

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. FINAL PAVEMENT DESIGN SUBJECT TO CBR/BEAM TESTS ON SUBGRADE MATERIAL.
 3. SETOUT SCHEDULE WITH COORDINATES OF CHAINAGE POINTS ALONG ROAD CENTRELINE TO BE SUPPLIED TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
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LEGEND	
	EXTENT OF WORK
	EX BDY
	PR BDY
	PR SWCP DOUBLE/SINGLE
	PR CARRIAGEWAY
	PR BERMLANDSCAPE
	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
	PR IN-GROUND PALISADE WALL
	PR ENG. EARTH WALL
	PR SW POND
	PR BUILDING

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	IZ		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025



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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROADING
OVERVIEW PLAN**

Project no.	147016		
Scale	1:10,000 @ A3		
Cad file	147016-RV-C300 ROADING.DWG		
Drawing no.	C300	Rev	A



STAGE 14

FORESTRY ROAD EXTENSION

PR SW POND

RESOURCE CONSENT

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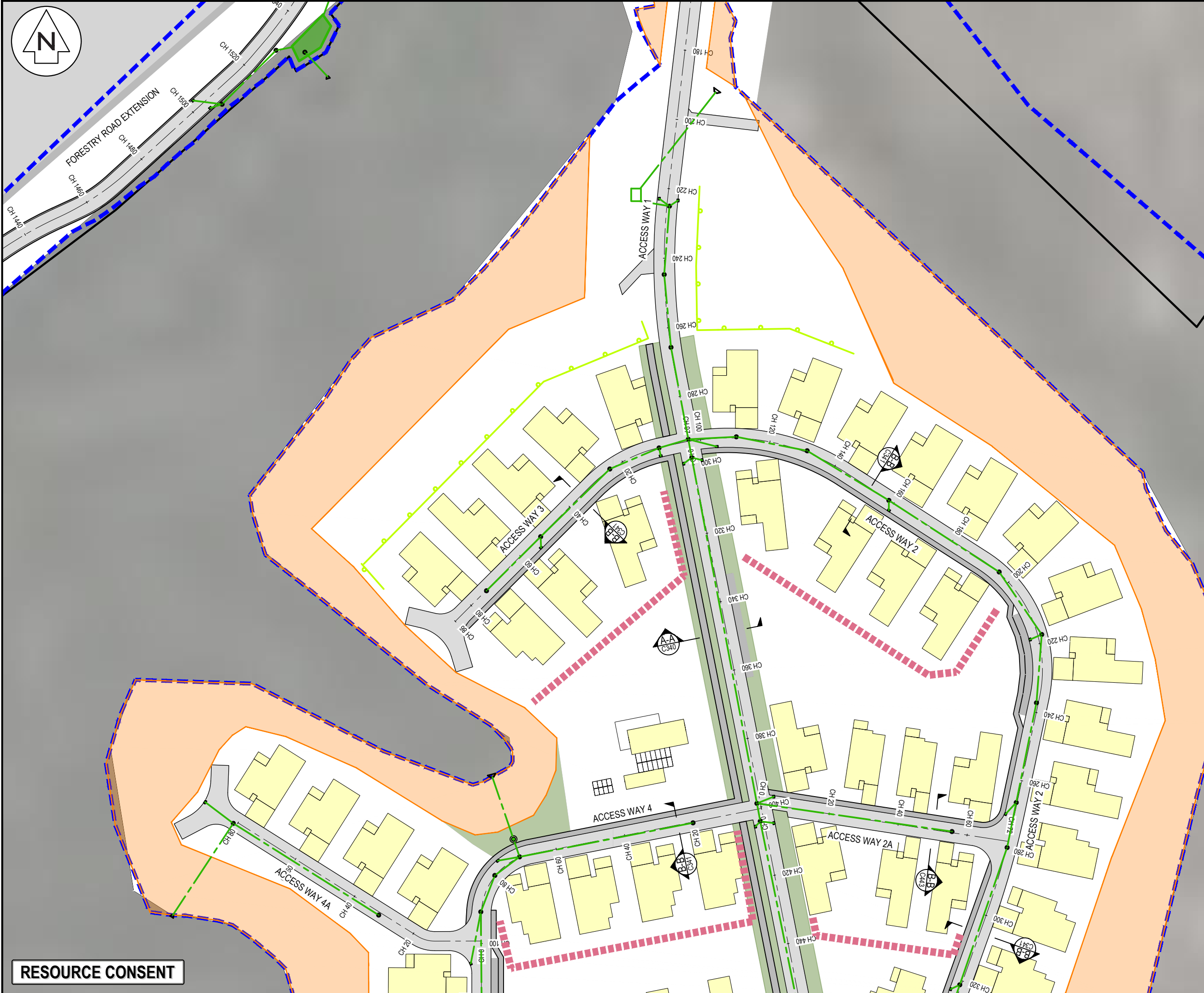
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**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED
ROADING PLAN**

Project no.	147016
Scale	1:4000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-0
Rev	A



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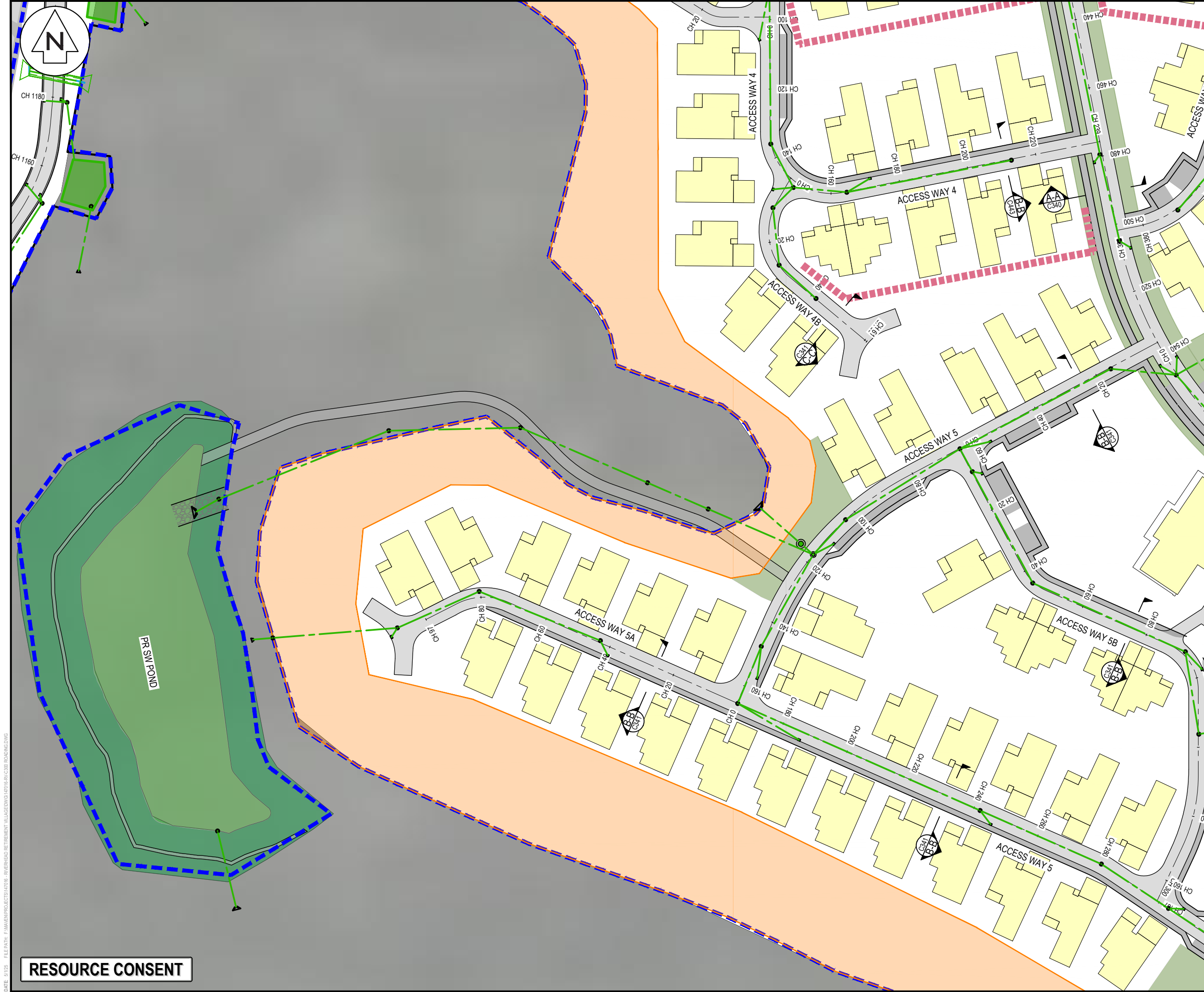
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Title
**RETIREMENT VILLAGE
PROPOSED
ROADING PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-1
Rev	A

RESOURCE CONSENT



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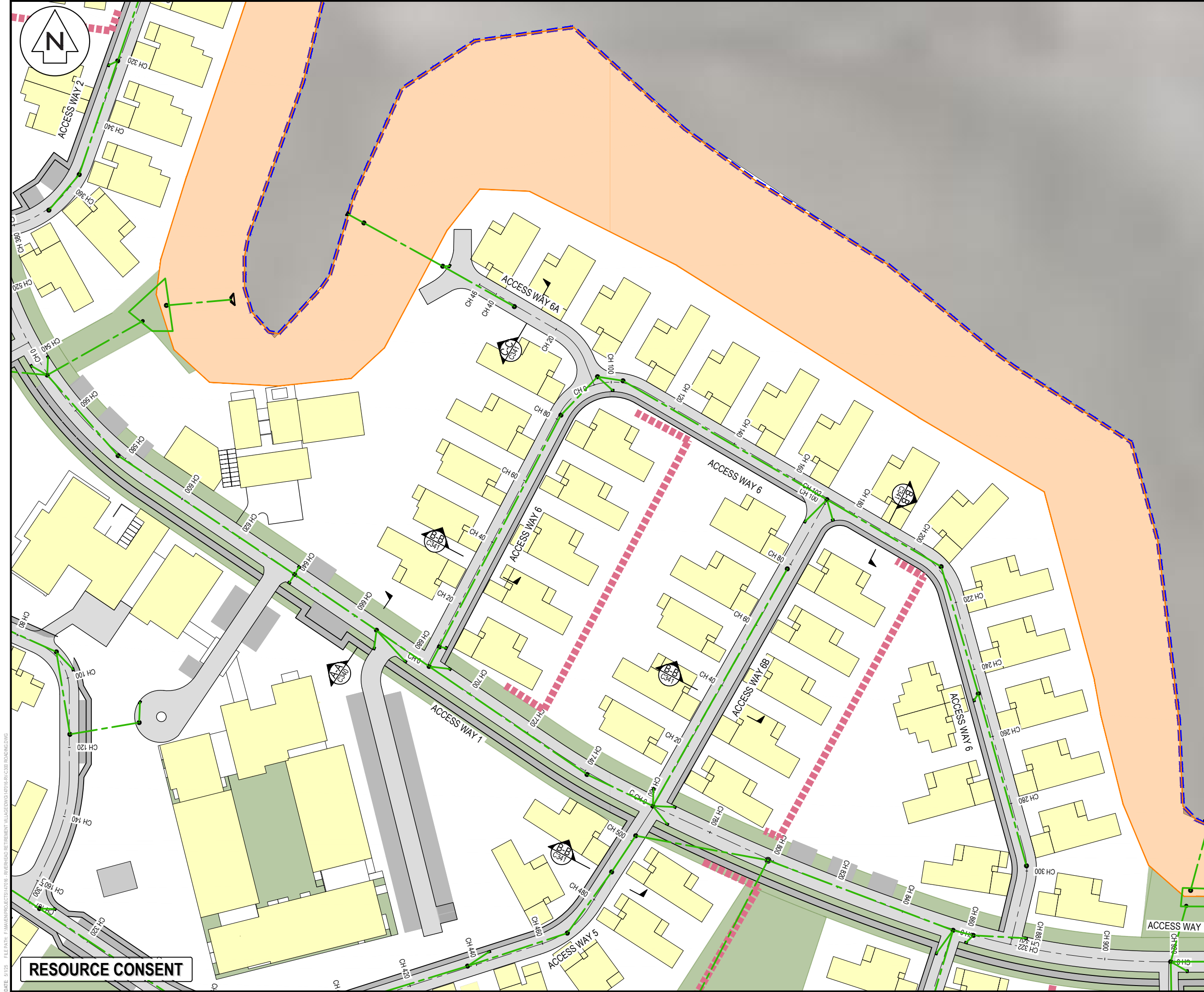
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Project
**DEVELOPMENT OF
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DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED
RAODING PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADNG.DWG
Drawing no.	C300-2
Rev	A

RESOURCE CONSENT



NOTES

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DEVELOPMENTS LIMITED
PARTNERSHIP**

Title

**RETIREMENT VILLAGE
PROPOSED
ROADING PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-3
Rev	A

DATE: 5/05/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG

RESOURCE CONSENT



DATE: 5/12/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWGS\147016-RV-C300-ROADING.DWG

RESOURCE CONSENT

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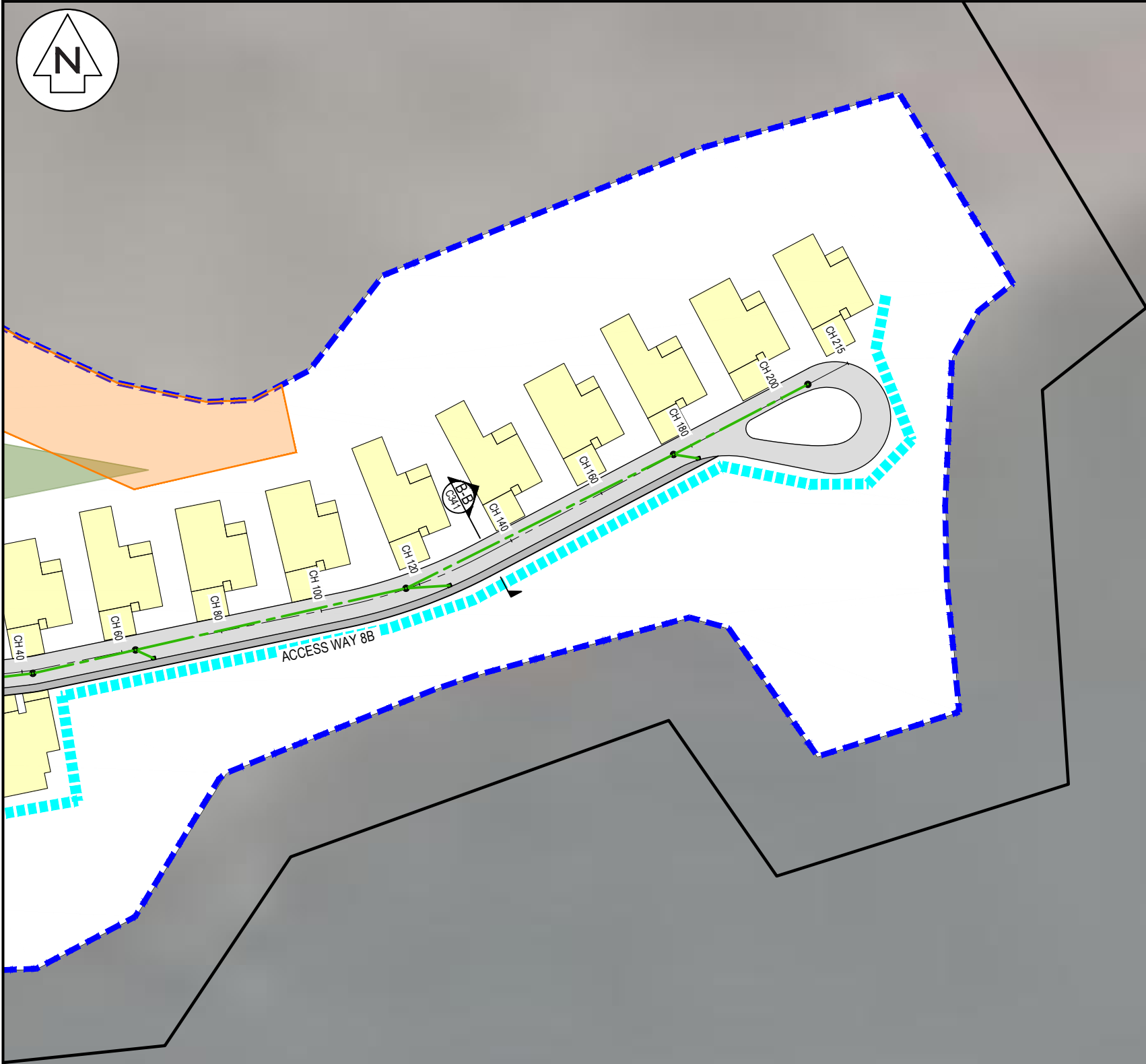
A	RESOURCE CONSENT	SP	03/2025
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Survey	LIDAR		03/2022
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED
ROADING PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300-ROADING.DWG
Drawing no.	C300-4
Rev	A



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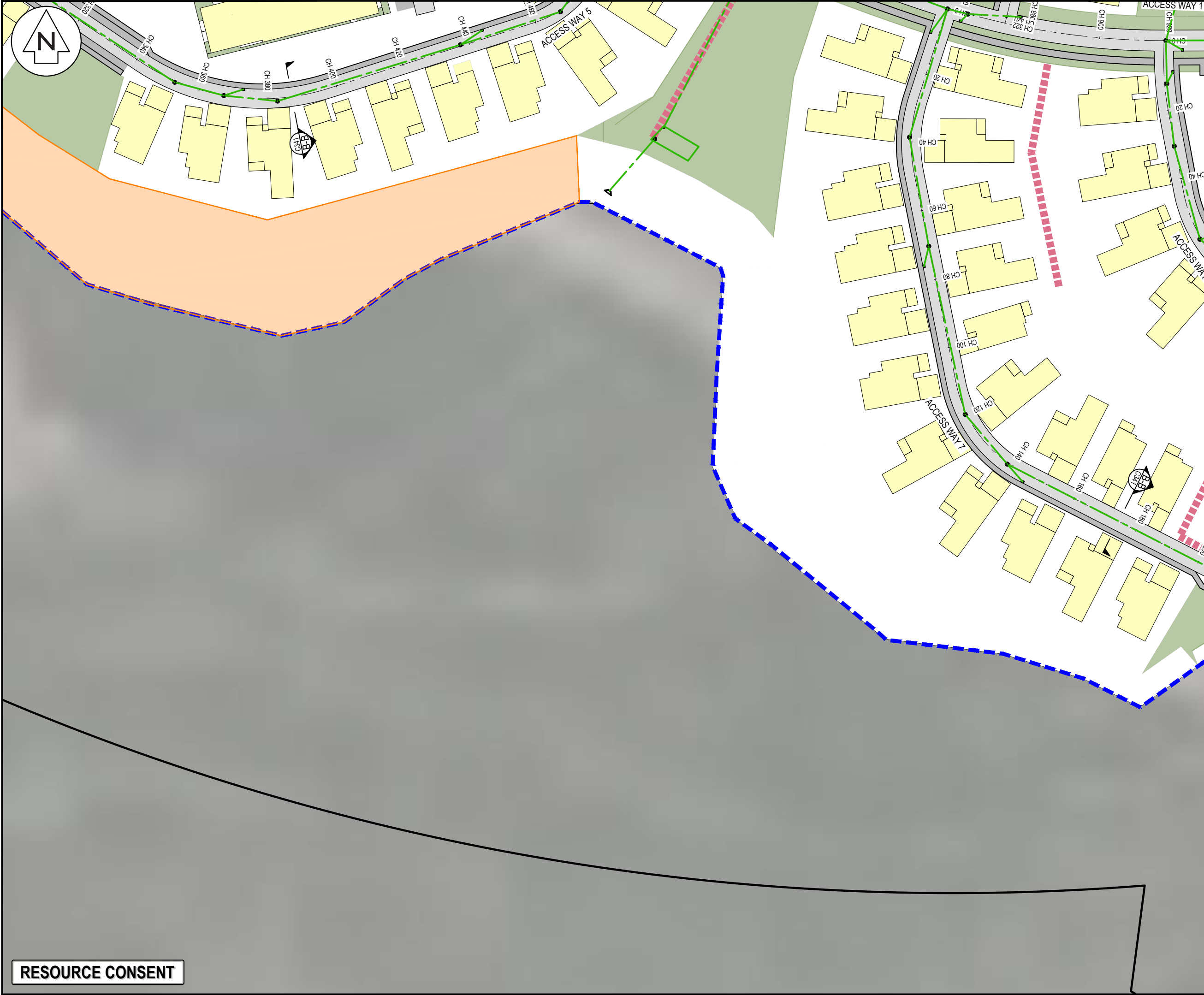
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title

**RETIREMENT VILLAGE
PROPOSED
ROADING PLAN**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C300 ROADING.DWG		
Drawing no.	C300-5	Rev	A

RESOURCE CONSENT



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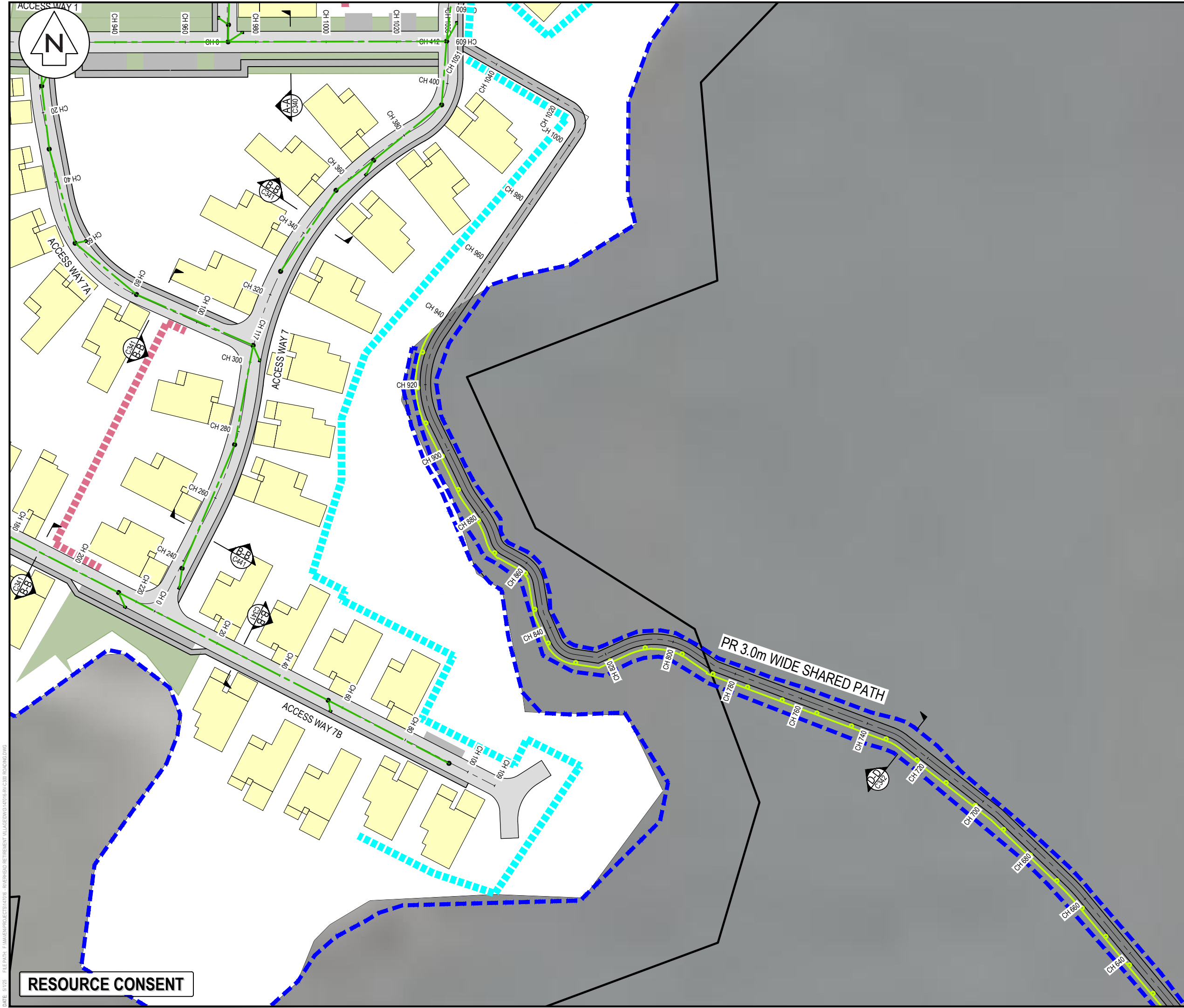
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**DEVELOPMENT OF
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Title

**RETIREMENT VILLAGE
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ROADING PLAN**

Project no.	147016		
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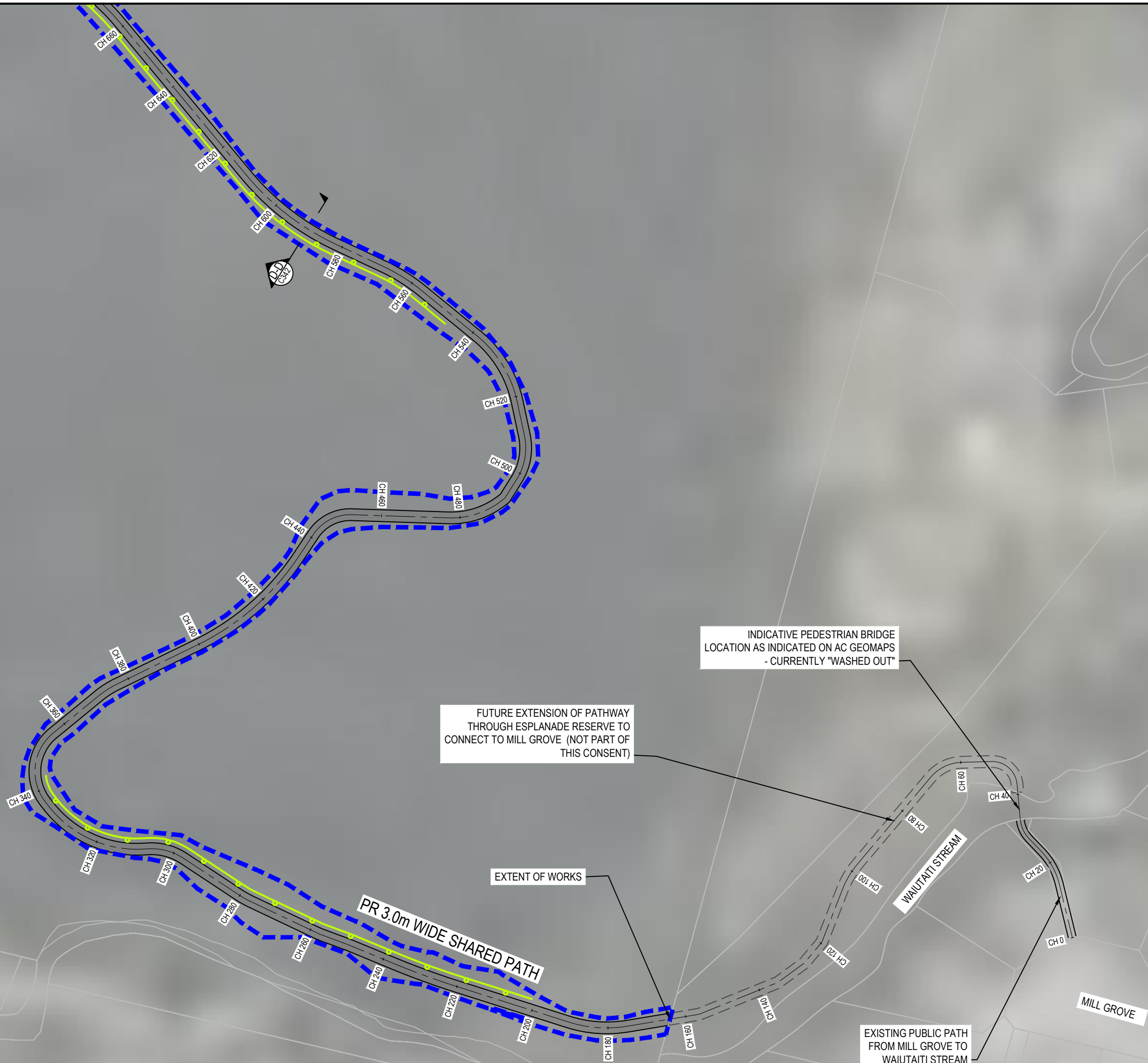


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 6. ALL KERB AND CHANNEL TO HAVE SAW CUTS AT MAX 3m CENTRES. ALL SAW CUTS TO COINCIDE WITH FOOTPATH JOINTS.
 7. ALL STREET NAME SIGNS SHALL FOLLOW ATCOP GUIDELINES IN TERMS OF LAYOUT, CLEARANCES, AND CONSTRUCTION DETAILS.
 8. THE MINIMUM VERTICAL AND LATERAL CLEARANCES FOR SIGNAGE SHALL BE IN ACCORDANCE WITH MOTSAM STANDARDS.
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 10. ALL NEW, MODIFIED OR UPGRADED PRAM CROSSINGS MUST BE IN ACCORDANCE WITH RTS 14 GUIDELINES FOR FACILITIES FOR BLIND AND VISION-IMPAIRED PEDESTRIANS AND NZS/AS 1428.4 AND MUST COMPLY WITH THE DETAILS PROVIDED IN AT'S STANDARD PLAN No.FP006.

