

7. その他の資料・情報

7-1 交通量調査

交通量調査は、下記の要領で実施し、表に示す結果を得た。

実施日：2008年3月20日（木）

場所：Rawal 橋ブカ側

実施時間：午前6時から午後6時まで12時間

天候：曇りのち晴れ

1) アラワ方向交通量

種別	06:00	08:00	10:00	12:00	14:00	16:00	合計
	-08:00	-10:00	-12:00	-14:00	-16:00	-18:00	
4WD	1	2	6	5	5	5	24
トラック	0	1	9	18	22	12	62
車両合計	1	3	15	23	27	17	86
乗客	5	25	163	345	615	247	1400
歩行者	3	2	19	2	1	0	27

2) ブカ方向交通量

種別	06:00	08:00	10:00	12:00	14:00	16:00	合計
	-08:00	-10:00	-12:00	-14:00	-16:00	-18:00	
4WD	10	7	2	2	1	2	24
トラック	16	24	3	1	2	2	48
車両合計	26	31	5	3	3	4	72
乗客	359	548	54	10	17	29	1017
歩行者	11	8	2	0	1	1	23

3) 両方向交通量

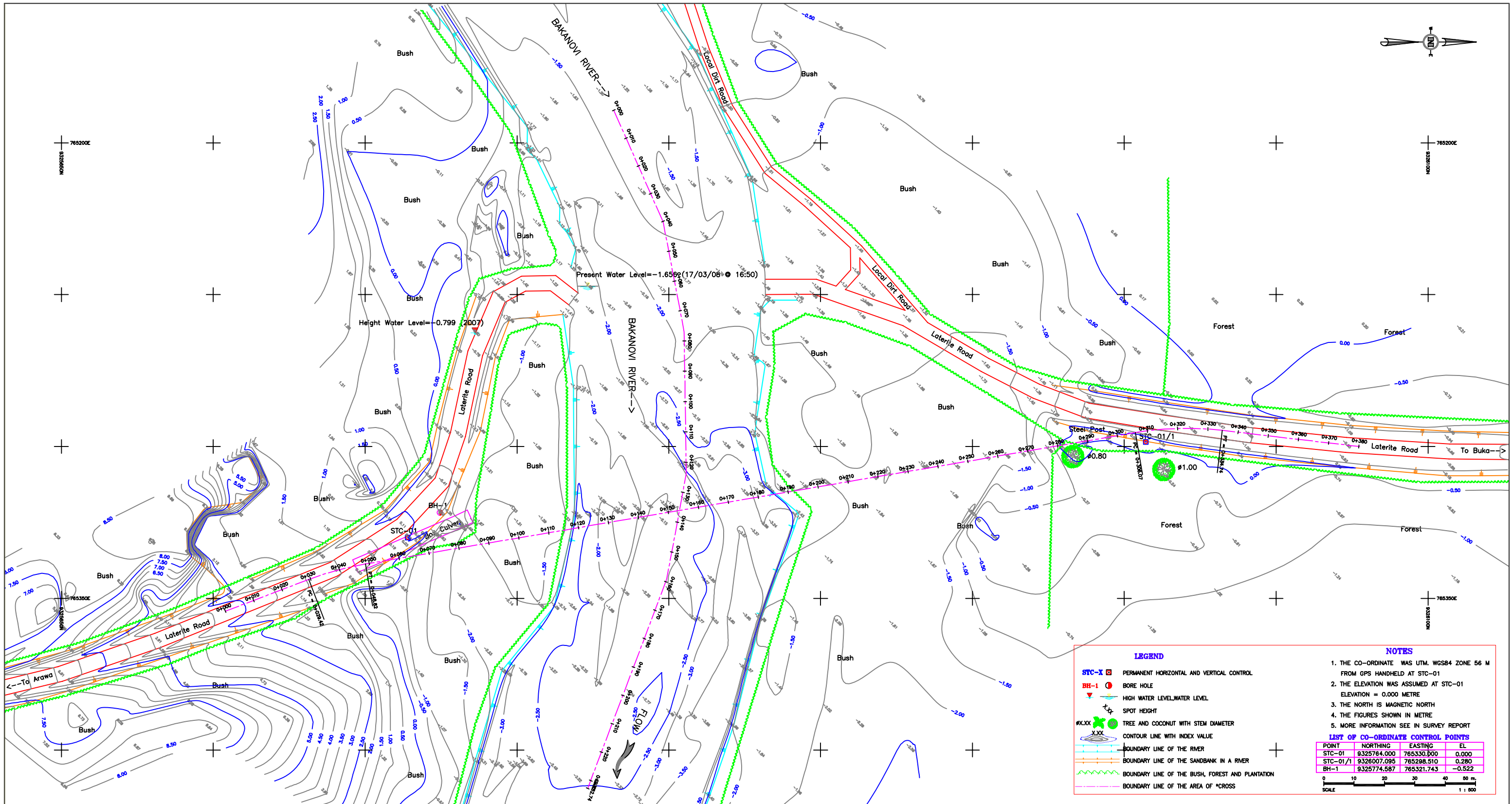
種別	06:00	08:00	10:00	12:00	14:00	16:00	合計
	-08:00	-10:00	-12:00	-14:00	-16:00	-18:00	
4WD	11	9	8	7	6	7	48
トラック	16	25	12	19	24	14	110
車両合計	27	34	20	26	30	21	158
乗客	364	573	217	355	632	276	2417
歩行者	14	10	21	2	2	1	50

