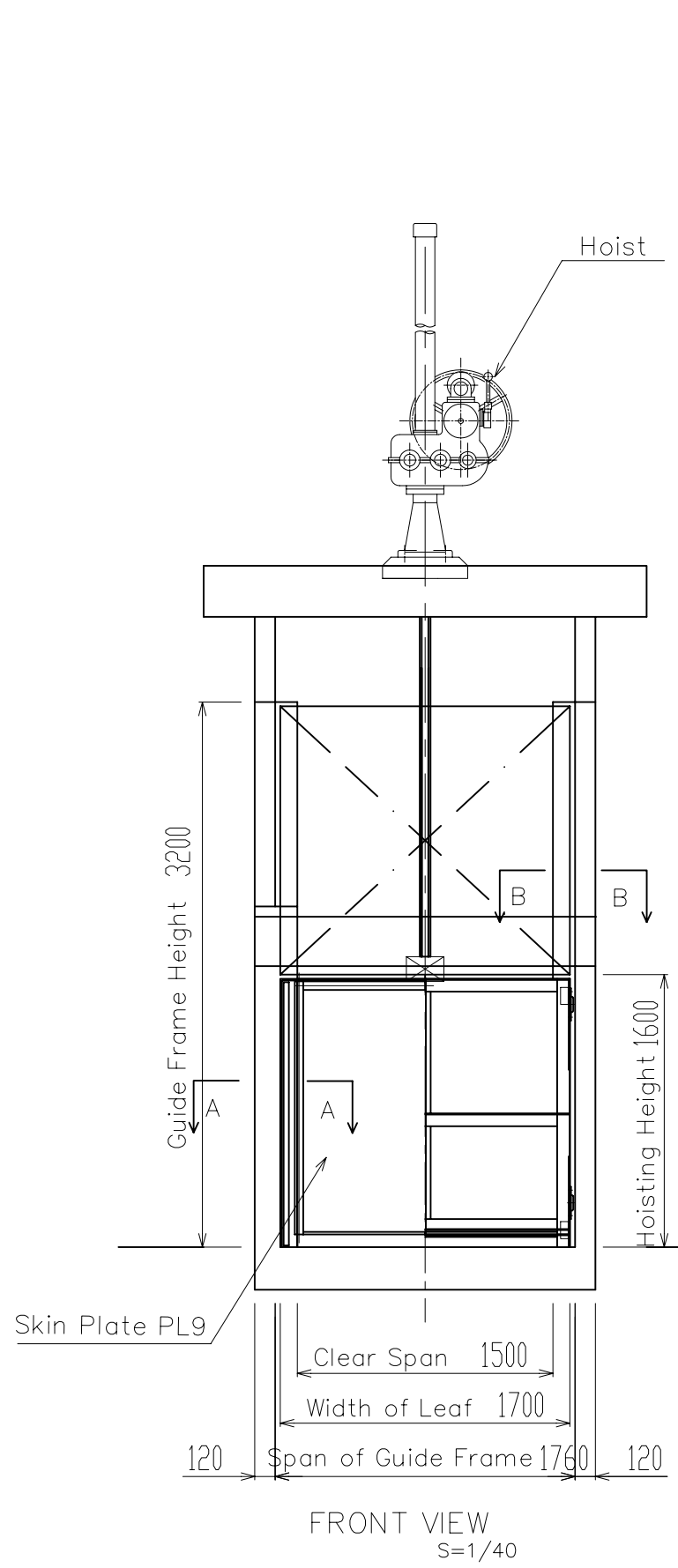
THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING			
頭首工 洪水吐ゲート詳細図			
DATE		DRAWING NO.	2-27
NIPPON KOEI CO., LTD., JAPAN			

# SLUICeway GATE

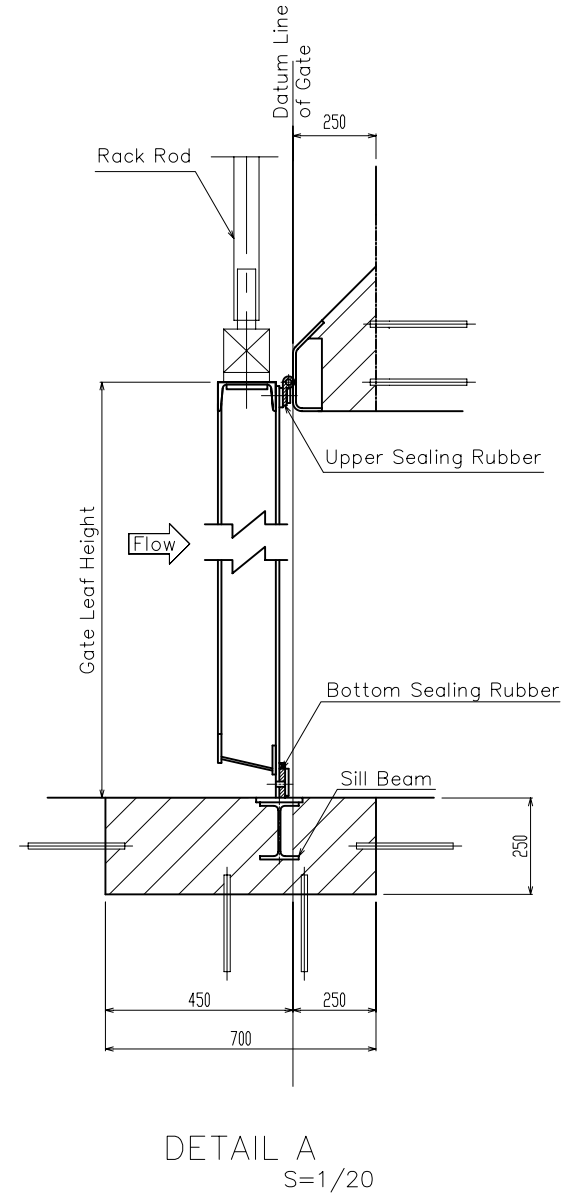


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
頭首工 土砂吐ゲート詳細図		
DATE	DRAWING NO.	2-28
NIPPON KOEI CO., LTD., JAPAN		

# RIVER MAINTENANCE FLOW GATE



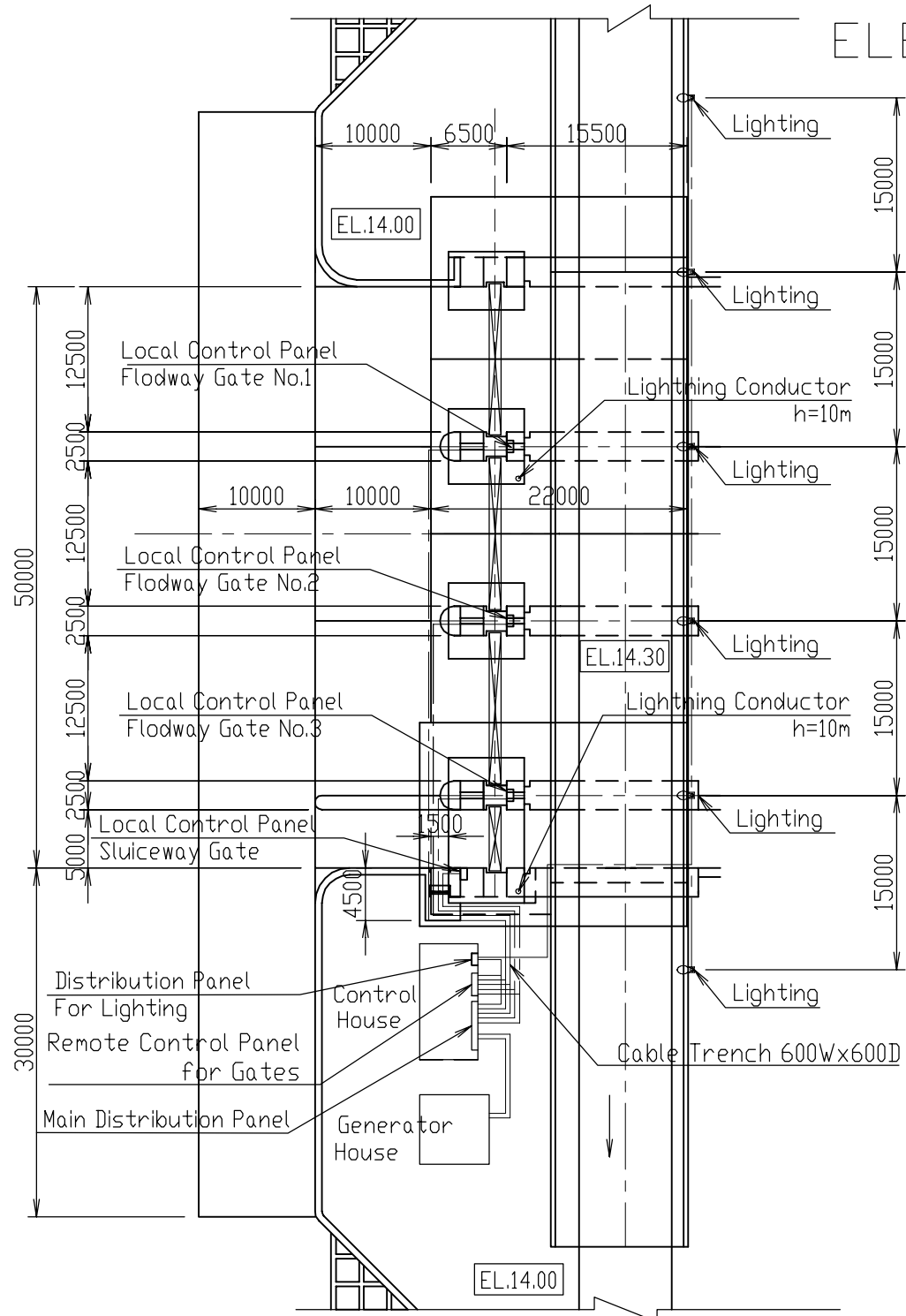
DETATIL OF SIDE WATER SEALING  
S=1/20



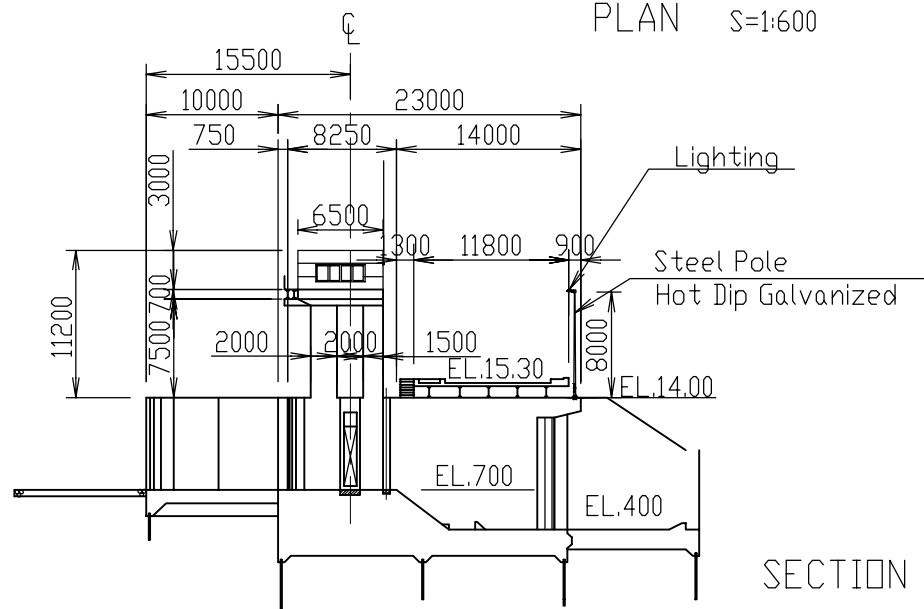
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 頭首工 流量調整ゲート詳細図		
DATE	DRAWING NO.	2-29
NIPPON KOEI CO., LTD., JAPAN		



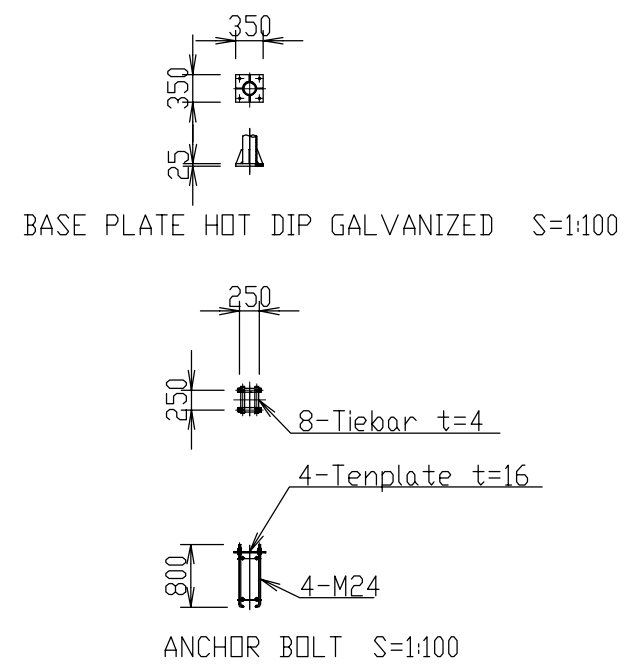
# ELECTRIC AND LIGHTNING SYSTEM



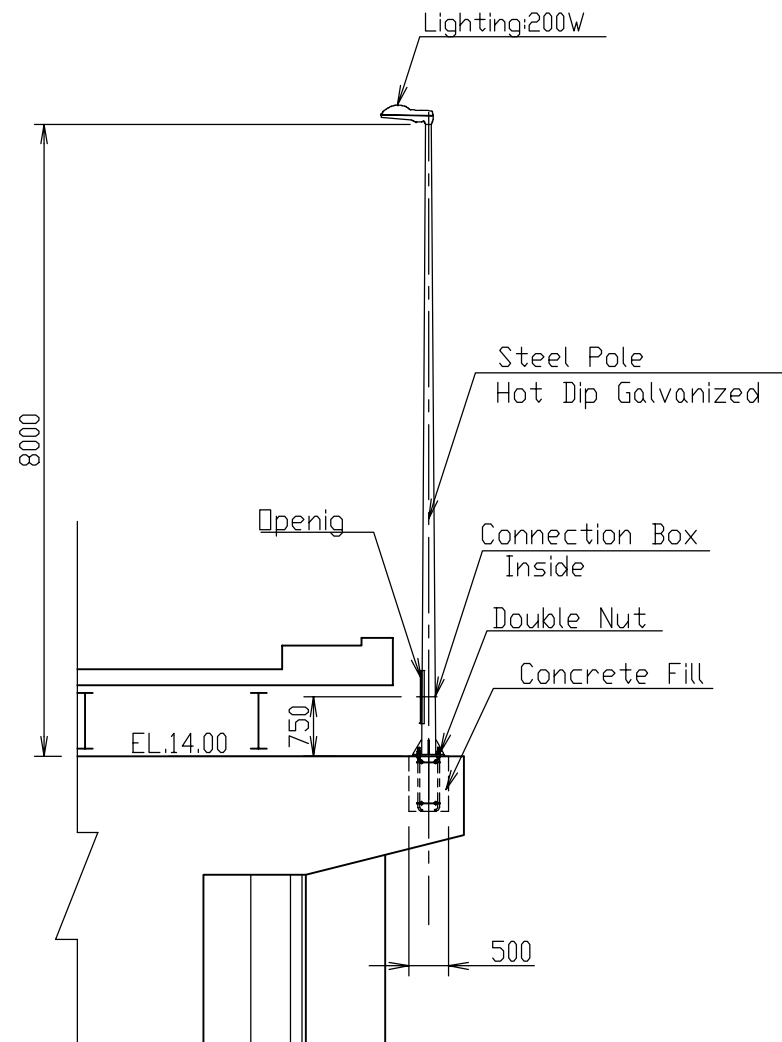
PLAN S=1:600



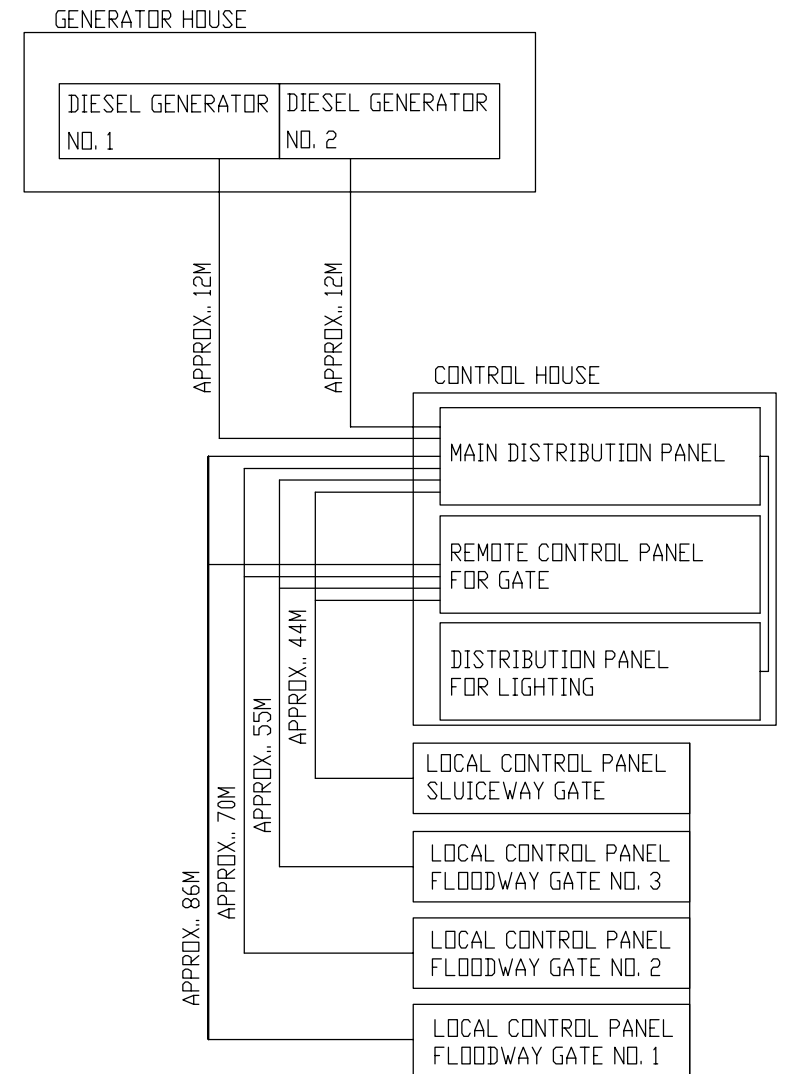
SECTION S=1:600



BASE PLATE HOT DIP GALVANIZED S=1:100

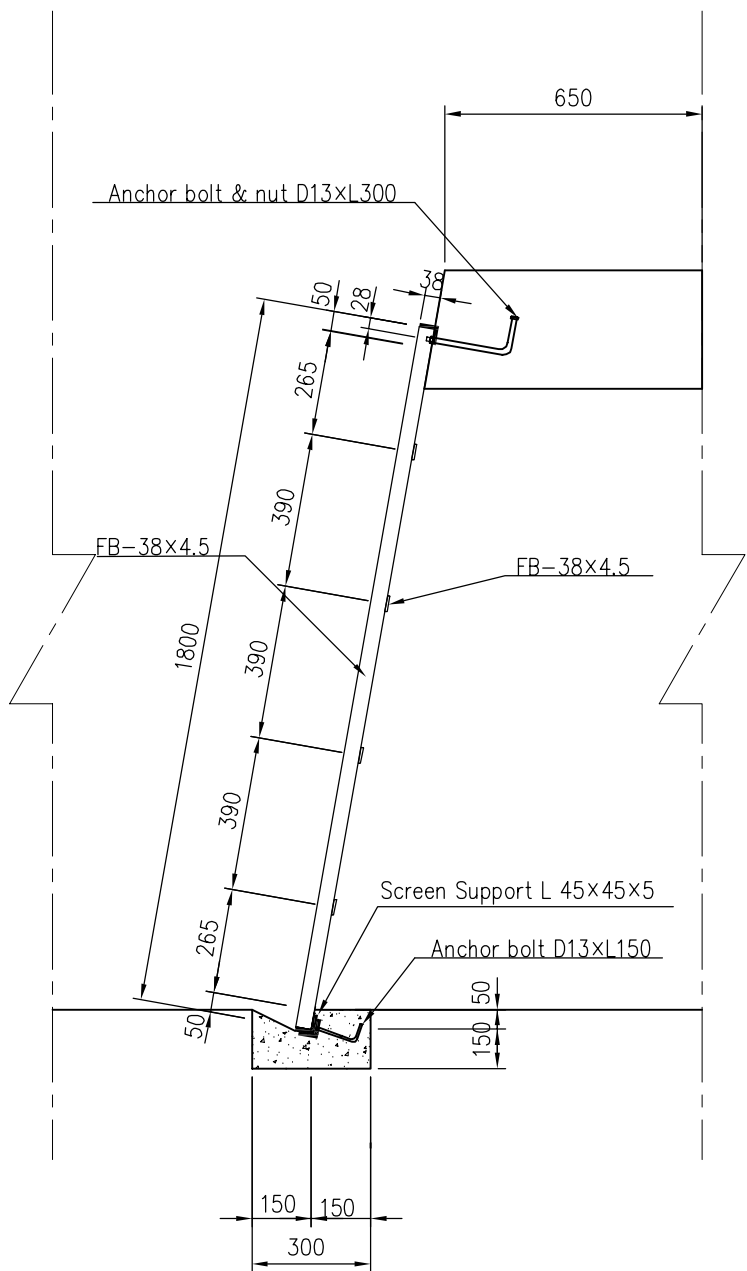


DETAIL OF STEEL POLE S=1:100

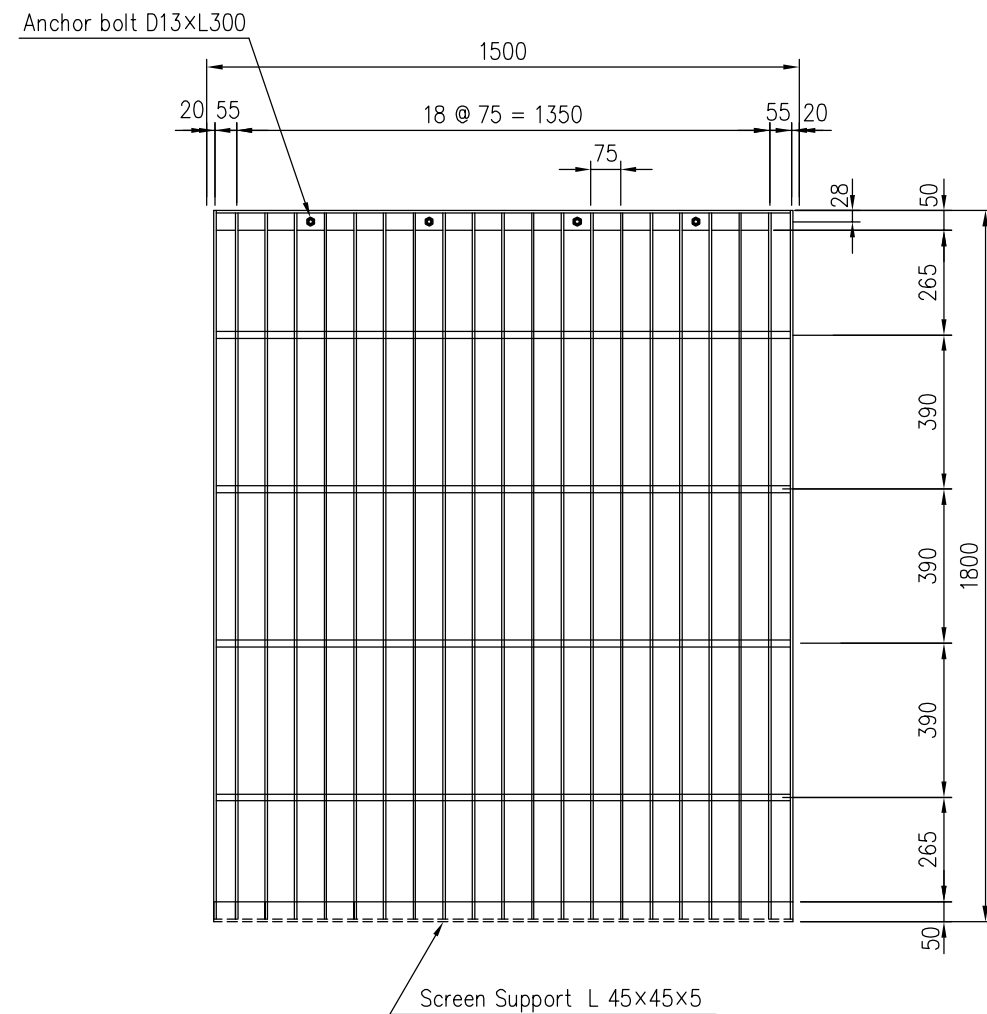


THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING			
頭首工 配電図			
DATE		DRAWING NO.	2-30
NIPPON KOEI CO., LTD., JAPAN			

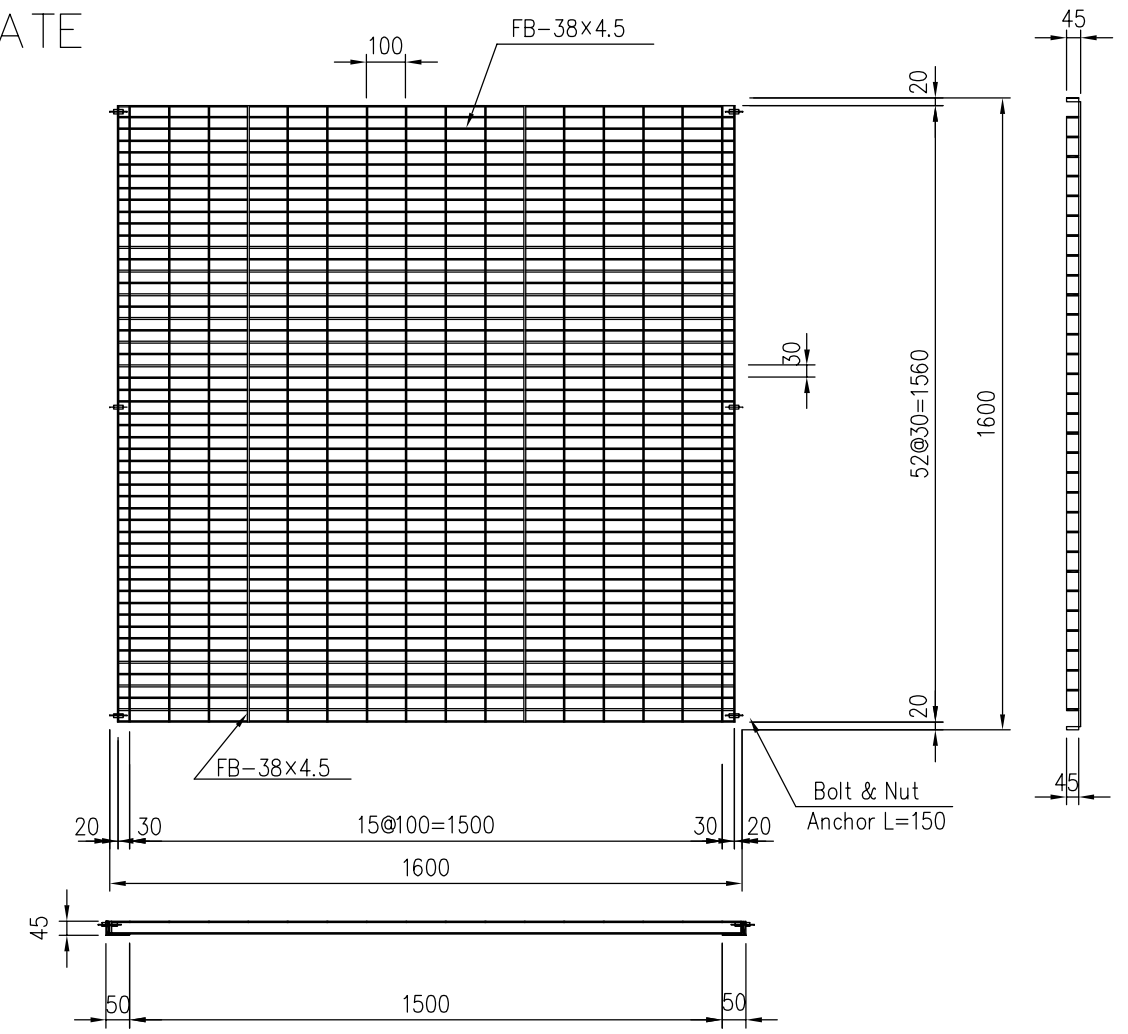
# SCREEN & GRATINNG for RIVER MAINTENANCE FLOW GATE



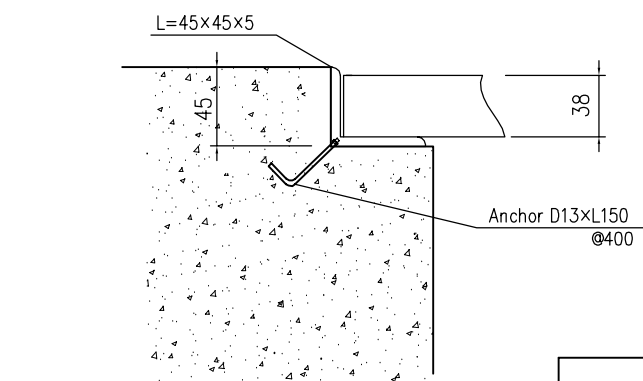
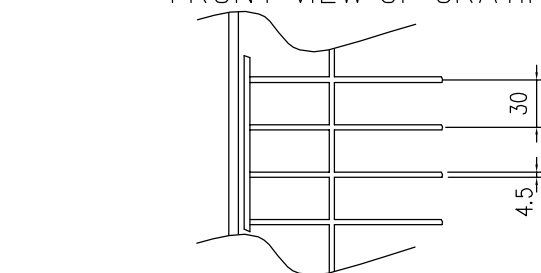
CROSS SECTION OF SCREEN S=1:200



FRONT VIEW OF SCREEN S=1:200



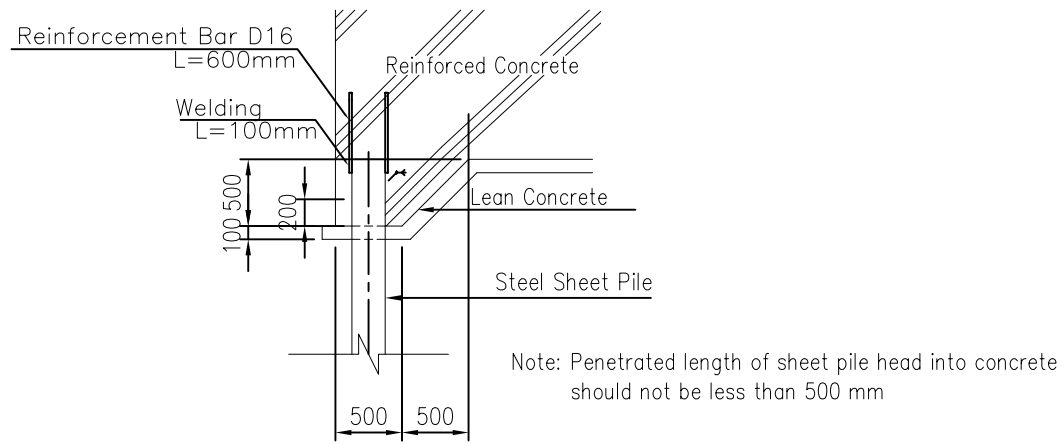
FRONT VIEW OF GRATING S=1:200



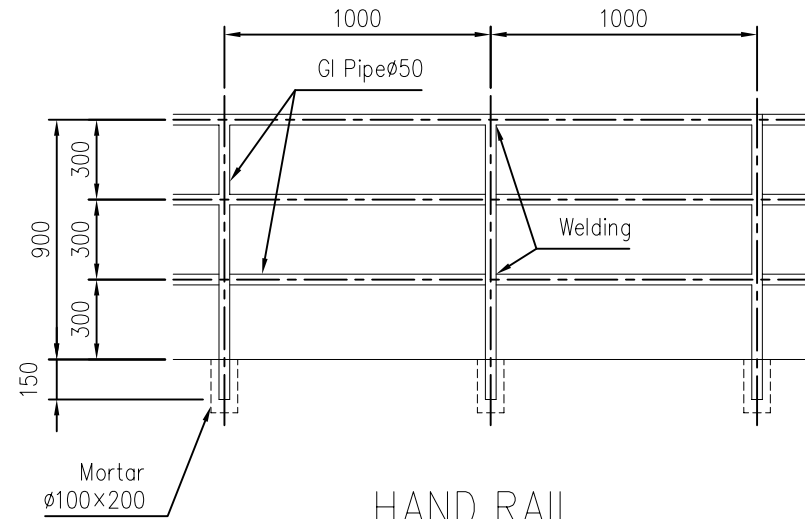
DETAIL OF GRATING S=1:50

THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING 頭首工			
スクリーンおよびグレーチング詳細図			
DATE		DRAWING NO.	2-31
NIPPON KOEI CO., LTD., JAPAN			

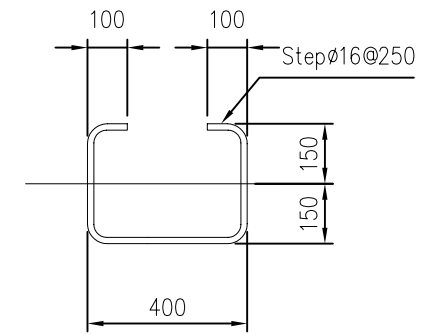
# MISCELLANEOUS WORKS



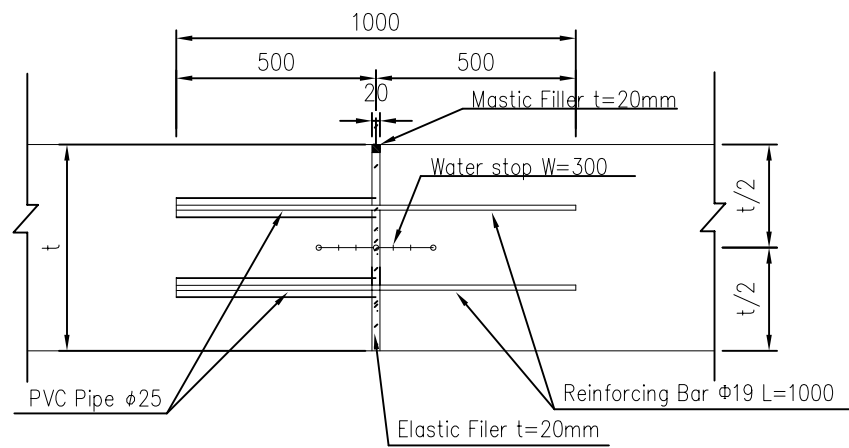
DETAIL OF HEAD CAP OF STEEL SHEET PILE  
SCALE A



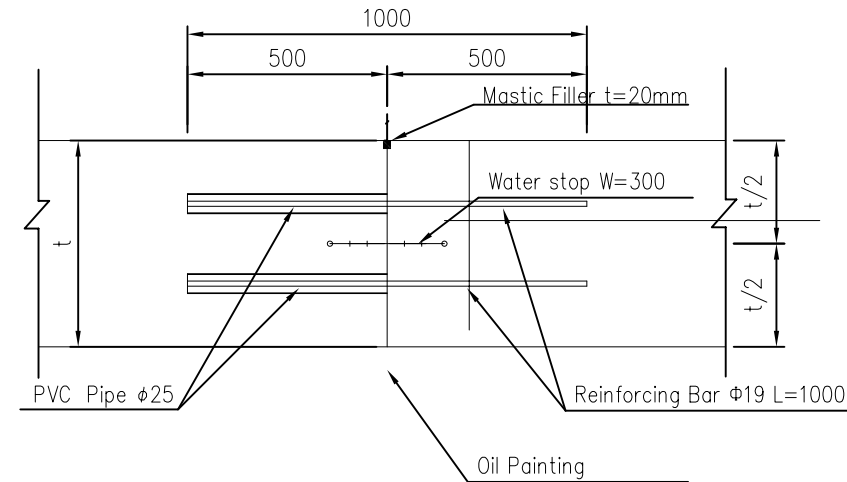
HAND RAIL  
SCALE B



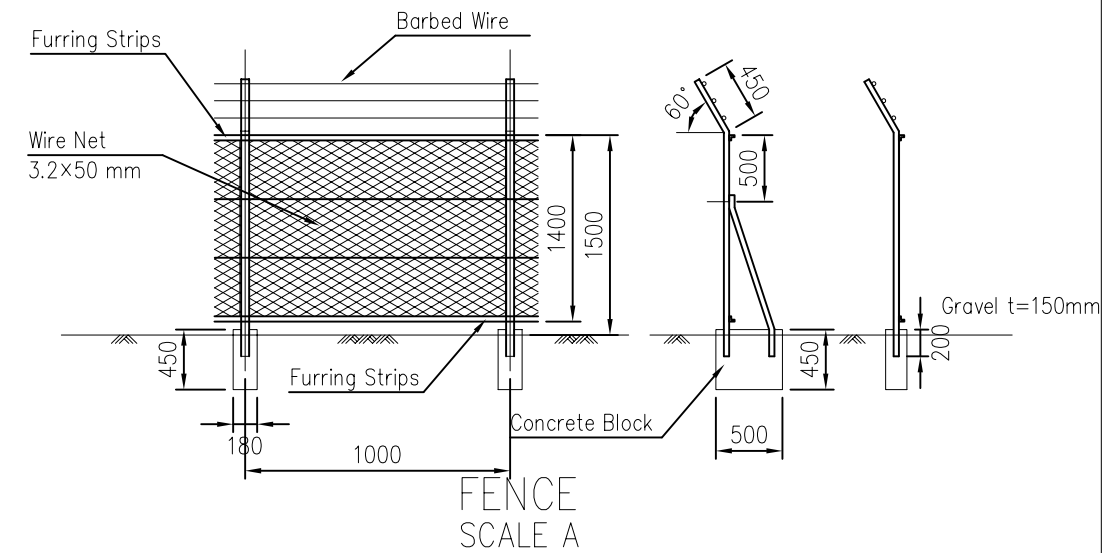
DETAIL OF STEP  
SCALE C



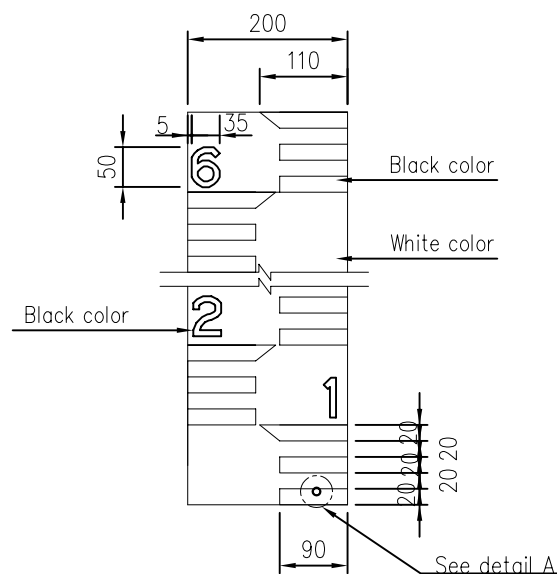
EXPANTION JOINT  
SCALE C



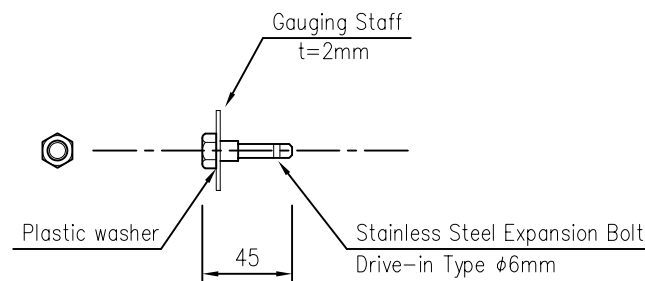
CONTRACTION JOINT  
SCALE C



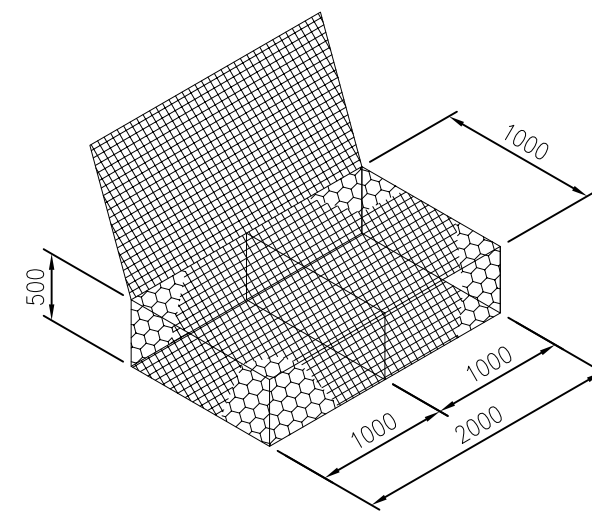
FENCE  
SCALE A



STAFF GAUGE TYPE A  
NOT TO SCALE



DETAIL "A"  
NOT TO SCALE



GABION  
NOT TO SCALE

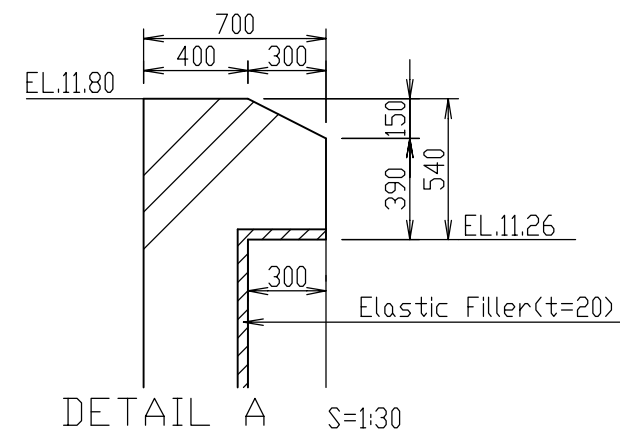
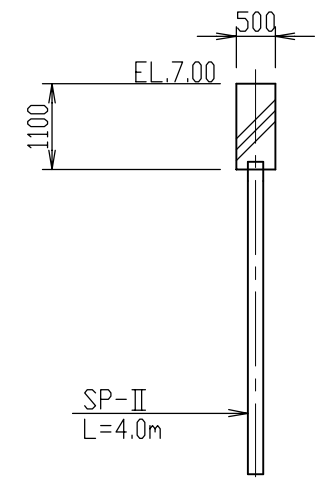
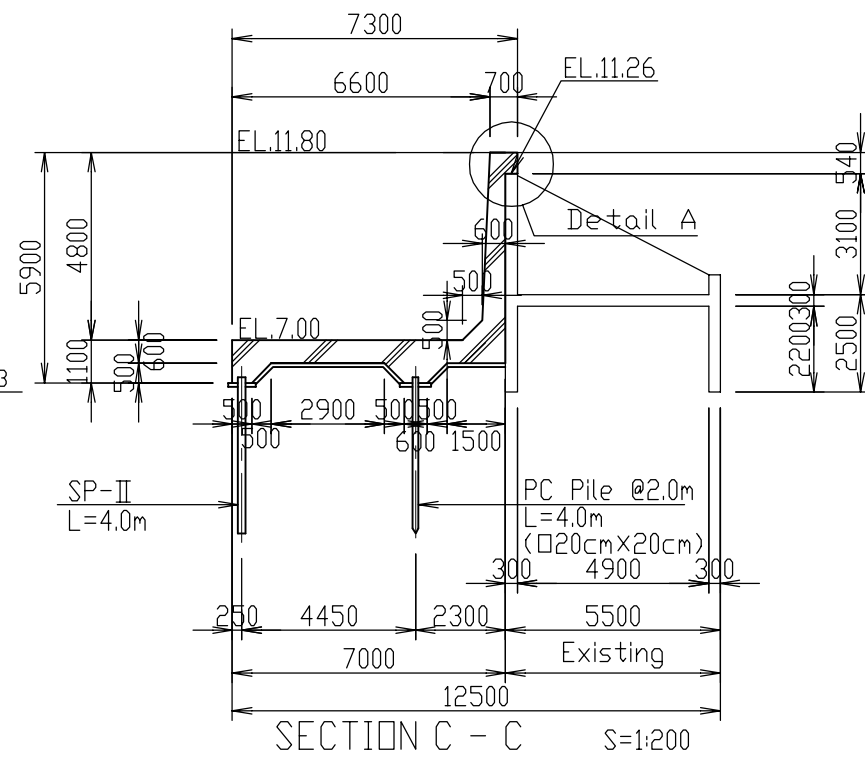
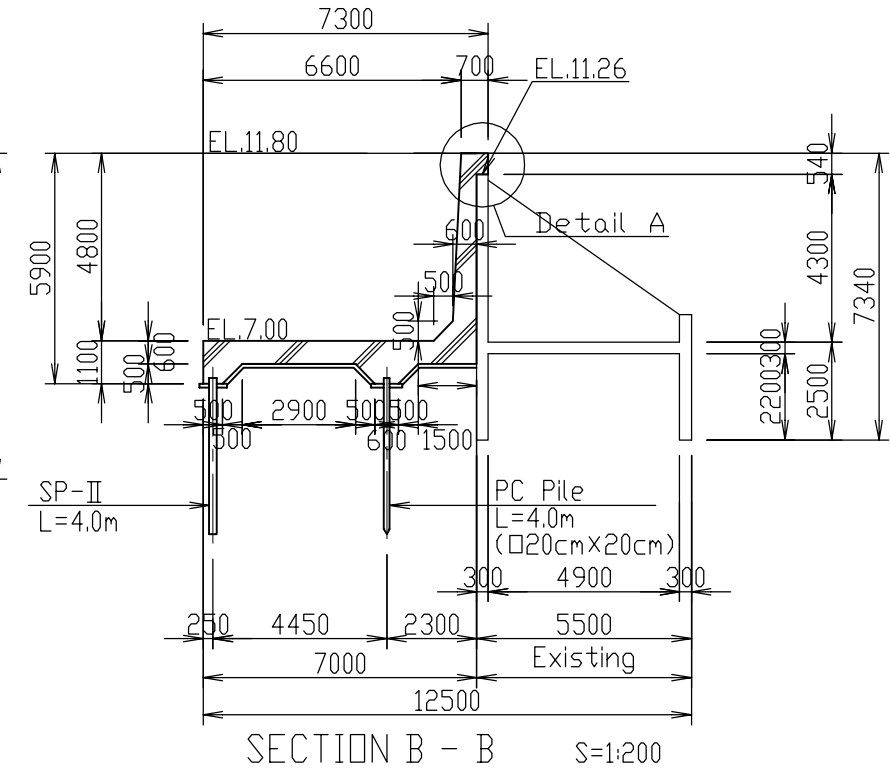
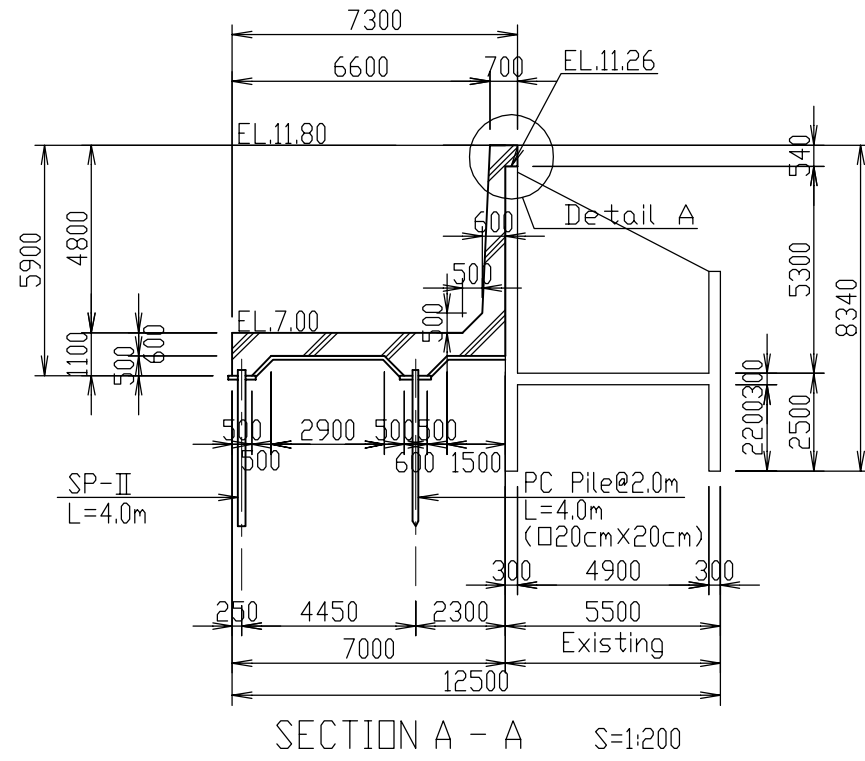
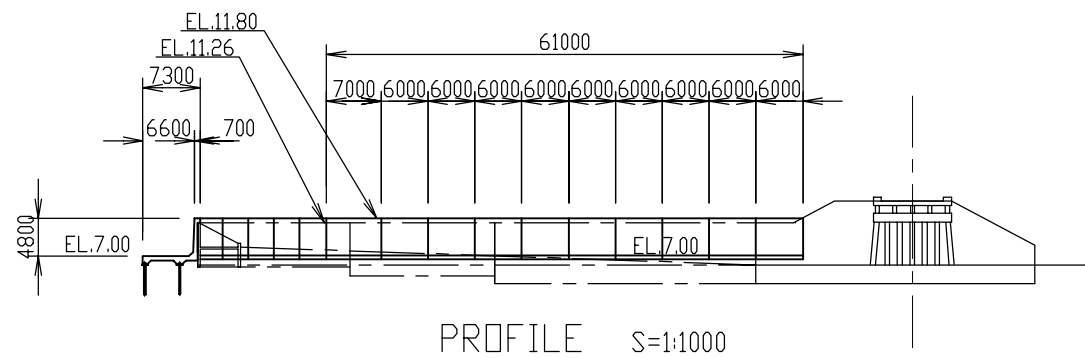
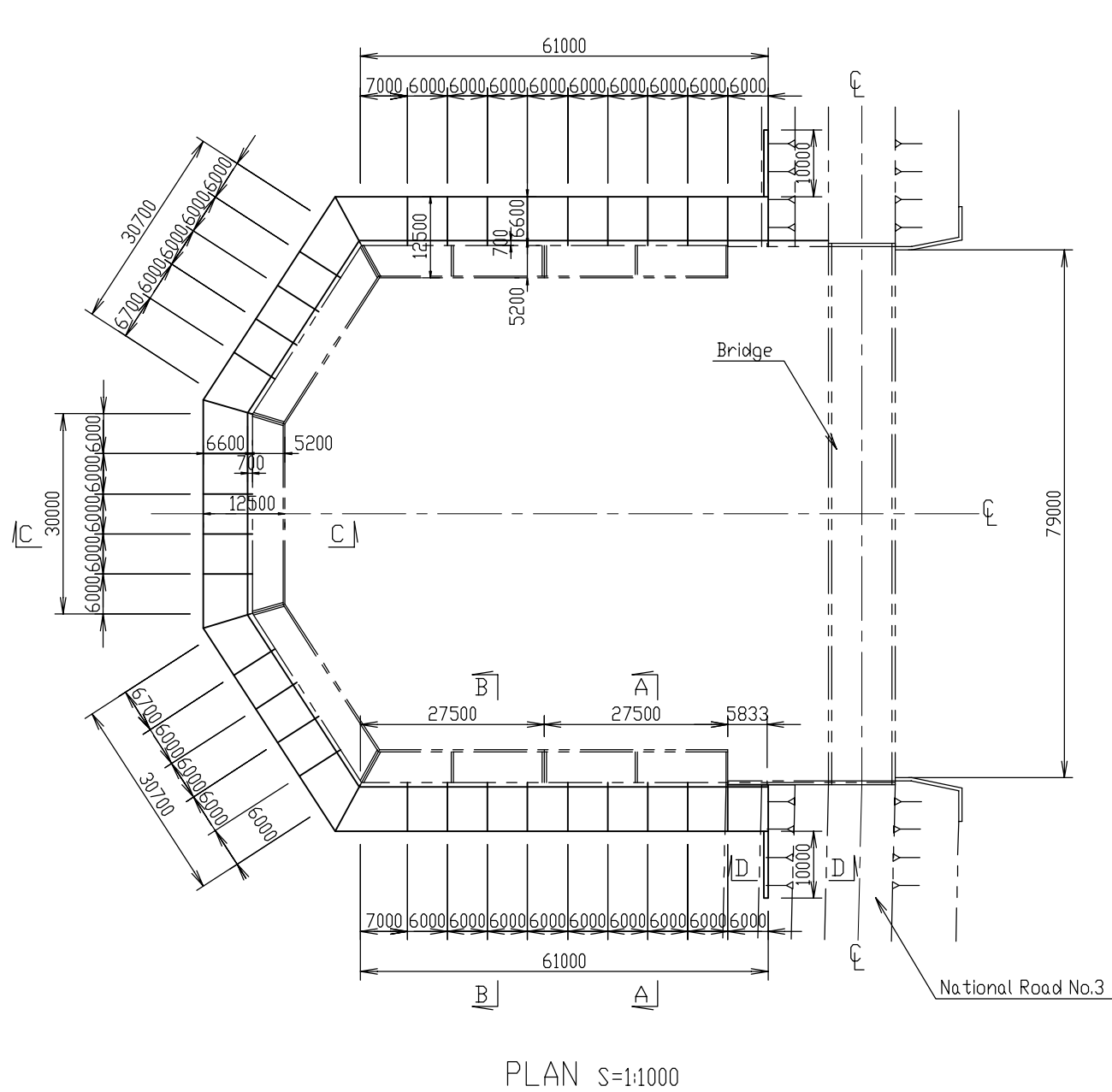
SCALE C 0 0.5 1 m  
S = 1 : 20

