

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	880
Left Bank	1,826,923.85	219,327.47	7,621

— Before Rainy Season
— After Rainy Season



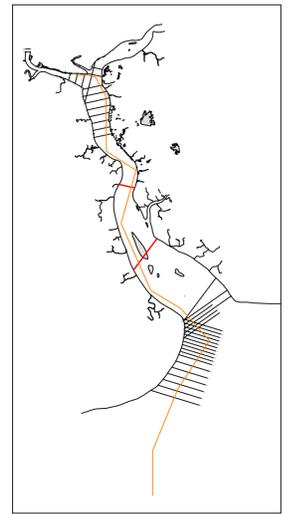
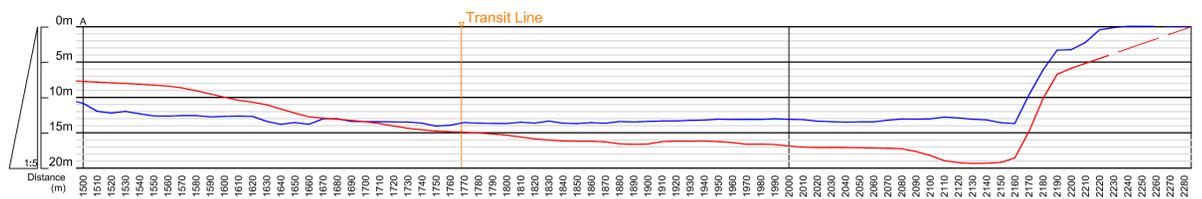
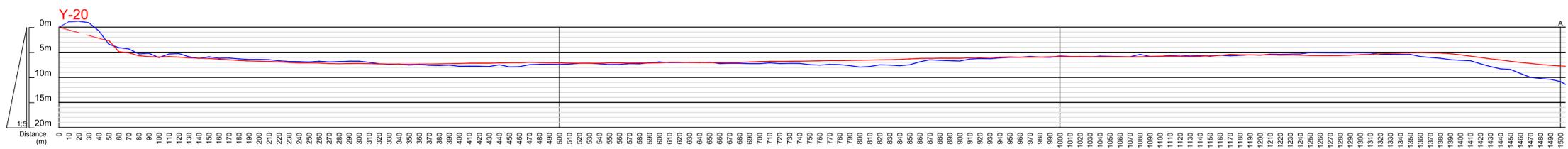
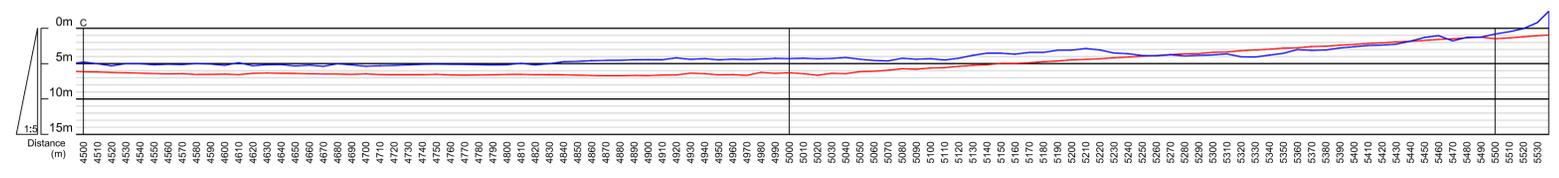
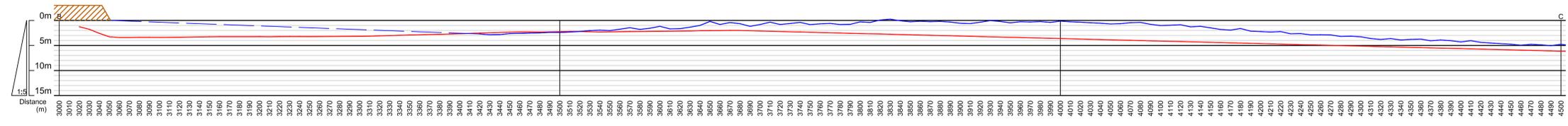
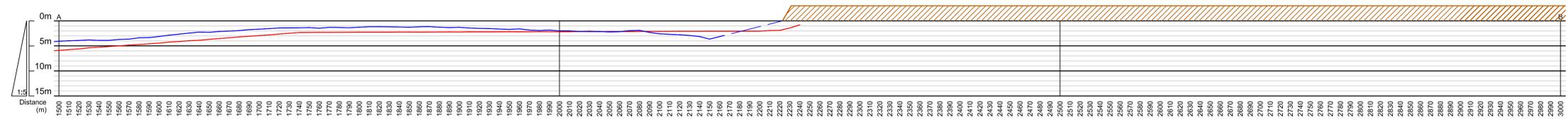
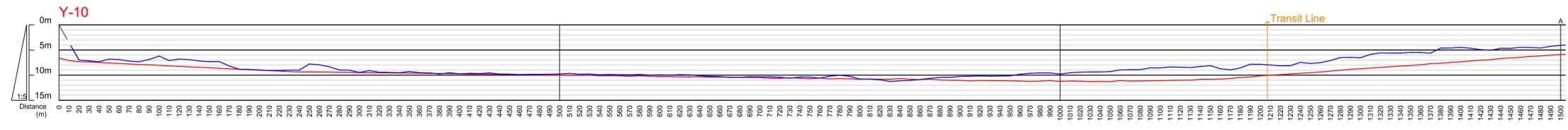
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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: **Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek**

