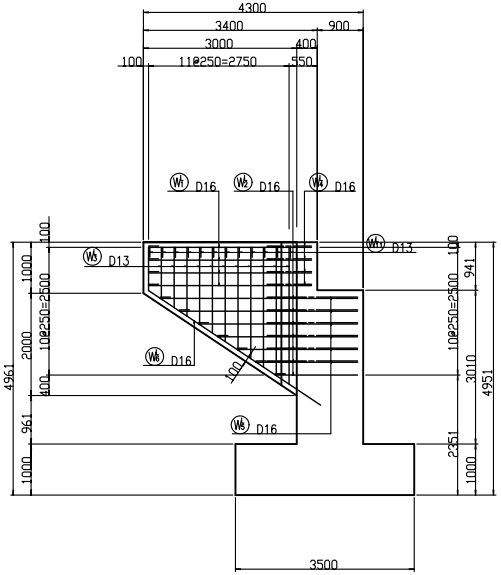
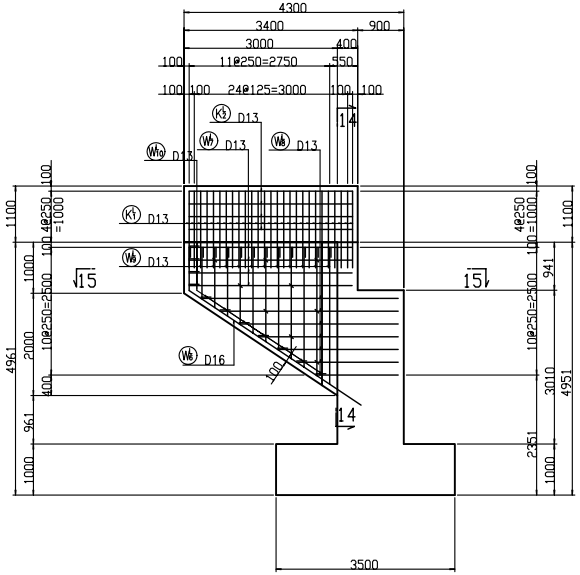
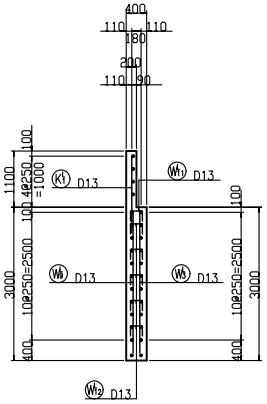
BAR ARRANGEMENT OF ABUTMENT A1,A2 (5) SCALE 1 : 50



