



Elevations Table

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-1.00	-0.50	2.15	Red
2	-0.50	0.00	19.12	Yellow
3	0.00	0.50	1.88	Green

- NOTES
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- Legend
- PR BDY
 - EX ABBUTALS
 - OXBOW WETLANDS ALONG THE WAITOA RIVER
 - PASTURE WETLANDS ALONG THE WAITOA RIVER
 - EDGE OF RIVER
 - PR EASEMENTS
 - CULVERT
 - CROSS BRIDGE
 - POSSIBLE FUTURE PEDESTRIAN PATH

Rev	Description	By	Date
A	FAST TRACK APP	MKS	11/2025
Survey	MAVEN		05/2024
Design	MKS		11/2025
Drawn	MKS		11/2025
Checked	DJM		11/2025

Project
**ASHBOURNE
 RESIDENTIAL
 FOR
 MATAMATA
 DEVELOPMENTS LTD**

Title
**PROPOSED
 CHANNEL PLAN
 WITH ECOLOGY SHOWN**

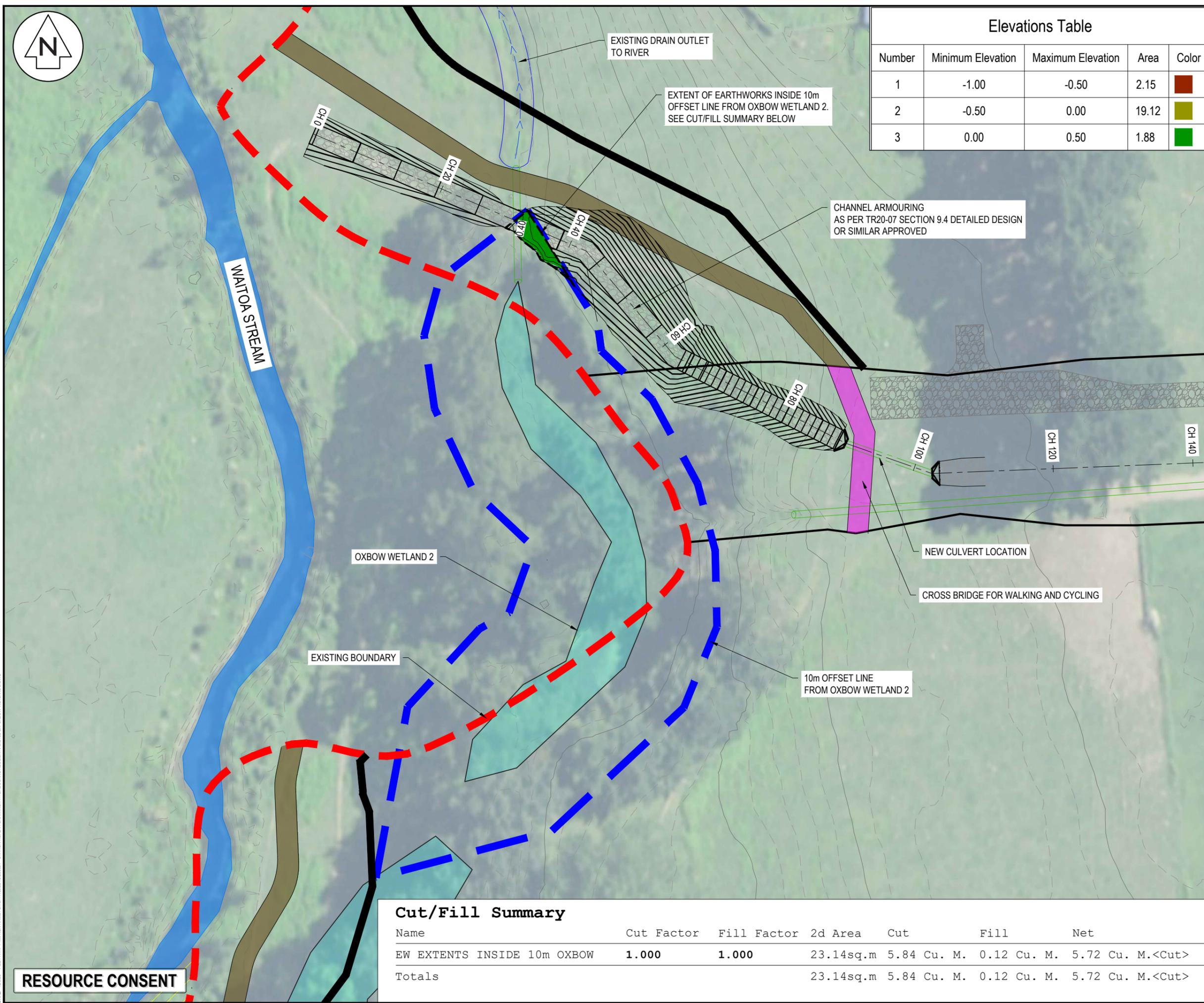
Project no.	289001
Scale	1:500 @ A3
Cad file	C152-EW OXBOW WETLAND 2.DWG
Drawing no.	C152
Rev	A