SCALE B 0 0.5 1 1.5 m  
S = 1 : 30

SCALE A 0 1 2 3 m  
S = 1 : 60

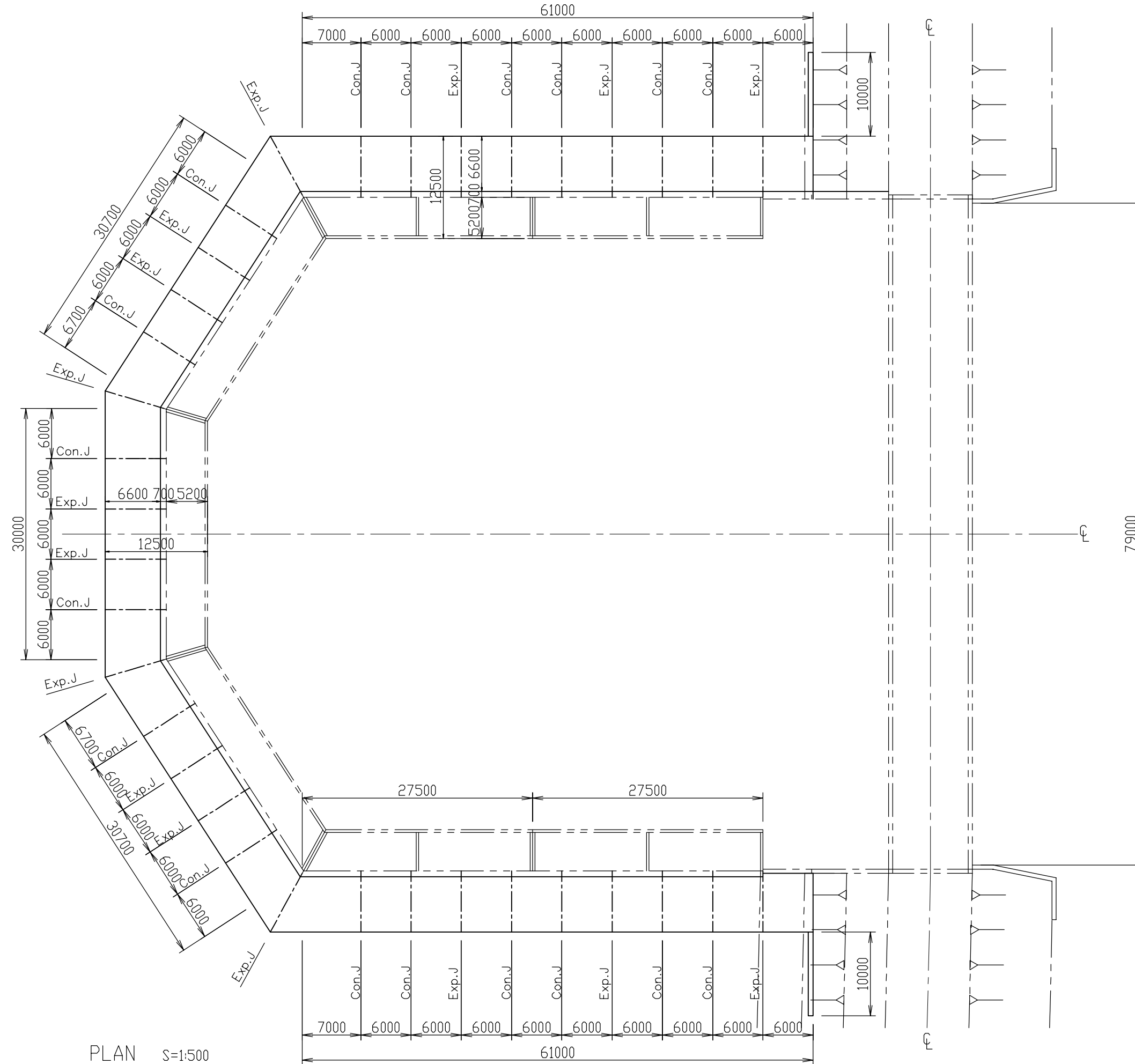
THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING			
頭首工 雑工			
DATE		DRAWING NO.	2-32
NIPPON KOEI CO., LTD., JAPAN			

# REHABILITATION OF 7TH JANUARY DAM (1/2)



THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 既存調整水門改修 1月7日堰改修図(1/2)		
DATE	DRAWING NO.	3-1
NIPPON KOEI CO., LTD., JAPAN		

# REHABILITATION OF 7TH JANUARY DAM (2/2)

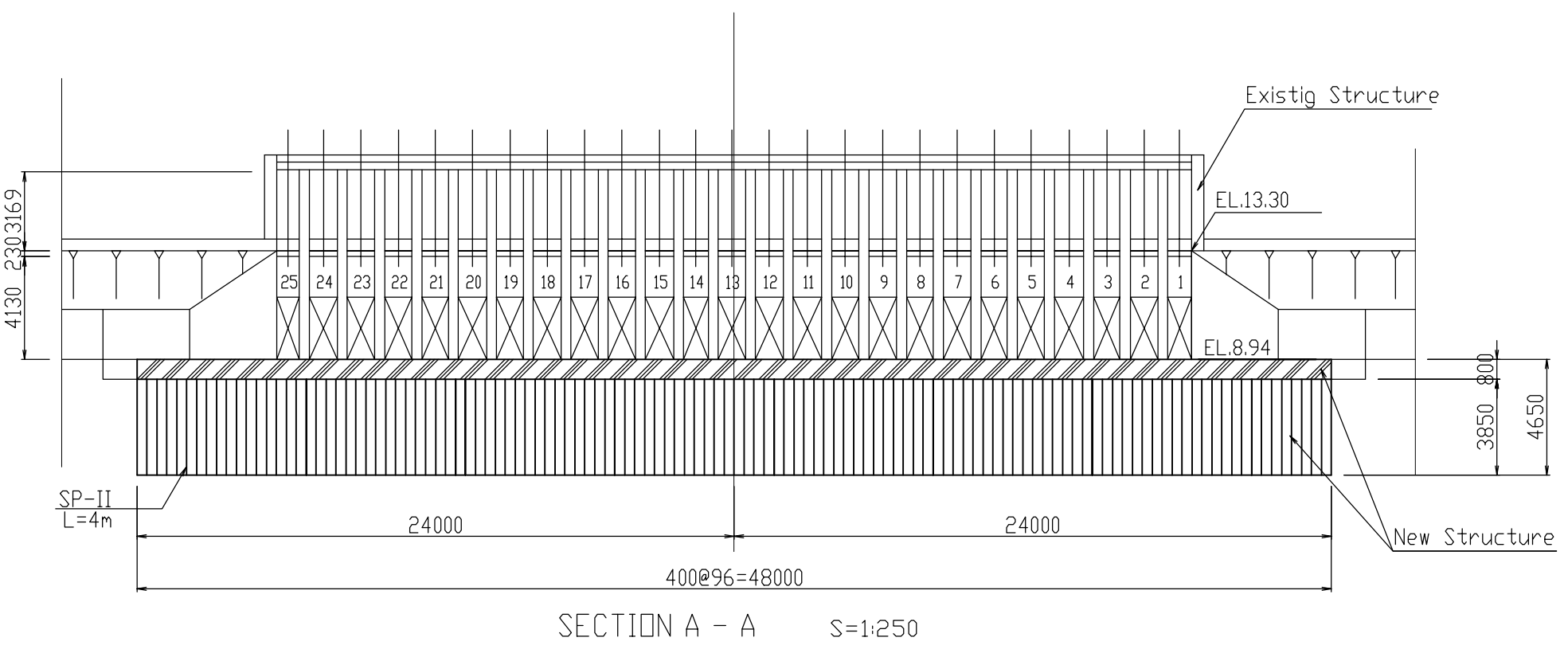
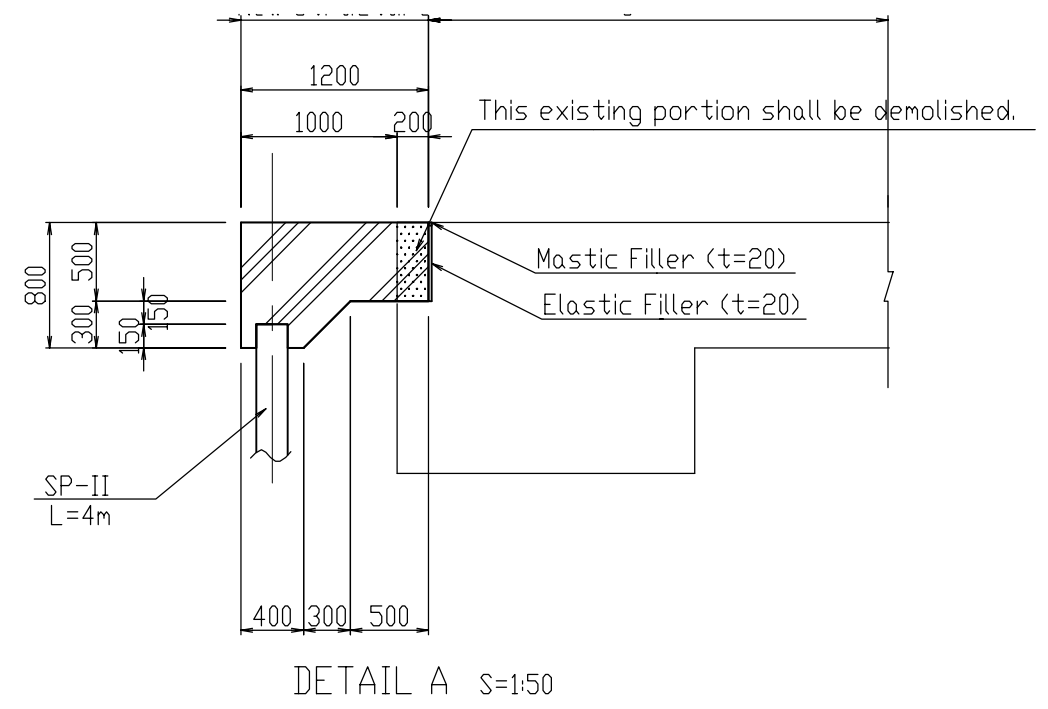
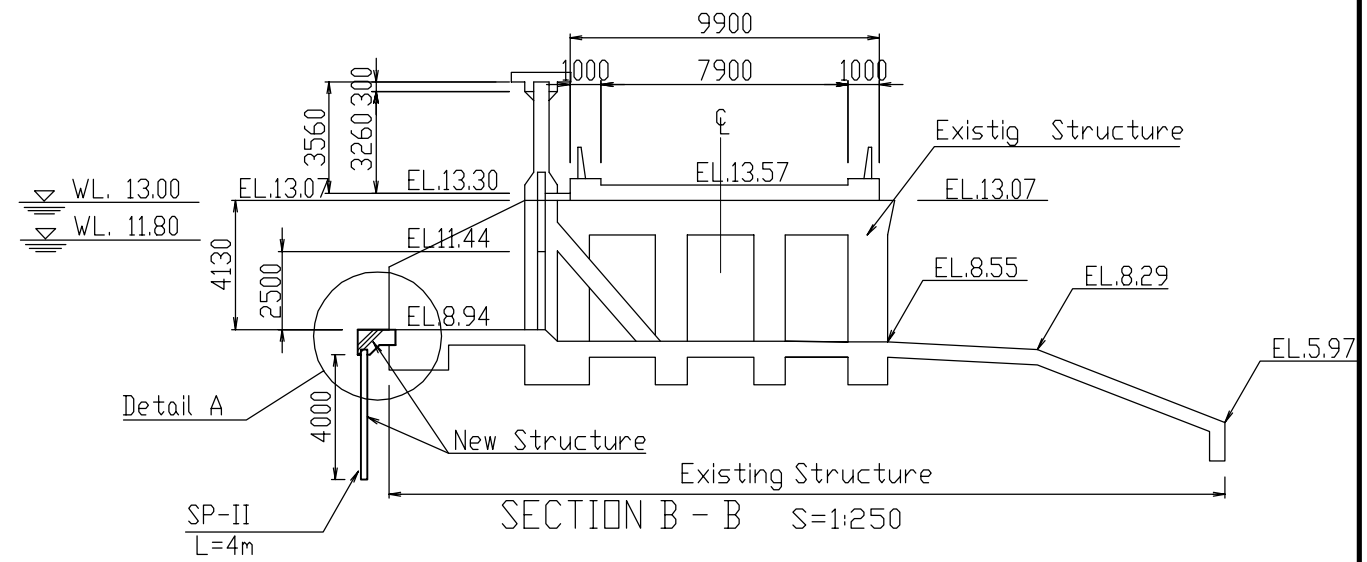
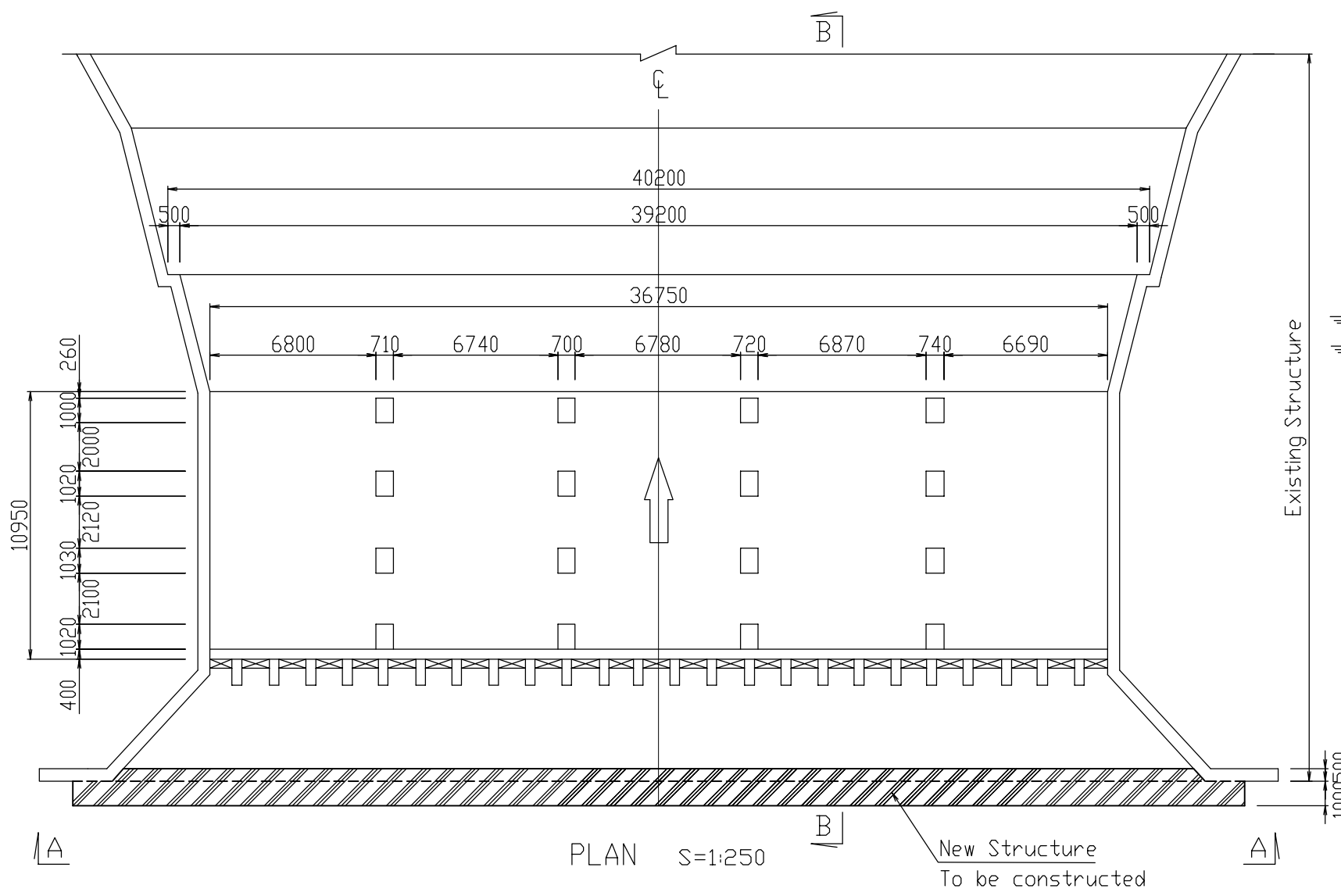


PLAN S=1:500

LEGEND  
 Cont.J : Contraction Joint  
 Exp.J : Expansion Joint

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 既存調整水門改修 1月7日堰改修図(2/2)		
DATE	DRAWING NO.	3-2
NIPPON KOEI CO., LTD., JAPAN		

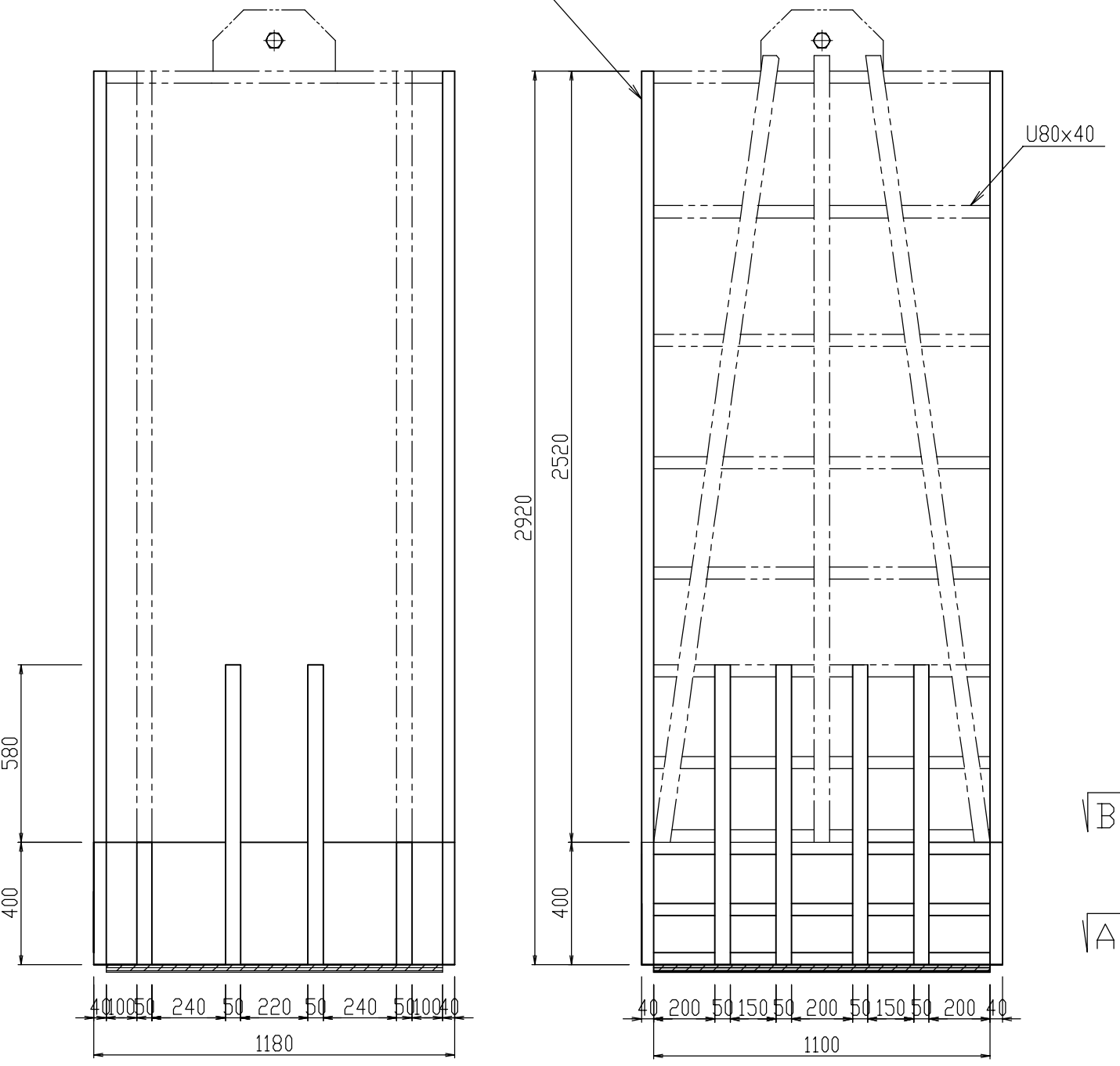
# REHABILITATION OF TUK THLA REGURATOR (1/2)



THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 既存調整水門改修 ツクツラ調整水門改修図(1/2)		
DATE	DRAWING NO.	3-3
NIPPON KOEI CO., LTD., JAPAN		

# REHABILITATION OF TUK THLA REGURATOR(2/2)

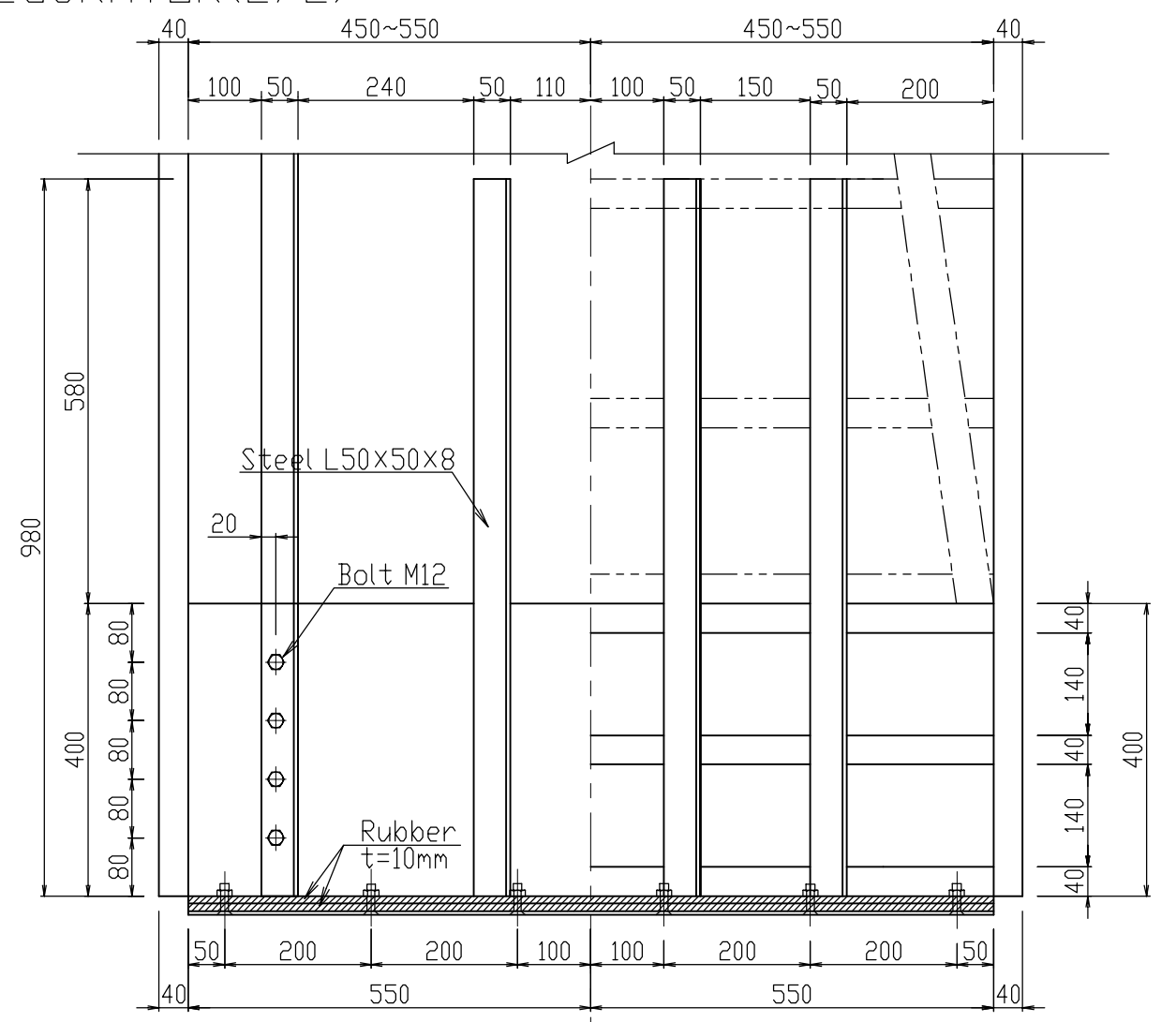
Original Guide Frame (U60x40) shall be replaced with a new one.



FRONT VIEW S=1:20

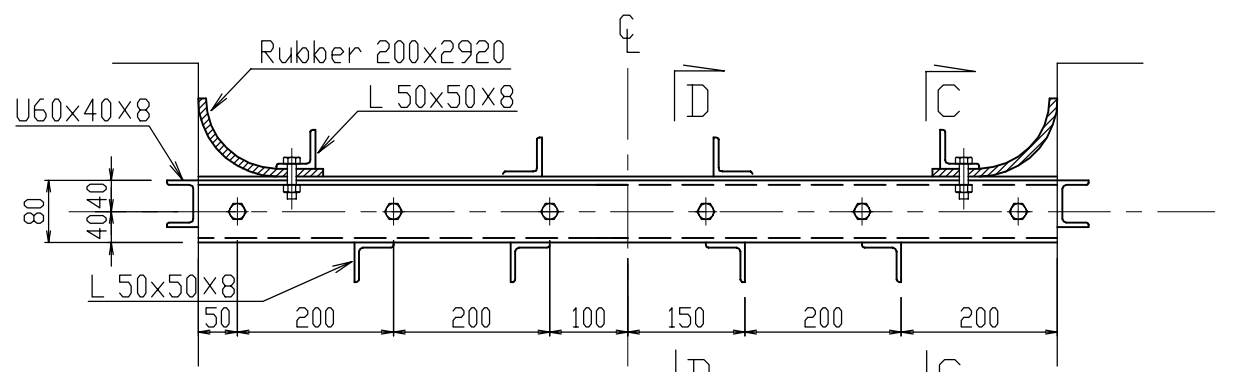
REAR VIEW S=1:20

SECTION S=1:20



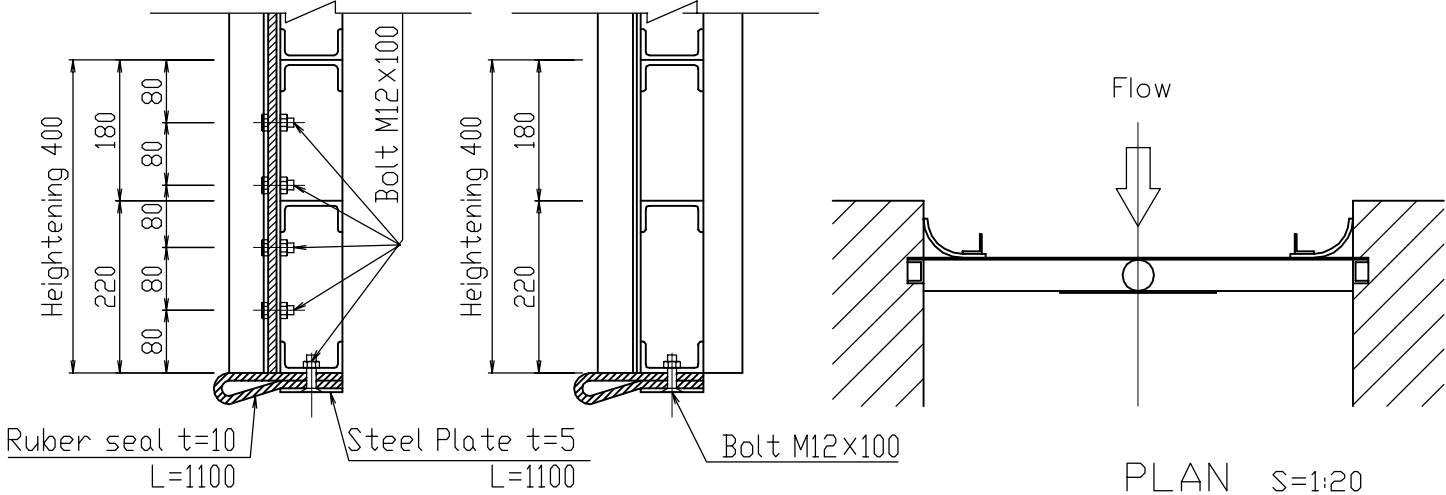
DETAIL OF FRONT VIEW S=1:10

DETAIL OF REAR VIEW S=1:10



SECTION A - A S=1:10

SECTION B - B S=1:10



SECTION C - C S=1:10

SECTION D - D S=1:10

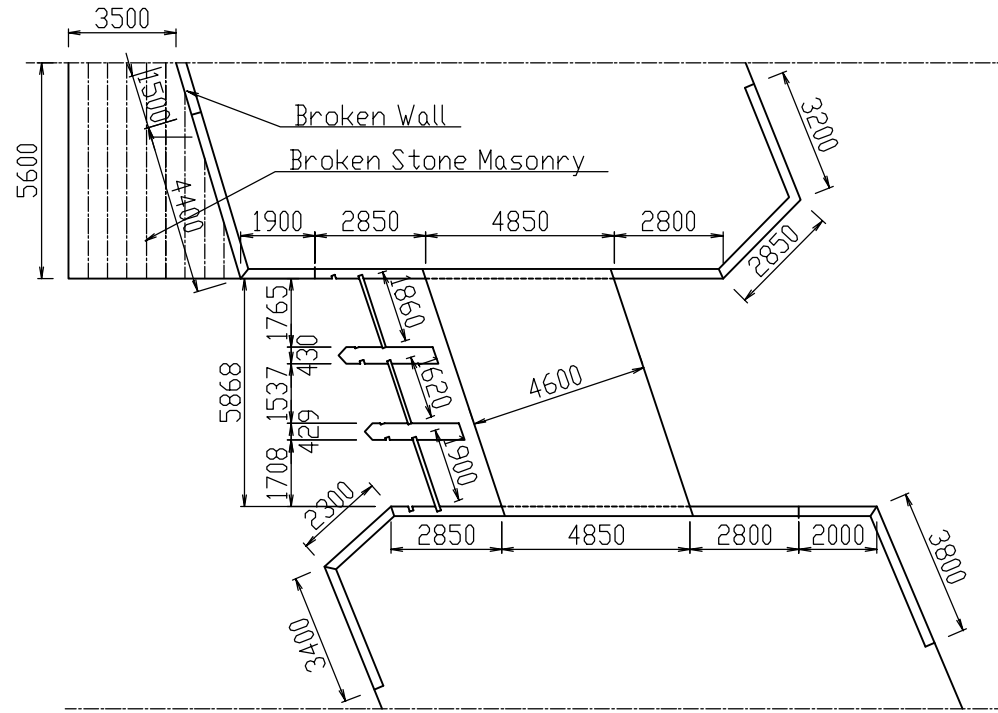
PLAN S=1:20

- Note :1) Unless otherwise specified, SS 400 shall be used for steel works.  
 2) The original rubber material shall be replaced with new one.  
 3) Painting shall be made for the original gate leaves and new ones.  
 4) The heightening of gate (400mm) shall be adjusted in order to set the top elevation of each gate as EL. 11.80m.  
 5) The inside widths of the existing leaves vary between 0.9m and 1.1m. The respective gate leaves shall be rehabilitated based on this drawing.

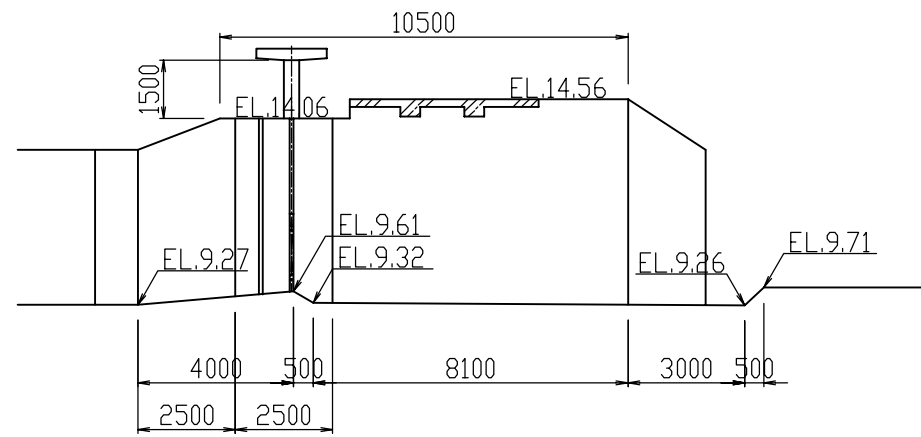
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 既存調整水門改修 ツクツラ調整水門改修図(2/2)		
DATE	DRAWING NO.	3-4
NIPPON KOEI CO., LTD., JAPAN		

# REHABILITATION OF DEUM RUSS REGULATOR(1/2)

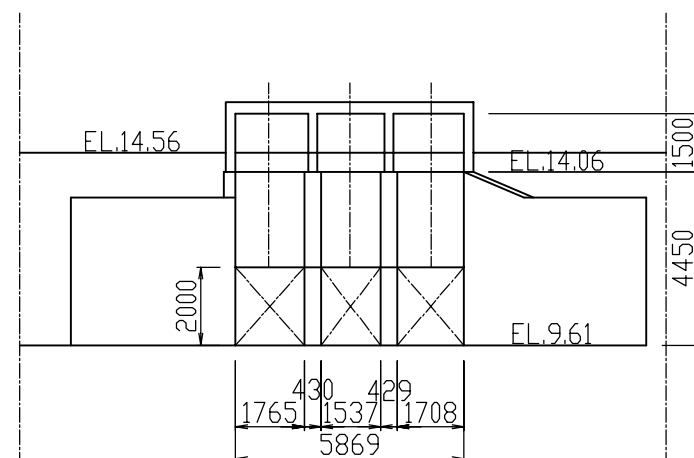
EXISTING DEUM RUSS REGULATOR



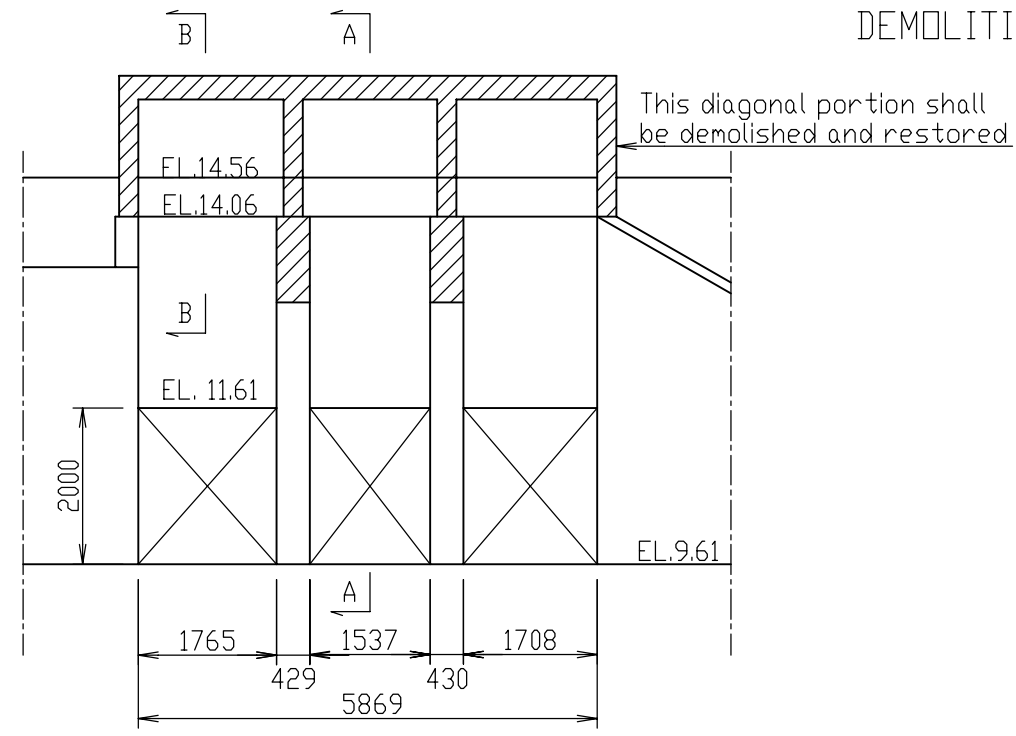
PLAN S=1:200



PROFILE S=1:200



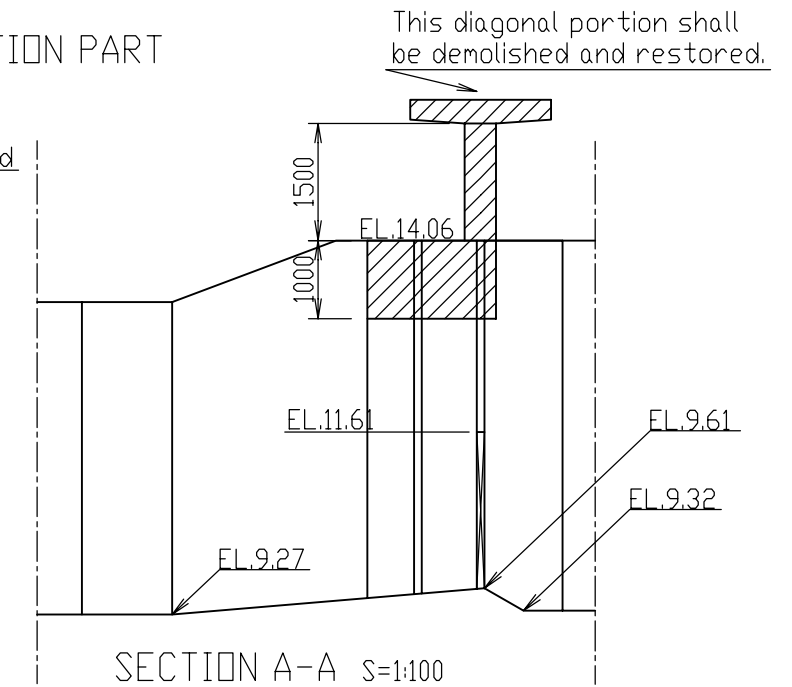
FRONT VIEW S=1:200



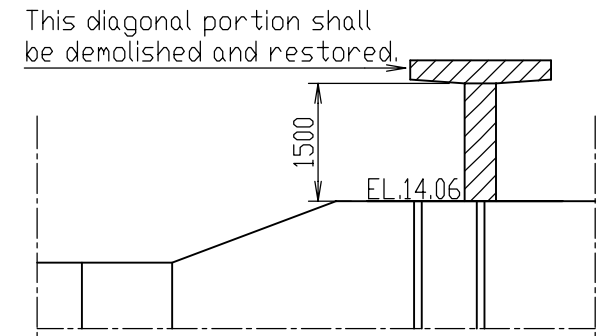
FRONT VIEW S=1:100

Note: The top of the three existing gates (EL.11.61) shall be heightened to EL.11.80m.  
 Gate Height  
 Existing Gate: 2.00m  
 After rehabilitation: 2.20m

DEMOLITION PART

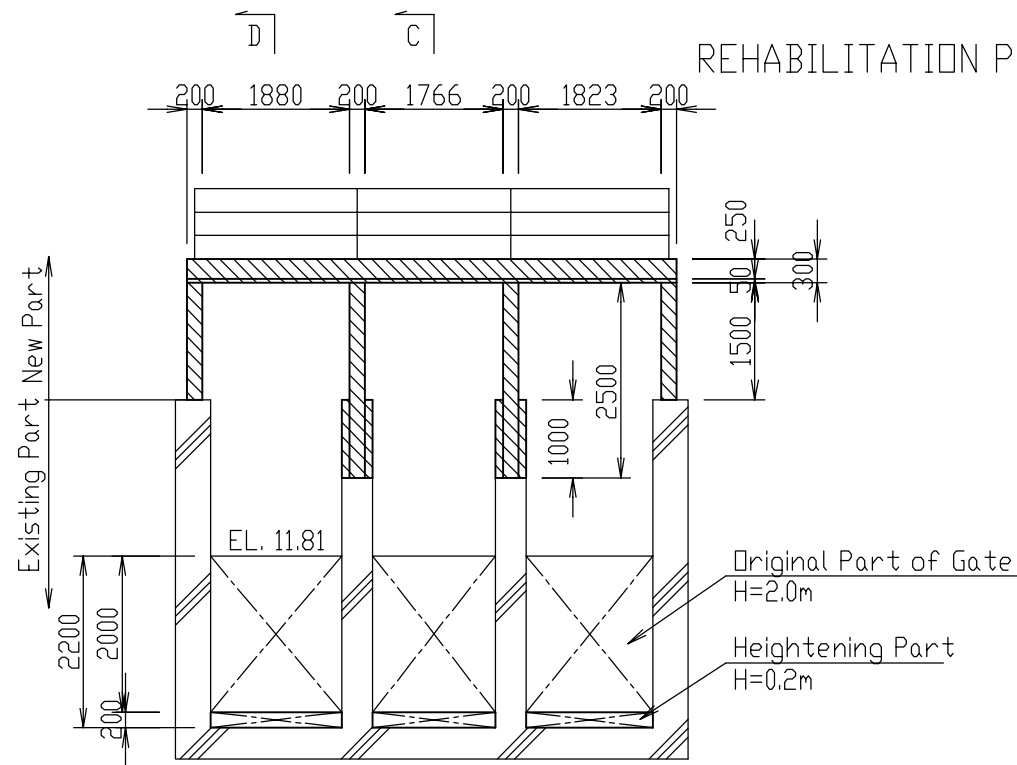


SECTION A-A S=1:100



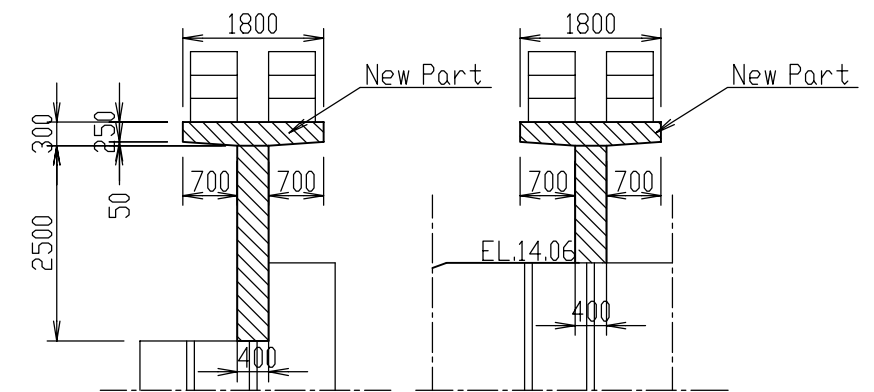
SECTION B-B S=1:100

REHABILITATION PLAN



FRONT VIEW S=1:100

Note: 1) The broken wall at left bank of upstream shall be demolished and restored. After restored: L-Type Wall H=Approx.5.0 m, L=5.0m, t=250mm  
 2) The broken stone masonry at left bank of upstream shall be repaired.