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

Date of Survey: **From 06 May 2015 to 07 Jun 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	207,669.50	0
Transit Line	1,829,011.38	208,993.47	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
- Before Rainy Season
- After Rainy Season



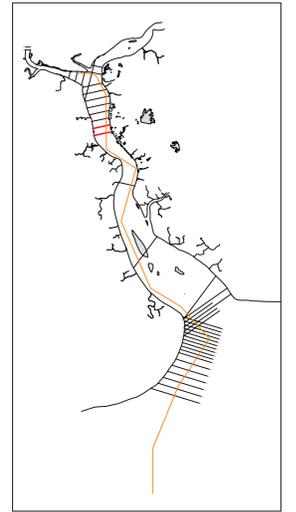
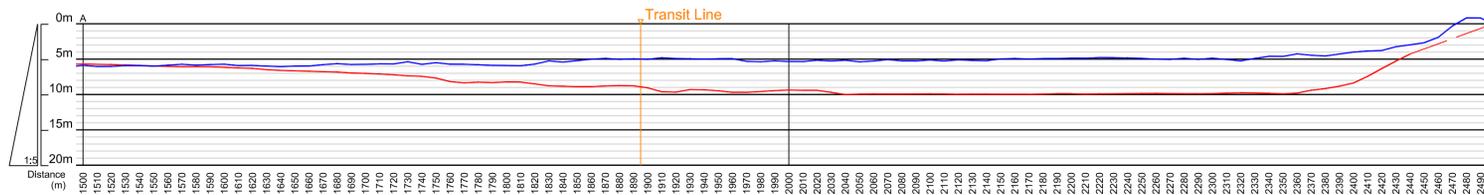
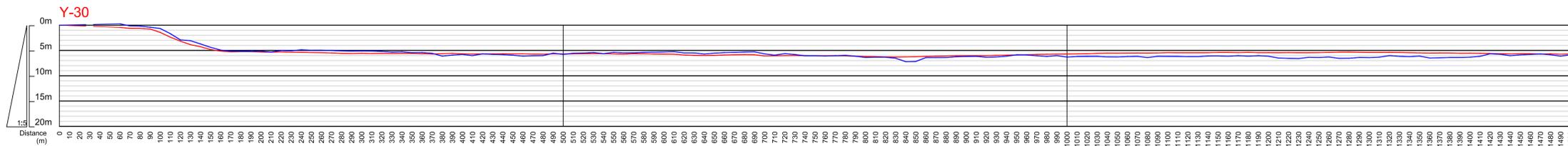
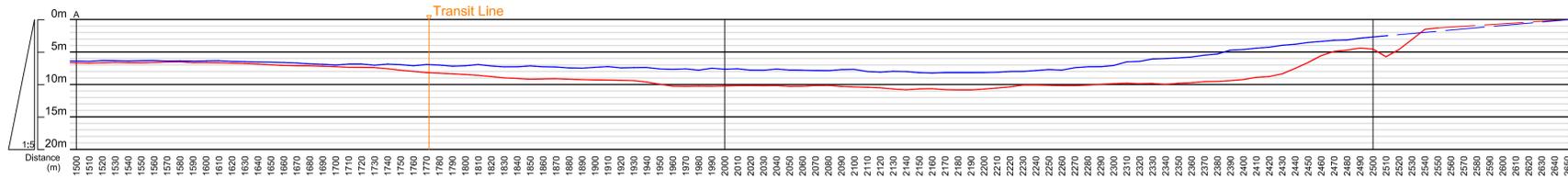
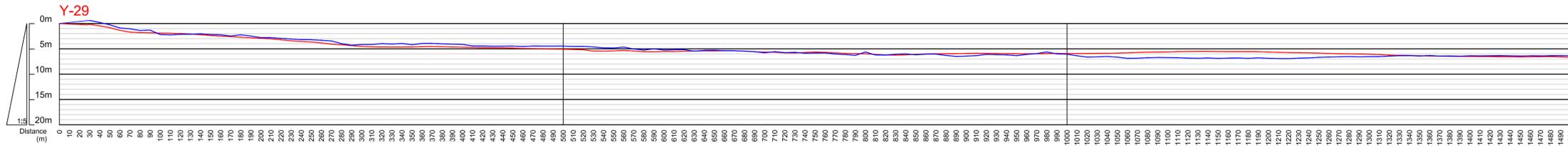
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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: **Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek**

