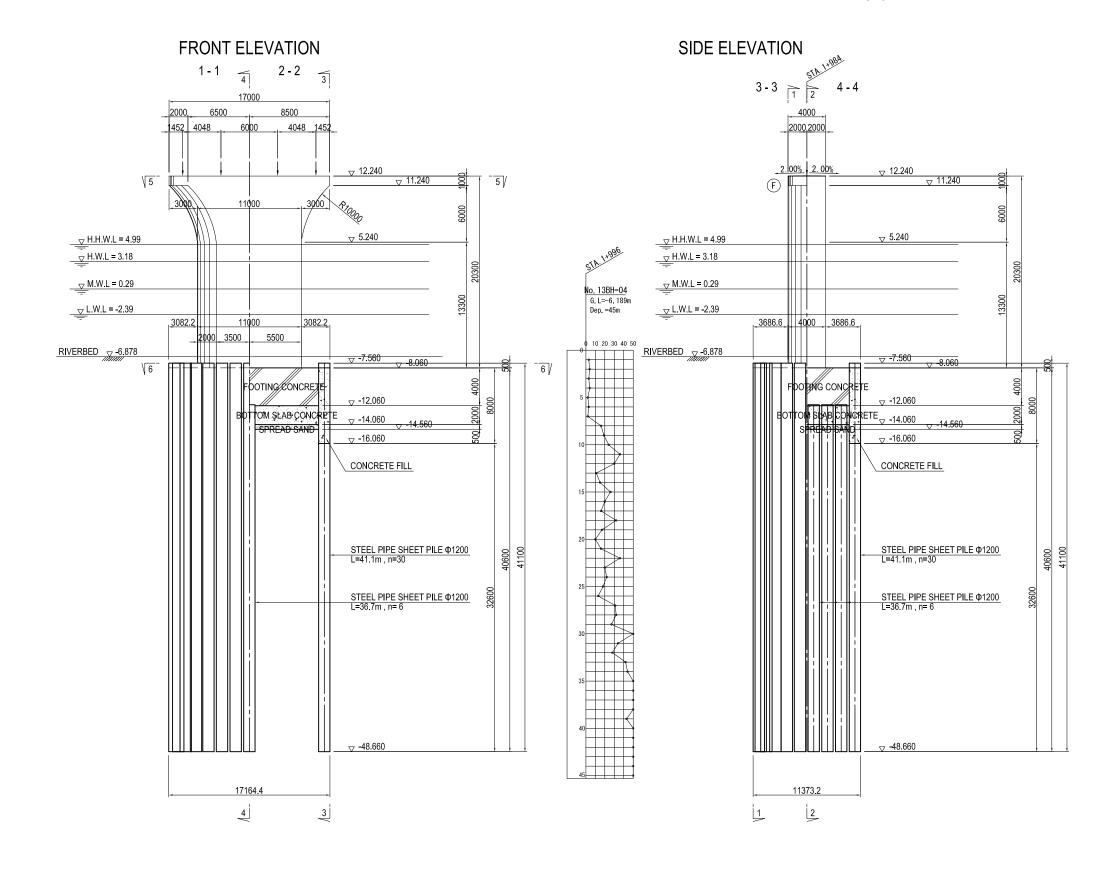
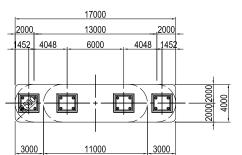
GENERAL VIEW OF P19 PIER (1)

S=1:400



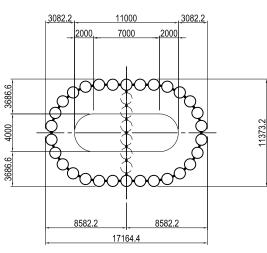
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

		CONCRETE	BAR
	BEAM	σck = 30 N/mm ²	SD345
	COLUMN	σck = 30 N/mm ²	SD390 • SD345
	FOOTING	σck = 24 N/mm ²	SD345

2

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT





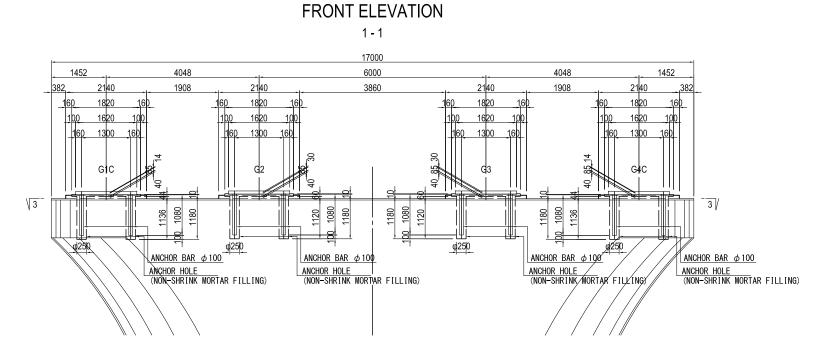


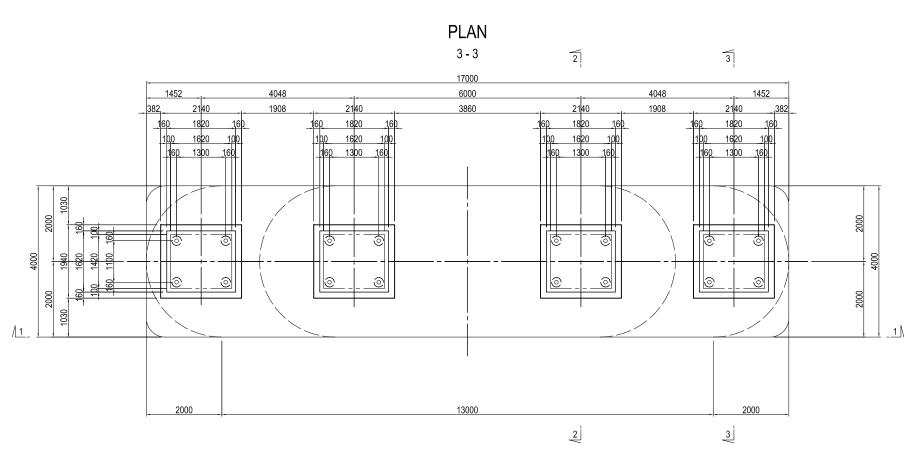
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

DRAWING TITLE PACKAGE GENERAL VIEW OF P19 PIER (1) DWG No. P2-SB-2501

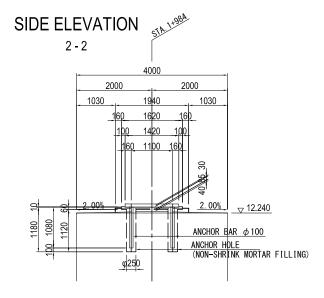
GENERAL VIEW OF P19 PIER (2)

DETAIL OF BEARING AND ANCHOR

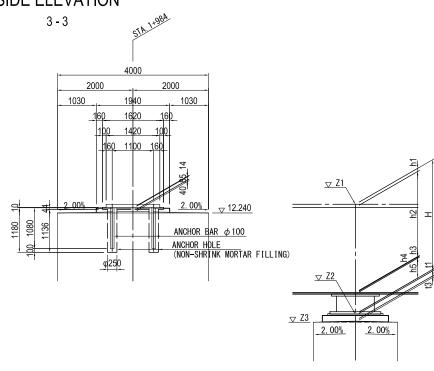




S=1:100



SIDE ELEVATION



	P19 PIER				
	_	G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	15. 617	15.698	15. 698	15. 617
PAVEMENT	h1	0. 080	0.080	0.080	0. 080
GIRDER	h2	2. 709	2.790	2. 790	2. 709
BOTTOM FLANGE	h3	0. 050	0.034	0. 034	0. 050
SOLE PLATE	h4	0. 040	0.040	0.040	0. 040
BEARING	h5	0. 359	0.359	0.359	0. 359
SUBTOTAL	Н	3. 238	3.303	3. 303	3. 238
ELEVATION OF BEARING BOTTOM	Z2	12. 379	12.395	12. 395	12. 379
MORTAR	t1	0.014	0.030	0.030	0.014
BEARING BASE	t2	0. 085	0.085	0.085	0. 085
DRAINAGE INCLINE	t3	0. 040	0.040	0.040	0. 040
ELEVATION OF PIER TOP	Z3	12. 240	12. 240	12. 240	12. 240