3月20日は、21日から24日までのイースター休暇の前日であったため、交通量は比較的多く、各車両にはほぼ満席の状態であった。乗客以外の貨物はブカへはコプラやカカオの袋詰めまた、ブカから来る車には食糧や燃料を搭載した車両が多かった。

7-2 測量調査結果

本調査では、対象橋梁と現況の道路状況を把握するため及び河川の状況を明らかにするために地形測量、道路及び河川の縦・横断測量を実施し、各橋梁について平面図、縦断面図、横断面図を作成した。これらの測量には、トータルステーション・GPS 測量機器を使用して実施した。各架橋地点には、基準点となる仮ベンチマーク（各橋梁2箇所）を調査団の指示の基、設置した。

各架橋地点の測量平面図、ベンチマーク及びベンチマーク座標を、次頁以降の図面に示す。



DEPARTMENT OF WORKS

THE PROJECT FOR CONSTRUCTION OF BRIDGES ON BOUGAINVILLE
COASTAL TRUNK ROAD IN THE INDEPENDENT STATE OF PAPUA NEW GUINEA

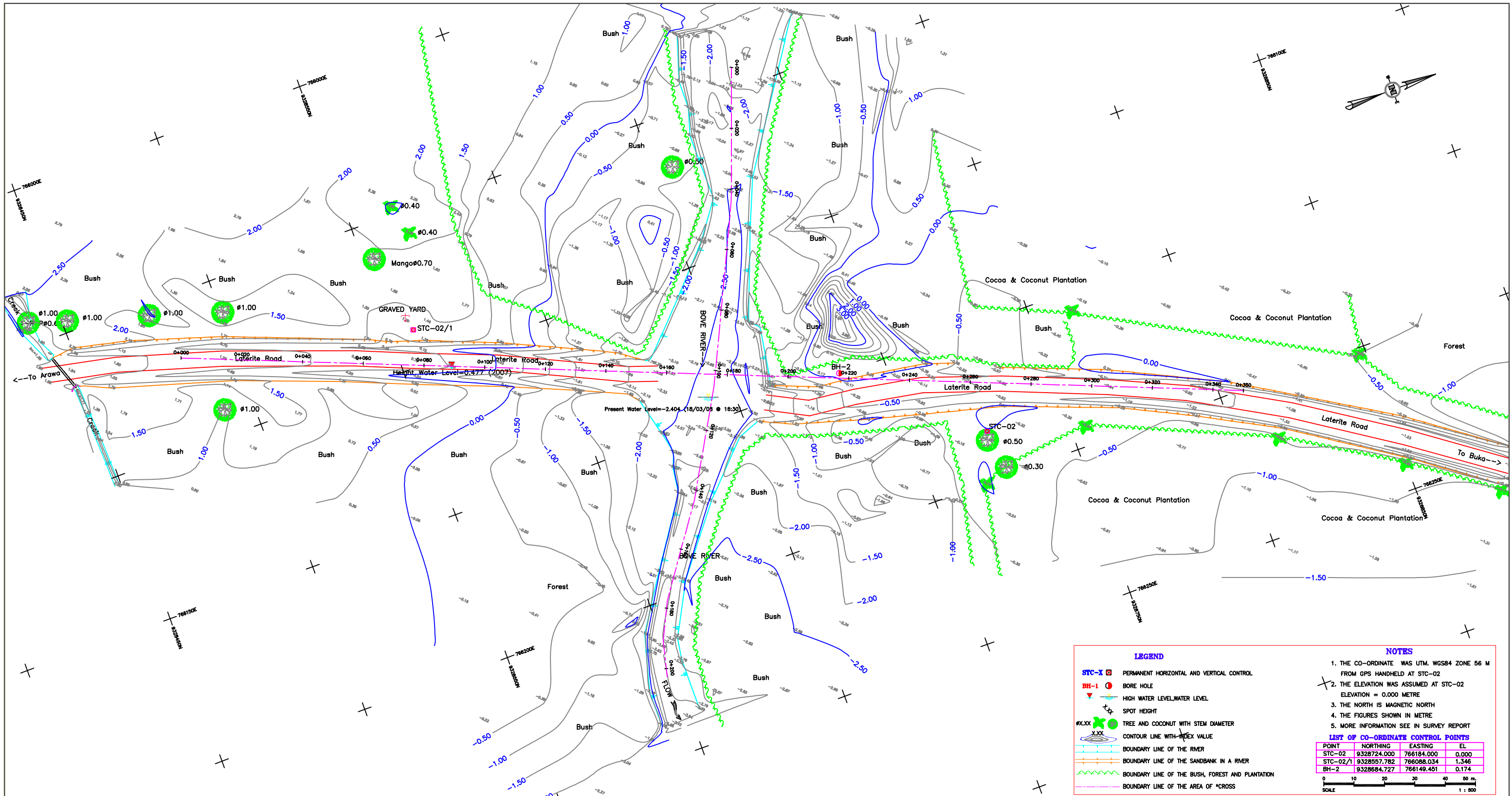
JAPAN INTERNATIONAL
COOPERATION AGENCY (JICA)