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

Date of Survey: **From 06 May 2015 to 07 Jun 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)



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

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

— Before Rainy Season
— After Rainy Season

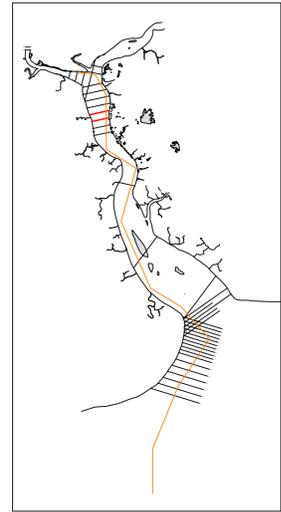
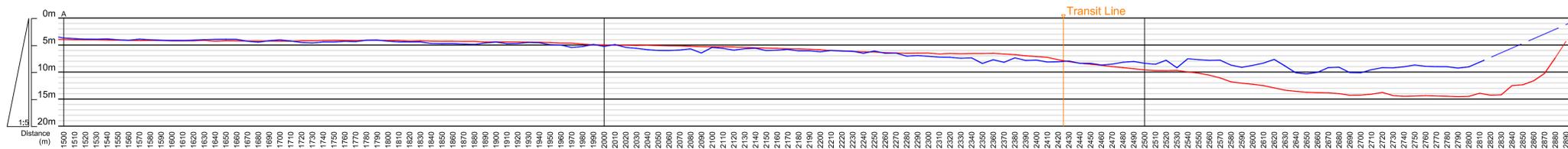
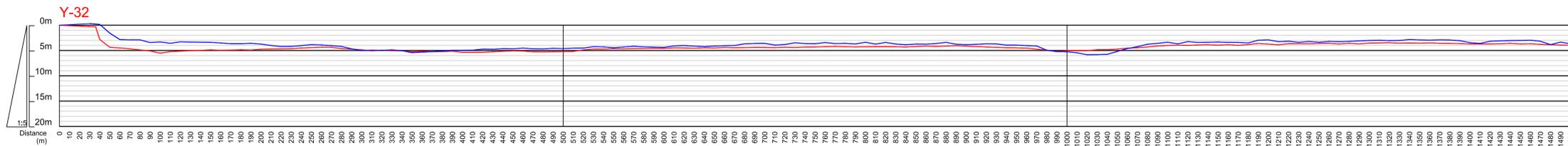
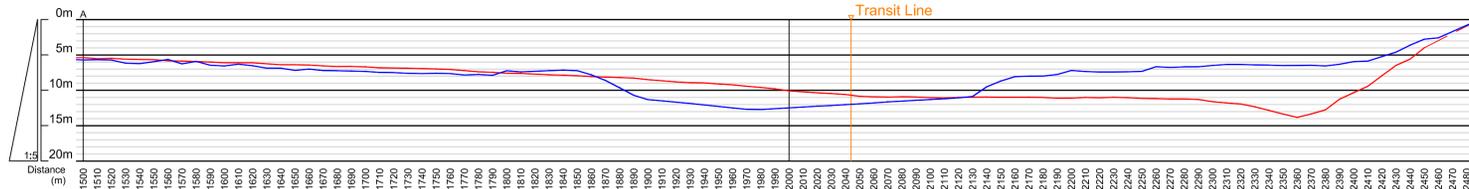
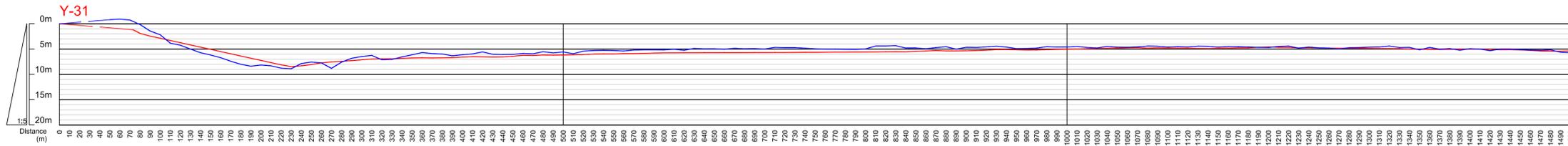


MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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: **Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek**

Projection: **UTM Zone 47 N**
 Ellipsoid: **WGS - 84**
 Datum Level: **Chart Datum of Yangon Port**
 Revision: **1.0.0**
 Date of Survey: **From 06 May 2015 to 07 Jun 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)



Y-31			
	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,848,761.33	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

Y-32			
	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	2,904

— Before Rainy Season
— After Rainy Season



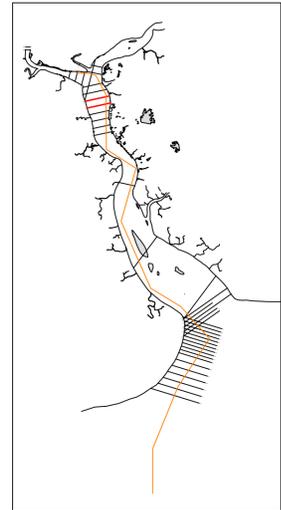
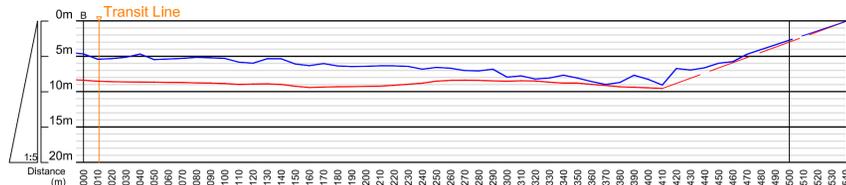
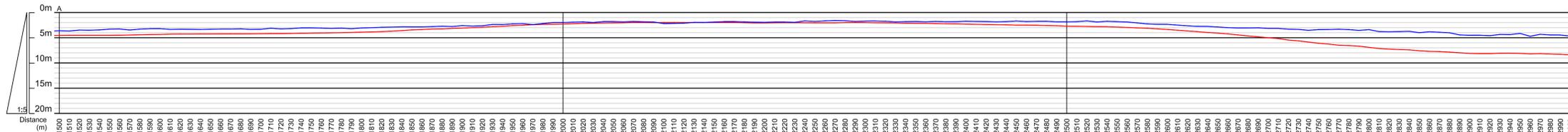
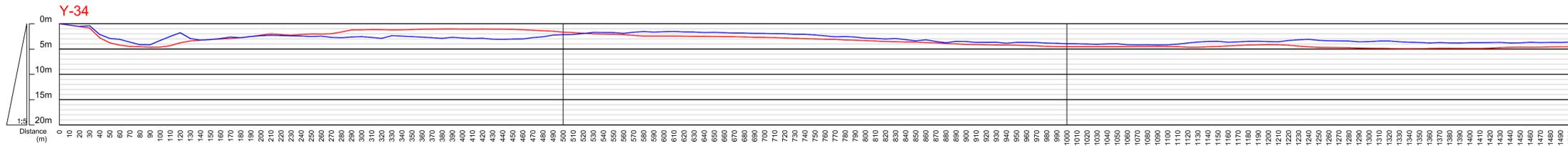
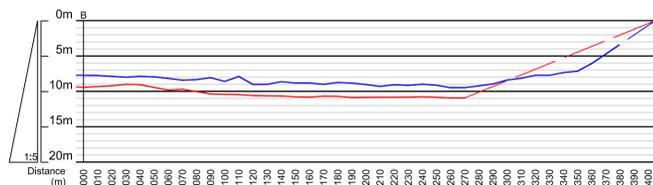
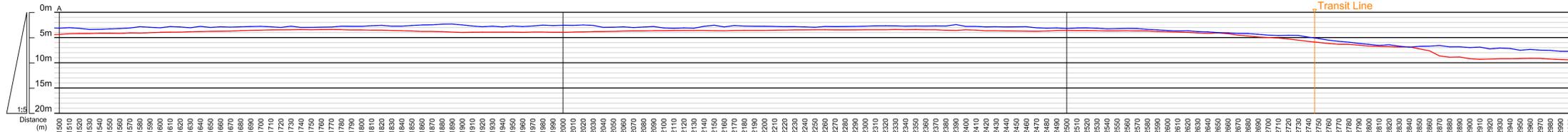
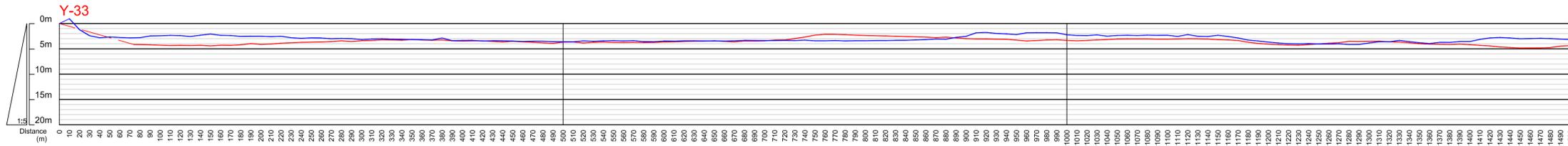
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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: **Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek**

