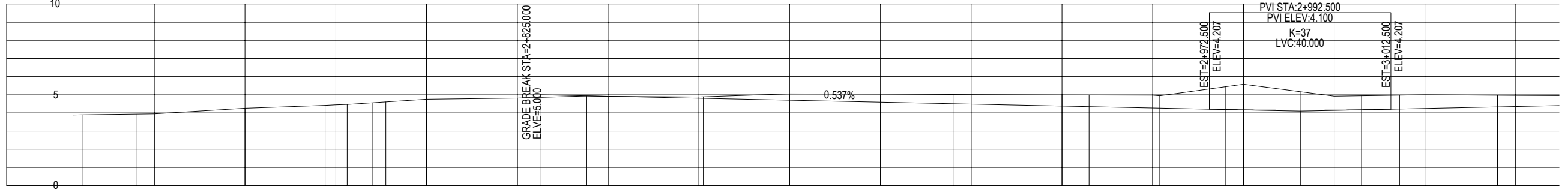
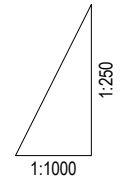
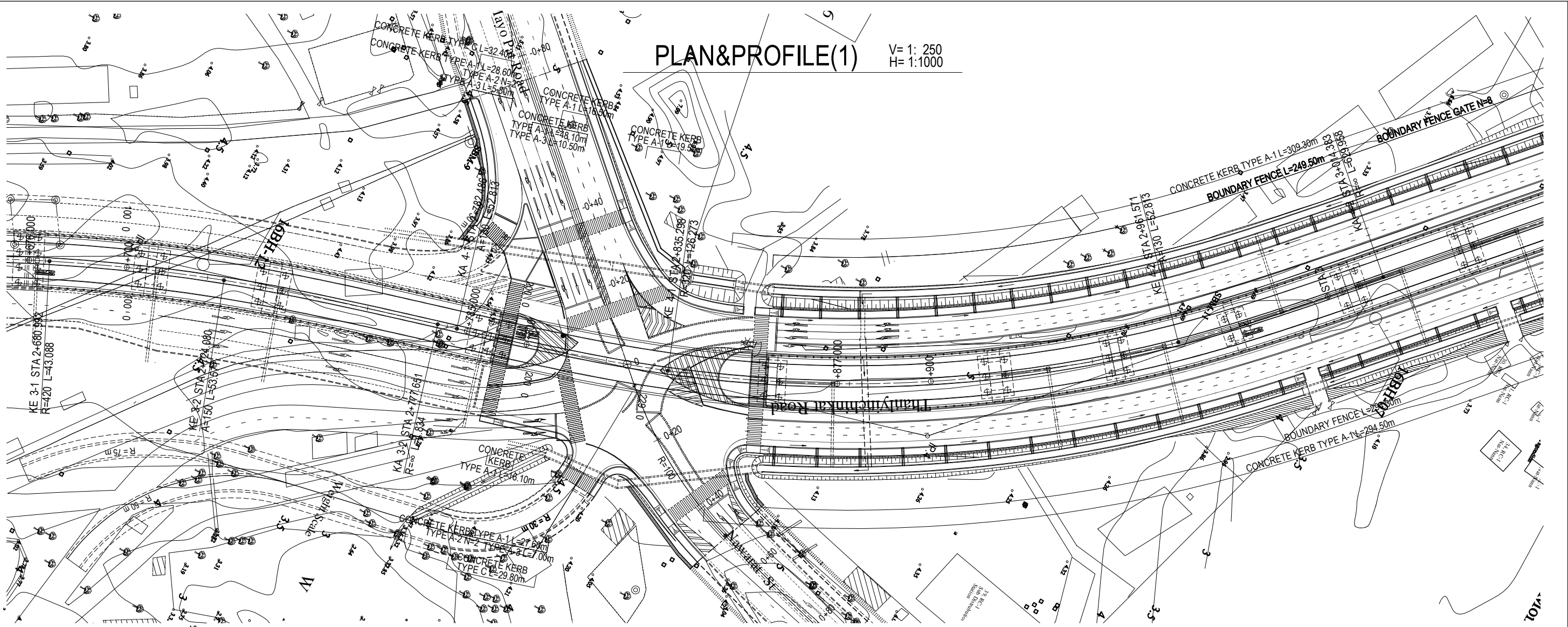


B. ROAD DESIGN

PLAN&PROFILE(1)

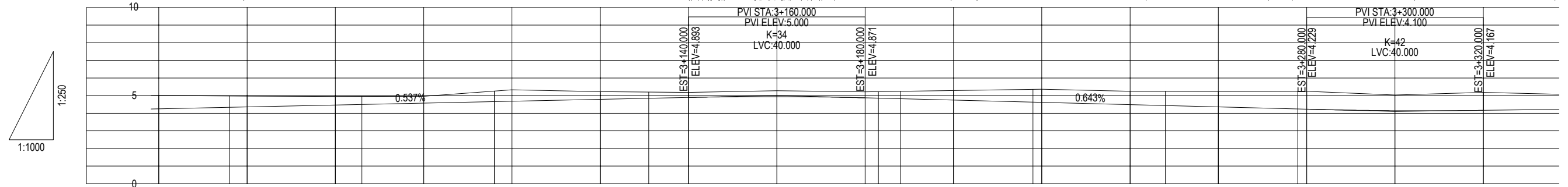
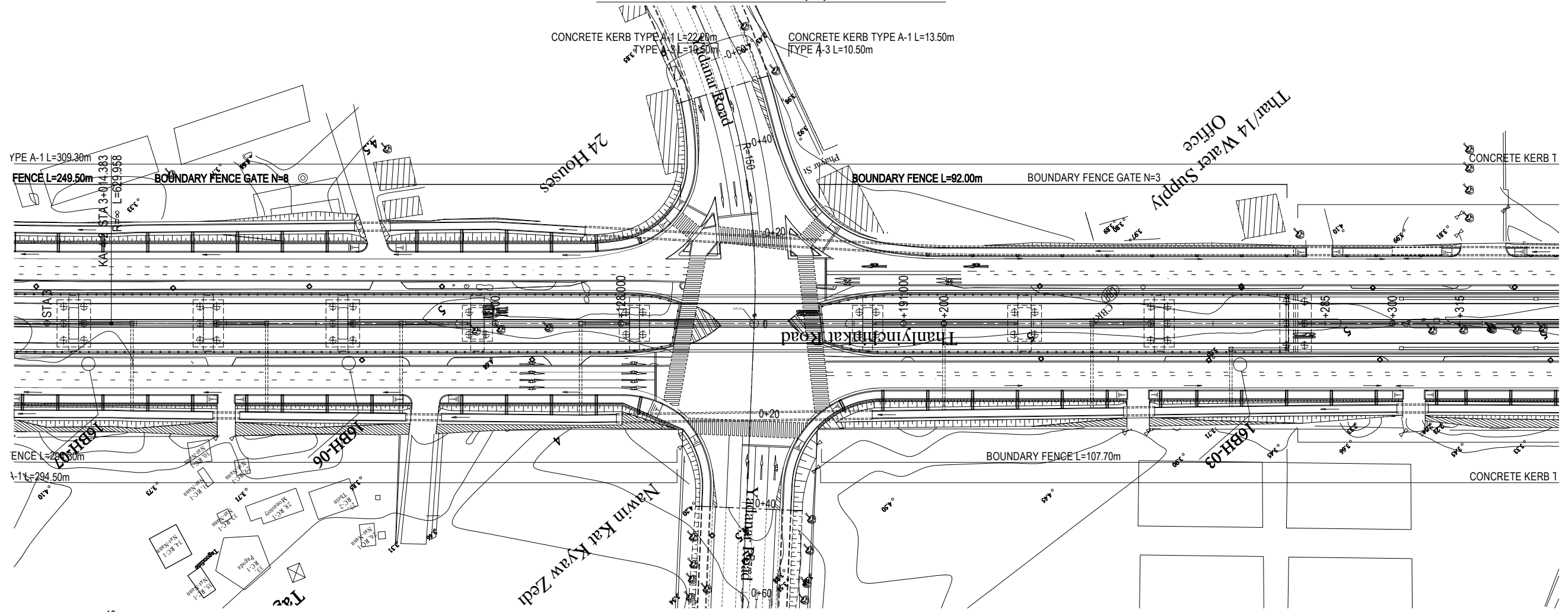
V= 1: 250
H= 1:1000



GRADE	0.537%																																
PROPOSED HEIGHT	5.542	5.478	5.457	5.349	5.254	5.242	5.228	5.199	5.183	5.134	5.027	5.000	4.945	4.919	4.812	4.807	4.704	4.597	4.511	4.490	4.382	4.350	4.275	4.266	4.190	4.175	4.154	4.161	4.178	4.218	4.248	4.334	4.355
EXISTING HEIGHT	3.90	3.94	3.95	4.26	4.42	4.45	4.47	4.56	4.61	4.75	4.82	4.86	4.93	4.91	4.88	4.89	5.05	5.04	5.02	5.01	4.99	4.99	4.98	4.95	5.44	5.58	5.17	4.92	4.95	4.98	5.00	4.98	4.97
STATION	KE 3-2	+736.000	+740.000	+760.000	KA 3-2	+780.000	KA 4-1	+788.000	+791.000	+800.000	+820.000	+825.000	KE 4-1	+840.000	+860.000	+861.000	+880.000	+900.000	+916.000	+920.000	+940.000	+946.000	+960.000	KE 4-2	+976.000	+980.000	+992.500	STA3	+6.000	KA 4-2	+20.000	+36.000	+40.000
SUPER ELEVATION	2.0%																																
CURVE ELEMENTS	L=53.571 A=150.000										R=∞ L=4.834										A=130.000 L=52.813												

PLAN&PROFILE(2)

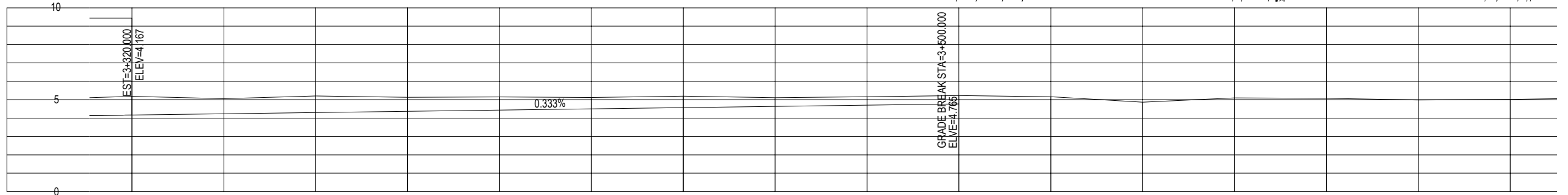
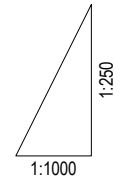
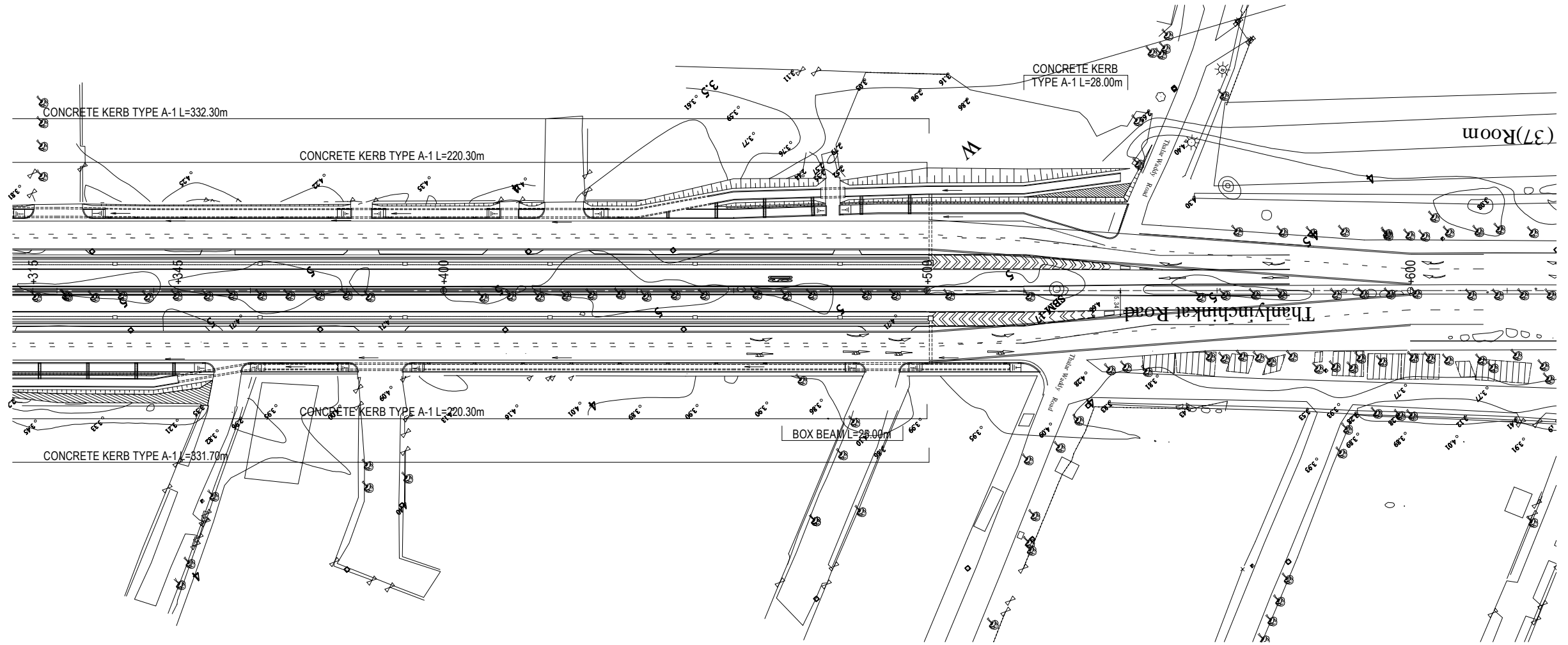
V= 1: 250
H= 1:1000



GRADE	i=0.537% L=167.500																		i=0.643% L=140.000																	
PROPOSED HEIGHT	4.248	4.334	4.355	4.463	4.495	4.570	4.656	4.678	4.785	4.844	4.893	4.941	4.871	4.852	4.820	4.743	4.627	4.614	4.486	4.434	4.357	4.241	4.229	4.149	4.167											
EXISTING HEIGHT	5.00	4.98	4.97	4.95	4.95	4.96	5.26	5.33	5.22	5.20	5.18	5.28	5.21	5.22	5.24	5.29	5.35	5.36	5.25	5.25	5.24	5.25	5.25	5.03	5.18											
STATION	+20.000	+36.000	+40.000	+60.000	+66.000	+80.000	+96.000	+100.000	+120.000	+131.000	+140.000	+160.000	+180.000	+183.000	+188.000	+200.000	+218.000	+220.000	+240.000	+248.000	+260.000	+278.000	+280.000	+300.000	+320.000											
SUPER ELEVATION	-----																																			
CURVE ELEMENTS	-----																																			

PLAN&PROFILE(3)

V= 1: 250
H= 1:1000



GRADE																
PROPOSED HEIGHT	4.167	4.233	4.300	4.366	4.433	4.499	4.566	4.632	4.699	4.765	4.832	4.898	4.965	5.031	5.098	5.164
EXISTING HEIGHT	5.18	5.06	5.20	5.13	5.15	5.12	5.19	5.11	5.16	5.23	5.16	4.87	5.10	5.08	4.98	5.01
STATION	+320.000	+340.000	+360.000	+380.000	+400.000	+420.000	+440.000	+460.000	+480.000	+500.000	+520.000	+540.000	+560.000	+580.000	+600.000	+620.000
SUPER ELEVATION	-----															
CURVE ELEMENTS	R=∞ L=629.958															

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

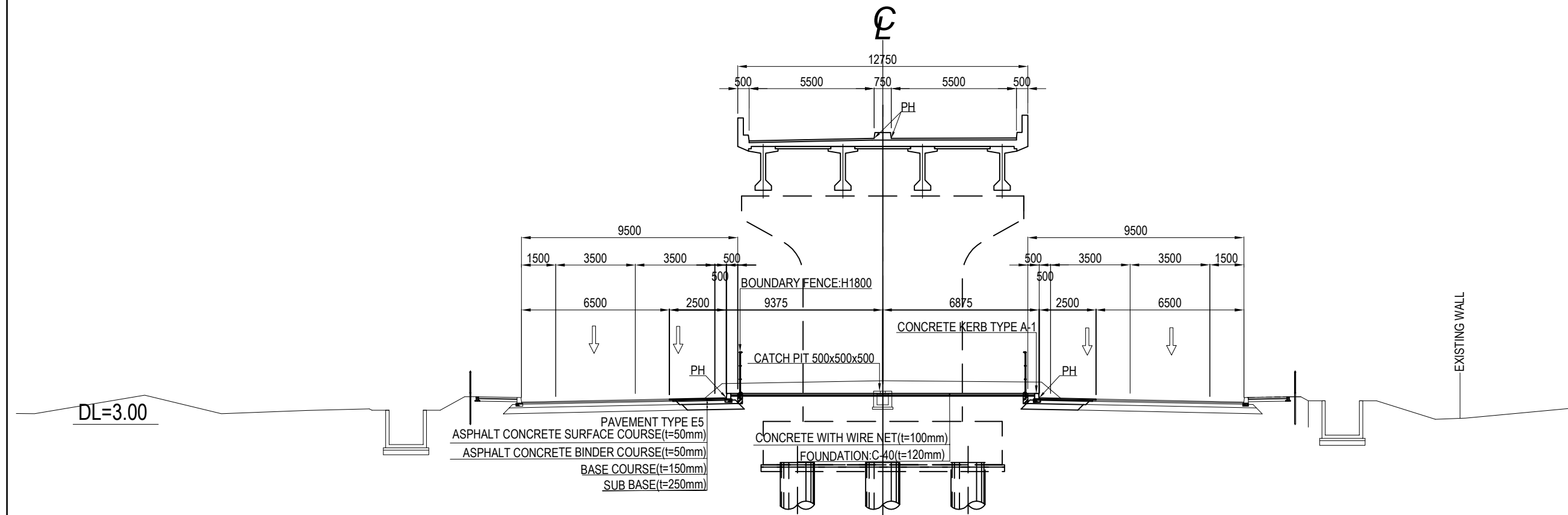
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep 2017
CHECKED BY	T. HAYAKAWA		3 Oct 2017
APPROVED BY	Y. SANO		6 Oct 2017

DRAWING TITLE
PLAN&PROFILE(3)
V= 1: 250,H= 1:1000

PACKAGE
3
DWG No.
P3-RD-0120

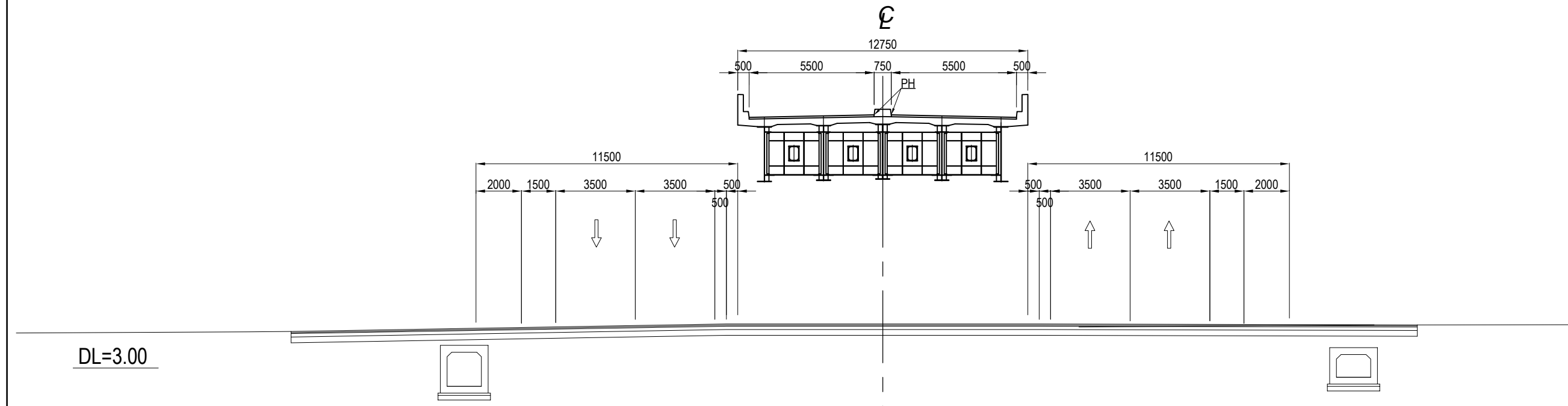
TYPICAL CROSS SECTION (1) S=1:200

℄



"SHUKHINTHAR INTERSECTION - YADANAR INTERSECTION" SECTION

℄

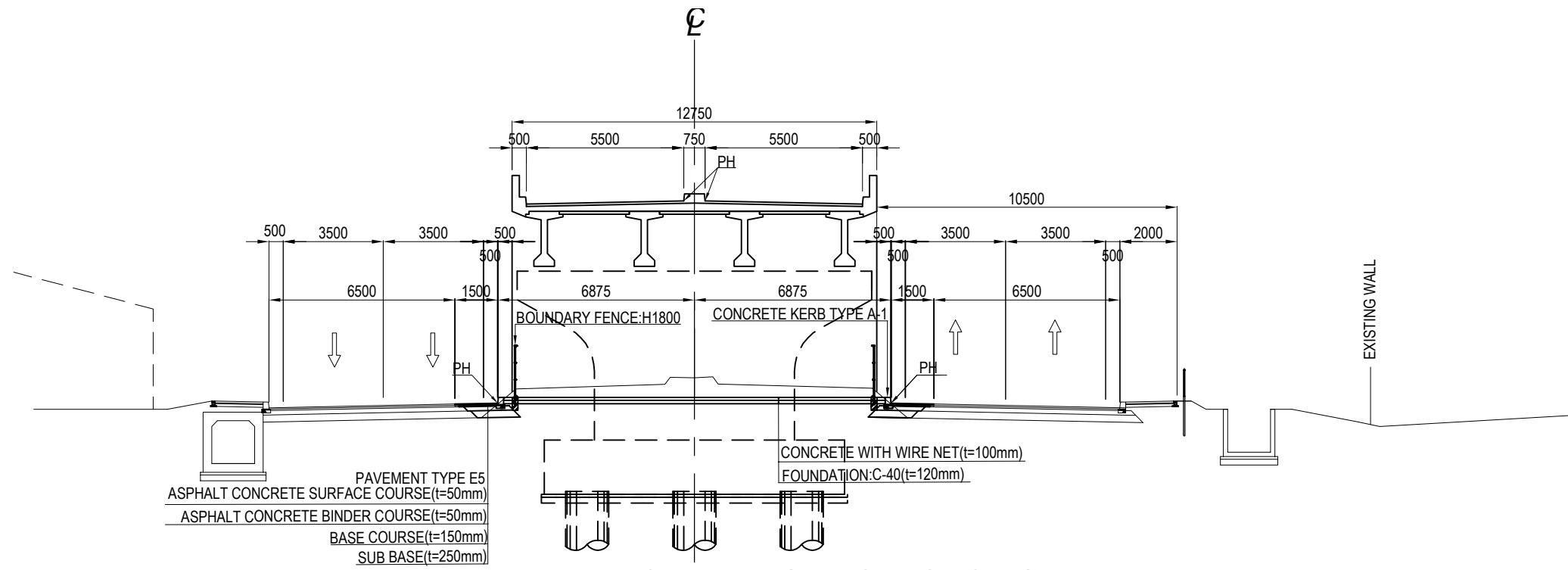


INTERSECTION

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE TYPICAL CROSS SECTION (1) S=1:200	PACKAGE 3 DWG No. P3-RD-0200	
				PREPARED BY	K. TACHIBANA				29 Sep. 2017
				CHECKED BY	T. HAYAKAWA				3 Oct. 2017
				APPROVED BY	Y. SANO				6 Oct. 2017

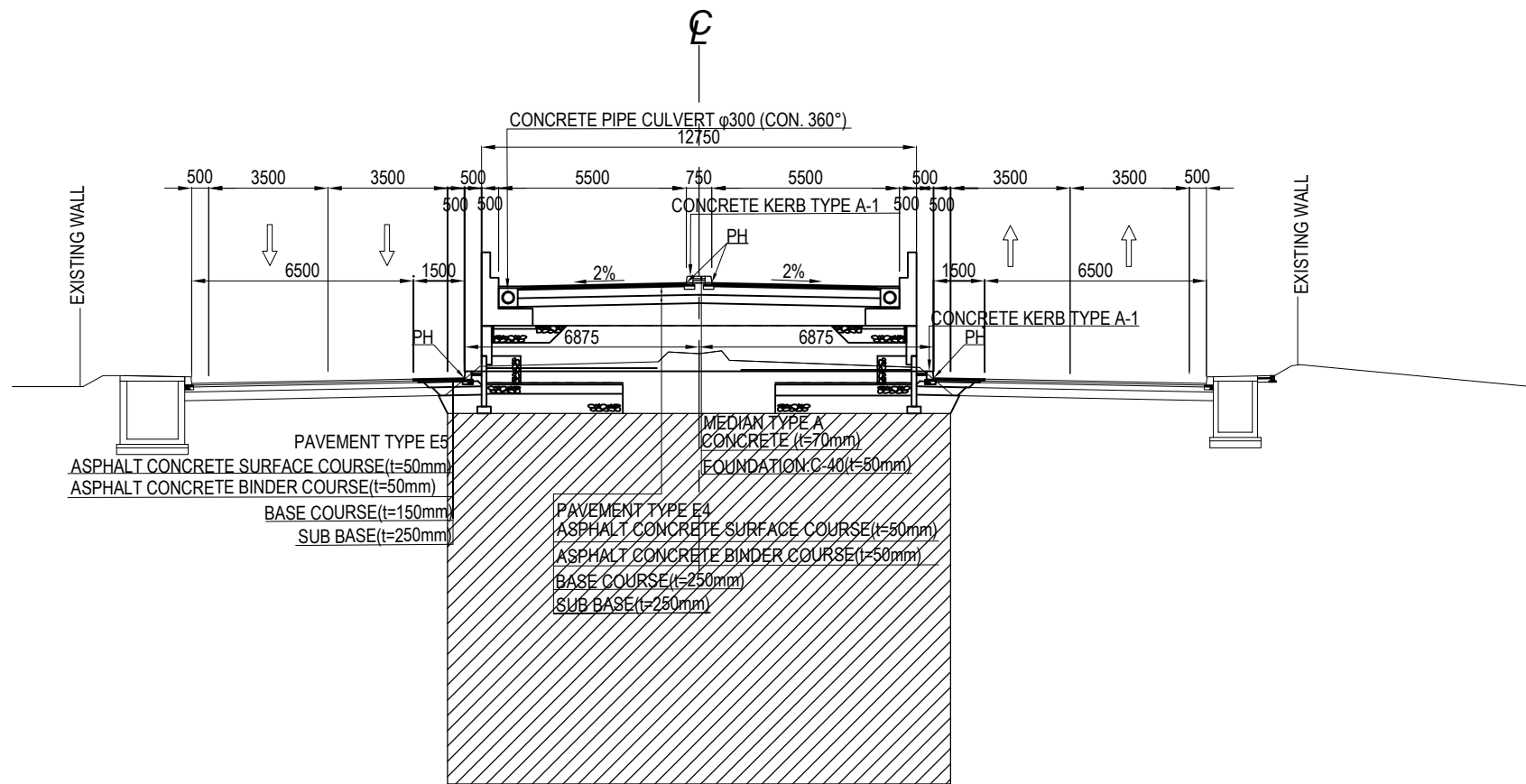
TYPICAL CROSS SECTION (2) S=1:200

DL=3.00



"NEAR THE WATER SUPPLY OFFICE" SECTION

DL=3.00

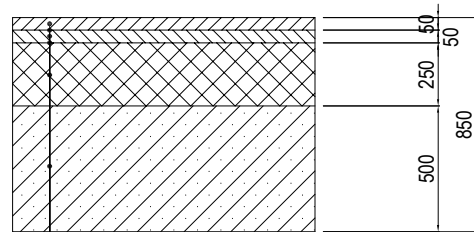


"MECHANICALLY-STABILISED EARTH WALL" SECTION

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE TYPICAL CROSS SECTION (2) S=1:200	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-0210

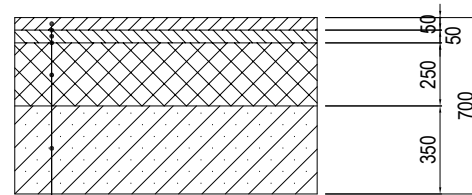
DETAIL OF ASPHALT CONCRETE PAVEMENT S=1:30

Type E1



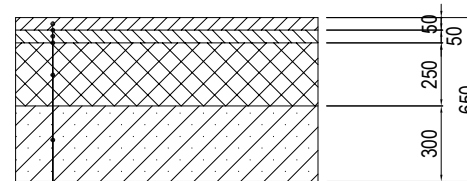
AC SURFACE COURSE (t=50mm)
TACK COAT 0.4 l/m²
AC SURFACE BASE (t=50mm)
PRIME COAT 0.4 l/m²
BASE COURSE (t=250mm)
SUB BASE (t=500mm)

Type E2



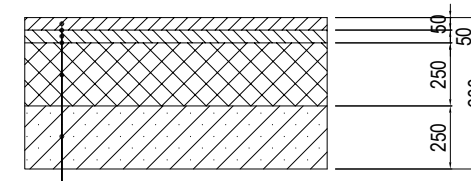
AC SURFACE COURSE (t=50mm)
TACK COAT 0.4 l/m²
AC SURFACE BASE (t=50mm)
PRIME COAT 0.4 l/m²
BASE COURSE (t=250mm)
SUB BASE (t=350mm)

Type E3



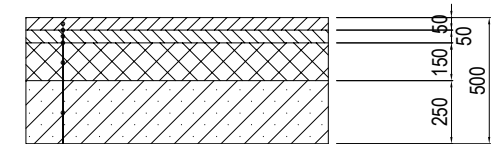
AC SURFACE COURSE (t=50mm)
TACK COAT 0.4 l/m²
AC SURFACE BASE (t=50mm)
PRIME COAT 0.4 l/m²
BASE COURSE (t=250mm)
SUB BASE (t=300mm)

Type E4



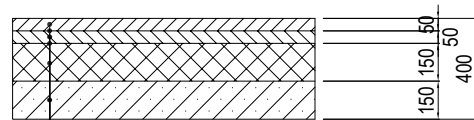
AC SURFACE COURSE (t=50mm)
TACK COAT 0.4 l/m²
AC SURFACE BASE (t=50mm)
PRIME COAT 0.4 l/m²
BASE COURSE (t=250mm)
SUB BASE (t=250mm)

Type E5



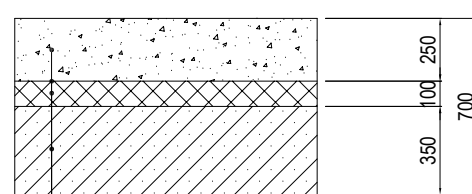
AC SURFACE COURSE (t=50mm)
TACK COAT 0.4 l/m²
AC SURFACE BASE (t=50mm)
PRIME COAT 0.4 l/m²
BASE COURSE (t=150mm)
SUB BASE (t=250mm)

Type E6



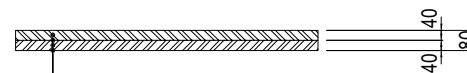
AC SURFACE COURSE (t=50mm)
TACK COAT 0.4 l/m²
AC SURFACE BASE (t=50mm)
PRIME COAT 0.4 l/m²
BASE COURSE (t=150mm)
SUB BASE (t=150mm)

Type C



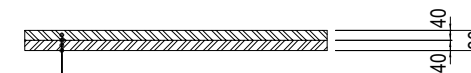
CONCRETE (t=250mm)
PRIME COAT 0.4 l/m²
BASE COURSE (t=100mm)
SUB BASE (t=350mm)

**Type B1
(FOR CONCRETE DECK)**



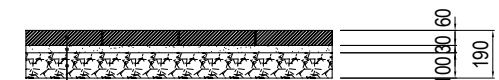
AC SURFACE COURSE (t=40mm)
TACK COAT 0.4 l/m²
AC SURFACE COURSE (t=40mm)
WATERPROOFING
BONDING COAT

**Type B2
(FOR STEEL DECK)**



POLYMER-MODIFIED ASPHALT II (t=40mm)
TACK COAT 0.4 l/m²
POLYMER-MODIFIED ASPHALT III-WF (t=40mm)
WATERPROOFING
BONDING COAT

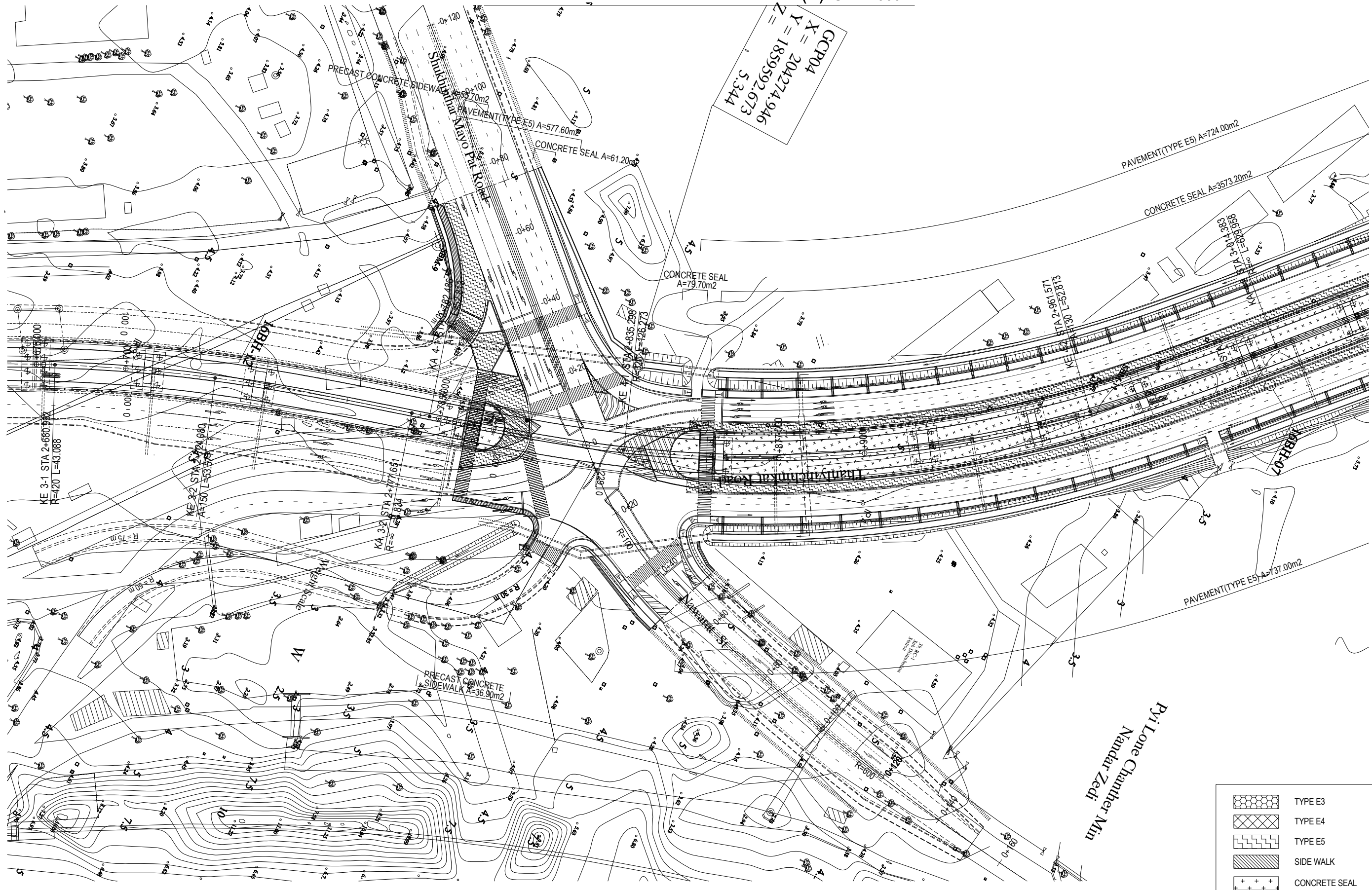
Side Walk



PRECAST CONCRETE PAVING BLOCK (300x300mm x t=60mm)
SAND (t=30mm)
SOIL AGGREGATE: C-30 (t=100mm)

<small>PROJECT NAME</small> DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	<small>FINANCED BY</small> JAPAN INTERNATIONAL COOPERATION AGENCY	<small>COUNTERPART</small> REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	<small>JICA STUDY TEAM</small> NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">NAME</th> <th style="text-align: left;">SIGNATURE</th> <th style="text-align: left;">DATE</th> </tr> <tr> <td>PREPARED BY K. TACHIBANA</td> <td></td> <td>29 Sep. 2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>3 Oct. 2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>6 Oct. 2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY K. TACHIBANA		29 Sep. 2017	CHECKED BY T. HAYAKAWA		3 Oct. 2017	APPROVED BY Y. SANO		6 Oct. 2017	<small>DRAWING TITLE</small> DETAIL OF ASPHALT CONCRETE PAVEMENT S=1:30	<small>PACKAGE</small> 3 DWG No. P3-RD-0300
NAME	SIGNATURE	DATE																
PREPARED BY K. TACHIBANA		29 Sep. 2017																
CHECKED BY T. HAYAKAWA		3 Oct. 2017																
APPROVED BY Y. SANO		6 Oct. 2017																

PLAN FOR PAVEMENT TYPE(1) S= 1:1000

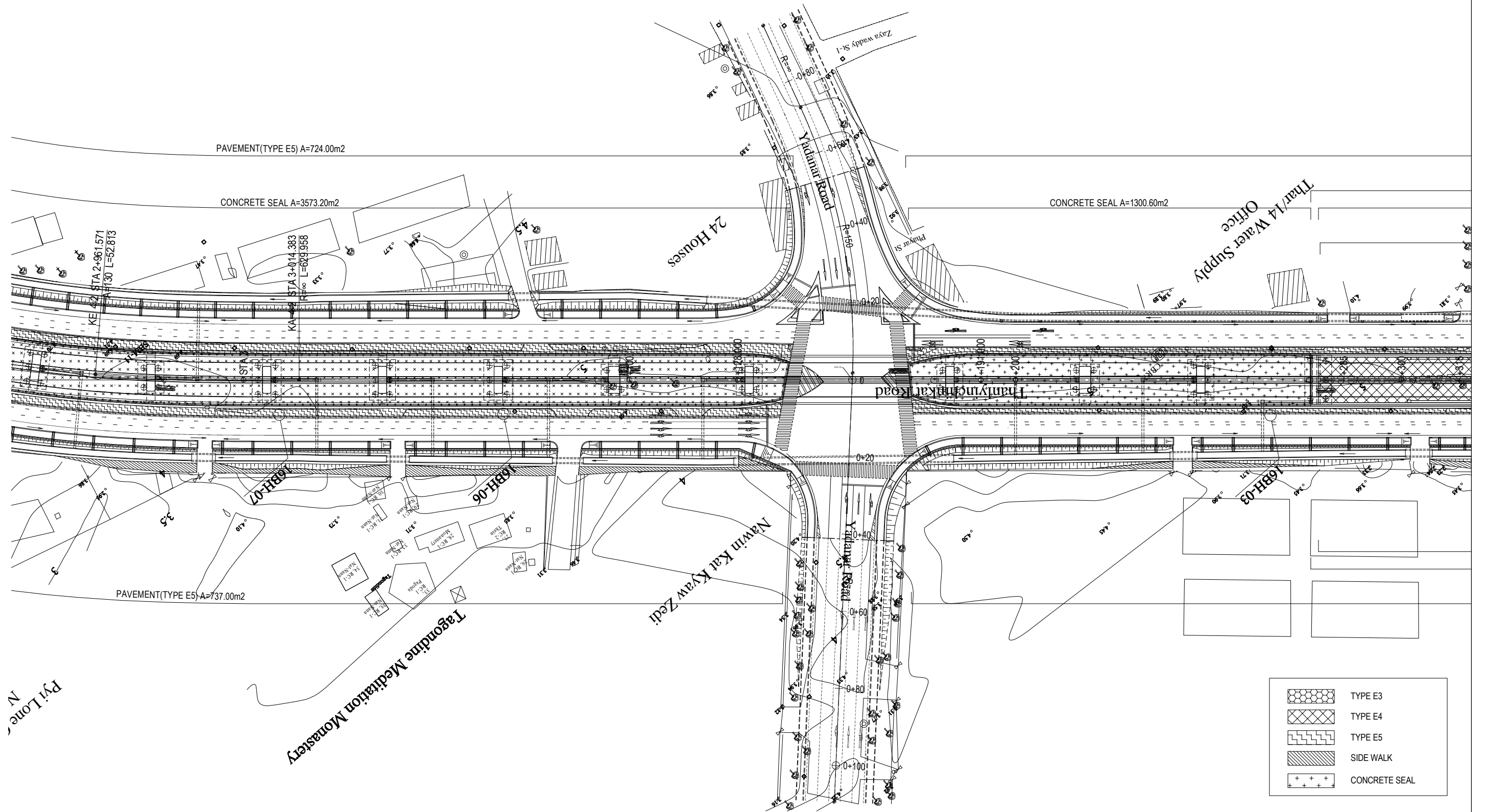


	TYPE E3
	TYPE E4
	TYPE E5
	SIDE WALK
	CONCRETE SEAL

Pyi Lone Chantler Min
Nandar Zedi

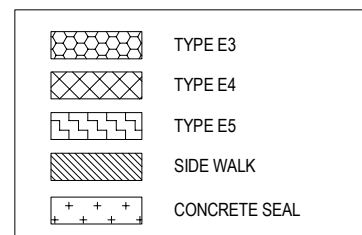
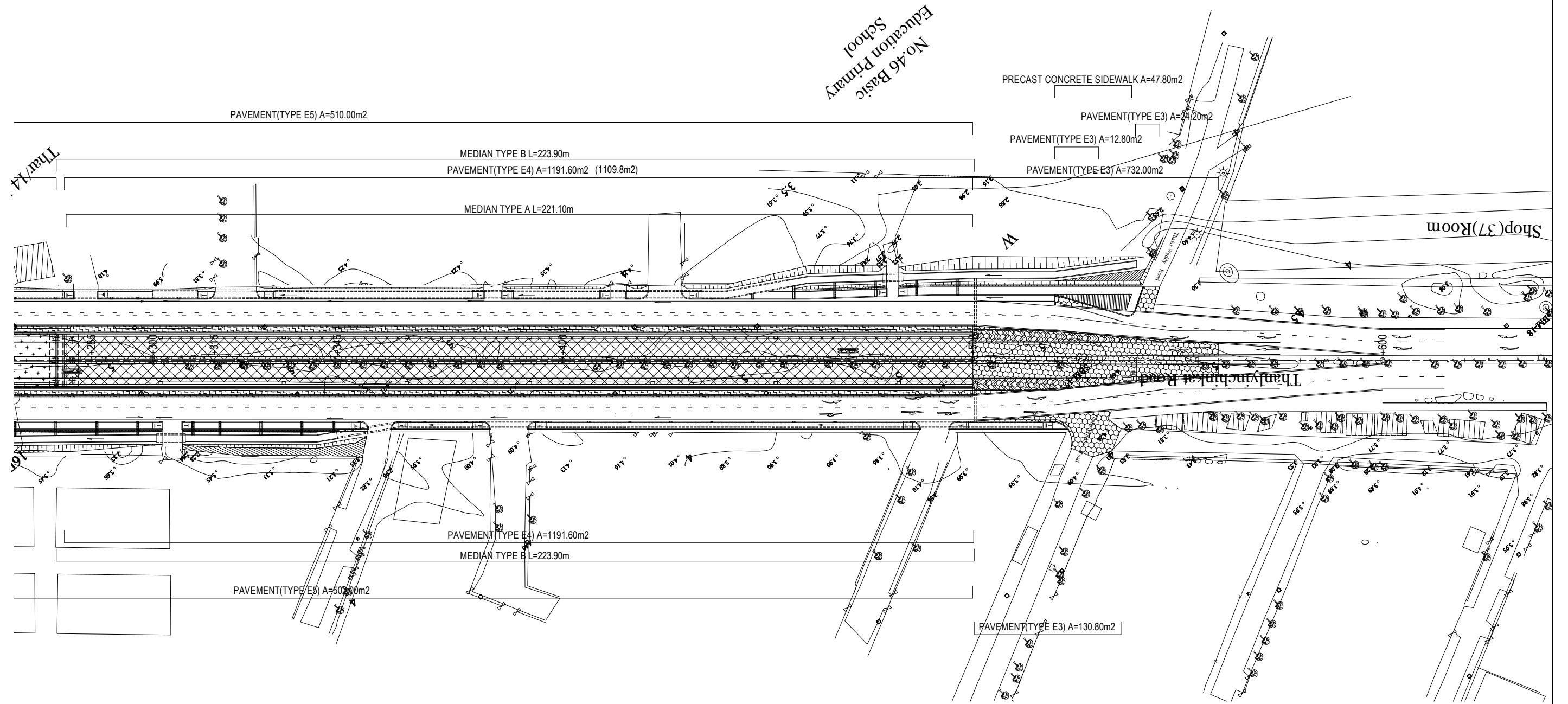
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE PLAN FOR PAVEMENT TYPE(1) S=1:1000	PACKAGE 3 DWG No. P3-RD-0310	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017

PLAN FOR PAVEMENT TYPE(2) S= 1:1000



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE PLAN FOR PAVEMENT TYPE(2) S=1:1000	PACKAGE 3 DWG No. P3-RD-0320	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017						

PLAN FOR PAVEMENT TYPE(3) S= 1:1000



PROJECT NAME
 DETAILED DESIGN ON
 BAGO RIVER BRIDGE
 CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
 COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
 MINISTRY OF CONSTRUCTION
 DEPARTMENT OF BRIDGE

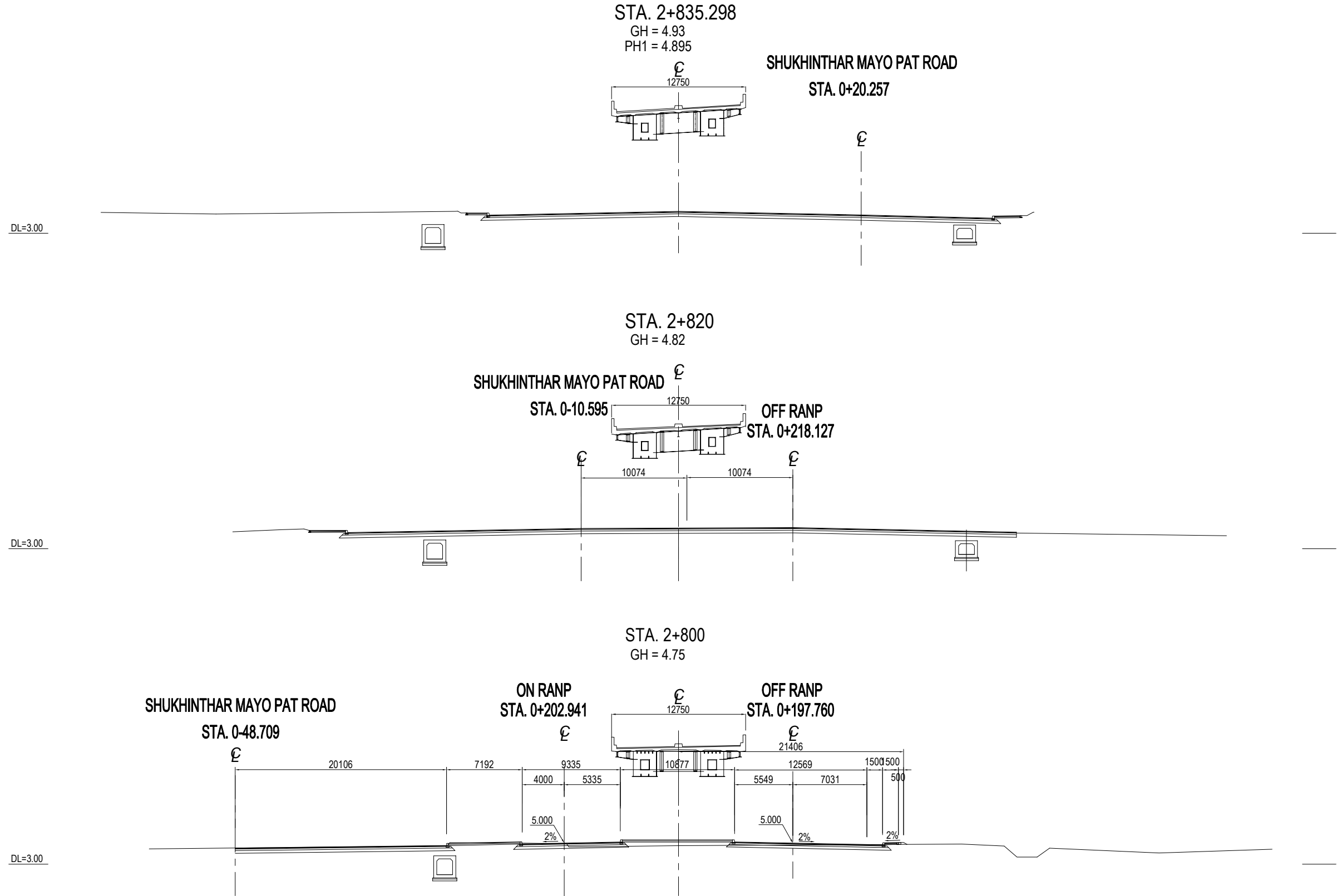
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO., LTD.
 NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
 PLAN FOR PAVEMENT TYPE(3)
 S=1:1000

PACKAGE
 3
 DWG No.
 P3-RD-0330

CROSS SECTION(1) S= 1:400

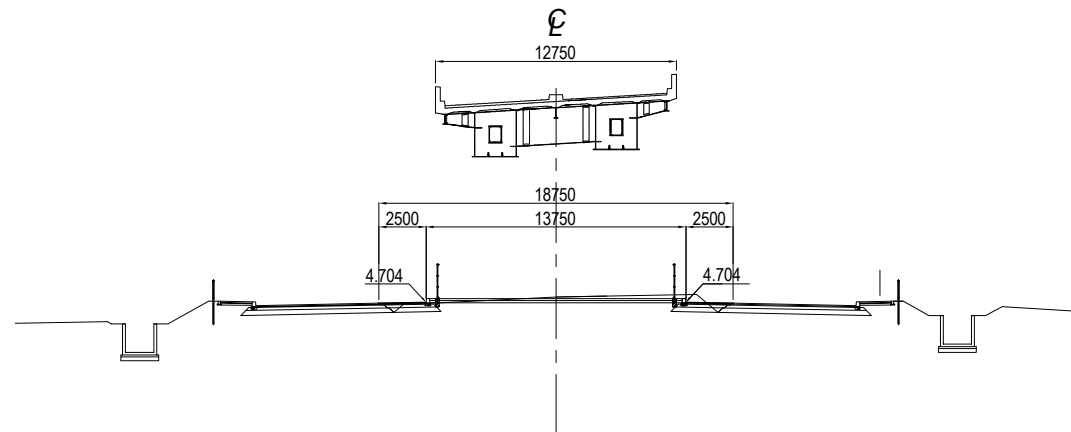


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

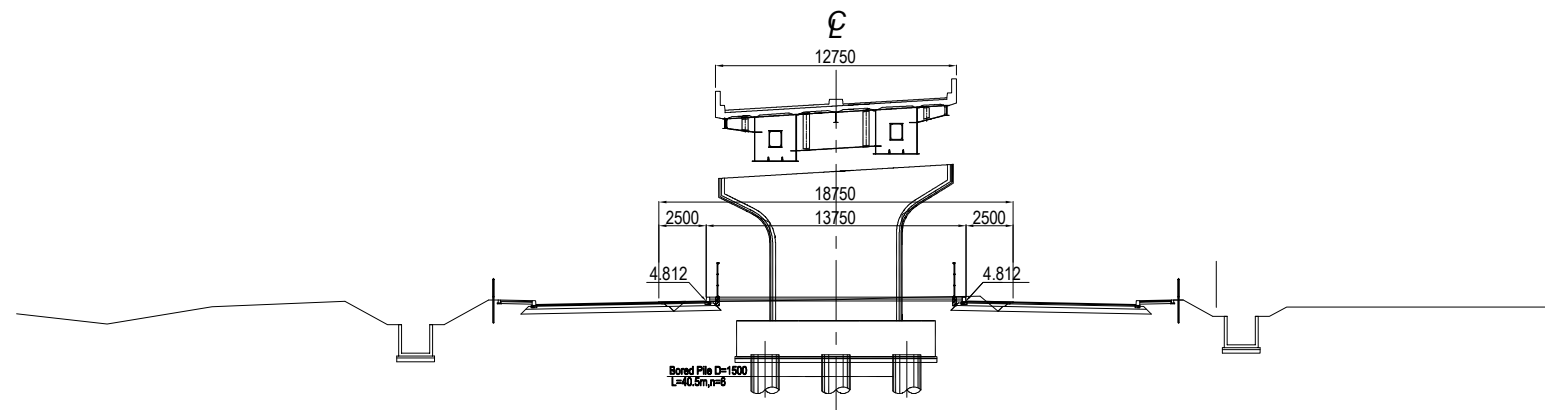
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	CROSS SECTION(1) S= 1:400	3
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P3-RD-0400

CROSS SECTION(2) S= 1:400

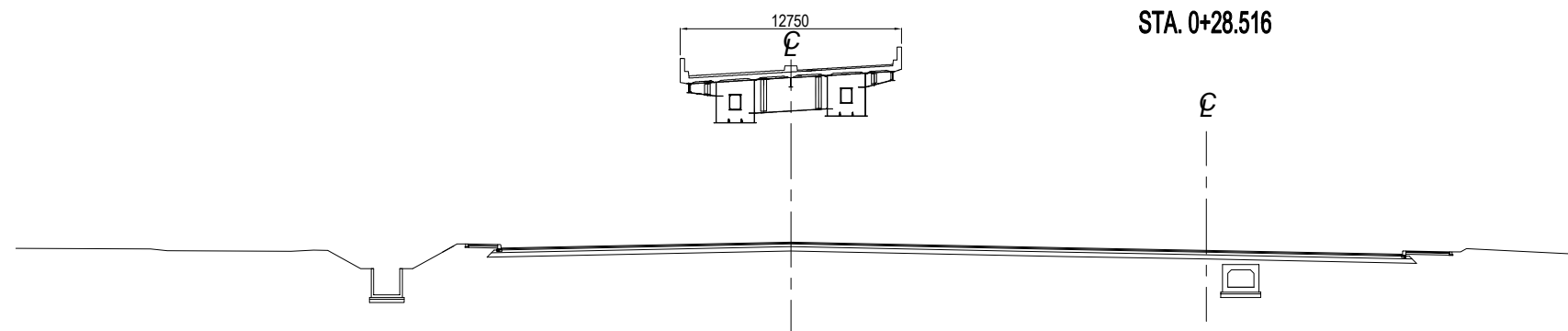
STA. 2+880
GH = 4.98
PH1 = 4.654



STA. 2+860
GH = 4.88
PH1 = 4.762



STA. 2+840
GH = 4.91
PH1 = 4.869

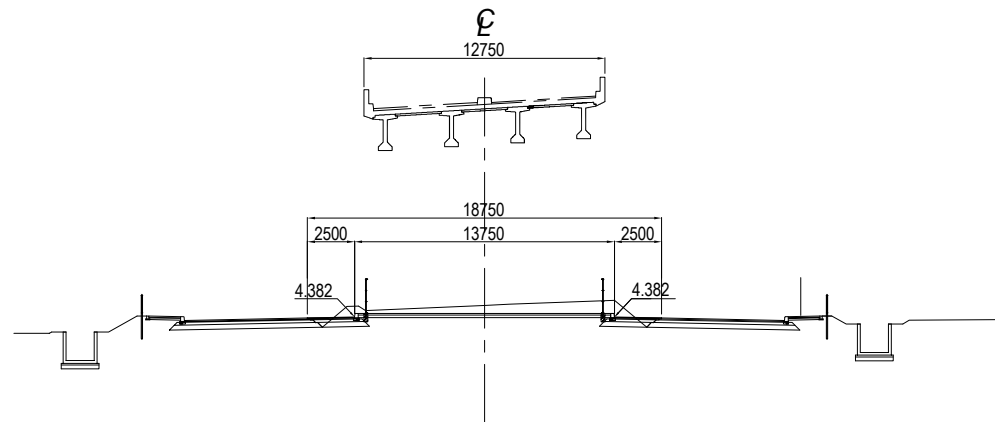


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(2) S= 1:400	PACKAGE 3 DWG No. P0-RD-0410	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017

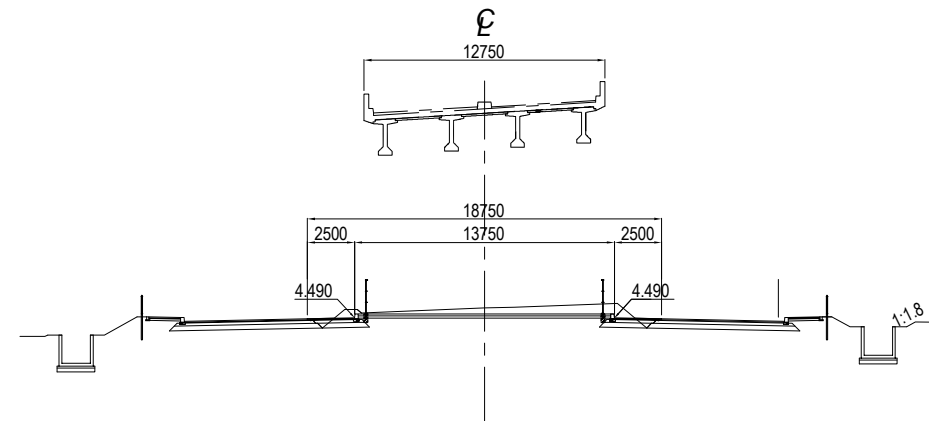
CROSS SECTION(3) S= 1:400

STA. 2+940
GH = 4.99
PH 1= 4.332



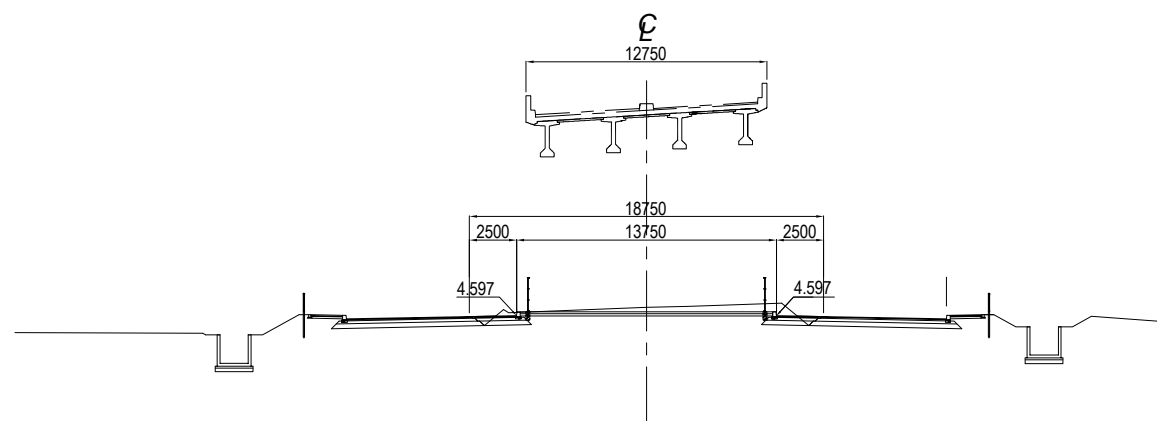
DL=3.00

STA. 2+920
GH = 5.01
PH1 = 4.440



DL=3.00

STA. 2+900
GH = 5.04
PH 1= 4.547



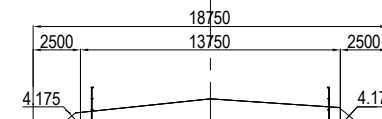
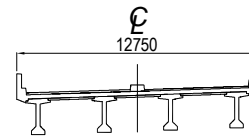
DL=3.00

Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(3) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-0420

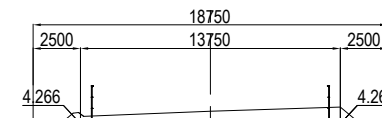
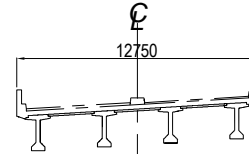
CROSS SECTION(4) S= 1:400

STA. 2+980
GH = 5.58
PH1 = 4.125



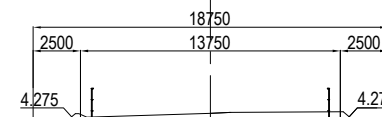
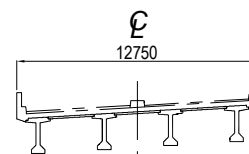
DL=3.00

STA. 2+961.571
GH = 4.95
PH1 = 4.216



DL=3.00

STA. 2+960
GH = 4.97
PH1=4.225



DL=3.00

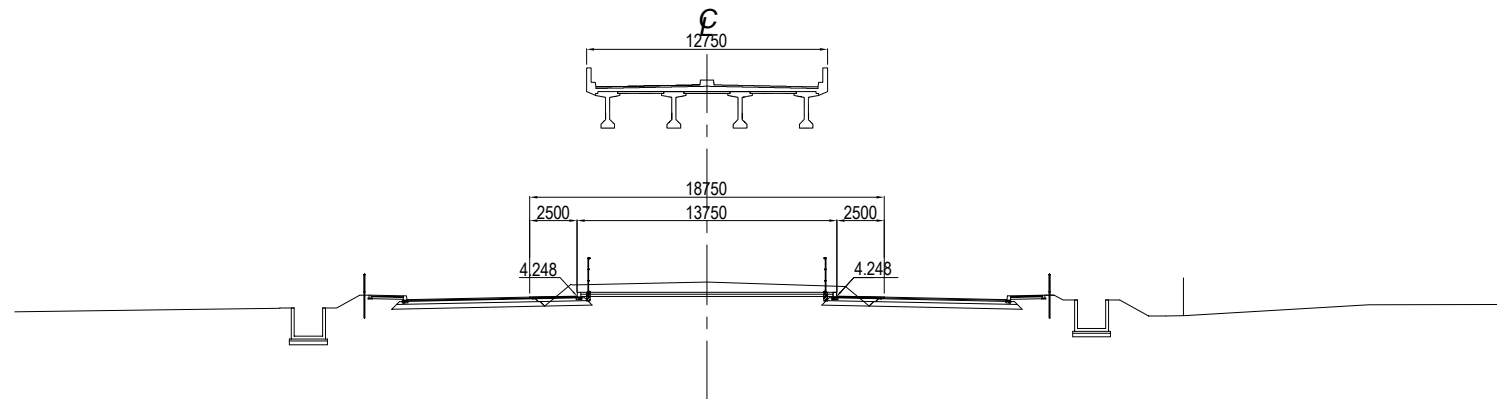
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(4) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-0430

CROSS SECTION(5) S= 1:400

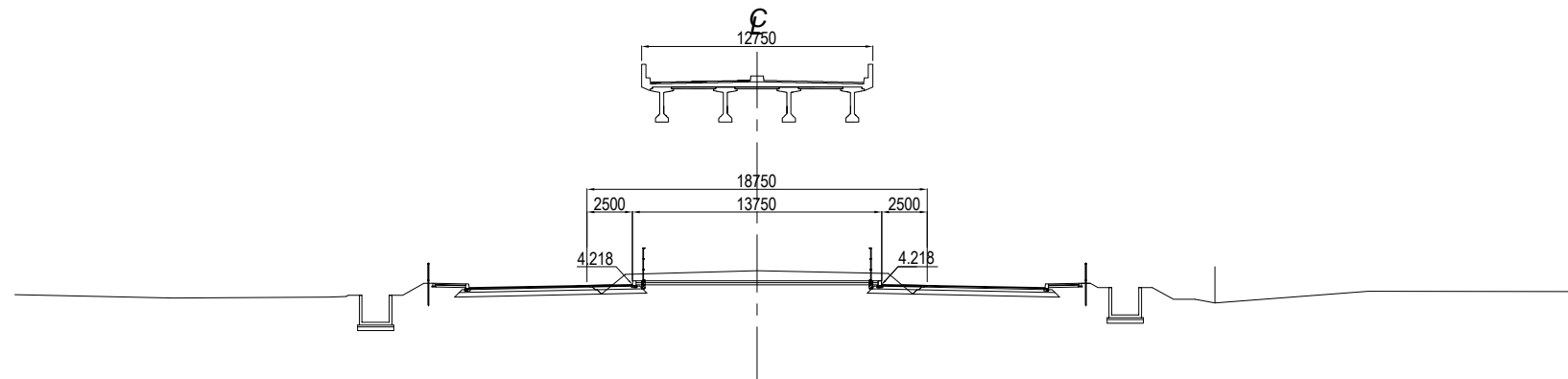
STA. 3+020
GH = 4.99
PH1 = 4.198

DL=3.00



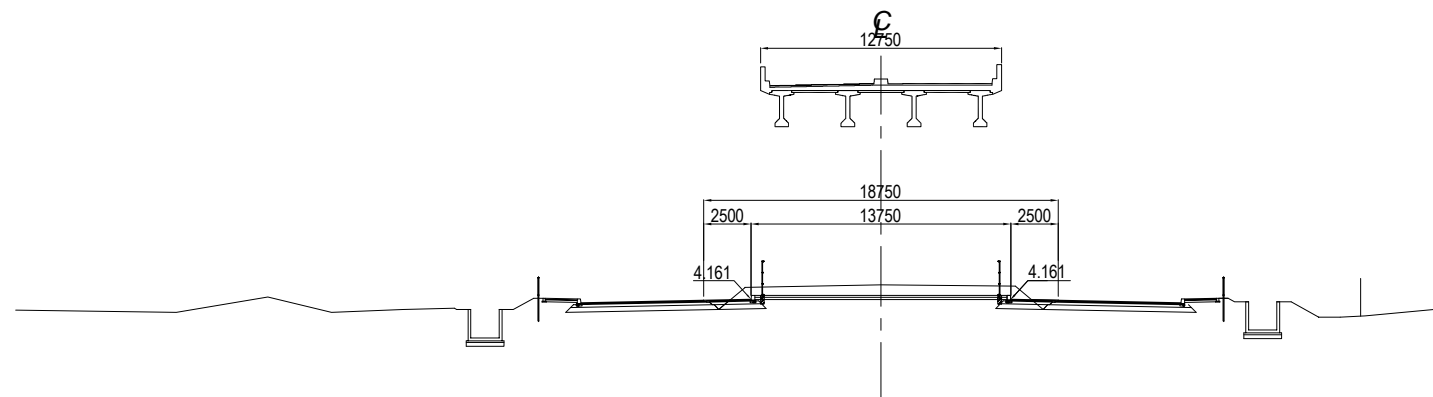
STA. 3+014.383
GH = 4.98
PH1 = 4.168

DL=3.00



STA. 3+0.0
GH = 4.92
PH1 = 4.111

DL=3.00



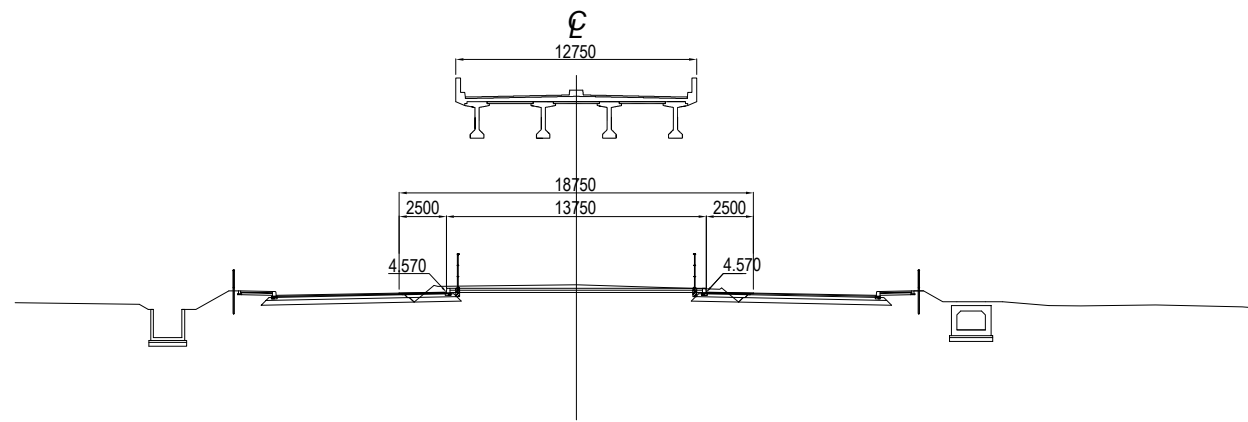
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(5) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-0440

CROSS SECTION(6) S= 1:400

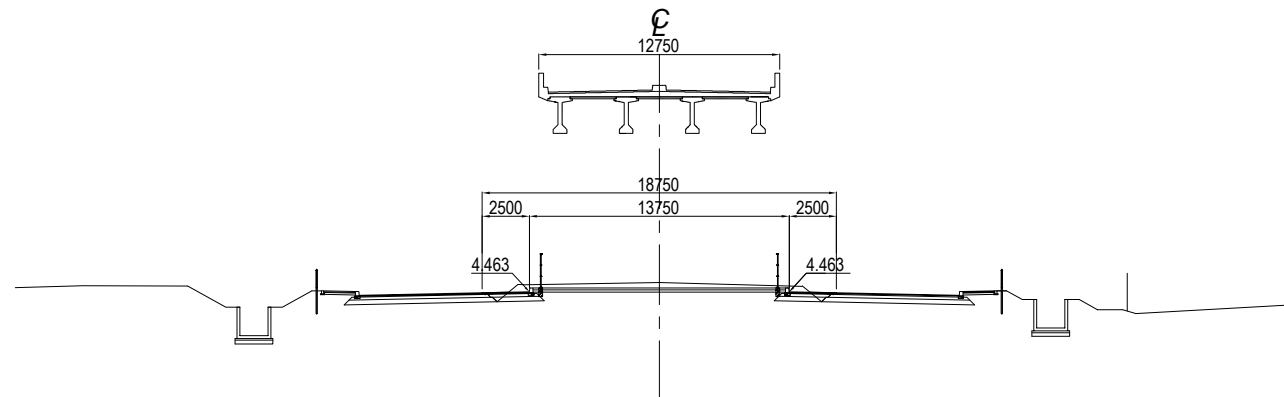
STA. 3+080
GH = 4.96
PH1 = 4.520

DL=3.00



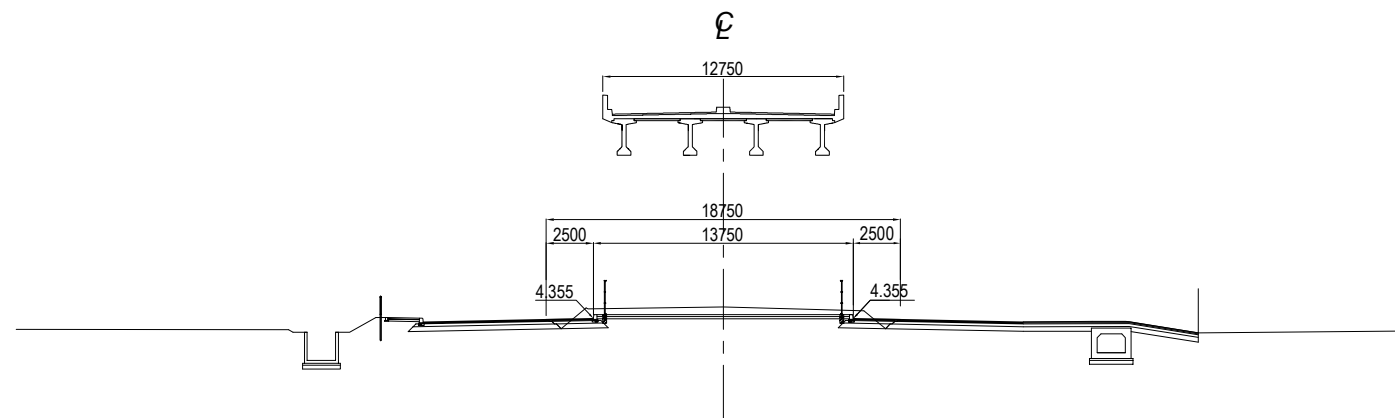
STA. 3+060
GH = 4.95
PH1 = 4.413

DL=3.00



STA. 3+040
GH = 4.97
PH1 = 4.305

DL=3.00

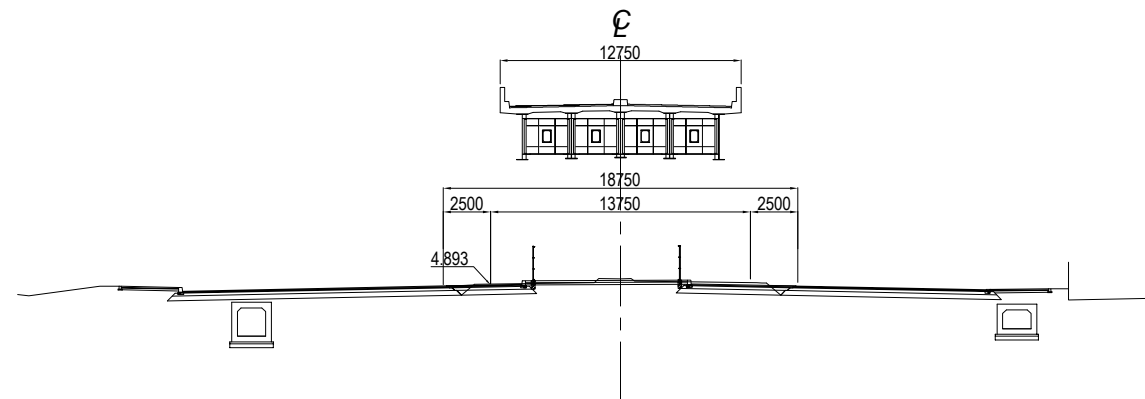


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	CROSS SECTION(6) S= 1:400	3
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P3-RD-0450