TITLE
TOPOGRAPHIC MAP OF THE BAKANOVI RIVER

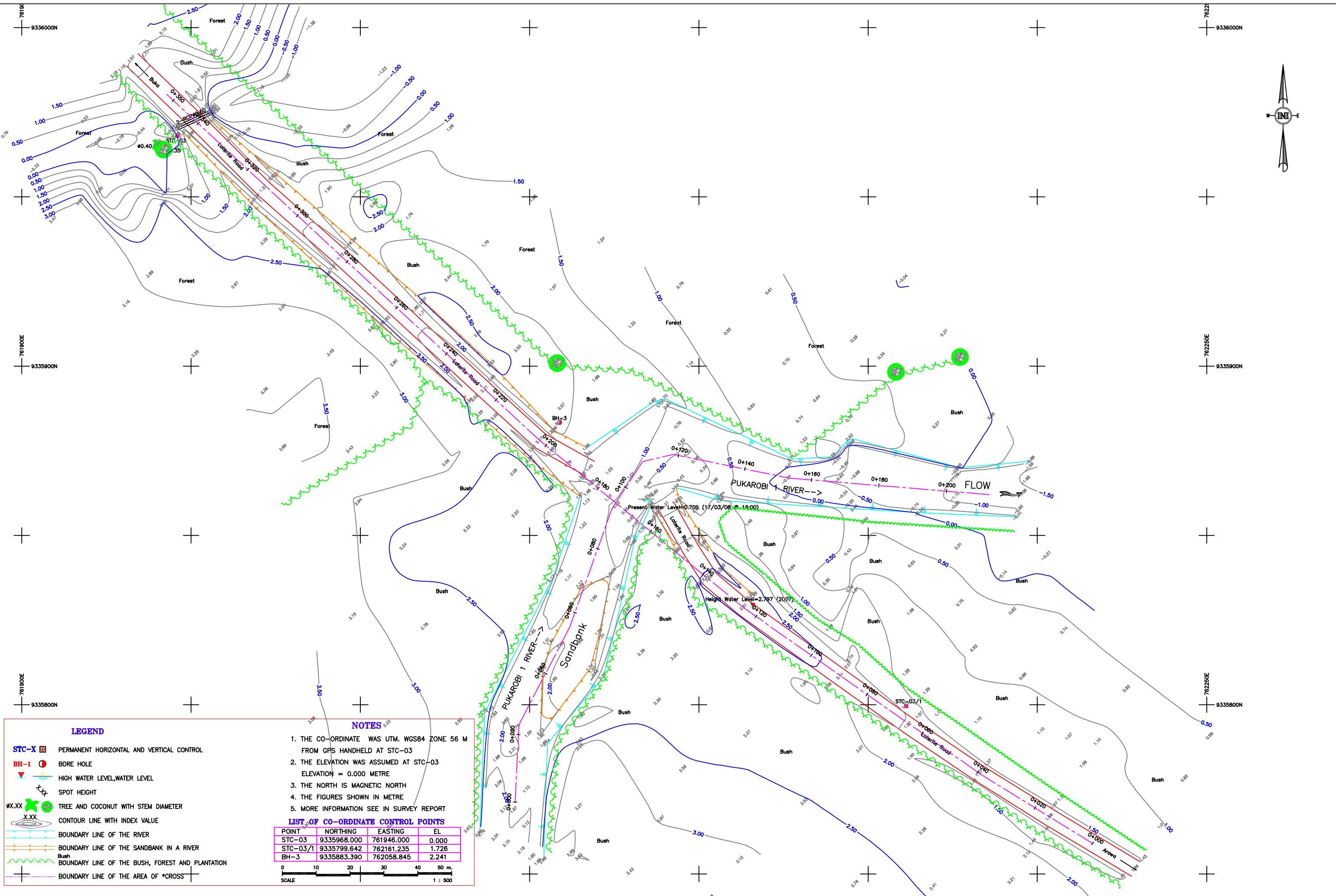
SCALE
HOR. 1:500
VER. 1:50

DATE
15/04/08

DRAWING NO.
STC-01



DEPARTMENT OF WORKS	THE PROJECT FOR CONSTRUCTION OF BRIDGES ON BOUGAINVILLE COASTAL TRUNK ROAD IN THE INDEPENDENT STATE OF PAPUA NEW GUINEA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	TITLE TOPOGRAPHIC MAP OF THE BOVE RIVER	SCALE HOR: 1:500 VER: 1:500	DATE 15/04/08	DRAWING NO. STC-02
---------------------	---	---	--	-----------------------------------	------------------	-----------------------



LEGEND

- STC-X □ PERMANENT HORIZONTAL AND VERTICAL CONTROL
- BH-1 ● BORE HOLE
- ▽ HIGH WATER LEVEL, WATER LEVEL
- ⊕ SPOT HEIGHT
- ⊗ XX TREE AND COCONUT WITH STEM DIAMETER
- XX CONTOUR LINE WITH INDEX VALUE
- BOUNDARY LINE OF THE RIVER
- BOUNDARY LINE OF THE SANDBANK IN A RIVER
- Bush BOUNDARY LINE OF THE BUSH, FOREST AND PLANTATION
- BOUNDARY LINE OF THE AREA OF *CROSS