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT





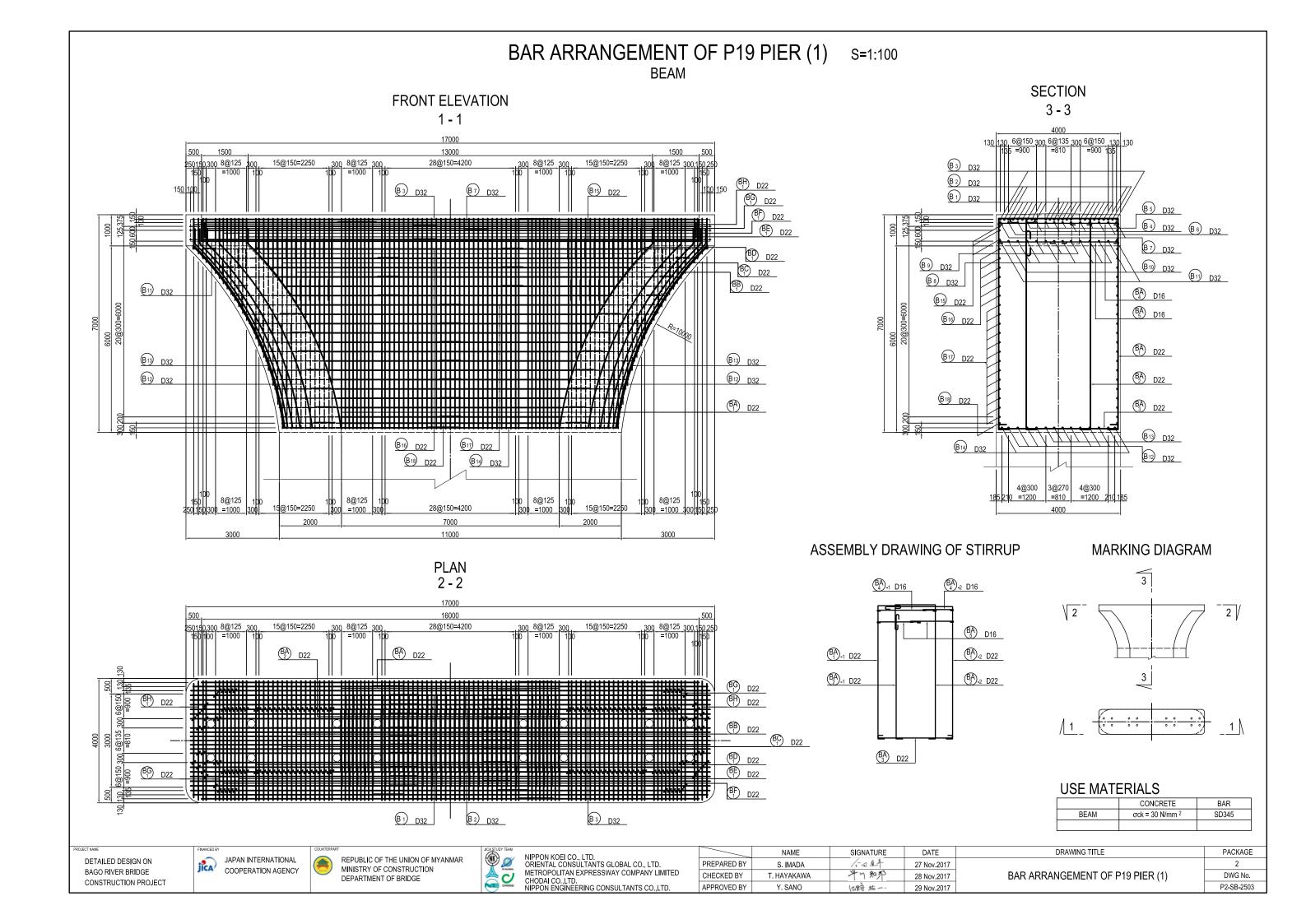


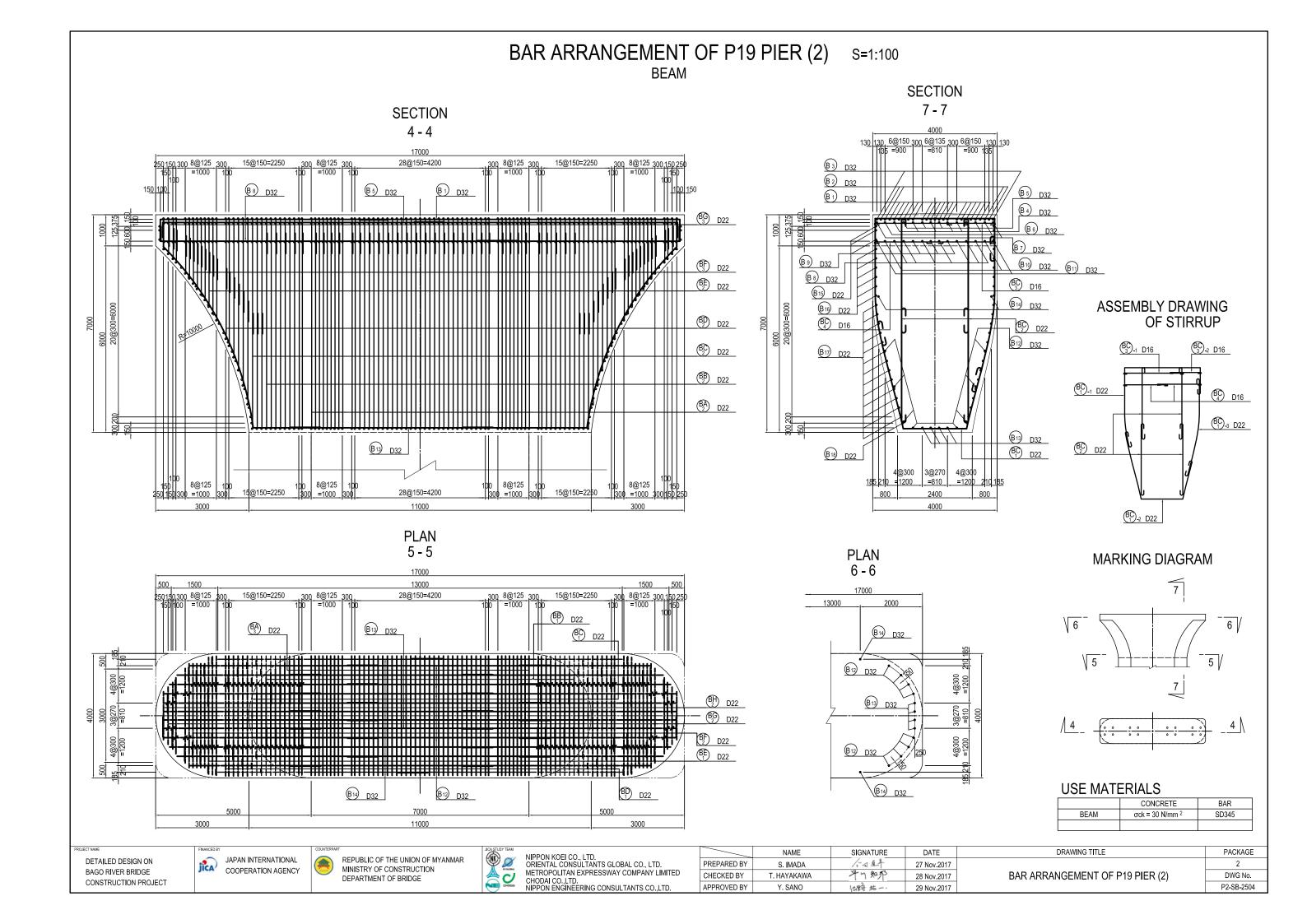
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知野	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

2 GENERAL VIEW OF P19 PIER (2) DWG No.

PACKAGE

DRAWING TITLE





BAR ARRANGEMENT OF P19 PIER (3) **BEAM** DETAIL OF BEAM S=1:20 **PLAN** 8 - 8 LONGITUDINAL TRANSVERSE (B₁) D32 16000 100 150 (50mm 38 112 (50 OR MORE) 15@150=2250 28@150=4200 15@150=2250 (BA) D16 (BA) D16 B 4 D32 BC D16 BD D16 B₁₅ D22 **₿** D16 B 6 D32 1 1 MAIN BAR OF COLUMN D38 (BD) D22 PLAN 9 - 9 (BA) D22 OR MORE) HOOP OF COLUMN D22 16000 B₁₇ D₂₂ 250150300 8@125 300 150100 =1000 11 15@150=2250 300 8@125 300 150 25 00 =1000 | 1150 28@150=4200 15@150=2250 R=10000 B₁₈ D₂₂ (BA) D16 1 - 1 (BD) D16 (BF) D22 B 9 D32 B₁₀ D₃₂ B₁₁ D₃₂ TRANSVERSE 2000 MARKING DIAGRAM **USE MATERIALS** CONCRETE BAR BEAM σck = 30 N/mm ² SD345 DRAWING TITLE PACKAGE SIGNATURE NAME DATE NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED JAPAN INTERNATIONAL REPUBLIC OF THE UNION OF MYANMAR DETAILED DESIGN ON 1-147 PREPARED BY S. IMADA 27 Nov.2017 2 MINISTRY OF CONSTRUCTION COOPERATION AGENCY BAGO RIVER BRIDGE CHECKED BY 平り知が DWG No. T. HAYAKAWA 28 Nov.2017 BAR ARRANGEMENT OF P19 PIER (3)

APPROVED BY

优码 施一

29 Nov.2017

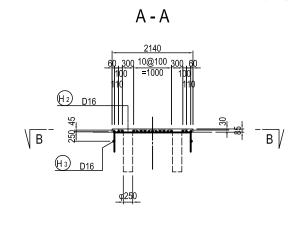
DEPARTMENT OF BRIDGE

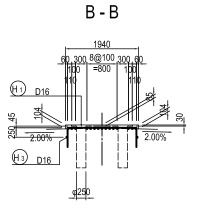
CONSTRUCTION PROJECT

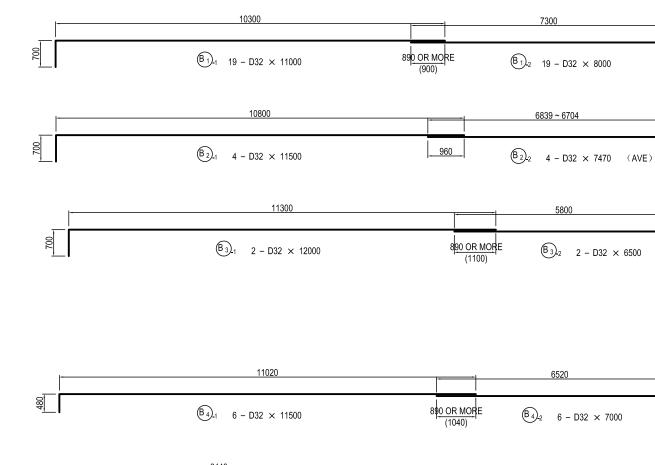
BAR ARRANGEMENT OF P19 PIER (4) S=1:100 BEAM

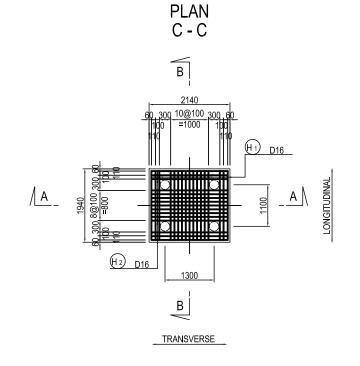
BAR ARRANGEMENT OF BEARING BASE (N=4)

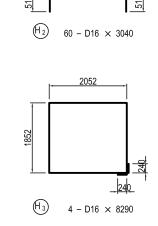
SECTION

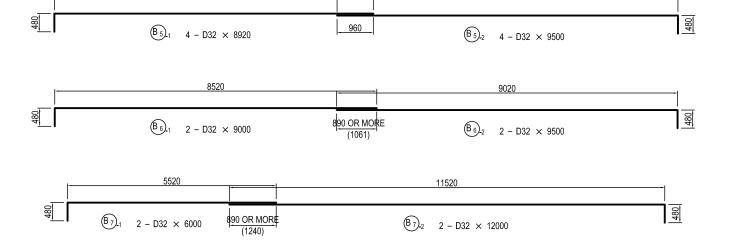










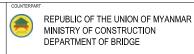


USE MATERIALS

		CONCRETE	BAR
В	EAM	σck = 30 N/mm ²	SD345

IECT NAME

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY





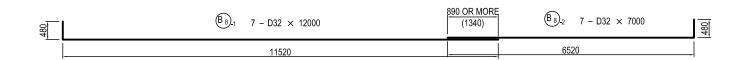
	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA	1-147	27 Nov.2017	
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017	BAR ARF
APPROVED BY	Y SANO	小鸡 紘一,	29 Nov 2017	

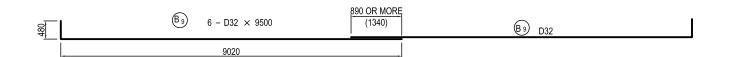
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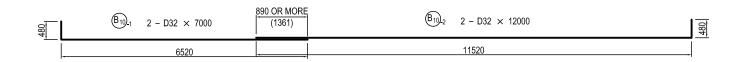
 2
 DWG No.

 P2-SB-2506
 P2-SB-2506

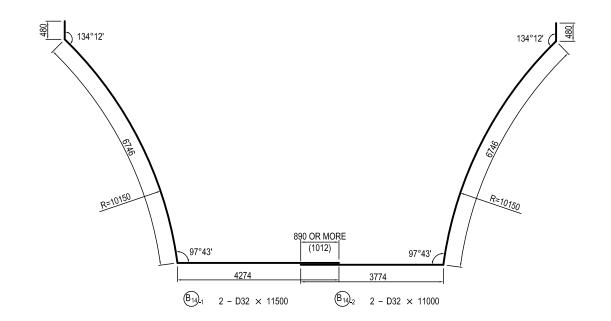
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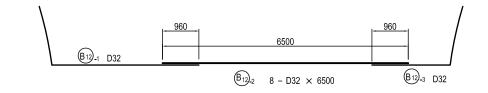


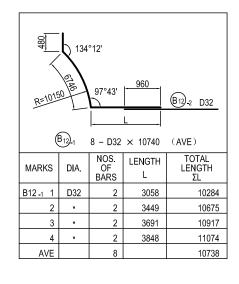


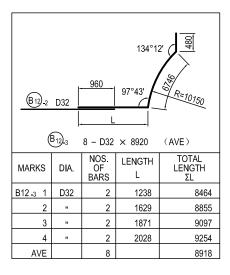


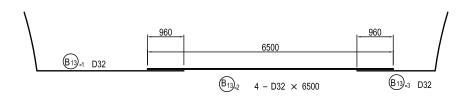
480	(B ₁) ₋₁ 2 - D32 × 12000	90 OR MOF (1040)	RE B ₁₁ -2 2 - D32 × 6000	480
	11520		5520	Ī

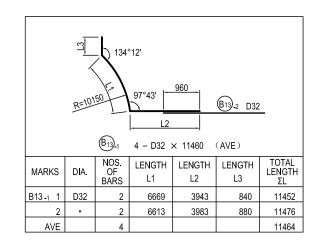


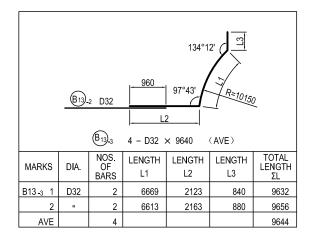










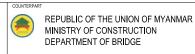


USE MATERIALS

		CONCRETE	BAR		
Ī	BEAM	σck = 30 N/mm ²	SD345		

JECT NAME

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY

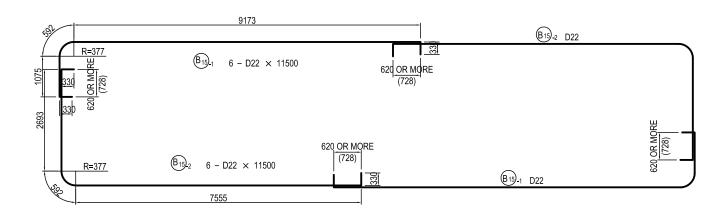


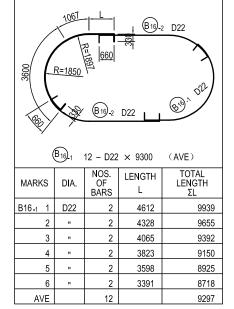
JICA STUDY TEAM	
	NIPPON KOEI CO., LTD.
	ORIENTAL CONSÚLTANTS GLOBAL CO., LTD.
OC BUOMA	METROPOLITAN EXPRESSWAY COMPANY LIMITED
70	CHODAI COLTD.
CHOOM	NIPPON ENGINEERING CONSULTANTS CO.,LTD.

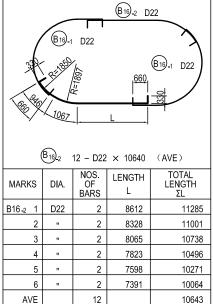
	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA	1-147	27 Nov.2017	ĺ
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017	
APPROVED BY	Y SANO	比略 统一:	29 Nov 2017	ı

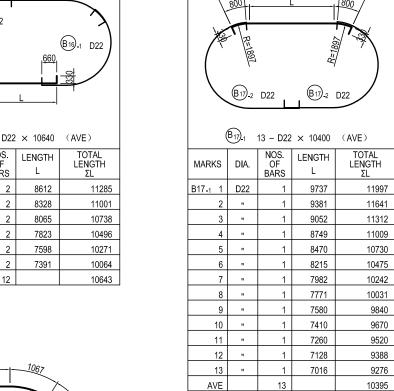
DRAWING TITLE	PACKAGE
	2
BAR ARRANGEMENT OF P19 PIER (5)	DWG No.
()	P2-SB-2507

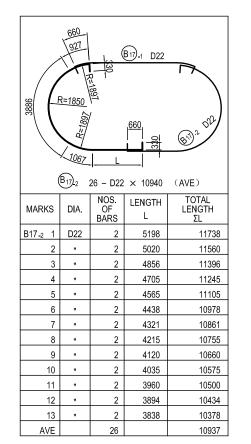
BAR ARRANGEMENT OF P19 PIER (6) S=1:100 BEAM

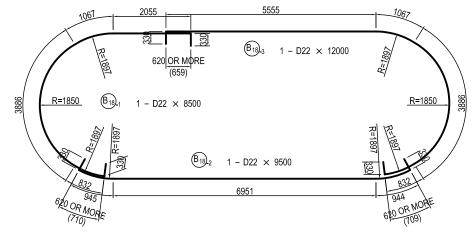










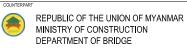


USE MATERIALS

		CONCRETE	BAR	
ı	BEAM	σck = 30 N/mm ²	SD345	
			·	

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

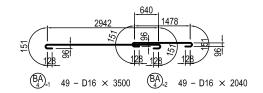


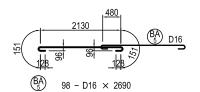


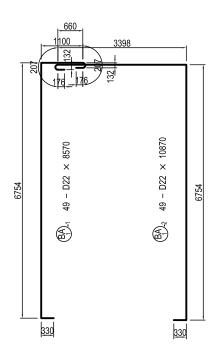
NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD.	
METROPOLITAN EXPRESSWAY COMPANY LIMITED	
CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO. LTD.	