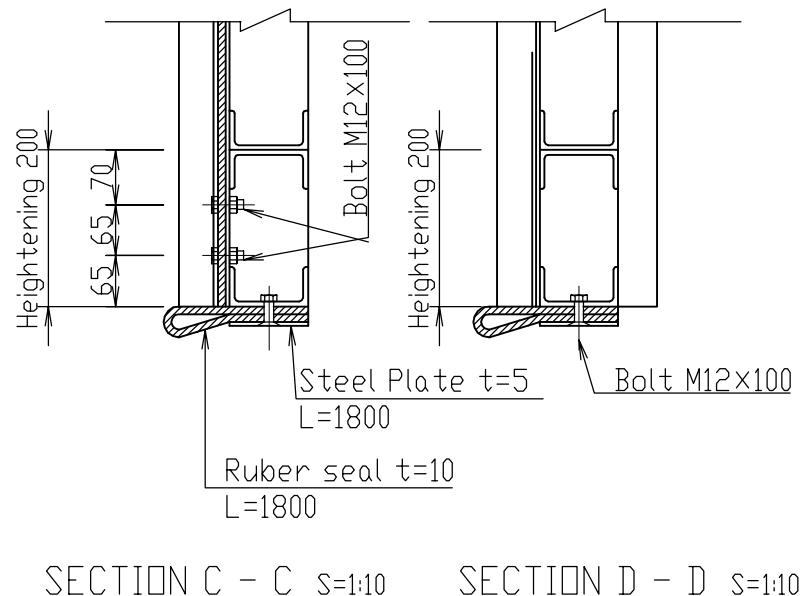
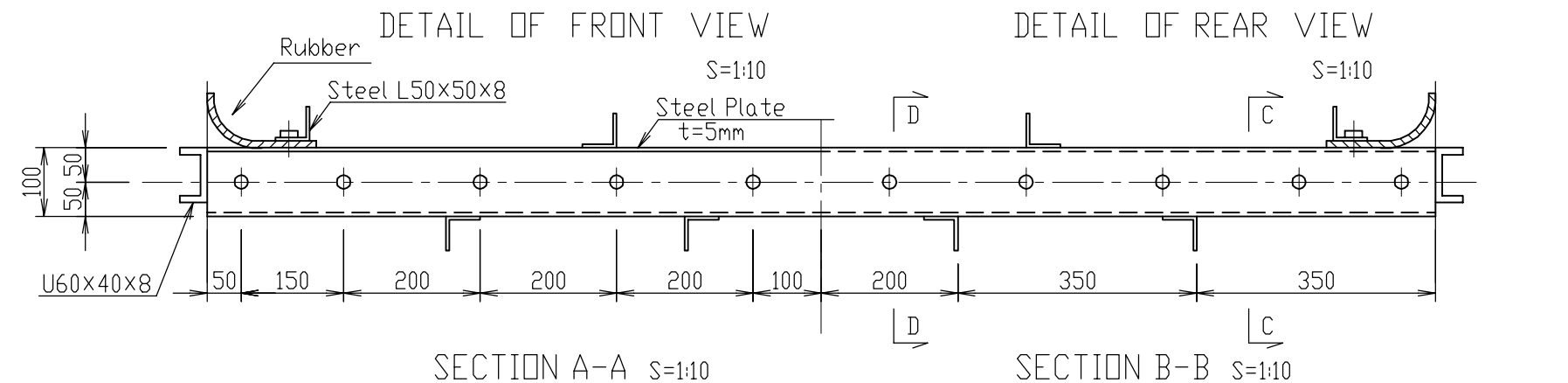
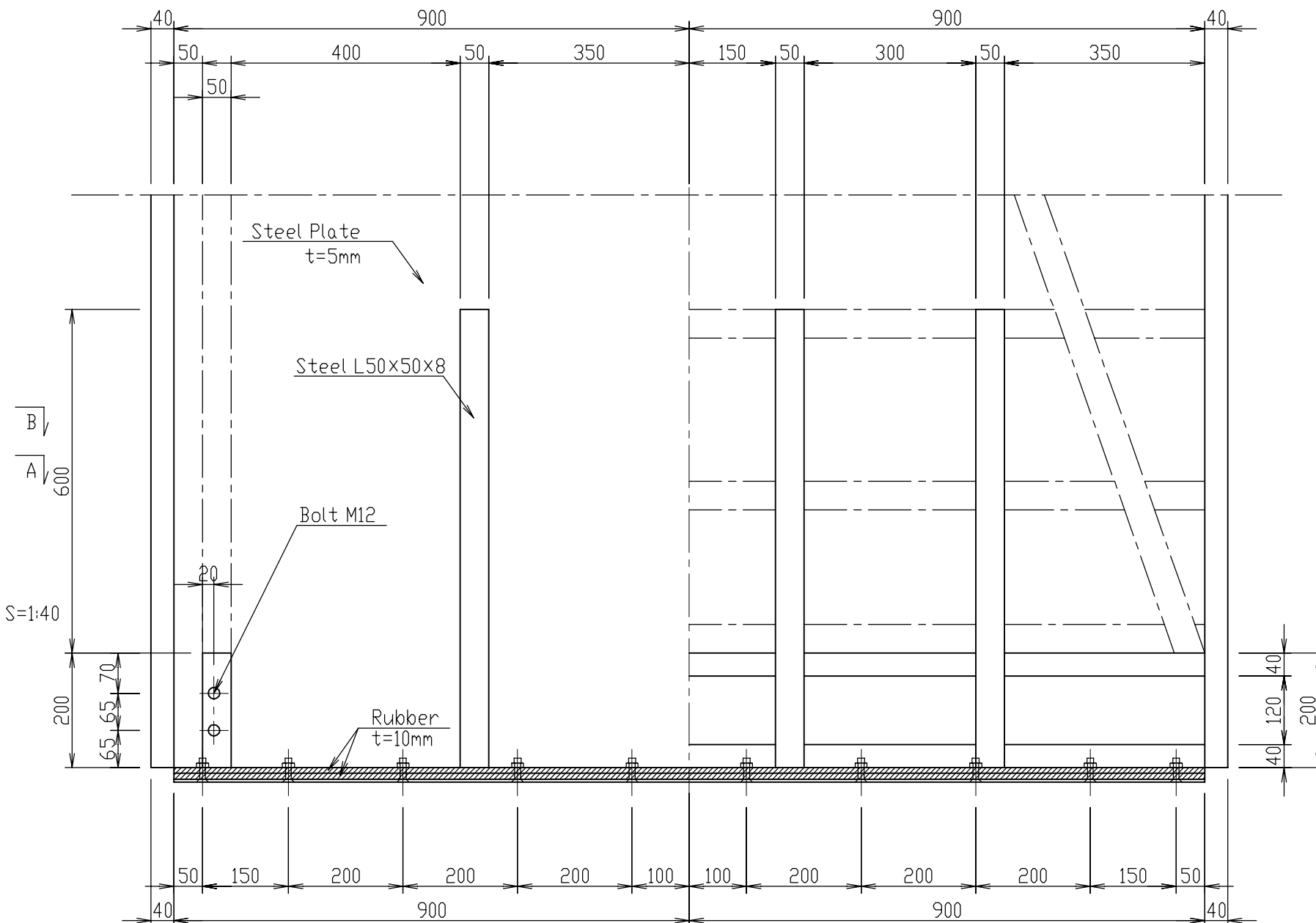
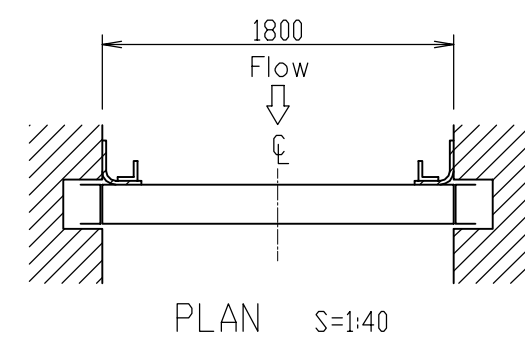
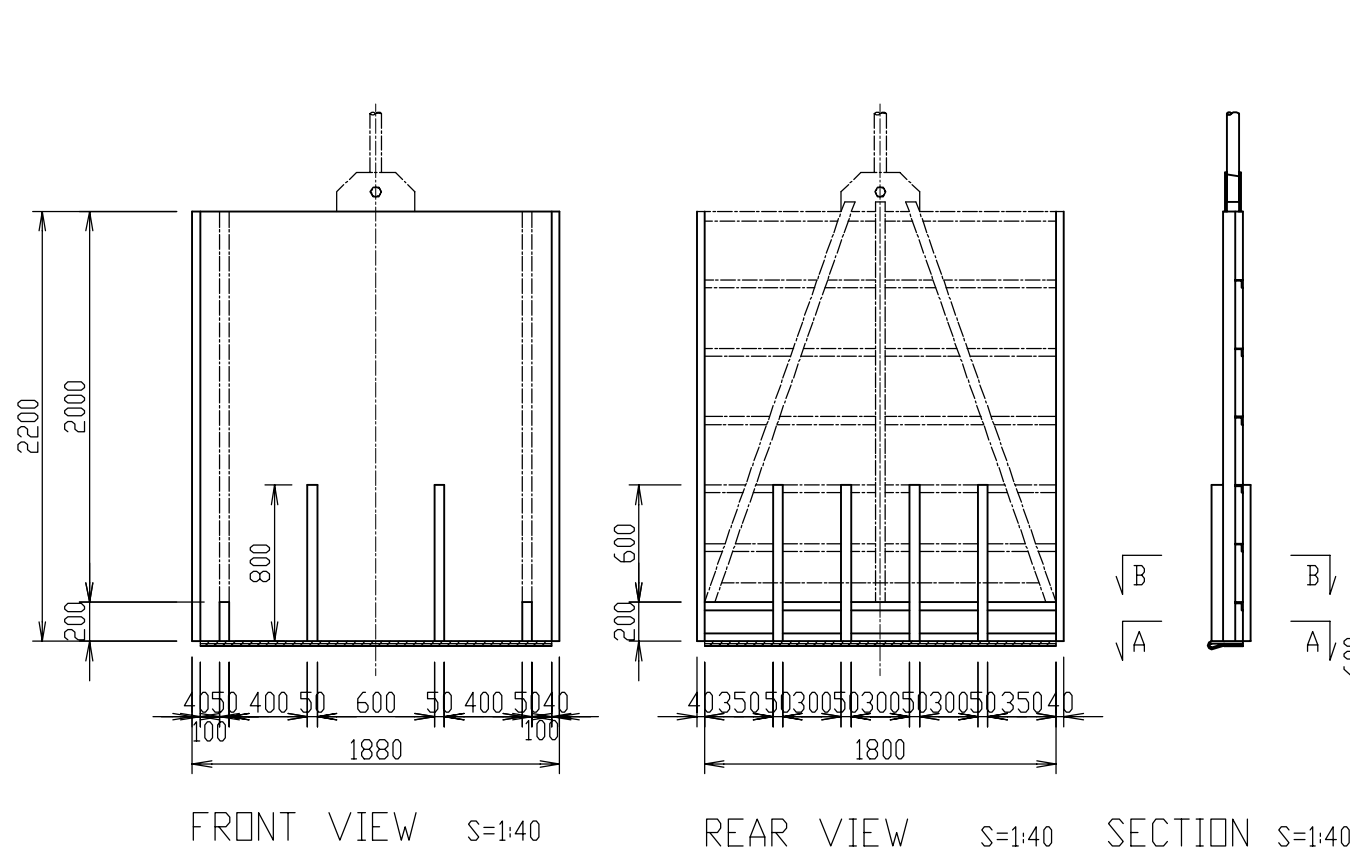
SECTION C-C S=1:100

SECTION D-D S=1:100

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 既存調整水門改修 ドエムラス調整水門改修図(1/2)		
DATE	DRAWING NO.	3-5
NIPPON KOEI CO., LTD., JAPAN		



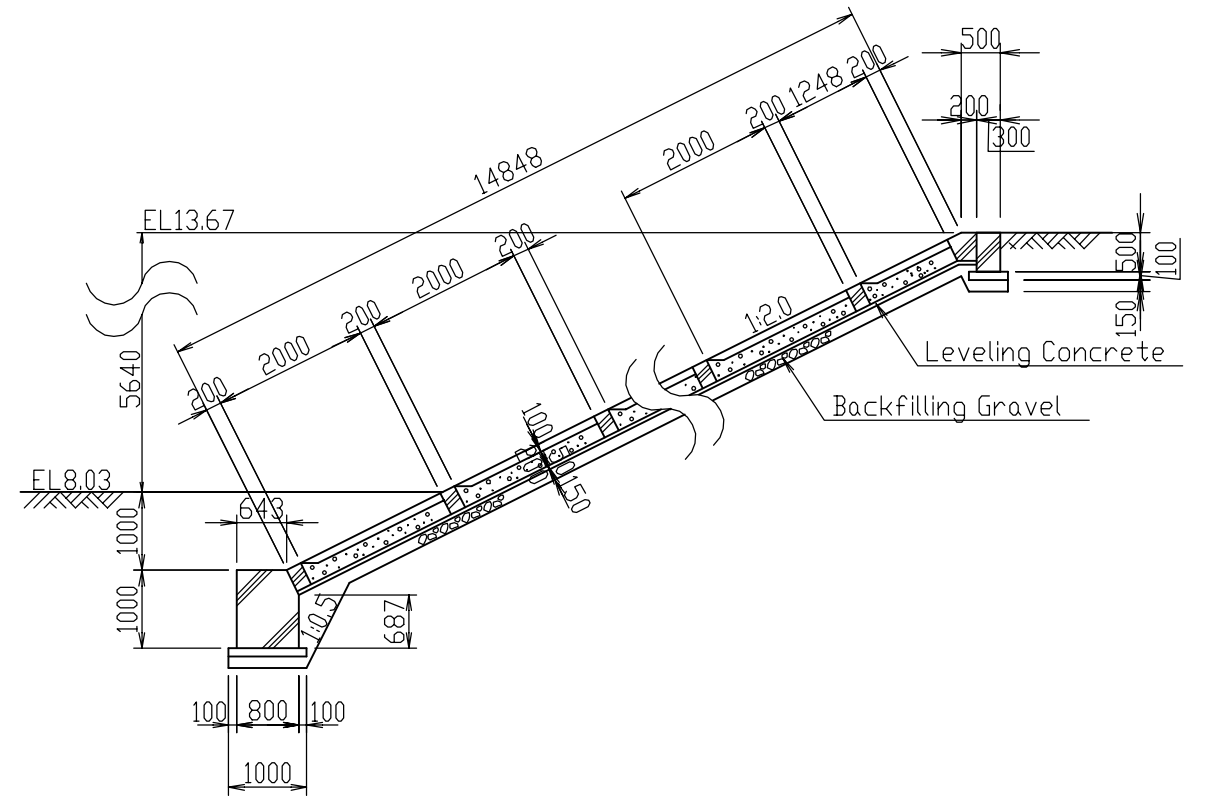
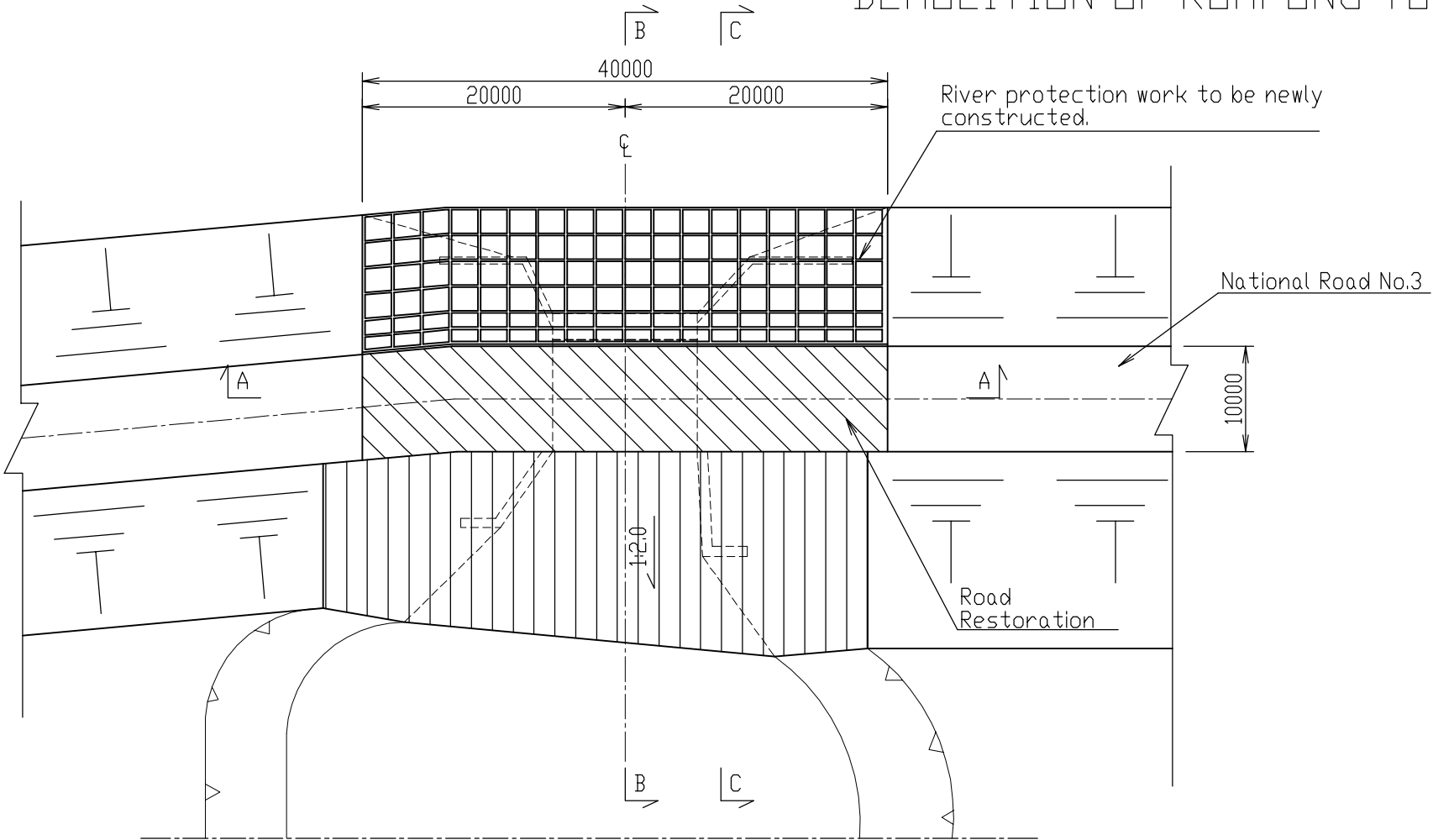
# REHABILITATION OF DEUM RUSS REGULATOR(2/2)



Note: 1) Unless otherwise specified, SS 400 shall be used for steel works.  
 2) The original rubber material shall be replaced with new one.  
 3) The original skin plate shall be replaced with new one.  
 4) Painting shall be made for the original gate leaves and new ones.  
 5) The heightening of gate (200mm) shall be adjusted in order to set the top elevation of each gate as EL. 11.80m.  
 6) The inside widths of the existing leaves vary between 1.7m and 1.8m. The respective gate leaves shall be rehabilitated based on this drawing.

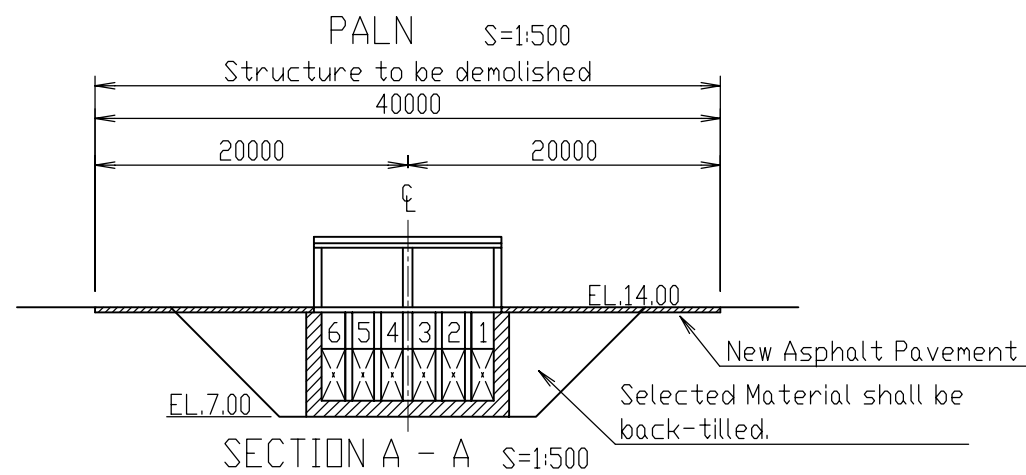
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
既存調整水門改修 ドエムラス調整水門改修図(2/2)		
DATE	DRAWING NO.	3-6
NIPPON KOEI CO., LTD., JAPAN		

# DEMOLITION OF KOMPONG TOUL REGULATOR

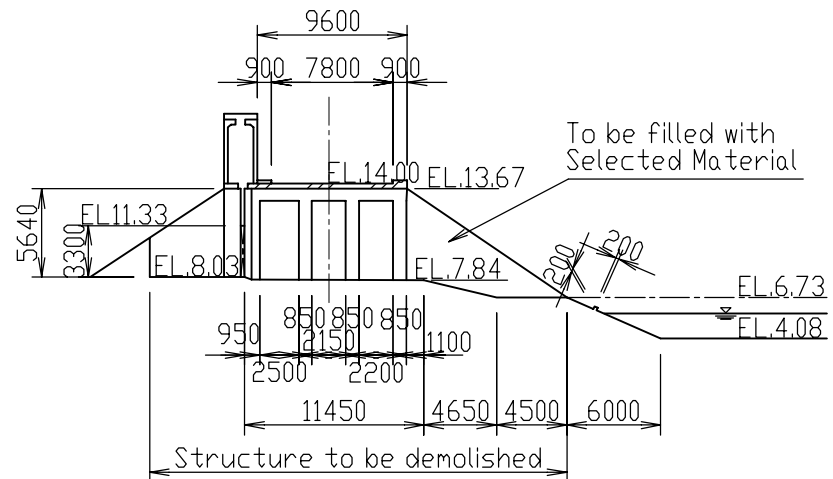


TYPICAL CROSS SECTION OF RIVER PROTECTION WORK (SECTION C-C)

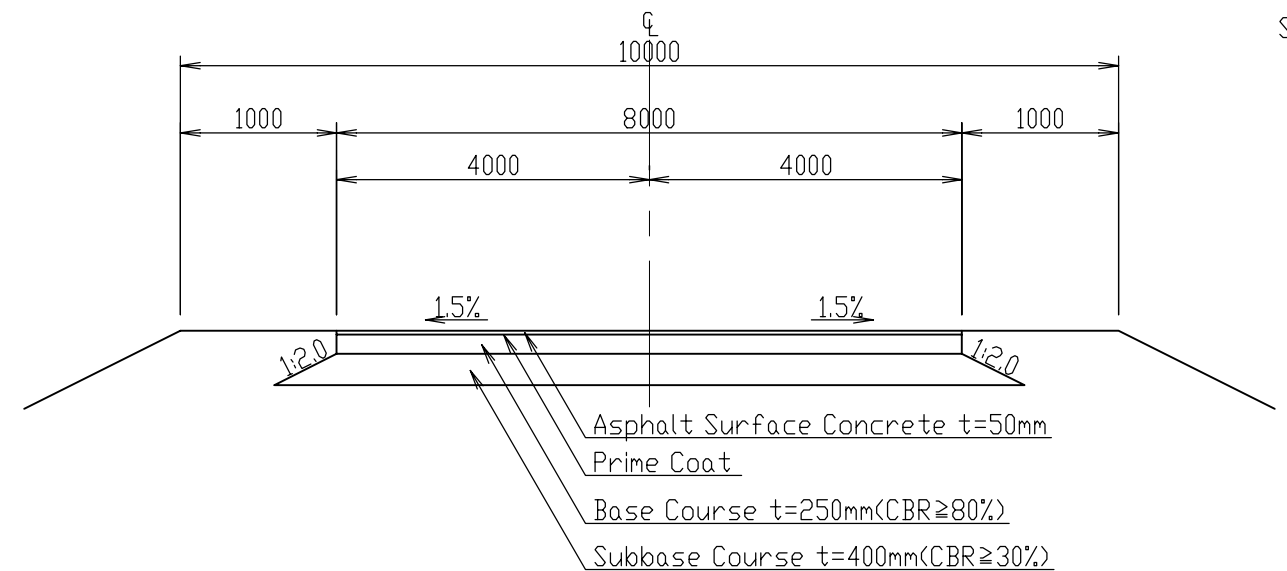
S=1:100



SECTION A - A S=1:500



SECTION B - B S=1:500



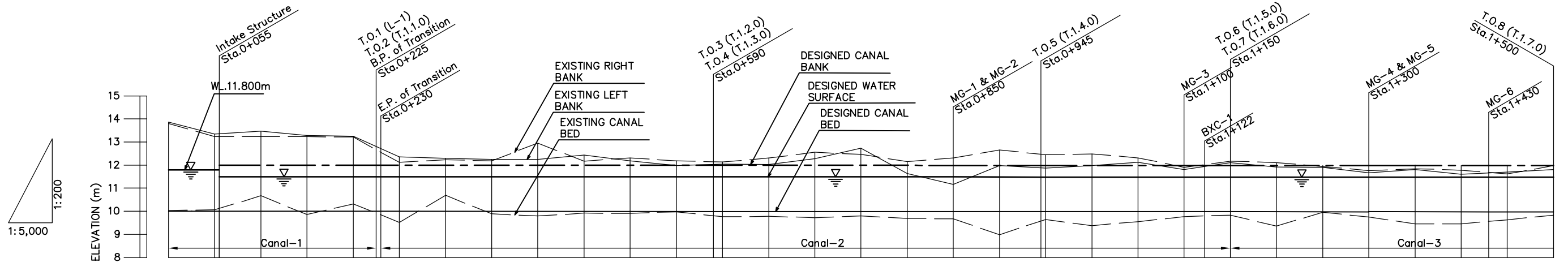
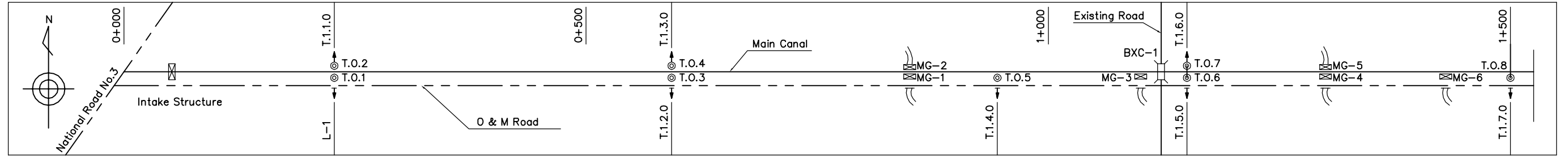
TYPICAL CROSS SECTION OF ROAD FOR REHABILITATION (SECTION C-C)

S=1:100

Note: The boundary for the road restoration will finally be decided according to the demolition of the existing structure.

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 既存調整水門改修 コンボントール調整水門撤去図		
DATE	DRAWING NO.	3-7
NIPPON KOEI CO., LTD., JAPAN		

# PLAN AND PROFILE OF MAIN CANAL (1/4)

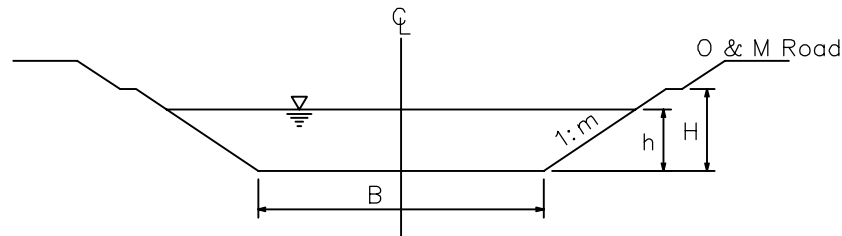


DESIGN	TOP ELEVATION OF CONCRETE BLOCK LINING		WATER SURFACE ELEVATION	CANAL BED ELEVATION	EXISTING			ACCUMULATED DISTANCE	DISTANCE	STATION NO.
	Left	Right			Left Bank Elevation	Right Bank Elevation	Canal Bed Elevation			
		12.000	11.800	10.000	13.858	13.806	10.038	0	25	0+000
			11.800	10.000				25	25	0+025
			11.800	10.000				50	50	0+050
			11.500	10.000				55	55	0+055
			11.499	9.999				100	50	0+100
			11.498	9.998				150	50	0+150
			11.497	9.997				200	50	0+200
			11.497	9.997				225	25	0+225
			11.497	9.997				230	5	0+230
			11.497	9.997				250	20	0+250
			11.496	9.996				300	50	0+300
			11.495	9.995				350	50	0+350
			11.494	9.994				400	50	0+400
			11.493	9.993				450	50	0+450
			11.492	9.992				500	50	0+500
			11.492	9.992				550	50	0+550
			11.491	9.991				590	40	0+590
			11.491	9.991				600	10	0+600
			11.490	9.990				650	50	0+650
			11.489	9.989				700	50	0+700
			11.489	9.989				750	50	0+750
			11.488	9.988				800	50	0+800
			11.487	9.987				850	50	0+850
			11.486	9.986				900	50	0+900
			11.485	9.985				945	45	0+945
			11.485	9.985				950	5	0+950
			11.484	9.984				1,000	50	1+000
			11.483	9.983				1,050	50	1+050
			11.482	9.982				1,100	50	1+100
			11.481	9.981				1,122	22	1+122
			11.480	9.980				1,150	28	1+150
			11.479	9.979				1,200	50	1+200
			11.478	9.978				1,250	50	1+250
			11.477	9.977				1,300	50	1+300
			11.476	9.976				1,350	50	1+350
			11.475	9.975				1,400	50	1+400
			11.475	9.975				1,430	30	1+430
			11.475	9.975				1,450	20	1+450
			11.474	9.974				1,500	50	1+500

## LEGEND

- DESIGNED CANAL BANK
- DESIGNED WATER SURFACE
- DESIGNED CANAL BED
- EXISTING LEFT BANK
- EXISTING RIGHT BANK
- EXISTING CANAL BED

BXC : BOX CULVERT  
 T.O. : TURNOUT  
 M.G. : MAINTENANCE FLOW GATE



CANAL NAME	Q (m <sup>3</sup> /s)	V (m/s)	Gradient (1/i)	B (m)	h (m)	m	H (m)	n	
								Bottom	Slope
CANAL-1	2.730	0.182	80,000	7.00	1.50	1.5	2.00	0.025	0.017
CANAL-2	2.379 - 2.351	0.198	70,000	5.00	1.50	1.5	2.00	0.025	0.017
CANAL-3	2.327 - 2.305	0.194	73,000	5.00	1.50	1.5	2.00	0.025	0.017

THE KINGDOM OF CAMBODIA

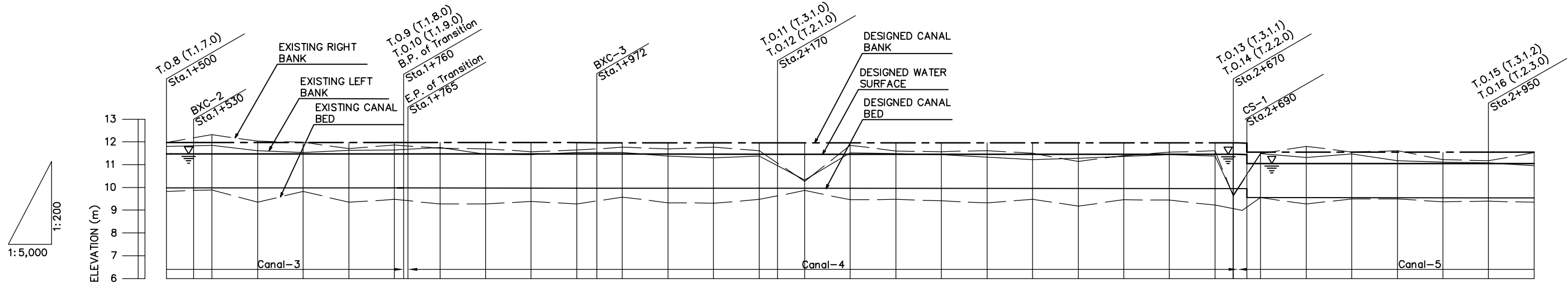
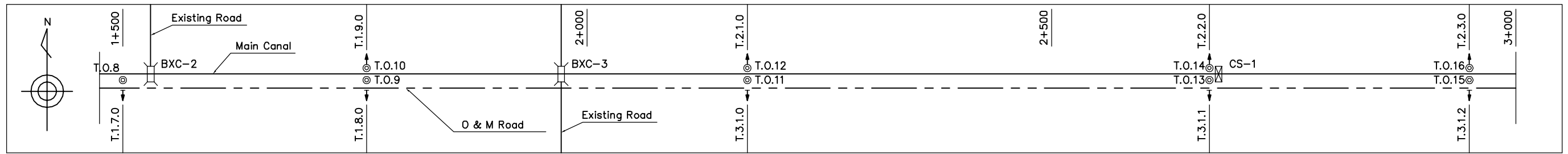
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM

TITLE OF DRAWING  
 灌溉施設  
 幹線水路平面縦断面図 (1/4)

DATE		DRAWING NO.	4-1
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NIPPON KOEI CO., LTD., JAPAN

# PLAN AND PROFILE OF MAIN CANAL (2/4)

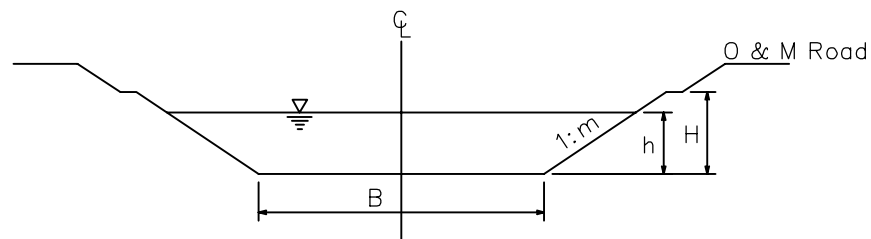


STATION NO.	DISTANCE	ACCUMULATED DISTANCE	EXISTING			DESIGN		
			LEFT BANK ELEVATION	RIGHT BANK ELEVATION	CANAL BED ELEVATION	CANAL BED ELEVATION	WATER SURFACE ELEVATION	TOP ELEVATION OF CONCRETE BLOCK LINING
1+500	50	1,500	11.802	11.973	9.828	9.974	11.474	11.974
1+530	30	1,530					11.473	11.973
1+550	20	1,550	11.841	12.314	9.892	9.973	11.473	11.973
1+600	50	1,600	11.613	12.034	9.347	9.972	11.472	11.972
1+650	50	1,650	11.535	11.984	9.829	9.971	11.471	11.971
1+700	50	1,700	11.630	11.707	9.345	9.970	11.470	11.970
1+750	50	1,750	11.652	11.853	9.475	9.969	11.469	11.969
1+760	10	1,760				9.969	11.469	11.969
1+765	5	1,765				9.969	11.469	11.969
1+800	35	1,800	11.751	11.724	9.279	9.968	11.468	11.968
1+850	50	1,850	11.455	11.692	9.281	9.967	11.467	11.967
1+900	50	1,900	11.440	11.571	9.379	9.966	11.466	11.966
1+950	50	1,950	11.539	11.640	9.274	9.965	11.465	11.965
1+972	22	1,972				9.965	11.465	11.965
2+000	28	2,000	11.535	11.765	9.575	9.964	11.464	11.964
2+050	50	2,050	11.378	11.695	9.326	9.963	11.463	11.963
2+100	50	2,100	11.291	11.763	9.306	9.962	11.462	11.962
2+150	50	2,150	11.378	11.609	9.471	9.961	11.461	11.961
2+170	20	2,170				9.961	11.461	11.961
2+200	30	2,200	10.326	10.266	9.867	9.960	11.460	11.960
2+250	50	2,250	11.519	11.856	9.456	9.960	11.460	11.960
2+300	50	2,300	11.481	11.591	9.476	9.959	11.459	11.959
2+350	35	2,350	11.441	11.574	9.411	9.958	11.458	11.958
2+400	50	2,400	11.326	11.620	9.320	9.957	11.457	11.957
2+450	50	2,450	11.218	11.495	9.475	9.956	11.456	11.956
2+500	50	2,500	11.279	11.147	9.179	9.955	11.455	11.955
2+550	50	2,550	11.364	11.392	9.462	9.954	11.454	11.954
2+600	50	2,600	11.447	11.544	9.439	9.953	11.453	11.953
2+650	50	2,650	11.377	11.607	9.224	9.952	11.452	11.952
2+670	20	2,670				9.952	11.452	11.952
2+680	20	2,680	9.669	9.624	9.951	9.951	11.451	11.951
2+700	10	2,700	11.480	11.480	9.550	9.551	11.051	11.551
2+750	50	2,750	11.316	11.806	9.268	9.550	11.050	11.550
2+800	50	2,800	11.467	11.532	9.499	9.549	11.049	11.549
2+850	50	2,850	11.180	11.614	9.490	9.548	11.048	11.548
2+900	50	2,900	11.116	11.213	9.371	9.547	11.047	11.547
2+950	50	2,950	11.081	11.177	9.392	9.546	11.046	11.546
3+000	50	3,000	10.951	11.528	9.345	9.545	11.045	11.545

## LEGEND

- DESIGNED CANAL BANK
- DESIGNED WATER SURFACE
- DESIGNED CANAL BED
- EXISTING LEFT BANK
- EXISTING RIGHT BANK
- EXISTING CANAL BED

BXC : BOX CULVERT  
 T.O. : TURNOUT  
 C.S. : CHECK STRUCTURE



CANAL NAME	Q (m <sup>3</sup> /s)	V (m/s)	Gradient (1/i)	B (m)	h (m)	m	H (m)	n	
								Bottom	Slope
CANAL-3	2.327 - 2.305	0.194	73,000	5.00	1.50	1.5	2.00	0.025	0.017
CANAL-4	2.266 - 2.218	0.216	56,500	4.00	1.50	1.5	2.00	0.025	0.017
CANAL-5	2.148 - 2.104	0.205	62,500	4.00	1.50	1.5	2.00	0.025	0.017

THE KINGDOM OF CAMBODIA

THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM

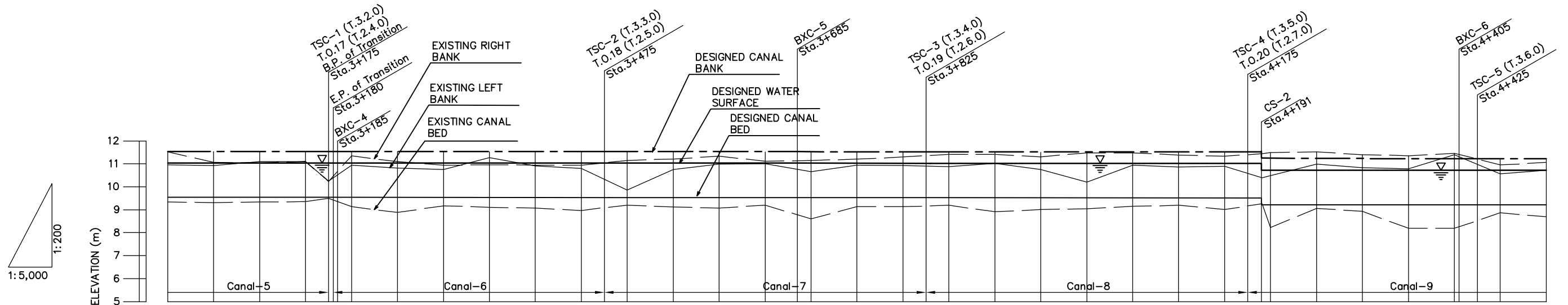
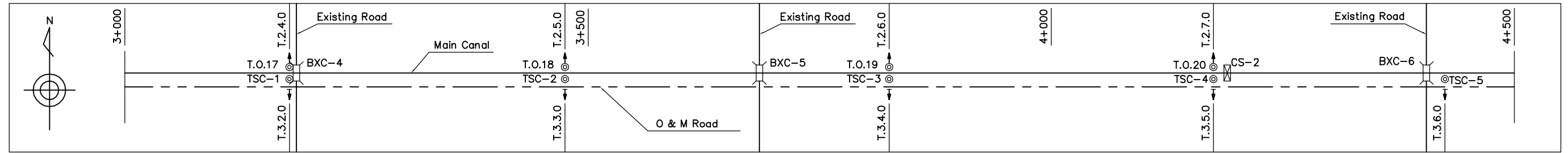
TITLE OF DRAWING

灌溉施設  
 幹線水路平面縦断面 (2/4)

DATE \_\_\_\_\_ DRAWING NO. 4-2

NIPPON KOEI CO., LTD., JAPAN

# PLAN AND PROFILE OF MAIN CANAL (3/4)

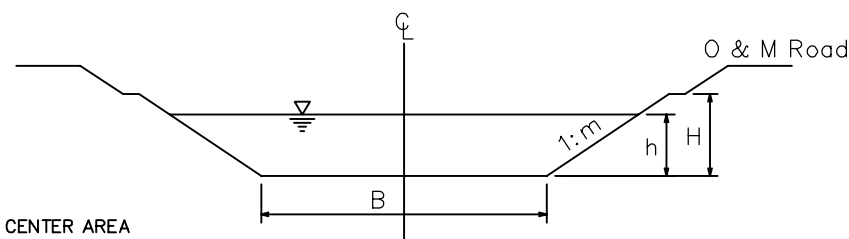


STATION NO.	DISTANCE	ACCUMULATED DISTANCE	EXISTING			DESIGN		
			CANAL BED ELEVATION	RIGHT BANK ELEVATION	LEFT BANK ELEVATION	CANAL BED ELEVATION	WATER SURFACE ELEVATION	TOP ELEVATION OF CONCRETE BLOCK LINING
3+000	50	3,000	9.345	11.528	10.951	9.545	11.045	11.545
3+050	50	3,050	9.310	11.072	10.926	9.544	11.044	11.544
3+100	50	3,100	9.337	11.037	11.098	9.543	11.043	11.543
3+150	50	3,150	9.355	11.102	11.104	9.542	11.042	11.542
3+175	25	3,175	9.494	10.237	10.252	9.542	11.042	11.542
3+180	5	3,180	9.541	11.041	11.041	9.541	11.041	11.541
3+185	5	3,185	9.541	11.041	11.041	9.541	11.041	11.541
3+200	15	3,200	9.140	11.346	10.950	9.541	11.041	11.541
3+250	50	3,250	8.879	11.096	10.820	9.540	11.040	11.540
3+300	50	3,300	9.176	10.936	10.762	9.539	11.039	11.539
3+350	50	3,350	9.102	10.964	11.272	9.538	11.038	11.538
3+400	50	3,400	9.069	10.941	10.909	9.537	11.037	11.537
3+450	50	3,450	8.971	10.939	10.800	9.536	11.036	11.536
3+475	25	3,475	9.208	11.154	9.856	9.536	11.036	11.536
3+500	25	3,500	9.122	11.209	10.749	9.535	11.035	11.535
3+550	50	3,550	9.071	11.341	10.983	9.534	11.034	11.534
3+600	50	3,600	9.205	11.111	10.998	9.533	11.033	11.533
3+650	50	3,650	8.599	11.152	10.958	9.533	11.033	11.533
3+685	35	3,685	9.055	11.203	10.946	9.532	11.032	11.532
3+700	15	3,700	9.137	11.305	10.919	9.531	11.031	11.531
3+750	50	3,750	9.194	11.410	10.875	9.531	11.031	11.531
3+800	50	3,800	8.915	11.419	11.025	9.530	11.030	11.530
3+825	25	3,825	9.012	11.303	10.757	9.529	11.029	11.529
3+850	25	3,850	9.043	11.479	10.209	9.528	11.028	11.528
3+900	50	3,900	9.145	11.481	10.936	9.528	11.028	11.528
3+950	50	3,950	9.197	11.385	10.868	9.527	11.027	11.527
4+000	50	4,000	9.014	11.337	10.890	9.526	11.026	11.526
4+050	50	4,050	8.222	11.494	10.481	9.526	11.026	11.526
4+100	50	4,100	9.058	11.525	10.987	9.525	11.025	11.525
4+150	50	4,150	8.936	11.400	10.831	9.525	11.025	11.525
4+175	25	4,175	8.190	11.457	11.405	9.525	11.025	11.525
4+191	16	4,191	8.222	11.494	10.481	9.525	11.025	11.525
4+200	9	4,200	9.058	11.525	10.987	9.525	11.025	11.525
4+250	50	4,250	8.936	11.400	10.831	9.524	11.024	11.524
4+300	50	4,300	8.190	11.358	10.789	9.523	11.023	11.523
4+350	50	4,350	8.190	11.457	11.405	9.523	11.023	11.523
4+400	50	4,400	8.866	10.951	10.566	9.522	11.022	11.522
4+405	5	4,405	9.221	10.721	11.221	9.522	11.022	11.522
4+425	20	4,425	9.221	10.721	11.221	9.521	11.021	11.521
4+450	25	4,450	9.221	10.721	11.221	9.521	11.021	11.521
4+500	50	4,500	8.699	11.061	10.728	9.220	11.020	11.520

## LEGEND

- DESIGNED CANAL BANK
- DESIGNED WATER SURFACE
- DESIGNED CANAL BED
- EXISTING LEFT BANK
- EXISTING RIGHT BANK
- EXISTING CANAL BED

TSC : TURNOUT FOR TECHNICAL SERVICE CENTER AREA  
 T.O. : TURNOUT  
 C.S. : CHECK STRUCTURE



CANAL NAME	Q (m <sup>3</sup> /s)	V (m/s)	Gradient (1/i)	B (m)	h (m)	m	H (m)	n	
								Bottom	Slope
CANAL-5	2.148 - 2.104	0.205	62,500	4.00	1.50	1.5	2.00	0.025	0.017
CANAL-6	1.836	0.205	65,000	3.00	1.50	1.5	2.00	0.025	0.017
CANAL-7	1.771	0.198	70,000	3.00	1.50	1.5	2.00	0.025	0.017
CANAL-8	1.691	0.188	77,500	3.00	1.50	1.5	2.00	0.025	0.017
CANAL-9	1.588 - 1.560	0.177	87,000	3.00	1.50	1.5	2.00	0.025	0.017

