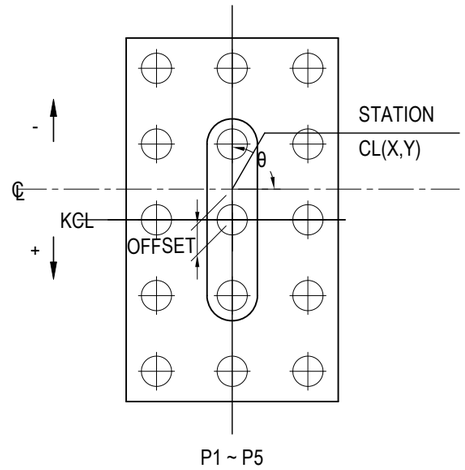
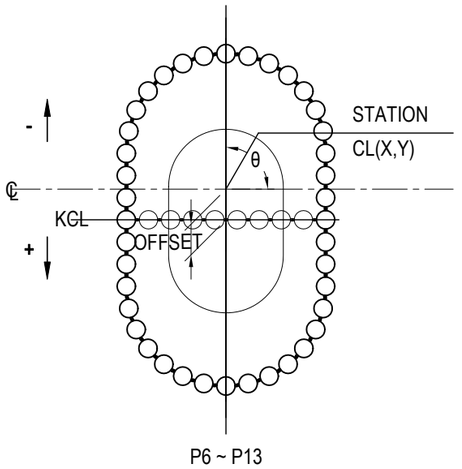
COORDINATES OF SUBSTRUCTURE (P6-P7)

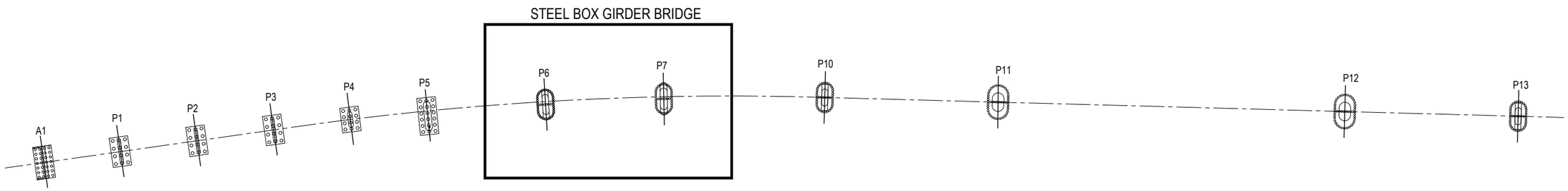
NAME		A1	P1	P2	P3	P4	P5	P6	P7	P10	P11	P12	P13
STATION		0+357.000	0+407.000	0+457.000	0+507.000	0+557.000	0+607.000	0+683.500	0+760.000	0+864.000	0+976.000	1+200.000	1+312.000
CL	X	1857470.9529	1857509.4534	1857547.9538	1857586.4543	1857625.1499	1857664.5904	1857726.3888	1857789.8660	1857878.6819	1857975.6469	1858169.5771	1858266.5422
	Y	205539.2366	205507.3350	205475.4334	205443.5317	205411.8684	205381.1387	205336.0555	205293.3684	205239.2819	205183.2304	205071.1274	205015.0759
AZIMUTH		230d 21′ 17.0″	230d 21′ 17.0″	230d 21′ 17.0″	230d 21′ 17.0″	231d 21′ 36.9″	232d 47′ 33.6″	234d 59′ 3.2″	237d 10′ 32.8″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″
SKEW ANGLE (θ)		90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″
OFFSET (m)		0.000	0.000	0.000	0.000	0.000	+4.000	+1.832	+0.538	0.000	0.000	0.000	0.000



P1 ~ P5



P6 ~ P13

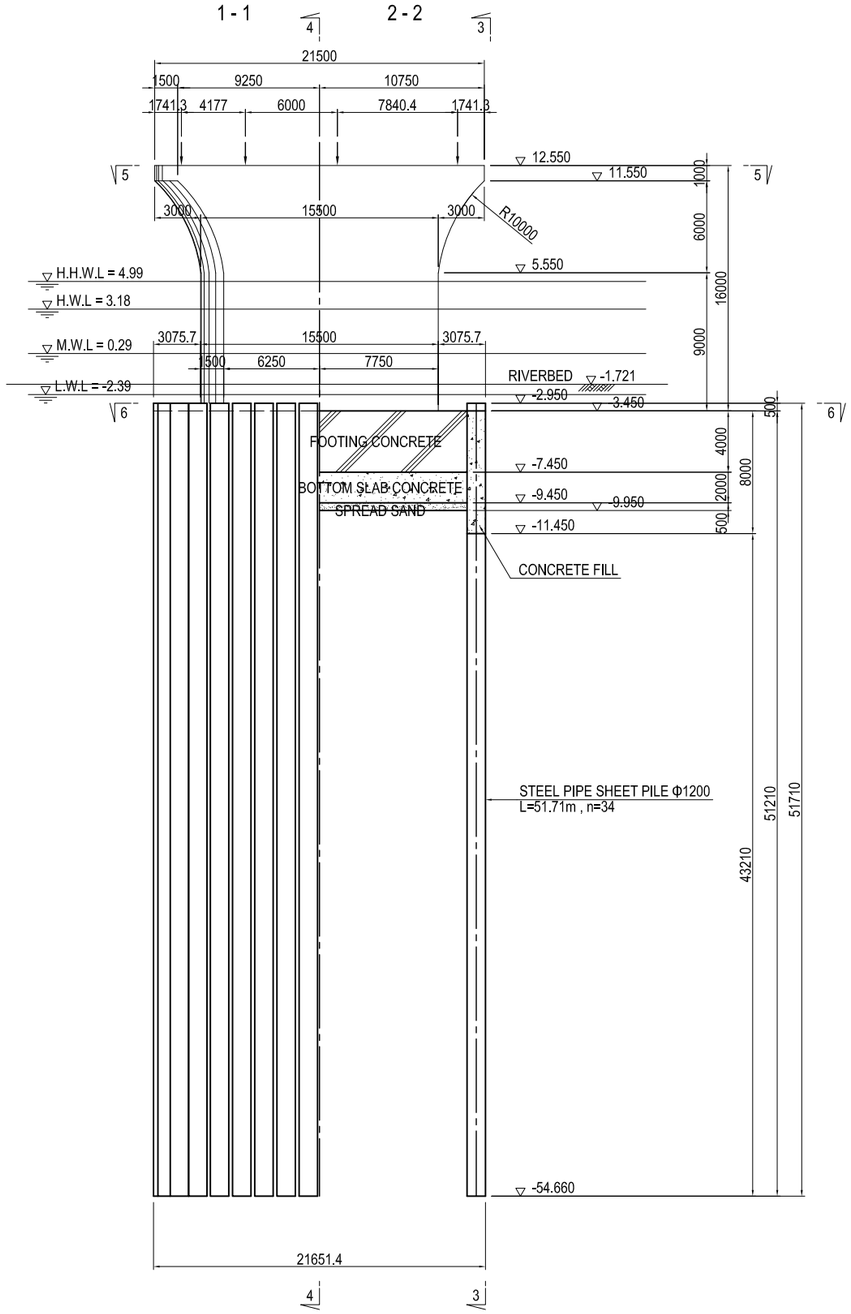


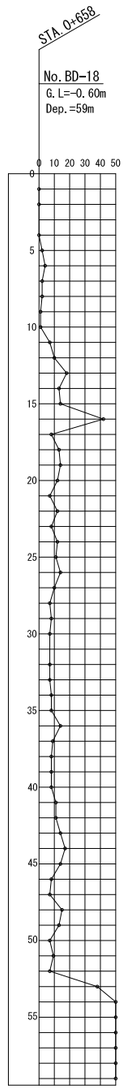
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S.IMADA		29 Sep. 2017	COORDINATES OF SUBSTRUCTURE (P6-P7)	1
CHECKED BY	T. HAYAKAWA		3 Oct. 2017		DWG No.
APPROVED BY	Y. SANO		6 Oct. 2017		P1-SB-2000

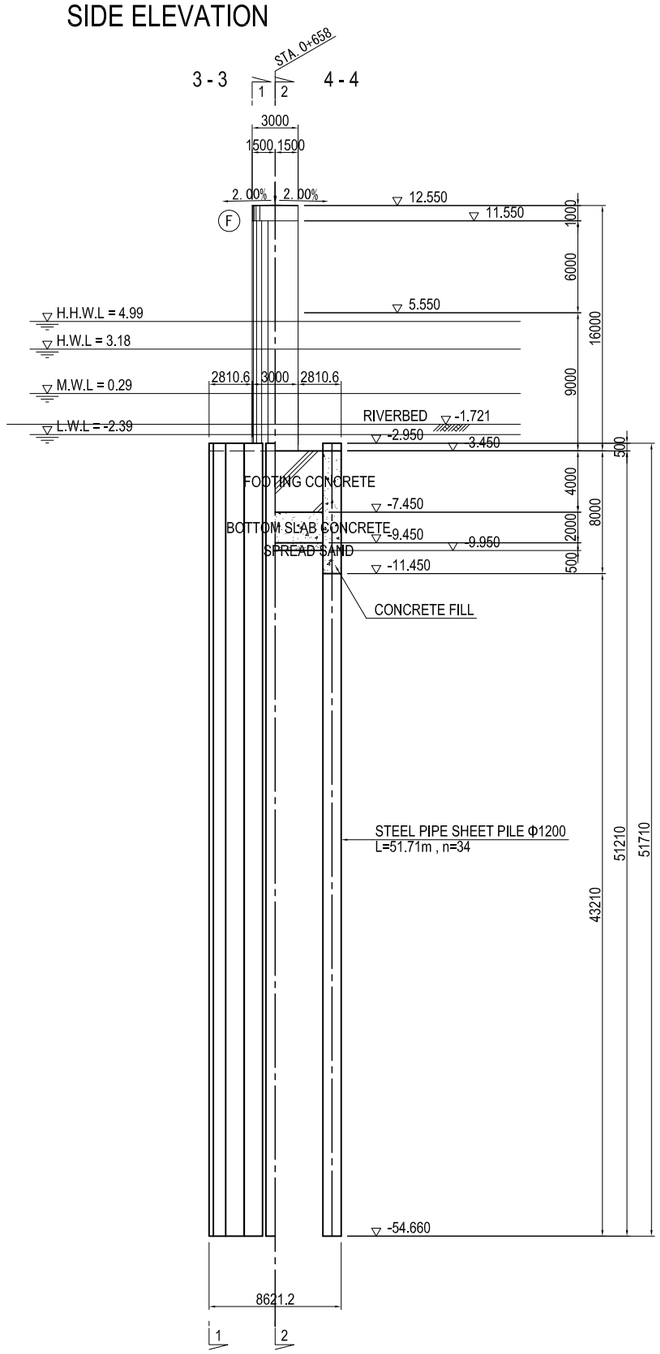
GENERAL VIEW OF P6 PIER (1) S=1:400

FRONT ELEVATION



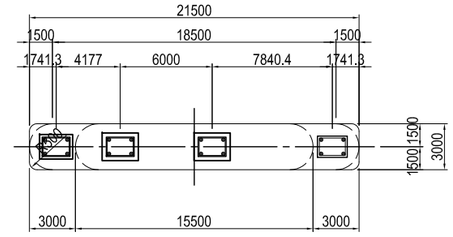


SIDE ELEVATION



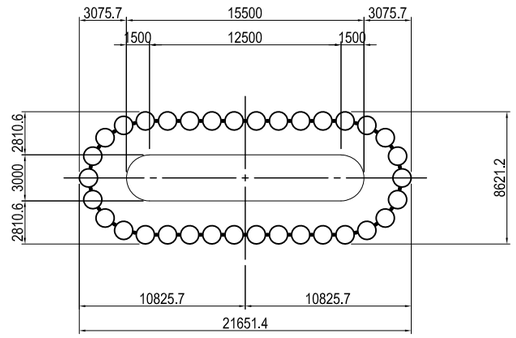
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD345
FOOTING	σck = 24 N/mm²	SD345

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.		

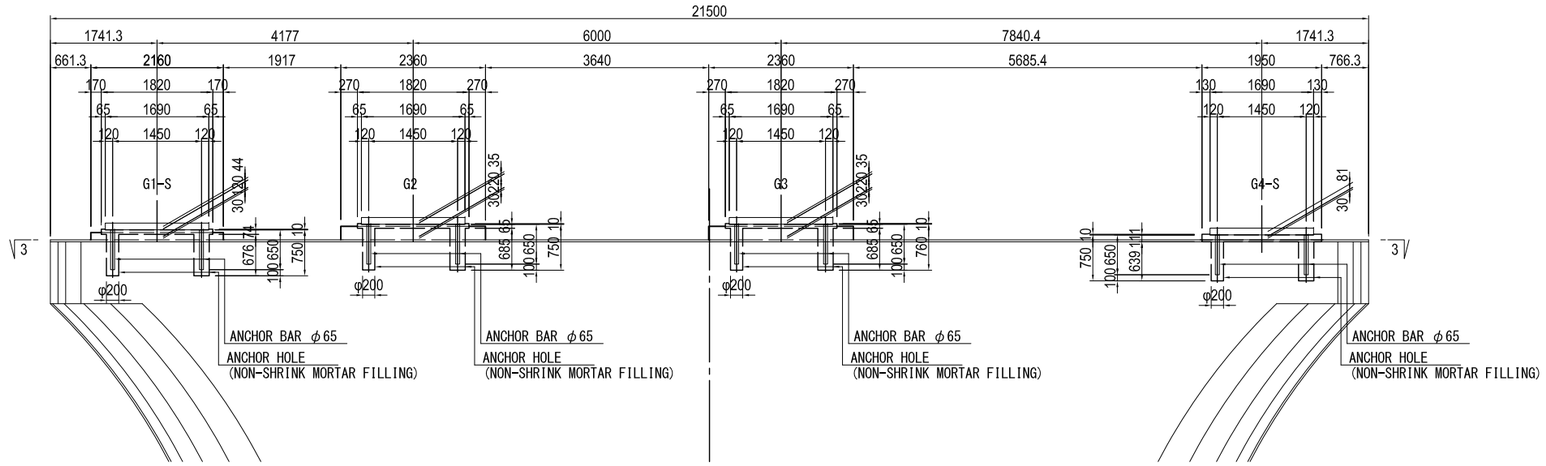
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF P6 PIER(1)	1
	DWG No.
	P1-SB-2001

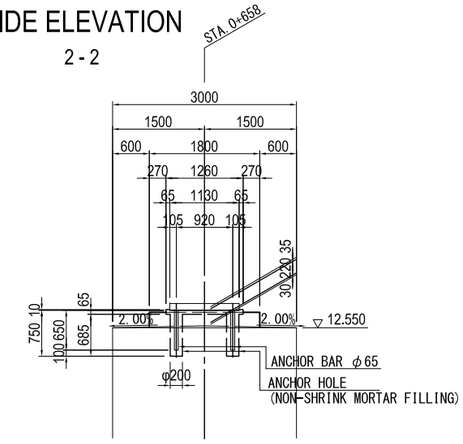
GENERAL VIEW OF P6 PIER (2) S=1:100

DETAIL OF BEARING AND ANCHOR

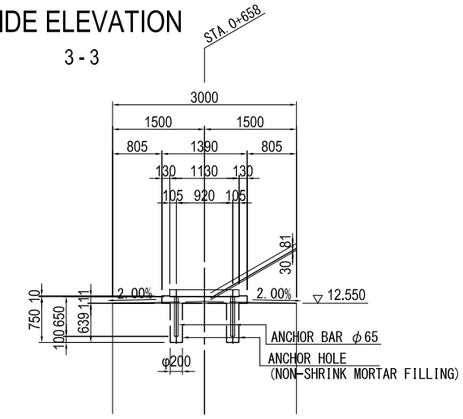
FRONT ELEVATION
1 - 1



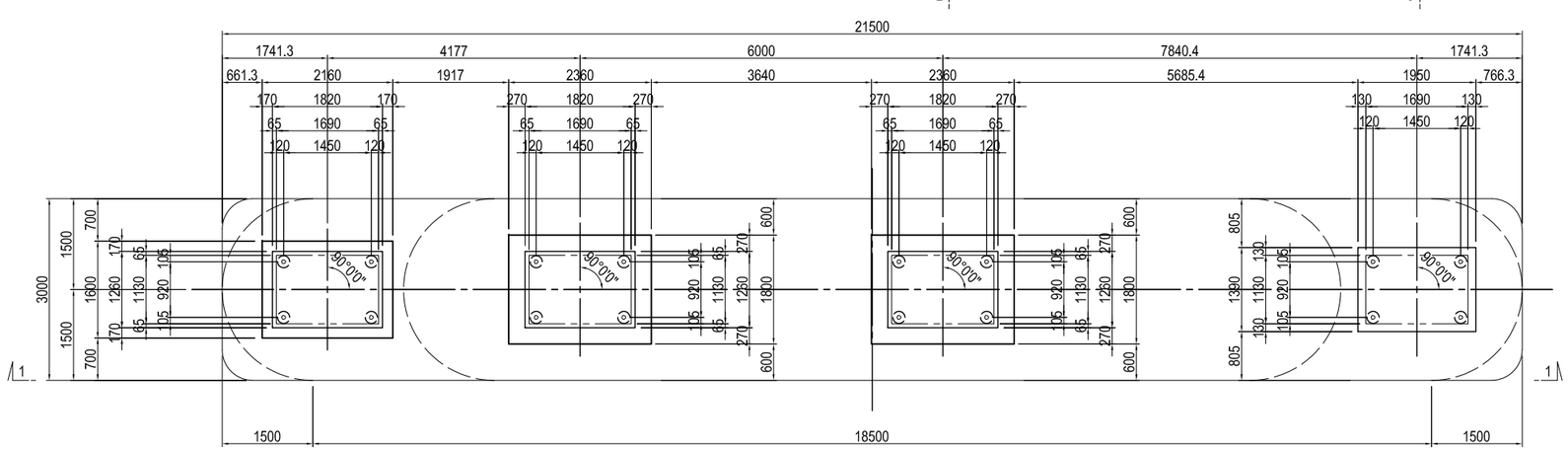
SIDE ELEVATION
2 - 2

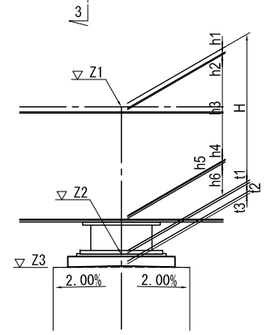


SIDE ELEVATION
3 - 3



PLAN
3 - 3





		P6 PIER			
		G1-S	G2	G3	G4-S
PROPOSED HEIGHT	Z1	16.083	16.167	16.167	16.010
PAVEMENT	h1	0.080	0.080	0.080	0.080
UPPER FLANGE	h2	0.016	0.016	0.016	0.016
GIRDER	h3	2.706	2.700	2.700	2.706
BOTTOM FLANGE	h4	0.015	0.014	0.014	0.025
SOLE PLATE	h5	0.038	0.038	0.038	0.038
BEARING	h6	0.484	0.484	0.484	0.484
SUBTOTAL	H	3.339	3.332	3.332	3.349
ELEVATION OF BEARING BOTTOM	Z2	12.744	12.835	12.835	12.661
MORTAR	t1	0.044	0.035	0.035	0.081
BEARING BASE	t2	0.120	0.220	0.220	0.000
DRAINAGE INCLINE	t3	0.030	0.030	0.030	0.030
ELEVATION OF PIER TOP	Z3	12.550	12.550	12.550	12.550

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.		

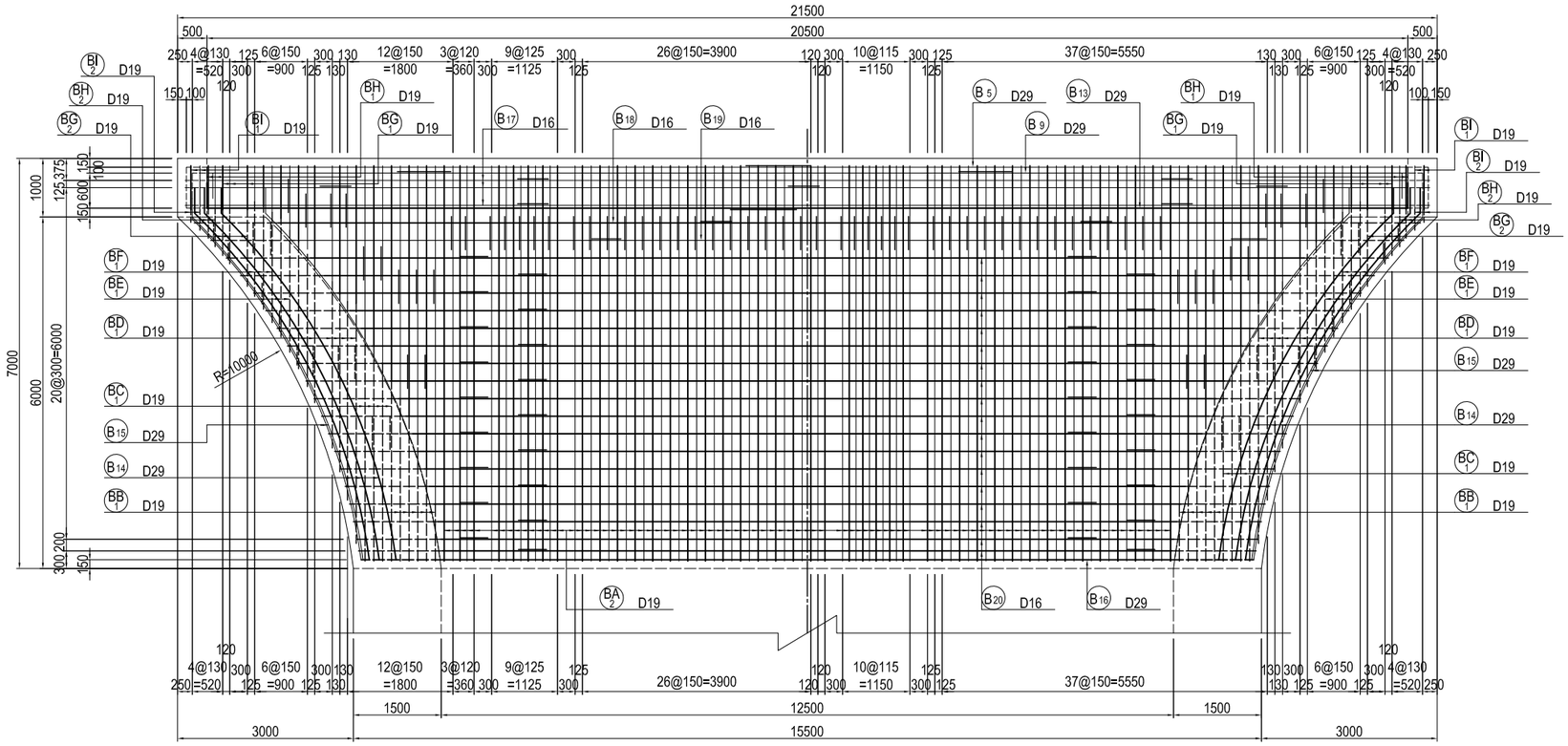
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF P6 PIER(2)	1
	DWG No.
	P1-SB-2002

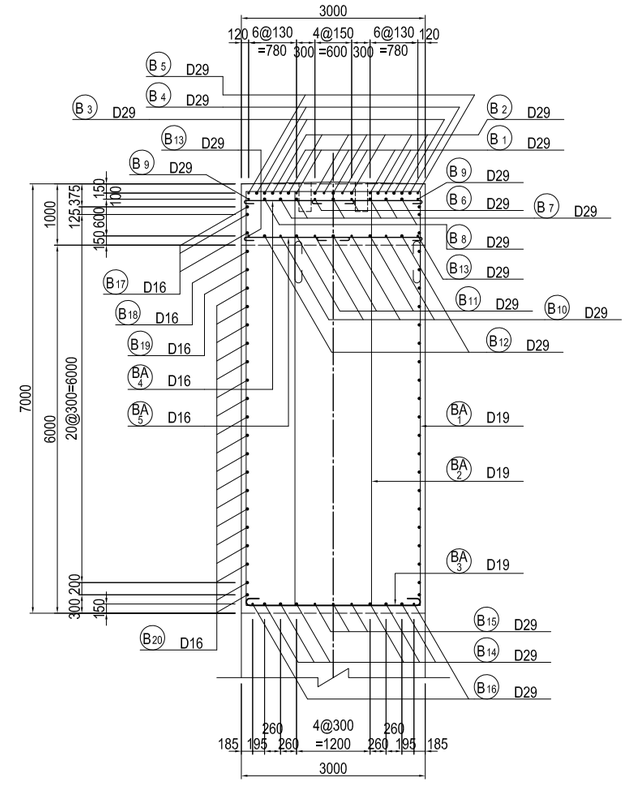
BAR ARRANGEMENT OF P6 PIER (1) S=1:100

BEAM

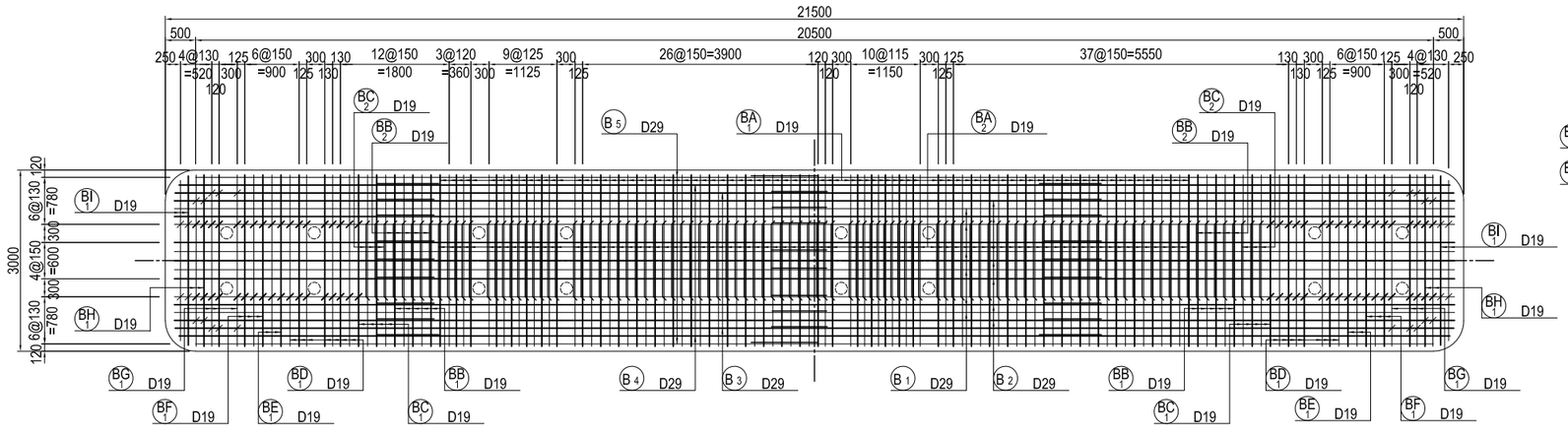
FRONT ELEVATION
1 - 1



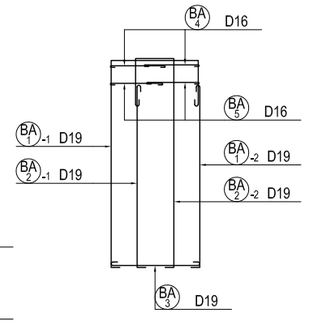
SECTION
3 - 3



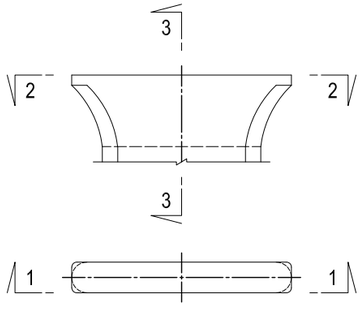
PLAN
2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

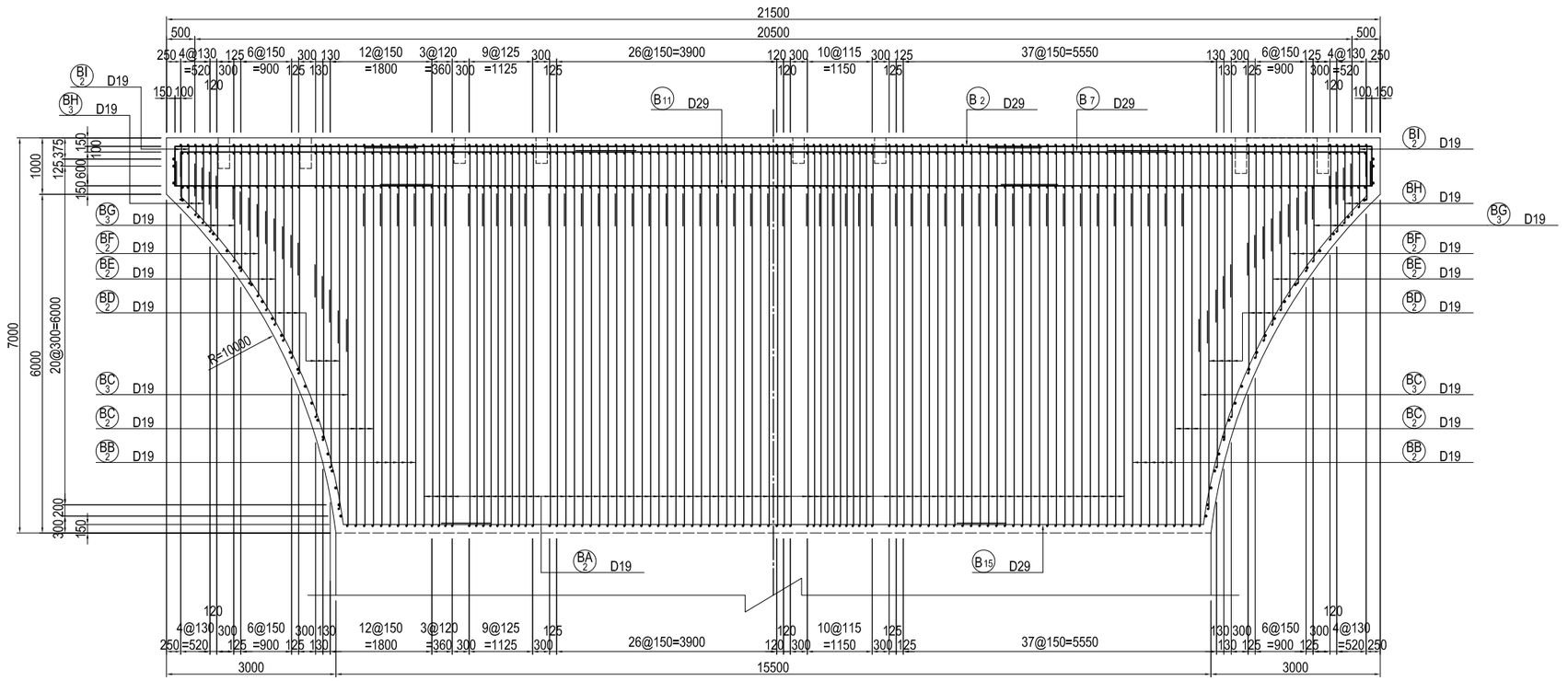
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: BAR ARRANGEMENT OF P6 PIER (1)	PACKAGE: 1 / DWG No.: P1-SB-2003

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

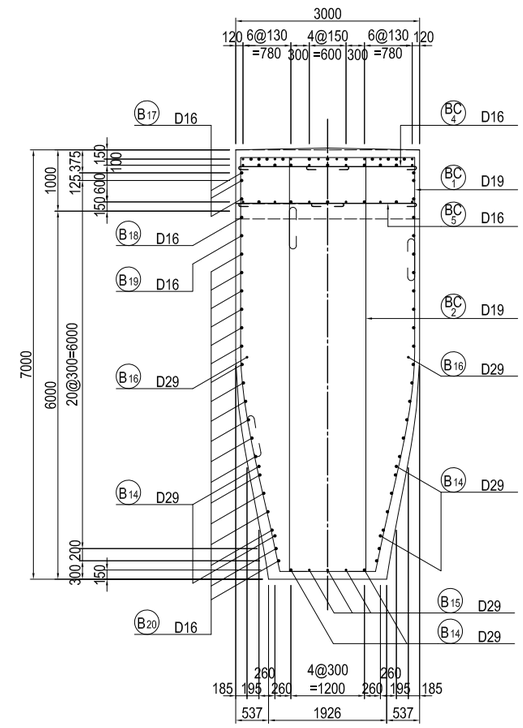
BAR ARRANGEMENT OF P6 PIER (2) S=1:100

BEAM

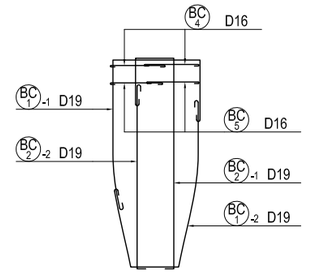
SECTION 4 - 4



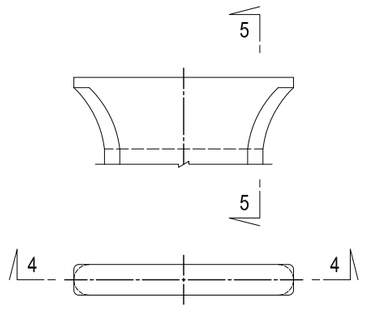
SECTION 5 - 5



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

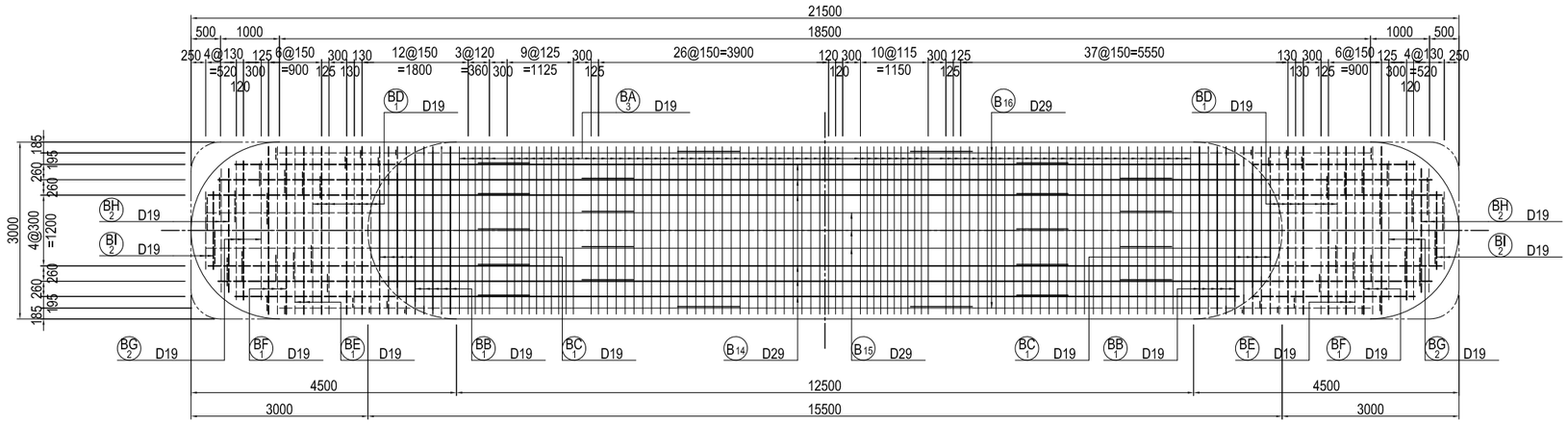
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (2)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2004

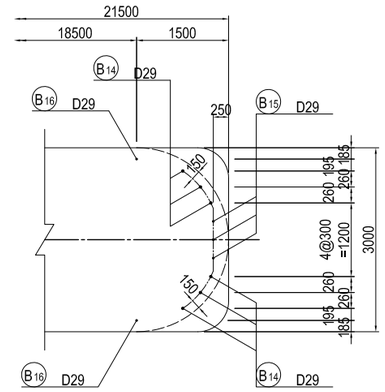
BAR ARRANGEMENT OF P6 PIER (3) S=1:100

BEAM

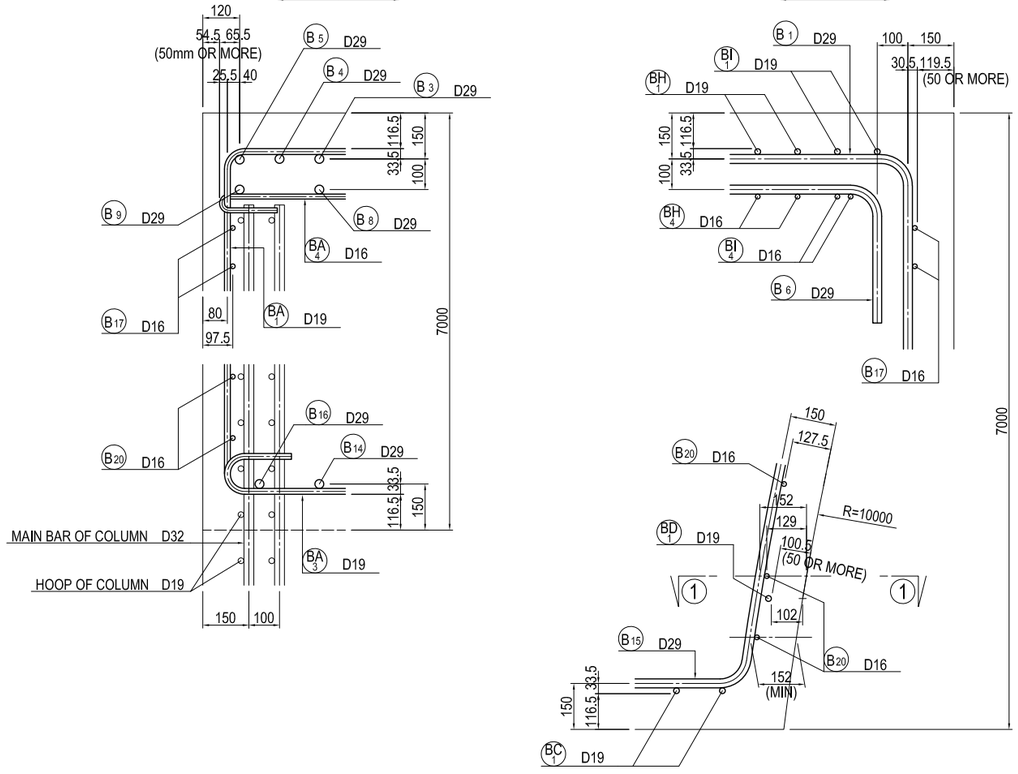
PLAN 6 - 6

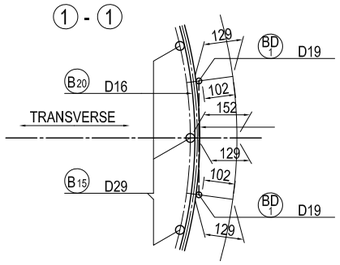


PLAN 7 - 7

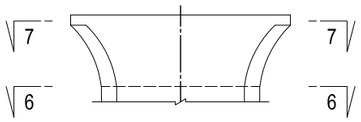


DETAIL OF BEAM S=1:20





MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

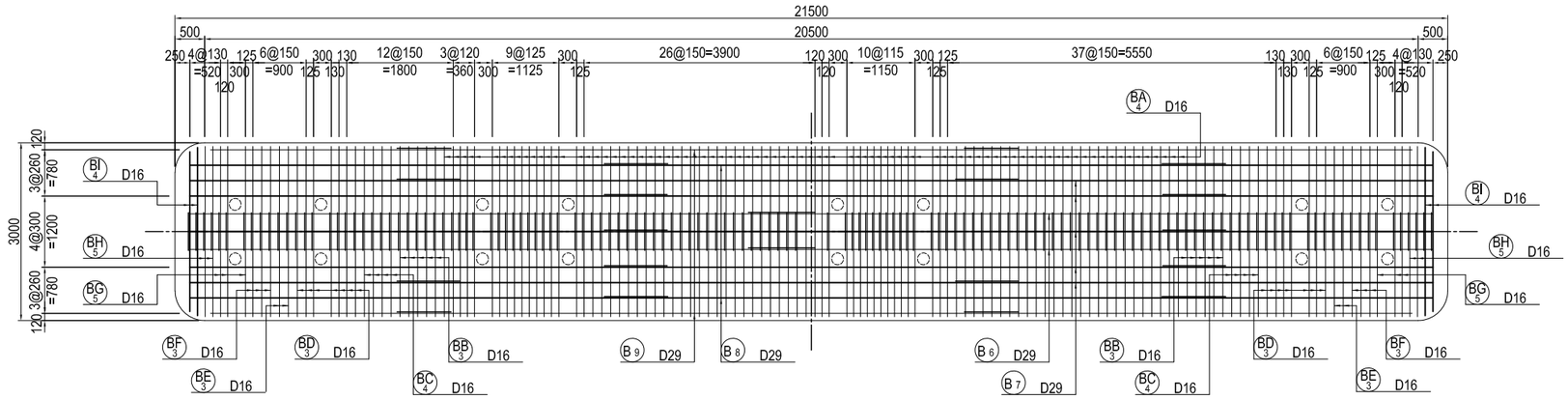
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (3)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2005

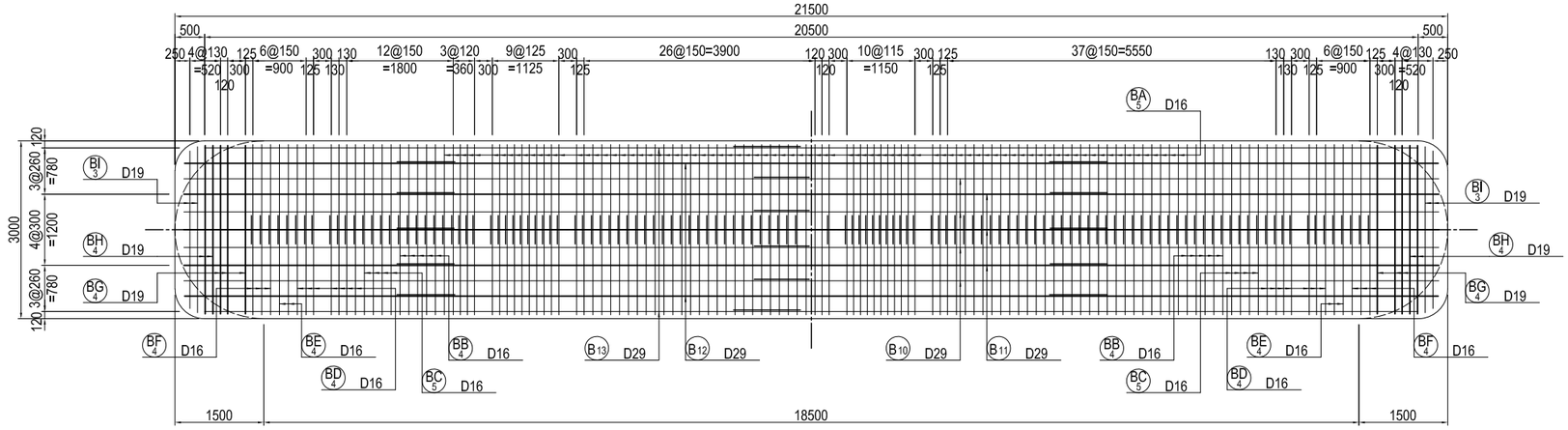
BAR ARRANGEMENT OF P6 PIER (4) S=1:100

BEAM

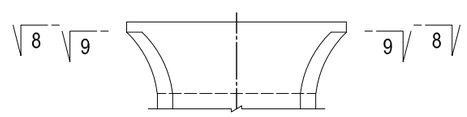
PLAN
8 - 8



PLAN
9 - 9



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

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	S. IMADA 27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (4) / 1
			CHECKED BY	T. HAYAKAWA 28 Nov.2017	DWG No.
			APPROVED BY	Y. SANO 29 Nov.2017	P1-SB-2006

BAR ARRANGEMENT OF P6 PIER (5) S=1:100

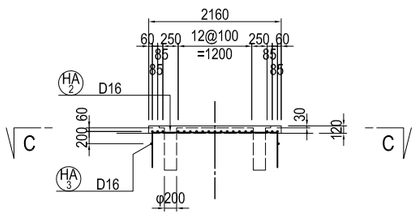
BEAM

BAR ARRANGEMENT OF BEARING BASE

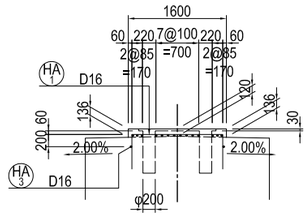
< G1-S >

SECTION

A - A



B - B



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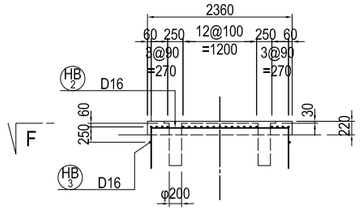
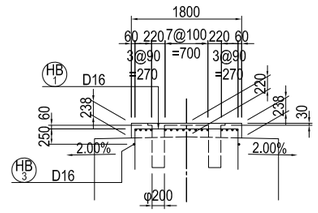
SECTION

D - D



E - E



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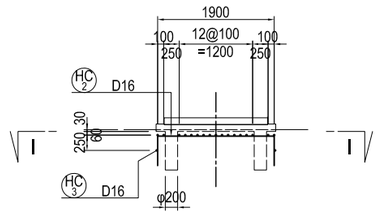
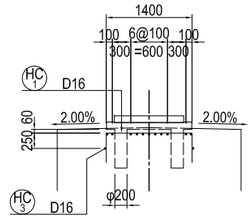
SECTION

