

ATTACHMENT 10

LTWP Preliminary Design Report – Appendix A - Drawings

ISSUED FOR
PRELIMINARY
DESIGN -
(REVISED)
SEPTEMBER 26, 2025

LONG TERM WATER PROGRAM
RAW WATER SUPPLY AND STORAGE
CITY OF IQALUIT



Iqaluit

1085 Mivvik Street, P.O. Box 460
Iqaluit NU X0A 0H0 Canada
tel 867 979 5600
www.iqaluit.ca

PRELIMINARY
NOT FOR CONSTRUCTION

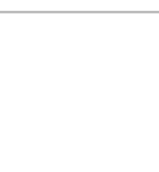
C	ISSUED FOR PRELIMINARY DESIGN - (REVISED)	2025-09-26
B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date
Consultant		
 ARCADIS 8233 Vander Draven Court, Suite 300 Richmond Hill, ON L4B 3G6 Canada tel 905 768 9380 www.arcadis.com		
Project title		
IQALUIT LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE		
Designed by O.N.		
Drawn by A.V.		
Approved by M.J.		
Project Manager C.G.		
Drawing title		
GENERAL COVER PAGE		
Project no.	Drawing no.	Revision no.
30288139	G000	C



LIST OF GENERAL DRAWINGS	
DRAWING No.	DRAWING TITLE
G000	COVER PAGE
G001	INDEX SHEET - 1
G002	INDEX SHEET - 2
G101	OVERALL SITE PLAN
G601	WATER SYSTEM SCHEMATIC

LIST OF CIVIL DRAWINGS	
	DESCRIPTION
C101	PUMP STATION - SITE PLAN
C201	PUMP STATION - INTAKE
C202	CONNECTION BETWEEN RESERVOIR AND LAKE GERALDINE
C203	PUMP STATION SITE PLAN SECTIONS
C301	RESERVOIR SYSTEM PLAN VIEW
C302	DAM 1 PLAN VIEW
C303	DAM 1 CROSS-SECTIONS (1)
C304	DAM 1 CROSS-SECTIONS (2)
C305	DYKES 2 AND 3 PLAN VIEW
C306	DYKES 2 AND 3 CROSS-SECTIONS
C307	DYKES 4 AND 5 PLAN VIEW
C308	DYKES 4 AND 5 CROSS-SECTIONS
C309	DYKE 6 PLAN VIEW
C310	DYKE 6 CROSS-SECTIONS
C311	DYKE 7 (SPILLWAY) PLAN VIEW
C312	LONG SECTIONS
C313	DYKE 8 PLAN VIEW
C314	DYKE 8 CROSS-SECTIONS
C315	RESERVOIR LONG CROSS-SECTION A-A'
C316	RESERVOIR LONG CROSS-SECTION B-B'
C317	RESERVOIR LONG CROSS-SECTION C-C'
C318	RESERVOIR LONG CROSS-SECTION D-D'
C319	RING ROAD PLAN
C320	ACCESS ROAD PLAN
C1102	AR PUMP STATION - SITE PLAN
C1204	AR PUMP STATION - SITE PLAN SECTIONS
C1205	AR PUMP STATION - INTAKE

[illegible][illegible][illegible][illegible][illegible]



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ARCADIS

8133 Warden Avenue - Unit 300
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Project title

IQALUIT

LONG TERM WATER PROGRAM

RAW WATER SUPPLY AND STORAGE

Designed by A.V.	
Drawn by A.V.	
Approved by M.J.	
Project Manager C.G.	

Drawing title

GENERAL

INDEX SHEET - 1

Project no. 30288139	Drawing no. G001	Revision no. C
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LIST OF ELECTRICAL DRAWINGS

[illegible]

LIST OF INSTRUMENTATION DRAWINGS

[illegible]

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Consultant



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Project title	
---------------	--

**IQALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by

A.V.

Drawn by

A.V.

Approved by

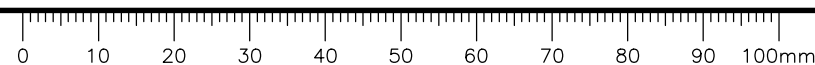
M.J.

Project Manager

Drawing title

**GENERAL
INDEX SHEET - 2**

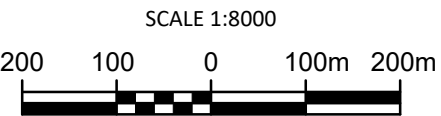
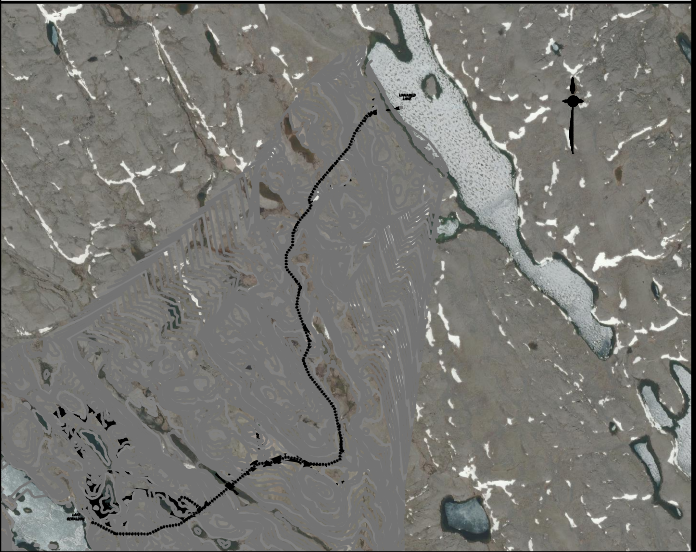
Project no.	Drawing no.	Revision no.
30288139	G002	C





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C	ISSUED FOR PRELIMINARY DESIGN (REVISED)	2025-09-26
B	ISSUED FOR PRELIMINARY DESIGN	2024-03-08
A	ISSUED FOR CONCEPT DESIGN	2023-11-27

Consultant

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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
O.N.

Drawn by
N.V.

Approved by
G.G.

Project Manager
C.G.

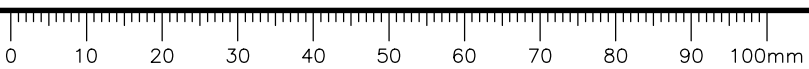
Drawing title

**GENERAL
OVERALL SITE PLAN**

Project no.	Drawing no.	Revision no.
30192375	G101	C



C:\Users\jagip\3339\DC\Access\IBI - DT Services\30192375-Iqaluit-LongTermWater-C302023\Project_Files\7.0_Production\7.03_Design\04_Civil\Sheets\G101.dwg



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NOTES:
1. REFER TO UTILITY DRAWINGS FOR
RAW WATERMAINS PLAN AND PROFILES.

B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date

Consultant

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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
A.P.

Drawn by
L.E.

Approved by
P.D.

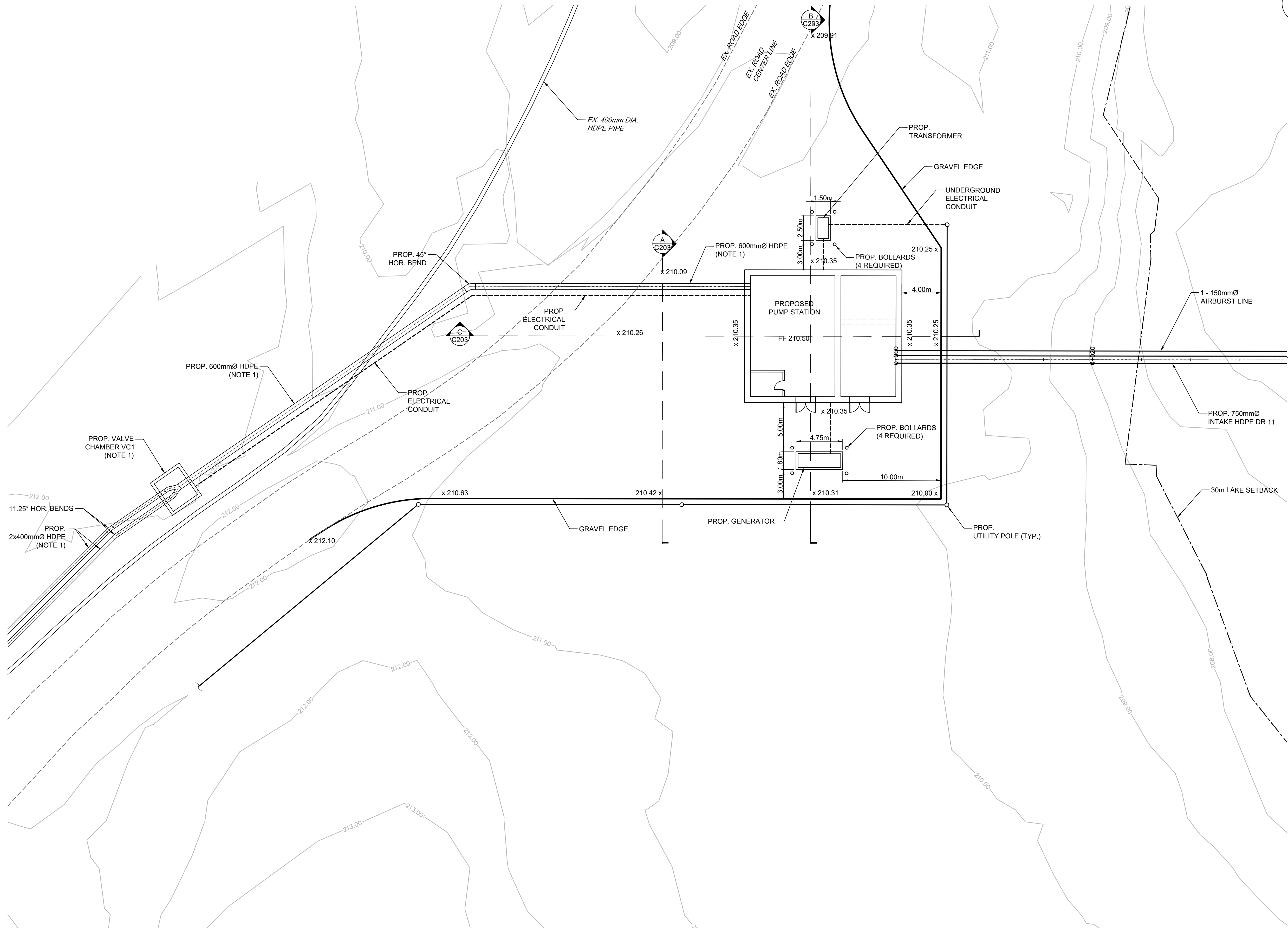
Project Manager
C.G.

Drawing title

CIVIL

**PUMP STATION
SITE PLAN**

Project no.	Drawing no.	Revision no.
30192375	C101	B

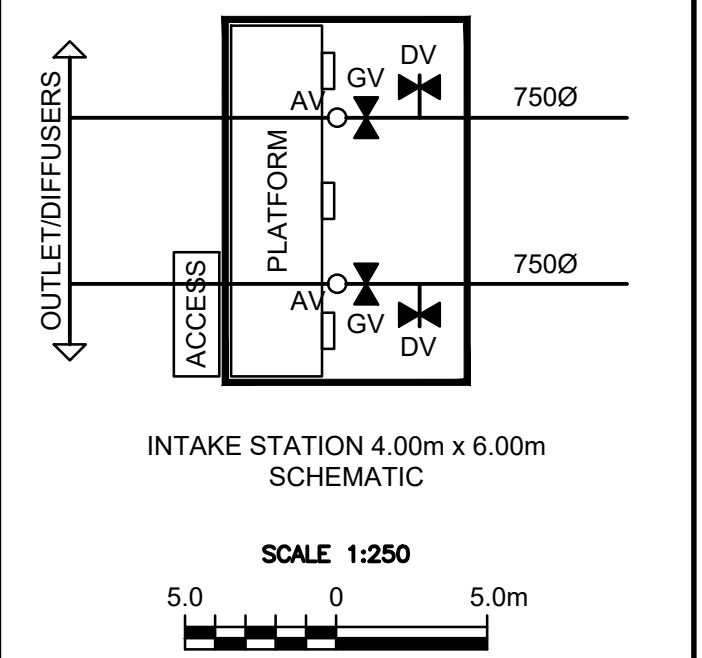
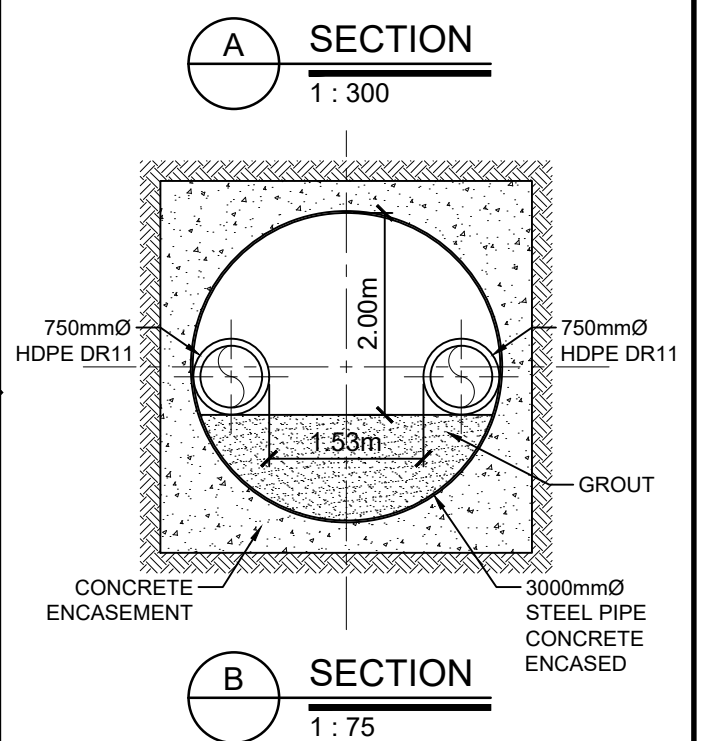
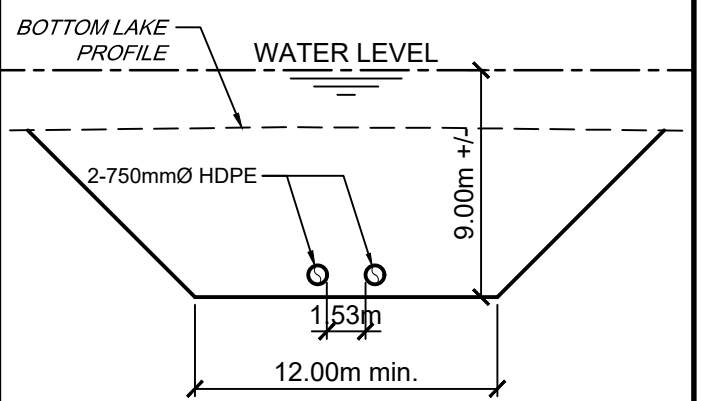


A Site Plan
C101 1:200



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B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
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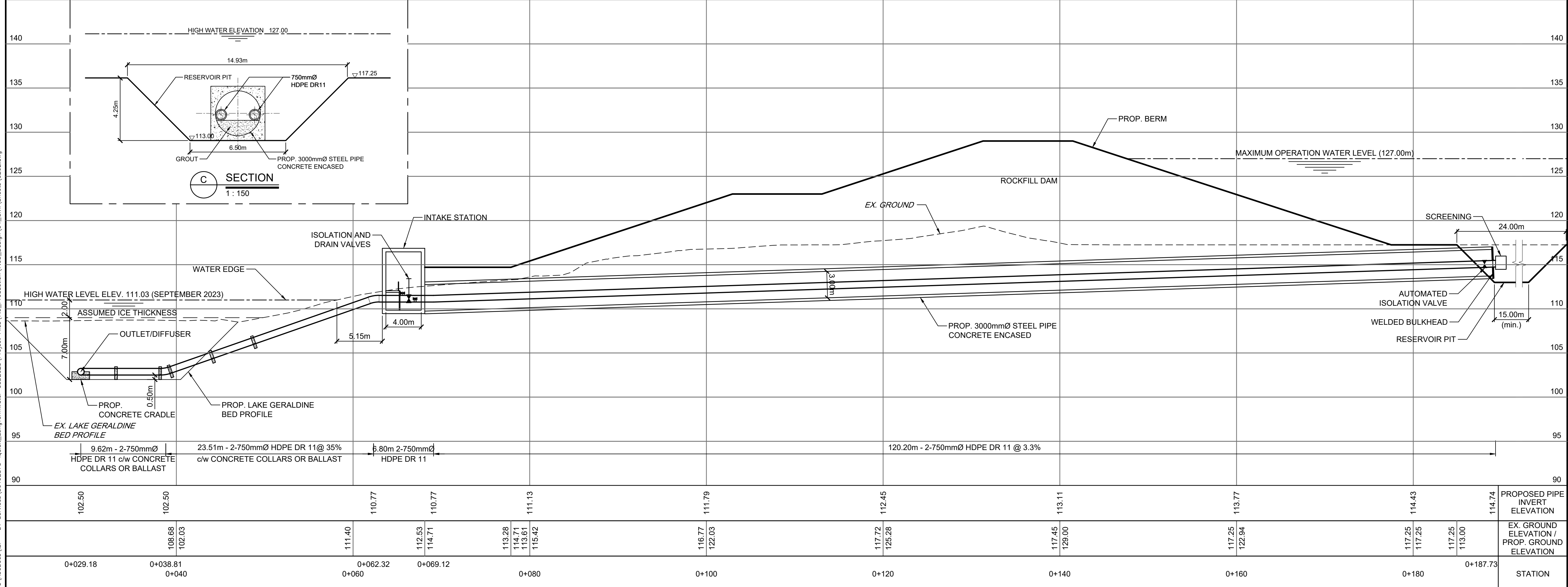
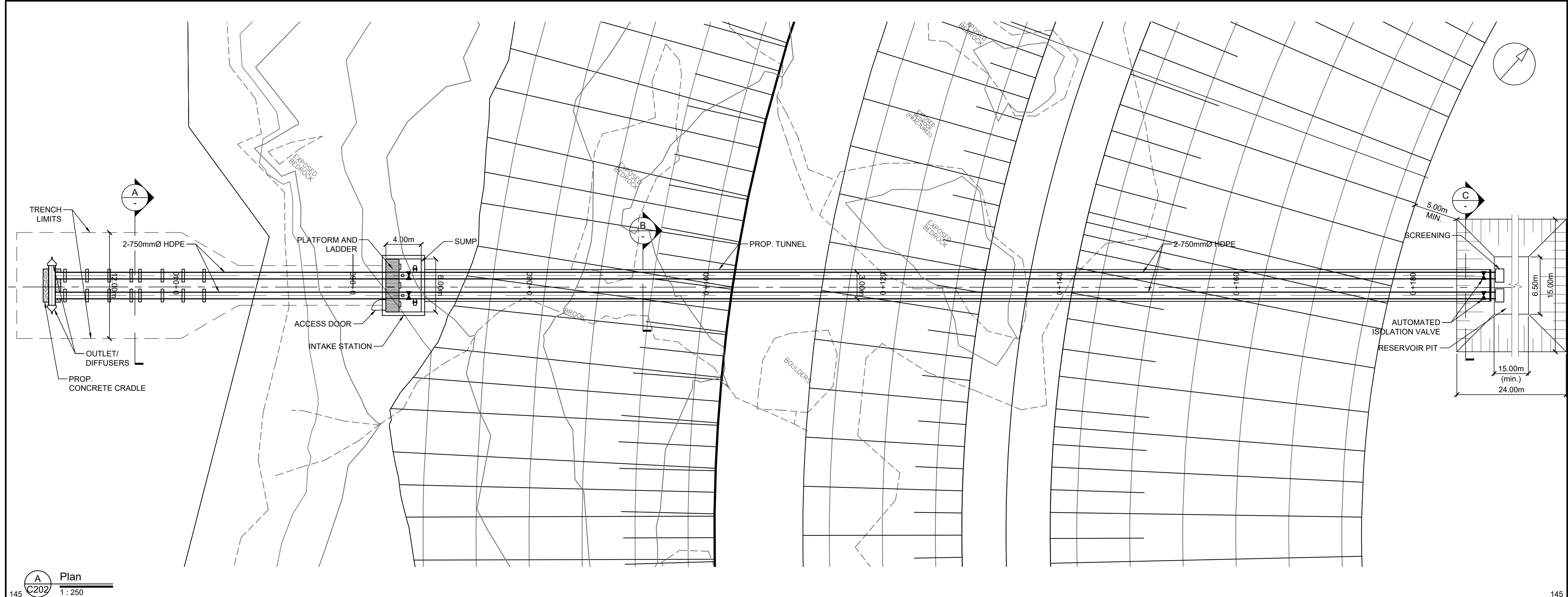
Project title
**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
O.N.
Drawn by
L.E.
Approved by
G.G.

Project Manager
C.G.

Drawing title
CIVIL
**SERVICE CORRIDOR BETWEEN
RESERVOIR AND LAKE GERALDINE**

Project no.
30192375
Drawing no.
C202
Revision no.
B

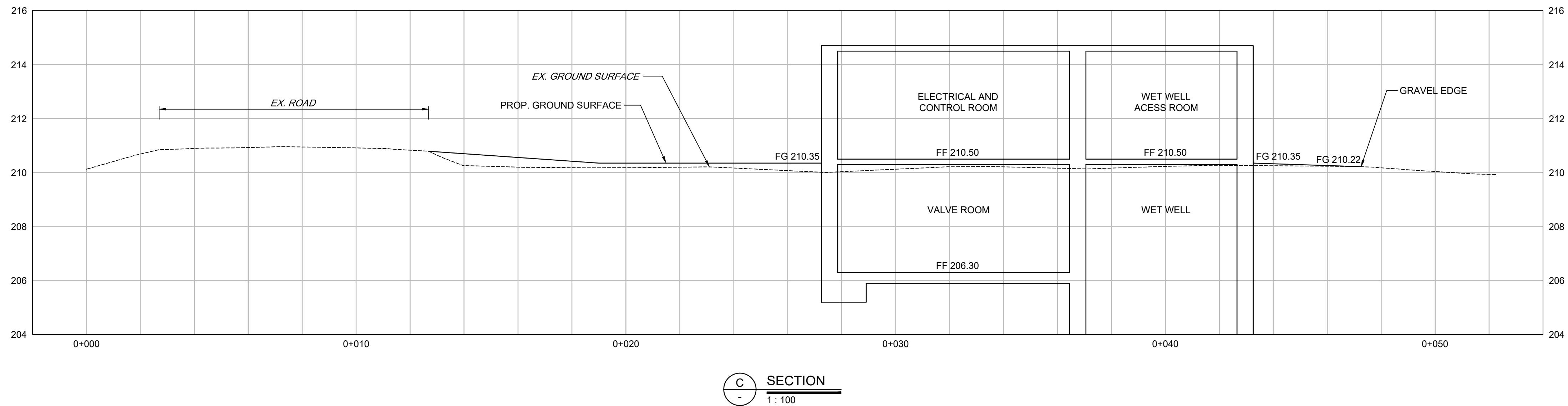
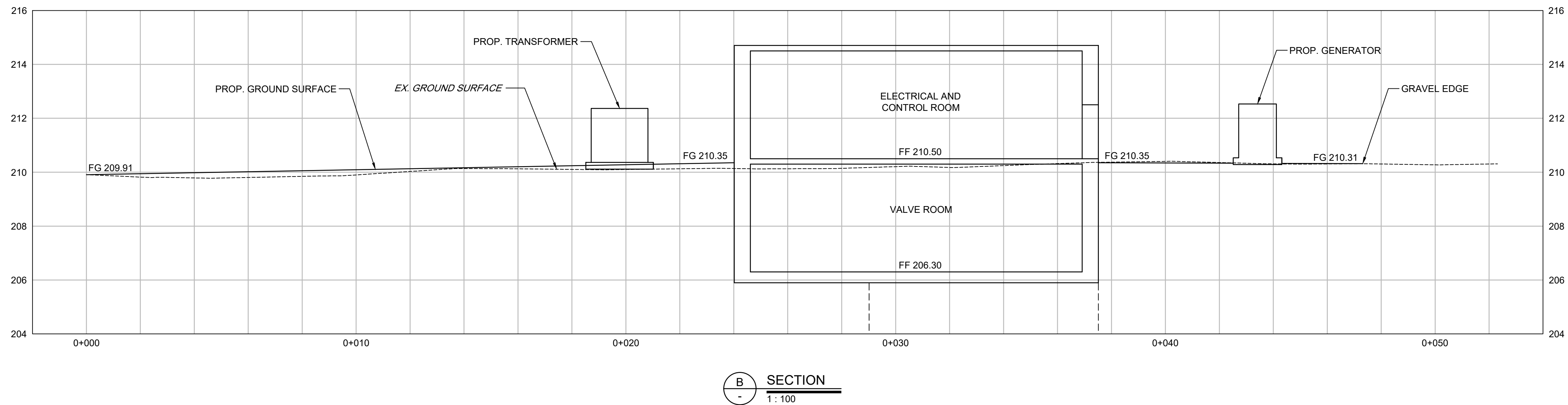
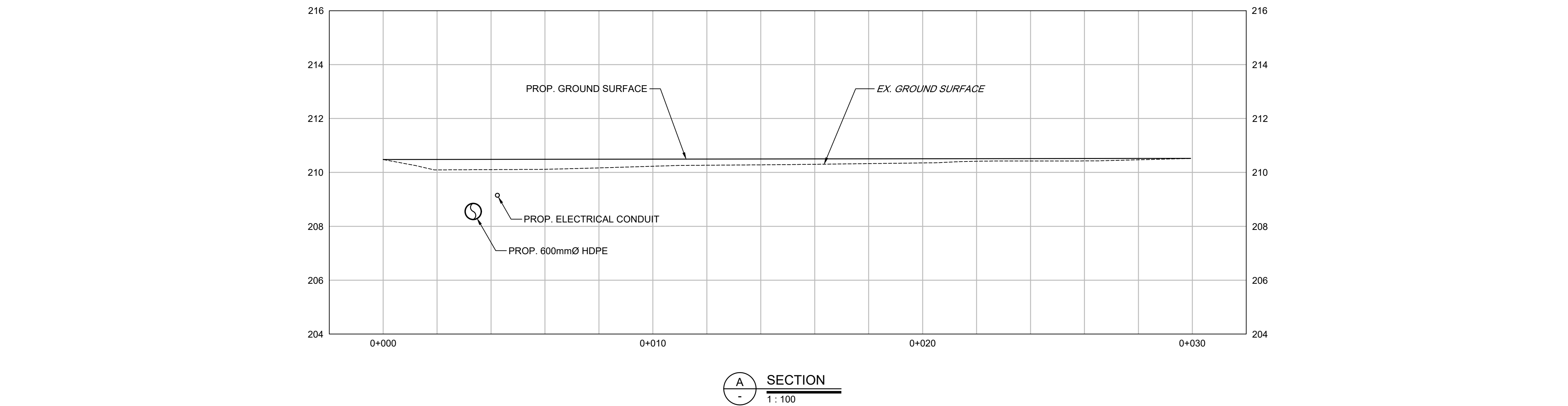


STATION	EX. GROUND ELEVATION / PROP. GROUND ELEVATION	PROPOSED PIPE INVERT ELEVATION
0+029.18	102.50	102.50
0+038.81	108.68	102.03
0+040	111.40	111.40
0+062.32	112.53	112.53
0+069.12	114.71	114.71
0+080	113.28	113.61
0+100	115.42	115.42
0+120	116.77	122.03
0+140	117.72	125.28
0+160	117.45	129.00
0+180	117.25	122.94
0+187.73	117.25	113.00



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A	ISSUED FOR PRELIMINARY DESIGN	2024-03-22

Consultant

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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
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Designed by
A.P.

Drawn by
L.E.

Approved by
P.D.

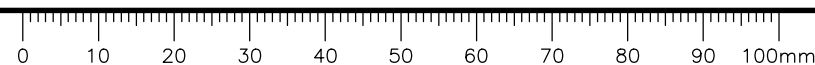
Project Manager
C.G.

Drawing title

CIVIL

**PUMP STATION
SITE PLAN SECTIONS**

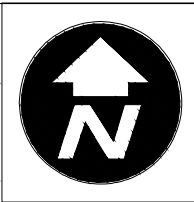
Project no.	Drawing no.	Revision no.
30192375	C203	A



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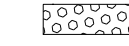
RESERVOIR SYSTEM PLAN VIEW
Scale 1:2000 @ A1



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LEGEND	
PATTERN	DETAIL
	CUTTING
	FILLING
	RIPRAP
	10m BUFFER ZONE
	WETTED AREA OF RESERVOIR
	DAM CREST

Revision	Description	Date
B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27

Consultant



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Project title

CITY OF IQALUIT

LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

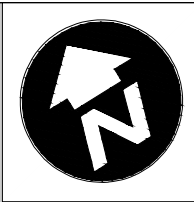
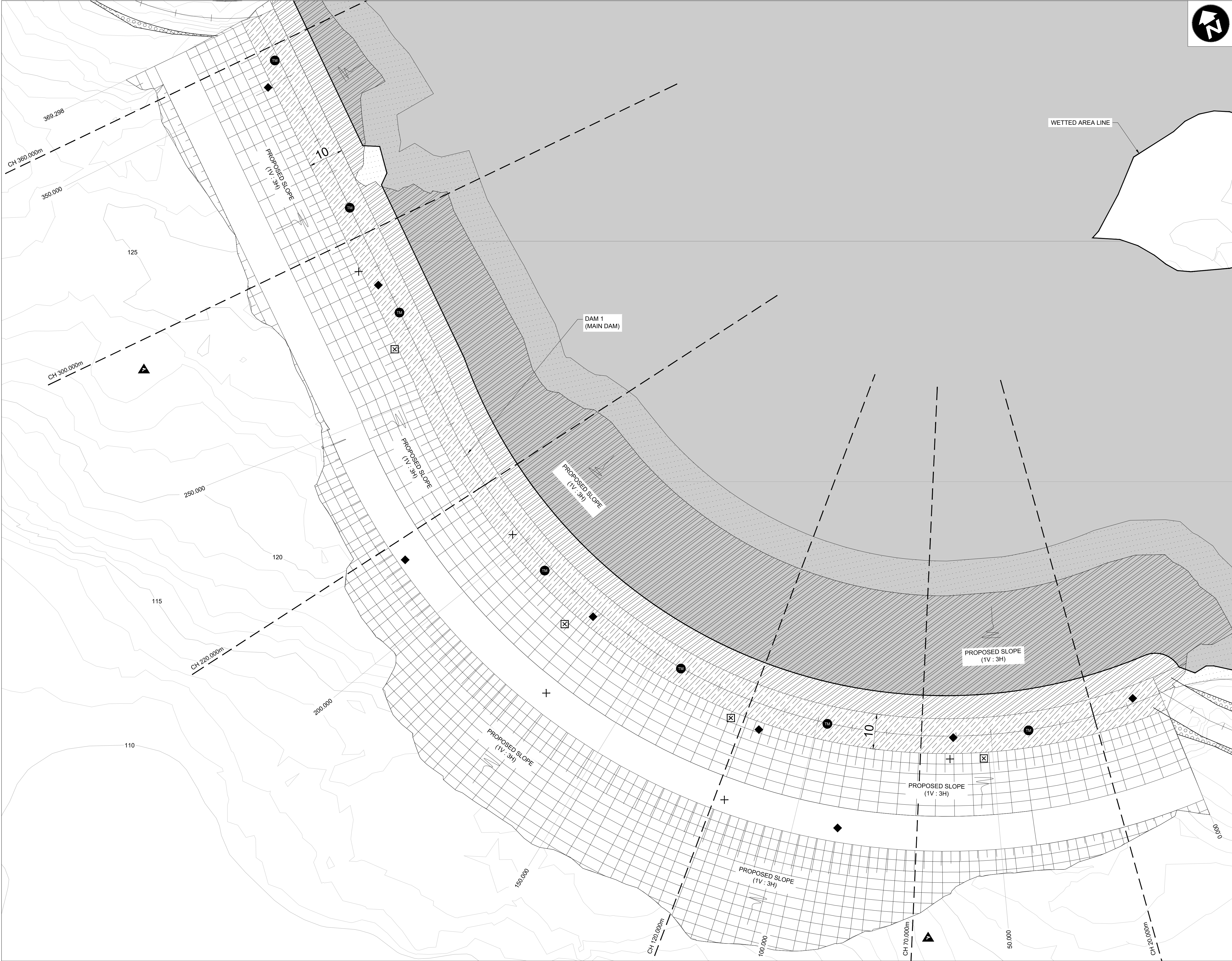
Project Manager
C.G.