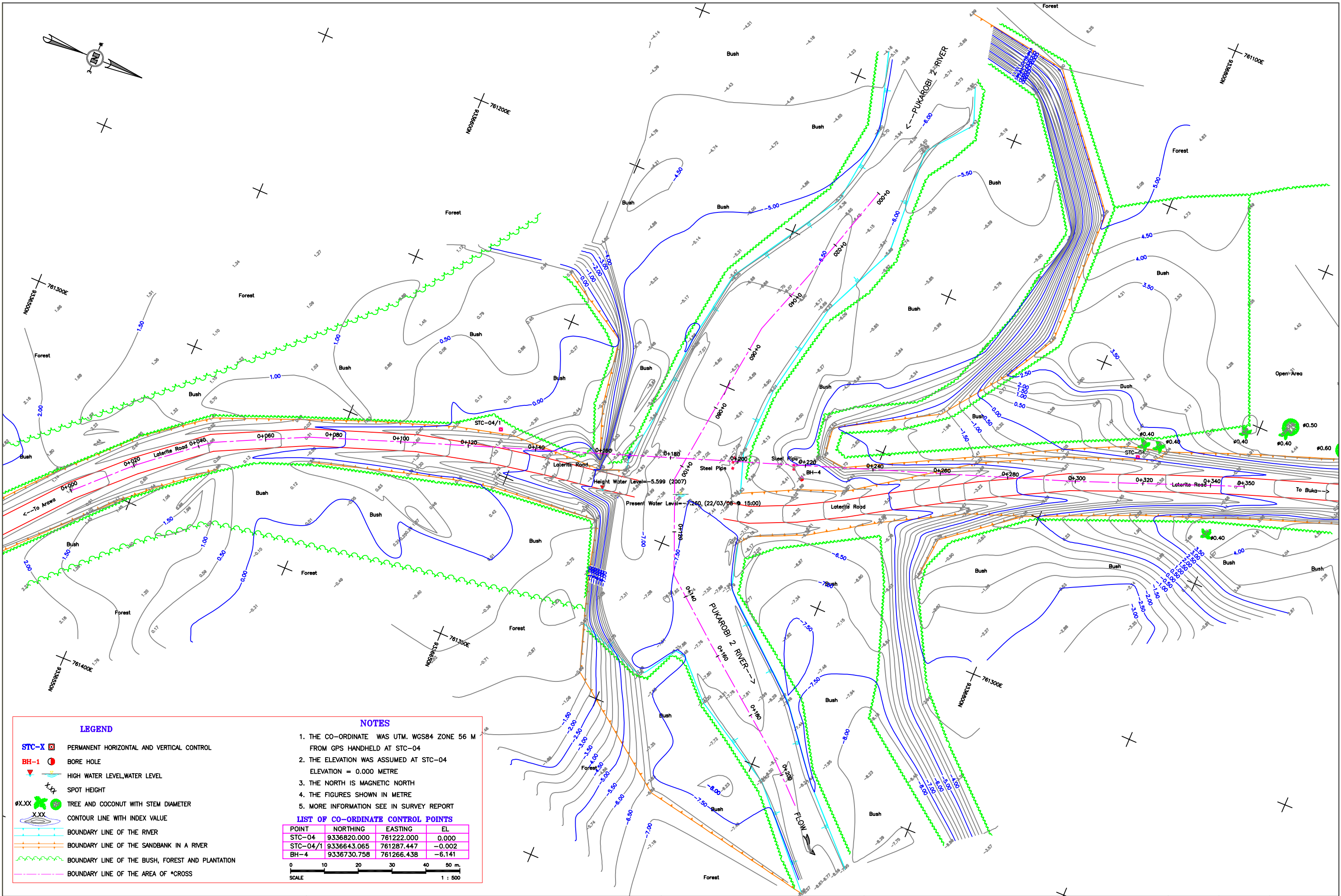
NOTES

1. THE CO-ORDINATE WAS UTM. WGS84 ZONE 56 M FROM GPS HANDHELD AT STC-03
2. THE ELEVATION WAS ASSUMED AT STC-03 ELEVATION = 0.000 METRE
3. THE NORTH IS MAGNETIC NORTH
4. THE FIGURES SHOWN IN METRE
5. MORE INFORMATION SEE IN SURVEY REPORT

LIST OF CO-ORDINATE CONTROL POINTS

POINT	NORTHING	EASTING	EL
STC-03	9335968.000	761946.000	0.000
STC-03/1	9335799.642	762161.235	1.726
BH-3	9335883.390	762058.845	2.241

SCALE 1 : 500



LEGEND

- STC-X** PERMANENT HORIZONTAL AND VERTICAL CONTROL
- BH-1** BORE HOLE
- High Water Level, Water Level
- SPOT HEIGHT
- ØX.XX TREE AND COCONUT WITH STEM DIAMETER
- X.XX CONTOUR LINE WITH INDEX VALUE
- BOUNDARY LINE OF THE RIVER
- BOUNDARY LINE OF THE SANDBANK IN A RIVER
- BOUNDARY LINE OF THE BUSH, FOREST AND PLANTATION
- BOUNDARY LINE OF THE AREA OF *CROSS