LEGEND	
	EXTENT OF WORK
	EX BDY
	PR BDY
	PR SWCP DOUBLE/SINGLE
	PR CARRIAGEWAY
	PR BERMLANDSCAPE
	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
	PR IN-GROUND PALISADE WALL
	PR ENG. EARTH WALL
	PR SW POND
	PR BUILDING

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	Survey	LiDAR	03/2022
	Design	IZ	03/2025
	Drawn	SP	03/2025
	Checked	RW/KH	03/2025



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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED
ROADING PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-8
Rev	A

RESOURCE CONSENT



SAWMILL ROAD

63 FORESTRY ROAD
LOT 1 DP 329465,
LOT 3 DP 64224

EX ROAD CENTRELINE

EX VEHICLE CROSSING TO BE
UPGRADED TO TIE INTO NEW
ROAD ALIGNMENT

RETAINED HEIGHT

EX TREES

FORESTRY ROAD

PROP ROAD UPGRADE TIE INTO
EXISTING ROAD FORMATION

EX VEHICLE CROSSING TO BE
UPGRADED TO TIE INTO NEW
ROAD ALIGNMENT

EDGE OF PROP ROAD
EDGE OF EXISTING ROAD

EX TREE TO BE REMOVED

EX VEHICLE CROSSING TO BE
UPGRADED TO TIE INTO NEW
ROAD ALIGNMENT

EX POWER POLE TO BE
UNDER GROUNDED AS
REQUIRED

EX TREE DRIP LINE

50 FORESTRY ROAD
LOT 6 DP 60666

64 FORESTRY ROAD
LOT 7 DP 60666

44 FORESTRY ROAD
LOT 5 DP 60666

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. FINAL PAVEMENT DESIGN SUBJECT TO CBR/BEAM TESTS ON SUBGRADE MATERIAL.
 3. SETOUT SCHEDULE WITH COORDINATES OF CHAINAGE POINTS ALONG ROAD CENTRELINE TO BE SUPPLIED TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
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LEGEND

	EXTENT OF WORK
	EX BDY
	PR BDY
	PR SWCP DOUBLE/SINGLE
	PR CARRIAGEWAY
	PR BERM/LANDSCAPE
	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
	PR IN-GROUND PALISADE WALL
	PR ENG. EARTH WALL
	PR SW POND
	PR BUILDING

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	IZ		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-9
Rev	A

RESOURCE CONSENT



63 FORESTRY ROAD
LOT 1 DP 329465, LOT
3 DP 64224

85 FORESTRY ROAD
LOT 2 DP 64224

93 FORESTRY ROAD
LOT 1 DP 64224

100 FORESTRY ROAD
LOT 8 DP 60666

EX ROAD CENTRELINE

EDGE OF PROPOSED ROAD

RETAINED HEIGHT

EX VEHICLE CROSSING TO BE
UPGRADED TO TIE INTO NEW
ROAD ALIGNMENT
EX TREES TO BE REMOVED

EX VEHICLE CROSSING TO BE
UPGRADED TO TIE INTO NEW
ROAD ALIGNMENT

EX TREES

EX TREES

EX TREES

FORESTRY ROAD

EDGE OF EXISTING ROAD

PROP RETAINING WALL

EX TREE TO BE REMOVED

EX EDGE OF METAL ROAD

EX POWER POLE TO BE
UNDER GROUNDED AS
REQUIRED

EX POWER POLE TO BE
UNDER GROUNDED AS
REQUIRED

EX POWER POLE TO BE
UNDER GROUNDED AS
REQUIRED

EX POWER POLES
TO BE
UNDERGROUNDED
AS REQUIRED

EX VEHICLE CROSSING TO BE
UPGRADED TO TIE INTO NEW
ROAD ALIGNMENT

NOTES

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- PR ENG. EARTH WALL
- PR SW POND
- PR BUILDING

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	IZ		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-10
Rev	A

RESOURCE CONSENT



EXTENT OF EXISTING LEGAL ROAD AND TIE INTO PROPOSED FORESTRY ROAD EXTENSION TO BE VESTED AS PUBLIC

RETAINED HEIGHT

FORESTRY ROAD

FORESTRY ROAD EXTENSION

EX ROAD CENTRELINE

PROP SW RAINGARDEN

EX TREES

PROP SW RAINGARDEN

EX TREE DRIP LINE

EX TREE TO BE REMOVED

EX EDGE OF EX ROAD

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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	PR BERM/LANDSCAPE
	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
	PR IN-GROUND PALISADE WALL
	PR ENG. EARTH WALL
	PR SW POND
	PR BUILDING

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	03/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	



Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-11
Rev	A

RESOURCE CONSENT



- NOTES
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A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	IZ		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

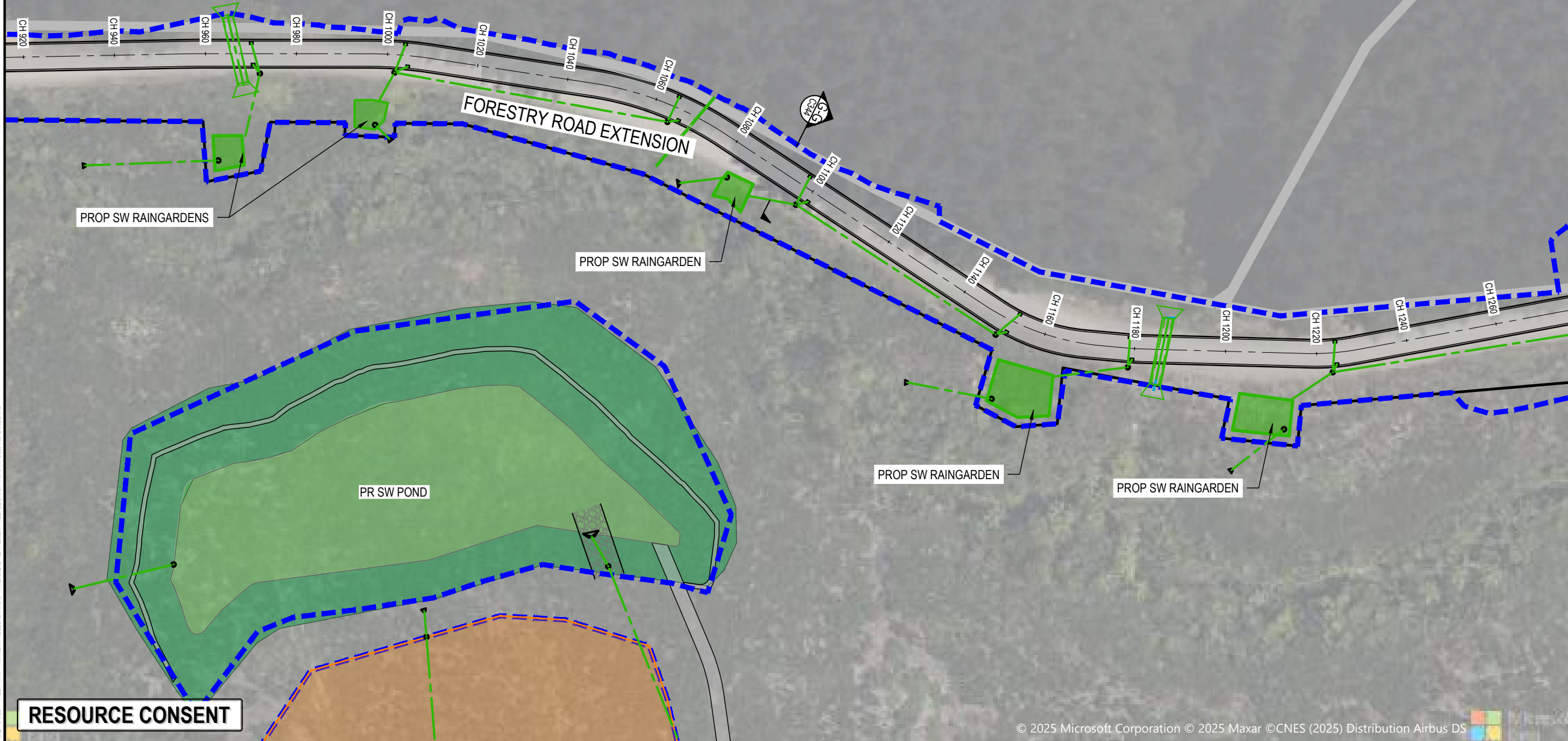


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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-12
Rev	A





- NOTES
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- LEGEND
- EXTENT OF WORK
 - EX BDY
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A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	03/2025	
Drawn	SP	03/2025	
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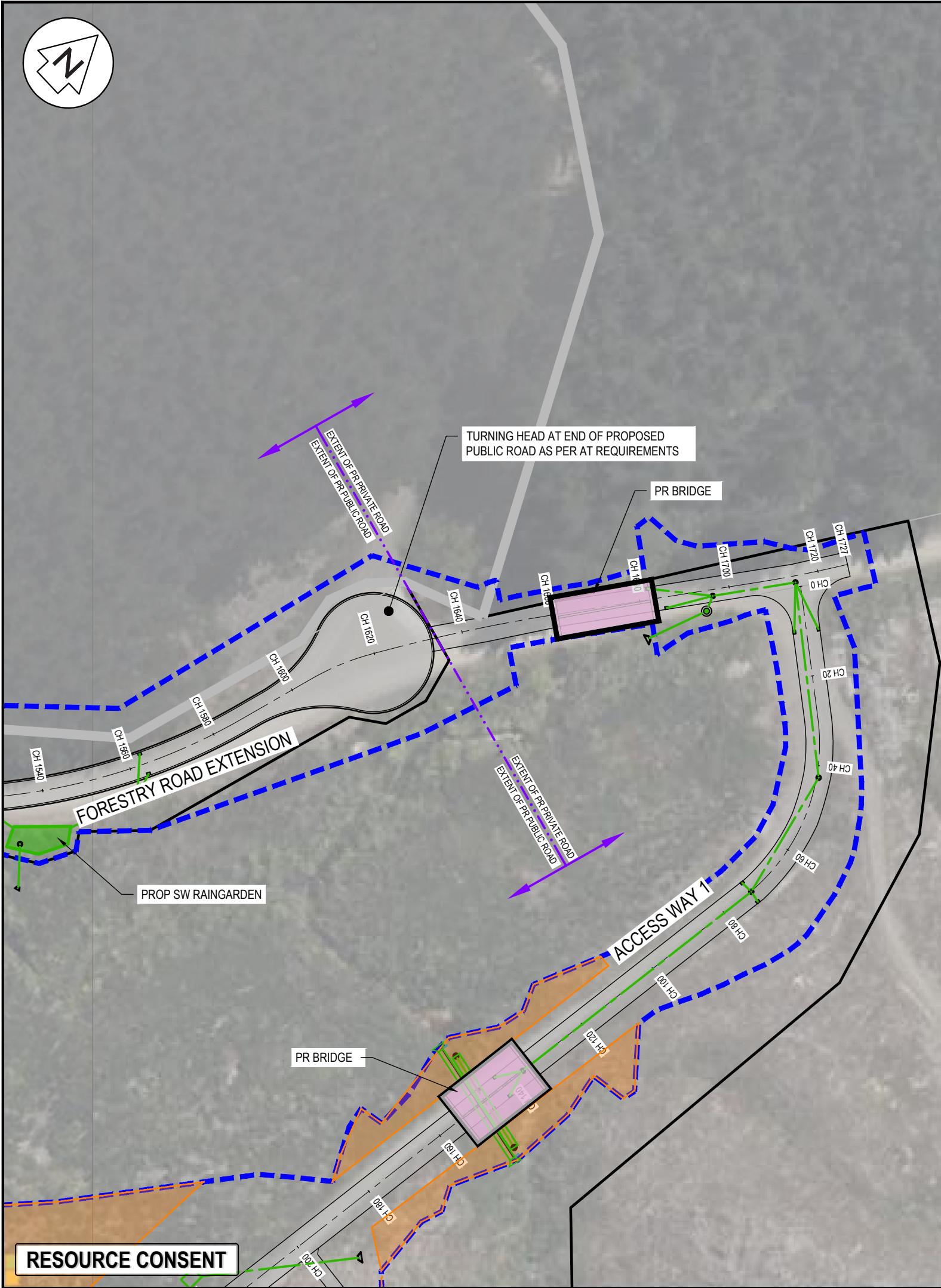
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-13
Rev	A



DATE: 5/02/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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LEGEND	
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	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
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	PR BUILDING

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LiDAR		03/2022
Design	IZ		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

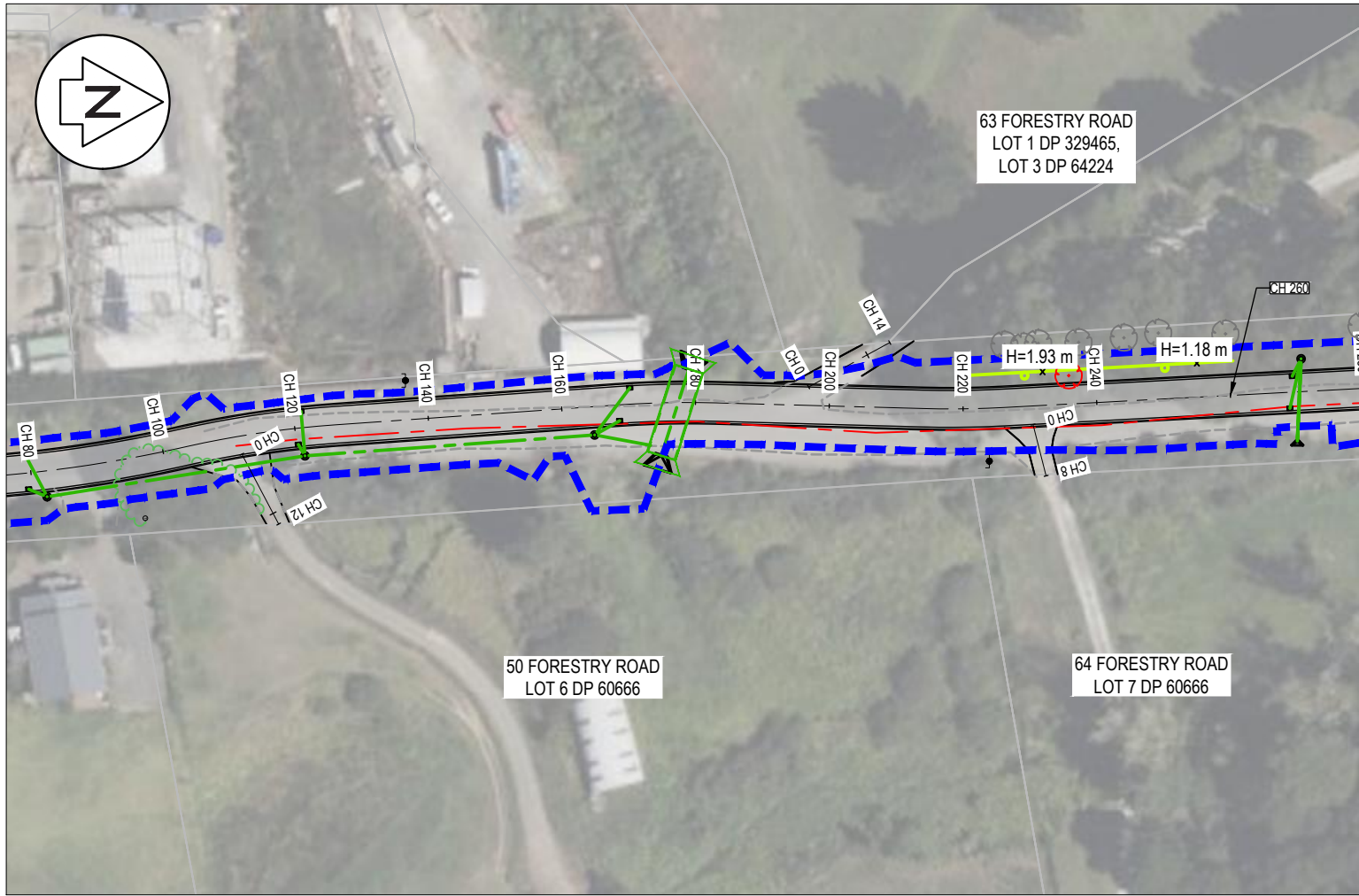


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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
EXTENSION PLAN**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C300 ROADING.DWG		
Drawing no.	C300-14	Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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LEGEND

---	EX GROUND LEVEL
---	PR FORESTRY ROAD LEVEL
---	PR VEHICLE CROSSING TIE IN

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	03/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

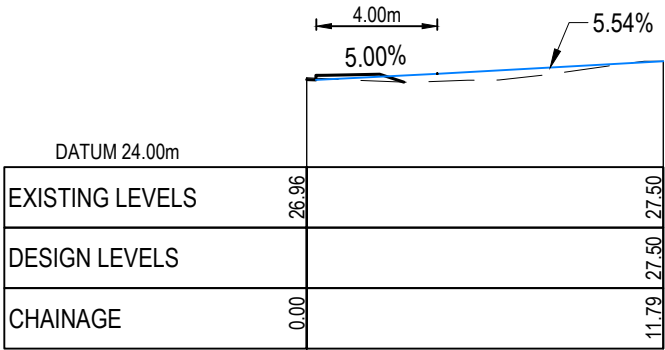


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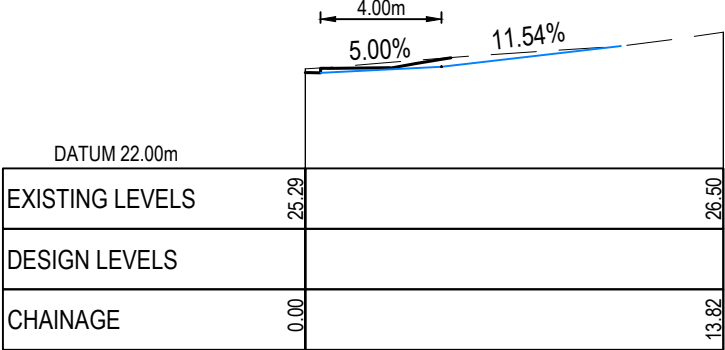
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
VEHICLE CROSSINGS**

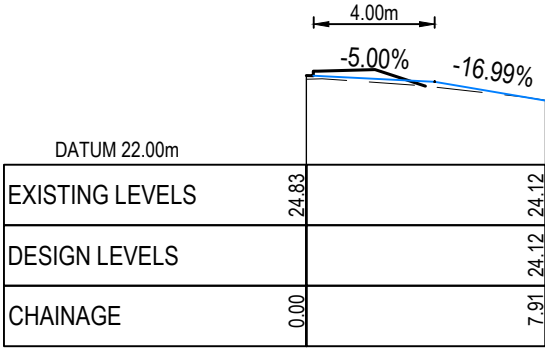
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C300 ROADING.DWG		
Drawing no.	C300-15	Rev	A



50 FORESTRY ROAD
SCALE: HORI 1:1000 VERT 1:1000

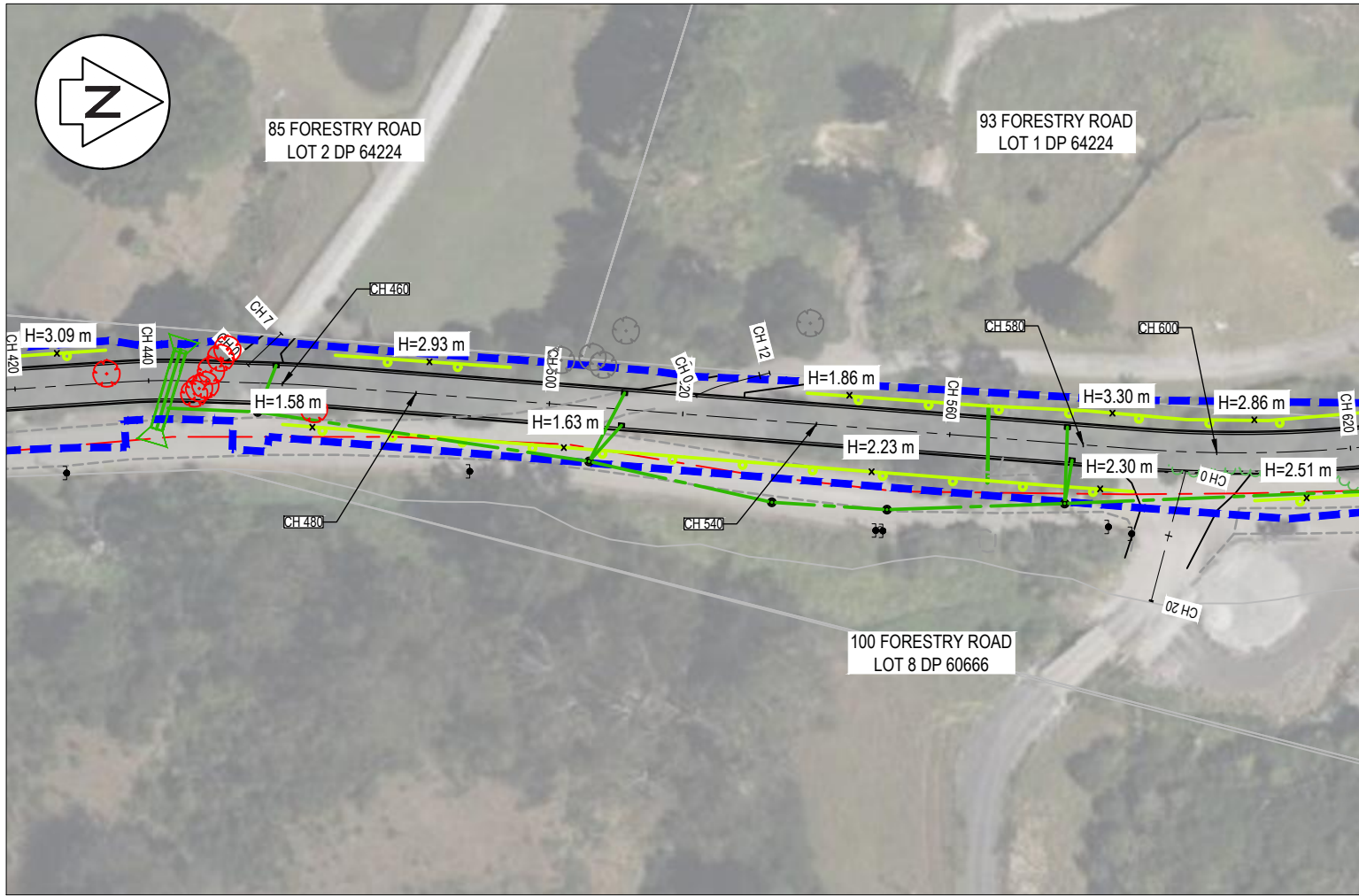


63 FORESTRY ROAD
SCALE: HORI 1:1000 VERT 1:1000



64 FORESTRY ROAD
SCALE: HORI 1:1000 VERT 1:1000

RESOURCE CONSENT



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 8. THE MINIMUM VERTICAL AND LATERAL CLEARANCES FOR SIGNAGE SHALL BE IN ACCORDANCE WITH MOTSAM STANDARDS.
 9. STREET LIGHTING SHALL BE DESIGNED IN ACCORDANCE WITH ALL APPLICABLE NEW ZEALAND STANDARDS INCLUDING BUT NOT RESTRICTED TO THE CURRENT VERSION OF AS/NZS 1158 LIGHTING FOR ROADS AND PUBLIC SPACES SERIES OF STANDARDS.
 10. ALL NEW, MODIFIED OR UPGRADED PRAM CROSSINGS MUST BE IN ACCORDANCE WITH RTS 14 GUIDELINES FOR FACILITIES FOR BLIND AND VISION-IMPAIRED PEDESTRIANS AND NZS/AS 1428.4 AND MUST COMPLY WITH THE DETAILS PROVIDED IN AT'S STANDARD PLAN No.FP006.

LEGEND

---	EX GROUND LEVEL
---	PR FORESTRY ROAD LEVEL
---	PR VEHICLE CROSSING TIE IN

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	03/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

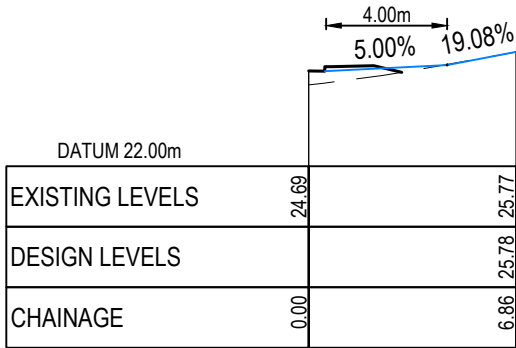


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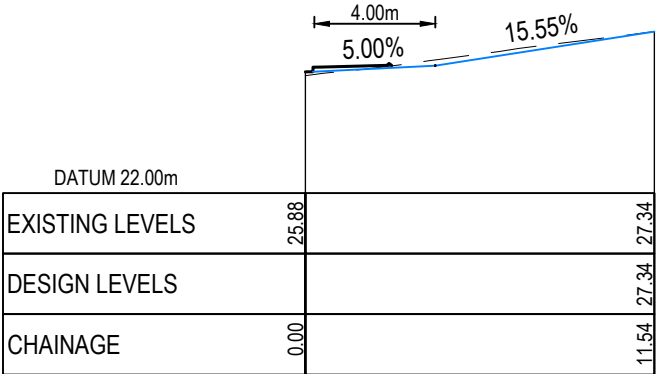
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY ROAD
VEHICLE CROSSINGS**

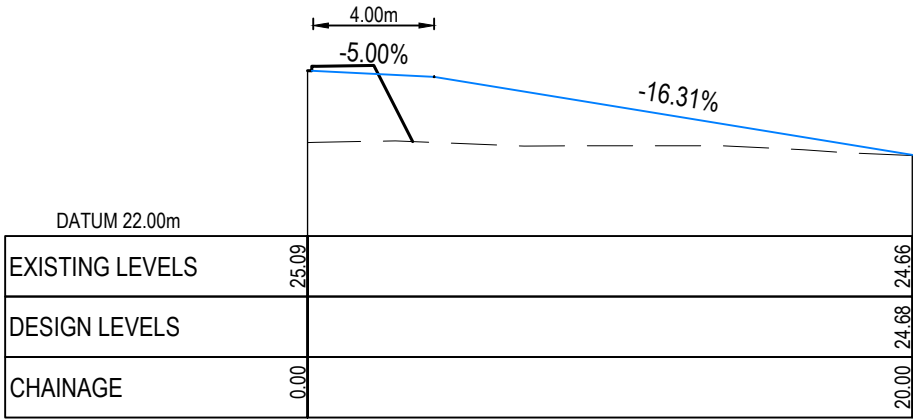
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Scale	1:1000 @ A3		
Cad file	147016-RV-C300 ROADING.DWG		
Drawing no.	C300-16	Rev	A



85 FORESTRY ROAD
SCALE: HORI 1:1000 VERT 1:1000



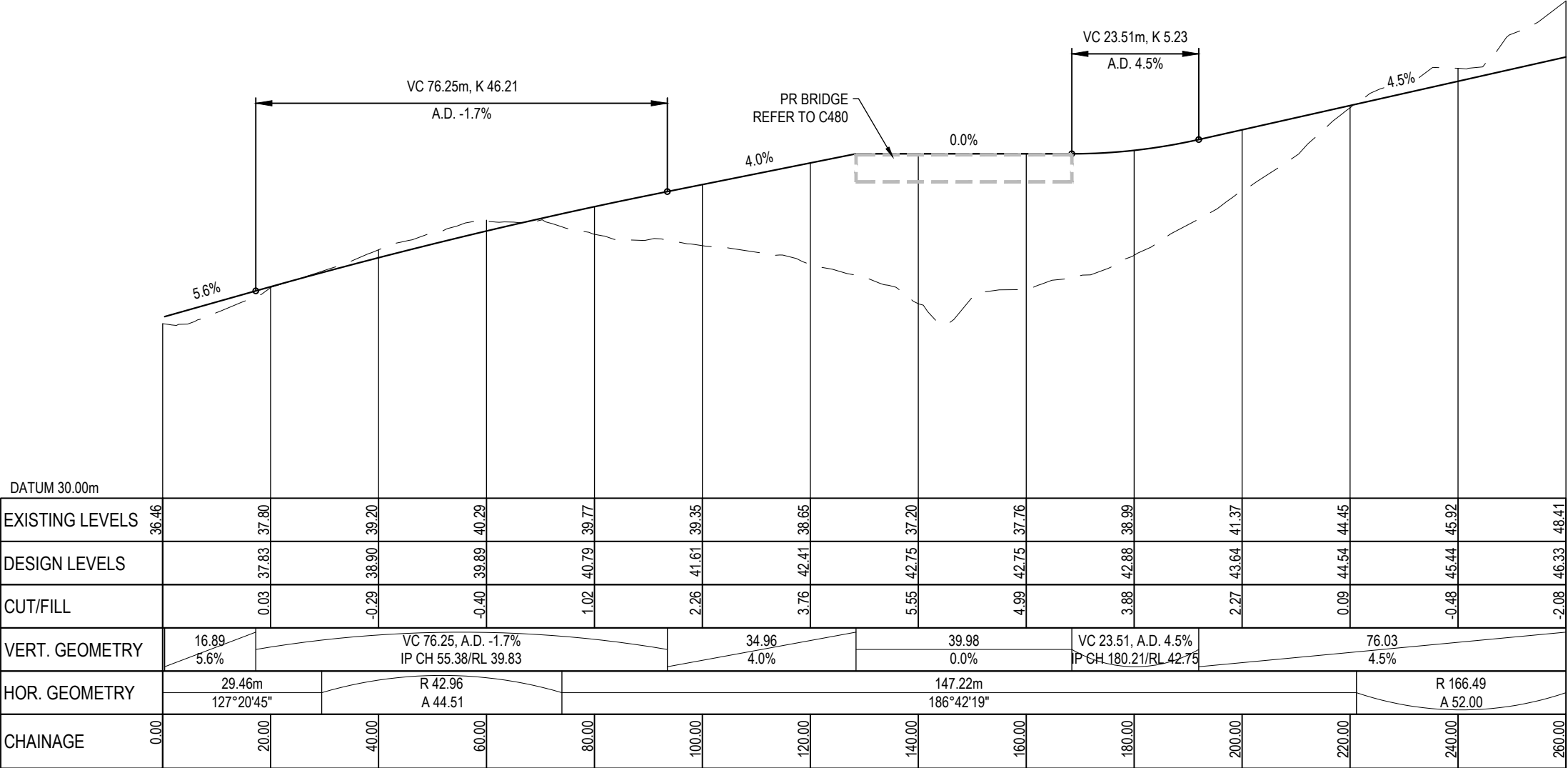
93 FORESTRY ROAD
SCALE: HORI 1:1000 VERT 1:1000