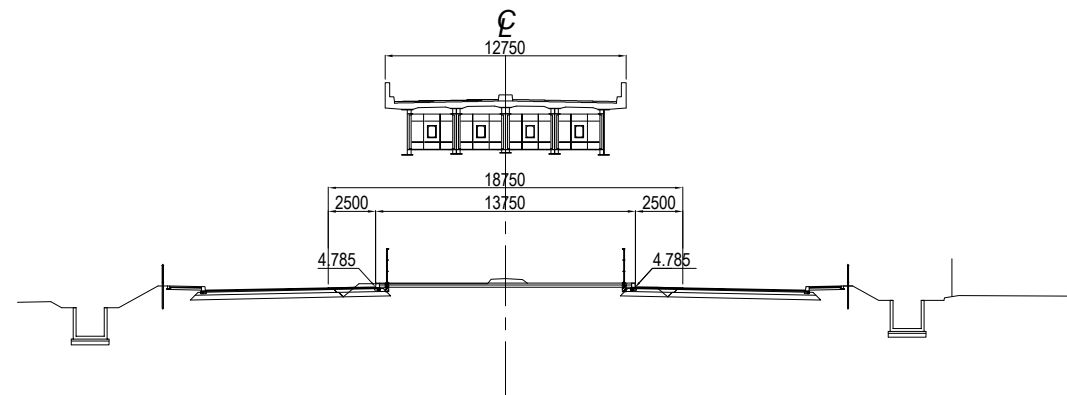
CROSS SECTION(7) S= 1:400

STA. 3+140
GH = 5.22
PH1 = 4.843



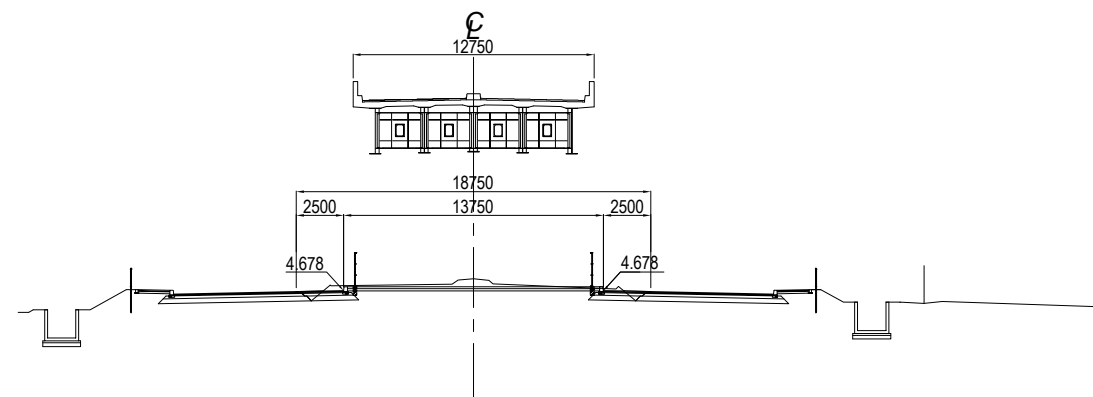
DL=3.00

STA. 3+120
GH = 5.22
PH1 = 4.735



DL=3.00

STA. 3+100
GH = 5.30
PH1 = 4.628



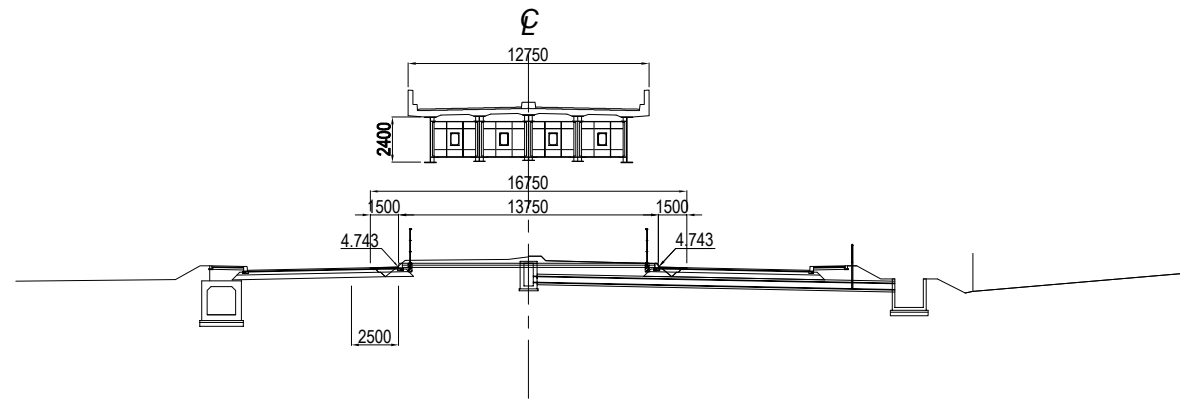
DL=3.00

Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(7) S= 1:400	PACKAGE 3 DWG No. P3-RD-0460	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017

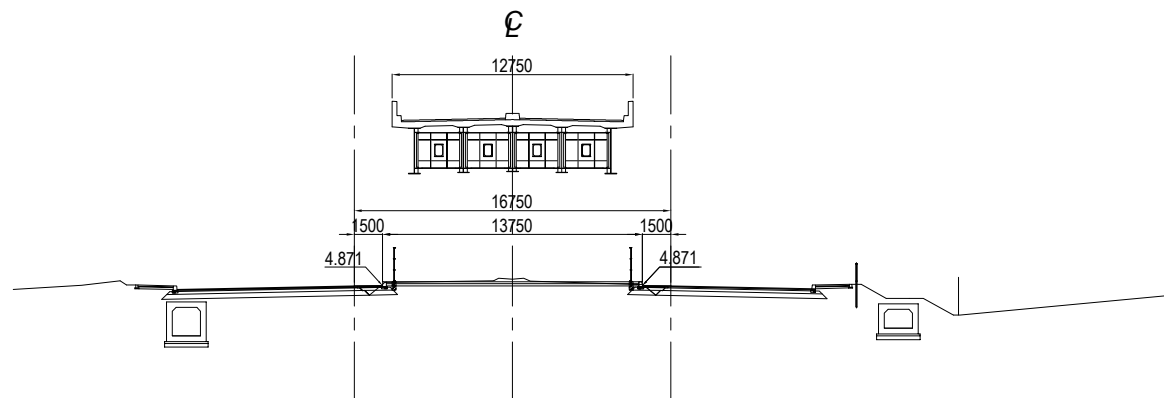
CROSS SECTION(8) S= 1:400

STA. 3+200
GH = 5.29
PH2 = 4.713



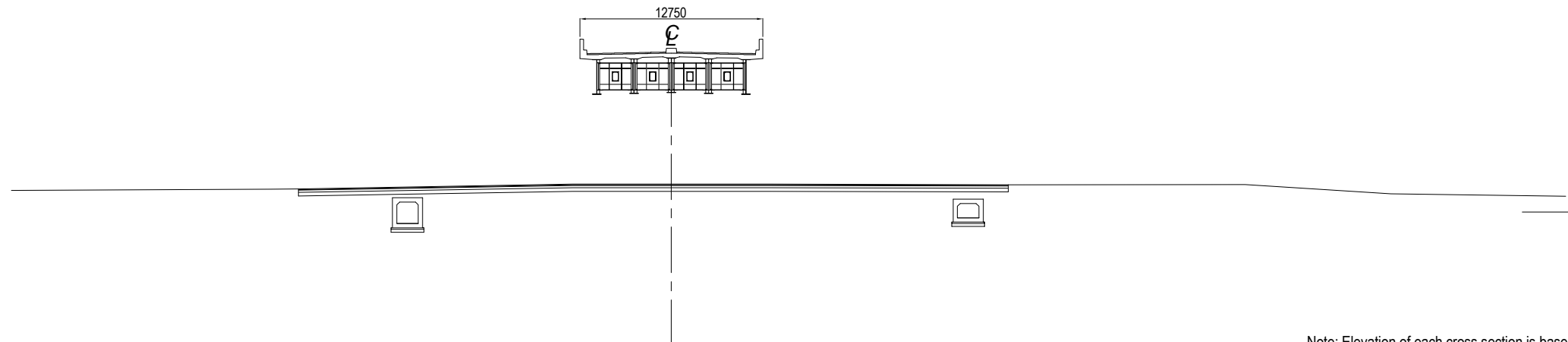
DL=3.00

STA. 3+180
GH = 5.21
PH2 = 4.841



DL=3.00

STA. 3+160
GH = 5.26
PH1 = 4.891 PH2 = 4.911



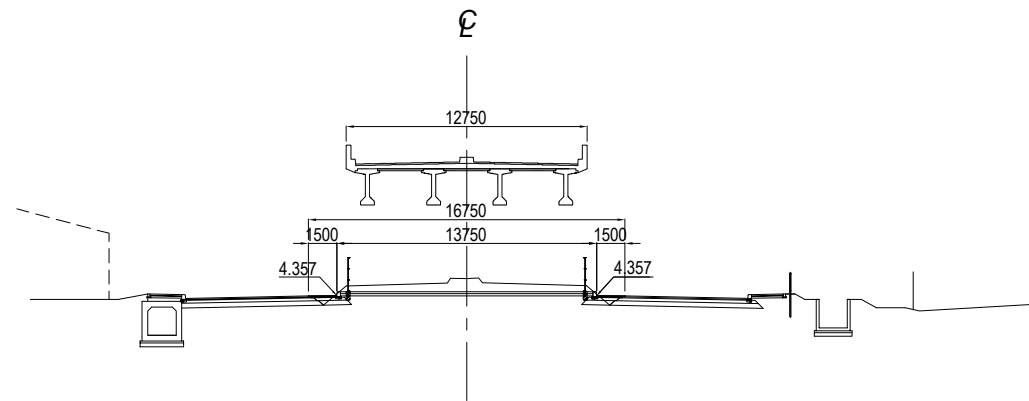
DL=3.00

Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY	K. TACHIBANA	29 Sep.2017	CROSS SECTION(8) S= 1:400	3
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		DWG No.
				APPROVED BY	Y. SANO	6 Oct.2017		P3-RD-0470

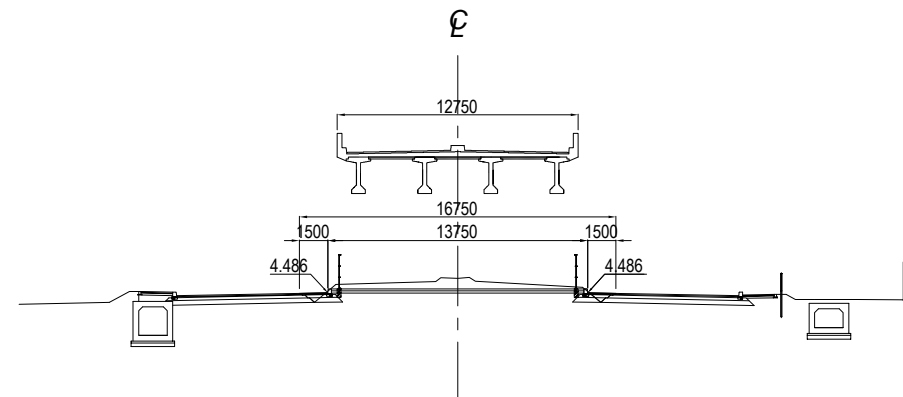
CROSS SECTION(9) S= 1:400

STA. 3+260
GH = 5.24
PH2 = 4.327



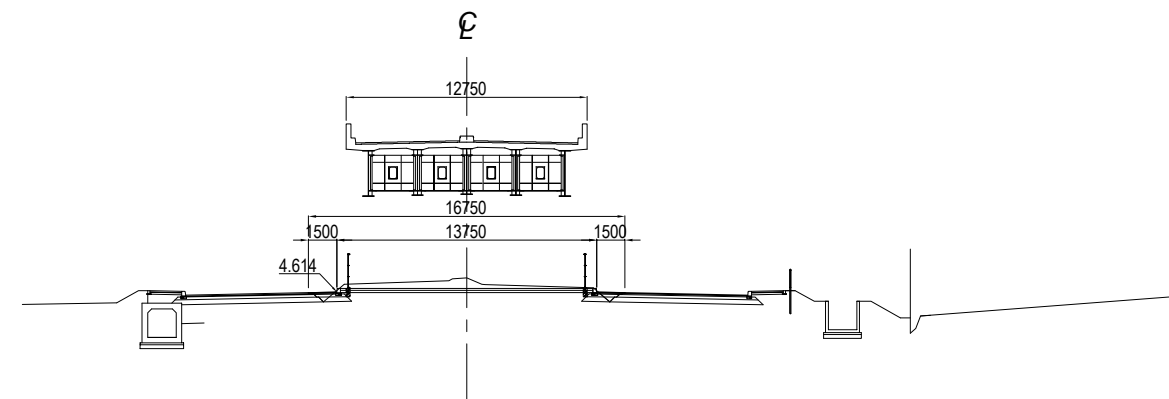
DL=3.00

STA. 3+240
GH = 5.25
PH2 = 4.456



DL=3.00

STA. 3+220
GH = 5.36
PH2 = 4.584



DL=3.00

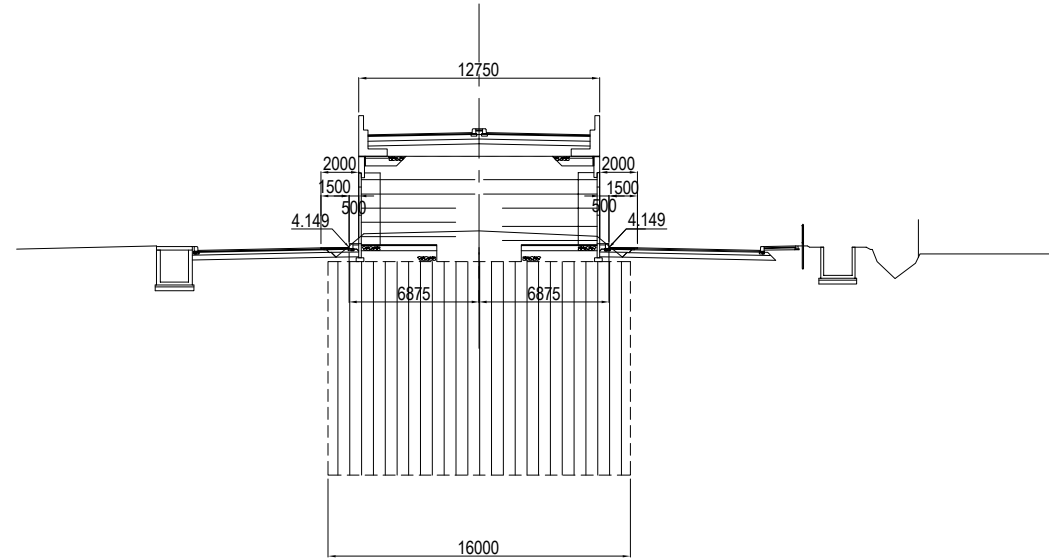
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY	K. TACHIBANA	29 Sep.2017	CROSS SECTION(9) S= 1:400	3
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		DWG No.
				APPROVED BY	Y. SANO	6 Oct.2017		P3-RD-0480

CROSS SECTION(10) S= 1:400

STA. 3+300
GH = 5.03
PH2 = 4.119

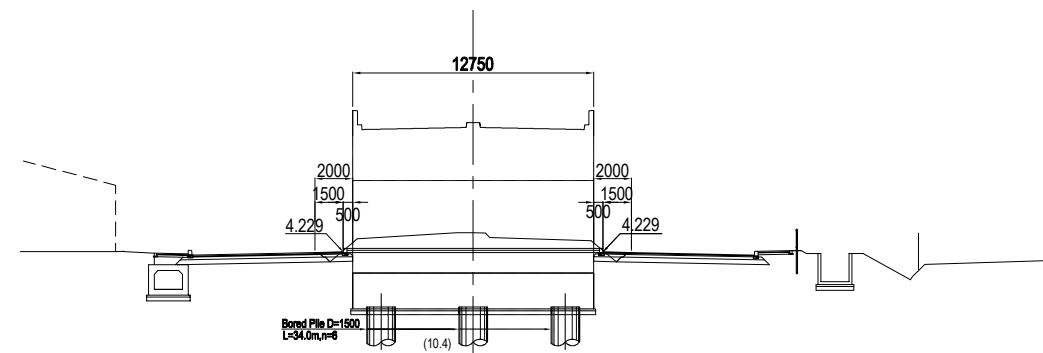
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DL=3.00

STA. 3+280
GH = 5.25
PH2 = 4.199

℄



DL=3.00

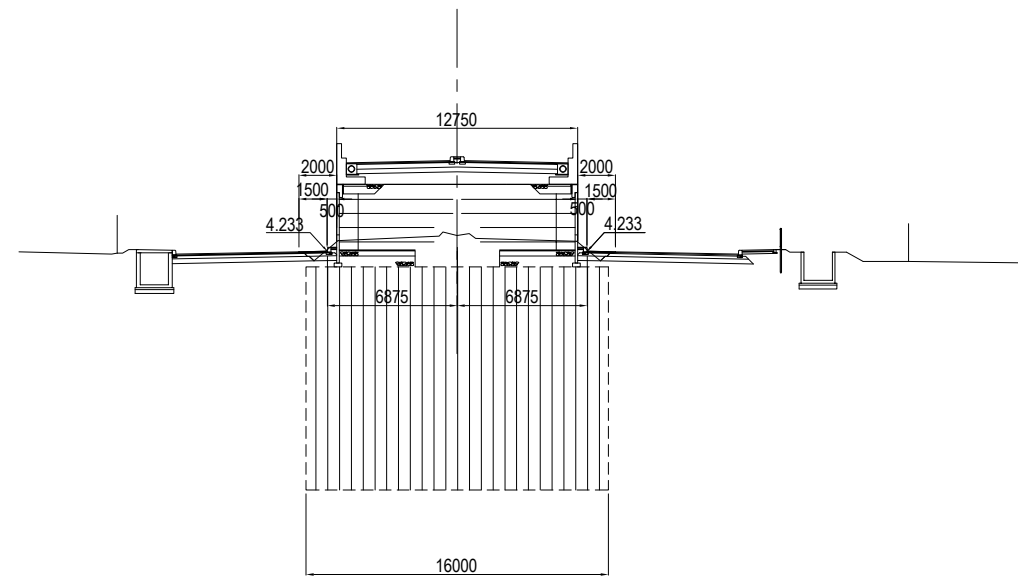
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY CHECKED BY APPROVED BY	K. TACHIBANA T. HAYAKAWA Y. SANO	29 Sep.2017 3 Oct.2017 6 Oct.2017	CROSS SECTION(10) S= 1:400	3 DWG No. P3-RD-0490

CROSS SECTION(11) S= 1:400

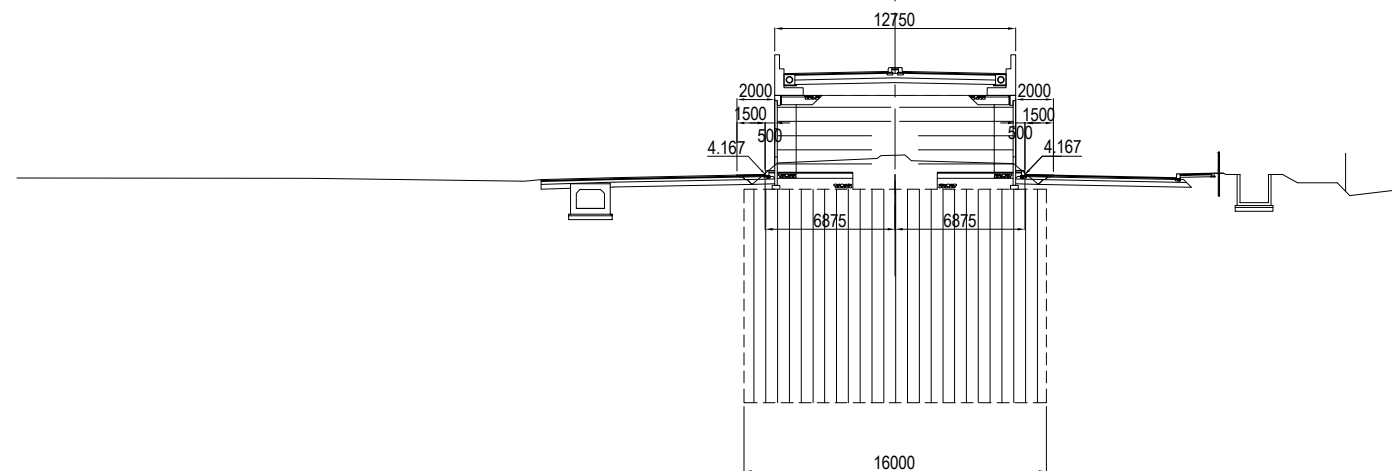
STA. 3+340
GH = 5.06
PH2 = 4.203

℄



STA. 3+320
GH = 5.18
PH2 = 4.137

℄

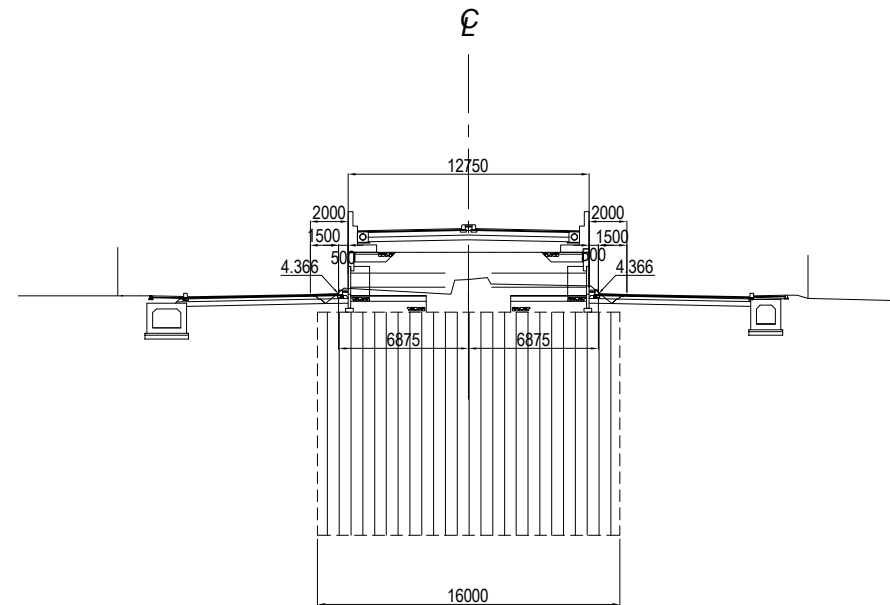


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY K. TACHIBANA		29 Sep.2017	CROSS SECTION(11) S= 1:400	3
				CHECKED BY T. HAYAKAWA		3 Oct.2017		DWG No.
				APPROVED BY Y. SANO		6 Oct.2017		P3-RD-0500

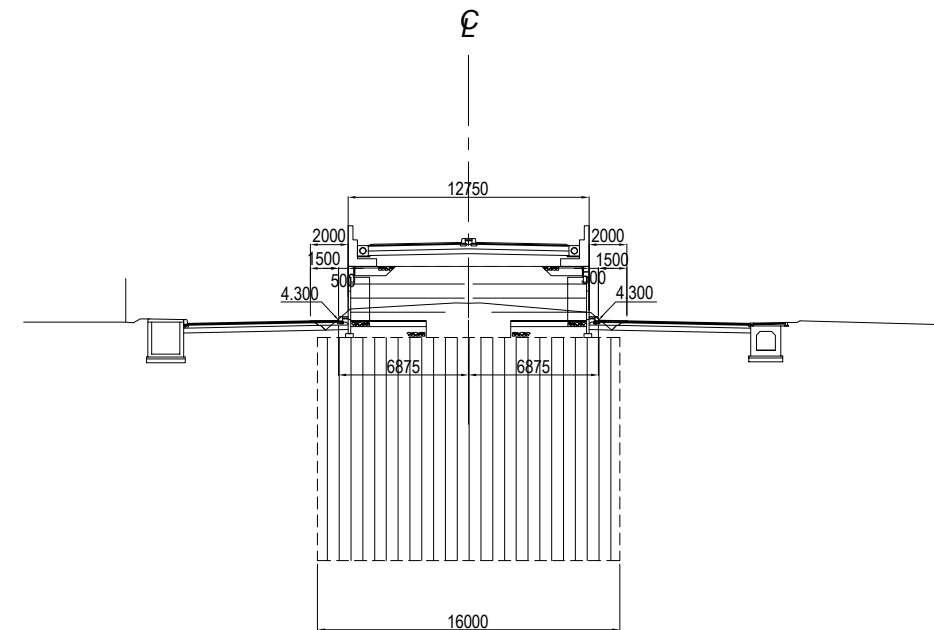
CROSS SECTION(12) S= 1:400

STA. 3+380
GH = 5.13
PH2 = 4.336



DL=3.00

STA. 3+360
GH = 5.20
PH2 = 4.270



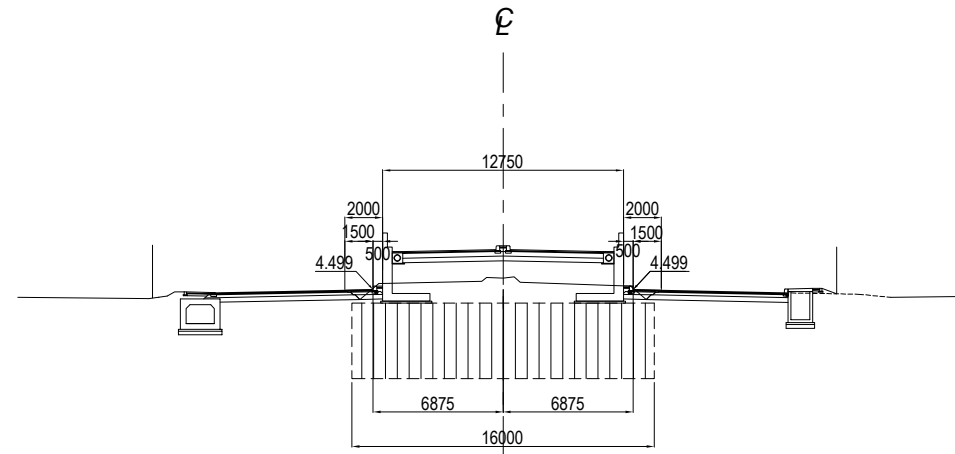
DL=3.00

Note: Elevation of each cross section is based on Mean Sea Level (MSL).

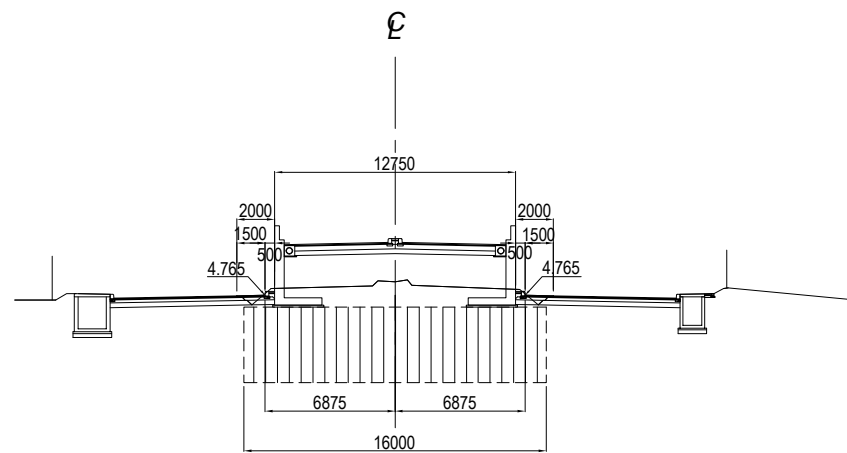
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY	K. TACHIBANA	29 Sep.2017	CROSS SECTION(12) S= 1:400	3
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		DWG No.
				APPROVED BY	Y. SANO	6 Oct.2017		P3-RD-0510

CROSS SECTION(13) S= 1:400

STA. 3+420
GH = 5.12
PH2= 4.469



STA. 3+400
GH = 5.15
PH2 = 4.403

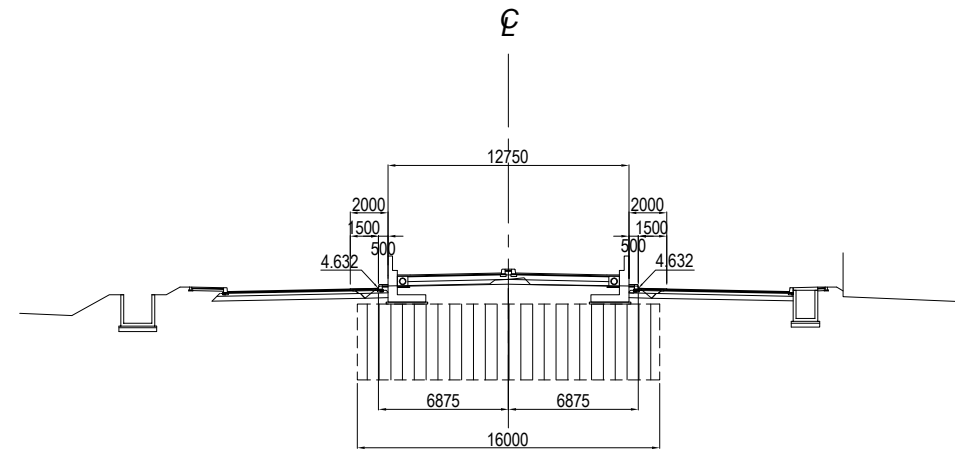


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

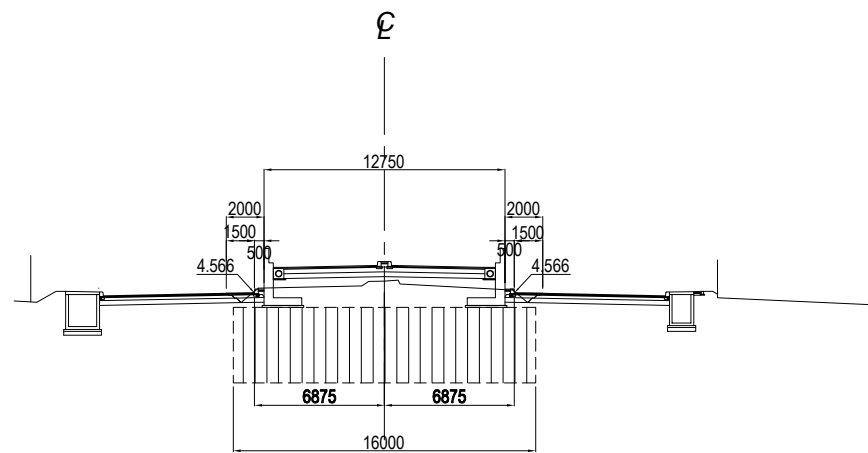
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(13) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-0520

CROSS SECTION(14) S= 1:400

STA. 3+460
GH = 5.11
PH2 = 4.602



STA. 3+440
GH = 5.19
PH2 = 4.536



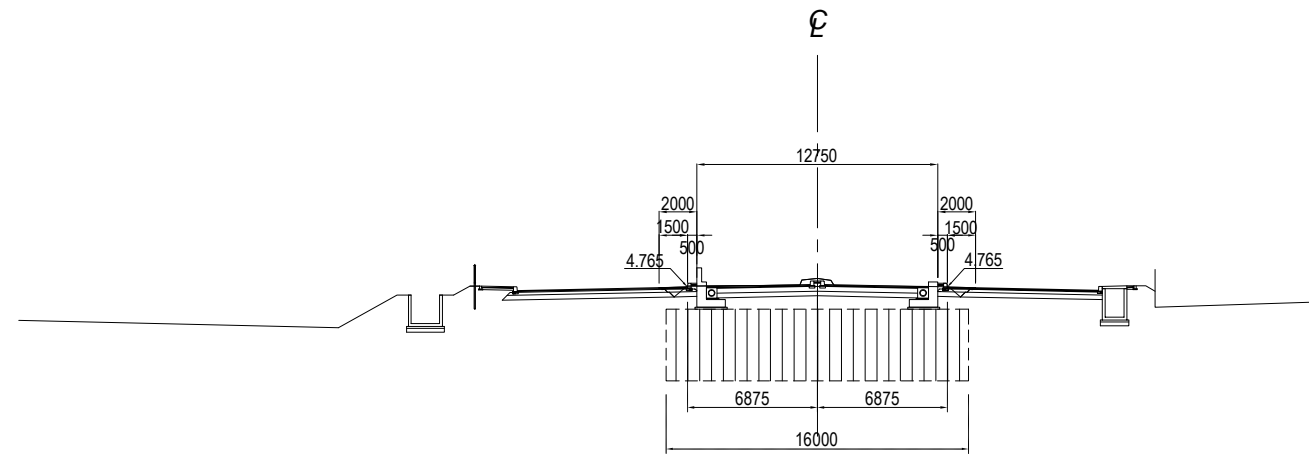
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY K. TACHIBANA		29 Sep.2017	CROSS SECTION(14) S= 1:400	3
				CHECKED BY T. HAYAKAWA		3 Oct.2017		DWG No.
				APPROVED BY Y. SANO		6 Oct.2017		P3-RD-0530

CROSS SECTION(15) S= 1:400

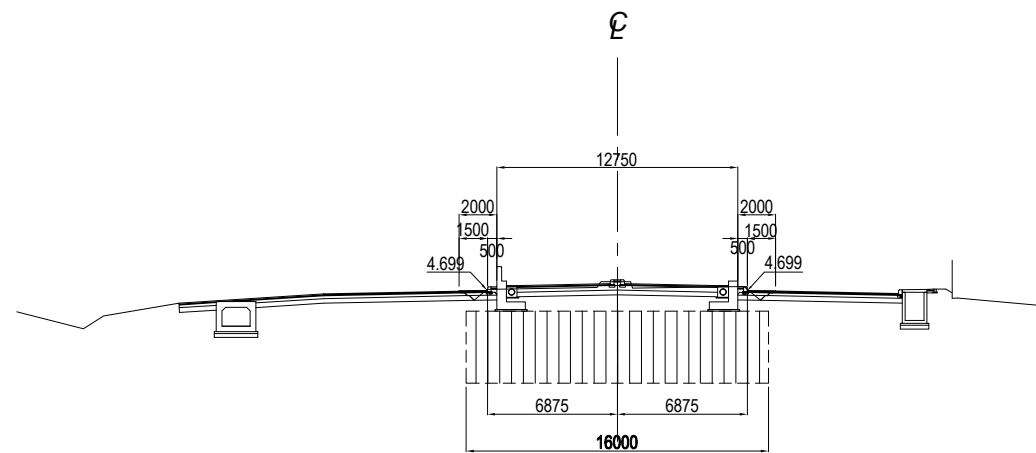
STA. 3+500
GH = 5.23
PH2 = 4.735

DL=3.00



STA. 3+480
GH = 5.16
PH2 = 4.669

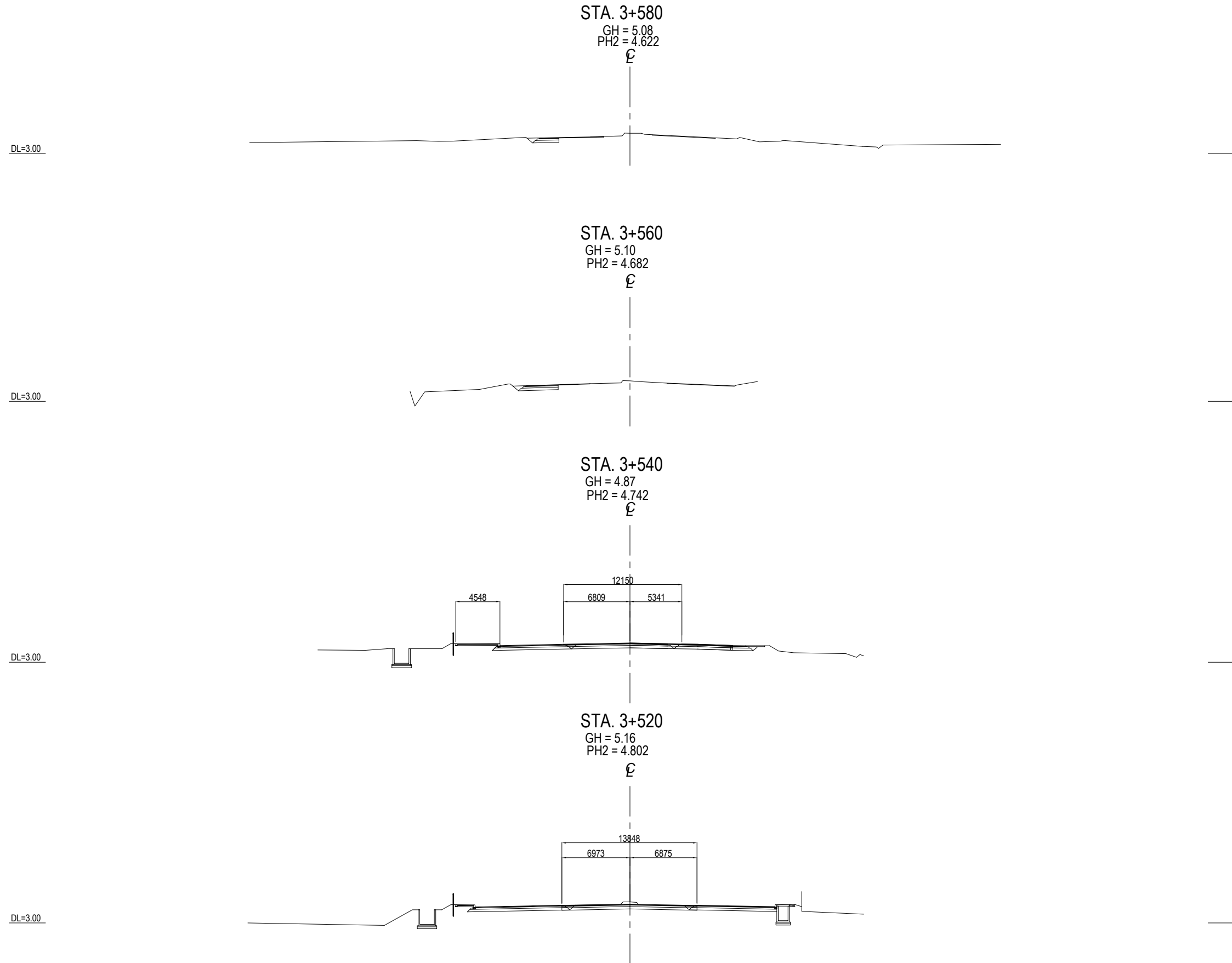
DL=3.00



Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	CROSS SECTION(15) S= 1:400	3
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P3-RD-0540

CROSS SECTION(16) S= 1:400



STA. 3+580
GH = 5.08
PH2 = 4.622

STA. 3+560
GH = 5.10
PH2 = 4.682

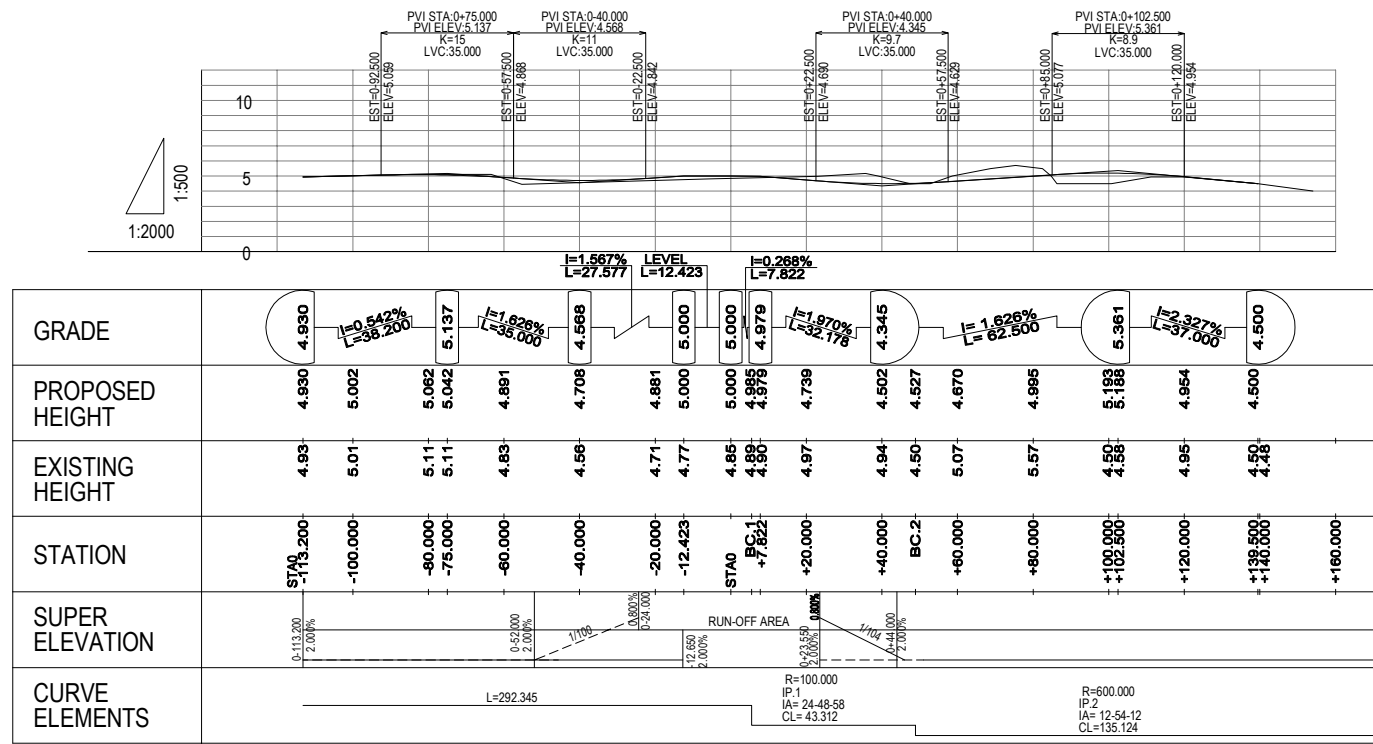
STA. 3+540
GH = 4.87
PH2 = 4.742

STA. 3+520
GH = 5.16
PH2 = 4.802

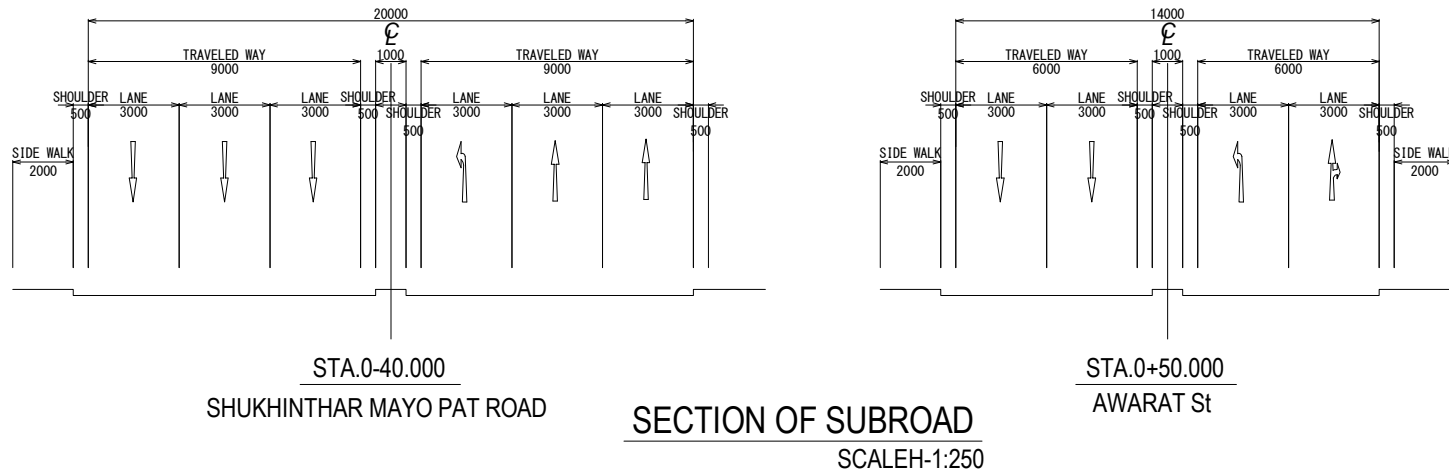
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(16) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-0550

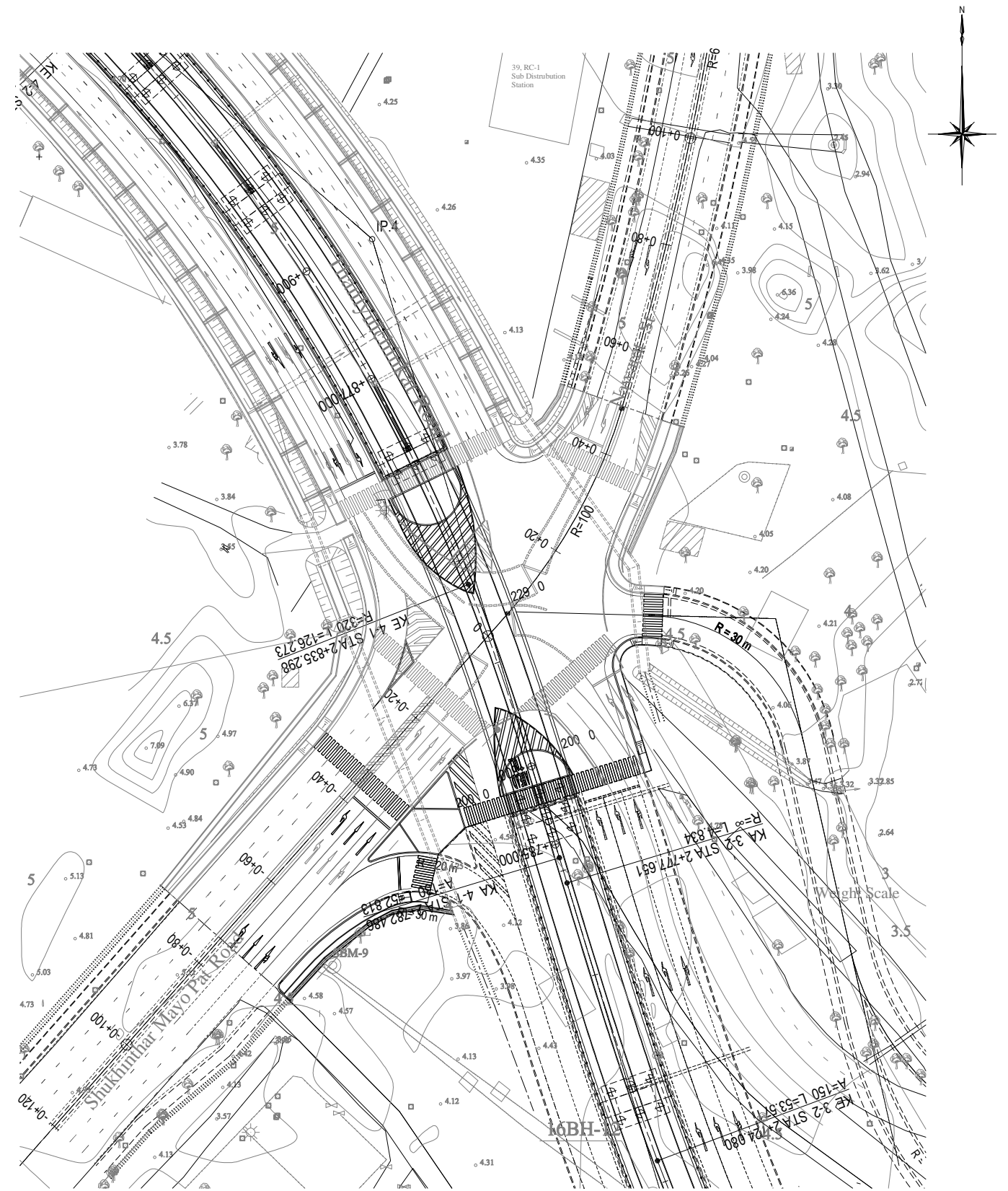
INTERSECTION PLAN, PROFILE AND SECTION (SHUKHINTHAR INTERSECTION STA.2+830)



PROFILE OF SUBROAD
SCALE-1:2000,V-1:500



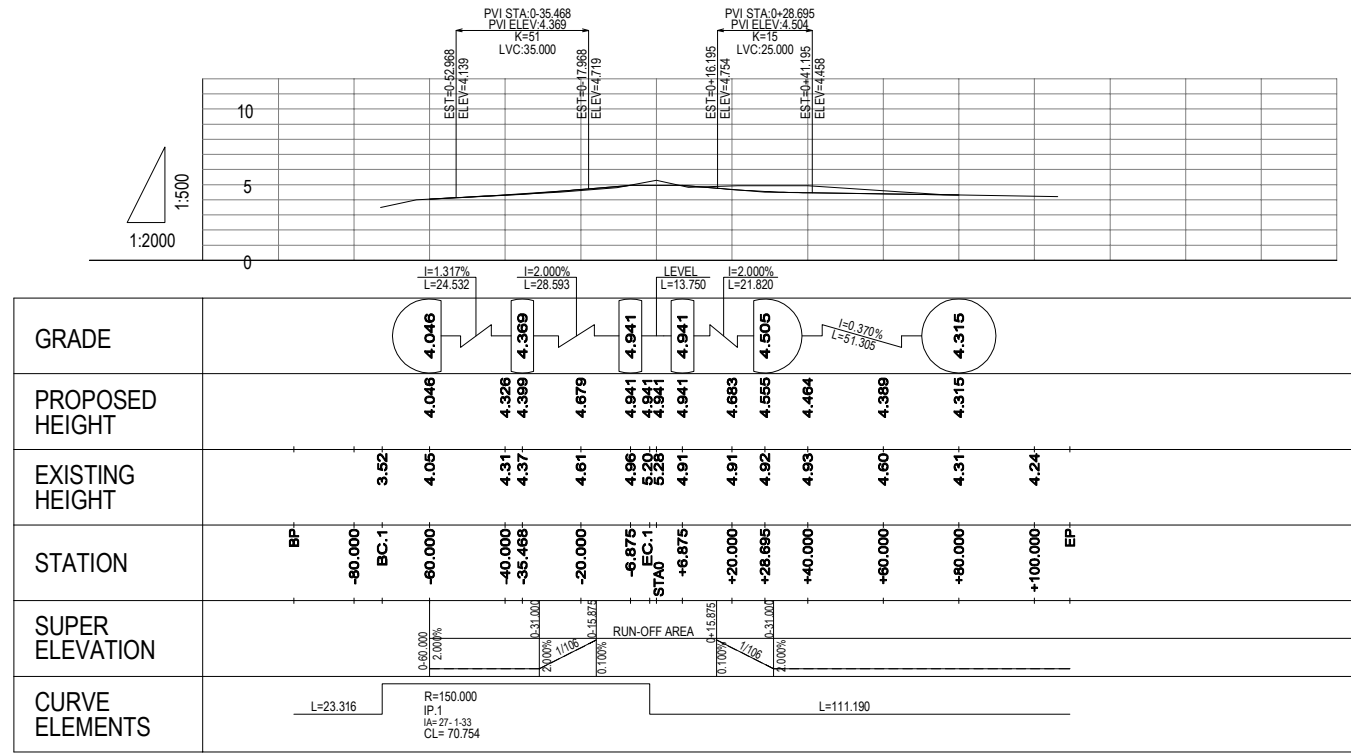
SHUKHINTHAR MAYO PAT ROAD	STA	NAWARAT St	EASTING	NORTHING	ELEMENT	DIRECTION	BR	P	ER	L
BP	0+286.8224		204092.659200	1859373.180867	S	L				292.345
BC.1	0+5.5228		204286.365525	1859592.141060	R	L	100.000			43.312
BC.2	0+48.8349		204307.258946	1859629.694478	R	L	600.000			135.124
EP	0+183.9593		204331.207129	1859762.389763	E					



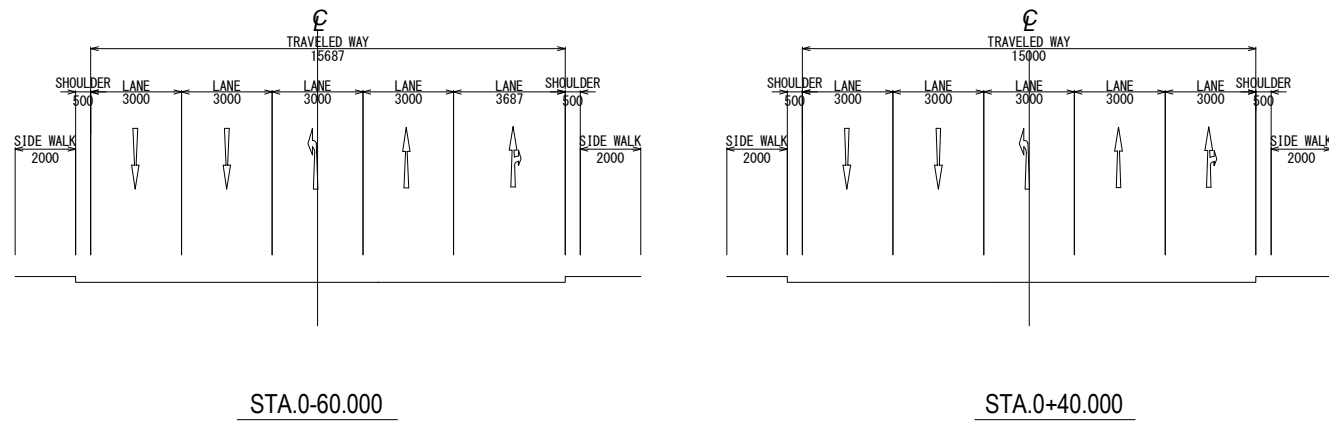
INTERSECTION PLAN
SCALE-1:1000

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME PREPARED BY K. TACHIBANA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE INTERSECTION PLAN, PROFILE AND SECTION (SHUKHINTHAR INTERSECTION STA.2+830)	PACKAGE 3 DWG No. P3-RD-2000
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INTERSECTION PLAN, PROFILE AND SECTION (YADANAR INTERSECTION STA.3+160)

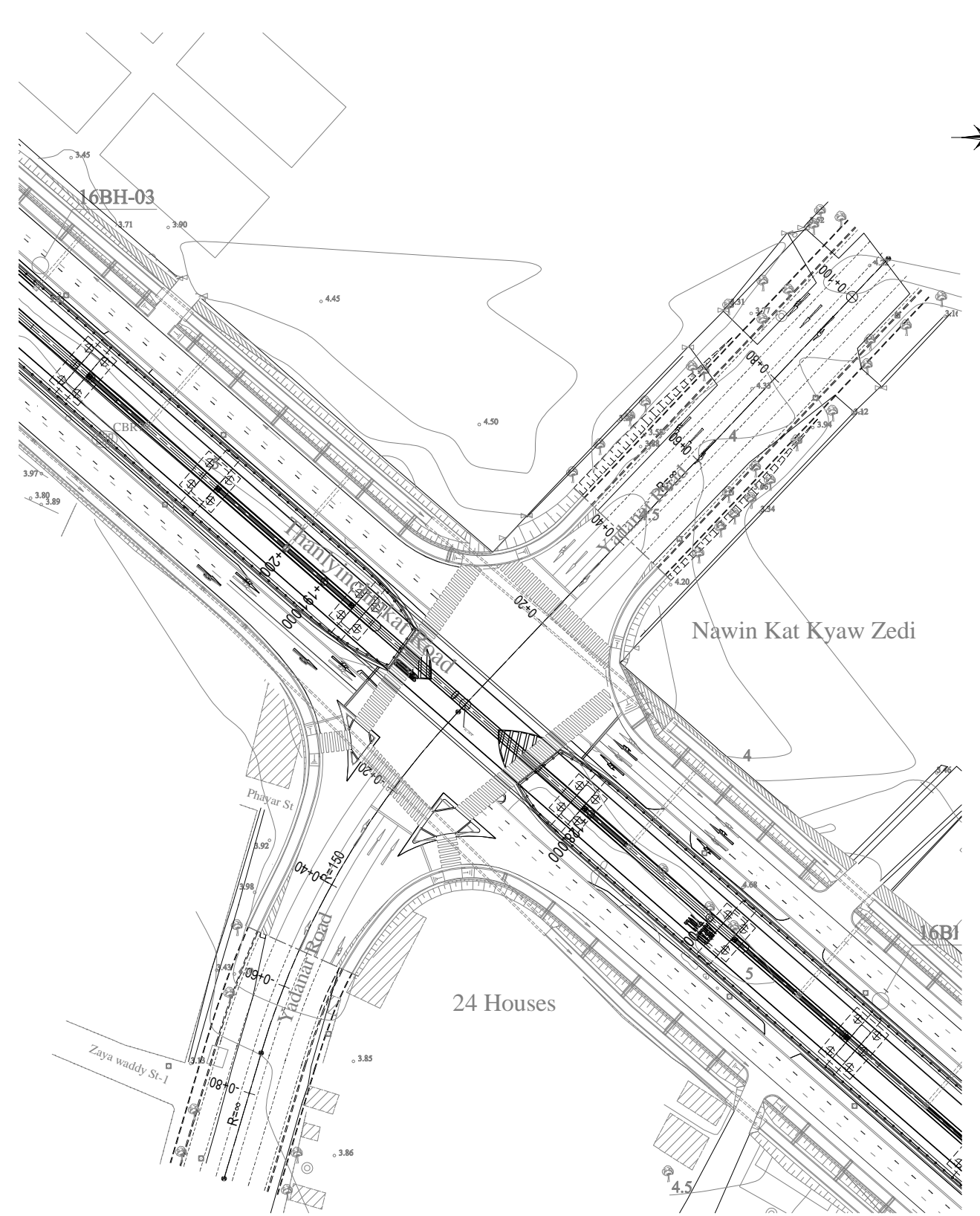


PROFILE OF SUBROAD
SCALEH-1:2000,V-1:500



SECTION OF SUBROAD
SCALEH-1:250

YADANAR ROAD									
	STA	EASTING	NORTHING	ELEMENT	DIRECTION	BR	P	ER	L
BP	0-95.8649	204021.251900	1859748.460679	S	L				23.316
BC.1	0-72.5487	204027.875452	1859770.816336	R	R	150.000			70.754
EC.1	0-1.7949	204062.942775	1859831.514307	S	L				111.190
EP	0+109.3947	204139.522025	1859912.129132	E					

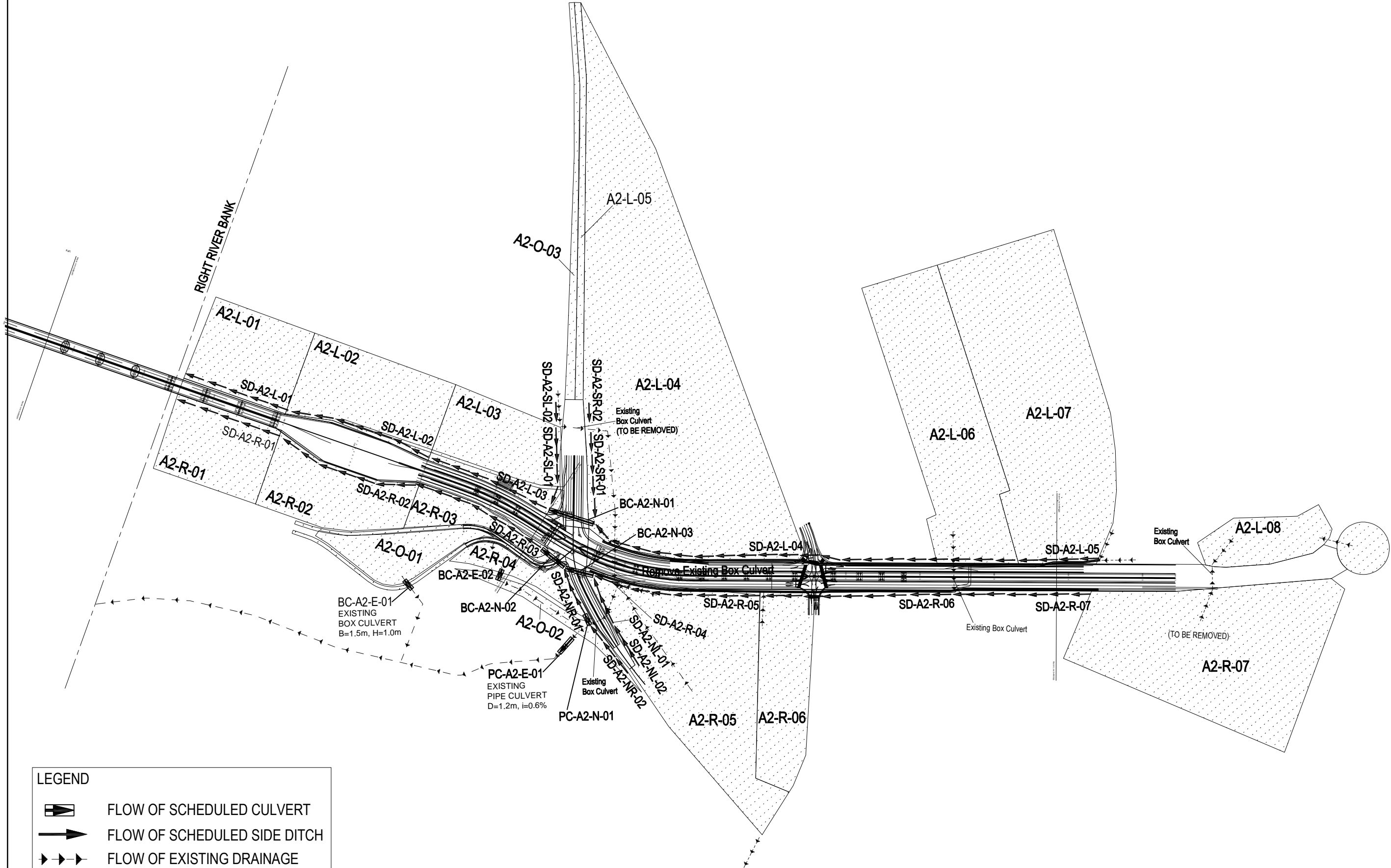


INTERSECTION PLAN
SCALEH-1:1000

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	<table border="1" style="width: 100%;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY</td> <td>K. TACHIBANA</td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>6 Oct.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY	K. TACHIBANA	29 Sep.2017	CHECKED BY	T. HAYAKAWA	3 Oct.2017	APPROVED BY	Y. SANO	6 Oct.2017	DRAWING TITLE INTERSECTION PLAN,PROFILE AND SECTION (YADANAR INTERSECTION STA.3+160)	PACKAGE 3 DWG No. P3-RD-2010
NAME	SIGNATURE	DATE																
PREPARED BY	K. TACHIBANA	29 Sep.2017																
CHECKED BY	T. HAYAKAWA	3 Oct.2017																
APPROVED BY	Y. SANO	6 Oct.2017																

DRAINAGE SYSTEM PLAN AND OUTLETS (RIGHT RIVER BANK)

S= 1:5000

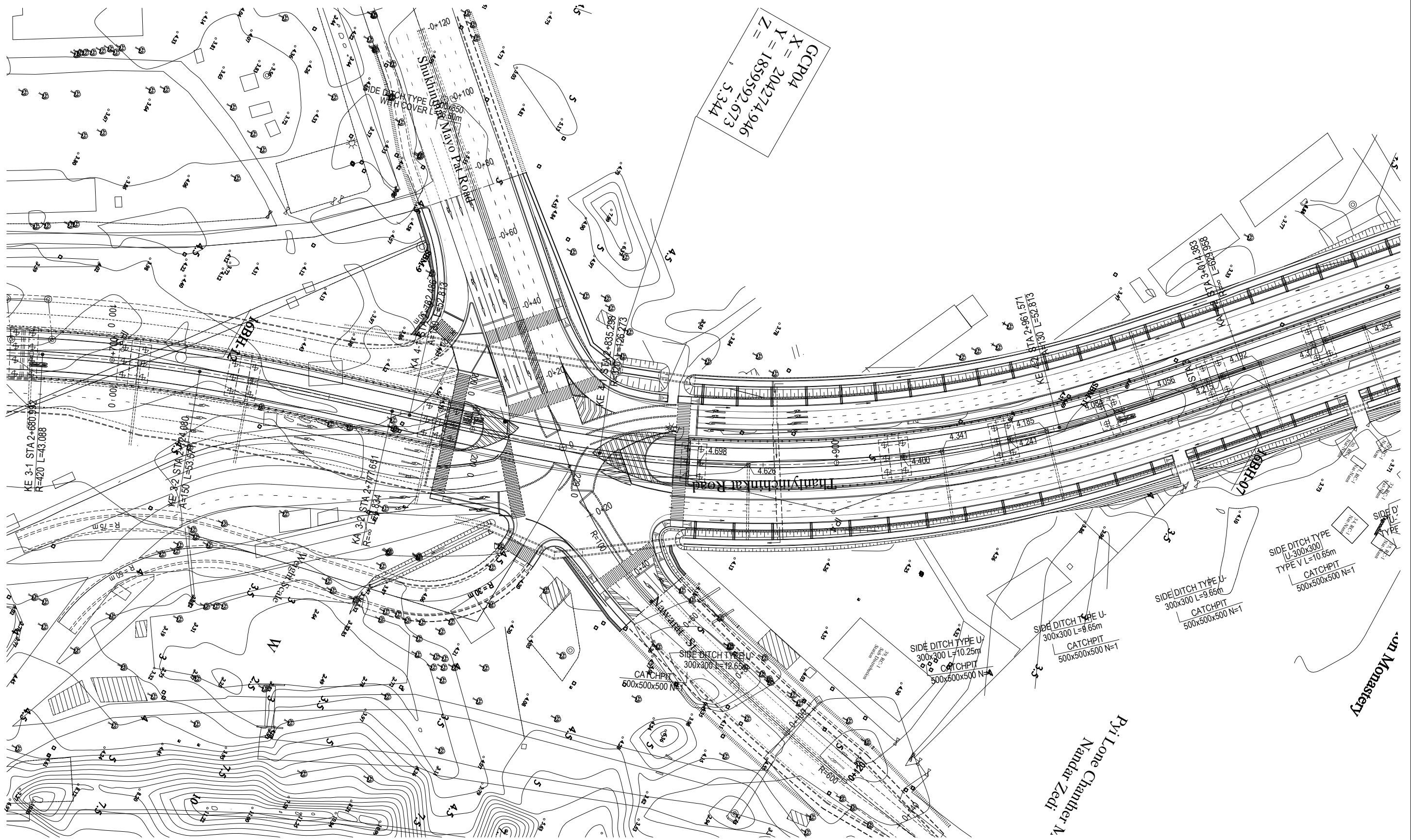


LEGEND

- FLOW OF SCHEDULED CULVERT
- FLOW OF SCHEDULED SIDE DITCH
- FLOW OF EXISTING DRAINAGE
- CATCHMENT AREA

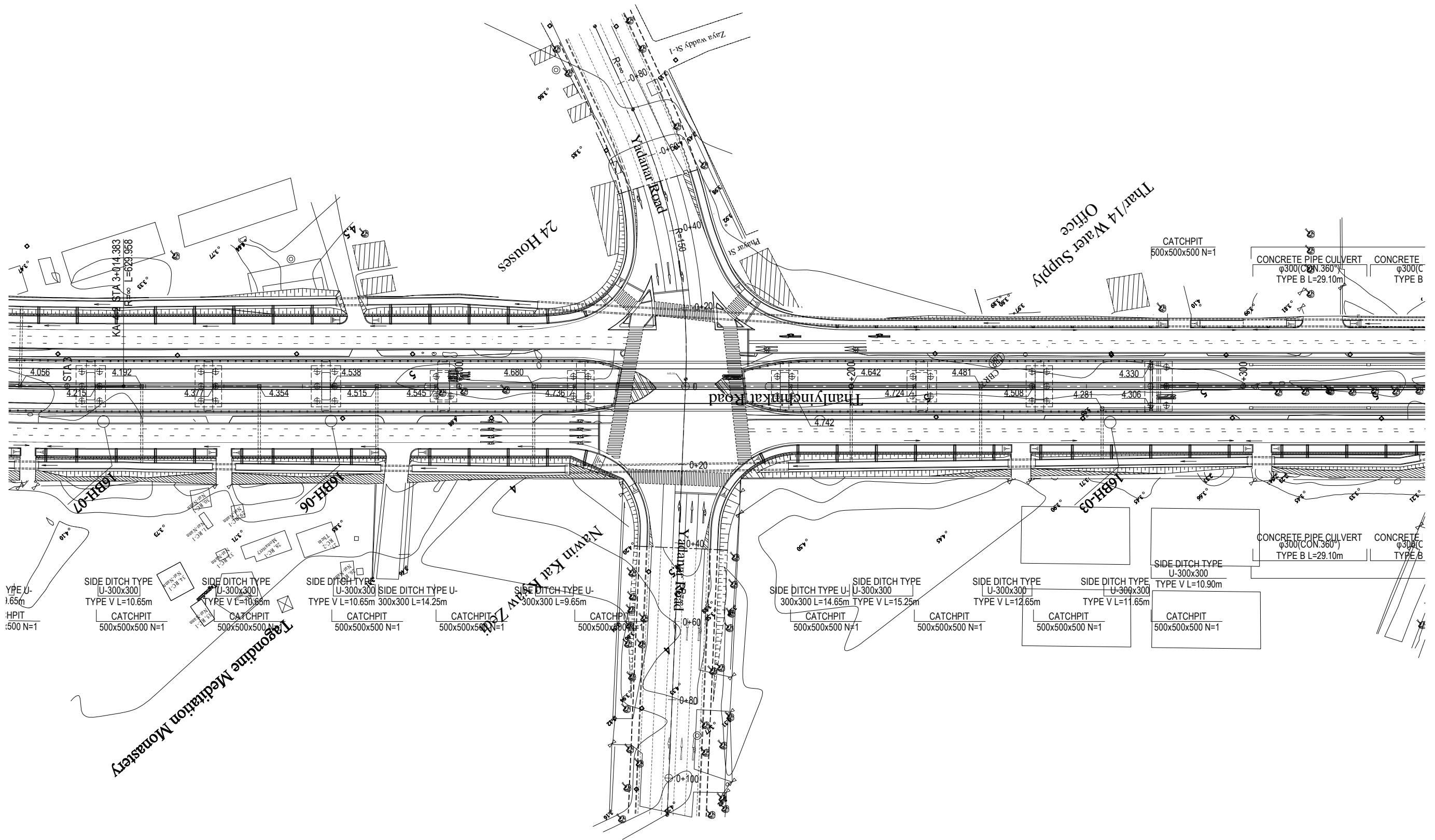
<p>PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT</p>	<p>FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE</p>	<p>JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">NAME</td> <td style="width: 20%;">SIGNATURE</td> <td style="width: 20%;">DATE</td> </tr> <tr> <td>PREPARED BY K. TACHIBANA</td> <td></td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>6 Oct.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY K. TACHIBANA		29 Sep.2017	CHECKED BY T. HAYAKAWA		3 Oct.2017	APPROVED BY Y. SANO		6 Oct.2017	<p style="text-align: center;">DRAWING TITLE</p> <p style="text-align: center;">DRAINAGE SYSTEM PLANS (RIGHT RIVER BANK) S= 1:5000</p>	<p>PACKAGE</p> <p style="text-align: center;">3</p> <p>DWG No.</p> <p style="text-align: center;">P3-RD-3000</p>
NAME	SIGNATURE	DATE																
PREPARED BY K. TACHIBANA		29 Sep.2017																
CHECKED BY T. HAYAKAWA		3 Oct.2017																
APPROVED BY Y. SANO		6 Oct.2017																