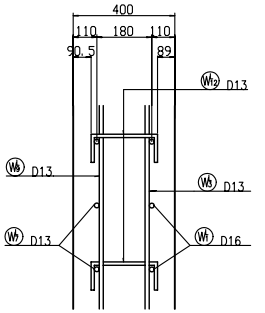
12 - 12



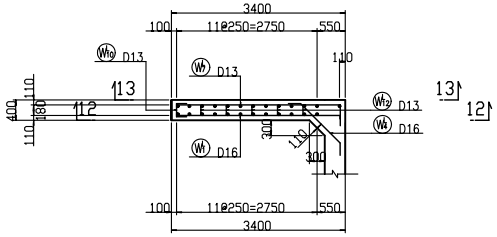
13 - 13



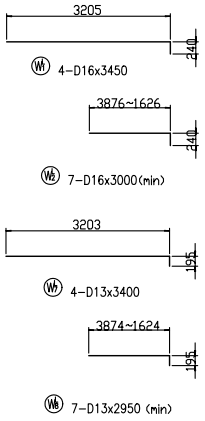
14 - 14

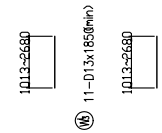


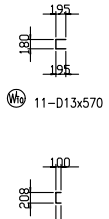
DETAIL OF WING WALL

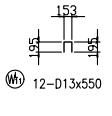


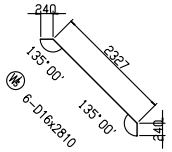
15 - 15

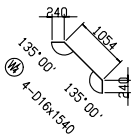


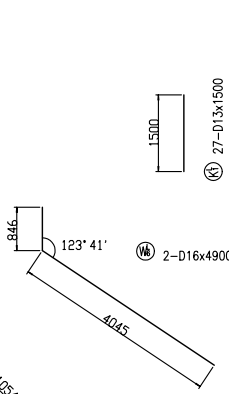


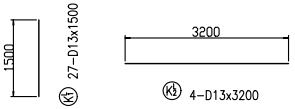


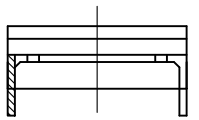










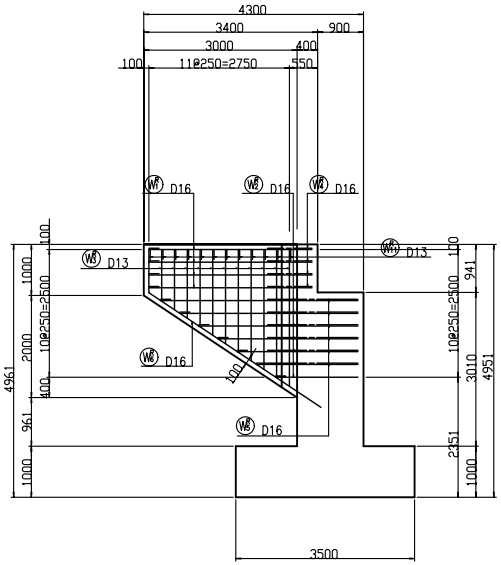


KEY PLAN

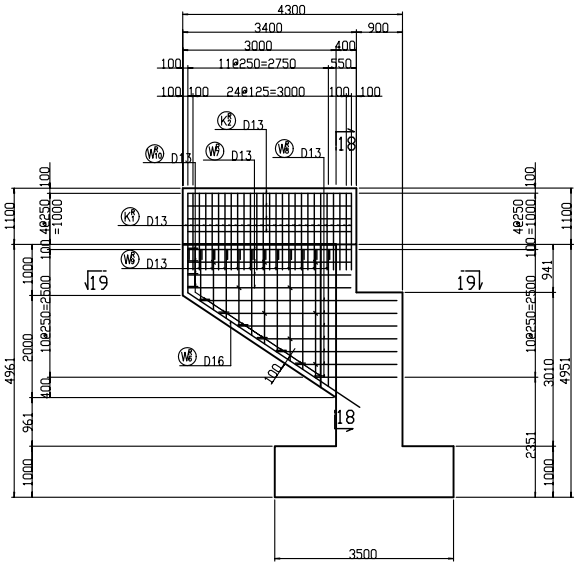
Note
All dimensions are shown in millimeter unless otherwise indicated.

GOVERNMENT OF THE REPUBLIC OF VANUATU PUBLIC WORKS DEPARTMENT	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PROJECT : BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF BRIDGES ON THE RING ROAD IN THE EFATE ISLAND	TITLE : BAR ARRANGEMENT OF ABUTMENT A1,A2 (5) (TEOUMA BRIDGE)	DRAWING No: 16 Rv.

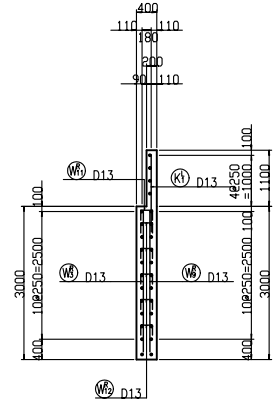
BAR ARRANGEMENT OF ABUTMENT A1,A2 (6) SCALE 1 : 50



