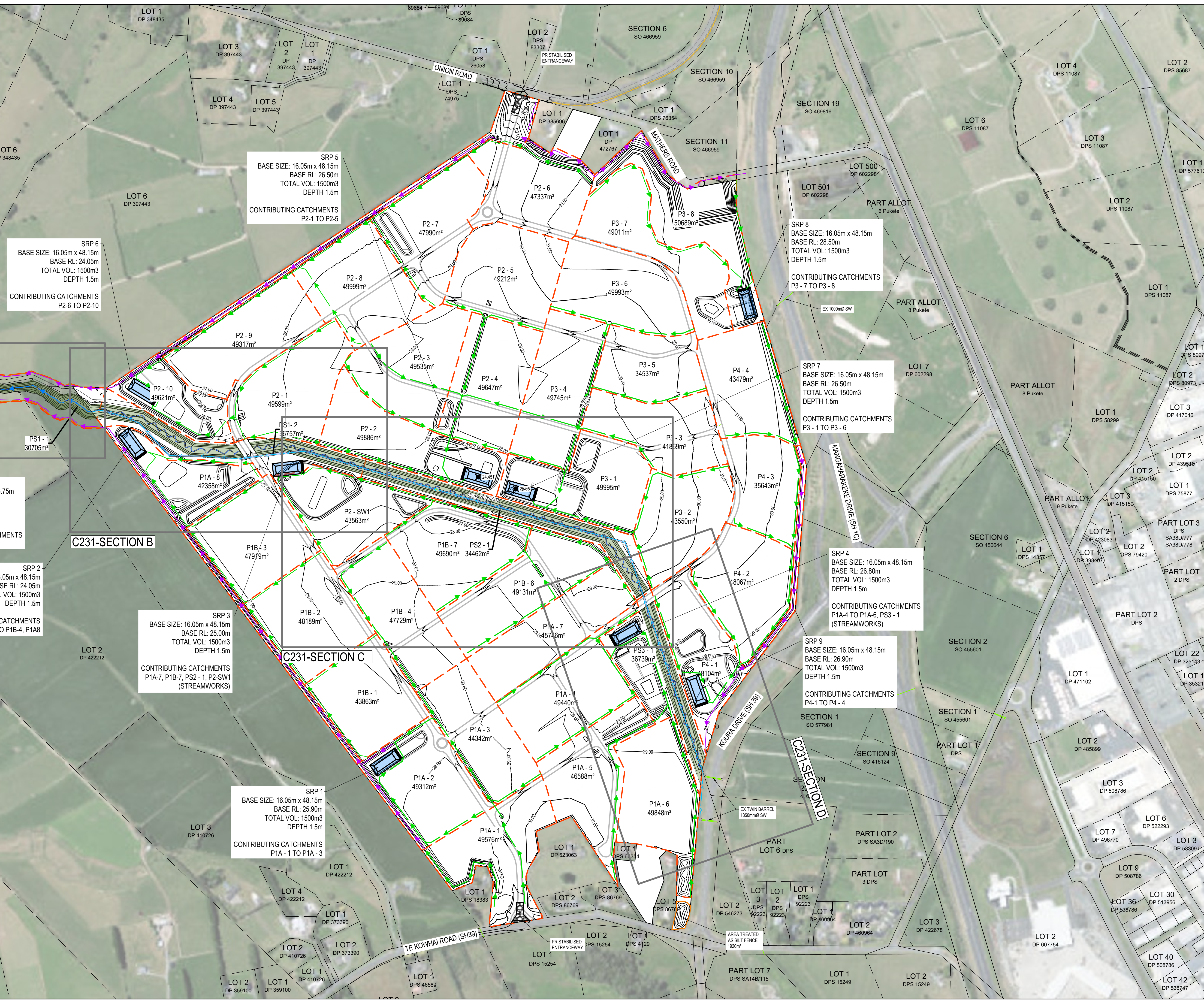




SRP 6
BASE SIZE: 16.05m x 48.15m
BASE RL: 24.05m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P2-6 TO P2-10

SRP 5
BASE SIZE: 16.05m x 48.15m
BASE RL: 26.50m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P2-1 TO P2-5

SRP 8
BASE SIZE: 16.05m x 48.15m
BASE RL: 28.50m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P3 - 7 TO P3 - 8

SRP 7
BASE SIZE: 16.05m x 48.15m
BASE RL: 26.50m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P3 - 1 TO P3 - 6

SRP 4
BASE SIZE: 16.05m x 48.15m
BASE RL: 26.80m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P1A-4 TO P1A-6, PS3 - 1
(STREAMWORKS)

SRP 9
BASE SIZE: 16.05m x 48.15m
BASE RL: 26.90m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P4-1 TO P4 - 4

SRP 1
BASE SIZE: 16.05m x 48.15m
BASE RL: 25.90m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P1A - 1 TO P1A - 3

SRP 3
BASE SIZE: 16.05m x 48.15m
BASE RL: 25.00m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P1A-7, P1B-7, PS2 - 1, P2-SW1
(STREAMWORKS)

SRP 2
BASE SIZE: 16.05m x 48.15m
BASE RL: 24.05m
TOTAL VOL: 1500m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
P1B-1 TO P1B-4, P1A8

SRP 2A
BASE SIZE: 11.91m x 35.75m
BASE RL: 24.90m
TOTAL VOL: 900m³
DEPTH 1.5m
CONTRIBUTING CATCHMENTS
PS1-1

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LEGEND

- EX BDY
- PROP BDY
- EX MAJOR CONTOUR
- EX MINOR CONTOUR
- EX CULVERT
- EX STREAM
- STREAM DEWATERING
- PR MAJOR CONTOUR
- PR MINOR CONTOUR
- PR STREAMWORKS EXT
- PR STREAM DIVERSION
- PR CLEANWATER
- PR DIRTYWATER
- PR SILT FENCE
- PR DECANT
- PR DECANT BAR
- PR SEDIMENT RETENTION POND
- PR MODIFIED STREAM

Ref	Revisions	By	Date
A	RESOURCE CONSENT	JD	08/2026

Maven Associates

05 571 0502
maven@ma.co.nz
www.maven.co.nz
5 Chalmers Road, Epsom
Auckland 1050

Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED SEDIMENT EROSION CONTROL PLAN