DRAINAGE SYSTEM PLAN(1) H= 1:1000



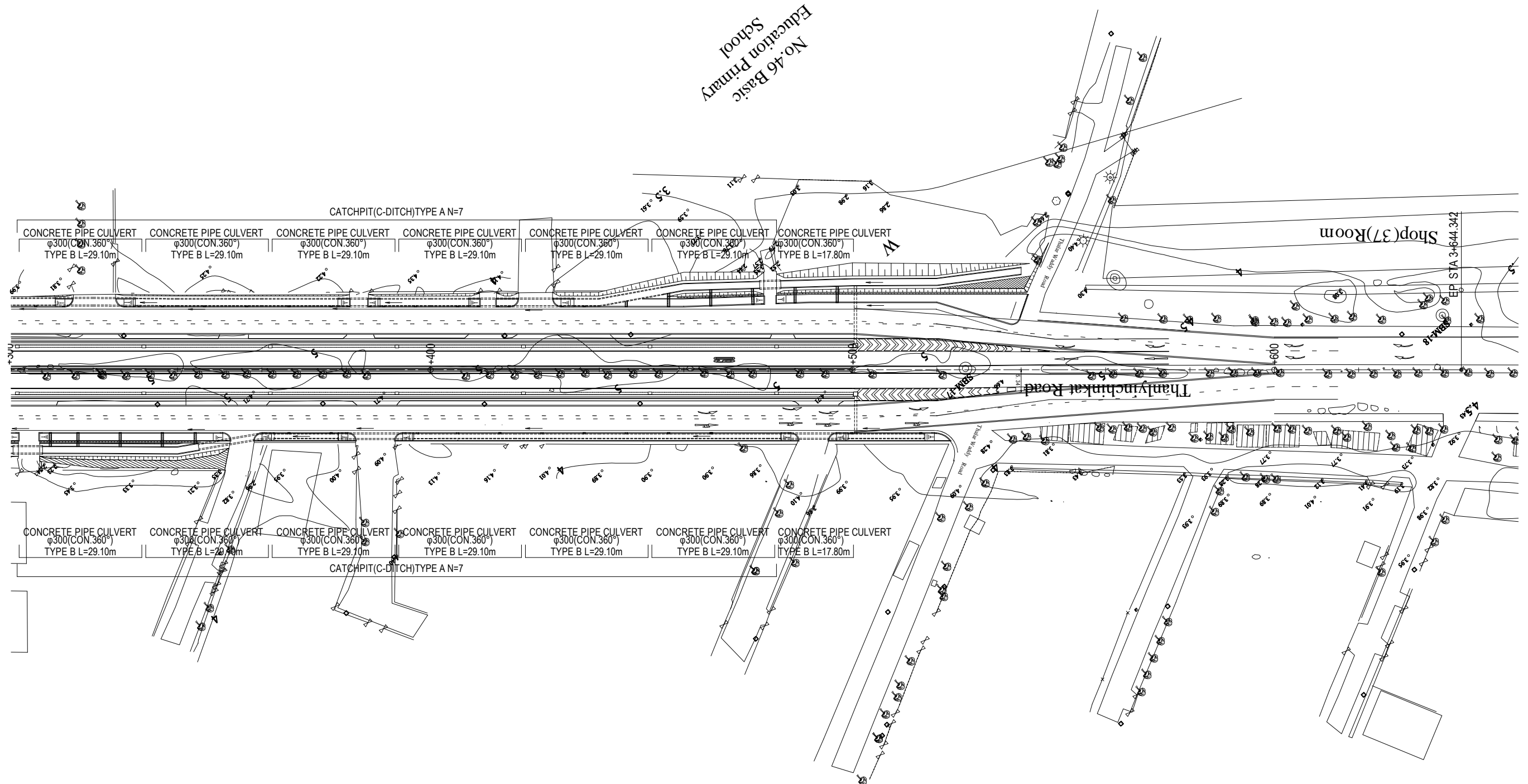
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DRAINAGE SYSTEM PLAN(1) S=1:1000	PACKAGE 3 DWG No. P3-RD-3010	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017

DRAINAGE SYSTEM PLAN(2) H= 1:1000



<p>PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT</p>	<p>FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE</p>	<p>JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY K. TACHIBANA</td> <td></td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>6 Oct.2017</td> </tr> </tbody> </table>	NAME	SIGNATURE	DATE	PREPARED BY K. TACHIBANA		29 Sep.2017	CHECKED BY T. HAYAKAWA		3 Oct.2017	APPROVED BY Y. SANO		6 Oct.2017	<p>DRAWING TITLE DRAINAGE SYSTEM PLAN(2) S=1:1000</p>	<p>PACKAGE 3 DWG No. P3-RD-3020</p>
NAME	SIGNATURE	DATE																
PREPARED BY K. TACHIBANA		29 Sep.2017																
CHECKED BY T. HAYAKAWA		3 Oct.2017																
APPROVED BY Y. SANO		6 Oct.2017																

DRAINAGE SYSTEM PLAN(3) H= 1:1000

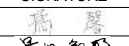
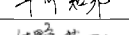
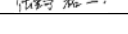


PROJECT NAME
 DETAILED DESIGN ON
 BAGO RIVER BRIDGE
 CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
 COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
 MINISTRY OF CONSTRUCTION
 DEPARTMENT OF BRIDGE

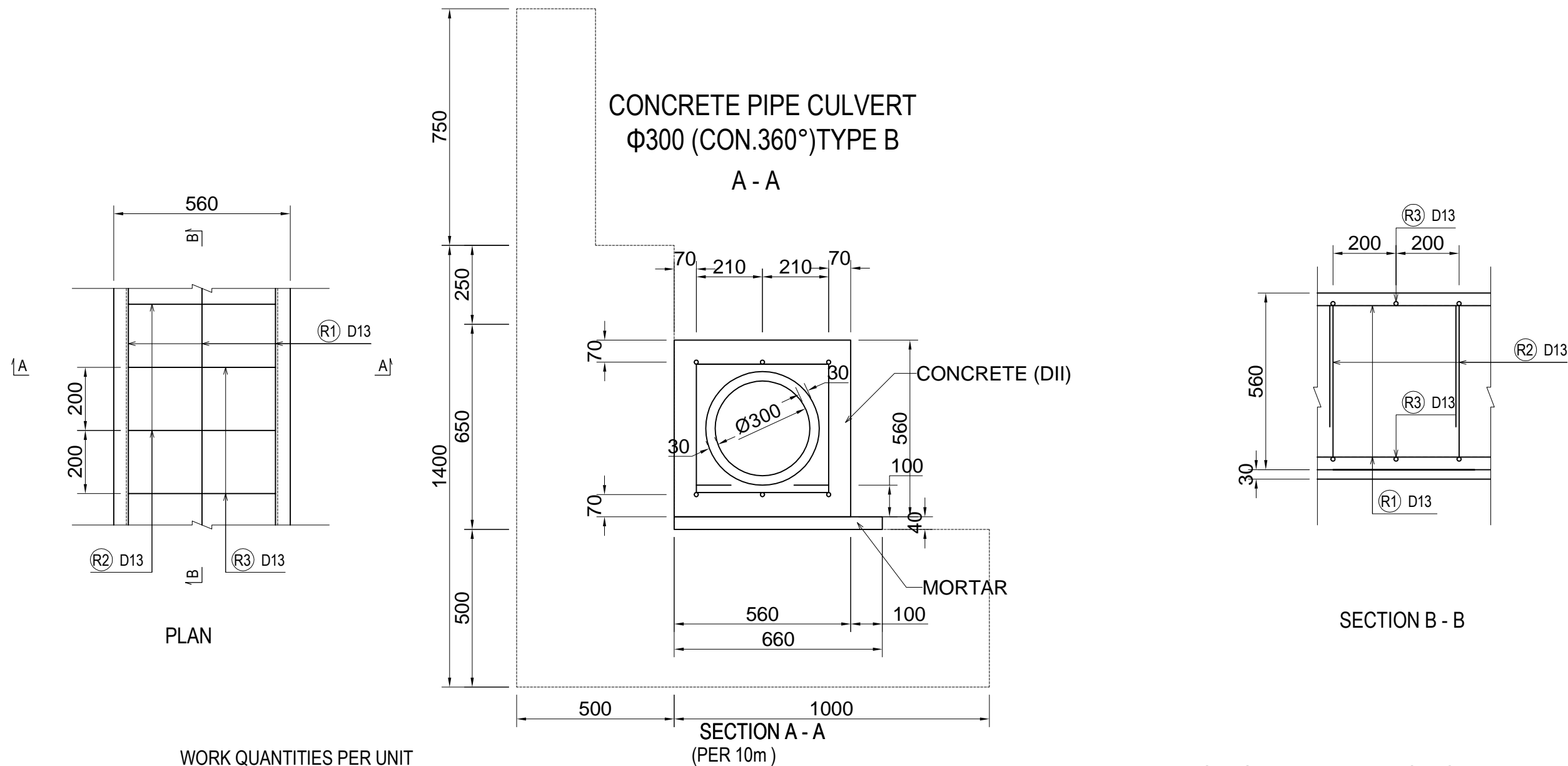
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO.,LTD.
 NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DRAINAGE SYSTEM PLAN(3)
 S=1:1000

PACKAGE
 3
 DWG No.
 P3-RD-3030

DETAIL OF CONCRETE PIPE CULVERT $\Phi 300$ (CON.360°) TYPE B S= 1:15



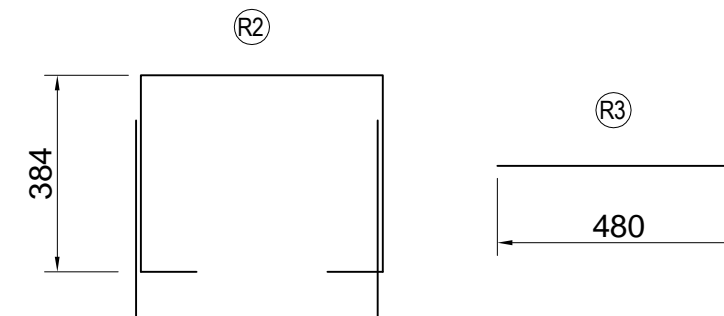
WORK QUANTITIES PER UNIT (PER 10m)

ITEM	UNIT	QUANTITY	REMARKS
R.C.PIPE $\Phi 300$	m	10.000	JIS A 5303 CLASS 1
CONCRETE (DII)	m ³	2.118	28 days = 240 kg/cm ²
MORTAR	m ²	0.264	
FORM	m ²	11.200	

WORK QUANTITIES PER UNIT FOR REINFORCEMENT BAR (PER 1.0m)

Dia	Nos	Length (mm/nos)	Unit Weight (kg/m)	Weight (kg)	Remarks
D13	6	1,000	0.995	5.970	(R1) / SD345
D13	5	420	0.995	2.090	(R2) / SD345
D13	5	1,310	0.995	6.517	(R3) / SD345
TOTAL				14.557	

DETAIL OF STEEL REINFORCEMENT

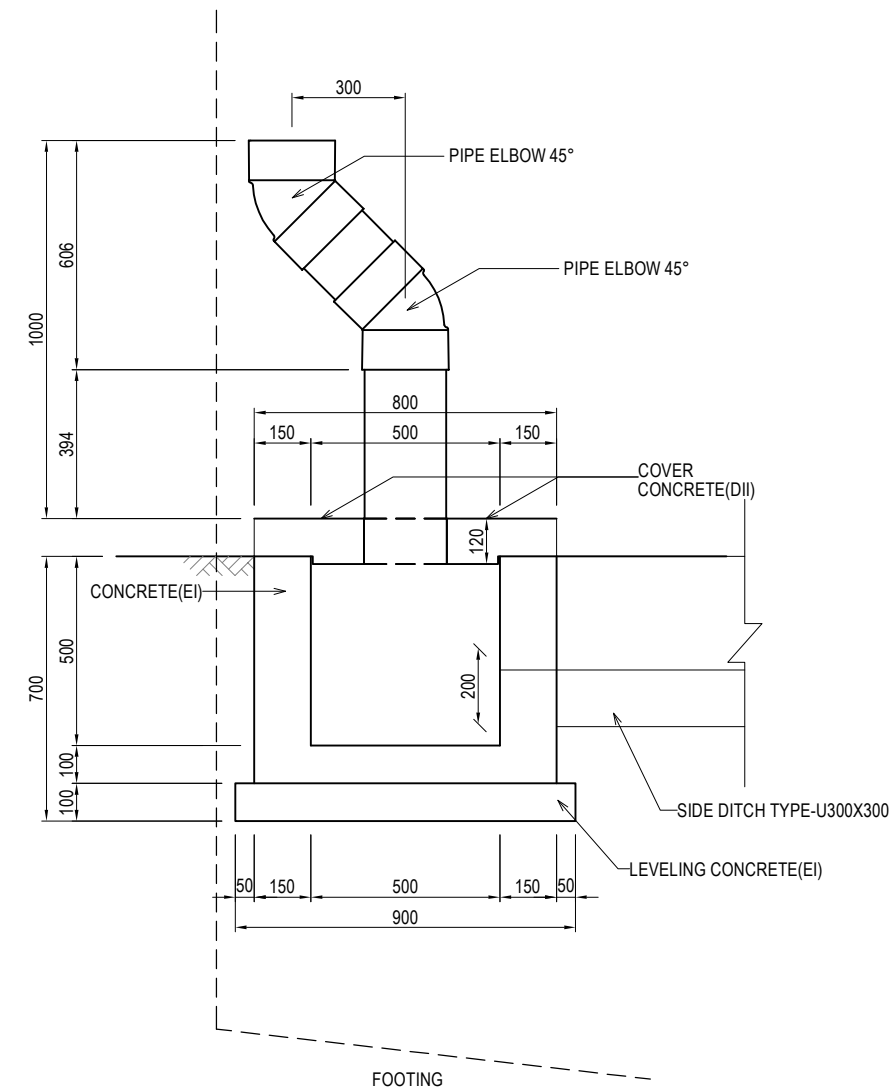
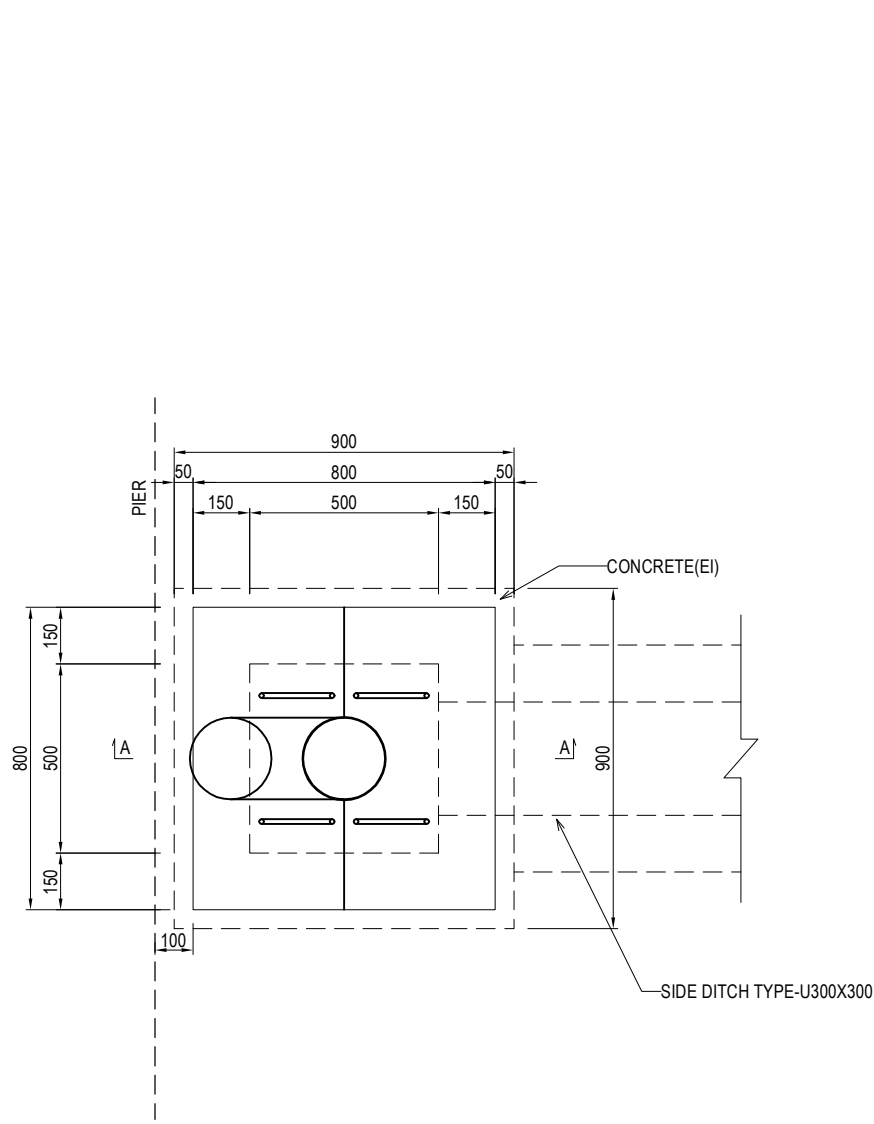


Note: Precast R.C. Pipe $\Phi 300$, Reinforced Spun and Centrifugal Reinforced Concrete Pipes shall be Selected.

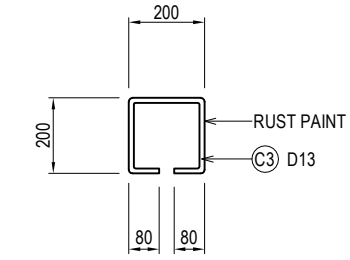
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME PREPARED BY K. TACHIBANA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE 	DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE DETAIL OF CONCRETE PIPE CULVERT $\Phi 300$ (CON.360°) TYPE B S=1:15	PACKAGE 3 DWG No. P3-RD-3040
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DETAIL OF CATCH PIT 500x500x500

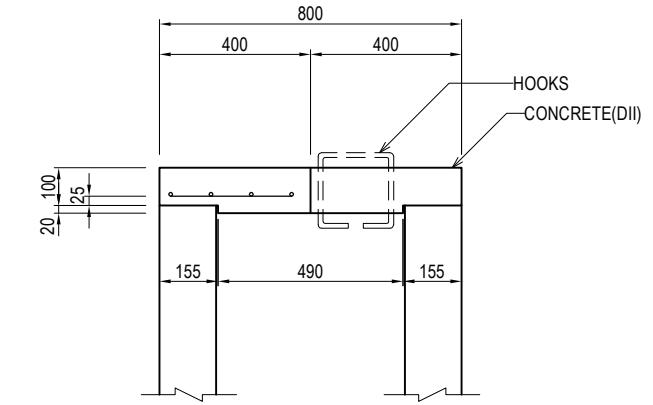
S=1:20



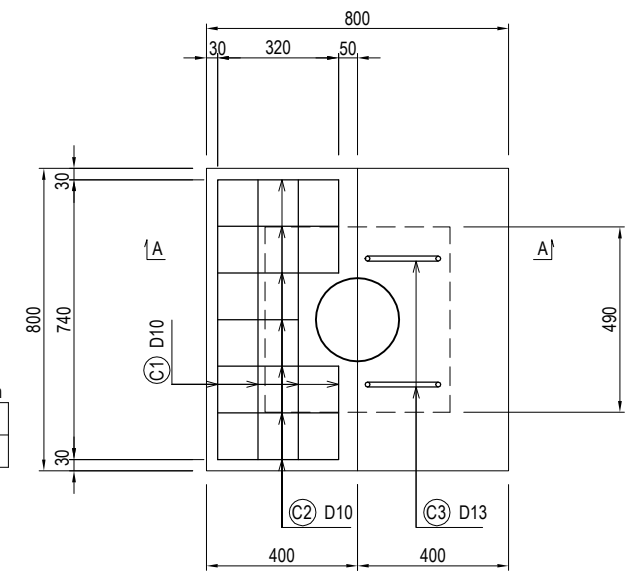
DETAIL OF HOOKS



DETAIL OF COVER SECTION A - A



PLAN



QUANTITY Per 10 each

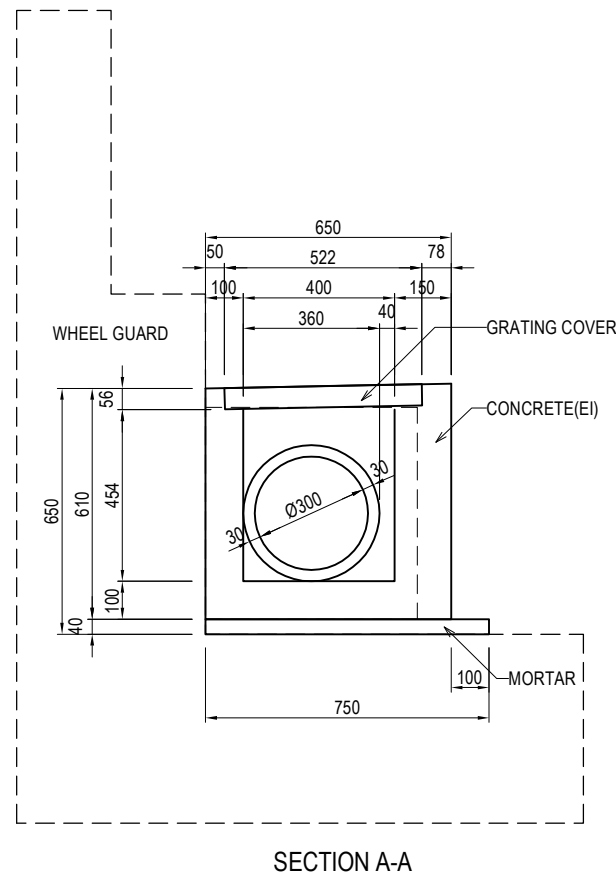
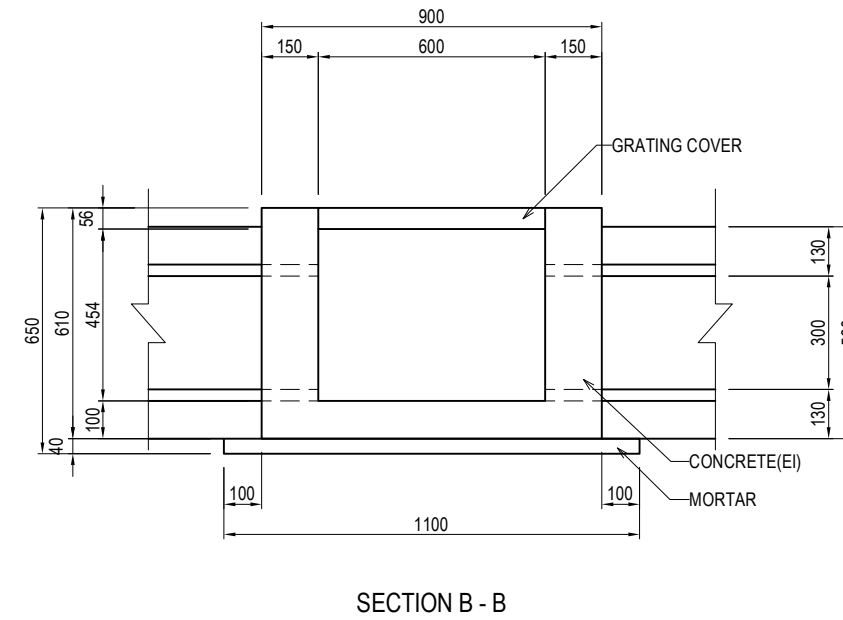
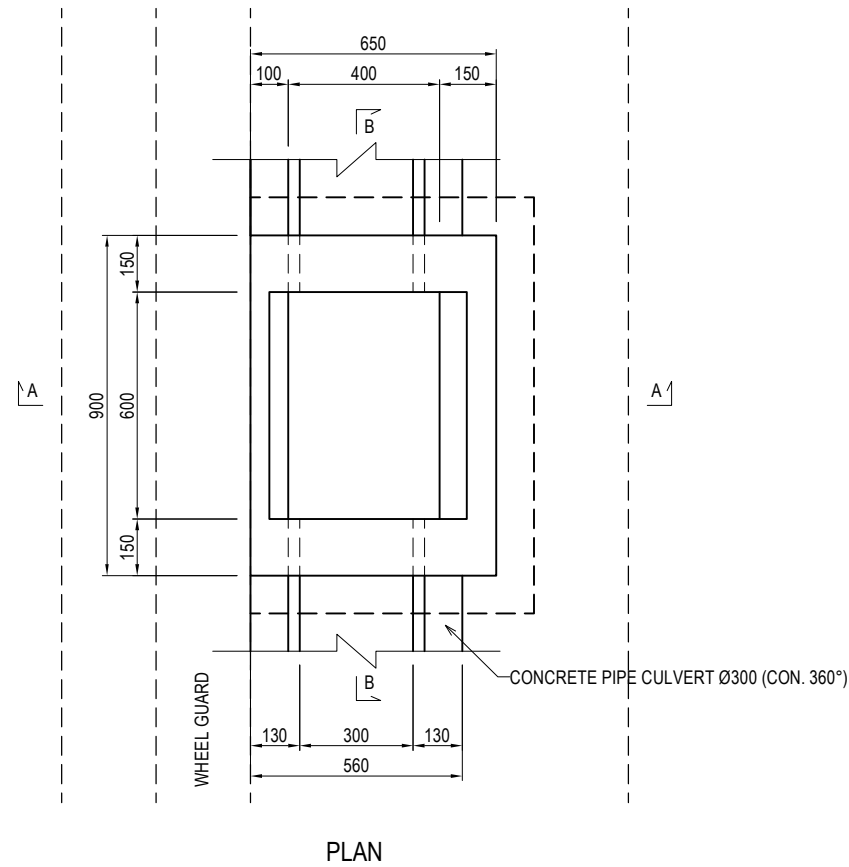
Title	Specification	Quantity
Body		
Concrete	EI	2.46 m3
Form		32.35 m2
Leveling Concrete	t=100	8.10 m2
Cover		
Concrete	DII	0.64 m3
Reinforcing bar	D10	54.32 kg
	D13	31.68 kg
Form		6.35 m2
Pipe	VPφ200	9.00 m
Pipe Elbow	45°	20 each

BAR LIST Per 10 each		
C1	C2	C3
4-D10-740	7-D10-320	2-φ13-760

- Note
1. Specification of Plain Concrete should be CLASS EI
 2. Specification of Reinforced Concrete should be CLASS DII
 3. Specification of Steel reinforcement bar should be SD345

DETAIL OF CATCH PIT (C-DITCH) TYPE A S=1:20

Note
1. Specification of Plain Concrete should be CLASS EI



QUANTITY Per 10 each

Title	Specification	Quantity
Body		
Concrete	EI	2.23 m3
Form		31.83 m2
Mortar	t=40	8.25 m2
Cover		
Grating Cover	520x600	10 each

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO. LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DETAIL OF CATCH PIT (C-DITCH) TYPE A
S=1:20

PACKAGE
3
DWG No.
P3-RD-3060

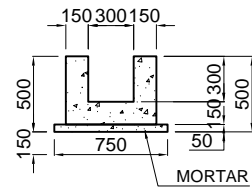
DETAIL OF SIDE DITCH (1)

S=1:50

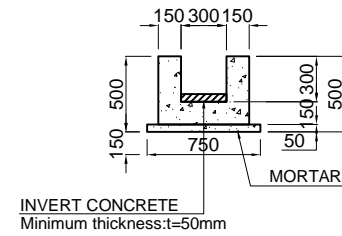
NOTES:

1. Concrete Class DII (240 kg/cm²)
2. Steel Reinforcement SD345
3. Pit of Steel Reinforcement is 200mm

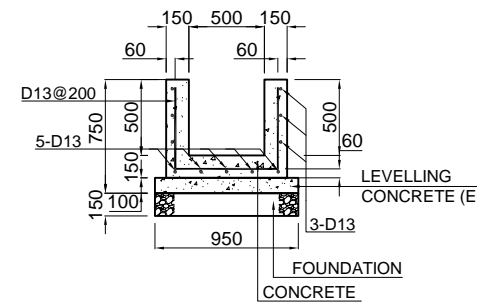
SIDE DITCH TYPE U-300×300



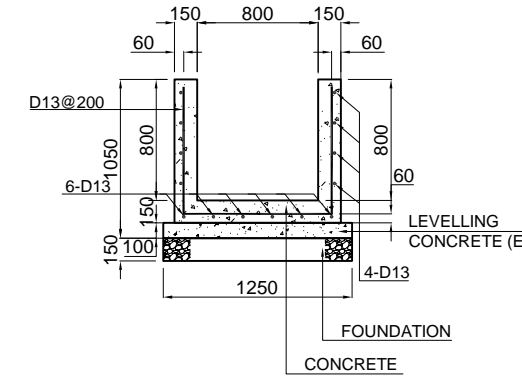
SIDE DITCH TYPE U-300×300 TYPE V



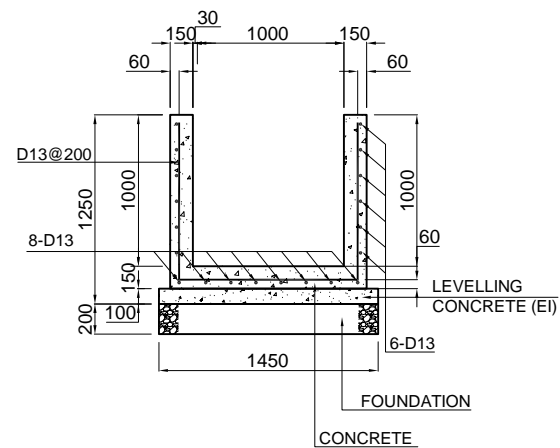
SIDE DITCH TYPE U-500×500



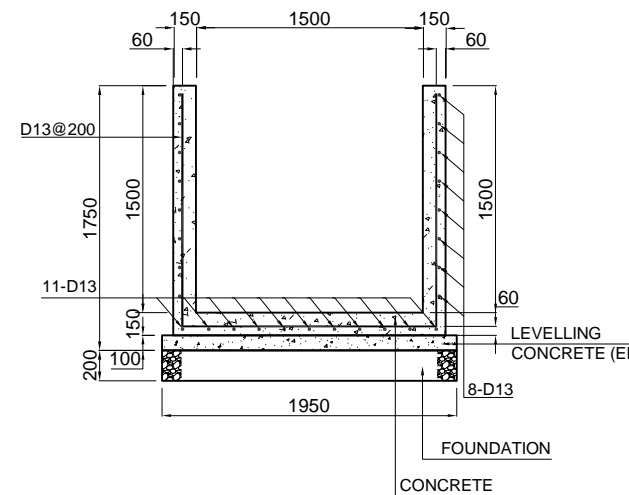
SIDE DITCH TYPE U-800×800



SIDE DITCH TYPE U-1000×1000

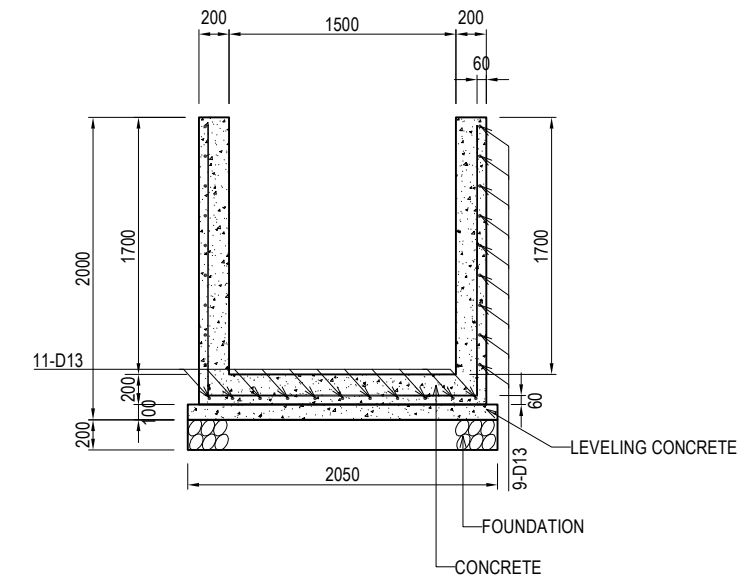


SIDE DITCH TYPE U-1500×1500



SIDE DITCH TYPE U-1500×1700

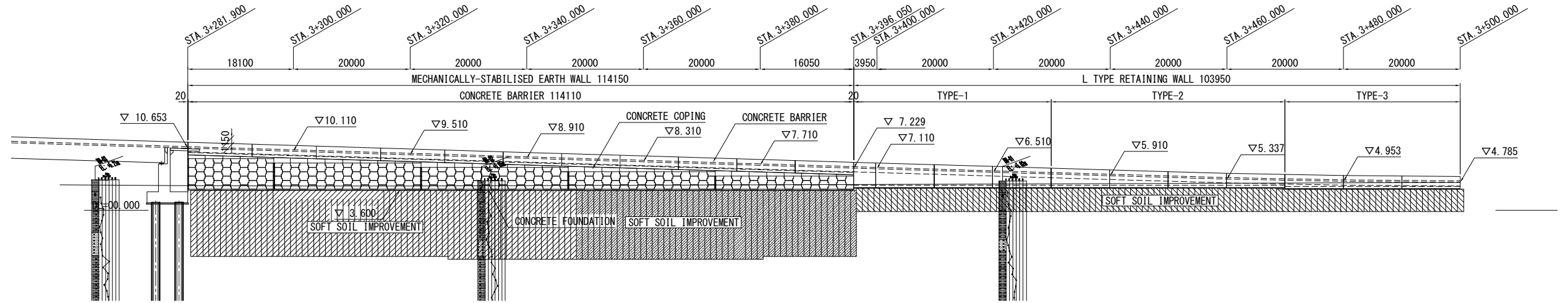
S=1:50



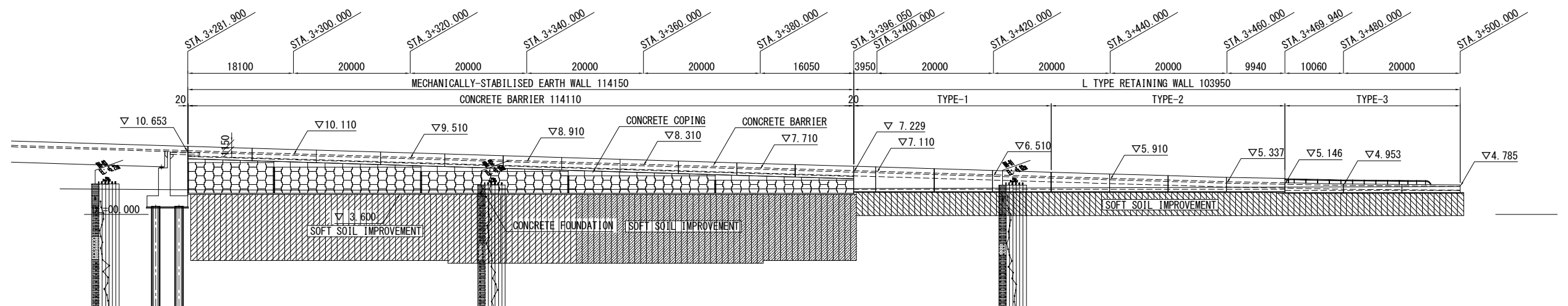
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA	[Signature]	29 Sep.2017	DETAIL OF SIDE DITCH (1) S=1:50	3
				T. HAYAKAWA	[Signature]	3 Oct.2017		DWG No.
				Y. SANO	[Signature]	6 Oct.2017		P3-RD-3070

GENERAL PLAN OF MECHANICALLY-STABILISED EARTH WALL(1)

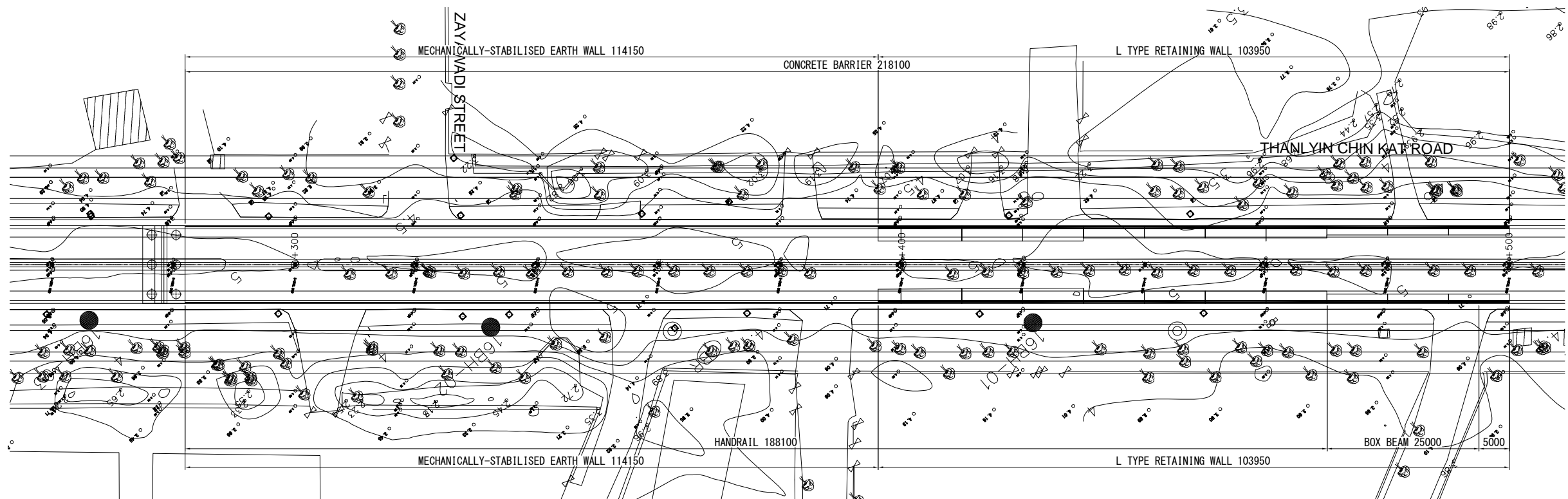
LEFT SIDE (DEVELOP FROM BACK SIDE) S=1:800



RIGHT SIDE S=1:800



PLAN S=1:800



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM

NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

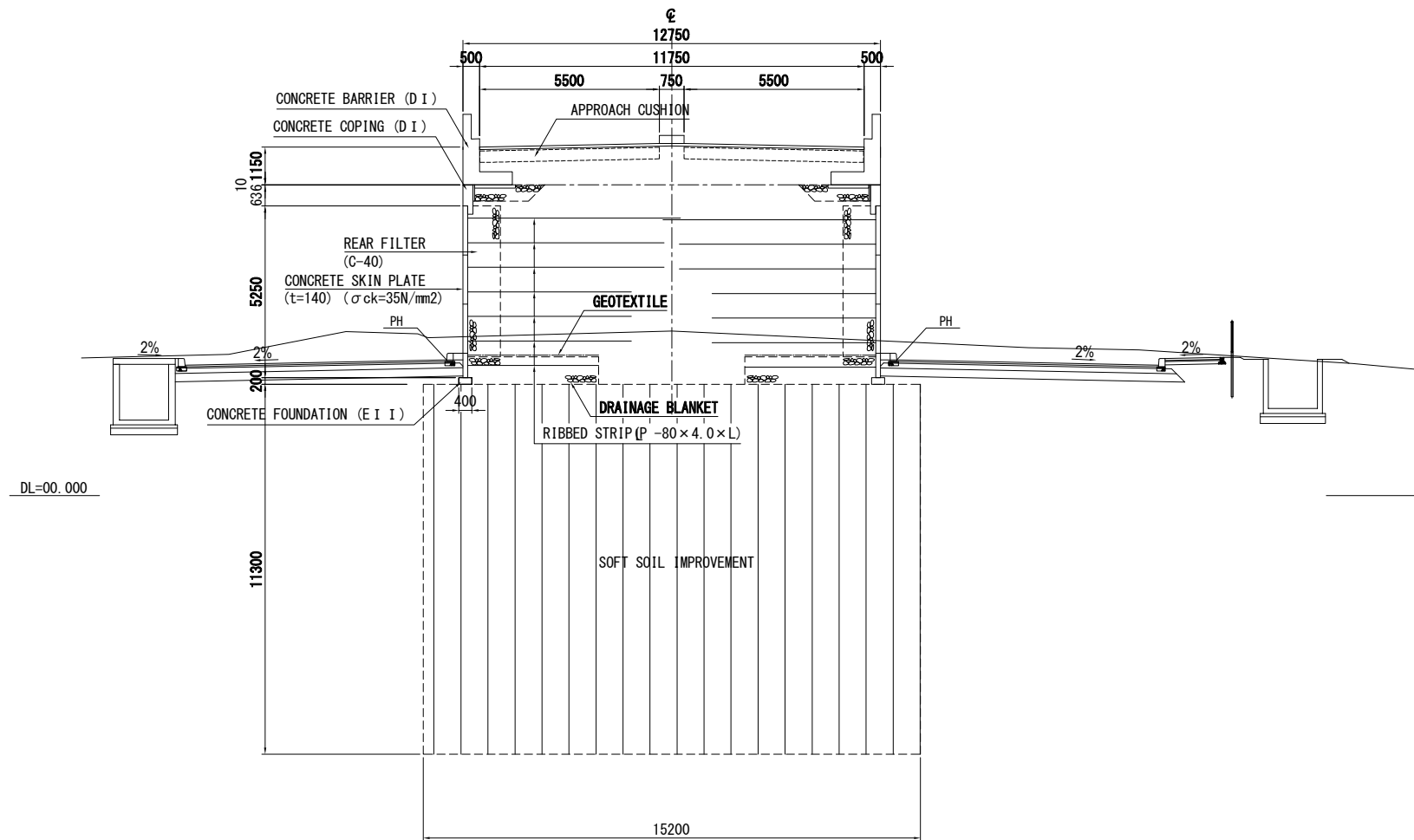
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
**GENERAL PLAN
OF MECHANICALLY-STABILISED EARTH WALL(1)**

PACKAGE
3
DWG No.
P3-RD-4000

GENERAL PLAN OF MECHANICALLY-STABILISED EARTH WALL(2)

TYPICAL CROSS SECTION S=1:200



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO., LTD.
 NIPPON ENGINEERING CONSULTANTS CO., LTD.

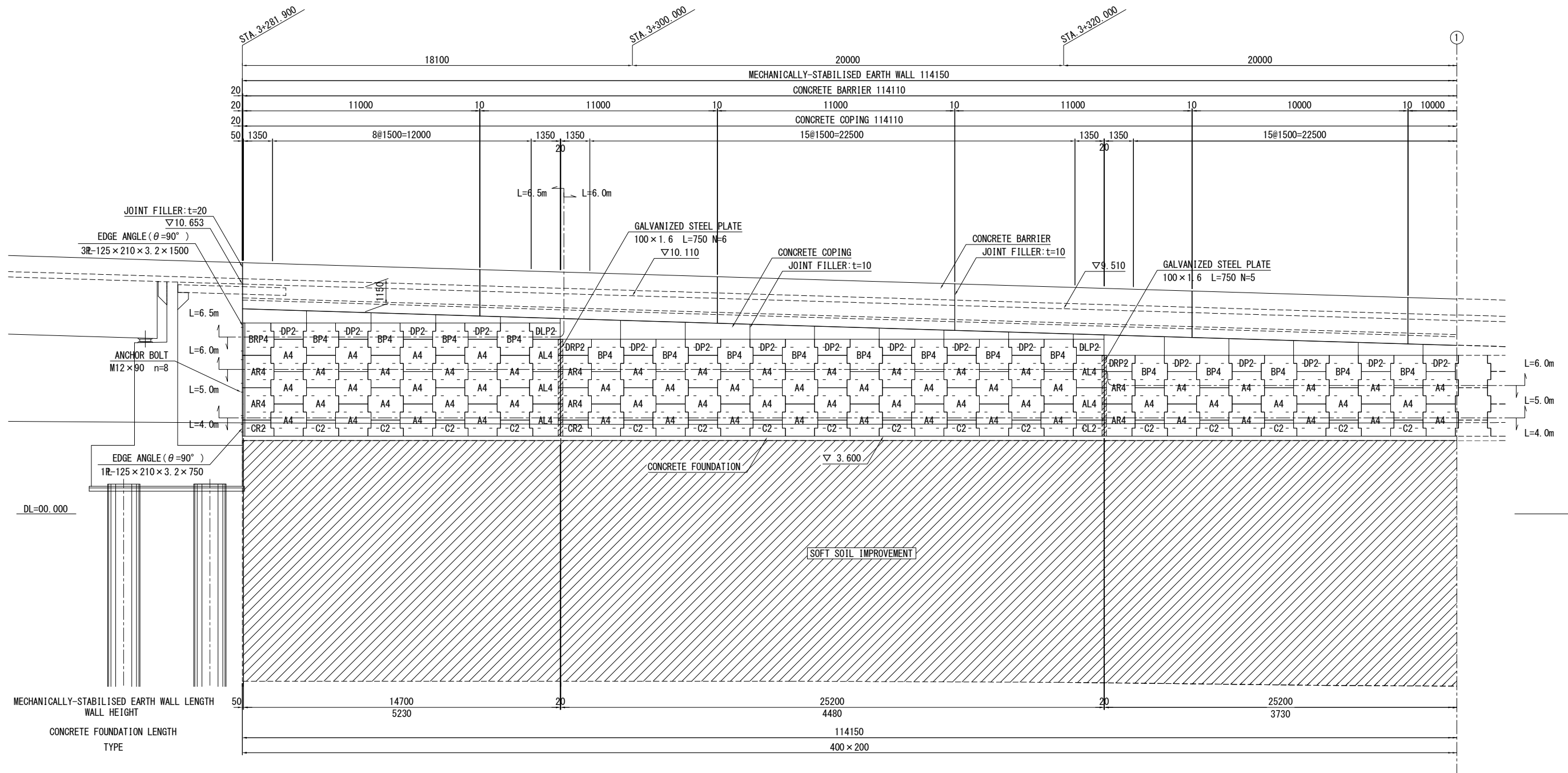
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
GENERAL PLAN
OF MECHANICALLY-STABILISED EARTH WALL(2)

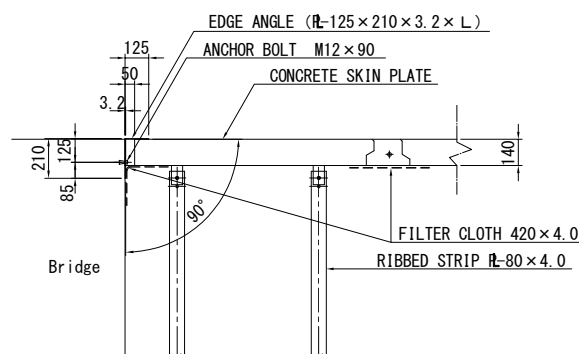
PACKAGE
3
DWG No.
P3-RD-4010

ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(1)

LEFT SIDE (DEVELOP FROM BACK SIDE) S=1:800



EDGE DETAIL DRAWING S=1:40



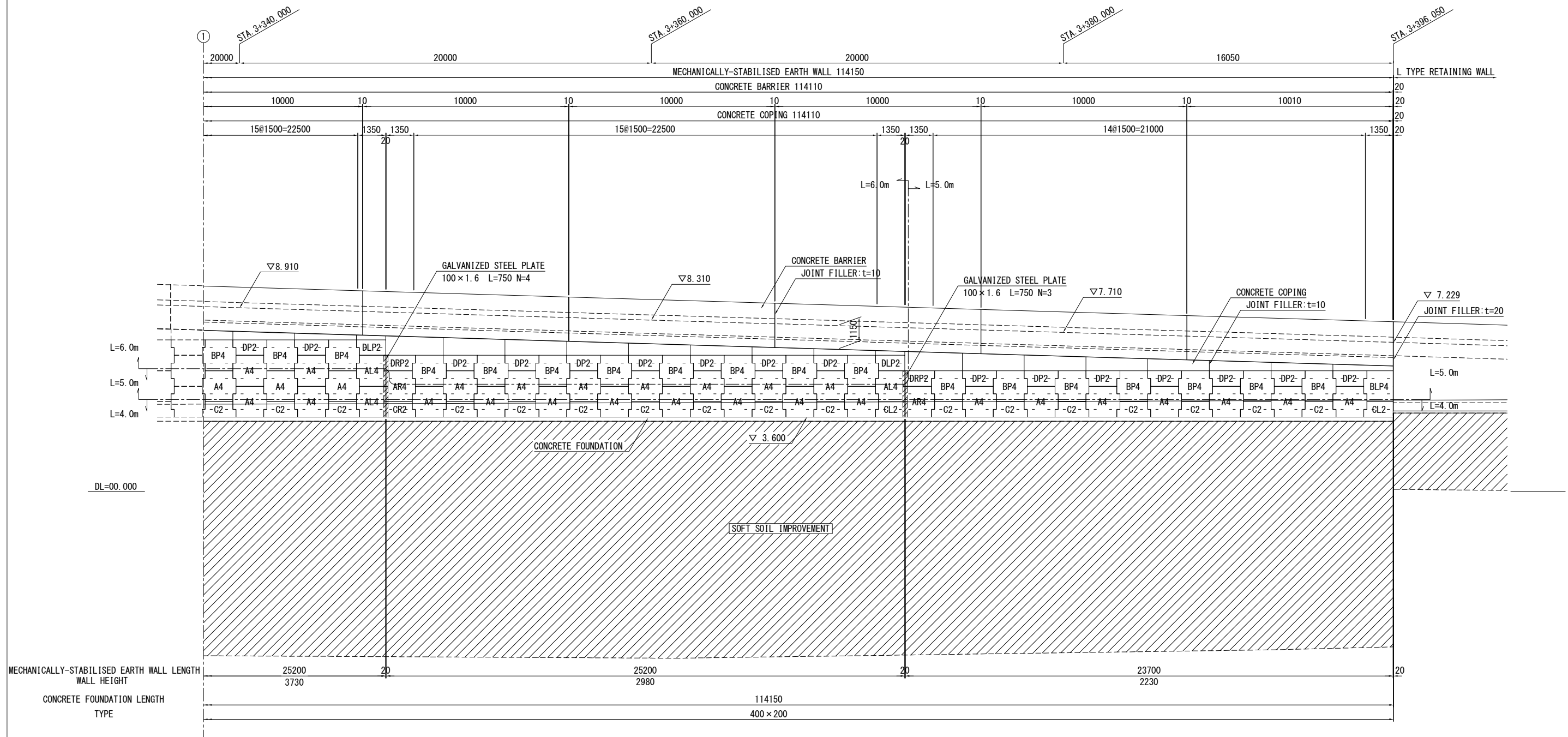
NOTE)

- 1) The mark "L" indicates the length of steel strip determined by the stability calculation.
- 2) Wall length indicates the length of wall surface.

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017
ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(1)							3	DWG No.	P3-RD-4020

ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(2)

LEFT SIDE (DEVELOP FROM BACK SIDE) S=1:800

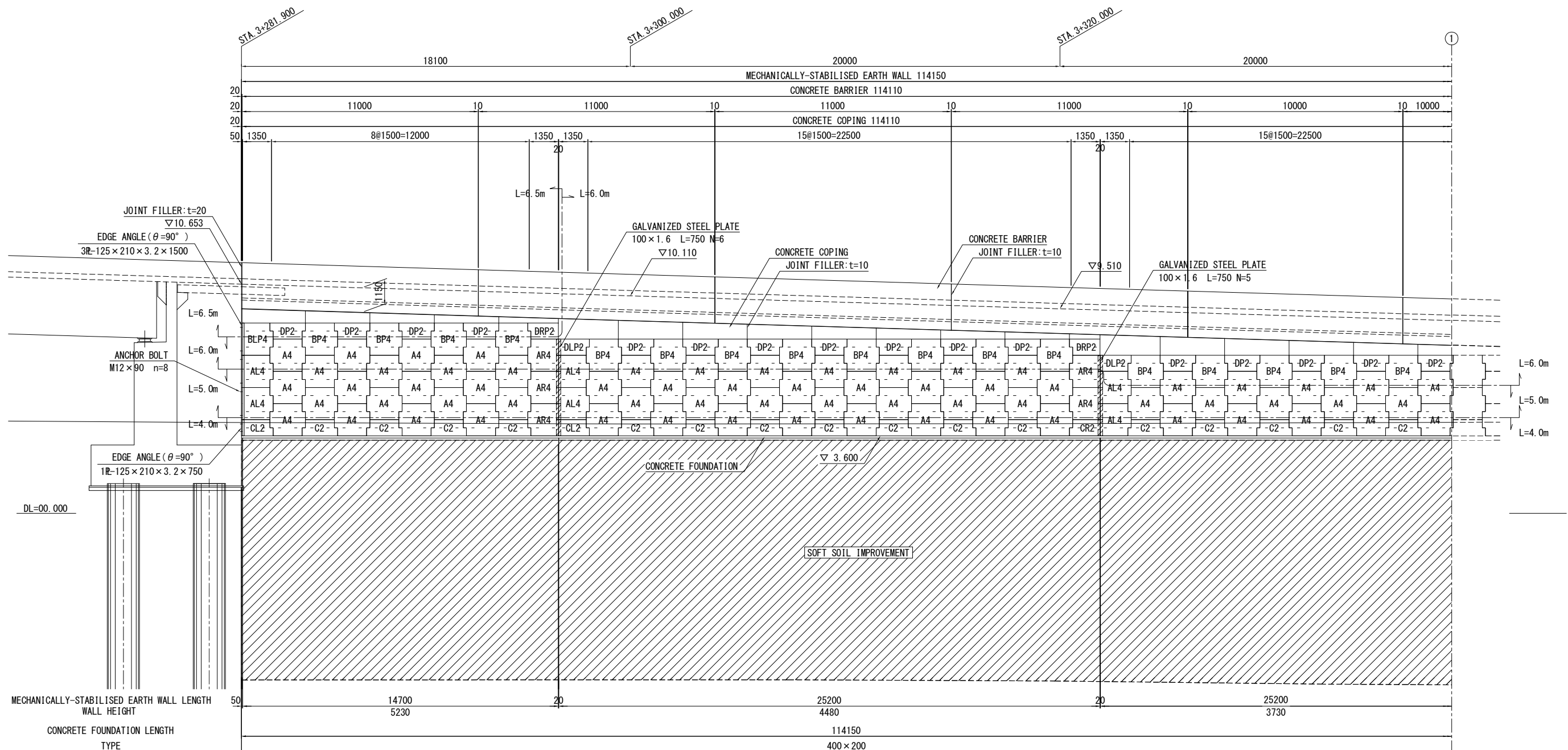


NOTE)
 1) The mark "L" indicates the length of steel strip determined by the stability calculation.
 2) Wall length indicates the length of wall surface.

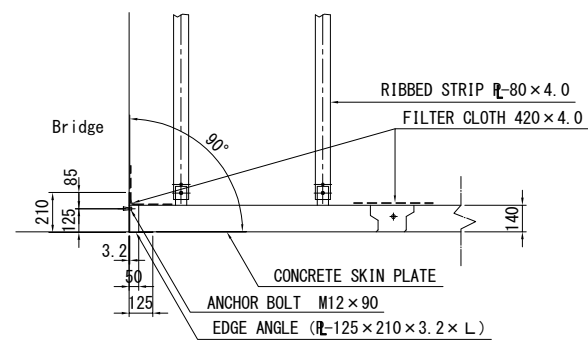
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(2)	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-4030

ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(3)

RIGHT SIDE S=1:800



EDGE DETAIL DRAWING S=1:40

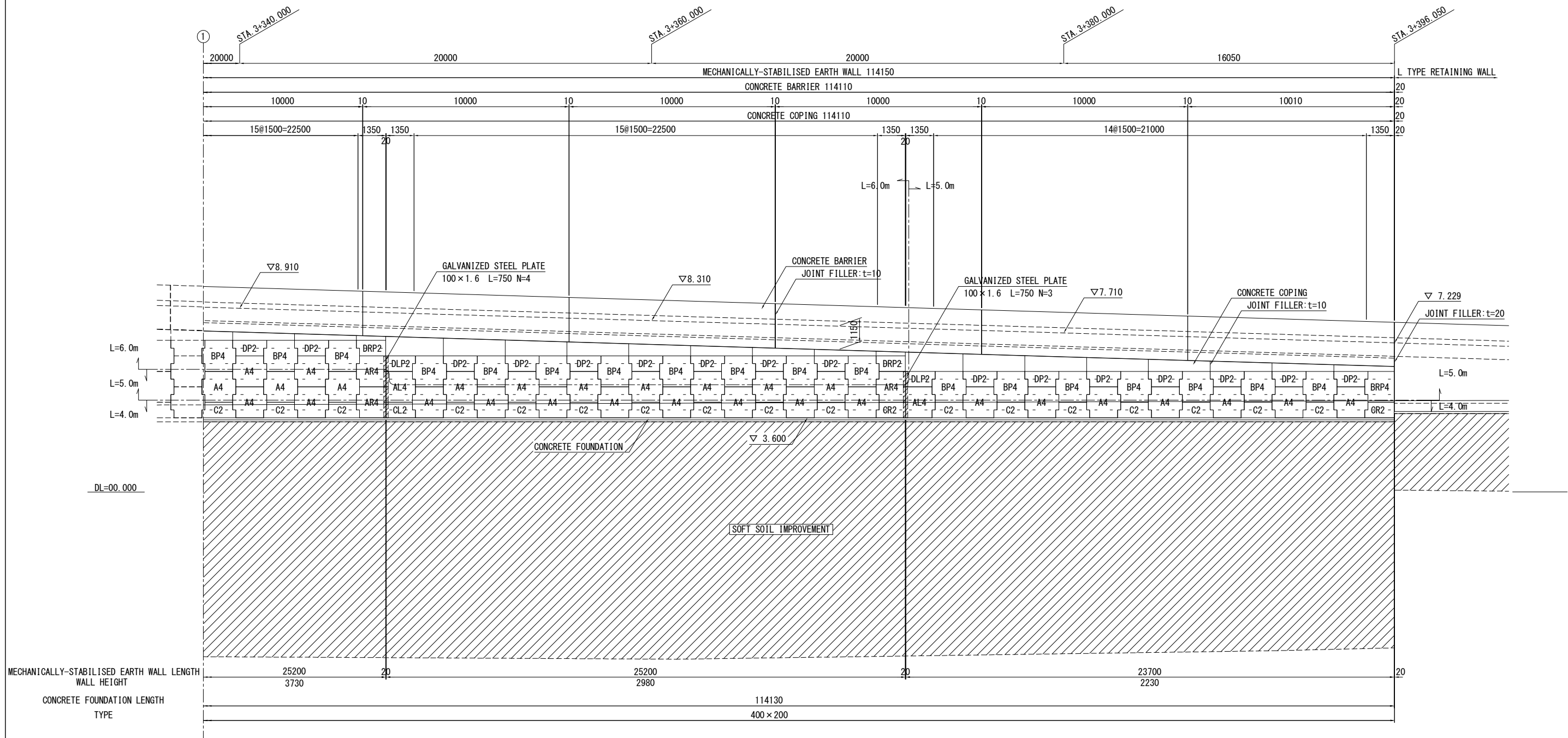


- NOTE)
- 1) The mark "L" indicates the length of steel strip determined by the stability calculation.
 - 2) Wall length indicates the length of wall surface.

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME PREPARED BY K. TACHIBANA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE 	DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(3)	PACKAGE 3 DWG No. P3-RD-4040
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ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(4)

RIGHT SIDE S=1:800



- NOTE)
- 1) The mark "L" indicates the length of steel strip determined by the stability calculation.
 - 2) Wall length indicates the length of wall surface.

