

Station	Right Bank	Transit Line	Left Bank
Y-29	1,846,776.25	1,847,151.21	1,847,337.26
Y-30	1,847,771.58	1,849,172.52	1,848,300.21
Y-31	1,848,761.33	1,849,193.83	1,849,287.87
Y-32	1,849,702.04	1,850,215.13	1,850,316.48
Y-33	1,850,655.52	1,851,236.44	1,851,375.95
Y-34	1,851,620.79	1,852,257.75	1,852,369.56
Y-35	1,852,573.23	1,853,207.67	1,853,309.14
Y-36	1,853,595.92	1,854,125.04	1,854,195.85

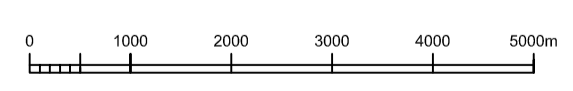
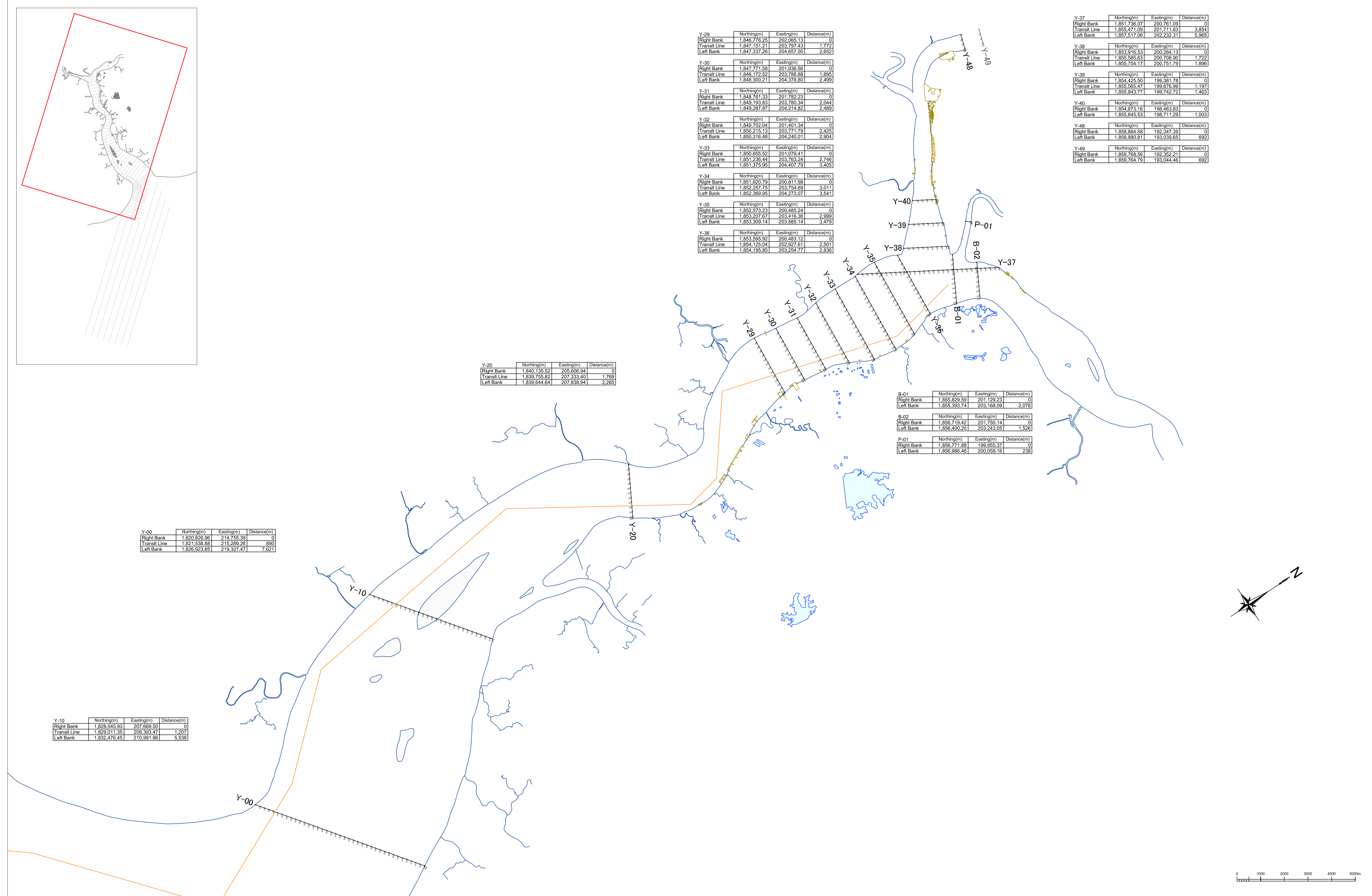
Station	Right Bank	Transit Line	Left Bank
Y-37	1,851,736.07	1,855,471.09	1,857,517.06
Y-38	1,853,916.53	1,855,585.83	1,855,754.17
Y-39	1,854,425.50	1,855,585.47	1,855,843.77
Y-40	1,854,873.16	1,855,854.58	1,858,880.81
Y-48	1,858,854.58	1,858,880.81	1,859,764.79
Y-49	1,859,764.79	1,859,764.79	1,859,764.79

Station	Right Bank	Transit Line	Left Bank
Y-20	1,840,135.52	1,839,755.82	1,839,644.64

Station	Right Bank	Transit Line	Left Bank
Y-00	1,820,638.96	1,821,538.88	1,826,923.85

Station	Right Bank	Transit Line	Left Bank
Y-10	1,828,045.93	1,829,011.35	1,832,476.45

Station	Right Bank	Transit Line	Left Bank
B-01	1,855,829.59	1,855,393.74	1,856,400.20
B-02	1,856,719.42	1,856,400.20	1,856,400.20
P-01	1,856,771.88	1,856,986.46	1,856,986.46

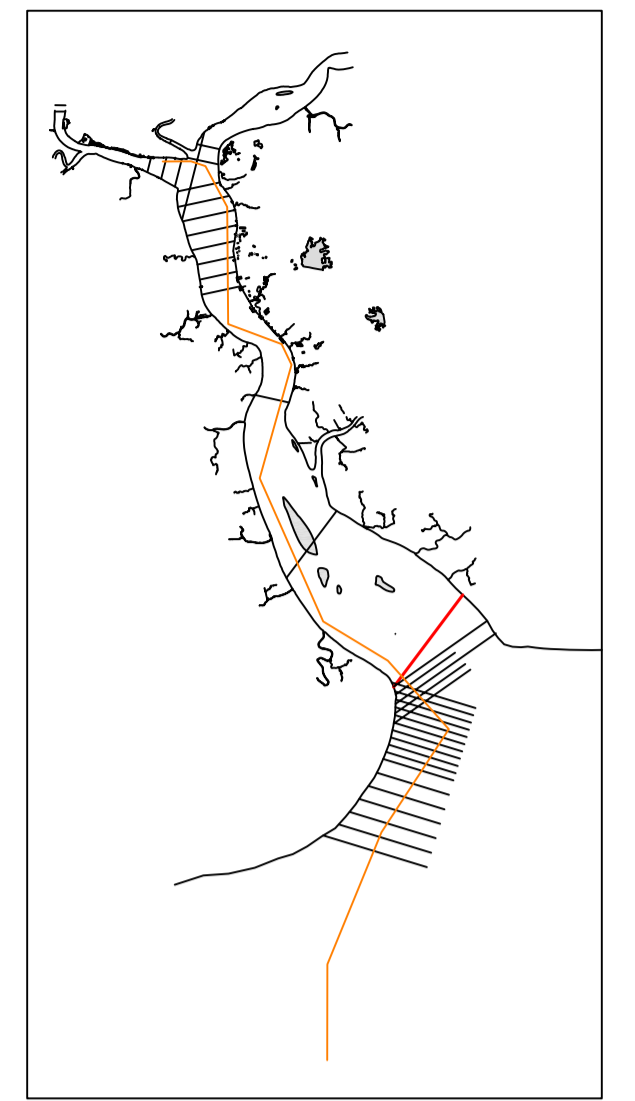
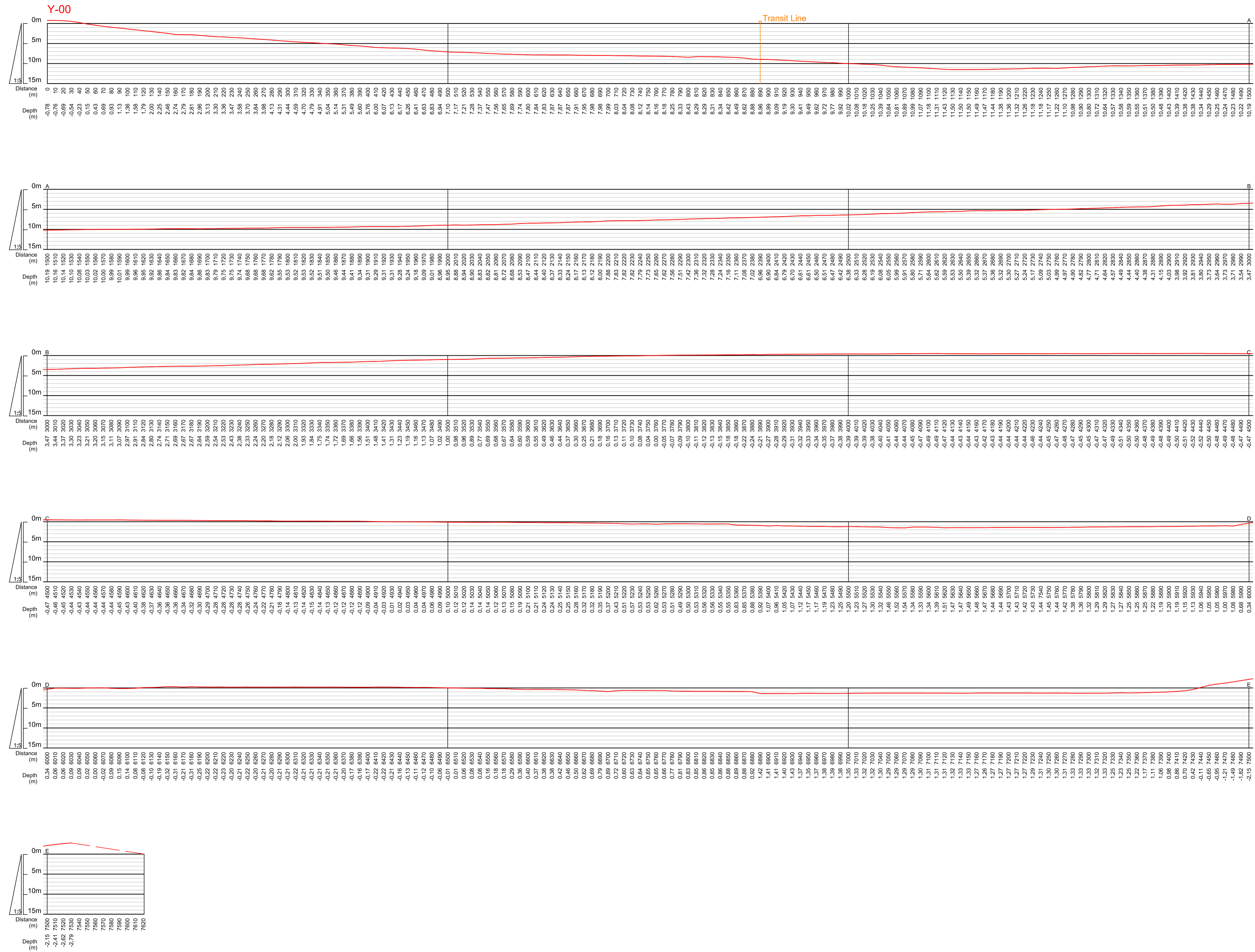


MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA STUDY TEAM
 ORIENTAL CONSULTANTS GLOBAL Co., LTD.
 ASIA AIR SURVEY CO., LTD.
CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
 The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title
 Location map of cross section survey lines along the Yangon River, the Bago River and Pazundaung Creek after rainy season

Projection
 UTM Zone 47 N
Ellipsoid
 WGS - 84
Datum Level
 Chart Datum of Yangon Port
Revision
 1.0.0
Date of Survey
 From 09 Nov 2015 to 09 Dec 2015
Date of Drawing
 31 Jan 2016
Sheet No.
 The Yangon river and the Bago river
Scale
 1/75,000 (A1 Printing)
 1/150,000 (A3 Printing)



Y-00	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 820 826.96	214 755.39	0
Transit Line	1 821 538.88	215 289.26	890
Left Bank	1 826 923.85	219 327.47	7 621

After Rainy Season



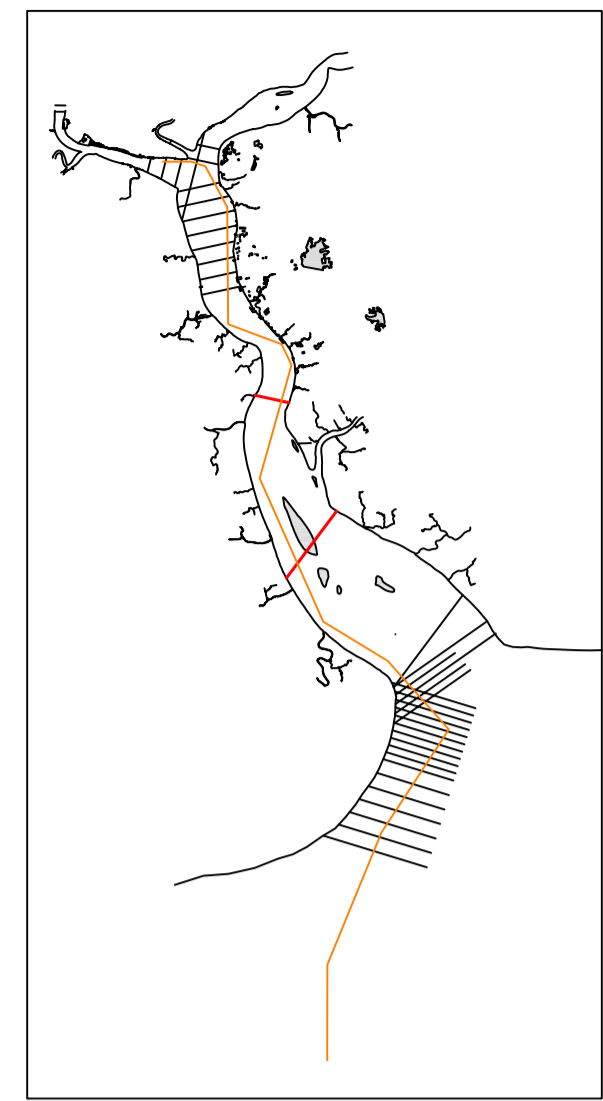
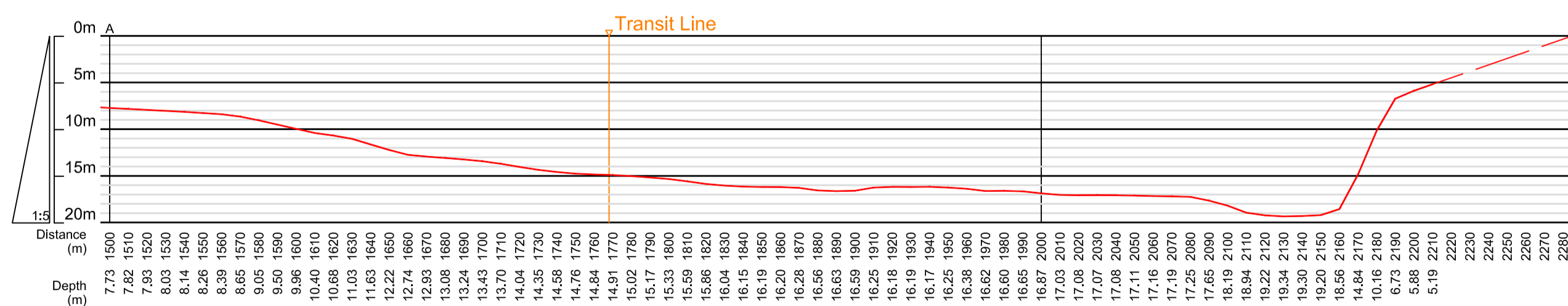
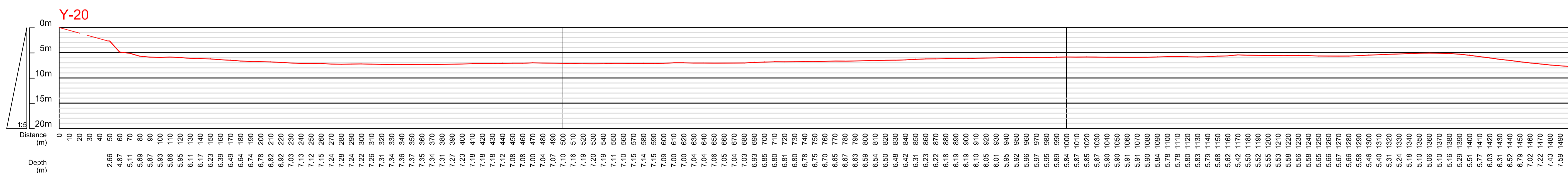
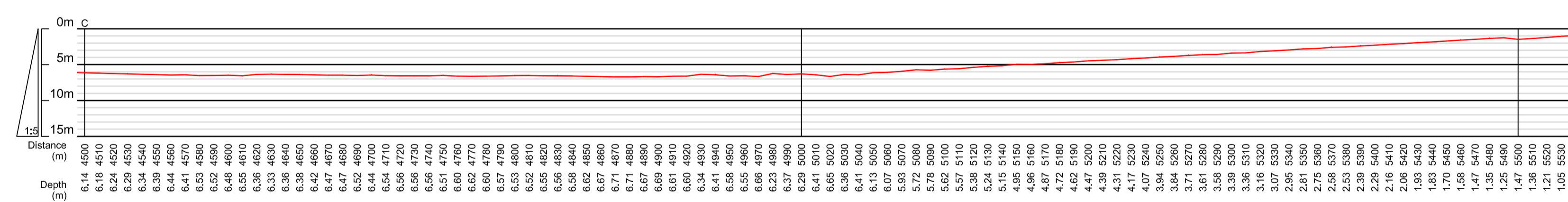
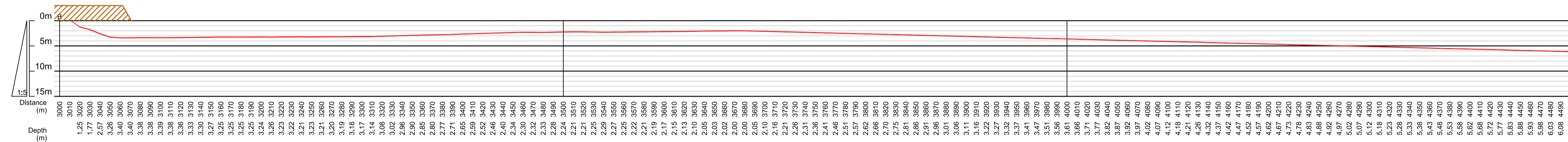
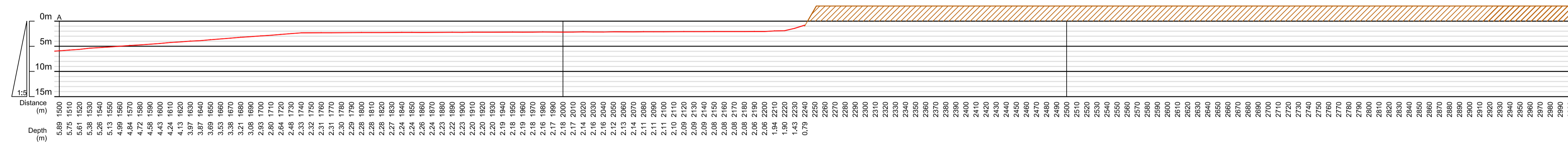
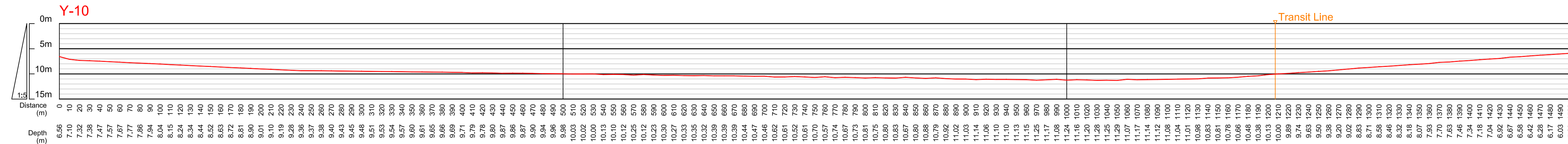
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
 Drawing Title
Cross sections along the Yangon River, the Bago River and Pazundaung Creek after rainy season