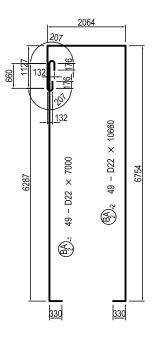
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知野	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

BAR ARRANGEMENT OF P19 PIER (7) S=1:100 BEAM

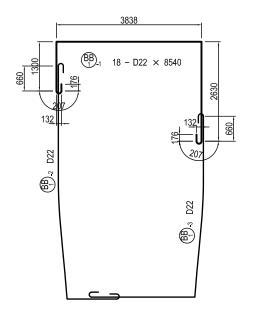


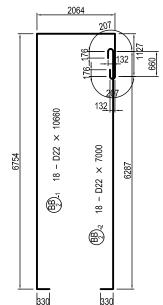


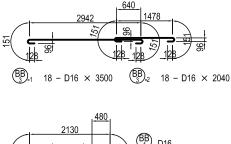


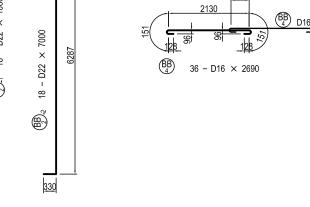


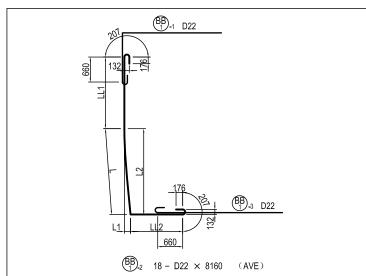




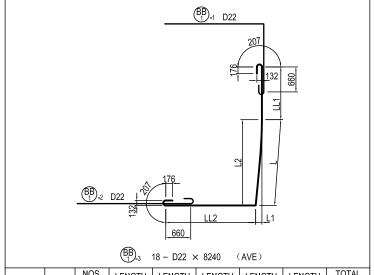








9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1 ₋₂ 1	D22	2	1464	33	1464	4650	1511	8391
2	u	2	1892	54	1891	4223	1490	8371
3	"	2	2282	97	2280	3834	1447	8329
4	,	2	2606	155	2601	3513	1389	8274
5		2	3029	227	3020	3094	1317	8206
6	"	2	3241	315	3225	2889	1229	8125
7	"	2	3607	416	3580	2534	1128	8035
8	,	2	3827	541	3785	2329	1003	7925
9		2	4115	698	4051	2063	846	7790
AVE		18						8161



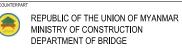
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BB1 ₋₃ 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3		2	2282	97	2280	2504	2857	8409
4		2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	8205
7	"	2	3607	416	3580	1204	2538	8115
8		2	3827	541	3785	999	2413	8005
9	"	2	4115	698	4051	733	2256	7870
AVE		18						8241

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm ²	SD345

ROJECT NAME



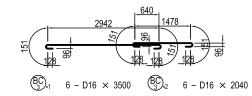


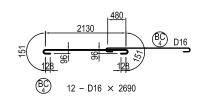


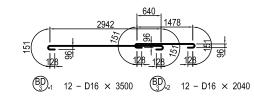


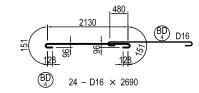
	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA	1-147	27 Nov.2017	
CHECKED BY	T. HAYAKAWA	平川知野	28 Nov.2017	
APPROVED BY	Y SANO	14.83 栋一:	29 Nov 2017	

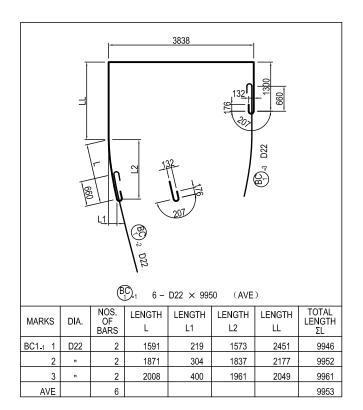
BAR ARRANGEMENT OF P19 PIER (8) S=1:100 BEAM

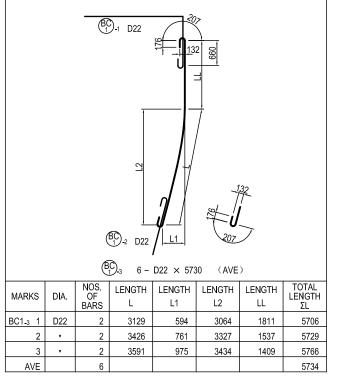


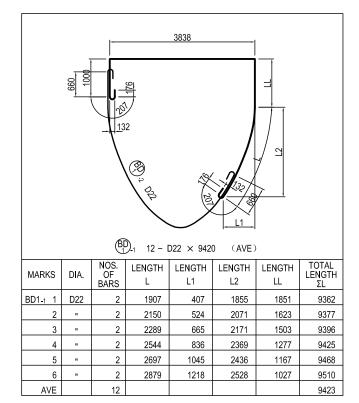


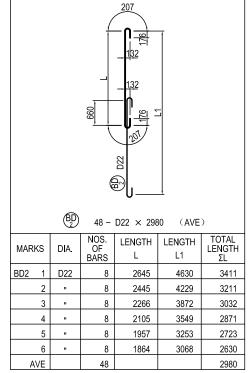


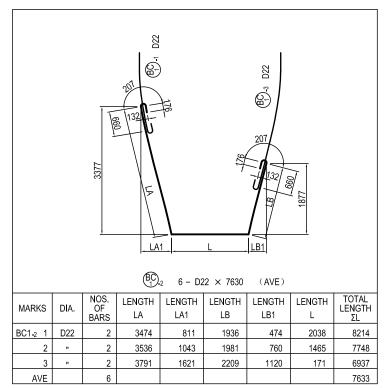


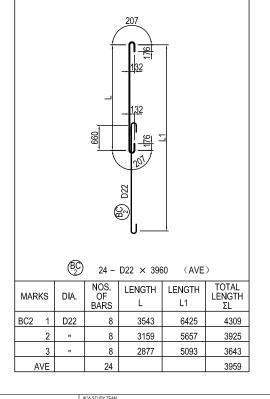


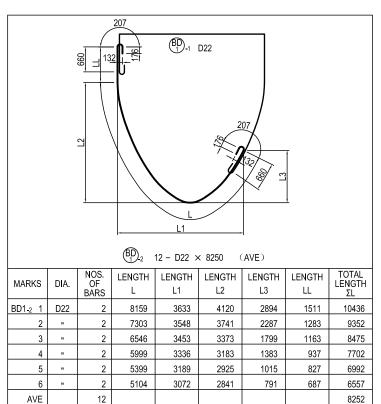








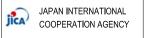


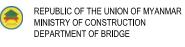


USE MATE	ERIALS	
	CONCRETE	BAR
BEAM	σck = 30 N/mm ²	SD345

PROJECT NAME

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT



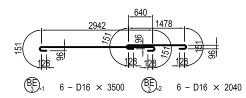


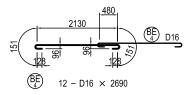
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD.
NIPPON FINGINFERING CONSULTANTS CO. LTD.

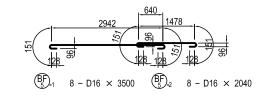
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y SANO	比略 统一:	29 Nov 2017

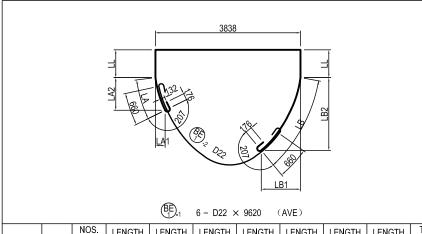
DRAWING TITLE	PACKAGE
	2
BAR ARRANGEMENT OF P19 PIER (8)	DWG No.
, ,	P2-SB-2510

BAR ARRANGEMENT OF P19 PIER (9) BEAM



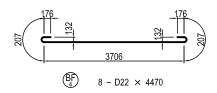


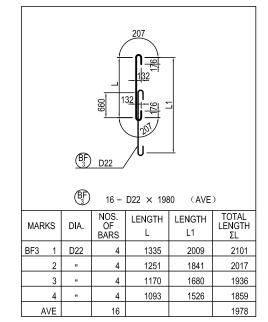


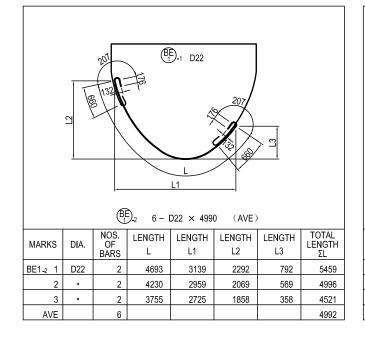


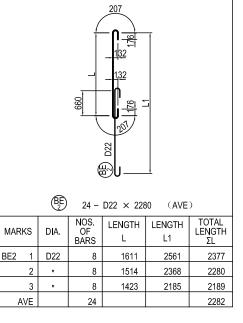
				(BE)_1	6 - D22 >	< 9620 ((AVE)			
MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1 ₋₁ 1	D22	2	820	196	793	2475	1141	2129	818	9535
2	=	2	905	257	863	2624	1351	2154	736	9605
3		2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617

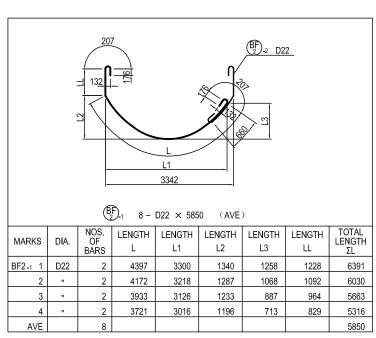


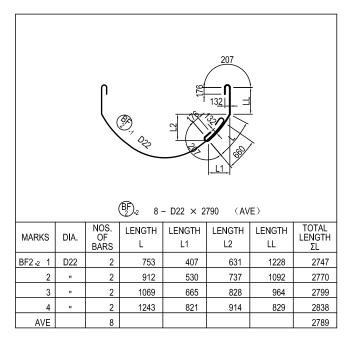












USE MATERIALS

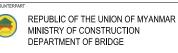
	CONCRETE	BAR
BEAM	σck = 30 N/mm ²	SD345

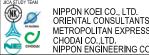
PACKAGE

2

DWG No.



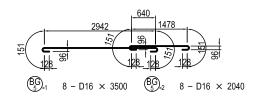


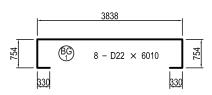


NIPPON KOEI CO., LTD.
ORIENTAL CONSÚLTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

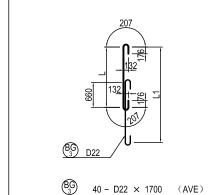
	NAME	SIGNATURE	DATE	DRAWING TITLE
PREPARED BY	S. IMADA	1-147	27 Nov.2017	
CHECKED BY	T. HAYAKAWA	平り知が	28 Nov.2017	BAR ARRANGEMENT OF P19 PIER (9)
APPROVED BY	Y. SANO	饭鸭 施一,	29 Nov.2017	

BAR ARRANGEMENT OF P19 PIER (10) s=1:100 BEAM

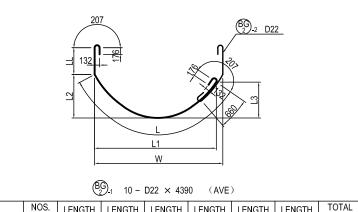




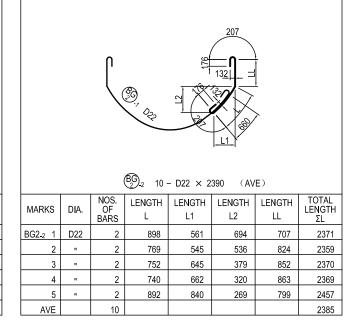


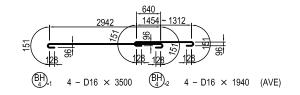


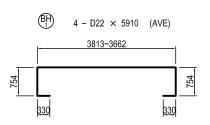
		•				
MARKS	;	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3	1	D22	8	1113	1565	1879
	2		8	1038	1415	1804
;	3	н	8	869	1077	1635
4	1	"	8	866	1071	1632
į.	5		8	787	914	1553
AVE	=		40			1701

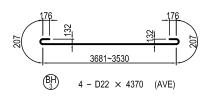


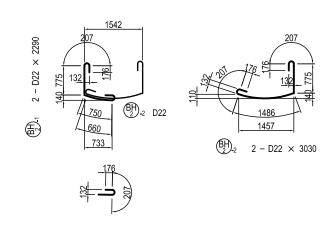
			_	-					
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH W	LENGTH LL	TOTAL LENGTH ΣL
BG2 ₋₁ 1	D22	2	4015	3220	1151	948	3342	707	5488
2	=	2	3528	2977	876	789	3042	824	5118
3	"	2	2594	2371	491	432	2442	852	4212
4	п	2	2227	2077	369	321	2142	863	3856
5	"	2	1715	1639	271	159	1842	799	3280
** (=		۱ ,							4004