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

Date of Survey: **From 06 May 2015 to 07 Jun 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)



Y-33	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,850,655.52	201,079.41	0
Transit Line	1,851,236.44	203,763.24	2,746
Left Bank	1,851,375.95	204,407.79	3,405

Y-34	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

— Before Rainy Season
 — 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

Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 06 May 2015 to 07 Jun 2015
 From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

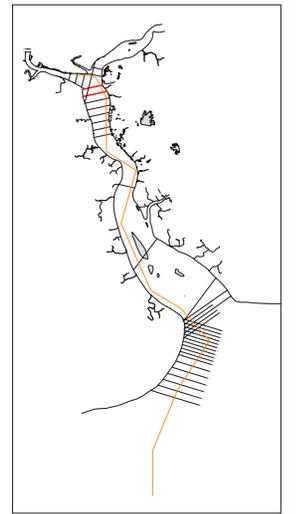
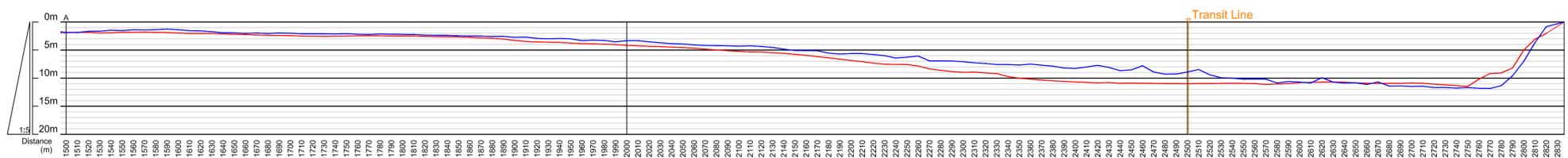
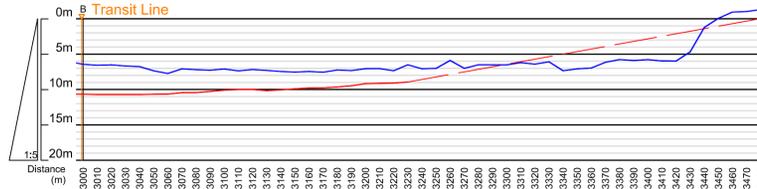
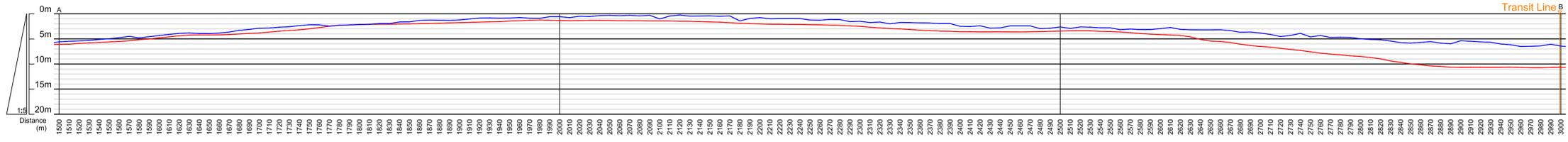
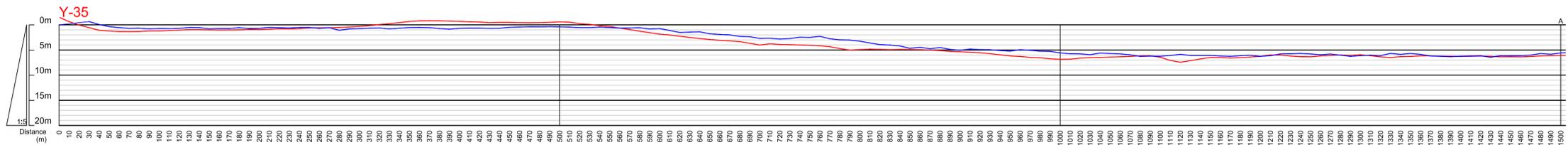
15 Jan 2016

Sheet No.

