

Appendix B

Topographic Survey

LIST OF CONTENTS

1. Aerial Photographs.....	1
2. Photo Index Map/Aerial Photo Coordinates	8
3. Topographic Maps.....	13
4. River/Land Cross Section.....	19
5. Methodology	28
6. Photographs.....	33

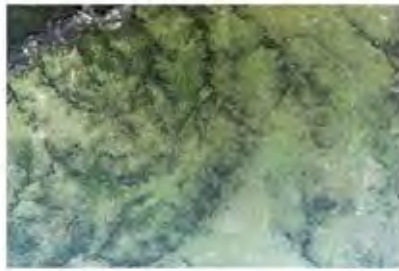
1. Aerial Photographs

Aerial Photographs
No.5-No.17

1:20,000 scale



5



10



6



11



7



12



8



13



9



14

Aerial Photographs
No.5-No.17

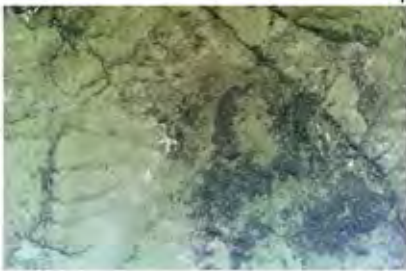
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15



16



17

Aerial Photographs
No.18-No.30

1:20,000 scale



18



23



19



24



20



25



21



26



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27



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29



30

Aerial Photographs
Outlet site No.31-No.35

1:6,000 scale



Aerial Photographs
Intake site No.36-No.41

1:6,000 scale



36



40



37



41



38



39

Aerial Photographs
Intake site No.42-No.47

1:6,000 scale



42



46



43



47

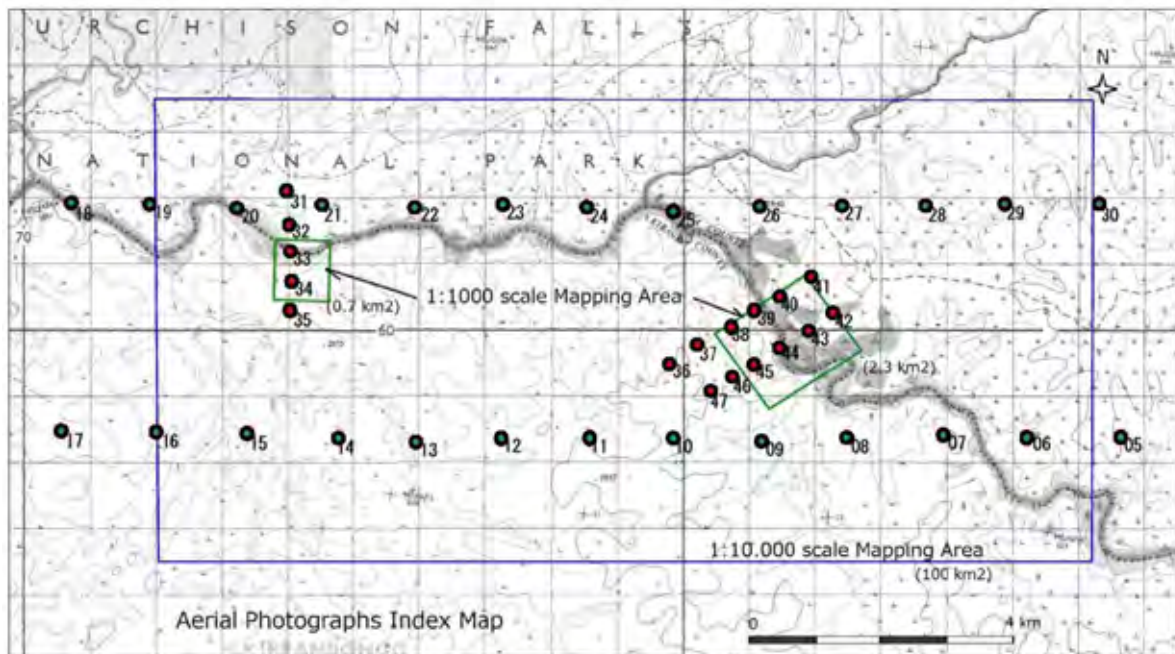


44



45

2. Photo Index Map/Aerial Photo Coordinates



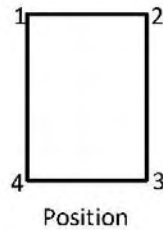
Coordinates of 4 Corners of Photographs

20,000 scale

RUN 1

		Easting	Northing
1-005	1	384615.20	261469.39
	2	388524.06	261461.52
	3	388465.03	255497.20
	4	384605.66	255533.15
1-006	1	383209.96	261251.33
	2	387064.03	261279.84
	3	387151.55	255341.51
	4	383239.56	255292.25
1-007	1	381912.31	261396.43
	2	385814.47	261447.81
	3	385866.51	255489.84
	4	381998.32	255450.94
1-008	1	380631.64	261289.47
	2	384504.11	261322.28
	3	384552.59	255364.25
	4	380657.57	255348.70
1-009	1	379383.78	261264.67
	2	383234.06	261214.11
	3	383173.19	255259.45
	4	379262.10	255328.61
1-010	1	378054.84	261349.84
	2	381918.88	261309.58
	3	381849.59	255364.92
	4	377966.90	255427.54
1-011	1	376641.50	261390.63
	2	380526.94	261429.66
	3	380568.13	255493.98
	4	376708.85	255462.16
1-012	1	375325.74	261250.61
	2	379174.06	261268.45
	3	379230.26	255337.31
	4	375331.85	255313.97
1-013	1	373988.40	261239.97
	2	377838.41	261258.52
	3	377906.44	255328.58
	4	374003.01	255292.08
1-014	1	372676.52	261340.07
	2	376553.71	261345.80
	3	376570.33	255411.34
	4	372692.74	255395.60

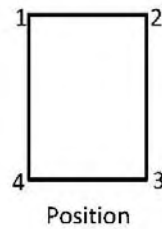
		Easting	Northing
1-015	1	371360.96	261325.28
	2	375236.26	261337.85
	3	375262.14	255399.90
	4	371381.41	255382.17
1-016	1	370027.19	261359.80
	2	373919.31	261387.41
	3	373958.56	255442.26
	4	370083.82	255407.40
1-017	1	368699.41	261245.61
	2	372561.81	261241.66
	3	372604.82	255299.66
	4	368689.28	255272.62



