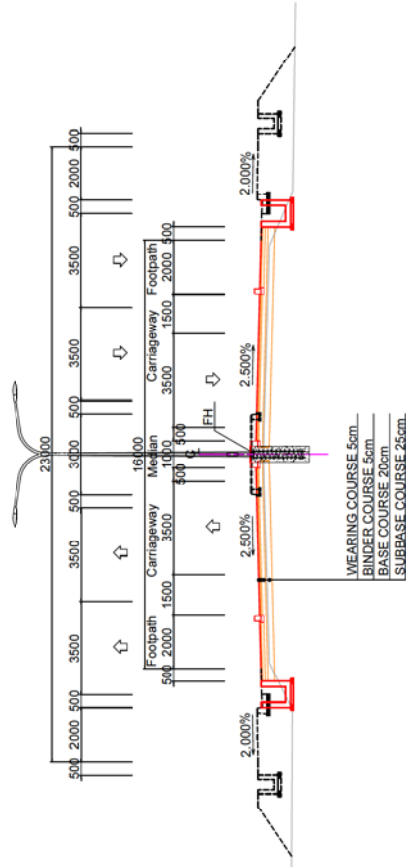
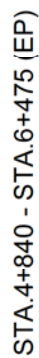
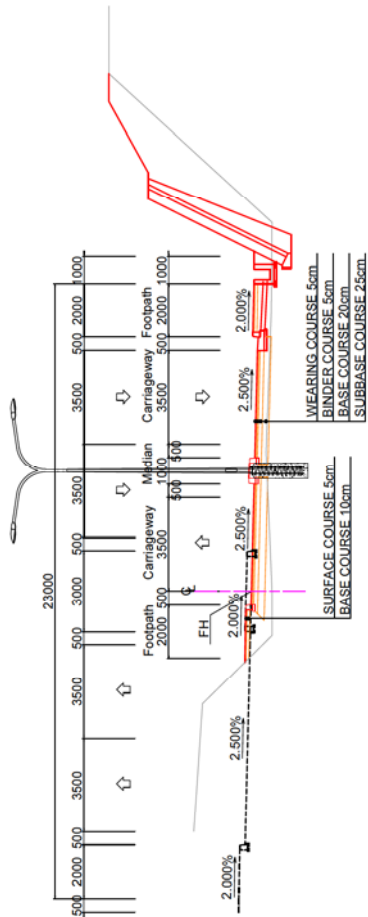
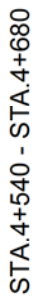


TYPICAL CROSS SECTION S=1:100

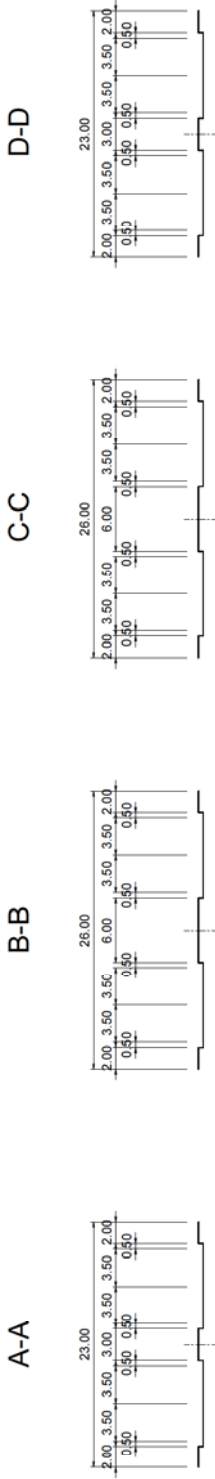
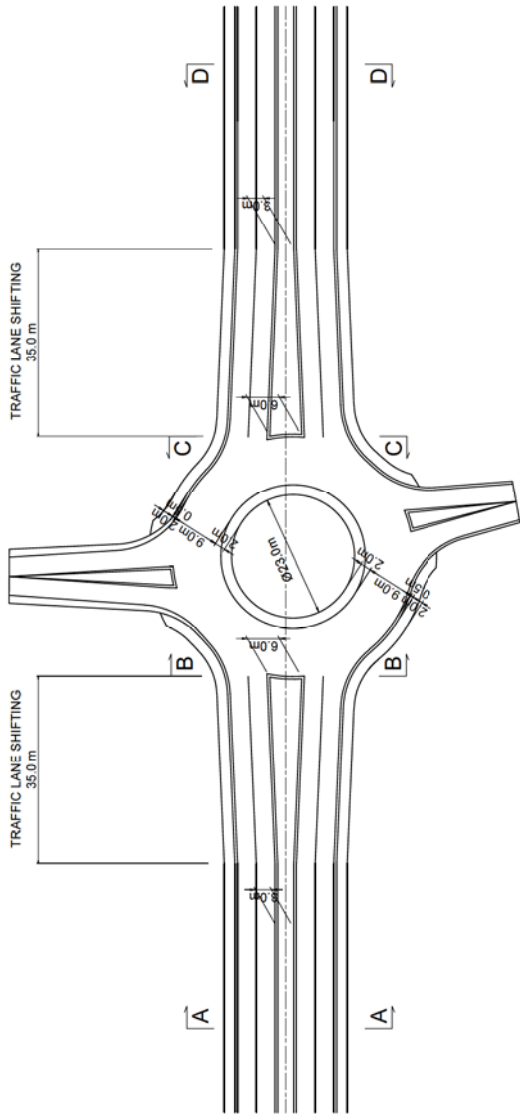


OVERLAY SECTION



 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by: _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by: _____ Date: _____ Checked by: _____ Date: _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE :	TYPICAL CROSS SECTION	Drawing No.	022
			SCALE		1:100	
			DATE			

INTERSECTION PLAN

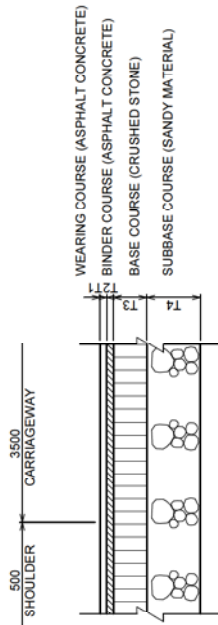


 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : _____ Date: _____ Checked by : _____ Date: _____	TITLE : PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	Drawing No.	023
			SCALE	1:500
			DATE	

PAVEMENT STRUCTURE

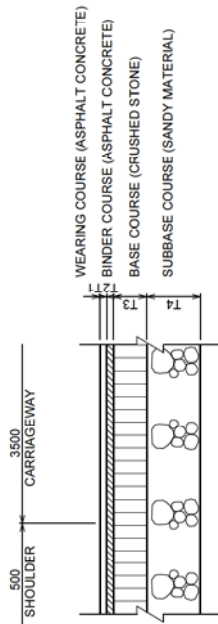
CARRIAGEWAY

TYPE-1
(STA.0+00 - LUNGA RIVER)



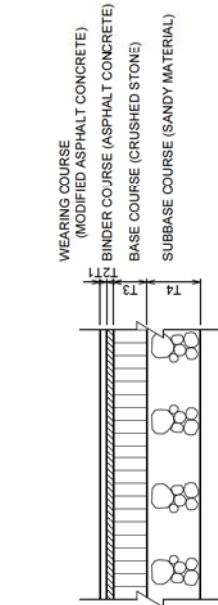
T1	T2	T3	T4
WEARING COURSE (mm)	BINDER COURSE (mm)	BASE COURSE (mm)	SUBBASE COURSE (mm)
50	50	200	250

TYPE-2
(LUNGA RIVER - STA 6+480)



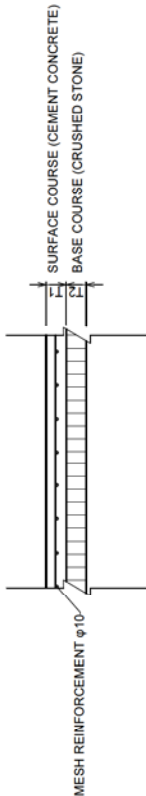
T1	T2	T3	T4
WEARING COURSE (mm)	BINDER COURSE (mm)	BASE COURSE (mm)	SUBBASE COURSE (mm)
50	50	200	250

TYPE-3
(BUS STOP , U-TURN LANE , ROUNDABOUT)



T1	T2	T3	T4
WEARING COURSE (mm)	BINDER COURSE (mm)	BASE COURSE (mm)	SUBBASE COURSE (mm)
50	50	200	250

FOOTPATH REPLACEMENT



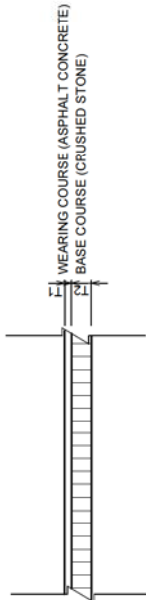
T1	T2
SURFACE COURSE (mm)	BASE COURSE (mm)
150	150

FOOTPATH
TYPICAL SECTION



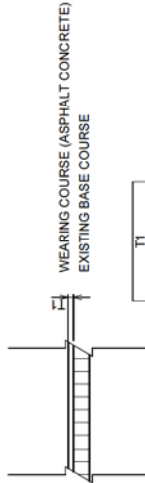
T1	T2
WEARING COURSE (mm)	BASE COURSE (mm)
50	100

ACCESS ROAD
TYPE-1



T1	T2
WEARING COURSE (mm)	BASE COURSE (mm)
50	150

OVERLAY
TYPICAL SECTION



T1
WEARING COURSE (mm)
50



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT
Approved by : _____ Date: _____

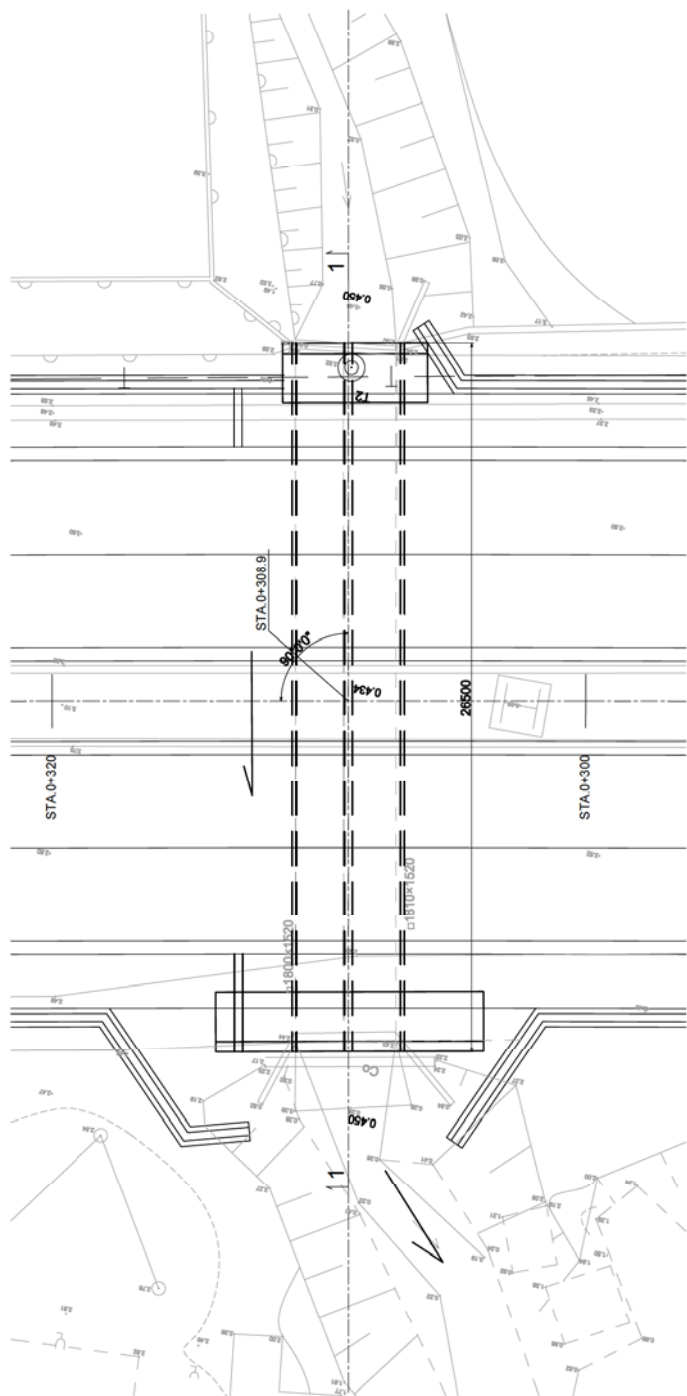
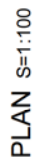
CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
PAVEMENT STRUCTURE

Drawing No. 024
SCALE -
DATE

BOX CULVERT



 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by : _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : _____ Date: _____ Checked by : _____ Date: _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE : STA.0+308.9 CROSS DRAINAGE (BOX CULVERT) (1)		Drawing No.	025
					SCALE	1:100,1:30
					DATE	

STA.0+308.9 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

WING WALL

LEFT SIDE
(DOWNSTREAM SIDE)

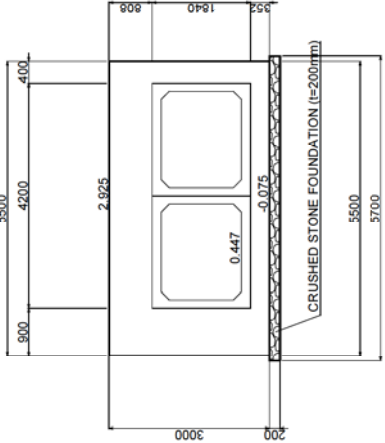
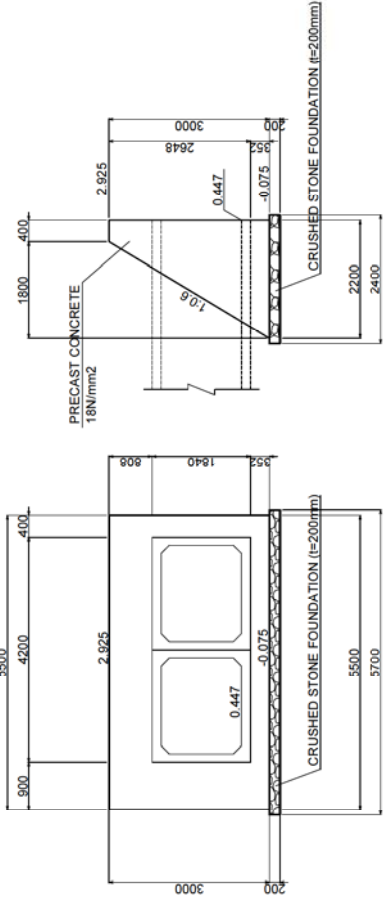
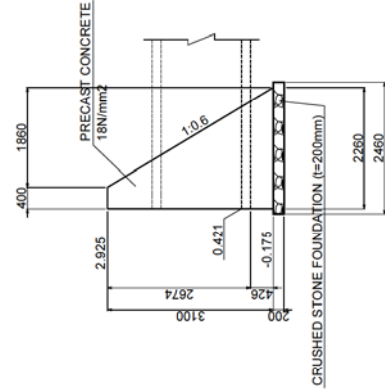
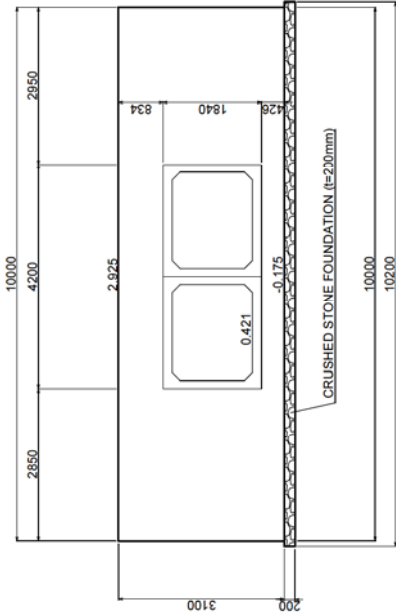
RIGHT SIDE
(UPSTREAM SIDE)

FRONT VIEW

CROSS SECTION

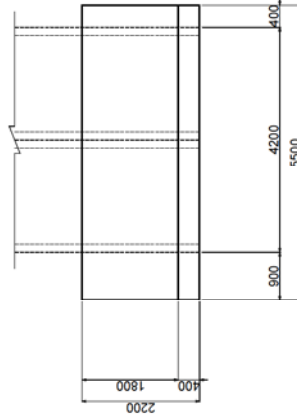
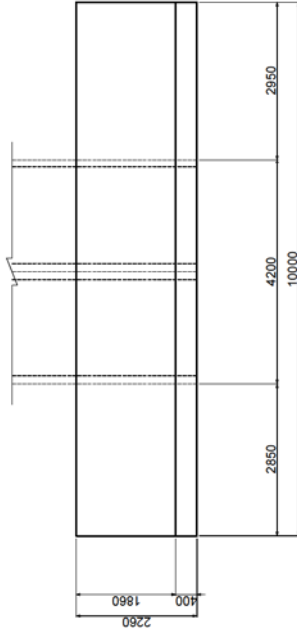
FRONT VIEW

CROSS SECTION



PLAN

PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT

CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

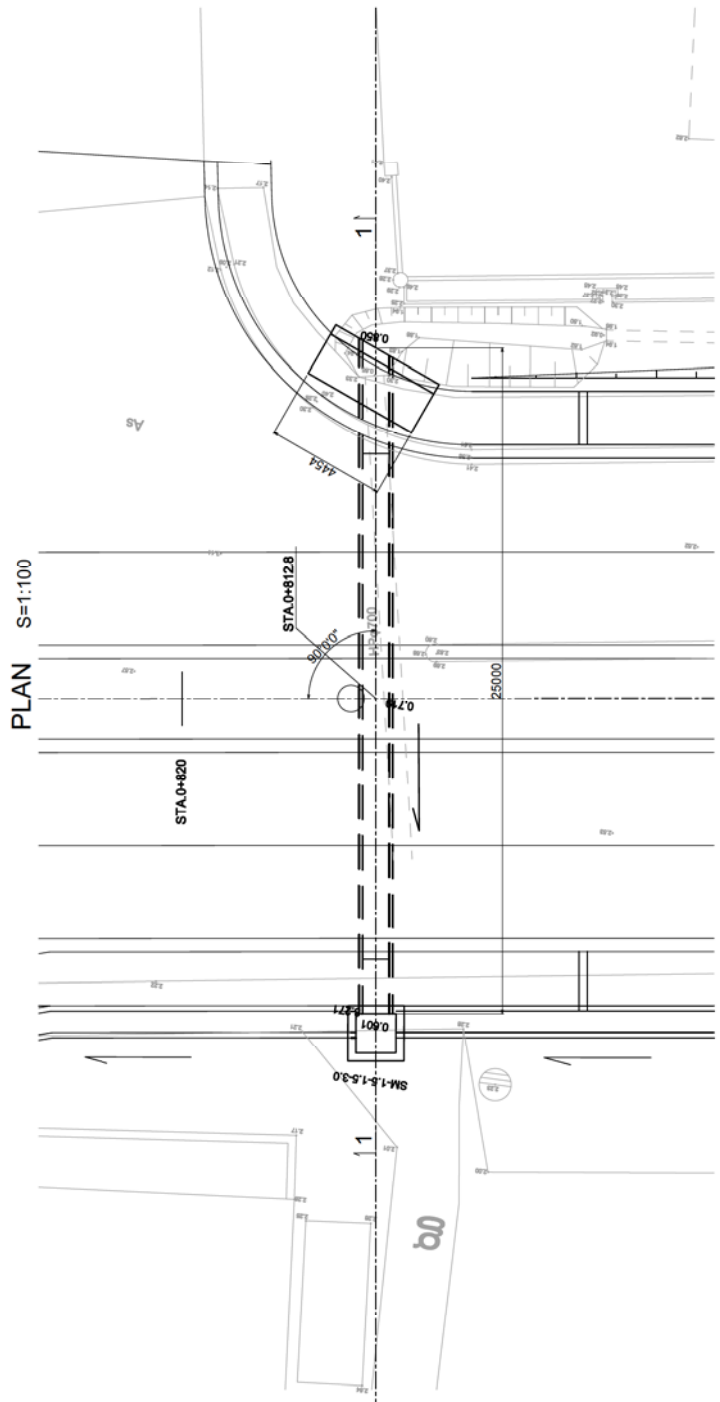
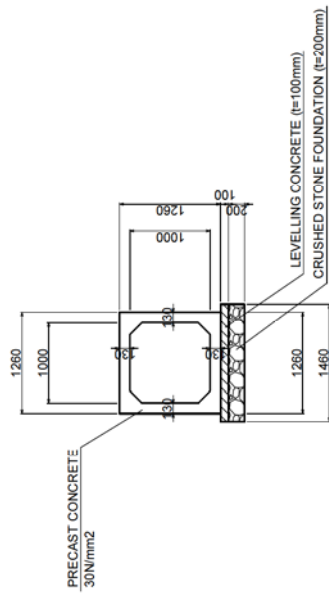
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

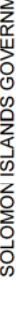
TITLE :
STA.0+308.9
CROSS DRAINAGE (BOX CULVERT) (2)

Drawing No. 026
SCALE 1:50
DATE

BOX CULVERT

TYPICAL CROSS SECTION S=1:30



 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by: _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by: _____ Date: _____ Checked by: _____ Date: _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE: STA.0+812.8 CROSS DRAINAGE (BOX CULVERT) (1)	Drawing No. 027
			SCALE 1:100,1:30	SCALE
			DATE	DATE