Projection
UTM Zone 47 N
 Ellipsoid
WGS - 84
 Datum Level
Chart Datum of Yangon Port
 Revision
1.0.0

Date of Survey
From 09 Nov 2015 to 09 Dec 2015
 Date of Drawing
15 Jan 2016
 Sheet No.
Y-00
 Scale
**H=2,500 V=1/500 (A1 Printing)
 H=5,000 V=1/1,000 (A3 Printing)**



Y-10	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,828,045.93	207,869.59	0
Transit Line	1,830,011.38	208,933.47	1,207
Left Bank	1,832,476.45	210,991.96	5,538

Y-20	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,840,135.52	205,606.94	0
Transit Line	1,839,755.82	207,333.40	1,768
Left Bank	1,839,644.84	207,838.94	2,285

River Island
 After Rainy Season



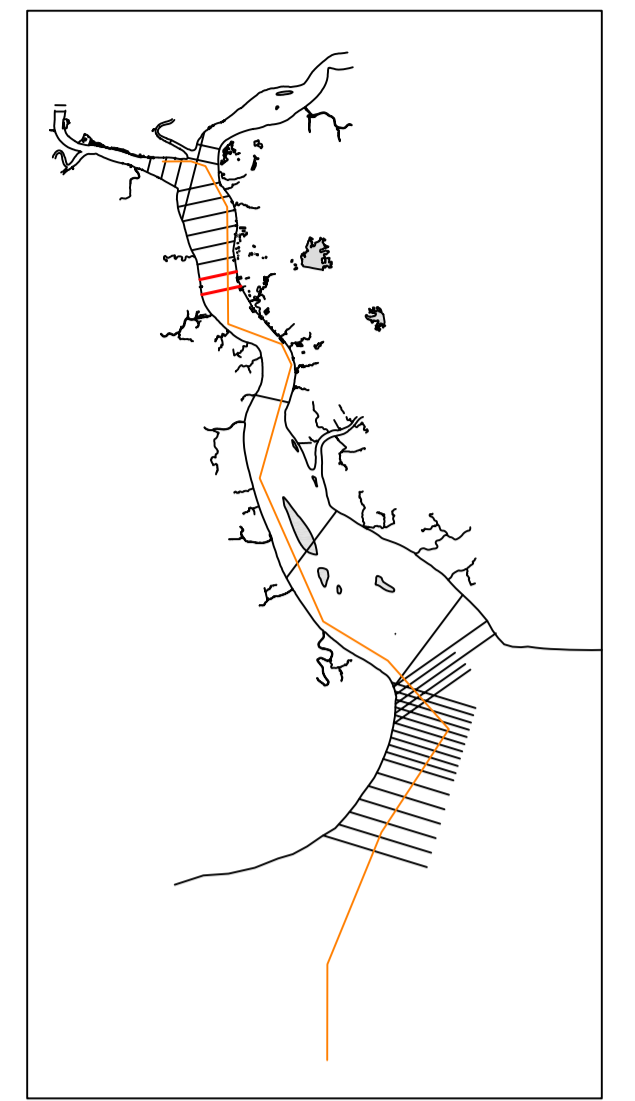
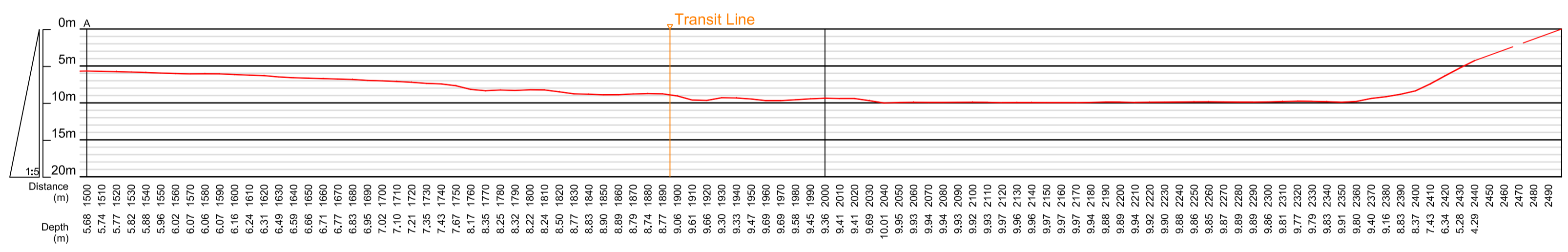
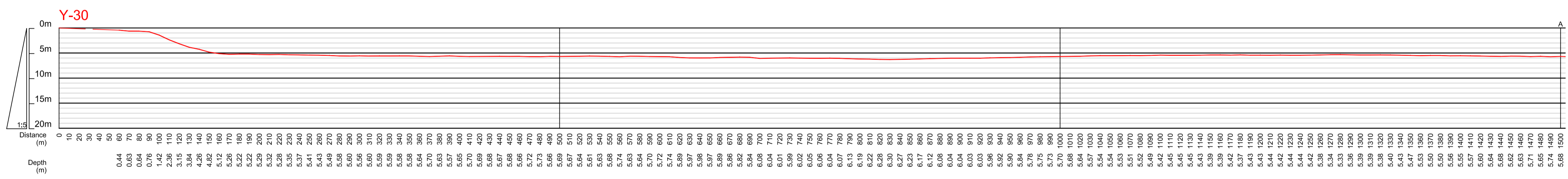
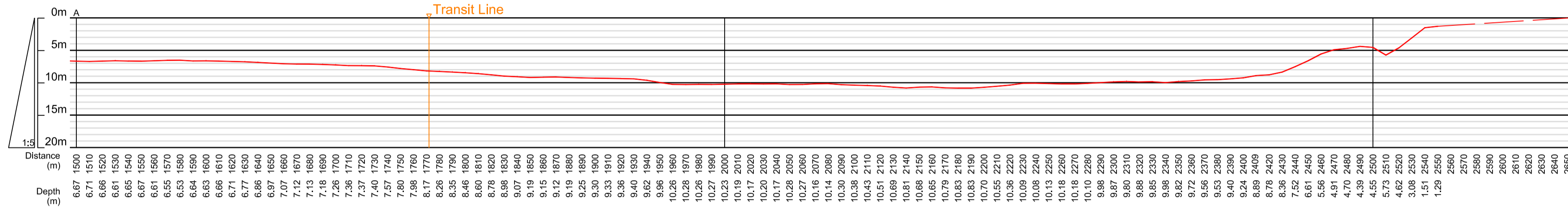
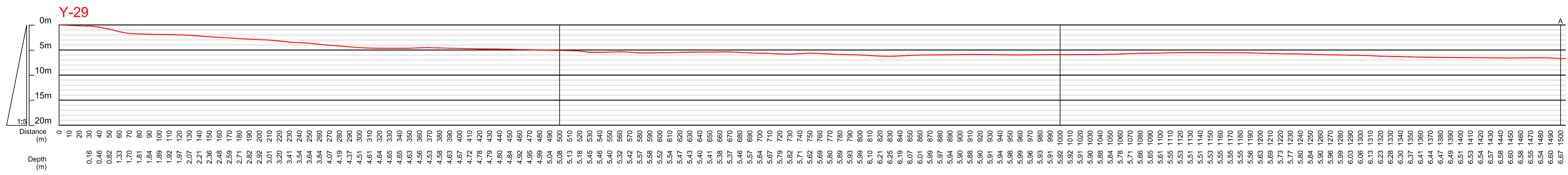
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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 ASIA AIR SURVEY CO., LTD.
CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name: **The Data Collection Survey for Improvement of Navigation Channel of Yangon Port**
 Drawing Title: **Cross sections along the Yangon River, the Bago River and Pazundaung Creek after rainy season**

Projection: **UTM Zone 47 N**
 Ellipsoid: **WGS - 84**
 Datum Level: **Chart Datum of Yangon Port**
 Revision: **1.0.0**

Date of Survey: **From 09 Nov 2015 to 09 Dec 2015**
 Date of Drawing: **15 Jan 2016**
 Sheet No.: **Y-10, Y-20**
 Scale: **H=2,500 V=1/500 (A1 Printing)**
H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Y-29 Right Bank	1,846,776.25	202,065.13	0
Y-29 Transit Line	1,847,151.21	203,797.43	1,772
Y-29 Left Bank	1,847,337.26	204,657.00	2,652

	Northing(m)	Easting(m)	Distance(m)
Y-30 Right Bank	1,847,771.58	201,936.56	0
Y-30 Transit Line	1,848,172.52	203,788.88	1,895
Y-30 Left Bank	1,848,300.21	204,378.80	2,499