Coordinates of 4 Corners of Photographs
 20,000 scale
 RUN 2

		Easting	Northing
2-018	1	368763.52	264891.93
	2	372662.50	264890.08
	3	372647.65	258924.92
	4	368760.69	258934.76
2-019	1	370061.57	264883.17
	2	373938.38	264881.44
	3	373939.38	258929.70
	4	370052.88	258938.41
2-020	1	371401.81	264912.40
	2	375291.07	264902.39
	3	375267.54	258949.77
	4	371393.24	258965.46
2-021	1	372804.50	264887.17
	2	376682.76	264803.32
	3	376543.04	258842.69
	4	372643.82	258947.51
2-022	1	374063.05	265035.81
	2	378007.19	265047.29
	3	377956.27	259059.71
	4	374102.72	259075.99
2-023	1	375298.02	264936.24
	2	379205.37	264905.07
	3	379175.40	258952.87
	4	375288.13	258948.24
2-024	1	376662.90	264943.30
	2	380568.92	264905.98
	3	380516.06	258948.88
	4	376631.75	258966.59
2-025	1	377970.10	264979.23
	2	381817.37	264893.74
	3	381763.50	258957.02
	4	377891.14	258998.52
2-026	1	379216.76	264952.62
	2	383126.30	264974.05
	3	383158.10	259040.69
	4	379300.87	258987.56
2-027	1	380679.16	264912.90
	2	384564.21	264887.26
	3	384509.67	258941.03
	4	380638.18	258977.47

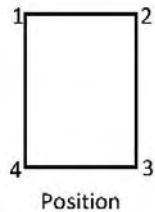
		Easting	Northing
2-028	1	381904.07	265072.78
	2	385832.33	265040.94
	3	385756.66	259108.30
	4	381924.40	259114.09
2-029	1	383297.36	264913.44
	2	387178.19	264875.69
	3	387121.03	258940.06
	4	383248.28	258971.73
2-030	1	384582.05	264961.75
	2	388475.43	264928.41
	3	388420.06	258999.84
	4	384562.15	259015.98



Coordinates of 4 Corners of Photographs

6,000 scale

RUN3			
		Easting	Northing
3-042	1	381327.36	260502.47
	2	382107.03	261048.75
	3	382949.11	259859.01
	4	382170.42	259302.42
3-043	1	381021.15	260283.24
	2	381795.91	260834.32
	3	382643.86	259651.16
	4	381868.90	259094.20
3-044	1	380700.16	260029.19
	2	381472.16	260570.18
	3	382320.99	259405.51
	4	381551.21	258833.62
3-045	1	380391.43	259849.67
	2	381165.54	260403.45
	3	382014.85	259226.07
	4	381245.13	258665.16
3-046	1	380075.44	259609.41
	2	380844.65	260162.51
	3	381700.53	259001.41
	4	380940.72	258431.03
3-047	1	379778.26	259390.44
	2	380548.66	259937.50
	3	381400.04	258771.70
	4	380635.10	258202.17