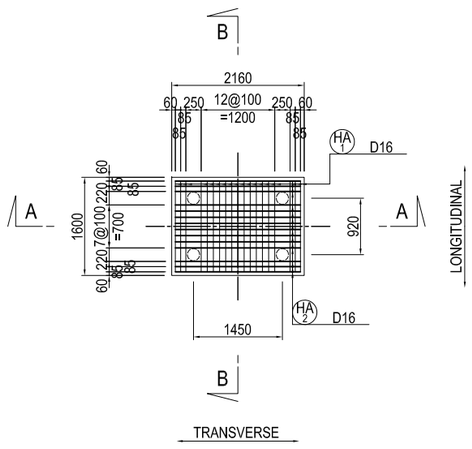
G - G

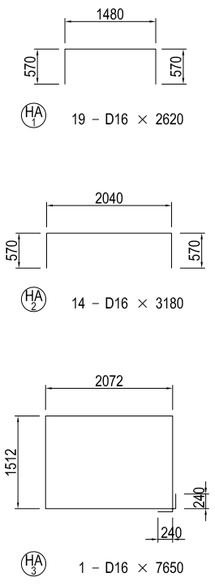


H - H

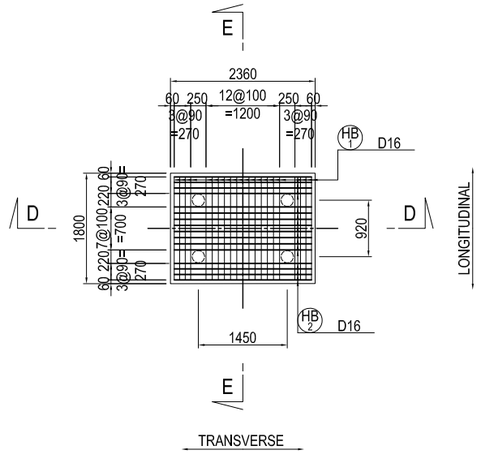


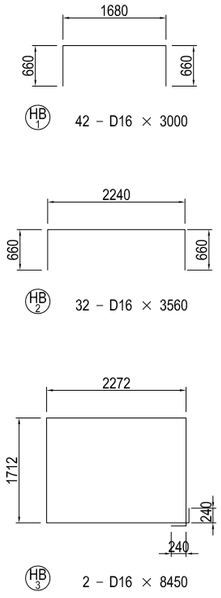
PLAN
C - C



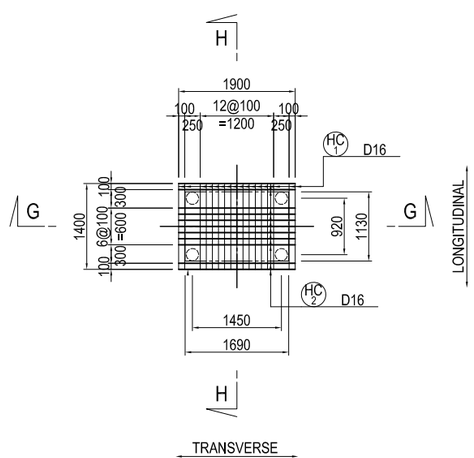


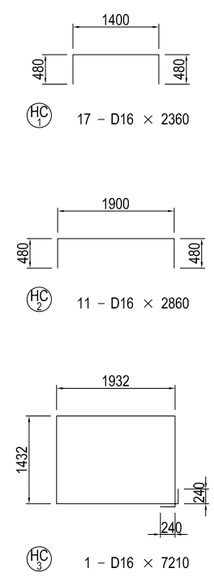
PLAN
F - F





PLAN
I - I





USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

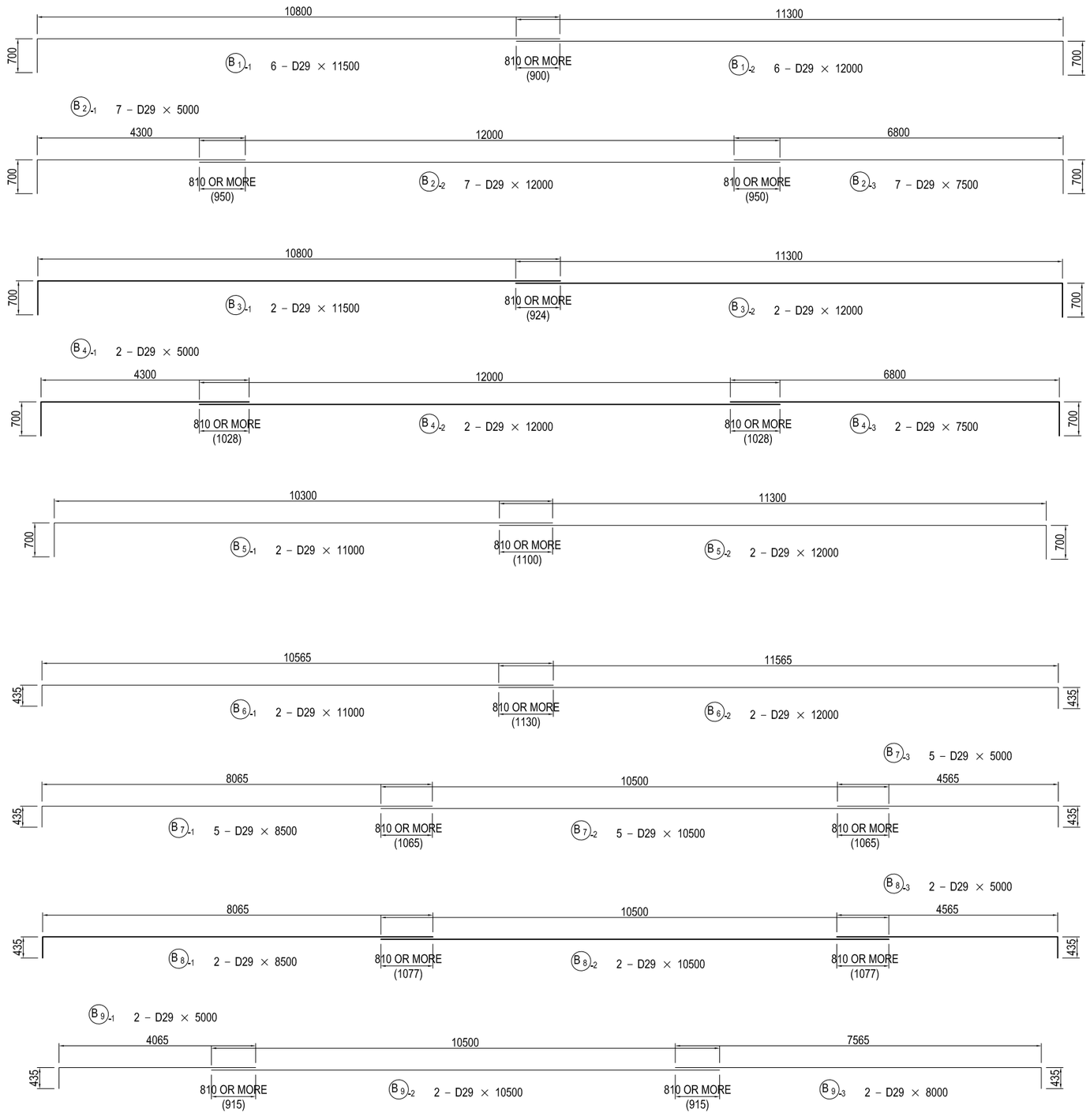
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA / 27 Nov.2017
				CHECKED BY	T. HAYAKAWA / 28 Nov.2017
				APPROVED BY	Y. SANO / 29 Nov.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P6 PIER (5)	1
	DWG No.
	P1-SB-2007

BAR ARRANGEMENT OF P6 PIER (6)

S=1:100

BEAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm²	SD345

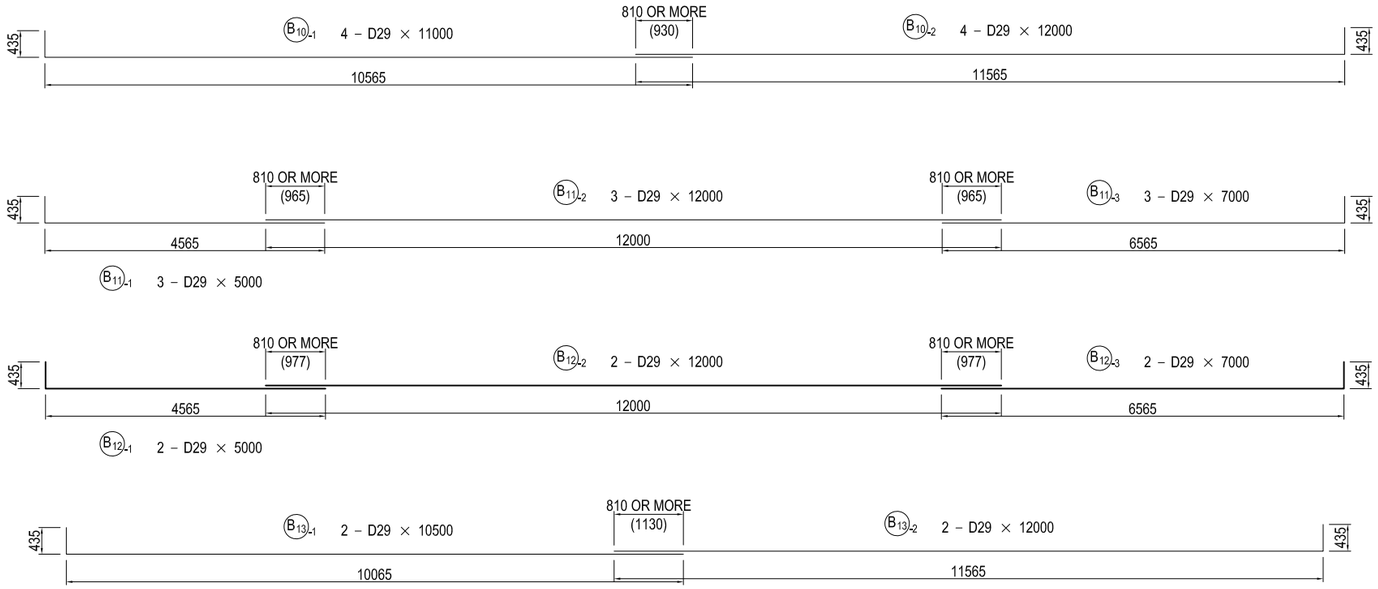
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

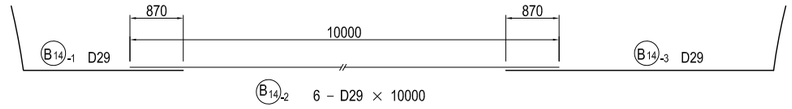
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (6)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2008

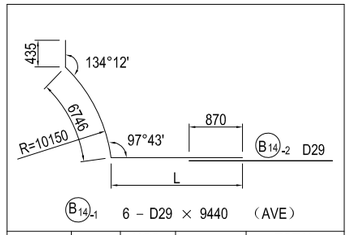
BAR ARRANGEMENT OF P6 PIER (7)

S=1:100

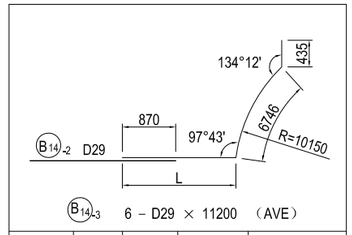
BEAM



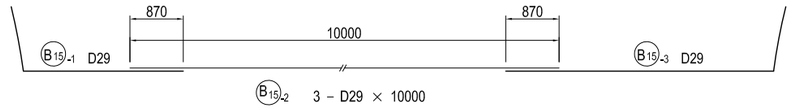


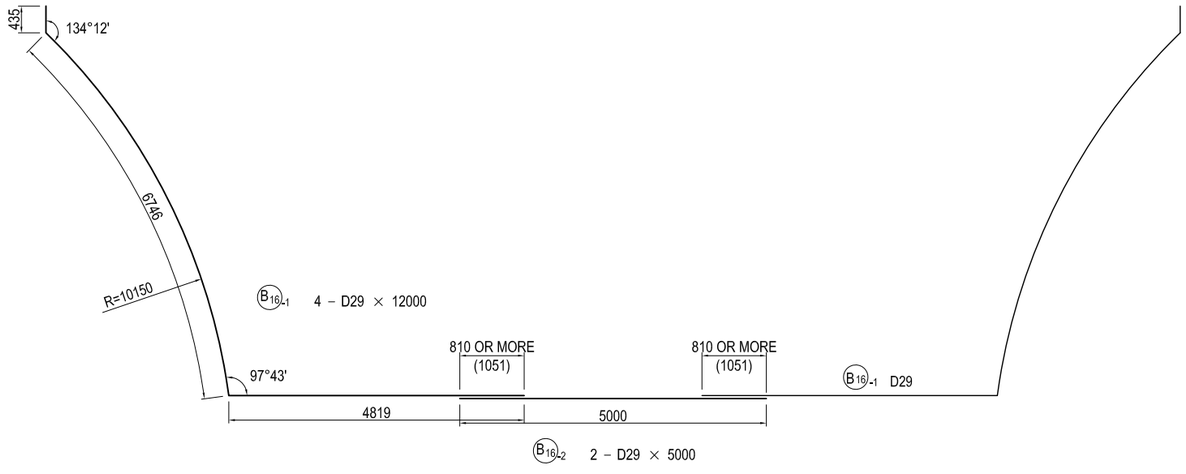


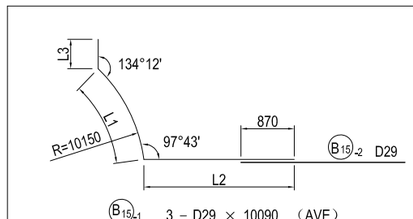
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B14-1 1	D29	2	2467	9648
2	"	2	2299	9480
3	"	2	2012	9193
AVE		6		9440



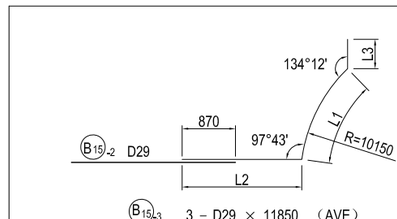
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B14-3 1	D29	2	4227	11408
2	"	2	4059	11240
3	"	2	3772	10953
AVE		6		11200







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B15-1 1	D29	1	6606	2608	885	10099
2	"	2	6654	2574	851	10079
AVE		3				10086



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B15-3 1	D29	1	6606	4368	885	11859
2	"	2	6654	4334	851	11839
AVE		3				11846

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

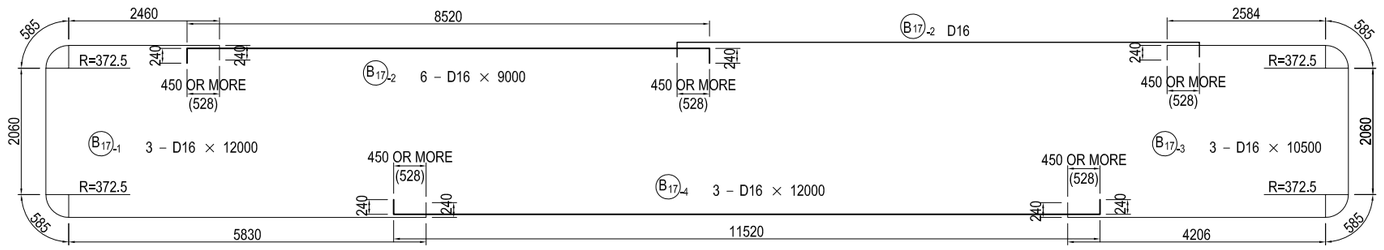
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

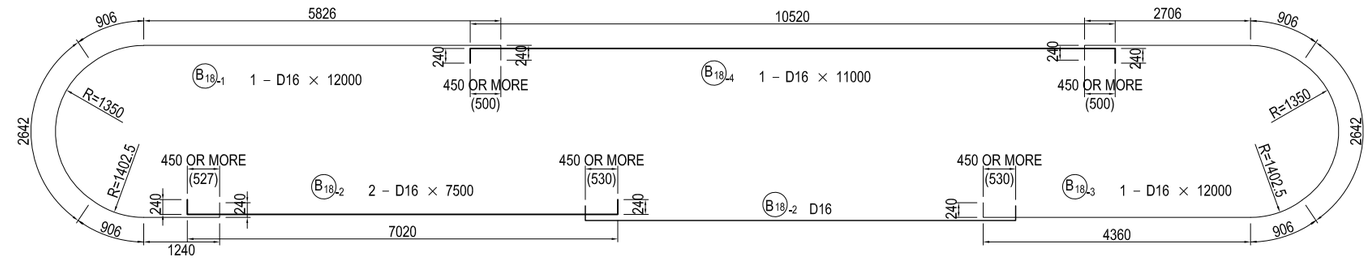
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P6 PIER (7)	1
	DWG No.
	P1-SB-2009

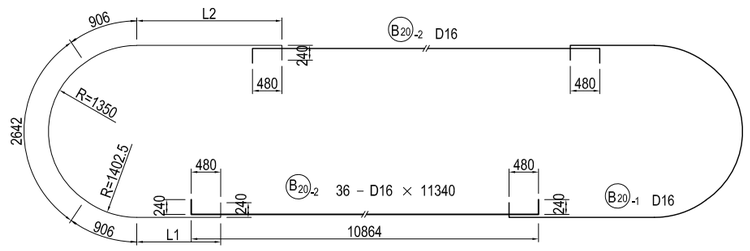
BAR ARRANGEMENT OF P6 PIER (8)

S=1:100

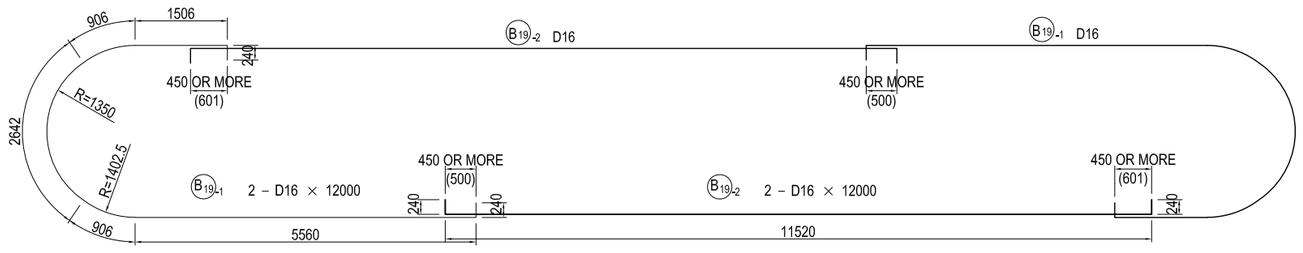
BEAM







B20-1 36 – D16 × 9180 （AVE）



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	TOTAL LENGTH ΣL
B20-1 1	D16	2	3028	4028	11990
2	"	2	2786	3786	11506
3	"	2	2562	3562	11058
4	"	2	2354	3354	10642
5	"	2	2162	3162	10258
6	"	2	1984	2984	9902
7	"	2	1820	2820	9574
8	"	2	1668	2668	9270
9	"	2	1529	2529	8992
10	"	2	1402	2402	8738
11	"	2	1285	2285	8504
12	"	2	1180	2180	8294
13	"	2	1084	2084	8102
14	"	2	999	1999	7932
15	"	2	924	1924	7782
16	"	2	858	1858	7650
17	"	2	802	1802	7538
18	"	2	770	1770	7474
AVE		36			9178

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

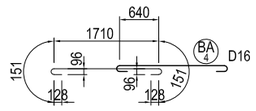
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

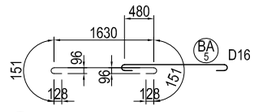
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P6 PIER (8)	1
	DWG No.
	P1-SB-2010

BAR ARRANGEMENT OF P6 PIER (9) S=1:100

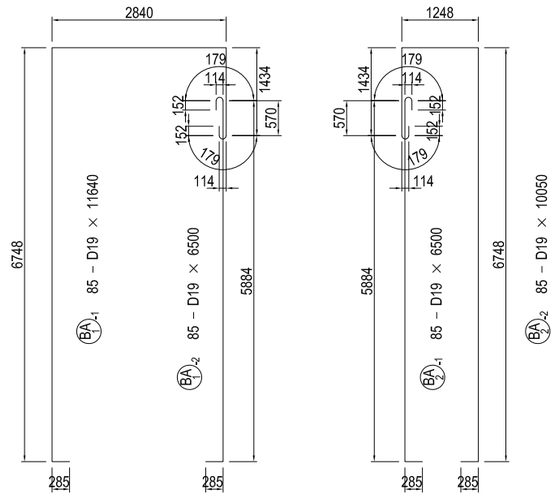
BEAM

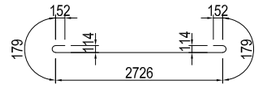


BA 4 170 – D16 × 2270

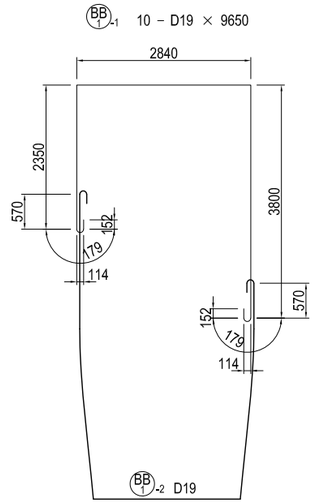


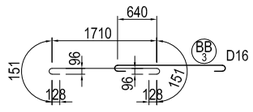
BA 5 170 – D16 × 2190



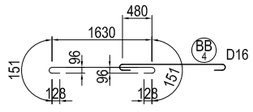


BA 3 85 – D19 × 3390

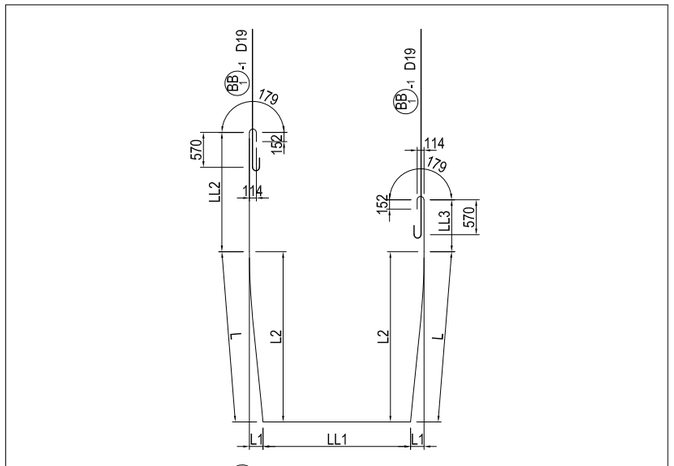




BB 3 20 – D16 × 2270



BB 4 20 – D16 × 2190



BB 1 -2 10 – D19 × 11810 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	LENGTH LL3	TOTAL LENGTH ΣL
BB1 -2 1	D19	2	974	8	974	2824	3994	2544	11972
2	"	2	1574	33	1574	2774	3394	1944	11922
3	"	2	2176	76	2174	2689	2794	1344	11841
4	"	2	2478	137	2474	2566	2494	1044	11722
5	"	2	2784	220	2774	2399	2194	744	11567
AVE		10							11805

USE MATERIALS

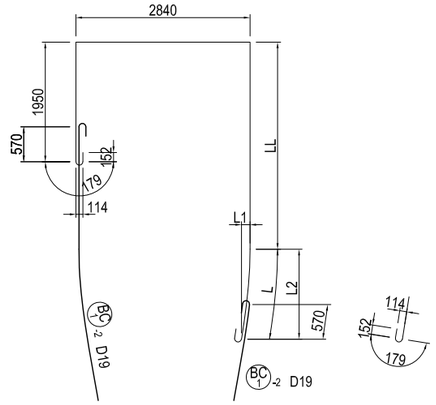
	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

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	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (9)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2011

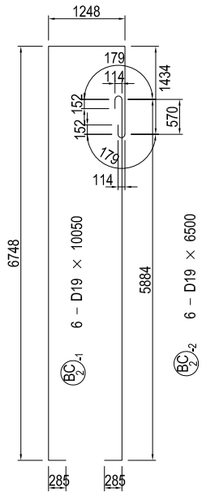
BAR ARRANGEMENT OF P6 PIER (10) S=1:100

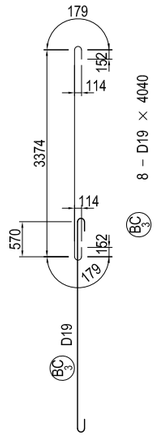
BEAM

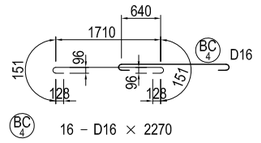


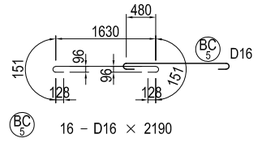
BC1-1 8 – D19 × 10300 （AVE）

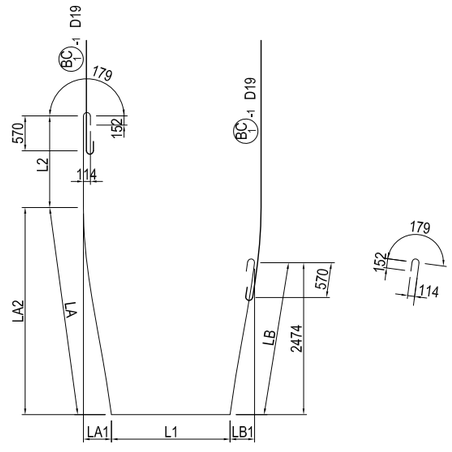
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D19	2	1171	77	1167	3674	10297
2	"	2	1472	138	1464	3374	10298
3	"	2	1777	220	1759	3074	10303
4	"	2	2085	324	2053	2774	10311
AVE		8					10302











BC1-2 8 – D19 × 10290 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH L1	LENGTH L2	TOTAL LENGTH ΣL
BC1-2 1	D19	2	3093	326	3074	2493	304	2189	2294	10731
2	"	2	3409	457	3374	2506	400	1925	1994	10496
3	"	2	3737	639	3674	2530	528	1562	1694	10185
4	"	2	4098	922	3974	2583	737	996	1394	9733
AVE		8								10286

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

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.

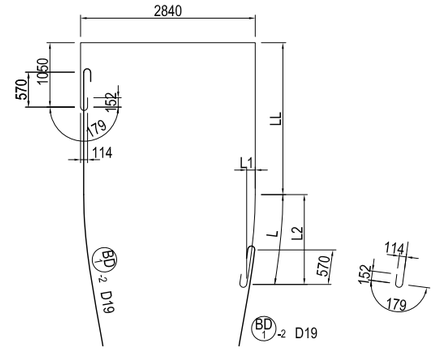
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE: BAR ARRANGEMENT OF P6 PIER (10)

PACKAGE	
	1
DWG No.	
	P1-SB-2012

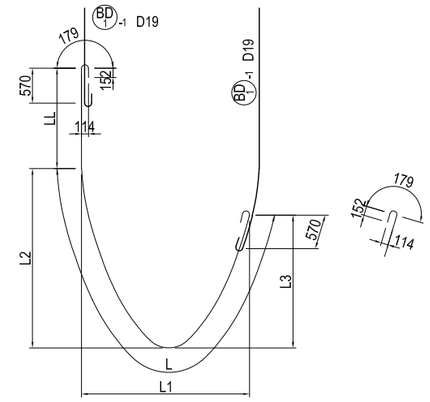
BAR ARRANGEMENT OF P6 PIER (11) S=1:100

BEAM



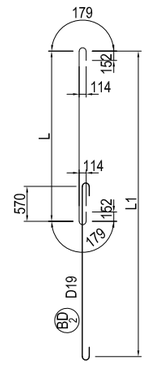
BD1-1 14 – D19 × 8250 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D19	2	1171	118	1162	2474	8197
2	"	2	1204	191	1185	2444	8200
3	"	2	1338	272	1305	2315	8205
4	"	2	1562	367	1510	2100	8214
5	"	2	2012	675	1866	1695	8259
6	"	2	2189	869	2632	1553	8294
7	"	2	2392	1165	1976	1426	8370
AVE		14					8248



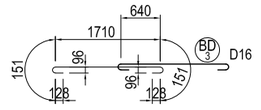
BD1-2 14 – D19 × 7650 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D19	2	8099	2815	3973	3373	1994	10755
2	"	2	6768	2778	3265	2634	1964	9394
3	"	2	6025	2731	2909	2150	1835	8522
4	"	2	5475	2668	2716	1742	1620	7757
5	"	2	4396	2460	2349	970	1215	6273
6	"	2	4002	2338	2216	694	1073	5737
7	"	2	3492	2138	2039	390	946	5100
AVE		14						7648

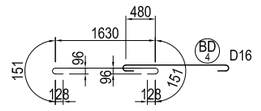


BD2 56 – D19 × 3030 （AVE）

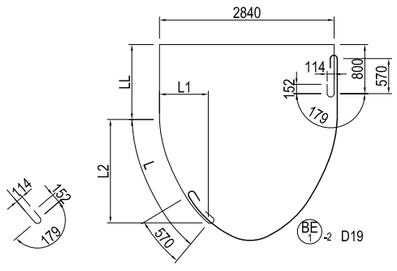
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D19	8	3030	5490	3692
2	"	8	2766	4962	3428
3	"	8	2572	4574	3234
4	"	8	2401	4231	3063
5	"	8	2062	3553	2724
6	"	8	1938	3305	2600
7	"	8	1799	3028	2461
AVE		56			3029



BD3 28 – D16 × 2270

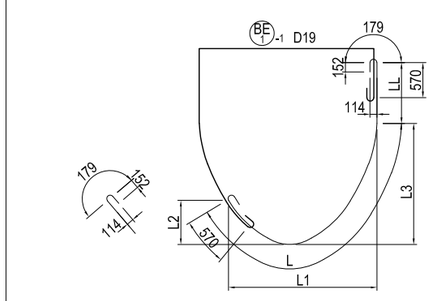


BD4 28 – D16 × 2190



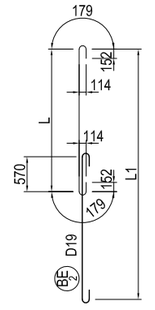
BE1-1 4 – D19 × 7460 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D19	2	1909	799	1683	1221	7432
2	"	2	2173	1044	1806	1020	7495
AVE		4					7464



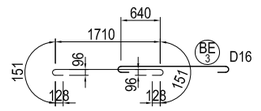
BE1-2 4 – D19 × 5250 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BE1-2 1	D19	2	3868	2411	709	1962	991	5521
2	"	2	3528	2242	448	1903	790	4980
AVE		4						5251

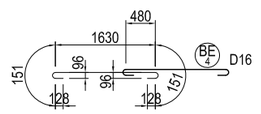


BE2 16 – D19 × 2270 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D19	8	1670	2770	2332
2	"	8	1549	2528	2211
AVE		16			2272



BE3 8 – D16 × 2270



BE4 8 – D16 × 2190

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

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.

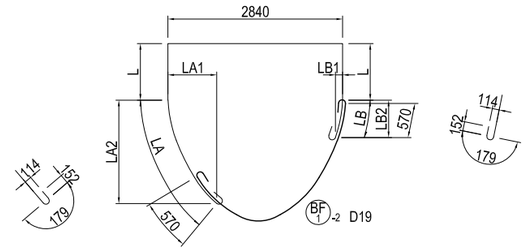
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE
BAR ARRANGEMENT OF P6 PIER (11)

PACKAGE 1
DWG No. P1-SB-2013

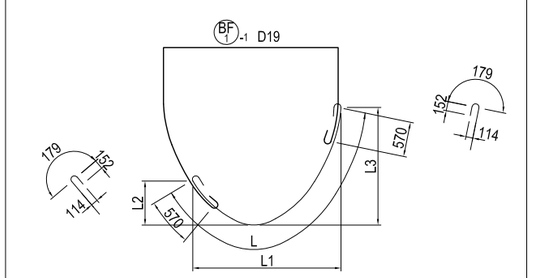
BAR ARRANGEMENT OF P6 PIER (12) S=1:100

BEAM



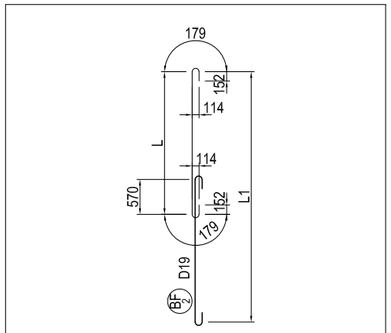
BF1-1 6 – D19 × 7790 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH L	TOTAL LENGTH ΣL
BF1-1 1	D19	2	1737	782	1500	623	140	604	921	7704
2	"	2	1903	1002	1538	729	214	692	817	7768
3	"	2	2097	1312	1482	812	302	748	740	7891
AVE		6								7788



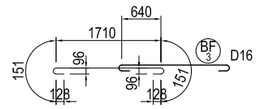
BF1-2 6 – D19 × 3820 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BF1-2 1	D19	2	3660	2439	674	1704	4322
2	"	2	3177	2260	444	1474	3839
3	"	2	2642	1991	227	1257	3304
AVE		6					3822

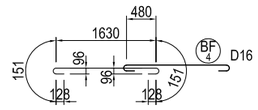


BF2 24 – D19 × 1990 （AVE）

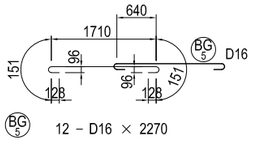
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF2 1	D19	8	1435	2300	2097
2	"	8	1328	2085	1990
3	"	8	1226	1881	1888
AVE		24			1992



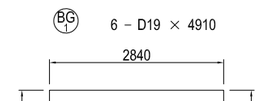
BF3 12 – D16 × 2270



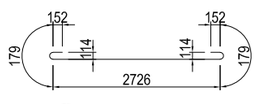
BF4 12 – D16 × 2190



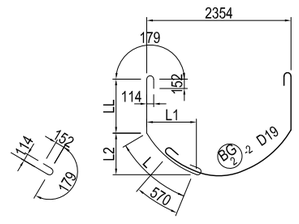
BG5 12 – D16 × 2270



BG1 6 – D19 × 4910

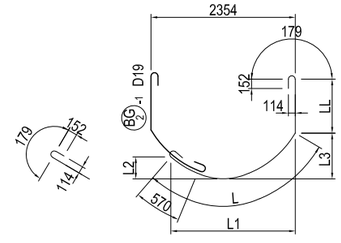


BG4 6 – D19 × 3390



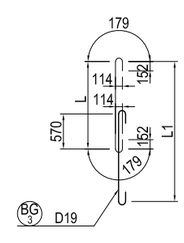
BG2-1 6 – D19 × 2610 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D19	2	661	421	505	1189	2512
2	"	2	1088	820	683	871	2621
3	"	2	1307	1033	725	740	2709
AVE		6					2614



BG2-2 6 – D19 × 4080 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D19	2	2899	2307	735	812	1189	4750
2	"	2	2388	2023	351	747	871	3921
3	"	2	2165	1849	207	734	740	3567
AVE		6						4079



BG3 24 – D19 × 1660 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D19	8	1145	1719	1807
2	"	8	963	1356	1625
3	"	8	895	1219	1557
AVE		24			1663

USE MATERIALS

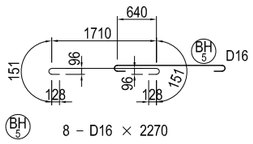
	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (12)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2014

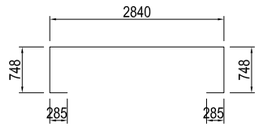
BAR ARRANGEMENT OF P6 PIER (13) S=1:100

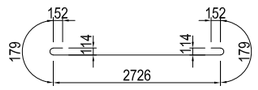
BEAM



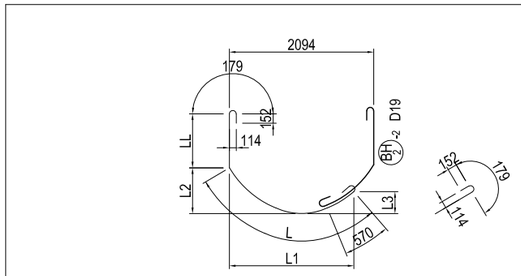
BH5 8 – D16 × 2270

BH1 4 – D19 × 4910



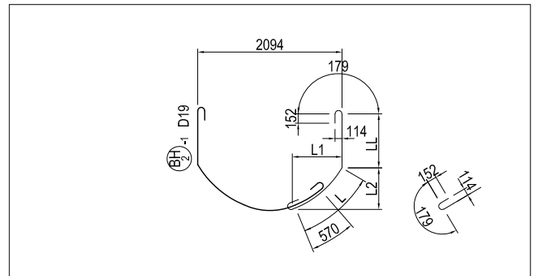


BH4 4 – D19 × 3390



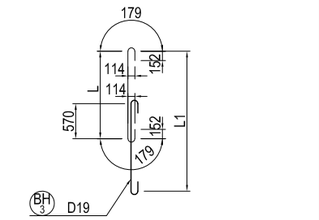
BH2-1 4 – D19 × 3540 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BH2-1 1	D19	2	2260	1987	529	407	796	3718
2	"	2	2062	1941	542	364	638	3362
AVE		4						3540



BH2-2 4 – D19 × 2230 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BH2-2 1	D19	2	732	582	430	796	2190
2	"	2	959	782	515	638	2259
AVE		4					2225

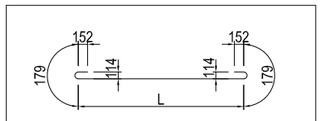


BH3 16 – D19 × 1450 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BH3 1	D19	8	824	1077	1486
2	"	8	755	940	1417
AVE		16			1452

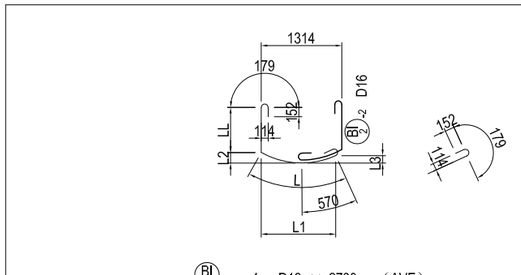
BI1 4 – D19 × 4800 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
BI 1 1	D19	2	2802	4868
2	"	2	2659	4725
AVE		4		4797



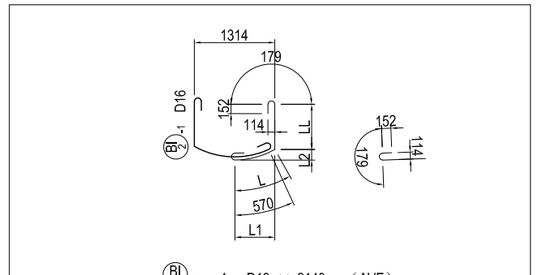
BI3 4 – D19 × 3280 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
BI 3 1	D19	2	2688	3350
2	"	2	2545	3207
AVE		4		3279



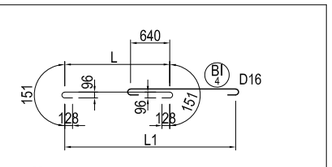
BI2-1 4 – D19 × 2730 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BI 2-1 1	D19	2	1278	1221	187	135	855	2795
2	"	2	1262	1215	172	122	736	2660
AVE		4						2728



BI2-2 4 – D19 × 2140 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BI 2-2 1	D19	2	677	641	187	855	2194
2	"	2	681	652	172	736	2079
AVE		4					2137



BI4 8 – D16 × 2210 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BI 4 1	D16	4	1691	2741	2249
2	"	4	1619	2598	2177
AVE		8			2213

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

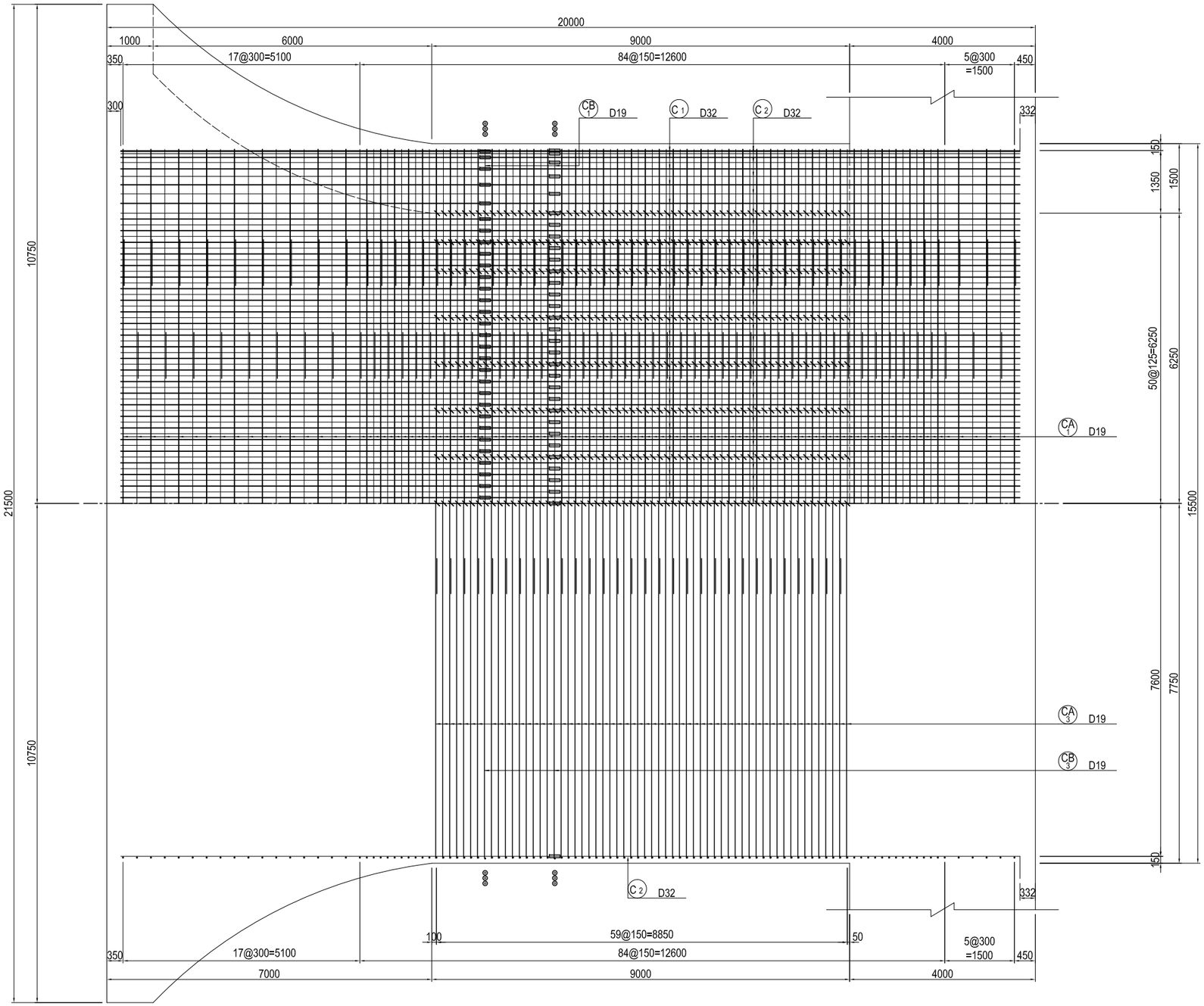
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (13)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2015

BAR ARRANGEMENT OF P6 PIER (14) S=1:100

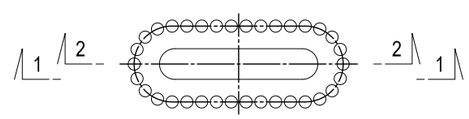
COLUMN

FRONT ELEVATION
1 - 1

SECTION
2 - 2



MARKING DIAGRAM



Notes) 1. ⊙⊙⊙ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm²	SD345

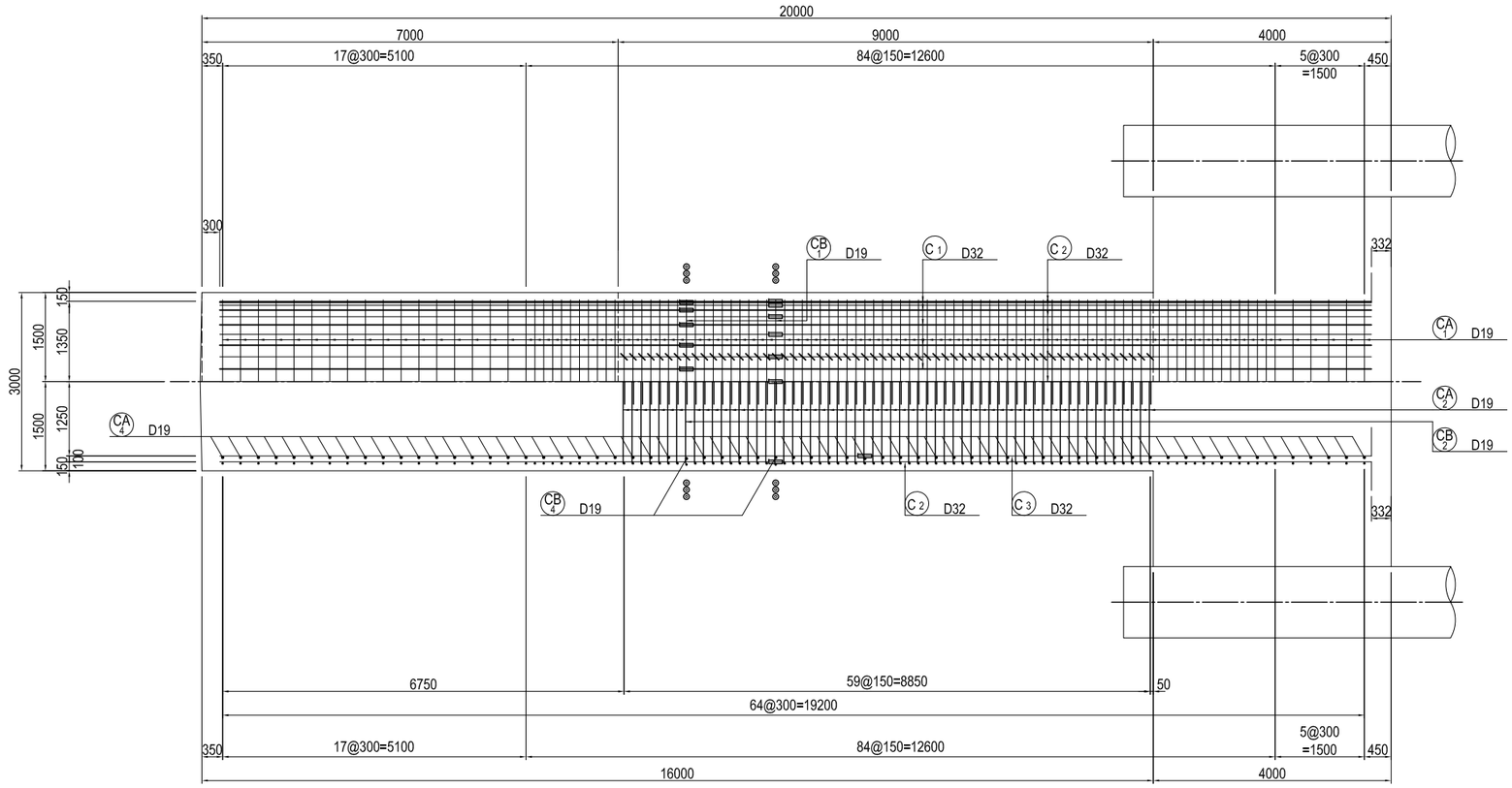
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

