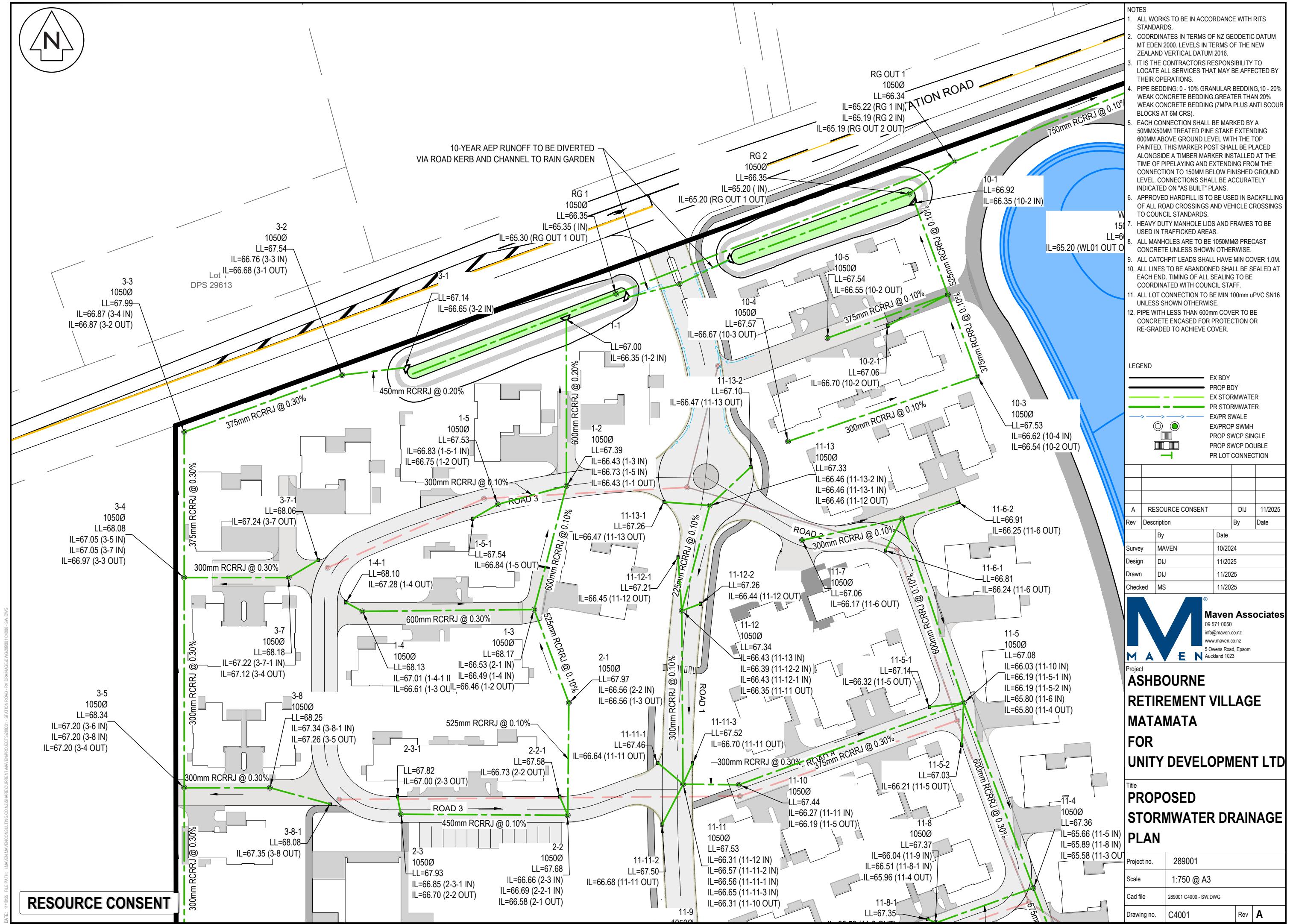
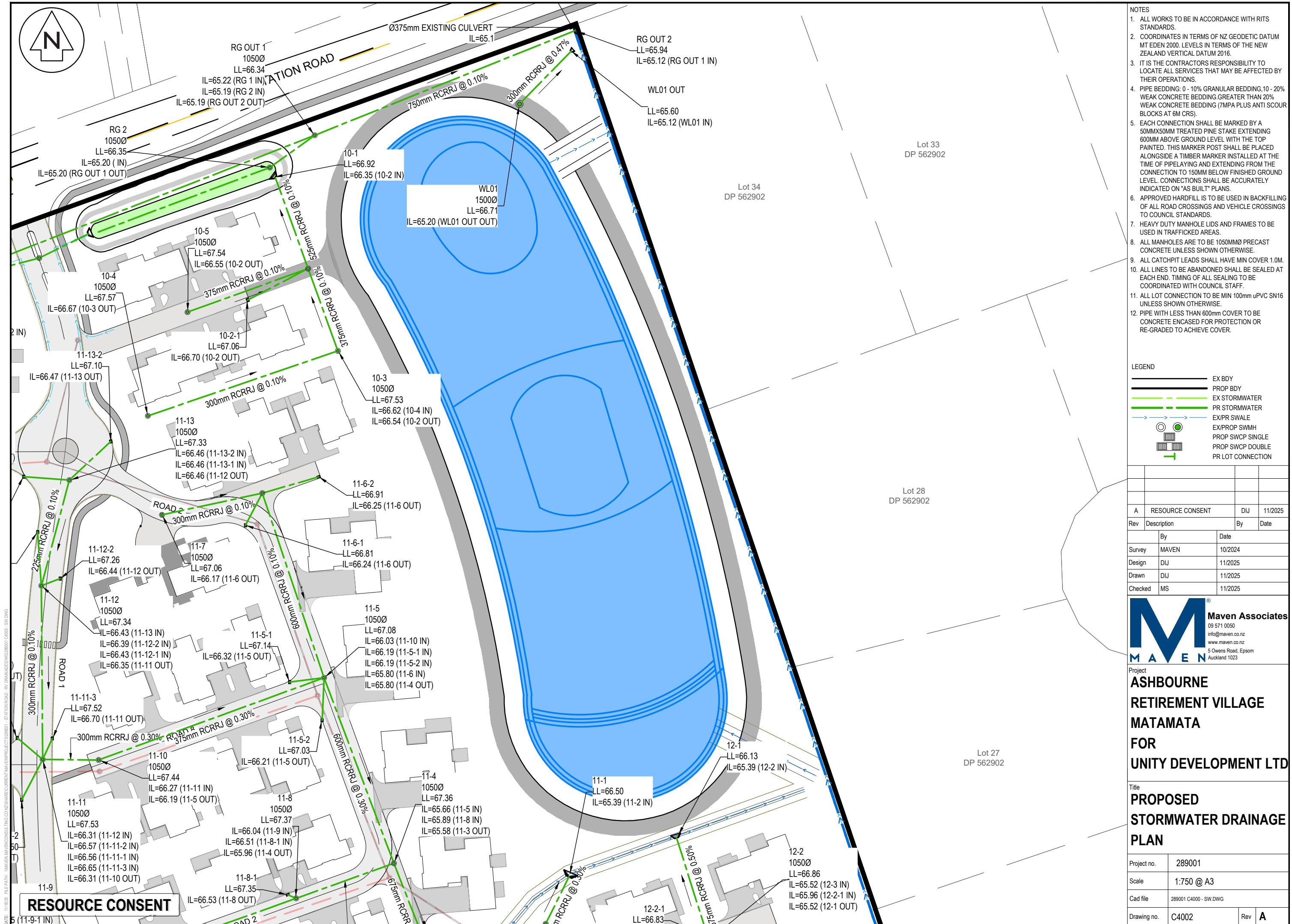


