



Appendix E
Technical Drawings of Various
Components

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Notes

1. All levels & contours are in meters
2. For details of Setting Out Points refer to Dwg.No.D103332-914-0104
3. Survey Data
The survey data provided on this drawing is based on the following trig station & bench mark
72X6 BUWENDA N=52304.037m / E=519811.82m
Elevations are based on the following Owen Falls bench mark
BM No. MDE1 el. 1136.25m

THIS DRAWING IS TO ILLUSTRATE THE CONCEPTUAL LAYOUT OF THE FACILITY AS ENVISIONED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE BASIC AND DETAILED DESIGN AND IS RESPONSIBLE FOR THE PERFORMANCE OF THE CONSTRUCTED FACILITY IN ACCORDANCE WITH THE EPC TENDER DOCUMENTS. IF, IN THE OPINION OF THE CONTRACTOR, MODIFICATIONS MUST BE MADE TO ENSURE THE PERFORMANCE OF THE CONSTRUCTED FACILITY, THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE EPC TENDER DOCUMENTS.

Issued for TENDER	By	Check	Date	18/01/05	0
Revision Details	By	Check	Date		Suffix

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
**GENERAL
PROJECT LAYOUT**

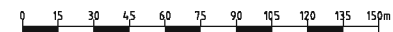
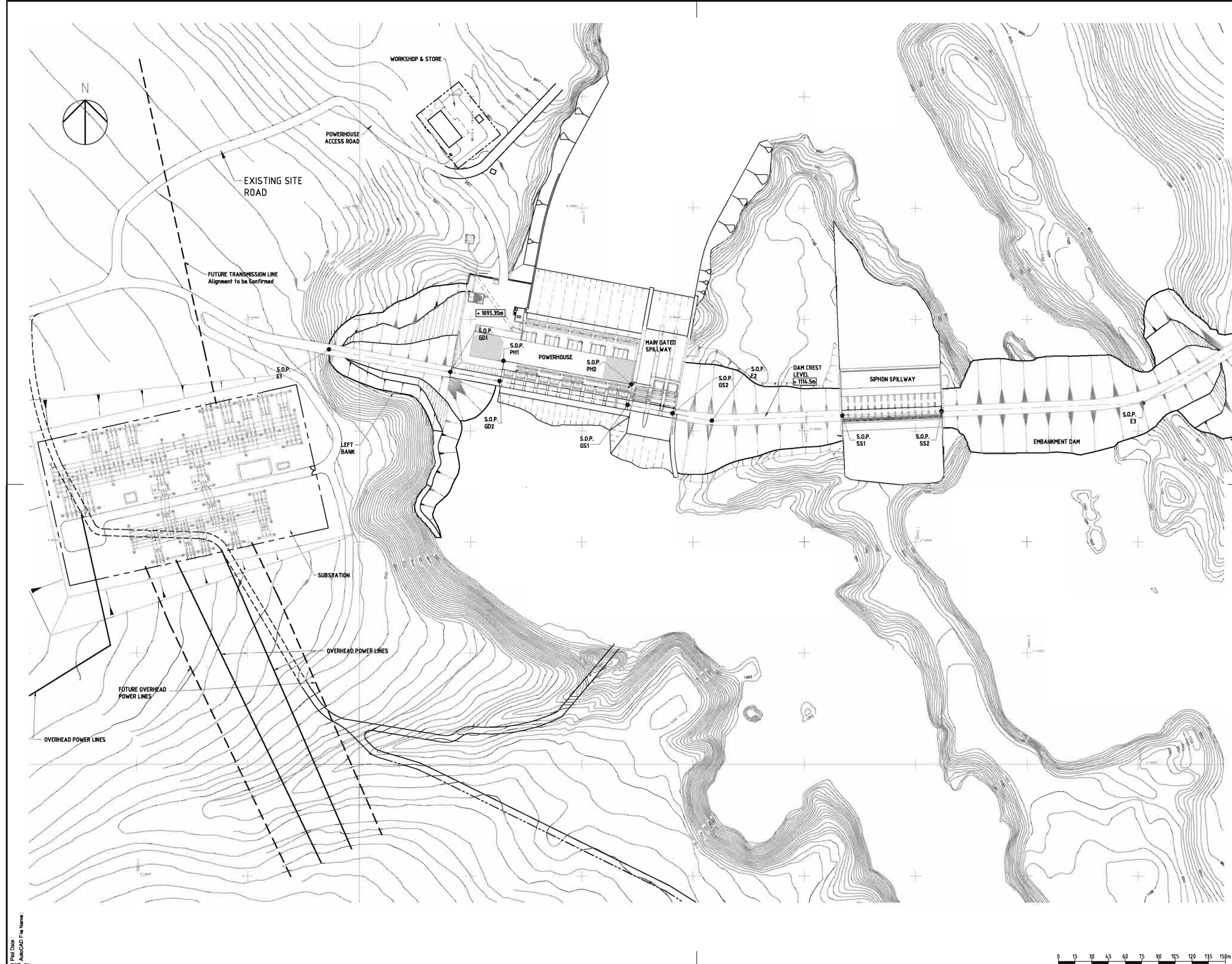
Scale at A1 1:1500	Drawn IMC	Approved AMG
Stage 1 check	Stage 2 check	Originalled
		Date

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Drawing Number
D103332-914-0101

Rev
0



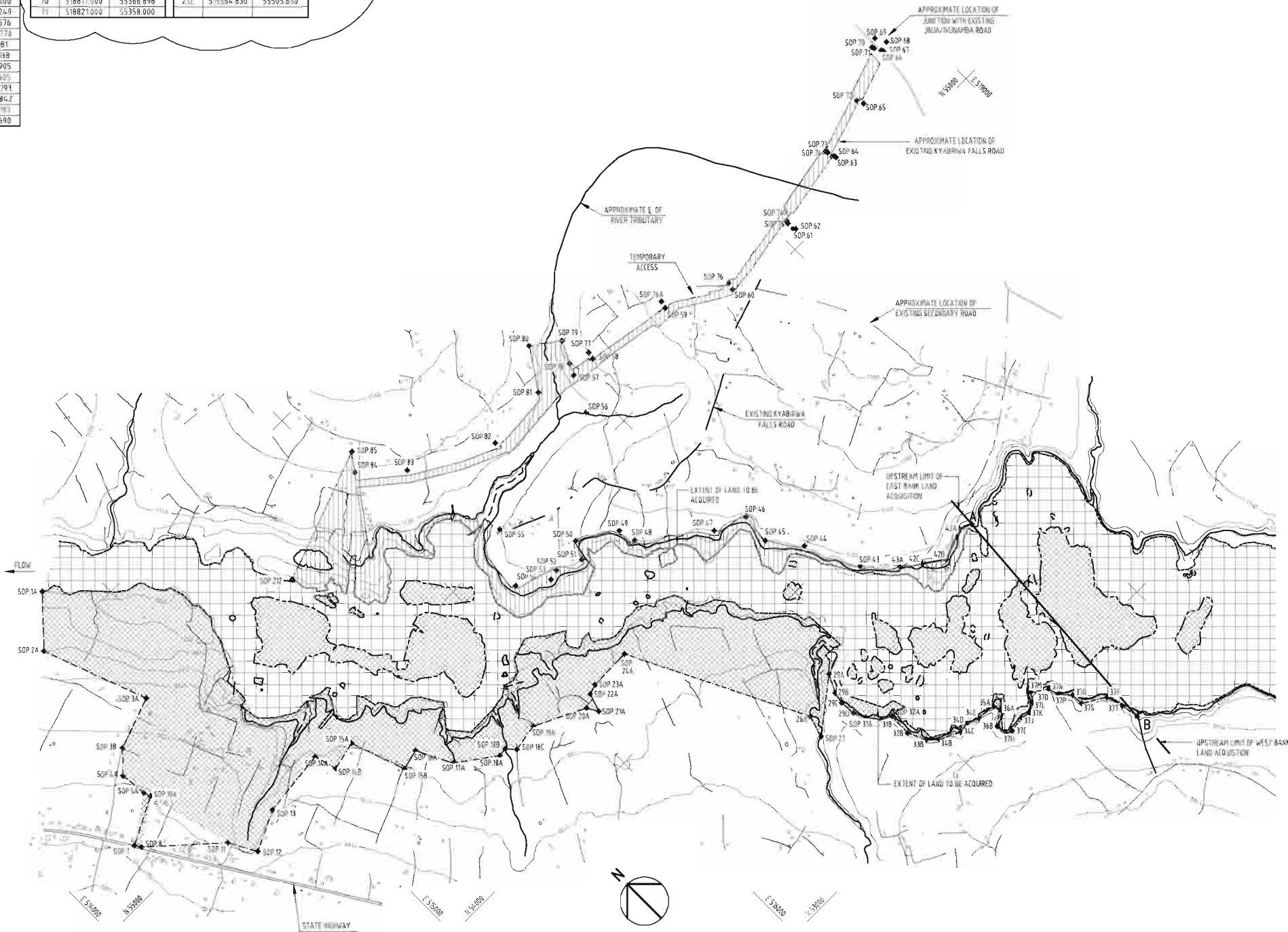
WEST BANK SOP CO-ORDINATES		
SOP	EASTING	NORTHING
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2A	516799.000	56023.000
3A	516799.000	55586.000
4A	516799.000	55510.000
5A	516799.000	55427.023
6A	516799.000	55317.000
7A	516799.000	55189.539
8A	516799.000	55064.555
9A	516799.000	54938.000
10A	516799.000	54811.109
11A	516799.000	54684.200
12A	516799.000	54557.200
13A	516799.000	54430.200
14A	516799.000	54303.200
15A	516799.000	54176.200
16A	516799.000	54049.200
17A	516799.000	53922.200
18A	516799.000	53795.200
19A	516799.000	53668.200
20A	516799.000	53541.200
21A	516799.000	53414.200
22A	516799.000	53287.200
23A	516799.000	53160.200
24A	516799.000	53033.200
25A	516799.000	52906.200
26A	516799.000	52779.200
27A	516799.000	52652.200
28A	516799.000	52525.200
29A	516799.000	52398.200
30A	516799.000	52271.200

WEST BANK SOP CO-ORDINATES		
SOP	EASTING	NORTHING
29C	516811.680	52388.334
29D	516811.680	52261.334
30A	516811.680	52134.334
30B	516811.680	52007.334
31A	516811.680	51880.334
31B	516811.680	51753.334
32A	516811.680	51626.334
32B	516811.680	51499.334
33A	516811.680	51372.334
33B	516811.680	51245.334
34A	516811.680	51118.334
34B	516811.680	50991.334
35A	516811.680	50864.334
35B	516811.680	50737.334
36A	516811.680	50610.334
36B	516811.680	50483.334
37A	516811.680	50356.334
37B	516811.680	50229.334
38A	516811.680	50102.334
38B	516811.680	49975.334
39A	516811.680	49848.334
39B	516811.680	49721.334
40A	516811.680	49594.334
40B	516811.680	49467.334
41A	516811.680	49340.334
41B	516811.680	49213.334
42A	516811.680	49086.334
42B	516811.680	48959.334
43A	516811.680	48832.334
43B	516811.680	48705.334
44A	516811.680	48578.334
44B	516811.680	48451.334
45A	516811.680	48324.334
45B	516811.680	48197.334

EAST BANK SOP CO-ORDINATES		
SOP	EASTING	NORTHING
54	516200.594	56834.043
55	516200.594	56684.043
56	516200.594	56534.043
57	516200.594	56384.043
58	516200.594	56234.043
59	516200.594	56084.043
60	516200.594	55934.043
61	516200.594	55784.043
62	516200.594	55634.043
63	516200.594	55484.043
64	516200.594	55334.043
65	516200.594	55184.043
66	516200.594	55034.043
67	516200.594	54884.043
68	516200.594	54734.043
69	516200.594	54584.043
70	516200.594	54434.043
71	516200.594	54284.043
72	516200.594	54134.043
73	516200.594	53984.043
74	516200.594	53834.043
75	516200.594	53684.043
76	516200.594	53534.043
77	516200.594	53384.043
78	516200.594	53234.043
79	516200.594	53084.043
80	516200.594	52934.043
81	516200.594	52784.043
82	516200.594	52634.043
83	516200.594	52484.043
84	516200.594	52334.043
85	516200.594	52184.043
86	516200.594	52034.043
87	516200.594	51884.043
88	516200.594	51734.043
89	516200.594	51584.043
90	516200.594	51434.043
91	516200.594	51284.043
92	516200.594	51134.043
93	516200.594	50984.043
94	516200.594	50834.043
95	516200.594	50684.043
96	516200.594	50534.043
97	516200.594	50384.043
98	516200.594	50234.043
99	516200.594	50084.043
100	516200.594	49934.043

EAST BANK SOP CO-ORDINATES		
SOP	EASTING	NORTHING
101	516200.594	49784.043
102	516200.594	49634.043
103	516200.594	49484.043
104	516200.594	49334.043
105	516200.594	49184.043
106	516200.594	49034.043
107	516200.594	48884.043
108	516200.594	48734.043
109	516200.594	48584.043
110	516200.594	48434.043
111	516200.594	48284.043
112	516200.594	48134.043
113	516200.594	47984.043
114	516200.594	47834.043
115	516200.594	47684.043
116	516200.594	47534.043
117	516200.594	47384.043
118	516200.594	47234.043
119	516200.594	47084.043
120	516200.594	46934.043
121	516200.594	46784.043
122	516200.594	46634.043
123	516200.594	46484.043
124	516200.594	46334.043
125	516200.594	46184.043
126	516200.594	46034.043
127	516200.594	45884.043
128	516200.594	45734.043
129	516200.594	45584.043
130	516200.594	45434.043
131	516200.594	45284.043
132	516200.594	45134.043
133	516200.594	44984.043
134	516200.594	44834.043
135	516200.594	44684.043
136	516200.594	44534.043
137	516200.594	44384.043
138	516200.594	44234.043
139	516200.594	44084.043
140	516200.594	43934.043

ON HOLD
Awaits confirmation by
Survey - See Key



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WRITTEN DIMENSIONS SHALL BE USED

NOTES

- The areas acquired are delineated by
setting out points (SOP's) as given in the table
and by the cadastral survey of the river banks /
the contemporaneous river level (ex BKS survey).

KEY

- Area of inundated land to cadastral
survey of river banks /
contemporaneous river level
(ex BKS survey)
- Area of land acquired.
Upstream limits of land acquisition
on river banks (Line A-B).
- Area depicted for Land Acquired
on East Bank - currently ON HOLD
awaiting confirmation by survey,
subsequent revision to SOP co-ords
may be required.
- Islands.
- Extent of land acquired
(established by SOP coordinates and
river edge).

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CONCEPTUAL LAYOUT OF THE FACILITY AS
ENVISSIONED BY THE OWNER. THE
CONTRACTOR IS RESPONSIBLE FOR
PERFORMING THE BASIC AND DETAILED
DESIGN AND IS RESPONSIBLE FOR THE
PERFORMANCE OF THE CONSTRUCTED
FACILITY IN ACCORDANCE WITH THE EPC
TENDER DOCUMENTS.
IF, IN THE OPINION OF THE
CONTRACTOR, MODIFICATIONS MUST BE
MADE TO ENSURE THE PERFORMANCE OF
THE CONSTRUCTED FACILITY, THE
CONTRACTOR SHALL FOLLOW PROCEDURES
OUTLINED IN THE EPC TENDER
DOCUMENTS.

Issued for TENDER	IMC	KMG	19/01/05	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
**GENERAL
INUNDATED LAND
AND EXTENT
OF LAND ACQUIRED
FOR CONSTRUCTION**

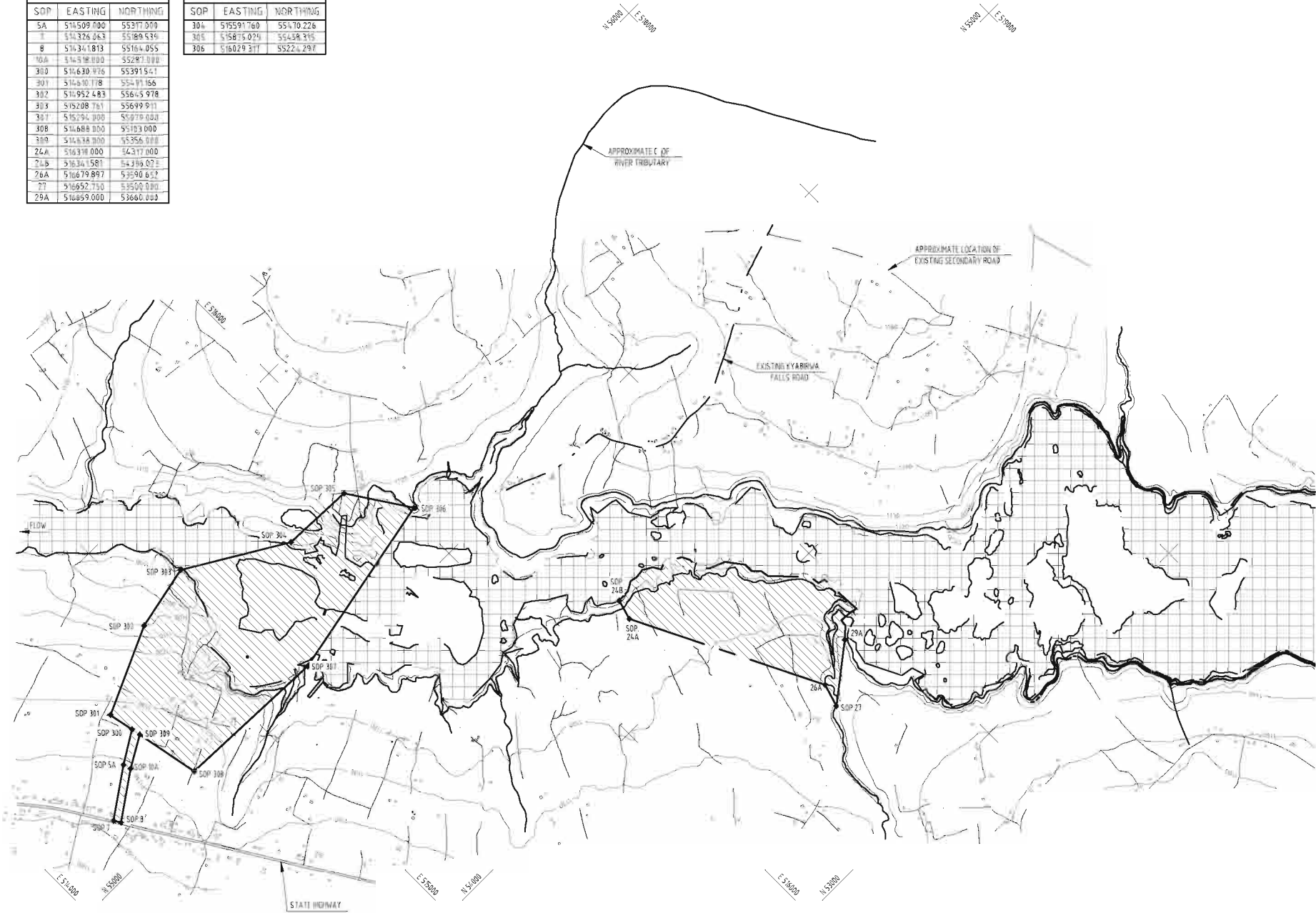
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Stage 1 check	Stage 2 check	Originated
		Date Jan/05

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Drawing Number
D103332-914-0102
Rev
0

WEST BANK SOPs		
SOP	EASTING	NORTHING
5A	514509.000	55317.000
7	514326.263	55188.539
8	514341.813	55164.055
10A	514518.000	55287.000
30D	514630.776	553915.41
301	514640.178	55491.156
302	514952.483	55645.978
303	515208.761	55699.911
307	515254.000	55079.000
308	514688.000	55103.000
309	514638.000	55356.000
24A	516310.000	54317.000
74B	516361.581	54396.073
76A	516079.897	53590.652
77	516052.750	53500.000
29A	516059.000	53660.000

EAST BANK SOPs		
SOP	EASTING	NORTHING
304	515591.760	55470.226
305	515875.024	55438.316
306	516029.317	55224.297



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NOTES

- The areas acquired are delineated by setting out points (SOPs) as given in the table and by the cadastral survey of the river banks / the contemporaneous river level (ex BKS survey).

KEY

Area of inundated land to cadastral survey of river banks / contemporaneous river level (ex BKS survey)

Area of Permanent Land Acquisition

Islands.

Extent of land acquired (established by SOP coordinates and river edge).