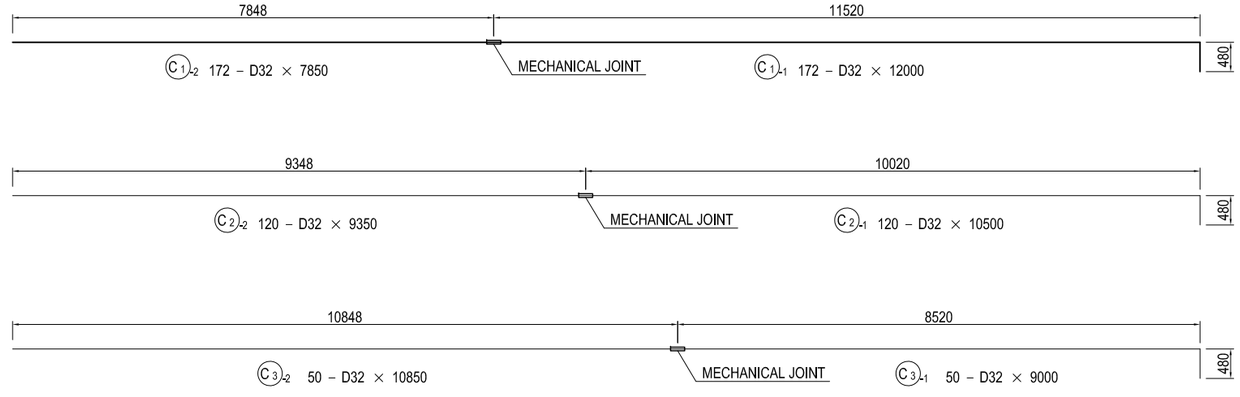
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (14)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2016

BAR ARRANGEMENT OF P6 PIER (15) S=1:100

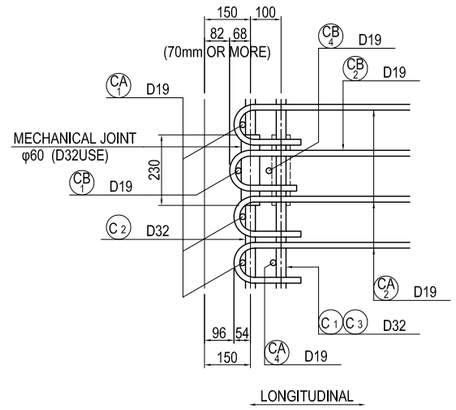
COLUMN

SECTION 4 - 4 SIDE ELEVATION 3 - 3

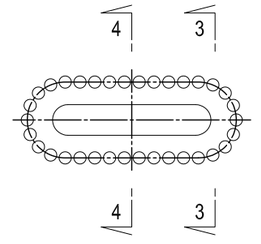




DETAIL OF COLUMN S=1:20



MARKING DIAGRAM



Notes) 1. ∞∞ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm²	SD345

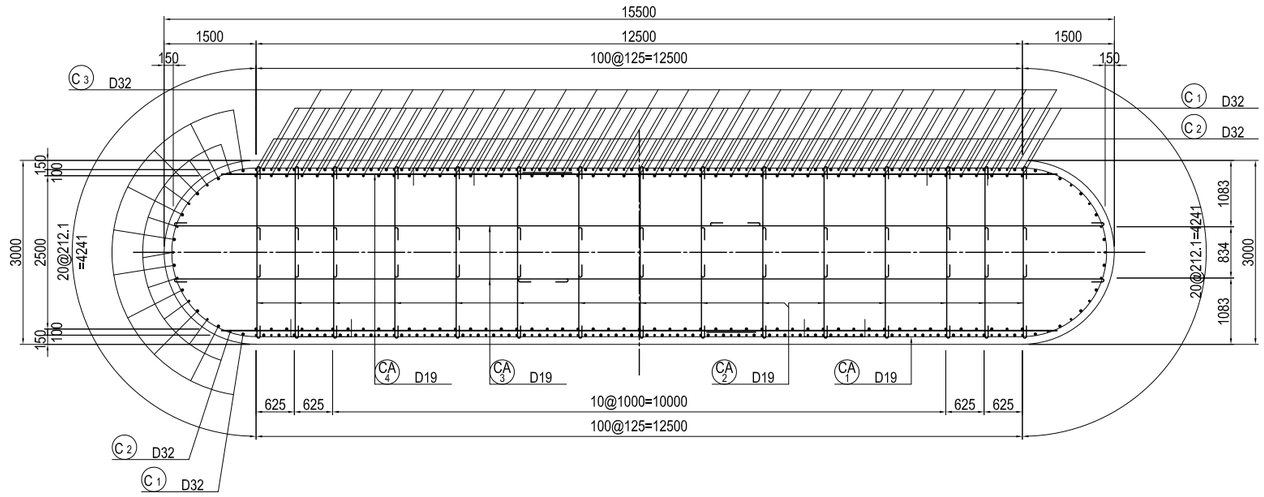
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (15)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2017

BAR ARRANGEMENT OF P6 PIER (16) S=1:100

COLUMN

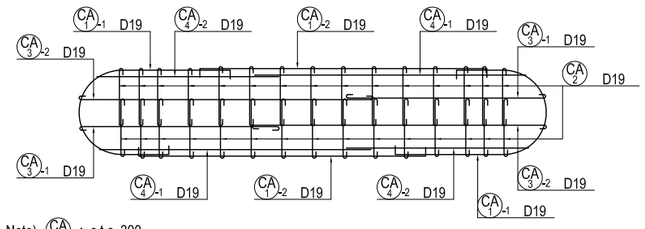
PLAN
5 - 5



ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

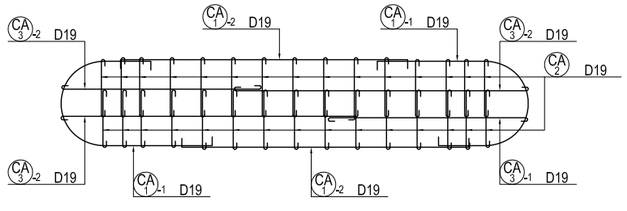
【STANDARD PART】

①



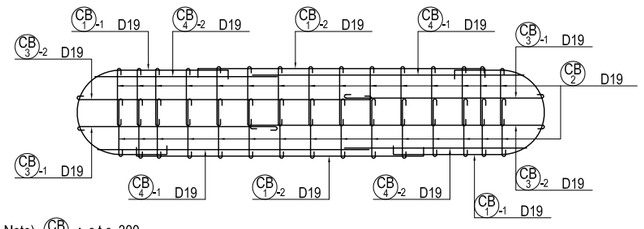
Note) CA4 : c.t.c. 300

②



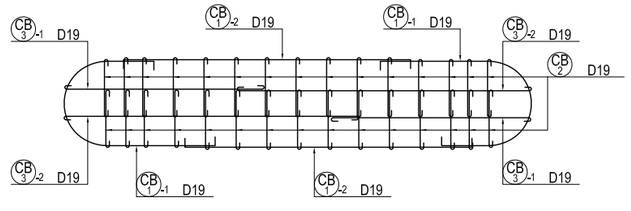
【MECHANICAL JOINT PART】

①

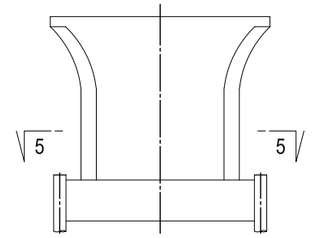


Note) CB4 : c.t.c. 300

②



MARKING DIAGRAM



USE MATERIALS

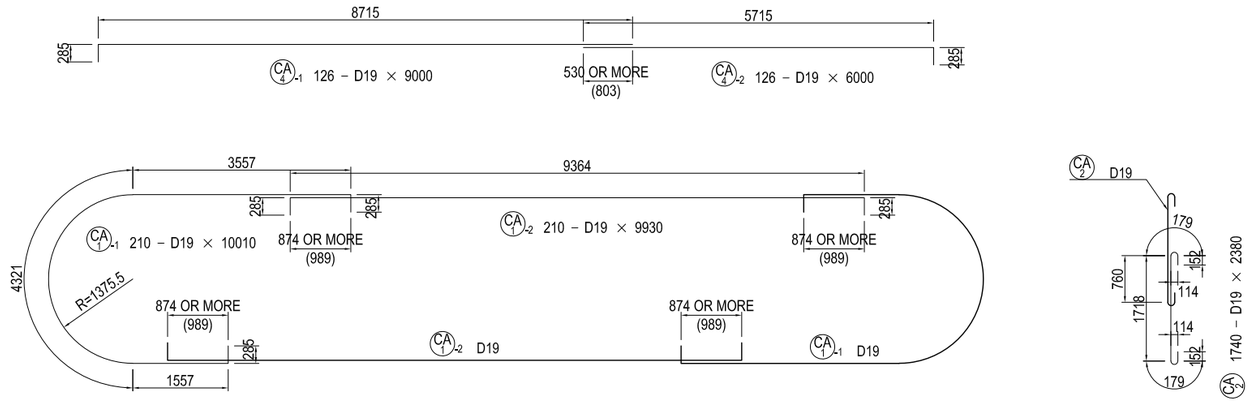
	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

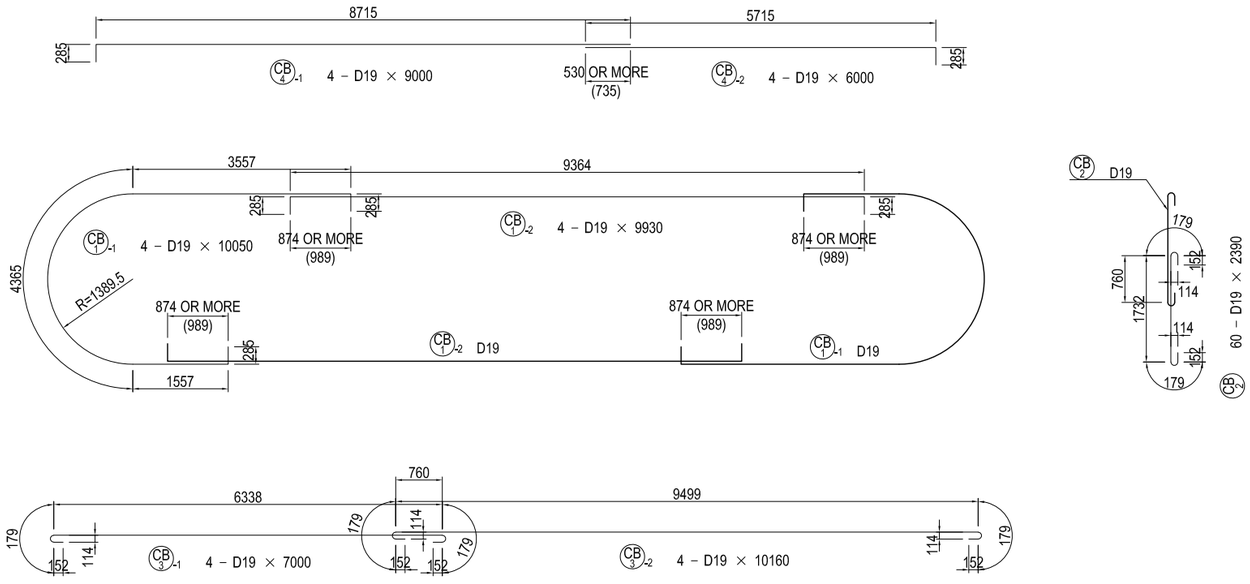
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P6 PIER (16)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2018

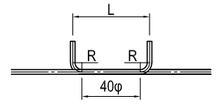
BAR ARRANGEMENT OF P6 PIER (17) S=1:100

COLUMN





LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P6 PIER (17)	1
	DWG No.
	P1-SB-2019

BAR ARRANGEMENT OF P6 PIER (18) NOT TO SCALE

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D29	11500	6	5.04	57.96	348	
1-2	"	12000	6	"	60.48	363	
2-1	"	5000	7	"	25.20	176	
2-2	"	12000	7	"	60.48	423	
2-3	"	7500	7	"	37.80	265	
3-1	"	11500	2	"	57.96	116	
3-2	"	12000	2	"	60.48	121	
4-1	"	5000	2	"	25.20	50	
4-2	"	12000	2	"	60.48	121	
4-3	"	7500	2	"	37.80	76	
5-1	"	11000	2	"	55.44	111	
5-2	"	12000	2	"	60.48	121	
6-1	"	11000	2	"	55.44	111	
6-2	"	12000	2	"	60.48	121	
7-1	"	8500	5	"	42.84	214	
7-2	"	10500	5	"	52.92	265	
7-3	"	5000	5	"	25.20	126	
8-1	"	8500	2	"	42.84	86	
8-2	"	10500	2	"	52.92	106	
8-3	"	5000	2	"	25.20	50	
9-1	"	5000	2	"	25.20	50	
9-2	"	10500	2	"	52.92	106	
9-3	"	8000	2	"	40.32	81	
10-1	"	11000	4	"	55.44	222	
10-2	"	12000	4	"	60.48	242	
11-1	"	5000	3	"	25.20	76	
11-2	"	12000	3	"	60.48	181	
11-3	"	7000	3	"	35.28	106	
12-1	"	5000	2	"	25.20	50	
12-2	"	12000	2	"	60.48	121	
12-3	"	7000	2	"	35.28	71	
13-1	"	10500	2	"	52.92	106	
13-2	"	12000	2	"	60.48	121	
14-1	"	9440	6	"	47.58	285	(AVE)
14-2	"	10000	6	"	50.40	302	
14-3	"	11200	6	"	56.45	339	(AVE)
15-1	"	10090	3	"	50.85	153	(AVE)
15-2	"	10000	3	"	50.40	151	
15-3	"	11850	3	"	59.72	179	(AVE)
16-1	"	12000	4	"	60.48	242	
16-2	"	5000	2	"	25.20	50	
17-1	D16	12000	3	1.56	18.72	56	
17-2	"	9000	6	"	14.04	84	
17-3	"	10500	3	"	16.38	49	
17-4	"	12000	3	"	18.72	56	
18-1	"	12000	1	"	18.72	19	
18-2	"	7500	2	"	11.70	23	
18-3	"	12000	1	"	18.72	19	
18-4	"	11000	1	"	17.16	17	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 19-1	D16	12000	2	"	18.72	37	
19-2	"	12000	2	"	18.72	37	
20-1	"	9180	36	"	14.32	516	(AVE)
20-2	"	11340	36	"	17.69	637	
					SUBTOTAL	8154 kg	
BA 1-1	D19	11640	85	2.25	26.19	2226	
1-2	"	6500	85	"	14.63	1244	
2-1	"	6500	85	"	14.63	1244	
2-2	"	10050	85	"	22.61	1922	
3	"	3390	85	"	7.63	649	
4	D16	2270	170	1.56	3.54	602	
5	"	2190	170	"	3.42	581	
					SUBTOTAL	8468 kg	
BB 1-1	D19	9650	10	2.25	21.71	217	
1-2	"	11810	10	"	26.57	266	(AVE)
2-1	"	10050	10	"	22.61	226	
2-2	"	6500	10	"	14.63	146	
3	D16	2270	20	1.56	3.54	71	
4	"	2190	20	"	3.42	68	
					SUBTOTAL	994 kg	
BC 1-1	D19	10300	8	2.25	23.18	185	(AVE)
1-2	"	10290	8	"	23.15	185	(AVE)
2-1	"	10050	6	"	22.61	136	
2-2	"	6500	6	"	14.63	88	
3	"	4040	8	"	9.09	73	
4	D16	2270	16	1.56	3.54	57	
5	"	2190	16	"	3.42	55	
					SUBTOTAL	779 kg	
BD 1-1	D19	8250	14	2.25	18.56	260	(AVE)
1-2	"	7650	14	"	17.21	241	(AVE)
2	"	3030	56	"	6.82	382	(AVE)
3	D16	2270	28	1.56	3.54	99	
4	"	2190	28	"	3.42	96	
					SUBTOTAL	1078 kg	
BE 1-1	D19	7460	4	2.25	16.79	67	(AVE)
1-2	"	5250	4	"	11.81	47	(AVE)
2	"	2270	16	"	5.11	82	(AVE)
3	D16	2270	8	1.56	3.54	28	
4	"	2190	8	"	3.42	27	
					SUBTOTAL	251 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BF 1-1	D19	7790	6	2.25	17.53	105	(AVE)
1-2	"	3820	6	"	8.60	52	(AVE)
2	"	1990	24	"	4.48	108	(AVE)
3	D16	2270	12	1.56	3.54	42	
4	"	2190	12	"	3.42	41	
					SUBTOTAL	384 kg	
BG 1	D19	4910	6	2.25	11.05	66	
2-1	"	2610	6	"	5.87	35	(AVE)
2-2	"	4080	6	"	9.18	55	(AVE)
3	"	1660	24	"	3.74	90	(AVE)
4	"	3390	6	"	7.63	46	
5	D16	2270	12	1.56	3.54	42	
					SUBTOTAL	334 kg	
BH 1	D19	4910	4	2.25	11.05	44	
2-1	"	3540	4	"	7.97	32	(AVE)
2-2	"	2230	4	"	5.02	20	(AVE)
3	"	1450	16	"	3.26	52	(AVE)
4	"	3390	4	"	7.63	31	
5	D16	2270	8	1.56	3.54	28	
					SUBTOTAL	207 kg	
BI 1	D19	4800	4	2.25	10.80	43	
2-1	"	2730	4	"	6.14	25	
2-2	"	2140	4	"	4.82	19	
3	"	3280	4	"	7.38	30	
4	D16	2210	8	1.56	3.45	28	
					SUBTOTAL	145 kg	
HA 1	D16	2620	19	1.56	4.09	78	
2	"	3180	14	"	4.96	49	
3	"	7650	1	"	11.93	12	
					SUBTOTAL	139 kg	
HB 1	D16	3000	42	1.56	4.68	197	
2	"	3560	32	"	5.55	178	
3	"	8450	2	"	13.18	26	
					SUBTOTAL	401 kg	
HC 1	D16	2360	17	1.56	3.68	63	
2	"	2860	11	"	4.46	49	
3	"	7210	1	"	11.25	11	
					SUBTOTAL	123 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D32	12000	172	6.23	74.76	12859	(172)
1-2	"	7850	172	"	48.91	8413	
2-1	"	10500	120	"	65.42	7850	(120)
2-2	"	9350	120	"	58.25	6990	
3-1	"	9000	50	"	56.07	2804	(50)
3-2	"	10850	50	"	67.60	3380	
					SUBTOTAL	42296 kg	
CA 1-1	D19	10010	210	2.25	22.52	4729	
1-2	"	9930	210	"	22.34	4691	
2	"	2380	1740	"	5.36	9326	
3-1	"	7000	116	"	15.75	1827	
3-2	"	10130	116	"	22.79	2644	
4-1	"	9000	126	"	20.25	2552	
4-2	"	6000	126	"	13.50	1701	
					SUBTOTAL	27470 kg	
CB 1-1	D19	10050	4	2.25	22.61	90	
1-2	"	9930	4	"	22.34	89	
2	"	2390	60	"	5.38	323	
3-1	"	7000	4	"	15.75	63	
3-2	"	10160	4	"	22.86	91	
4-1	"	9000	4	"	20.25	81	
4-2	"	6000	4	"	13.50	54	
					SUBTOTAL	791 kg	
							(MECHANICAL JOINT)
				D32	42296 kg		(342)
				D29	6604 "		
				D19	39000 "		
				D16	4078 "		
				TOTAL	91978 kg		(342)

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm^2	SD345

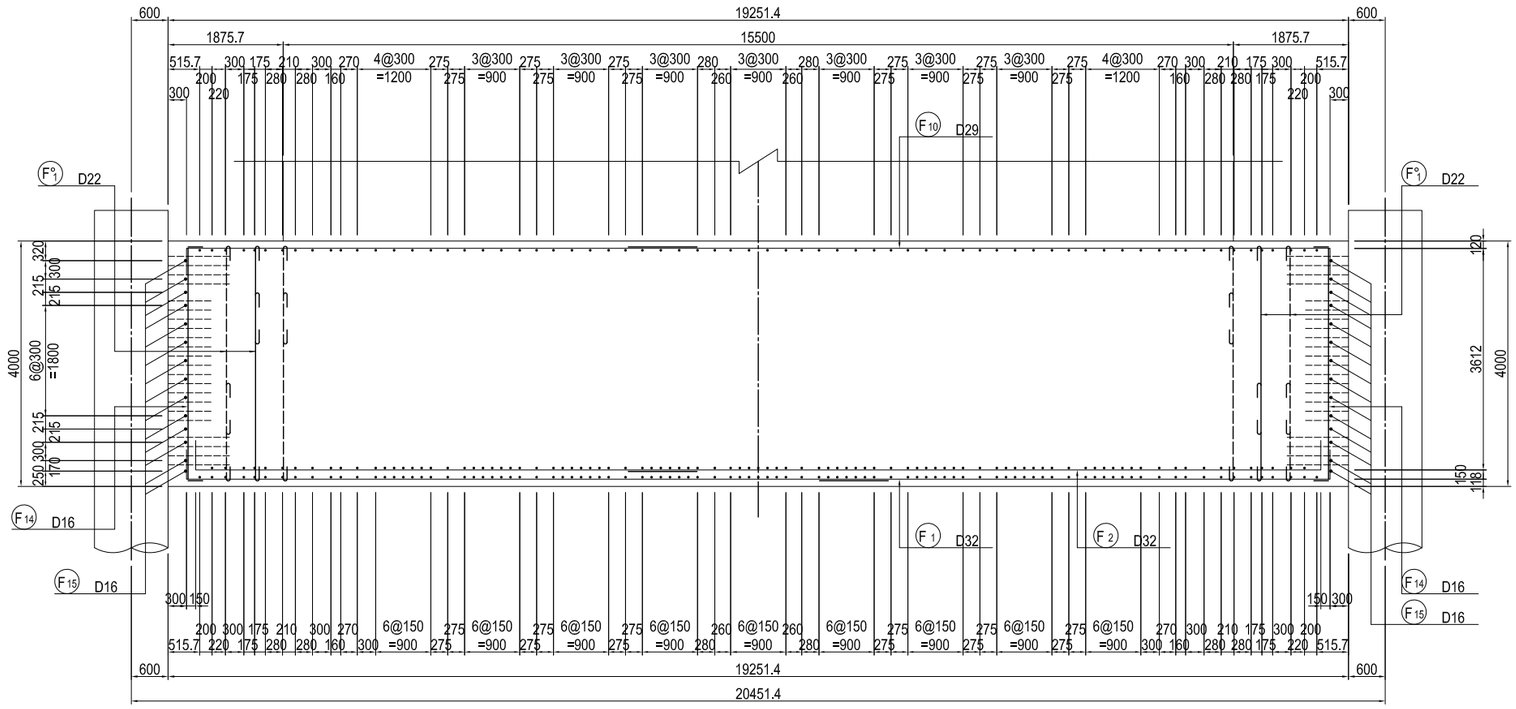
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

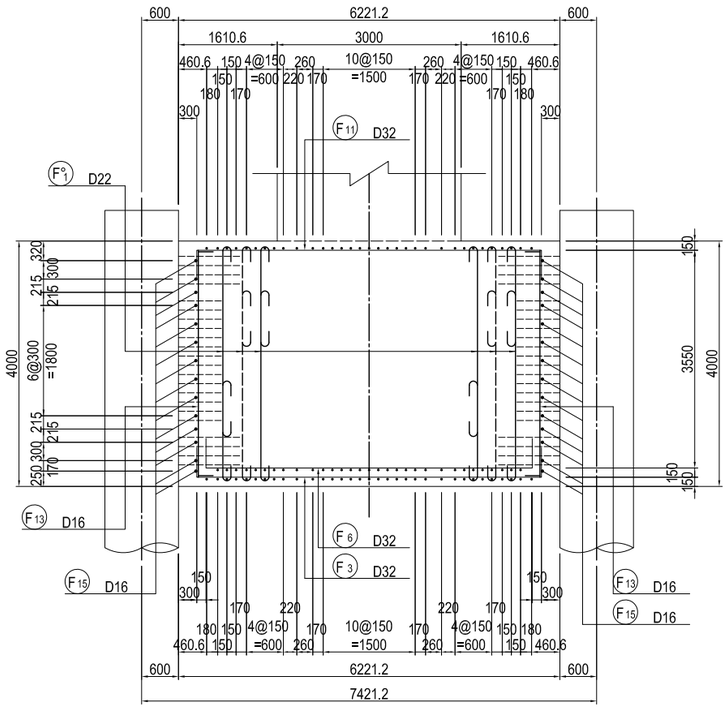
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P6 PIER (18)	1
	DWG No.
	P1-SB-2020

BAR ARRANGEMENT OF FOOTING FOR P6 PIER (1) S=1:100

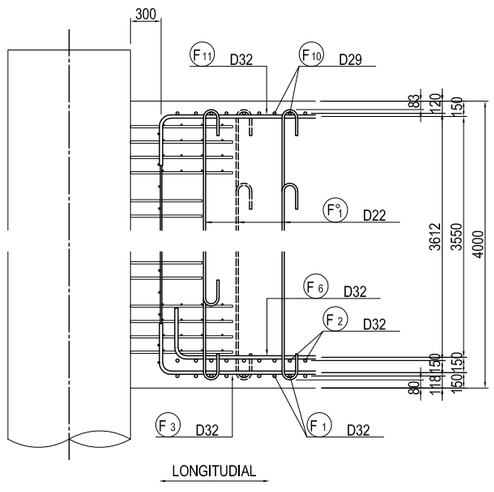
SECTION 1 - 1



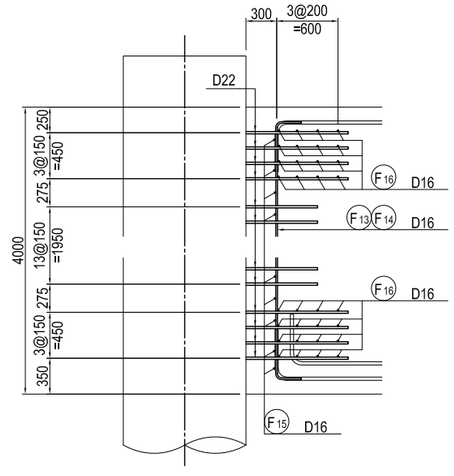
SECTION 2 - 2



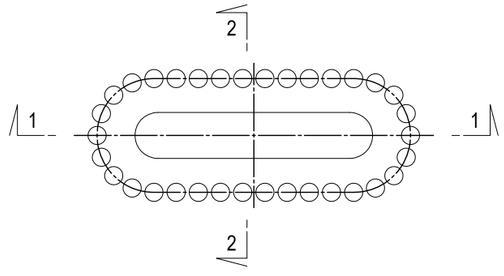
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



USE MATERIALS

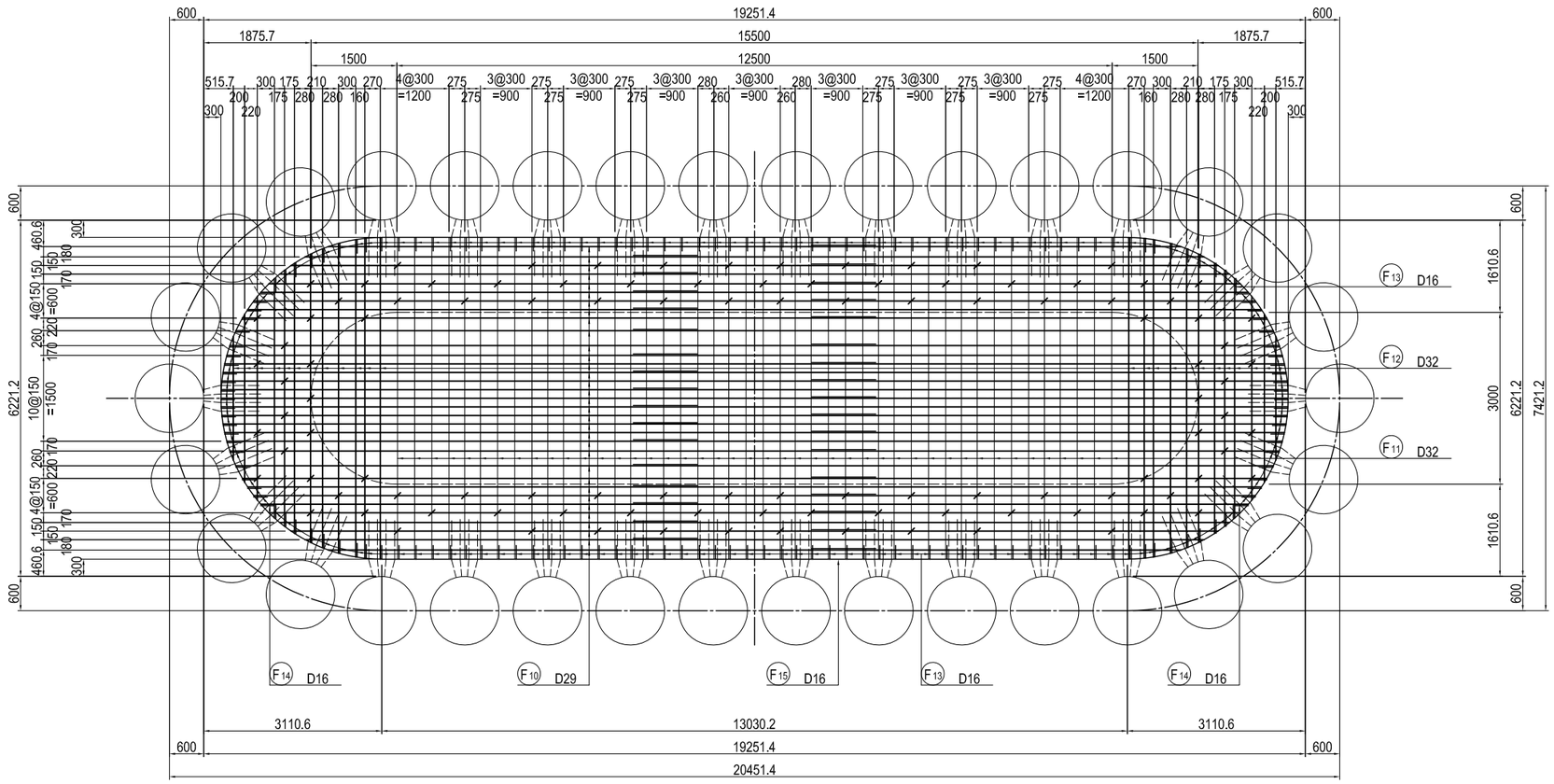
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

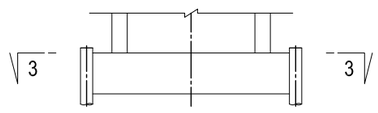
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P6 PIER (1)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2021

BAR ARRANGEMENT OF FOOTING FOR P6 PIER (2) S=1:100

PLAN
3 - 3



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

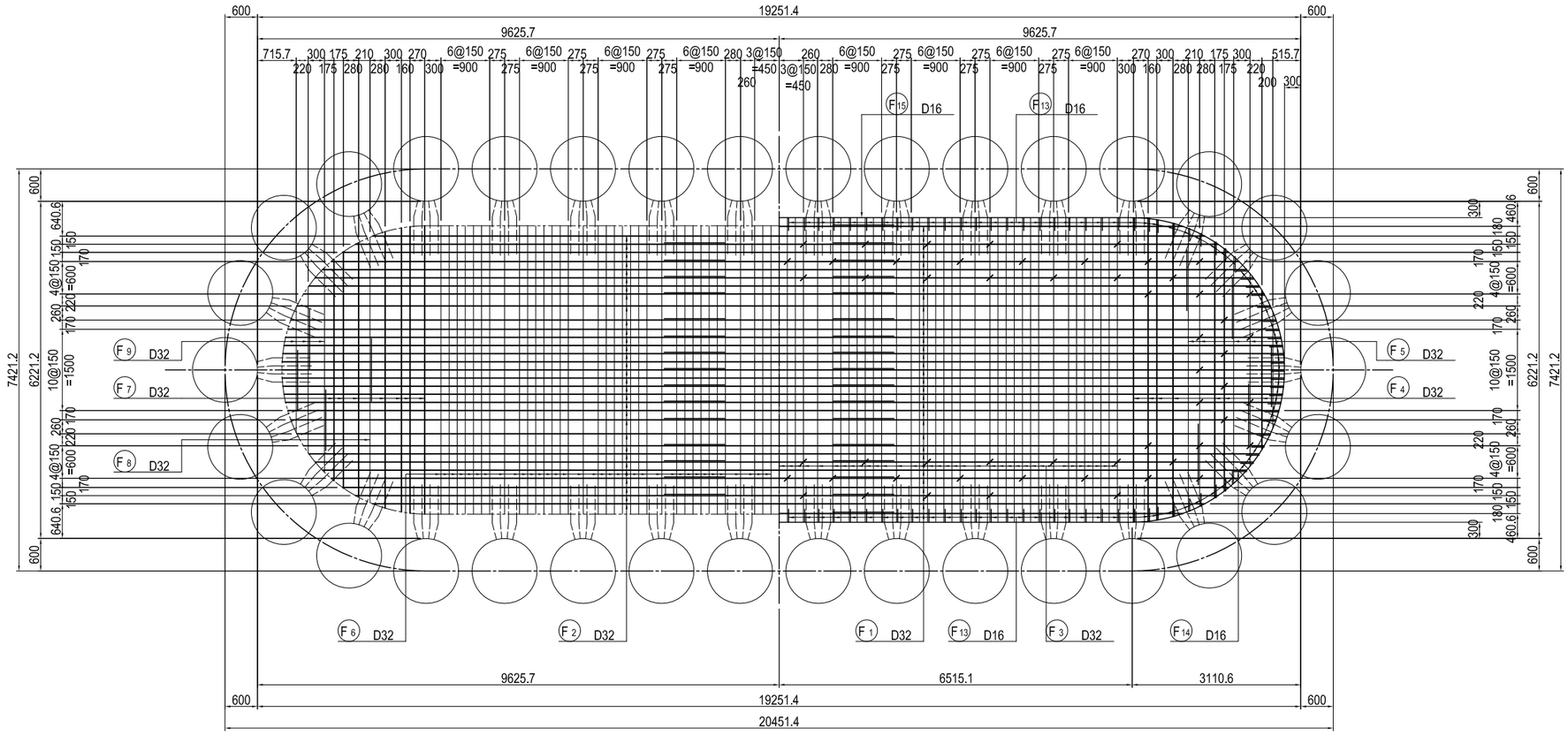
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P6 PIER (2)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2022

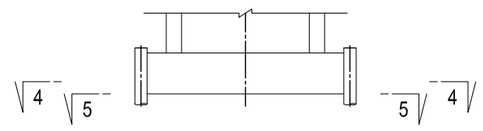
BAR ARRANGEMENT OF FOOTING FOR P6 PIER (3) S=1:100

PLAN
4 - 4

PLAN
5 - 5



MARKING DIAGRAM



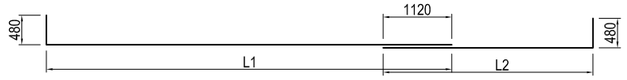
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm^2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

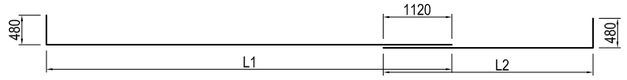
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P6 PIER (3)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2023

BAR ARRANGEMENT OF FOOTING FOR P6 PIER (4) S=1:100



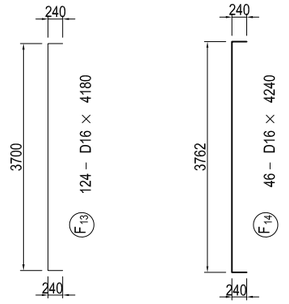
F1-1 33 – D32 × 11370 （AVE） F1-2 33 – D32 × 8250 （AVE）

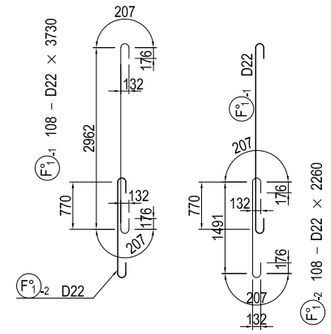
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1-1 1	D32	1	11446	11926	F1-2 1	D32	1	8326	8806
2	"	2	11442	11922	2	"	2	8322	8802
3	"	2	11430	11910	3	"	2	8310	8790
4	"	2	11409	11889	4	"	2	8289	8769
5	"	2	11381	11861	5	"	2	8261	8741
6	"	2	11344	11824	6	"	2	8224	8704
7	"	2	11291	11771	7	"	2	8171	8651
8	"	2	11186	11666	8	"	2	8066	8546
9	"	2	11072	11552	9	"	2	7952	8432
10	"	2	10980	11460	10	"	2	7860	8340
11	"	2	10873	11353	11	"	2	7753	8233
12	"	2	10751	11231	12	"	2	7631	8111
13	"	2	10610	11090	13	"	2	7490	7970
14	"	2	10421	10901	14	"	2	7301	7781
15	"	2	10222	10702	15	"	2	7102	7582
16	"	2	9976	10456	16	"	2	6856	7336
17	"	2	9572	10052	17	"	2	6452	6932
AVE		33		11370	AVE		33		8250

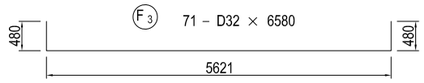


F2-1 31 – D32 × 11260 （AVE） F2-2 31 – D32 × 8140 （AVE）

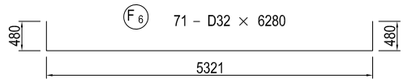
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2-1 1	D32	1	11296	11776	F2-2 1	D32	1	8176	8656
2	"	2	11291	11771	2	"	2	8171	8651
3	"	2	11279	11759	3	"	2	8159	8639
4	"	2	11257	11737	4	"	2	8137	8617
5	"	2	11227	11707	5	"	2	8107	8587
6	"	2	11188	11668	6	"	2	8068	8548
7	"	2	11132	11612	7	"	2	8012	8492
8	"	2	11020	11500	8	"	2	7900	8380
9	"	2	10898	11378	9	"	2	7778	8258
10	"	2	10798	11278	10	"	2	7678	8158
11	"	2	10682	11162	11	"	2	7562	8042
12	"	2	10547	11027	12	"	2	7427	7907
13	"	2	10390	10870	13	"	2	7270	7750
14	"	2	10175	10655	14	"	2	7055	7535
15	"	2	9938	10418	15	"	2	6818	7298
16	"	2	9624	10104	16	"	2	6504	6984
AVE		31		11260	AVE		31		8140



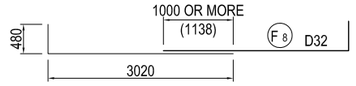




F3 71 – D32 × 6580



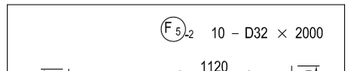
F6 71 – D32 × 6280



F8 4 – D32 × 3500

F4 14 – D32 × 5860 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F4 1	D32	2	5621	6581
2	"	2	5590	6550
3	"	2	5547	6507
4	"	2	5415	6375
5	"	2	4722	5682
6	"	2	4477	5437
7	"	2	2942	3902
AVE		14		5862

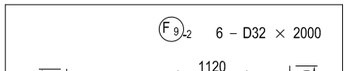


F5-1 10 – D32 × 4120 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5-1 1	D32	2	4826	5306
2	"	2	4640	5120
3	"	2	3788	4268
4	"	2	3160	3640
5	"	2	1760	2240
AVE		10		4115

F7 14 – D32 × 5830 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F7 1	D32	2	5321	6281
2	"	2	5288	6248
3	"	2	5243	6203
4	"	2	5103	6063
5	"	2	4703	5663
6	"	2	4360	5320
7	"	2	4093	5053
AVE		14		5833



F9-1 6 – D32 × 3130 （AVE）

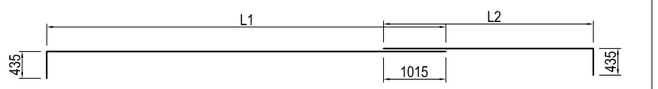
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F9-1 1	D32	2	3375	3855
2	"	2	2665	3145
3	"	2	1918	2398
AVE		6		3133

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

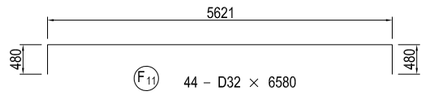
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P6 PIER (4)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2024

BAR ARRANGEMENT OF FOOTING FOR P6 PIER (5) S=1:100

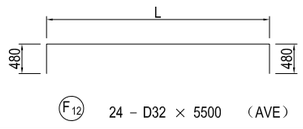


F_{10}-1 33 – D29 × 11220 （AVE） F_{10}-2 33 – D29 × 8210 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F10-1 1	D29	1	11341	11776	F10-2 1	D29	1	8326	8761
2	〃	2	11337	11772	2	〃	2	8322	8757
3	〃	2	11325	11760	3	〃	2	8310	8745
4	〃	2	11304	11739	4	〃	2	8289	8724
5	〃	2	11276	11711	5	〃	2	8261	8696
6	〃	2	11239	11674	6	〃	2	8224	8659
7	〃	2	11186	11621	7	〃	2	8171	8606
8	〃	2	11081	11516	8	〃	2	8066	8501
9	〃	2	10967	11402	9	〃	2	7952	8387
10	〃	2	10875	11310	10	〃	2	7860	8295
11	〃	2	10768	11203	11	〃	2	7753	8188
12	〃	2	10646	11081	12	〃	2	7631	8066
13	〃	2	10505	10940	13	〃	2	7490	7925
14	〃	2	10316	10751	14	〃	2	7301	7736
15	〃	2	10117	10552	15	〃	2	7102	7537
16	〃	2	9871	10306	16	〃	2	6856	7291
17	〃	2	9467	9902	17	〃	2	6452	6887
AVE		33		11220	AVE		33		8205

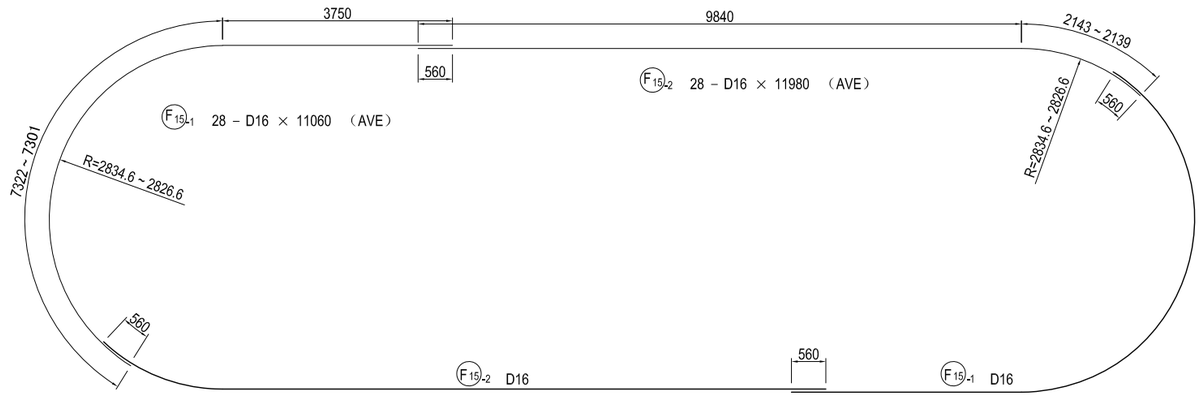


F_{11} 44 – D32 × 6580



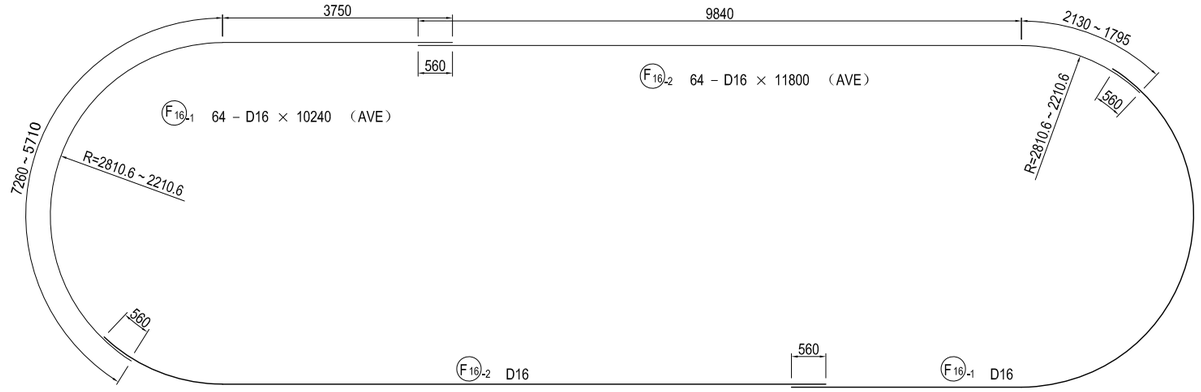
F_{12} 24 – D32 × 5500 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F12 1	D32	2	5621	6581
2	〃	2	5590	6550
3	〃	2	5547	6507
4	〃	2	5415	6375
5	〃	2	5226	6186
6	〃	2	5040	6000
7	〃	2	4722	5682
8	〃	2	4477	5437
9	〃	2	4188	5148
10	〃	2	3560	4520
11	〃	2	2942	3902
12	〃	2	2160	3120
AVE		24		5501



F_{15}-1 28 – D16 × 11060 （AVE） F_{15}-2 28 – D16 × 11980 （AVE）

F_{15}-2 D16 F_{15}-1 D16



F_{16}-1 64 – D16 × 10240 （AVE） F_{16}-2 64 – D16 × 11800 （AVE）

F_{16}-2 D16 F_{16}-1 D16

Note） The joint position of the reinforcing bars is reversed for each step.