Y-33, Y-34

Scale

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



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	2 836

— Before Rainy Season
— After Rainy Season



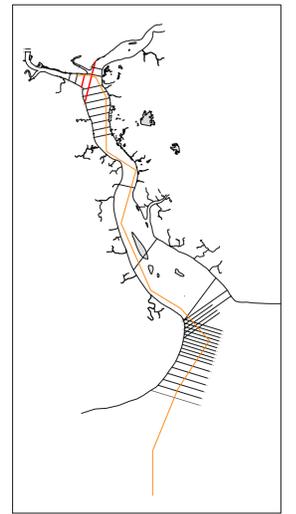
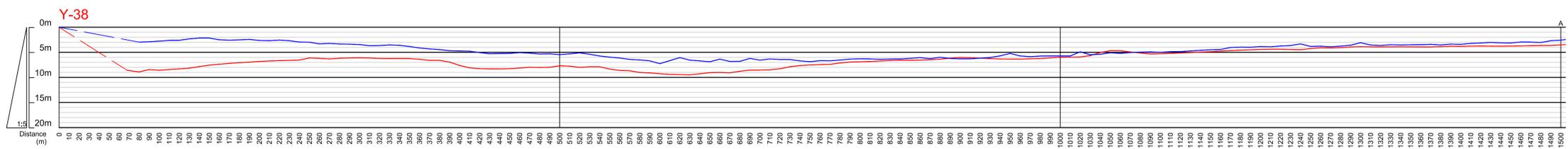
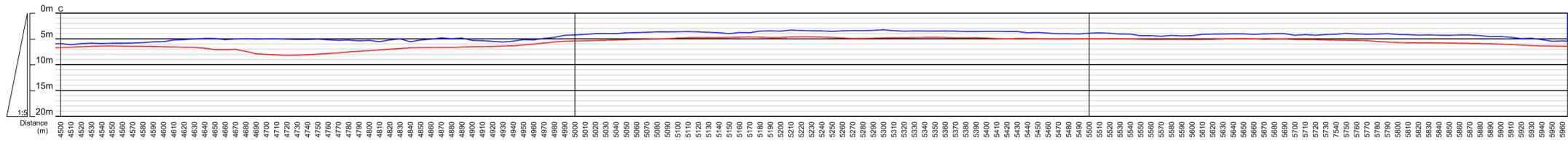
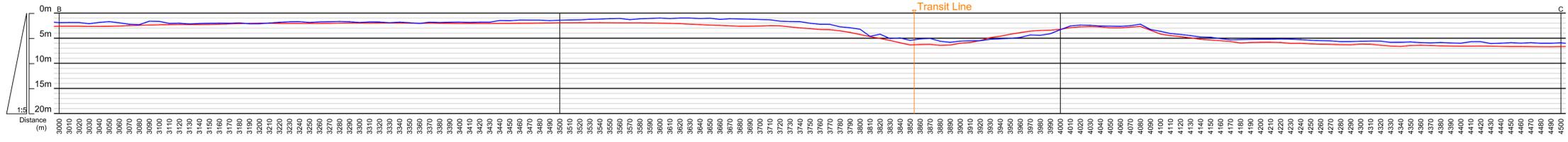
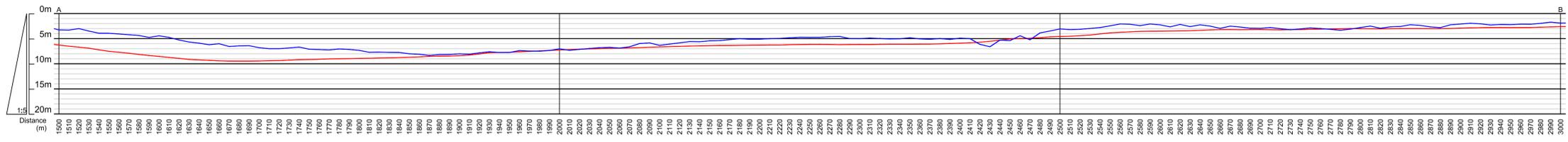
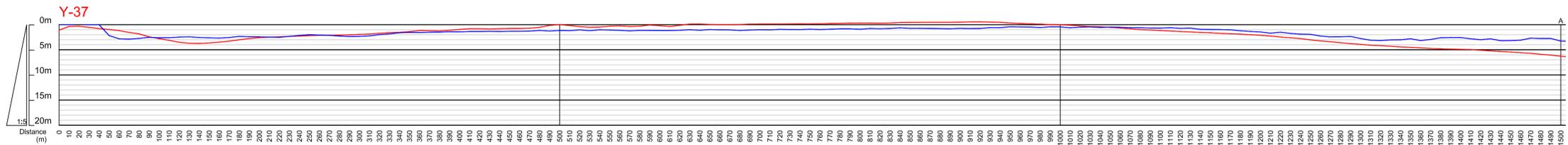
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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: **Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek**