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Issued for TENDER	IMC	KPS	19/01/05	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

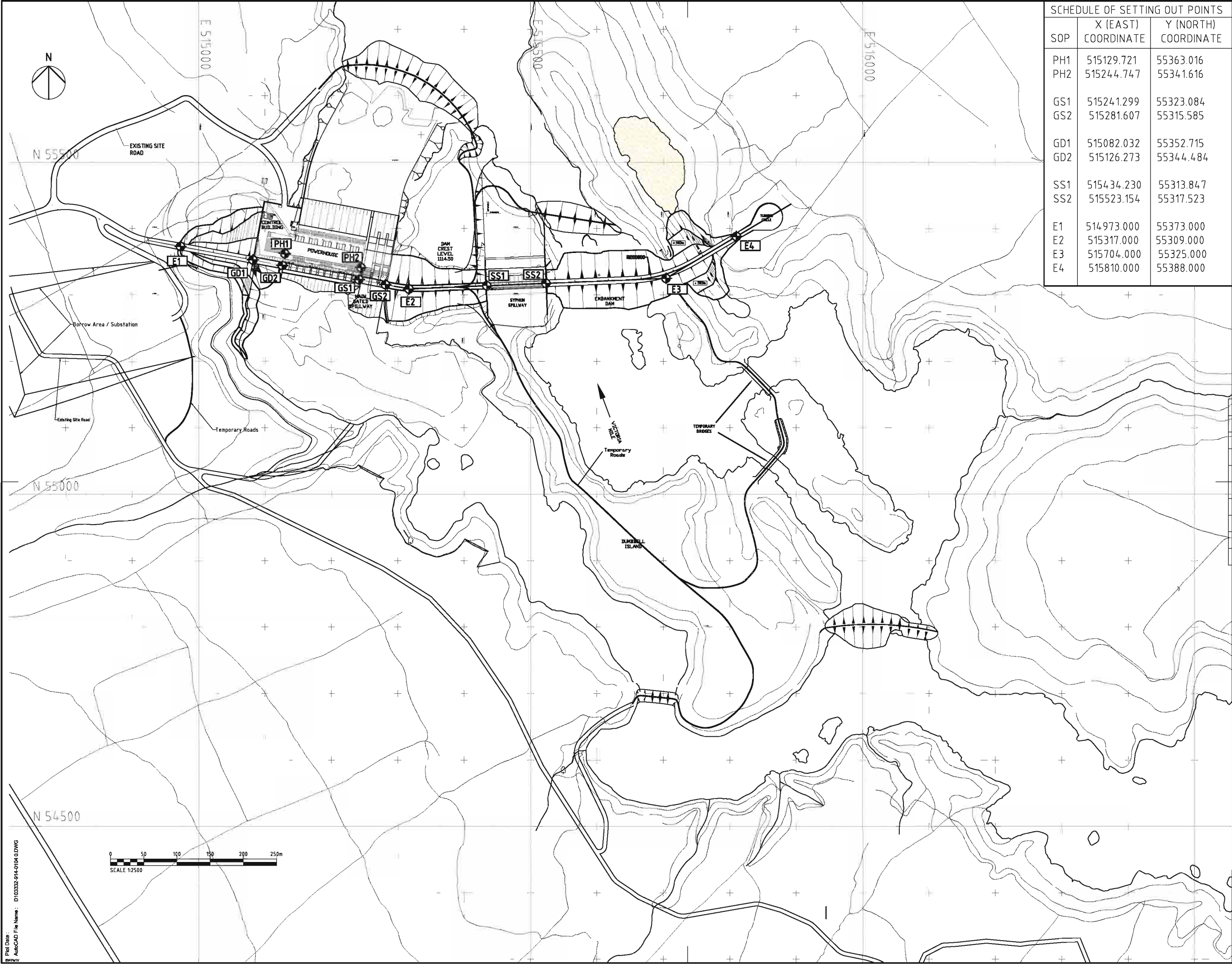
Drawing Title
**GENERAL
INUNDATED LAND
AND EXTENT
OF PERMANENT
LAND ACQUISITION**

Scale at A1 1:10,000	Drawn IMC	Approved AMG
Stage 1 check	Stage 2 check	Originals
		Date Jan'05

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Drawing Number
D103332-914-0103

Rev
0



SCHEDULE OF SETTING OUT POINTS		
SOP	X (EAST) COORDINATE	Y (NORTH) COORDINATE
PH1	515129.721	55363.016
PH2	515244.747	55341.616
GS1	515241.299	55323.084
GS2	515281.607	55315.585
GD1	515082.032	55352.715
GD2	515126.273	55344.484
SS1	515434.230	55313.847
SS2	515523.154	55317.523
E1	514973.000	55373.000
E2	515317.000	55309.000
E3	515704.000	55325.000
E4	515810.000	55388.000

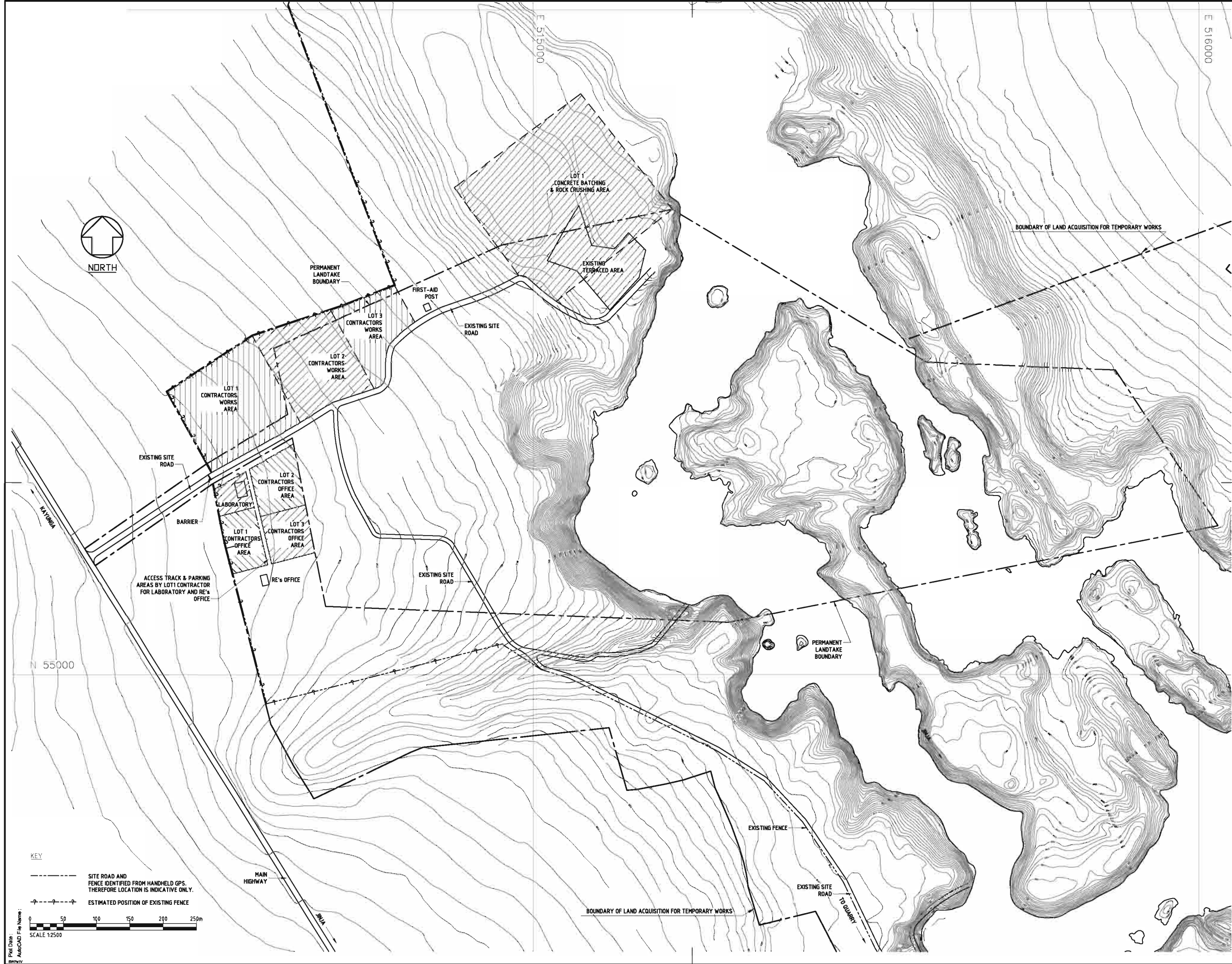
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LEGEND:
PH = POWERHOUSE
GS = GATED SPILLWAY
SS = SYPHON SPILLWAY
E = EMBANKMENT
GD = GRAVITY DAM

ALL COORDINATES ARE IN METRES

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Issued for TENDER	PL	PS	BS/VB	0
Revision Details	By	Date	Suffix	
Check				
Drawing Status				
TENDER DRAWING				
Job Title				
BUJAGALI HYDROPOWER PROJECT				
Drawing Title				
GENERAL				
SETTING OUT OF PROJECT WORKS				
Scale at A1 1:2500				
Drawn BCJ		Approved AMG		
Stage 1 check	Stage 2 check	Original	Date	Jan'04
Scott Wilson Piésold Kantack House Station Road, Ashford Kent, TN23 1PP Telephone (01233) 666200 Fax (01233) 658299 www.scottwilson.com				
Drawing Number				Rev
D103332-914-0104				0



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Notes

1. All levels & contours are in meters
2. For details of Setting Out Points refer to Dwg.No:D103332-914-0104
3. Location of Existing Site Roads Identified by hand held GPS the location therefore is indicative only.

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Issue for TENDER	KCP	5	1/1/05	0
Revision Details	By	Date	Suffix	
	Check			

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
**GENERAL
CONTRACTORS
WORKS AREAS**

Scale at A1 1:2500	Drawn KCP	Approved AMG
Stage 1 check	Stage 2 check	Original
		Date Jan'05

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Drawing Number
D103332-914-0105

Rev
0



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Notes

1. All levels & contours are in meters
2. For details of Setting Out Points refer to Dwg.No D103332-914-0104
3. Survey Data
The survey data provided on this drawing is based on the following trig station & bench mark
72X6 BUWENDA N=52304.037m / E=519811.82m
Elevations are based on the following Owen Falls bench mark
BM No: MDE1 el. 1136.25m
4. The Diversion Works shown on this drawing are Indicative. The Contractor shall make his own arrangements for the River Diversion subject to the Engineer's approval on site, and compliance with the specification.

Key

 Areas which may have to be removed in the works - as determined from Hydraulic Model Studies.

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Issued for TENDER	BCJ	TP	18/01/05	Q
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

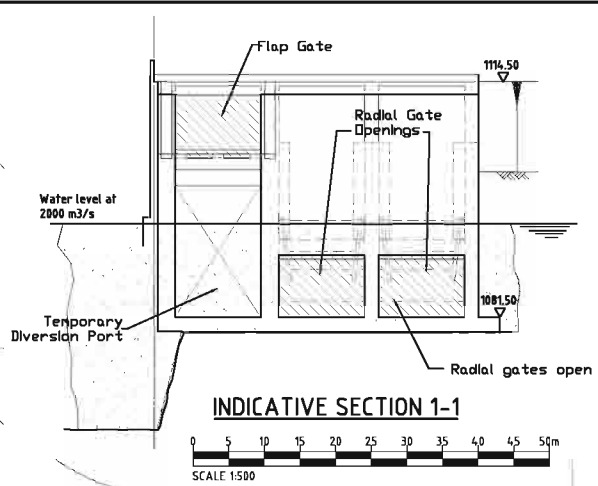
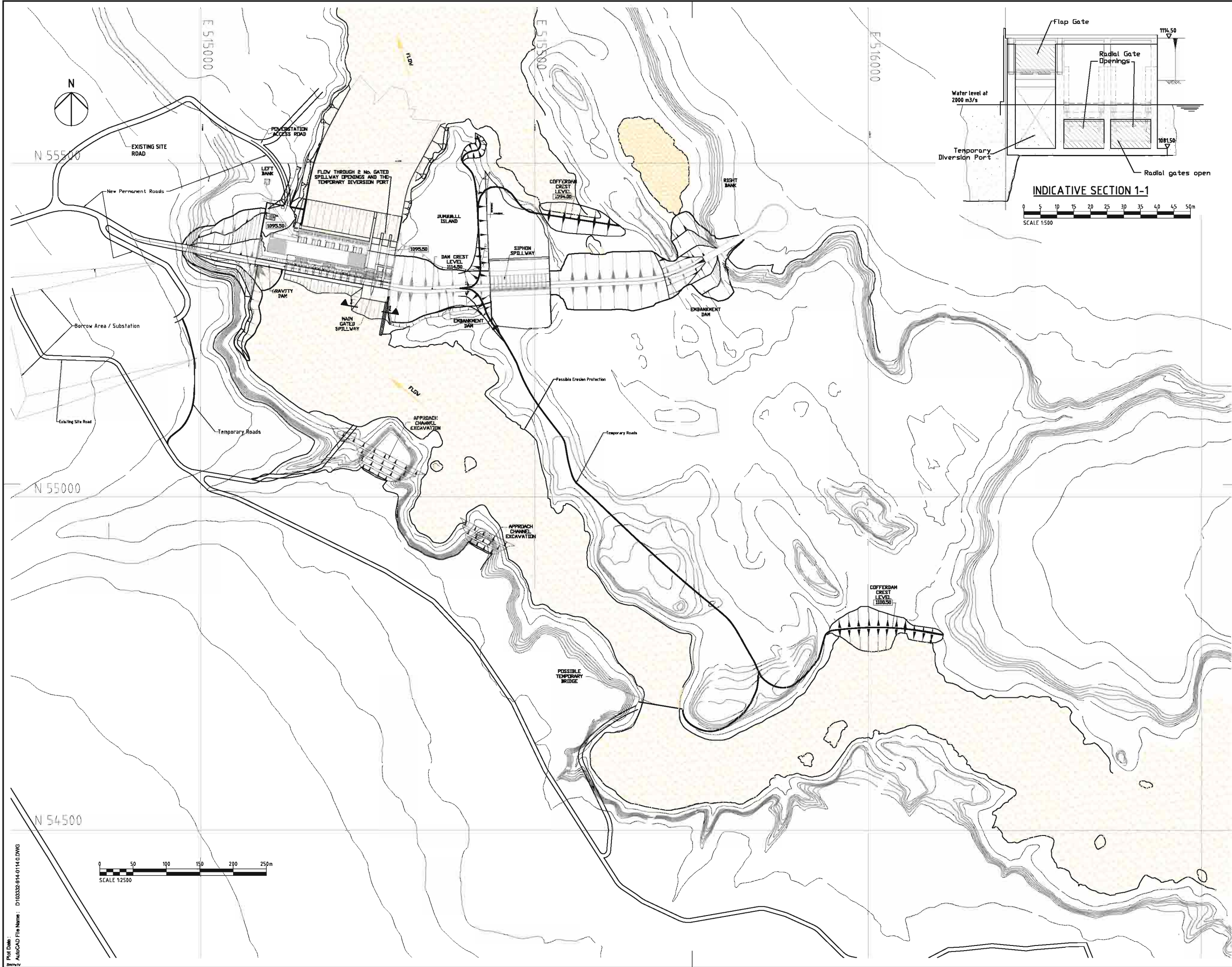
Drawing Title
**RIVER DIVERSION
STAGE 1
LAYOUT OF ROADS
& COFFERDAMS**

Scale at A1 1:2500	Drawn BCJ	Approved AMG
Stage 1 check	Stage 2 check	Original
		Date Jan'05

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Drawing Number
D103332-914-0113
Rev
0



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Notes

- All levels & contours are in meters
- For details of Selling Out Points refer to Dwg.No:D103332-914-0104
- Survey Data
The survey data provided on this drawing is based on the following trig station & bench mark
72X6 BUWENDA N=52304.031m / E=519811.82m
Elevations are based on the following Owen Falls bench mark
BM No: MDE1 el. 1136.25m
- The Diversion Works shown on this drawing are indicative. The Contractor should make his own arrangements for the River Diversion subject to the Engineers approval on site, and compliance with the specification.

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Revision Details		BCJ	TP	19/01/05	0
By	Date	Check	Date	Suffix	

Drawing Status
TENDER DRAWING

Job Title
BUJAGALI HYDROPOWER PROJECT

Drawing Title
RIVER DIVERSION STAGE 2 LAYOUT OF ROADS & COFFERDAMS

Scale at A1
1:2500

Drawn	Approved
BCJ	AMG
Stage 1 check	Stage 2 check
Original	Date Jan'05

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Drawing Number
D103332-914-0114

Rev
0

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Notes

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- All dimensions are in millimeters
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- Survey Data
The survey data provided on this drawing is based on the following trig station & bench mark
72X6 BUWENDA N=52304.037m / E=519811.82m
Elevations are based on the following Owen Falls bench mark
BM No: MDE1 el. 1136.25m
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Issued for TENDER	BCJ	TP	18/01/05	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

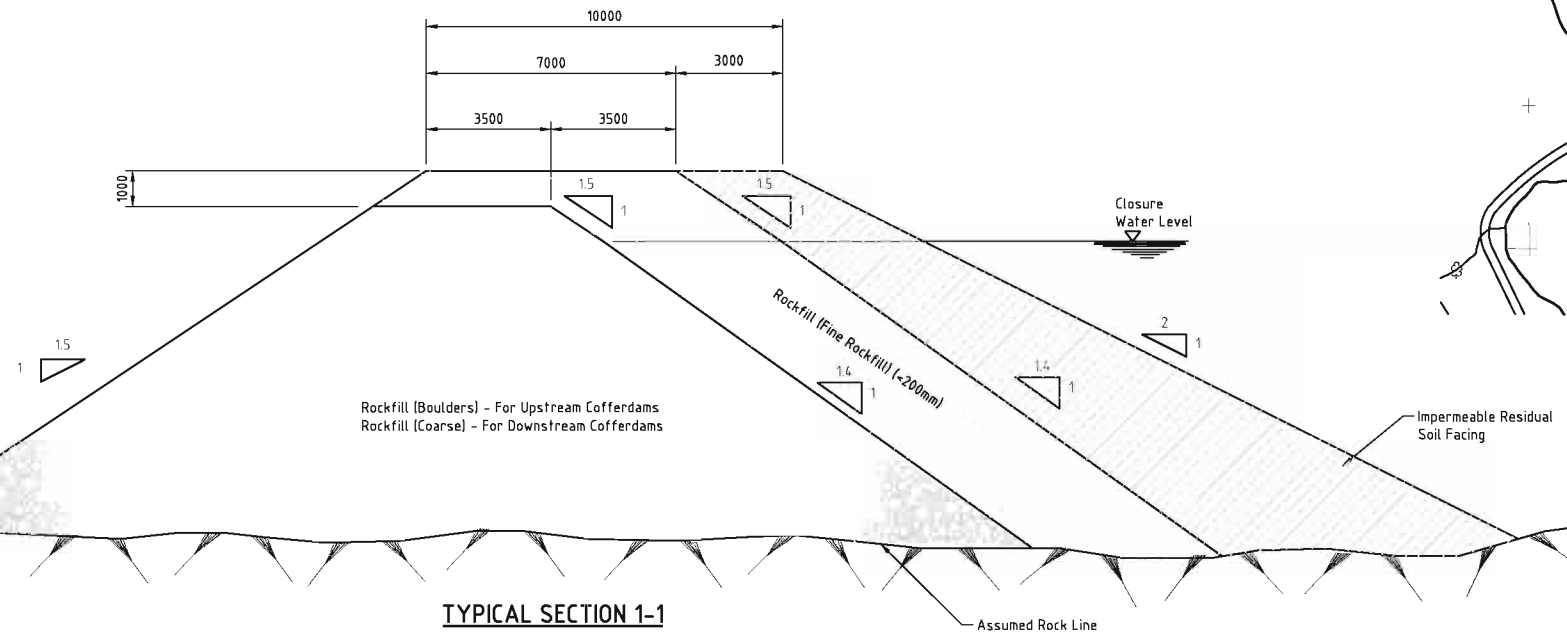
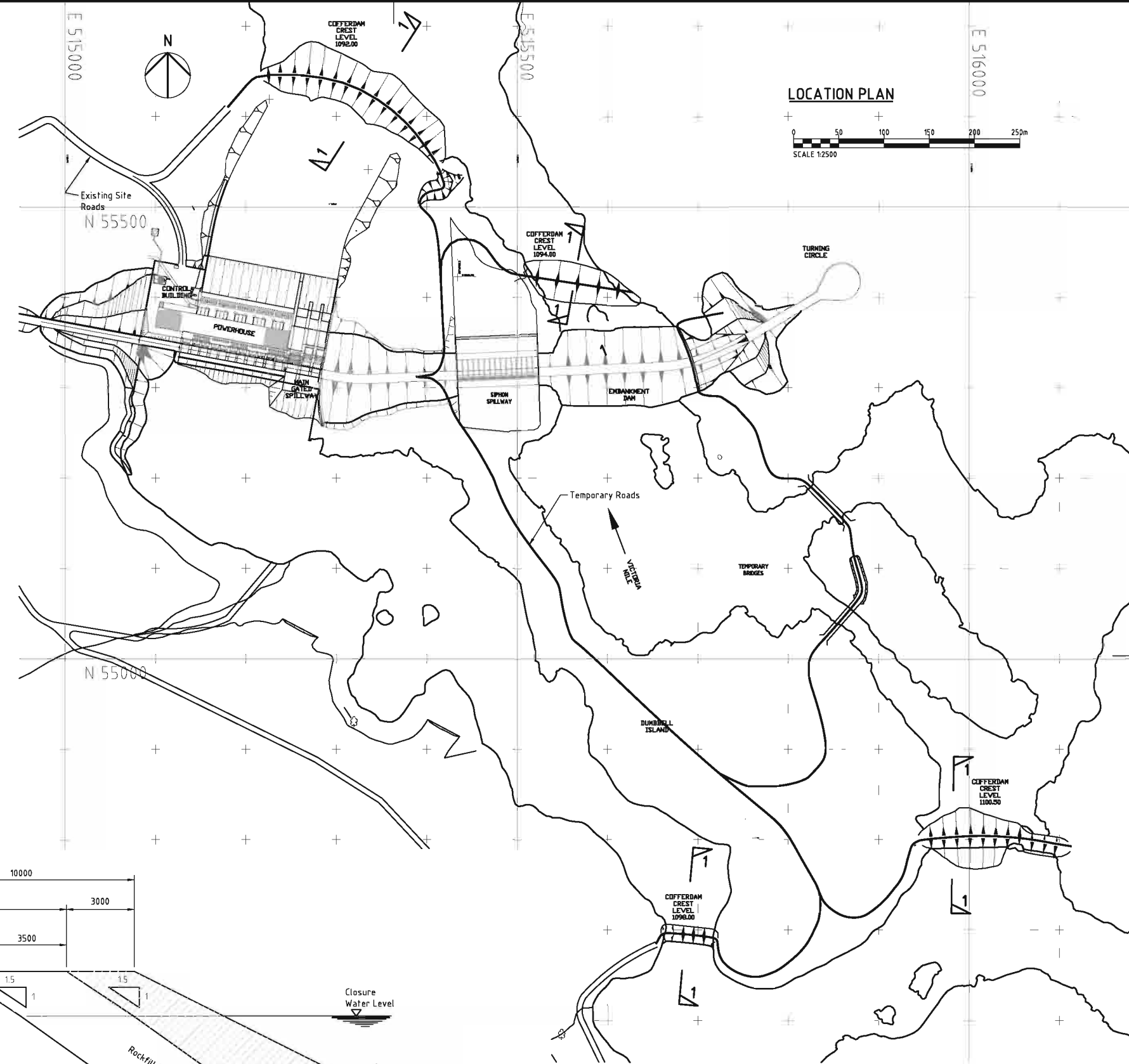
Job Title
BUJAGALI HYDROPOWER PROJECT

