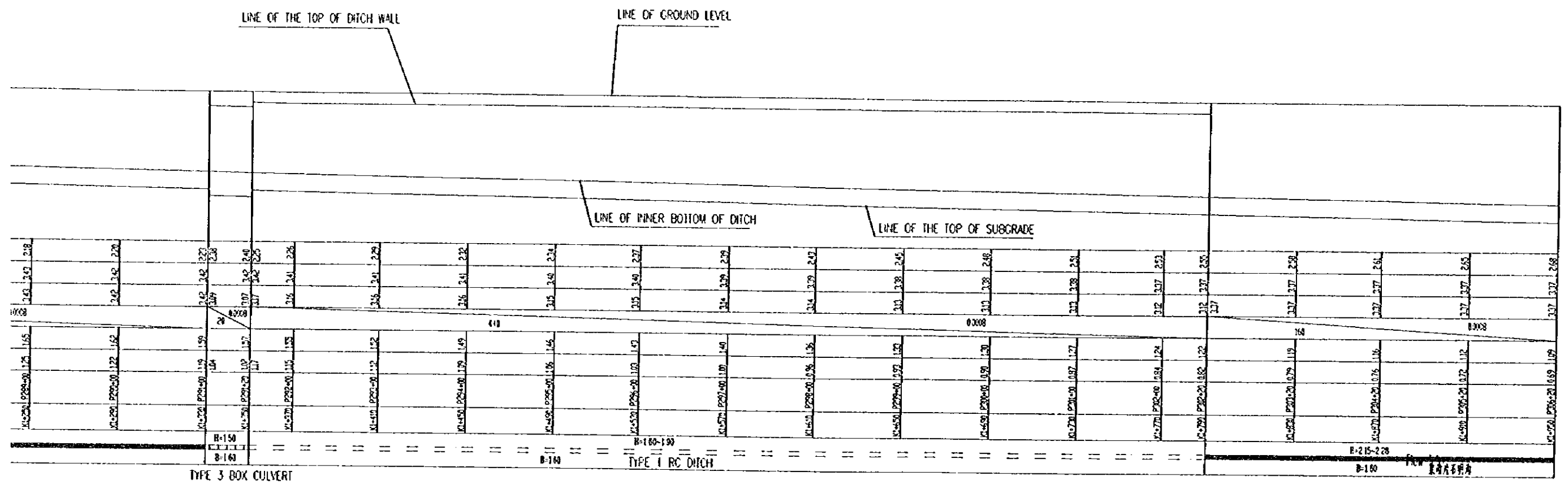


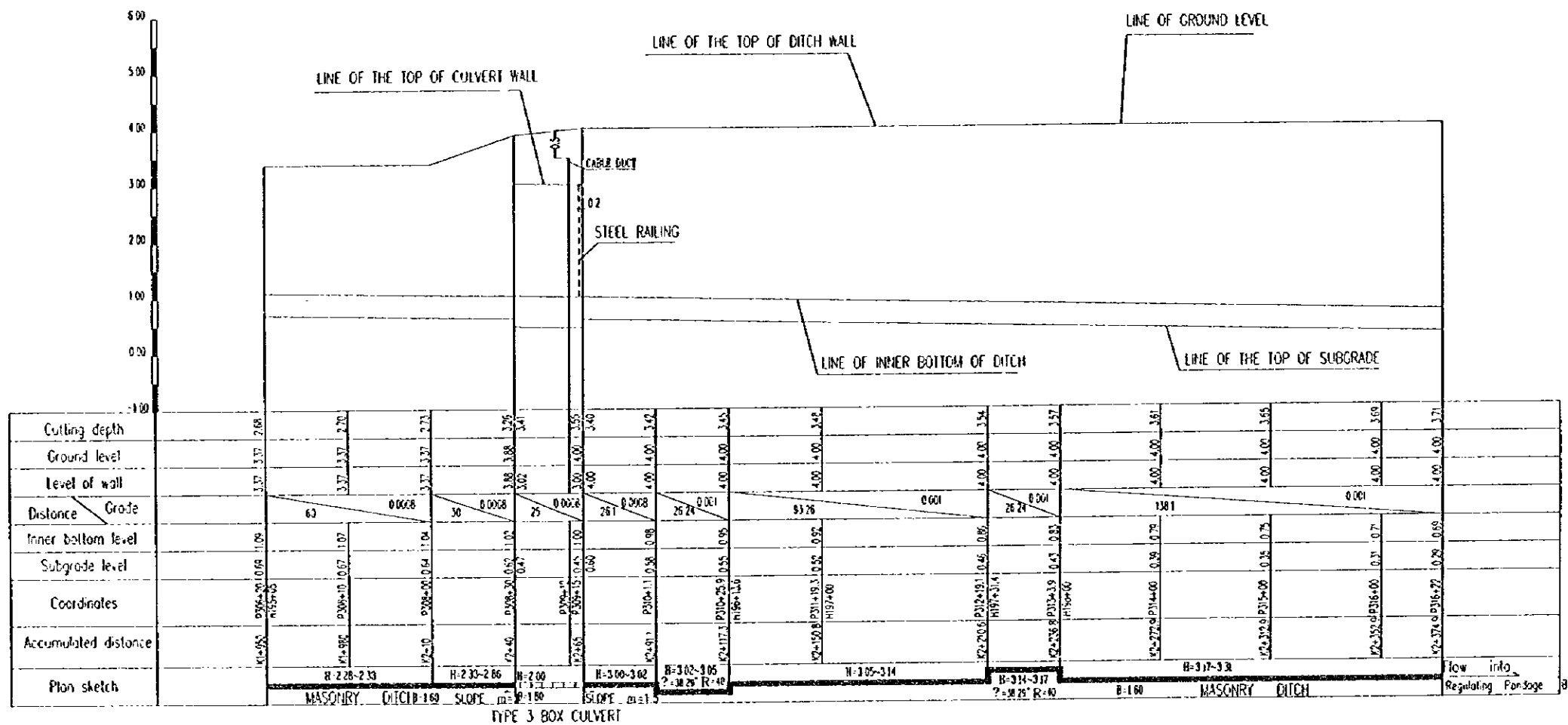
Cutting depth																						
Ground level																						
Level of wall	3.45	3.45	3.45	3.45	3.44	3.44	3.43	3.43	3.42	3.42	3.42	3.42	3.42	3.42	3.41	3.41	3.41	3.41	3.41	3.40	3.40	
Distance																						
Grade			3.4				0.008				0.008											
Inner bottom level																						
Subgrade level	1.88	1.88	1.88	1.88	1.78	1.75	1.69	1.65	1.62	1.59	1.57	1.55	1.52	1.49	1.46	1.44	1.43	1.43	1.43	1.43	1.43	
Coordinates	10+00	10+20	10+40	10+60	10+80	11+00	11+20	11+40	11+60	11+80	12+00	12+20	12+40	12+60	12+80	13+00	13+20	13+40	13+60	13+80	14+00	
Accumulated distance	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	
Plan sketch			MASONRY DITCH										TYPE 3 BOX CULVERT			TYPE 1 RC DITCH						

TYPE 3 BOX CULVERT

TYPE 1 RC DITCH



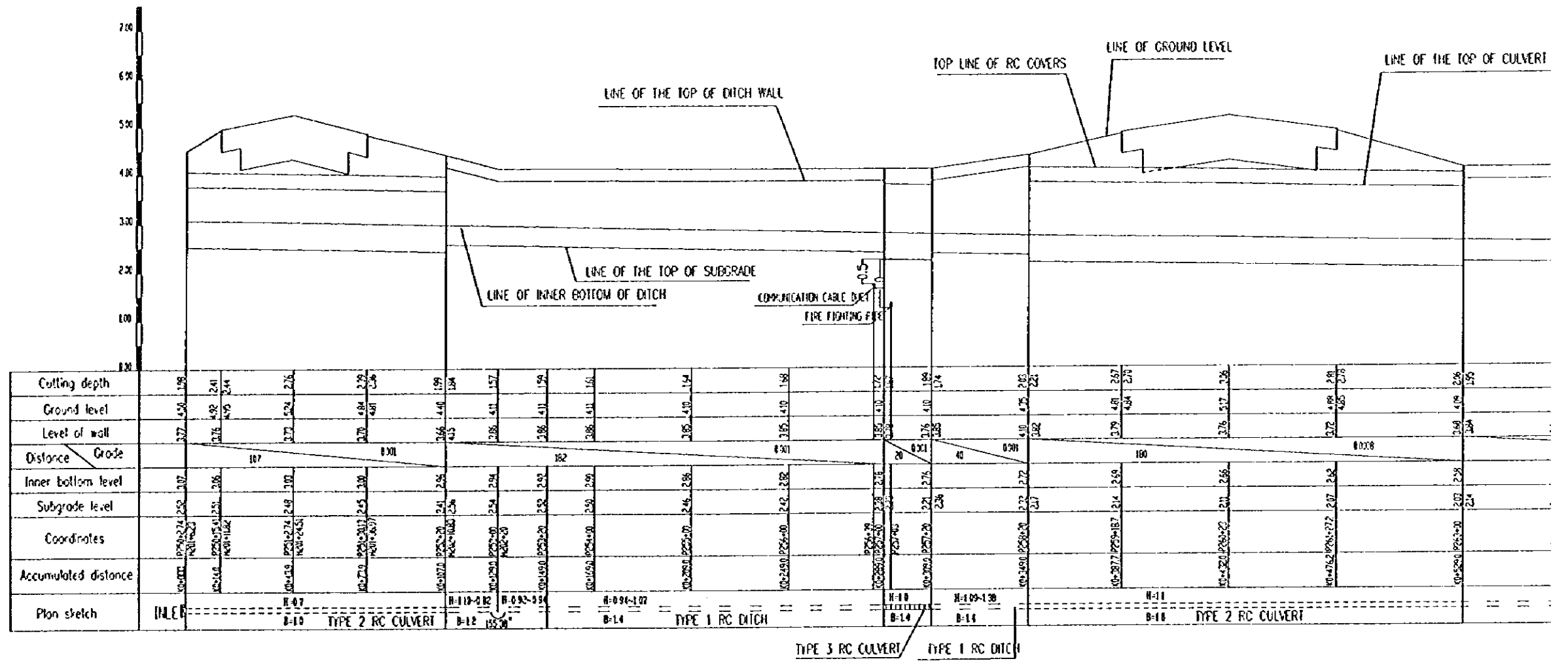
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE PROFILE (81)	
SCALE	H=1:1000 V=50 DWG1-05(21/36)
JAPAN INTERNATIONAL COOPERATION AGENCY	

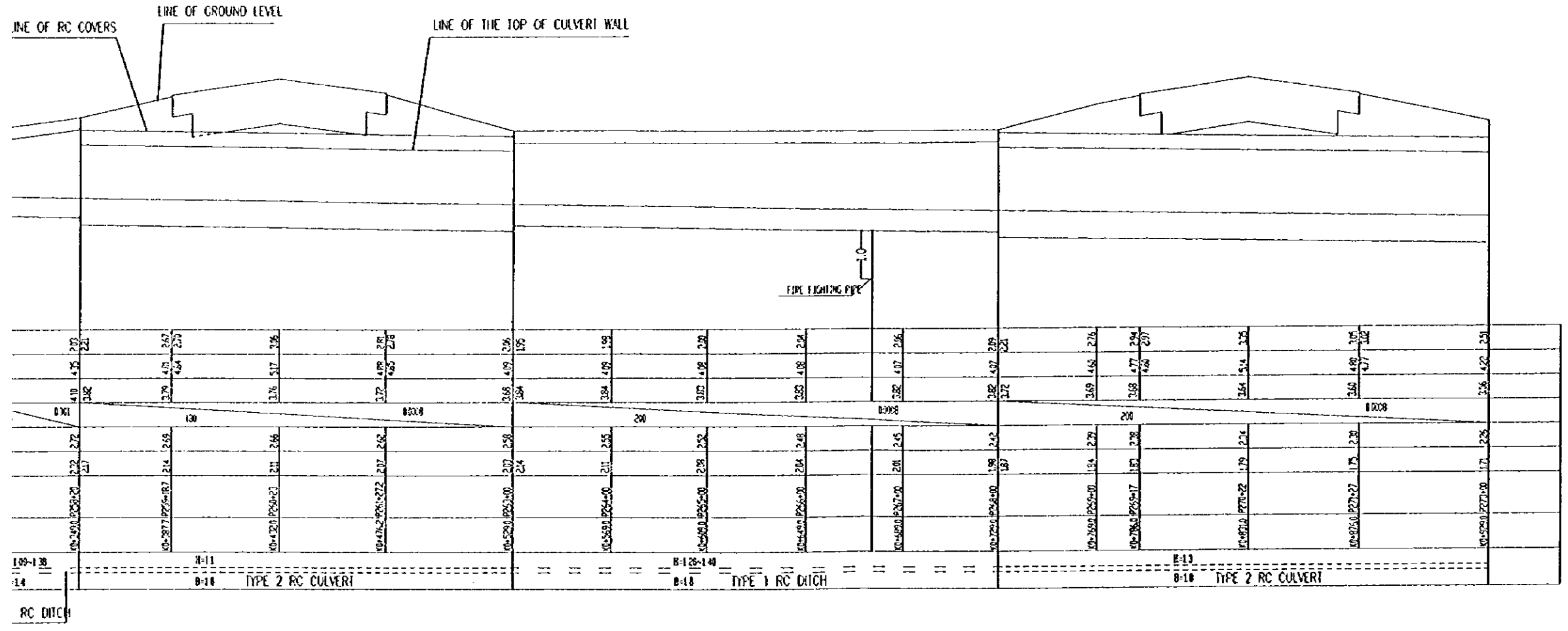


NOTE

1. Unit : m

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
STORM DRAINAGE PROFILE (B1)		
SCALE	H=1000 V=50	DWG1-05(22/36)
JAPAN INTERNATIONAL COOPERATION AGENCY		



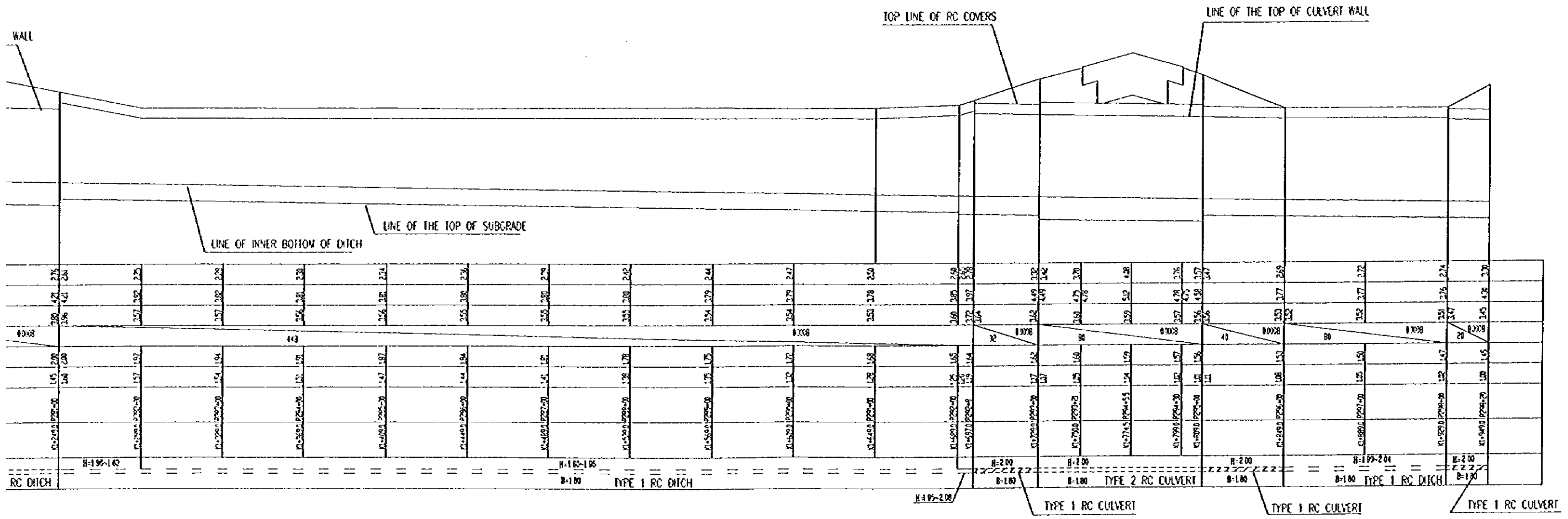


NOTE

1. Unit : m

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
STORM DRAINAGE PROFILE (B2)		
SCALE	H=1000 V=50	DWG1-05(23/36)
JAPAN INTERNATIONAL COOPERATION AGENCY		

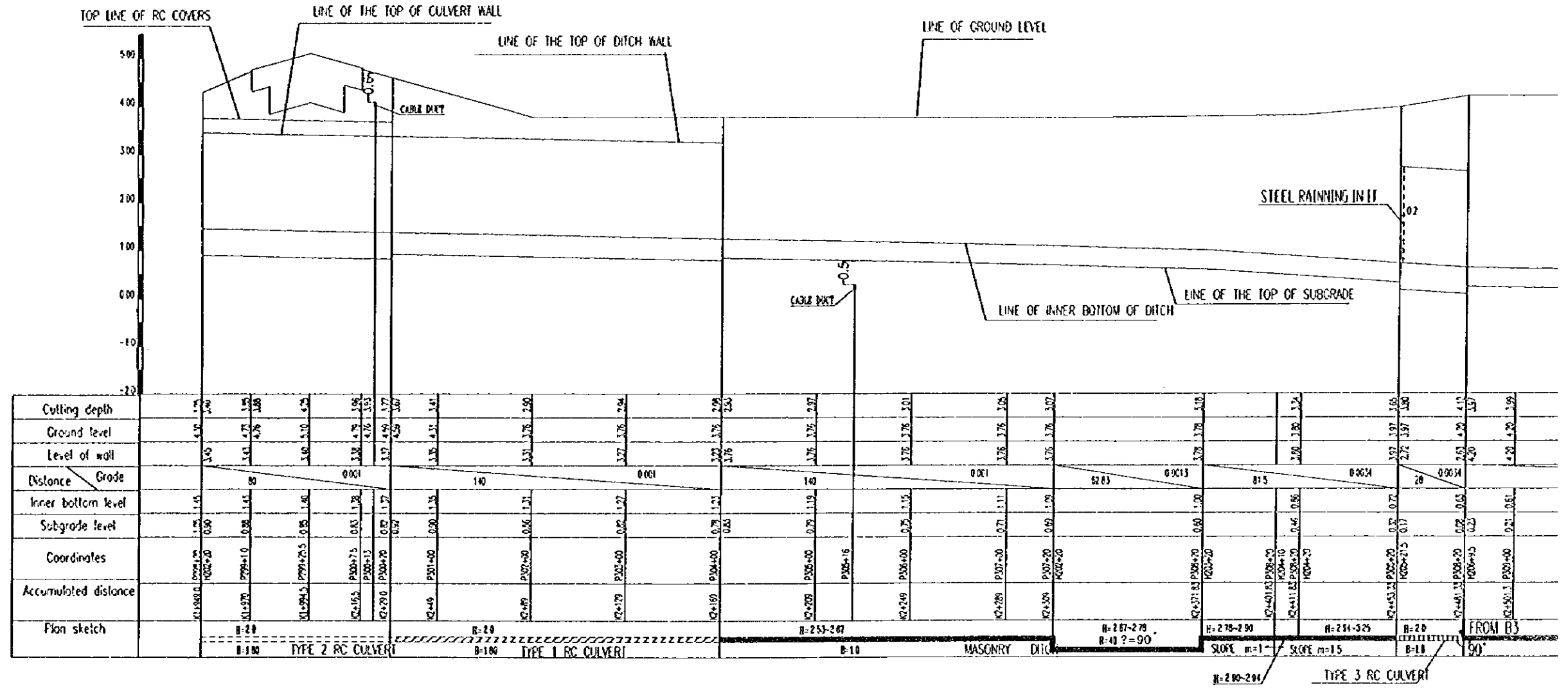




NOTE

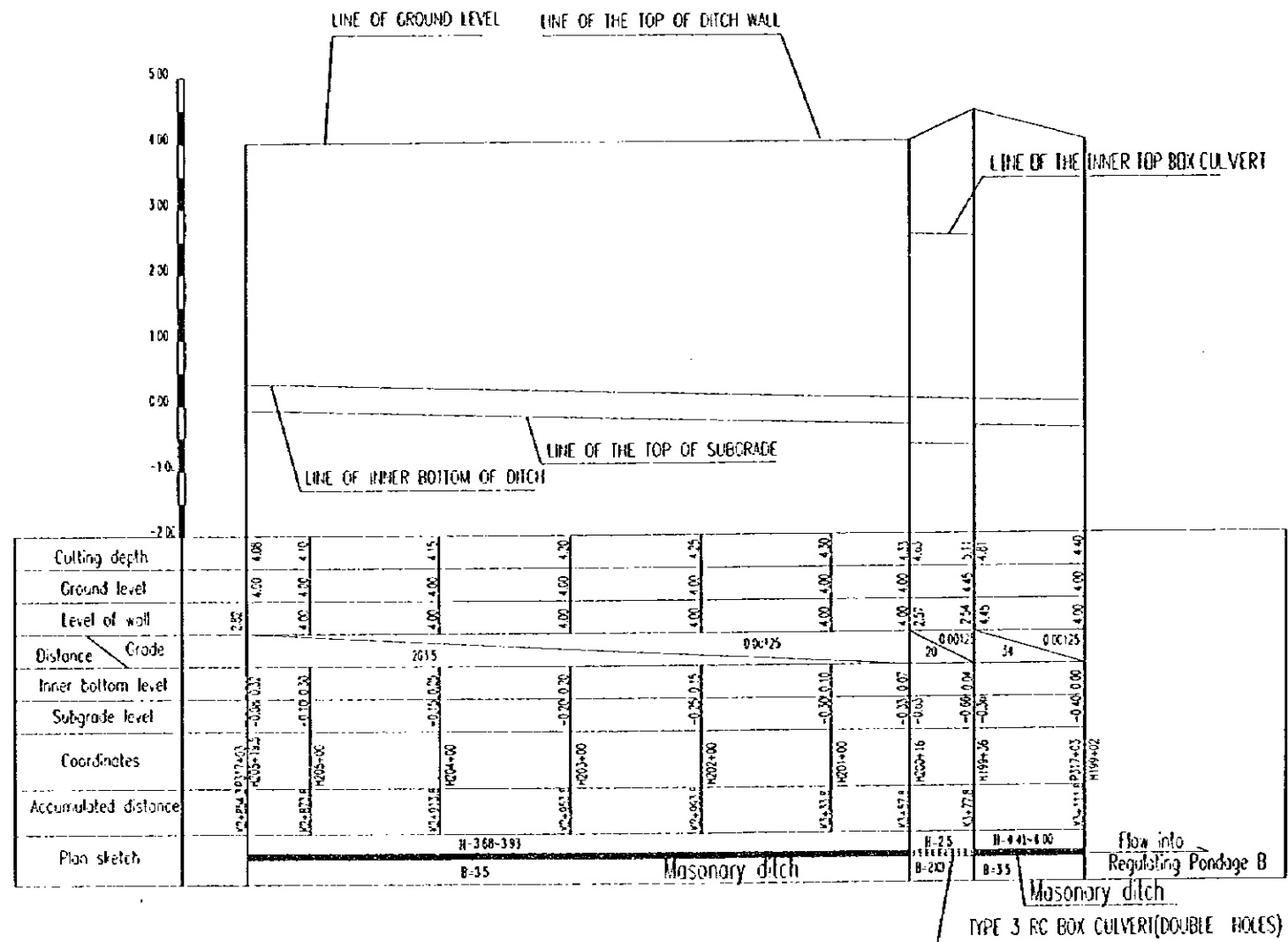
1. Unit : m

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997		
STORM DRAINAGE PROFILE (82)		
SCALE	H=1000	V=50
DWG1-05(24/36)		
JAPAN INTERNATIONAL COOPERATION AGENCY		



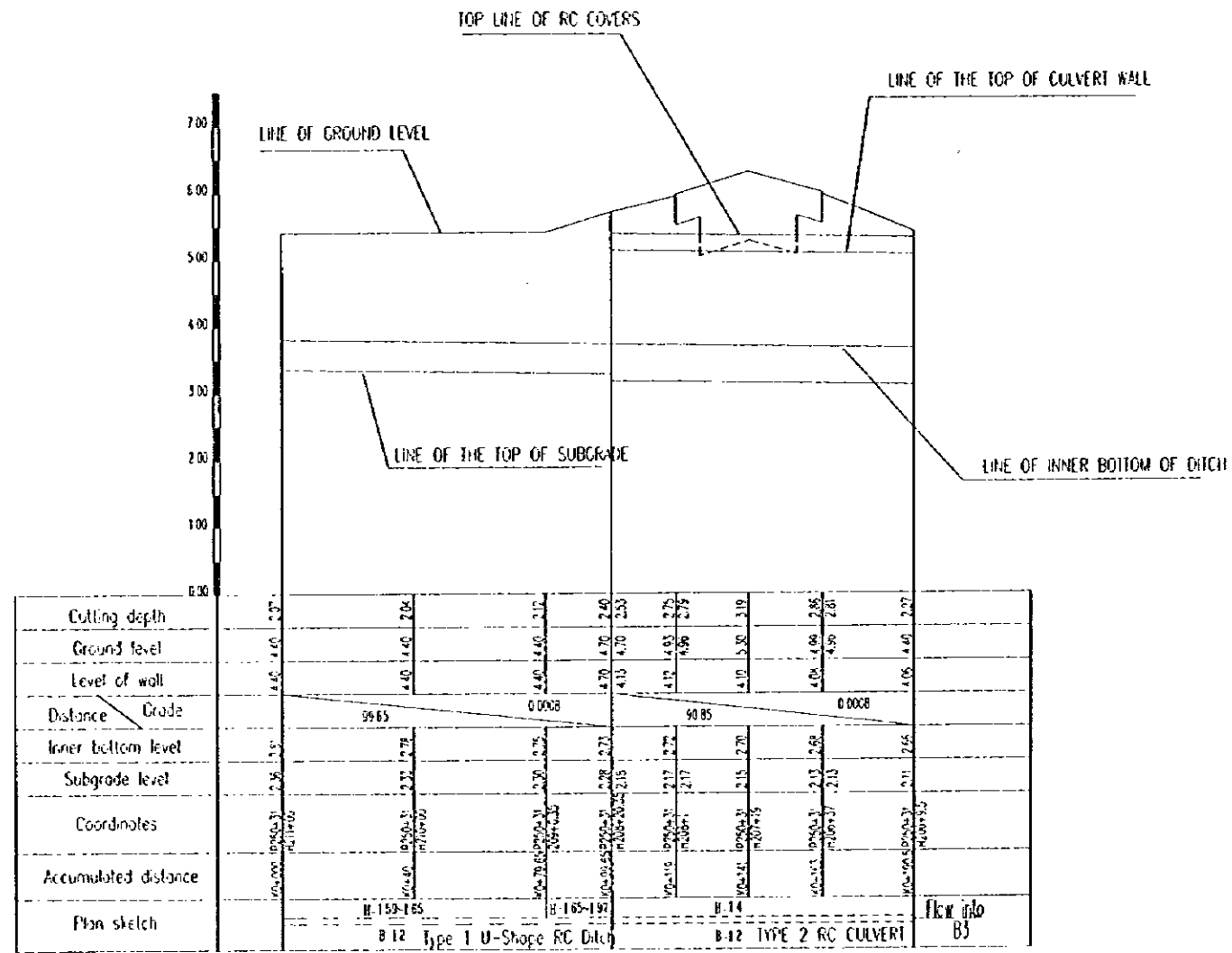






NOTE  
 1. Unit : m

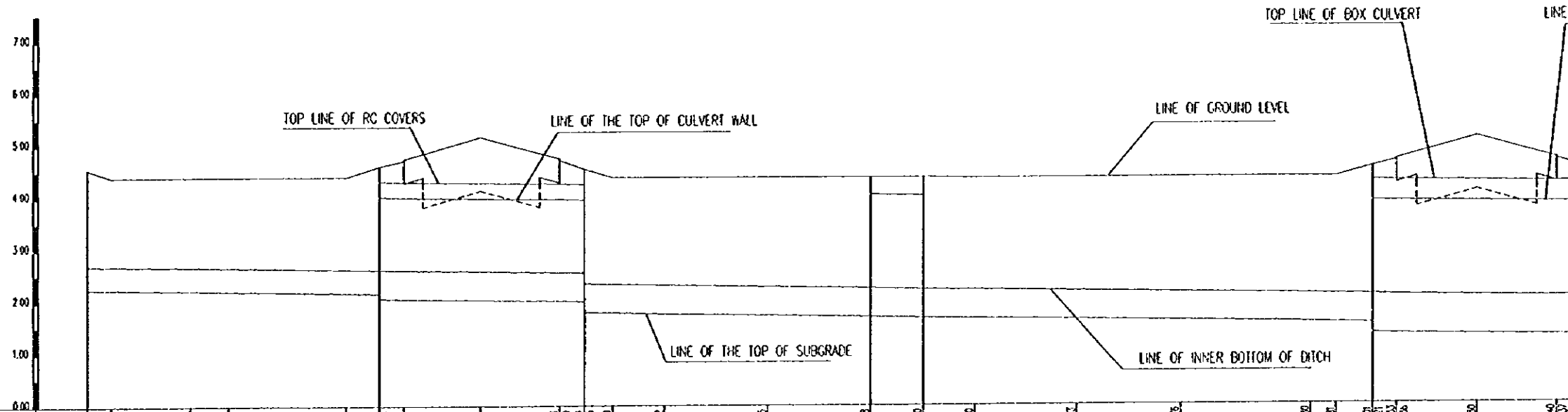
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997		
STORM DRAINAGE PROFILE (B2)		
SCALE	H=1000 V=50	DWG-DS(26/36)
JAPAN INTERNATIONAL COOPERATION AGENCY		



NOTE

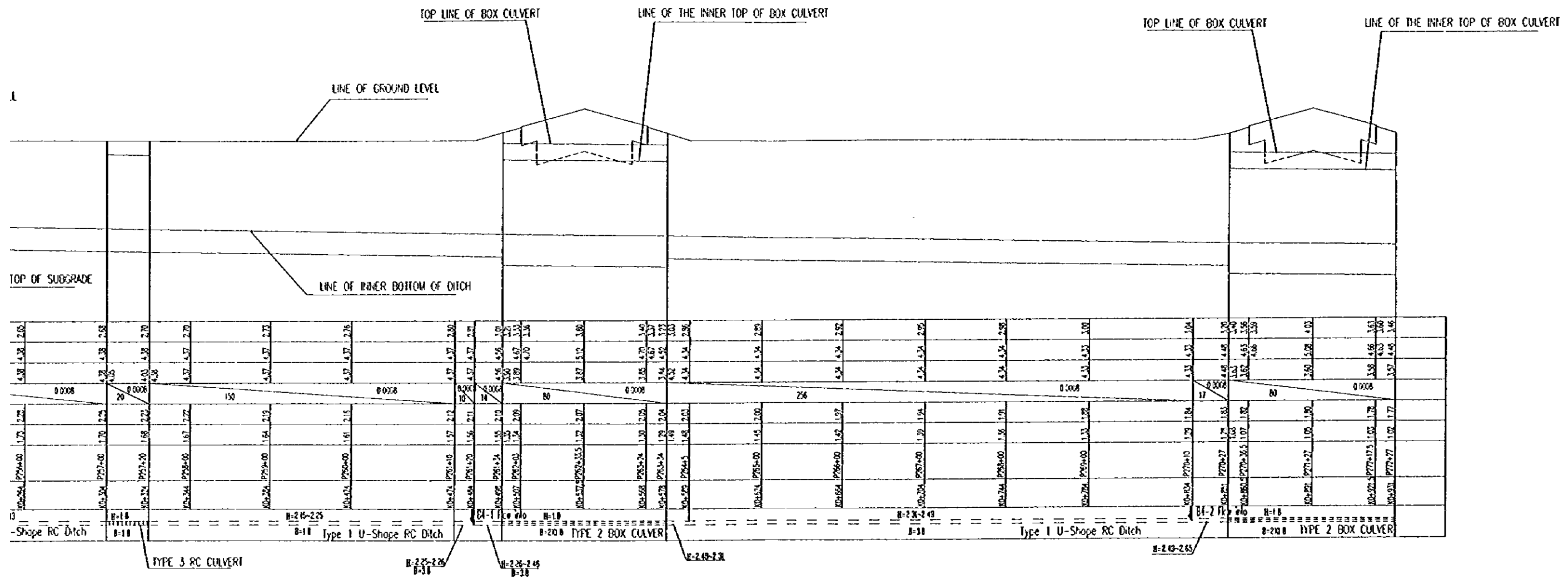
1 Unit : m

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUCONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1937	
STORM DRAINAGE PROFILE (83-1)		
SCALE	H=1000	V=50
		DWG-05(27/36)
JAPAN INTERNATIONAL COOPERATION AGENCY		



