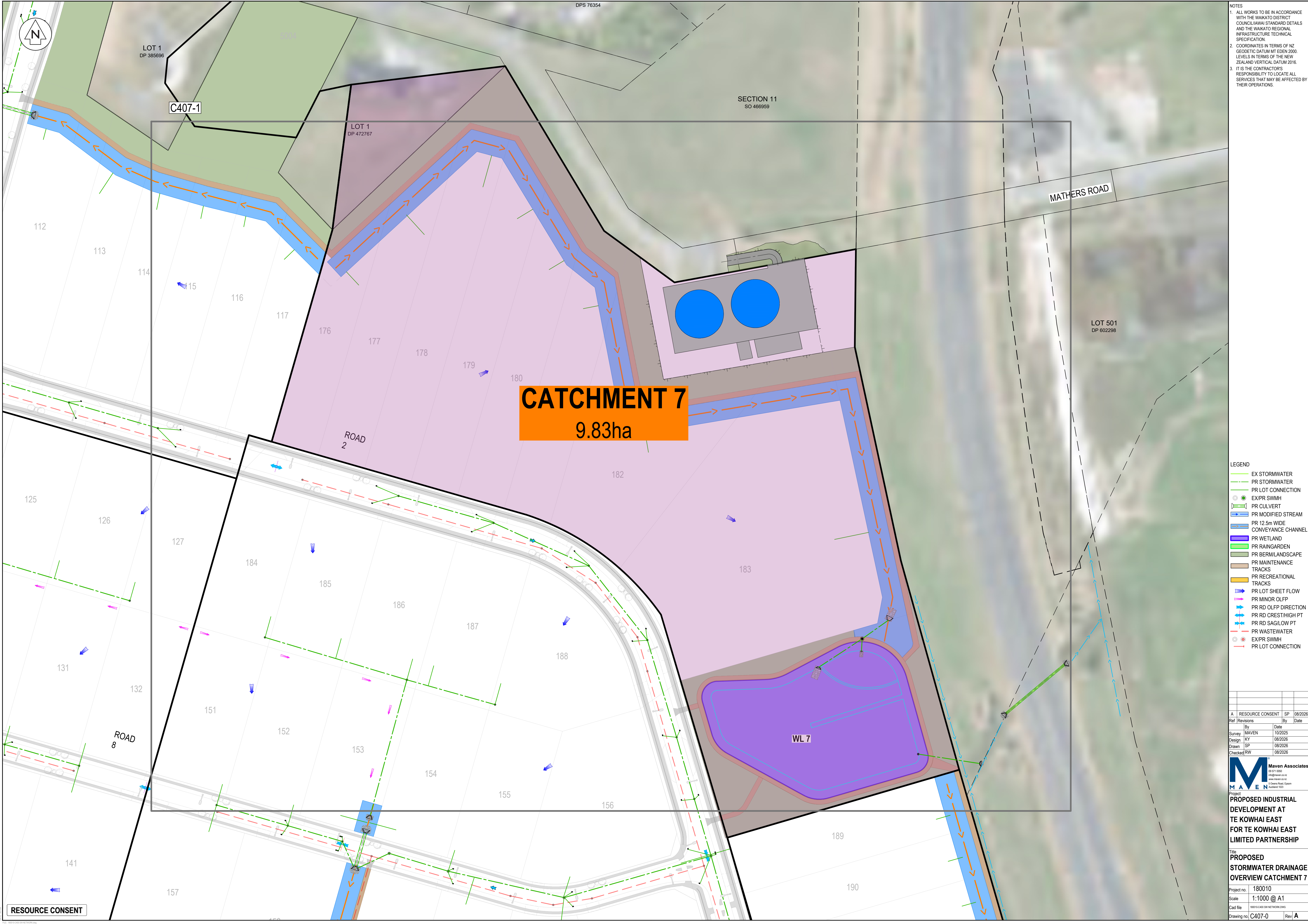






- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/JAWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.

- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
 - PR RAINGARDEN
 - PR BERM/LANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATIONAL TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OLPF
 - PR RD OLPF DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026

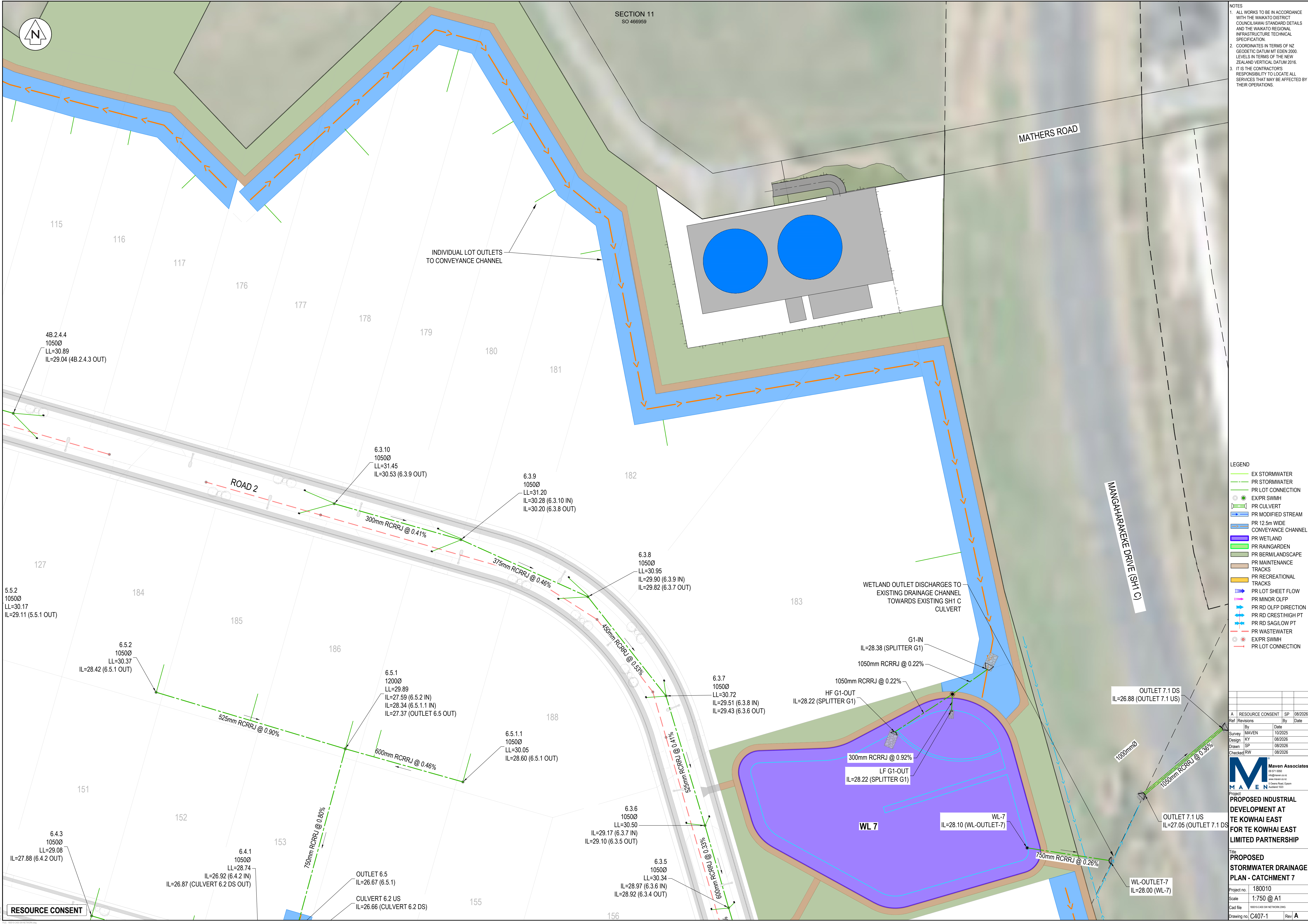
Maven Associates
03 571 0505
maven@mvn.co.nz
www.mvncorp.co.nz
5 Omana Road, Epsom
Auckland 1020

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

Title
PROPOSED STORMWATER DRAINAGE OVERVIEW CATCHMENT 7

Project no. 180010
Scale 1:1000 @ A1
Cad file 180010-CAD SW NETWORK.DWG
Drawing no. C407-0 Rev A

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/IAWAH STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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- LEGEND
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 - PR STORMWATER
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 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
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 - PR WETLAND
 - PR RAINGARDEN
 - PR BERM/LANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATIONAL TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OULP
 - PR RD OULP DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026
Survey	MAVEN	10/2025	
Design	KY	08/2026	
Drawn	SP	08/2026	
Checked	RW	08/2026	

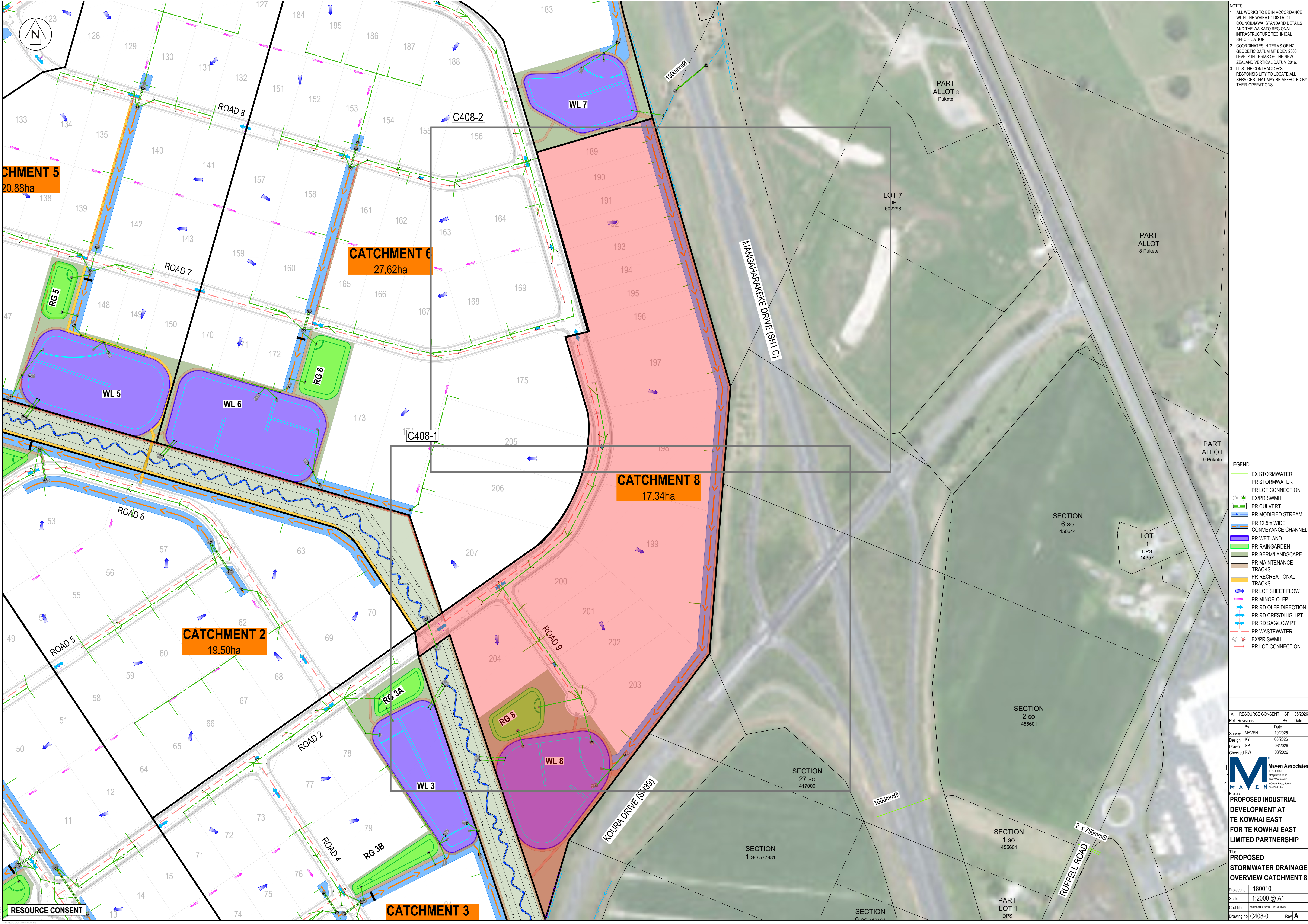
Maven Associates
03 571 0500
info@maven.co.nz
www.maven.co.nz
5 Chelms Road, Epsom
Auckland 1050

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

Title
PROPOSED STORMWATER DRAINAGE PLAN - CATCHMENT 7

Project no.	180010
Scale	1:750 @ A1
Cad file	180010-CATCH 004 NETWORK.DWG
Drawing no.	C407-1
Rev	A

RESOURCE CONSENT



- NOTES
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- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
 - PR RAINGARDEN
 - PR BERM/LANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATIONAL TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OULFP
 - PR RD OULFP DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

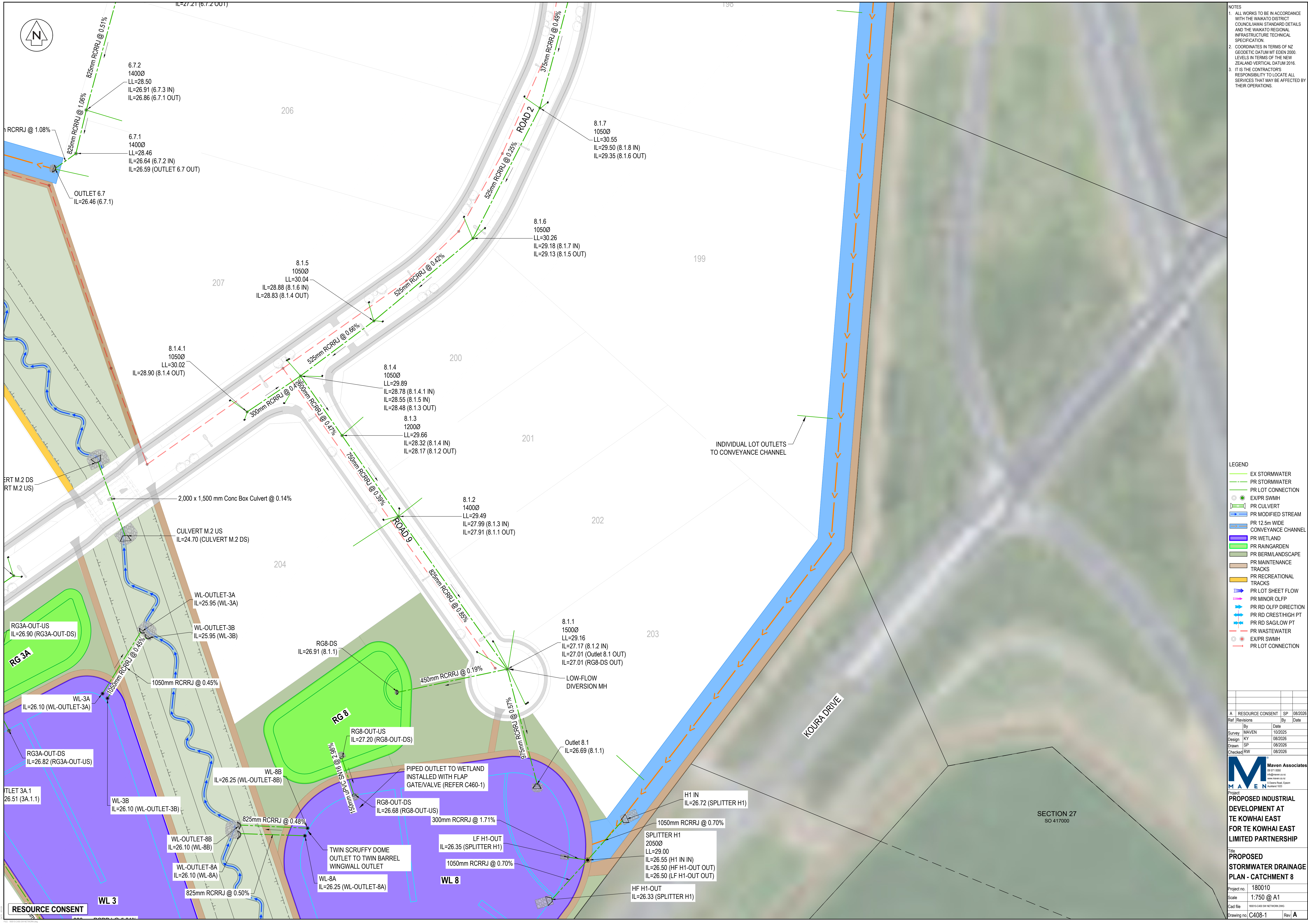
Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026

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

Title
PROPOSED STORMWATER DRAINAGE OVERVIEW CATCHMENT 8

Project no. 180010
Scale 1:2000 @ A1
Cad file 180010-C408-0-01-NETWORK.DWG
Drawing no. C408-0 Rev A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/IAWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
 - PR RAINGARDEN
 - PR BERM/LANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATIONAL TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OLPF
 - PR RD OLPF DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

Ref	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 STORMWATER DRAINAGE PLAN - CATCHMENT 8

Project no. 180010
Scale 1:750 @ A1
Cad file 180010-CATCH 8A NETWORK.DWG
Drawing no. C408-1 Rev A



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/IAWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
 - PR RAINGARDEN
 - PR BERM/LANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATIONAL TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OLPF
 - PR RD OLPF DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

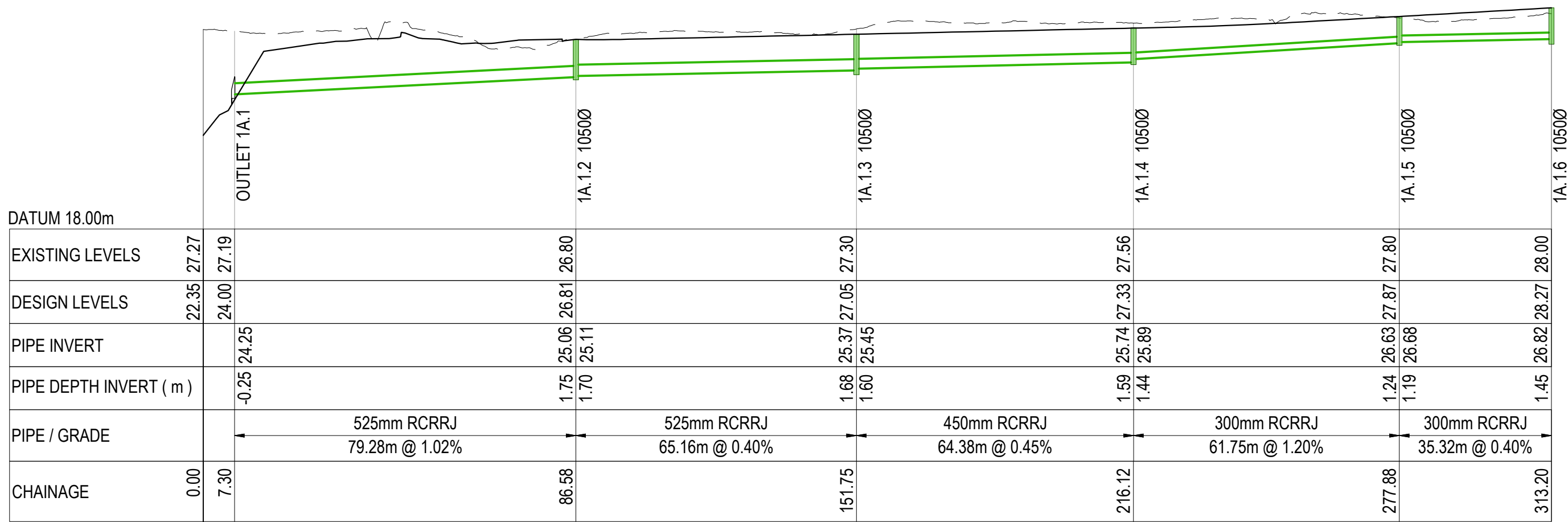
Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026

Maven Associates
03 571 0502
maven@mvn.co.nz
www.mvncorp.co.nz
5 Queens Road, Epsom
Auckland 1020

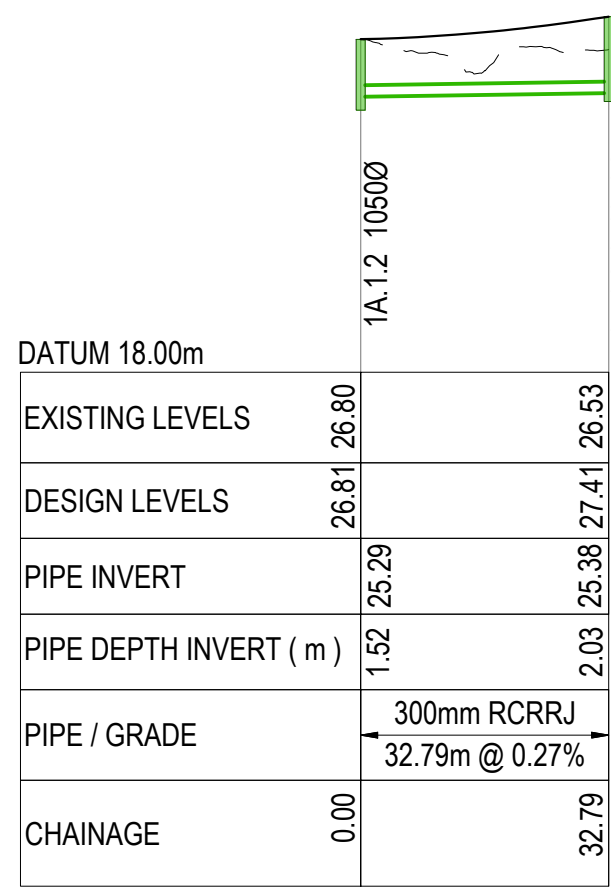
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED STORMWATER DRAINAGE PLAN - CATCHMENT 8

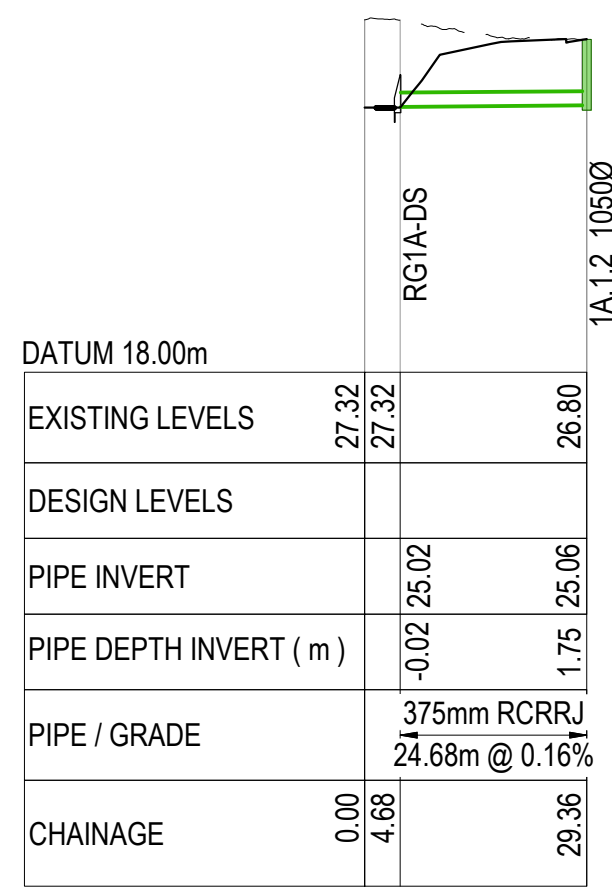
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Cad file	180010-CATCH 8A NETWORK.DWG
Drawing no.	C408-2
Rev	A



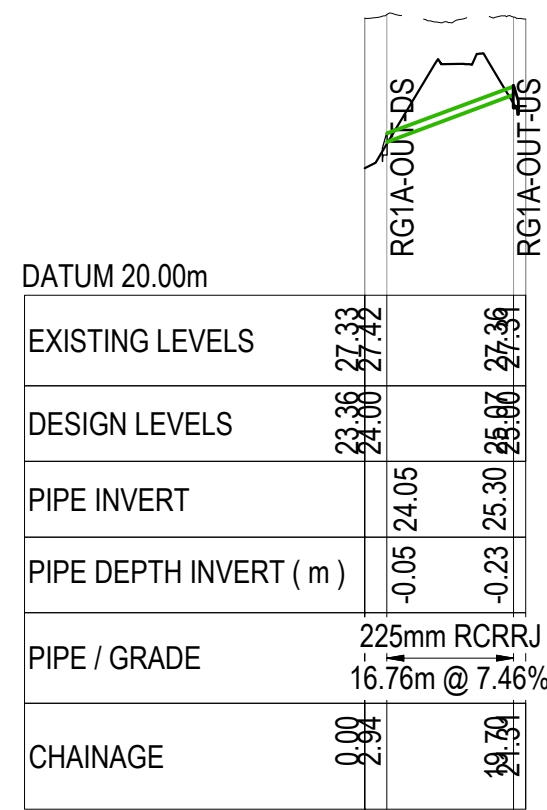
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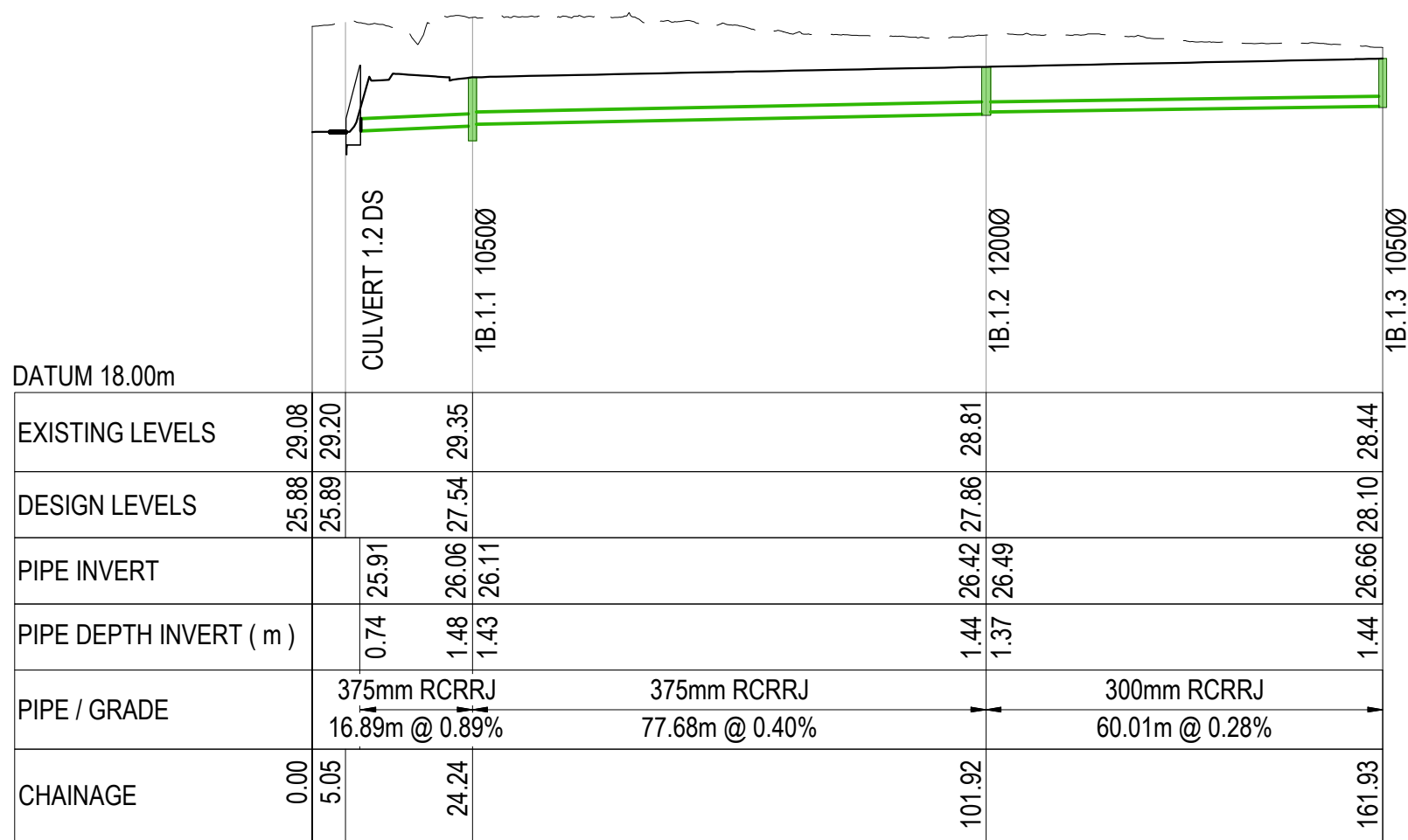
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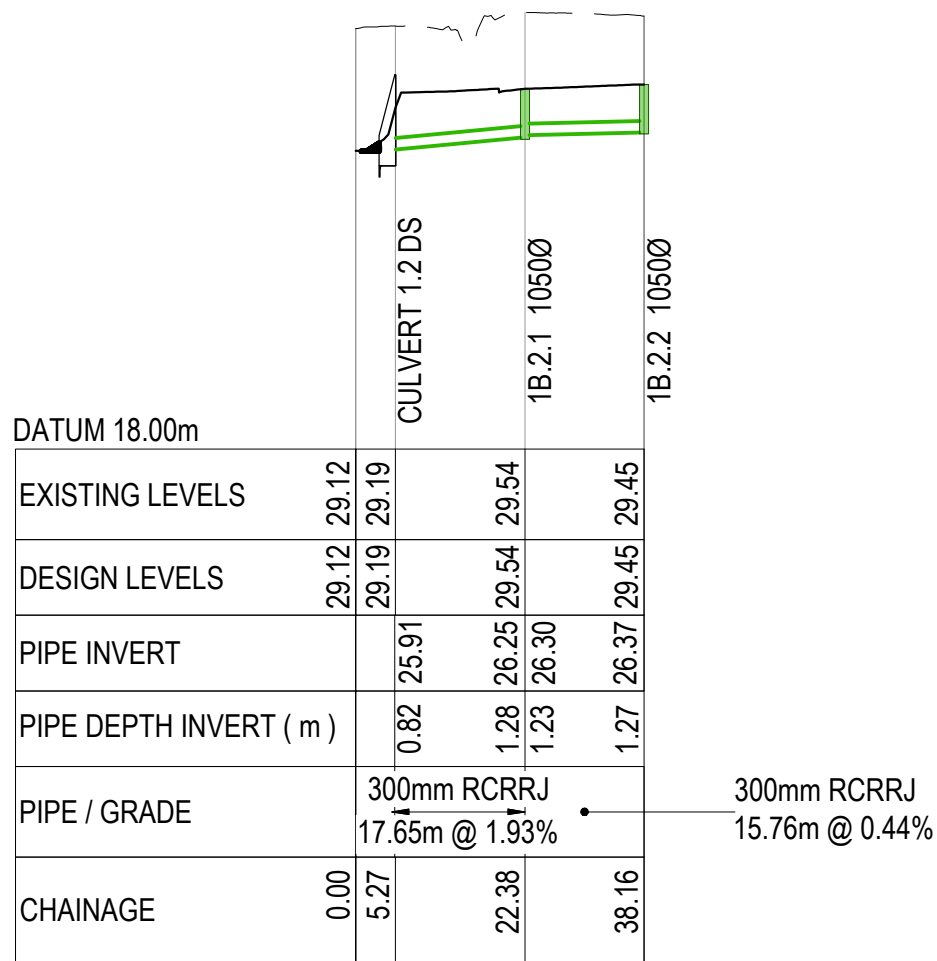
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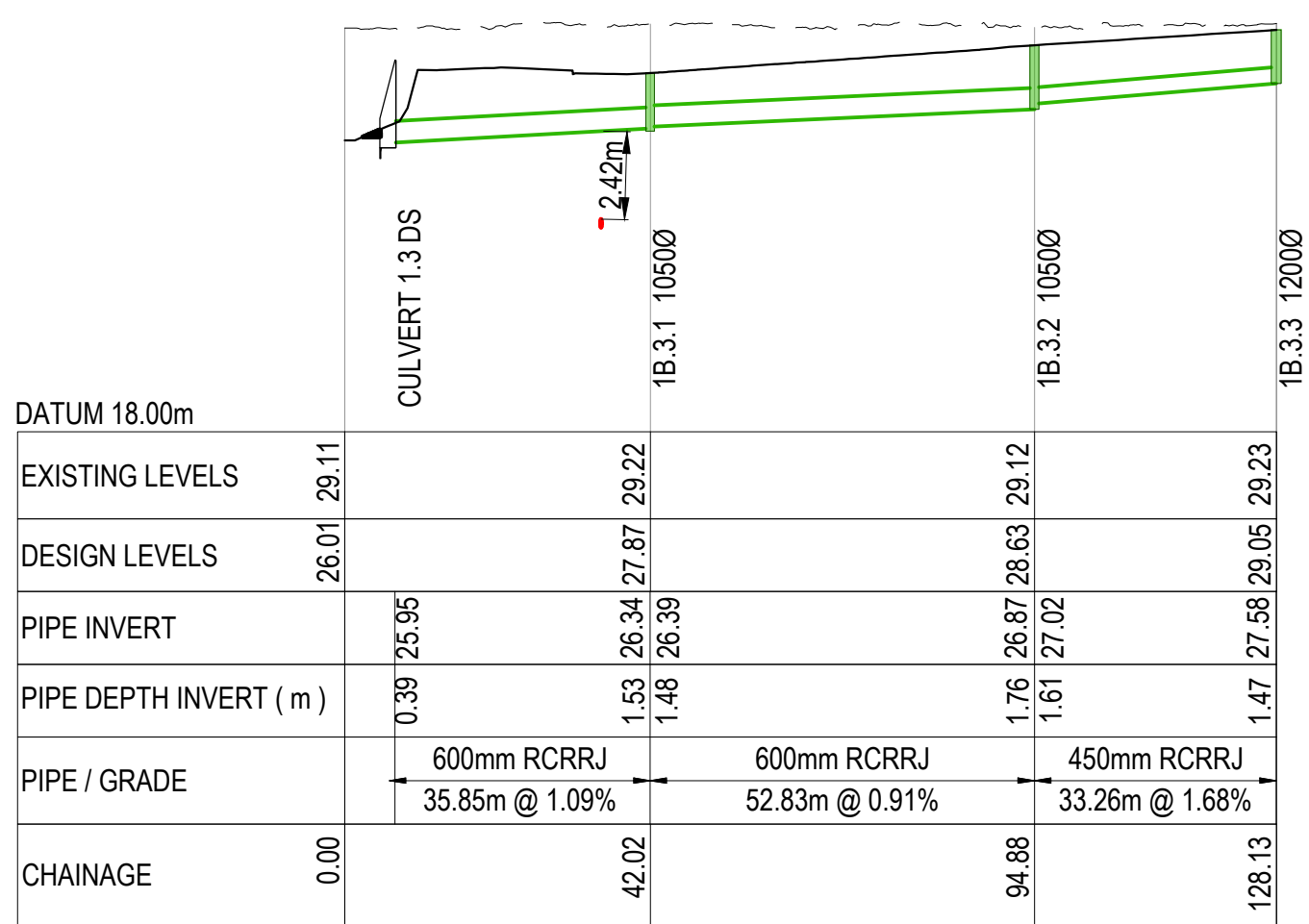
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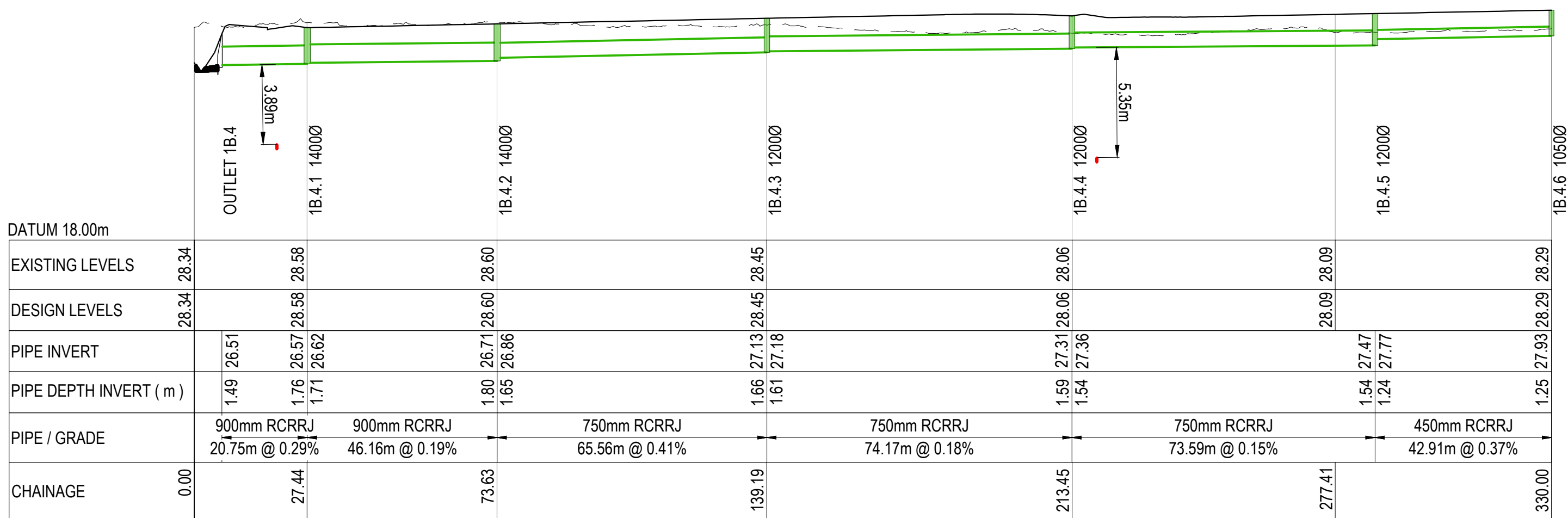
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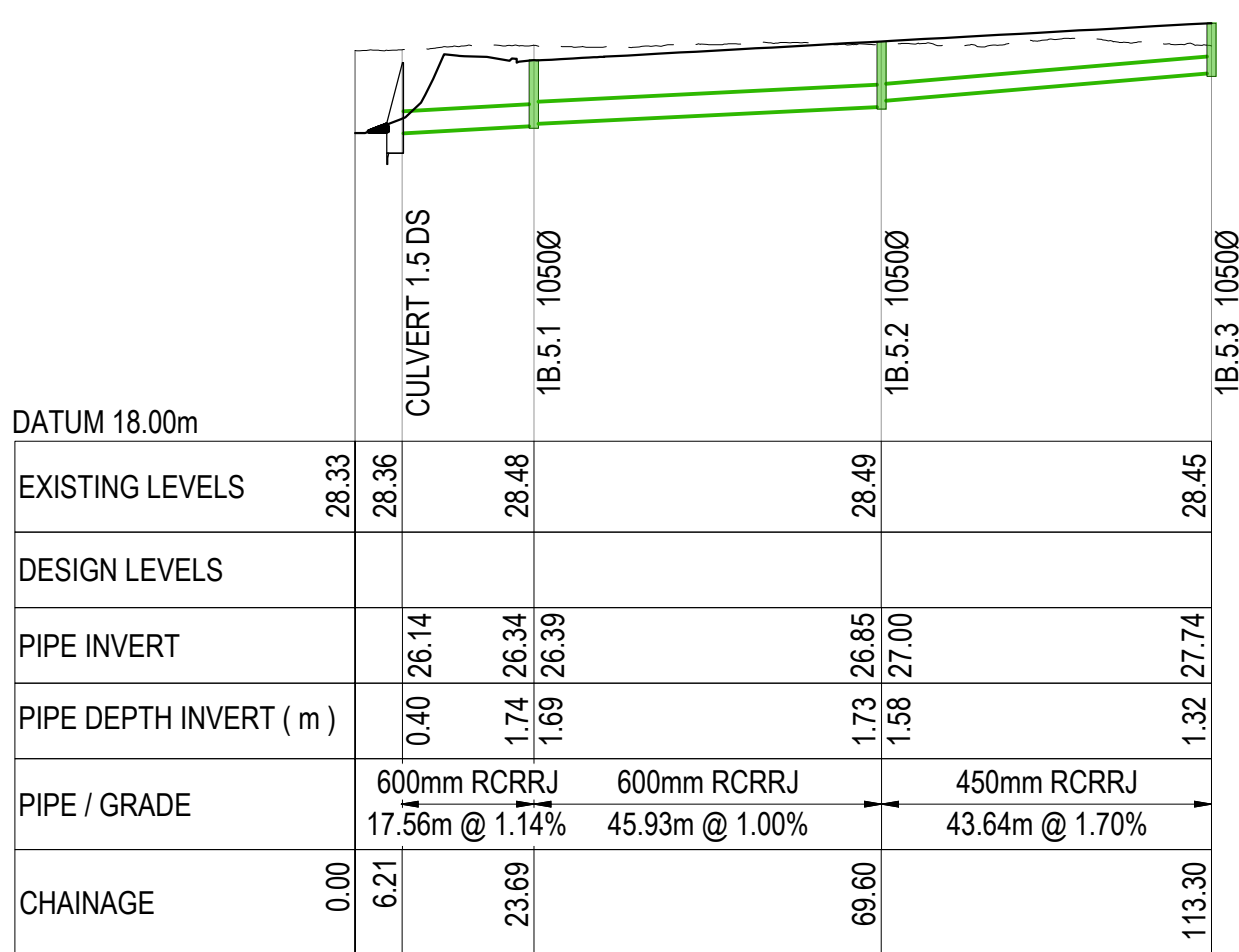
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SW LINE 1.3DS-1B.3.1-3.3
SCALE: HORI 1:1000 VERT 1:200