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P6 PIER (5)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2025

BAR ARRANGEMENT OF FOOTING FOR P6 PIER (6) NOT TO SCALE

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D32	11370	33	6.23	70.84	2338	(AVE)
1-2	"	8250	33	"	51.40	1696	(AVE)
2-1	"	11260	31	"	70.15	2175	(AVE)
2-2	"	8140	31	"	50.71	1572	(AVE)
3	"	6580	71	"	40.99	2910	
4	"	5860	14	"	36.51	511	(AVE)
5-1	"	4120	10	"	25.67	257	(AVE)
5-2	"	2000	10	"	12.46	125	
6	"	6280	71	"	39.12	2778	
7	"	5830	14	"	36.32	508	(AVE)
8	"	3500	4	"	21.81	87	
9-1	"	3130	6	"	19.50	117	(AVE)
9-2	"	2000	6	"	12.46	75	
10-1	D29	11220	33	5.04	56.55	1866	(AVE)
10-2	"	8210	33	"	41.38	1366	(AVE)
11	D32	6580	44	6.23	40.99	1804	
12	"	5500	24	"	34.27	822	(AVE)
13	D16	4180	124	1.56	6.52	808	
14	"	4240	46	"	6.61	304	
15-1	"	11060	28	"	17.25	483	(AVE)
15-2	"	11980	28	"	18.69	523	(AVE)
16-1	"	10240	64	"	15.97	1022	(AVE)
16-2	"	11800	64	"	18.41	1178	(AVE)
					SUBTOTAL	25325 kg	
F° 1-1	D22	3730	108	3.04	11.34	1225	
1-2	"	2260	108	"	6.87	742	
					SUBTOTAL	1967 kg	
				D32	17775 kg		
				D29	3232 "		
				D22	1967 "		
				D16	4318 "		
				TOTAL	27292 kg		

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm^2	SD345

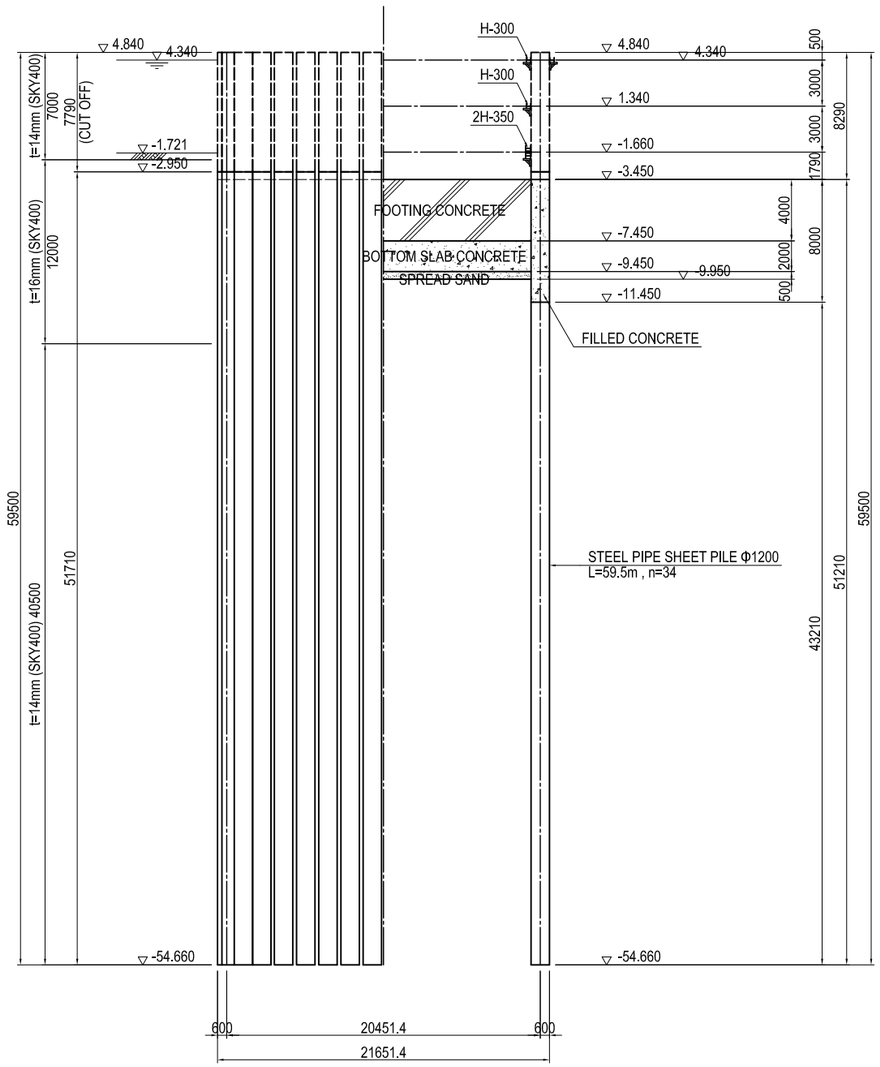
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P6 PIER (6)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2026

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P6 PIER

S=1:400

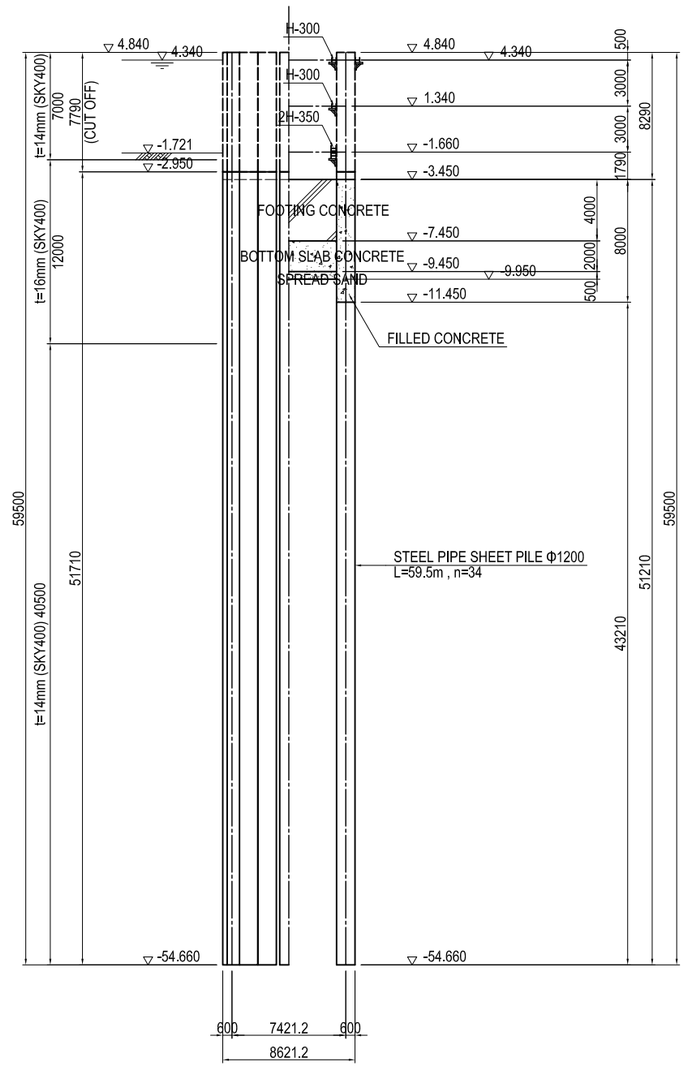
FRONT ELEVATION

1 - 1　　2 - 2

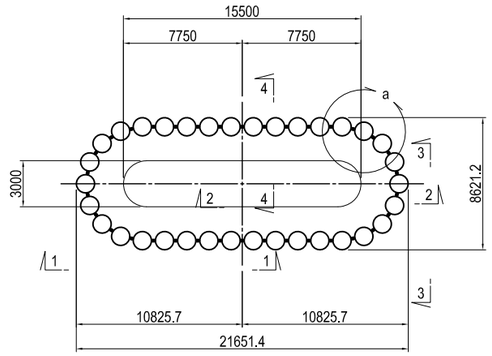


SIDE ELEVATION

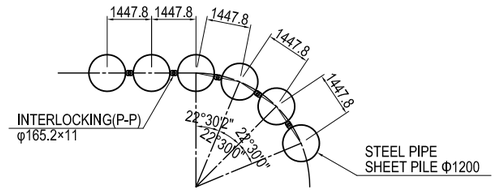
3 - 3　　4 - 4



PLAN



DETAIL a　S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

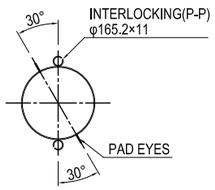
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P6 PIER	1
	DWG No.
	P1-SB-2027

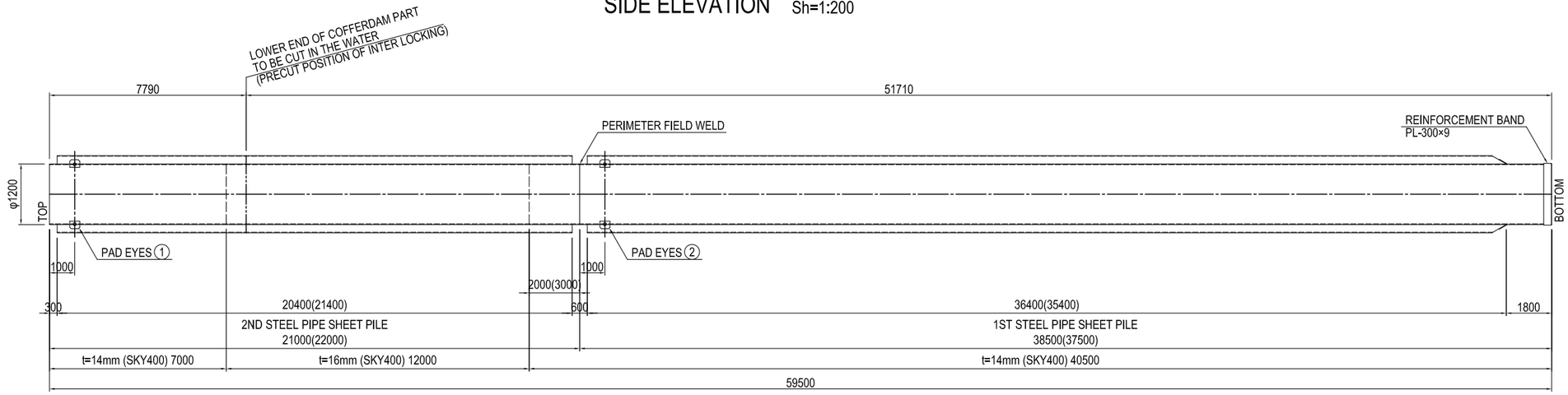
DETAIL OF STEEL PIPE SHEET PILE OF P6 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)

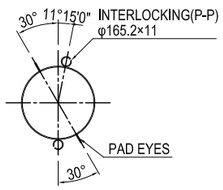


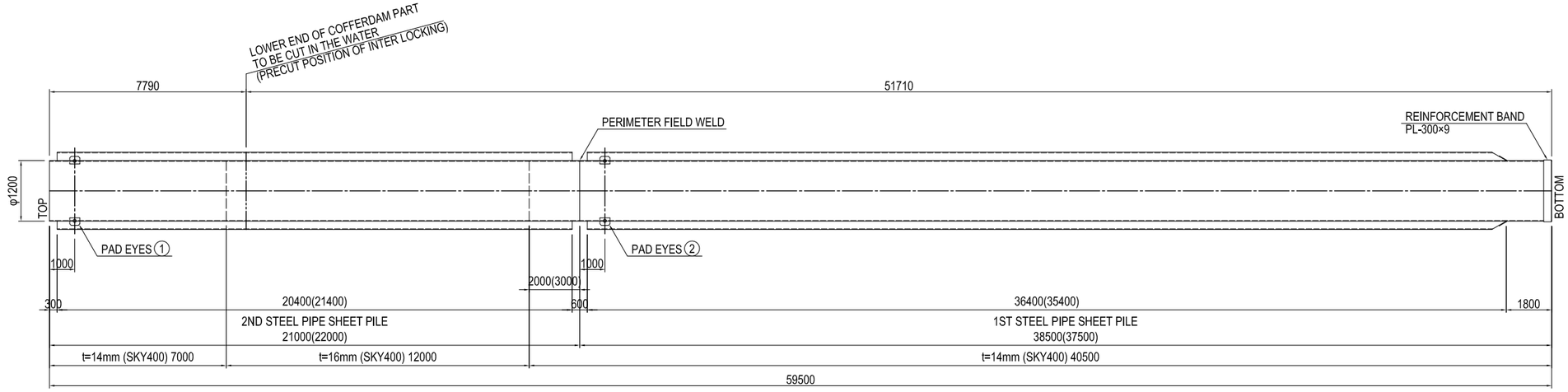
SIDE ELEVATION Sv=1:100 Sh=1:200



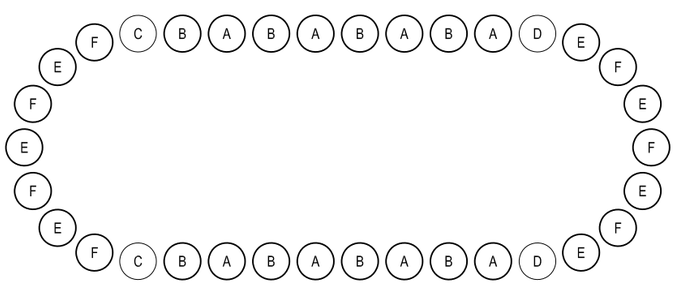
CROSS SECTION S=1:200

TYPE C
(TYPE D)



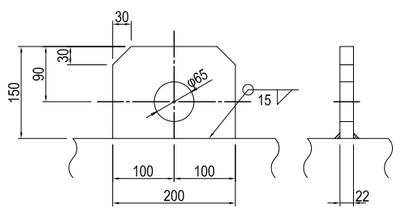


STEEL PIPE SHEET PILE TYPE AND POSITION

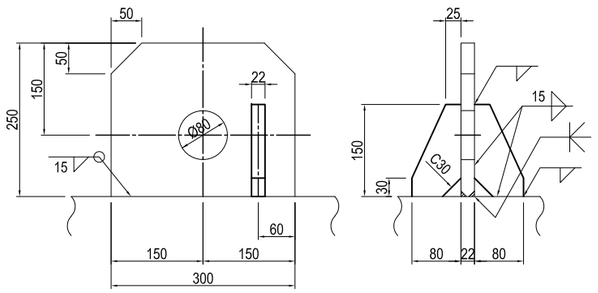


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



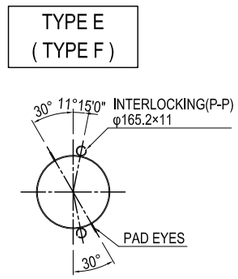
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

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.		

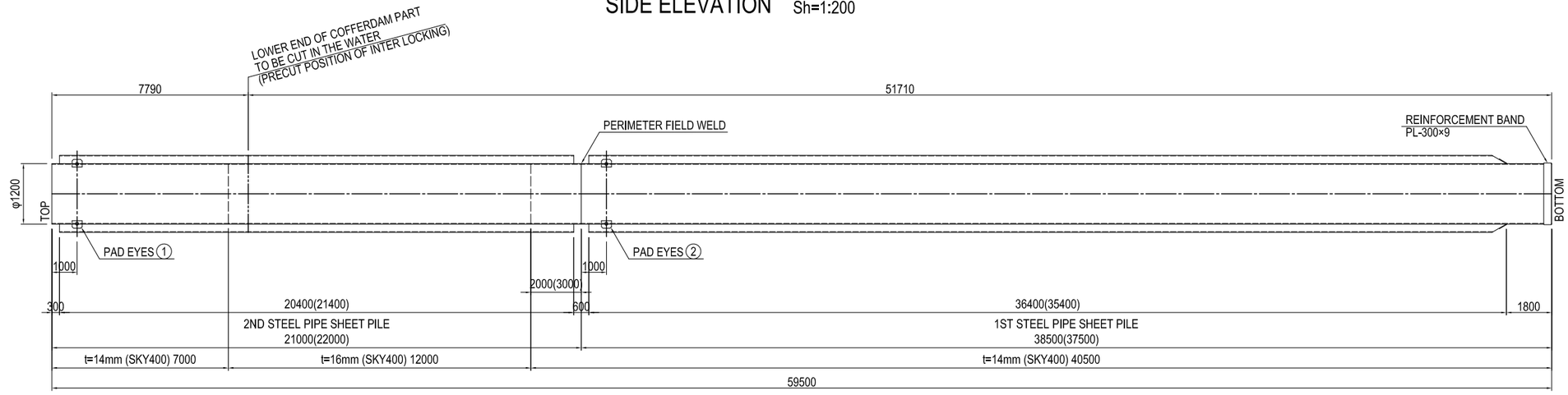
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	DETAIL OF STEEL PIPE SHEET PILE OF P6 PIER (1)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2028

DETAIL OF STEEL PIPE SHEET PILE OF P6 PIER (2)

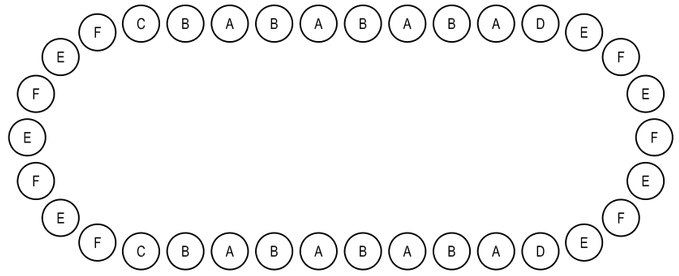
CROSS SECTION S=1:200



SIDE ELEVATION Sv=1:100 Sh=1:200

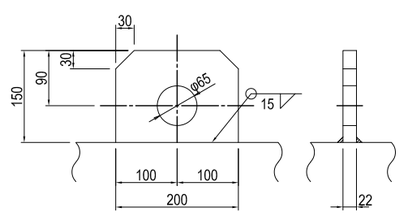


STEEL PIPE SHEET PILE TYPE AND POSITION

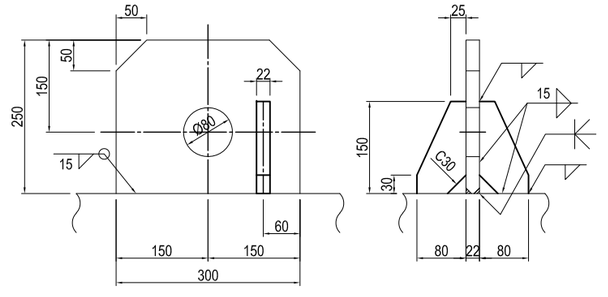


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



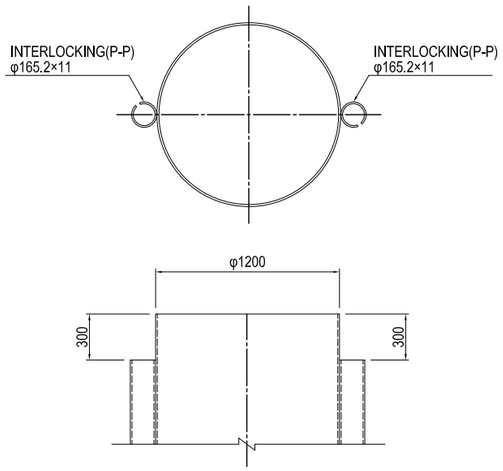
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

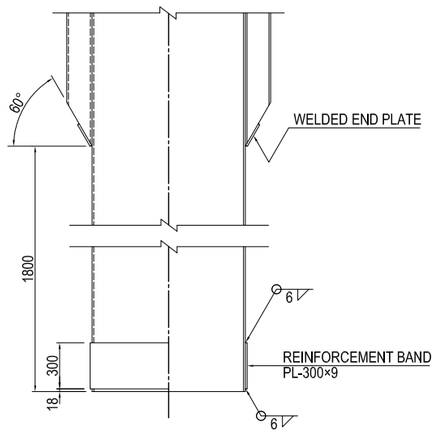
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	DETAIL OF STEEL PIPE SHEET PILE OF P6 PIER (2)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2029

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P6 PIER

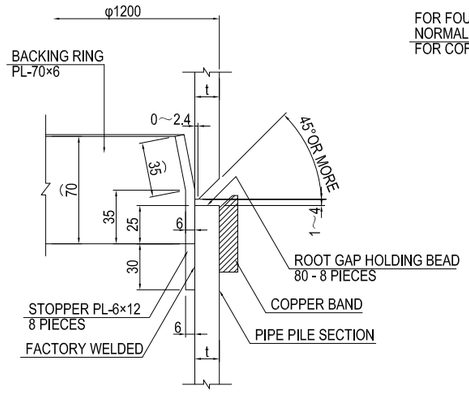
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



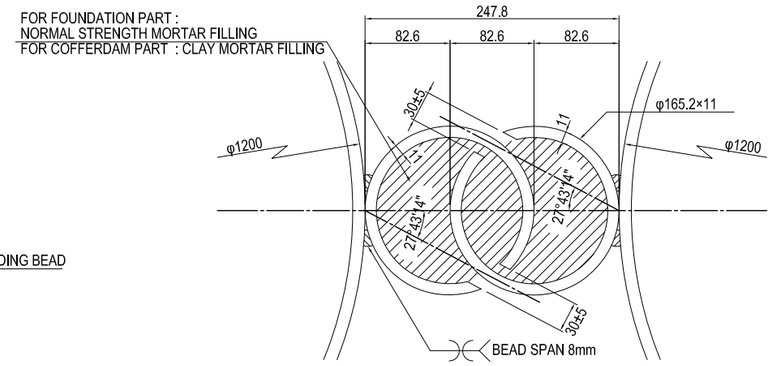
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



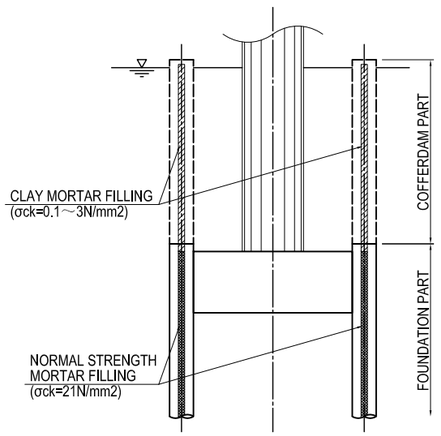
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



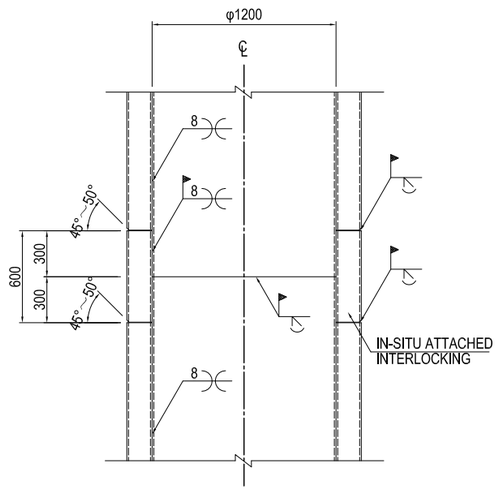
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



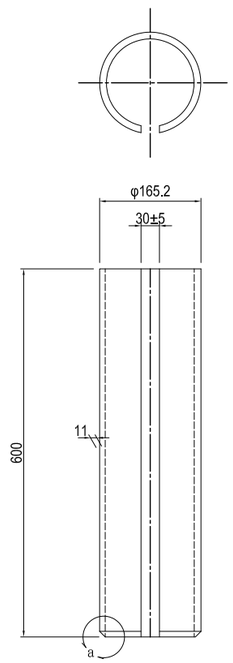
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



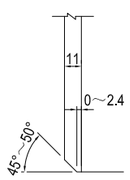
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



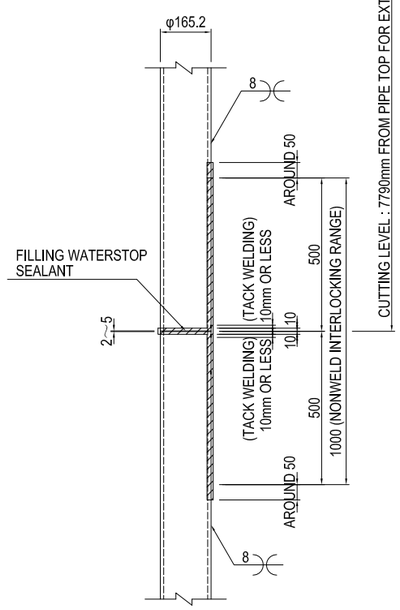
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



DETAIL a

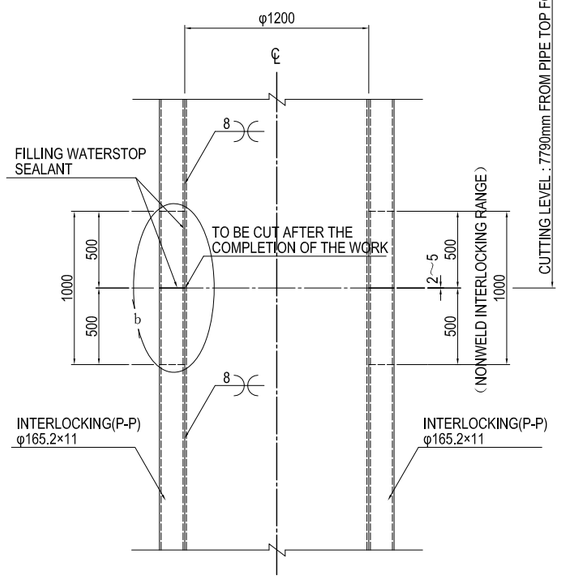


DETAIL b



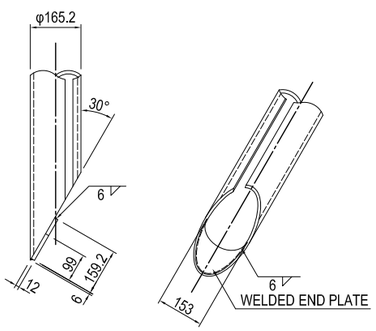
CUTTING LEVEL : 7790mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 7790mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20



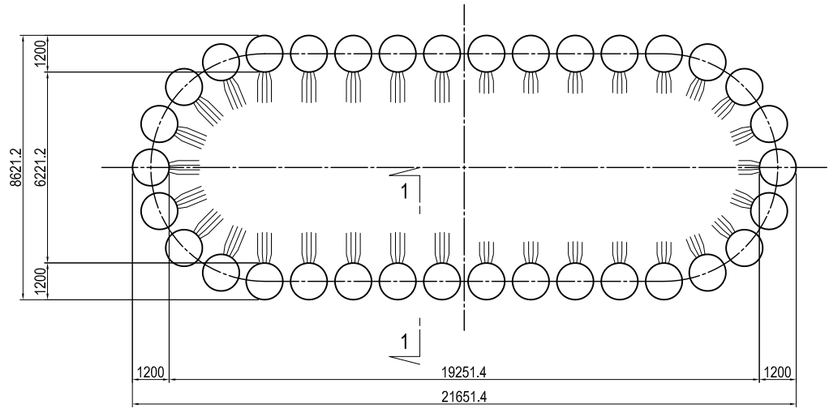
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P6 PIER
PACKAGE	1
DWG No.	P1-SB-2030

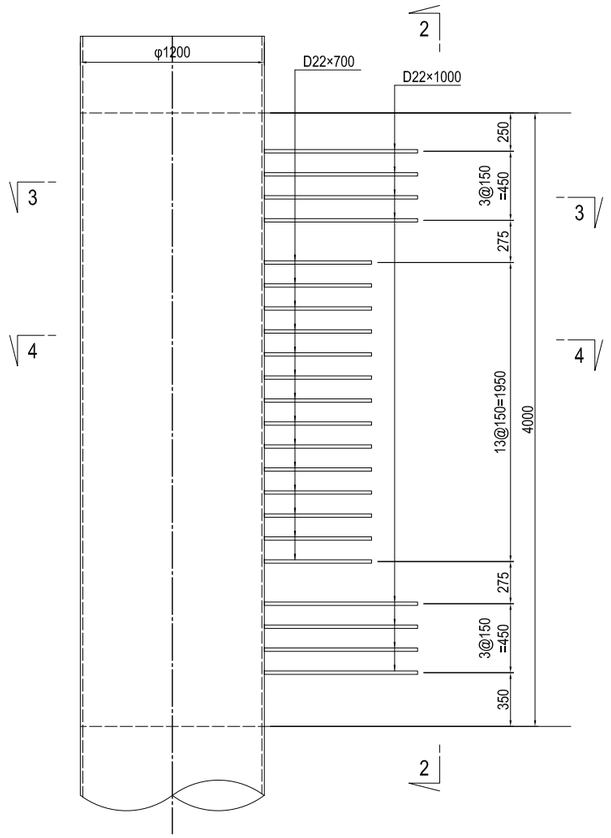
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P6 PIER

PLAN S=1:200

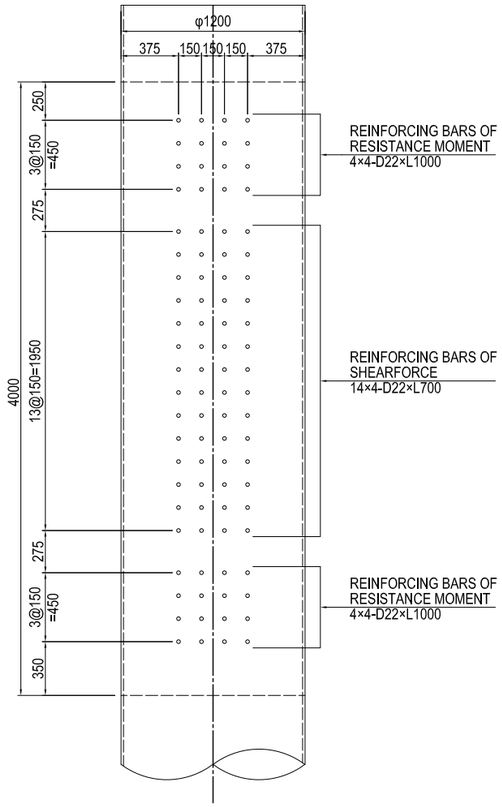


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

1 - 1 CROSS SECTION

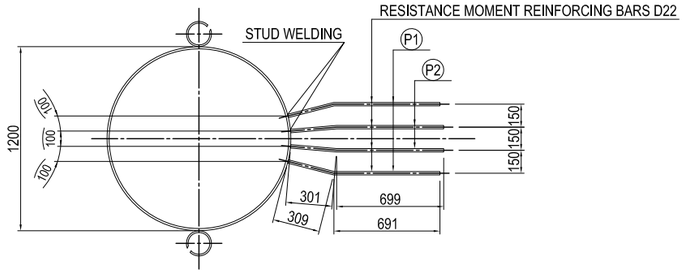


2 - 2 CROSS SECTION

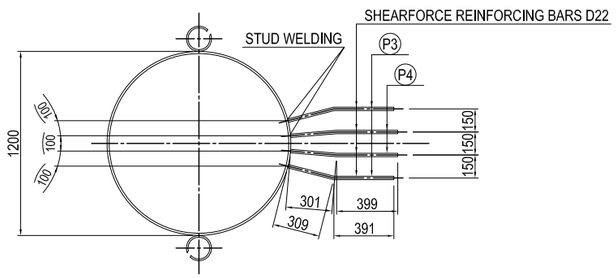


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

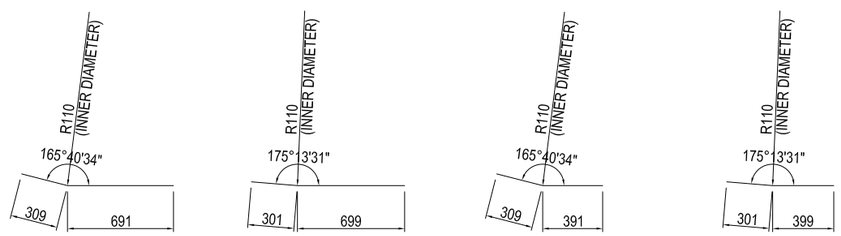


TABLE OF REINFORCING BARS

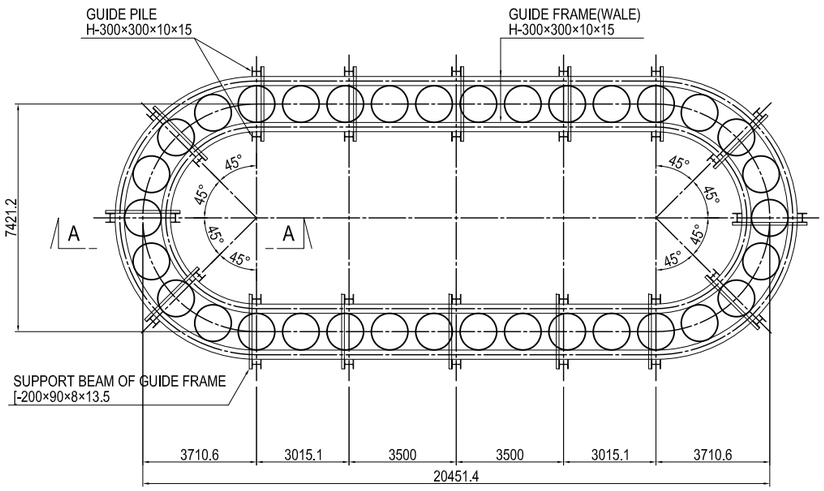
MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1	D22	1000	544	3.04	3.04	1653.8	SD345 for STUD WELDING	
P2	D22	1000	544	3.04	3.04	1653.8	SD345 for STUD WELDING	
P3	D22	700	952	3.04	2.13	2027.8	SD345 for STUD WELDING	
P4	D22	700	952	3.04	2.13	2027.8	SD345 for STUD WELDING	
				D22	7363.2	kg		
				TOTAL WEIGHT	7363.2	kg		

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
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.	

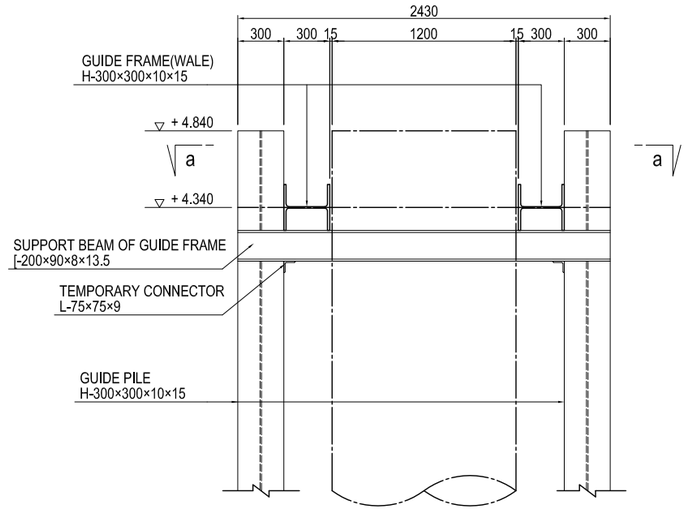
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P6 PIER	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2031

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P6 PIER (1)

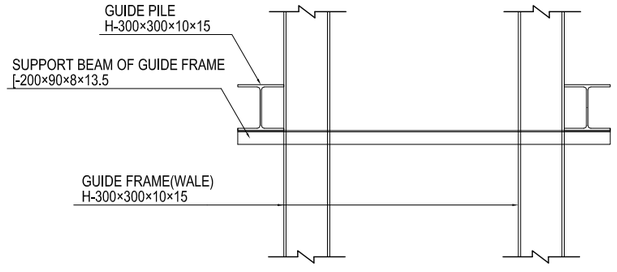
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



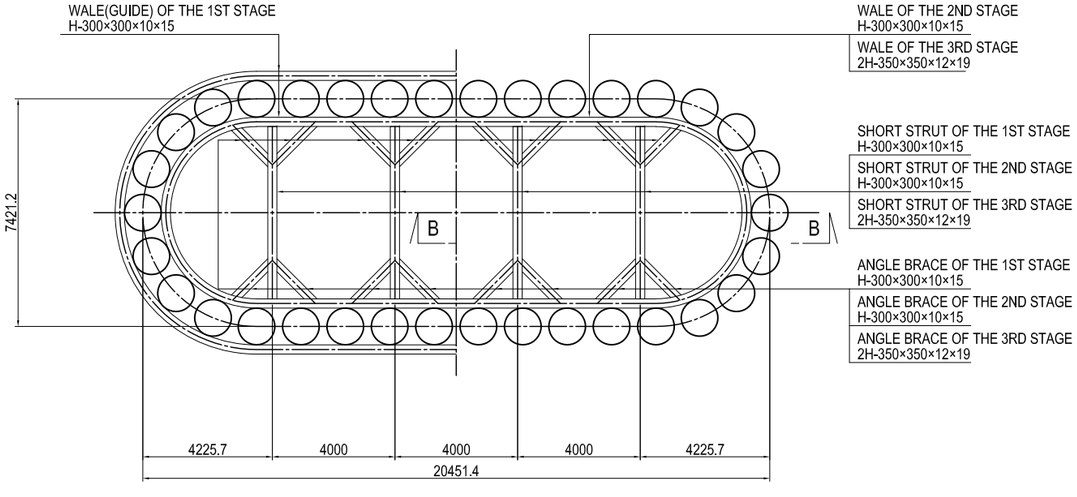
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

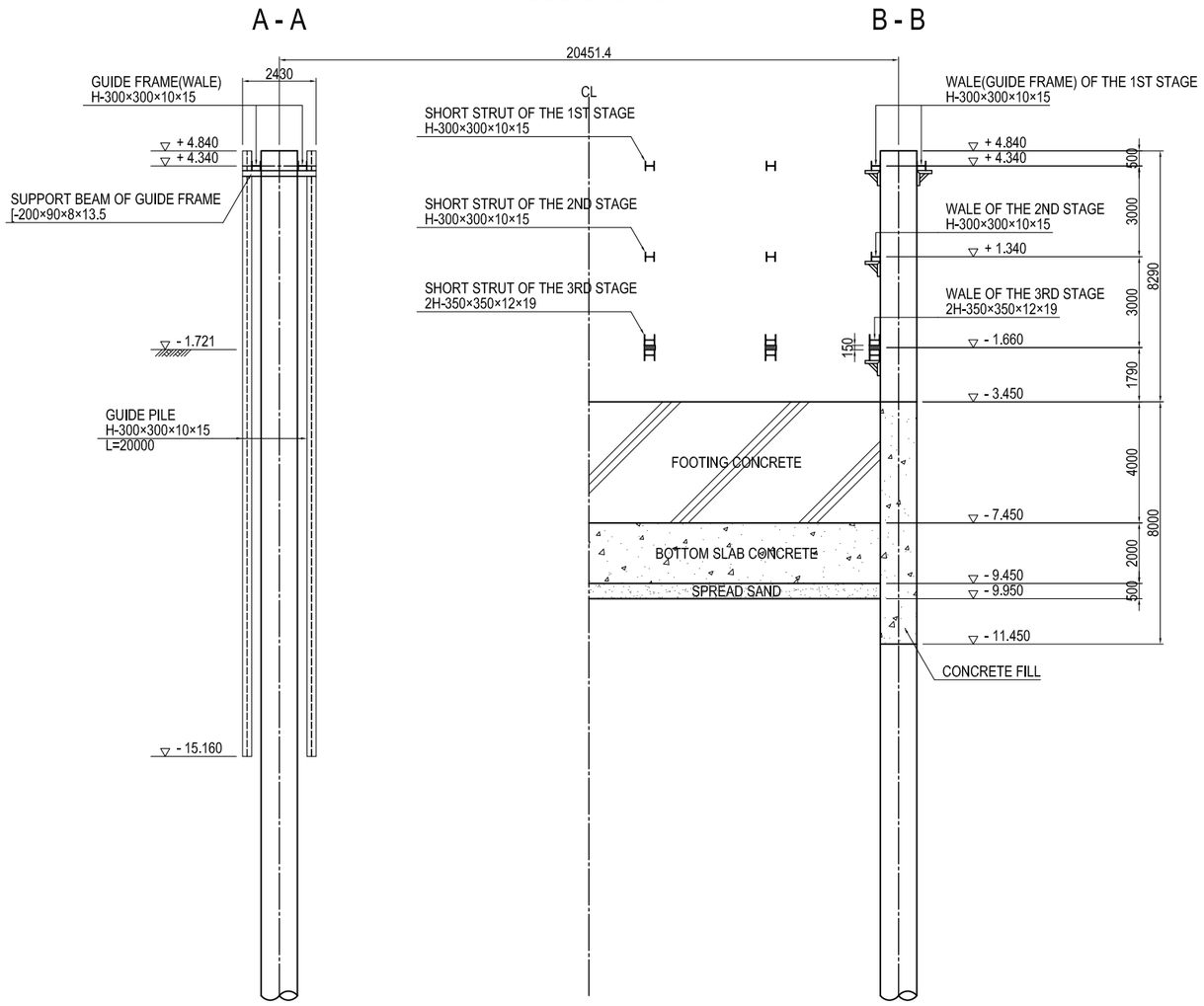


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

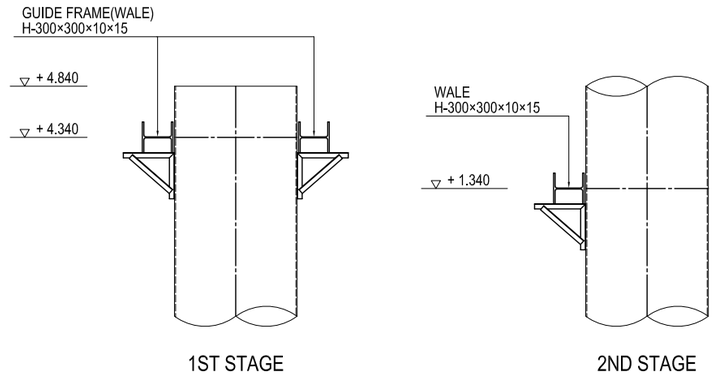
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P6 PIER (1)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2032

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P6 PIER (2)

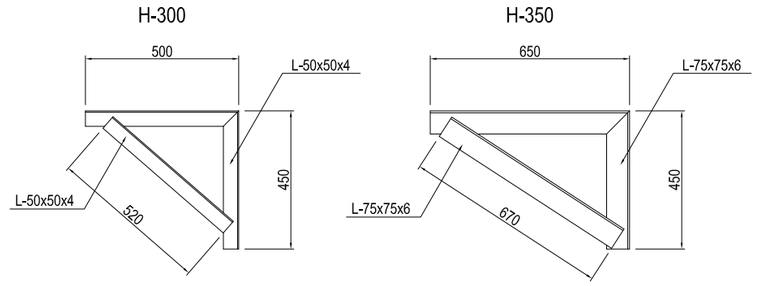
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20

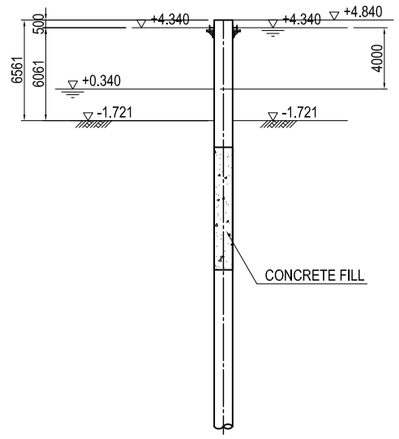
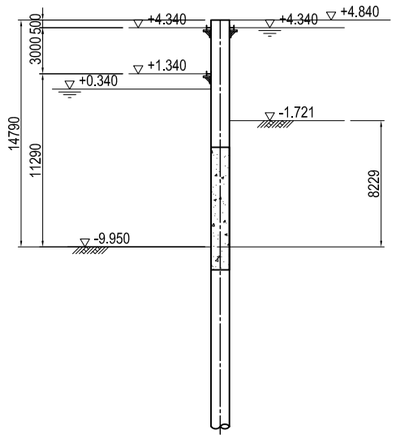
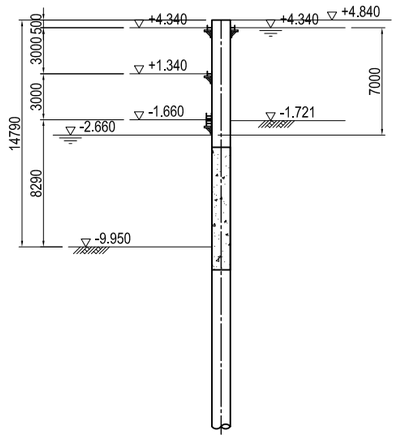
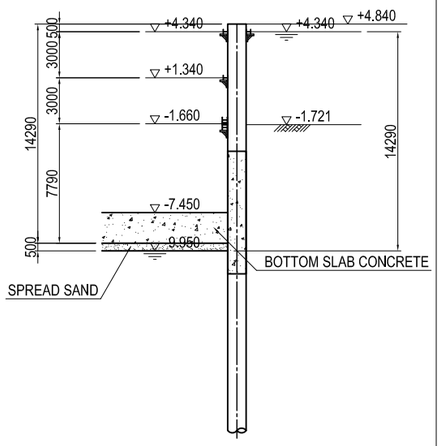
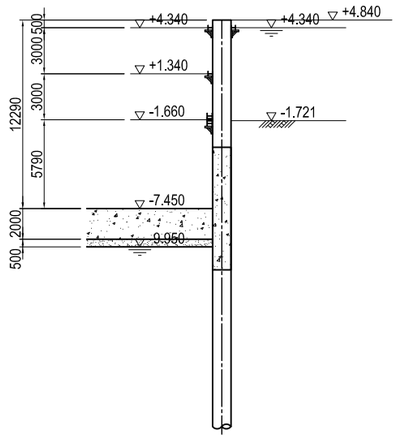
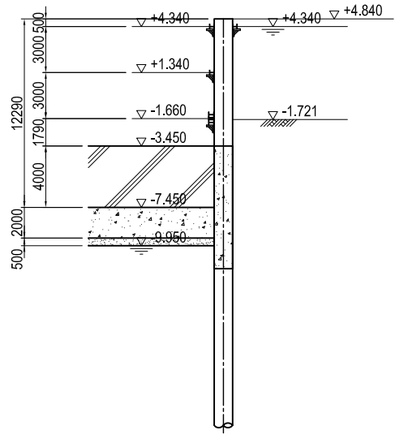


PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT			
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY			
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE			
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE
PREPARED BY	S. IMADA		27 Nov.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P6 PIER (2)
CHECKED BY	T. HAYAKAWA		28 Nov.2017	
APPROVED BY	Y. SANO		29 Nov.2017	

PACKAGE
1
DWG No.
P1-SB-2033

(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P6 PIER

S=1:400

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
				
Excavate inside of exterior sheet pilles and filled with concrete as shown. Draining the inside of cofferdam up to +0.340m level. The 1st support Installation.	The 2nd support Installation. Underwater excavation up to -9.950m level.	Draining the inside of cofferdam up to -2.660m level. The 3rd support Installation.	Draining the inside of cofferdam up to -9.950m level. Placement of spread sand followed by Casting undeawater bottom slab concrete.	Dry up inside the cofferdam.
STEP 6				
				
Casting of footing concrete.				