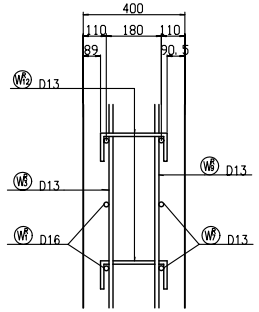
16 - 16



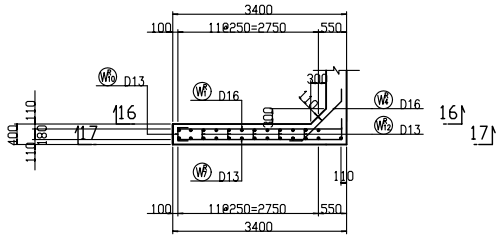
17 - 17



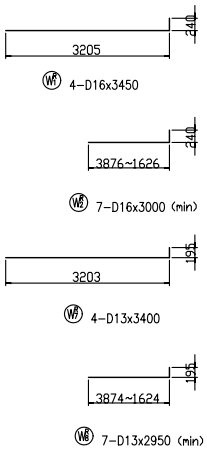
18 - 18

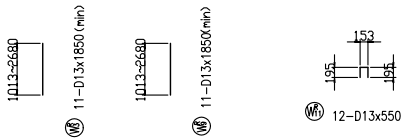


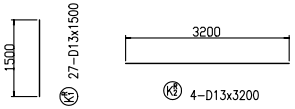
DETAIL OF WING WALL

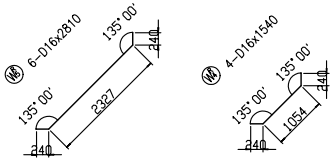


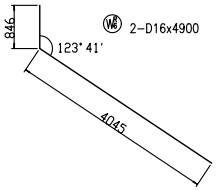
19 - 19

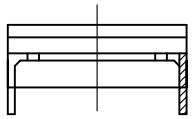












KEY PLAN

Note
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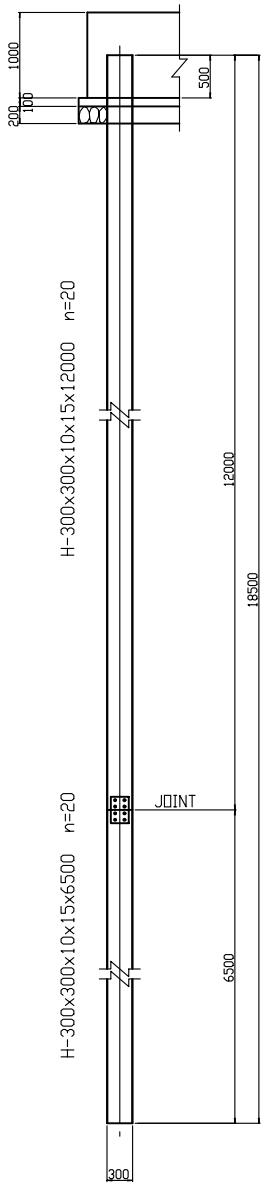
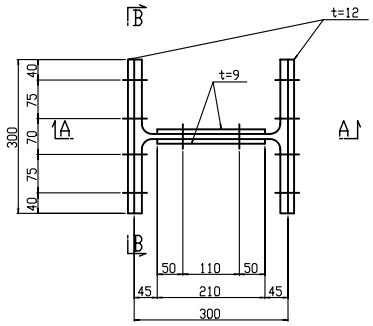
GOVERNMENT OF THE REPUBLIC OF VANUATU PUBLIC WORKS DEPARTMENT	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PROJECT : BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF BRIDGES ON THE RING ROAD IN THE EFATE ISLAND	TITLE : BAR ARRANGEMENT OF ABUTMENT A1,A2 (6) (TEOUMA BRIDGE)	DRAWING No: 17 Rv.

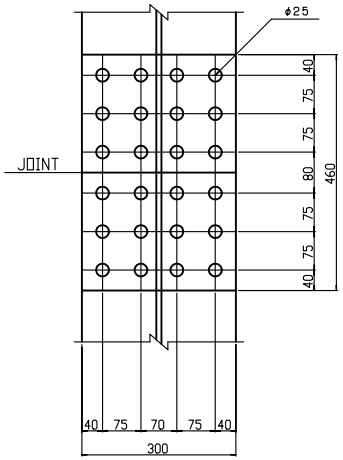
DETAIL OF FOUNDATION PILE



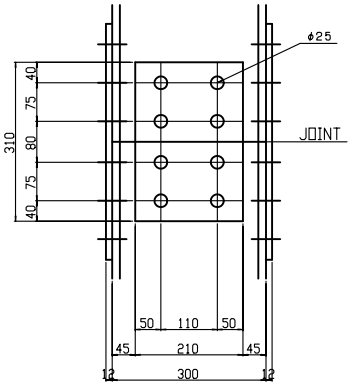
SIDE ELEVATION SCALE 1 : 30



PLAN



B-B



A-A

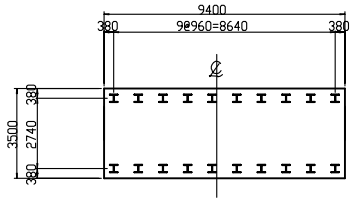
2-PL 300x12x460
2-PL 210x 9x310
56-BN M22x55