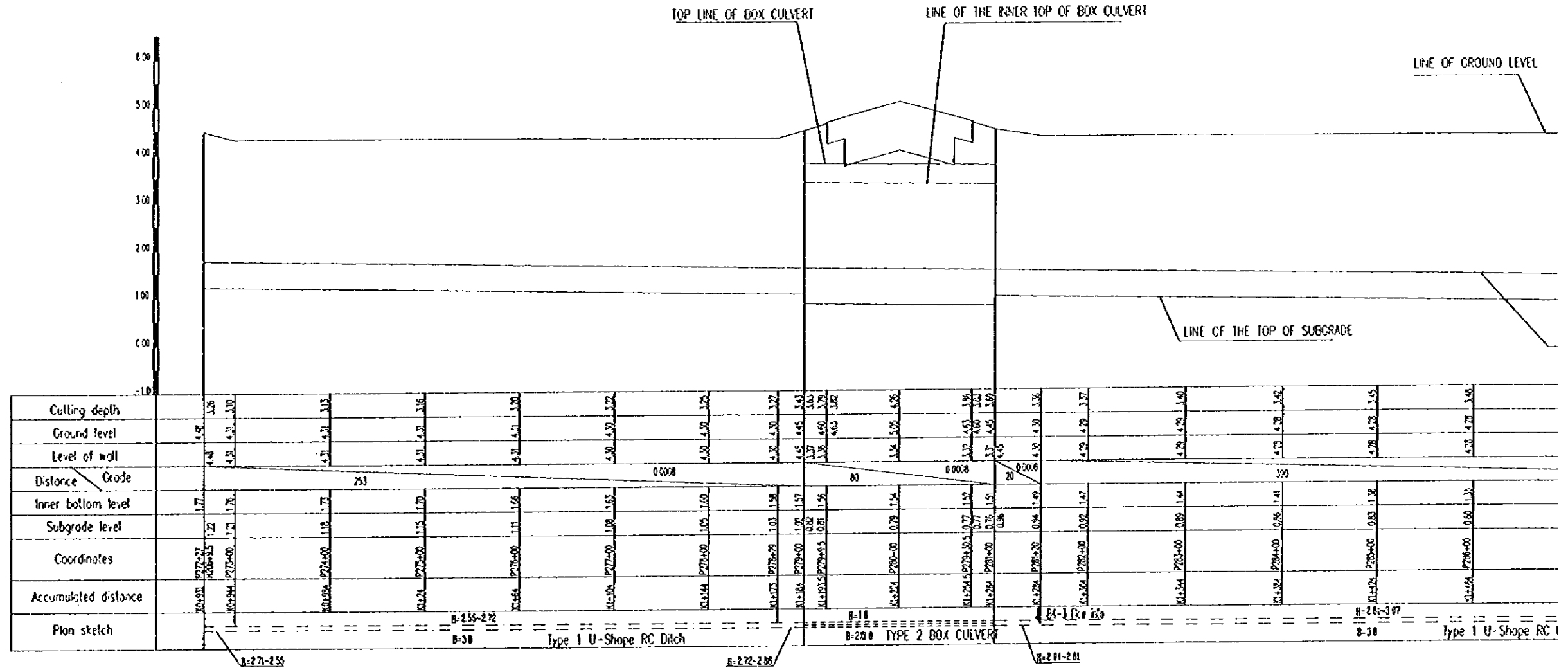
Stationing	Cutting depth	Ground level	Level of wall	Distance	Grade	Inner bottom level	Subgrade level	Coordinates	Accumulated distance	Plan sketch
0+00		4.35	4.40		0	2.70	2.25	104000	0	Type 1 U-Shape RC Ditch
0+25		4.40	4.40	40	0.0008	2.69	2.24	104025	40	Type 1 U-Shape RC Ditch
0+50		4.40	4.40	80	0.0008	2.67	2.22	104050	80	Type 1 U-Shape RC Ditch
0+75		4.40	4.40	120	0.0008	2.66	2.21	104075	120	Type 1 U-Shape RC Ditch
0+100		4.40	4.40	160	0.0008	2.62	2.17	104100	160	Type 1 U-Shape RC Ditch
0+125		4.60	4.60	200	0.0008	2.51	2.06	104125	200	Type 1 U-Shape RC Ditch
0+150		4.70	4.70	240	0.0008	2.35	1.90	104150	240	Type 1 U-Shape RC Ditch
0+175		4.75	4.75	280	0.0008	2.25	1.80	104175	280	Type 1 U-Shape RC Ditch
0+200		4.75	4.75	320	0.0008	2.13	1.68	104200	320	Type 1 U-Shape RC Ditch
0+225		4.80	4.80	360	0.0008	2.01	1.56	104225	360	Type 1 U-Shape RC Ditch
0+250		4.80	4.80	400	0.0008	1.90	1.45	104250	400	Type 1 U-Shape RC Ditch
0+275		4.80	4.80	440	0.0008	1.80	1.35	104275	440	Type 1 U-Shape RC Ditch
0+300		4.80	4.80	480	0.0008	1.70	1.25	104300	480	Type 1 U-Shape RC Ditch
0+325		4.80	4.80	520	0.0008	1.60	1.15	104325	520	Type 1 U-Shape RC Ditch
0+350		4.80	4.80	560	0.0008	1.50	1.05	104350	560	Type 1 U-Shape RC Ditch
0+375		4.80	4.80	600	0.0008	1.40	0.95	104375	600	Type 1 U-Shape RC Ditch
0+400		4.80	4.80	640	0.0008	1.30	0.85	104400	640	Type 1 U-Shape RC Ditch
0+425		4.80	4.80	680	0.0008	1.20	0.75	104425	680	Type 1 U-Shape RC Ditch
0+450		4.80	4.80	720	0.0008	1.10	0.65	104450	720	Type 1 U-Shape RC Ditch
0+475		4.80	4.80	760	0.0008	1.00	0.55	104475	760	Type 1 U-Shape RC Ditch
0+500		4.80	4.80	800	0.0008	0.90	0.45	104500	800	Type 1 U-Shape RC Ditch
0+525		4.80	4.80	840	0.0008	0.80	0.35	104525	840	Type 1 U-Shape RC Ditch
0+550		4.80	4.80	880	0.0008	0.70	0.25	104550	880	Type 1 U-Shape RC Ditch
0+575		4.80	4.80	920	0.0008	0.60	0.15	104575	920	Type 1 U-Shape RC Ditch
0+600		4.80	4.80	960	0.0008	0.50	0.05	104600	960	Type 1 U-Shape RC Ditch
0+625		4.80	4.80	1000	0.0008	0.40	0	104625	1000	Type 1 U-Shape RC Ditch

Vertical scale: 0.00, 1.00, 2.00, 3.00, 4.00, 5.00, 6.00, 7.00  
 Horizontal axis: Stationing from 0+00 to 0+625

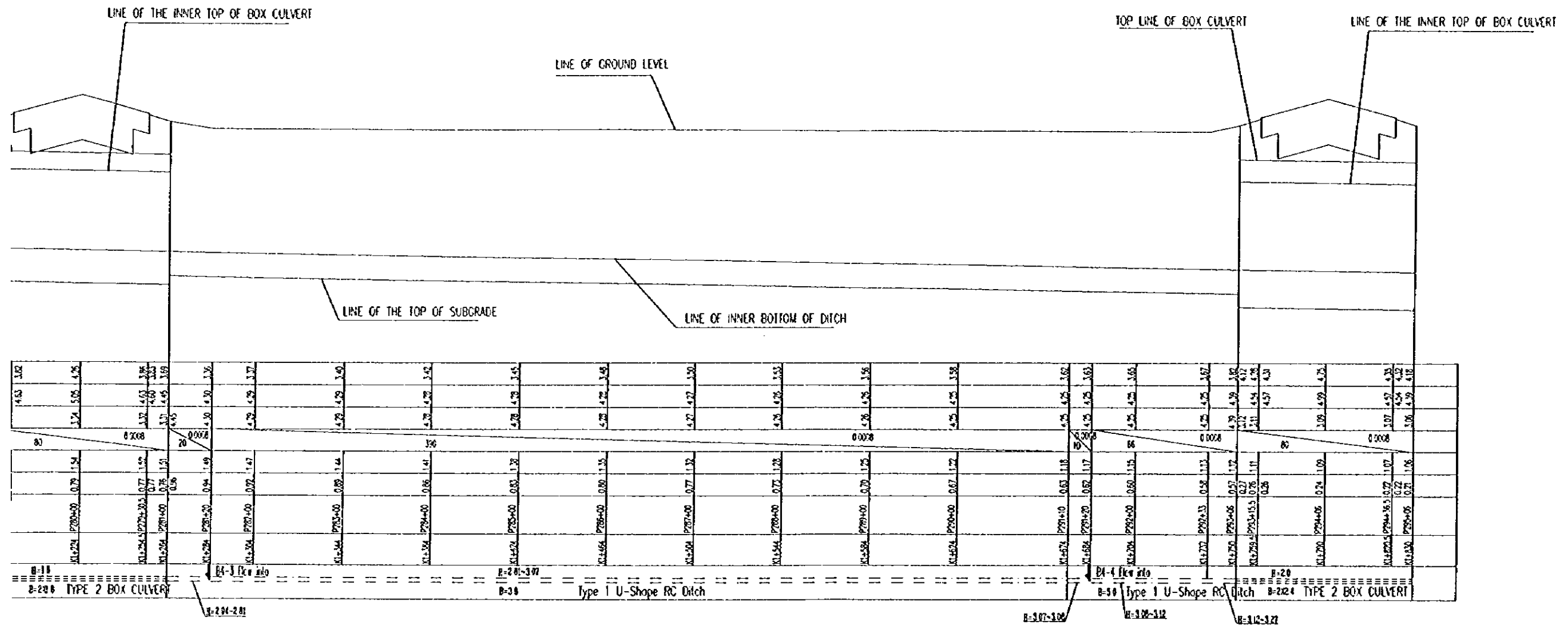


NOTE  
1. Unit : m

PEOPLE'S REPUBLIC OF CHINA			
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997	
STORM DRAINAGE PROFILE (B3)			
SCALE	H=1:100	V=5:0	CHG1-05(28/36)
JAPAN INTERNATIONAL COOPERATION AGENCY			

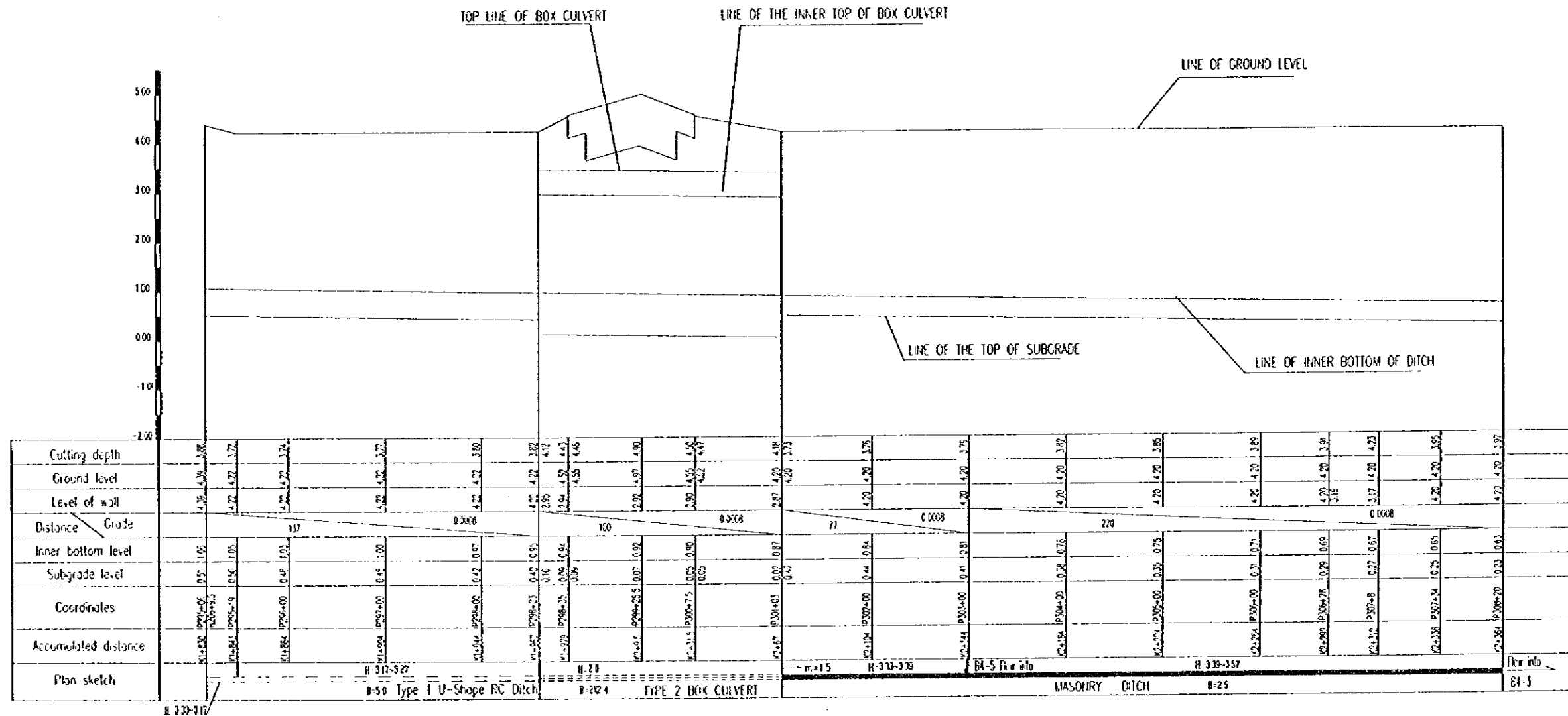


1:1



NOTE  
1. Unit : m

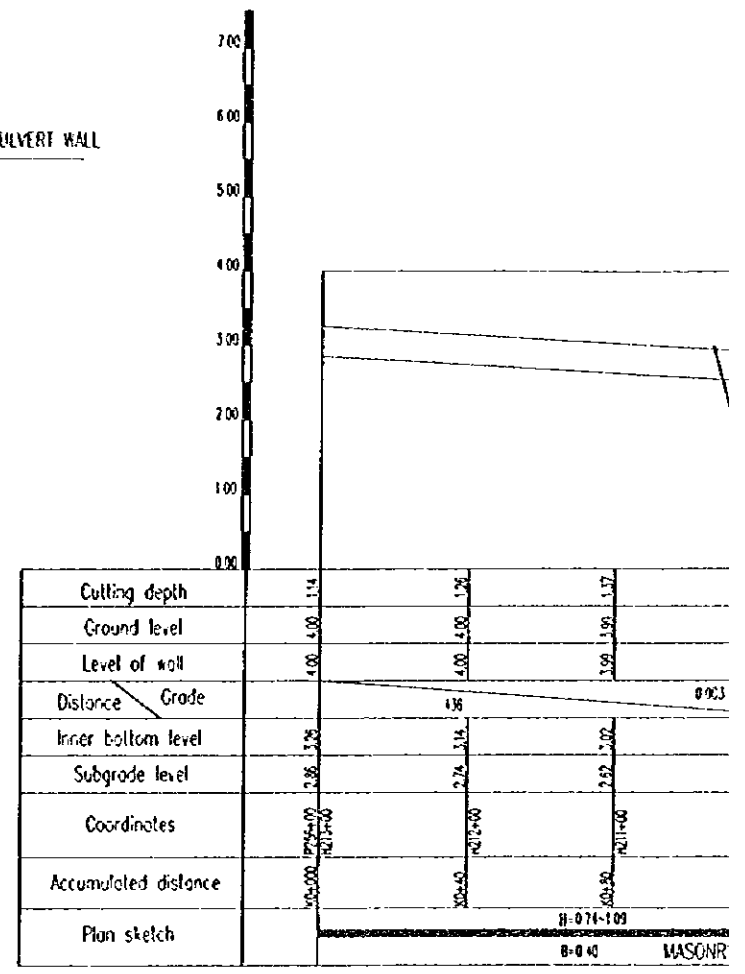
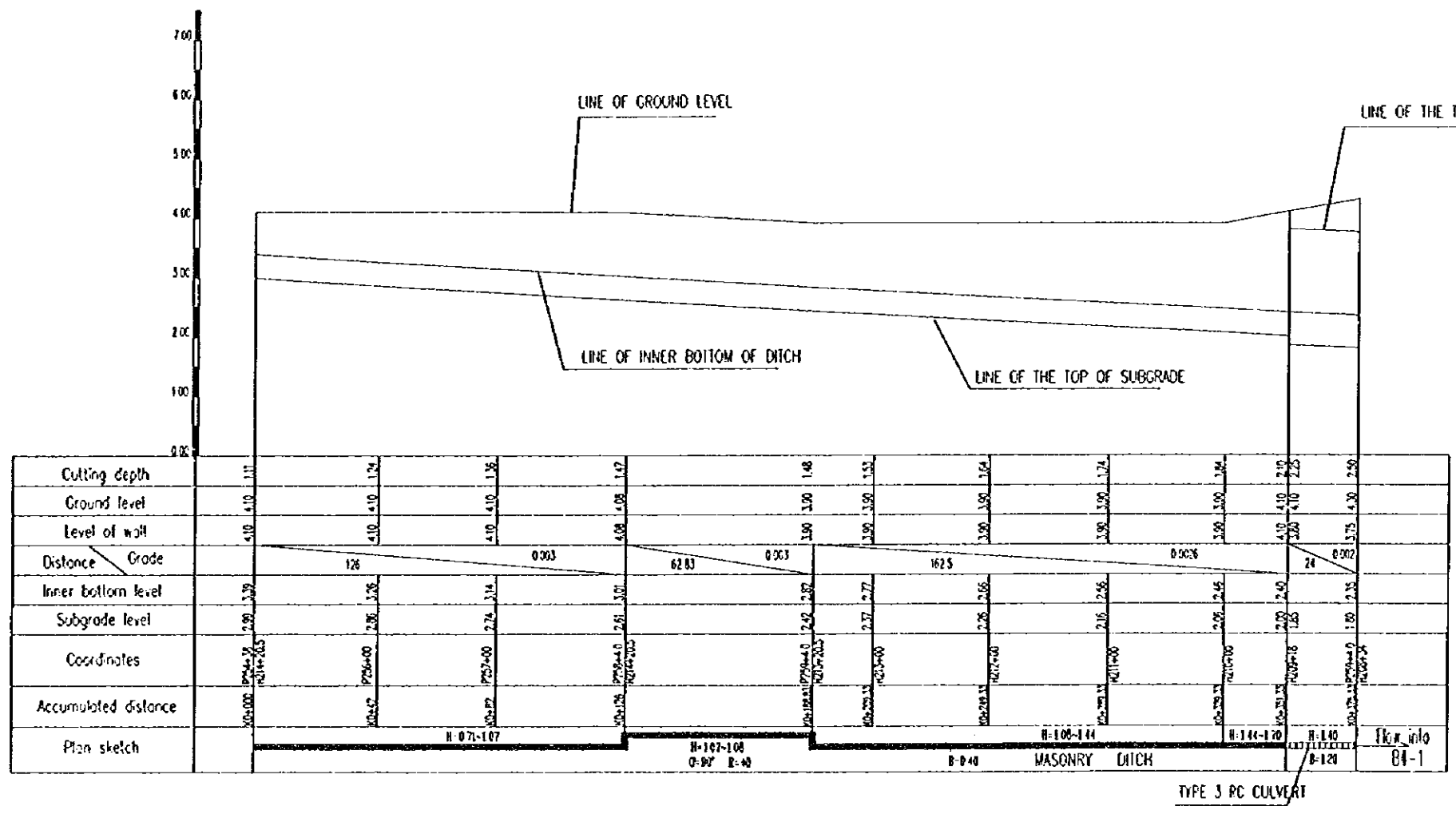
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997	
STORM DRAINAGE PROFILE (B3)		
SCALE	H=1000 Y=50	DWG1-05(29/36)
JAPAN INTERNATIONAL COOPERATION AGENCY		



NOTE  
1. Unit : m

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997	
STORM DRAINAGE PROFILE (B3)		
SCALE	H=1000	V=50
		DWG-I-05(30/36)
JAPAN INTERNATIONAL COOPERATION AGENCY		

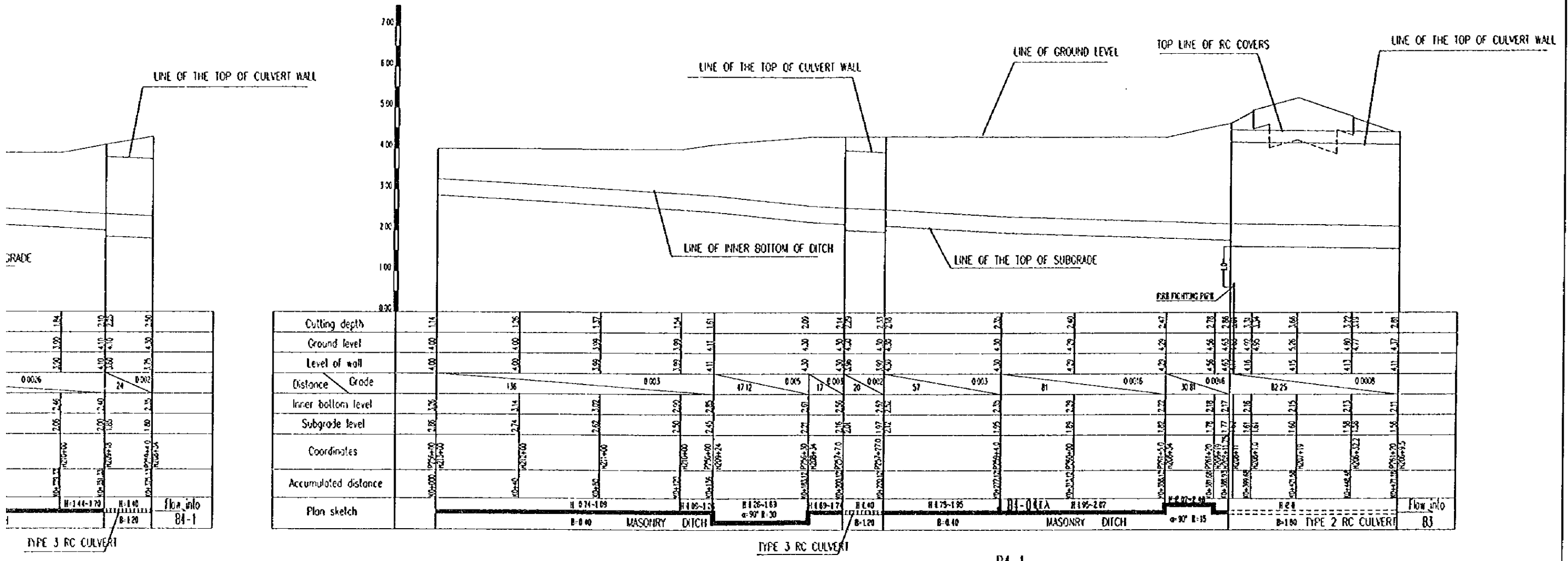




B4-0

TYPE 3 PC CULVERT

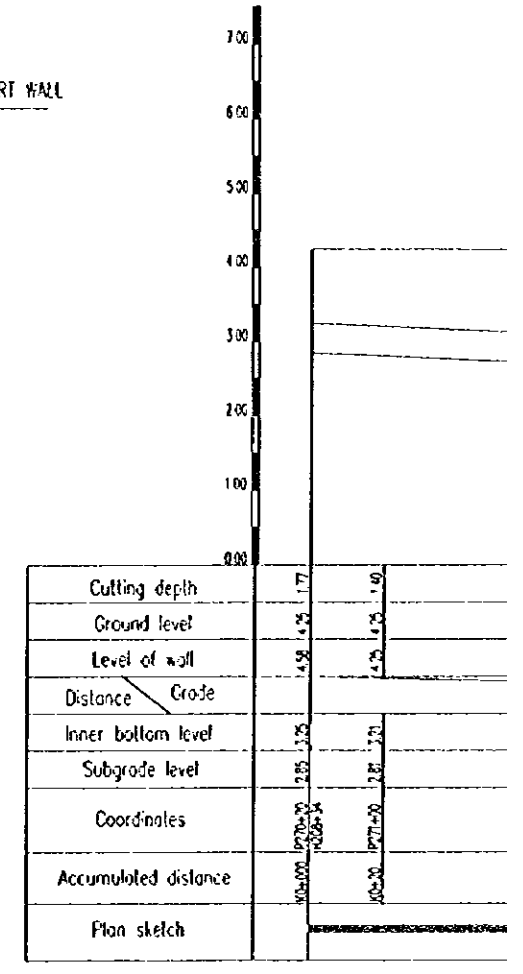
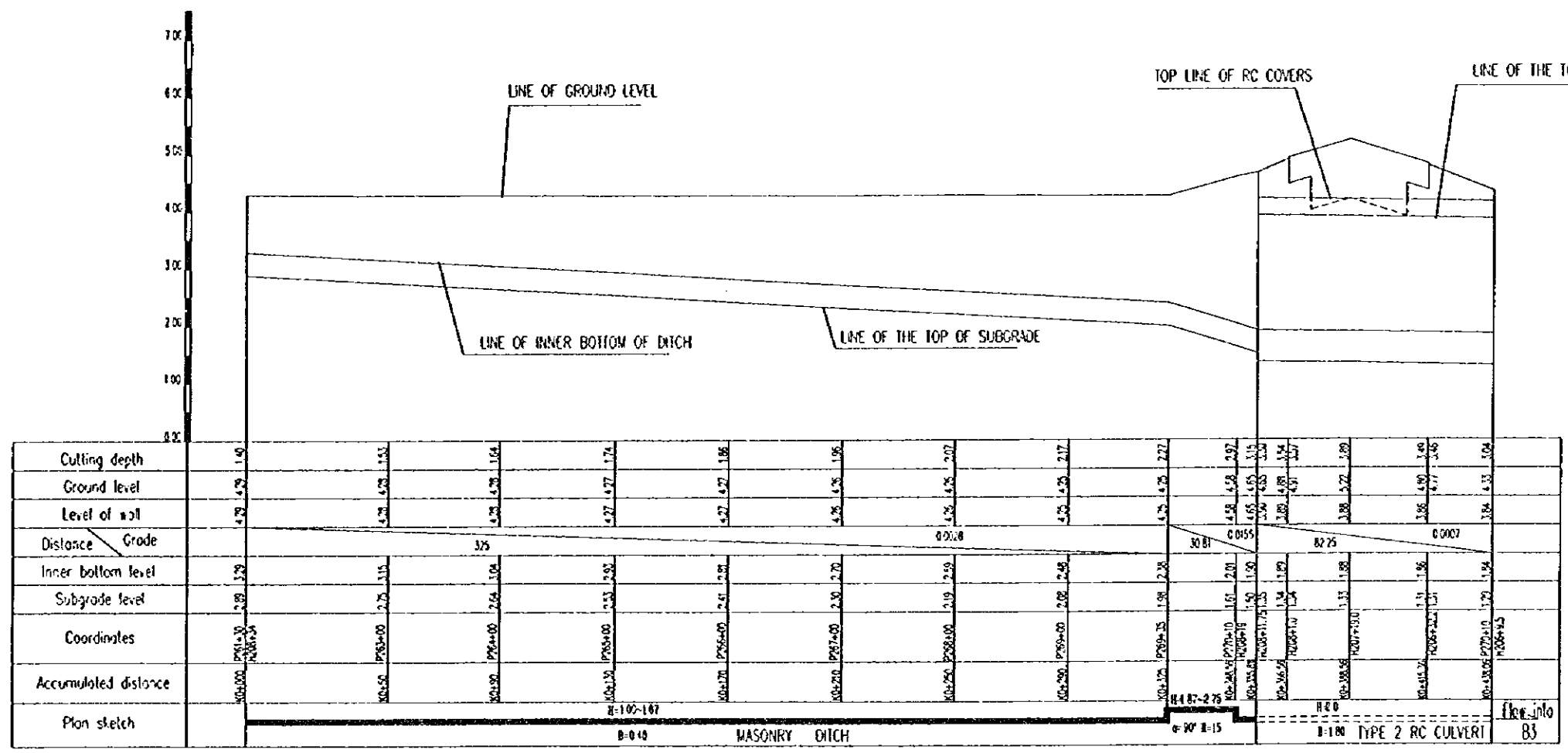
MASONR