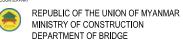


USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm ²	SD345

2





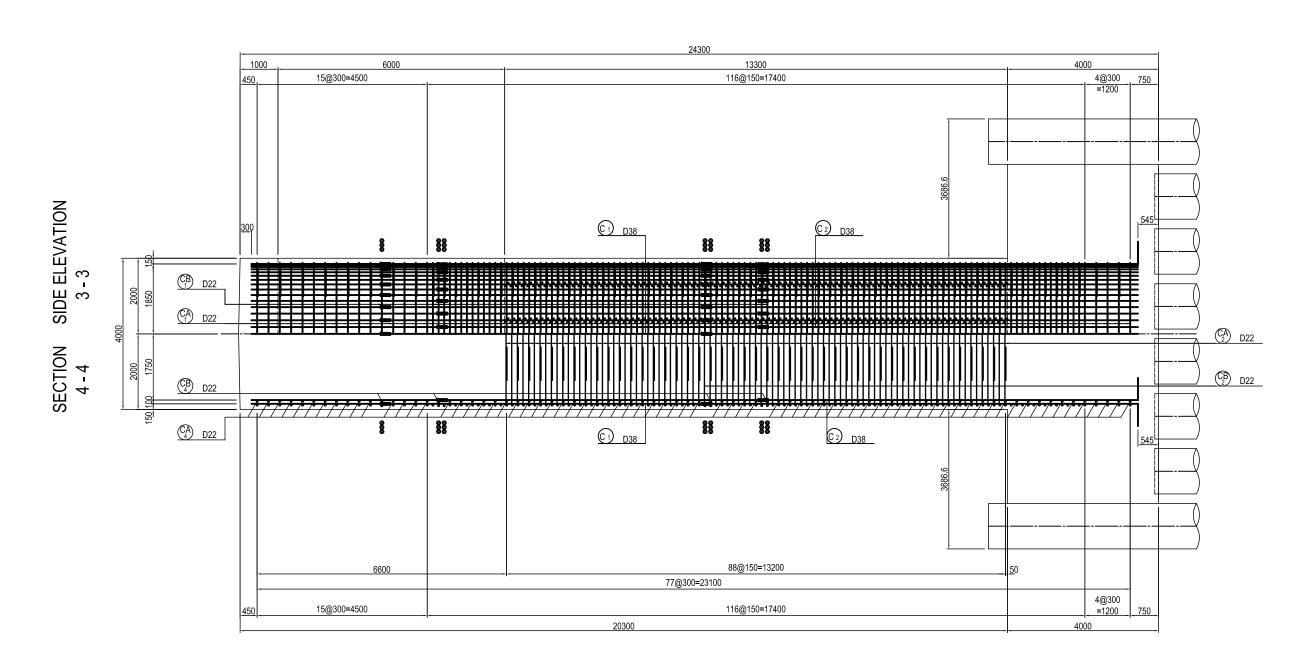


NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS COLTD.

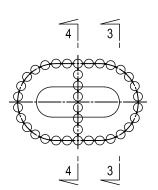
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	中州知邓	28 Nov.2017
APPROVED BY	Y SANO	以给 紘一,	29 Nov 2017

BAR ARRANGEMENT OF P19 PIER (11) S=1:100 COLUMN 1000 6000 13300 15@300=4500 116@150=17400 545 ©2 D38 FRONT ELEVATION 1 - 1 (CB) D22 CA D22 SECTION 2-2 (CA) D22 (CB) D22 ©1 D38 545 88@150=13200 4@300 116@150=17400 15@300=4500 =1200 1000 MARKING DIAGRAM 6000 **USE MATERIALS** CONCRETE BAR Notes) 1. ••• : This mark indicates hoop arranged in the location of mechanical joint. MAIN BAR SD390 2. -: This mark indicates a mechanical joint. COLUMN $\sigma ck = 30 \text{ N/mm}^2$ OTHERS SD345 DRAWING TITLE PACKAGE SIGNATURE NAME DATE NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED JAPAN INTERNATIONAL REPUBLIC OF THE UNION OF MYANMAR DETAILED DESIGN ON 1-147 PREPARED BY S. IMADA 27 Nov.2017 2 MINISTRY OF CONSTRUCTION COOPERATION AGENCY BAGO RIVER BRIDGE CHECKED BY T. HAYAKAWA 平川知外 BAR ARRANGEMENT OF P19 PIER (11) DWG No. 28 Nov.2017 DEPARTMENT OF BRIDGE CONSTRUCTION PROJECT APPROVED BY 29 Nov.2017 饭鸭 施一

BAR ARRANGEMENT OF P19 PIER (12) S=1:100 COLUMN



MARKING DIAGRAM



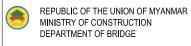
Notes) 1. ••• : This mark indicates hoop arranged in the location of mechanical joint.
2. ••• : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	CONCRETE BAR	
COLUMN	σck = 30 N/mm ²	MAIN BAR	SD390
COLUMN	OCK - 30 N/IIIII 2	OTHERS	SD345

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT





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

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

 DRAWING TITLE
 PACKAGE

 2
 2

 BAR ARRANGEMENT OF P19 PIER (12)
 DWG No.

 P2-SB-2514

BAR ARRANGEMENT OF P19 PIER (13) S=1:100 COLUMN

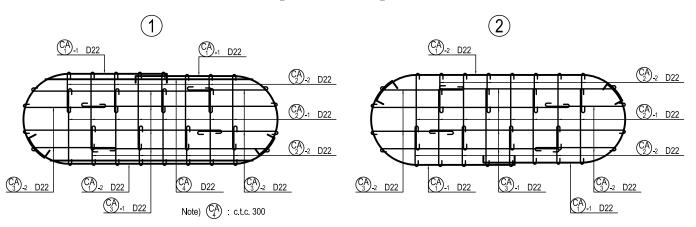
PLAN 5 - 5 11000 2000 7000 2000 150 150 2000 150

7@1000=7000

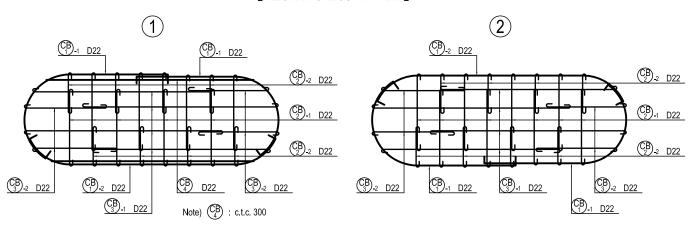
56@125=7000

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

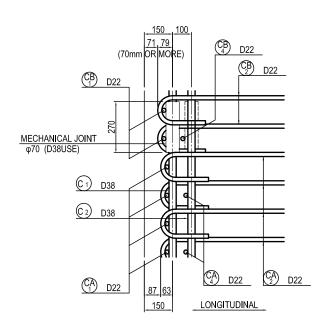
【STANDARD PART】



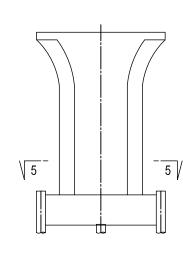
[MECHANICAL JOINT PART]



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM

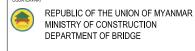


USE MATERIALS

COLUMN σck = 30 N/mm ² MAIN BAR SD390 OTHERS SD345		CONCRETE	BAR	
OTHERS SD345	COLLIMA	gol = 20 N/mm 2	MAIN BAR	SD390
	COLUMN	OCK - 30 N/IIIII 2	OTHERS	SD345

IECT NAME

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY





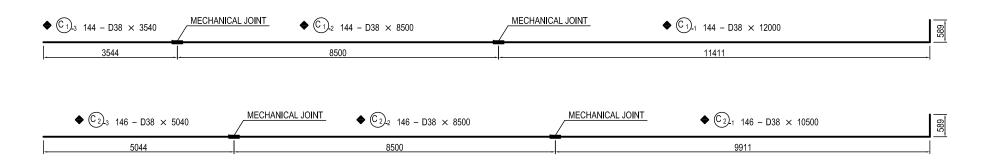
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知野	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

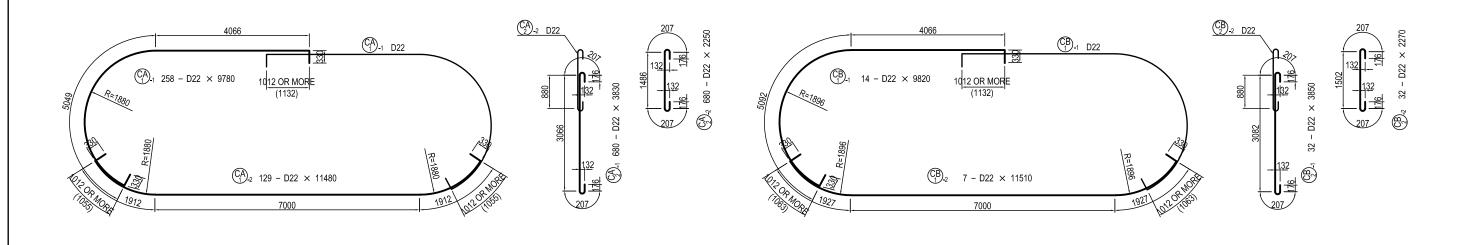
 DRAWING TITLE
 PACKAGE

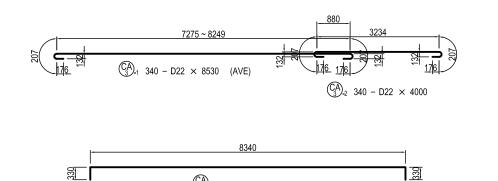
 2
 DWG No.

 P2-SR-2615
 P2-SR-2615

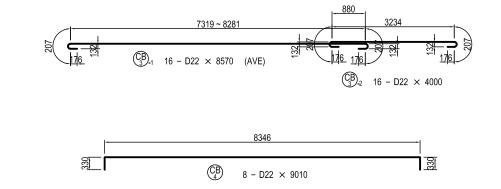
BAR ARRANGEMENT OF P19 PIER (14) S=1:100 COLUMN

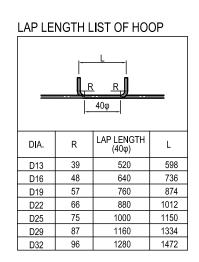






(CA) 148 - D22 × 9000





Notes) 1. ♦ :SD390 2. — MECHANICAL JOINT

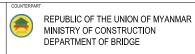
USE MATERIALS

CONCRET		BAR	
COLUMN	σck = 30 N/mm ²	MAIN BAR	SD390
COLUMN	OCK - 30 N/IIIII 2	OTHERS	SD345

2

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY



NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITE CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	:D
THE FOR ENGINEERING CONCORDING CO.,ETB.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	斗竹知杯	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

DRAWING TITLE PACKAGE BAR ARRANGEMENT OF P19 PIER (14) DWG No. P2-SB-2516

BAR ARRANGEMENT OF P19 PIER (15) NOT TO SCALE

BAR SCHEDULE (SD390)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D38	12000	144	8.95	107.40	15466	(144)
1-2	u u	8500	144	п	76.08	10956	- (144)
1-3	"	3540	144	"	31.68	4562	_
2-1	u	10500	146	п	93.98	13721	(146)
2-2	u	8500	146	п	76.08	11108	(146)
2-3	"	5040	146	"	45.11	6586	_
				-	SUBTOTAL	62399	kg
	SI	D390	D38	((62399 kg	MECHANICAL (580)	
			TOTAL	(62399 ^{kg}	(580)	

BAR SCHEDULE (SD345)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-	1 D32	11000	19	6.23	68.53	1302	_
1-2	2 "	8000	19	"	49.84	947	_
2-	1 "	11500	4	"	71.65	287	_
2-2	2 "	7470	4	"	46.54	186	- (AVE)
3-	1 "	12000	2		74.76	150	_
3-2	2 "	6500	2	"	40.50	81	-
4-	1 "	11500	6		71.65	430	_
4-2	2 "	7000	6	"	43.61	262	_
5-	1 "	8920	4	"	55.57	222	_
5-2	2 "	9500	4	"	59.19	237	_
6-	1 "	9000	2	"	56.07	112	_
6-2	2 "	9500	2	"	59.19	118	_
7-	1 "	6000	2	"	37.38	75	_
7-2	2 "	12000	2	"	74.76	150	-
8-	1 "	12000	7		74.76	523	-
8-2		7000	7		43.61	305	_
	9 "	9500	6		59.19	355	-
10-	1	7000	2	п	43.61	87	"
10-2		12000	2	"	74.76	150	_
11-		12000	2	"	74.76	150	_
11-2		6000	2	"	37.38	75	_
12-		10740	8	"	66.91	535	\ (AVE)
12-2		6500	8	"	40.50	324	
12-0		8920	8		55.57	445	⊿ (AVE)
13-		11460	4		71.40	286	(AVE)
13-2		6500	4		40.50	162	- (///-
13-3	-	9640	4		60.06	240	⊿ (AVE)
14-	'	11500	2		71.65	143	_ (AVL)
14-2		11000	2	"	68.53	137	7
	-	11500	6	3.04	34.96	210	-
15-1 15-2		11500	6	0.04	34.96	210	
	_	9300	12		28.27	339	_
16-	`	10640	12	"	32.35	388	. ()
16-2	-	10400	13		31.62	411	(***-2)
17-	_	10400		"		865	(AVL)
17-2	-		26 1		33.26 25.84	26	C (AVE)
18-		8500 9500		"	28.88	29	٠
18-2			1	"		36	2
18-0	3 "	12000	1		36.48 SUBTOTAL	10990	kg
					SUBTUTAL	10990	
ο Λ	D22	0570	49	2.04	26 DE	1076	ľ
BA 1-		8570 10970	49	3.04	26.05	1276	7
1-2	-	10870	49	"	33.04	1619	t .
2-	_	7000			21.28	1043	<u>ا</u>
2-2		10660	49	"	32.41	1588	
	B10	4470	49	4.50	13.59	666	-
4-		3500	49	1.56	5.46	268	-
4-2		2040	49	"	3.18	156	"
	5 "	2690	98	"	4.20	412	kg
					SUBTOTAL	7028	0