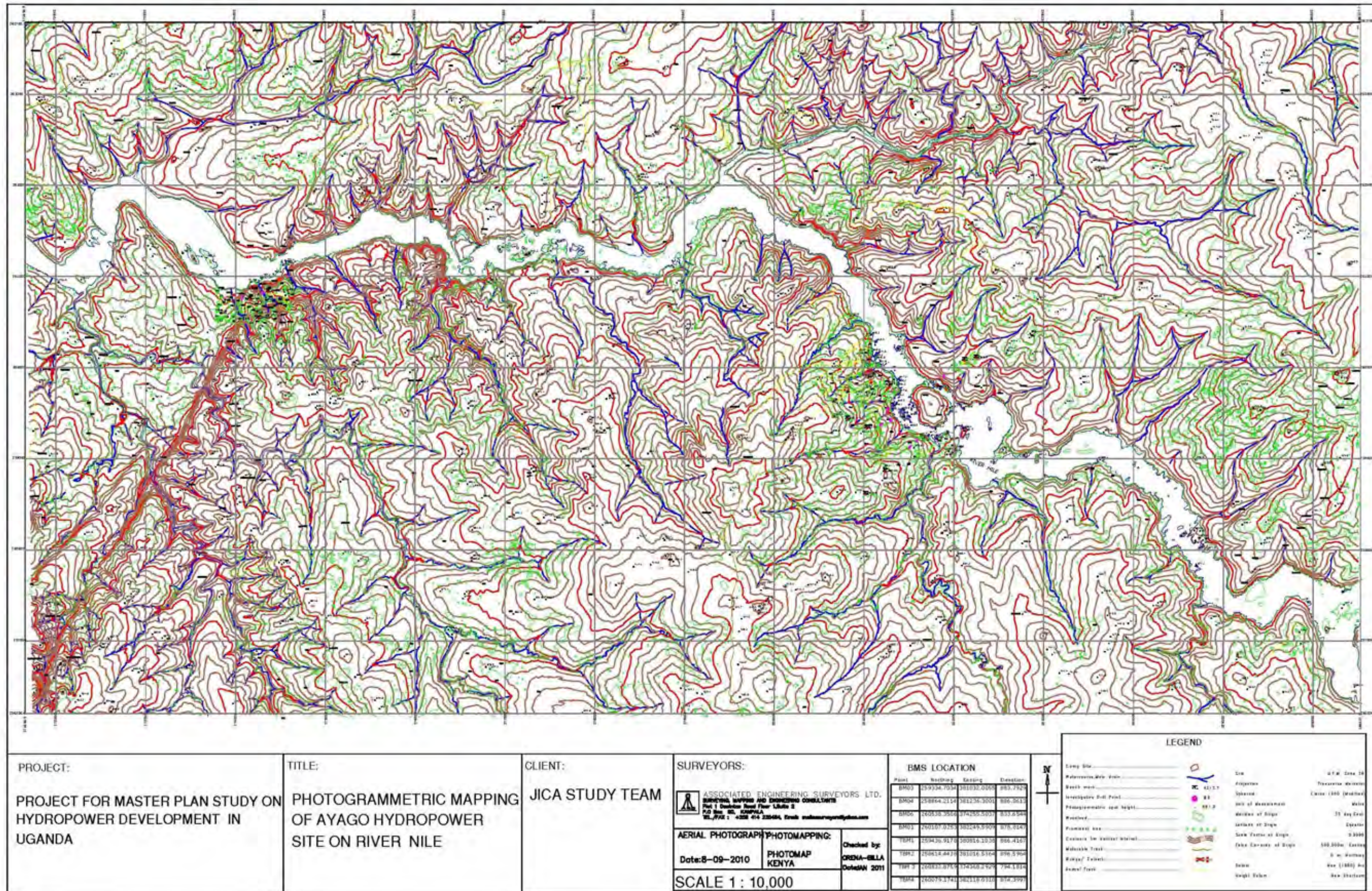
RUN4

		Easting	Northing
4-036	1	379248.45	260283.05
	2	380029.82	260842.84
	3	380879.92	259628.56
	4	380083.64	259087.49
4-037	1	379497.19	260481.41
	2	380283.65	261044.34
	3	381138.59	259843.69
	4	380358.56	259282.42
4-038	1	379806.17	260676.21
	2	380589.82	261227.98
	3	381444.24	260037.01
	4	380664.71	259470.26
4-039	1	380112.11	260935.30
	2	380897.43	261501.96
	3	381747.29	260303.78
	4	380977.38	259749.98
4-040	1	380424.72	261143.42
	2	381210.68	261704.33
	3	382060.95	260505.30
	4	381284.29	259949.07
4-041	1	380733.81	261344.05
	2	381521.99	261892.56
	3	382362.61	260693.87
	4	381579.35	260139.26
5-031	1	374808.33	262280.77
	2	374766.31	261291.41
	3	373237.36	261342.14
	4	373273.49	262358.03

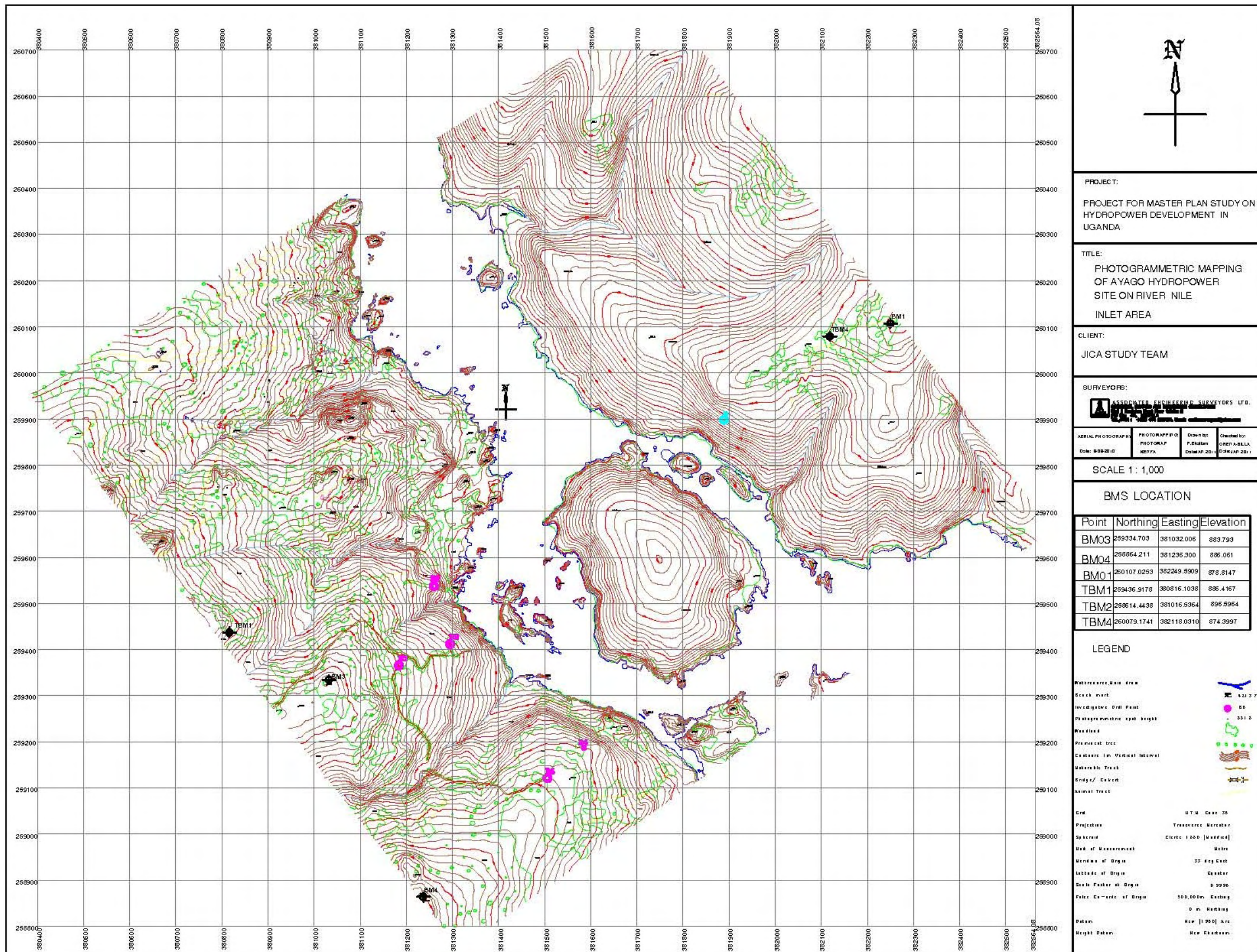
RUN5

5-032	1	374811.19	261921.71
	2	374788.84	260926.27
	3	373254.49	260954.59
	4	373277.67	261963.63
5-033	1	374822.69	261553.17
	2	374813.19	260551.61
	3	373278.21	260570.62
	4	373291.77	261574.04
5-034	1	374840.52	261159.25
	2	374806.29	260157.26
	3	373272.47	260210.83
	4	373307.02	261211.53
5-035	1	374830.84	260786.45
	2	374802.72	259785.25
	3	373271.11	259831.38
	4	373300.46	260830.59