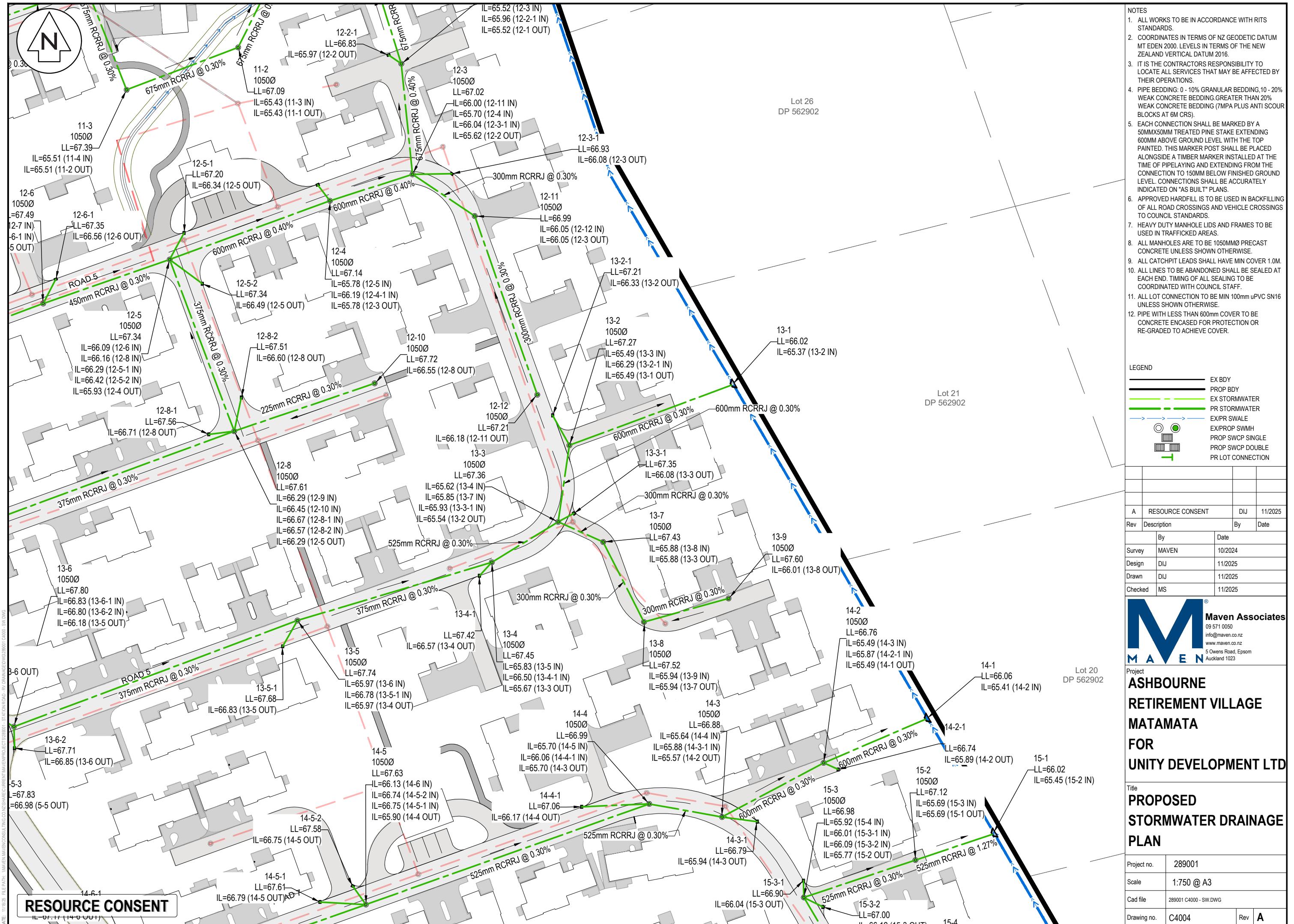


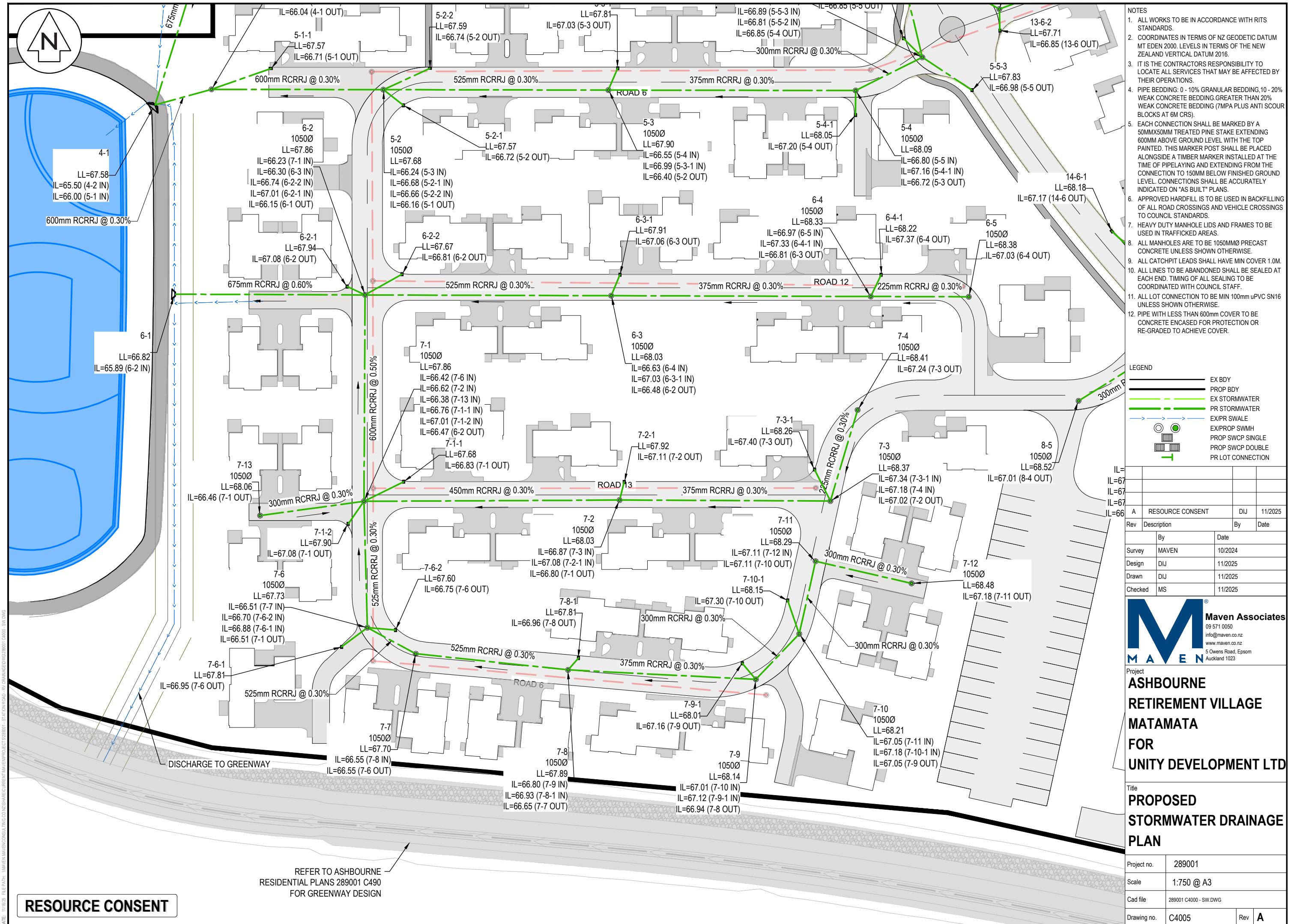
RESOURCE CONSENT

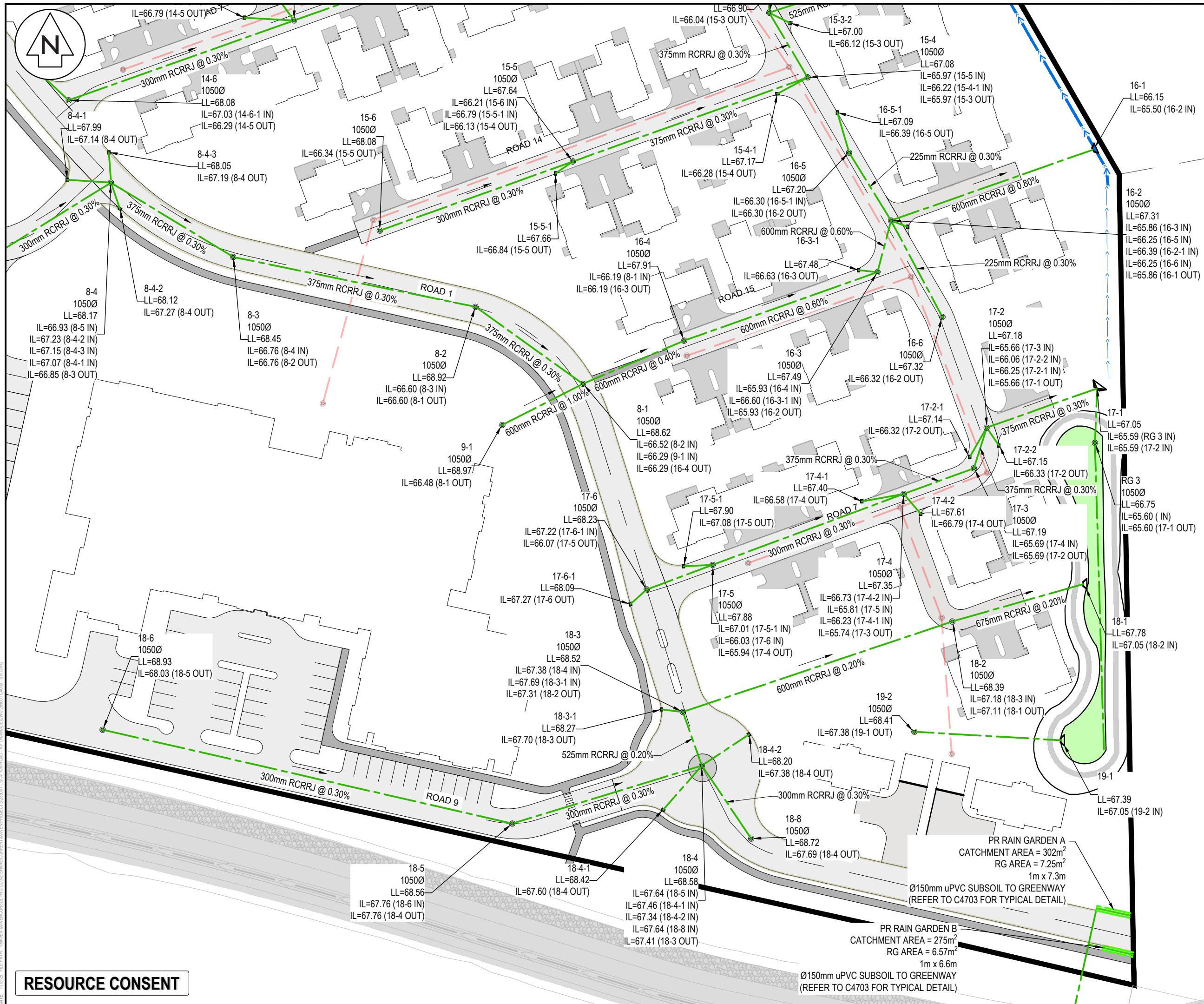


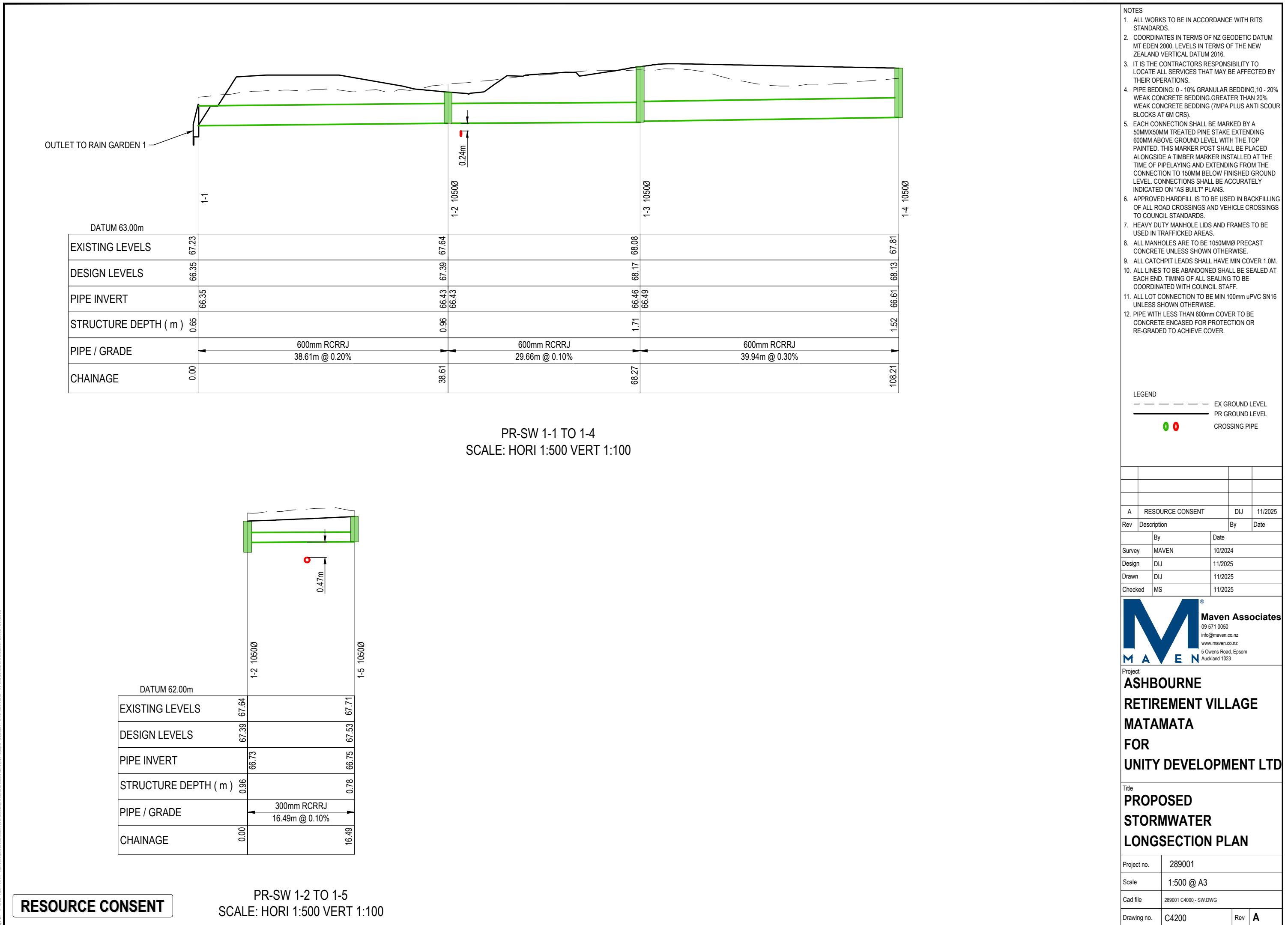


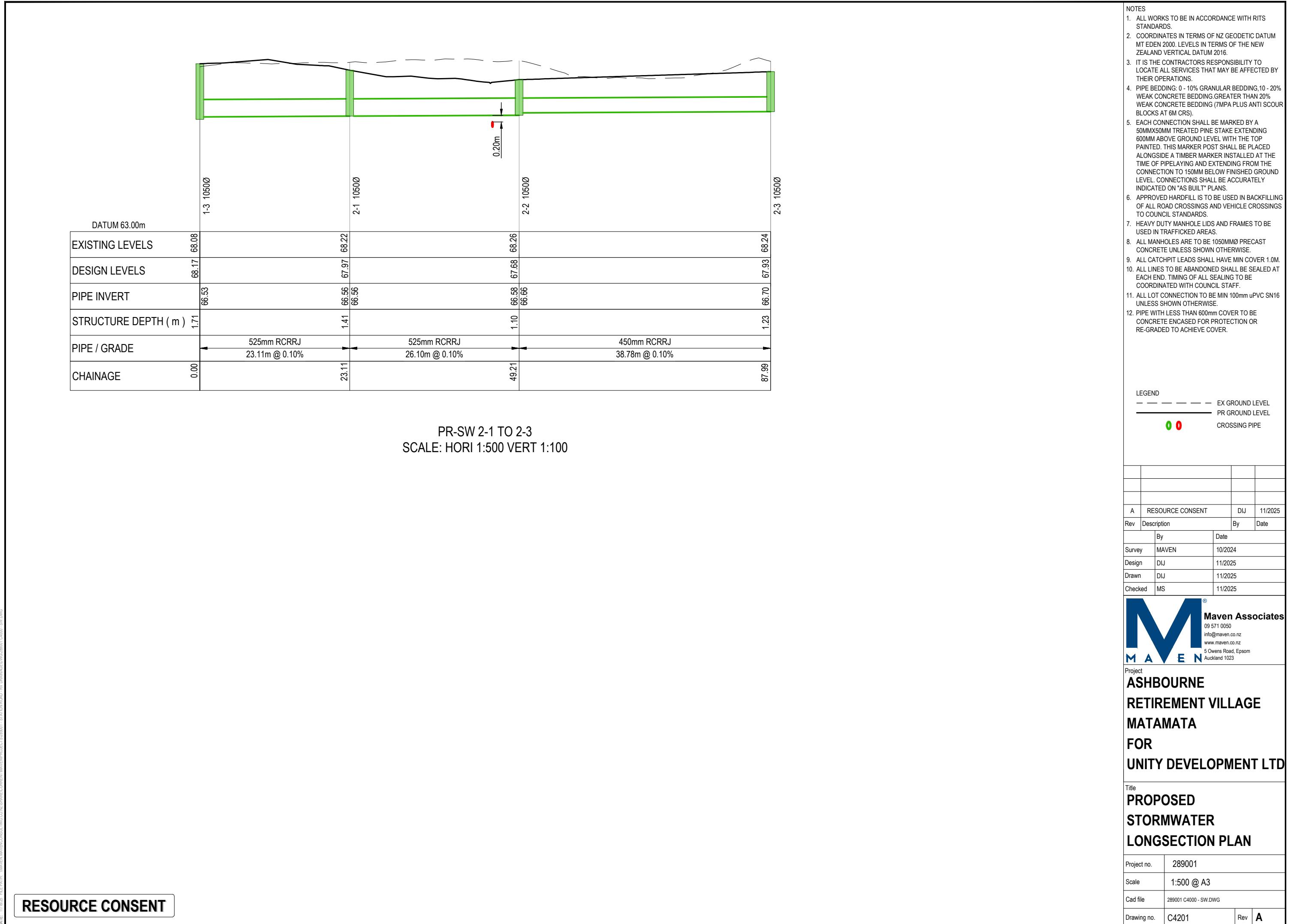


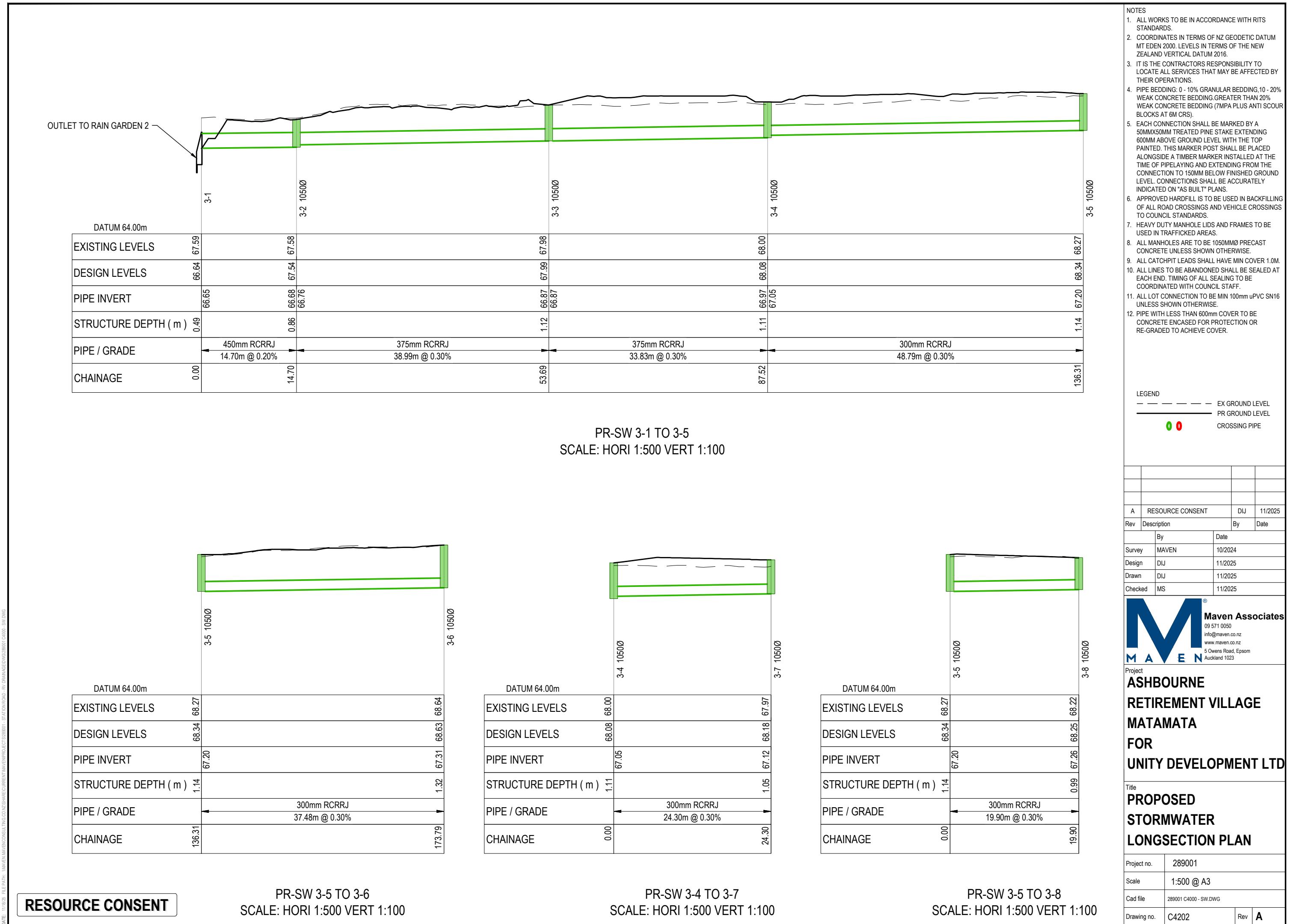


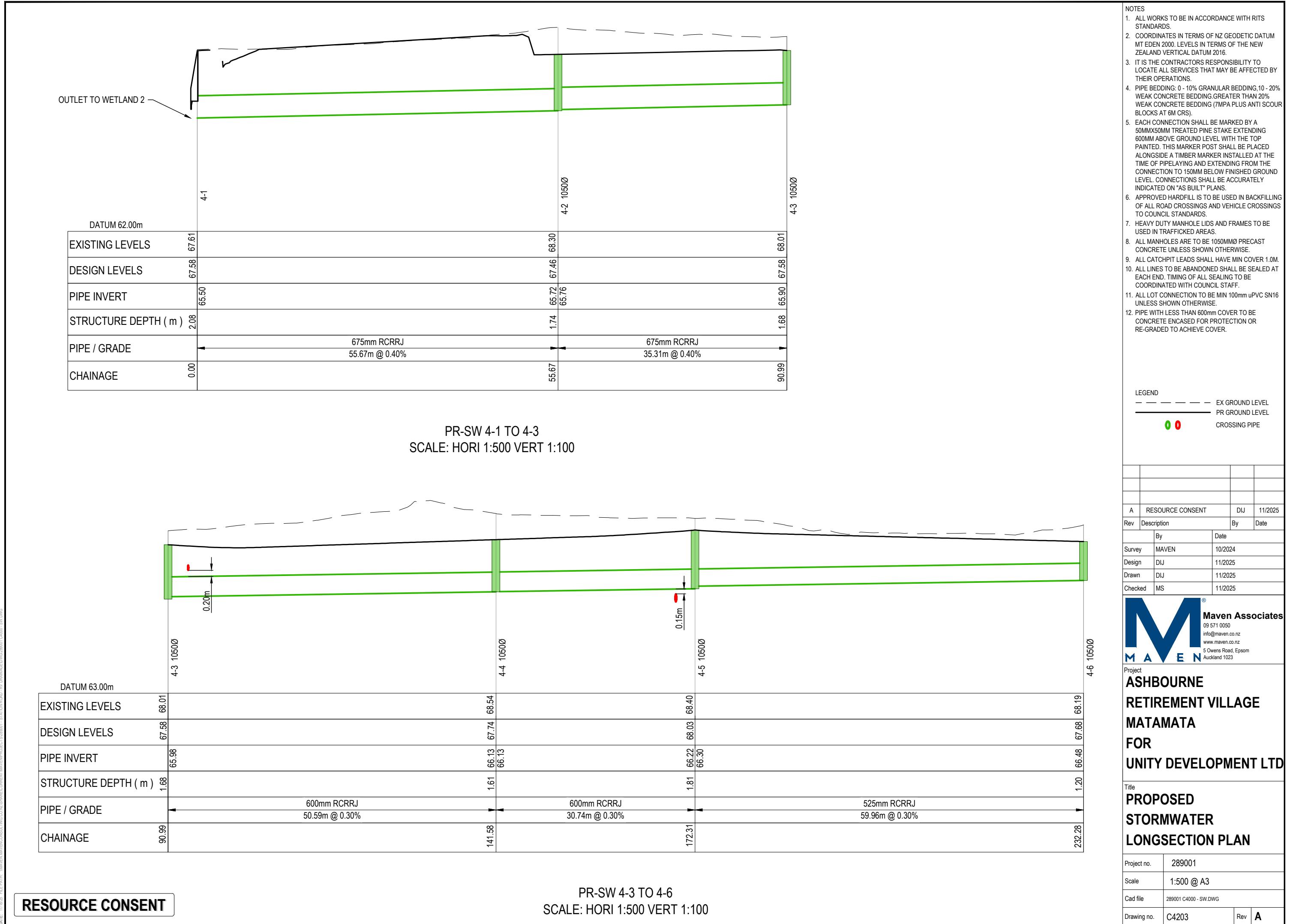


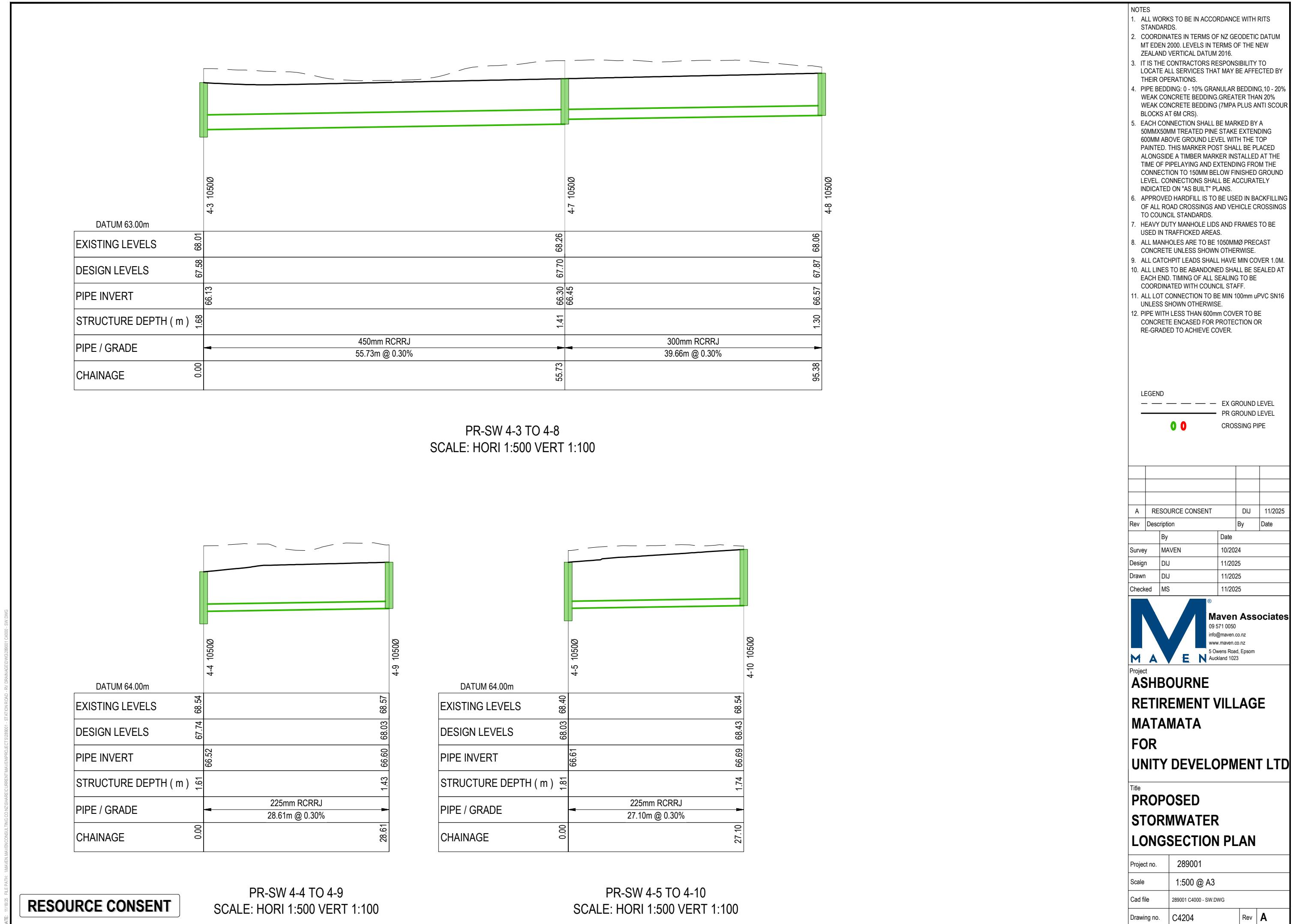


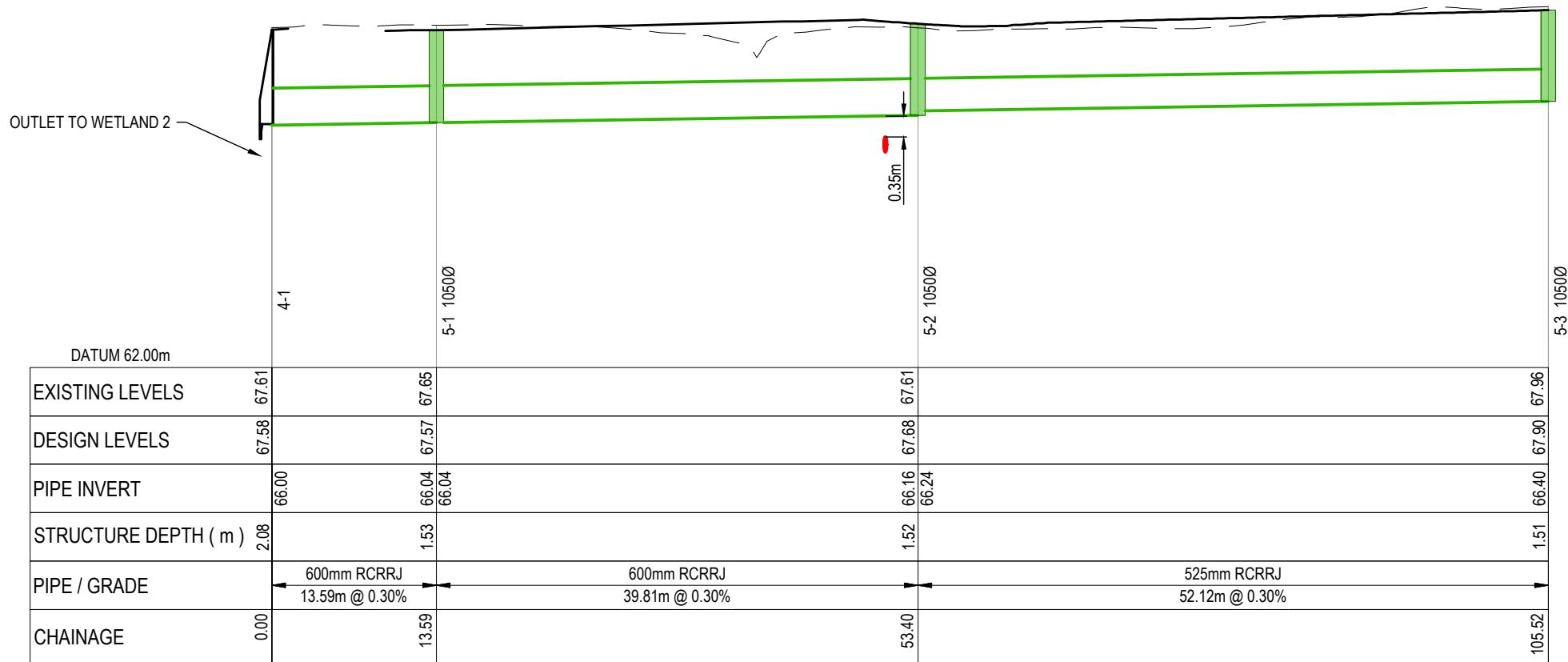












PR-SW 5-1 TO 5-3
SCALE: HORI 1:500 VERT 1:100

PR-SW 5-3 TO 5-5
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

NOTES

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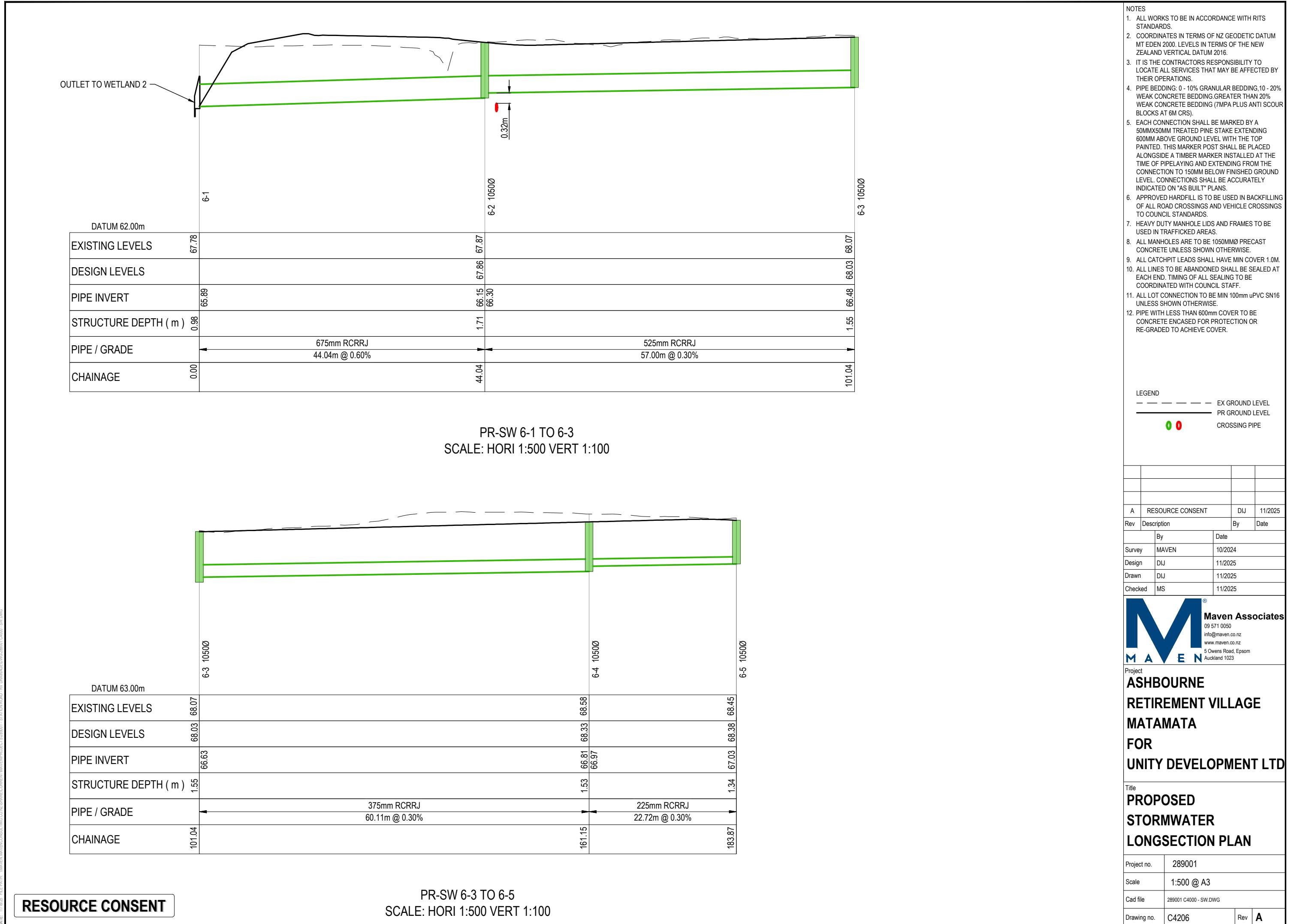
LEGEND
— — — — — EX GROUND LEVEL
— — — — — PR GROUND LEVEL
— — — — — CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

Title
**PROPOSED
STORMWATER
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C4000 - SW.DWG		
Drawing no.	C4205	Rev	A



NOTES

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LEGEND

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	Survey	MAVEN	10/2024
	Design	DIJ	11/2025
	Drawn	DIJ	11/2025
	Checked	MS	11/2025

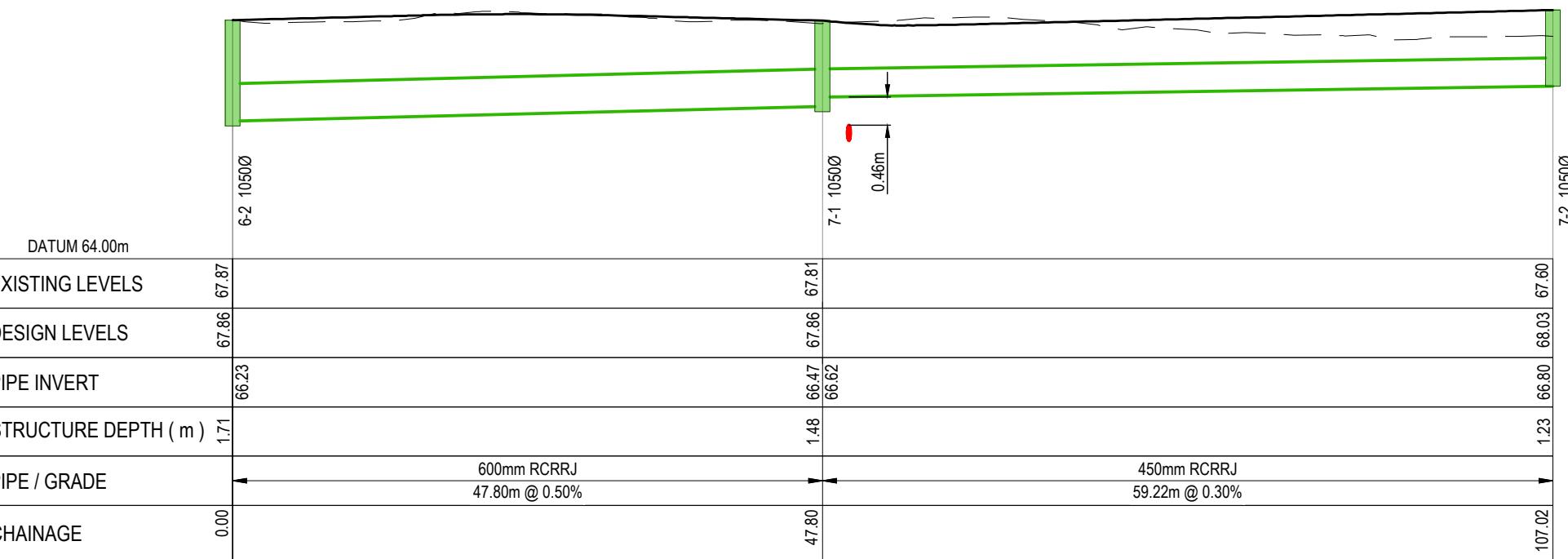
Maven Associates
09 571 0050
info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

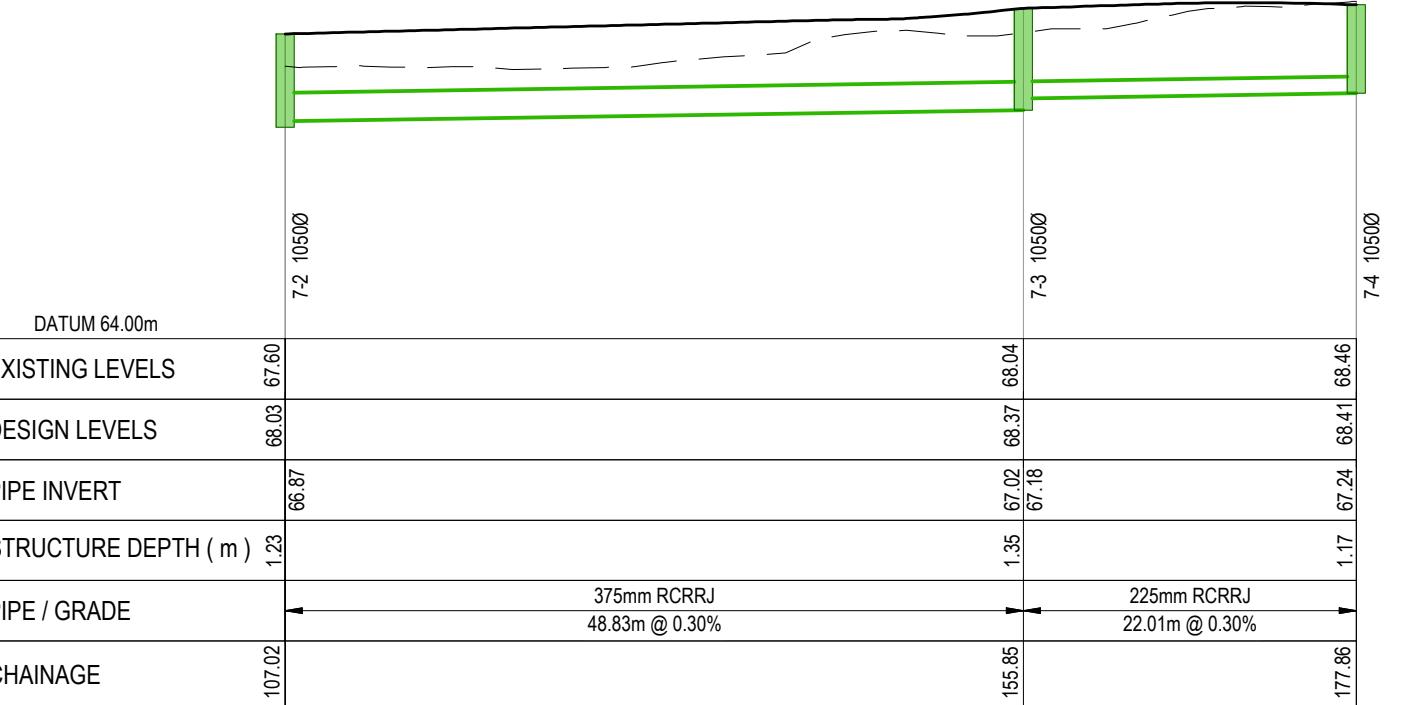
Title
PROPOSED
STORMWATER
LONGSECTION PLAN

Project no.	289001
Scale	1:500 @ A3
Cad file	289001 C4000 - SW.DWG
Drawing no.	C4207