DETAIL OF JOINT SCALE 1 : 5

MATERIAL LIST Unit : kg

ITEM	SECTION	LENGTH	NO.	UNIT WT.	WT/ONE	WEIGHT	REMARKS
PER ONE PILE							
H	H-300x300x10x15	12000	1	93.00	1116	1116	SS400
H	H-300x300x10x15	6500	1	93.00	605	605	SS400
					TOTAL	1721	
PL	300x12	460	2		13.0	26	SS400
〃	210x 9	310	2		4.6	9	SS400
BN	M22x55		56		0.34	19	SS400
					TOTAL	54	
PER ONE ABUTMENT(20 PILES)							
H	H-300x300x10x15	12000	20	93.00	1116	22320	SS400
H	H-300x300x10x15	6500	20	93.00	605	12090	SS400
					TOTAL	34410	
PL	300x12	460	40		13.0	520	SS400
〃	210x 9	310	40		4.6	184	SS400
BN	M22x55		1120		0.34	381	SS400
					TOTAL	1085	

KEY PLAN SCALE 1 : 100



Note
All dimensions are shown in millimeter unless otherwise indicated.

GOVERNMENT OF THE REPUBLIC OF VANUATU PUBLIC WORKS DEPARTMENT	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PROJECT : BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF BRIDGES ON THE RING ROAD IN THE EFATE ISLAND	TITLE : DETAIL OF FOUNDATION PILE (TEOUMA BRIDGE)	DRAWING No: 18

MATERIAL LIST OF SUBSTRUCTURE A1,A2

LIST OF REINFORCEMENT

MARK	SIZE	LENGTH	NO.	UNIT WT.	WT/ONE	WEIGHT	REMARKS
P1	D13	1600	38	0.995	1.59	60	
2	〃	1600	74	〃	1.59	118	
3	〃	9100	3	〃	9.05	27	
4	〃	9100	3	〃	9.05	27	
5	〃	9110	2	〃	9.06	18	
6	〃	1660	4	〃	1.65	7	
7	〃	630	38	〃	0.63	24	
8	〃	1420	4	〃	1.41	6	
9	〃	590	9	〃	0.59	5	
						292	kg
A1	D16	3950	38	1.56	6.16	234	
2	D19	4000	38	2.25	9.00	342	
3	D13	9510	12	0.995	9.46	114	
4	〃	9510	12	〃	9.46	114	
5	D16	10260	7	1.56	16.01	112	
6	〃	2200	40	〃	3.43	137	
7	〃	1620	40	〃	3.53	101	
8	〃	3950	6	〃	6.16	37	
9	D13	1510	4	0.995	1.50	6	
10	〃	1510	4	〃	1.50	6	
11	〃	1520	45	〃	1.51	68	
						1271	kg
H1	D16	1200	14	1.56	1.87	26	
2	〃	1500	12	〃	2.34	28	
						54	kg
F1	D16	1650	50	1.56	2.57	129	
2	D19	2490	50	2.25	5.60	280	
3	〃	4600	40	〃	10.35	414	
4	〃	2440	10	〃	5.49	55	
5	〃	1000	36	〃	2.25	81	
6	〃	580	4	〃	1.31	5	
7	D13	9100	11	0.995	9.05	100	
8	〃	9100	17	〃	9.05	154	
9	〃	950	18	〃	0.95	17	
10	D19	9100	6	2.25	20.48	123	
11	〃	3810	6	〃	8.57	51	
12	D13	1130	14	0.995	1.12	16	
13	D16	1210	10	1.56	1.89	19	
14	〃	1210	19	〃	1.89	36	
						1480	kg