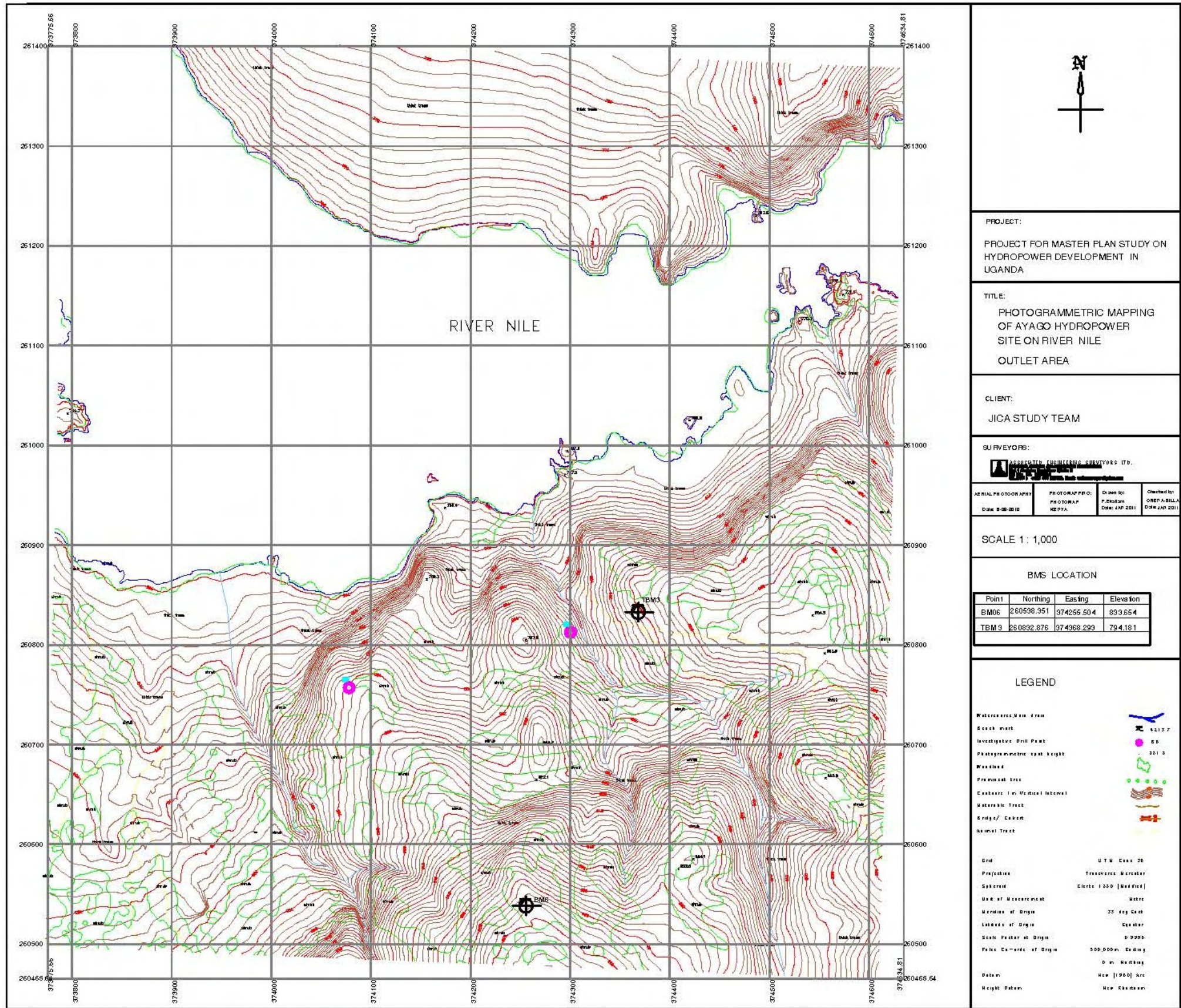
3. Topographic Maps



Topographic Map of Project Area, scale 1:10,000 (original)

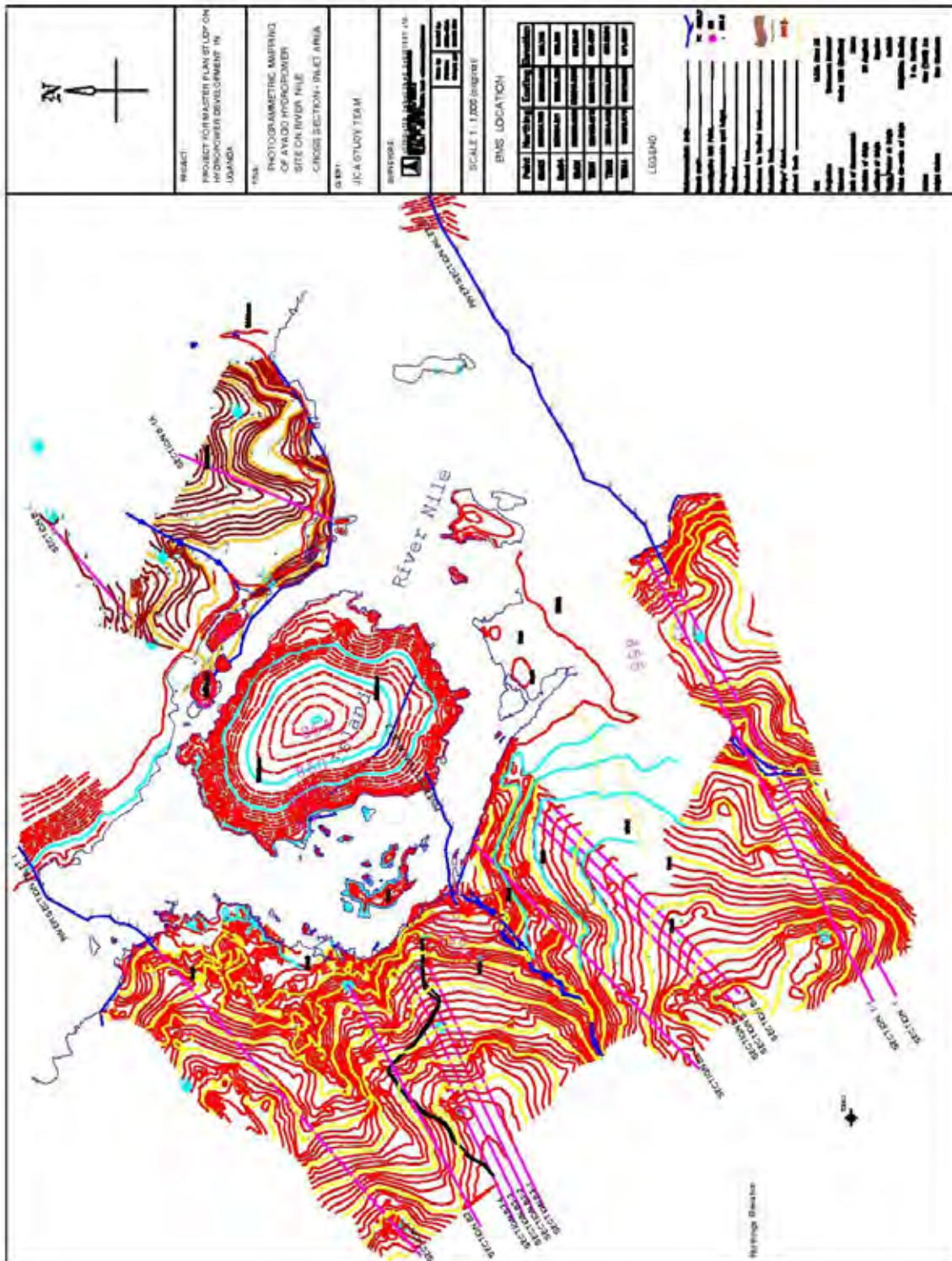


Topographic Map of Inlet Area, scale 1:1,000 (original)