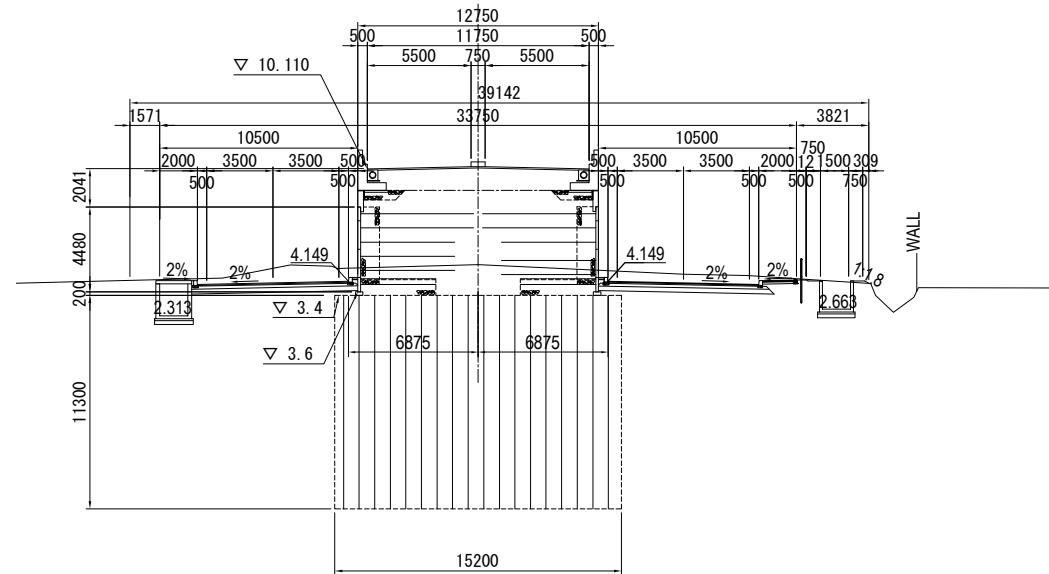
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017
							ARRANGEMENT OF CONCRETE SKIN PLATE OF MECHANICALLY-STABILISED EARTH WALL(4)	3 DWG No. P3-RD-4050	

CROSS SECTION(1) S=1:400

STA. 3+300

GH = 5.03
PH = 4.149

℄

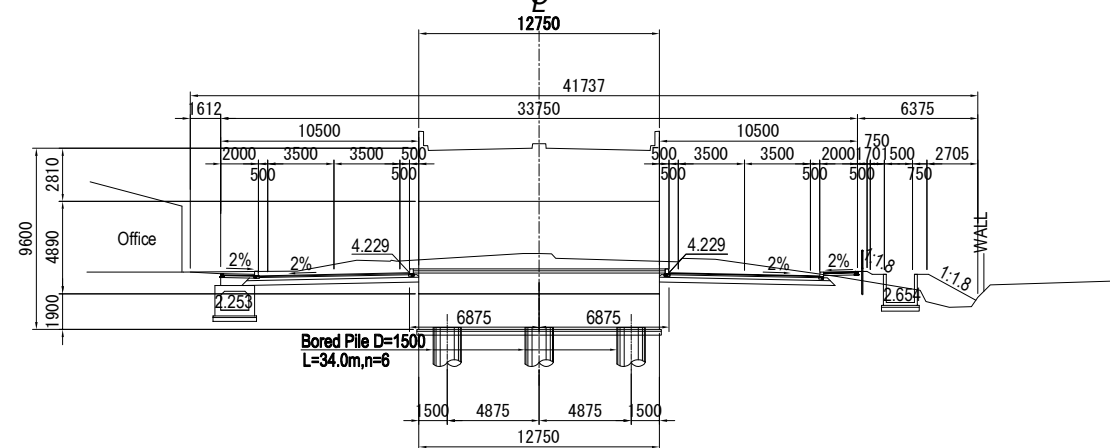


DL=3.00

STA. 3+280

GH = 5.25
PH = 4.229

℄



DL=3.00

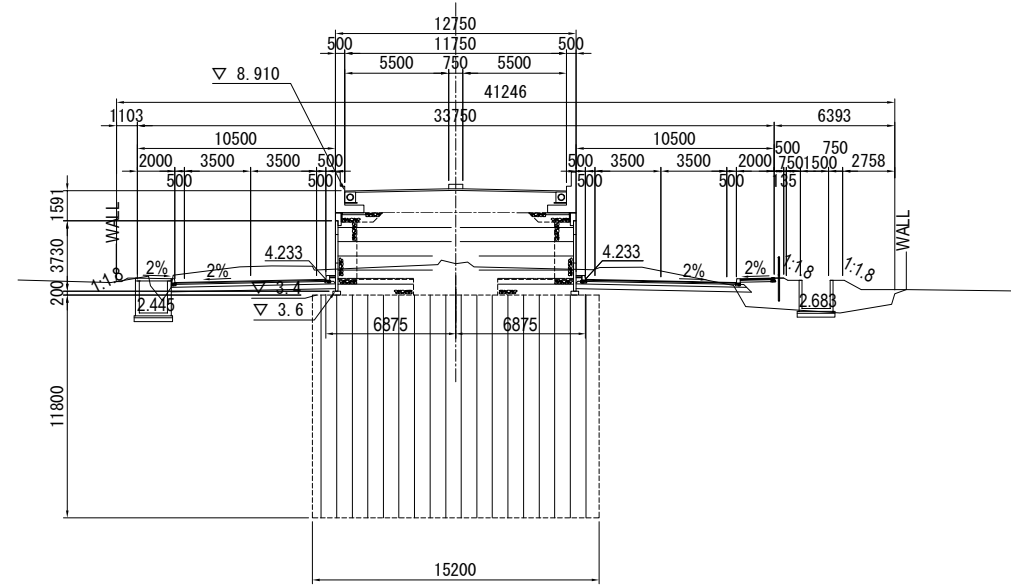
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(1)	PACKAGE 3 DWG No. P3-RD-4060	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017

CROSS SECTION(2) S=1:400

STA. 3+340

GH = 5.06
PH = 4.233

℄

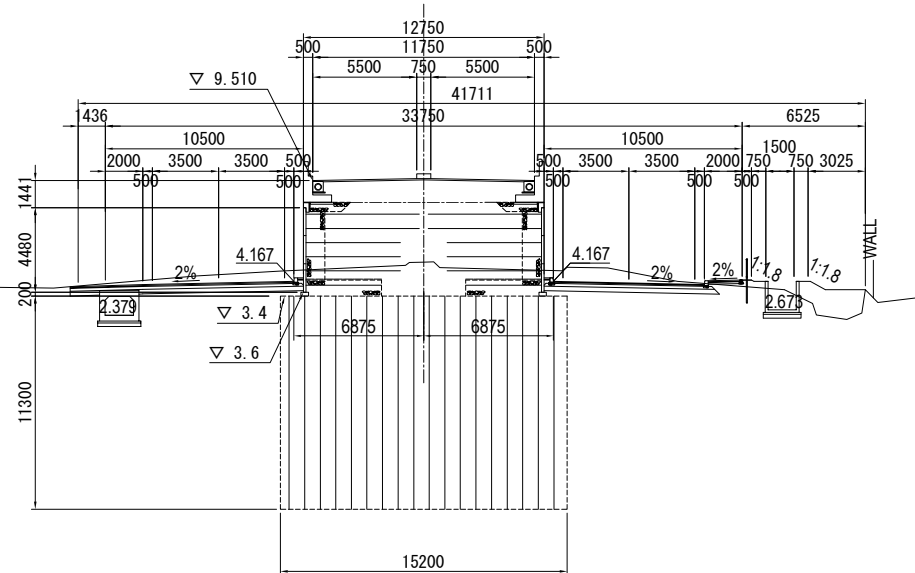


DL=3.00

STA. 3+320

GH = 5.18
PH = 4.167

℄



DL=3.00

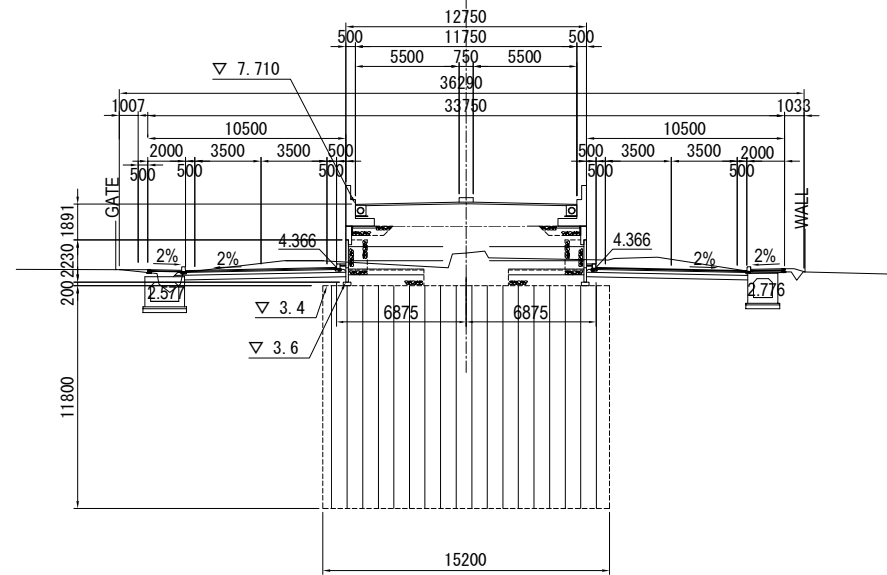
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	CROSS SECTION(2)	3
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P3-RD-4070

CROSS SECTION(3) S=1:400

STA. 3+380

GH = 5.13
PH = 4.366

℄

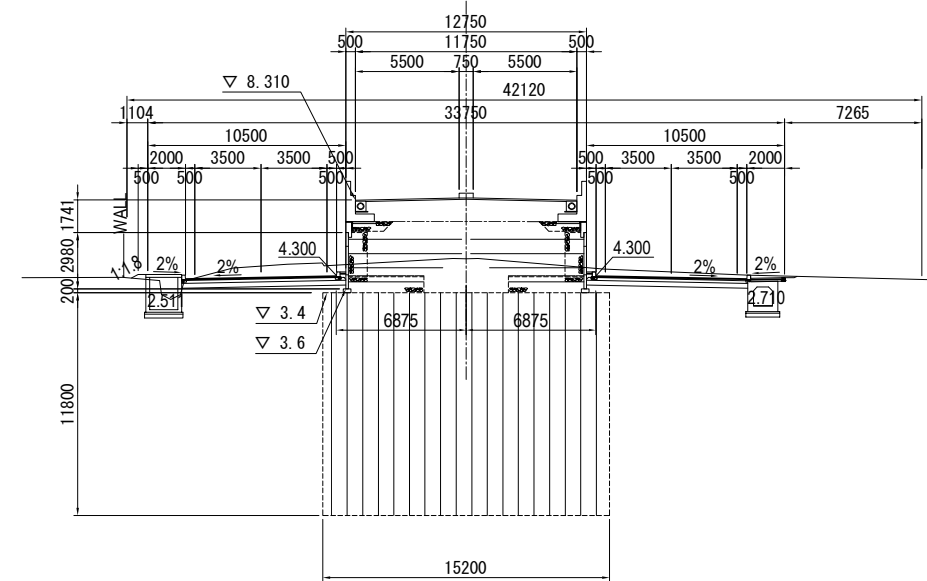


DL=3.00

STA. 3+360

GH = 5.20
PH = 4.300

℄



DL=3.00

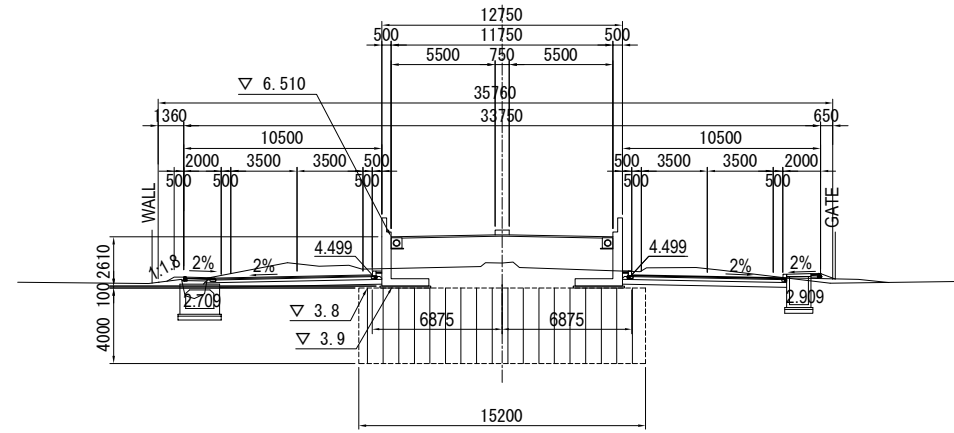
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY CHECKED BY APPROVED BY	K. TACHIBANA T. HAYAKAWA Y. SANO	29 Sep.2017 3 Oct.2017 6 Oct.2017	CROSS SECTION(3)	3 DWG No. P3-RD-4080

CROSS SECTION(4) S=1:400

STA. 3+420

GH = 5.12
PH = 4.499

⌀

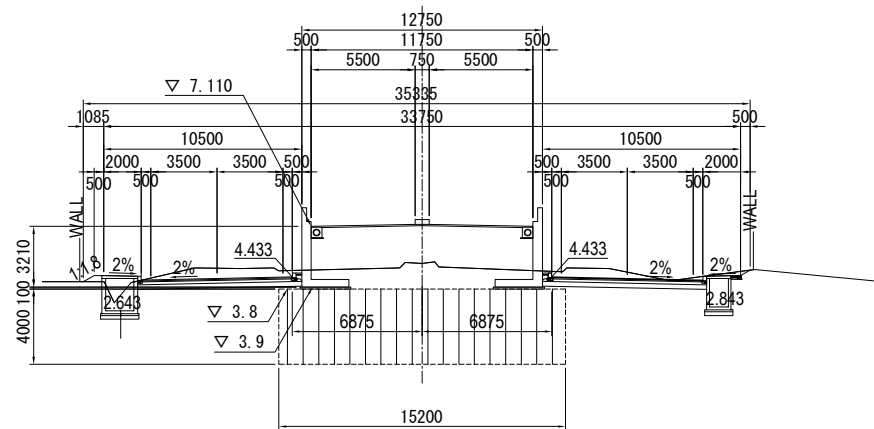


DL=3.00

STA. 3+400

GH = 5.15
PH = 4.433

⌀



DL=3.00

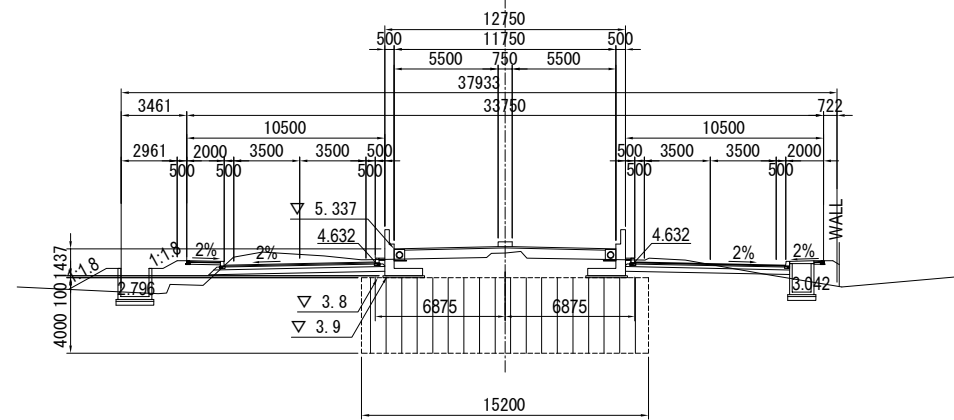
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY CHECKED BY APPROVED BY	K. TACHIBANA T. HAYAKAWA Y. SANO	 	29 Sep.2017 3 Oct.2017 6 Oct.2017	CROSS SECTION(4)
								3 DWG No. P3-RD-4090

CROSS SECTION(5) S=1:400

STA. 3+460

GH = 5.11
PH = 4.632

℄

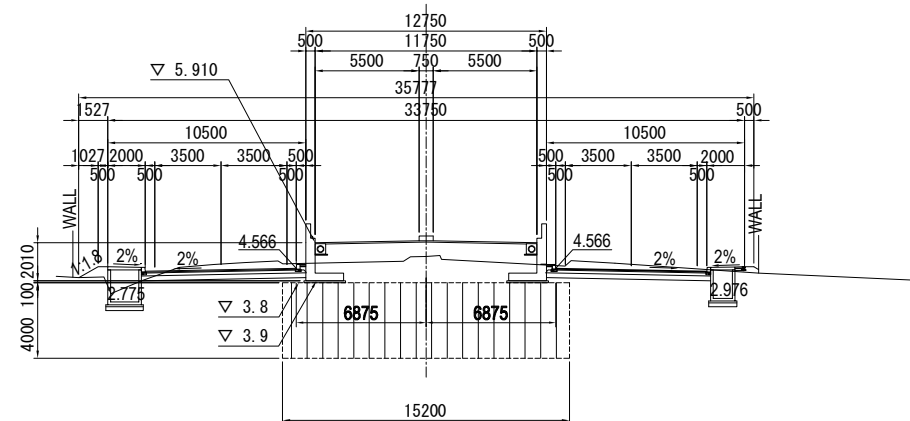


DL=3.00

STA. 3+440

GH = 5.19
PH = 4.566

℄



DL=3.00

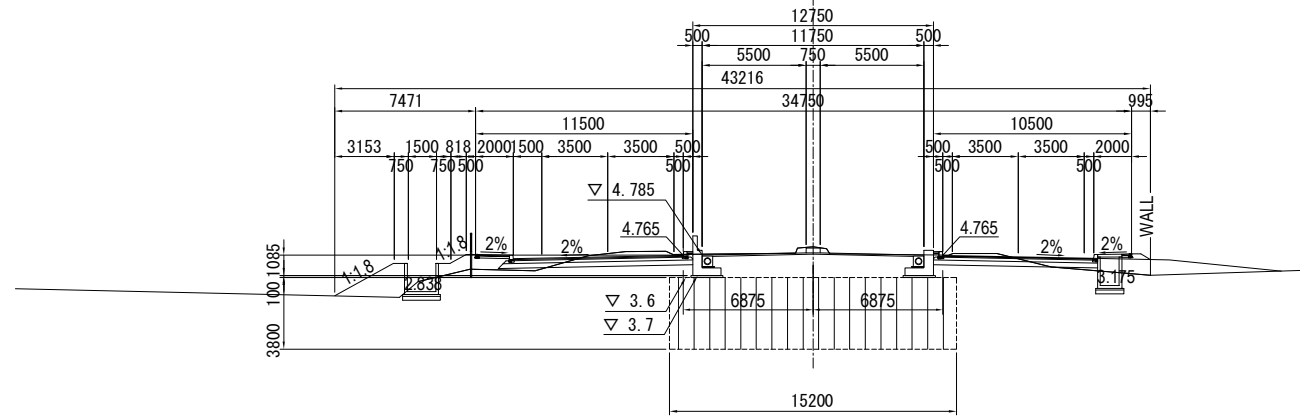
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY	K. TACHIBANA	29 Sep.2017	CROSS SECTION(5)	3
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		DWG No.
				APPROVED BY	Y. SANO	6 Oct.2017		P3-RD-4100

CROSS SECTION(6) S=1:400

STA. 3+500

GH = 5.23
PH = 4.765

℄

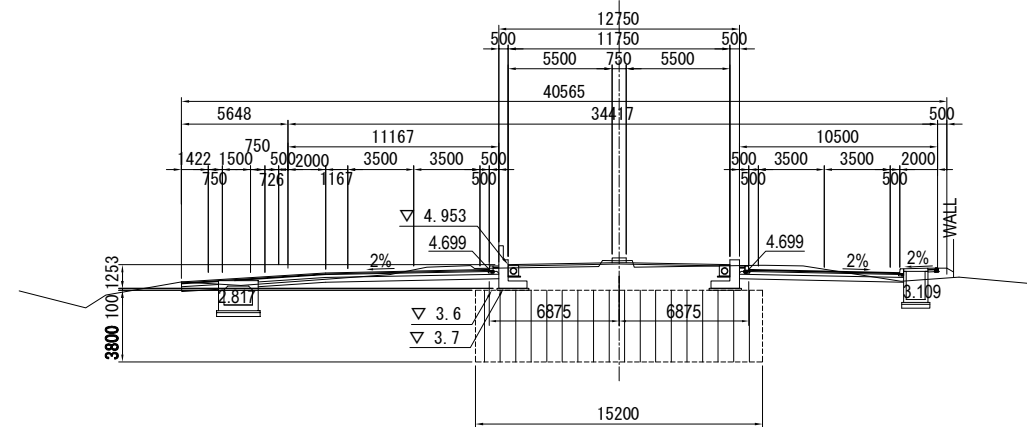


DL=3.00

STA. 3+480

GH = 5.16
PH = 4.699

℄

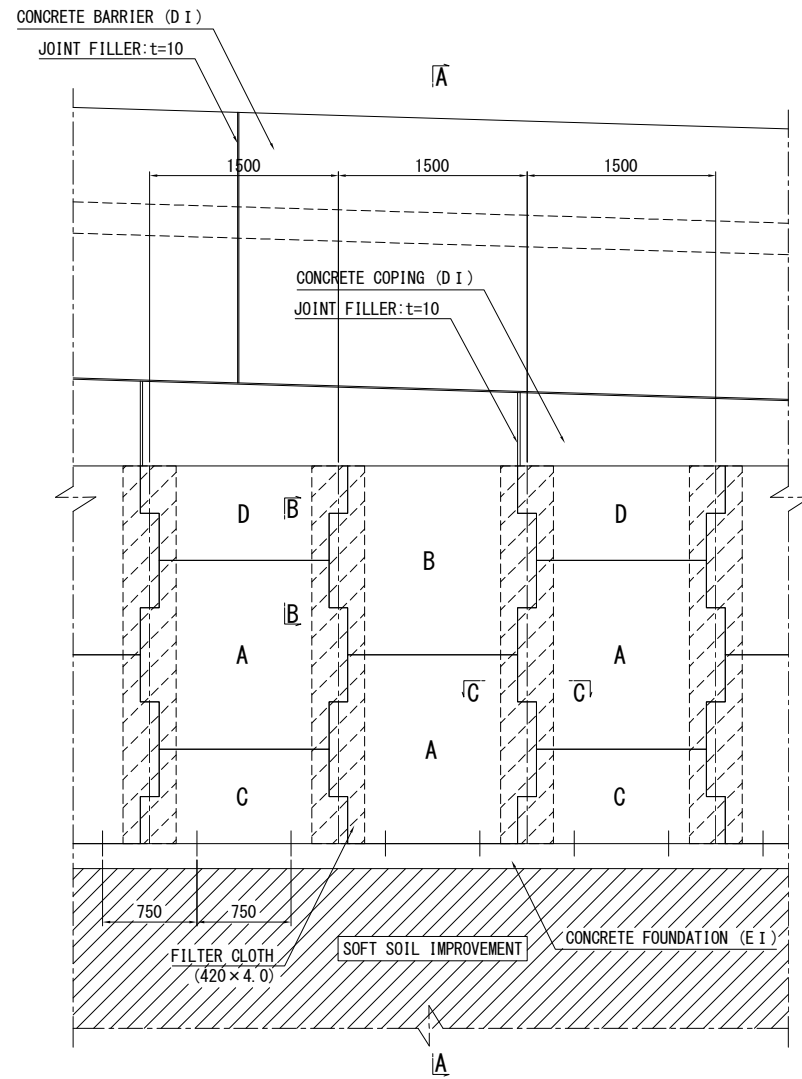


DL=3.00

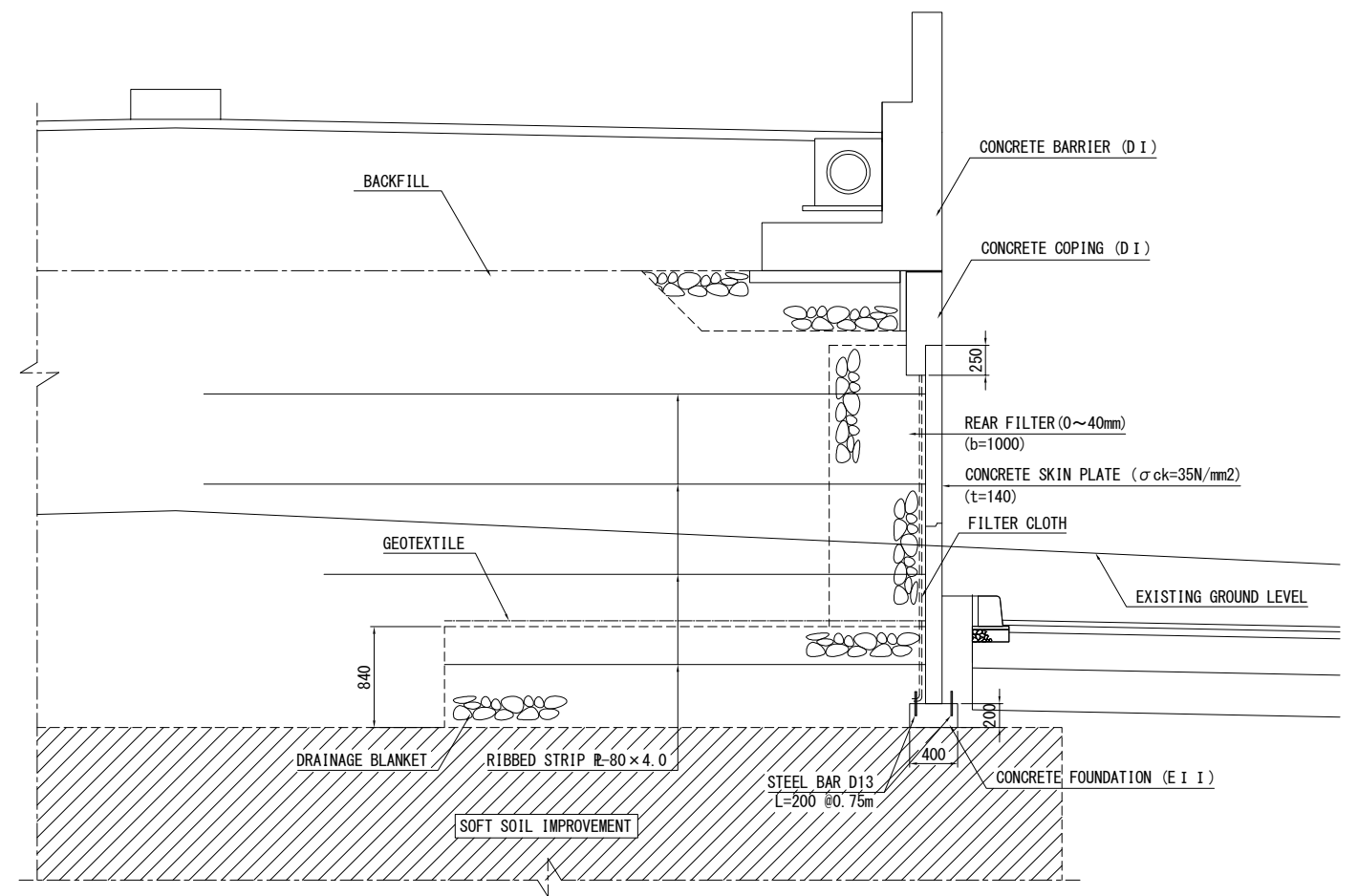
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY CHECKED BY APPROVED BY	K. TACHIBANA T. HAYAKAWA Y. SANO	29 Sep.2017 3 Oct.2017 6 Oct.2017	CROSS SECTION(6)	3 DWG No. P3-RD-4110

DETAIL OF MECHANICALLY-STABILISED EARTH WALL(1)

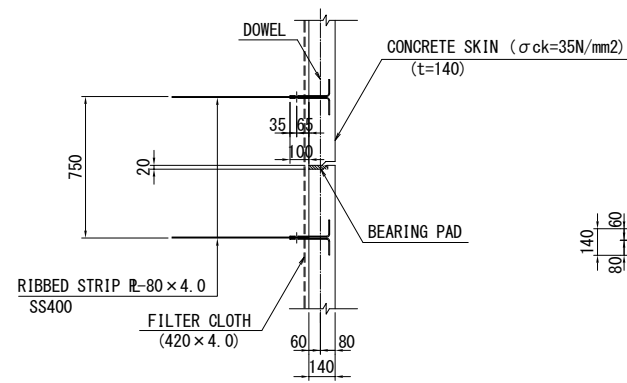
SKIN ARRANGEMENT S=1:60



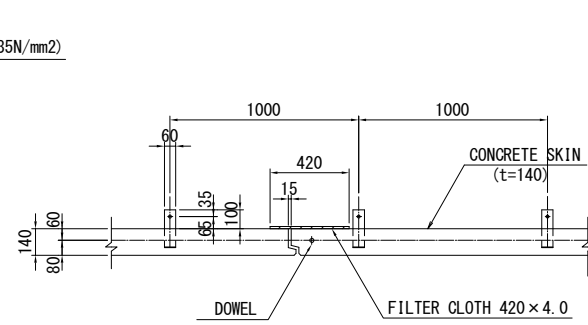
A-A CROSS SECTION S=1:60



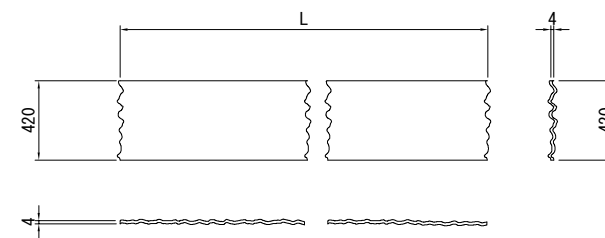
B-B CROSS SECTION S=1:40



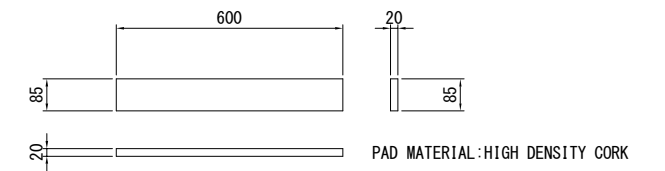
C-C CROSS SECTION S=1:40



FILTER CLOTH S=1:40



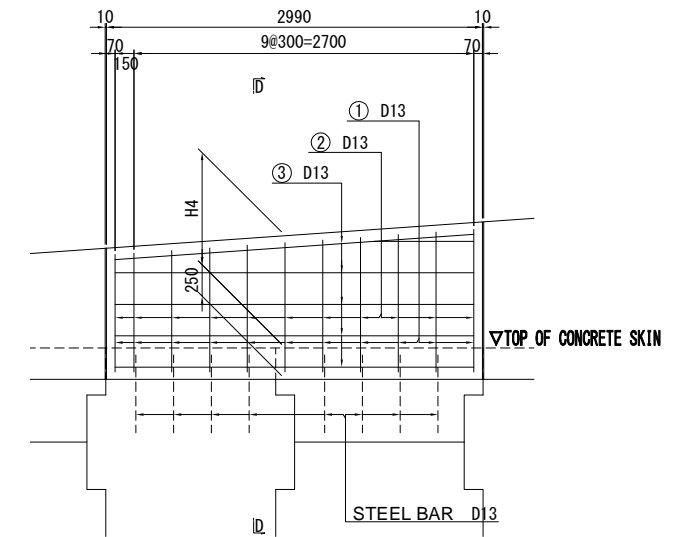
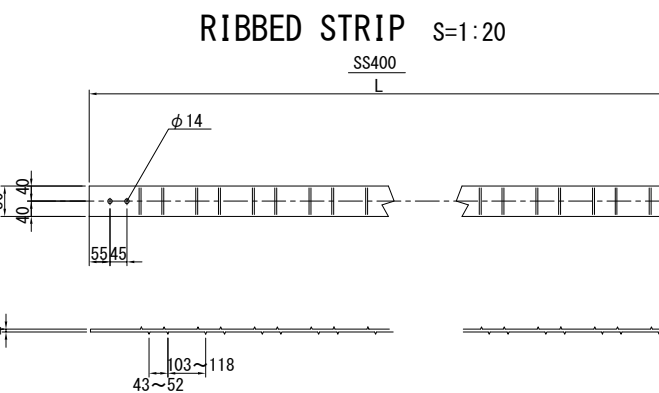
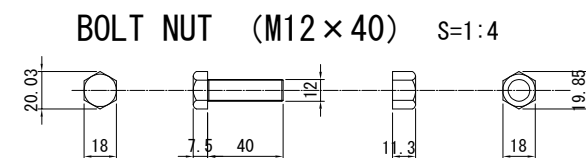
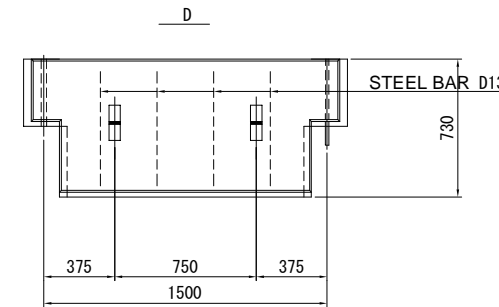
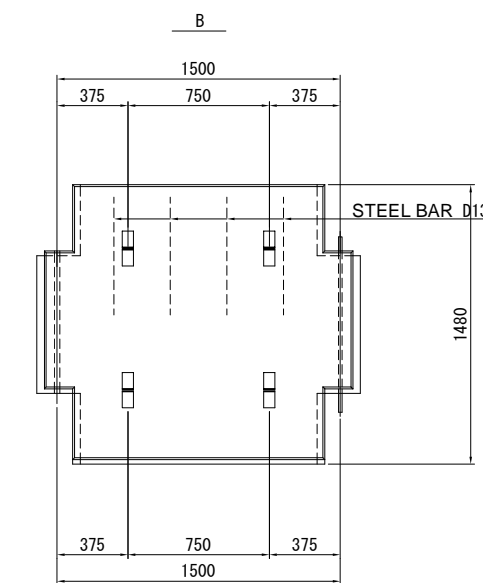
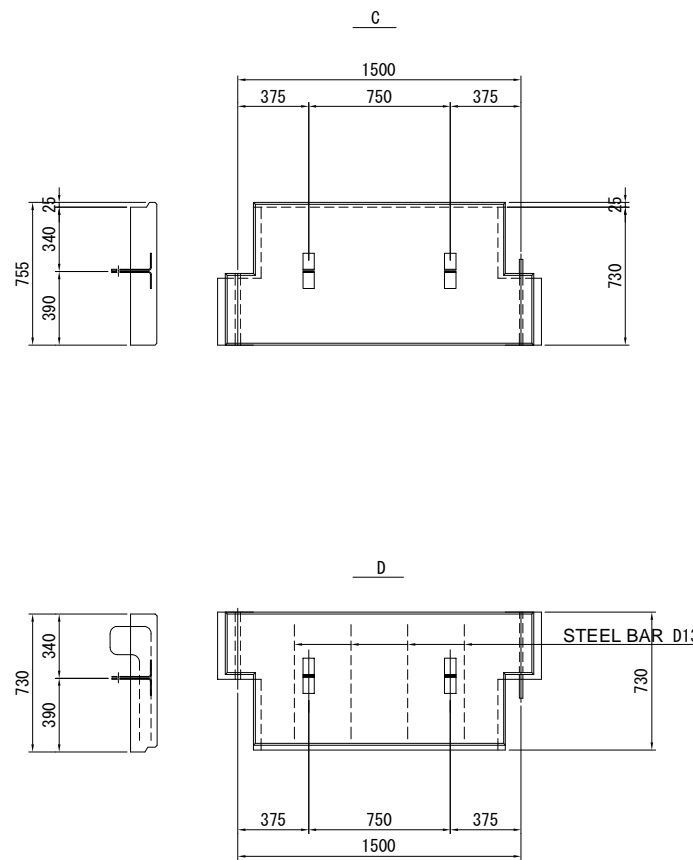
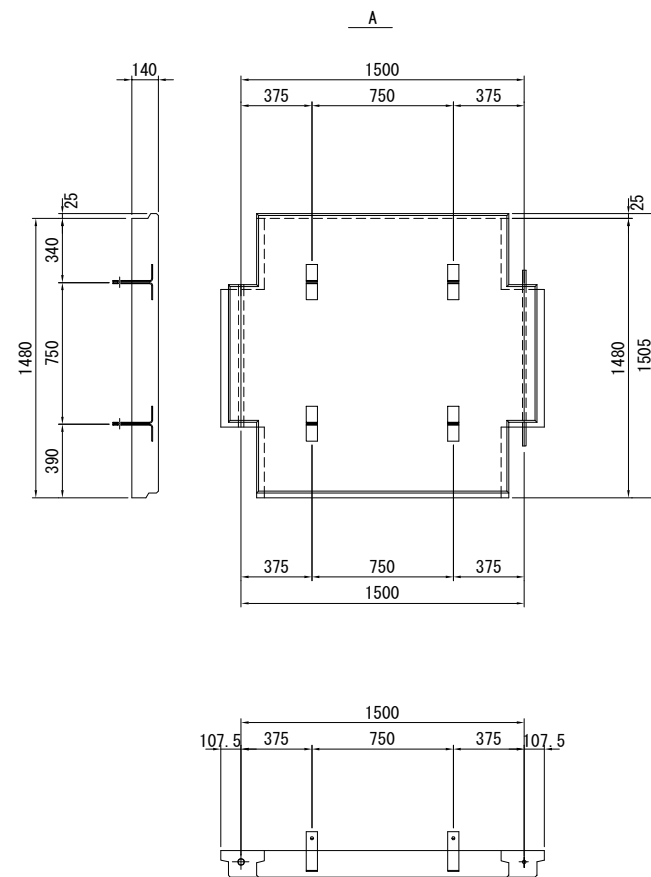
BEARING PAD S=1:20



DETAIL OF MECHANICALLY-STABILISED EARTH WALL(2)

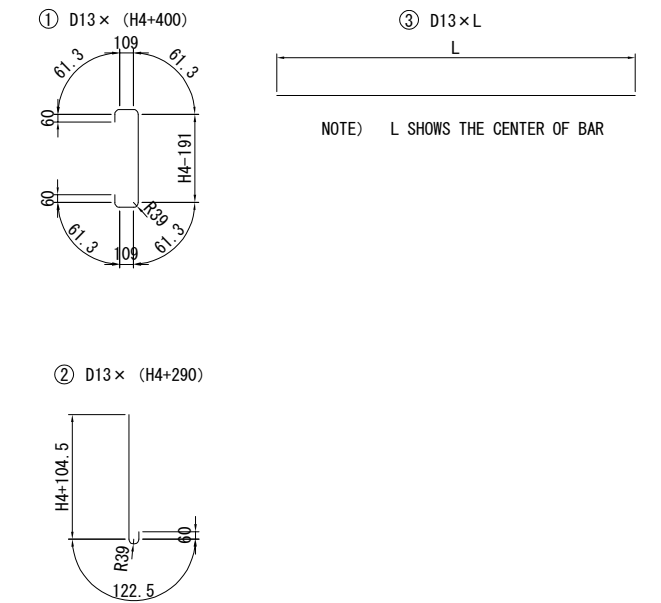
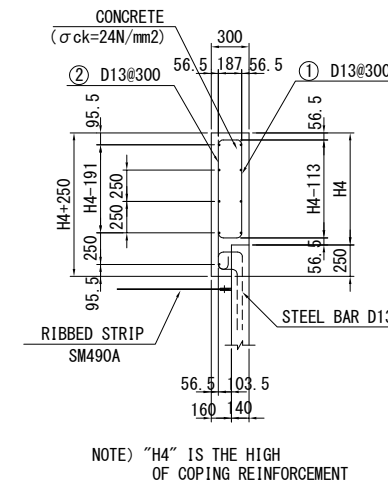
TYPE OF CONCRETE SKIN S=1:40

COPING REINFORCEMENT S=1:60



D-D CROSSSECTION

BAR SCHEDULING

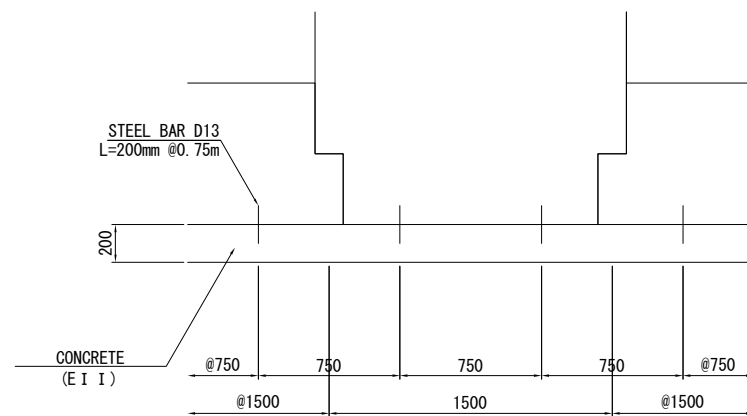


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JICA JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME K. TACHIBANA T. HAYAKAWA Y. SANO	SIGNATURE <i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i>	DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE DETAIL OF MECHANICALLY-STABILISED EARTH WALL(2)	PACKAGE 3 DWG No. P3-RD-4130
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DETAIL OF MECHANICALLY-STABILISED EARTH WALL(3)

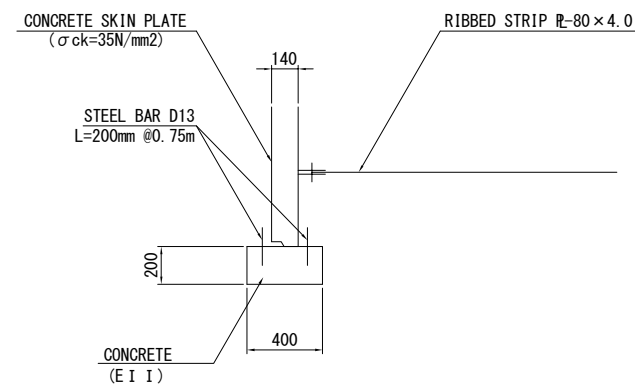
CONCRETE FOUNDATION DRAWING S=1:40

FRONT VIEW DRAWING



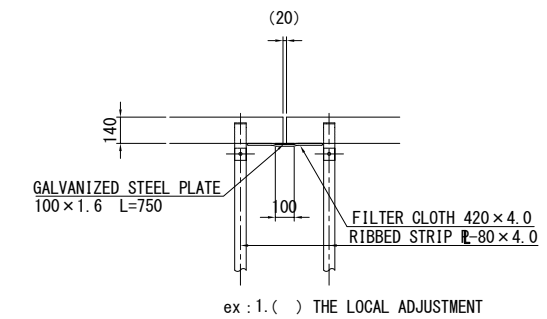
NOTE) 1. FOUNDATION WORK OF TOP FINISH:TROWEL FINISH

CROSS SECTION



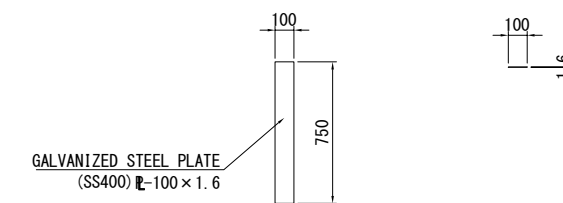
JOINT DETAIL DRAWING S=1:40

CROSS SECTION



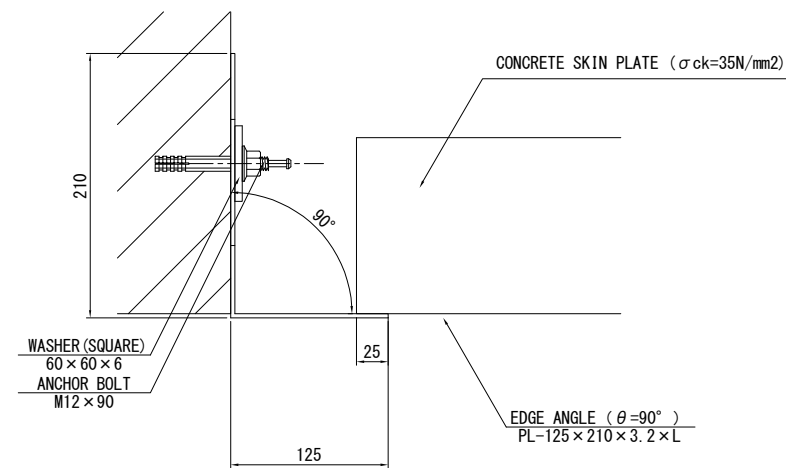
GALVANIZED STEEL PLATE S=1:40

FRONT VIEW DRAWING CROSS SECTION



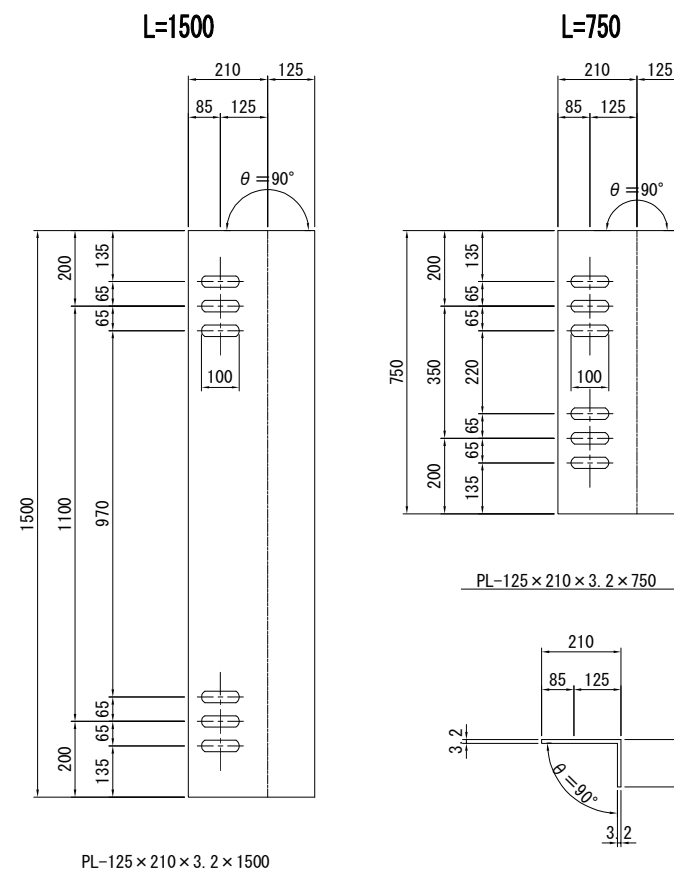
EDGE DETAIL DRAWING

CROSS SECTION S=1:6



NOTE) 1. BOLT IT IS USED TWO PER ONE EDGE ANGLE

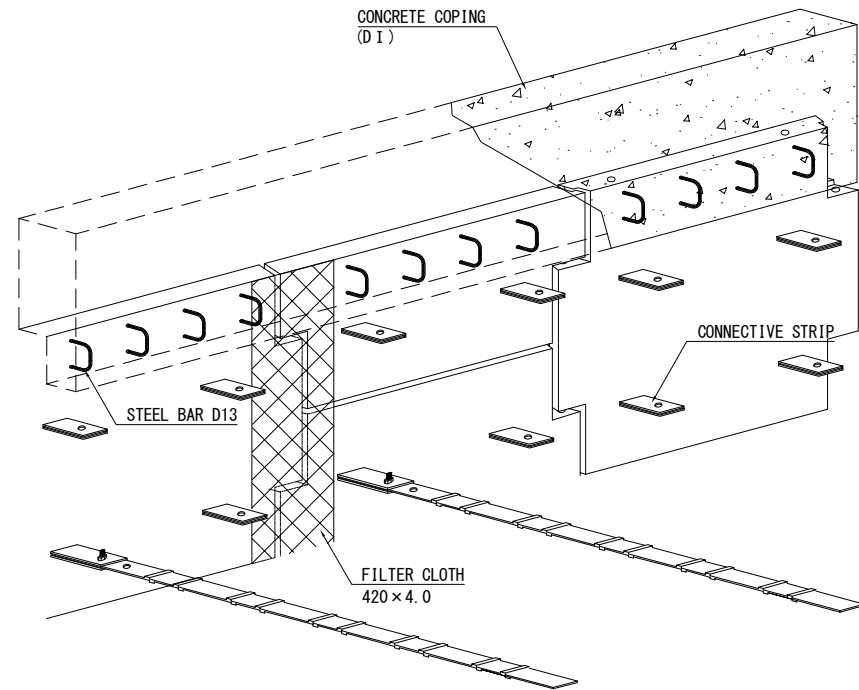
EDGE ANGLE BRACKET S=1:20



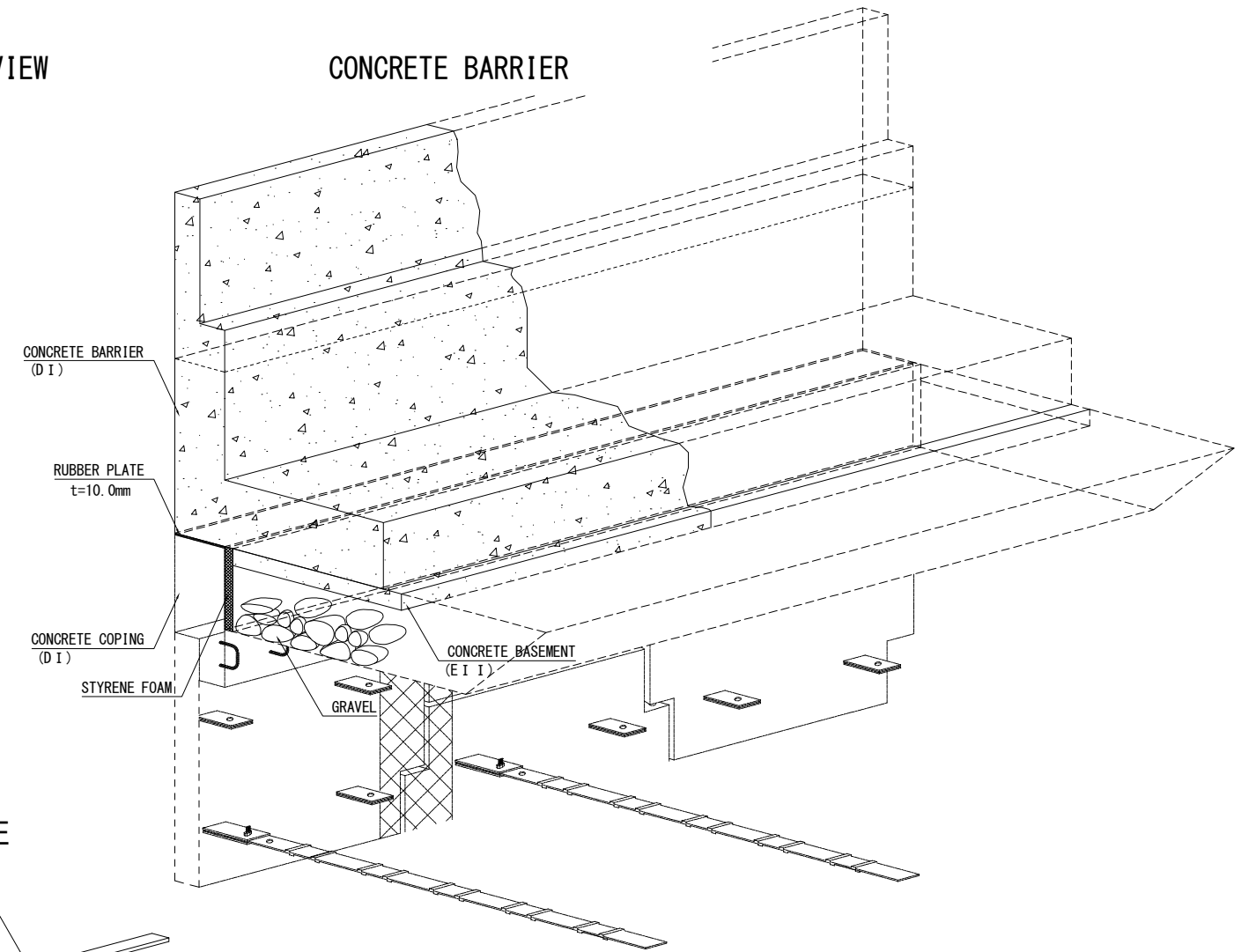
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA	橋 馨	29 Sep.2017	DETAIL OF MECHANICALLY-STABILISED EARTH WALL(3)	3
				T. HAYAKAWA	平川 知平	3 Oct.2017		DWG No.
				Y. SANO	佐野 祐一	6 Oct.2017		P3-RD-4140

DETAIL OF MECHANICALLY-STABILISED EARTH WALL(4)

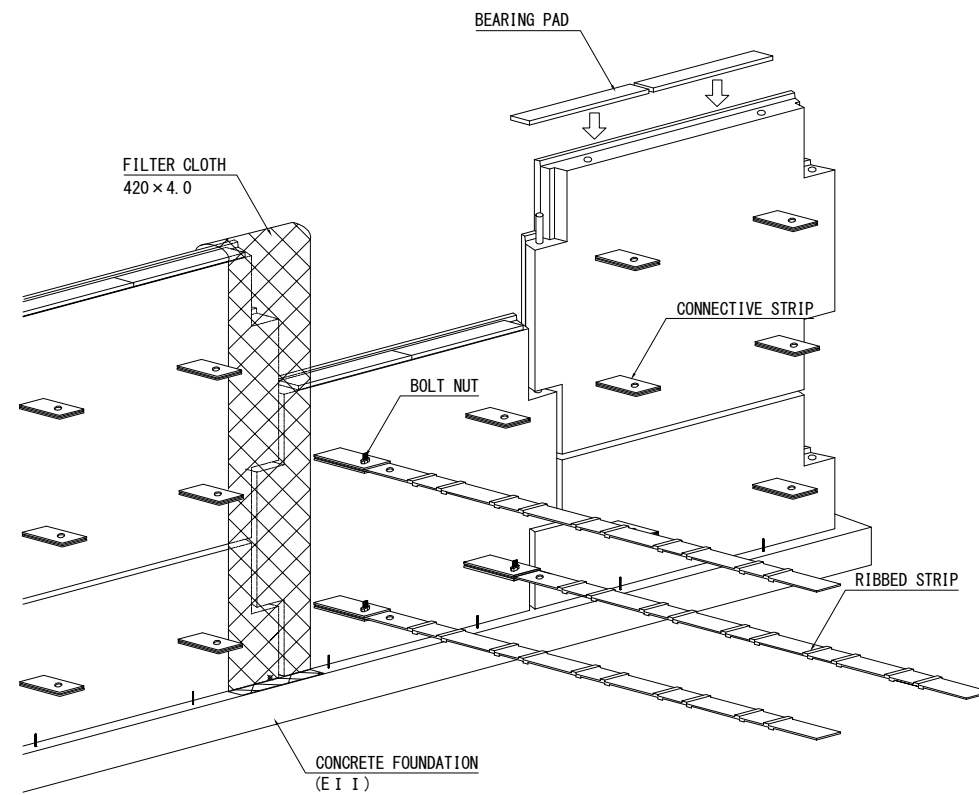
CONCRETE COPING



BIRD'S EYE VIEW



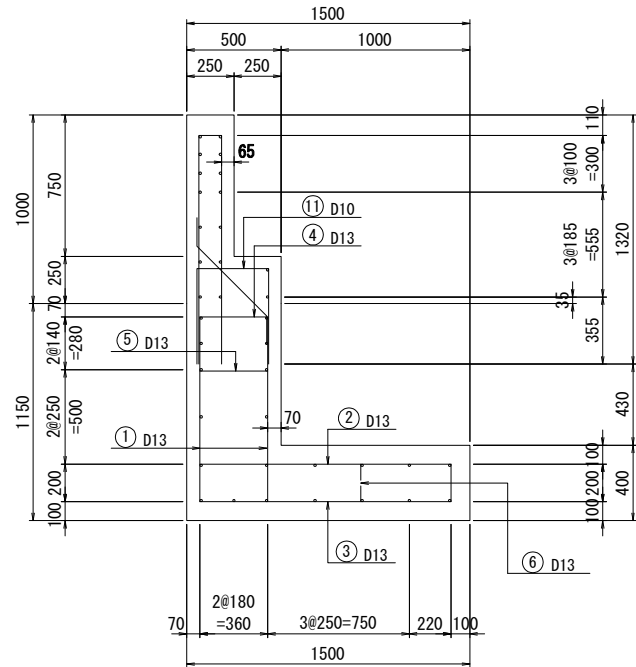
CONCRETE SKIN PLATE



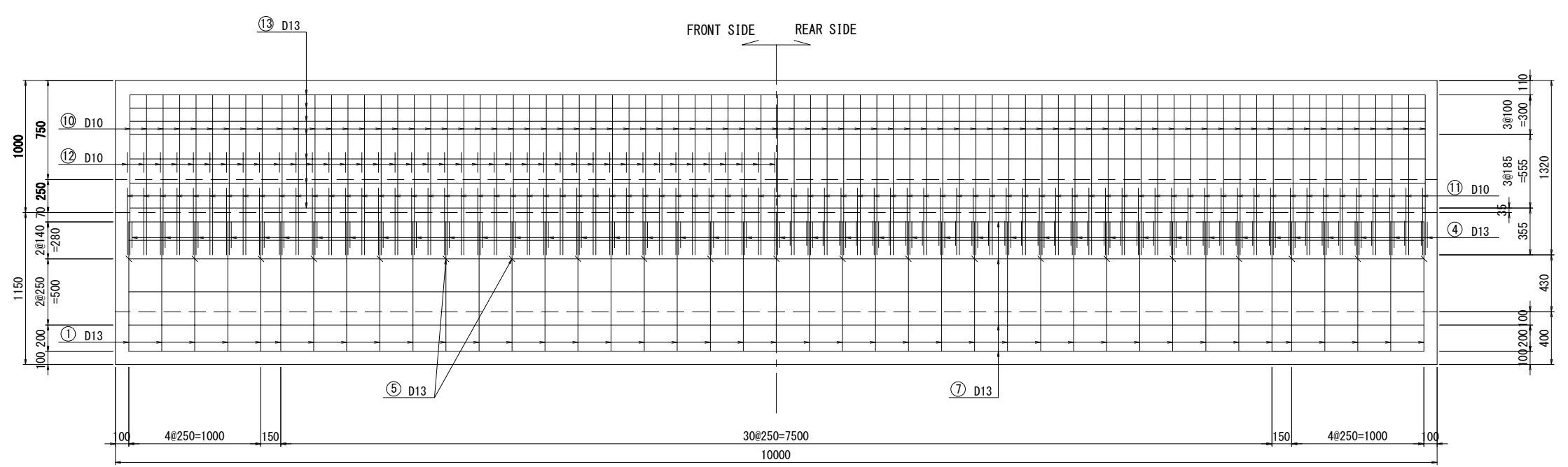
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	DETAIL OF MECHANICALLY-STABILISED EARTH WALL(4)	3
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P3-RD-4150

DETAIL OF CONCRETE BARRIER ON MECHANICALLY-STABILISED EARTH WALL(1) S=1:40

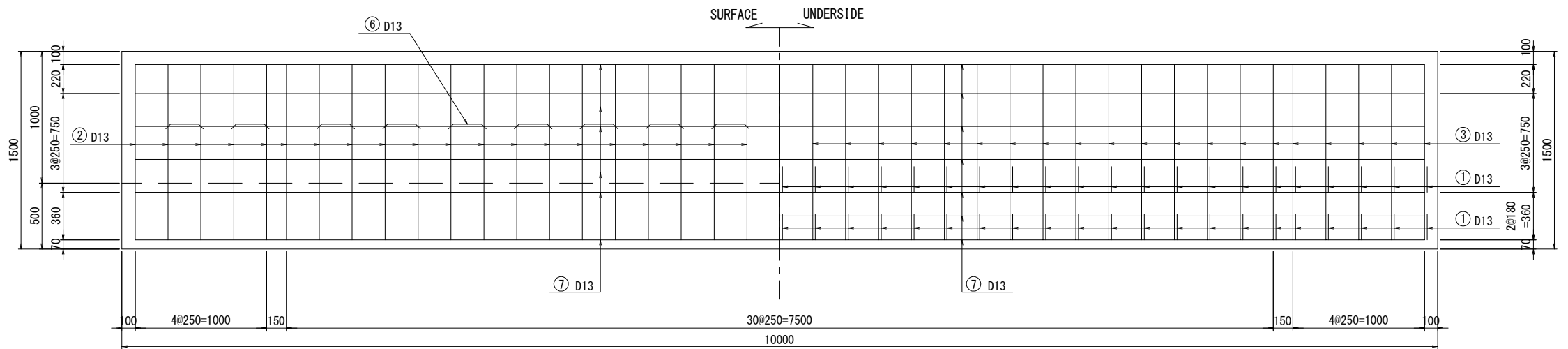
SECTION



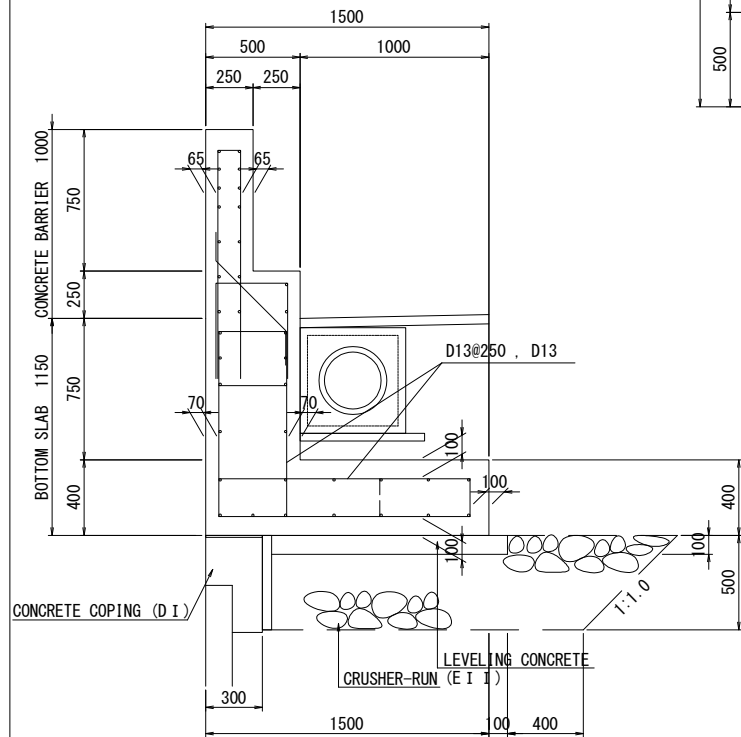
BREST WALL



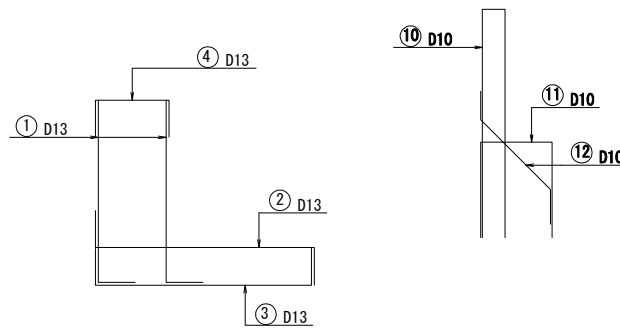
BOTTOM SLAB



SETTING



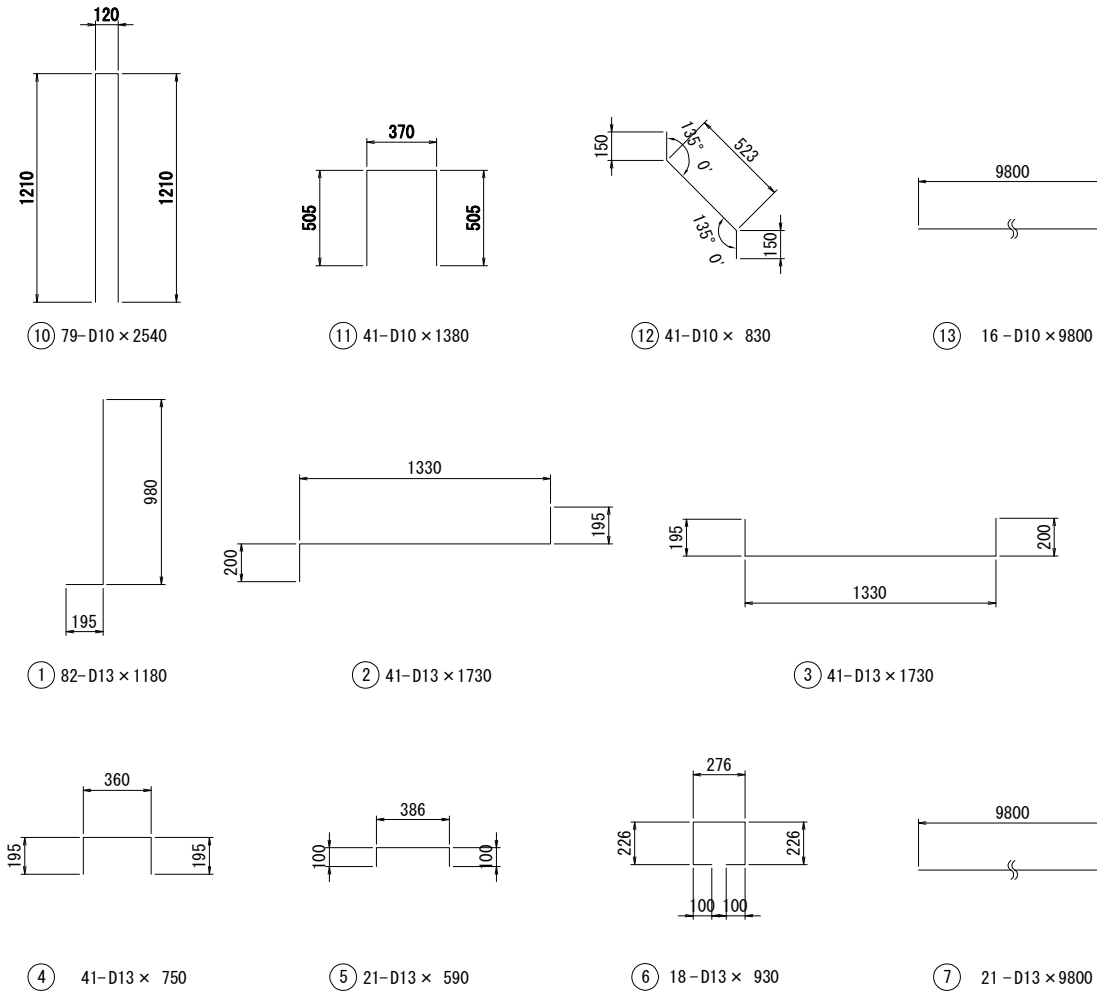
BAR ASSEMBLING



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME K. TACHIBANA T. HAYAKAWA Y. SANO	SIGNATURE 	DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE DETAIL OF CONCRETE BARRIER ON MECHANICALLY-STABILISED EARTH WALL(1)	PACKAGE 3 DWG No. P3-RD-4160
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DETAIL OF CONCRETE BARRIER ON MECHANICALLY-STABILISED EARTH WALL(2)

BAR SCHEDULING

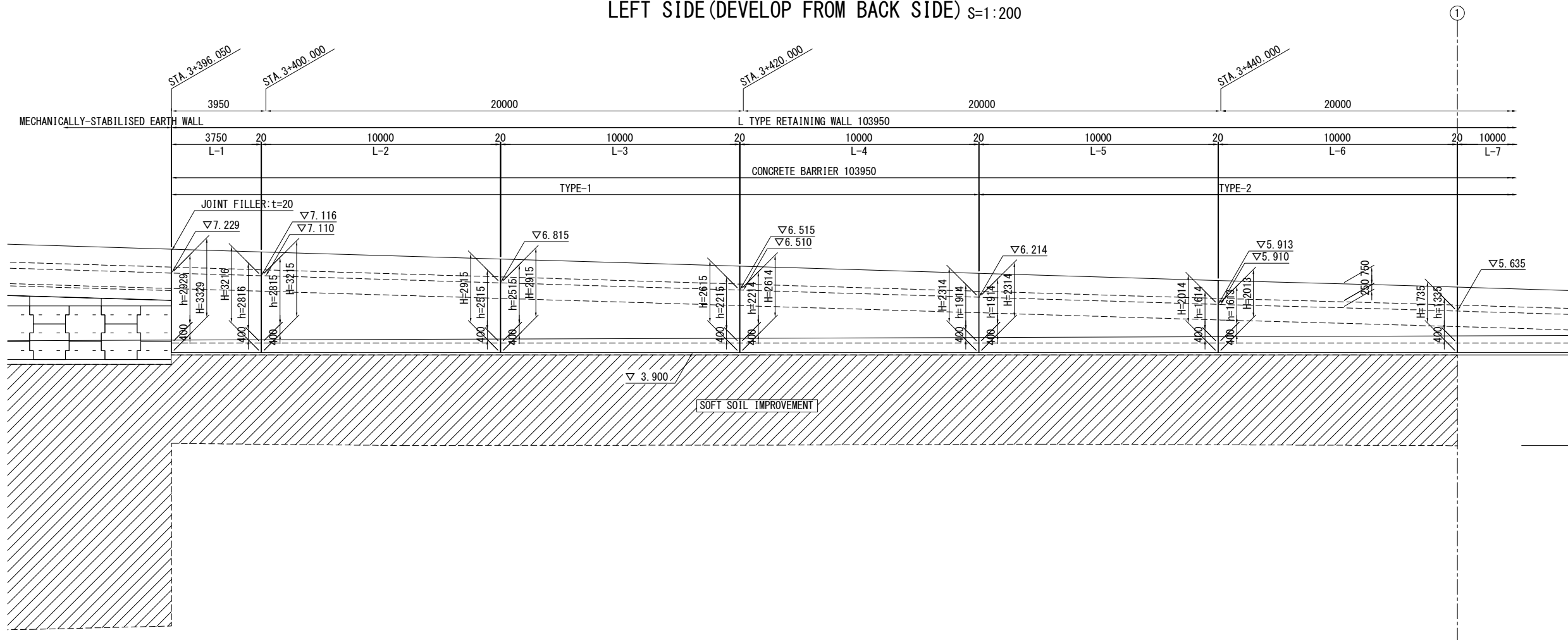


LIST OF REINFORCEMENT (per 10.0m)

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
HANDRAIL							
10	D10	2540	79	0.560	1.42	112	□
11	D10	1380	41	0.560	0.77	32	□
12	D10	830	41	0.560	0.46	19	□
13	D10	9800	16	0.560	5.49	88	—
BOTTOM SLAB							
1	D13	1180	82	0.995	1.17	96	┘
2	D13	1730	41	0.995	1.72	71	┘
3	D13	1730	41	0.995	1.72	71	┘
4	D13	750	41	0.995	0.75	31	┘
5	D13	590	21	0.995	0.59	12	┘
6	D13	930	18	0.995	0.93	17	□
7	D13	9800	21	0.995	9.75	205	—
						D10	251 kg
						D13	503 kg
total						754	kg

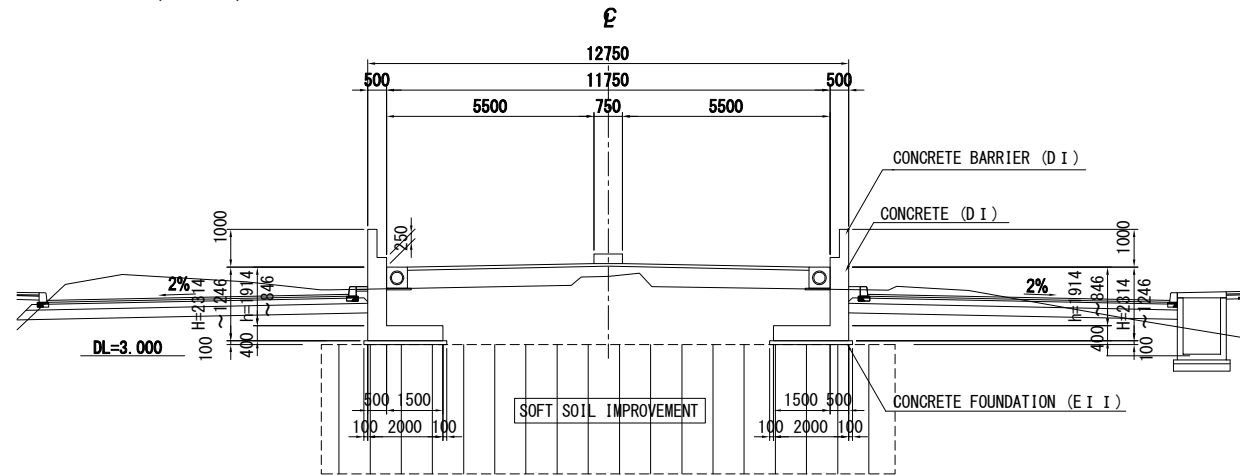
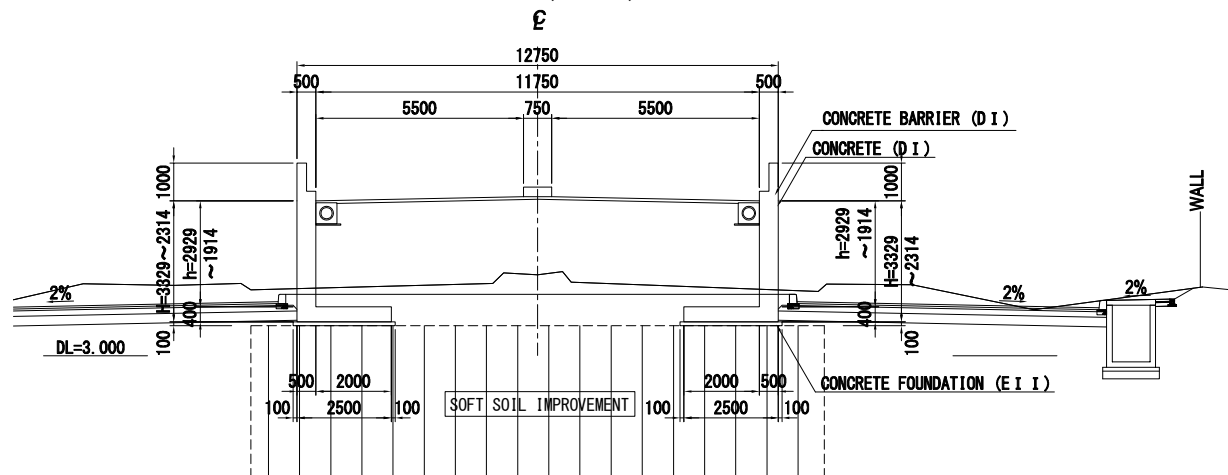
DETAIL OF L TYPE RETAINING WALL(1)

LEFT SIDE (DEVELOP FROM BACK SIDE) S=1:200



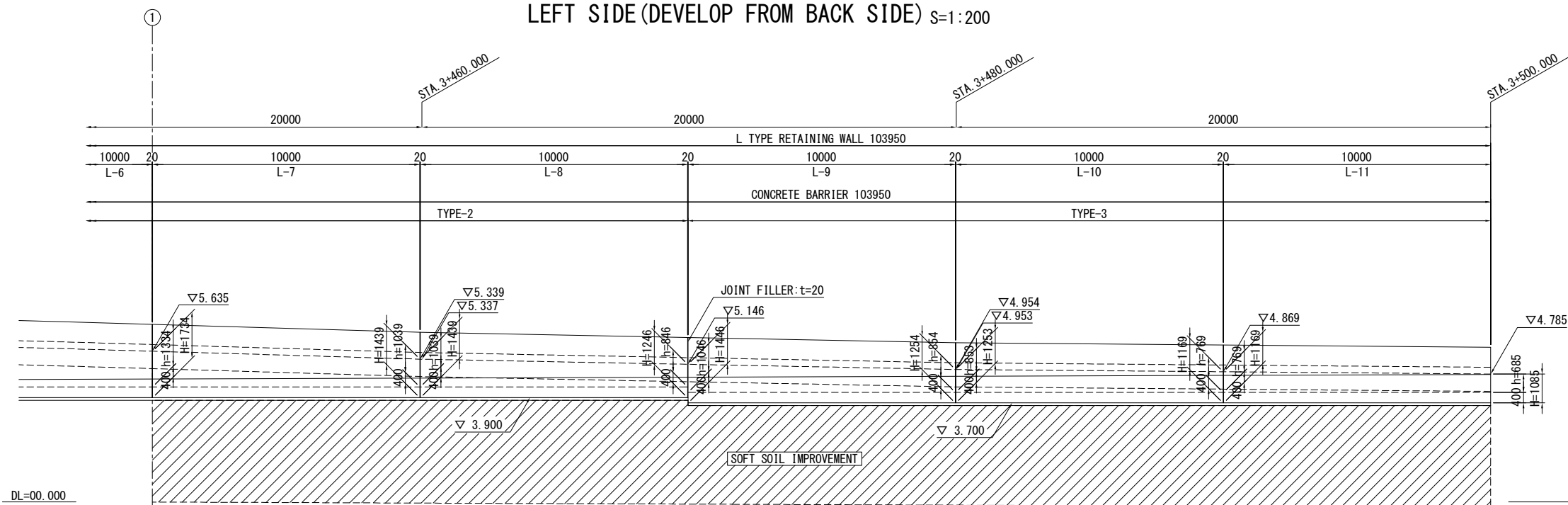
(TYPE-1)

CROSS SECTION S=1:200 (TYPE-2)

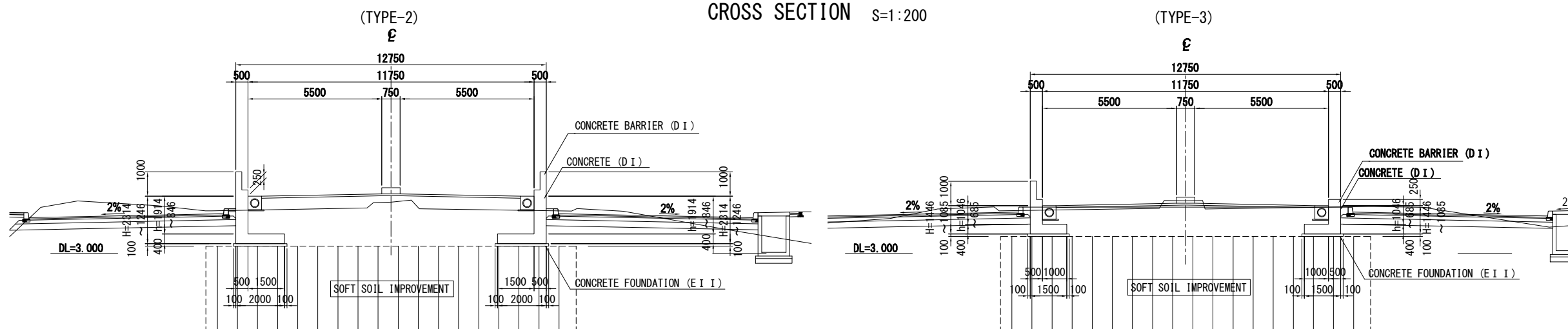


DETAIL OF L TYPE RETAINING WALL(2)

LEFT SIDE (DEVELOP FROM BACK SIDE) S=1:200



CROSS SECTION S=1:200



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM

NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

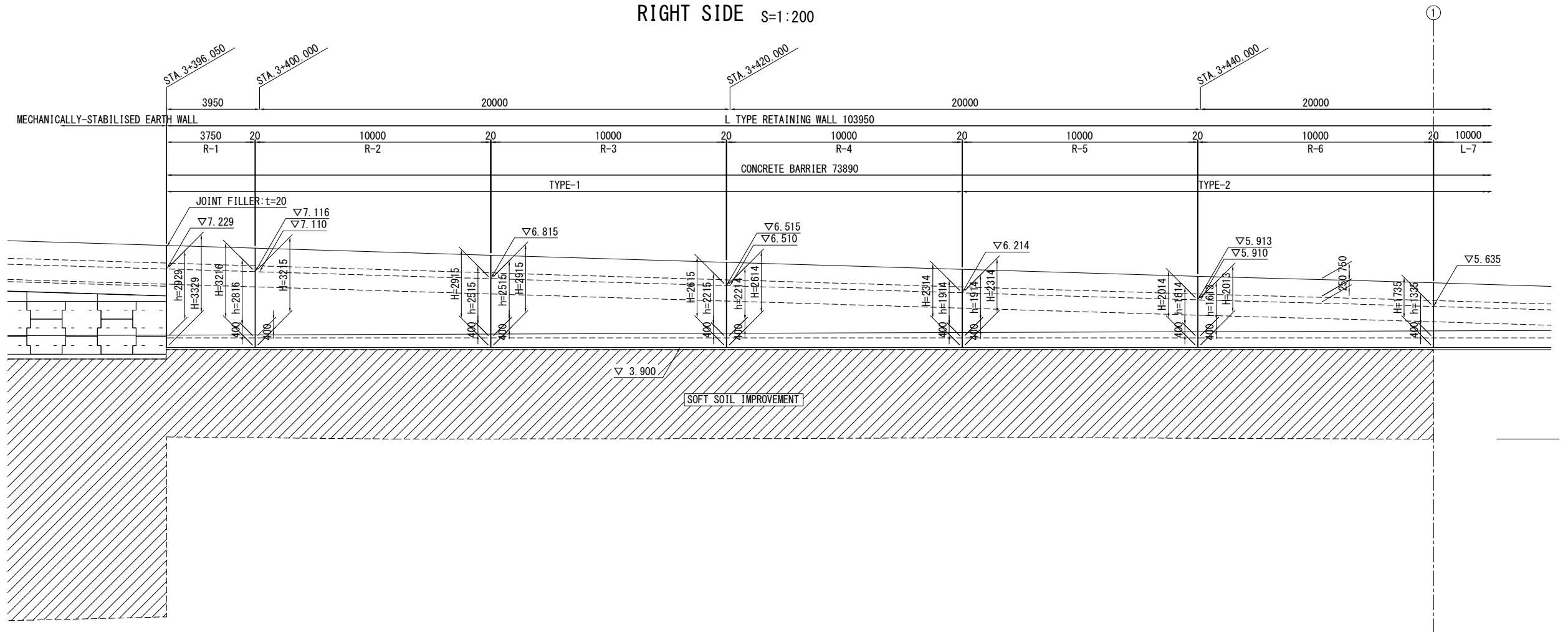
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DETAIL OF L TYPE RETAINING WALL(2)