Drawing title

CIVIL

RESERVOIR SYSTEM PLAN VIEW

Project no.	Drawing no.	Revision no.
30192375	C301	B



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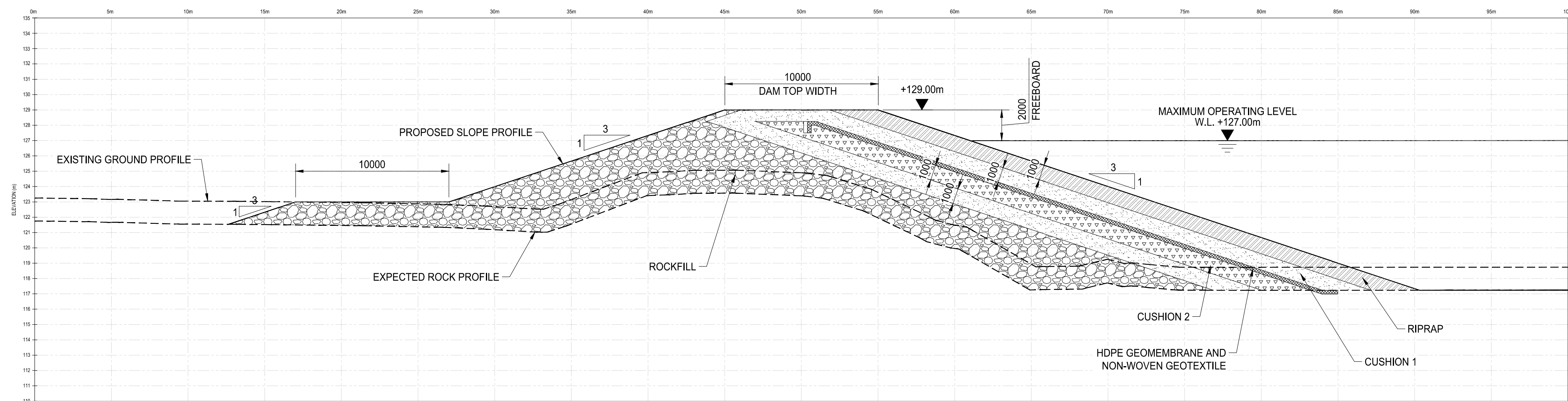
LEGEND	
PATTERN	DETAIL
	DAM CREST
	CUTTING
	FILLING
	RIPRAP
	10m BUFFER ZONE
	WETTED AREA OF RESERVOIR
	SURVEY CONTROL MONUMENT
	THERMISTOR
	PIEZOMETER
	INCLINOMETER
	REMOTE CAMERA
	STAFF GUAGE

A	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
Revision	Description	Date
Consultant		
121 Granton Drive, Suite 12 Richmond Hill ON L4B 3N4 Canada tel 905 764 9380 www.arcadis.com		
Project title		
CITY OF IQALUIT		
LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE		
Designed by R.J.		
Drawn by A.A.		
Approved by E.L.		
Project Manager C.G.		
Drawing title		
CIVIL		
DAM 1 PLAN VIEW		
Project no.	Drawing no.	Revision no.
30192375	C302	A

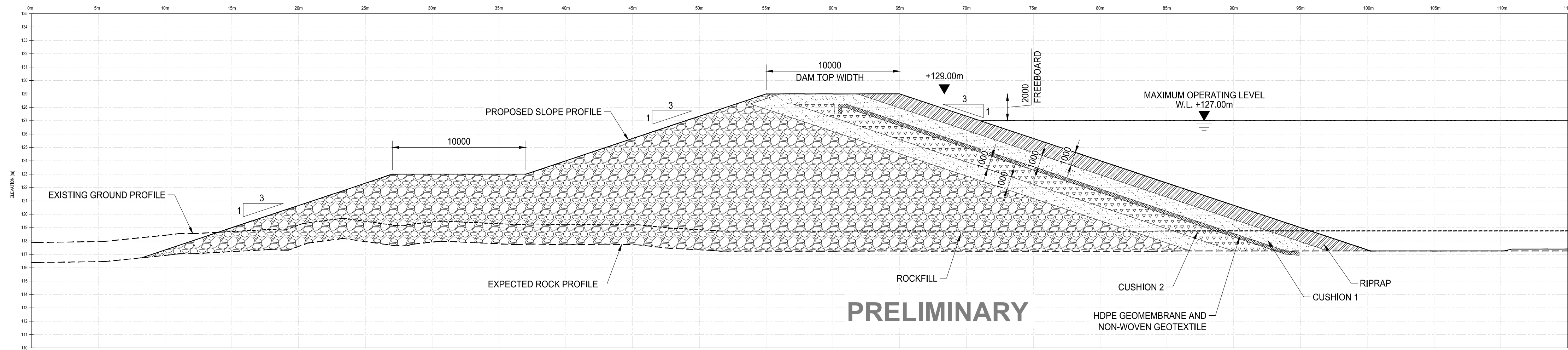


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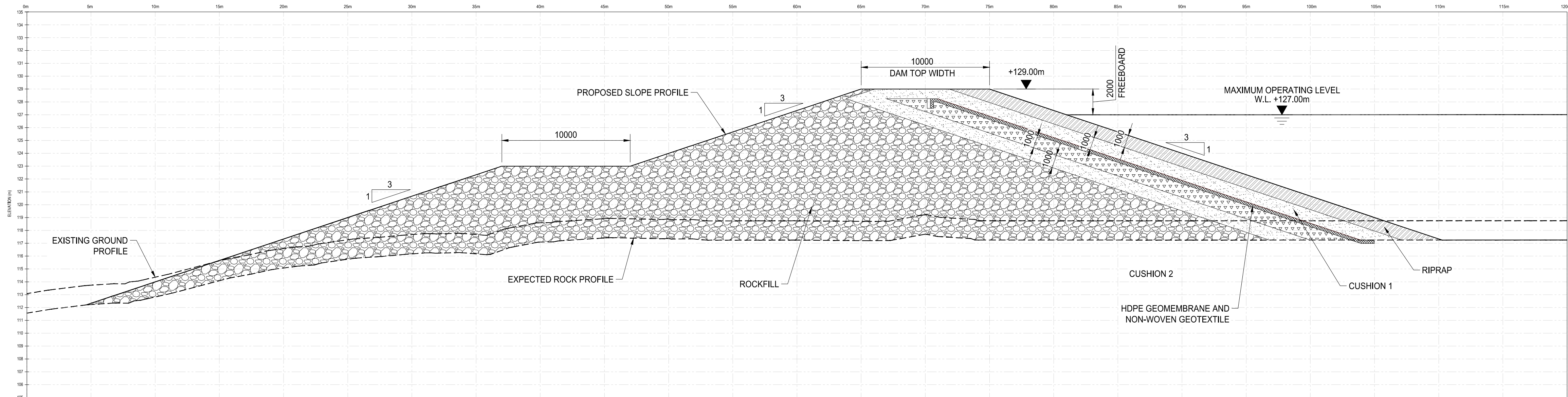
PRELIMINARY
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GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.20 (DAM 1)
Scale 1:200



GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.70 (DAM 1)
Scale 1:200



GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.120 (DAM 1)
Scale 1:200

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP



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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
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Designed by

R.J.

Drawn by

A.A.

Approved by

E.L.

Project Manager

C.G.

Drawing title

CIVIL

DAM 1 CROSS-SECTIONS (1)

Project no.

30192375

Drawing no.

C303

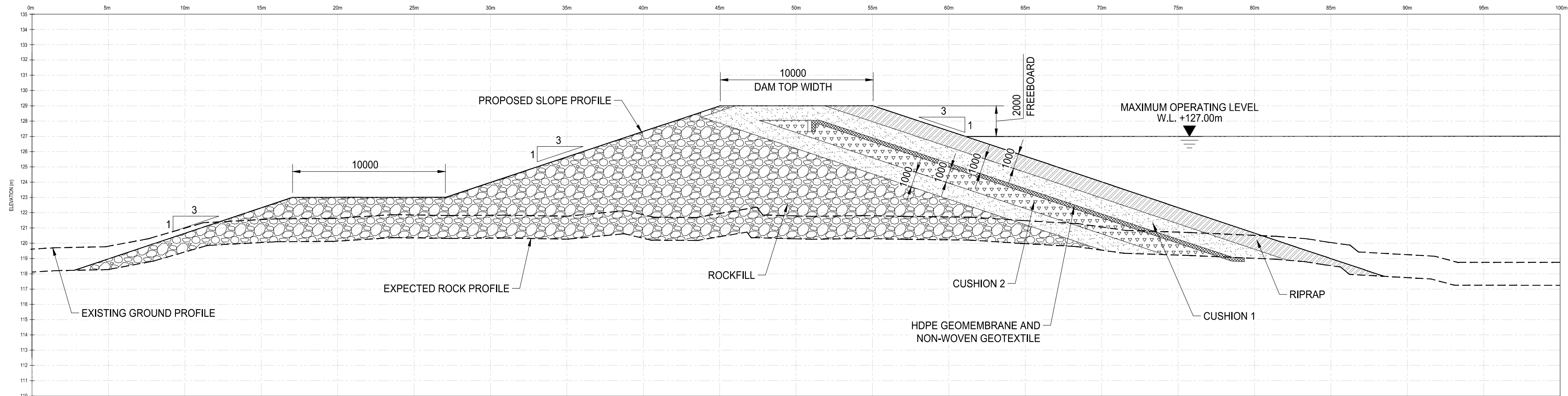
Revision no.

B



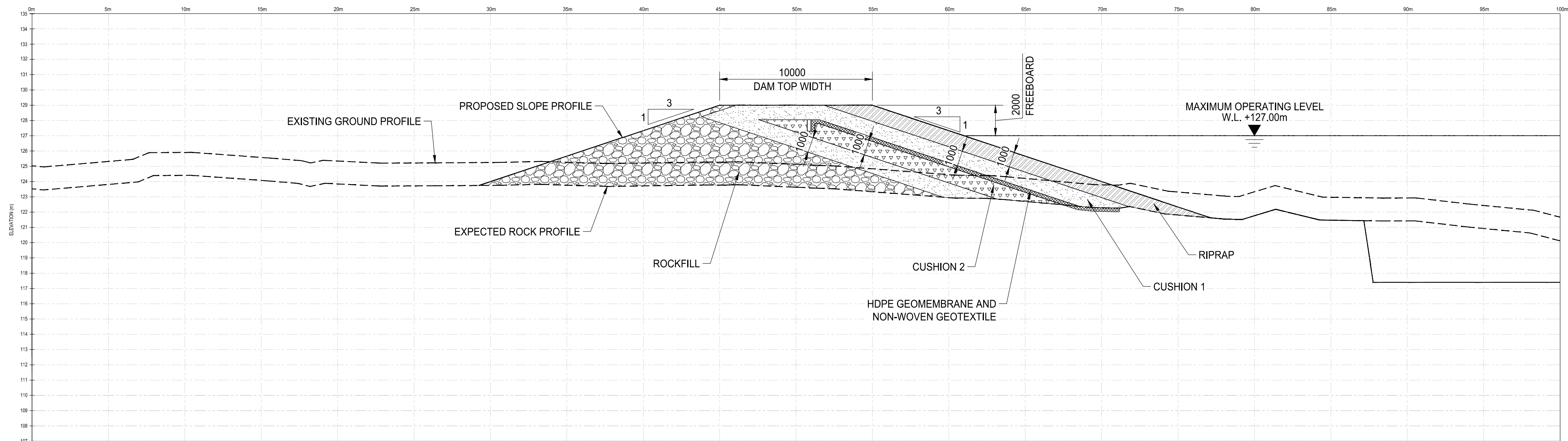
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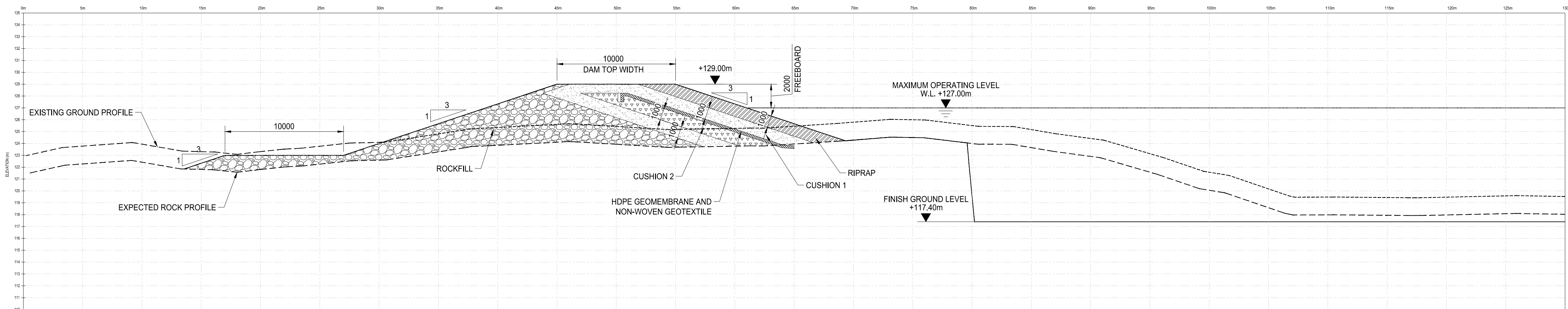
GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.220 (DAM 1)

Scale 1:200



GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.300 (DAM 1)

Scale 1:200



GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.360 (DAM 1)

Scale 1:200

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP



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Project title

LONG TERM WATER PROGRAM
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Designed by

R.J.

Drawn by

A.A.

Approved by

E.L.

Project Manager

C.G.

Drawing title

CIVIL

DAM 1 CROSS-SECTIONS (2)

Project no.

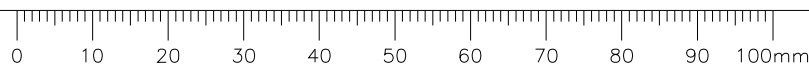
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Drawing no.

C304

Revision no.

B

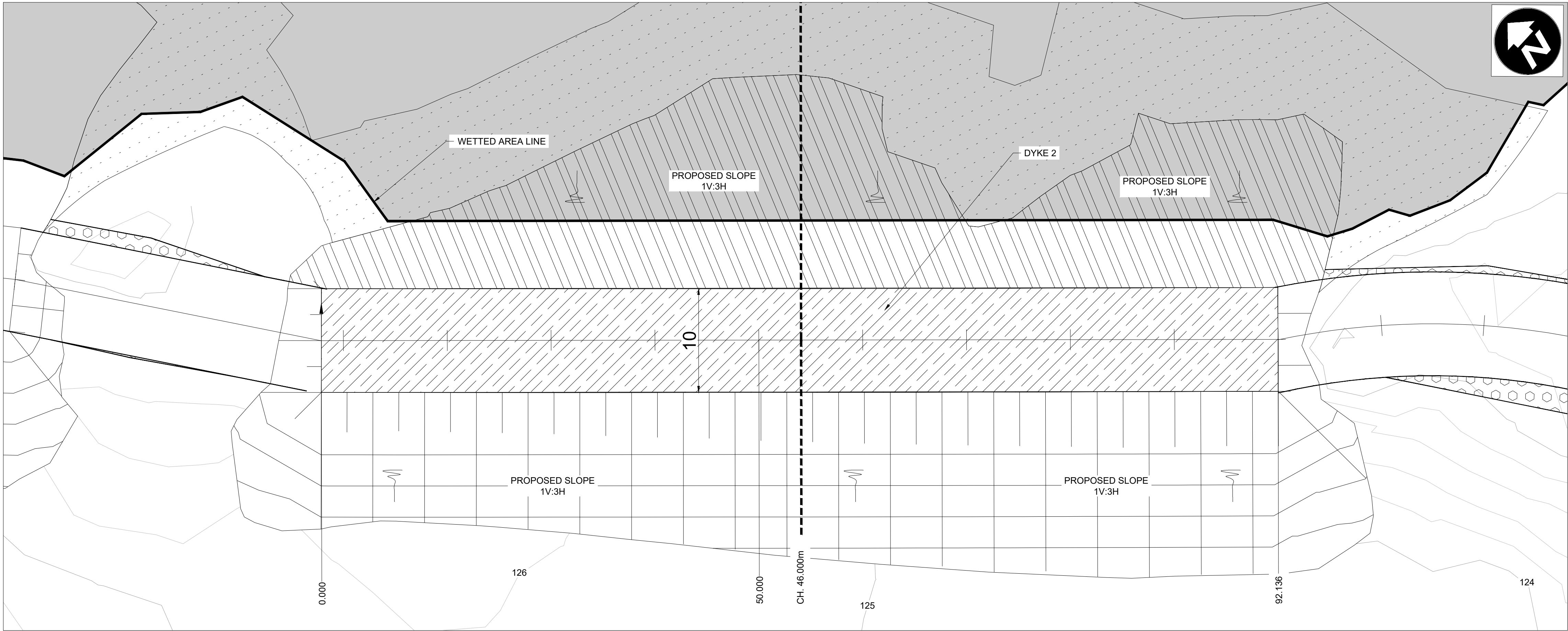




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LEGEND	
PATTERN	DETAIL
	CUTTING
	FILLING
	RIPRAP
	10m BUFFER ZONE
	WETTED AREA OF RESERVOIR



DYKE 2 PLAN
SCALE 1:250



DYKE 3 PLAN
SCALE 1:250

Revision	Description	Date
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Consultant

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CITY OF IQALUIT

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RAW WATER SUPPLY
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R.J.

Drawn by
A.A.

Approved by
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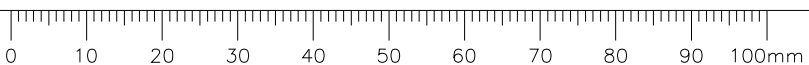
Project Manager
C.G.

Drawing title

CIVIL

DYKES 2 & 3 PLAN VIEW

Project no.	Drawing no.	Revision no.
30192375	C305	A



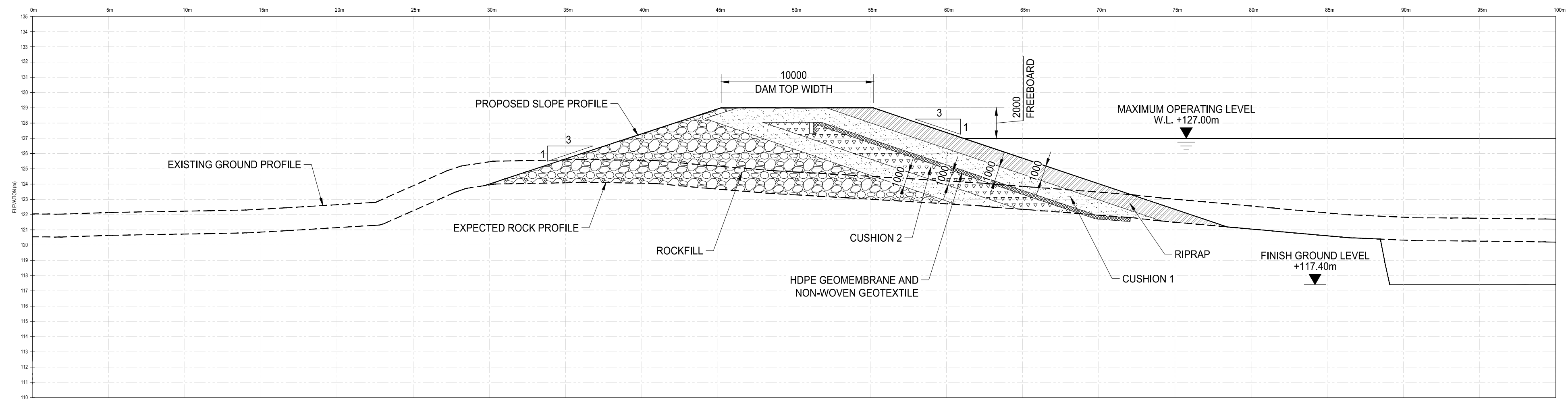
LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

Designed by R.J.
Drawn by A.A.
Approved by E.L.
Project Manager C.G.

CIVIL

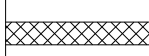
DYKES 2 AND 3 CROSS-SECTIONS

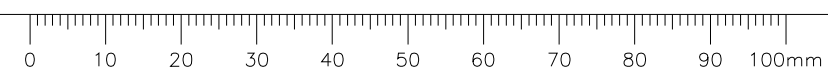
Project no.	Drawing no.	Revision no.
30192375	C306	B



GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.42 (DYKE 3)

Scale 1:200

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP

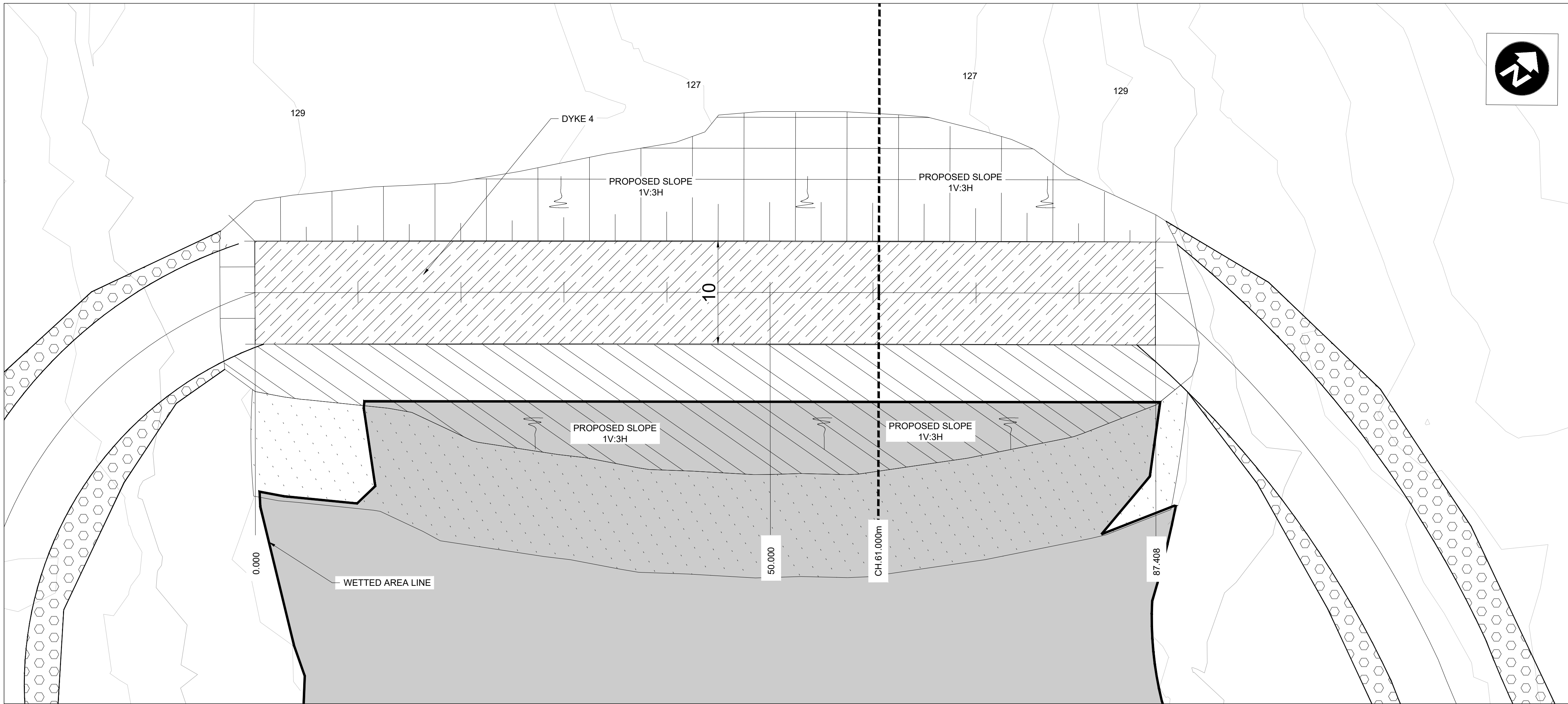




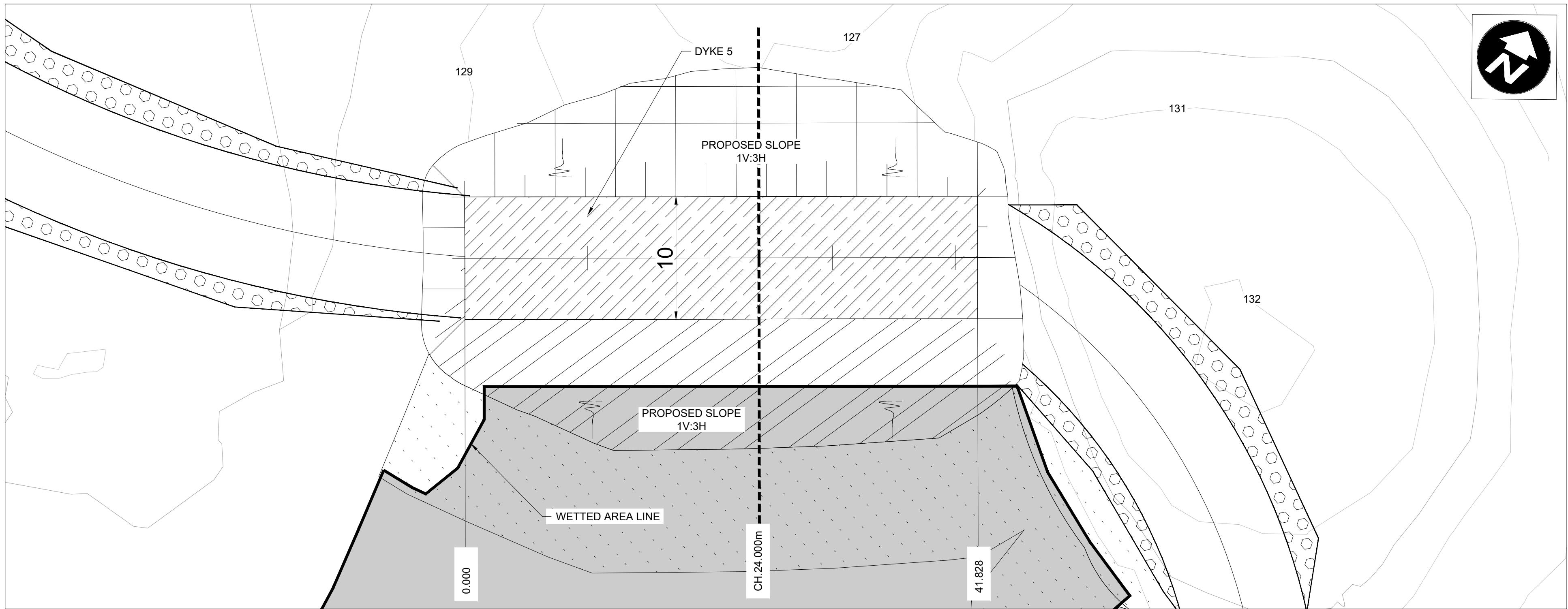
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PRELIMINARY
NOT FOR CONSTRUCTION

LEGEND	
PATTERN	DETAIL
	CUTTING
	FILLING
	RIPRAP
	10m BUFFER ZONE
	WETTED AREA OF RESERVOIR
	DAM CREST



DYKE 4 PLAN VIEW
Scale 1:250 @ A1



DYKE 5 PLAN VIEW
Scale 1:250 @ A1

Revision	Description	Date
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A		
ISSUED FOR PRELIMINARY DESIGN		
2023-03-22		

Consultant		
------------	--	--

CITY OF IQALUIT		
-----------------	--	--

LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE		
--	--	--

Designed by R.J.		
---------------------	--	--

Drawn by A.A.		
------------------	--	--

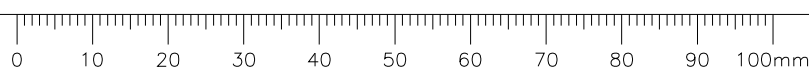
Approved by E.L.		
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Project Manager C.G.		
-------------------------	--	--

Drawing title CIVIL		
------------------------	--	--

DYKES 4 & 5 PLAN VIEW		
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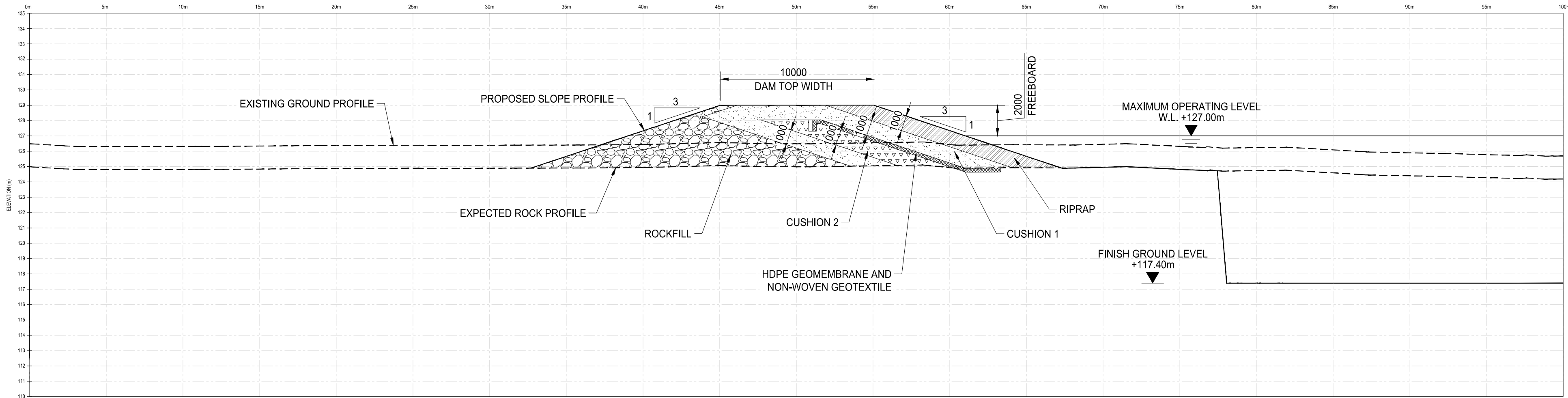
Project no.	Drawing no.	Revision no.
30192375	C307	A



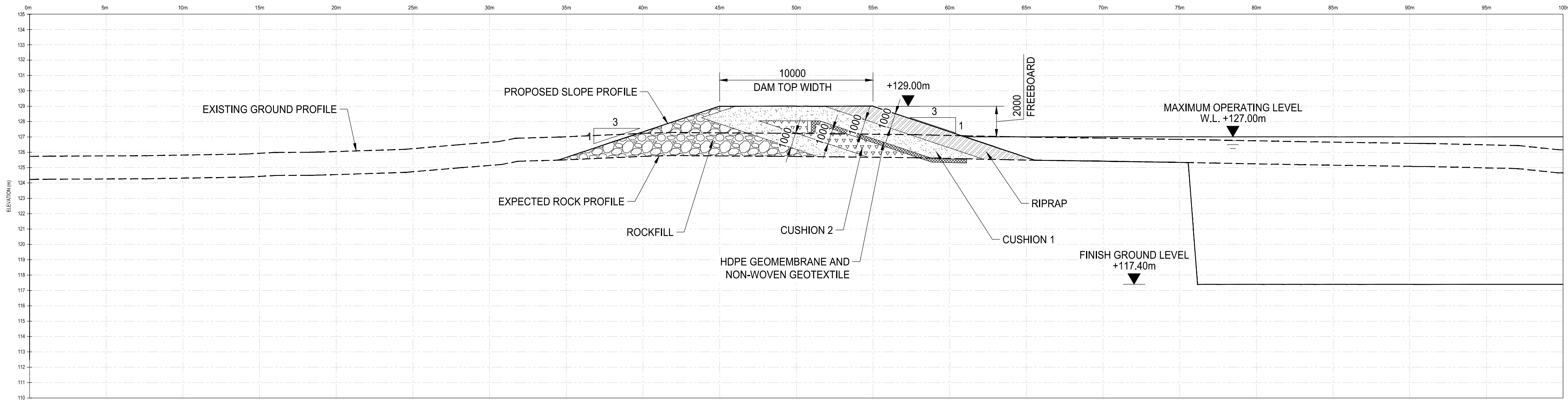


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GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.61 (DYKE 4)
Scale 1:200



GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.24 (DYKE 5)
Scale 1:200

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP



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LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by
R.J.
Drawn by
A.A.
Approved by
E.L.
Project Manager
C.G.