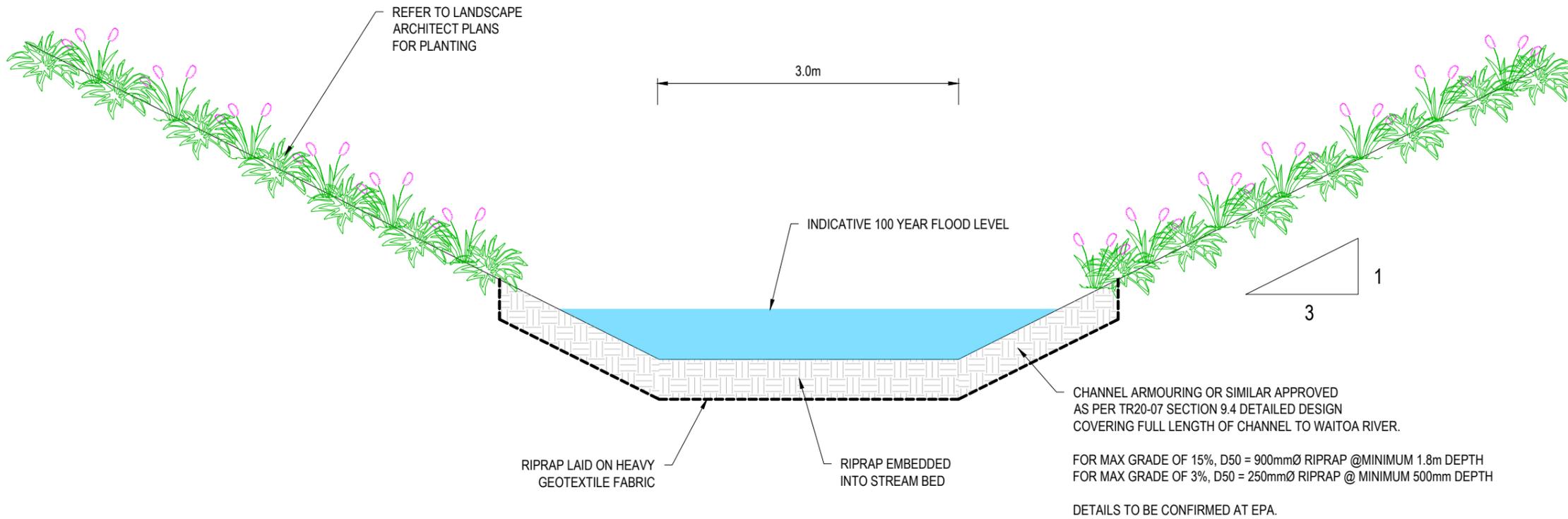
Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
EW EXTENTS INSIDE 10m OXBOW	1.000	1.000	23.14sq.m	5.84 Cu. M.	0.12 Cu. M.	5.72 Cu. M.<Cut>
Totals			23.14sq.m	5.84 Cu. M.	0.12 Cu. M.	5.72 Cu. M.<Cut>

RESOURCE CONSENT

DATE: 12/25 FILE PATH: F:\MAVEN\HAMILTON\6 PROJECTS\289001 - STATION ROAD\ DRAWING: ASHBOURNE RESIDENTIAL\C152-EW OXBOW WETLAND 2.DWG