ARŁ	REM	WEIGHT (kg)	WEIGHT/EA. (kg)	UNIT WEIGHT (kg/m)	NOS. OF BARS	LENGTH (mm)	DIA.	RKS	MAF
	7	467	25.96	3.04	18	8540	D22	4.4	BB
	r.	447	23.96		18	8160		1-1	DD
(A\	ر	447	25.05		18	8240		1-2	
(A\	ŗ			"			"	1-3	
	1	583	32.41	"	18	10660	"	2-1	
	<u>ٿ</u>	383	21.28		18	7000	" D40	2-2	
	"	98	5.46	1.56	18	3500	D16	3-1	
	"	57	3.18	"	18	2040	"	3-2	
	kg	151	4.20	ï	36	2690	"	4	
		2637	SUBTOTAL						
(A\	r	182	30.25	3.04	6	9950	D22	1-1	ВС
(A\	v	139	23.20	"	6	7630	"	1-2	
(A\	,	105	17.42	u u	6	5730		1-3	
(A\	C	289	12.04	u u	24	3960		2	
	-	33	5.46	1.56	6	3500	D16	3-1	
		19	3.18	"	6	2040		3-2	
		50	4.20	"	12	2690		4	
	kg	817	SUBTOTAL						
			332.0.7.2						
(A\	7	344	28.64	3.04	12	9420	D22	1-1	BD
(A\	C	301	25.08	=	12	8250	"	1-2	
(A\	C	435	9.06	=	48	2980	"	2	
	-	66	5.46	1.56	12	3500	D16	3-1	
		38	3.18	"	12	2040		3-2	
	"	101	4.20	"	24	2690	"	4	
	kg	1285	SUBTOTAL						
(A\	7	175	29.24	3.04	6	9620	D22	1-1	BE
(A\	6	91	15.17	"	6	4990	"	1-2	
(A\	ı.	166	6.93	"	24	2280	"	2	
	-	33	5.46	1.56	6	3500	D16	3-1	
	"	19	3.18	"	6	2040	"	3-2	
	"	50	4.20	"	12	2690	"	4	
	kg	534	SUBTOTAL						
		146	18.27	3.04	8	6010	D22	1	BF
(AV	L	142	17.78	"	8	5850	"	2-1	
(A)	1	68	8.48	ıı .	8	2790		2-2	
(A)	ı	96	6.02	"	16	1980	,	3	
(///	-	109	13.59	"	8	4470	,,	4	
	-	44	5.46	1.56	8	3500	D16	5-1	
	"	25	3.18	1.50	8	2040	"	5-2	
	kg	630	SUBTOTAL			2010		J-2	
		146	18.27	3.04	8	6010	D22	1	BG
(A\	L	134	13.35	u	10	4390	"	2 - 1	
(A\	ر	73	7.27	"	10	2390	"	2-2	
(A\	ı	207	5.17	"	40	1700	"	3	
_	-	109	13.59	u	8	4470	u u	4	
	C	44	5.46	1.56	8	3500	D16	5-1	
	"	25	3.18	"	8	2040	"	5-2	

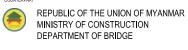
MAF	RKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGH (kg		WEIGHT (kg)	REM	IARKS
ВН	1	D22	5910	4	3.04		17.97	72	П	(AVE
	2-1		2290	2	"		6.96	14	L.	
	2-2	"	3030	2	"		9.21	18	J	
	3	"	4370	4	"		13.28	53	•	(AVE
	4-1	D16	3500	4	1.56		5.46	22	-	
	4-2		1940	4	"		3.03	12	"	(AVE
						SUBT	OTAL	191	kg	
					1					
Н	1	D16	2840	68	1.56		4.43	301	П	
	2	"	3040	60	"		4.74	284	"	
	3	"	8290	4	"		12.93	52	G	
						SUBT	OTAL	637	kg	
CA	1-1	D22	9780	258	3.04		29.73	7670	C	
<u> </u>	1-1	"	11480	129	3.04		34.90	4502	٠	
	2-1	"	3830	680	"		11.64	7915	C	
	2-1	-	2250	680	- "		6.84	4651	"	
	3-1	"	8530	340	"		25.93	8816	-	(AVE
	3-1	-	4000	340	"		12.16	4134		(AVE
	3 - 2	"	9000	148	"		27.36	4049		
	4		9000	140		SUBT		41737	kg	
СВ	1-1	D22	9820	14	3.04		29.85	418	r	
	1-2		11510	7	"		34.99	245	J	
	2-1	"	3850	32	"		11.70	374	C	
	2-2		2270	32	"		6.90	221	"	
	3-1		8570	16	"		26.05	417	-	(AVE
	3-2		4000	16	"		12.16	195	"	
	4		9010	8	"		27.39	219	-	
					•	SUBT	OTAL	2089	kg	
		SI	D345	D32		8476 kg	9			
				D22		58477 -				
			· · · · · ·	D16		2360 "				
				TOTAL	l	69313 ^k	9			

USE MATERIALS

		CONCRETE	ETE BAR	
	COLUMN	σck = 30 N/mm ²	MAIN BAR	SD390
		OCK = 30 N/mm²	OTHERS	SD345

ROJECT NAME







	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA	1-147	27 Nov.2017	
CHECKED BY	T. HAYAKAWA	平り知が	28 Nov.2017	
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017	

BAR ARRANGEMENT OF P19 FOOTING (1) S=1:100 **SECTION** DETAIL OF PILE CAP S=1:60 1 - 1 15964.4 14764.4 F 17 D32 1882.2 220 200 205 275 4@200 200 576.6 90 260 150 150 =800 160 180 F₁₃ D32 F13 D32 F₁₅ D32 (F₁₅ D32 (F21) F22 D16 F 2 D51 F9 D51 F22 D16 F23 D16 F23 D16 MECHANICAL JOINT F1 D51 F2 D51 F 3 D51 =450 =450 18@150=2700 18@150=2700 LONGITUDIAL 14764.4 **SECTION** 2 - 2 **DETAIL OF CONNECTION BETWEEN** 10173.2 STEEL PIPE SHEET PILE AND FOOTING 4000 MARKING DIAGRAM F₁₇ D₃₂ F₁₉ D₃₂ D22 F°1 D22 F21 D16 F21 F22 D16 F21 D16 F₂₄ D16 2 F23 D16 F23 D16 F23 D16 F 3 D51 F 9 D51 Note) == : MECHANICAL JOINT **USE MATERIALS** CONCRETE BAR FOOTING σck = 24 N/mm² SD345

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT

JAPAN INTERNATIONAL jica COOPERATION AGENCY





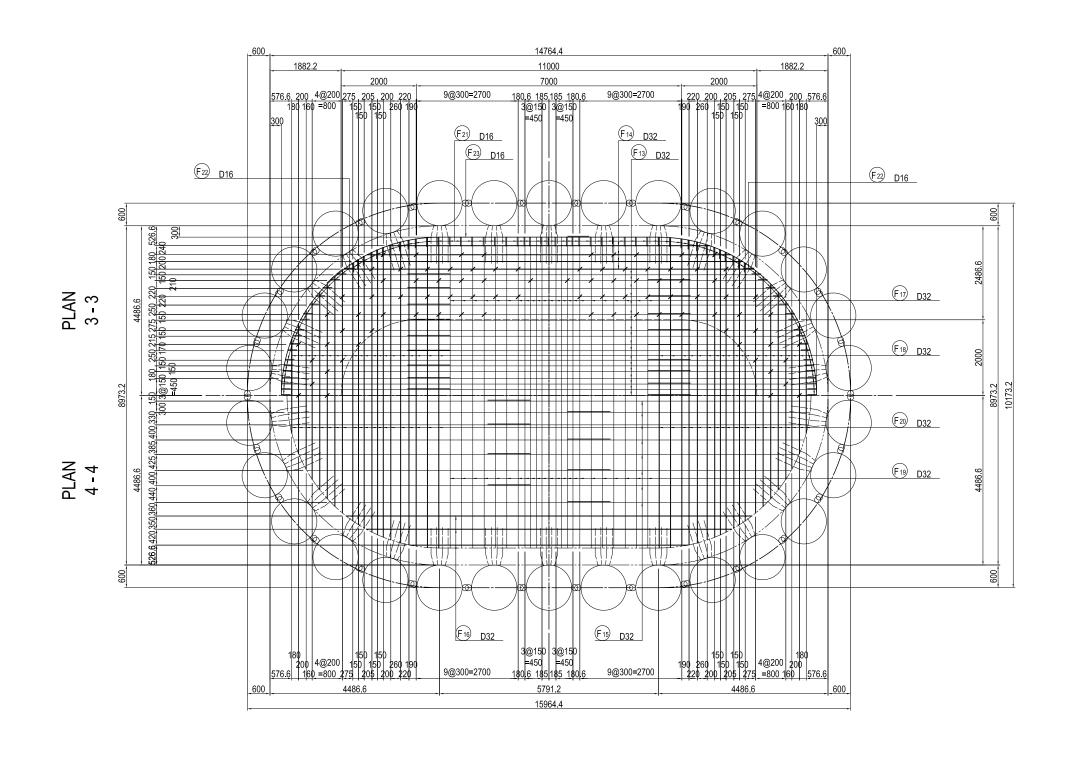
NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

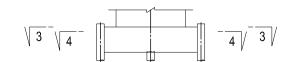
DRAWING TITLE PACKAGE BAR ARRANGEMENT OF P19 FOOTING (1) DWG No.

2

BAR ARRANGEMENT OF P19 FOOTING (2) S=1:100



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR	
FOOTING	σck = 24 N/mm ²	SD345	

ECT NAME

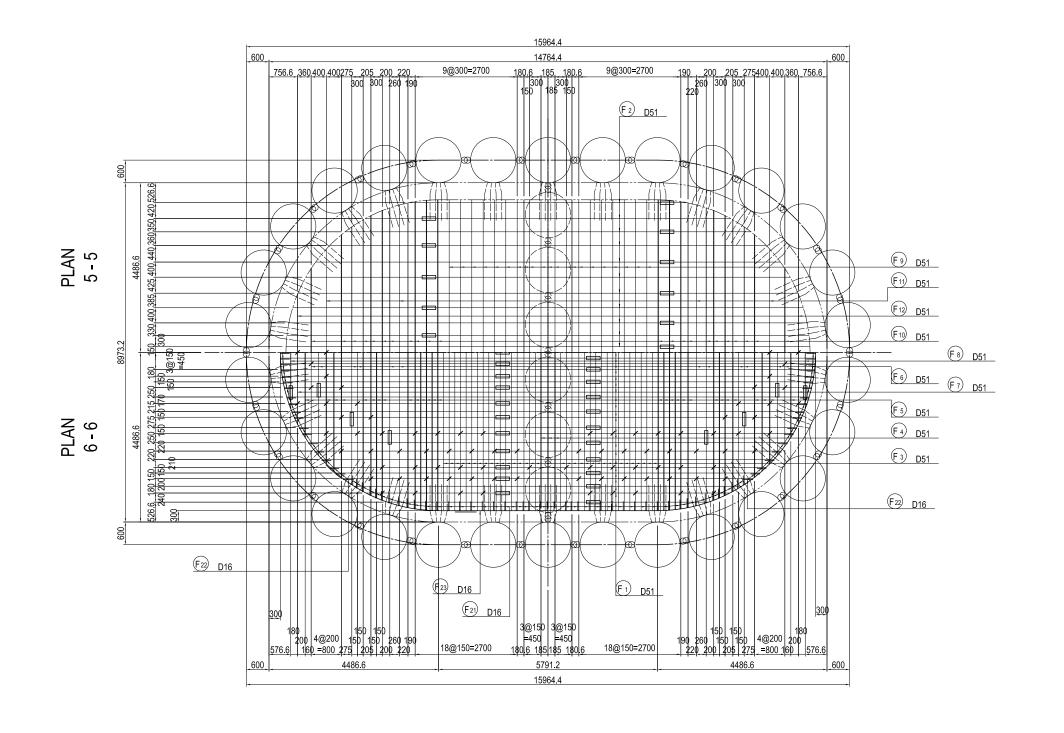
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY



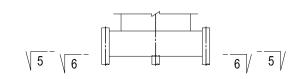
JICA STUDY TEAM	
	NIPPON KOEI CO., LTD.
W S	ORIENTAL CONSULTANTS GLOBAL CO., LTD.
OC GLOBAL	METROPOLITAN EXPRESSWAY COMPANY LIMITED
\simeq	CHODAI CO.,LTD.
CHODAI	NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

BAR ARRANGEMENT OF P19 FOOTING (3) S=1:100



MARKING DIAGRAM



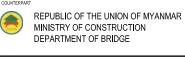
USE MATERIALS

Note) == : MECHANICAL JOINT

	CONCRETE	BAR
FOOTING	σck = 24 N/mm ²	SD345

CT NAME





ı	JICA STUDY TEAM	
ı		NIPPON KOEI CO., LTD.
ı	W	ORIENTAL CONSÚLTANTS GLOBAL CO., LTD.
ı	OC GLOBAL	METROPOLITAN EXPRESSWAY COMPANY LIMITED
ı	≈ 0	CHODAI CO.,LTD.
ı	CHODAI	NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平竹知杯	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

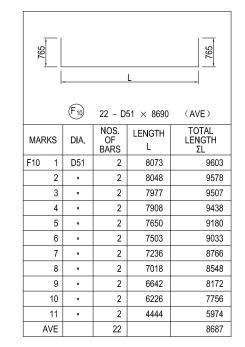
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 FOOTING (3)	2
	DWG No.
	P2-SB-2520

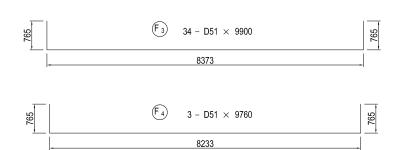
BAR ARRANGEMENT OF P19 FOOTING (4) S=1:100