Drawing Title
**RIVER DIVERSION
SECTIONS THROUGH COFFERDAMS**

Scale at A1 1:100 & 1:2500	Drawn BCJ	Approved AMG
Stage 1 check	Stage 2 check	Date Jan'05

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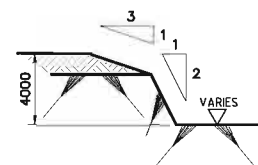
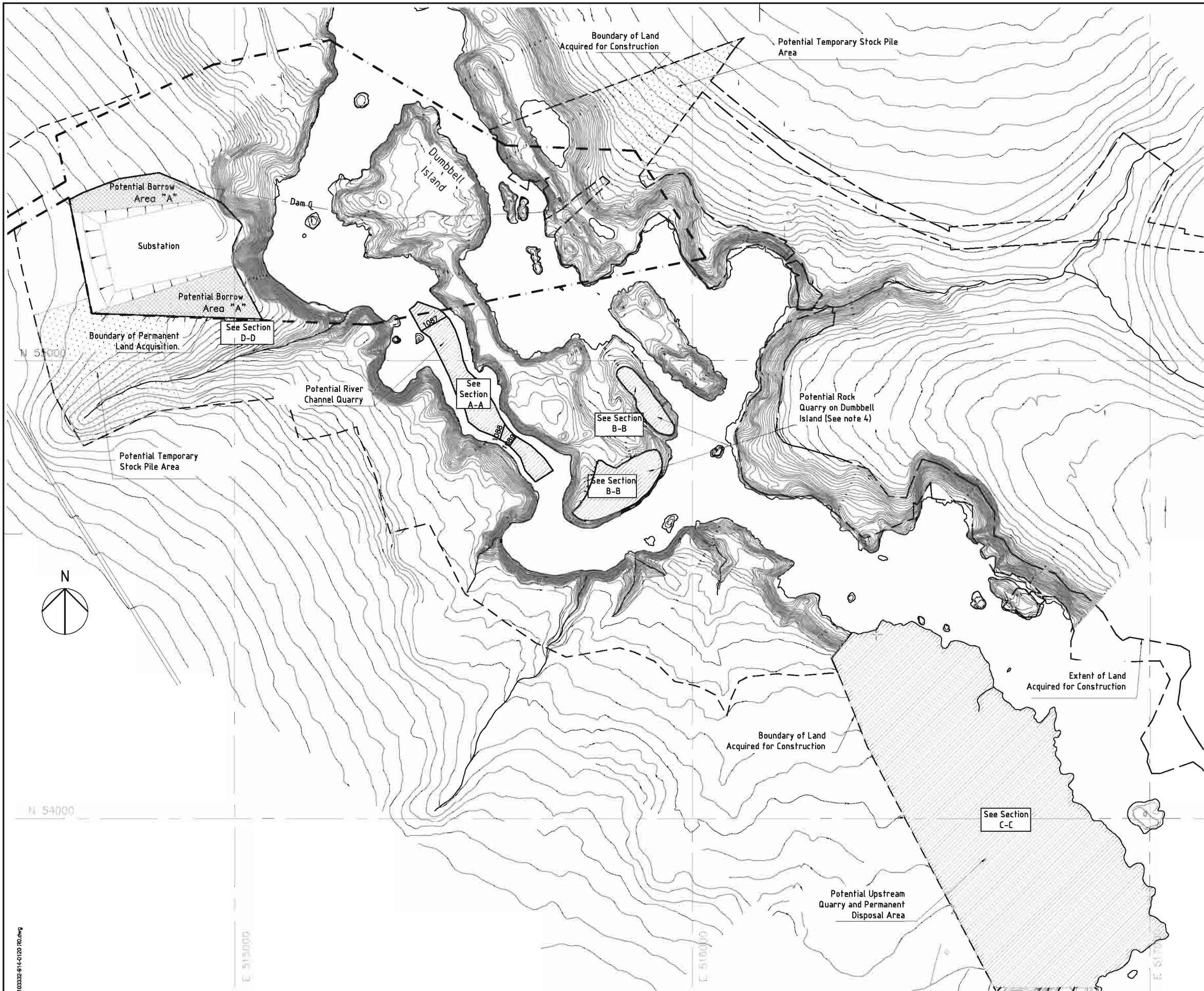
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Rev
0



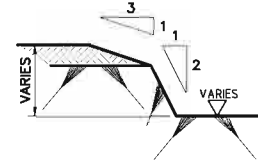
**TYPICAL SECTION 1-1
THROUGH COFFERDAMS**



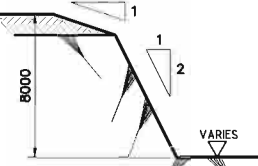
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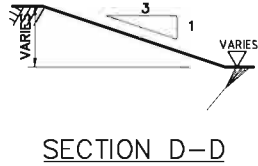
SECTION A-A
(RIVER CHANNEL QUARRY)



SECTION B-B
(DUMBELL ISLAND QUARRIES)



SECTION C-C
(UPSTREAM QUARRY)



SECTION D-D
(BORROW AREA 'A')

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Notes

- For Extent of Land Acquisition refer to Drawing No. D103332-914-0102 & 0103.
- Contours and Levels shown for Quarries are Indicative values only.
- For Permanent Excavation details for Substation in areas designated Potential Borrow Area 'A' see Drawing No. D103332-914-0200.
- Quarry on Dumbbell Island is subject to need to Preserve Effective Continuity to Cofferdam during Stage 1 Diversion and Temporary Road access during Stage 1 and Stage 2 Diversion
- Restoration of Borrow Areas & Quarry Areas above minimum reservoir level subject to requirements of the Environmental Impact Assessment and to the satisfaction of the Engineer.

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Issued for Tender	BDS	PG	10/11/05	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

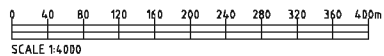
Job Title
**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
**EMBANKMENT
LOCATION OF POTENTIAL
BORROW, QUARRY AND
STOCKPILE AREAS**

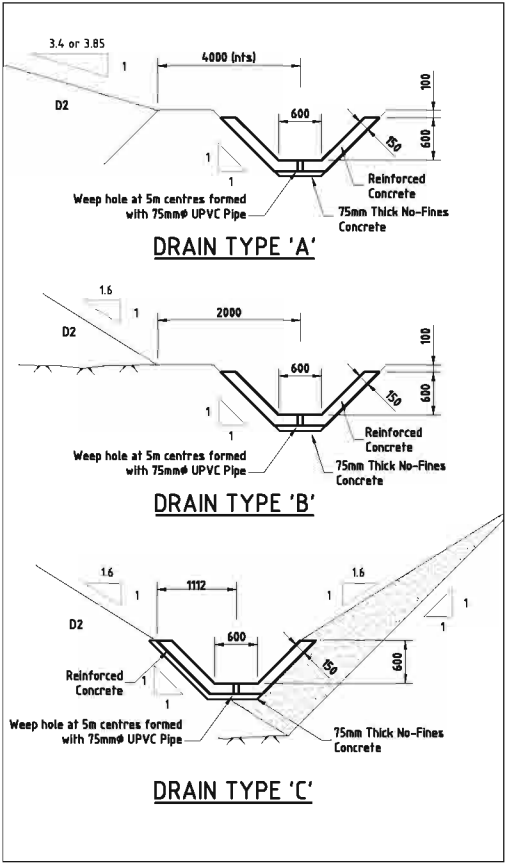
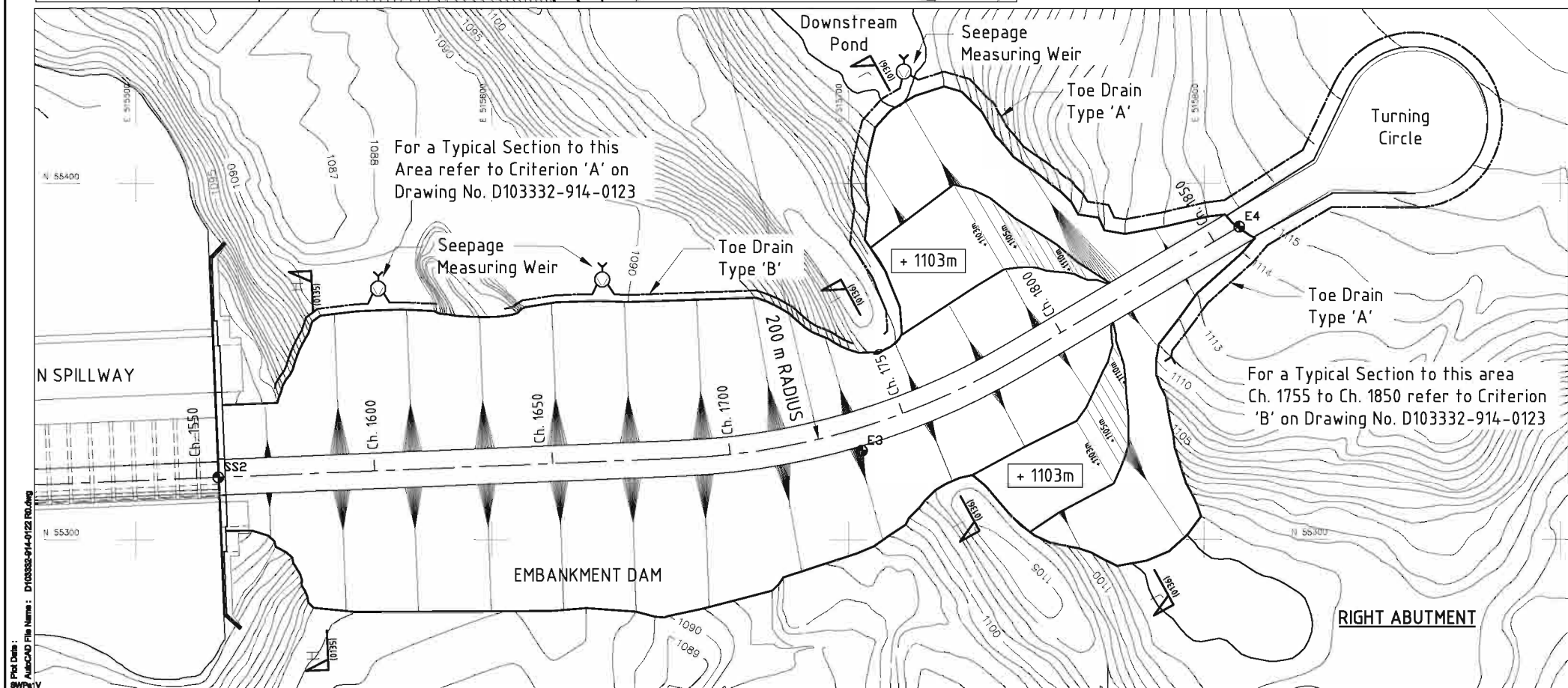
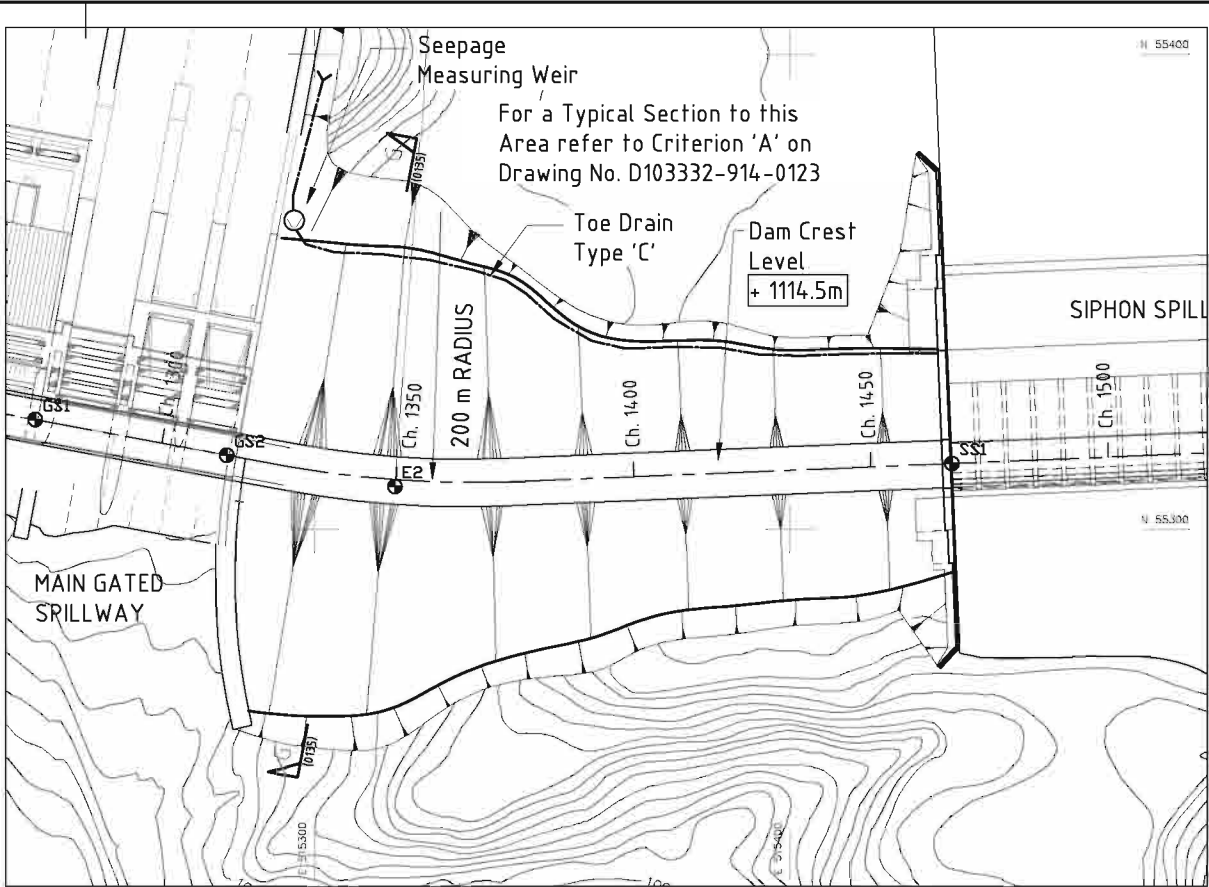
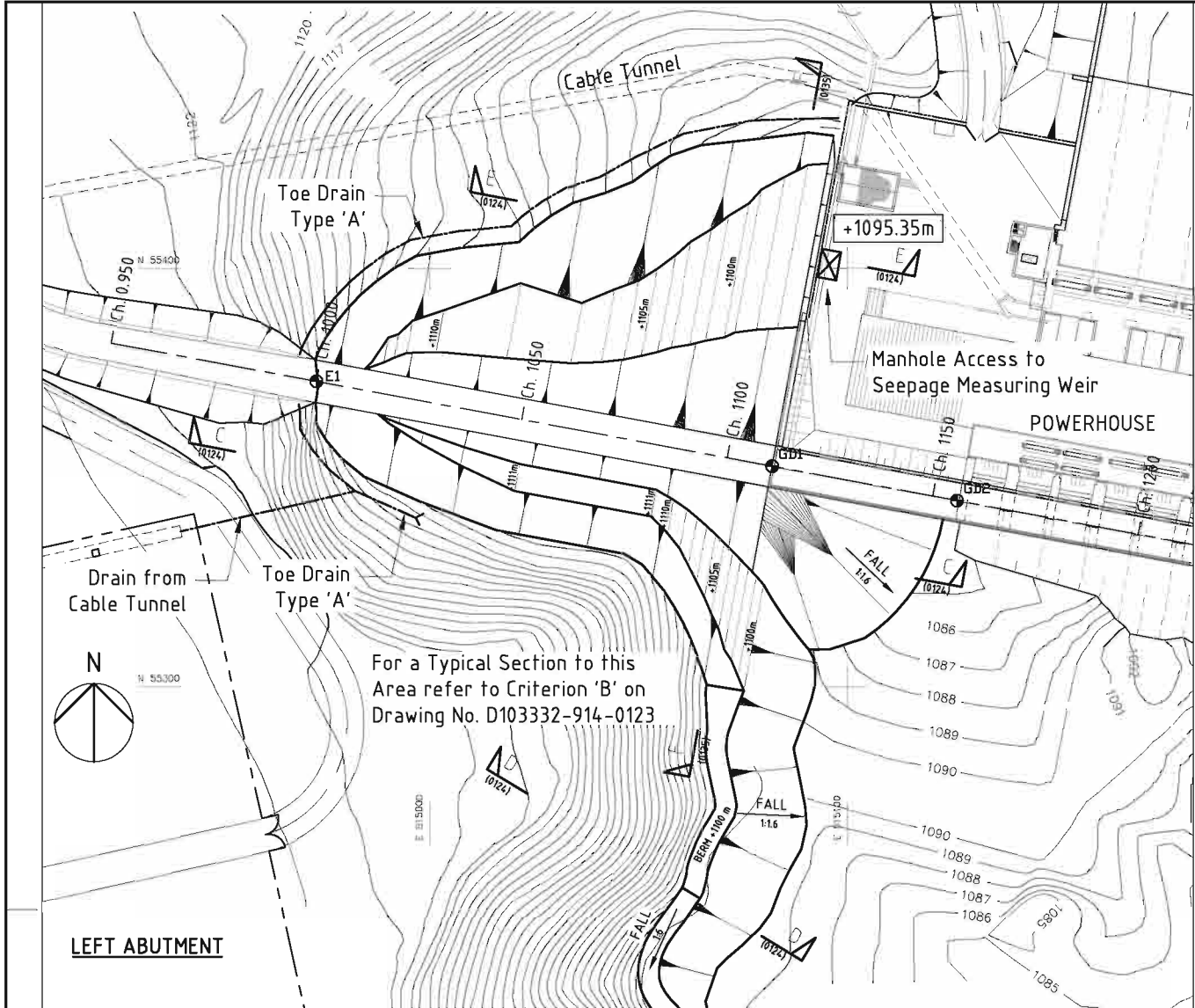
Scale at A1 AS SHOWN	Drawn IMC	Approved AMG
Stage 1 check	Stage 2 check	Original
		Date Jan'05

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Drawing Number
D103332-914-0120
Rev
0



Extent of Land Acquired for Construction
Extent of Permanent Land Acquisition



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Notes

1. All levels and contours are in metres
2. For details of setting out points refer to Drawing No. D103332-914-0104.
3. This Drawing to be read in conjunction with the following Drawing Nos:
D103332-914-0123. Dam Sections Sht 1 of 4
D103332-914-0124. Dam Sections Sht 2 of 4
D103332-914-0125. Dam Foundations and Grout Plan
D103332-914-0135. Dam Section Sht 3 of 4
D103332-914-0136. Dam Sections Sht 4 of 4
D103332-914-0200. Layout of Road/Fences & Details