Drawing title
CIVIL
DYKES 4 AND 5 CROSS-SECTIONS

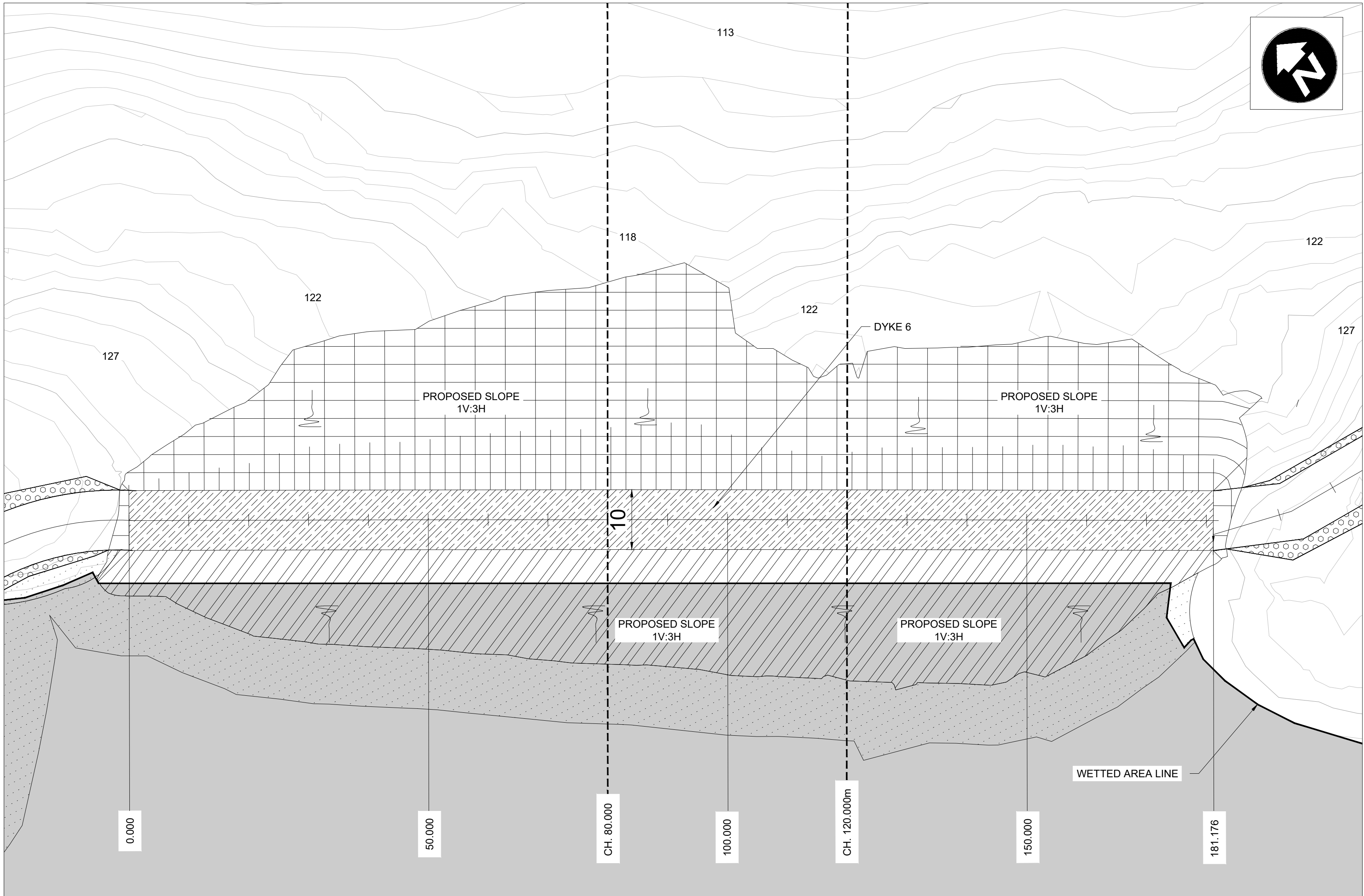
Project no. 30192375	Drawing no. C308	Revision no. B
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LEGEND	
PATTERN	DETAIL
	CUTTING
	FILLING
	RIPRAP
	10m BUFFER ZONE
	WETTED AREA OF RESERVOIR
	DAM CREST



DYKE 6 PLAN VIEW
Scale 1:500 @ A1

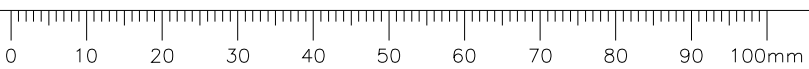
A	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
Revision	Description	Date
Consultant		



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Richmond Hill ON L4B 3N4 Canada
tel 905 764 9380
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Project title CITY OF IQALUIT		
LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE		
Designed by R.J.		
Drawn by A.A.		
Approved by E.L.		
Project Manager C.G.		
Drawing title CIVIL DYKE 6 PLAN VIEW		

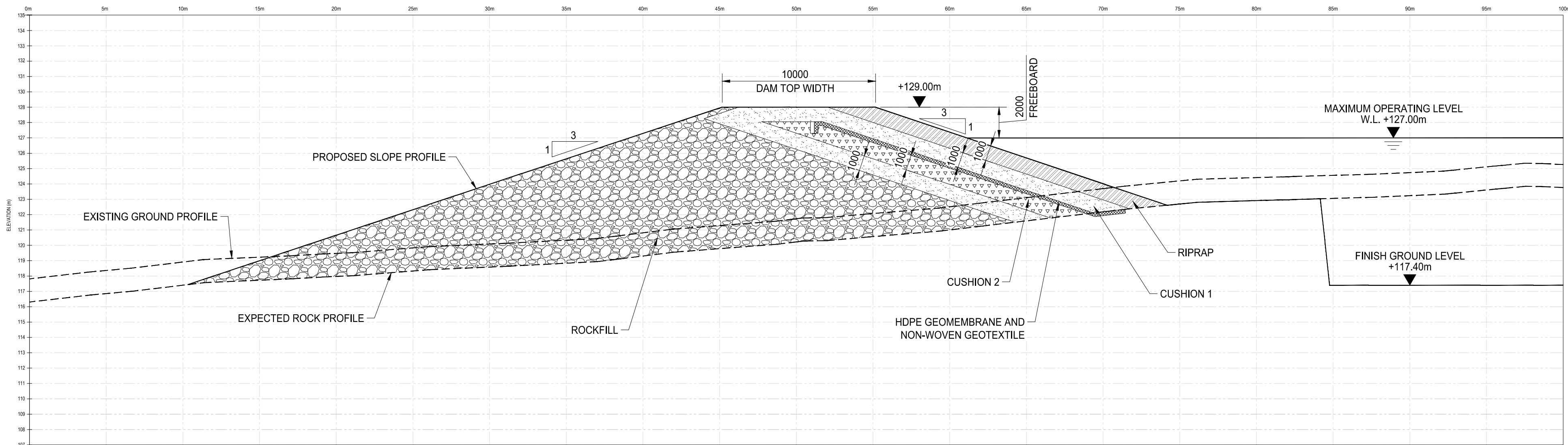
Project no. 30192375	Drawing no. C309	Revision no. A
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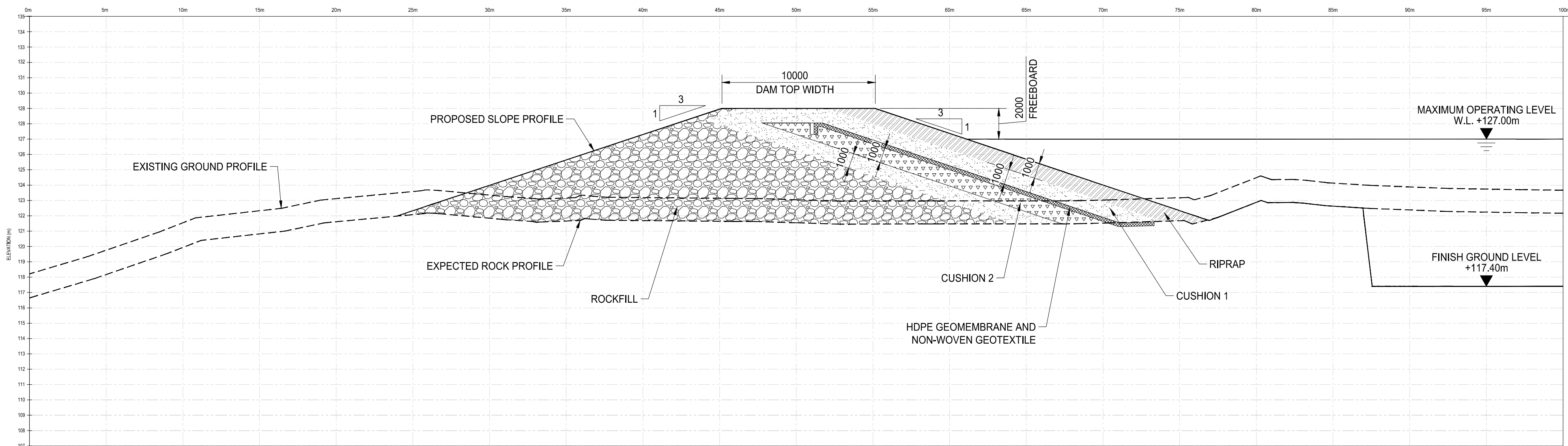


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GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.80 (DYKE 6)
Scale 1:200



GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.120 (DYKE 6)
Scale 1:200

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP
	GRANULAR FILL

B	ISSUED FOR PRELIMINARY DESIGN	2024-03-08
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date

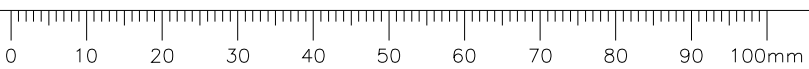
Consultant
ARCADIS
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Richmond Hill ON L4B 3N4 Canada
tel 905 764 9380
www.arcadis.com

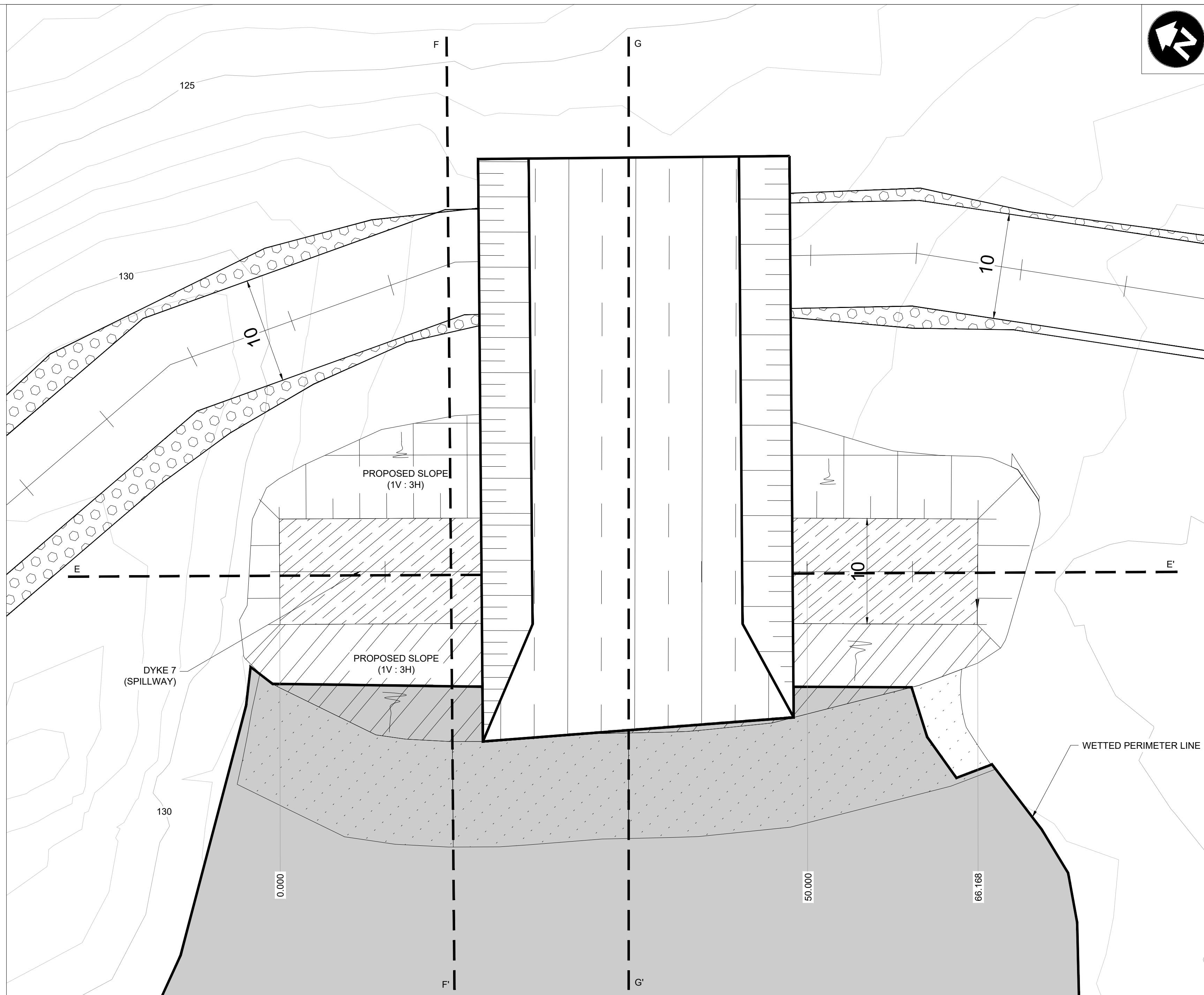
Project title
**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
R.J.
Drawn by
A.A.
Approved by
E.L.
Project Manager
C.G.

Drawing title
**CIVIL
DYKE 6 CROSS-SECTIONS**

Project no.	Drawing no.	Revision no.
30192375	C310	B





DYKE 7 (SPILLWAY) PLAN VIEW

Scale 1:250 @ A1



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LEGEND	
PATTERN	DETAIL
	CUTTING
	FILLING
	RIPRAP
	10m BUFFER ZONE
	WETTED AREA OF RESERVOIR
	DAM CREST

A	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
Revision	Description	Date
Consultant		



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Project title

CITY OF IQALUIT

LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

Designed by
R.J.

Drawn by

A.A.

Approved by

E.L.

Project Manager

C.G.

Drawing title

CIVIL

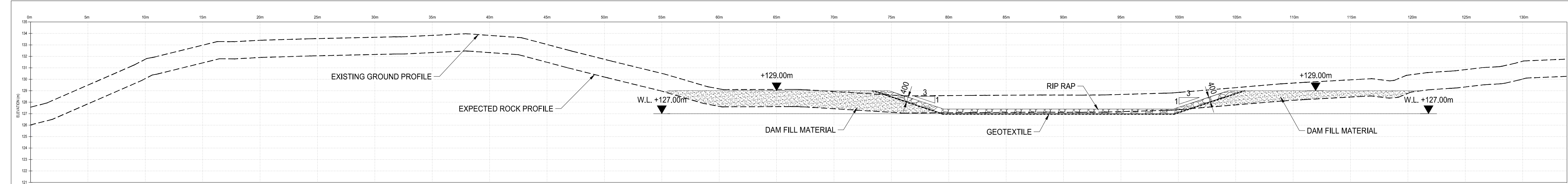
DYKE 7 (SPILLWAY) PLAN VIEW

Project no.	Drawing no.	Revision no.
30192375	C311	A

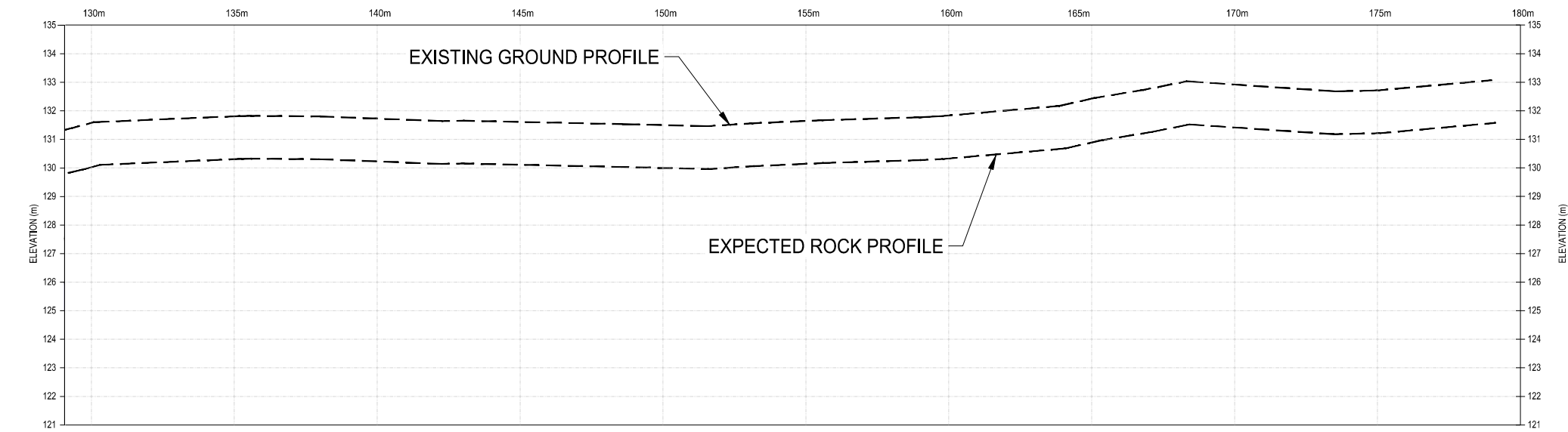
C311

A

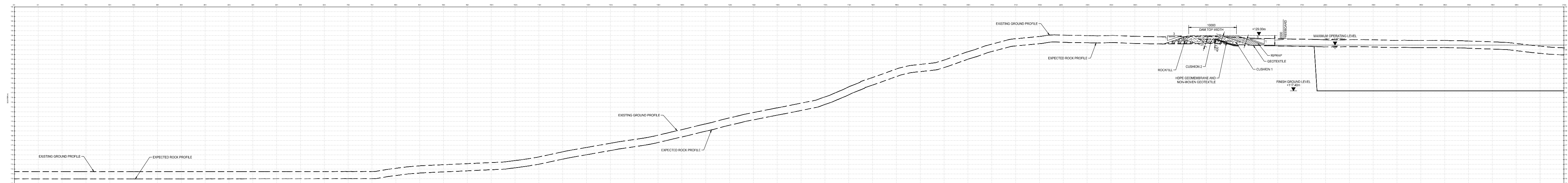
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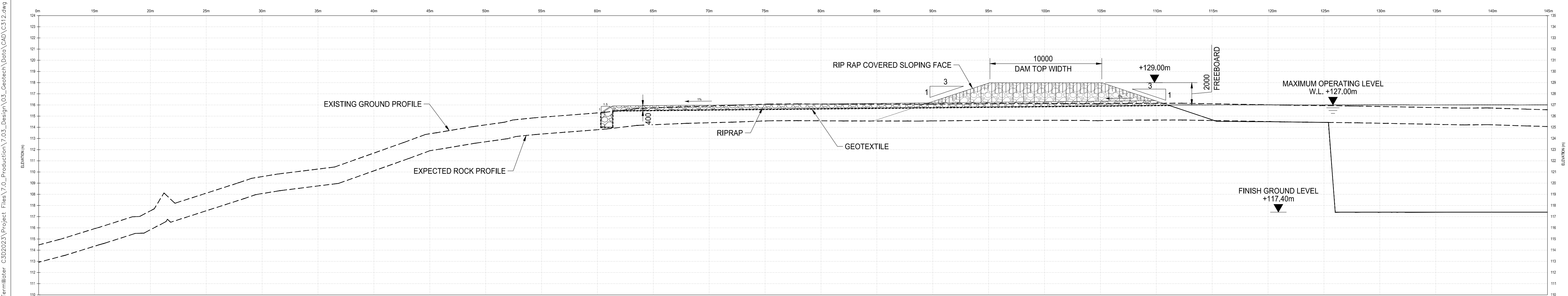
DYKE-7-SPILLWAY LONG SECTION E-E
SCALE 1:200



DYKE-7-SPILLWAY LONG SECTION E-E
SCALE 1:200



DYKE-7-SPILLWAY LONG SECTION F-F
SCALE 1:500



DYKE-7-SPILLWAY LONG SECTION G-G
SCALE 1:200

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP

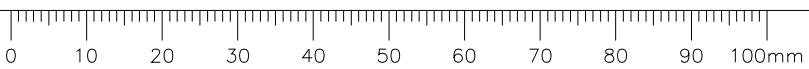


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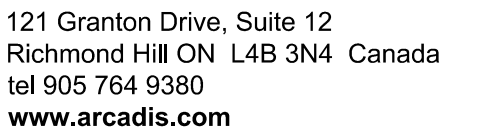
NOT FOR CONSTRUCTION

B	ISSUED FOR PRELIMINARY DESIGN	2024-03-08
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date
Consultant		
 121 Granton Drive, Suite 12 Richmond Hill ON L4B 3N4 Canada tel 905 764 9380 www.arcadis.com		
Project title		
CITY OF IQALUIT		
LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE		
Designed by R.J.		
Drawn by A.A.		
Approved by E.L.		
Project Manager C.G.		
Drawing title		
LONG SECTIONS		
Project no.	Drawing no.	Revision no.
30192375	C312	B



LEGEND	
PATTERN	DETAIL
	DAM CREST
	CUTTING
	FILLING
	RIPRAP
	10m BUFFER ZONE
	WETTED AREA OF RESERVOIR
	SURVEY CONTROL MONUMENT
	THERMISTOR
	PIEZOMETER
	INCLINOMETER
	REMOTE CAMERA
	STAFF GAUGE

A	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
Revision	Description	Date
Consultant		

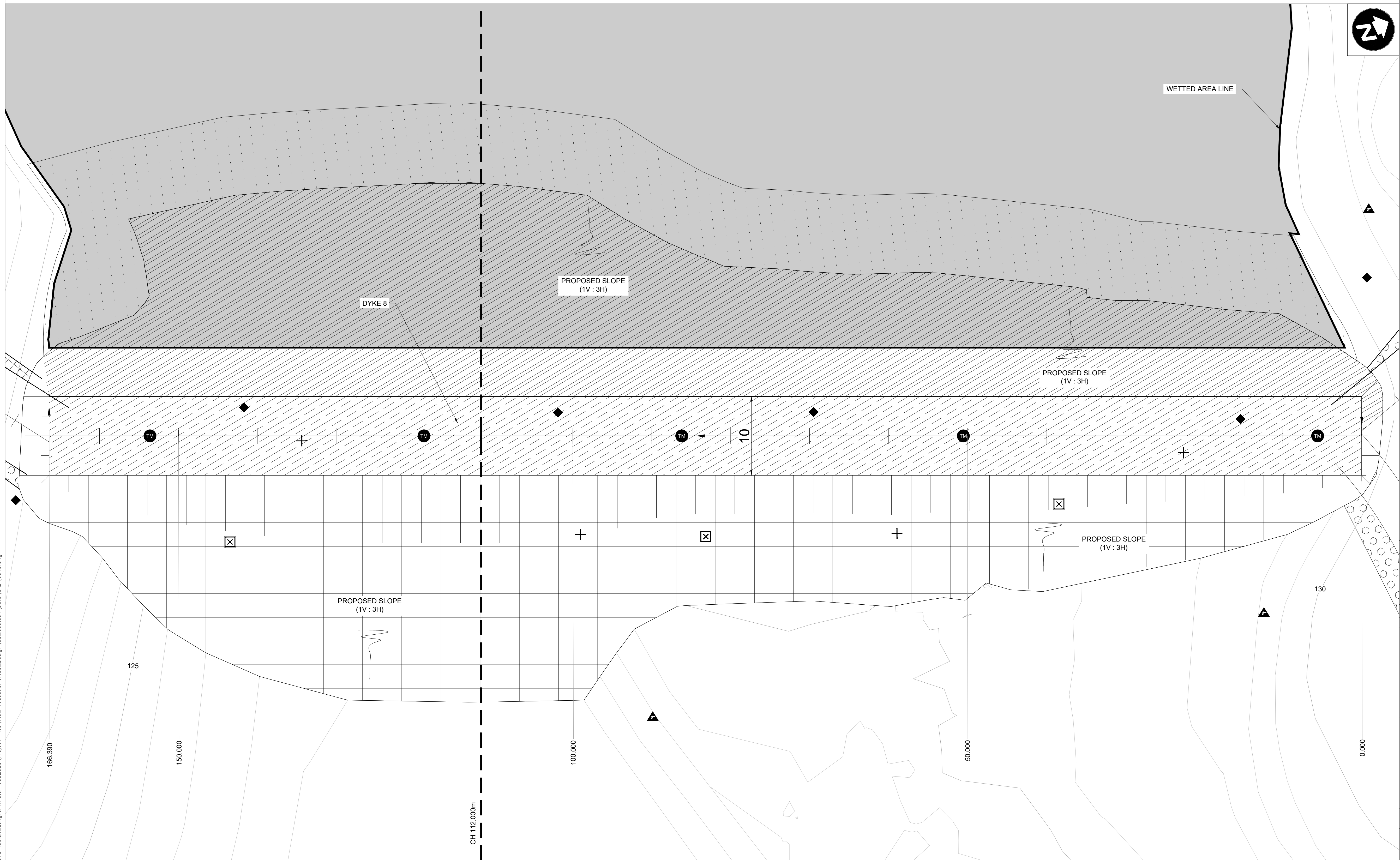


LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

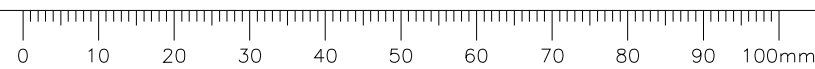
Project Manager
C.G.

DYKE 8 PLAN VIEW

Project no.	Drawing no.	Revision no.
30192375	C313	A



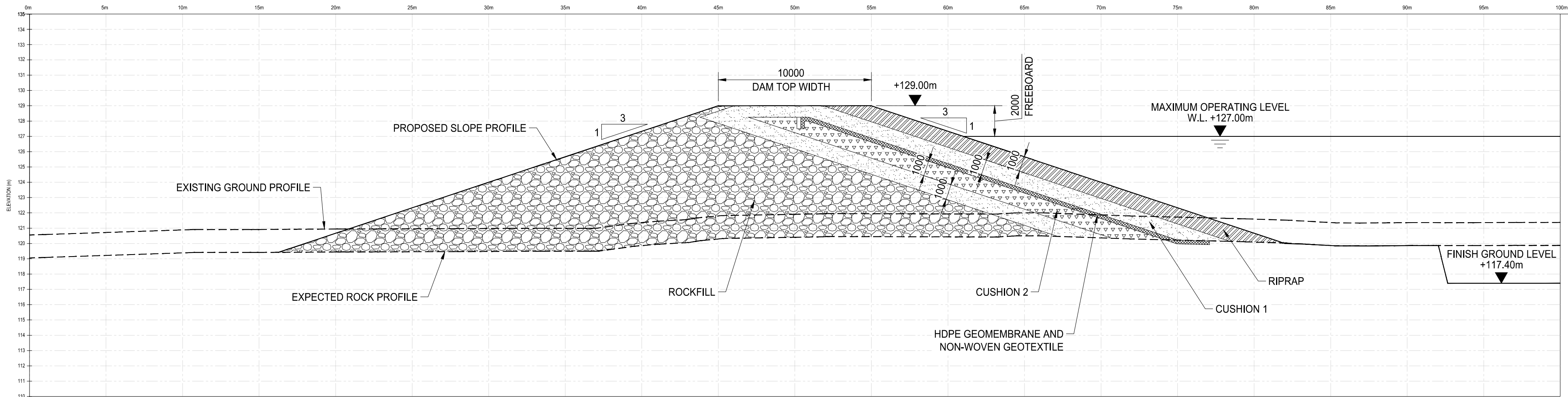
DYKE 8 PLAN VIEW
Scale 1:250 @ A1





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GEOMEMBRANE FACED ROCKFILL DYKE SECTION AT CH.112 (DYKE 8)

Scale 1:200

Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN	2024-03-08

Consultant



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Project title

LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

Project Manager
C.G.

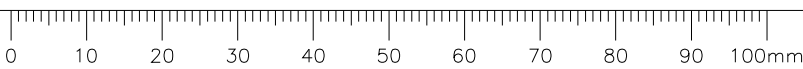
Drawing title

CIVIL

DYKE 8 CROSS-SECTIONS

Project no.	Drawing no.	Revision no.
30192375	C314	A

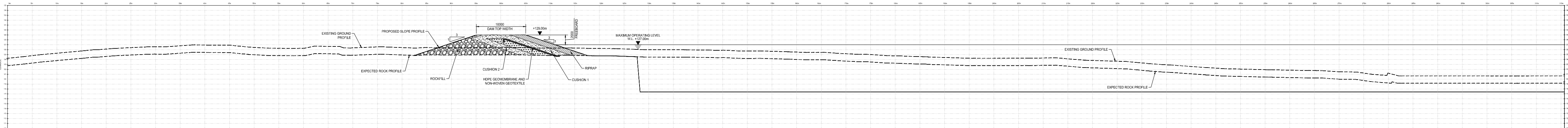
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	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP
	GRANULAR FILL



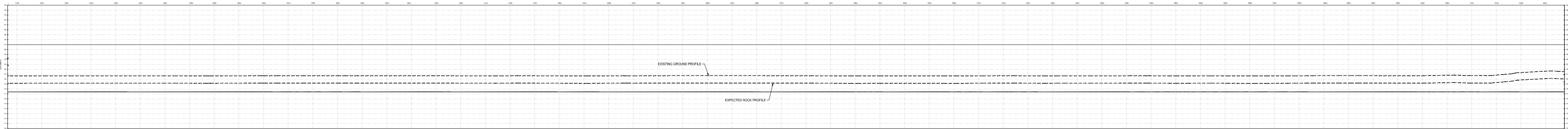


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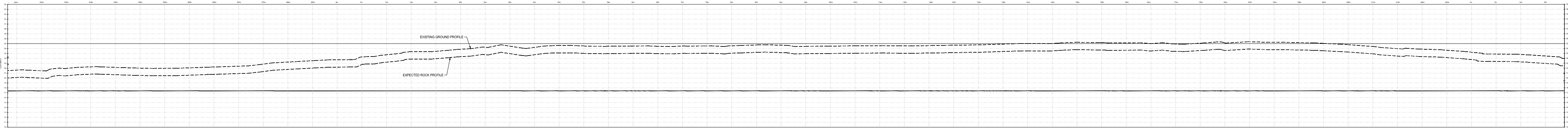
PRELIMINARY
NOT FOR CONSTRUCTION



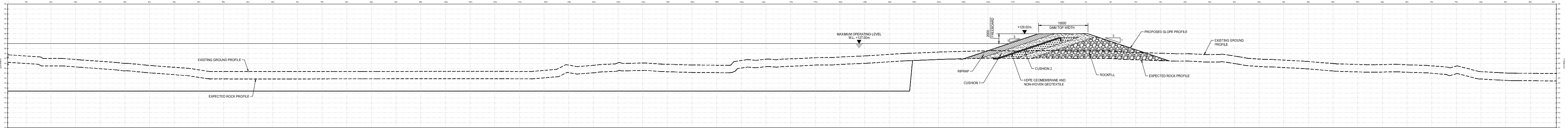
LONG SECTION A-A
SCALE 1:500



LONG SECTION A-A
SCALE 1:500



LONG SECTION A-A
SCALE 1:500



LONG SECTION A-A
SCALE 1:500

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP



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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
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Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

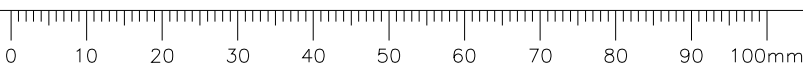
Project Manager
C.G.