PACKAGE
3
DWG No.
P3-RD-4190

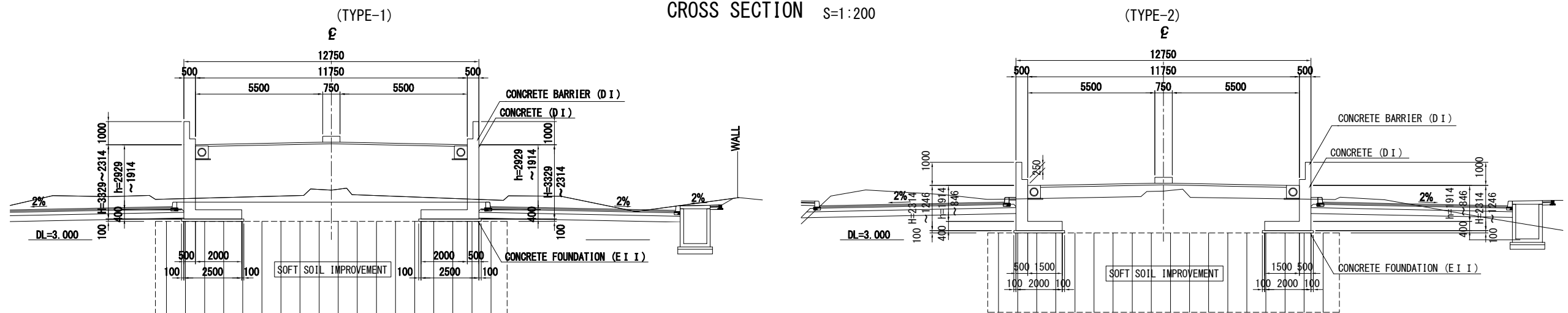
DETAIL OF L TYPE RETAINING WALL(3)

RIGHT SIDE S=1:200



DL=00.000

CROSS SECTION S=1:200



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
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JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
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METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

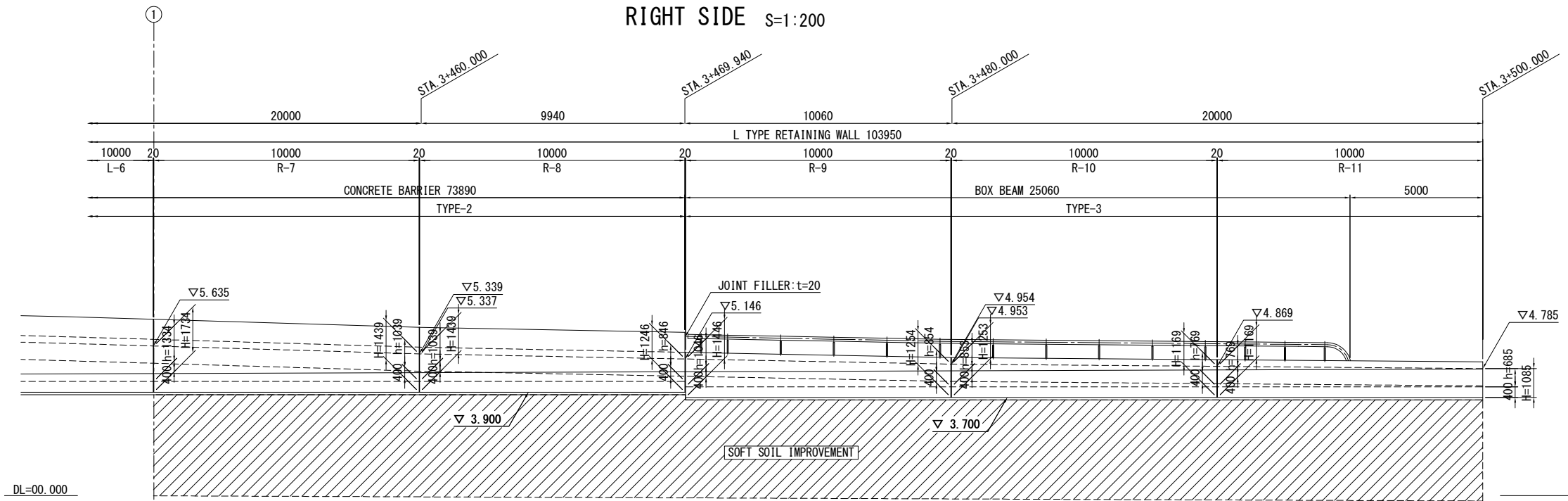
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DETAIL OF L TYPE RETAINING WALL(3)

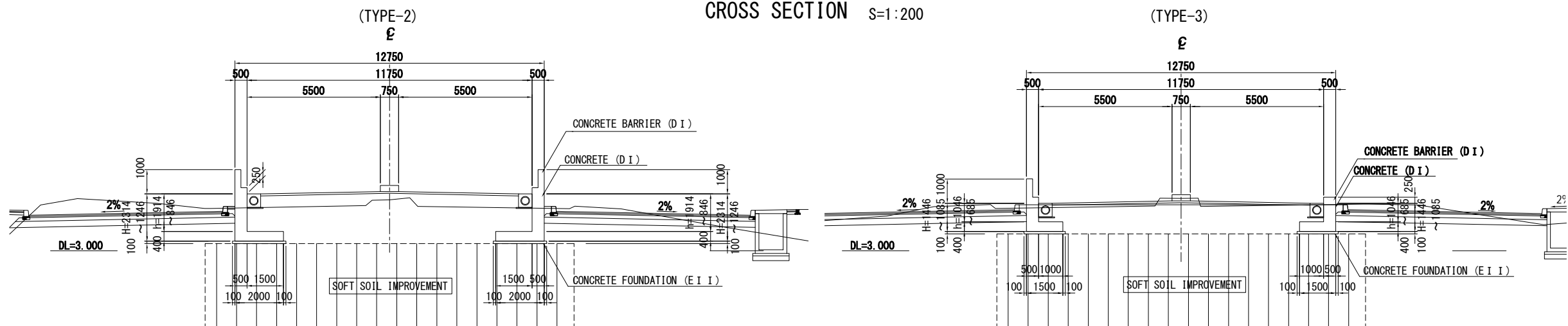
PACKAGE
3
DWG No.
P3-RD-4200

DETAIL OF L TYPE RETAINING WALL(4)

RIGHT SIDE S=1:200




CROSS SECTION S=1:200

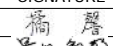
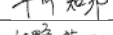
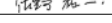


PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA JAPAN INTERNATIONAL
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 REPUBLIC OF THE UNION OF MYANMAR
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CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

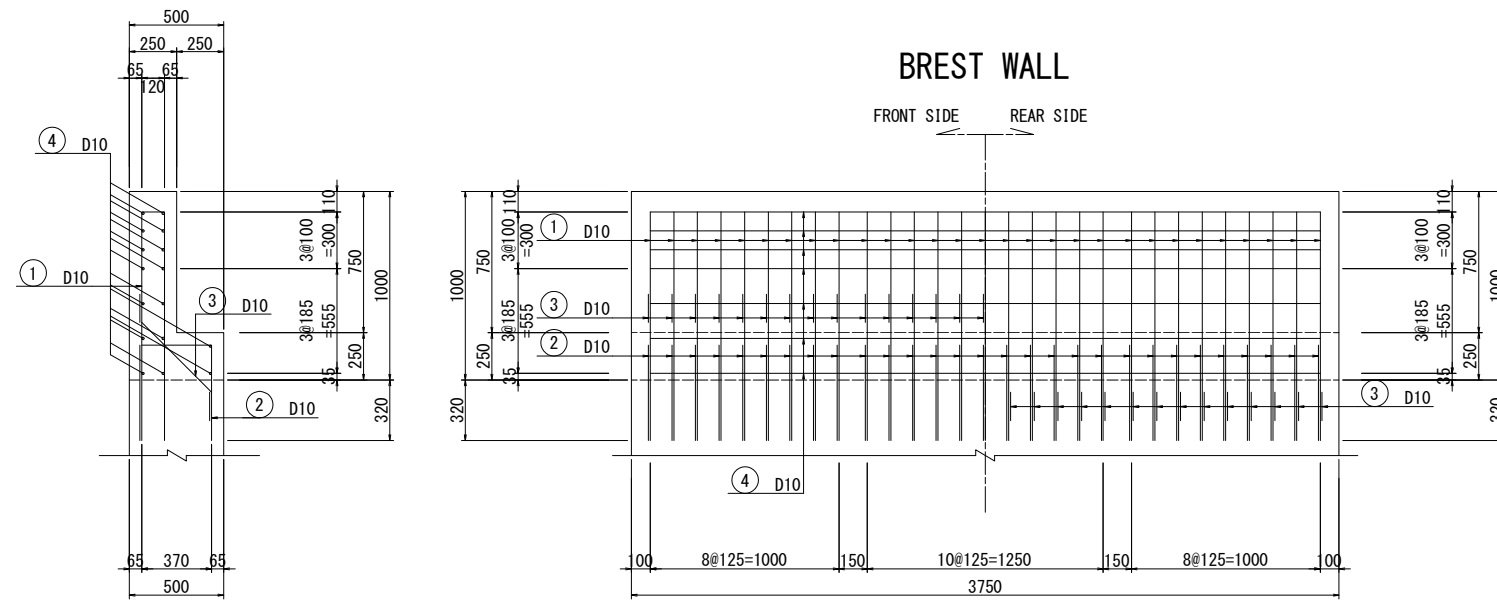
DRAWING TITLE
DETAIL OF L TYPE RETAINING WALL(4)

PACKAGE
3
DWG No.
P3-RD-4210

BAR ARRANGEMENT OF L TYPE RETAINING WALL(1) S=1:40

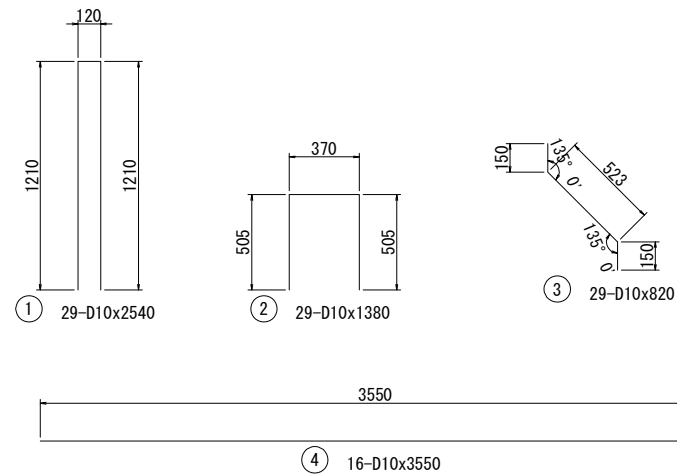
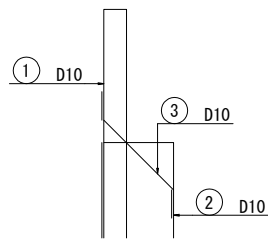
CONCRETE BARRIER(1) L-1 · R-1

SECTION



BAR SCHEDULING

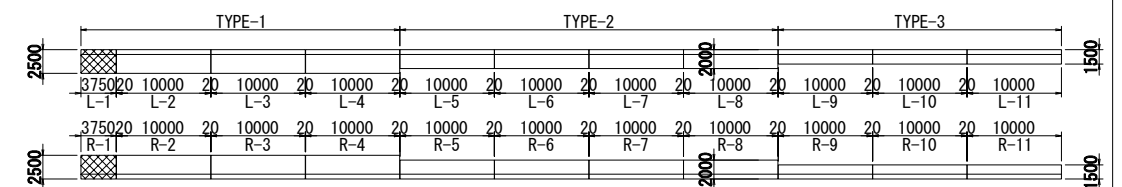
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D10	2540	29	0.56	1.42	41	
2	D10	1380	29	0.56	0.77	22	
3	D10	820	29	0.56	0.46	13	
4	D10	3550	16	0.56	1.99	32	
						108	
						D10	108 kg
						total	108 kg

KEY PLAN



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

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METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

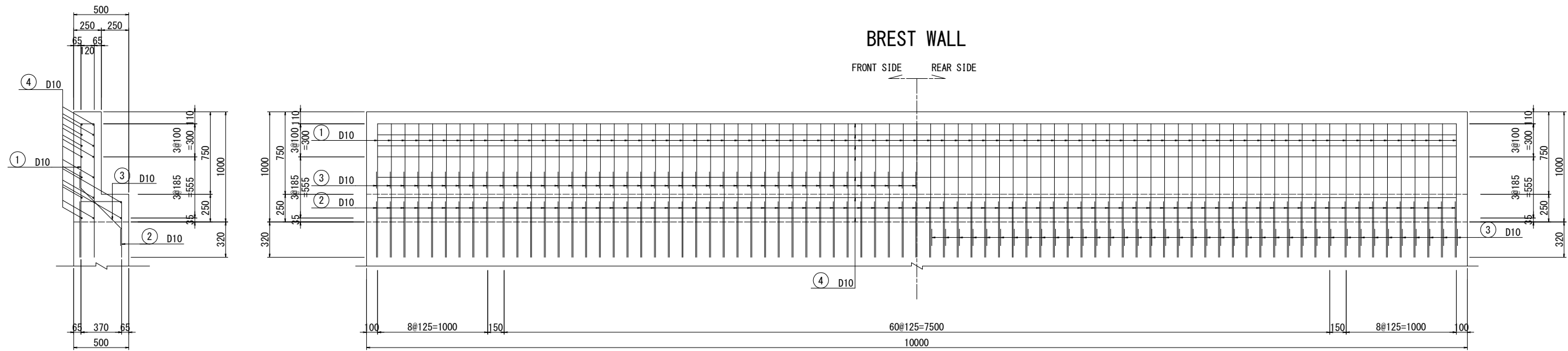
DRAWING TITLE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(1)

PACKAGE
3
DWG No.
P3-RD-4220

BAR ARRANGEMENT OF L TYPE RETAINING WALL(2) S=1:40

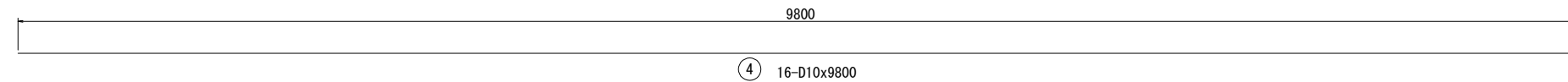
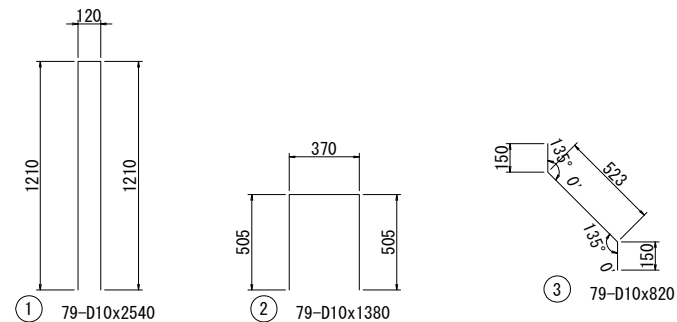
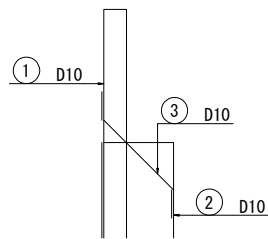
CONCRETE BARRIER (2) L2~11 · R2~8

SECTION



BAR SCHEDULING

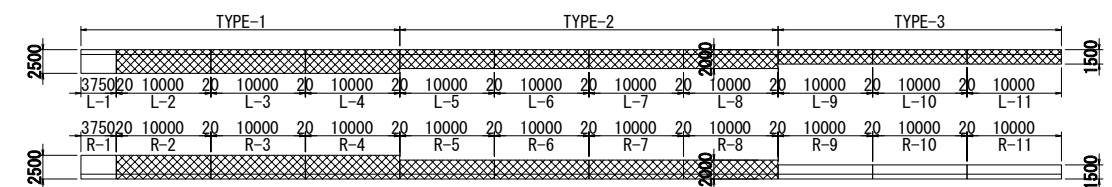
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D10	2540	79	0.56	1.42	112	
2	D10	1380	79	0.56	0.77	61	
3	D10	820	79	0.56	0.46	36	
4	D10	9800	16	0.56	5.49	88	
						297	
						D10	297 kg
						total	297 kg

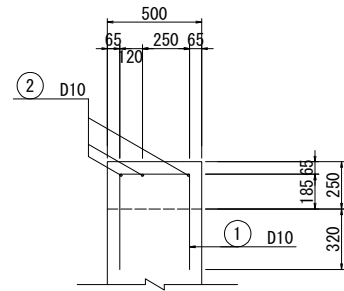
KEY PLAN



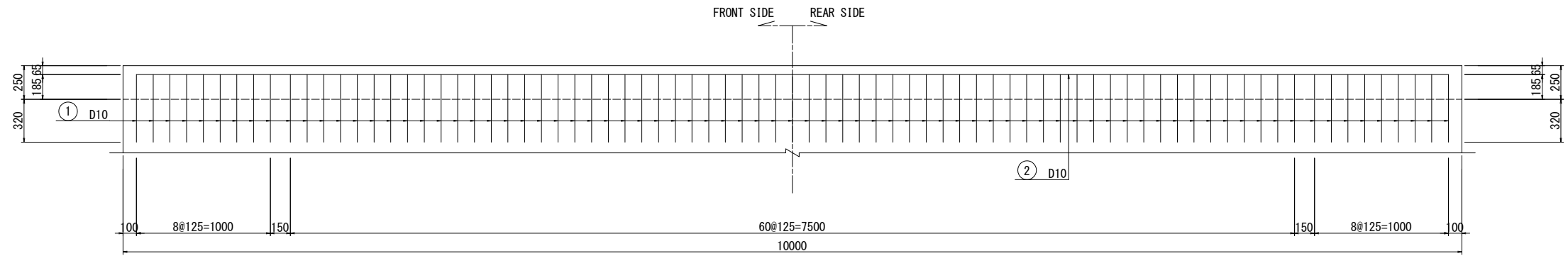
BAR ARRANGEMENT OF L TYPE RETAINING WALL(3) S=1:40

CONCRETE BARRIER (3) R-9~11

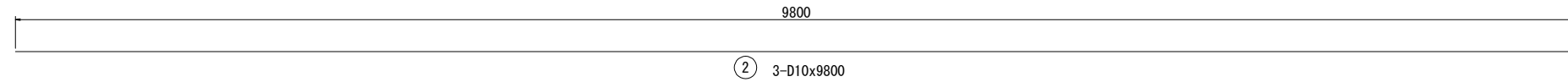
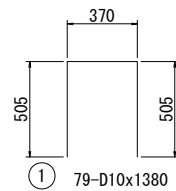
SECTION



BREST WALL



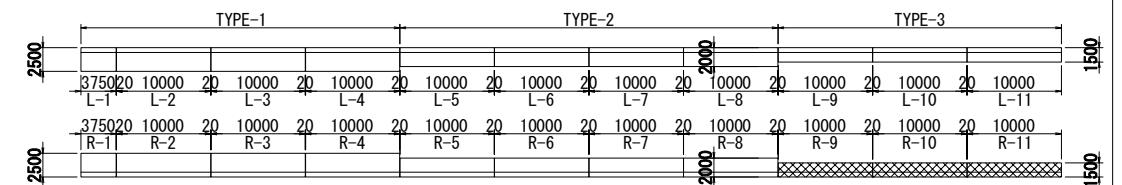
BAR SCHEDULING



LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D10	1380	79	0.56	0.77	61	□
2	D10	9800	3	0.56	5.49	16	—
						77	
						D10	77 kg
						total	77 kg

KEY PLAN



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE BAR ARRANGEMENT OF L TYPE RETAINING WALL(3)	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-4240

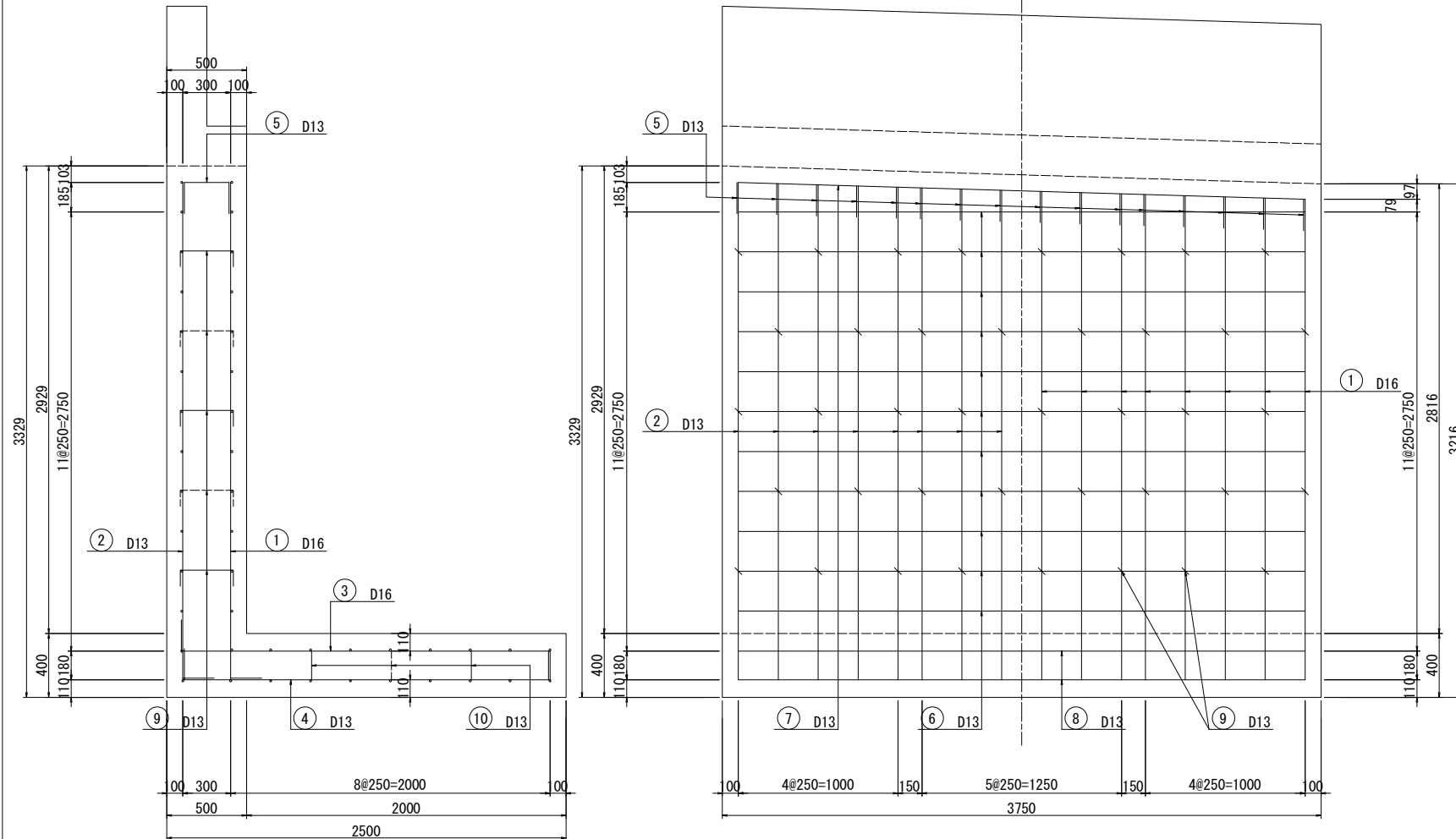
BAR ARRANGEMENT OF L TYPE RETAINING WALL(4) S=1:40

WALL (1) L-1 · R-1

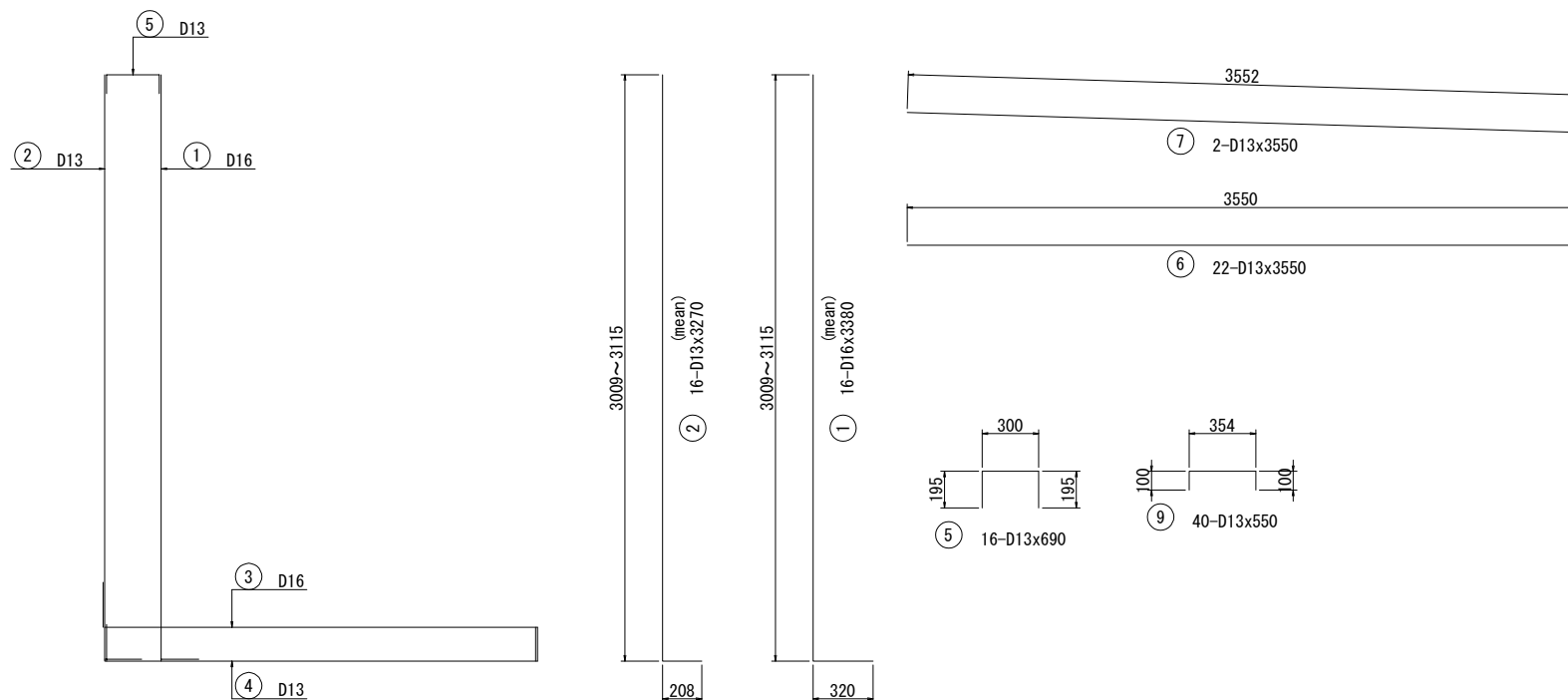
BREST WALL

FRONT SIDE REAR SIDE

SECTION



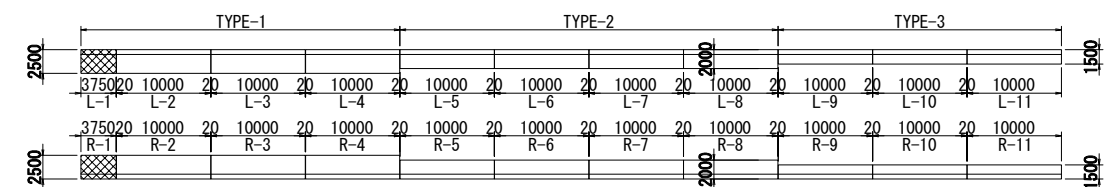
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D16	3380	16	1.56	5.27	84	L (mean)
2	D13	3270	16	0.995	3.25	52	L (mean)
3	D16	2720	16	1.56	4.24	68	L
4	D13	2680	16	0.995	2.67	43	L
5	D13	690	16	0.995	0.69	11	L
6	D13	3550	22	0.995	3.53	78	L
7	D13	3550	2	0.995	3.53	7	L
8	D13	3550	20	0.995	3.53	71	L
9	D13	550	40	0.995	0.55	22	L
10	D13	1150	11	0.995	1.14	13	L
						449	
						D13	297 kg
						D16	152 kg
						total	449 kg

KEY PLAN



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA	橋 馨	29 Sep.2017
CHECKED BY	T. HAYAKAWA	平川 知平	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

DRAWING TITLE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(4)

PACKAGE
3
DWG No.
P3-RD-4250

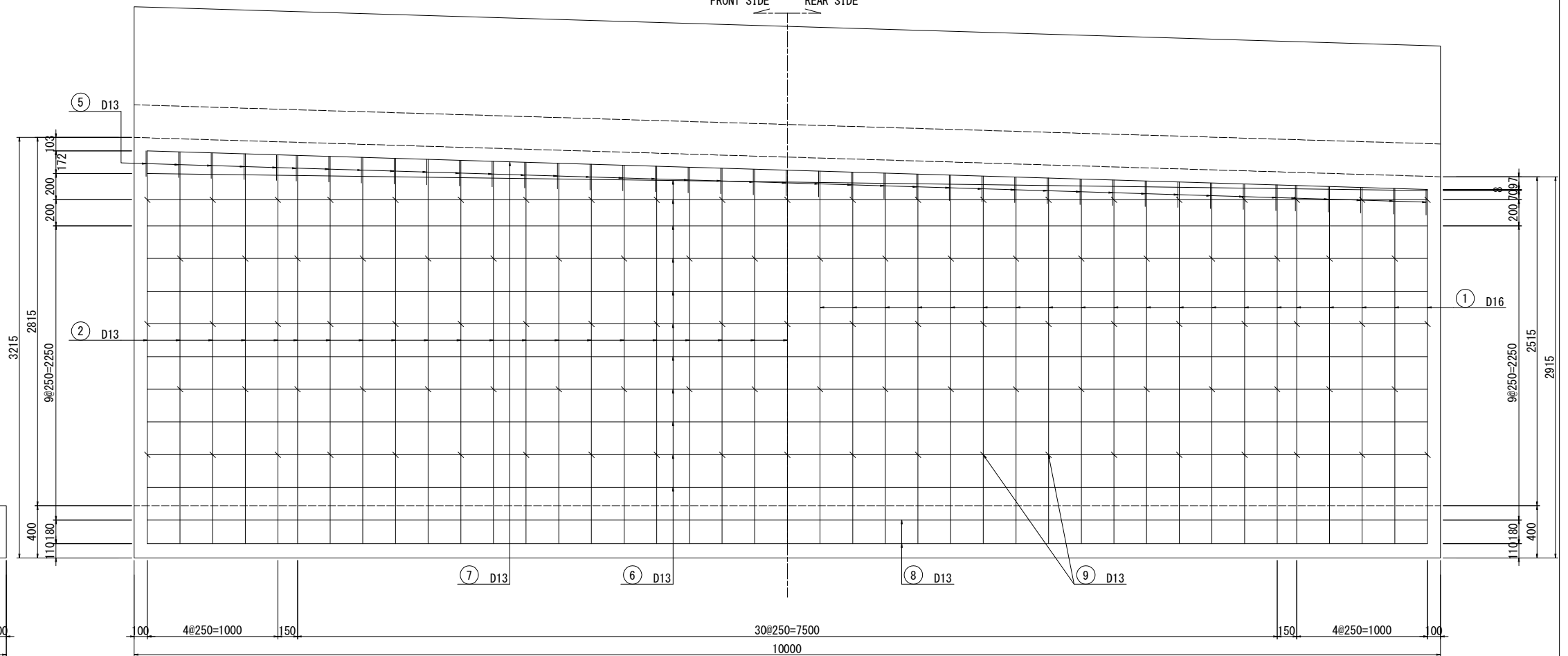
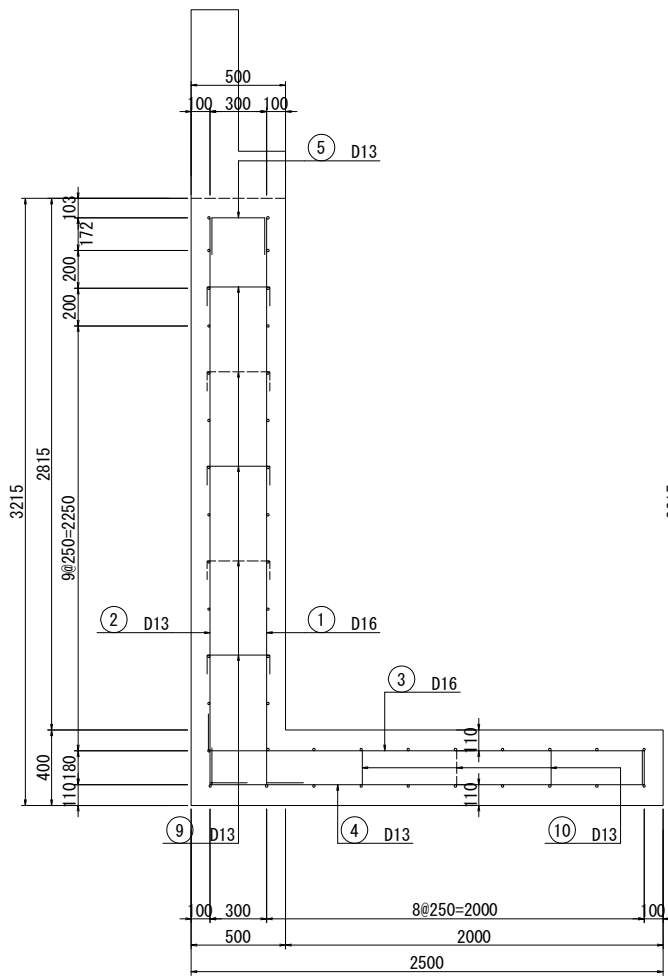
BAR ARRANGEMENT OF L TYPE RETAINING WALL(5) S=1:40

WALL (2) L-2 · R-2

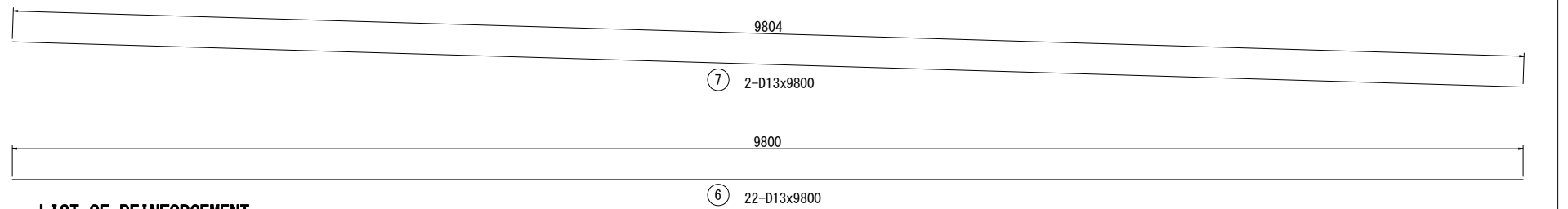
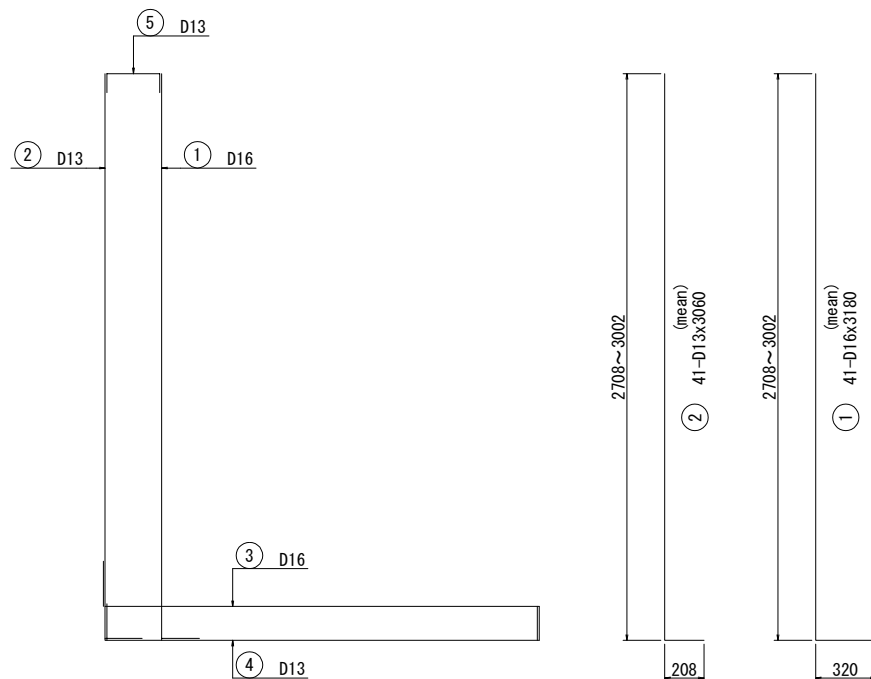
BREAST WALL

FRONT SIDE REAR SIDE

SECTION

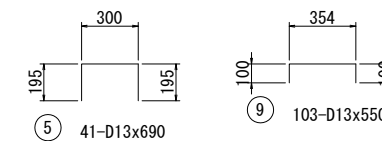


BAR ASSEMBLING

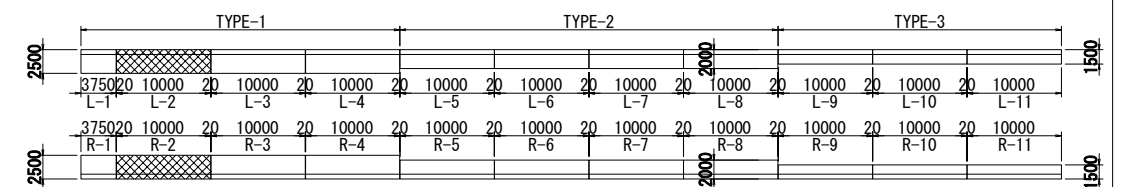


LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D16	3180	41	1.56	4.96	203	L (mean)
2	D13	3060	41	0.995	3.04	125	L (mean)
3	D16	2720	41	1.56	4.24	174	L
4	D13	2680	41	0.995	2.67	109	L
5	D13	690	41	0.995	0.69	28	L
6	D13	9800	22	0.995	9.75	215	L
7	D13	9800	2	0.995	9.75	20	L
8	D13	9800	20	0.995	9.75	195	L
9	D13	550	103	0.995	0.55	57	L
10	D13	1150	30	0.995	1.14	34	L
						1160	
						D13	783 kg
						D16	377 kg
						total	1160 kg



KEY PLAN



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
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JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA	橋 馨	29 Sep.2017
CHECKED BY	T. HAYAKAWA	平川 知平	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(5)	3
	DWG No.
	P3-RD-4260

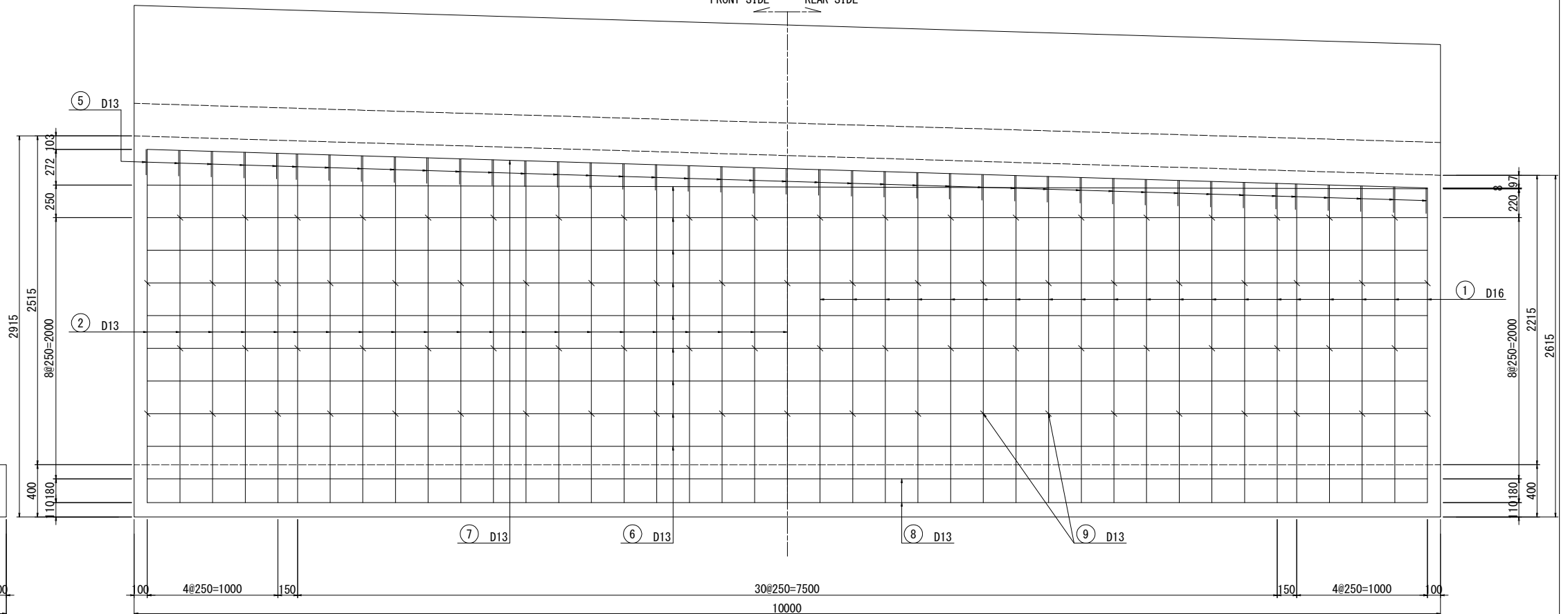
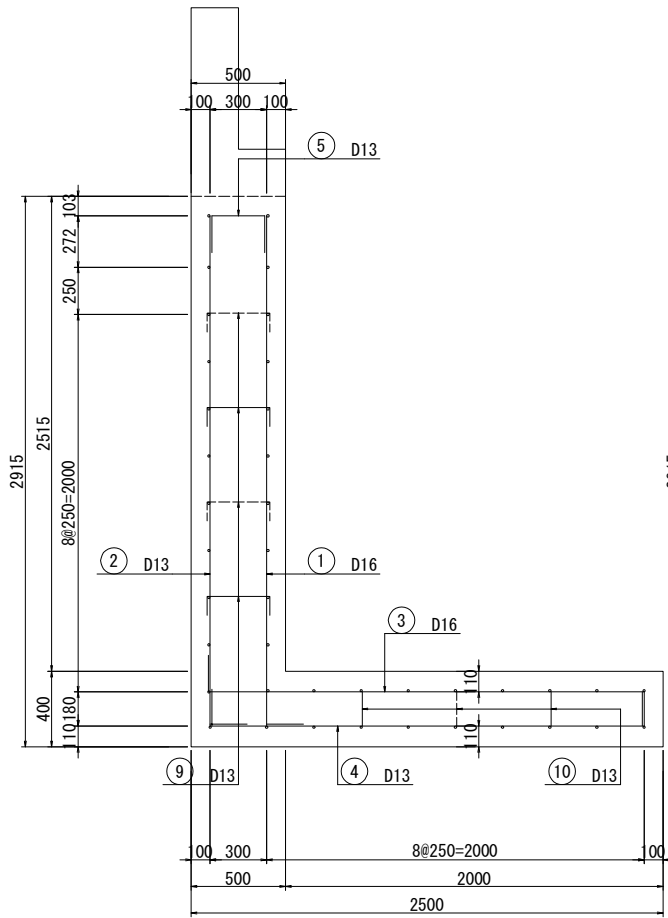
BAR ARRANGEMENT OF L TYPE RETAINING WALL(6) S=1:40

WALL (3) L-3 · R-3

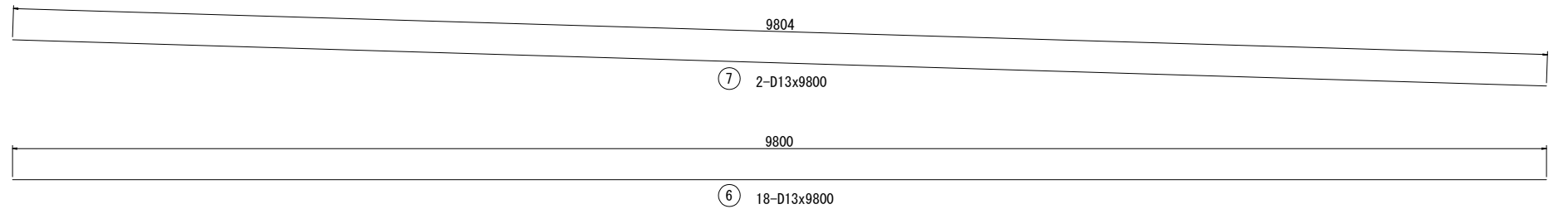
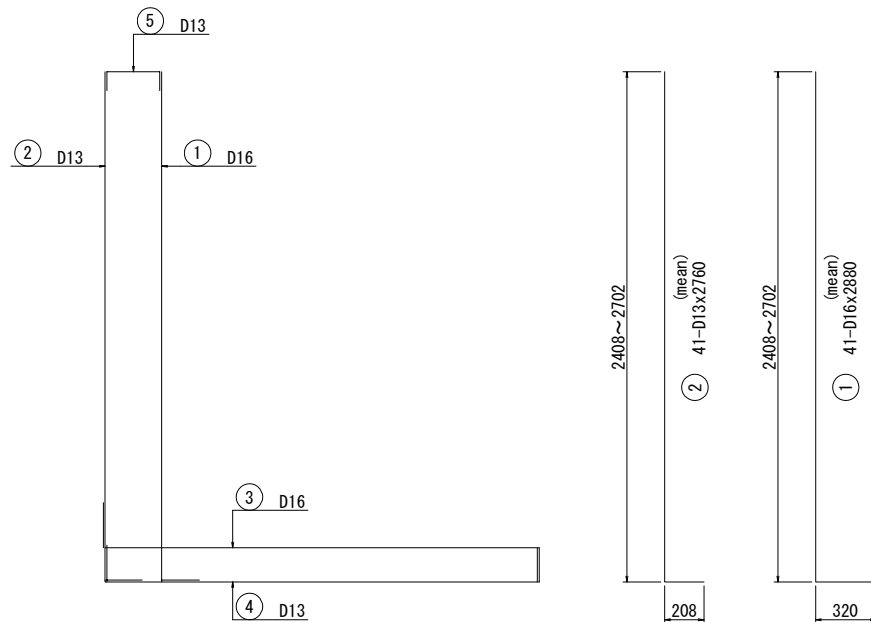
BREST WALL

FRONT SIDE REAR SIDE

SECTION

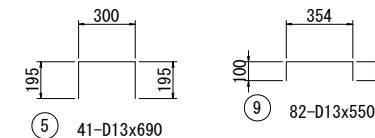


BAR ASSEMBLING

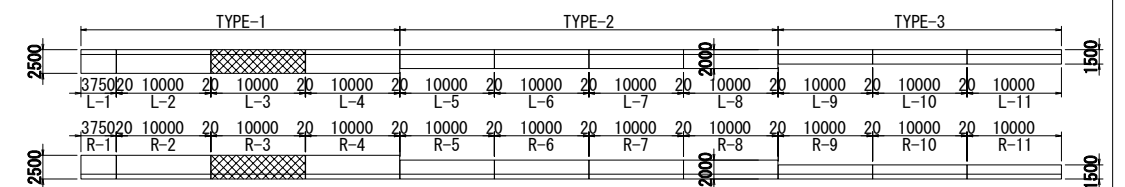


LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D16	2880	41	1.56	4.49	184	L (mean)
2	D13	2760	41	0.995	2.75	113	L (mean)
3	D16	2720	41	1.56	4.24	174	L
4	D13	2680	41	0.995	2.67	109	L
5	D13	690	41	0.995	0.69	28	L
6	D13	9800	18	0.995	9.75	176	L
7	D13	9800	2	0.995	9.75	20	L
8	D13	9800	20	0.995	9.75	195	L
9	D13	550	82	0.995	0.55	45	L
10	D13	1150	30	0.995	1.14	34	L
						1078	
						D13	720 kg
						D16	358 kg
						total	1078 kg



KEY PLAN



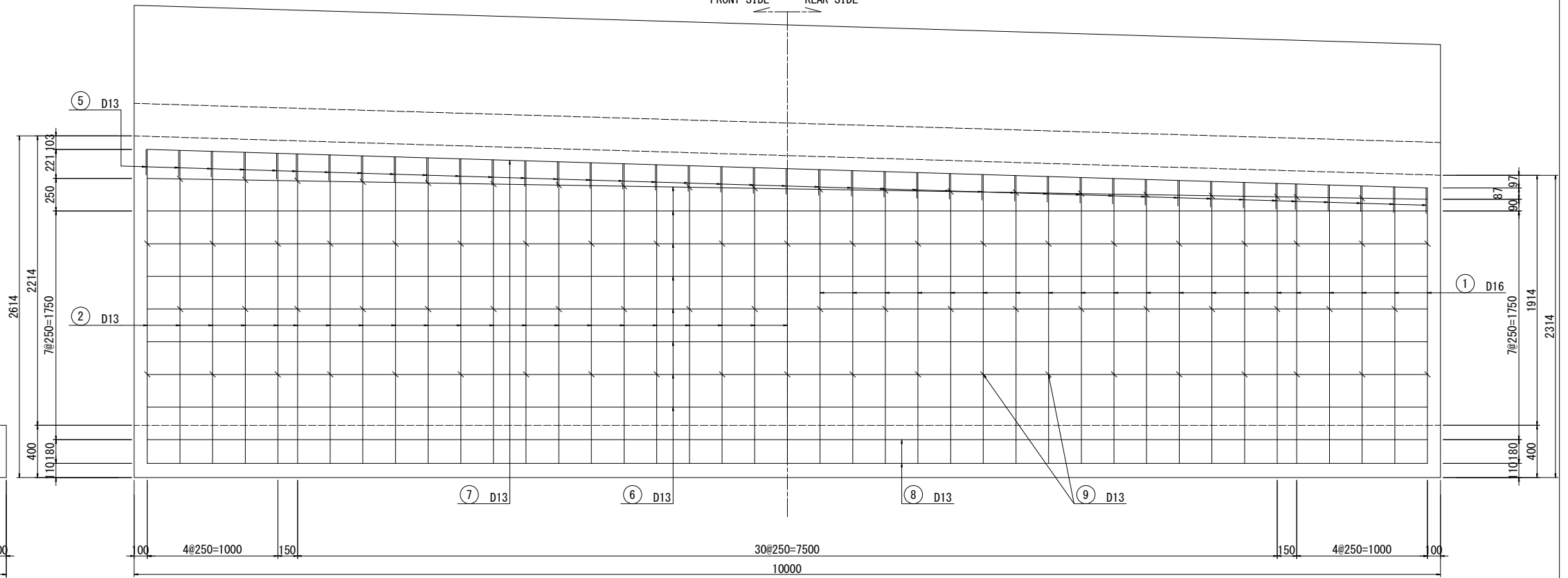
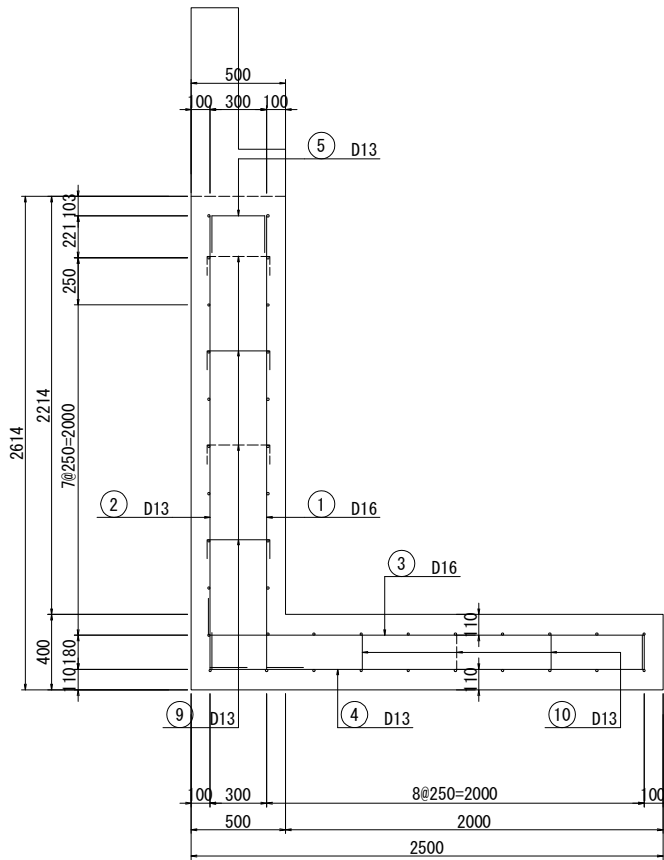
BAR ARRANGEMENT OF L TYPE RETAINING WALL(7) S=1:40

WALL (4) L-4 · R-4

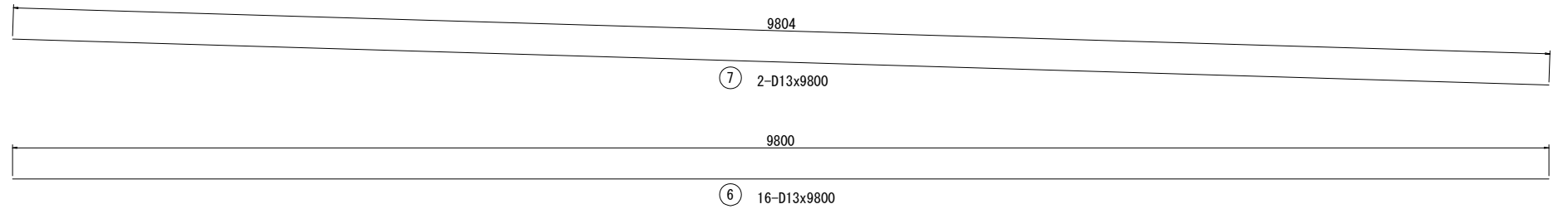
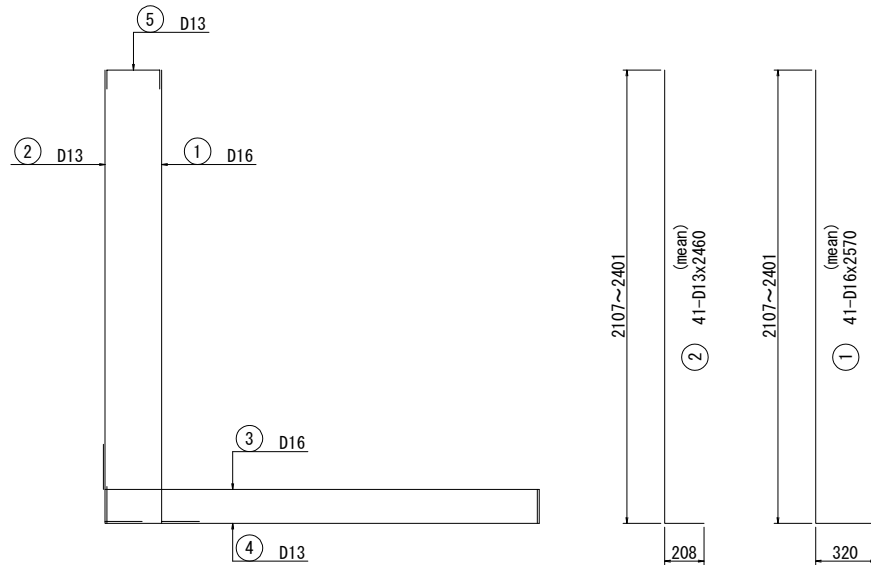
BREST WALL

FRONT SIDE REAR SIDE

SECTION

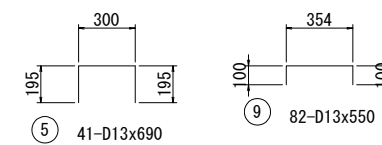


BAR ASSEMBLING

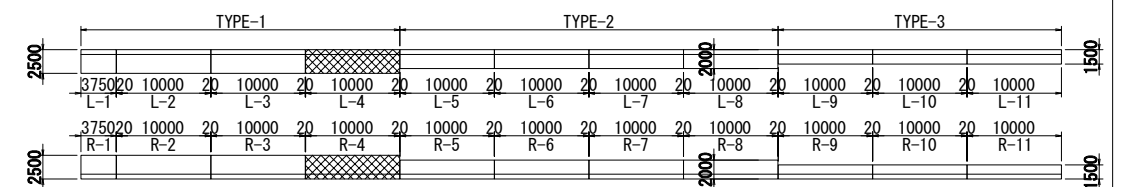


LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D16	2570	41	1.56	4.01	164	L (mean)
2	D13	2460	41	0.995	2.45	100	L (mean)
3	D16	2720	41	1.56	4.24	174	L
4	D13	2680	41	0.995	2.67	109	L
5	D13	690	41	0.995	0.69	28	L
6	D13	9800	16	0.995	9.75	156	L
7	D13	9800	2	0.995	9.75	20	L
8	D13	9800	20	0.995	9.75	195	L
9	D13	550	82	0.995	0.55	45	L
10	D13	1150	30	0.995	1.14	34	L
						1025	
						D13	687 kg
						D16	338 kg
						total	1025 kg



KEY PLAN



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA	橋 馨	29 Sep.2017
CHECKED BY	T. HAYAKAWA	平川 知平	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

DRAWING TITLE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(7)

PACKAGE
3
DWG No.
P3-RD-4280

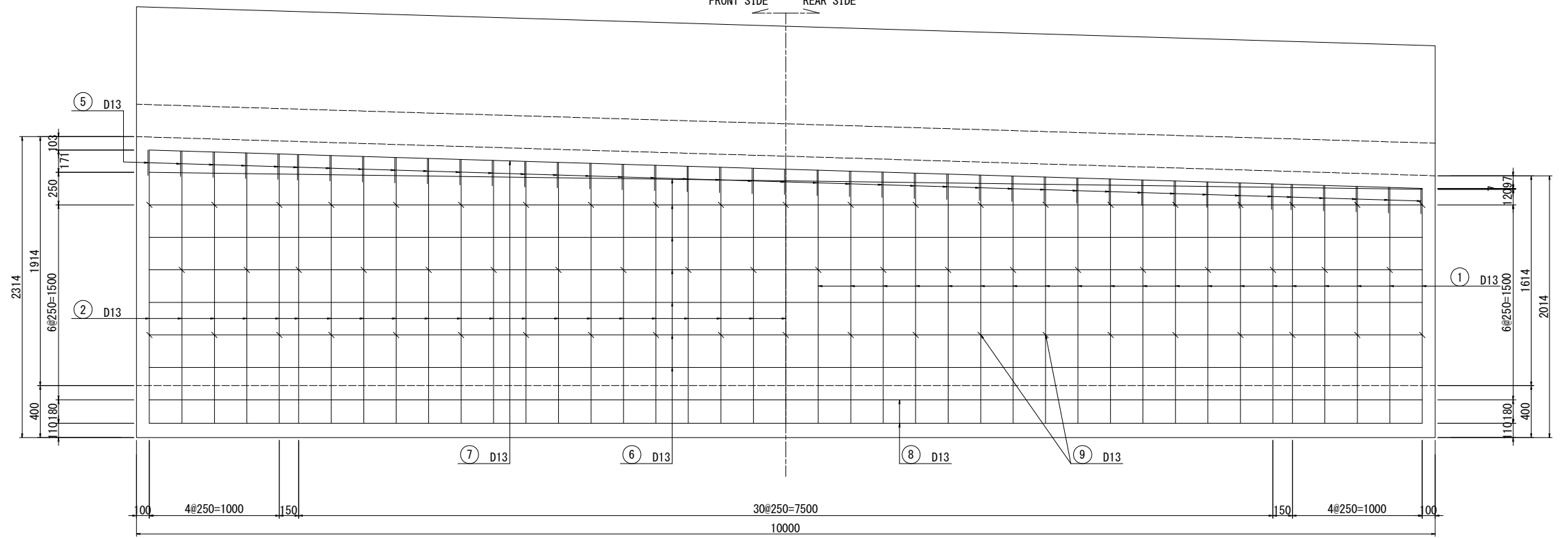
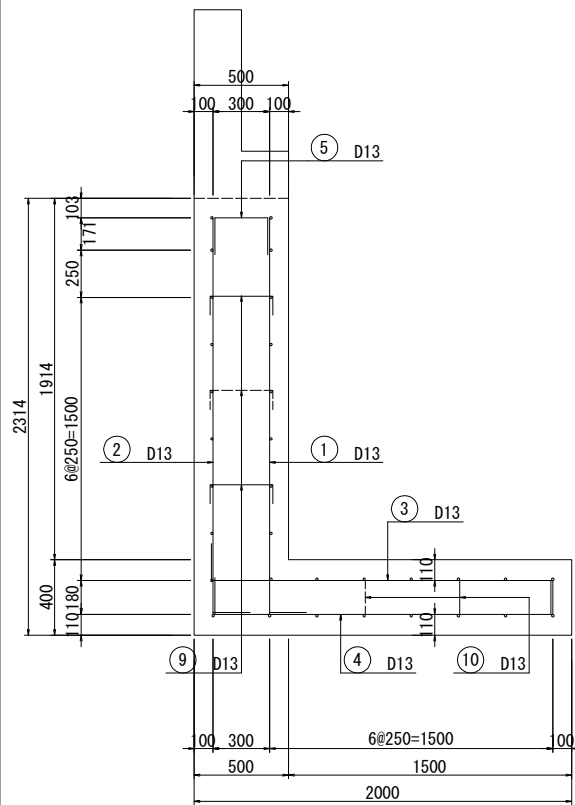
BAR ARRANGEMENT OF L TYPE RETAINING WALL(8) S=1:40

WALL (5) L-5 · R-5

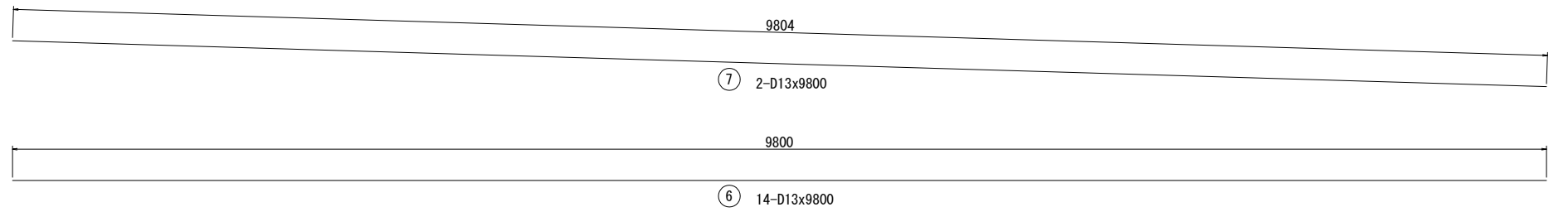
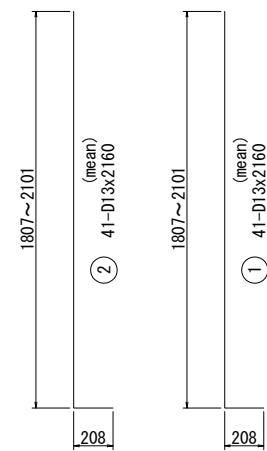
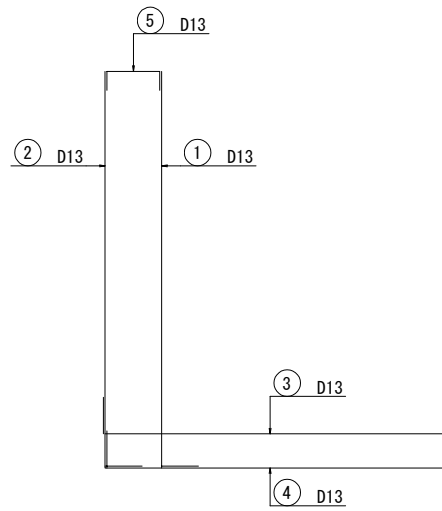
BREST WALL

FRONT SIDE REAR SIDE

SECTION

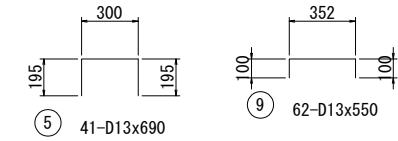


BAR ASSEMBLING

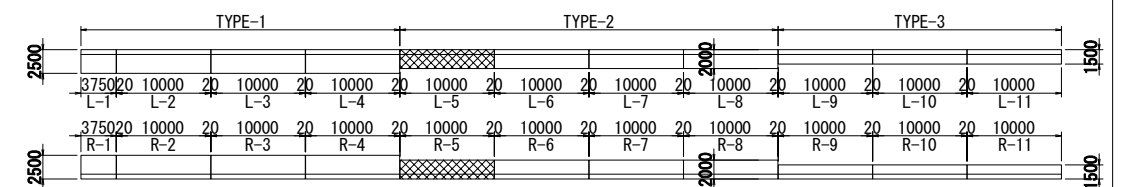


LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D13	2160	41	0.995	2.15	88	L (mean)
2	D13	2160	41	0.995	2.15	88	L (mean)
3	D13	2180	41	0.995	2.17	89	L
4	D13	2180	41	0.995	2.17	89	L
5	D13	690	41	0.995	0.69	28	L
6	D13	9800	14	0.995	9.75	137	—
7	D13	9800	2	0.995	9.75	20	—
8	D13	9800	16	0.995	9.75	156	—
9	D13	550	62	0.995	0.55	34	—
10	D13	1140	20	0.995	1.13	23	—
						752	
						D13	752 kg
						total	752 kg



KEY PLAN



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NIPPON ENGINEERING CONSULTANTS CO., LTD.