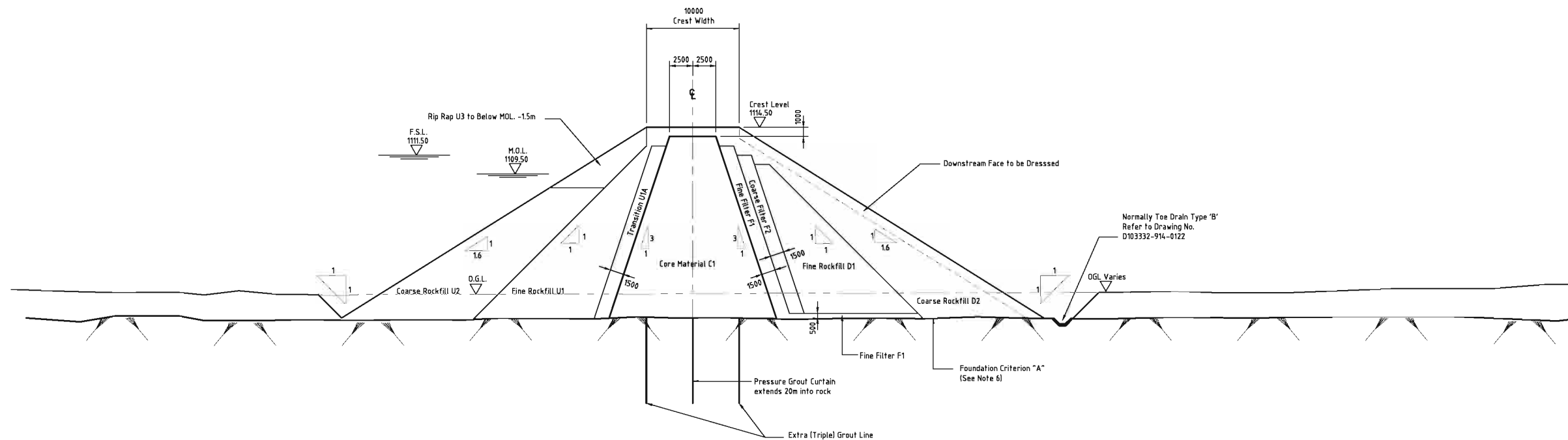
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Issued for Tender	BDS	PS	5/9/15	0
Revision Details	By	Check	Date	Diff
Drawing Status				
TENDER DRAWING				
Job Title				
BUJAGALI HYDROPOWER PROJECT				
Drawing Title				
EMBANKMENT PLAN OF DAM				
Scale at A1 AS SHOWN				
Drawn	BDS	Approved	AMG	
Stage 1 check		Stage 2 check	Original	Date Jan'05
Scott Wilson				
Kestack House Station Road, Ashford Kent, TN23 1PP Telephone (01233) 666200 Fax (01233) 666209 www.scottwilson.com				
Drawing Number				
D103332-914-0122				
Rev				
0				

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Notes

1. All dimensions are in millimetres
2. All levels are in metres to Survey of Uganda Datum
3. The Embankment Crest level shown on this drawing is the normal level required. Construction levels will be determined to allow for long term settlement.
4. For Tender Stage Purposes, an additional 150mm should be added to Crest and Core to allow for long term settlement. East of chainage 1800, this allowance should be raised to 300mm.
4. Grout cut-off may employ Plastic Concrete Diaphragms or other techniques to effect a Cut-off in Completely Weathered Rock.
5. This drawing to be read in conjunction with the following Nos.
D103332-914-0122. Plan Of Dam.
D103332-914-0124. Dam sections 2 Of 4.
D103332-914-0125. Dam Foundation & Grouting Plan.
D103332-914-0133. Profile Along Dam Axis.
D103332-914-0135. Dam Sections 3 of 4.
D103332-914-0136. Dam Sections 4 of 4
6. Foundation criterion 'A'. Foundation to rockfill and core zones weathering grade I to III rock. Strength not to be less than overlying material.
7. Foundation criterion 'B'. Foundation to rockfill and core zones weathering grade I to III rock. Minimum equivalent unconfined strength 75kPa.



CRITERION 'A'
FOUNDATION ON HARD MODERATELY
WEATHERED TO UN-WEATHERED ROCK

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Issued for Tender	BDS	PG	18/01/05	0
Revision Details	By	Check	Date	Suffix

Drawing Status
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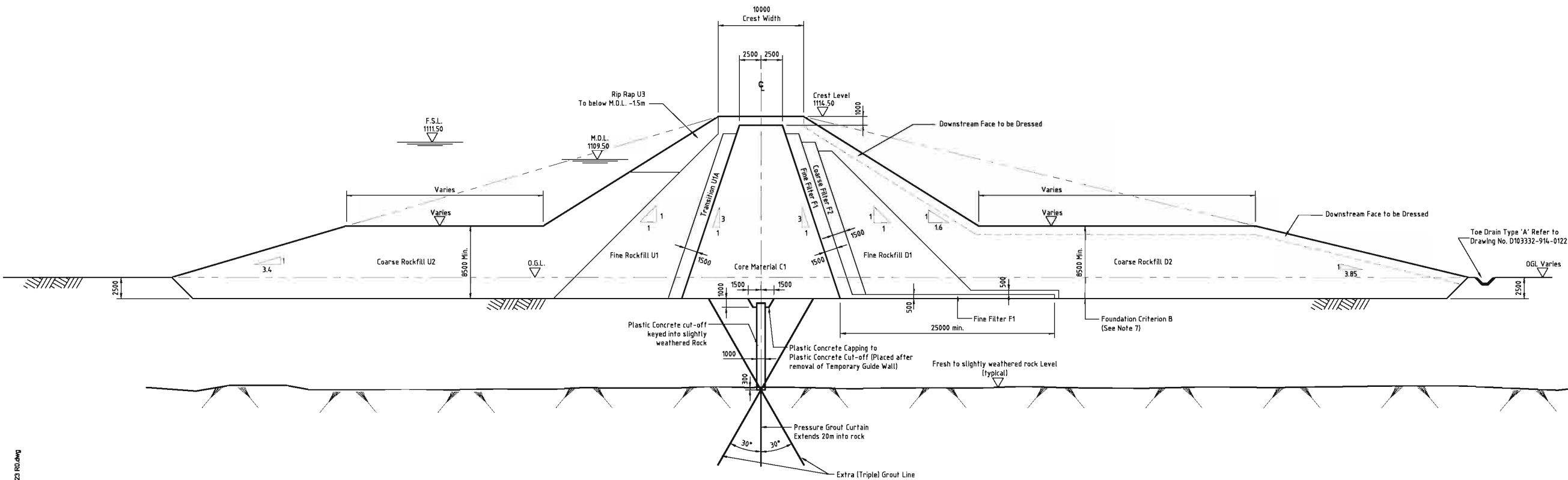
Job Title
BUJAGALI
HYDROPOWER PROJECT

Drawing Title
EMBANKMENT
DAM SECTIONS
SHEET 1 of 4

Scale at A1 1:250	Drawn IMC	Approved AMG
Stage 1 check	Stage 2 check	Originalled
		Date Jan'06

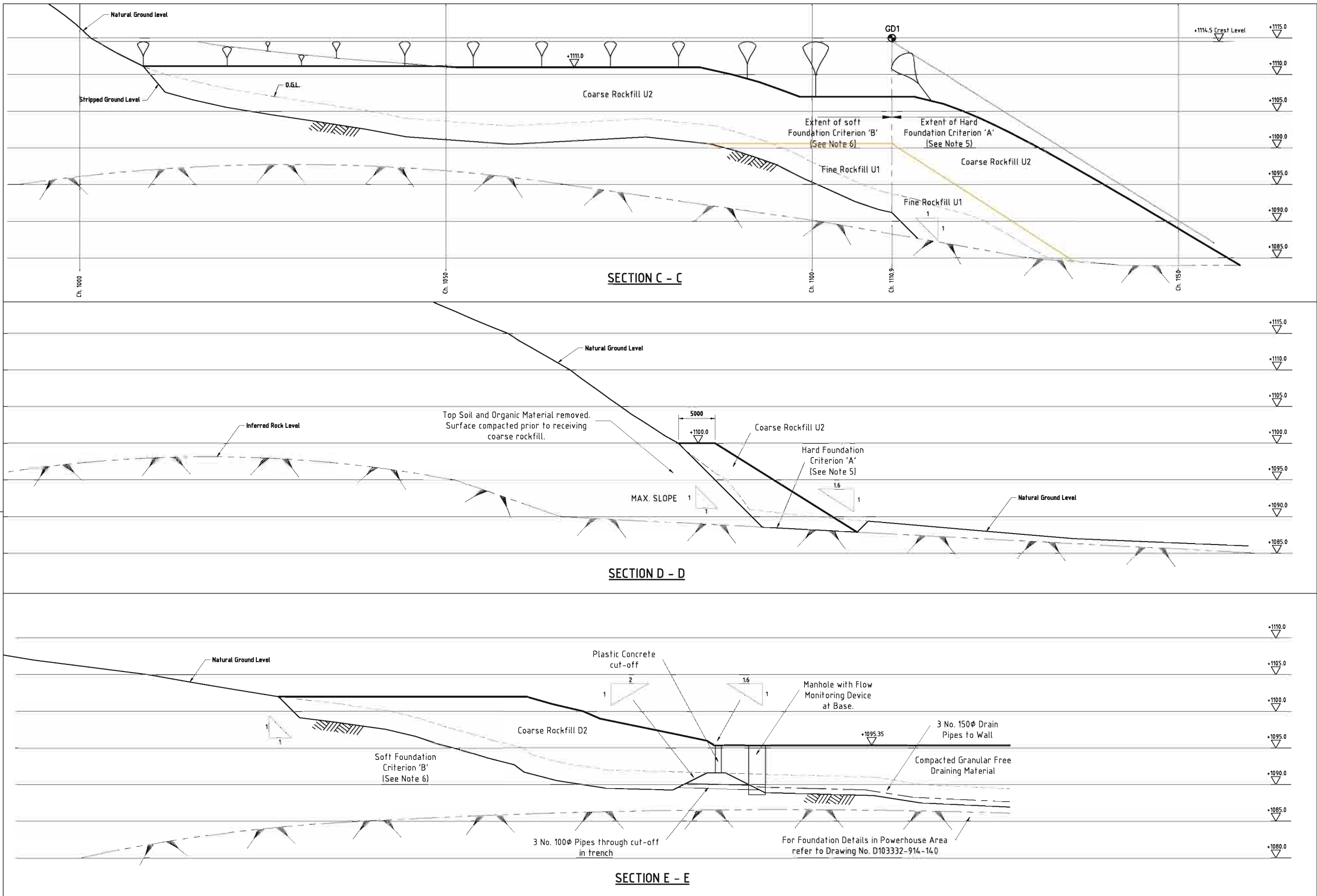
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Drawing Number
D103332-914-0123
Rev
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CRITERION 'B'
SHOWING ADDITIONAL BERMS WHERE FOUNDATION
IS ON WEAK (WEATHERED) ROCK





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Notes

1. All dimensions are in millimetres
2. All levels are in metres to Survey of Uganda Datum
3. The Embankment Crest level shown on this drawing is the normal level required. Construction levels will be determined to allow for long term settlement.
4. For Tender Stage Purposes, an additional 150mm should be added to Crest and Core to allow for long term settlement. East of chainage 1800, this allowance should be raised to 300mm.
4. Grout cut-off may employ Plastic Concrete Diaphragms or other techniques to effect a Cut-off in Completely Weathered Rock.
5. This drawing to be read in conjunction with the following Nos.
D103332-914-0122. Plan Of Dam.
D103332-914-0123 Dam Sections 1 of 4
(for locations of Dam Zones)
D103332-914-0125. Dam Foundation & Grouting Plan.
D103332-914-0133. Profile Along Dam Axis.
D103332-914-0135. Dam Sections 3 of 4
D103332-914-0136. Dam Sections 4 of 4
6. Foundation criterion 'A'. Foundation to rockfill and core zones weathering grade I to III rock. Strength not to be less than overlying material.
7. Foundation criterion 'B'. Foundation to rockfill and core zones weathering grade I to V rock. Minimum equivalent unconfined strength 75kPa.

Legend

- Final Fill Surface
- Inferred Excavation Line and Natural Ground Level
- Original Ground Level
- Inferred Fresh to Slightly Weathered Rock Surface

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Issued for Tender	BDS	pg	11/11/15	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
**EMBANKMENT
DAM SECTIONS
SHEET 2 of 4**

Scale at A1 1:250	Drawn BDS	Approved AMG
Stage 1 check	Stage 2 check	Originalled
		Date Jan'06

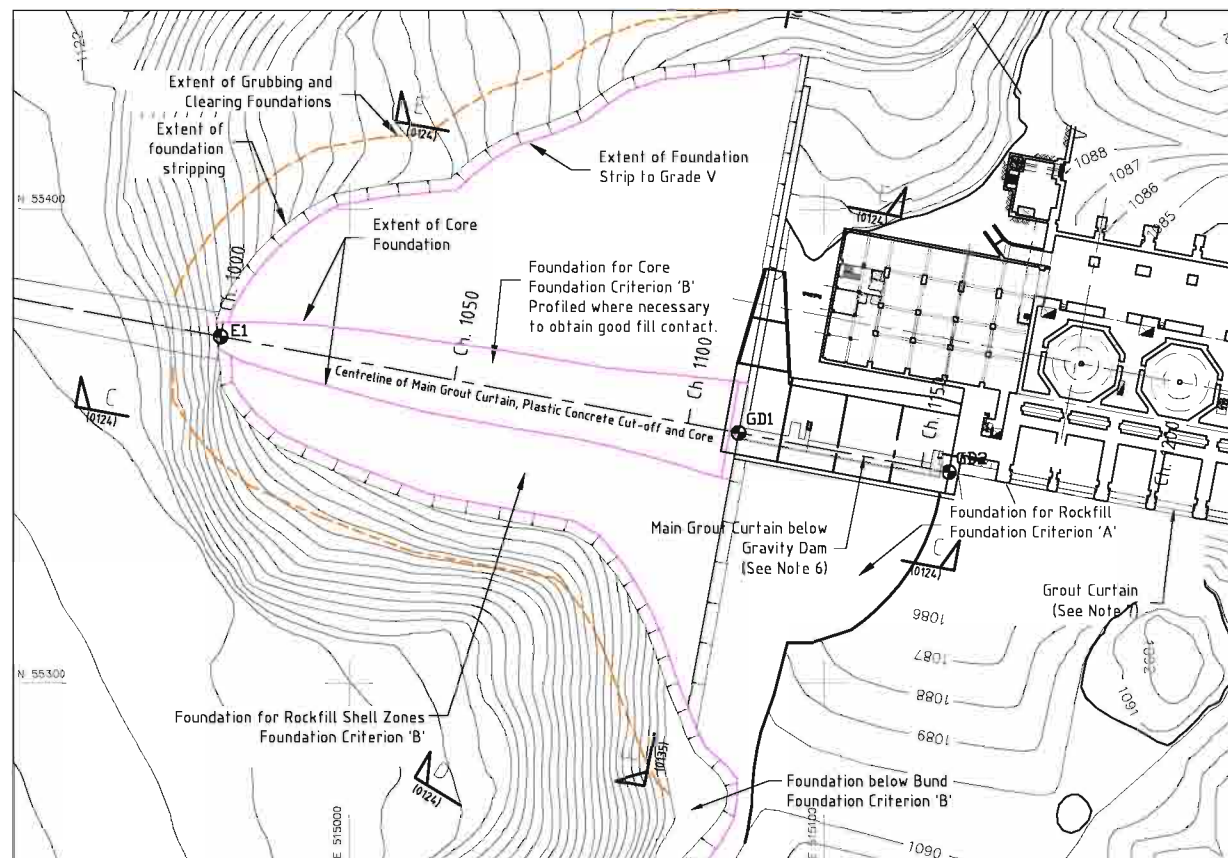
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Drawing Number
D103332-914-0124

Rev
0



[illegible]

KEY

- Primary Grout Holes
- △ Secondary Grout Holes
- Tertiary Grout Holes (As required)

1. Single line Curtain in Low Permeability Areas

2. Triple Line Curtain in High Permeability Areas

3. For Extent of Grout Curtain and Plastic Concrete Cut-off refer to Drawing No. D103332-914-0133.

4. Within extent of Plastic Concrete Cut-off, Pressure Grouting to be undertaken after installation of Diaphragm Wall. Guide Casing may be installed during Construction of Diaphragm wall.

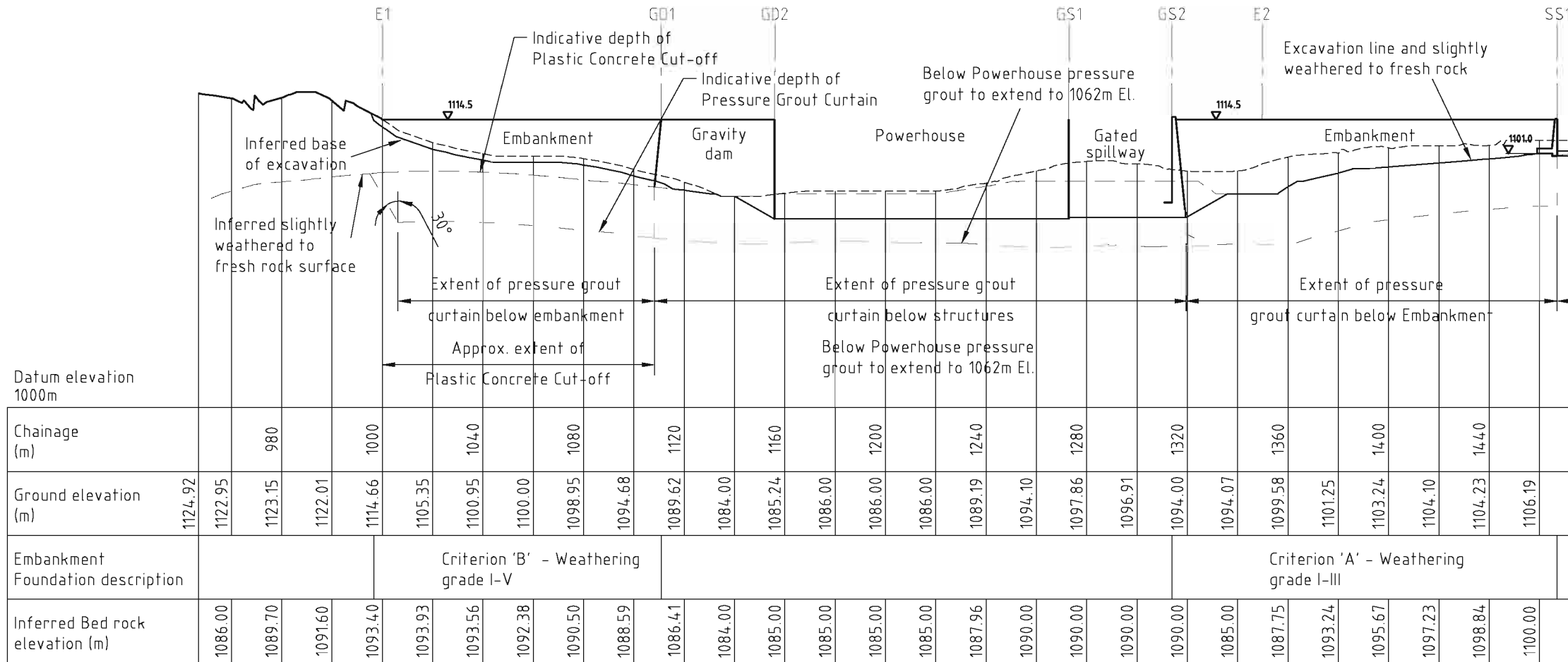
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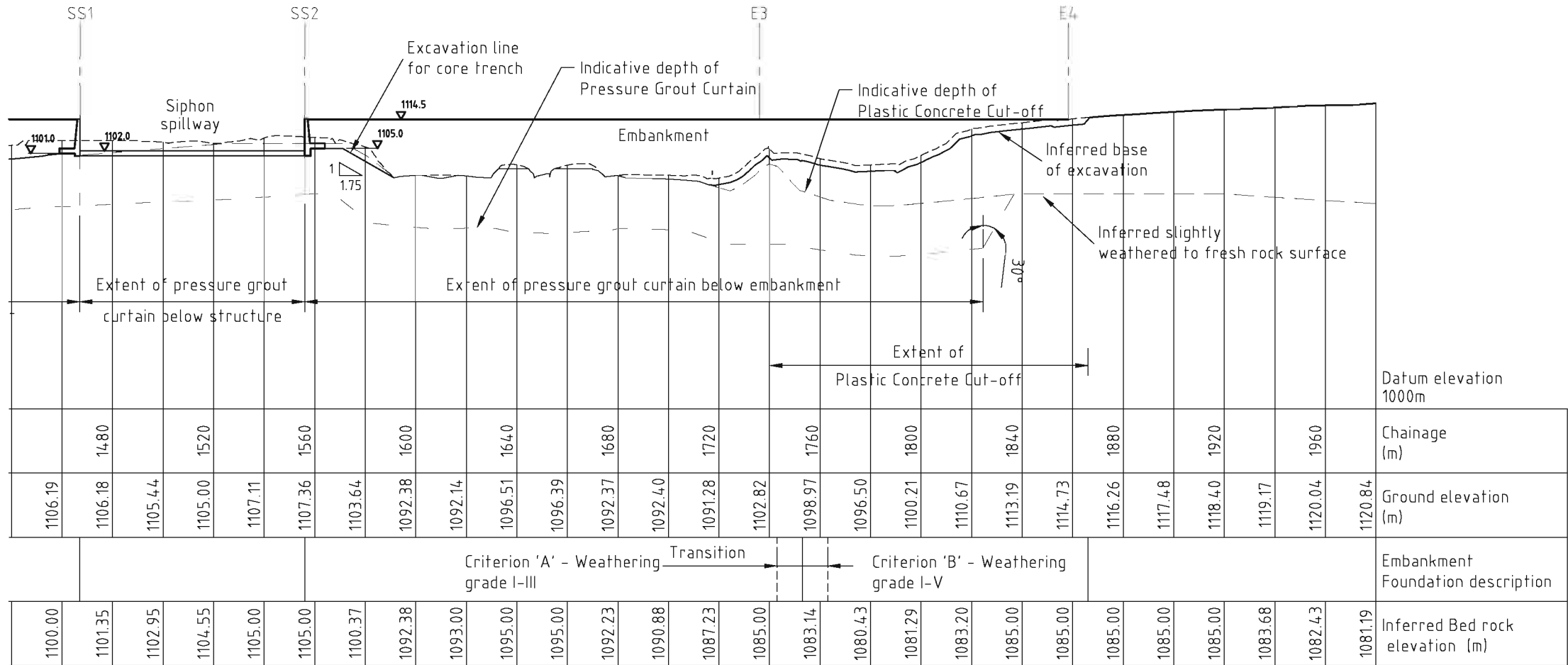
Drawing Number	Rev
D103332-914-0125	0