MARK	SIZE	LENGTH	NO.	UNIT WT.	WT/ONE	WEIGHT	REMARKS
W1	D16	3450	4	1.56	5.38	22	
2	〃	3000	7	〃	4.68	33	min
3	D13	1850	11	0.995	1.84	20	min
4	D16	1540	4	1.56	2.40	10	
5	〃	2810	6	〃	4.38	26	
6	〃	4900	2	〃	7.64	15	
7	D13	3400	4	0.995	3.38	14	
8	〃	2950	7	〃	2.94	21	min
9	〃	1850	11	〃	1.84	20	min
10	〃	570	11	〃	0.57	6	
11	〃	550	12	〃	0.55	7	
12	〃	410	9	〃	0.41	4	
						198	kg
K1	D13	1500	27	0.995	1.49	40	
2	〃	3200	4	〃	3.18	13	
						53	kg
W2	D16	3450	4	1.56	5.38	22	
2	〃	3000	7	〃	4.68	33	min
3	D13	1850	11	0.995	1.84	20	min
4	D16	1540	4	1.56	2.40	10	
5	〃	2810	6	〃	4.38	26	
6	〃	4900	2	〃	7.64	15	
7	D13	3400	4	0.995	3.38	14	
8	〃	2950	7	〃	2.94	21	min
9	〃	1850	11	〃	1.84	20	min
10	〃	570	11	〃	0.57	6	
11	〃	550	12	〃	0.55	7	
12	〃	410	9	〃	0.41	4	
						198	kg
K2	D13	1500	27	0.995	1.49	40	
2	〃	3200	4	〃	3.18	13	
						53	kg

REINFORCEMENT BAR

D19	1351 kg	x2	=	2702	kg
D16	1071 kg	x2	=	2142	kg
D13	1177 kg	x2	=	2354	kg
TOTAL	3599 kg	x2	=	7198	kg