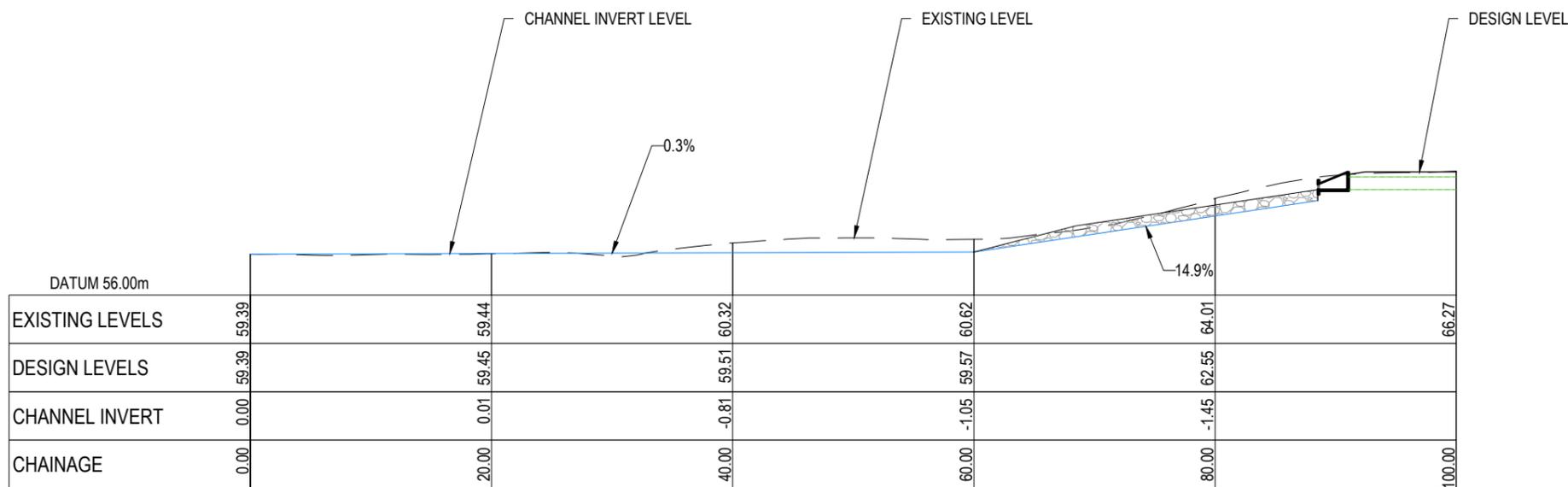


A TYPICAL CROSS SECTION - CHANNEL ARMOURING
SCALE 1:50 @ A3

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Legend

	EX GROUND LEVEL
	PROP GROUND LEVEL
	PROP CHANNEL LEVEL



LONGSECTION - CHANNEL ARMOURING