Rev A

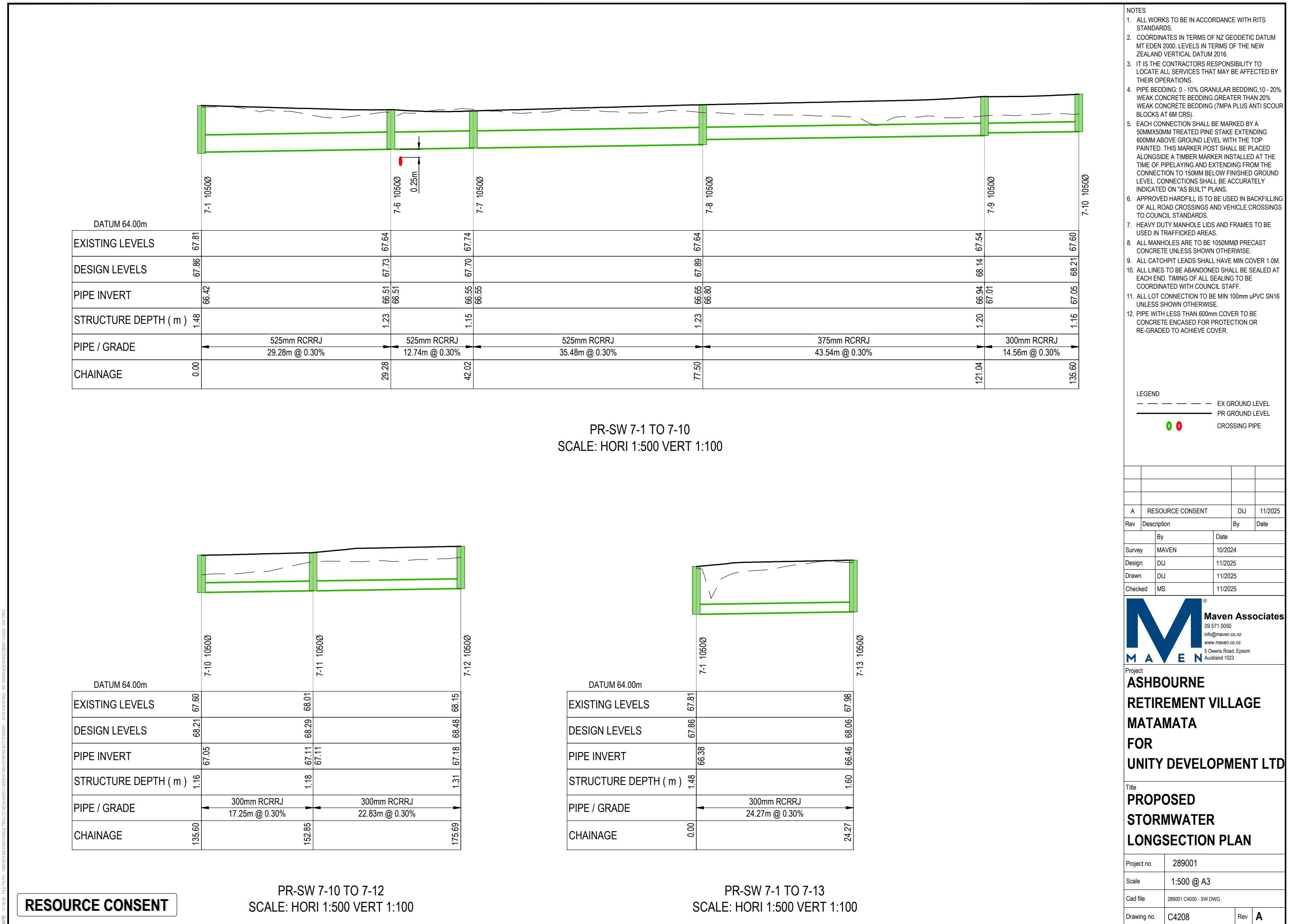


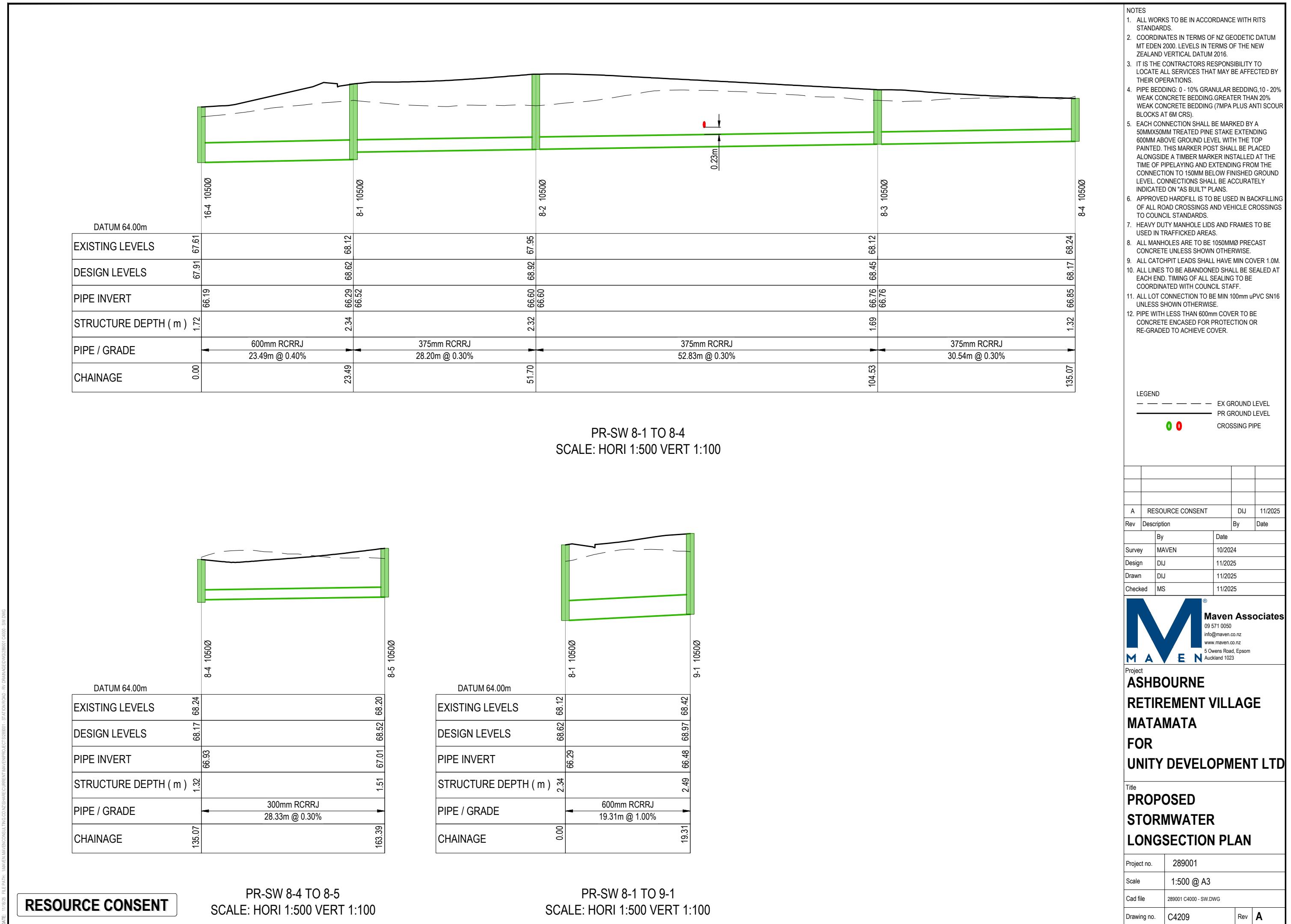
PR-SW 6-2 TO 7-2
SCALE: Hori 1:500 Vert 1:100

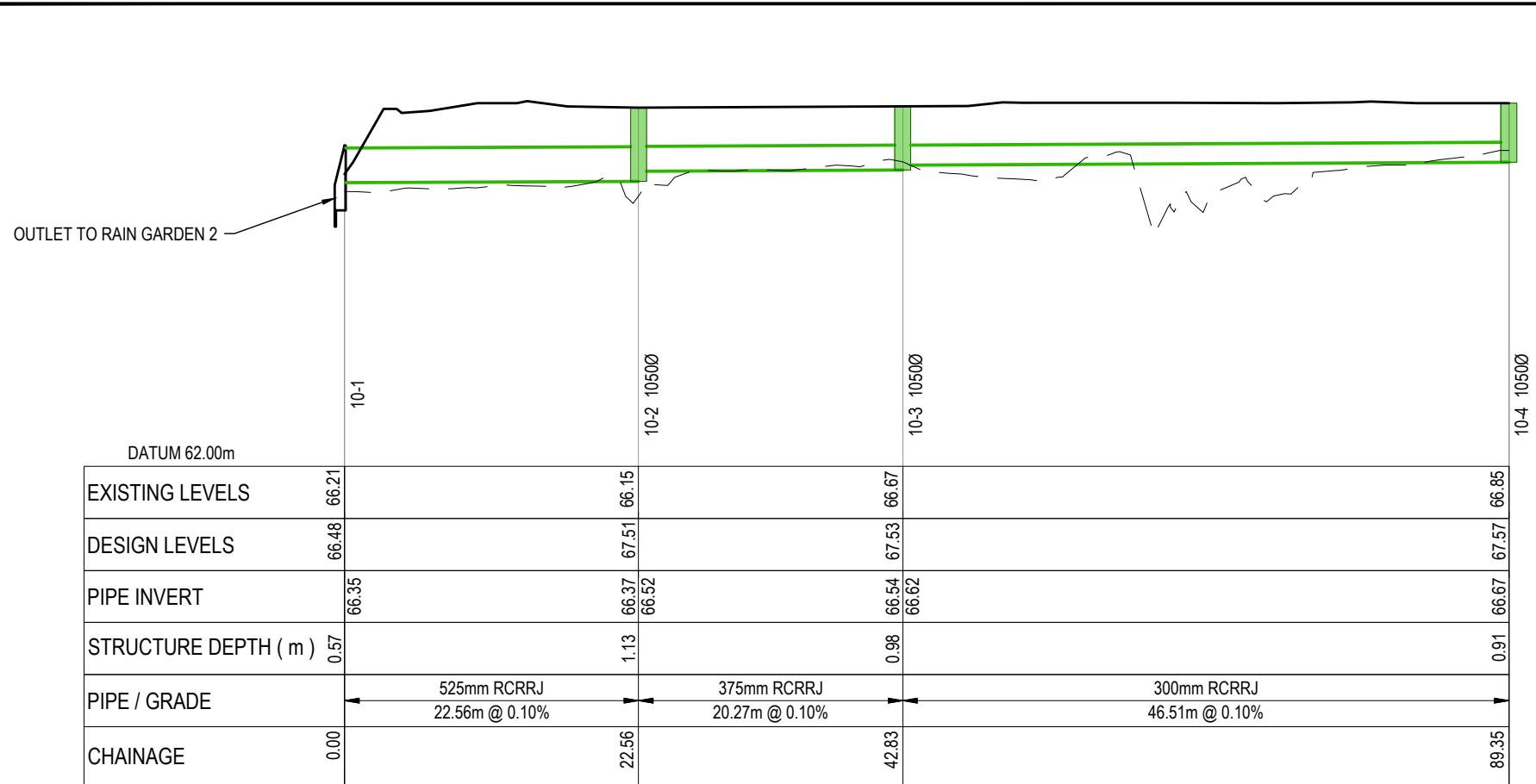


PR-SW 7-2 TO 7-4
SCALE: Hori 1:500 Vert 1:100

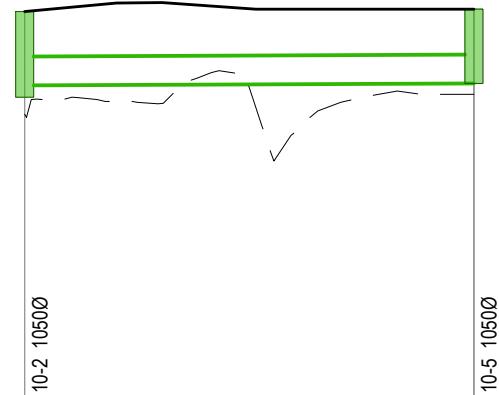
RESOURCE CONSENT







PR-SW 10-1 TO 10-4
SCALE: Hori 1:500 Vert 1:100



DATUM 62.00m		
EXISTING LEVELS	66.15	
DESIGN LEVELS	67.51	
PIPE INVERT	66.52	
STRUCTURE DEPTH (m)	1.13	
PIPE / GRADE	375mm RCRRJ 29.72m @ 0.10%	
CHAINAGE	0.00	29.72

PR-SW 10-2 TO 10-5
SCALE: Hori 1:500 Vert 1:100

RESOURCE CONSENT

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LEGEND
— — — — — EX GROUND LEVEL
— — — — — PR GROUND LEVEL
— — — — — CROSSING PIPE

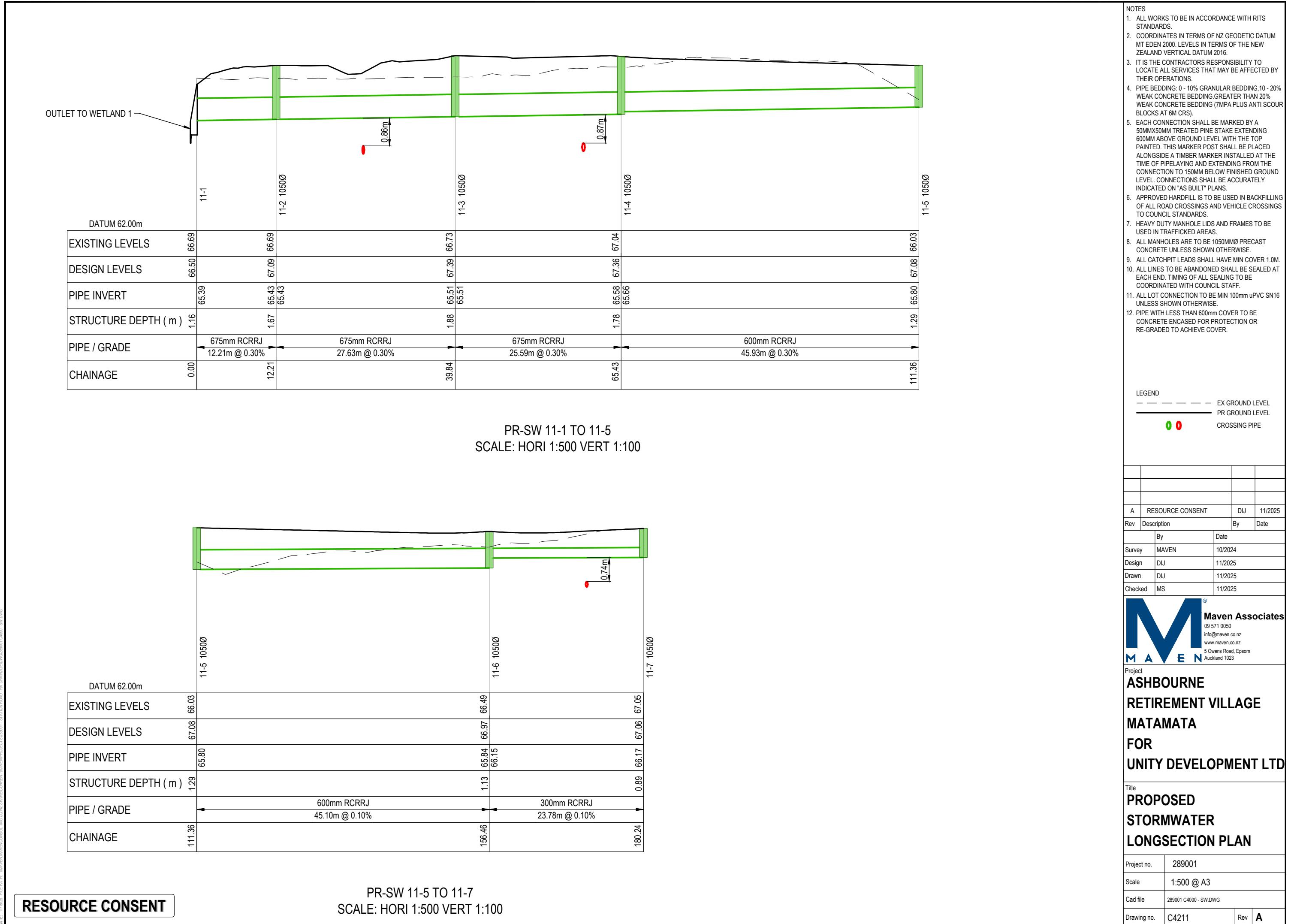
A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

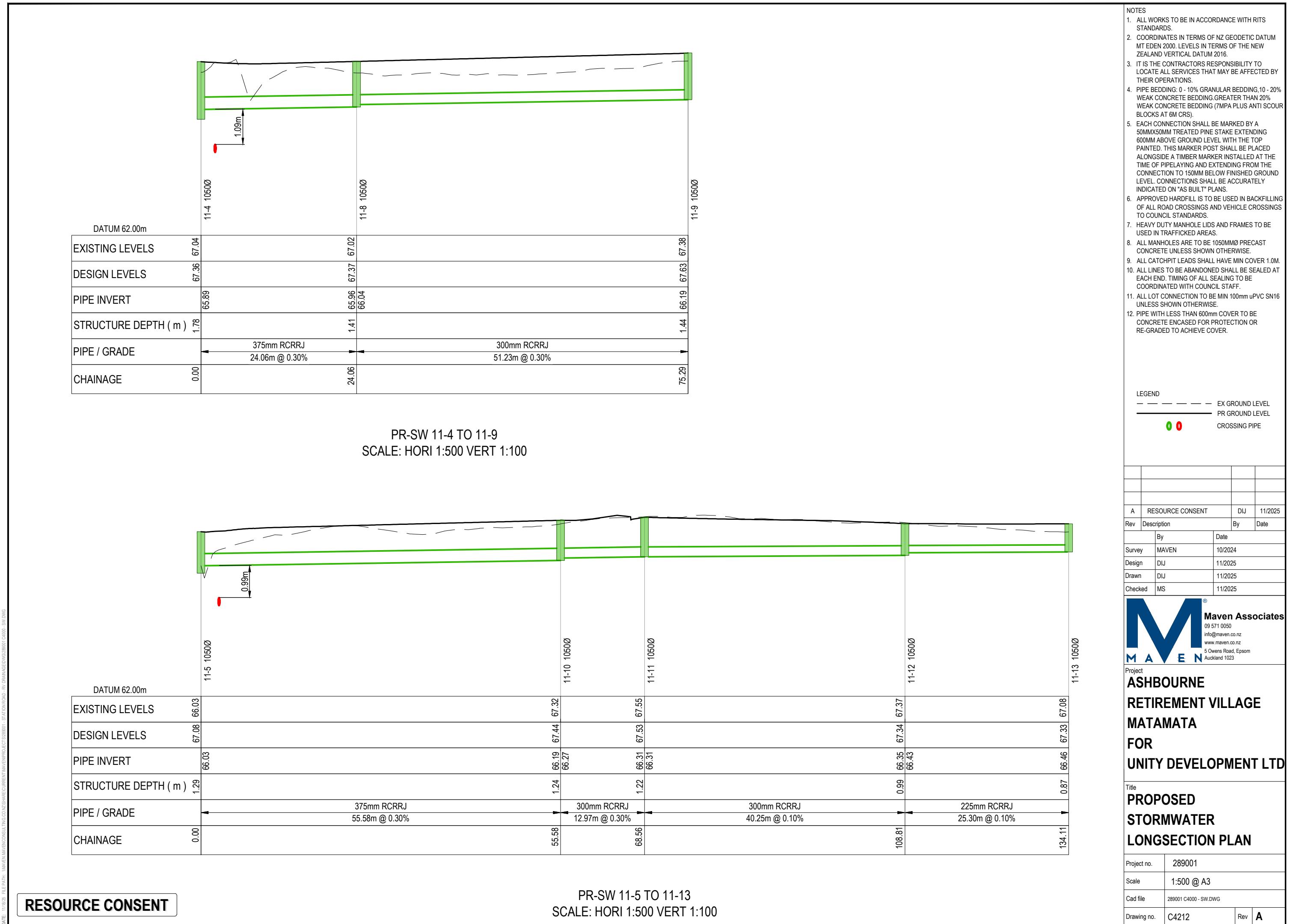
Maven Associates
09 571 0050
info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

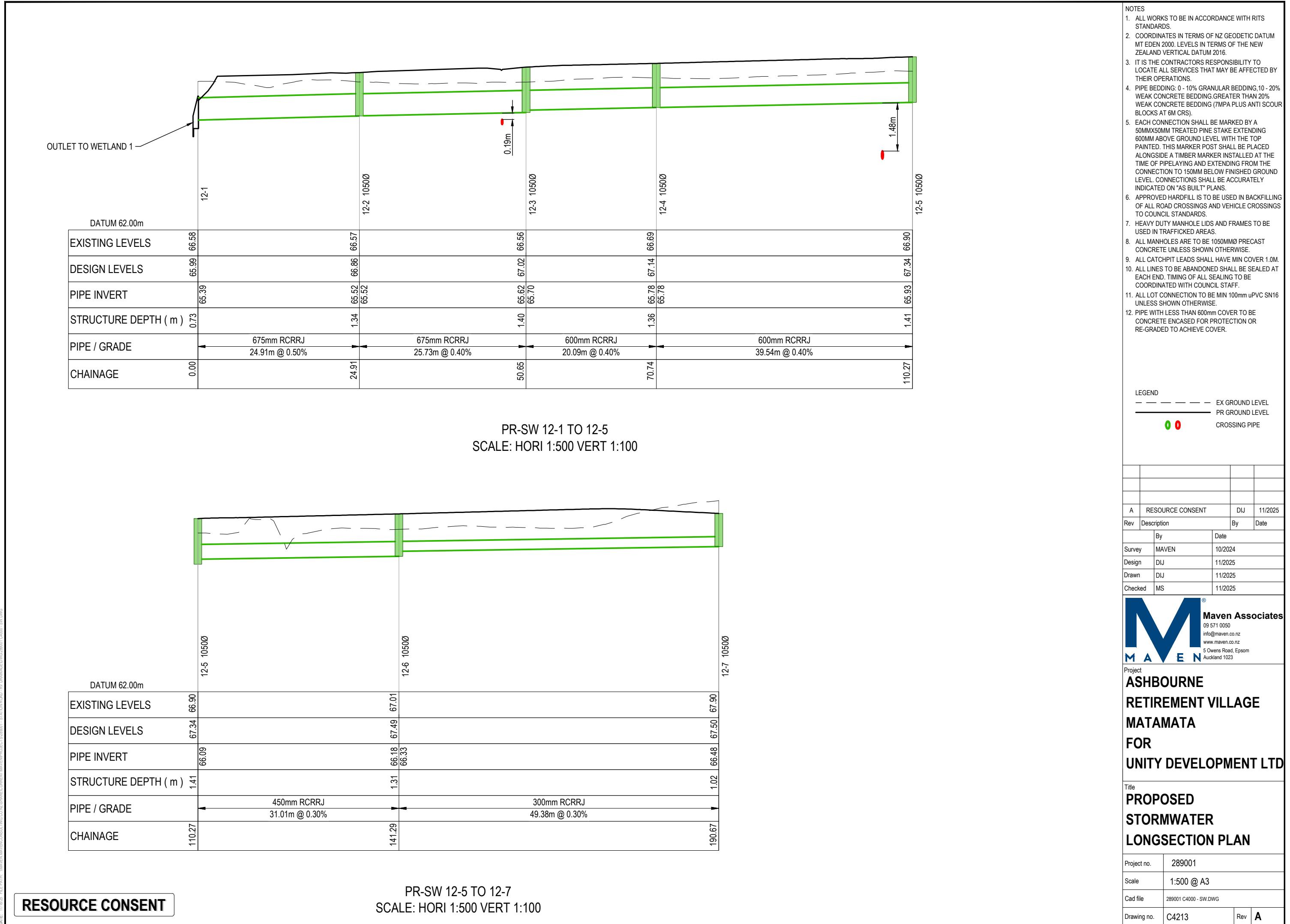
Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

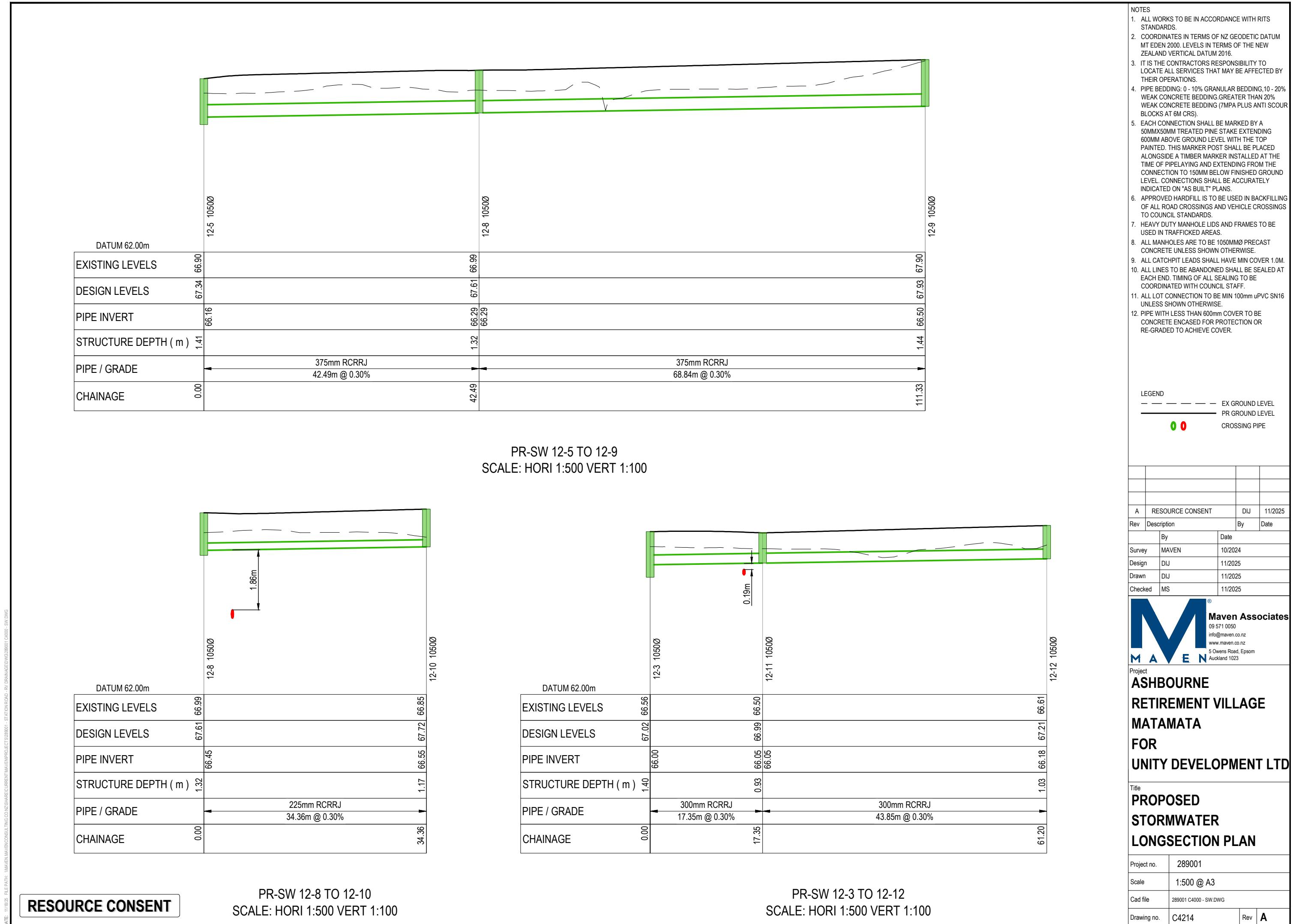
Title
**PROPOSED
STORMWATER
LONGSECTION PLAN**

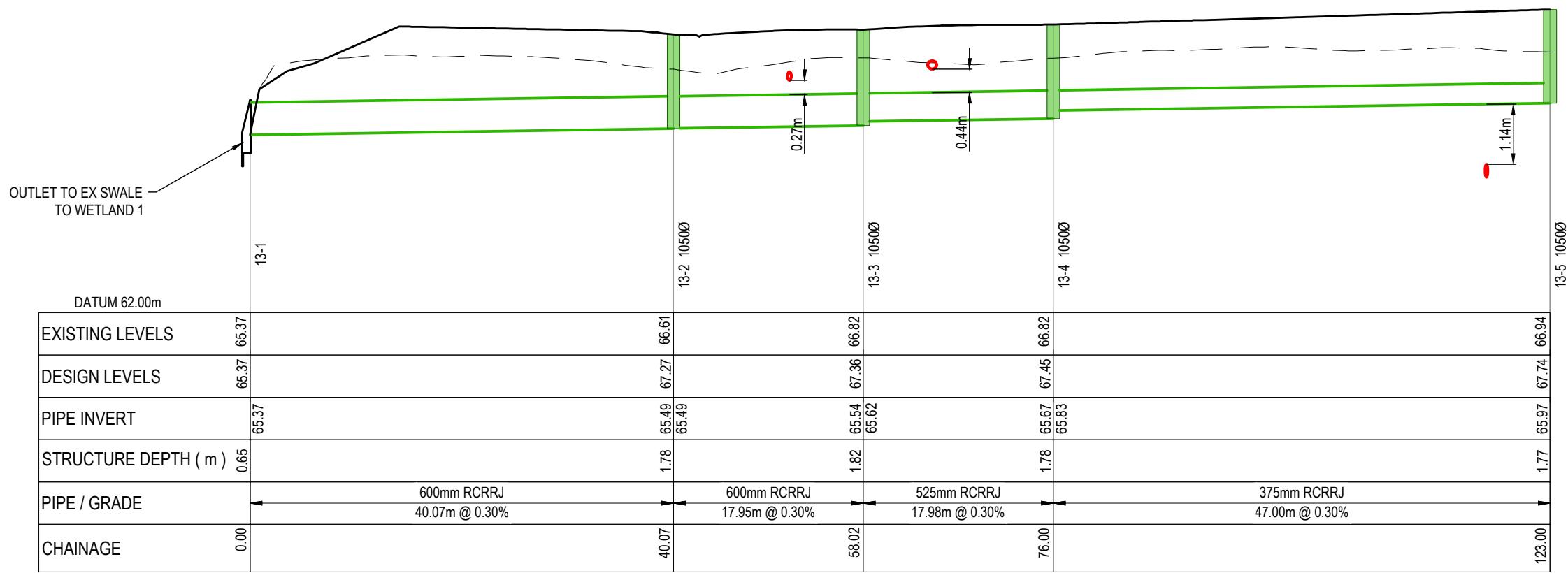
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Scale	1:500 @ A3		
Cad file	289001 C4000 - SW.DWG		
Drawing no.	C4210	Rev	A