CONCRETE

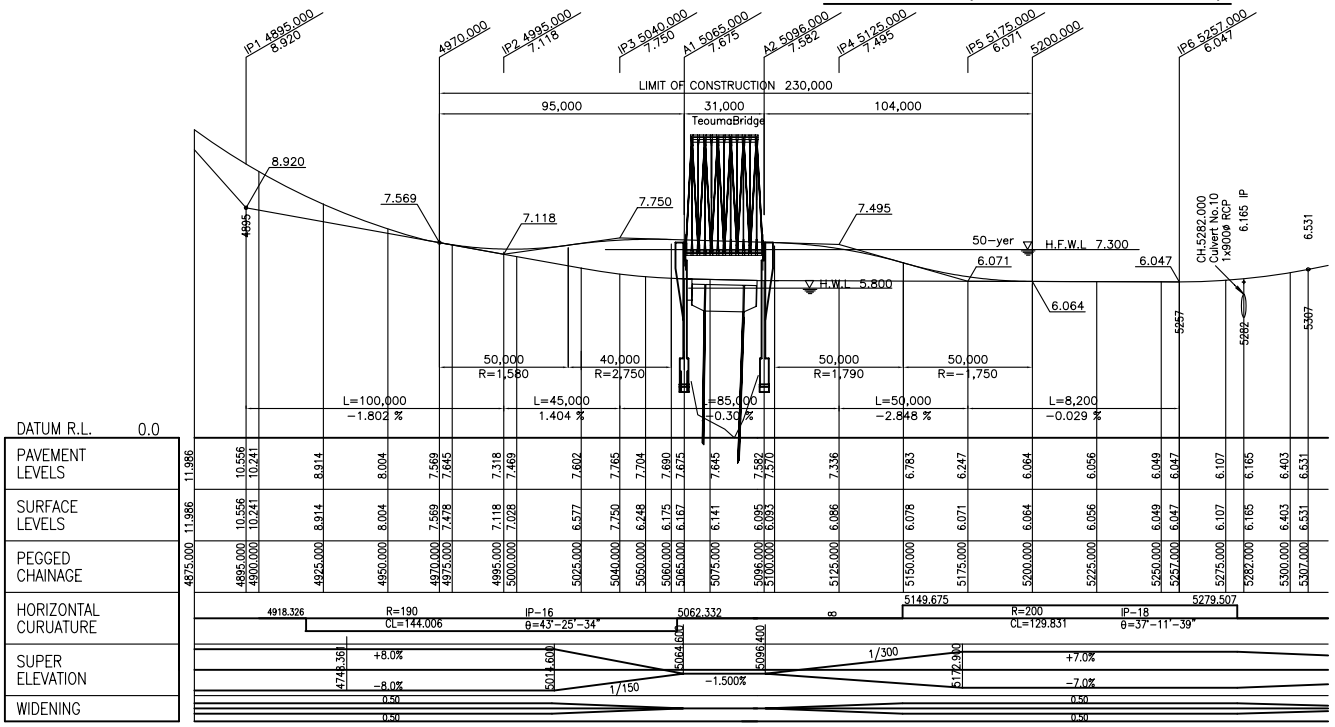
80.2m³ x2 = 160.4m³

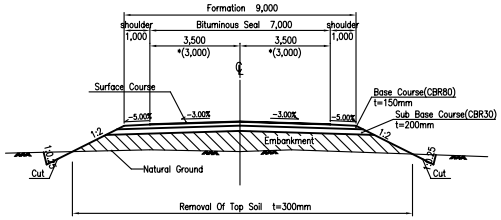
FORM

146.9m² x2 = 293.8m²

GOVERNMENT OF THE REPUBLIC OF VANUATU PUBLIC WORKS DEPARTMENT	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PROJECT : BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF BRIDGES ON THE RING ROAD IN THE EFATE ISLAND	TITLE : MATERIAL LIST OF SUBSTRUCTURE A1,A2 (TEOUMA BRIDGE)	DRAWING No: 19 Rv.

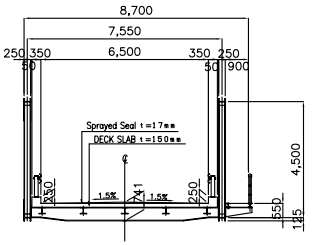
PROFILE (TEOUMA BRIDGE)



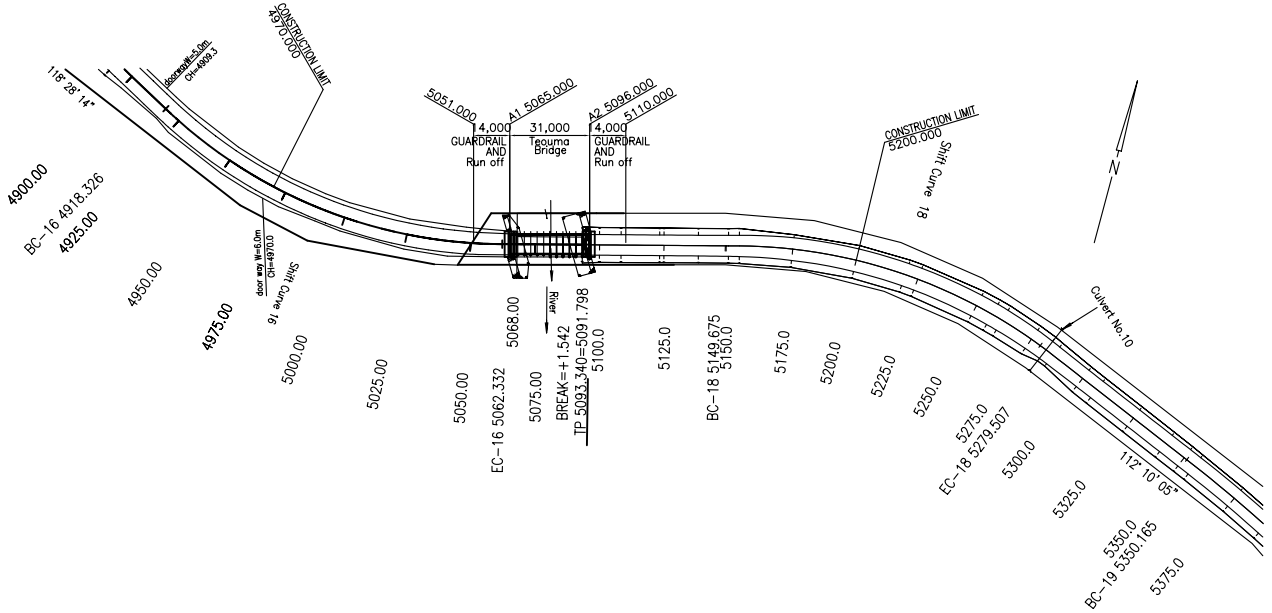


TYPICAL CROSS SECTION

*)CH5065~CH5200



BRIDGE CROSS SECTION



QUANTITY LIST

ITEM	BEGINNING SIDE	ENDIND SIDE	TOTAL
CUT	19.8 m³	65.9 m³	85.7 m³
BANK	757.1 m³	744.2 m³	1501.3 m³

Vertical 2 1 0 2 4 6 8 1:100
Horizontal 20 10 0 20 40 60 80 1:1000
SCALE BEFORE REDUCTION