Plot Date: 11/14/2014
AutoCAD File Name: D:\03332-014-0125 R0.dwg

FOR CONTINUATION SEE ABOVE



SECTION ALONG EMBANKMENT / ROAD CENTRELINE (Cont)



SECTION ALONG EMBANKMENT / ROAD CENTRELINE (cont)

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Notes

- 1) All dimensions are in millimetres.
- 2) All levels are in metres to Survey of Uganda datum.
- 3) The embankment Crest Level shown on this drawing is the Nominal level required. Construction levels will be determined to allow for long term settlement.
- 4) Pressure grout curtain to penetrate a minimum of 20m into sound rock unless otherwise stated.
- 5) Plastic Concrete Cut-off to penetrate to sound groutable rock.
- 6) Main pressure grout curtain beneath gravity dam shall be offset 1500mm upstream of road centreline.
- 7) Main pressure grout curtain beneath gated spillway and powerhouse shall be offset 3000mm downstream of the road centreline.
- 8) Main pressure grout curtain beneath siphon spillway shall be offset 3000mm upstream of the road centreline.
- 9) Embankment fill to be founded on hard rock in accordance with criterion 'A' (See drawing D103332 - 914 - 0123) unless otherwise stated.
- 10) Embankment fill west of Ch. 1120m and east of Ch. 1740m to be founded on soft rock in accordance with criterion 'B' (See drawing D103332 - 914 - 0123).
- 11) Slightly weathered to fresh rock is best estimate of top surface of upper hard rock based on existing site investigation information. Actual hard rock surface will vary significantly from the inferred line.
- 12) This Drawing to be read in conjunction with the following Drawing No. D103332-914-0125, Dam Foundation & Grouting Plan.

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Issued for Tender	BDS	pg	1/1/15	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title
BUJAGALI HYDROPOWER PROJECT

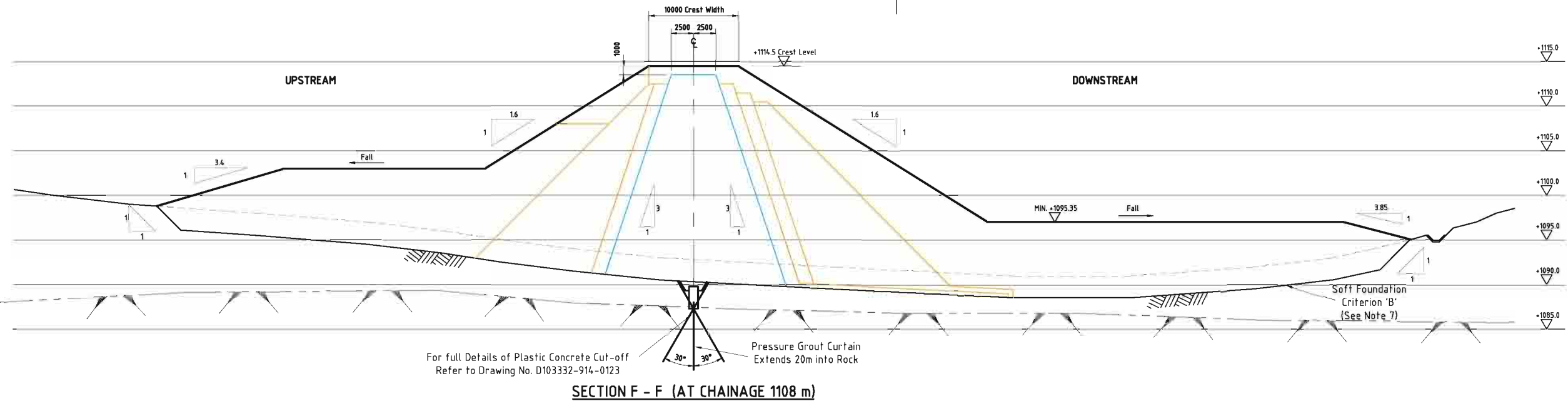
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EMBANKMENT PROFILE ALONG DAM AXIS

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Stage 1 check	Stage 2 check	Original
Date Jan'05		

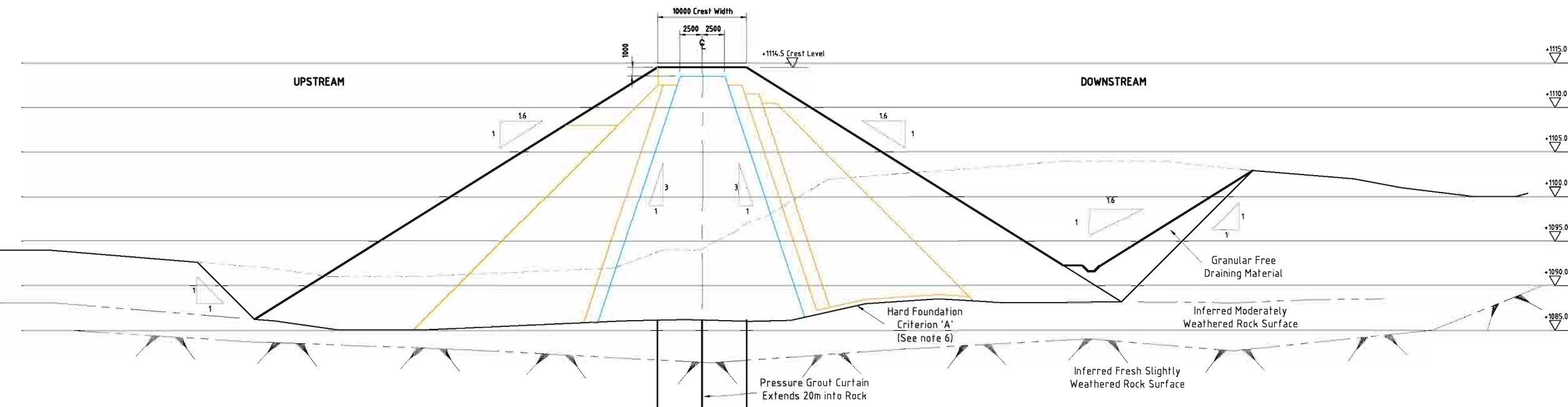
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Drawing Number
D103332-914-0133
Rev
0

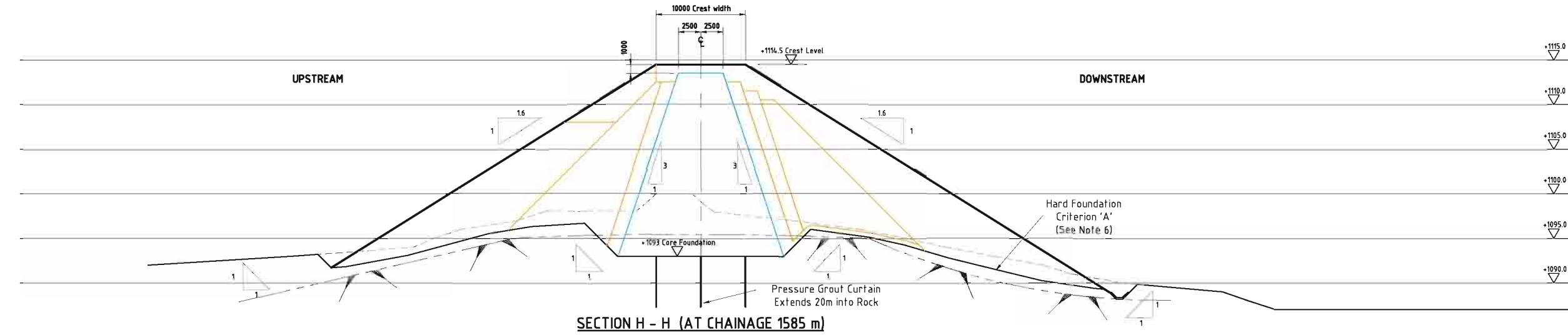
Plot Date :
AutoCAD File Name : D:\33332-914-0135 BD.dwg
BWS/PLV



SECTION F - F (AT CHAINAGE 1108 m)



SECTION G - G (AT CHAINAGE 1340 m)



SECTION H - H (AT CHAINAGE 1585 m)

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Notes

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4. Grout cut-off may employ Plastic Concrete Diaphragms or other techniques to effect a Cut-off in Completely Weathered Rock.
5. This drawing to be read in conjunction with the following Nos.
D103332-914-0122, Plan Of Dam.
D103332-914-0123, Dam Sections Sheet 1 of 4 (for locations of Dam Zones)
D103332-914-0124, Dam Sections Sheet 2 of 4
D103332-914-0125, Dam Foundation & Grouting Plan.
D103332-914-0133, Profile Along Dam Axis.
D103332-914-0136, Dam Sections 4 of 4
6. Foundation criterion 'A'. Foundation to rockfill and core zones weathering grade I to III rock. Strength not to be less than overlying material.
7. Foundation criterion 'B'. Foundation to rockfill and core zones weathering grade I to V rock. Minimum equivalent unconfined strength 75kPa.

Legend

- Final Fill Surface
- Inferred Excavation Line and Natural Ground Level
- Original Ground Level
- Inferred Fresh to Slightly Weathered Rock Surface
- Inferred Moderately Weathered Rock Surface

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Issued for Tender	BDS	pg	11/11/15	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
**EMBANKMENT
DAM SECTIONS
SHEET 3 of 4**

Scale at A1 1:250	Drawn BDS	Approved AMG
Stage 1 check	Stage 2 check	Originated
		Date Jan'06

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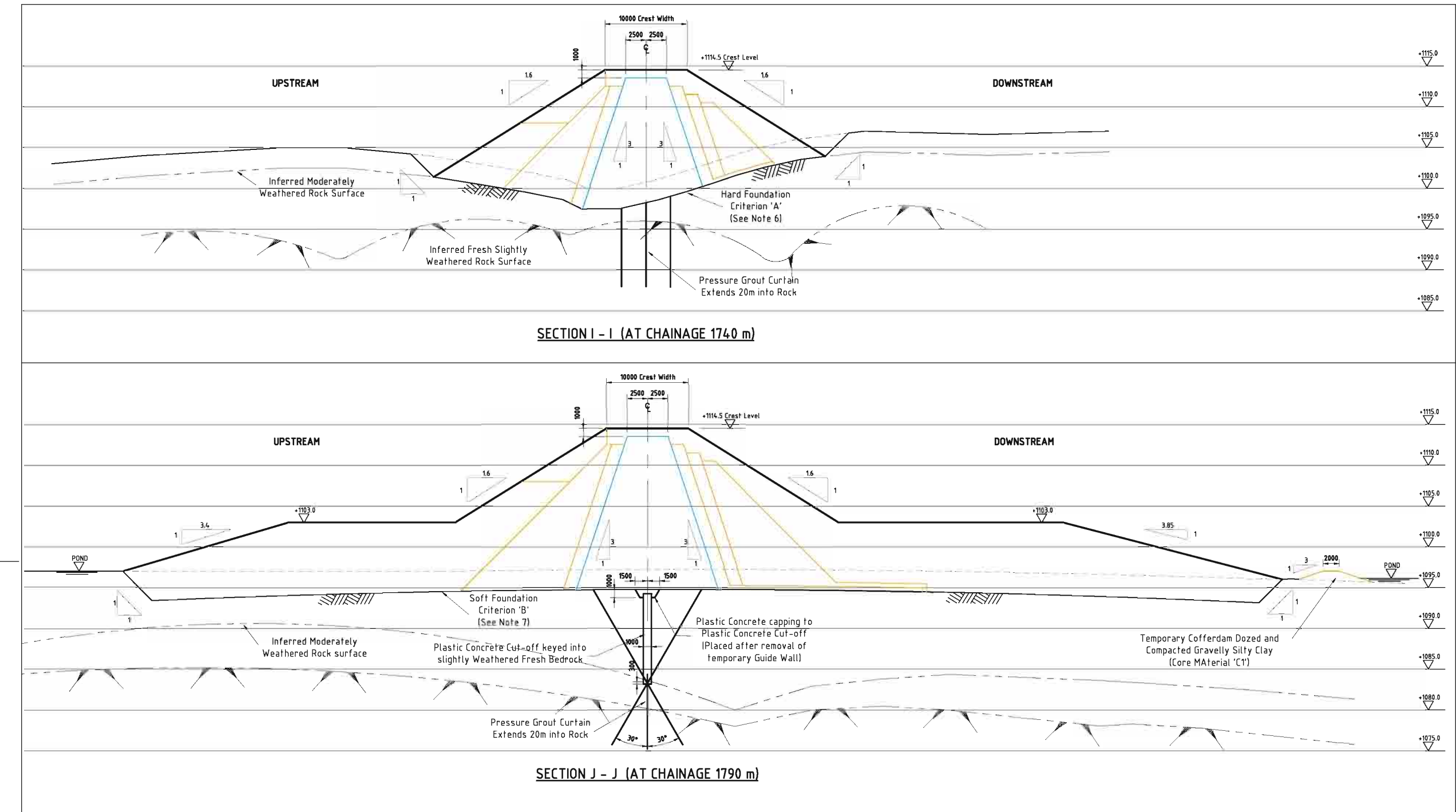


Drawing Number
D103332-914-0135

Rev
0



Plot Date :
AutoCAD File Name : D103332-914-0136 RD.dwg



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Notes

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D103332-914-0122. Plan Of Dam.
D103332-914-0123. Dam Sections Sheet 1 of 4 (for location of Dam Zones)
D103332-914-0125. Dam Foundation & Grouting Plan.
D103332-914-0133. Profile Along Dam Axis.
D103332-914-0124. Dam Sections 2 of 4
D103332-914-0135. Dam Sections 3 of 4
6. Foundation criterion 'A'. Foundation to rockfill and core zones weathering grade I to III rock. Strength not to be less than overlying material.
7. Foundation criterion 'B'. Foundation to rockfill and core zones weathering grade I to V rock. Minimum equivalent unconfined strength 75kPa.

Legend

- Final Fill Surface
- Inferred Excavation Line and Natural Ground Level
- Original Ground Level
- Inferred Fresh to Slightly Weathered Rock Surface
- Inferred Moderately Weathered Rock Surface

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Issued for Tender	BDS	pg	11/11/15	0
Revision Details	By	Date	Suffix	
	Check			

Drawing Status
TENDER DRAWING

Job Title
**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
**EMBANKMENT

DAM SECTIONS
SHEET 4 of 4**

Scale at A1 1:250	Drawn BDS	Approved AMG
Stage 1 check	Stage 2 check	Originated Date Jan'05

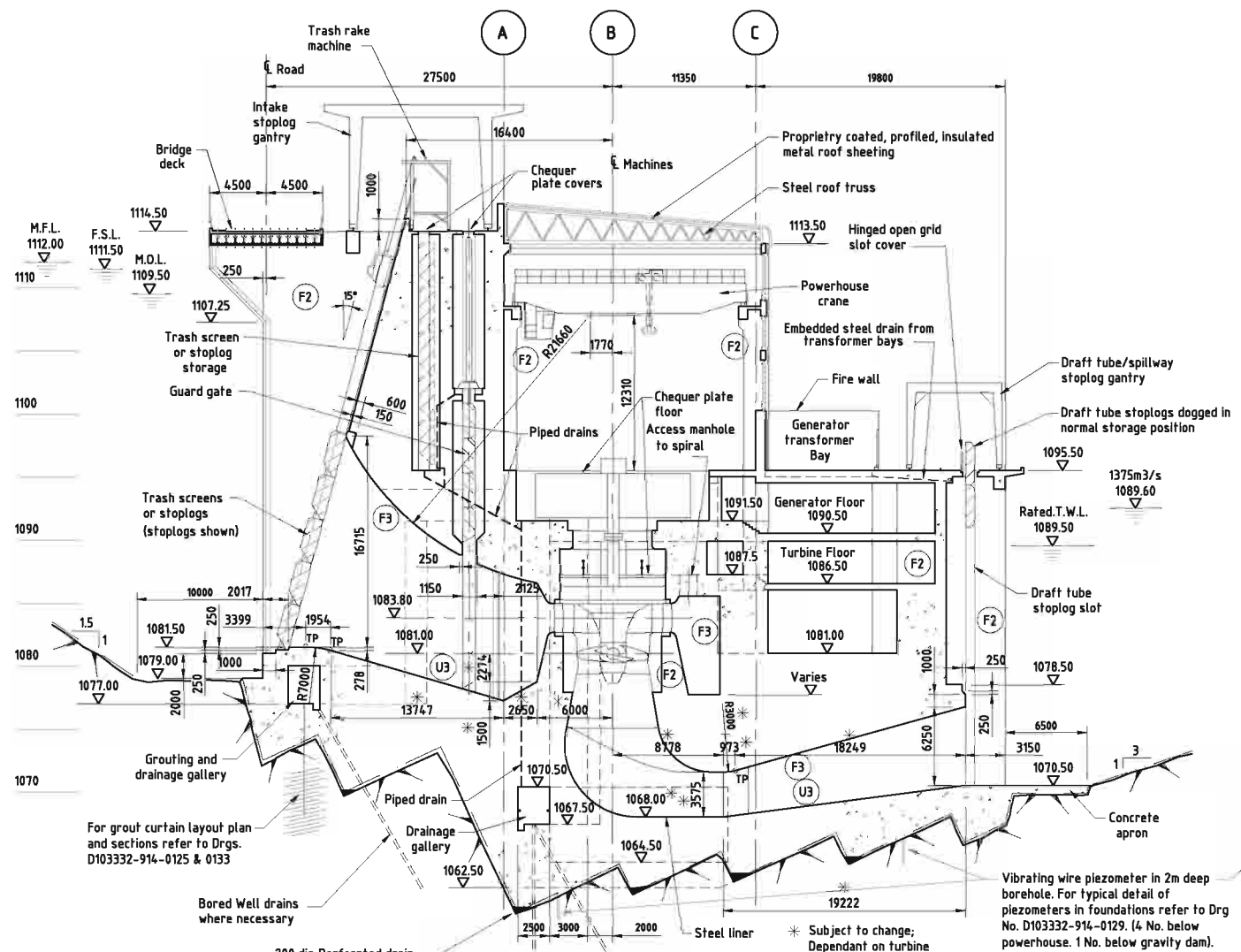
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Drawing Number
D103332-914-0136
Rev
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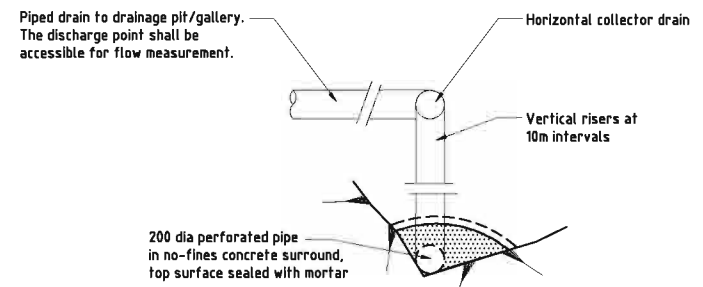


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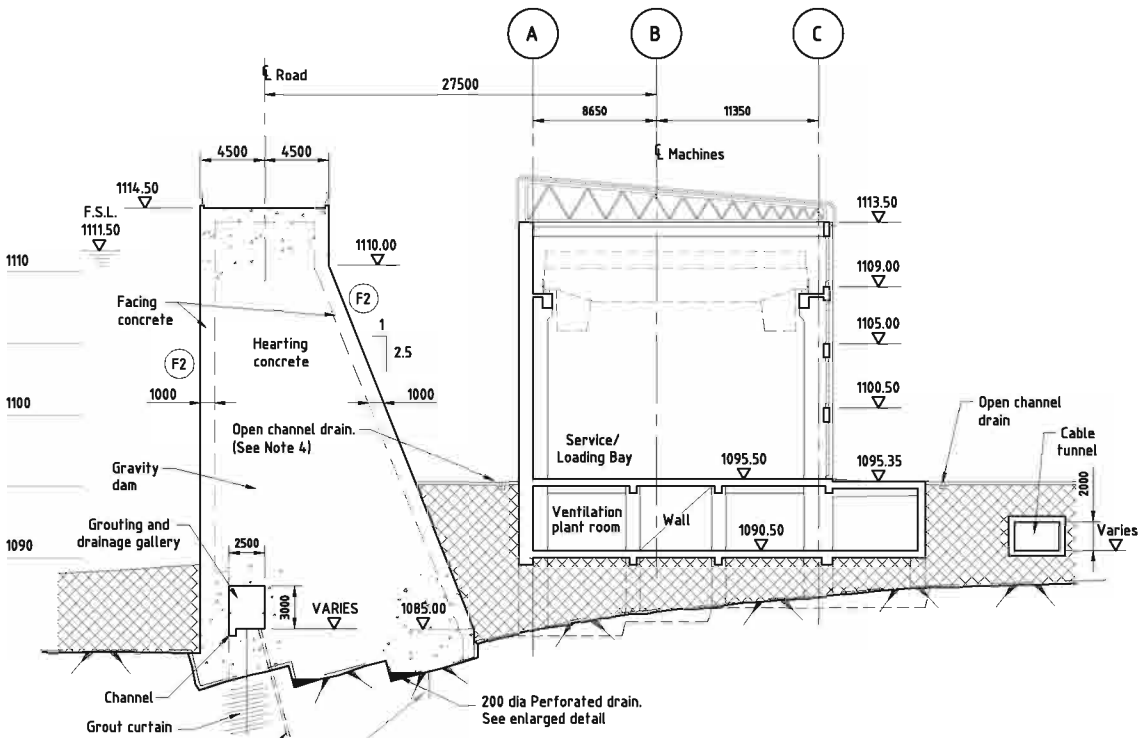
- NOTES:
1. All dimensions are in millimetres.
 2. All levels are in metres.
 3. For details of main setting out points refer to Drg. no. D103332-914-0104.
 4. For details of excavation refer to Drg. nos. D103332-914-0140 & 0141.
 5. For apron surface details refer to Drg. no. D103332-914-0152.