After Rainy Season



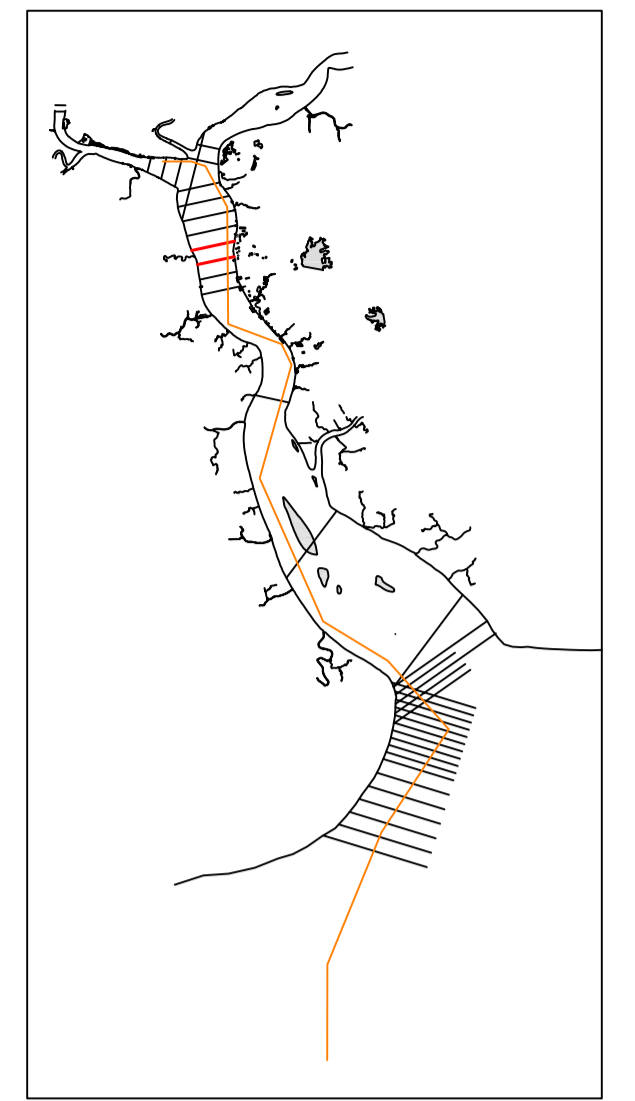
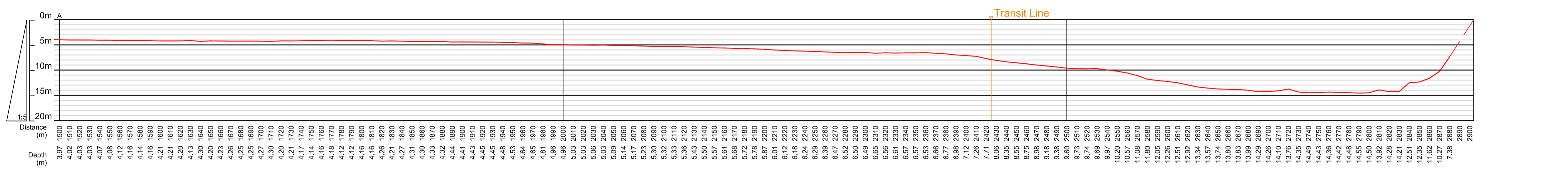
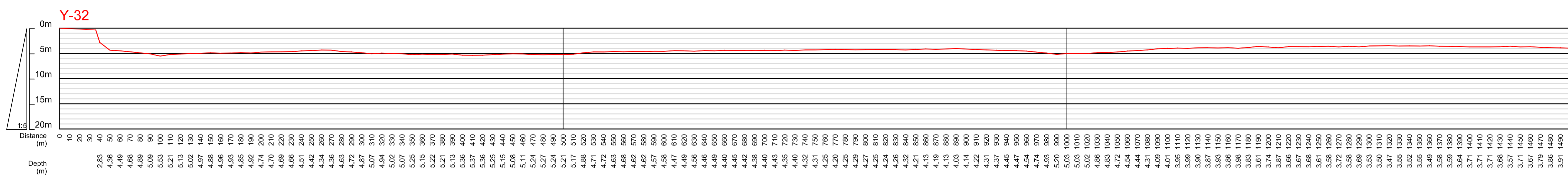
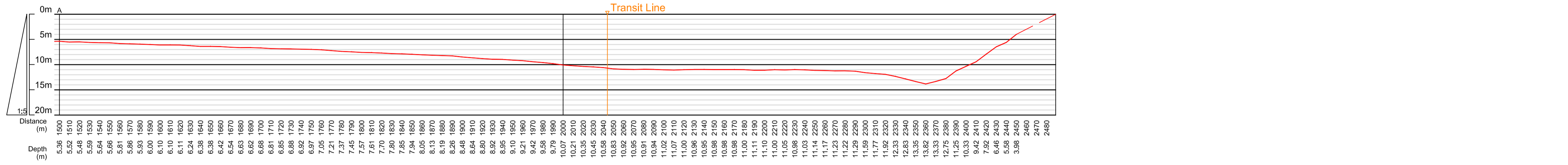
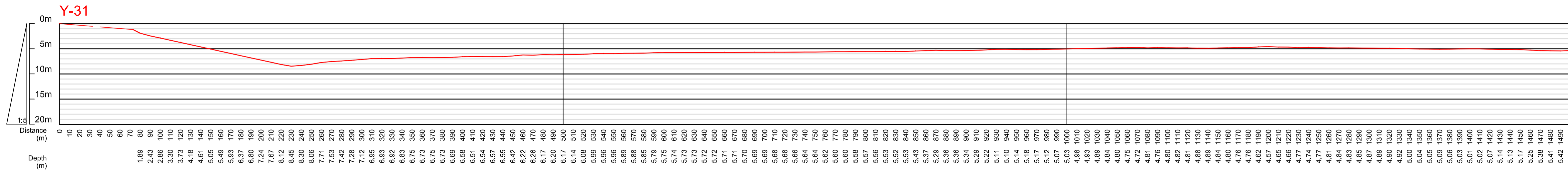
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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Projection	UTM Zone 47 N
Ellipsoid	WGS - 84
Datum Level	Chart Datum of Yangon Port
Revision	1.0.0

Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Date of Drawing	15 Jan 2016
Sheet No.	Y-29, Y-30
Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,845,761.33	201,782.23	0
Transit Line	1,849,193.83	203,780.34	2,044
Left Bank	1,849,287.87	204,214.82	2,488

	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,849,702.04	201,401.34	0
Transit Line	1,850,215.13	203,771.79	2,425
Left Bank	1,850,316.48	204,240.01	2,901

After Rainy Season



MYANMA PORT AUTHORITY (MPA)