SW LINE 1B4.1-4.4
SCALE: HORI 1:1000 VERT 1:200



SW LINE 1.5DS-1B.5.2
SCALE: HORI 1:1000 VERT 1:200

- NOTES
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- CROSSING PIPE

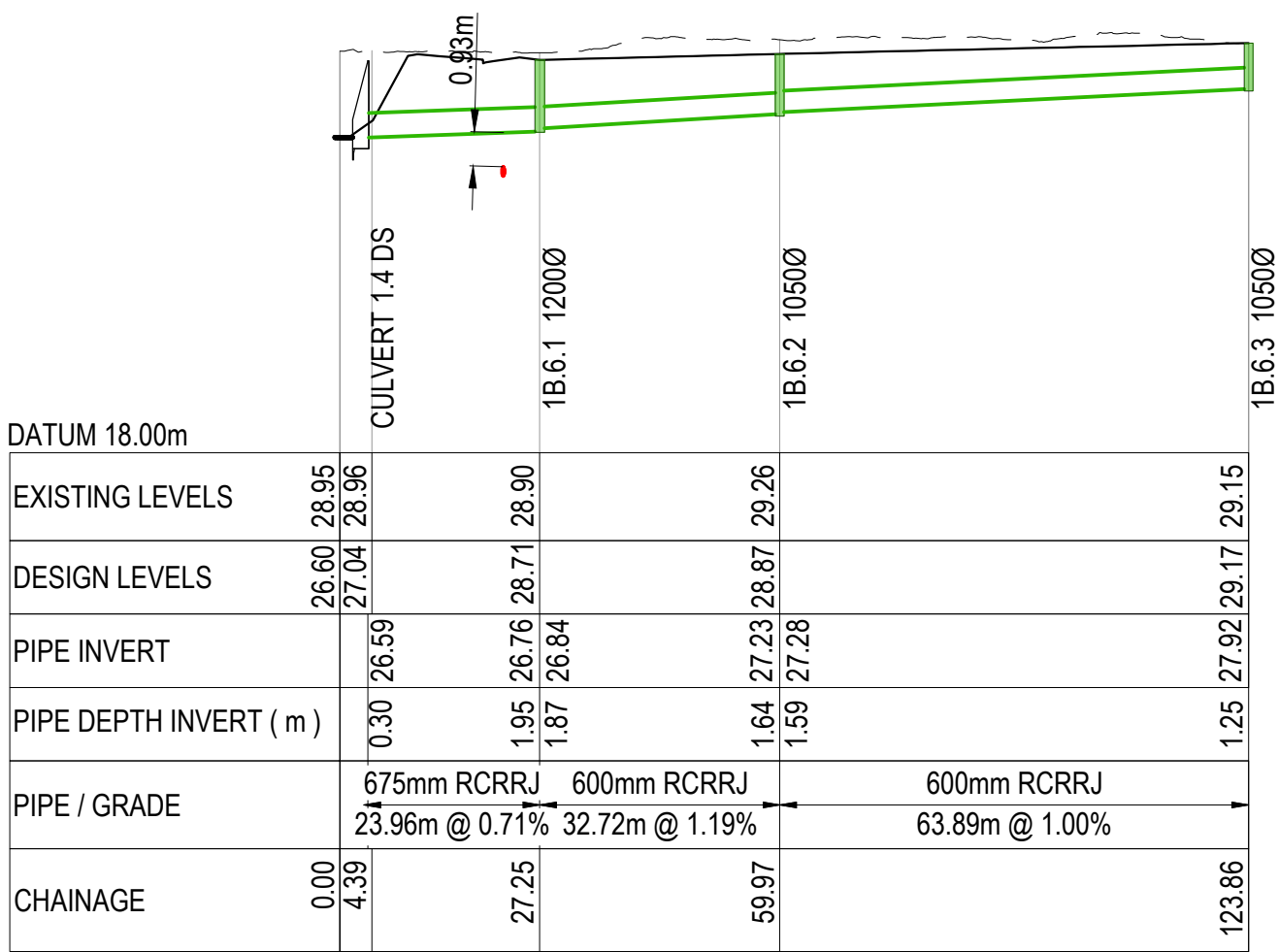
Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026

Project
MAVEN Associates
03 571 0500
maven@maaven.co.nz
www.maaven.co.nz

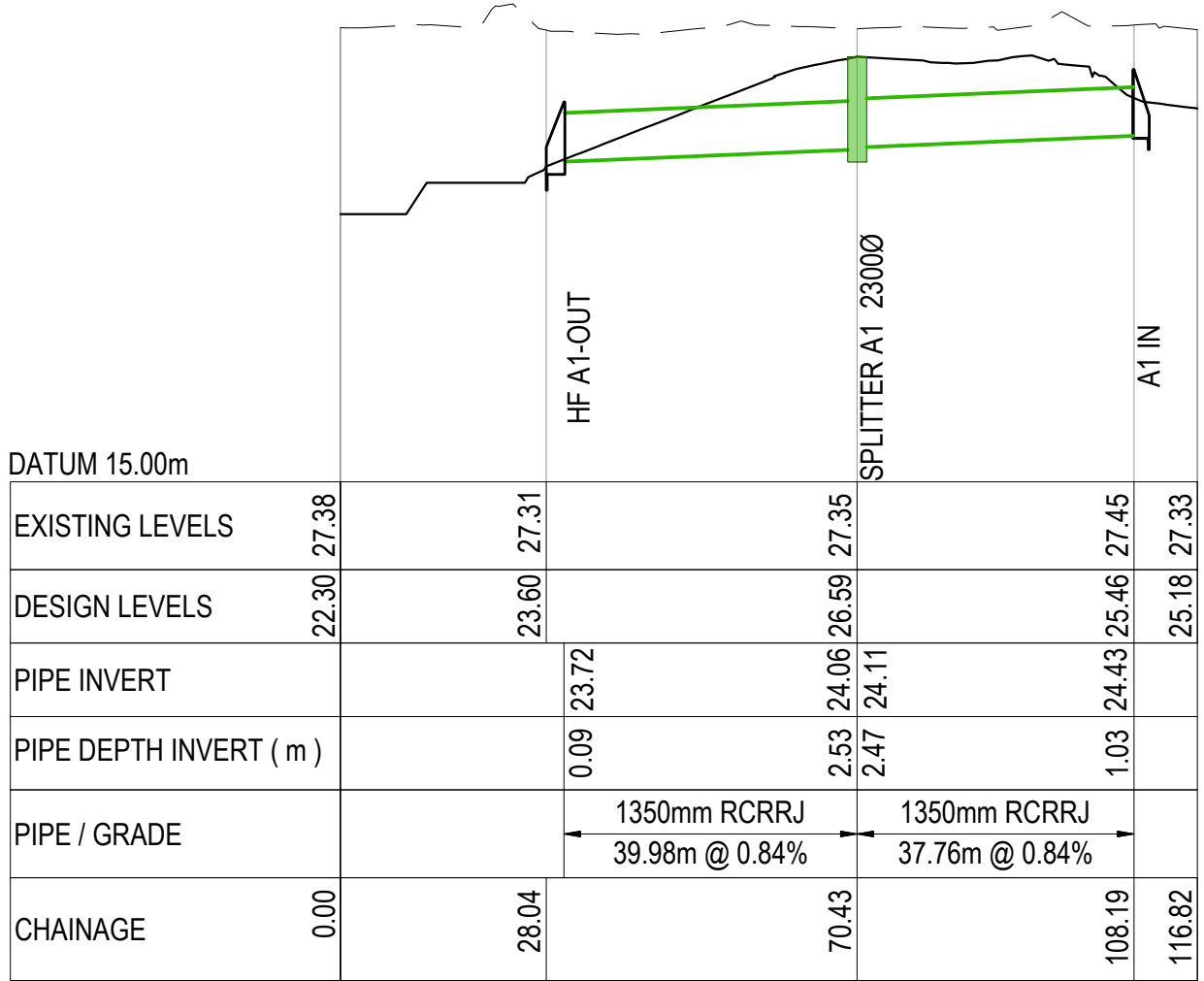
PROPOSED INDUSTRIAL
DEVELOPMENT AT
TE KOWHAI EAST
FOR TE KOWHAI EAST
LIMITED PARTNERSHIP

Title
PR STORMWATER
LONGSETIONS
CATCHMENT 1

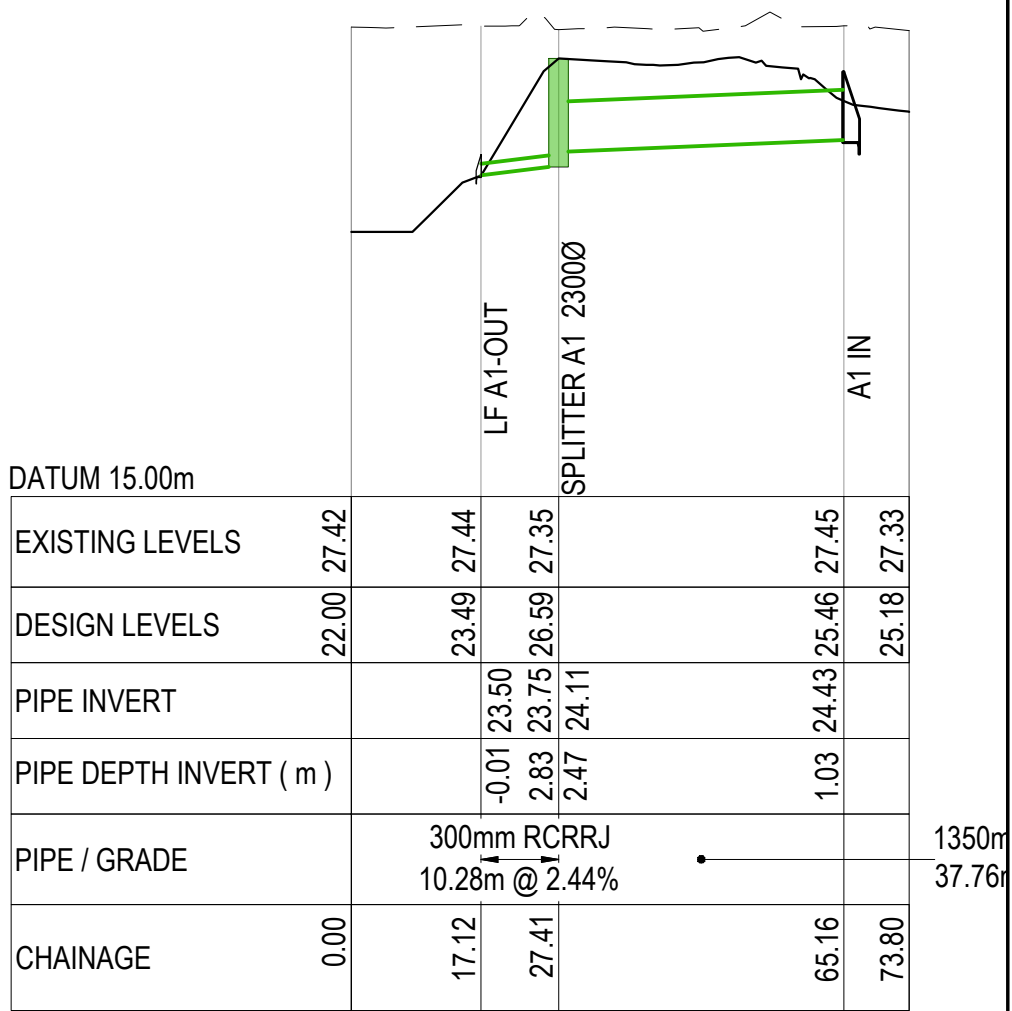
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Scale 1:1000 @ A1
Cad file 180010-C421-SW LONG SETIONS
Drawing no. C421-1 Rev A



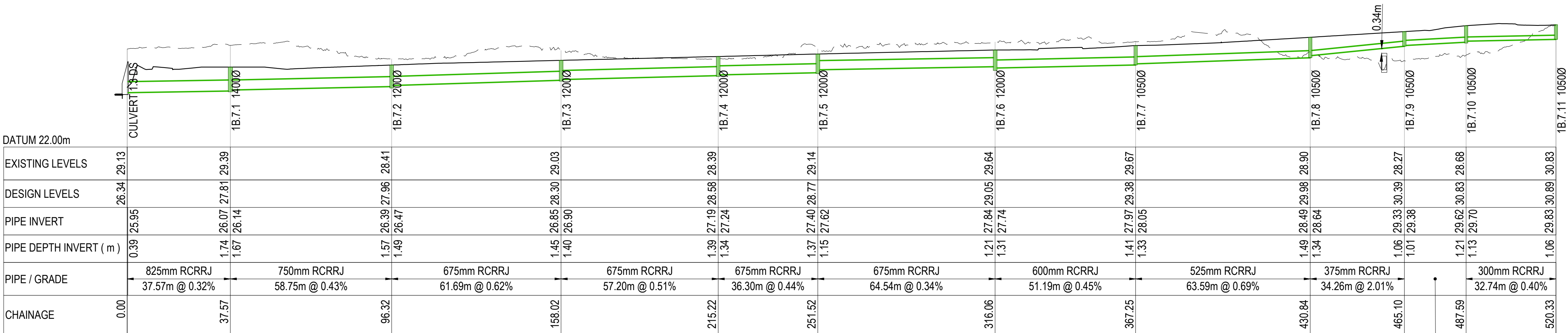
SW LINE 1B 6.1.1-1B.6.3
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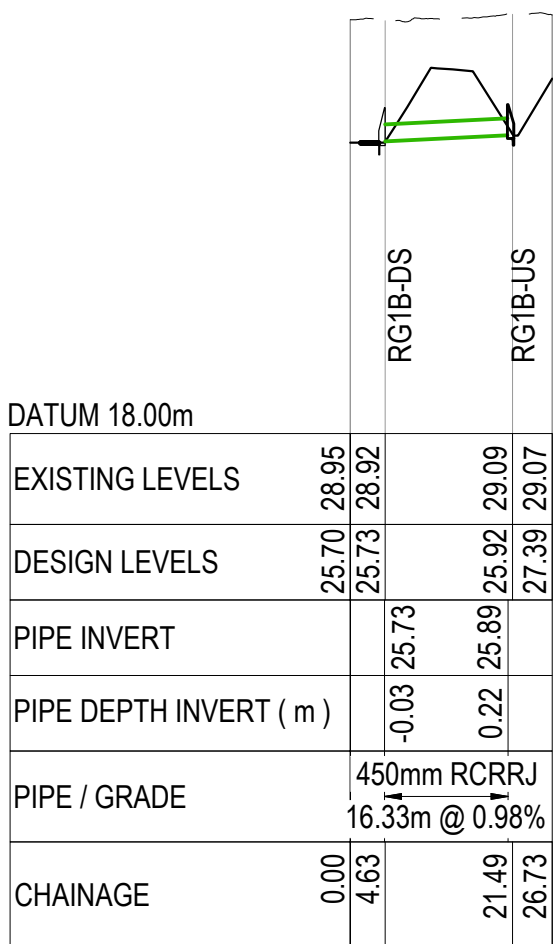
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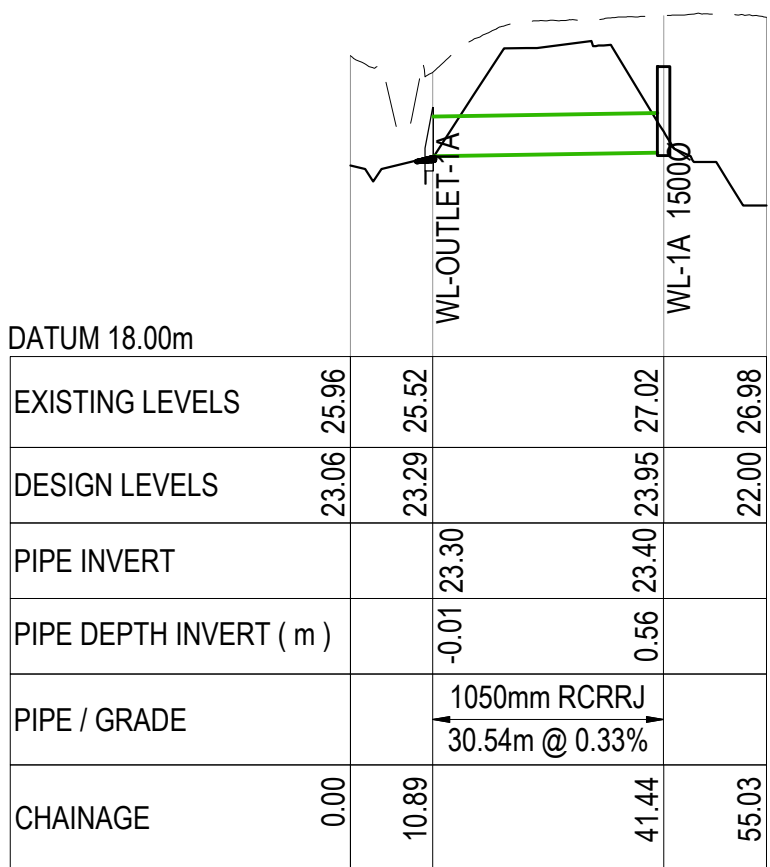
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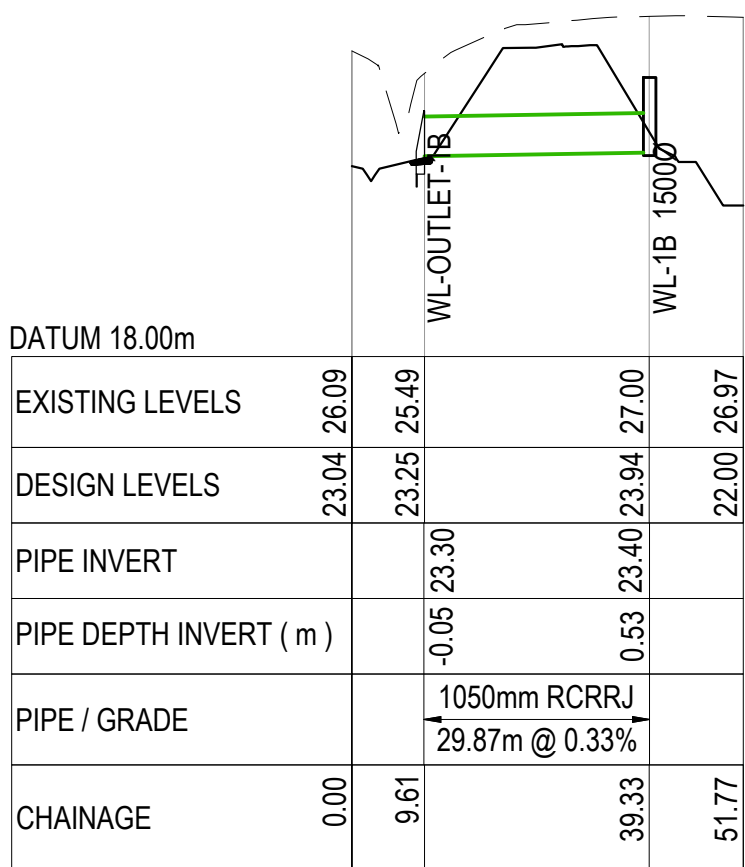
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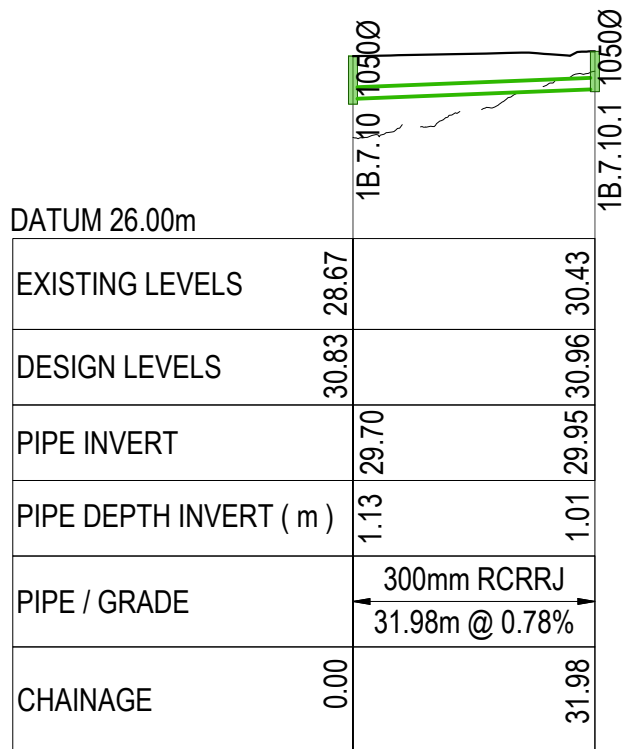
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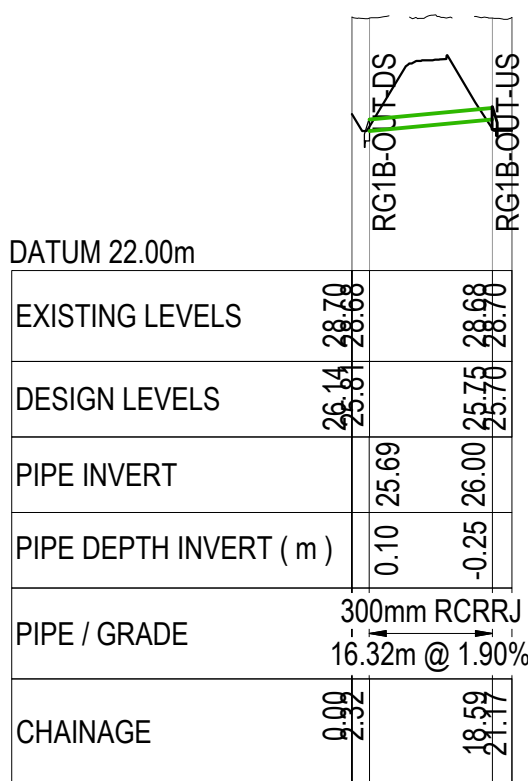
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SW LINE WL1B-OUTLET
SCALE: HORI 1:1000 VERT 1:200



1B.7.10-1B.7.10.1
SCALE: HORI 1:1000 VERT 1:200



RG-1B-OUT
SCALE: HORI 1:1000 VERT 1:200

- NOTES
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- CROSSING PIPE

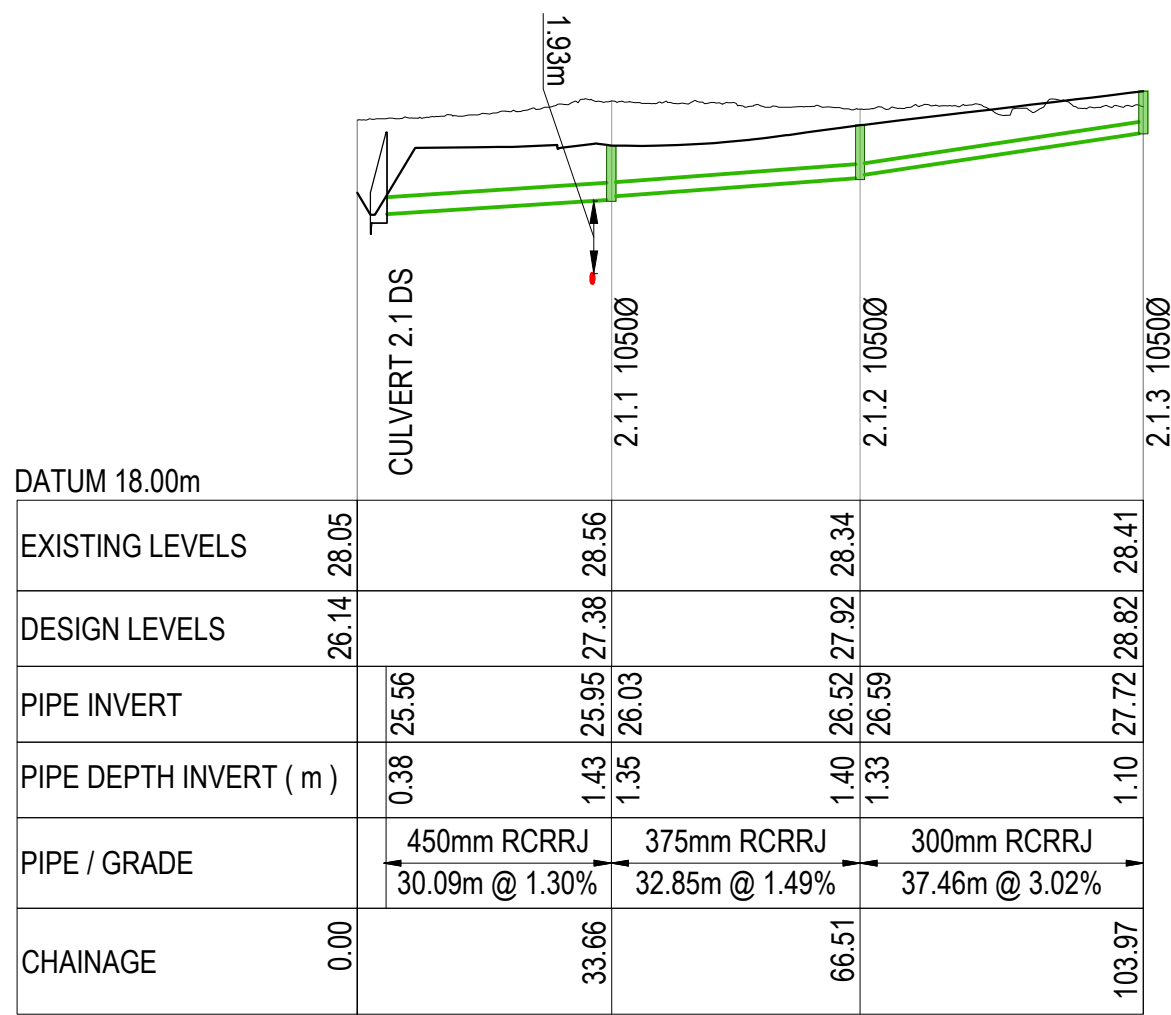
Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026
Survey	MAVEN		10/2025
Design	KY		08/2026
Drawn	SP		08/2026
Checked	RW		08/2026



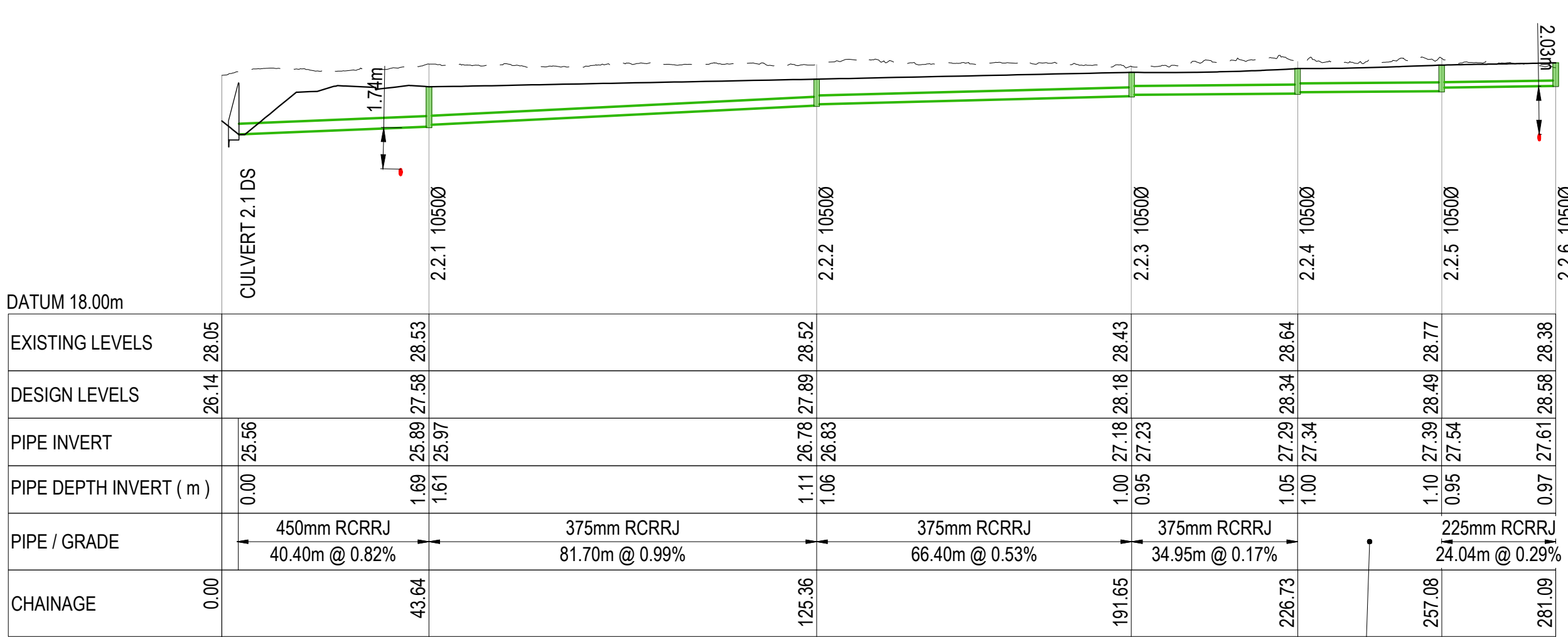
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PR STORMWATER LONGSETIONS CATCHMENT 1

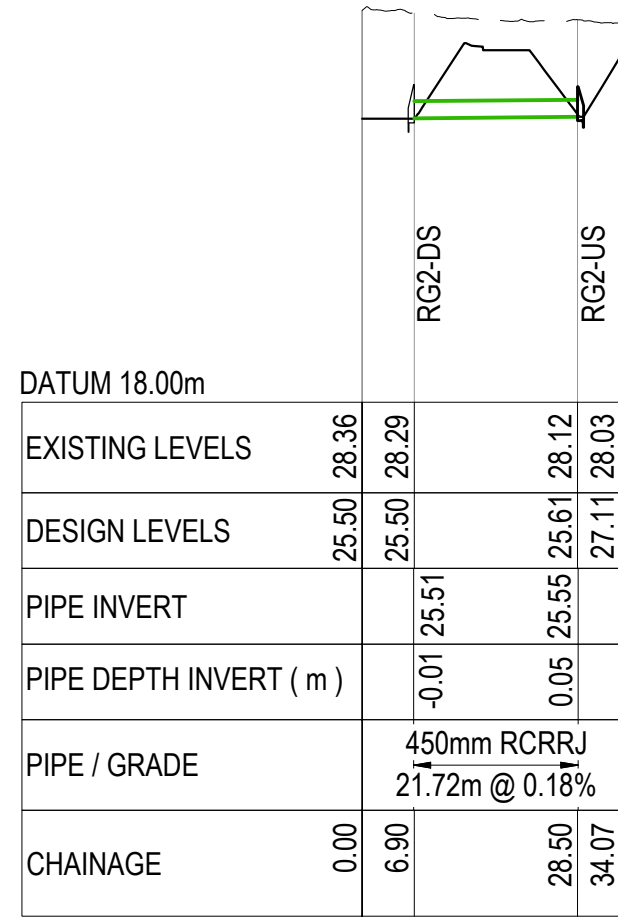
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Scale	1:1000 @ A1
Cad file	180010-C421-SW LONGSETIONS
Drawing no.	C421-2
Rev	A



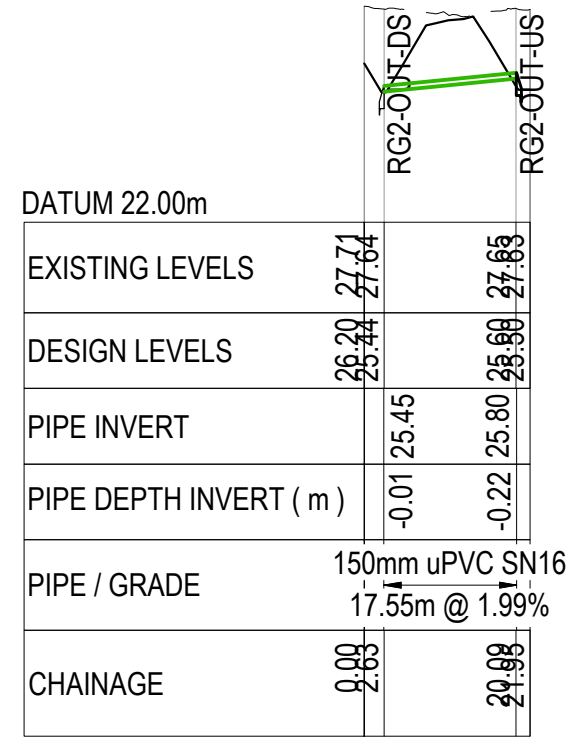
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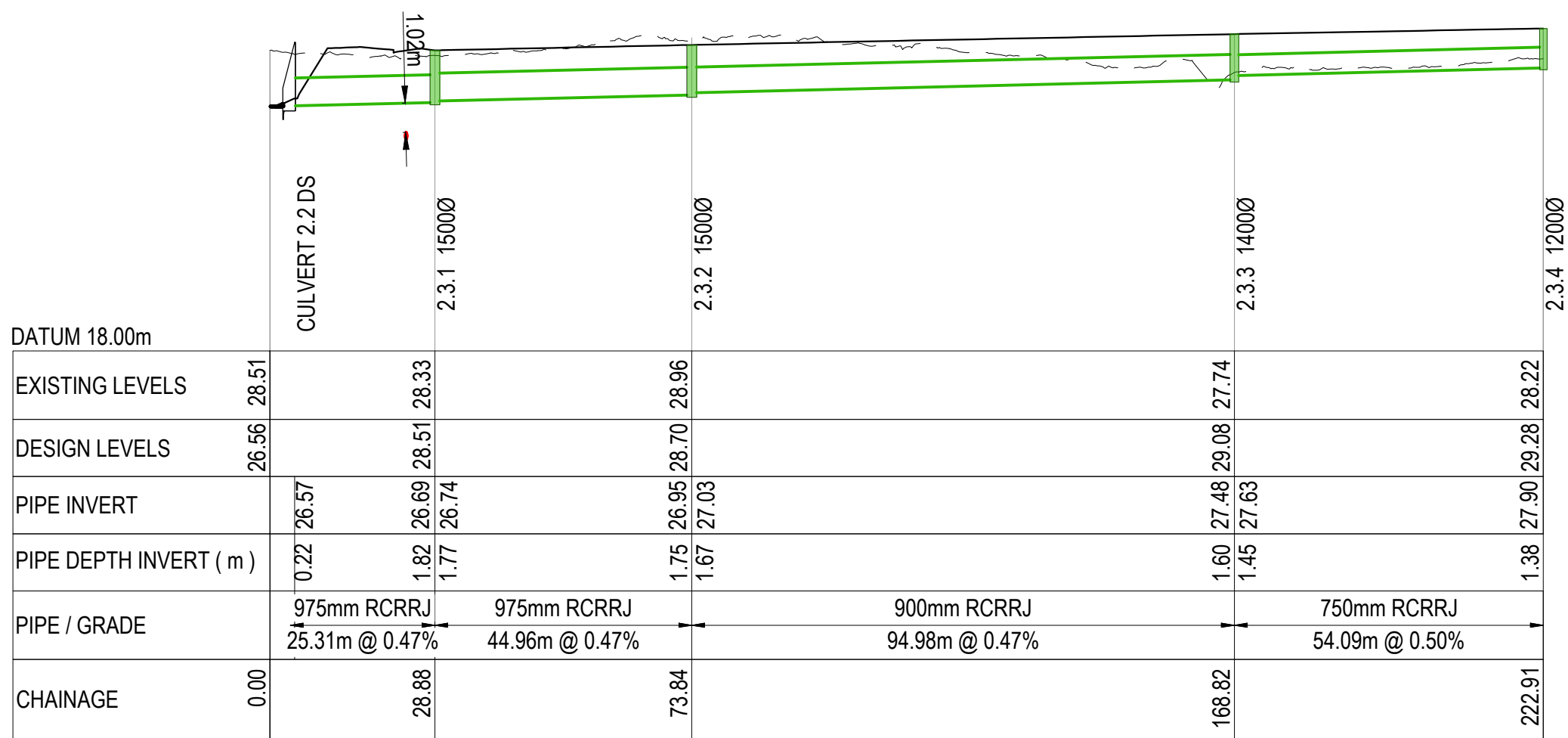
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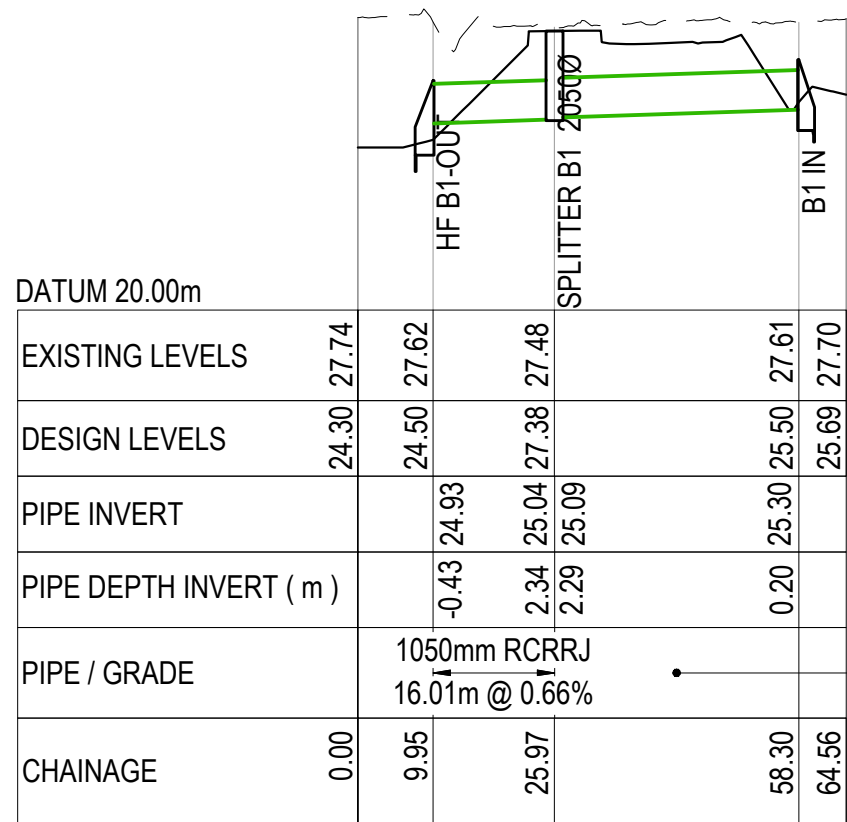
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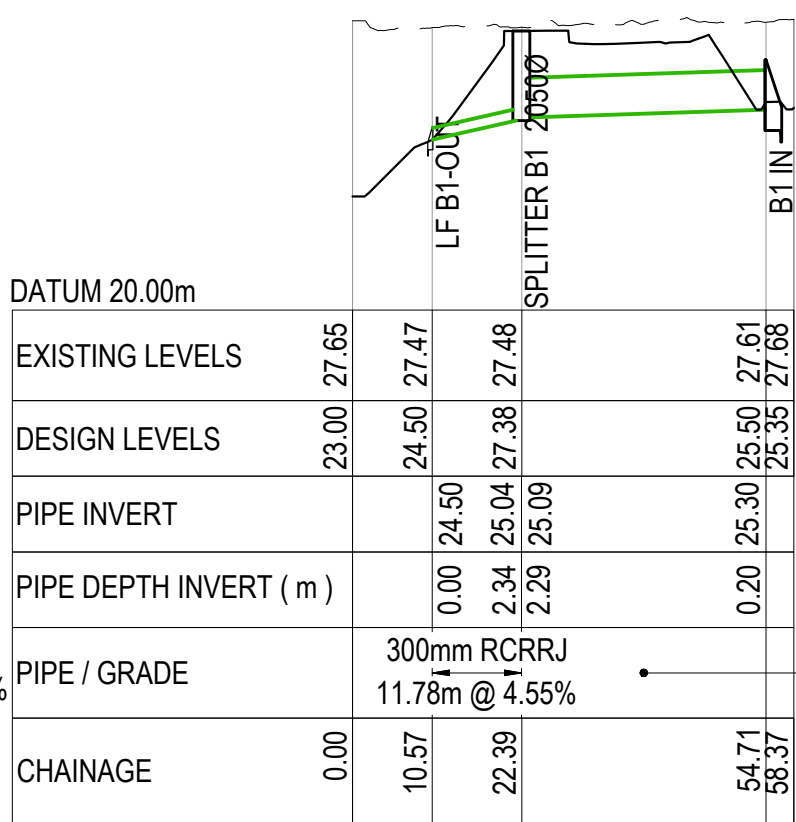
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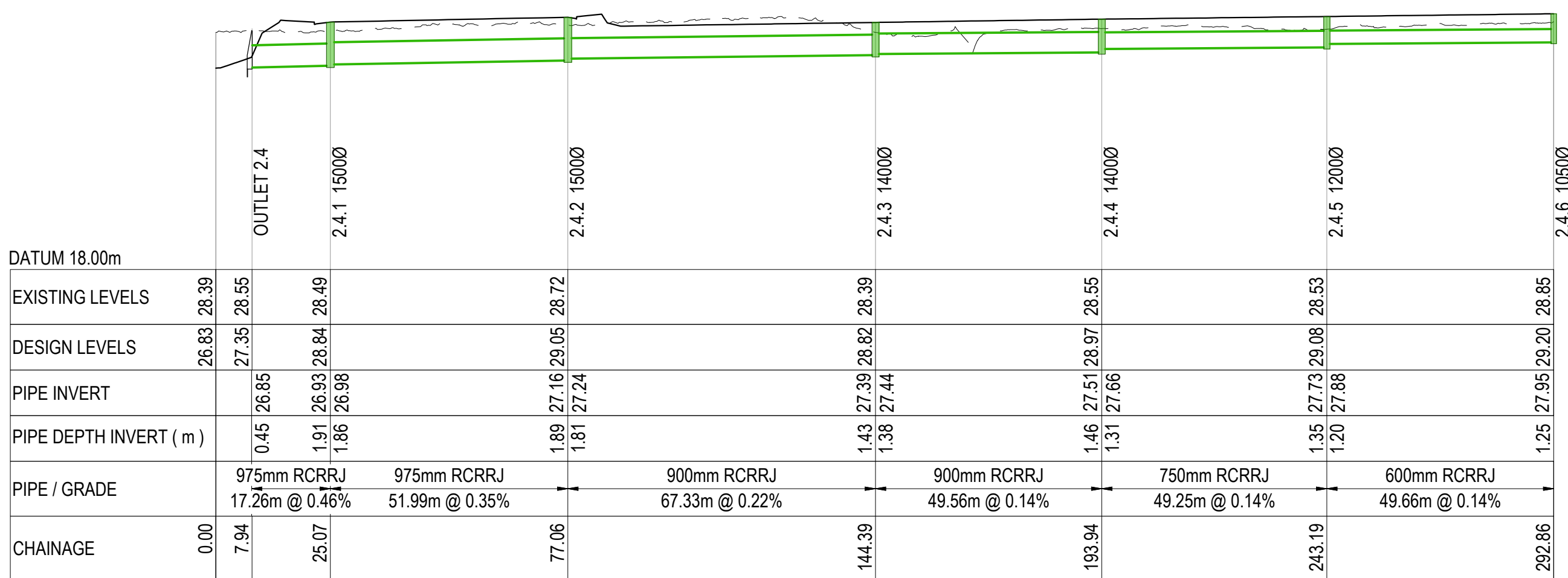
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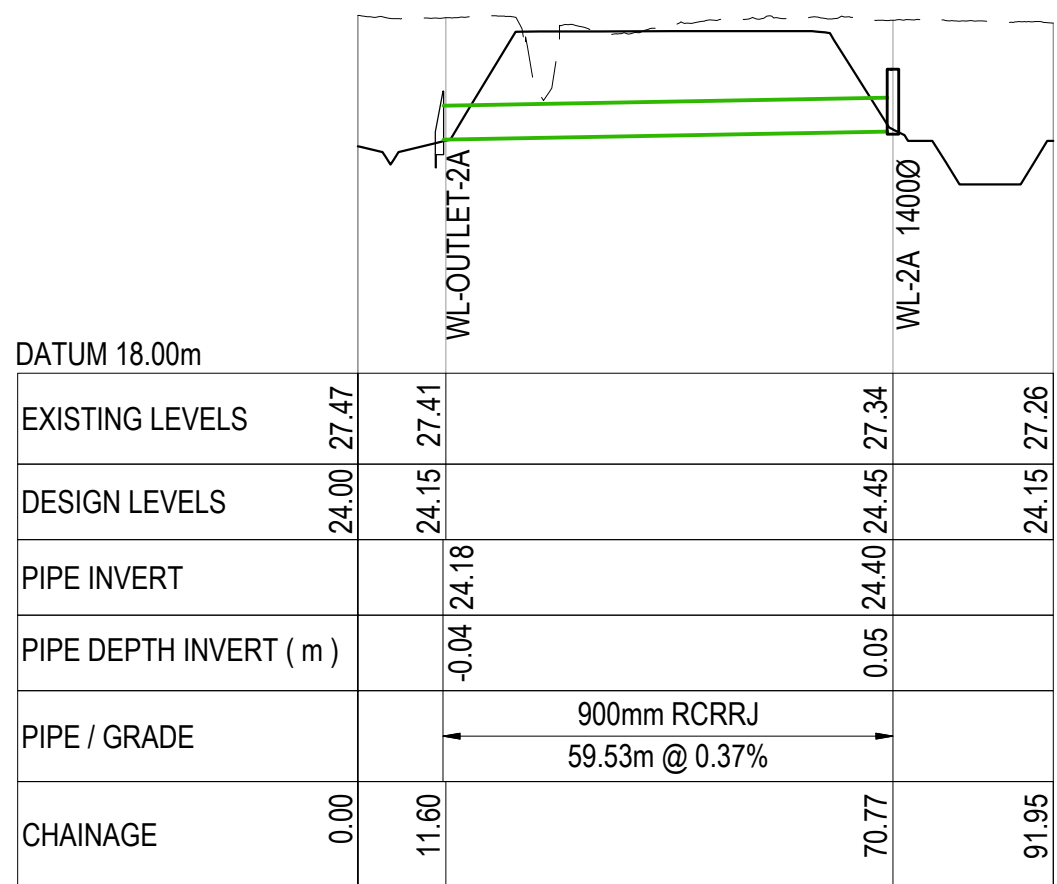
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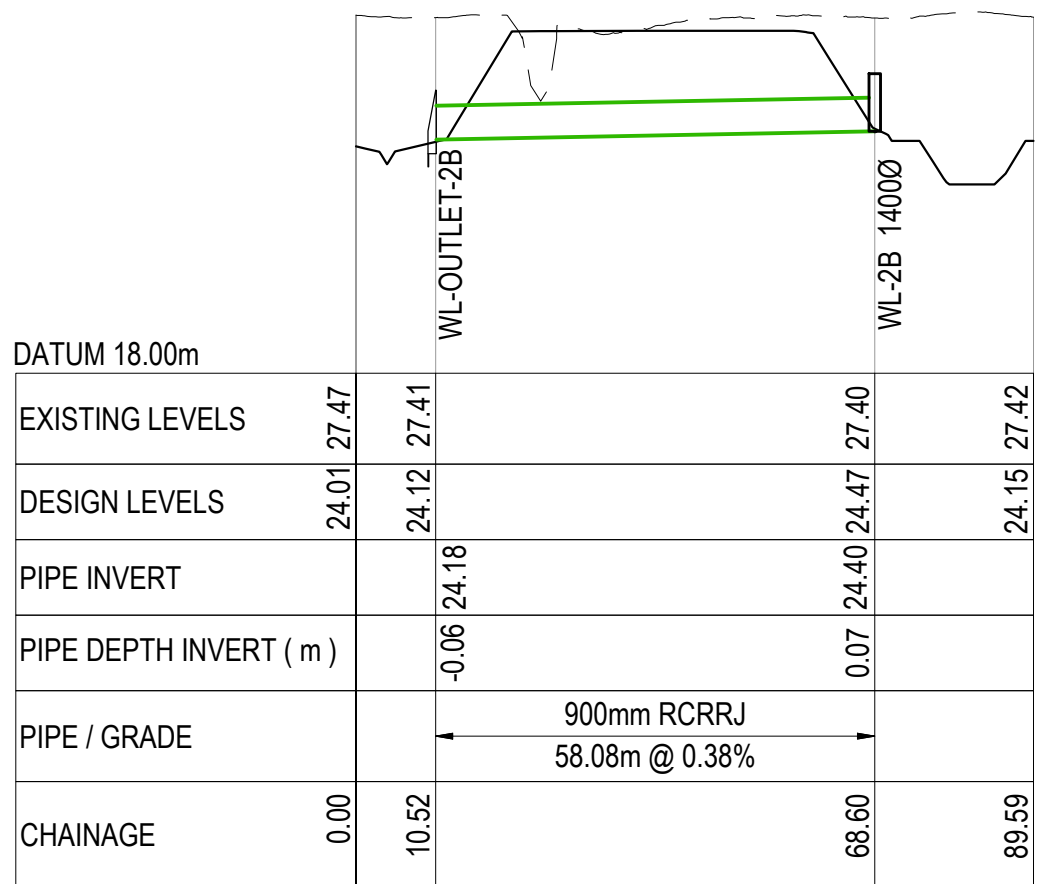
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SCALE: HORI 1:1000 VERT 1:200