Drawing title

CIVIL

**RESERVOIR LONG
CROSS-SECTION A-A'**

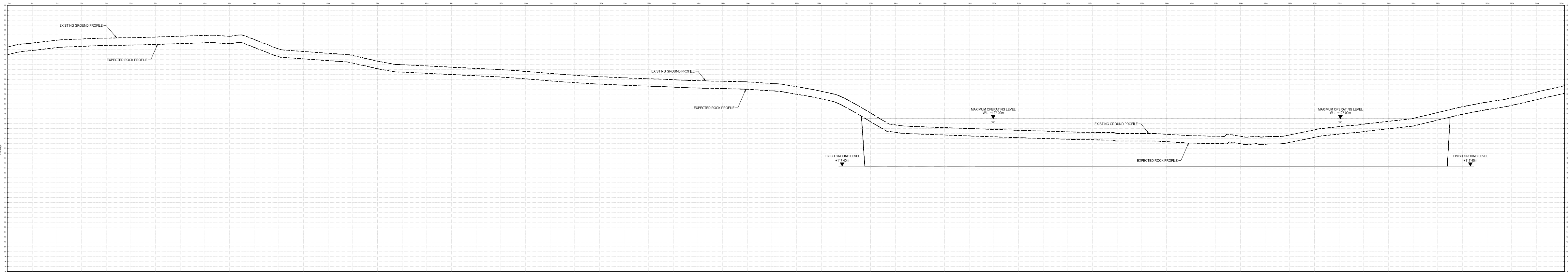
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30192375	C315	A



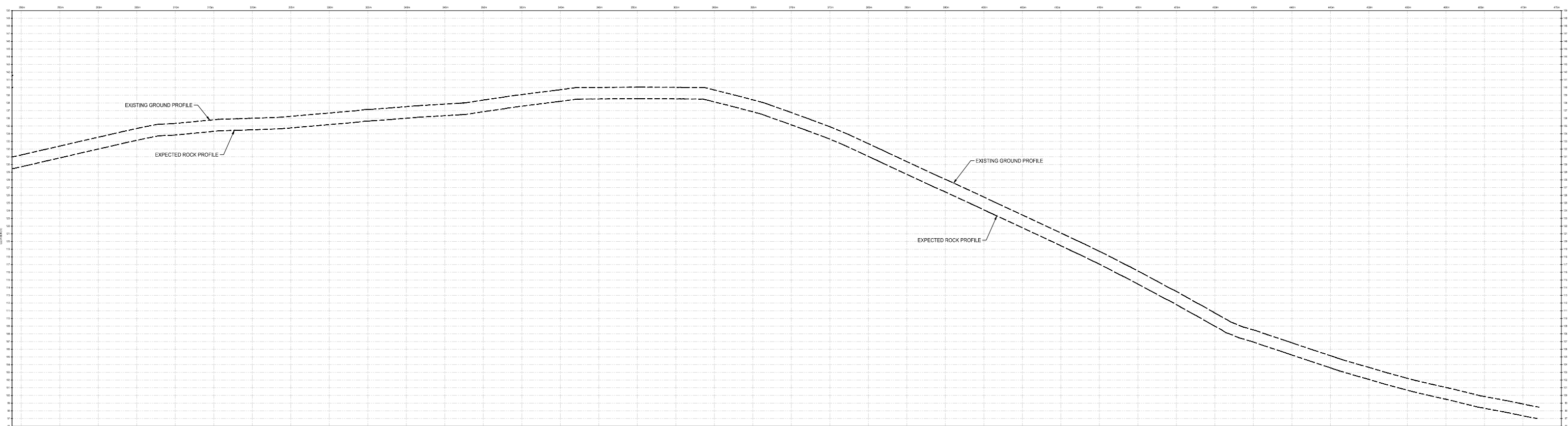


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LONG SECTION B-B
SCALE 1:500



LONG SECTION B-B
SCALE 1:500

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP



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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

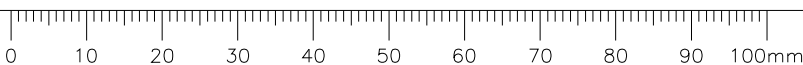
Project Manager
C.G.

Drawing title

CIVIL

**RESERVOIR LONG
CROSS-SECTION B-B'**

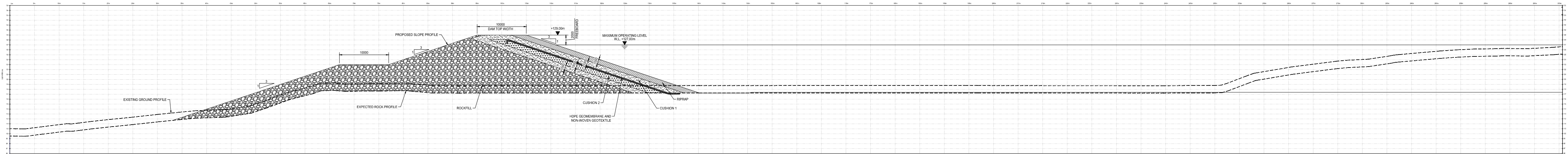
Project no.	Drawing no.	Revision no.
30192375	C316	A



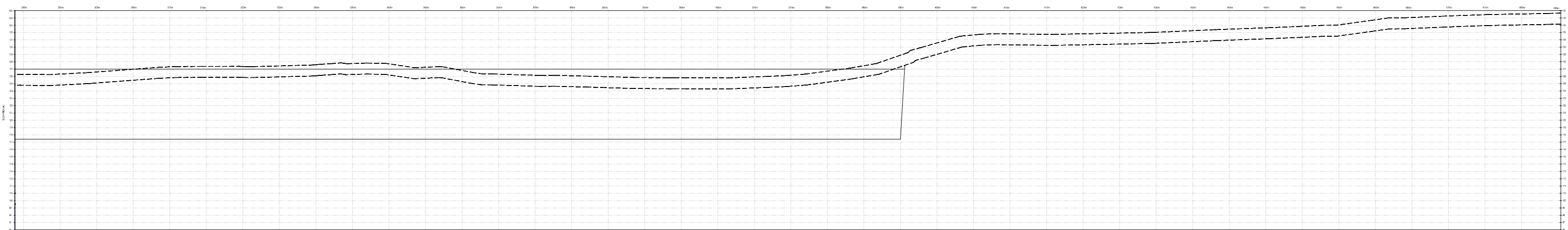


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LONG SECTION C-C
SCALE 1:500



LONG SECTION C-C
SCALE 1:500

A	ISSUED FOR PRELIMINARY DESIGN	2024-03-08
Revision	Description	Date

Consultant

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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

Project Manager
C.G.

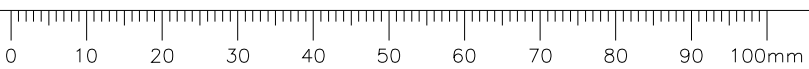
Drawing title

CIVIL

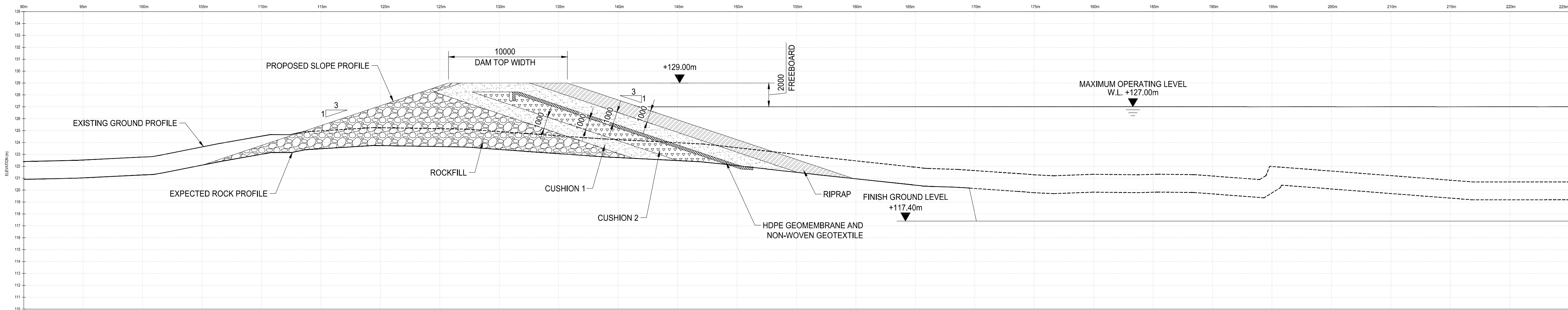
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Project no.	Drawing no.	Revision no.
30192375	C317	A

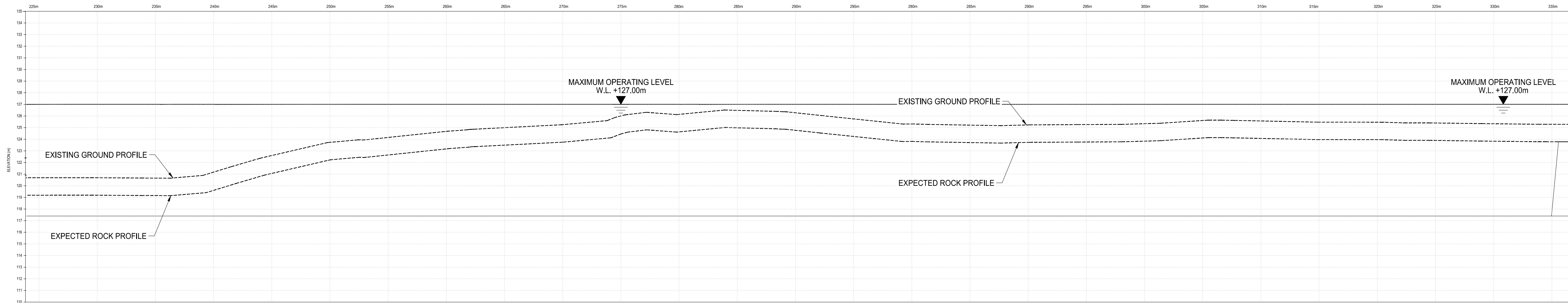
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	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP



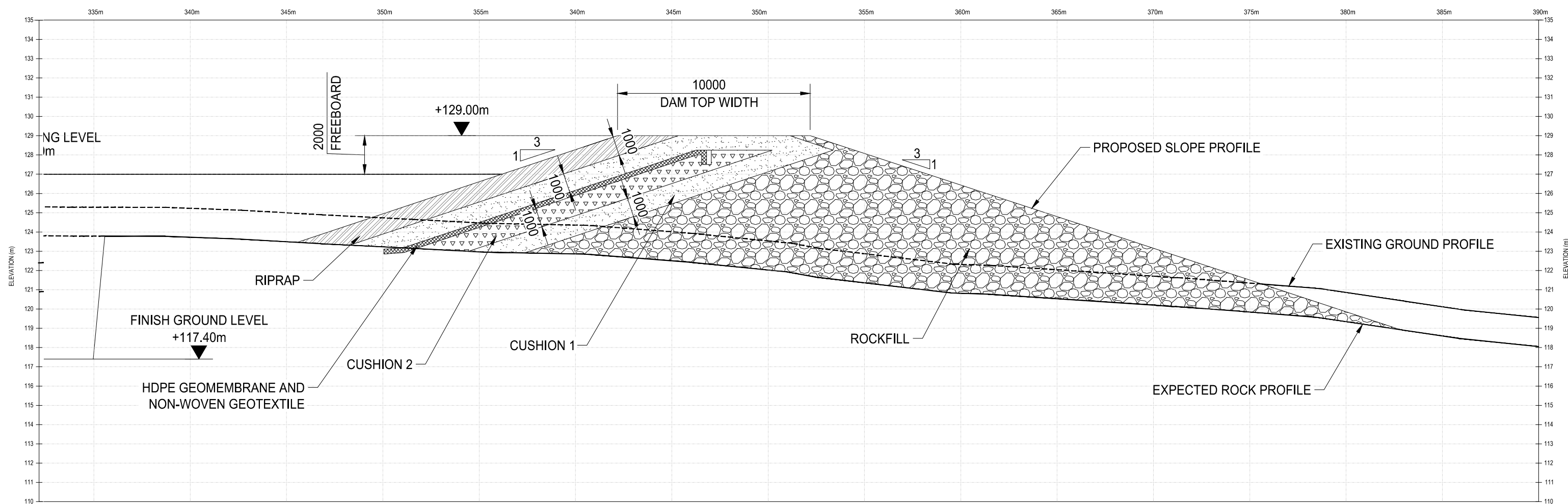
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LONG SECTION D-D
SCALE 1:500



LONG SECTION D-D
SCALE 1:500



LONG SECTION D-D
SCALE 1:500

LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	RIPRAP



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Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN	2024-03-08

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Project title

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

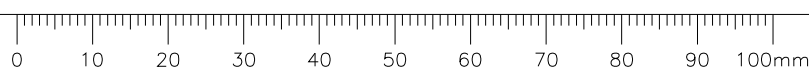
Project Manager
C.G.

Drawing title

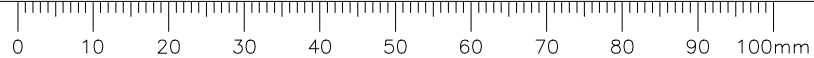
CIVIL

**RESERVOIR LONG
CROSS-SECTION D-D'**

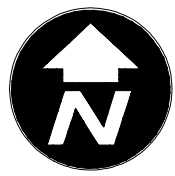
Project no.	Drawing no.	Revision no.
30192375	C318	A



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LEGENDS	
	ROCKFILL
	CUSHION 1
	CUSHION 2
	HDPE GEOMEMBRANE AND NON-WOVEN GEOTEXTILE
	FILL



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LEGENDS :

	CUTTING
	FILLING

Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN	2024-03-22

Consultant

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Project title

CITY OF IQALUIT

LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

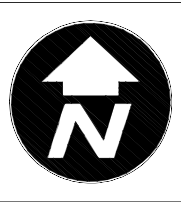
Project Manager
C.G.

Drawing title

CIVIL

RING ROAD PLAN

Project no.	Drawing no.	Revision no.
30192375	C319	A



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PRELIMINARY
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LEGENDS :

- CUTTING
- FILLING

Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN	2024-03-22

Consultant



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Richmond Hill ON L4B 3N4 Canada
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Project title

CITY OF IQUALUIT

**LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
R.J.

Drawn by
A.A.

Approved by
E.L.

Project Manager
C.G.

Drawing title

CIVIL

ACCESS ROAD PLAN

Project no.	Drawing no.	Revision no.
30192375	C320 xx	A

LEGENDS

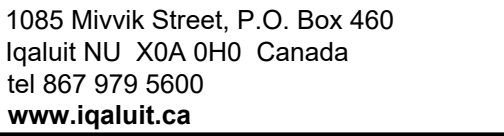
**ROCKFILL**

**CUSHION 1**

**CUSHION 2**

**HDPE GEOMEMBRANE AND
NON-WOVEN GEOTEXTILE**

**RPPWP**



NOTES:

1. REFER TO UTILITY DRAWINGS FOR
RAW WATERMAINS PLAN AND PROFILES.

Consultant

 **ARCADIS**

8133 Warden Avenue - Unit 300
Markham ON L6G 1B3 Canada
tel 905 763 2322
www.arcadis.com

Project title

**IQALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by A.P.
Drawn by L.E.
Approved by P.D.
Project Manager C.G.

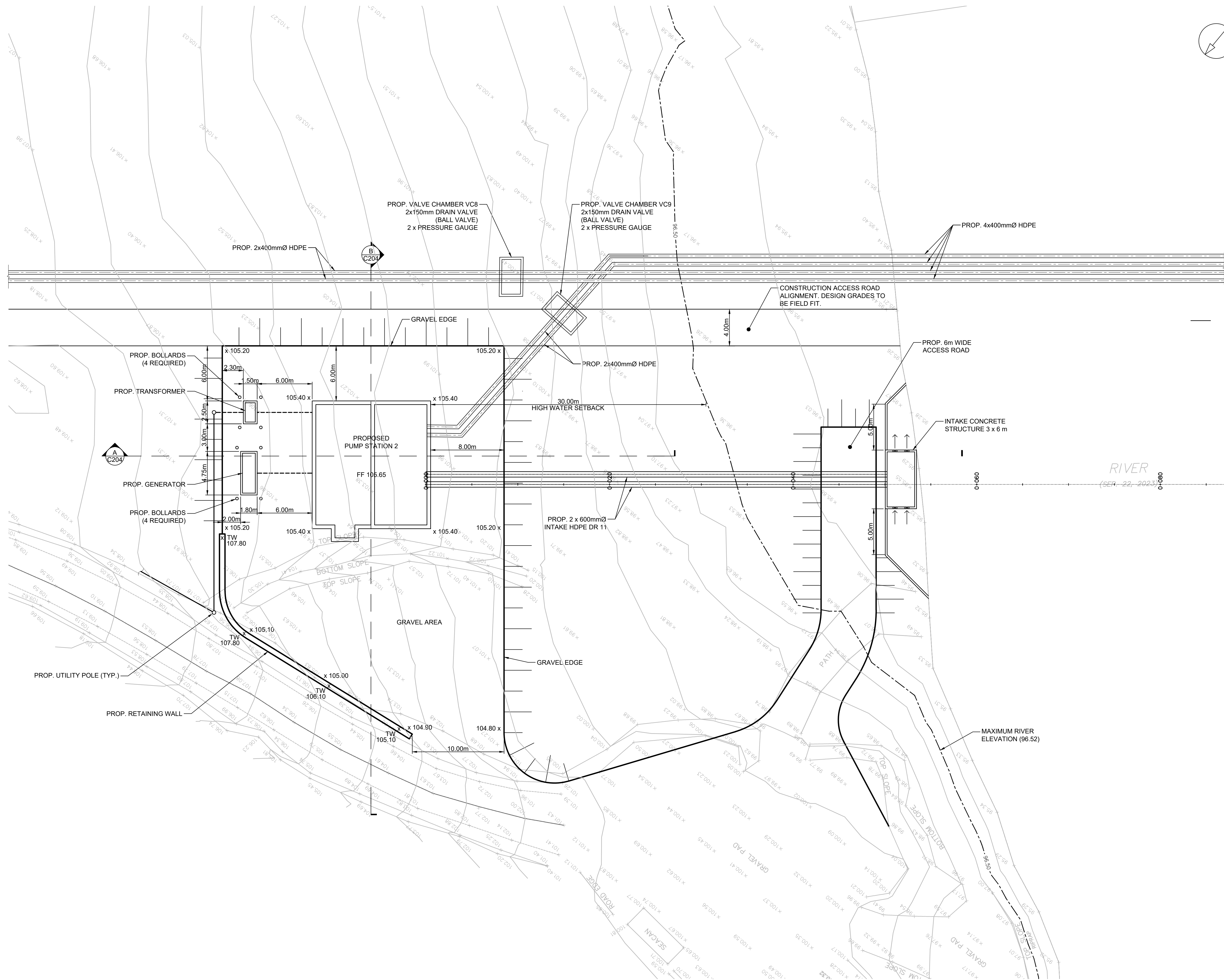
Drawing title

CIVIL

PUMP AND STATION

SITE PLAN

Project no.	Drawing no.	Revision no.
30192375	C1102	C

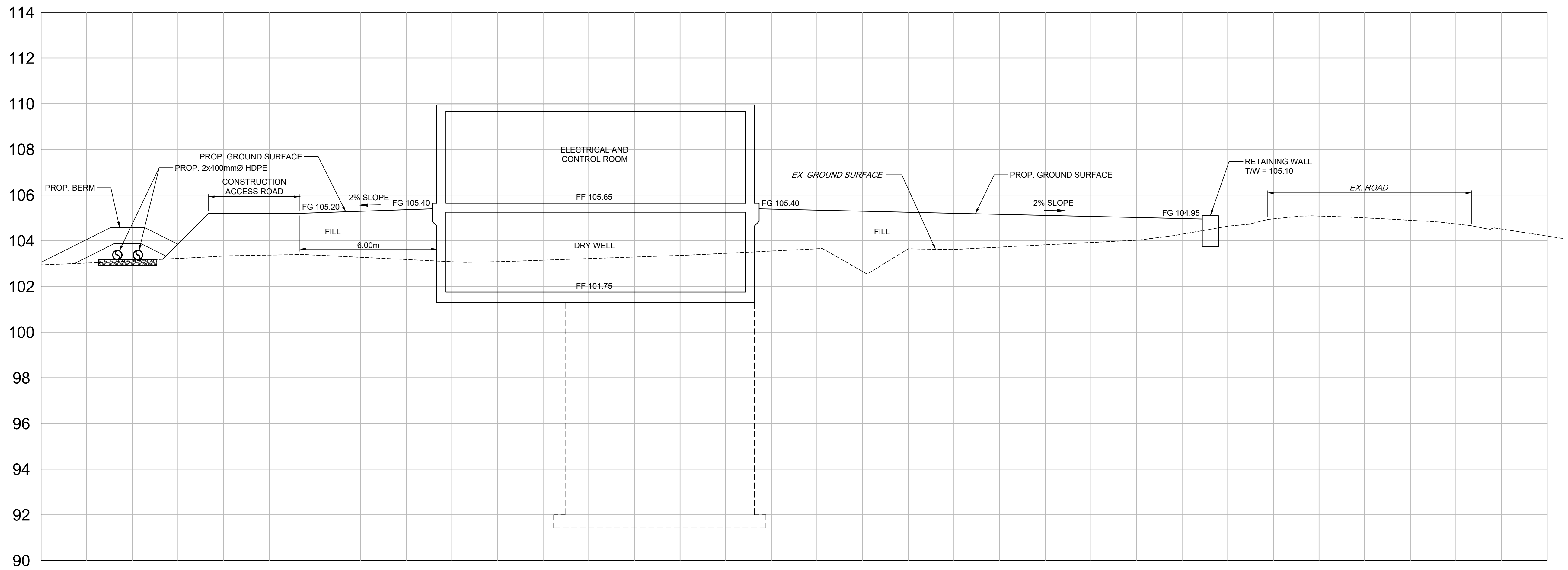


A Site Plan
C102 1 : 200

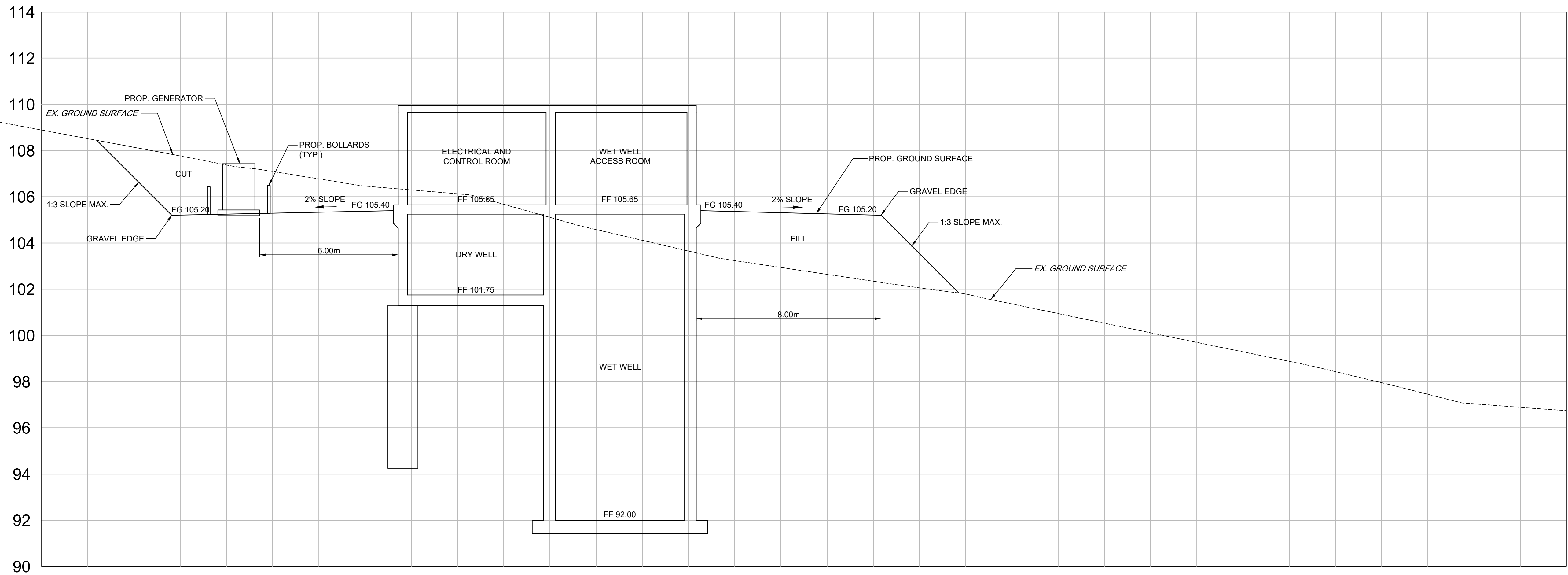


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B SECTION
1 : 100



A SECTION
1 : 100

Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN (REVISED)	2025-05-26

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Project title
**IQUALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by

A.P.

Drawn by

L.E.

Approved by

P.D.

Project Manager

C.G.

Drawing title

CIVIL

**AR PUMP STATION
SITE PLAN
SECTIONS**

Project no.

30192375

Drawing no.

C1204

Revision no.

C

 - GROUND TO BE REMOVED - FILL ON EX. GROUND

BV  - BALL VALVE (AUTOMATED)

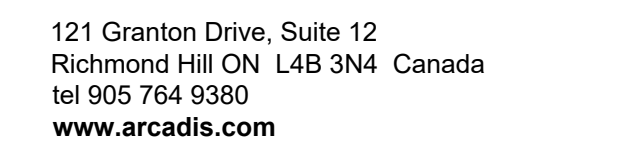
—||— - FLANGE ADAPTOR

1. CONTROL POINTS 500, 501 AND 502 WERE GENERATED USING A BENCH MARK CCM28, WHICH HAS THE FOLLOWING VALUES :

NORTHING	7068622.839
EASTING	525561.325
ELEVATION	117.298

(NAD83(CSRs) Ep. 2010.0 and CGVD(2013))

B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date
Consultant		

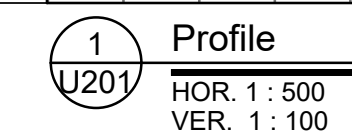


LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

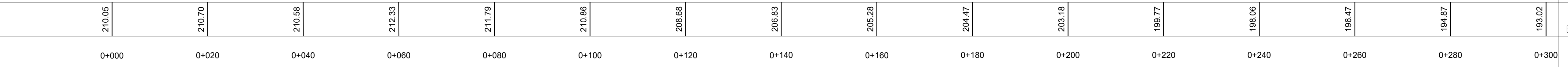
Project Manager
C.G.

CIVIL

Project no.	Drawing no.	Revision no.
30192375	U201	B

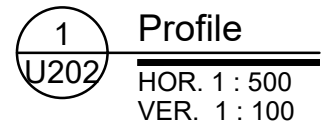
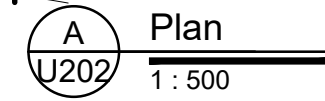


PROP. WATERMAIN INVERT ELEVATION
EXISTING GROUND ELEVATION



 - GROUND TO BE REMOVED

 - FILL ON EX. GROUND

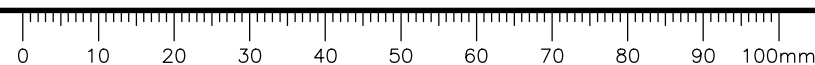


PROP. WATERMAIN INVERT ELEVATION	
EXISTING GROUND ELEVATION	
C/L CHAINAGE	

Designed by O.N.
Drawn by N.V.
Approved by G.G.
Project Manager C.G.