Note : This drawing can be used for reference only.

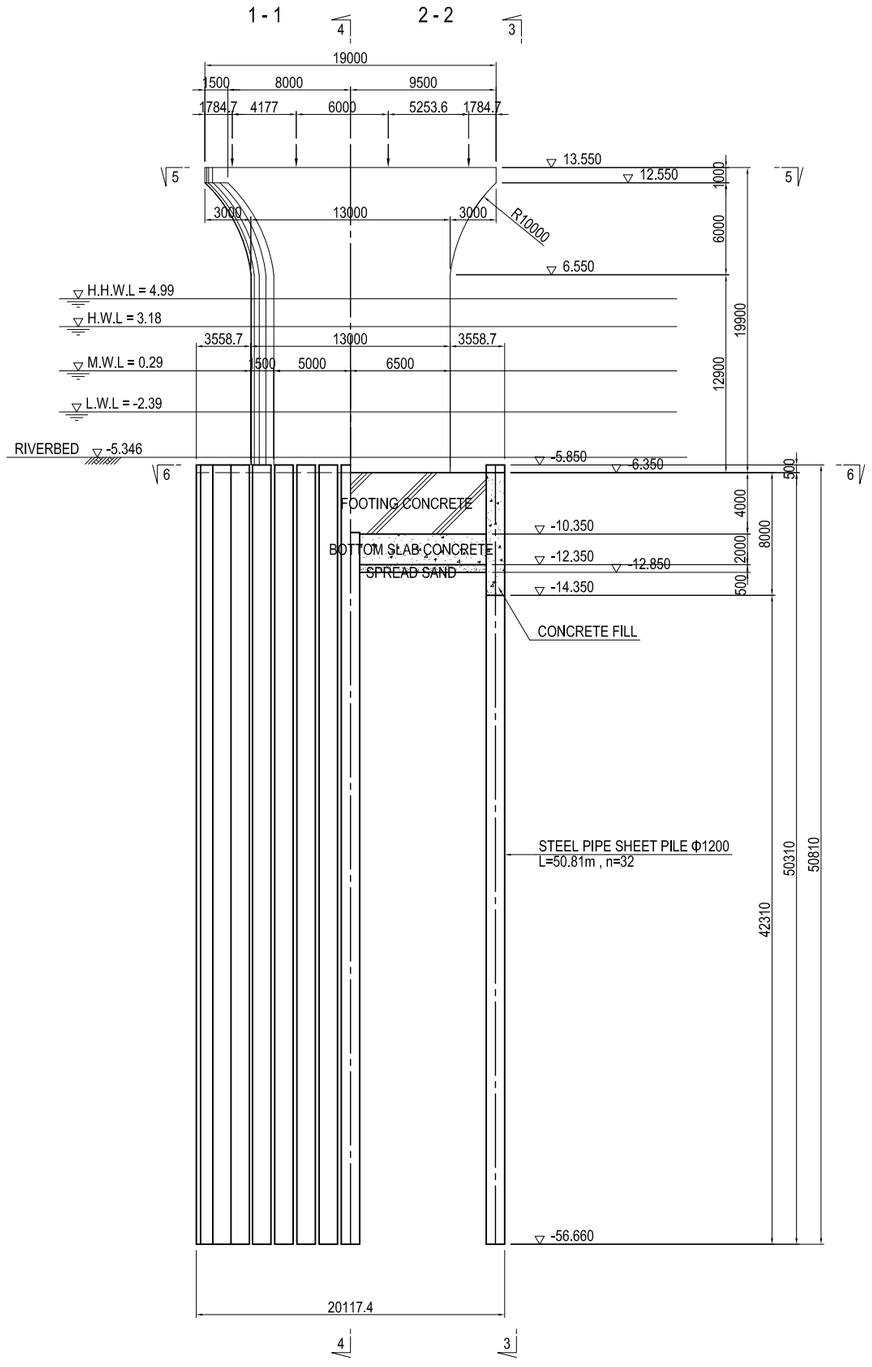
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

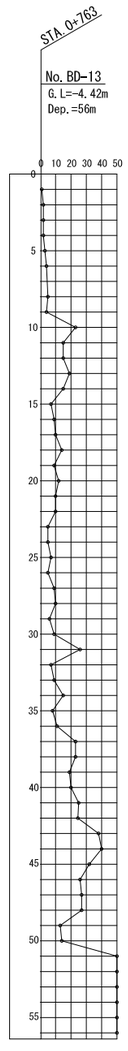
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P6 PIER	1
	DWG No.
	P1-SB-2034

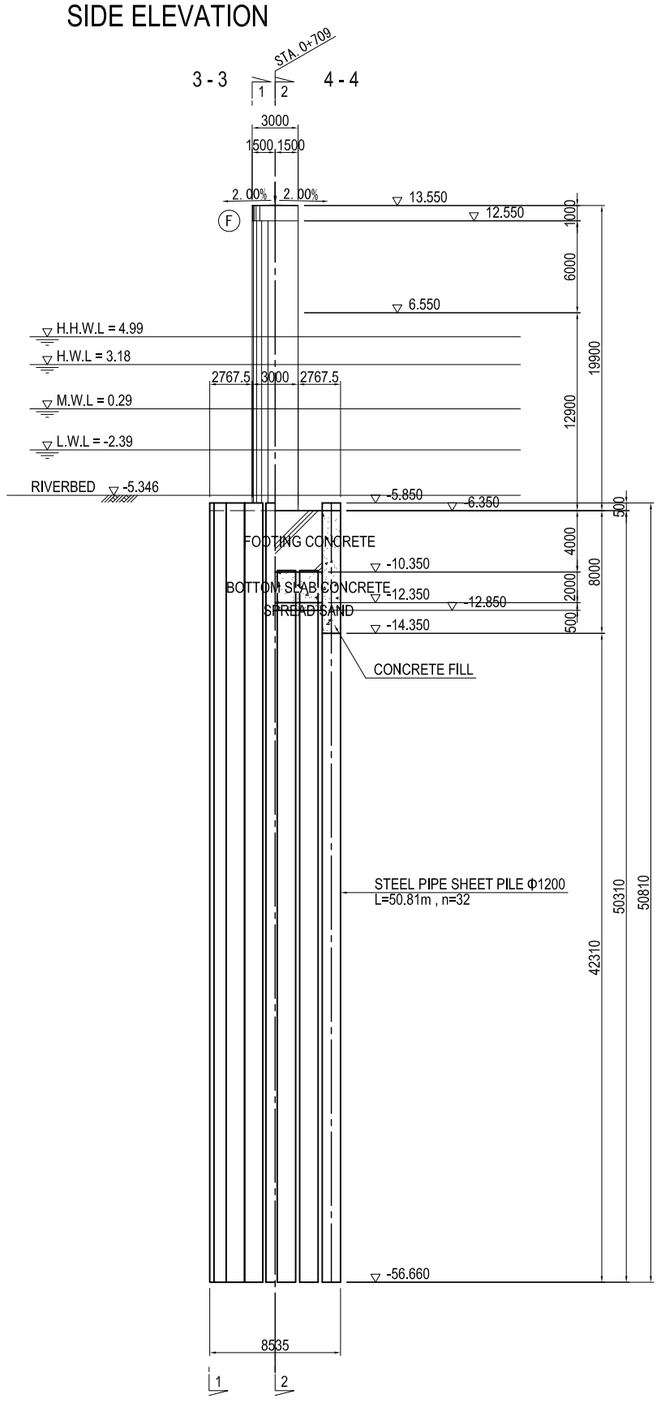
GENERAL VIEW OF P7 PIER (1) S=1:400

FRONT ELEVATION



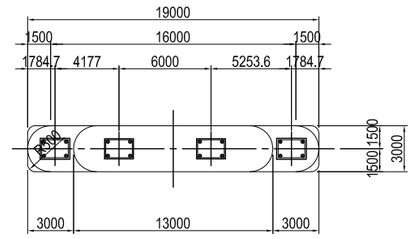


SIDE ELEVATION



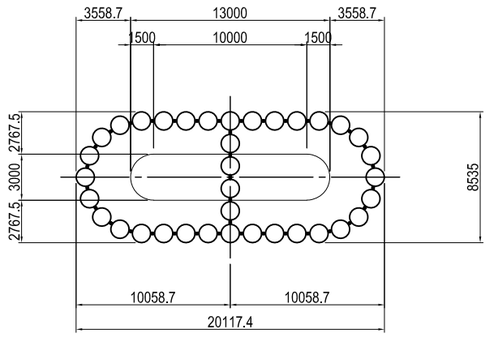
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD345
FOOTING	σck = 24 N/mm²	SD345

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.		

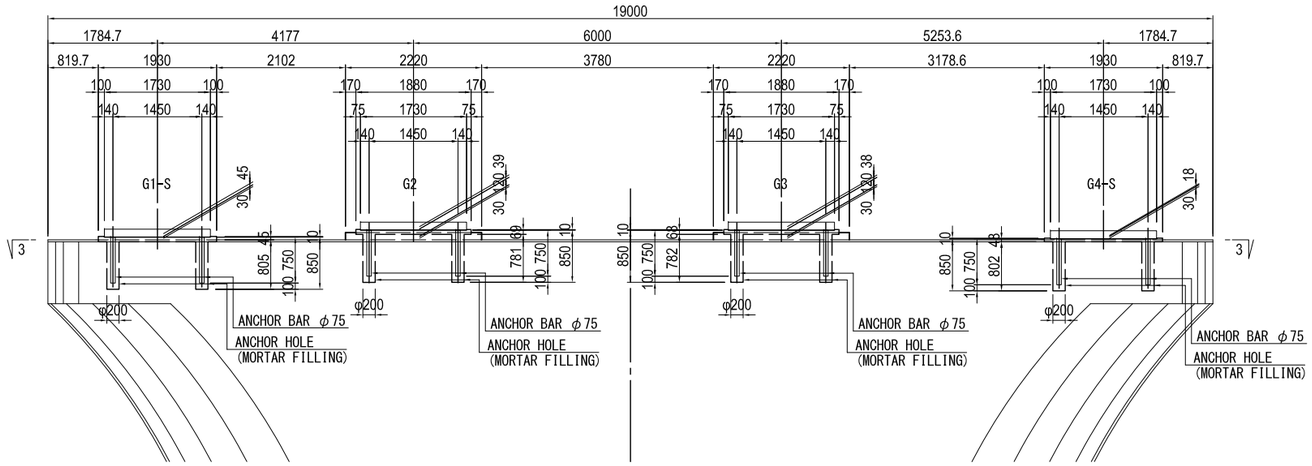
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF P7 PIER (1)	1
	DWG No.
	P1-SB-2101

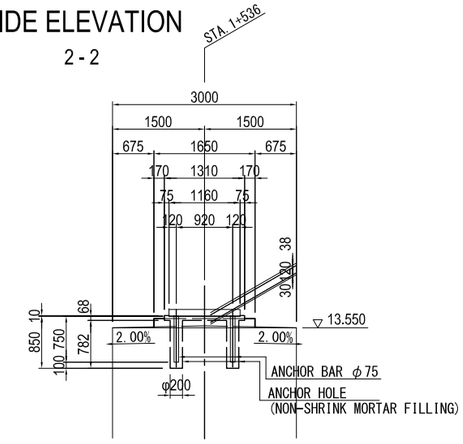
GENERAL VIEW OF P7 PIER (2) S=1:100

DETAIL OF BEARING AND ANCHOR

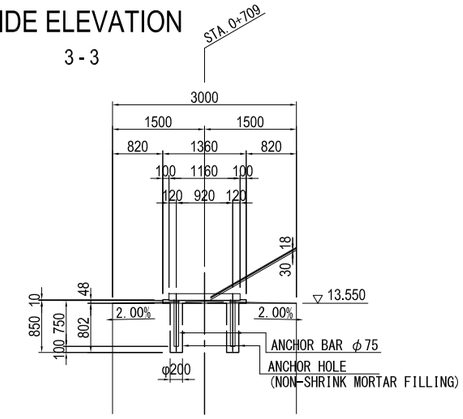
FRONT ELEVATION
1 - 1



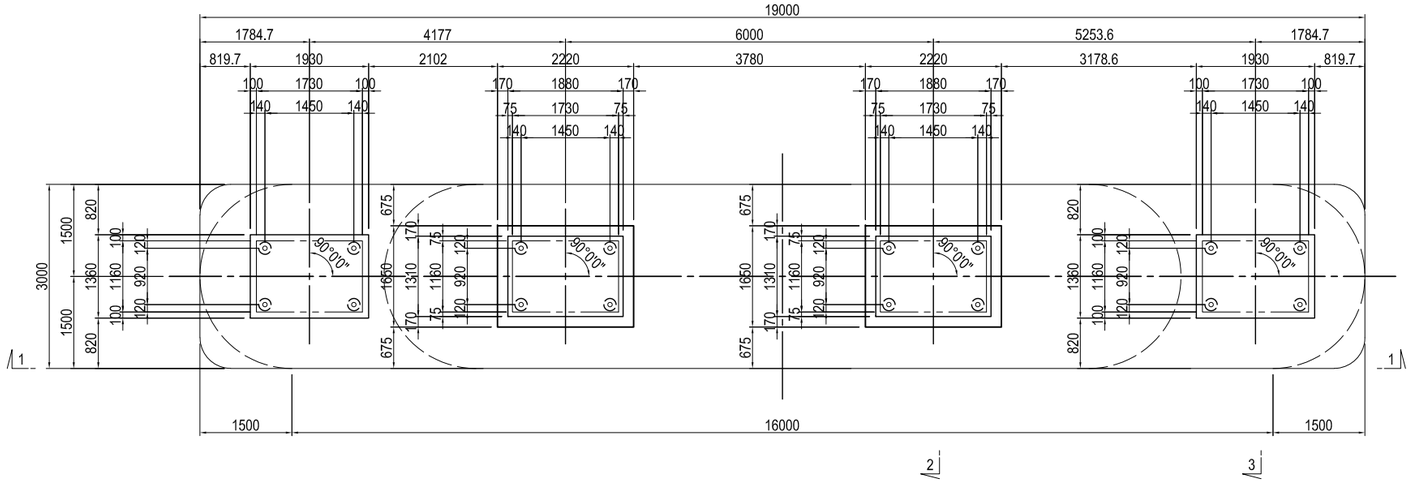
SIDE ELEVATION
2 - 2

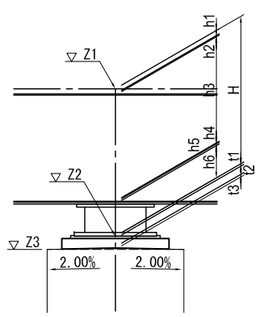


SIDE ELEVATION
3 - 3



PLAN
3 - 3





		P7 PIER			
		G1-S	G2	G3	G4-S
PROPOSED HEIGHT	Z1	17.031	17.114	17.114	17.009
PAVEMENT	h1	0.080	0.080	0.080	0.080
UPPER FLANGE	h2	0.016	0.016	0.016	0.016
GIRDER	h3	2.706	2.700	2.700	2.706
BOTTOM FLANGE	h4	0.052	0.027	0.028	0.057
SOLE PLATE	h5	0.043	0.043	0.043	0.043
BEARING	h6	0.509	0.509	0.509	0.509
SUBTOTAL	H	3.406	3.375	3.376	3.411
ELEVATION OF BEARING BOTTOM	Z2	13.625	13.739	13.738	13.598
MORTAR	t1	0.045	0.039	0.038	0.018
BEARING BASE	t2	0.000	0.120	0.120	0.000
DRAINAGE INCLINE	t3	0.030	0.030	0.030	0.030
ELEVATION OF PIER TOP	Z3	13.550	13.550	13.550	13.550

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

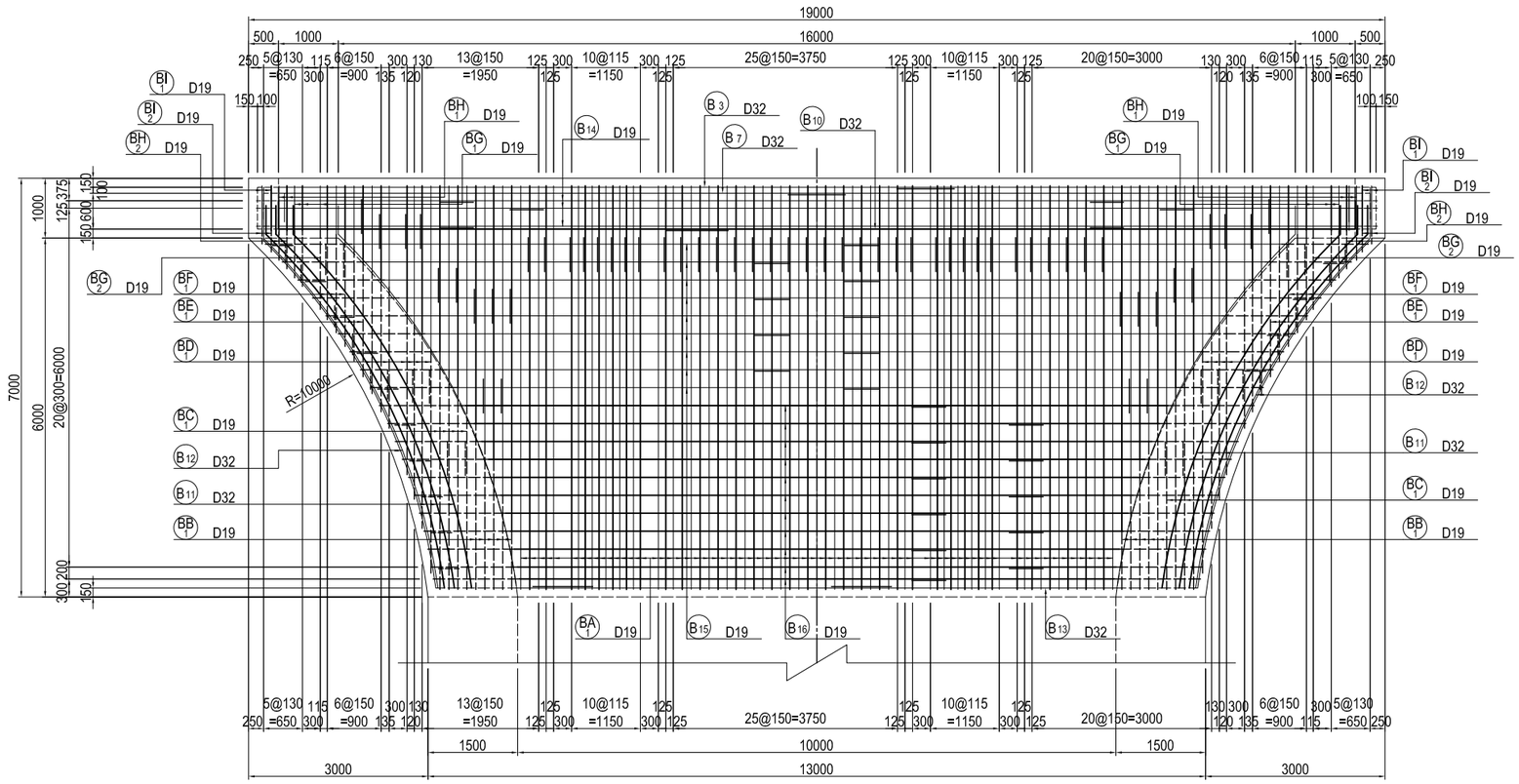
DRAWING TITLE	PACKAGE
GENERAL VIEW OF P7 PIER (2)	1
	DWG No.
	P1-SB-2102

BAR ARRANGEMENT OF P7 PIER (1)

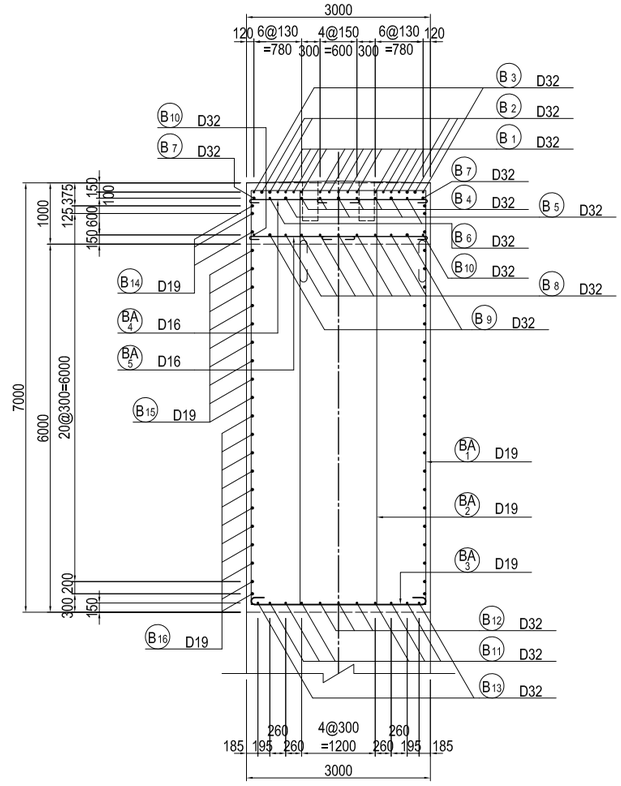
S=1:100

BEAM

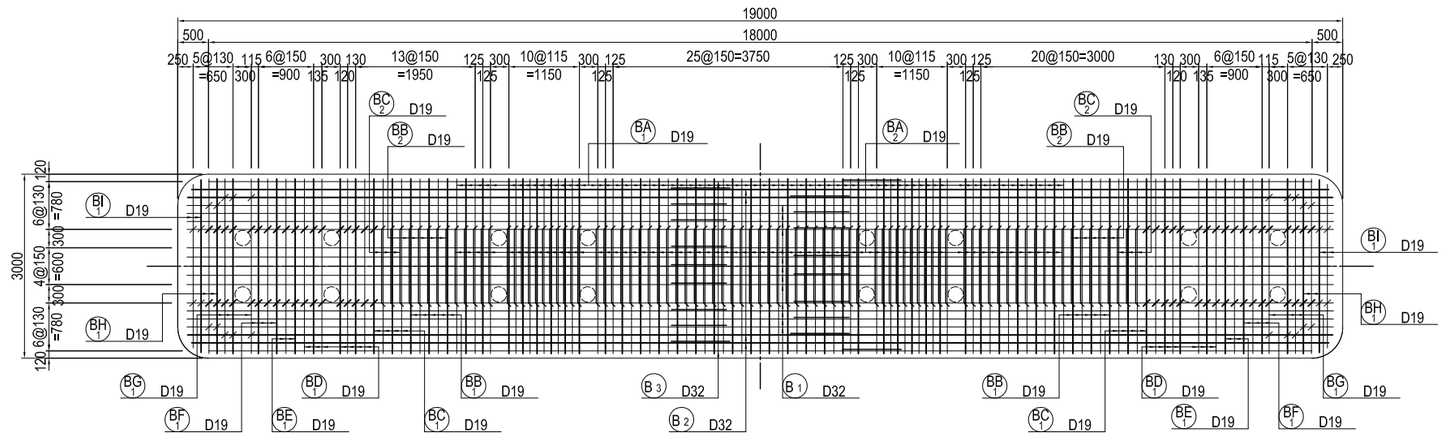
FRONT ELEVATION
1 - 1



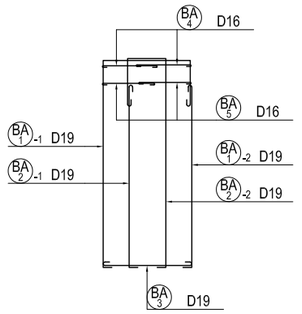
SECTION
3 - 3



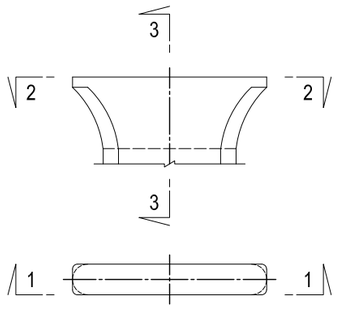
PLAN
2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

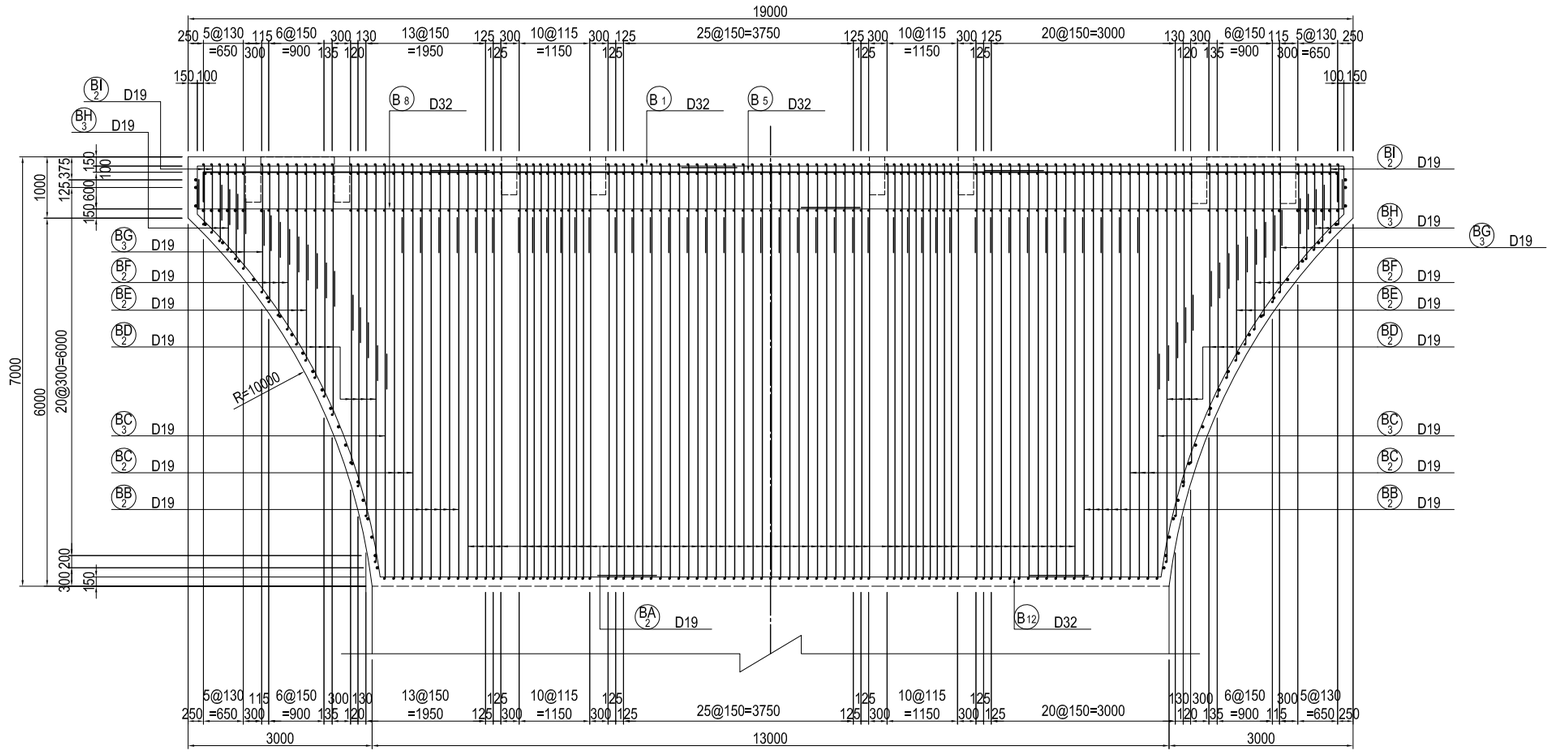
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (1)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2103

BAR ARRANGEMENT OF P7 PIER (2)

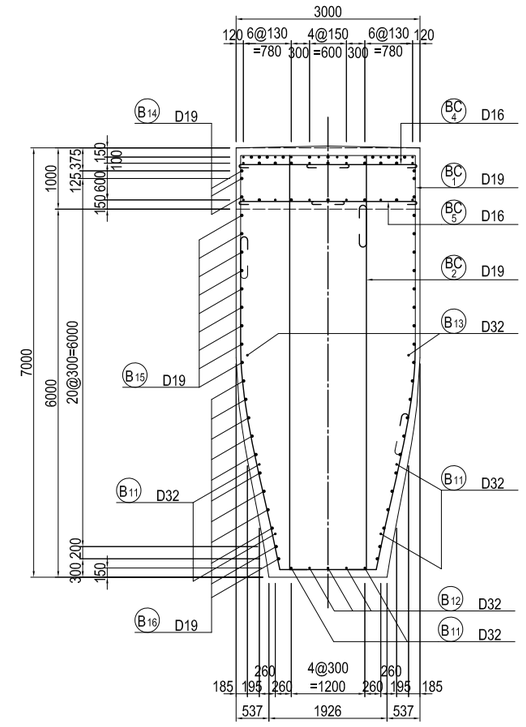
S=1:100

BEAM

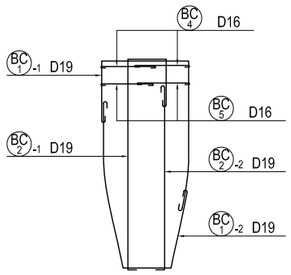
SECTION 4 - 4



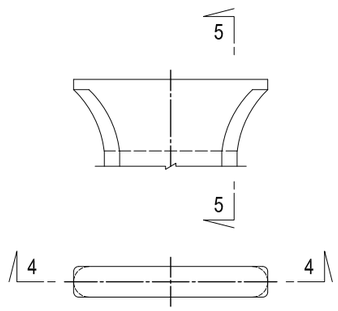
SECTION 5 - 5



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

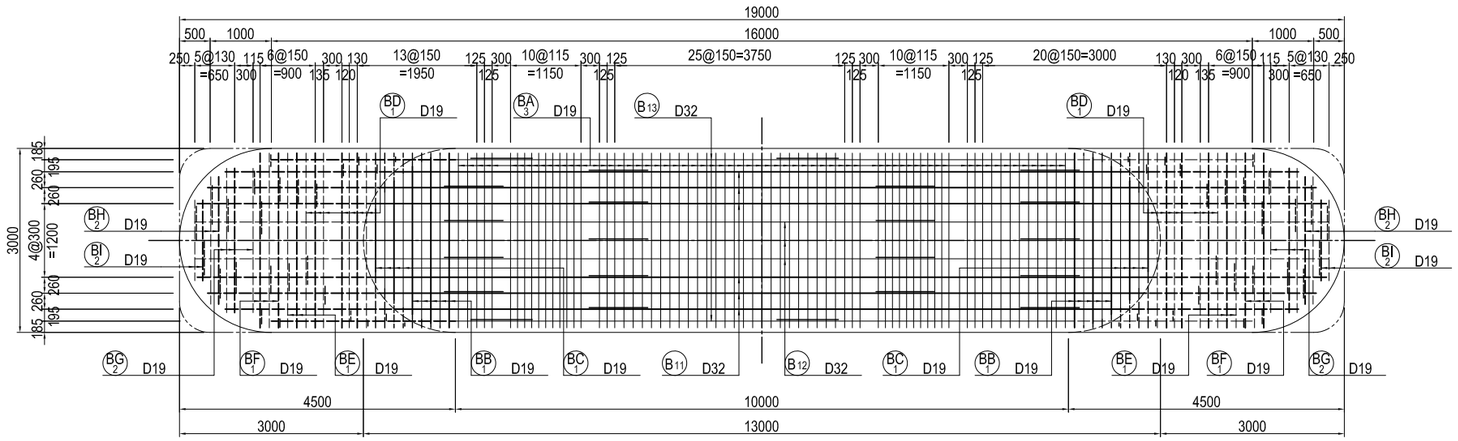
	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

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: S. IMADA 27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (2) / 1
				CHECKED BY: T. HAYAKAWA 28 Nov.2017	DWG No.
				APPROVED BY: Y. SANO 29 Nov.2017	P1-SB-2104

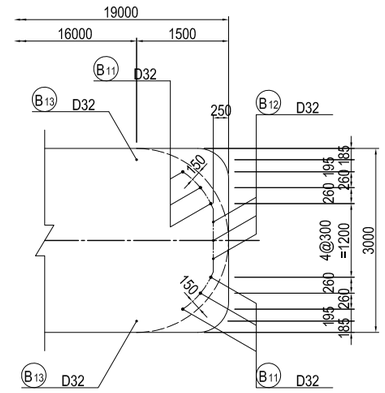
BAR ARRANGEMENT OF P7 PIER (3) S=1:100

BEAM

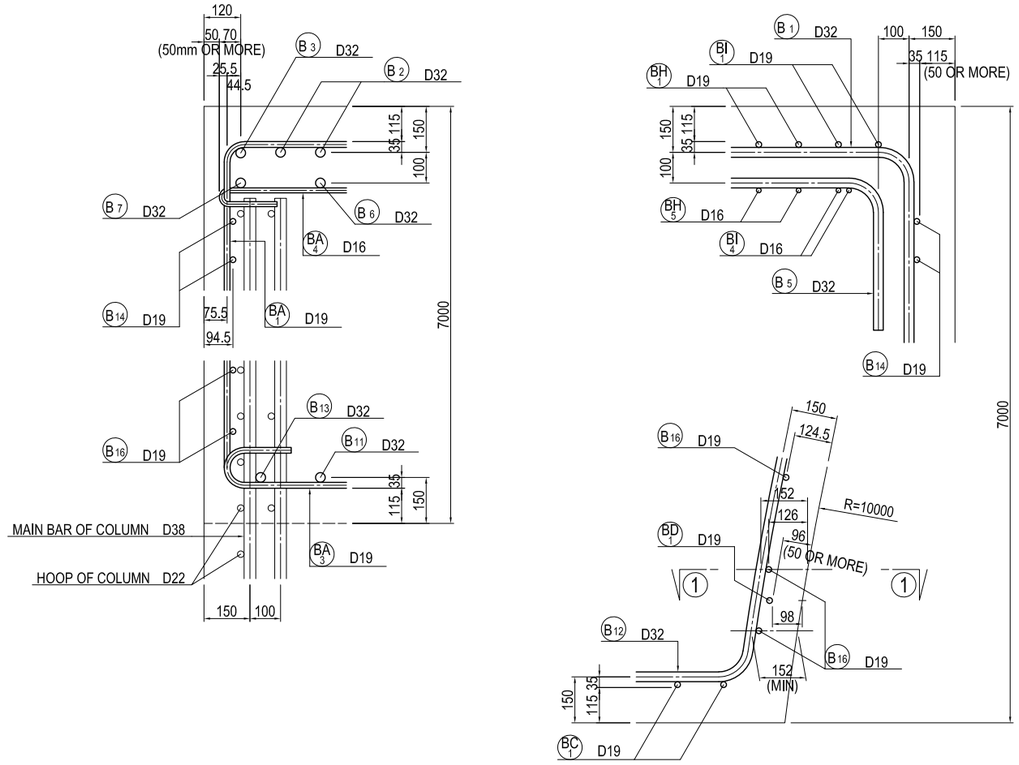
PLAN 6 - 6

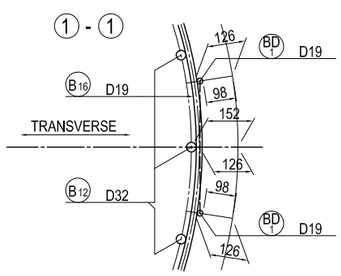


PLAN 7 - 7

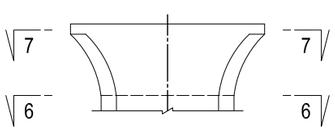


DETAIL OF BEAM S=1:20





MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

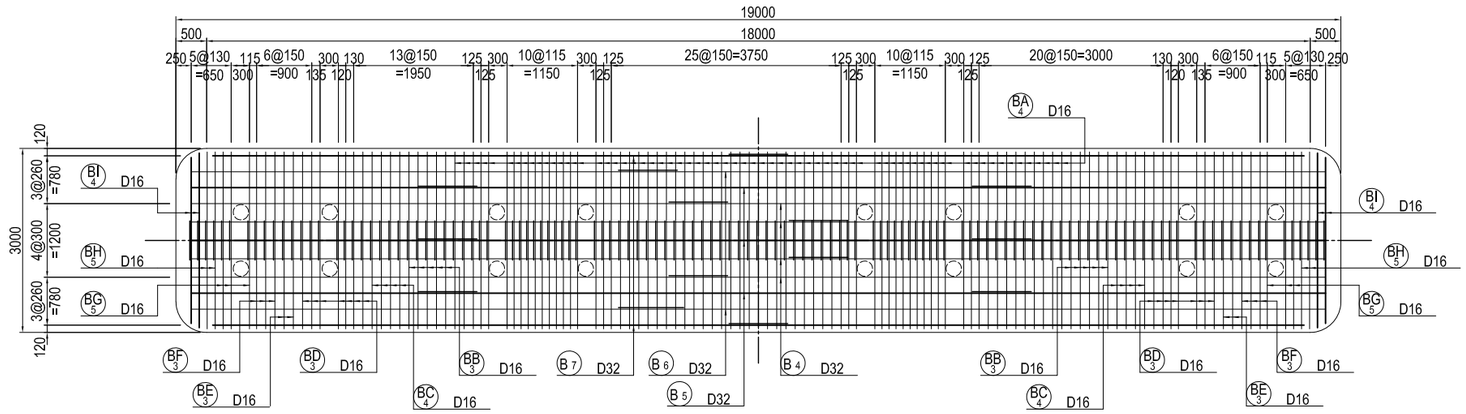
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (3)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2105

BAR ARRANGEMENT OF P7 PIER (4)

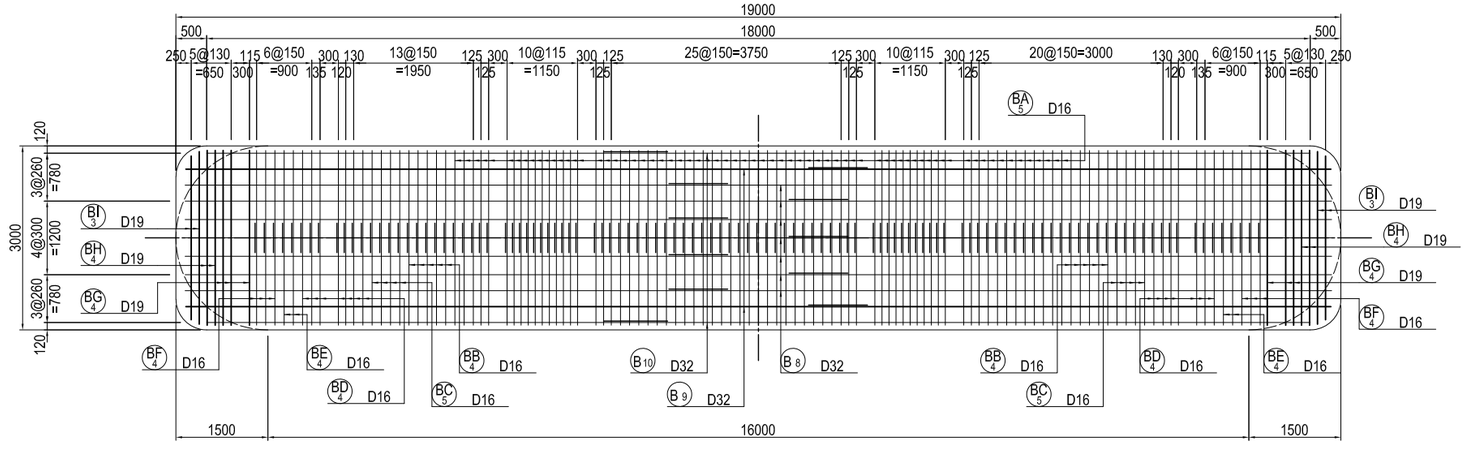
S=1:100

BEAM

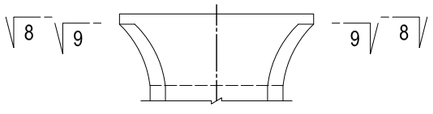
PLAN
8 - 8



PLAN
9 - 9



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (4)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2106

BAR ARRANGEMENT OF P7 PIER (5) S=1:100

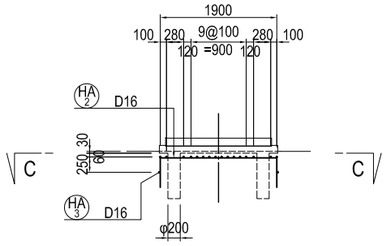
BEAM

BAR ARRANGEMENT OF BEARING BASE

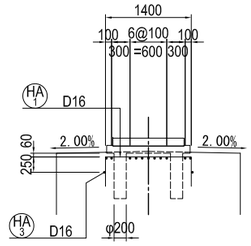
< G1-S , G4-S >

SECTION

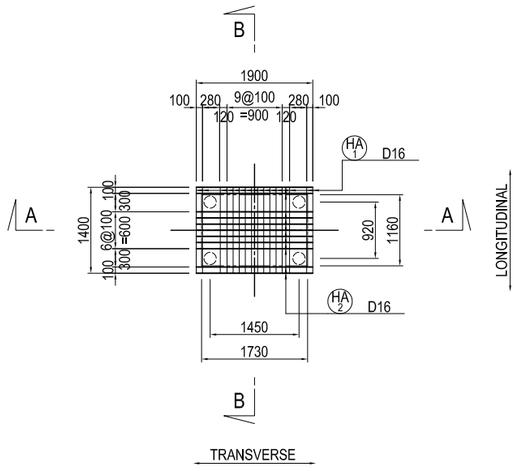
A - A

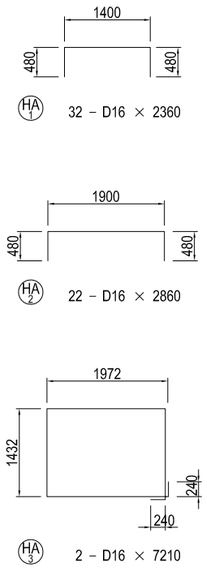


B - B



PLAN
C - C

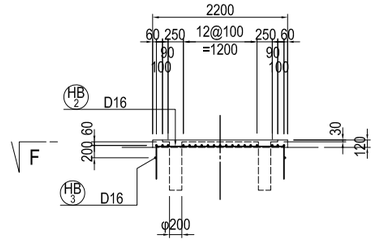




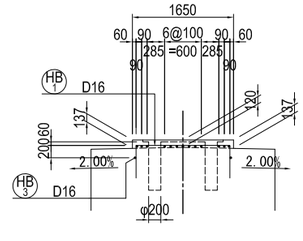
< G2 , G3 >

SECTION

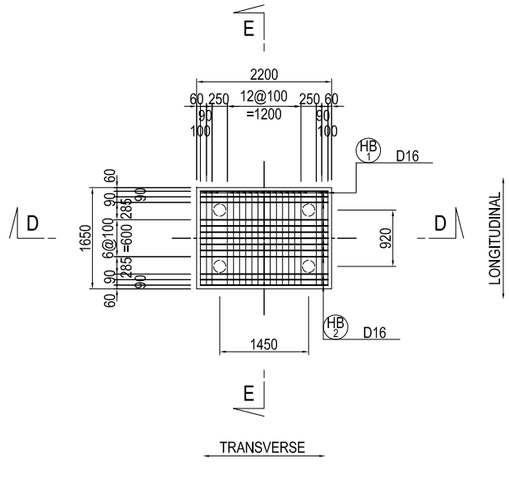
D - D

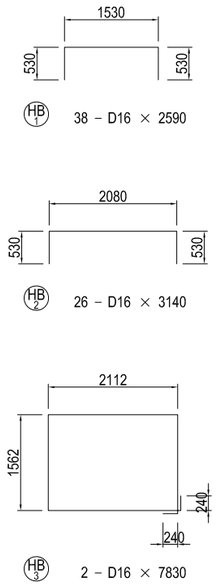


E - E



PLAN
F - F





USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

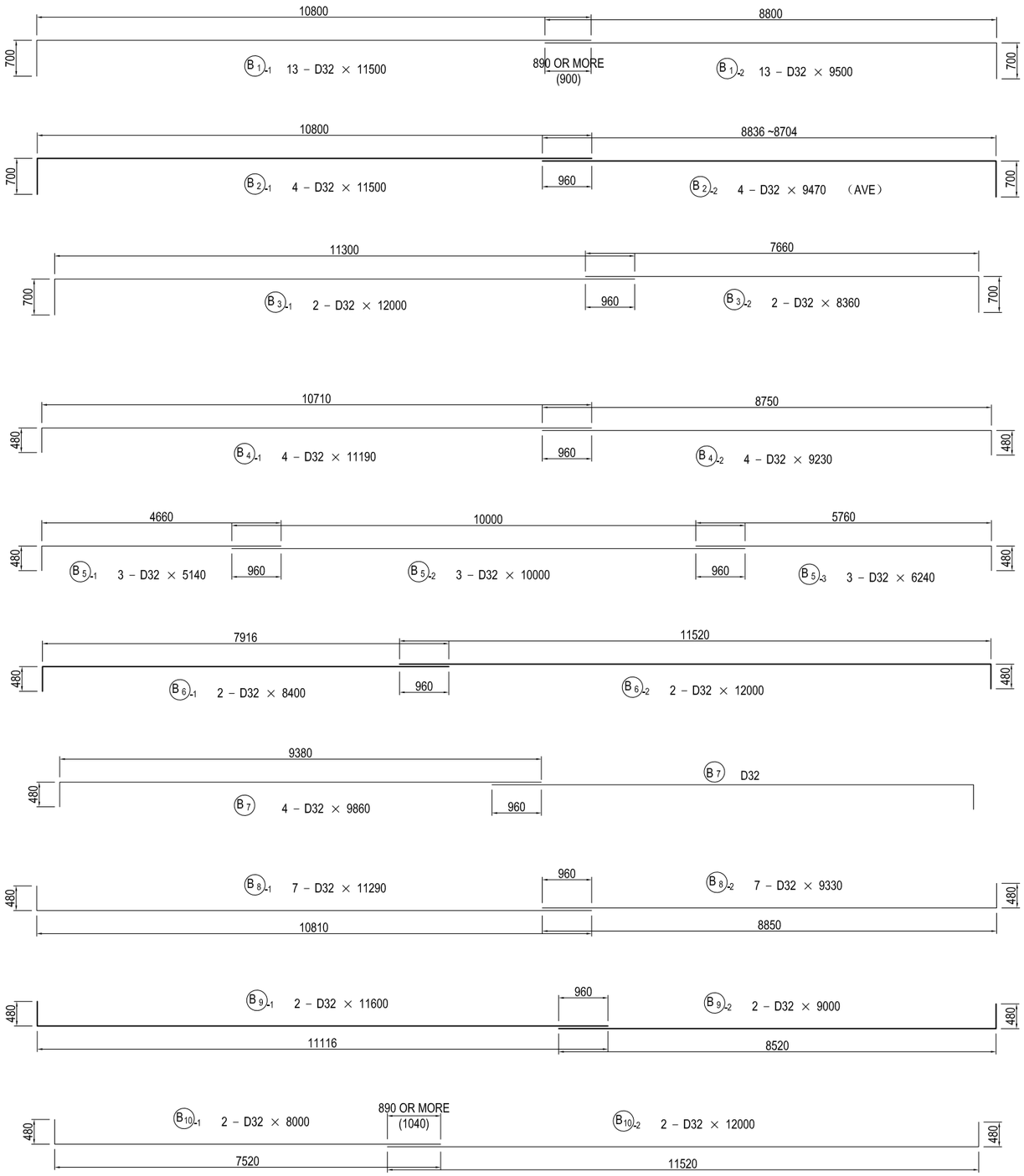
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (5)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2107