100 FORESTRY ROAD
SCALE: HORI 1:1000 VERT 1:1000

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320 ROADING.LSDWG



PR ACCESS WAY 1 LONGSECTION (CH 0 - CH260)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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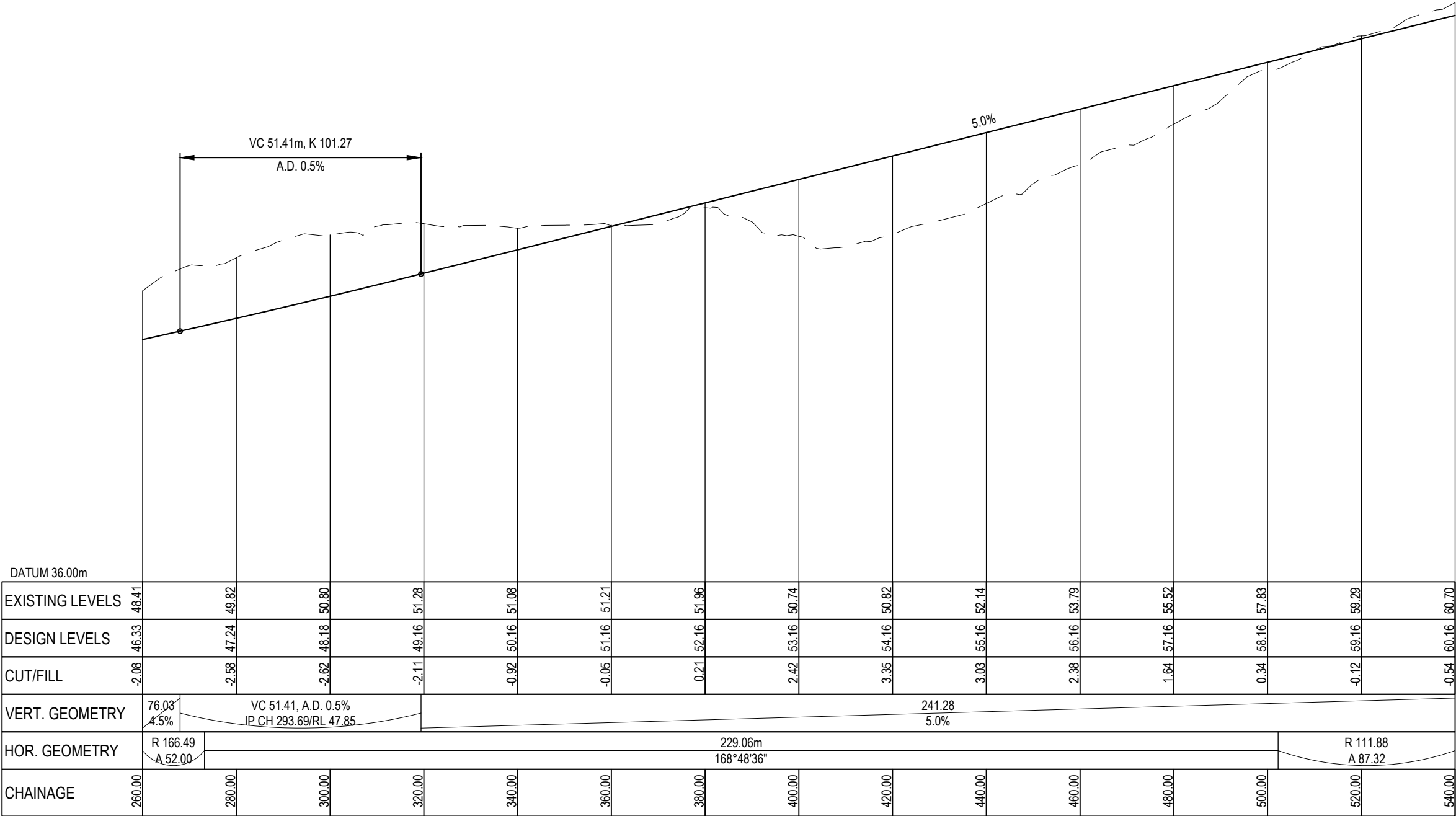
Auckland 1023

Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING LS.DWG		
Drawing no.	C320	Rev	A

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320 ROADING.LSDWG



PR ACCESS WAY 1 LONGSECTION (CH260 - CH540)
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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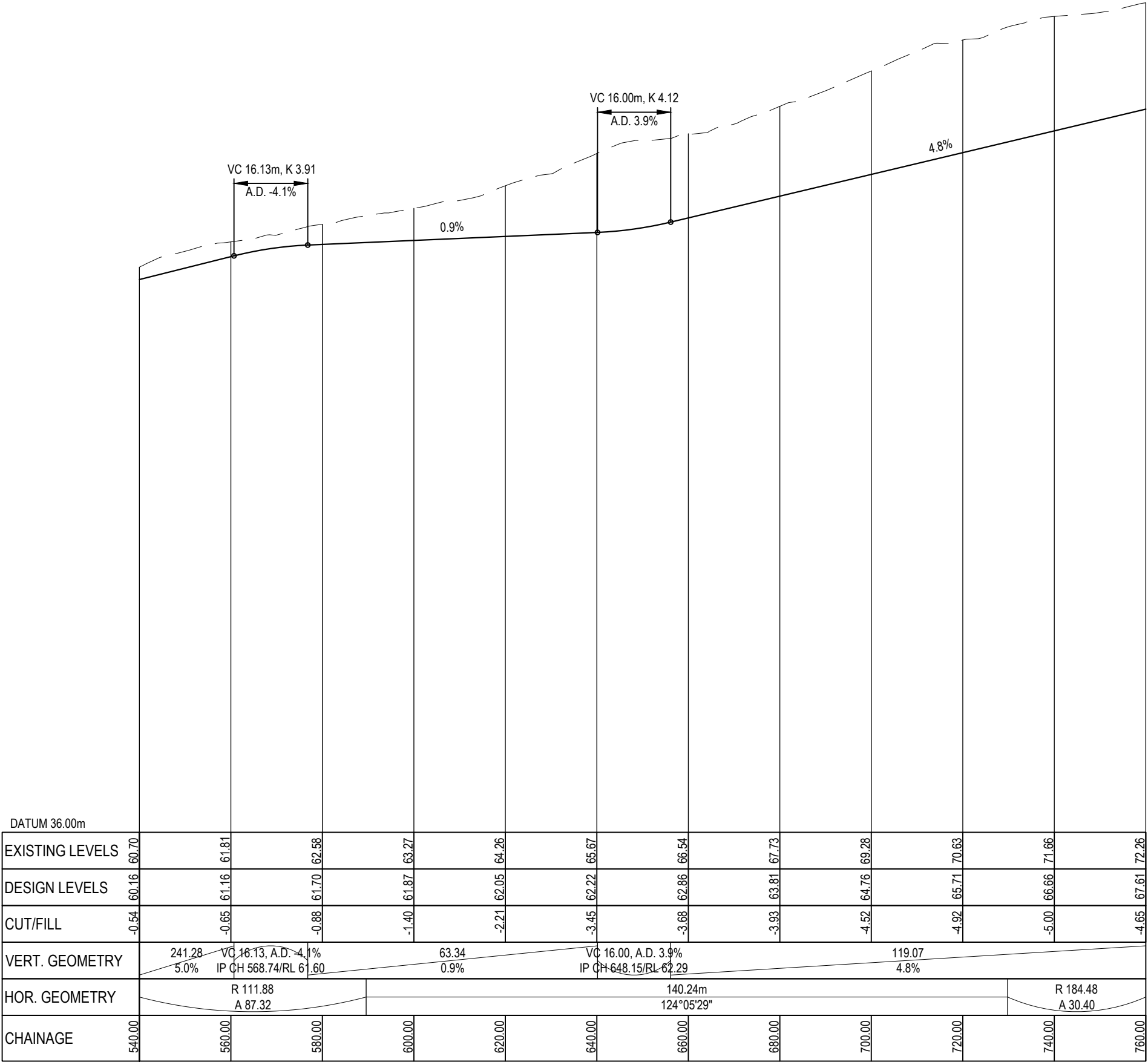
Project
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING LS.DWG		
Drawing no.	C320-1	Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 147016-RV-C320 ROADING.LSDWG



PR ACCESS WAY 1 LONGSECTION (CH 540 - CH760)
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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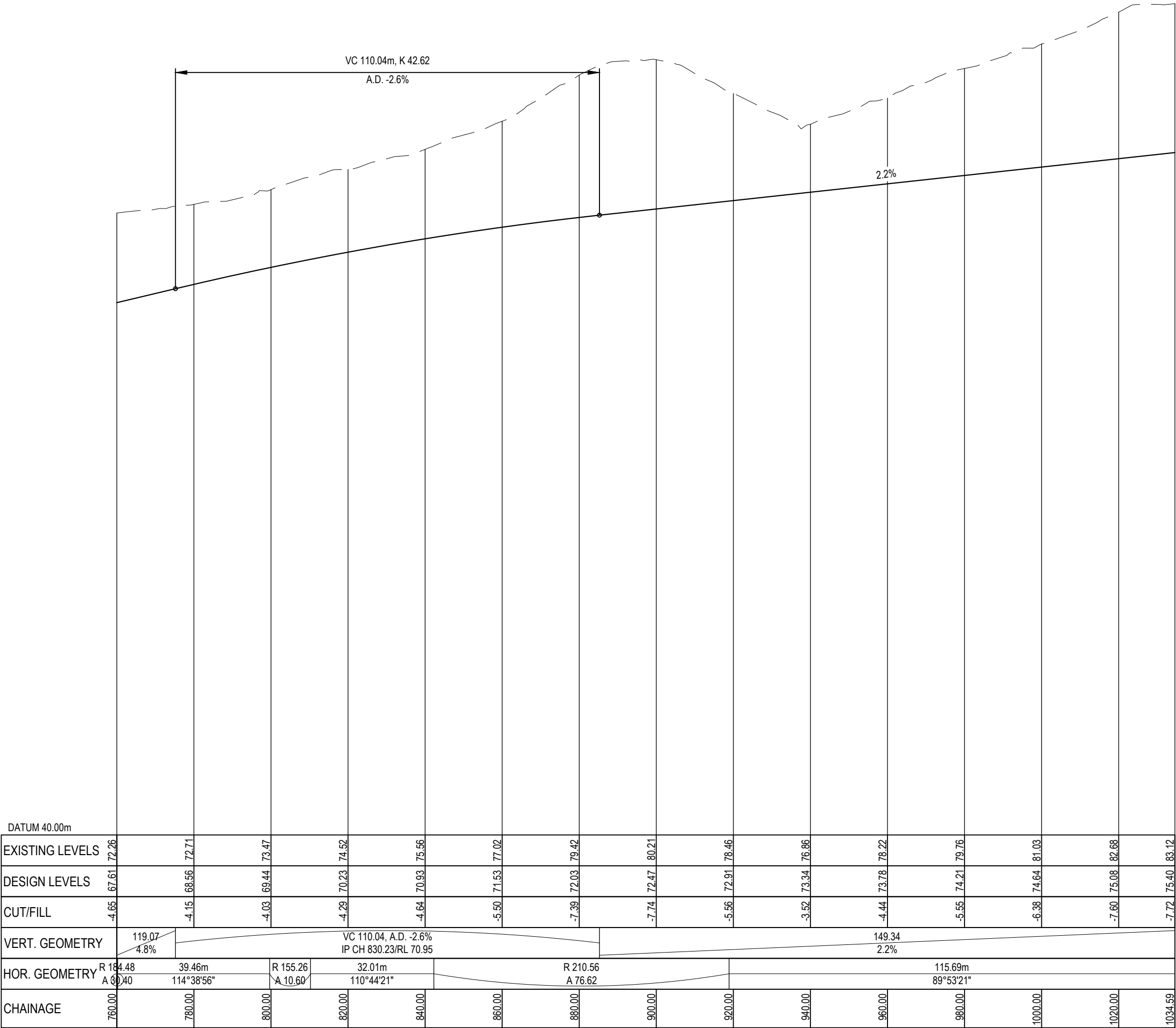
Project
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING L.S.DWG		
Drawing no.	C320-2	Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\17016 - RIVERHEAD RETIREMENT VILLAGE\DWG 147016-RV-C320 ROADING.LSDWG



RESOURCE CONSENT

PR ACCESS WAY 1 LONGSECTION (CH 760 - CH 1034.59)
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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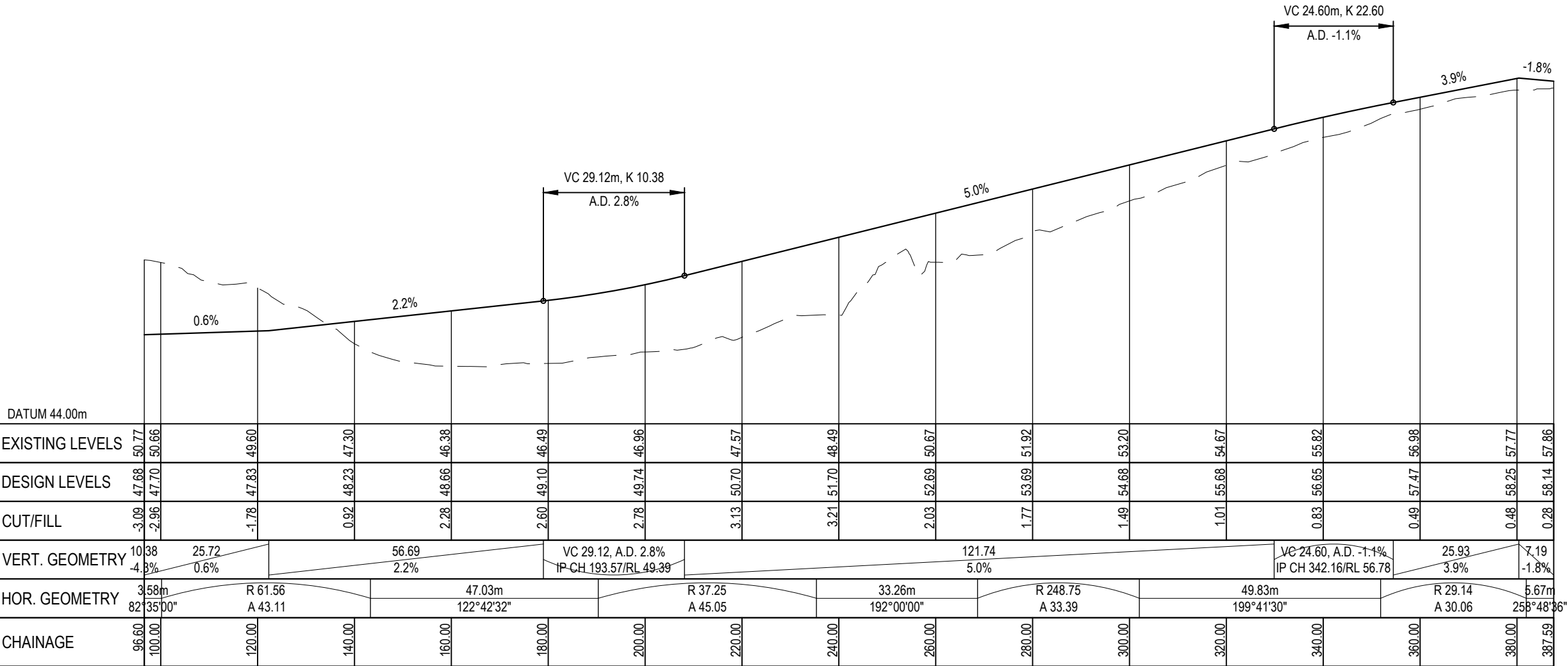
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**DEVELOPMENT OF
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DEVELOPMENTS LIMITED
PARTNERSHIP**

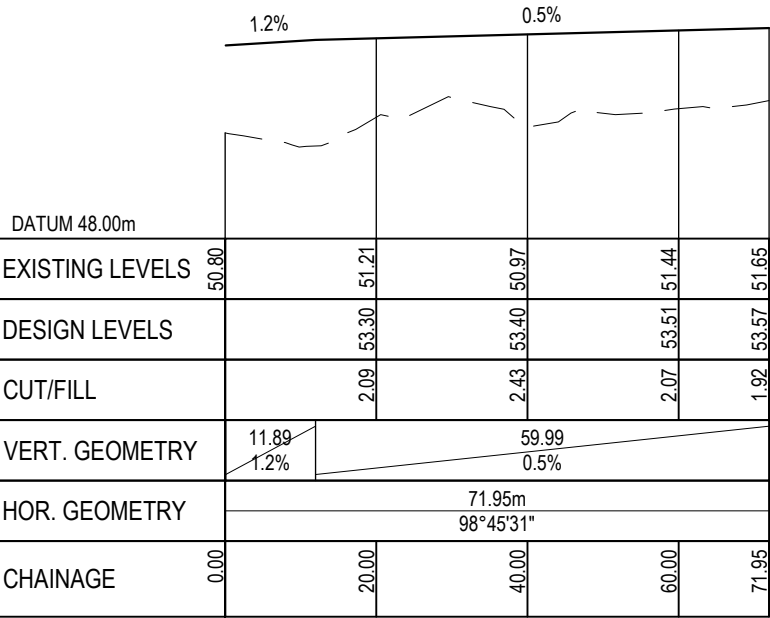
Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING L.S.DWG
Drawing no.	C320-3
Rev	A

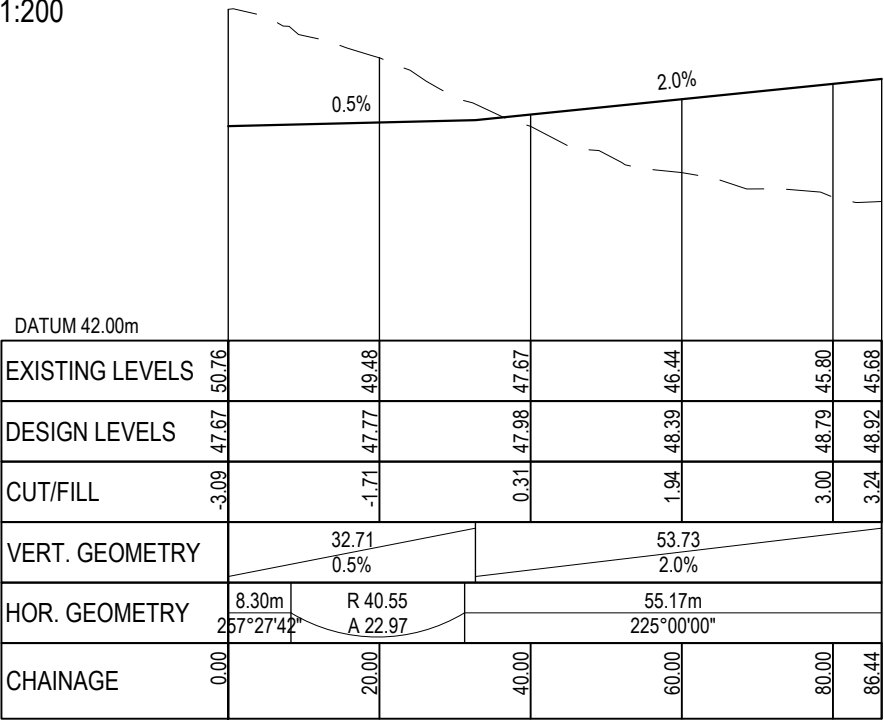
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PR ACCESS WAY 2 LONGSECTION
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 2A LONGSECTION
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 3 LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	



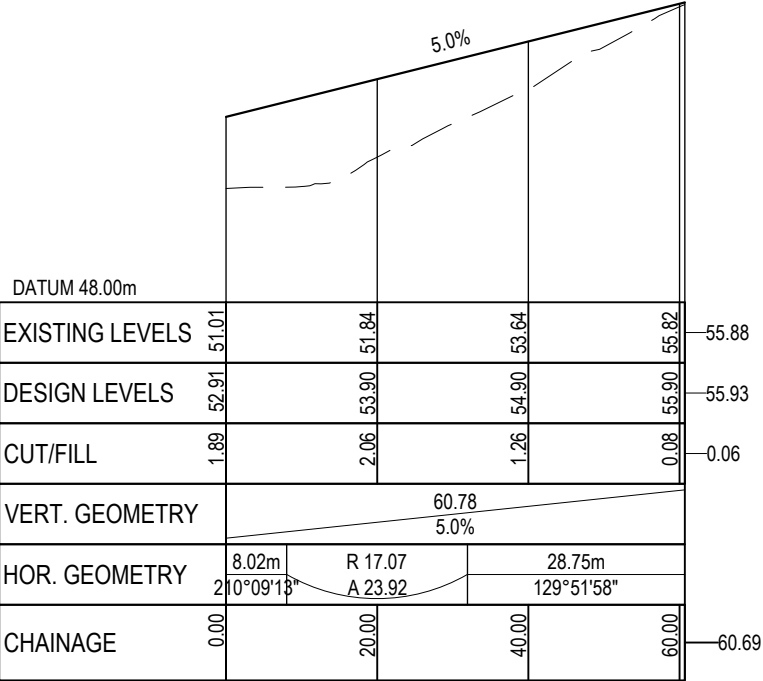
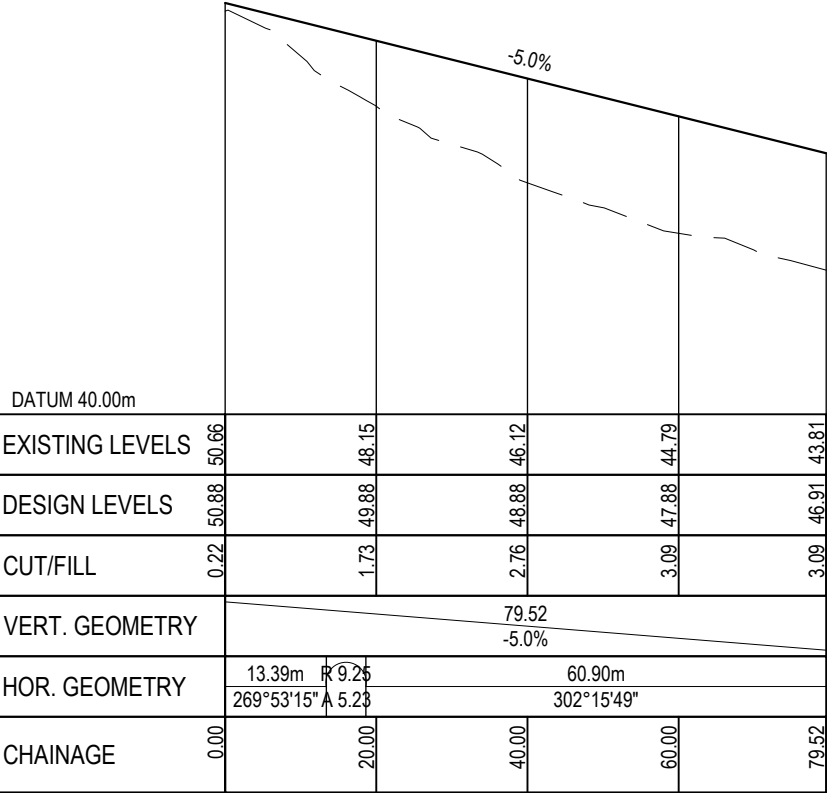
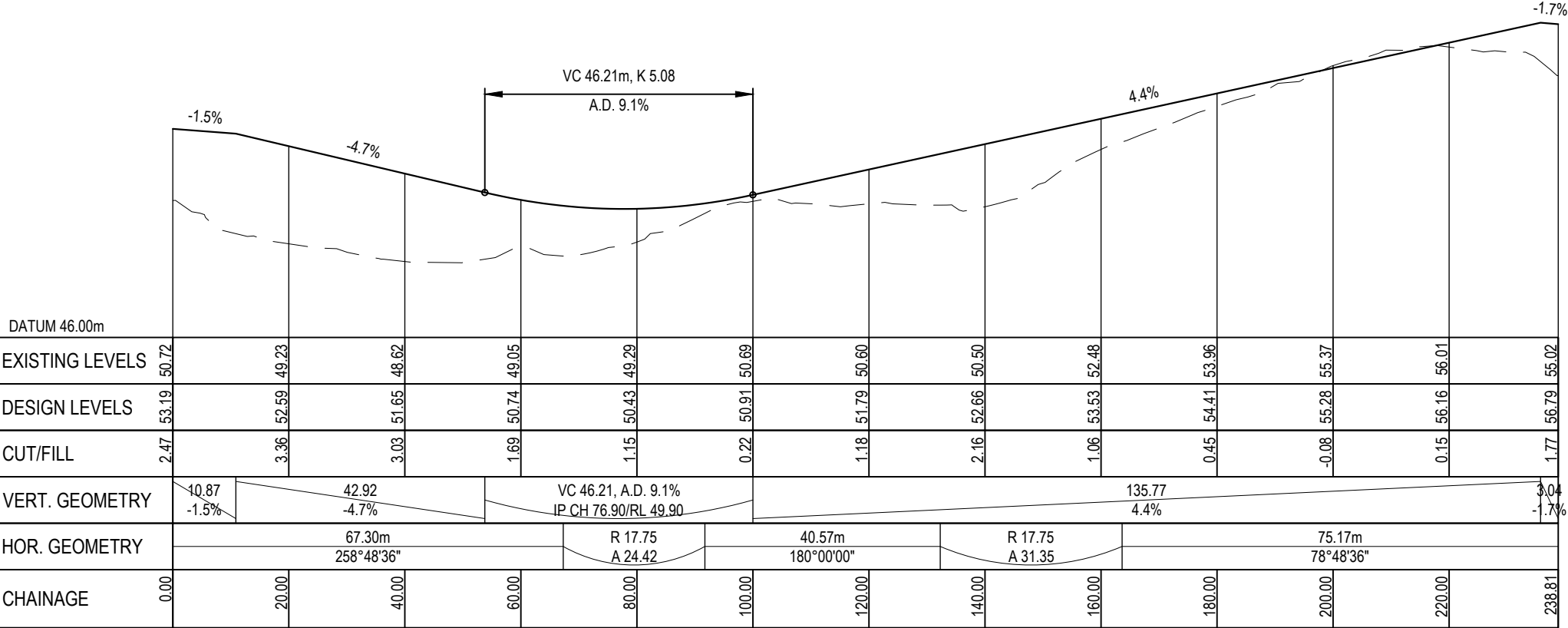
Project
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING L.S.DWG
Drawing no.	C321
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILEPATH: F:\Maven\PROJECTS\147016-RV-C320-ROADING\LS.DWG RIVERHEAD RETIREMENT VILLAGE.DWG 4/20/25-RV-C320-ROADING.LS.DWG



LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	



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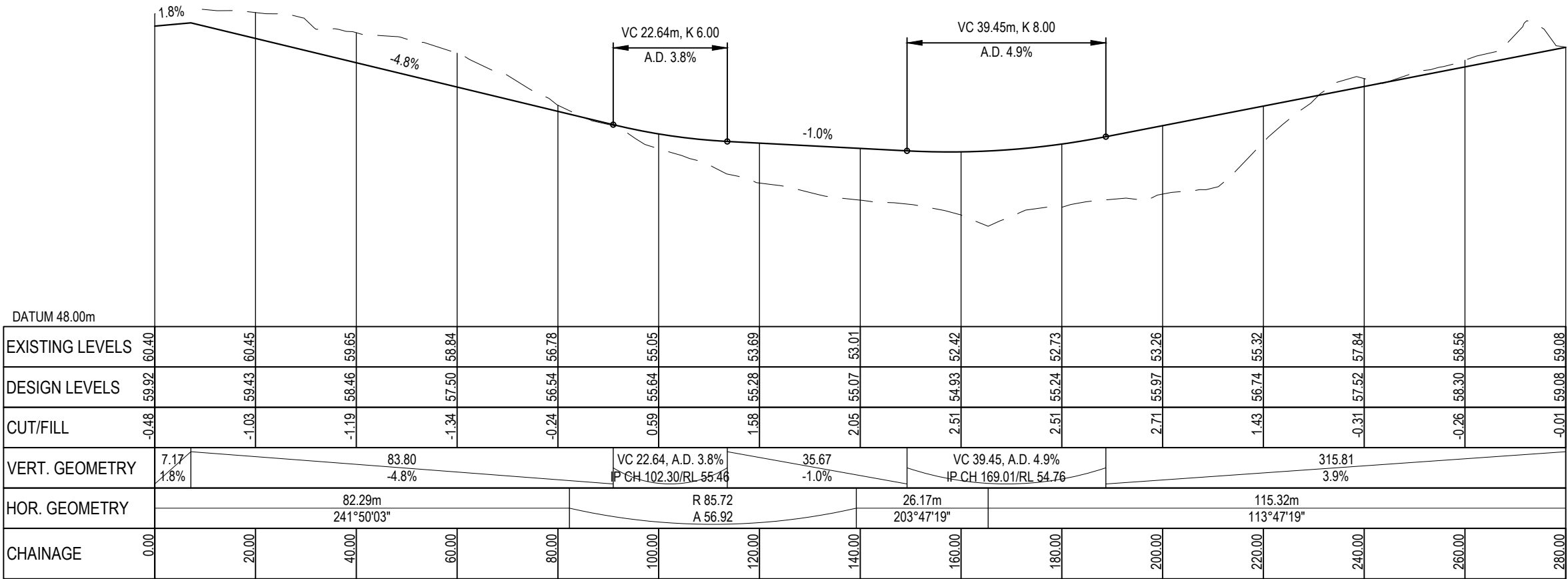
Project
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING L.S.DWG		
Drawing no.	C322	Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320 ROADING.LSDWG