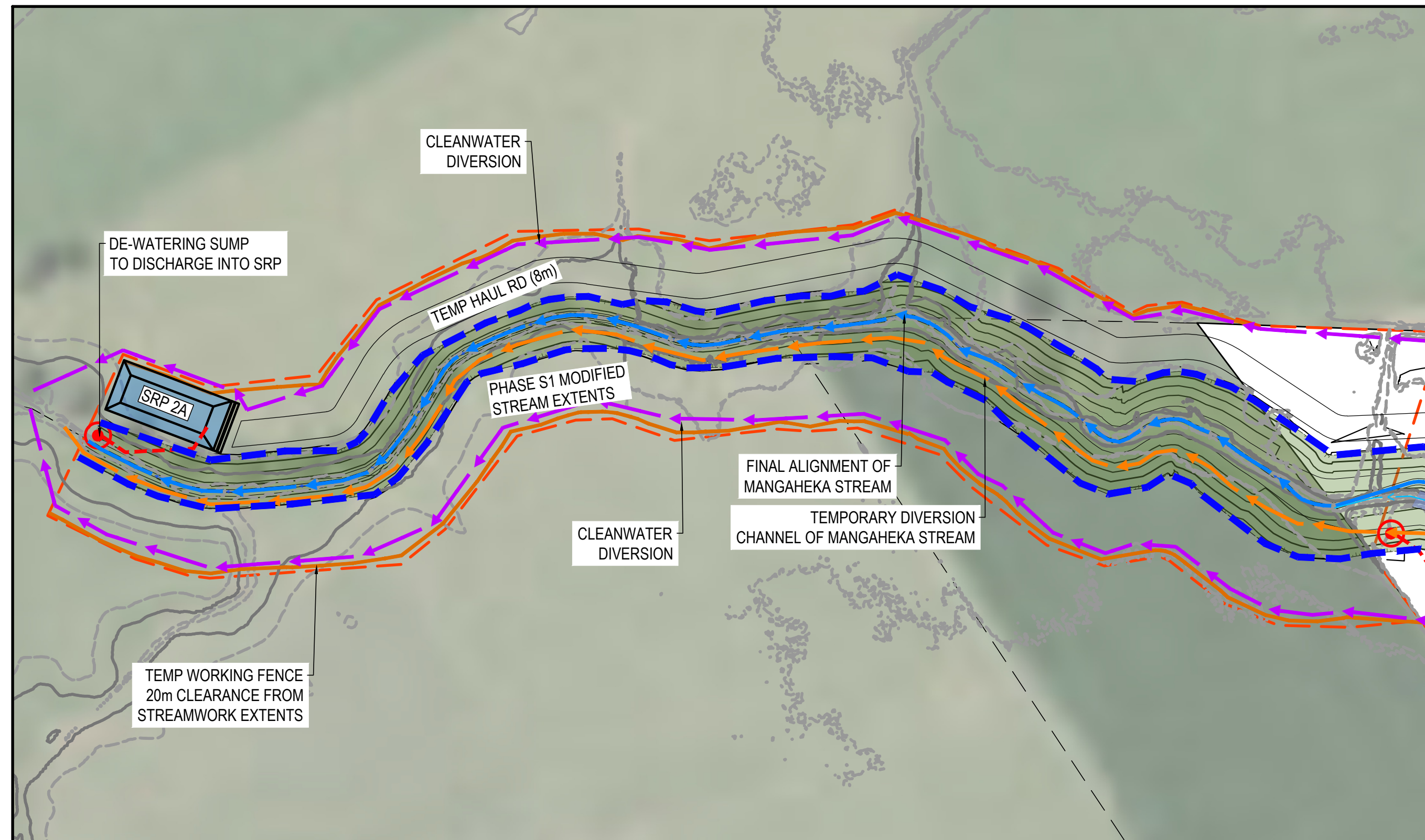
Project no
180010

Scale
1:4000 @ A1

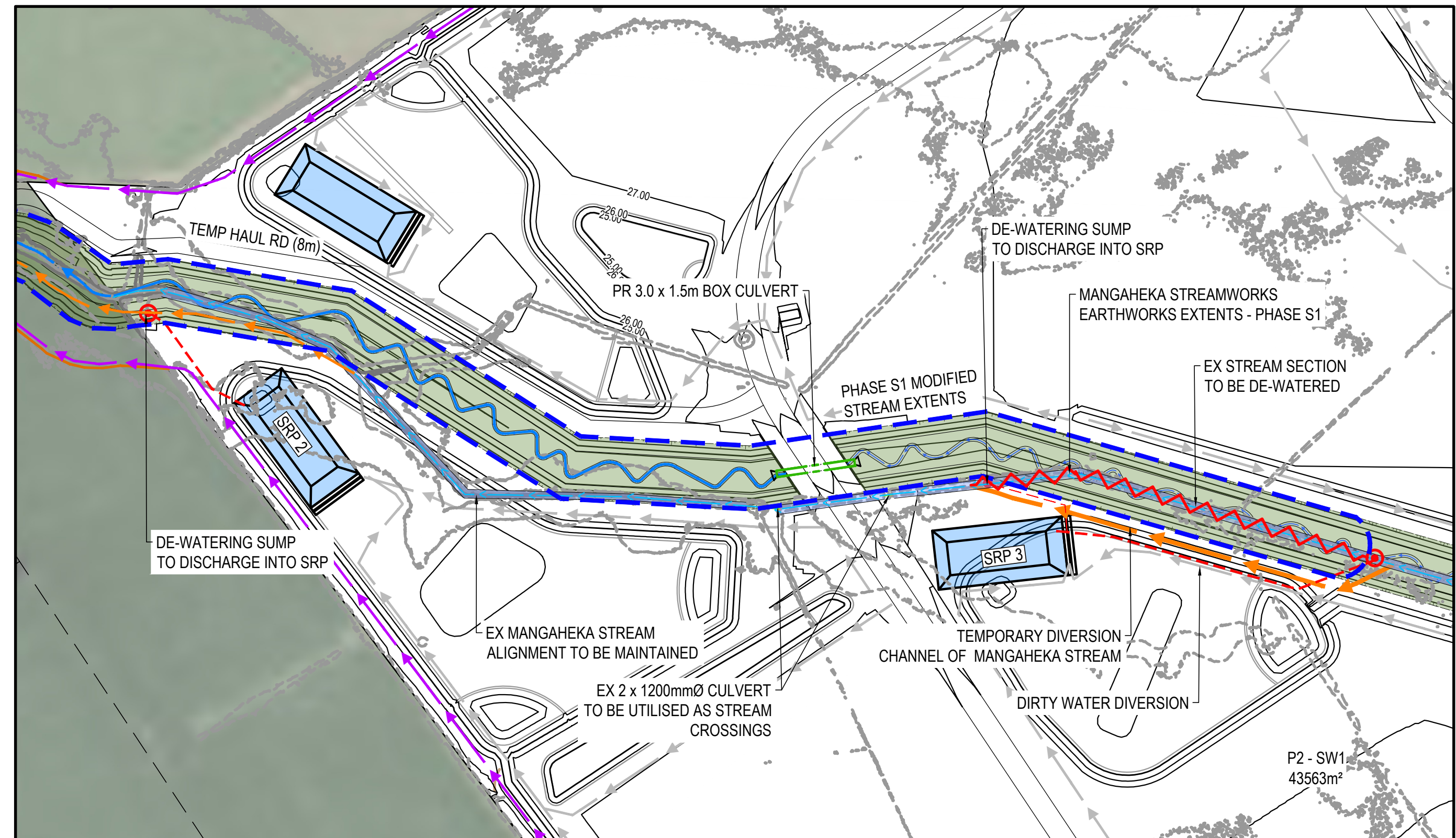
Cad file
180010-C230-ESCP.dwg

Drawing no
C230

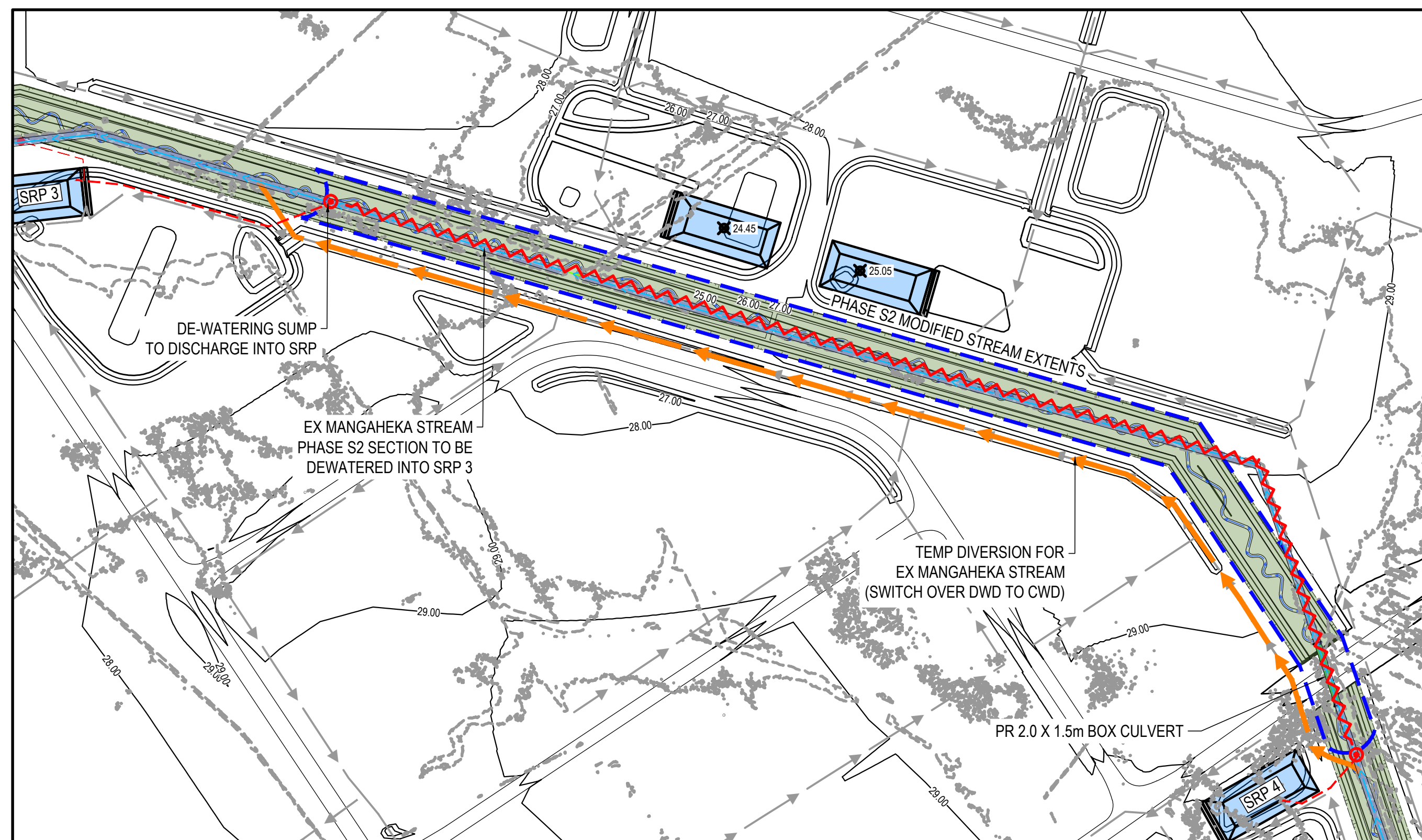
Rev
A



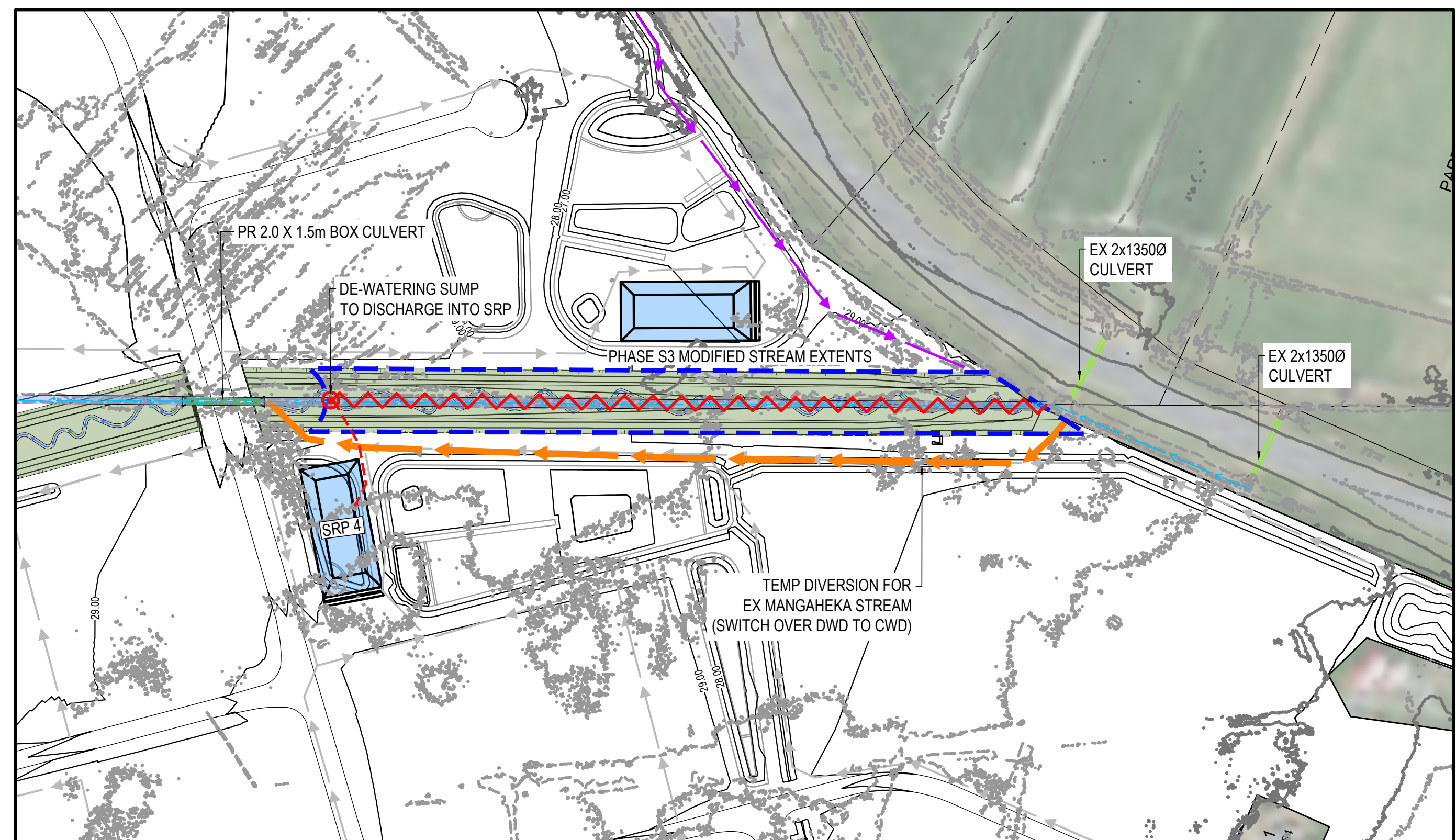
A PHASE S1 - STREAM WORKS LOWERING/WIDENING (EXTERNAL)
C230 SCALE 1:1250 @ A1



B PHASE S1 - STREAM WORKS LOWERING/WIDENING (INTERNAL)
C230 SCALE 1:2000 @ A1



C PHASE S2 - STREAM WORKS LOWERING/WIDENING (INTERNAL)
C230 SCALE 1:2500 @ A1



D PHASE S3 - STREAM WORKS LOWERING/WIDENING (INTERNAL)
C230 SCALE 1:2000 @ A1

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 - PR DECANT
 - PR DECANT BAR
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 - PR MODIFIED STREAM

Rev	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026



Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED STREAM DIVERSION EXTENTS PLAN

Project no. 180010
Scale AS SHOWN @ A1
Cad file 180010-C230-180010.DWG
Drawing no. C231 Rev. A

1.0- TEMPORARY DIVERSION CHANNEL

- UNDERTAKE ALL IN-STREAM WORKS, INCLUDING FLOW CUT-OVER, DURING LOW-FLOW PERIODS; MONITOR FORECASTS AND CEASE AND SECURE WORKS AHEAD OF SIGNIFICANT RAINFALL.
- EXCAVATE TEMPORARY DIVERSION CHANNEL WITHIN THE NEW MANGAHEKA STREAM EXTENTS, SIZED FOR THE 5-YEAR ARI EVENT (PRE-DEVELOPMENT).
- CUT SECTIONS OUTSIDE THE CHANNEL TO LEVEL AND PERMANENTLY STABILISE (RIPARIAN PLANTING AS REQUIRED).
- LINE TEMPORARY DIVERSION CHANNEL AS REQUIRED BY TR2009/02.
- CONFIRM ALL SEDIMENT RETENTION PONDS AND ESC DEVICES ARE CONSTRUCTED, OPERATIONAL AND AS-BUILT CERTIFIED, AND CLEAN WATER FROM THE UPSTREAM CATCHMENT IS DIVERTED AROUND THE WORKS, BEFORE DIVERTING STREAM FLOWS.
- DIVERT FLOWS FROM MANGAHEKA STREAM, STARTING FROM DOWNSTREAM TO UPSTREAM.