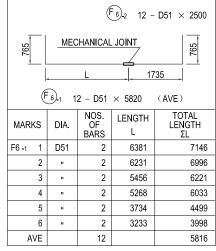


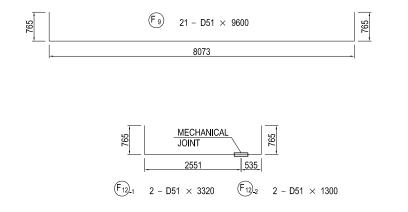
765	-	,		L	765
		(F_5)	28 – D	51 × 8930	(AVE)
MARKS	3	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5	1	D51	2	8373	9903
	2	"	2	8366	9896
	3	u	2	8349	9879
	4	u	2	8320	9850
	5	"	2	8281	9811
	6	"	2	8215	9745
	7	"	2	7825	9355
	8	u u	2	7704	9234
	9	"	2	7569	9099
1	0	"	2	7361	8891
1	1	u	2	6610	8140
1	2	"	2	6278	7808
1	3	"	2	5901	7431
1	4	"	2	4502	6032
AV	E		28		8934

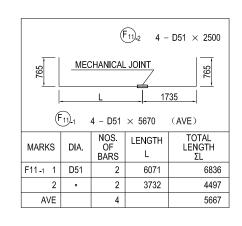
765				_MECHANICAL	JOINT				765
			L1		_		L	2	
	(F ₂) ₁	22 – D	951 × 9940	(AVE)		(F ₂) ₂	22 – D	51 × 3640	(AVE)
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1 1	D51	2	10079	10844	F2 -2 1	D51	2	3779	4544
2	"	2	10057	10822	2	"	2	3757	4522
3	"	2	10006	10771	3	"	2	3706	4471
4	"	2	9906	10671	4	"	2	3606	4371
5	"	2	9766	10531	5	"	2	3466	4231
6	"	2	9558	10323	6	"	2	3258	4023
7	"	2	9299	10064	7	"	2	2999	3764
8	"	2	8924	9689	8	"	2	2624	3389
9	"	2	8519	9284	9	"	2	2219	2984
10	"	2	7985	8750	10	"	2	1685	2450
11	"	2	6828	7593	11	"	2	528	1293
AVE		22		9940	AVE		22		3640



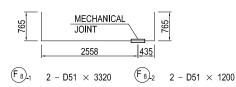








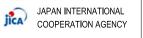
765	MECHANIC/ JOINT	AL 292
	2967	835
(F ₇)	1 2 - D51 × 3730	F ₇ - ₂ 2 - D51 × 1600





	CONCRETE	BAR
FOOTING	σck = 24 N/mm ²	SD345

DJECT NAME

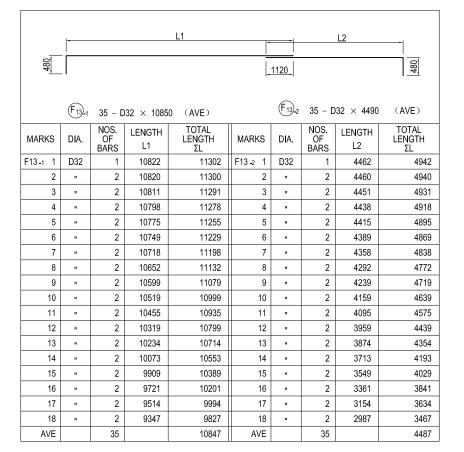






	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA	1-147	27 Nov.2017	
CHECKED BY	T. HAYAKAWA	平り知が	28 Nov.2017	
APPROVED BY	Y SANO	以验 统一,	29 Nov 2017	

BAR ARRANGEMENT OF P19 FOOTING (5) S=1:100



	ŀ			L	
480					480
		(F ₁₈)	40 - D	32 × 7680	(AVE)
MAR	RKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F18	1	D32	2	8373	9333
	2		2	8349	9309
	3		2	8281	9241
	4		2	8215	9175
	5		2	8116	9076
	6		2	7966	8926
	7	"	2	7825	8785
	8		2	7704	8664
	9	"	2	7569	8529
	10	"	2	7361	8321
	11	"	2	7191	8151
	12		2	7003	7963
	13	"	2	6610	7570
	14	"	2	6278	7238
	15	=	2	5901	6861
	16		2	5469	6429
	17	"	2	4968	5928
	18		2	4502	5462
	19	=	2	3802	4762
	20		2	2993	3953
-	ΑVE		40		7684

480				L1	-	1120		L2	480
	F ₁₅ ,	16 – D)32 × 8650	(AVE)		$\overline{(F_{15})}_{2}$	16 – D	32 × 6530	(AVE)
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F15 ₋₁ 1	D32	2	8549	9029	F15 -2 1	D32	2	6429	6909
2	"	2	8527	9007	2		2	6407	6887
3	"	2	8476	8956	3		2	6356	6836
4	"	2	8376	8856	4		2	6256	6736
5	"	2	8236	8716	5		2	6116	6596
6	"	2	8028	8508	6		2	5908	6388
7	"	2	7769	8249	7	"	2	5649	6129
8	ıı .	2	7394	7874	8	"	2	5274	5754
AVE		16		8649	AVE		16		6529

 $6 - D32 \times 10220$ (AVE)

10738

9671

7356

TOTAL LENGTH ΣL

11698

10631

8316

10215

NOS. LENGTH OF BARS L

2

2

2

MARKS

F16 1 D32

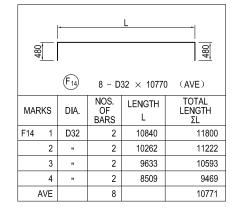
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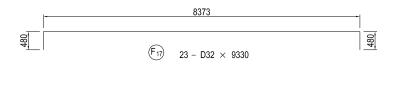
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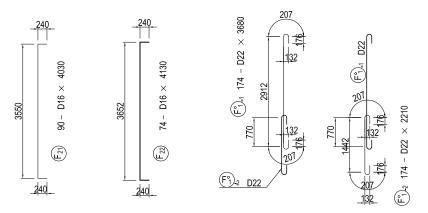
AVE

	_			
"	2	5649	6129	
"	2	5274	5754	
	16		6529	
•				

480			<u>L</u>	480
	(F ₂₀)	40 - D	32 × 7270	(AVE)
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F20 1	D32	2	8073	9033
2	"	2	8048	9008
3	"	2	7977	8937
4	"	2	7909	8869
5		2	7806	8766
6		2	7650	8610
7	"	2	7503	8463
8	"	2	7377	8337
9		2	7236	8196
10		2	7018	7978
11	"	2	6839	7799
12	"	2	6641	7601
13	"	2	6226	7186
14	"	2	5872	6832
15	"	2	5467	6427
16	"	2	4998	5958
17	"	2	4444	5404
18	"	2	3916	4876
19	"	2	3086	4046
20	"	2	2006	2966
AVE		40		7265







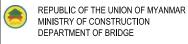


USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm ²	SD345

ROJECT NAME



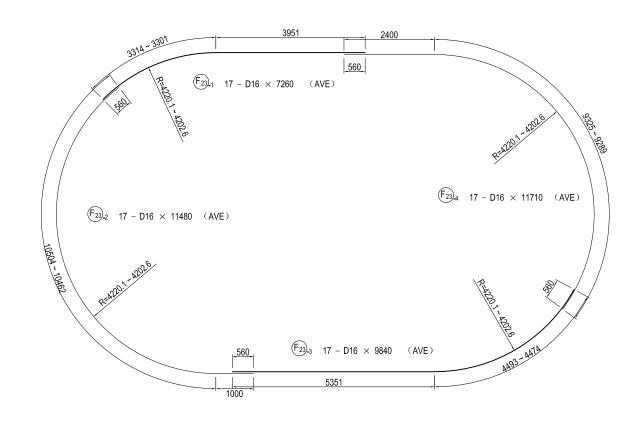


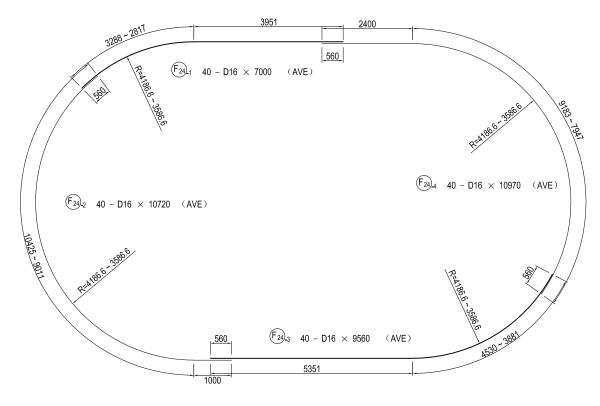


	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA	1-147	27 Nov.2017	
CHECKED BY	T. HAYAKAWA	斗り知が	28 Nov.2017	
APPROVED BY	Y. SANO	试验 施一,	29 Nov.2017	

DRAWING TITLE	PACKAGE
	2
BAR ARRANGEMENT OF P19 FOOTING (5)	DWG No.
· ,	P2-SB-2522

BAR ARRANGEMENT OF P19 FOOTING (6) S=1:100





Note) The joint position of the reinfocing bar is rotated 180 degrees for each step arranged.

BAR SCHEDULE

MA	RKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA.	WEIGHT (kg)	REM	MARKS
F	1-1	D51	8270	43	15.9	131.49	5654	-	(43) (AVE)
	1-2		5870	43	"	93.33	4013	_	(AVE)
	2-1	"	9940	22		158.05	3477	-	(22) (AVE)
	2-2		3640	22	"	57.88	1273	_	(AVE)
	3		9900	34	"	157.41	5352		(/
	4		9760	3		155.18	466		
	5		8930	28		141.99	3976		(AVE)
	6-1	"	5820	12	"	92.54	1110		(12) (AVE)
	6-2	"	2500	12	"	39.75	477	_	(112)
	7-1		3730	2		59.31	119		(2)
	7-2		1600	2	,,	25.44	51	_	
	8-1	,	3320	2	,,	52.79	106		(2)
	8-2	,	1200	2	"	19.08	38	_	
	9	"	9600	21	"	152.64	3205		
	10		8690	22	"	138.17	3040		(A) (E)
		-	5670	4		90.15	361		(AVE)
	11-1	-	2500	4	"	39.75	159		(AVE)
	11-2		3320	2			106	_	(2)
	12-1	"	1300	2	"	52.79 20.67	41		
	12-2								
	13-1	D32	10850	35	6.23	67.60	2366	_	(AVE)
	13-2	"	4490	35	"	27.97	979	<u> </u>	(AVE)
	14	"	10770	8	"	67.10	537		(AVE)
	15-1	"	8650	16	"	53.89	862	_	(AVE)
	15-2	"	6530	16	"	40.68	651		(AVE)
	16	"	10220	6	"	63.67	382		(AVE)
	17	"	9330	23	"	58.13	1337	"	
	18	"	7680	40	"	47.85	1914	"	(AVE)
	19	"	9030	23	"	56.26	1294	"	
	20	"	7270	40	"	45.29	1812	"	(AVE)
	21	D16	4030	90	1.56	6.29	566	[
	22	"	4130	74	"	6.44	477	"	
	23-1	"	7260	17	"	11.33	193	_	(AVE)
	23-2	"	11480	17	"	17.91	304	_	(AVE)
	23-3	"	9840	17	"	15.35	261	_	(AVE)
	23-4	"	11710	17	"	18.27	311	7	(AVE)
	24-1	"	7000	40	"	10.92	437	_	(AVE)
	24-2	"	10720	40	"	16.72	669	((AVE)
	24 - 3	"	9560	40	"	14.91	596	ر ا	(AVE)
	24-4		10970	40	"	17.11	684	$\overline{}$	(AVE)
						SUBTOTAL	49656	kg	
F°	1-1	D22	3680	174	3.04	11.19	1947	C	
	1-2		2210	174	"	6.72	1169	"	
						SUBTOTAL	3116	kg	
						(1	MECHANICAL	. JOIN	IT)
				D51	:	33024 kg	(87)		,
				D32		12134 "	()		
				D22		3116 "			
				D16		4498 "			
				D 10		, 100			
				TOTAL		52772 kg	(87)		
				IOIAL	•	JE116	(07)		

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm ²	SD345

JECT NAME

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT JAPAN INTERNATIONAL
COOPERATION AGENCY





	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

 DRAWING TITLE
 PACKAGE

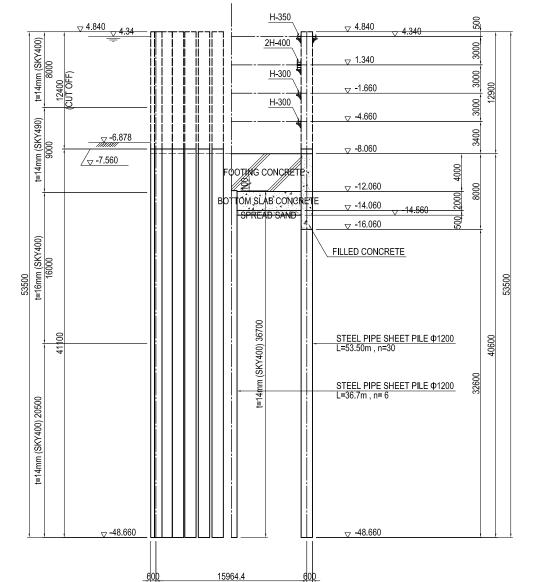
 2
 DWG No.