PR ACCESS WAY 5 LONGSECTION (CH 0 - CH 280)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	



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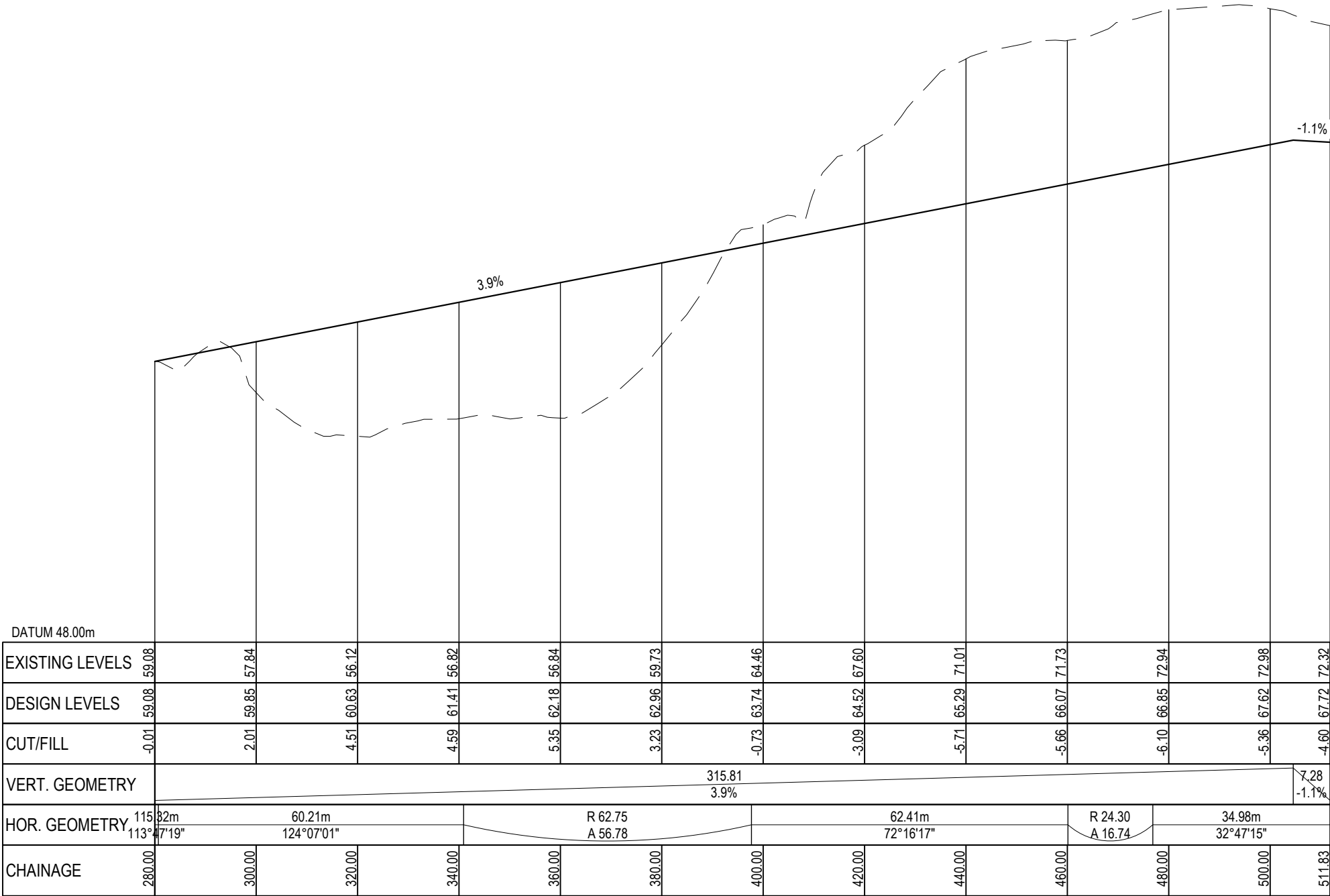
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING L.S.DWG		
Drawing no.	C323	Rev	A

DATE: 4/20/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 147016-RV-C320 ROADING.LSDWG

RESOURCE CONSENT



PR ACCESS WAY 5 LONGSECTION (CH 280 - CH511.83)
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

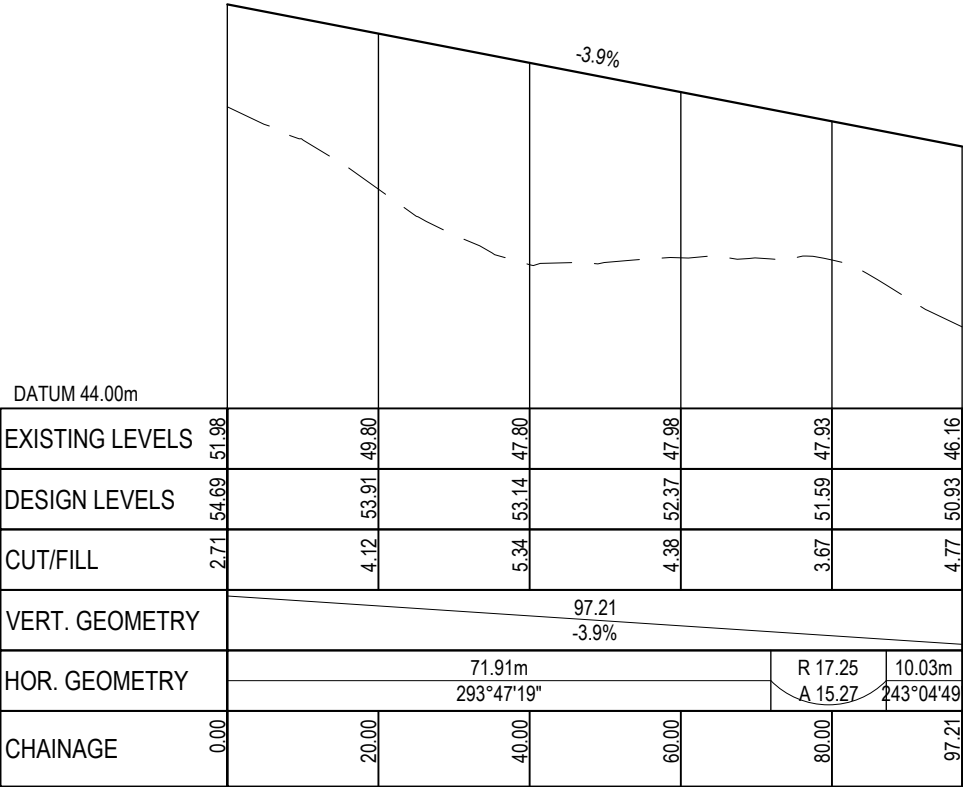


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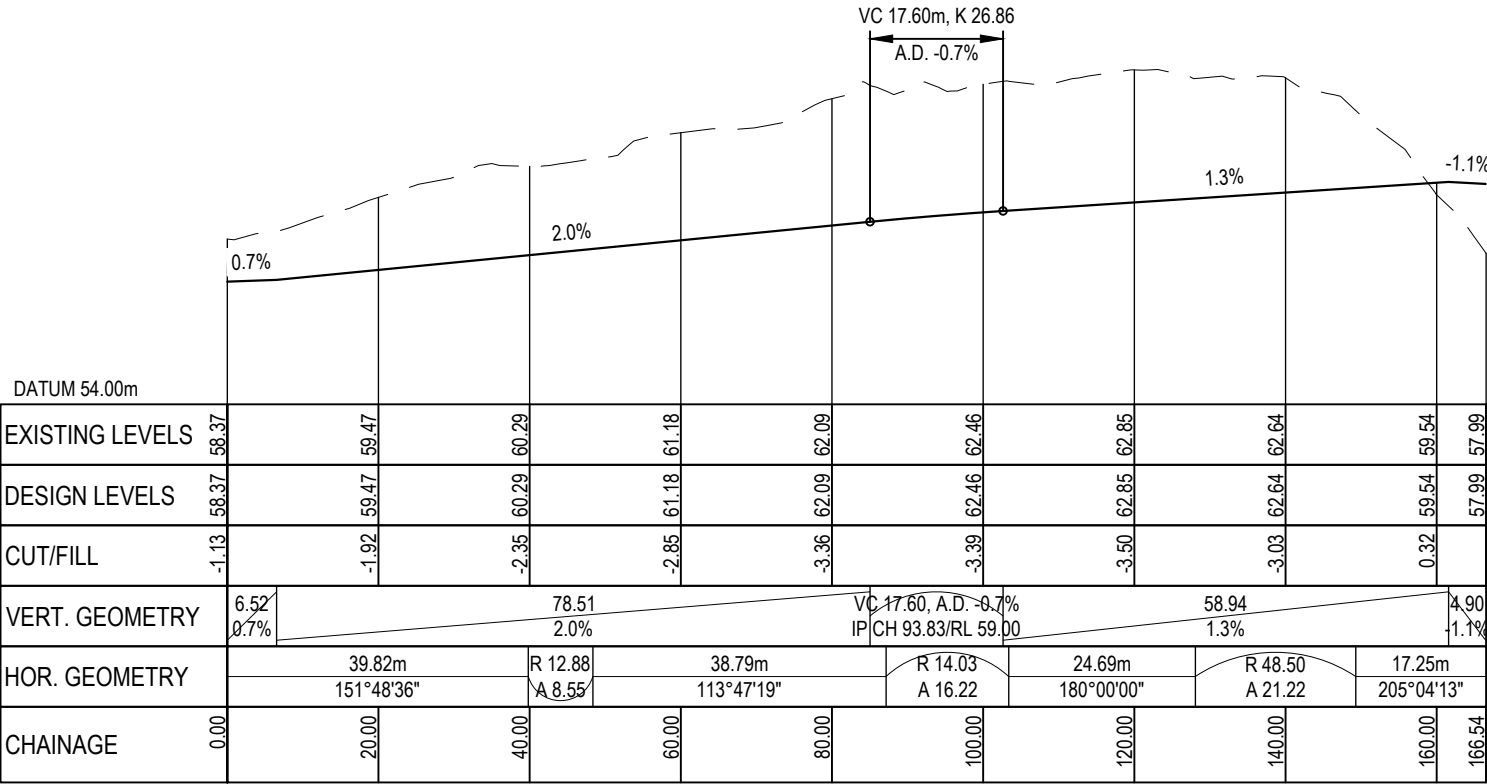
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING LS.DWG		
Drawing no.	C323-1	Rev	A



PR ACCESS WAY 5A LONGSECTION
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 5B LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
- - - - - EX GROUND SURFACE
————— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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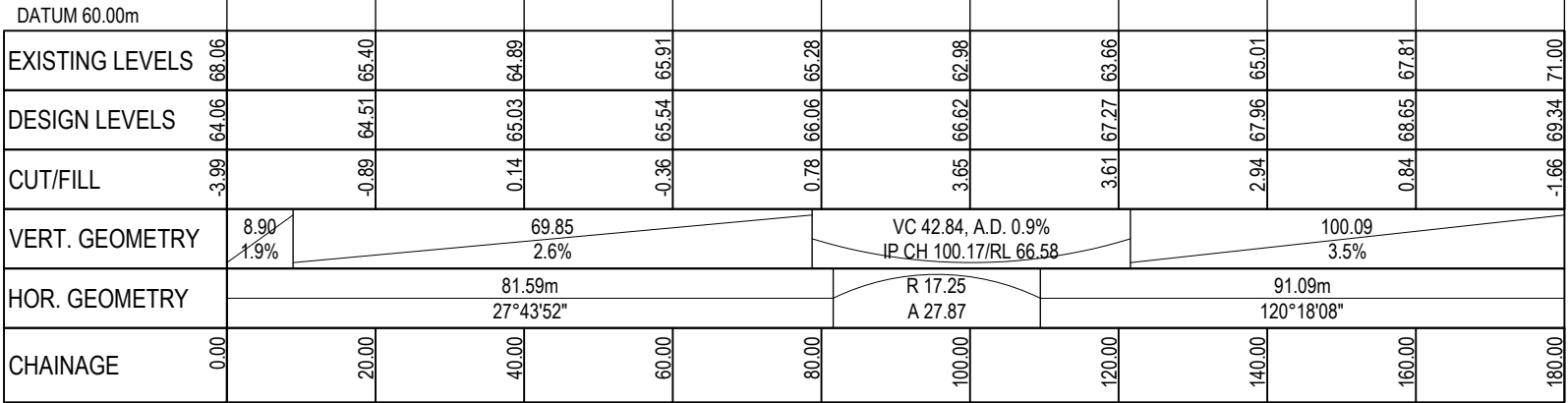
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**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

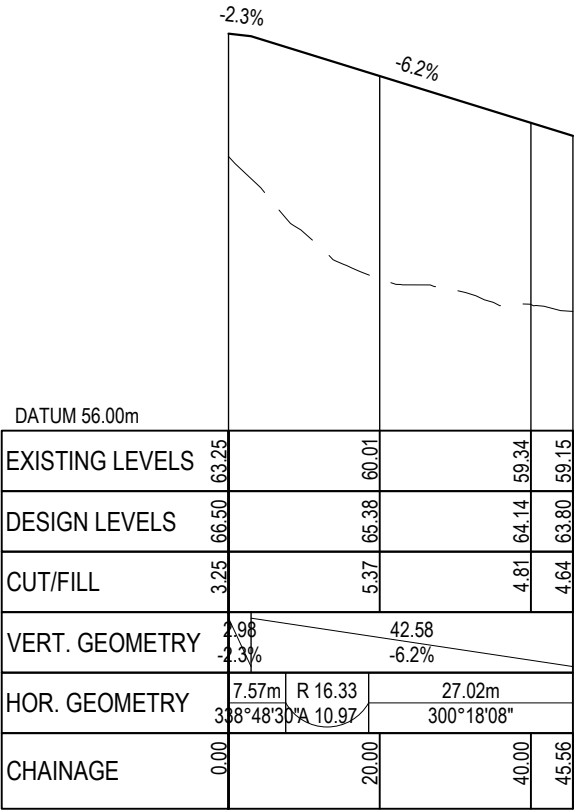
Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C323-2
Rev	A

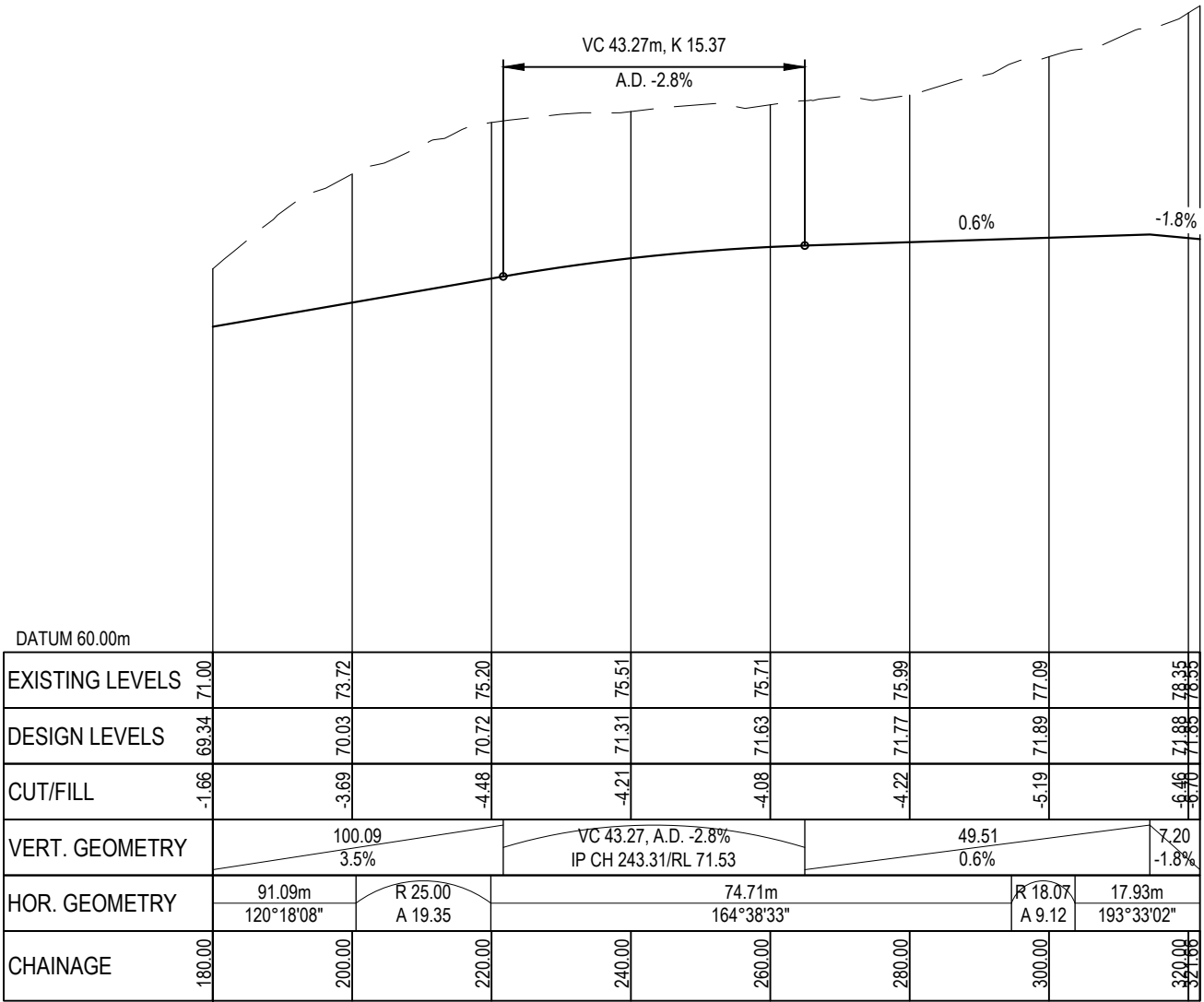
DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\17016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C320 ROADING.LSDWG



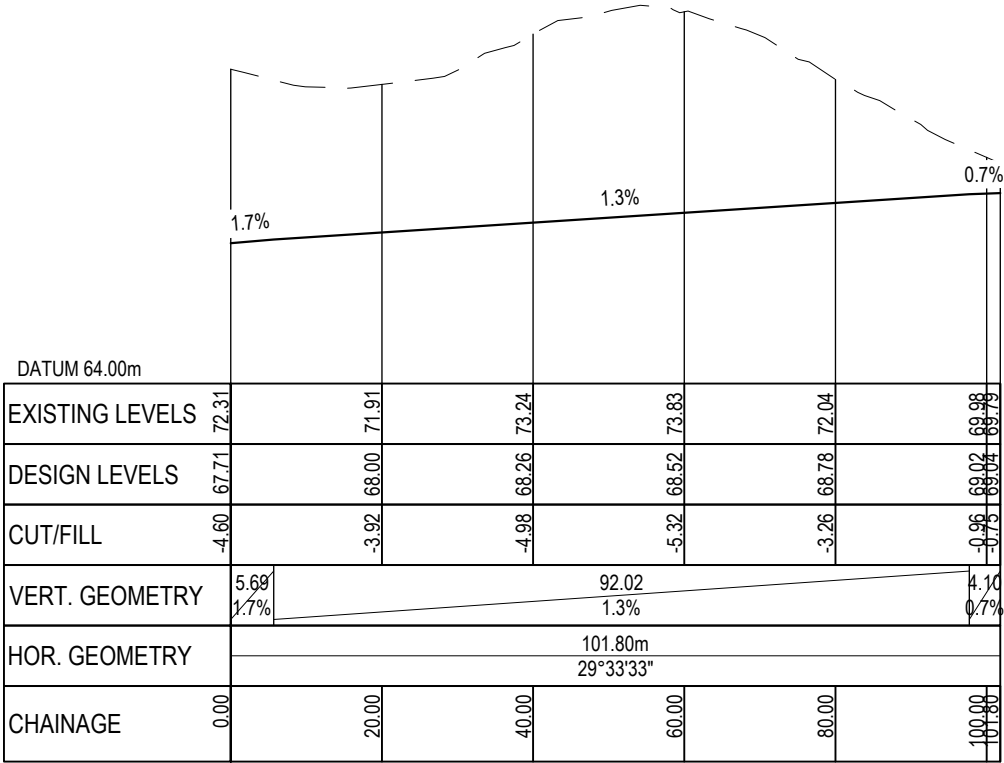
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SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 6A LONGSECTION
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 6 LONGSECTION (CH 180 - CH 321.66)
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 6B LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

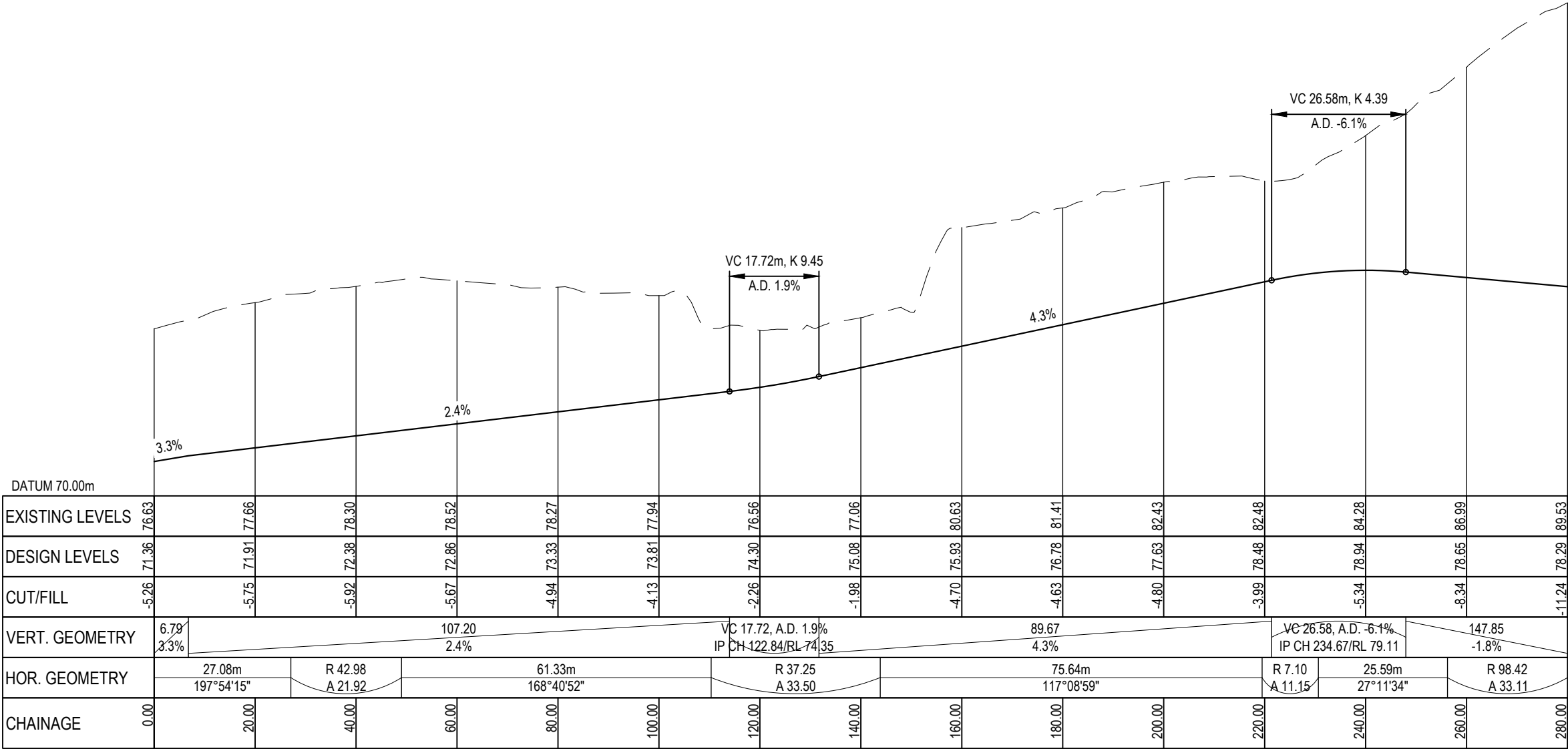


Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C324
Rev	A

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 147016-RV-C320 ROADING.LSDWG



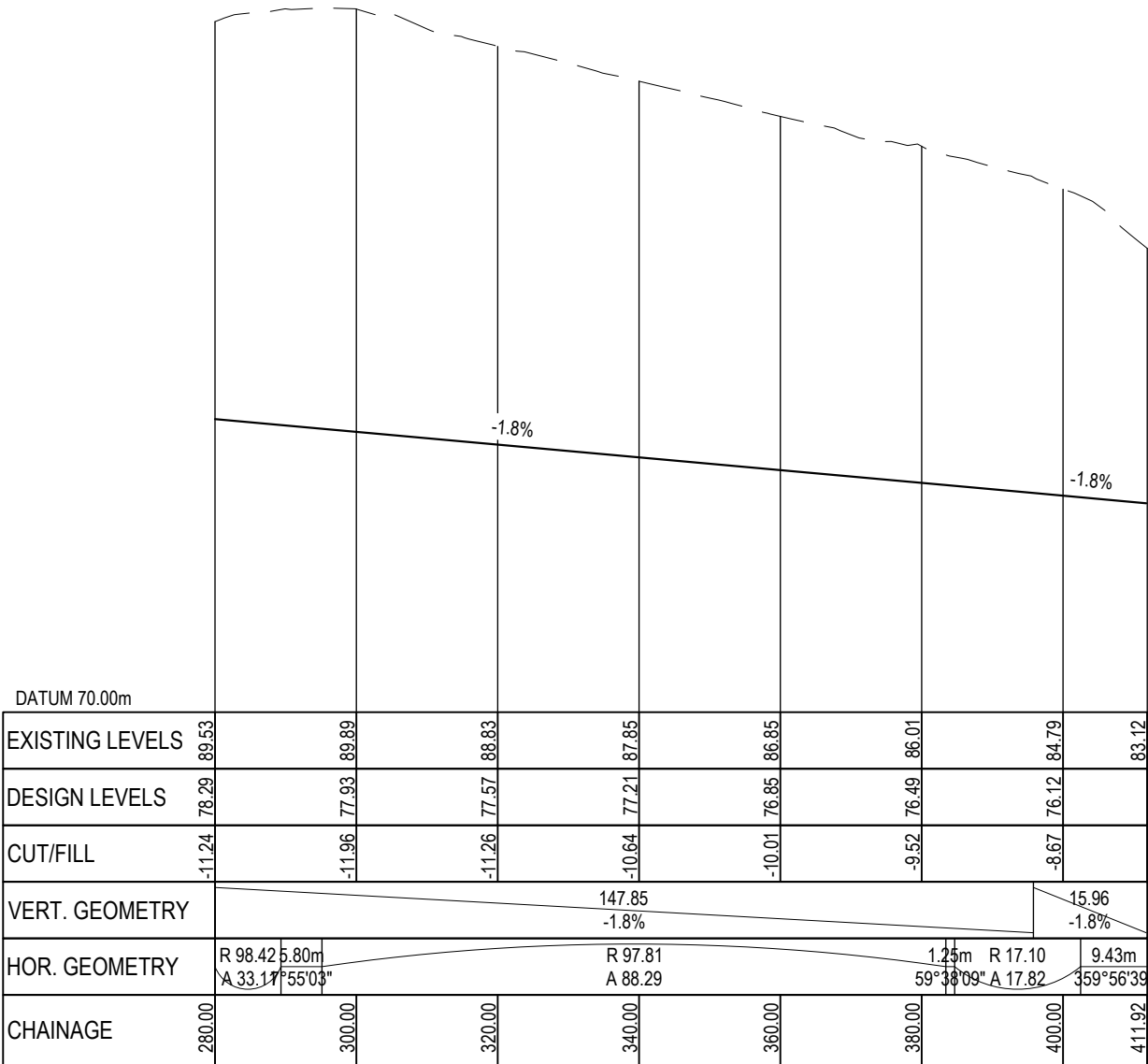
PR ACCESS WAY 7 LONGSECTION (CH 0 - CH 280)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