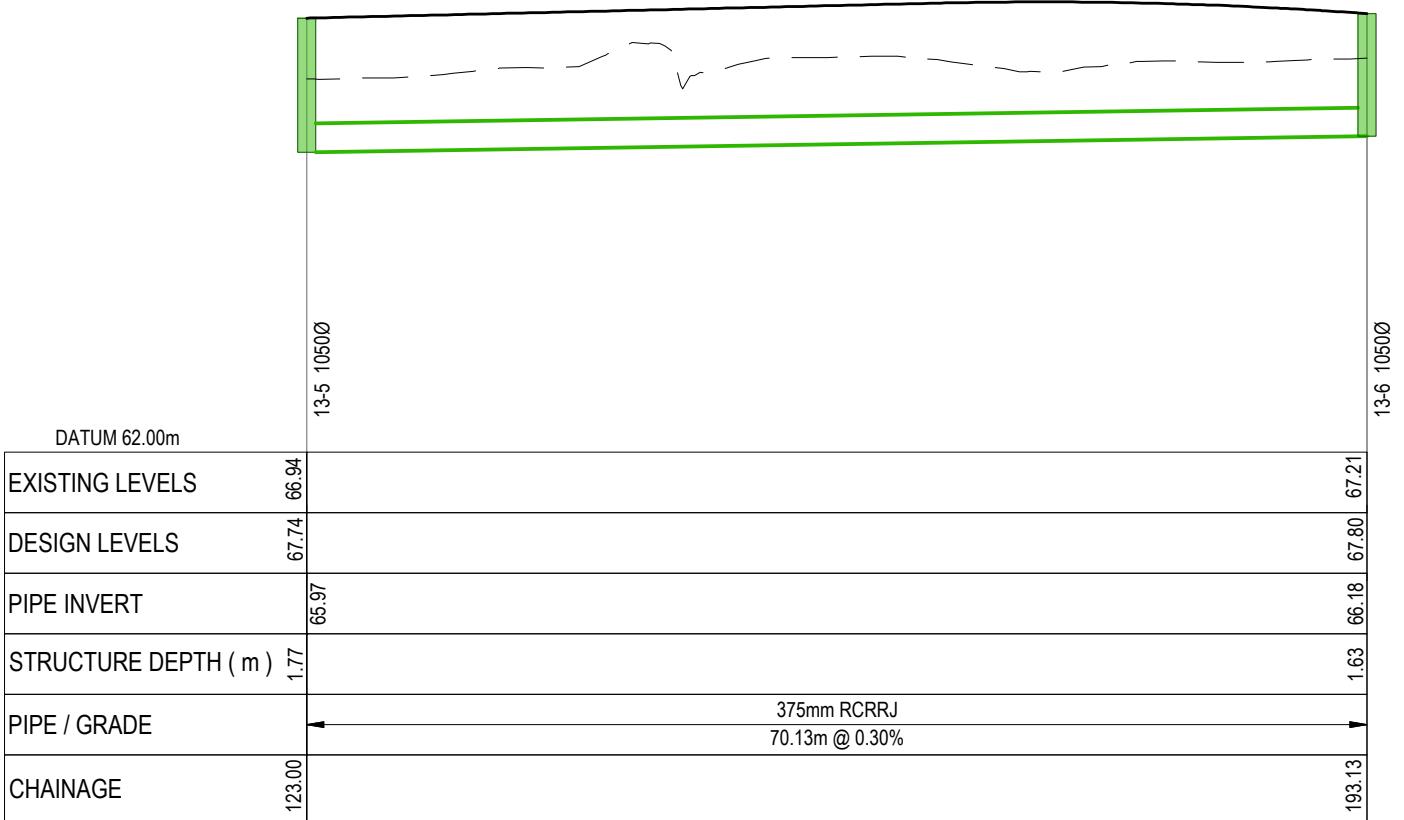






PR-SW 13-1 TO 13-5

SCALE: Hori 1:500 Vert 1:100



PR-SW 13-5 TO 13-6
SCALE: Hori 1:500 Vert 1:100

RESOURCE CONSENT

NOTES

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LEGEND
— — — — — EX GROUND LEVEL
— — — — — PR GROUND LEVEL
— — — — — CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

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Project
ASHBOURNE
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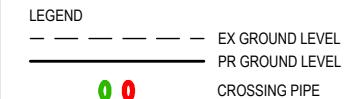
Title
**PROPOSED
STORMWATER
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C4000 - SW.DWG		
Drawing no.	C4215	Rev	A

NOTES

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LEGEND



A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	Survey	MAVEN	10/2024
	Design	DIJ	11/2025
	Drawn	DIJ	11/2025
	Checked	MS	11/2025

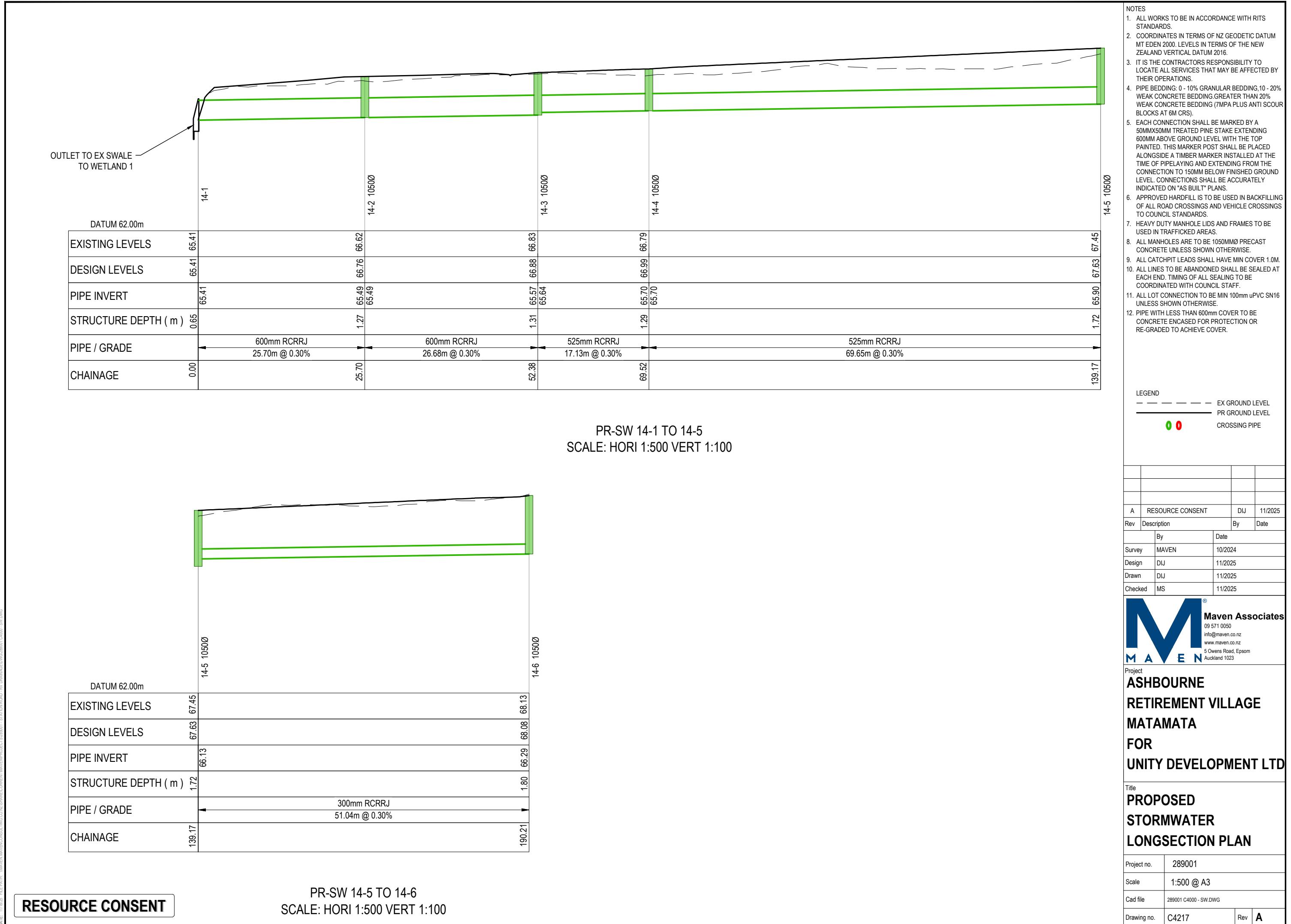
Maven Associates
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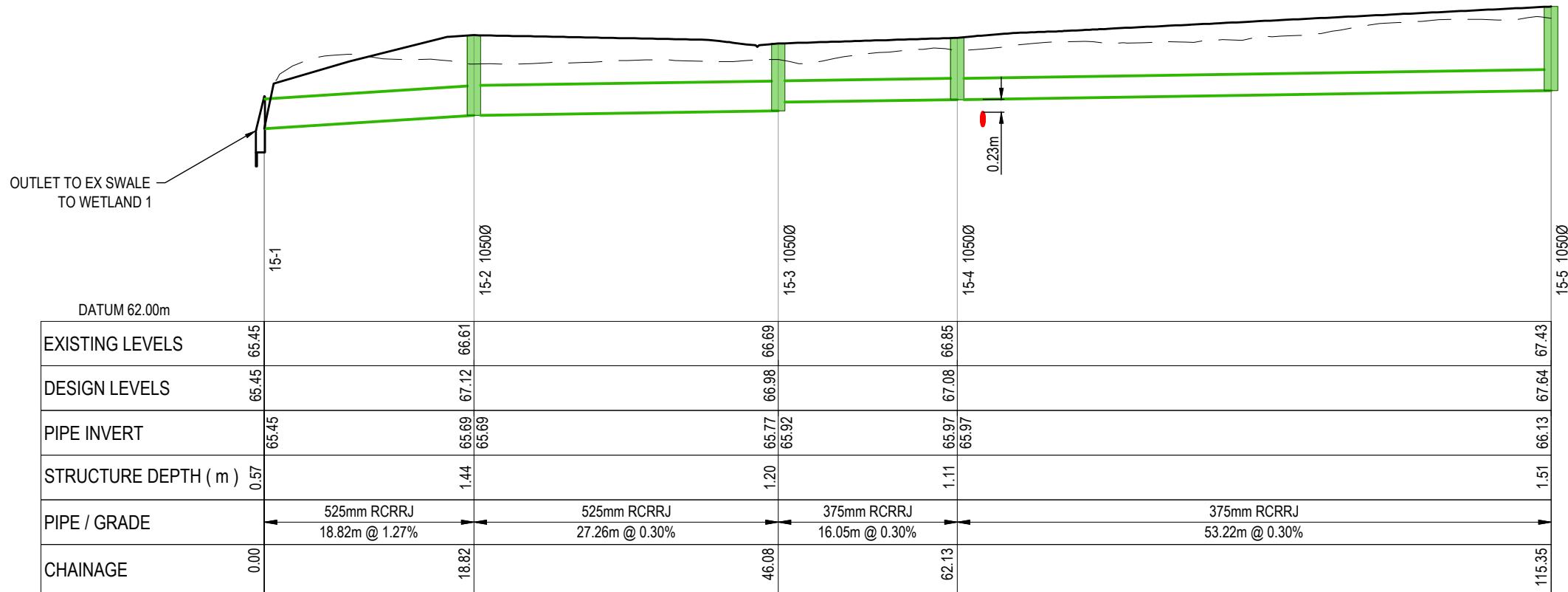
Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

Title
PROPOSED
STORMWATER
LONGSECTION PLAN

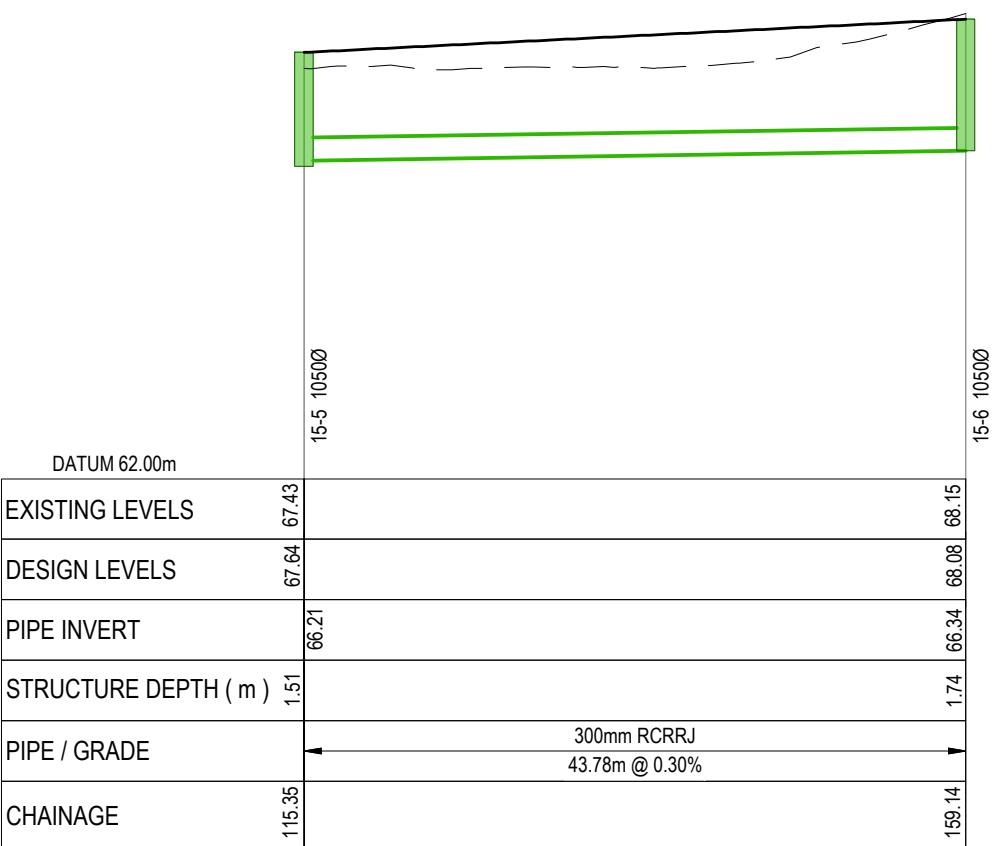
Project no.	289001
Scale	1:500 @ A3
Cad file	289001 C4000 - SW.DWG
Drawing no.	C4216

RESOURCE CONSENT





PR-SW 15-1 TO 15-5
SCALE: Hori 1:500 Vert 1:100



PR-SW 15-5 TO 15-6
SCAI F: Hori 1:500 Vert 1:100

RESOURCE CONSENT

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LEGEND

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

— — — — — CROSSING PIPE

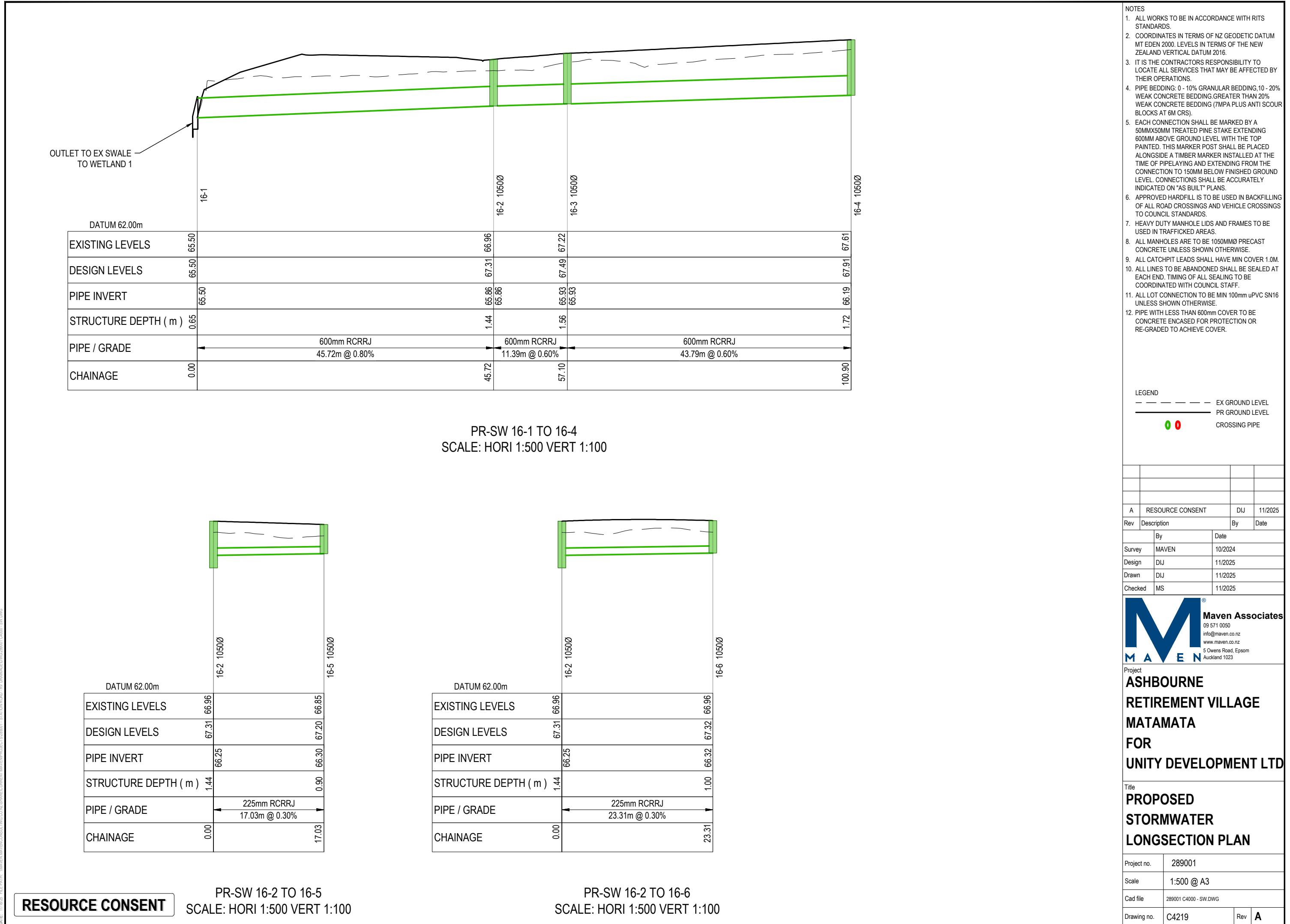
A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

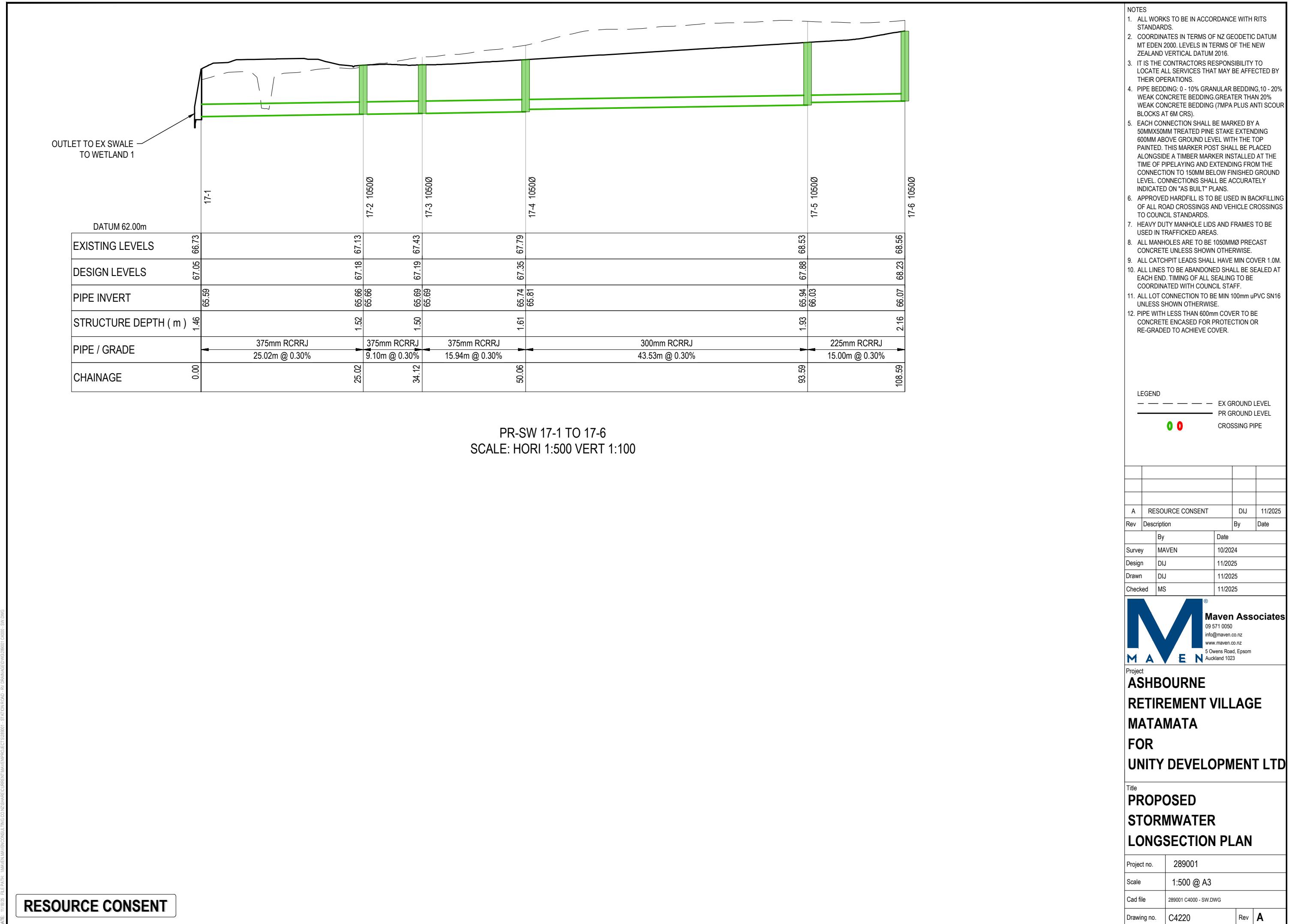
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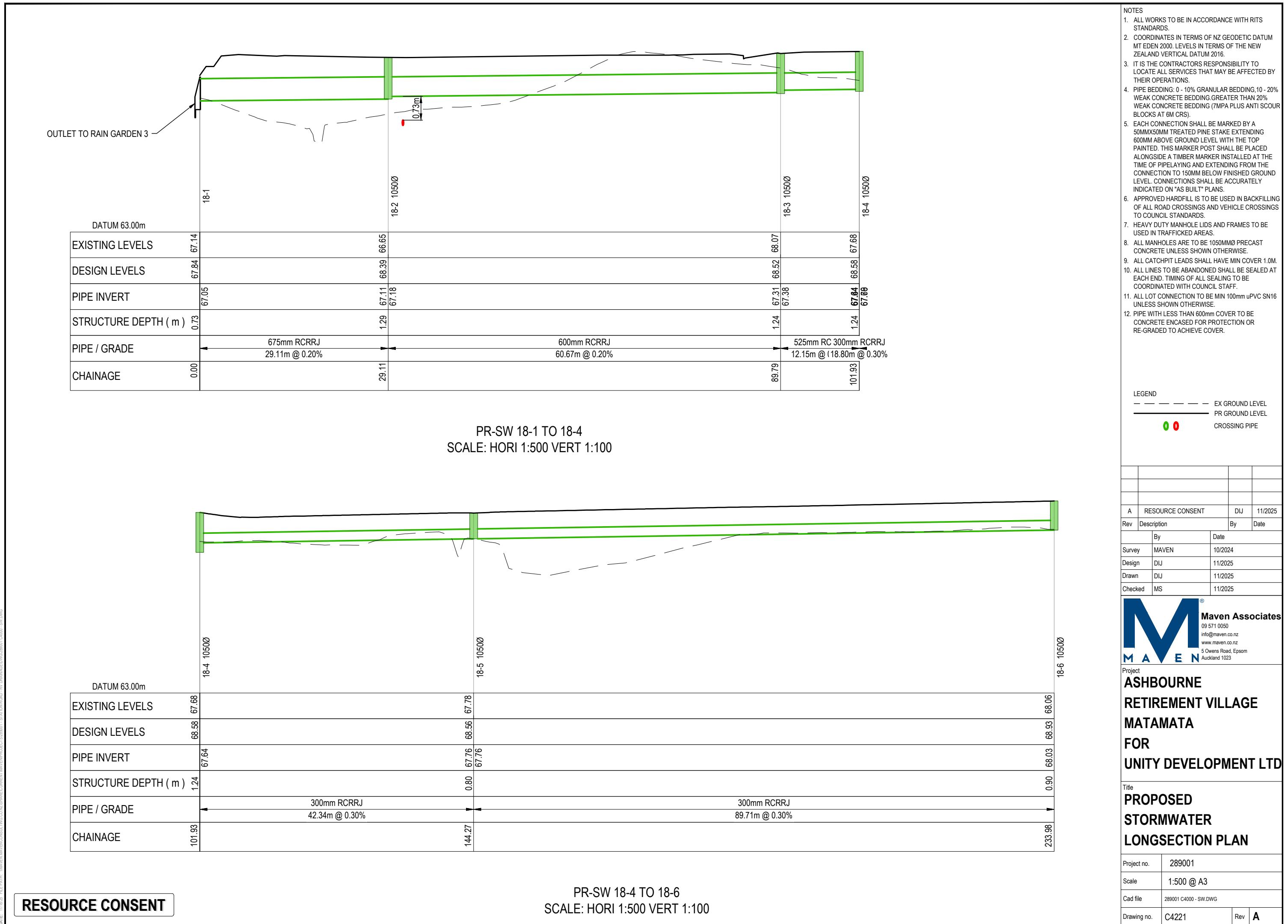
Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

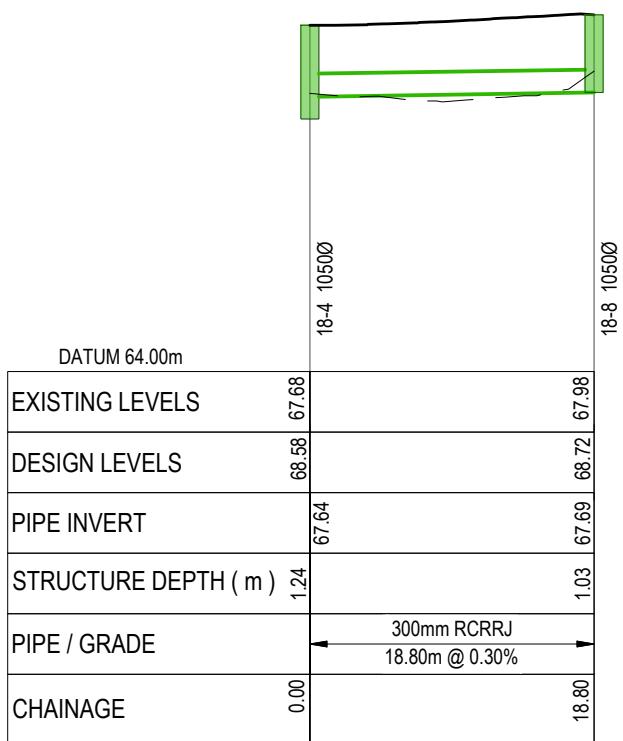
Title
**PROPOSED
STORMWATER
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001_C4000 - SW.DWG		
Drawing no.	C4218	Rev	A









PR-SW 18-4 TO 18-8
SCALE: Hori 1:500 Vert 1:100

A	RESOURCE CONSENT		DIJ	11/2025
Rev	Description		By	Date
	By	Date		
Survey	MAVEN	10/2024		
Design	DIJ	11/2025		
Drawn	DIJ	11/2025		
Checked	MS	11/2025		

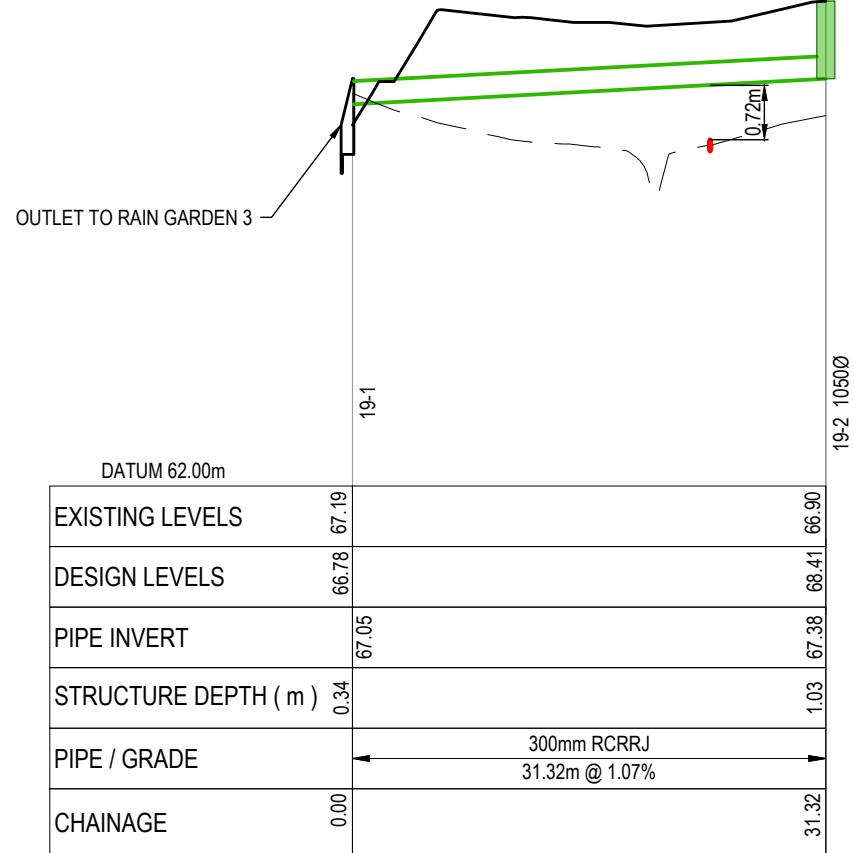
Maven Associates
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Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

Title
**PROPOSED
STORMWATER
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C4000 - SW.DWG		
Drawing no.	C4222	Rev	A

RESOURCE CONSENT



PR-SW 19-1 TO 19-2
SCALE: Hori 1:500 Vert 1:100

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH RITS STANDARDS.
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 CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
8. ALL MANHOLES ARE TO BE 1050MMØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0M.
10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.
12. PIPE WITH LESS THAN 600mm COVER TO BE CONCRETE ENCASED FOR PROTECTION OR RE-GRADED TO ACHIEVE COVER.