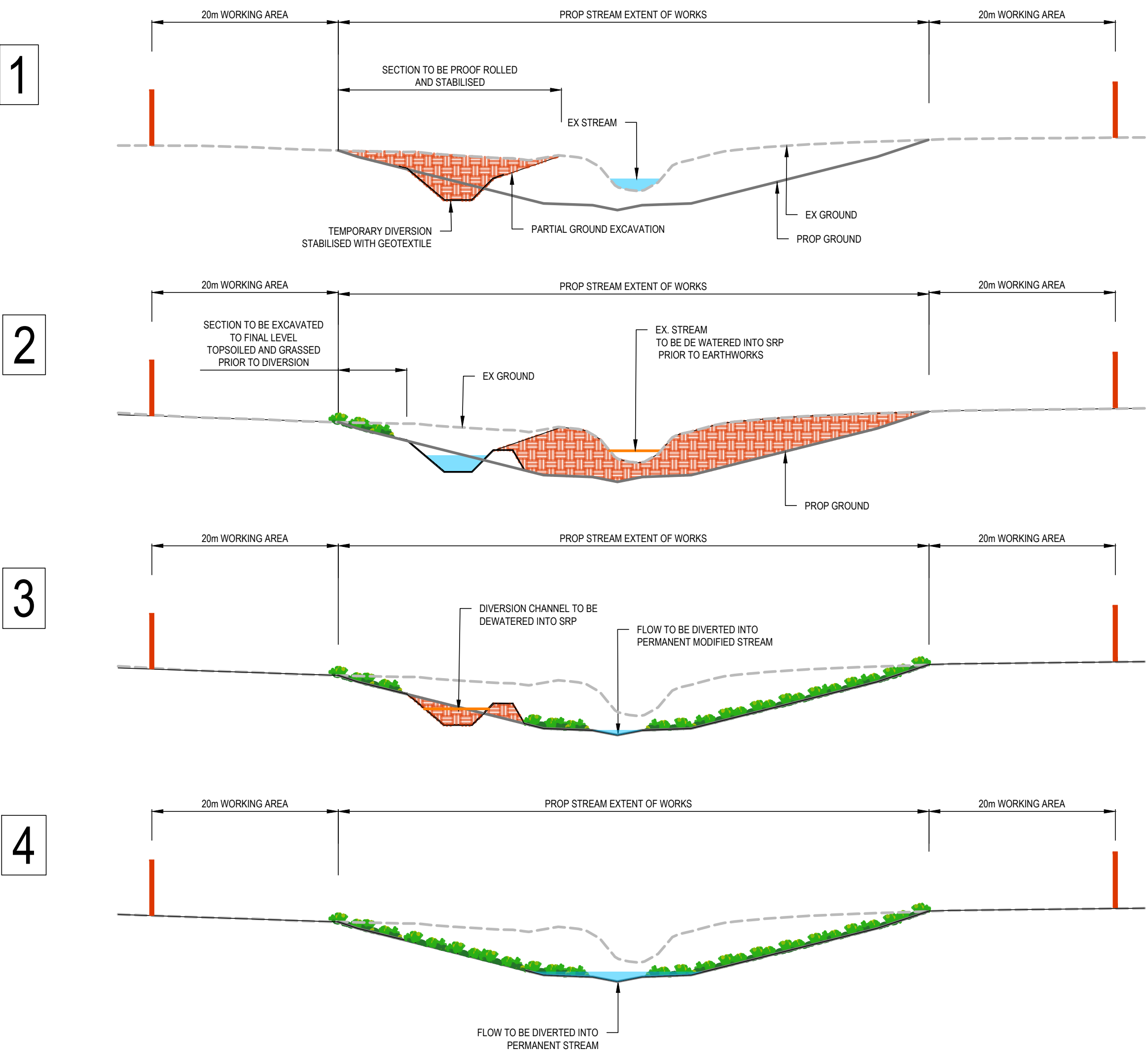
2.0- MANGAHEKA STREAM WORKS

- UNDERTAKE FISH AND NATIVE FAUNA SALVAGE FROM THE ISOLATED REACH BEFORE DEWATERING, IN ACCORDANCE WITH CONSENT CONDITIONS.
- DEWATER ISOLATED SECTION OF EXISTING MANGAHEKA STREAM TO NEAREST SEDIMENT RETENTION POND.
- PUMP DEWATERING TO THE SRP VIA A SCREENED INTAKE, TREAT WITH FLOCCULANT IF TURBID, AND DISCHARGE TO A STABILISED, NON-EROSIVE OUTLET.
- COMPLETE BULK EXCAVATION AND STABILISATION OF THE PROPOSED STREAM MODIFICATION; FORM TEMPORARY BUND ADJACENT TO DIVERSION CHANNEL.
- COMPLETE TOPSOILING AND LANDSCAPING
- PROGRESSIVELY STABILISE ALL EXPOSED AND DISTURBED AREAS AS SOON AS PRACTICABLE, IN ACCORDANCE WITH TR2009/02.

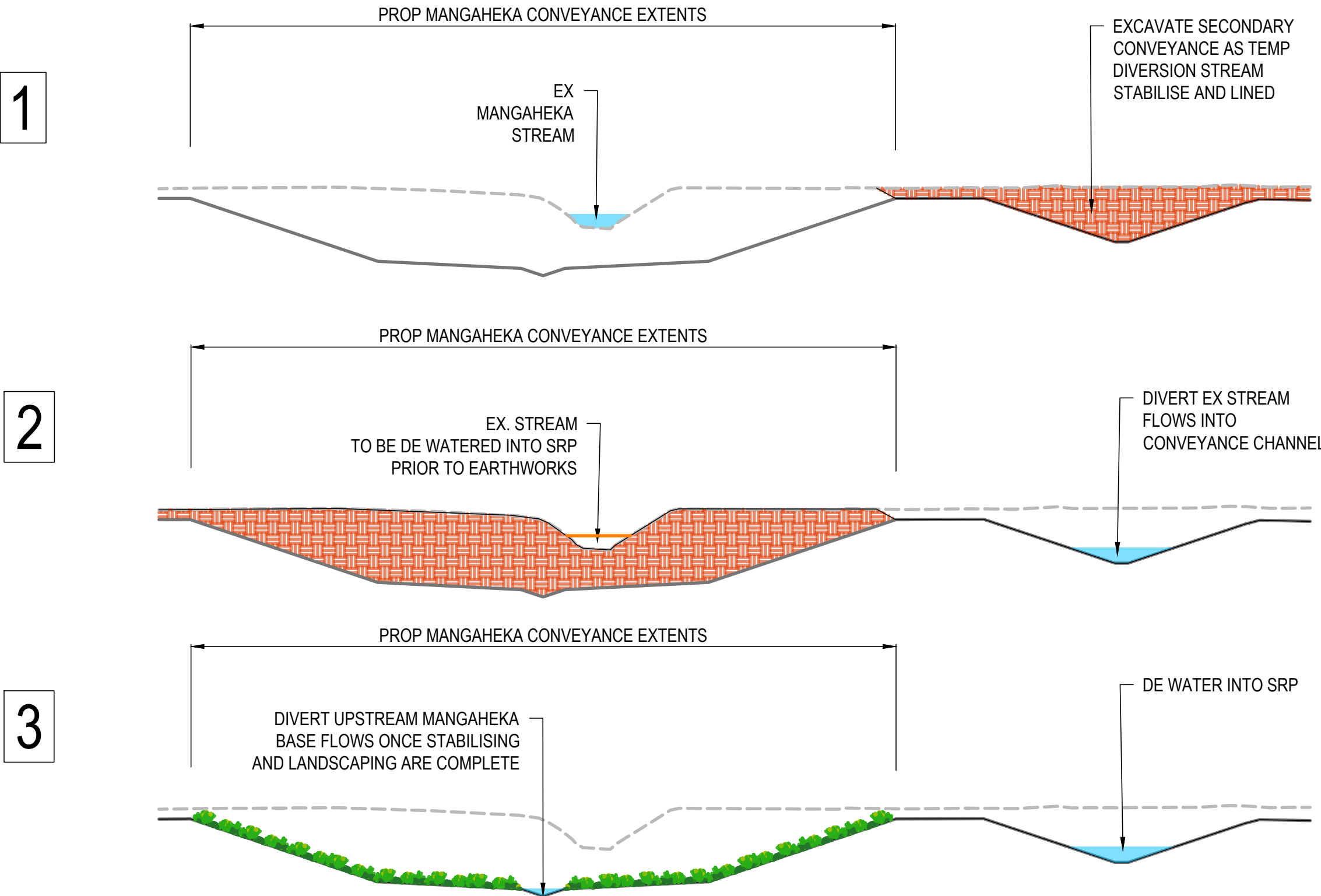
3.0- DIVERSION FLOW CUT OVER

- DEWATER DIVERSION FLOW INTO SEDIMENT RETENTION POND
- CHANGE OVER FLOWS INTO PERMANENT STREAM ALIGNMENT
- INSTALL ESC CONTROLS (SILT SOCKS) ALONG THE STABILISED SECTIONS.
- FILL DIVERSION CHANNEL WITH BUNDING MATERIAL
- STABILISE THE REINSTATED DIVERSION CHANNEL FOOTPRINT ON COMPLETION OF FILLING.
- COMPLETE FINAL TOPSOILING AND LANDSCAPING

PHASE S1 STREAM WORKS SEQUENCE (IN STREAM DIVERSION)
SCALE 1:150 @ A1



PHASE S2 - S3 STREAM WORKS SEQUENCE
SCALE 1:150 @ A1



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LEGEND

---	EX GROUND LEVEL
---	PR FINAL GROUND LEVEL
---	PARTIAL GROUND LEVEL
---	EXCAVATION AREA

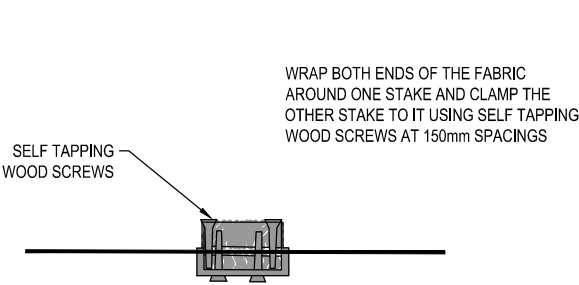
Rev	Revisions	By	Date
A	RESOURCE CONSENT	JD	08/2026



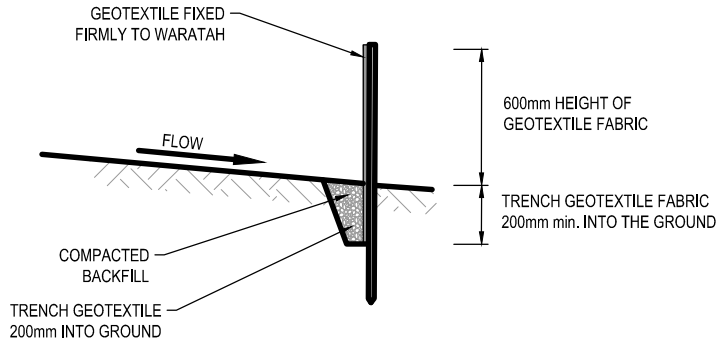
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED STREAM DIVERSION METHODOLOGY PLAN

Project no.	180010
Scale	AS SHOWN @ A1
Cad file	180010-C232-1100P.DWG
Drawing no.	C232
Rev	A