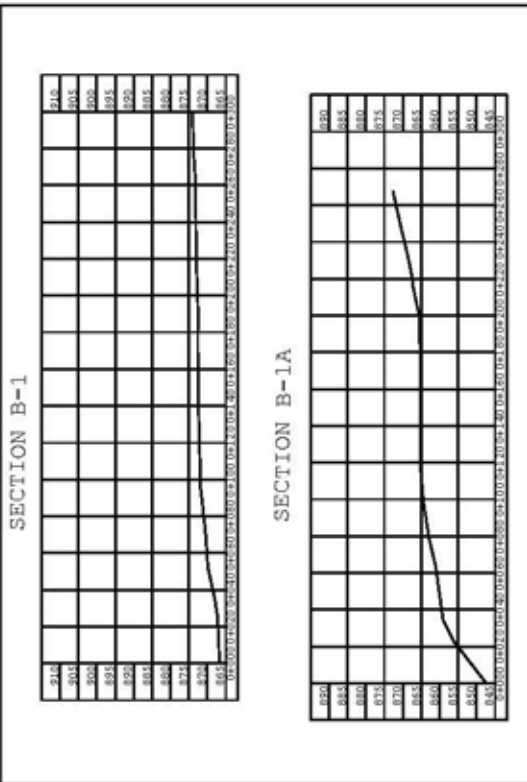
Topographic Map of Outlet Area, scale 1:1,000 (original)

4. River/Land Cross Section

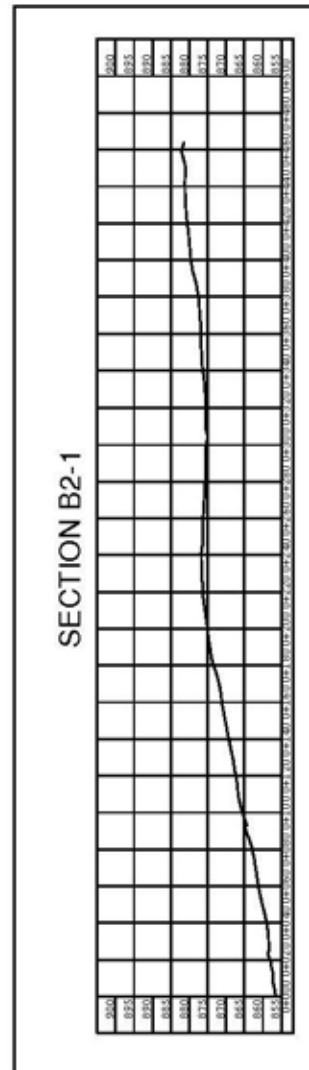


Location Map of Cross Sections in Inlet Area

SECTION S ALONG DRILL HOLE B1



SECTION S ALONG DRILL HOLE B2



PROJECT FOR MASTER PLAN STUDY ON HYDROPOWER DEVELOPMENT IN UGANDA

TITLE:
PHOTGRAMMETRIC MAPPING OF AYAGO HYDROPOWER SITE ON RIVER NILE
CROSS SECTIONS INLET AREA

CLIENT:
JICA STUDY TEAM

SURVEYORS:
ASSOCIATED ENGINEERING SURVEYORS LTD

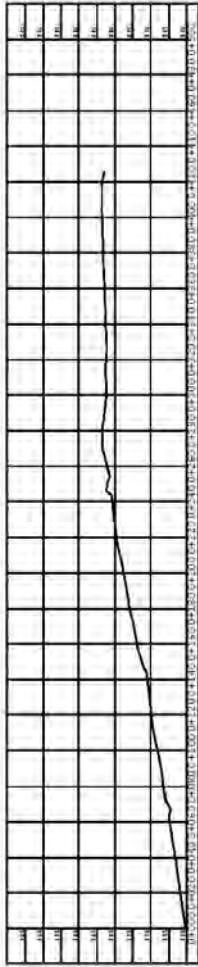


Drawn by:
Checked by:
Date: 2011

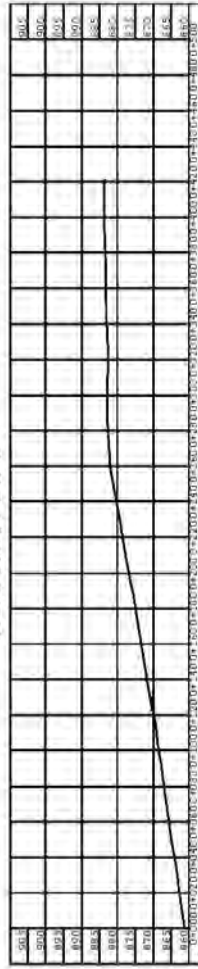
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SECTION S ALONG DRILL HOLE B 3

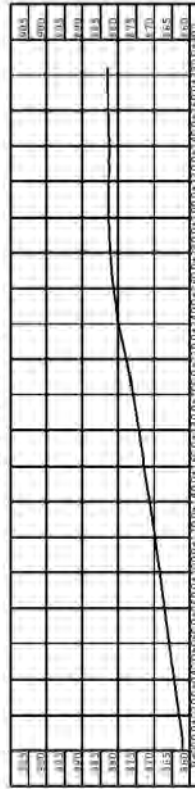
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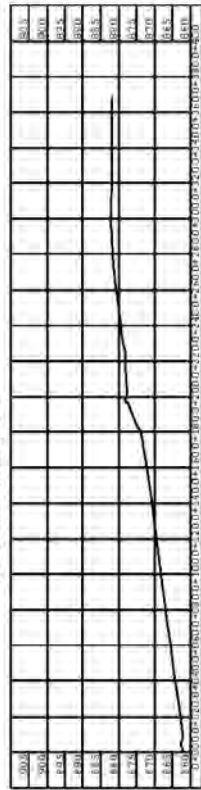
SECTION B3-3