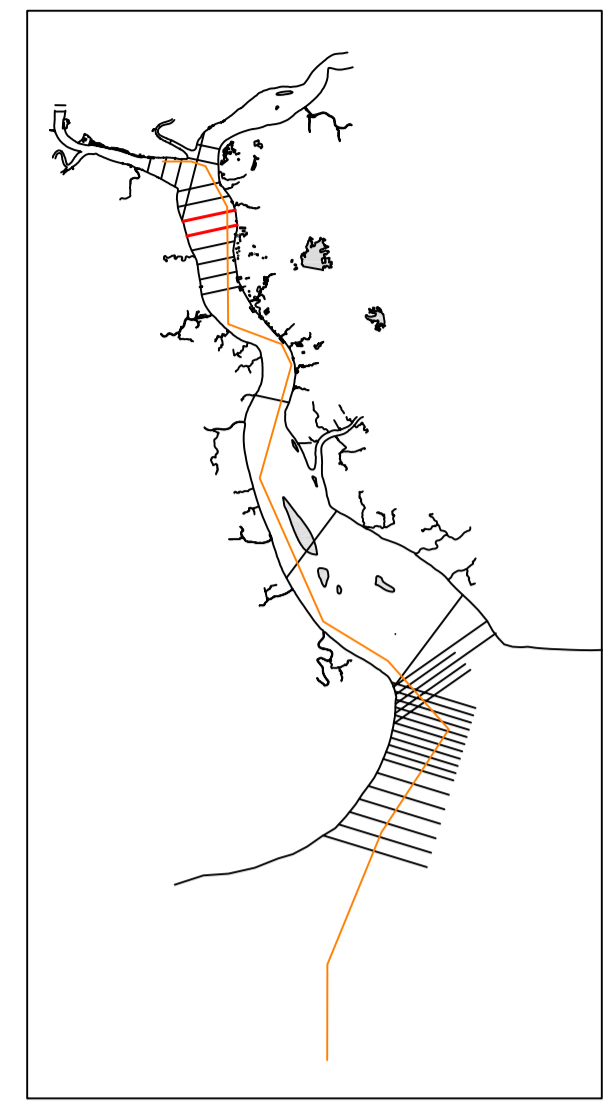
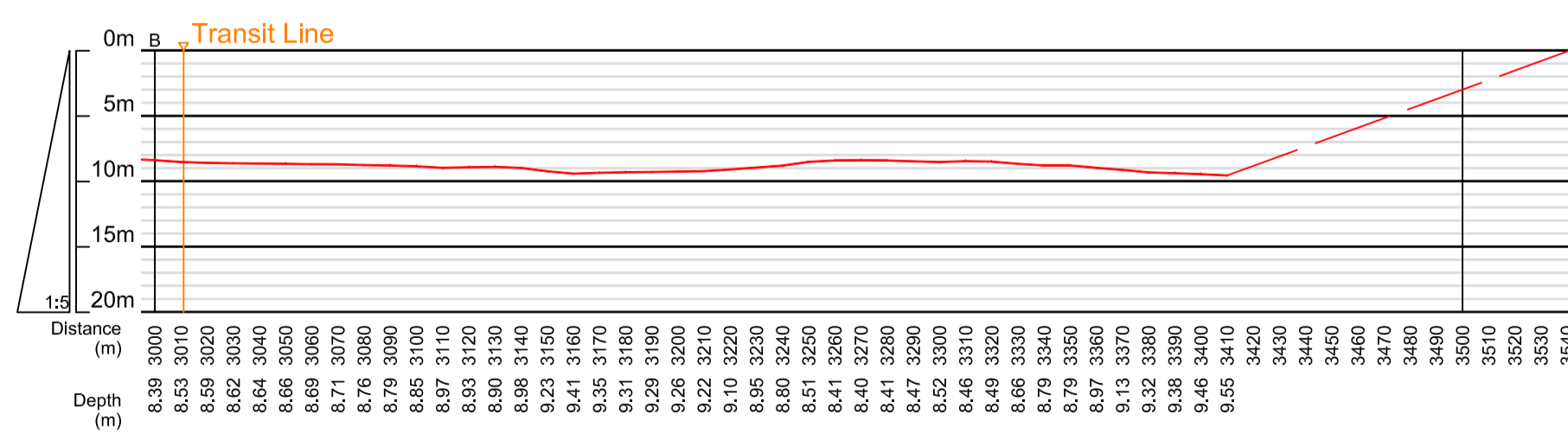
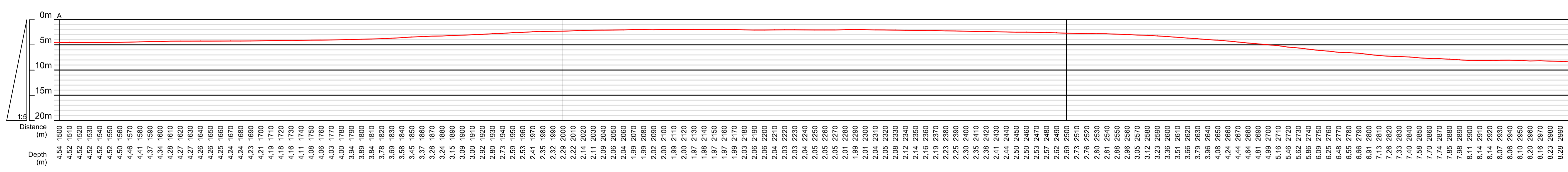
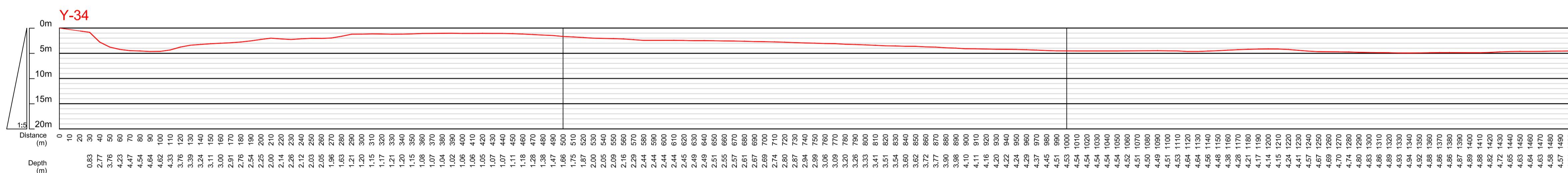
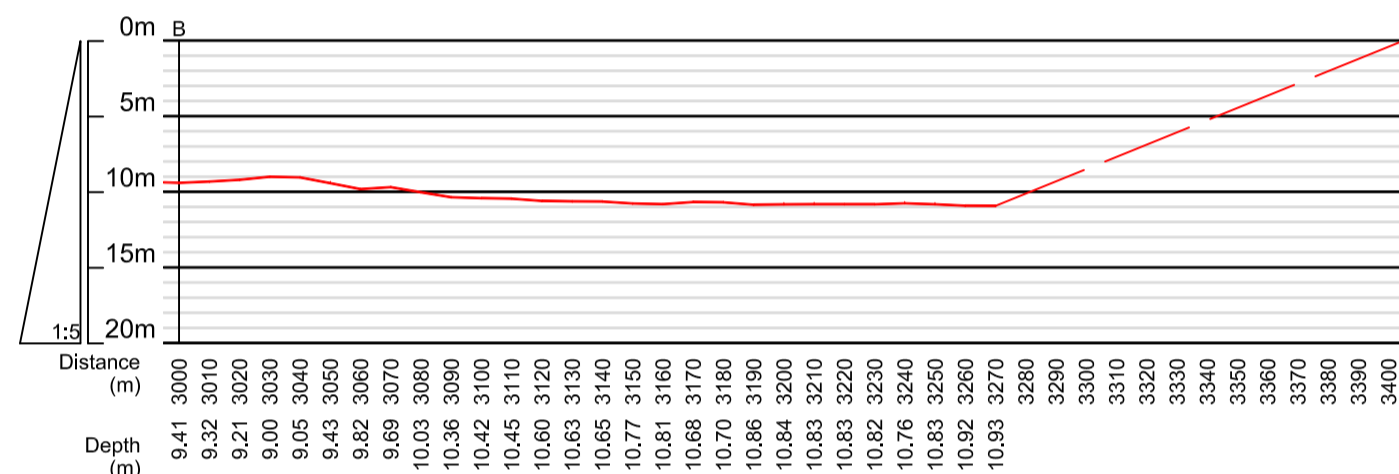
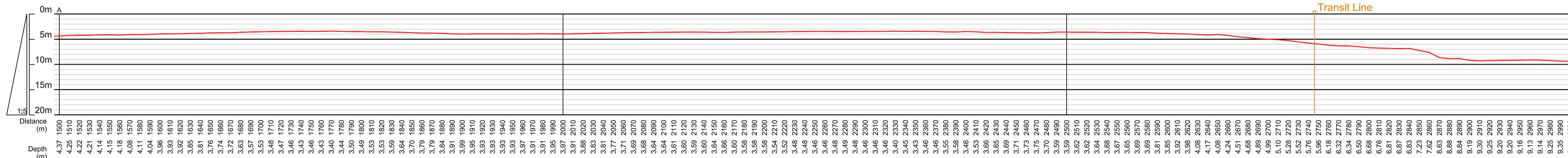
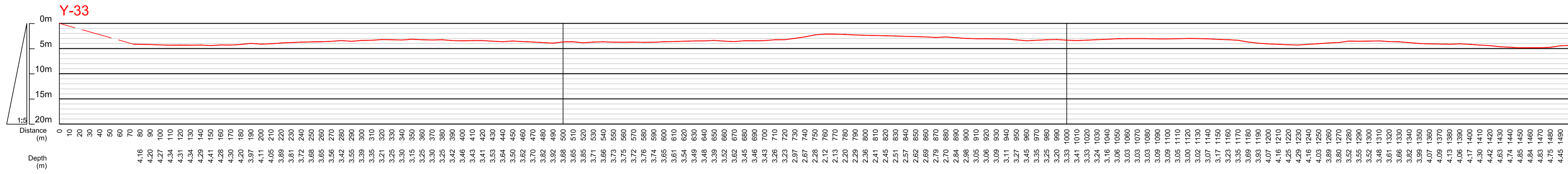
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA STUDY TEAM	
	ORIENTAL CONSULTANTS GLOBAL Co., LTD.
	ASIA AIR SURVEY CO., LTD.
CONTRACTOR	
	ARC GEO SUPPORT CO., LTD.

Project Name	The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
Drawing Title	Cross sections along the Yangon River, the Bago River and Pazundaung Creek after rainy season

Projection	UTM Zone 47 N
Ellipsoid	WGS - 84
Datum Level	Chart Datum of Yangon Port
Revision	1.0.0

Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Date of Drawing	15 Jan 2016
Sheet No.	Y-31, Y-32
Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 850 655.52	201 079.41	0
Transit Line	1 851 235.44	203 783.24	2 746
Left Bank	1 851 375.95	204 407.79	3 405

	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 851 620.79	200 811.98	0
Transit Line	1 852 257.75	203 754.69	3 011
Left Bank	1 852 369.95	204 273.07	3 541



MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

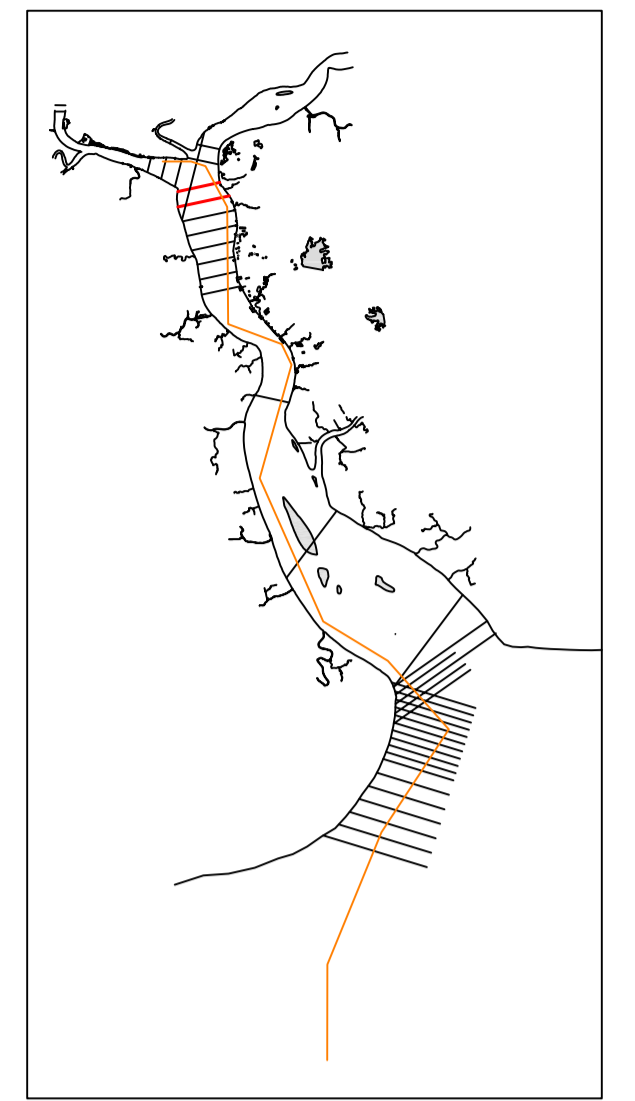
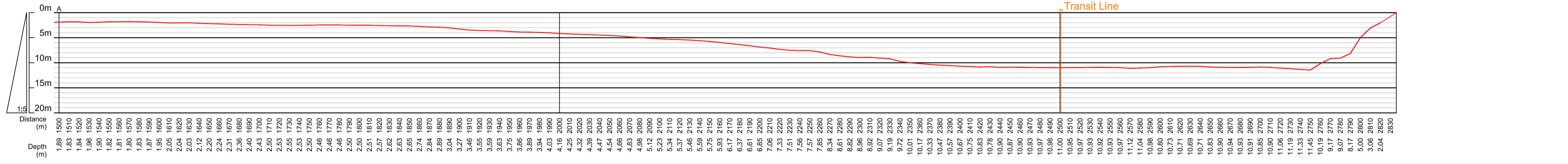
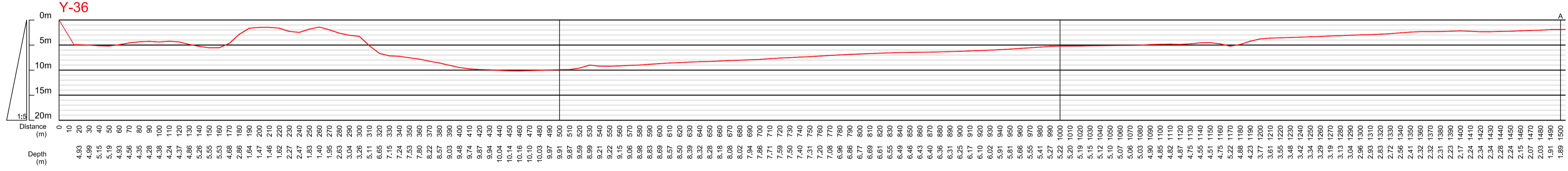
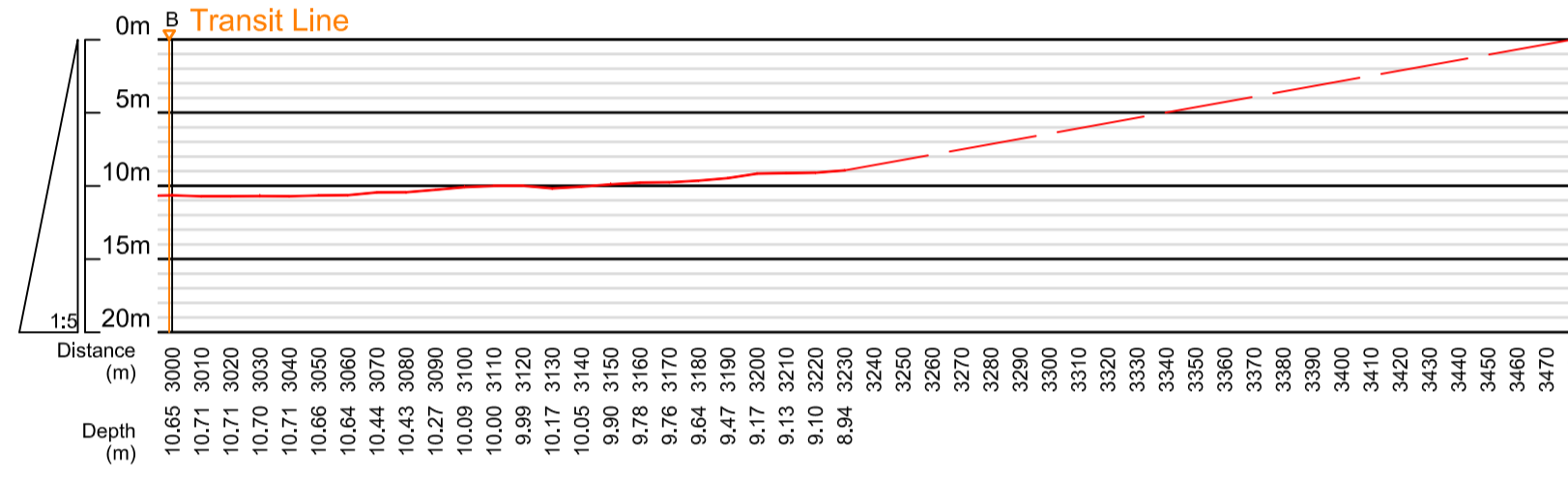
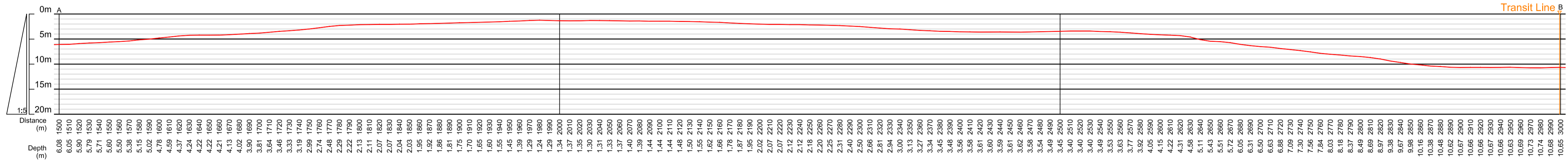
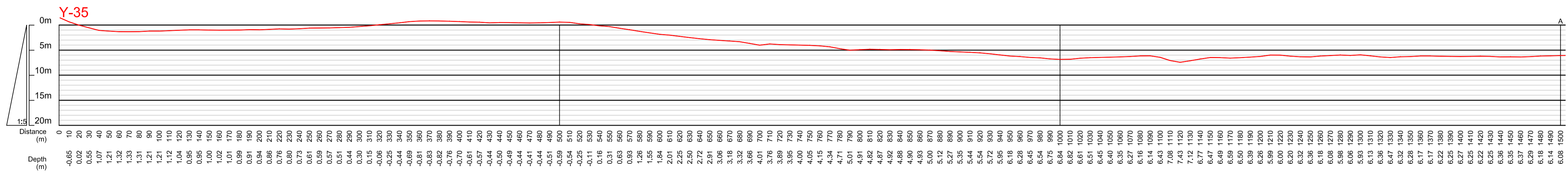
JICA STUDY TEAM
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 ASIA AIR SURVEY CO., LTD.
CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name: **The Data Collection Survey for Improvement of Navigation Channel of Yangon Port**
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Projection: **UTM Zone 47 N**
 Ellipsoid: **WGS - 84**
 Datum Level: **Chart Datum of Yangon Port**
 Revision: **1.0.0**