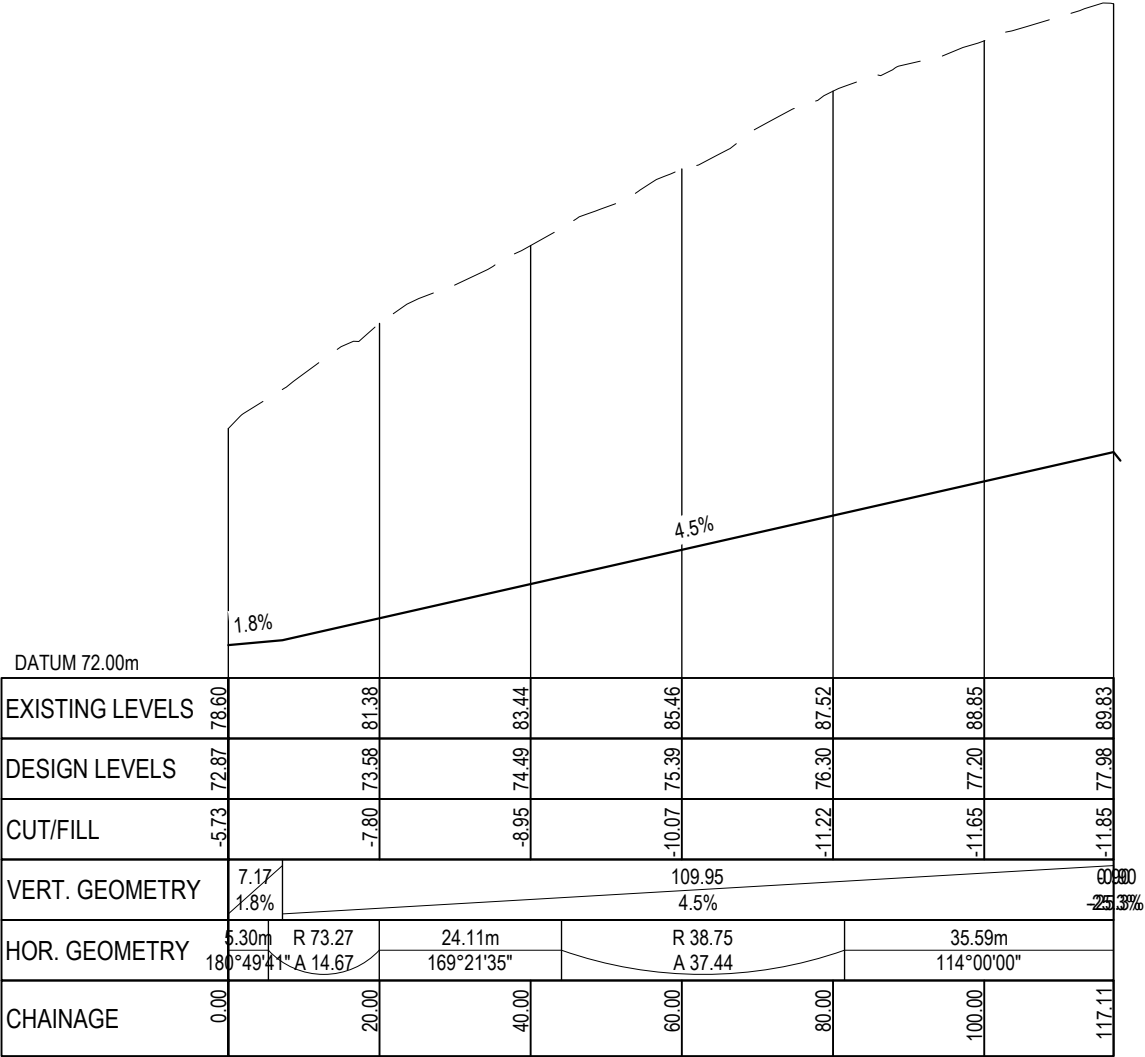
A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
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Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	
<div><div>M</div><div>Maven Associates</div><div>09 571 0050</div><div>info@maven.co.nz</div><div>www.maven.co.nz</div><div>5 Owens Road, Epsom</div><div>Auckland 1023</div></div>			
Project DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP			
Title RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS			
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING LS.DWG		
Drawing no.	C325	Rev	A

DATE: 4/2025 FILEPATH: F:\Maven\PROJECTS\7016-RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C320 ROADING.LSDWG

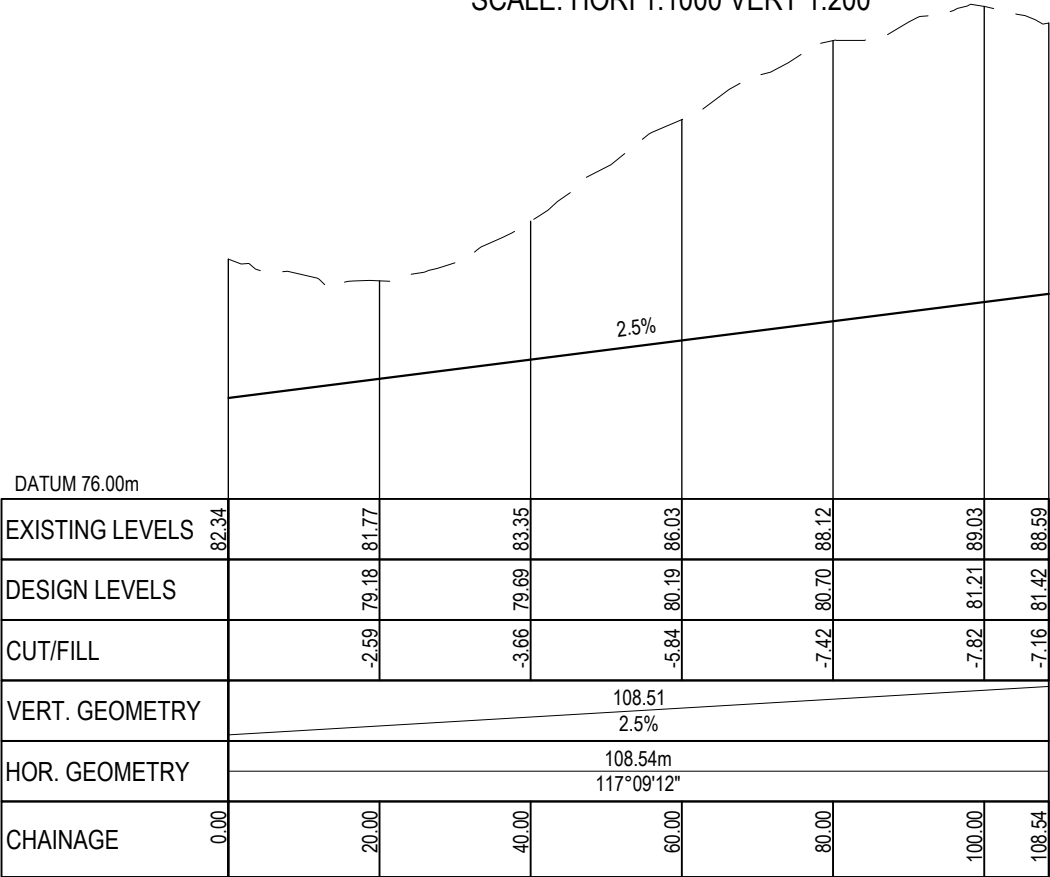


PR ACCESS WAY 7 LONGSECTION (CH 280 - 411.92)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT



PR ACCESS WAY 7A LONGSECTION
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 7B LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
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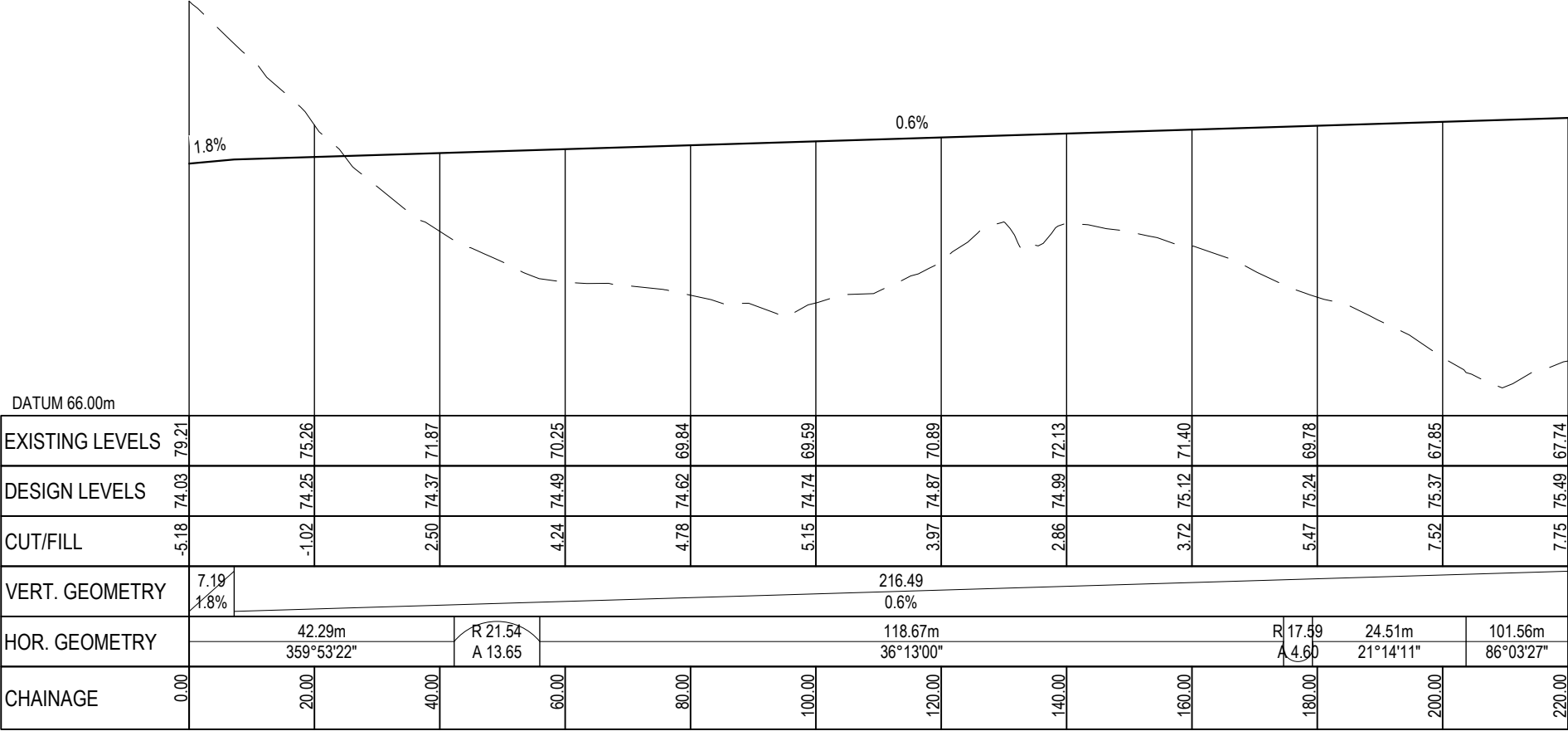
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DEVELOPMENTS LIMITED
PARTNERSHIP**

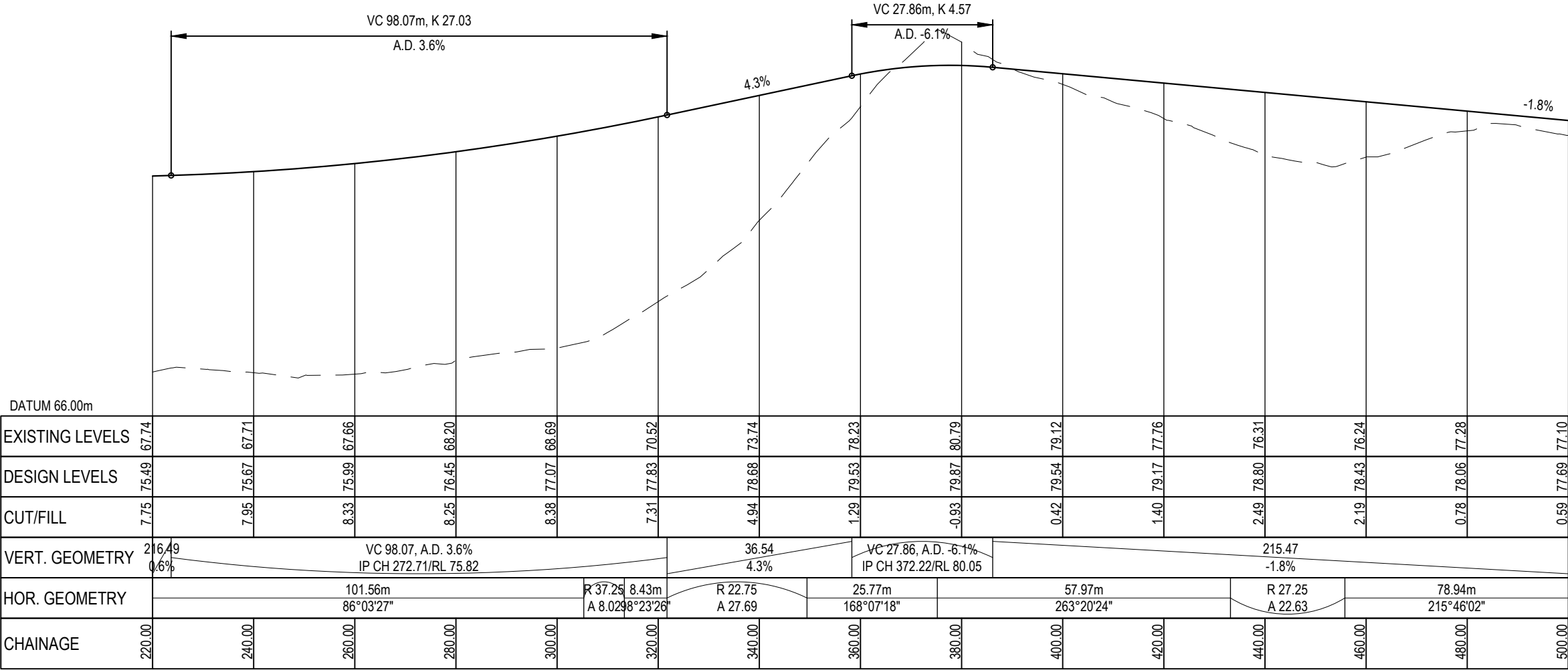
Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C325-1
Rev	A

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\17016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C320 ROADING.LSDWG



PR ACCESS WAY 8 LONGSECTION CH 0 - CH 220)
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 8 LONGSECTION (CH 220 - CH 500)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
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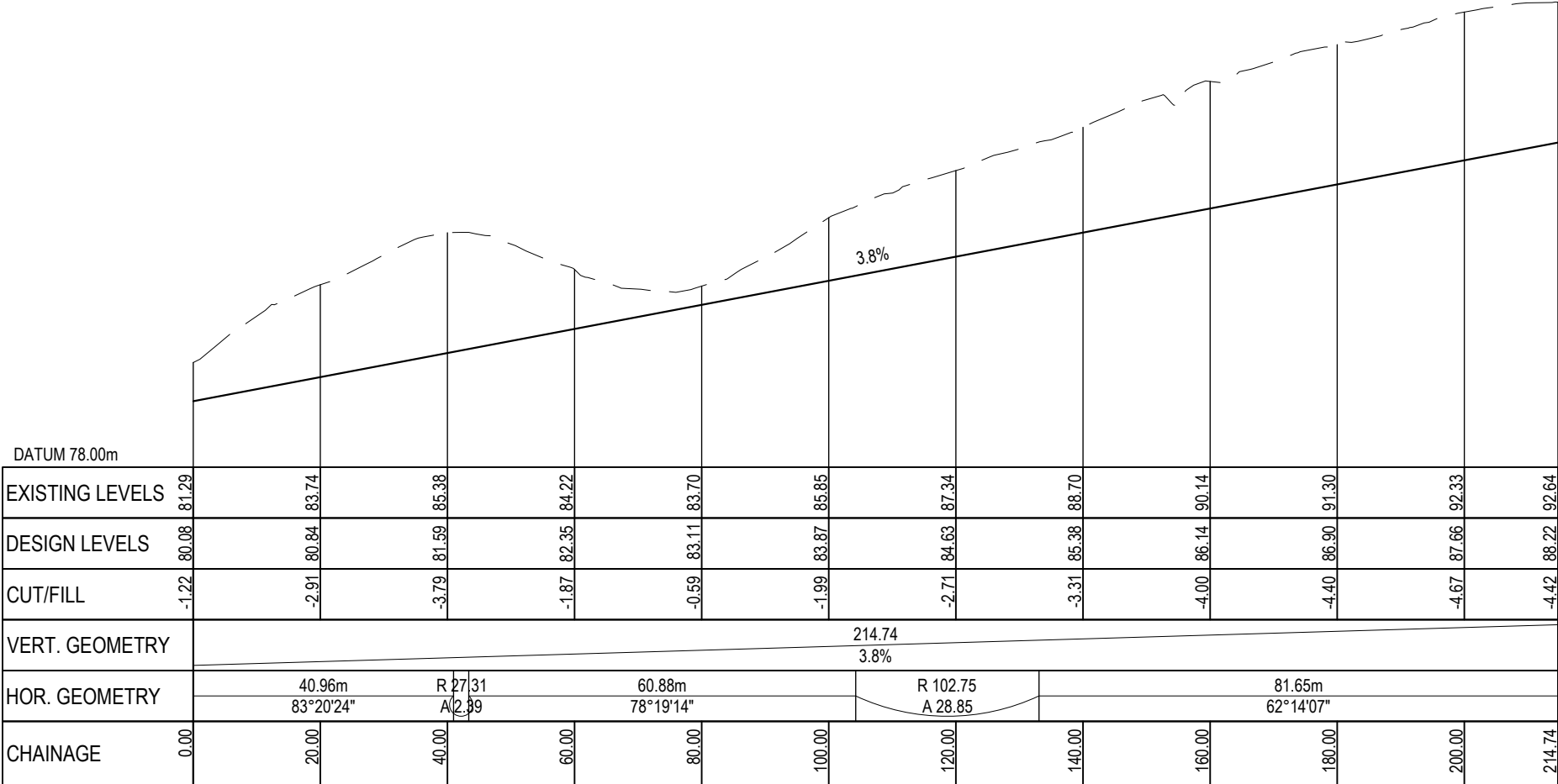


Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

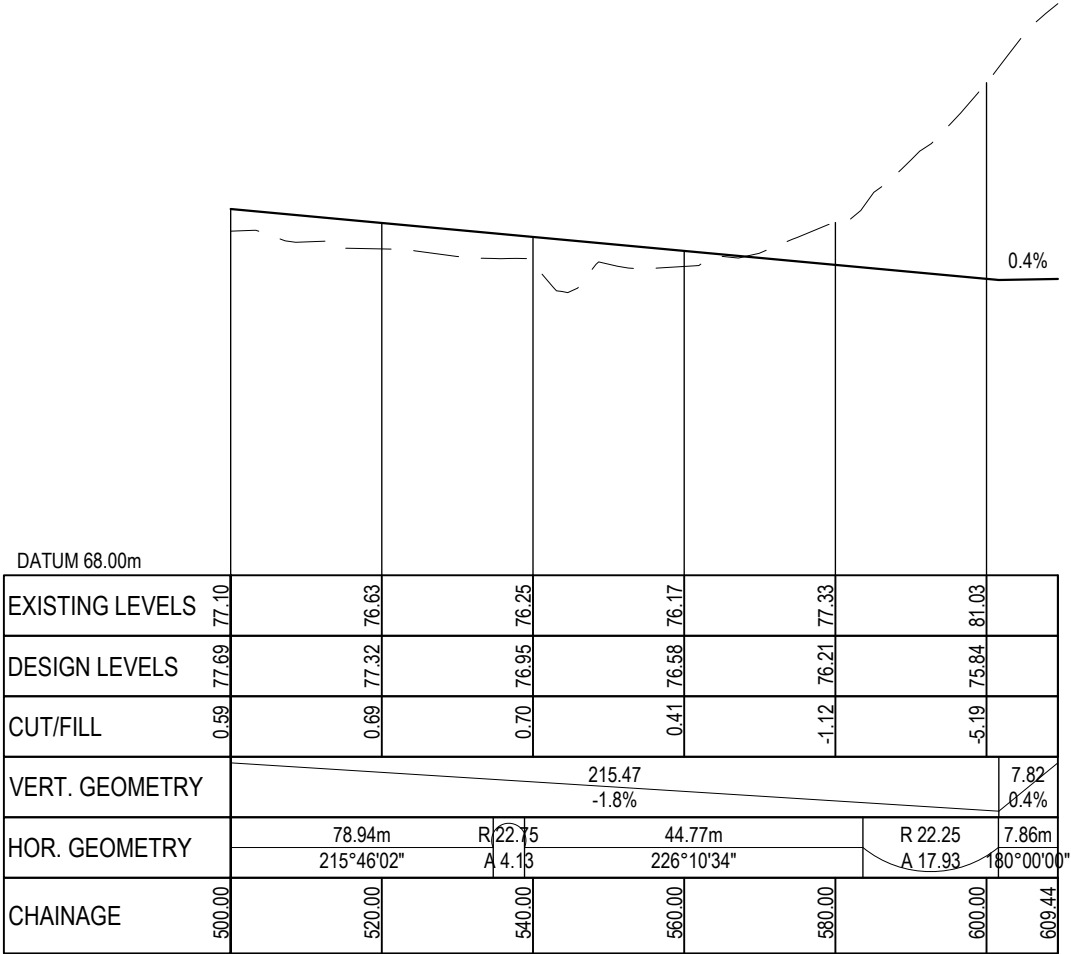
Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C326
Rev	A

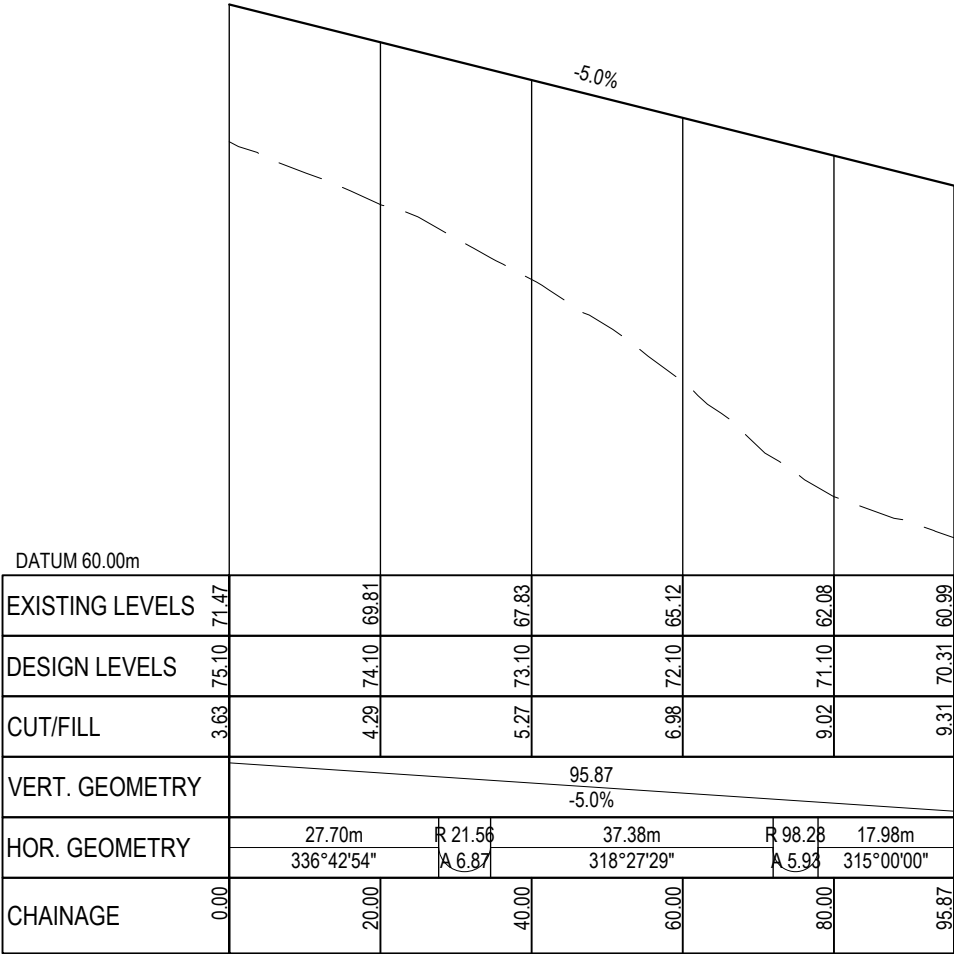
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PR ACCESS WAY 8B LONGSECTION
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 8 LONGSECTION (CH 500 - CH 609.44)
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 8A LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
—— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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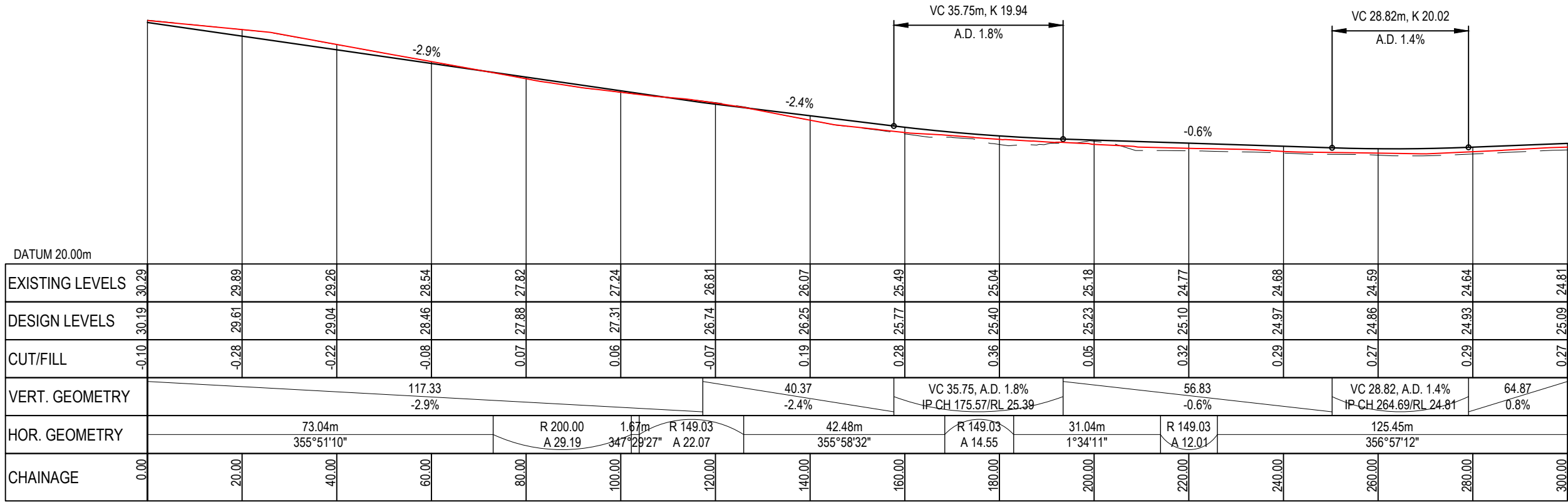
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Project
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RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY
LONGSECTIONS**

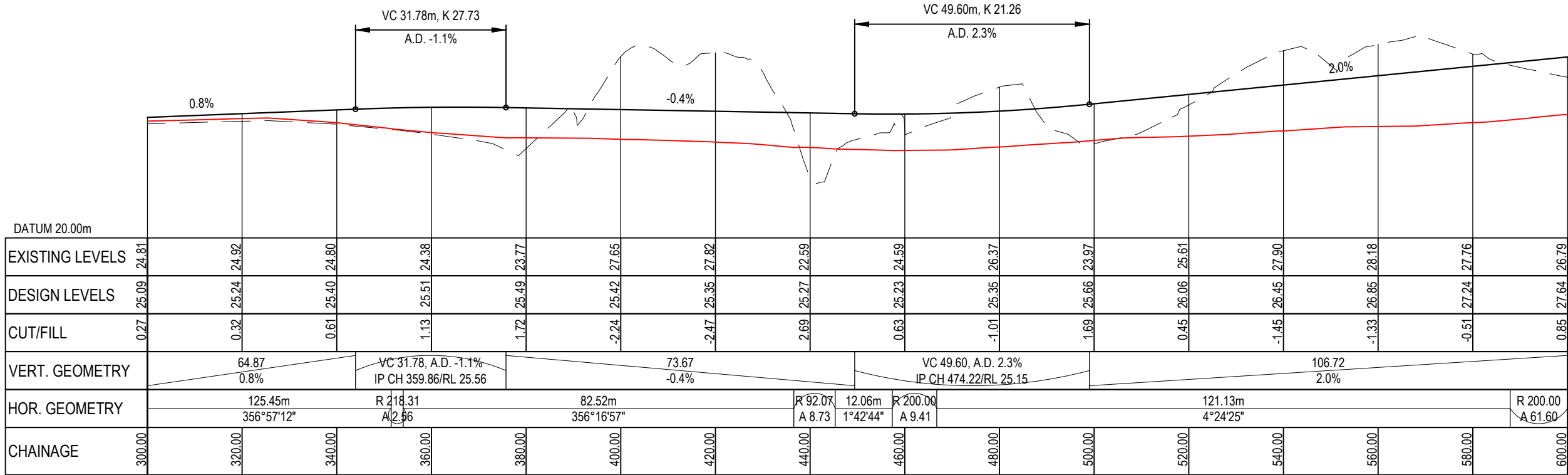
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING L.S.DWG		
Drawing no.	C326-1	Rev	A

DATE: 4/2025 FILEPATH: F:\Maven\PROJECTS\RD16 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320-ROADING.LSDWG