SW LINE 2.2 DS-2.4.4
SCALE: HORI 1:1000 VERT 1:200



SW LINE WL2-OUTLET
SCALE: HORI 1:1000 VERT 1:200



SW LINE WL2B-OUTLET
SCALE: HORI 1:1000 VERT 1:200

- NOTES
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- LEGEND
- EX GROUND LEVEL
 - PR GROUND LEVEL
 - CROSSING PIPE

Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026

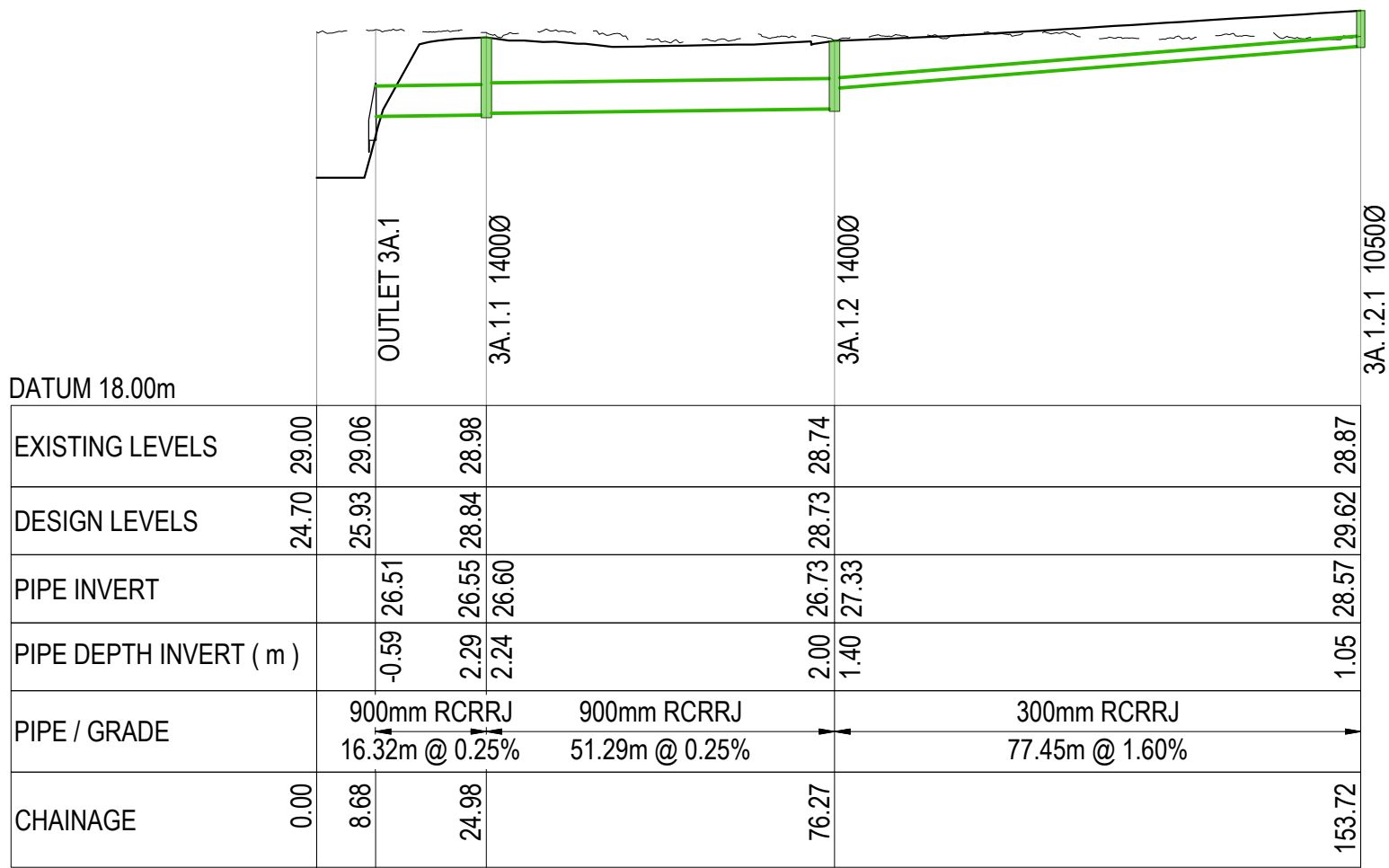
Survey	MAVEN	Date	10/2025
Design	KY	Date	08/2026
Drawn	SP	Date	08/2026
Checked	RW	Date	08/2026

Maven Associates
03 571 0505
info@maven.co.nz
www.maven.co.nz
5 Queens Road, Epsom
Auckland 1050

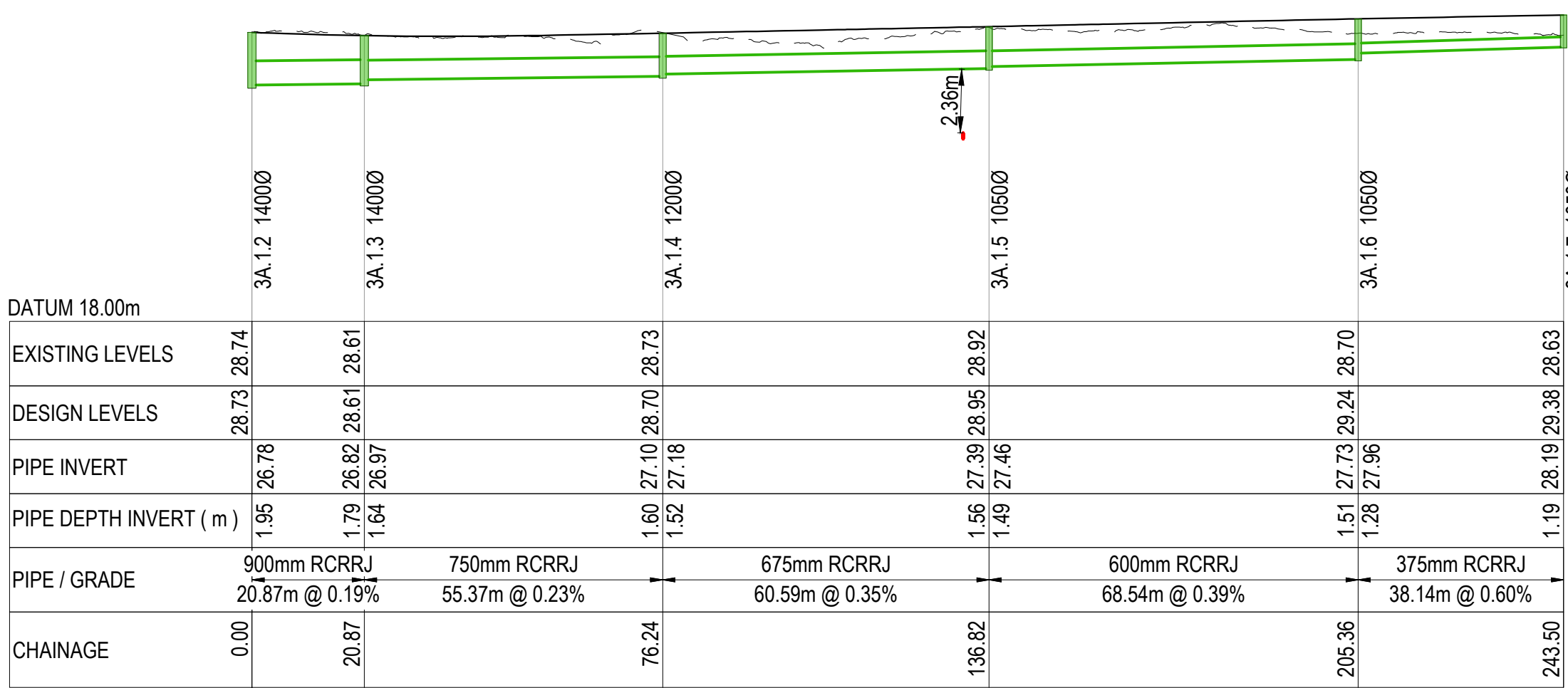
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PR STORMWATER LONGSETIONS CATCHMENT 2

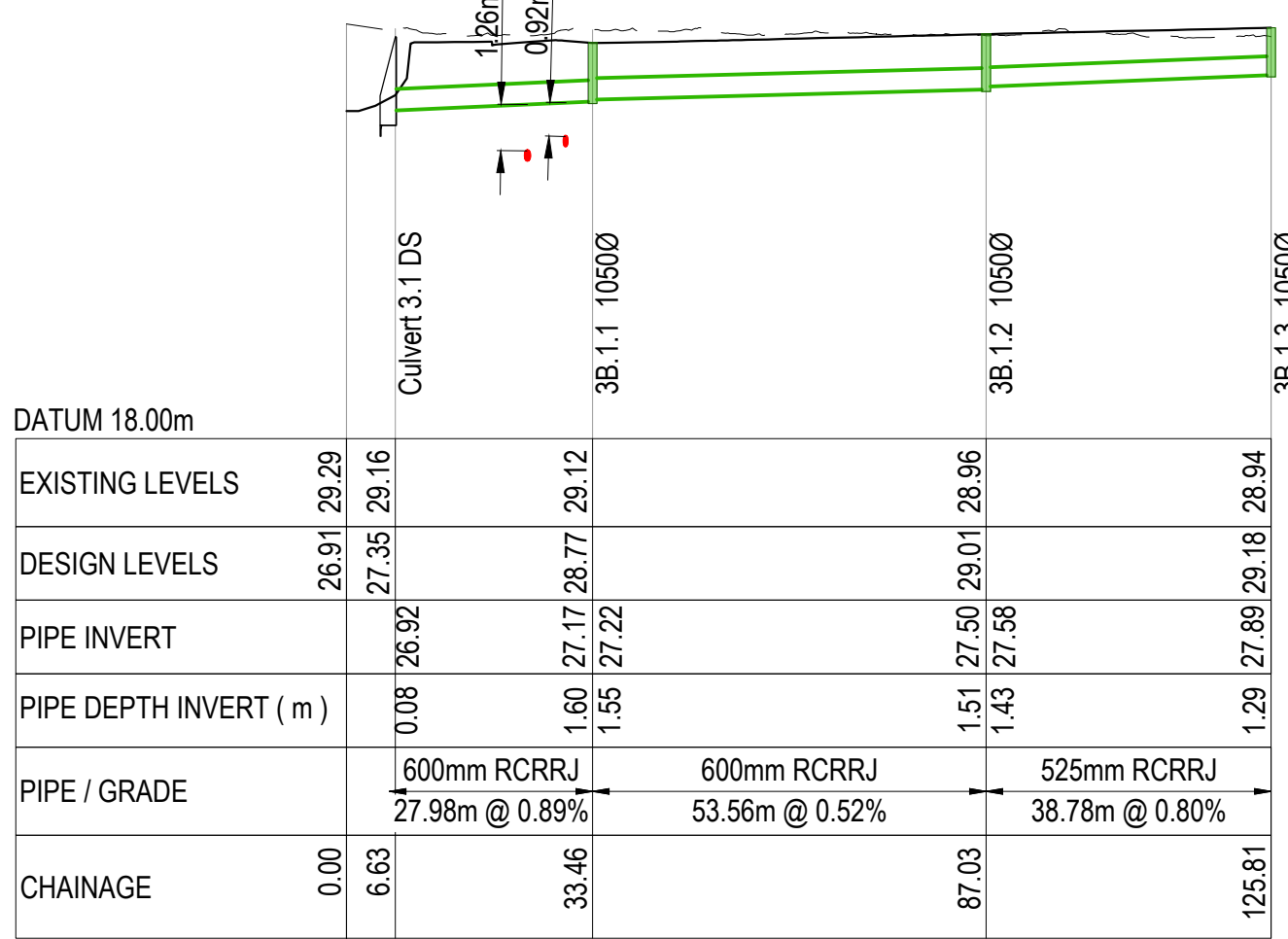
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Drawing no.	C422-1
Rev	A



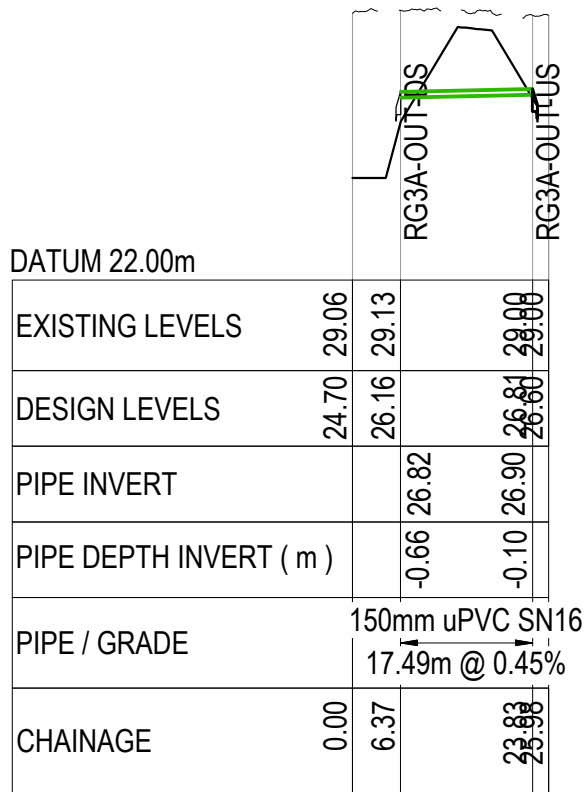
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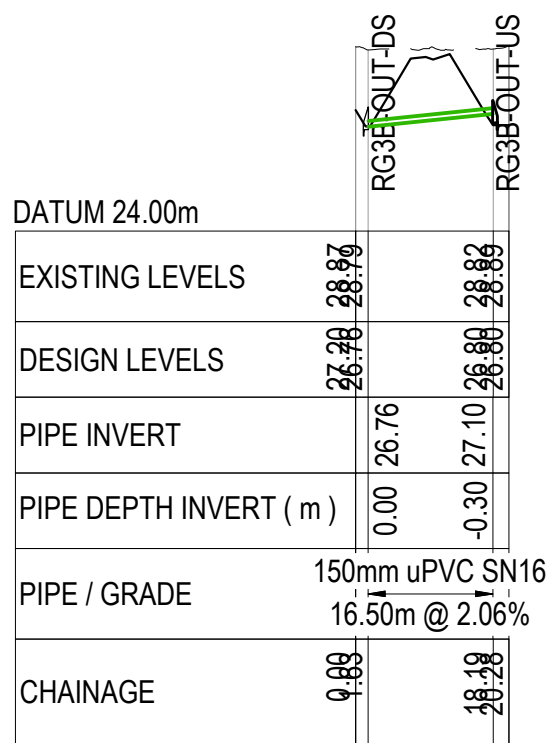
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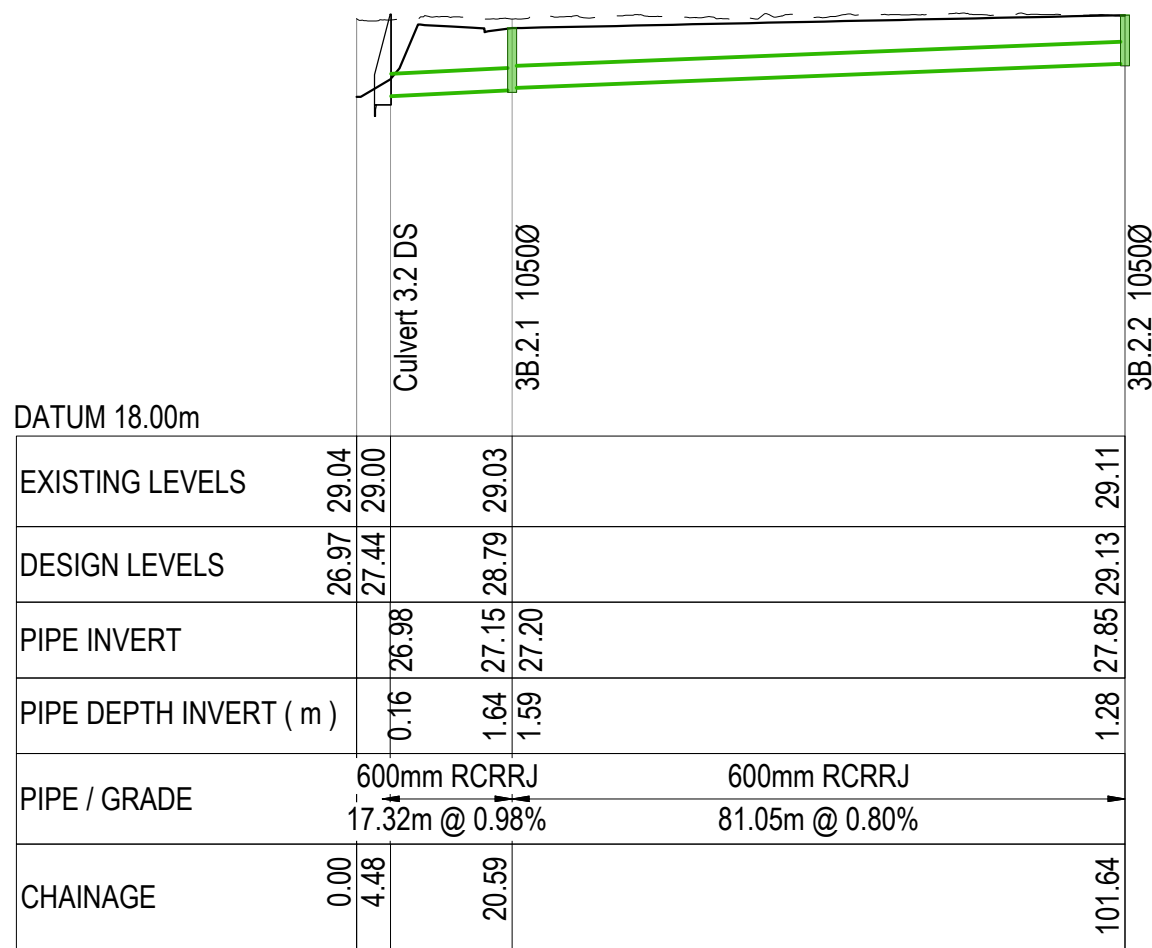
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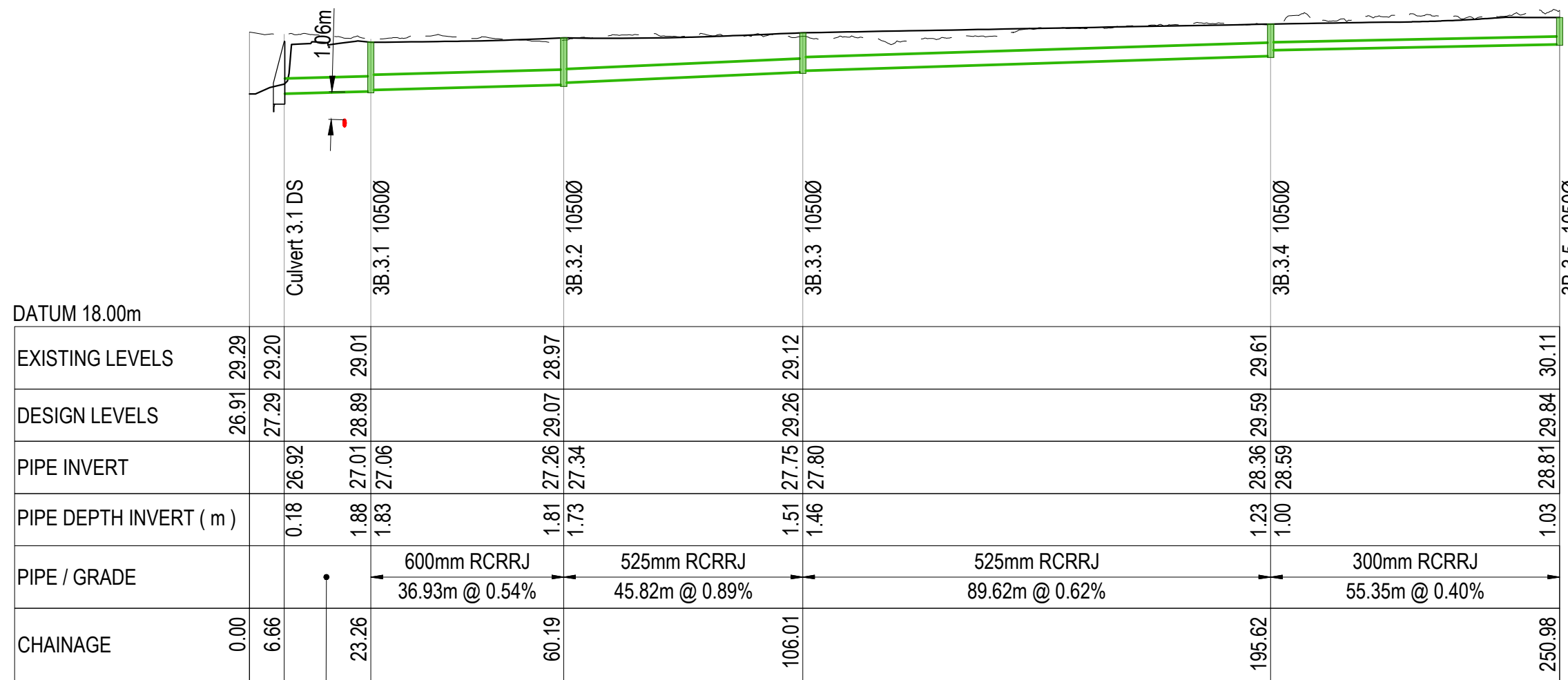
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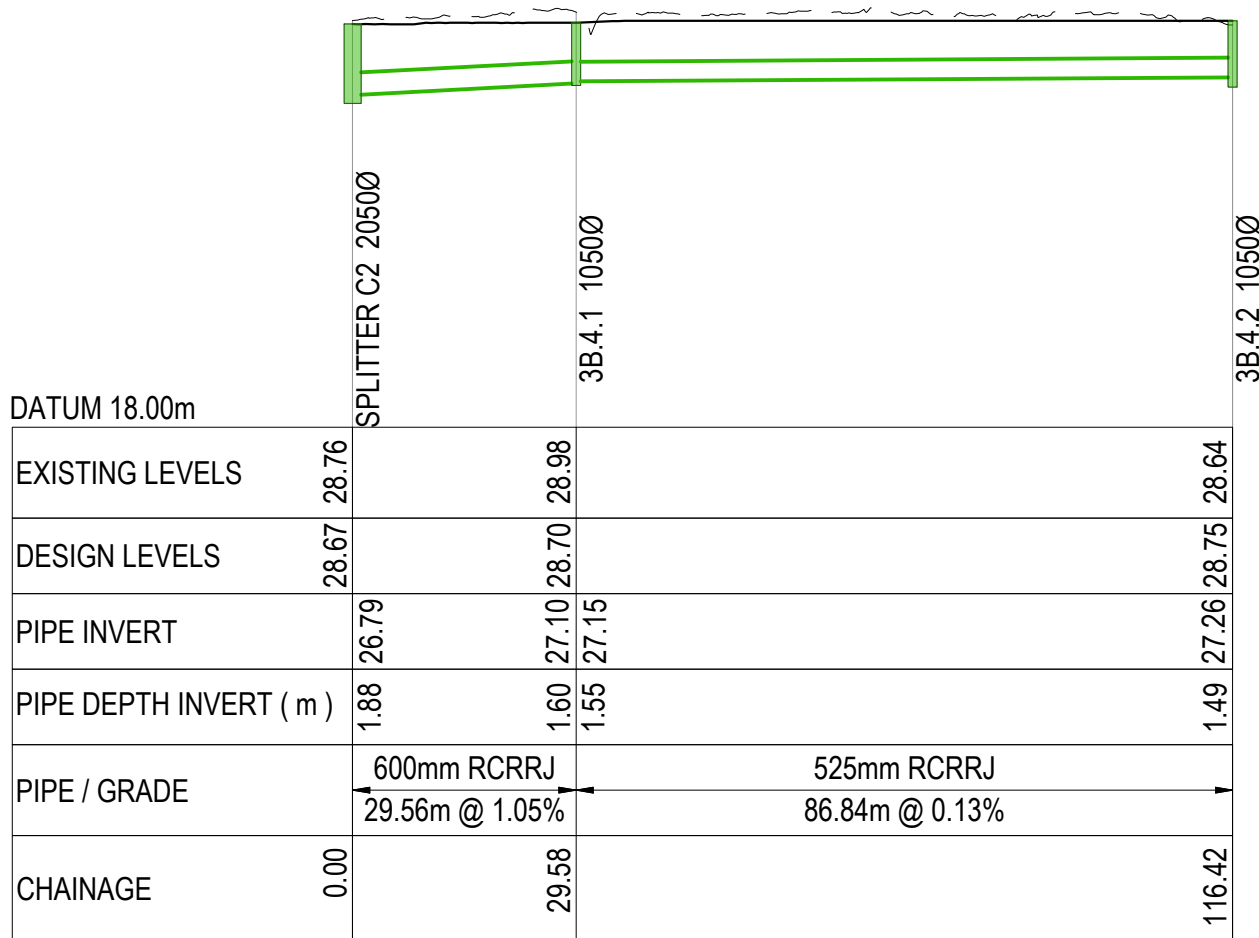
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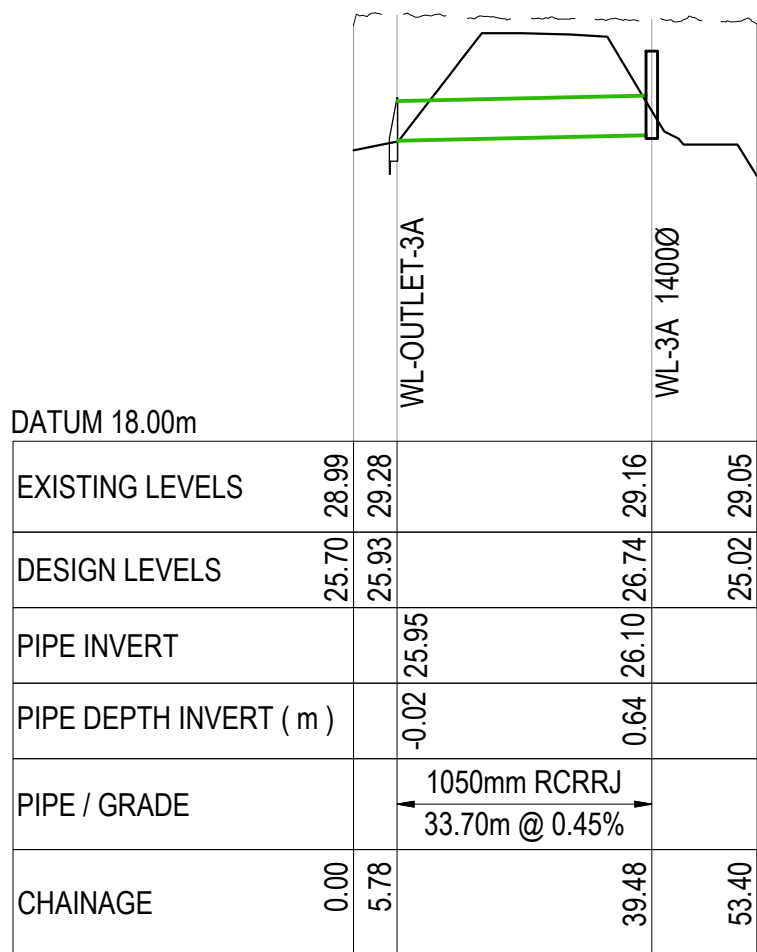
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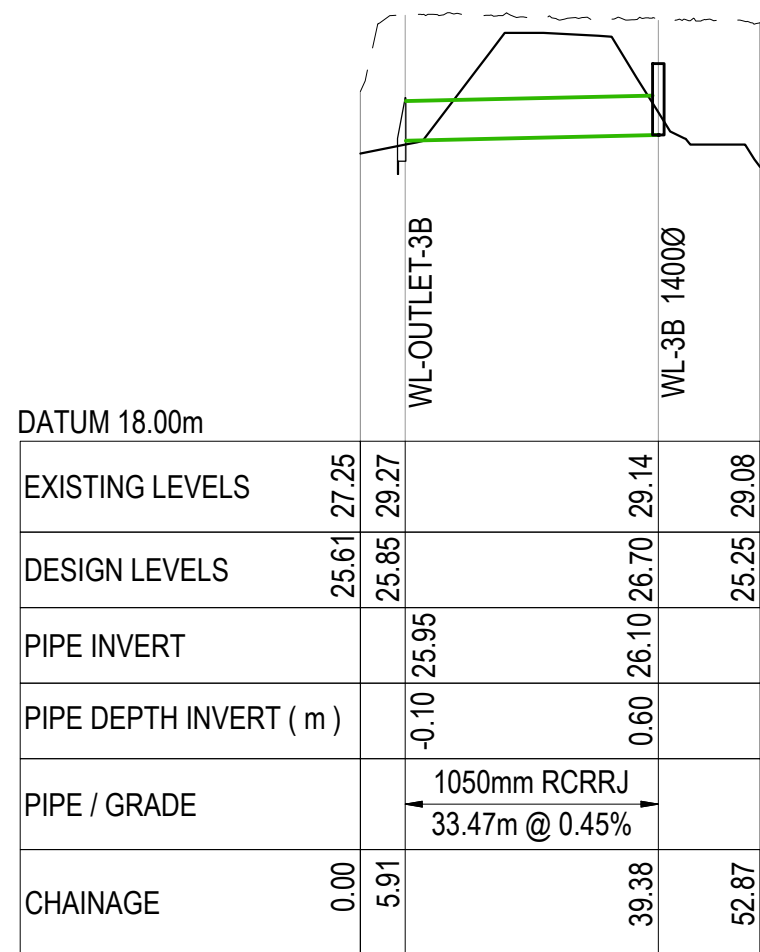
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SW LINE 3B.4-3B.4.1
SCALE: HORI 1:1000 VERT 1:200



SW LINE WL3A-OUTLET
SCALE: HORI 1:1000 VERT 1:200



SW LINE WL3B-OUTLET
SCALE: HORI 1:1000 VERT 1:200

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/IAWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.

LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- CROSSING PIPE

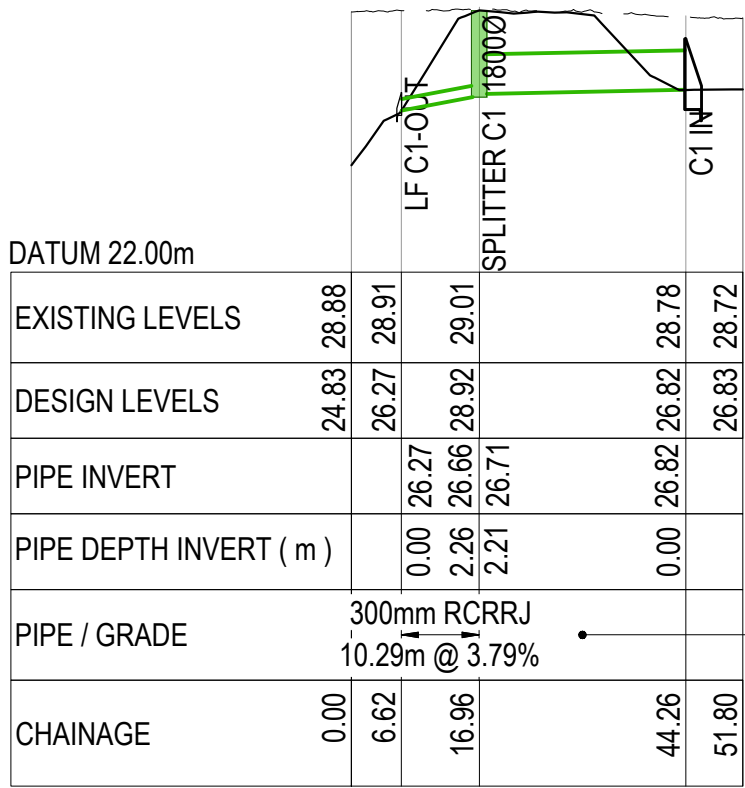
Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026

Project
Maven Associates
03 571 0502
maven@mvn.co.nz
www.mvncorp.co.nz
5 Omana Road, Epsom
Auckland 1052

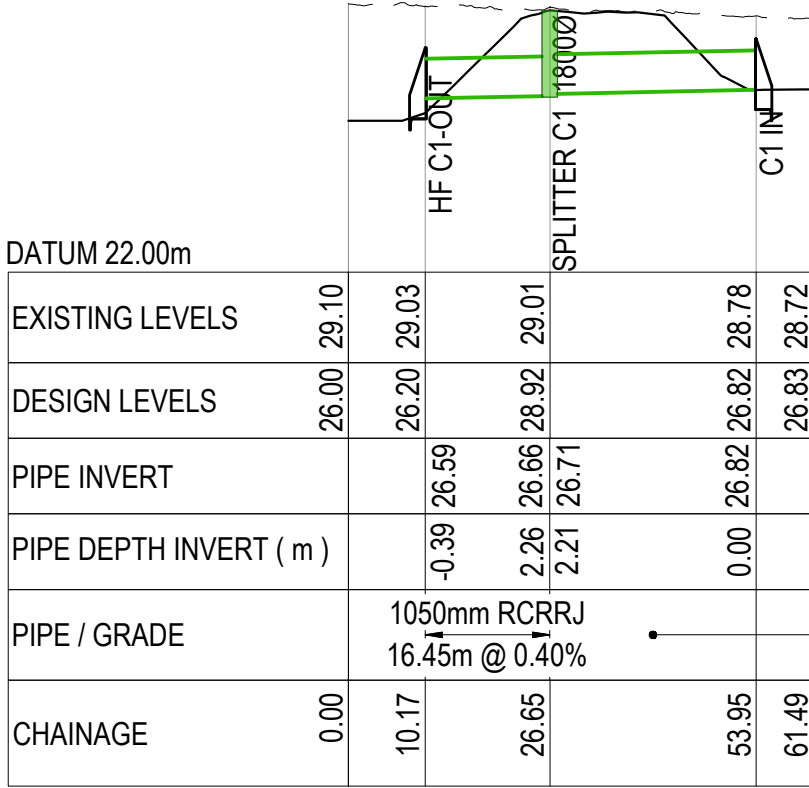
PROPOSED INDUSTRIAL
DEVELOPMENT AT
TE KOWHAI EAST
FOR TE KOWHAI EAST
LIMITED PARTNERSHIP

Title
PR STORMWATER
LONGSETIONS
CATCHMENT 3

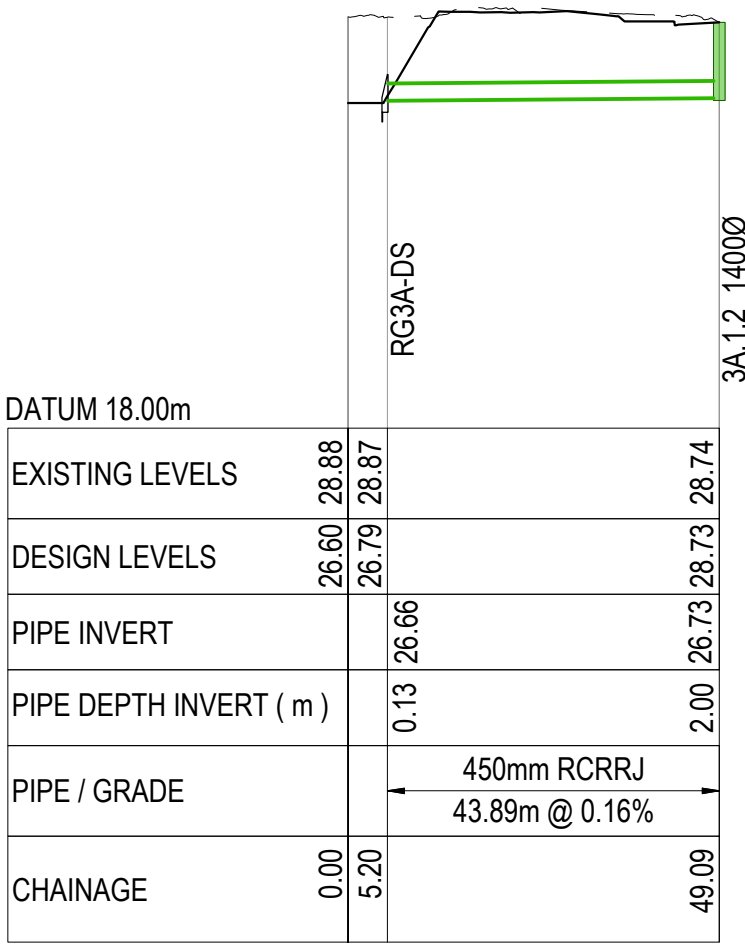
Project no. 180010
Scale 1:1000 @ A1
Cad file 180010-C423-39A LONG SETIONS
Drawing no. C423-1 Rev A



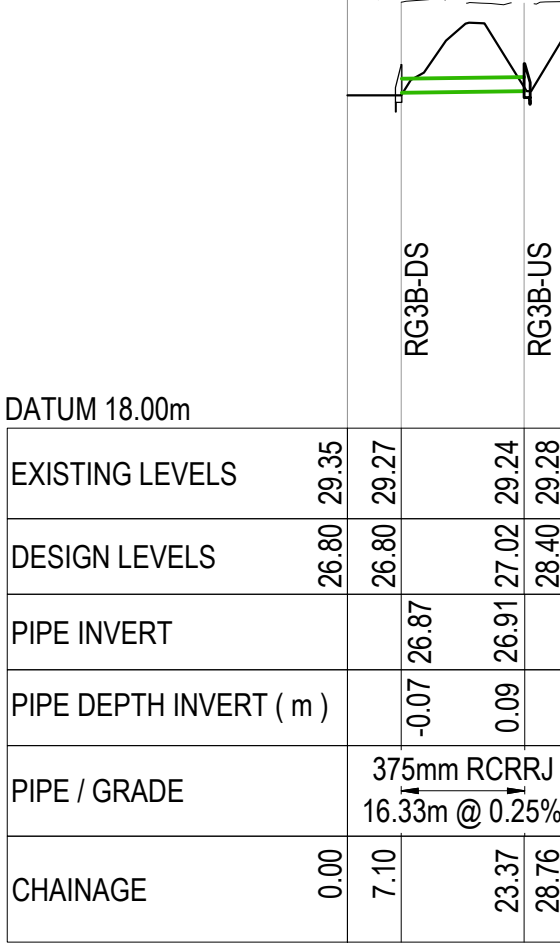
WL3 - LOWFLOW - C1
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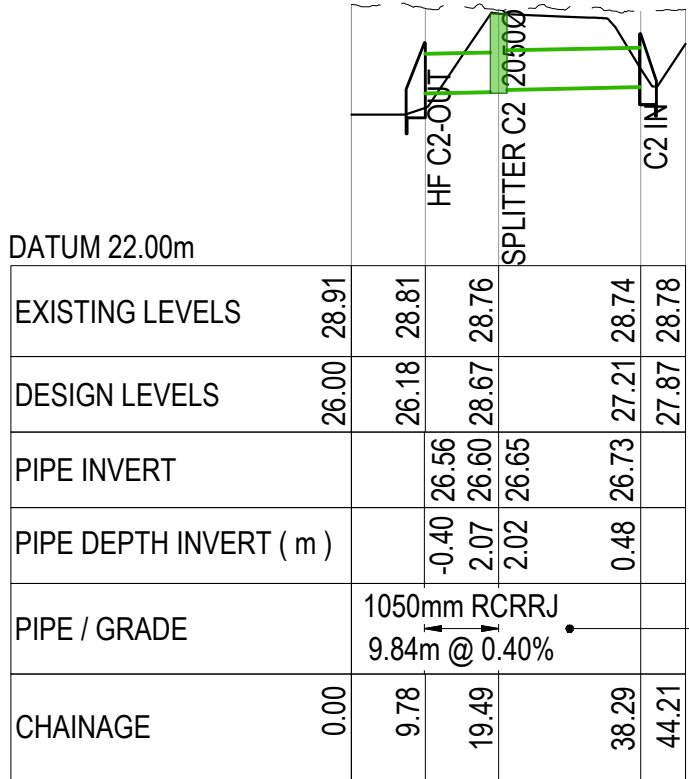
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SCALE: HORI 1:1000 VERT 1:200