SECTION B3-2



SECTION B3-1



PROJECT FOR MASTER PLAN STUDY ON
HYDROPOWER DEVELOPMENT IN
UGANDA

TITLE
PHOTOGRAMMETRIC MAPPING
OF AYAGO HYDROPOWER
SITE ON RIVER NILE
CROSS SECTIONS INLET AREA

CLIENT
JICA STUDY TEAM

SURVEYORS
ASSOCIATED ENGINEERING
SURVEYORS LTD.
P.O. BOX 7000 Kampala, Uganda



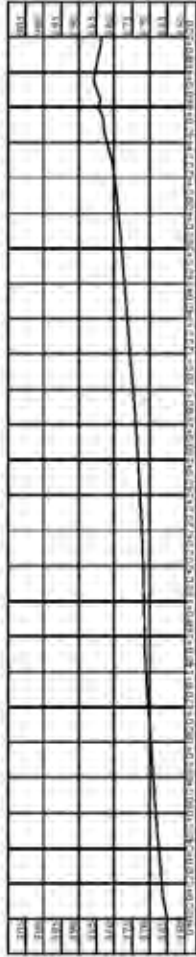
Drawn by
P. K. M. M. M.
Date: 06/07/2011

Checked by
G. M. M. M. M.
Date: 06/07/2011

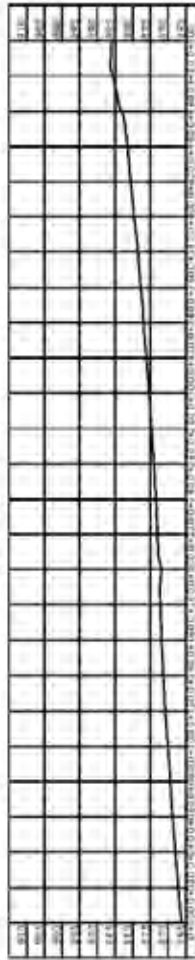
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SECTION S ALONG DRILL HOLE B 4

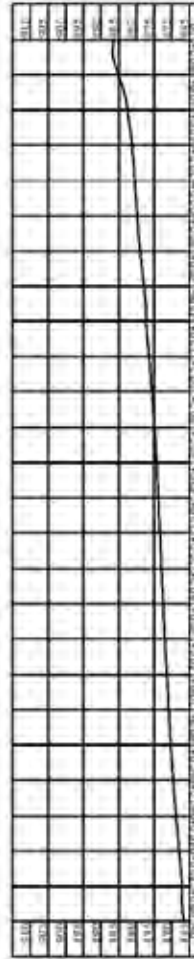
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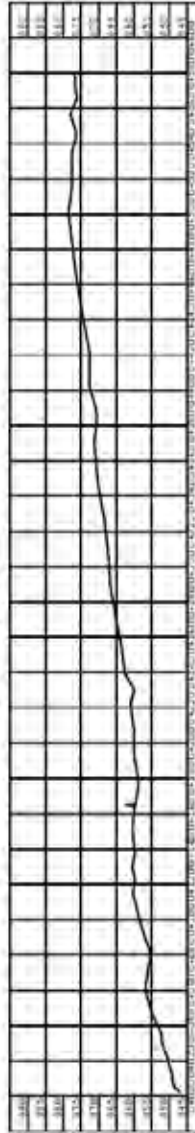
SECTION B4-2



SECTION B4-3



SECTION B4-4



PROJECT FOR MASTER PLAN STUDY ON
HYDROPOWER DEVELOPMENT IN
UGANDA.