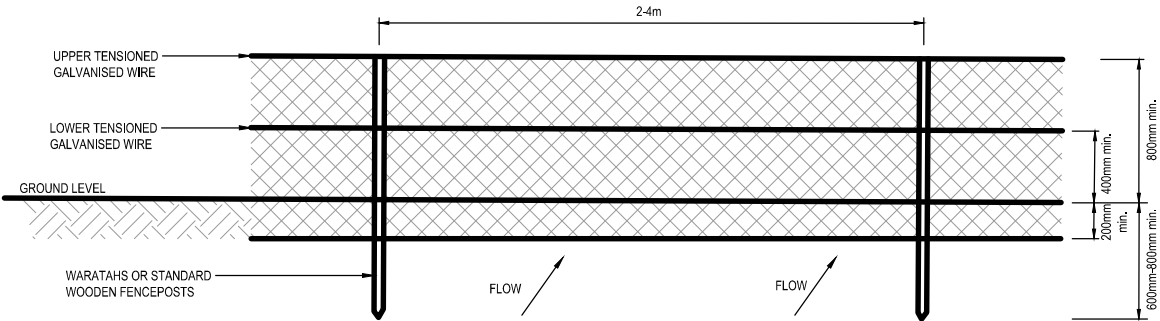


STANDARD DETAIL FOR FABRIC JOIN

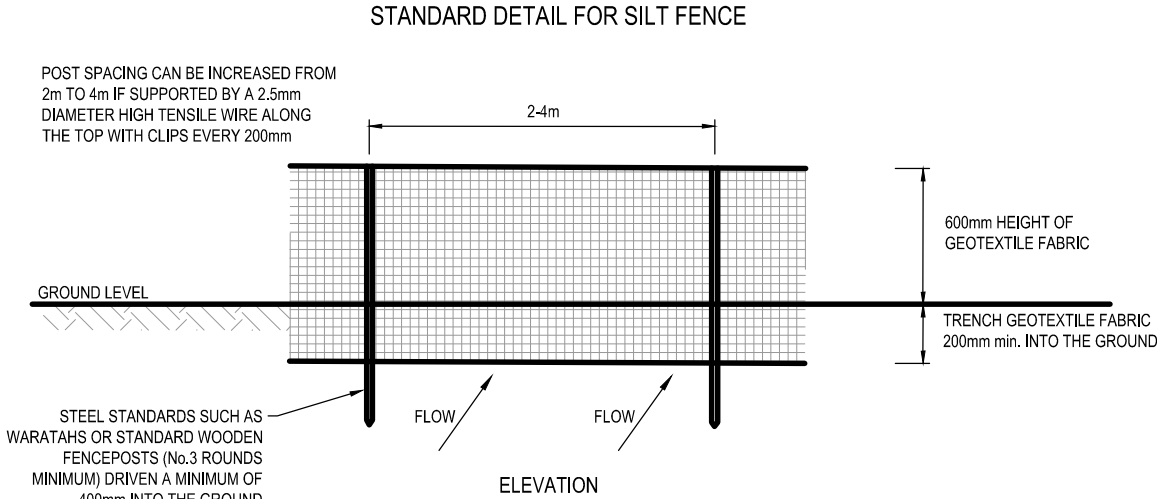


CROSS SECTION

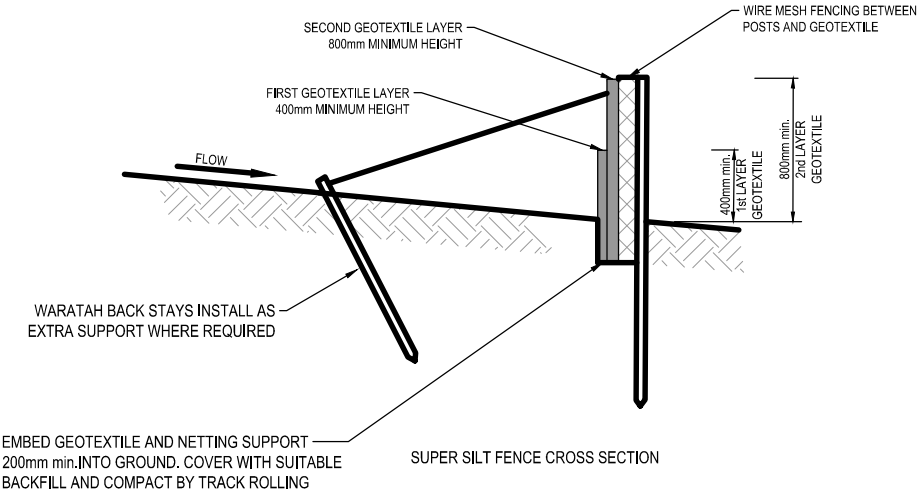
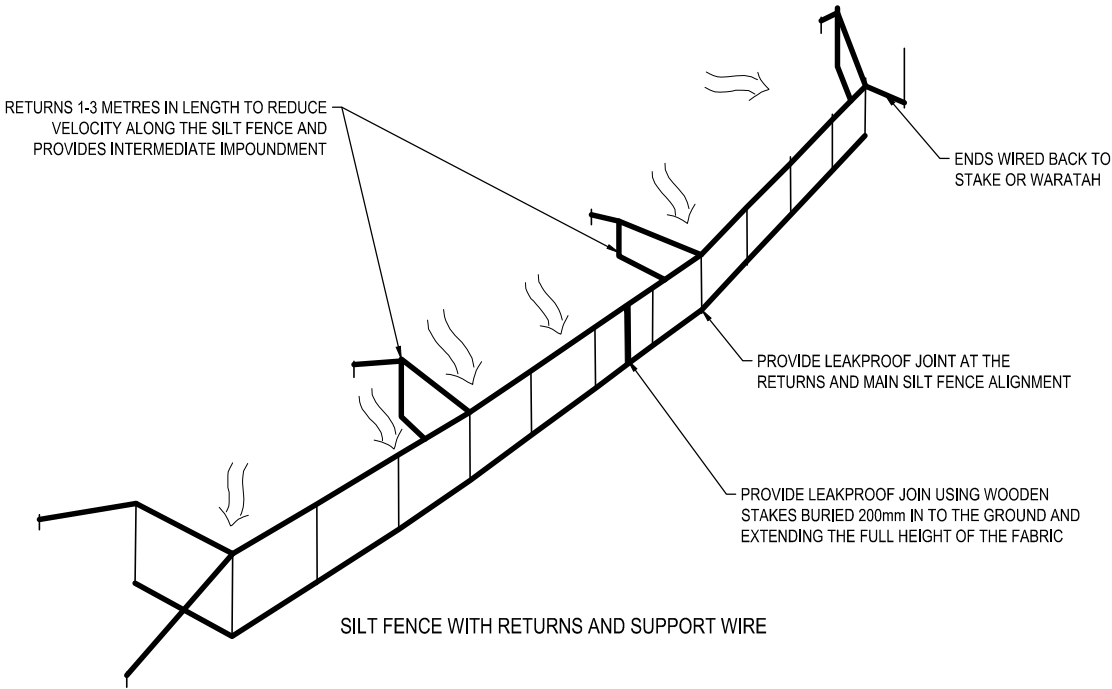
SUPER SILT FENCE DETAIL



ELEVATION



ELEVATION



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A	RESOURCE CONSENT	SP	08/2026
Rev	Description	By	Date
		By	Date
Survey	--	--	--
Design	GD05/TP90	--	--
Drawn	GD05/TP90	--	--
Checked	RW	08/2026	--

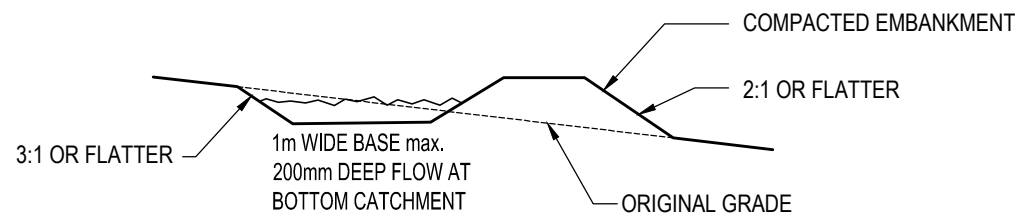
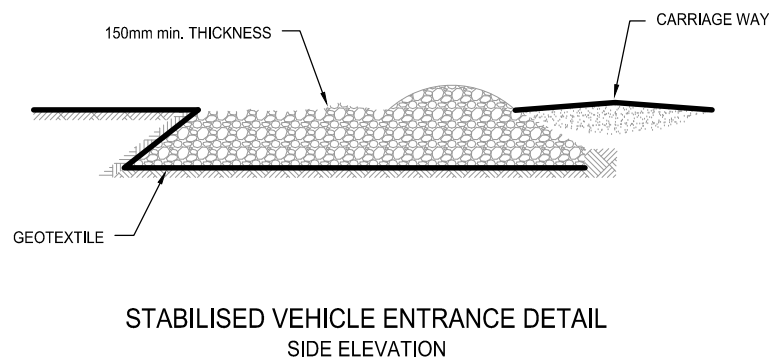
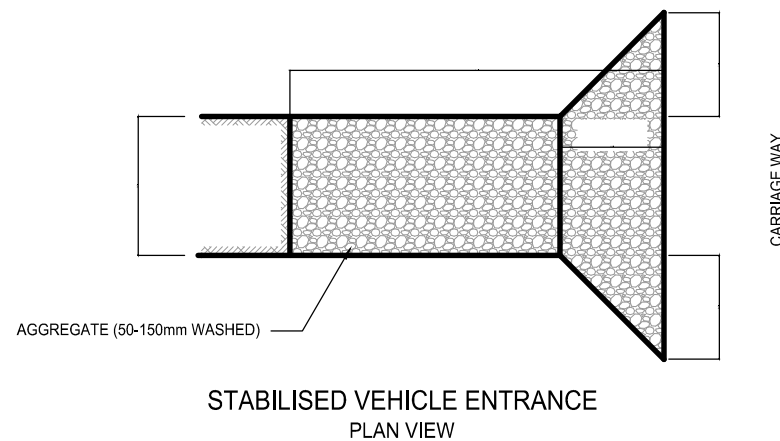
M **Maven Associates**
09 571 0050
info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

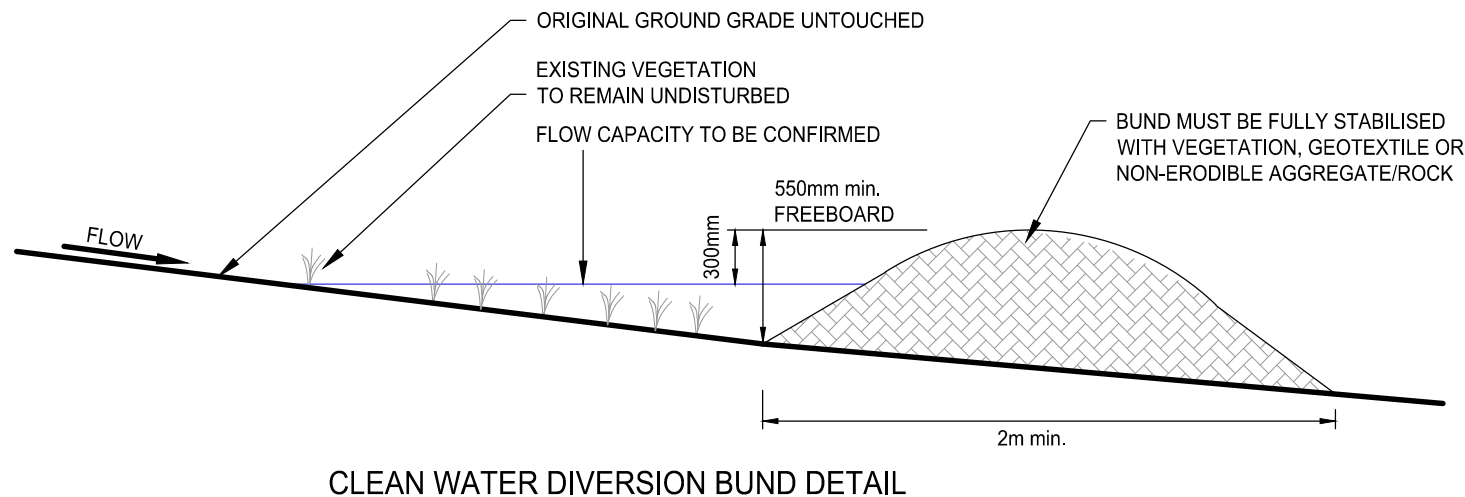
Title
PROPOSED SEDIMENT EROSION CONTROL DETAILS