BAR ARRANGEMENT OF P7 PIER (6)

S=1:100

BEAM



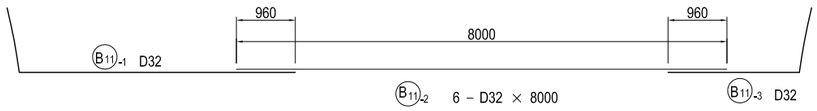
USE MATERIALS

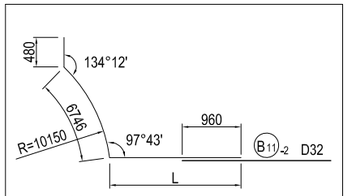
	CONCRETE	BAR
BEAM	σck = 30 N/mm ^{2}	SD345

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	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (6)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2108

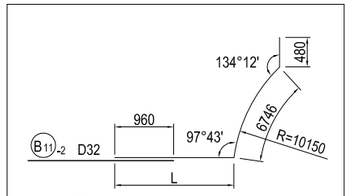
BAR ARRANGEMENT OF P7 PIER (7) S=1:100

BEAM

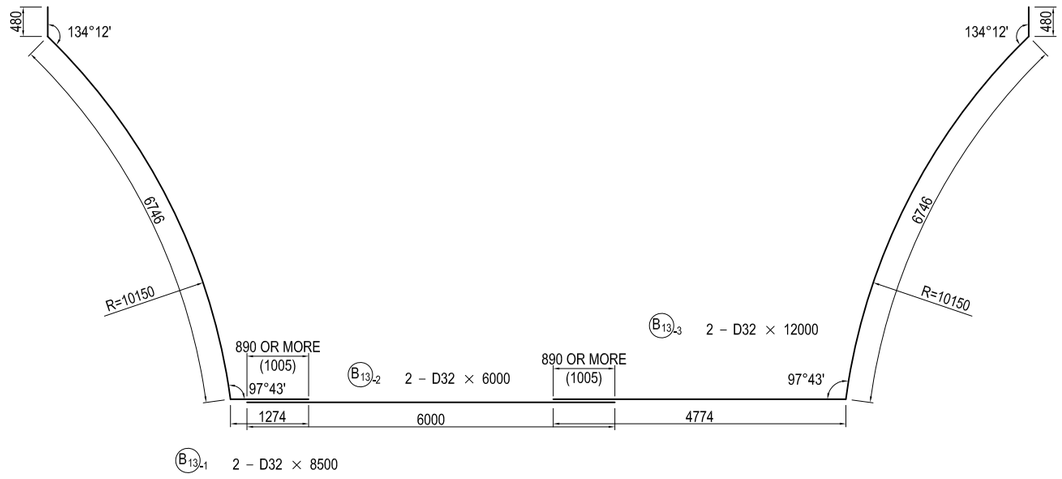


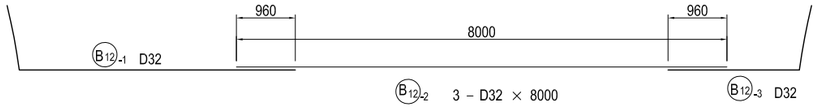


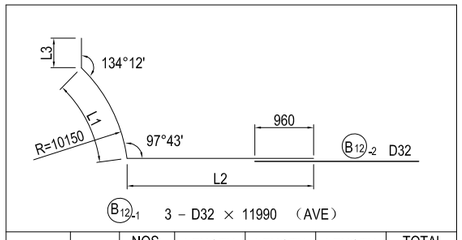
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B11 -1 1	D32	2	4367	11593
2	"	2	4199	11425
3	"	2	3912	11138
AVE		6		11385



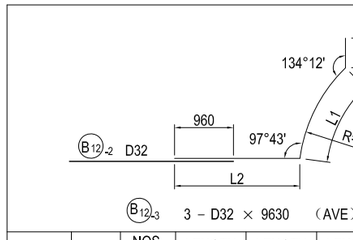
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B11 -3 1	D32	2	2007	9233
2	"	2	1839	9065
3	"	2	1552	8778
AVE		6		9025







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B12 -1 1	D32	1	6606	4508	885	11999
2	"	2	6654	4474	851	11979
AVE		3				11986



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B12 -3 1	D32	1	6606	2148	885	9639
2	"	2	6654	2114	851	9619
AVE		3				9626

USE MATERIALS

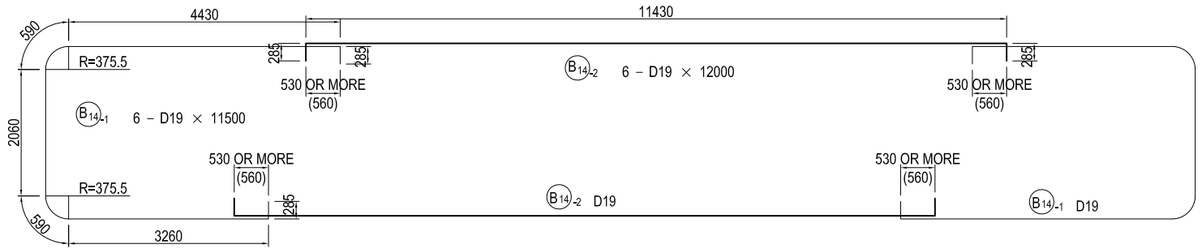
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

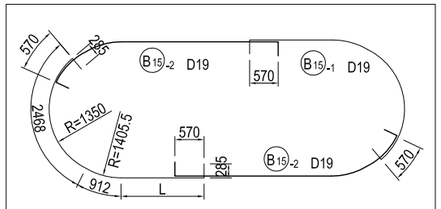
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (7)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2109

BAR ARRANGEMENT OF P7 PIER (8) S=1:100

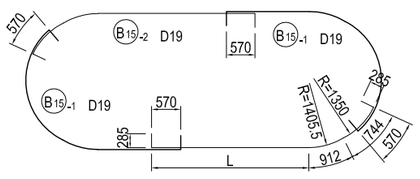
BEAM





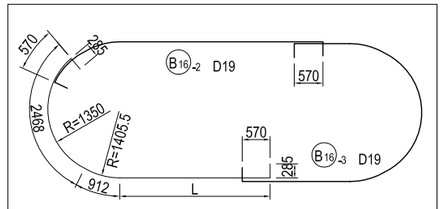
B15-1 18 – D19 × 10300 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B15-1 1	D19	2	7311	11261
2	"	2	7027	10977
3	"	2	6764	10714
4	"	2	6522	10472
5	"	2	6297	10247
6	"	2	6090	10040
7	"	2	5897	9847
8	"	2	5719	9669
9	"	2	5555	9505
AVE		18		10304



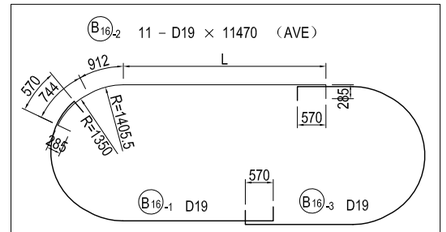
B15-2 18 – D19 × 10080 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B15-2 1	D19	2	8811	11037
2	"	2	8527	10753
3	"	2	8264	10490
4	"	2	8022	10248
5	"	2	7797	10023
6	"	2	7590	9816
7	"	2	7397	9623
8	"	2	7219	9445
9	"	2	7055	9281
AVE		18		10080

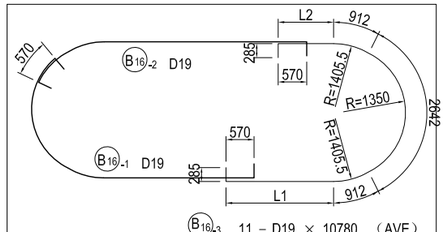


B16-1 11 – D19 × 11450 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D19	1	8029	11979
2	"	1	7889	11839
3	"	1	7762	11712
4	"	1	7645	11595
5	"	1	7540	11490
6	"	1	7444	11394
7	"	1	7359	11309
8	"	1	7284	11234
9	"	1	7218	11168
10	"	1	7162	11112
11	"	1	7130	11080
AVE		11		11447



MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D19	1	9774	12000
2	"	1	9634	11860
3	"	1	9507	11733
4	"	1	9390	11616
5	"	1	9285	11511
6	"	1	9189	11415
7	"	1	9104	11330
8	"	1	9029	11255
9	"	1	8963	11189
10	"	1	8907	11133
11	"	1	8875	11101
AVE		11		11468



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	TOTAL LENGTH ΣL
B16-3 1	D19	1	4279	2534	11849
2	"	1	4139	2394	11569
3	"	1	4012	2267	11315
4	"	1	3895	2150	11081
5	"	1	3790	2045	10871
6	"	1	3694	1949	10679
7	"	1	3609	1864	10509
8	"	1	3534	1789	10359
9	"	1	3468	1723	10227
10	"	1	3412	1667	10115
11	"	1	3380	1635	10051
AVE		11			10784

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

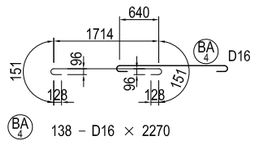
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

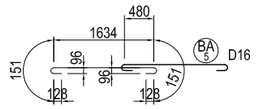
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P7 PIER (8)	1
	DWG No.
	P1-SB-2110

BAR ARRANGEMENT OF P7 PIER (9) S=1:100

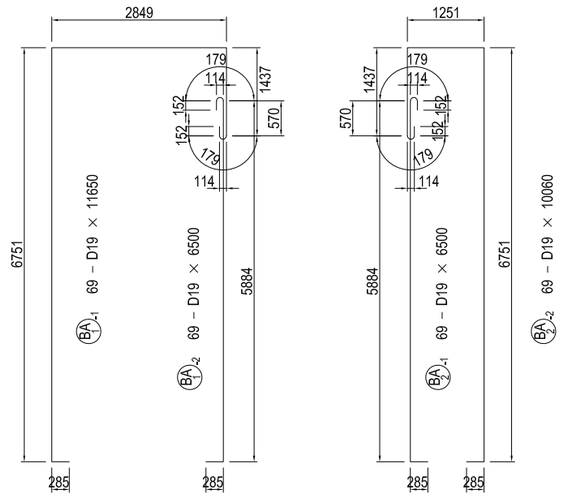
BEAM

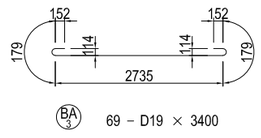


BA 4 138 – D16 × 2270

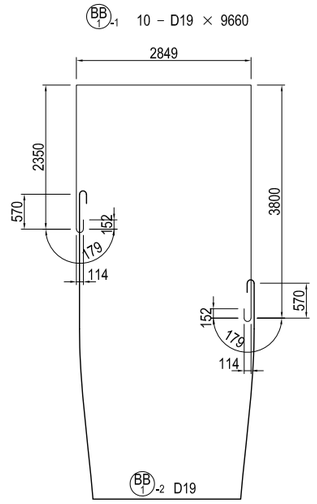


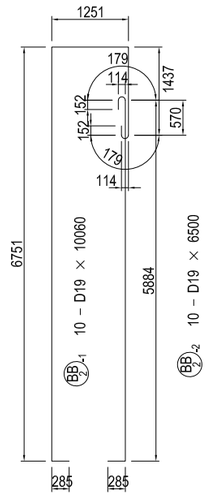
BA 5 138 – D16 × 2190

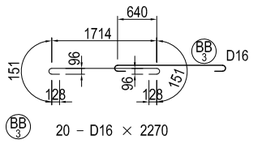




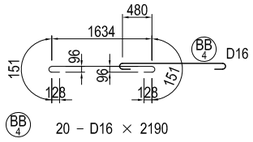
BA 3 69 – D19 × 3400



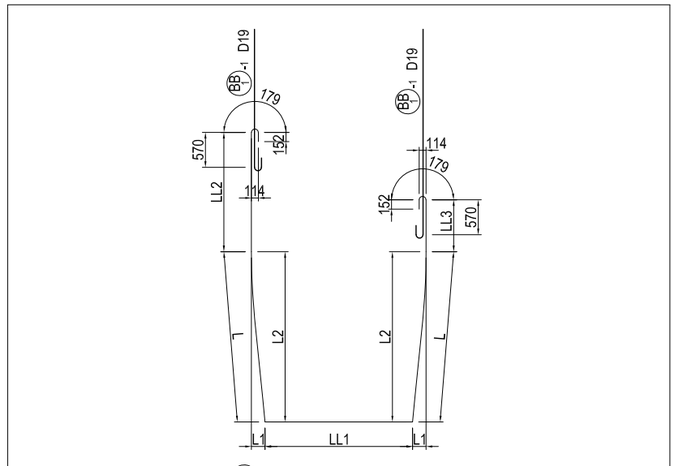




BB 3 20 – D16 × 2270



BB 4 20 – D16 × 2190



BB 1 -2 10 – D19 × 11820 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	LENGTH LL3	TOTAL LENGTH ΣL
BB1-2 1	D19	2	976	8	976	2833	3995	2545	11987
2	"	2	1576	34	1576	2781	3395	1945	11935
3	"	2	2177	76	2176	2697	2795	1345	11853
4	"	2	2480	138	2476	2573	2495	1045	11735
5	"	2	2785	221	2776	2407	2195	745	11579
AVE		10							11818

USE MATERIALS

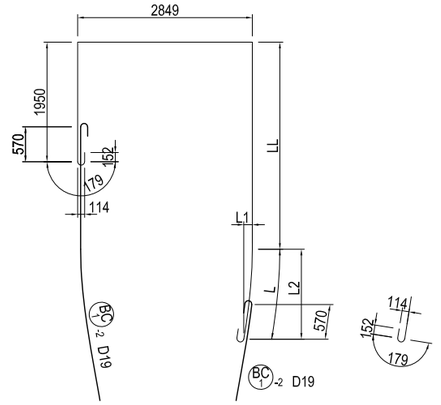
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (9)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2111

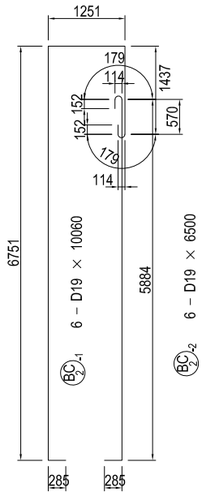
BAR ARRANGEMENT OF P7 PIER (10) S=1:100

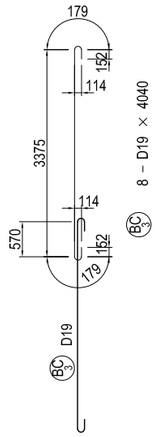
BEAM

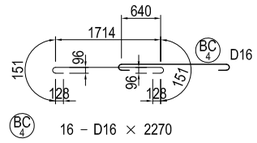


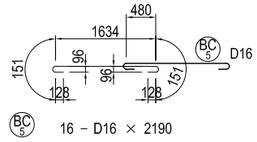
BC1-1 8 – D19 × 10310 （AVE）

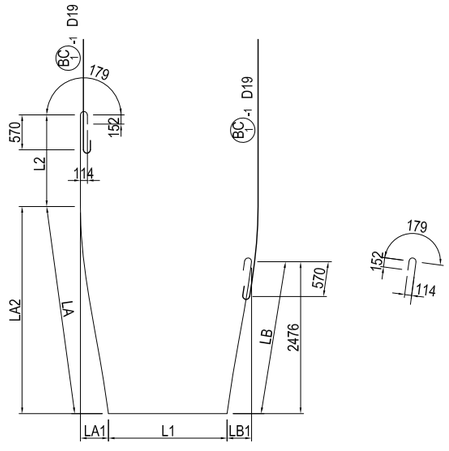
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D19	2	1171	77	1167	3675	10307
2	"	2	1475	139	1466	3375	10311
3	"	2	1777	221	1759	3075	10313
4	"	2	2085	324	2053	2775	10321
AVE		8					10313











BC1-2 8 – D19 × 10300 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH L1	LENGTH L2	TOTAL LENGTH ΣL
BC1-2 1	D19	2	3095	326	3076	2494	304	2198	2295	10744
2	"	2	3410	457	3376	2508	400	1934	1995	10509
3	"	2	3738	638	3676	2531	527	1573	1695	10199
4	"	2	4098	918	3976	2583	733	1013	1395	9751
AVE		8								10301

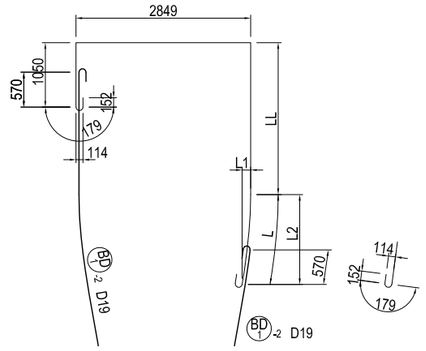
USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

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	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (10)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2112

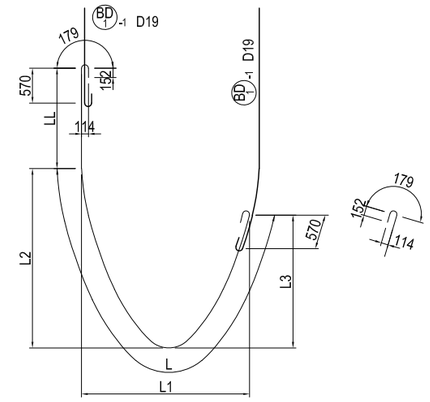
BAR ARRANGEMENT OF P7 PIER (11) S=1:100

BEAM



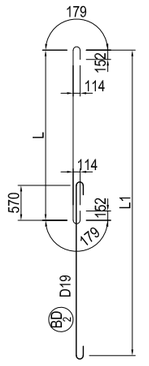
BD1-1 14 – D19 × 8260 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D19	2	907	118	898	2740	8208
2	"	2	1205	191	1187	2444	8210
3	"	2	1339	273	1306	2316	8216
4	"	2	1553	359	1502	2109	8223
5	"	2	1993	660	1853	1713	8267
6	"	2	2190	866	1956	1544	8295
7	"	2	2391	1158	1982	1426	8378
AVE		14					8257



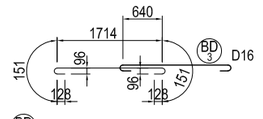
BD1-2 14 – D19 × 7700 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D19	2	7888	2824	3737	3401	2260	10810
2	"	2	6806	2786	3285	2653	1964	9432
3	"	2	6057	2739	2926	2166	1836	8555
4	"	2	5546	2682	2751	1785	1629	7837
5	"	2	4453	2478	2367	1004	1233	6348
6	"	2	4025	2348	2227	705	1074	5761
7	"	2	3515	2150	2049	400	946	5123
AVE		14						7695

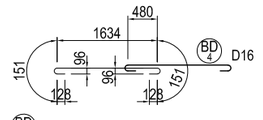


BD2 56 – D19 × 3030 （AVE）

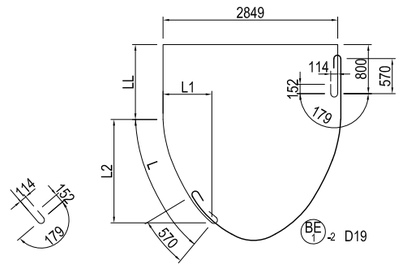
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D19	8	3032	5493	3694
2	"	8	2768	4965	3430
3	"	8	2574	4577	3236
4	"	8	2415	4259	3077
5	"	8	2074	3577	2736
6	"	8	1939	3308	2601
7	"	8	1801	3031	2463
AVE		56			3034



BD3 28 – D16 × 2270

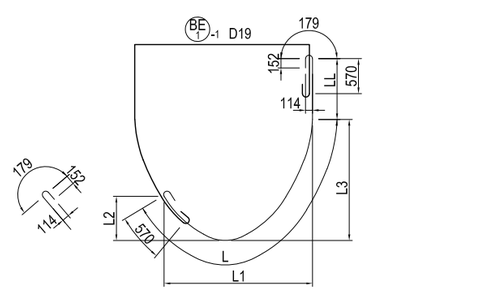


BD4 28 – D16 × 2190



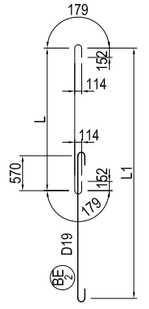
BE1-1 4 – D19 × 7470 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D19	2	1909	796	1685	1222	7442
2	"	2	2173	1039	1811	1020	7504
AVE		4					7473



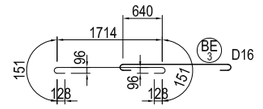
BE1-2 4 – D19 × 5270 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BE1-2 1	D19	2	3888	2421	719	1972	992	5542
2	"	2	3550	2254	457	1913	790	5002
AVE		4						5272

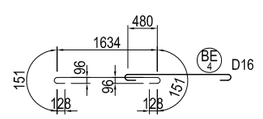


BE2 16 – D19 × 2270 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D19	8	1672	2773	2334
2	"	8	1551	2531	2213
AVE		16			2274



BE3 8 – D16 × 2270



BE4 8 – D16 × 2190

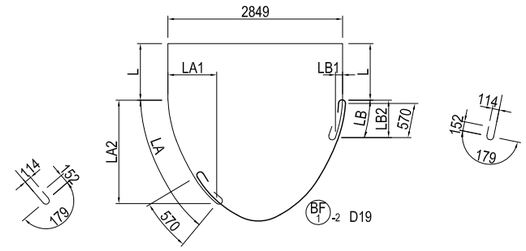
USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

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	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (11)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2113

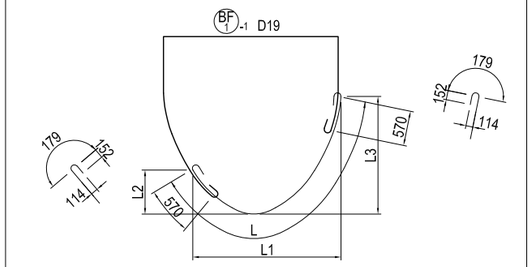
BAR ARRANGEMENT OF P7 PIER (12) S=1:100

BEAM



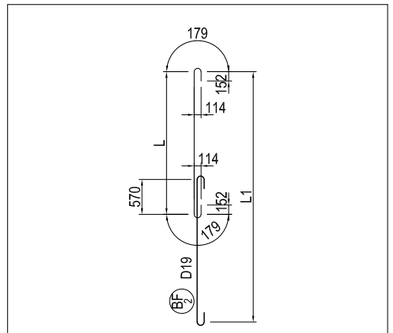
BF1-1 6 – D19 × 7800 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH L	TOTAL LENGTH ΣL
BF1-1 1	D19	2	1737	779	1502	624	140	605	922	7716
2	"	2	1902	997	1542	730	214	693	818	7779
3	"	2	2092	1304	1488	811	302	748	742	7898
AVE		6								7798



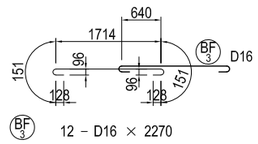
BF1-2 6 – D19 × 3840 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BF1-2 1	D19	2	3679	2449	682	1712	4341
2	"	2	3196	2271	452	1482	3858
3	"	2	2664	2006	235	1265	3326
AVE		6					3842

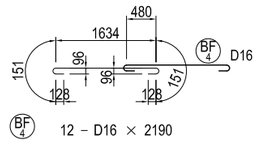


BF2 24 – D19 × 1990 （AVE）

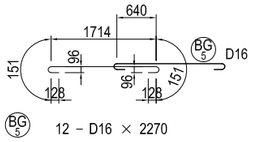
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF2 1	D19	8	1437	2303	2099
2	"	8	1329	2088	1991
3	"	8	1227	1884	1889
AVE		24			1993



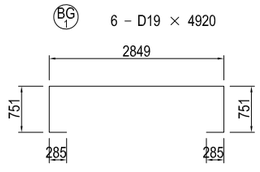
BF3 12 – D16 × 2270



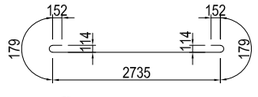
BF4 12 – D16 × 2190



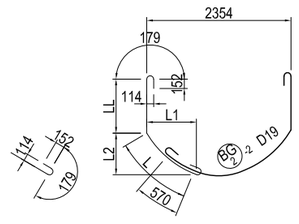
BG5 12 – D16 × 2270



BG1 6 – D19 × 4920

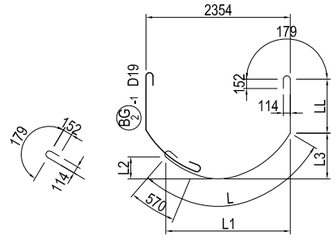


BG4 6 – D19 × 3400



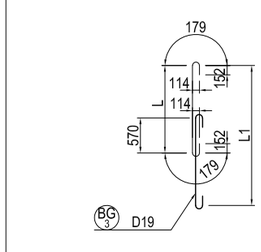
BG2-1 6 – D19 × 2610 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D19	2	638	403	490	1210	2510
2	"	2	1060	794	673	892	2614
3	"	2	1294	1021	723	750	2706
AVE		6					2610



BG2-2 6 – D19 × 4120 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D19	2	2924	2319	756	814	1210	4796
2	"	2	2414	2043	370	746	892	3968
3	"	2	2176	1859	214	733	750	3588
AVE		6						4117



BG3 24 – D19 × 1670 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D19	8	1153	1735	1815
2	"	8	970	1370	1632
3	"	8	896	1222	1558
AVE		24			1668

USE MATERIALS

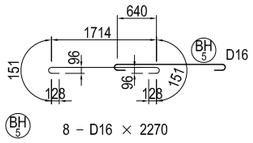
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (12)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2114

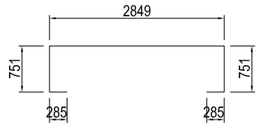
BAR ARRANGEMENT OF P7 PIER (13) S=1:100

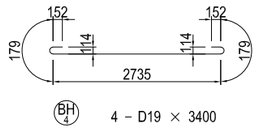
BEAM



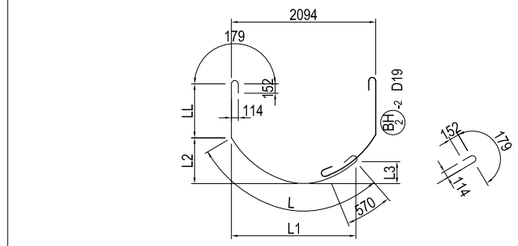
BH5 8 – D16 × 2270

BH1 4 – D19 × 4920



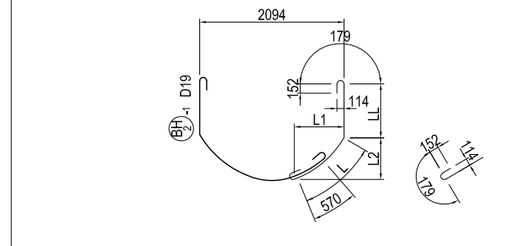


BH4 4 – D19 × 3400



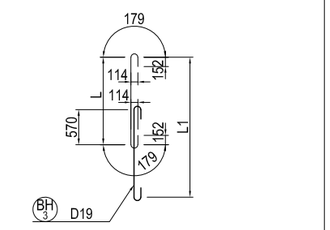
BH2-1 4 – D19 × 3560 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BH2-1 1	D19	2	2268	2000	518	414	815	3745
2	"	2	2073	1834	543	270	646	3381
AVE		4						3563



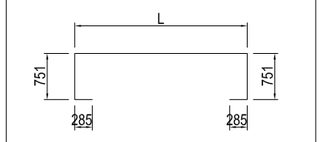
BH2-2 4 – D19 × 2220 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BH2-2 1	D19	2	710	568	413	815	2187
2	"	2	948	772	513	646	2256
AVE		4					2222



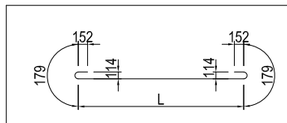
BH3 16 – D19 × 1450 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BH3 1	D19	8	825	1080	1487
2	"	8	757	943	1419
AVE		16			1453



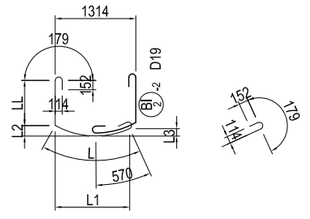
BI1 4 – D19 × 4810 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
BI 1 1	D19	2	2812	4884
2	"	2	2670	4742
AVE		4		4813



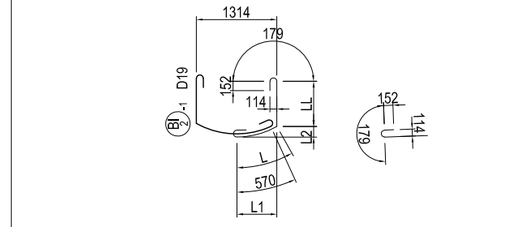
BI3 4 – D19 × 3290 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
BI 3 1	D19	2	2698	3360
2	"	2	2556	3218
AVE		4		3289



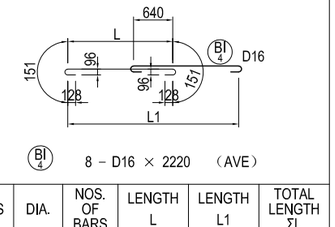
BI2-1 4 – D19 × 2740 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BI 2-1 1	D19	2	1270	1214	188	132	863	2795
2	"	2	1278	1230	171	128	745	2685
AVE		4						2740



BI2-2 4 – D19 × 2140 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BI 2-2 1	D19	2	685	650	188	863	2210
2	"	2	665	635	171	745	2072
AVE		4					2141



BI4 8 – D16 × 2220 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BI 4 1	D16	4	1696	2751	2254
2	"	4	1625	2609	2183
AVE		8			2219

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

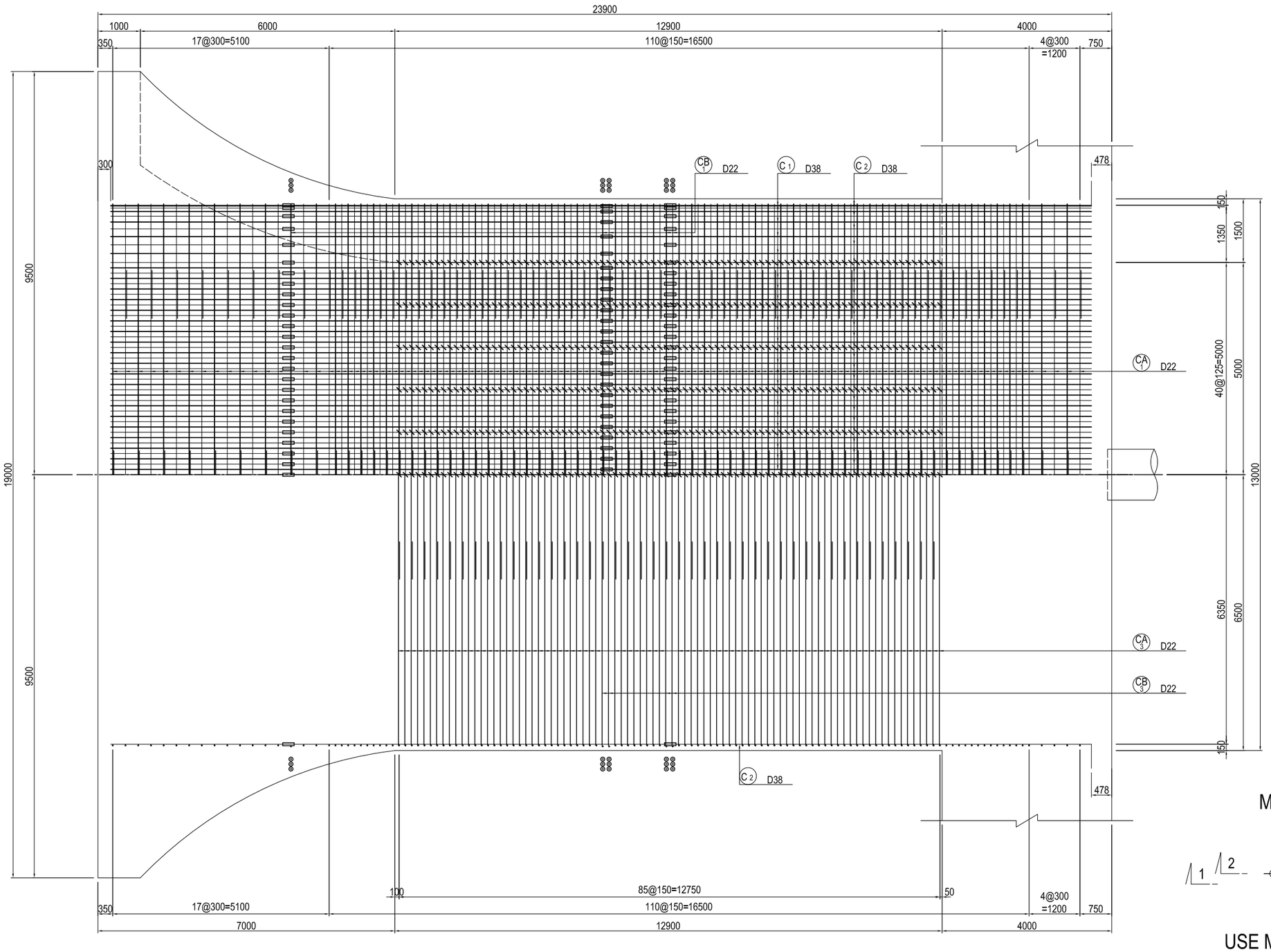
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (13)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2115

BAR ARRANGEMENT OF P7 PIER (14) S=1:100

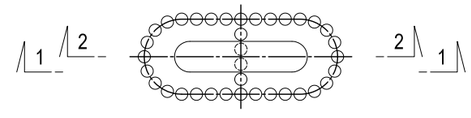
COLUMN

FRONT ELEVATION
1 - 1



SECTION
2 - 2

MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

Notes) 1. ∞∞ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

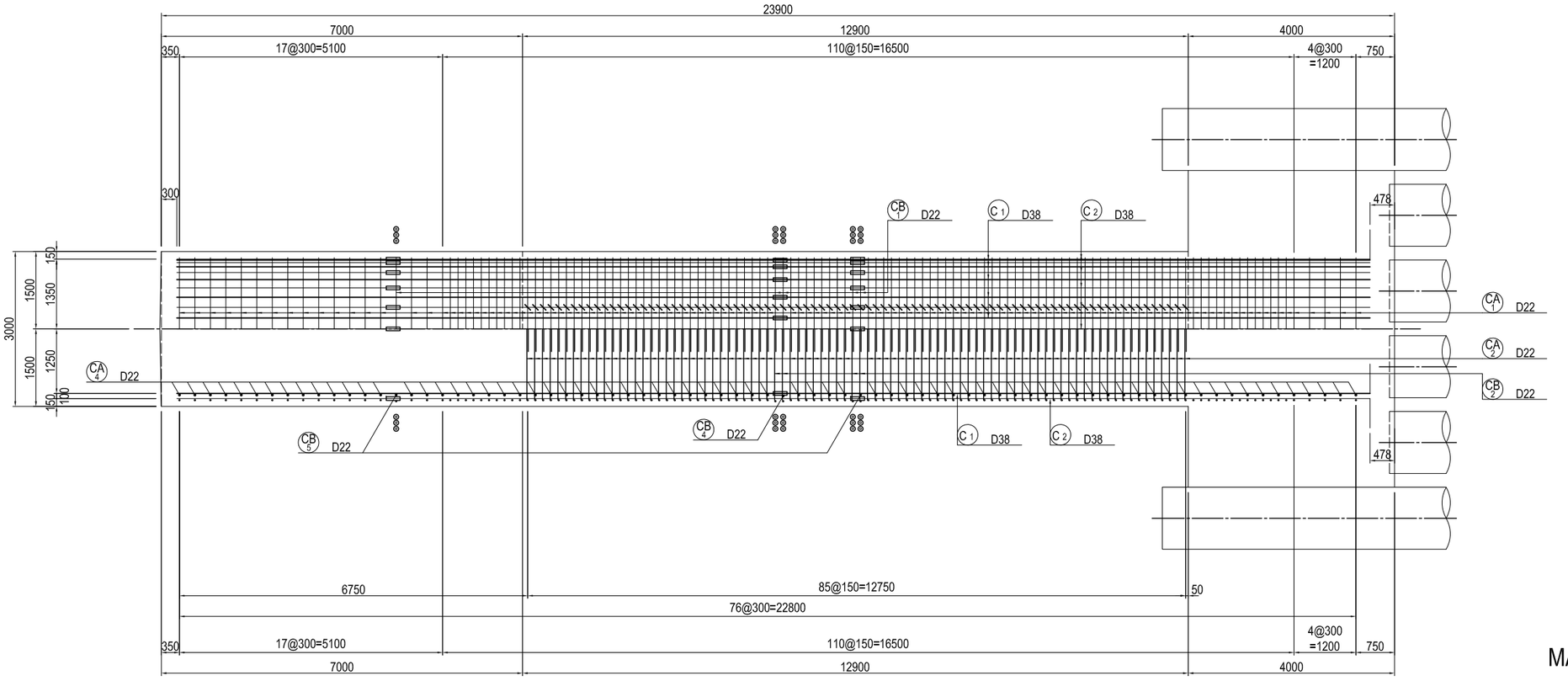
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

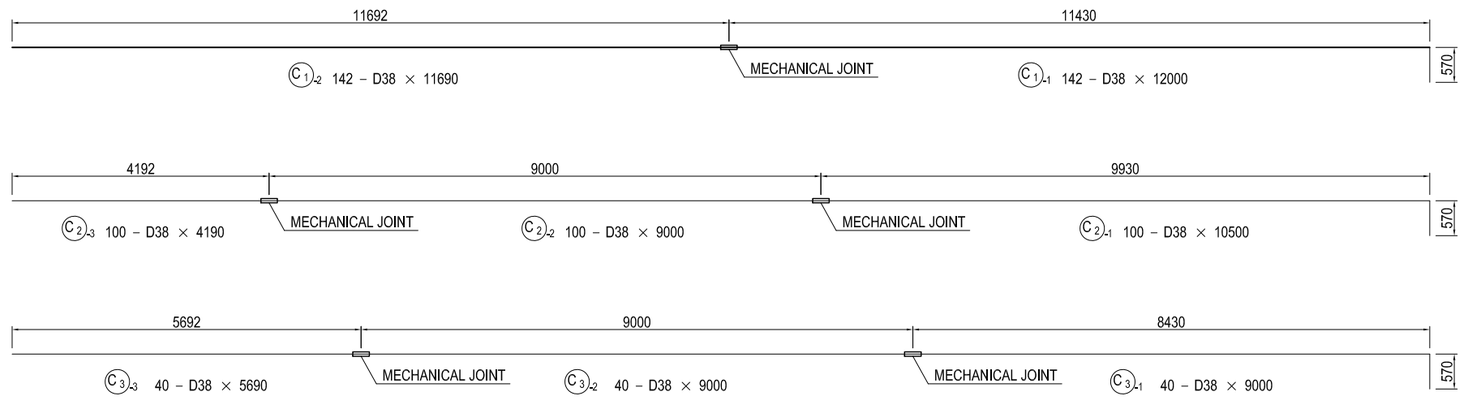
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P7 PIER (14)	1
	DWG No.
	P1-SB-2116

BAR ARRANGEMENT OF P7 PIER (15) S=1:100

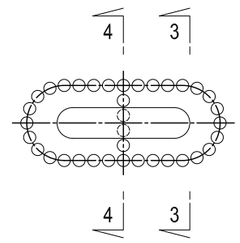
COLUMN

SECTION SIDE ELEVATION 3 - 3
4 - 4





MARKING DIAGRAM



Notes) 1. ⊙⊙⊙ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

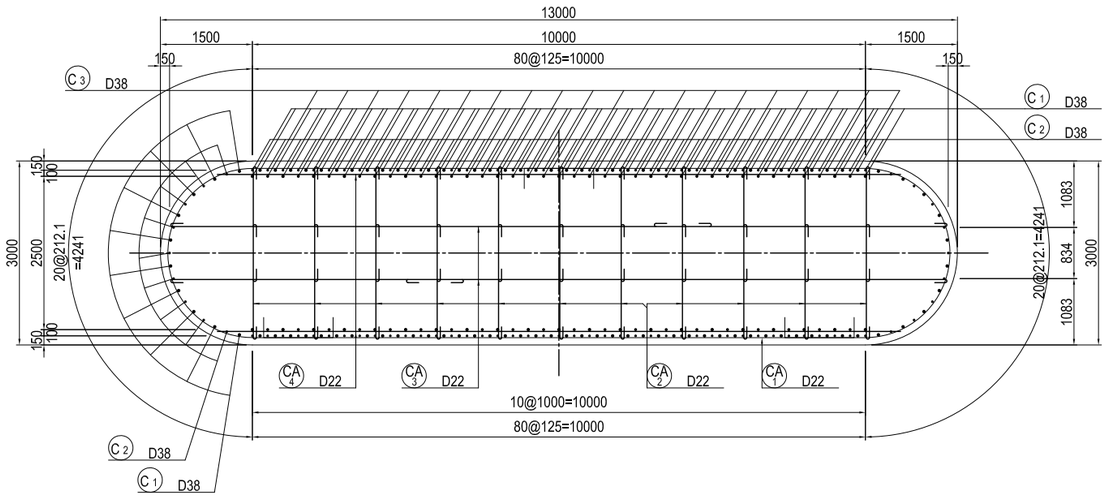
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (15)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2117

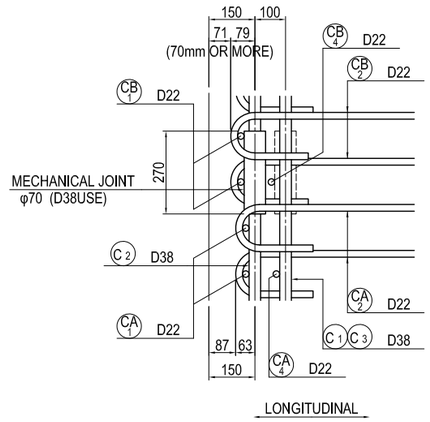
BAR ARRANGEMENT OF P7 PIER (16) S=1:100

COLUMN

PLAN
5 - 5



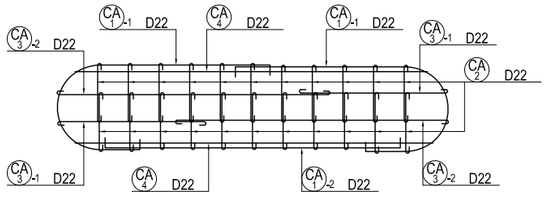
DETAIL OF COLUMN S=1:20



ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

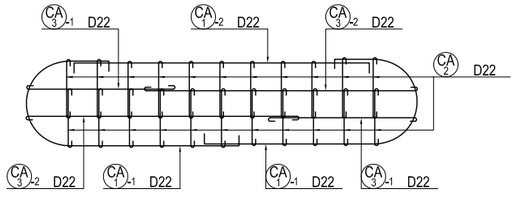
【STANDARD PART】

①



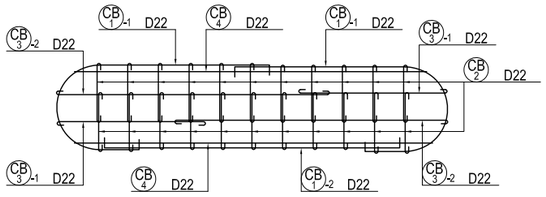
Note) CA4 : c.t.c. 300

②



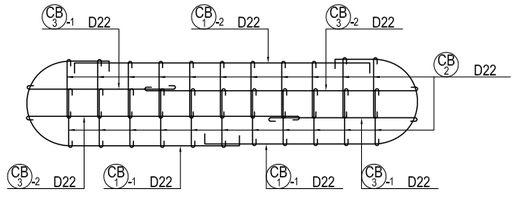
【MECHANICAL JOINT PART】

①

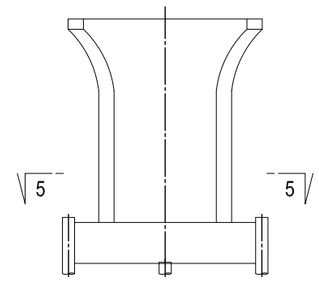


Note) CB4 : c.t.c. 300

②



MARKING DIAGRAM



USE MATERIALS

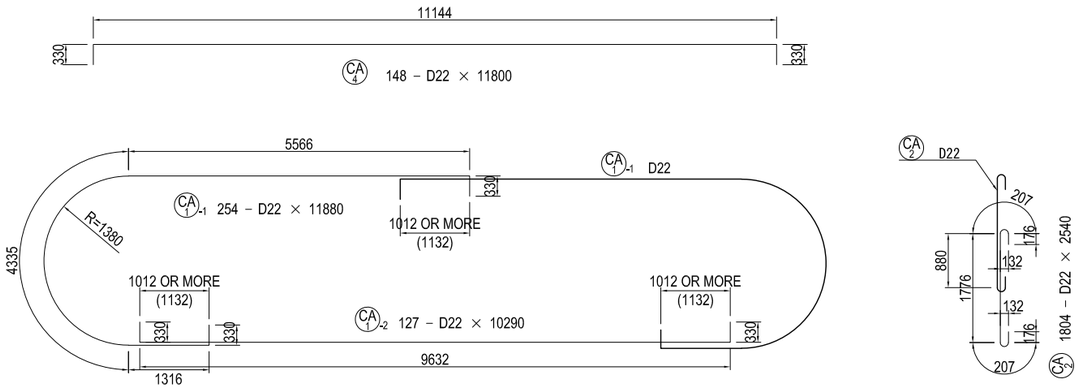
	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