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PREPARED BY	K. TACHIBANA	橋 馨	29 Sep.2017
CHECKED BY	T. HAYAKAWA	平川 知平	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(8)	3
	DWG No.
	P3-RD-4290

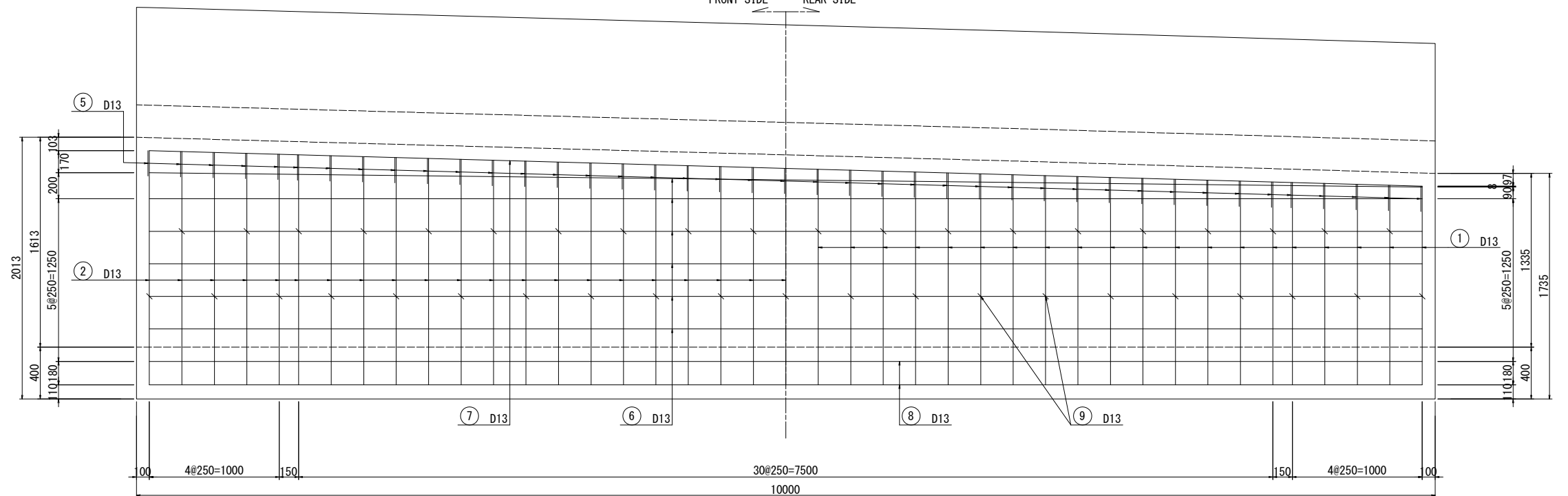
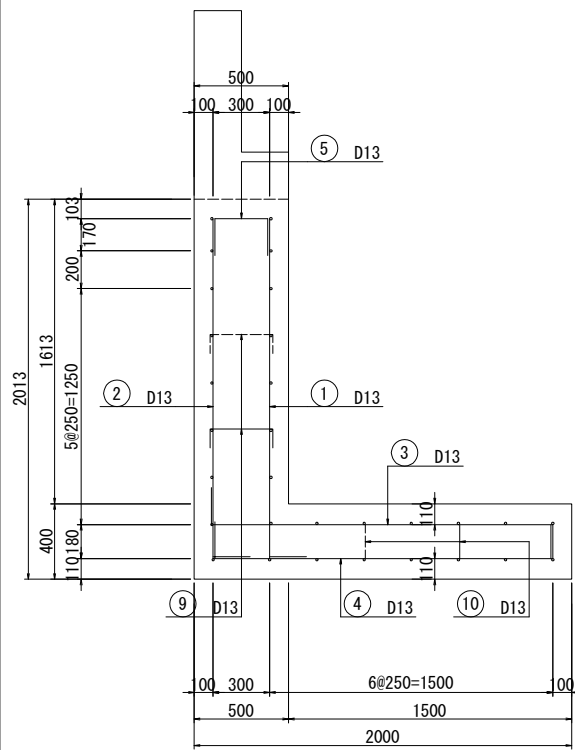
BAR ARRANGEMENT OF L TYPE RETAINING WALL(9) S=1:40

WALL (6) L-6 · R-6

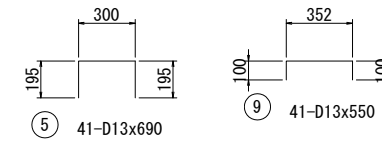
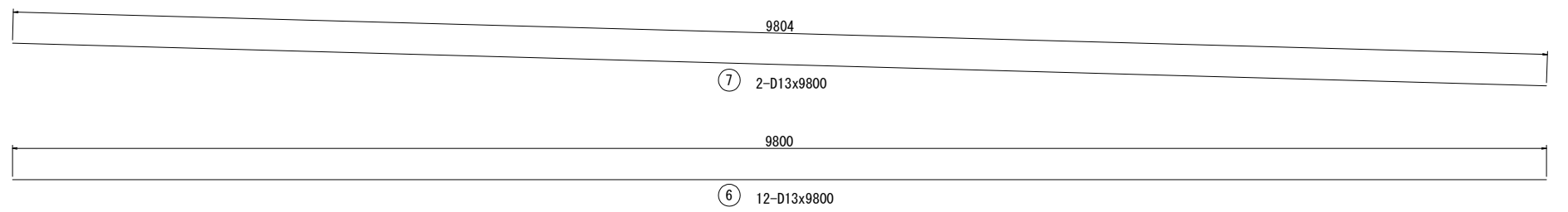
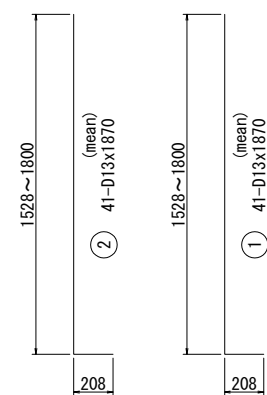
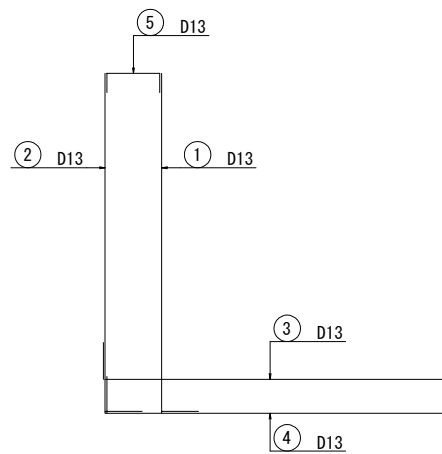
BREST WALL

FRONT SIDE REAR SIDE

SECTION



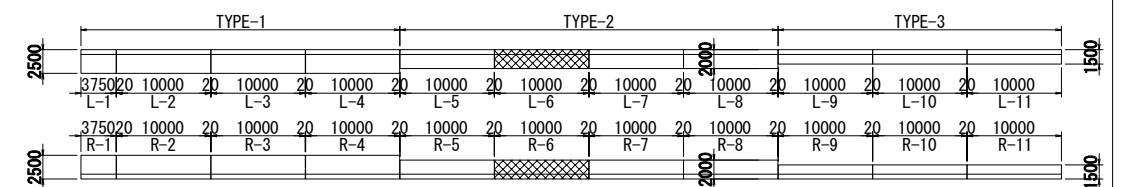
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	PIANETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D13	1870	41	0.995	1.86	76	L (mean)
2	D13	1870	41	0.995	1.86	76	L (mean)
3	D13	2180	41	0.995	2.17	89	L
4	D13	2180	41	0.995	2.17	89	L
5	D13	690	41	0.995	0.69	28	┌
6	D13	9800	12	0.995	9.75	117	—
7	D13	9800	2	0.995	9.75	20	—
8	D13	9800	16	0.995	9.75	156	—
9	D13	550	41	0.995	0.55	23	┌
10	D13	1140	20	0.995	1.13	23	┐
						697	
						D13	697 kg
						total	697 kg

KEY PLAN



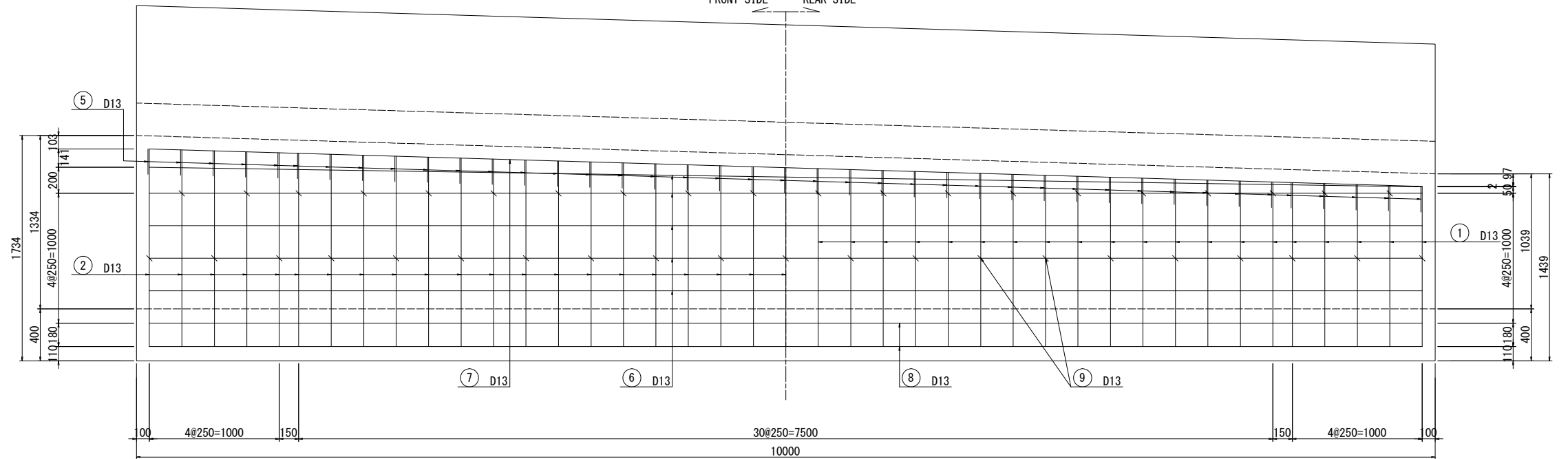
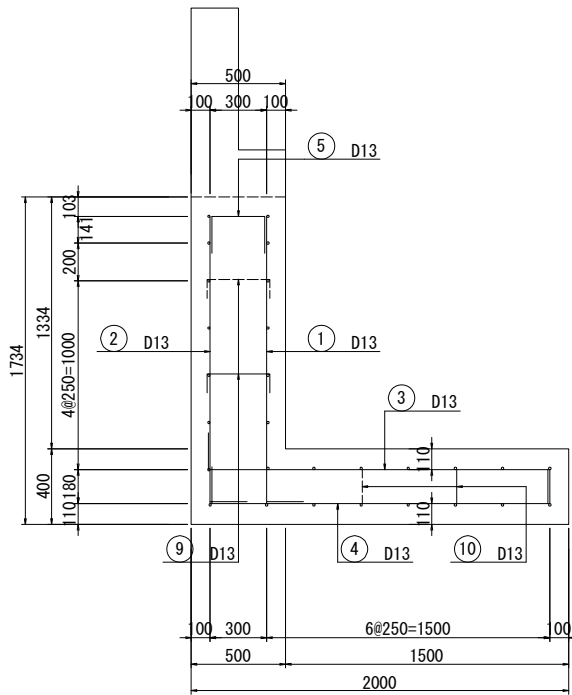
BAR ARRANGEMENT OF L TYPE RETAINING WALL(10) S=1:40

WALL (7) L-7 · R-7

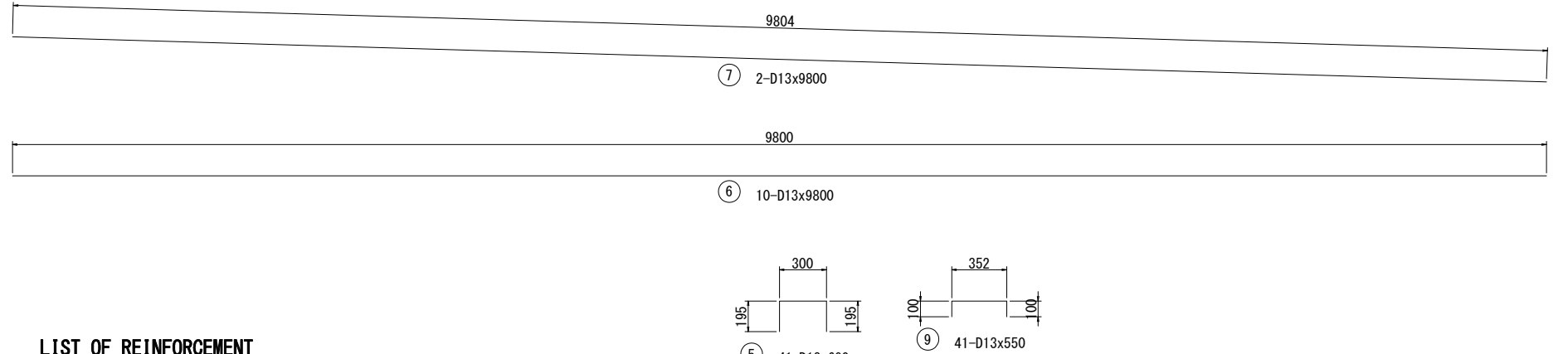
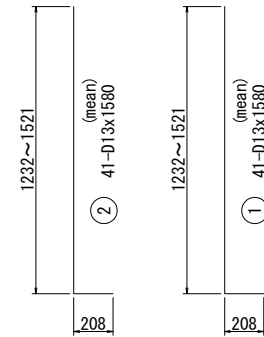
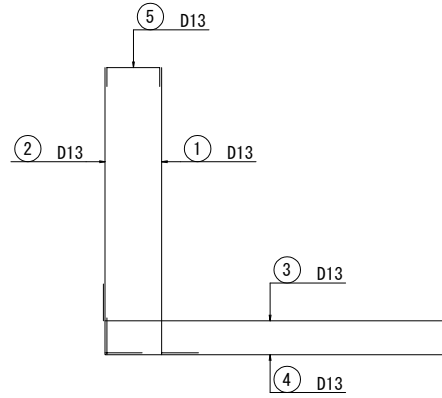
BREST WALL

FRONT SIDE REAR SIDE

SECTION



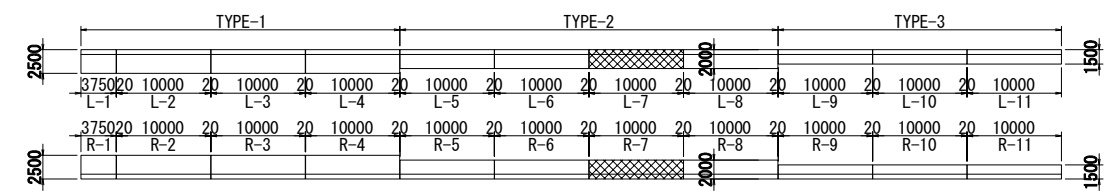
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D13	1580	41	0.995	1.57	64	L (mean)
2	D13	1580	41	0.995	1.57	64	L (mean)
3	D13	2180	41	0.995	2.17	89	L
4	D13	2180	41	0.995	2.17	89	L
5	D13	690	41	0.995	0.69	28	┌
6	D13	9800	10	0.995	9.75	98	—
7	D13	9800	2	0.995	9.75	20	—
8	D13	9800	16	0.995	9.75	156	—
9	D13	550	41	0.995	0.55	23	└
10	D13	1140	20	0.995	1.13	23	┘
						654	
						D13	654 kg
						total	654 kg

KEY PLAN



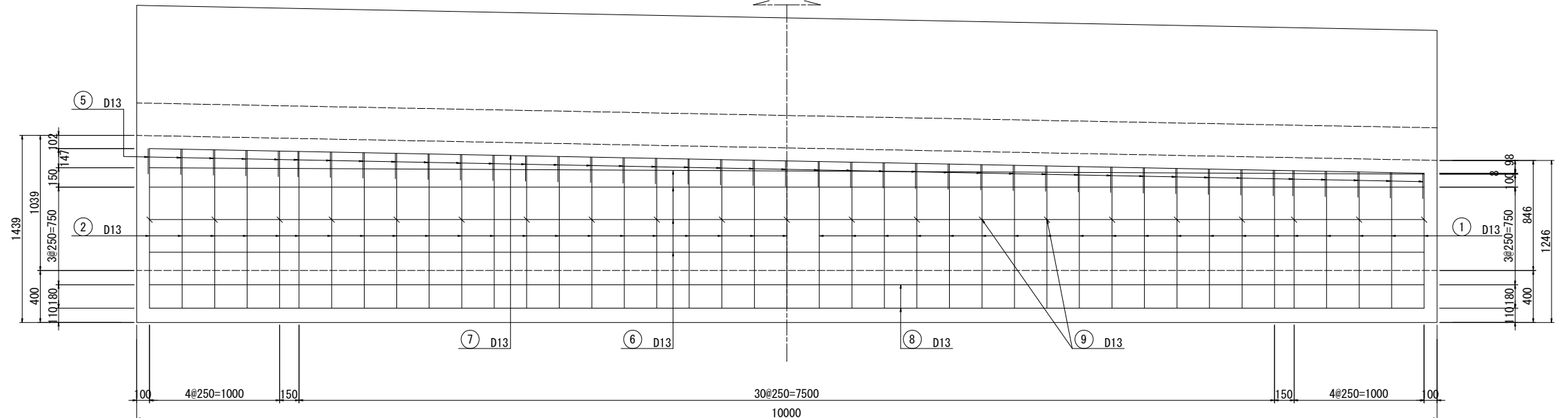
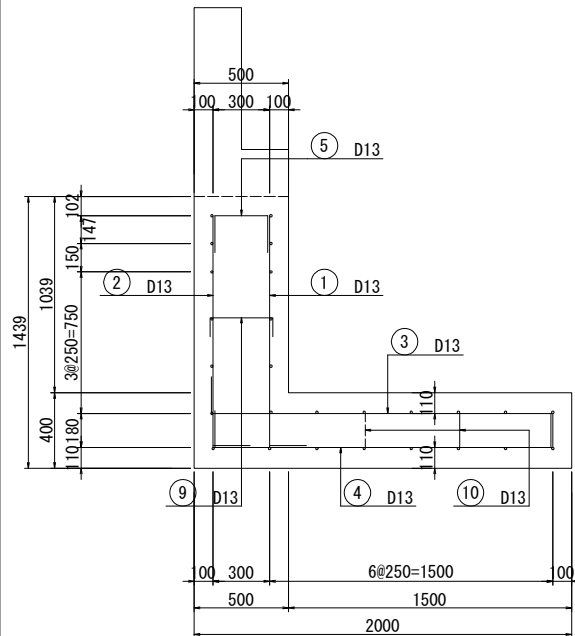
BAR ARRANGEMENT OF L TYPE RETAINING WALL(11) S=1:40

WALL (8) L-8 · R-8

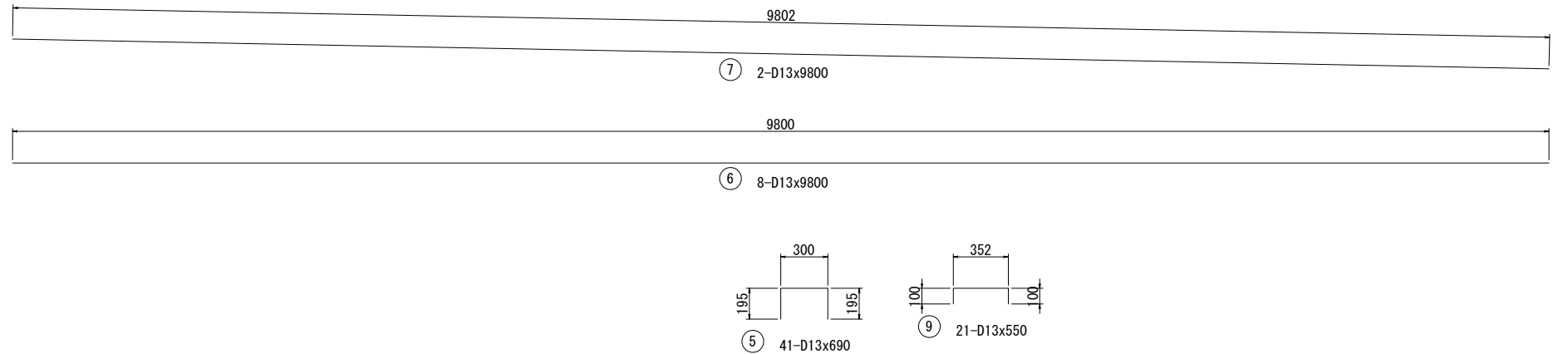
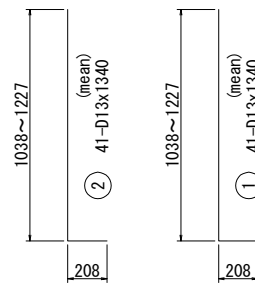
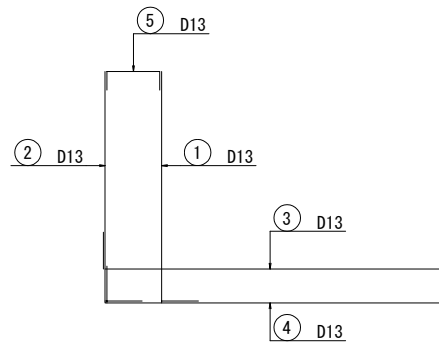
BREST WALL

FRONT SIDE REAR SIDE

SECTION



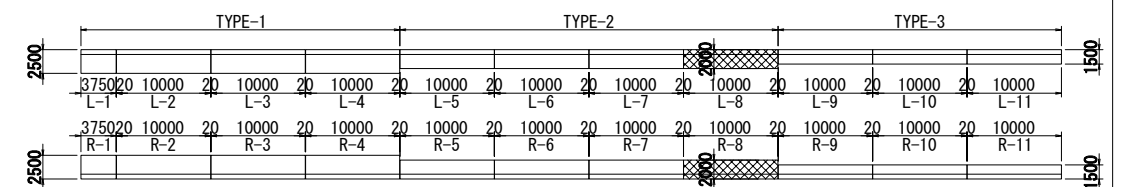
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	PIANETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D13	1340	41	0.995	1.33	55	L (mean)
2	D13	1340	41	0.995	1.33	55	L (mean)
3	D13	2180	41	0.995	2.17	89	L
4	D13	2180	41	0.995	2.17	89	L
5	D13	690	41	0.995	0.69	28	L
6	D13	9800	8	0.995	9.75	78	L
7	D13	9800	2	0.995	9.75	20	L
8	D13	9800	16	0.995	9.75	156	L
9	D13	550	21	0.995	0.55	12	L
10	D13	1140	20	0.995	1.13	23	L
						605	
						D13	605 kg
						total	605 kg

KEY PLAN



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DEPARTMENT OF BRIDGE

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METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA	橋 馨	29 Sep.2017
CHECKED BY	T. HAYAKAWA	平川 知平	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(11)	3
	DWG No.
	P3-RD-4320

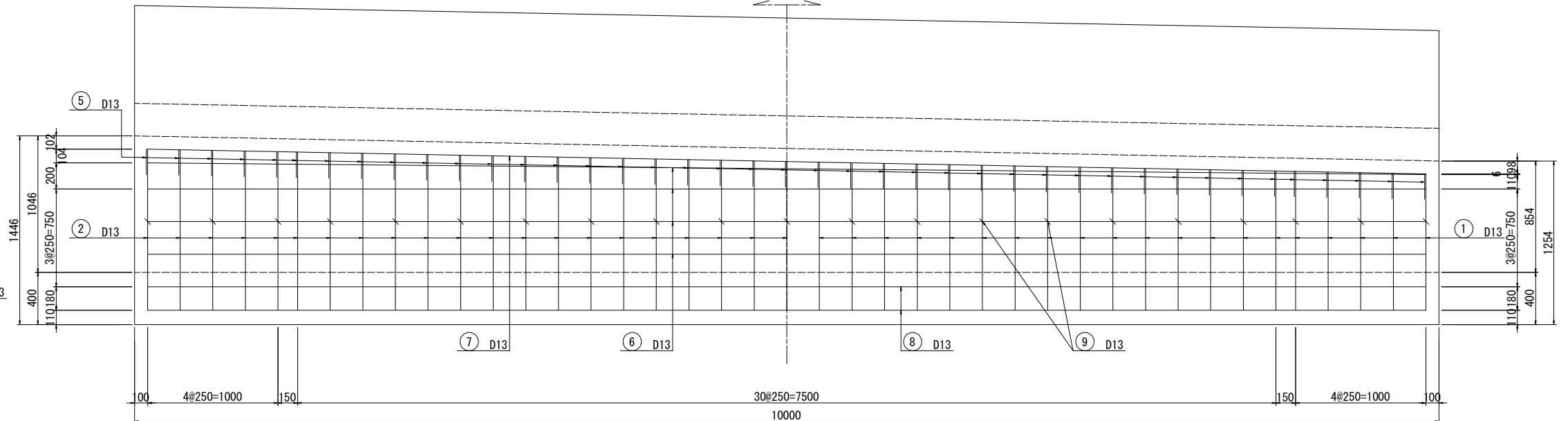
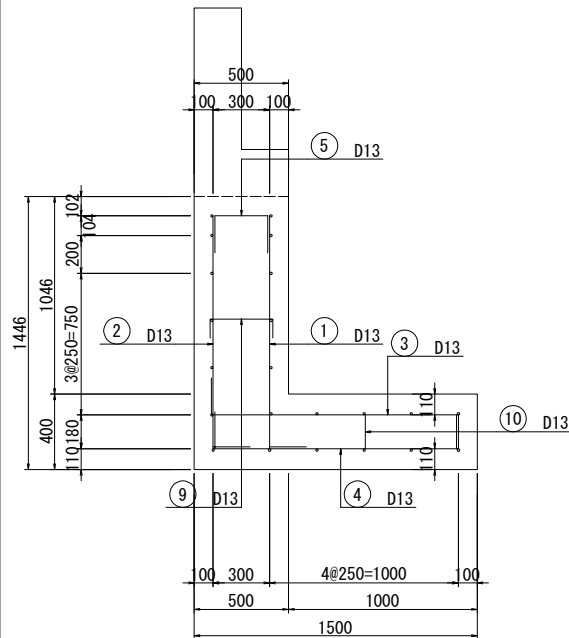
BAR ARRANGEMENT OF L TYPE RETAINING WALL(12) S=1:40

WALL (9) L-9 · R-9

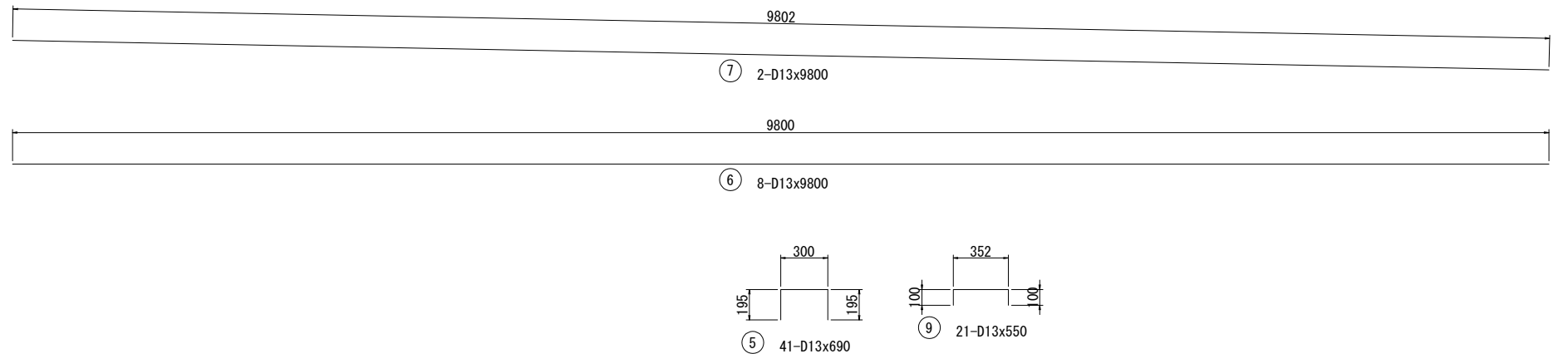
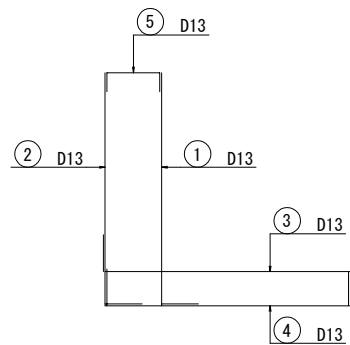
BREST WALL

FRONT SIDE REAR SIDE

SECTION



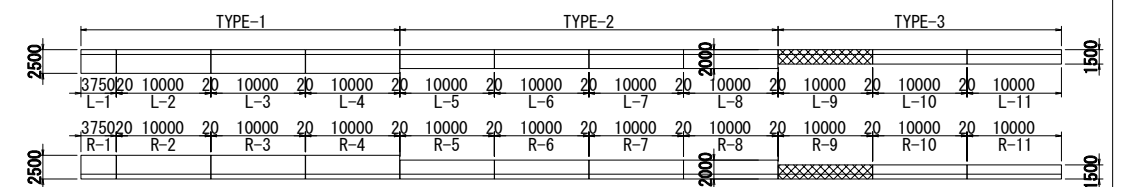
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	PIANETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D13	1350	41	0.995	1.34	55	L (mean)
2	D13	1350	41	0.995	1.34	55	L (mean)
3	D13	1680	41	0.995	1.67	68	L
4	D13	1680	41	0.995	1.67	68	L
5	D13	690	41	0.995	0.69	28	L
6	D13	9800	8	0.995	9.75	78	L
7	D13	9800	2	0.995	9.75	20	L
8	D13	8800	12	0.995	8.76	105	L
9	D13	550	21	0.995	0.55	12	L
10	D13	1140	10	0.995	1.13	11	L
						500	
						D13	500 kg
						total	500 kg

KEY PLAN



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PREPARED BY	K. TACHIBANA	橋 馨	29 Sep.2017
CHECKED BY	T. HAYAKAWA	平川 知子	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

DRAWING TITLE		PACKAGE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(12)		3
		DWG No.
		P3-RD-4330

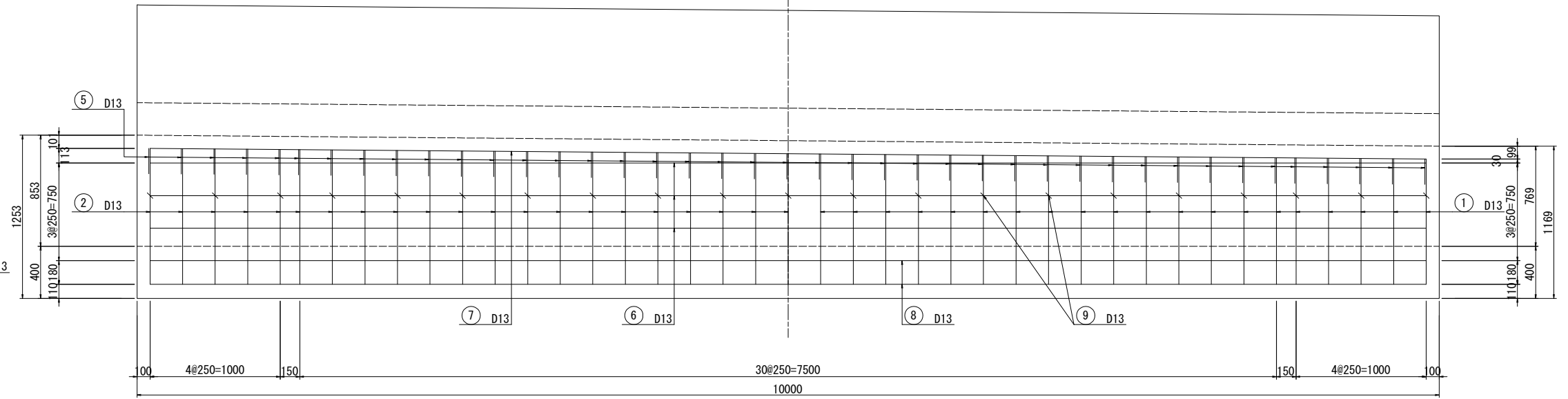
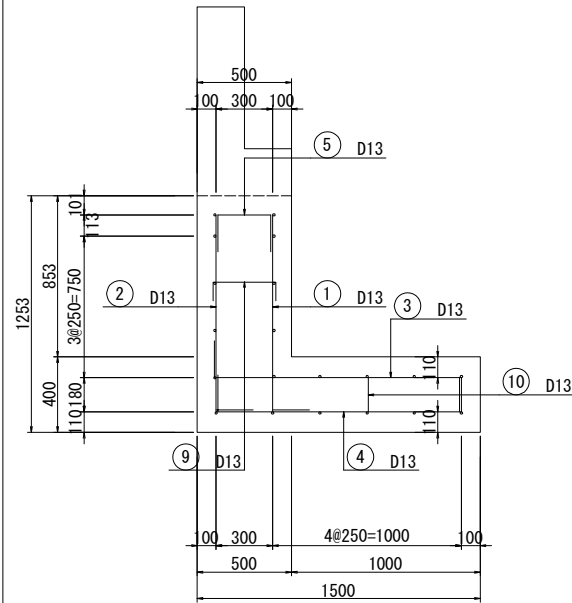
BAR ARRANGEMENT OF L TYPE RETAINING WALL(13) S=1:40

WALL (10) L-10 · R-10

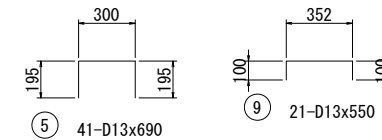
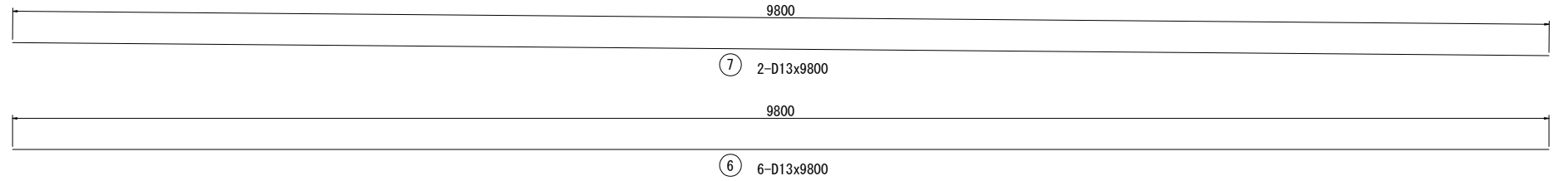
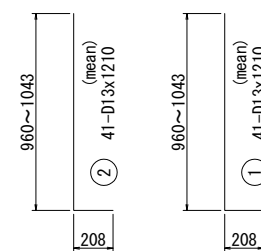
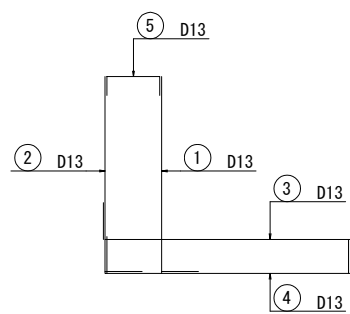
BREST WALL

FRONT SIDE REAR SIDE

SECTION



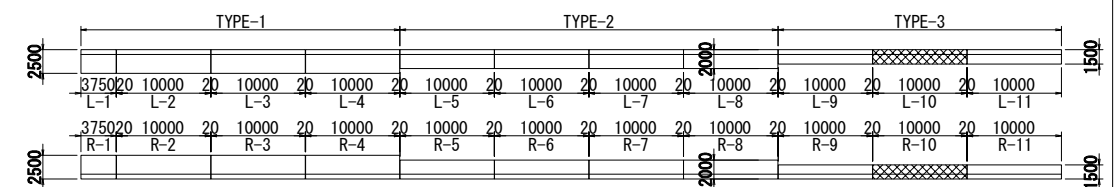
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	DIAMETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D13	1210	41	0.995	1.20	49	(mean)
2	D13	1210	41	0.995	1.20	49	(mean)
3	D13	1680	41	0.995	1.67	68	
4	D13	1680	41	0.995	1.67	68	
5	D13	690	41	0.995	0.69	28	
6	D13	9800	6	0.995	9.75	59	
7	D13	9800	2	0.995	9.75	20	
8	D13	8800	12	0.995	8.76	105	
9	D13	550	21	0.995	0.55	12	
10	D13	1140	10	0.995	1.13	11	
						469	
						D13	469 kg
						total	469 kg

KEY PLAN



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CHECKED BY	T. HAYAKAWA	平川 知平	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(13)	3
	DWG No.
	P3-RD-4340

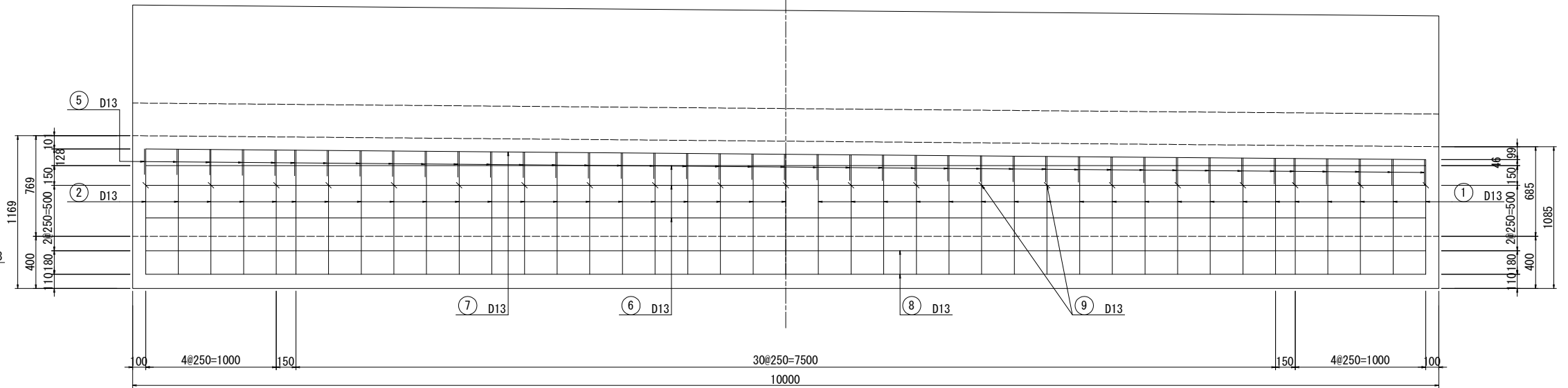
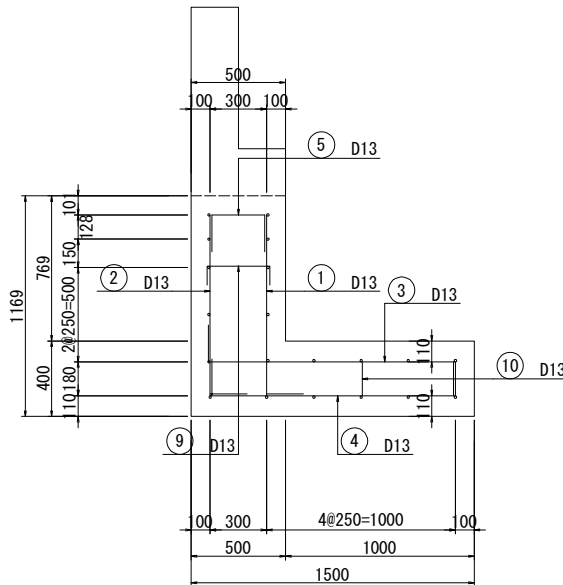
BAR ARRANGEMENT OF L TYPE RETAINING WALL(14) S=1:40

WALL (11) L-11 · R-11

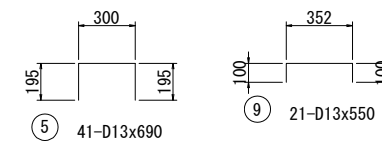
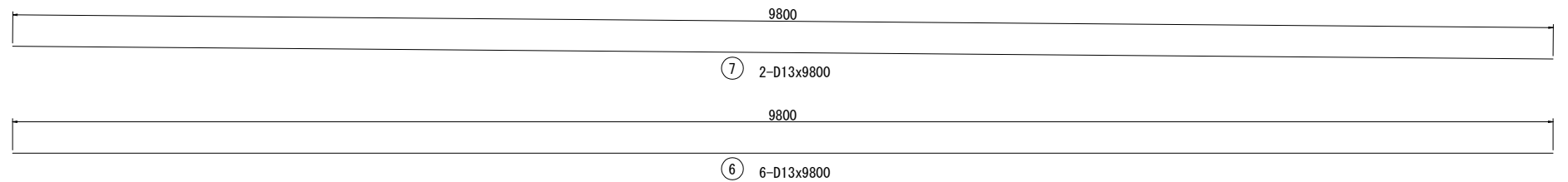
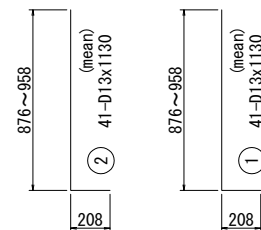
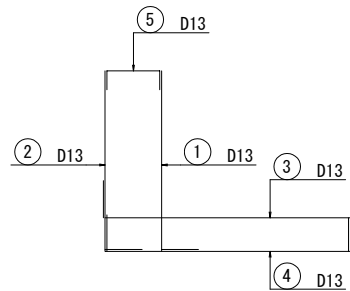
BREST WALL

FRONT SIDE REAR SIDE

SECTION



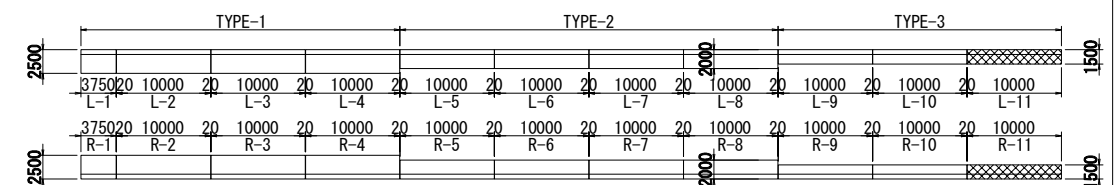
BAR ASSEMBLING



LIST OF REINFORCEMENT

NAME	PIANETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1	D13	1130	41	0.995	1.12	46	L (mean)
2	D13	1130	41	0.995	1.12	46	L (mean)
3	D13	1680	41	0.995	1.67	68	L
4	D13	1680	41	0.995	1.67	68	L
5	D13	690	41	0.995	0.69	28	L
6	D13	9800	6	0.995	9.75	59	L
7	D13	9800	2	0.995	9.75	20	L
8	D13	8800	12	0.995	8.76	105	L
9	D13	550	21	0.995	0.55	12	L
10	D13	1140	10	0.995	1.13	11	L
						463	
						D13	463 kg
						total	463 kg

KEY PLAN



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

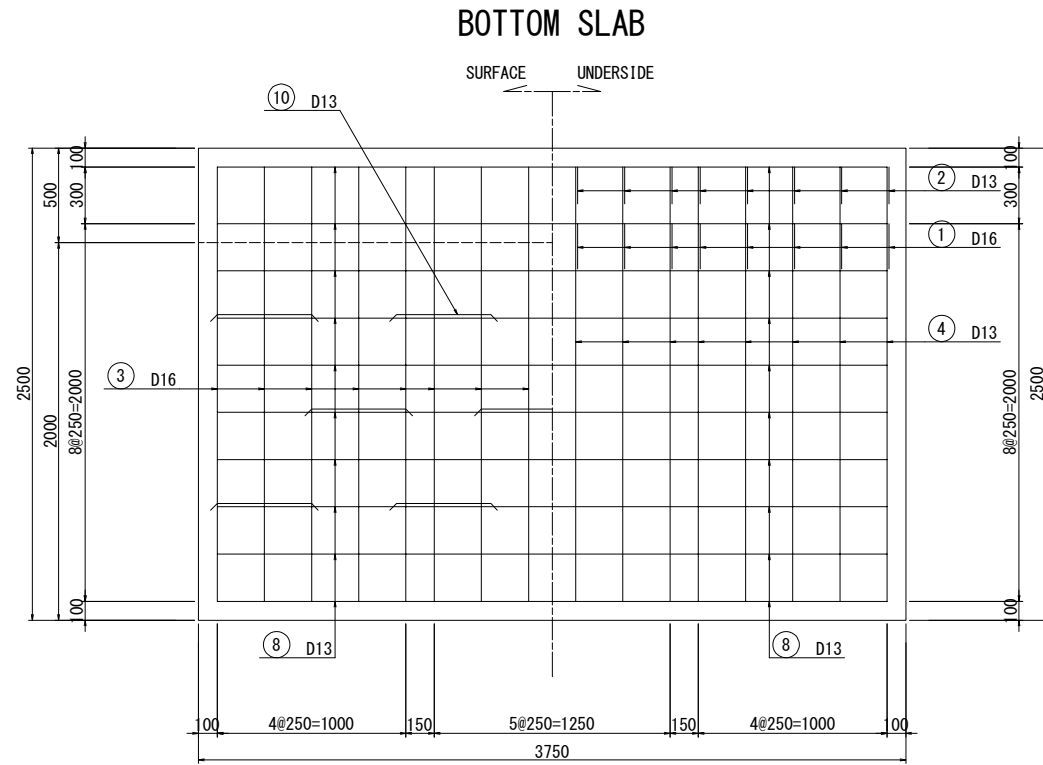
JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA	橋 馨	29 Sep.2017
CHECKED BY	T. HAYAKAWA	平川 知平	3 Oct.2017
APPROVED BY	Y. SANO	佐野 祐一	6 Oct.2017

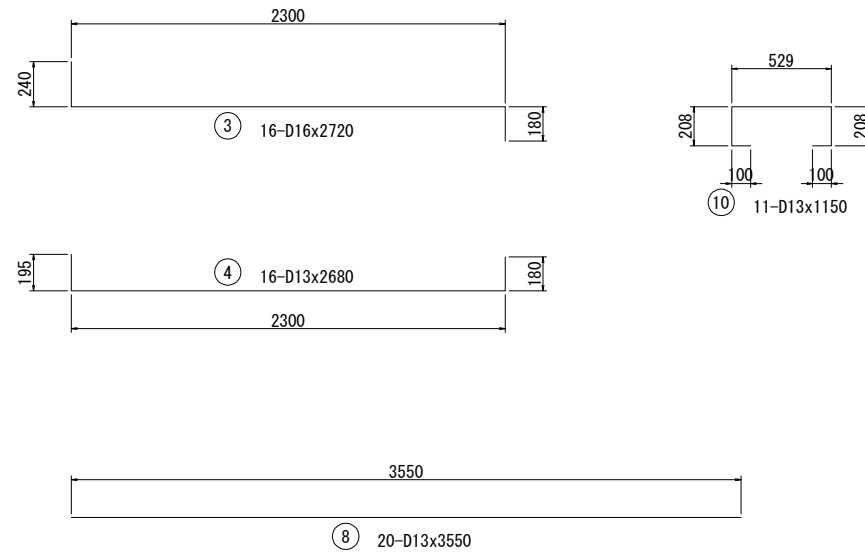
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(14)	3
	DWG No.
	P3-RD-4350

BAR ARRANGEMENT OF L TYPE RETAINING WALL(15) S=1:40

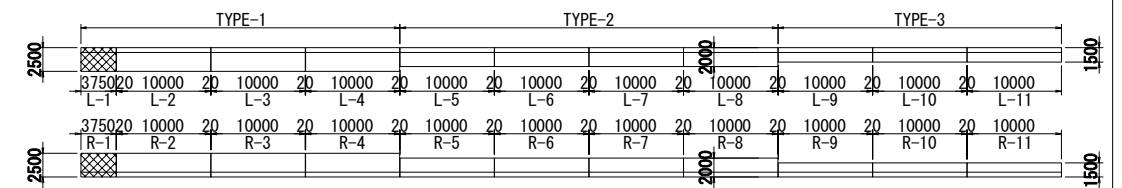
BOTTOM SLAB(1) L-1 · R-1



BAR SCHEDULING



KEY PLAN

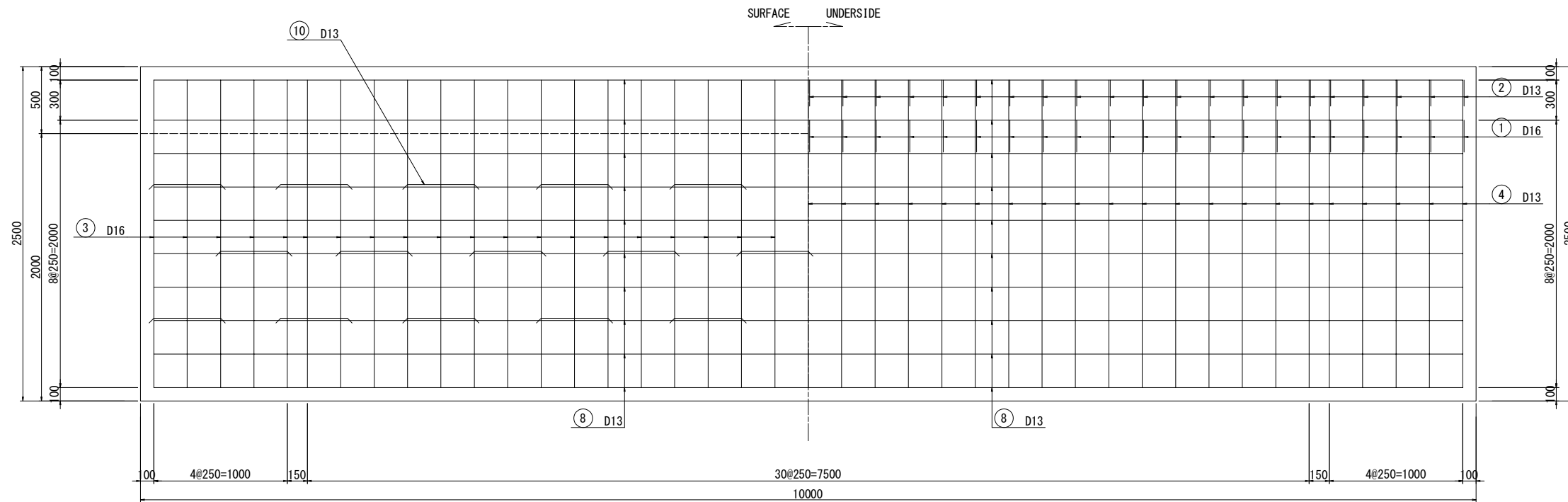


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017
							BAR ARRANGEMENT OF L TYPE RETAINING WALL(15)	3	
								DWG No.	
								P3-RD-4360	

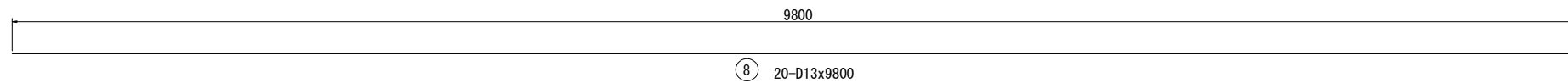
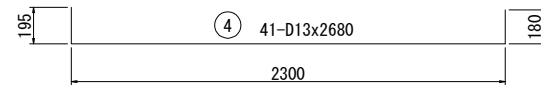
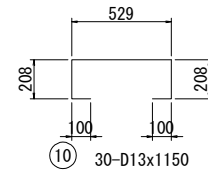
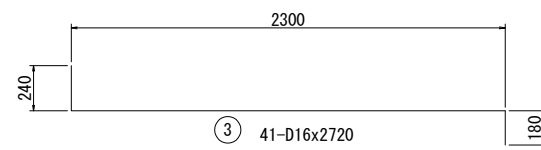
BAR ARRANGEMENT OF L TYPE RETAINING WALL(16) S=1:40

BOTTOM SLAB (2) L-2~4 · R-2~4

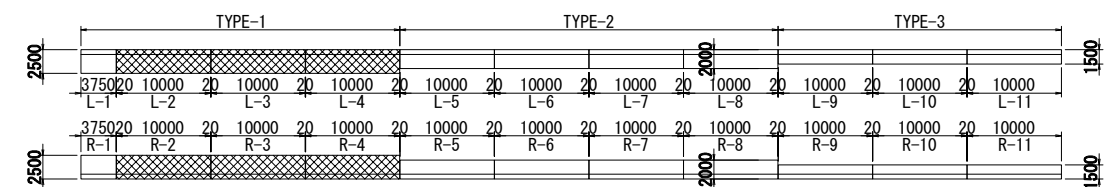
BOTTOM SLAB



BAR SCHEDULING



KEY PLAN



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

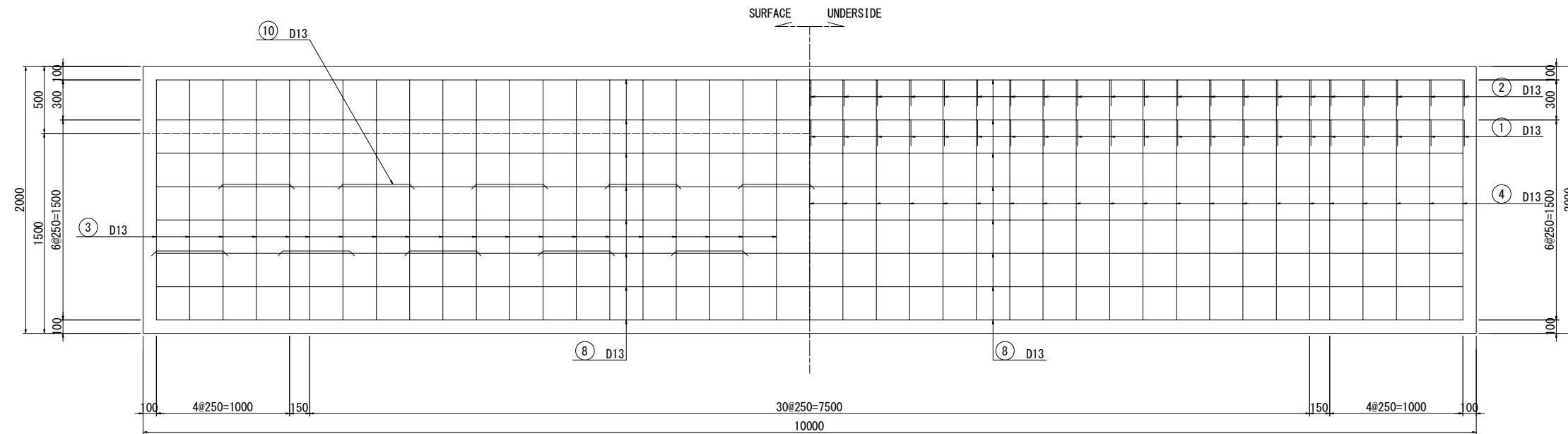
DRAWING TITLE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(16)

PACKAGE
3
DWG No.
P3-RD-4370

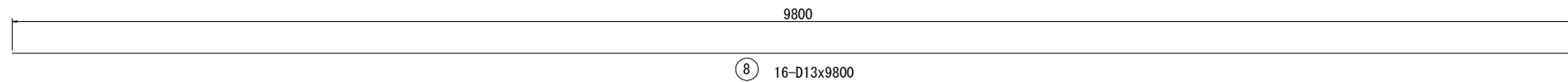
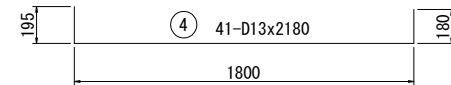
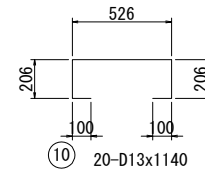
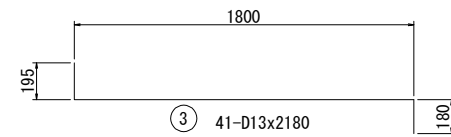
BAR ARRANGEMENT OF L TYPE RETAINING WALL(17) S=1:40

BOTTOM SLAB (3) L-5~8 · R-5~8

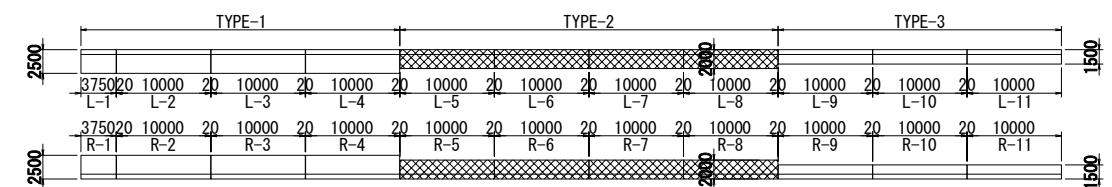
BOTTOM SLAB



BAR SCHEDULING



KEY PLAN

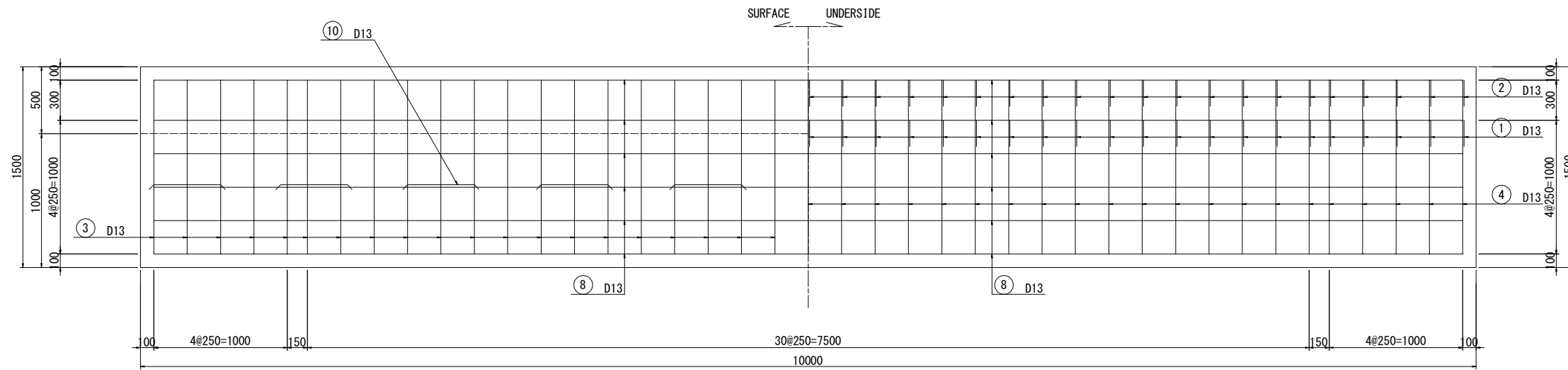


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017
							BAR ARRANGEMENT OF L TYPE RETAINING WALL(17)	3	
								DWG No.	
								P3-RD-4380	

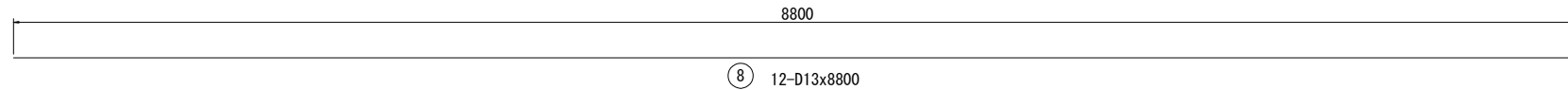
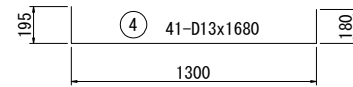
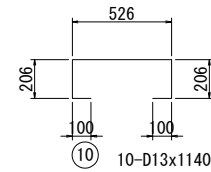
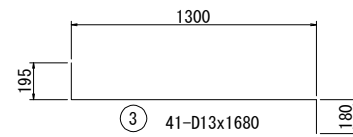
BAR ARRANGEMENT OF L TYPE RETAINING WALL(18) S=1:40

BOTTOM SLAB(4) L-9~11 · R-9~11

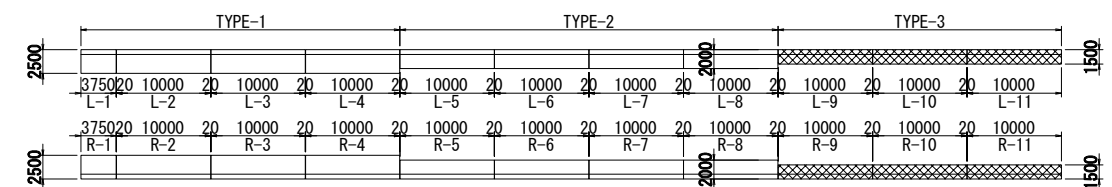
BOTTOM SLAB



BAR SCHEDULING



KEY PLAN



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

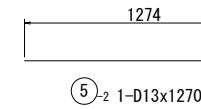
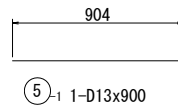
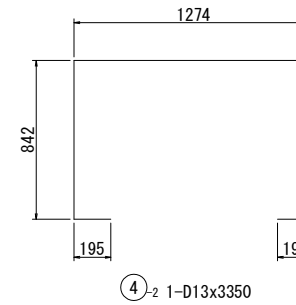
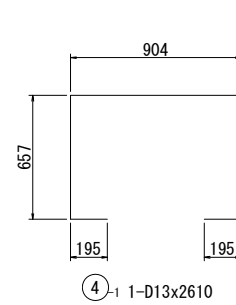
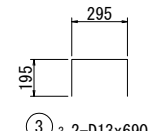
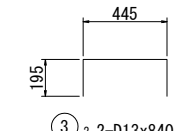
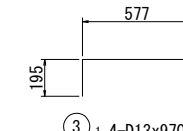
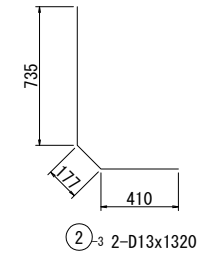
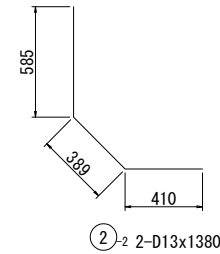
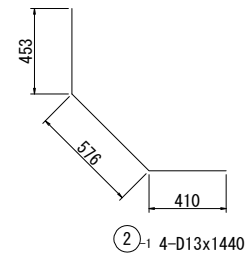
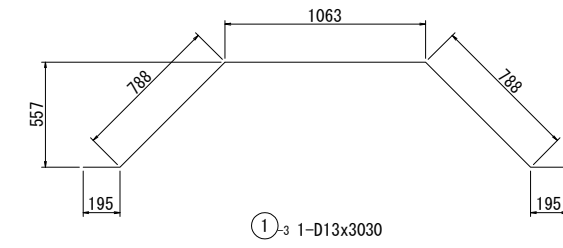
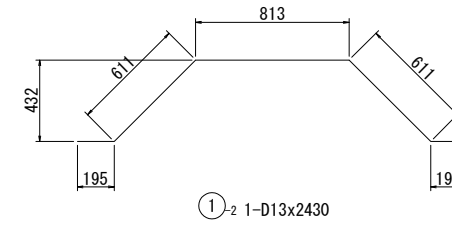
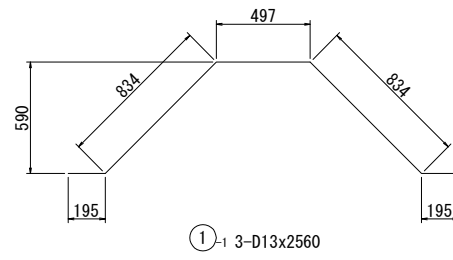
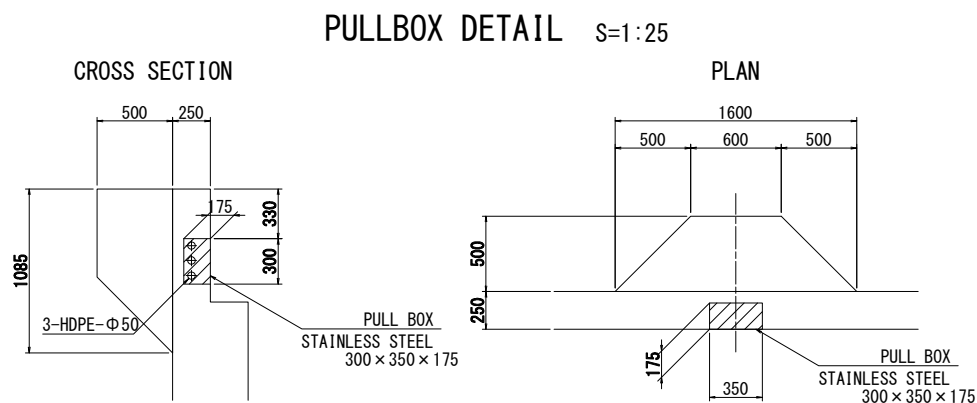
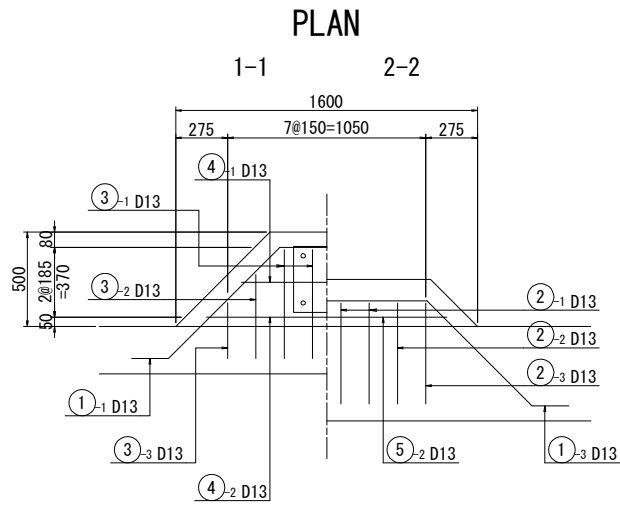
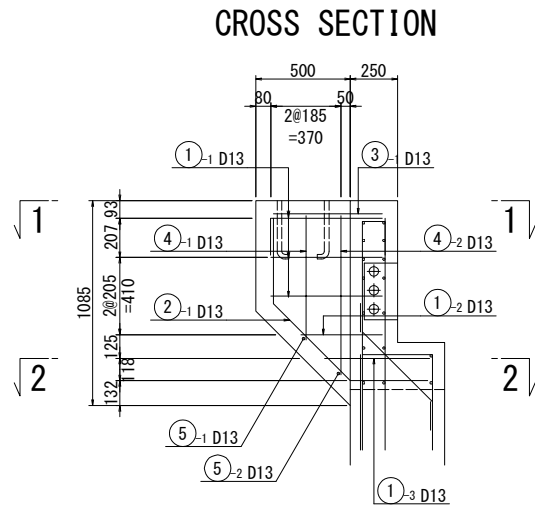
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
BAR ARRANGEMENT OF L TYPE RETAINING WALL(18)

PACKAGE
3
DWG No.
P3-RD-4390

DETAIL OF LIGHTING FOUNDATION S=1:40



LIST OF REINFORCEMENT

NAME	PIANETER	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT/BAR (kg)	WEIGHT (kg)	REMARKS
1-1	D13	2560	3	0.995	2.55	8	~
1-2	D13	2430	1	0.995	2.42	2	~
1-3	D13	3030	1	0.995	3.01	3	~
2-1	D13	1440	4	0.995	1.43	6	~
2-2	D13	1380	2	0.995	1.37	3	~
2-3	D13	1320	2	0.995	1.31	3	~
3-1	D13	970	4	0.995	0.97	4	~
3-2	D13	840	2	0.995	0.84	2	~
3-3	D13	690	2	0.995	0.69	1	~
4-1	D13	2610	1	0.995	2.60	3	~
4-2	D13	3350	1	0.995	3.33	3	~
5-1	D13	900	1	0.995	0.90	1	~
5-2	D13	1270	1	0.995	1.26	1	~
						40	
						D13	40 kg
						total	40 kg

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

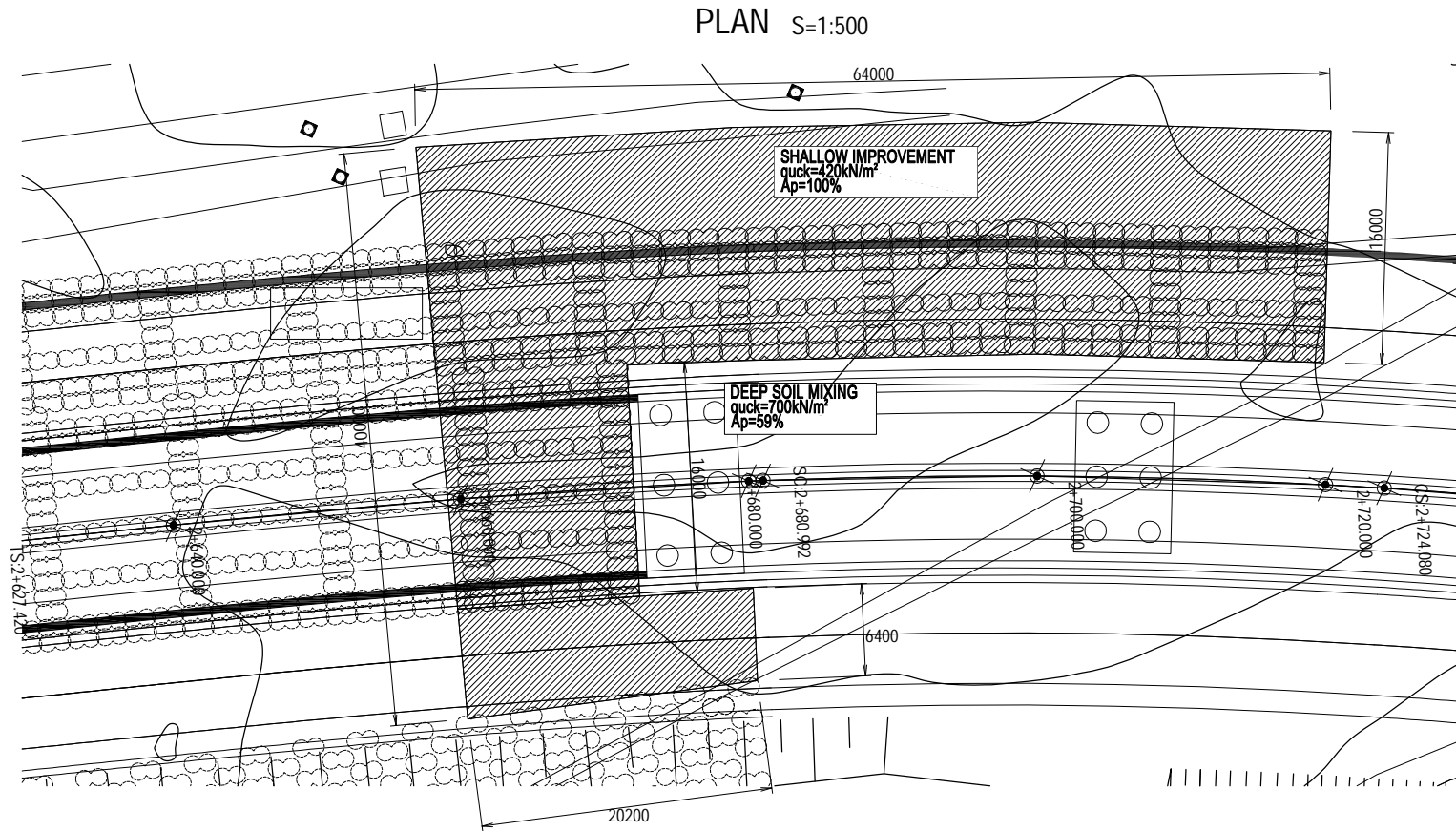
JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA	<i>[Signature]</i>	29 Sep.2017
CHECKED BY	T. HAYAKAWA	<i>[Signature]</i>	3 Oct.2017
APPROVED BY	Y. SANO	<i>[Signature]</i>	6 Oct.2017

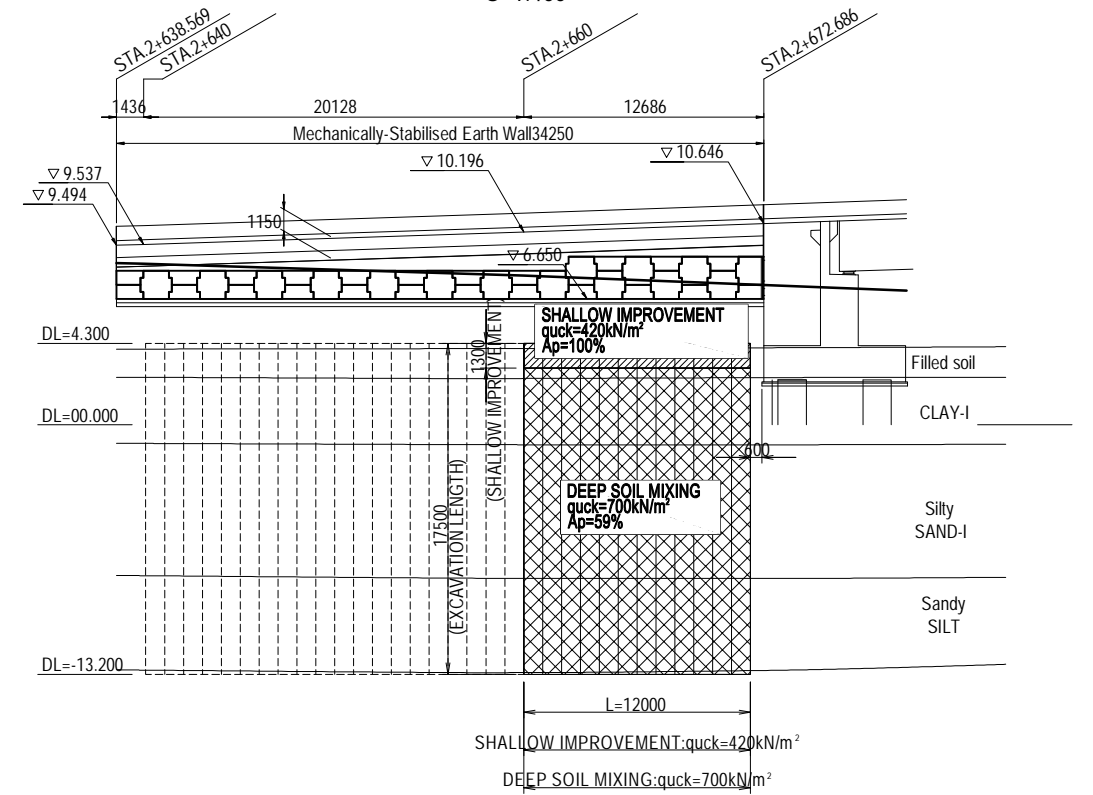
DRAWING TITLE
DETAIL OF LIGHTING FOUNDATION

PACKAGE
3
DWG No.
P3-RD-4400

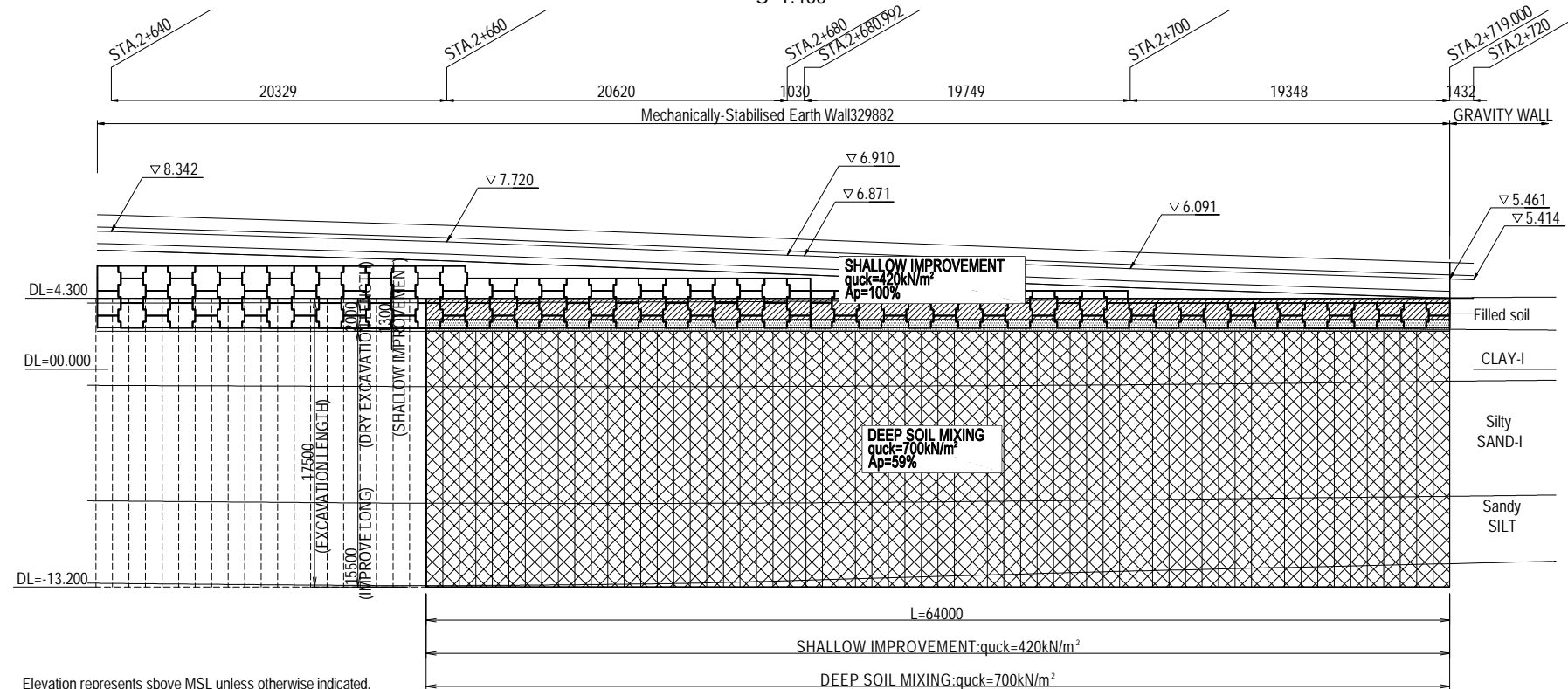
SOFT SOIL IMPROVEMENT MEASURES(1)



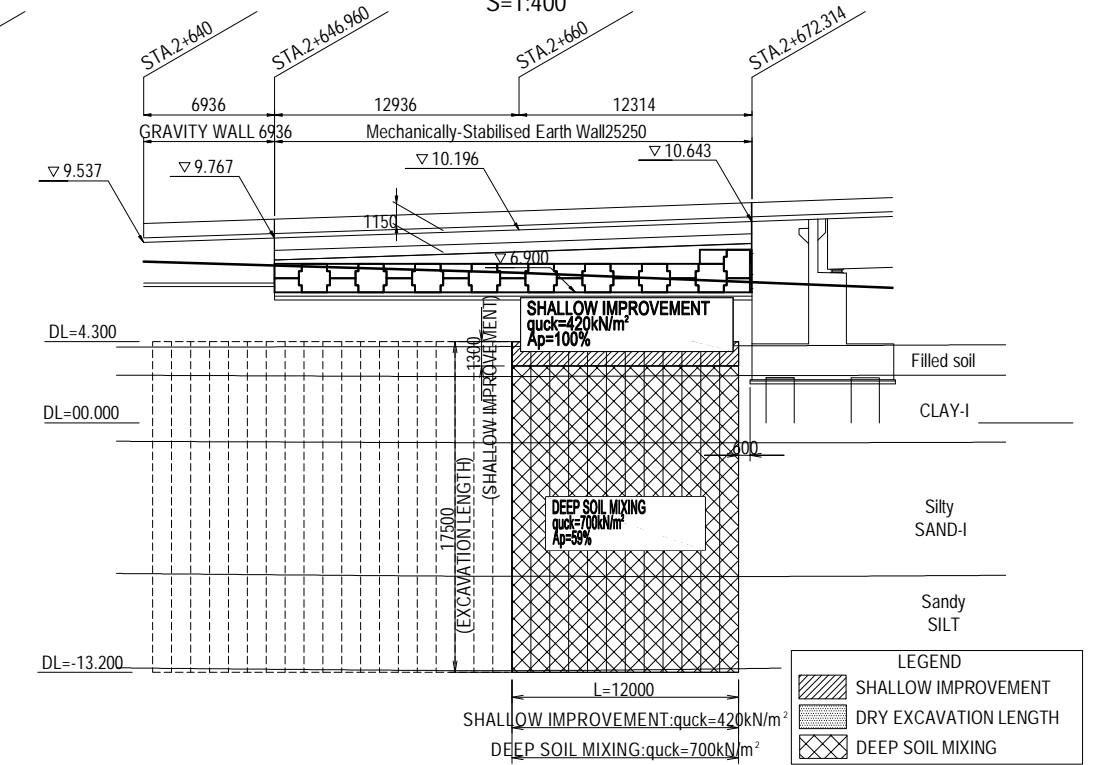
PROFILE
LEFT SIDE(DEVELOP FROM BACK SIDE)
MAIN LOAD(STA.2+660~2+672.686)
S=1:400



LEFT SIDE(DEVELOP FROM BACK SIDE)
APPROACH ROAD(STA.2+600~2+710)
S=1:400



RIGHT SIDE
MAIN ROAD(STA.2+660~2+672.314)
S=1:400



Elevation represents above MSL unless otherwise indicated.