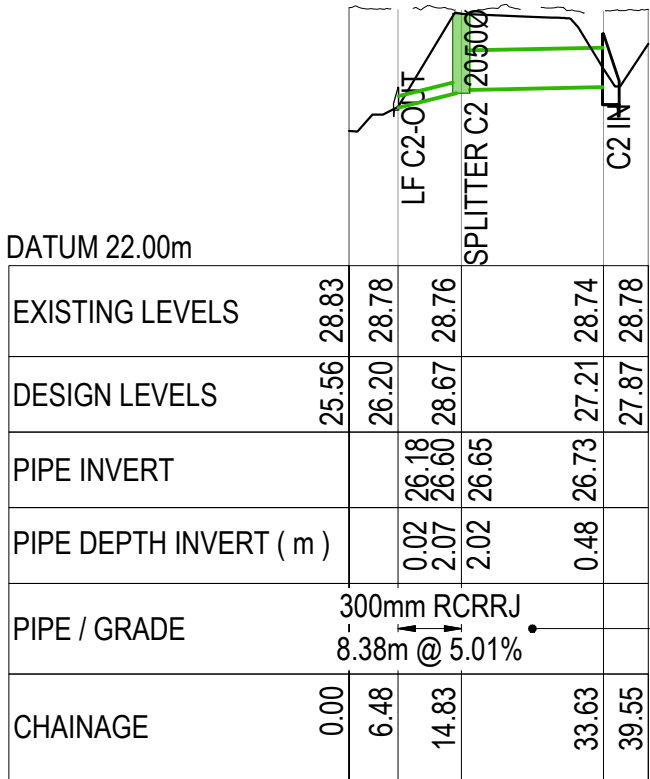
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SW LINE RG3B
SCALE: HORI 1:1000 VERT 1:200



WL3 - HIGHFLOW BYPASS - C2
SCALE: HORI 1:1000 VERT 1:200



WL3 - LOWFLOW - C2
SCALE: HORI 1:1000 VERT 1:200

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/IAWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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LEGEND

--- EX GROUND LEVEL

--- PR GROUND LEVEL

● CROSSING PIPE

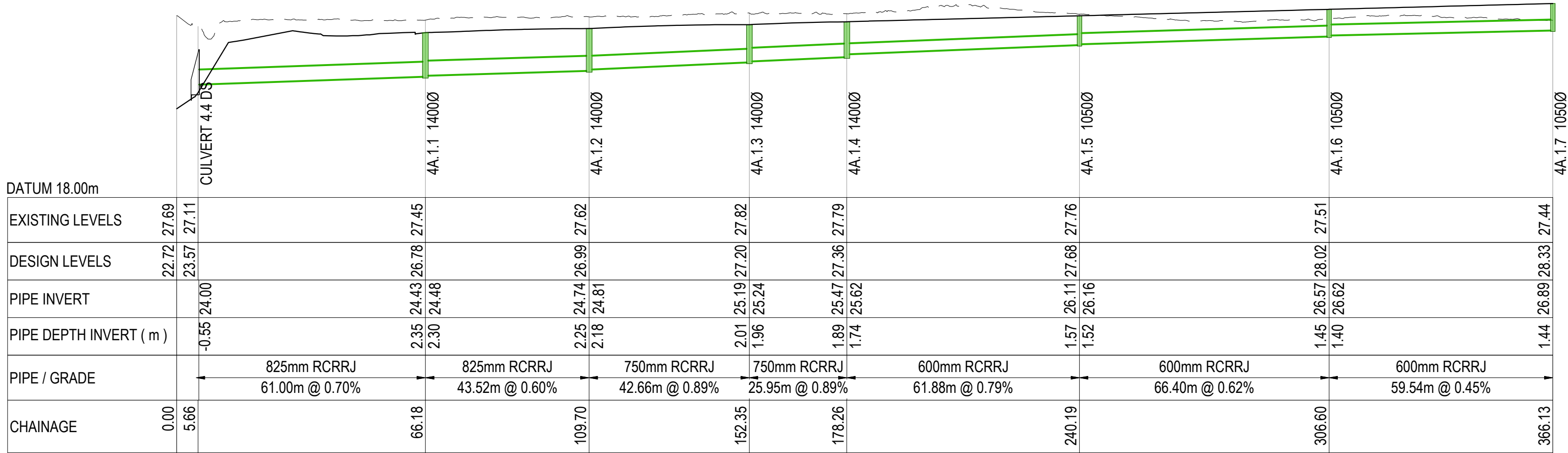
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Ref	Revisions	By	Date
	By	Date	
Survey	MAVEN	10/2025	
Design	KY	08/2026	
Drawn	SP	08/2026	
Checked	RW	08/2026	



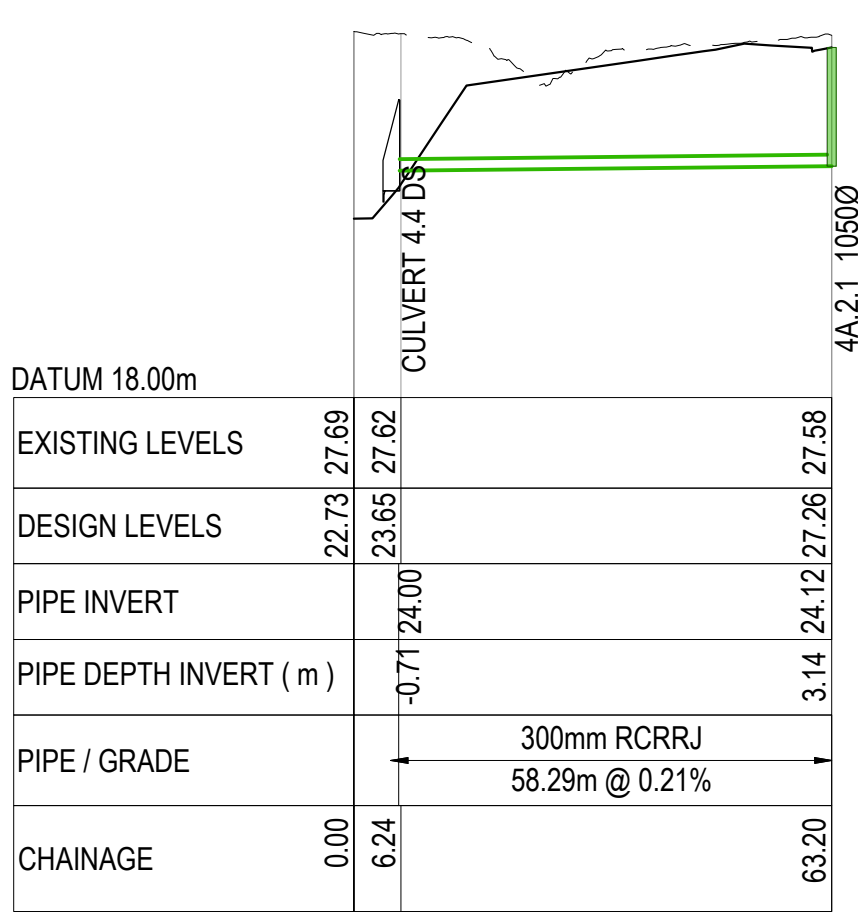
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PR STORMWATER LONGSETIONS CATCHMENT 3

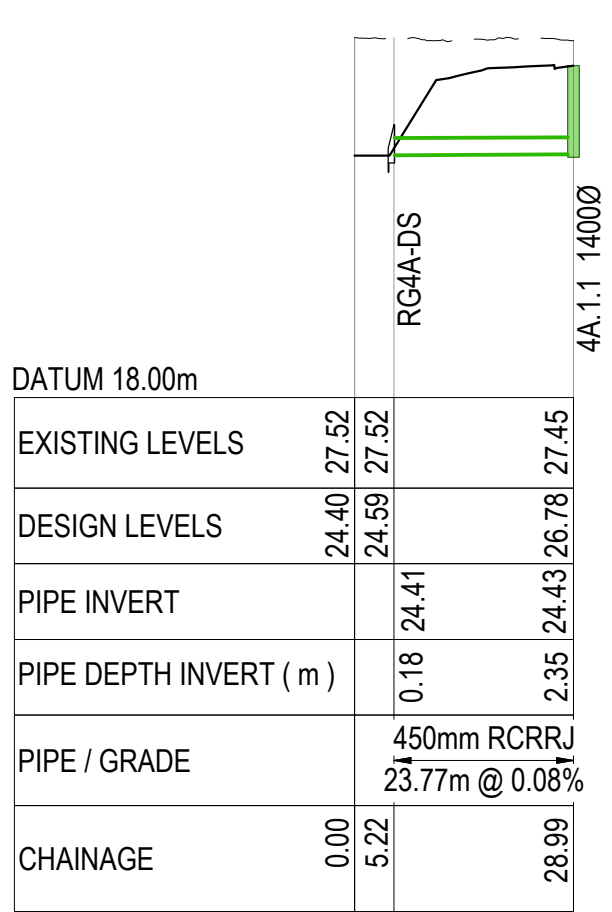
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Cad file 180010-C423-SW-LONGSETIONS
Drawing no. C423-2 Rev A



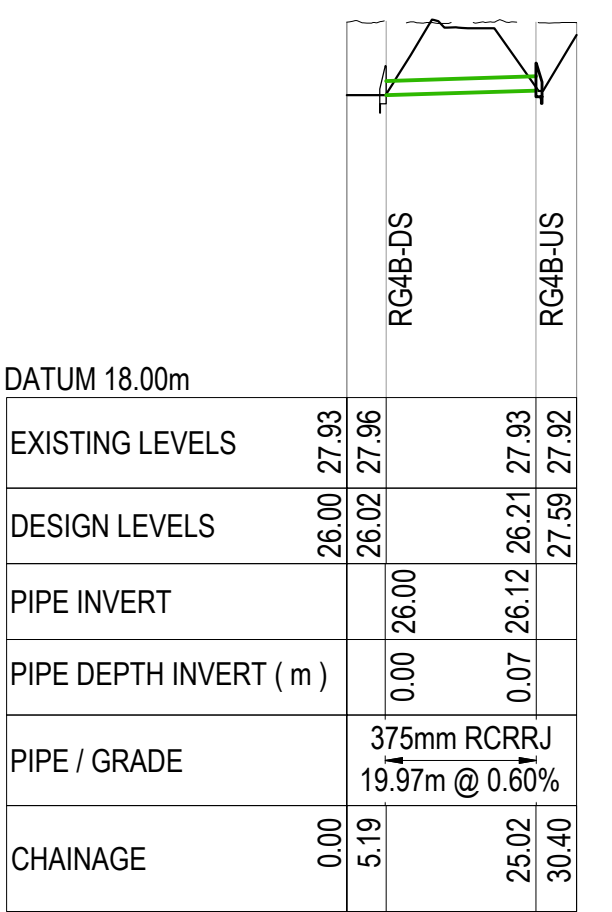
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SCALE: HORI 1:1000 VERT 1:200



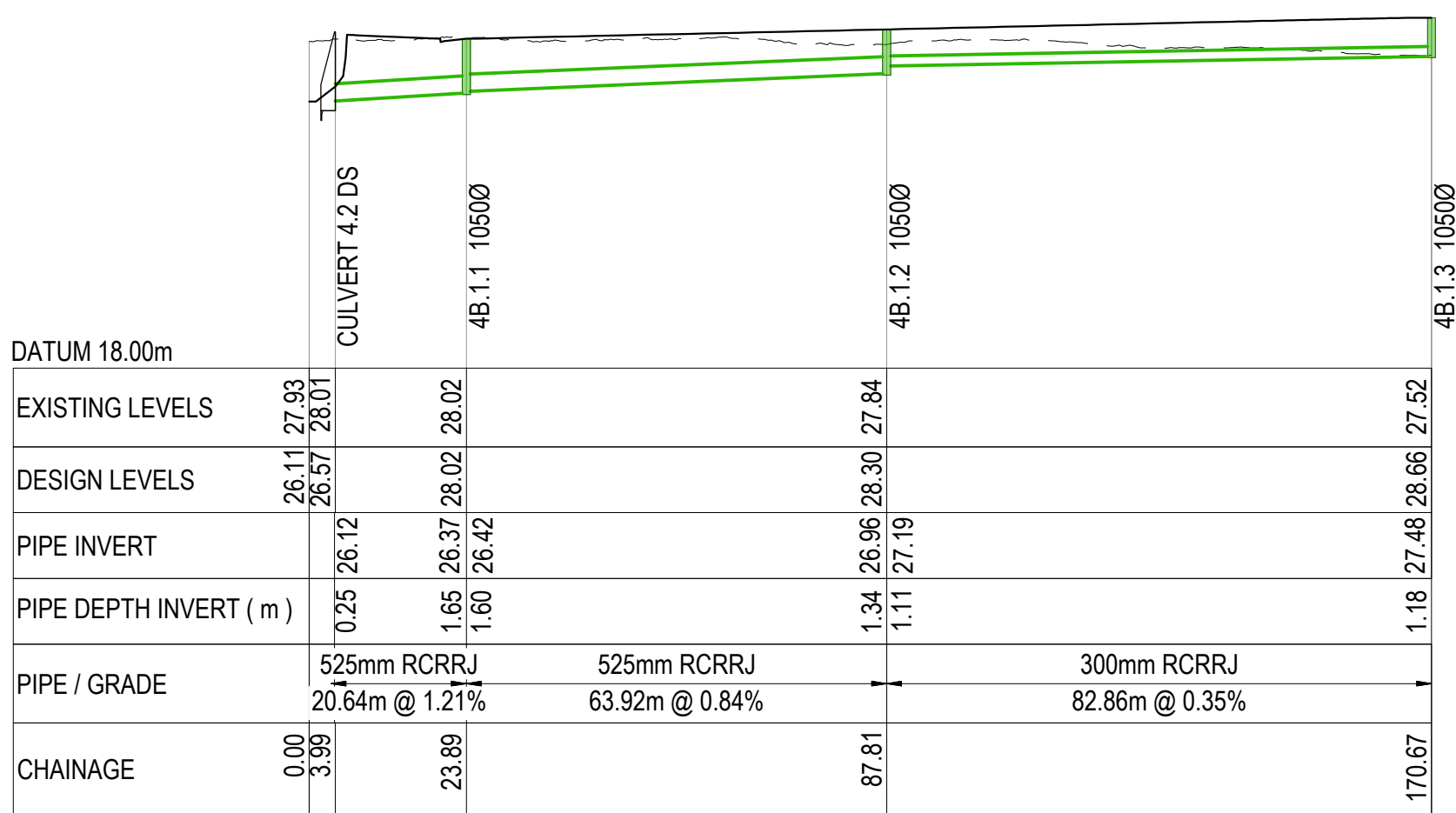
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SCALE: HORI 1:1000 VERT 1:200



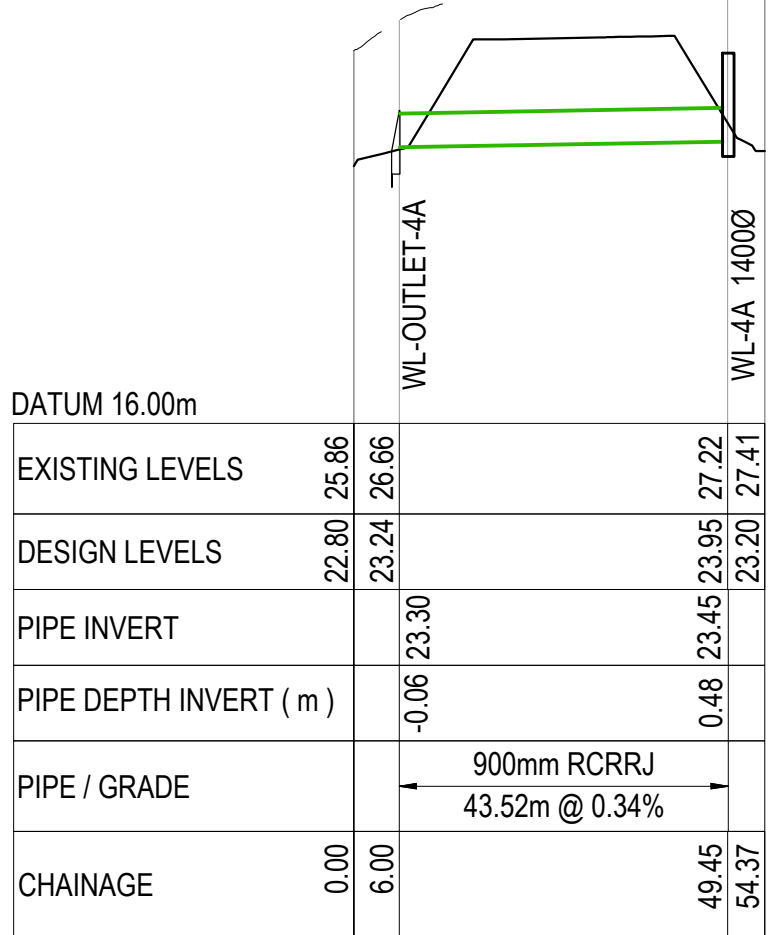
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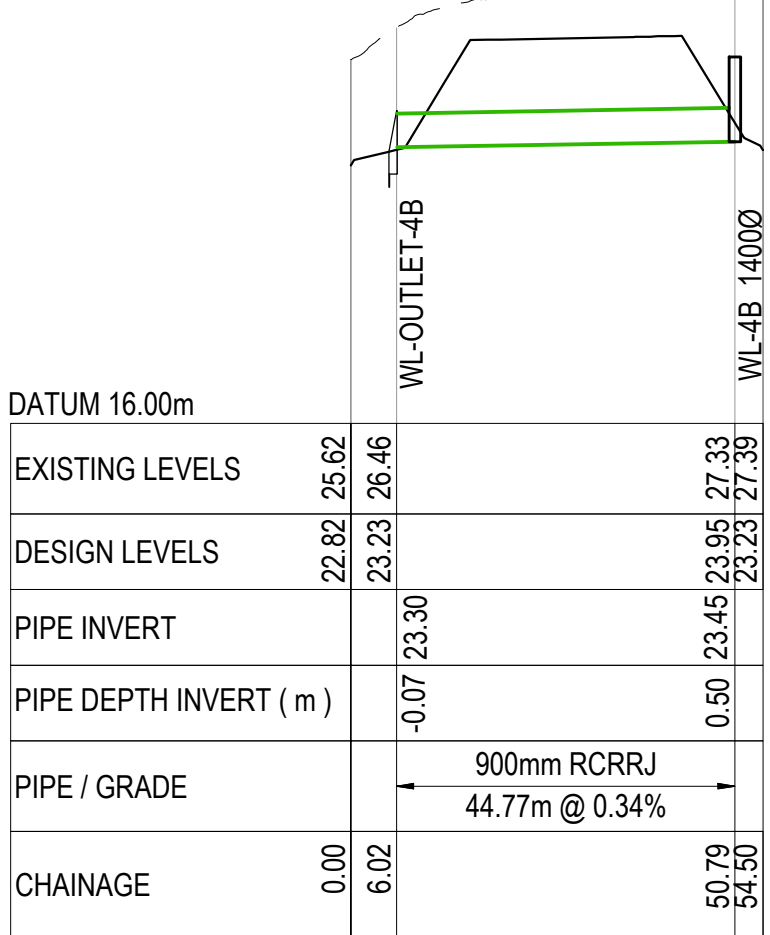
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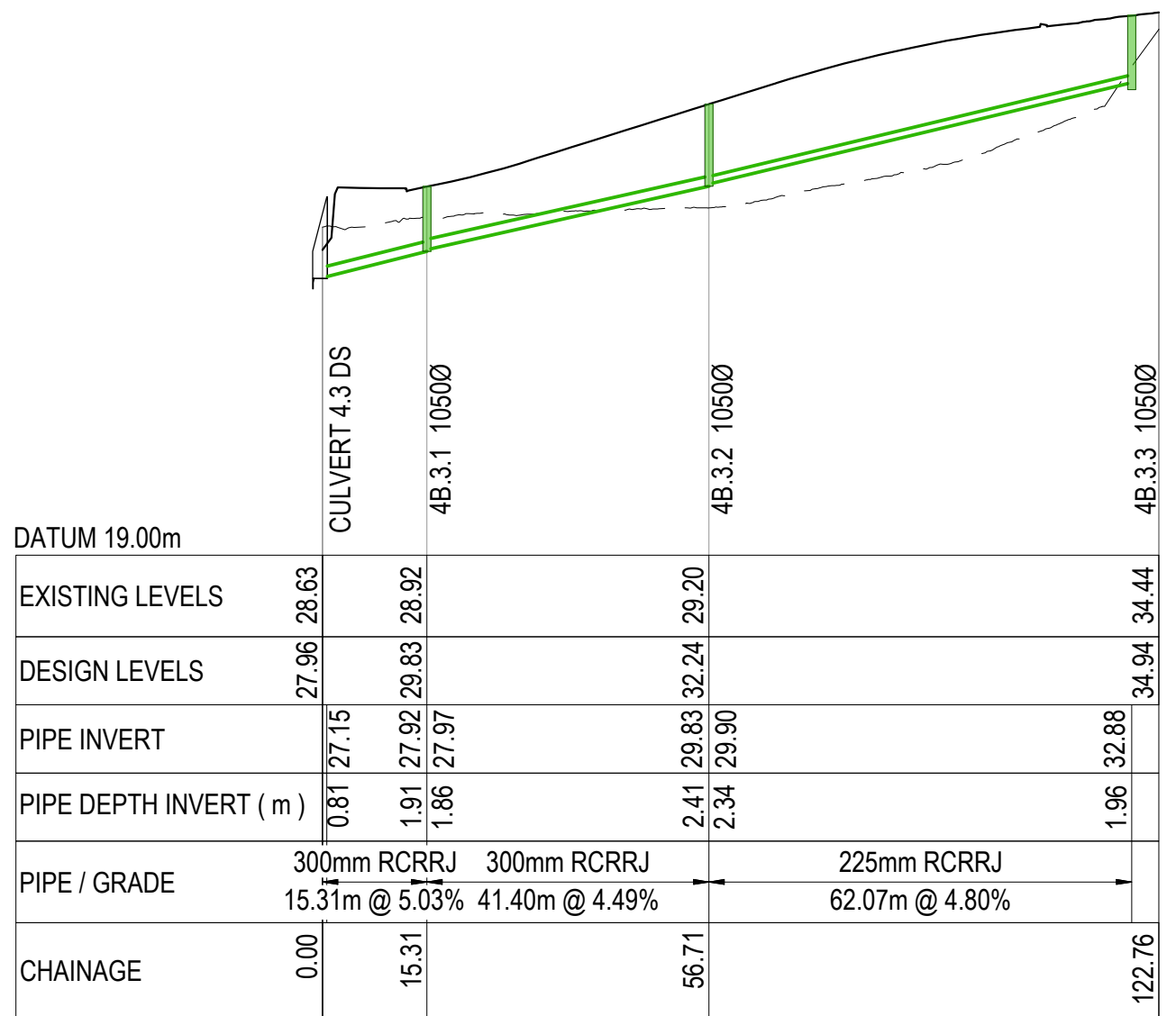
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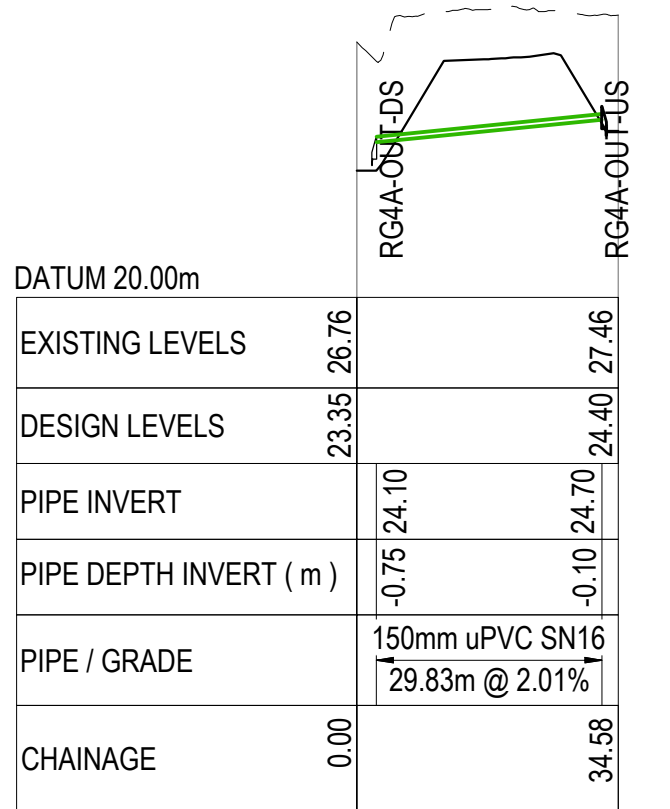
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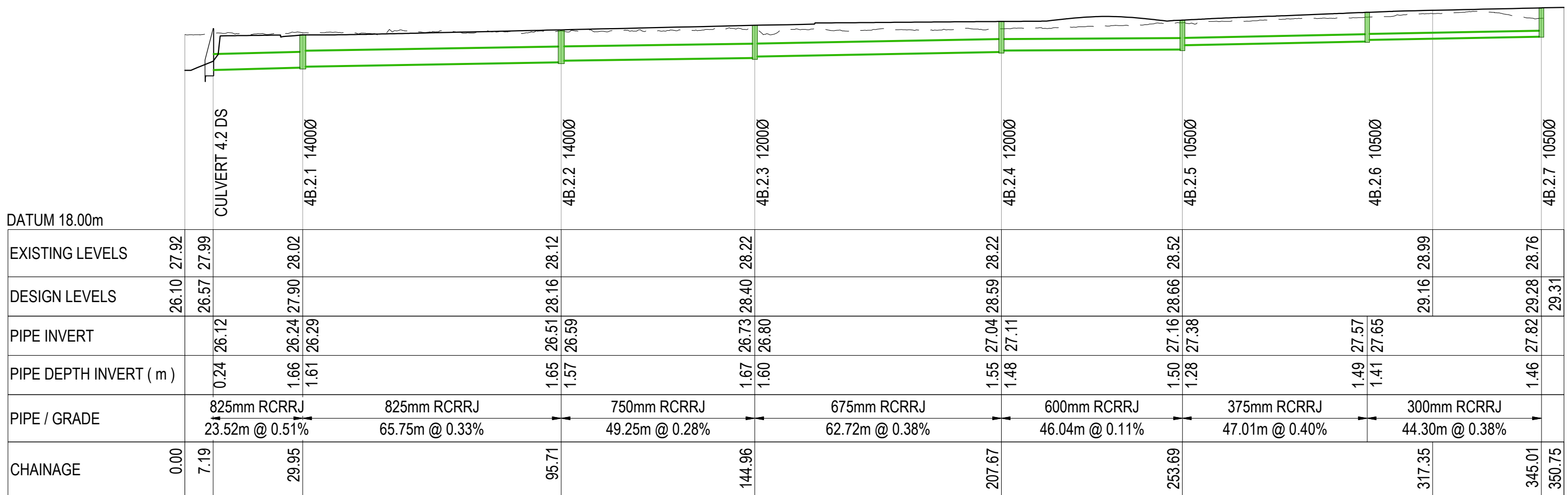
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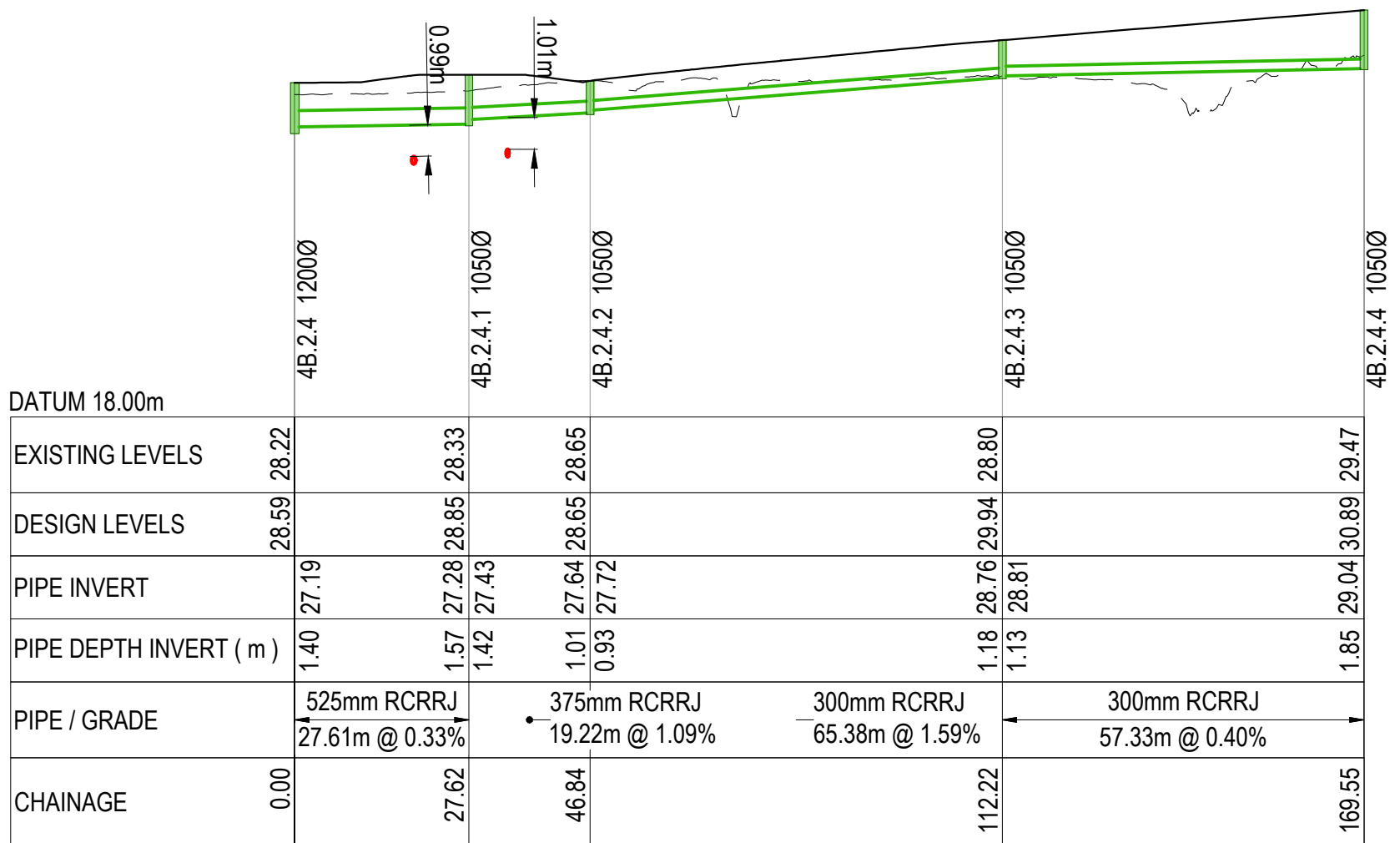
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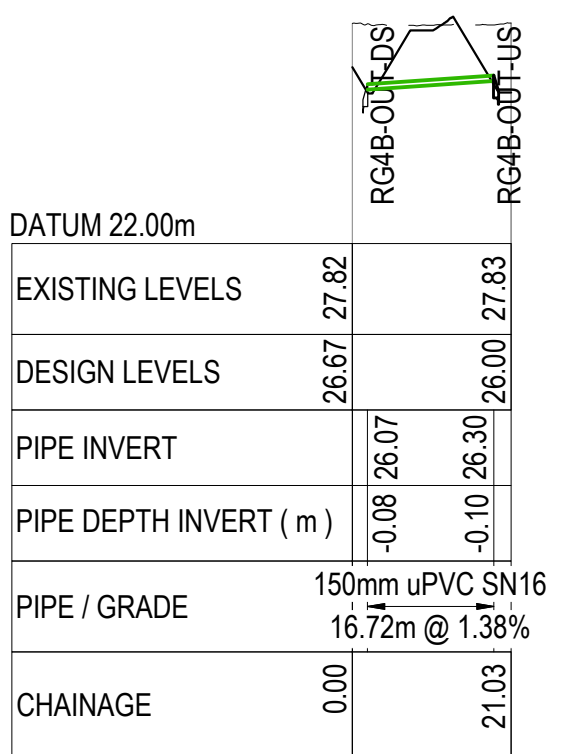
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SCALE: HORI 1:1000 VERT 1:200



SW LINE 4B.2.1-2.7
SCALE: HORI 1:1000 VERT 1:200



SW LINE 4B.2.4.1-2.4.3
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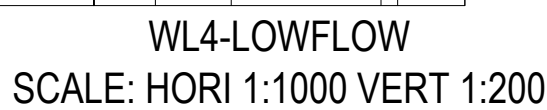
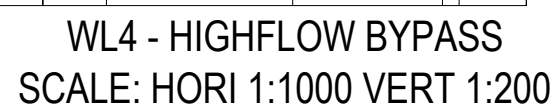


SW LINE RG4B-OUTLET
SCALE: HORI 1:1000 VERT 1:200

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/WAIKATO STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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- LEGEND
- EX GROUND LEVEL
 - PR GROUND LEVEL
 - CROSSING PIPE

Project	Resource Consent	SP	08/2026
Ref	Revisions	By	Date
Survey	MAVEN	10/2025	
Design	KY	08/2026	
Drawn	SP	08/2026	
Checked	RW	08/2026	
Project	Maven Associates		
Project	PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP		
Title	PR STORMWATER LONGSETIONS CATCHMENT 4		
Project no.	180010		
Scale	1:1000 @ A1		
Cad file	180010-C424-SW-LONG-000		
Drawing no.	C424-1	Rev	A



NOTES

ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/IAIWA STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.

COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000.

LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.

LEGEND

--- EX GROUND LEVEL

— PR GROUND LEVEL

● ● CROSSING PIPE

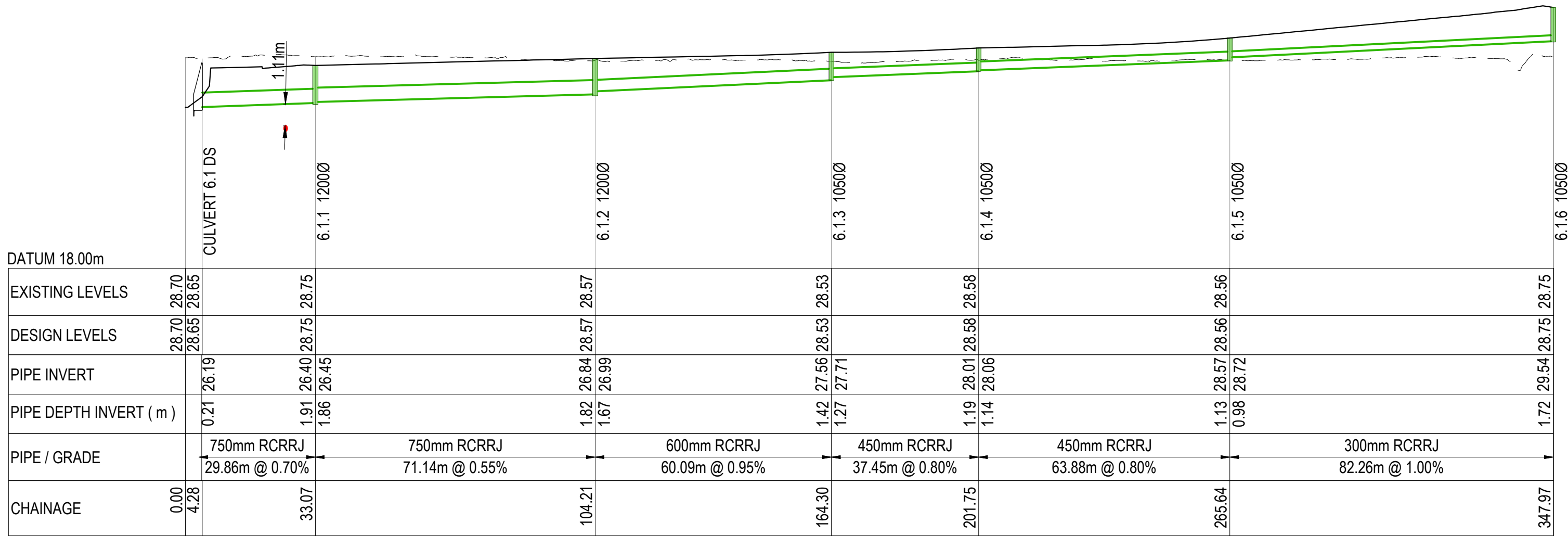
	RESOURCE CONSENT	SP	08/2026
f Revisions		By	Date
	By		Date
Survey	MAVEN		10/2025
Design	KY		08/2026
Drawn	SP		08/2026
Checked	RW		08/2026



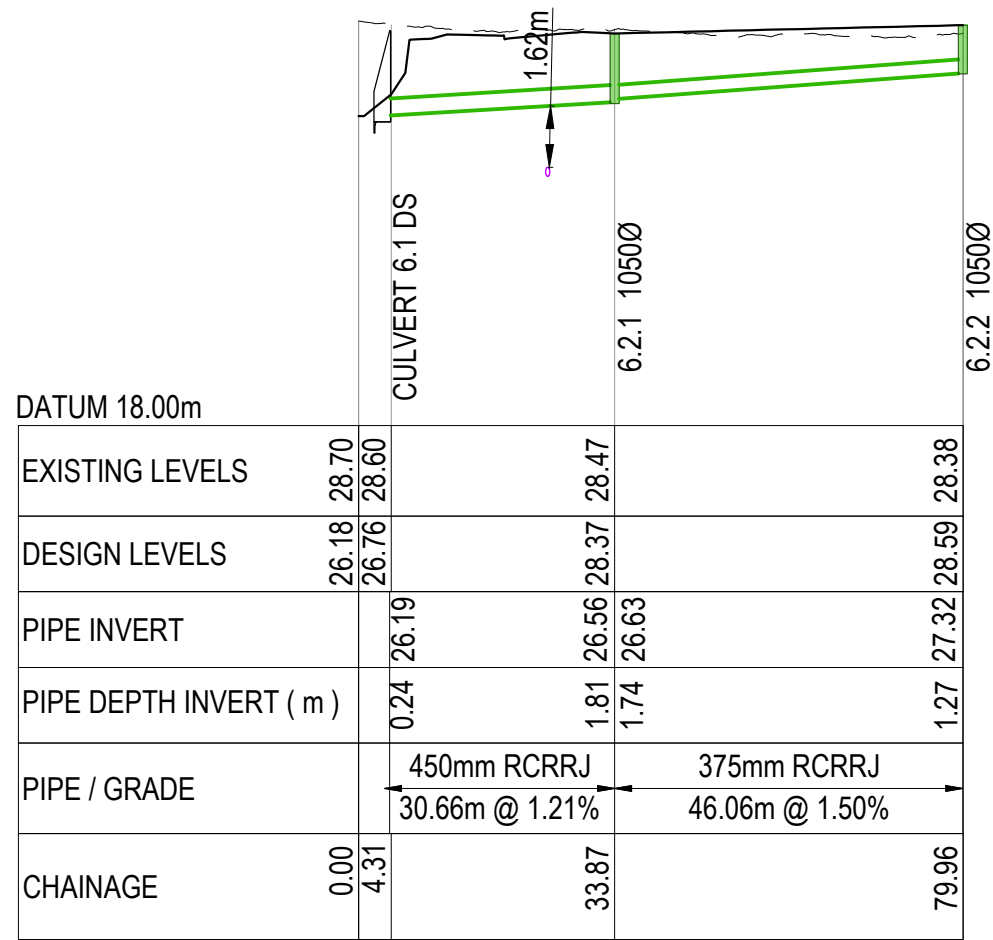
**PROPOSED INDUSTRIAL
DEVELOPMENT AT
THE KOWHAI EAST
OF THE KOWHAI EAST
LIMITED PARTNERSHIP**

le
R STORMWATER
ONGSETIONS
ATCHMENT 4

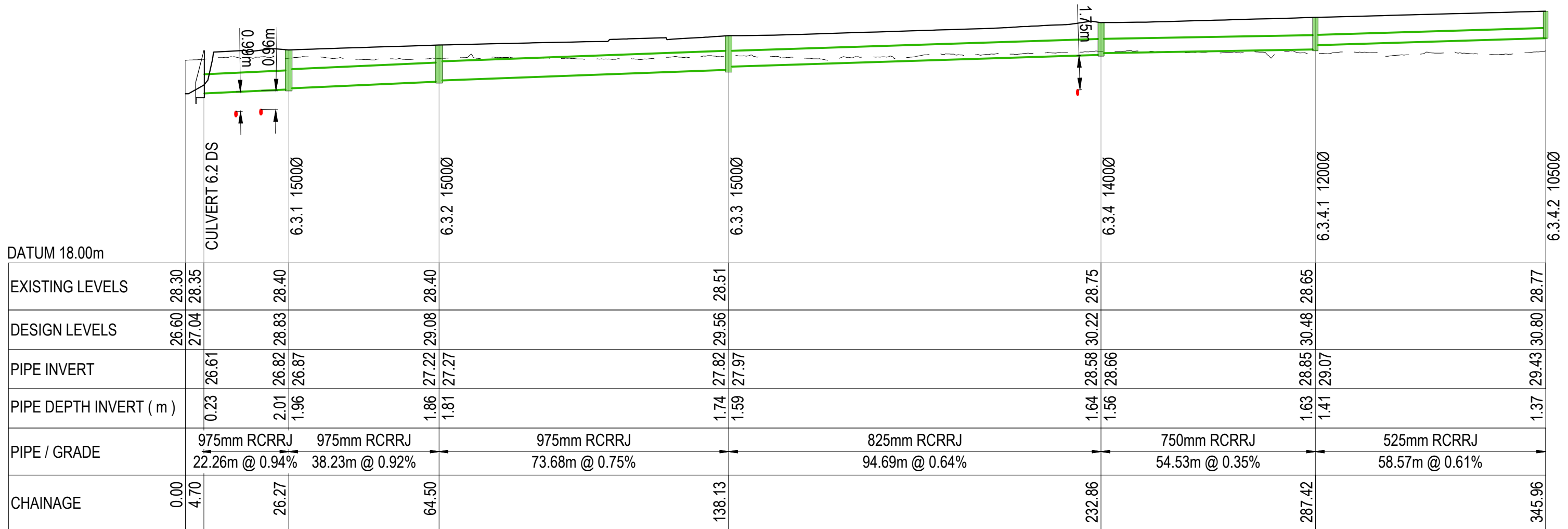
Project no.	180010		
Scale	1:1000 @ A1		
Plot file	180010-C420 SW LONG.DWG		
Drawing no.	C424-2	Rev	A