19-1

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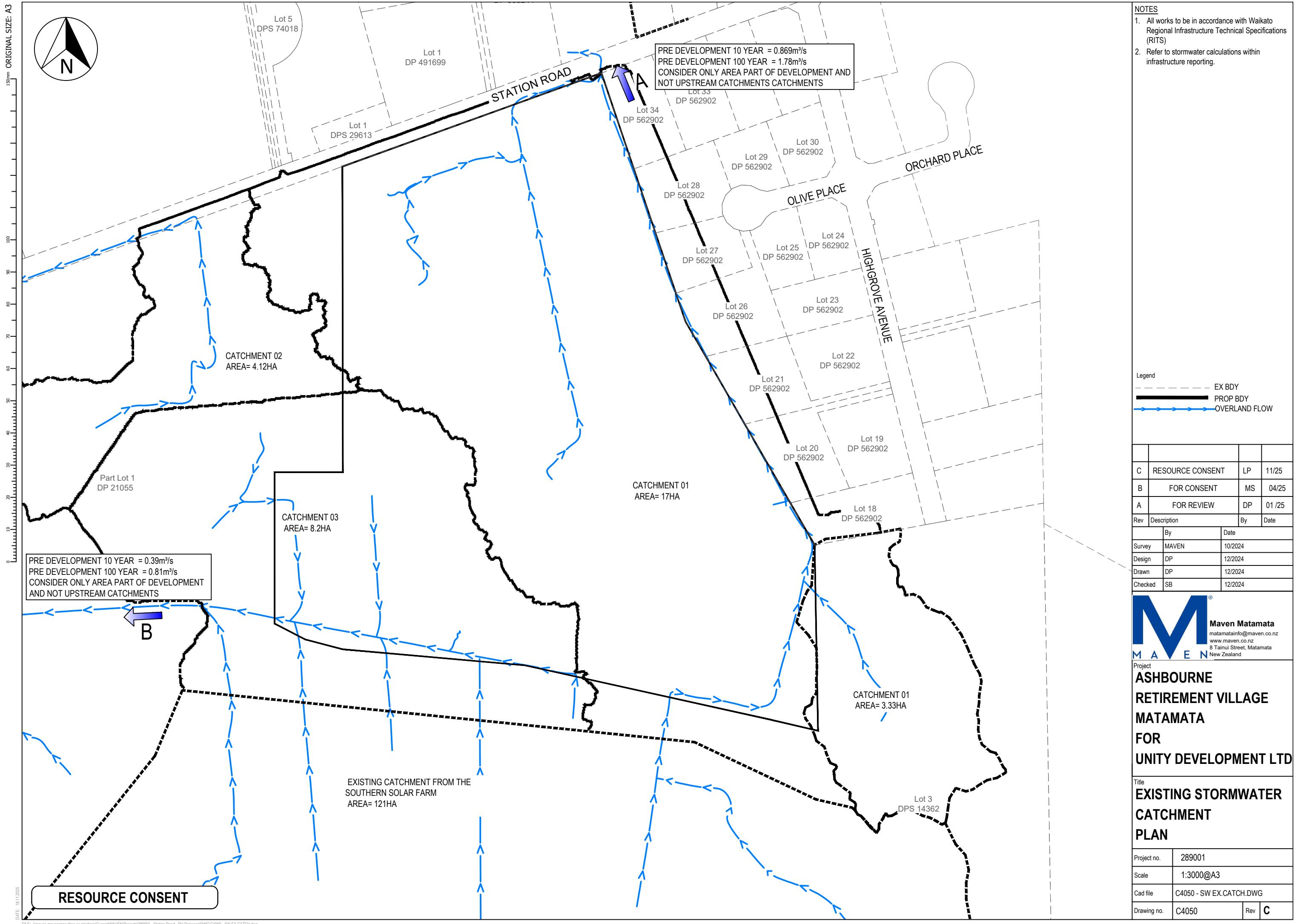
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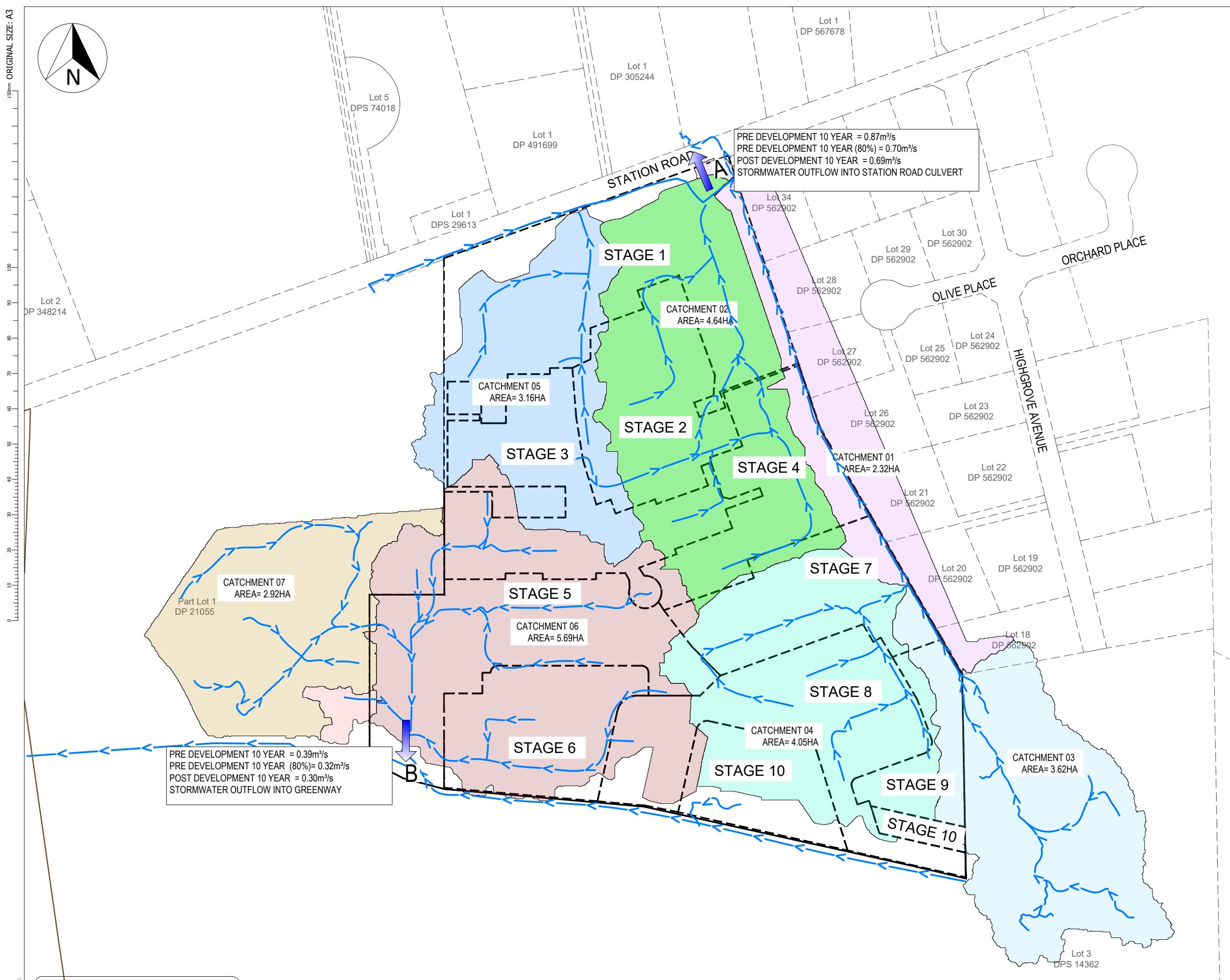
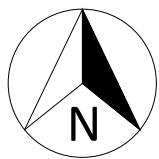
19-2 10500

19-2 10500

19-2 10500

1





NOTES

1. All works to be in accordance with Waikato Regional Infrastructure Technical Specifications (RITS)
2. refer to stormwater calculations within infrastructure reporting.

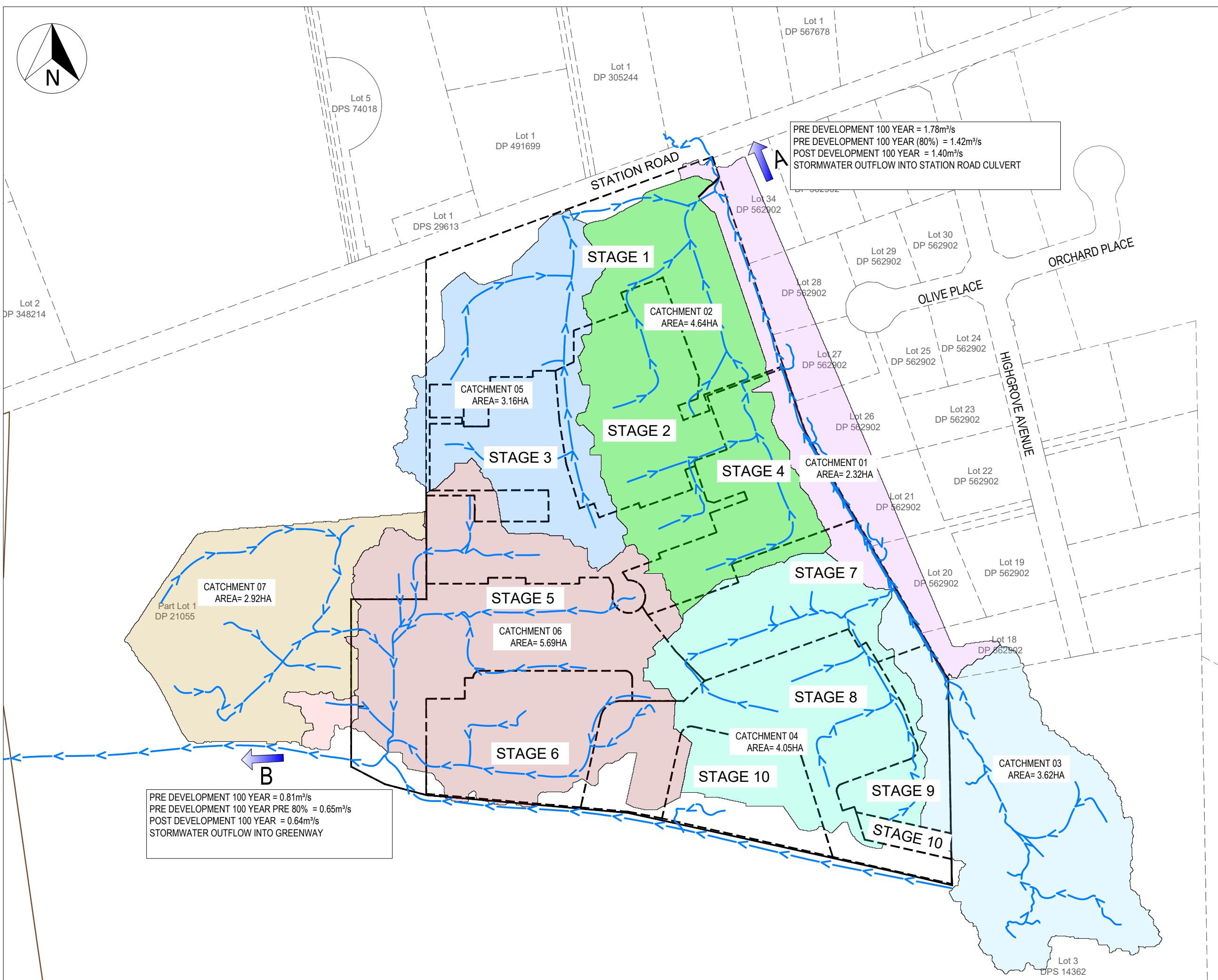
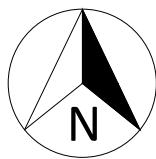
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B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description		By Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DP	12/2024	
Drawn	DP	12/2024	
Checked	SB	12/2024	

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Project
ASBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

Title
PROPOSED 10 YEAR
STORMWATER
CATCHMENT PLAN

Project no.	289001
Scale	1:3000@A3
Cad file	C4051 - SW PR.CATCH.DWG
Drawing no.	C4051
Rev	C



NOTES

1. All works to be in accordance with Waikato Regional Infrastructure Technical Specifications (RITS)
2. refer to stormwater calculations within infrastructure reporting.

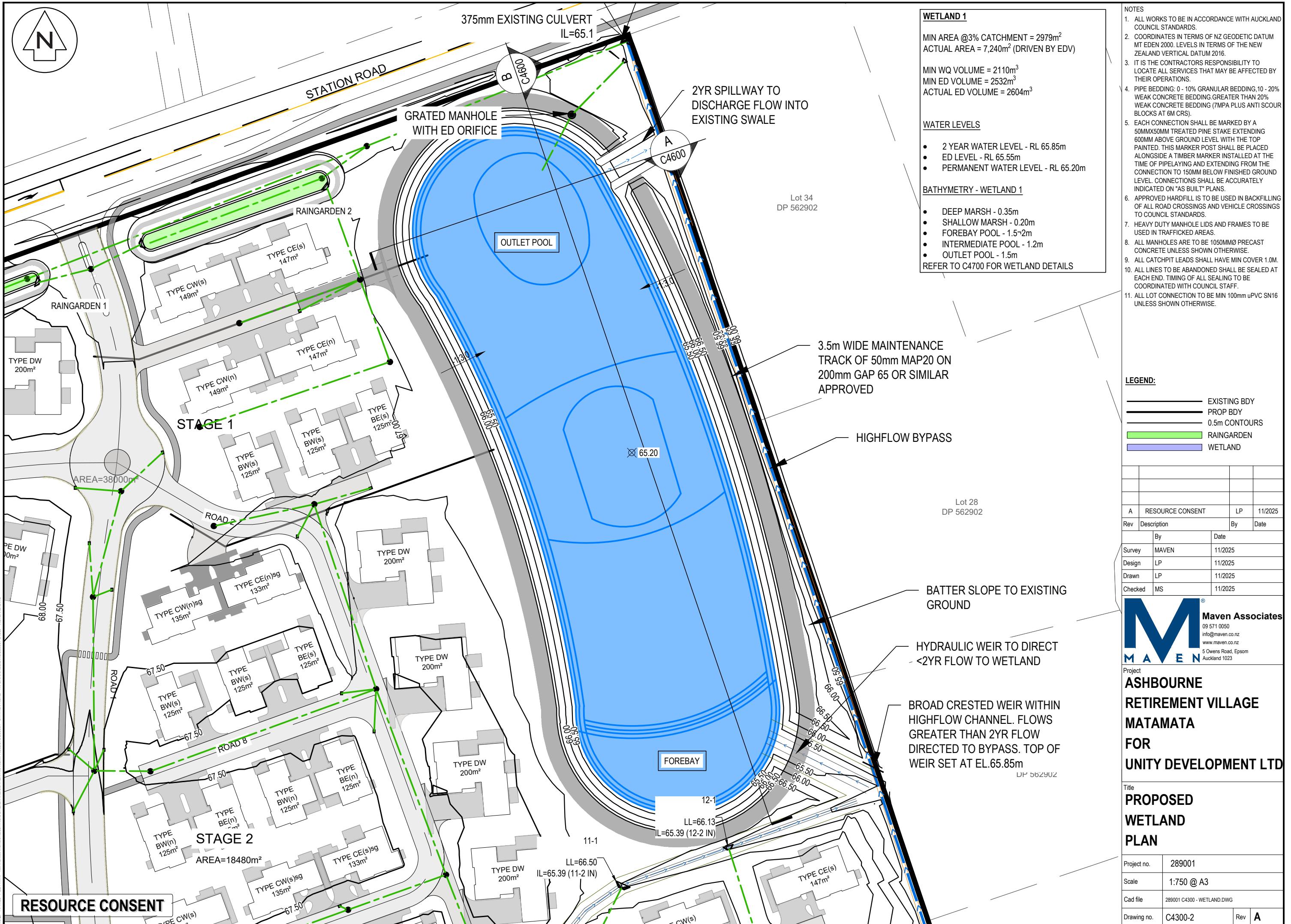
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B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN	10/2024	
Design	DP	12/2024	
Drawn	DP	12/2024	
Checked	SB	12/2024	

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Project
ASBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

Title
PROPOSED 100 YEAR
STORMWATER
CATCHMENT PLAN

Project no.	289001
Scale	1:3000@A3
Cad file	C4051 - SW PR.CATCH.DWG
Drawing no.	C4052
Rev	C





WETLAND 2

MIN AREA @3% CATCHMENT = 1670m²
ACTUAL AREA = 4,414m² (DRIVEN BY EDV)

MIN WQ VOLUME = 1183m³
MIN ED VOLUME = 1420m³
ACTUAL ED VOLUME = 1598m³

WATER LEVELS

- 2 YEAR WATER LEVEL - RL 66.15m
- ED LEVEL - RL 65.85m
- PERMANENT WATER LEVEL - RL 65.50m

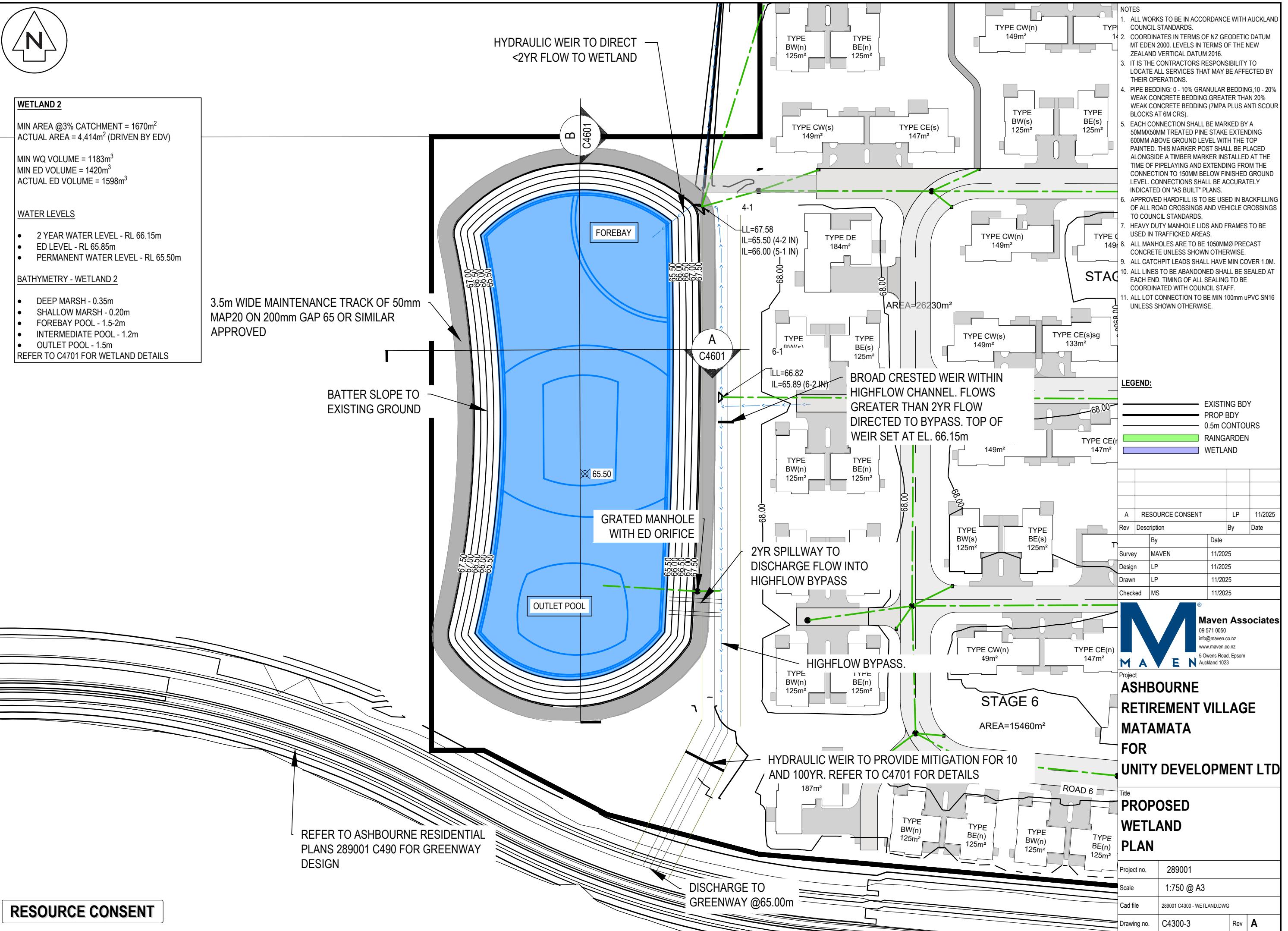
BATHYMETRY - WETLAND 2

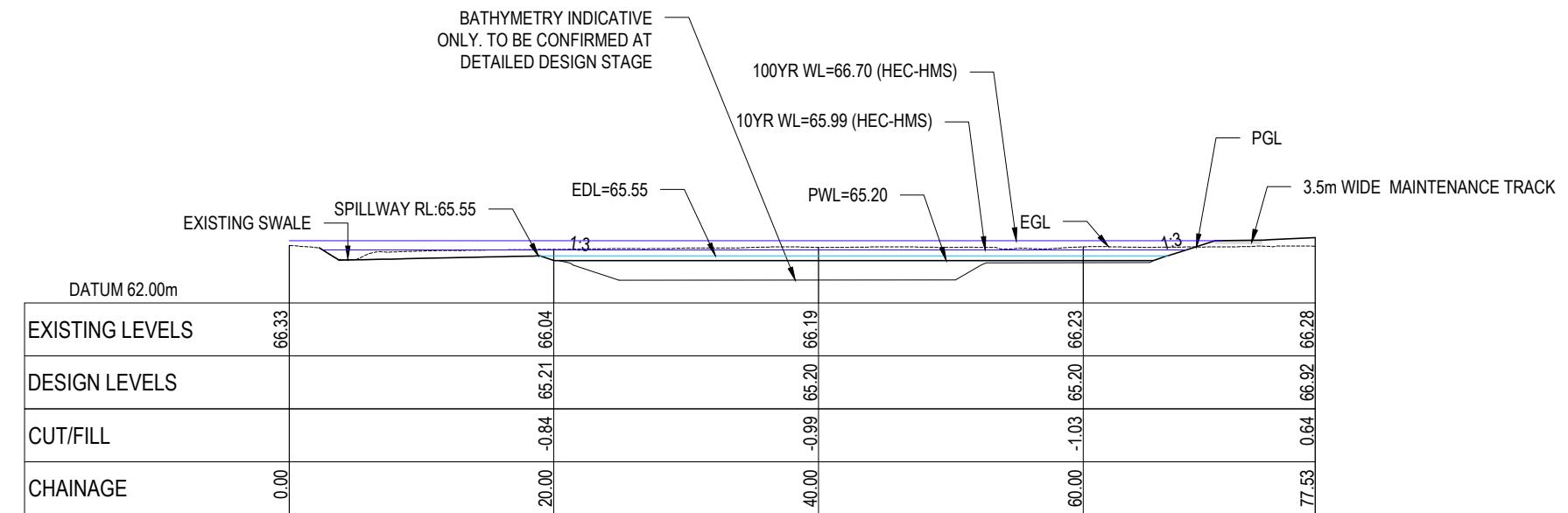
- DEEP MARSH - 0.35m
- SHALLOW MARSH - 0.20m
- FOREBAY POOL - 1.5-2m
- INTERMEDIATE POOL - 1.2m
- OUTLET POOL - 1.5m

REFER TO C4701 FOR WETLAND DETAILS

DATE: 10/7/25 FILE PATH: MAVEN\WATER\ASHBOURNE\289001-C4300-WETLAND.DWG

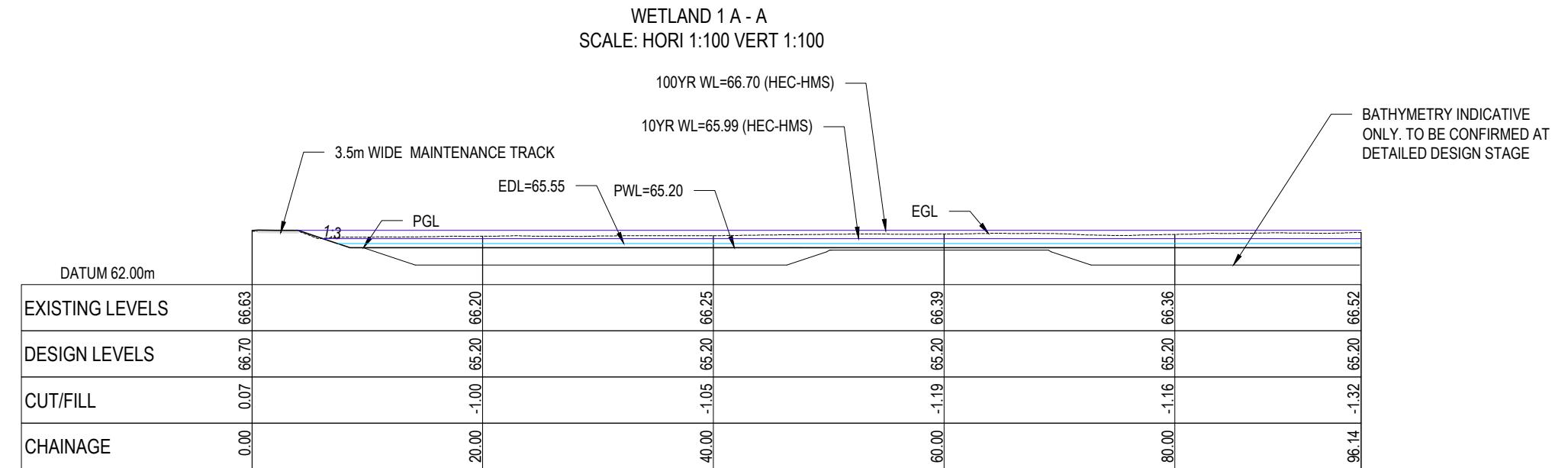
RESOURCE CONSENT





Notes

- All works to be in accordance with RITS standards.
- Co-ordinates in terms of Mount Eden 2000.
- Reduced Levels are in terms of NZVD 2016.
- It is the contractors responsibility to locate all services that may be affected by his operations.
- Pipe bedding: 0 - 10% granular bedding, 10 - 20% weak concrete bedding, greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
- Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
- Heavy duty manhole lids and frames to be used in trafficked areas.
- All cesspit leads shall have min cover 0.9m.
- All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.