Project no.	180010		
Scale	N.T.S @ A3		
Cad file	180010-C235.DWG		
Drawing no.	C235	Rev	A

RESOURCE CONSENT



TYPICAL CROSS SECTION OF A RUNOFF DIVERSION
TYPICAL DIMENSIONS UNLESS OTHERWISE NOTED



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Rev	Description	By	Date
		By	Date
Survey	--	--	--
Design	GD05/TP90	--	--
Drawn	GD05/TP90	--	--
Checked	RW	08/2026	--

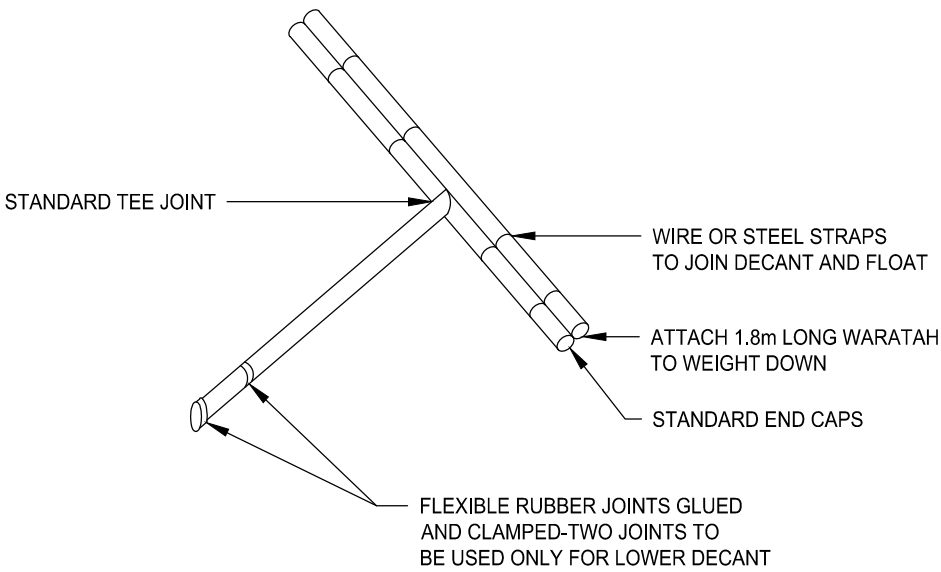
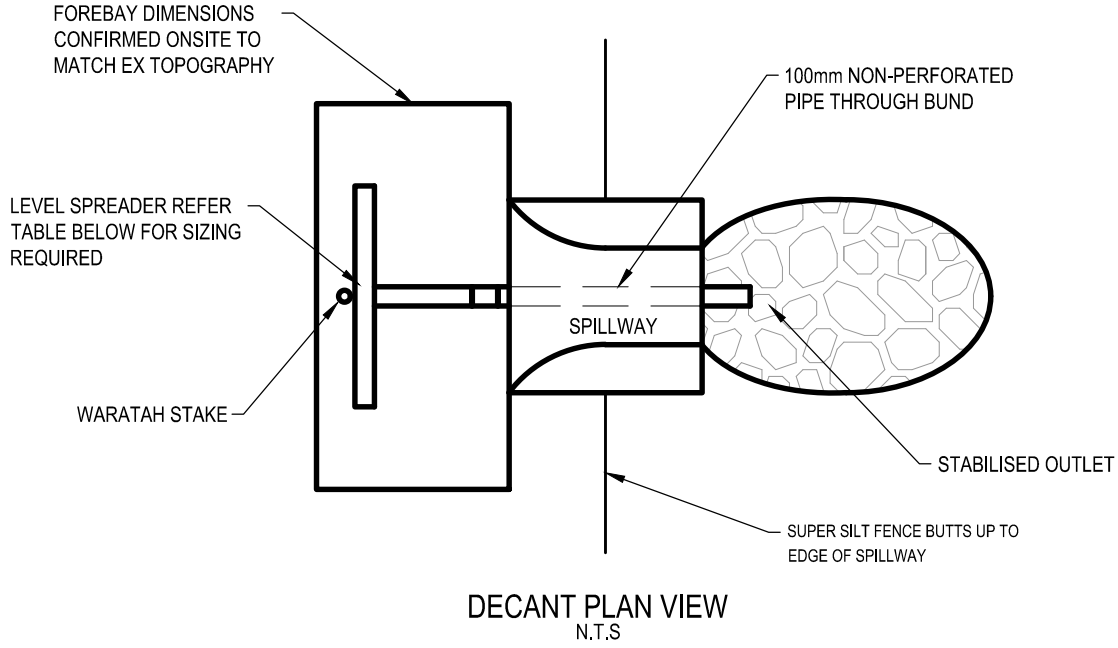
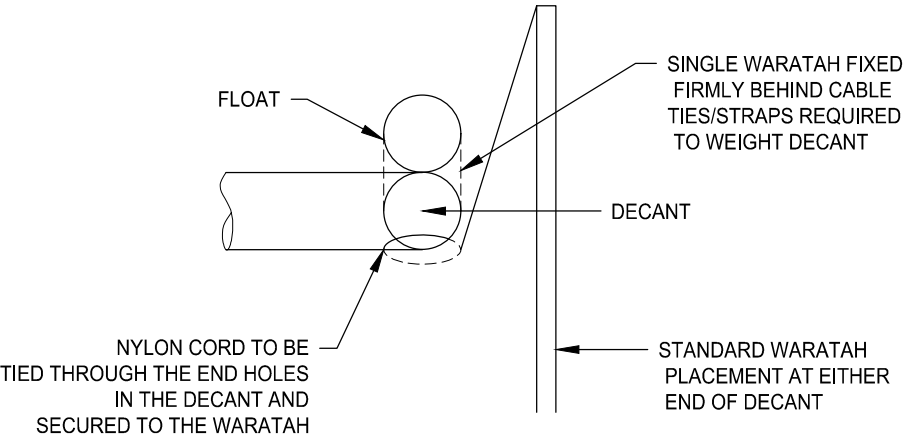
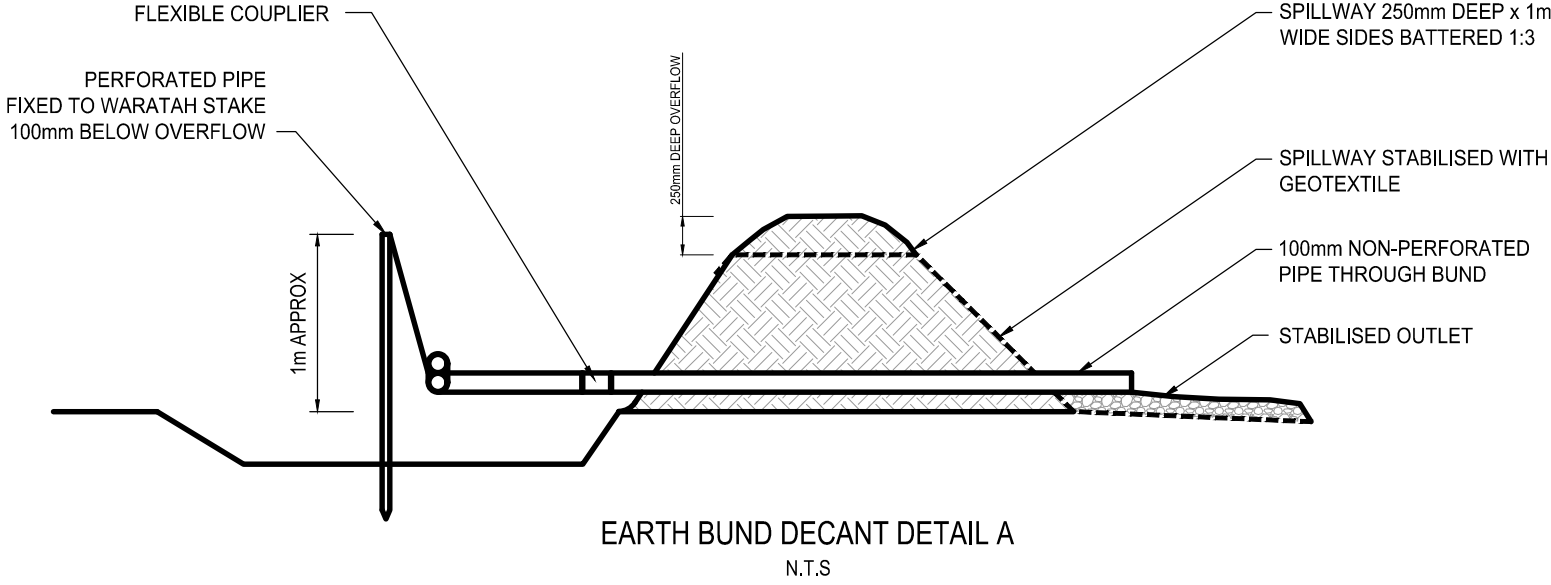
M **Maven Associates**
09 571 0050
info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
**PROPOSED INDUSTRIAL
DEVELOPMENT AT
TE KOWHAI EAST
FOR TE KOWHAI EAST
LIMITED PARTNERSHIP**

Title
**PROPOSED
SEDIMENT EROSION
CONTROL DETAILS**

Project no.	180010		
Scale	N.T.S @ A3		
Cad file	180010-C235.DWG		
Drawing no.	C235-1	Rev	A

RESOURCE CONSENT



LEVEL SPREADER DESIGN CRITERIA (20 YEAR STORM EVENT)				
DESIGN FLOW (m ³ /sec)	INLET WIDTH (m)	DEPTH (m)	END WIDTH (m)	LENGTH (mm)
0-0.3	3	150	1	3
0.3-0.6	5	180	1	7
0.6-0.9	7	220	1	10

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A	RESOURCE CONSENT	SP	08/2026
Rev	Description	By	Date
Survey	--	--	--
Design	GD05/TP90	--	--
Drawn	GD05/TP90	--	--
Checked	RW		08/2026