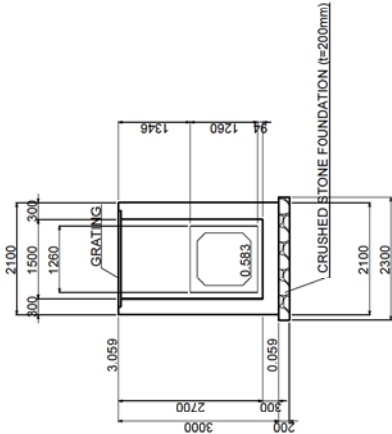
STA.0+812.8 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

CATCH BASIN AND WING WALL

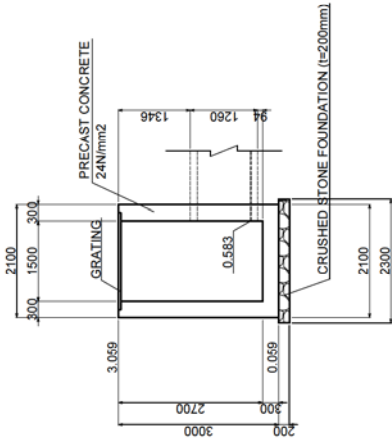
LEFT SIDE
(DOWNSTREAM SIDE)

RIGHT SIDE
(UPSTREAM SIDE)

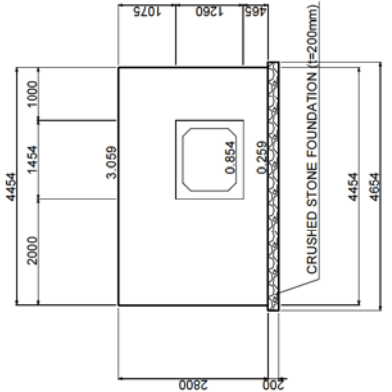
FRONT VIEW



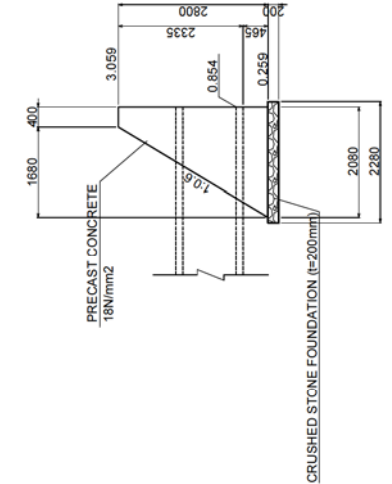
CROSS SECTION



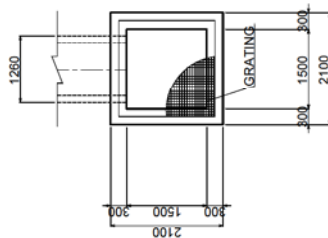
FRONT VIEW



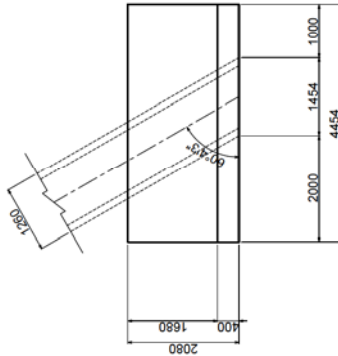
CROSS SECTION



PLAN



PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

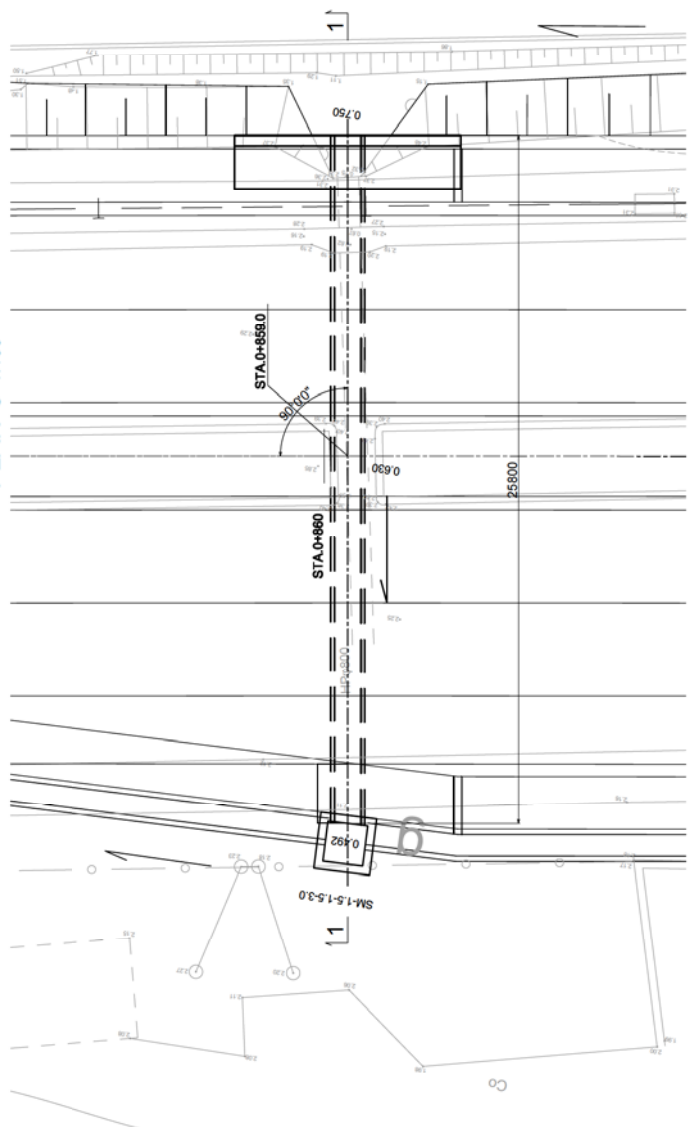
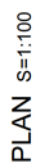
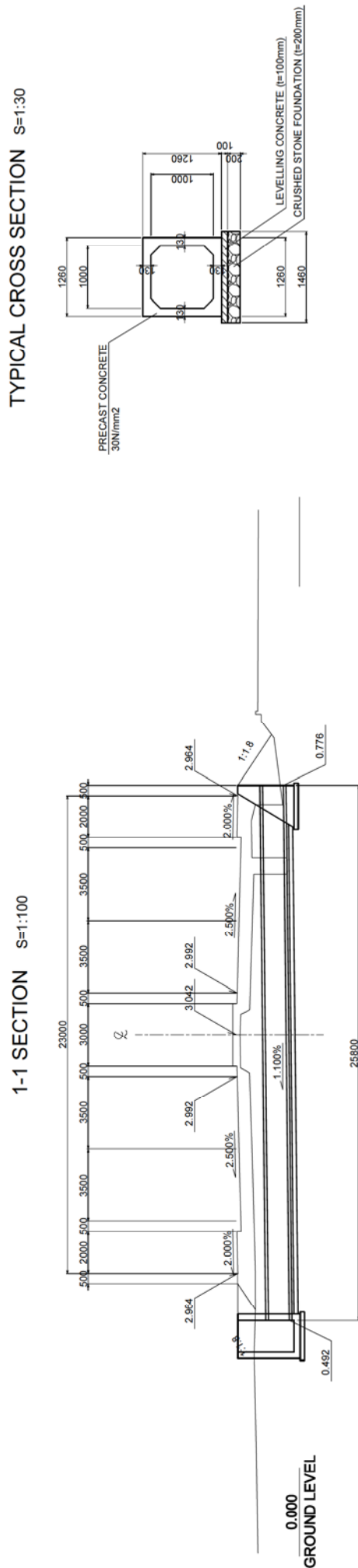
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.0+812.8
CROSS DRAINAGE (BOX CULVERT) (2)

Drawing No. 028
SCALE 1:50
DATE

STA.0+859.0 CROSS DRAINAGE (BOX CULVERT) (1)

BOX CULVERT



 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by : _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : _____ Date: _____ Checked by : _____ Date: _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE :	STA.0+859.0 CROSS DRAINAGE (BOX CULVERT) (1)	Drawing No.	029	
					SCALE	1:100,1:30	
					DATE		

STA.0+859.0 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

CATCH BASIN AND WING WALL

LEFT SIDE
(DOWNSTREAM SIDE)

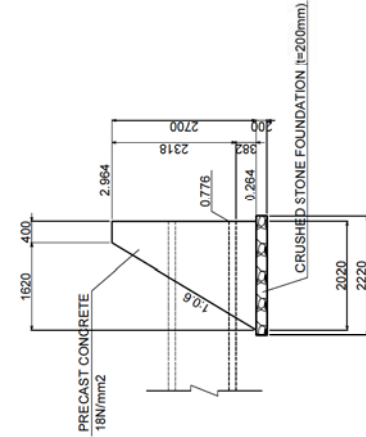
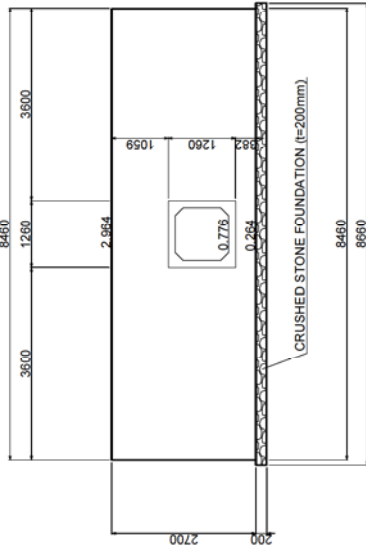
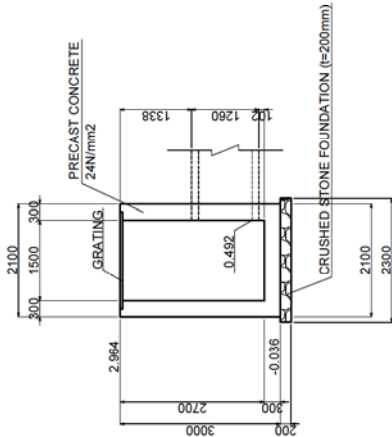
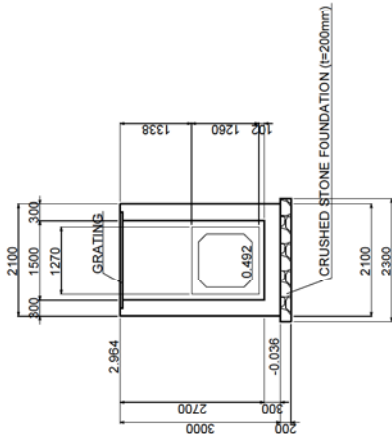
RIGHT SIDE
(UPSTREAM SIDE)

FRONT VIEW

CROSS SECTION

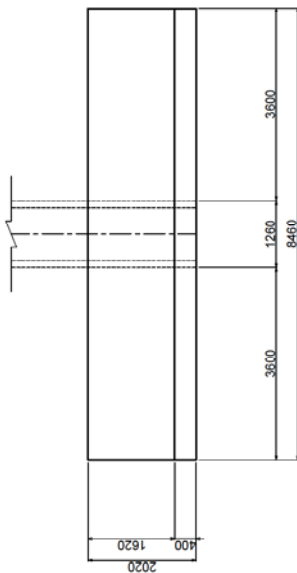
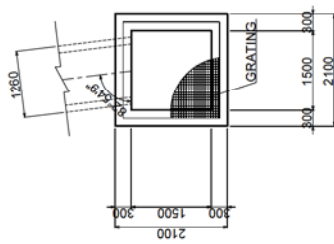
FRONT VIEW

CROSS SECTION



PLAN

PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT

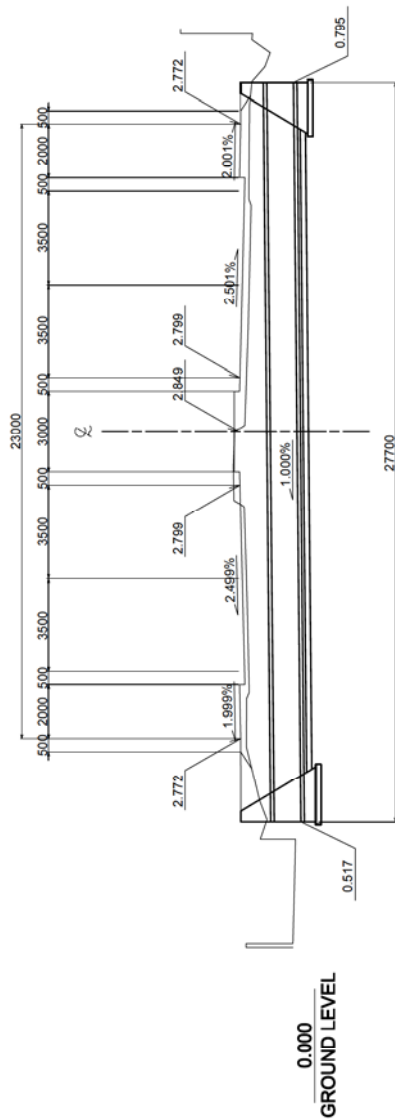
CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

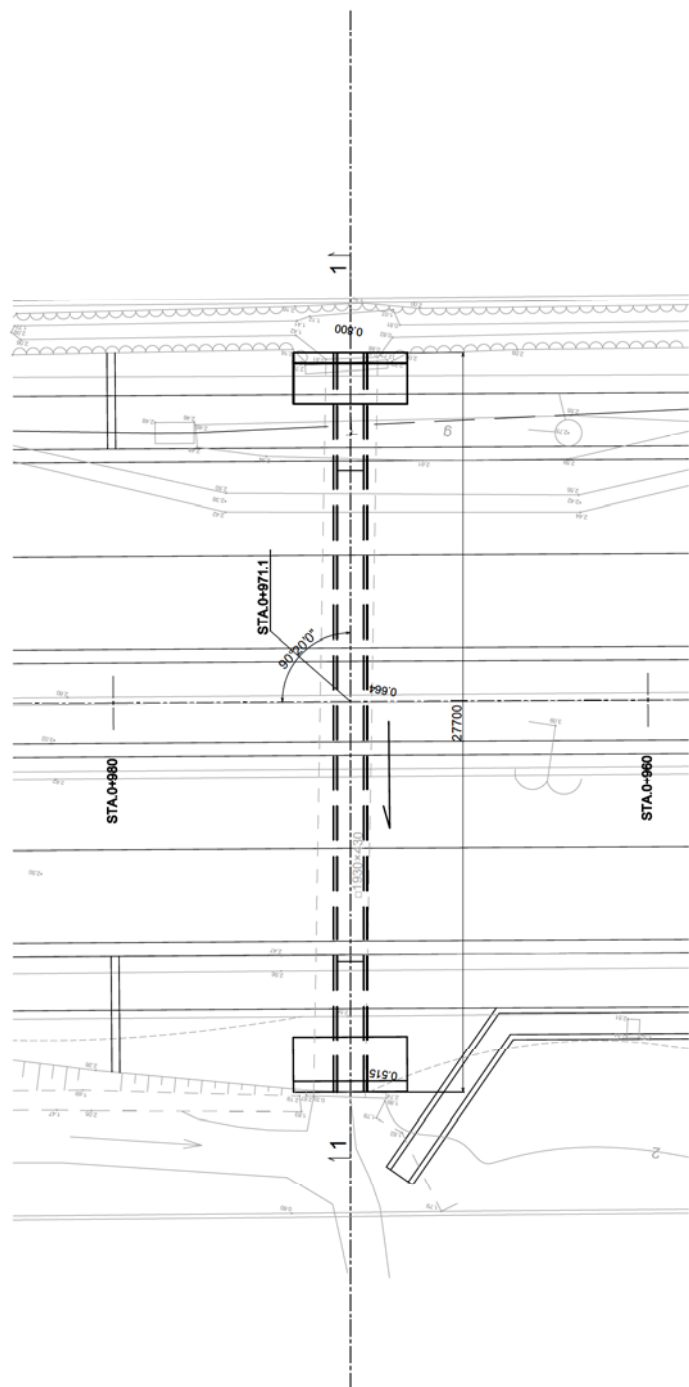
TITLE :
STA.0+859.0
CROSS DRAINAGE (BOX CULVERT) (2)

Drawing No. 030
SCALE 1:50
DATE

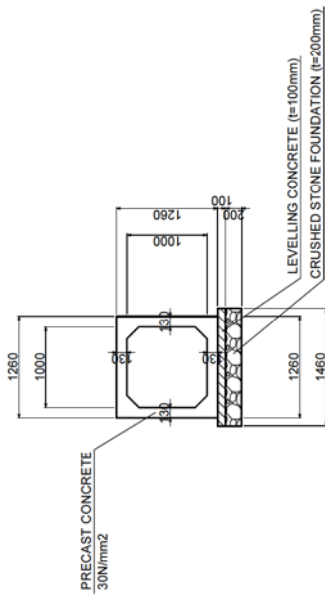
BOX CULVERT



PLAN S=1:100



TYPICAL CROSS SECTION



 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by: _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by: _____ Date: _____ Checked by: _____ Date: _____	TITLE: STA. 0+971.1 CROSS DRAINAGE (BOX CULVERT) (1)		Drawing No.	031
				SCALE	1:100, 1:30
				DATE	

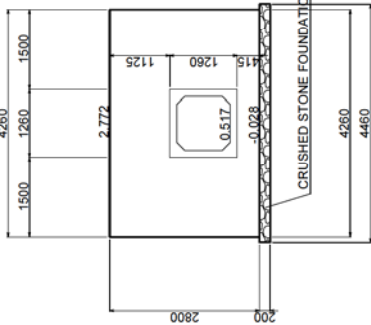
STA.0+971.1 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

CATCH BASIN AND WING WALL

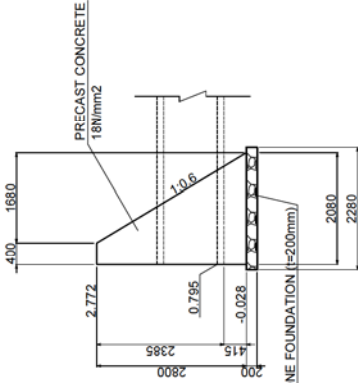
LEFT SIDE
(DOWNSTREAM SIDE)

RIGHT SIDE
(UPSTREAM SIDE)

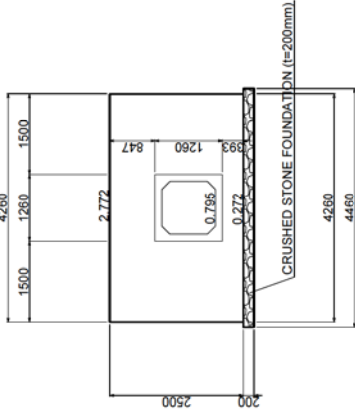
FRONT VIEW



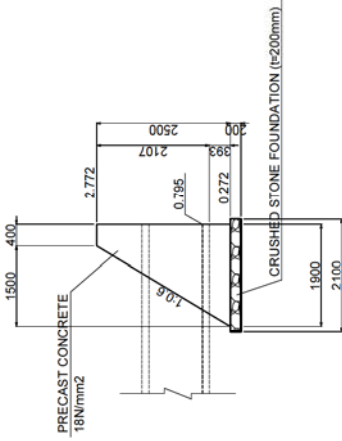
CROSS SECTION



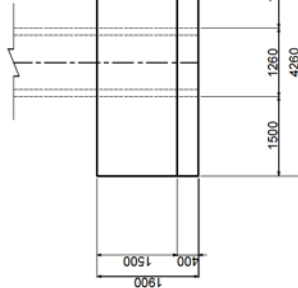
FRONT VIEW



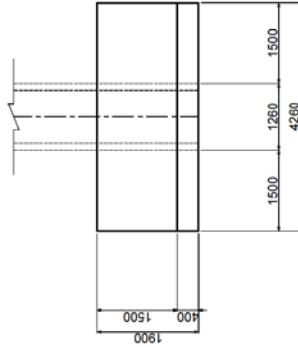
CROSS SECTION



PLAN



PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

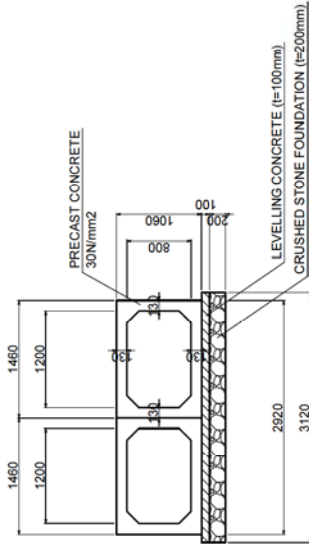
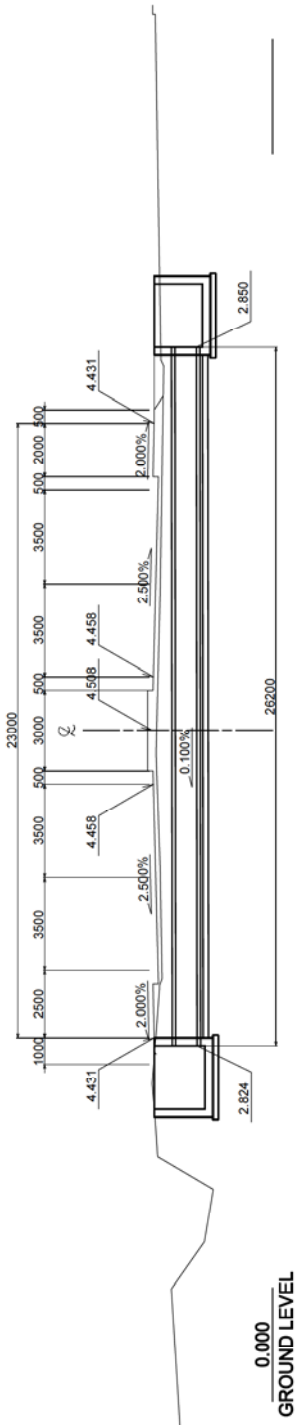
TITLE :
STA.0+971.1
CROSS DRAINAGE (BOX CULVERT) (2)