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

Date of Survey: **From 06 May 2015 to 07 Jun 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)



Y-37	Northing(m)	Easting(m)	Distance(m)
Right Bank	1,851,736.07	200,761.09	0
Transit Line	1,855,471.09	201,711.63	3,854
Left Bank	1,857,517.06	202,232.31	5,965

Y-38	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

— Before Rainy Season
— After Rainy Season



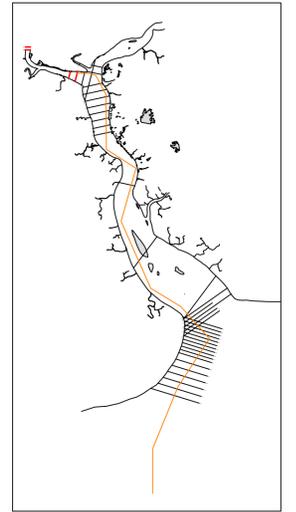
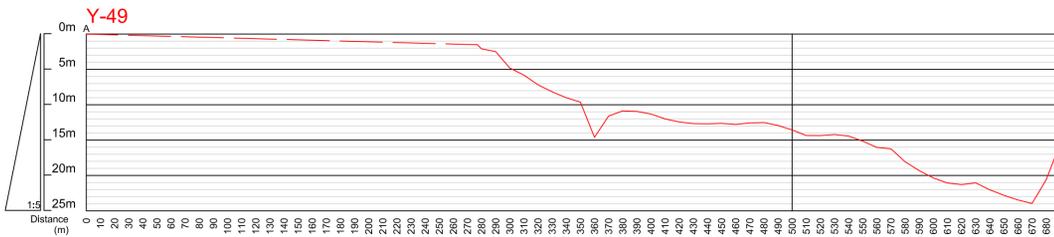
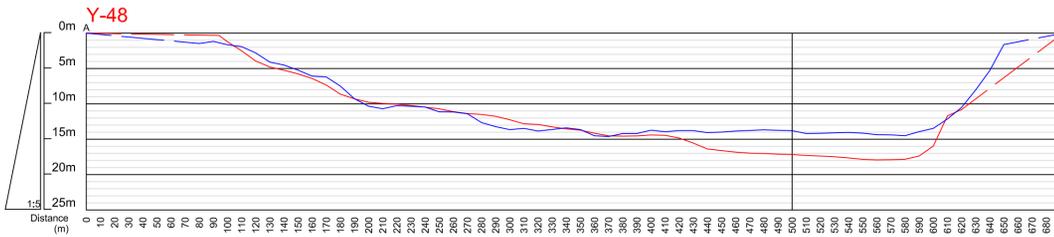
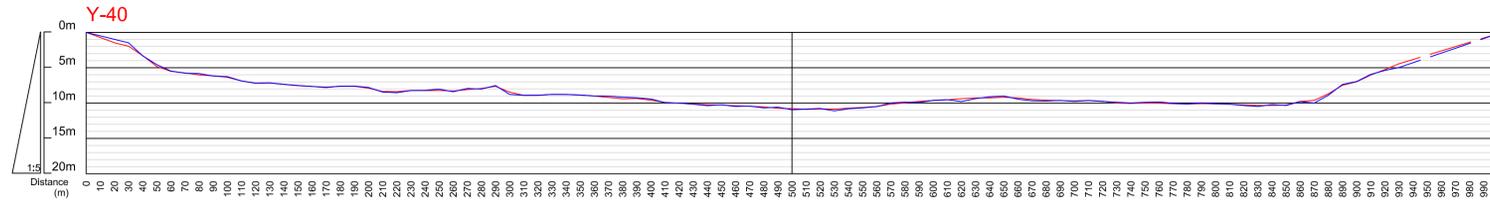
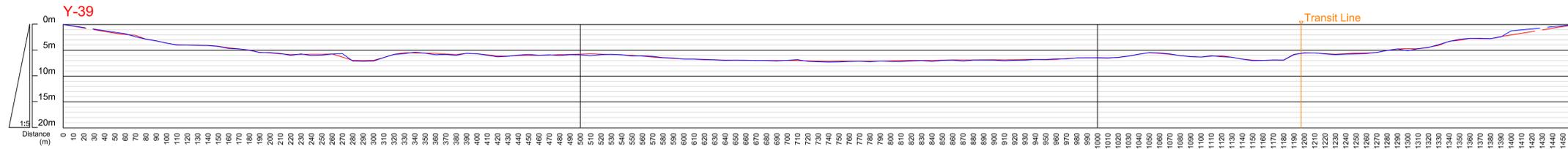
MYANMA PORT AUTHORITY (MPA)
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