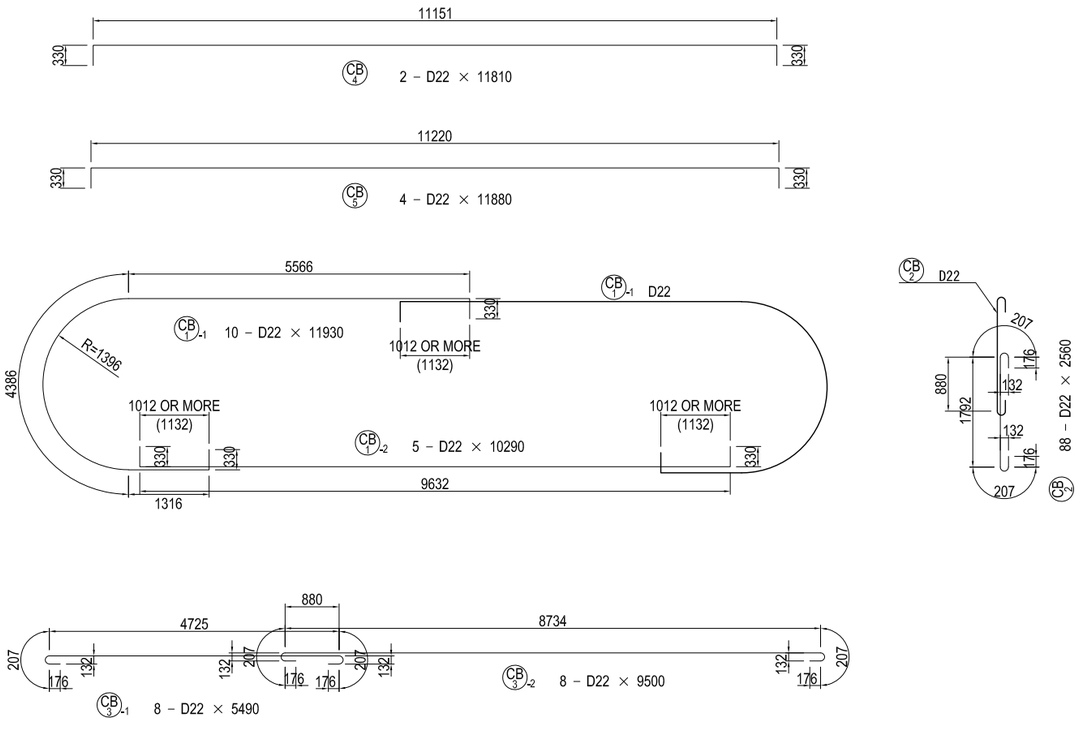
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (16)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2118

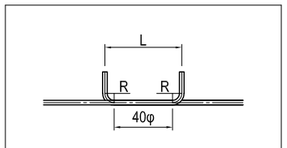
BAR ARRANGEMENT OF P7 PIER (17) S=1:100

COLUMN





LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm²	SD345

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	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF P7 PIER (17)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2119

BAR ARRANGEMENT OF P7 PIER (18) NOT TO SCALE

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D32	11500	13	6.23	71.65	931	
1-2	"	9500	13	"	59.19	769	
2-1	"	11500	4	"	71.65	287	
2-2	"	9470	4	"	59.00	236	(AVE)
3-1	"	12000	2	"	74.76	150	
3-2	"	8360	2	"	52.08	104	
4-1	"	11190	4	"	69.71	279	
4-2	"	9230	4	"	57.50	230	
5-1	"	5140	3	"	32.02	96	
5-2	"	10000	3	"	62.30	187	
5-3	"	6240	3	"	38.88	117	
6-1	"	8400	2	"	52.33	105	
6-2	"	12000	2	"	74.76	150	
7	"	9860	4	"	61.43	246	
8-1	"	11290	7	"	70.34	492	
8-2	"	9330	7	"	58.13	407	
9-1	"	11600	2	"	72.27	145	
9-2	"	9000	2	"	56.07	112	
10-1	"	8000	2	"	49.84	100	
10-2	"	12000	2	"	74.76	150	
11-1	"	11390	6	"	70.96	426	(AVE)
11-2	"	8000	6	"	49.84	299	
11-3	"	9030	6	"	56.26	338	(AVE)
12-1	"	11990	3	"	74.70	224	(AVE)
12-2	"	8000	3	"	49.84	150	
12-3	"	9630	3	"	59.99	180	(AVE)
13-1	"	8500	2	"	52.96	106	
13-2	"	6000	2	"	37.38	75	
13-3	"	12000	2	"	74.76	150	
14-1	D19	11500	6	2.25	25.88	155	
14-2	"	12000	6	"	27.00	162	
15-1	"	10300	18	"	23.18	417	(AVE)
15-2	"	10080	18	"	22.68	408	(AVE)
16-1	"	11450	11	"	25.76	283	(AVE)
16-2	"	11470	11	"	25.81	284	(AVE)
16-3	"	10780	11	"	24.26	267	(AVE)
					SUBTOTAL	9217	kg
BA 1-1	D19	11650	69	2.25	26.21	1808	
1-2	"	6500	69	"	14.63	1009	
2-1	"	6500	69	"	14.63	1009	
2-2	"	10060	69	"	22.64	1562	
3	"	3400	69	"	7.65	528	
4	D16	2270	138	1.56	3.54	489	
5	"	2190	138	"	3.42	472	
					SUBTOTAL	6877	kg
BB 1-1	D19	9660	10	2.25	21.74	217	
1-2	"	11820	10	"	26.60	266	(AVE)
2-1	"	10060	10	"	22.64	226	
2-2	"	6500	10	"	14.63	146	
3	D16	2270	20	1.56	3.54	71	
4	"	2190	20	"	3.42	68	
					SUBTOTAL	994	kg

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BC 1-1	D19	10310	8	2.25	23.20	186	(AVE)
1-2	"	10300	8	"	23.18	185	(AVE)
2-1	"	10060	6	"	22.64	136	
2-2	"	6500	6	"	14.63	88	
3	"	4040	8	"	9.09	73	
4	D16	2270	16	1.56	3.54	57	
5	"	2190	16	"	3.42	55	
					SUBTOTAL	780	kg
BD 1-1	D19	8260	14	2.25	18.59	260	(AVE)
1-2	"	7700	14	"	17.33	243	(AVE)
2	"	3030	56	"	6.82	382	(AVE)
3	D16	2270	28	1.56	3.54	99	
4	"	2190	28	"	3.42	96	
					SUBTOTAL	1080	kg
BE 1-1	D19	7470	4	2.25	16.81	67	(AVE)
1-2	"	5270	4	"	11.86	47	(AVE)
2	"	2270	16	"	5.11	82	(AVE)
3	D16	2270	8	1.56	3.54	28	
4	"	2190	8	"	3.42	27	
					SUBTOTAL	251	kg
BF 1-1	D19	7800	6	2.25	17.55	105	(AVE)
1-2	"	3840	6	"	8.64	52	(AVE)
2	"	1990	24	"	4.48	108	(AVE)
3	D16	2270	12	1.56	3.54	42	
4	"	2190	12	"	3.42	41	
					SUBTOTAL	348	kg
BG 1	D19	4920	6	2.25	11.07	66	
2-1	"	2610	6	"	5.87	35	(AVE)
2-2	"	4120	6	"	9.27	56	(AVE)
3	"	1670	24	"	3.76	90	(AVE)
4	"	3400	6	"	7.65	46	
5	D16	2270	12	1.56	3.54	42	
					SUBTOTAL	335	kg
BH 1	D19	4920	4	2.25	11.07	44	
2-1	"	3560	4	"	8.01	32	(AVE)
2-2	"	2220	4	"	5.00	20	(AVE)
3	"	1450	16	"	3.26	52	(AVE)
4	"	3400	4	"	7.65	31	
5	D16	2270	8	1.56	3.54	28	
					SUBTOTAL	207	kg
BI 1	D19	4810	4	2.25	10.82	43	(AVE)
2-1	"	2740	4	"	6.17	25	(AVE)
2-2	"	2140	4	"	4.82	19	(AVE)
3	"	3290	4	"	7.40	30	(AVE)
4	D16	2220	8	1.56	3.46	28	(AVE)
					SUBTOTAL	145	kg

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
HA 1	D16	2360	32	1.56	3.68	118	
2	"	2860	22	"	4.46	98	
3	"	7210	2	"	11.25	23	
					SUBTOTAL	239	kg
HB 1	D16	2590	38	1.56	4.04	154	
2	"	3140	26	"	4.90	127	
3	"	7830	2	"	12.21	25	
					SUBTOTAL	306	kg
C 1-1	D38	12000	142	8.95	107.40	15251	(142)
1-2	"	11690	142	"	104.63	14857	
2-1	"	10500	100	"	93.98	9398	(100)
2-2	"	9000	100	"	80.55	8055	(100)
2-3	"	4190	100	"	37.50	3750	
3-1	"	9000	40	"	80.55	3222	(40)
3-2	"	9000	40	"	80.55	3222	(40)
3-3	"	5690	40	"	50.93	2037	
					SUBTOTAL	59792	kg
CA 1-1	D22	11880	254	3.04	36.12	9174	
1-2	"	10290	127	"	31.28	3973	
2	"	2540	1804	"	7.72	13927	
3-1	"	5460	164	"	16.60	2722	
3-2	"	9500	164	"	28.88	4736	
4	"	11800	148	"	35.87	5309	
					SUBTOTAL	39841	kg
CB 1-1	D22	11930	10	3.04	36.27	363	
1-2	"	10290	5	"	31.28	156	
2	"	2560	88	"	7.78	685	
3-1	"	5490	8	"	16.69	134	
3-2	"	9500	8	"	28.88	231	
4	"	11810	2	"	35.90	72	
5	"	11880	4	"	36.12	144	
					SUBTOTAL	1785	kg

			(MECHANICAL JOINT)
	D38	59792 kg	(422)
	D32	7241 "	
	D22	41626 "	
	D19	11350 "	
	D16	2188 "	
	TOTAL	122197 kg	(422)

USE MATERIALS

	CONCRETE	BAR
BEAM・COLUMN	σck = 30 N/mm 2	SD345

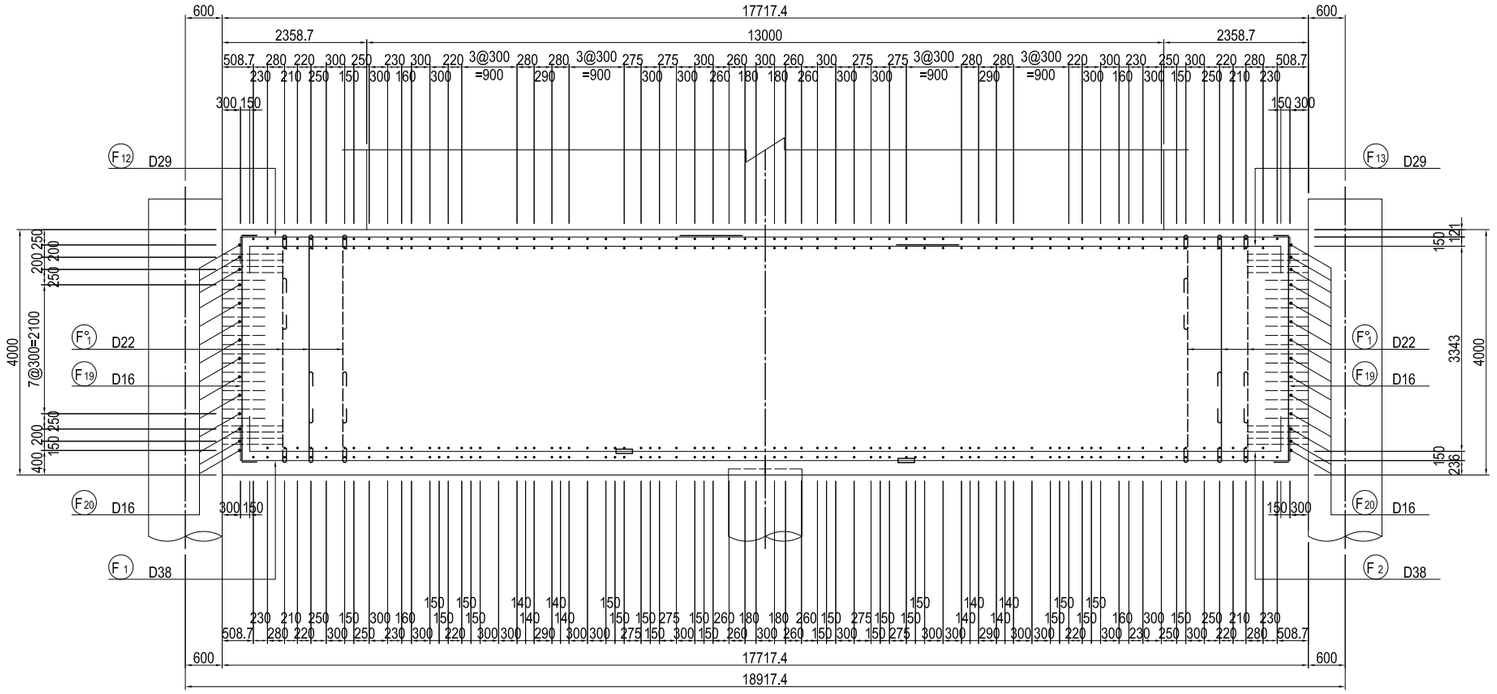
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

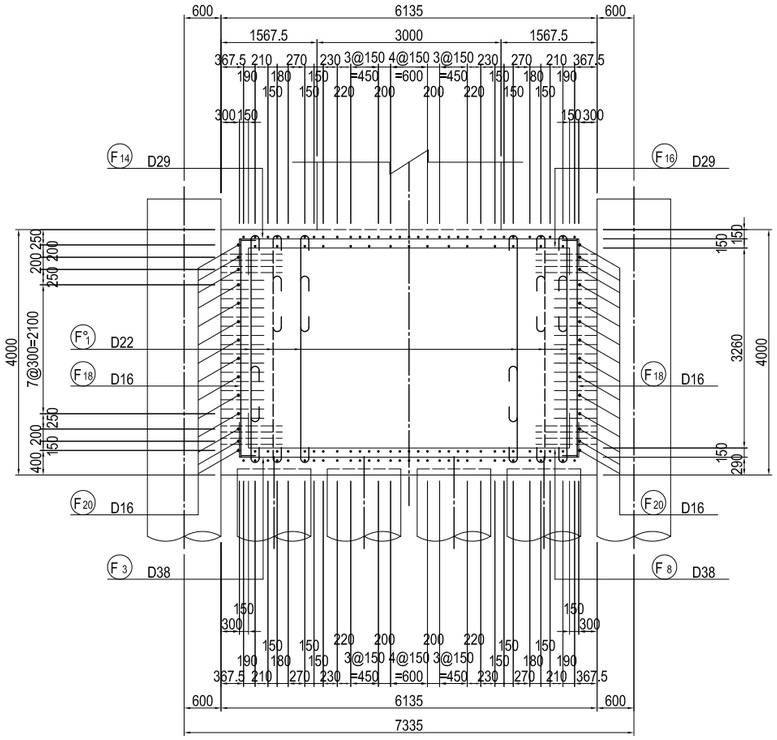
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P7 PIER (18)	1
	DWG No.
	P1-SB-2120

BAR ARRANGEMENT OF FOOTING FOR P7 PIER (1) S=1:100

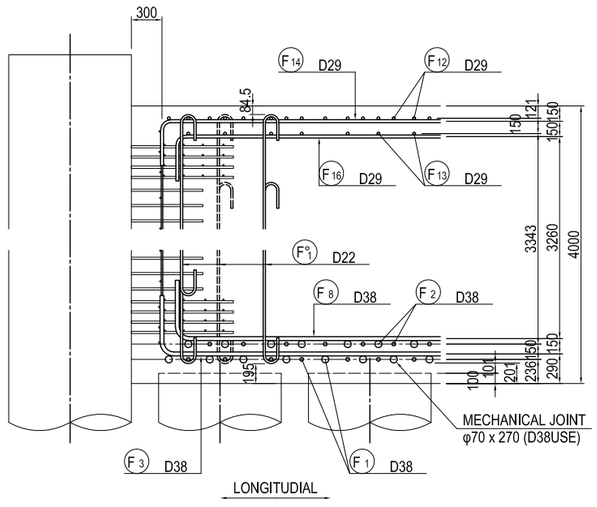
SECTION 1 - 1



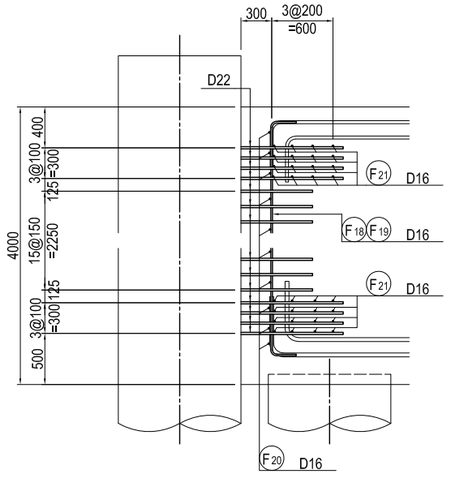
SECTION 2 - 2



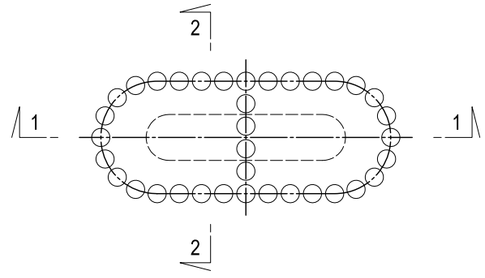
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

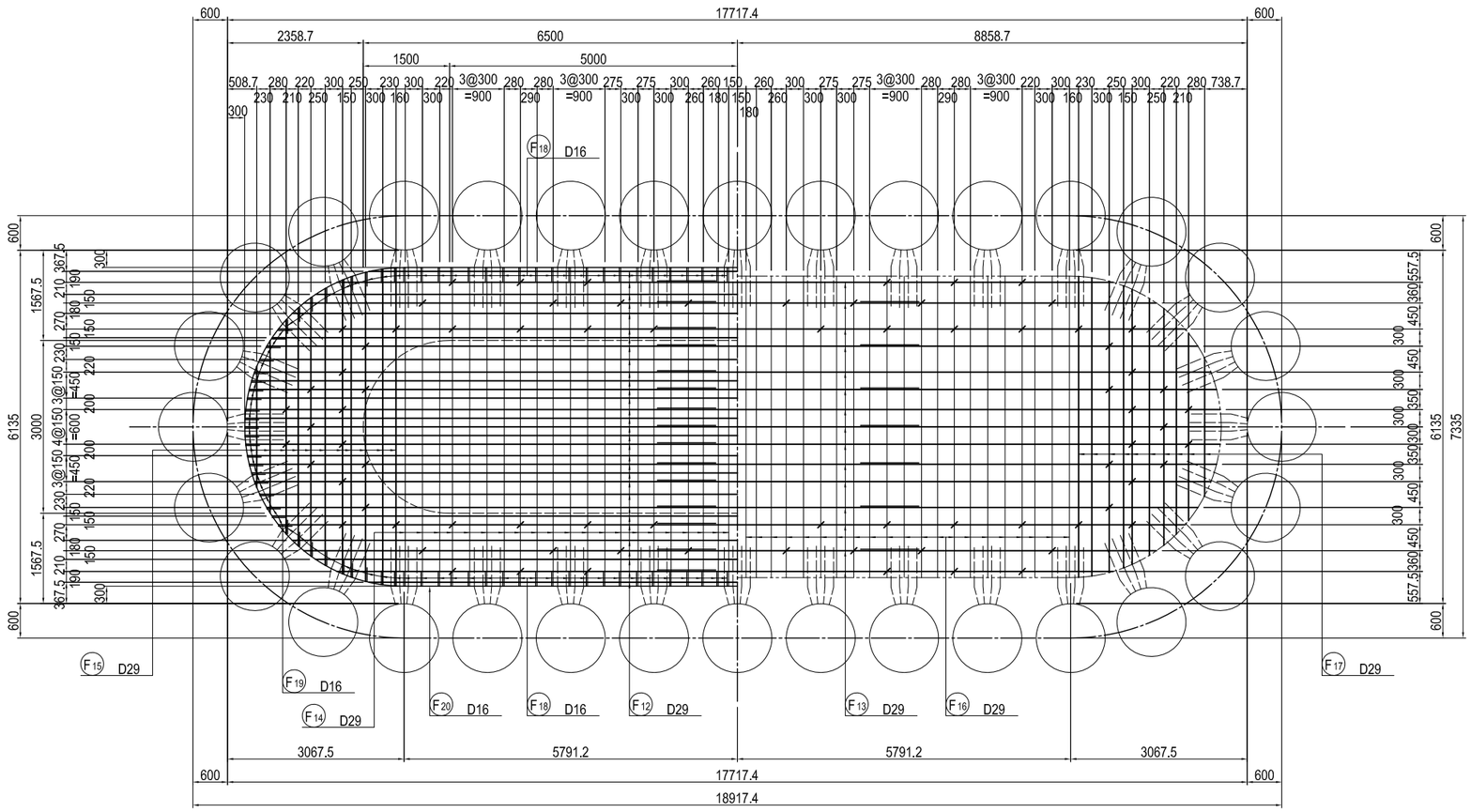
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P7 PIER (1)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2121

BAR ARRANGEMENT OF FOOTING FOR P7 PIER (2) S=1:100

PLAN
3 - 3

PLAN
4 - 4



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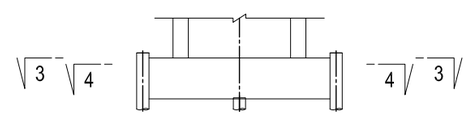


USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

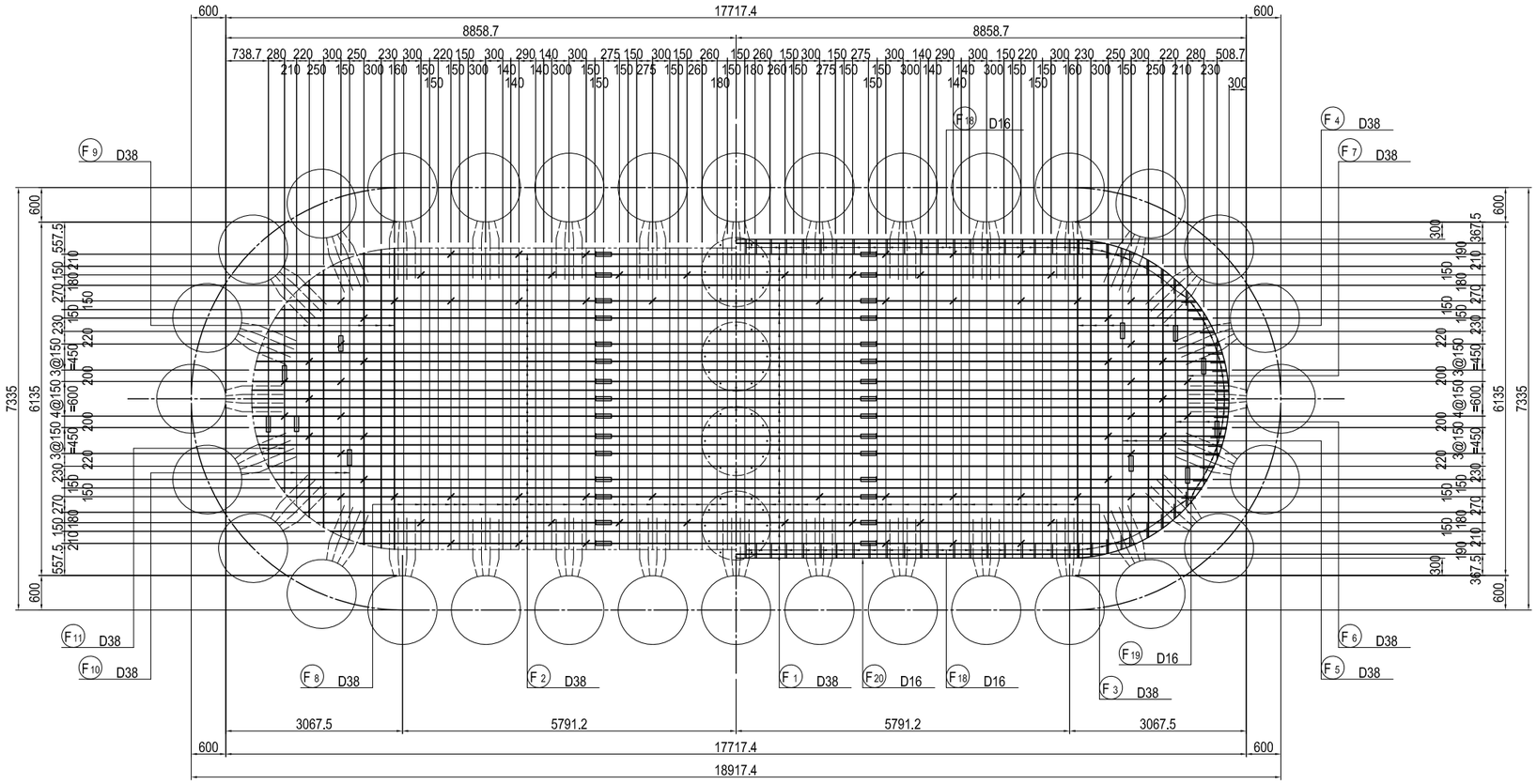
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF FOOTING FOR P7 PIER (2)	1
	DWG No.
	P1-SB-2122

BAR ARRANGEMENT OF FOOTING FOR P7 PIER (3) S=1:100

PLAN
5 - 5

PLAN
6 - 6



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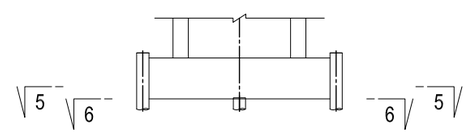


USE MATERIALS

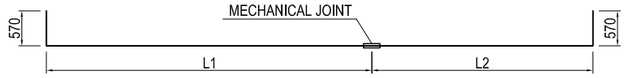
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

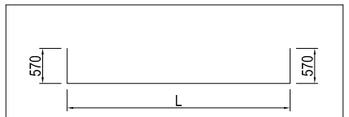
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF FOOTING FOR P7 PIER (3)	1
	DWG No.
	P1-SB-2123

BAR ARRANGEMENT OF FOOTING FOR P7 PIER (4) S=1:100



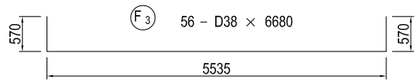
F1-1 31 – D38 × 10850 （AVE） F1-2 31 – D38 × 6250 （AVE）

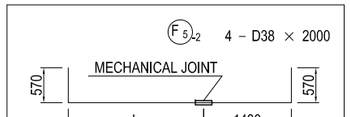
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1 -1 1	D38	1	10859	11429	F1 -2 1	D38	1	6259	6829
2	"	2	10855	11425	2	"	2	6255	6825
3	"	2	10842	11412	3	"	2	6242	6812
4	"	2	10813	11383	4	"	2	6213	6783
5	"	2	10781	11351	5	"	2	6181	6751
6	"	2	10741	11311	6	"	2	6141	6711
7	"	2	10691	11261	7	"	2	6091	6661
8	"	2	10599	11169	8	"	2	5999	6569
9	"	2	10478	11048	9	"	2	5878	6448
10	"	2	10384	10954	10	"	2	5784	6354
11	"	2	10275	10845	11	"	2	5675	6245
12	"	2	10035	10605	12	"	2	5435	6005
13	"	2	9834	10404	13	"	2	5234	5804
14	"	2	9630	10200	14	"	2	5030	5600
15	"	2	9257	9827	15	"	2	4657	5227
16	"	2	8699	9269	16	"	2	4099	4669
AVE		31		10850	AVE		31		6250



F4 10 – D38 × 6280 （AVE）

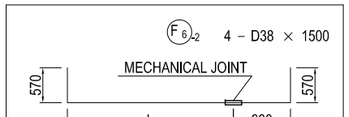
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F4 1	D38	2	5528	6668
2	"	2	5486	6626
3	"	2	5371	6511
4	"	2	4811	5951
5	"	2	4489	5629
AVE		10		6277





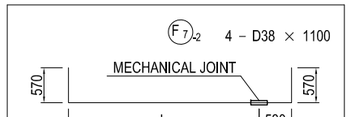
F5-1 4 – D38 × 4300 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5 -1 1	D38	2	3791	4361
2	"	2	3676	4246
AVE		4		4304



F6-1 4 – D38 × 3200 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F6 -1 1	D38	2	3207	3777
2	"	2	2060	2630
AVE		4		3204

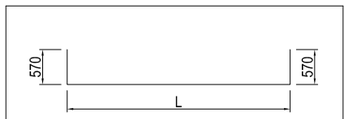


F7-1 4 – D38 × 2960 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F7 -1 1	D38	2	3191	3761
2	"	2	1579	2149
AVE		4		2955

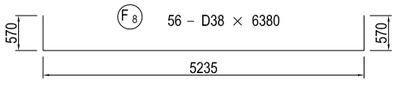
F2-1 29 – D38 × 10760 （AVE） F2-2 29 – D38 × 6160 （AVE）

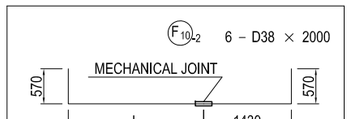
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1 1	D38	1	10709	11279	F2 -2 1	D38	1	6109	6679
2	"	2	10704	11274	2	"	2	6104	6674
3	"	2	10691	11261	3	"	2	6091	6661
4	"	2	10661	11231	4	"	2	6061	6631
5	"	2	10627	11197	5	"	2	6027	6597
6	"	2	10583	11153	6	"	2	5983	6553
7	"	2	10530	11100	7	"	2	5930	6500
8	"	2	10433	11003	8	"	2	5833	6403
9	"	2	10303	10873	9	"	2	5703	6273
10	"	2	10200	10770	10	"	2	5600	6170
11	"	2	10082	10652	11	"	2	5482	6052
12	"	2	9815	10385	12	"	2	5215	5785
13	"	2	9584	10154	13	"	2	4984	5554
14	"	2	9341	9911	14	"	2	4741	5311
15	"	2	8834	9404	15	"	2	4234	4804
AVE		29		10759	AVE		29		6159



F9 10 – D38 × 5950 （AVE）

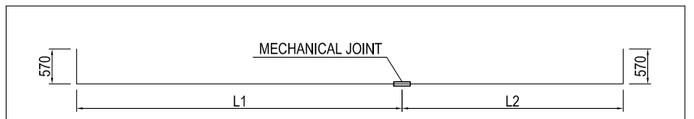
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F9 1	D38	2	5228	6368
2	"	2	5183	6323
3	"	2	5061	6201
4	"	2	4462	5602
5	"	2	4114	5254
AVE		10		5950





F10L-1 6 – D38 × 3610 （AVE）

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F10 -1 1	D38	2	3472	4042
2	"	2	3349	3919
3	"	2	2296	2866
AVE		6		3609



F11-1 4 – D38 × 2420 （AVE） F11-2 4 – D38 × 1540 （AVE）

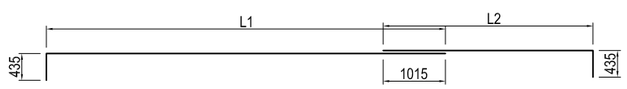
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F11 -1 1	D38	2	2069	2639	F11 -2 1	D38	2	1189	1759
2	"	2	1635	2205	2	"	2	755	1325
AVE		4		2422	AVE		4		1542

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

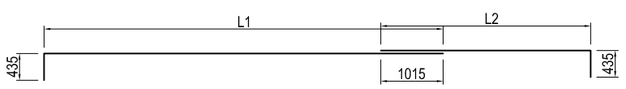
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P7 PIER (4)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2124

BAR ARRANGEMENT OF FOOTING FOR P7 PIER (5) S=1:100



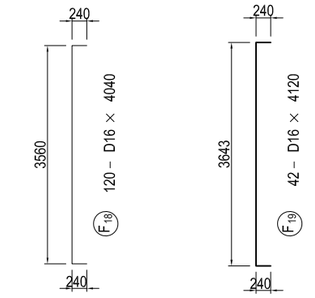
F_{12}-1 31 – D29 × 9810 （AVE） F_{12}-2 31 – D29 × 8040 （AVE）

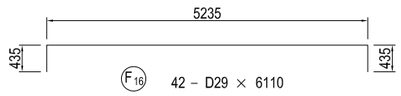
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F12 -1 1	D29	1	9949	10384	F12 -2 1	D29	1	8184	8619
2	"	2	9945	10380	2	"	2	8180	8615
3	"	2	9932	10367	3	"	2	8167	8602
4	"	2	9903	10338	4	"	2	8138	8573
5	"	2	9871	10306	5	"	2	8106	8541
6	"	2	9831	10266	6	"	2	8066	8501
7	"	2	9781	10216	7	"	2	8016	8451
8	"	2	9689	10124	8	"	2	7924	8359
9	"	2	9568	10003	9	"	2	7803	8238
10	"	2	9474	9909	10	"	2	7709	8144
11	"	2	9365	9800	11	"	2	7600	8035
12	"	2	9125	9560	12	"	2	7360	7795
13	"	2	8924	9359	13	"	2	7159	7594
14	"	2	8720	9155	14	"	2	6955	7390
15	"	2	8347	8782	15	"	2	6582	7017
16	"	2	7789	8224	16	"	2	6024	6459
AVE		31		9805	AVE		31		8040

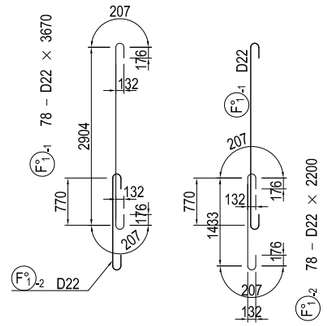


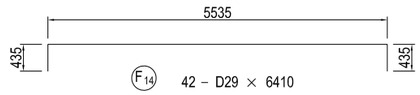
F_{13}-1 15 – D29 × 11420 （AVE） F_{13}-2 15 – D29 × 6130 （AVE）

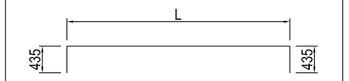
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F13 -1 1	D29	1	11564	11999	F13 -2 1	D29	1	6269	6704
2	"	2	11546	11981	2	"	2	6251	6686
3	"	2	11482	11917	3	"	2	6187	6622
4	"	2	11385	11820	4	"	2	6090	6525
5	"	2	11158	11593	5	"	2	5863	6298
6	"	2	10937	11372	6	"	2	5642	6077
7	"	2	10439	10874	7	"	2	5144	5579
8	"	2	9689	10124	8	"	2	4394	4829
AVE		15		11424	AVE		15		6129



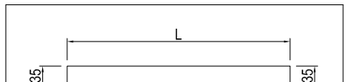








MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F17 1	D29	2	5228	6098
2	"	2	5183	6053
3	"	2	5061	5931
4	"	2	4902	5772
5	"	2	4779	5649
6	"	2	4462	5332
7	"	2	4114	4984
8	"	2	3726	4596
9	"	2	3258	4128
10	"	2	2390	3260
AVE		20		5180



MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F15 1	D29	2	5528	6398
2	"	2	5486	6356
3	"	2	5371	6241
4	"	2	5221	6091
5	"	2	5106	5976
6	"	2	4811	5681
7	"	2	4489	5359
8	"	2	4137	5007
9	"	2	3721	4591
10	"	2	2990	3860
11	"	2	2109	2979
AVE		22		5322

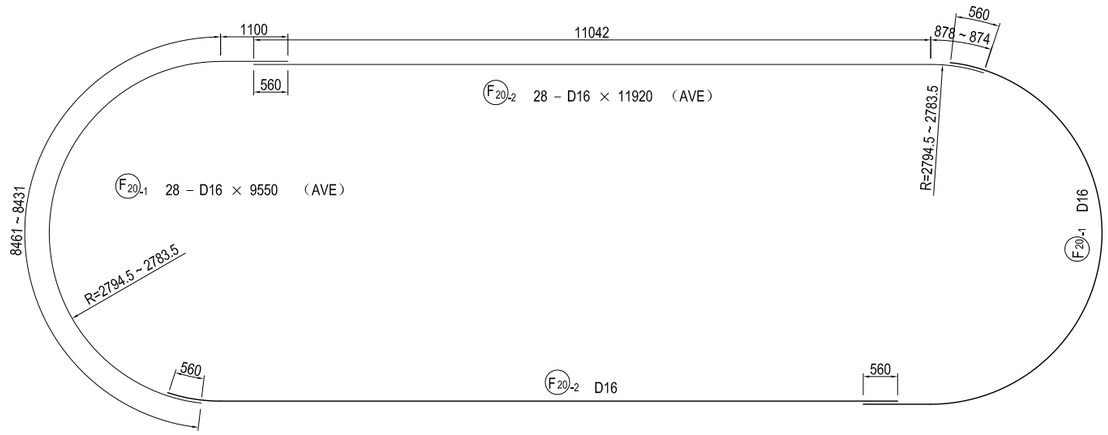
USE MATERIALS

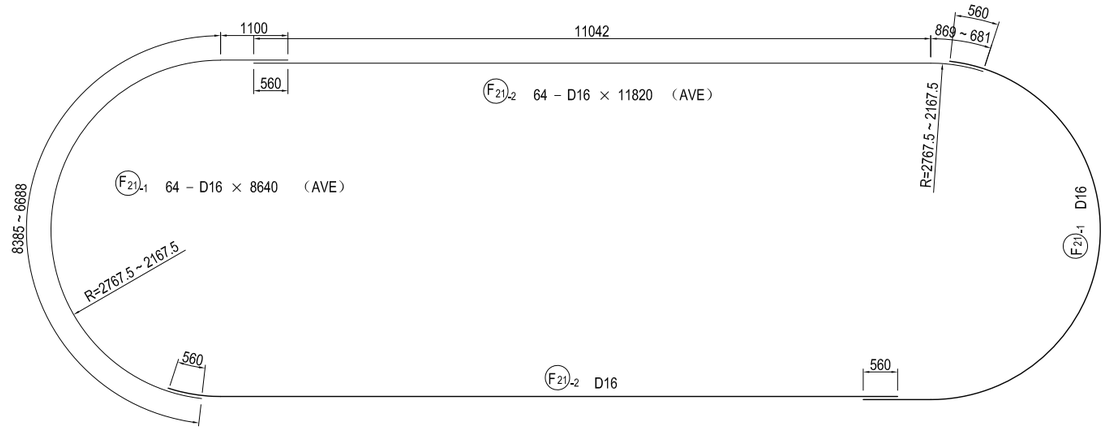
	CONCRETE	BAR
FOOTING	σck = 24 N/mm^2	SD345

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	S. IMADA		27 Nov.2017	BAR ARRANGEMENT OF FOOTING FOR P7 PIER (5)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2125

BAR ARRANGEMENT OF FOOTING FOR P7 PIER (6) S=1:100





BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D38	10850	31	8.95	97.11	3010	(31) (AVE)
1-2	"	6250	31	"	55.94	1734	(AVE)
2-1	"	10760	29	"	96.30	2793	(29) (AVE)
2-2	"	6160	29	"	55.13	1599	(AVE)
3	"	6680	56	"	59.79	3348	
4	"	6280	10	"	56.21	562	" (AVE)
5-1	"	4300	4	"	38.49	154	(4) (AVE)
5-2	"	2000	4	"	17.90	72	
6-1	"	3200	4	"	28.64	115	(4) (AVE)
6-2	"	1500	4	"	13.43	54	
7-1	"	2960	4	"	26.49	106	(4) (AVE)
7-2	"	1100	4	"	9.85	39	
8	"	6380	56	"	57.10	3198	
9	"	5950	10	"	53.25	533	" (AVE)
10-1	"	3610	6	"	32.31	194	(6) (AVE)
10-2	"	2000	6	"	17.90	107	
11-1	"	2420	4	"	21.66	87	(4) (AVE)
11-2	"	1540	4	"	13.78	55	(AVE)
12-1	D29	9810	31	5.04	49.44	1533	(AVE)
12-2	"	8040	31	"	40.52	1256	(AVE)
13-1	"	11420	15	"	57.56	863	(AVE)
13-2	"	6130	15	"	30.90	464	(AVE)
14	"	6410	42	"	32.31	1357	
15	"	5320	22	"	26.81	590	" (AVE)
16	"	6110	42	"	30.79	1293	"
17	"	5180	20	"	26.11	522	" (AVE)
18	D16	4040	120	1.56	6.30	756	
19	"	4120	42	"	6.43	270	"
20-1	"	9550	28	"	14.90	417	(AVE)
20-2	"	11920	28	"	18.60	521	(AVE)
21-1	"	8640	64	"	13.48	863	(AVE)
21-2	"	11820	64	"	18.44	1180	(AVE)
					SUBTOTAL	29645 kg	
F° 1-1	D22	3670	78	3.04	11.16	870	
1-2	"	2200	78	"	6.69	522	"
					SUBTOTAL	1392 kg	
							(MECHANICAL JOINT)
				D38	17760 kg		(82)
				D29	7878 "		
				D22	1392 "		
				D16	4007 "		
				TOTAL	31037 kg		(82)

Note） The joint position of the reinforcing bars is reversed for each step.