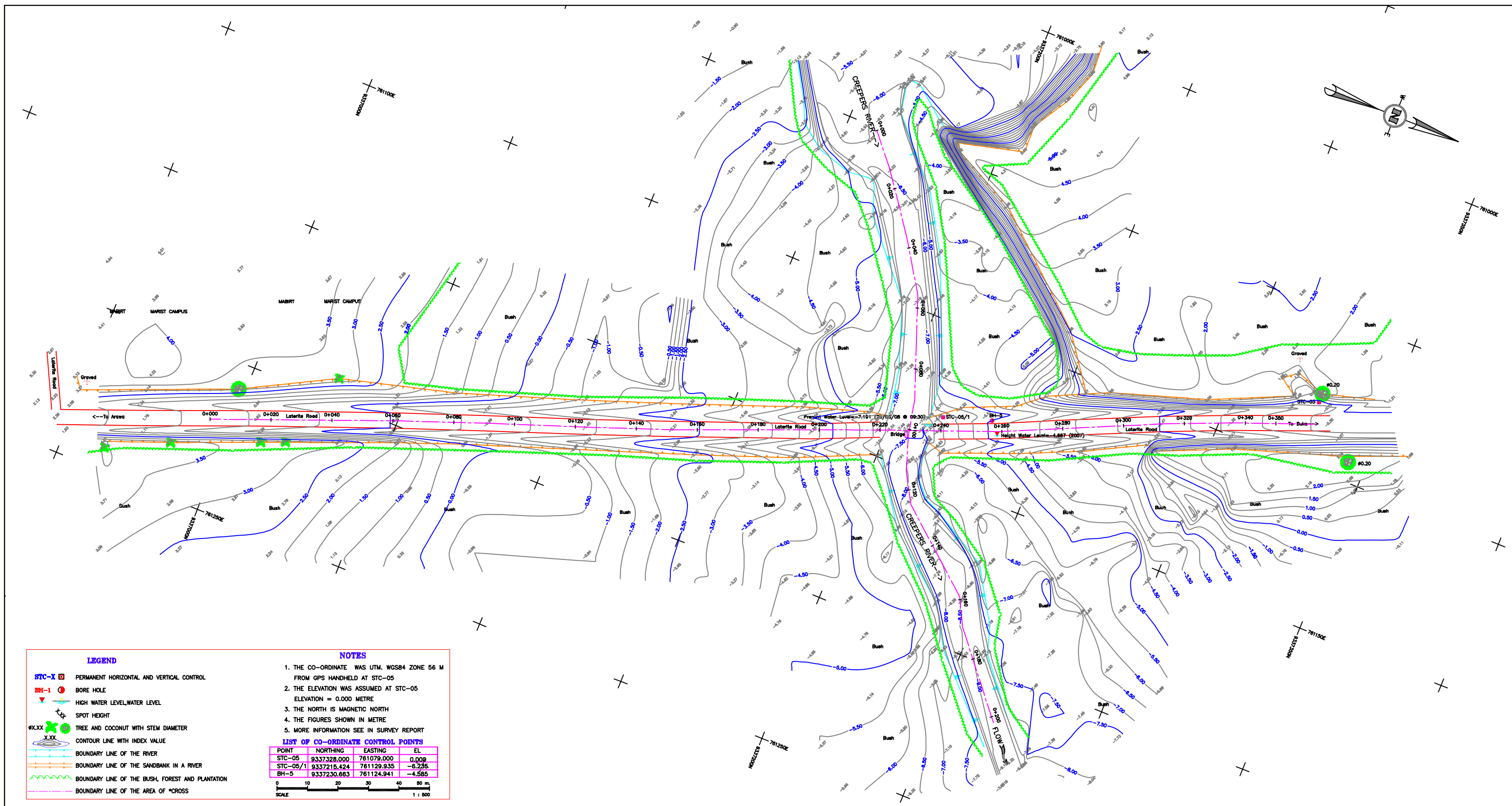
NOTES

1. THE CO-ORDINATE WAS UTM. WGS84 ZONE 56 M FROM GPS HANDHELD AT STC-04
2. THE ELEVATION WAS ASSUMED AT STC-04 ELEVATION = 0.000 METRE
3. THE NORTH IS MAGNETIC NORTH
4. THE FIGURES SHOWN IN METRE
5. MORE INFORMATION SEE IN SURVEY REPORT