C	RESOURCE CONSENT	LP	11/25
B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev Description By Date			
	By	Date	
Survey	MAVEN	10/2024	
Design	KQ	12/2024	
Drawn	DP	12/2024	
Checked	SB	12/2024	

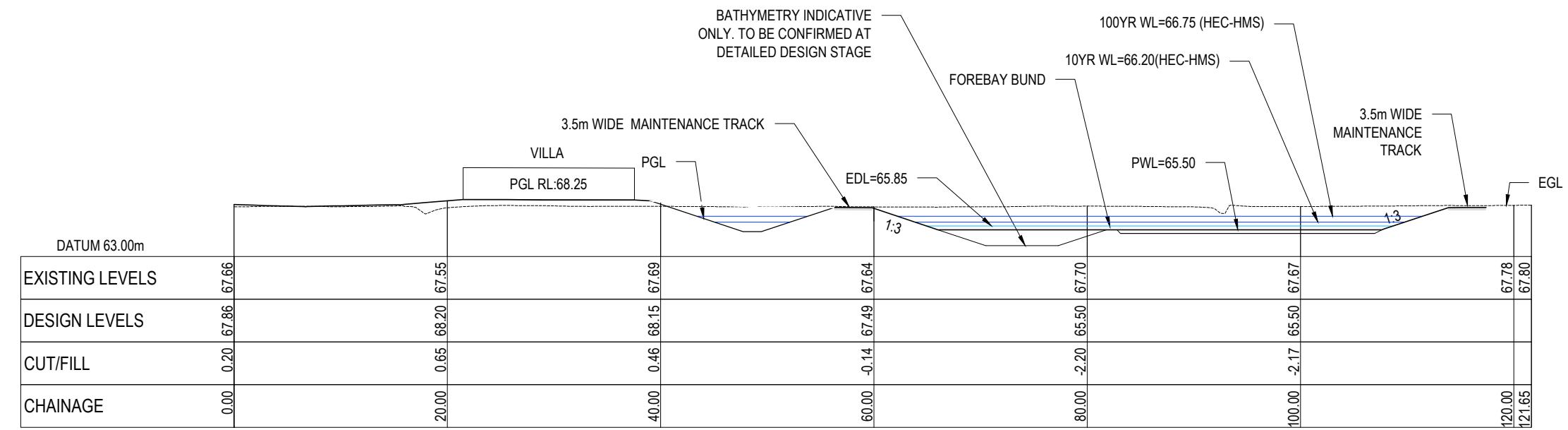


Project
ASHBOURNE RETIREMENT VILLAGE MATAMATA FOR UNITY DEVELOPMENT LTD

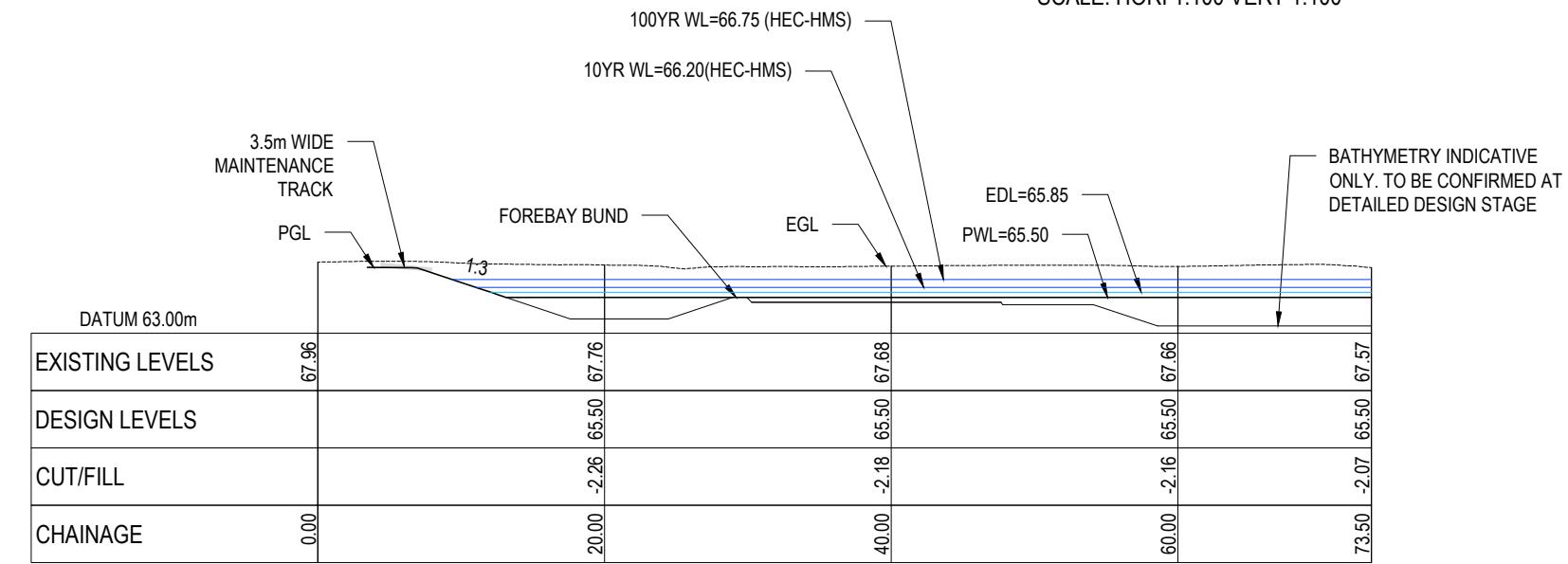
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PROPOSED WETLAND 1 CROSS SECTION PLAN

Project no.	289001		
Scale	AS SHOWN		
Cad file	C4600 - WETLAND SECTIONS.DWG		
Drawing no.	C4600	Rev	C

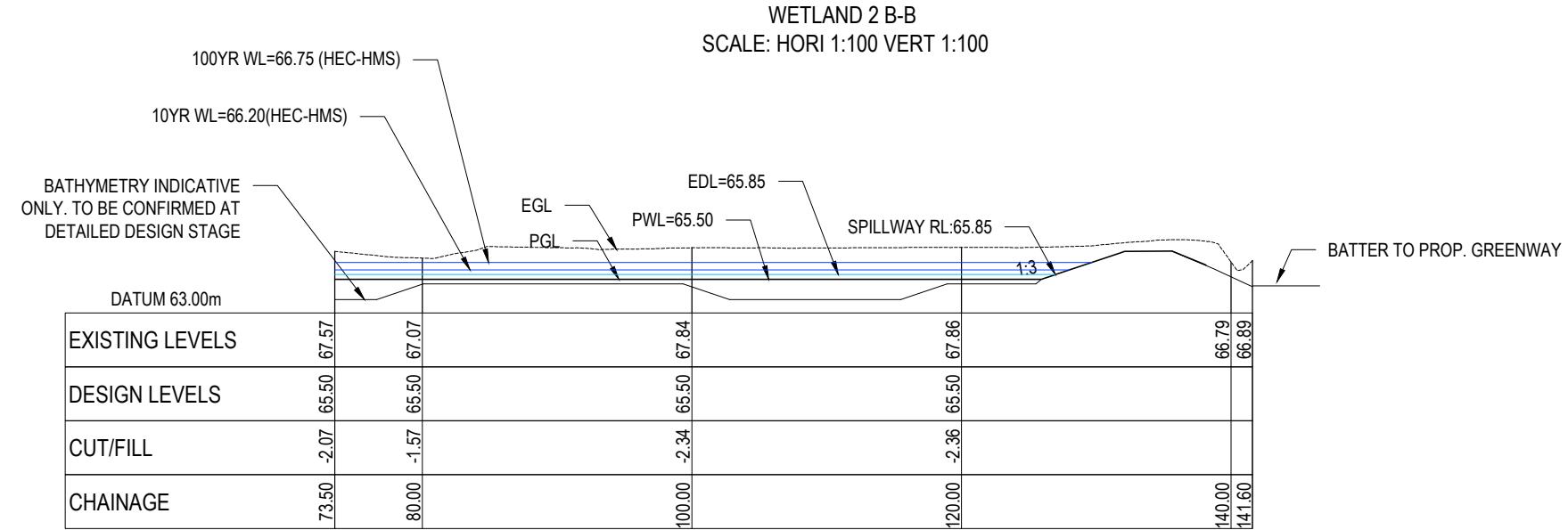
RESOURCE CONSENT



WETLAND 2 A-A
SCALE: HORIZ 1:100 VERT 1:100



WETLAND 2 A-A
SCALE: HORIZ 1:100 VERT 1:100



WETLAND 2 B-B CON.
SCALE: HORIZ 1:100 VERT 1:100

Notes

1. All works to be in accordance with RITS standards.
2. Co-ordinates in terms of Mount Eden 2000.
3. Reduced Levels are in terms of NZVD 2016.
4. It is the contractors responsibility to locate all services that may be affected by his operations.
5. Pipe bedding: 0 - 10% granular bedding, 10 - 20% weak concrete bedding greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
6. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
7. Heavy duty manhole lids and frames to be used in trafficked areas.
8. All cesspit leads shall have min cover 0.9m.
9. All lines to be abandoned shall be sealed at each end. Timing of all sealing to be coordinated with council staff.

C	RESOURCE CONSENT	LP	11/25
B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description		By Date
			By Date
Survey	MAVEN		10/2024
Design	KQ		11/2024
Drawn	DP		12/2024
Checked	SB		12/2024



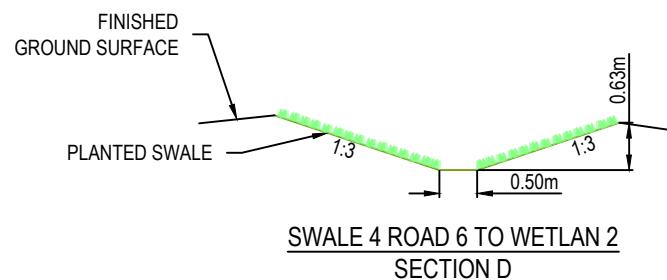
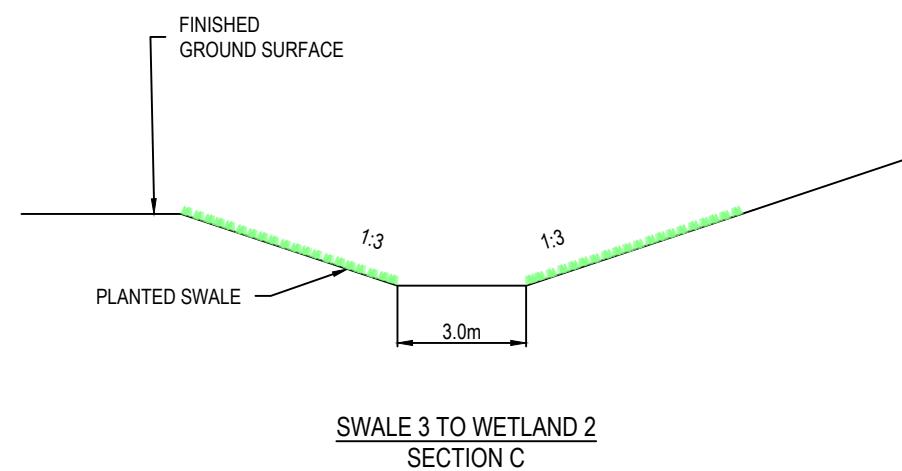
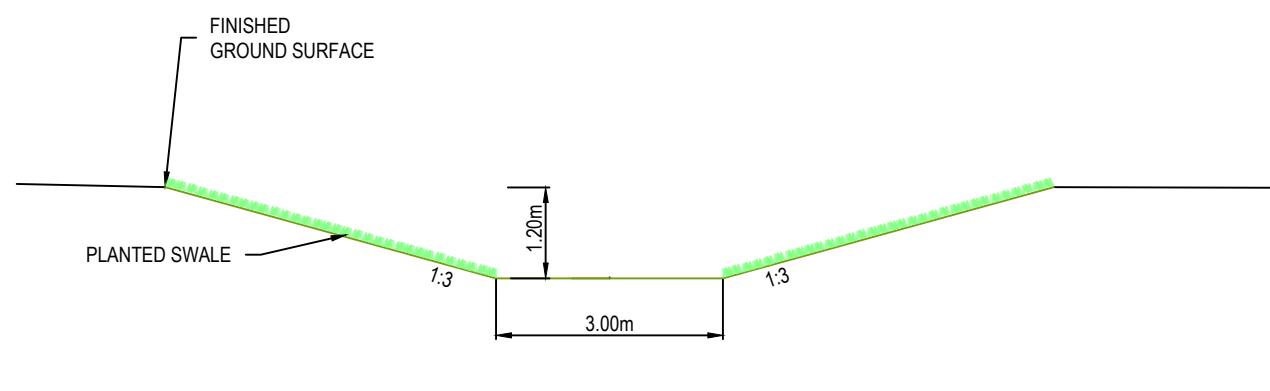
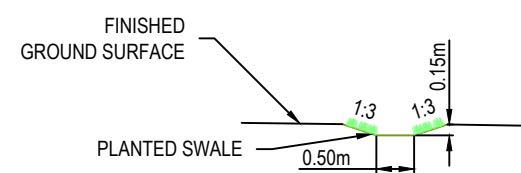
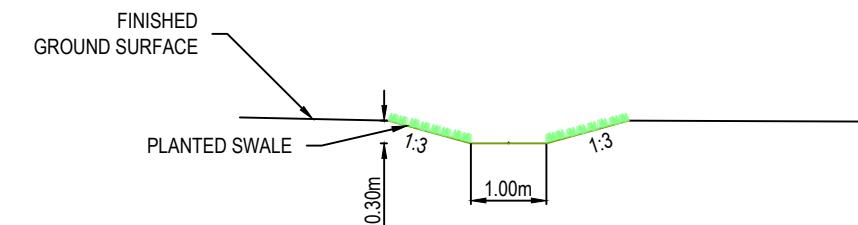
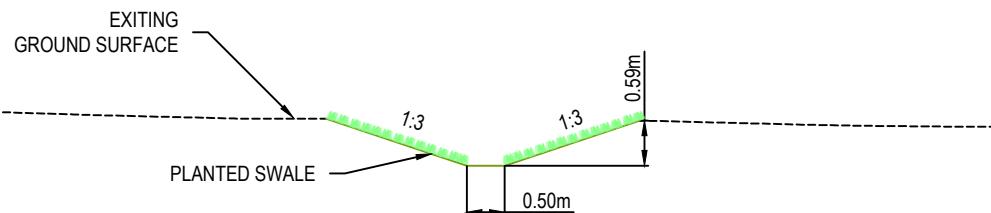
Project
ASHBOURNE RETIREMENT VILLAGE MATAMATA FOR UNITY DEVELOPMENT LTD

Title
PROPOSED WETLAND 2 CROSS SECTION PLAN

Project no.	J00606	
Scale	AS SHOWN	
Cad file	C4600 - WETLAND SECTIONS.DWG	
Drawing no.	C4601	Rev C

RESOURCE CONSENT





Notes

1. All works to be in accordance with RITS standards.
2. Co-ordinates in terms of Mount Eden 2000.
3. Reduced Levels are in terms of NZVD 2016.
4. It is the contractors responsibility to locate all services that may be affected by his operations.

C	RESOURCE CONSENT	LP	11/25
B	FOR CONSENT	MS	04/25
A	FOR REVIEW	DP	01/25
Rev	Description		By Date
			By Date
Survey	MAVEN		10/2024
Design	KQ		12/2024
Drawn	DP		12/2024
Checked	SB		12/2024



Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

Title
PROPOSED
STORMWATER SWALES
CROSS SECTIONS

Project no.	289001
Scale	1:100
Cad file	C4650 - SW SWALES.DWG
Drawing no.	C4651

RESOURCE CONSENT



RAINGARDEN NOTES:

1. EMERGENCY OVERFLOW TO BE DESIGNED TO ACCOMODATE 10 YR STORM EVENTS VIA SCRUFFY DOME MANHOLE.
2. SUBSOILS DRAINS SIZED AT 150mm @ 0.50% TO ACCOMODATE WQF FLOW
3. REFER TO C4702 FOR RAINGARDEN MEDIA DETAILS

LEGEND:

EXISTING BDY
PROP BDY
0.5m CONTOURS
RAINGARDEN

BASE AREA: 138m² BASED ON WQV
CATCHMENT AREA - 5744m² @ 1V:3H BATTER

PONDING RL: 66.65m
BASE RL: 66.35m
OUTLET IL: 65.20m

REF ID: C4702 REFER TO SHEET C4702 FOR RAINGARDEN MEDIA DETAILS.

TYPE DF

DATUM 64.00m

EXISTING LEVELS																				
DESIGN LEVELS																				
CUT/FILL																				
CHAINAGE	0.00	-0.13	67.30	67.43	5.00	-0.92	66.80	67.73	10.00	-1.05	66.70	67.75	15.00	0.07	67.82	67.75	20.00	0.29	67.90	67.49

RAINGARDEN 1 - XS A
SCALE: Hori 1:250 Vert 1:250

RESOURCE CONSENT

A	RESOURCE CONSENT	YZ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	11/2025	
Design	YZ	11/2025	
Drawn	YZ	11/2025	
Checked	MS	11/2025	

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Project
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RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

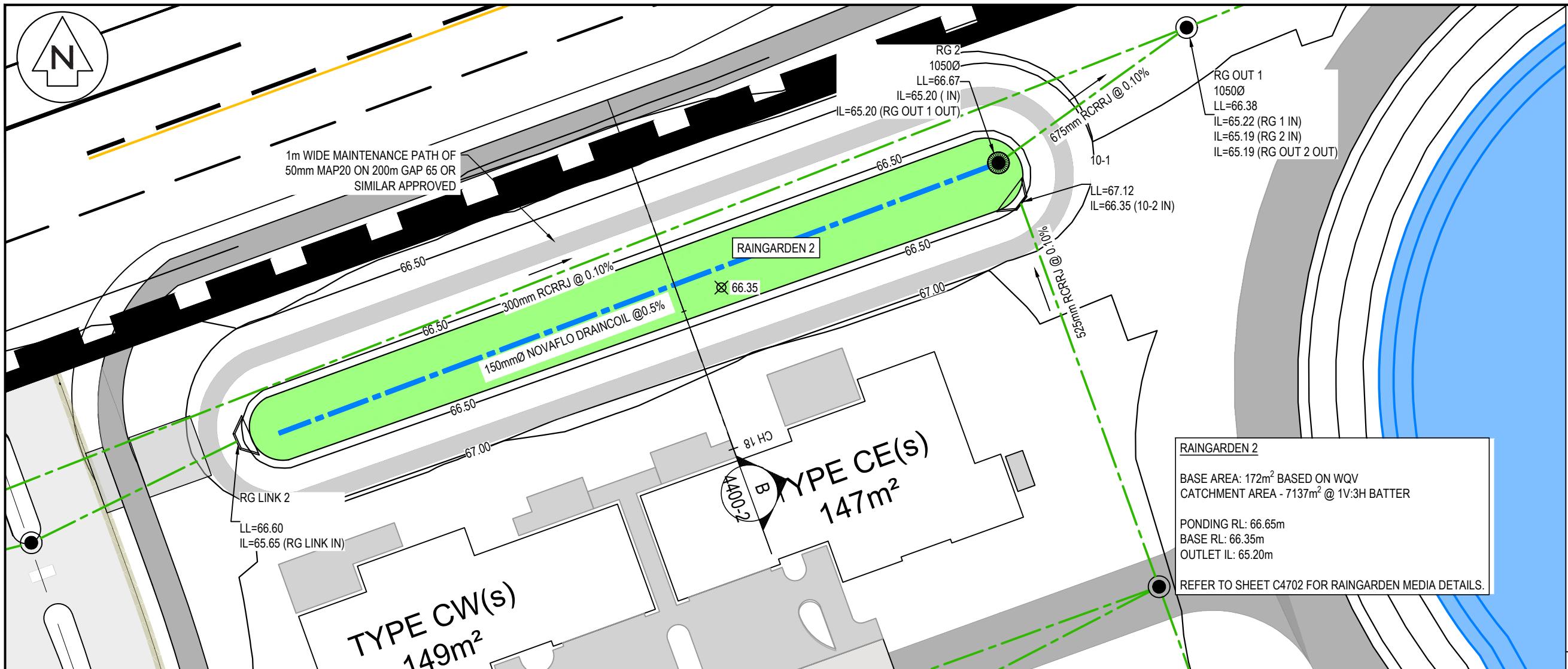
Title

PROPOSED

RAINGARDENS

PLAN

Project no.	289001		
Scale	1:250 @ A3		
Cad file	289001 C4400 - RAINGARDENS.DWG		
Drawing no.	C4400-1	Rev	A



RAINGARDEN NOTES:

1. EMERGENCY OVERFLOW TO BE DESIGNED TO ACCOMODATE 10 YR STORM EVENTS VIA SCRUFFY DOME MANHOLE.
2. SUBSOILS DRAINS SIZED AT 150mm @ 0.50% TO ACCOMODATE WQF FLOW
3. REFER TO C4702 FOR RAINGARDEN MEDIA DETAILS

LEGEND:

— EXISTING BDY
— PROP BDY
— 0.5m CONTOURS
— RAINGARDEN

RAINGARDEN 2

BASE AREA: 172m² BASED ON WQV
CATCHMENT AREA - 7137m² @ 1V:3H BATTER

PONDING RL: 66.65m
BASE RL: 66.35m
QUITI FT II : 65.20m

REFER TO SHEET C4702 FOR RAINGARDEN MEDIA DETAILS.

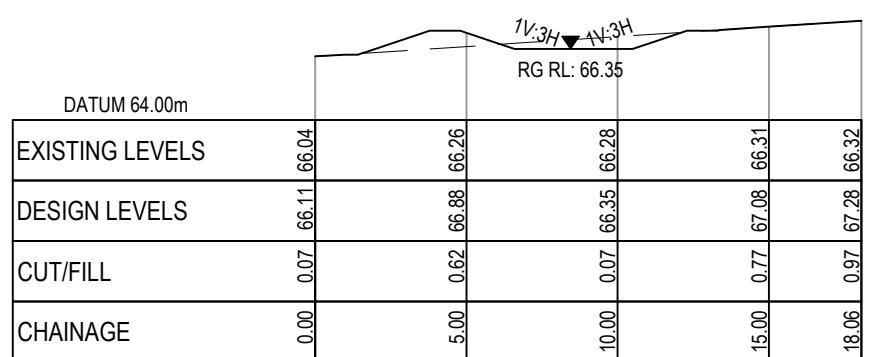
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Rev	Description	By	Date
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Survey	MAVEN	11/2025	
Design	YZ	11/2025	
Drawn	YZ	11/2025	
Checked	MS	11/2025	



Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

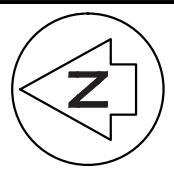
Title **PROPOSED RAINGARDENS PLAN**

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Drawing no.	C4400-2	Rev	A



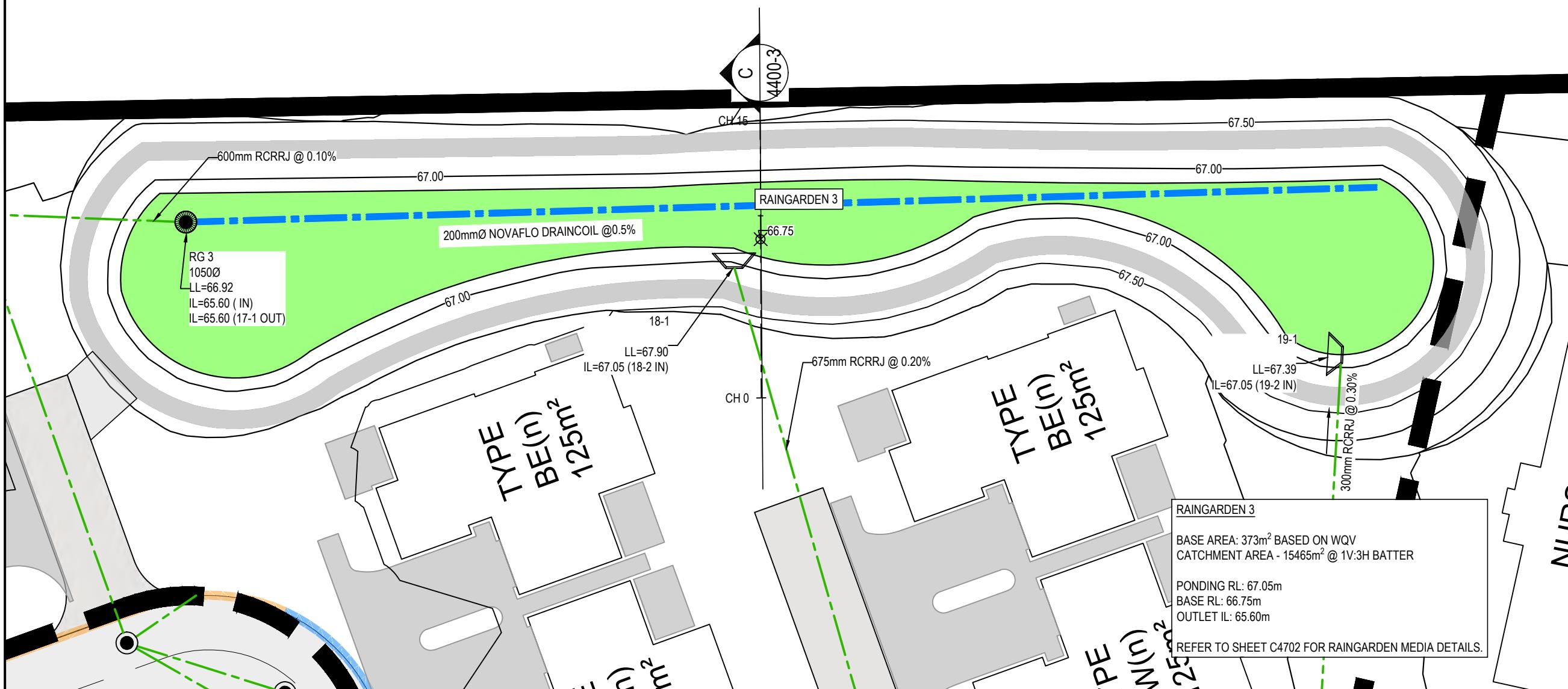
RAINGARDEN 2 - XS B
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT