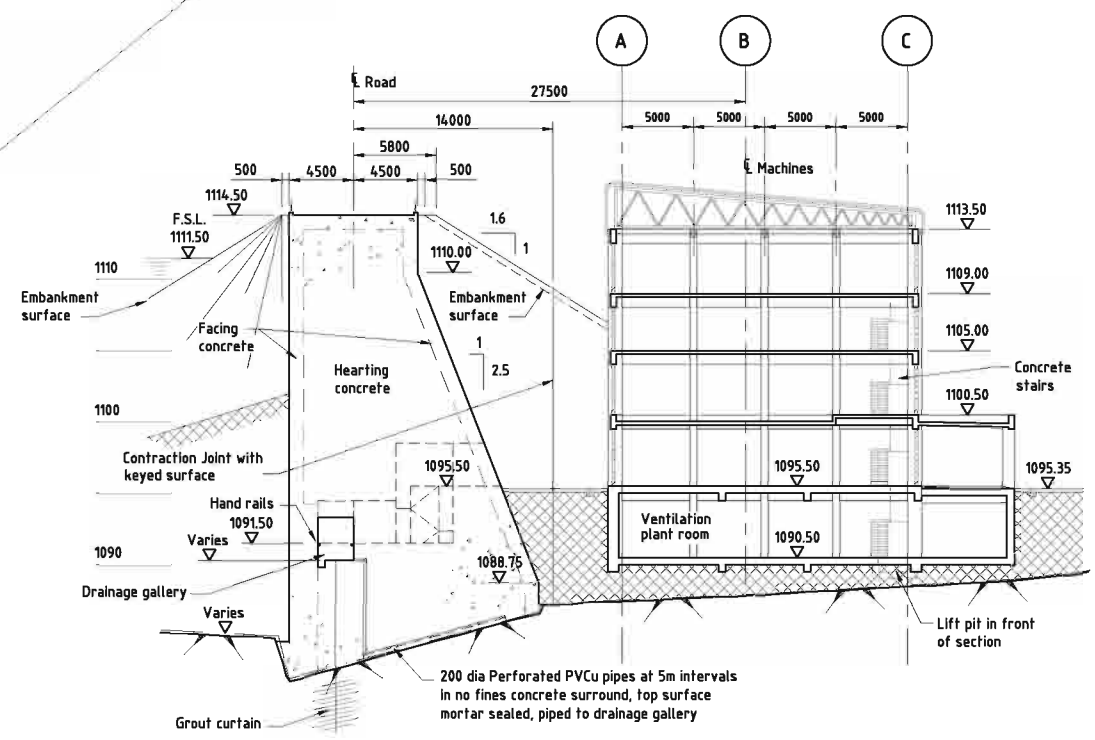
SECTION THROUGH CENTRE LINE OF MACHINE



ENLARGED DETAIL OF EXCAVATION COLLECTOR DRAIN
(NOT TO SCALE)



GRAVITY DAM/POWERHOUSE SERVICE/LOADING BAY CROSS SECTION



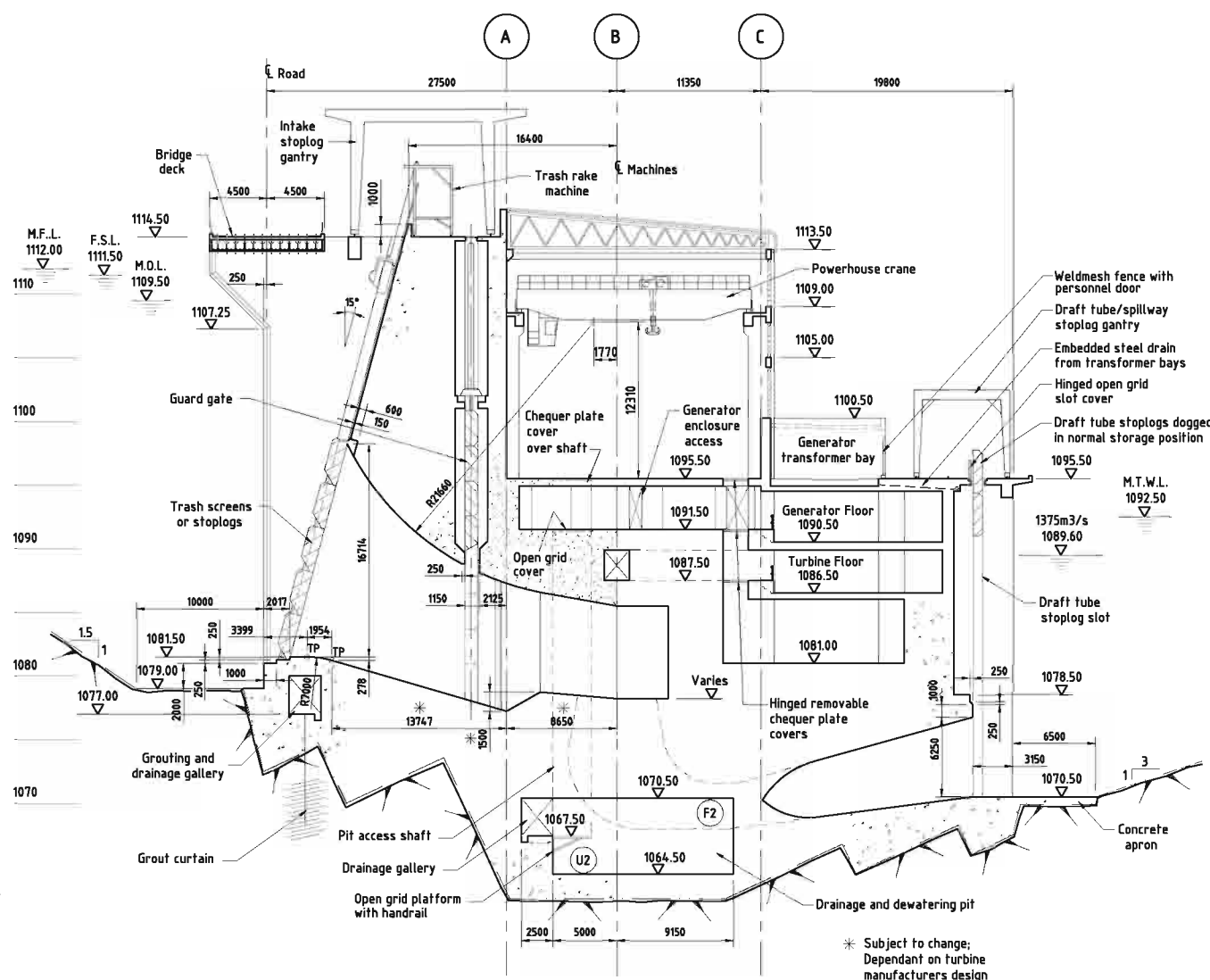
GRAVITY DAM/CONTROL BLOCK CROSS SECTION

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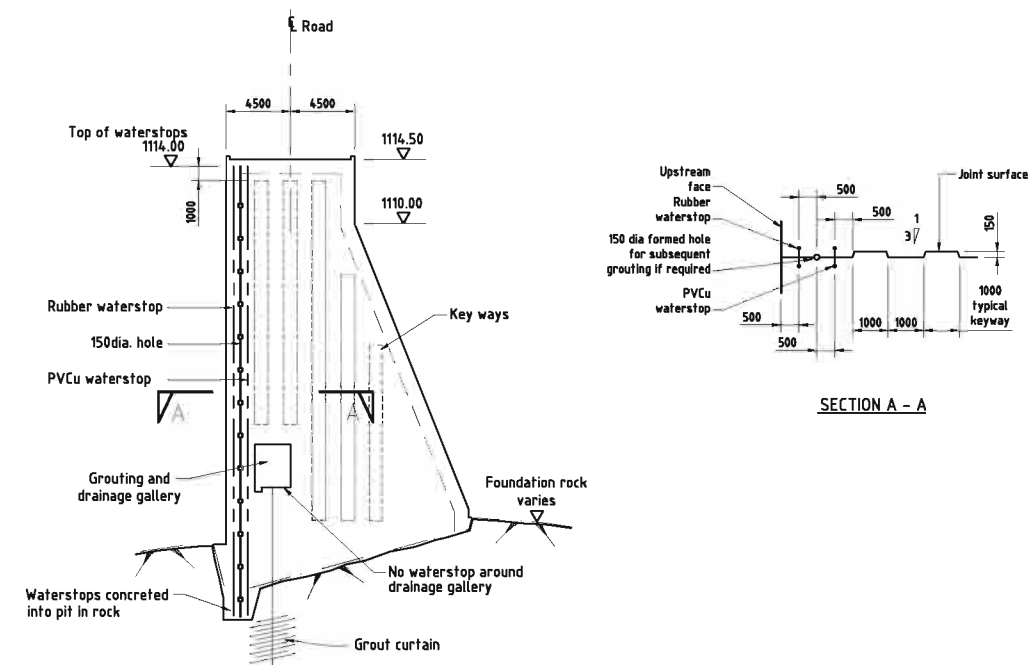
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Job Title	BUJAGALI HYDROPOWER PROJECT				
Drawing Title	POWERHOUSE CROSS SECTIONS SHEET 1 OF 2				
Scale at A1	1:250				
Drawn	TM	Approved	AMG		
Stage 1 check	Stage 2 check	Originated	Date	Jan'05	
Scott Wilson Piesold					Rev
Kantack House Station Road, Ashford Kent, TN23 1PP Telephone (01233) 656200 Fax (01233) 656209 www.scottwilson.com					0
D103332-914-0143					

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

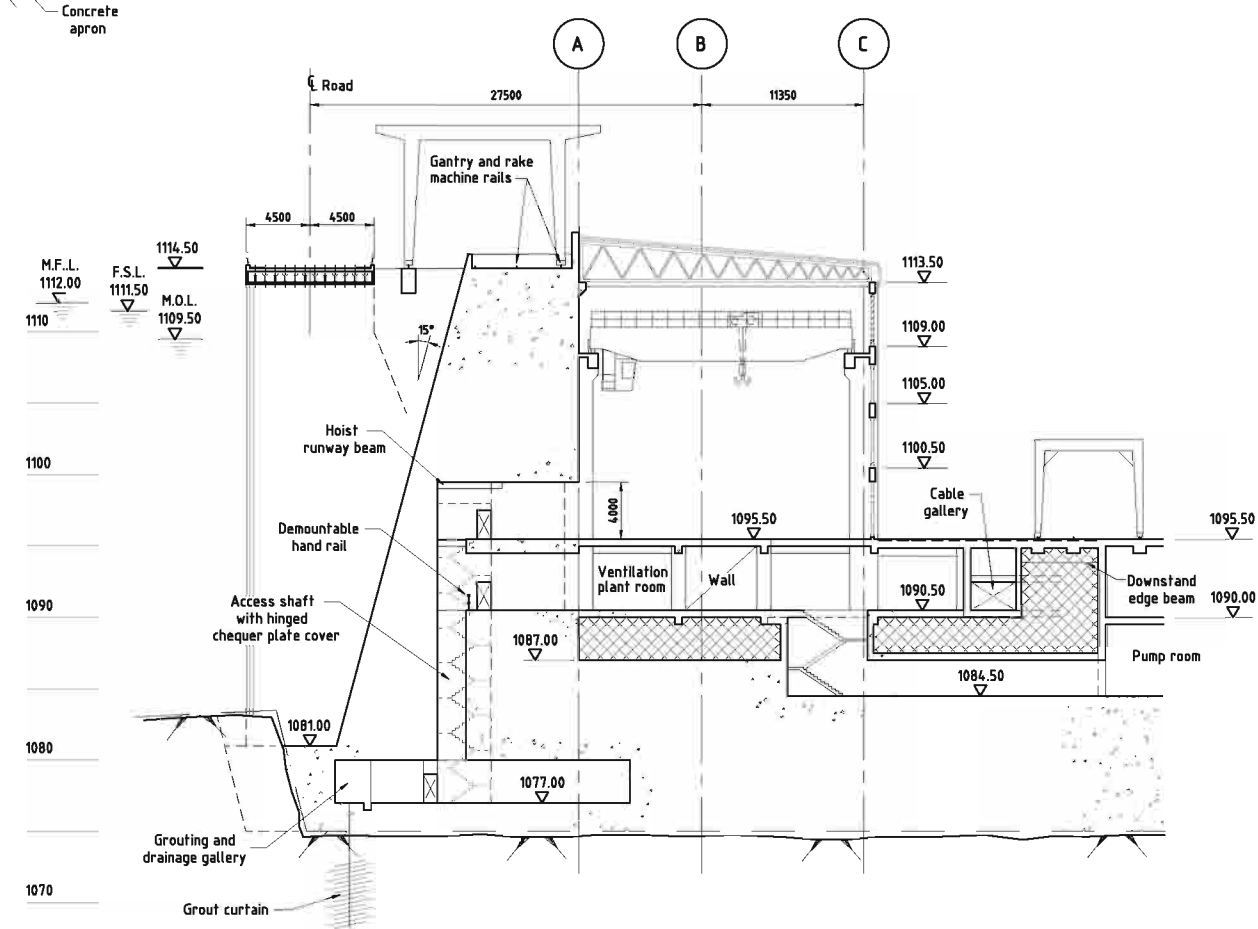
- NOTES:
1. All dimensions are in millimetres.
 2. All levels are in metres.
 3. For details of main setting out points refer to Drg. no: D103332-914-0104.
 4. For details of excavation refer to Drg. nos: D103332-914-0140 & 0141.



POWERHOUSE TYPICAL CROSS SECTION THROUGH ACCESS SHAFT AND DRAINAGE DEWATERING PIT



GRAVITY DAM CONTRACTION JOINT DETAILS



POWERHOUSE TYPICAL CROSS SECTION THROUGH GROUTING & DRAINAGE GALLERY AND ACCESS PASSAGE TO COOLING WATER PUMP HOUSE

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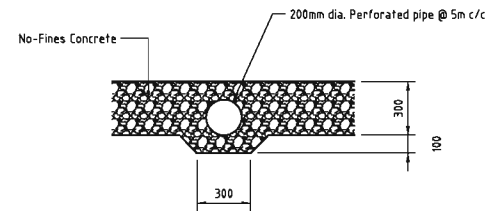
Issued for Tender	KCP	Y	10	11/11/05	0
Revision Details	By	Check	Date	Suffix	
Drawing Status	TENDER DRAWING				
Job Title	BUJAGALI HYDROPOWER PROJECT				
Drawing Title	POWERHOUSE CROSS SECTIONS SHEET 2 OF 2				
Scale at A1	1:250				
Drawn	KCP	Approved	AMG		
Stage 1 check	Stage 2 check	Original	Date	Jan'05	
Scott Wilson Piésold					Rev
Kearthick House, Station Road, Ashford, Kent, TN23 1PP, Telephone (01233) 656200, Fax (01233) 656209, www.scottwilson.com					0
Drawing Number					
D103332-914-0144					



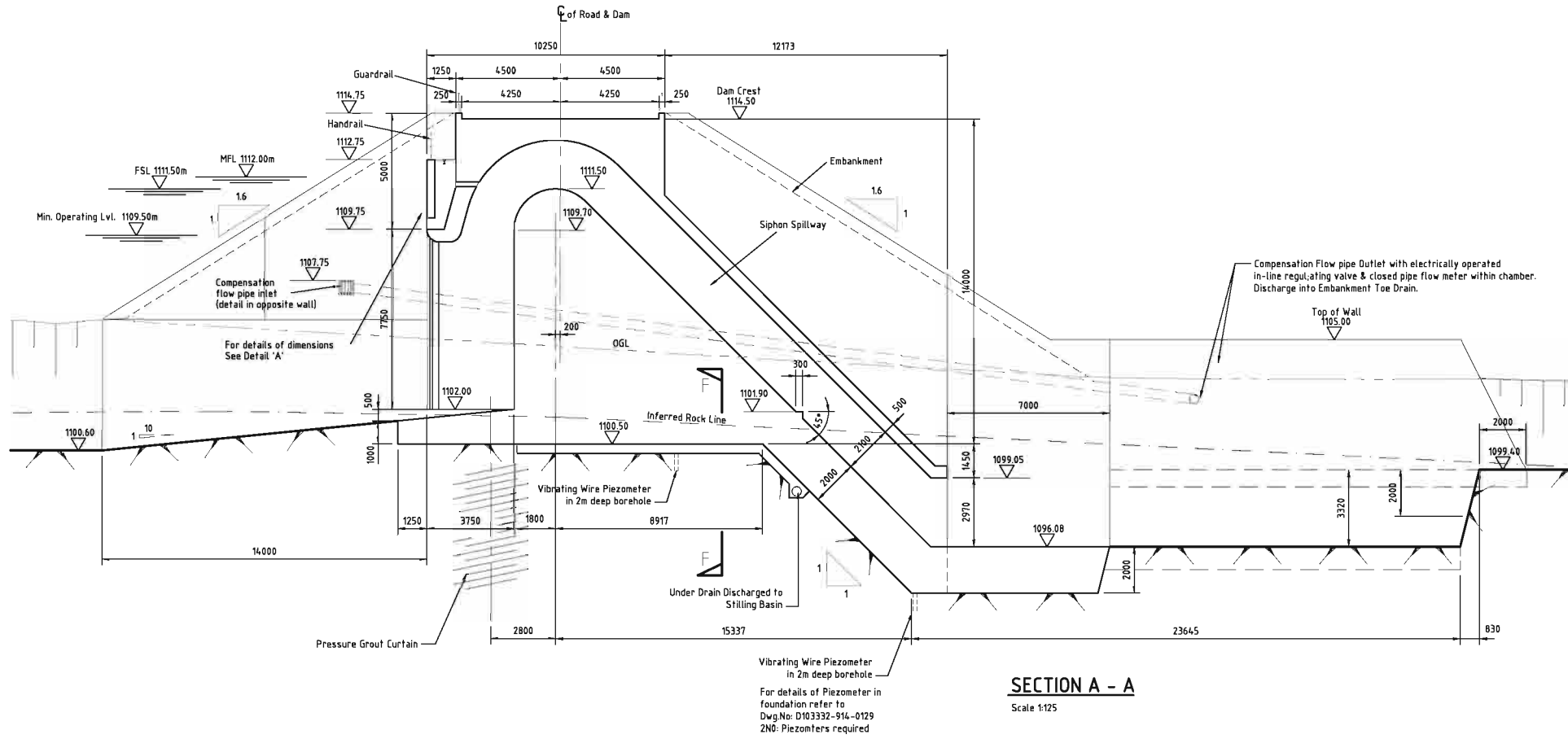
Drawing Number	Rev
D103332-914-0180	0

Notes

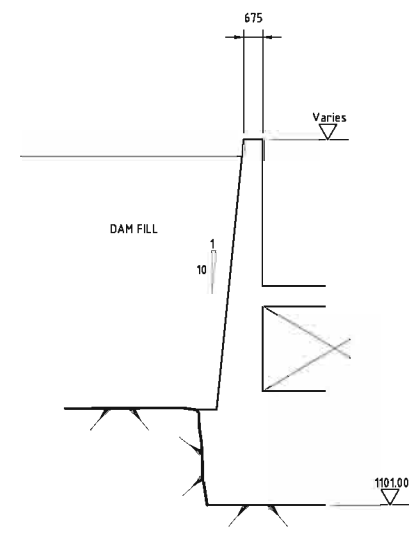
1. All dimensions are in millimeters
2. All levels are in metres
3. For details of Setting Out Points refer to Dwg.No:0103332-914-0104
4. Survey Data
The survey data provided on this drawing is based on the following trig station & bench mark
72X6 BUWENDA N=52304.037m / E=519811.82m
Elevations are based on the following Owen Falls bench mark
BM No: MDE1 el. 1136.25m
5. The dimensions shown on this drawing are provisional and are subject to confirmation of Hydraulic Model Studies for the Siphon Spillway.