Drawing No. 032
SCALE 1:50
DATE

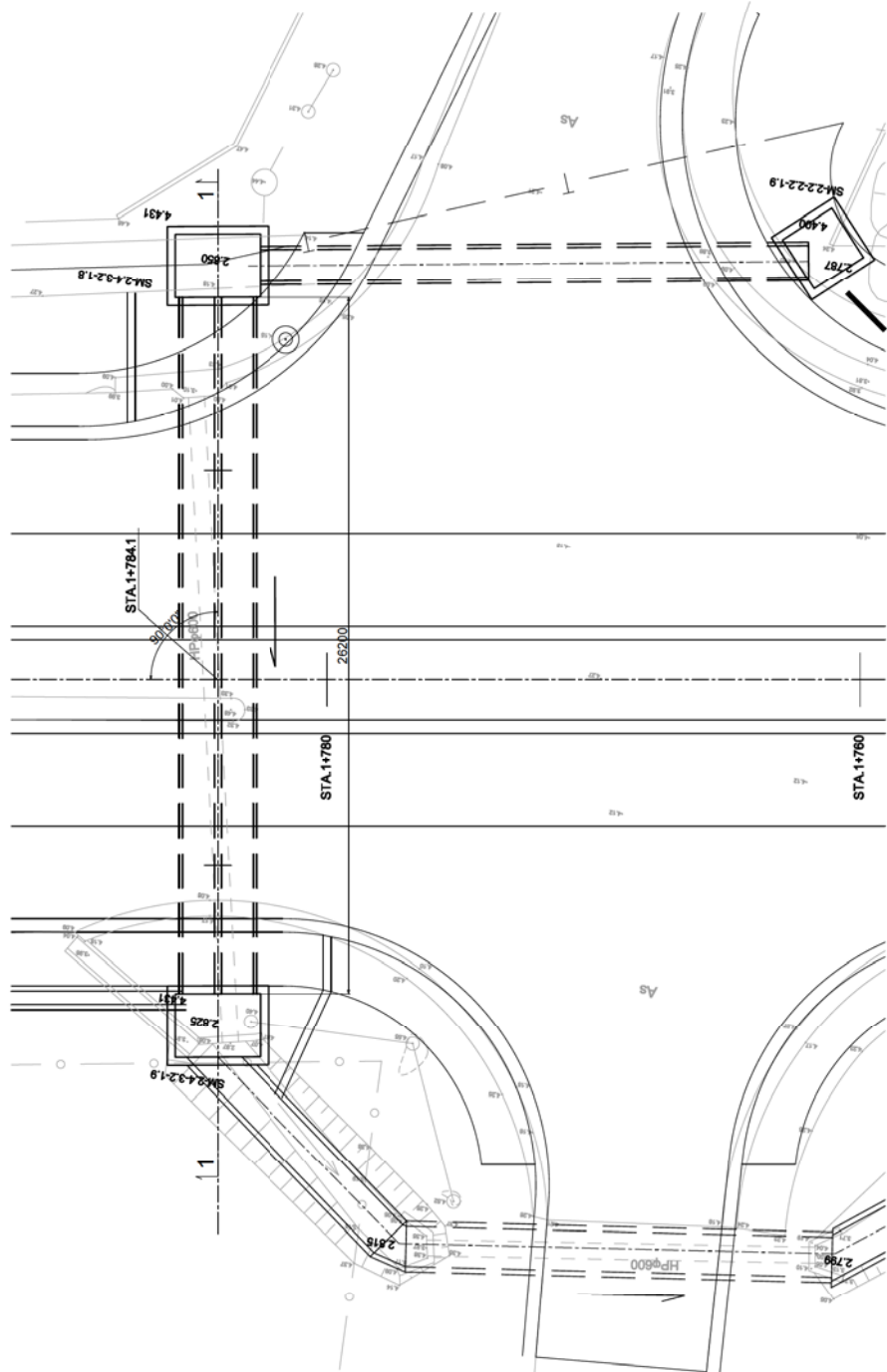
STA.1+784.1 CROSS DRAINAGE (BOX CULVERT) (1)

1-1 SECTION S=1:100 BOX CULVERT

TYPICAL CROSS SECTION S=1:30



PLAN S=1:100



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

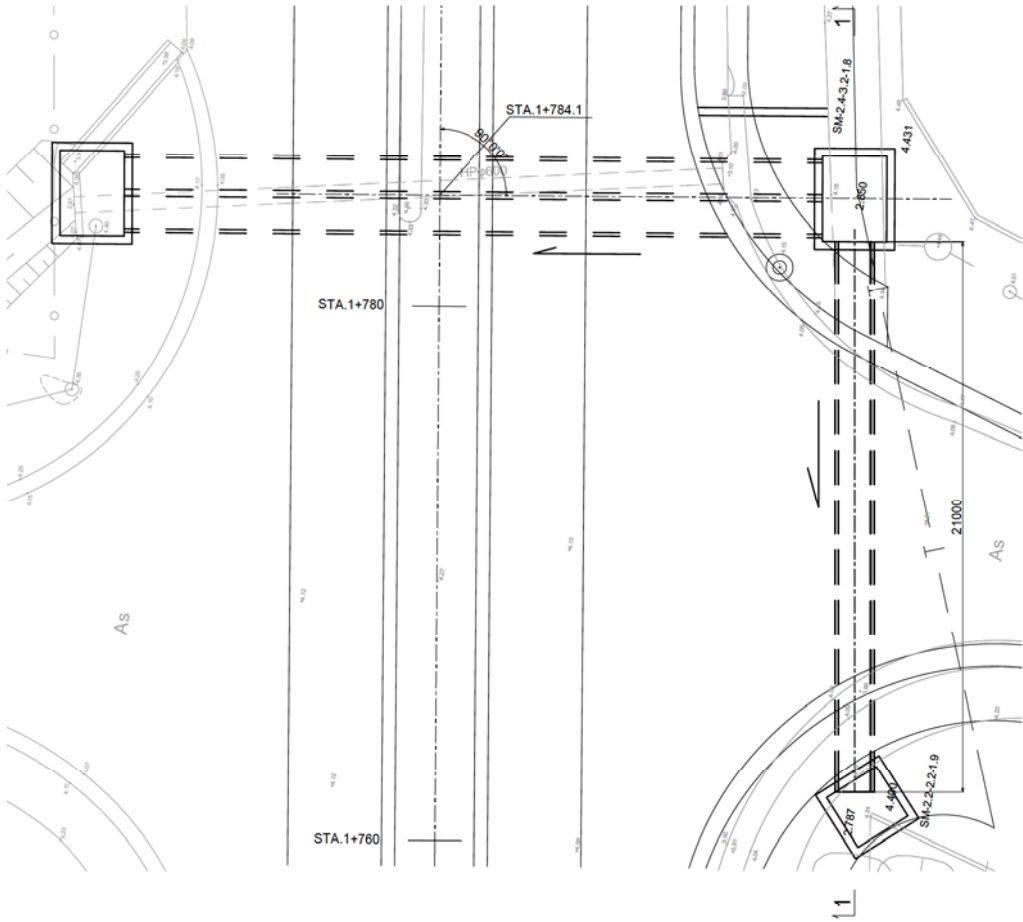
TITLE :
STA.1+784.1
CROSS DRAINAGE (BOX CULVERT) (1)

Drawing No. 033
SCALE 1:100, 1:30
DATE

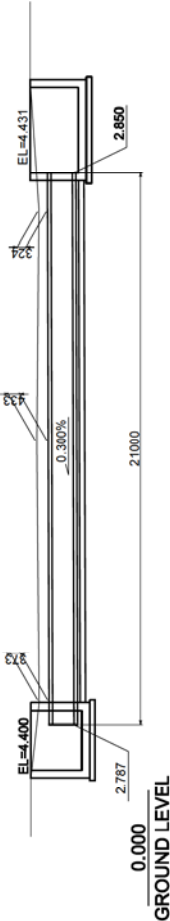
STA.1+784.1 CROSS DRAINAGE (BOX CULVERT) (2)

BOX CULVERT

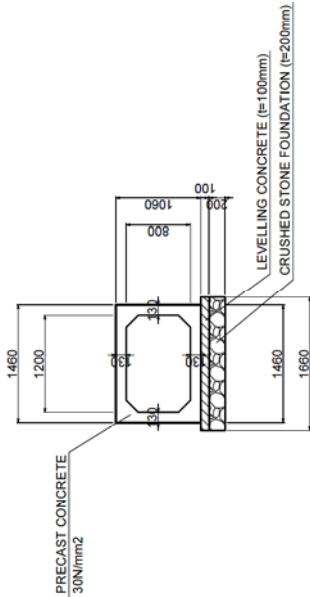
PLAN S=1:100



1-1 SECTION S=1:100



TYPICAL CROSS SECTION S=1:30



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.1+784.1
CROSS DRAINAGE (BOX CULVERT) (2)

Drawing No. 034
SCALE 1:100, 1:30
DATE

STA.1+784.1 CROSS DRAINAGE (BOX CULVERT) (3) S=1:50

CATCH BASIN (1)

LEFT SIDE
(DOWNSTREAM SIDE)

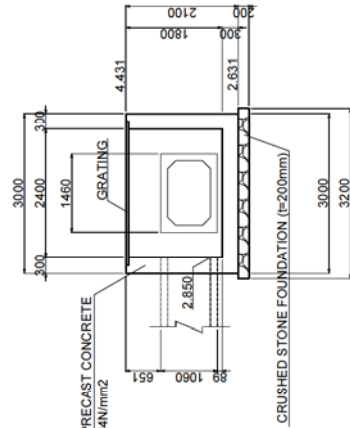
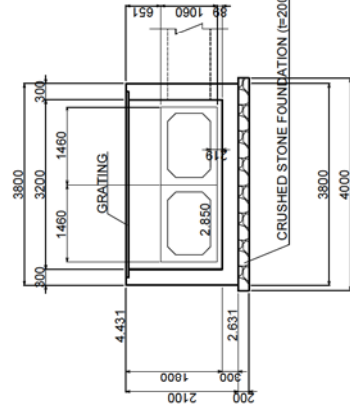
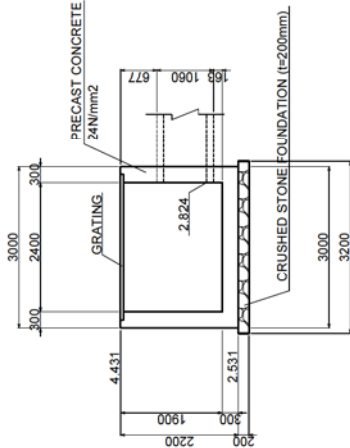
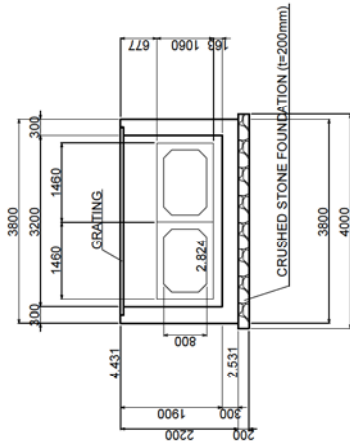
RIGHT SIDE
(UPSTREAM SIDE)

FRONT VIEW

CROSS SECTION

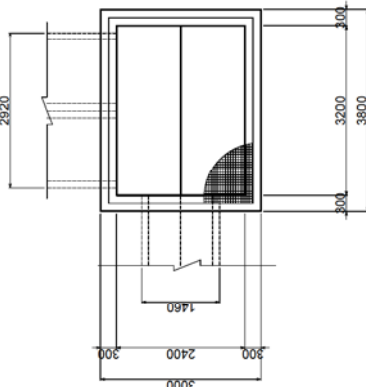
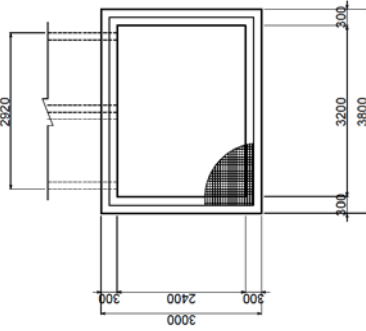
FRONT VIEW

CROSS SECTION



PLAN

PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.1+784.1
CROSS DRAINAGE (BOX CULVERT) (3)

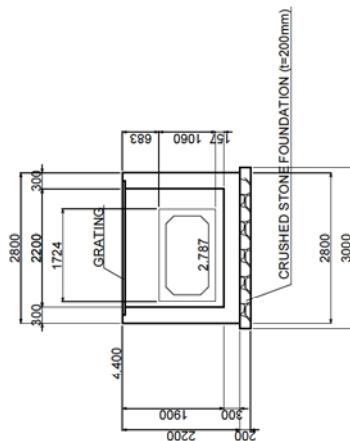
Drawing No. 035
SCALE 1:50
DATE

STA.1+784.1 CROSS DRAINAGE (BOX CULVERT) (4) S=1:50

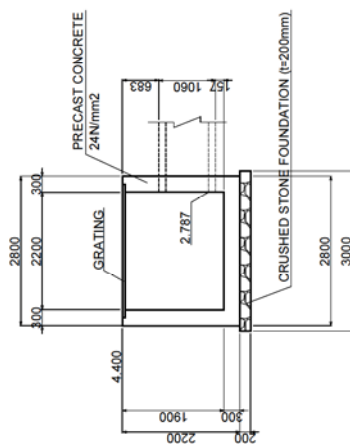
CATCH BASIN (2)

RIGHT SIDE
(UPSTREAM SIDE)

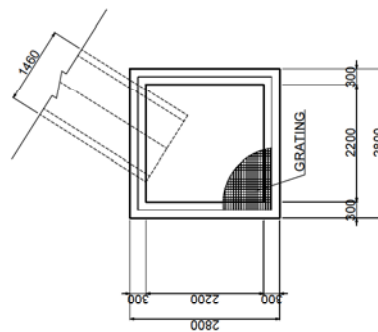
FRONT VIEW



CROSS SECTION



PLAN



Approved by :

Date:



CTI ENGINEERING INTERNATIONAL CO., LTD.

Designed by :

Date:

Checked by :

Date:

PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2

TITLE:

STA.1+784.1
CROSS DRAINAGE (BOX CULVERT) (4)

Drawing No.

036

SCALE

1:50

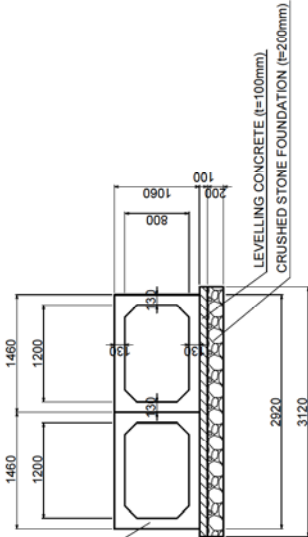
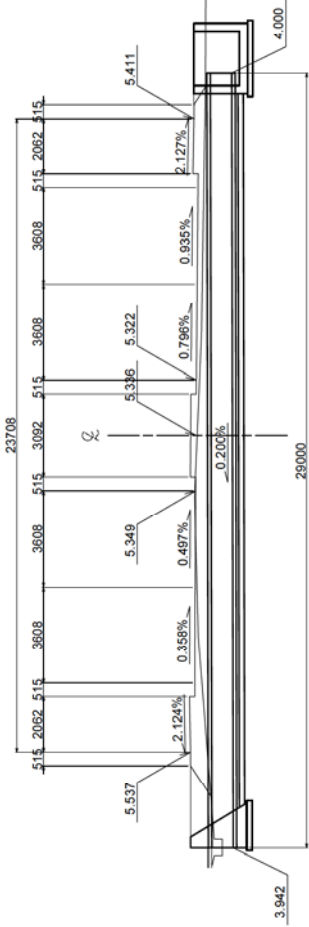
DATE

STA.3+472.0 CROSS DRAINAGE (BOX CULVERT) (1)

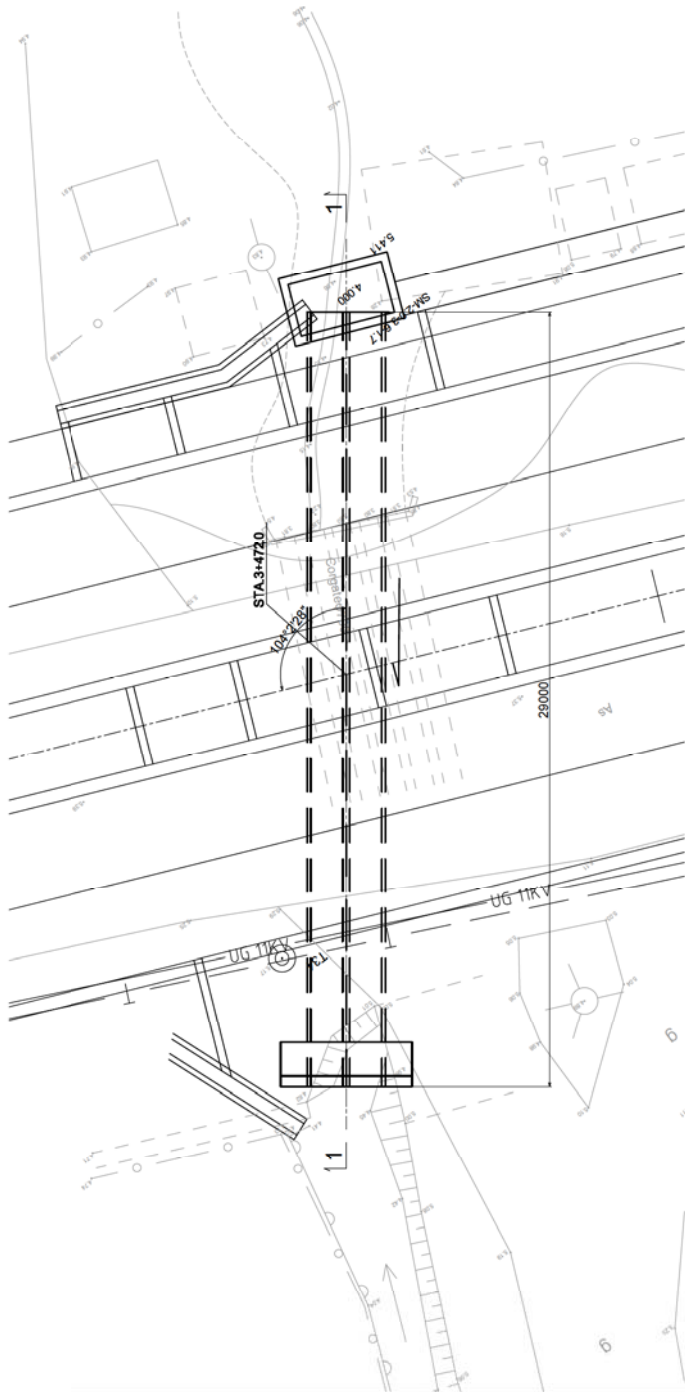
BOX CULVERT

1-1 SECTION S=1:100

TYPICAL CROSS SECTION S=1:30



PLAN S=1:100



0.000
GROUND LEVEL

 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by: _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by: _____ Date: _____ Checked by: _____ Date: _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE:	Drawing No.	037
			STA.3+472.0 CROSS DRAINAGE (BOX CULVERT) (1)	SCALE	1":100, 1:30
				DATE	

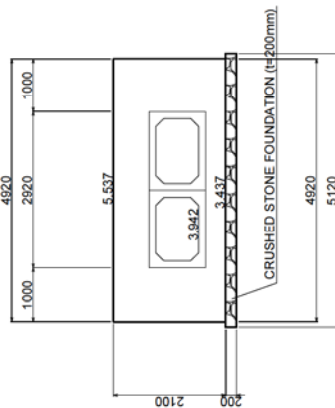
STA.3+472.0 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

CATCH BASIN AND WING WALL

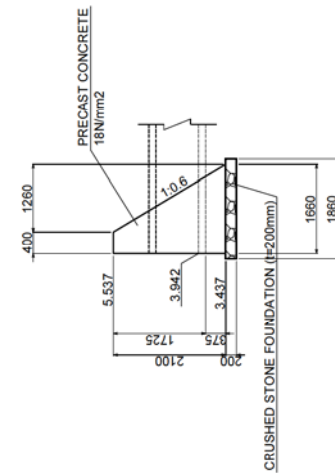
LEFT SIDE
(DOWNSTREAM SIDE)

RIGHT SIDE
(UPSTREAM SIDE)