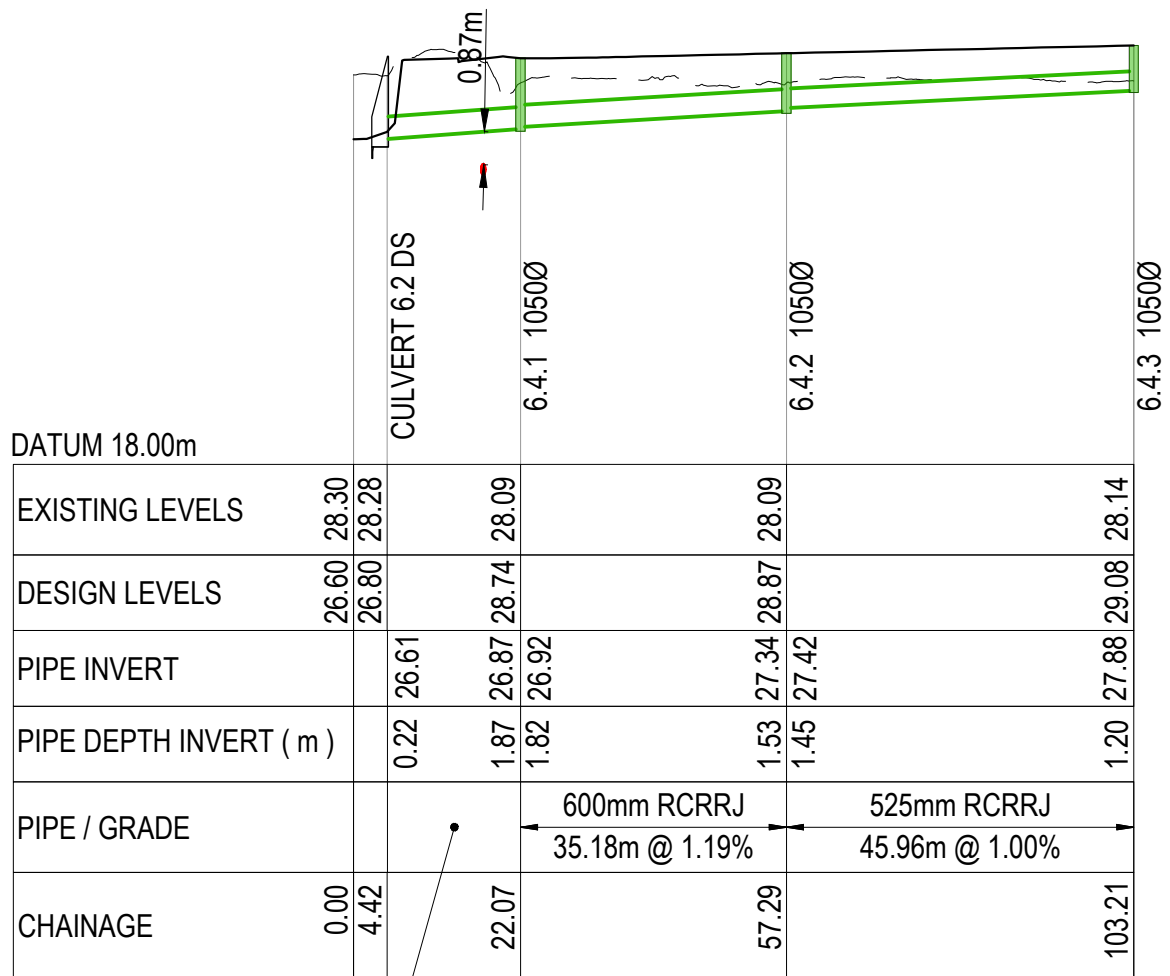
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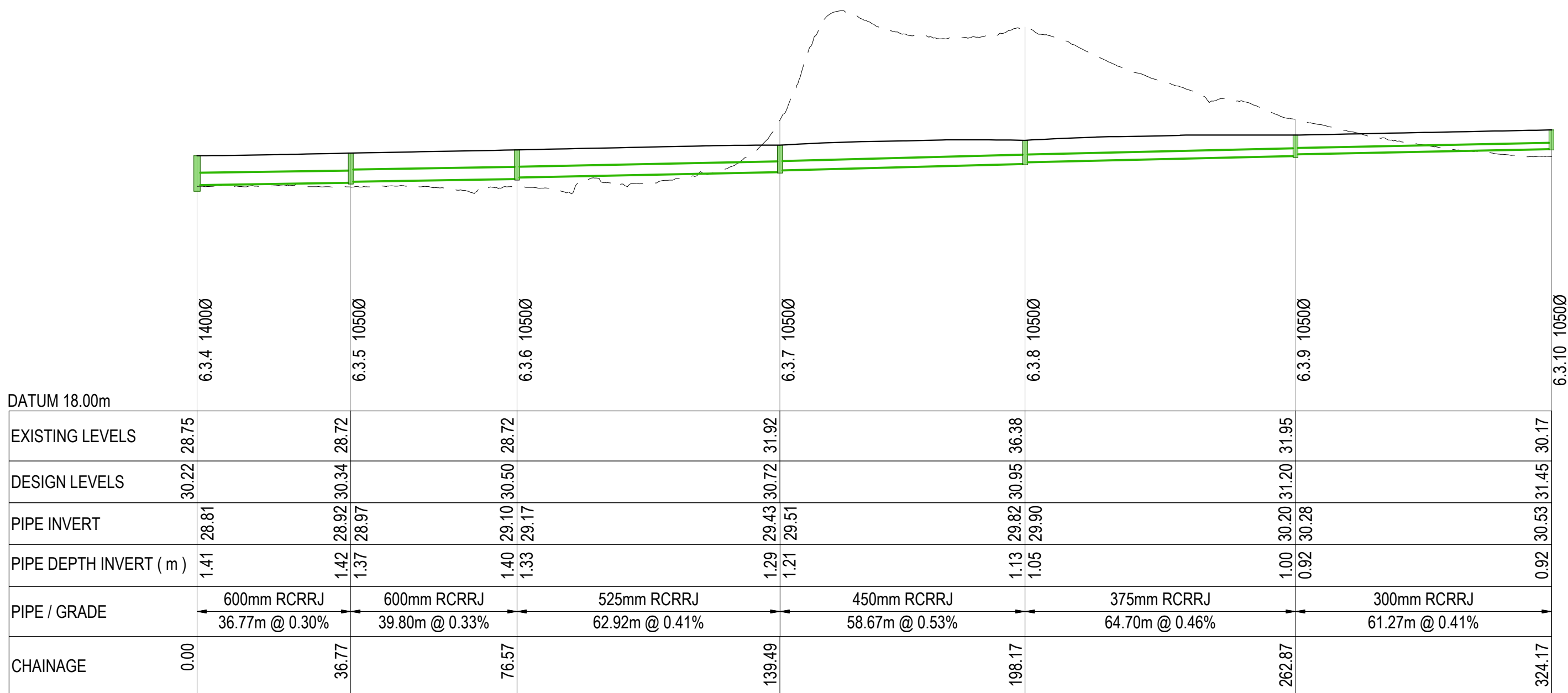
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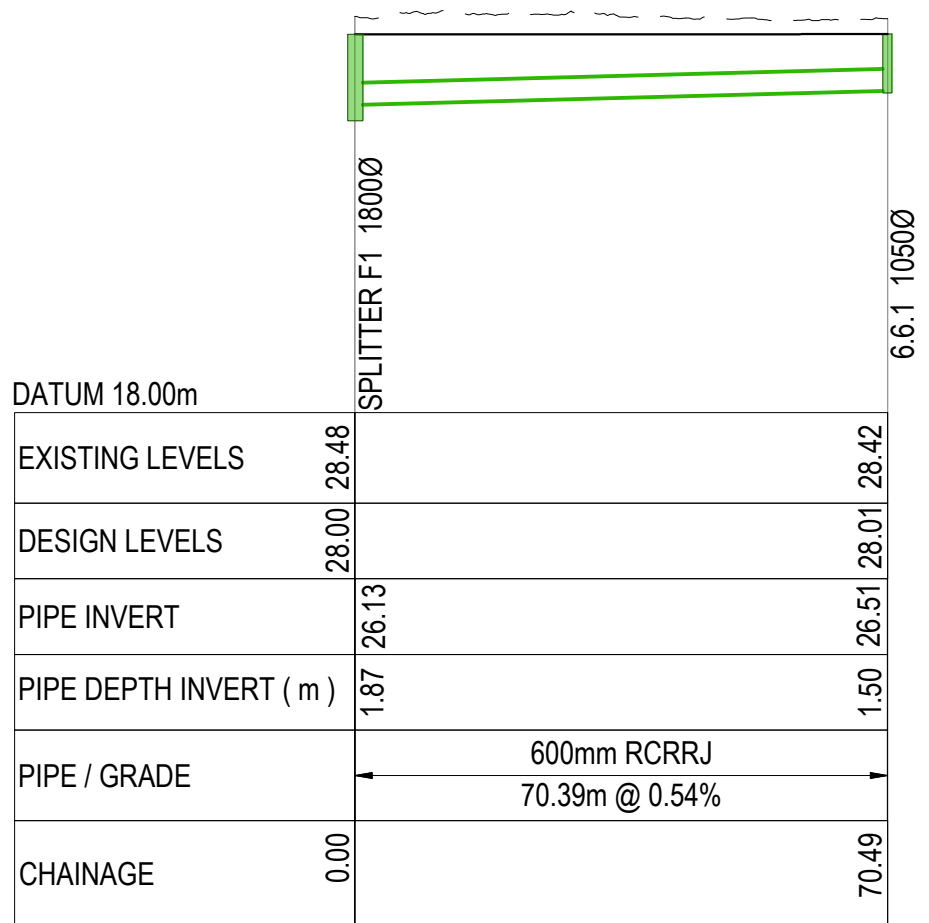
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SW LINE 6.2DS-6.4.3
SCALE: HORI 1:1000 VERT 1:200



SW LINE 6.3.4-6.3.11
SCALE: HORI 1:1000 VERT 1:200



SW LINE 6.6-6.6.1
SCALE: HORI 1:1000 VERT 1:200

- NOTES
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- CROSSING PIPE

Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026

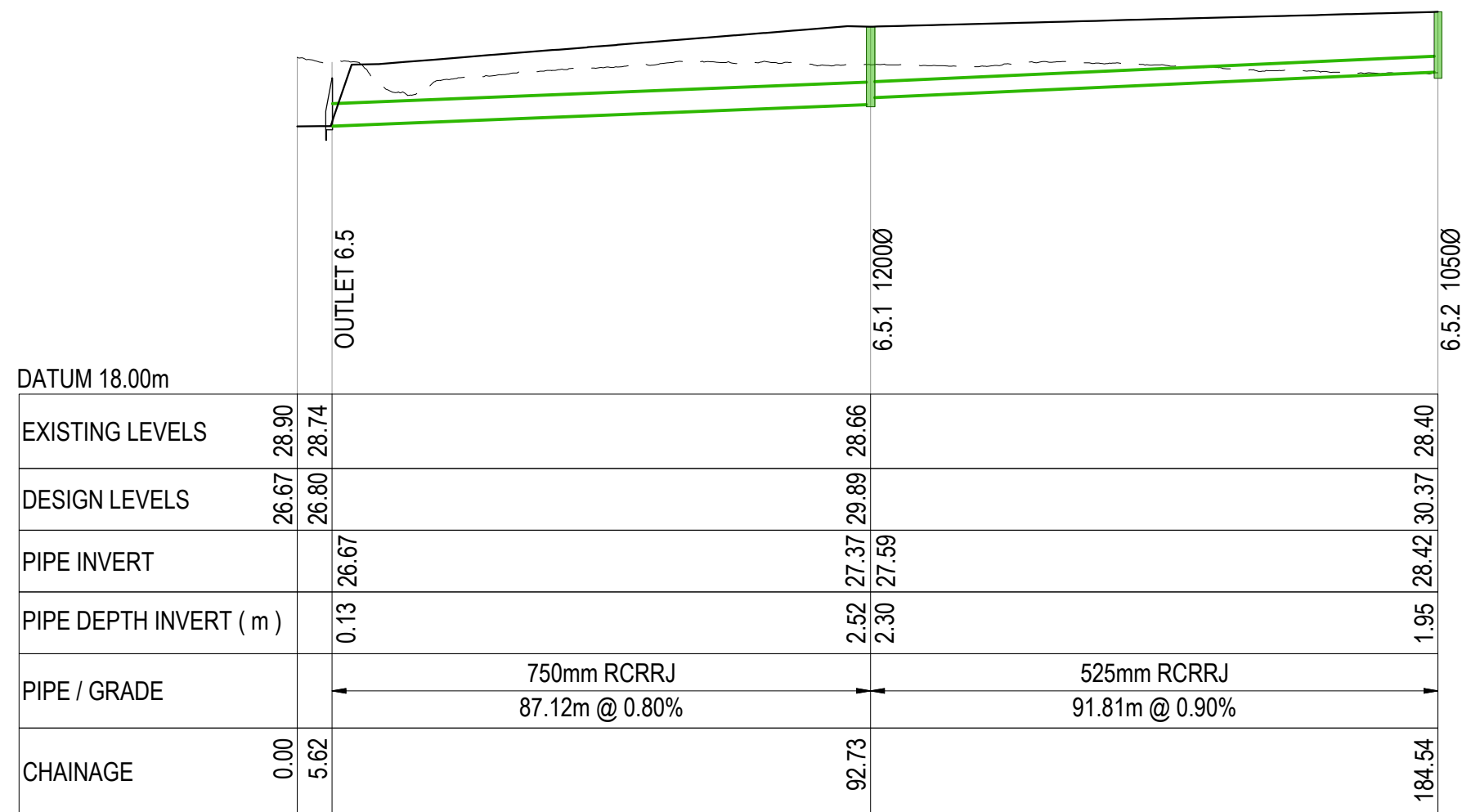
Survey	MAVEN	10/2025
Design	KY	08/2026
Drawn	SP	08/2026
Checked	RW	08/2026

Maven Associates
03 571 0502
maven@ma.co.nz
www.maven.co.nz
5 Queens Road, Espoon
Auckland 1022

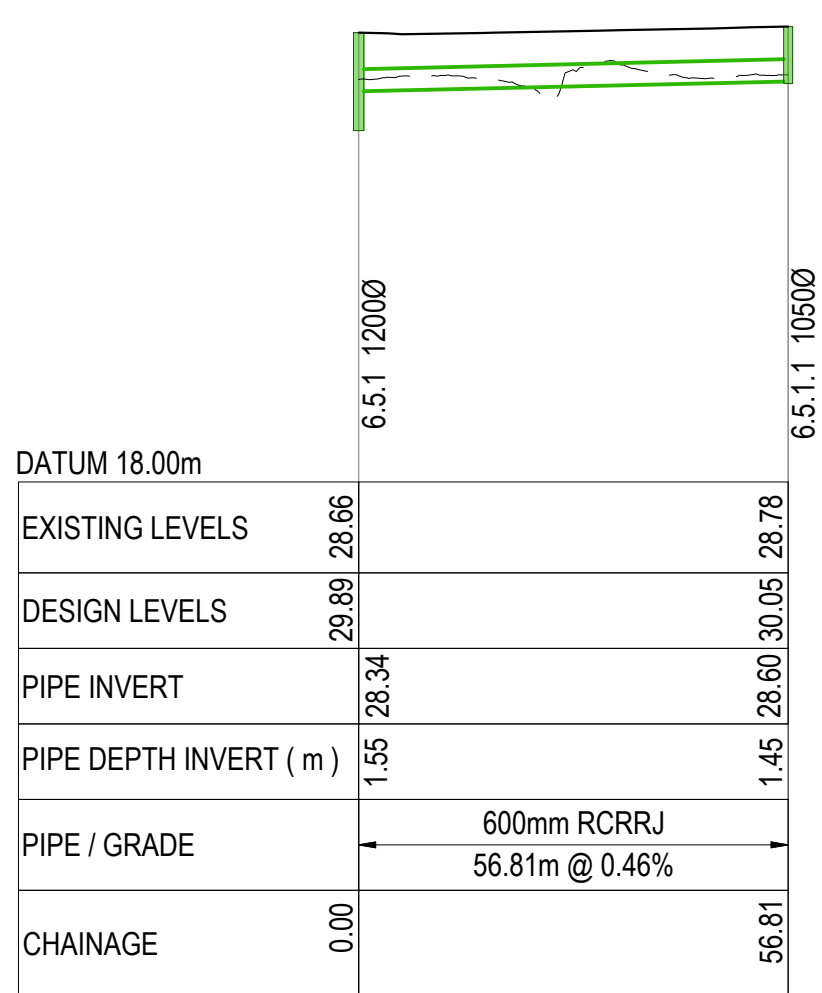
Project
**PROPOSED INDUSTRIAL
DEVELOPMENT AT
TE KOWHAI EAST
FOR TE KOWHAI EAST
LIMITED PARTNERSHIP**

Title
**PR STORMWATER
LONGSETIONS
CATCHMENT 6**

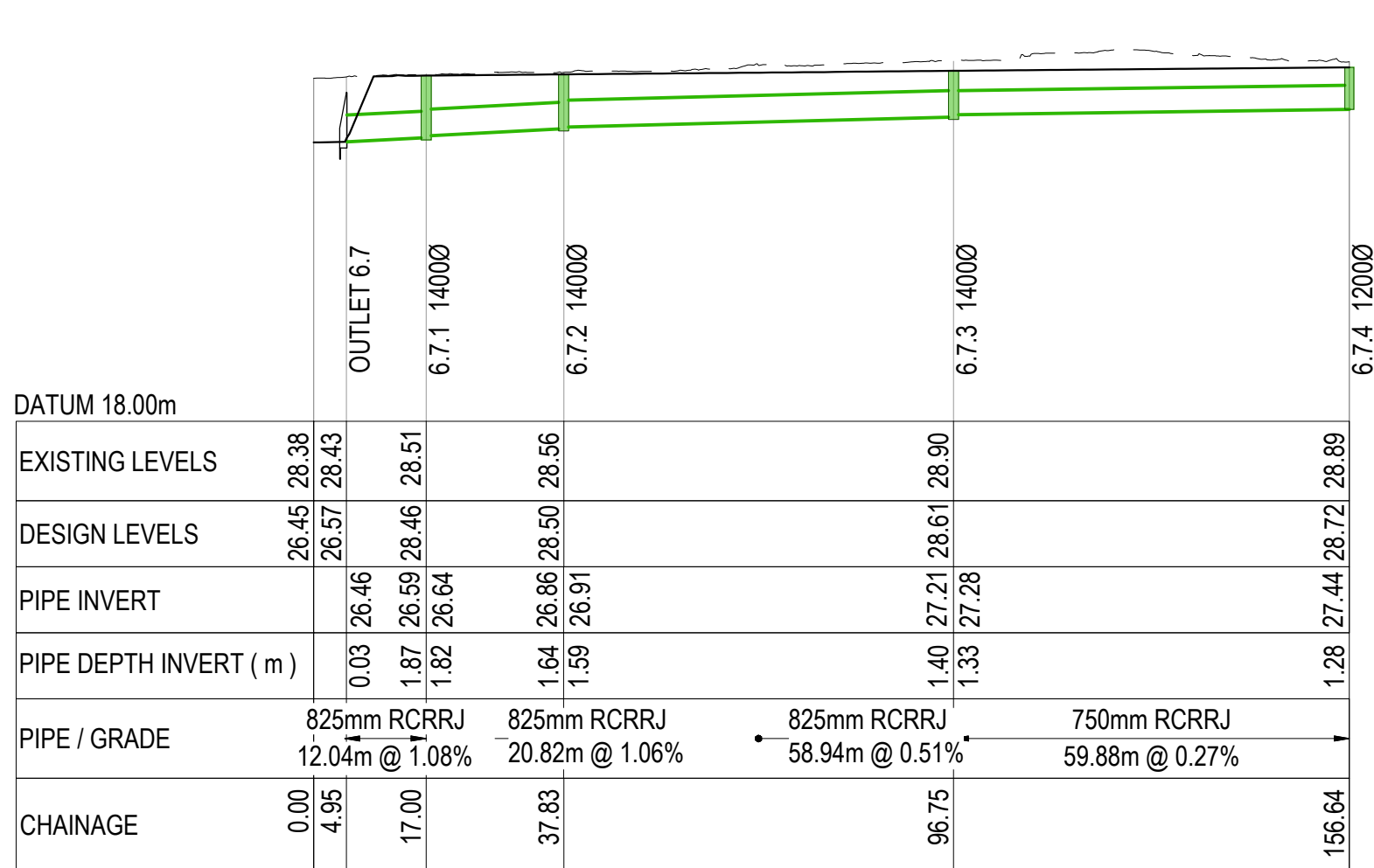
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Drawing no. C426-1 Rev A



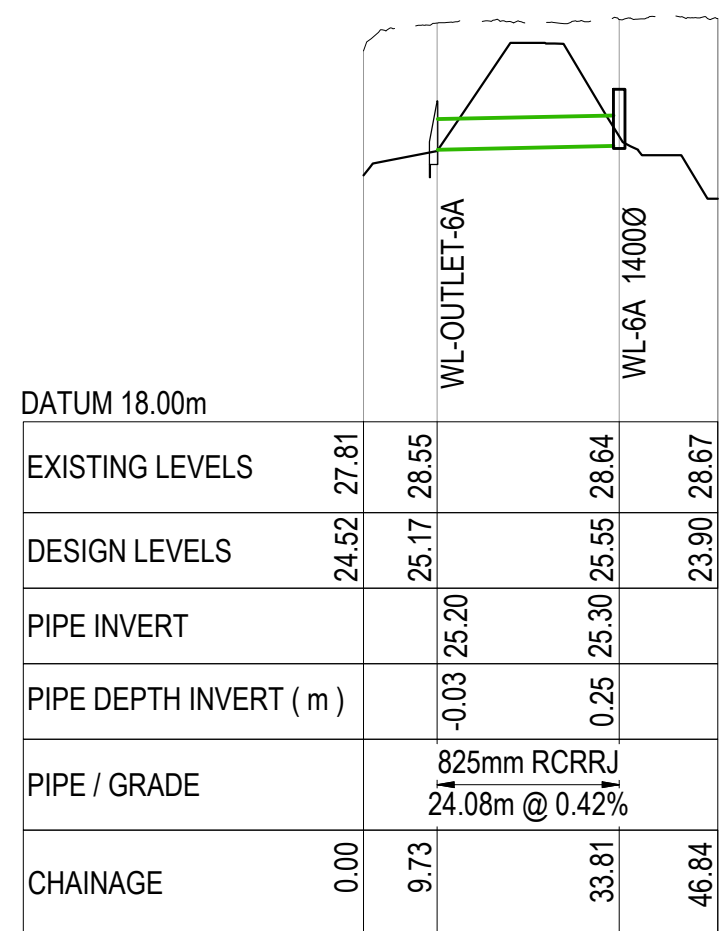
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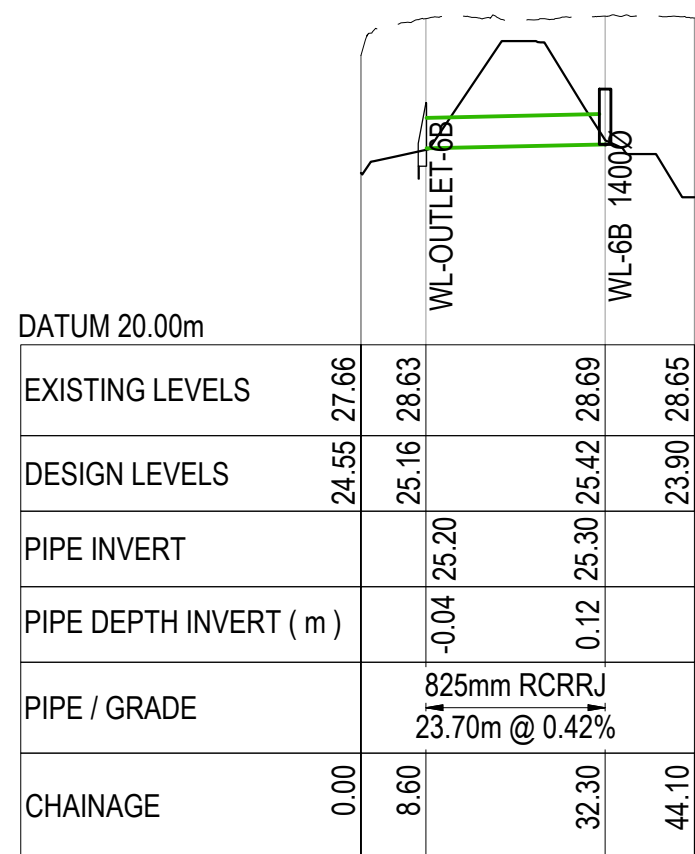
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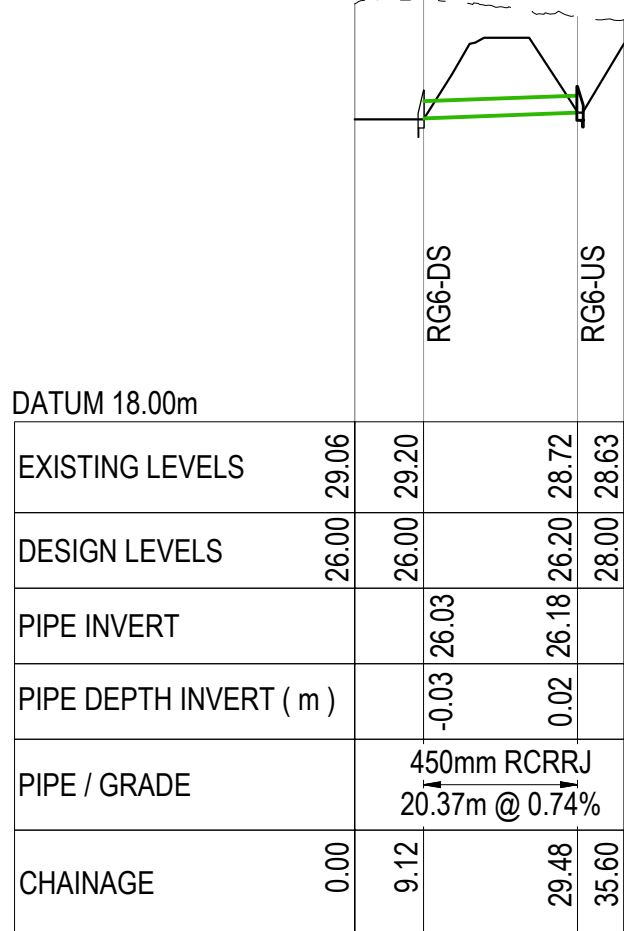
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SCALE: HORI 1:1000 VERT 1:200



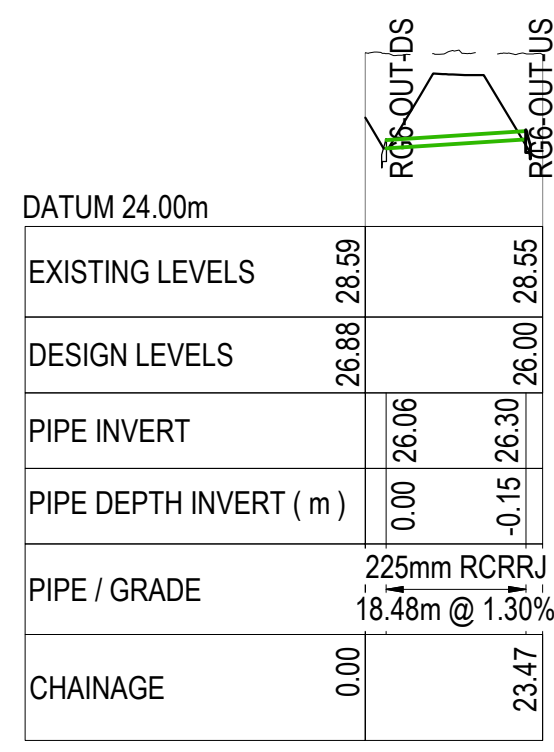
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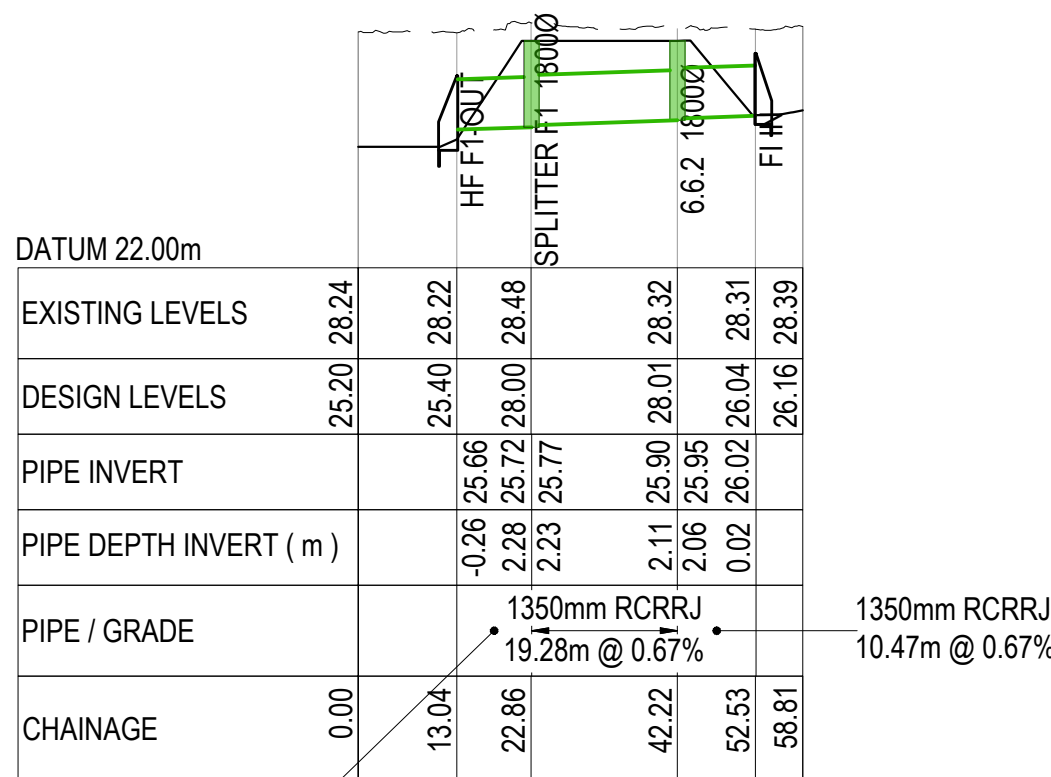
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SCALE: HORI 1:1000 VERT 1:200



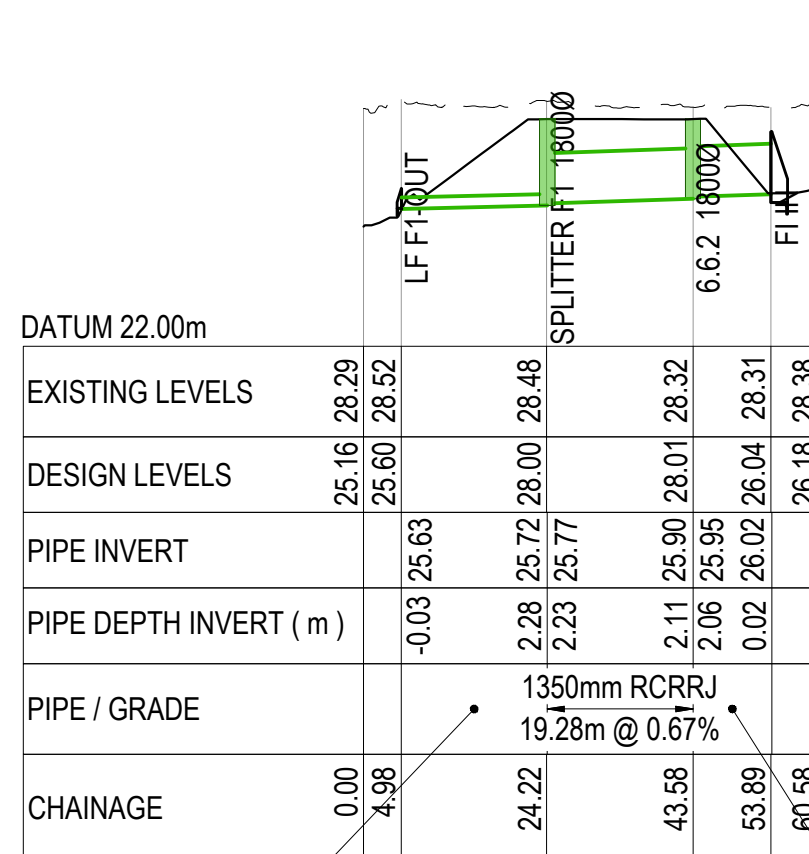
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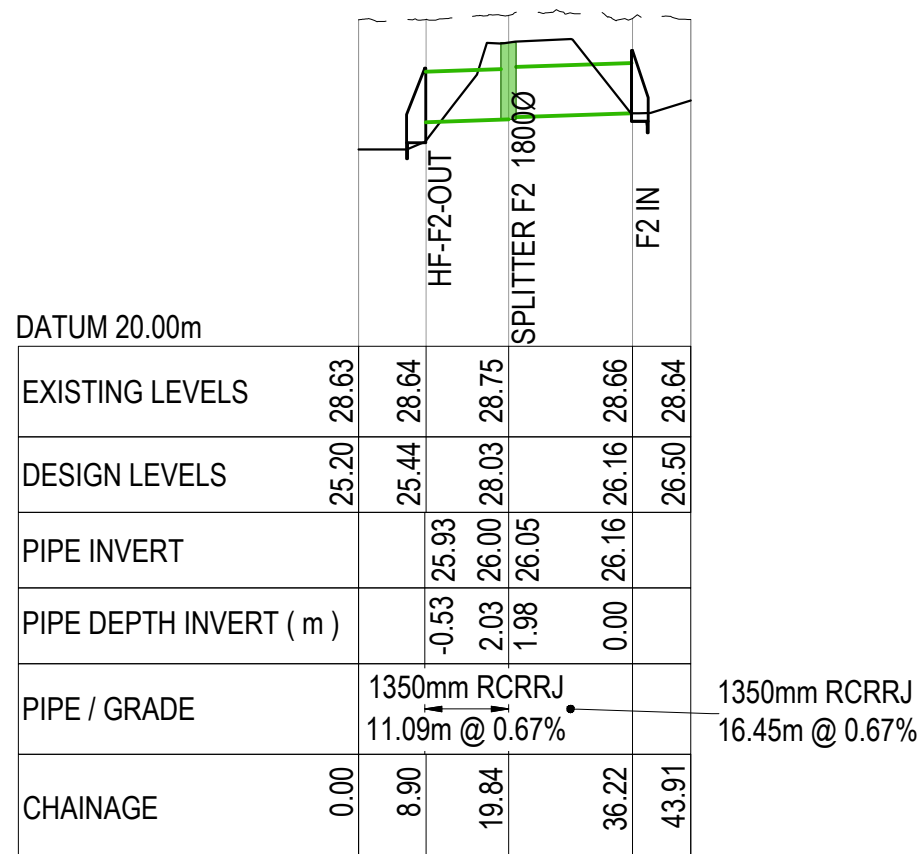
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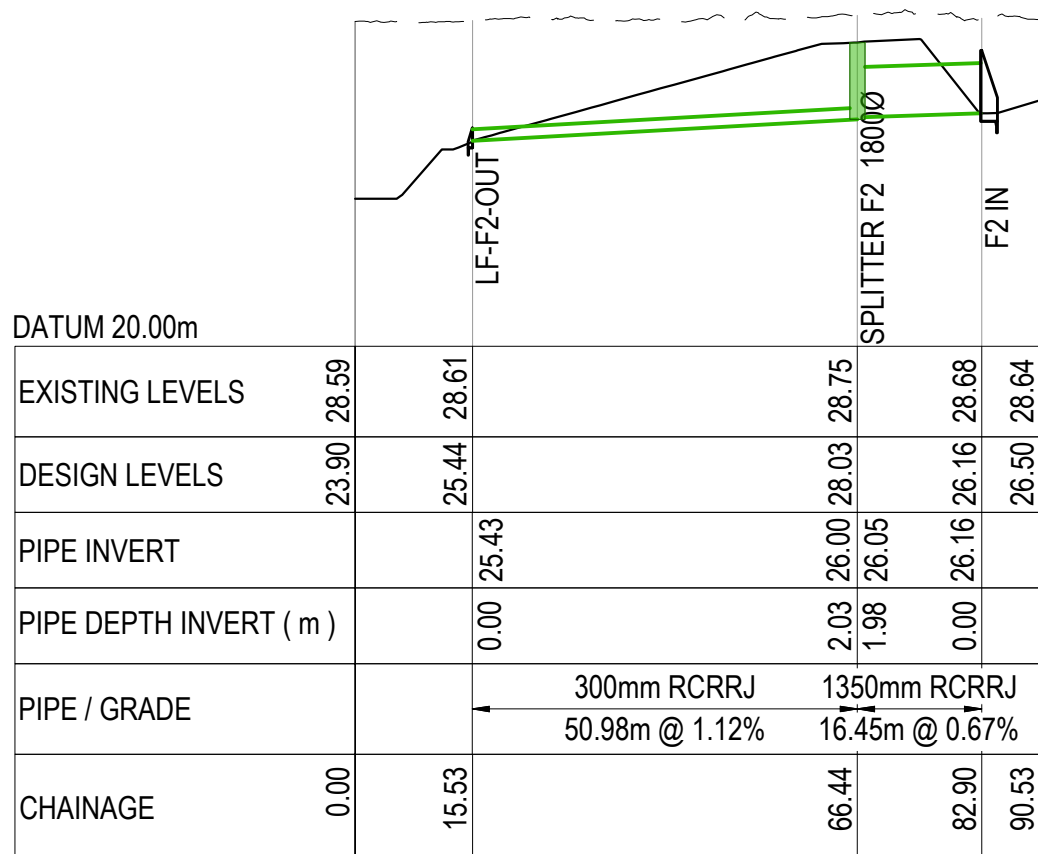
WL6 - HIGHFLOW BYPASS - F1
SCALE: HORI 1:1000 VERT 1:200



RG6 - LOWFLOW - F1
SCALE: HORI 1:1000 VERT 1:200



RG6 - HIGHFLOW BYPASS - F2
SCALE: HORI 1:1000 VERT 1:200



RG6 - LOWFLOW - F2
SCALE: HORI 1:1000 VERT 1:200

- NOTES
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LEGEND

--- EX GROUND LEVEL
--- PR GROUND LEVEL
● CROSSING PIPE

Ref	Revisions	By	Date
A	RESOURCE CONSENT	SP	08/2026
Survey	MAVEN	10/2025	
Design	KY	08/2026	
Drawn	SP	08/2026	
Checked	RW	08/2026	



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

Title
PR STORMWATER LONGSETIONS CATCHMENT 6

Project no.	180010
Scale	1:1000 @ A1
Cad file	180010-C426-SP-LONG-0826
Drawing no.	C426-2
Rev	A



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/AIAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
 - PR RAINGARDEN
 - PR BERMLANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATION TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OLFP
 - PR RD OLFP DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

Ref	Revisions	By	Date
A	RESOURCE CONSENT	AF	08/2026

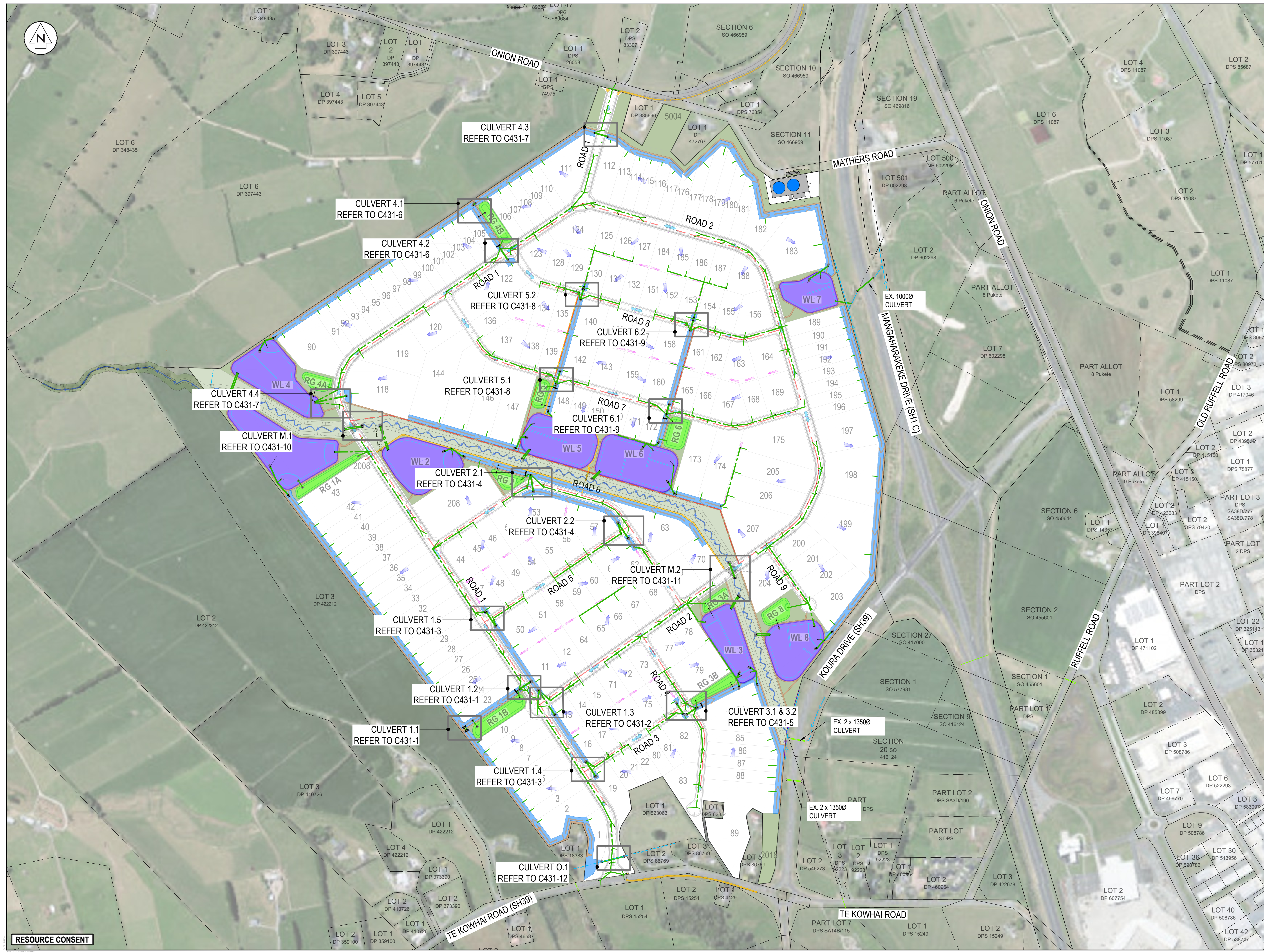
Survey	MAVEN	Date	10/2025
Design	AF	Date	08/2026
Drawn	AF	Date	08/2026
Checked	KY	Date	08/2026

M Maven Associates
05 571 0500
info@maven.co.nz
www.maven.co.nz
3 Chalmers Road, Epsom
Auckland 1020