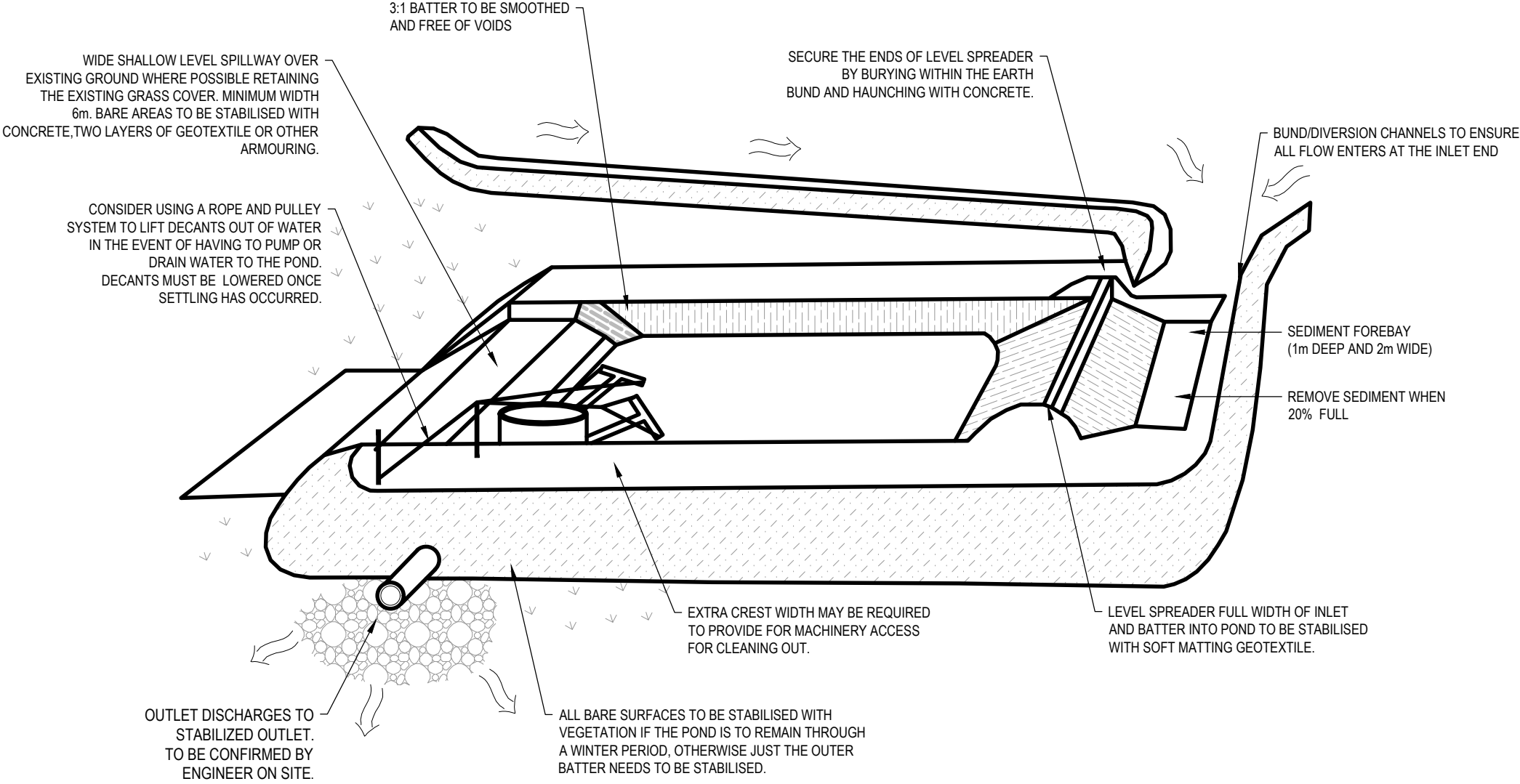
Maven Associates
09 571 0050
info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED SEDIMENT EROSION CONTROL DETAILS

Project no.	180010		
Scale	CUSTOM @ A3		
Cad file	180010-C235.DWG		
Drawing no.	C235-2	Rev	A

RESOURCE CONSENT



SEDIMENT POND DETAILS
(NTS)

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Rev	Description	By	Date
		By	Date
Survey	--	--	--
Design	GD05/TP90	--	--
Drawn	GD05/TP90	--	--
Checked	RW		08/2026

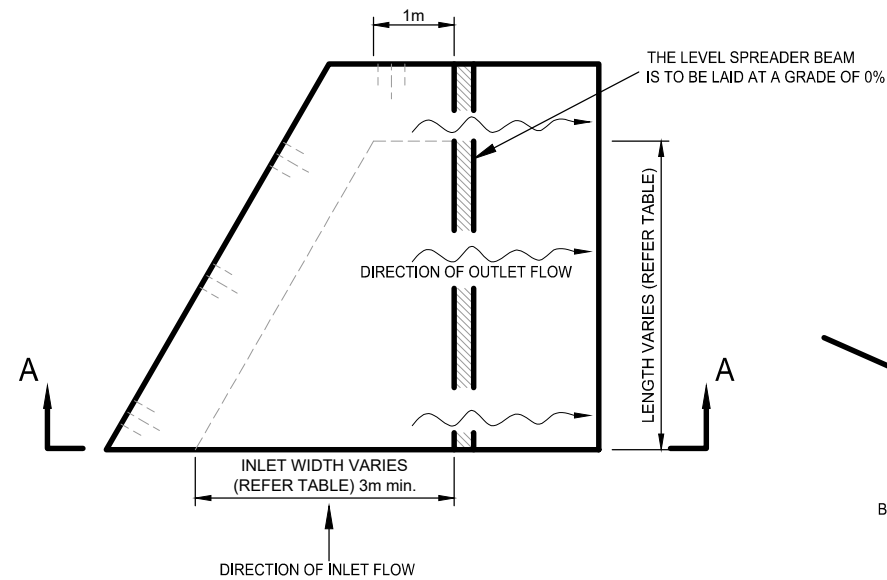


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09 571 0050
info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

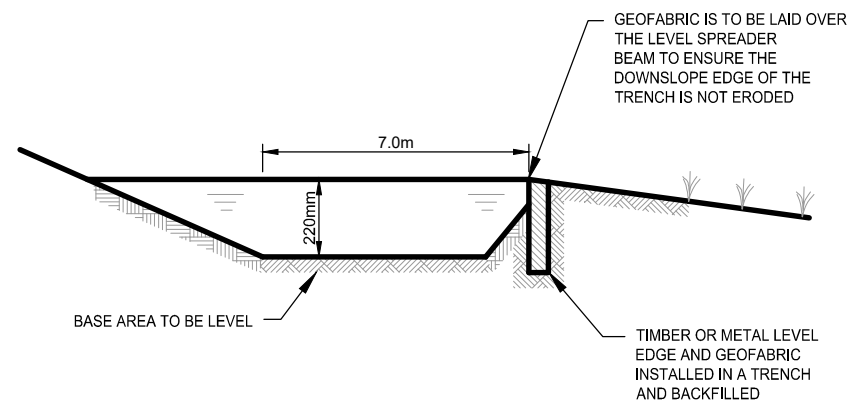
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED SEDIMENT EROSION CONTROL DETAILS

Project no.	180010		
Scale	CUSTOM @ A3		
Cad file	180010-C235.DWG		
Drawing no.	C235-3	Rev	A

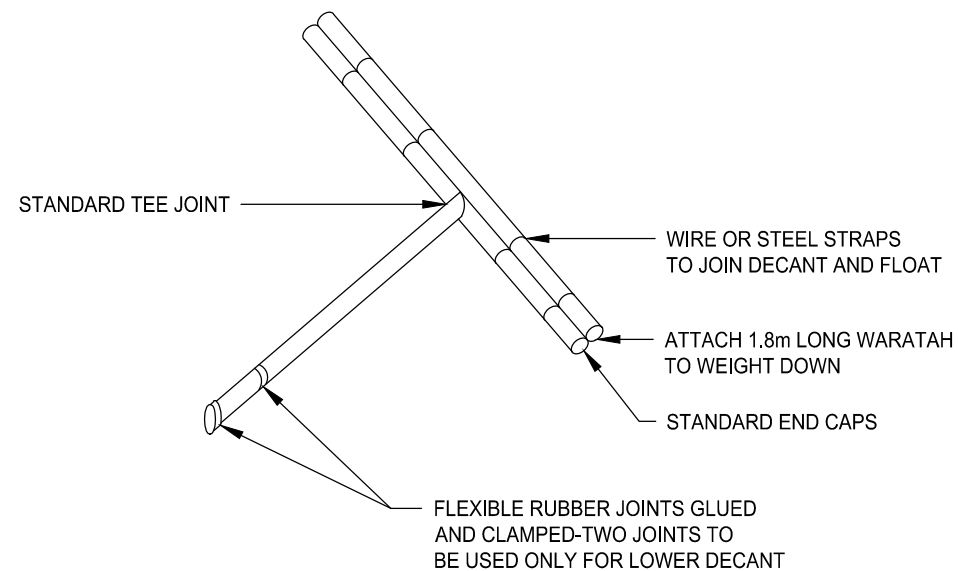
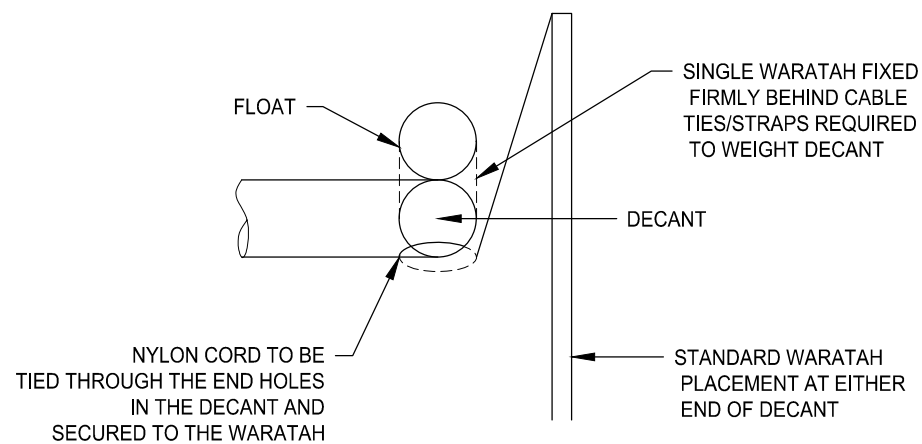


PLAN VIEW



SECTION A-A

LEVEL SPREADER DESIGN CRITERIA (20 YEAR STORM EVENT)				
DESIGN FLOW (m ³ /sec)	INLET WIDTH (m)	DEPTH (m)	END WIDTH (m)	LENGTH (mm)
0-0.3	3	150	1	3
0.3-0.6	5	180	1	7
0.6-0.9	7	220	1	10



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO DISTRICT COUNCIL/IAWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000
 3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 4. ORIGIN OF LEVELS = BP 3 SO 468570 (EMDK)
 5. PUBLISHED RL=38.59, SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
 6. BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 8. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
 9. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
 10. SEDIMENT CONTROL SHALL BE INSTALLED AND OPERATIONAL BEFORE EARTHWORKS START ON-SITE IN ACCORDANCE WITH COUNCIL STANDARDS.
 11. CONTRACTOR SHALL PROVIDE AS-BUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECANT VOLUMES TO ENGINEER.
 12. SEDIMENT CONTROL TO COMPLY WITH TR2009/02 STANDARDS.

A	RESOURCE CONSENT	SP	08/2026
Rev	Description	By	Date
		By	Date
Survey	--	--	--
Design	GD05/TP90	--	--
Drawn	GD05/TP90	--	--
Checked	RW	08/2026	