**WATERMAIN PLAN AND PROFILE
STA. 0+300 TO STA. 0+620**

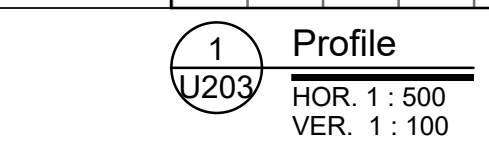
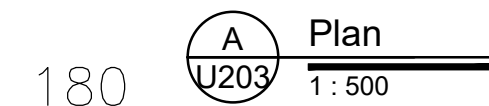
Project no.	Drawing no.	Revision no.
30192375	U202	B



 - GROUND TO BE REMOVED

SCAV  - SANITARY COMBINATION
AIR VALVE (MANUAL)

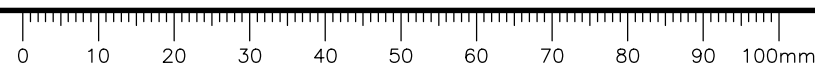
PG - PRESSURE GAUGE



PROP. WATERMAIN INVERT ELEVATION
EXISTING GROUND ELEVATION
C/L CHAINAGE

WATERMAIN PLAN AND PROFILE
STA. 0+620 TO STA. 0+940

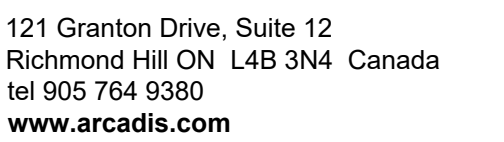
Object no.	Drawing no.	Revision no.
30192375	U203	B



 - GROUND TO BE REMOVED

 - FILL ON EX. GROUND

B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date

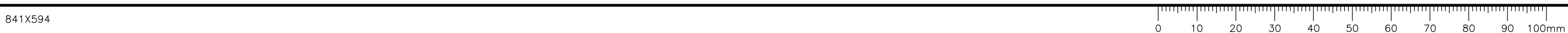


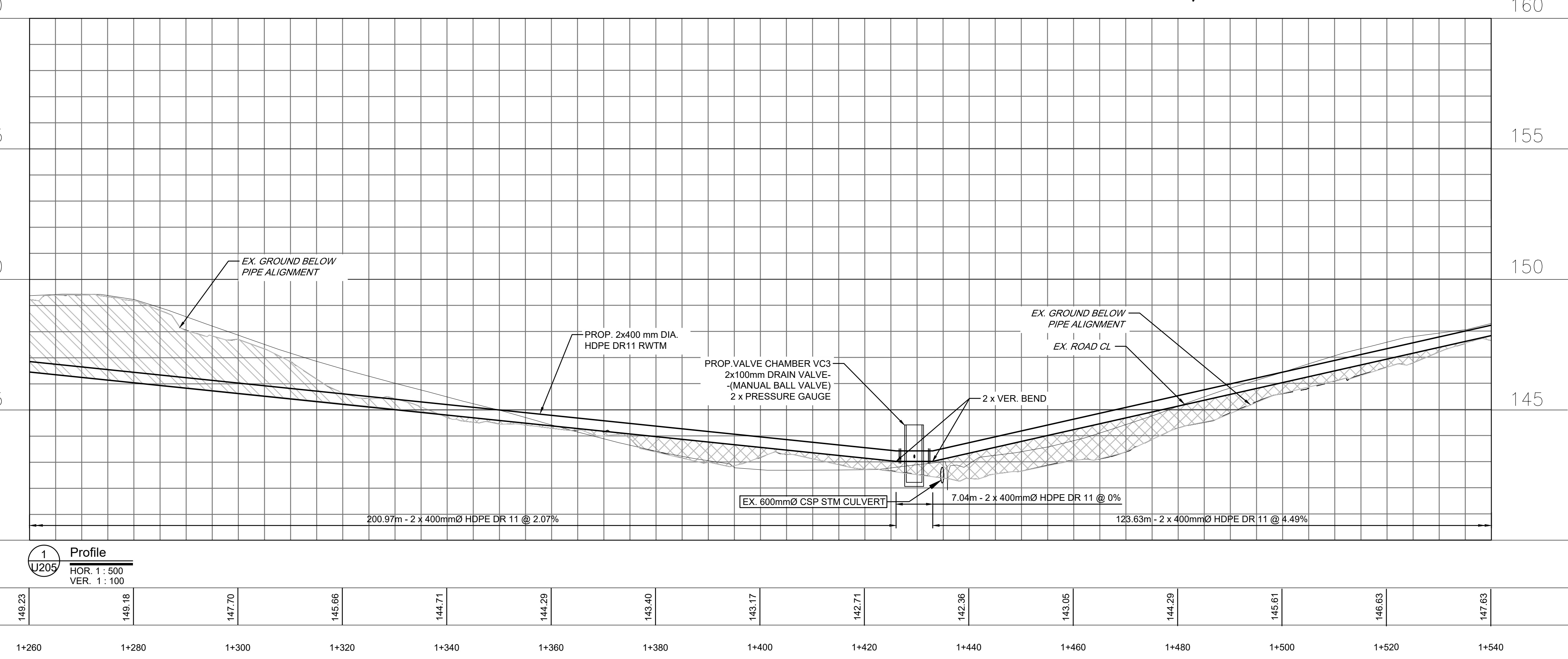
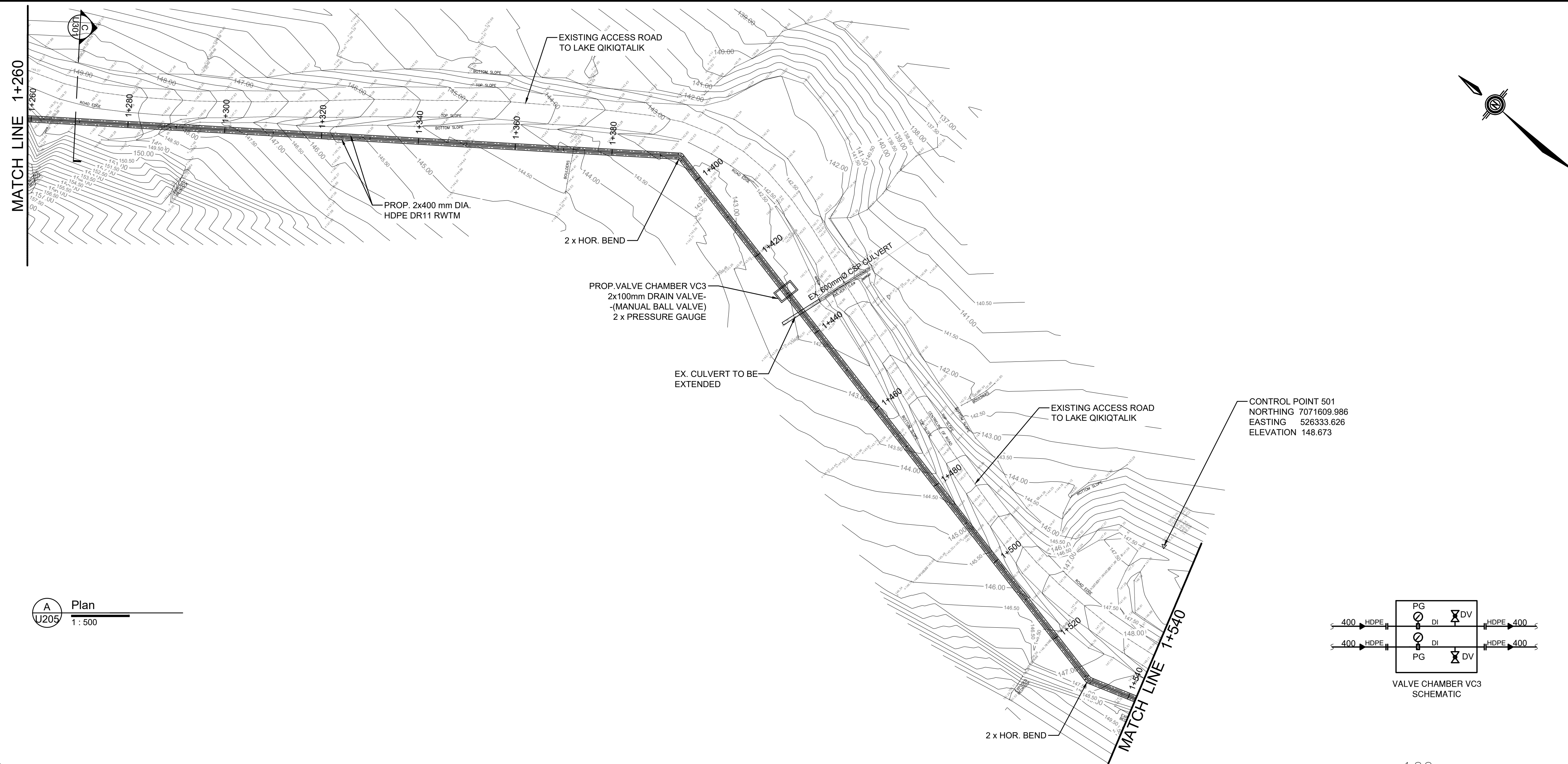
LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

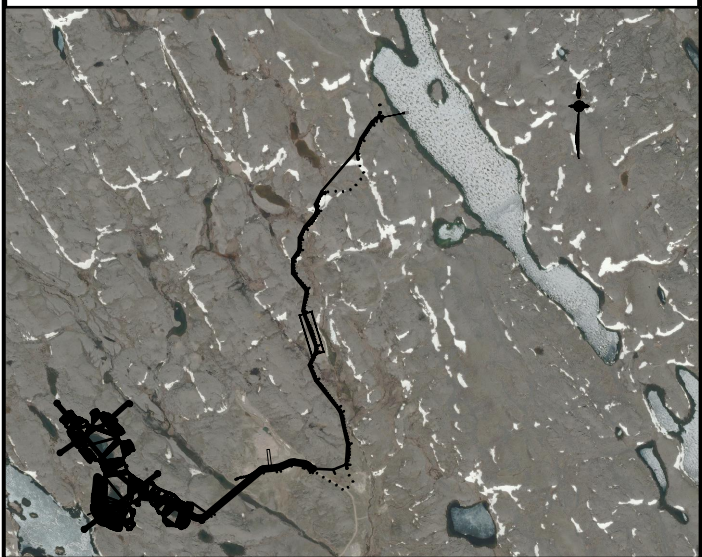
Project Manage
C.G.

CIVIL

Project no.	Drawing no.	Revision no.
30192375	U204	B

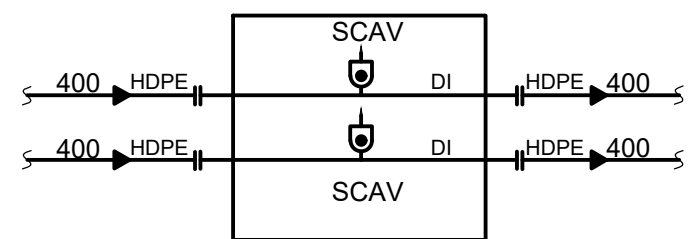




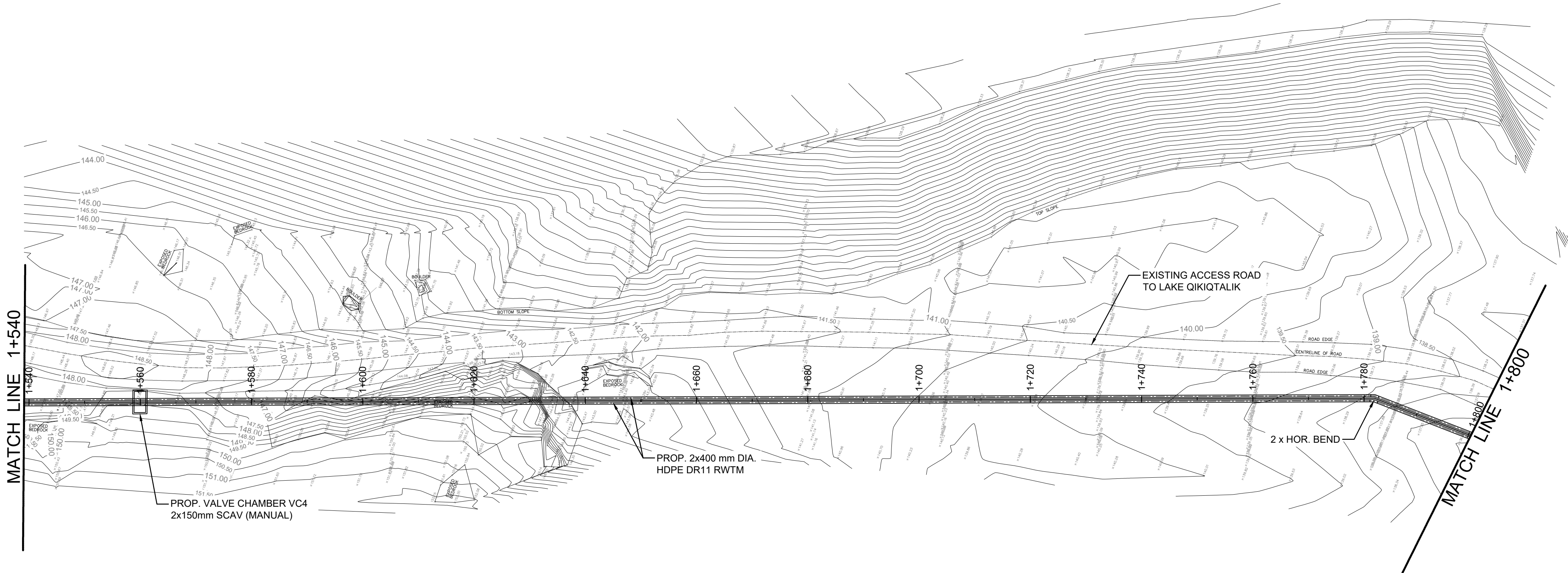


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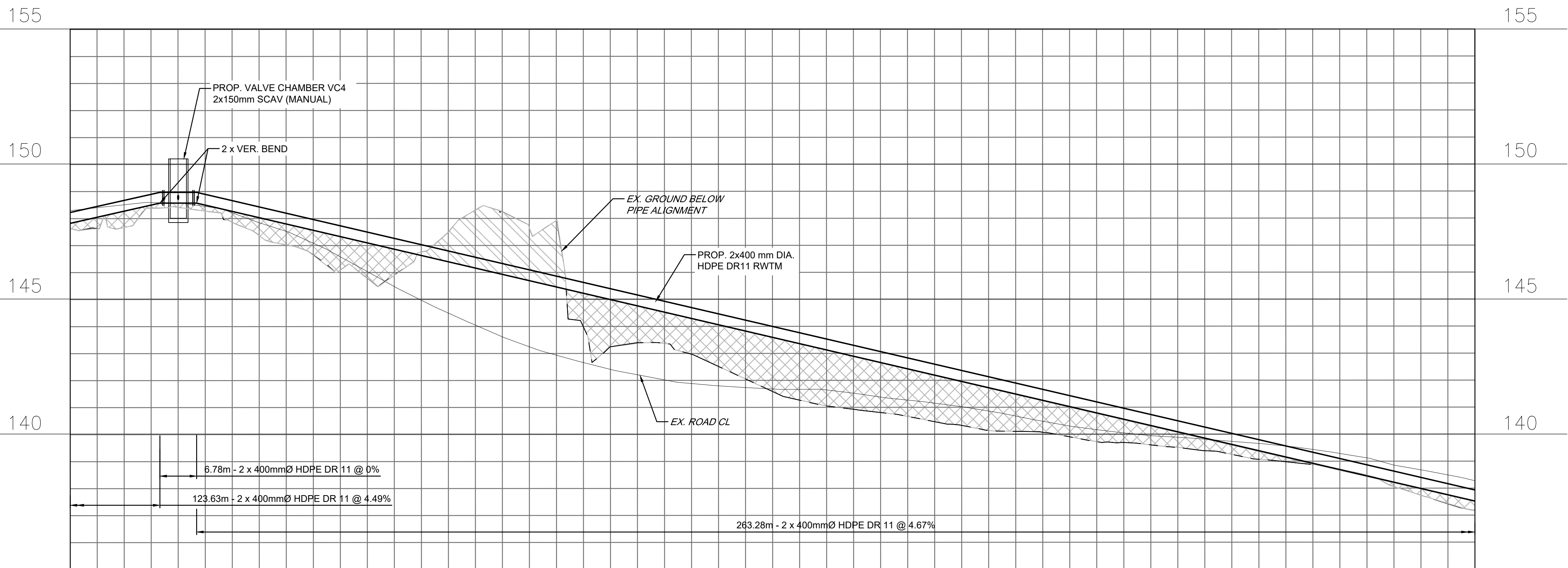
- GROUND TO BE REMOVED
- FILL ON EX. GROUND
- SCAV - SANITARY COMBINATION AIR VALVE (MANUAL)
- FLANGE ADAPTOR



VALVE CHAMBER VC4
SCHEMATIC



A Plan
U206 1: 500



1 Profile
U206 HOR. 1: 500
VER. 1: 100

PROP.
WATERMAIN
INVERT
ELEVATION

EXISTING
GROUND
ELEVATION

C/L
CHAINAGE

Revision	Description	Date
B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27

Consultant	
121 Granton Drive, Suite 12 Richmond Hill ON L4B 3N4 Canada tel 905 764 9380 www.arcadis.com	

Project title
LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

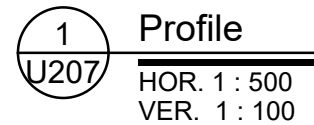
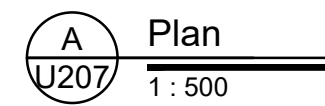
Designed by O.N.
Drawn by N.V.
Approved by G.G.
Project Manager C.G.

Drawing title
CIVIL
WATERMAIN PLAN AND PROFILE STA. 1+540 TO STA. 1+800

Project no. 30192375	Drawing no. U206	Revision no. B
--------------------------------	----------------------------	--------------------------

 - GROUND TO BE REMOVED

 - FILL ON EX. GROUND



PROP. WATERMAIN INVERT ELEVATION
EXISTING GROUND ELEVATION
C/L CHAINAGE



121 Granton Drive, Suite 12
Richmond Hill ON L4B 3N4 Canada
tel 905 764 9380
www.arcadis.com

t title

ed by

by

ed by

t Manage

g title

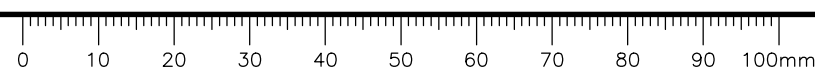
CIVIL

WATERMAIN PLAN AND PROFILE
STA. 1+800 TO STA. 2+120

no.

ing no.

tion no.

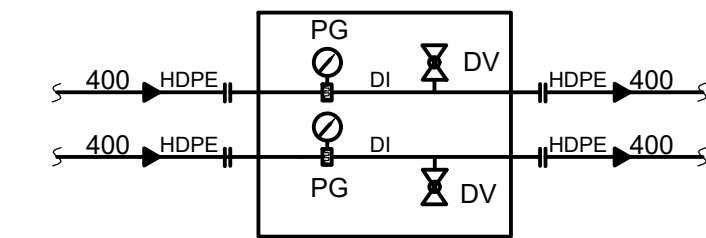


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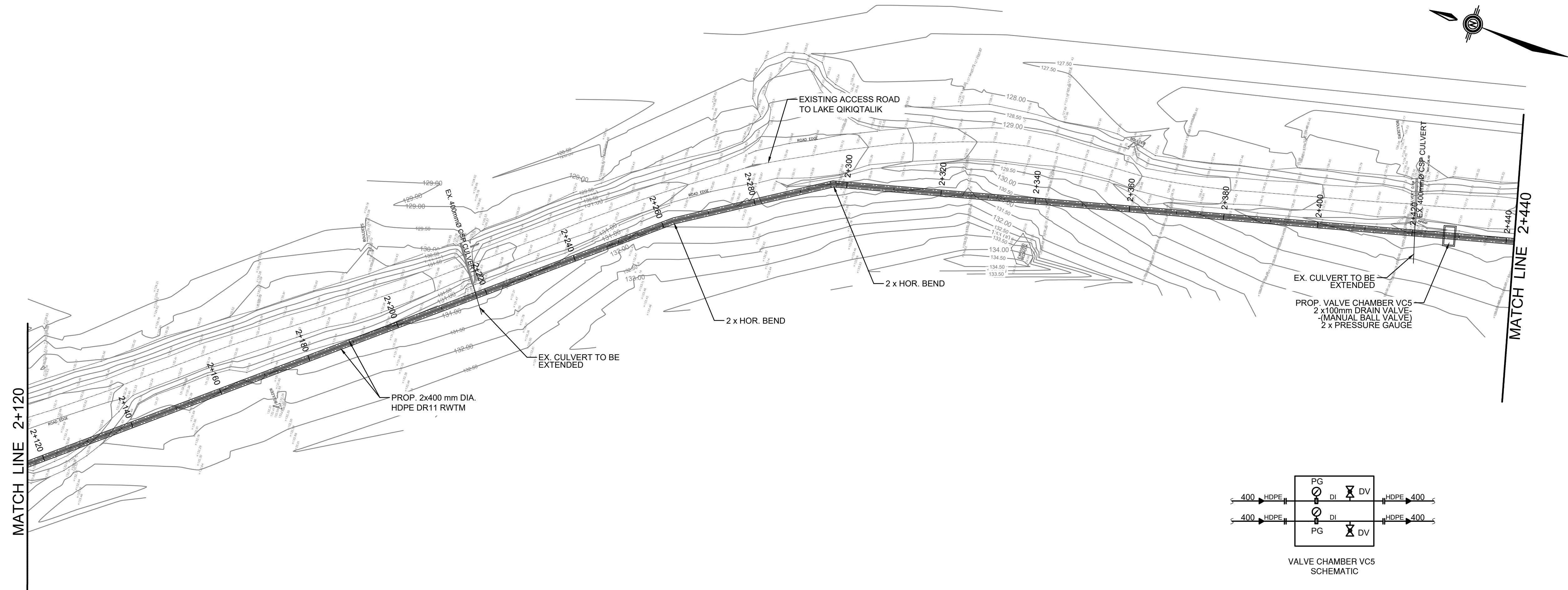
PG - PRESSURE GAUGE

DV - DRAIN VALVE

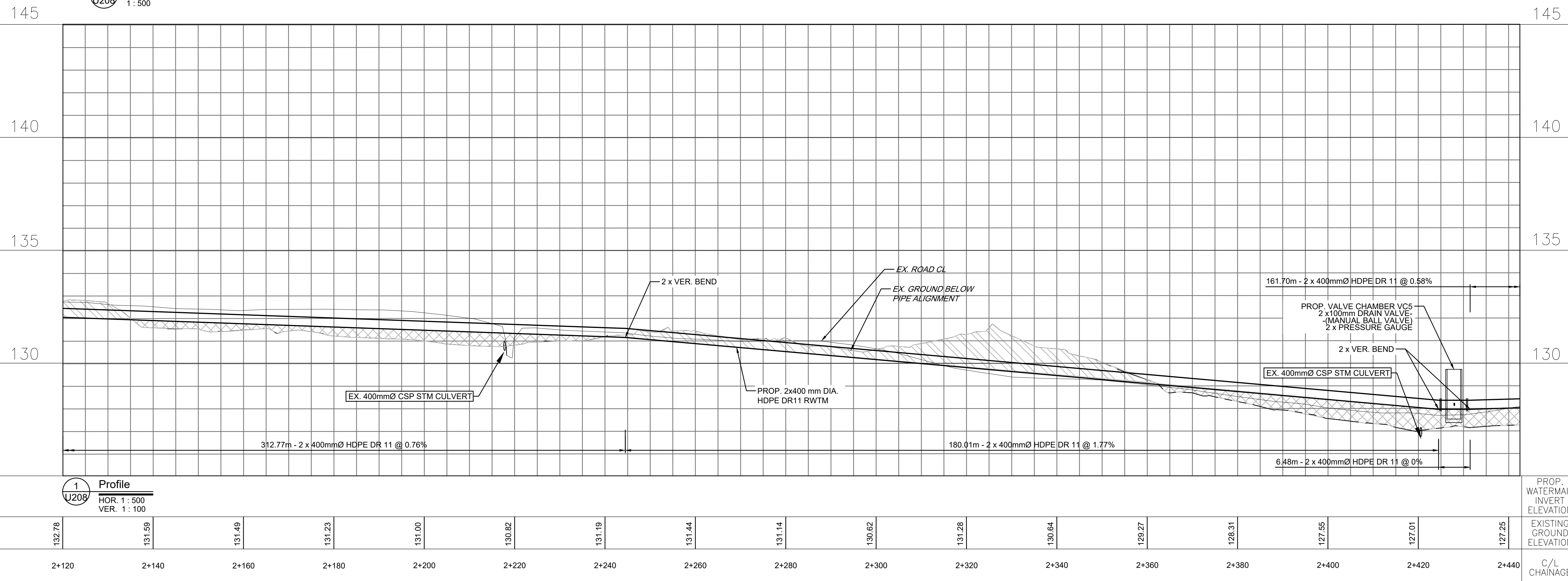
—||— - FLANGE ADAPTOR



VALVE CHAMBER VC5
SCHEMATIC



Plan
1 : 500



PROP. WATERMAIN INVERT ELEVATION	EXISTING GROUND ELEVATION	C/L CHAINAGE
---	---------------------------------	-----------------

Designed by
O.N.

Drawn by
N.V.

Approved by
G.G.

Project Manager
C.G.

Drawing title

CIVIL

WATERMAIN PLAN AND PROFILE
STA. 2+120 TO STA. 2+440

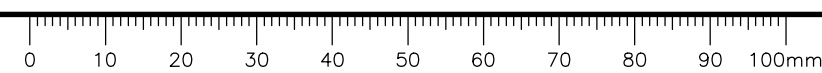
Project no.

3019237

Drawing no.

U208

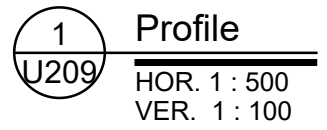
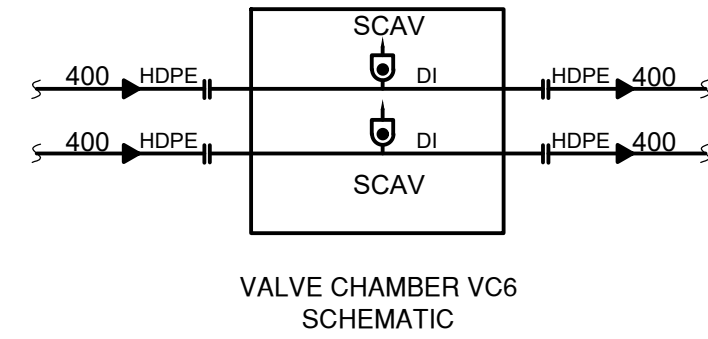
B



 - GROUND TO BE REMOVED

SCAV  - SANITARY COMBINATION
AIR VALVE (MANUAL)

 - FLANGE ADAPTOR

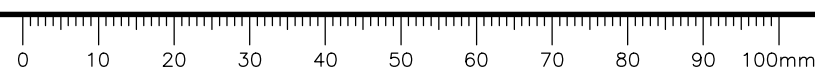


WATERMAIN PLAN AND PROFILE
STA. 2+440 TO STA. 2+720

Designed by O.N.
Drawn by N.V.
Approved by G.G.
Project Manager C.G.

**WATERMAIN PLAN AND PROFILE
STA. 2+440 TO STA. 2+720**

Project no.	Drawing no.	Revision no.
30192375	U209	B



 - GROUND TO BE REMOVED

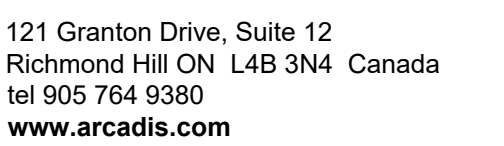
 - FILL ON EX. GROUND

1. CONTROL POINTS 500, 501 AND 502 WERE GENERATED USING A BENCH MARK CCM28, WHICH HAS THE FOLLOWING VALUES :

NORTHING	7068622.839
EASTING	525561.325
ELEVATION	117.298

(NAD83(CSRs) Ep. 2010.0 and CGVD(2013))

B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date

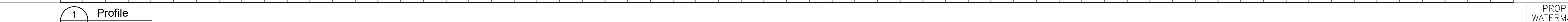


LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

Project Manager

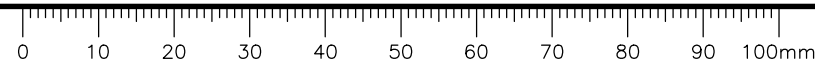
WATERMAIN PLAN AND PROFILE
STA. 2+720 TO STA. 3+040

Project no.	Drawing no.	Revision no.
30192375	U210	B



EXISTING
GROUND
ELEVATION

C/L
CHAINAGE

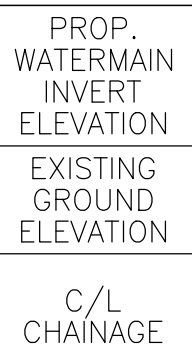
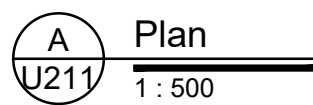
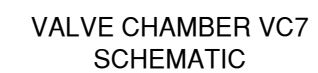


 - GROUND TO BE REMOVED

 - FILL ON EX. GROUND

SCAV  - SANITARY COMBINATION
AIR VALVE (MANUAL)

—||— - FLANGE ADAPTOR



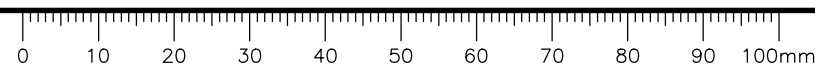
Consultant

 **ARCADIS**

121 Granton Drive, Suite 12
Richmond Hill ON L4B 3N4 Canada
tel 905 764 9380
www.arcadis.com

Designed by O.N.
Drawn by N.V.
Approved by G.G.
Project Manager C.G.

Project no.	Drawing no.	Revision no.
30192375	U211	B



 - GROUND TO BE REMOVED

 - FILL ON EX. GROUND

124



115

110

105

100

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C	ISSUED FOR PRELIMINARY DESIGN (REVISED)	2025-09-26
B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27
Revision	Description	Date

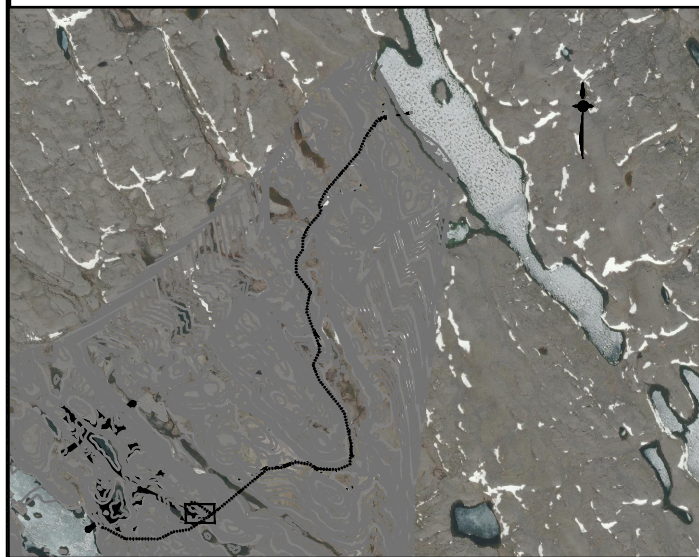
8133 Warden Avenue - Unit 300
Markham ON L6G 1B3 Canada
tel 905 763 2322
www.arcadis.com

Designed by O.N.
Drawn by N.V.
Approved by G.G.
Project Manager C.G.