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
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.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

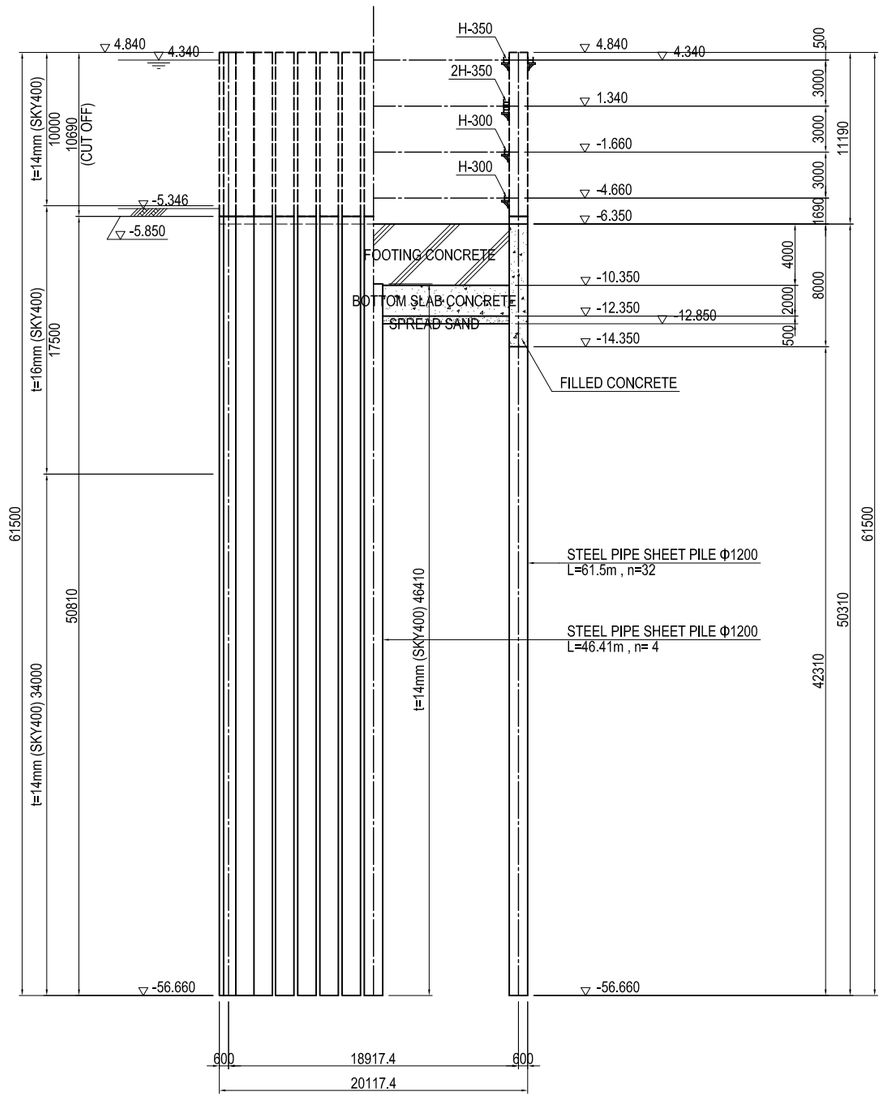
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF FOOTING FOR P7 PIER (6)	1
	DWG No.
	P1-SB-2126

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P7 PIER

S=1:400

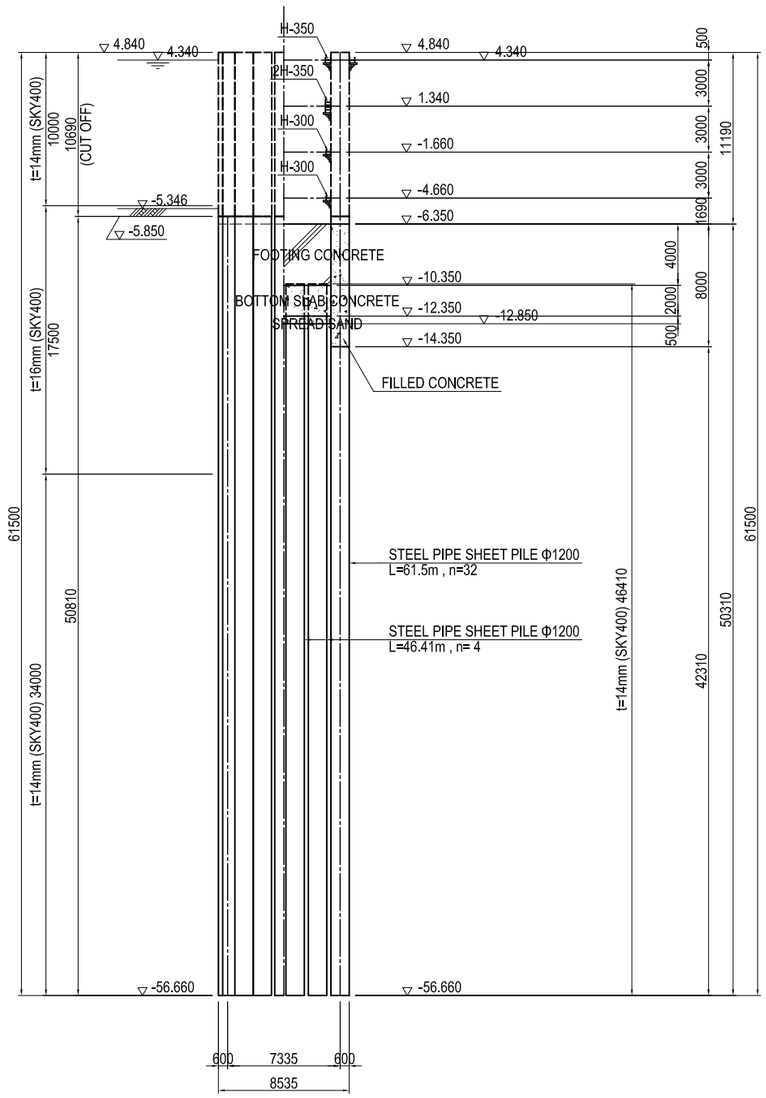
FRONT ELEVATION

1 - 1　　2 - 2

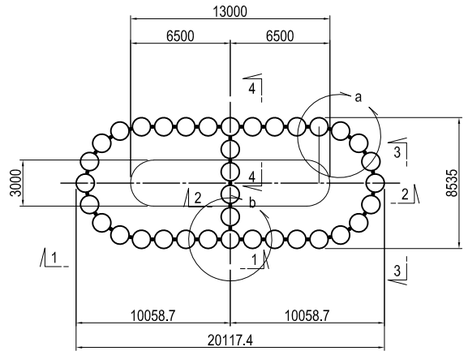


SIDE ELEVATION

3 - 3　　4 - 4

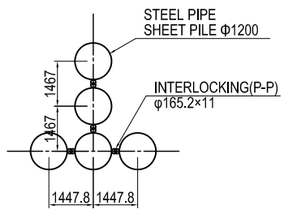


PLAN



DETAIL a　S=1:200

DETAIL b　S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

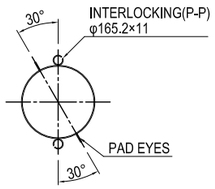
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P7 PIER	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2127

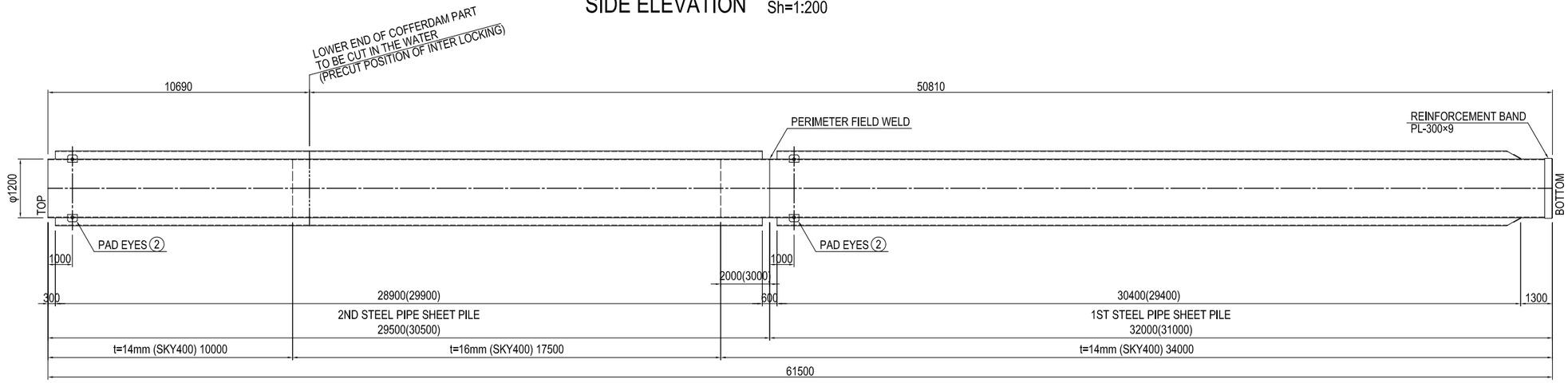
DETAIL OF STEEL PIPE SHEET PILE OF P7 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)



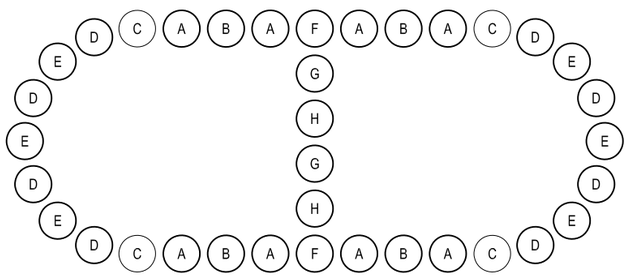
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

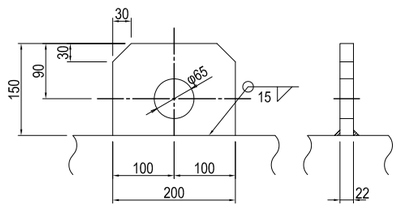
TYPE C

STEEL PIPE SHEET PILE TYPE AND POSITION

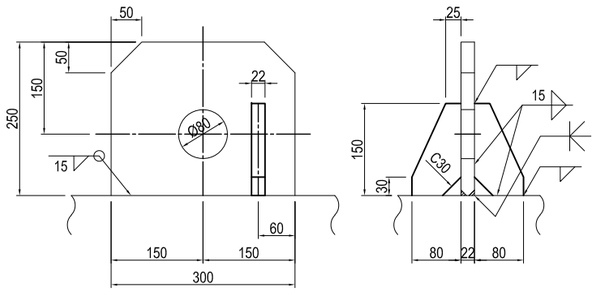


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

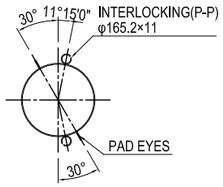
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	DETAIL OF STEEL PIPE SHEET PILE OF P7 PIER (1)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2128

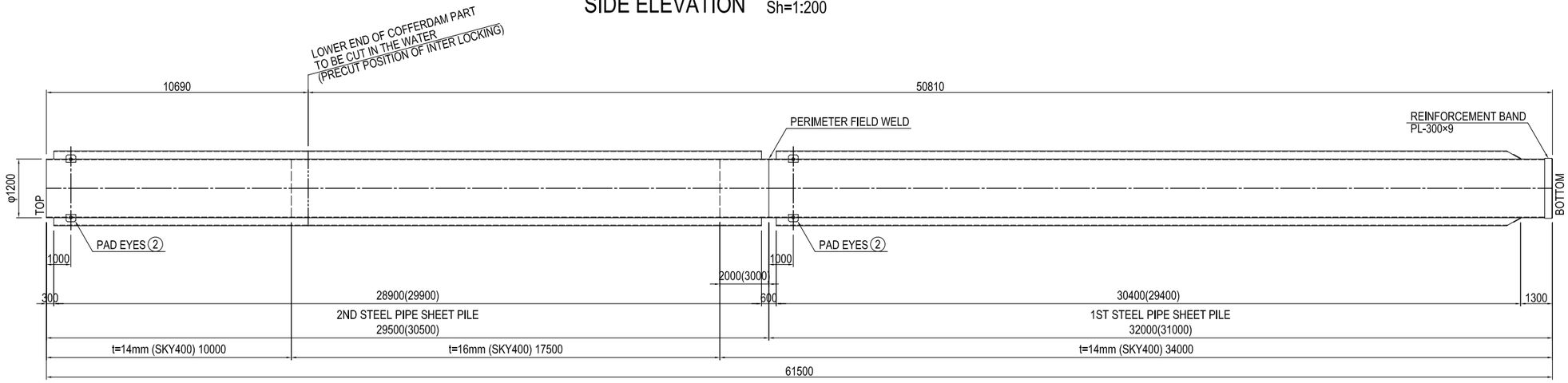
DETAIL OF STEEL PIPE SHEET PILE OF P7 PIER (2)

CROSS SECTION S=1:200

TYPE D
(TYPE E)

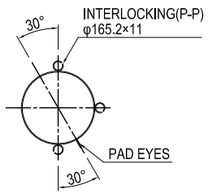


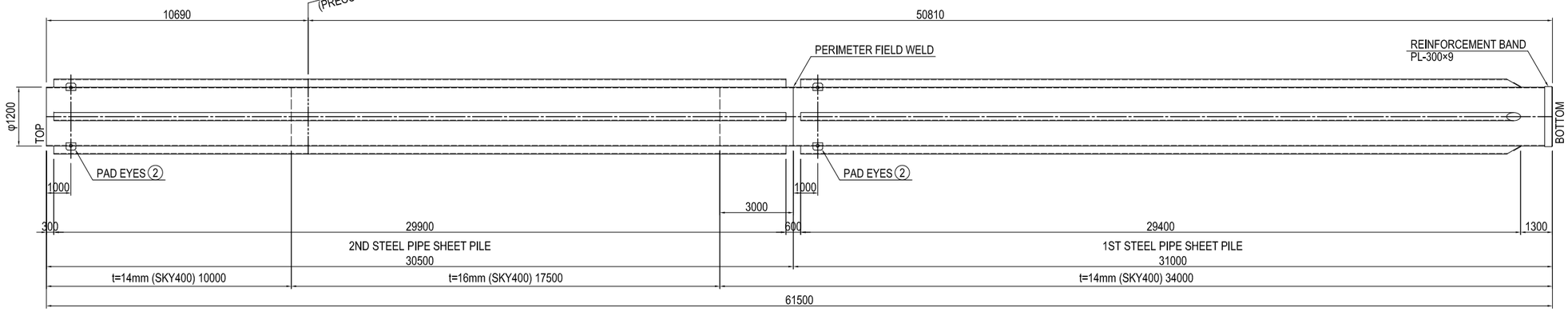
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

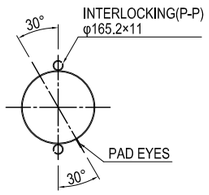
TYPE F

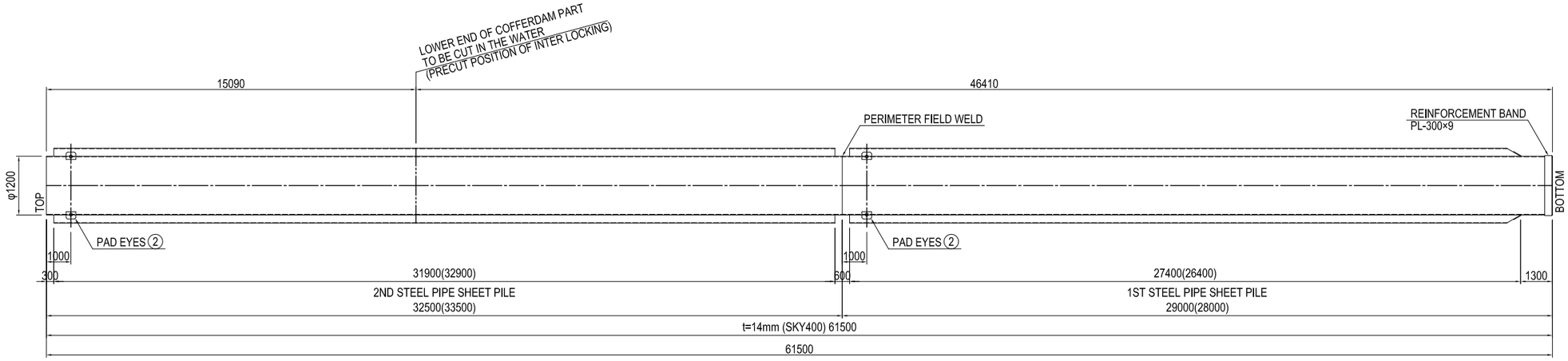




CROSS SECTION S=1:200

TYPE G
（TYPE H）





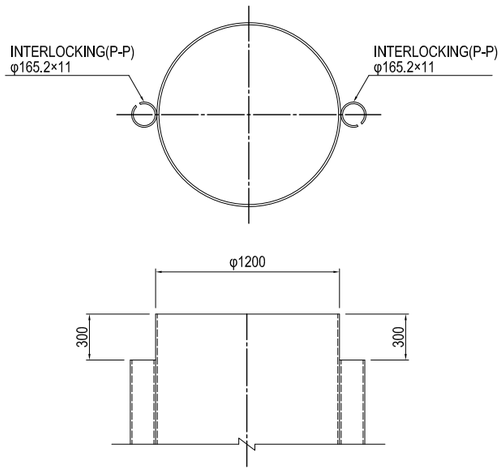
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

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.		

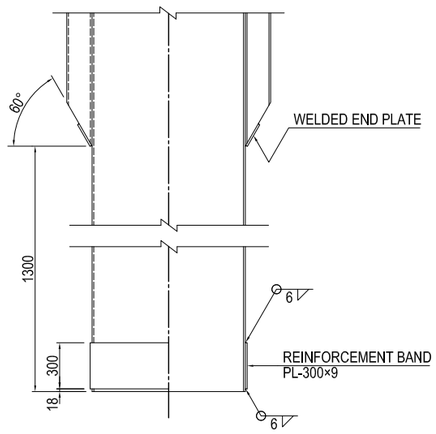
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	DETAIL OF STEEL PIPE SHEET PILE OF P7 PIER (2)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2129

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P7 PIER

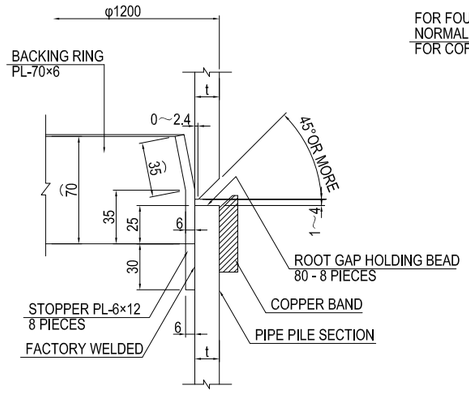
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



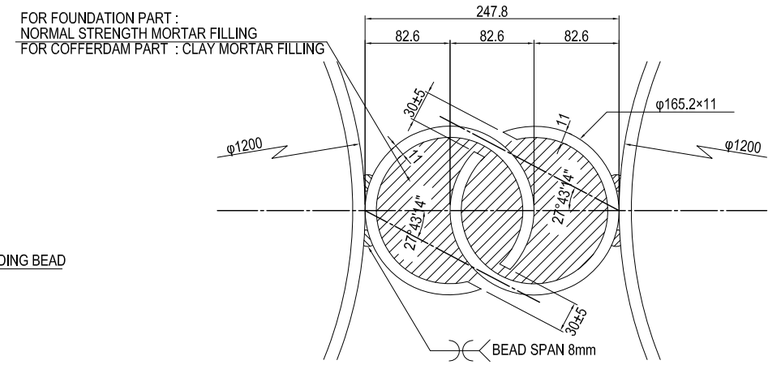
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



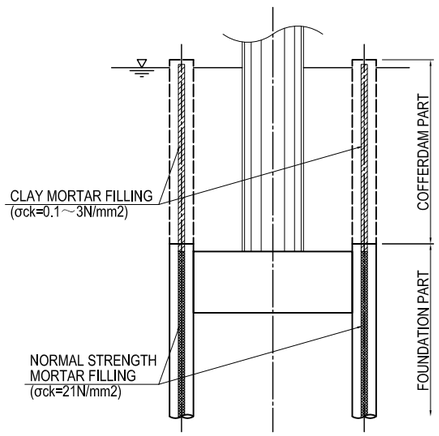
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



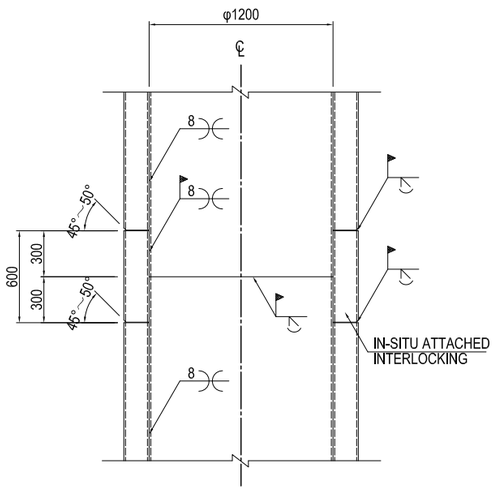
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



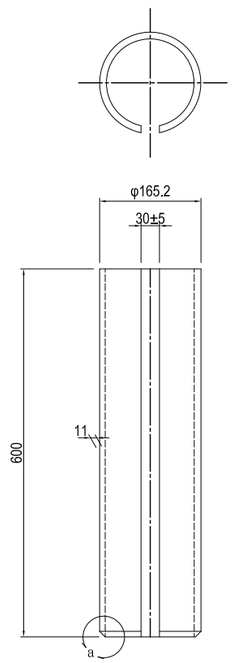
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



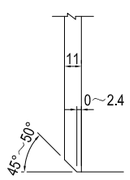
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



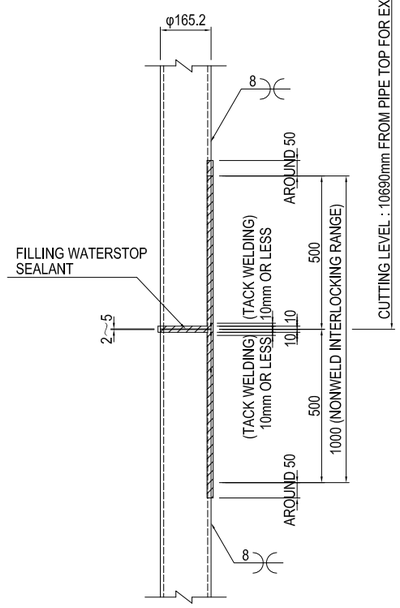
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



DETAIL a

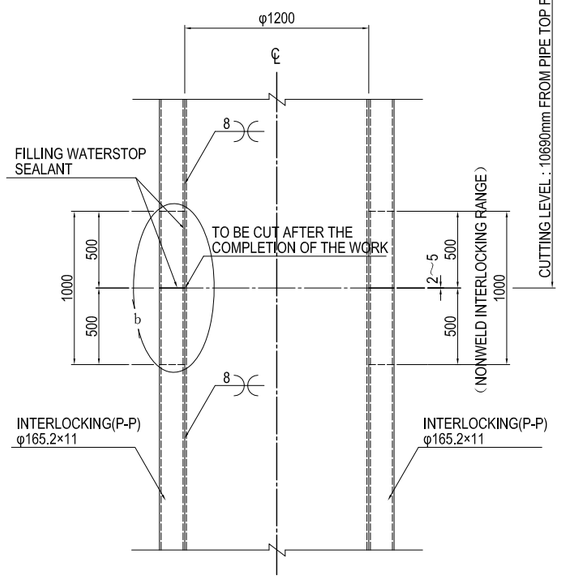


DETAIL b



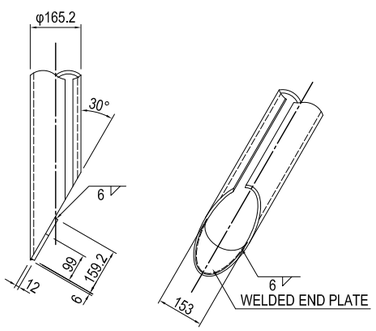
CUTTING LEVEL : 10690mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 10690mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20



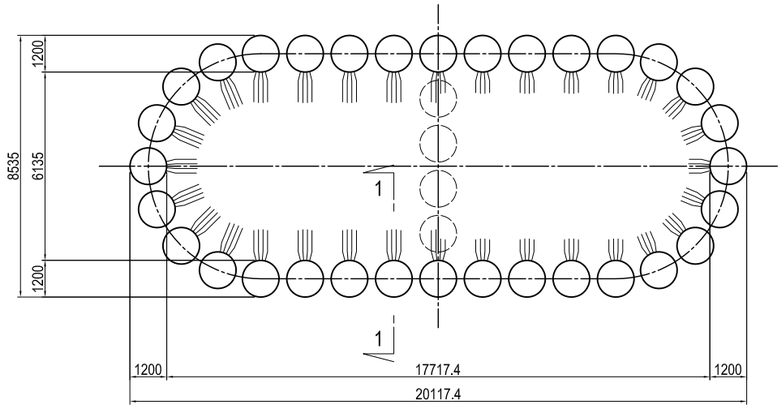
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

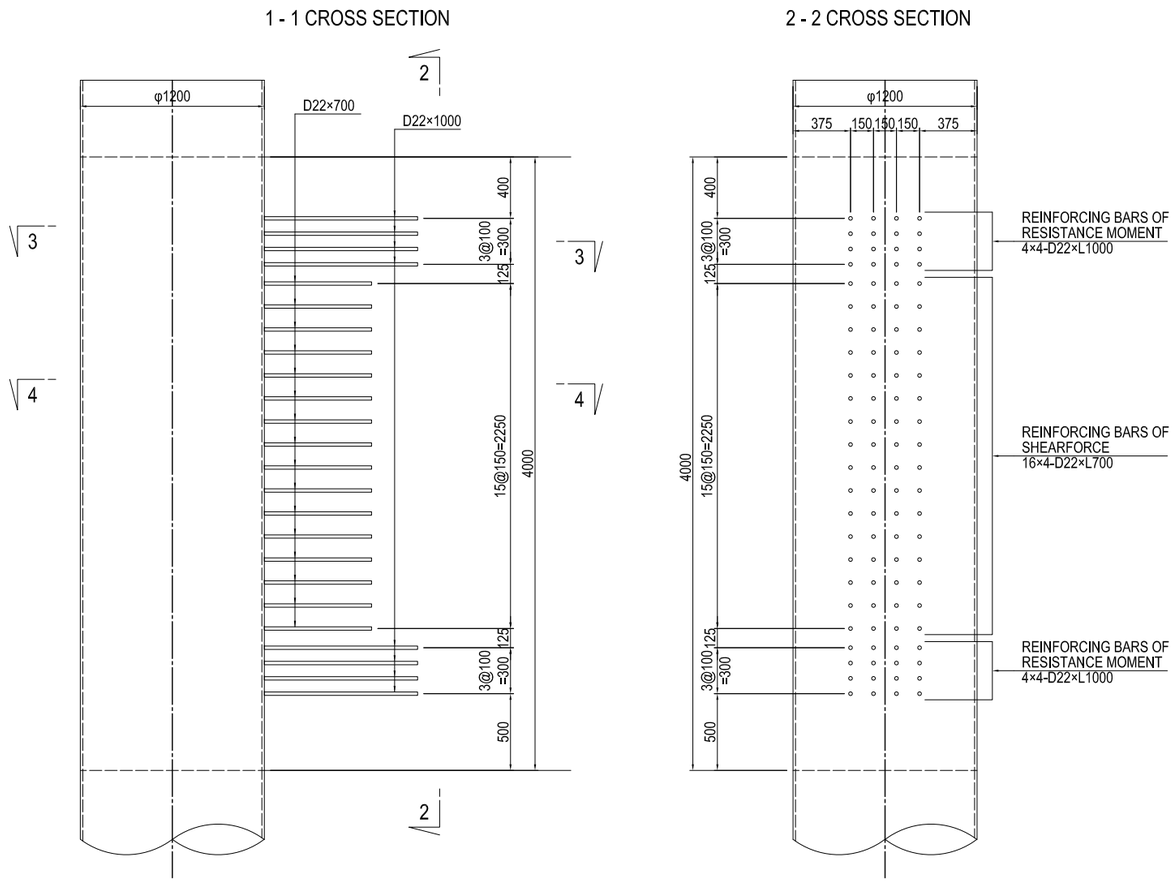
DRAWING TITLE	DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P7 PIER
PACKAGE	1
DWG No.	P1-SB-2130

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P7 PIER

PLAN S=1:200

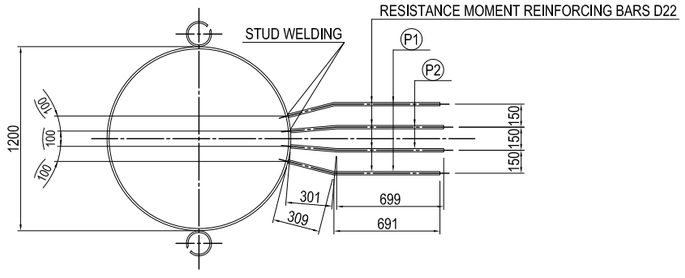


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

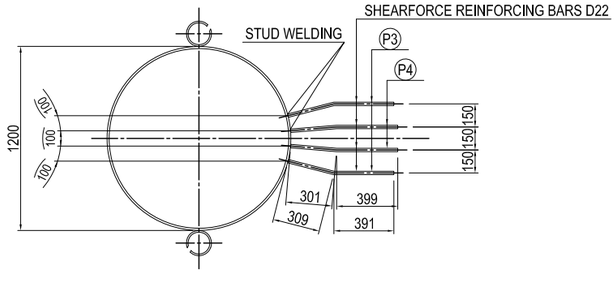


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

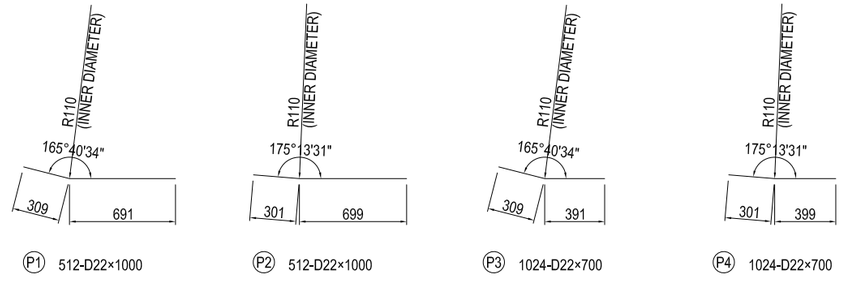


TABLE OF REINFORCING BARS

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1	D22	1000	512	3.04	3.04	1556.5	SD345 for STUD WELDING	
P2	D22	1000	512	3.04	3.04	1556.5	SD345 for STUD WELDING	
P3	D22	700	1024	3.04	2.13	2181.1	SD345 for STUD WELDING	
P4	D22	700	1024	3.04	2.13	2181.1	SD345 for STUD WELDING	
				D22	7475.2	kg		
				TOTAL WEIGHT	7475.2	kg		

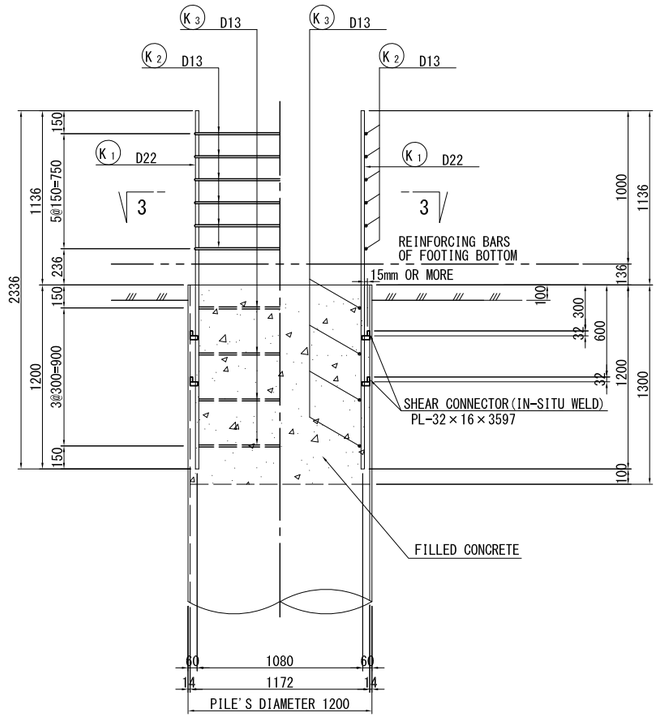
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

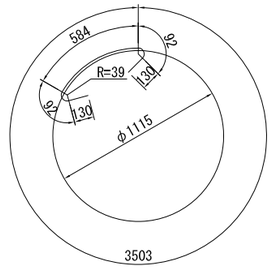
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P7 PIER	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2131

DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P7 PIER S=1:40

DETAIL OF PILE TOP

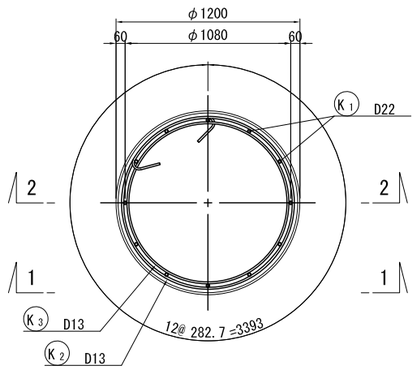
1 - 1　2 - 2

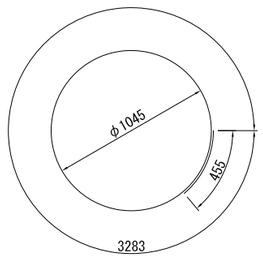




K2　6 - D13 × 4530

3 - 3

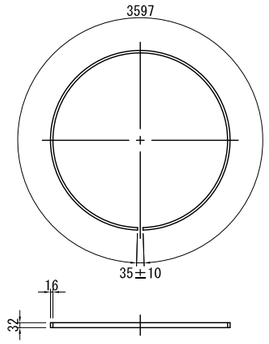




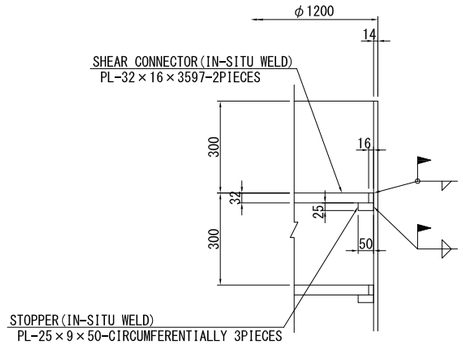
K3　4 - D13 × 3740

DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



MATERIAL LIST

WEIGHT/EA.

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
PILE TOP ACCOMPANYING ITEMS								
PL	PL-32*16	3597	2	4.019	14.456	28.9	SS400	SHEAR CONNECTOR
PL	PL-25*9	50	6	1.766	0.088	0.5	SS400	STOPPER
REINFORCEMENT								
K1	D22	2340	12	3.04	7.11	85	SD345	|
K2	D13	4530	6	0.995	4.51	27	SD345	○
K3	D13	3740	4	0.995	3.72	15	SD345	○
TOTAL						127		
FILLED CONCRETE　(σck = 24 N/mm^2)								
V = 1/4 × π × 1.172^2 × 1.300　=　1.402 m^3								

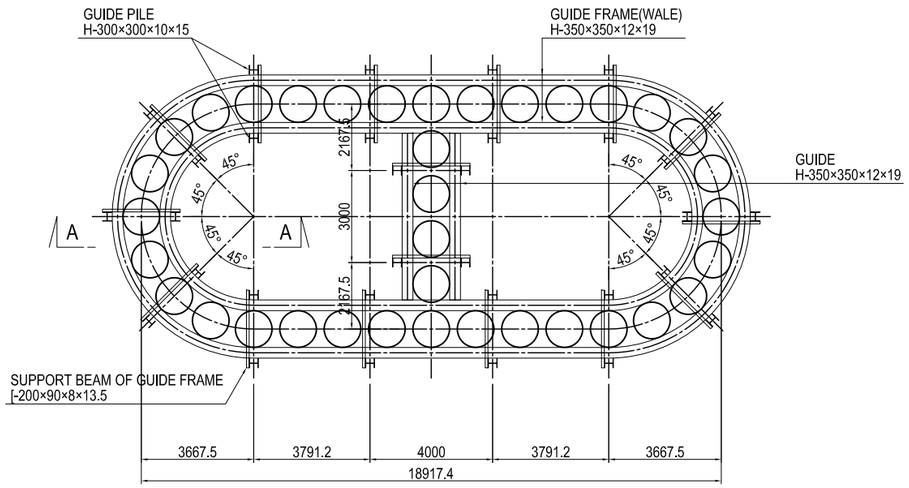
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		4
PILE TOP	SS400	TOTAL	kg	29.4	117.6
REINFORCEMENT	SD345	D22	kg	85	340
		D13	kg	42	168
		TOTAL	kg	127	508
FILLED CONCRETE	σck = 24 N/mm^2		m^3	1.402	5.6

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
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.		

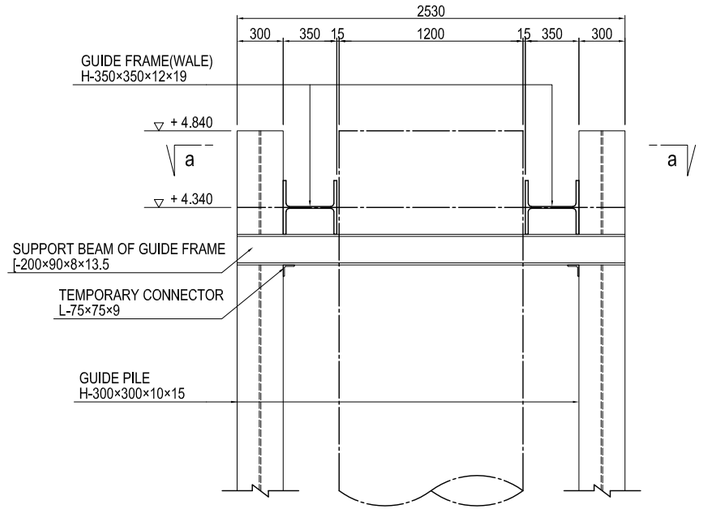
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P7 PIER	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2132

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P7 PIER (1)

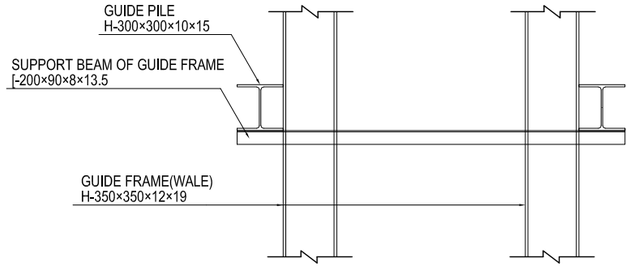
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



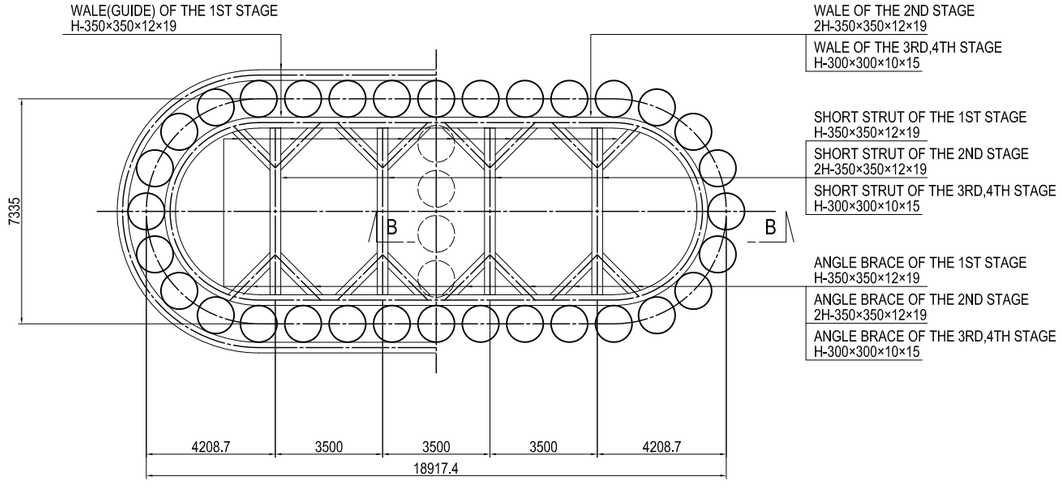
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

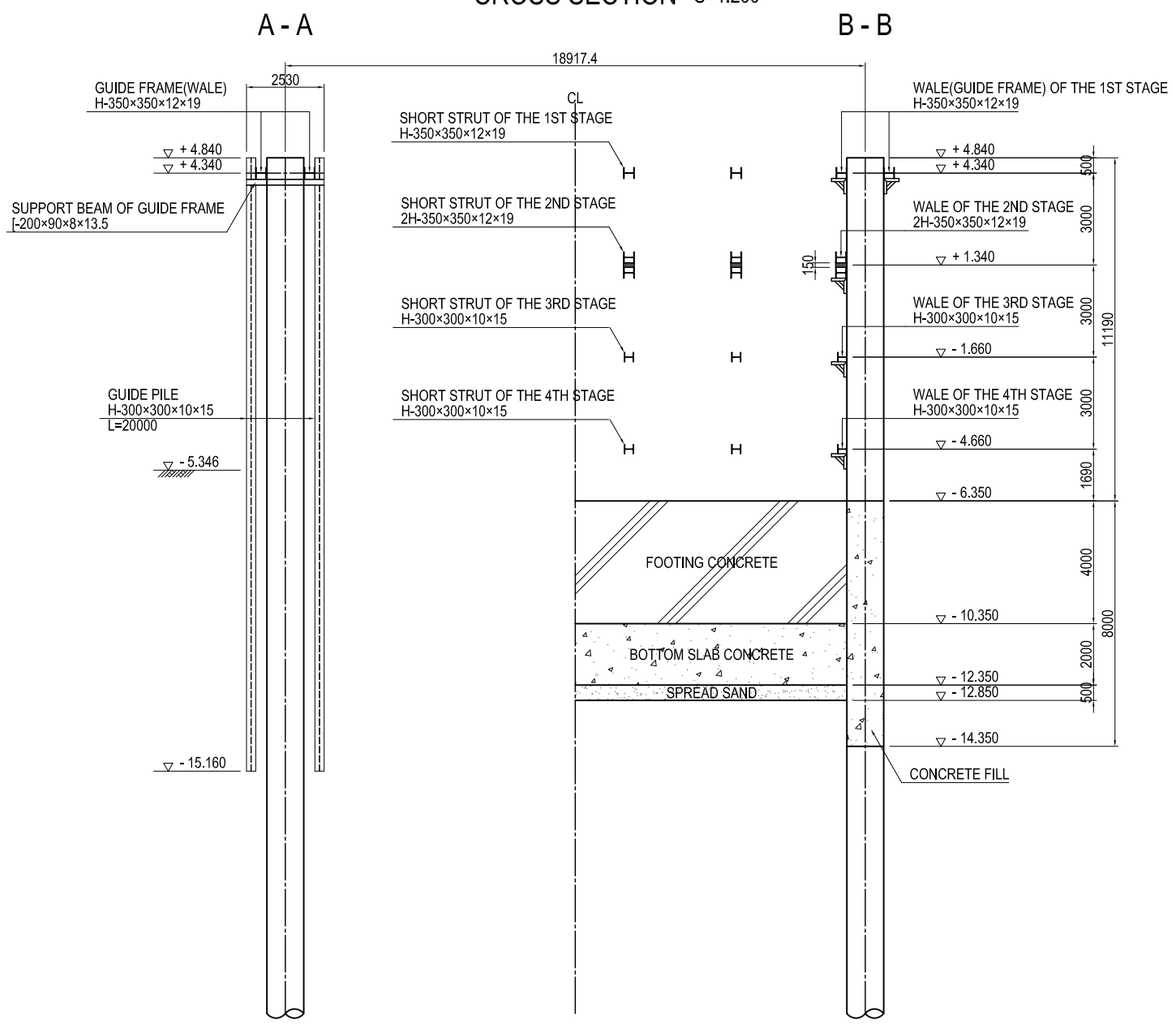


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

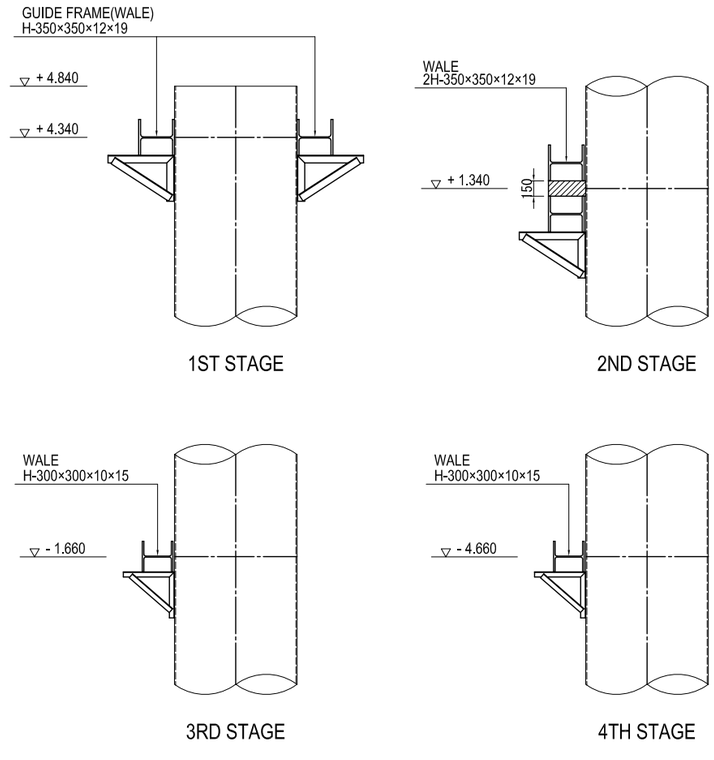
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P7 PIER (1)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2133

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P7 PIER (2)

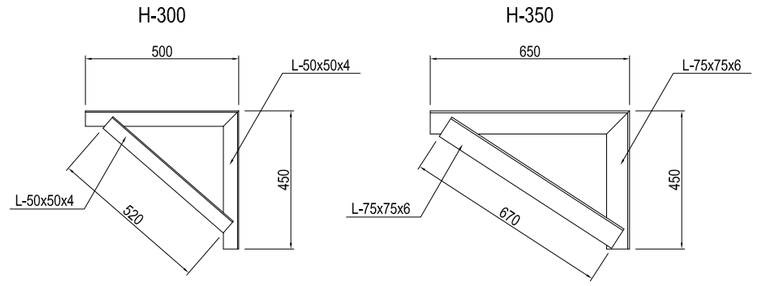
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20

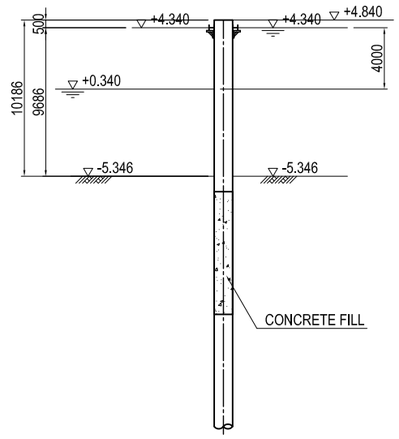
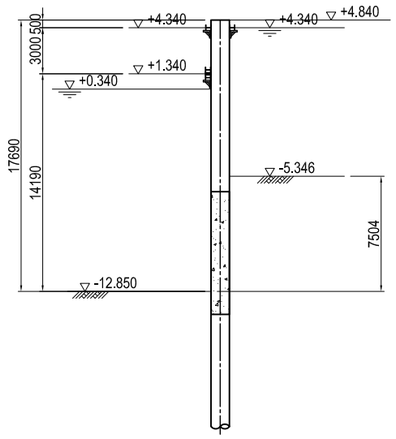
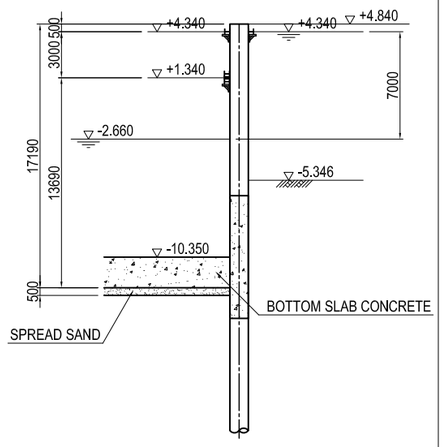
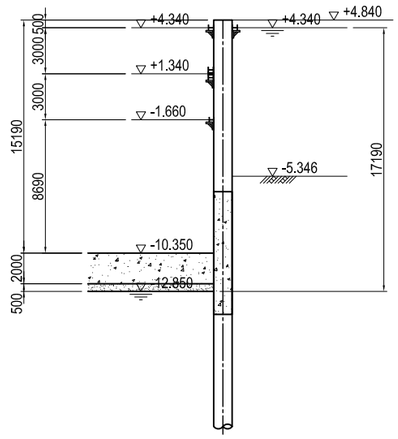
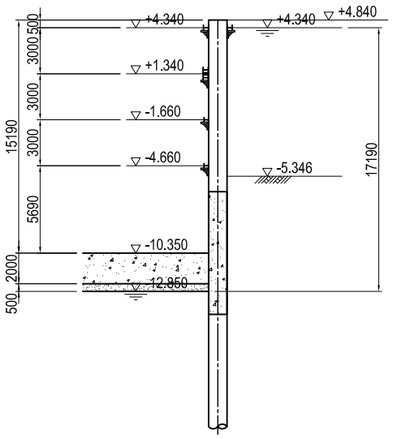
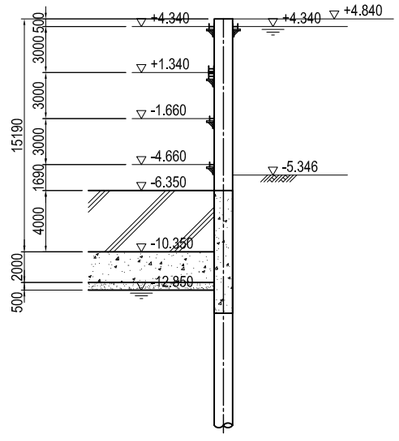


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		27 Nov.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P7 PIER (2)	1
CHECKED BY	T. HAYAKAWA		28 Nov.2017		DWG No.
APPROVED BY	Y. SANO		29 Nov.2017		P1-SB-2134

(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P7 PIER

S=1:400

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
				
Excavate inside of exterior sheet pilles and filled with concrete as shown. draining the inside of cofferdam up to +0.340m level. the 1st support Installation.	The 2nd support Installation. underwater excavation up to -12.850m level.	Draining the inside of cofferdam up to -2.660m level. Placement of spread sand followed by Casting undeawater bottom slab concrete.	The 3rd support Installation. Dry up inside the cofferdam.	The 4th support Installation.
STEP 6				
				
Casting of footing concrete.				

Note : This drawing can be used for reference only.

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	S. IMADA	27 Nov.2017	(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P7 PIER	1
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		DWG No.
				APPROVED BY	Y. SANO	29 Nov.2017		P1-SB-2135