GOVERNMENT OF THE REPUBLIC OF VANUATU PUBLIC WORKS DEPARTMENT	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PROJECT : BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF BRIDGES ON THE RING ROAD IN THE EFATE ISLAND	TITLE : PROFILE (TEOUMA BRIDGE)	DRAWING No: 20

CROSS SECTION(1) SCALE 1:100

STATION.5025.0

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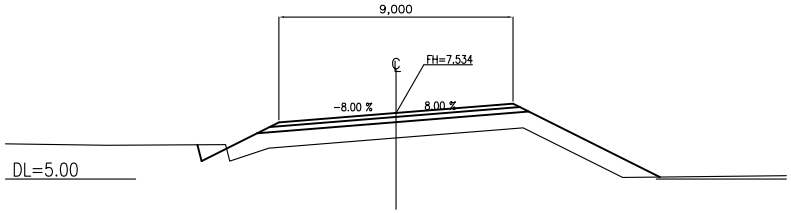
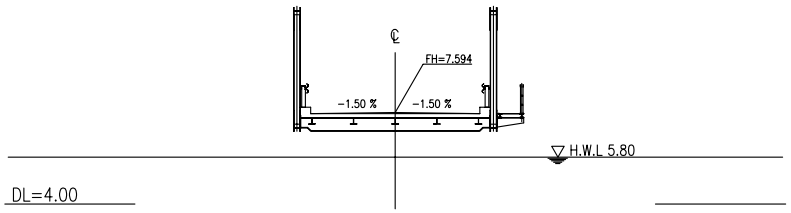
FH=7.534
CA=0.4 ㎡
BA=10.3㎡



STATION.5091.798

FH=7.594



STATION.5000.0

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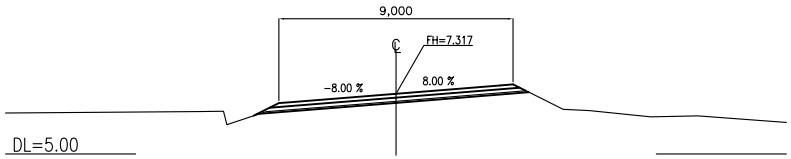
FH=7.317
CA= — ㎡
BA=0.6 ㎡



STATION.5065.0 (A1)

GH=6.167
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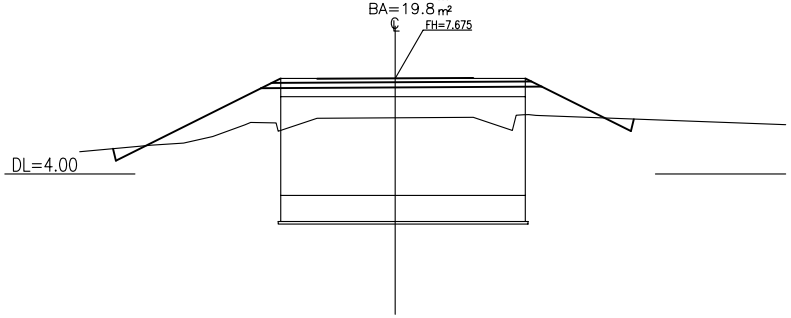
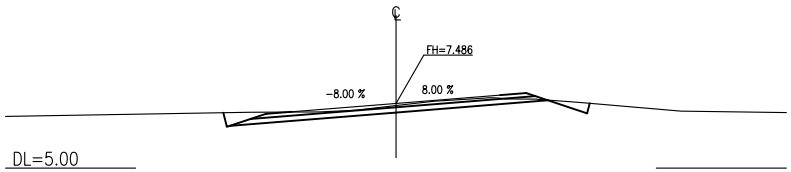
CA=0.5 ㎡
BA=19.8㎡