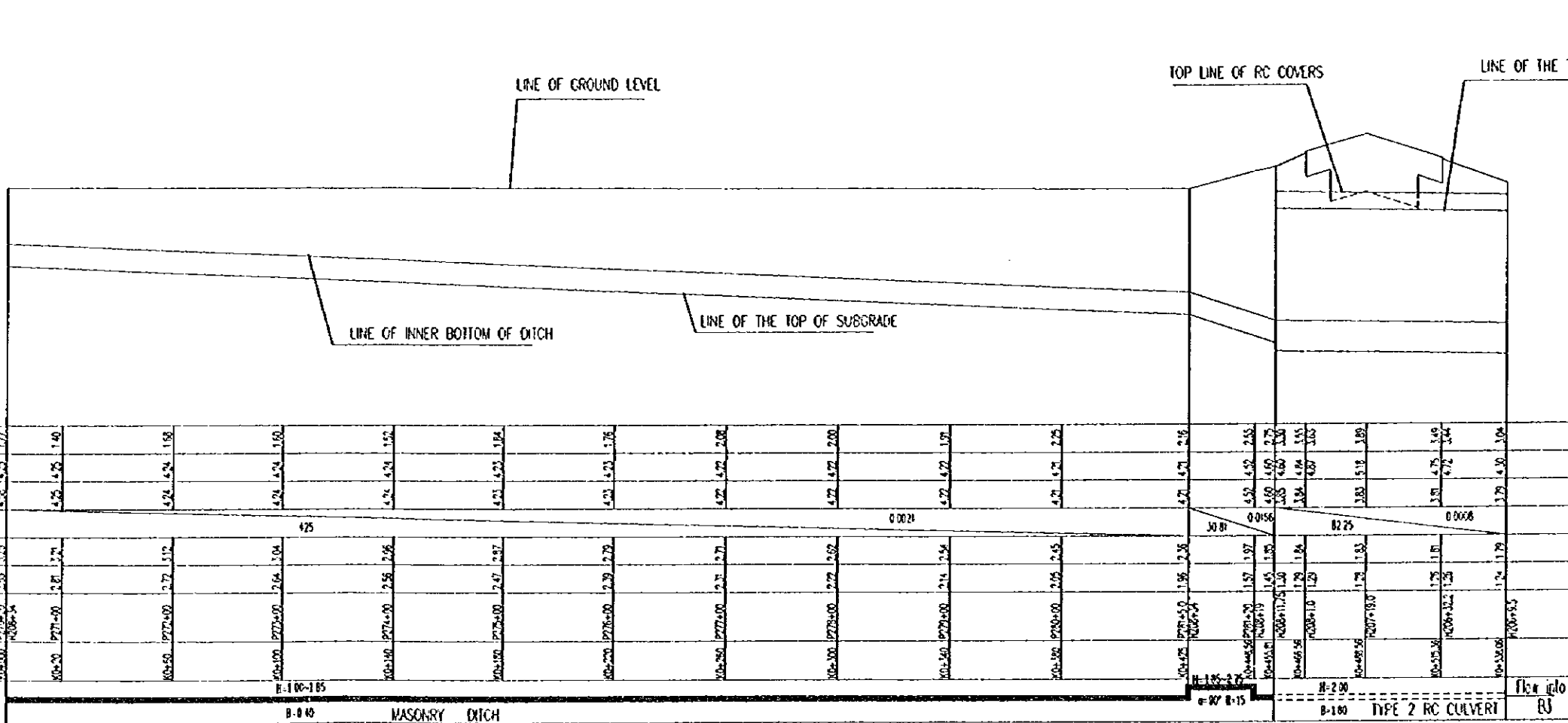
NOTE

1. Unit : m

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE PROFILE (B4-0, B4-1)	
SCALE	H=1000 V=50 DWG-05(31/36)
JAPAN INTERNATIONAL COOPERATION AGENCY	



LINE OF THE TOP OF CULVERT WALL



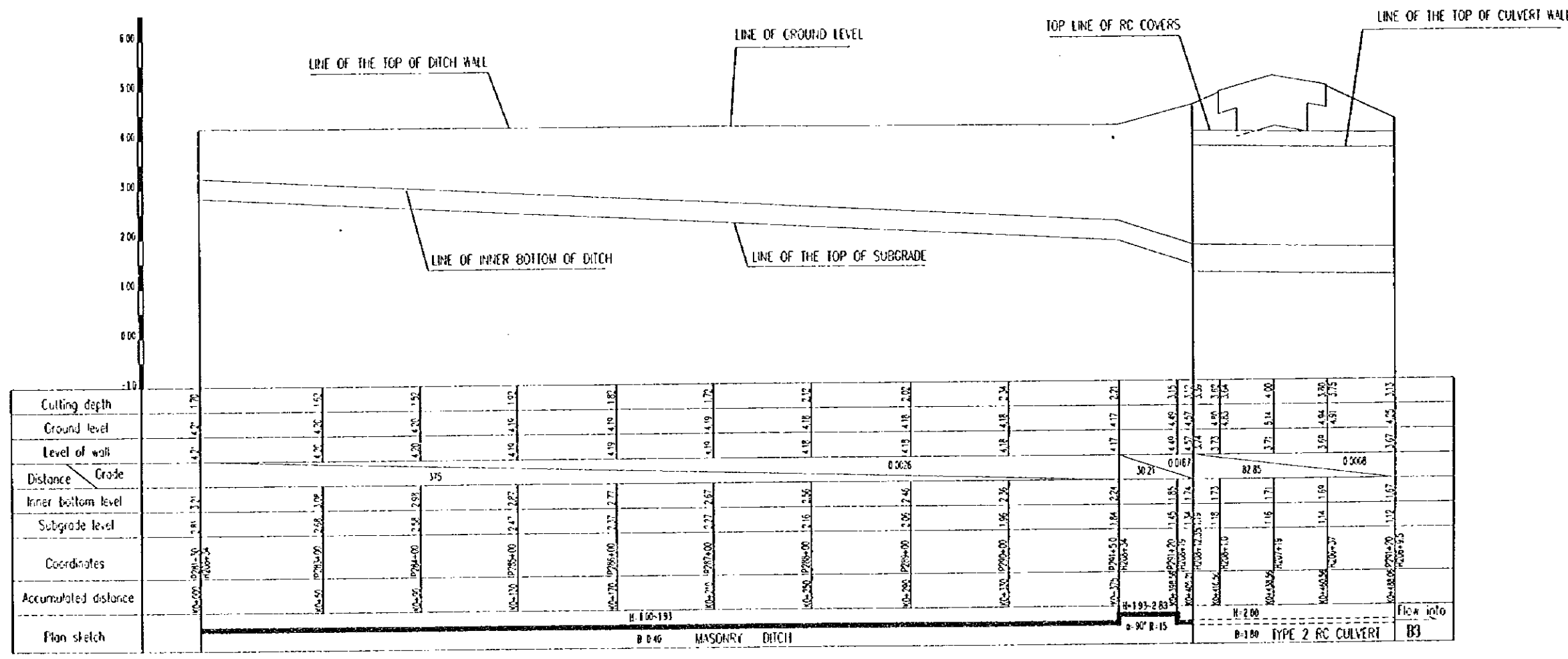
Cutting depth	1.77	1.40	1.58	1.60	1.52	1.64	1.76	2.08	2.00	1.97	2.25	2.18	2.55	3.00	3.05	3.04	3.04	3.04	
Ground level	4.23	4.25	4.24	4.24	4.24	4.23	4.23	4.22	4.22	4.22	4.22	4.21	4.19	4.17	4.15	4.14	4.14	4.14	
Level of wall	4.58	4.26	4.24	4.24	4.24	4.23	4.23	4.22	4.22	4.22	4.22	4.21	4.19	4.17	4.15	4.14	4.14	4.14	
Distance				475					0.0020				30.00	0.0156		0.225		0.0008	
Grade																			
Inner bottom level	1.75	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.42	
Subgrade level	2.85	2.81	2.77	2.74	2.72	2.69	2.67	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.46	2.44	
Coordinates	100+00.00	100+25.00	100+50.00	100+75.00	101+00.00	101+25.00	101+50.00	101+75.00	102+00.00	102+25.00	102+50.00	102+75.00	103+00.00	103+25.00	103+50.00	103+75.00	104+00.00	104+25.00	
Accumulated distance	0+00	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	
Plan sketch	B=0.40 MASONRY DITCH												B=1.80 TYPE 2 RC CULVERT		Plan 1/10				

ERT	1.84	1.79	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Info																		
B3																		

B4-3

NOTE  
1. Unit : m

PEOPLE'S REPUBLIC OF CHINA			
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997	
STORM DRAINAGE PROFILE (B4-2, B4-3)			
SCALE	H=1000	V=50	CNS1-05(32/36)
JAPAN INTERNATIONAL COOPERATION AGENCY			



NOTE  
1. Unit : m

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE PROFILE (B4-4)	
SCALE H=1000 V=50	DWG1-DS(33/36)
JAPAN INTERNATIONAL COOPERATION AGENCY	







LINE OF THE TOP OF DITCH WALL

TOP LINE OF RC COVERS

LINE OF GROUND LEVEL

LINE OF INNER BOTTOM OF DITCH

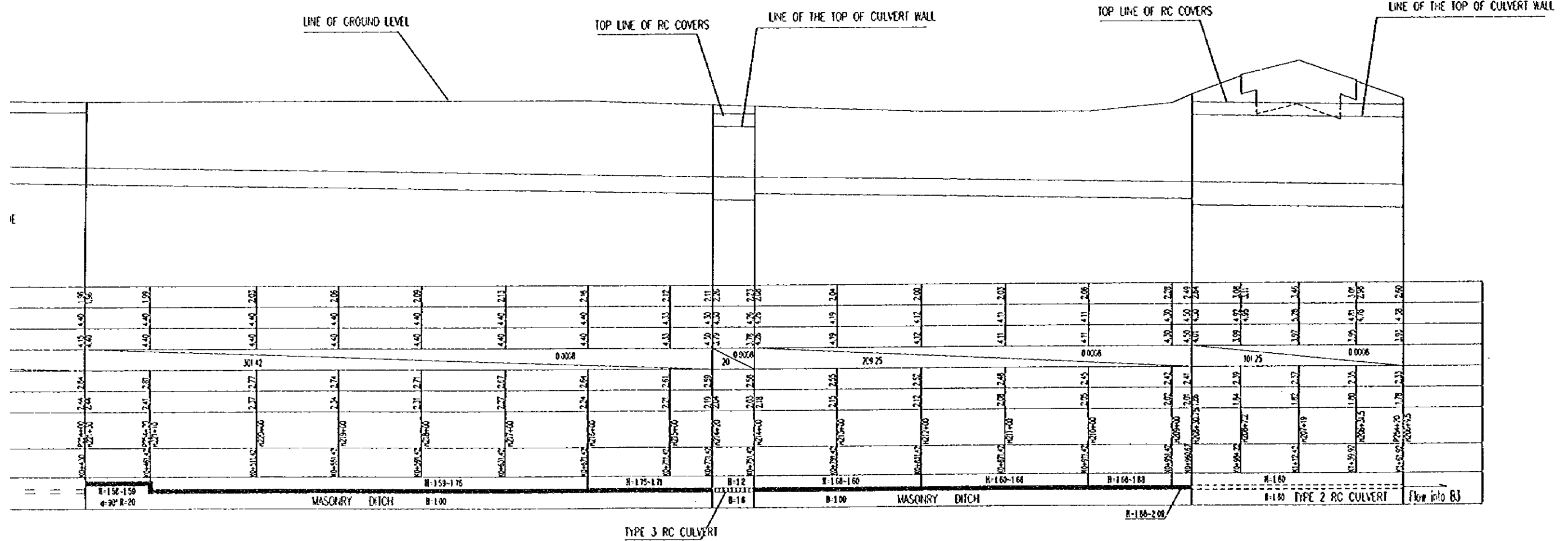
LINE OF THE TOP OF SUBGRADE

Cutting depth		1.67	1.69	1.72	1.75	1.77	1.80	1.82	1.85	1.87	1.89	1.91	1.94	1.96	1.99	2.02	2.05	2.09
Ground level		4.45	4.45	4.44	4.44	4.43	4.43	4.42	4.42	4.42	4.41	4.41	4.41	4.40	4.40	4.40	4.40	4.40
Level of wall		4.70	4.70	4.69	4.69	4.68	4.68	4.67	4.67	4.67	4.66	4.66	4.65	4.65	4.64	4.64	4.64	4.64
Distance					430				0.0008									
Grade																		
Inner bottom level		3.18	3.16	3.12	3.09	3.06	3.03	3.00	2.97	2.93	2.90	2.87	2.84	2.81	2.77	2.74	2.71	2.68
Subgrade level		2.78	2.76	2.72	2.69	2.66	2.63	2.60	2.57	2.53	2.50	2.47	2.44	2.41	2.37	2.34	2.31	2.28
Coordinates		P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10	P20+10
Accumulated distance		0+00	0+10	0+20	0+30	0+40	0+50	0+60	0+70	0+80	0+90	0+98	0+98	0+98	0+98	0+98	0+98	0+98
Plan sketch																		

H-102-13  
B-14 TYPE 1 RC DITCH

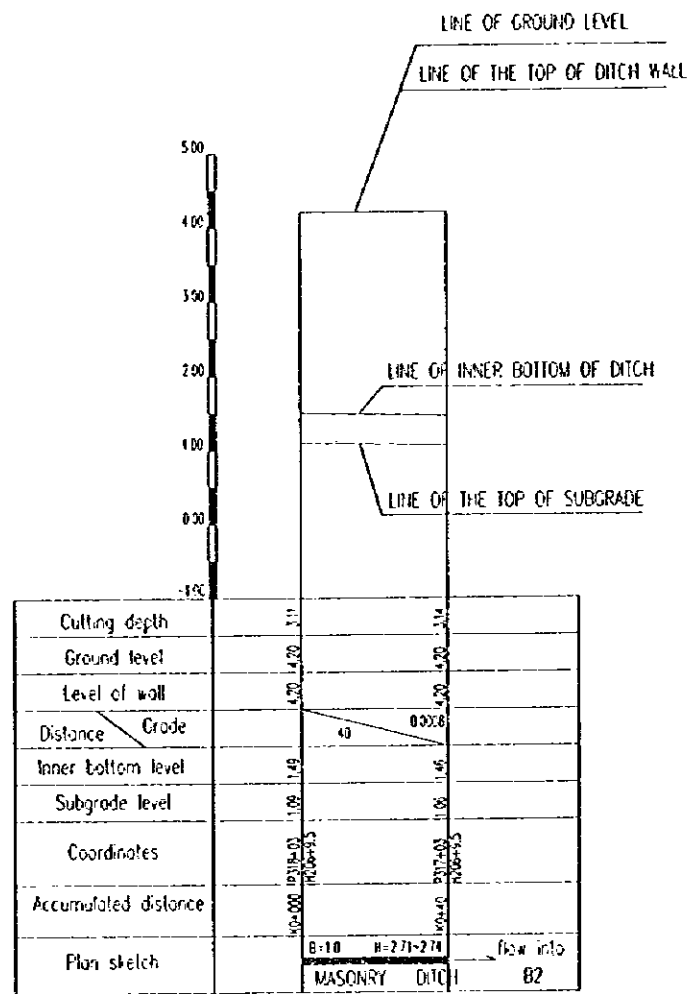
H-156-150  
e-97 R-20 MASONRY DITCH





NOTE  
 1. Unit : m

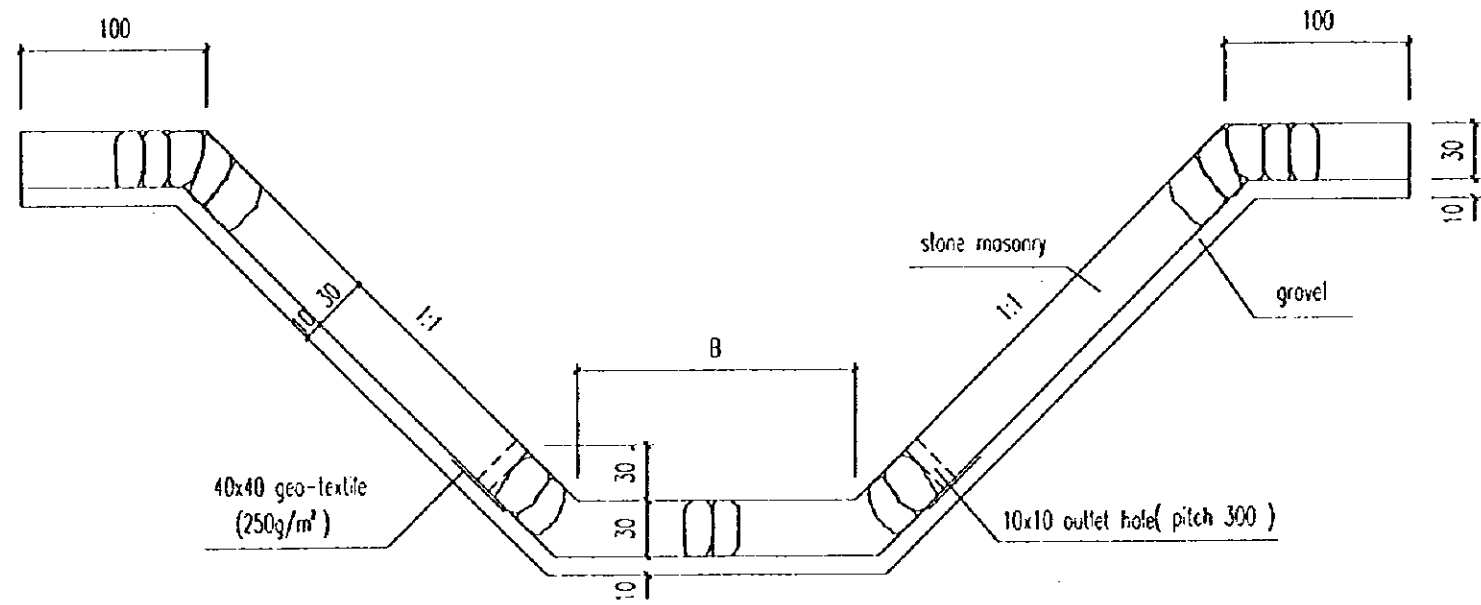
PEOPLE'S REPUBLIC OF CHINA			
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997	
STORM DRAINAGE PROFILE (B5)			
SCALE	H=1000	V=50	DWG1-05(35/36)
JAPAN INTERNATIONAL COOPERATION AGENCY			



NOTE

1 Unit : m

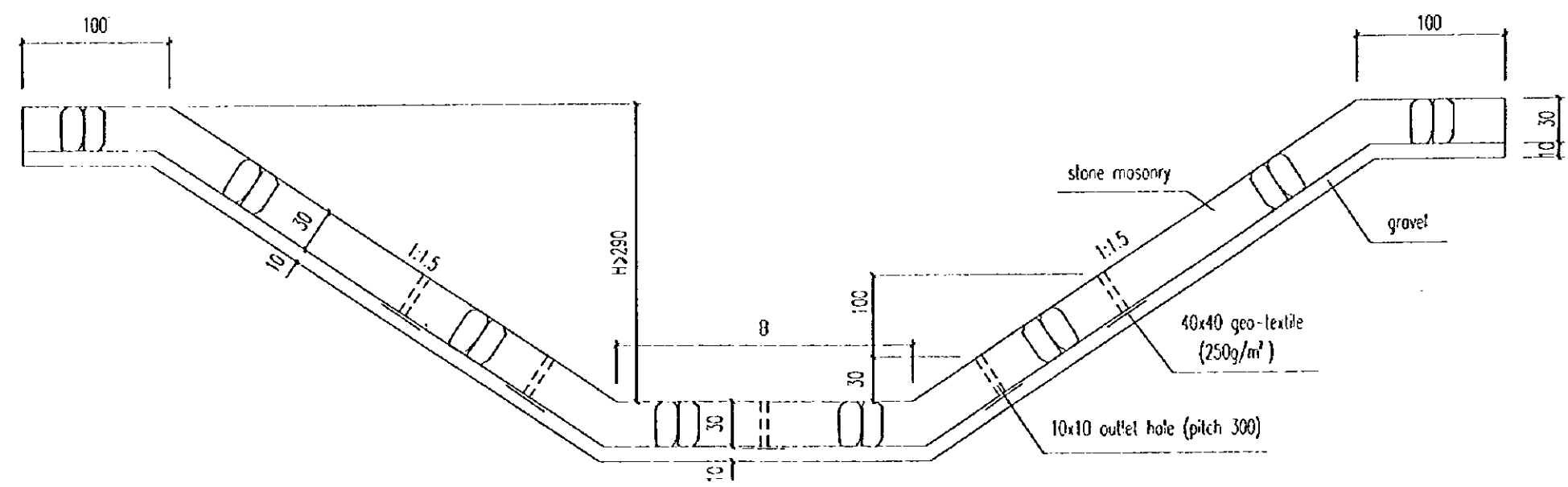
PEOPLE'S REPUBLIC OF CHINA			
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT			SEPTEMBER 1997
STORM DRAINAGE PROFILE (66)			
SCALE	H=1000	V=50	DWG1-05(36/36)
JAPAN INTERNATIONAL COOPERATION AGENCY			



Masonry Ditch ( $H < 290$ )

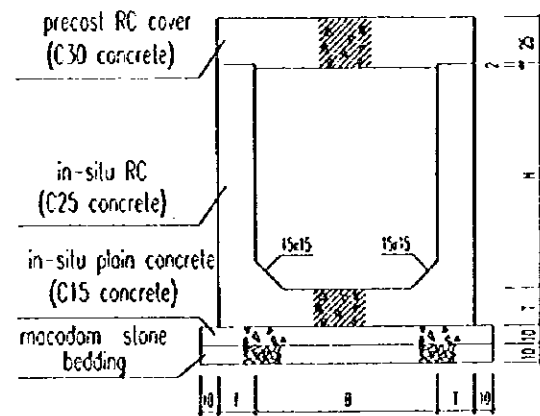
NOTE

1. Unit: cm.
2. Expansion joint separation: 10m ;  
 expansion joint material :asphalt immersed timber board ;  
 expansion board thickness: 2cm .

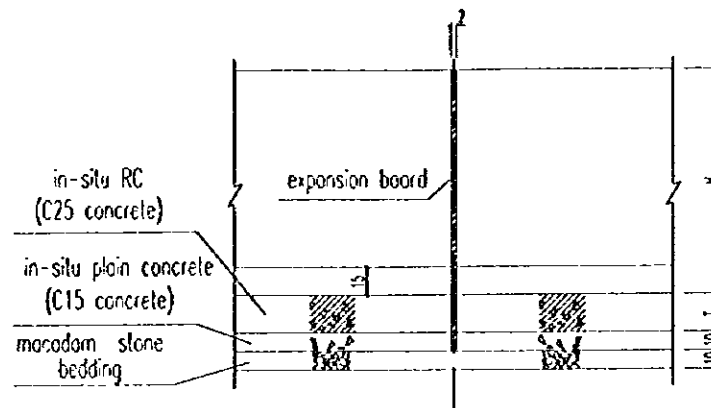


Masonry Ditch ( $H \geq 290$ )

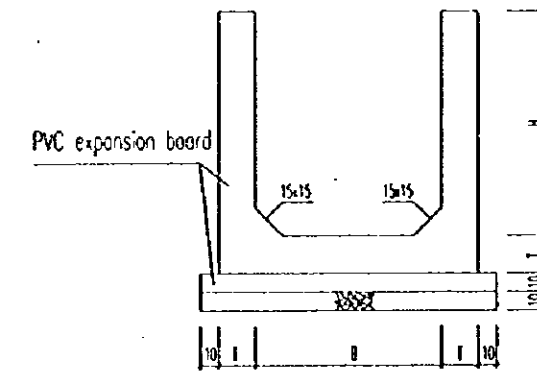
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT		SEPTEMBER 1997
STORM DRAINAGE STRUCTURE (1)		
SCALE	1:50	DWG-06(1/6)
JAPAN INTERNATIONAL COOPERATION AGENCY		



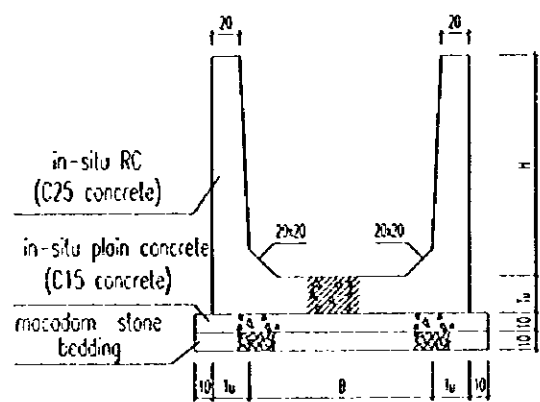
Type 1 RC Ditch/Culvert  
(with PRC Cover)



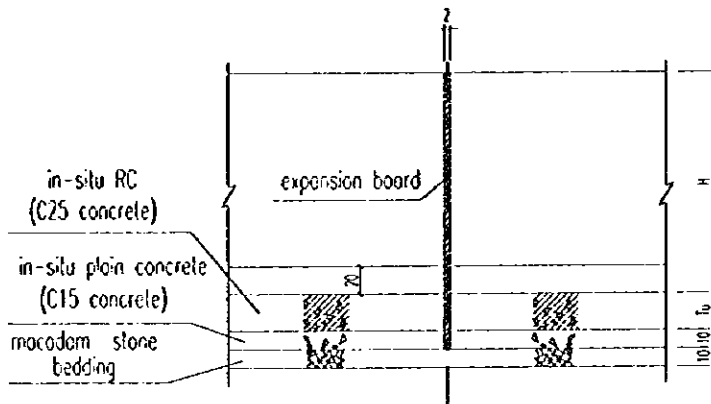
Joint of Type 1 RC Ditch/Culvert  
(Elevation)



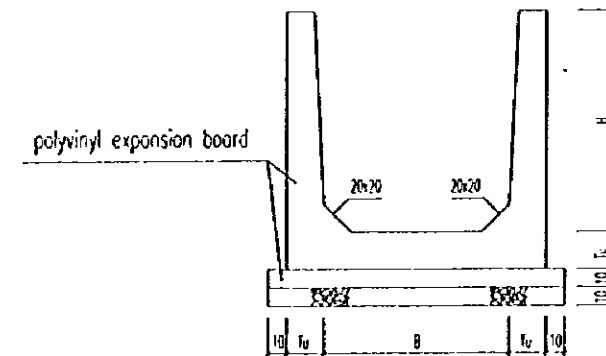
Joint of Type 1 RC Ditch/Culvert  
(Cross Section)



Type 1 U-Shape RC Ditch



Joint of Type 1 U-Shape RC Ditch  
(Elevation)



Joint of Type 1 U-Shape RC Ditch  
(Cross Section)

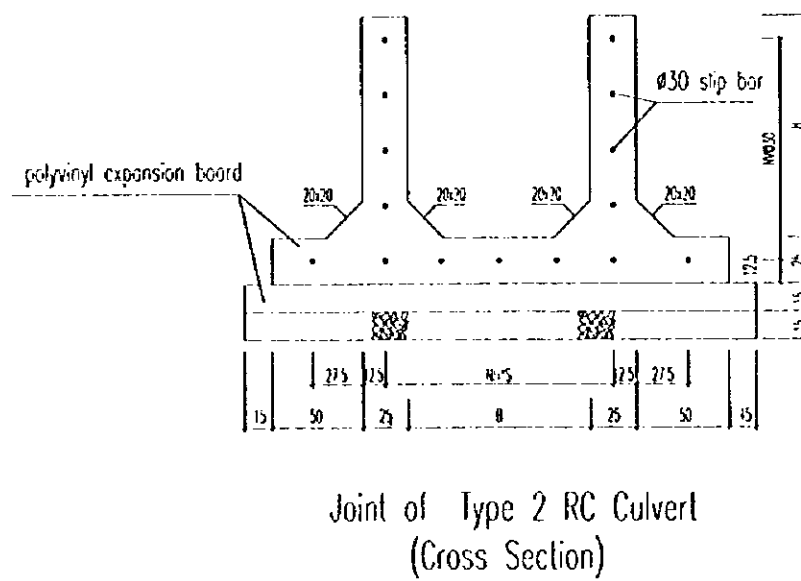
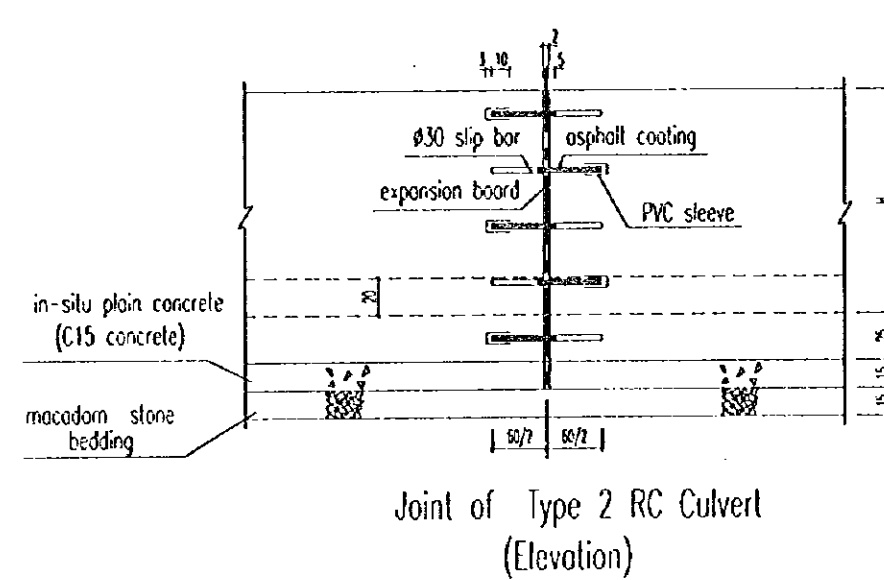
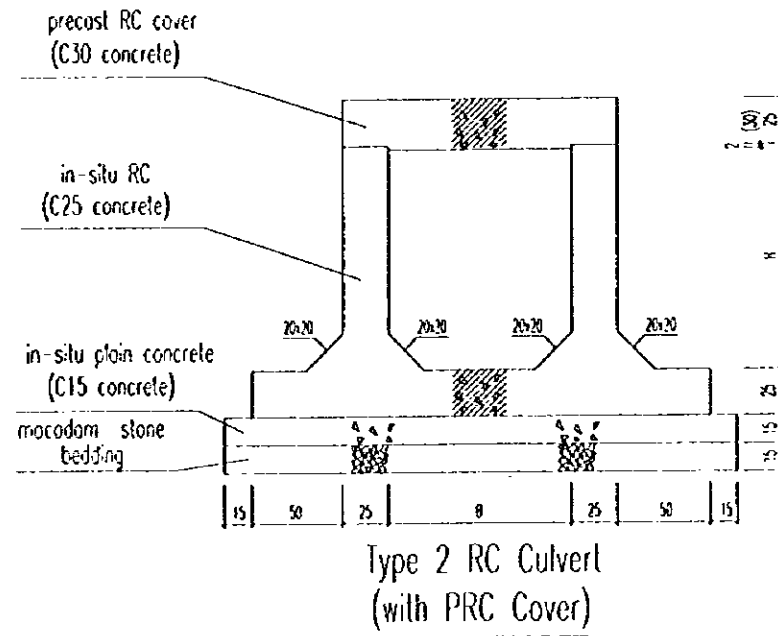
Thicknesses of Side Wall  
and Bottom Slab

H(cm)	<200	>200
t(cm)	20	25
Tu(cm)	25	35

NOTE

1. Unit: cm.
2. See "DWG1-D7(1/2)" for dimensions of precast RC covers.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE STRUCTURE (2)	
SCALE	1:50 SCALE DWG1-D6(2/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	



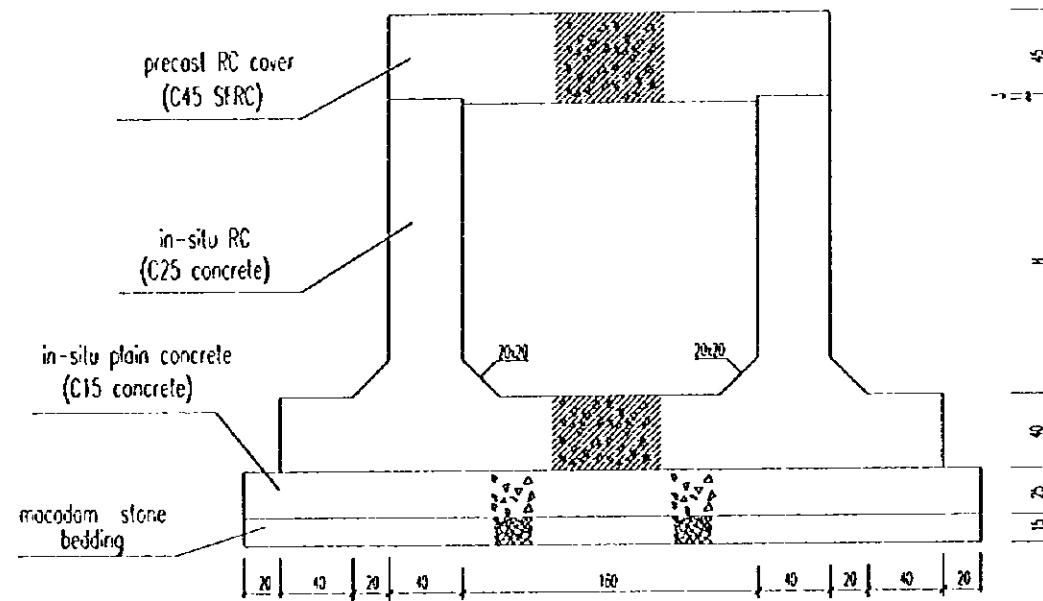
Separations of Slip Bar

H(cm)	70	100	110	130	140	160	180	200
NV	2	3	3	4	4	5	6	6
B(cm)	80	100	120	140	160	180		
NH	3	4	4	5	5	6		
S(cm)	35	31.25	36.25	33	37	34.17		

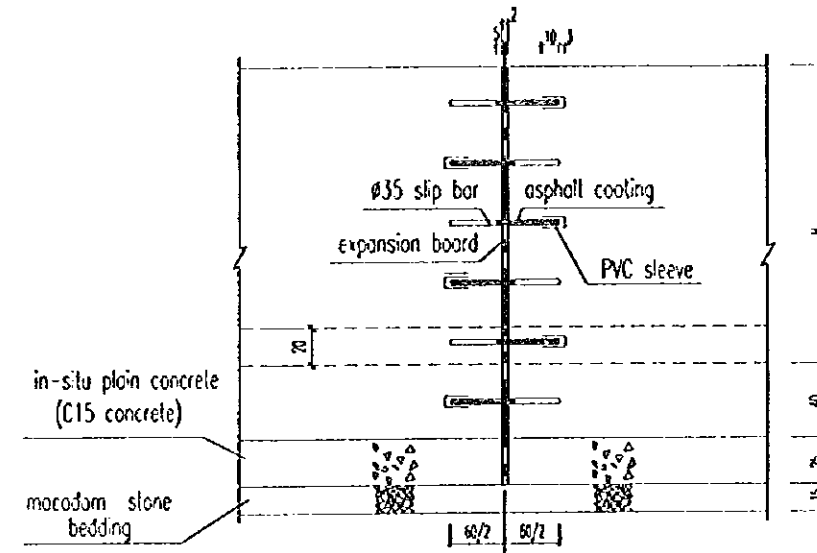
NOTE

- Unit: cm.
- See "DWG1-D7(1/2)" for dimensions of precast RC covers.