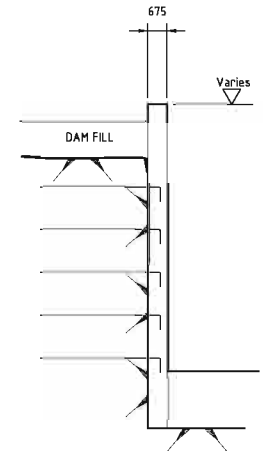
SECTION F - F
Scale 1:20



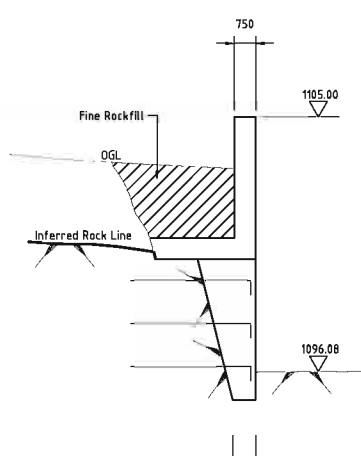
SECTION A - A
Scale 1:125



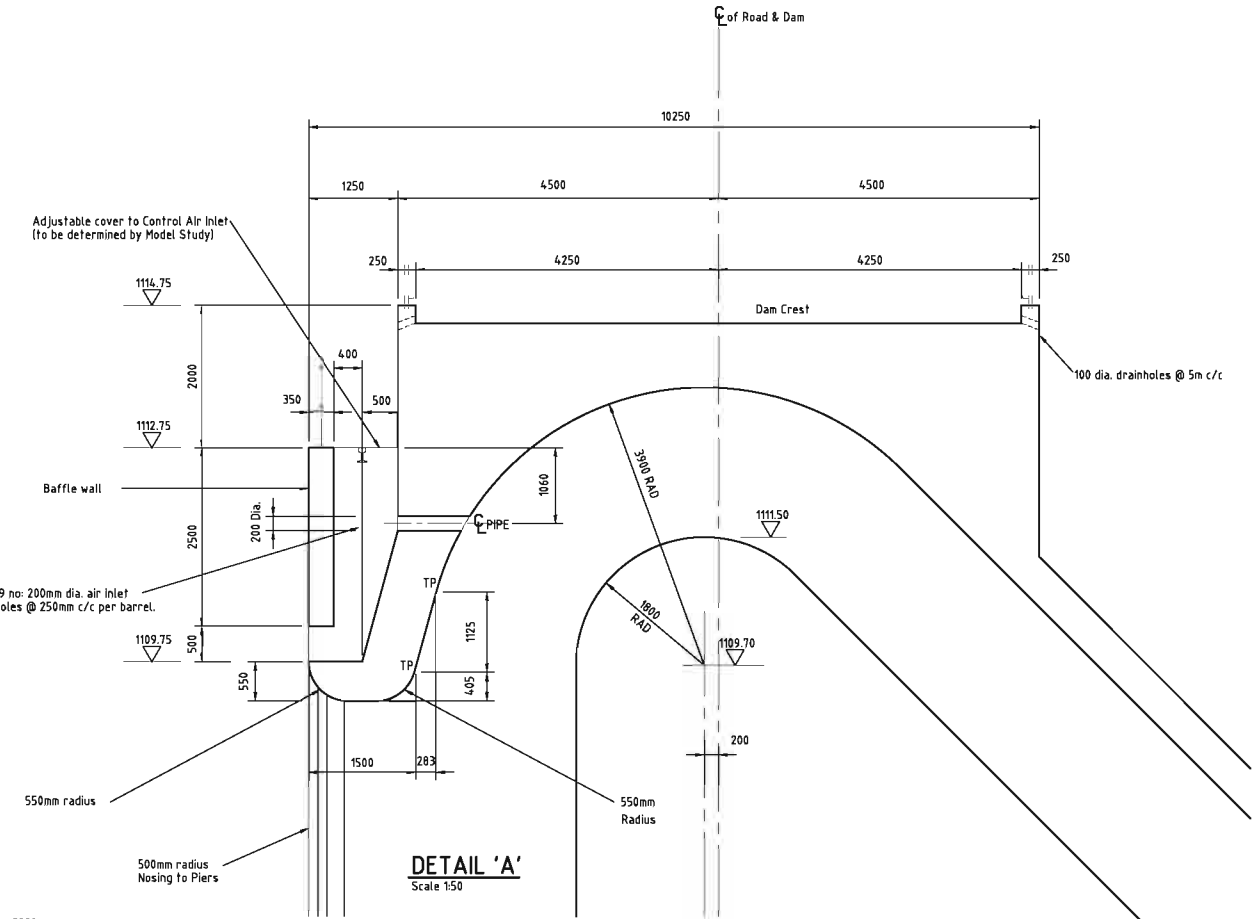
SECTION C - C
Scale 1:125



SECTION D - D
Scale 1:125



SECTION E - E
Scale 1:125



DETAIL 'A'
Scale 1:50

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Issued for Tender	AHB	yp	11/11/15	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title

**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
SIPHON SPILLWAY

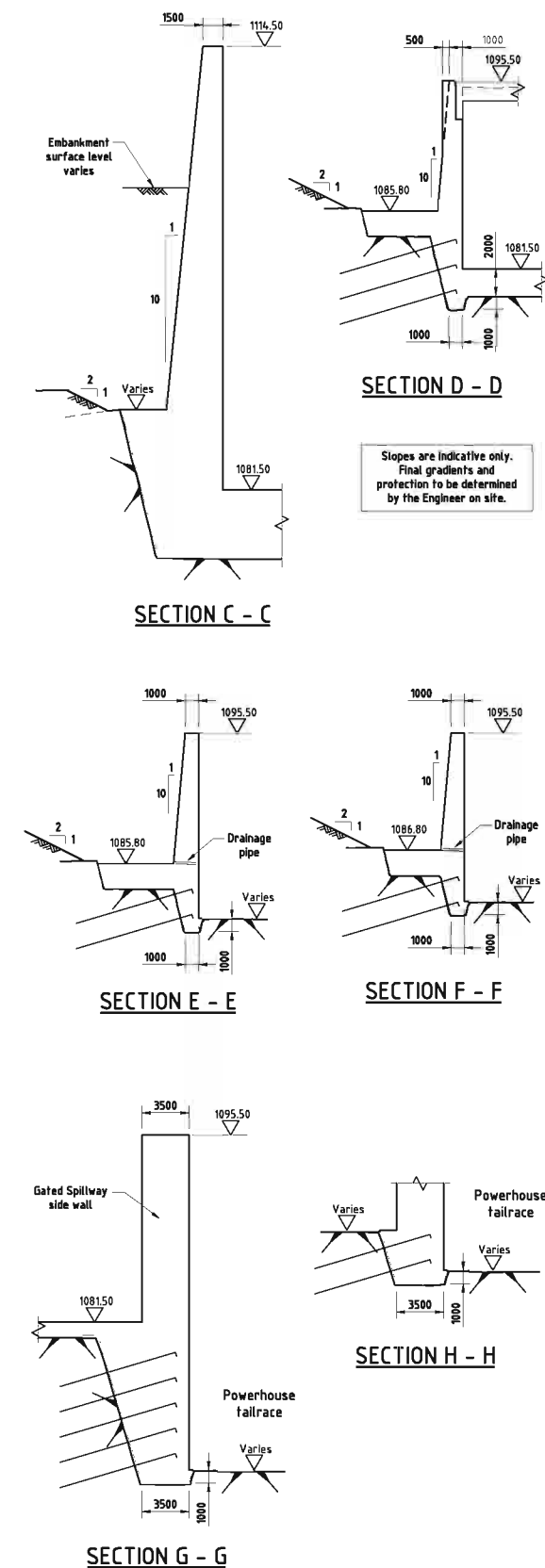
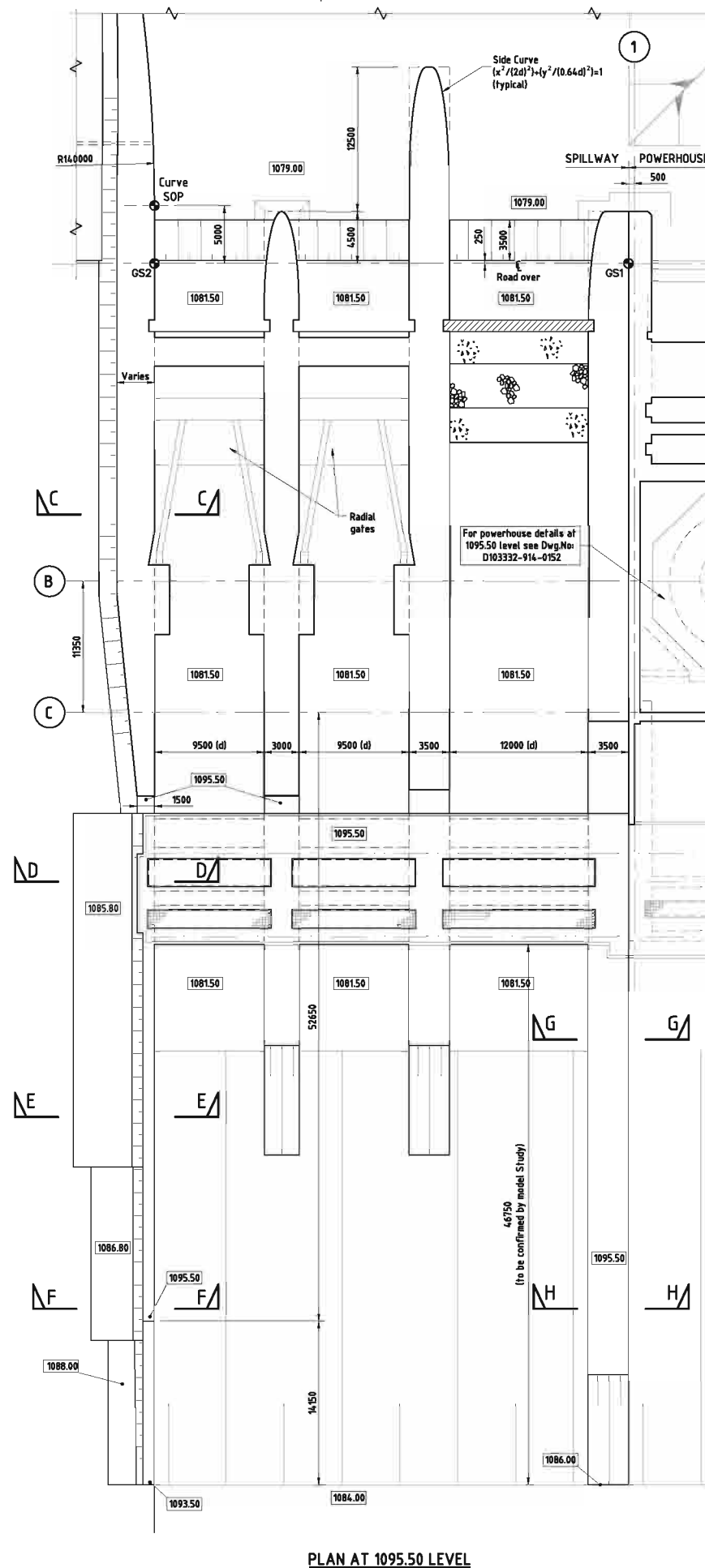
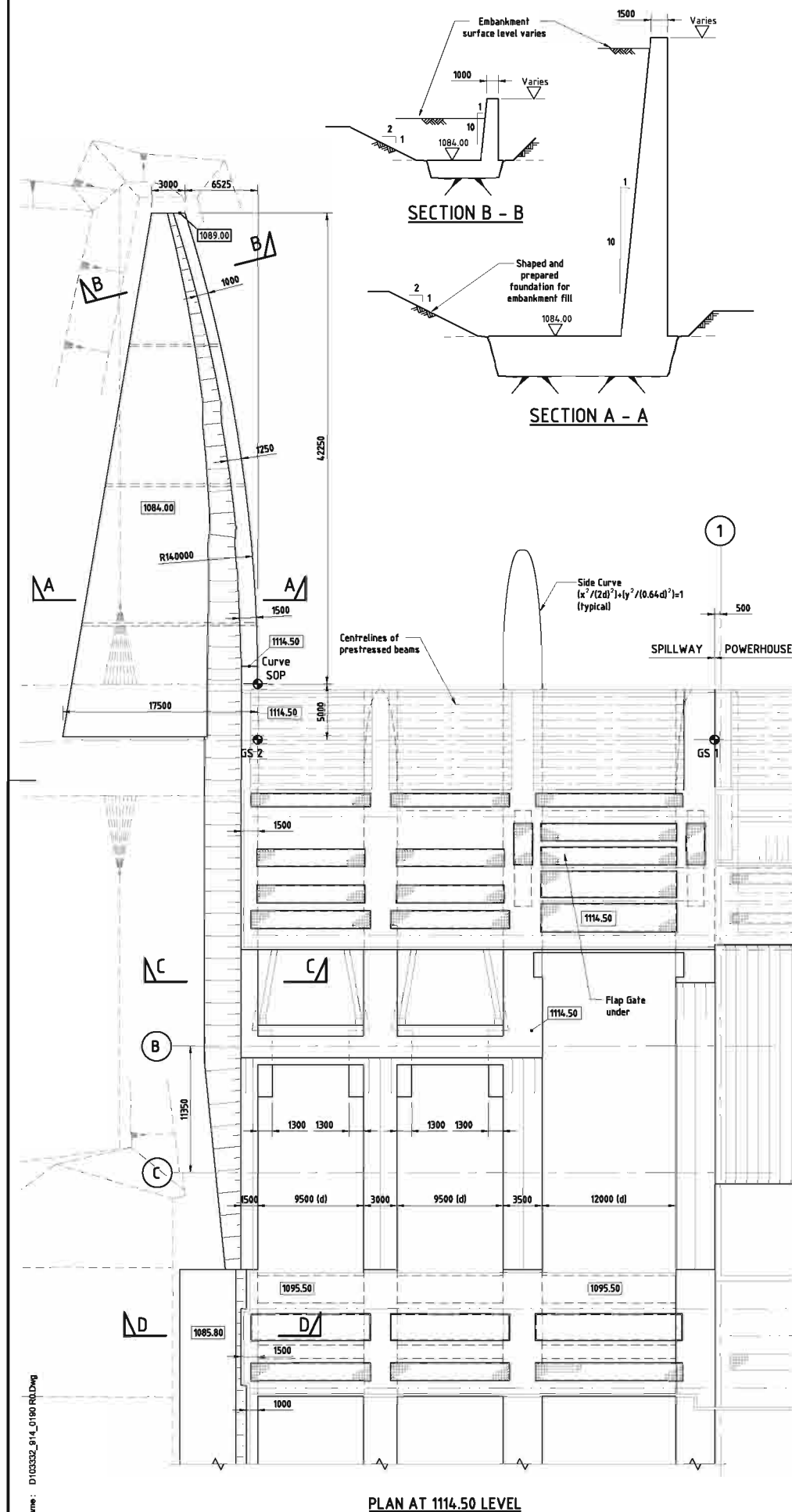
**CONCRETE LAYOUT
CROSS SECTIONS**

Scale at A1 As Shown	Drawn IMC	Approved AMG
Stage 1 check	Stage 2 check	Original
		Date Jan'05

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Drawing Number
D103332-914-0181

Rev
0



FOR SPILLWAY CROSS SECTIONS
SEE DRG. No. D103332-914-0191

SECTION D - D

SECTION E - E

SECTION F - F

SECTION H - H

SECTION G - G

Slopes are indicative only.
Final gradients and
protection to be determined
by the Engineer on site.

Notes

1. All dimensions are in millimeters
2. All levels are in metres
3. For details of Setting Out Points refer to Dwg.No:D103332-914-0104
4. Survey Data
The survey data provided on this drawing is based on the following trig station & bench mark
72X6 BUWENDA N=52304.037m / E=519811.82m
Elevations are based on the following Owen Falls bench mark
BM No: MDE1 el. 1136.25m

THIS DRAWING IS TO ILLUSTRATE THE CONCEPTUAL LAYOUT OF THE FACILITY AS ENVISIONED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE BASIC AND DETAILED DESIGN AND IS RESPONSIBLE FOR THE PERFORMANCE OF THE CONSTRUCTED FACILITY IN ACCORDANCE WITH THE EPC TENDER DOCUMENTS.

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Issued for TENDER	IMC / TP	19/01/05	0
Revision Details	By / Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title

**BUJAGALI
HYDROPOWER PROJECT**

Drawing Title
RADIAL GATE SPILLWAY

PLANS AT 1114.50 AND 1095.50 LEVELS

Scale at A1
1:250

Drawn TM		Approved AMG	
Stage 1 check	Stage 2 check	Originated	Date Jan '05

			James
Scott Wilson Pietsold			

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Drawing Number	Rev
D1000000-014-0100	0

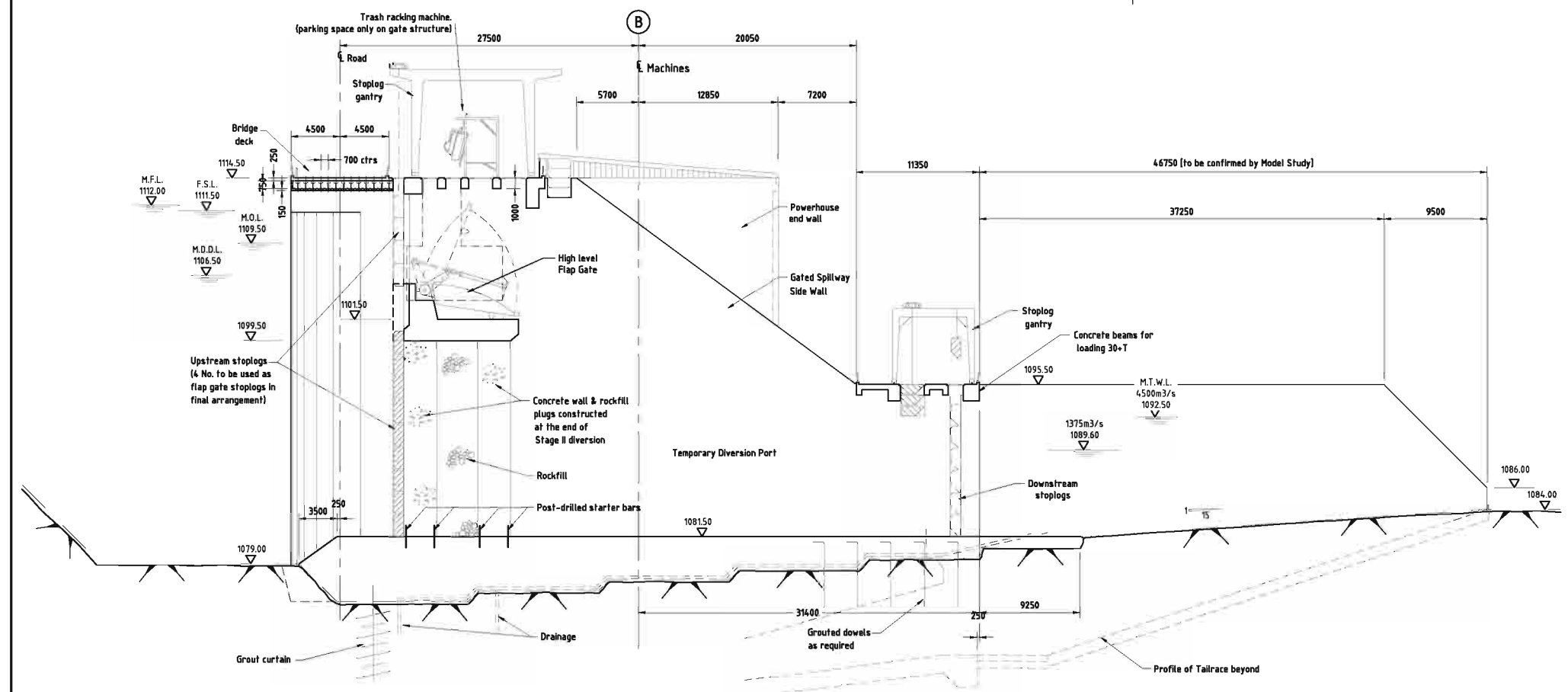
D103332-914-0190 0

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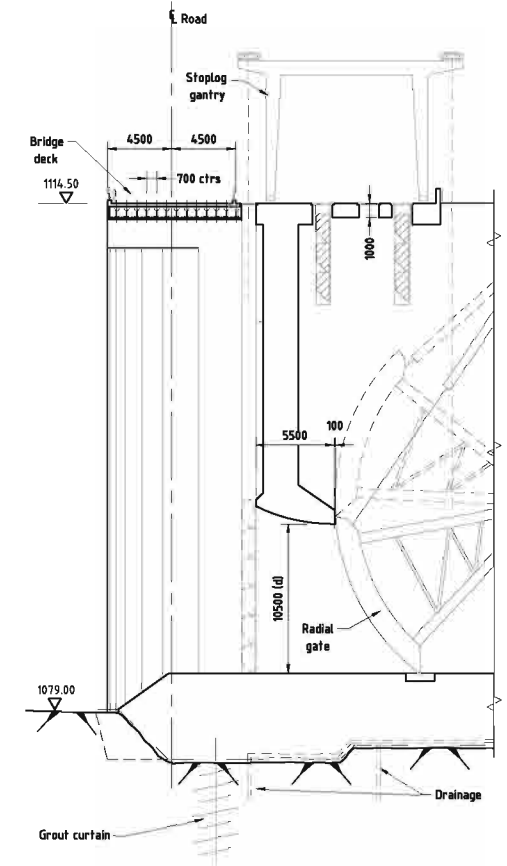
THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