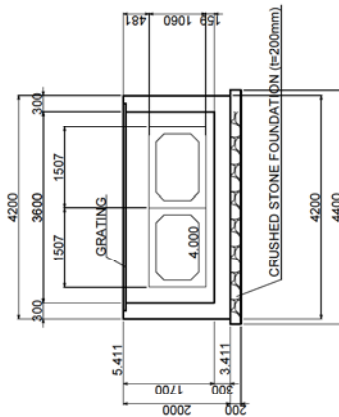
FRONT VIEW



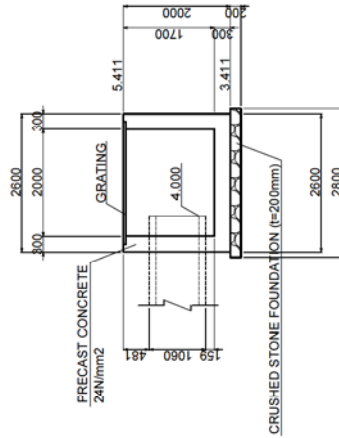
CROSS SECTION



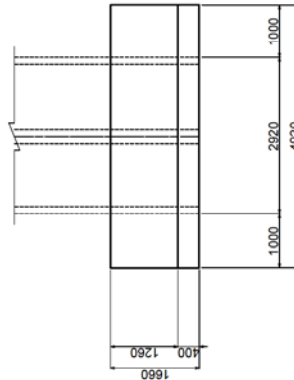
FRONT VIEW



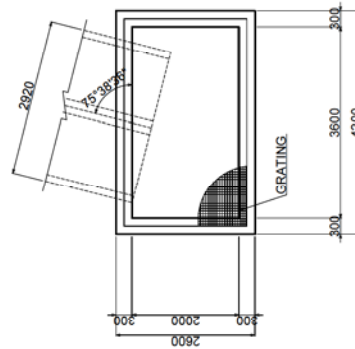
CROSS SECTION



PLAN



PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT
Approved by : _____
Date: _____



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____
Checked by : _____
Date: _____
Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.3+472.0
CROSS DRAINAGE (BOX CULVERT) (2)

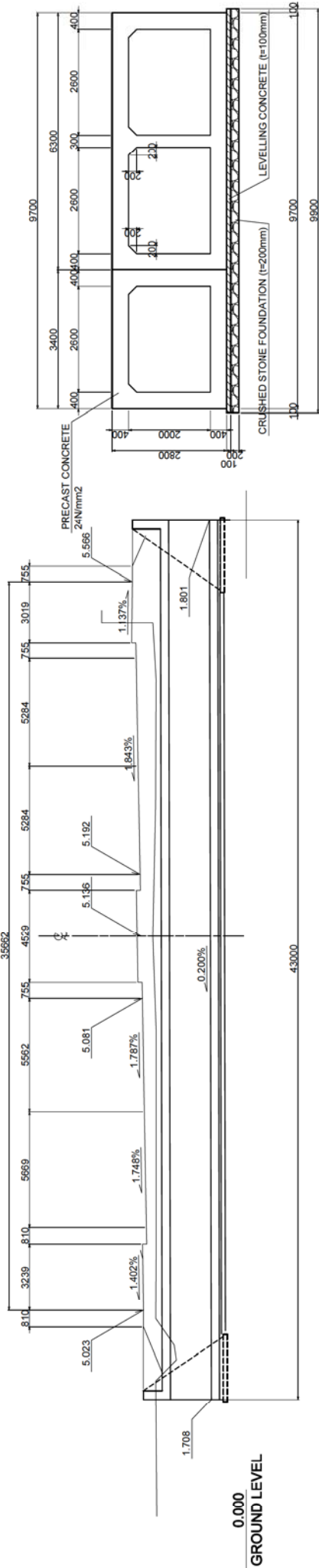
Drawing No. 038
SCALE 1:50
DATE

STA.3+938.4 CROSS DRAINAGE (BOX CULVERT)(1)

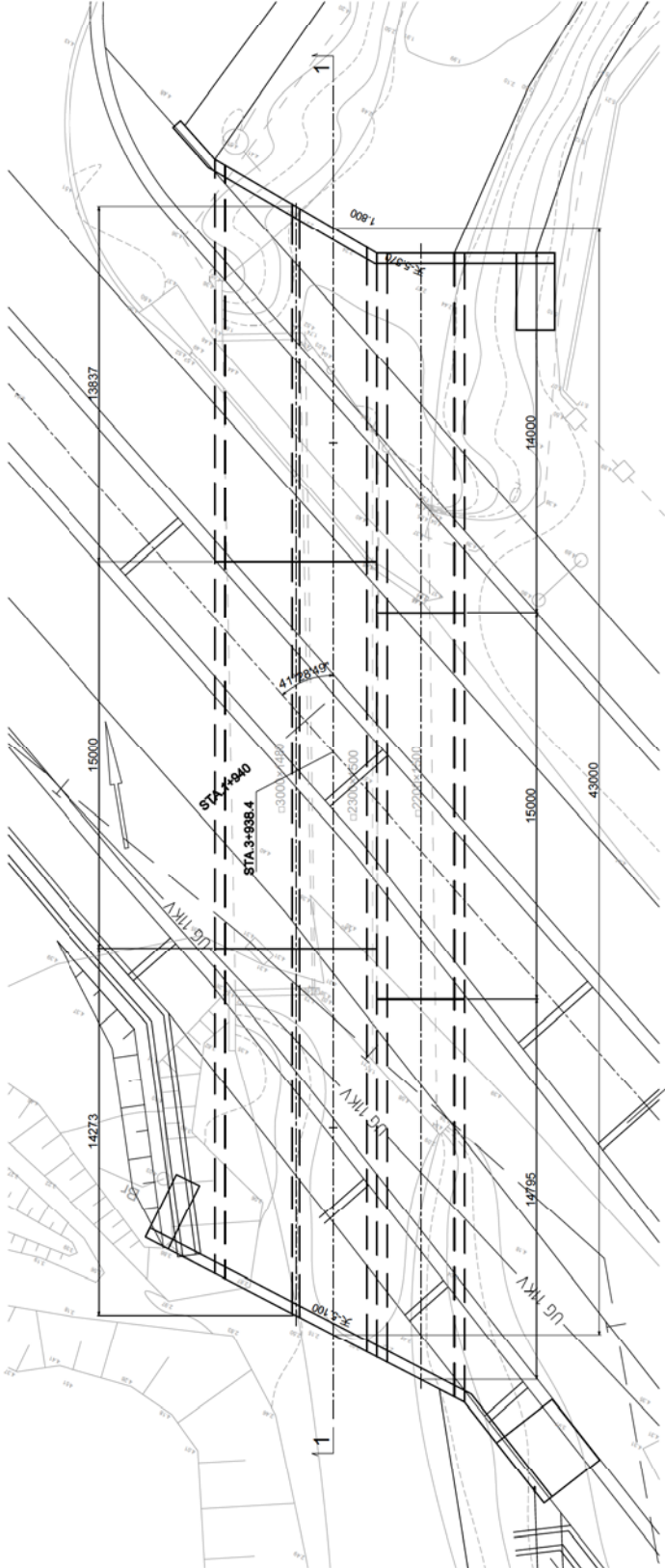
BOX CULVERT

1-1 SECTION S=1:100

TYPICAL CROSS SECTION S=1:50



PLAN S=1:100



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.3+938.4
CROSS DRAINAGE (BOX CULVERT) (1)

Drawing No. 039
SCALE 1:100, 1:50
DATE

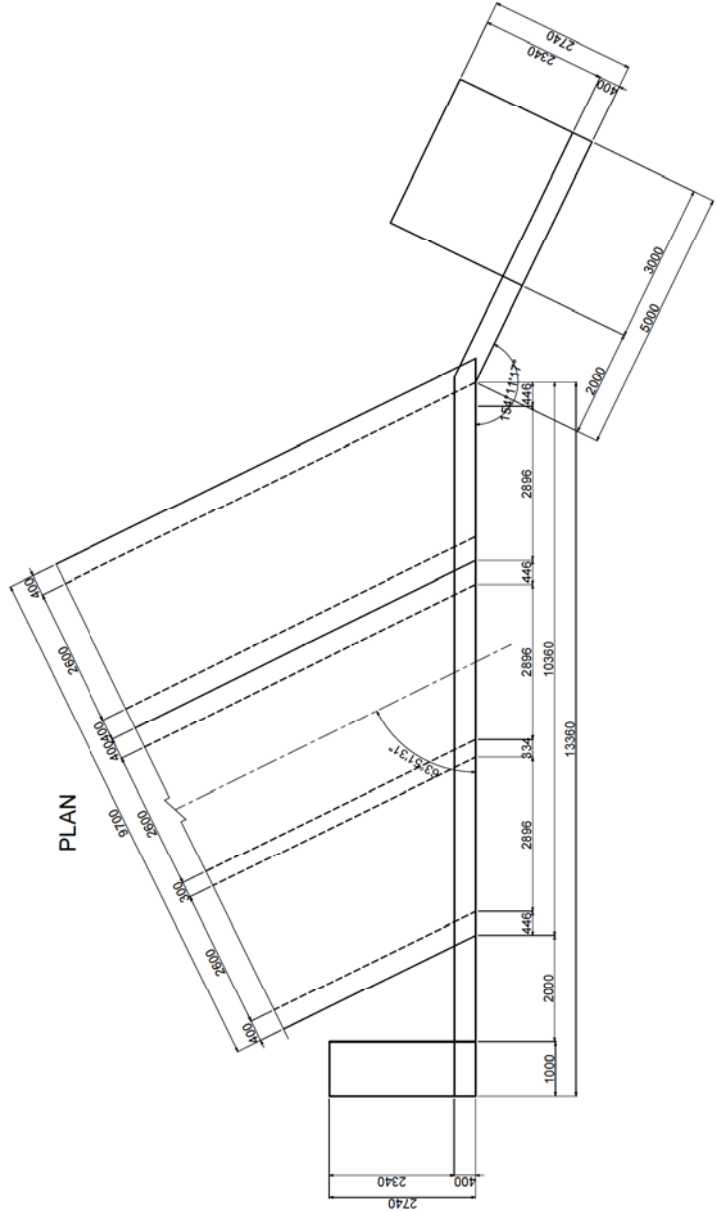
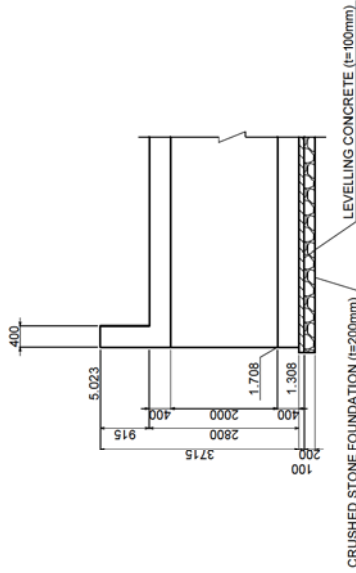
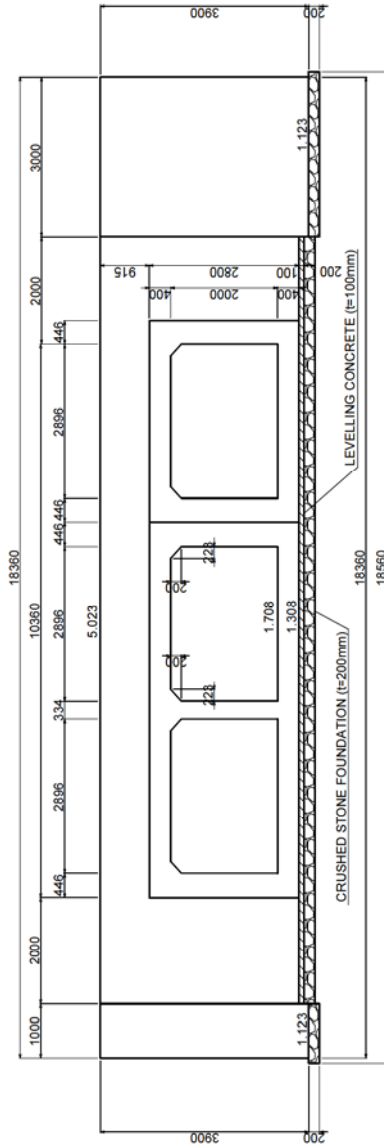
STA.3+938.4 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

WING WALL (1)

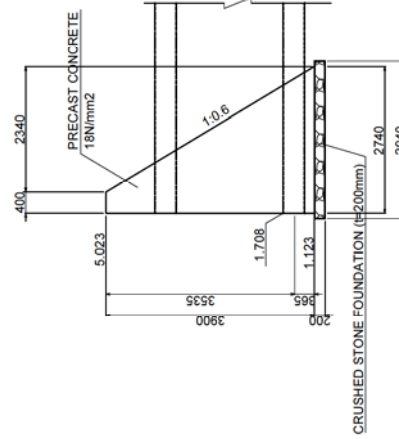
LEFT SIDE
(DOWNSTREAM SIDE)

FRONT VIEW

CROSS SECTION



CROSS SECTION



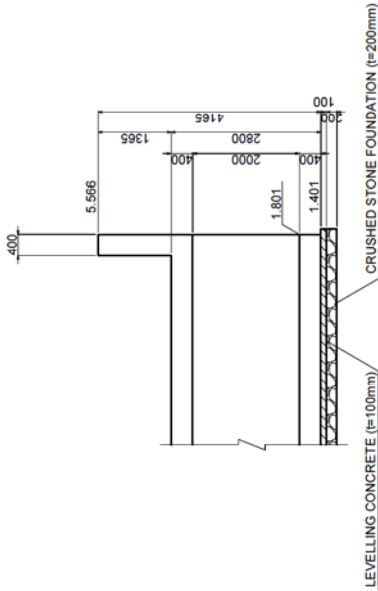
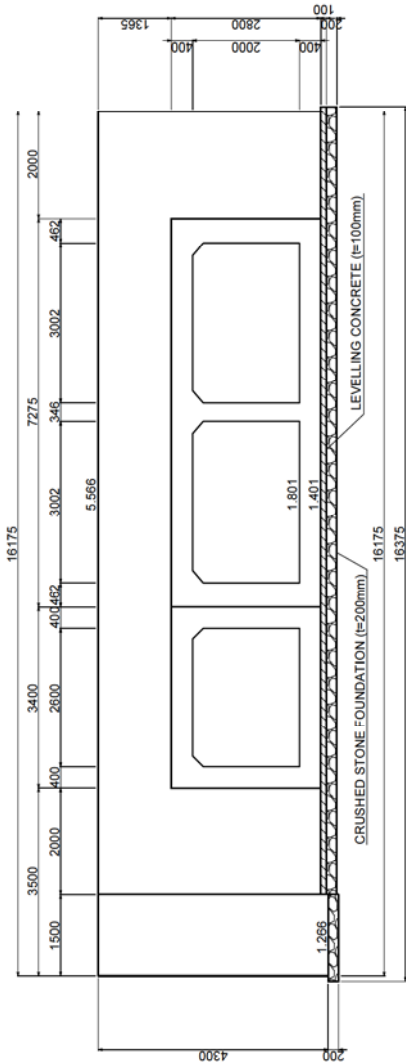
 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : _____ Checked by : _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE : STA.3+938.4 CROSS DRAINAGE (BOX CULVERT) (2)	Drawing No.	040
				SCALE	1:50
				DATE	

STA.3+938.4 CROSS DRAINAGE (BOX CULVERT) (3) S=1:50

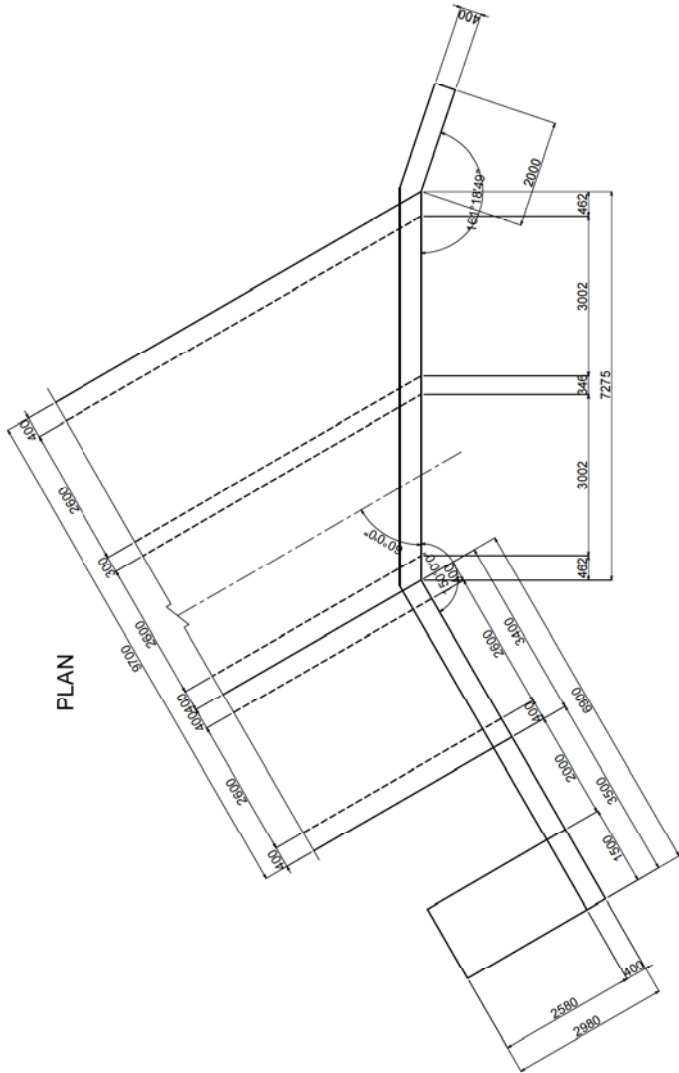
WING WALL (2)
RIGHT SIDE
(UPSTREAM SIDE)

FRONT VIEW

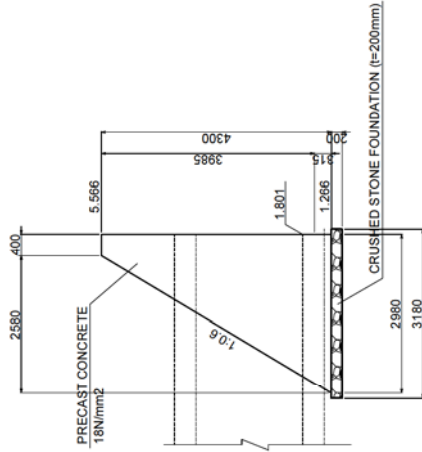
CROSS SECTION



PLAN



CROSS SECTION



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.3+938.4
CROSS DRAINAGE (BOX CULVERT) (3)

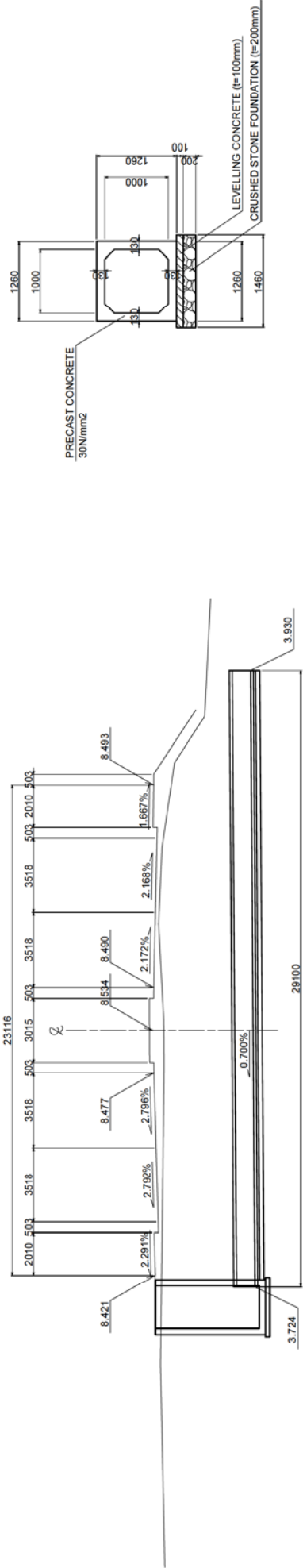
Drawing No. 041
SCALE 1:50
DATE

STA.4+756.8 CROSS DRAINAGE (BOX CULVERT) (1)

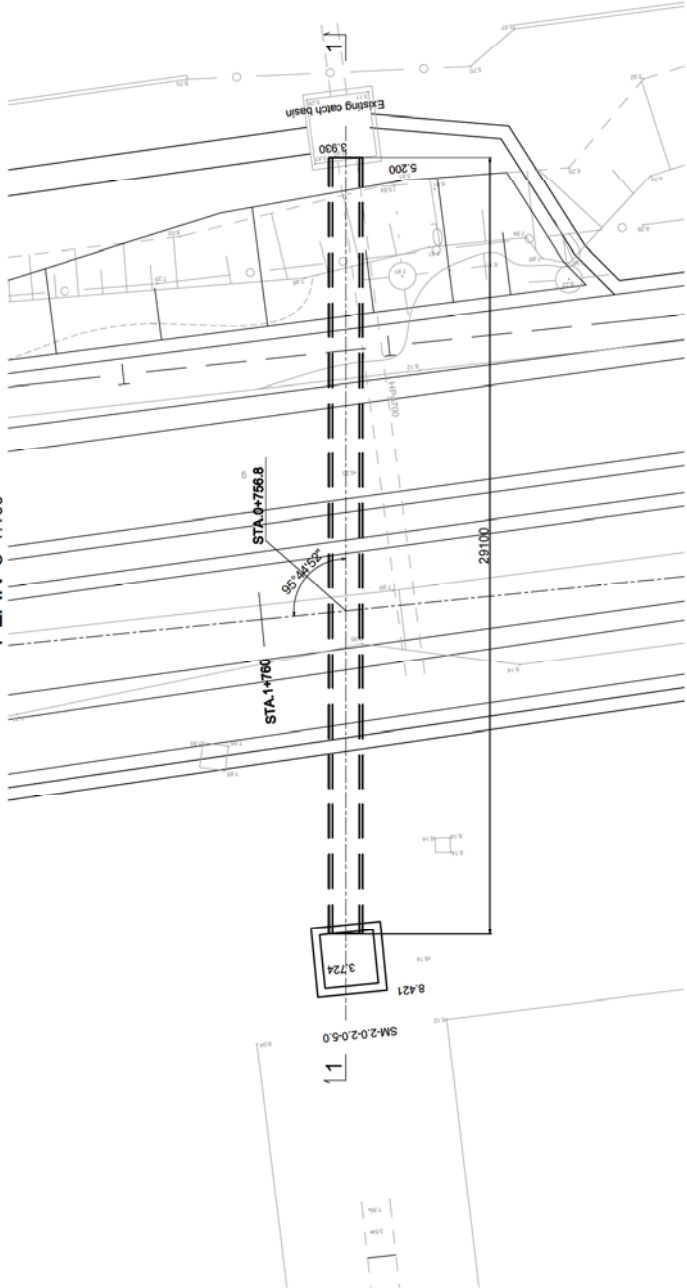
BOX CULVERT

TYPICAL CROSS SECTION S=1:30

1-1 SECTION S=1:100



PLAN S=1:100



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.4+756.8
CROSS DRAINAGE (BOX CULVERT) (1)