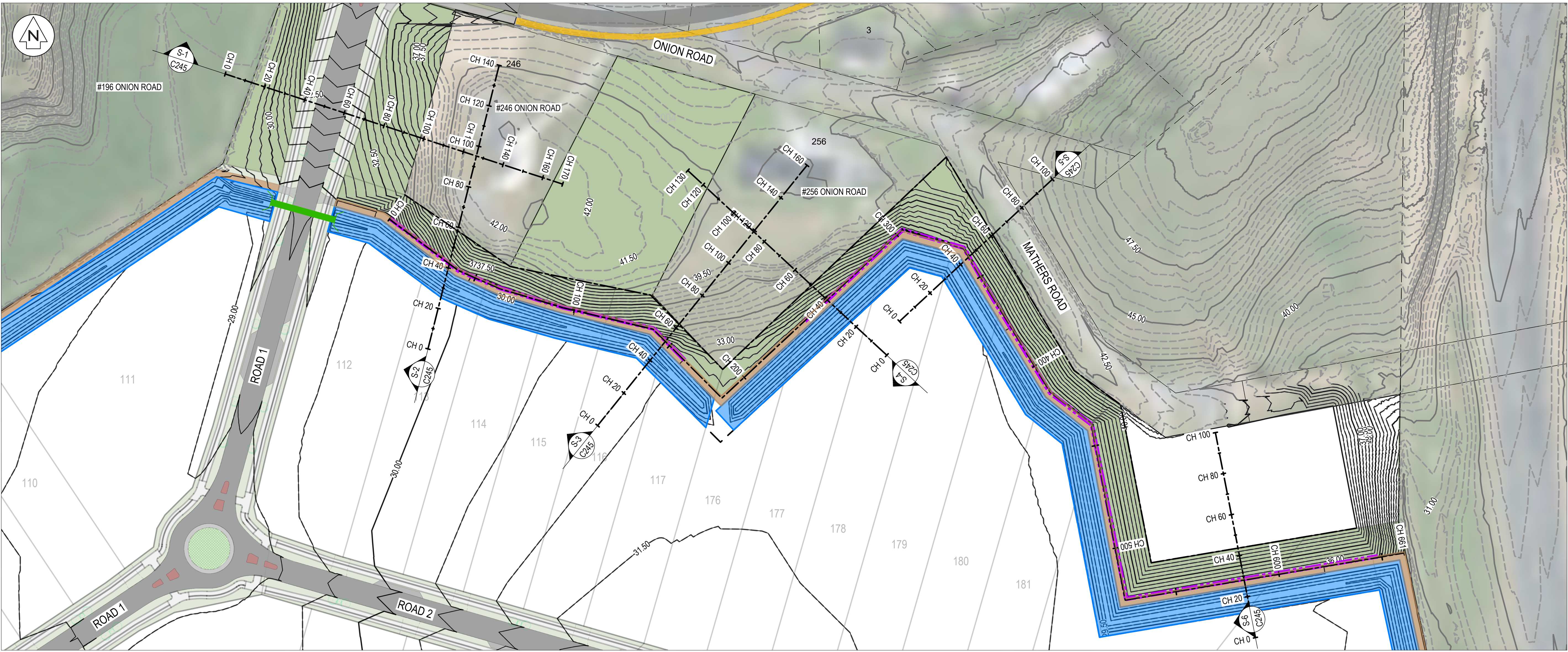
M **Maven Associates**
09 571 0050
info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED SEDIMENT EROSION CONTROL DETAILS

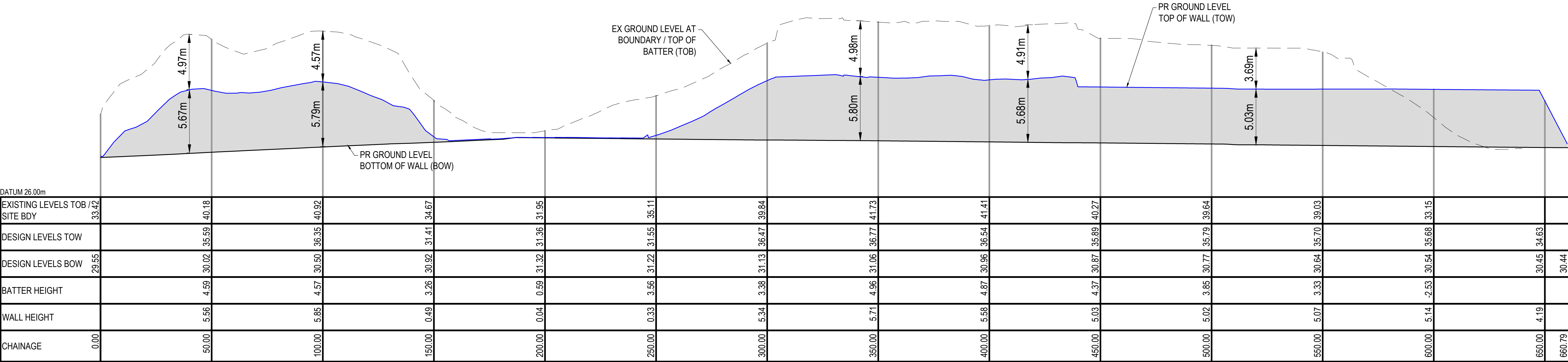
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Scale	CUSTOM @ A3		
Cad file	180010-C235.DWG		
Drawing no.	C235-4	Rev	A

RESOURCE CONSENT



RETAINING WALL PLAN VIEW
SCALE 1:1000 @ A1

- LEGEND
- EX GROUND LEVEL AT BOUNDARY / TOP OF BATTER (TOB)
 - PR GROUND LEVEL TOP OF WALL (TOW)
 - PR GROUND LEVEL BOTTOM OF WALL (BOW)
 - PR RETAINING WALL
 - PR CULVERT
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR 3.5m MAINTENANCE TRACK

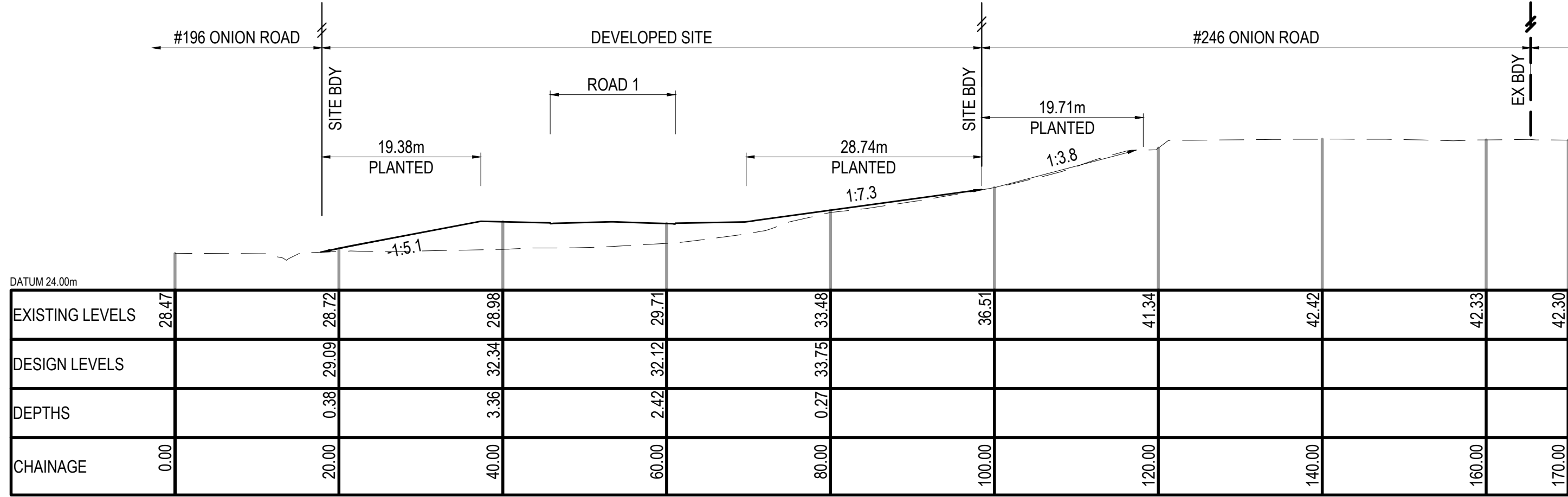


RETAINING WALL LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

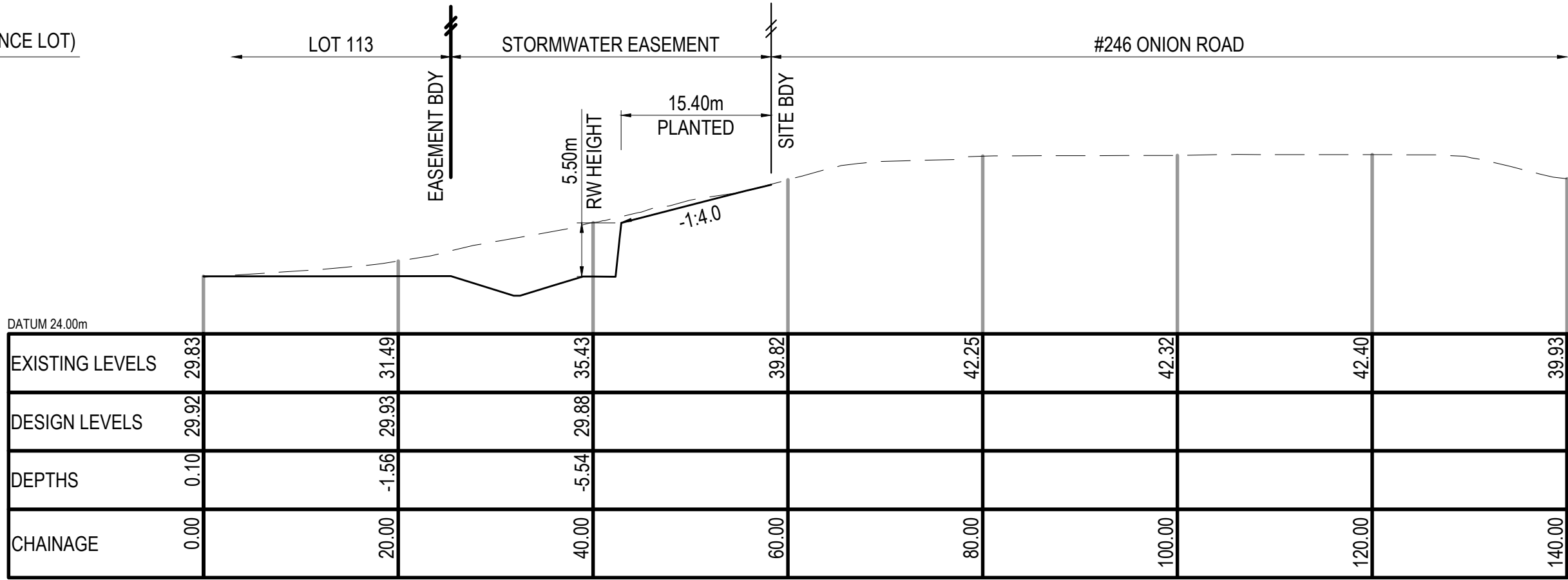
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Maven Associates
03 571 0502
info@maven.co.nz
www.maven.co.nz
5 Chalmers Road, Epsom
Auckland 1051

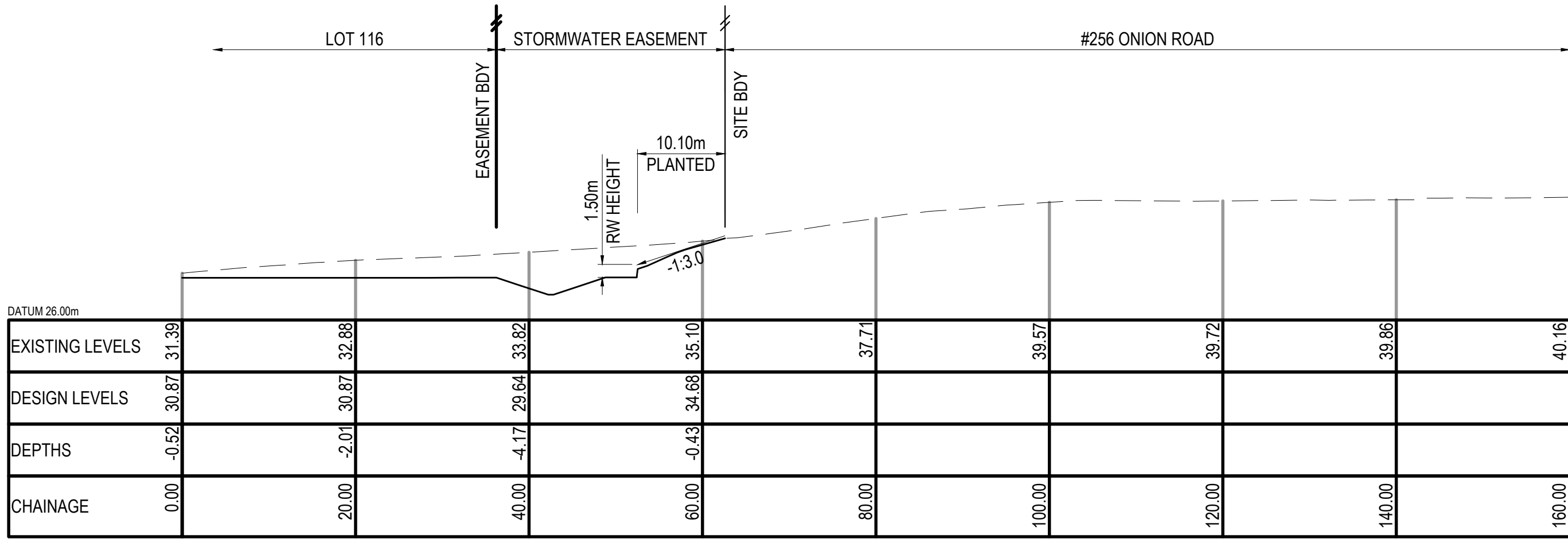
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Title		PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP	
Scale		AS SHOWN @ A1	
Drawing no		C240	Rev A