Notes

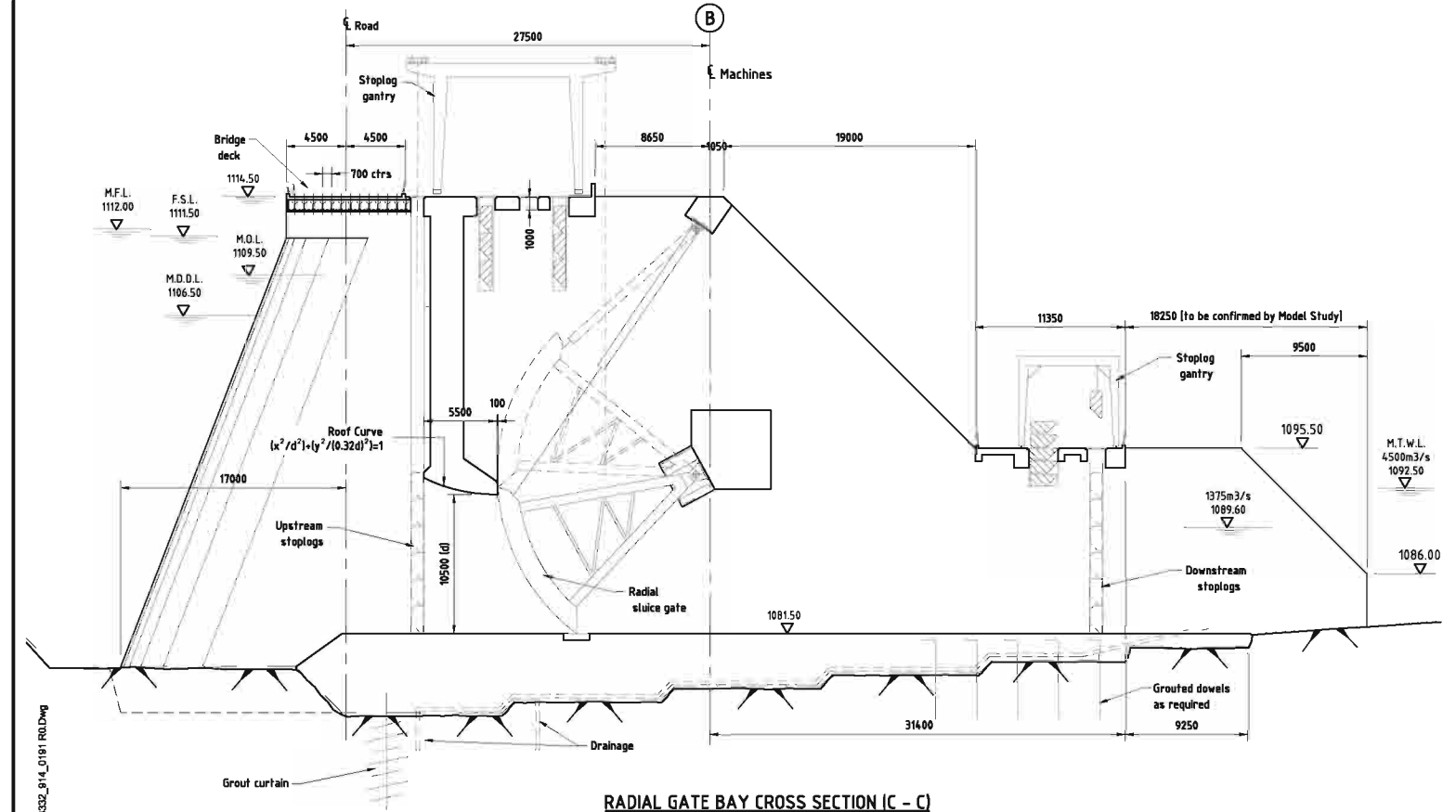
1. All dimensions are in millimeters
2. All levels are in metres
3. For details of Setting Out Points refer to Dwg.No.D103332-914-0104
4. Survey Data
The survey data provided on this drawing is based on the following trig station & bench mark
72X6 BUWENDA N=52304.037m / E=519811.82m
Elevations are based on the following Owen Falls bench mark
BM No: MDE1 el. 1136.25m



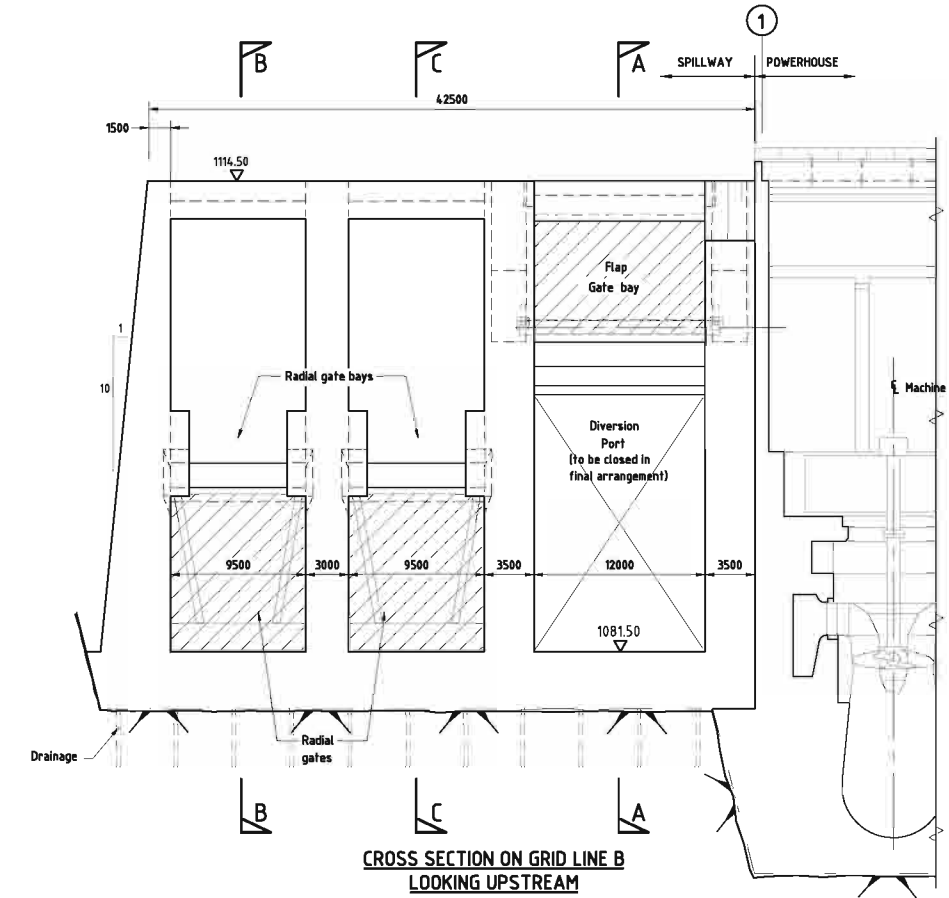
FLAP GATE BAY CROSS SECTION (A - A)



RADIAL GATE BAY CROSS SECTION (B - B)



RADIAL GATE BAY CROSS SECTION (C - C)



CROSS SECTION ON GRID LINE B
LOOKING UPSTREAM

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Issued for TENDER	IMC	TP	19/01/95	0
Revision Details	By	Check	Date	Suffix

Drawing Status
TENDER DRAWING

Job Title
BUJAGALI HYDROPOWER PROJECT

Drawing Title
RADIAL GATE SPILLWAY SECTIONS

Scale at A1 1:250	Drawn TM	Approved AMG
Stage 1 check	Stage 2 check	Original
Date Jan'05		

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Drawing Number
D103332-914-0191

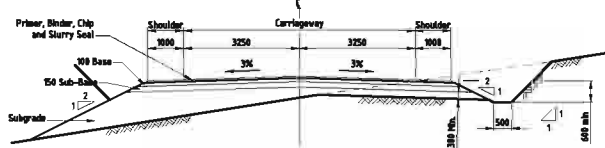
Rev
0

Plot Date :
AutoCAD File Name : D103332_914_0191 RD.Dwg
owner

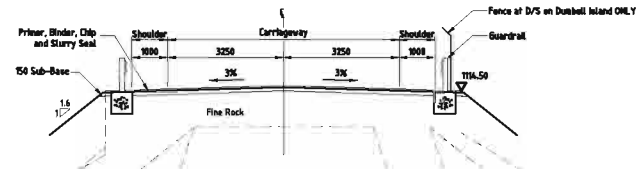


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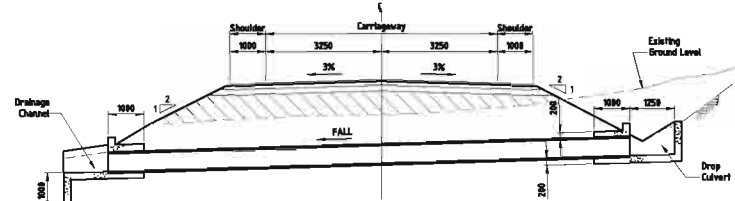
- NOTES:
1. All dimensions are in millimetres.
 2. All levels are in metres
 3. Road signs shall conform to the general specification for road and bridge works as issued by the Ministry of Works, Transport & Communications
 4. Road traffic markings to be in accordance with the general specification for road and bridge works as issued by the Ministry of Works, Transport & Communications. Single continuous lines to be installed at each edge of the carriageway.
 5. Fence and gate to be in accordance with BS.1722 part 10:1999. Fence unless noted otherwise to be 2.3m high, with cranked tops and barbed wire.
 6. Gates to power station and workshop to be 2000 high x 3200 wide leafs. Single leaf only required to bulk fuel oil tank.



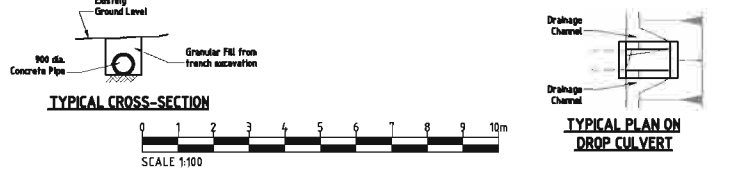
TYPICAL ROAD CROSS-SECTION IN CUT & FILL



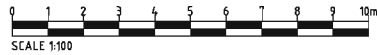
TYPICAL ROAD CROSS-SECTION OVER THE DAM



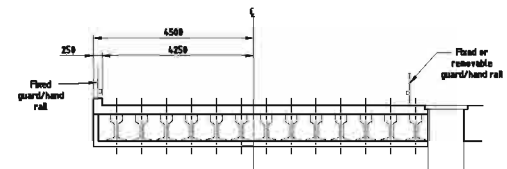
TYPICAL ROAD CROSS-SECTION AT CROSS DRAIN



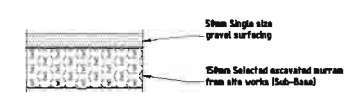
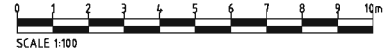
TYPICAL CROSS-SECTION



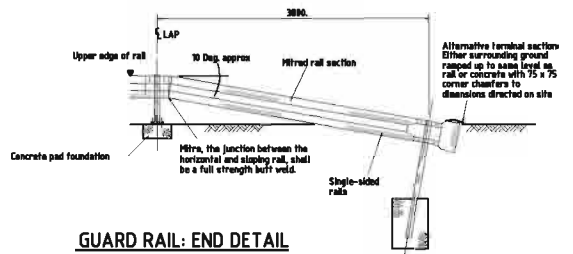
TYPICAL PLAN ON DROP CULVERT



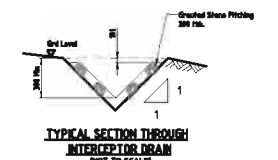
TYPICAL ROAD FURNITURE AT DAM AND OTHER STRUCTURES



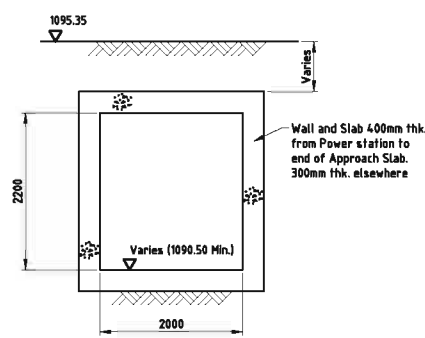
TYPICAL SECTION THROUGH SURFACED AREA AT WORKSHOP & ACCESS ROAD TO BULK FUEL-OIL TANK



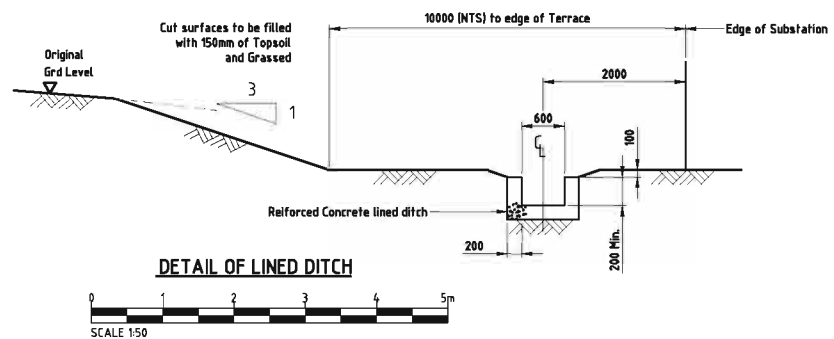
GUARD RAIL: END DETAIL



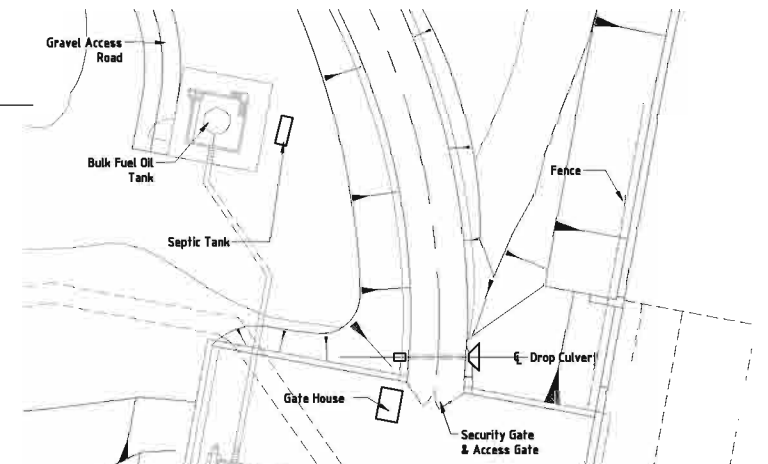
TYPICAL SECTION THROUGH INTERCEPTOR DRAIN



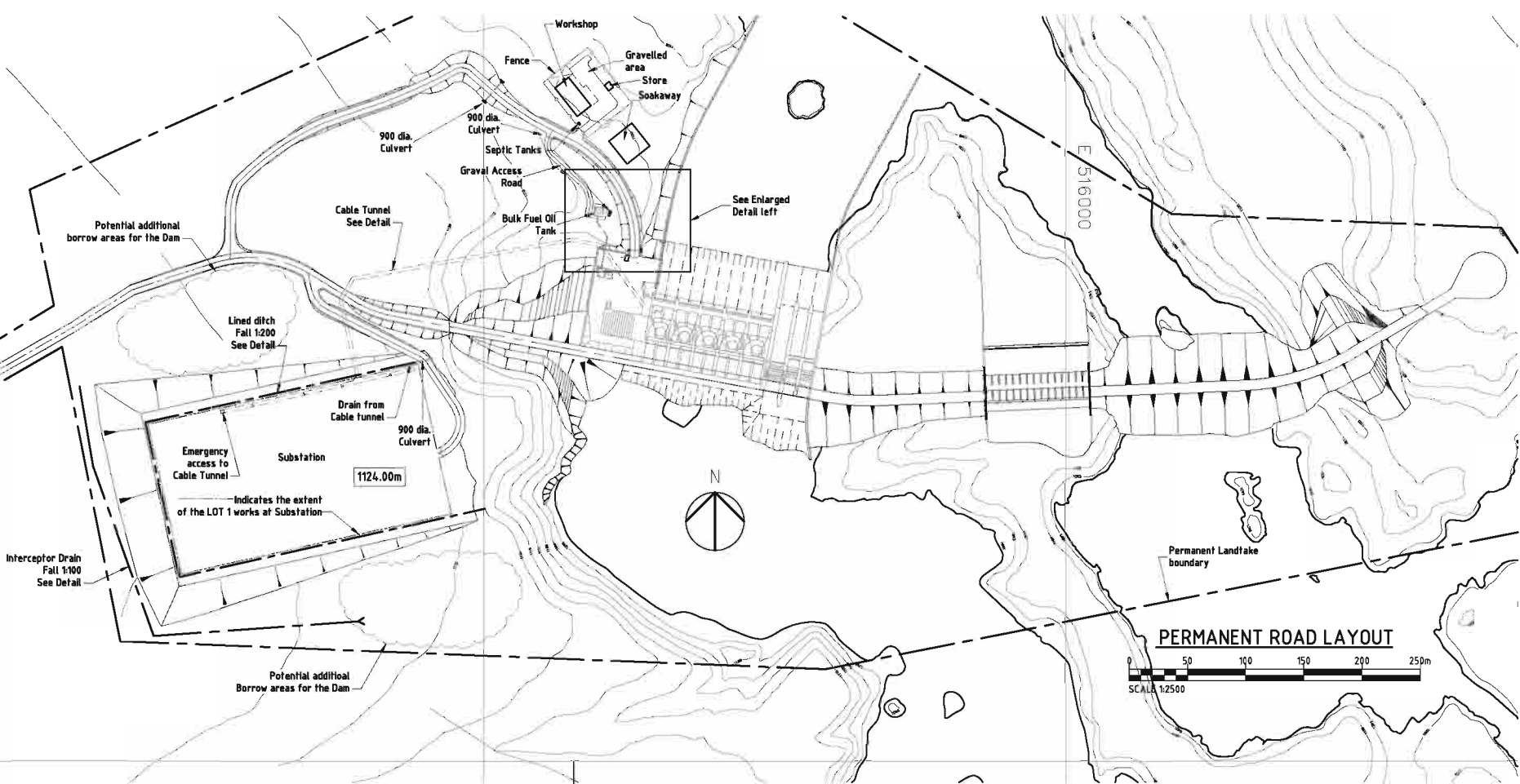
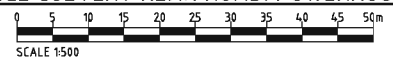
TYPICAL DETAILS OF CABLE TUNNEL



DETAIL OF LINED DITCH



DETAIL OF DRAINAGE CULVERT NEAR ROAD/POWERHOUSE INTERFACE



PERMANENT ROAD LAYOUT



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Issued for TENDER	KCP	19/01/05	0
Revision Details	By	Date	Suffix
Drawing Status	Check		
TENDER DRAWING			
Job Title			
BUJAGALI HYDROPOWER PROJECT			
Drawing Title			
INFRASTRUCTURE			
LAYOUT OF ROADS/FENCES AND DETAILS			
Scale at A1			
1:2500 1:500 1:100 1:50			
Drawn	KCP	Approved	AMG
Stage 1 check	Stage 2 check	Original	Date
			Jan'05
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Kearthick Road, Ashford			
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Scott Wilson Piesold			
Drawing Number			
D103332-914-0200			
Rev			
0			