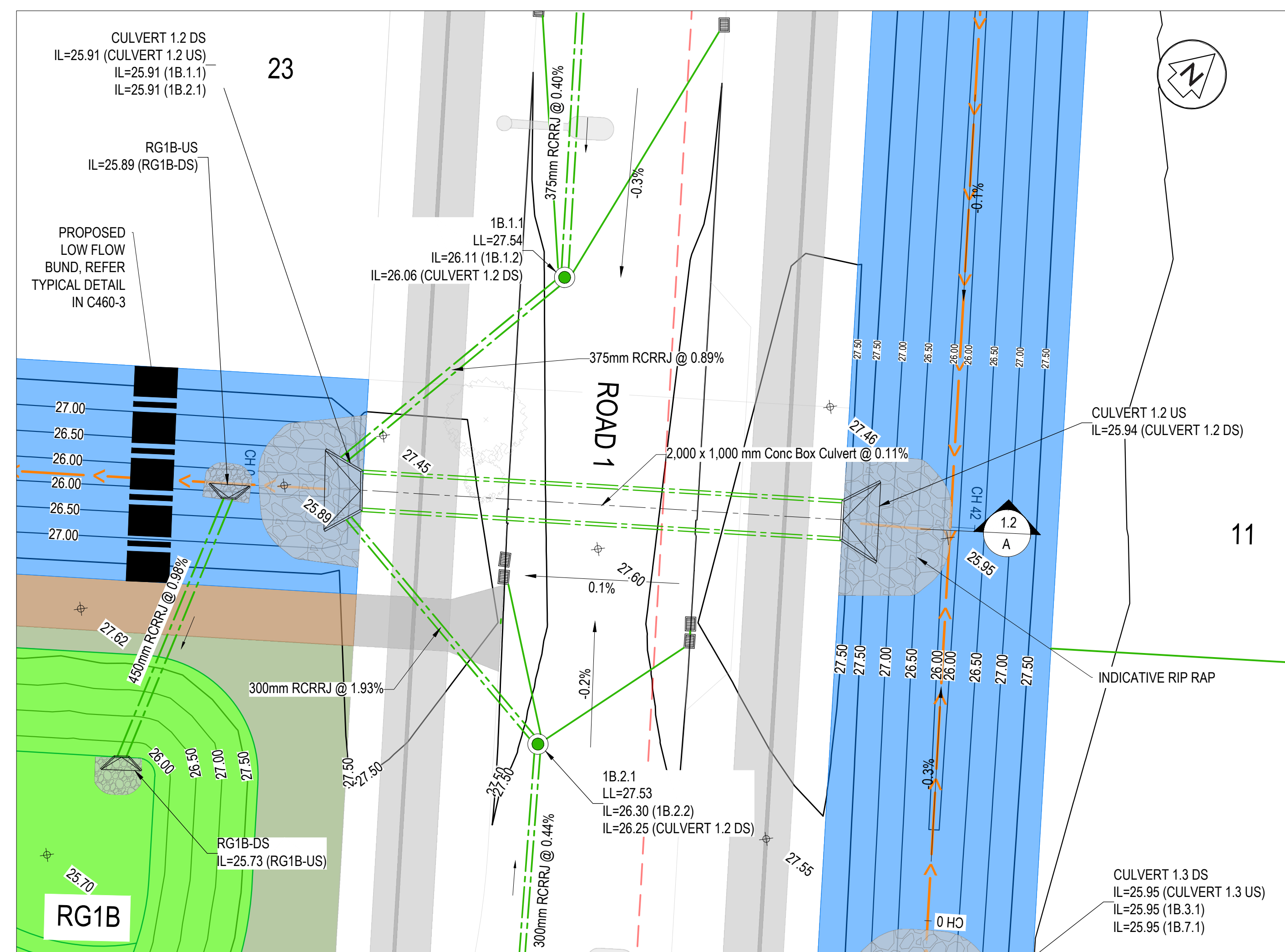
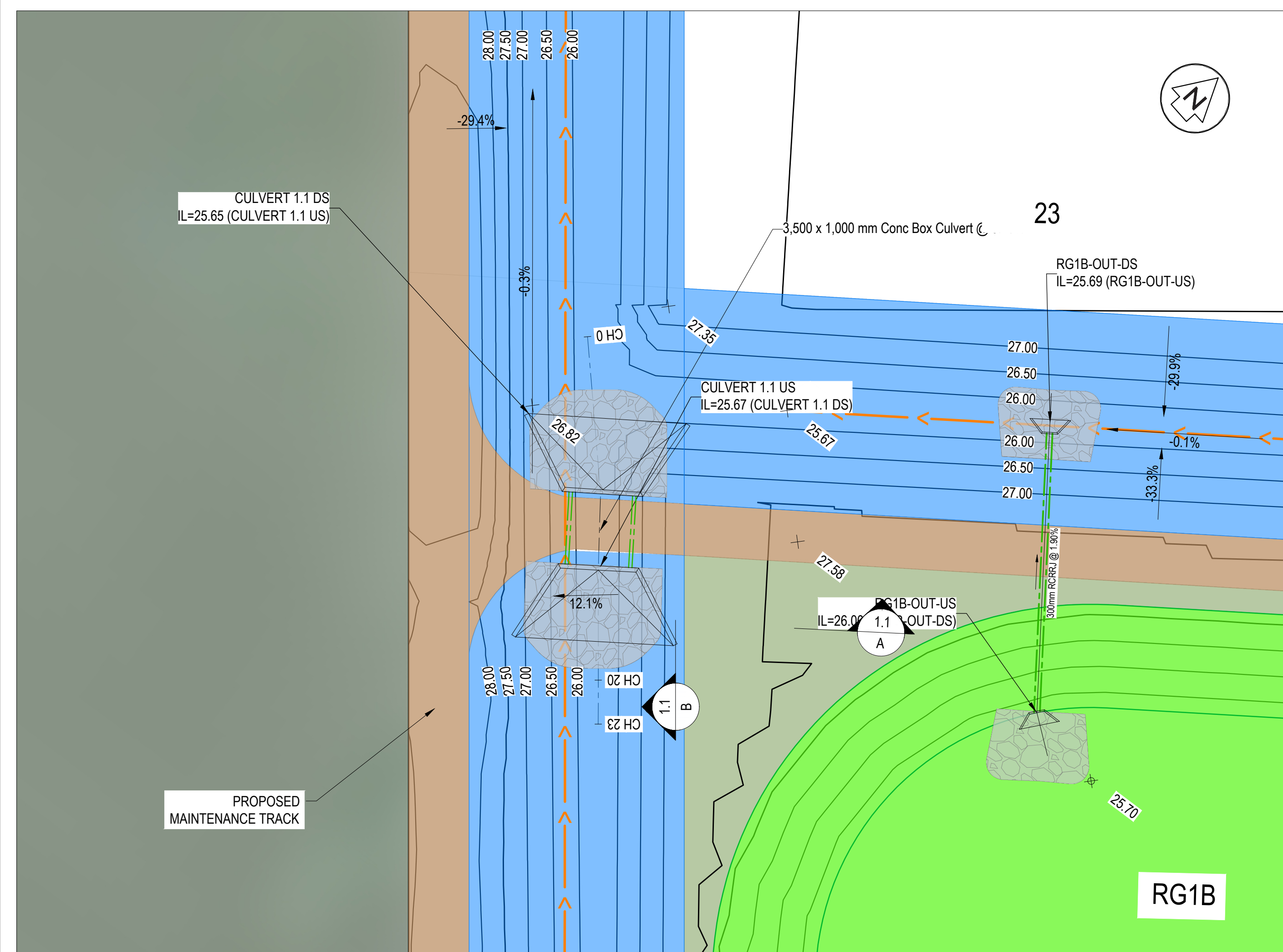
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED STORMWATER CULVERT OVERVIEW PLAN

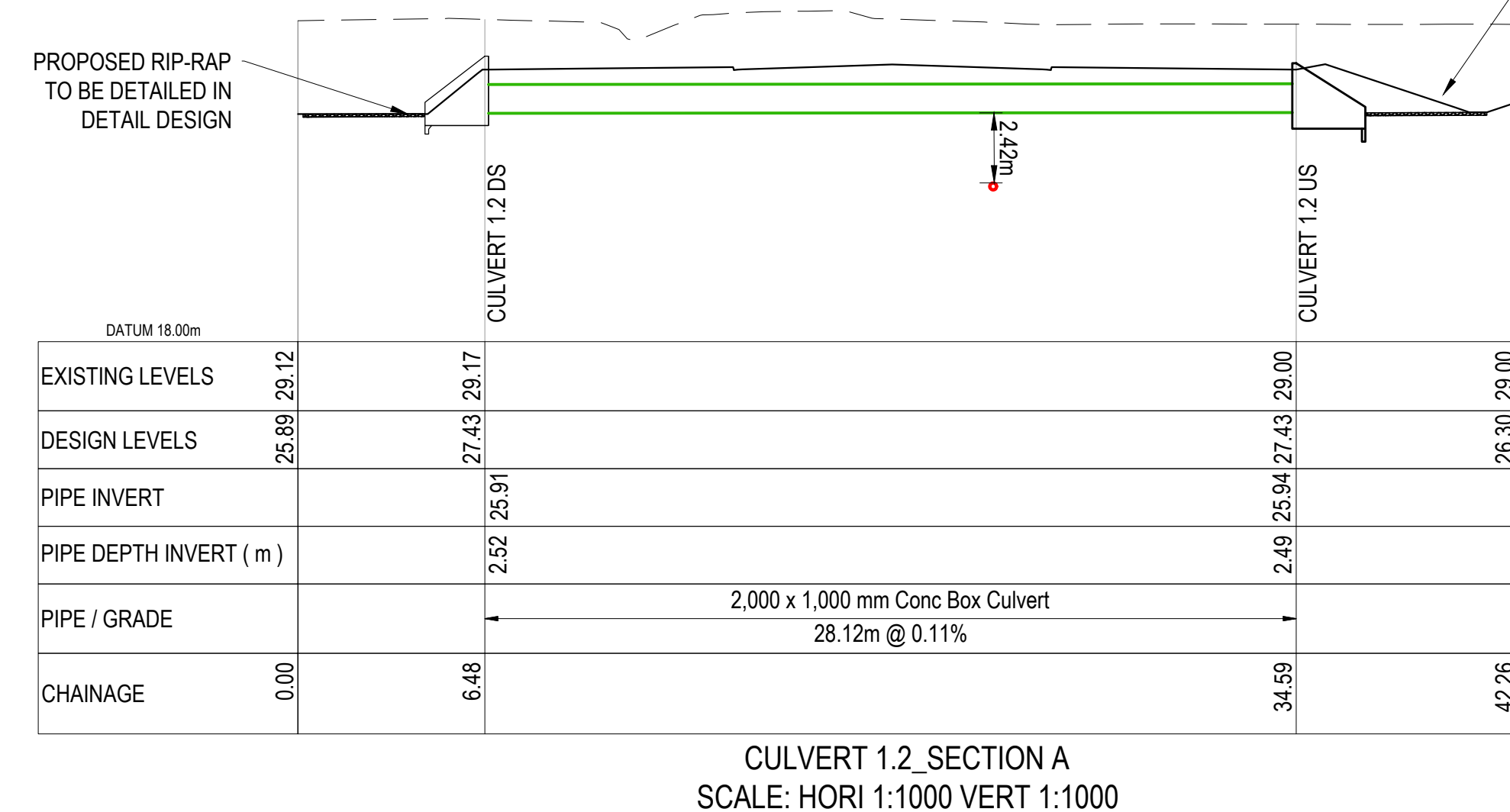
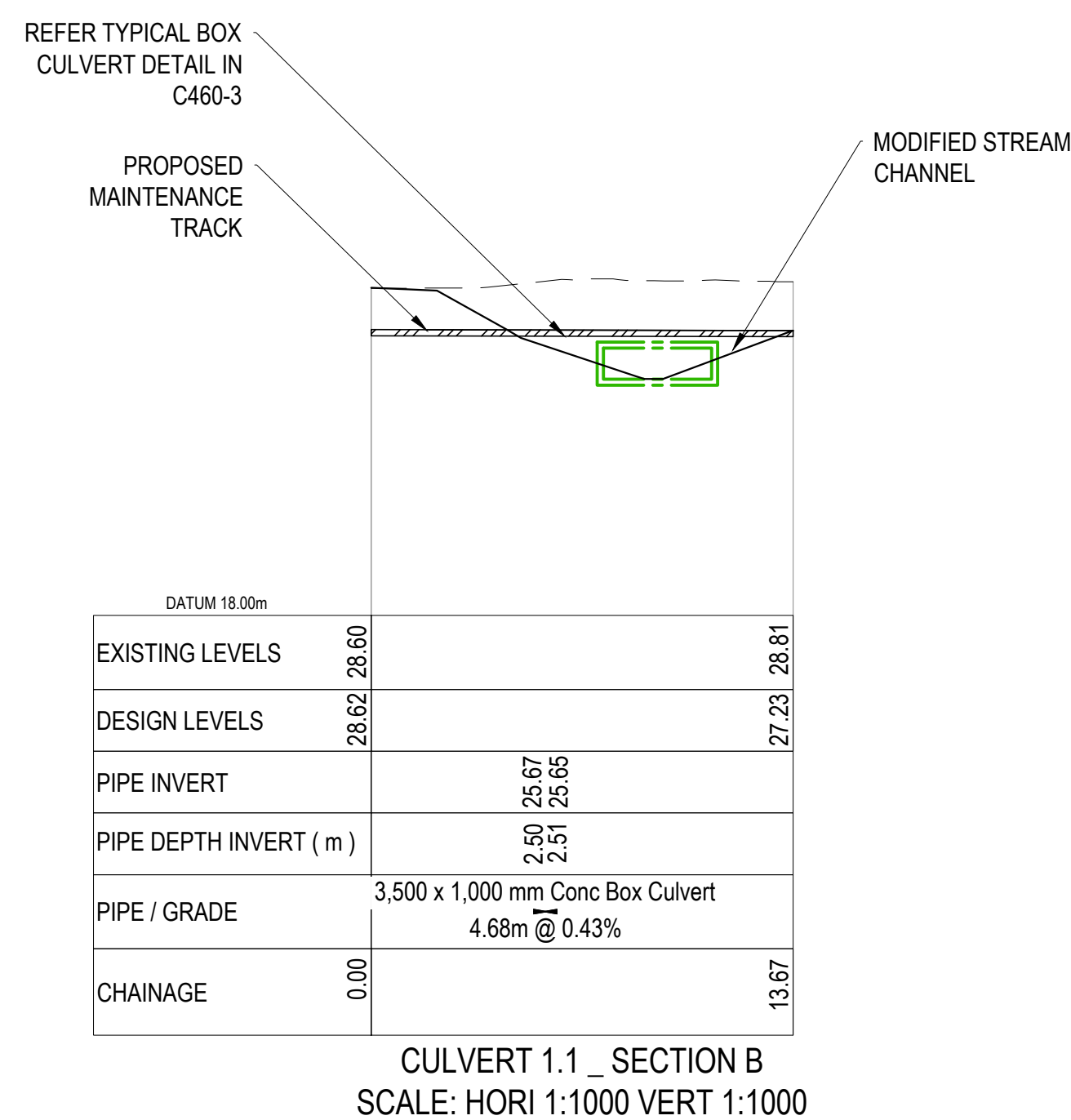
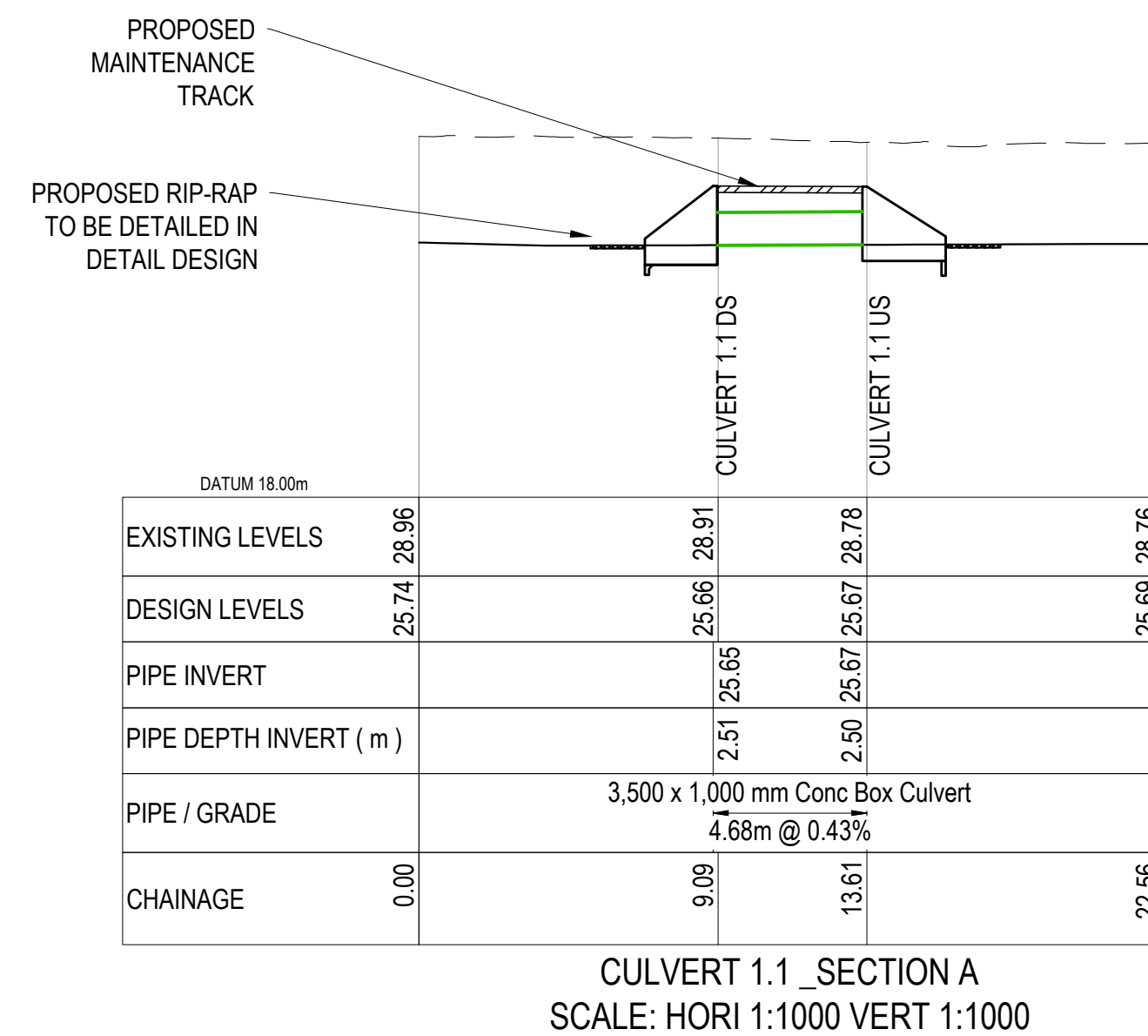
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Scale	1:4000 @ A1
Cad file	180010-CAD-CULVERTS.DWG
Drawing no.	C430
Rev	A



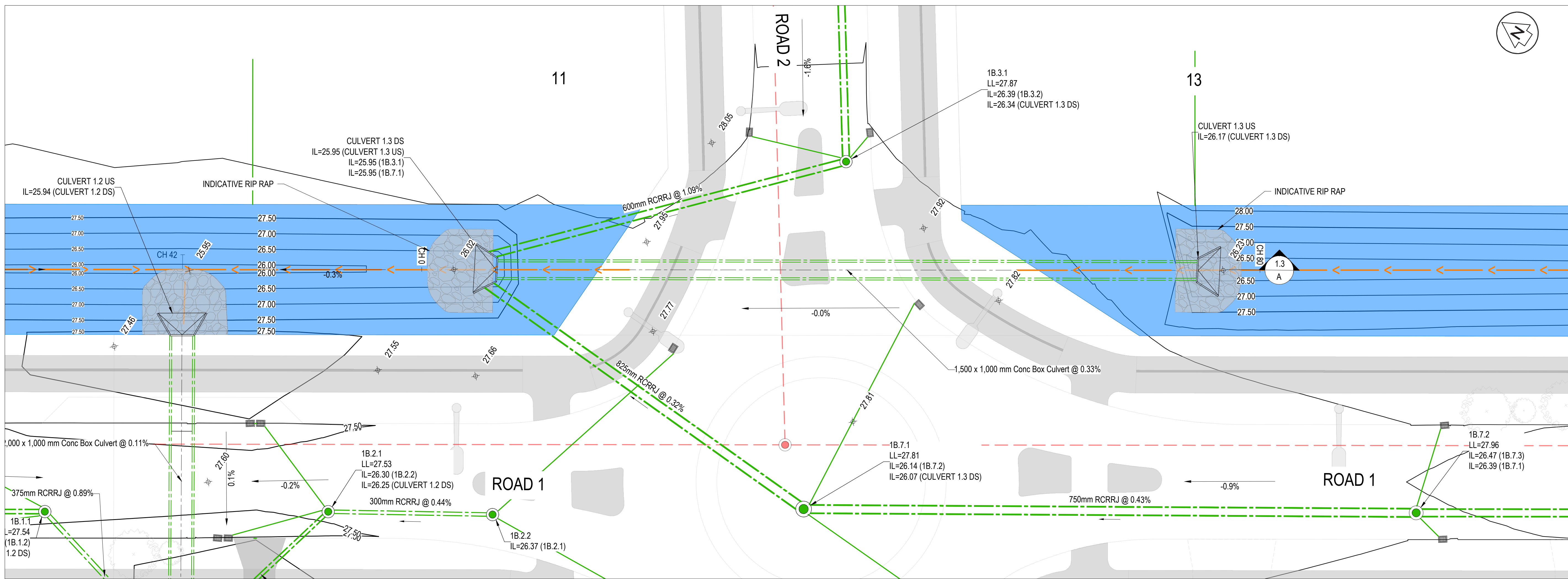
RESOURCE CONSENT



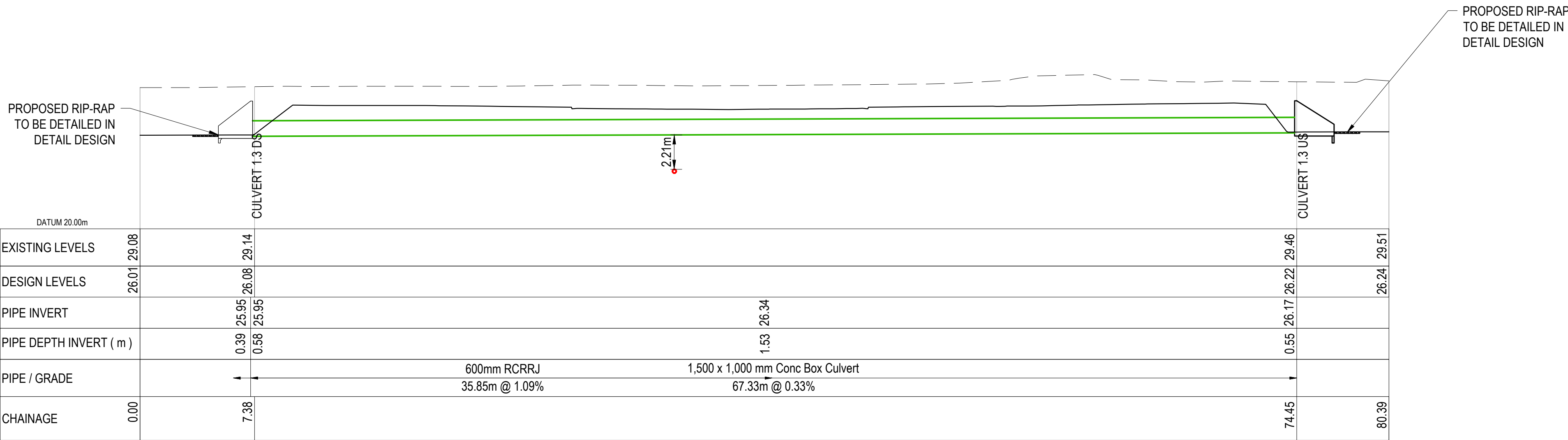
- | | |
|-------|--|
| NOTES | <ol style="list-style-type: none"> 1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/IAIWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION. 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016. 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS. |
|-------|--|



- LEGEND**
-  EX STORMWATER
 -  PR STORMWATER
 -  PR LOT CONNECTION
 -  EXPR SWIMH
 -  PR CULVERT
 -  PR MODIFIED STREAM
 -  PR 12.5m WIDE CONVEYANCE CHANNEL
 -  PR WETLAND
 -  PR RAINGARDEN
 -  PR BERM/LANDSCAPE
 -  PR MAINTENANCE TRACKS
 -  PR RECREATION TRACKS
 -  PR LOT SHEET FLOW
 -  PR MINOR OLPF
 -  PR RD OLPF DIRECTION
 -  PR RD CRESTHIGH PT
 -  PR RD SAGLOW PT
 -  PR WASTEWATER
 -  EXPR SWIMH
 -  PR LOT CONNECTION



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/AIAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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DATUM 20.00m		CULVERT 1.3 DS		CULVERT 1.3 US	
EXISTING LEVELS	29.08	29.14		29.46	29.51
DESIGN LEVELS	26.01	26.08	26.34	26.22	26.24
PIPE INVERT		25.95	26.34	26.17	
PIPE DEPTH INVERT (m)		0.39	1.53	0.55	
PIPE / GRADE		600mm RCRRJ 35.85m @ 1.09%		1,500 x 1,000 mm Conc Box Culvert 67.33m @ 0.33%	
CHAINAGE	0.00	7.36		74.45	80.39

CULVERT 1.3 _ SECTION A
SCALE: HORI 1:1000 VERT 1:1000

- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
 - PR RAINGARDEN
 - PR BERM/LANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATION TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OLFP
 - PR RD OLFP DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION



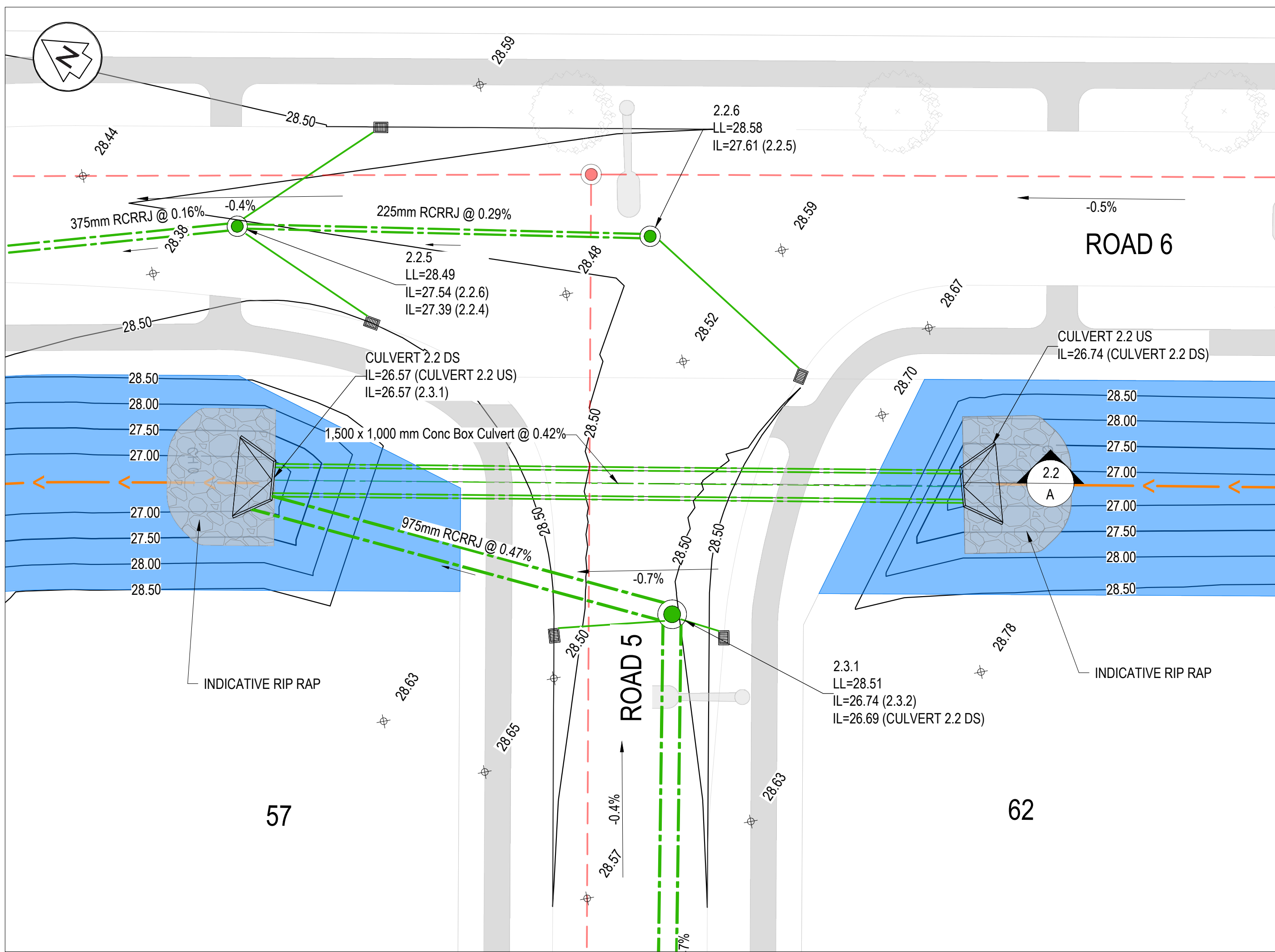
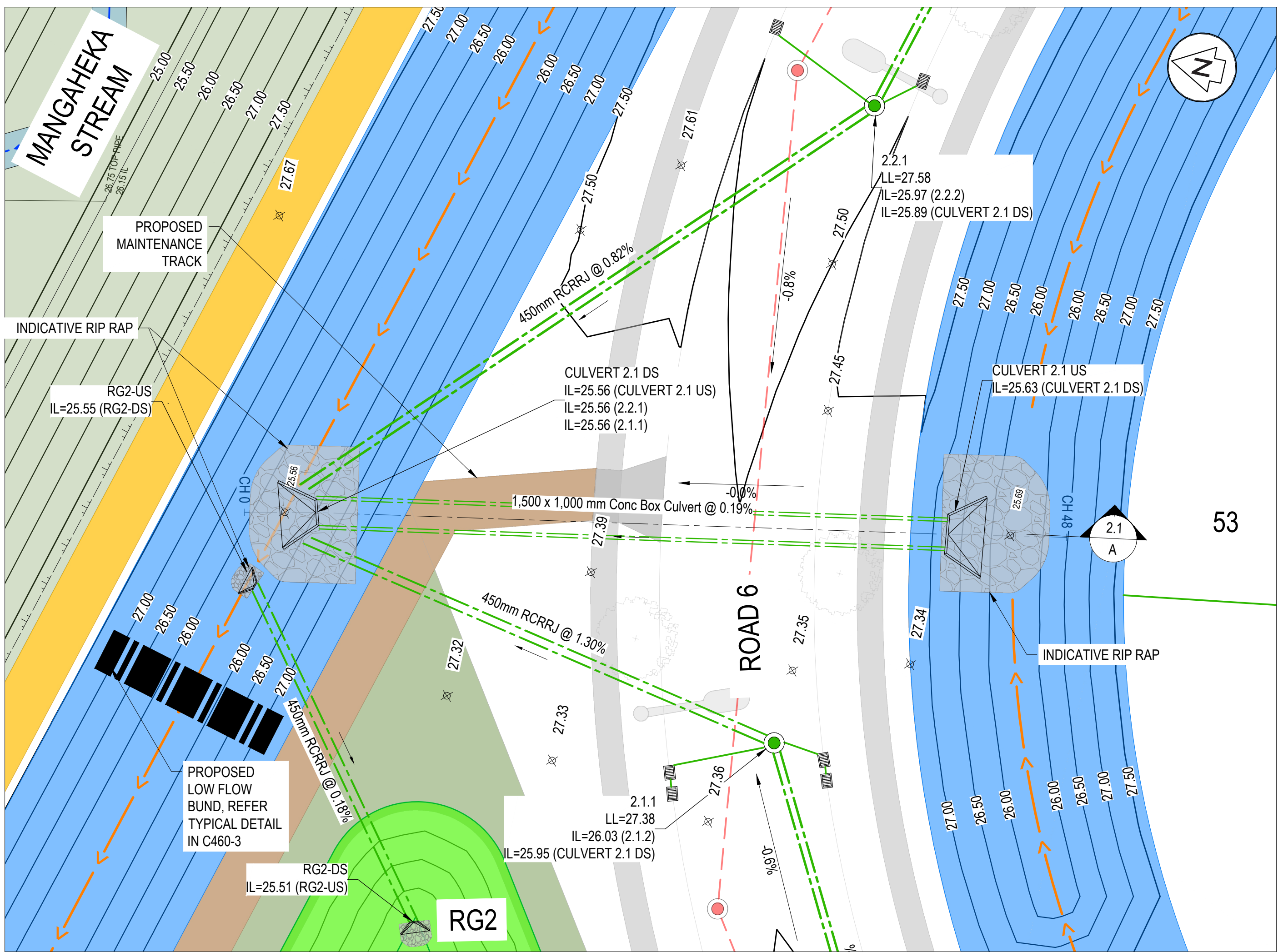
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- LEGEND
-  EX STORMWATER
 -  PR STORMWATER
 -  PR LOT CONNECTION
 -  EXPR SWMH
 -  PR CULVERT
 -  PR MODIFIED STREAM
 -  PR 12.5m WIDE CONVEYANCE CHANNEL
 -  PR WETLAND
 -  PR RAINGARDEN
 -  PR BERMLANDSCAPE
 -  PR MAINTENANCE TRACKS
 -  PR RECREATION TRACKS
 -  PR LOT SHEET FLOW
 -  PR MINOR OLF
 -  PR RD OLF DIRECTION
 -  PR RD CREST/HIGH PT
 -  PR RD SAG/LOW PT
 -  PR WASTEWATER
 -  EXPR SWMH
 -  PR LOT CONNECTION

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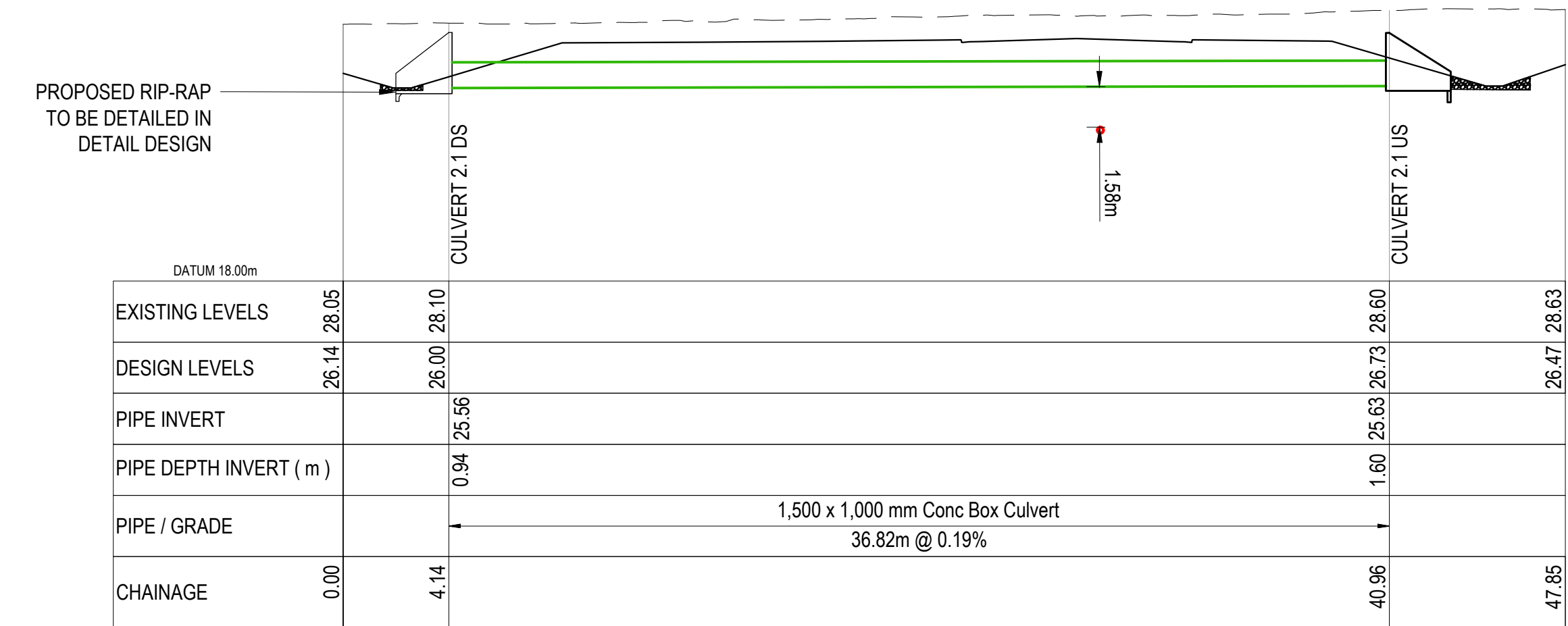
Title
**PROPOSED
STORMWATER CULVERT
PLAN**

Project no.	180010		
Scale	1:200 @ A1		
Cad file	180010-C430 CULVERTS.DWG		
Drawing no.	C431-3	Rev	A

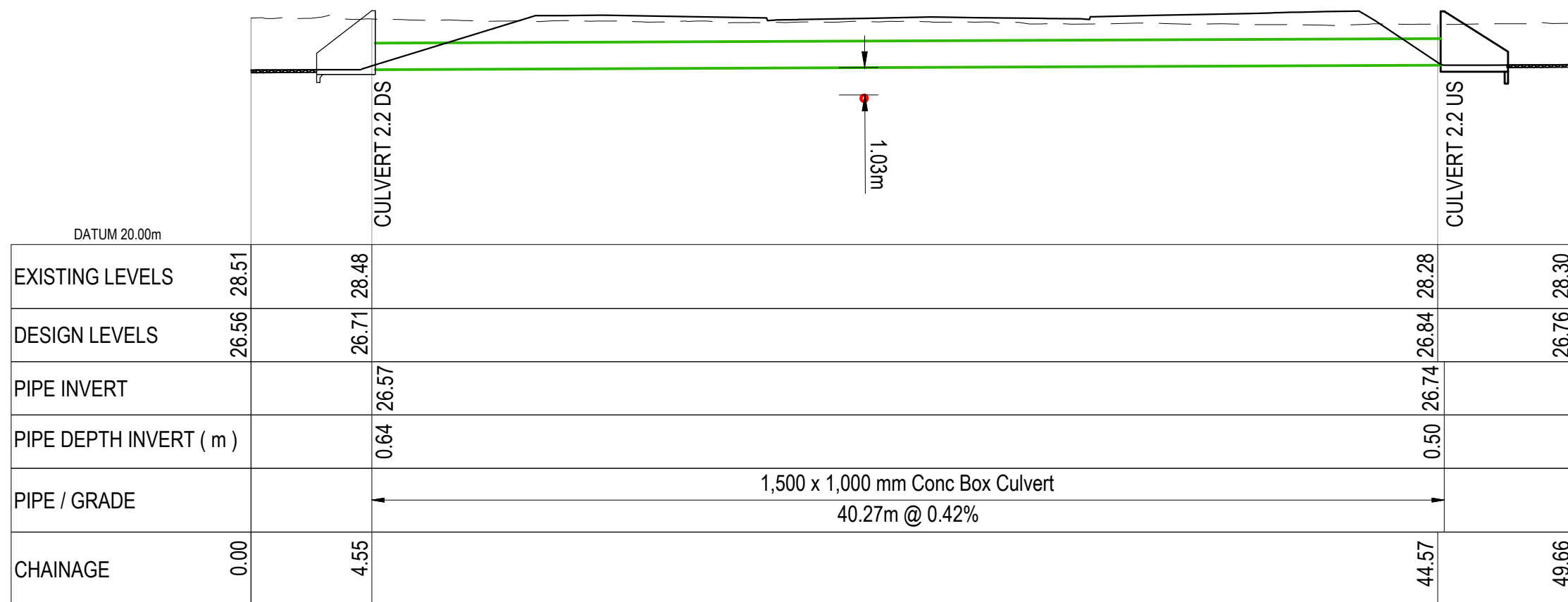


NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/AIAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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CULVERT 2.1_SECTION A
SCALE: HORI 1:1000 VERT 1:1000



CULVERT 2.2_SECTION A
SCALE: HORI 1:1000 VERT 1:1000

- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
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 - PR RD OLPF DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