PR FORESTRY ROAD EXTENSION LONGSECTION (CH 0 - CH 300)
SCALE: HORI 1:1000 VERT 1:200

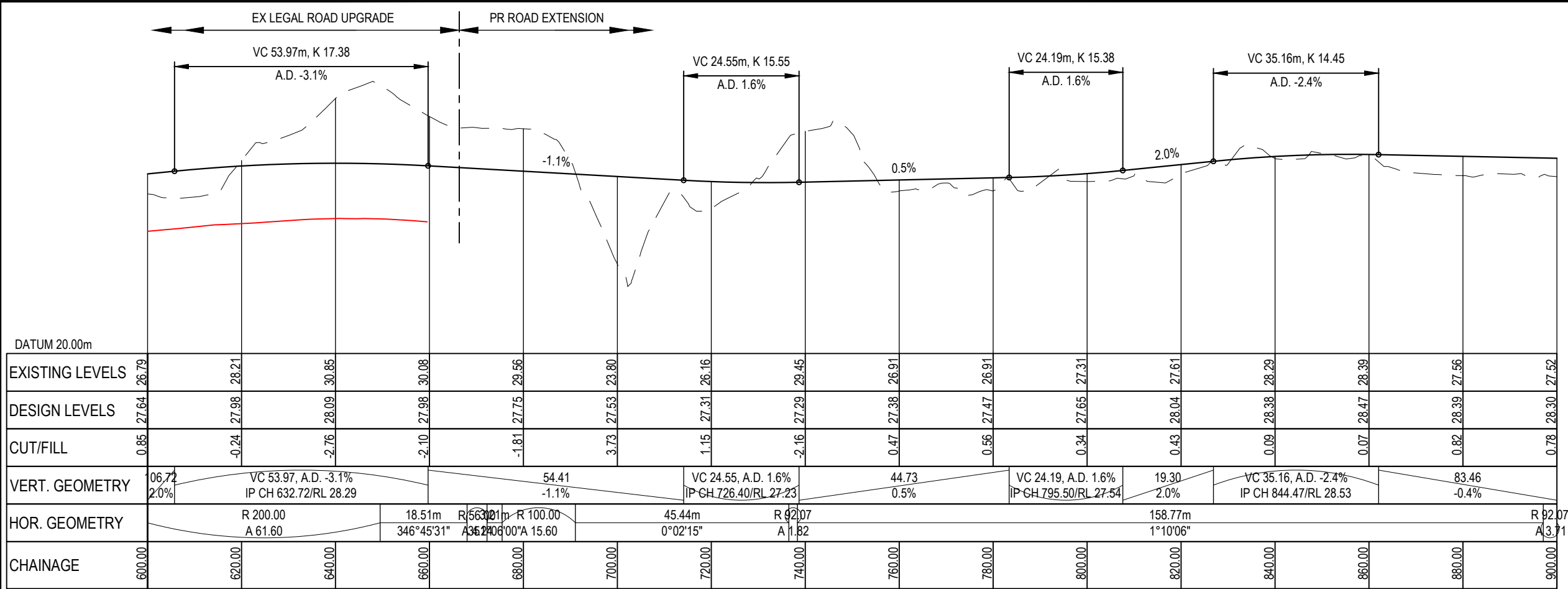
LEGEND:
--- EX GROUND SURFACE
--- EX FORESTRY ROAD CENTRELINE LEVEL
--- PR DESIGN SURFACE



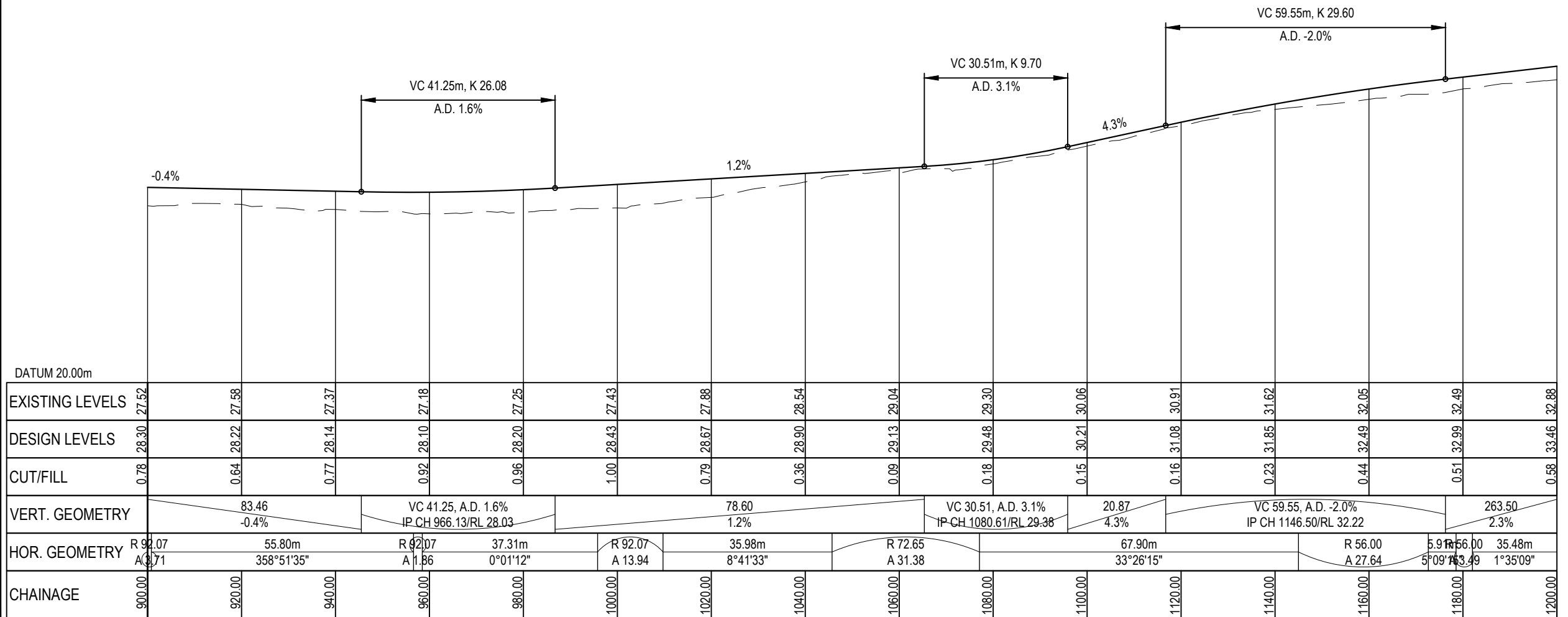
PR FORESTRY ROAD EXTENSION LONGSECTION (CH 300 - CH 600)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	IZ		05/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025
<div><div><div>M</div><div>MAVEN</div></div><div><div>Maven Associates</div><div>09 571 0050</div><div>info@maven.co.nz</div><div>www.maven.co.nz</div><div>5 Owens Road, Epsom</div><div>Auckland 1023</div></div></div>			
Project DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP			
Title RETIREMENT VILLAGE FORESTRY RD EXTENSION LONGSECTIONS			
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320-ROADING L.S.DWG		
Drawing no.	C327-1	Rev	A



PR FORESTRY ROAD EXTENSION LONGSECTION (CH 600 - CH 900)
SCALE: HORI 1:1000 VERT 1:200



PR FORESTRY ROAD EXTENSION LONGSECTION (CH 900 - CH 1200)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:

--- EX GROUND SURFACE

--- EX FORESTRY ROAD CENTRELINE LEVEL

--- PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	



Project

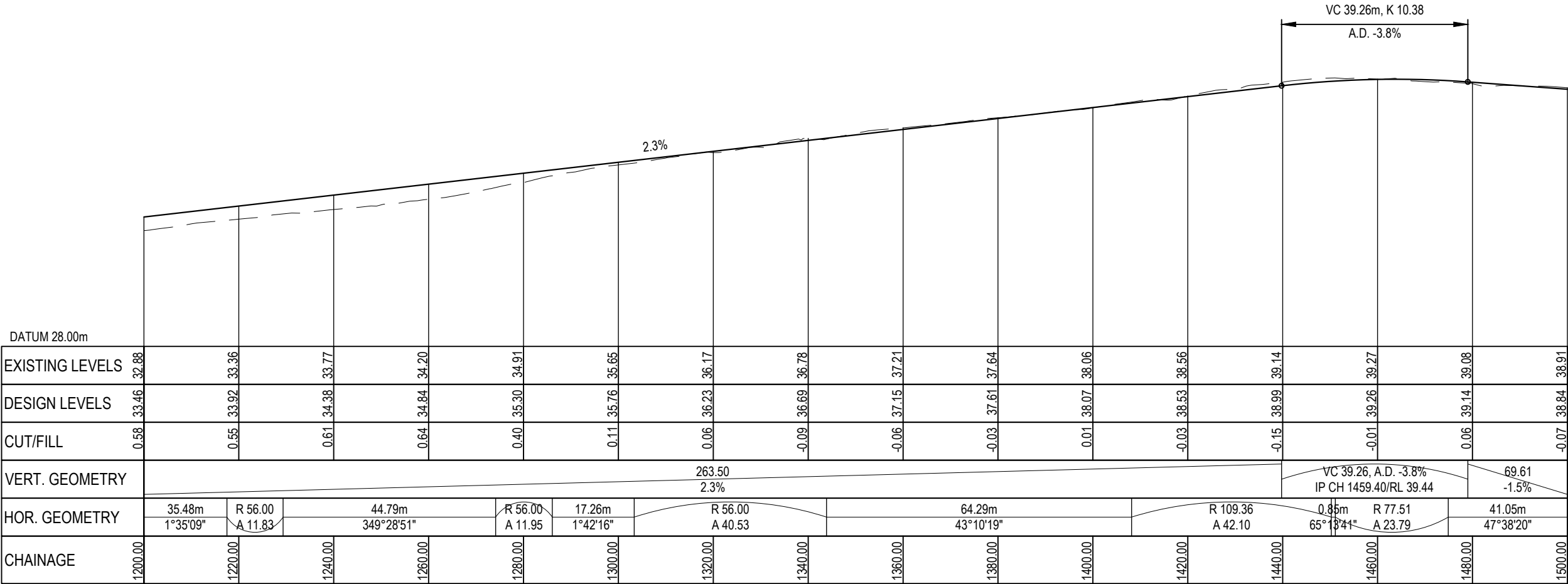
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title

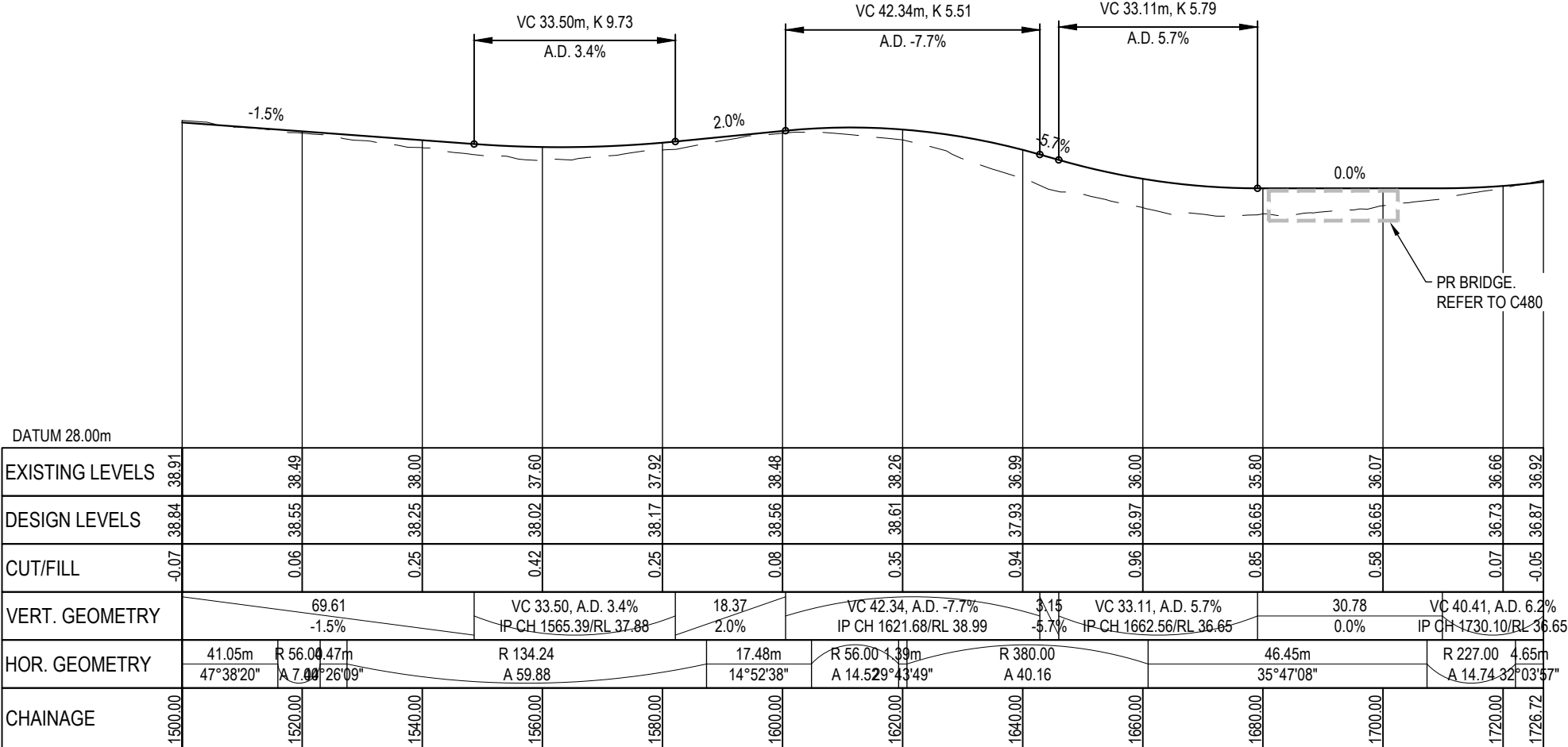
**RETIREMENT VILLAGE
FORESTRY RD EXTENSION
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADNG LS.DWG
Drawing no.	C327-2
Rev	A

DATE: 4/20/25 FILEPATH: F:\Maven\PROJECTS\701616 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C320 ROAD\LS.DWG



PR FORESTRY ROAD EXTENSION LONGSECTION (CH 1200 - CH 1500)
SCALE: HORI 1:1000 VERT 1:200



PR FORESTRY ROAD EXTENSION LONGSECTION (CH 1500 - CH 1726.72m)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
(EX CENTRLINE LEVEL)
—— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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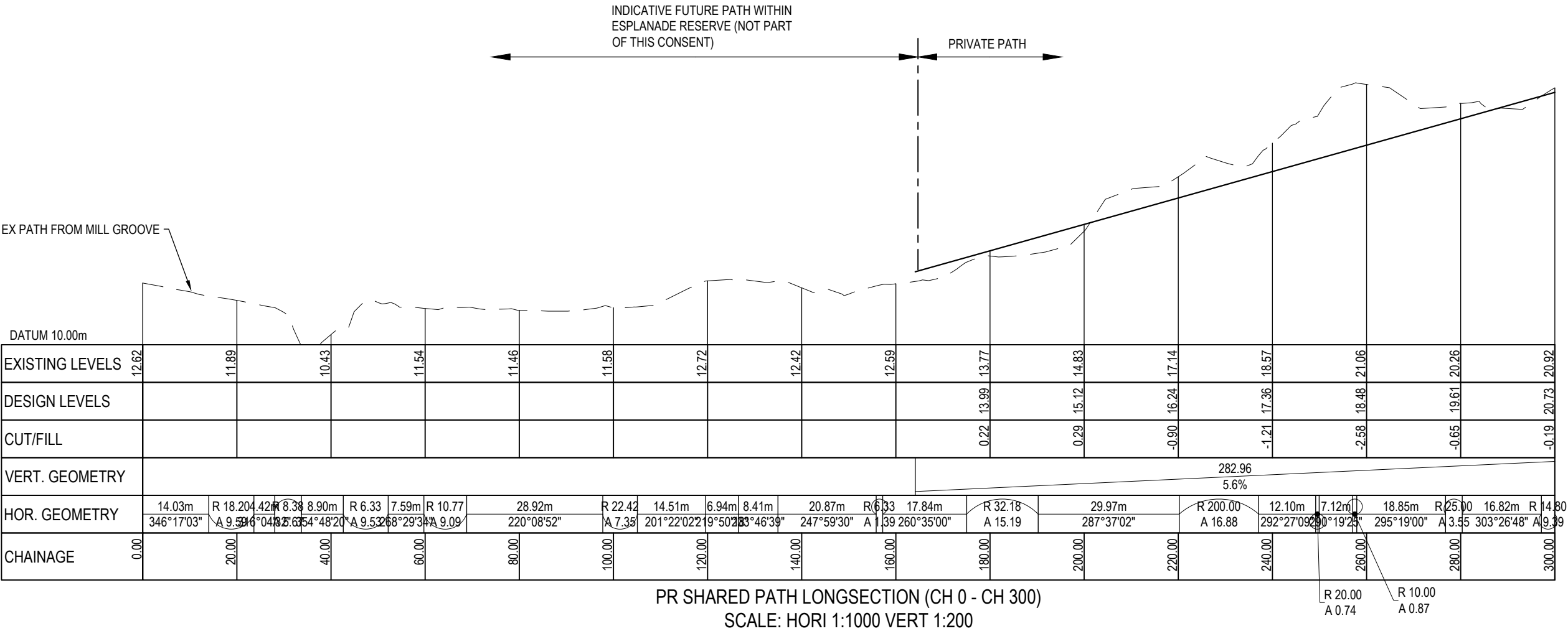
Auckland 1023

Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
FORESTRY RD EXTENSION
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROAD\LS.DWG		
Drawing no.	C327-3	Rev	A

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320 ROADING.LSDWG



RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
—— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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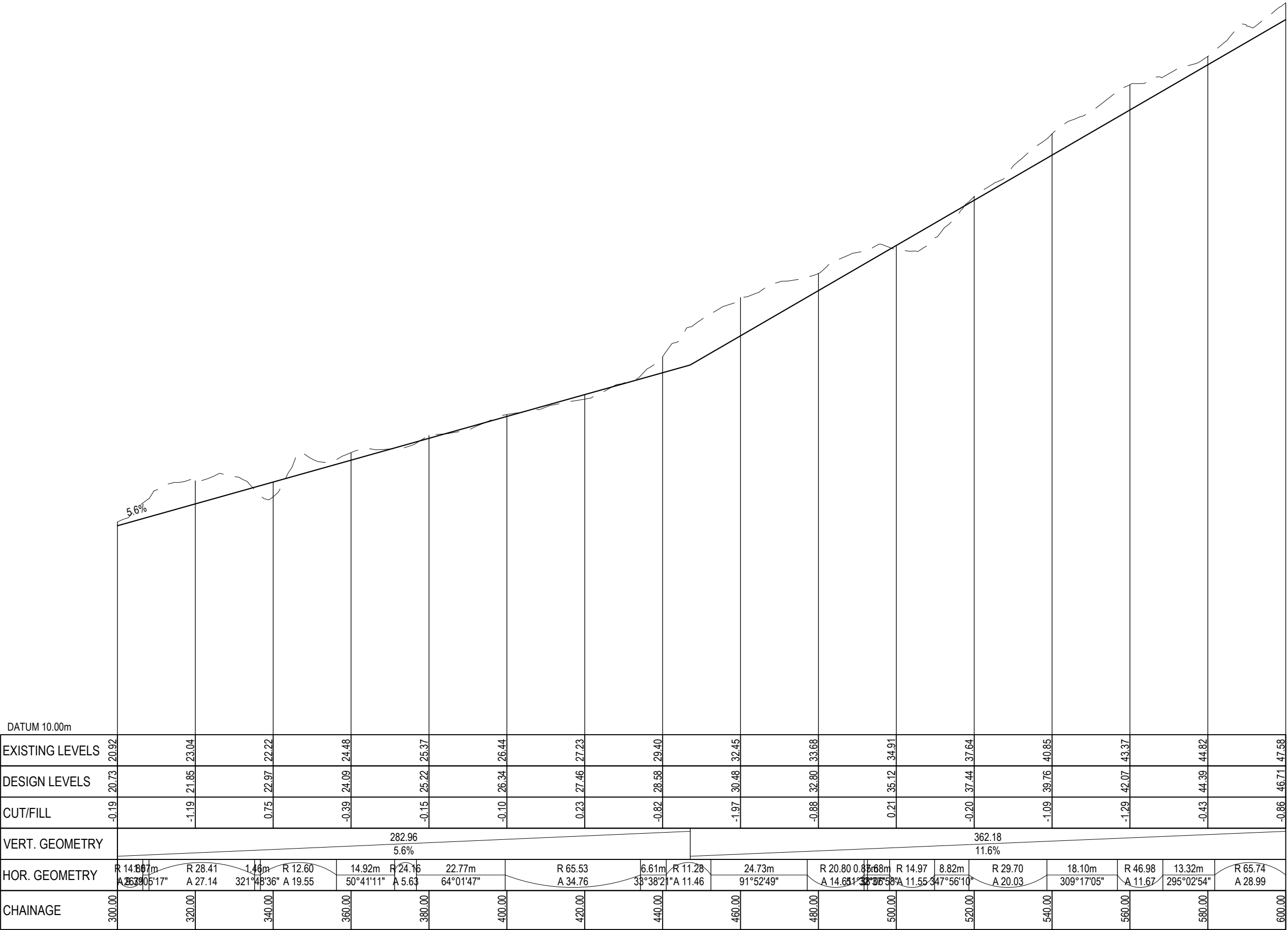
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
SHARED PATH
LONGSECTIONS**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROADING LS.DWG		
Drawing no.	C328-1	Rev	A

DATE: 4/2025 FILEPATH: F:\Maven\PROJECTS\17016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320 ROAD\LS.DWG



PR SHARED PATH LONGSECTION (CH 300 - CH 600)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
—— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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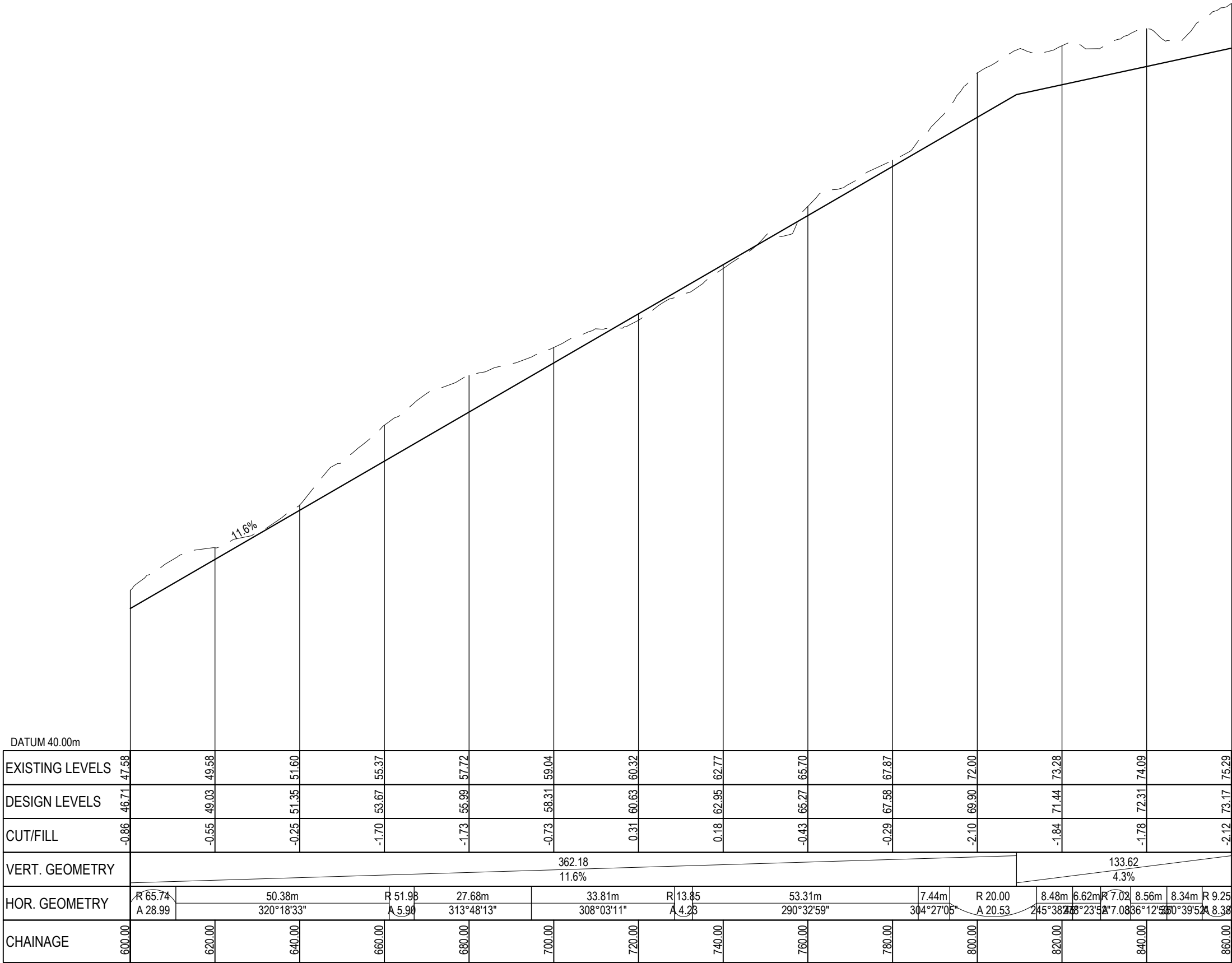
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Project
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
SHARED PATH
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C328-2
Rev	A

DATE: 4/20/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320 ROAD\LS.DWG



PR SHARED PATH LONGSECTION (CH 600 - CH 860)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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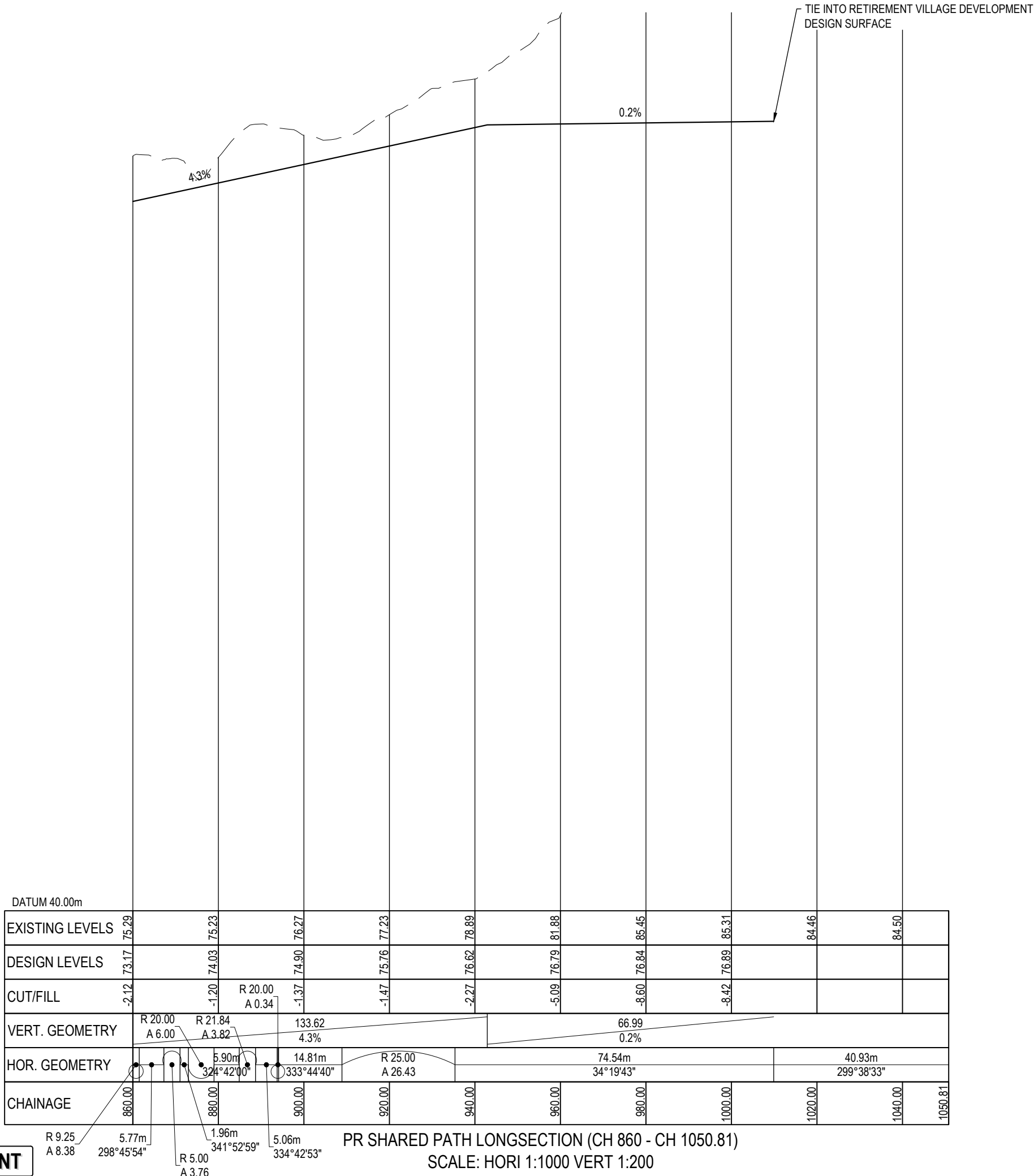
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
SHARED PATH
LONGSECTIONS**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C328-3
Rev	A

DATE: 4/2025 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 147016-RV-C320 ROAD\LS.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	IZ	05/2025	
Drawn	SP	03/2025	
Checked	RW/KH	03/2025	

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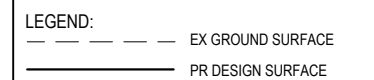
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Project			
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP			
Title			
RETIREMENT VILLAGE SHARED PATH LONGSECTIONS			
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C320 ROAD\LS.DWG		
Drawing no.	C328-4	Rev	A