 P2-SB-2523

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P19 PIER

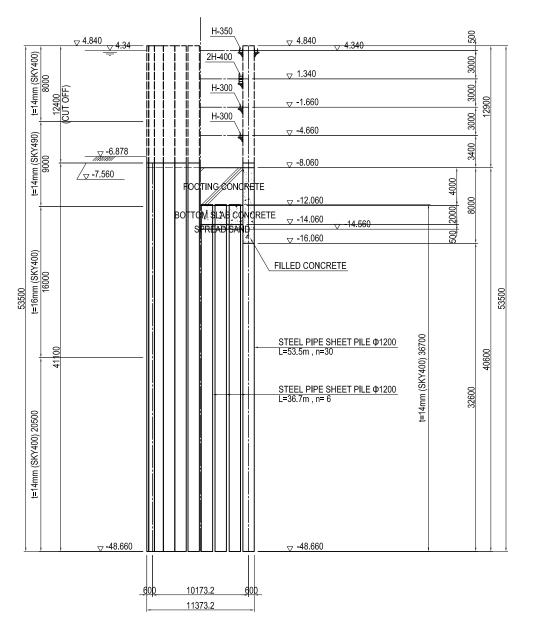
FRONT ELEVATION

2 - 2 1 - 1



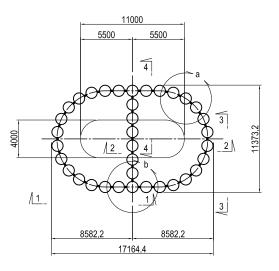
SIDE ELEVATION

4 - 4 3 - 3

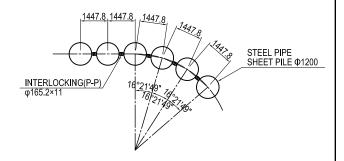


PLAN

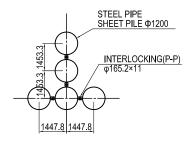
S=1:400



DETAIL a S=1:200



DETAIL b S=1:200



USE MATERIALS

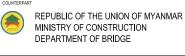
	•	
	CONCRETE	BAR
FOOTING	σck = 24 N/mm ²	SD345

Note: Temporary support can be used for reference only.

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT



17164.4





	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA	1-147	27 Nov.2017	
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017	
APPROVED BY	Y. SANO	饭鸭 施一,	29 Nov.2017	

DRAWING TITLE GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P19 PIER

DETAIL OF STEEL PIPE SHEET PILE OF P19 PIER (1) SIDE ELEVATION Sv=1:100 Sh=1:200 LOWER END OF COFFERDAM PART TO BE OUT IN THE WATER TO BE OUT POSITION OF INTER LOCKING) PRECUT POSITION OF INTER LOCKING) CROSS SECTION S=1:200 TYPE A (TYPEB) REINFORCEMENT BAND PL-300×9 INTERLOCKING(P-P) φ165.2×11 PERIMETER FIELD WELD PAD EYES PAD EYES 2 PAD EYES 1 16800(15800) 34400(35400) 1ST STEEL PIPE SHEET PILE 2ND STEEL PIPE SHEET PILE 35000(36000) 18500(17500) t=14mm (SKY400) 8000 t=14mm (SKY490) 9000 t=16mm (SKY400) 16000 t=14mm (SKY400) 20500 LOWER END OF COFFERDAM PART TO BE CUT IN THE WATER TO RECUT POSITION OF INTER LOCKING) PRECUT POSITION OF INTER LOCKING CROSS SECTION S=1:200 TYPE C (TYPE D) REINFORCEMENT BAND PL-300×9 12400 41100 30° 8°10'55" INTERLOCKING(P-P) PERIMETER FIELD WELD φ165.2×11 PAD EYES 30° PAD EYES 1 PAD EYES 2 3000(2000) TYPE C' 5400(34400) 15800(16800) 1400 2ND STEEL PIPE SHEET PILE 1ST STEEL PIPE SHEET PILE (TYPE D') 6000(35000) 17500(18500) t=14mm (SKY400) 8000 t=14mm (SKY490) 9000 t=16mm (SKY400) 16000 t=14mm (SKY400) 20500 STEEL PIPE SHEET PILE TYPE AND POSITION DETAIL OF EYES S=1:10 INTERLOCKING(P-P) φ165.2×11 PAD EYES (1) PL-200x150x22 (SM490A) PAD EYES (2) PL-300x250x22 (SM490A) 150 15 60 150 300 Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT JAPAN INTERNATIONAL COOPERATION AGENCY

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



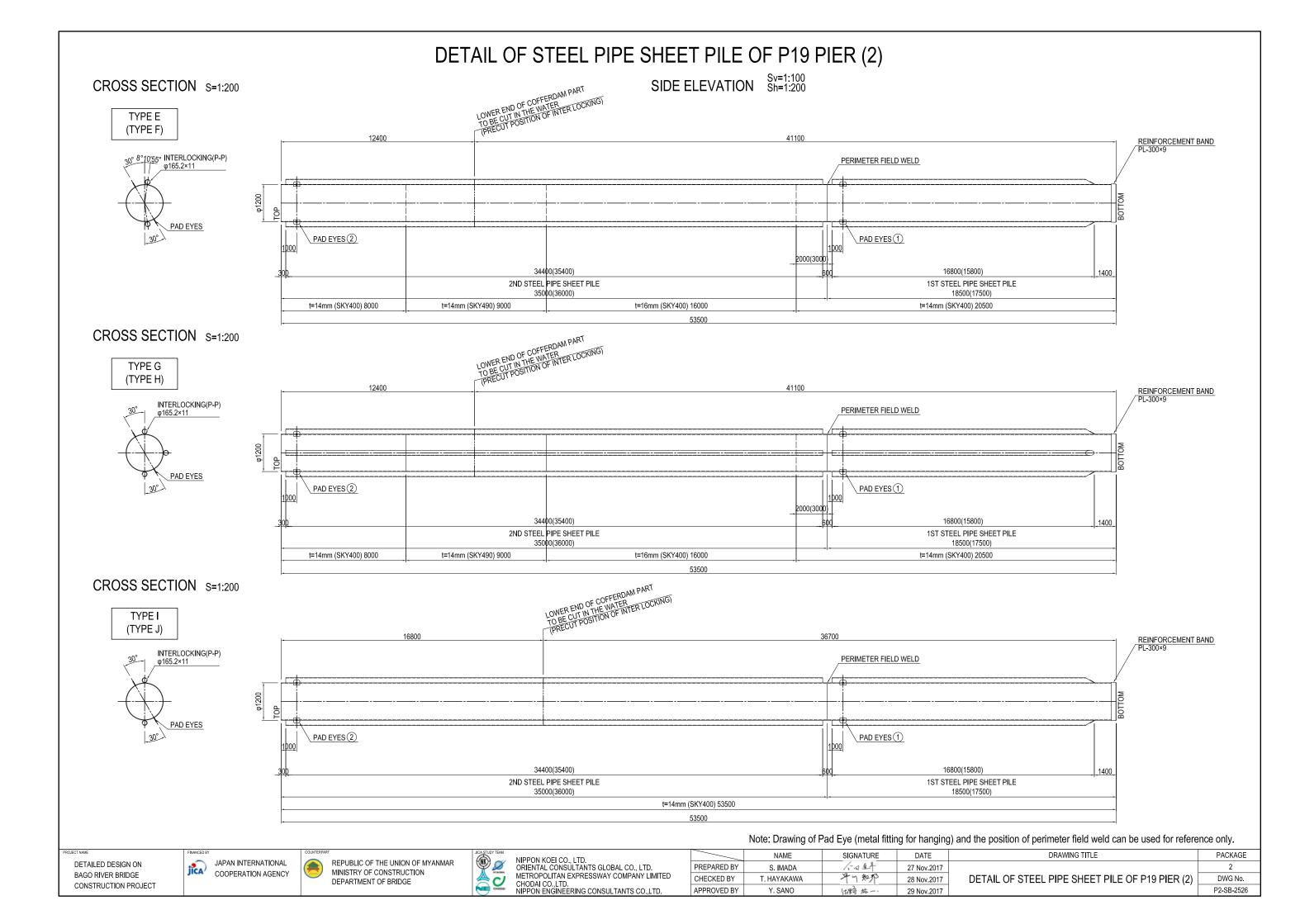
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平り知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

DETAIL OF STEEL PIPE SHEET PILE OF P19 PIER (1)

DWG No.
P2-SB-2525

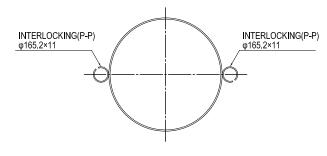
PACKAGE

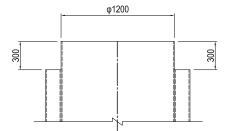
DRAWING TITLE



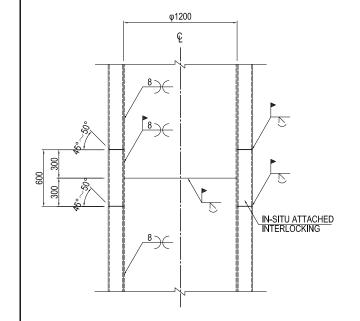
DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P19 PIER

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



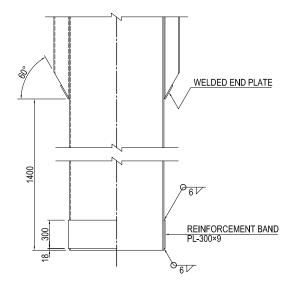


DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40

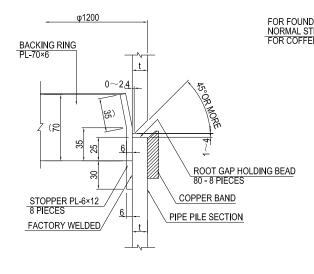


DETAIL a

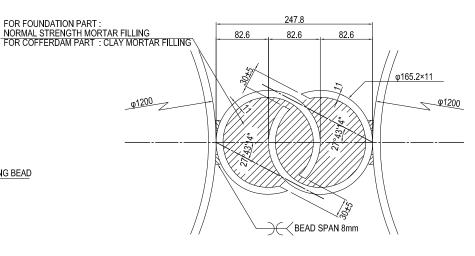
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



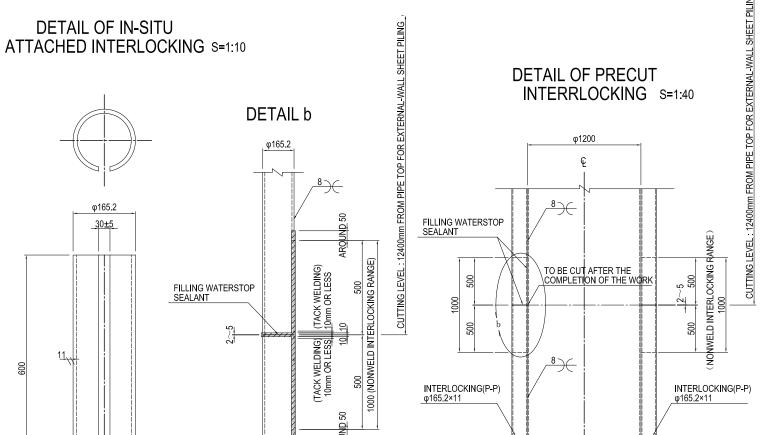
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4

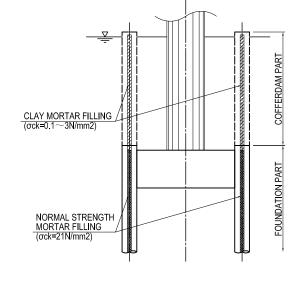


DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6

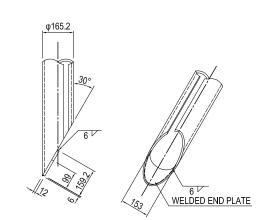


TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



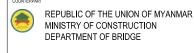


DETAIL OF INTERRLOCKING TOE S=1:20



DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT

JAPAN INTERNATIONAL jica COOPERATION AGENCY





	NAME	SIGNATURE	DATE	Г
PREPARED BY	S. IMADA	1-147	27 Nov.2017	Г
CHECKED BY	T. HAYAKAWA	平り知が	28 Nov.2017	
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017	

DRAWING TITLE	PACKAGE
DETAIL OF INTERLOCKING OF STEEL PIPE	2
	DWG No.
SHEET PILE OF P19 PIER	P2-SB-2527

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P19 PIER

√3

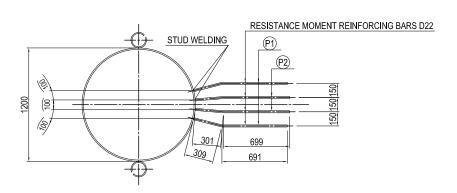
\<u>_4</u>

PLAN S=1:200

17164.4

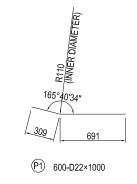
CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

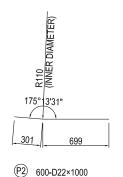
3 - 3 CROSS SECTION (RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)

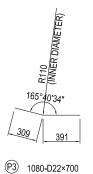


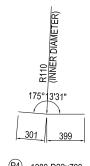
4 - 4 CROSS SECTION

FABRICATION OF REINFORCING BARS S=1:40









1 - 1 CROSS SECTION

D22×700

2

D22×1000

2

REINFORCING BARS OF RESISTANCE MOMENT 5×4-D22×L1000

2 - 2 CROSS SECTION

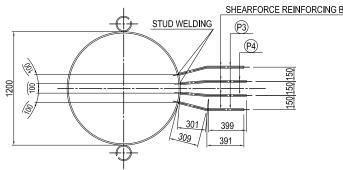
φ1200

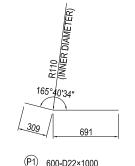
375 ,150,1\$0,150, 375

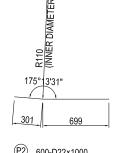
REINFORCING BARS OF RESISTANCE MOMENT 5×4-D22×L1000

REINFORCING BARS OF SHEARFORCE 18×4-D22×L700

(SHEARFORCE REINFORCING BARS CONNECTION PART) SHEARFORCE REINFORCING BARS D22 (P3)