WATERMAIN PLAN AND PROFILE
STA. 3+360 TO STA. 3+660

Project no.	Drawing no.	Revision no.
30192375	U1212	C

PRELIMINARY
NOT FOR CONSTRUCTION

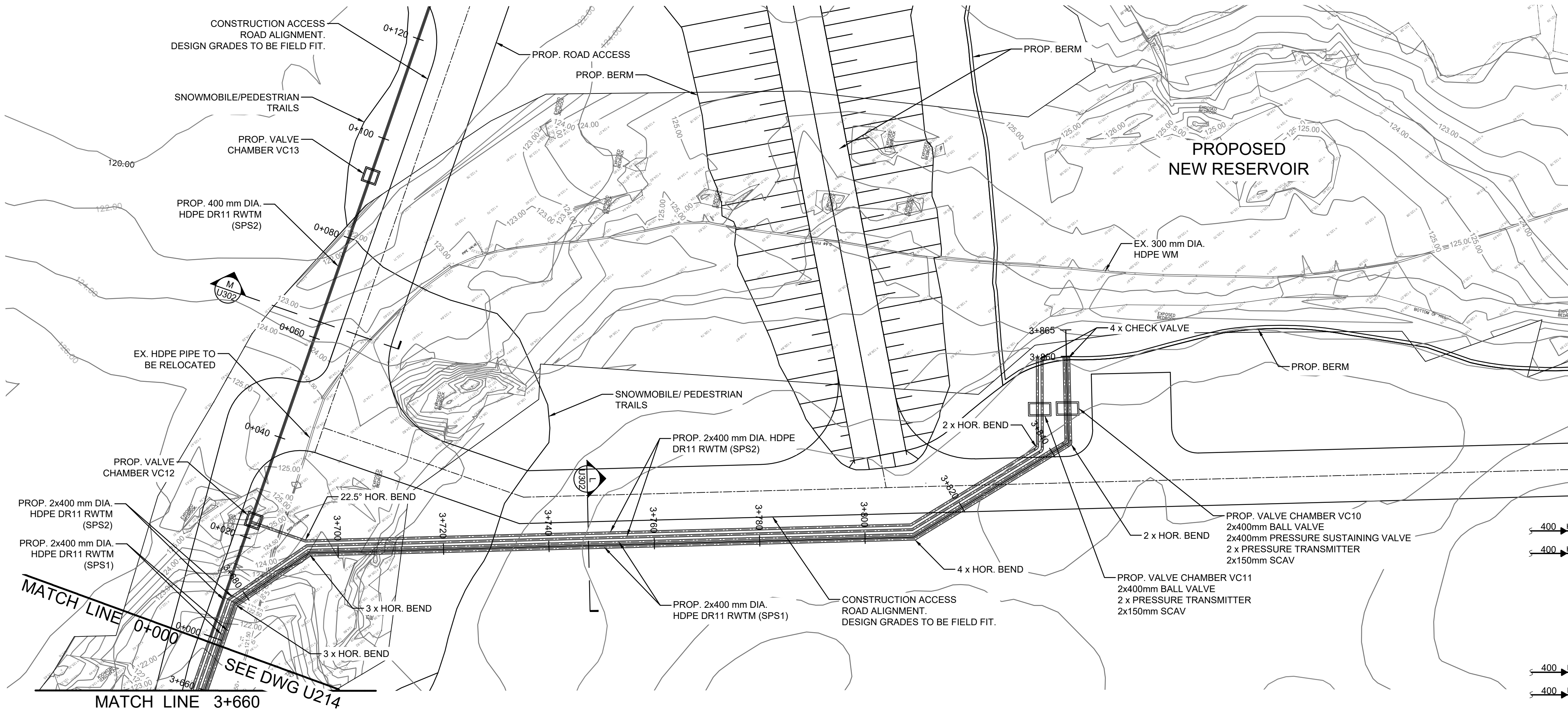
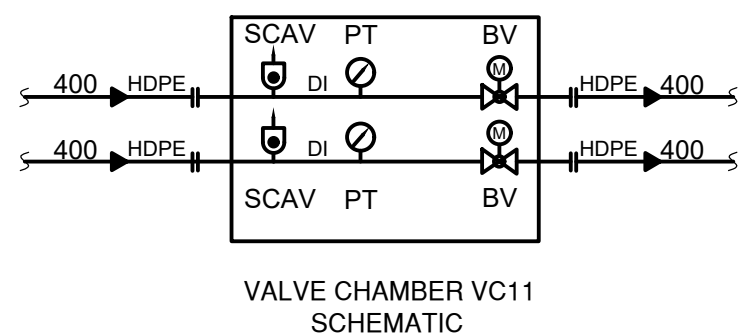
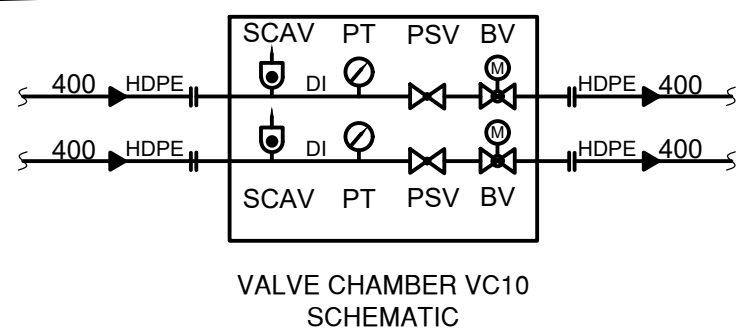


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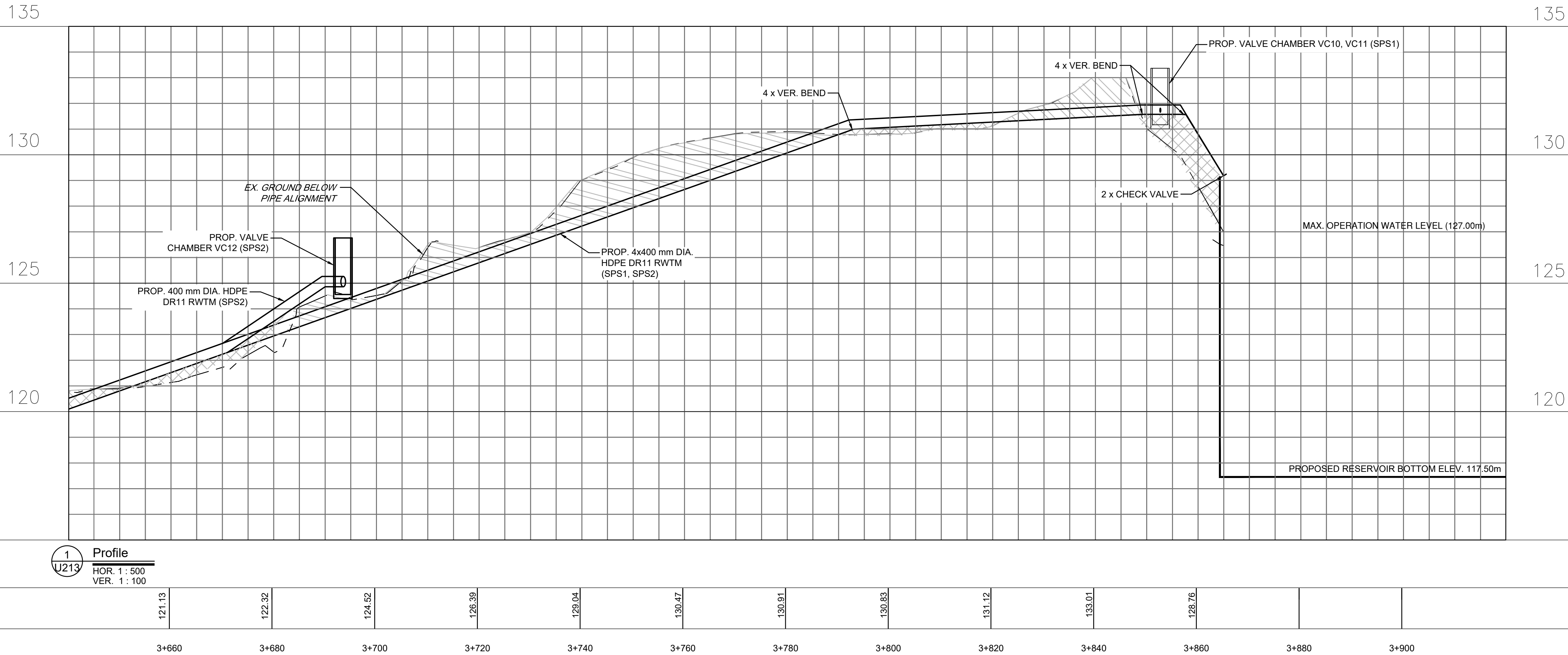
GROUND TO BE REMOVED

FILL ON EX. GROUND

SCAV - SANITARY COMBINATION
AIR VALVE (MANUAL)
PT - PRESSURE TRANSMITTER
BV - BALL VALVE (AUTOMATED)
PSV - PRESSURE
SUSTAINING VALVE
FLANGE ADAPTOR



A Plan
U207 1:500



1 Profile
U213 HOR. 1:500
VER. 1:100

PROP.
WATERMAIN
INVERT
ELEVATION
EXISTING
GROUND
ELEVATION
C/L
CHAINAGE

IQUALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by
JEC
Drawn by
N.V.
Approved by
G.G.
Project Manager
C.G.

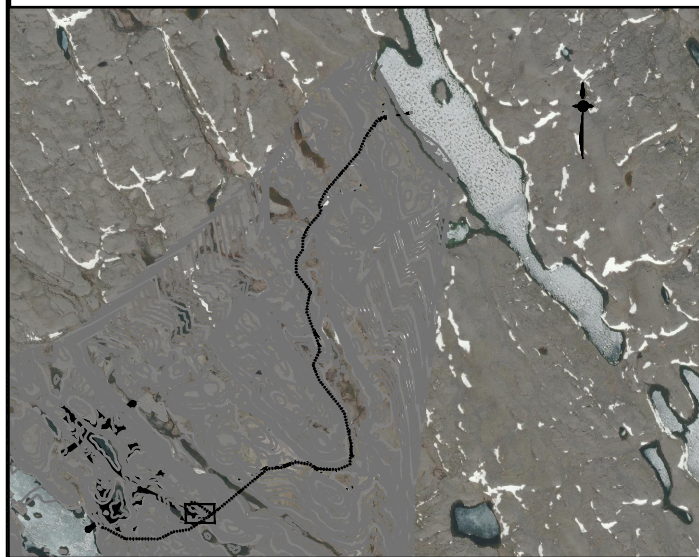
Drawing title
CIVIL
WATERMAIN PLAN AND PROFILE
STA. 3+660 TO STA. 3+860

Project no. 30192375
Drawing no. U1213
Revision no. C



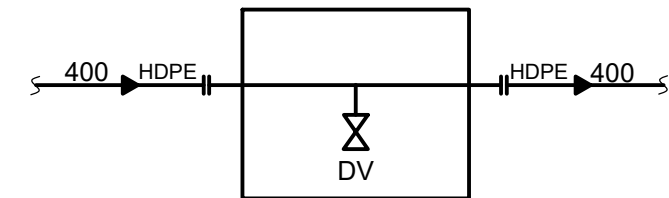
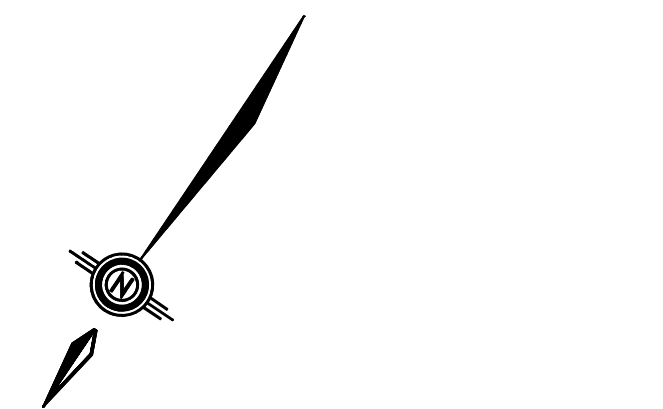
1085 Mivvik Street, P.O. Box 460
Iqaluit NU X0A 0H0 Canada
tel 867 979 5600
www.iqaluit.ca

PRELIMINARY
NOT FOR CONSTRUCTION

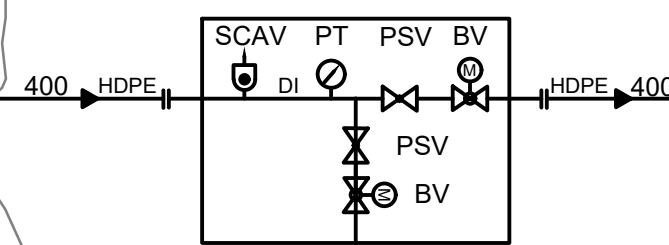


LEGEND:

- GROUND TO BE REMOVED
- FILL ON EX. GROUND



VALVE CHAMBER VC13
SCHEMATIC



VALVE CHAMBER VC12
SCHEMATIC

MATCH LINE 0+000
SEE DWG U213

MATCH LINE 0+300

A
U207 Plan
1 : 500

140 140

135 135

130 130

125 125

120 120

1
U213 Profile
HOR. 1 : 500
VER. 1 : 100

PROP.
WATERMAIN
INVERT
ELEVATION

EXISTING
GROUND
ELEVATION

C/L
CHAINAGE

Designed by
JEC

Drawn by
N.V.

Approved by
G.G.

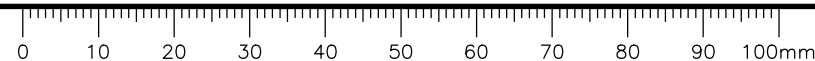
Project Manager
C.G.

Drawing title

CIVIL
PROPOSED AR PUMP STATION
WATERMAIN PLAN AND PROFILE
STA. 0+00 TO STA. 0+300

Project no.	Drawing no.	Revision no.
30192375	U1214	C

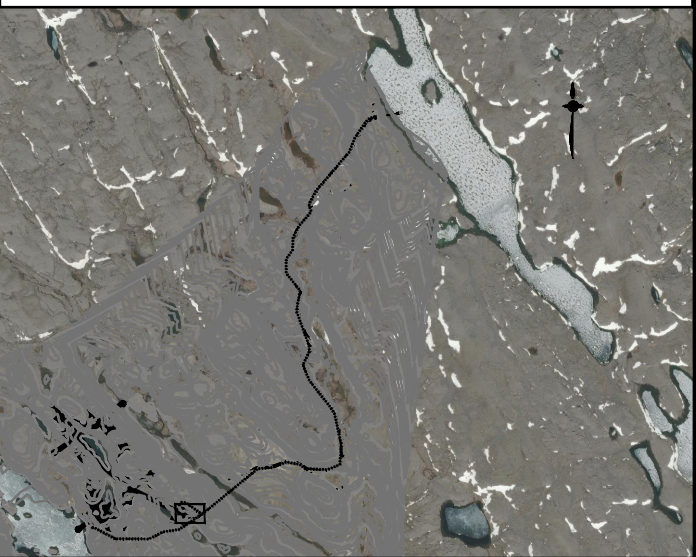
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1085 Mivvik Street, P.O. Box 460
Iqaluit NU X0A 0H0 Canada
tel 867 979 5600
www.iqaluit.ca

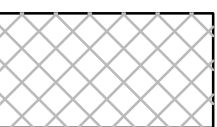
PRELIMINARY
NOT FOR CONSTRUCTION



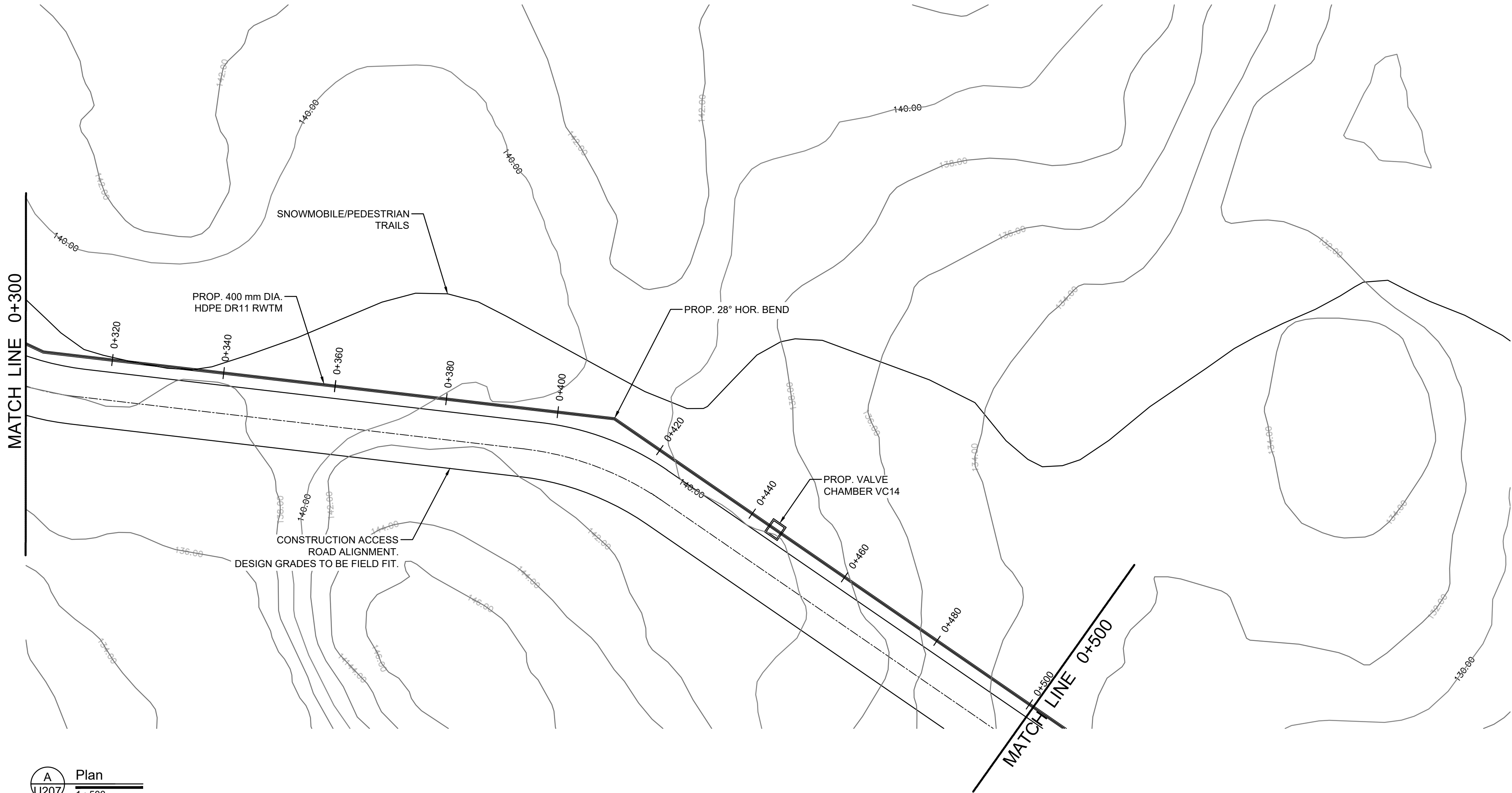
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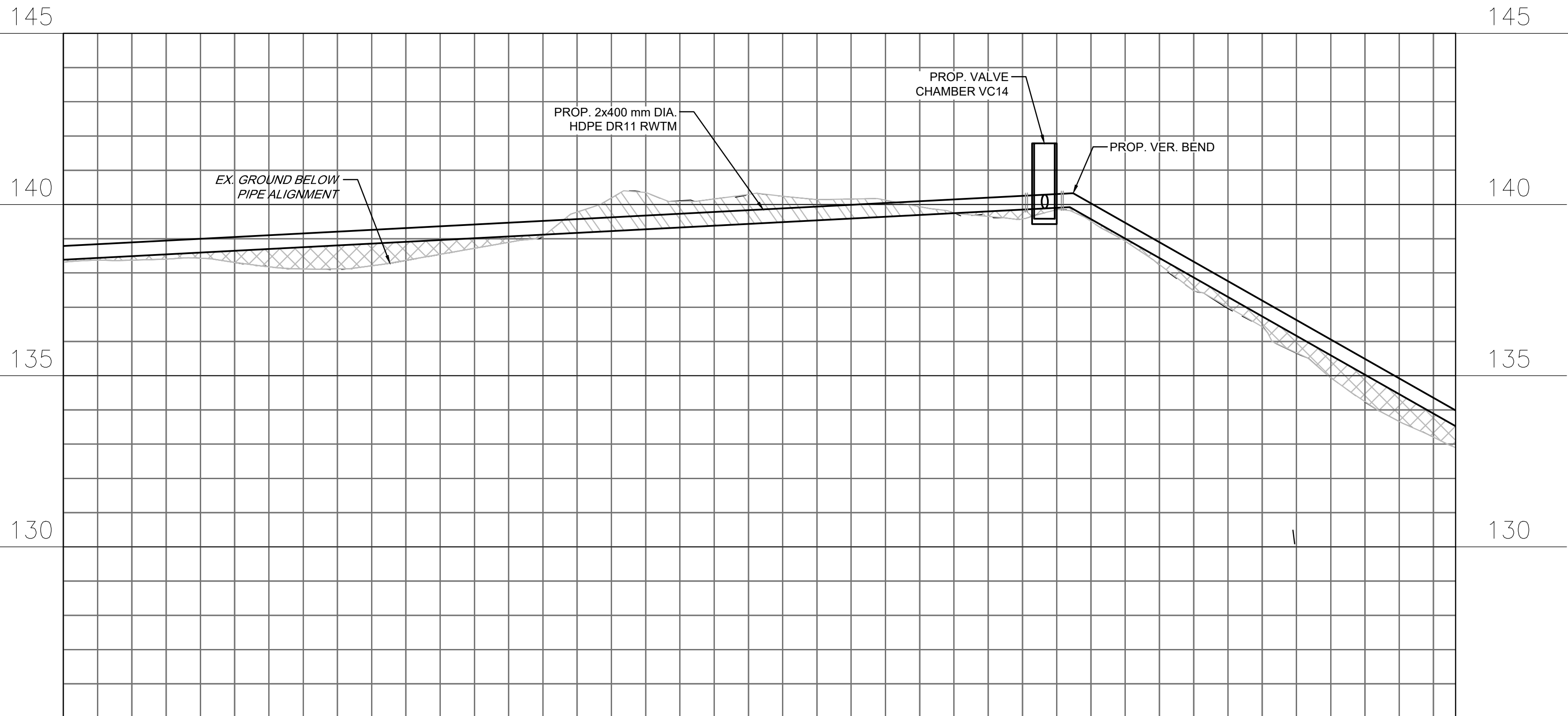
- GROUND TO BE REMOVED



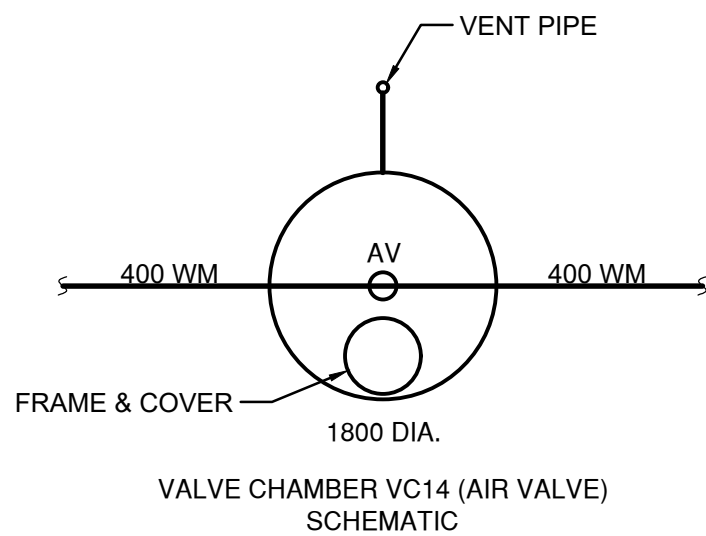
- FILL ON EX. GROUND



A
U207
Plan
1 : 500



1
U213
Profile
HOR. 1 : 500
VER. 1 : 100



PROP.
WATERMAIN
INVERT
ELEVATION

EXISTING
GROUND
ELEVATION

C/L
CHAINAGE

Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN (REVISED)	2025-09-26

Consultant

ARCADIS

8133 Warden Avenue - Unit 300
Markham ON L6G 1B3 Canada
tel 905 763 2322
www.arcadis.com

Project title

**IQUALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
JEC

Drawn by
N.V.

Approved by
G.G.

Project Manager
C.G.

Drawing title

**CIVIL
PROPOSED AR PUMP STATION
WATERMAIN PLAN AND PROFILE STA. 0
+300 TO STA. 0+500**

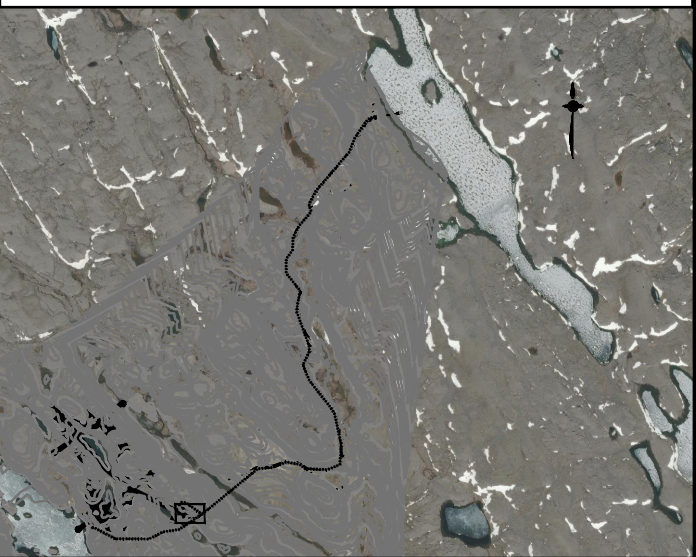
Project no.	Drawing no.	Revision no.
30192375	U1215	C

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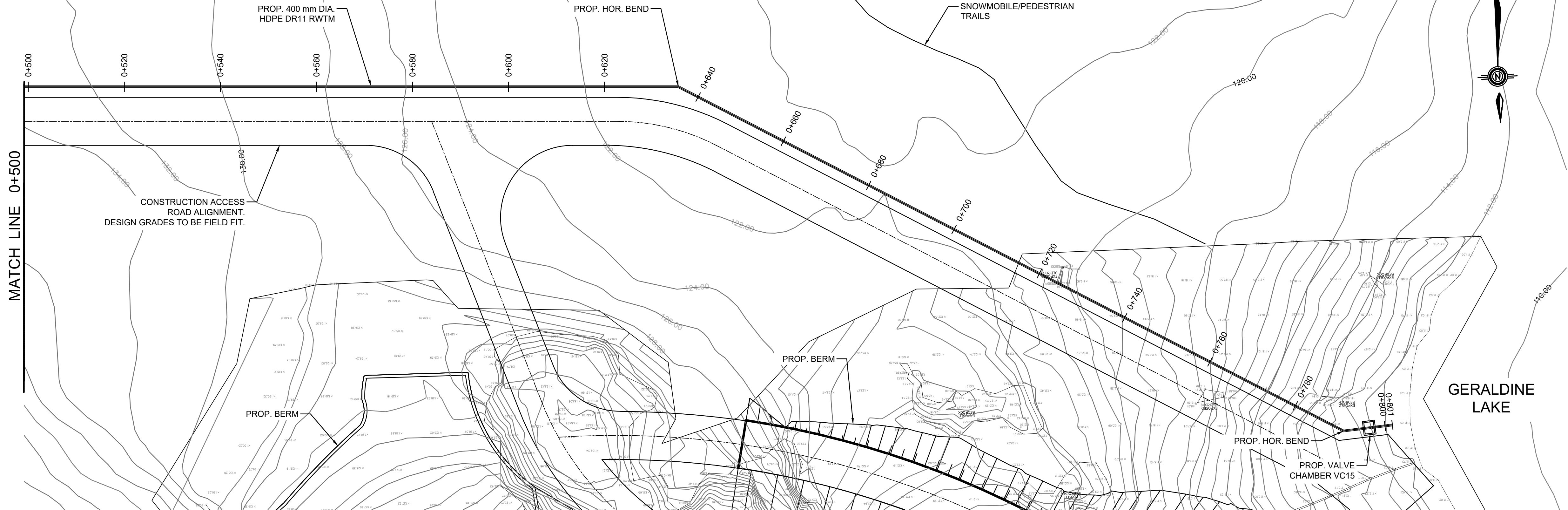
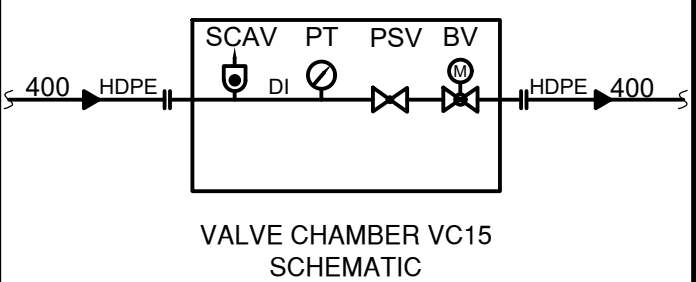
1085 Mivvik Street, P.O. Box 460
Iqaluit NU X0A 0H0 Canada
tel 867 979 5600
www.iqaluit.ca

PRELIMINARY
NOT FOR CONSTRUCTION



LEGEND:

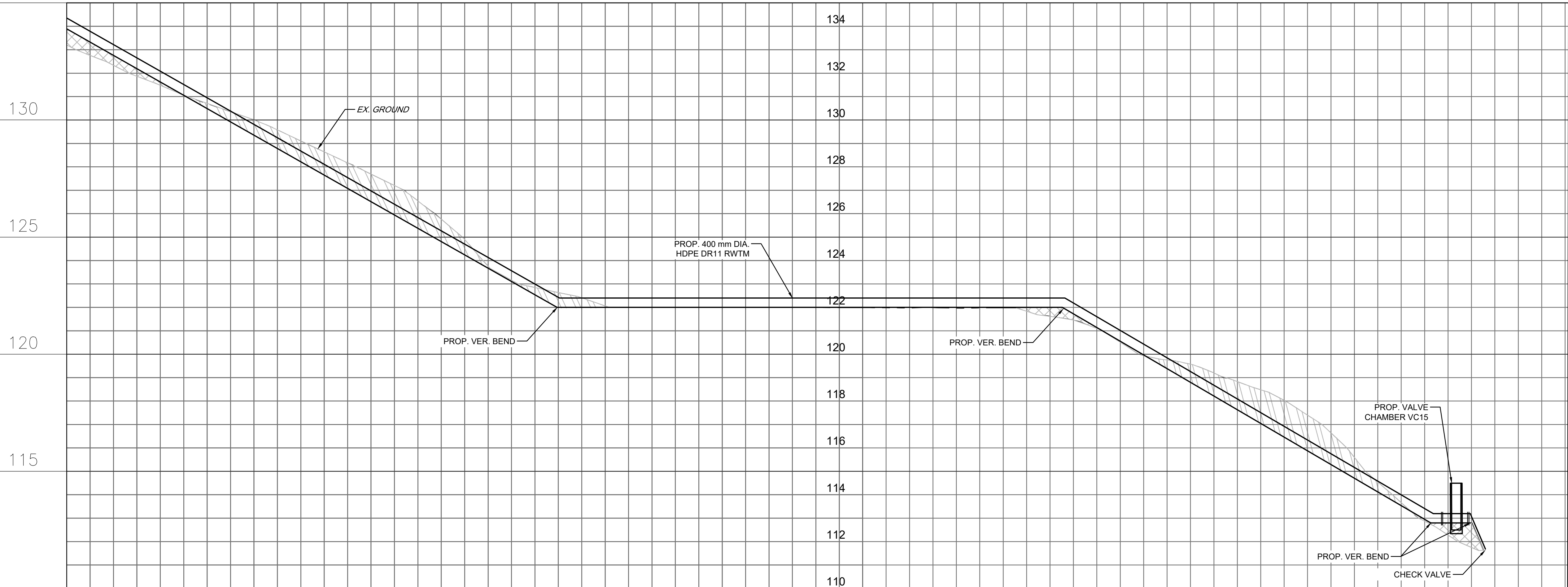
- GROUND TO BE REMOVED
- FILL ON EX. GROUND



A
U207 Plan
1 : 500

135

135



1
U213 Profile
HOR. 1 : 500
VER. 1 : 100

PROP. WATERMAIN
INVERT
ELEVATION

EXISTING
GROUND
ELEVATION

C/L
CHAINAGE

Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN (REVISED)	2025-09-26



8133 Warden Avenue - Unit 300
Markham ON L6G 1B3 Canada
tel 905 763 2322
www.arcadis.com

Project title
**IQUALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
JEC

Drawn by
N.V.

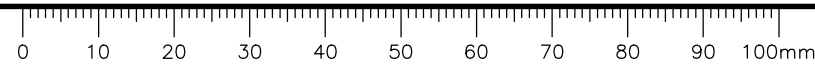
Approved by
G.G.

Project Manager
C.G.