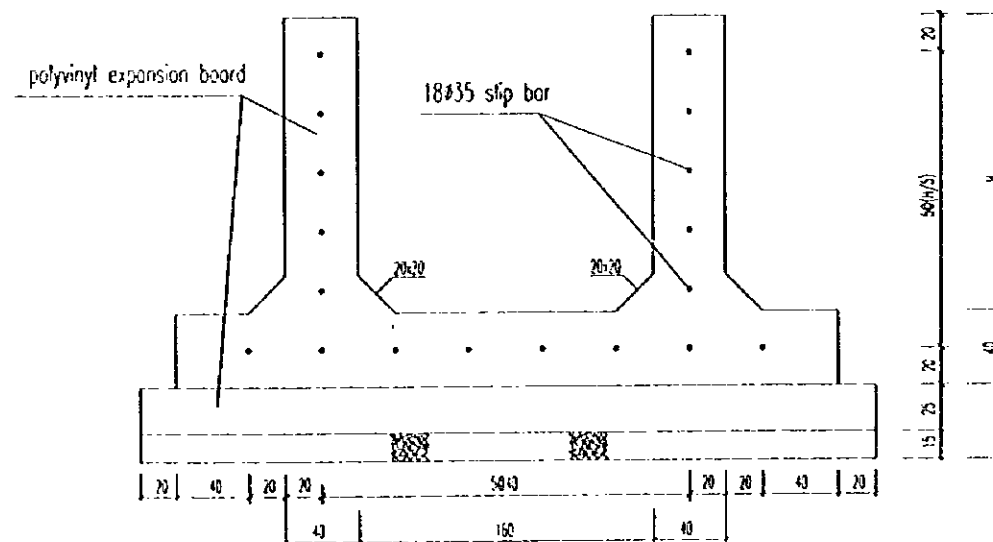
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE STRUCTURE (3)	
SCALE	NON SCALE DWG1-D6(3/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	



Type 2 RC Ditch  
(with PRC Cover)



Joint of Type 2 RC Ditch  
(Elevation)

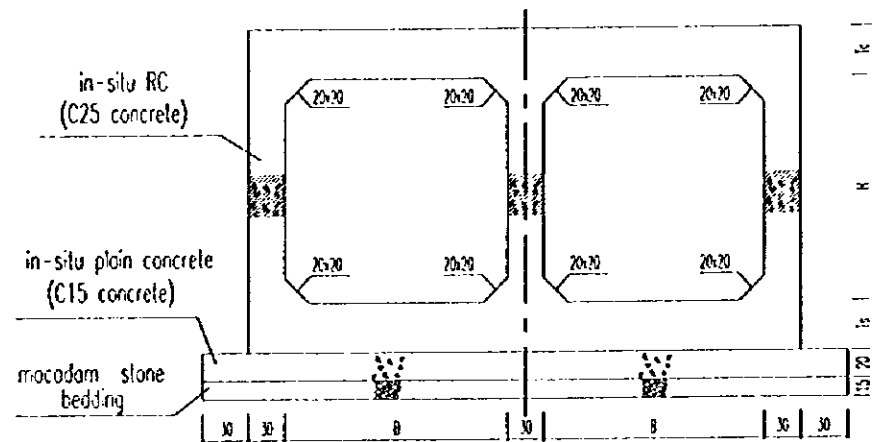


Joint of Type 2 RC Ditch  
(Cross Section)

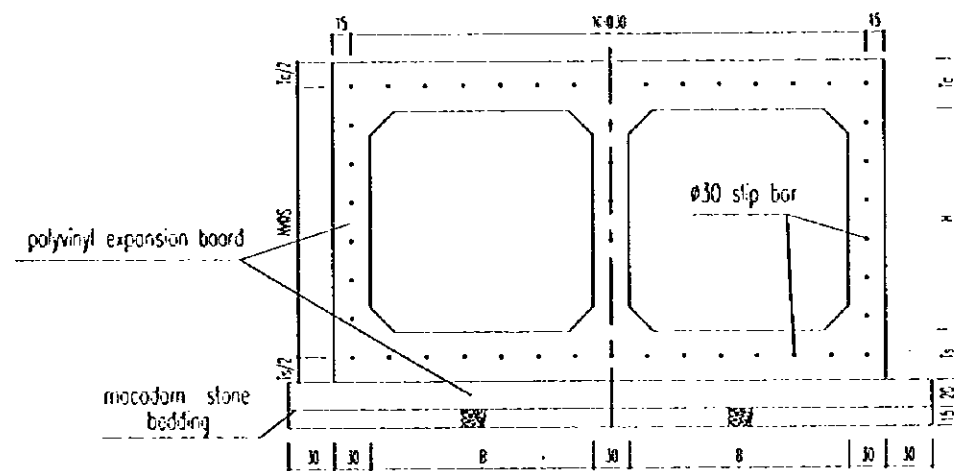
NOTE

1. Unit: cm.
2. See "DWG1-D7(2/2)" for dimensions of precast RC covers.

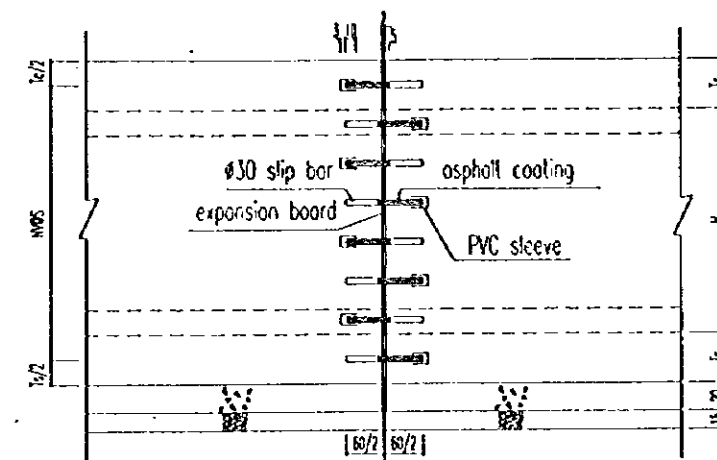
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE STRUCTURE (4)	
SCALE	DWG1-D6(4/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	



Type 2 Box Culvert  
(Double Holes)



Joint of Type 2 Box Culvert (Double Holes)  
(Cross Section)



Joint of Type 2 Box Culvert (Double Holes)  
(Elevation)

Thicknesses of Upper Board and Bottom Slab

B*H(cm*cm)	Tc(cm)	Ts(cm)
180*180	40	40
240*200	50	50

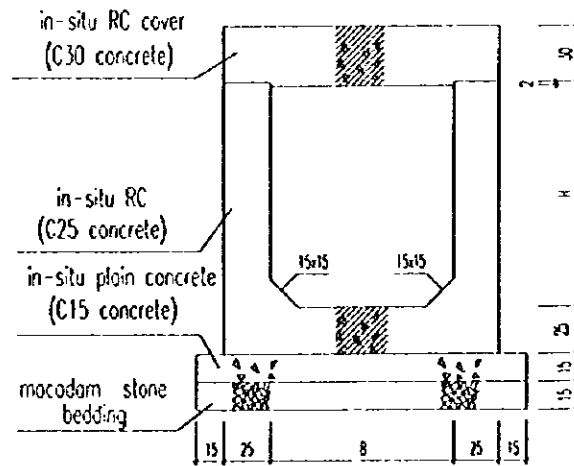
Separations of Slip Bar

B*H(cm*cm)	NH	NV	S(cm)
180*180	14	6	36.67
240*200	18	8	31.25

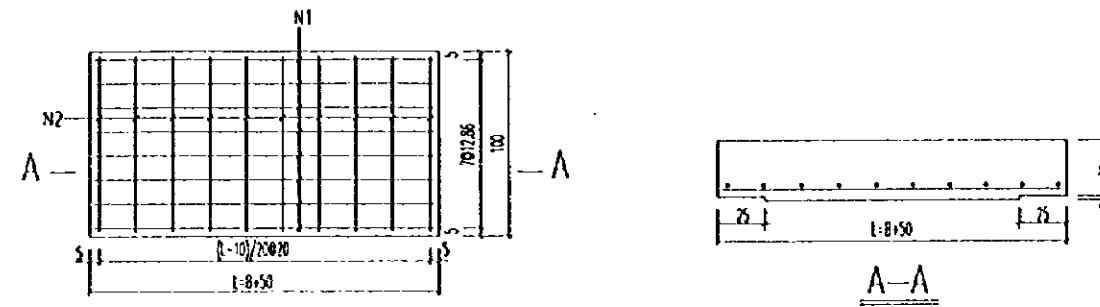
NOTE

1. Unit: cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE STRUCTURE (5)	
SCALE	1:50
DWG1-DC(5/6)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



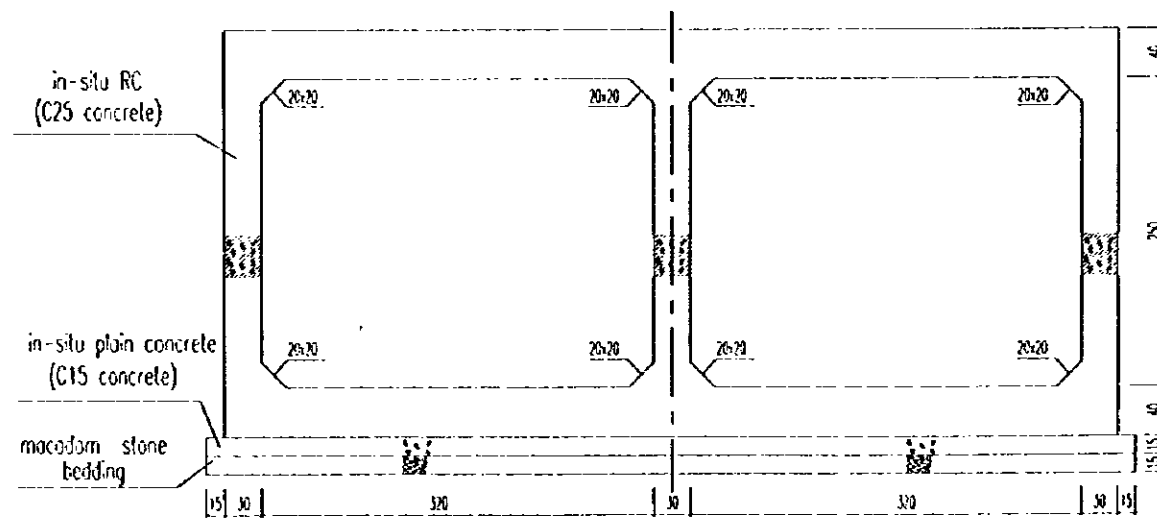
Type 3 RC Culvert  
(with RC Cover)



Reinforcement Arrangement Plan for RC Cover  
of Type 3 RC Culvert

Material Quantities for Each RC Cover of Type 3 RC Culvert

B (cm)	L (cm)	No.	Shape (cm)	Da (mm)	No's	Length (cm)	Total Length (m)	Total Weight (kg)	Concrete (m <sup>3</sup> )	B (cm)	L (cm)	No.	Shape (cm)	Da (mm)	No's	Length (cm)	Total Length (m)	Total Weight (kg)	Concrete (m <sup>3</sup> )
120	170	N1	165	#12	8	165	13.20	11.72	0.534	160	210	N1	205	#16	8	205	16.40	25.91	0.662
		N2	94	#10	9	94	8.46	5.22				N2	94	#10	11	94	10.34	6.38	
140	190	N1	185	#14	8	185	14.80	17.68	0.598	180	230	N1	225	#18	8	225	18.00	35.96	0.726
		N2	94	#10	10	94	9.40	5.80				N2	94	#10	12	94	11.28	6.95	



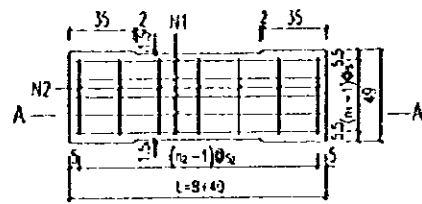
Type 3 RC Box Culvert  
(Double Holes)

NOTE

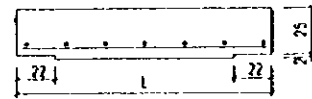
1. Unit: cm.
2. For  $\frac{P190+35}{R201+20} \sim \frac{P190+35}{R199+20}$  type 2 box culvert (double holes), expansion joints are installed (pitch 20m); using 2cm thick polyvinyl expansion board.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDDING INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STORM DRAINAGE STRUCTURE (6)	
SCALE	NON SCALE DWG1-D5(6/6)
JAPAN INTERNATIONAL COOPERATION AGENCY	





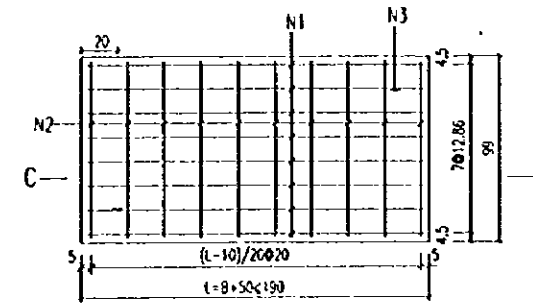
Reinforcement Plan for Covers of Type 1 RC Ditch



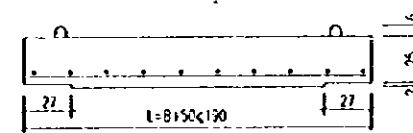
A-A

Material Quantities for Each Cover of Type 1 RC Ditch

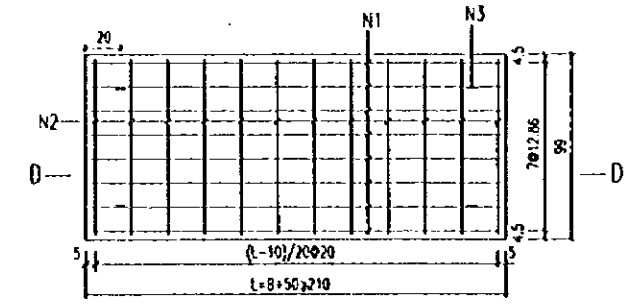
B (cm)	L (cm)	No	Shape (cm)	Dia (mm)	No's	Spitch S1/S2 (cm)	Length (cm)	Total Length (m)	Total Weight (kg)	Concrete (m <sup>3</sup> )
100	143	N1	135	#12	5	9.5	135	6.75	5.93	0.173
		N2	41	#8	7	21.67	41	2.87	1.13	
120	160	N1	155	#12	5	9.5	155	7.75	6.89	0.198
		N2	41	#8	7	25	41	2.87	1.13	
140	180	N1	175	#14	5	9.5	175	8.75	10.59	0.223
		N2	41	#8	8	24.3	41	3.28	1.30	
160	200	N1	195	#14	5	9.5	195	9.75	11.80	0.243
		N2	41	#8	9	23.75	41	3.69	1.46	
180	220	N1	215	#16	5	9.5	215	10.75	16.99	0.273
		N2	41	#8	10	23.33	41	4.10	1.62	



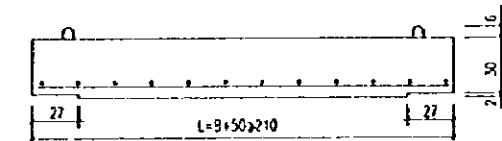
Reinforcement Plan for Covers of Type 2 RC Culvert



C-C



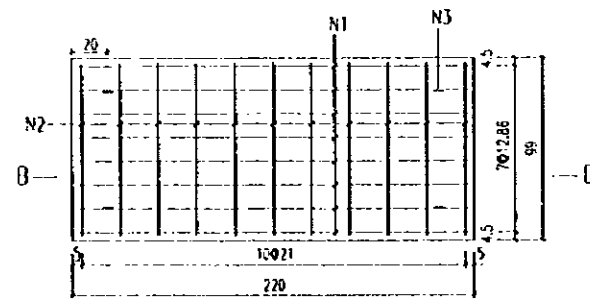
Reinforcement Plan for Covers of Type 2 RC Culvert



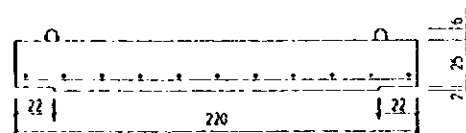
D-D

Material Quantities for Each Cover of Type 2 RC Culvert

B (cm)	L (cm)	No	Shape (cm)	Dia (mm)	No's	Length (cm)	Total Length (m)	Total Weight (kg)	Concrete (m <sup>3</sup> )	B (cm)	L (cm)	No	Shape (cm)	Dia (mm)	No's	Length (cm)	Total Length (m)	Total Weight (kg)	Concrete (m <sup>3</sup> )
100	150	N1	145	#12	8	145	11.60	10.30	0.335	160	210	N1	205	#16	8	205	16.40	25.91	0.662
		N2	94	#10	8	94	7.52	4.64				N2	94	#10	11	94	10.34	6.38	
		N3	6 225	#10	2	88	1.76	1.09				N3	6 225	#10	4	98	3.92	2.42	
120	170	N1	165	#14	8	165	13.20	15.95	0.449	180	230	N1	225	#18	8	225	18.00	35.56	0.726
		N2	94	#10	9	94	8.46	5.22				N2	94	#10	12	94	11.28	6.95	
		N3	6 225	#10	2	88	1.76	1.09				N3	6 225	#10	4	98	3.92	2.42	
140	190	N1	185	#16	8	185	14.80	23.38	0.505										
		N2	94	#10	10	94	9.40	5.80											
		N3	6 225	#10	2	88	1.76	1.09											



Reinforcement Plan for Covers of Type 1 RC Culvert



B-B

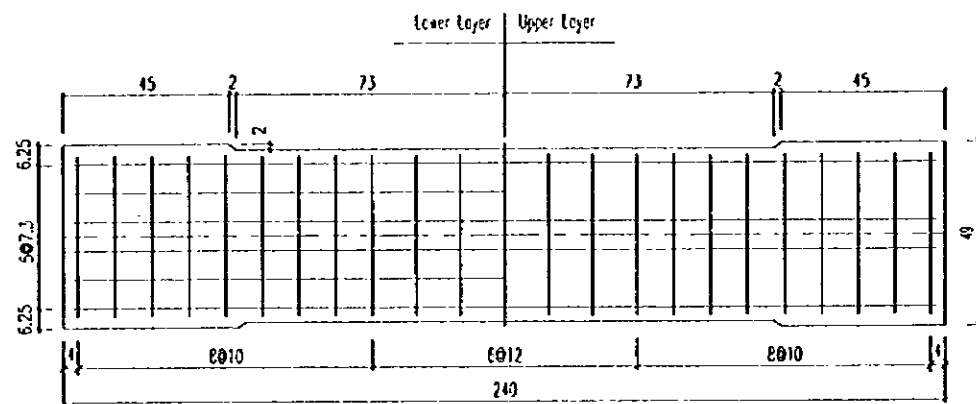
Material Quantities for Each Cover of Type 1 RC Culvert

B (cm)	No	Shape (cm)	Dia (mm)	No's	Length (cm)	Total Length (m)	Total Weight (kg)	Concrete (m <sup>3</sup> )
130	N1	215	#16	8	215	17.20	27.18	0.588
	N2	94	#10	11	94	10.34	6.38	
	N3	6 225	#10	4	88	3.52	2.18	

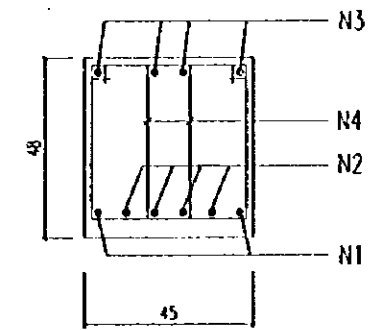
NOTE

1. Unit: cm.
2. Concrete : C30 .
3. B : net width of RC ditch/culvert .

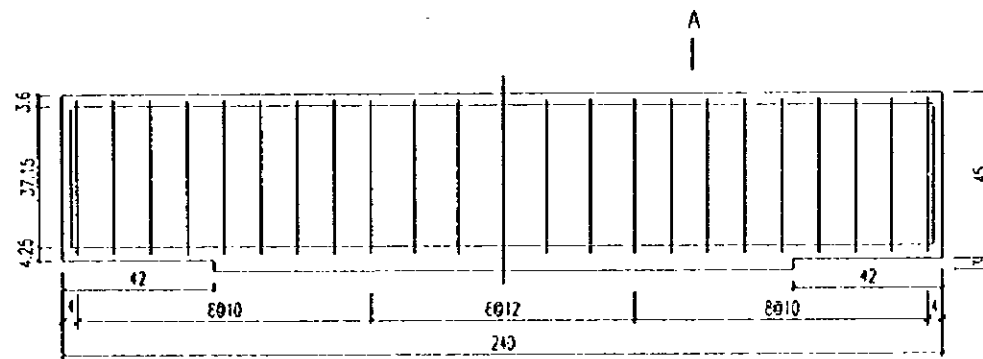
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT / SEPTEMBER 1997	
REINFORCEMENT OF PRECAST CONCRETE COVERS	
SCALE	1/20 SCALE DWG-D7(1/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



Reinforcement Plan for Covers  
of Type 2 RC Ditch



A-A



Elevation

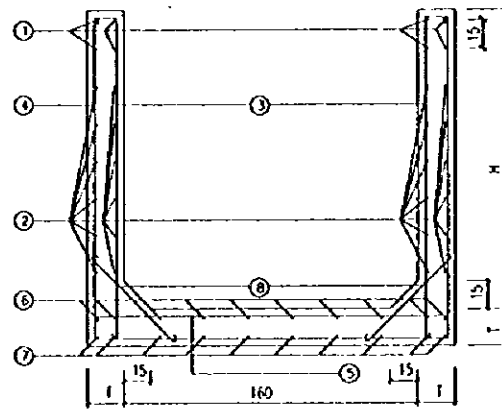
Material Quantities for Each Cover  
of Type 2 RC Ditch

No	Shape (cm)	Dia (mm)	No's	Length (cm)	Total Length (m)	Total Weight (kg)	Concrete (m <sup>3</sup> )
N1	736	Ø25	2	314	628	24.18	0.524
N2	236	Ø25	4	236	944	36.34	
N3	236	Ø12	4	236	944	8.38	
N4	244	Ø10	45	133.4	6412	39.56	

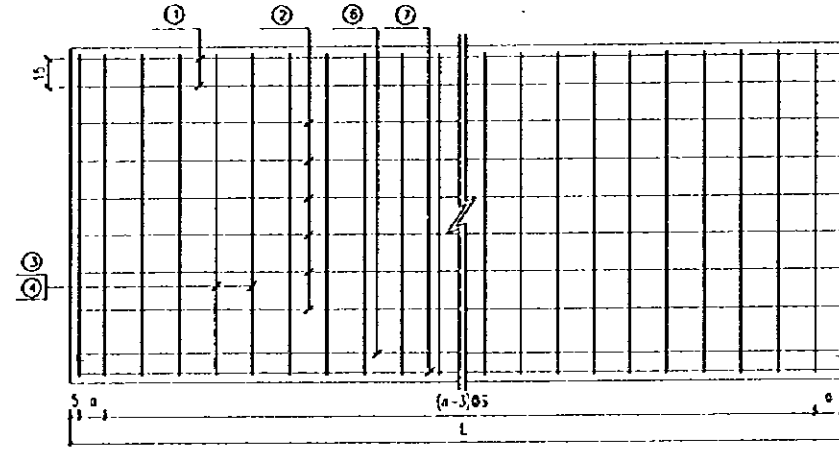
NOTE

1. Unit: cm.
2. Concrete : C45 .
3. Steel fibres are added to concrete mixture ,  
with content of 30kg/m<sup>3</sup> .

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF PRECAST CONCRETE COVERS	
SCALE	DWG1-07(2/2)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	—	L-7
②	L-7	φ8	m	20	L-7
③	$\frac{H}{2}$ H<150	φ8	2n	25	H+36
	$\frac{H}{2}$ 150<H<200	φ10	2n	20	H+39
	$\frac{H}{2}$ 200<H<250	φ10	2n	20	H+49
④	$\frac{H}{2}$ H<150	φ12	n	25	2H+234
	$\frac{H}{2}$ 150<H<200	φ14	n	20	2H+237
	$\frac{H}{2}$ 200<H<250	φ14	n	20	2H+257
⑤	$\frac{H}{2}$ H<200	φ10	n	OS③	206
	$\frac{H}{2}$ 200<H<250	φ10	n	OS③	216
⑥	L-7	φ10	10	—	L+6
⑦	L-7	φ12	10	—	L-7
⑧	$\frac{H}{2}$ H<200	φ8	2n	OS③	71
	$\frac{H}{2}$ H>200	φ8	2n	OS③	85

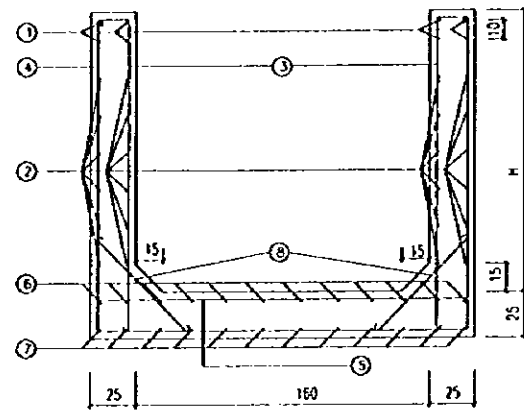
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H	I	L	S	a	m	n	QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m <sup>3</sup> )
									φ8	φ10	φ12	φ14	
P225+00 ~ P224+20 H195+05 ~ H195+05	1	131~133	20	1998	25	19	20	81	310.2	226.6	676.4	0	18.931
P208+20 ~ P204+00 H196+05 ~ H196+05	9	185~199	20	1996	20	14	32	101	2774.8	4859.3	2864.2	6830.3	214.076
P204+00 ~ P203+28 H196+05 ~ H196+05	1	199~200	20	1198	20	14	32	61	184.8	331.3	190.4	469.4	14.622
P203+28 ~ P203+20 H196+05 ~ H196+05	1	200~201	25	798	20	14	32	41	127.5	230.5	126.4	326.4	12.369
P203+20 ~ P197+00 H196+05 ~ H196+05	13	201~221	25	1998	20	14	36	101	4562.2	7569.9	4137.1	10787.5	416.233
TOTAL									7959.5	13217.6	7994.5	18413.6	676.291

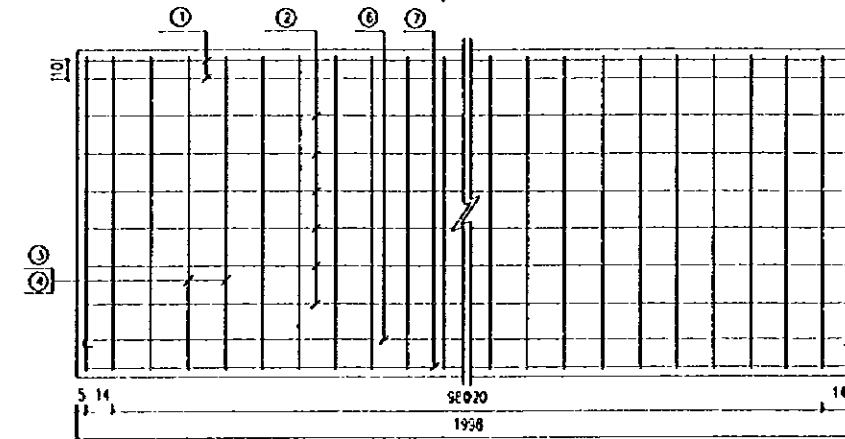
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 RC DITCH(A1)	
SCALE	DWG1-D8(1/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 3 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
①	1991	Ø14	8	---	1991	159.28	192.5
②	1991	H-80	12	20	1991	238.92	147.3
	1991	H-160	28	20	1991	557.48	343.7
③	180	H-80	202	20	129	260.58	160.6
	170	H-160	202	20	211	426.22	378.4
④	203	H-80	101	20	414	418.14	371.2
	203	H-160	101	20	574	579.74	514.7
⑤	203	Ø16	101	20	223	225.23	355.5
⑥	1991	Ø14	12	---	2009	241.08	291.3
⑦	1991	Ø14	12	---	1991	238.92	288.7
⑧	75	Ø10	202	20	88	177.76	109.7

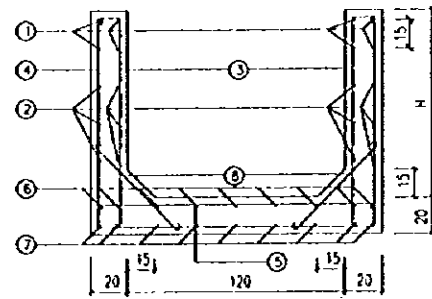
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m³)
			Ø10	Ø12	Ø14	Ø16	
P238+25 ~ P238+05 H196+05 ~ H196+05	1	80	417.6	371.2	772.5	355.5	18.931
P209+00 ~ P208+20 H196+05 ~ H196+05	1	160	453.4	893.1	772.5	355.5	26.923
TOTAL			871.0	1264.3	1545.0	711.0	45.854