Date of Survey: **From 09 Nov 2015 to 09 Dec 2015**
 Date of Drawing: **15 Jan 2016**
 Sheet No.: **Y-33, Y-34**
 Scale: **H=2,500 V=1/500 (A1 Printing)**
H=5,000 V=1/1,000 (A3 Printing)

After Rainy Season



Y-35	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,852,573.23	200,485.24	0
Transit Line	1,853,207.67	203,416.36	2,999
Left Bank	1,853,309.14	203,885.14	3,479

Y-36	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,853,595.52	200,483.12	0
Transit Line	1,854,125.04	202,927.61	2,501
Left Bank	1,854,195.85	203,254.77	2,830

After Rainy Season



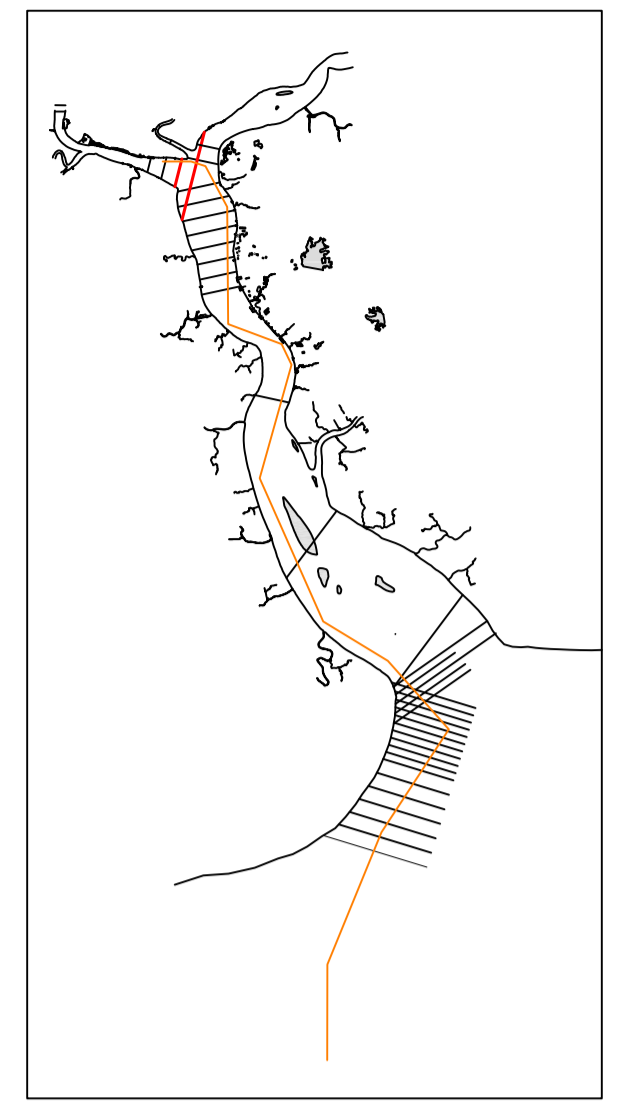
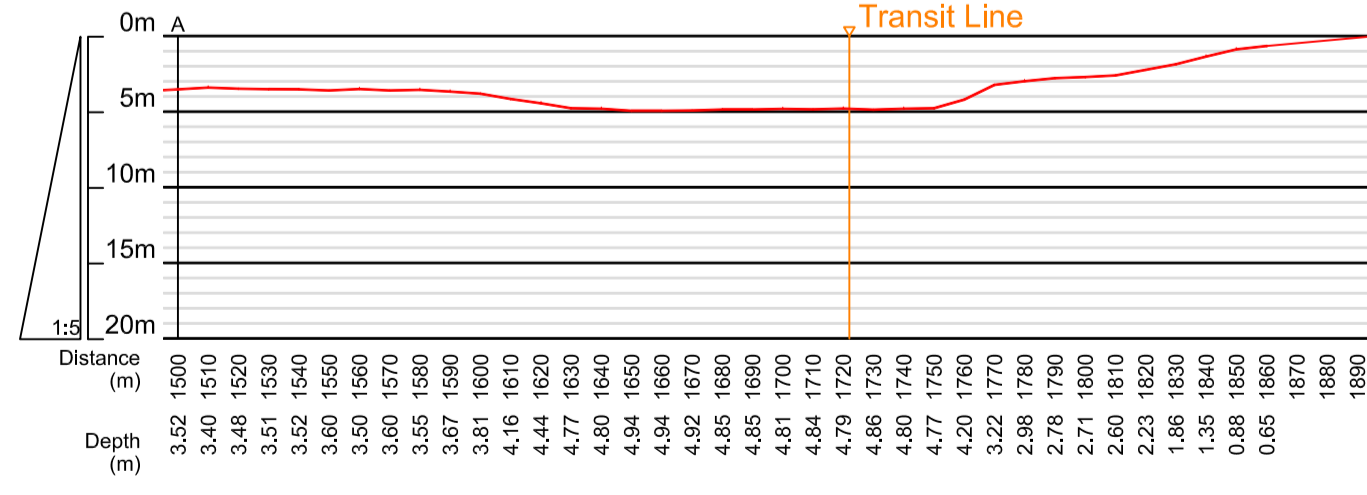
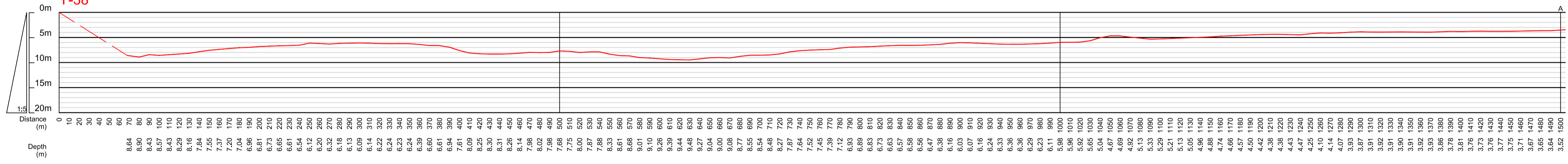
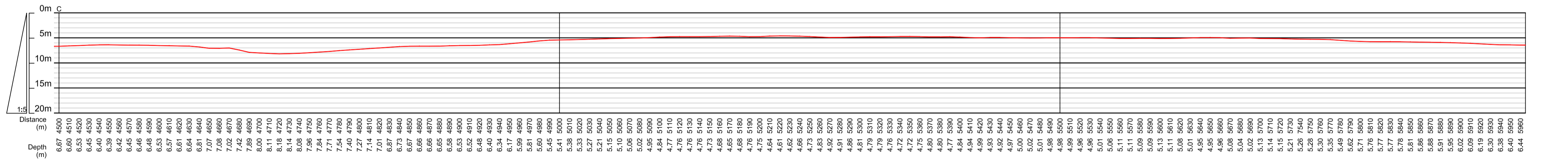
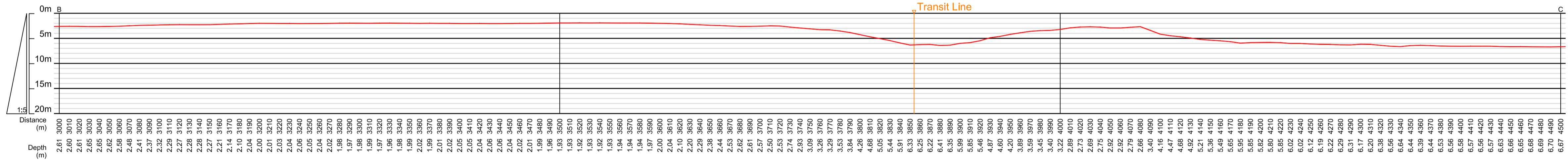
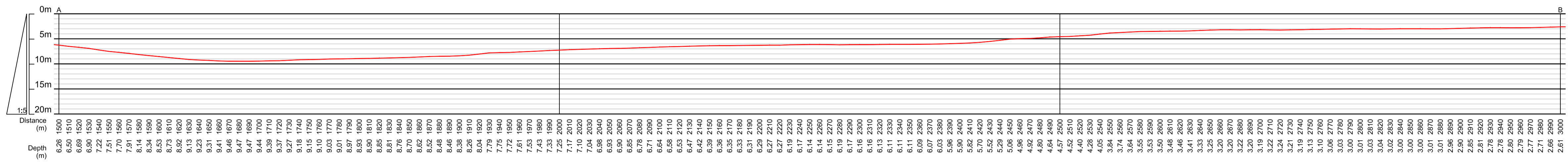
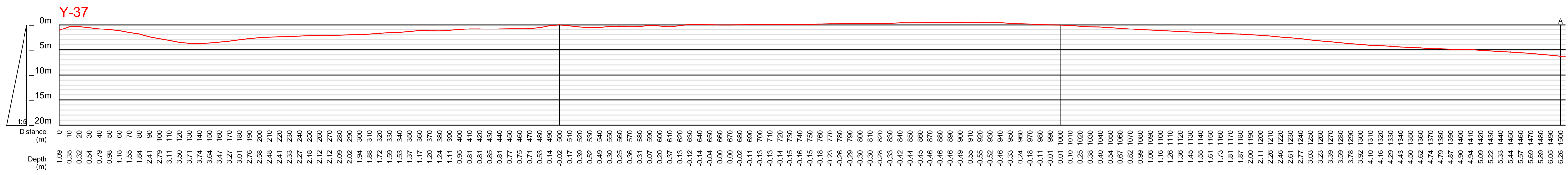
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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ASIA AIR SURVEY CO., LTD.
CONTRACTOR
ARC GEO SUPPORT CO., LTD.