Drawing title
**CIVIL
PROPOSED AR PUMP STATION
WATERMAIN PLAN AND PROFILE
STA. 0+500 TO STA. 0+800**

Project no.	Drawing no.	Revision no.
30192375	U1216	C

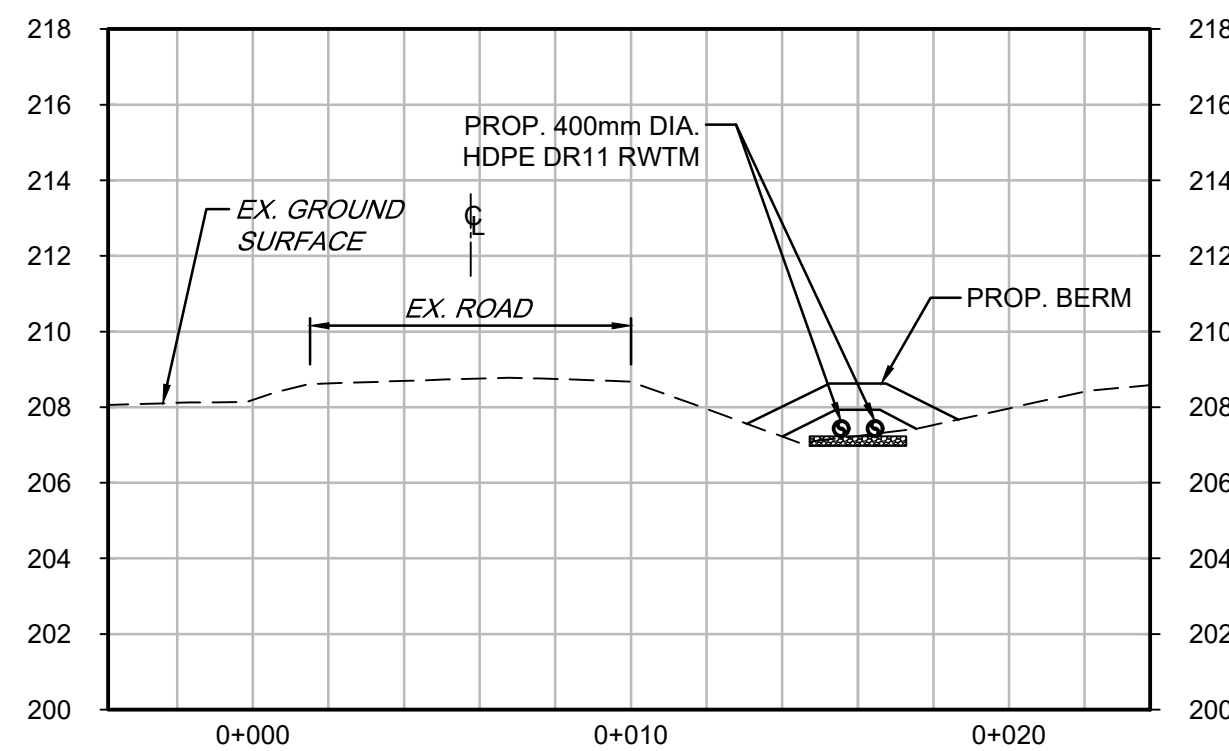
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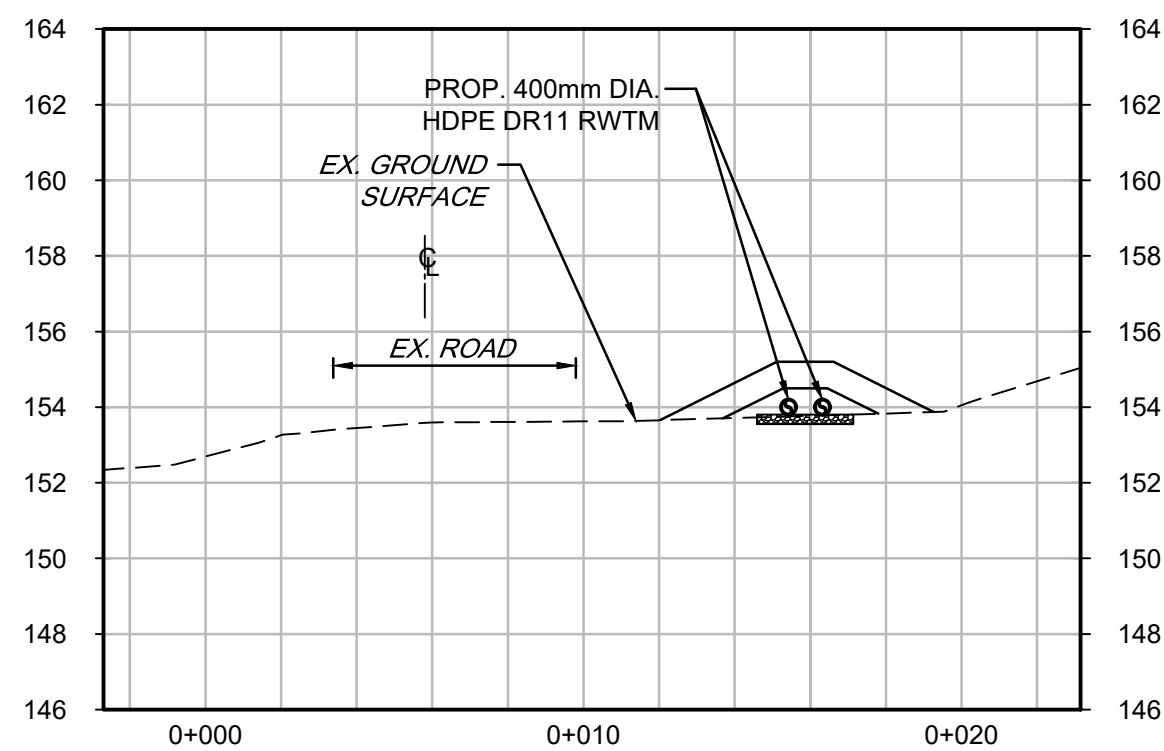


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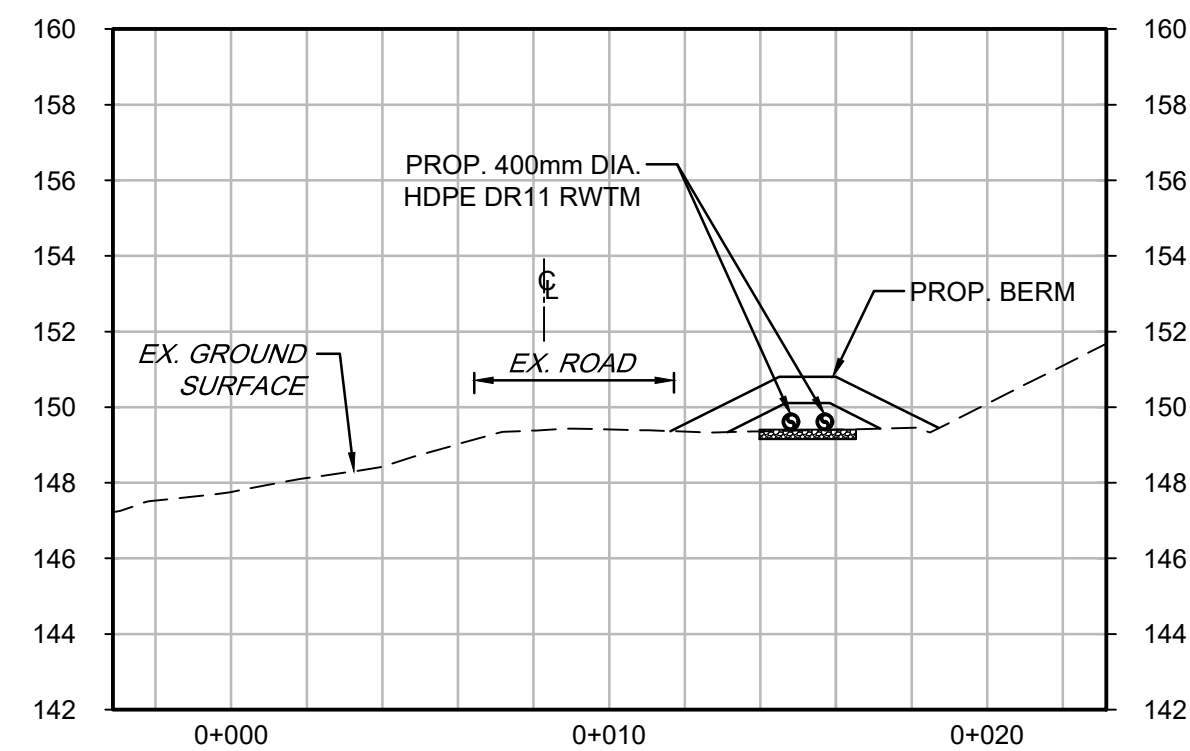
PRELIMINARY
NOT FOR CONSTRUCTION



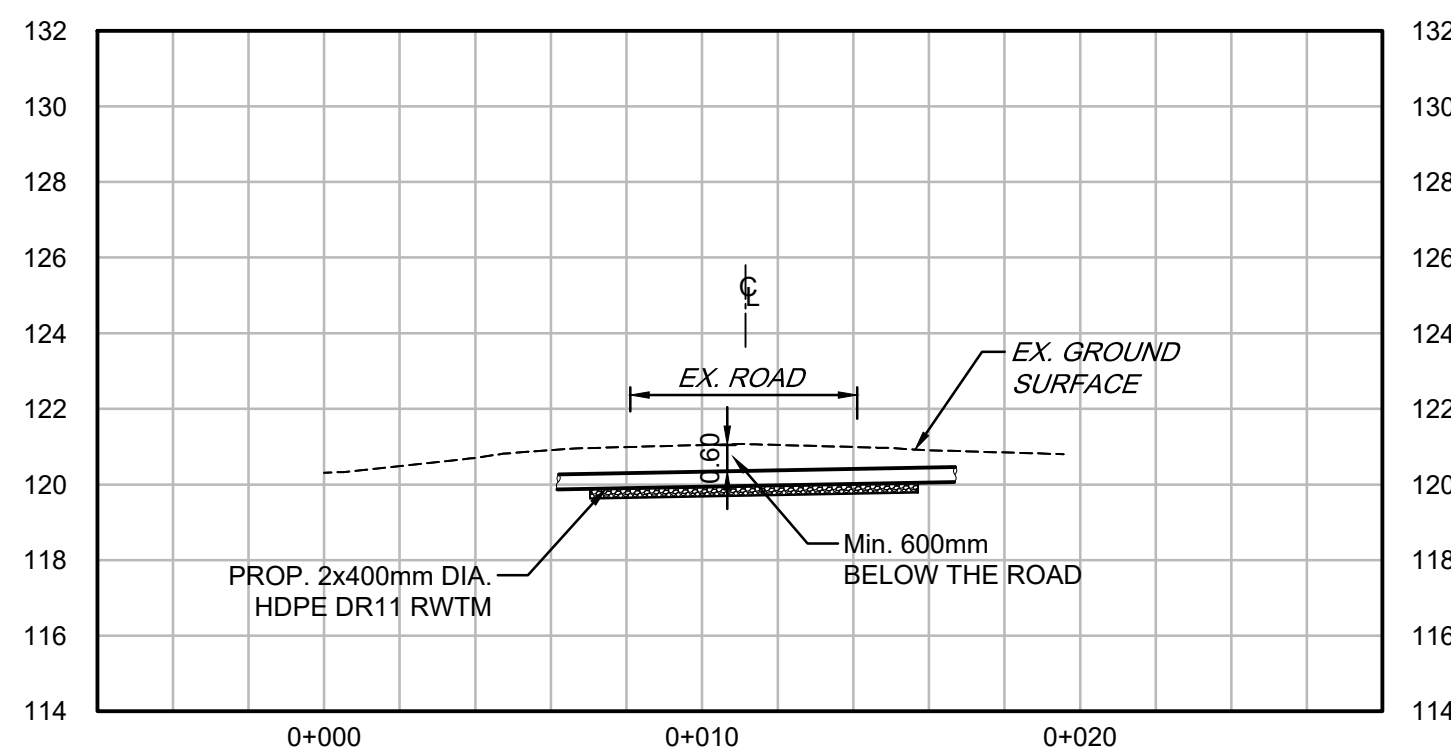
A
U201
SECTION @ STA. 0+130.00
1 : 200



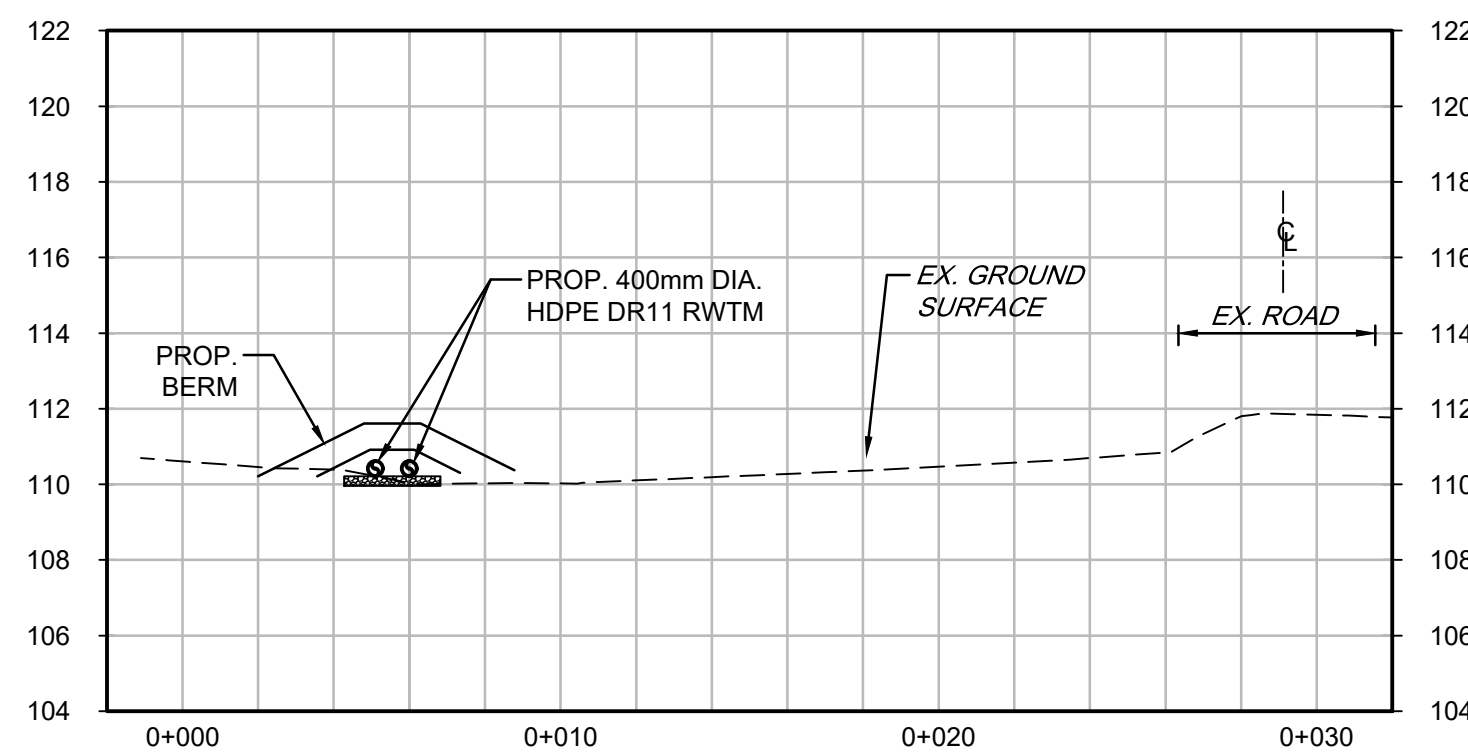
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U204
SECTION @ STA. 0+995.00
1 : 200



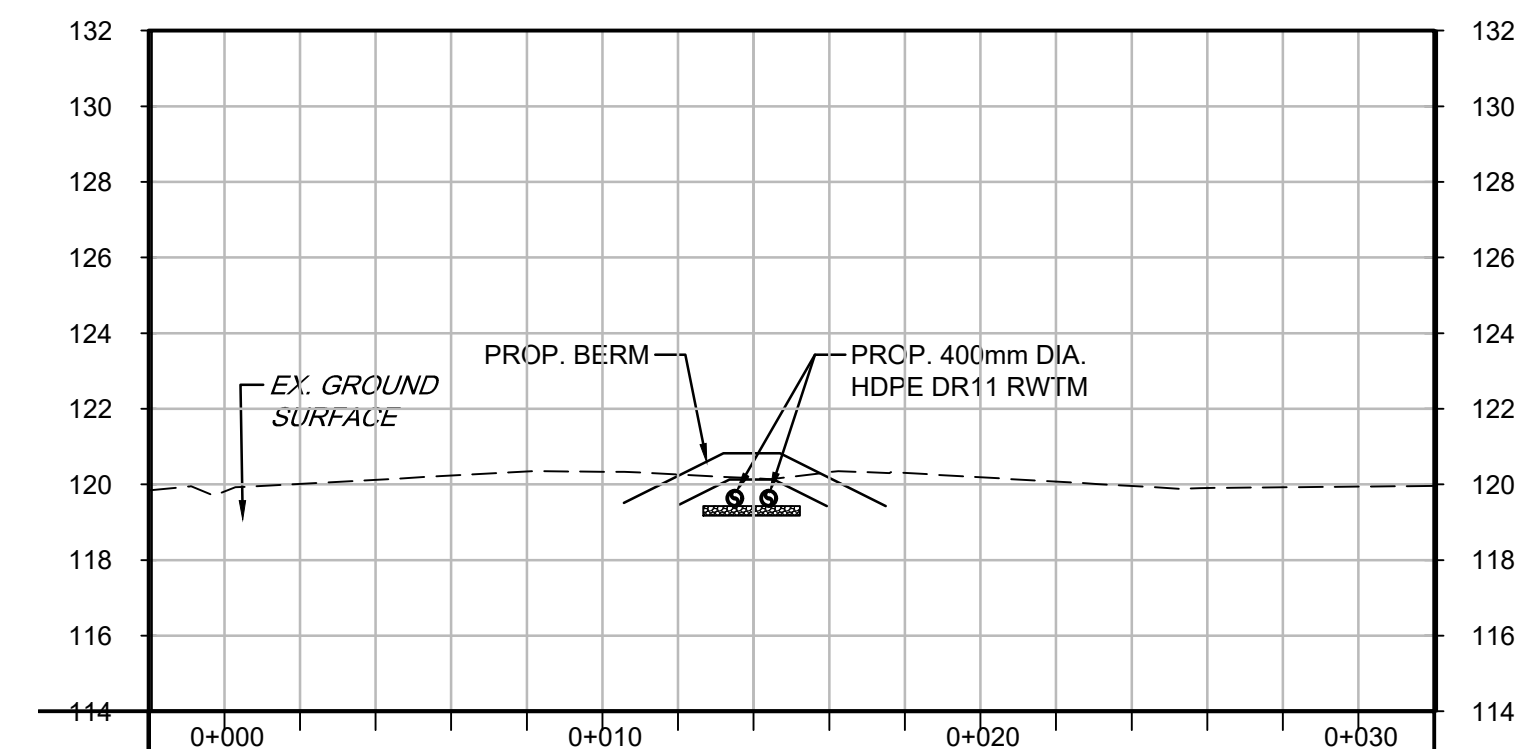
C
U205
SECTION @ STA. 1+270.00
1 : 200



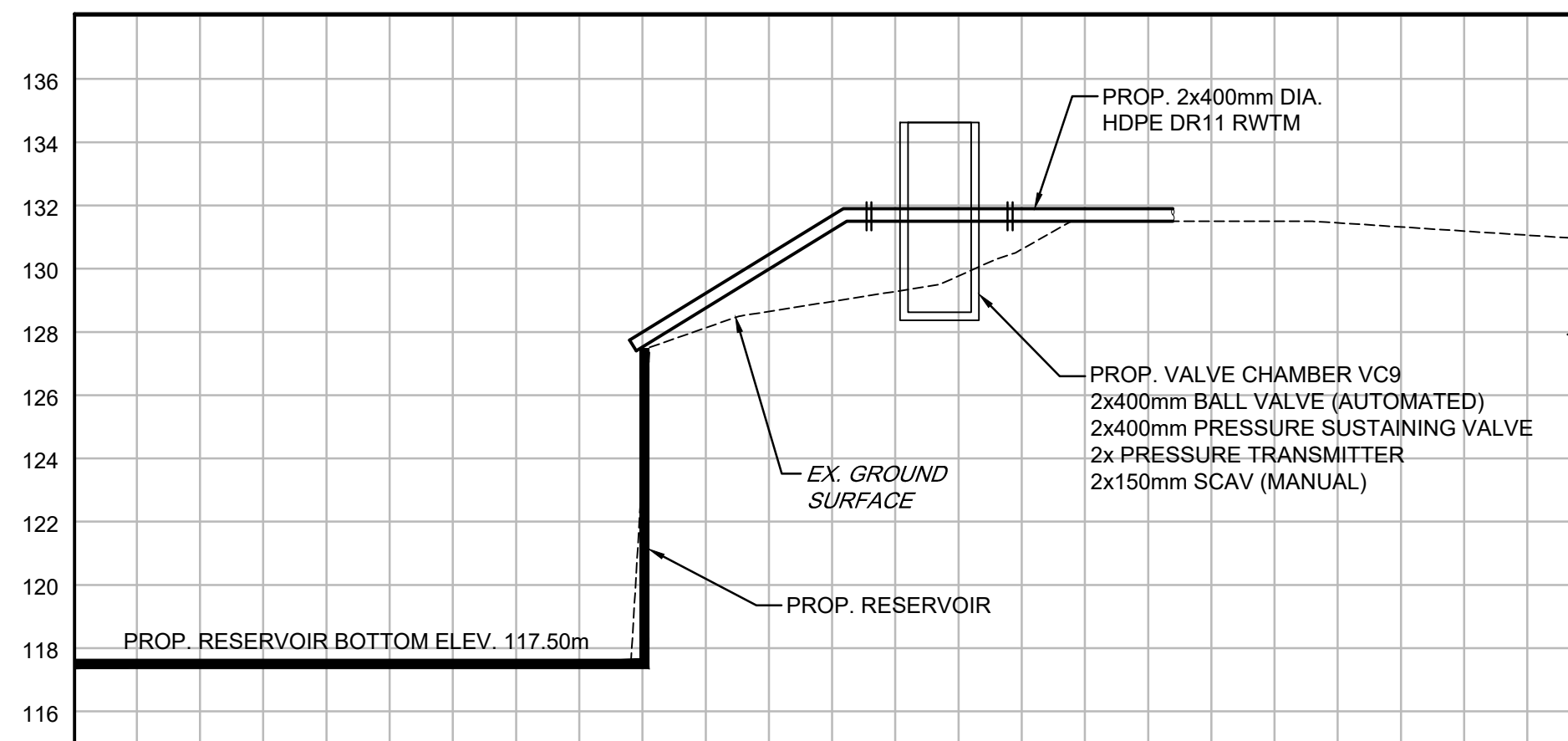
D
U210
SECTION @ STA. 2+880.00
1 : 200



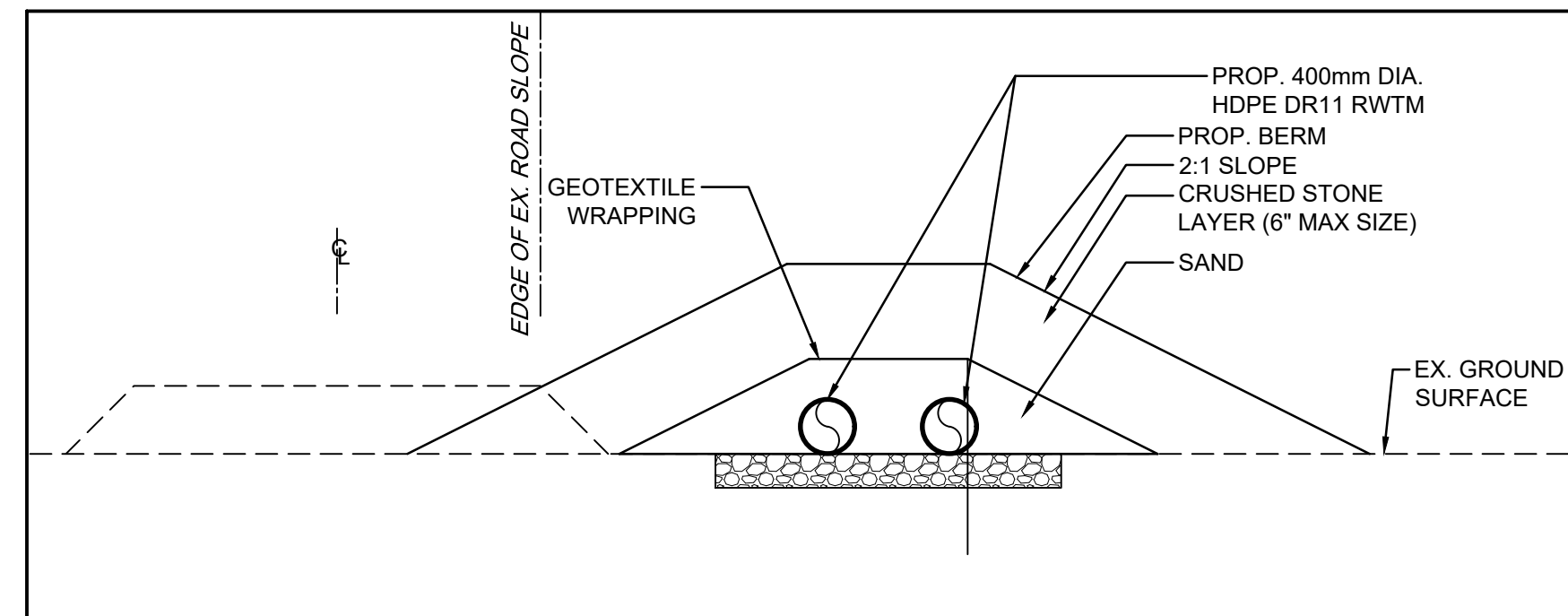
E
U211
SECTION STA. 3+310.00
1 : 200



F
U212
SECTION @ STA. 3+845.00
1 : 200



G
U213
SECTION @ RESERVOIR OUTLET
1 : 200



TYPICAL SECTION
1 : 50

Revision	Description	Date
B	ISSUED FOR PRELIMINARY DESIGN	2024-03-22
A	ISSUED FOR CONCEPT DESIGN	2023-11-27

Consultant	ARCADIS
Project title	LONG TERM WATER PROGRAM RAW WATER SUPPLY AND STORAGE

Designed by O.N.	Drawn by L.E.	Approved by G.G.	Project Manager C.G.
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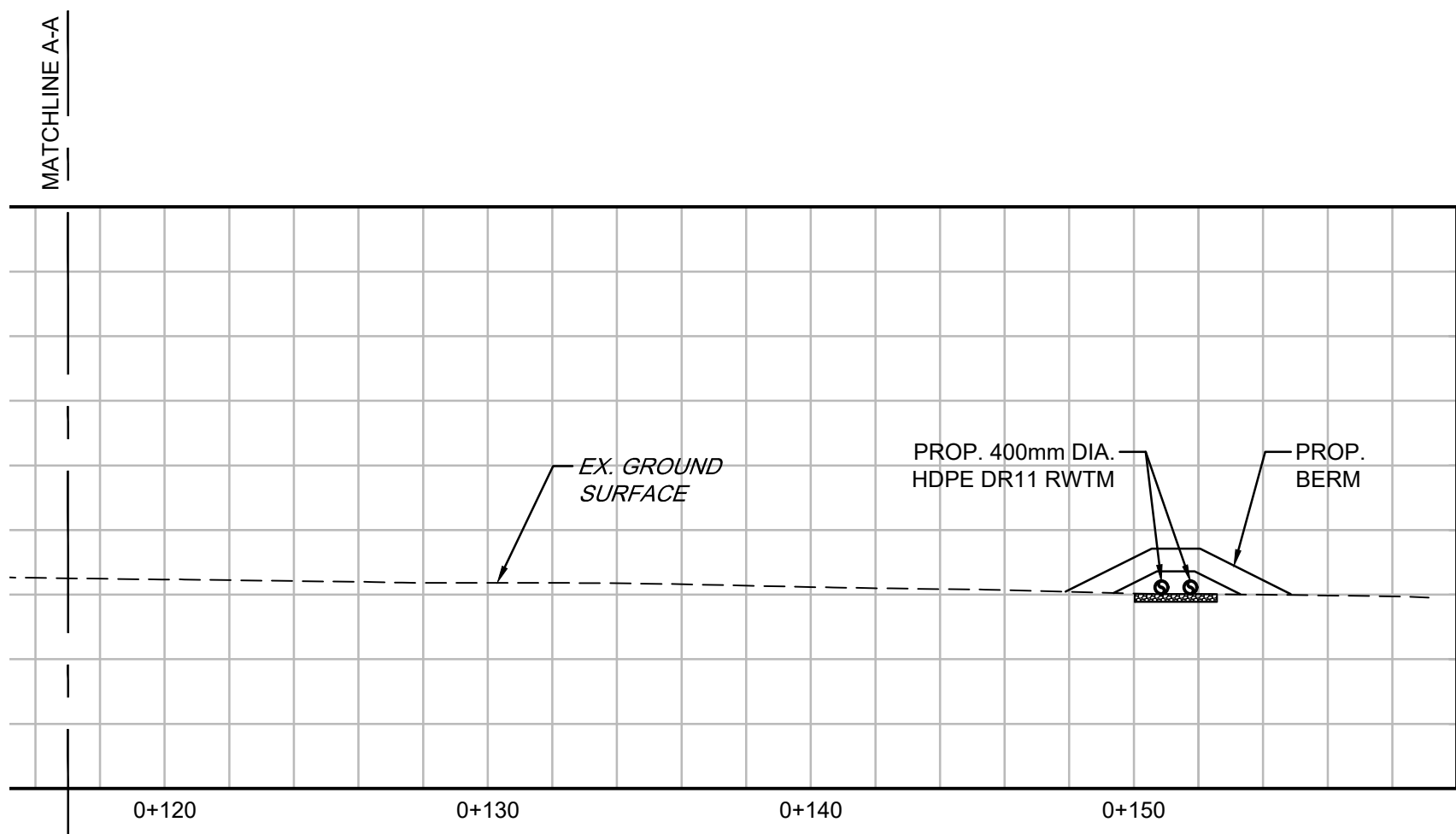
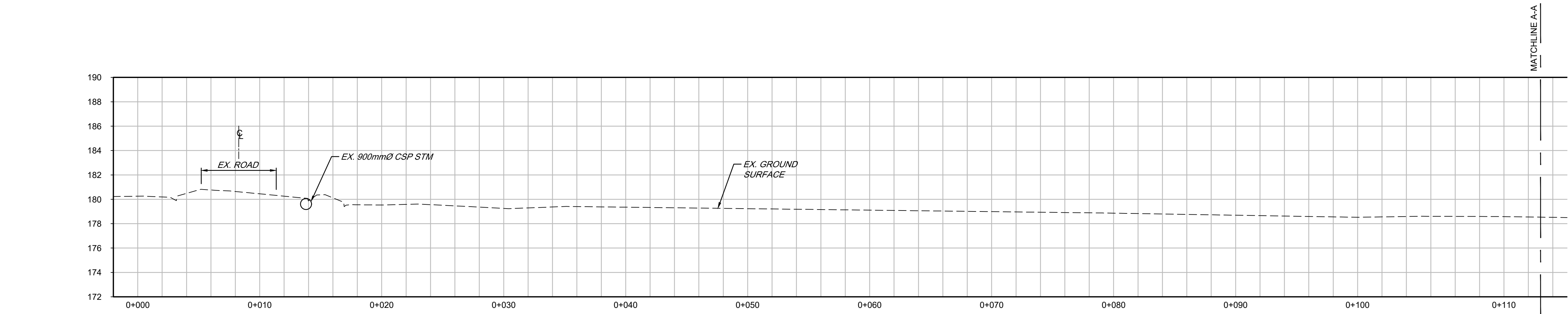
Drawing title	CIVIL
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Project no.	30192375	Drawing no.	U301	Revision no.	B
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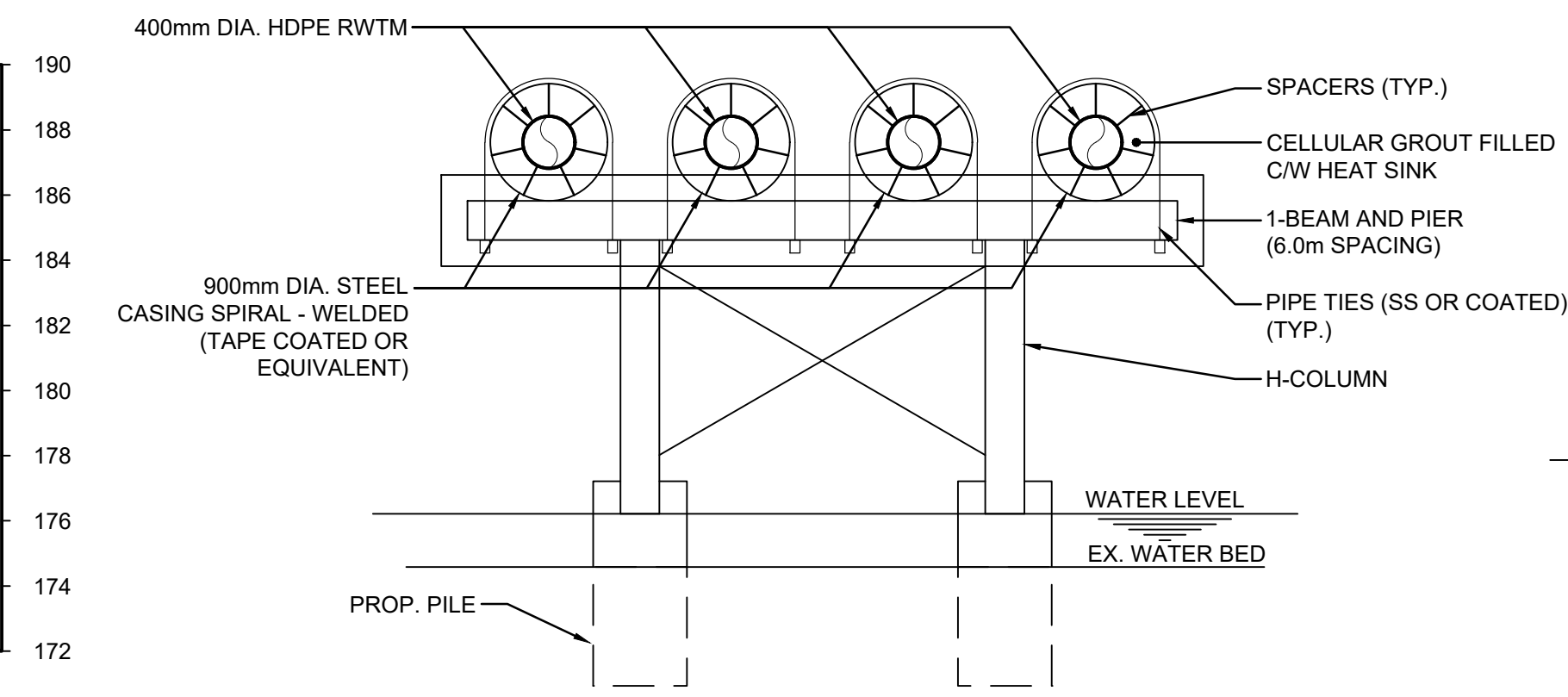