THE KINGDOM OF CAMBODIA

THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM

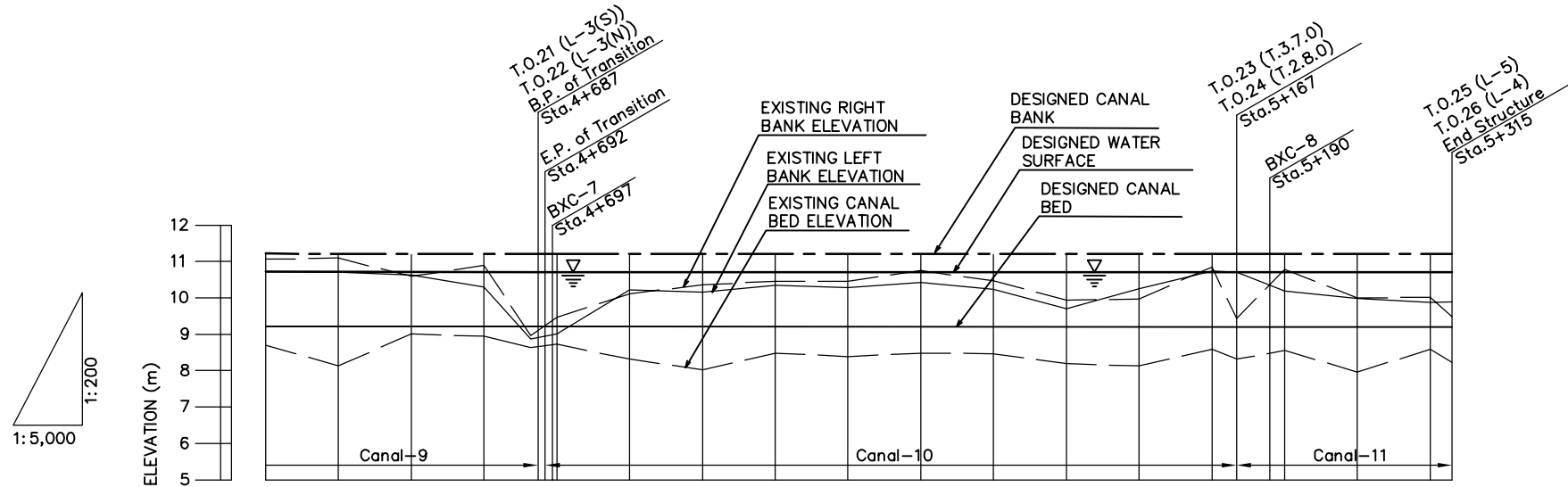
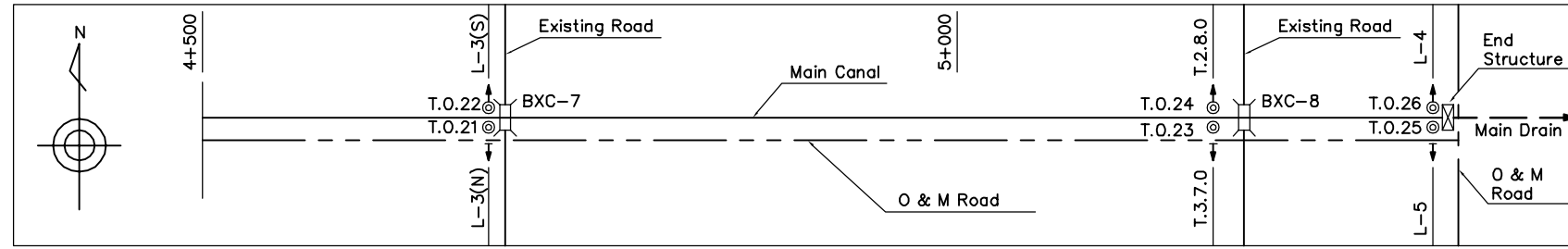
TITLE OF DRAWING

灌溉施設  
 幹線用水路平面縦断面圖 (3/4)

DATE: \_\_\_\_\_ DRAWING NO. 4-3

NIPPON KOEI CO., LTD., JAPAN

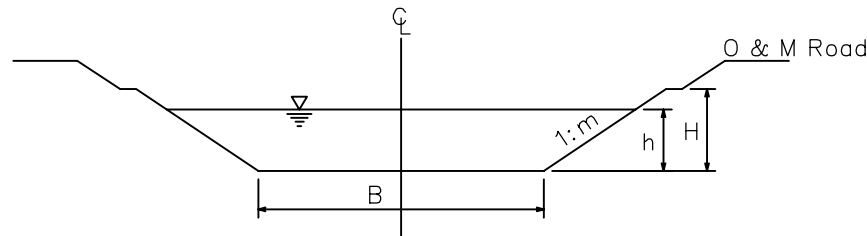
# PLAN AND PROFILE OF MAIN CANAL (4/4)



DESIGN	TOP ELEVATION OF CONCRETE BLOCK LINING	11.220	11.219	11.218	11.218	11.217	11.217	11.216	11.216	11.215	11.215	11.214	11.214	11.213	11.213	11.212	11.212	11.211	11.211	11.210	11.210
	WATER SURFACE ELEVATION	10.720	10.719	10.718	10.718	10.717	10.717	10.716	10.716	10.715	10.715	10.714	10.714	10.713	10.713	10.712	10.712	10.711	10.711	10.710	10.710
EXISTING	CANAL BED ELEVATION	9.220	9.219	9.218	9.218	9.217	9.217	9.216	9.216	9.215	9.215	9.214	9.214	9.213	9.213	9.212	9.212	9.211	9.211	9.210	9.210
	LEFT BANK ELEVATION	10.728	10.711	10.623	10.297	8.865	8.216	10.219	10.156	10.349	10.286	10.425	10.233	9.700	10.254	10.742	10.706	10.187	9.983	9.871	9.895
	RIGHT BANK ELEVATION	11.061	11.093	10.590	10.892	8.961	9.470	10.108	10.363	10.454	10.430	10.748	10.473	9.938	9.961	10.853	9.432	10.785	9.998	10.018	8.942
ACCUMULATED DISTANCE	CANAL BED ELEVATION	8.699	8.132	9.015	8.941	8.536	8.725	8.315	8.029	8.483	8.390	8.485	8.465	8.190	8.128	8.592	8.314	8.557	7.967	8.584	8.225
	DISTANCE	4,500	50	50	50	37	5	50	50	50	50	50	50	50	50	50	17	23	50	50	15
STATION NO.		4+500	4+550	4+600	4+650	4+687	4+692	4+700	4+750	4+800	4+850	4+900	4+950	5+000	5+050	5+100	5+150	5+190	5+250	5+300	5+315

- LEGEND**
- DESIGNED CANAL BANK
  - DESIGNED WATER SURFACE
  - DESIGNED CANAL BED
  - EXISTING LEFT BANK
  - EXISTING RIGHT BANK
  - EXISTING CANAL BED

T.O. : TURNOUT



CANAL NAME	Q (m <sup>3</sup> /s)	V (m/s)	Gradient (1/i)	B (m)	h (m)	m	H (m)	n	
								Bottom	Slope
CANAL-9	1.588 - 1.560	0.177	87,000	3.00	1.50	1.5	2.00	0.025	0.017
CANAL-10	1.199	0.160	110,000	2.00	1.50	1.5	2.00	0.025	0.017
CANAL-11	1.034	0.139	145,000	2.00	1.50	1.5	2.00	0.025	0.017

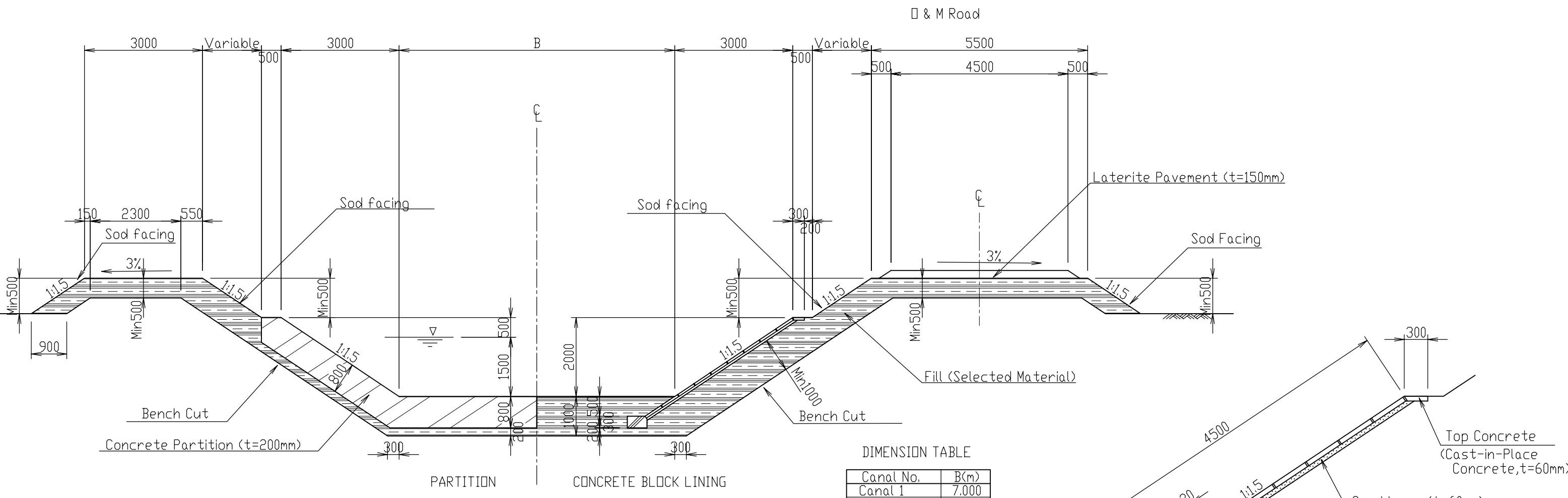
THE KINGDOM OF CAMBODIA

THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM

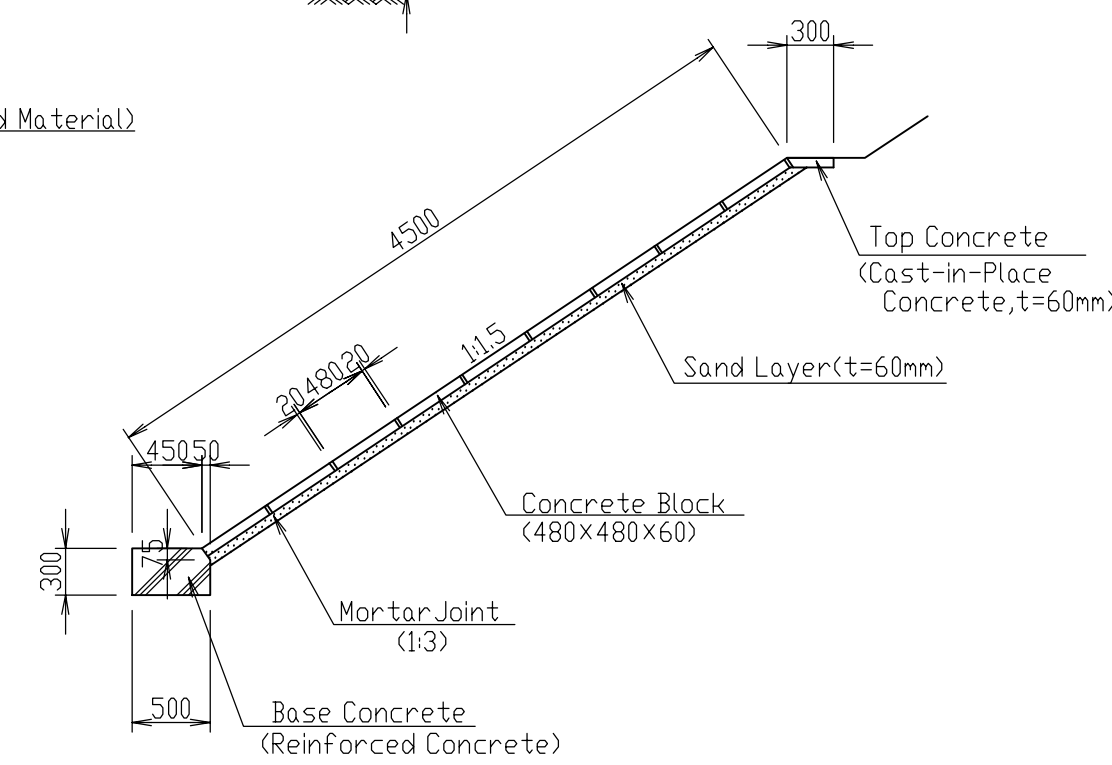
TITLE OF DRAWING  
灌漑施設  
幹線水路平面縦断面図 (4/4)

DATE	DRAWING NO.	4-4
NIPPON KOEI CO., LTD., JAPAN		

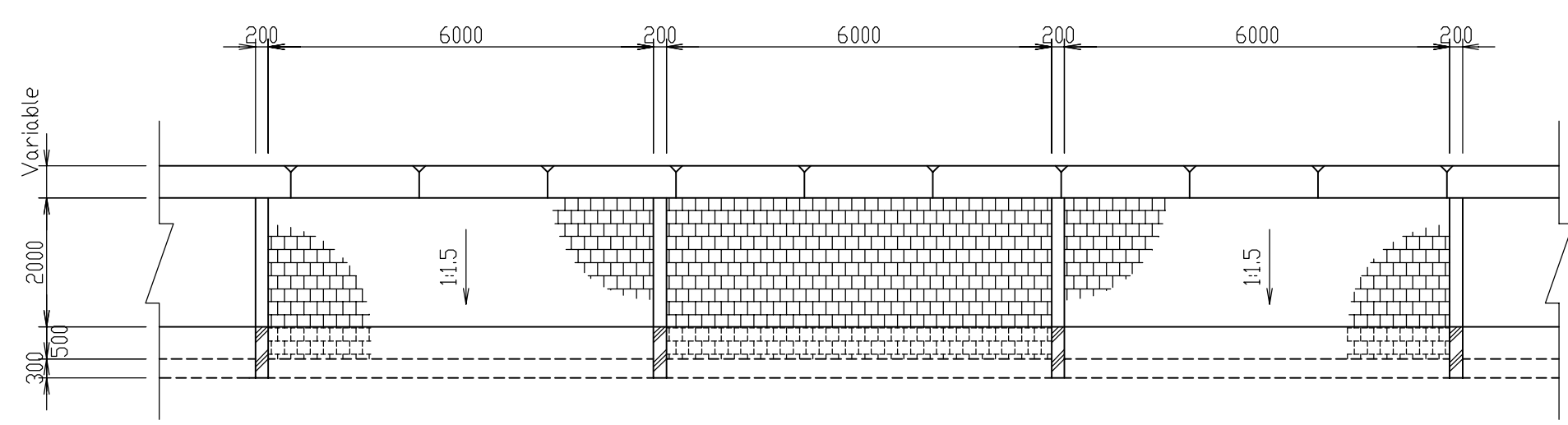
# TYPICAL CROSS SECTION OF MAIN CANAL (TYPE A)



TYPICAL CROSS SECTION S=1:100



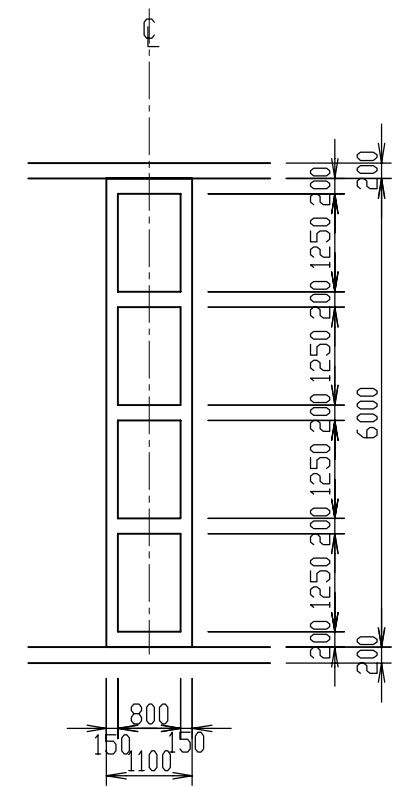
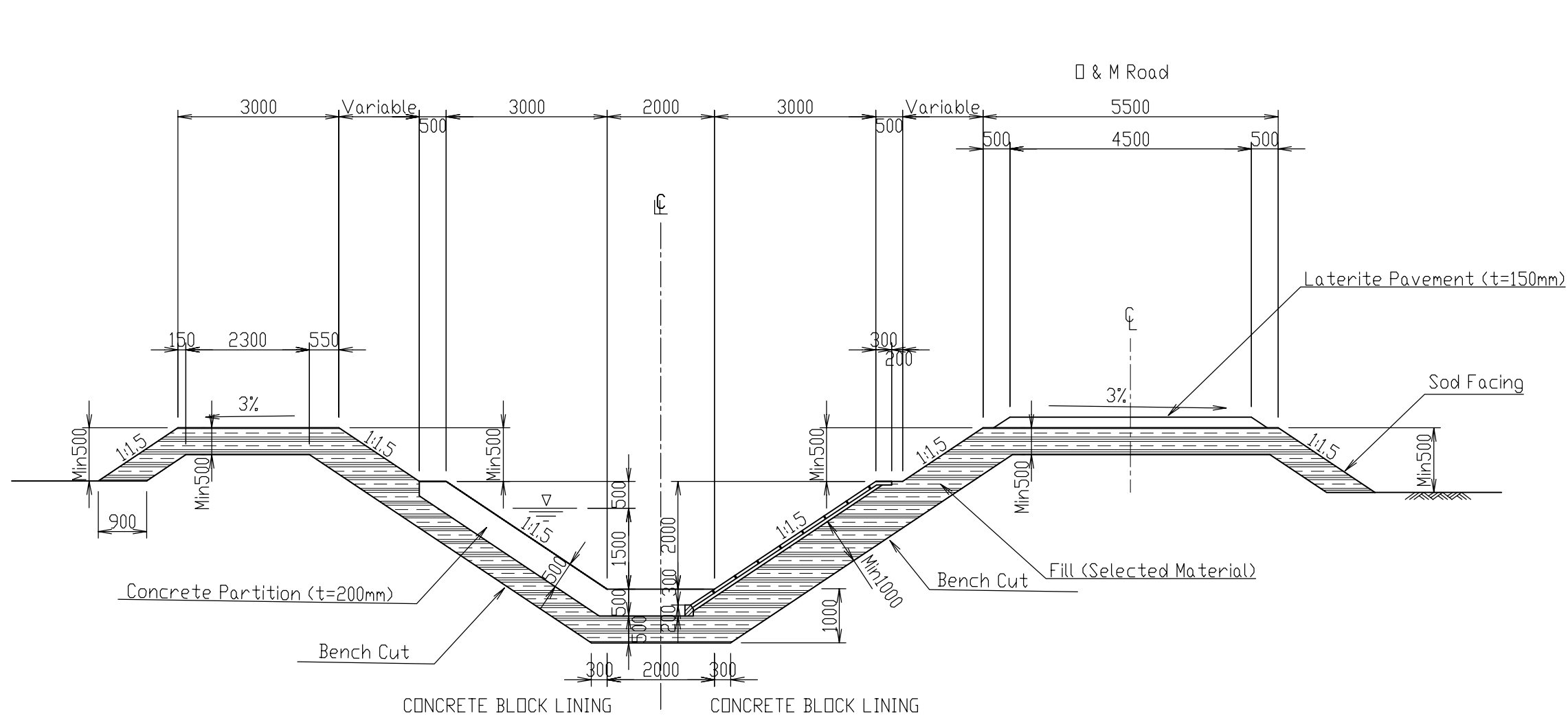
DETAIL OF CONCRETE BLOCK LINING S=1:50



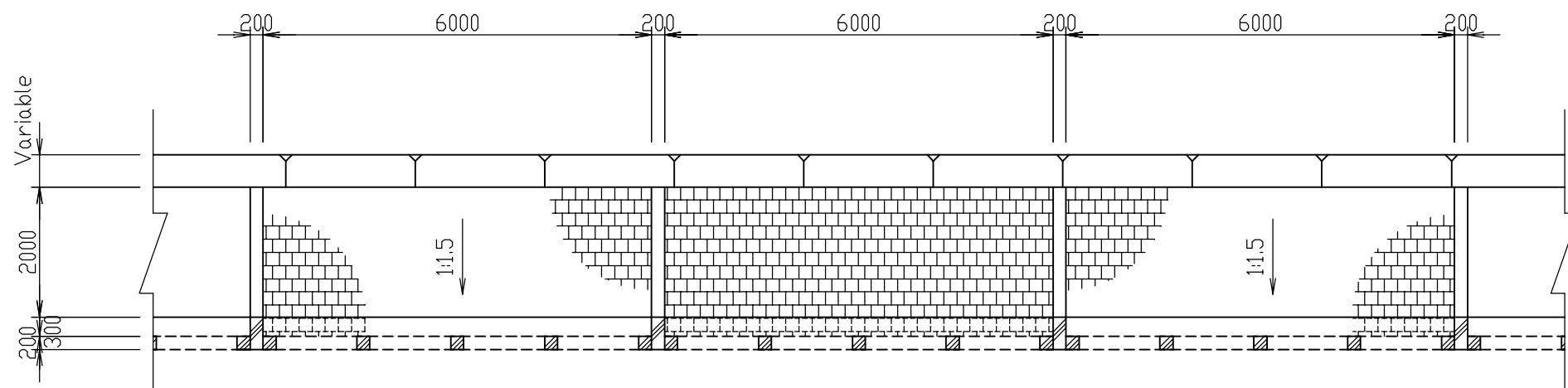
PROFILE S=1:100

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 幹線水路標準断面図(タイプA)		
DATE	DRAWING NO.	4-5
NIPPON KOEI CO., LTD., JAPAN		

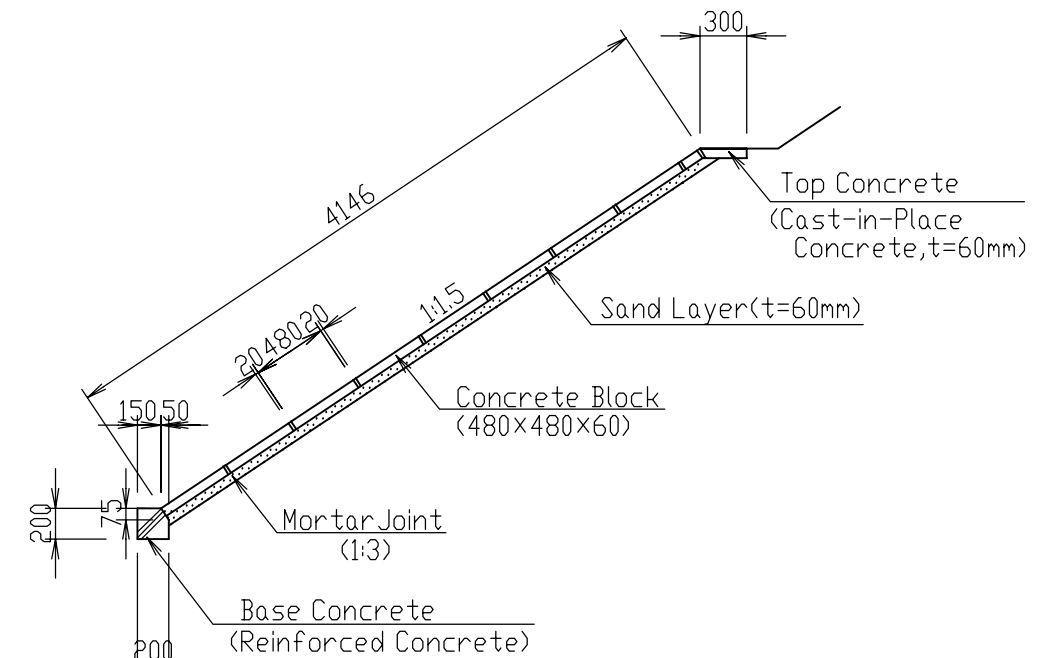
# TYPICAL CROSS SECTION OF MAIN CANAL (TYPE B)



TYPICAL CROSS SECTION S=1:100  
(Canal 10-11)



PROFILE S=1:100

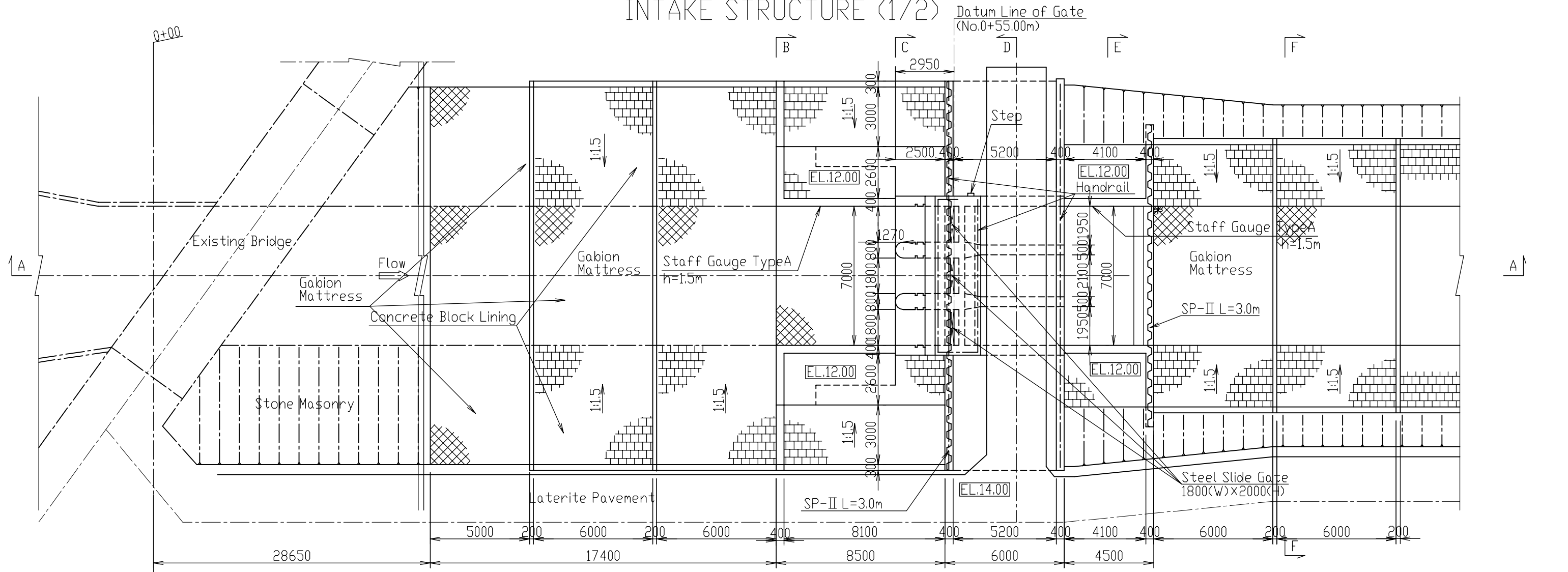


DETAIL OF CONCRETE BLOCK LINING S=1:50

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 幹線用水路標準断面図(タイプB)		
DATE	DRAWING NO.	4-6
NIPPON KOEI CO., LTD., JAPAN		

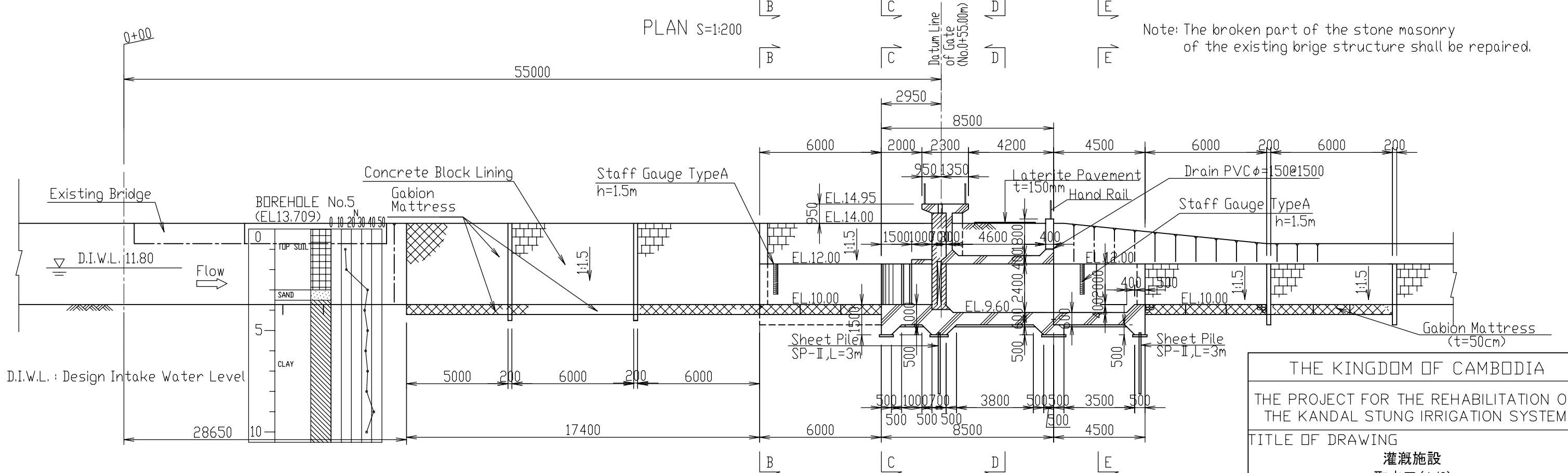


# INTAKE STRUCTURE (1/2)



PLAN S=1:200

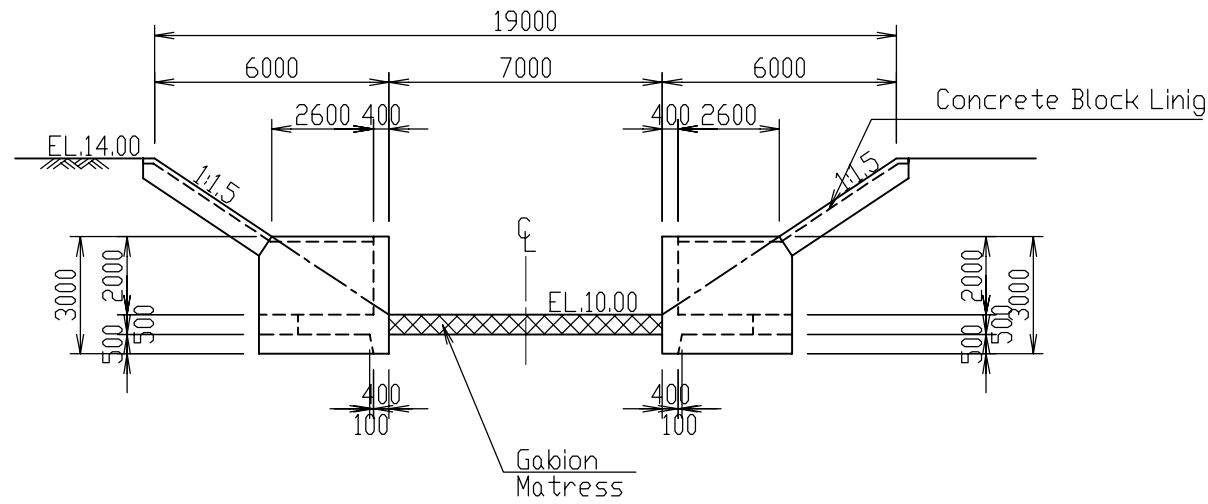
Note: The broken part of the stone masonry of the existing bridge structure shall be repaired.



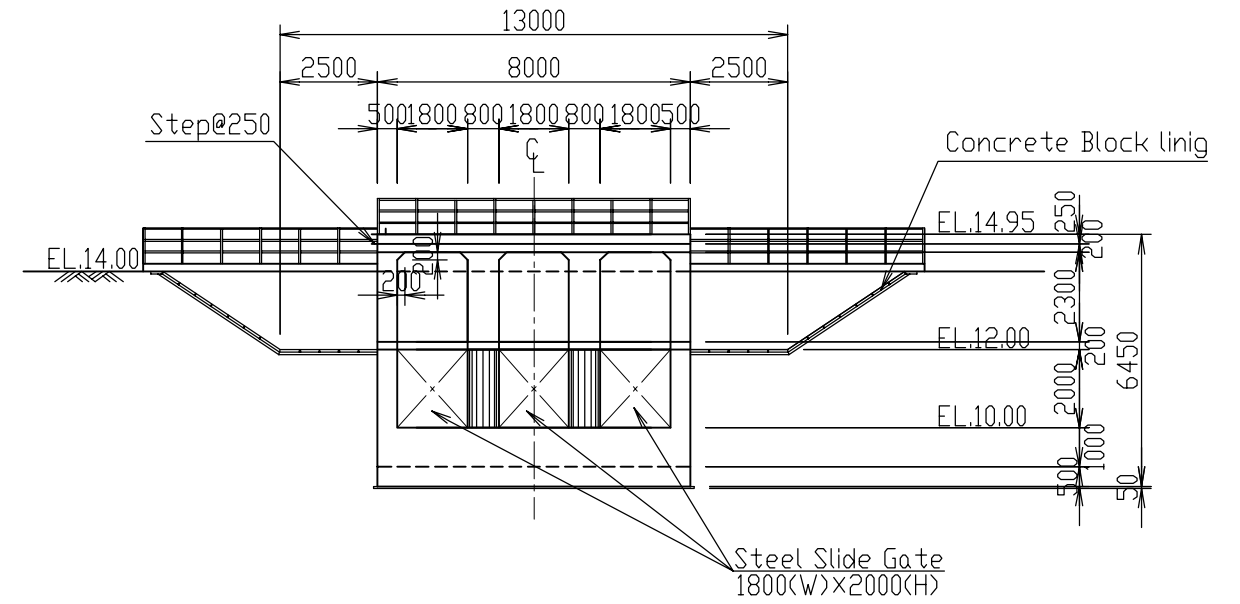
SECTION A-A S=1:200

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
灌漑施設 取水工 (1/2)		
DATE	DRAWING NO.	4-7
NIPPON KOEI CO., LTD., JAPAN		

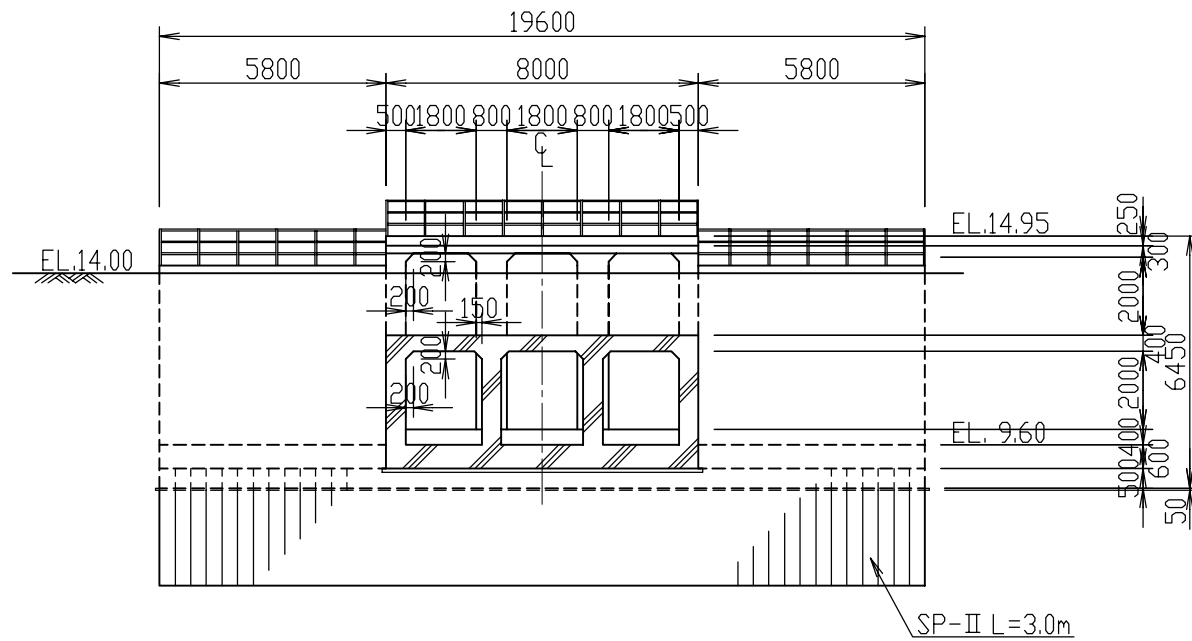
# INTAKE STRUCTURE (2/2)



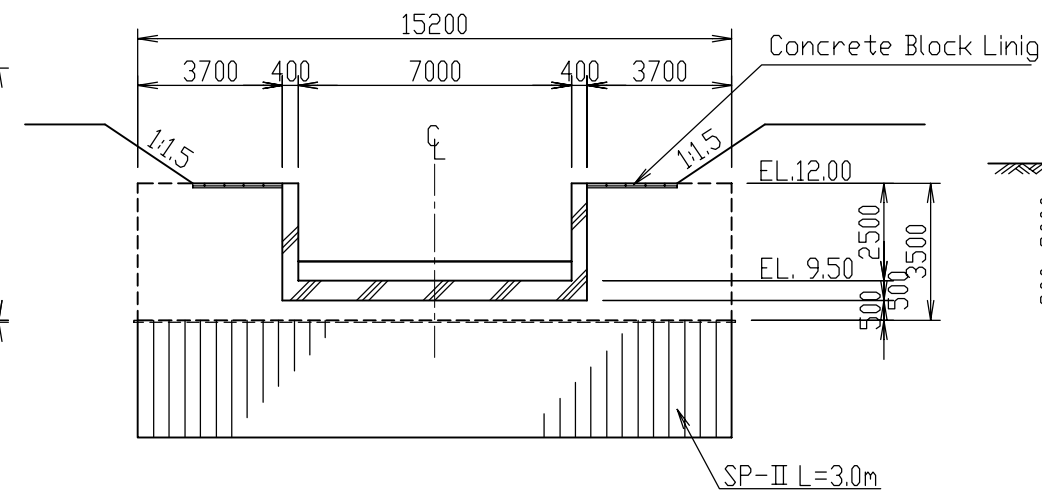
SECTION B-B S=1:200



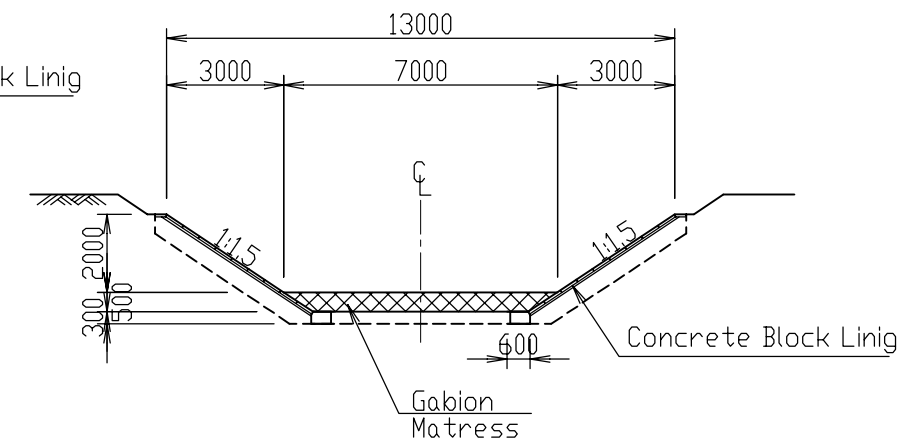
SECTION C-C S=1:200



SECTION D-D S=1:200



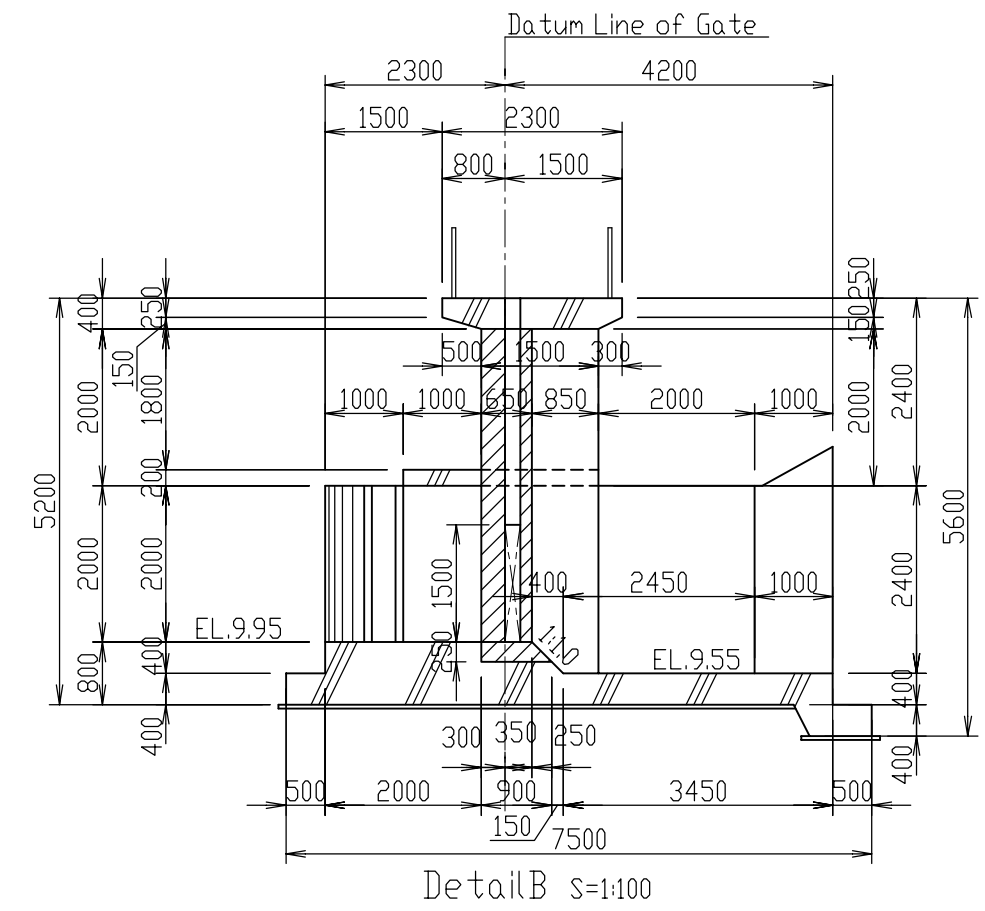
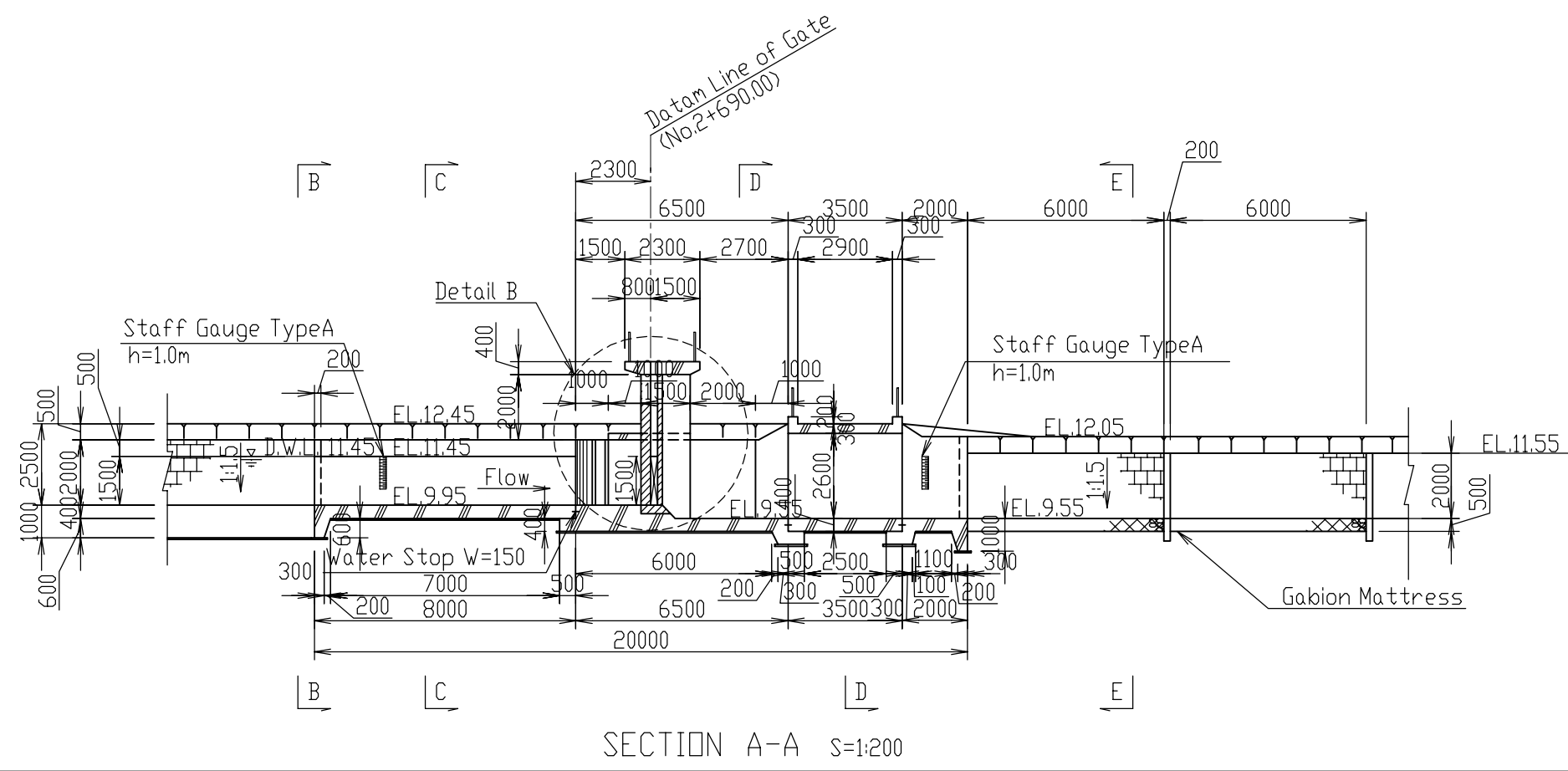
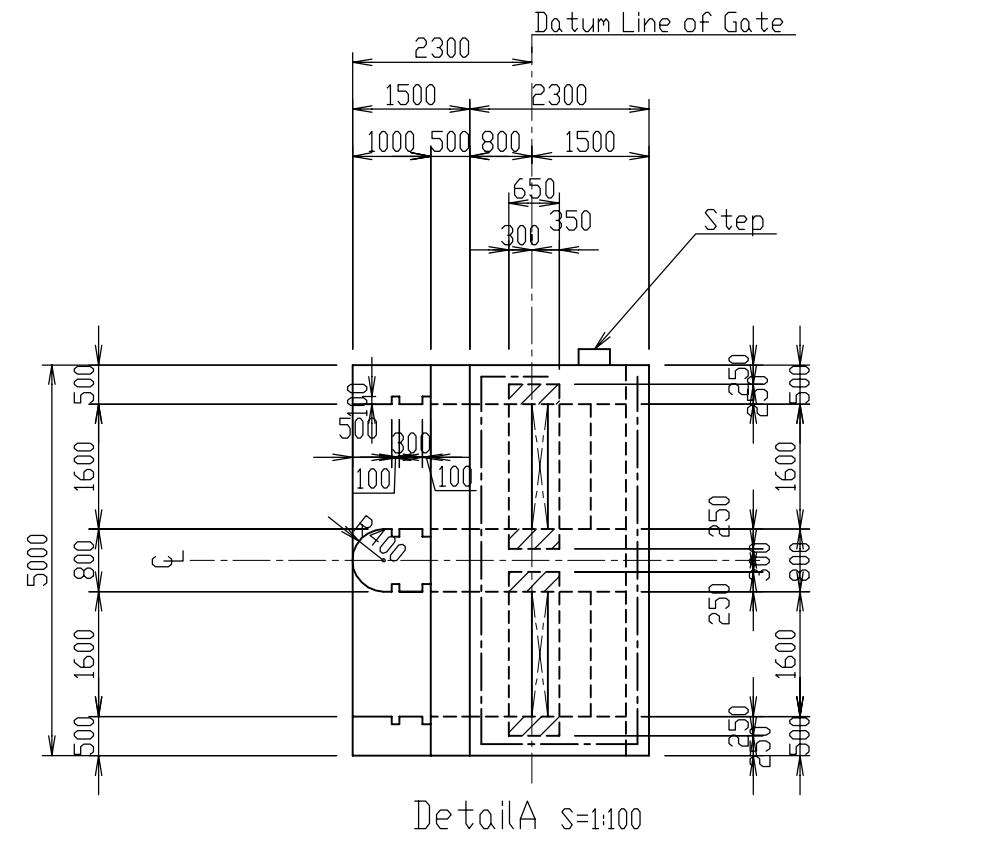
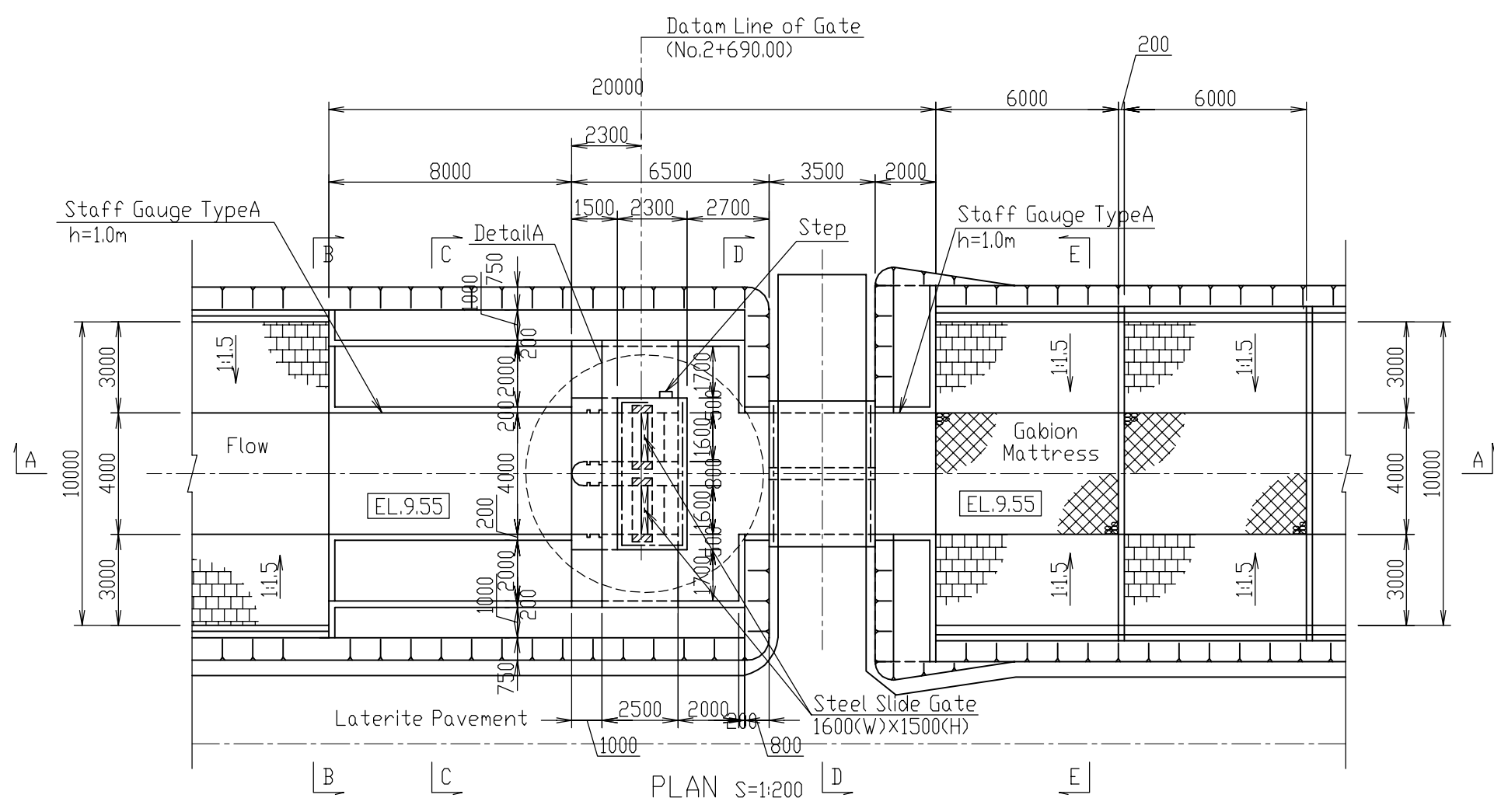
SECTION E-E S=1:200