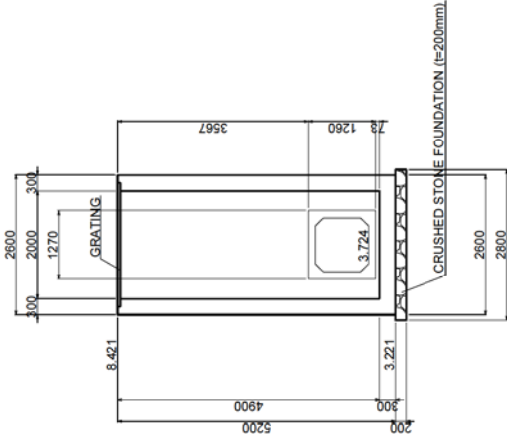
Drawing No. 042
SCALE 1:100, 1:30
DATE

STA.4+756.8 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

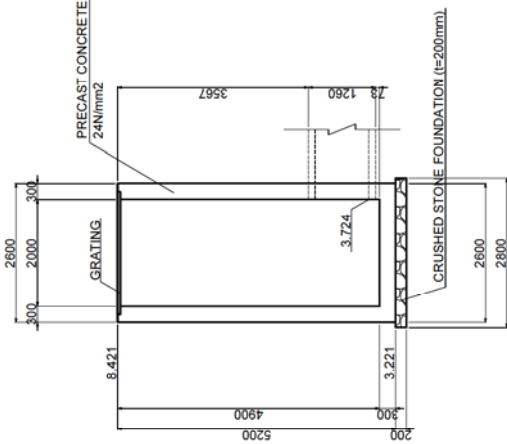
CATCH BASIN

LEFT SIDE
(DOWNSTREAM SIDE)

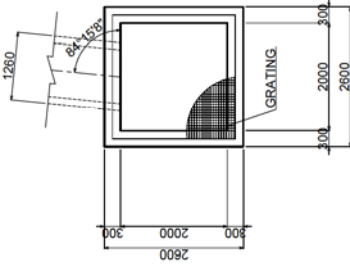
FRONT VIEW



CROSS SECTION



PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

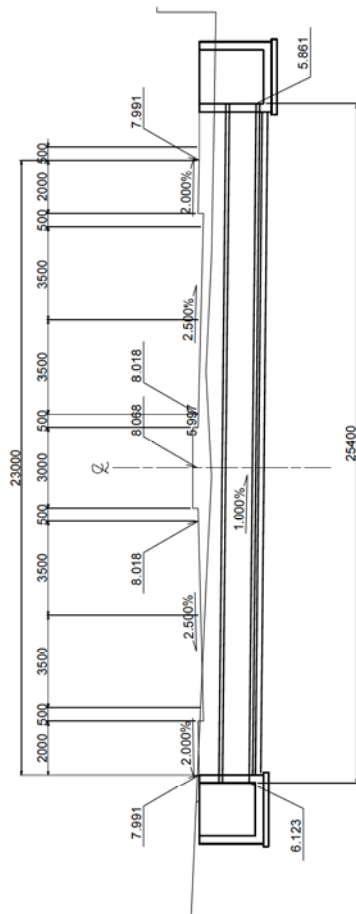
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.4+756.8
CROSS DRAINAGE (BOX CULVERT) (2)

Drawing No. 043
SCALE 1:50
DATE

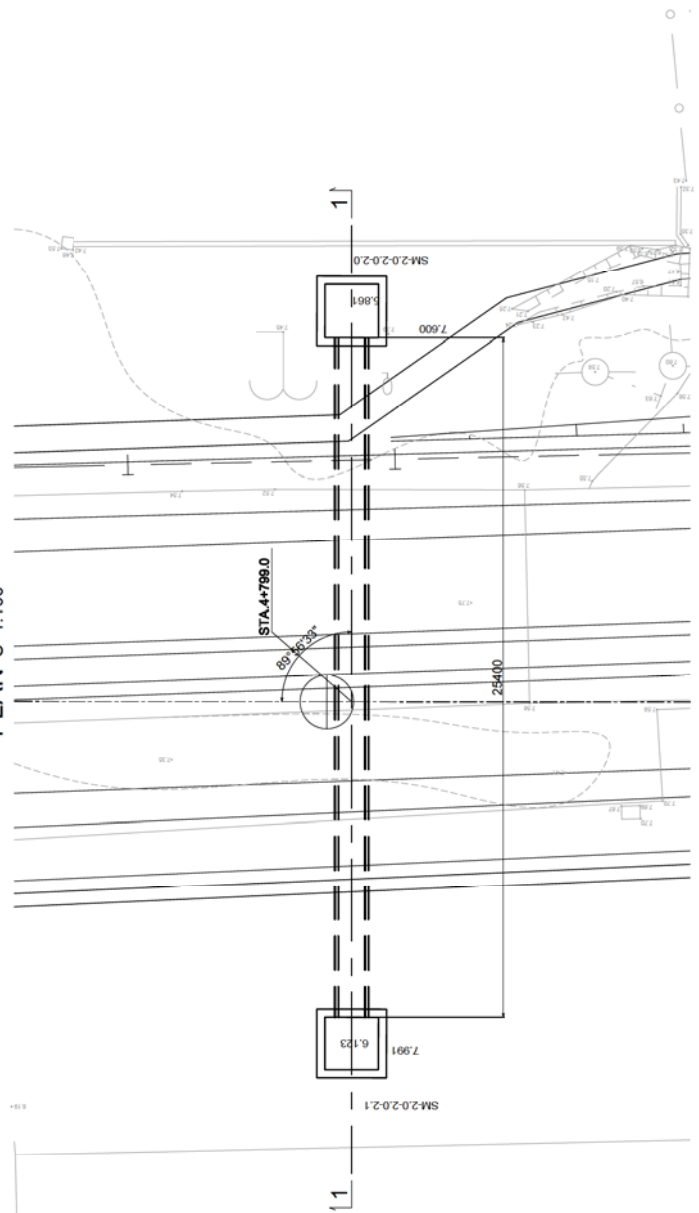
BOX CULVERT

1-1 SECTION S=1:100

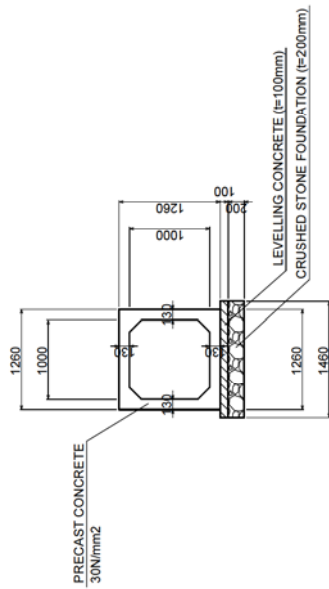


0.000
GROUND LEVEL

PLAN S=1:100



TYPICAL CROSS SECTION S=1:30



 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by: _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by: _____ Date: _____ Checked by: _____ Date: _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE :	
			STA.4+799.0	
			CROSS DRAINAGE (BOX CULVERT) (1)	
			Drawing No.	044
		SCALE	1:100, 1:30	
		DATE		

STA.4+799.0 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

CATCH BASIN

LEFT SIDE
(UPSTREAM SIDE)

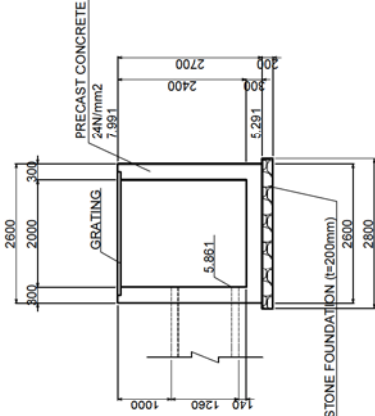
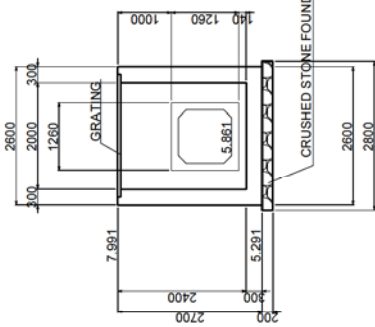
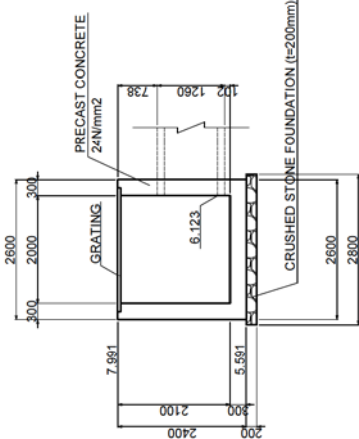
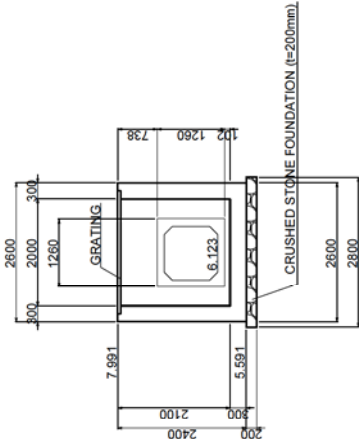
RIGHT SIDE
(DOWNSTREAM SIDE)

FORNT VIEW

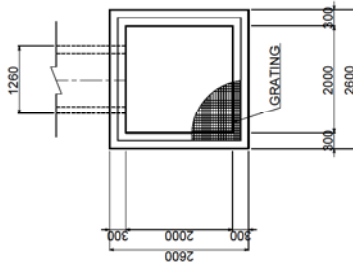
CROSS SECTION

FRONT VIEW

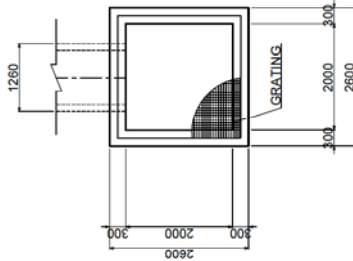
CROSS SECTION



PLAN



PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT
Approved by :
Date:



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by :
Checked by :
Date:
Date:

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.4+799.0
CROSS DRAINAGE (BOX CULVERT) (2)

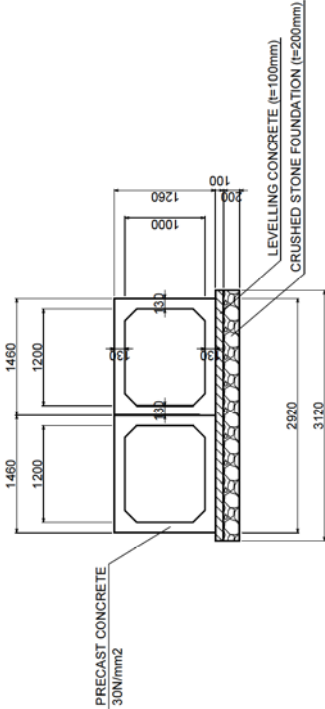
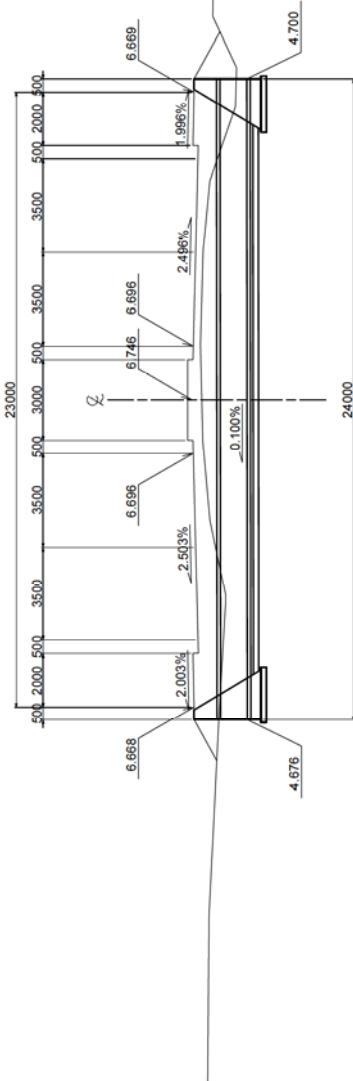
Drawing No. 045
SCALE 1:50
DATE

STA.5+973.9 CROSS DRAINAGE (BOX CULVERT) (1)

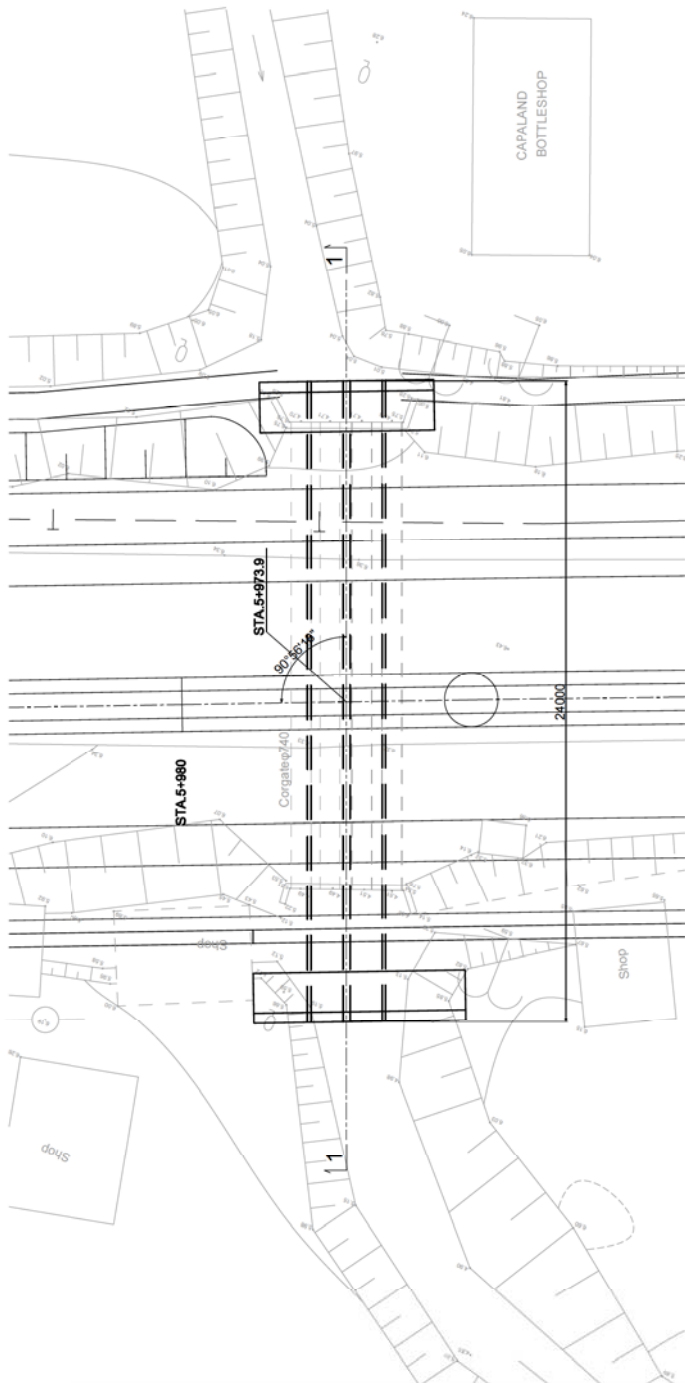
BOX CULVERT

1-1 SECTION S=1:100

TYPICAL CROSS SECTION S=1:30



PLAN S=1:100



	SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT		CTI ENGINEERING INTERNATIONAL CO., LTD.		TITLE :		Drawing No.		046	
	Approved by : _____		Designed by : _____		PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2		SCALE		1:100, 1:30	
	Date: _____		Checked by : _____		CROSS DRAINAGE (BOX CULVERT) (1)		DATE			

STA.5+973.9 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

WING WALL

LEFT SIDE
(DOWNSTREAM SIDE)

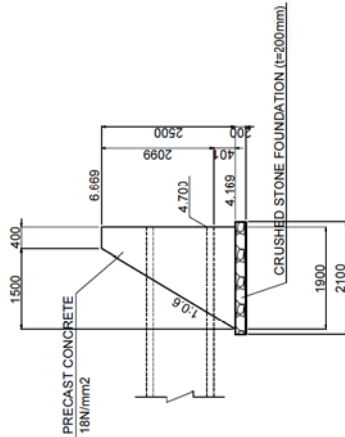
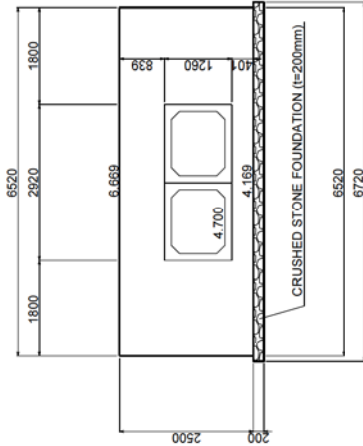
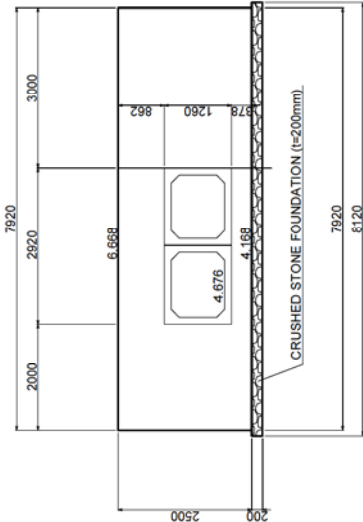
RIGHT SIDE
(UPSTREAM SIDE)

FRONT VIEW

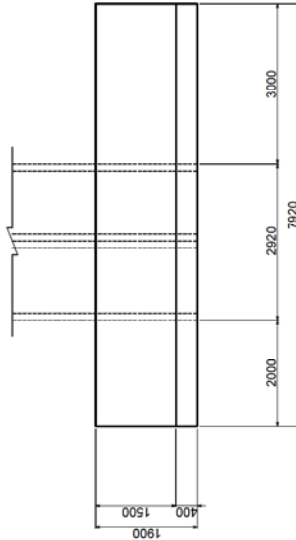
CROSS SECTION

FRONT VIEW

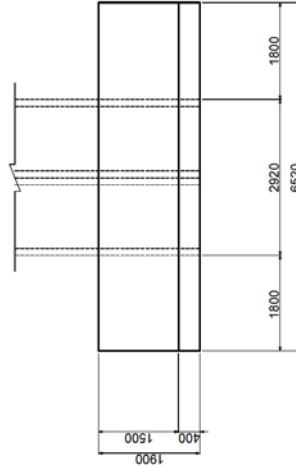
CROSS SECTION



PLAN



PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT
Approved by : _____
Date: _____



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.5+973.9
CROSS DRAINAGE (BOX CULVERT) (2)

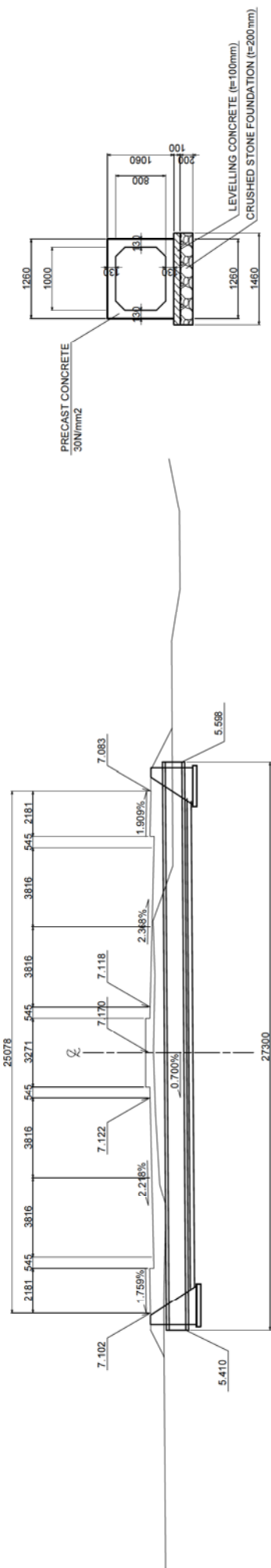
Drawing No. 047
SCALE 1:50
DATE

STA.6+389.9 CROSS DRAINAGE (BOX CULVERT) (1)