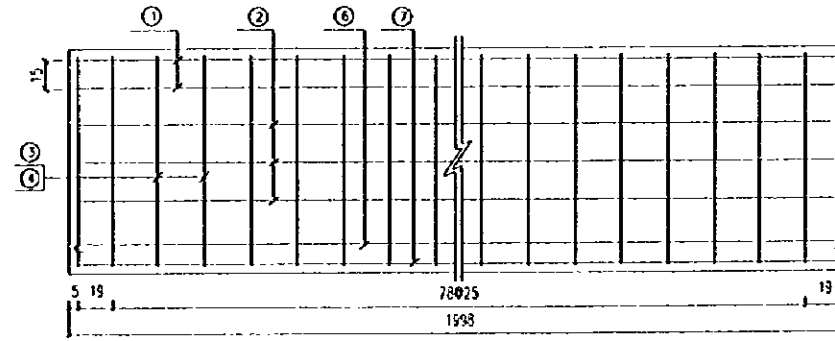
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 3 RC CULVERT(A1)	
SCALE	1:100 (DWG. 08/2/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	QUANTITIES OF REINFORCEMENT (kg)			C25 CONCRETE (m <sup>3</sup> )
			φ8	φ10	φ12	
P250+15.45 ~ P249+27.27 H203+37.5 ~ H203+29.15	1	97~99	225.6	194.2	581.1	14.675
TOTAL			225.6	194.2	581.1	14.675

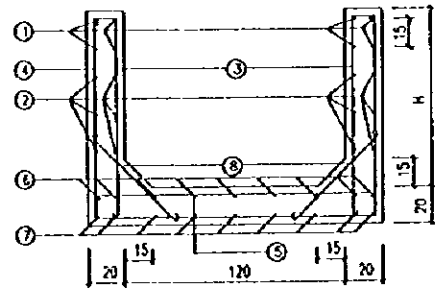
BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	— <sup>1991</sup> —	φ12	8	—	1991
②	— <sup>1991</sup> —	φ8	12	—	1991
③	⌈ <sup>11</sup> / <sub>25</sub> ⌋	φ8	162	25	11+36
④	⌈ <sup>11</sup> / <sub>25</sub> ⌋	φ12	81	25	2H+194
⑤	⌈ <sup>155</sup> / <sub>25</sub> ⌋	φ10	81	25	166
⑥	— <sup>1991</sup> —	φ10	9	—	2004
⑦	— <sup>1991</sup> —	φ12	9	—	1991
⑧	⌈ <sup>61</sup> / <sub>25</sub> ⌋	φ8	162	25	71

NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 RC DITCH(A2)	
SCALE	DWG1-DB(3/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



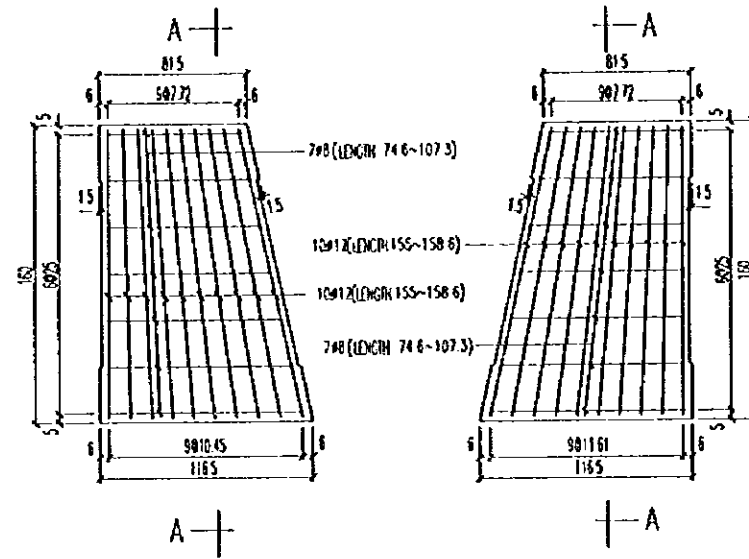
CROSS SECTION OF REINFORCEMENT  
(TYPE 1 RC DITCH)

HEIGHTS OF SIDE WALL

COORDINATES	P247+9.09 H201+24.17	P247+00 H202+20	P246+34 H202+20
H(cm)	92	72	73

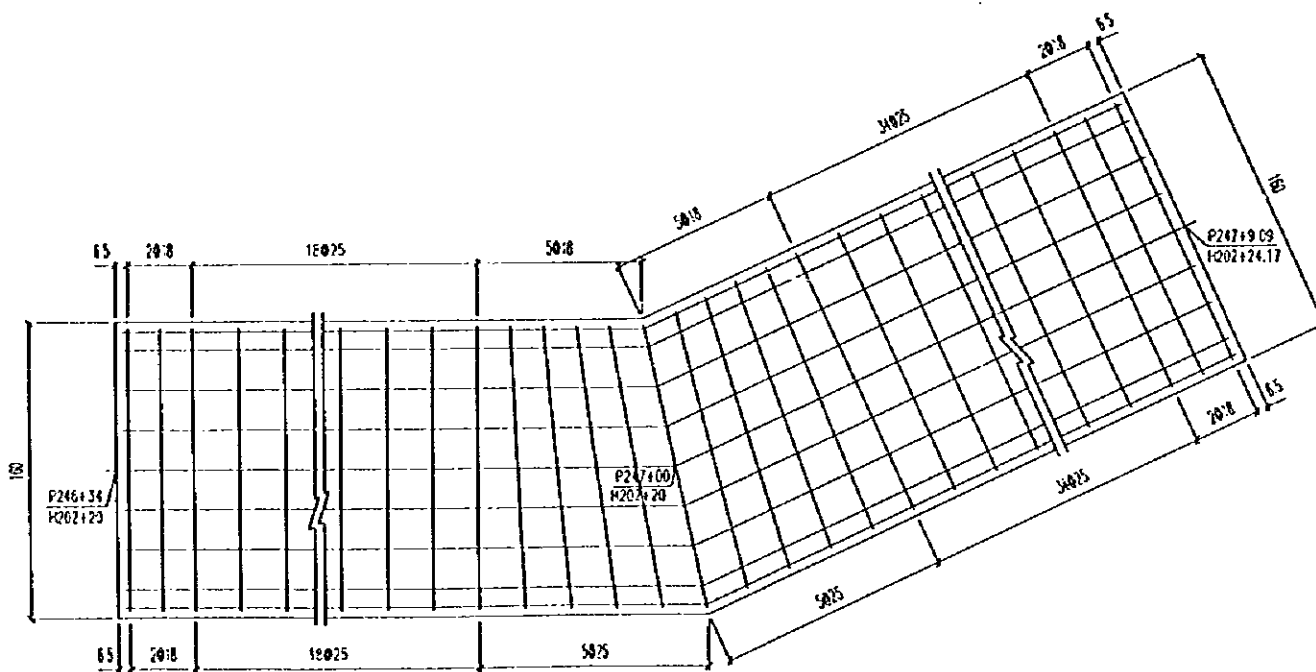
BENDING SCHEDULE

No.	Shape (cm)	Dia. (mm)	No's	Length (cm)
①	612 B-580.2 1012 B-990.2	Ø12	8	1625.6~1560.4
②	612 B-580.2 1012 B-990.2	Ø8	12	1625.6~1560.4
③	11-11.3	Ø8	134	H+36~H+36.3
④	153-156.6	Ø12	67	2H+194 ~2H+197.6
⑤	153-156.6	Ø10	67	166~169.6
⑥	612 B-580.2 1012 B-990.2	Ø10	9	1625.6~1560.4
⑦	612 B-580.2 1012 B-990.2	Ø12	9	1625.6~1560.4
⑧	61-62.5	Ø8	134	71~72.5



PLAN OF REINFORCEMENT FOR  
SPECIAL COVER AT THE TURNING  
(LOWER STREAM)

PLAN OF REINFORCEMENT FOR  
SPECIAL COVER AT THE TURNING  
(UPPER STREAM)



PLAN OF REINFORCEMENT FOR BOTTOM SLAB

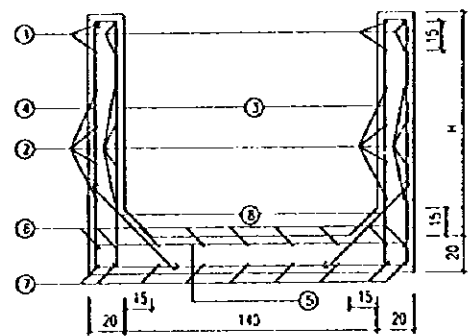
QUANTITIES

TYPE	Ø8	Ø10	Ø12	C25 CONCRETE	C30 CONCRETE
	kg	kg	kg	m <sup>3</sup>	m <sup>3</sup>
DITCH	175	158	451	10.54	—
SPECIAL COVERS	5	—	28	—	0.79

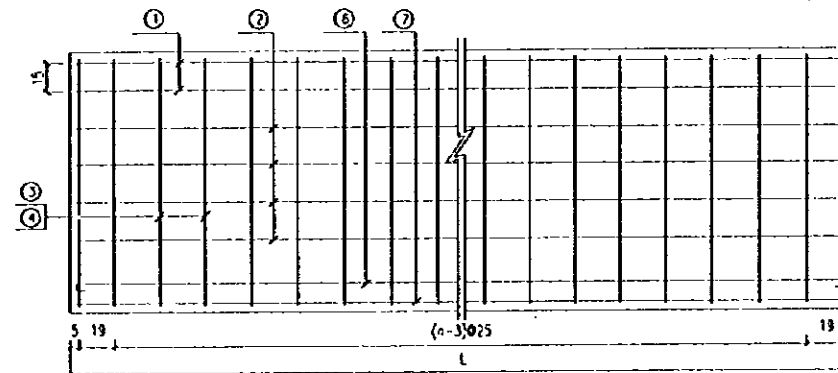
NOTE

- Unit: cm .
- Special covers at the turning are in-situ placed, using C30 concrete .

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT FOR TURNING OF TYPE 1 RC DITCH (A2)	
SCALE	DWG1-D8(1/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE I RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

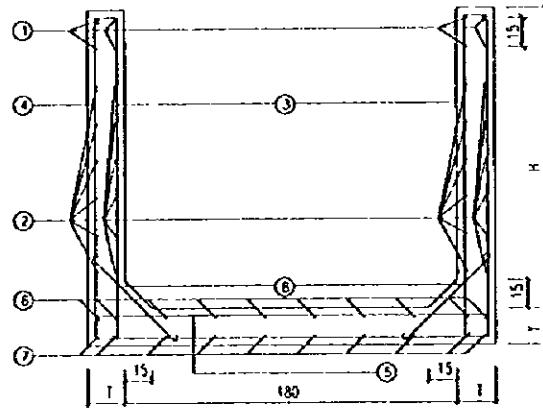
No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	—	L-7
②	L-7	φ8	m	—	L-7
③	$\begin{array}{c} \text{I} \\ \text{I} \\ \text{I} \end{array}$	φ8	2n	25	H+36
④	$\begin{array}{c} \text{I} \\ \text{I} \\ \text{I} \end{array}$	φ12	n	25	2H+214
⑤	$\begin{array}{c} \text{I} \\ \text{I} \\ \text{I} \end{array}$	φ10	n	25	186
⑥	L-7	φ10	9	—	L+6
⑦	L-7	φ12	9	—	L-7
⑧	$\begin{array}{c} \text{I} \\ \text{I} \\ \text{I} \end{array}$	φ8	2n	25	71

SEGMENTS AND QUANTITIES OF MATERIALS

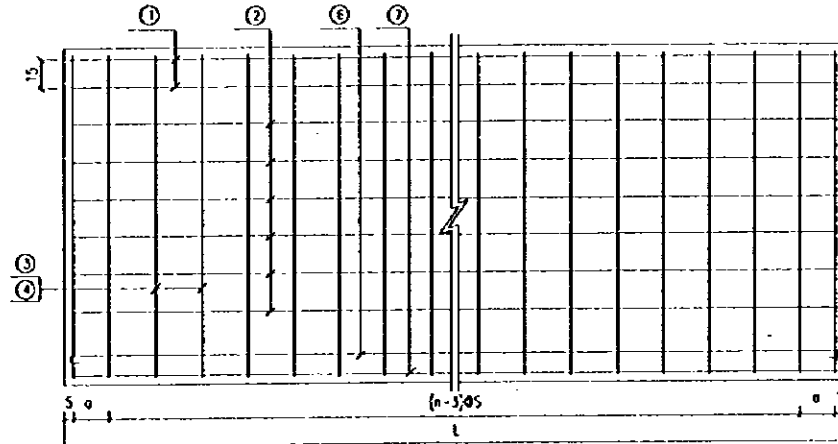
STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H L		m	n	QUANTITIES OF REINFORCEMENT (kg)			C25 CONCRETE (m <sup>3</sup> )
		(cm)	(cm)			φ8	φ10	φ12	
P246+34 ~ P246+20 H202+20 ~ H202+20	1	73~76	1398	8	57	125.7	143.4	393.7	9.513
P246+20 ~ P242+00 H202+20 ~ H202+20	9	76~111	1998	12	81	2004.1	1838.2	5300.9	136.034
P242+00 ~ P241+20 H202+20 ~ H202+20	1	111~138	1998	16	81	274.0	204.2	633.6	17.592
TOTAL						2403.8	2185.8	6328.2	163.139

NOTE:  
1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE I RC DITCH(A2)	
SCALE $\frac{1}{100}$	DWG1-D8(S/SS)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H	T	L S o m n				QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m <sup>3</sup> )	
				(cm)				ø8	ø10	ø12	ø14		
P237+00 ~ P232+00 H202+20 ~ H202+20	10	126~140	20	1938	25	19	20	81	3108.7	2365.9	6922.7	0	198.701
P232+00 ~ P231+20 H202+20 ~ H202+20	1	140~165	20	1938	20	14	24	101	245.4	503.2	318.2	686.8	21.429
P227+20 ~ P227+00 H202+20 ~ H202+20	1	196~175	20	1938	20	14	32	101	308.3	544.3	318.2	767.5	24.066
P227+00 ~ P226+00 H202+20 ~ H202+20	2	175~138	20	1938	20	14	24	101	430.8	1016.3	636.5	1393.2	43.497
P226+00 ~ P223+00 H202+20 ~ H202+20	8	138~149	20	1938	25	19	20	81	2540.7	1892.8	5659.0	0	165.674
P222+00 ~ P221+00 H202+20 ~ H202+20	2	149~190	20	1938	20	14	28	101	553.7	1048.7	636.5	1456.7	45.574
P219+00 ~ P218+00 H202+20 ~ H202+20	2	196~160	20	1938	20	14	28	101	553.7	1069.9	636.5	1498.3	46.933
P218+00 ~ P209+00 H202+20 ~ H202+20	18	160~185	20	1938	20	14	28	101	4983.4	9505.5	5728.3	13242.7	414.485
P209+00 ~ P208+00 H202+20 ~ H202+20	2	185~195	20	1938	20	14	32	101	616.6	1099.8	636.5	1557.0	48.851
P204+00 ~ P202+00 H202+20 ~ H202+20	4	209~215	25	1998	20	14	36	101	1403.8	2384.0	1273.0	3426.8	132.467
P202+00 ~ P201+20 H202+20 ~ H202+20	1	215~260	25	1998	20	14	40	101	382.4	627.8	318.2	919.0	35.664
TOTAL									15187.5	22058.2	23083.6	24948.0	1177.341

BENDING SCHEDULE

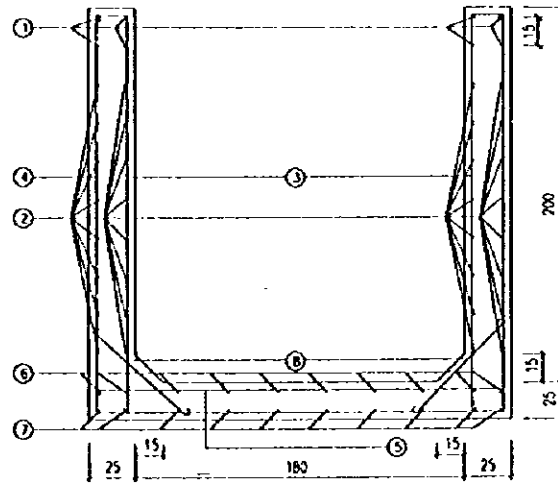
No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	ø12	8	—	L-7
②	L-7	ø8	m	—	L-7
③	$\frac{13}{13}$ H <sub>149</sub>	ø8	2n	25	H+36
	$\frac{13}{13}$ H <sub>149</sub> CH <sub>200</sub>	ø10	2n	20	H+39
	$\frac{13}{13}$ H <sub>149</sub> CH <sub>260</sub>	ø10	2n	20	H+49
④	$\frac{213}{213}$ H <sub>149</sub>	ø12	n	25	2H+254
	$\frac{213}{213}$ H <sub>149</sub> CH <sub>200</sub>	ø14	n	20	2H+257
	$\frac{213}{213}$ H <sub>149</sub> CH <sub>260</sub>	ø14	n	20	2H+277
⑤	$\frac{213}{213}$ H <sub>200</sub>	ø10	n	os ③	226
	$\frac{223}{223}$ H <sub>200</sub> CH <sub>260</sub>	ø10	n	os ③	236
⑥	L-7	ø10	10	—	L+6
⑦	L-7	ø12	10	—	L-7
⑧	$\frac{61}{61}$ H <sub>200</sub>	ø8	2n	os ③	71
	$\frac{75}{75}$ H <sub>200</sub> CH <sub>200</sub>	ø8	2n	os ③	85

NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 RC DITCH(A2)	
SCALE	DWG1-08(6/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	

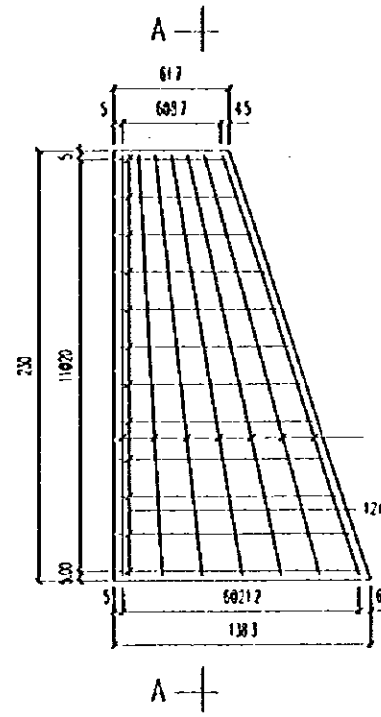




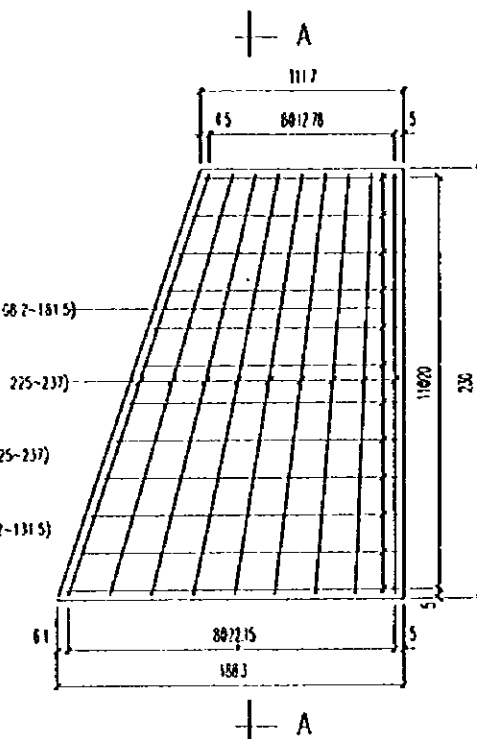
CROSS SECTION OF REINFORCEMENT  
(TYPE 1 RC CULVERT)

BENDING SCHEDULE

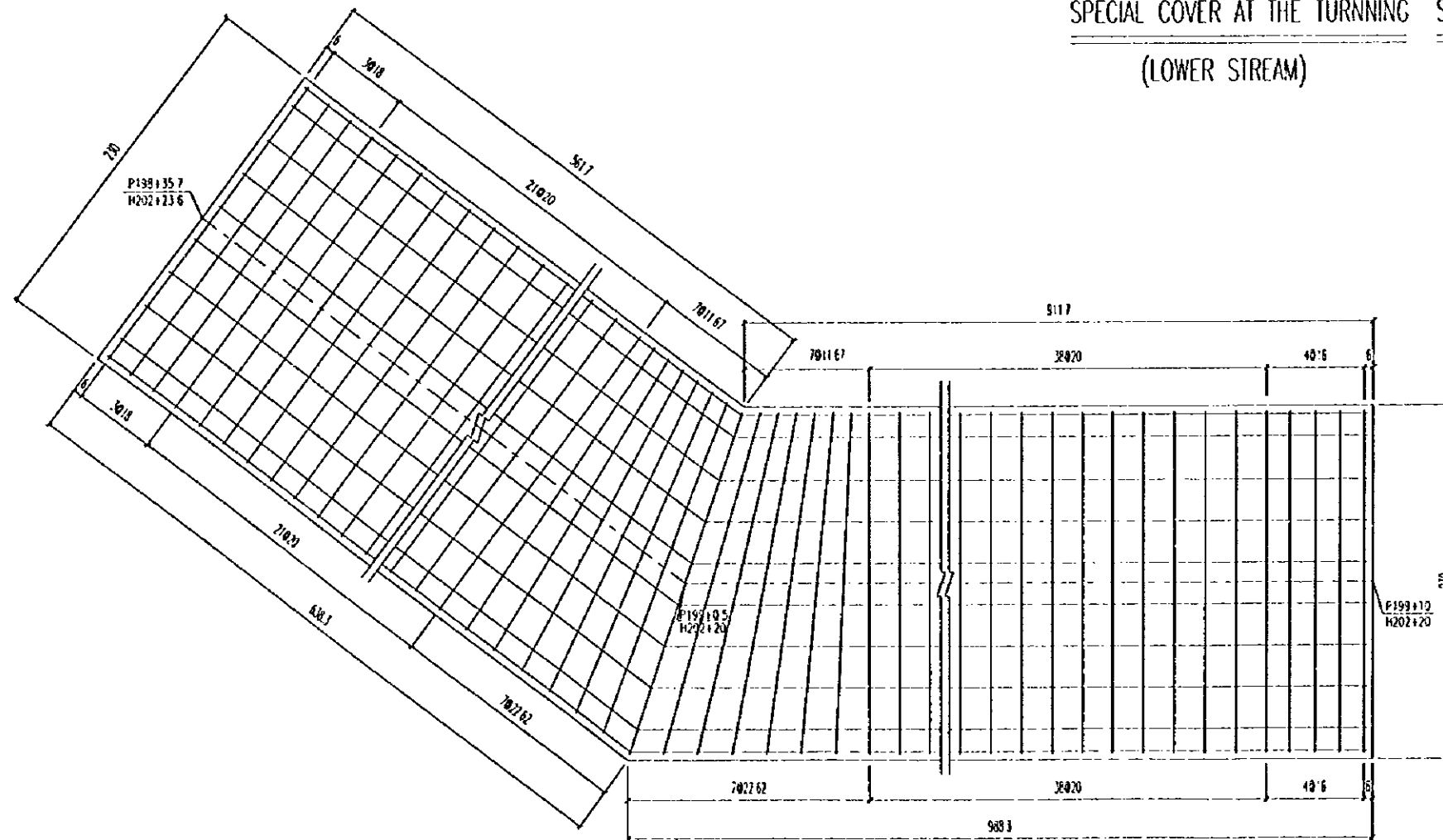
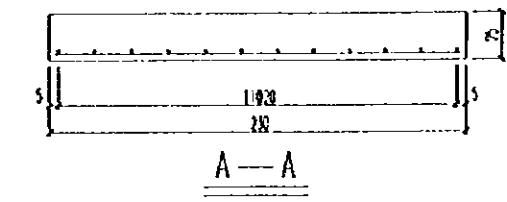
No.	Shape (cm)	Dia. (mm)	No's	Length (cm)
①	6330-5000 9835-9100	φ12	8	1616~1470
②	6330-5000 9835-9100	φ8	32	1616~1470
③	18-19 216	φ10	162	249~250
④	223-235.1	φ14	81	677~689.1
⑤	223-235.1	φ10	81	236~248.1
⑥	6330-5000 9835-9100	φ10	10	1616~1470
⑦	6330-5000 9835-9100	φ12	10	1616~1470
⑧	75-79.1	φ8	162	85~89.1



PLAN OF REINFORCEMENT FOR  
SPECIAL COVER AT THE TURNING  
(LOWER STREAM)



PLAN OF REINFORCEMENT FOR  
SPECIAL COVER AT THE TURNING  
(UPPER STREAM)



PLAN OF REINFORCEMENT FOR BOTTOM SLAB

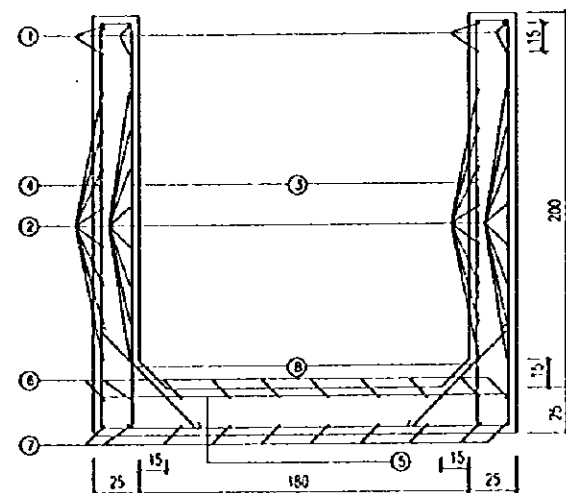
QUANTITIES

ITEM	φ8	φ10	φ12	φ14	φ16	C25 CONCRETE	C30 CONCRETE
	kg	kg	kg	kg	kg	m <sup>3</sup>	m <sup>3</sup>
DITCH	252	463	247	666	—	24.77	—
SPECIAL COVERS	12	—	—	—	59	—	1.44

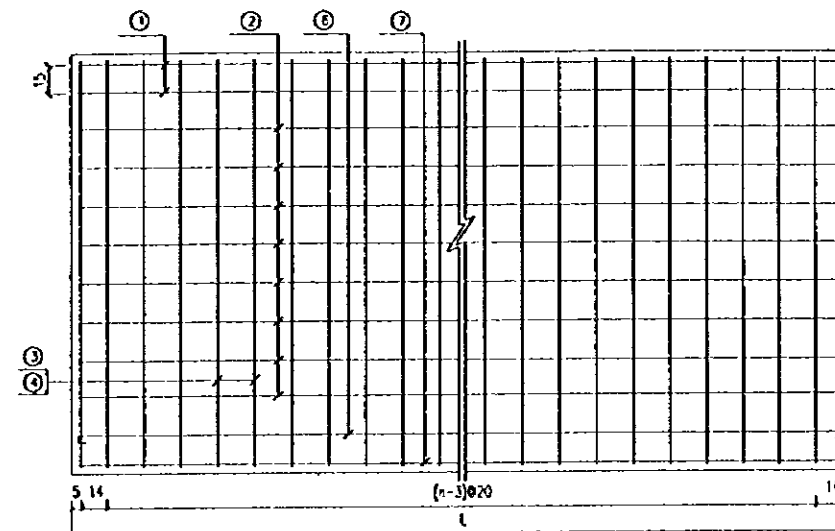
NOTE

- Unit: cm .
- Special covers at the turning are in-situ placed, using C30 concrete .