TITLE
PHOTOPHOTOMETRIC MAPPING
OF AYAGO HYDROPOWER
SITE ON RIVER Nile
CROSS SECTIONS INLET AREA

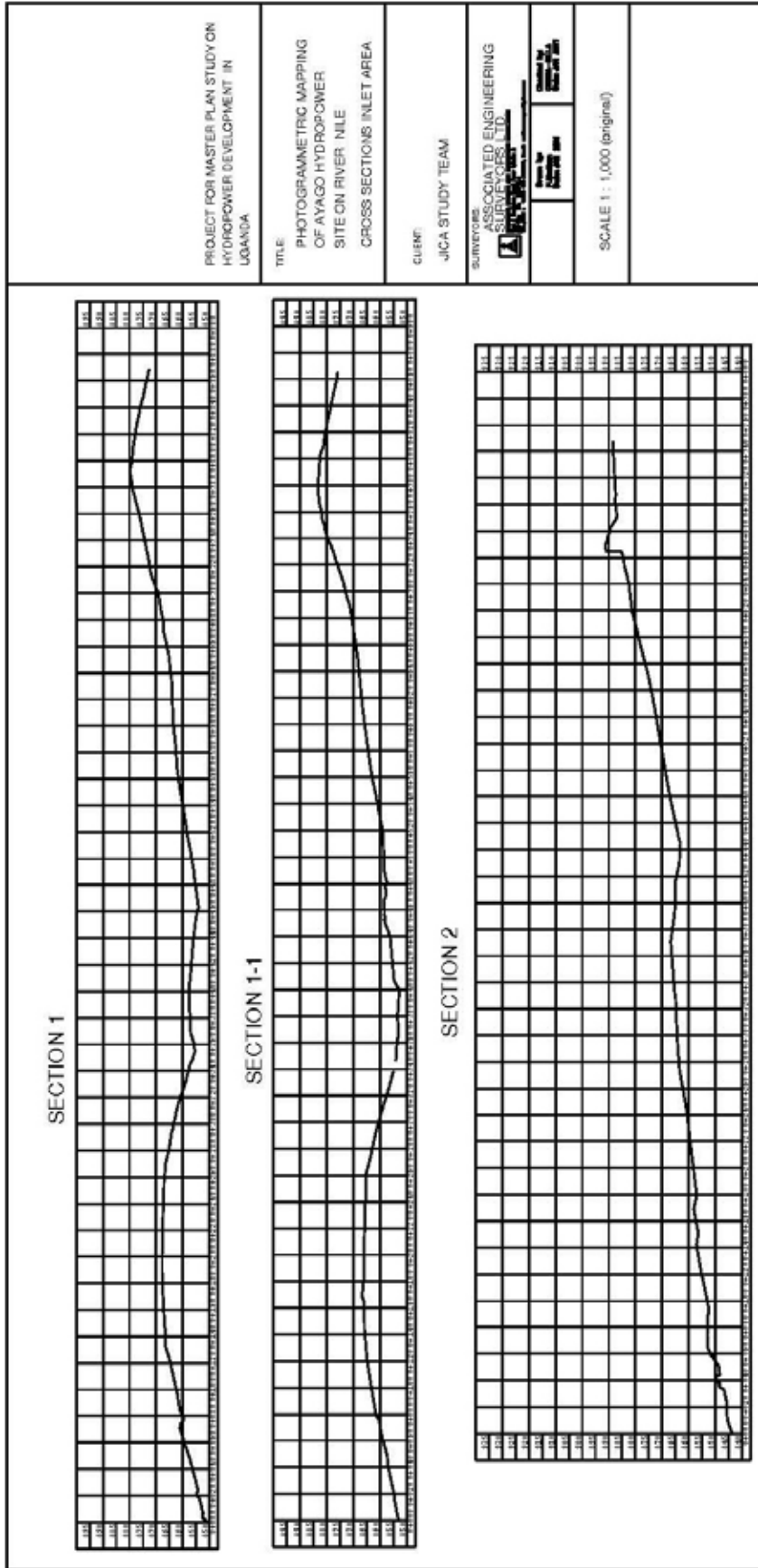
CLIENT
JICA STUDY TEAM

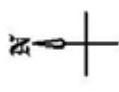
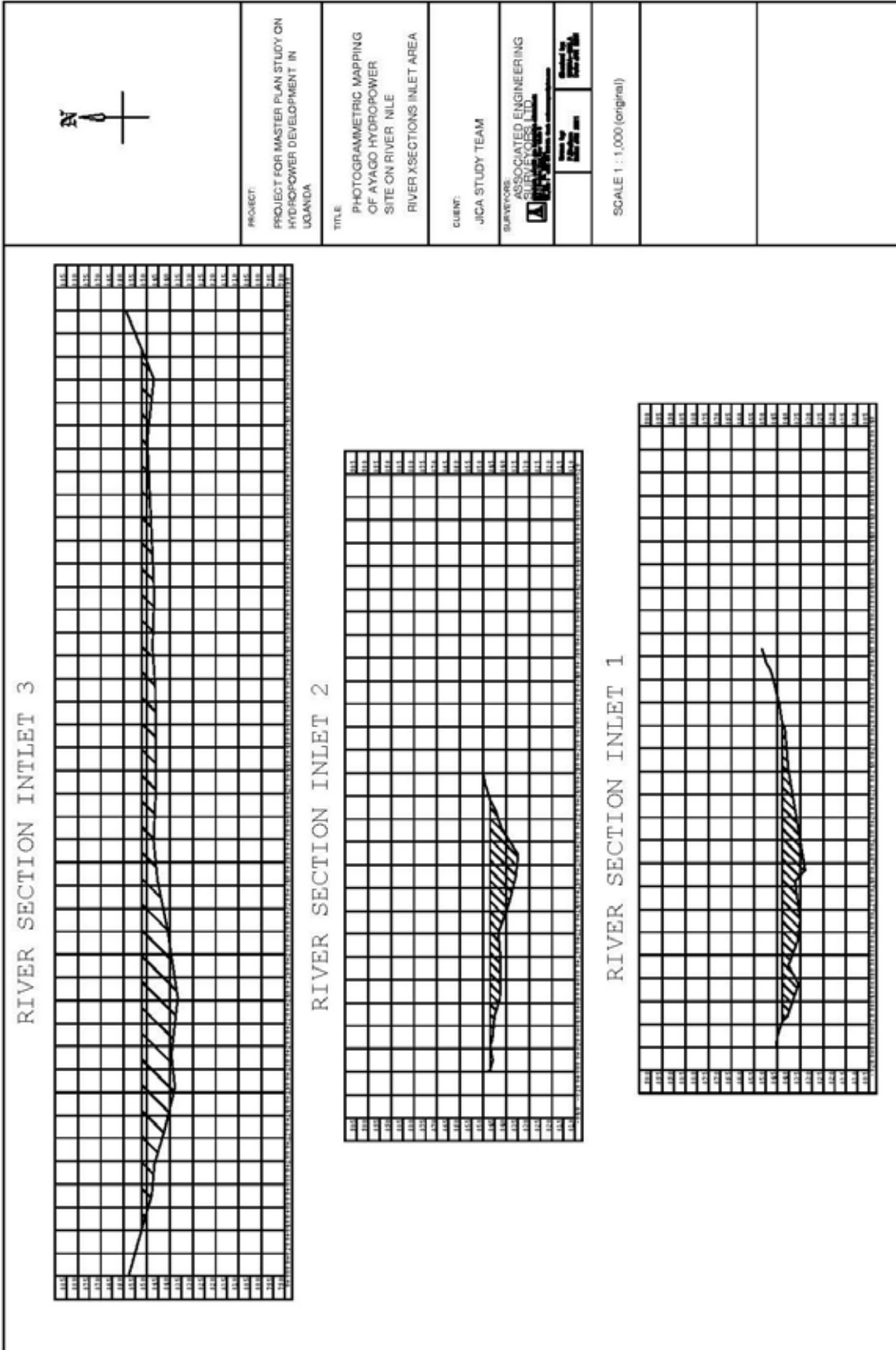
SURVEYORS
ASSOCIATED ENGINEERING
SURVEYORS LTD.
P.O. BOX 1000, KAMPALA, UGANDA
TEL: 011-256-414-2111

Drawn by
A. Ochieng
Date: 20.01.2011

Checked by
G. Ochieng
Date: 20.01.2011

SCALE 1 : 1,000 (original)