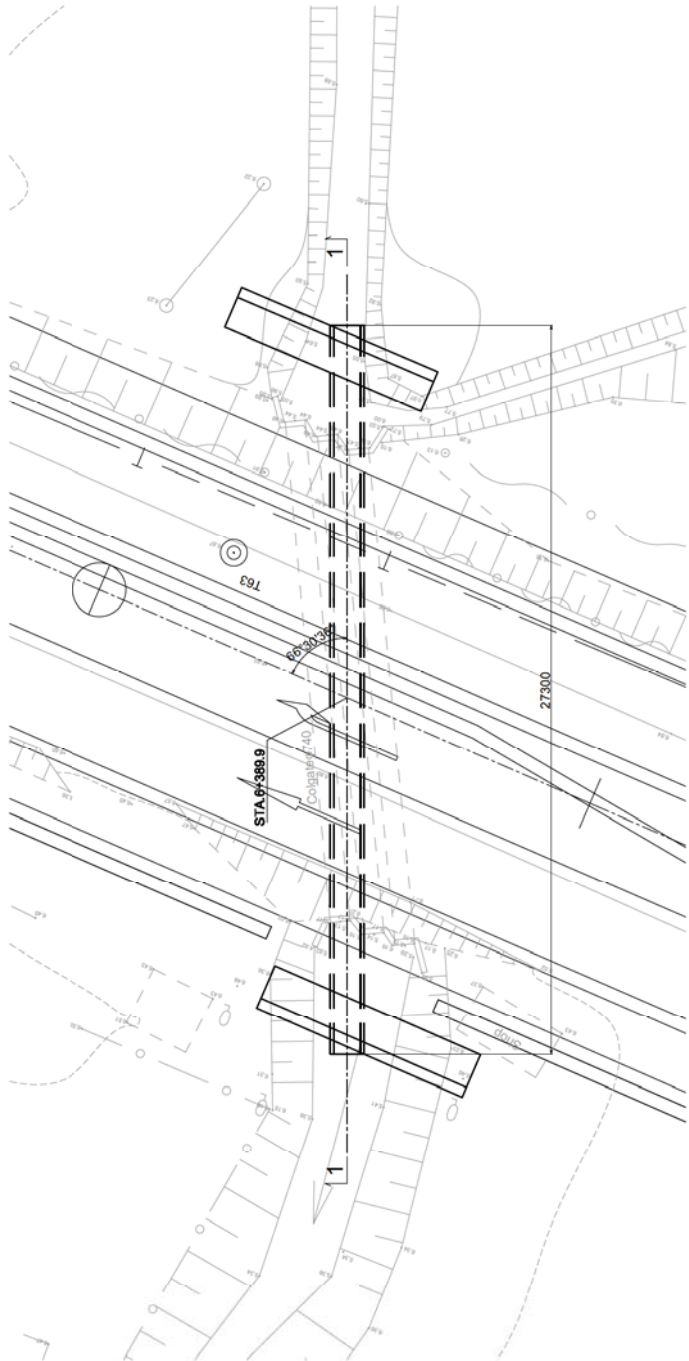
BOX CULVERT

1-1 SECTION S=1:100

TYPICAL CROSS SECTION S=1:30



PLAN S=1:100



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.6+389.9
CROSS DRAINAGE (BOX CULVERT) (1)

Drawing No. 048
SCALE 1:100, 1:30
DATE

STA.6+389.9 CROSS DRAINAGE (BOX CULVERT) (2) S=1:50

WING WALL

LEFT SIDE
(DOWNSTREAM SIDE)

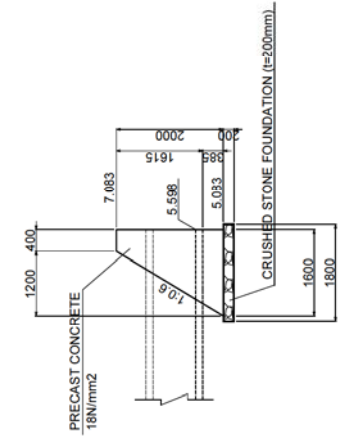
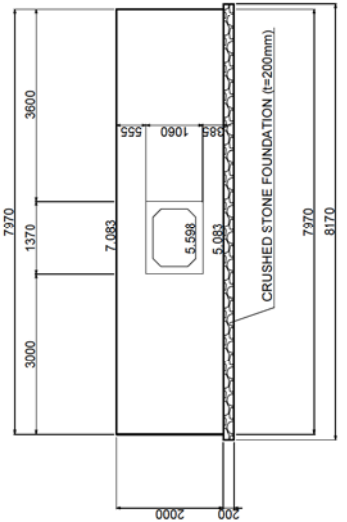
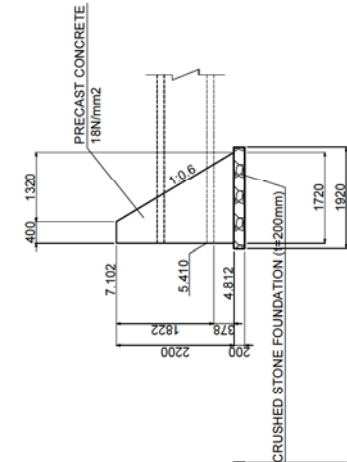
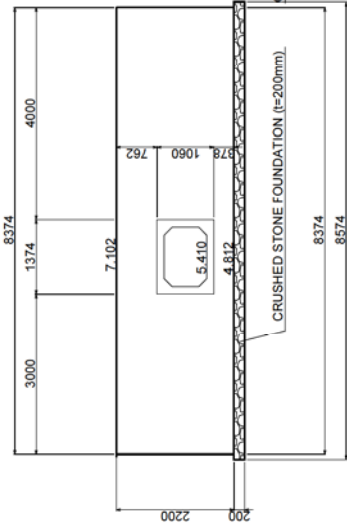
RIGHT SIDE
(UPSTREAM SIDE)

FRONT VIEW

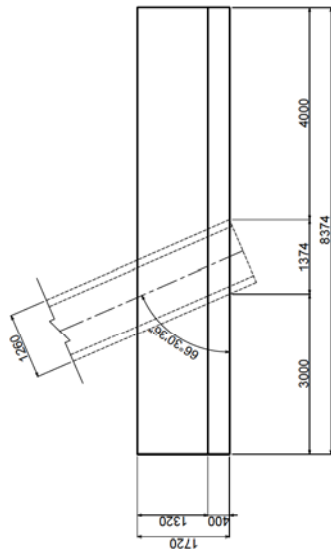
CROSS SECTION

FRONT VIEW

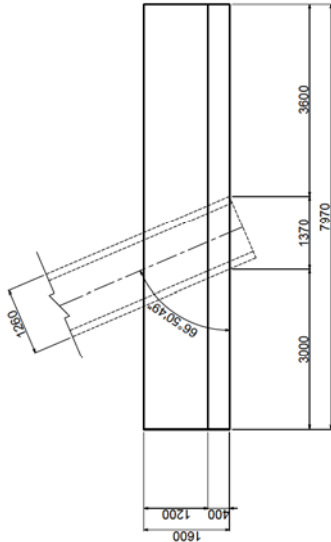
CROSS SECTION



PLAN



PLAN



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT

CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by : _____ Date: _____
Checked by : _____ Date: _____

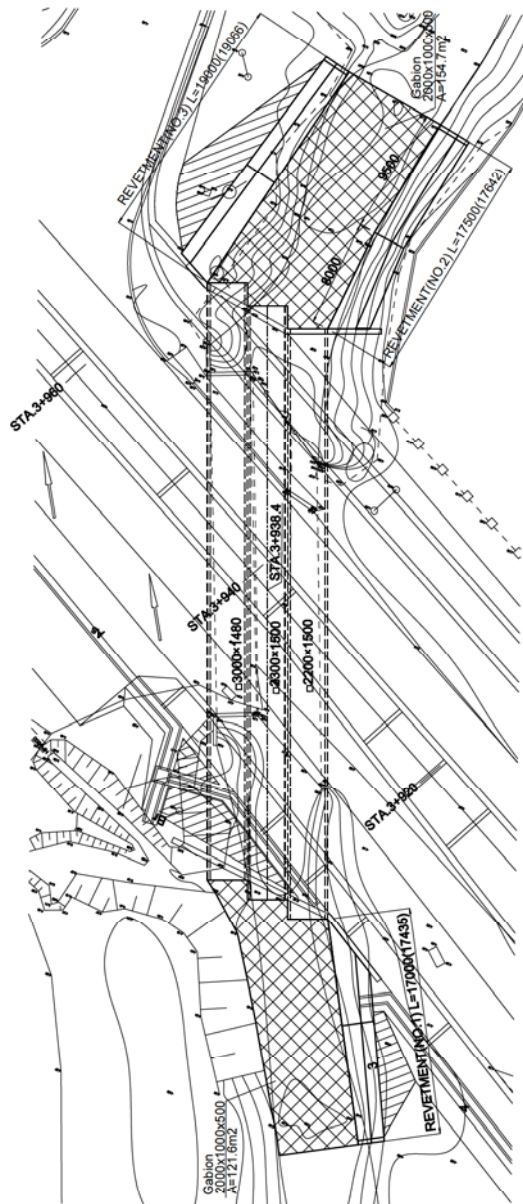
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
STA.6+389.9
CROSS DRAINAGE (BOX CULVERT) (2)

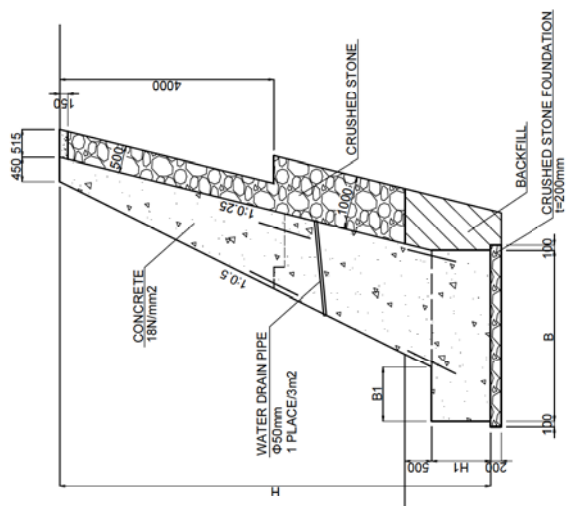
Drawing No. 049
SCALE 1:50
DATE

RETMENT

PLAN S=1:200

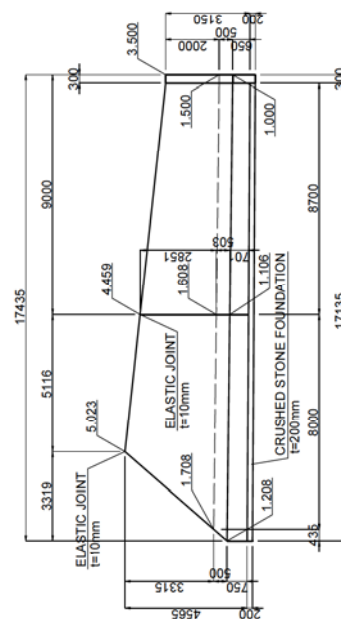


CROSS SECTION S=1:50

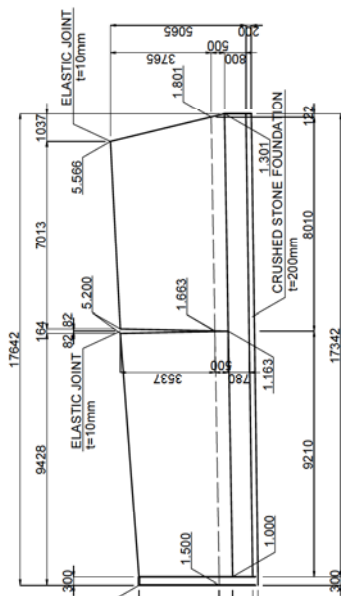


FRONT VIEW S=1:100

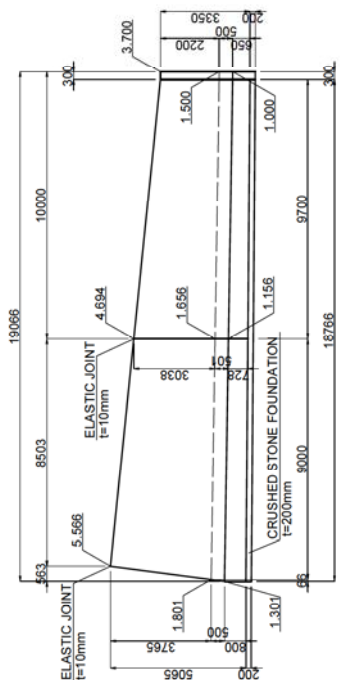
RETMET (NO.1)



RETMET (NO.2)



RETMET (NO.3)



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT

Approved by : _____ Date: _____



CTI ENGINEERING INTERNATIONAL CO., LTD.

Designed by : _____ Date: _____

Checked by : _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
RETMENT

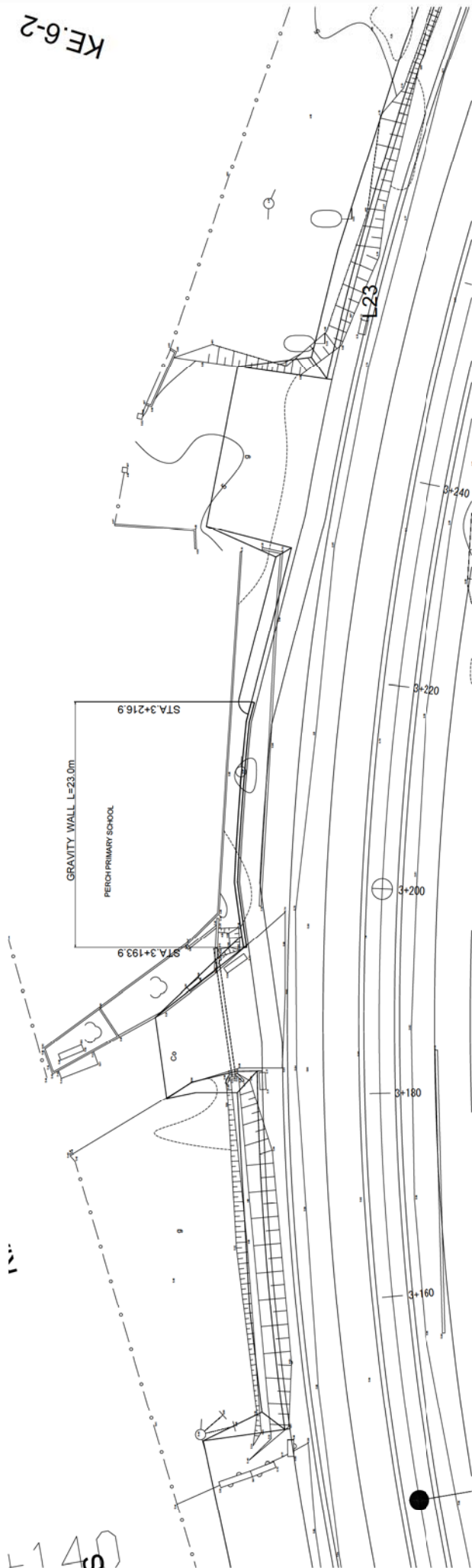
Drawing No. 050

SCALE 1:200, 1:100, 1:50

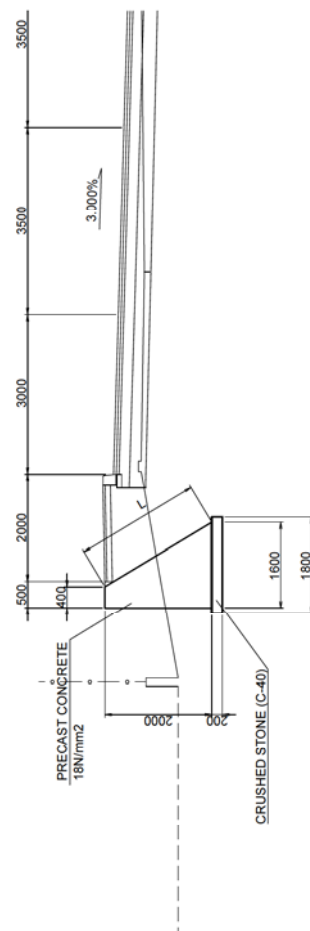
DATE

RETAINING WALL (1)

PLAN S=1:200



GRAVITY WALL CROSS SECTION S=1:50



GW36 DIMENSION TABLE (mm)				REMARKS
H	B	L		
2000	1600	2333		

SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
INFRASTRUCTURE DEVELOPMENT



CTI ENGINEERING INTERNATIONAL CO., LTD.

Designed by :
Checked by :

Date:
Date:

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :

RETAINING WALL (1)

Drawing No.

051

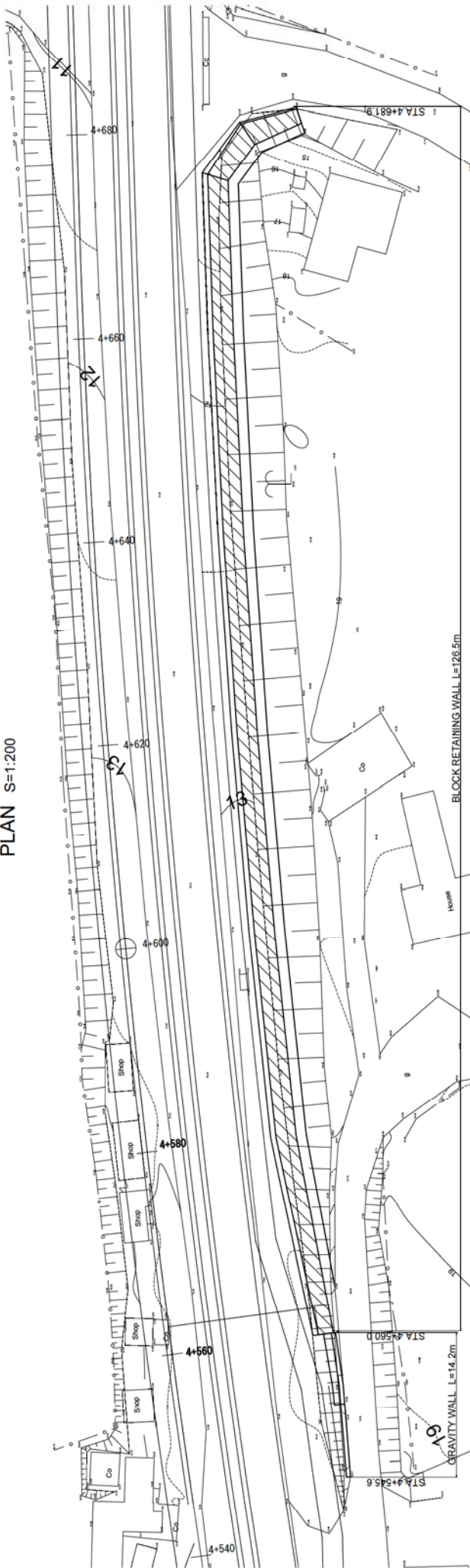
SCALE

1:200, 1:50

DATE

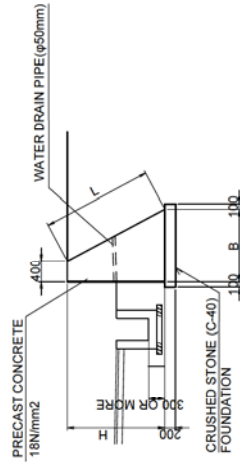
RETAINING WALL (2)

PLAN S=1:200



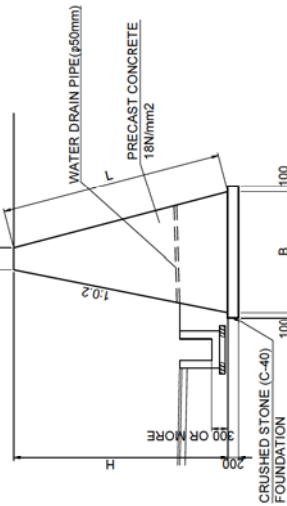
GRAVITY WALL CROSS SECTION S=1:50

GW36



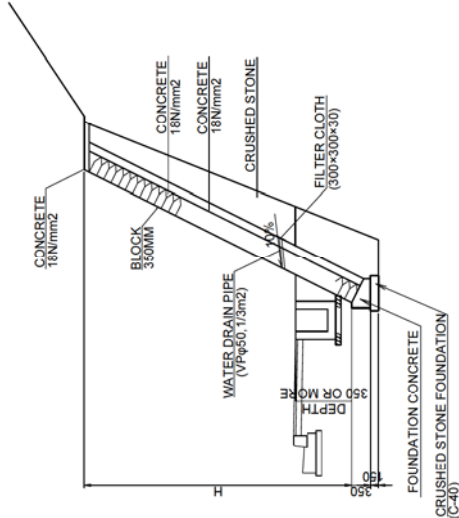
GW36 DIMENSION TABLE (mm)				REMARKS
H	B	L		
1820	1492	2122		
3000	2200	3499		