SECTION F-F S=1:200

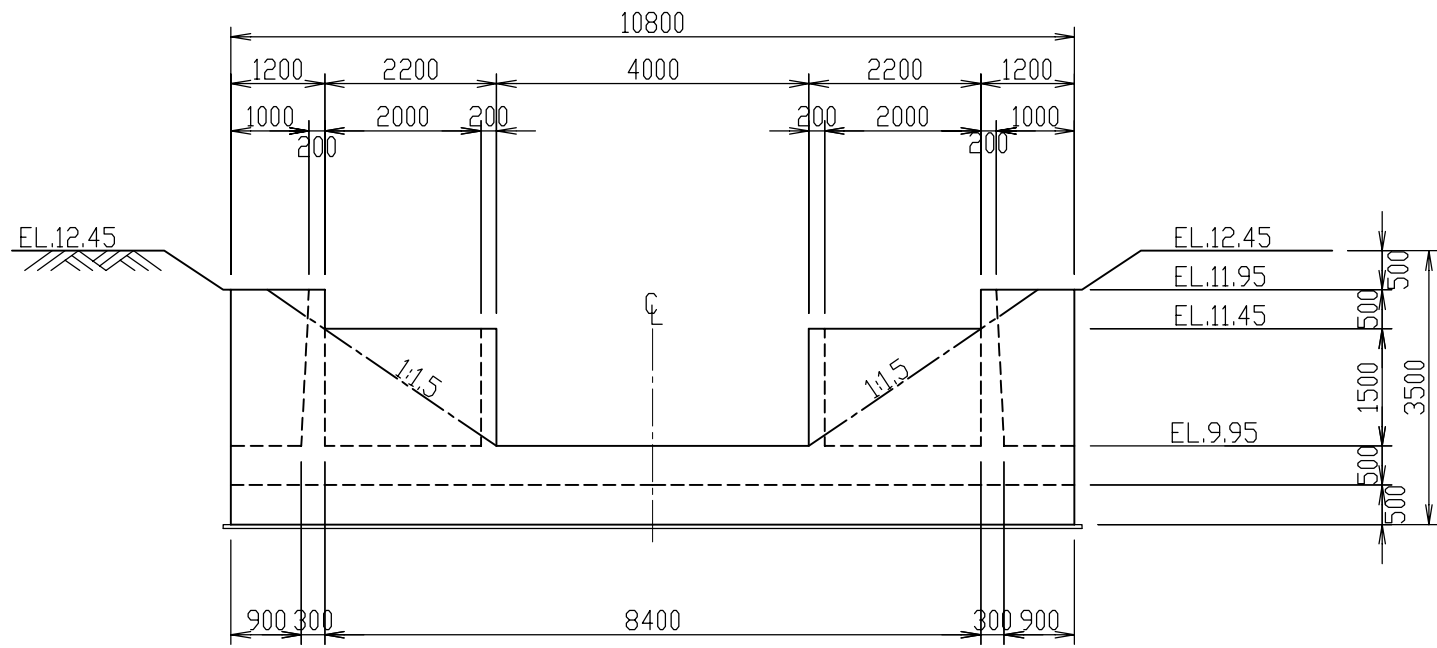
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 取水工 (2/2)		
DATE	DRAWING NO.	4-8
NIPPON KOEI CO., LTD., JAPAN		

# CHECK STRUCTURE-1 (1/2)

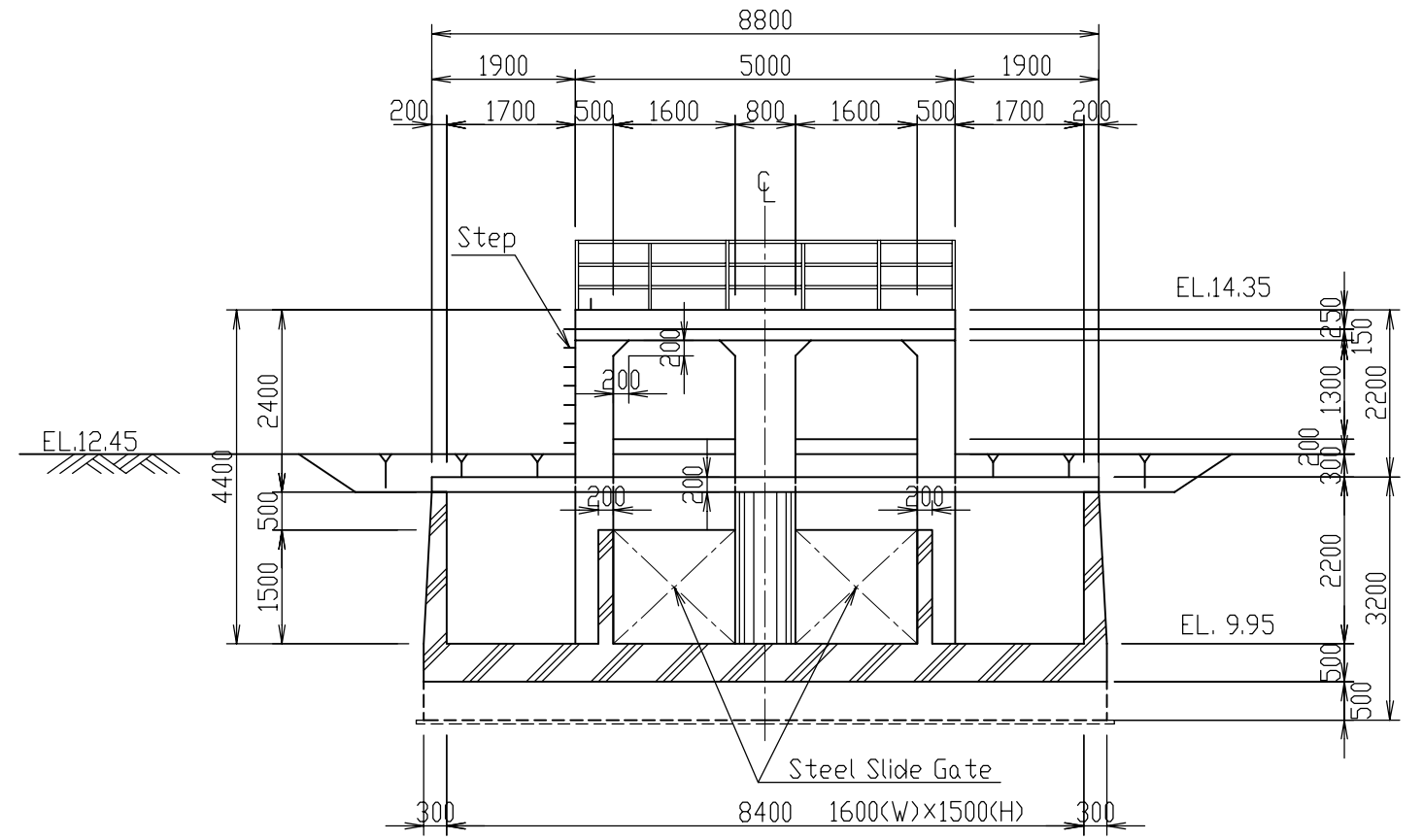


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 水位調整水門-1(1/2)		
DATE	DRAWING NO.	4-9
NIPPON KOEI CO., LTD., JAPAN		

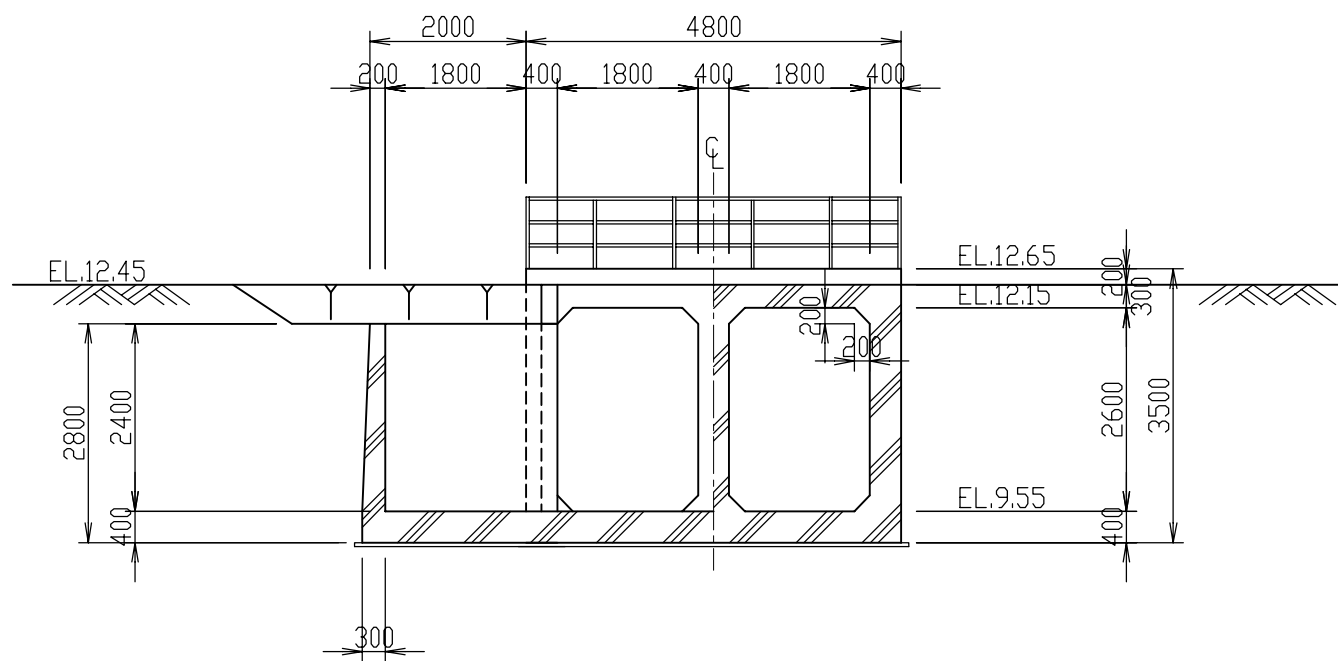
# CHECK STRUCTURE-1 (2/2)



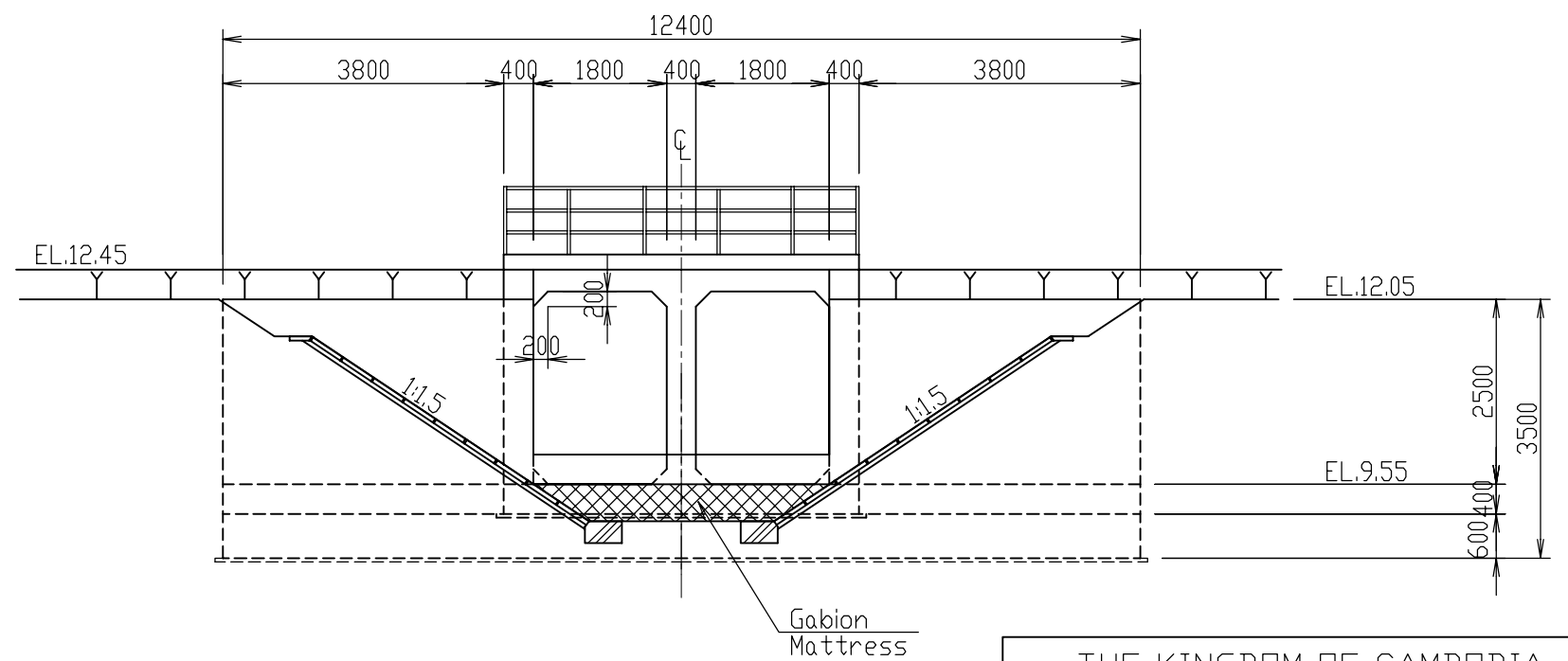
SECTION B-B S=1:100



SECTION C-C S=1:100



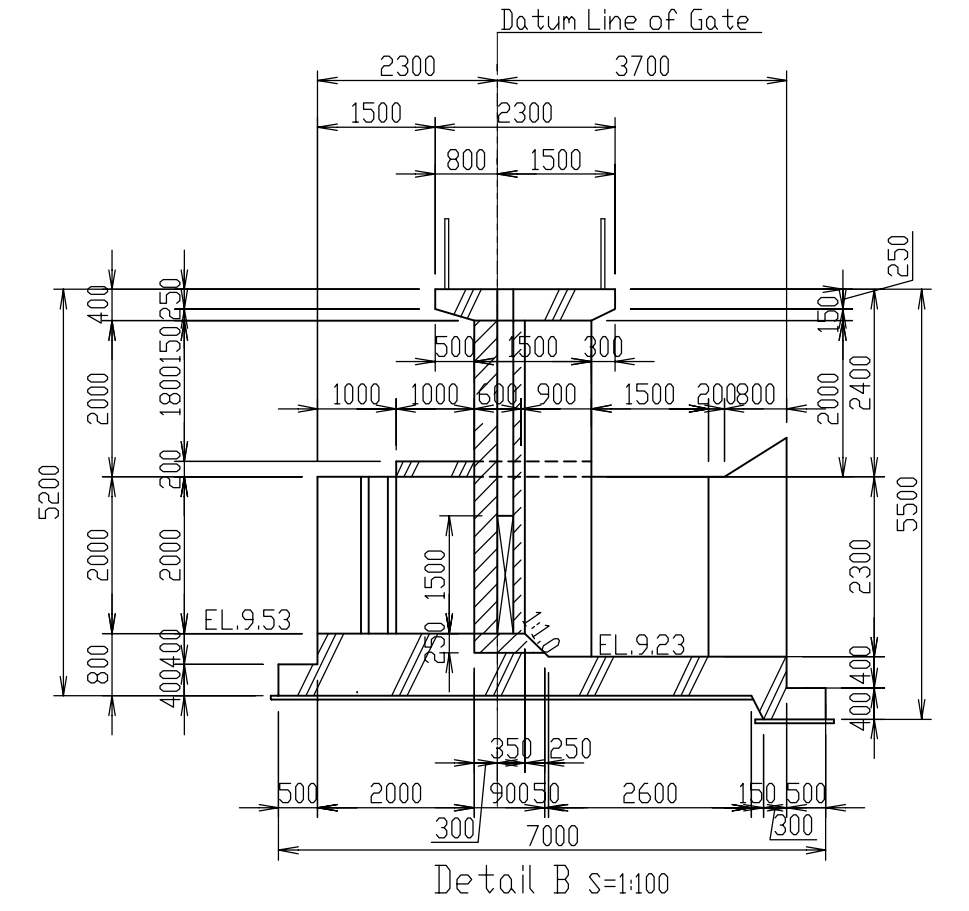
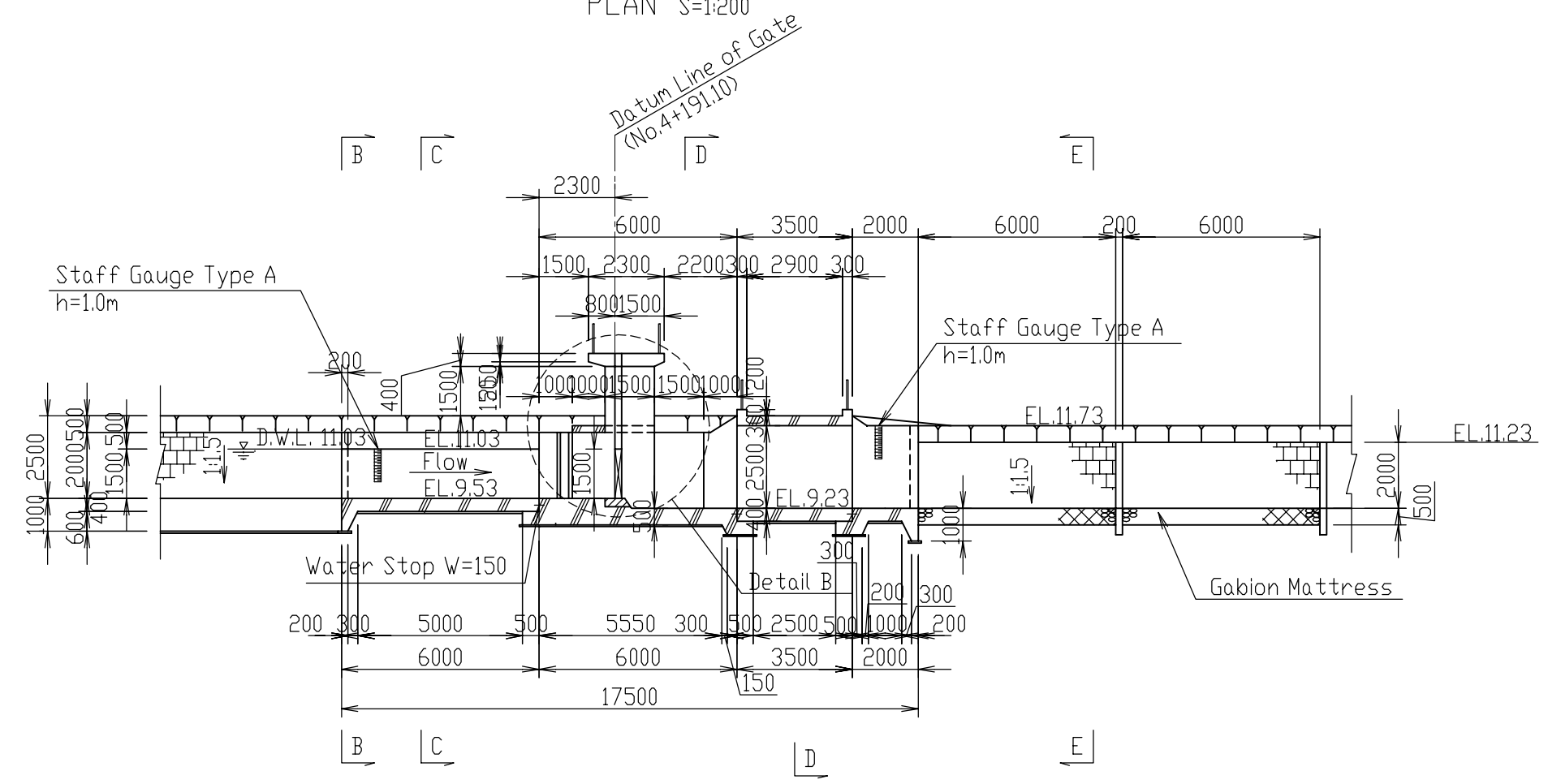
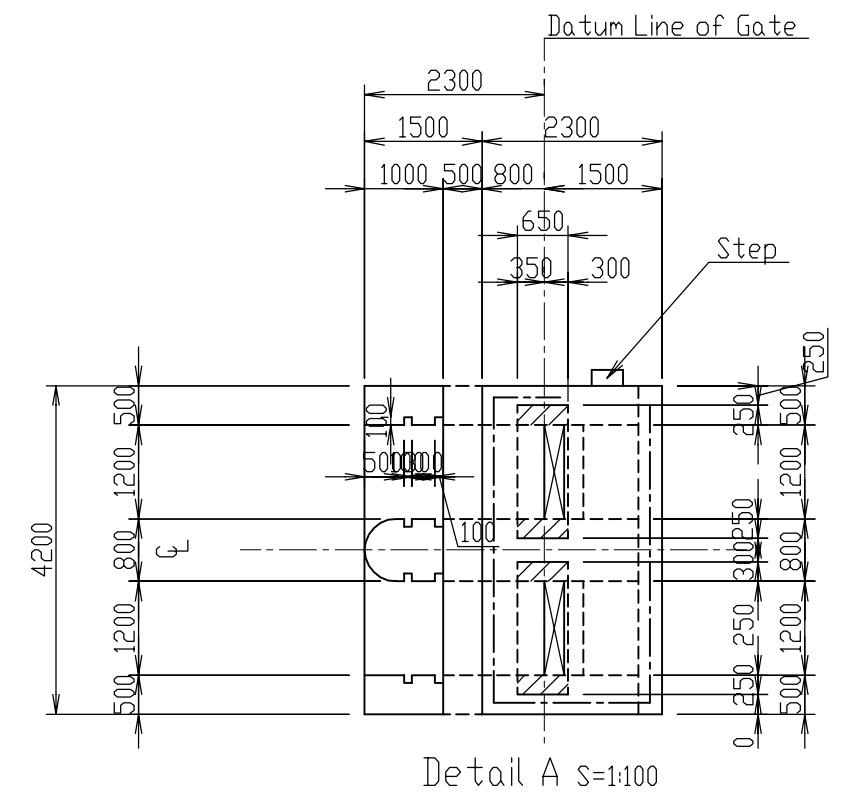
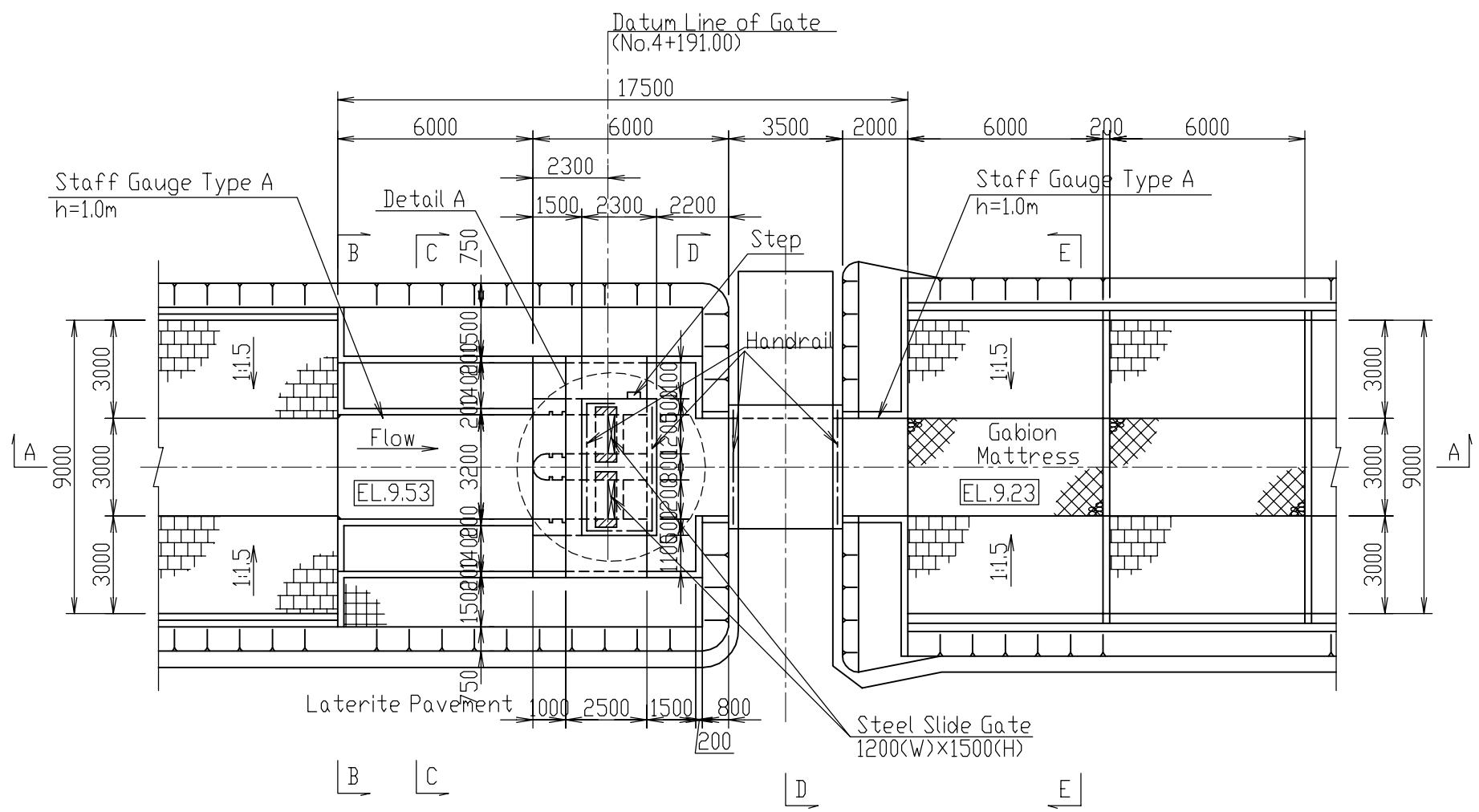
SECTION D-D S=1:100



SECTION E-E S=1:100

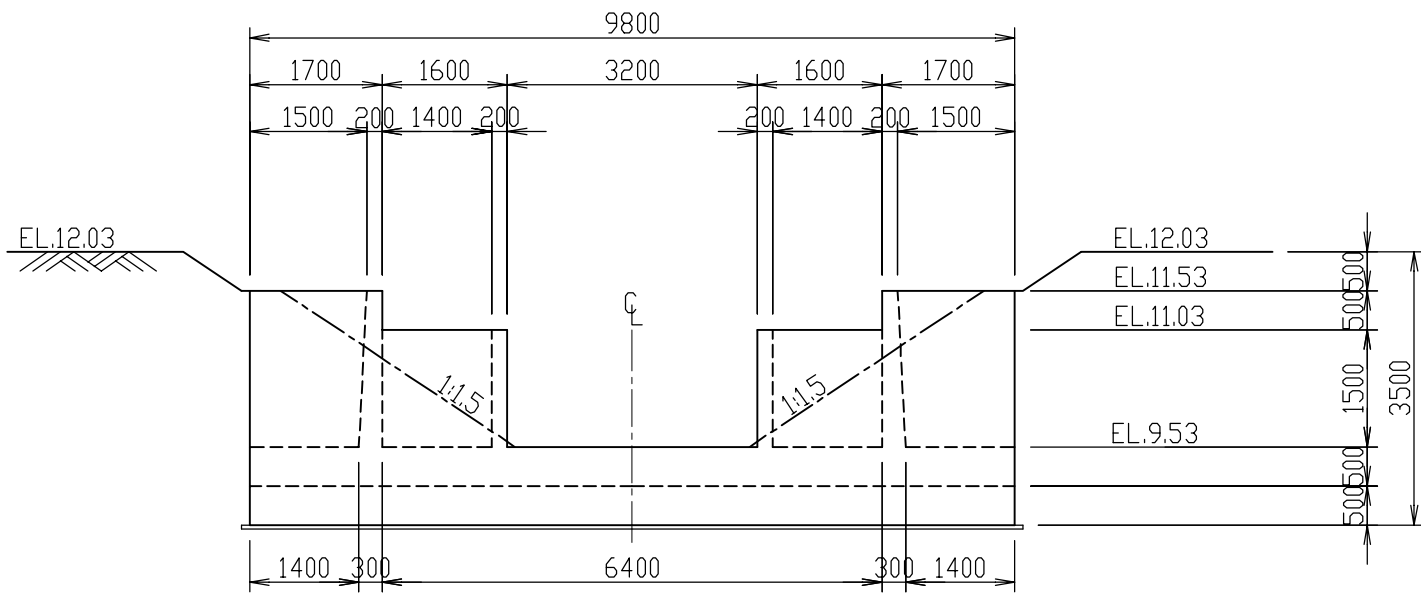
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 水位調整水門-1(2/2)		
DATE	DRAWING NO.	4-10
NIPPON KOEI CO., LTD., JAPAN		

# CHECK STRUCTURE-2 (1/2)

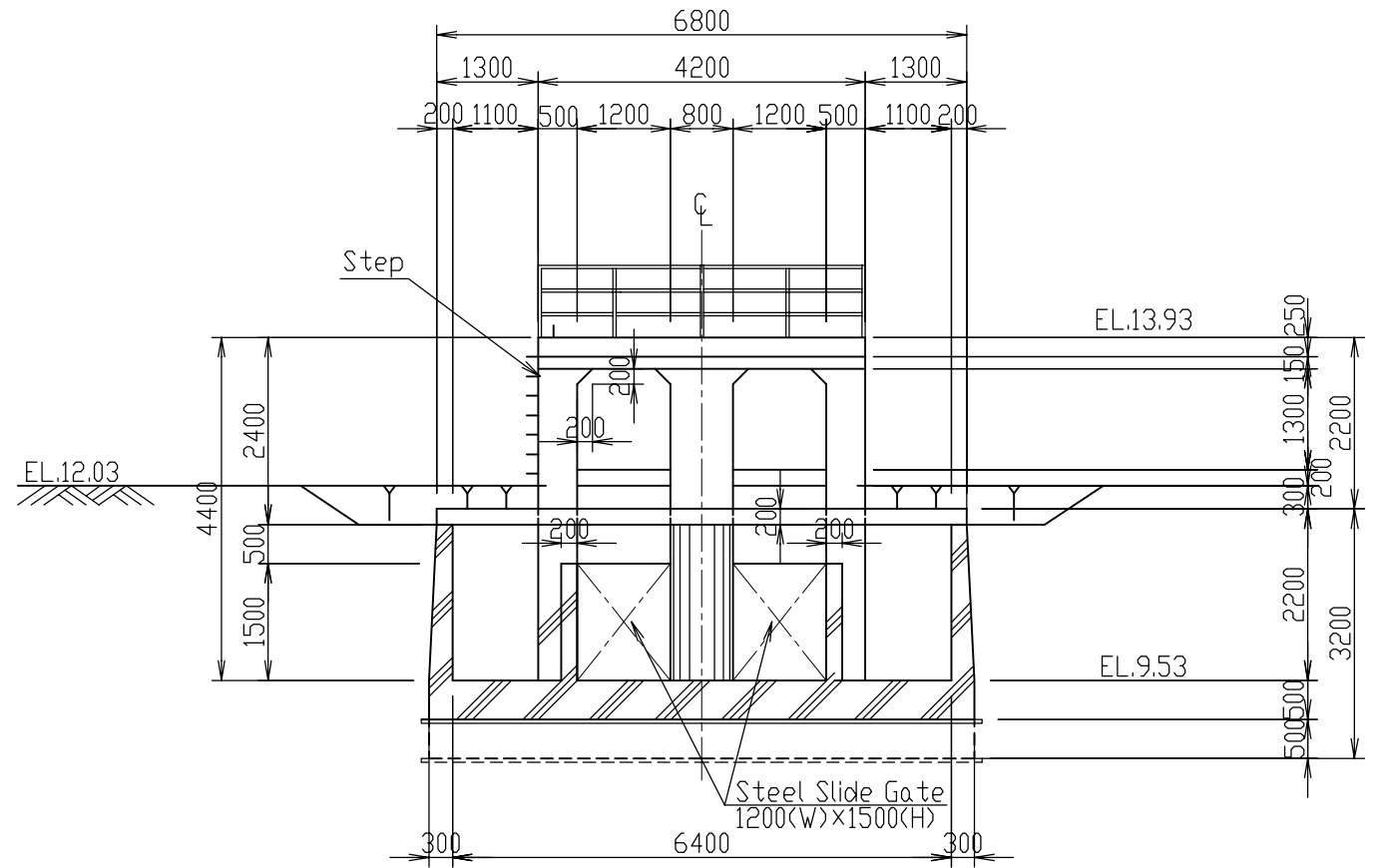


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
灌溉施設		
水位調整水門-2(1/2)		
DATE	DRAWING NO.	4-11
NIPPON KOEI CO., LTD., JAPAN		

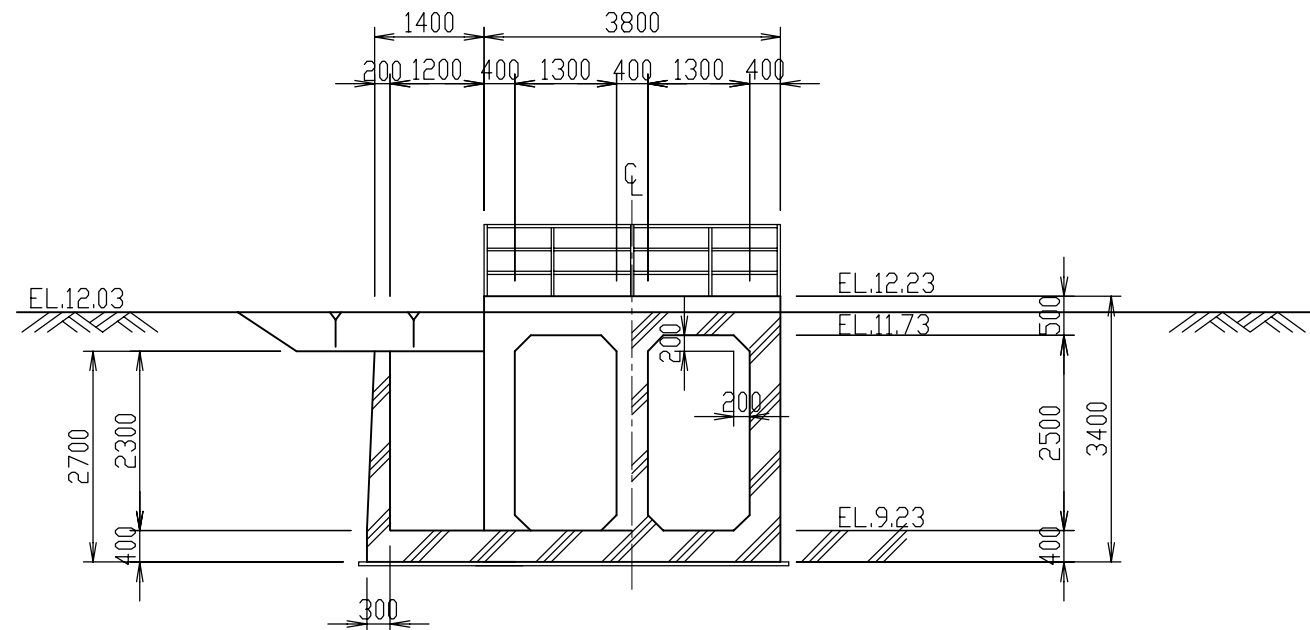
# CHECK STRUCTURE-2 (2/2)



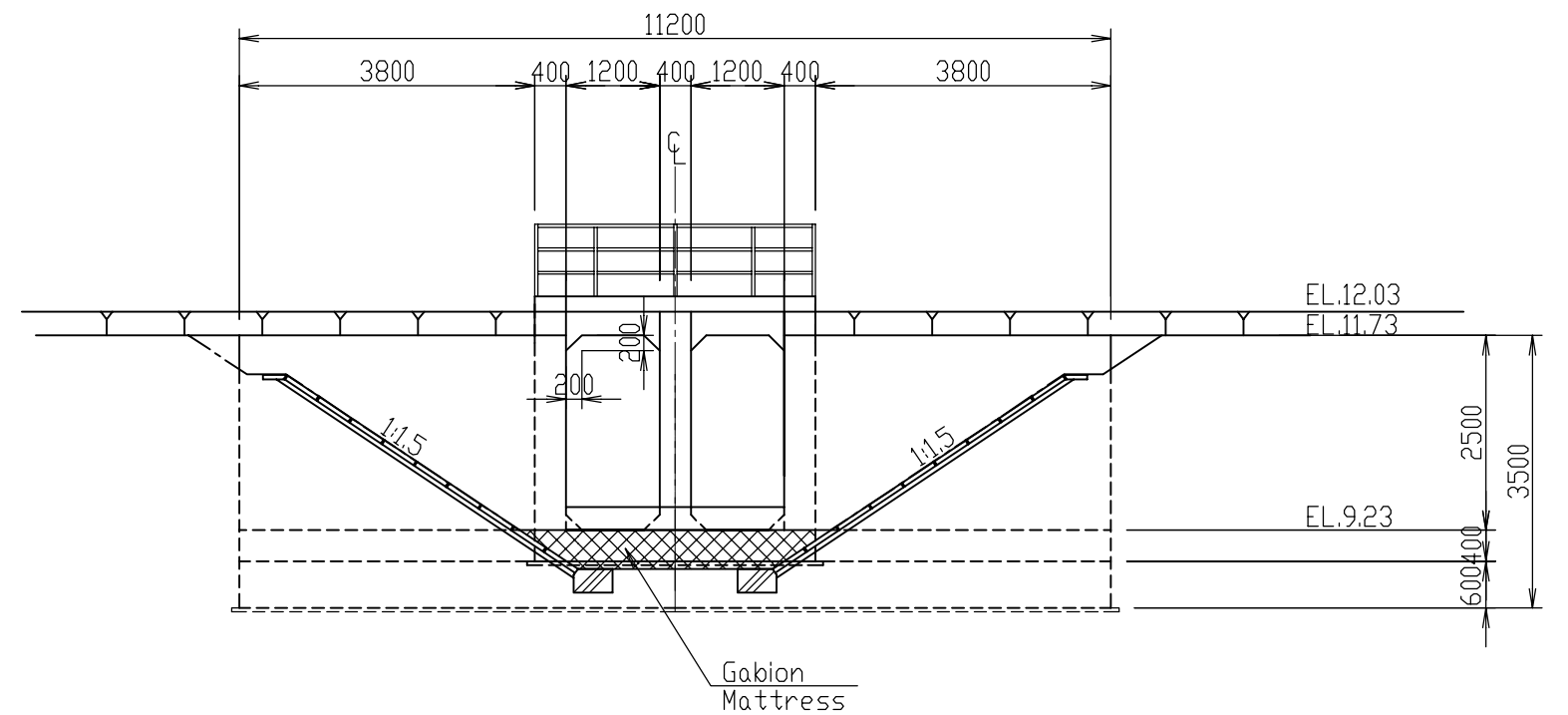
SECTION B-B S=1:100



SECTION C-C S=1:100



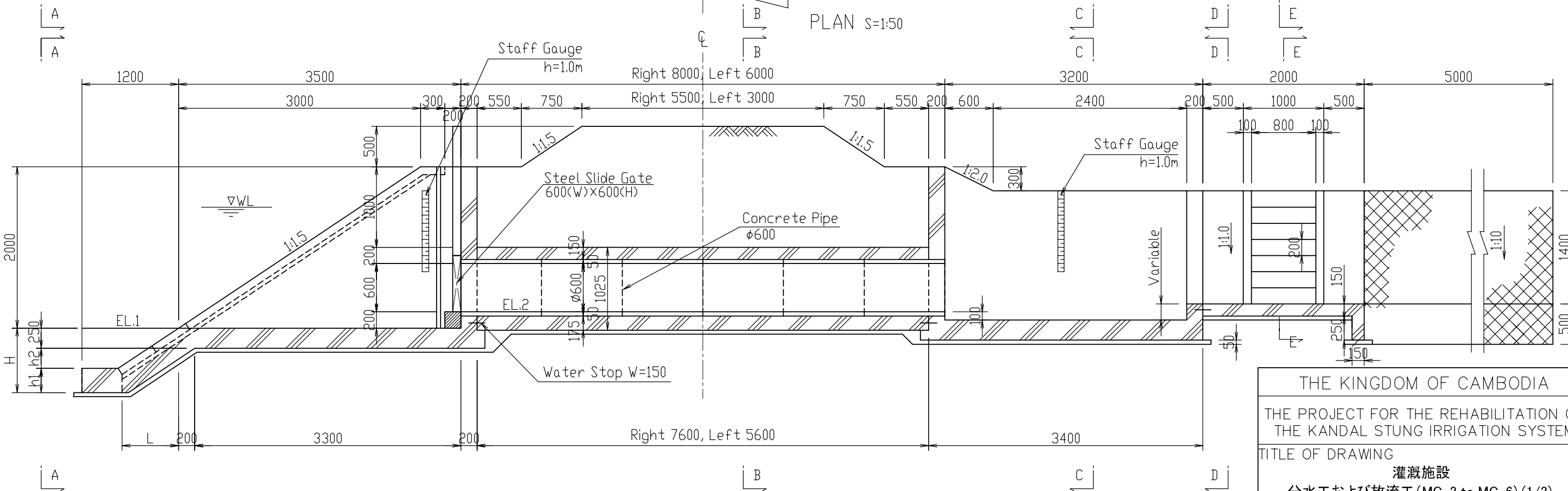
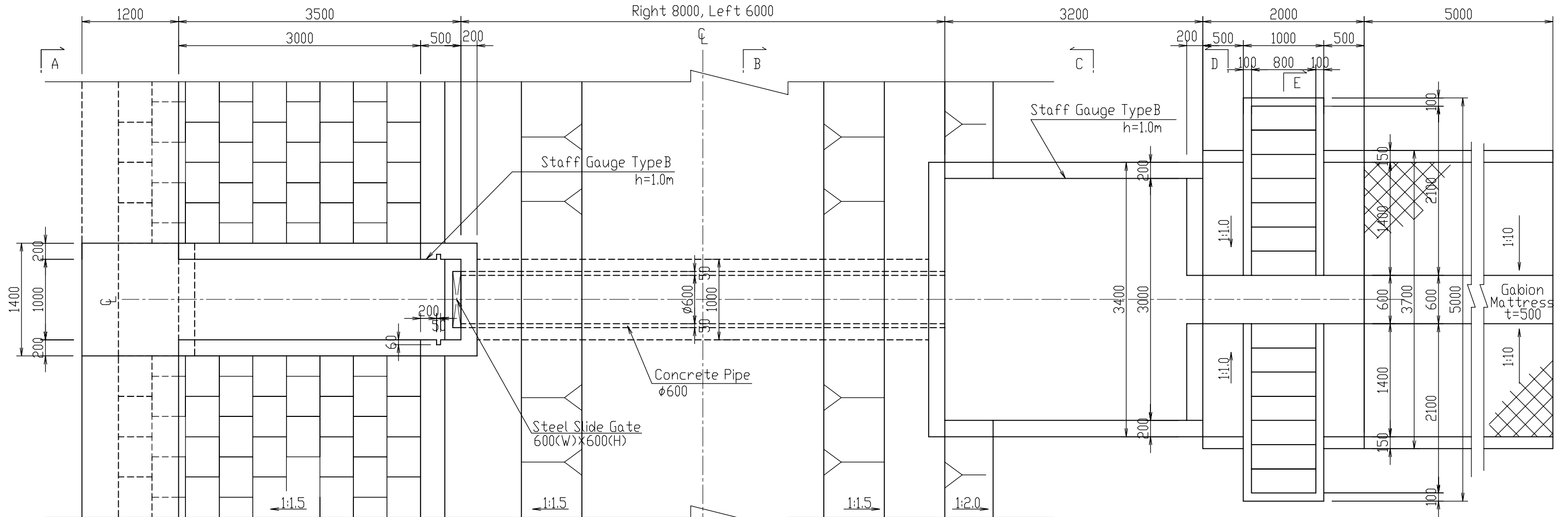
SECTION D-D S=1:100



SECTION E-E S=1:100

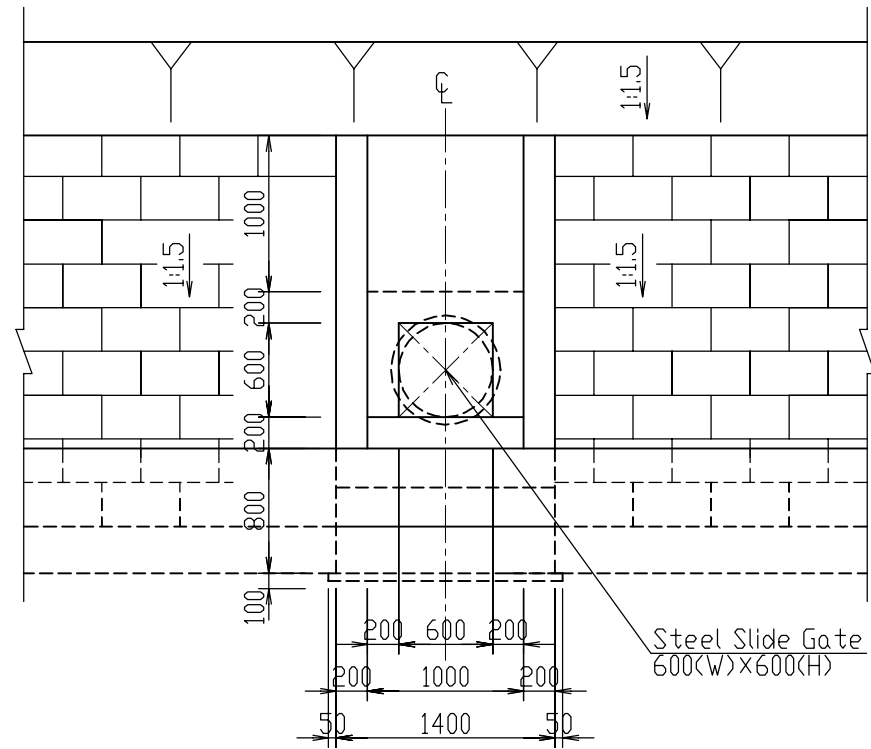
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
灌漑施設		
水位調整水門-2(2/2)		
DATE	DRAWING NO.	4-12
NIPPON KOEI CO., LTD., JAPAN		