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: **Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek**

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

Date of Survey: **From 06 May 2015 to 07 Jun 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

— Before Rainy Season
— 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

Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek

Projection

UTM Zone 47 N

Ellipsoid

WGS - 84

Datum Level

Chart Datum of Yangon Port

Revision

1.0.0

Date of Survey

From 06 May 2015 to 07 Jun 2015
From 09 Nov 2015 to 09 Dec 2015

Date of Drawing

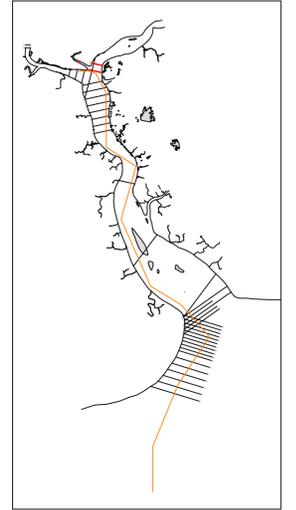
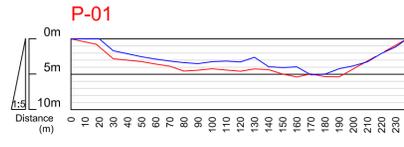
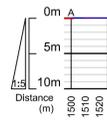
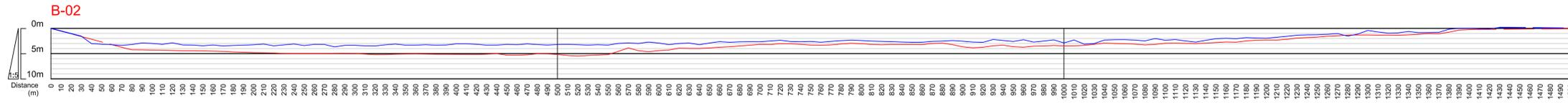
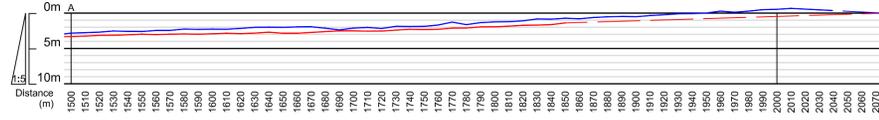
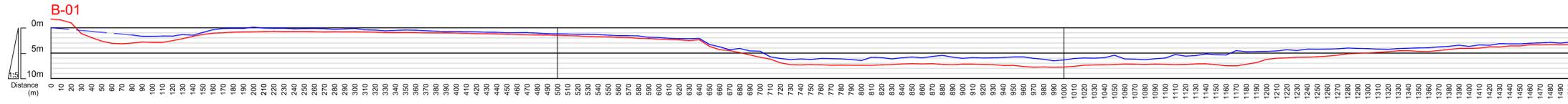
15 Jan 2016

Sheet No.

Y-39 , Y-40 , Y-48 , Y-49

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	1,856,986.48	200,059.16	238

— Before Rainy Season
— 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
Comparison of cross sections between before and after rainy season along the Yangon River, the Bago River and Pazundaung Creek

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

Date of Survey
 From 06 May 2015 to 07 Jun 2015
 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=1/1,500 (A1 Printing)
 H=5,000 V=1/1,000 (A3 Printing)