GW62



GW62 DIMENSION TABLE (mm)				REMARKS
H	B	L		
3000	1798	3102		
3325	1938	3438		
3881	2195	4012		

RETAINING WALL CROSS SECTION S=1:50



SOLOMON ISLANDS GOVERNMENT
MINISTRY OF
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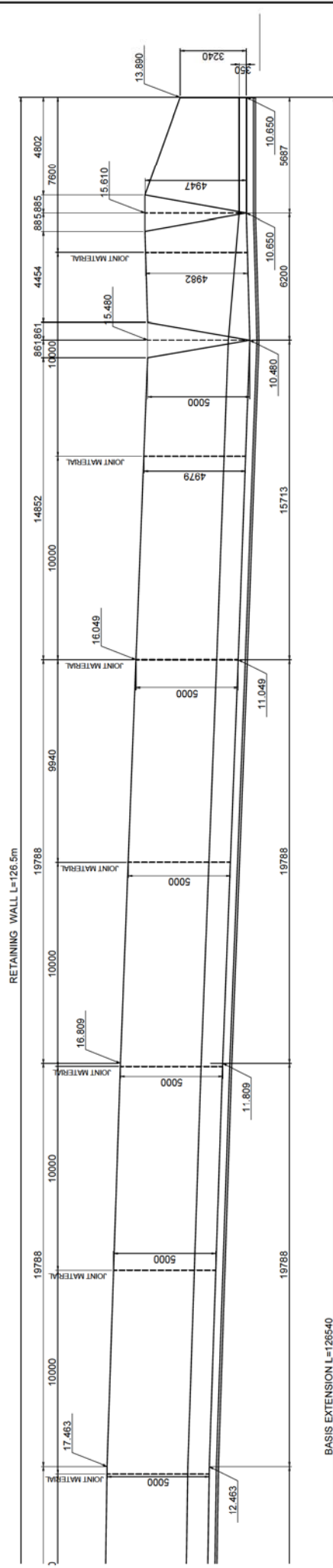
CTI ENGINEERING INTERNATIONAL CO., LTD.
Designed by: _____ Date: _____
Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
RETAINING WALL (2)

Drawing No. 052
SCALE 1:200, 1:50
DATE

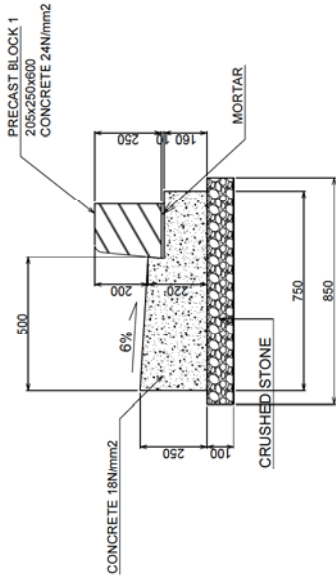
REAR VIEW S=1:100



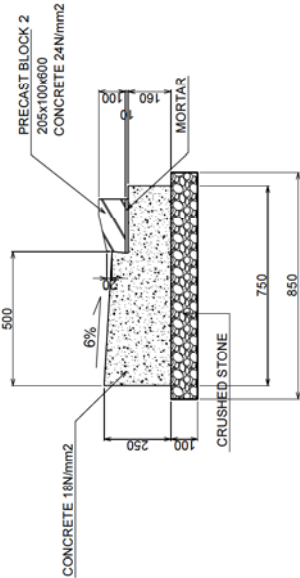
 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by : _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : _____ Date: _____ Checked by : _____ Date: _____	TITLE : PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2		Drawing No.	053
		RETAINING WALL (3)		SCALE	1:100
				DATE	

DRAINAGE STRUCTURE GENERAL DRAWINGS (1) S=1:10

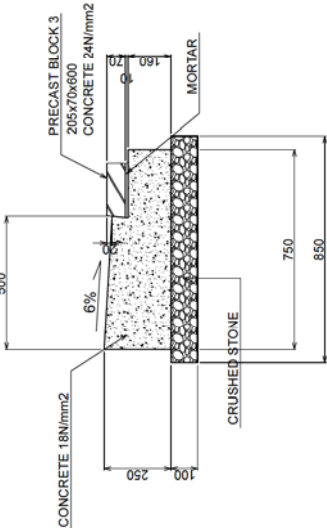
Type1
CS-200A



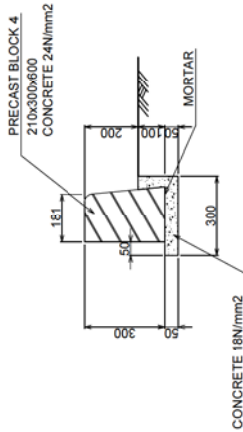
Type1-2
CS-100A



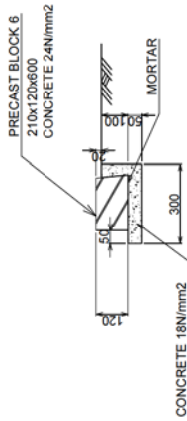
Type1-3
CS-70A



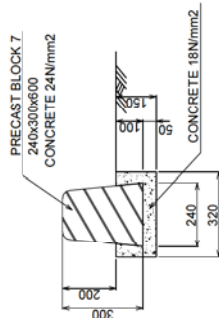
Type2



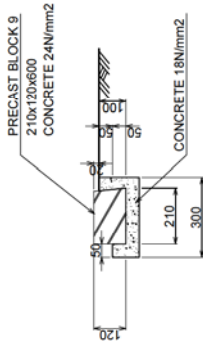
Type2-3



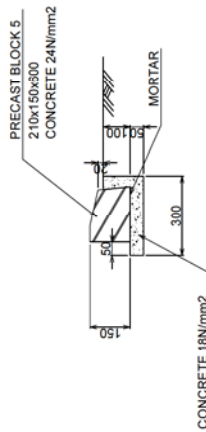
Type3



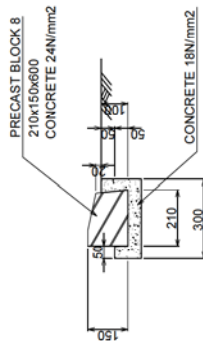
Type3-3



Type2-2



Type3-2



SOLOMON ISLANDS GOVERNMENT
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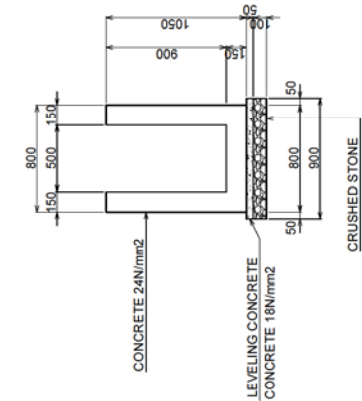
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

DRAINAGE STRUCTURE
GENERAL DRAWINGS (1)

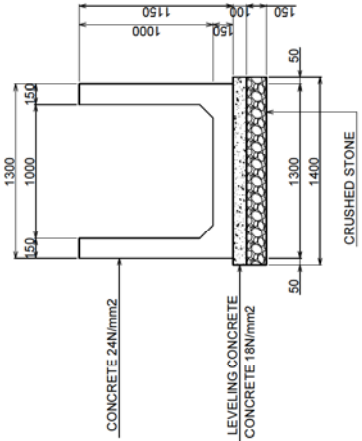
Drawing No. 054
SCALE 1:10
DATE

DRAINAGE STRUCTURE GENERAL DRAWINGS (3) S=1:20

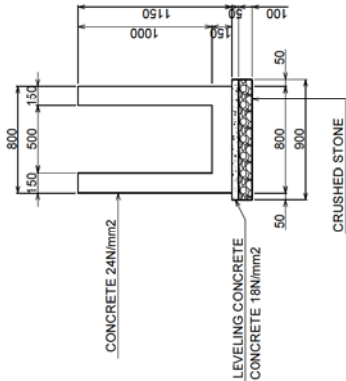
U-0.50-0.90



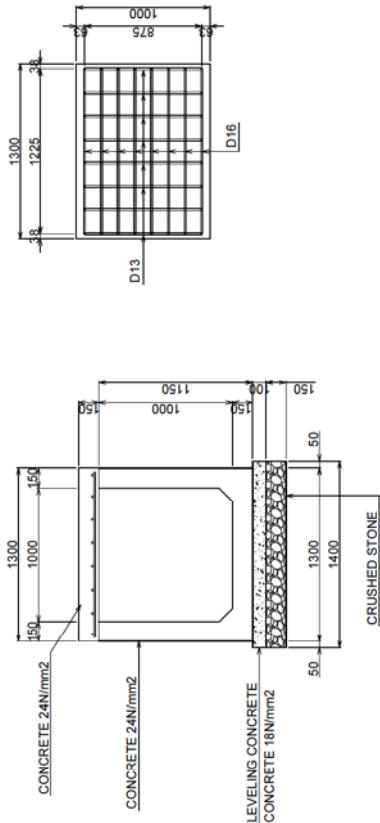
U-1.00-1.00



U-0.50-1.00



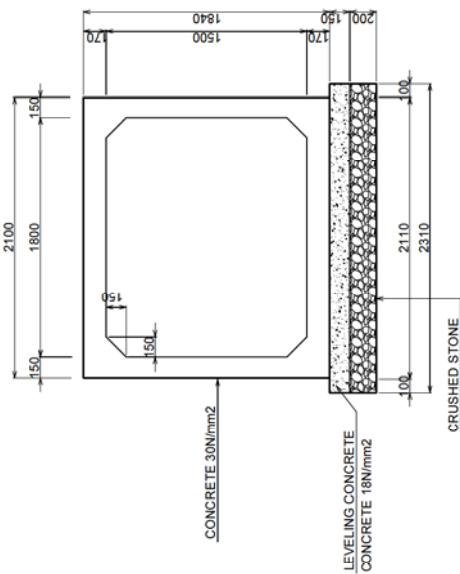
U-1.00-1.00 (COVER)



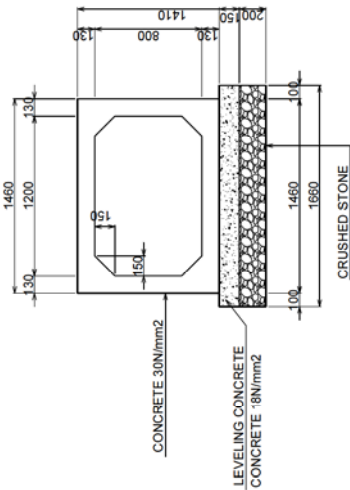
	SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by : _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : _____ Date: _____ Checked by : _____ Date: _____	TITLE : PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	DRAINAGE STRUCTURE GENERAL DRAWINGS (3)	Drawing No.	056
					SCALE	1:20
					DATE	

DRAINAGE STRUCTURE GENERAL DRAWINGS (4) S=1:20

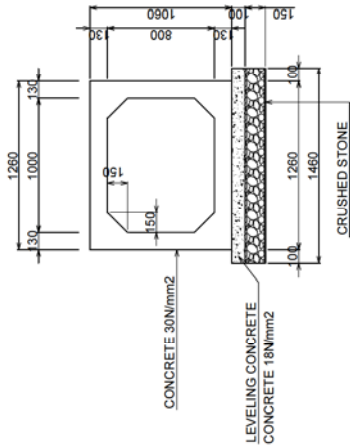
B1.80-H1.50



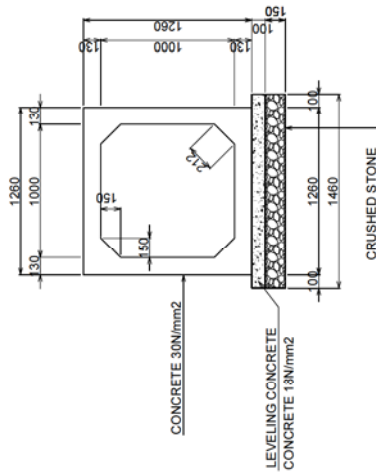
B1.20-H0.80



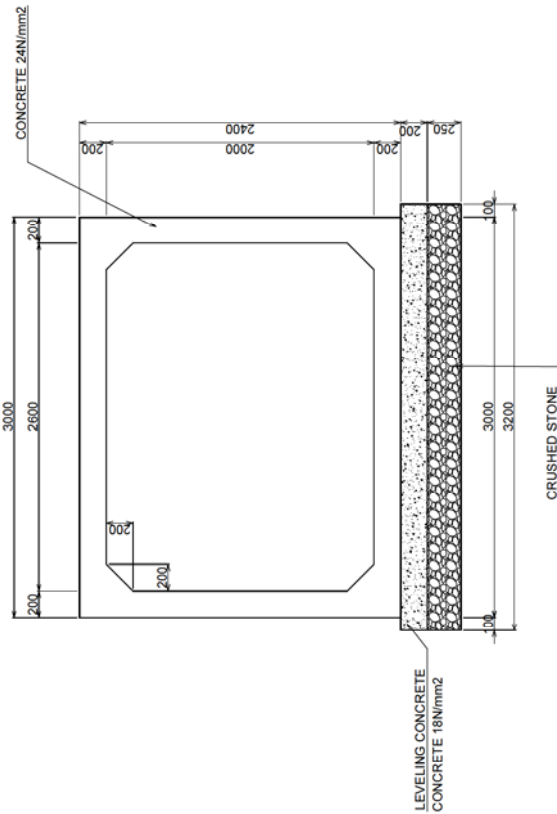
B1.00-H0.80



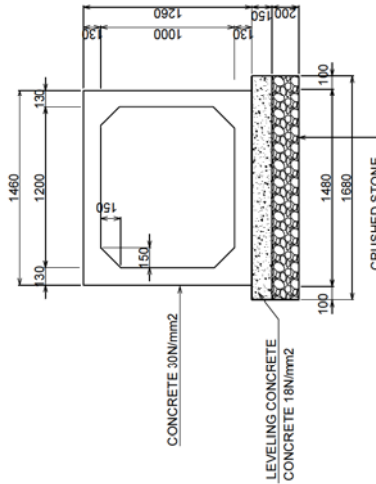
B1.00-H1.00



B2.60-H2.00



B1.20-H1.00



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MINISTRY OF
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CTI ENGINEERING INTERNATIONAL CO., LTD.
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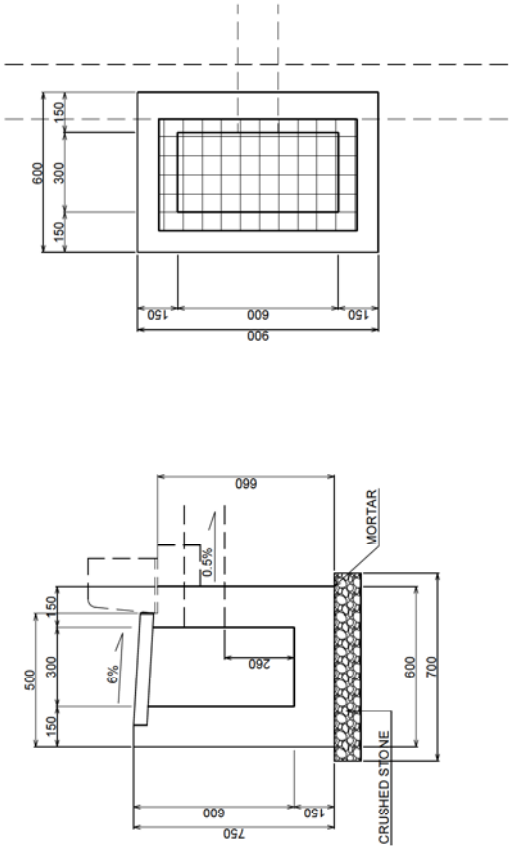
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

DRAINAGE STRUCTURE
GENERAL DRAWINGS (4)

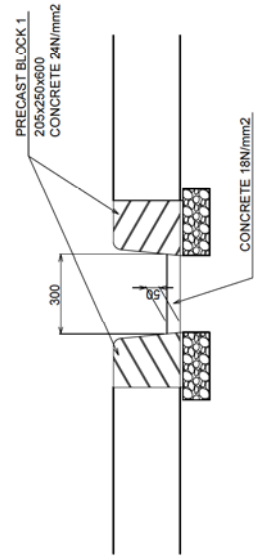
Drawing No. 057
SCALE 1:20
DATE

DRAINAGE STRUCTURE GENERAL DRAWINGS (5)

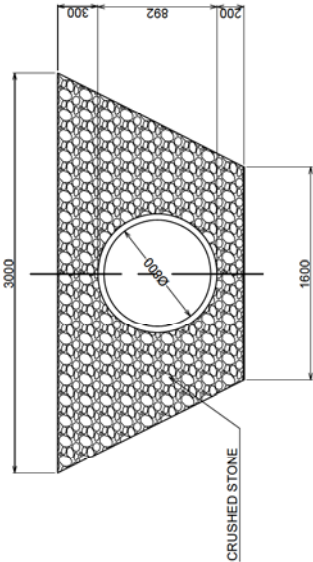
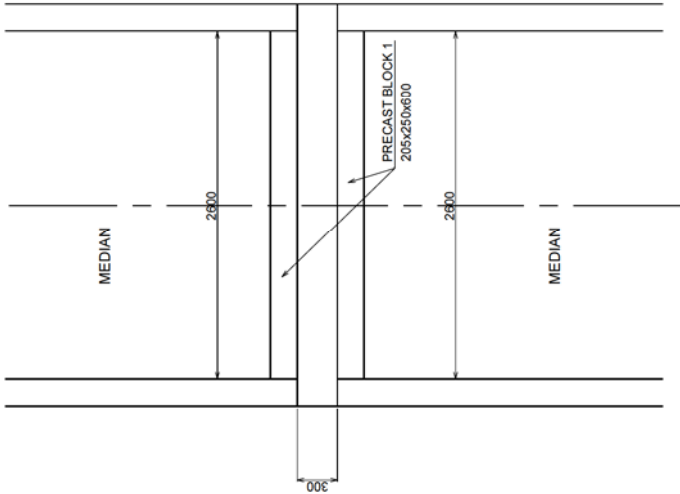
CATCH BASIN S=1:10



MEDIAN OPENINGS FOR DRAINAGE S=1:10



FIBERGLASS REINFORCED PLASTIC MORTAR PIPE D-0.80 S=1:20



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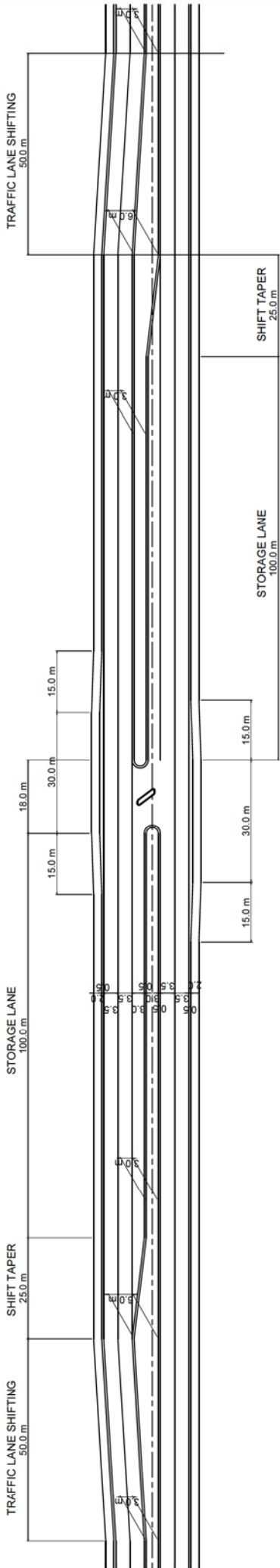
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
DRAINAGE STRUCTURE
GENERAL DRAWINGS (5)

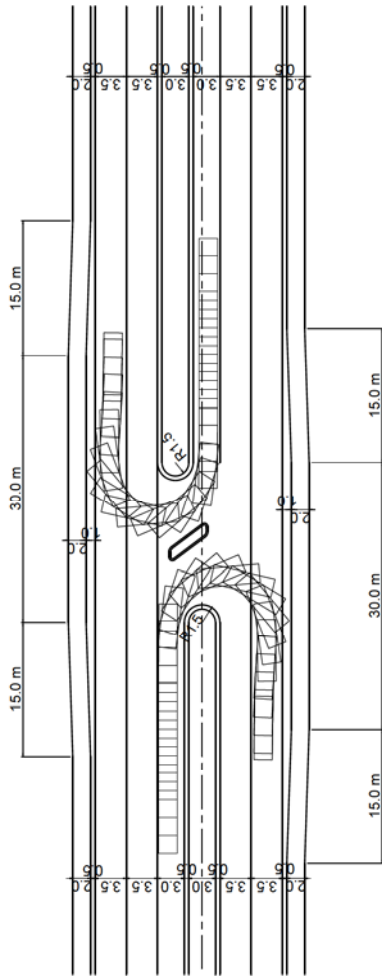
Drawing No. 058
SCALE 1:20, 1:10
DATE

U-TURN LANE GENERAL DRAWINGS

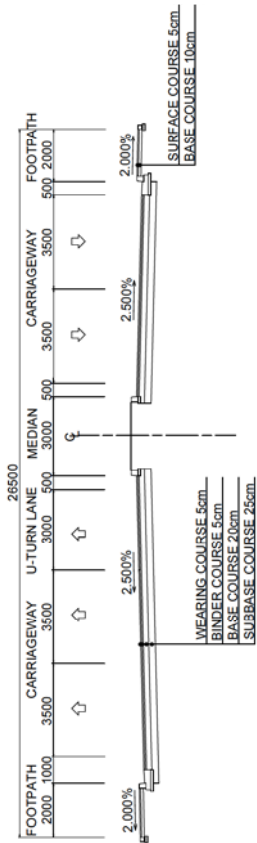
PLAN S=1:500



DETAIL S=1:300



CROSS SECTION S=1:100



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Checked by: _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
U-TURN LANE GENERAL DRAWINGS