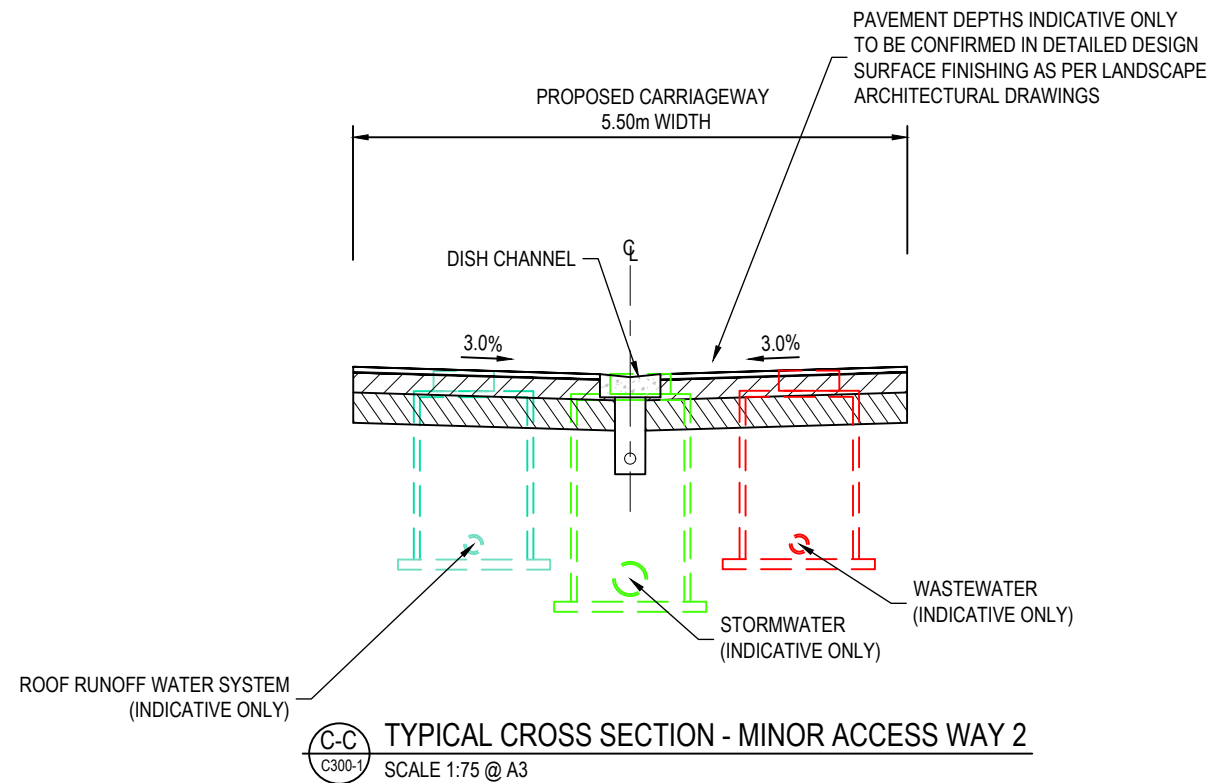
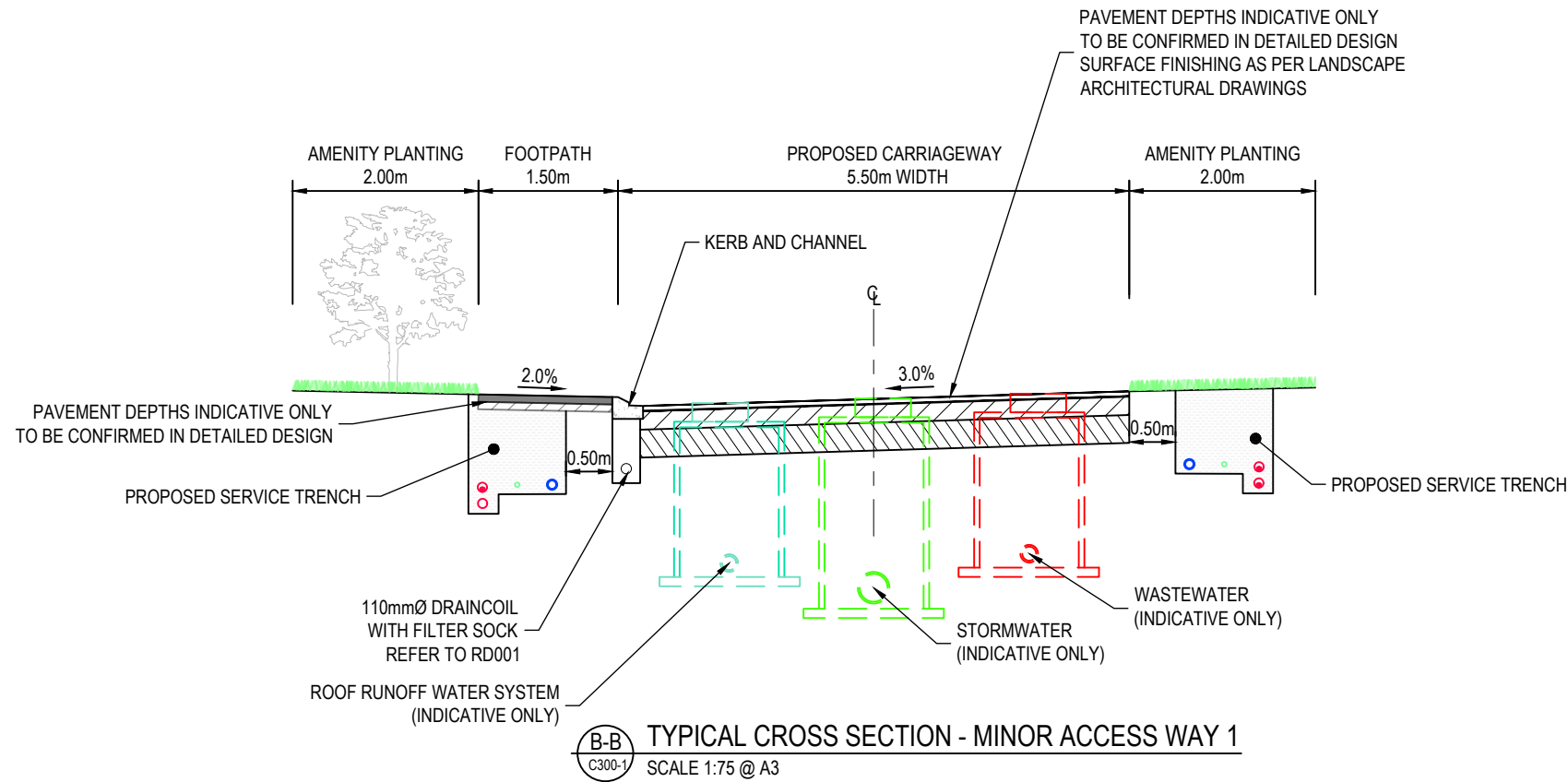


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Title
**RETIREMENT VILLAGE
ACCESS WAY TYPICAL
CROSS SECTIONS**

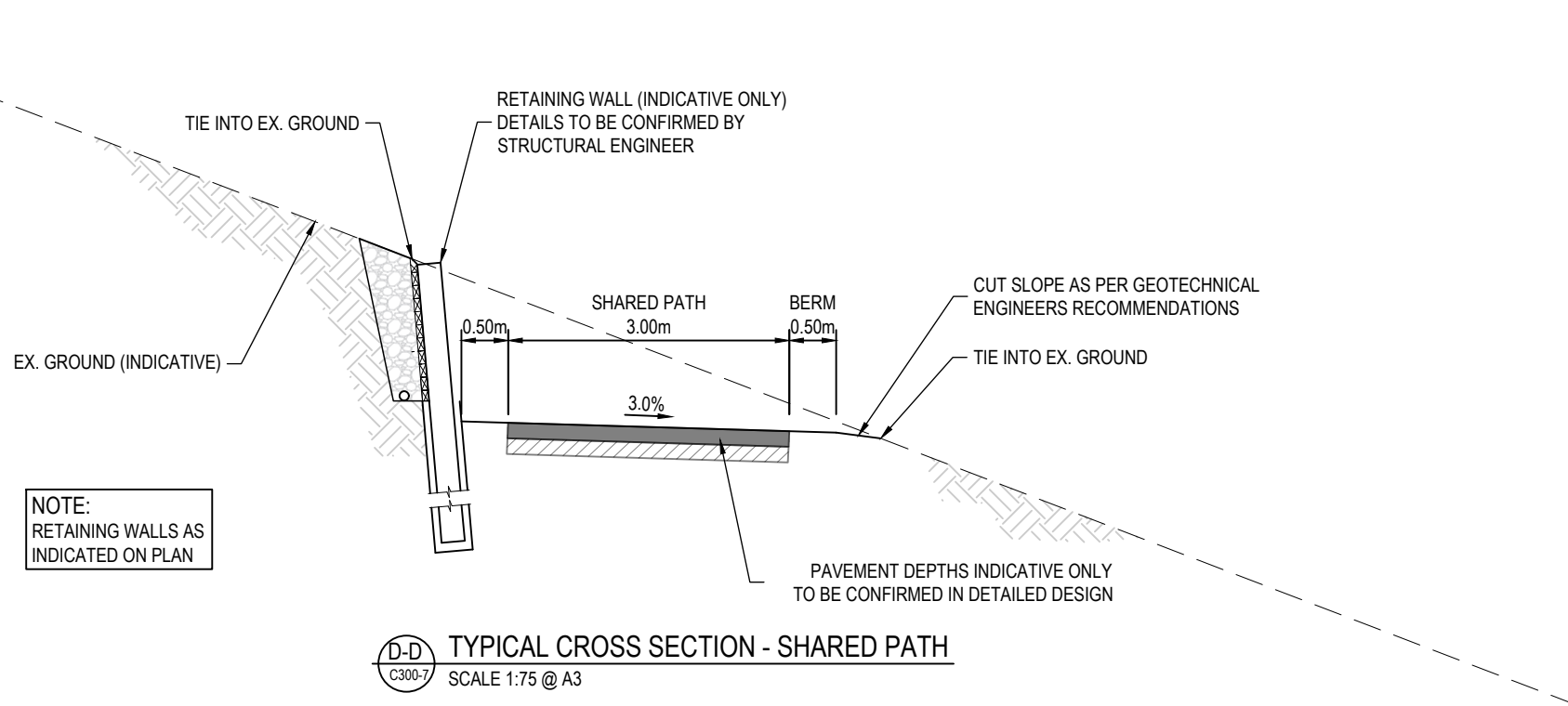
Project no.	147016		
Scale	1:75 @ A3		
Cad file	147016-RV-C340-ROADING X SECTIONS.DWG		
Drawing no.	C340	Rev	A

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C340-ROADING X SECTIONS.DWG



RESOURCE CONSENT

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		02/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025
<div><div><div>M</div><div>MAVEN</div></div><div><div>Maven Associates</div><div>09 571 0050</div><div>info@maven.co.nz</div><div>www.maven.co.nz</div><div>5 Owens Road, Epsom</div><div>Auckland 1023</div></div></div>			
Project DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP			
Title RETIREMENT VILLAGE ACCESS WAY TYPICAL CROSS SECTIONS			
Project no.	147016		
Scale	1:75 @ A3		
Cad file	147016-RV-C340-ROADING X SECTIONS.DWG		
Drawing no.	C341	Rev	A



NOTE:
RETAINING WALLS AS
INDICATED ON PLAN

D-D TYPICAL CROSS SECTION - SHARED PATH
C300-7 SCALE 1:75 @ A3

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	02/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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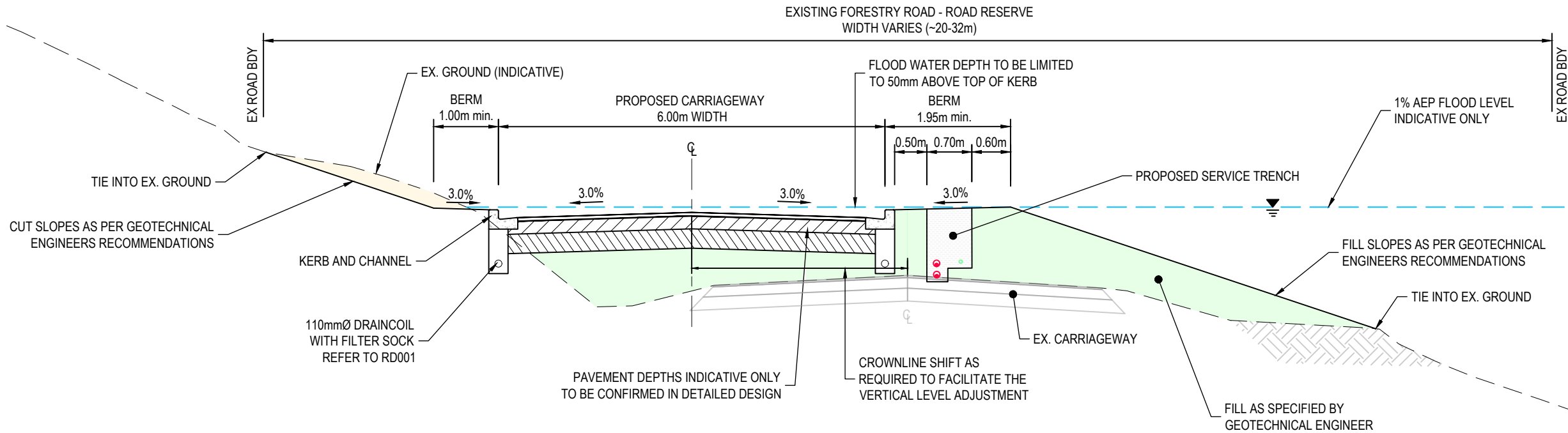
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ACCESS WAY TYPICAL
CROSS SECTIONS**

Project no.	147016
Scale	1:75 @ A3
Cad file	147016-RV-C340-ROADING X SECTIONS.DWG
Drawing no.	C342
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C340-ROADING X SECTIONS.DWG



E-E TYPICAL CROSS SECTION - FORESTRY ROAD UPGRADE
C300-9 SCALE 1:75 @ A3

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	02/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

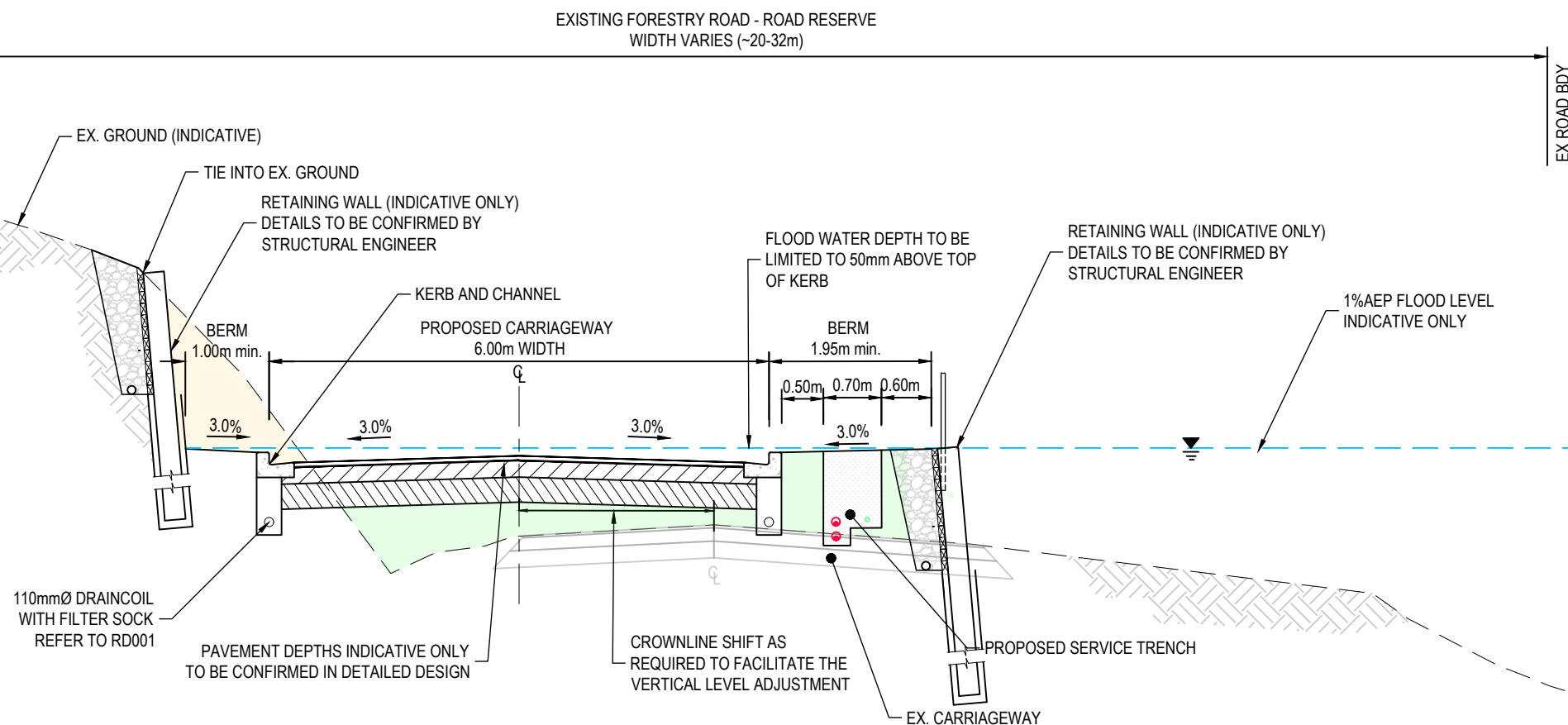


Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
ROADING TYPICAL
CROSS SECTIONS**

Project no.	147016
Scale	1:75 @ A3
Cad file	147016-RV-C340-ROADING X SECTIONS.DWG
Drawing no.	C343
Rev	A

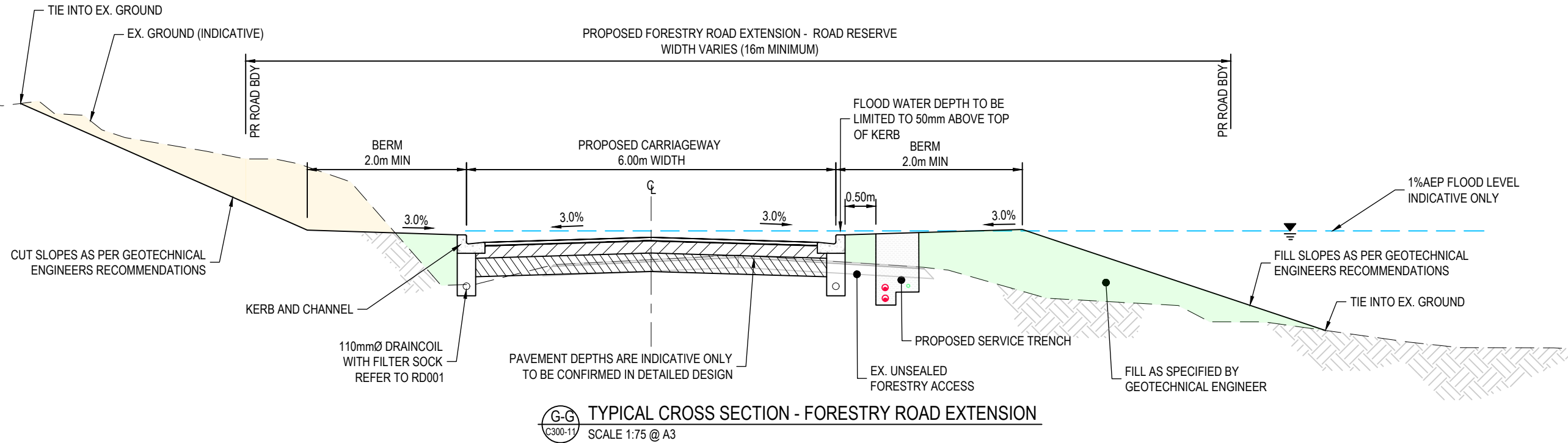
NOTE:
WALLS TO BE ON SINGLE SIDE OR BOTH
AS INDICATED ON PLAN



F-F TYPICAL CROSS SECTION - FORESTRY ROAD UPGRADE
C300-9 SCALE 1:75 @ A3

RESOURCE CONSENT

DATE: 10/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C340-ROADING X SECTIONS.DWG



LEGEND:

--- EX GROUND SURFACE

--- PR DESIGN SURFACE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	02/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

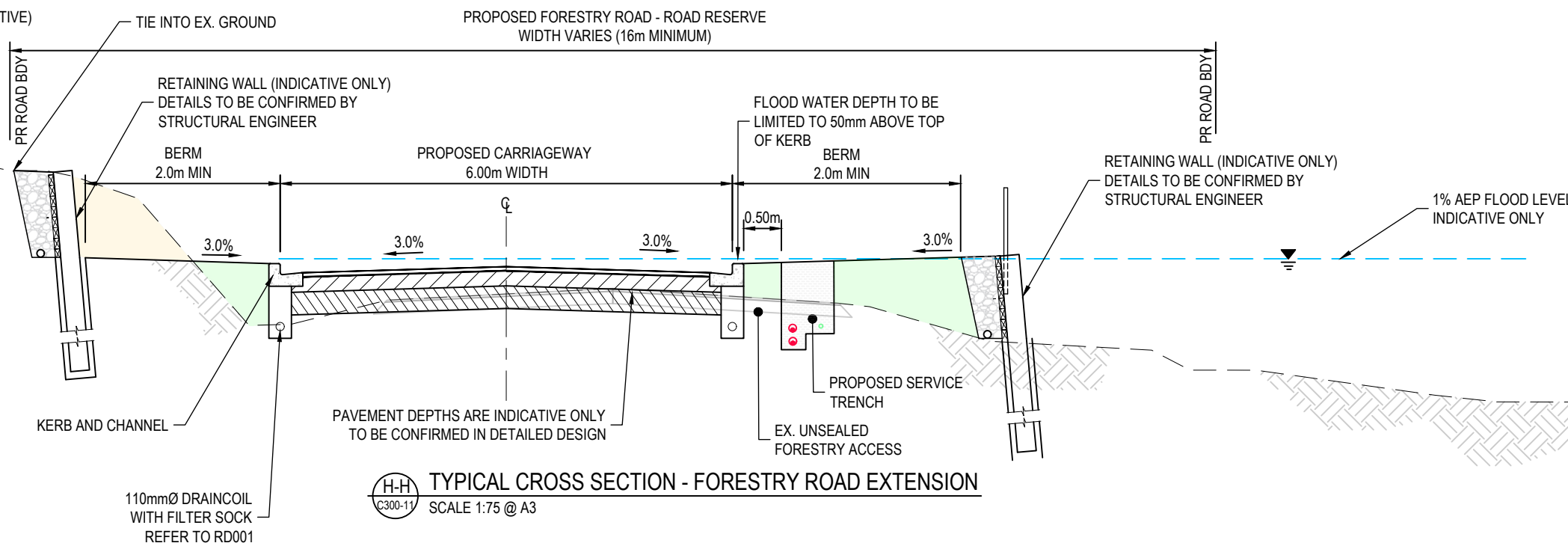
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

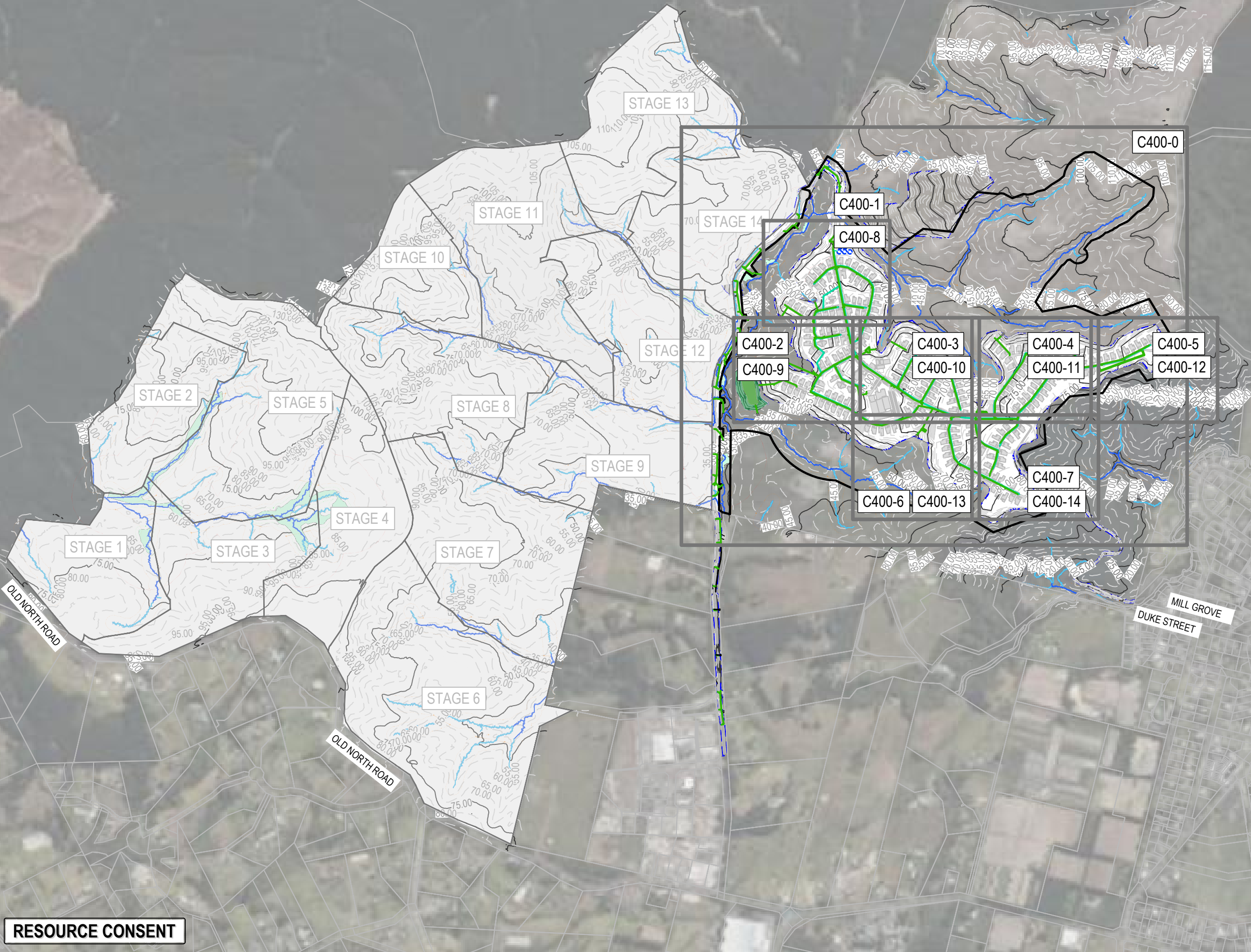
Title
**RETIREMENT VILLAGE
ROADING TYPICAL
CROSS SECTIONS**

Project no.	147016
Scale	1:75 @ A3
Cad file	147016-RV-C340-ROADING X SECTIONS.DWG
Drawing no.	C344
Rev	A

NOTE:
WALLS TO BE ON SINGLE SIDE OR BOTH
AS INDICATED ON PLAN



RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 3. 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).
 4. 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.
 5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 7. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 8. ALL CATCHPIT LEADS ARE 225mm DIAMETER AND SHALL HAVE MIN COVER 1.0m
 9. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 10. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.
 11. ALL ROOF WATER RUNOFF PIPE TO BE 150mm uPVC SN16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY
 - PR BDY
 - EX STORMWATER
 - PR STORMWATER ROAD
 - PR STORMWATER ROOF
 - PR EXTENT WORK
 - EX/PR SWMH (ROAD/ROOF)
 - PR DOUBLE/ SINGLE SWCP
 - PR SW RAINGARDEN
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED STORMWATER
OVERVIEW PLAN**

Project no.	147016		
Scale	1:10,000 @ A3		
Cad file	147016-RV-C400 STORMWATER.DWG		
Drawing no.	C400	Rev	A

RESOURCE CONSENT



PROPOSED WATER QUALITY TREATMENT FOR ROADS

Outfall/ RG	Catchment	Proposed Raingarden Footprint area m²	Treatment Type	Number of Cartridges Required	StormFilter Drawing	
					Online	Peak Diversion
1-0	1+50	113.0	Storm Filter	12	Storm Filter Vault	2800W X 3650L X 2150 D
2-0	2	34.0	Storm Filter	4	SF-MH-69-1500-T-20	SF-MH-PD-69-1800-T-20
3-0	3	11.0			no treatment proposed, less than 10 lots.	
4-0	7	7.0			no treatment proposed, less than 10 lots.	
5-0	6	100.0			Communal RG	
6-0	5	89.0			JELLYFISH 3 JF-MH-54-1200-T-OFF-20	
7-0	4	13.0			no treatment proposed, less than 10 lots.	
8-0	8	54.0			Communal RG	
9-0	9	140.0			Communal RG	
10-0	10+51	17.0			no treatment proposed, serving less than 10 carparks, if required stormfilter	

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR 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).
 - 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.
 - 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 MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 - ALL CATCHPIT LEADS ARE 225mm DIAMETER AND SHALL HAVE MIN COVER 1.0m
 - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 - ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.
 - ALL ROOF WATER RUNOFF PIPE TO BE 150mm uPVC SN16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY
 - PR BDY
 - EX STORMWATER
 - PR STORMWATER ROAD
 - PR STORMWATER ROOF
 - PR EXTENT WORK
 - EX/PR SWMH (ROAD/ROOF)
 - PR DOUBLE/ SINGLE SWCP
 - PR SW RAINGARDEN
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED
STORMWATER PLAN**

Project no.	147016
Scale	1:4000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-0
Rev	A

STAGE 14

PR SW POND

RESOURCE CONSENT



FORESTRY ROAD EXTENSION

PROPOSED SW FILTER VAULT
DIMENSION: 3.61m L*2.8m W*2.15m D

WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 3. 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).
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 - PR SW RAINGARDEN
 - RIPIARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
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A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



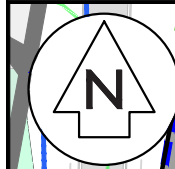
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROAD
STORMWATER PLAN**