SCALE 1:500 HORI & 1:500 VERTICAL @ A3

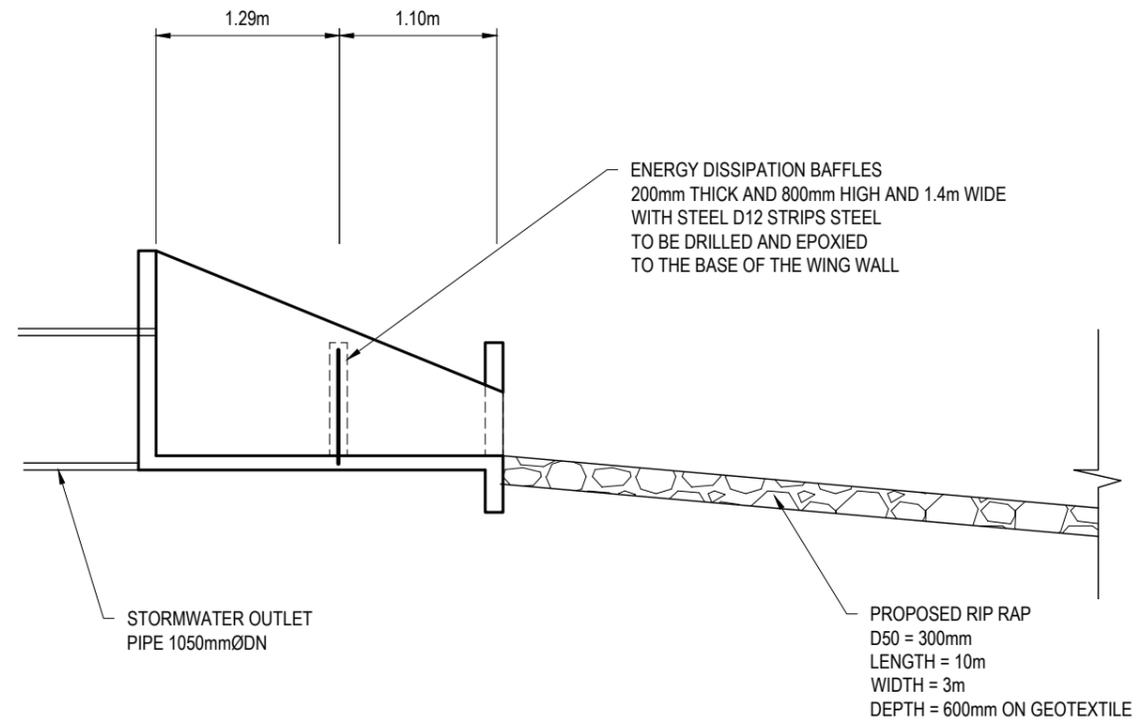
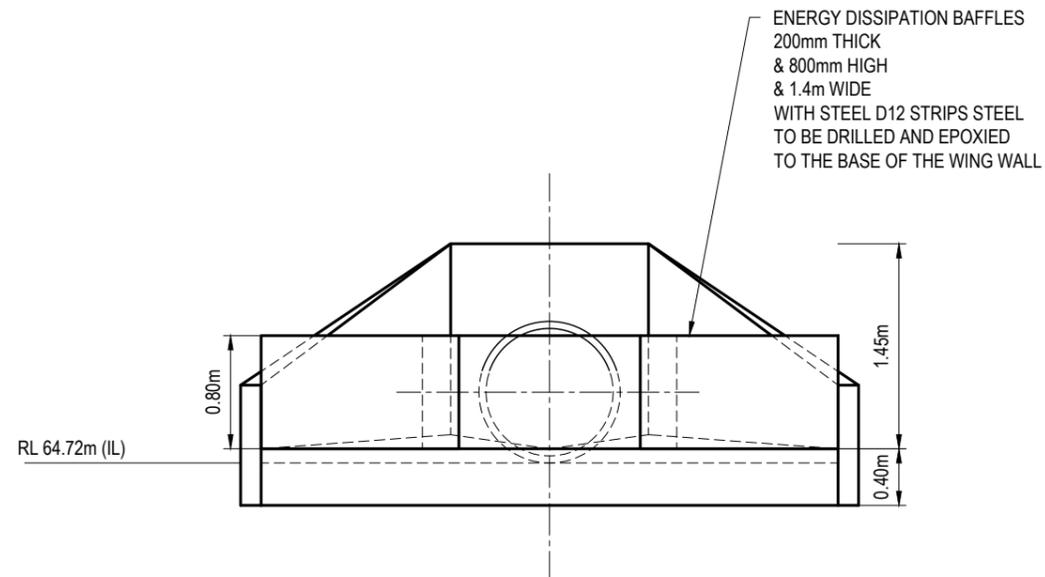
B	FAST TRACK APP	MKS	12/2025
A	FAST TRACK APP	MKS	11/2025
Rev	Description	By	Date
	Survey	MAVEN	05/2024
	Design	MKS	11/2025
	Drawn	MKS	11/2025
	Checked	DJM	11/2025