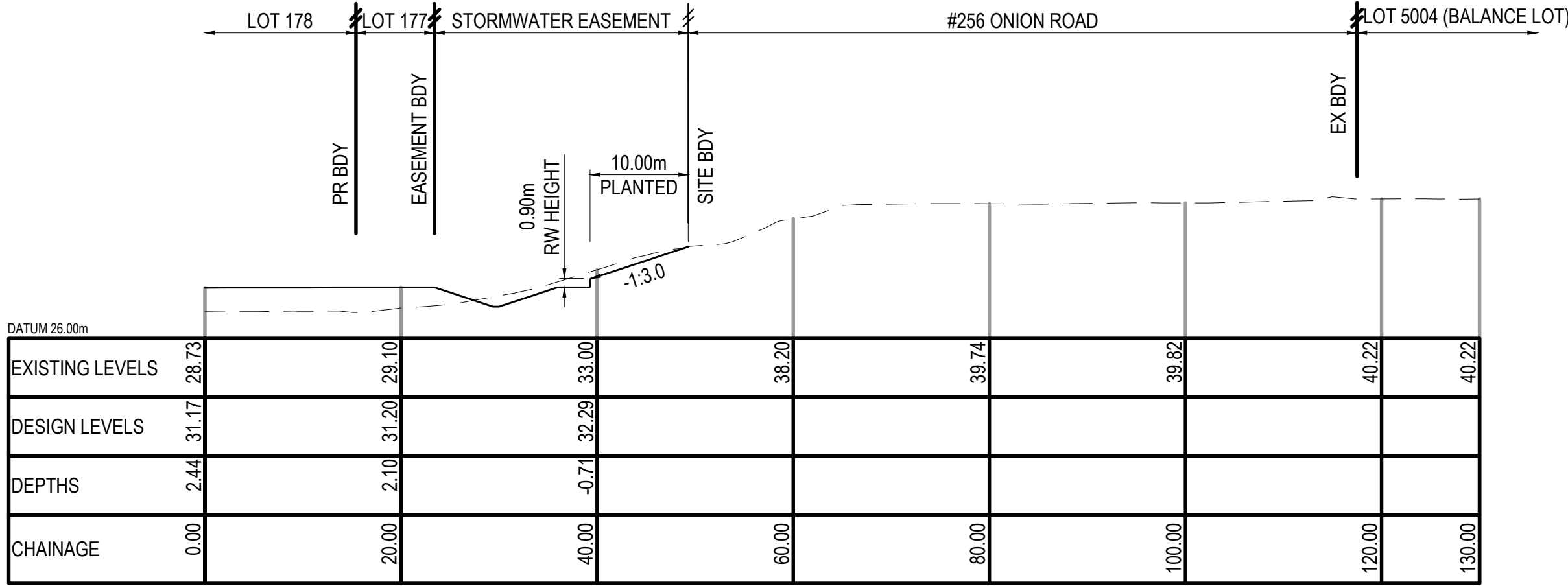
SECTION 1
SCALE: 1000 / 1000



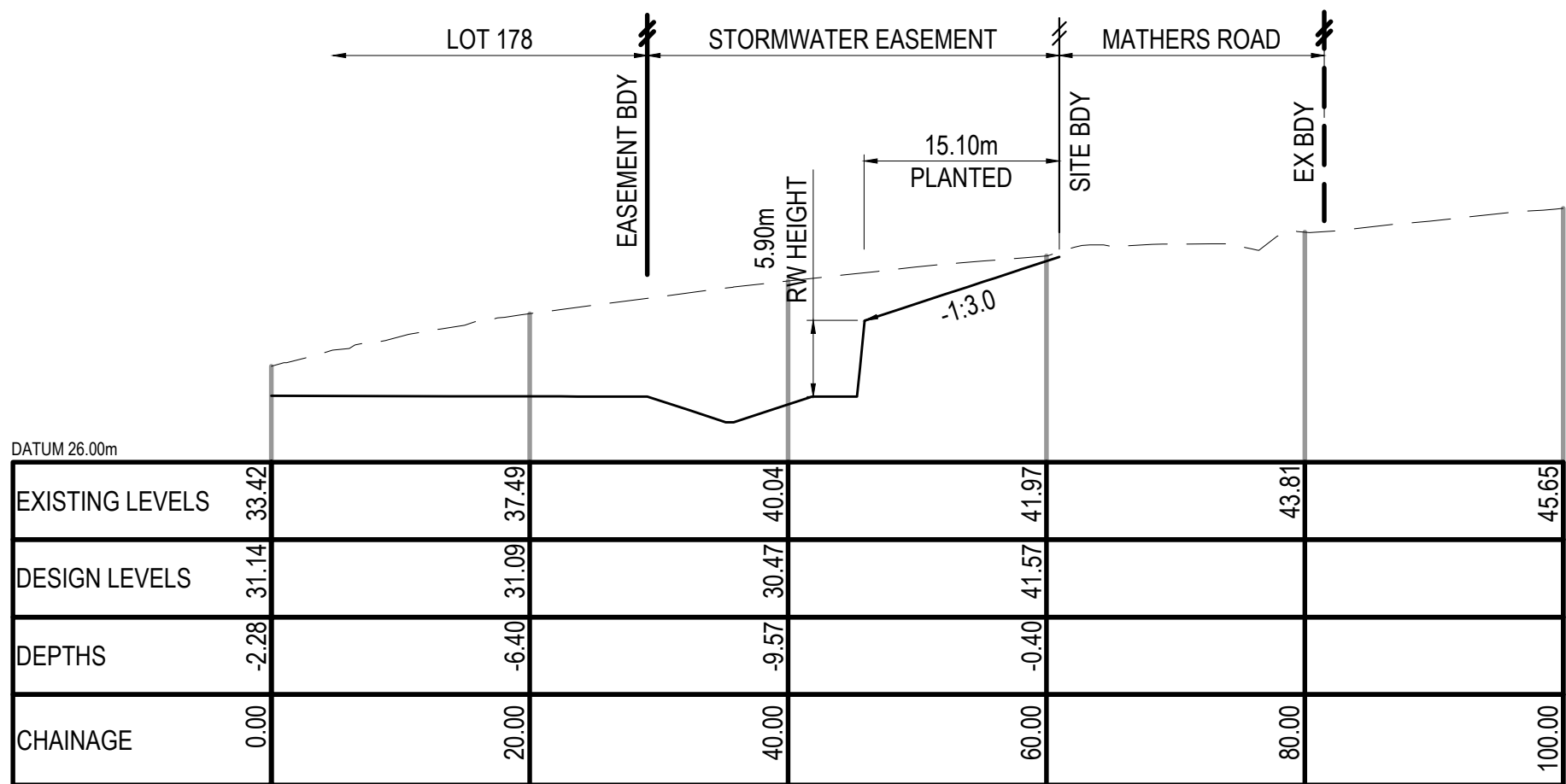
SECTION 2
SCALE: 1000 / 1000



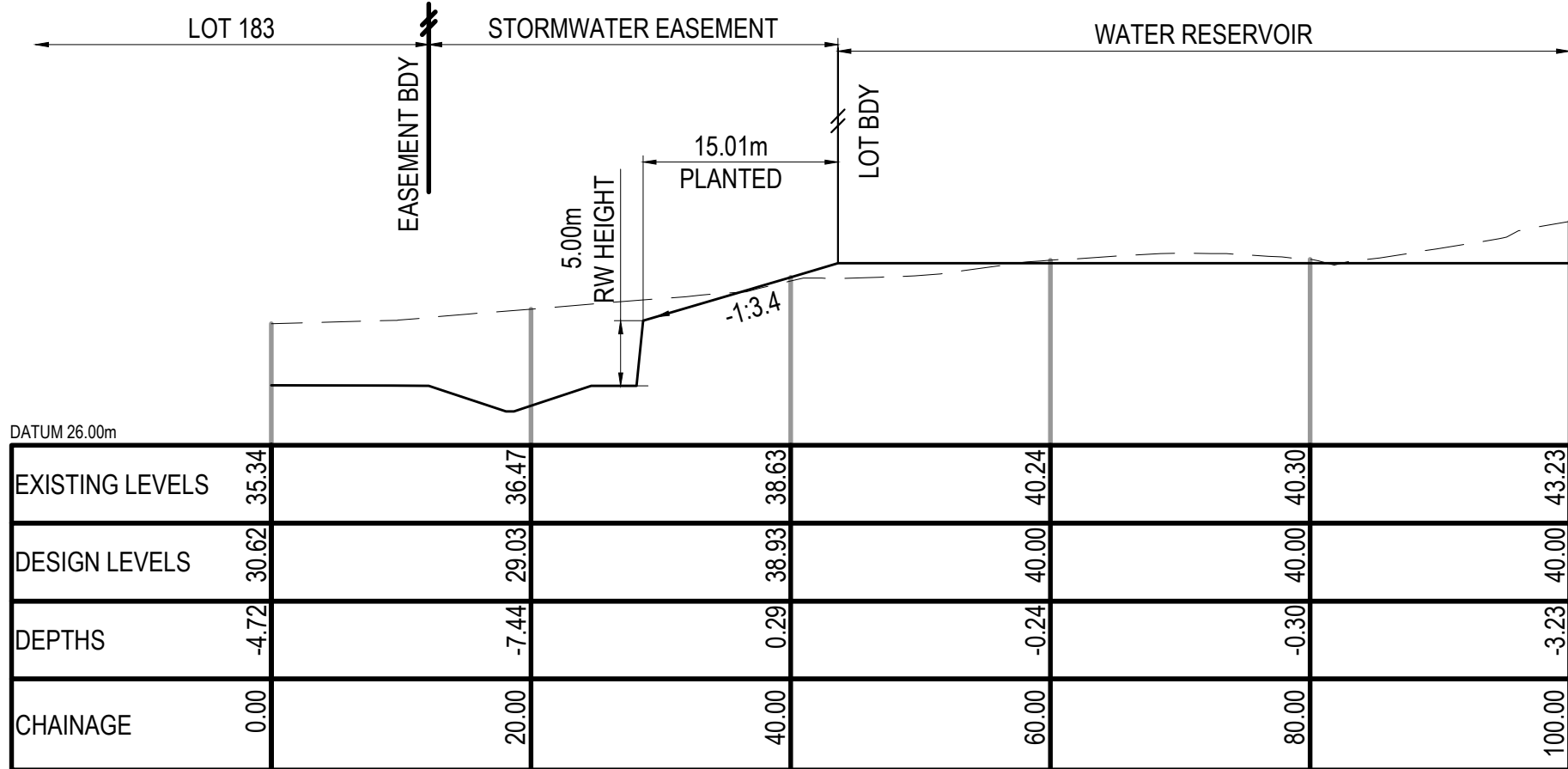
SECTION 3
SCALE: 1000 / 1000



SECTION 4
SCALE: 1000 / 1000



SECTION 5
SCALE: 1000 / 1000



SECTION 6
SCALE: 1000 / 1000

LEGEND
--- EX GROUND LEVEL
--- PR GROUND LEVEL