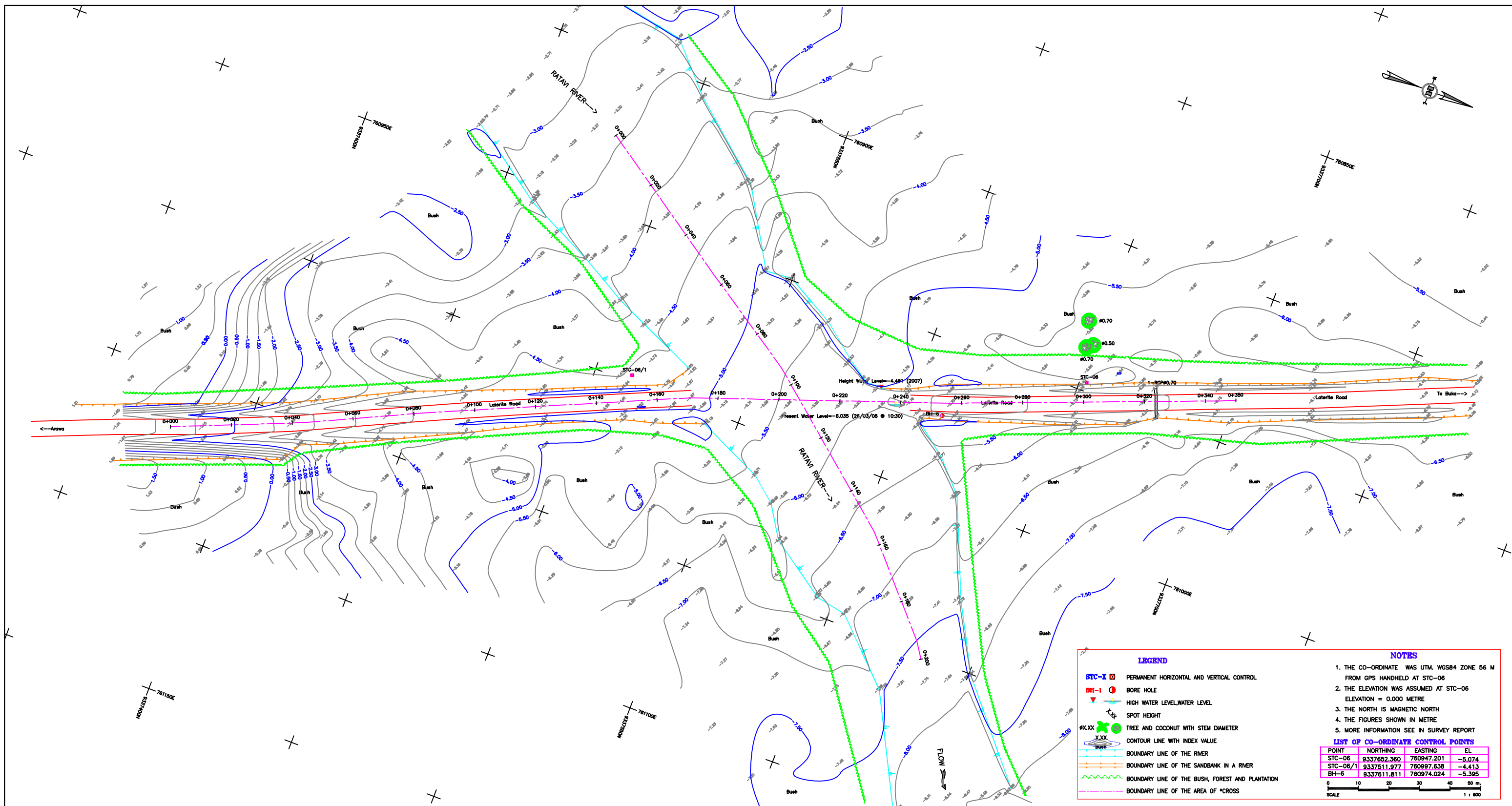
LIST OF CO-ORDINATE CONTROL POINTS

POINT	NORTHING	EASTING	EL
STC-04	9336820.000	761222.000	0.000
STC-04/1	9336643.065	761287.447	-0.002
BH-4	9336730.758	761266.438	-6.141





DEPARTMENT OF WORKS	THE PROJECT FOR CONSTRUCTION OF BRIDGES ON BOUGAINVILLE COASTAL TRUNK ROAD IN THE INDEPENDENT STATE OF PAPUA NEW GUINEA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	TITLE TOPOGRAPHIC MAP OF THE CREEPERS RIVER	SCALE HOR. 1:500 VER. 1:50	DATE 15/04/08	DRAWING NO. STC-05
---------------------	---	---	--	----------------------------------	------------------	-----------------------



LEGEND

- STC-X □ PERMANENT HORIZONTAL AND VERTICAL CONTROL
- BH-1 ● BORE HOLE
- ▽ HIGH WATER LEVEL, WATER LEVEL
- SPOT HEIGHT
- #X.XX ● TREE AND COCONUT WITH STEM DIAMETER
- CONTOUR LINE WITH INDEX VALUE
- BOUNDARY LINE OF THE RIVER
- BOUNDARY LINE OF THE SANDBANK IN A RIVER
- BOUNDARY LINE OF THE BUSH, FOREST AND PLANTATION
- BOUNDARY LINE OF THE AREA OF *CROSS