Project Name: **The Data Collection Survey for Improvement of Navigation Channel of Yangon Port**
 Drawing Title: **Cross sections along the Yangon River, the Bago River and Pazundaung Creek after rainy season**

Projection: **UTM Zone 47 N**
 Ellipsoid: **WGS - 84**
 Datum Level: **Chart Datum of Yangon Port**
 Revision: **1.0.0**

Date of Survey: **From 09 Nov 2015 to 09 Dec 2015**
 Date of Drawing: **15 Jan 2016**
 Sheet No.: **Y-35, Y-36**
 Scale: **H=2,500 V=1/500 (A1 Printing)**
H=5,000 V=1/1,000 (A3 Printing)



	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 851 736.07	200 761.09	0
Transit Line	1 855 471.09	211 711.83	3 854
Left Bank	1 857 517.06	202 232.31	5 965

	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 853 916.53	200 284.13	0
Transit Line	1 855 585.63	200 708.90	1 722
Left Bank	1 855 754.17	200 751.79	1 896

After Rainy Season



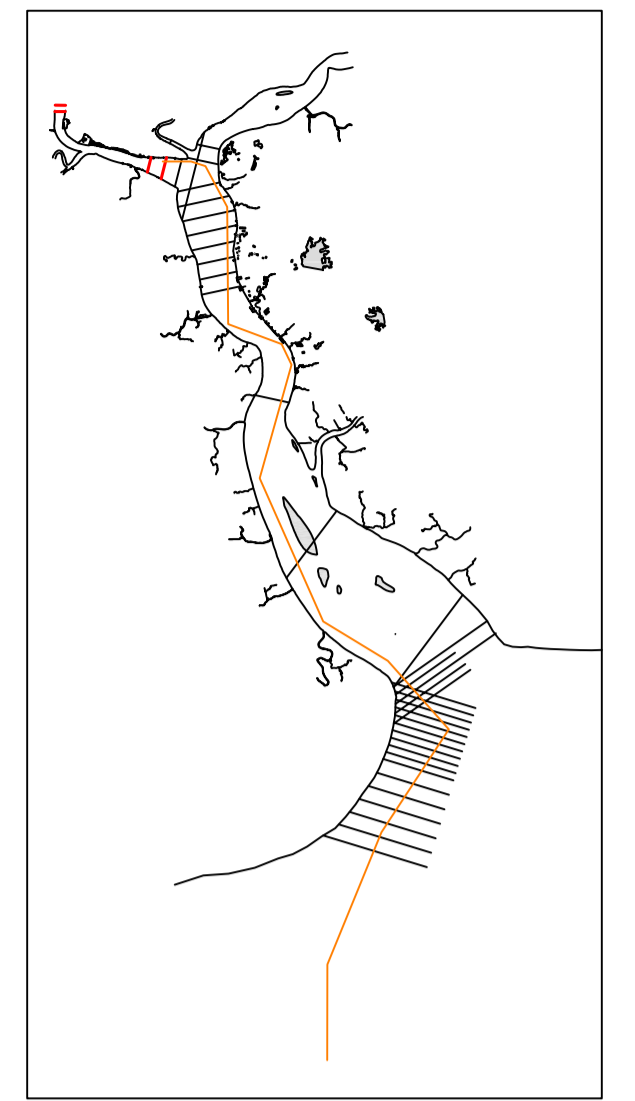
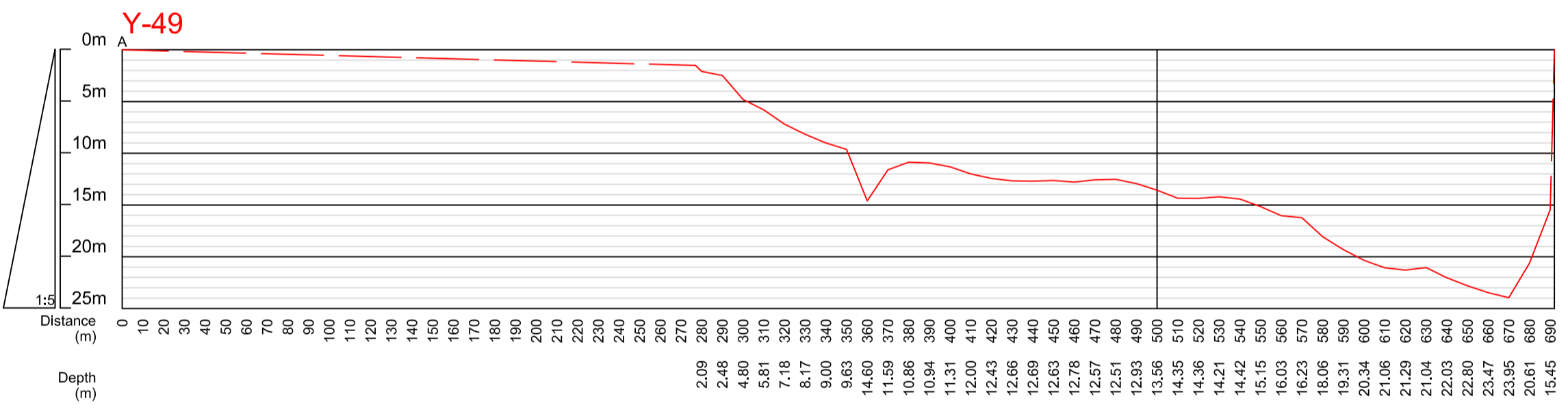
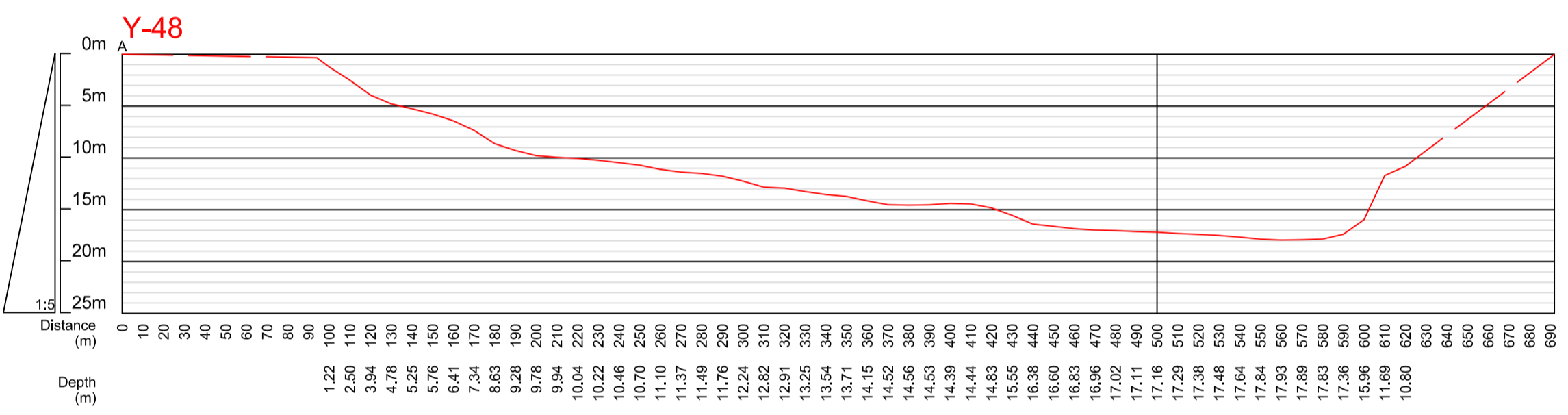
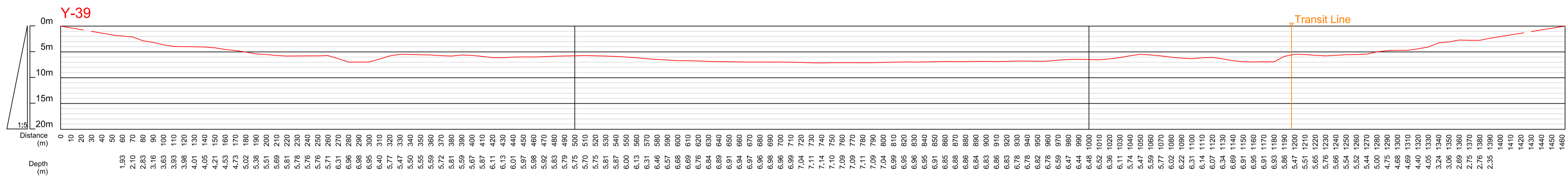
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 Ellipsoid: **WGS - 84**
 Datum Level: **Chart Datum of Yangon Port**
 Revision: **1.0.0**