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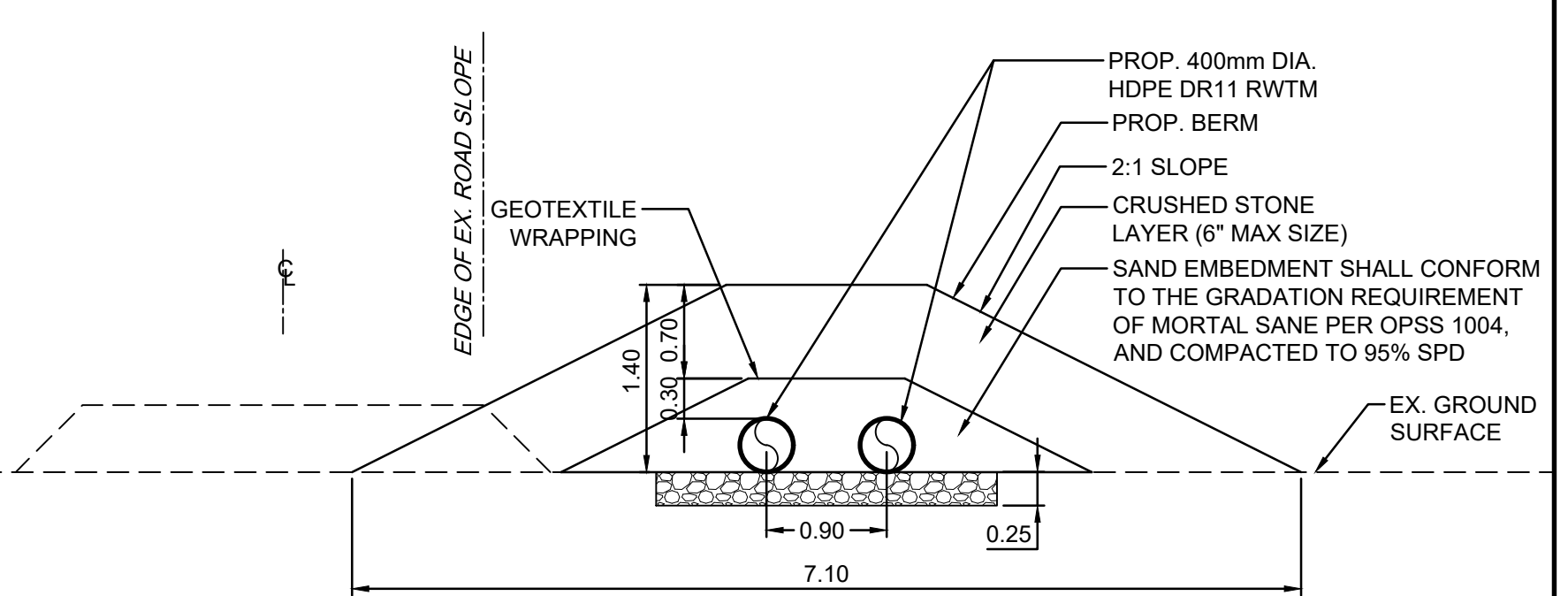
PRELIMINARY
NOT FOR CONSTRUCTION



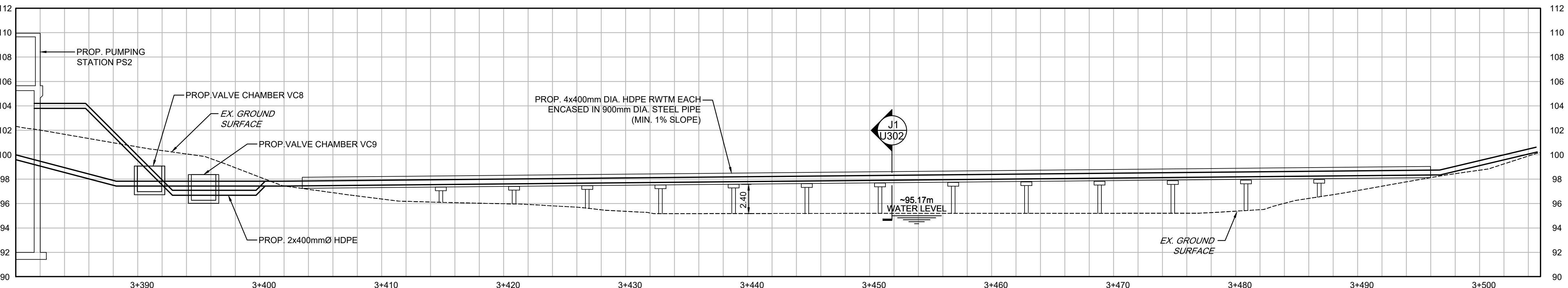
SECTION @ STA. 0+450.00
1 : 200



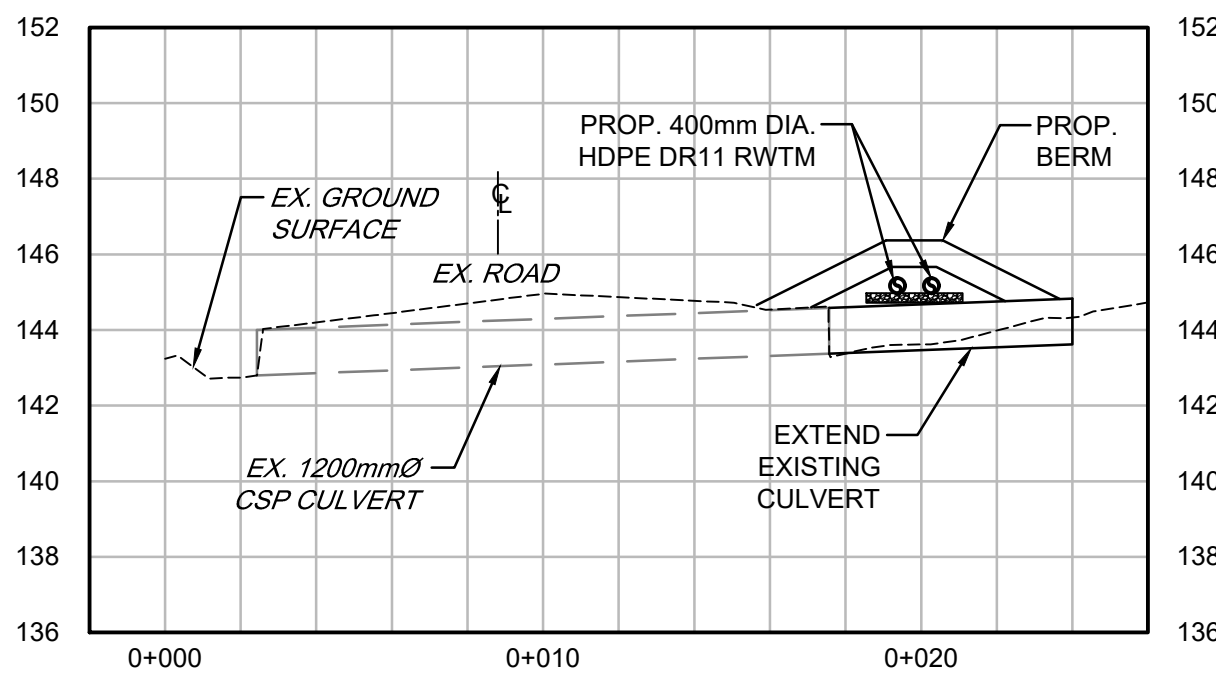
J1 U302 SECTION
N.T.S.



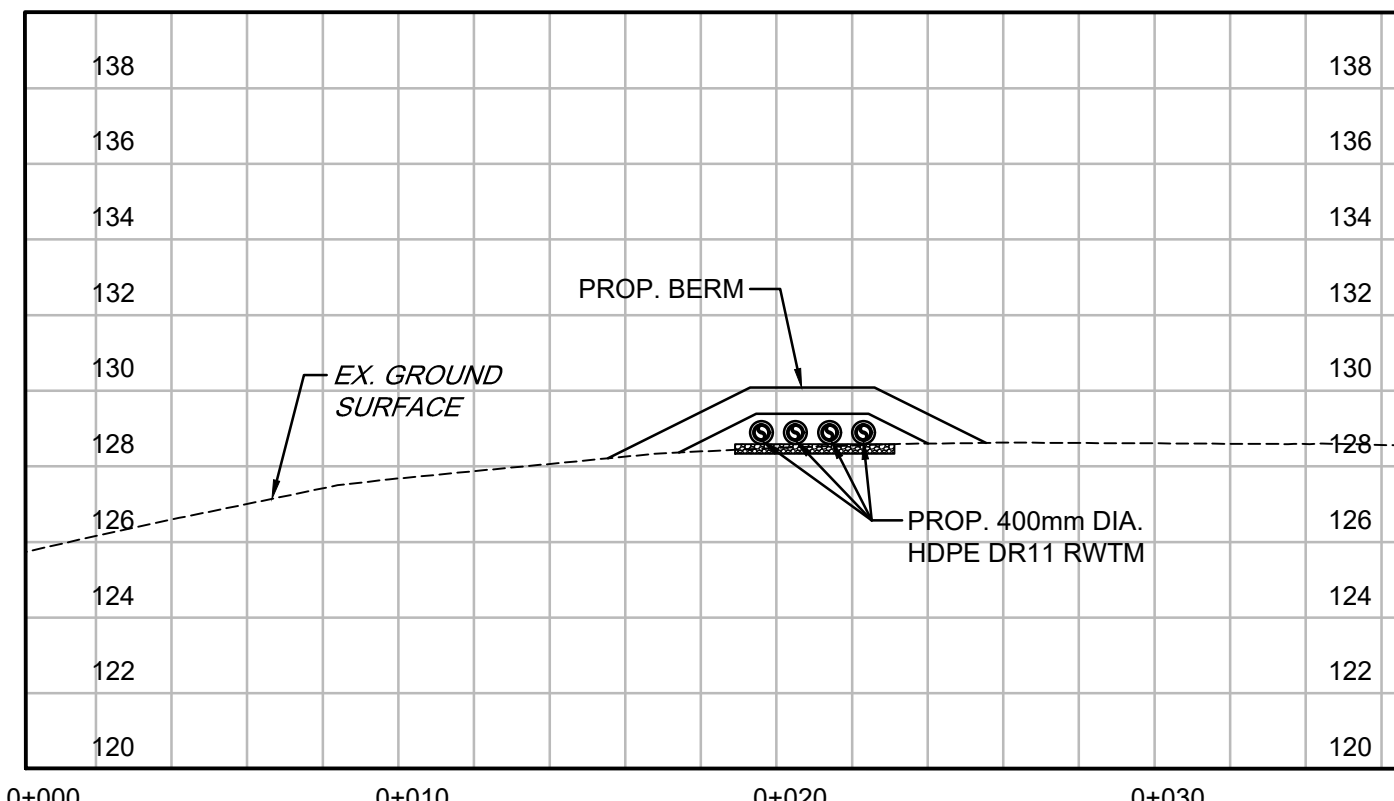
TYPICAL SECTION
1 : 50



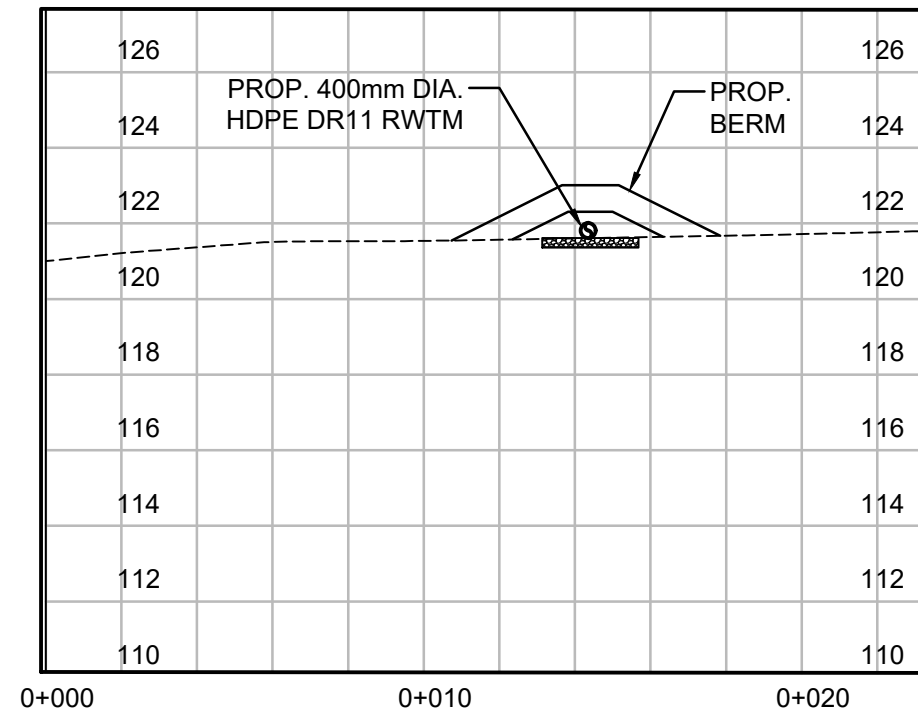
J SECTION ALONG APEX RIVER
1 : 200



K TYPICAL SECTION CROSSING OVER CULVERT (STA. 1+200)
1 : 200



L SECTION @ STA. 3+350
1 : 200



M SECTION @ STA. 0+062
1 : 200

Revision	Description	Date
C	ISSUED FOR PRELIMINARY DESIGN (REVISED)	2025-09-26

Consultant

ARCADIS

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Project title

**IQUALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by JEC
Drawn by L.E.
Approved by G.G.
Project Manager C.G.

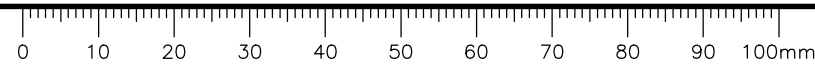
Drawing title

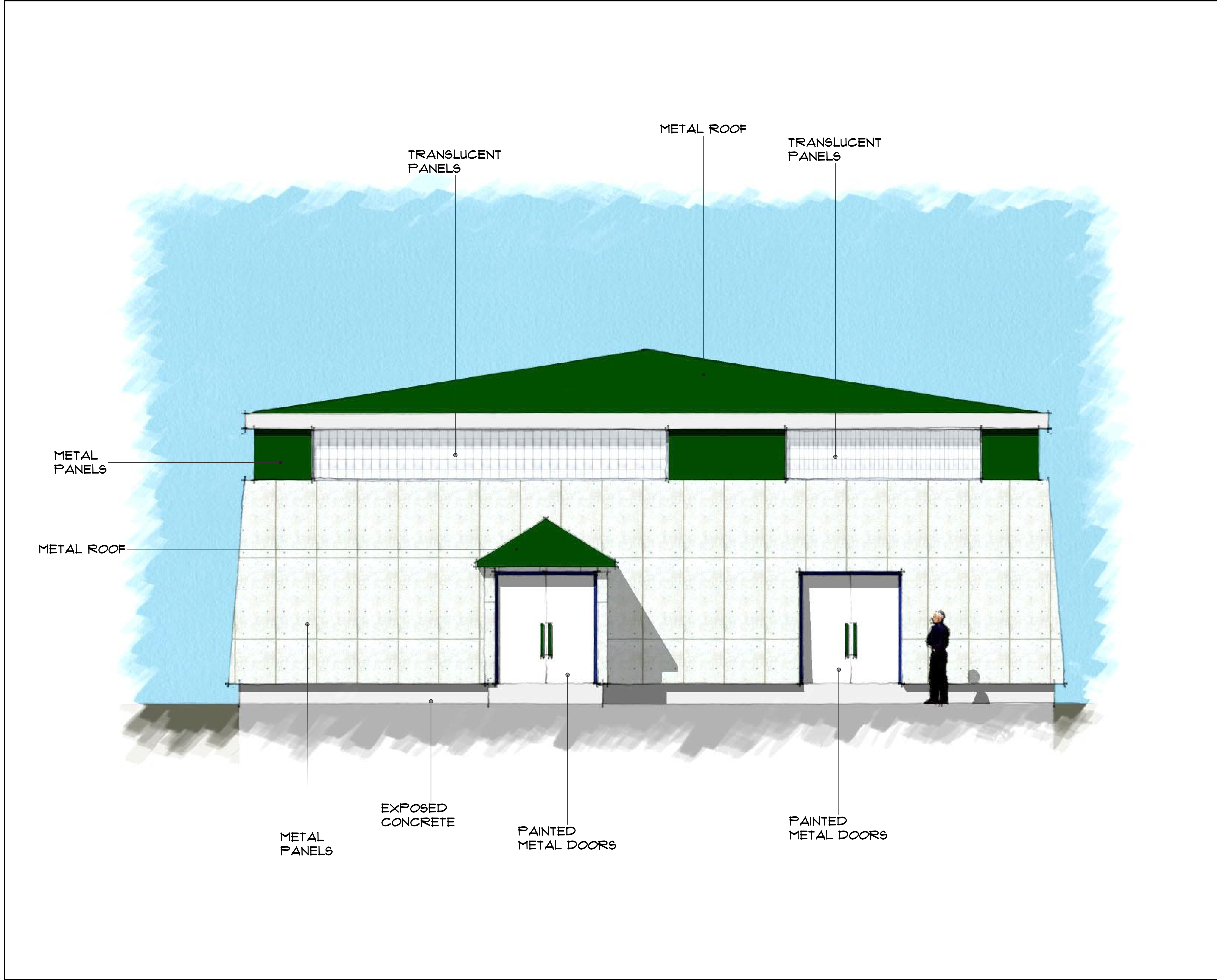
CIVIL

**WATERMAIN CROSS SECTIONS
2 OF 2**

Project no.	Drawing no.	Revision no.
30192375	U302	C

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PRELIMINARY
NOT FOR CONSTRUCTION

Revision	Description	Date
A	ISSUED FOR CONCEPT DESIGN	2023-03-22

Consultant

 **ARCADIS**

121 Granton Drive, Suite 12
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Project title

**IQALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE**

Designed by
P.D.

Drawn by
A.V.

Approved by
M.J.

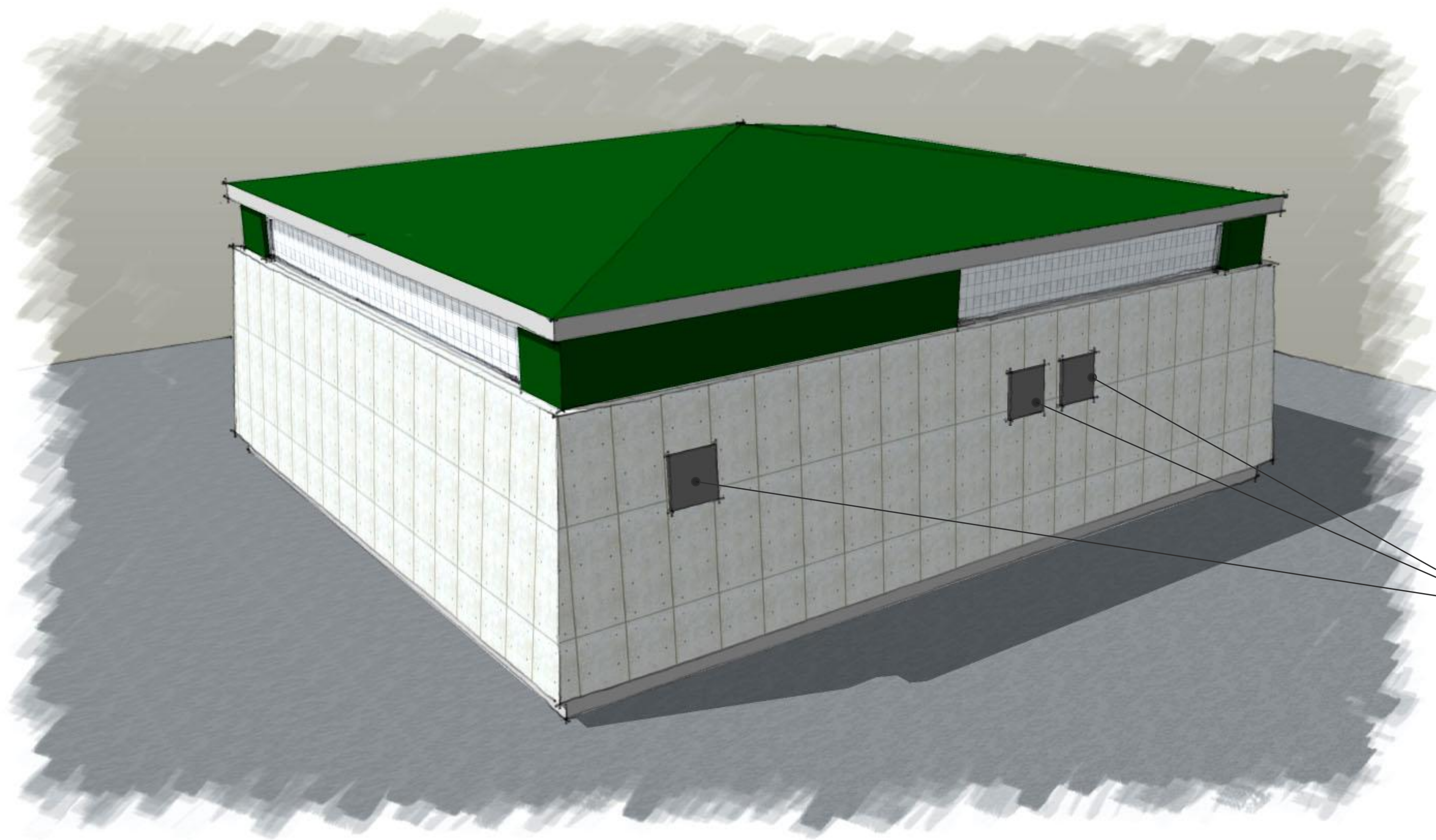
Project Manager
C.G.

Drawing title

**ARCHITECTURAL

PUMP STATION
BUILDING ELEVATION**

Project no.	Drawing no.	Revision no.
30192375	A001	A



NORHT EAST VIEW -
CONCEPTUAL



SOUTH EAST VIEW -
CONCEPTUAL



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Revision	Description	Date
A	ISSUED FOR CONCEPT DESIGN	2023-03-22

Consultant



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Project title

IQALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by
P.D.

Drawn by
A.V.

Approved by
M.J.

Project Manager
C.G.

Drawing title

ARCHITECTURAL

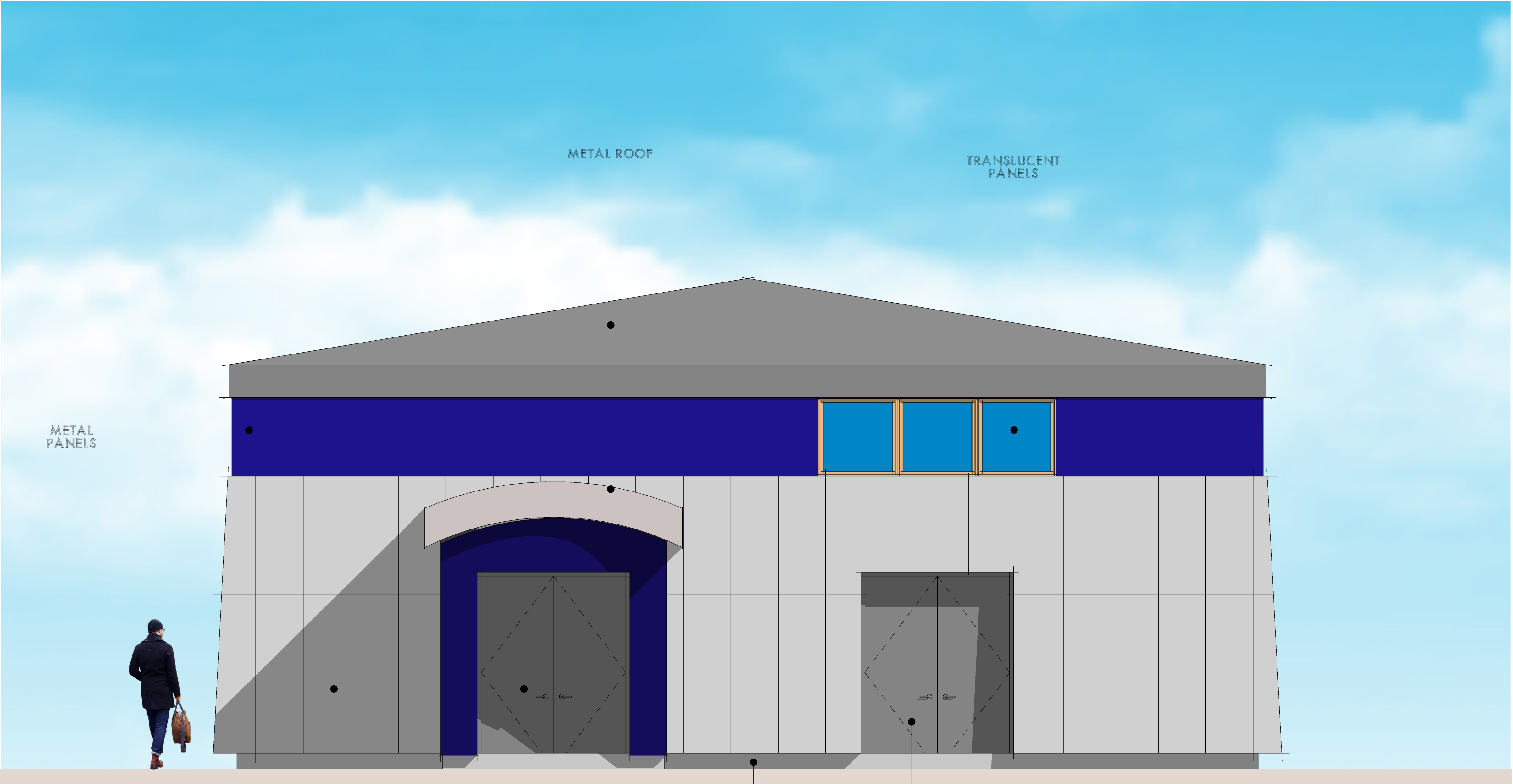
PUMP STATION
EXTERIOR VIEWS

Project no.	Drawing no.	Revision no.
30192375	A002	A



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Revision	Description	Date
A	ISSUED FOR PRELIMINARY DESIGN (REVISED)	2025-09-28



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IQALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by
MK
Drawn by
MK
Approved by
MJ
Project Manager
C.G.

ARCHITECTURAL

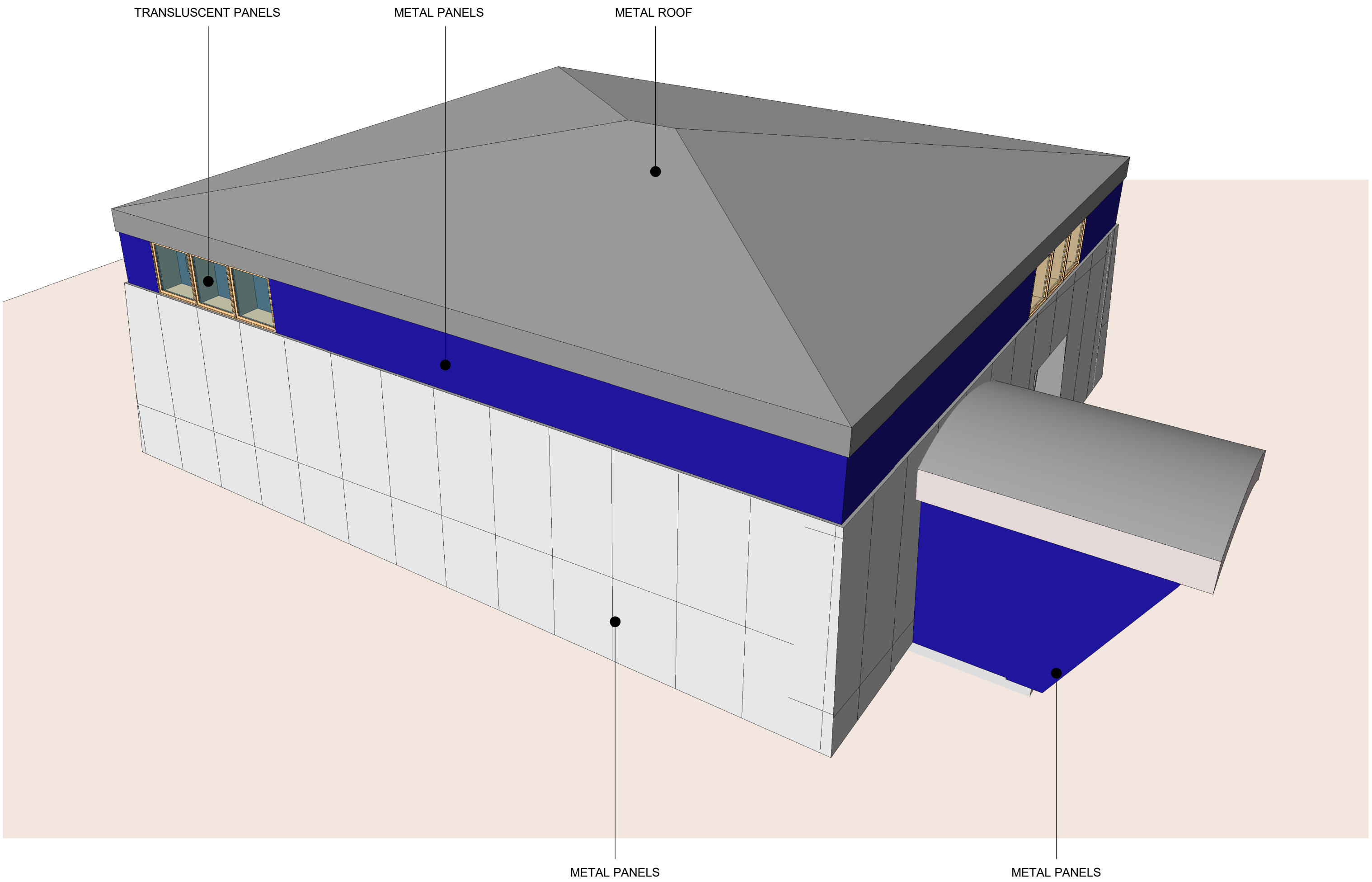
AR PUMP STATION
CONCEPTUAL ELEVATION

Project no.	Drawing no.	Revision no.
30288139	A1100	C



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IQALUIT
LONG TERM WATER PROGRAM
RAW WATER SUPPLY
AND STORAGE

Designed by

MK

Drawn by

MK

Approved by

MJ

Project Manager

C.G.

Drawing title

ARCHITECTURAL

AR PUMP STATION
CONCEPTUAL EXTERIOR
VIEWS

Project no.

30288139

Drawing no.

A1101

Revision no.

C