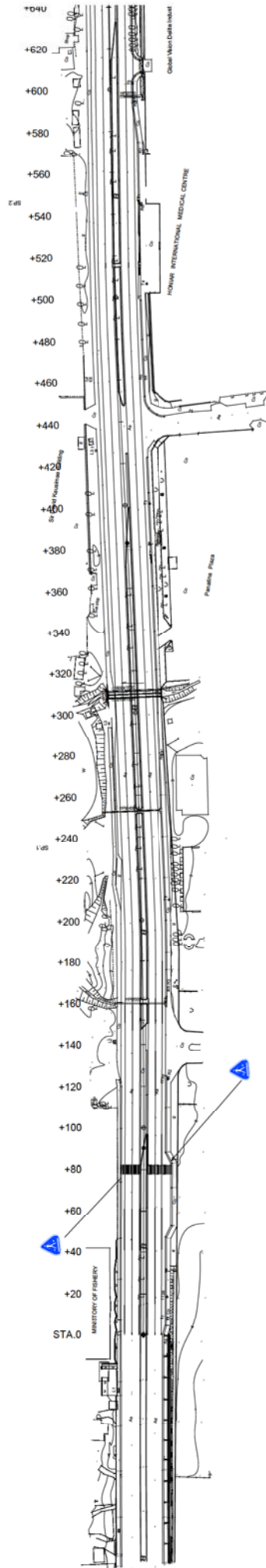
Drawing No. 059
SCALE 1:500, 1:300, 1:100
DATE

1:400, 1:200
1:200

LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (1) S=1:1,000



GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.0476.00



GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.0484.00



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Date: _____



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Designed by : _____ Date: _____
Checked by : _____ Date: _____

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

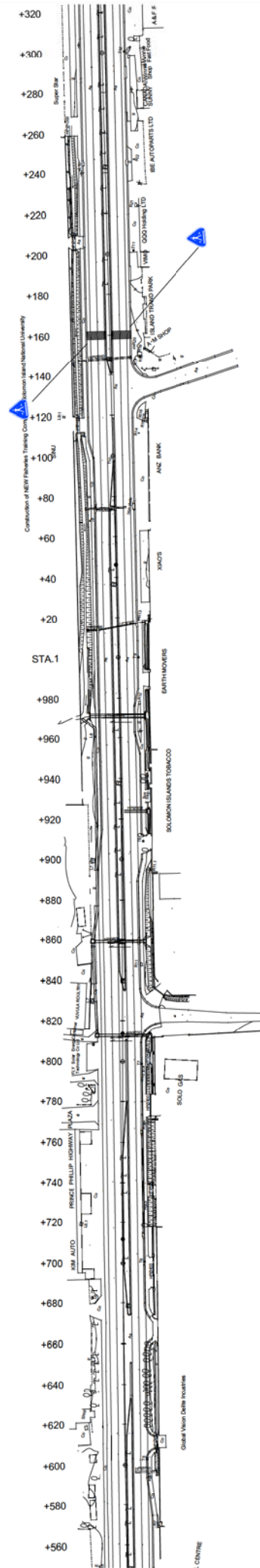
TITLE :
LAYOUT PLAN OF
TYPICAL TRAFFIC SIGNS (1)

Drawing No.	061
SCALE	1:1,000
DATE	

LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (2) S=1:1,000



GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.11-155.92



GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.11-154.00



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Approved by :
Date:



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Checked by :
Date:
Date:

PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
LAYOUT PLAN OF
TYPICAL TRAFFIC SIGNS (2)

Drawing No.	062
SCALE	1:1,000
DATE	

LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (3) S=1:1,000



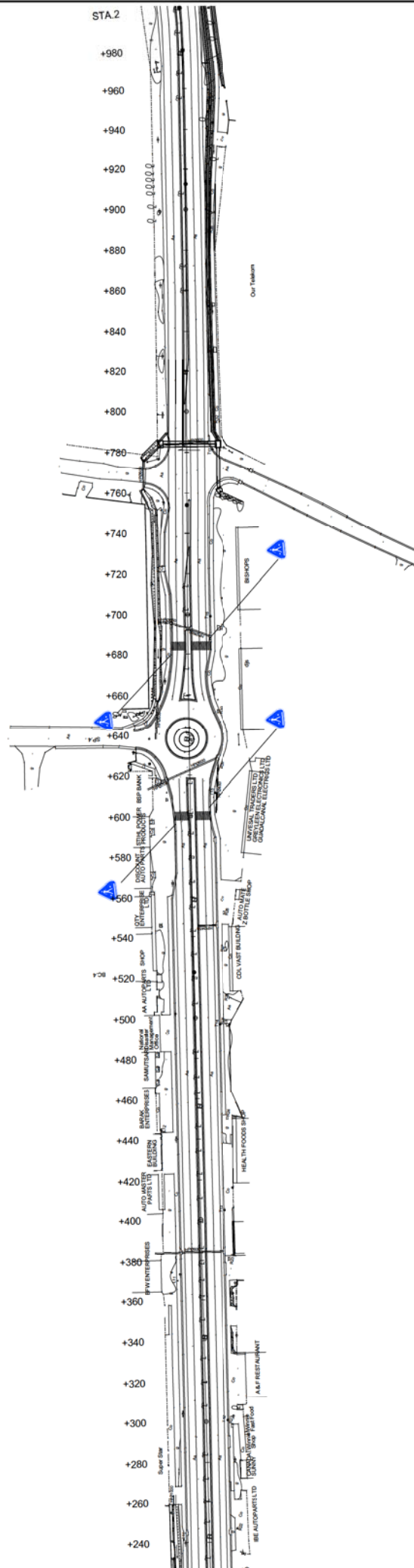
GUIDE SIGN (PEDESTRAIN CROSSING) N=1

NO. 1+€80.00

GUIDE SIGN (PEDESTRAIN CROSSING) N=1

NO. 1+596.02

CROSSING) N=1



Cylindrical Sign (Pedestrian Crossing) N=1

GUIDE SIG
NO 14804 00

GUIDE SIGN (PEDESTRAIN CROSSING) N=1

GUIDE SIG
NO. 1+688.00

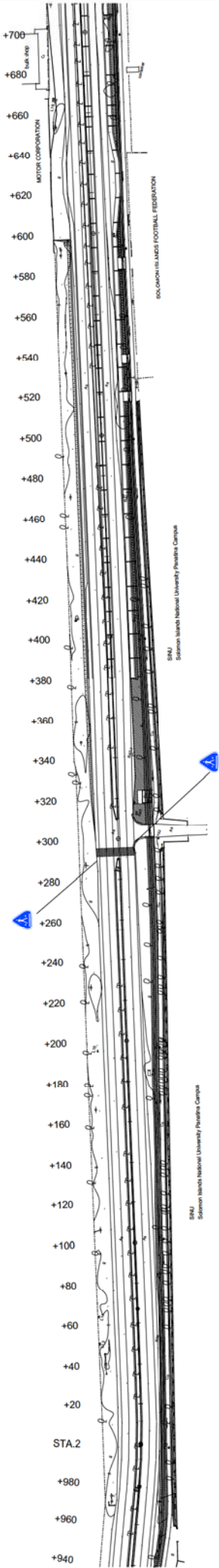
TRAIN CROSSING) N=1

 SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by : _____ Date: _____	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : _____ Date: _____ Checked by : _____ Date: _____	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE :	LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (3)	Drawing No.	063
			SCALE	1:1,000		
			DATE			

LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (4) S=1:1,000

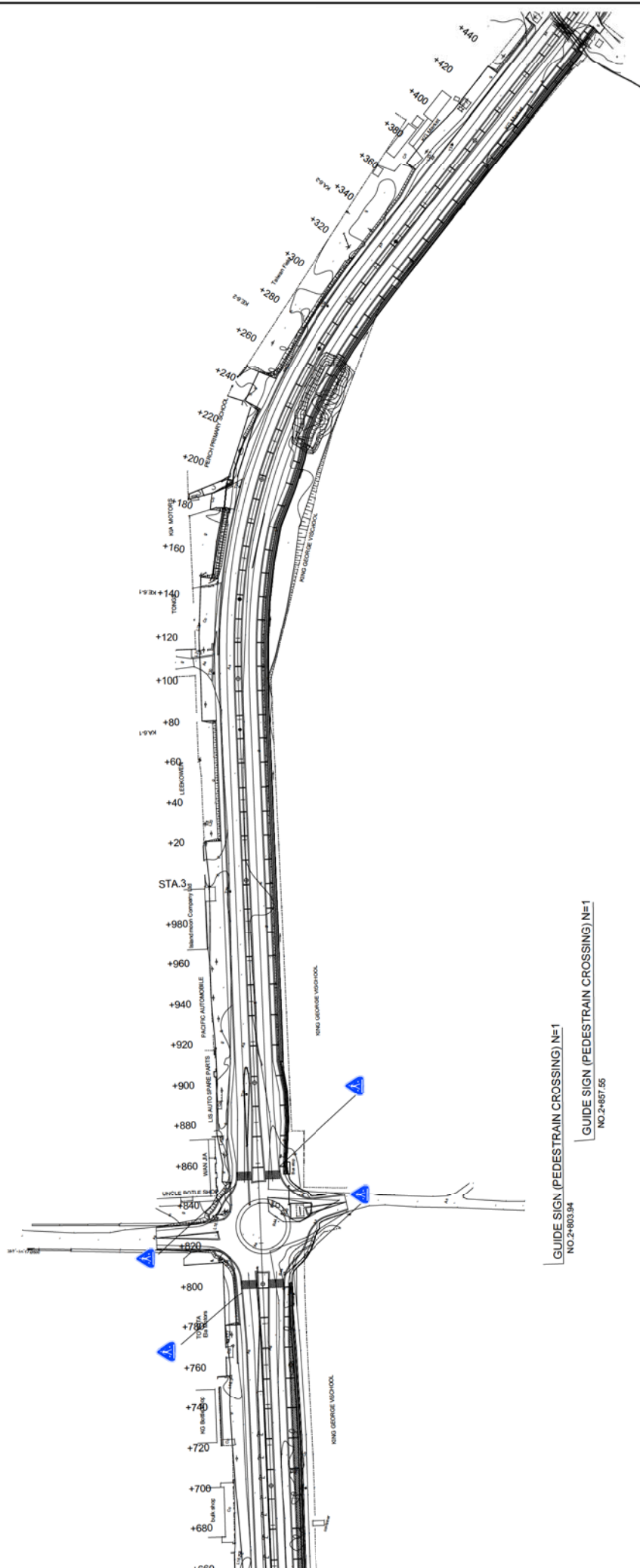


GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.2+289.33



GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.2+297.52

	SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT Approved by : Date:	 CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by : Checked by : Date: Date:	PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2	TITLE : LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (4)	Drawing No.	064
					SCALE	1:1,000
					DATE	



ATI ENGINEERING INTERNATIONAL CO., LTD.

Designed by:

Checked by: _____

PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2

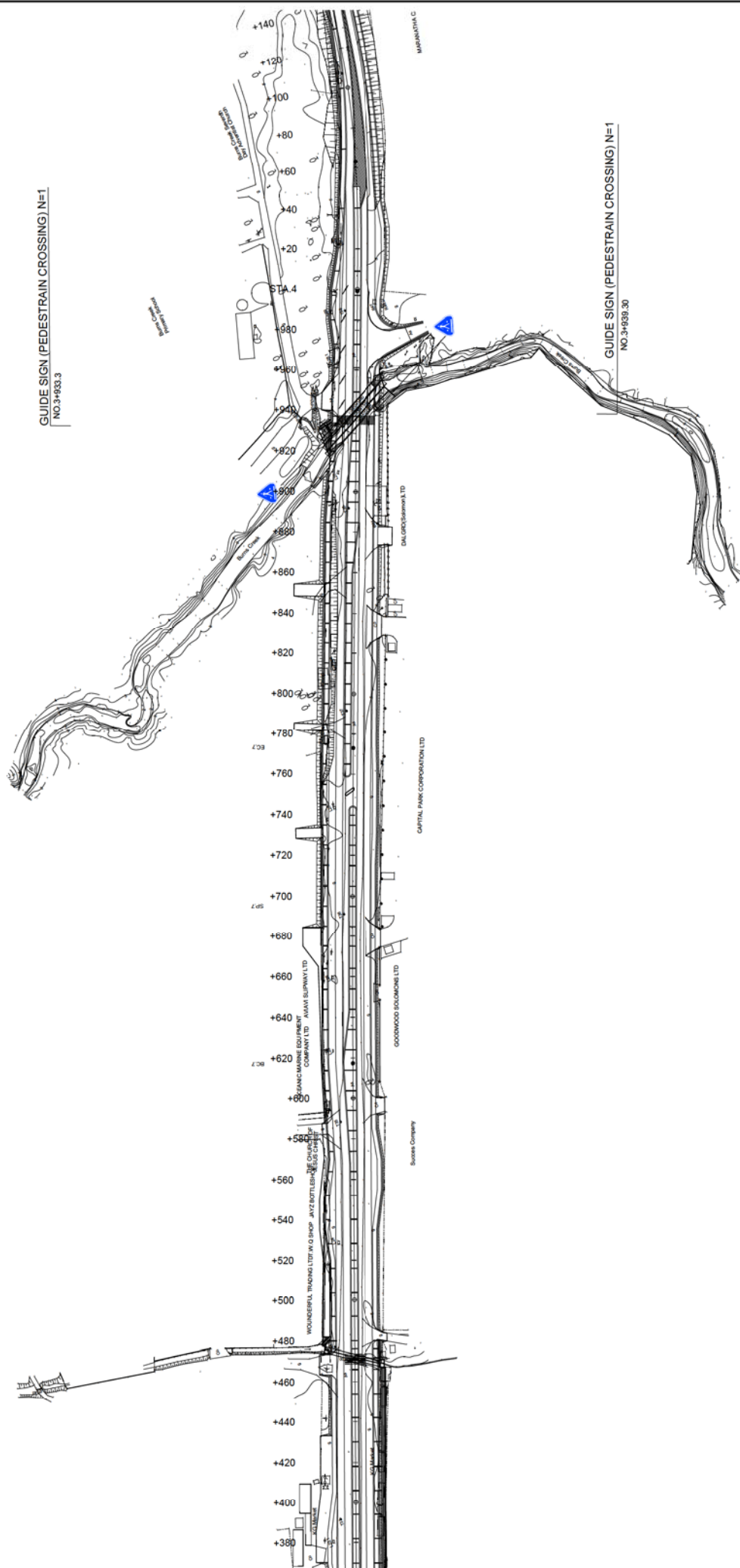
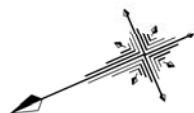
LAYOUT PLAN OF
TYPICAL TRAFFIC SIGNS (5)

Drawing No.

SCALE	1:1,000
-------	---------

DATE _____

LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (6) S=1:1,000



	SOLOMON ISLANDS GOVERNMENT MINISTRY OF INFRASTRUCTURE DEVELOPMENT		CTI ENGINEERING INTERNATIONAL CO., LTD. Designed by: _____ Date: _____ Checked by: _____ Date: _____		PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2		TITLE : LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (6)		Drawing No. 066
	Approved by: _____ Date: _____		SCALE 1:1,000		DATE		066		1:1,000



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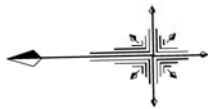
TI ENGINEERING INTERNATIONAL CO., LTD.

PREPARATORY SURVEY ON THE PROJECT FOR UPGRADING OF THE KUKUM HIGHWAY PHASE 2

LAYOUT PLAN OF
TYPICAL TRAFFIC SIGNS (7)

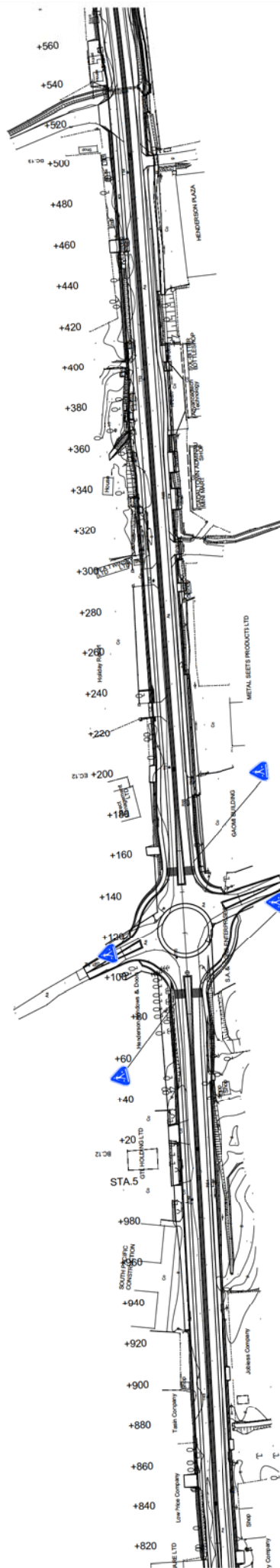
Drawing No.	067
SCALE	1:1,000
DATE	

LAYOUT PLAN OF TYPICAL TRAFFIC SIGNS (8) S=1:1,000



GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.5+146.00

GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.5+486.00



GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.5+93.98

GUIDE SIGN (PEDESTRAIN CROSSING) N=1
NO.5+153.99



SOLOMON ISLANDS GOVERNMENT
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Approved by :
Date:



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Designed by :
Checked by :
Date:
Date:

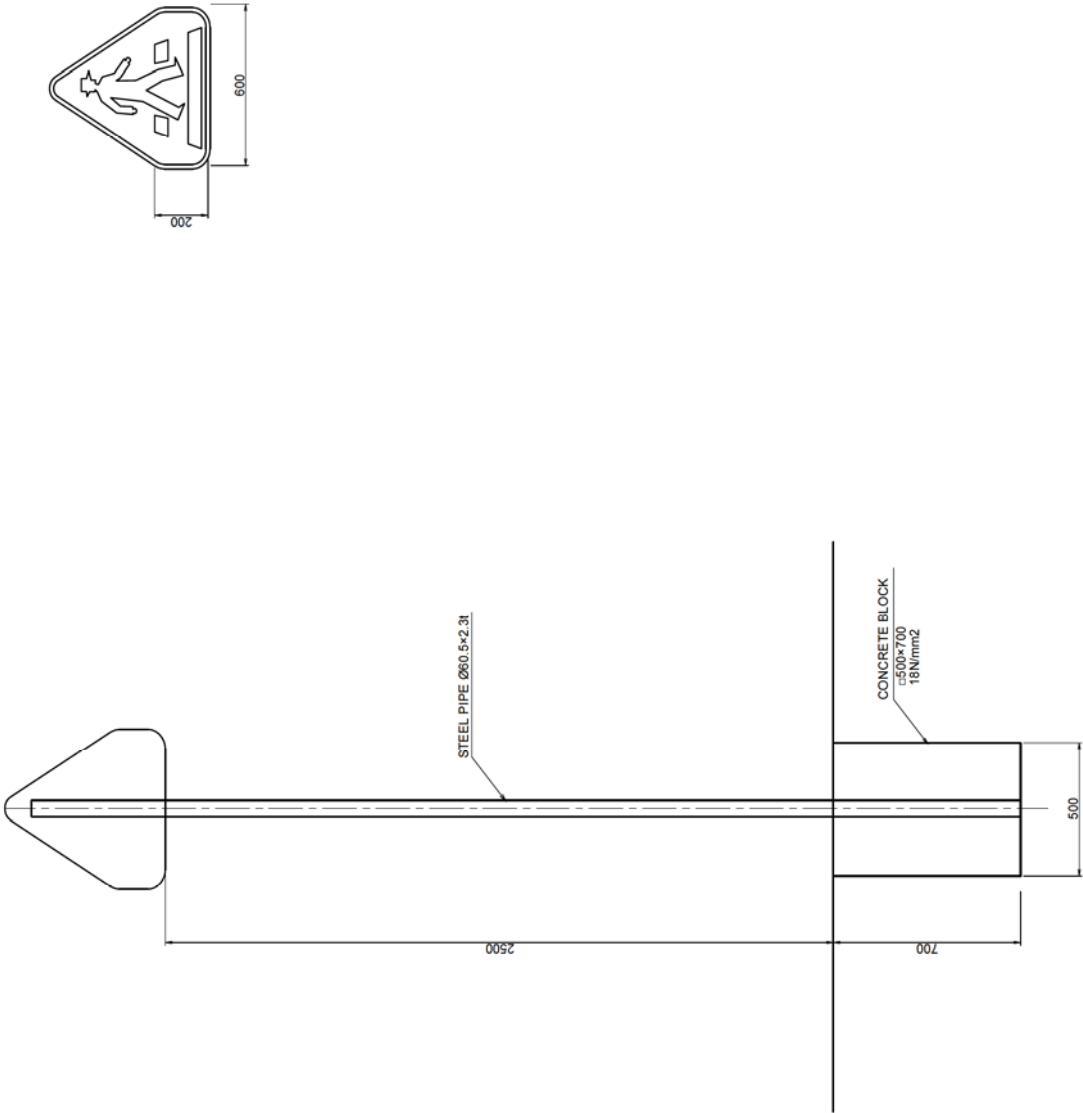
PREPARATORY SURVEY ON
THE PROJECT FOR UPGRADING OF
THE KUKUM HIGHWAY PHASE 2

TITLE :
LAYOUT PLAN OF
TYPICAL TRAFFIC SIGNS (8)

Drawing No.	068
SCALE	1:1,000
DATE	

TYPICAL TRAFFIC SIGNS GENERAL DRAWINGS S=1:10

PEDESTRIAN CROSSING



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					SCALE	1:10
					DATE	