LEGEND

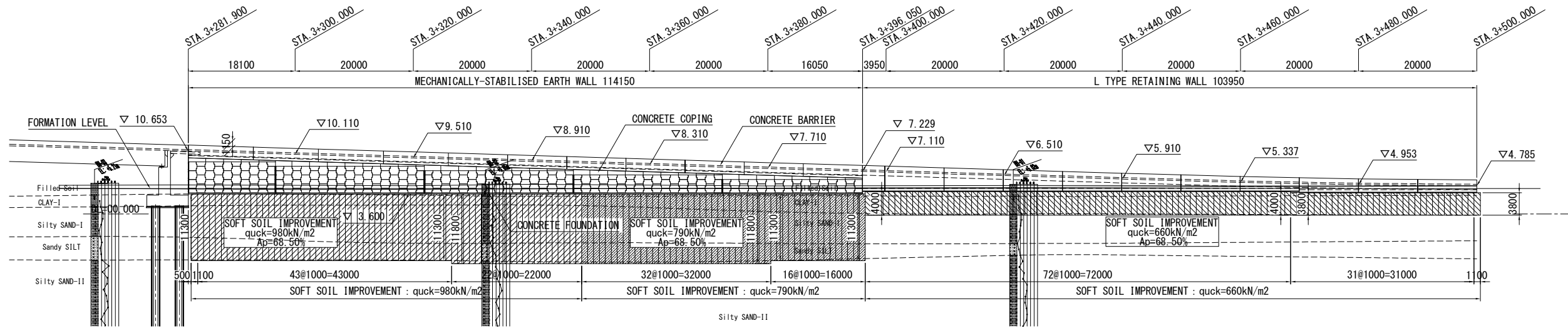
- SHALLOW IMPROVEMENT
- DRY EXCAVATION LENGTH
- DEEP SOIL MIXING

NOTE: SOIL IMPROVEMENT AREA FOR PACKAGE 3 SHALL BE THE HATCHED AREA IN THE DRAWING ONLY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

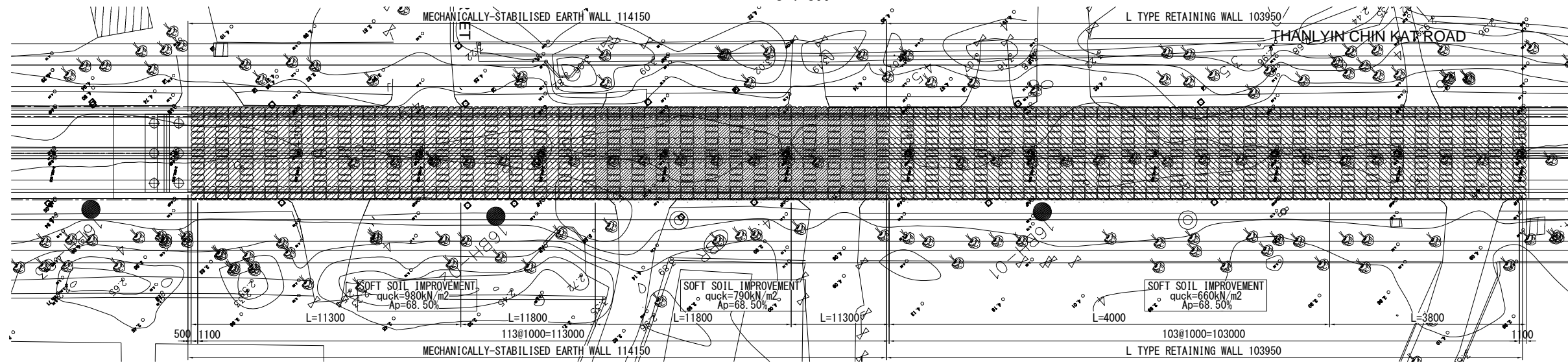
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JICA JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME K. TACHIBANA	SIGNATURE 	DATE 29 Sep.2017	DRAWING TITLE SOFT SOIL IMPROVEMENT MEASURES(1)	PACKAGE 3
				CHECKED BY T. HAYAKAWA		3 Oct.2017		DWG No.
				APPROVED BY Y. SANO		6 Oct.2017		P3-RD-5000

SOFT SOIL IMPROVEMENT MEASURES(2)

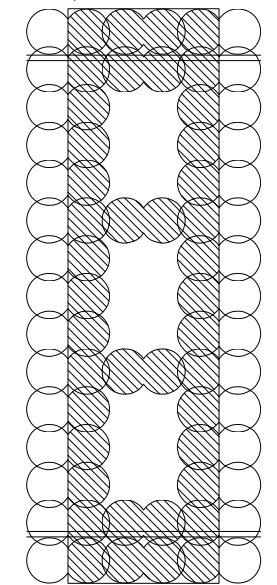
PROFILE S=1:800



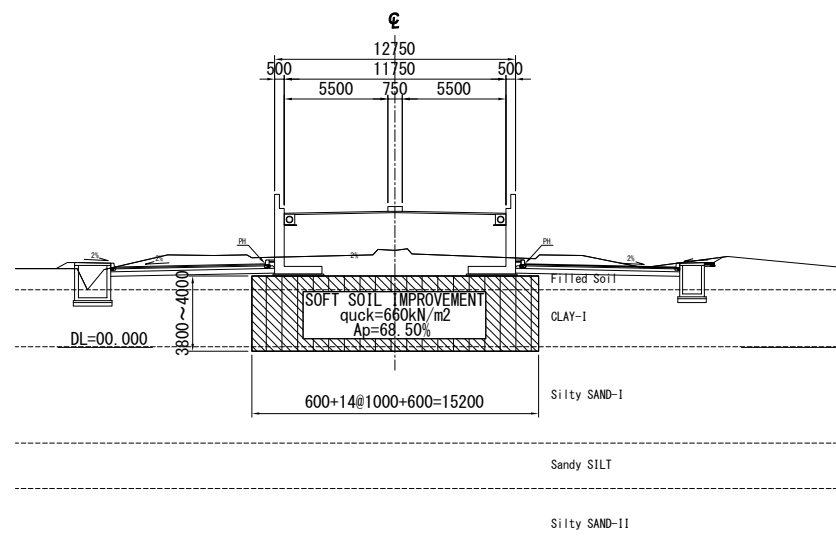
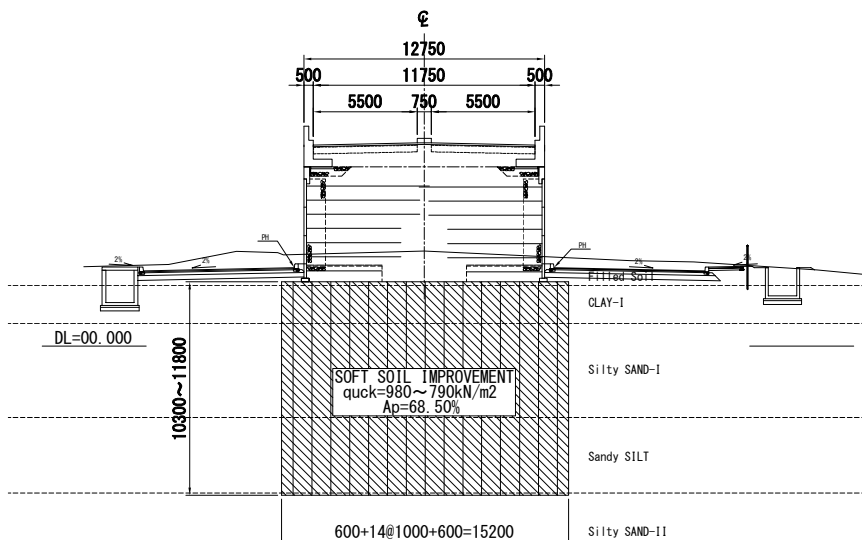
PLAN S=1:800



as=41.64m²/60.8m² × 100=68.50%



CROSS SECTION S=1:400



SOFT SOIL IMPROVEMENT

MECHANICALLY-STABILISED EARTH WALL AREA (quack=980kN/m², 790kN/m²)												
Quack (kN/m²)	AREA	Improved radial	Section(m²)	Excavation length(m)	Dry excavation length(m)	Improve long(m)	sets	Total excavation long(m)	Total dry excavation length(m)	Total improve long(m)	Total improve area(m³)	
980	A(L=11800)	1200mm@1000 2-axis	2.17	12.50	0.70	11.80	231	2887.50	161.70	2725.80	5914.99	
	B(L=11300)	1200mm@1000 2-axis	2.17	12.00	0.70	11.30	120	1440.00	84.00	1356.00	2942.52	
Subtotal							351	4327.50	245.70	4081.80	8857.51	
790	C(L=11800)	1200mm@1000 2-axis	2.17	12.50	0.70	11.80	168	2100.00	117.60	1982.40	4301.81	
	D(L=11300)	1200mm@1000 2-axis	2.17	12.00	0.70	11.30	111	1332.00	77.70	1254.30	2721.83	
Subtotal							252	3108.00	176.40	2931.60	6361.57	
L TYPE RETAINING WALL AREA (quack=660kN/m²)												
660	E(L=4000)	1200mm@1000 2-axis	2.17	4.60	0.60	4.00	378	1738.80	226.80	1512.00	3281.04	
	F(L=3800)	1200mm@1000 2-axis	2.17	4.40	0.60	3.80	168	739.20	100.80	638.40	1385.33	
Subtotal							546	2478.00	327.60	2150.40	4666.37	
Total							1149	9913.50	749.70	9163.80	19885.45	

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

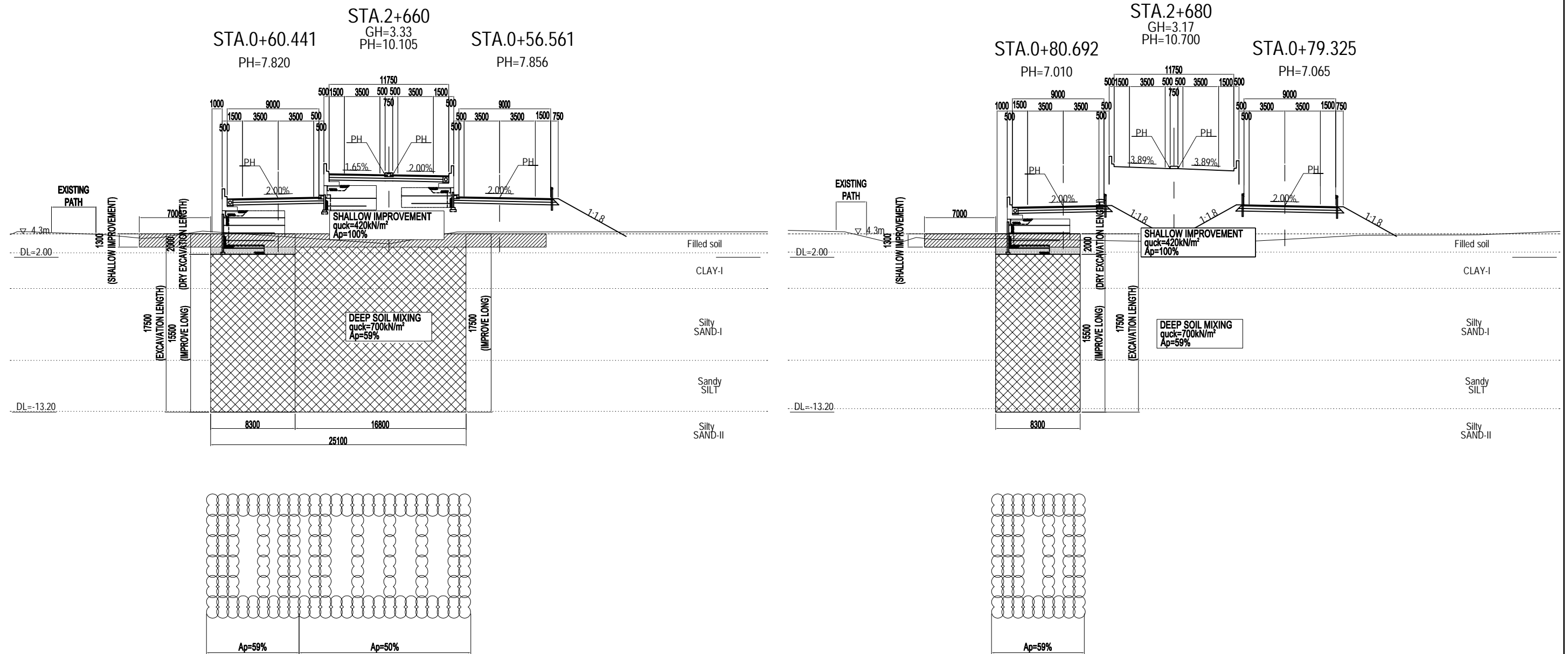
JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
SOFT SOIL IMPROVEMENT MEASURES(2)

PACKAGE
3
DWG No.
P3-RD-5010

CROSS SECTION OF DEEP MIXING METHOD(1) S=1:400

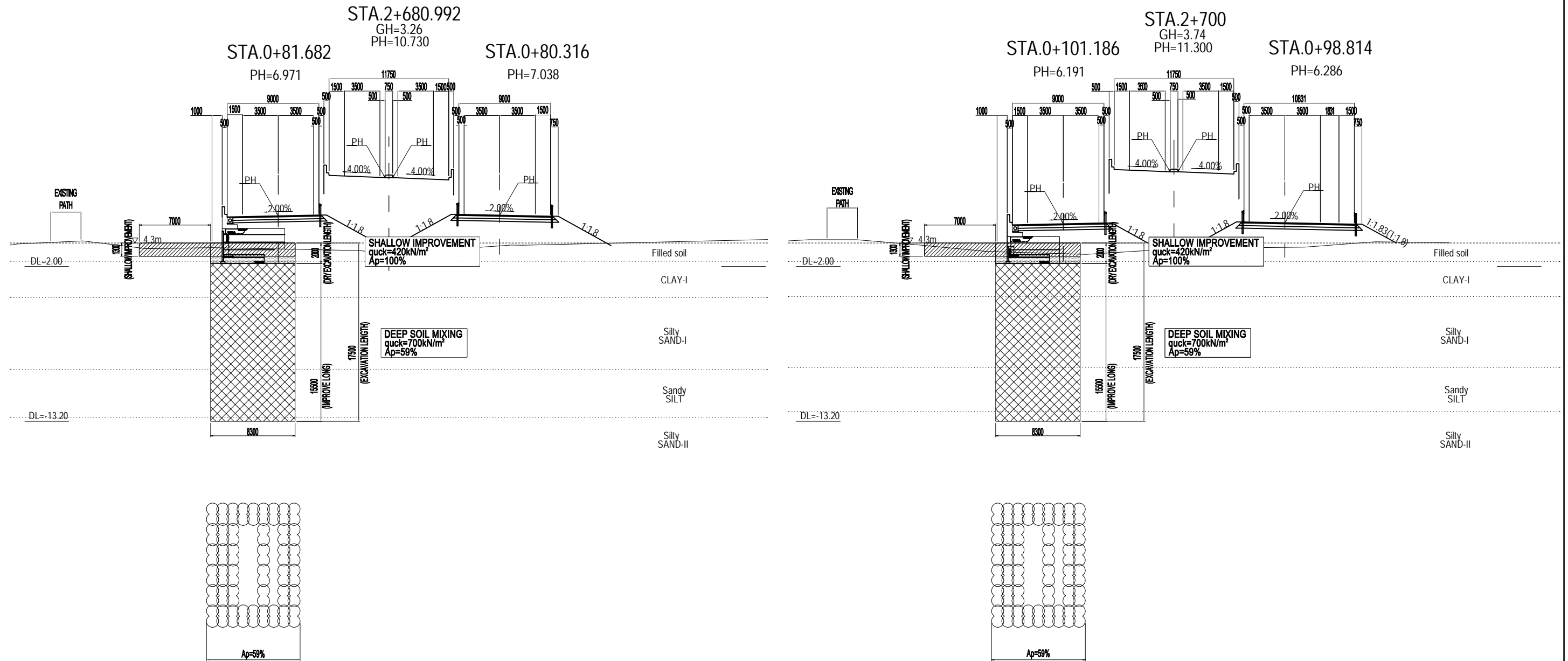


Elevation represents above MSL unless otherwise indicated.

LEGEND	
	SHALLOW IMPROVEMENT
	DRY EXCAVATION LENGTH
	DEEP SOIL MIXING

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017
CROSS SECTION OF DEEP MIXING METHOD(1)							3	DWG No.	
								P3-RD-5020	

CROSS SECTION OF DEEP MIXING METHOD(2) S=1:400

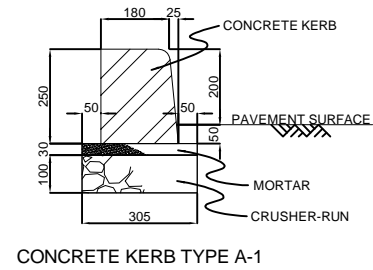


Elevation represents above MSL unless otherwise indicated.

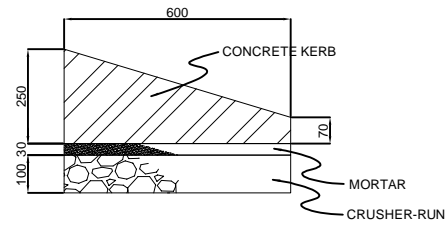
LEGEND	
	SHALLOW IMPROVEMENT
	DRY EXCAVATION LENGTH
	DEEP SOIL MIXING

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION OF DEEP MIXING METHOD(2)	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-5030

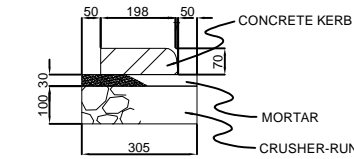
DETAILS OF KERB SCALE = 1:20



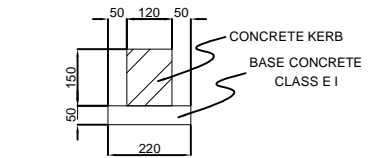
CONCRETE KERB TYPE A-1



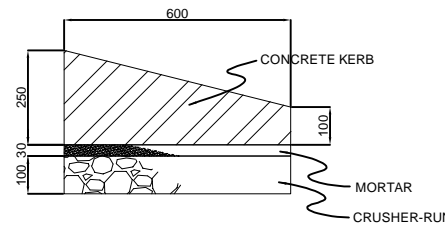
CONCRETE KERB TYPE A-2
TRANSITION BLOCK BETWEEN
TYPE A-1 AND TYPE A-3



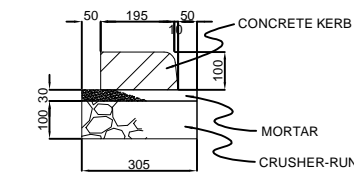
CONCRETE KERB TYPE A-3



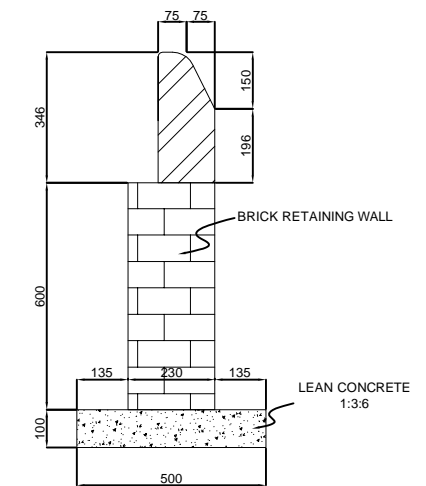
CONCRETE KERB TYPE C



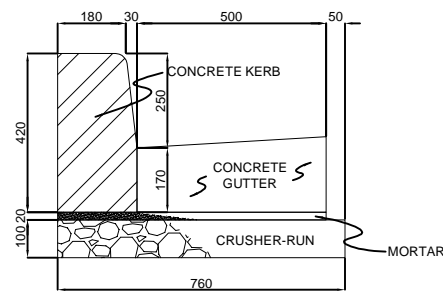
CONCRETE KERB TYPE A-4
TRANSITION BLOCK BETWEEN
TYPE A-1 AND TYPE A-5



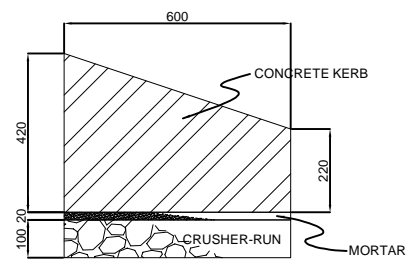
CONCRETE KERB TYPE A-5



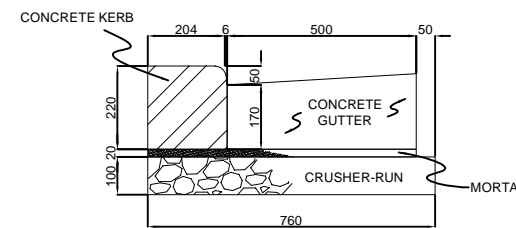
CONCRETE KERB TYPE D



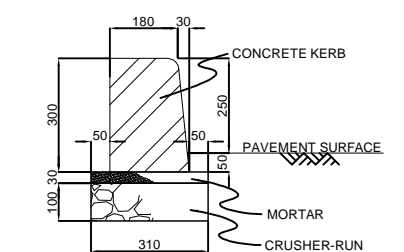
CONCRETE KERB TYPE B-1



CONCRETE KERB TYPE B-2
TRANSITION BLOCK BETWEEN
TYPE B-1 AND TYPE B-3



CONCRETE KERB TYPE B-3



CONCRETE KERB TYPE E

MATERIAL LIST (QUANTITIES PER 10 M)

TYPE	A-1	A-2	A-3	A-4	A-5	B-1	B-2	B-3
DIMENSION	180/205×H250×L600	180/205×H250×L600 198/205×H70	198/205×H70×L600	180/205×H250×L600 195/205×H100	195/205×H100×L600	180/210×H420×L600	180/210×H420×L600 204/210×H220	204/210×H220×L600
CONCRETE	CLASS E I	CLASS E I	CLASS E I	CLASS E I	CLASS E I	CLASS E I	CLASS E I	CLASS E I
MORTAR (1:3)	0.0915 m ³	0.0915 m ³	0.0915 m ³	0.0915 m ³	0.0915 m ³	0.142 m ³	0.142 m ³	0.142 m ³
CRUSHER-RUN	0.305 m ³	0.305 m ³	0.305 m ³	0.305 m ³	0.305 m ³	0.760 m ³	0.760 m ³	0.760 m ³
GUTTER CONCRETE	-	-	-	-	-	0.925 m ³	0.925 m ³	0.925 m ³

MATERIAL LIST (QUANTITIES PER 10 M)

TYPE	C	D	E
DIMENSION	120×H150×L600	75/150×H346×L600	180/210×H300×L600
CONCRETE	CLASS E I	CLASS E I	CLASS E I
MORTAR (1:3)	-	-	-
CRUSHER-RUN	-	-	0.093 m ³
BASE CONCRETE	0.110 m ³	-	0.310 m ³
LEAN CONCRETE	-	0.500 m ³	-
BRICK	-	1.380 m ³	-

PROJECT NAME
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BAGO RIVER BRIDGE
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COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO. LTD.
NIPPON ENGINEERING CONSULTANTS CO. LTD.

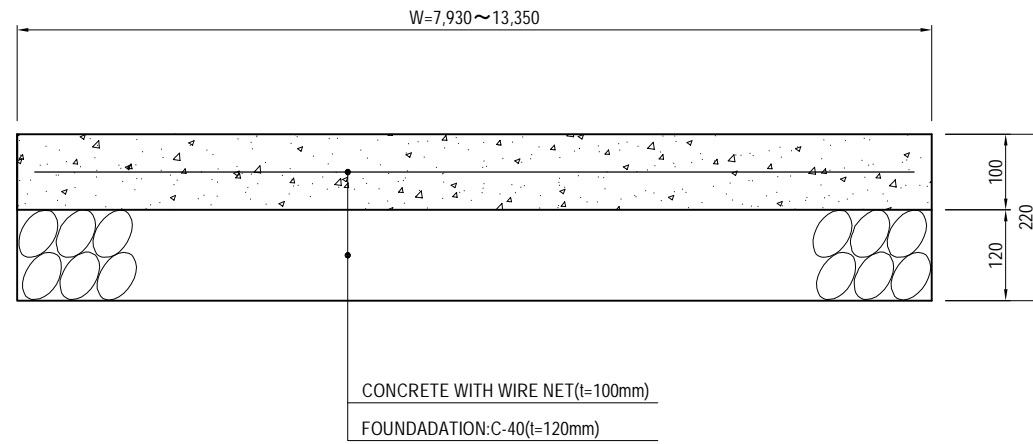
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DETAILS OF KERB

PACKAGE
3
DWG No.
P3-RD-6000

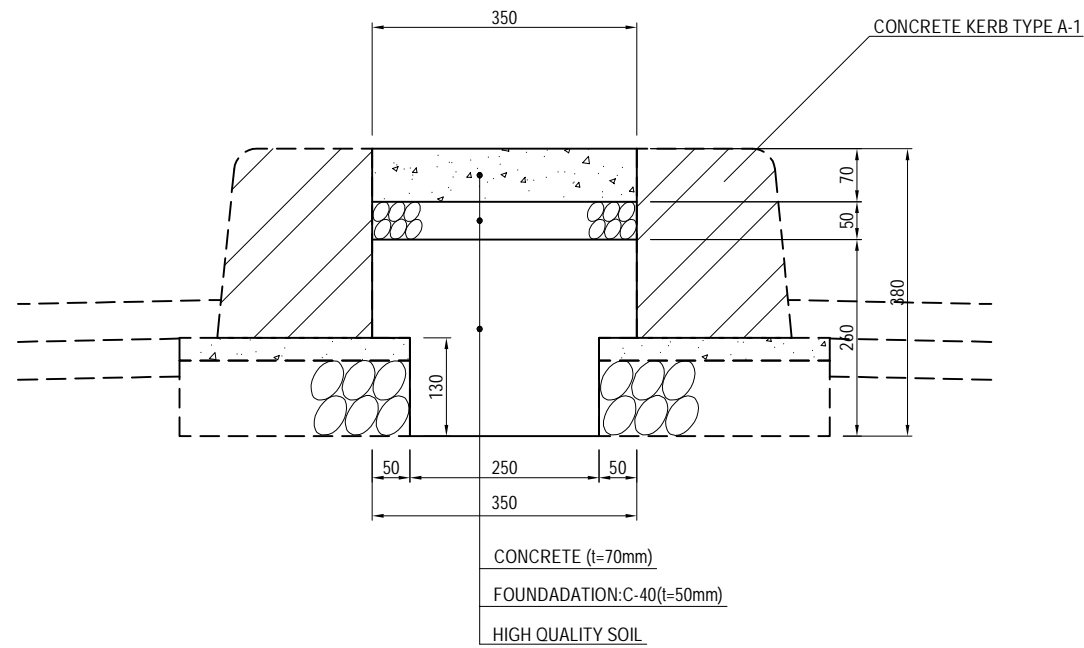
DETAILS OF CONCRETE SEAL S=1:10

Note
1. Specification of Plain Concrete should be CLASS E1



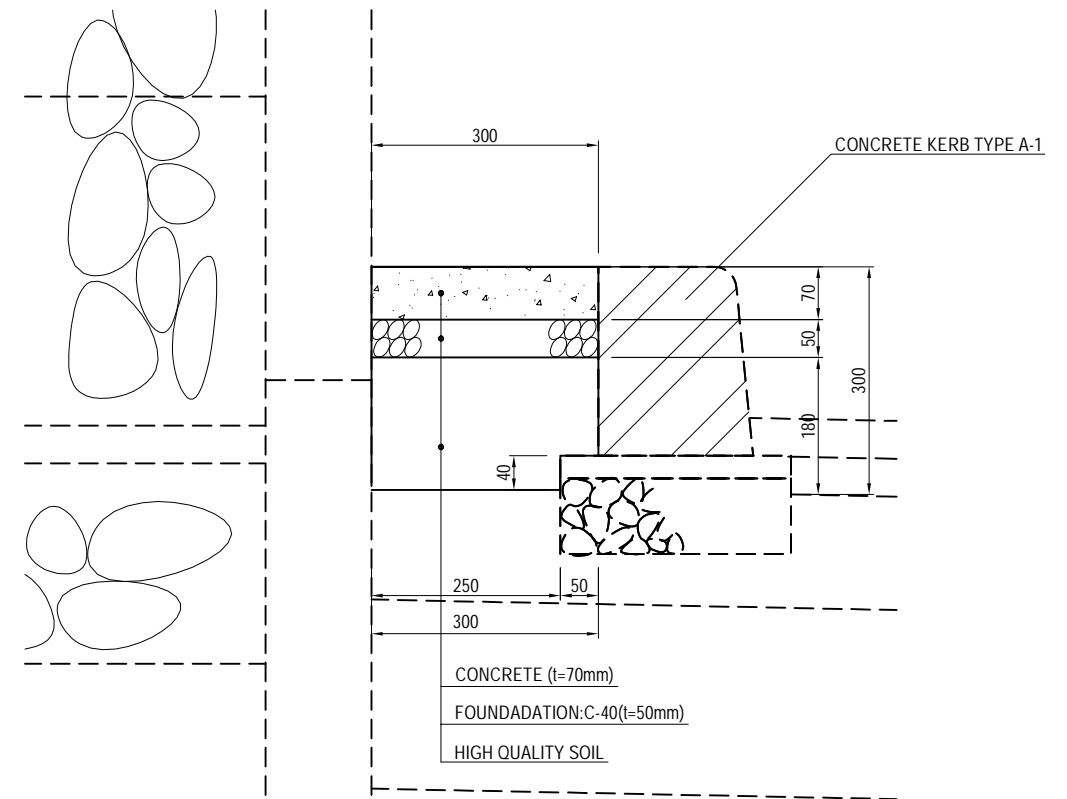
CONCRETE SEAL (t=100mm)
("UNDER FLYOVER" SECTION)

QUANTITY		Per 100 m ²	
Title	Specification	Quantity	
Concrete	18N/mm ² , t=100	100.00	m ²
Wire net		100.00	m ²
Foundation	t=120	100.00	m ²



MEDIAN TYPE A (t=70mm)
("MECHANICALLY STABILISED EARTH WALL" SECTION)

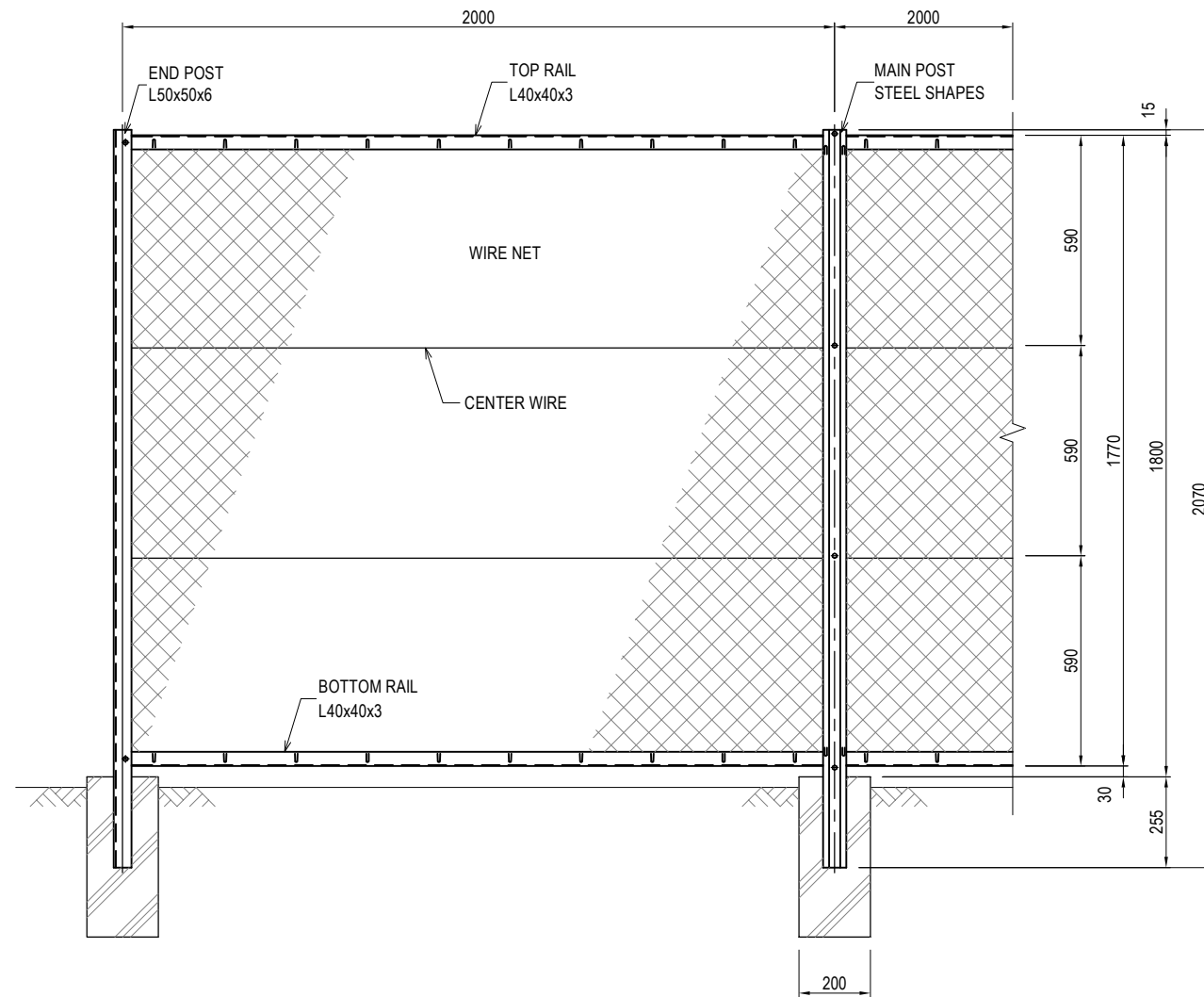
QUANTITY		Per 100 m	
Title	Specification	Quantity	
Concrete	18N/mm ² , t=70	2.45	m ³
Foundation	t=50	35.00	m ²
High Quality Soil		7.80	m ³



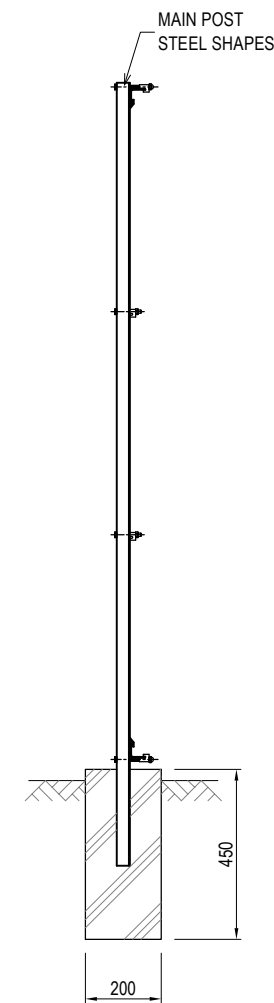
MEDIAN TYPE B (t=70mm)
("MECHANICALLY STABILISED EARTH WALL" SECTION)

QUANTITY		Per 100 m	
Title	Specification	Quantity	
Concrete	18N/mm ² , t=70	2.10	m ³
Foundation	t=50	30.00	m ²
High Quality Soil		5.20	m ³

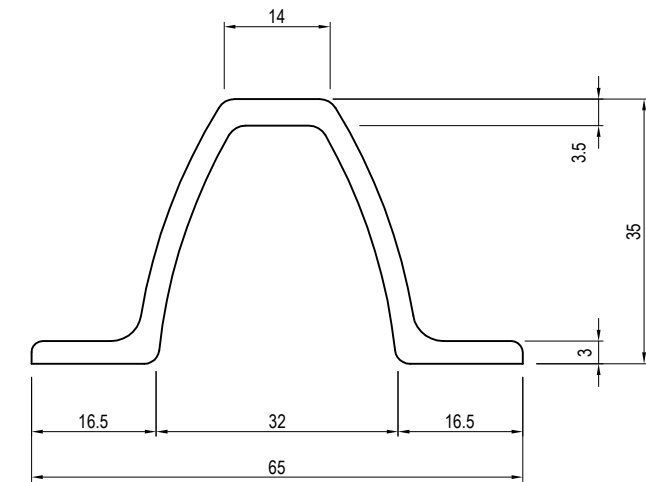
DETAIL OF BOUNDARY FENCE (1)



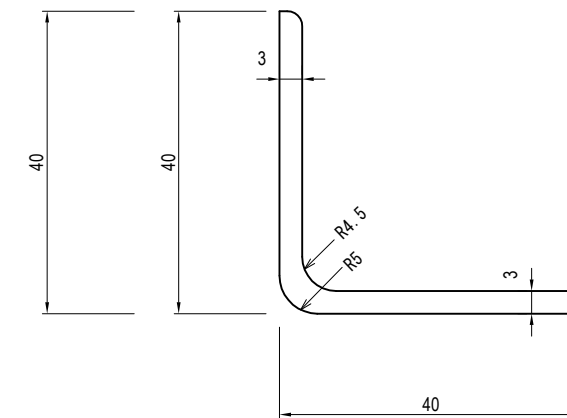
FRONT VIEW
S=1:20



SIDE VIEW
S=1:20



MAIN POST DETAIL
S=1:1

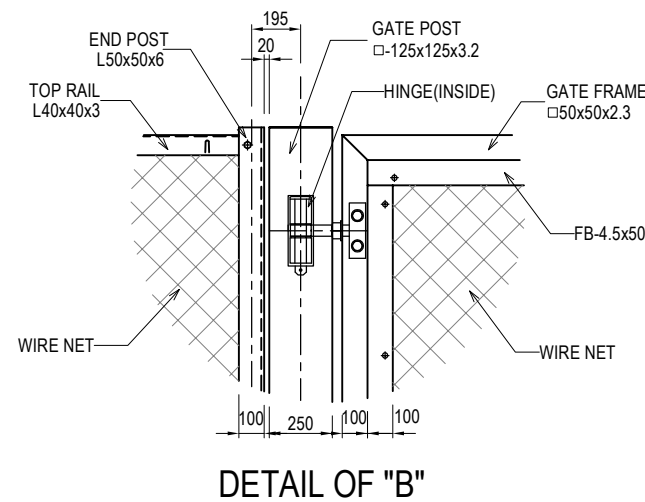
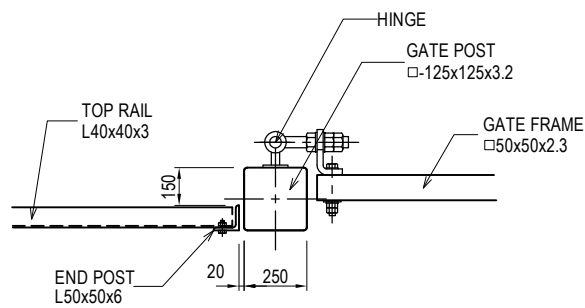
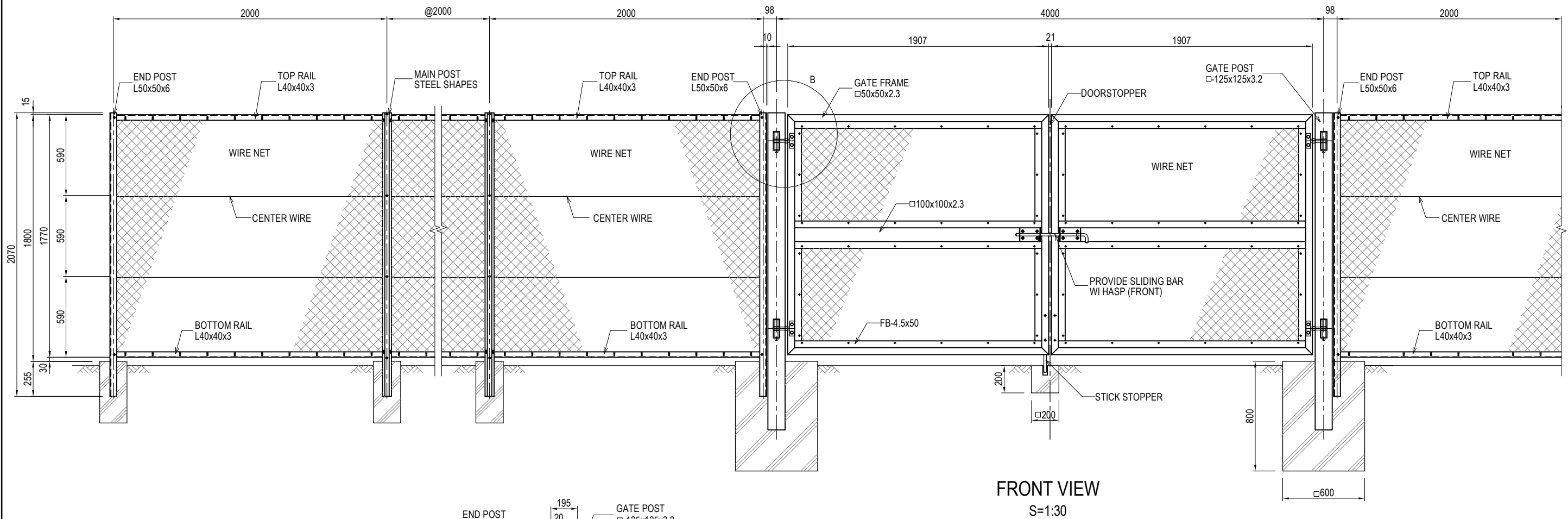
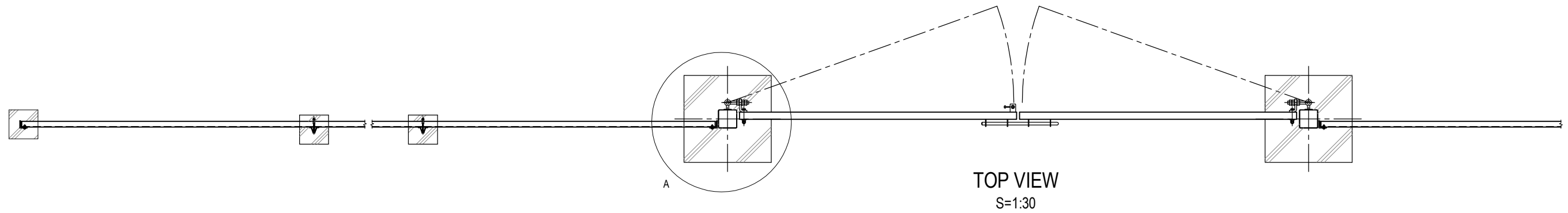


RAIL SECTION(L40x40x3)
S=1:1

QUANTITY PER 10m

Title	Specification	Quantity	Description
Main Post	t=3,L=2070	4 each	Coating specification
End Post	L-50x50x6,L=2070	(2) each	Coating specification
Rail	L-40x40x3,L=10m	2 each	Coating specification
Wire Net	φ3.2-50x50,L=1800	10 m	
Concrete	E I	0.09 m3	
Form		1.8 m2	

DETAIL OF BOUNDARY FENCE (2)



QUANTITY			PER 1each
Title	Specification	Quantity	Description
Gate	W=4.0m,H=1.8m	1 set	Coating specification
Concrete	E 1	0.58 m3	
Form		4.0 m2	

PROJECT NAME
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 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

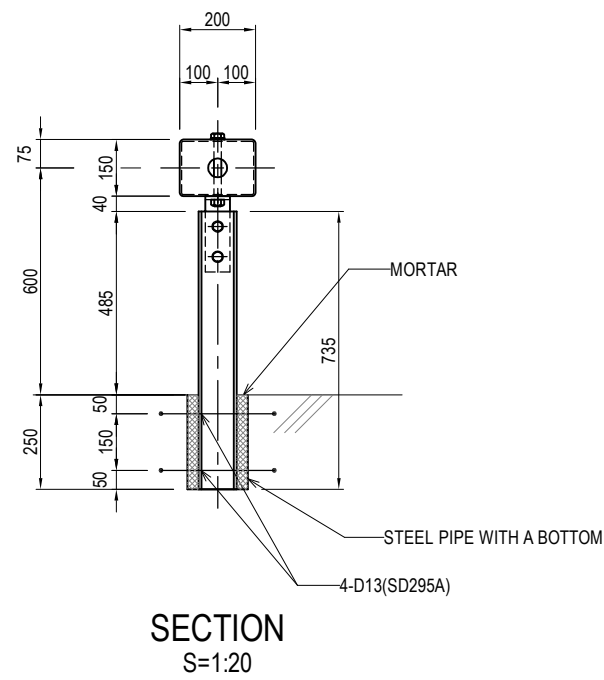
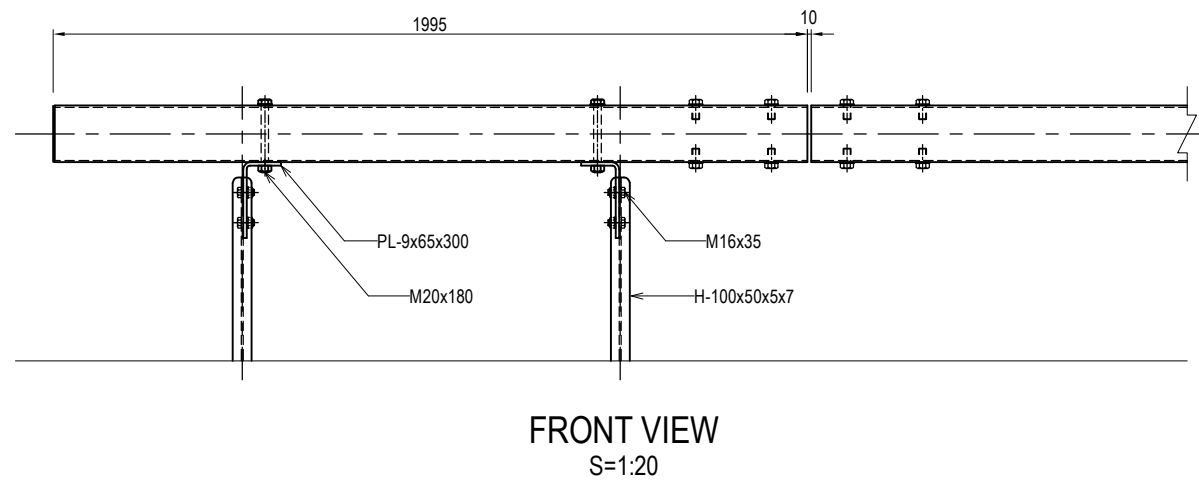
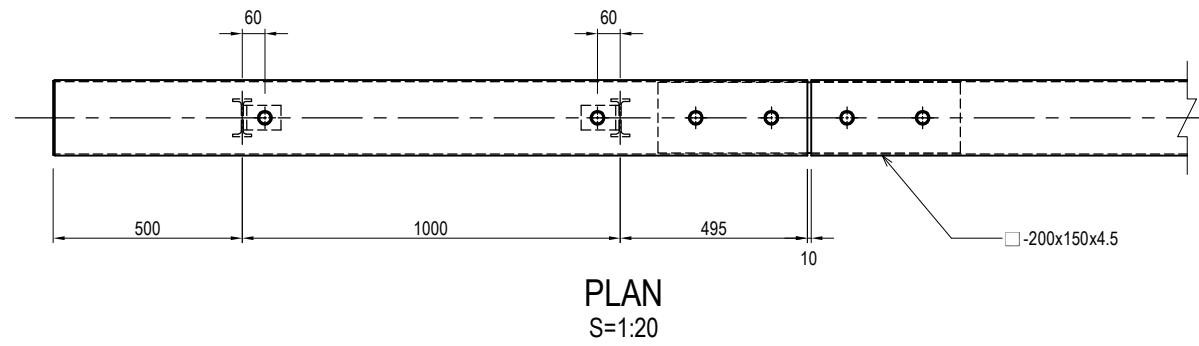
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO. LTD.
 NIPPON ENGINEERING CONSULTANTS CO. LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

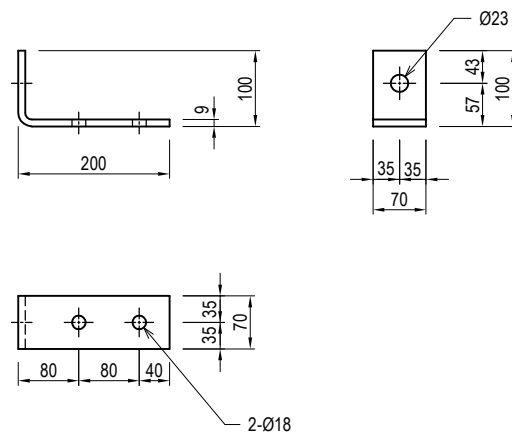
DRAWING TITLE
DETAIL OF BOUNDARY FENCE (2)

PACKAGE
3
DWG No.
P3-RD-6030

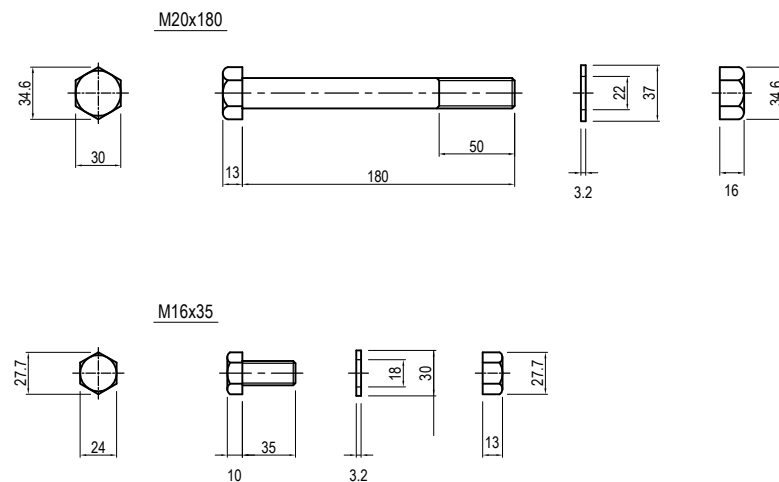
DETAIL OF BOX BEAM (1)



DETAIL OF BRACKET S=1:10



DETAIL OF CONNECTION BOLT S=1:5



QUANTITY PER 1each

Title	Specification	Quantity	Description
Post	H-100 x 50 x 5 x 7 L=735	2 each	HDZ 55
Box beam (Edge)	□-200 x 150 x 4.5 L=1995	1 each	HDZ 55

PROJECT NAME
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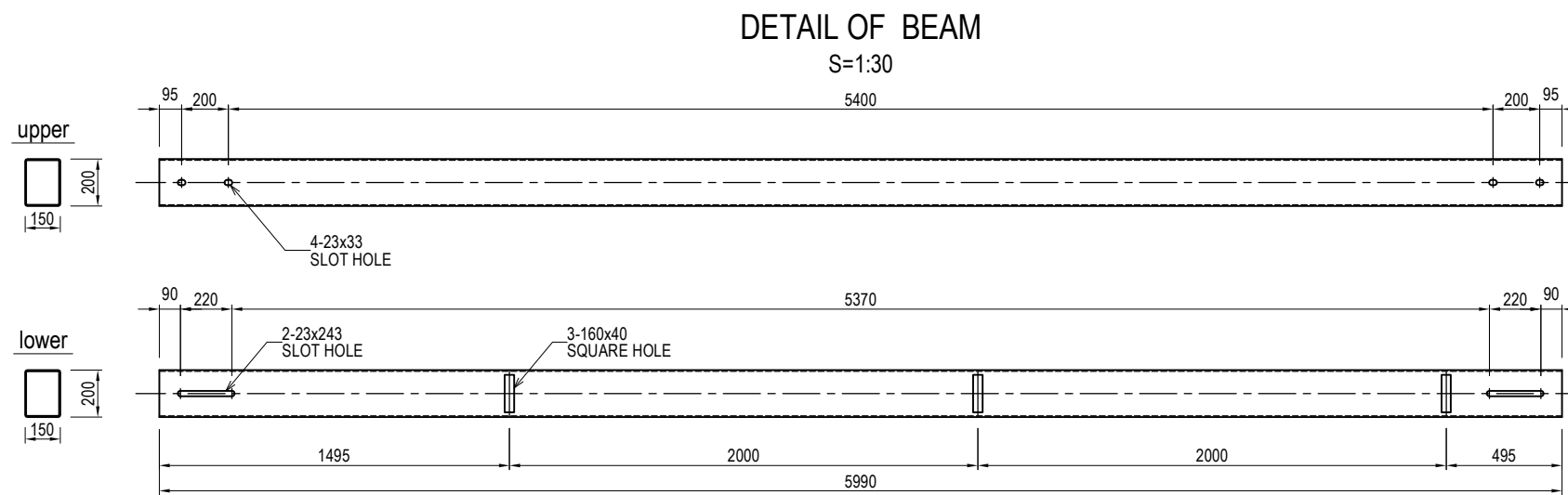
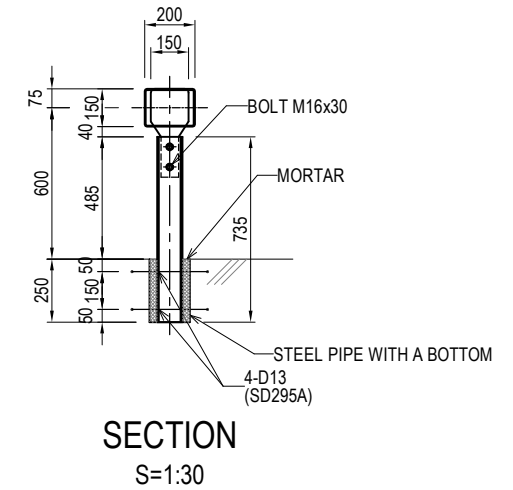
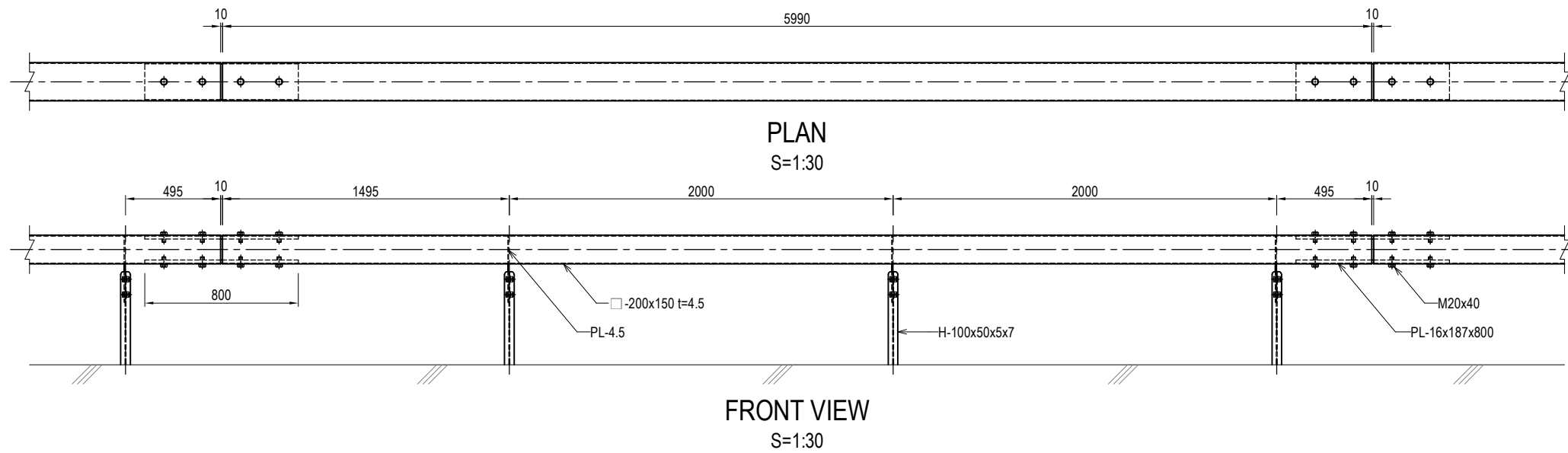
JICA STUDY TEAM
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PREPARED BY	K. TACHIBANA		29 Sep.2017
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APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DETAIL OF BOX BEAM (1)

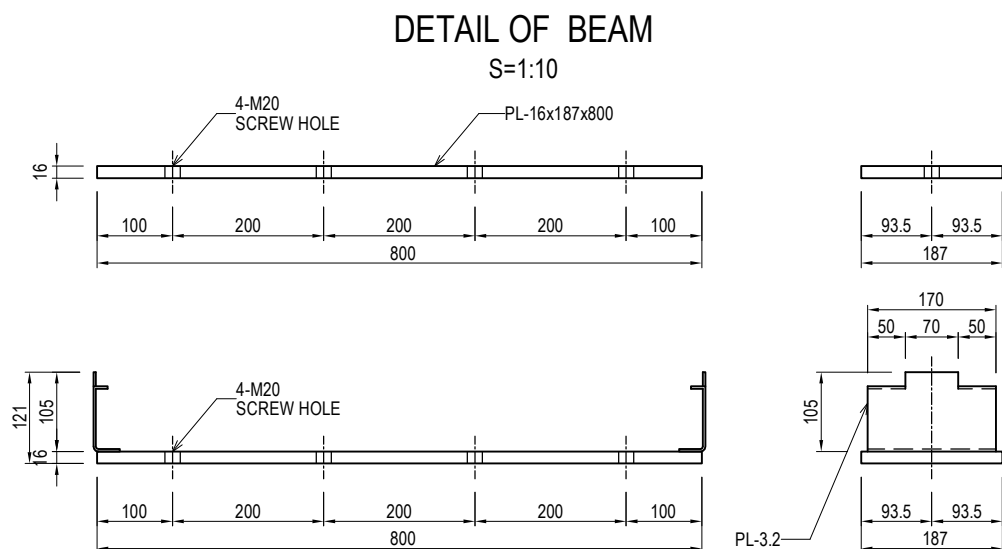
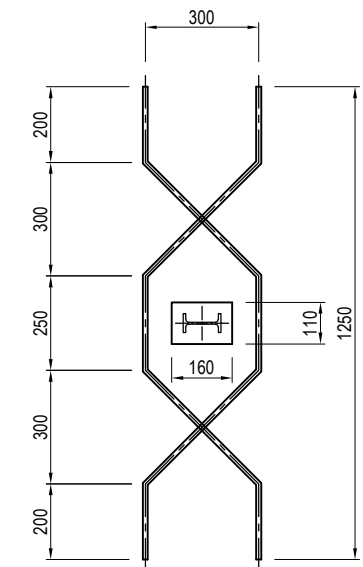
PACKAGE
3
DWG No.
P3-RD-6040

DETAIL OF BOX BEAM (2)



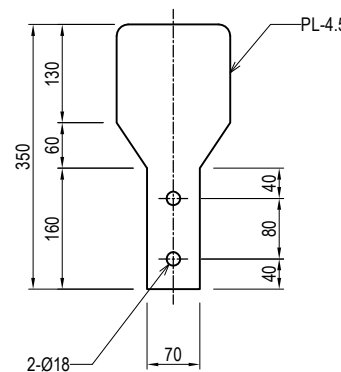
DETAIL OF REINFORCING BAR

S=1:20



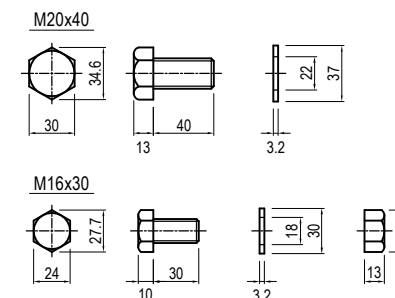
DETAIL OF PADDLE

S=1:10



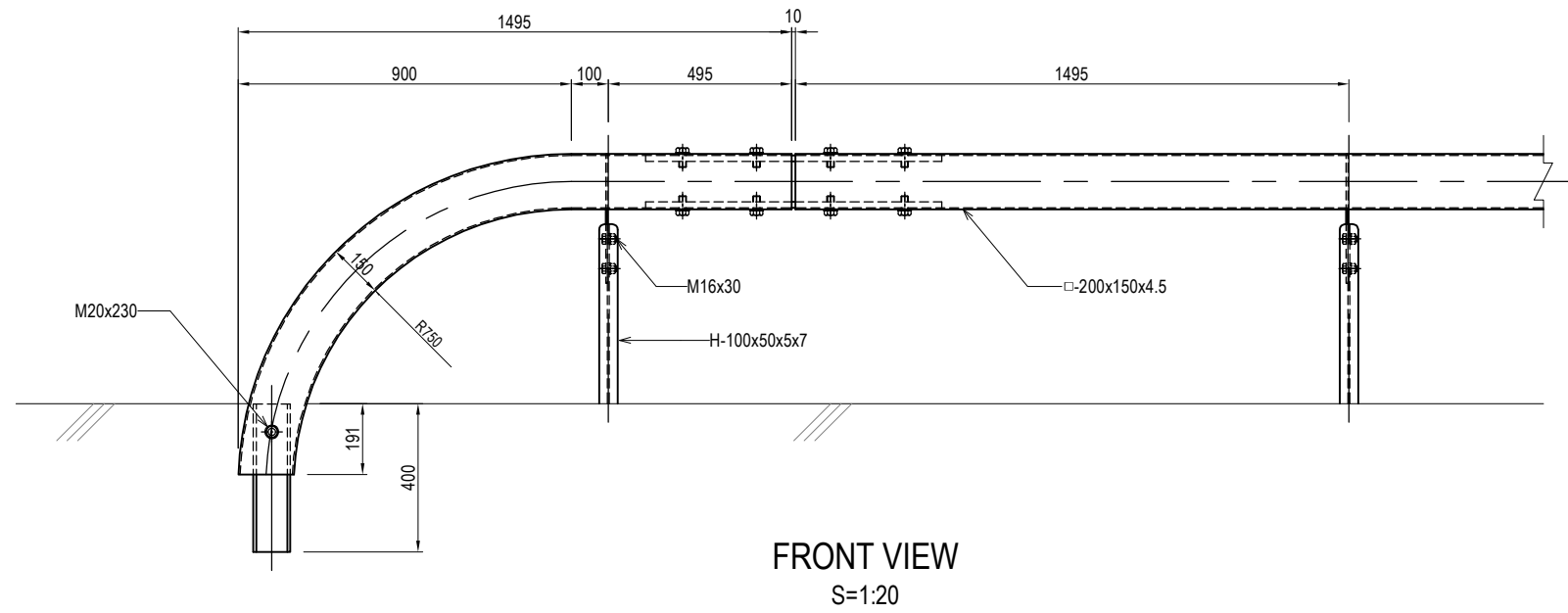
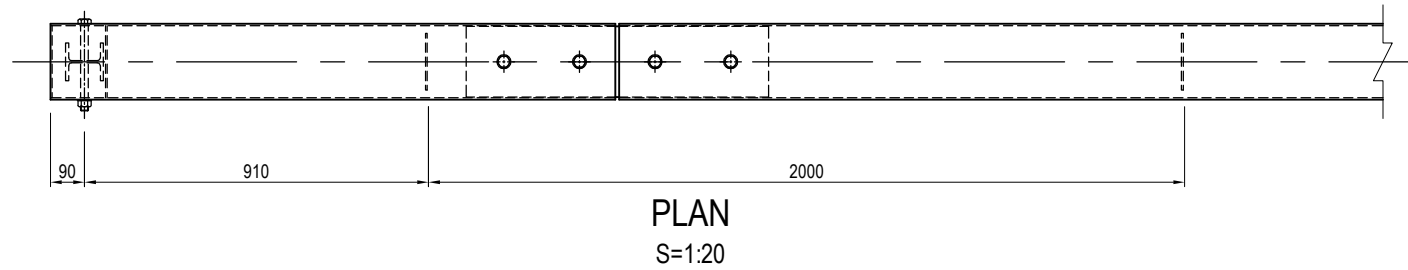
DETAIL OF CONNECTION BOLT

S=1:5

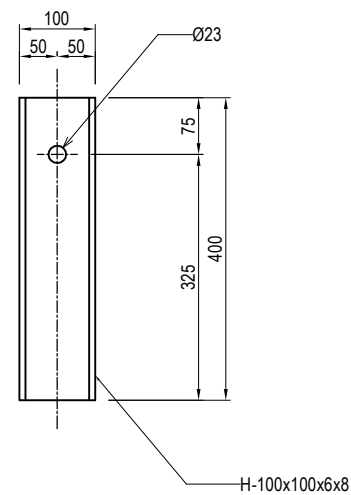


QUANTITY			PER 10m
Title	Specification	Quantity	Description
Post	H-100 x 50 x 5 x 7 L=735	5 each	HDZ 55
Box beam	□-200 x 150 x 4.5 L=2000	5 each	HDZ 55

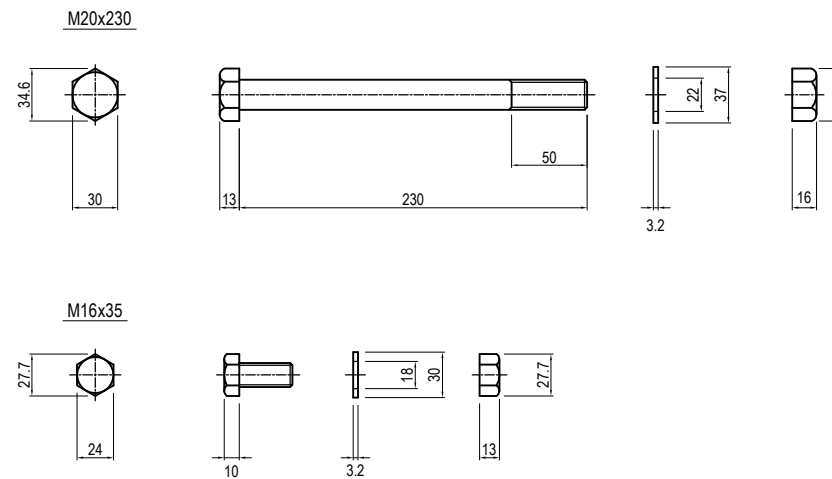
DETAIL OF BOX BEAM (3)



DETAIL OF ANCHOR POST S=1:10



DETAIL OF CONNECTION BOLT S=1:5



QUANTITY			PER 1each
Title	Specification	Quantity	Description
Post	H-100 x 50 x 5 x 7 L=735	2 each	HDZ 55
Anchor post	H-100 x 100 x 6 x 8 L=400	1 each	HDZ 55
Box beam (Edge)	□-200 x 150 x 4.5 L=1495	1 each	HDZ 55
Box beam (Edge)	□-200 x 150 x 4.5 R=750	1 each	HDZ 55

PROJECT NAME
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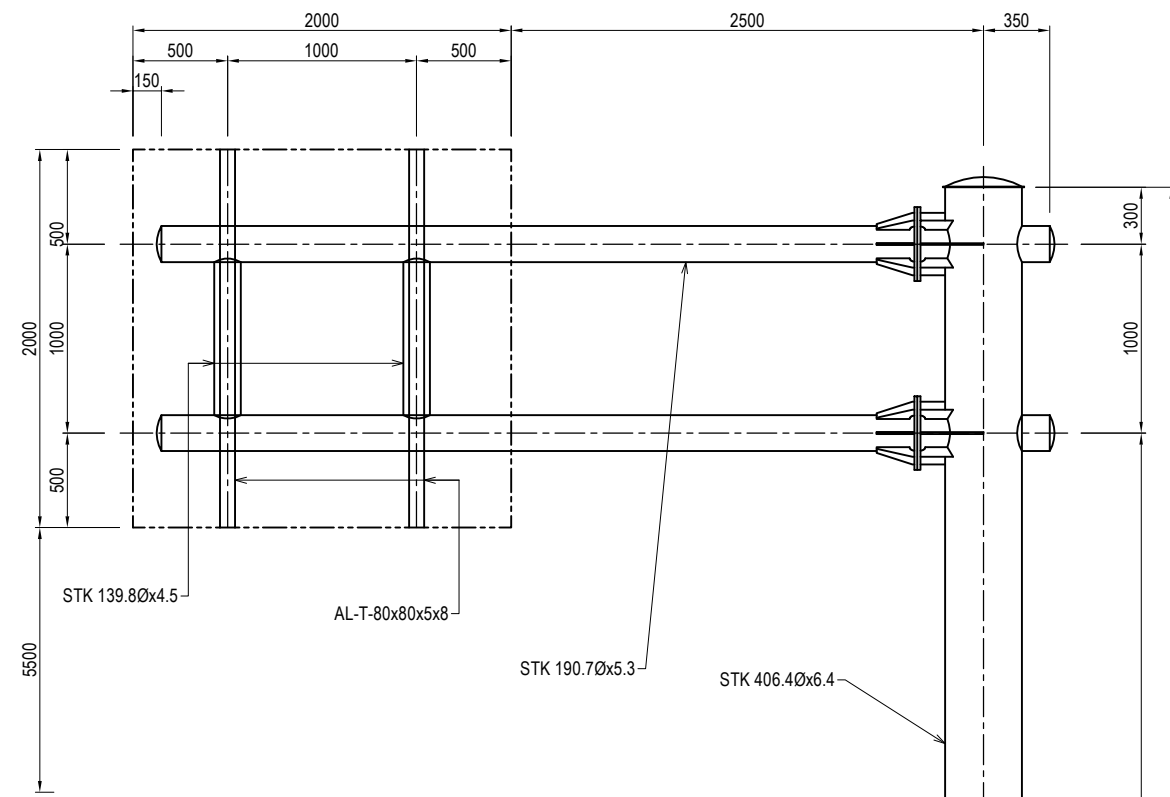
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DETAIL OF BOX BEAM (3)