NOTES

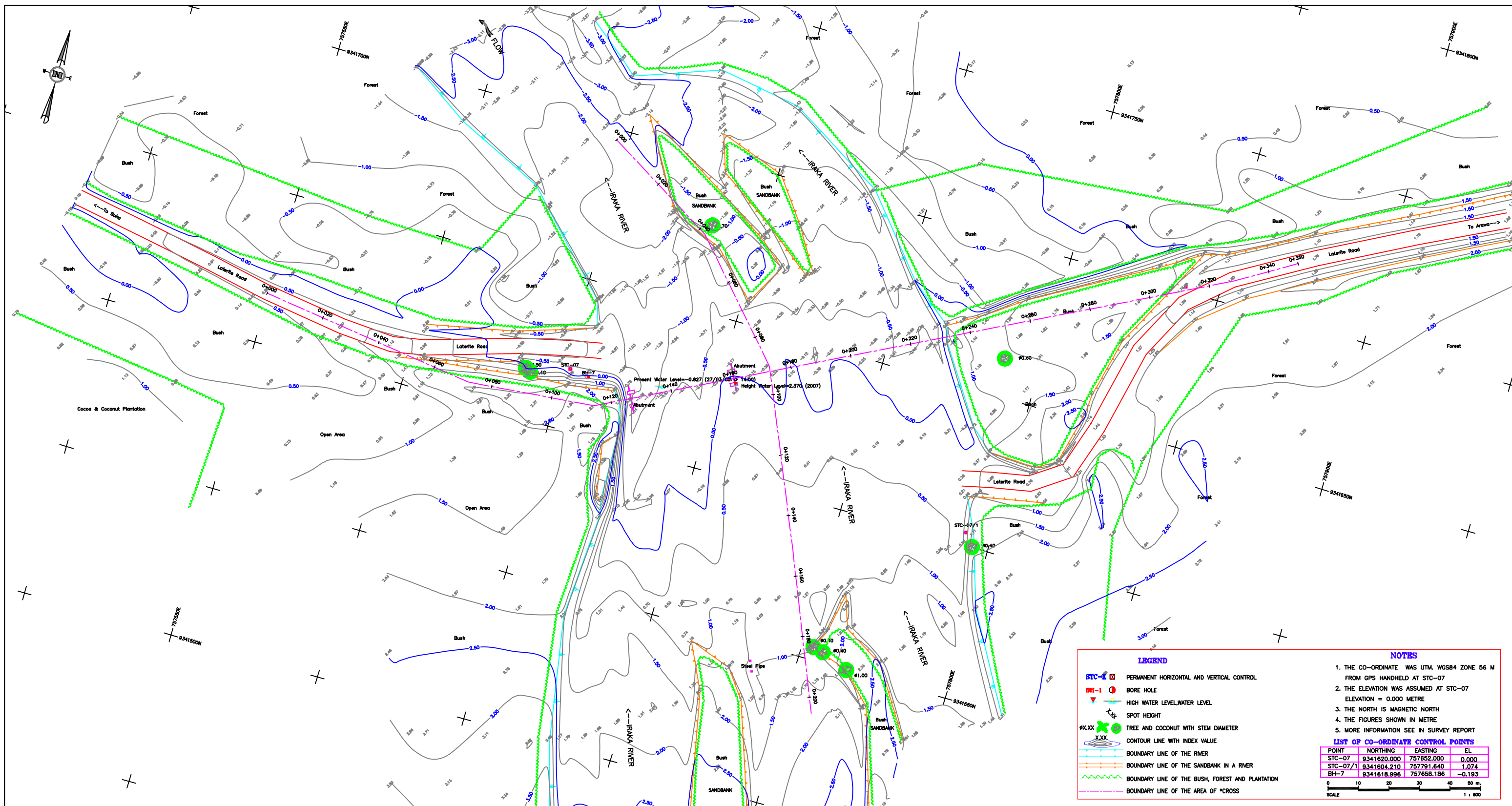
1. THE CO-ORDINATE WAS UTM, WGS84 ZONE 56 M FROM GPS HANDHELD AT STC-06
2. THE ELEVATION WAS ASSUMED AT STC-06 ELEVATION = 0.000 METRE
3. THE NORTH IS MAGNETIC NORTH
4. THE FIGURES SHOWN IN METRE
5. MORE INFORMATION SEE IN SURVEY REPORT

LIST OF CO-ORDINATE CONTROL POINTS

POINT	NORTHING	EASTING	EL
STC-06	9337652.360	760947.201	-5.074
STC-06/1	9337511.977	760997.638	-4.413
BH-6	9337811.811	760974.024	-5.395

0 10 20 30 40 50 m
SCALE 1 : 500

DEPARTMENT OF WORKS	THE PROJECT FOR CONSTRUCTION OF BRIDGES ON BOUGAINVILLE COASTAL TRUNK ROAD IN THE INDEPENDENT STATE OF PAPUA NEW GUINEA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	TITLE TOPOGRAPHIC MAP OF THE RATAWI RIVER	SCALE HOR: 1:500 VER: 1:50	DATE 15/04/08	DRAWING NO. STC-06
---------------------	---	---	--	----------------------------------	------------------	-----------------------



LEGEND

- STC-# PERMANENT HORIZONTAL AND VERTICAL CONTROL
- BH-1 BORE HOLE
- High Water Level, Water Level
- SPOT HEIGHT
- #X.XX TREE AND COCONUT WITH STEM DIAMETER
- CONTOUR LINE WITH INDEX VALUE
- BOUNDARY LINE OF THE RIVER
- BOUNDARY LINE OF THE SANDBANK IN A RIVER
- BOUNDARY LINE OF THE BUSH, FOREST AND PLANTATION
- BOUNDARY LINE OF THE AREA OF *CROSS