RAINGARDEN NOTES:

1. EMERGENCY OVERFLOW TO BE DESIGNED TO ACCOMODATE 10 YR STORM EVENTS VIA SCRUFFY DOME MANHOLE.
2. SUBSOILS DRAINS SIZED AT 200mm @ 0.50% TO ACCOMODATE WQF FLOW
3. REFER TO C4702 FOR RAINGARDEN MEDIA DETAILS



A RESOURCE CONSENT			YZ	11/2025
Rev	Description	By	Date	
Survey	MAVEN	11/2025		
Design	YZ	11/2025		
Drawn	YZ	11/2025		
Checked	MS	11/2025		



Project
**ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD**

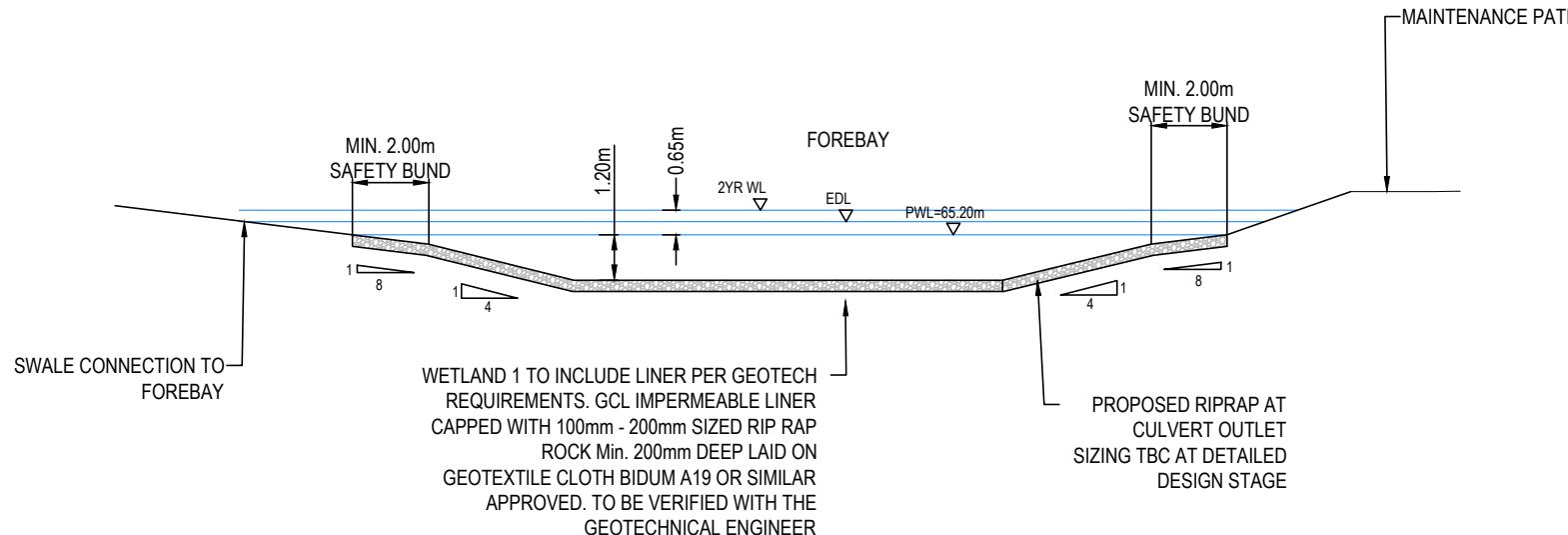
Title
**PROPOSED
RAINGARDENS
PLAN**

Project no.	289001
Scale	1:250 @ A3
Cad file	289001 C4400 - RAINGARDENS.DWG
Drawing no.	C4400-3
Rev	A

DATUM 64.00m	1V:3H	1V:3H
EXISTING LEVELS	67.70	67.67
DESIGN LEVELS	67.70	67.67
CUT/FILL	-0.32	0.03
CHAINAGE	5.00	10.00

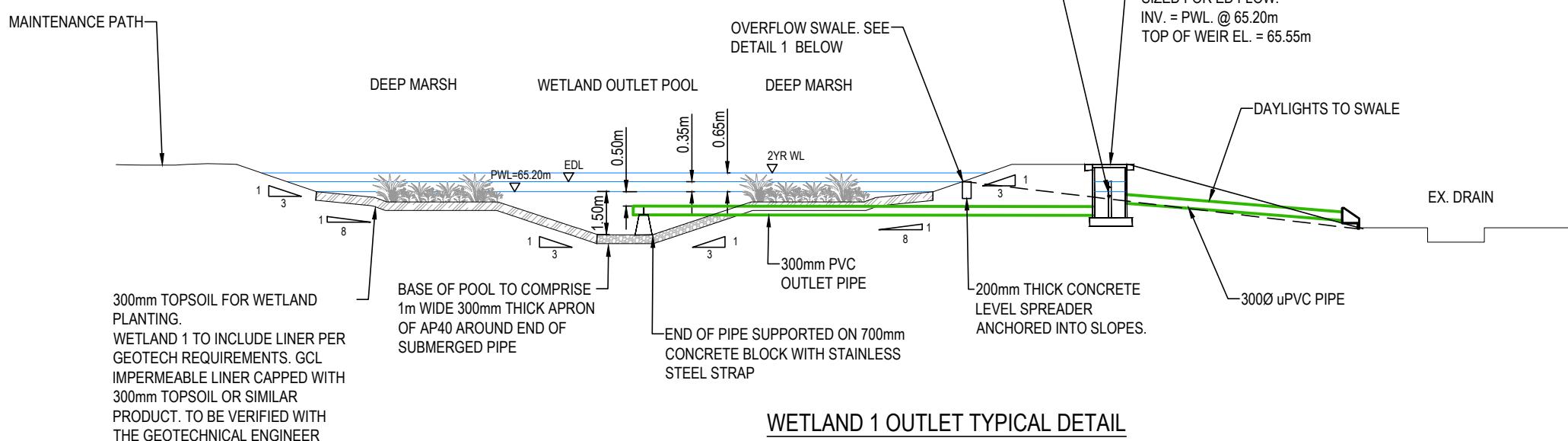
RAINGARDEN 3 - XS C
SCALE: Hori 1:250 Vert 1:250

RESOURCE CONSENT

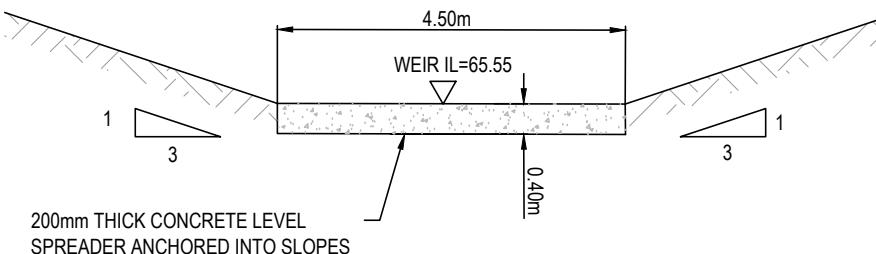


WETLAND 1 FOREBAY TYPICAL DETAIL
SCALE 1:200

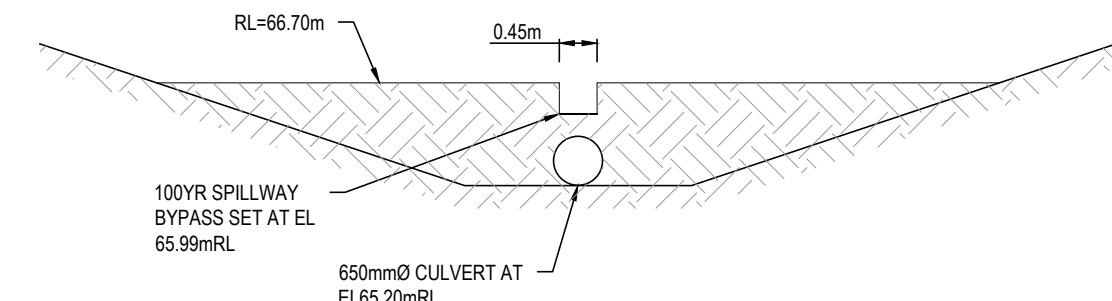
Wetland	ED Orifice (mm)	Orifice Invert (m)	Wetland Weir to Overflow Swale - Min Width (m)	Top of Weir (m)
1	240	65.20	4.5	65.55



WETLAND 1 OUTLET TYPICAL DETAIL
SCALE 1:200



DETAIL 1: WETLAND 1 OVERFLOW SWALE TYPICAL DETAIL
SCALE 1:200



DETAIL 2: WETLAND 1 HIGHFLOW BYPASS
OUTLET DETAIL
SCALE 1:100

RESOURCE CONSENT

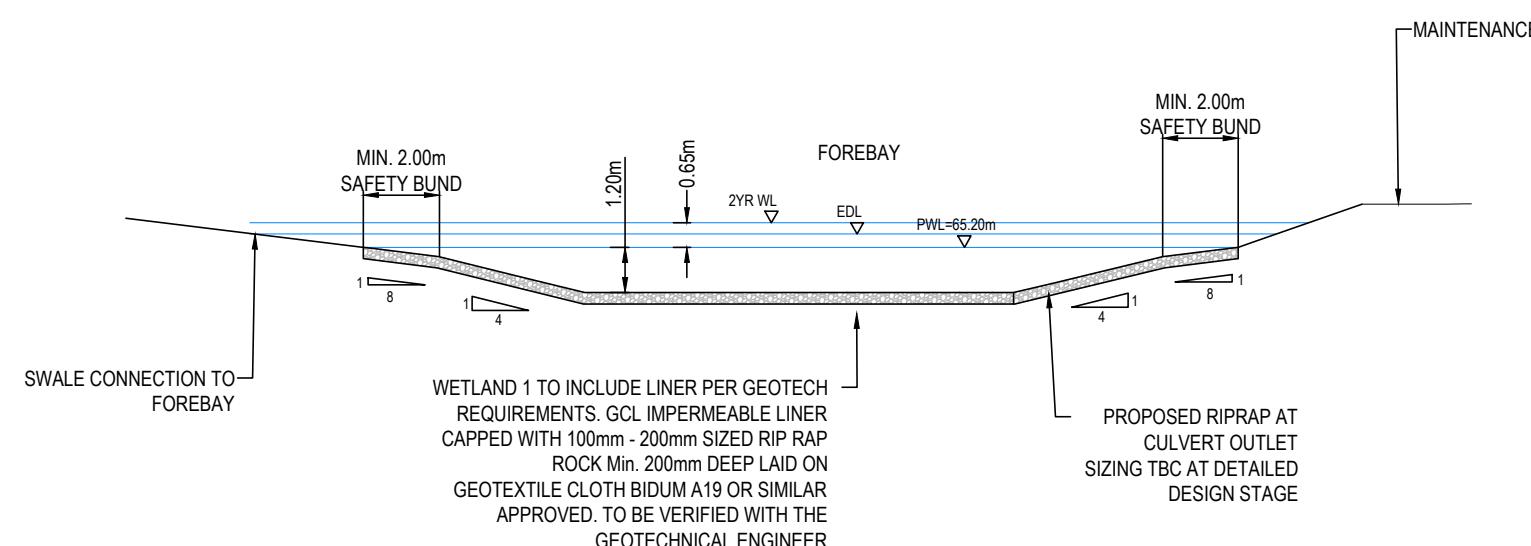
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Design	By	LP	11/2025	
Drawn	By	LP	11/2025	
Checked	By	MS	11/2025	

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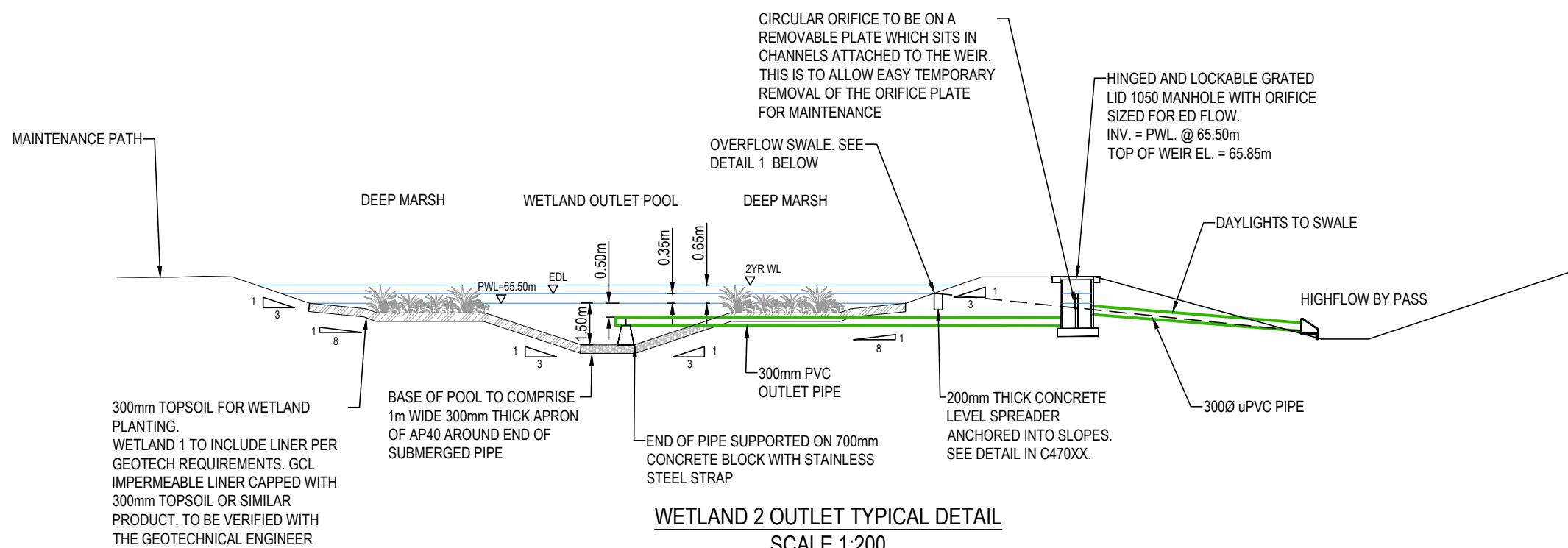
Project
**ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD**

Title
**PROPOSED
WETLAND & RAINGARDEN
DETAILS**

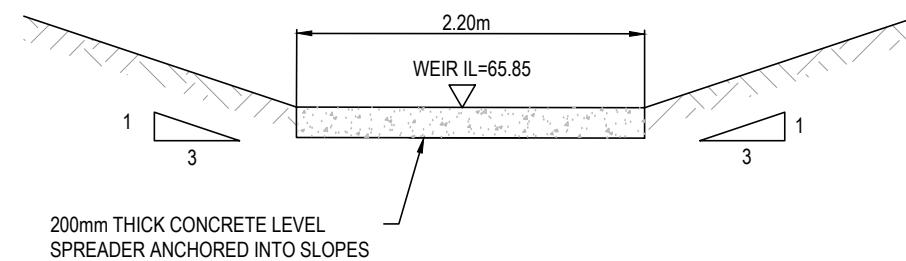
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Drawing no.	C4700	Rev	A



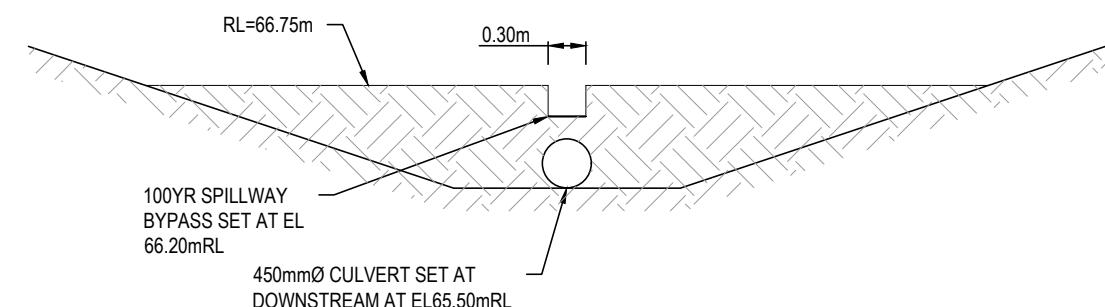
WETLAND 2 FOREBAY TYPICAL DETAIL
SCALE 1:200



WETLAND 2 OUTLET TYPICAL DETAIL
SCALE 1:200



DETAIL 1: WETLAND 2 OVERFLOW SWALE TYPICAL DETAIL
SCALE 1:200



DETAIL 2: WETLAND 2 HIGHFLOW BYPASS OUTLET DETAIL
SCALE 1:100

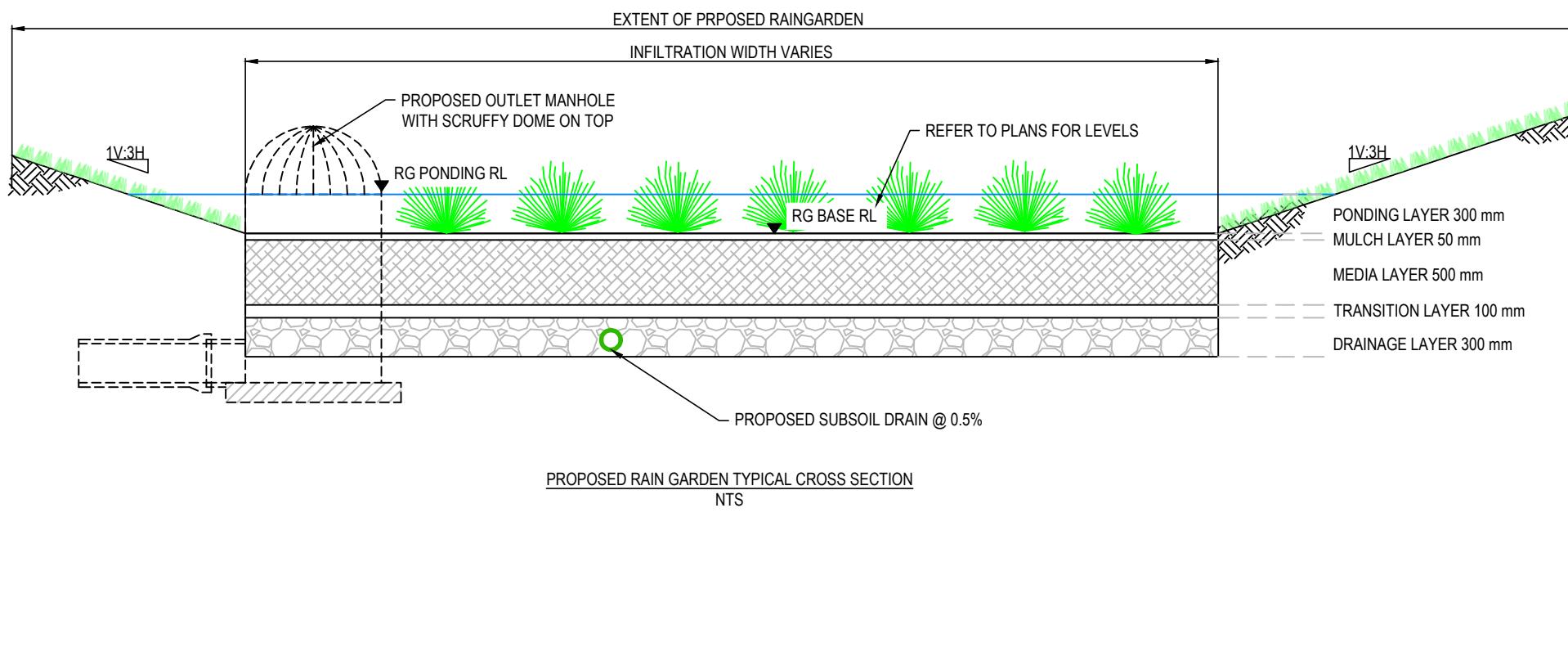
A	RESOURCE CONSENT	LP	11/2025
Rev	Description	By	Date
Survey	MAVEN	11/2025	
Design	LP	11/2025	
Drawn	LP	11/2025	
Checked	MS	11/2025	

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

**ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD**

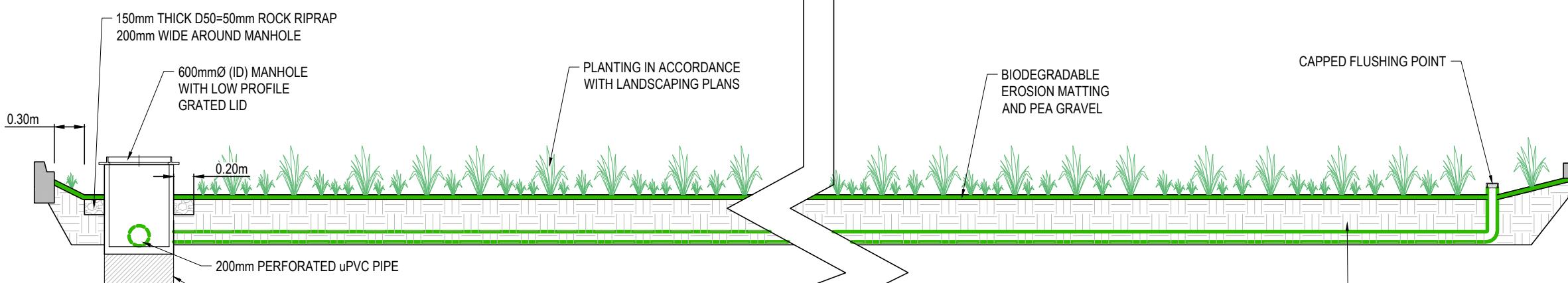
**PROPOSED
WETLAND & RAINGARDEN
DETAILS**

Project no.	289001
Scale	AS SHOWN @ A3
Cad file	289001 C4700 - SW DETAILS.DWG
Drawing no.	C4701



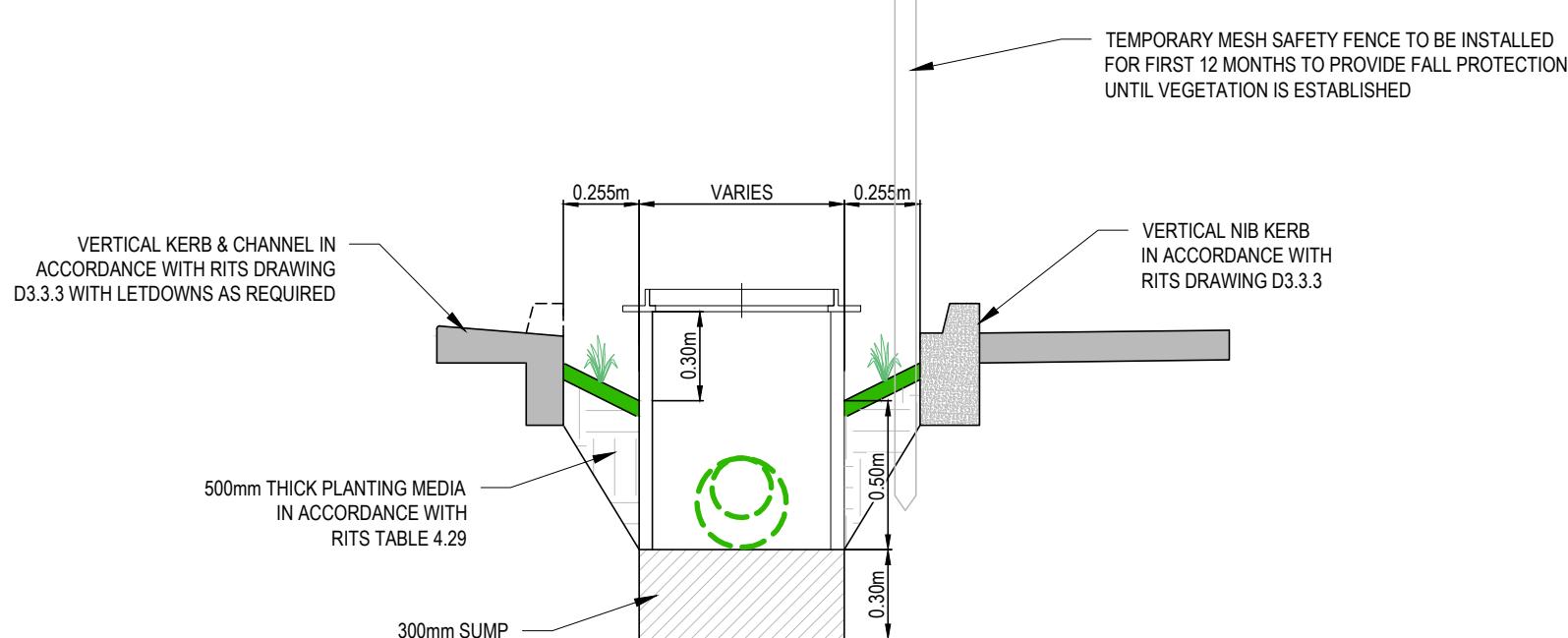
RESOURCE CONSENT

A	RESOURCE CONSENT	YZ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	11/2025	
Design	YZ	11/2025	
Drawn	YZ	11/2025	
Checked	MS	11/2025	
 Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owners Road, Epsom Auckland 1023			
Project ASHBOURNE RETIREMENT VILLAGE MATAMATA FOR UNITY DEVELOPMENT LTD			
Title PROPOSED WETLAND & RAINGARDEN DETAILS			
Project no.	289001		
Scale	NTS		
Cad file	289001 C4700.DWG		
Drawing no.	C4702	Rev	A