175°1	3'31"
301	399
P4) 1080	-D22×700

TABLE OF REINFORCING BARS

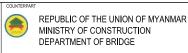
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

3

4

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1)	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
(P2)	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P 3	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	_
P4	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
				D22	8248.8	kg		
		•	•	TOTAL WEIGHT	8248.8	kg		







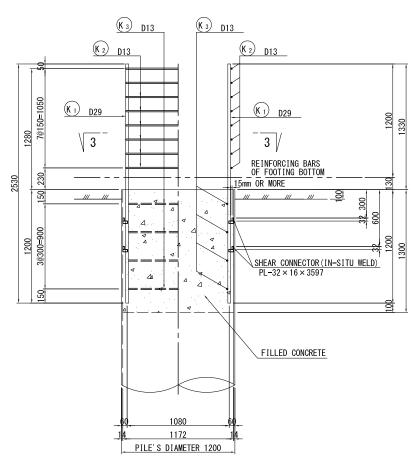
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

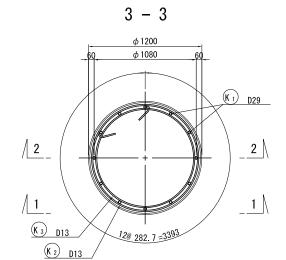
DRAWING TITLE	PACKAGE
DETAIL OF CONNECTION BETWEEN STEEL PIPE	2
	DWG No.
SHEET PILE AND FOOTING OF P19 PIER	P2-SB-2528

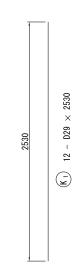
DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P19 PIER S=1:40

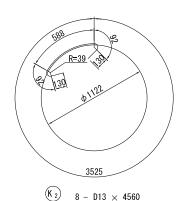
DETAIL OF PILE TOP

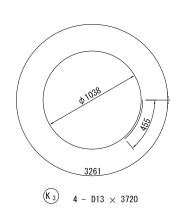
1 - 1 2 - 2







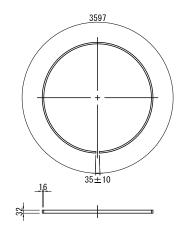


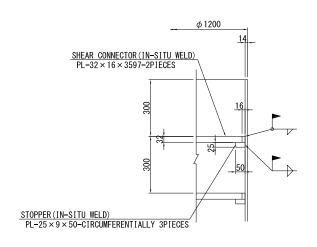


DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH

SETTING IN THE FIELD S=1:20





MATERIAL LIST

III//I LIOI							
SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
TOP ACCOMPANYIN	NG ITEMS						
PL-32*16	3597	2	4. 019	14. 456	28. 9	SS400	SHEAR CONNECTOR
PL-25*9	50	6	1. 766	0.088	0. 5	SS400	STOPPER
ORCEMENT							
D29	2530	12	5.04	12. 75	153	SD345	
D13	4560	8	0.995	4. 54	36. 3	SD345	0
D13	3720	4	0.995	3. 70	14. 8	SD345	0
					204		
FILLED CONCRETE (σ ck = 24 N/mm ²) V = 1/4 × π × 1.172 ² × 1.300 = 1.402 m ³							
	TOP ACCOMPANYIN PL-32*16 PL-25*9 ORCEMENT D29 D13 D13	SECTION SIZE	SECTION SIZE	SECTION SIZE LENGTH (mm) NOS. UNIT (kg/m)	SECTION SIZE LENGTH (mm) NOS. UNIT WEIGHT/EA. (kg/m)	SECTION SIZE LENGTH (mm) NOS. OF (kg/m) WEIGHT/EA. (kg) WEIGHT (kg/m)	SECTION SIZE LENGTH (mm) NOS. OF BARS WEIGHT (kg/m) WEIGHT/EA. (kg) WEIGHT (kg/m) MATERIAL

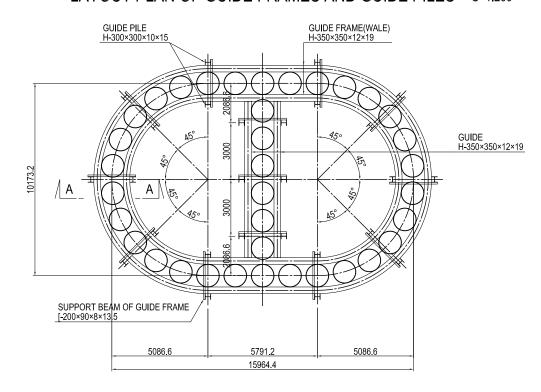
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		6
PILE TOP	SS400	TOTAL	kg	29.4	176. 4
		D29	kg	153	918
REINFORCEMENT	SD345	D13	kg	51	307
		TOTAL	kg	204	1225
FILLED CONCRETE	σck = 24	↓N/mm²	m ³	1. 402	8. 4



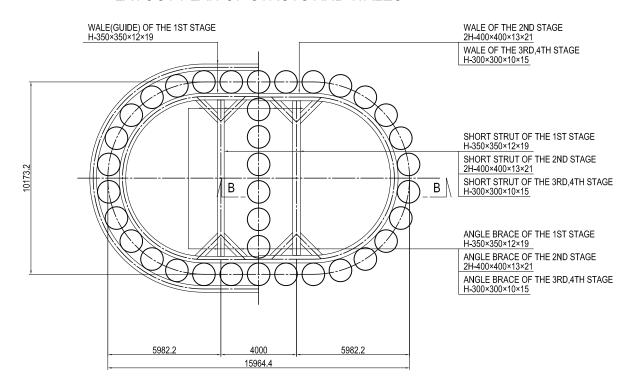
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知野	28 Nov.2017
APPROVED BY	Y SANO	17.83 栋一,	29 Nov 2017

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P19 PIER (1)

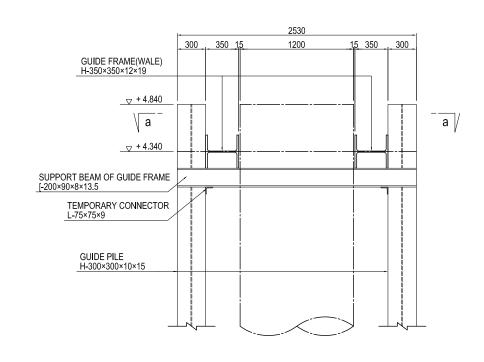
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200

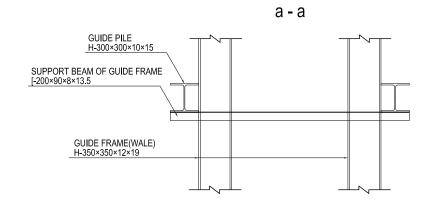


LAYOUT PLAN OF STRUTS AND WALES \$=1:200



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





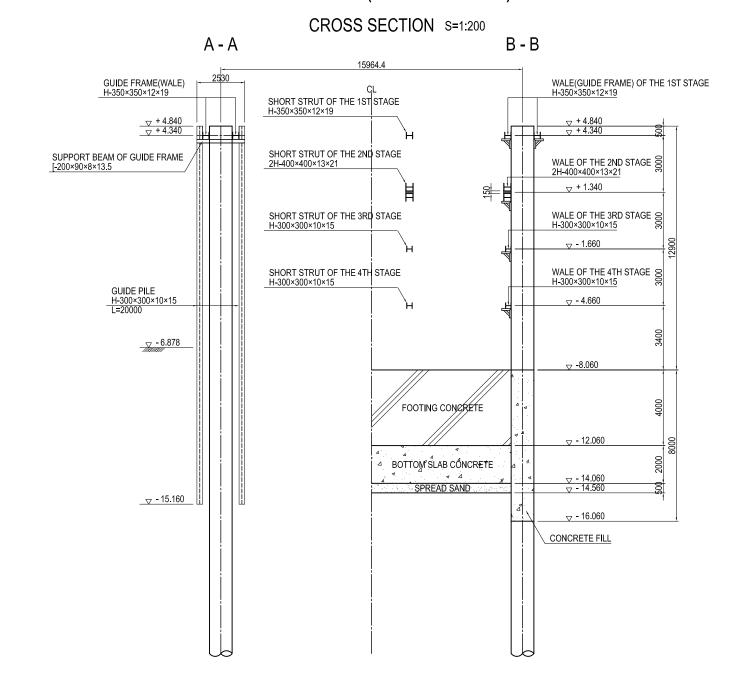




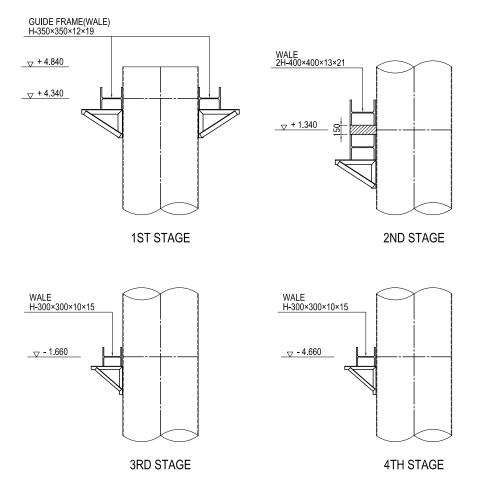


	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平り知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

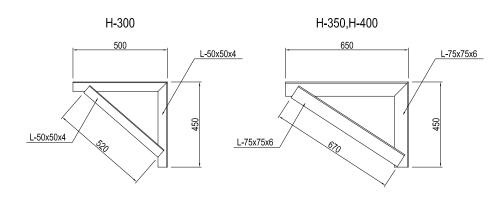
(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P19 PIER (2)



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20



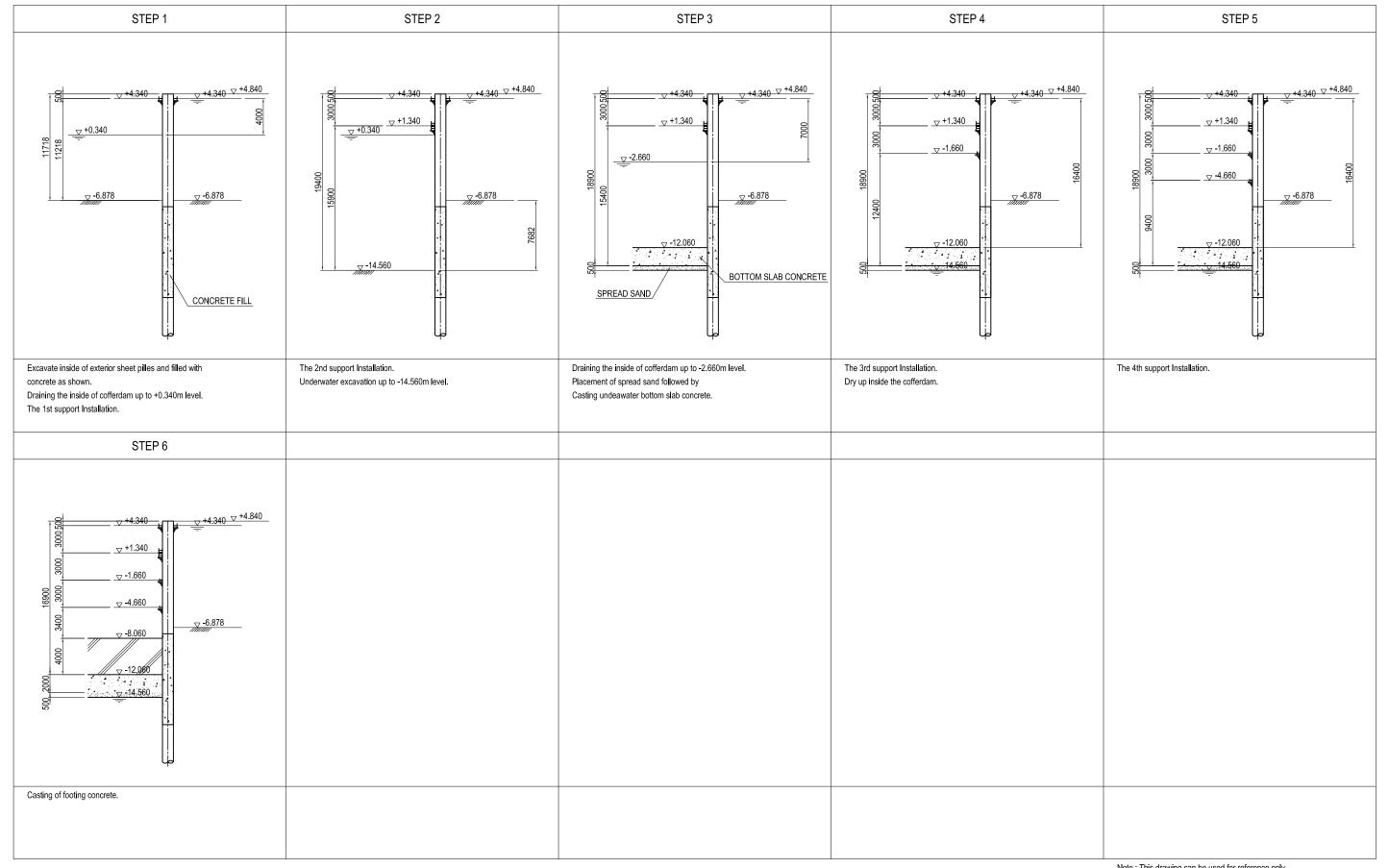
jica





	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平川知が	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

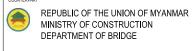
(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P19 PIER S=1:400



Note: This drawing can be used for reference only.

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT







	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	1-147	27 Nov.2017
CHECKED BY	T. HAYAKAWA	平り知か	28 Nov.2017
APPROVED BY	Y. SANO	比跨 施一,	29 Nov.2017

DRAWING TITLE (REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P19 PIER