Date of Survey: **From 09 Nov 2015 to 09 Dec 2015**
 Date of Drawing: **15 Jan 2016**
 Sheet No.: **Y-37, Y-38**
 Scale: **H=2,500 V=1/500 (A1 Printing)**
H=5,000 V=1/1,000 (A3 Printing)



Y-39	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 854 425.50	199 381.78	0
Transit Line	1 855 585.47	199 676.99	1 197
Left Bank	1 855 843.77	199 742.72	1 463

Y-40	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 854 873.16	198 463.83	0
Left Bank	1 855 845.53	198 711.29	1 003

Y-48	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 858 884.58	192 347.39	0
Left Bank	1 858 880.81	193 039.65	692

Y-49	Northing(m)	Easting(m)	Distance(m)
Right Bank	1 859 768.56	192 352.21	0
Left Bank	1 859 764.79	193 044.46	692

After Rainy Season

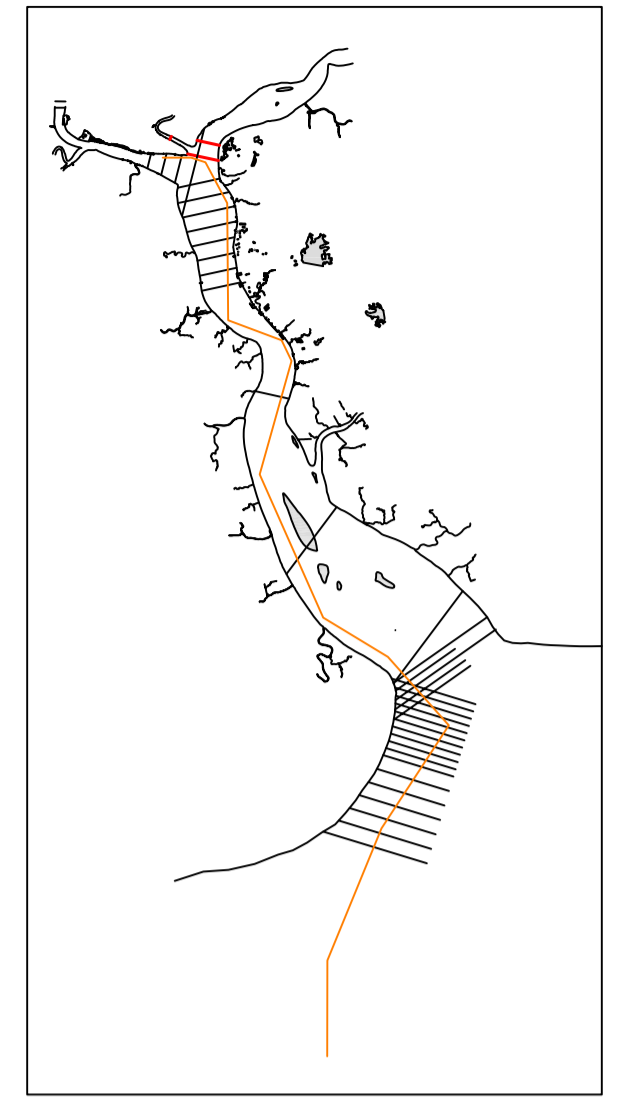
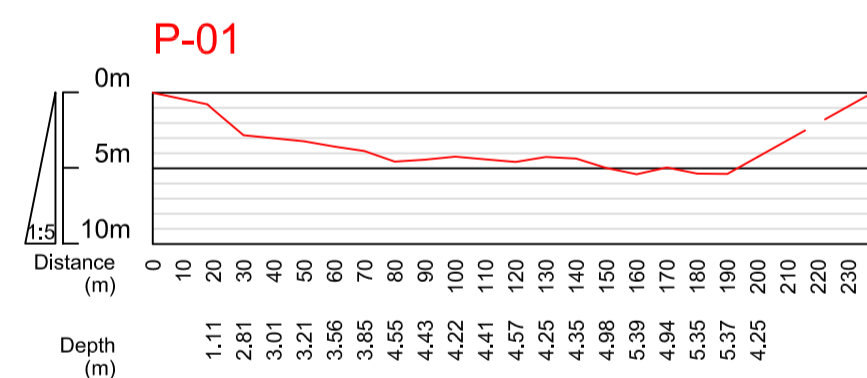
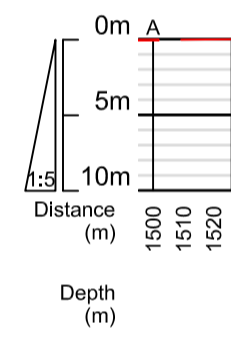
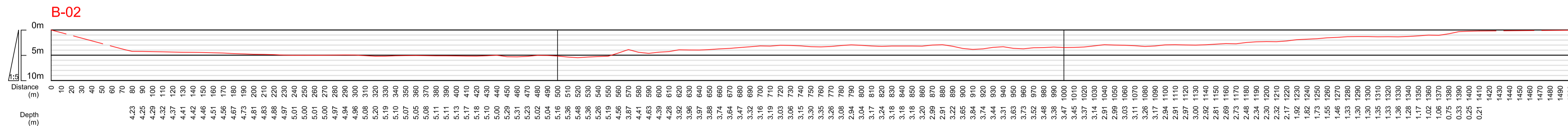
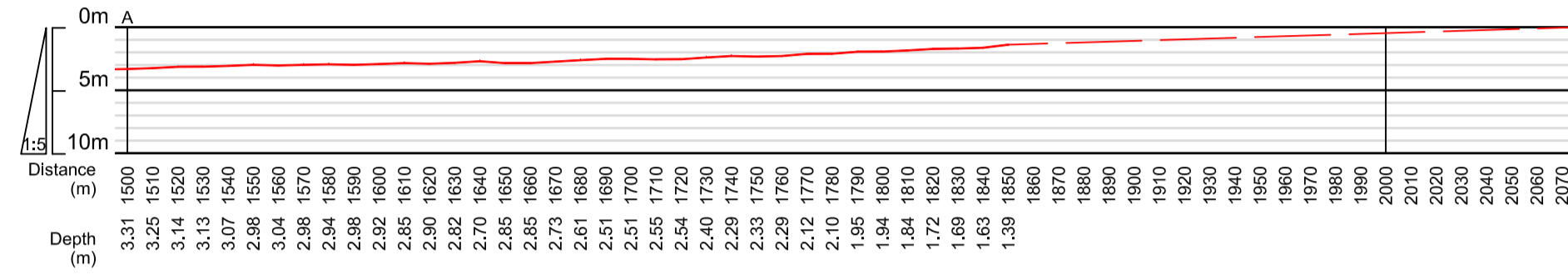
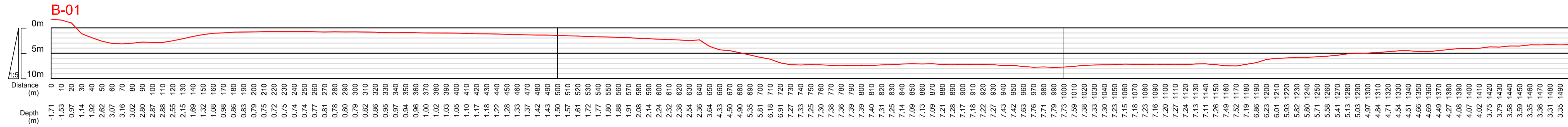


MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

JICA STUDY TEAM
 ORIENTAL CONSULTANTS GLOBAL Co., LTD.
 ASIA AIR SURVEY CO., LTD.
 CONTRACTOR
 ARC GEO SUPPORT CO., LTD.

Project Name
The Data Collection Survey for Improvement of Navigation Channel of Yangon Port
 Drawing Title
Cross sections along the Yangon River, the Bago River and Pazundaung Creek after rainy season

Projection	UTM Zone 47 N	Date of Survey	From 09 Nov 2015 to 09 Dec 2015
Ellipsoid	WGS - 84	Date of Drawing	15 Jan 2016
Datum Level	Chart Datum of Yangon Port	Sheet No.	Y-39 , Y-40 , Y-48 , Y-49
Revision	1.0.0	Scale	H=2,500 V=1/500 (A1 Printing) H=5,000 V=1/1,000 (A3 Printing)



B-01	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,855,829.59	201,129.23	0
Left Bank	1,855,393.74	203,188.09	2,076

B-02	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,856,719.42	201,750.14	0
Left Bank	1,856,400.20	203,243.05	1,526

P-01	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,856,771.88	199,955.37	0
Left Bank	1,856,986.46	200,059.16	238

After Rainy Season



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The Data Collection Survey for Improvement of Navigation Channel of Yangon Port

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Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

15 Jan 2016

Sheet No.

B-01 , B-02 , P-01

Scale

H=2,500 V=1/500 (A1 Printing)
H=5,000 V=1/1,000 (A3 Printing)