TYPICAL ROADSIDE RAINGARDEN PROFILE

1:50 @ A3



TYPICAL ROADSIDE RAINGARDEN PROFILE

1:25 @ A3

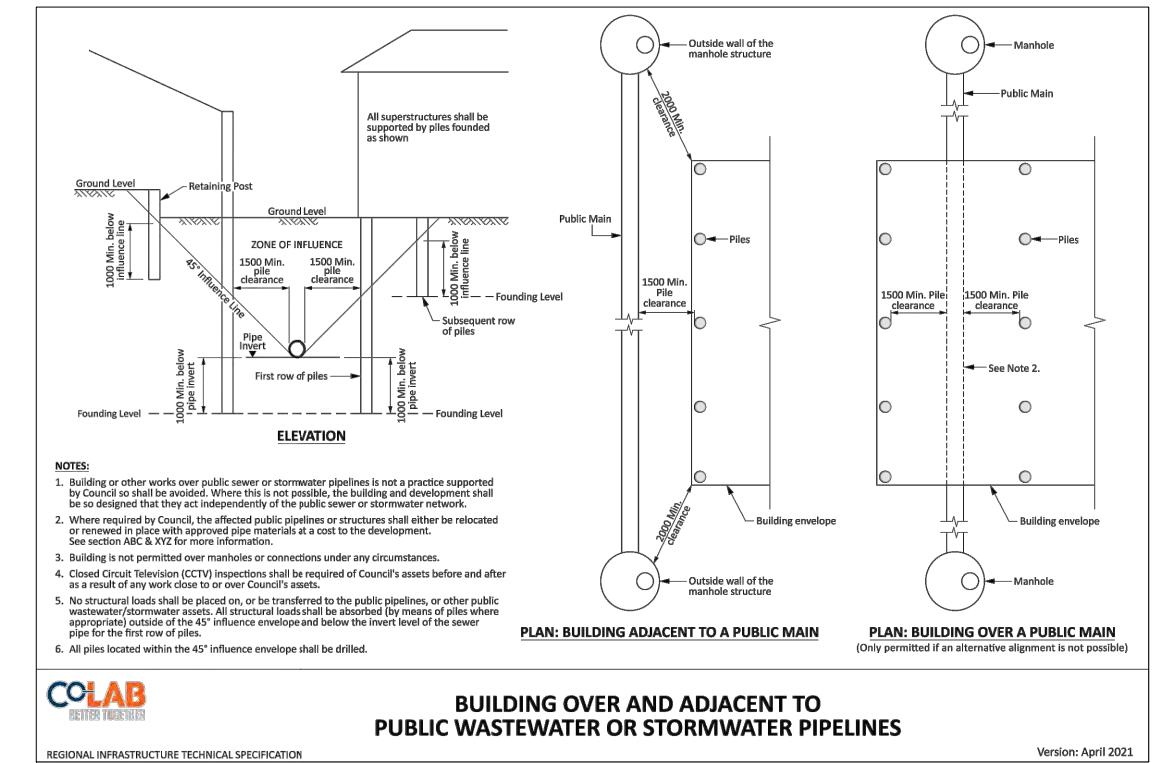
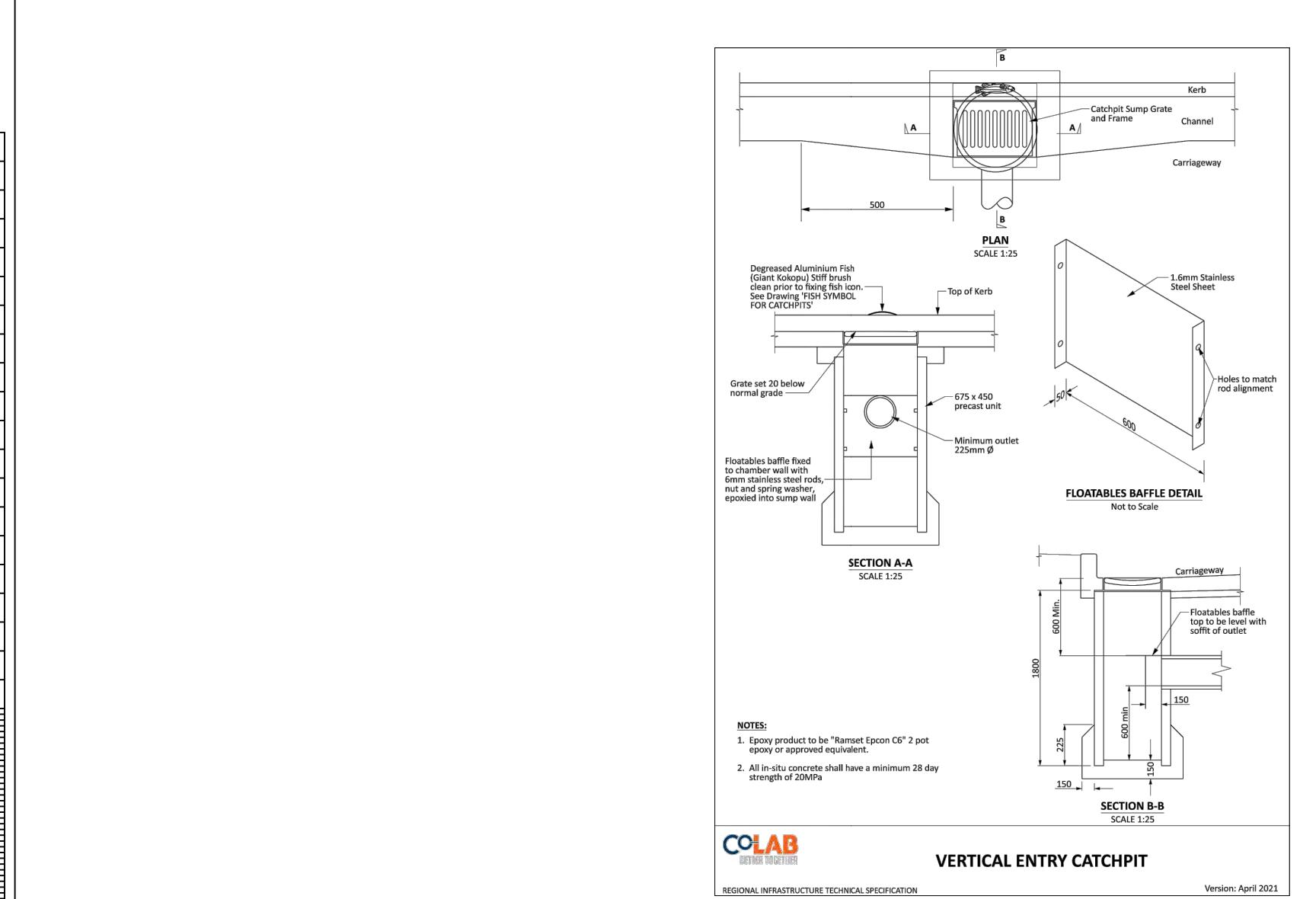
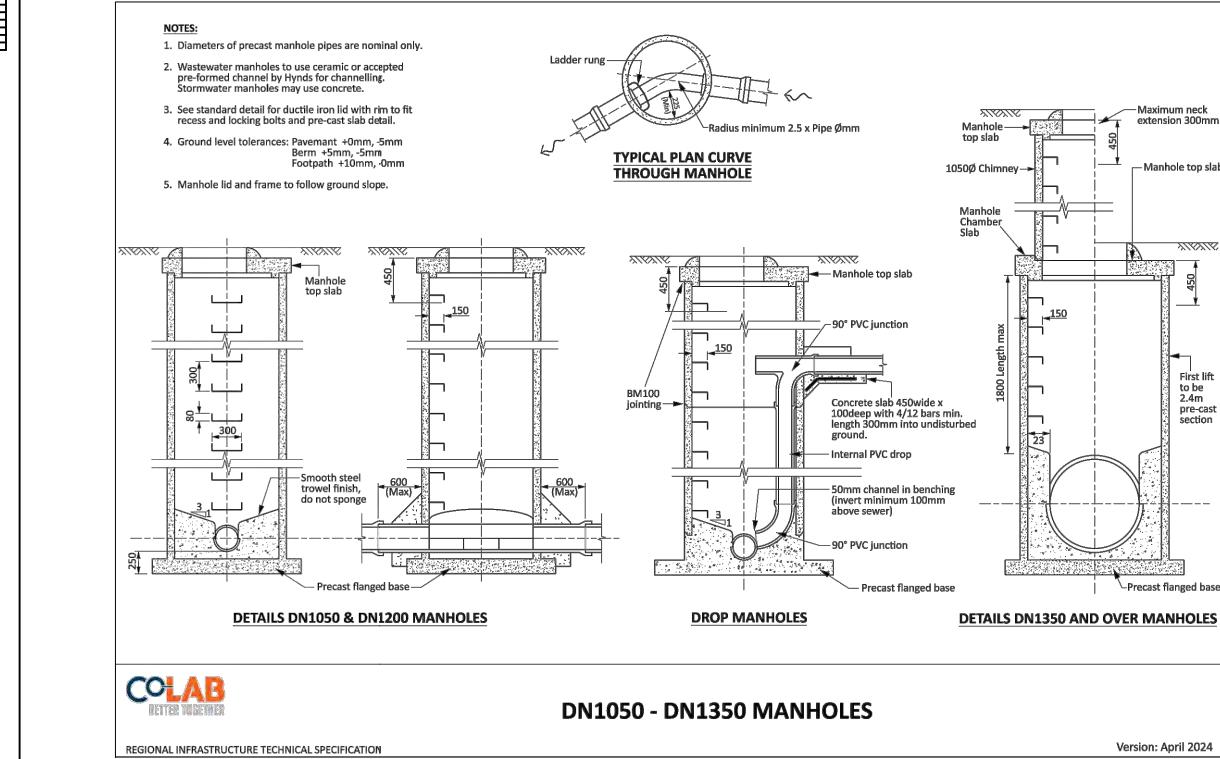
RESOURCE CONSENT

A	RESOURCE CONSENT		DIJ	11/2025
Rev	Description		By	Date
Survey	By MAVEN		Date 10/2024	
Design	By DIJ		Date 11/2025	
Drawn	By DIJ		Date 11/2025	
Checked	By MS		Date 11/2025	

Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR

Title
**PROPOSED
ROADSIDE RAINGARDEN
DETAIL**

Project no.	289001		
Scale	AS SHOWN		
Cad file	289001 C4000 - SW.DWG		
Drawing no.	C4703	Rev	A



All works to be in accordance WITH RITS standards.
All bends and connections to be no more than 45°
All connections to existing drains shall be carried out by a licensed Drainlayer/Plumber.
Drainage shall comply in full with E1/AS1 building code for storm water.
All cesspits shall have half syphons installed.
All sanitary waste drains shall be uPVC to AS/NZS 1260.
Sewer shall comply in full with AS/NZS 3500.2 - 2003 and/or G13 Building Code
Refer to Hydraulic engineers drawings for building plumbing beyond that shown including down pipe sizes.
All pipes shall be SN16 grade unless otherwise stated.
Drainlayer shall locate and confirm connection invert before starting building works.
Plans to be read in conjunction with Hydraulic Engineers and differences shall clarified be before contractor starts.
All chamber lids shall have a minimum 200mm maximum 300 throat to provide sufficient cover for landscape and pavement over the top.

	FOR CONSENT	MS	04/25
	FOR REVIEW	DP	01/25
v	Description	By	Date
Survey	MAVEN		10/2024
sign	DP		10/2024
own	DP		11/2024
checked	SB		11/2024

ject
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
TOR

e **PROPOSED STORMWATER STANDARD DETAIL**

Object no.	J00606	
Code	1:1000@A3	
File	C4800 - SW SD DETAILS.DWG	
Drawing no.	C4800	Rev B

FOR CONSENT

AVEN MATAMATA1. Projects\J00606 UDL - Hemmings Station Rd\18. Drawing\2. CAD\3. Design\C4900 - SW overland flow path -.



Notes

works to be in accordance with RITS standards.

ordinates in terms of Mount Eden 2000. Elevation Levels are in terms of NZVD 2016.

the contractors responsibility to locate all structures that may be affected by his operations.

bedding: 0 - 10% granular bedding, 10 - 20% weak concrete bedding, greater than 20% concrete bedding (7mpa plus anti scour at 6m crs).

oved hardfill is to be used in backfilling of all crossings and vehicle crossings to council standards.

ady manhole lids and frames to be used in ticked areas.

asspit leads shall have min cover 0.9m.

es to be abandoned shall be sealed at each corner of all sealing to be coordinated with council staff.

to C4700 for Soakage Tank details.

Legend

Legend
EX BDY
PROP BDY
OVERLAND FLOW

A	FOR CONSENT		DP	04/25
v	Description		By	Date
Survey	By MAVEN		Date 10/2024	
Sign	By KQ		Date 12/2024	
Own	By DP		Date 04/2024	
Checked	By SB		Date 12/2024	



MAVEN

ASHBOURNE

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RETIREMENT V

MATAMATA

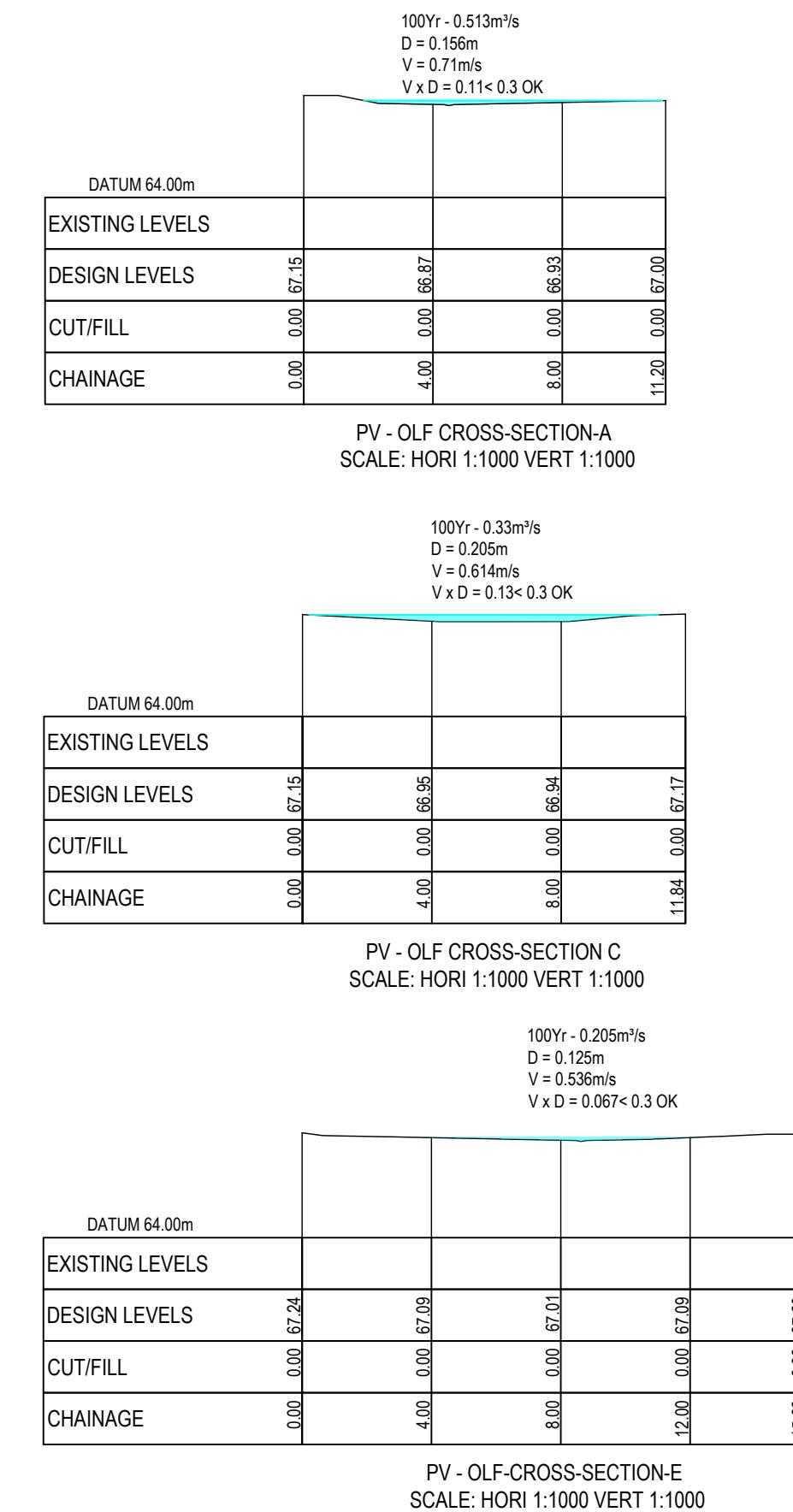
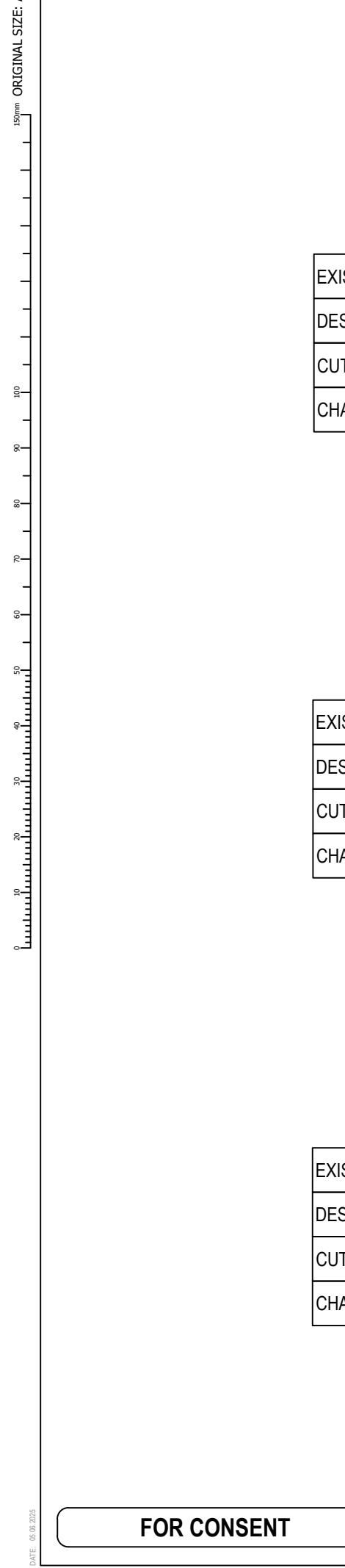
FOR

16

PROPOSED

OVERVIEW AND FLOWPATH

object no.	J00606		
scale	AS SHOWN		
ed file	C4900 - SW OVERLAND FLOW PATH - DWG		
rawing no.	C4900	Rev	A



Notes

- All works to be in accordance with RITS standards.
- Co-ordinates in terms of Mount Eden 2000.
- Reduced Levels are in terms of NZVD 2016.
- It is the contractors responsibility to locate all services that may be affected by his operations.
- Pipe bedding: 0 - 10% granular bedding, 10 - 20% weak concrete bedding, greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
- Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
- Heavy duty manhole lids and frames to be used in trafficked areas.
- All cesspit leads shall have min cover 0.9m.
- All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.
- Refer to C4700 for Soakage Tank details.

A	FOR CONSENT	DP	04/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN	10/2024	
Design	KQ	12/2024	
Drawn	DP	04/2025	
Checked	SB	12/2024	



Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

Title PROPOSED OVERLAND FLOW CROSS SECTION (1 OF 3)	
Project no.	J00606
Scale	AS SHOWN
Cad file	C4900 - SW OVERLAND FLOW PATH - DWG
Drawing no.	C4901
Rev	A

FOR CONSENT

100Yr - 0.835m³/s
D = 0.191m
V = 0.696m/s
V x D = 0.132 < 0.3 OK

DATUM 64.00m						
EXISTING LEVELS						
DESIGN LEVELS	0.00	0.00	67.12			
CUT/FILL						
CHAINAGE	0.00	4.00	8.00	12.00	14.67	14.67 0.00 67.21

PV - OLF-CROSS-SECTION-G
SCALE: Hori 1:1000 Vert 1:1000

100Yr - 0.371m³/s
D = 0.141m
V = 0.635m/s
V x D = 0.089 < 0.3 OK

DATUM 64.00m						
EXISTING LEVELS						
DESIGN LEVELS	0.00	0.00	66.97			
CUT/FILL						
CHAINAGE	0.00	4.00	8.00	11.98	0.00	67.05

PV - OLF-CROSS-SECTION-I
SCALE: Hori 1:1000 Vert 1:1000

100Yr - 0.330m³/s
D = 0.142m
V = 0.604m/s
V x D = 0.085 < 0.3 OK

DATUM 64.00m						
EXISTING LEVELS						
DESIGN LEVELS	0.00	0.00	67.89			
CUT/FILL						
CHAINAGE	0.00	4.00	8.00	12.00	12.91	0.00 67.79 67.83 67.97

PV - OLF-CROSS-SECTION-K
SCALE: Hori 1:1000 Vert 1:1000

100Yr - 1.24m³/s
D = 0.171m
V = 1.132m/s
V x D = 0.193 < 0.3 OK

DATUM 64.00m						
EXISTING LEVELS						
DESIGN LEVELS	0.00	0.00	67.07			
CUT/FILL						
CHAINAGE	0.00	4.00	8.00	12.00	14.67	0.00 67.04 67.21

PV - OLF-CROSS-SECTION-H
SCALE: Hori 1:1000 Vert 1:1000

100Yr - 0.270m³/s
D = 0.133m
V = 0.507m/s
V x D = 0.067 < 0.3 OK

DATUM 64.00m						
EXISTING LEVELS						
DESIGN LEVELs	0.00	0.00	67.87			
CUT/FILL						
CHAINAGE	0.00	4.00	8.00	12.00	16.00	0.00 67.69 67.67 67.77 67.82

PV - OLF-CROSS-SECTION-J
SCALE: Hori 1:1000 Vert 1:1000

100Yr - 0.250m³/s
D = 0.139m
V = 0.501m/s
V x D = 0.069 < 0.3 OK

DATUM 64.00m						
EXISTING LEVELS						
DESIGN LEVELS	0.00	0.00	67.86			
CUT/FILL						
CHAINAGE	0.00	4.00	8.00	12.00	15.98	0.00 67.65 67.65 67.83

PV - OLF-CROSS-SECTION-L
SCALE: Hori 1:1000 Vert 1:1000

Notes

- All works to be in accordance with RITS standards.
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- Reduced Levels are in terms of NZVD 2016.
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- Pipe bedding: 0 - 10% granular bedding, 10 - 20% weak concrete bedding, greater than 20% weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
- Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to council standards.
- Heavy duty manhole lids and frames to be used in trafficked areas.
- All cesspit leads shall have min cover 0.9m.
- All lines to be abandoned shall be sealed at each end. timing of all sealing to be coordinated with council staff.
- Refer to C4700 for Soakage Tank details.

A	FOR CONSENT	DP	04/25
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	KQ	11/2024	
Drawn	DP	04/2024	
Checked	SB	12/2024	



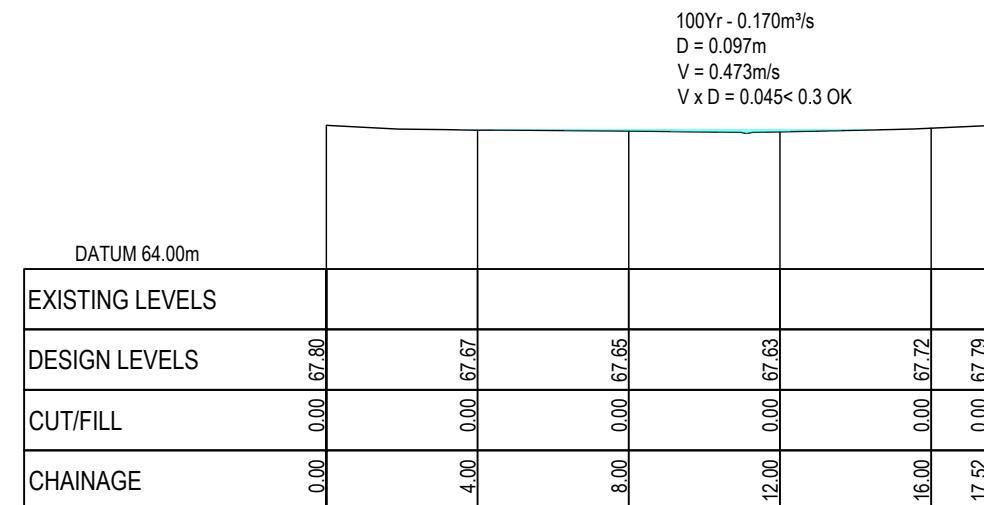
Maven Matamata
matamatainfo@maven.co.nz
www.maven.co.nz
8 Tainui Street, Matamata
New Zealand

Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD

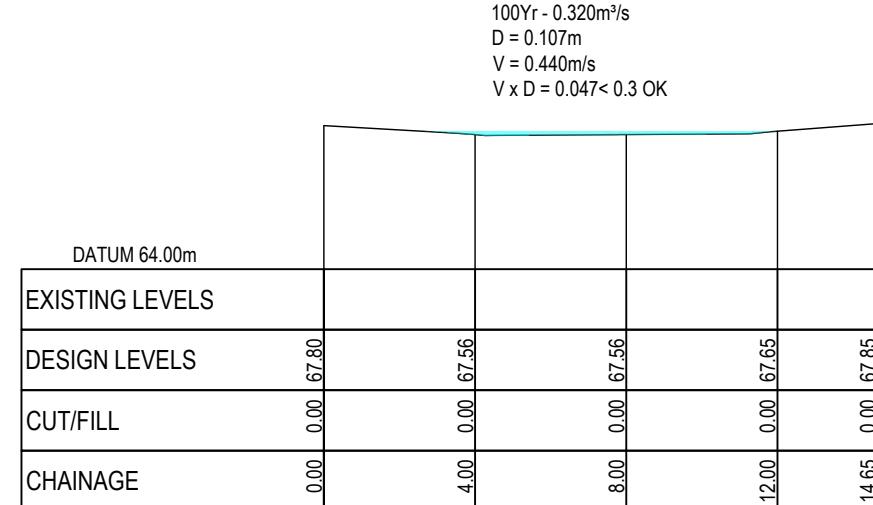
Title
PROPOSED
OVERLAND FLOW
CROSS SECTION (2 OF 3)

Project no.	J00606
Scale	AS SHOWN
Cad file	C4900 - SW OVERLAND FLOW PATH - DWG
Drawing no.	C4902

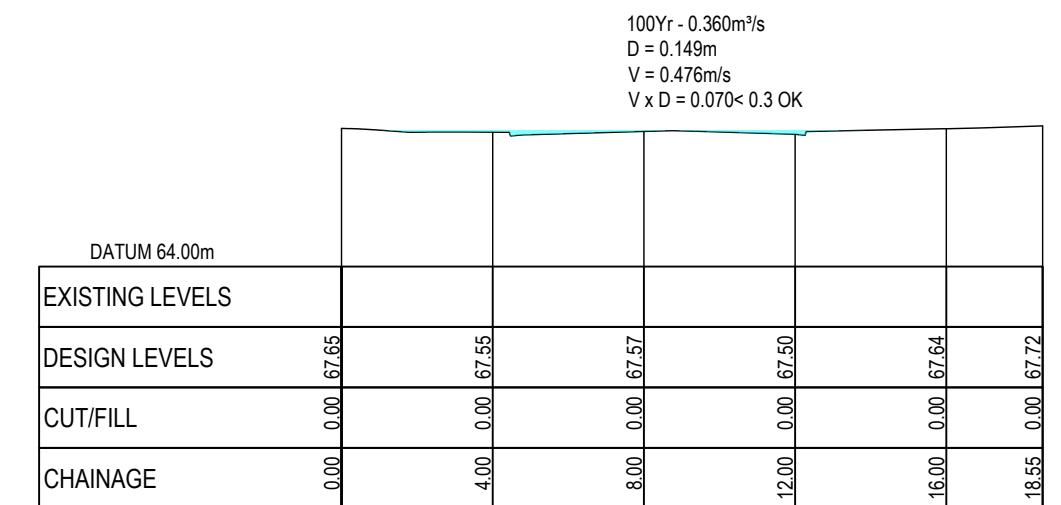
FOR CONSENT



PV - OLF-CROSS SECTION-M
SCALE: Hori 1:1000 Vert 1:1000



PV - OLF-CROSS SECTION-N
SCALE: Hori 1:1000 Vert 1:1000



PV - OLF-CROSS SECTION-O
SCALE: Hori 1:1000 Vert 1:1000

FOR CONSENT

Notes

1. All works to be in accordance with RITS standards.
2. Co-ordinates in terms of Mount Eden 2000.
3. Reduced Levels are in terms of NZVD 2016.
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A	FOR COSENT	DP	01/25
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	KQ	11/2024	
Drawn	DP	04/2024	
checked	SP	10/2024	



Project
ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR

Title
**PROPOSED
OVERLAND FLOW
CROSS SECTION (3 OF 3)**

Project no.	J00606		
Scale	AS SHOWN		
Cad file	C4900 - SW OVERLAND FLOW PATH		
Drawing no.	C4903	Rev	A