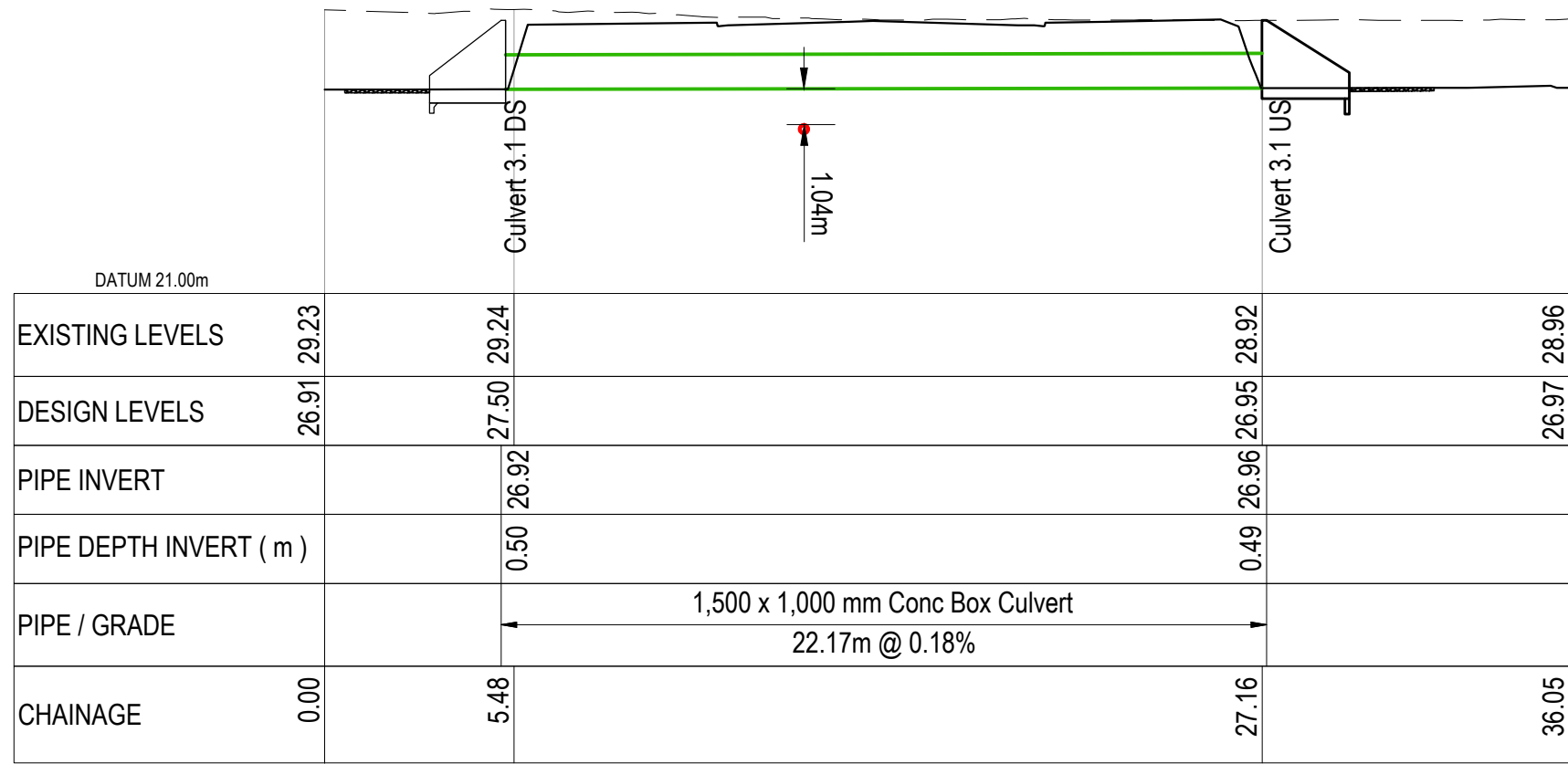
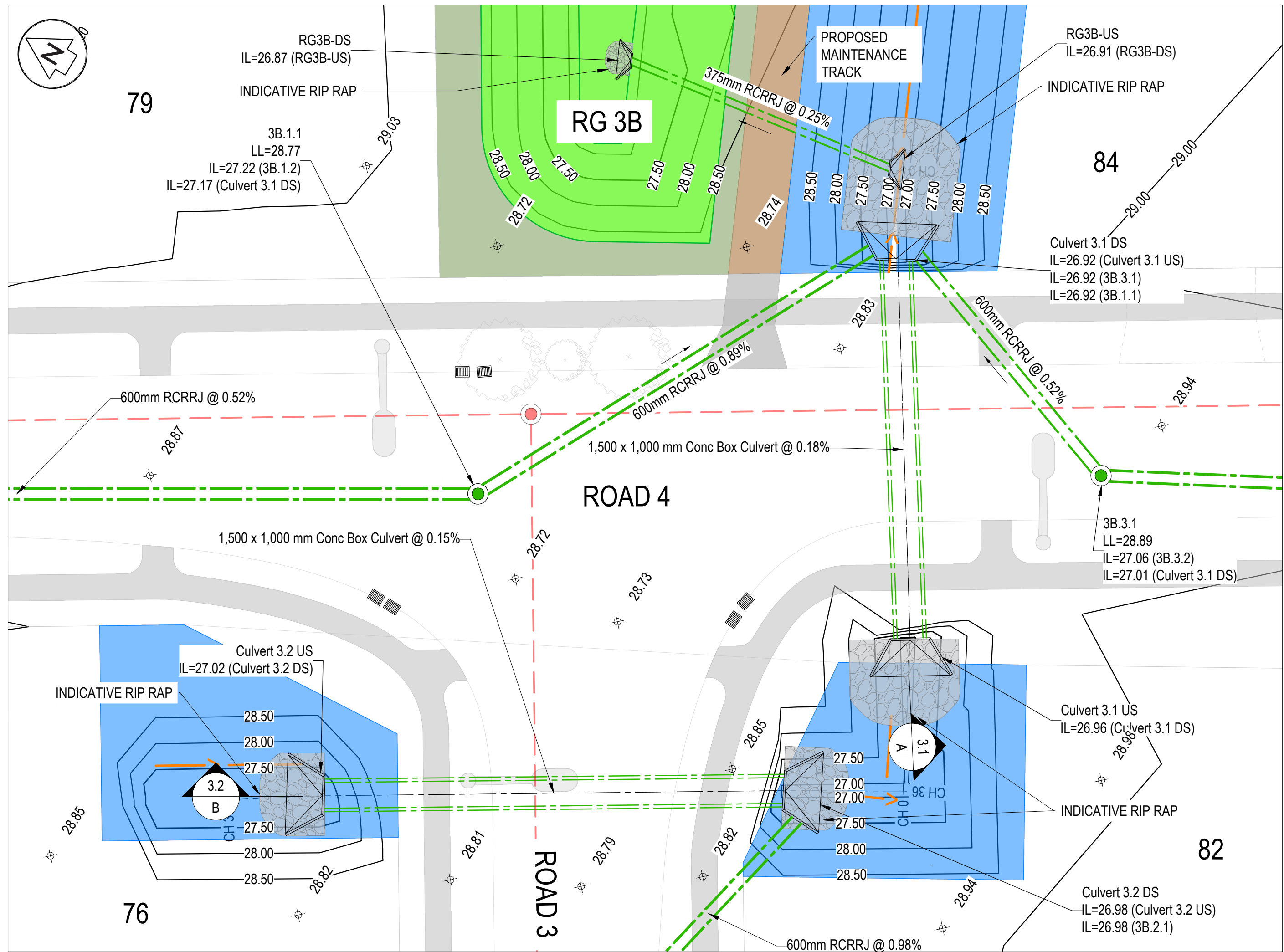
Ref	Revisions	By	Date
A	RESOURCE CONSENT	AF	08/2026

Survey MAVEN 10/2025
Design AF 08/2026
Drawn AF 08/2026
Checked KY 08/2026

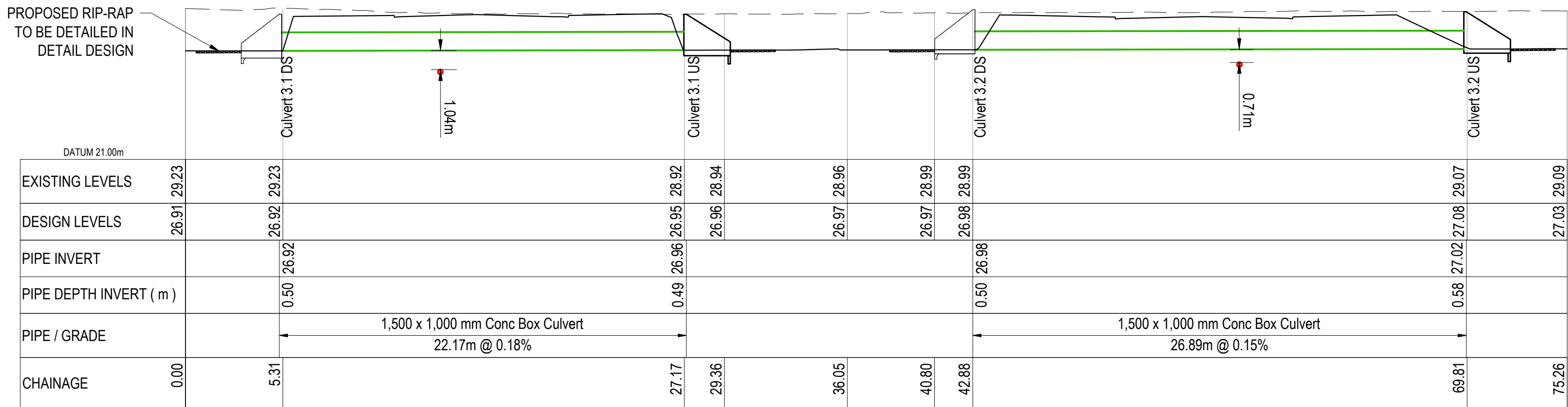
Maven Associates
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED STORMWATER CULVERT PLAN

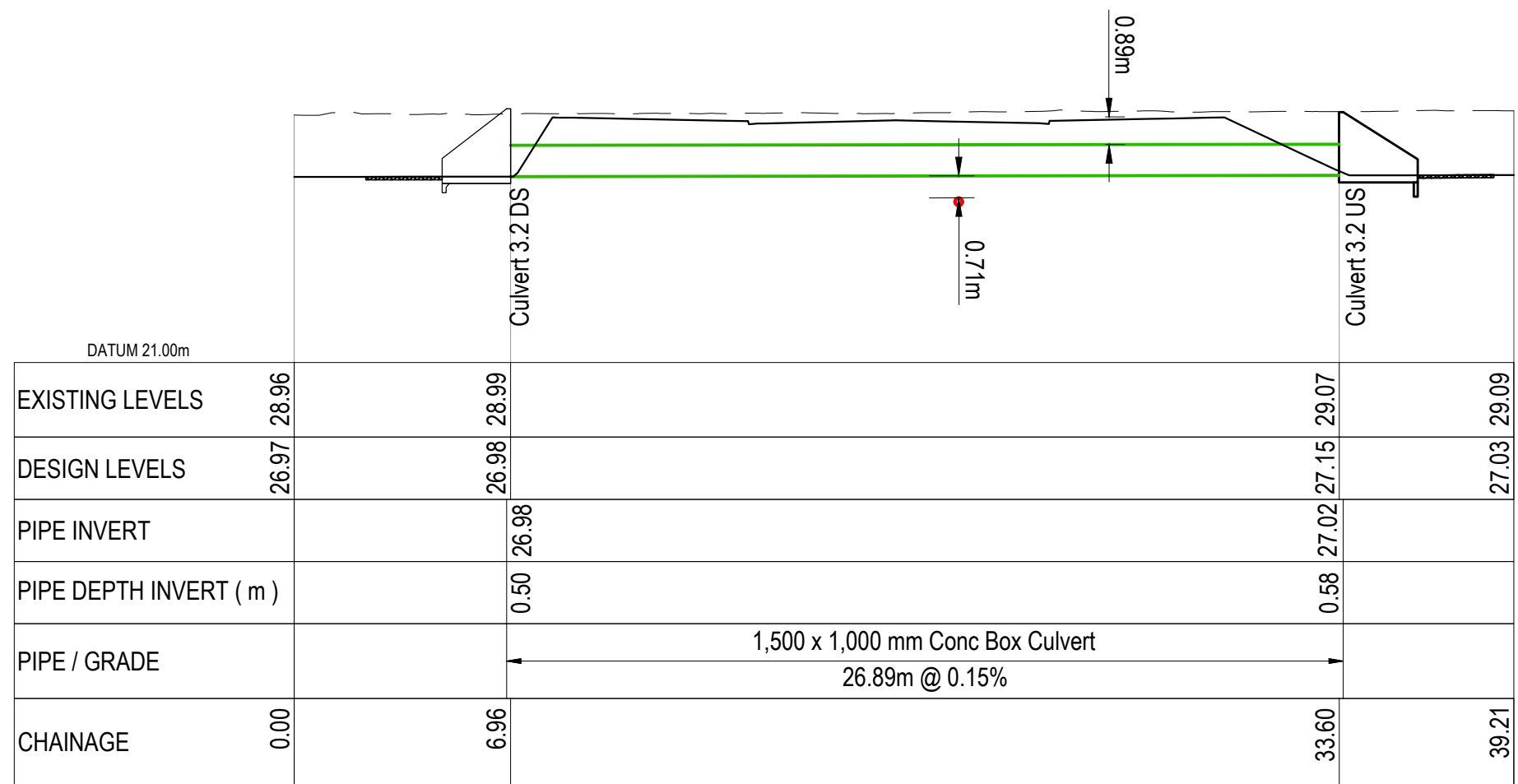
Project no. 180010
Scale 1:200 @ A1
Cad file 180010-CAD CULVERTS.DWG
Drawing no. C431-4 Rev A



CULVERT 3.1_SECTION A
SCALE: HORI 1:1000 VERT 1:1000



CULVERT 3.1 & 3.2
SCALE: HORI 1:1000 VERT 1:1000



CULVERT 3.2_SECTION A
SCALE: HORI 1:1000 VERT 1:1000

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/AIAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
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 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

Ref	Revisions	By	Date
A	RESOURCE CONSENT	AF	08/2026

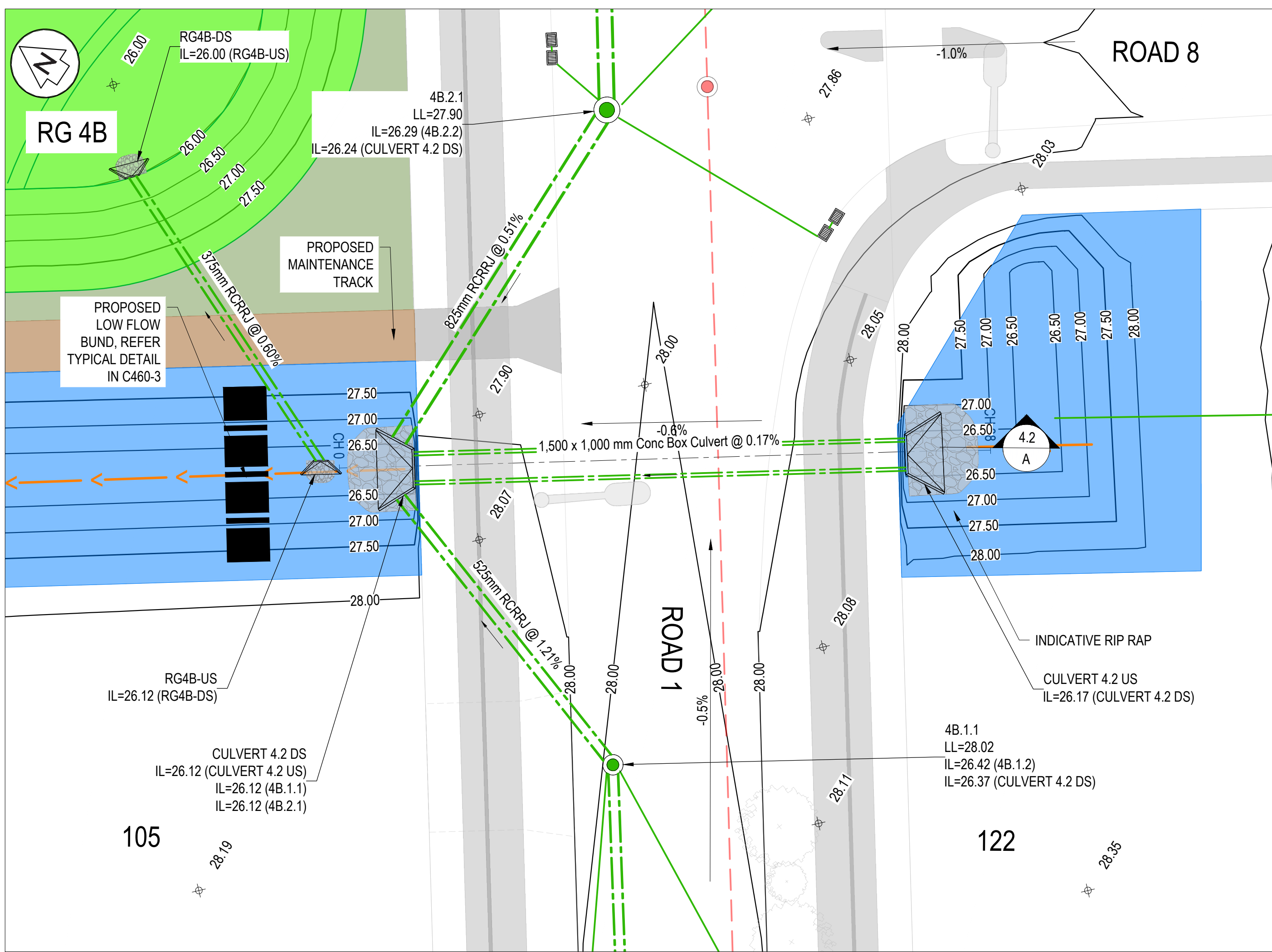
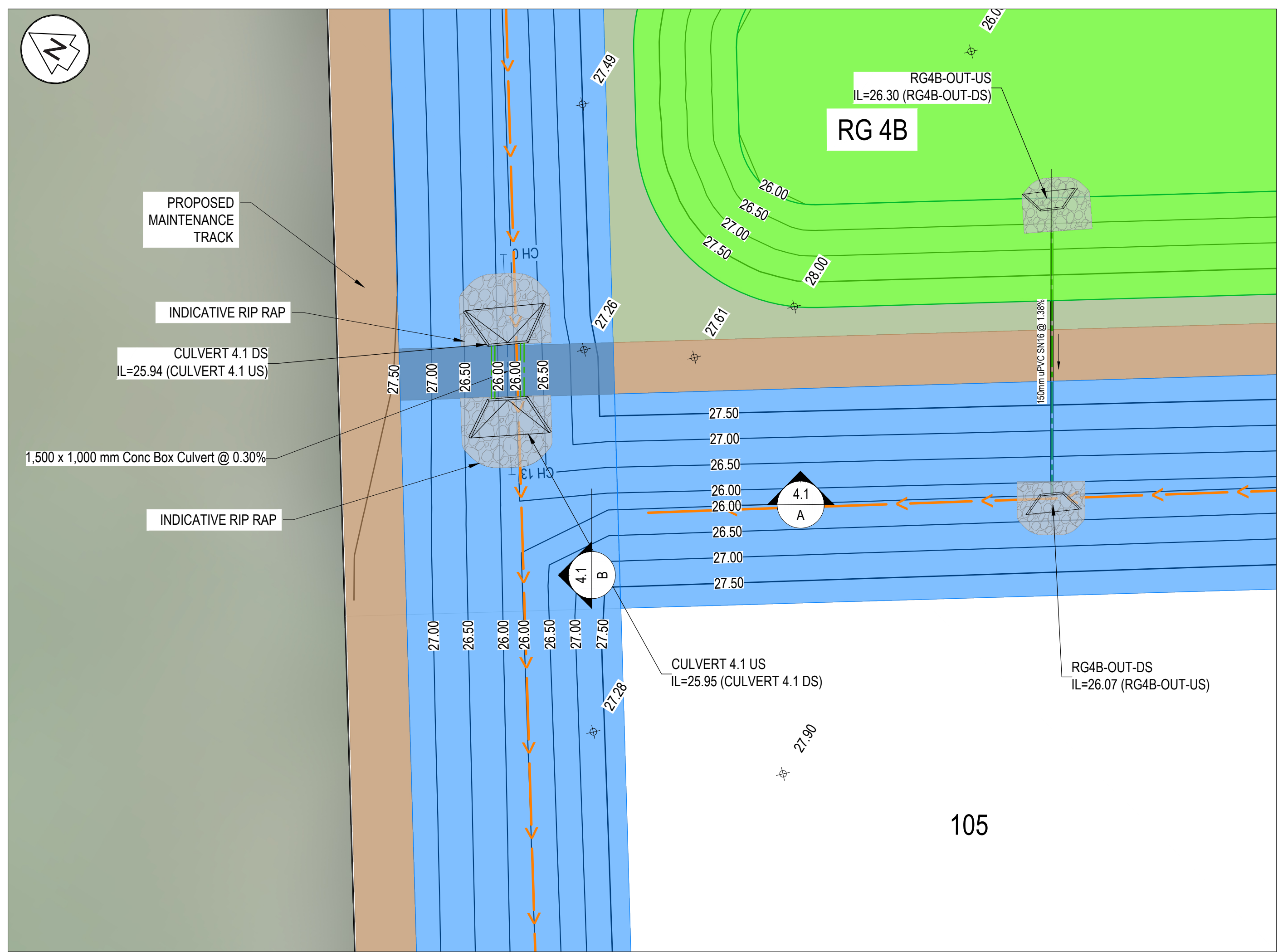
Survey	MAVEN	10/2025
Design	AF	08/2026
Drawn	AF	08/2026
Checked	KY	08/2026

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5 Queens Road, Epsom
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Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

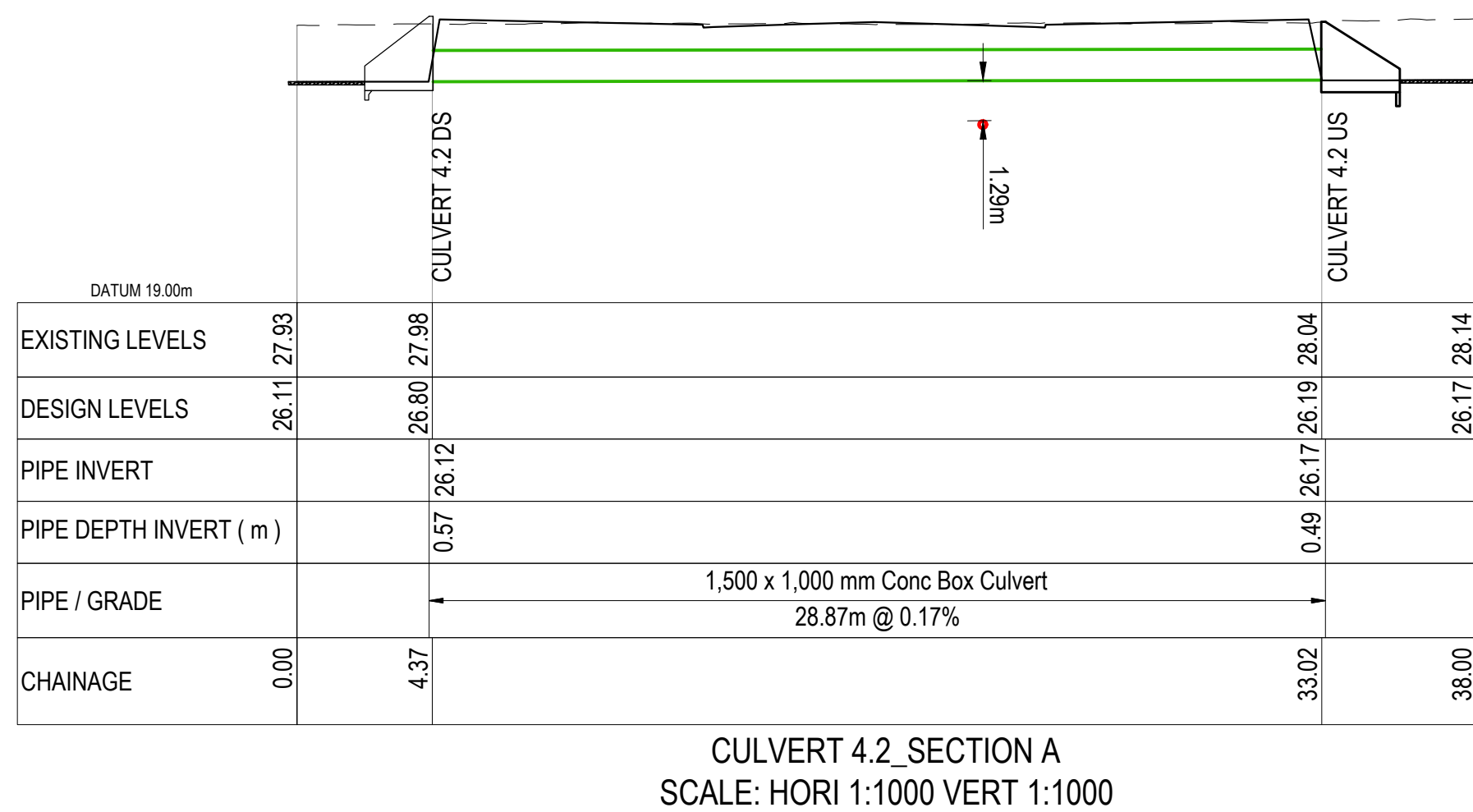
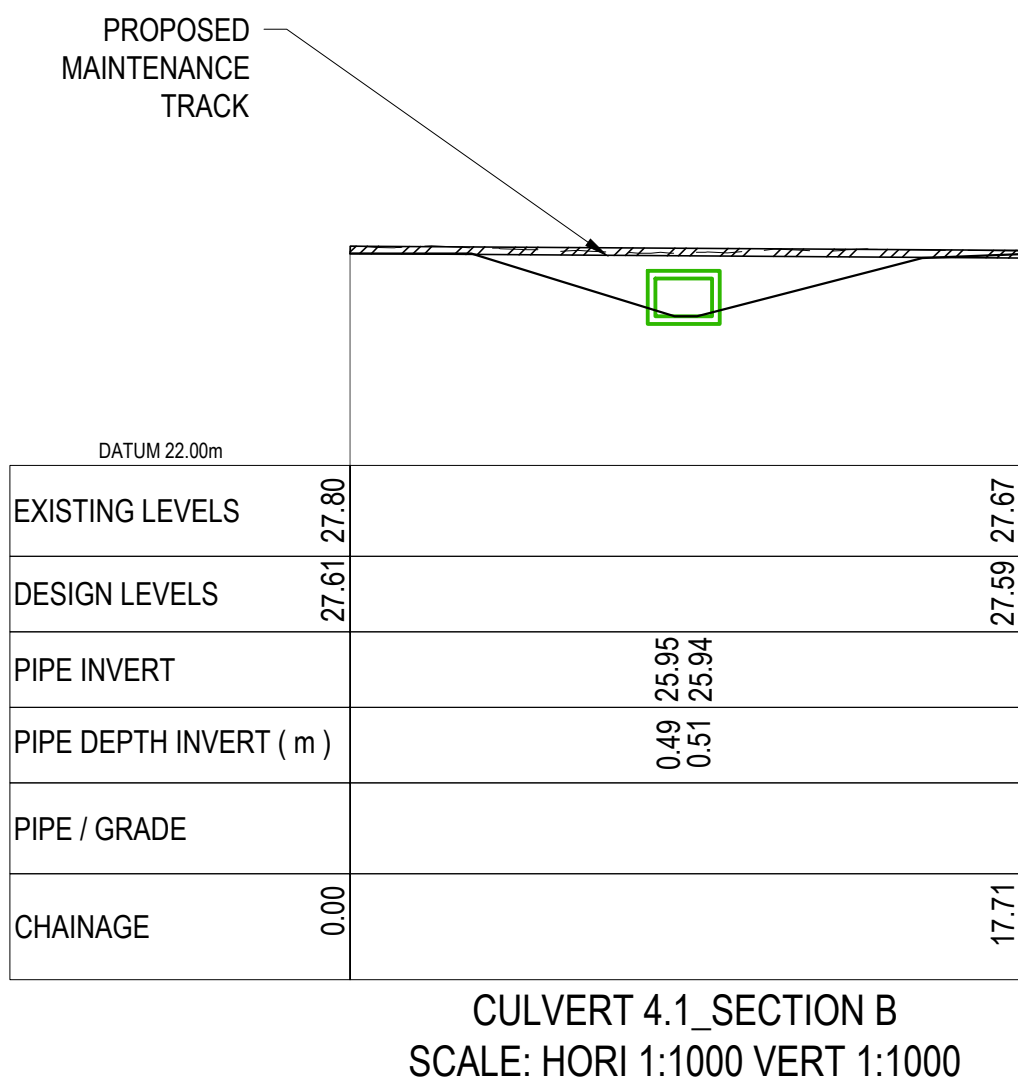
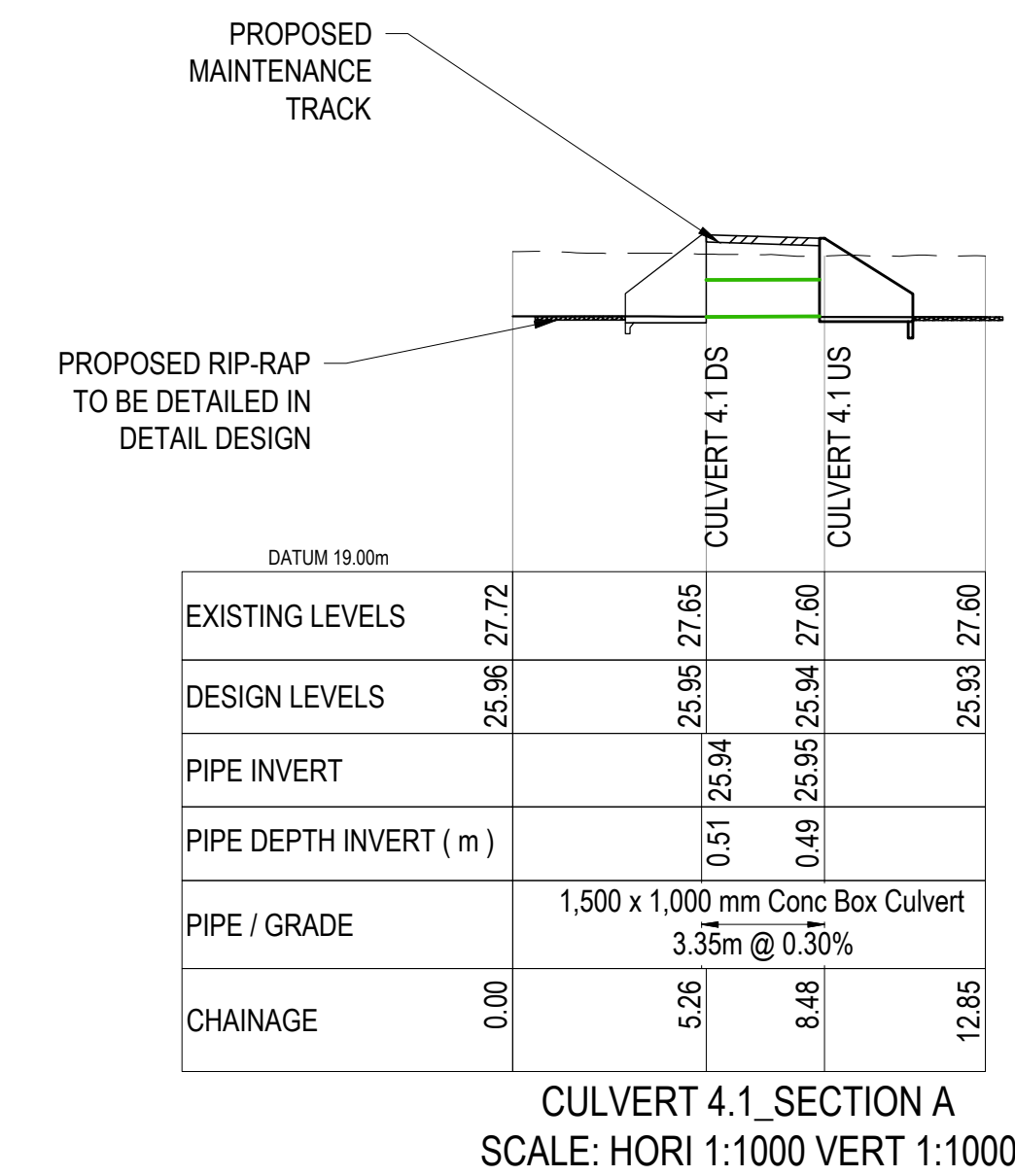
Title
PROPOSED STORMWATER CULVERT PLAN

Project no.	180010
Scale	1:200 @ A1
Cad file	180010-CAD CULVERTS.DWG
Drawing no.	C431-5
Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/AIAWI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
 - PR RAINGARDEN
 - PR BERM/LANDSCAPE
 - PR MAINTENANCE TRACKS
 - PR RECREATION TRACKS
 - PR LOT SHEET FLOW
 - PR MINOR OLFP
 - PR RD OLFP DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION



RESOURCE CONSENT

Ref	Revisions	By	Date
A	RESOURCE CONSENT	AF	08/2026

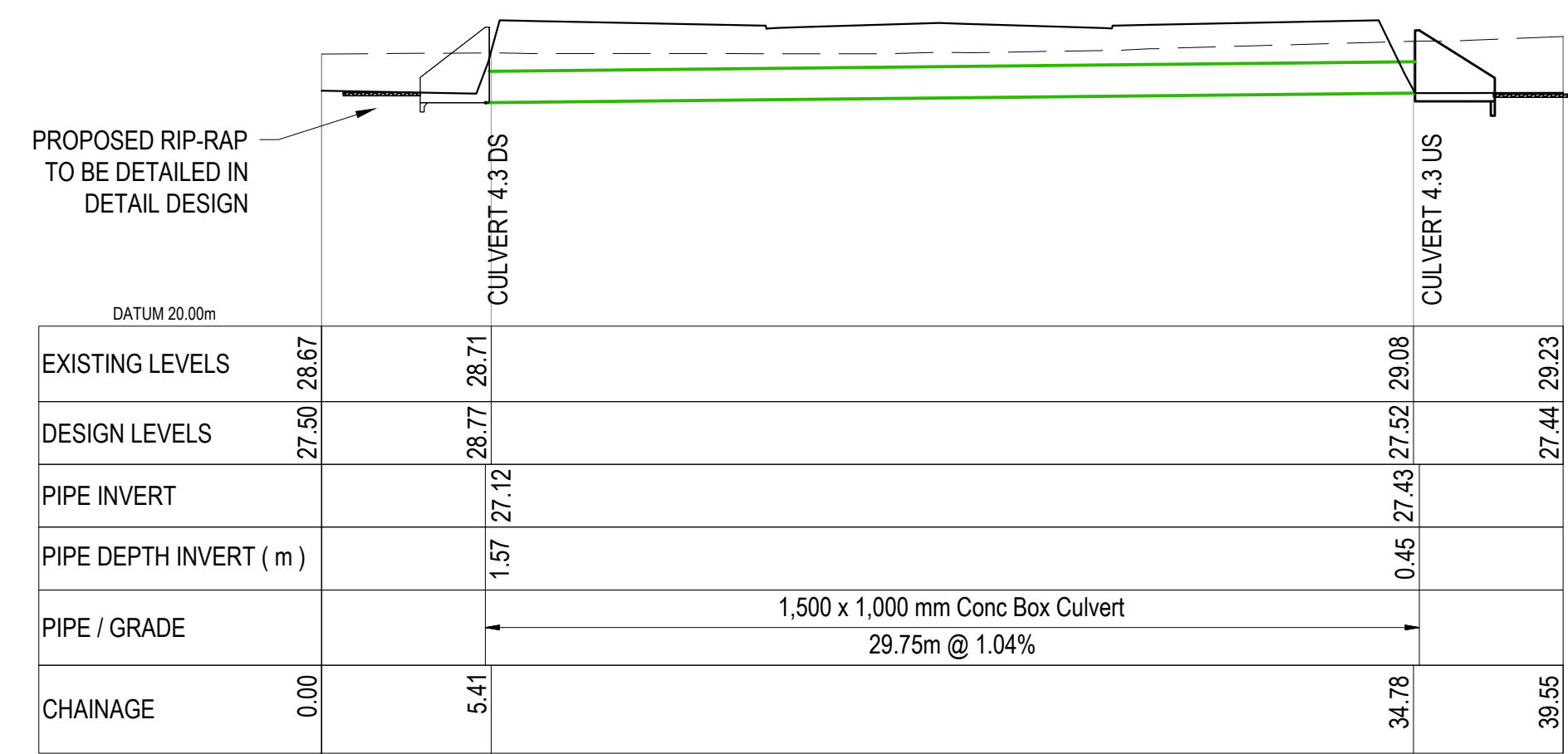
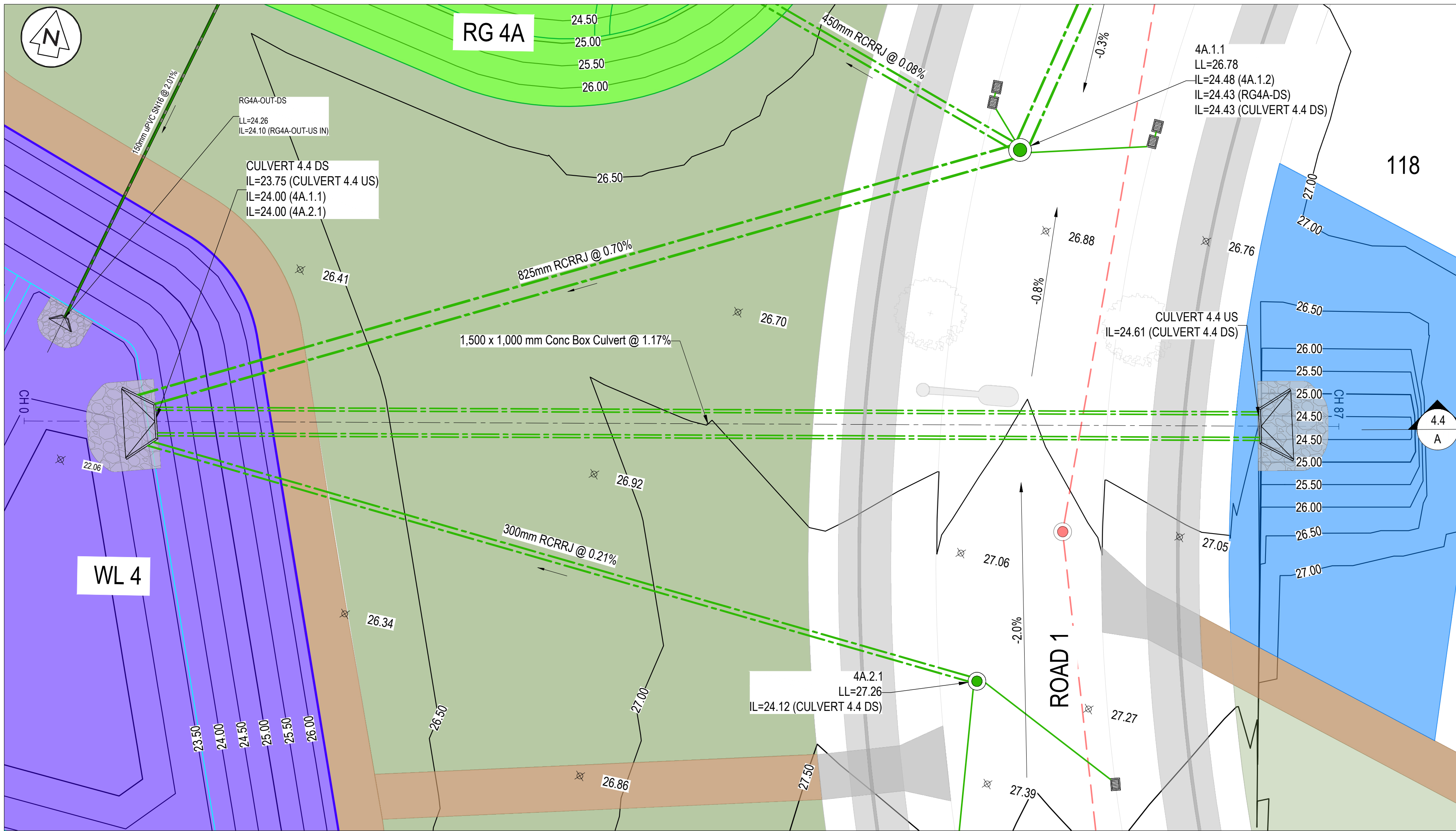
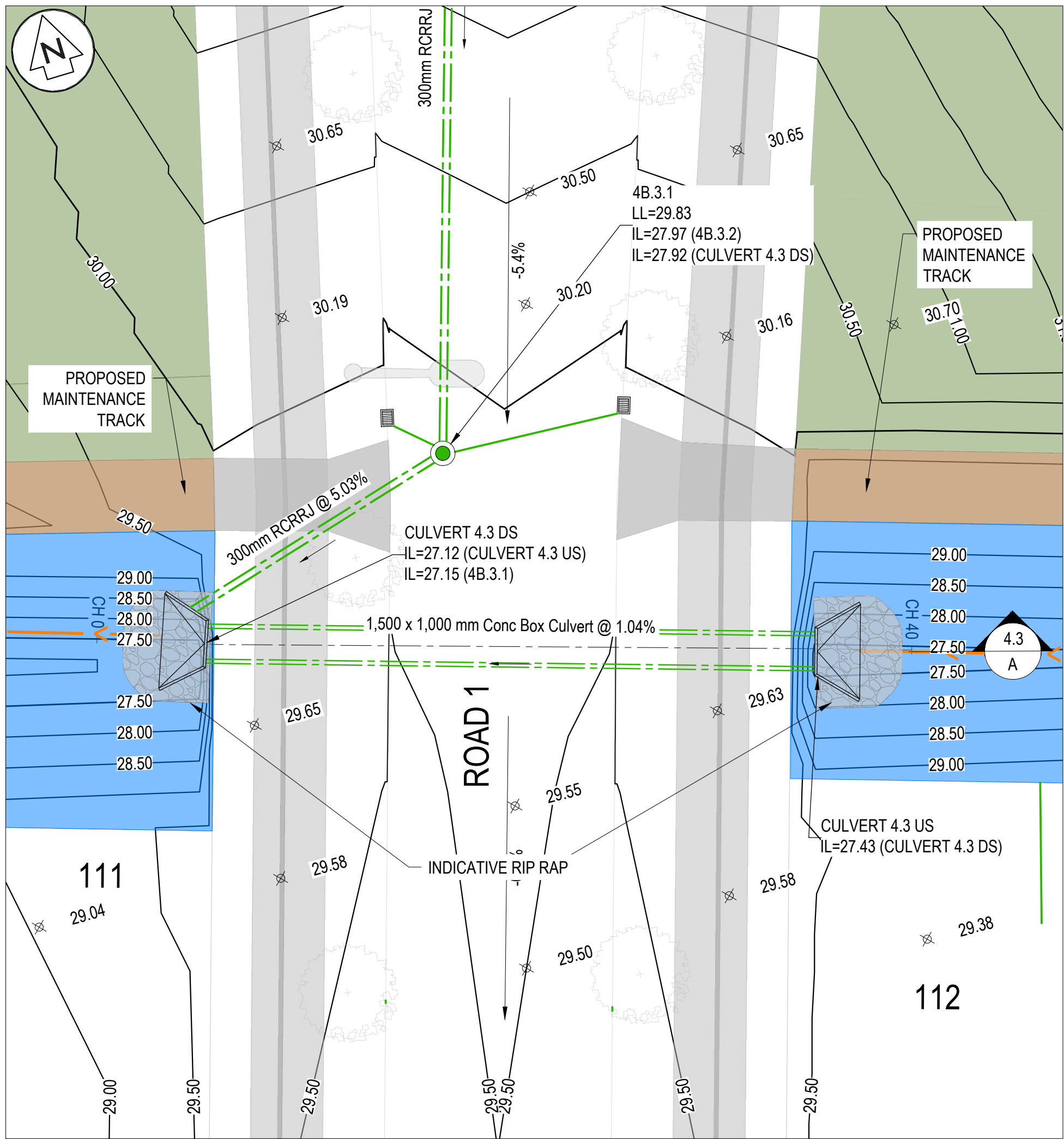
Survey	MAVEN	10/2025
Design	AF	08/2026
Drawn	AF	08/2026
Checked	KY	08/2026

M **MAVEN Associates**
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Highway 101
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Auckland 1020

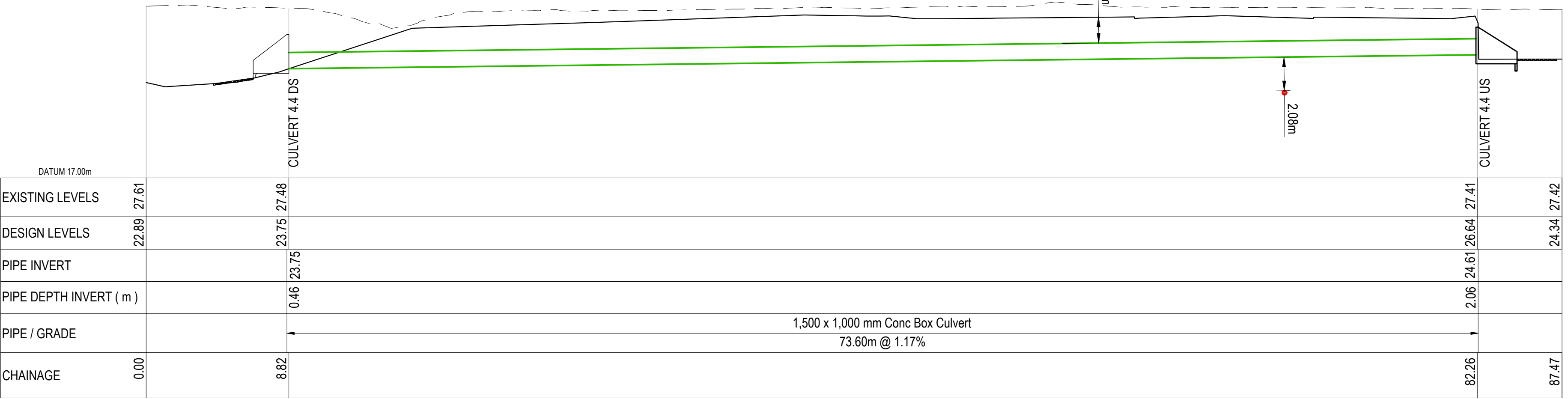
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED STORMWATER CULVERT PLAN

Project no.	180010
Scale	1:200 @ A1
Cad file	180010-C4B-CULVERTS.DWG
Drawing no.	C431-6
Rev	A



CULVERT 4.3. SECTION A
SCALE: HORI 1:1000 VERT 1:1000



CULVERT 4.4. SECTION A
SCALE: HORI 1:1000 VERT 1:1000

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/JAWAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
 - PR 12.5m WIDE CONVEYANCE CHANNEL
 - PR WETLAND
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 - PR RD OLFP DIRECTION
 - PR RD CREST/HIGH PT
 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