Project
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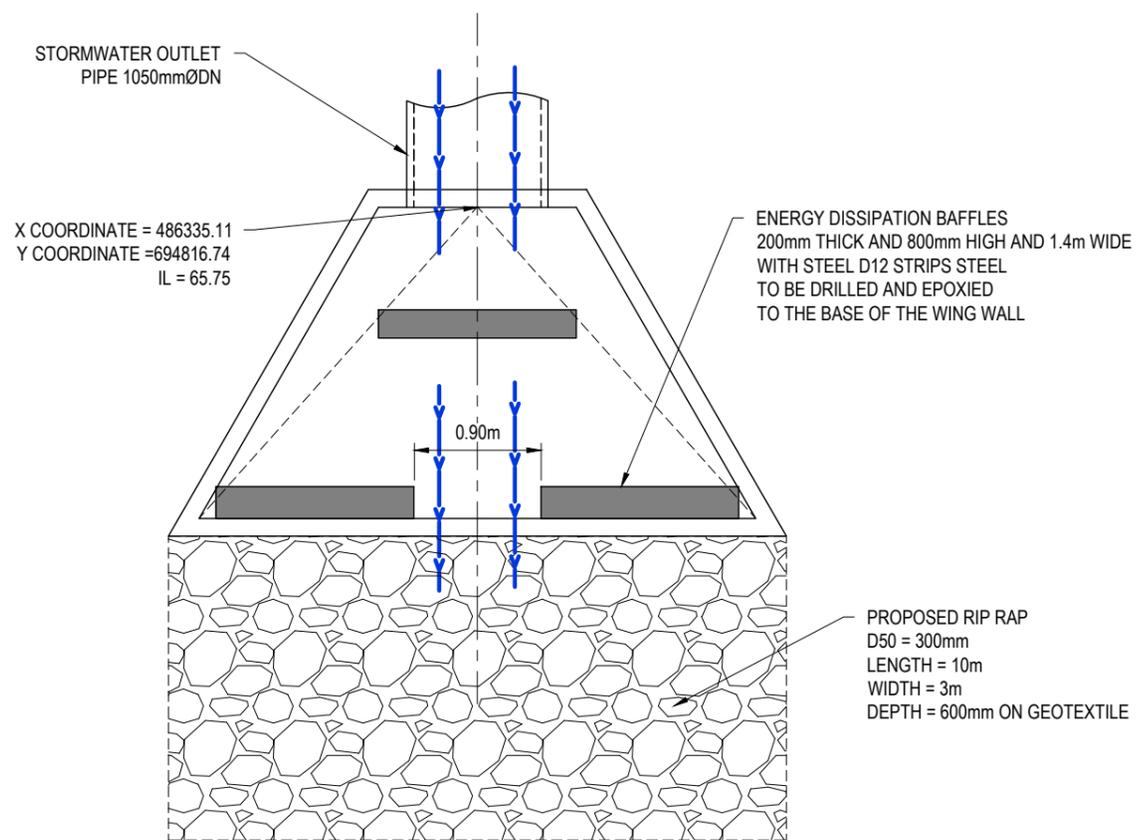
Title
**PROPOSED
CHANNEL ARMOURING
DETAILS**

Project no.	289001
Scale	AS SHOWN
Cad file	C152-EW OXBOW WETLAND 2.DWG
Drawing no.	C152-1
Rev	B

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CULVERT

OUTLET STRUCTURE - ROCK RIPRAP

Pipe diameter =	0.900 m	ks=	1.5
Pipe gradient =	0.10 %		
Velocity =	3.77 m/s		
Froude Number Fo =	1.27		
Rock diameter =	286 mm	=> Use	300 mm (min 2x Dia thick)
Outfall width =	2.7 m	=> Use	3.00 m
Outfall length =	8.79 m	=> Use	9.00 m

Area	0.64
Q	2.4
V	3.8

SPILLWAY

OUTLET STRUCTURE - ROCK RIPRAP

equivalent depth	0.370 m	ks=	1.5
Pipe gradient =	20.00 %		
Velocity =	3.70 m/s		
Froude Number Fo =	1.94		
Rock diameter =	180 mm	=> Use	200 mm (min 2x Dia thick)
Outfall width =	1.11 m	=> Use	1.20 m
Outfall length =	4.77 m	=> Use	5.00 m

Area	1.46
Q	5.4
V	3.7

A	FAST TRACK APP	MKS	12/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		05/2024
Design	MKS		12/2025
Drawn	MKS		12/2025
Checked	DJM		12/2025



Project
**ASHBOURNE
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Title
**PROPOSED
 WINGWALL OUTLET
 DETAILS**

Project no.	289001
Scale	N.T.S.
Cad file	C152-EW OXBOW WETLAND 2.DWG
Drawing no.	C152-2
Rev	A

RESOURCE CONSENT

DATE: 12/25 FILEPATH: F:\MAVEN\HAMILTON\6 PROJECTS\289001 - STATION ROAD\DRAWING\1 - ASHBOURNE RESIDENTIAL\C152-EW WETLAND 2.DWG