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT FOR TURNING OF TYPE 1 RC CULVERT (A2)	
SCALE	DWG1 D2(7/8S)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	—	L-7
②	L-7	φ8	32	—	L-7
③		φ10	2n	20	249
④		φ14	n	20	677
⑤		φ10	n	20	236
⑥	L-7	φ10	10	—	L+6
⑦	L-7	φ12	10	—	L-7
⑧	L-7	φ8	2n	20	85

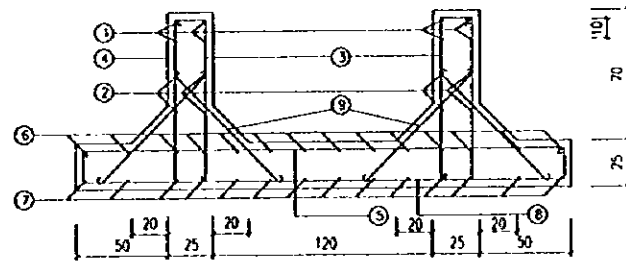
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	n	QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m <sup>3</sup> )
				φ8	φ10	φ12	φ14	
P208+00 ~ P207+00 H202+20 ~ H202+20	2	1998	101	639.0	1162.1	636.5	1654.7	63.836
P205+00 ~ P204+00 H202+20 ~ H202+20	2	1998	101	639.0	1162.1	636.5	1654.7	63.836
P198+35.7 ~ P193+22.1 H202+23.6 ~ H202+33.8	1	1698	86	271.5	494.6	270.3	704.5	27.126
P198+22.1 ~ P197+14.1 H202+33.8 ~ H203+29.8	3	1998	101	958.5	1743.2	954.7	2482.1	95.754
TOTAL				2508.0	4562.0	2498.0	6496.0	250.552

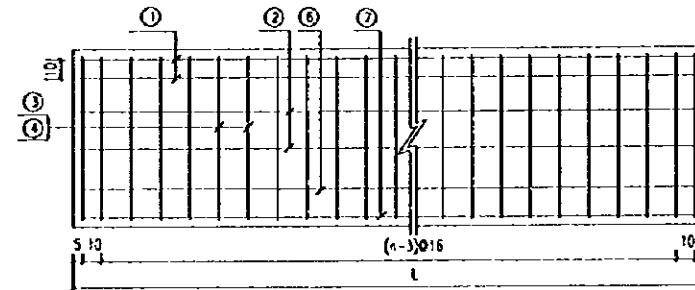
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
REINFORCEMENT OF TYPE 1 RC CULVERT(A2)	
SCALE	DWG1-DB(8/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	n	QUANTITIES OF REINFORCEMENT (m)				C25 CONCRETE (m <sup>3</sup> )
				φ10	φ12	φ16	φ18	
P249+27.27 - P249+20 H203+29.16 - H203+25.83	1	798	51	233.5	377.7	100.0	443.0	8.818
P249+20 - P247+9.09 H203+25.83 - H202+24.17	5	1998	126	2893.6	4665.7	1258.3	5574.8	110.390
TOTAL				3127.1	5043.4	1358.3	6017.8	119.208

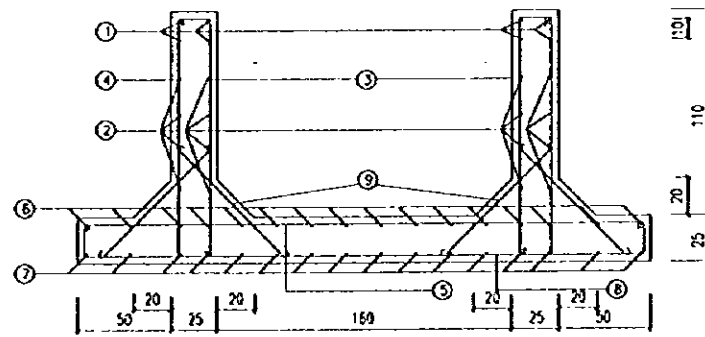
BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	---	L-7
②	L-7	φ10	8	---	L-7
③		φ10	2n	16	119
④		φ12	2n	16	121
⑤		φ12	n	16	278
⑥	L-7	φ18	14	---	L-7
⑦	L-7	φ18	14	---	L-7
⑧		φ12	n	16	314
⑨		φ10	4n	16	95

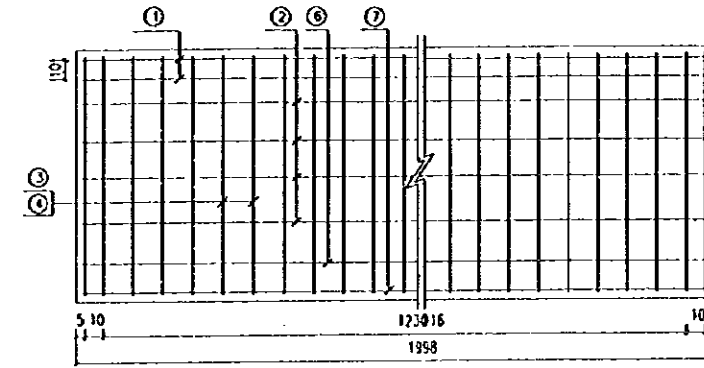
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
REINFORCEMENT OF TYPE 2 RC CULVERT(A2)	
SCALE	DWG1-08(9/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
①	—1991	∅16	8	—	1991	159.28	251.7
②	—1991	∅10	16	—	1991	318.56	196.6
③		∅10	252	16	159	400.68	247.2
④		∅12	252	16	161	405.72	360.3
⑤		∅14	126	16	321	404.46	489.4
⑥	—1991	∅18	16	—	1991	318.56	637.1
⑦	—1991	∅18	16	—	1991	318.56	637.1
⑧		∅12	126	16	354	446.04	396.1
⑨		∅10	504	16	95	478.8	295.4

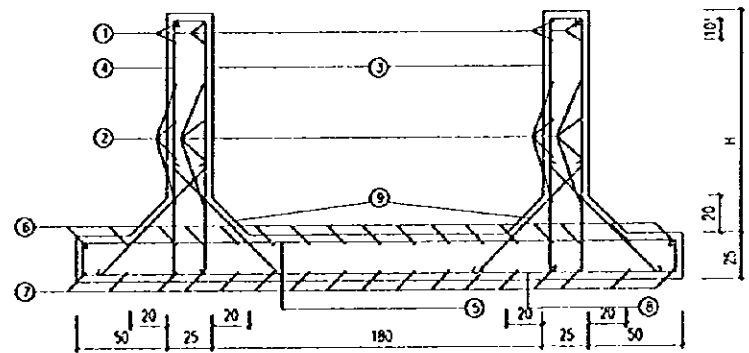
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
		∅10	∅12	∅14	∅16	∅18	
P241+20 ~ P237+00 M202+20 ~ M202+20	9	6652.8	6807.6	4404.6	2265.3	11467.8	252.647
TOTAL		6652.8	6807.6	4404.6	2265.3	11467.8	252.647

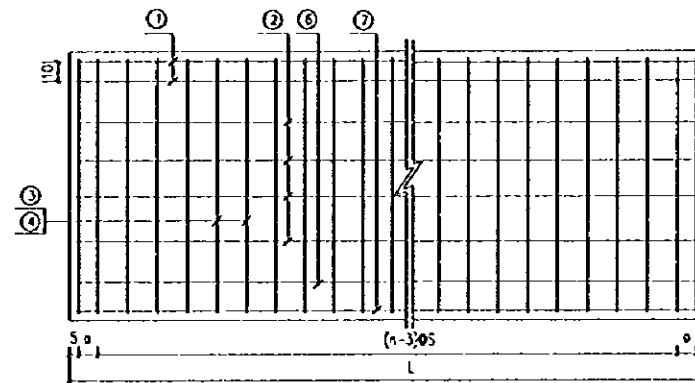
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT(A2)	
SCALE	DWG1-D8(10/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	—	L-7
②	L-7	φ10	n	—	L-7
③	$\begin{array}{l} \text{20} \\ \text{H}+10 \\ \text{60} \\ \text{H}+10 \end{array}$	20<H<160	2n	16	H+51
		60<H<200	2n	12.5	H+51
④	$\begin{array}{l} \text{20} \\ \text{H}+10 \\ \text{60} \\ \text{H}+10 \end{array}$	20<H<160	2n	16	H+54
		60<H<200	2n	12.5	H+56
⑤	323	φ16	n	os③	343
⑥	L-7	φ18	17	—	L-7
⑦	L-7	φ18	17	—	L-7
⑧	$\begin{array}{l} \text{20} \\ \text{H}+10 \\ \text{60} \\ \text{H}+10 \end{array}$	20<H<160	n	os③	377
		60<H<200	n	os③	379
⑨	82	φ10	4n	os③	95

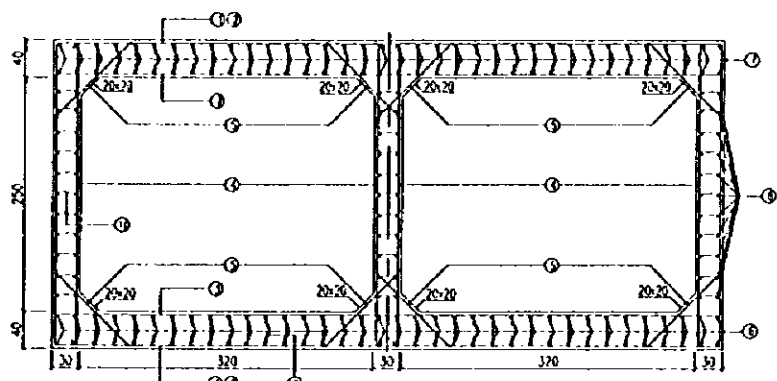
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H	L S a m n				QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )	
			(cm)	(cm)	(cm)	(cm)	φ10	φ12	φ14	φ16	φ18		
P227+20 ~ P231+20 H202+20 ~ H202+20	8	140	1998	16	10	24	126	4722.0	3419.3	9330.6	7476.1	10831.0	256.543
P219+00 ~ P221+00 H202+20 ~ H202+20	4	180	1998	12.5	6.5	32	161	3082.3	2642.1	0	13155.8	5415.5	144.256
P205+00 ~ P207+00 H202+20 ~ H202+20	4	200	1998	12.5	6.5	36	161	3278.9	2870.8	0	13562.9	5415.5	152.248
P199+20 ~ P201+20 H202+20 ~ H202+20	4	200	1998	12.5	6.5	36	161	3278.9	2870.8	0	13562.9	5415.5	152.248
P199+10 ~ P199+20 H202+20 ~ H202+20	1	200	998	12.5	6.5	36	81	410.0	361.1	0	1704.5	673.9	19.012
TOTAL								14772.1	12164.1	9330.6	49462.2	27751.4	724.307

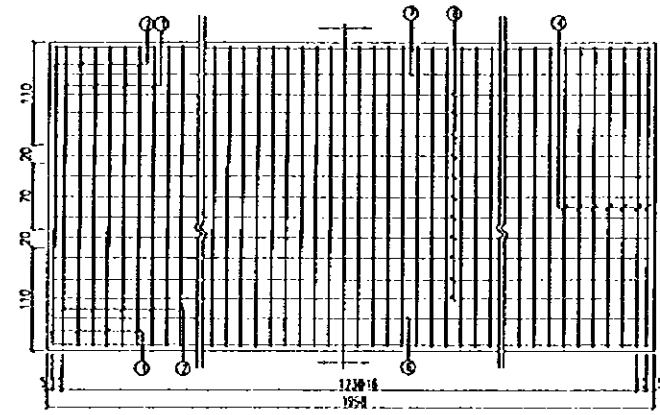
NOTE:

1. Unit : cm.

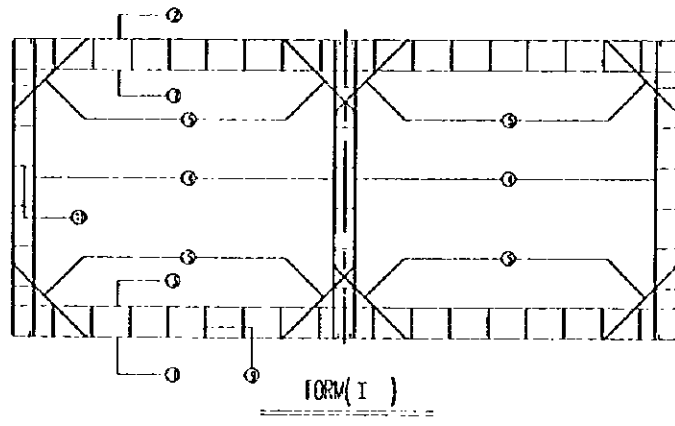
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT(A2)	
SCALE	DWG1-DB(11/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



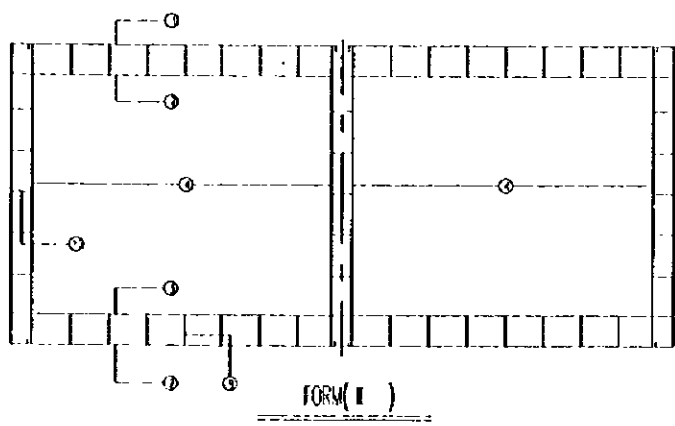
REINFORCEMENT OF TYPE 3 RC BOX CULVERT  
(CROSS SECTION)



(OUTSIDE) (INSIDE AND WOOD)  
REINFORCEMENT OF SIDE WALL



FORM ( I )



FORM ( II )

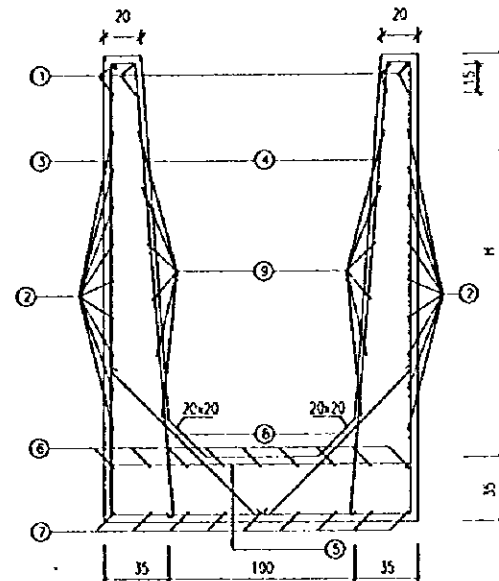
BENDING SCHEDULE

No.	DIAMETER (mm)	SHAPE (cm)	PITCH (cm)	LENGTH (cm)	No's	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
①	#18		16	976	126	1229.76	2459.5
②	#18		16	1156	176	1456.56	2913.1
③	#18		16	723	252	1821.96	3643.9
④	#14		16	541	504	1718.64	2073.6
⑤	#14		32	128	504	645.12	780.6
⑥	#14		--	1991	72	1433.52	1734.6
⑦	#12		--	1991	72	1433.52	1273.0
⑧	#12		--	1991	66	1314.06	810.8
⑨	#10		--	48	1780	1814.40	1119.5
⑩	#10		--	58	2079	799.02	487.4

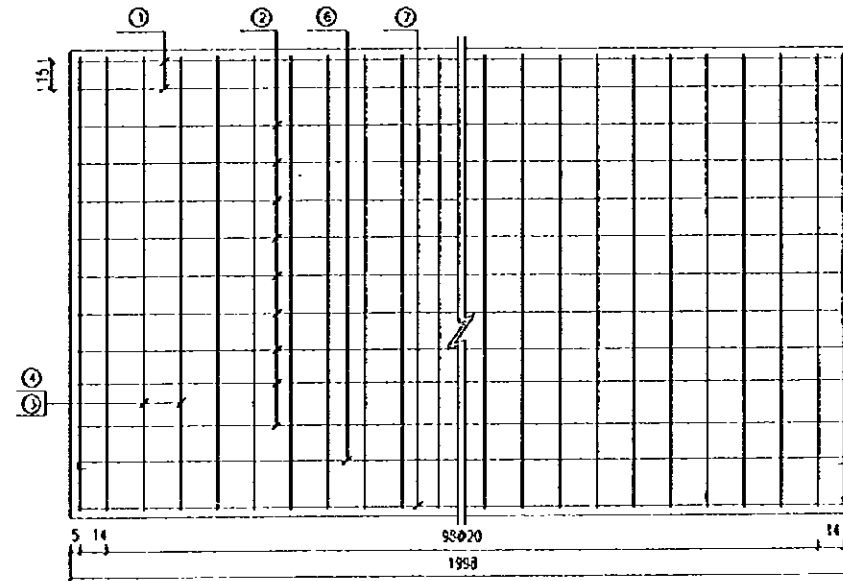
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m³)
		#10	#12	#14	#18	
P:20+20 - P:20+20 P:20+20 - P:20+20	6	14506.2	7638.0	27568.8	54093.0	933.010
P:190+25 - P:190+25 P:193+28 - P:193+28	1	2417.7	1273.0	4594.8	9016.5	154.835
TOTAL		16923.9	8911.0	32163.6	63109.5	1153.845

NOTE:  
1. Unit : cm.



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	—1991—	φ12	8	—	1991
②	—1991—	φ8	18	—	1991
③		φ14	101	20	2H+237
④		φ8	202	20	H+52
⑤		φ10	101	20	176
⑥		φ10	9	—	2004
⑦	—1991—	φ12	9	—	1991
⑧		φ8	202	20	119
⑨	—1991—	φ8	12	—	1991

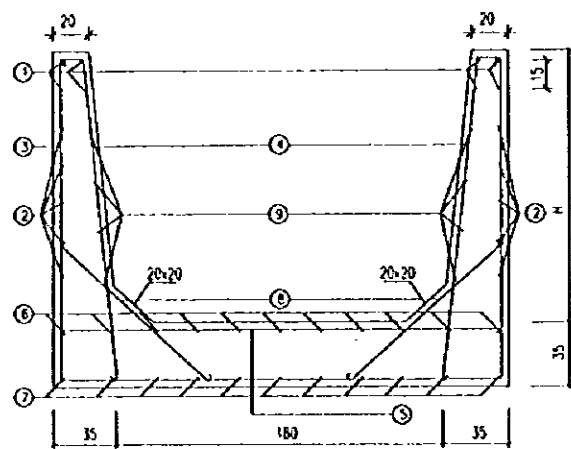
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m <sup>3</sup> )
			φ8	φ10	φ12	φ14	
P247+00 ~ P245+20 H206+9.5 ~ H206+9.5	3	208~213	1621.0	662.9	901.7	2412.4	107.457
TOTAL			1621.0	662.9	901.7	2412.4	107.457

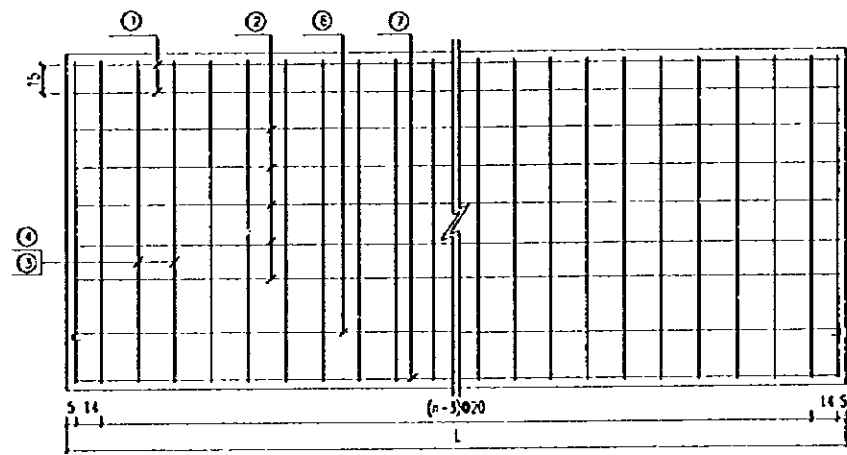
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A)	
SCALE	DWG1-08(13/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	—	L-7
②	L-7	φ8	m1	—	L-7
③	$\begin{matrix} H+20 \\ 243 \\ H+20 \end{matrix}$	φ14	n	20	2H+317
④	$\begin{matrix} 11 \\ H+20 \end{matrix}$	φ8	2n	20	H+52
⑤	243	φ10	n	20	256
⑥	L-7	φ10	11	—	L+6
⑦	L-7	φ12	11	—	L-7
⑧	$\begin{matrix} 109 \\ 109 \end{matrix}$	φ8	2n	20	119
⑨	L-7	φ8	m2	—	L-7

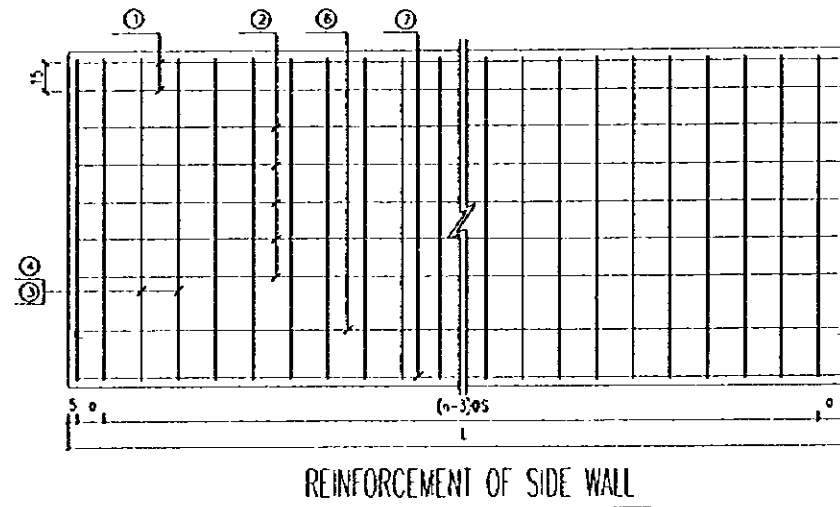
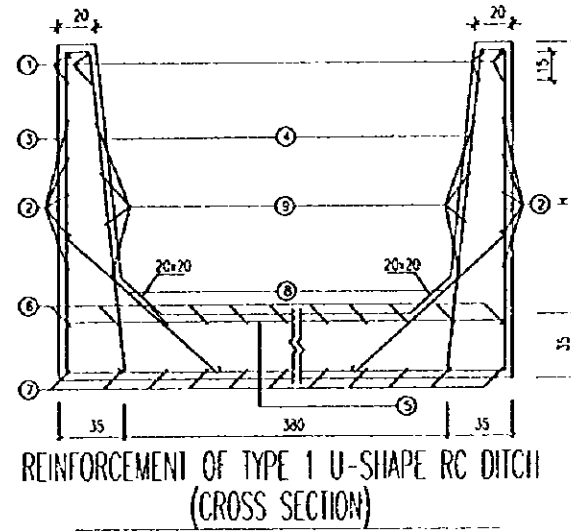
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)			L (cm)			QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m <sup>3</sup> )
		m1	m2	n	m1	m2	n	φ8	φ10	φ12	φ14	
P245+20 ~ P245+00 H206+9.5 ~ H206+9.5	1	213	215	1998	18	12	101	543.1	295.5	335.9	910.5	41.798
P245+00 ~ P240+00 H206+9.5 ~ H206+9.5	10	215	229	1998	18	12	101	5495.1	2955.4	3359.2	9300.2	426.773
P240+00 ~ P239+13 H206+9.5 ~ H206+9.5	1	229	243	2698	20	12	136	779.0	398.3	454.0	1303.5	59.929
P239+13 ~ P237+00 H206+9.5 ~ H206+9.5	1	251	237	1298	20	14	66	389.8	192.8	217.8	642.9	29.296
P237+00 ~ P236+20 H206+9.5 ~ H206+9.5	1	237	235	1998	20	12	101	578.0	295.5	335.9	969.1	44.436
P236+20 ~ P235+33 H206+9.5 ~ H206+9.5	1	239	241	2698	20	14	136	803.0	398.3	454.0	1311.5	60.300
TOTAL								8588.0	4535.8	5156.8	14437.5	662.532

NOTE:  
1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A3)	
SCALE 1:100	DWG1-08(14/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	





**BENDING SCHEDULE**

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	—	L-7
②	L-7	φ8	m1	—	L-7
③	L-7	200<math>\phi</math>25	n	20	2H+517
		251<math>\phi</math>30	n	15	2H+519
④	L-7	φ8	2n	os ③	H+52
⑤	L-7	φ10	n	os ③	456
⑥	L-7	φ10	19	—	L16
⑦	L-7	φ12	19	—	L-7
⑧	L-7	φ8	2n	os ③	119
⑨	L-7	φ8	m2	—	L-7

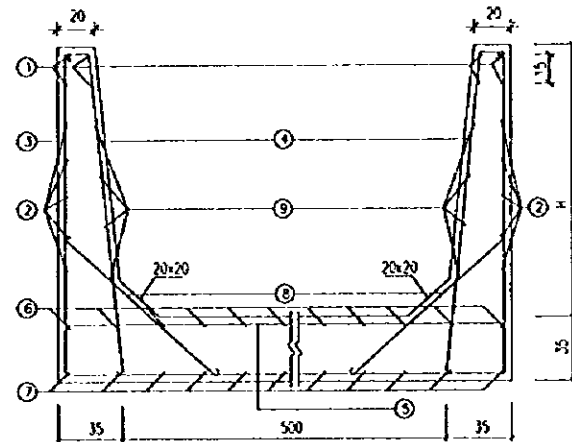
**SEGMENTS AND QUANTITIES OF MATERIALS**

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	II							QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
		L	S	a	m1	m2	n	φ8	φ10	φ12	φ14	φ16		
P235+33 ~ P235+20 H206+95 ~ H206+95	1	241~242	1298	20	14	20	14	66	388.5	338.6	309.5	798.6	0	38.203
P235+20 ~ P232+00 H206+95 ~ H206+95	7	242~251	1998	20	14	22	14	101	4313.7	3633.7	3341.5	8640.2	0	415.489
P232+00 ~ P231+15 H206+95 ~ H206+95	1	251~270	2498	15	14	22	14	167	923.5	763.4	597.2	0	2744.1	76.133
P229+15 ~ P229+05 H206+95 ~ H206+95	1	276~260	938	15	14	24	14	67	381.1	306.2	237.6	0	1116.8	30.828
P229+05 ~ P228+35 H206+95 ~ H206+95	1	260~278	998	15	14	24	14	67	381.6	306.2	237.6	0	1118.9	30.883
P226+35 ~ P226+18 H206+95 ~ H206+95	1	281~266	1698	15	11.5	24	16	114	667.5	520.5	405.4	0	1920.1	52.965
P226+18 ~ P221+38 H206+95 ~ H206+95	9	266~280	1998	15	11.5	24	16	134	7061.4	5507.5	4296.3	0	20293.4	560.409
P221+38 ~ P221+13 H206+95 ~ H206+95	1	280~282	2498	15	14	24	16	167	989.9	763.4	597.2	0	2852.3	78.949
P221+13 ~ P221+00 H206+95 ~ H206+95	1	282~299	1298	15	14	26	16	87	531.4	397.6	309.5	0	1512.1	41.702
P219+00 ~ P218+27 H206+95 ~ H206+95	1	306~292	1248	15	11.5	26	16	84	517.8	383.3	297.5	0	1482.5	40.679
P218+27 ~ P218+20 H206+95 ~ H206+95	1	292~293	748	15	9	26	16	51	309.7	231.9	177.7	0	889.6	24.114
TOTAL									16466.	13152.	10807.0	9438.8	33929.8	1390.354

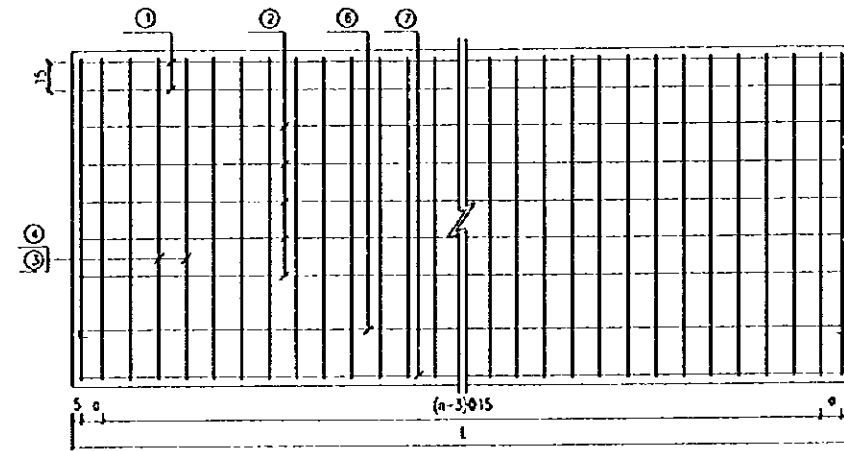
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A3)	
SCALE	DWG1-D8(15/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 3 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	Ø12	8	—	L-7
②	L-7	Ø8	m1	—	L-7
③	S81	250 x 300	n	15	2H+639
		300 x 322	n	15	2H+619
		322 x 350	n	15	2H+619
④	S81	Ø8	2n	15	H+52
⑤	S81	Ø10	n	15	576
⑥	L-7	Ø10	24	—	L+6
⑦	L-7	Ø12	24	—	L-7
⑧	L-7	Ø8	2n	15	119
⑨	L-7	Ø8	m2	—	L-7

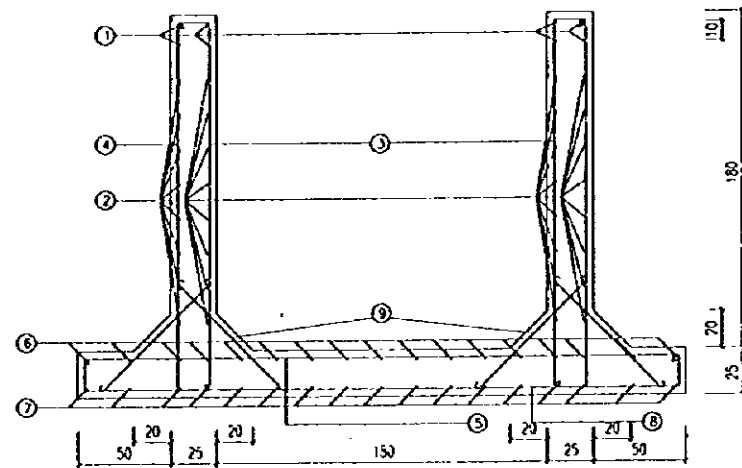
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)						QUANTITIES OF REINFORCEMENT (kg)						C25 CONCRETE (m <sup>3</sup> )
		l	o	m1	m2	n	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25		
P218+20 ~ P217+37 H206+9.5 ~ H206+9.5	1	293~300	2298	11.5	26	16	154	948.8	888.5	651.0	2997.7	0	0	84.239
P217+37 ~ P217+17 H206+9.5 ~ H206+9.5	1	300~310	1998	11.5	28	18	134	865.7	775.0	565.8	0	4066.1	0	74.176
P215+17 ~ P215+14.5 H206+9.5 ~ H206+9.5	1	314~299	1248	11.5	28	18	84	542.4	484.2	352.6	0	2555.1	0	46.435
P215+14.5 ~ P214+30 H206+9.5 ~ H206+9.5	1	299~300	1448	14	26	16	97	599.6	560.0	409.5	1897.4	0	0	53.319
P214+30 ~ P207+10 H206+9.5 ~ H206+9.5	15	300~322	1938	11.5	28	18	134	13080.2	11594.7	8486.4	0	61587.0	0	1122.530
P207+10 ~ P206+35 H206+9.5 ~ H206+9.5	1	322~338	1498	9	30	20	101	694.2	581.7	423.7	0	0	4982.4	57.673
P204+35 ~ P204+22 H206+9.5 ~ H206+9.5	1	344~327	1298	14	30	20	87	603.1	502.3	366.9	0	0	4328.7	50.366
P204+22 ~ P204+00 H206+9.5 ~ H206+9.5	1	327~329	2198	14	30	18	147	994.9	848.8	622.6	0	0	7229.0	84.381
P204+00 ~ P201+20 H206+9.5 ~ H206+9.5	5	329~337	1998	11.5	30	20	134	4633.8	3864.9	2828.8	0	0	33206.8	386.263
TOTAL								22962.7	20098.1	14707.3	4895.1	68208.2	49746.9	1959.382

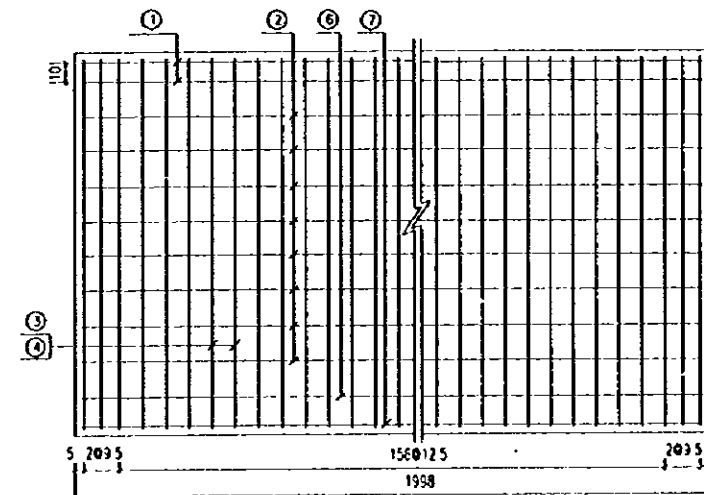
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DUCT(A3)	
SCALE	DWG-1-D8(16/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
①	—1991	φ16	8	—	1991	159.28	251.7
②	—1991	φ10	32	—	1991	637.12	393.1
③		φ12	322	12.5	231	743.82	660.5
④		φ16	322	12.5	236	759.92	1200.7
⑤		φ16	161	12.5	343	552.23	872.5
⑥	—1991	φ18	17	—	1991	338.47	676.9
⑦	—1991	φ18	17	—	1991	338.47	676.9
⑧		φ16	161	12.5	379	610.19	964.1
⑨		φ10	644	12.5	95	611.8	377.5

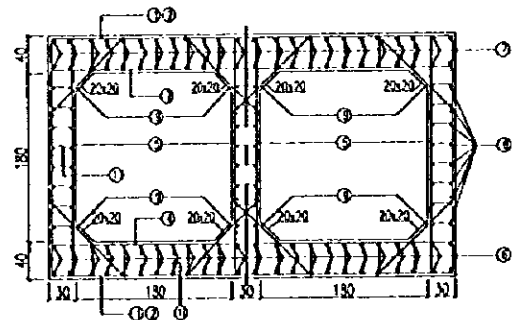
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m <sup>3</sup> )
		φ10	φ12	φ16	φ18	
P239+13 P237+13 H206+9.5 H206+9.5	4	3082.4	2642.0	13156.0	5415.2	144.256
TOTAL		3082.4	2642.0	13156.0	5415.2	144.256

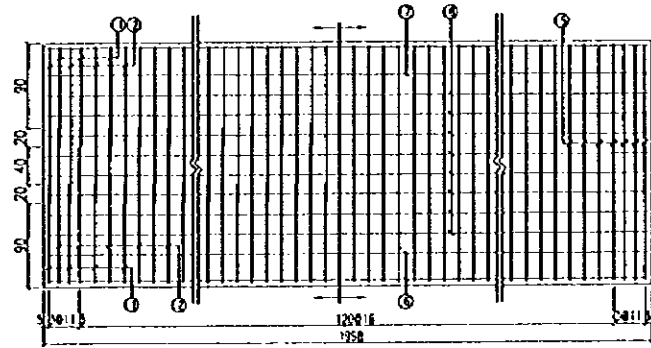
NOTE:

1. Unit : cm.

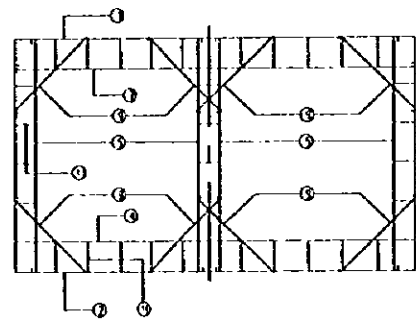
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT(A3)	
SCALE	DWG1-08(17/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



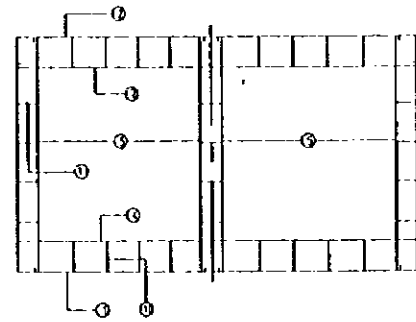
REINFORCEMENT OF TYPE 2 BOX CULVERT  
(CROSS SECTION)



(OUTSIDE) (INSIDE AND MIDDLE)  
REINFORCEMENT OF SIDE WALL



FORM ( I )



FORM ( I )

BENDING SCHEDULE

No	DIAMETER (mm)	SHAPE (cm)	PITCH (cm)	LENGTH (cm)	No's	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
①	#16		16	656	127	833.92	1316.3
②	#16		16	776	127	985.52	1557.1
③	#16		16	463	127	588.01	929.1
④	#20		16	443	127	562.61	1388.5
⑤	#12		16	268	508	1361.44	1209.0
⑥	#18		-	1391	48	955.68	1918.4
⑦	#16		-	1391	48	955.68	1510.0
⑧	#10		-	1391	48	955.68	589.7
⑨	#12		32	125	512	643.00	568.3
⑩	#10		-	48	2288	1098.24	677.6
⑪	#10		-	38	1524	579.12	357.3

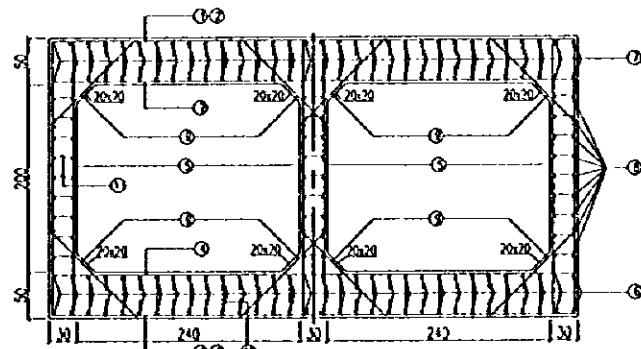
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m³)
		#10	#12	#16	#18	#20	
P221+18 - P221+35 +206+95	4	6438.4	7109.2	21250.0	7645.6	5554.0	429.970
P228+25 - P228+42 +206+95	4	6438.4	7109.2	21250.0	7645.6	5554.0	429.970
P235+01 - P235+18 +206+95	4	6438.4	7109.2	21250.0	7645.6	5554.0	429.970
TOTAL		19435.2	21327.6	63750.0	22936.8	16662.0	1289.910

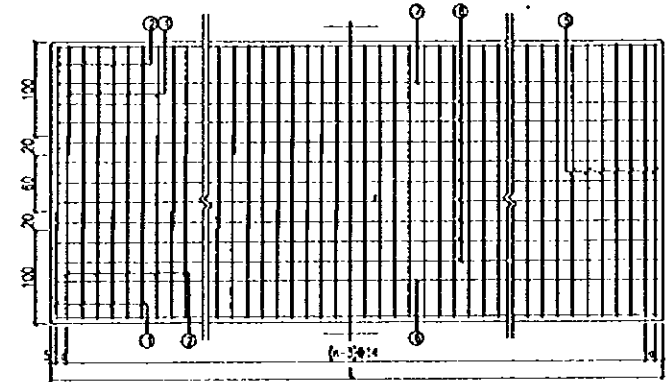
NOTE:

1. Unit : cm.

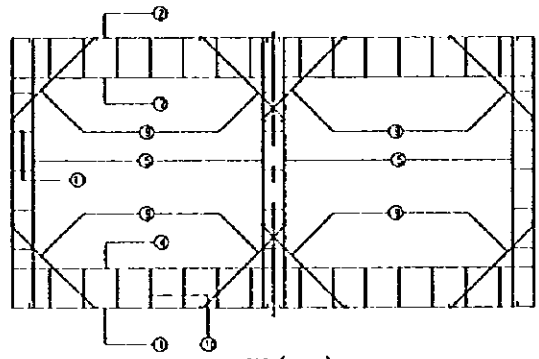
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 BOX CULVERT(A3)	
SCALE	1:100
DWC1-D8(18/85)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



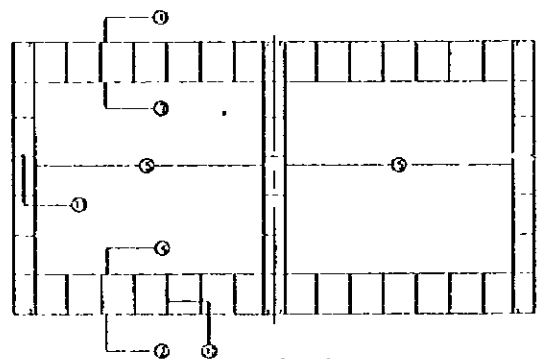
REINFORCEMENT OF TYPE 2 BOX CULVERT  
(CROSS SECTION)



(OUTSIDE) (INSIDE AND WALL)  
REINFORCEMENT OF SIDE WALL



FORM ( I )



FORM ( II )

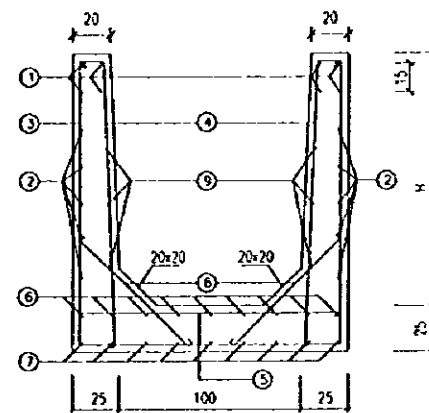
BENDING SCHEDULE

No	DIAMETER (mm)	SHAPE (cm)	SEPARATION (cm)	LENGTH (cm)	No's
①	#18		14	796	n
②	#18		14	956	n
③	#18		14	563	n
④	#22		14	563	n
⑤	#14		14	311	4n
⑥	#18		—	L-7	64
⑦	#16		—	L-7	64
⑧	#10		—	L-7	54
⑨	#14		29	143	4(n+1)
⑩	#10		—	58	m1
⑪	#10		—	38	m2

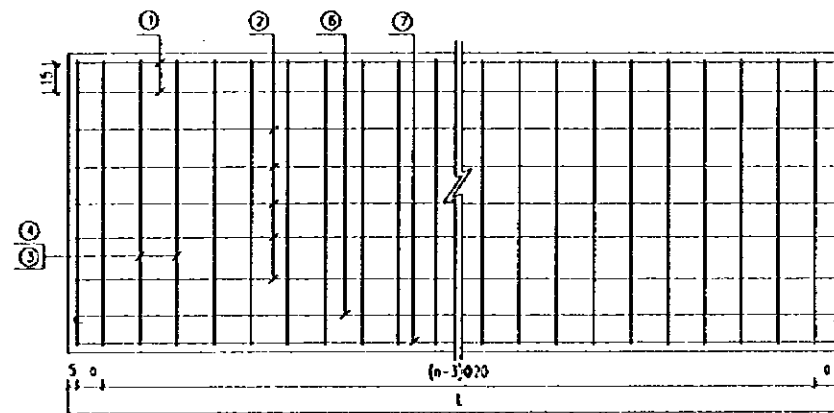
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	a	n	m1	m2	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
							#10	#14	#16	#18	#22	
P21+0.12 ~ P25+1.12 R06+9.5 ~ R06+9.5	4	1958	14	14	3720	1932	9790.4	12536.8	8053.2	36678.0	9519.2	612.187
P26+0.95 ~ P29+0.95 R06+9.5 ~ R06+9.5	4	1958	14	14	3720	1932	9790.4	12536.8	8053.2	36678.0	9519.2	612.187
P30+0.20 ~ P33+0.20 R06+9.5 ~ R06+9.5	4	1958	14	14	3720	1932	9790.4	12536.8	8053.2	36678.0	9519.2	612.187
P37+0.20 ~ P39+0.14 R06+9.5 ~ R06+9.5	1	693	8	51	1329	690	867.2	1127.6	639.7	3245.8	857.7	53.467
TOTAL							30238.4	38319.0	24958.3	113279.8	29715.3	1830.028

NOTE:  
1. Unit : cm.



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	L (cm)	a (cm)	n	QUANTITIES OF REINFORCEMENT (kg)			C25 CONCRETE (m <sup>3</sup> )
						φ8	φ10	φ12	
P245+30 ~ P245+30 H208+25 ~ H208+25	2	129~137	1998	14	10	674.5	417.0	1426.3	40.500
P245+30 ~ P245+10.9 H208+25 ~ H208+25	1	137~141	1908	19	96	325.7	198.7	689.3	19.853
TOTAL						1000.2	615.7	2115.6	60.353

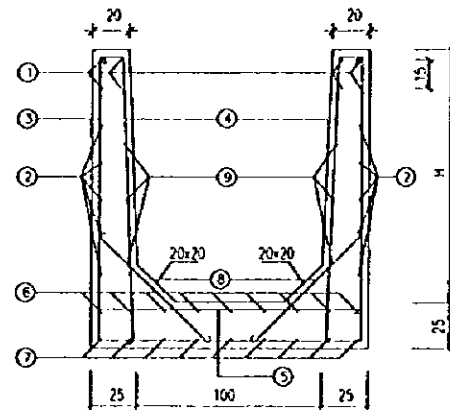
BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	—	L-7
②	L-7	φ8	10	—	L-7
③	$\left[ \begin{array}{c} 137 \\ 20 \end{array} \right]_{10}^{\circ}$	φ12	n	20	2H+194
④	$\left[ \begin{array}{c} 137 \\ 20 \end{array} \right]_{10}^{\circ}$	φ8	2n	20	H+41
⑤	143	φ10	n	20	156
⑥	L-7	φ10	9	—	L+6
⑦	L-7	φ12	9	—	L-7
⑧	81	φ8	2n	20	91
⑨	L-7	φ8	6	—	L-7

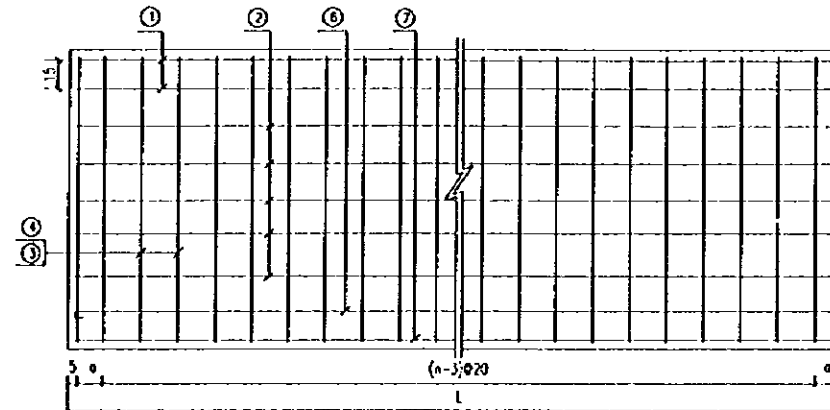
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A4-1)	
SCALE 1:20	01G1-DB(20/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	---	L-7
②	L-7	φ8	10	---	L-7
③	$\left[ \begin{array}{c} 13 \\ 13 \\ 13 \end{array} \right]_{\frac{20}{2}}$	φ12	n	20	21+194
④	$\left[ \begin{array}{c} 13 \\ 13 \\ 13 \end{array} \right]_{\frac{20}{2}}$	φ8	2n	20	H+41
⑤	$\left[ \begin{array}{c} 13 \\ 13 \\ 13 \end{array} \right]_{\frac{20}{2}}$	φ10	n	20	156
⑥	L-7	φ10	9	---	L+6
⑦	L-7	φ12	9	---	L-7
⑧	$\left[ \begin{array}{c} 13 \\ 13 \\ 13 \end{array} \right]_{\frac{20}{2}}$	φ8	2n	20	91
⑨	L-7	φ8	6	---	L-7

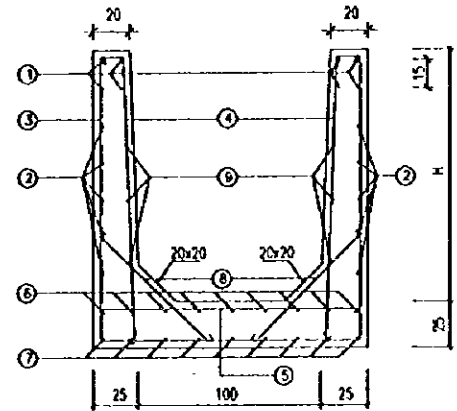
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H L a n				QUANTITIES OF REINFORCEMENT (m)			C25 CONCRETE (m <sup>3</sup> )
		(cm)				φ8	φ10	φ12	
P240+00 ~ P245+00 H208+25 ~ H208+25	10	120~140	1998	14	10	3348.8	2085.0	7077.4	199.8
P245+00 ~ P245+9.1 H208+25 ~ H208+25	1	140~141	908	19	46	156.0	95.0	330.0	9.509
TOTAL						3504.8	2180.0	7407.4	209.309

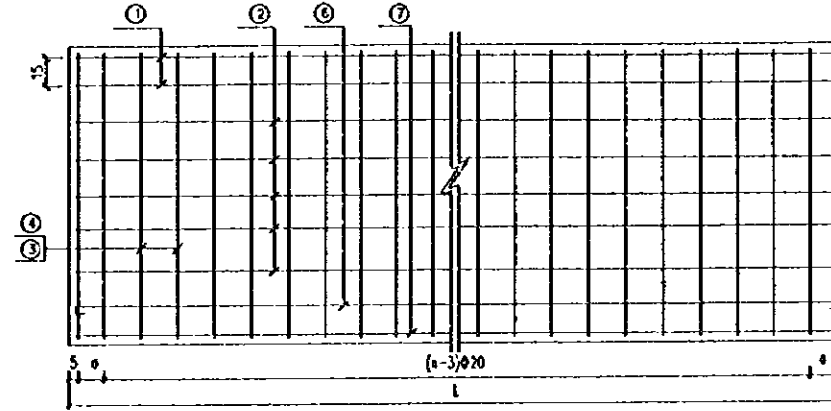
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A4-2)	
SCALE $\frac{1}{200}$	DWG-08(21/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	—	L-7
②	L-7	φ8	10	—	L-7
③	L <sub>153</sub> ±	φ12	n	20	2H+194
④	L <sub>153</sub> ±	φ8	2n	20	H+41
⑤	L <sub>143</sub>	φ10	n	20	156
⑥	L-7	φ10	9	—	L+6
⑦	L-7	φ12	9	—	L-7
⑧	L <sub>81</sub>	φ8	2n	20	91
⑨	L-7	φ8	6	—	L-7

SEGMENTS AND QUANTITIES OF MATERIALS

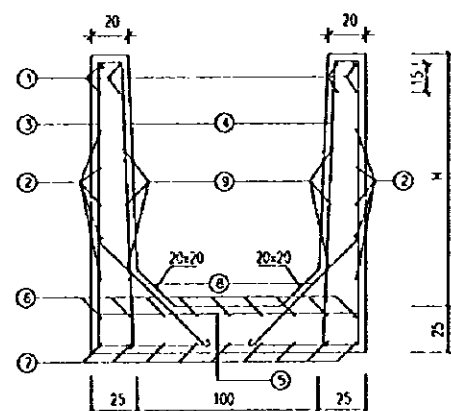
STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	L (cm)	o	n	QUANTITIES OF REINFORCEMENT (kg)			C25 CONCRETE (m <sup>3</sup> )	
						φ8	φ10	φ12		
P236+30 H208+25	P235+30 H208+25	2	121~129	1938	14	101	661.8	417.0	1397.6	39.061
P235+30 H208+25	P235+209 H208+25	1	129~131	908	19	46	152.2	95.0	321.5	9.080
TOTAL							814.0	512.0	1719.1	48.141

NOTE:

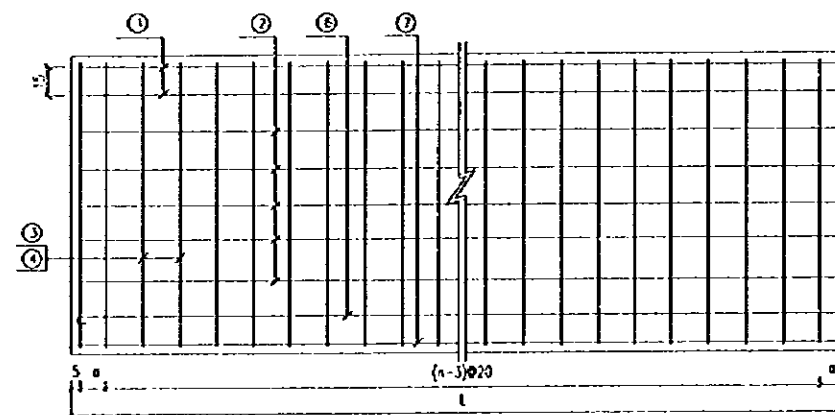
1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A1-3)	
SCALE	DWG1-D8(22/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	





REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	ø12	8	—	L-7
②	L-7	ø8	m1	—	L-7
③	$\left[ \frac{20}{20} \right]_{20}^{20}$	ø12	n	20	211+194
④	$\left[ \frac{20}{20} \right]_{20}^{20}$	ø8	2n	20	11+41
⑤	$\left[ \frac{100}{100} \right]_{100}^{100}$	ø10	n	20	156
⑥	L-7	ø10	9	—	L+6
⑦	L-7	ø12	9	—	L-7
⑧	$\left[ \frac{20}{20} \right]_{20}^{20}$	ø8	2n	20	91
⑨	L-7	ø8	6	—	L-7

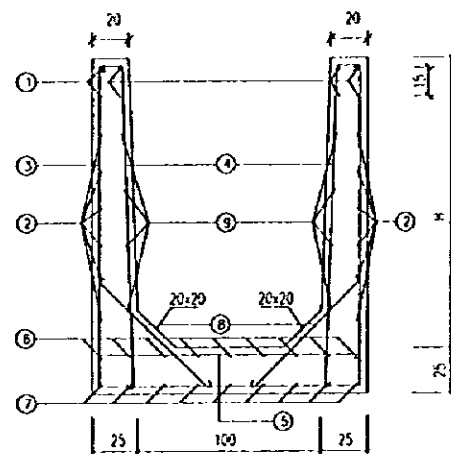
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	L (cm)	a (cm)	m1	n	QUANTITIES OF REINFORCEMENT (kg)			C25 CONCRETE (m <sup>3</sup> )
							ø8	ø10	ø12	
P232+00 ~ P235+00 H208+25 ~ H208+25	6	117~129	1998	14	8	101	1881.4	1251.0	4171.1	116.104
P235+00 ~ P235+19.1 H208+25 ~ H208+25	1	129~131	1908	19	10	96	318.8	198.7	674.0	19.080
TOTAL							2200.2	1449.7	4845.1	135.184

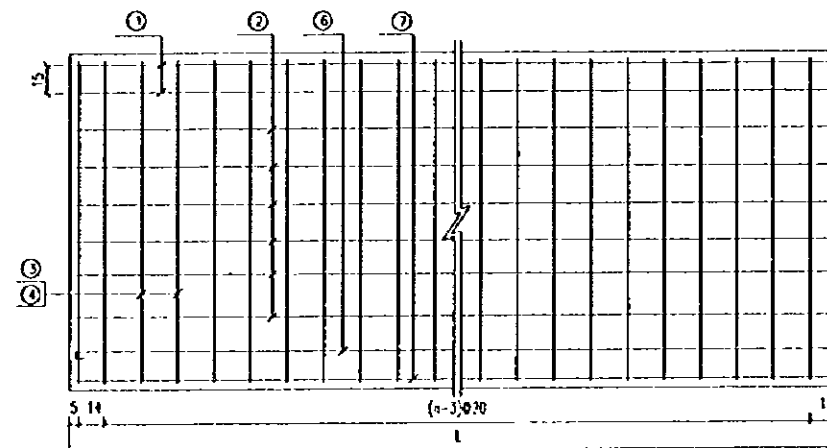
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A4-4)	
SCALE	DWG1-D8(23/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	---	L-7
②	L-7	φ8	m1	---	L-7
③	$\left[ \frac{155}{2} \right] \frac{20}{2}$	φ12	n	20	2H+194
④	$\left[ \frac{155}{2} \right] \frac{20}{2}$	φ8	2n	20	H+41
⑤	L-7	φ10	n	20	156
⑥	L-7	φ10	9	---	L+6
⑦	L-7	φ12	9	---	L-7
⑧	L-7	φ8	2n	20	91
⑨	L-7	φ8	8	---	L-7

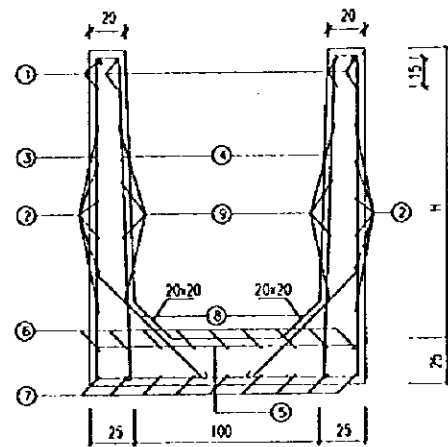
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	SEGMENTS (cm)				QUANTITIES OF REINFORCEMENT (kg)			C25 CONCRETE (m <sup>3</sup> )
		H	L	m1	n	φ8	φ10	φ12	
P226+15 ~ P224+15 H208+25 ~ H208+25	4	156~172	1998	12	10	1573.9	834.0	3074.9	92.148
P224+15 ~ P224+100 H208+25 ~ H208+25	1	172~175	1498	14	76	313.0	156.7	590.2	17.912
TOTAL						1886.9	990.7	3665.1	110.060

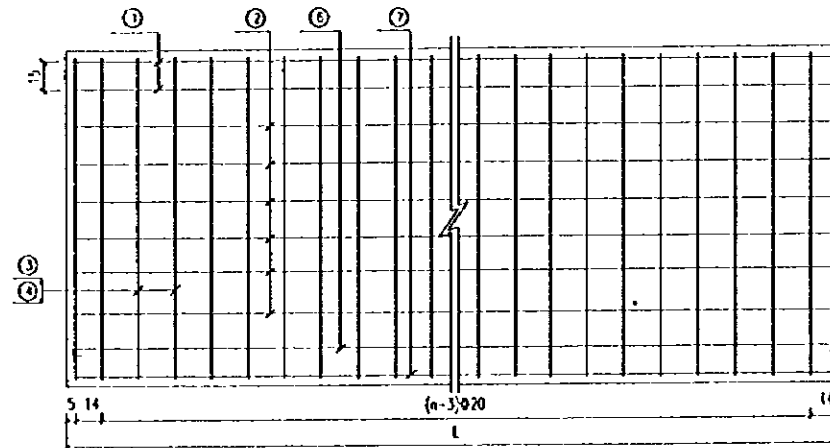
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT   SEPTEMBER 1997	
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A4-S)	
SCALE: 1:100	DWG1-08(24/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ12	8	---	L-7
②	L-7	φ8	m1	---	L-7
③	$\left[ \frac{L+1}{2} \right] \frac{20}{2}$	φ12	n	20	2L+194
④	$\left[ \frac{L+1}{2} \right] \frac{20}{2}$	φ8	2n	20	L+41
⑤	$\frac{115}{2}$	φ10	n	20	156
⑥	L-7	φ10	9	---	L+6
⑦	L-7	φ12	9	---	L-7
⑧	$\frac{81}{2}$	φ8	2n	20	91
⑨	L-7	φ8	8	---	L-7

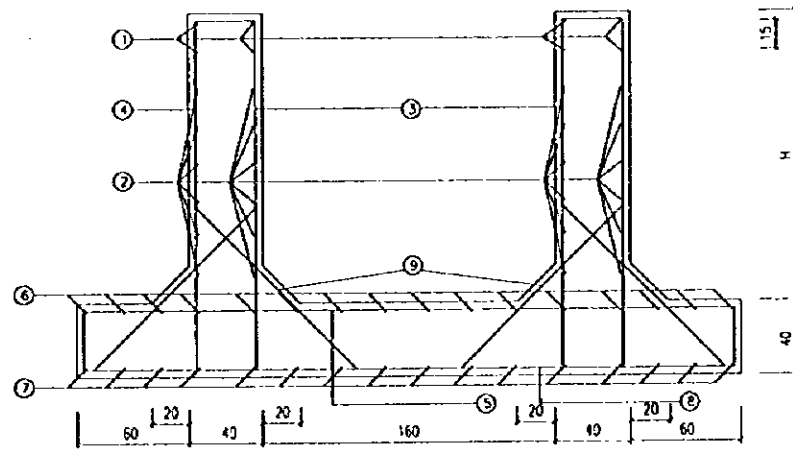
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)		m1	n	QUANTITIES OF REINFORCEMENT (kg)			C25 CONCRETE (m <sup>3</sup> )
		φ8	φ10			φ12			
P221+25 ~ P223+25 H208+25 ~ H208+25	4	156~172	1938	12	10	1573.9	834.0	3074.9	92.148
P223+25 ~ P224+00 H208+25 ~ H208+25	1	172~175	1498	14	76	313.0	156.7	590.2	17.912
TOTAL						1886.9	990.7	3665.1	110.060

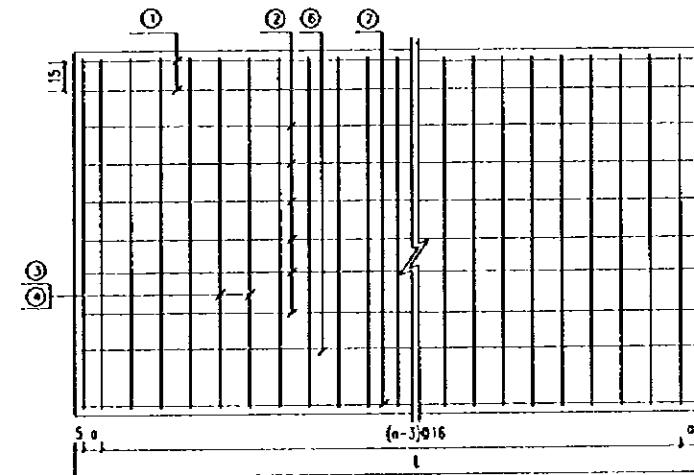
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A1-6)	
SCALE $\frac{1}{20}$	DWG1-DB(25/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ25	8	—	L-7
②	L-7	φ10	m	—	L-7
③		φ16	2n	16	11+E6
④		φ20	2n	16	11+E6
⑤	353	φ16	n	16	353
⑥	L-7	φ20	16	—	L-7
⑦	L-7	φ20	16	—	L-7
⑧		φ20	n	16	419
⑨	124	φ12	4n	16	124

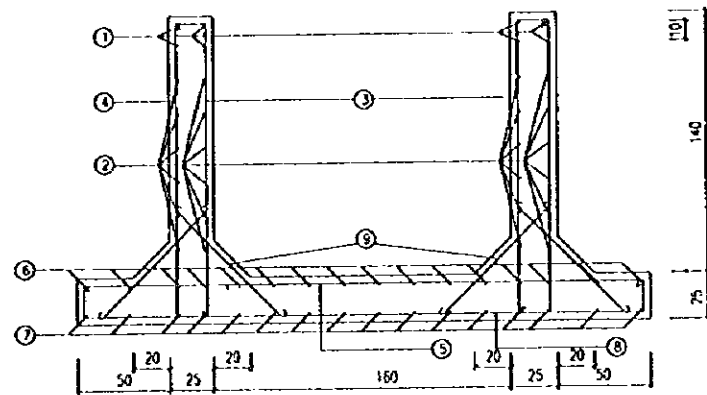
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H L o m n					QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )	
		(cm)					φ10	φ12	φ16	φ20	φ25		
P252+0.5 H214+00	P245+20.5 H214+00	13	152~175	1998	10	28	126	4471.5	7214.5	21014.9	55957.9	7986.5	734.545
P245+20.5 H214+00	P245+12 H214+00	1	175~176	848	11	32	54	166.0	237.8	713.3	1867.1	259.5	24.796
P245+10 H213+38	P245+10 H213+19	1	176~188	1898	8	32	120	373.4	528.5	1609.7	4205.0	583.5	56.485
TOTAL								5010.9	7980.8	23337.9	62030.0	8829.5	815.826

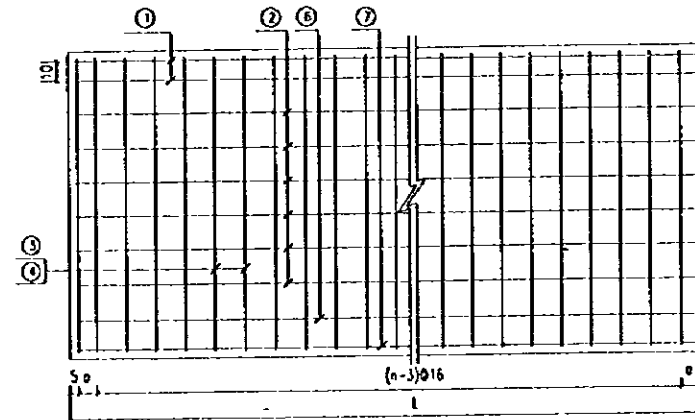
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC DITCH(AS-1)	
SCALE	DWG1-D8(26/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	---	L-7
②	L-7	φ10	24	---	L-7
③		φ12	2n	16	191
④		φ14	2n	16	194
⑤		φ14	n	16	321
⑥	L-7	φ18	16	---	L-7
⑦	L-7	φ18	16	---	L-7
⑧		φ12	n	16	354
⑨		φ10	4n	16	95

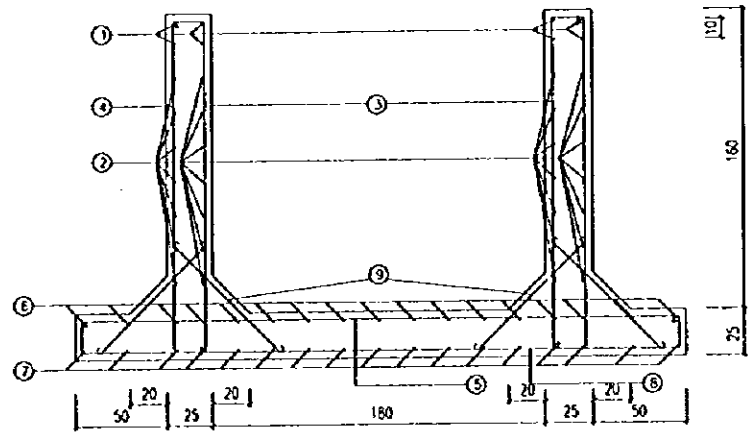
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	a (cm)	n	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )	
					φ10	φ12	φ14	φ16	φ18		
P245+10 H213+19	P245+10 H208+39	9	1998	10	126	5312.2	3846.7	14627.0	2265.0	11468.2	279.620
P245+10 H208+39	P245+10 H208+25.75	1	1323	8.5	84	391.8	284.9	1083.5	166.3	842.2	20.573
TOTAL						5704.0	4131.6	15710.5	2431.3	12310.4	300.193