# TURNOUT, MAINTENANCE FLOW GATE (MG-3 to MG-6) (1/3)

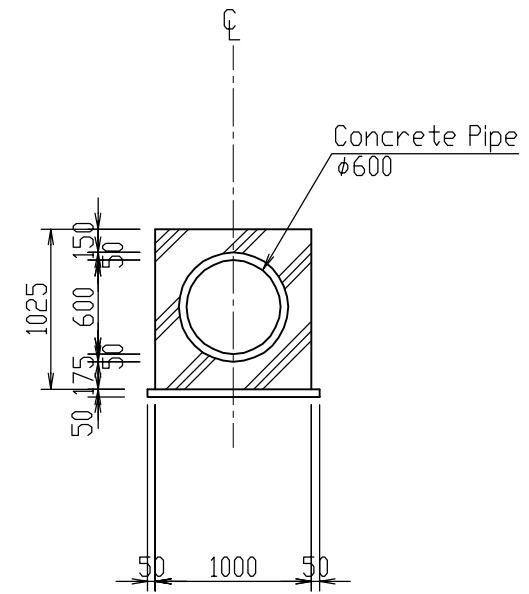


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 分水工および放流工 (MG-3 to MG-6) (1/3)		
DATE	DRAWING NO.	4-13
NIPPON KOEI CO., LTD., JAPAN		

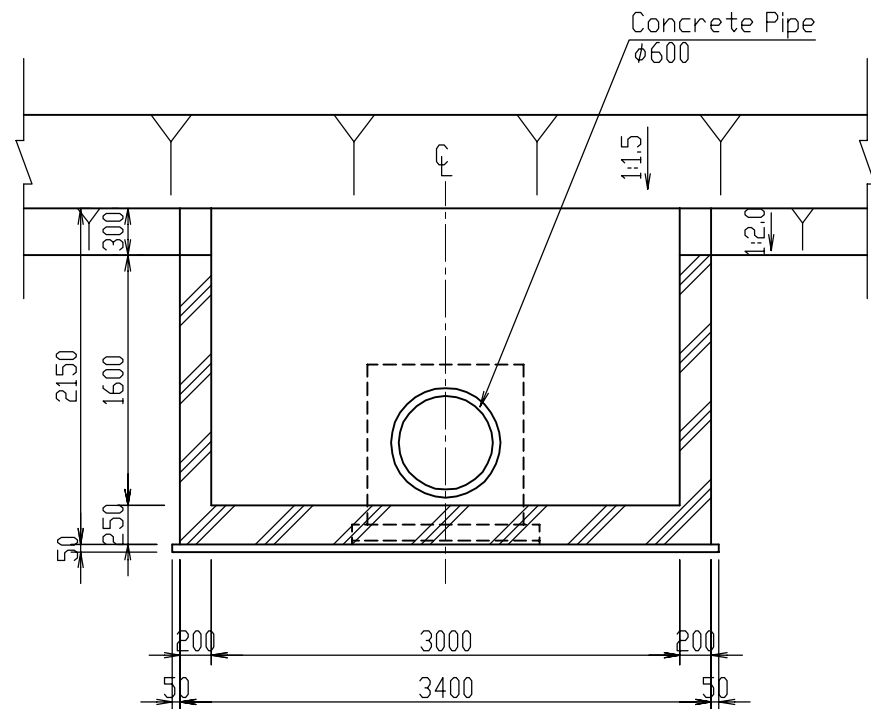
TURNOUT, MAINTENANCE FLOW GATE (MG-3 to MG-6) (2/3)



SECTION A-A S=1:50



SECTION B-B S=1:50

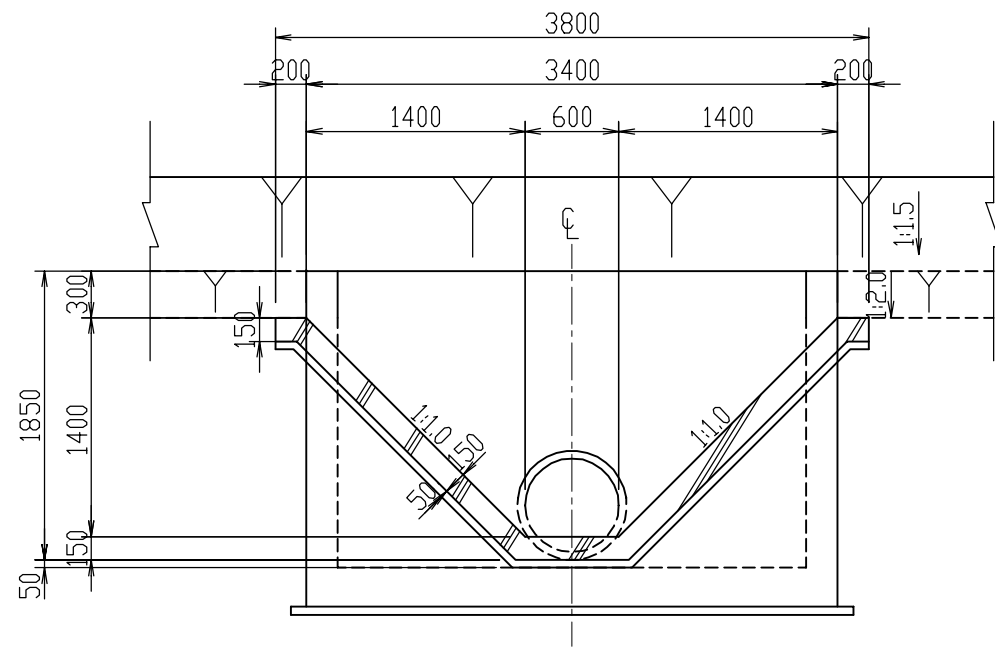


SECTION C-C S=1:50

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 分水工および放流工 (MG-3 to MG-6) (2/3)		
DATE	DRAWING NO.	4-14
NIPPON KOEI CO., LTD., JAPAN		



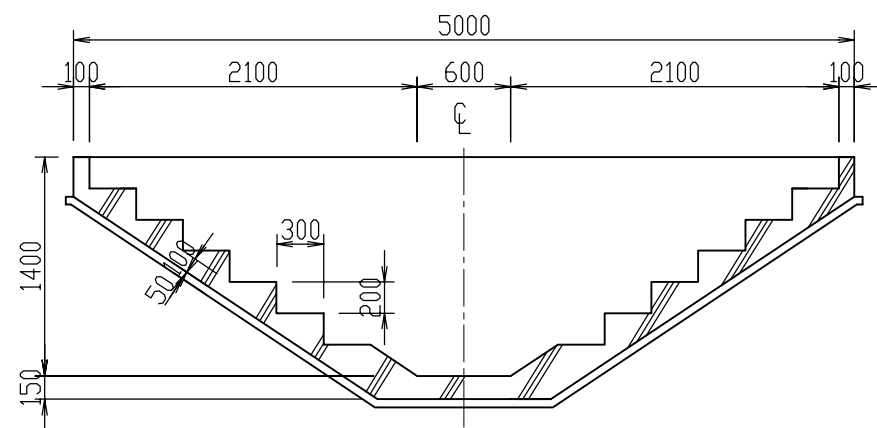
# TURNOUT, MAINTENANCE FLOW GATE (MG-3 to MG-6) (3/3)



SECTION D-D S=1:50

DIMENSION TABLE (TURNOUT)

No.	Station No.	Side	Discharge (m <sup>3</sup> /s)	H (mm)	h1	h2	L	EL.1 (m)	EL.2 (m)	Remarks	
T.O.1	0+225	Right	0.330	800	300	250	700	9.997	10.197	L-1	
T.O.2	0+225	Left	0.021	800	300	250	700	9.997	10.197	T.1.1.0	
T.O.3	0+590	Right	0.011	800	300	250	700	9.991	10.191	T.1.2.0	
T.O.4	0+590	Left	0.011	800	300	250	700	9.991	10.191	T.1.3.0	
T.O.5	0+945	Right	0.006	800	300	250	700	9.985	10.185	T.1.4.0	
T.O.6	1+150	Right	0.020	800	300	250	700	9.980	10.180	T.1.5.0	
T.O.7	1+150	Left	0.004	800	300	250	700	9.980	10.180	T.1.6.0	
T.O.8	1+500	Right	0.022	800	300	250	700	9.974	10.174	T.1.7.0	
T.O.9	1+760	Right	0.035	800	300	250	700	9.969	10.169	T.1.8.0	
T.O.10	1+760	Left	0.004	800	300	250	700	9.969	10.169	T.1.9.0	
T.O.11	2+170	Right	0.014	800	300	250	700	9.961	10.161	T.3.1.0	
T.O.12	2+170	Left	0.034	800	300	250	700	9.961	10.161	T.2.1.0	
T.O.13	2+670	Right	0.043	800	300	250	700	9.952	10.152	T.3.1.1	
T.O.14	2+670	Left	0.027	800	300	250	700	9.952	10.152	T.2.2.0	
T.O.15	2+950	Right	0.020	800	300	250	700	9.546	9.746	T.3.1.2	
T.O.16	2+950	Left	0.024	800	300	250	700	9.546	9.746	T.2.3.0	
T.O.17	3+175	Left	0.034	800	300	250	700	9.542	9.742	T.2.4.0	
T.O.18	3+475	Left	0.029	800	300	250	700	9.536	9.736	T.2.5.0	
T.O.19	3+825	Left	0.046	800	300	250	700	9.531	9.731	T.2.6.0	
T.O.20	4+175	Left	0.071	800	300	250	700	9.526	9.726	T.2.7.0	
T.O.21	4+687	Right	0.297	See Drawing No.4-16,17 Turnout(T.O.21),Maintenance Flow Gate							L-3(S)
T.O.22	4+675	Left	0.064	800	300	250	700	9.218	9.418	L-3(N)	
T.O.23	5+165	Right	0.081	500	200	50	400	9.212	9.412	T.3.7.0	
T.O.24	5+165	Left	0.084	500	200	50	400	9.212	9.412	T.2.8.0	
T.O.25	5+315	Right	0.365	See Drawing No.4-20 to 24 End Structure							L-5
T.O.26	5+315	Left	0.373	See Drawing No.4-20 to 24 End Structure							L-4



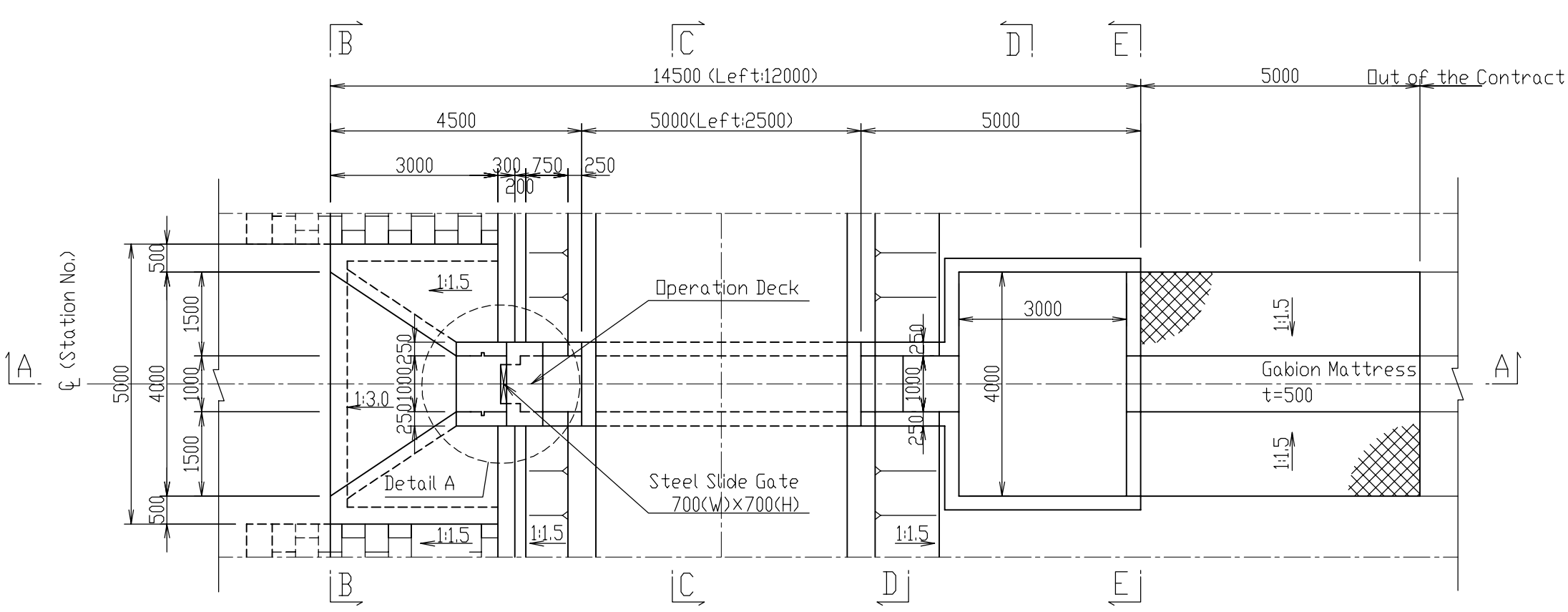
SECTION E-E S=1:50

DIMENSION TABLE (MAINTENANCE FLOW GATE)

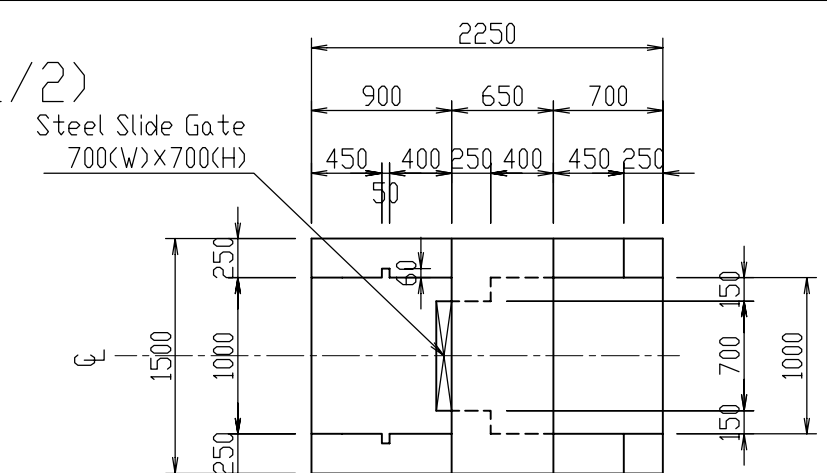
No.	Station No.	Side	EL.1 (m)	EL.2 (m)	Remarks
MG-1	0+850	Right	9.668	10.418	See Drawing No.4-16 Turnout(T.O.21),Maintenance Flow Gate
MG-2	0+850	Left	9.668	10.418	See Drawing No.4-16 Turnout(T.O.21),Maintenance Flow Gate
MG-3	1+100	Right	9.982	10.182	
MG-4	1+300	Right	9.977	10.177	
MG-5	1+300	Left	9.977	10.177	
MG-6	1+430	Right	9.975	10.175	

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
灌漑施設		
分水工および放流工 (MG-3 to MG-6) (3/3)		
DATE	DRAWING NO.	4-15
NIPPON KOEI CO., LTD., JAPAN		

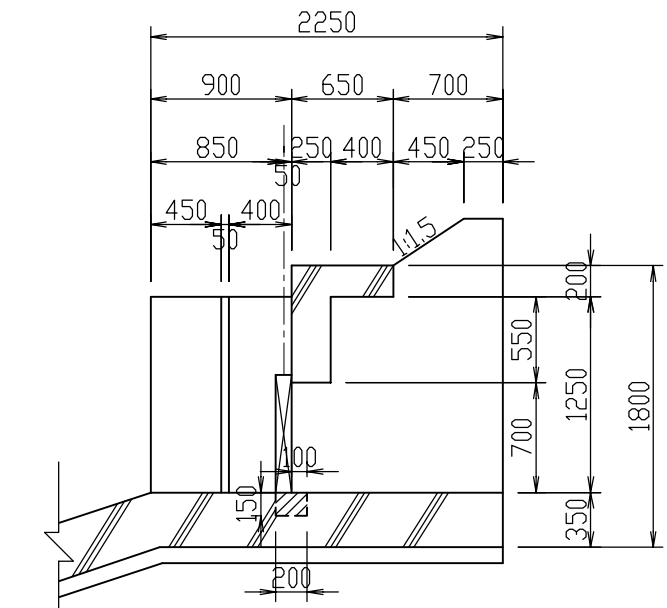
# TURNOUT(T.O.21), MAINTENANCE FLOW GATE (MG-1, MG-2) (1/2)



PLAN S=1:100



DETAIL A S=1:50



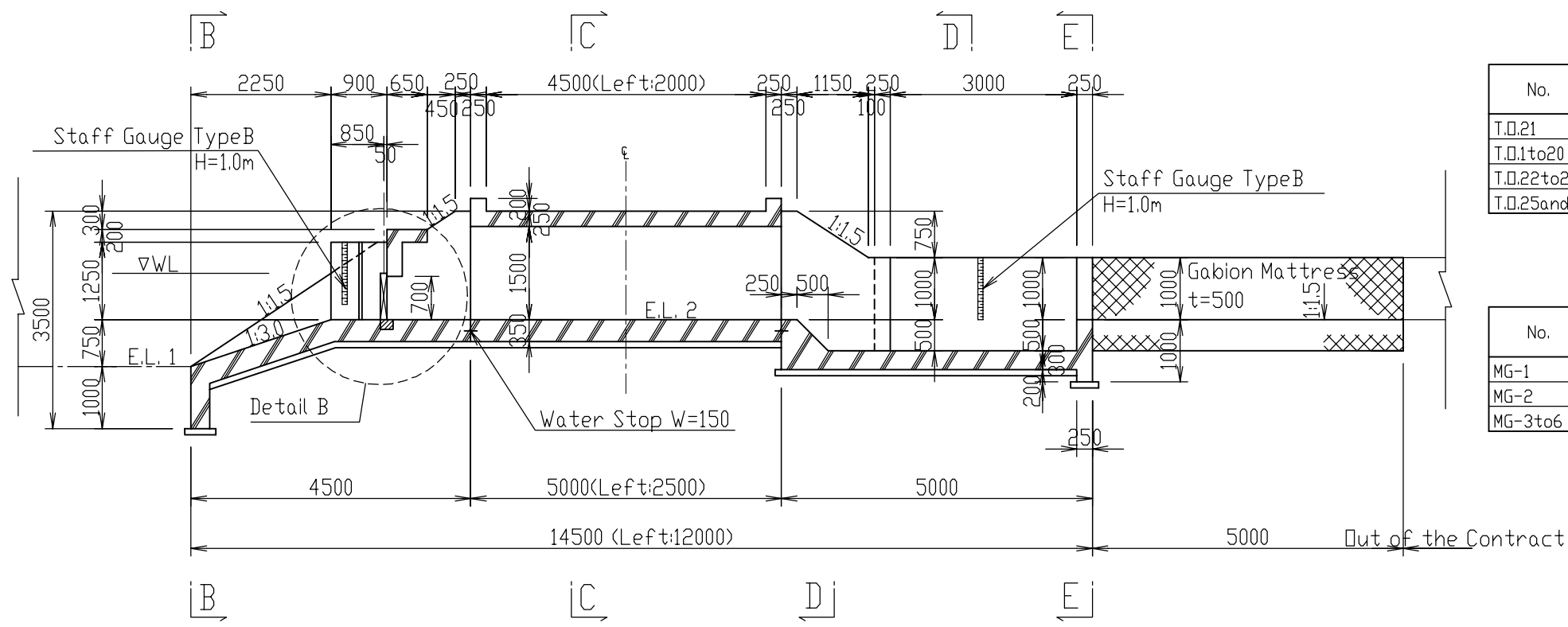
DETAIL B S=1:50

DIMENSION TABLE (TURNOUT)

No.	Station No.	Side	Discharge (m <sup>3</sup> /s)	EL.1 (m)	EL.2 (m)	Remarks
T.O.21	4+687	Right	0.297	9.217	9.967	L-3(S)
T.O.1to20	See Drawing No.4-13 to 15 Turnout, Maintenance Flow Gate (MG-3 to 6)					
T.O.22to24	See Drawing No.4-13 to 15 Turnout, Maintenance Flow Gate (MG-3 to 6)					
T.O.25and26	See Drawing No.4-20 to 24 End Structure					

DIMENSION TABLE (MAINTENANCE FLOW GATE)

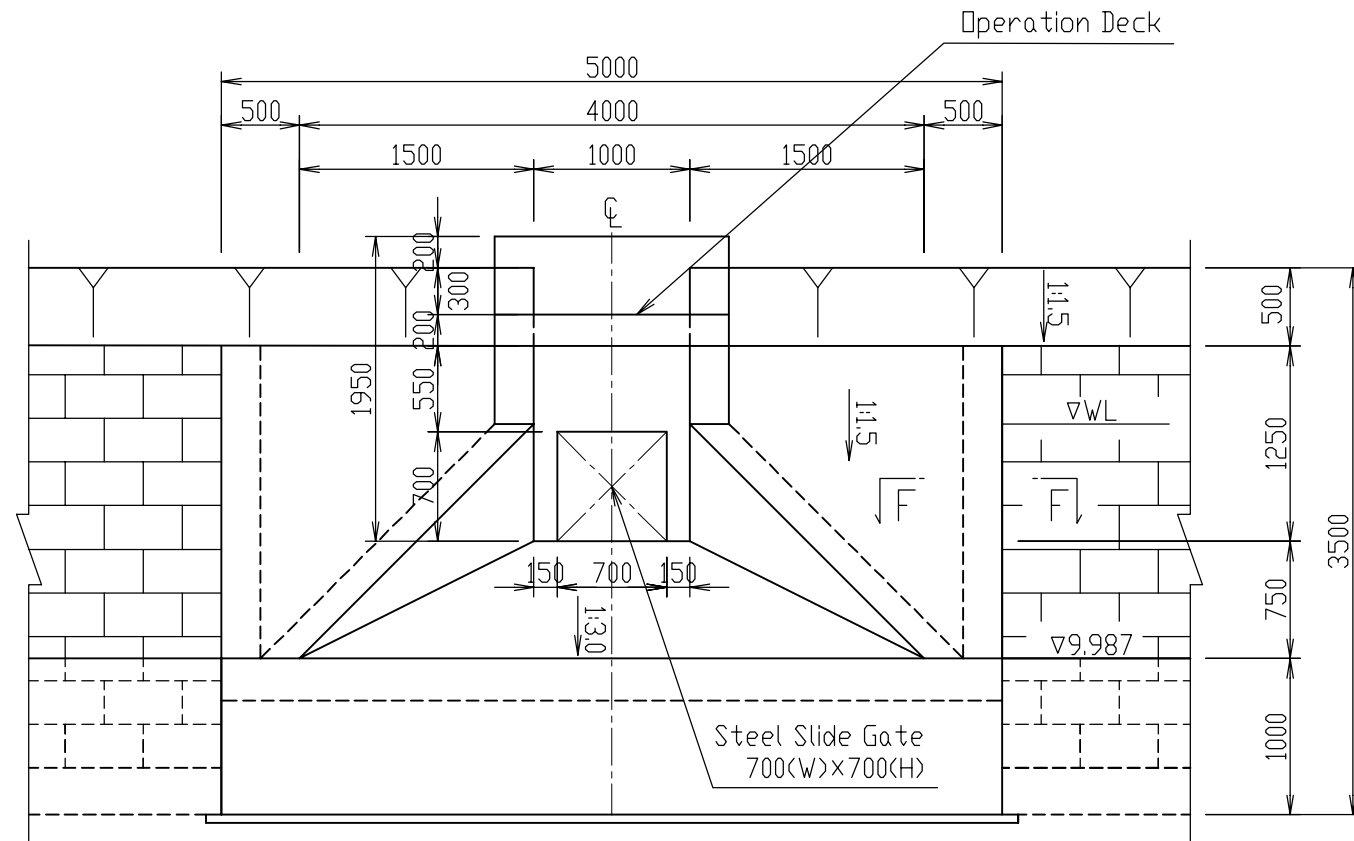
No.	Station No.	Side	EL.1 (m)	EL.2 (m)	Remarks
MG-1	0+850	Right	9.668	10.418	
MG-2	0+850	Left	9.668	10.418	
MG-3to6	See Drawing No.4-13 to 15 Turnout, Maintenance Flow Gate (MG-3 to 6)				



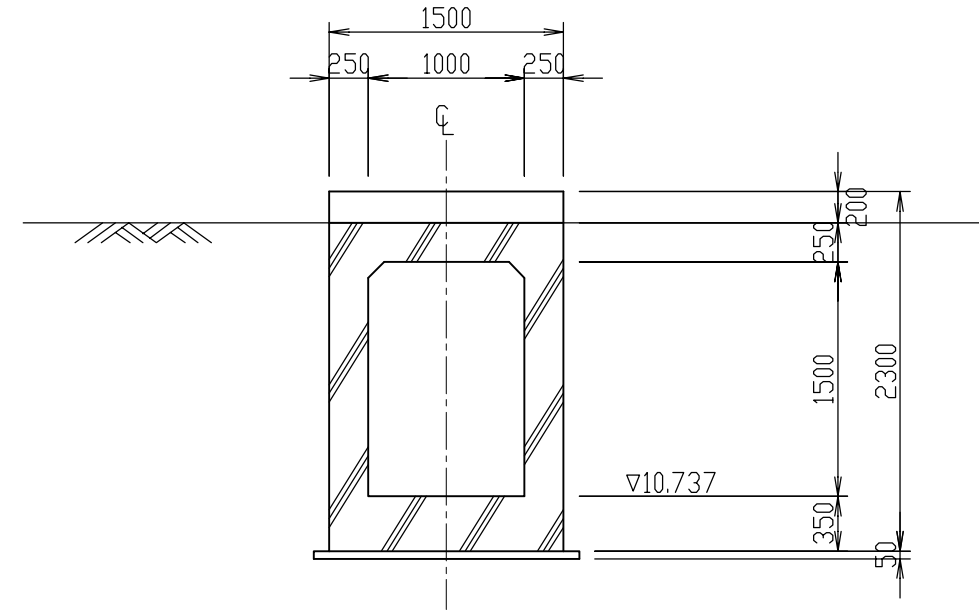
SECTION A-A S=1:100

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
灌漑施設		
分水工(T.O.21)および放流工(MG-1, MG-2) (1/2)		
DATE	DRAWING NO.	4-16
NIPPON KOEI CO., LTD., JAPAN		

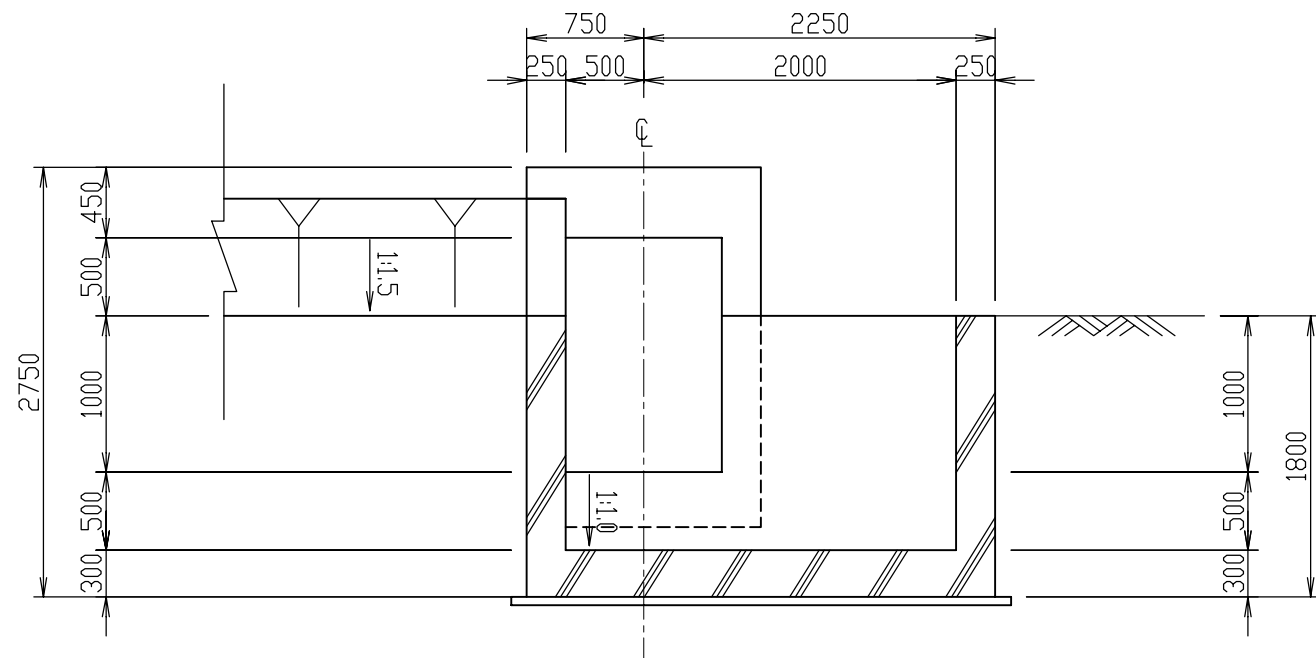
TURNOUT (T.O.21), MAINTENANCE FLOW GATE (MG-1, MG-2) (2/2)



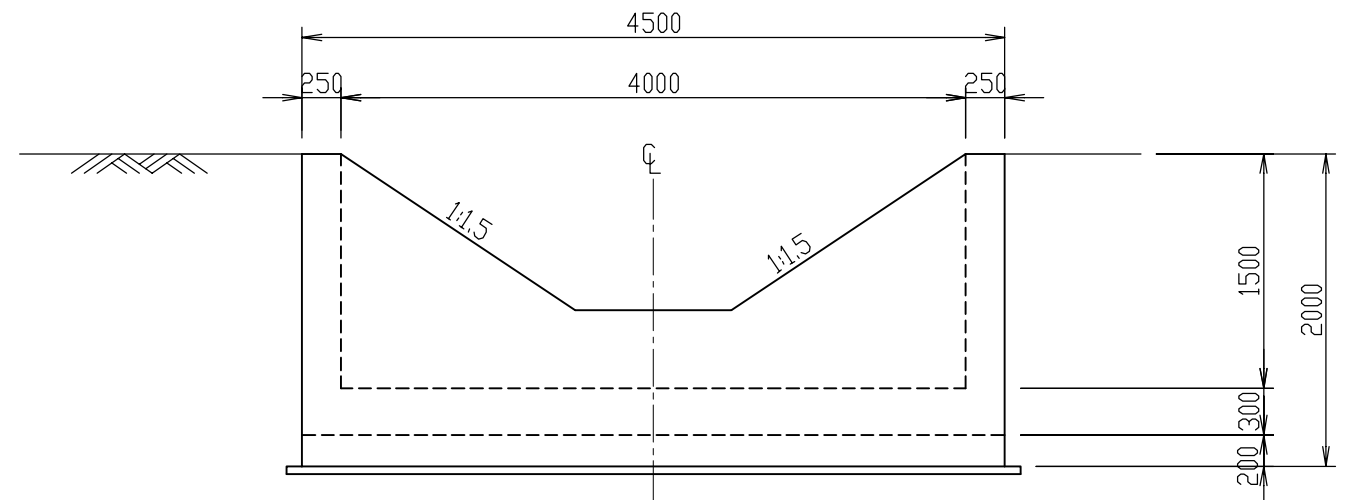
SECTION B - B s=1:50



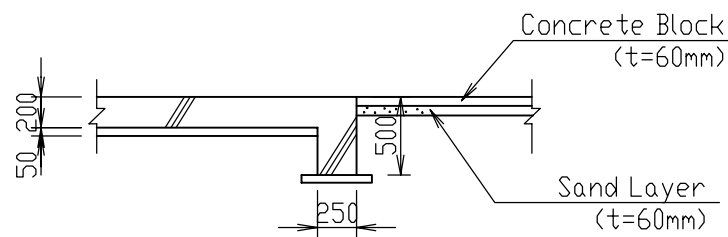
SECTION C - C s=1:50



SECTION D - D s=1:50



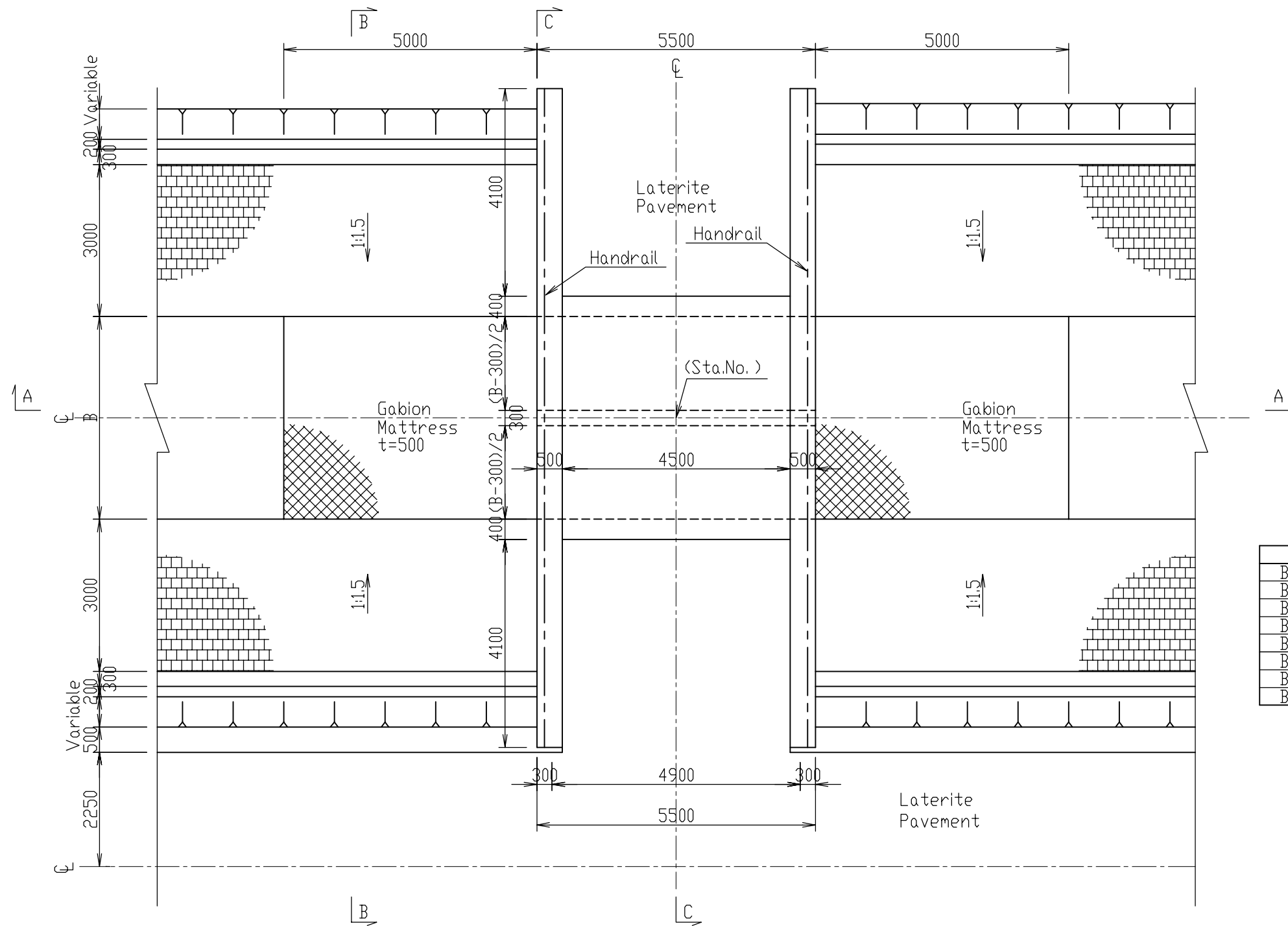
SECTION E - E s=1:50



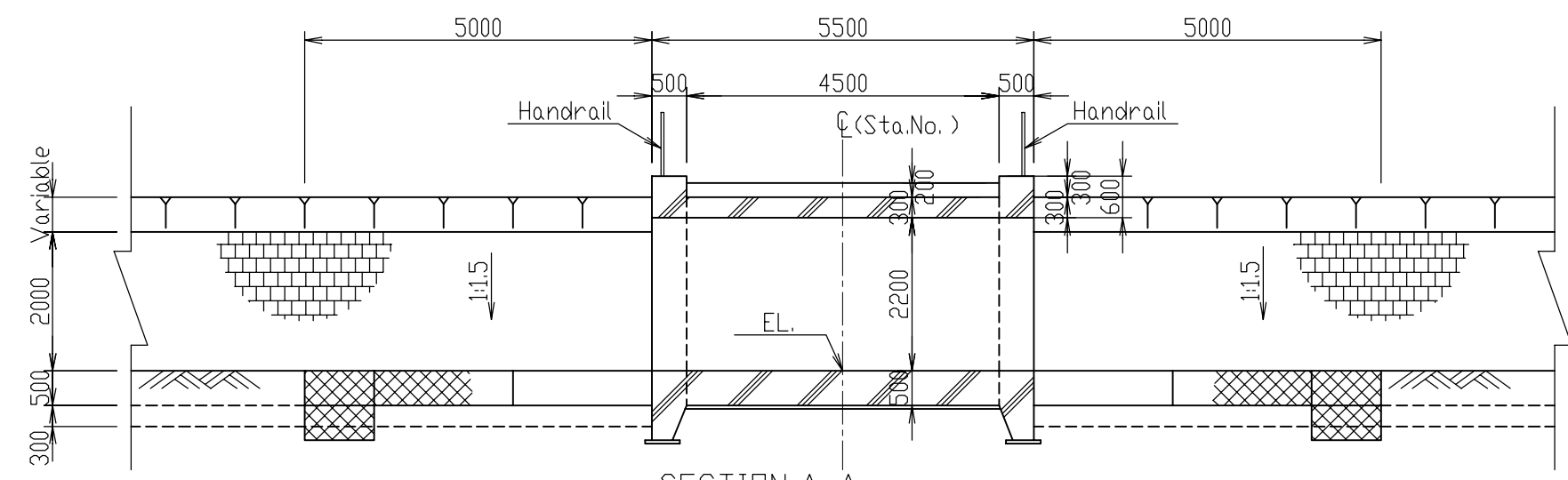
SECTION F - F s=1:50

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 分水工(T.O.21)および放流工(MG-1, MG-2) (2/2)		
DATE	DRAWING NO.	4-17
NIPPON KOEI CO., LTD., JAPAN		

# BOX CULVERT (1/2)



PLAN S=1:100



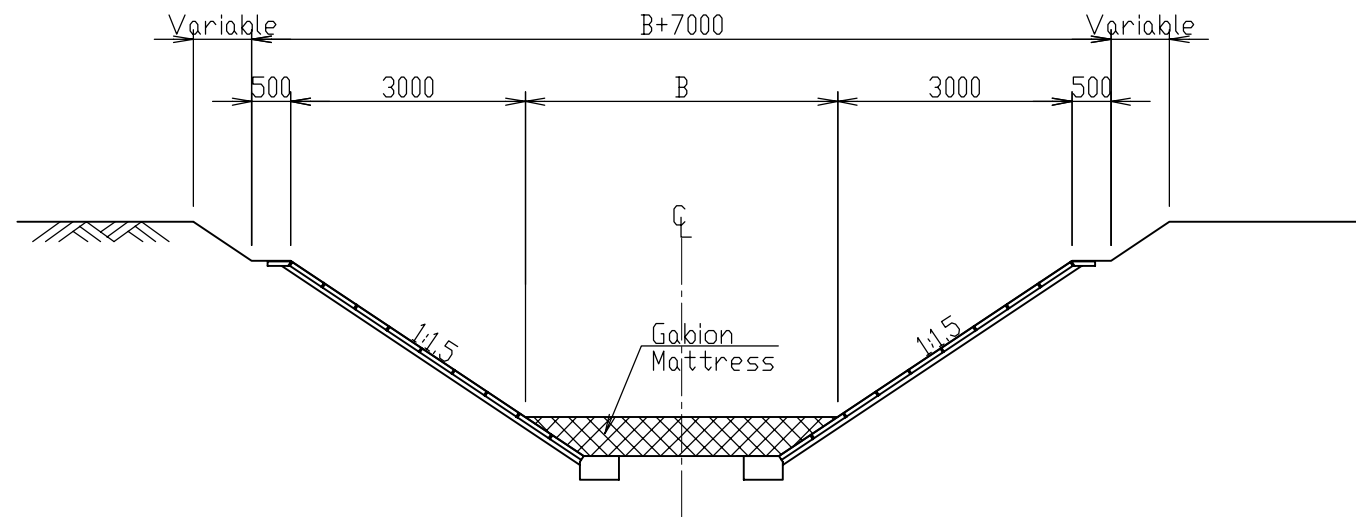
SECTION A-A S=1:100

DIMENSION TABLE

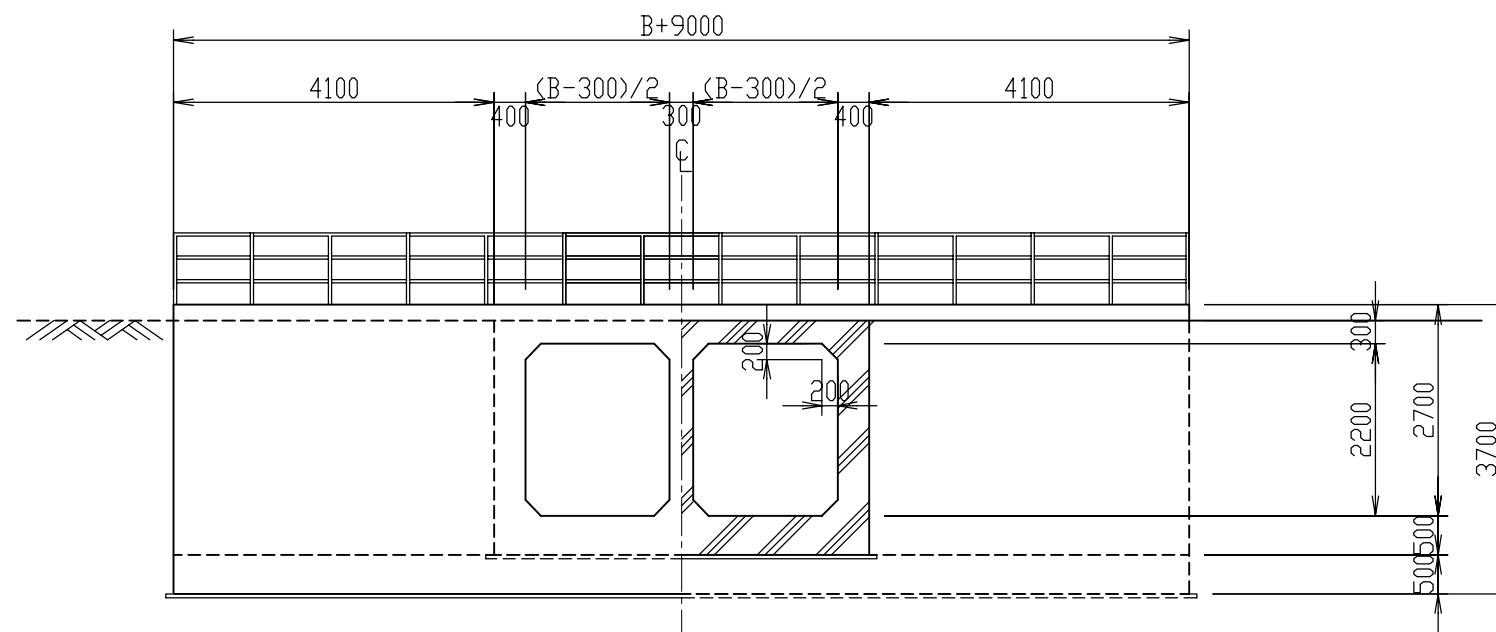
No.	Station No.	EL.(m)	B.(m)	Remarks
BXC-1	1+122	9.981	5.000	Two-box type
BXC-2	1+530	9.973	5.000	
BXC-3	1+972	9.965	4.000	
BXC-4	3+185	9.541	3.000	One-box type
BXC-5	3+685	9.533	3.000	
BXC-6	4+405	9.222	3.000	
BXC-7	4+697	9.217	2.000	
BXC-8	5+190	9.211	2.000	

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌溉施設 水路横断工(1/2)		
DATE	DRAWING NO.	4-18
NIPPON KOEI CO., LTD., JAPAN		

# BOX CULVERT (2/2)

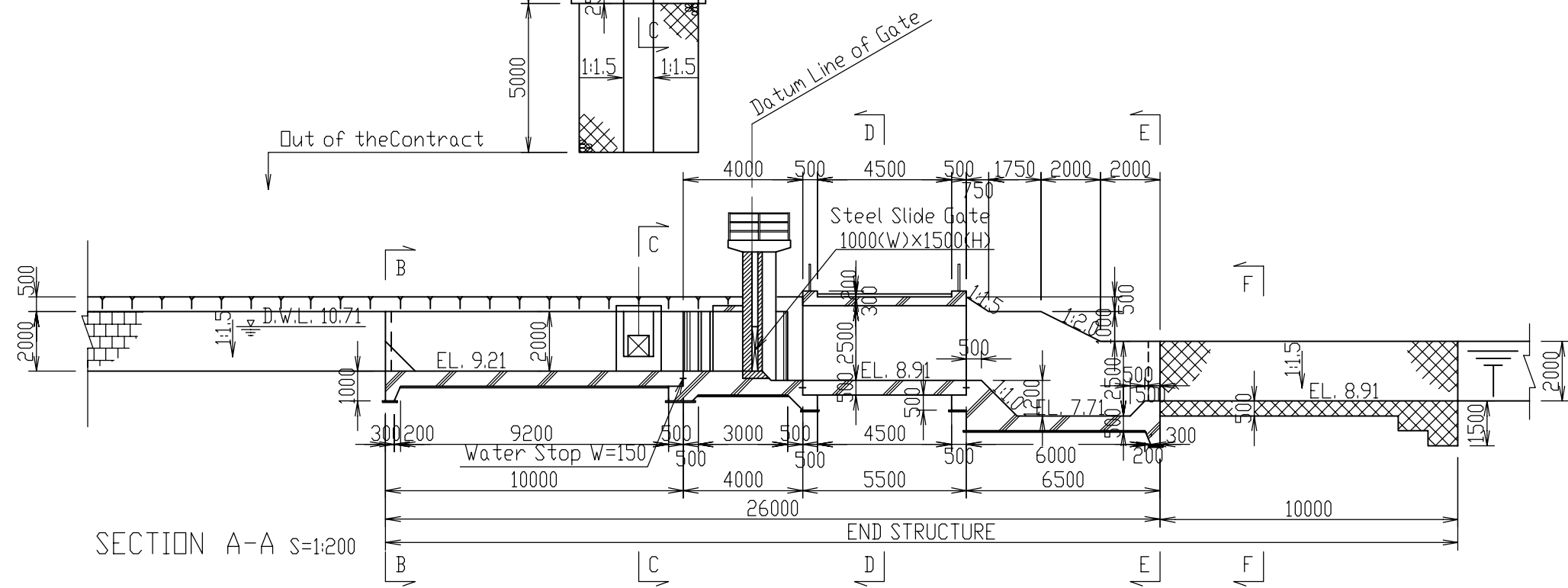
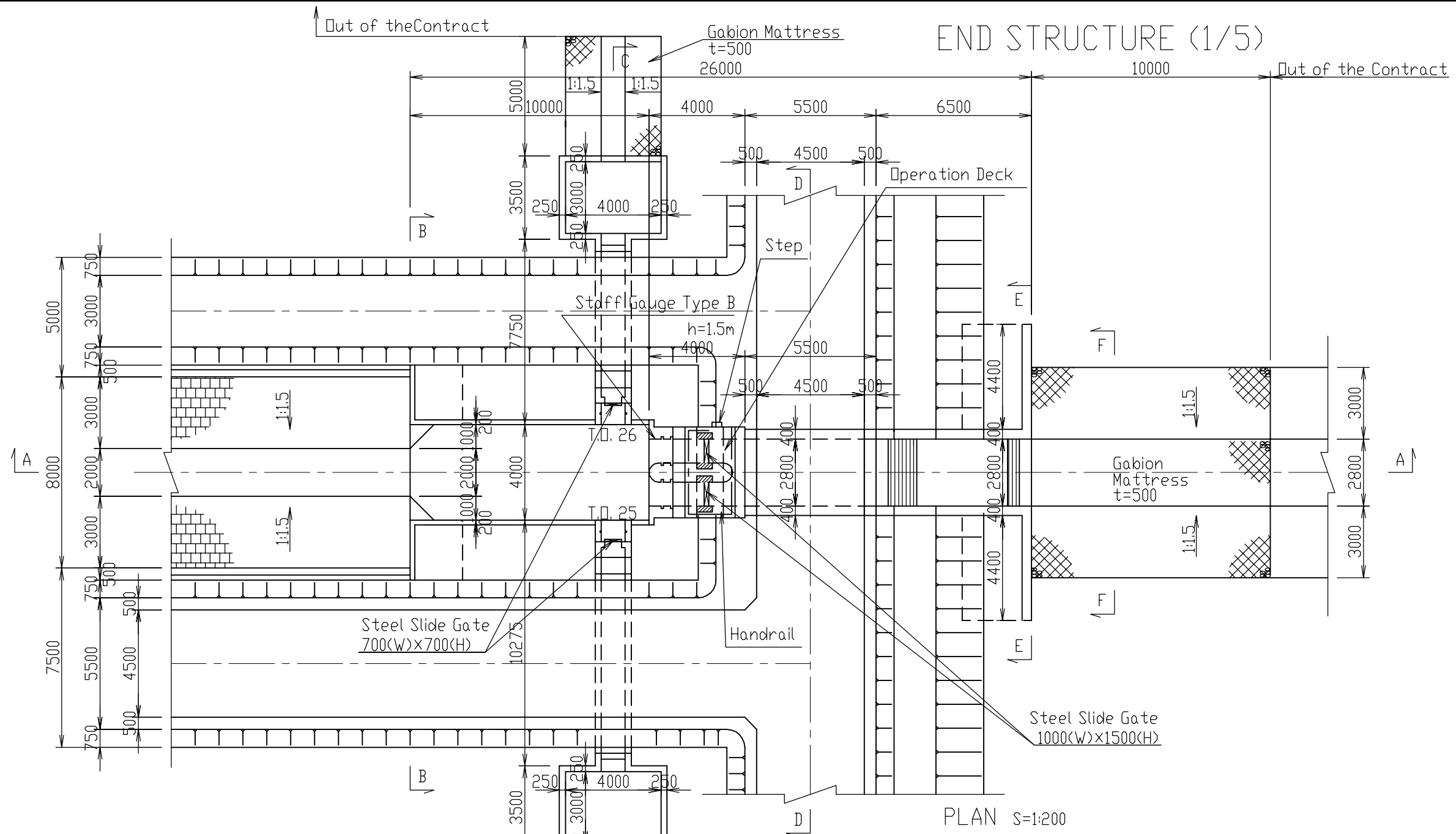