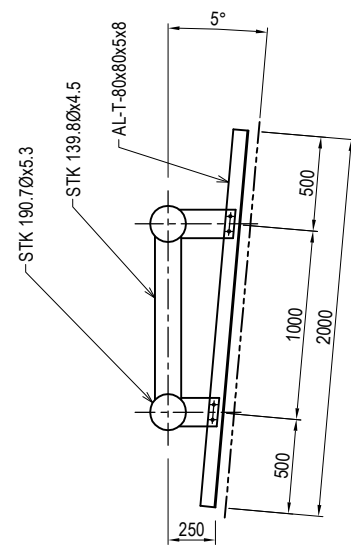
PACKAGE
3
DWG No.
P3-RD-6060

DETAIL OF INFORMATORY SIGNBOARD-TYPE A FOUNDATION AND POST (1)

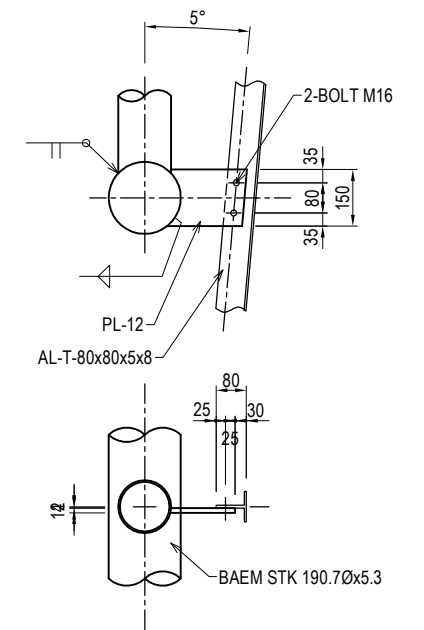
GENERAL VIEW S = 1:40



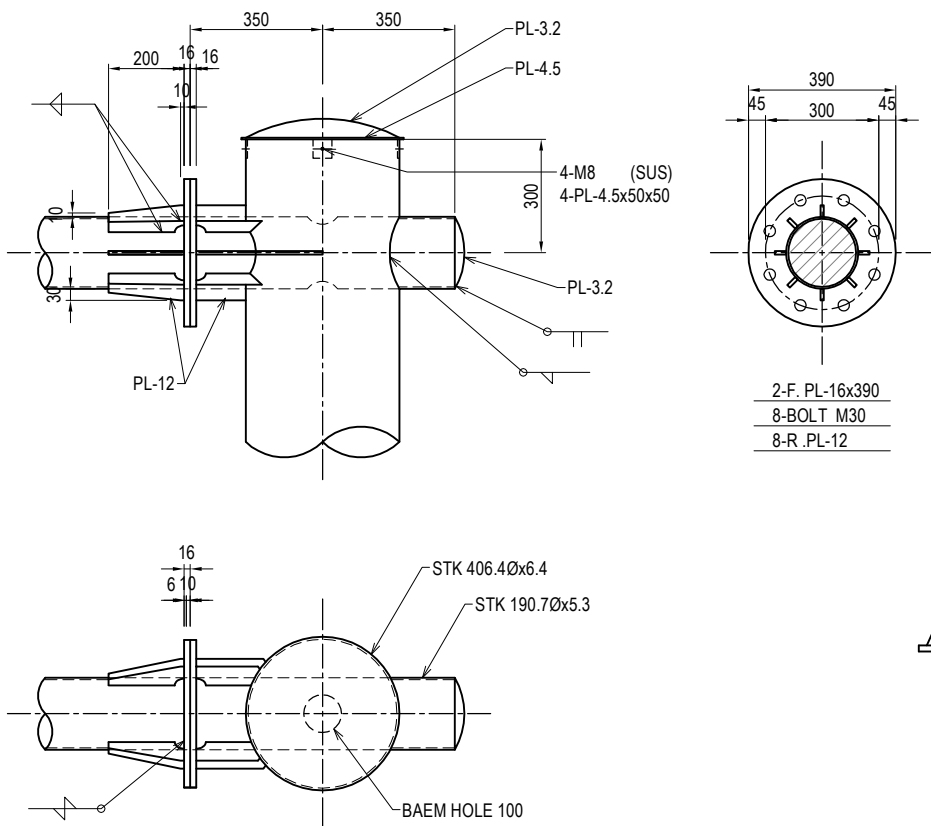
SECTION OF PANEL S = 1:40



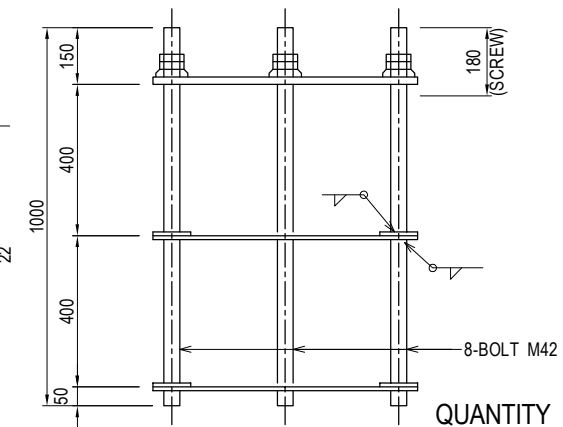
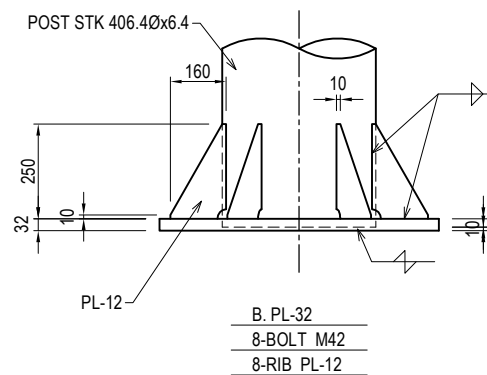
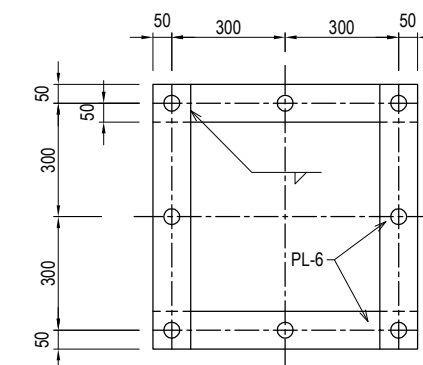
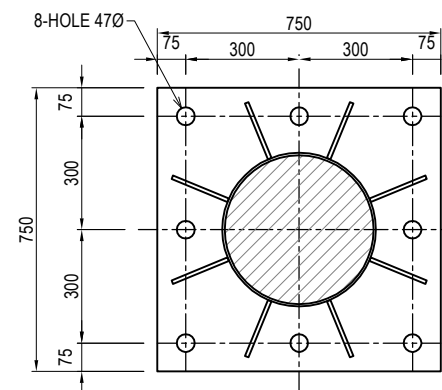
DETAIL OF MOUNTING BRACKET



DETAIL OF INTERACTION BETWEEN BEAM AND PILLAR S = 1:20



DETAIL OF COLUMN BASE S = 1:20 DETAIL OF ANCHOR BOLT S = 1:20



QUANTITY		PER 1each	
Title	Specification	Quantity	Description
Signboard	aluminium:t=2.0	1 each	Encapsulated lens type
Post	φ406.4 x 7300 x 6.4	460.63 kg	HDZ 55
Beam	φ190.7 x 4700 x 5.3	227.48 kg	HDZ 55
Post jointing	φ139.8 x 1000 x 4.5	30.00 kg	HDZ 55
Stiffener		333.58 kg	
Anchor bolt	M42 x 1000	99.12 kg	HDZ 55
Anchor bolt fixed frame	PL-100 x 700 x 6	28.40 kg	HDZ 55

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO. LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

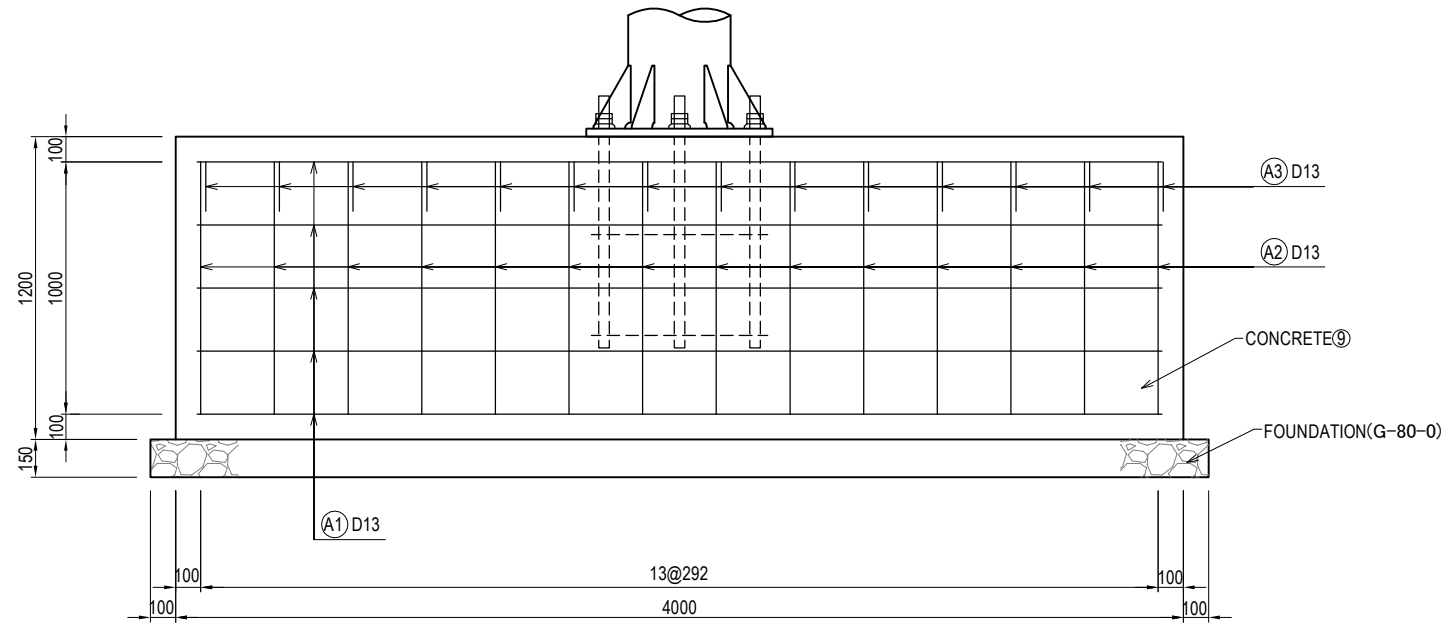
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
**DETAIL OF INFORMATORY SIGNBOARD-TYPE A
FOUNDATION AND POST (1)**

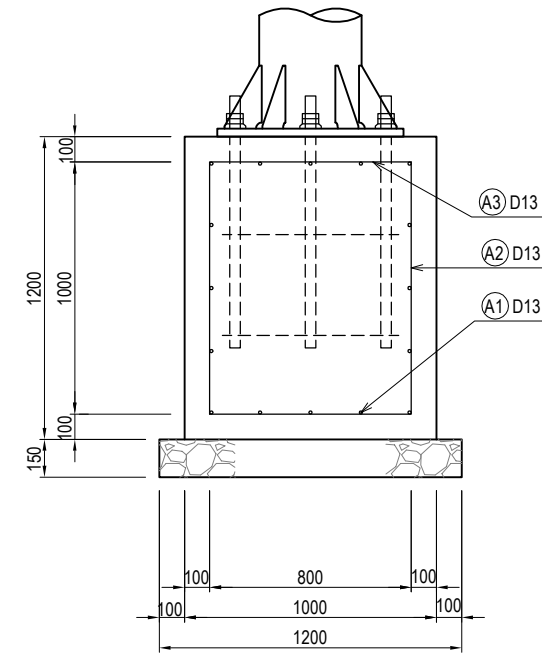
PACKAGE
3
DWG No.
P3-RD-6070

DETAIL OF INFORMATORY SIGNBOARD-TYPE A FOUNDATION AND POST (2) S=1:30

FRONT VIEW OF BASEMENT

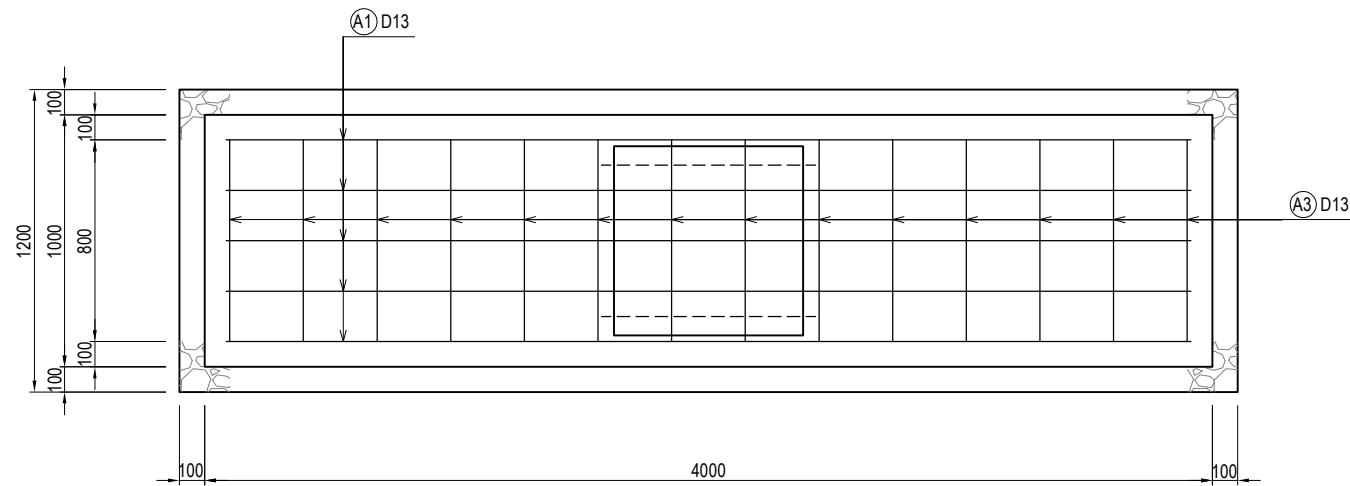


SIDE VIEW OF BASEMENT

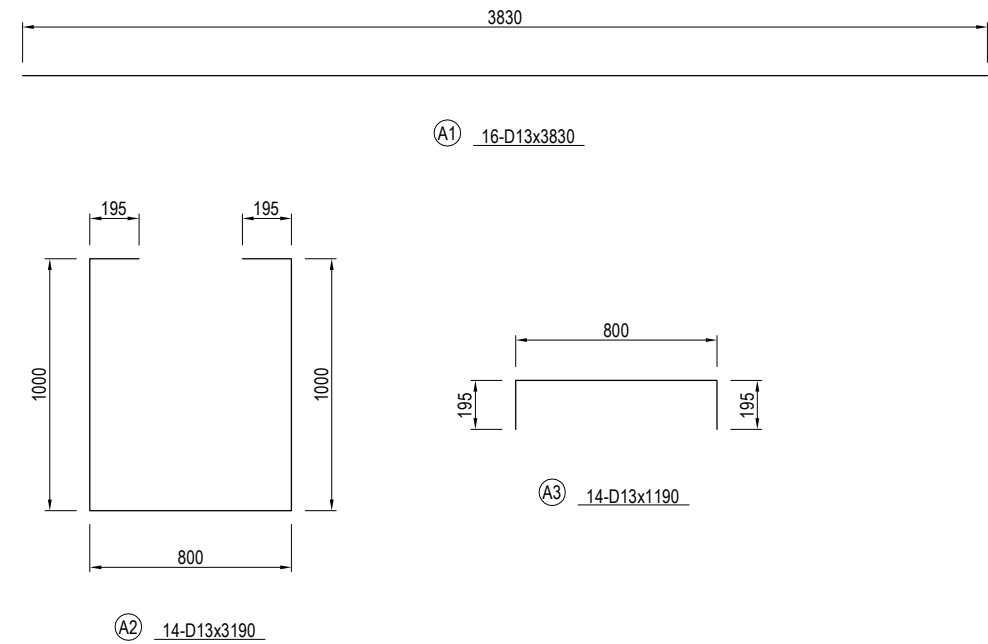


Note
 1. Specification of Reinforced Concrete should be CLASS DII
 2. Specification of Steel reinforcement bar should be SD345

PLAN VIEW OF BASEMENT



REBAR PROCESSING DRAWING



QUANTITY PER 1each

Title	Specification	Quantity	Description
Concrete	D II	4.80 m ³	
Reinforcing bar	D 13	121.99 kg	
Foundation	t=100	5.04 m ²	
Form		12.00 m ²	

PROJECT NAME
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 NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
**DETAIL OF INFORMATORY SIGNBOARD-TYPE A
 FOUNDATION AND POST (2) S=1:30**

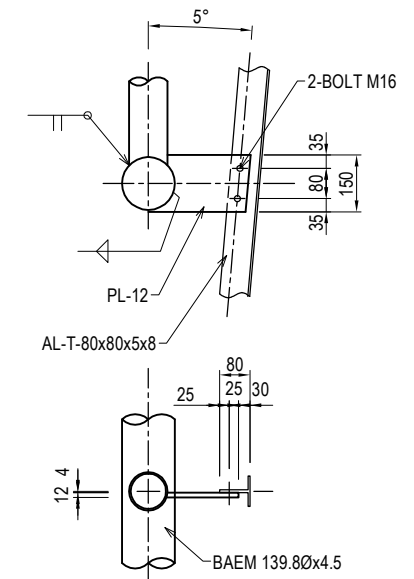
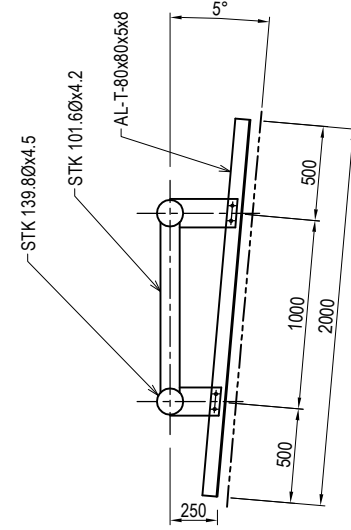
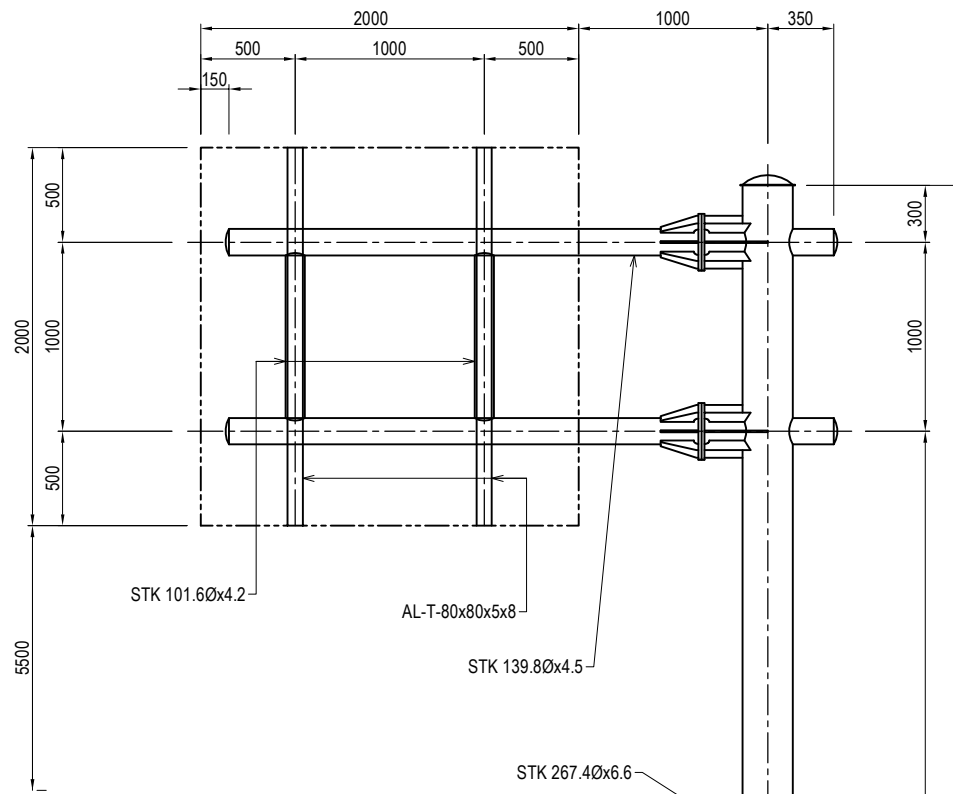
PACKAGE
 3
 DWG No.
 P3-RD-6080

DETAIL OF INFORMATORY SIGNBOARD-TYPE B FOUNDATION AND POST (1)

GENERAL VIEW S = 1:40

SECTION OF PANEL S = 1:40

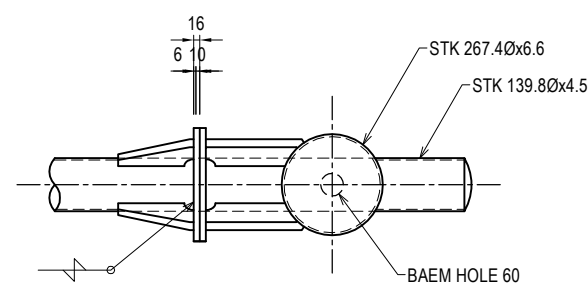
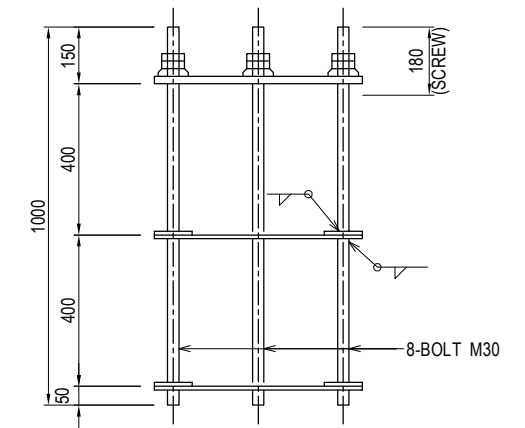
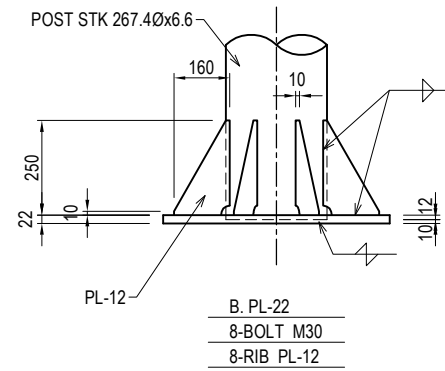
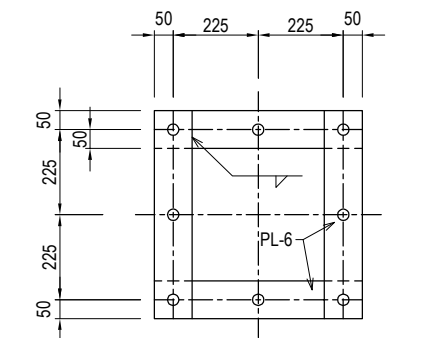
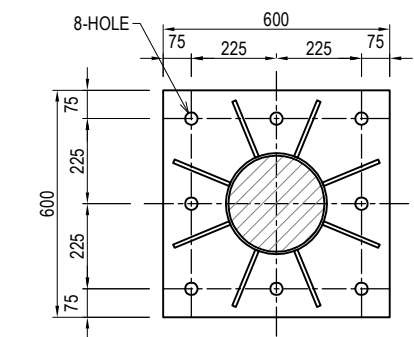
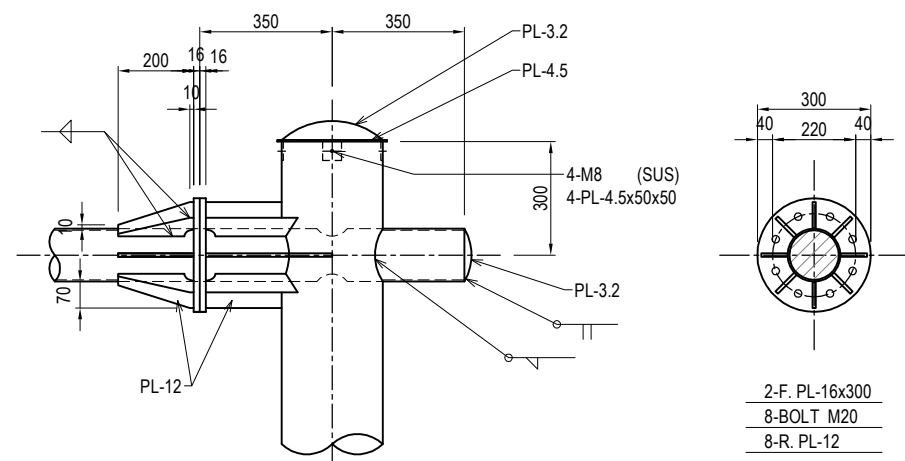
DETAIL OF MOUNTING BRACKET S = 1:20



DETAIL OF INTERACTION BETWEEN BEAM AND PILLAR S = 1:20

DETAIL OF COLUMN BASE S = 1:20

DETAIL OF ANCHOR BOLT S = 1:20

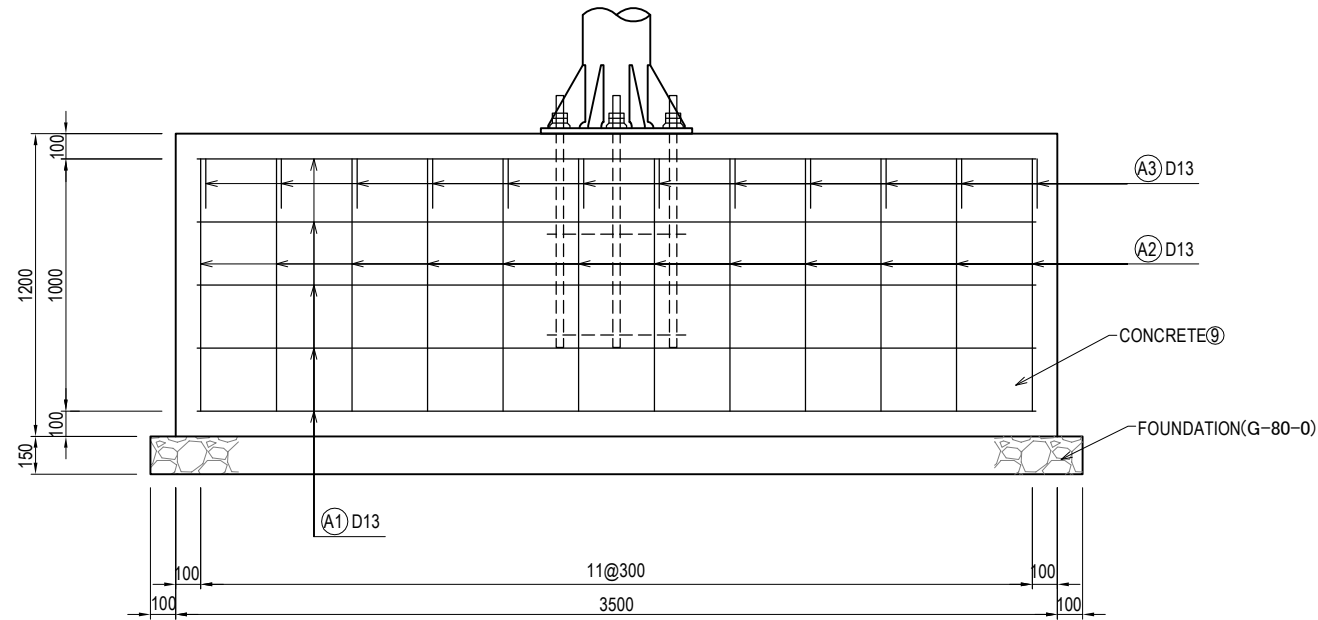


QUANTITY PER 1each

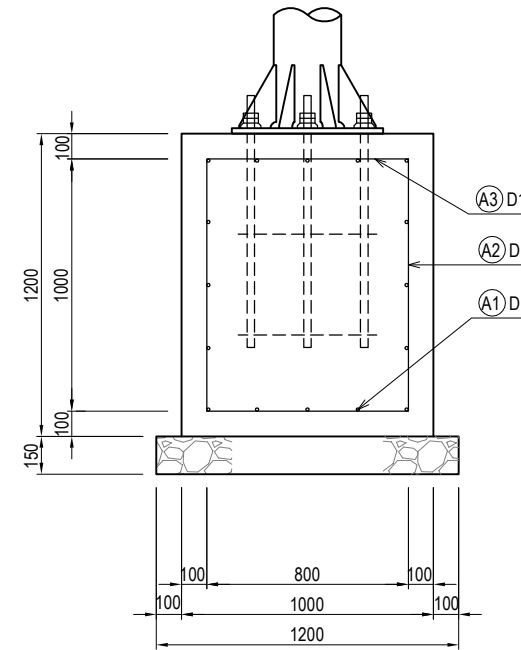
Title	Specification	Quantity	Description
Signboard	aluminium:t=2.0	1 each	Encapsulated lens type
Post	φ406.4 x 7300 x 6.4	309.52 kg	HDZ 55
Beam	φ190.7 x 4700 x 5.3	96.00 kg	HDZ 55
Post jointing	φ139.8 x 1000 x 4.5	20.20 kg	HDZ 55
Stiffener		209.92 kg	
Anchor bolt	M42 x 1000	48.40 kg	HDZ 55
Anchor bolt fixed frame	PL-100 x 700 x 6	20.72 kg	HDZ 55

DETAIL OF INFORMATORY SIGNBOARD-TYPE B FOUNDATION AND POST (2) S=1:30

FRONT VIEW OF BASEMENT

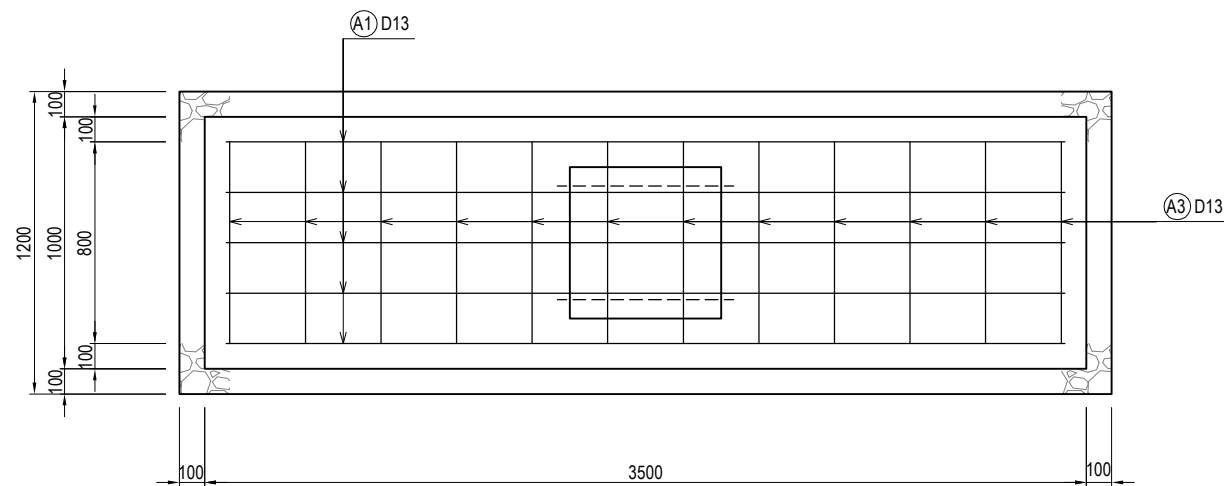


SIDE VIEW OF BASEMENT

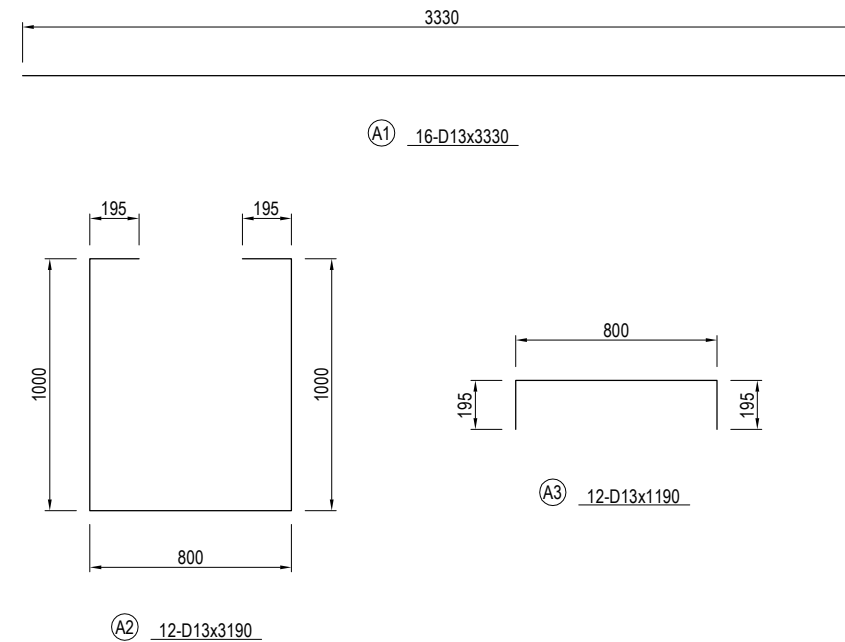


Note
 1. Specification of Reinforced Concrete should be CLASS DII
 2. Specification of Steel reinforcement bar should be SD345

PLAN VIEW OF BASEMENT



REBAR PROCESSING DRAWING



QUANTITY			PER 1each
Title	Specification	Quantity	Description
Concrete	D II	4.20 m ³	
Reinforcing bar	D 13	105.31 kg	
Foundation	t=100	4.44 m ²	
Form		10.80 m ²	

PROJECT NAME
 DETAILED DESIGN ON
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 MINISTRY OF CONSTRUCTION
 DEPARTMENT OF BRIDGE

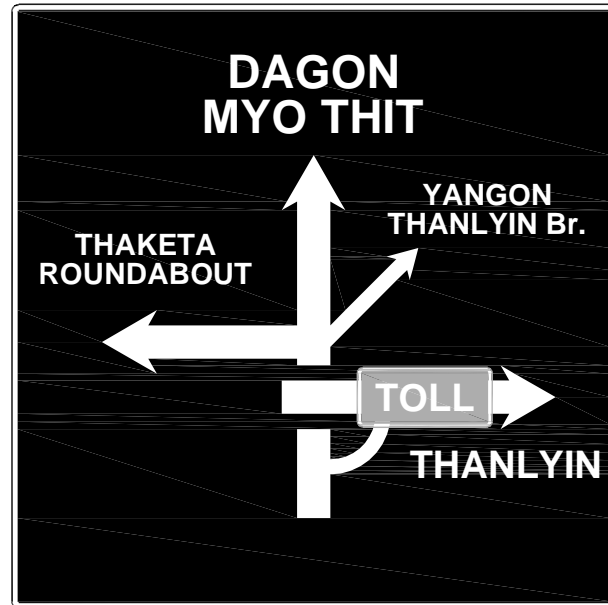
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
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 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO. LTD.
 NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

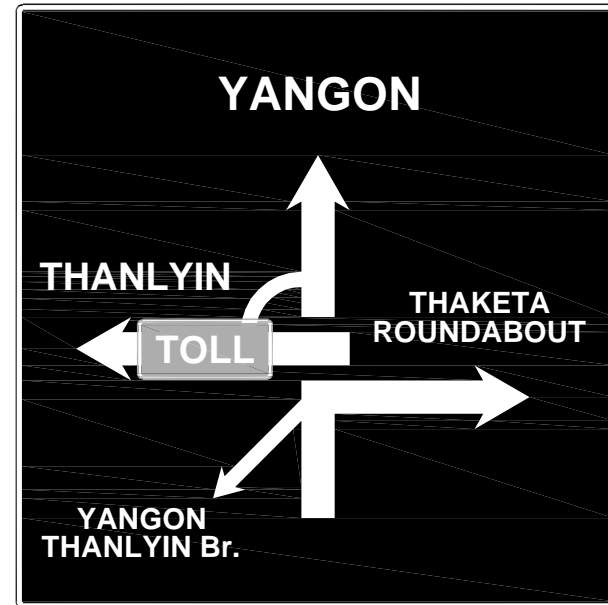
DRAWING TITLE
**DETAIL OF INFORMATORY SIGNBOARD-TYPE B
 FOUNDATION AND POST (2) S=1:30**

PACKAGE
 3
 DWG No.
 P3-RD-6100

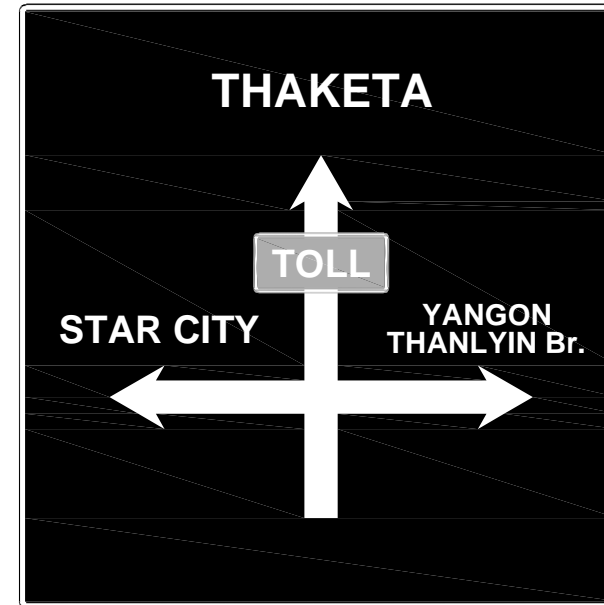
DETAIL OF INFORMATORY SIGNBOARD



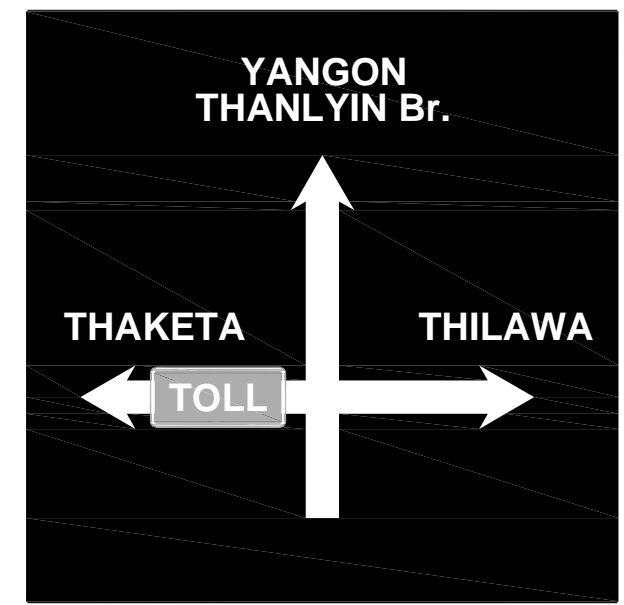
TYPE GS-5



TYPE GS-6



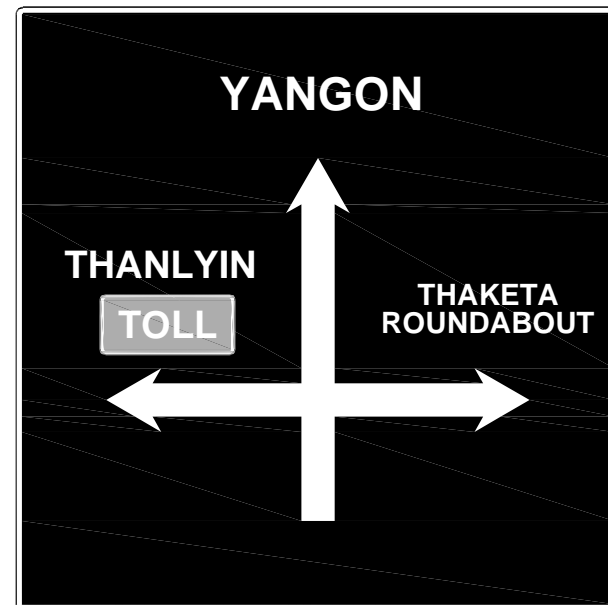
TYPE GS-7



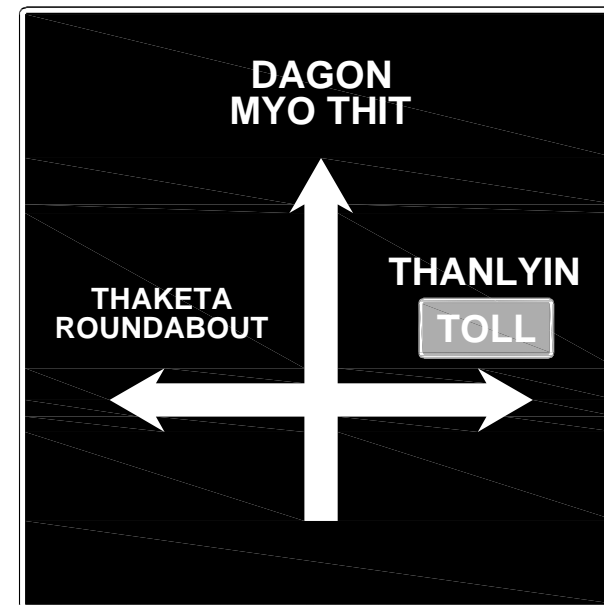
TYPE GS-8



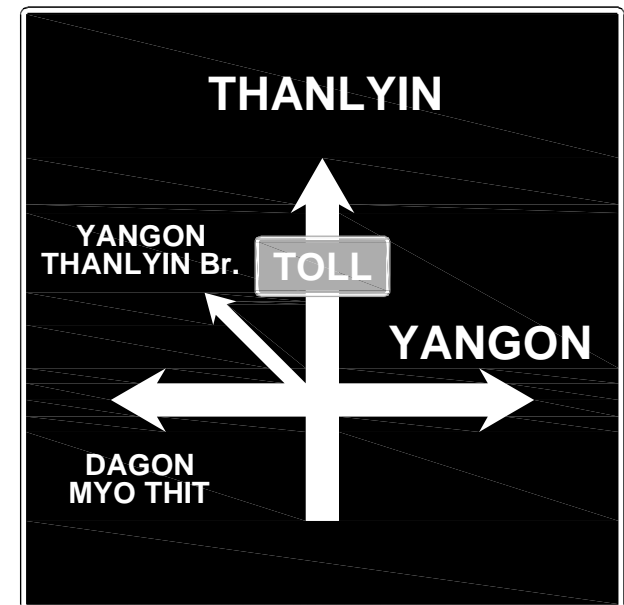
TYPE GS-1



TYPE GS-2




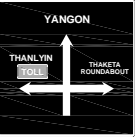




TYPE GS-3



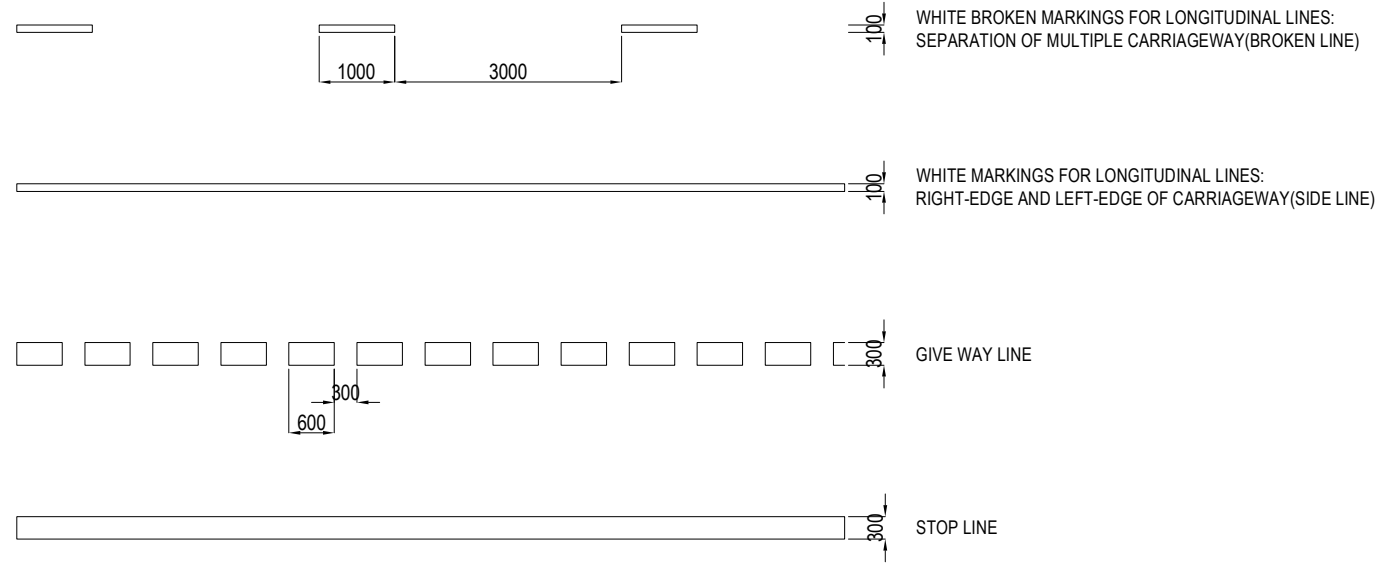
TYPE GS-4

COLORS: WHITE BLUE GREEN

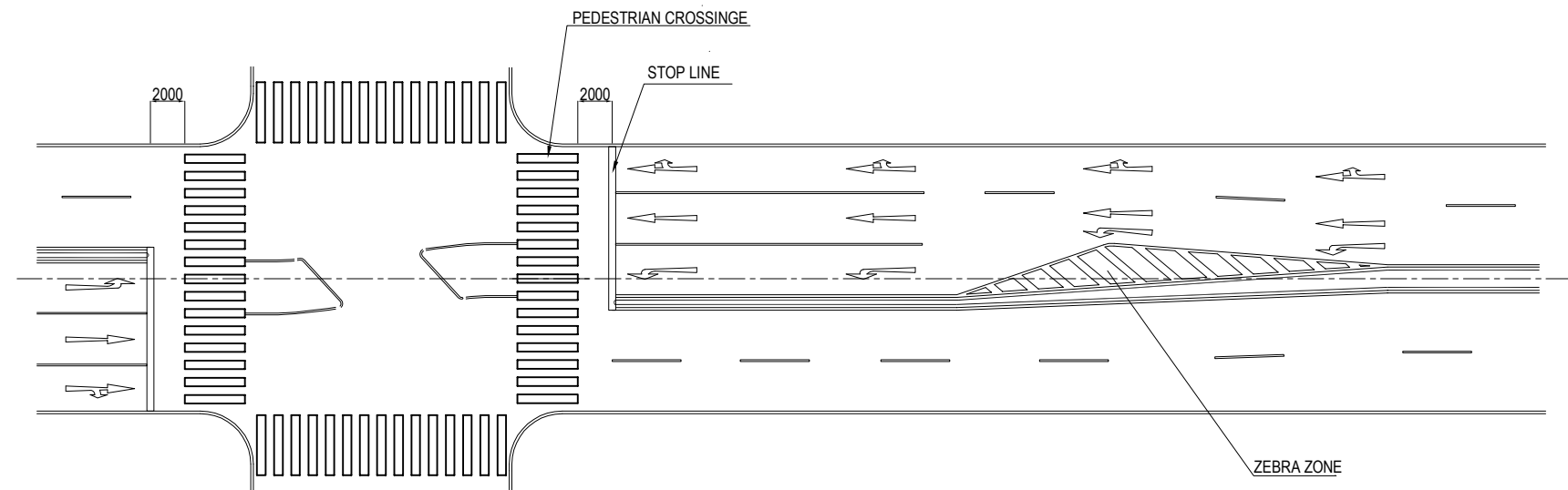
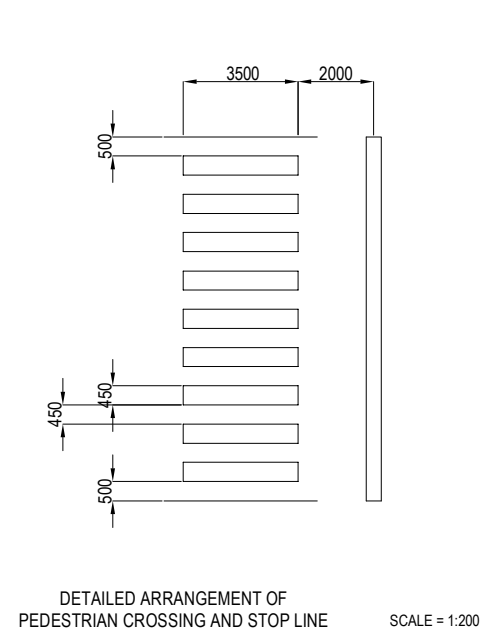
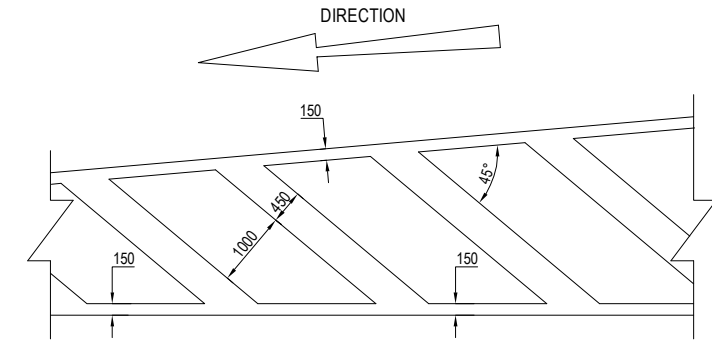
SCHEDULE OF INFORMATORY SIGNBOARD

ROAD SIGN		1		2		3		4		5		6		TOTAL QUANTITY OF SAME ITEM	FOUNDATION AND POST
		0+000 to -0+080		0+000 to 0+060		2+860 to 2+900		0+000 to -0+060		0+000 to 0+060		3+500 to 3+575			
		L	R	L	R	L	R	L	R	L	R	L	R		
ROAD		SHUKHINTHAR MAYO PAT ROAD		NAWARAT St		MAIN ROAD		YADANAR ROAD				MAIN ROAD			
SIGN		TYPE GS-1										1	1	1	TYPE A
		TYPE GS-2								1			1	1	TYPE B
		TYPE GS-3							1				1	1	TYPE B
		TYPE GS-4					1						1	1	TYPE A
		TYPE GS-5		1									1	1	TYPE B
		TYPE GS-6											1	1	TYPE B

ROAD MARKINGS DETAILS(1)



LINE MARKINGS SCALE = 1:100



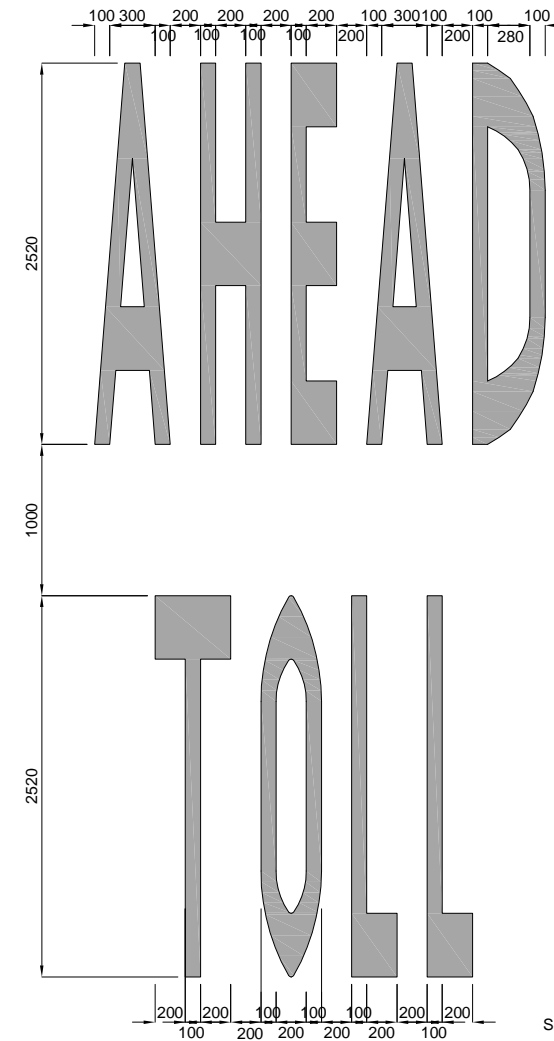
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JICA JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE ROAD MARKINGS DETAILS(1)	PACKAGE
				PREPARED BY	K. TACHIBANA	29 Sep.2017		3
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		DWG No.
				APPROVED BY	Y. SANO	6 Oct.2017		P0-RD-6130

ROAD MARKINGS DETAILS(2)



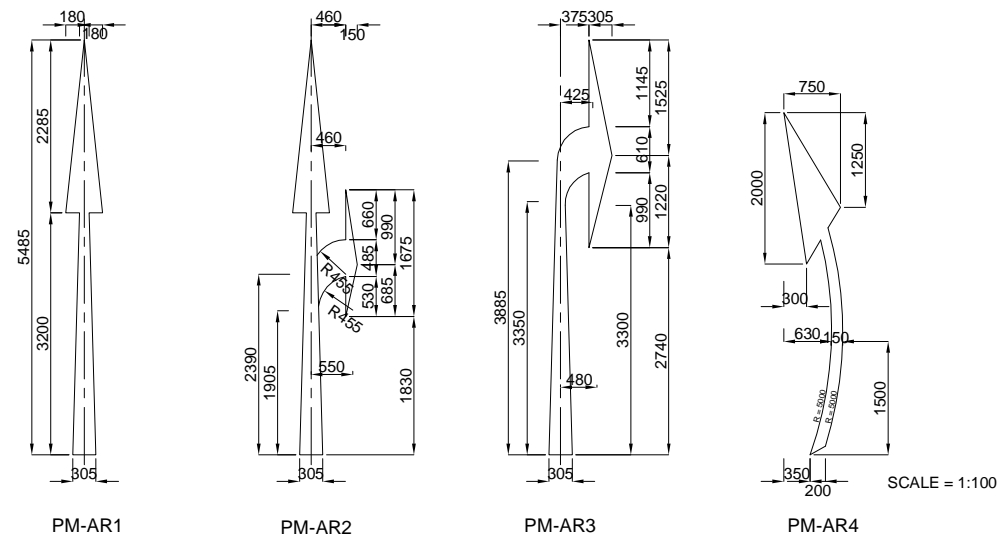
PM-1 SPEED LIMIT 30 KM/H PM-2 SPEED LIMIT 40 KM/H PM-3 SPEED LIMIT 60 KM/H

SCALE = 1:100



PM-4
TOLL AHEAD
REFERENCE SHALL BE MADE TO
DRAWING NO. PWD(RD)/SD91/20-1,
ROAD AND TRANSPORTATION DIVISION,
PUBLIC WORKS DEPARTMENT

SCALE = 1:50



PM-AR1 PM-AR2 PM-AR3 PM-AR4

SCALE = 1:100

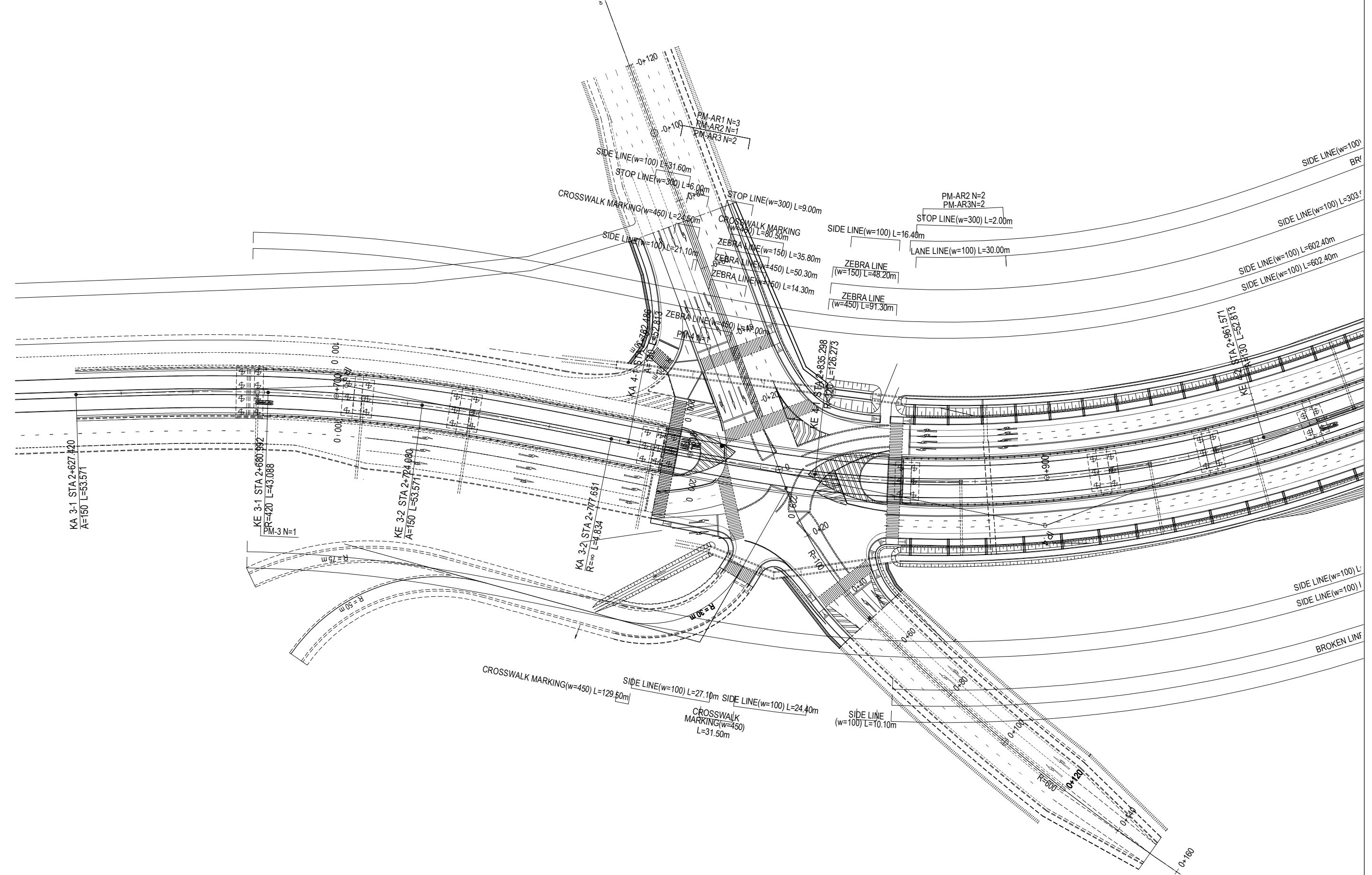
ARROW MARKS

REFERENCE SHALL BE MADE TO
DRAWING NO. PWD(RD)/SD91/8-2
ROAD AND TRANSPORTATION DIVISION,
PUBLIC WORKS DEPARTMENT

COLORS: WHITE ORANGE

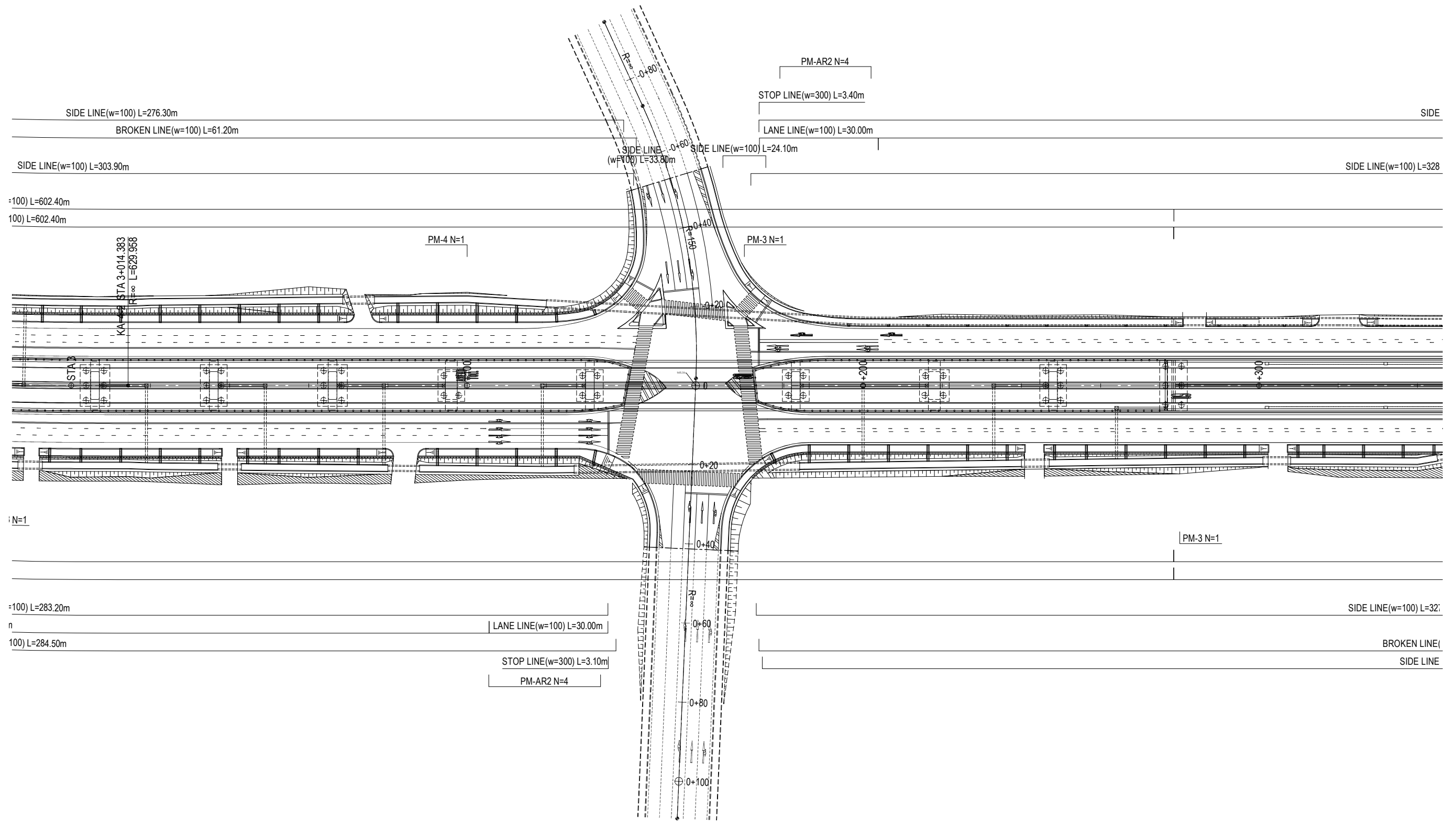
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE ROAD MARKING DETAILS (2)	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-6140

PLAN FOR ROAD MARKINGS(1) S= 1:1000



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE PLAN FOR ROAD MARKINGS(1) S=1:1000	PACKAGE 3 DWG No. P3-RD-6150	
				PREPARED BY	K. TACHIBANA				29 Sep.2017
				CHECKED BY	T. HAYAKAWA				3 Oct.2017
				APPROVED BY	Y. SANO				6 Oct.2017

PLAN FOR ROAD MARKINGS(2) S= 1:1000



PROJECT NAME
 DETAILED DESIGN ON
 BAGO RIVER BRIDGE
 CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
 COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
 MINISTRY OF CONSTRUCTION
 DEPARTMENT OF BRIDGE

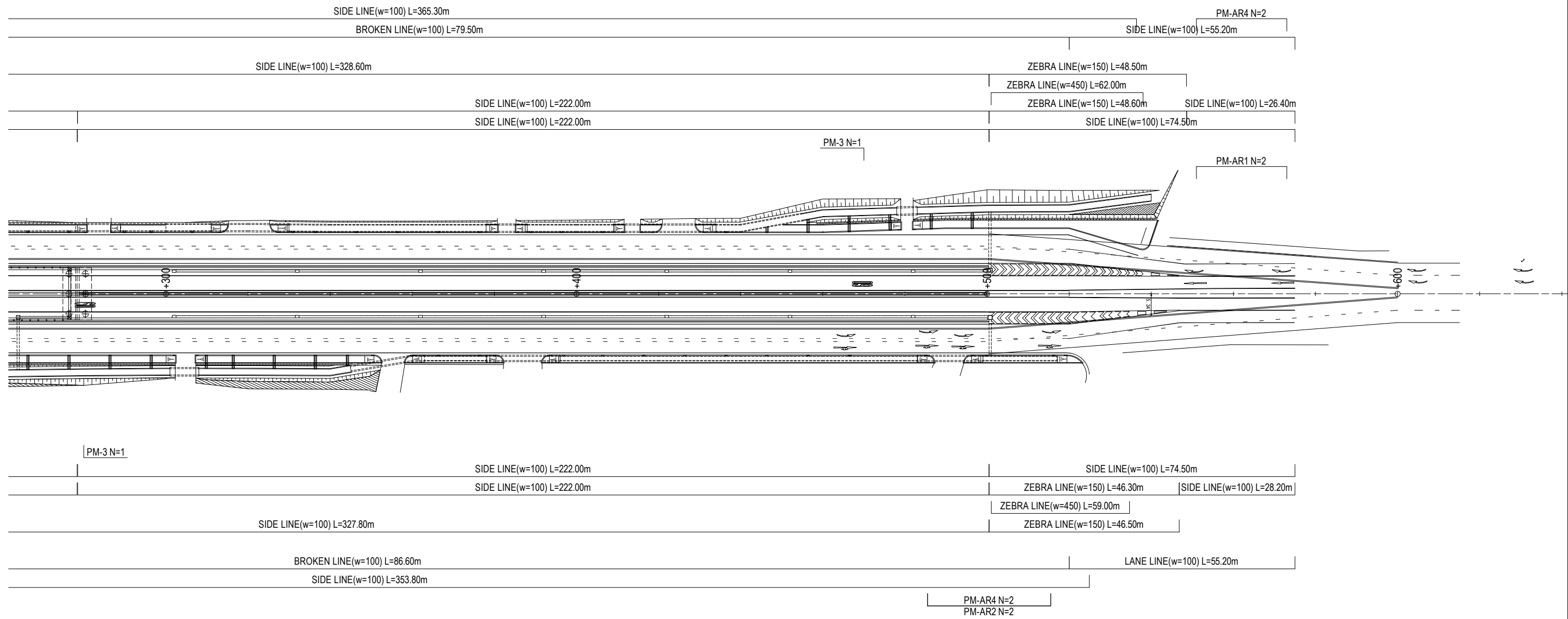
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO., LTD.
 NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
 PLAN FOR ROAD MARKINGS(2)
 S=1:1000

PACKAGE
 3
 DWG No.
 P3-RD-6160





PLAN FOR ROAD MARKINGS(3) S= 1:1000



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE PLAN FOR ROAD MARKINGS(3) S=1:1000	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-6170

QUANTITY TABLE OF ROAD (REFERENCE DRAWING)

Construction type	Classification	standard	UNIT	Quantity			Remark	
				JICA				Total
				Side Road	Approach Road	Fly Over		
DIVISION 02 SITE WORKS								
	Demolition of Existing Concrete Structure (Unreinforced concrete)		m3	218			218	
	Demolition of Existing Concrete Structure Asphalt Pavement		m3	1,687			1,687	
	Clearing and Grubbing		m2	427			427	
DIVISION 03 EARTH WORKS								
	ROAD EARTH WORK							
	Excavation - Type 1 (Open Cut for Road)		m3	3,604			3,604	
	Backfill for Filled-up ground		m3	34			34	
	Gravel Removal		m3	396			396	
	Excavation - Type 1 (Open Cut for Road Structure)		m3		3,893		3,893	
	Backfill		m3		6,180		6,180	
DIVISION 04 WATERWAY WORKS								
	SIDE DITCH TYPE U-500x850 with Cover		m	37			37	
	SIDE DITCH TYPE U-300x300		m		81		81	
	SIDE DITCH TYPE U-300x300 TYPE V		m		82		82	
	CATCH PIT 500x500x500		each		14		14	
	CATCH PIT (C-DITCH) TYPE A		each		14		14	
	CONCRETE PIPE CULVERT φ300 (CON. 360°) TYPE B		m		385		385	
DIVISION 05 PAVEMENTS								
	Prime Coat		m2	3,951	2,383		6,334	
	Tack Coat		m2	3,951	2,220		6,171	
	Normal A/C Surface Course, thickness 5cm		m2	3,951	2,383		6,334	
	Normal A/C Subbase Course, thickness 5cm		m2	3,951	2,220		6,171	
	Aggregate Base thickness 15cm		m2	3,051			3,051	
	Aggregate Base thickness 25cm		m2		2,220		2,220	
	Aggregate Subbase thickness 25cm		m2	3,051	2,220		5,271	
	Aggregate Subbase thickness 30cm		m2	900			900	
	Concrete Plate for Sidewalk		m2	140			140	
	Sand(Side walk)		m2	140			140	
	Aggregate Base thickness 10cm(Sidewalk)		m2	140			140	
	Concrete Seal		m2	5,015			5,015	
	Median type A		m		221		221	
	Median type B		m	448			448	

Construction type	Classification	standard	UNIT	Quantity			Remark	
				JICA				Total
				Side Road	Approach Road	Fly Over		
DIVISION 08 MISCELLANEOUS								
	CONCRETE KERB TYPE A-1		m	1,929			1,929	
	CONCRETE KERB TYPE A-2		each	4			4	
	CONCRETE KERB TYPE A-3		m	44			44	
	CONCRETE KERB TYPE C		m	62			62	
	INFORMATORY SIGN BOARD -TypeA(Arm2.5m)		each	2			2	
	INFORMATORY SIGN BOARD -TypeB(Arm1.0m)		each	4			4	
	Boundary Fence		m			744	744	
	Fence Gate		each			11	11	
	Box Beam		m		25		25	
	LANE LINE(w=100)		m	145			145	
	SIDE LINE(w=100)		m	2,970	888	2,410	6,268	
	BROKEN LINE(w=100)		m	290			290	
	STOP LINE(w=300)		m	24			24	
	CROSSWALK ARKING(w=450)		m	266			266	
	ZEBRA LINE(w=150)		m	288			288	
	ZEBRA LINE(w=450)		m	280			280	
	ARROW		each	26			26	
			each		2	3	5	
			m2		7	11	18	
			each			2	2	
			m2			9	9	