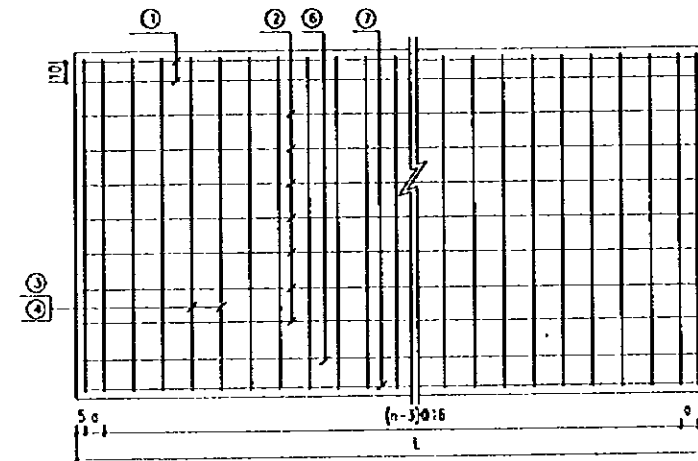
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT(A5-1)	
SCALE	DWG1-D8(27/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	—	L-7
②	L-7	φ10	28	—	L-7
③		φ12	2n	16	211
④		φ14	2n	16	214
⑤		φ16	n	16	343
⑥	L-7	φ18	17	—	L-7
⑦	L-7	φ18	17	—	L-7
⑧		φ14	n	16	377
⑨		φ10	4n	16	95

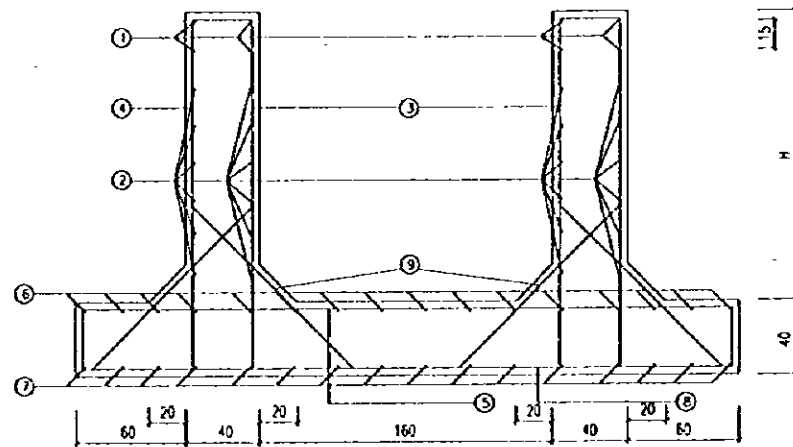
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	o	n	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
					φ10	φ12	φ14	φ16	φ18	
P245+10 P245+10 H208+24 25 H206+24 25	4	1998	10	126	2557.5	1888.7	4909.2	3738.0	5415.5	136.264
P245+10 P245+10 H206+24 25 H206+10 75	1	1348	13	85	431.0	318.5	827.9	630.2	911.9	22.983
TOTAL					2988.5	2207.2	5737.1	4368.2	6327.4	159.247

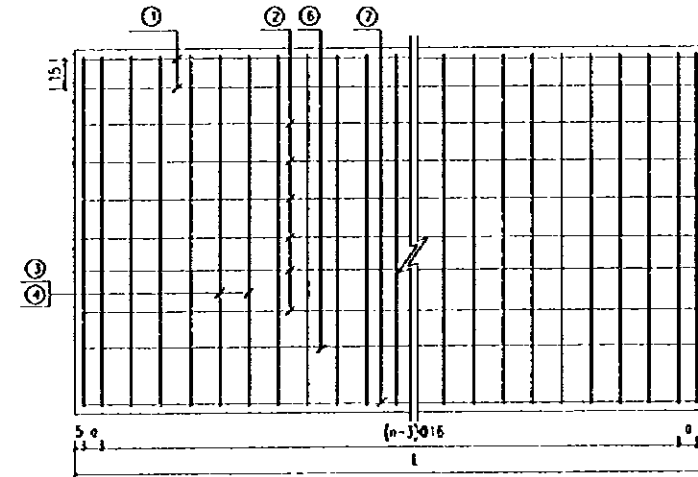
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT (AS-1)	
SCALE	DWG1-08(28/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ25	8	---	L-7
②	L-7	φ10	m	---	L-7
③		φ16	2n	16	H+66
④		φ20	2n	16	H+66
⑤	JSS	φ16	n	16	353
⑥	L-7	φ20	16	---	L-7
⑦	L-7	φ20	16	---	L-7
⑧		φ20	n	16	419
⑨	124	φ12	4n	16	124

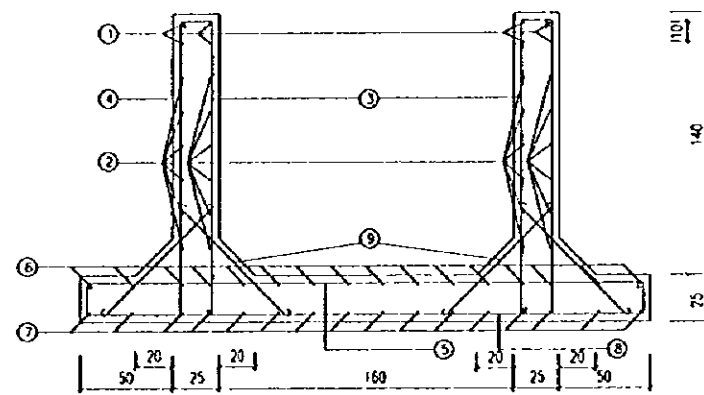
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	L (cm)	a (cm)	m	n	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
							φ10	φ12	φ16	φ20	φ25	
P245+08 ~ P235+28 H214+00 ~ H214+00	19	137~171	1998	10	28	126	6535.3	10544.3	29995.4	80661.6	11672.5	1044.710
P235+28 ~ P235+22 H214+00 ~ H214+00	1	171~172	598	14	32	38	116.7	167.4	497.1	1305.7	182.4	17.294
P235+20 ~ P235+20 H213+38 ~ H213+19	1	172~184	1898	8	32	120	373.4	528.5	1594.5	4181.3	583.5	55.877
TOTAL							7025.4	11240.2	32087.0	86148.6	12438.4	1117.881

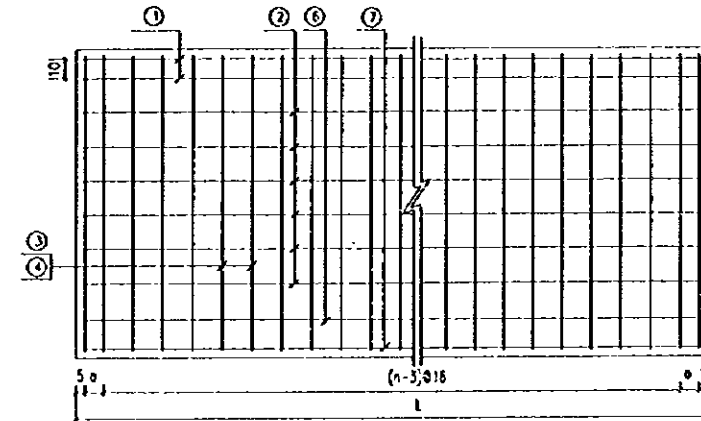
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC DITCH(A5-2)	
SCALE	DWG1-08(29/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	—	L-7
②	L-7	φ10	24	—	L-7
③		φ12	2n	16	191
④		φ14	2n	16	194
⑤		φ14	n	16	321
⑥	L-7	φ18	16	—	L-7
⑦	L-7	φ18	16	—	L-7
⑧		φ12	n	16	354
⑨		φ10	4n	16	95

SEGMENTS AND QUANTITIES OF MATERIALS

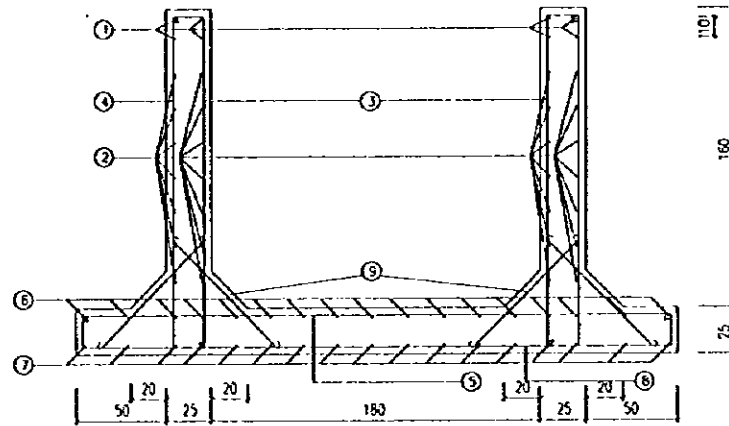
STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	o	n	QUANTITIES OF REINFORCEMENT (t)					C25 CONCRETE (m <sup>3</sup> )	
					φ10	φ12	φ14	φ16	φ18		
P235+20 H213+19	P235+20 H208+39	9	1998	10	126	5312.2	3846.7	14627.0	2265.0	11468.2	279.620
P235+20 H208+39	P235+20 H208+25.75	1	1323	8.5	84	391.8	284.9	1083.5	166.3	842.2	20.573
TOTAL						5704.0	4131.6	15710.5	2431.3	12310.4	300.193

NOTE:

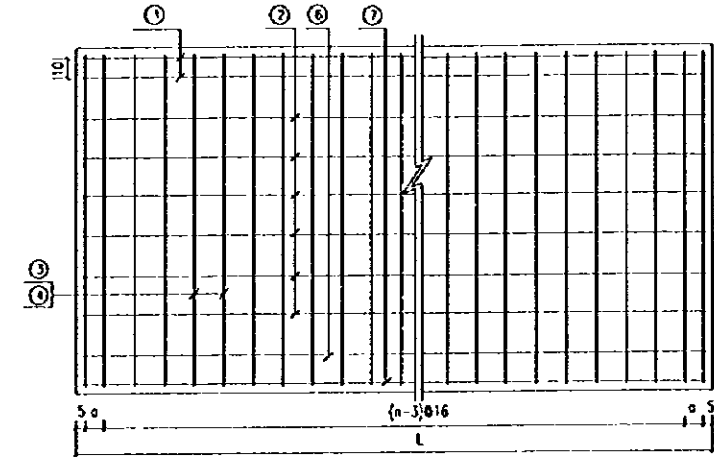
1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT (AS-2)	
SCALE	DWG1-D8(30)/85
JAPAN INTERNATIONAL COOPERATION AGENCY	





REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

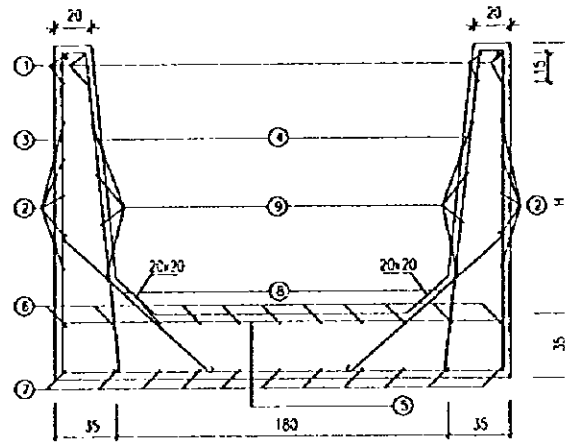
No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	---	L-7
②	L-7	φ10	28	---	L-7
③		φ12	2n	16	211
④		φ14	2n	16	214
⑤		φ16	n	16	343
⑥	L-7	φ18	17	---	L-7
⑦	L-7	φ18	17	---	L-7
⑧		φ14	n	16	377
⑨		φ10	4n	16	95

SEGMENTS AND QUANTITIES OF MATERIALS

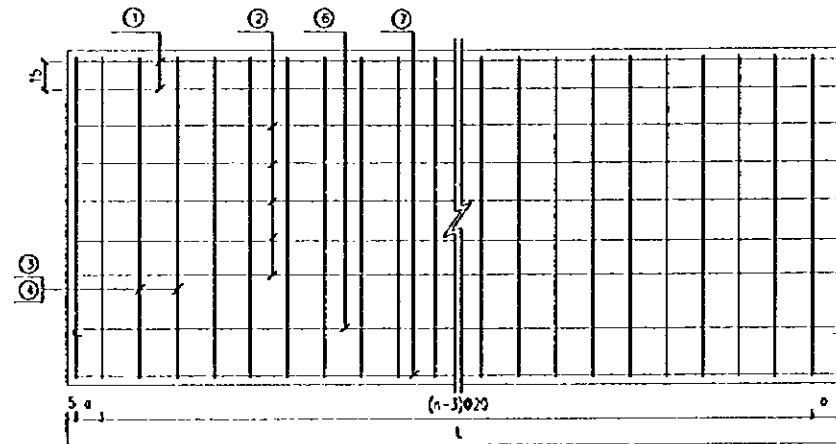
STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	a (cm)	n	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m³)
					φ10	φ12	φ14	φ16	φ18	
P235+20 P235+20 H206+24.25 H206+24.25	4	1998	10	126	2557.5	1838.7	4909.2	3738.0	5415.5	136.264
P235+20 P235+20 H206+24.25 H206+11.75	1	1248	11	79	399.6	296.0	769.5	585.0	843.9	21.278
TOTAL					2957.1	2184.7	5678.7	4323.0	6259.4	157.542

NOTE:  
1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT(A5-2)	
SCALE	DWG1-D8(31/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	Ø12	8	—	L-7
②	L-7	Ø8	18	—	L-7
③	$\left[ \frac{2H+20}{2} \right]$	Ø14	n	20	2H+317
④	$\left[ \frac{H}{2} \right]$	Ø8	2n	20	H+52
⑤	$\left[ \frac{2L}{2} \right]$	Ø10	n	20	256
⑥	L-7	Ø10	11	—	L+6
⑦	L-7	Ø12	11	—	L-7
⑧	$\left[ \frac{109}{2} \right]$	Ø8	2n	20	119
⑨	L-7	Ø8	m2	—	L-7

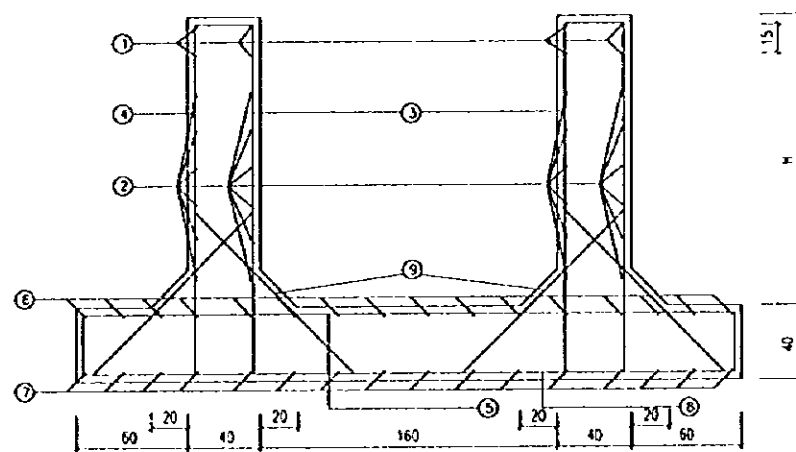
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H L a m2 n				QUANTITIES OF REINFORCEMENT (m)				C25 CONCRETE (m <sup>3</sup> )	
		H	L	a	m2	n	Ø8	Ø10	Ø12		Ø14
P229+05 ~ P229+05 H211+20 ~ H211+00	1	218~203	1998	14	12	101	540.3	295.5	335.9	901.9	41.414
P229+05 ~ P229+05 H211+00 ~ H209+00	4	203~203	1998	14	10	101	2084.1	1182.2	1343.7	3553.6	163.676
P229+05 ~ P229+05 H209+00 ~ H208+19.75	1	209~23.5	2023	16.5	12	102	554.8	298.8	340.1	936.8	43.100
TOTAL							3179.2	1776.5	2019.7	5402.3	248.190

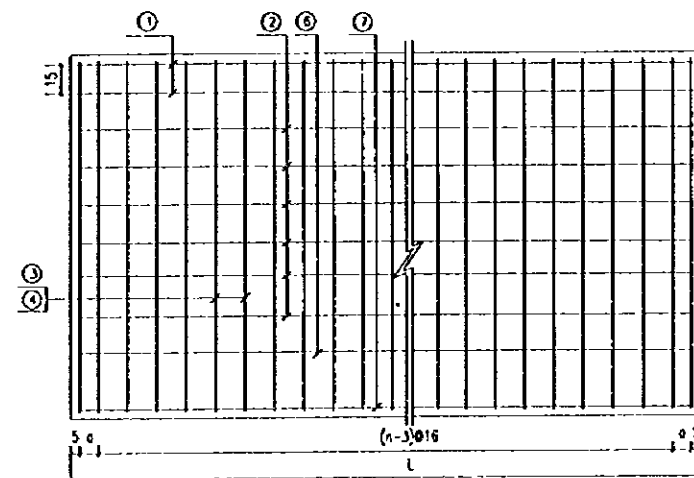
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 U-SHAPE RC DITCH(A5-3)	
SCALE	DWG1-DB(32/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	∅25	8	---	L-7
②	L-7	∅10	m	---	L-7
③		∅16	2n	16	H+66
④		∅20	2n	16	H+66
⑤	353	∅16	n	16	353
⑥	L-7	∅20	16	---	L-7
⑦	L-7	∅20	16	---	L-7
⑧		∅20	n	16	419
⑨	124	∅12	4n	16	124

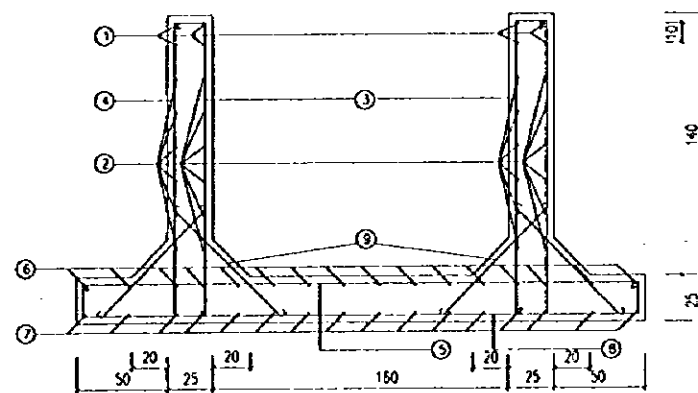
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H L a m n					QUANTITIES OF REINFORCEMENT (m)					C25 CONCRETE (m <sup>3</sup> )
		H (cm)	L (cm)	a (cm)	m (cm)	n (cm)	∅10	∅12	∅16	∅20	∅25	
P235+18 ~ P229+18 H214+00 ~ H214+00	12	148~171	1998	10	28	126	4127.6	6659.6	19207.2	51354.8	7372.1	670.369
P229+13 ~ P229+07 H214+00 ~ H214+00	1	171~172	1098	8	32	70	215.4	308.3	915.8	2407.1	336.6	31.754
P229+05 ~ P229+05 H213+38 ~ H213+19	1	172~181	1898	8	32	120	373.4	528.5	1594.5	4181.3	583.5	55.877
TOTAL							4716.4	7496.4	21717.5	57943.2	8292.2	758.000

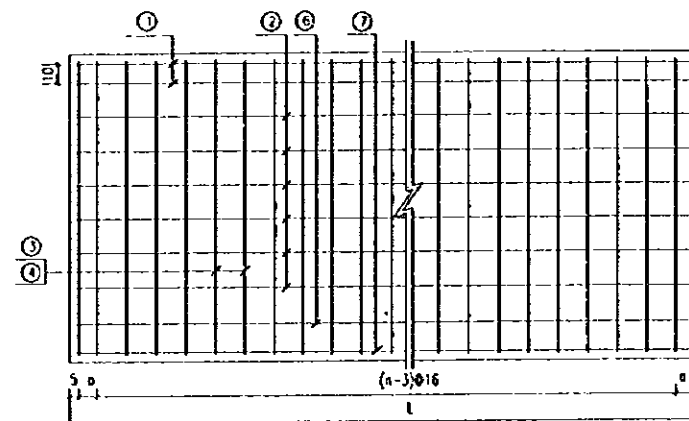
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC DITCH(AS-3)	
SCALE	DWG1-08(33/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	---	L-7
②	L-7	φ10	24	---	L-7
③		φ12	2n	16	191
④		φ14	2n	16	194
⑤		φ14	n	16	321
⑥	L-7	φ18	16	---	L-7
⑦	L-7	φ18	16	---	L-7
⑧		φ14	n	16	357
⑨		φ10	4n	16	95

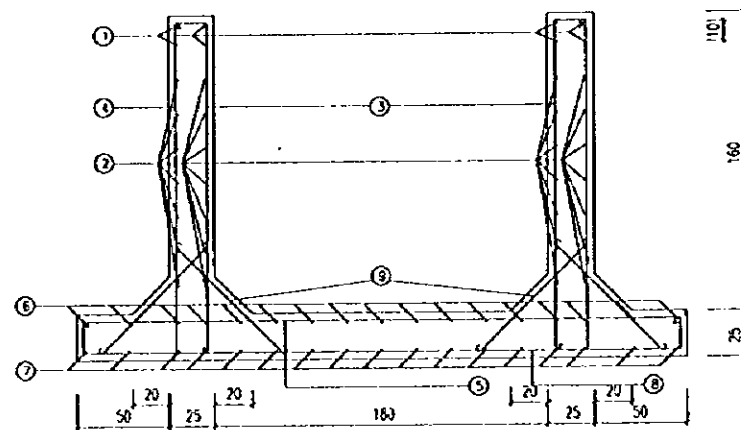
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	a	n	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
					φ10	φ12	φ14	φ16	φ18	
P229+05 ~ P229+05 H213+19 ~ H211+39	3	1998	10	126	1770.7	1282.2	4875.7	755.0	3822.7	93.207
P229+05 ~ P229+05 H211+39 ~ H211+20	1	1898	8	120	561.4	407.1	1547.8	239.0	1210.2	29.514
TOTAL					2332.1	1689.3	6423.5	994.0	5032.9	122.721

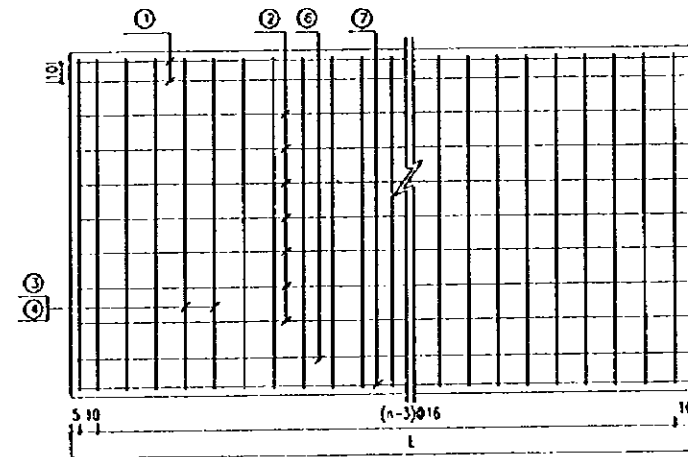
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT(AS-3)	
SCALE	DWG1-08(34/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC CULVERT  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ16	8	---	L-7
②	L-7	φ10	28	---	L-7
③		φ12	2n	16	211
④		φ14	2n	16	214
⑤		φ16	n	16	343
⑥	L-7	φ18	17	---	L-7
⑦	L-7	φ18	17	---	L-7
⑧		φ14	n	16	377
⑨		φ10	4n	16	95

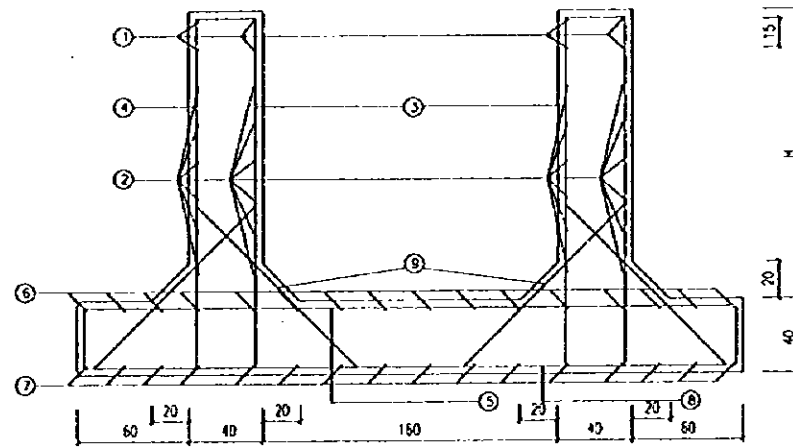
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	L (cm)	n	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
				φ10	φ12	φ14	φ16	φ18	
P229+05 P229+05 H208+19.75 H206+19.75	4	1998	126	2557.5	1888.7	4909.2	3738.0	5415.5	136.264
P229+05 P229+05 H206+19.75 H206+11.75	1	798	51	256.2	191.1	496.8	376.4	537.9	13.606
TOTAL				2813.7	2079.8	5406.0	4114.4	5953.4	149.870

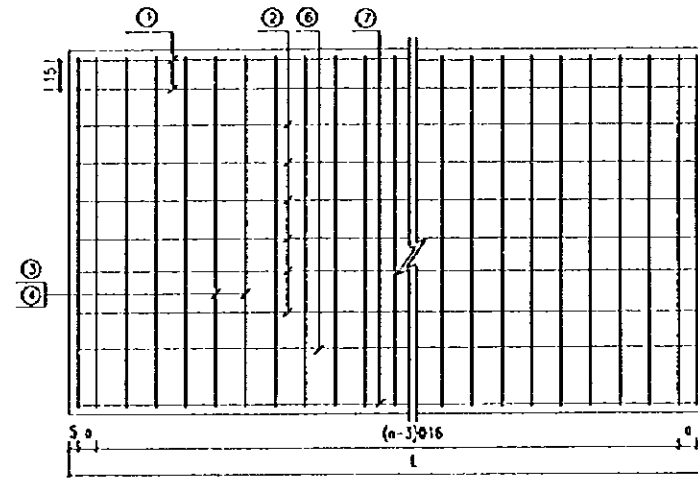
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC CULVERT(A5-3)	
SCALE	1:100
DWG-08(35/85)	
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 2 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	L-7	φ25	8	---	L-7
②	L-7	φ10	m	---	L-7
③		φ16	2n	16	H+66
④		φ20	2n	16	H+66
⑤		φ16	n	16	353
⑥	L-7	φ20	16	---	L-7
⑦	L-7	φ20	16	---	L-7
⑧		φ20	n	16	419
⑨		φ12	4n	16	124

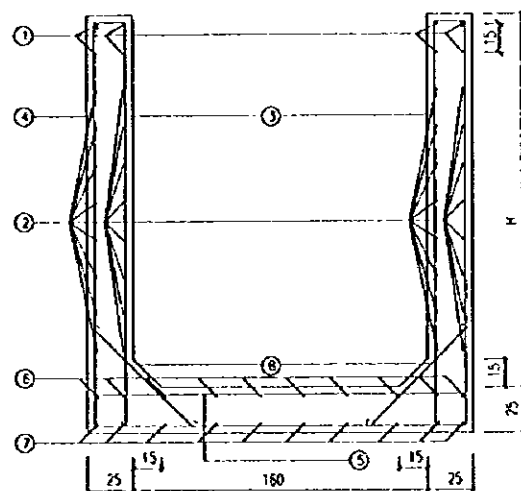
SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	L (cm)	o	rn	n	QUANTITIES OF REINFORCEMENT (kg)					C25 CONCRETE (m <sup>3</sup> )
							φ10	φ12	φ16	φ20	φ25	
P226+00 ~ P228+20 H214+00 ~ H214+00	5	159~170	1998	10	28	126	1719.8	2774.8	8102.6	21553.4	3071.7	283.316
P228+20 ~ P229+03 H214+00 ~ H214+00	1	170~172	2298	8	32	145	452.3	638.6	1894.7	5007.1	706.9	66.366
TOTAL							2172.1	3413.4	9997.3	26560.5	3778.6	349.682

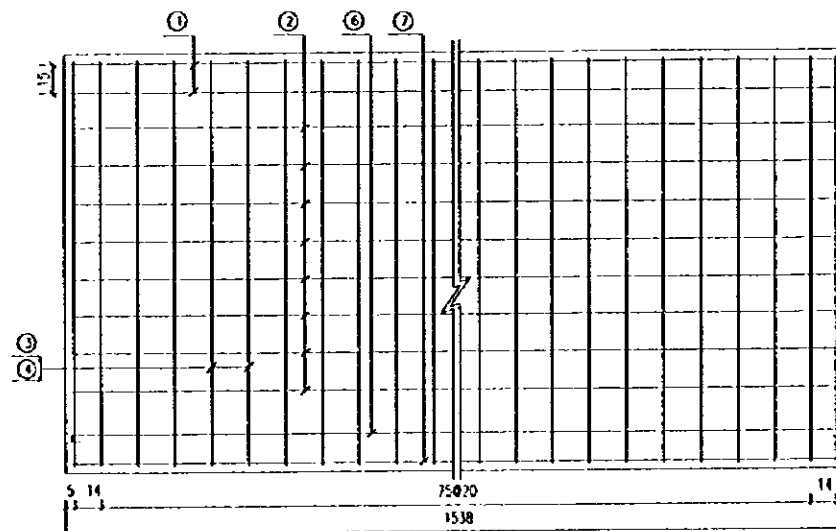
NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 2 RC DITCH(AS-1)	
SCALE	DWG1-08(36/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	



REINFORCEMENT OF TYPE 1 RC DITCH  
(CROSS SECTION)



REINFORCEMENT OF SIDE WALL

BENDING SCHEDULE

No.	SHAPE (cm)	DIAMETER (mm)	No's	PITCH (cm)	LENGTH (cm)
①	1531	φ12	8	—	1531
②	1531	φ8	32	—	1531
③	$\begin{matrix} 18 \\   \\ 203 \\   \\ 18 \end{matrix}$	φ10	156	20	H+49
④	$\begin{matrix} 18 \\   \\ 203 \\   \\ 18 \end{matrix}$	φ14	78	20	2H+257
⑤	203	φ10	78	20	216
⑥	1531	φ10	10	—	1544
⑦	1531	φ12	10	—	1531
⑧	75	φ8	156	20	85

SEGMENTS AND QUANTITIES OF MATERIALS

STARTING/ENDING COORDINATES	NUMBER OF SEGMENTS	H (cm)	QUANTITIES OF REINFORCEMENT (kg)				C25 CONCRETE (m <sup>3</sup> )
			φ8	φ10	φ12	φ14	
P216+55 P215+30 I121+100 I121+100	1	208~183	245.9	434.6	244.7	611.6	23.455
TOTAL			245.9	434.6	244.7	611.6	23.455

NOTE:

1. Unit : cm.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
REINFORCEMENT OF TYPE 1 RC DITCH (AS-5)	
SCALE	DWG1-D8(37/85)
JAPAN INTERNATIONAL COOPERATION AGENCY	