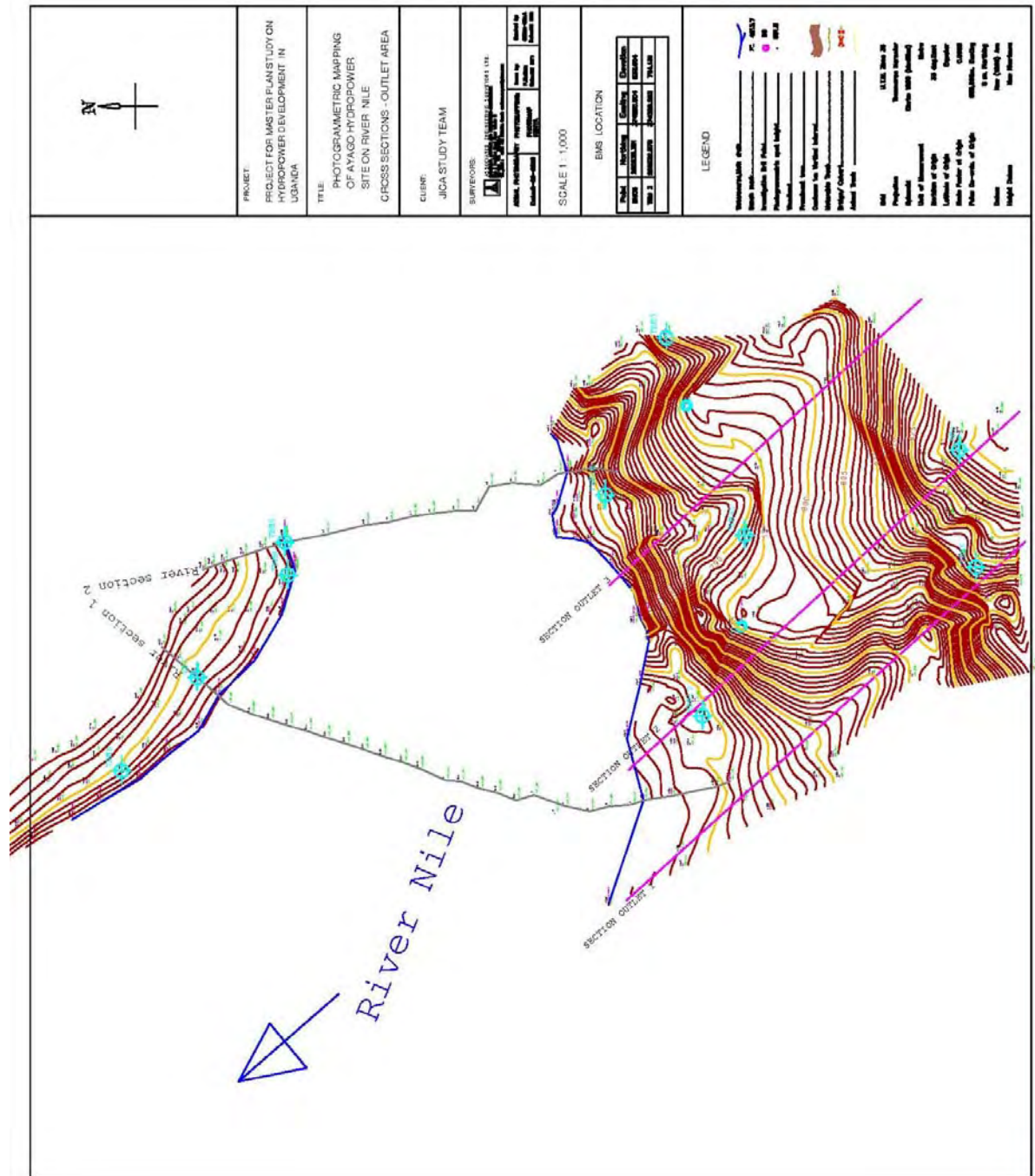
PROJECT:
PROJECT FOR MASTER PLAN STUDY ON
HYDROPOWER DEVELOPMENT IN
UGANDA

TITLE:
PHOTGRAMMETRIC MAPPING
OF AVAGO HYDROPOWER
SITE ON RIVER NILE
RIVER XSECTIONS INLET AREA

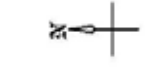
CLIENT:
JICA STUDY TEAM

SURVEYOR:
ASSOCIATED ENGINEERING
SURVEYORS LTD.
AES
Incorporated in Uganda
No. 100/2004
REG. NO. 100/2004

SCALE 1 : 1,000 (original)



Location Map of Cross Sections in Outlet Area



PROJECT FOR MASTER PLAN STUDY ON HYDROPOWER DEVELOPMENT IN LOUNGLI

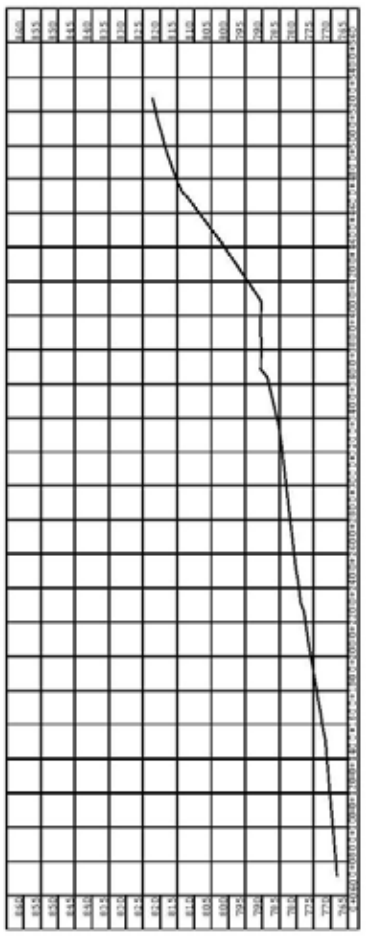
TITLE: PHOTOGRAMMETRIC MAPPING OF AYAGO HYDROPOWER SITE ON RIVER NILE CHINOG8 SECTION48 - OUTLET AREA

DATE: JCA STUDY TEAM

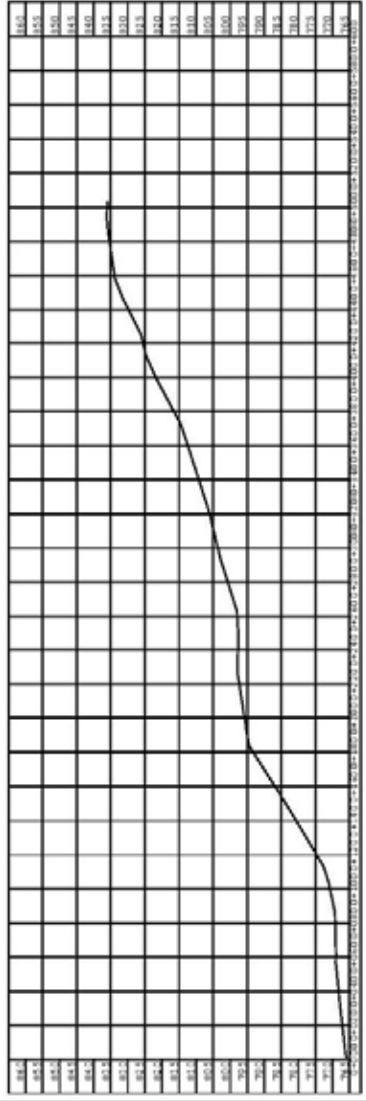
COMPANY: ASSOCIATED ENGINEERING CONSULTANTS

SCALE 1:1,000 (vertical)

SECTION OUTLET 1



SECTION OUTLET 2



SECTION OUTLET 3