NOTES

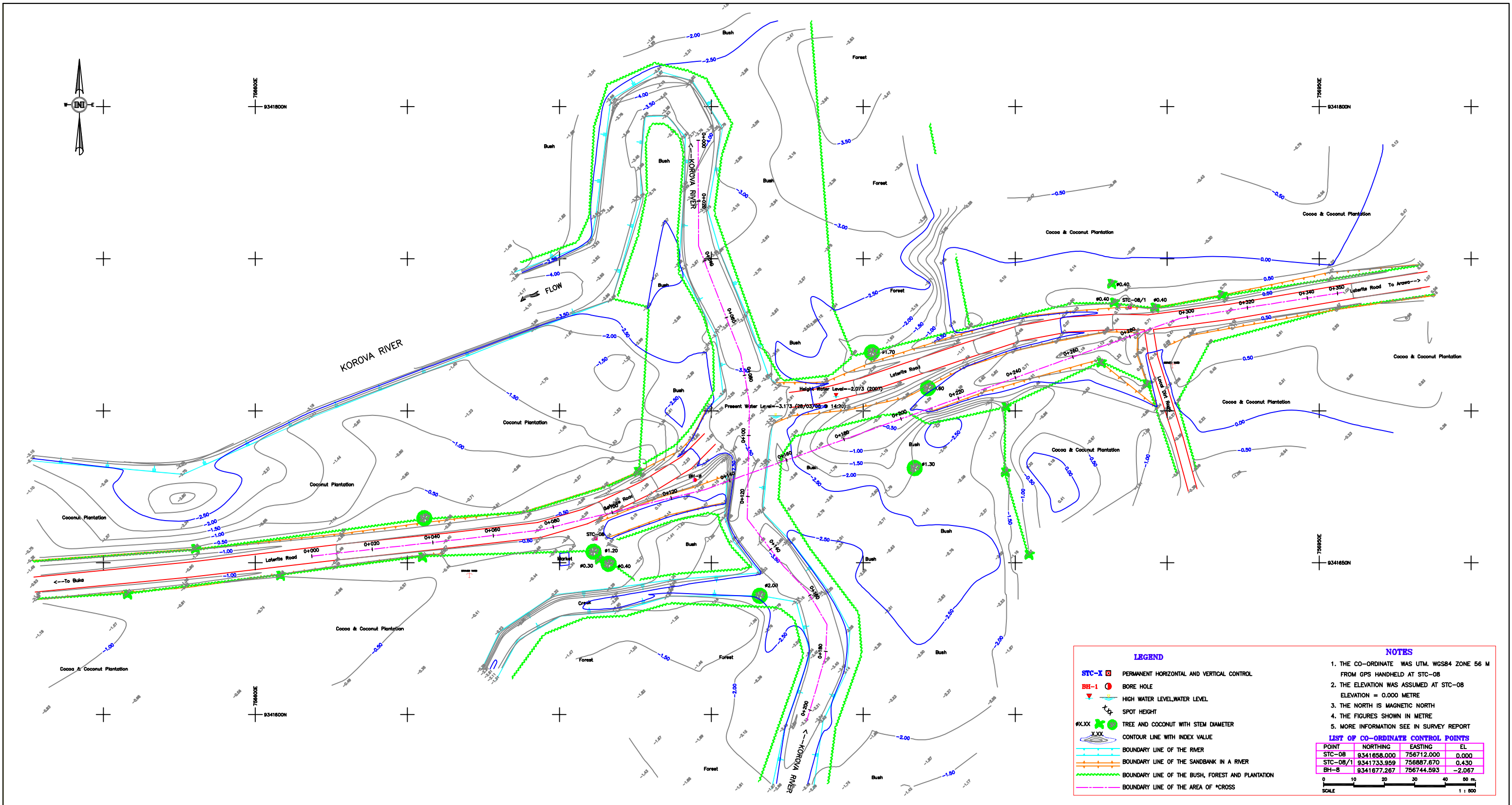
1. THE CO-ORDINATE WAS UTM, WGS84 ZONE 56 M FROM GPS HANDHELD AT STC-07
2. THE ELEVATION WAS ASSUMED AT STC-07 ELEVATION = 0.000 METRE
3. THE NORTH IS MAGNETIC NORTH
4. THE FIGURES SHOWN IN METRE
5. MORE INFORMATION SEE IN SURVEY REPORT

LIST OF CO-ORDINATE CONTROL POINTS

POINT	NORTHING	EASTING	EL
STC-07	9341620.000	757652.000	0.000
STC-07/1	9341604.210	757791.640	1.074
BH-7	9341618.996	757658.186	-0.193

0 10 20 30 40 50 m
SCALE 1 : 500

DEPARTMENT OF WORKS	THE PROJECT FOR CONSTRUCTION OF BRIDGES ON BOUGAINVILLE COASTAL TRUNK ROAD IN THE INDEPENDENT STATE OF PAPUA NEW GUINEA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	TITLE TOPOGRAPHIC MAP OF IRAKA RIVER	SCALE HOR: 1:500 VER: 1:50	DATE 15/04/08	DRAWING NO. STC-07
---------------------	---	---	---	----------------------------------	------------------	-----------------------



LEGEND

- STC-X □ PERMANENT HORIZONTAL AND VERTICAL CONTROL
- BH-1 ● BORE HOLE
- ▽ HIGH WATER LEVEL/WATER LEVEL
- ⊕ SPOT HEIGHT
- #X.XX ● TREE AND COCONUT WITH STEM DIAMETER
- CONTOUR LINE WITH INDEX VALUE
- BOUNDARY LINE OF THE RIVER
- BOUNDARY LINE OF THE SANDBANK IN A RIVER
- BOUNDARY LINE OF THE BUSH, FOREST AND PLANTATION
- BOUNDARY LINE OF THE AREA OF *CROSS

NOTES

1. THE CO-ORDINATE WAS UTM, WGS84 ZONE 56 M FROM GPS HANDHELD AT STC-08
2. THE ELEVATION WAS ASSUMED AT STC-08 ELEVATION = 0.000 METRE
3. THE NORTH IS MAGNETIC NORTH
4. THE FIGURES SHOWN IN METRE
5. MORE INFORMATION SEE IN SURVEY REPORT

LIST OF CO-ORDINATE CONTROL POINTS

POINT	NORTHING	EASTING	EL
STC-08	9341858.000	756712.000	0.000
STC-08/1	9341733.959	756887.670	0.430
BH-8	9341877.267	756744.593	-2.067

0 10 20 30 40 50 m
SCALE 1 : 500

DEPARTMENT OF WORKS	THE PROJECT FOR CONSTRUCTION OF BRIDGES ON BOUGAINVILLE COASTAL TRUNK ROAD IN THE INDEPENDENT STATE OF PAPUA NEW GUINEA	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	TITLE TOPOGRAPHIC MAP OF THE KOROVA RIVER	SCALE HOR: 1:500 VER: 1:500	DATE 15/04/08	DRAWING NO. STC-08
---------------------	---	---	--	-----------------------------------	------------------	-----------------------