SECTION B-B S=1:100



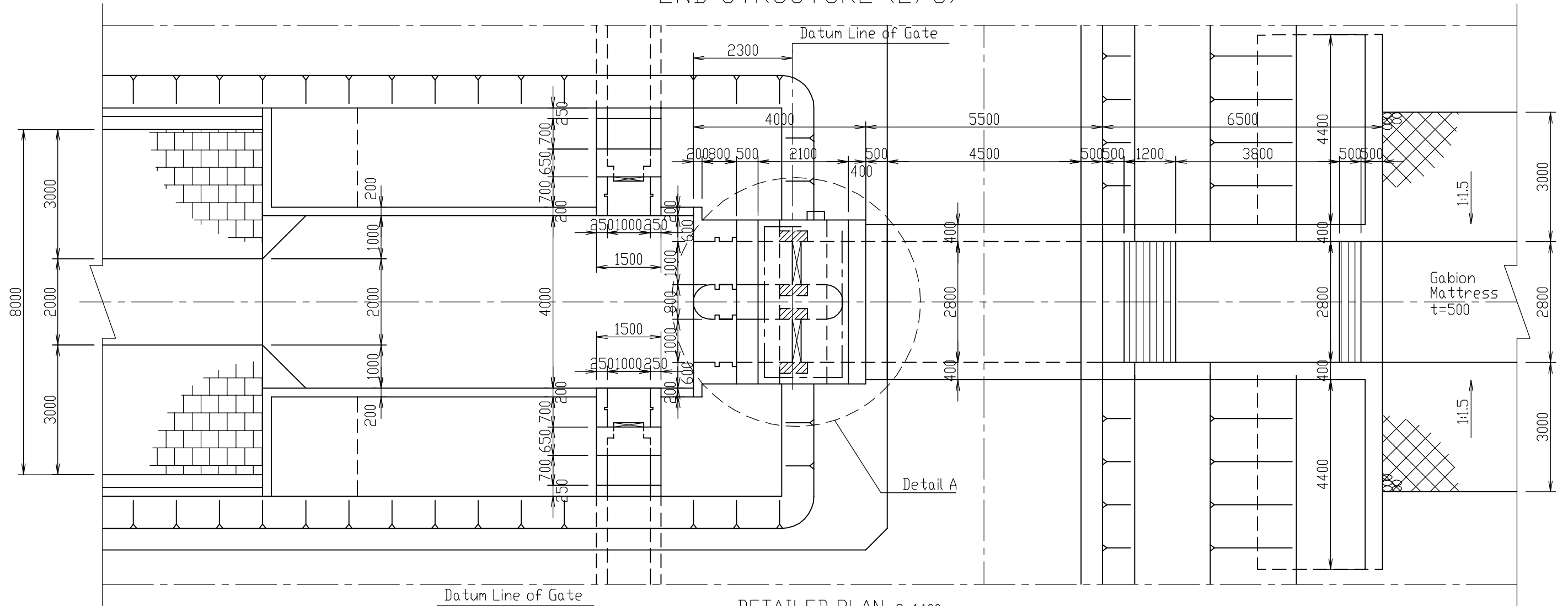
SECTION C-C S=1:100

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 水路横断工(2/2)		
DATE	DRAWING NO.	4-19
NIPPON KOEI CO., LTD., JAPAN		

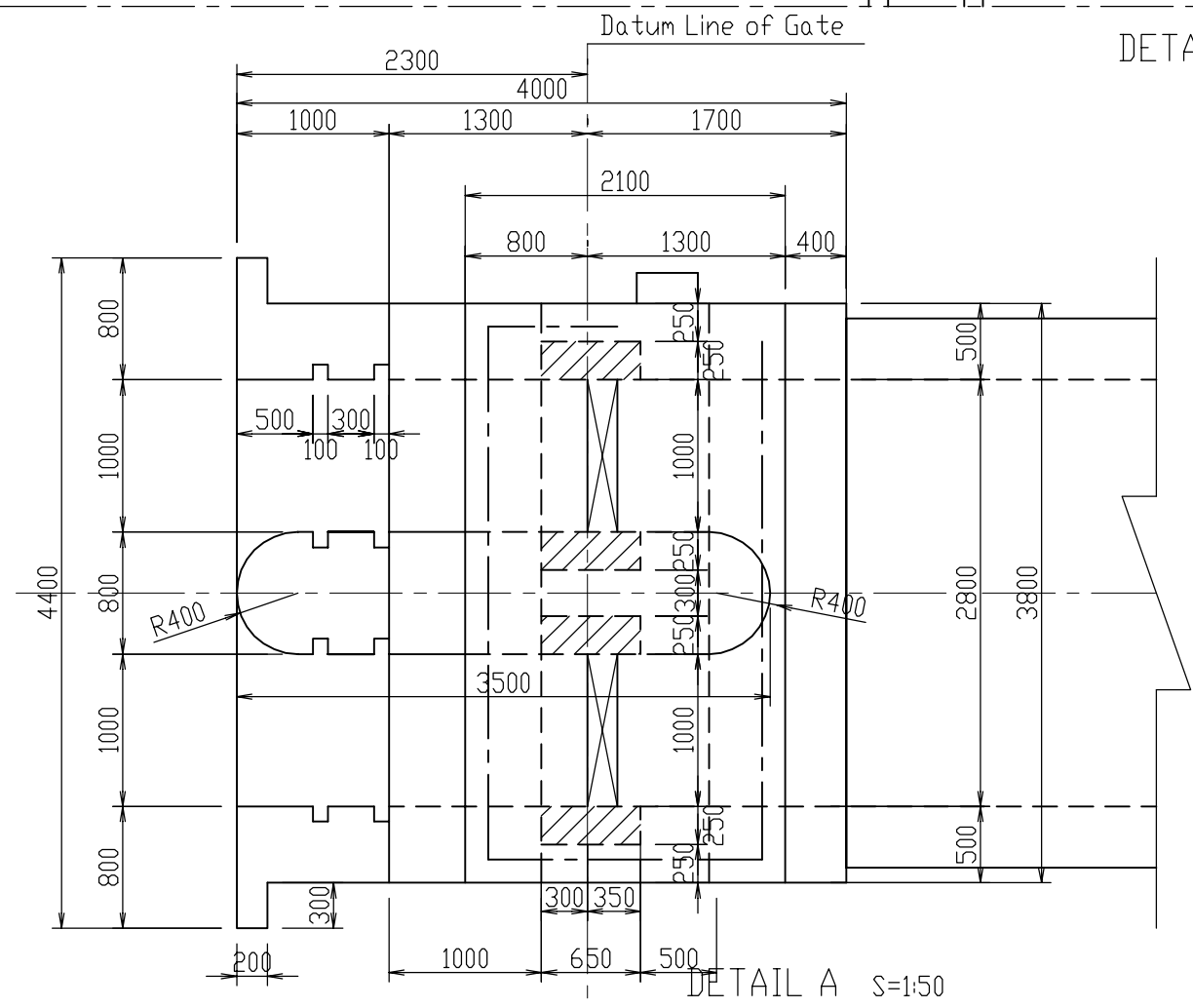


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING		
灌漑施設 幹線用水路終点構造物(1/5)		
DATE	DRAWING NO.	4-20
NIPPON KOEI CO., LTD., JAPAN		

# END STRUCTURE (2/5)



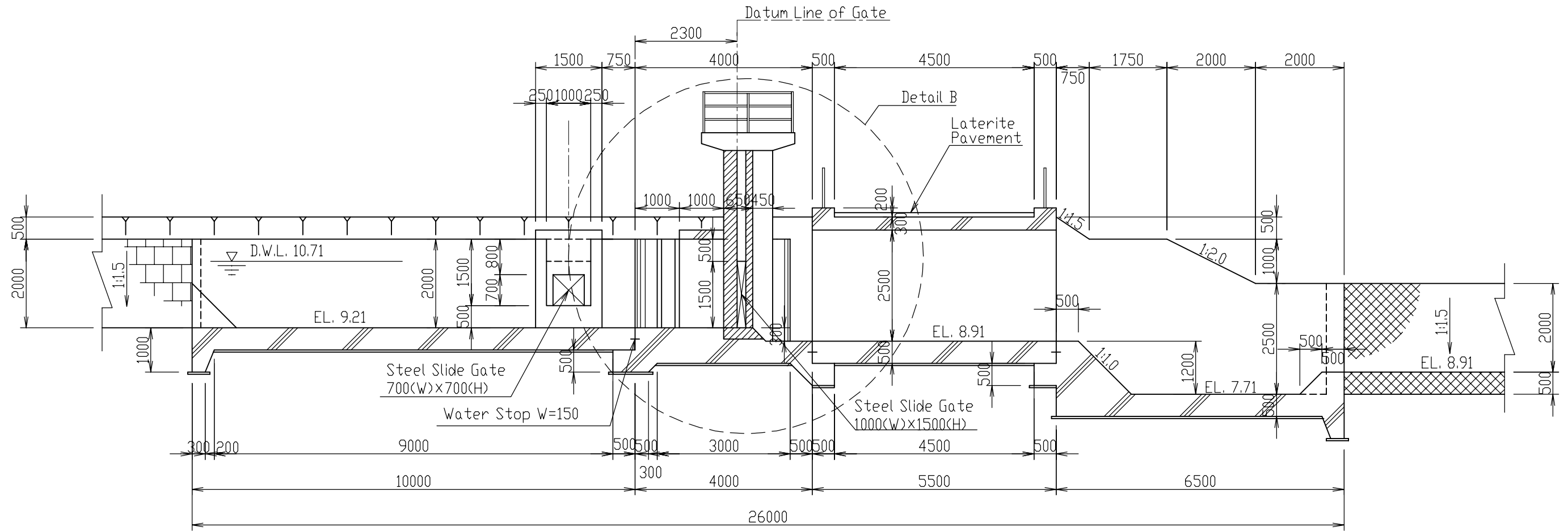
DETAILED PLAN S=1:100



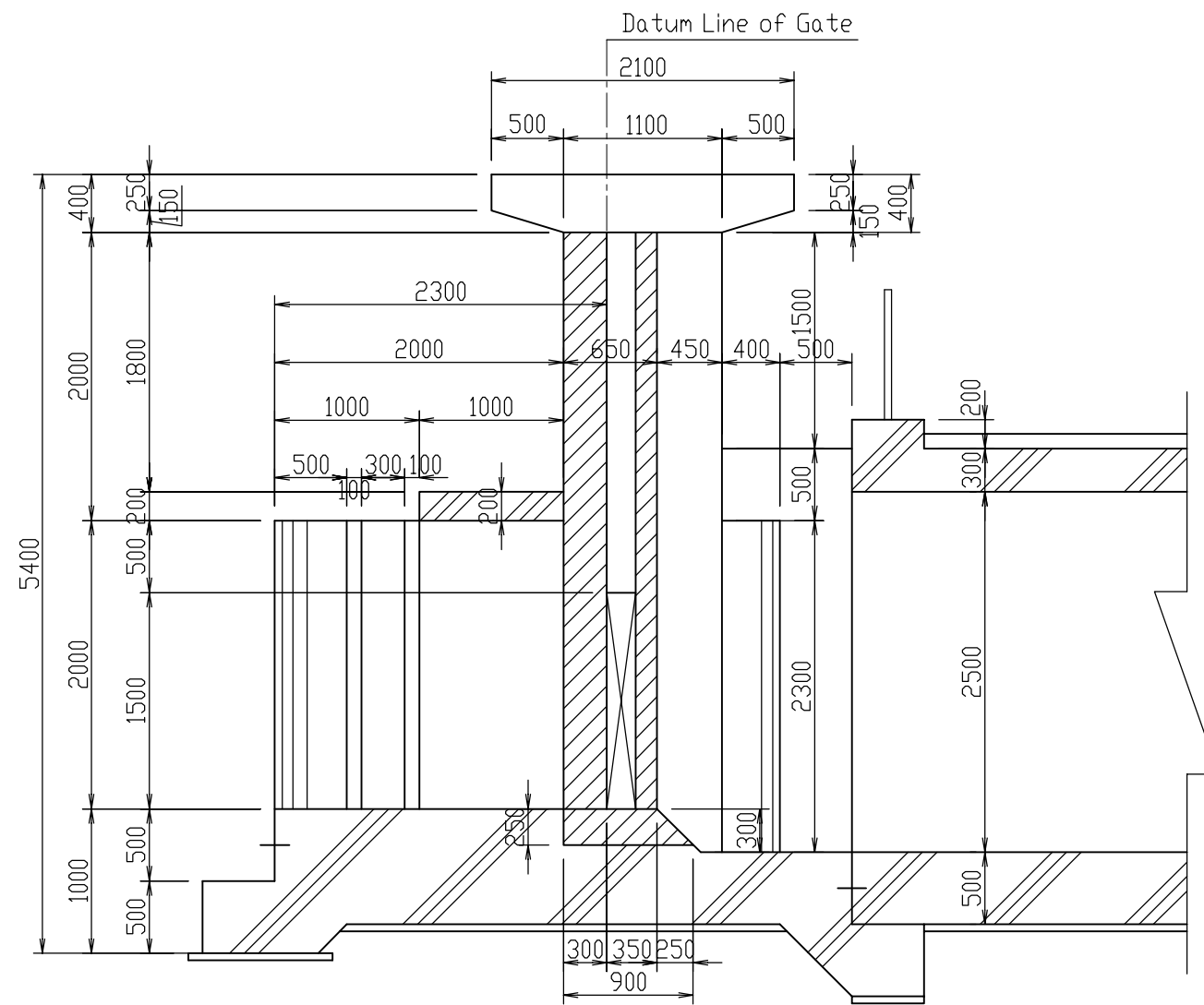
DETAIL A S=1:50

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 幹線用水路終点構造物(2/5)		
DATE	DRAWING NO.	4-21
NIPPON KOEI CO., LTD., JAPAN		

# END STRUCTURE (3/5)



DETAILED PROFILE S=1:100

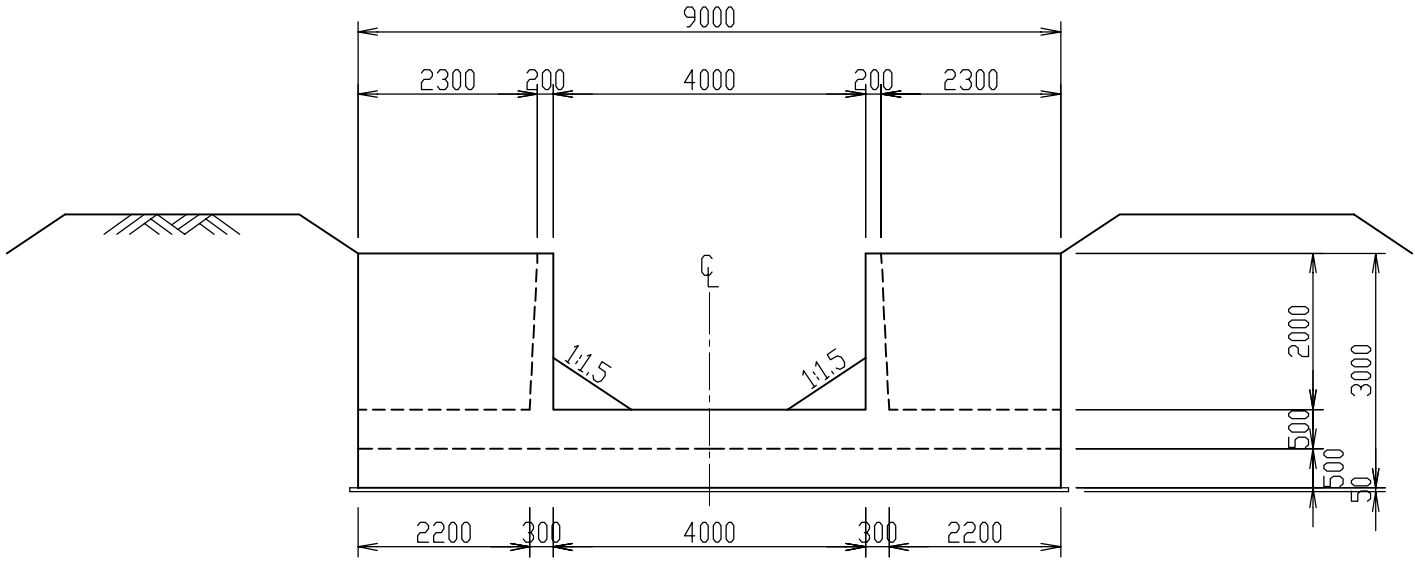


DETAIL B S=1:50

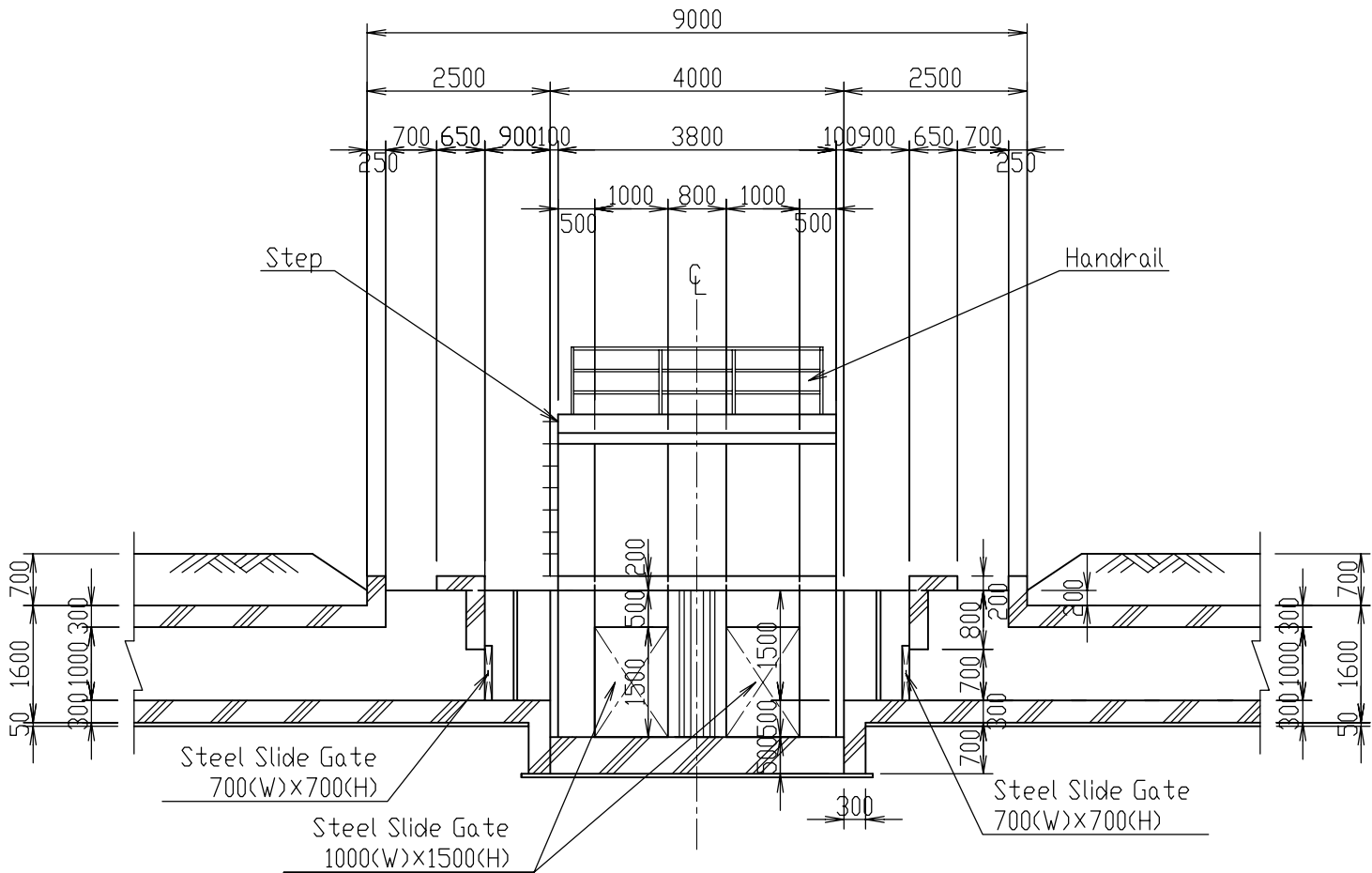
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 幹線用水路終点構造物(3/5)		
DATE	DRAWING NO.	4-22
NIPPON KOEI CO., LTD., JAPAN		



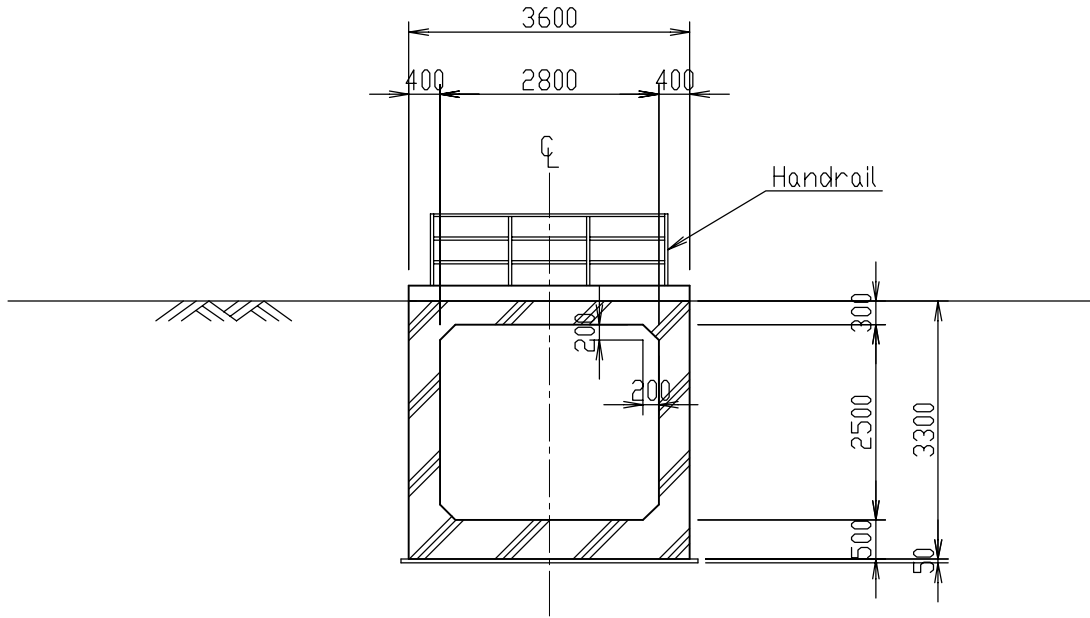
# END STRUCTURE (4/5)



SECTION B-B S=1:100



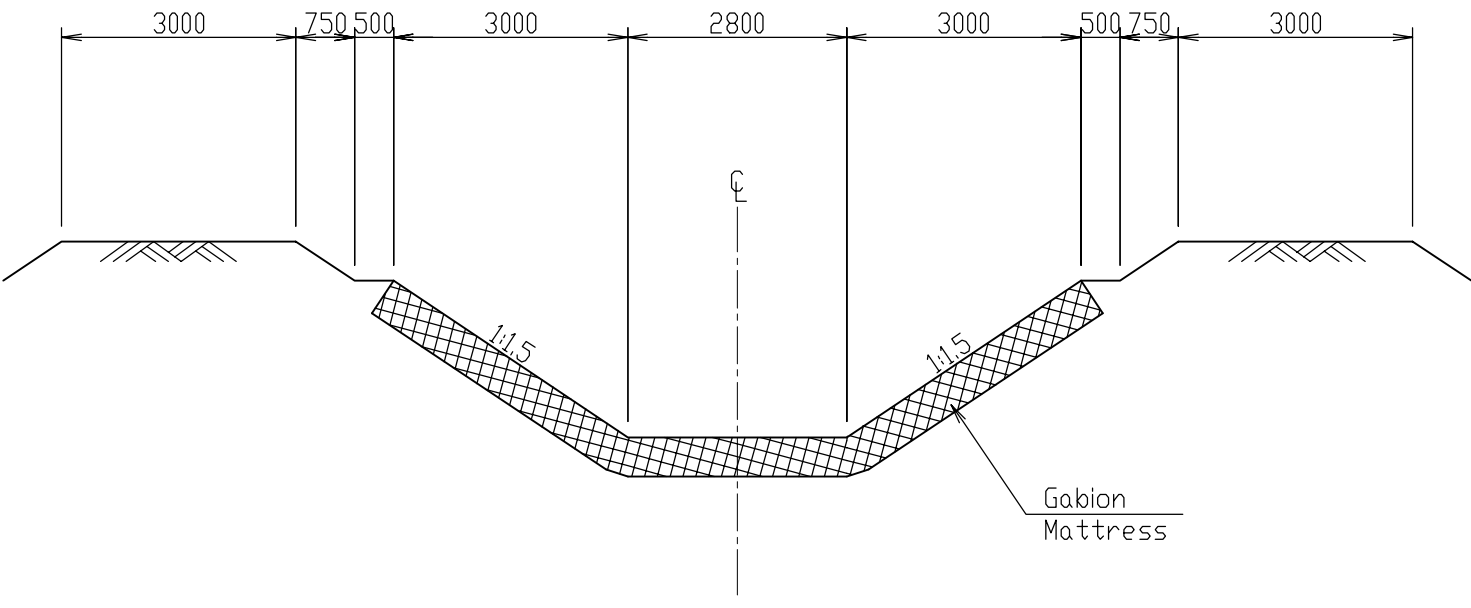
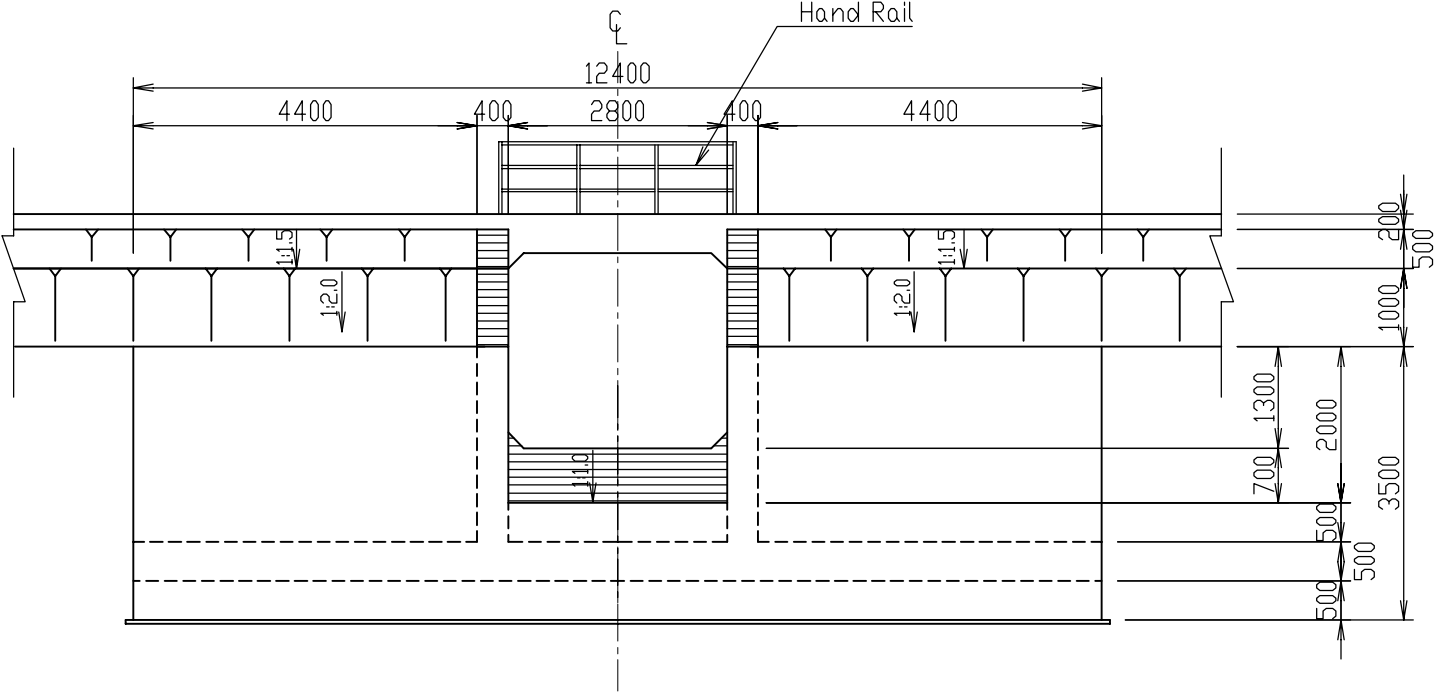
SECTION C-C S=1:100



SECTION D-D S=1:100

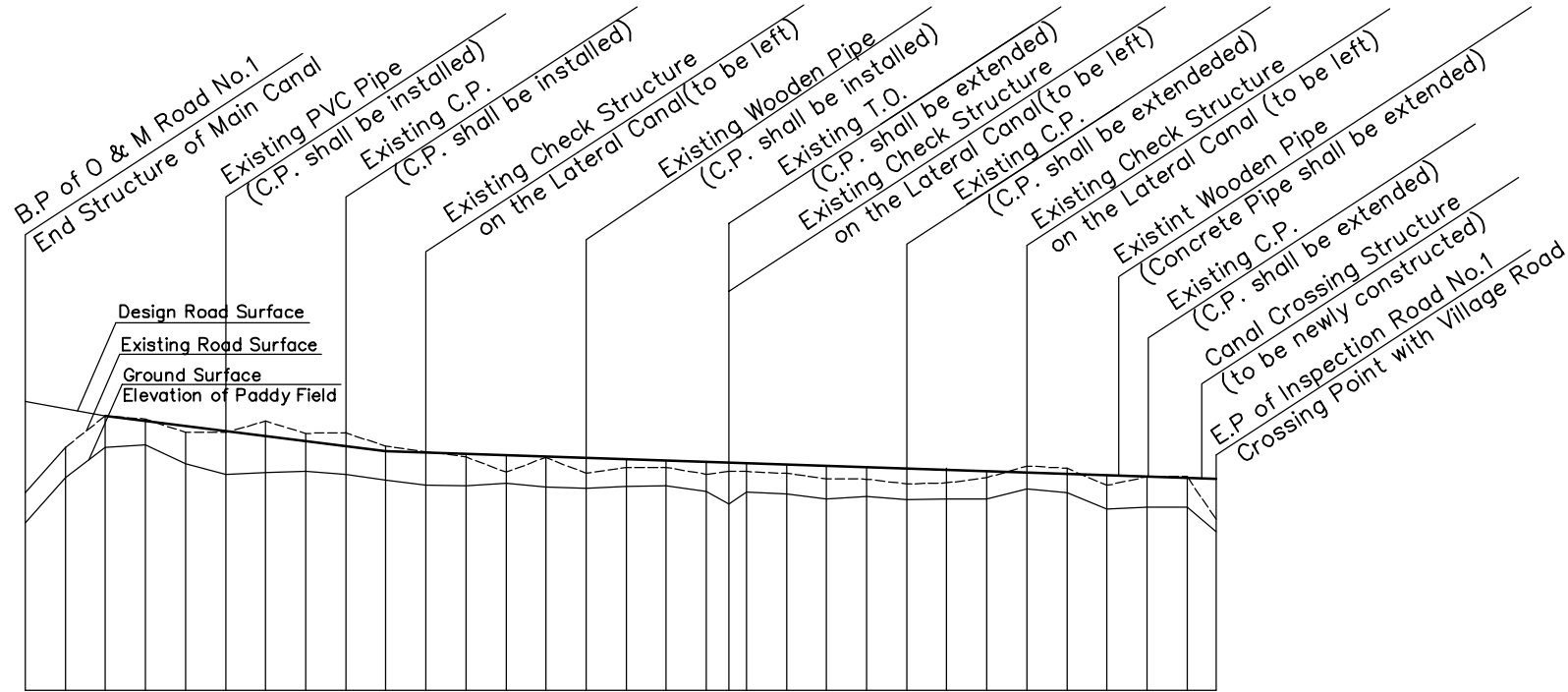
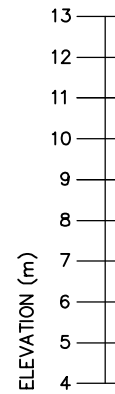
THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 幹線用水路終点構造物(4/5)		
DATE	DRAWING NO.	4-23
NIPPON KOEI CO., LTD., JAPAN		

END STRUCTURE (5/5)

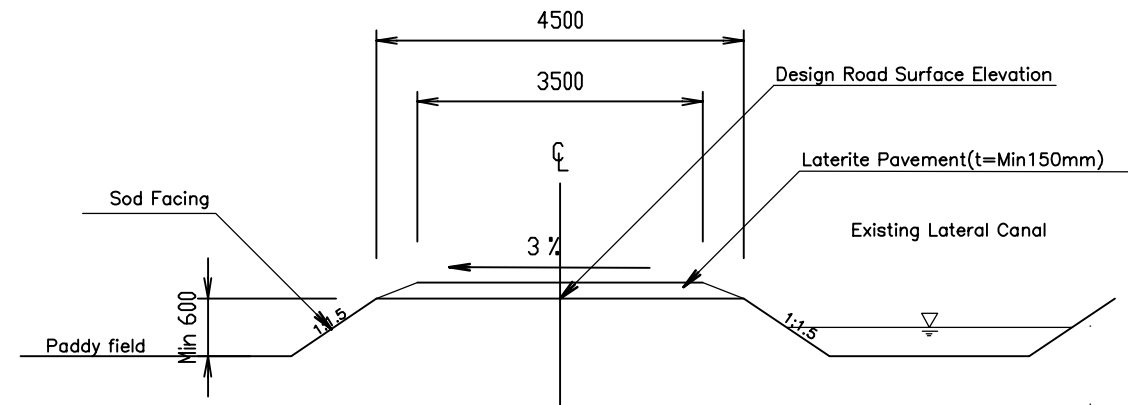


THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 幹線用水路終点構造物(5/5)		
DATE	DRAWING NO.	4-24
NIPPON KOEI CO., LTD., JAPAN		

# PROFILE OF O & M ROAD NO.1



DESIGN ROAD SURFACE ELEVATION	11.21	11.03	10.85	10.72	10.60	10.47	10.34	10.22	10.09	9.97	9.93	9.90	9.87	9.83	9.80	9.77	9.73	9.70	9.68	9.67	9.63	9.60	9.57	9.53	9.50	9.47	9.43	9.40	9.36	9.33	9.30	9.28		
GROUND SURFACE ELEVATION OF PADDY FIELD	8.227	9.310	10.059	10.127	9.662	9.389	9.431	9.464	9.385	9.252	9.126	9.104	9.167	9.072	9.044	9.092	9.109	8.959	8.652	8.948	8.898	8.774	8.839	8.755	8.780	8.772	9.034	8.939	8.577	8.547	8.581	8.567	7.966	
EXISTING ROAD SURFACE ELEVATION	8.942	10.070	10.852	10.770	10.439	10.424	10.717	10.415	10.431	10.092	9.961	9.829	9.446	9.815	9.418	9.565	9.653	9.396	9.464	9.377	9.419	9.282	9.272	9.156	9.180	9.311	9.600	9.543	9.117	9.160	9.333	8.337	8.278	
ACCUMULATED DISTANCE	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	878	900	950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,368	1,365	1,400	1,450	1,488	
DISTANCE		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	28	22	50	50	50	50	50	50	50	50	50	50	50	50	38	38
STATION NO.	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+878	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+368	1+365	1+400	1+450	1+488	



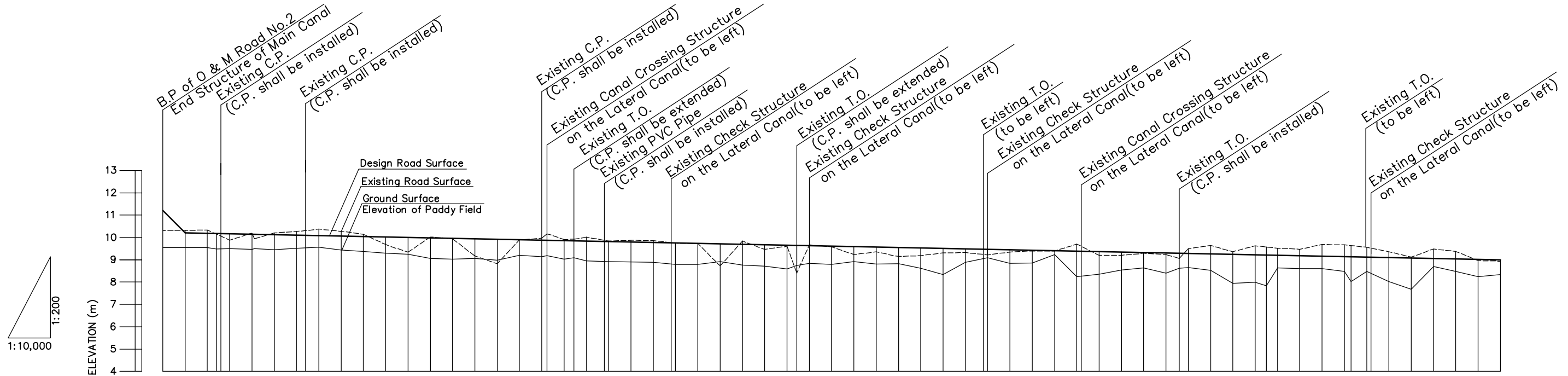
TYPICAL CROSS SECTION OF O & M ROAD No.1 s=1/100

Note: Ditches crossing O&M Road for irrigation/drainage shall be replaced with concrete pipes.

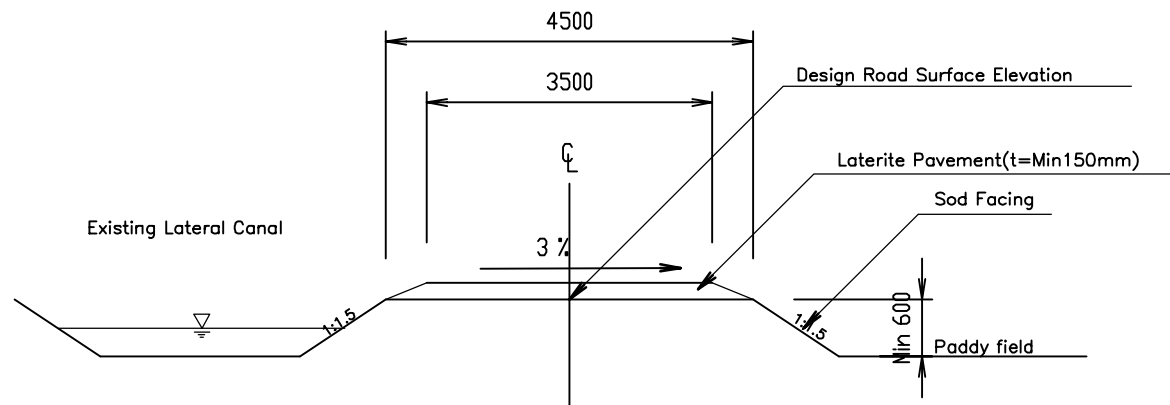
C.P.: Concrete Pipe  
T.O.: Turn Out

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌溉施設 二次用水路維持管理道路縦断面図(No.1)		
DATE	DRAWING NO.	4-25
NIPPON KOEI CO., LTD., JAPAN		

# PROFILE OF O & M ROAD NO.2(1/2)



DESIGN ROAD SURFACE ELEVATION	11.21	11.13	11.05	11.00	10.97	10.89	10.80	10.72	10.69	10.64	10.56	10.47	10.39	10.31	10.23	10.15	10.06	9.98	9.90	9.88	9.88	9.86	9.85	9.84	9.82	9.80	9.78	9.76	9.74	9.72	9.70	9.68	9.66	9.65	9.63	9.61	9.60	9.57	9.55	9.53	9.51	9.49	9.47	9.45	9.43	9.41	9.39	9.37	9.35	9.33	9.31	9.30	9.29	9.27	9.25	9.23	9.22	9.21	9.18	9.16	9.14	9.14	9.12	9.10	9.08	9.06	9.04	9.02	9.00				
GROUND SURFACE ELEVATION OF PADDY FIELD	9.542	9.542	9.528	9.486	9.489	9.470	9.459	9.508	9.530	9.562	9.439	9.378	9.296	9.246	9.057	9.020	9.056	8.982	9.196	9.130	9.134	9.032	9.089	8.947	8.920	8.901	8.888	8.814	8.795	8.789	8.911	8.764	8.719	8.585	8.562	8.539	8.839	8.793	8.923	8.814	8.817	8.616	8.335	8.289	9.093	8.834	8.847	9.339	8.247	8.347	8.537	8.630	8.393	8.622	8.655	8.521	7.947	7.887	7.828	8.640	8.607	8.599	8.517	8.498	8.029	7.684	8.696	8.474	8.242	8.341			
EXISTING ROAD SURFACE ELEVATION	10.300	10.300	10.298	10.254	9.880	10.138	10.223	10.881	10.601	10.181	10.275	9.825	9.679	9.334	10.024	9.940	9.165	8.828	9.681	9.964	10.164	9.912	9.916	10.010	9.839	9.870	9.861	9.765	9.732	8.726	9.840	9.464	9.602	8.407	8.668	9.575	9.237	9.350	9.183	9.181	9.309	9.319	9.222	9.344	9.395	9.396	9.701	9.194	9.201	9.288	9.236	9.058	9.491	9.640	9.363	9.626	9.572	9.518	9.469	9.684	9.668	9.135	9.559	9.364	9.121	9.482	9.373	8.959	8.935				
ACCUMULATED DISTANCE	0	50	100	120	130	200	250	300	320	350	400	450	500	550	600	650	700	750	800	850	862	900	922	950	990	1,050	1,100	1,140	1,150	1,200	1,250	1,300	1,350	1,400	1,422	1,446	1,500	1,550	1,600	1,650	1,700	1,750	1,800	1,840	1,850	1,900	1,950	2,000	2,060	2,100	2,150	2,200	2,250	2,280	2,300	2,350	2,400	2,450	2,475	2,500	2,550	2,600	2,650	2,665	2,700	2,710	2,750	2,800	2,850	2,900	2,950	3,000	
DISTANCE	50	50	20	20	20	50	50	20	20	30	50	50	50	50	50	50	50	50	50	12	38	22	28	40	50	50	40	50	50	50	50	50	50	22	18	50	50	50	50	50	40	50	50	50	50	50	10	40	50	50	50	50	30	20	50	50	50	25	25	50	50	50	15	35	10	40	50	50	50	50	50		
STATION NO.	0+000	0+050	0+100	0+120	0+130	0+200	0+250	0+300	0+320	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+862	0+900	0+922	0+950	0+990	1+000	1+050	1+100	1+140	1+150	1+200	1+250	1+300	1+350	1+400	1+422	1+446	1+500	1+550	1+600	1+650	1+700	1+750	1+800	1+840	1+850	1+900	1+950	2+000	2+060	2+100	2+150	2+200	2+250	2+280	2+300	2+350	2+400	2+450	2+475	2+500	2+550	2+600	2+650	2+665	2+700	2+710	2+750	2+800	2+850	2+900	2+950	3+000



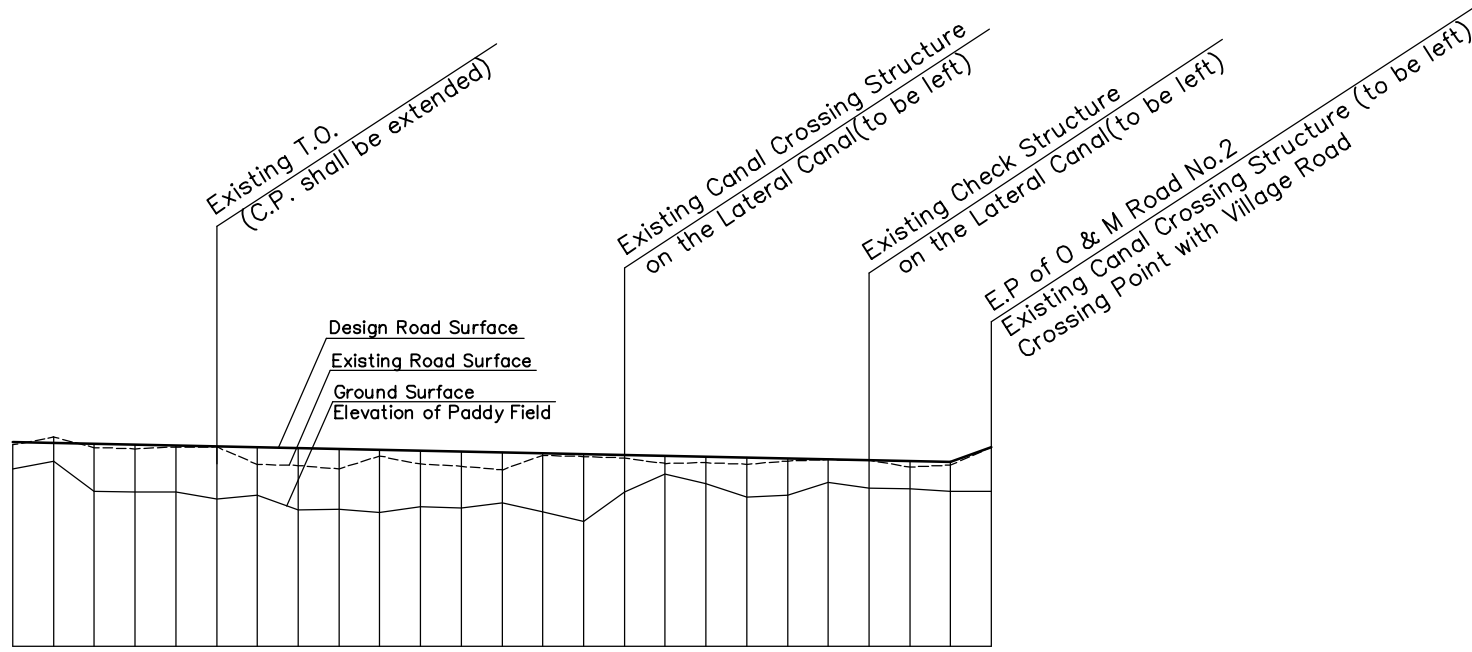
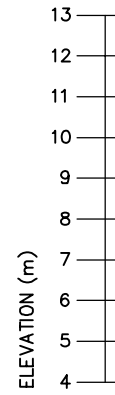
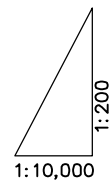
TYPICAL CROSS SECTION OF O & M ROAD No.2 S=1/1000

Note: Ditches crossing O&M Road for irrigation/drainage shall be replaced with concrete pipes.