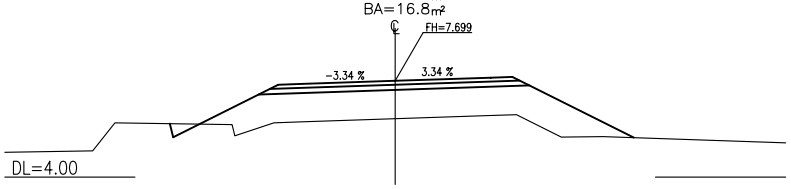
STATION.4975.0

GH=7.400
FH=7.486



STATION.5050.0

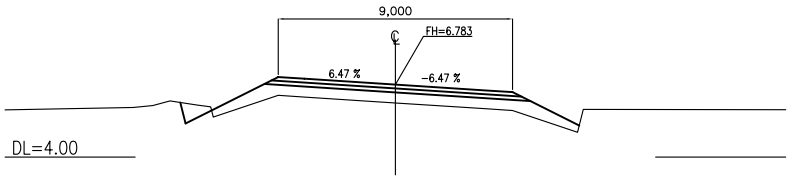
GH=6.215
FH=7.699
CA=0.3 ㎡
BA=16.8㎡



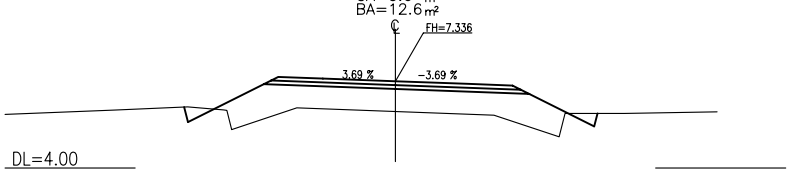
GOVERNMENT OF THE REPUBLIC OF VANUATU PUBLIC WORKS DEPARTMENT	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PROJECT : BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF BRIDGES ON THE RING ROAD IN THE EFATE ISLAND	TITLE : CROSS SECTION(1) (TEOUMA BRIDGE)	DRAWING No: 21 Rv.

CROSS SECTION(2) SCALE 1:100

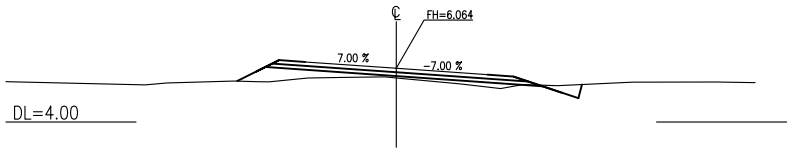
STATION.5150.0
GH=5.980
FH=6.783
CA=0.5㎡
BA=6.0㎡



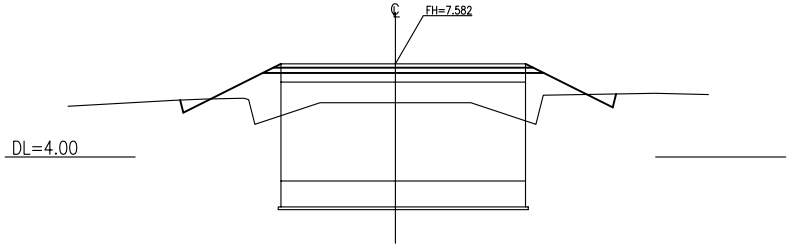
STATION.5125.0
GH=6.129
FH=7.336
CA=0.6 ㎡
BA=12.6㎡



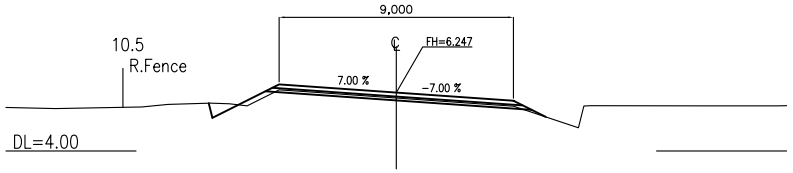
STATION.5200.0
GH=5.694
FH=6.064



STATION.5096.2 (A2)
GH=6.095
FH=7.582
CA=0.5 ㎡
BA=17.2㎡



STATION.5175.0
GH=5.859
FH=6.247
CA=1.2㎡
BA=0.3㎡



GOVERNMENT OF THE REPUBLIC OF VANUATU PUBLIC WORKS DEPARTMENT	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PROJECT : BASIC DESIGN STUDY ON THE PROJECT FOR THE REHABILITATION OF BRIDGES ON THE RING ROAD IN THE EFATE ISLAND	TITLE : CROSS SECTION(2) (TEOUMA BRIDGE)	DRAWING No: 22 Rv.