Ref	Revisions	By	Date
A	RESOURCE CONSENT	AF	08/2026

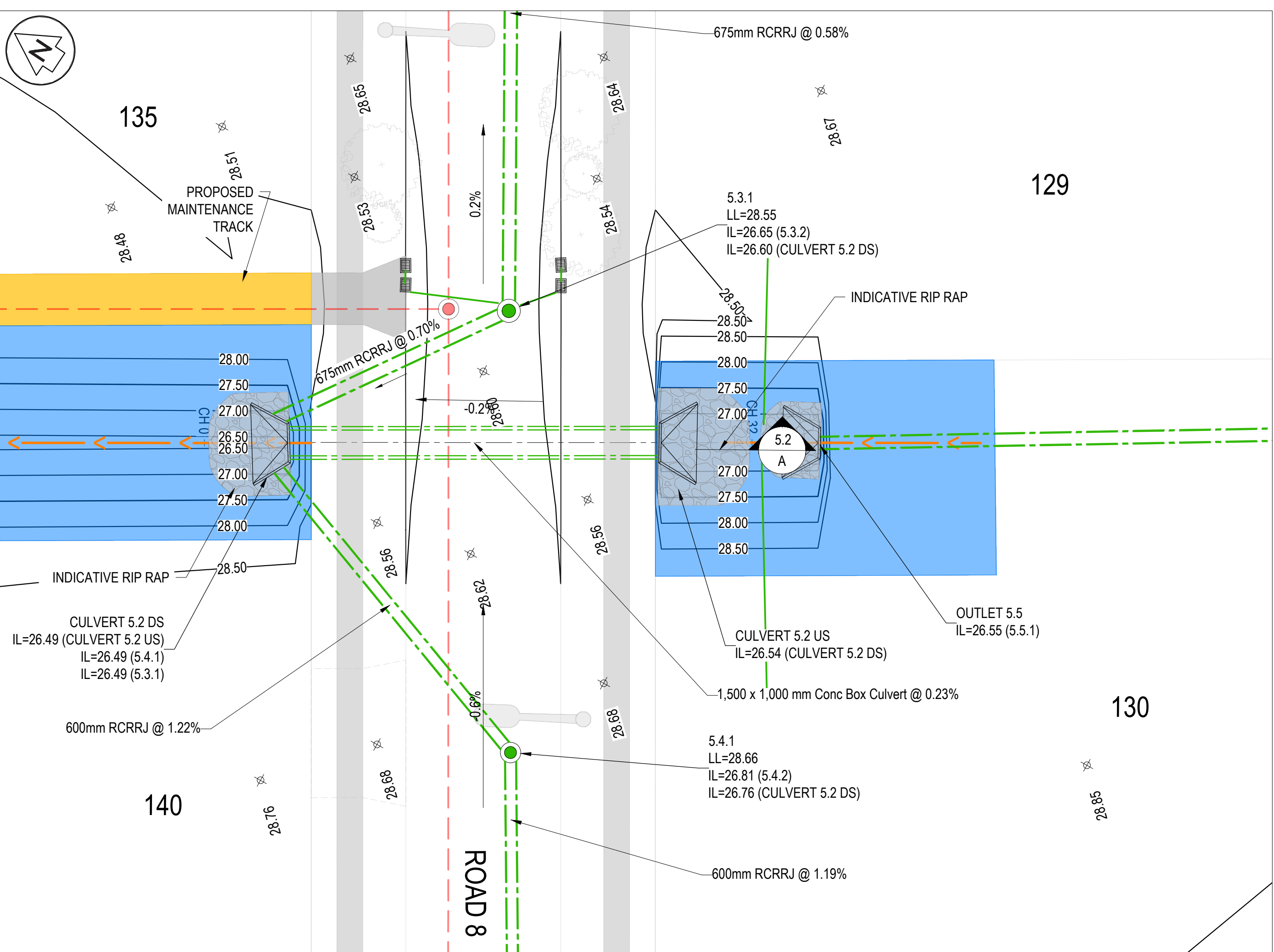
Survey	MAVEN	10/2025
Design	AF	08/2026
Drawn	AF	08/2026
Checked	KY	08/2026

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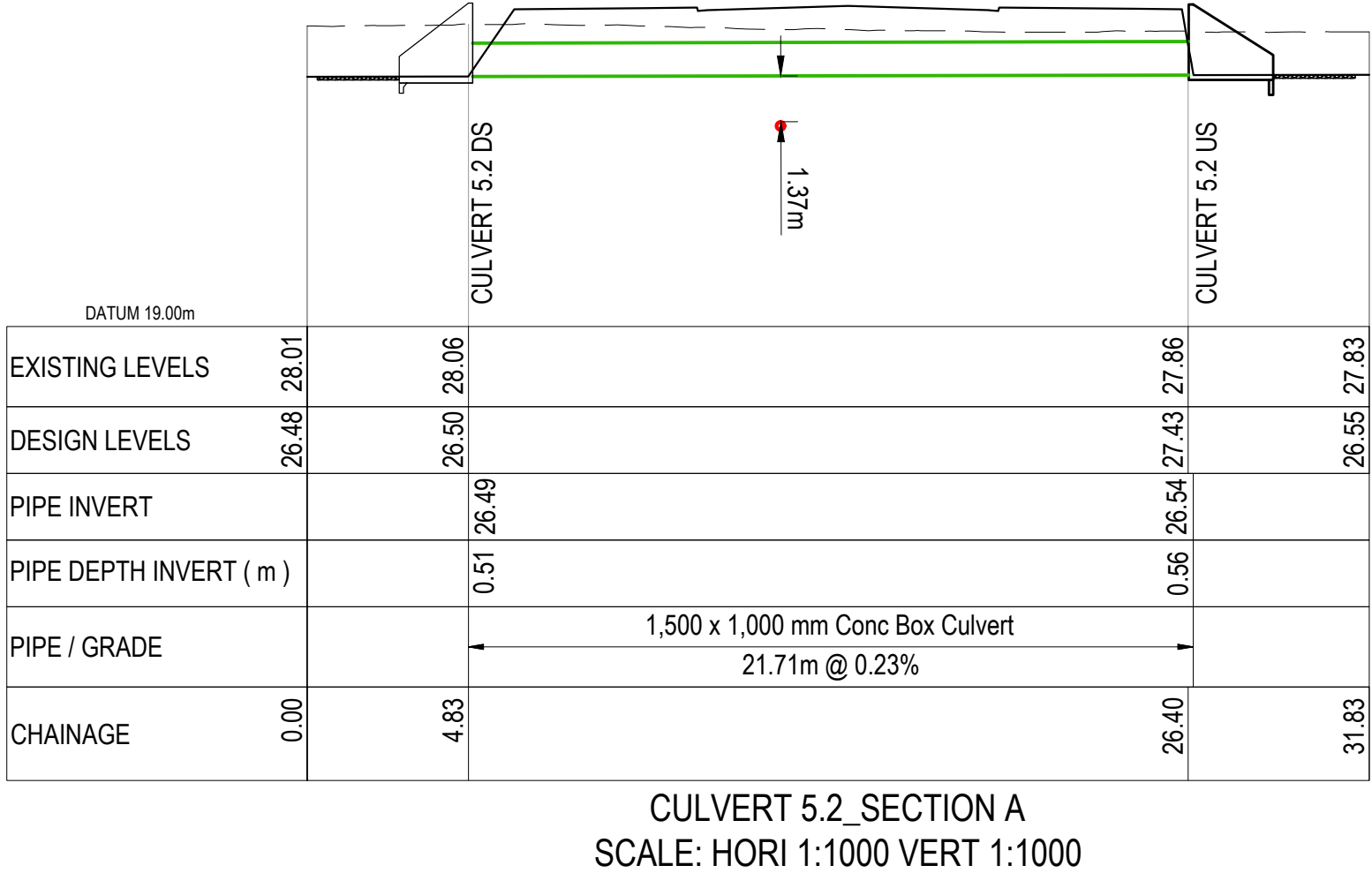
Project
PROPOSED INDUSTRIAL DEVELOPMENT AT TE KOWHAI EAST FOR TE KOWHAI EAST LIMITED PARTNERSHIP

Title
PROPOSED STORMWATER CULVERT PLAN

Project no.	180010
Scale	1:200 @ A1
Cad file	180010-C4B-CULVERTS.DWG
Drawing no.	C431-7
Rev	A



LEGEND	
	EX STORMWATER
	PR STORMWATER
	PR LOT CONNECTION
	EXPR SWIMH
	PR CULVERT
	PR MODIFIED STREAM
	PR 12.5m WIDE
	CONVEYANCE CHANNEL
	PR WETLAND
	PR RAINGARDEN
	PR BERM/LANDSCAPE
	TRACKS
	PR RECREATION TRACKS
	PR LOT SHEET FLOW
	PR MINOR OLPF
	PR RD OLPF DIRECTION
	PR RD CRESTHIGHT PT
	PR RD SAGLOW PT
	PR WASTEWATER
	EXPR SWIMH
	PR LOT CONNECTION



A RESOURCE CONSENT		AF	08/20/26
Ref	Revisions	Date	
Survey	MAVEN	10/05/25	
Design	AF	08/05/26	
Draw	AF	08/05/26	
Checked	KY	08/05/26	



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 CLEVELAND OFFICE

Project

PROPOSED INDUSTRIAL DEVELOPMENT AT THE KOVWHAI EAST FOR THE KOVWHAI EAST LIMITED PARTNERSHIP

Title

PROPOSED STORMWATER CULVERT PROJECT

Drawn

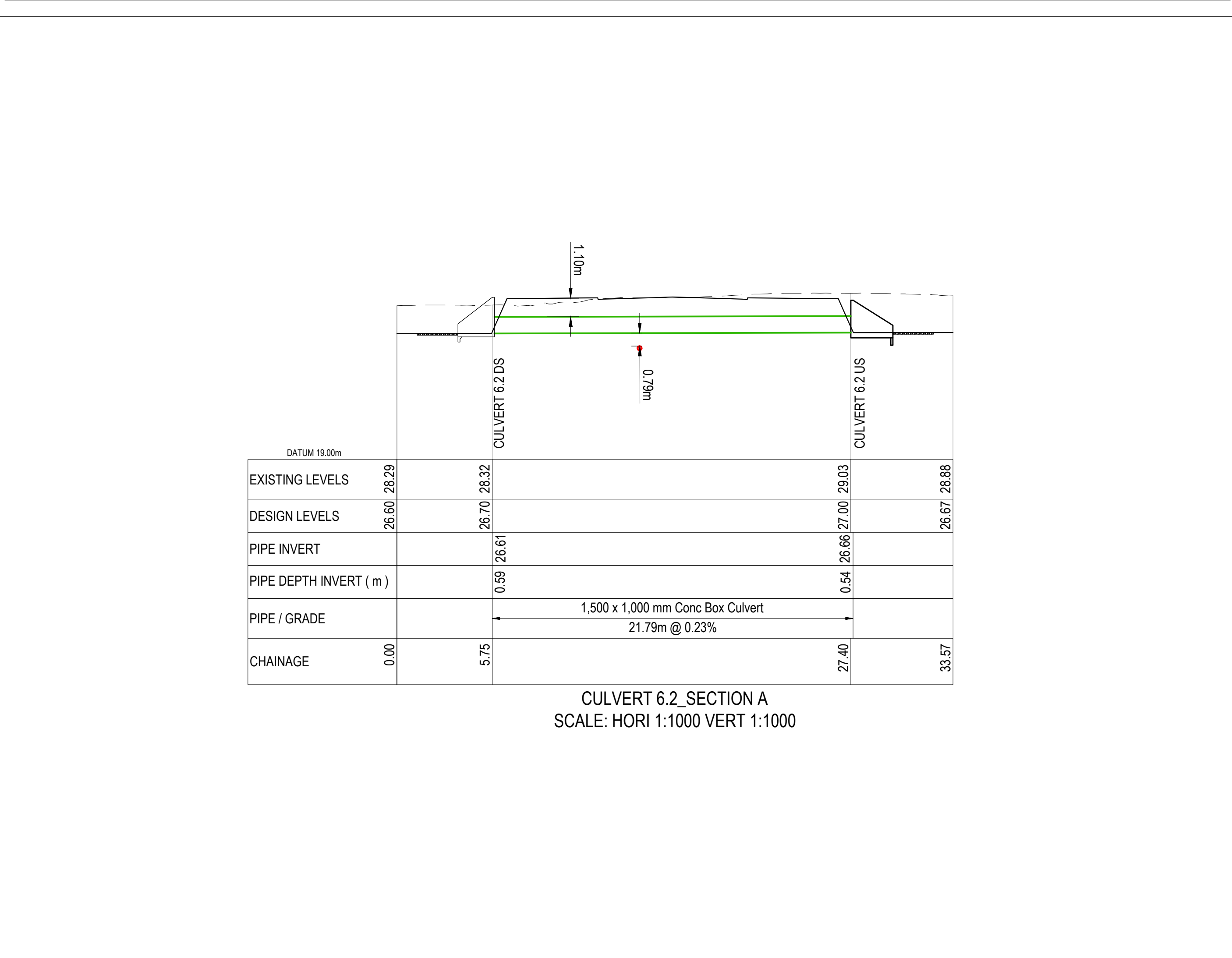
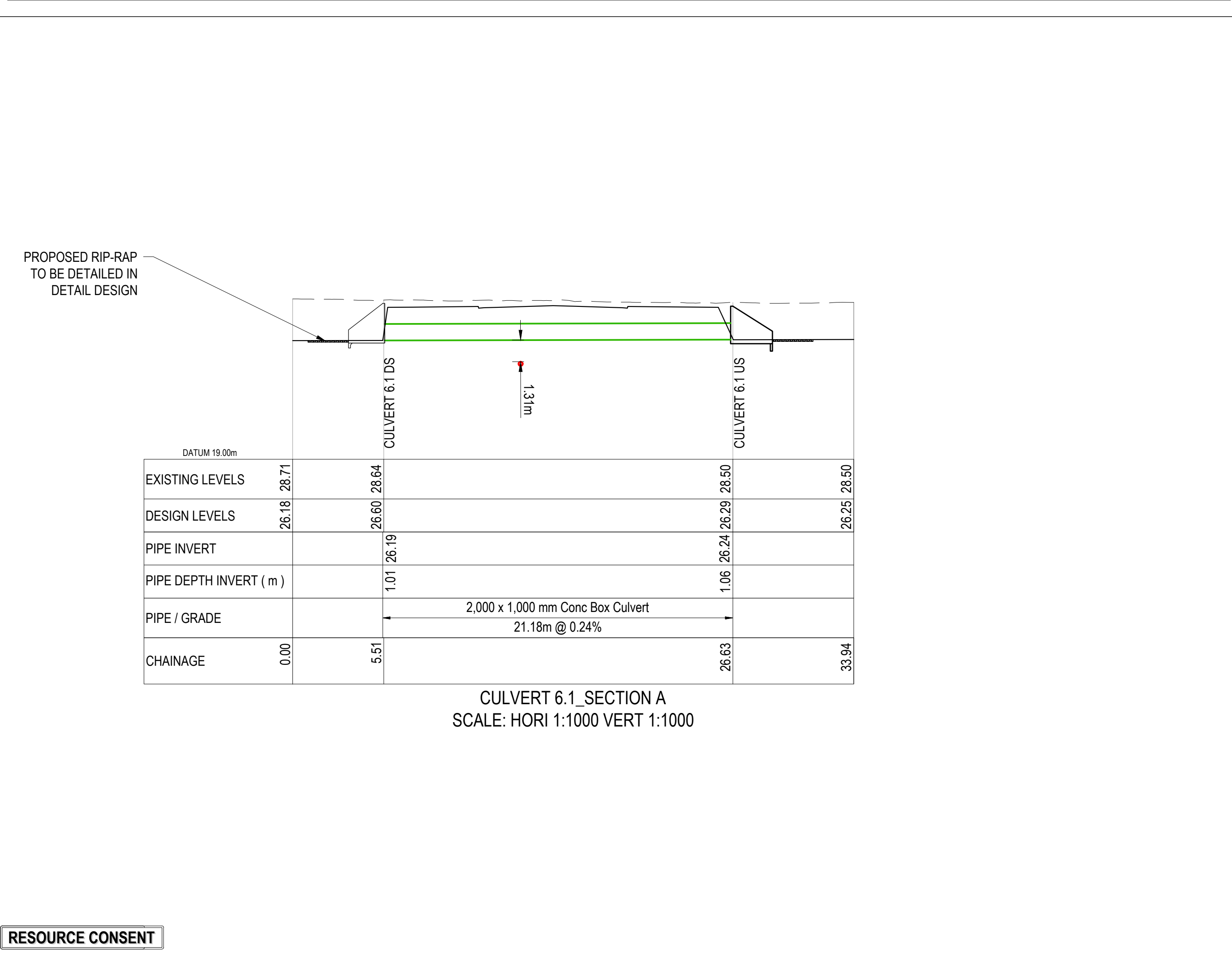
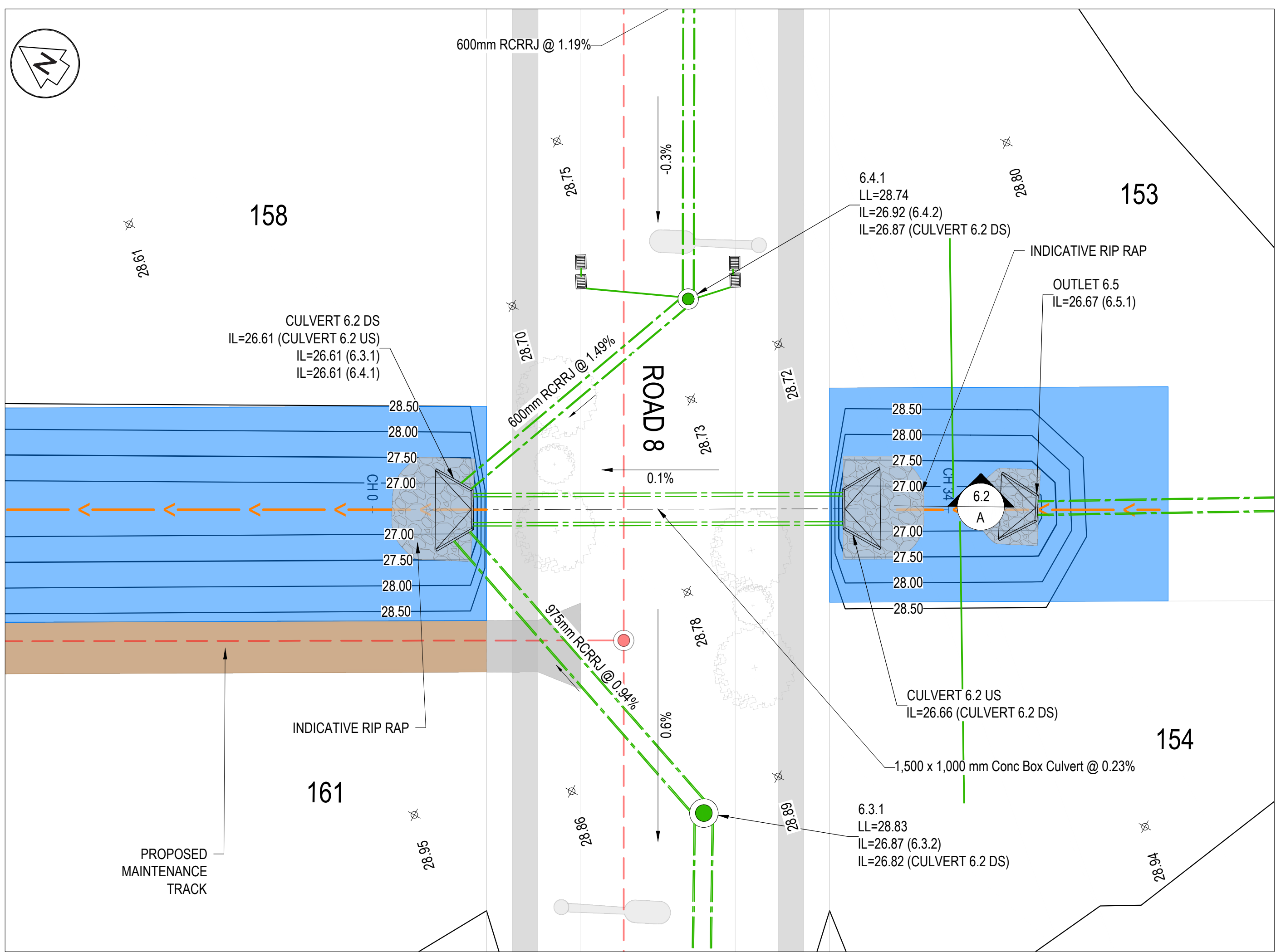
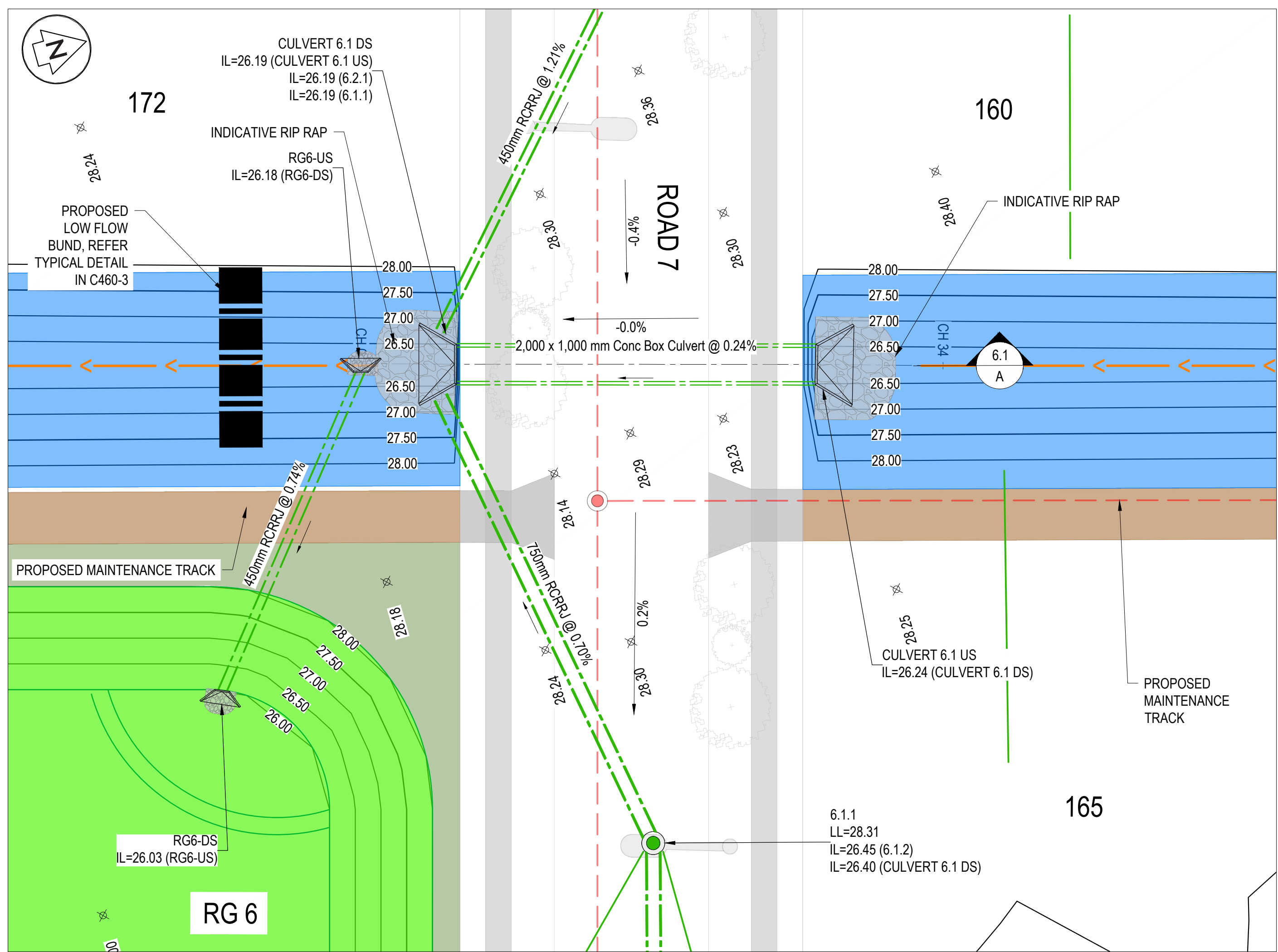
Project no. 180010

Scale 1:200 @ A1

Drawing no. 1801-00-000 @ A1/1

File no. C431-8

Rev **A**



NOTES

- ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/AIAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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LEGEND

- EX STORMWATER
- PR STORMWATER
- PR LOT CONNECTION
- EX/PR SWMH
- PR CULVERT
- PR MODIFIED STREAM
- PR 12.5m WIDE CONVEYANCE CHANNEL
- PR WETLAND
- PR RAINGARDEN
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- PR RD OLFP DIRECTION
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- PR RD SAG/LOW PT
- PR WASTEWATER
- EX/PR SWMH
- PR LOT CONNECTION

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

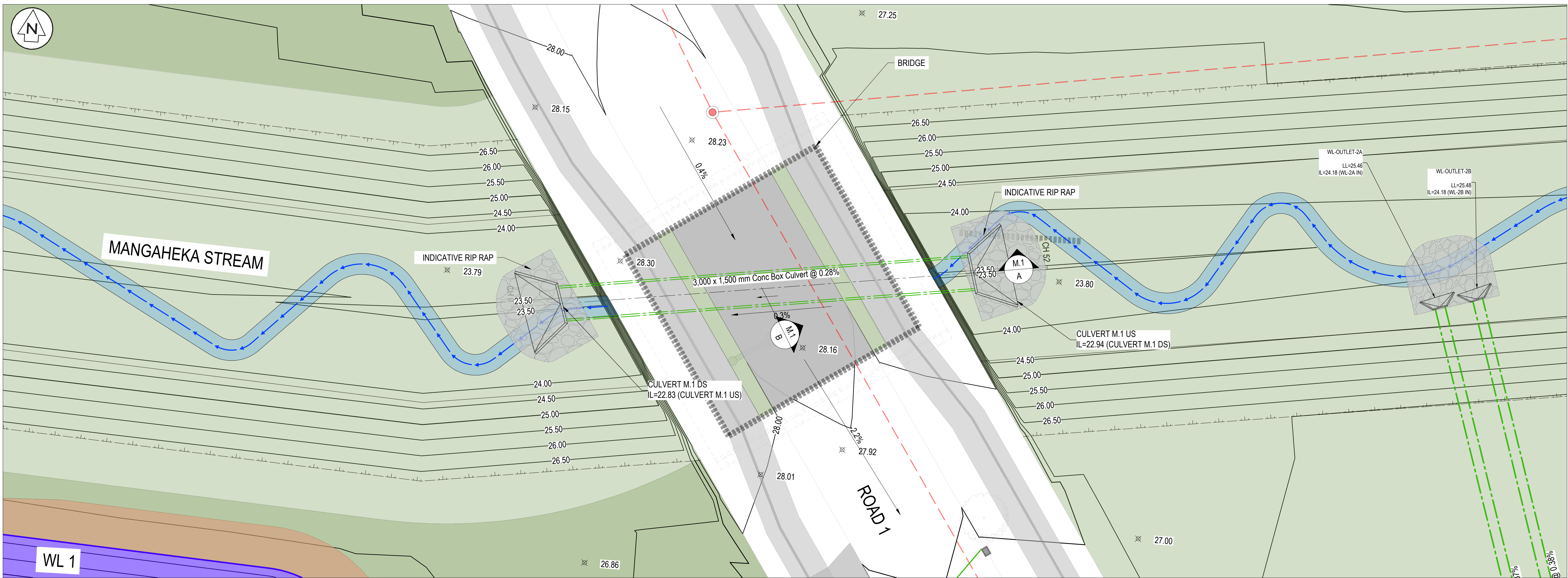
Title: PROPOSED STORMWATER CULVERT PLAN

Project no: 180010

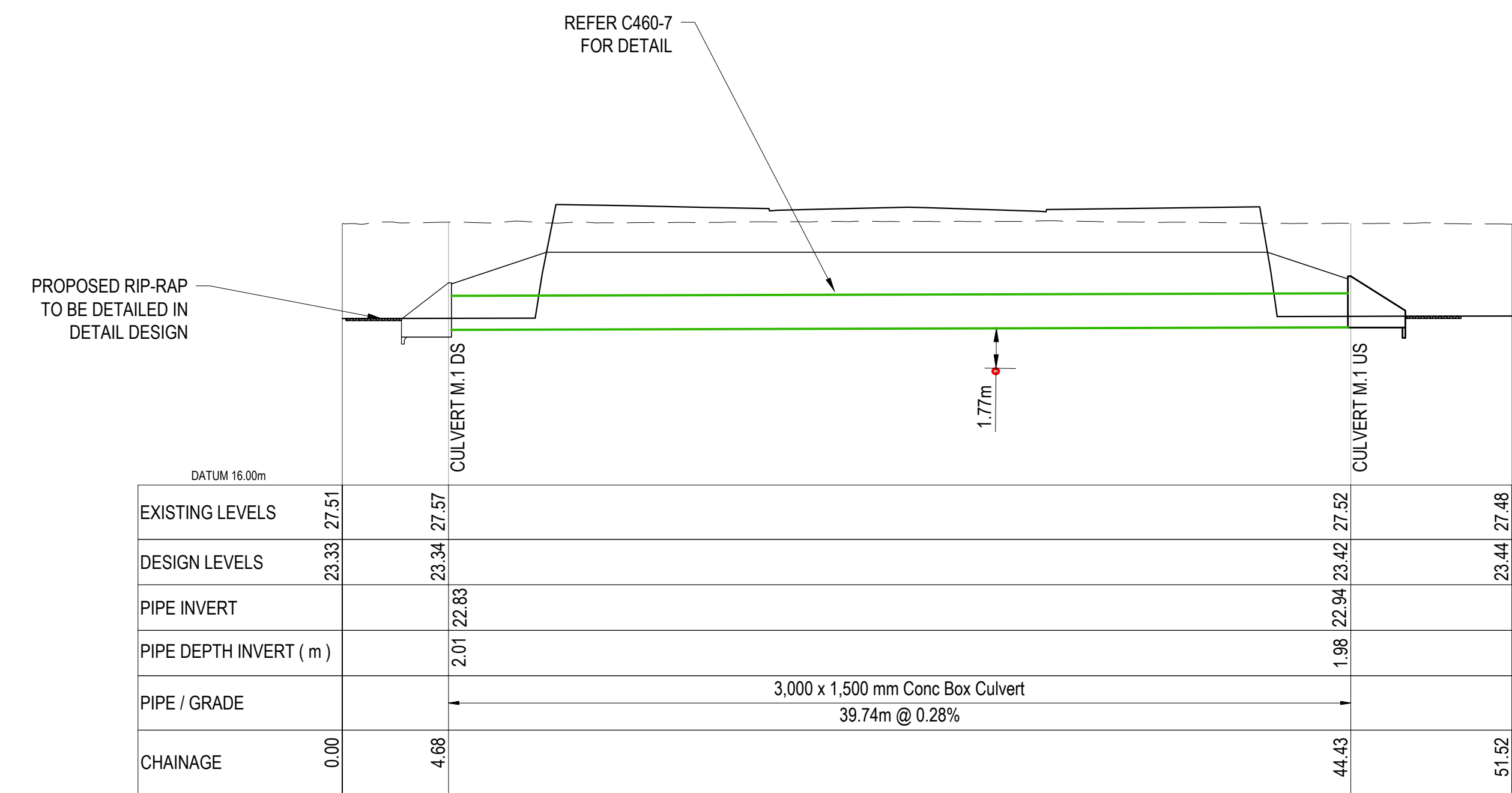
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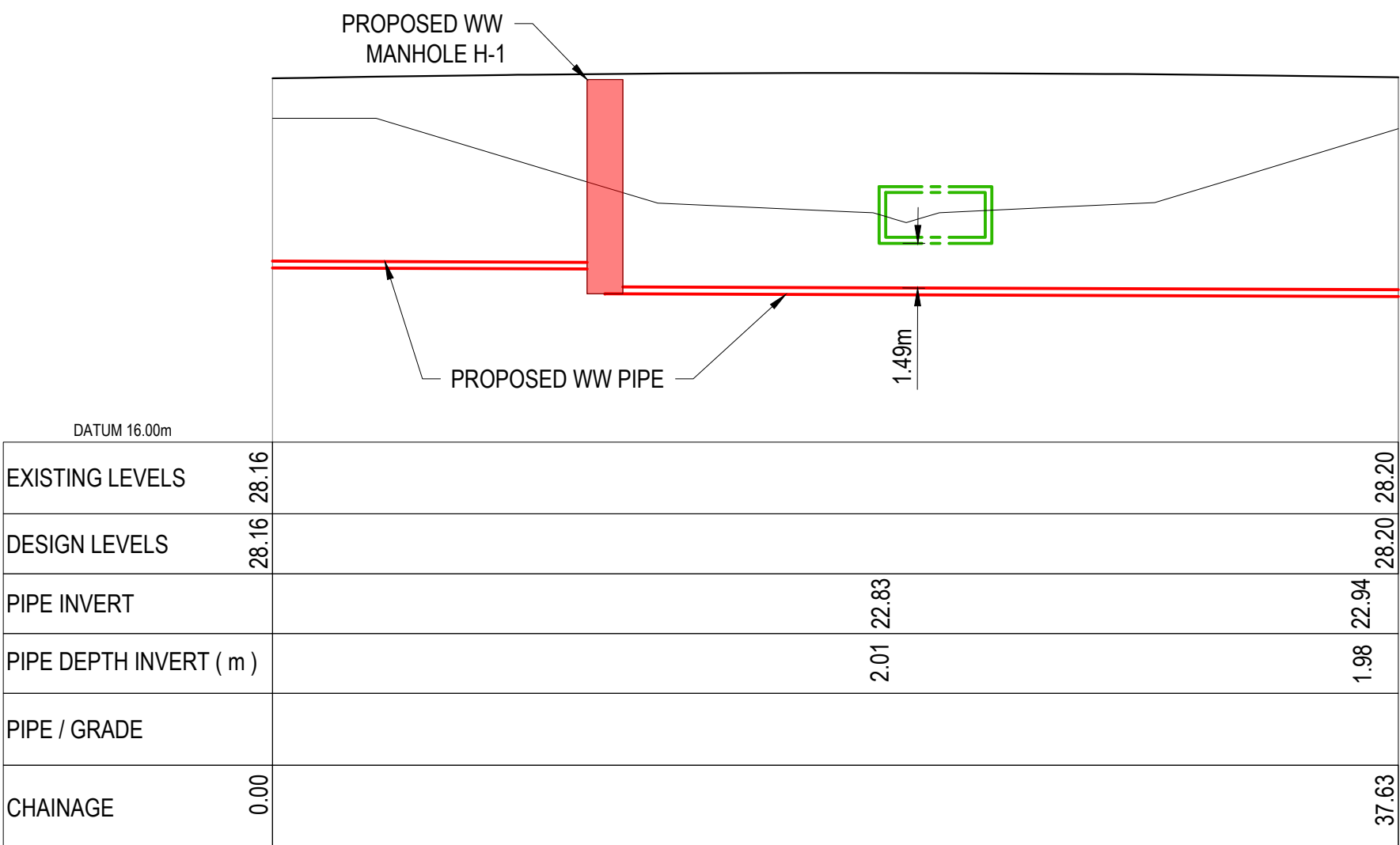
Drawing no: C431-9 Rev: A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH THE WAIKATO DISTRICT COUNCIL/AIAI STANDARD DETAILS AND THE WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATION.
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CULVERT M.1_SECTION A
SCALE: HORI 1:1000 VERT 1:1000



CULVERT M-1_SECTION B
SCALE: HORI 1:1000 VERT 1:1000

- LEGEND
- EX STORMWATER
 - PR STORMWATER
 - PR LOT CONNECTION
 - EX/PR SWMH
 - PR CULVERT
 - PR MODIFIED STREAM
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 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION

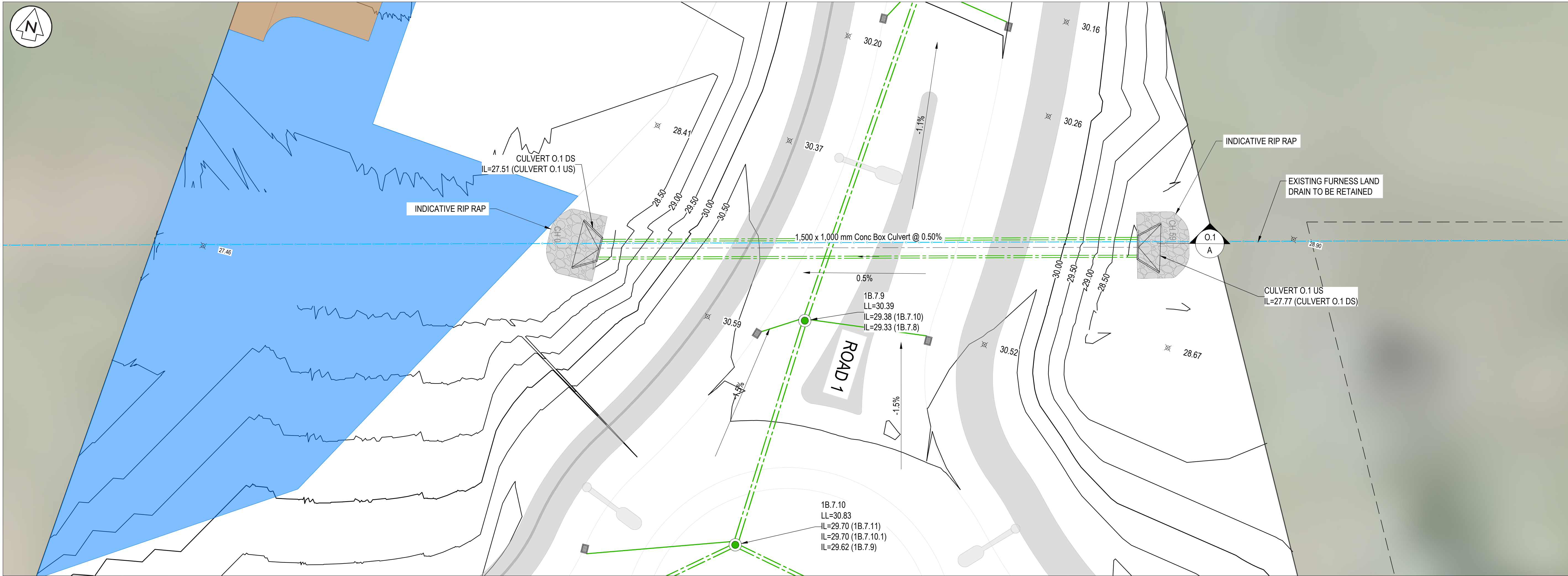
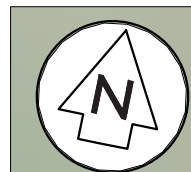
A RESOURCE CONSENT			
Ref	Revisions	By	Date
Survey	MAVEN		10/2025
Design	AF		08/2026
Drawn	KY		08/2026
Checked	KY		08/2026

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5 Queens Road, Epsom
Auckland 1050

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

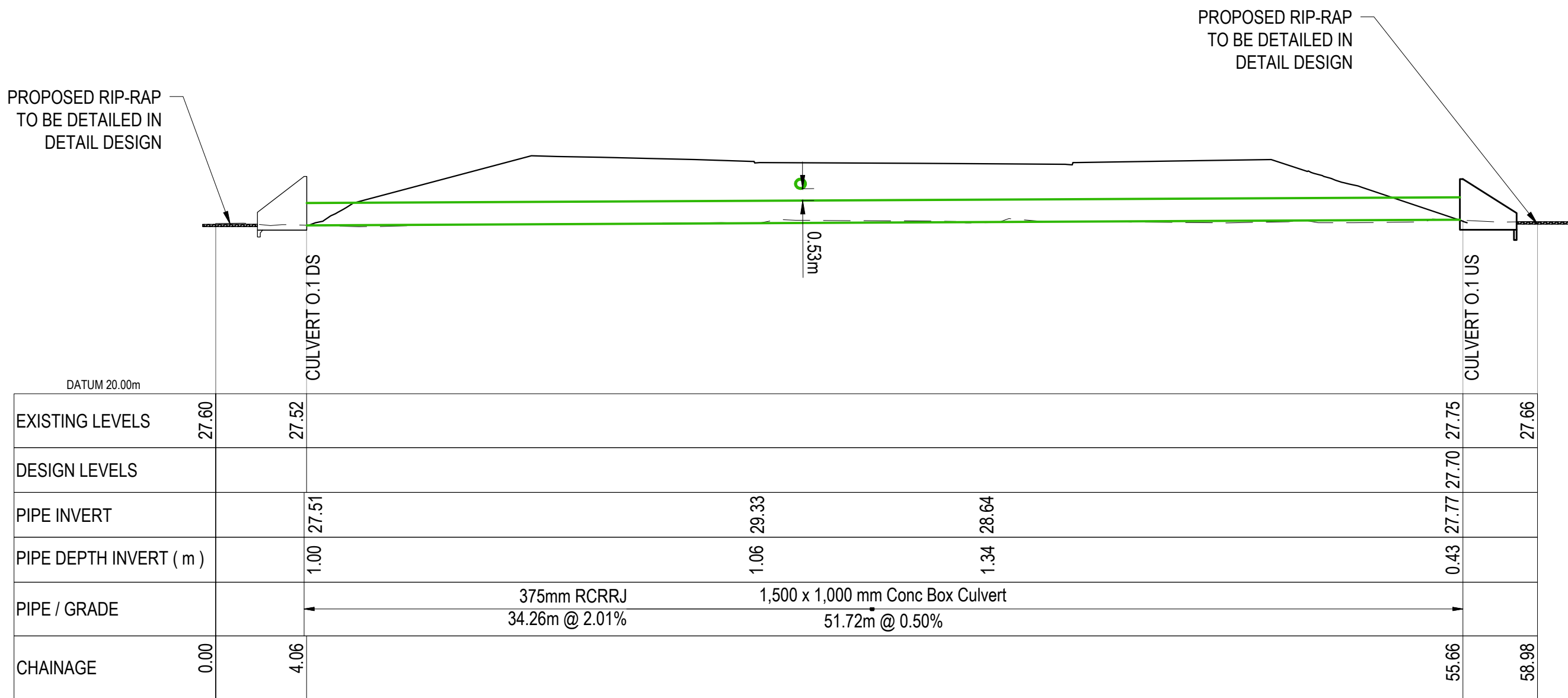
Title
PROPOSED STORMWATER CULVERT PLAN

Project no.	180010
Scale	1:200 @ A1
Cad file	180010-CAD CULVERTS.DWG
Drawing no.	C431-10
Rev	A



- NOTES
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 - PR RD SAG/LOW PT
 - PR WASTEWATER
 - EX/PR SWMH
 - PR LOT CONNECTION



CULVERT O.1 SECTION A
SCALE: HORI 1:1000 VERT 1:1000

Ref	Revisions	By	Date
A	RESOURCE CONSENT	AF	08/2026

Survey	MAVEN	10/2025
Design	AF	08/2026
Drawn	AF	08/2026
Checked	KY	08/2026

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

Title
PROPOSED STORMWATER CULVERT PLAN

Project no.	180010
Scale	1:200 @ A1
Cad file	180010-CAD-CULVERTS.DWG
Drawing no.	C431-12
Rev	A