C.P.: Concrete Pipe  
T.O.: Turn Out

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 二次用水路維持管理道路縦断面図(No.2)(1/2)		
DATE	DRAWING NO.	4-26
NIPPON KOEI CO., LTD., JAPAN		

# PROFILE OF O & M ROAD NO.2(2/2)



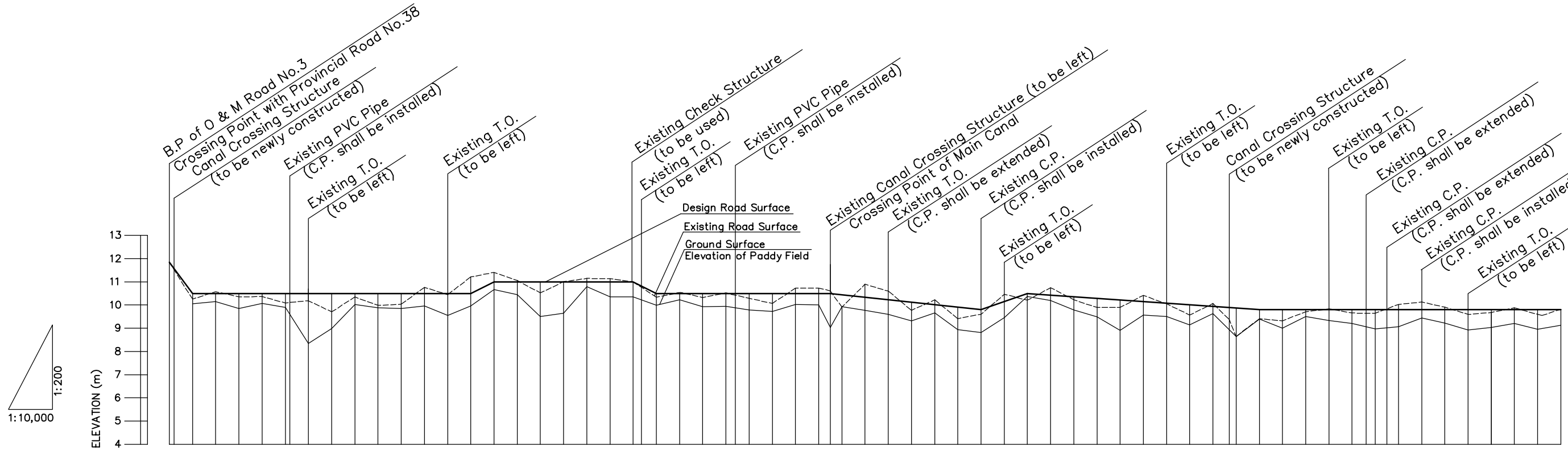
DESIGN ROAD SURFACE ELEVATION	9.00	8.98	8.96	8.94	8.92	8.90	8.88	8.85	8.83	8.81	8.79	8.77	8.75	8.73	8.71	8.69	8.67	8.65	8.63	8.60	8.58	8.56	8.54	8.52	8.88
GROUND SURFACE ELEVATION OF PADDY FIELD	8.341	8.541	7.803	7.776	7.780	7.612	7.697	7.345	7.358	7.275	7.420	7.391	7.507	7.292	7.066	7.778	8.216	7.989	7.658	7.707	8.023	7.878	7.866	7.791	7.790
EXISTING ROAD SURFACE ELEVATION	8.935	9.131	8.871	8.839	8.883	8.888	8.455	8.432	8.345	8.663	8.465	8.411	8.323	8.681	8.648	8.615	8.480	8.499	8.461	8.542	8.576	8.562	8.393	8.441	8.880
ACCUMULATED DISTANCE	3,000	3,050	3,100	3,150	3,200	3,250	3,300	3,350	3,400	3,450	3,500	3,550	3,600	3,650	3,700	3,750	3,800	3,850	3,900	3,950	4,000	4,050	4,100	4,150	4,200
DISTANCE	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
STATION NO.	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200

Note: Ditches crossing O&M Road for irrigation/drainage shall be replaced with concrete pipes.

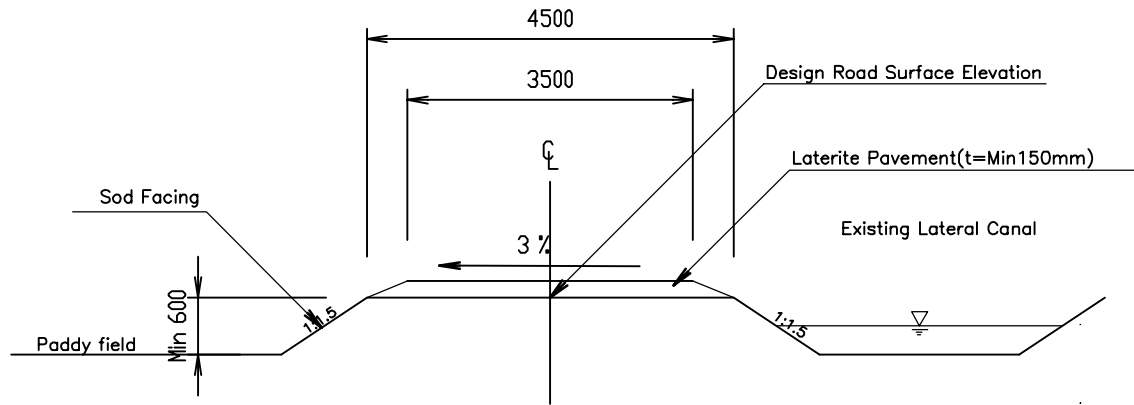
C.P.: Concrete Pipe  
T.O.: Turn Out

THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING			
灌漑施設 二次用水路維持管理道路縦断面図(No.2)(2/2)			
DATE		DRAWING NO.	4-27
NIPPON KOEI CO., LTD., JAPAN			

# PROFILE OF O & M ROAD NO.3(1/2)



DESIGN ROAD SURFACE ELEVATION	GROUND SURFACE ELEVATION OF PADDY FIELD	EXISTING ROAD SURFACE ELEVATION	ACCUMULATED DISTANCE	DISTANCE	STATION NO.
11.88		11.830	0	50	0+000
10.50	10.048	10.252	50	50	0+050
10.50	10.151	10.577	100	50	0+100
10.50	9.850	10.351	150	50	0+150
10.50	10.072	10.365	200	50	0+200
10.50	9.888	10.080	250	50	0+250
10.50	8.347	10.184	300	40	0+300
10.50	8.994	9.703	350	50	0+350
10.50	10.016	10.345	400	50	0+400
10.50	9.880	9.984	450	50	0+450
10.50	9.842	10.036	500	50	0+500
10.50	9.957	10.763	550	50	0+550
10.50	9.554	10.447	600	50	0+600
10.50	9.957	11.210	650	50	0+650
11.00	10.667	11.408	700	50	0+700
11.00	10.451	11.056	750	50	0+750
11.00	9.512	10.521	800	50	0+800
11.00	9.638	11.004	850	50	0+850
11.00	10.792	11.145	900	50	0+900
11.00	10.352	11.137	950	50	0+950
11.00	10.360	10.991	1,000	50	1+000
11.00	10.286	10.861	1,050	40	1+050
10.50	9.990	10.342	1,100	50	1+100
10.50	10.222	10.548	1,150	50	1+150
10.50	9.923	10.327	1,200	50	1+200
10.50	9.950	10.518	1,250	30	1+250
10.50	9.781	10.286	1,300	50	1+300
10.50	9.724	10.069	1,350	50	1+350
10.50	10.029	10.725	1,400	50	1+400
10.50	10.014	10.735	1,425	25	1+425
10.50	9.038	10.884	1,450	50	1+450
10.45	9.923	9.907	1,500	50	1+500
10.34	9.771	10.894	1,550	50	1+550
10.23	9.598	10.600	1,600	50	1+600
10.12	9.317	9.771	1,650	50	1+650
10.02	9.661	10.220	1,700	50	1+700
9.91	8.944	9.409	1,750	50	1+750
9.80	8.814	9.602	1,800	50	1+800
10.15	9.464	10.466	1,850	50	1+850
10.50	10.365	10.203	1,900	50	1+900
10.43	10.197	10.748	1,950	50	1+950
10.36	9.787	10.225	2,000	50	2+000
10.29	9.490	9.894	2,050	50	2+050
10.22	8.915	9.904	2,100	50	2+100
10.15	9.560	10.413	2,150	50	2+150
10.08	9.509	10.052	2,200	50	2+200
10.01	9.143	9.568	2,250	50	2+250
9.94	9.636	10.062	2,300	35	2+300
9.84	8.834	8.834	2,350	50	2+350
9.80	9.387	9.408	2,400	50	2+400
9.80	9.000	9.320	2,450	50	2+450
9.80	9.506	9.705	2,500	50	2+500
9.80	9.337	9.837	2,550	50	2+550
9.80	9.211	9.653	2,600	30	2+600
9.80	9.071	9.652	2,630	20	2+630
9.80	8.976	9.678	2,650	20	2+650
9.80	9.066	10.029	2,700	50	2+700
9.80	9.442	10.127	2,750	50	2+750
9.80	9.220	9.906	2,800	50	2+800
9.80	8.925	9.595	2,850	50	2+850
9.80	9.037	9.675	2,900	50	2+900
9.80	9.205	9.876	2,950	50	2+950
9.80	8.951	9.546	3,000	50	3+000
9.80	9.126	9.821			



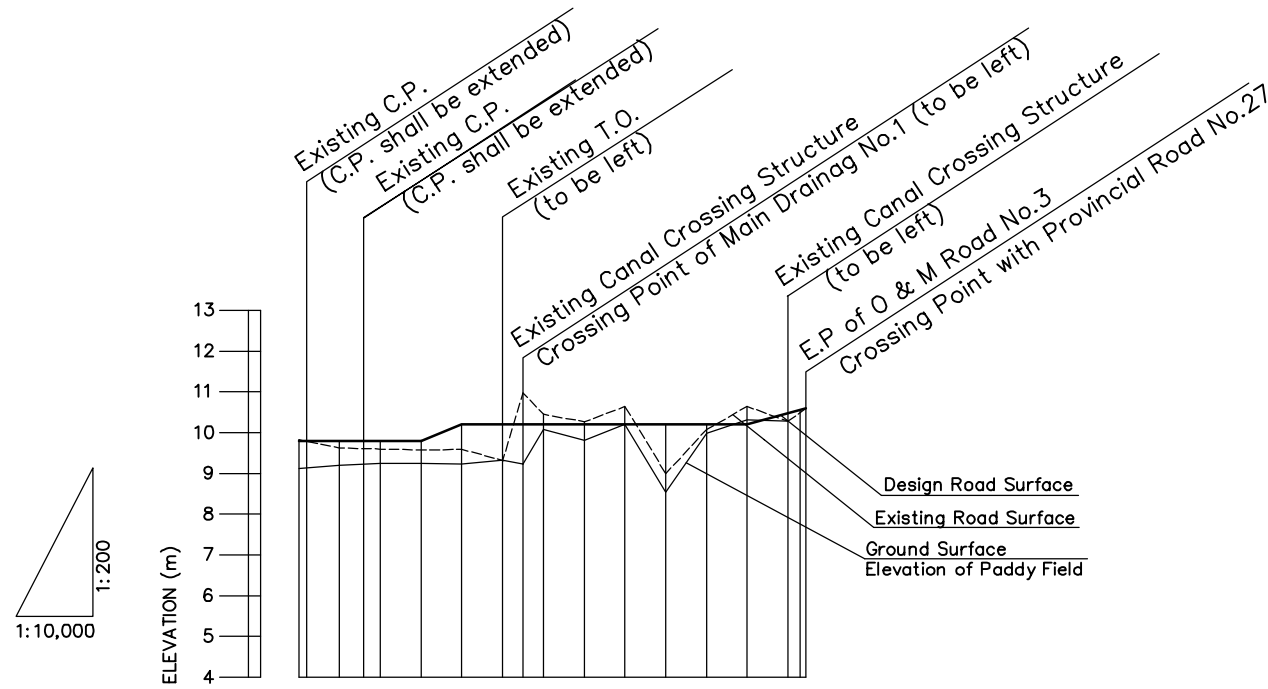
TYPICAL CROSS SECTION OF O & M ROAD No.3 s=1/100

Note: Ditches crossing O&M Road for irrigation/drainage shall be replaced with concrete pipes.

C.P.: Concrete Pipe  
T.O.: Turn Out

THE KINGDOM OF CAMBODIA		
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM		
TITLE OF DRAWING 灌漑施設 二次用水路維持管理道路縦断面図(No.3)(3/3)		
DATE	DRAWING NO.	4-28
NIPPON KOEI CO., LTD., JAPAN		

# PROFILE OF O & M ROAD NO.3(2/2)



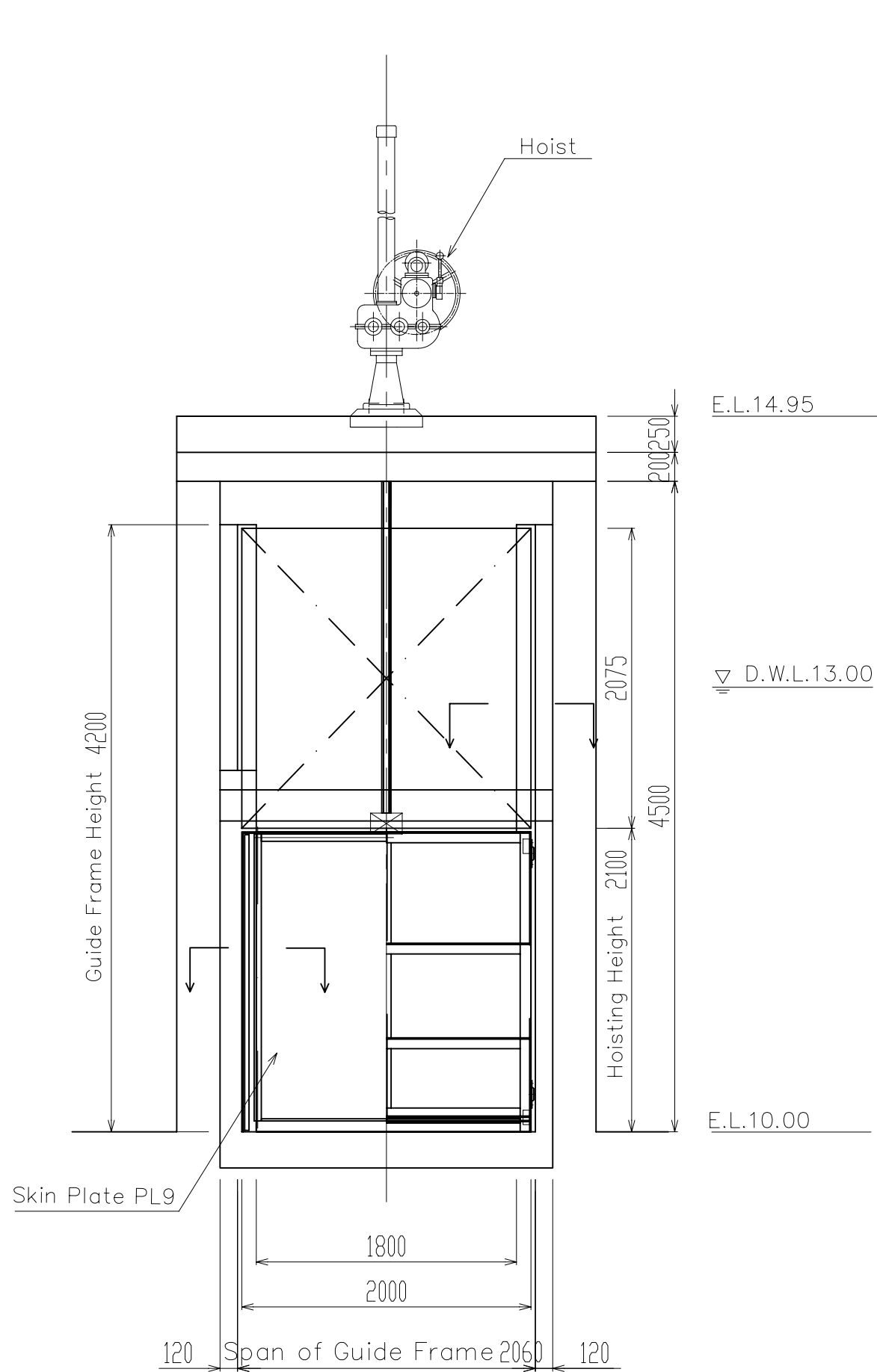
DESIGN ROAD SURFACE ELEVATION	9.888	9.80	9.80	9.80	9.80	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.48	10.88
GROUND SURFACE ELEVATION OF PADDY FIELD	9.126	9.201	9.227	9.244	9.240	9.227	9.318	9.233	10.074	9.817	10.197	8.538	9.980	10.319	10.288	
EXISTING ROAD SURFACE ELEVATION	9.781	9.621	9.605	9.595	9.574	9.589	9.312	10.966	10.451	10.265	10.635	8.993	10.071	10.641	10.275	10.397
ACCUMULATED DISTANCE	3.000	3.050	3.080	3.100	3.150	3.200	3.250	3.275	3.300	3.350	3.400	3.450	3.500	3.550	3.600	3.622
DISTANCE	50	40	30	20	50	50	50	25	25	50	50	50	50	50	50	50
STATION NO.	3+000	3+050	3+080	3+100	3+150	3+200	3+250	3+275	3+300	3+350	3+400	3+450	3+500	3+550	3+600	3+622

Note: Ditches crossing O&M Road for irrigation/drainage shall be replaced with concrete pipes.

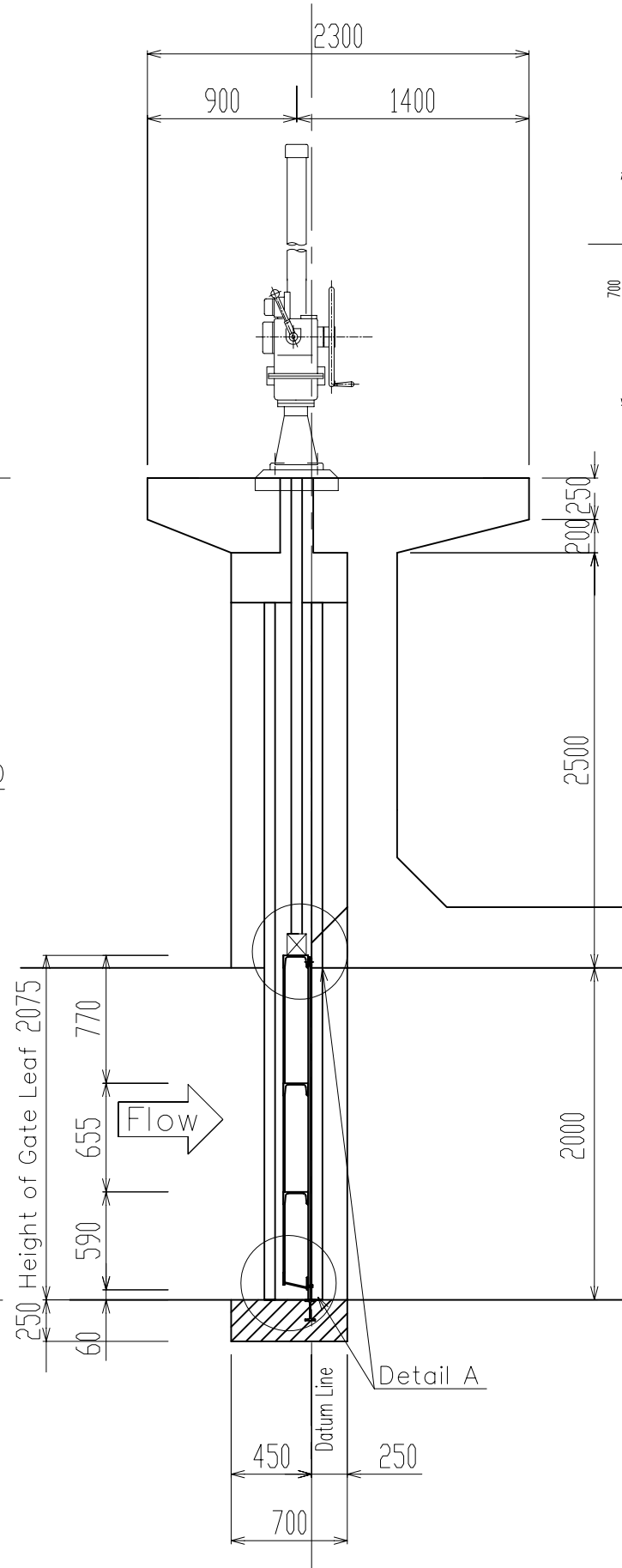
C.P.: Concrete Pipe  
T.O.: Turn Out

THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING 灌漑施設 二次用水路維持管理道路縦断図(No.3)(2/2)			
DATE		DRAWING NO.	4-29
NIPPON KOEI CO., LTD., JAPAN			

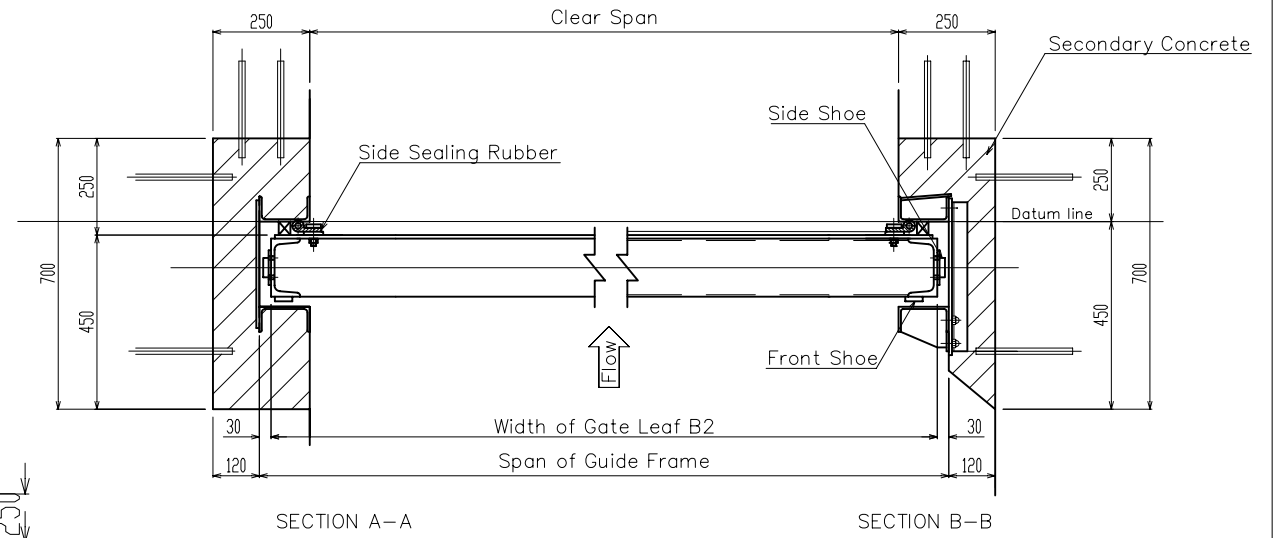
# GATE FOR INTAKE STRUCTURE



FRONT VIEW  
S=1/40



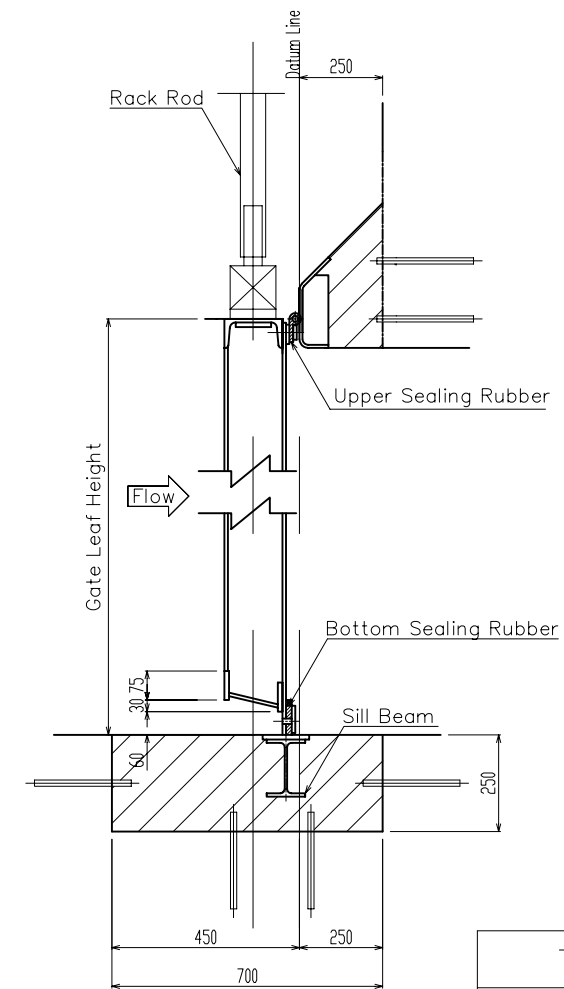
SIDE VIEW  
S=1/40



SECTION A-A

SECTION B-B

DETAIL OF SIDE WATER SEALING  
S=1/20

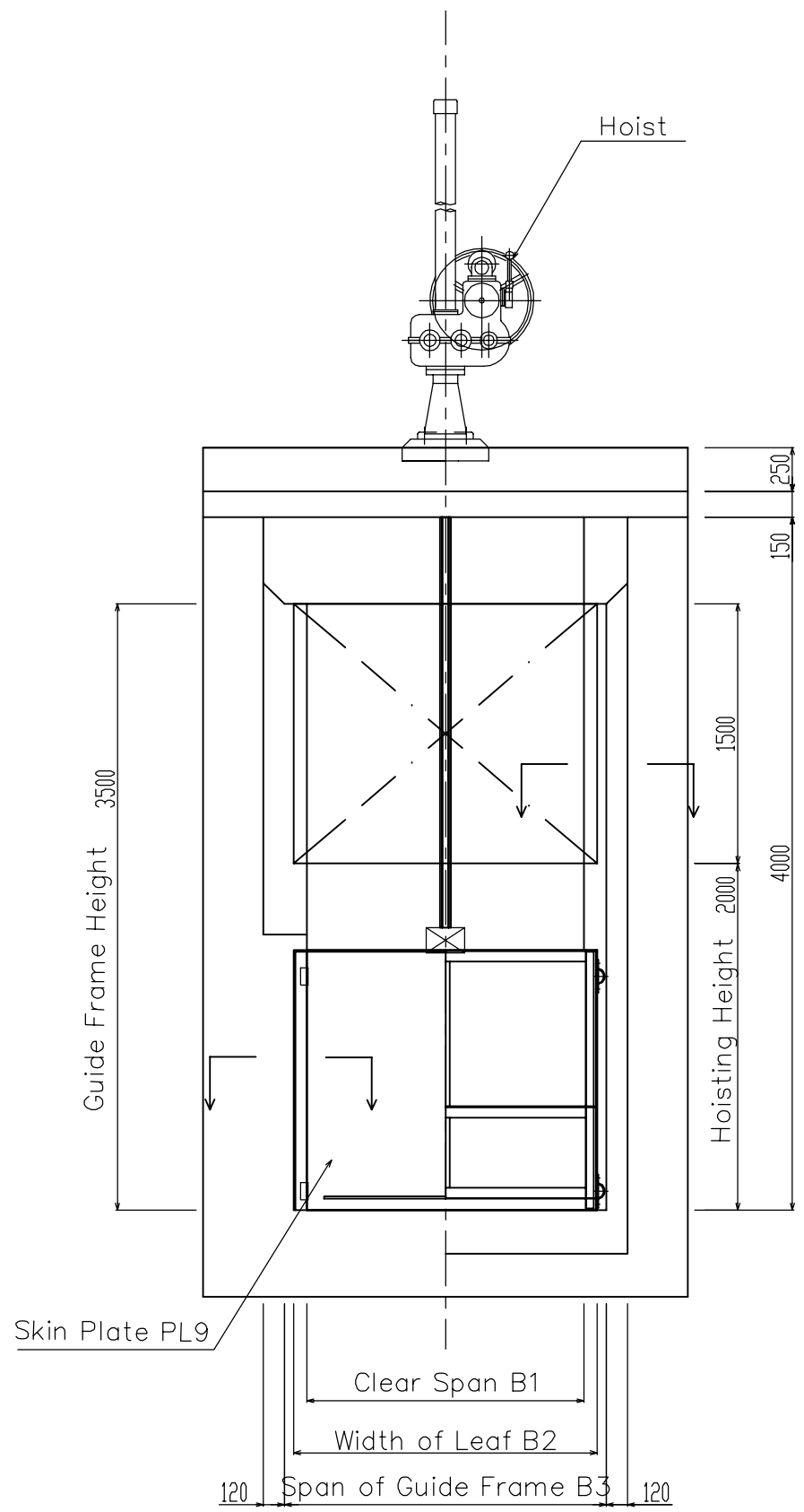


DETAIL A  
S=1/20

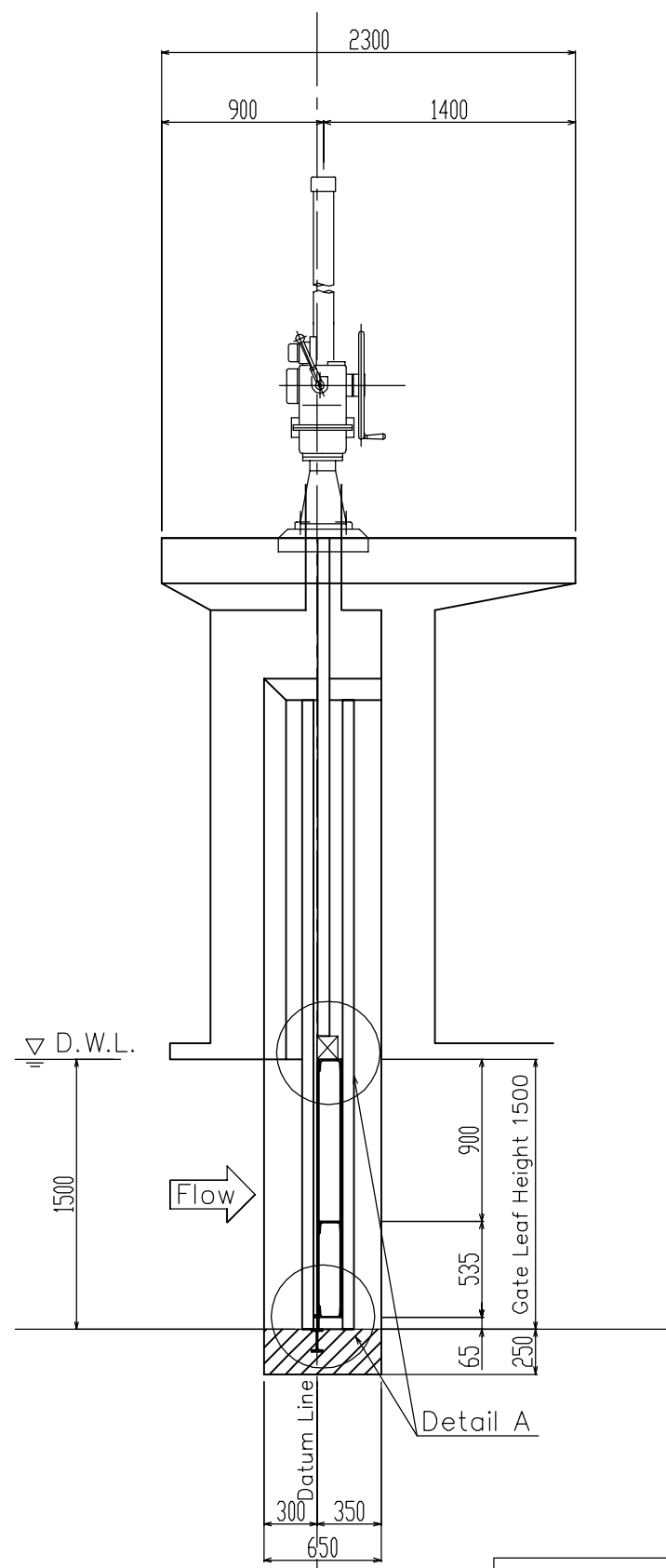
THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING 灌漑施設 取水ゲート詳細図			
DATE		DRAWING NO.	4-30
NIPPON KOEI CO., LTD., JAPAN			



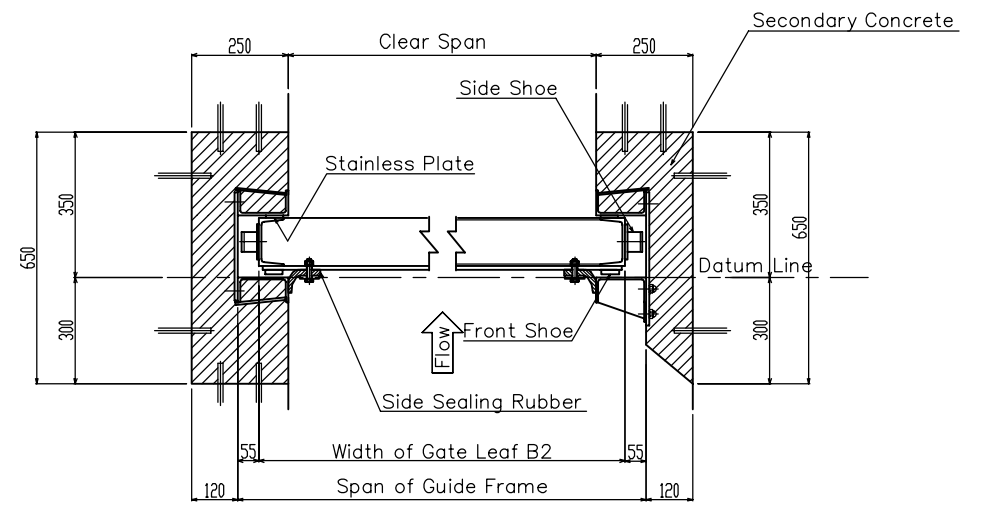
# GATES FOR CHECK AND END STRUCTURES



FRONT VIEW  
S=1/40

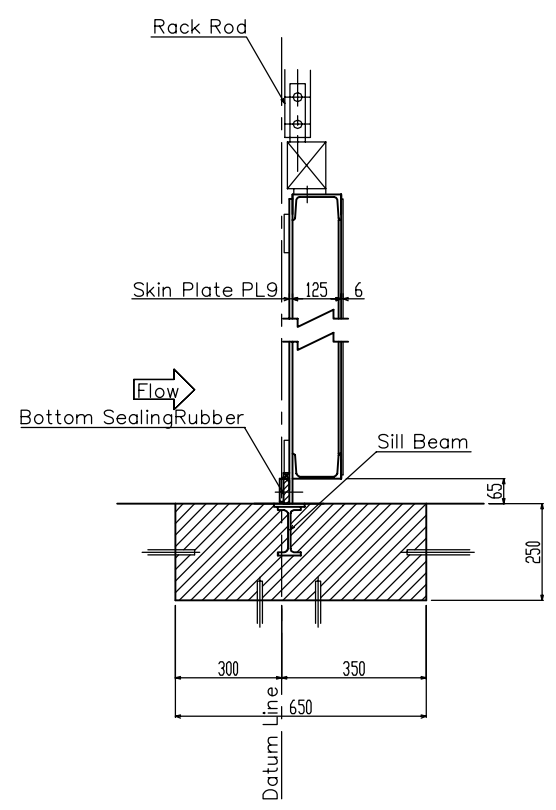


SIDE VIEW  
S=1/40



SECTION A-A SECTION B-B

DETATIL OF SIDE WATER SEALING  
S=1/20

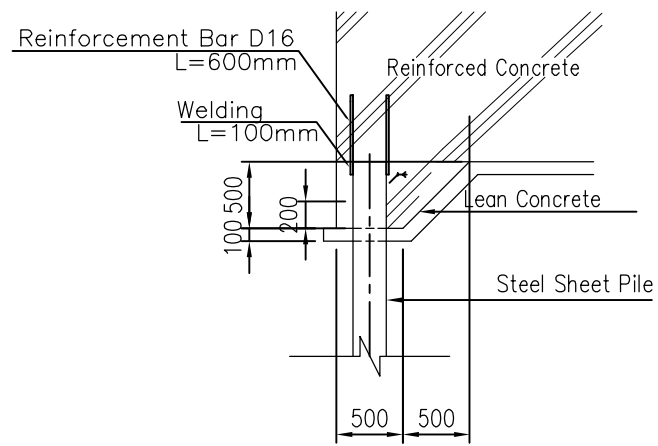


DETAIL A  
S=1/20

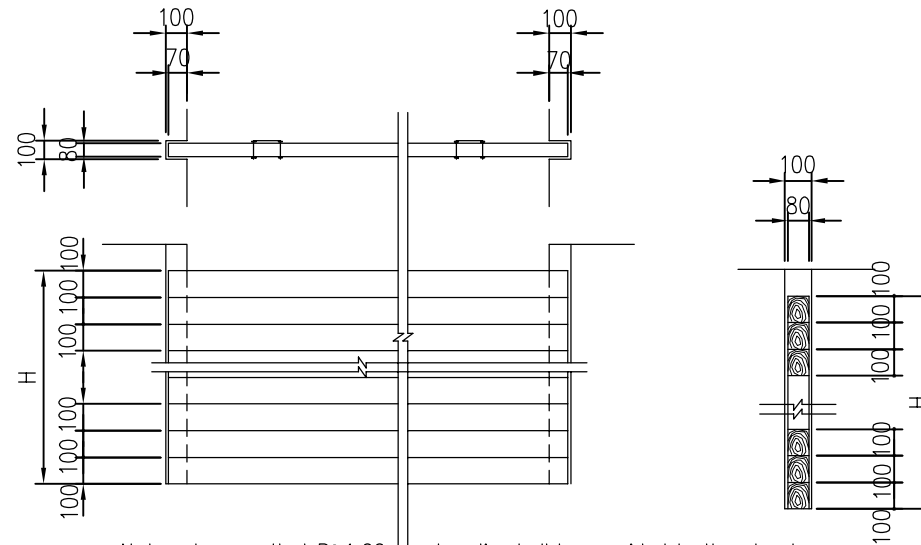
Structure Name	Quantity	B1	B2	B3
Check Structure No.1	2 sets	1600	1750	1860
Check Structure No.2	2 sets	1200	1340	1460
End Structure	2 sets	1000	1140	1260

THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING 灌漑施設 水位調整水門ゲート詳細図			
DATE		DRAWING NO.	4-31
NIPPON KOEI CO., LTD., JAPAN			

# MISCELLANEOUS WORKS

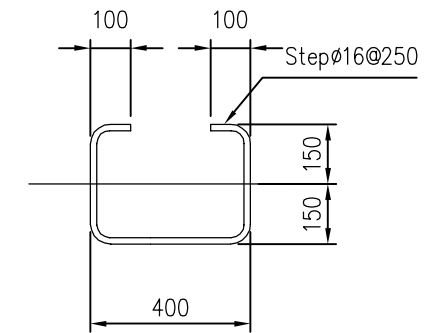


DETAIL OF HEAD CAP OF STEEL SHEET PILE  
SCALE A

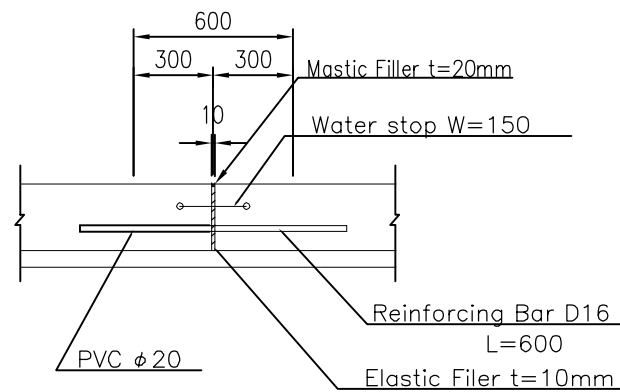


Note : In case that  $B \geq 1.00m$ , a handle shall be provided to the stop log

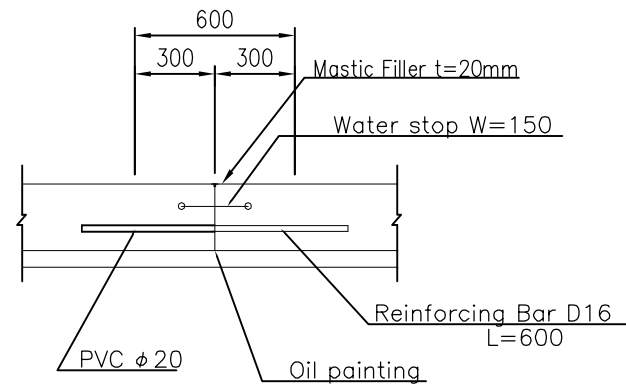
STOP LOG  
NOT TO SCALE



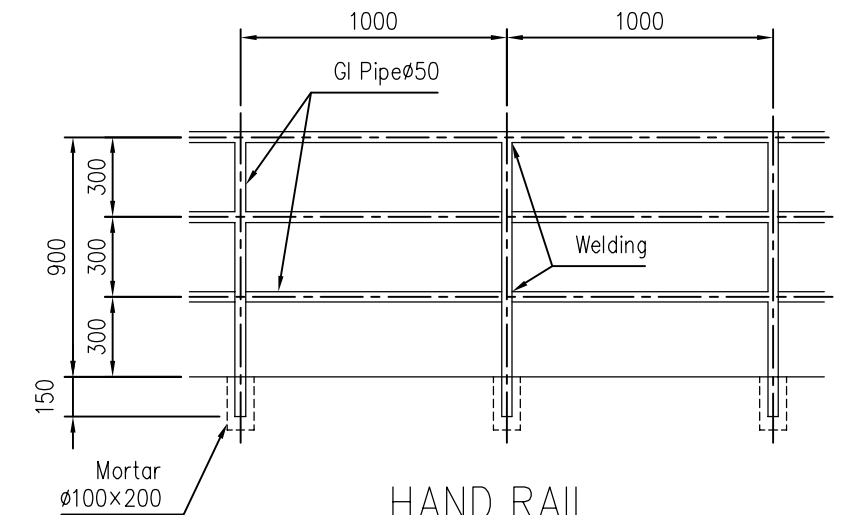
DETAIL OF STEP  
SCALE C



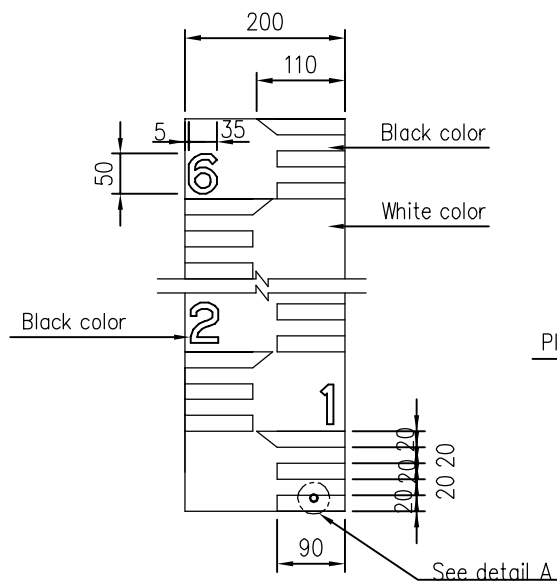
EXPANTION JOINT  
SCALE B



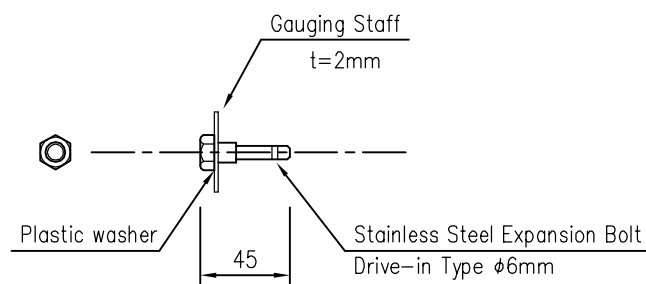
CONTRACTION JOINT  
SCALE B



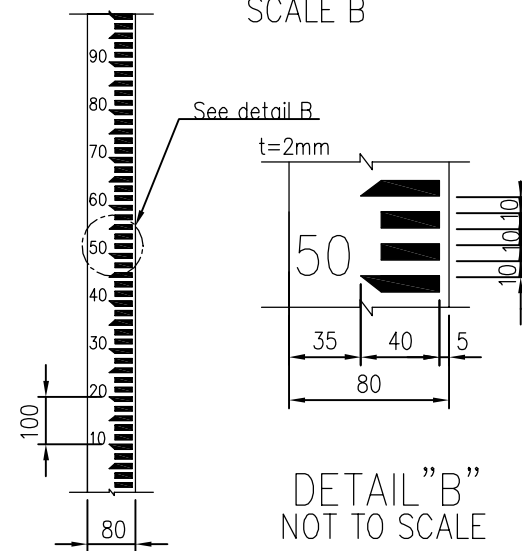
HAND RAIL  
SCALE B



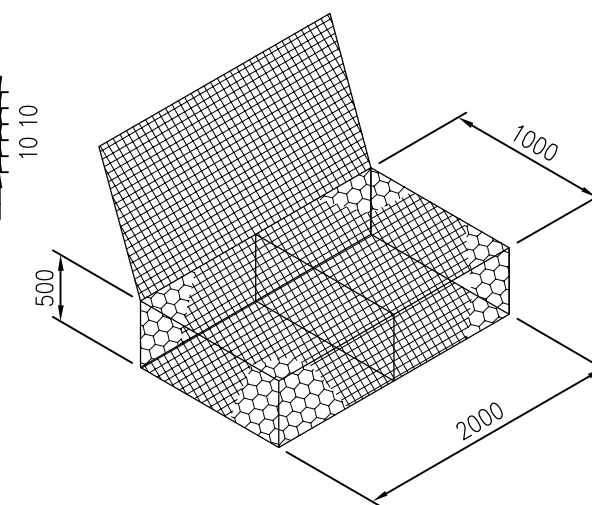
STAFF GAUGE TYPE A  
NOT TO SCALE



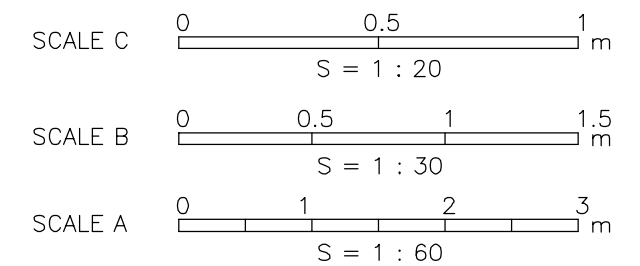
DETAIL "A"  
NOT TO SCALE



STAFF GAUGE TYPE B  
NOT TO SCALE



GABION  
NOT TO SCALE



THE KINGDOM OF CAMBODIA			
THE PROJECT FOR THE REHABILITATION OF THE KANDAL STUNG IRRIGATION SYSTEM			
TITLE OF DRAWING 灌漑施設 雑工			
DATE		DRAWING NO.	4-32
NIPPON KOEI CO., LTD., JAPAN			