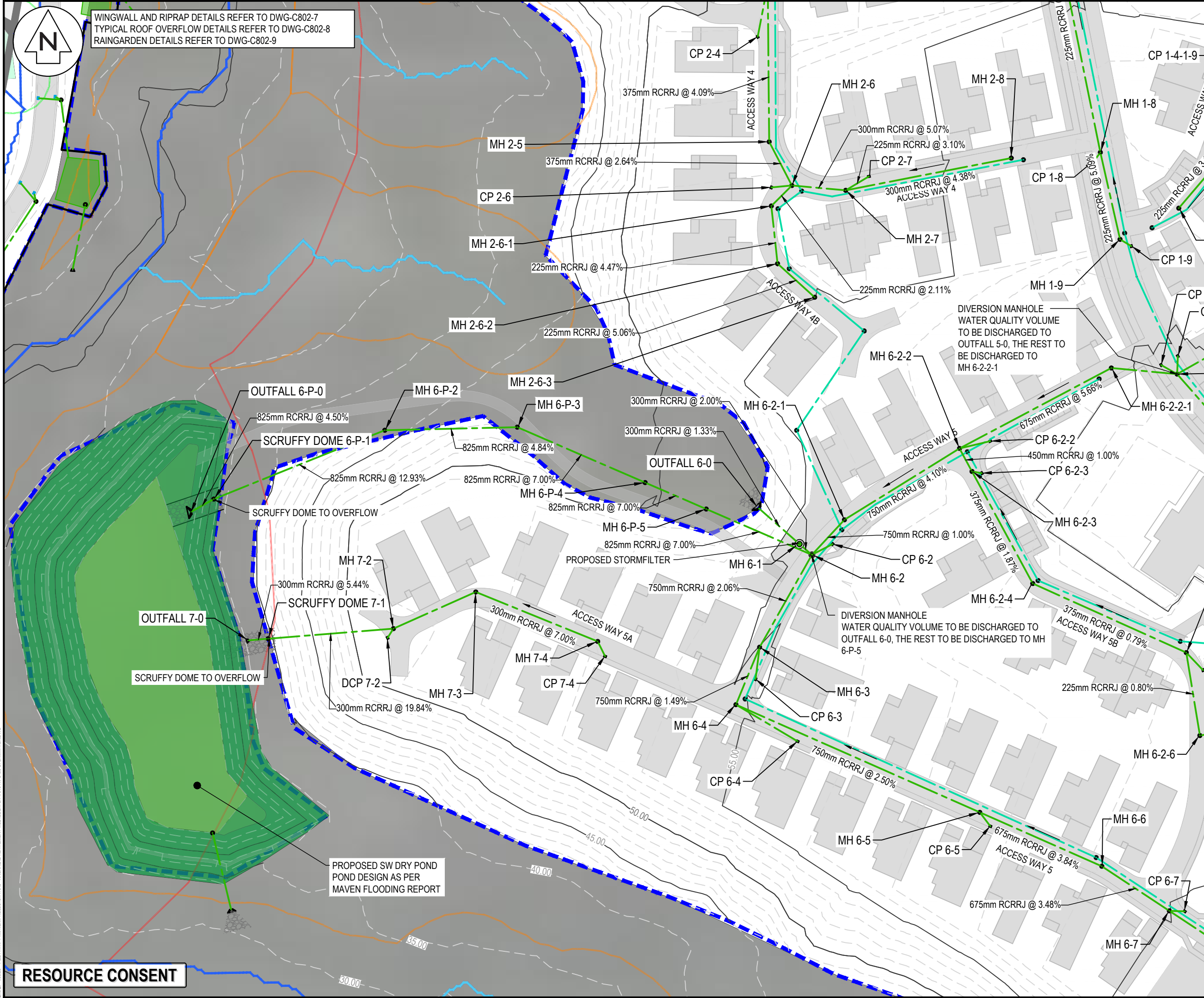
Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-1
Rev	A

RESOURCE CONSENT

DATE: 10/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9



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Rev	Description	By	Date
A	RESOURCE CONSENT	AYC	03/2025

Survey	LIDAR	03/2022
Design	AO/AYC	03/2025
Drawn	AYC	03/2025
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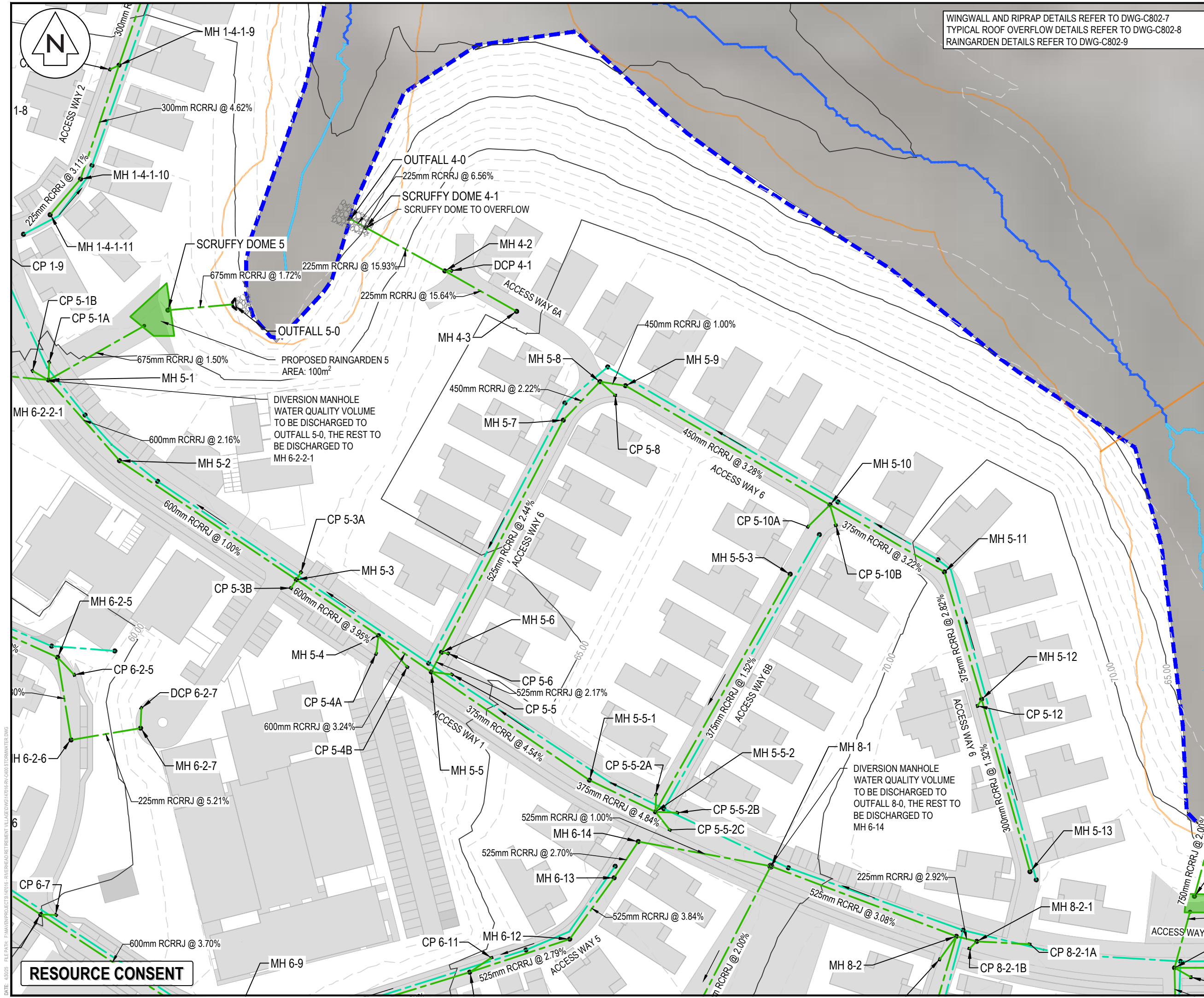
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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROAD STORMWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-2
Rev	A

DATE: 10/03/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9

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Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROAD
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-3
Rev	A

DATE: 4/2025 FILE PATH: F:\Maven\Projects\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG

RESOURCE CONSENT



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9

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A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROAD
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-4
Rev	A

RESOURCE CONSENT

DATE: 4/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
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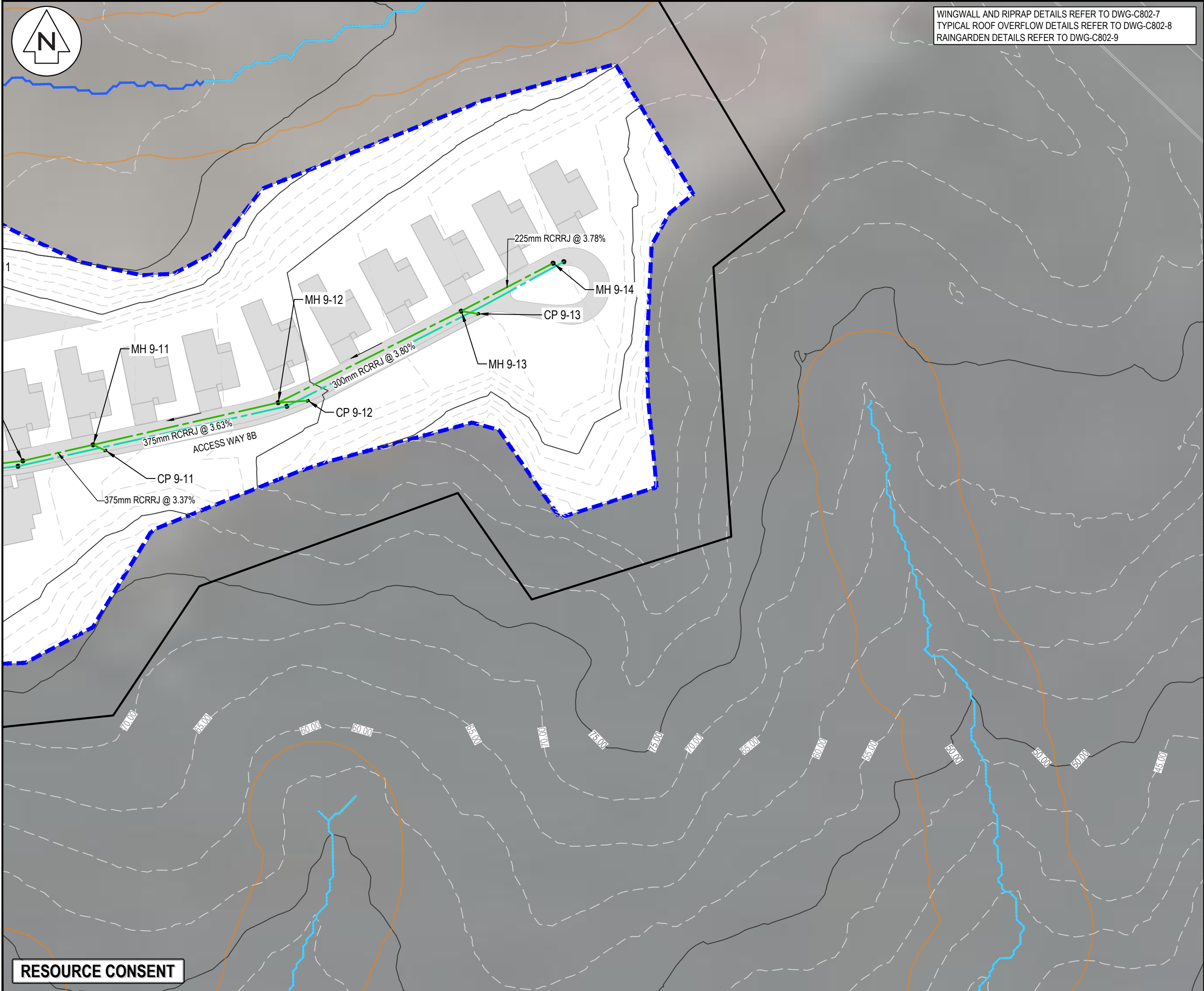
A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
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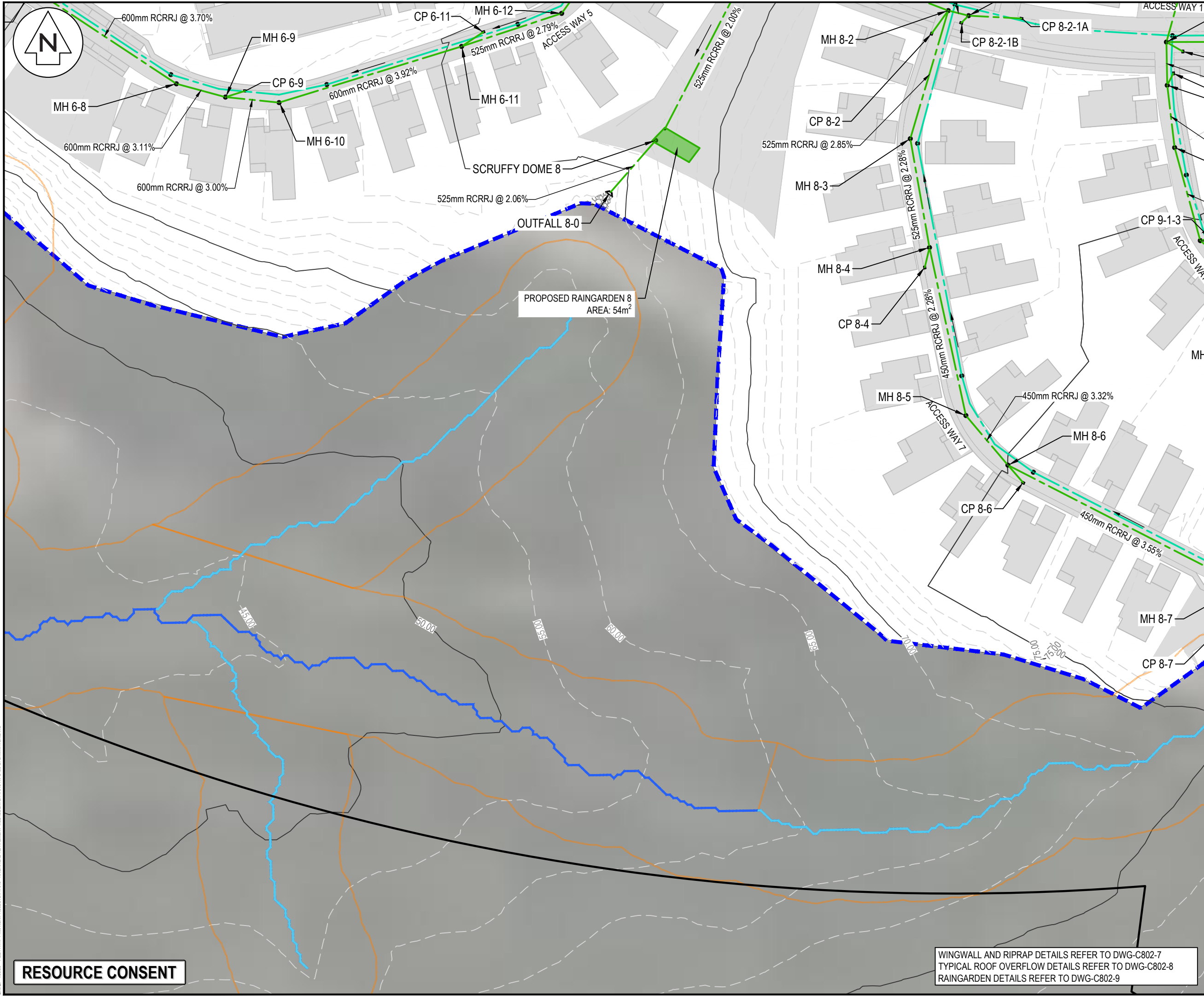
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROAD
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-5
Rev	A



DATE: 10/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG



RESOURCE CONSENT

WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
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A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
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Project

**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title

**RETIREMENT VILLAGE
PROPOSED ROAD
STORMWATER PLAN**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C400 STORMWATER.DWG		
Drawing no.	C400-6	Rev	A



FORESTRY ROAD EXTENSION

WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9

ROOF RUNOFF WATER DISCHARGE POINT
INTO RAW WATER STORAGE TANK TO
WATER SUPPLY SYSTEM DESIGNED BY GWE
CONSULTING ENGINEERS

OUTFALL 1-0

ACCESS WAY

375mm uPVC SN16 @ 19.04%

MH R1-1

MH R1-2

MH R1-3

375mm uPVC SN16 @ 6.78%

MH R2-1

MH R3-1

375mm uPVC SN16 @ 2.86%

MH R1-4

375mm uPVC SN16 @ 3.22%

MH R2-2

MH R3-2

ACCESS WAY 3

MH R1-5

50.00
300mm uPVC SN16 @ 1.00%

300mm uPVC SN16 @ 6.28%

MH R4-1

MH R4-2

225mm uPVC SN16 @ 0.98%

MH R4-3

MH R4-2-1

ACCESS WAY 4

MH R1-6

MH R5-1

ACCESS WAY 2A

MH R2-3

ACCESS WAY 2

MH R2-4

ACCESS WAY 4A

SN16 @ 3.72%

VC SN16 @ 4.90%

CP 1-4-1-9

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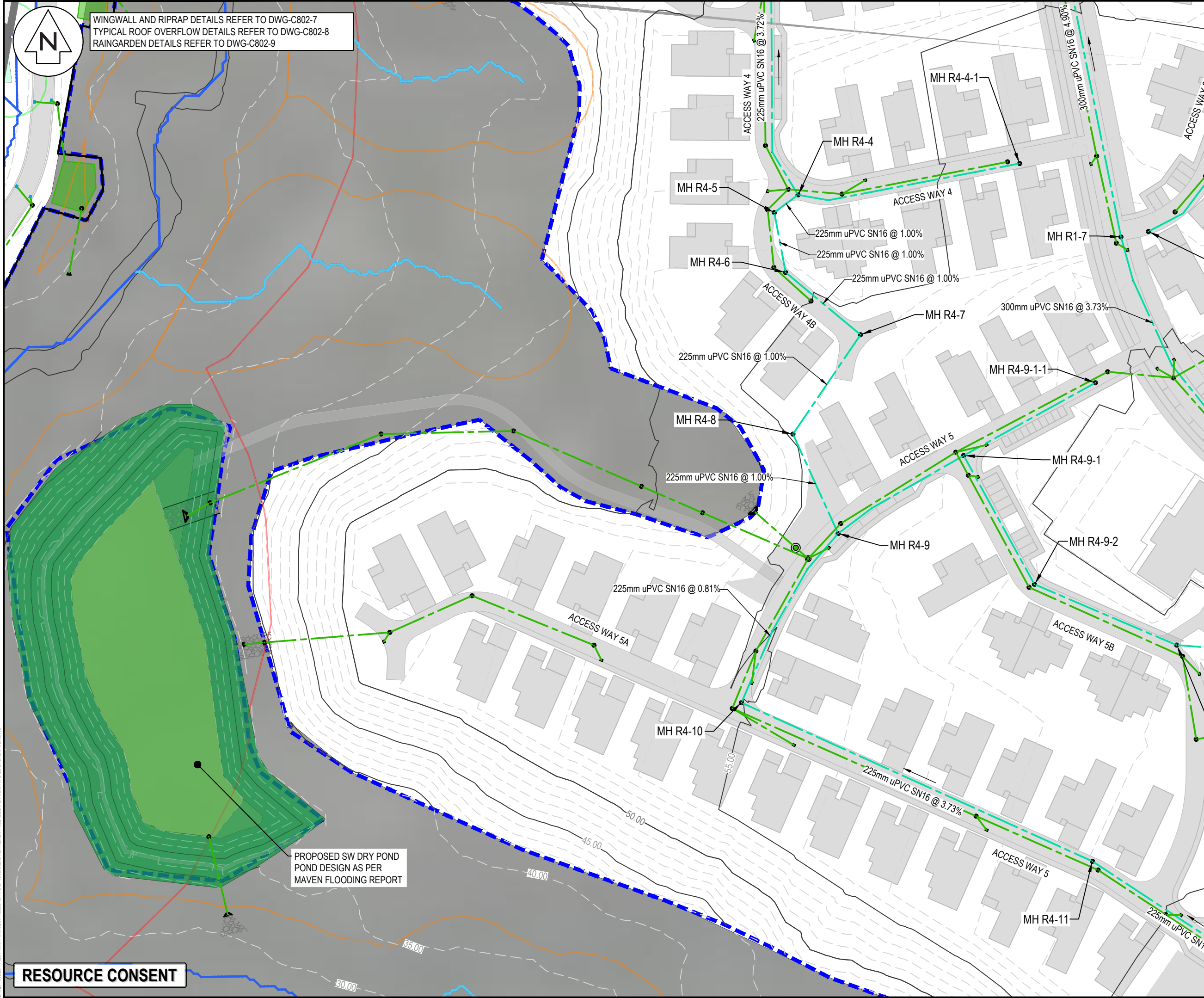
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROOF
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-8
Rev	A

RESOURCE CONSENT

DATE: 10/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
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PROPOSED SW DRY POND
POND DESIGN AS PER
MAVEN FLOODING REPORT

RESOURCE CONSENT

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 - PR BDY
 - EX STORMWATER
 - PR STORMWATER ROAD
 - PR STORMWATER ROOF
 - PR EXTENT WORK
 - EX/PR SWMH (ROAD/ROOF)
 - PR DOUBLE/ SINGLE SWCP
 - PR SW RAINGARDEN
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



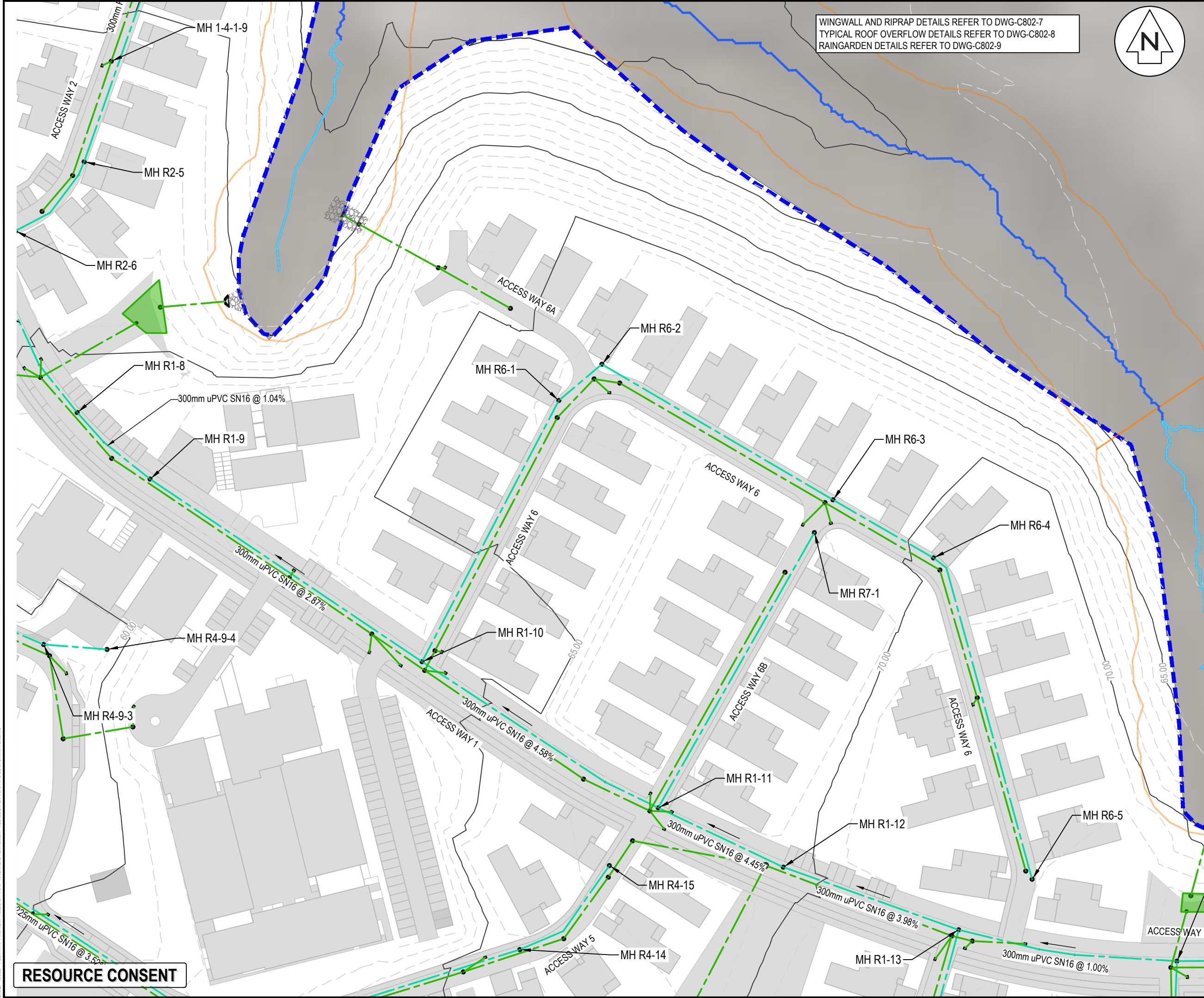
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Auckland 1023

Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROOF
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-9
Rev	A

DATE: 10/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 3. 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).
 4. 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.
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 6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 7. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 8. ALL CATCHPIT LEADS ARE 225mm DIAMETER AND SHALL HAVE MIN COVER 1.0m
 9. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 10. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.
 11. ALL ROOF WATER RUNOFF PIPE TO BE 150mm uPVC SN16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY
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 - EX STORMWATER
 - PR STORMWATER ROAD
 - PR STORMWATER ROOF
 - PR EXTENT WORK
 - EX/PR SWMH (ROAD/ROOF)
 - PR DOUBLE/ SINGLE SWCP
 - PR SW RAINGARDEN
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 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROOF
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-10
Rev	A

RESOURCE CONSENT



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9

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A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

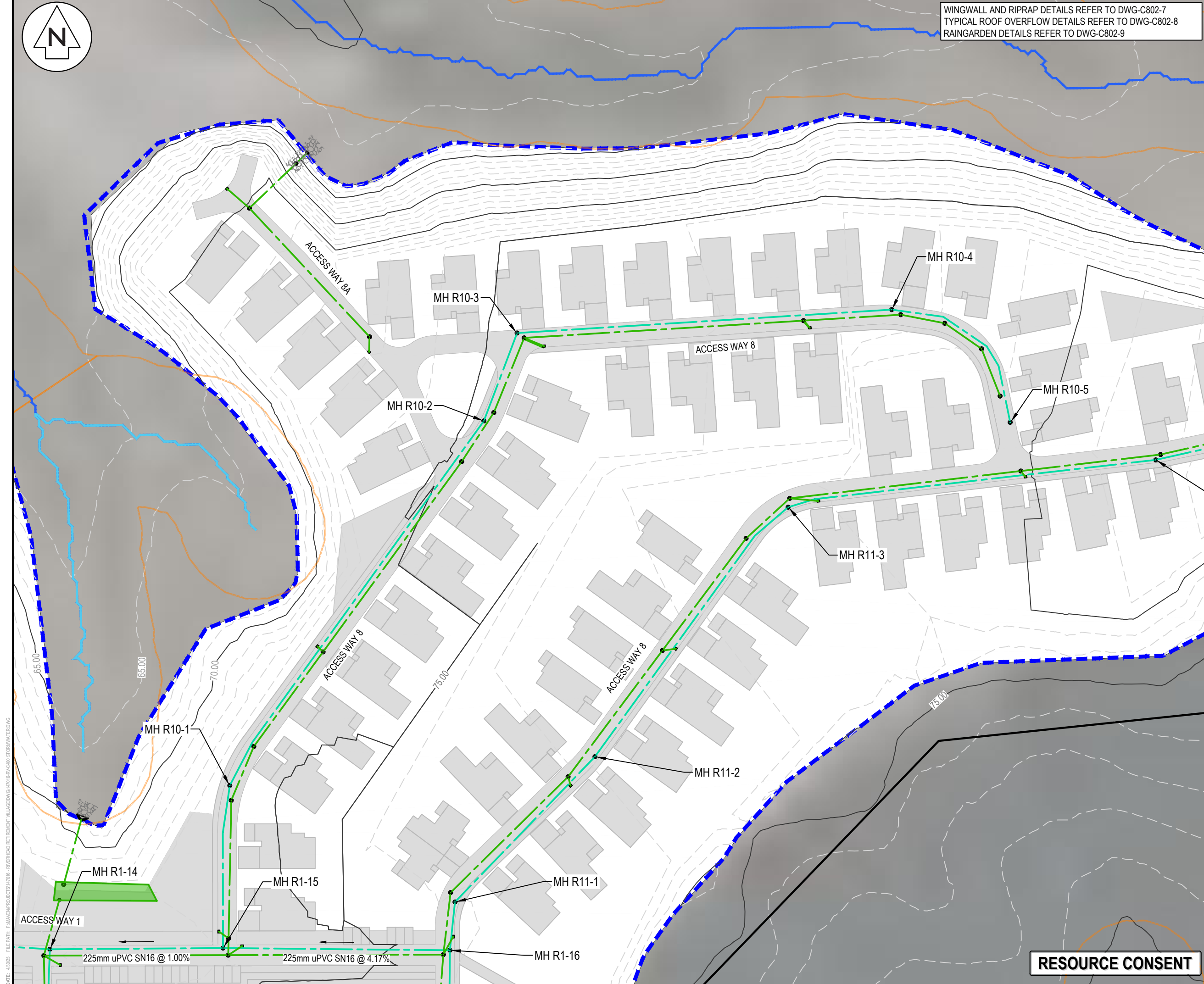
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
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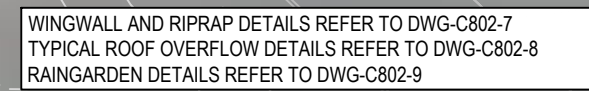
Title
**RETIREMENT VILLAGE
PROPOSED ROOF
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-11
Rev	A

RESOURCE CONSENT



DATE: 10/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG



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LEGEND

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 - PR SW RAIN GARDEN
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 - WETLAND AREA 100m SETBACK
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A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AO/AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



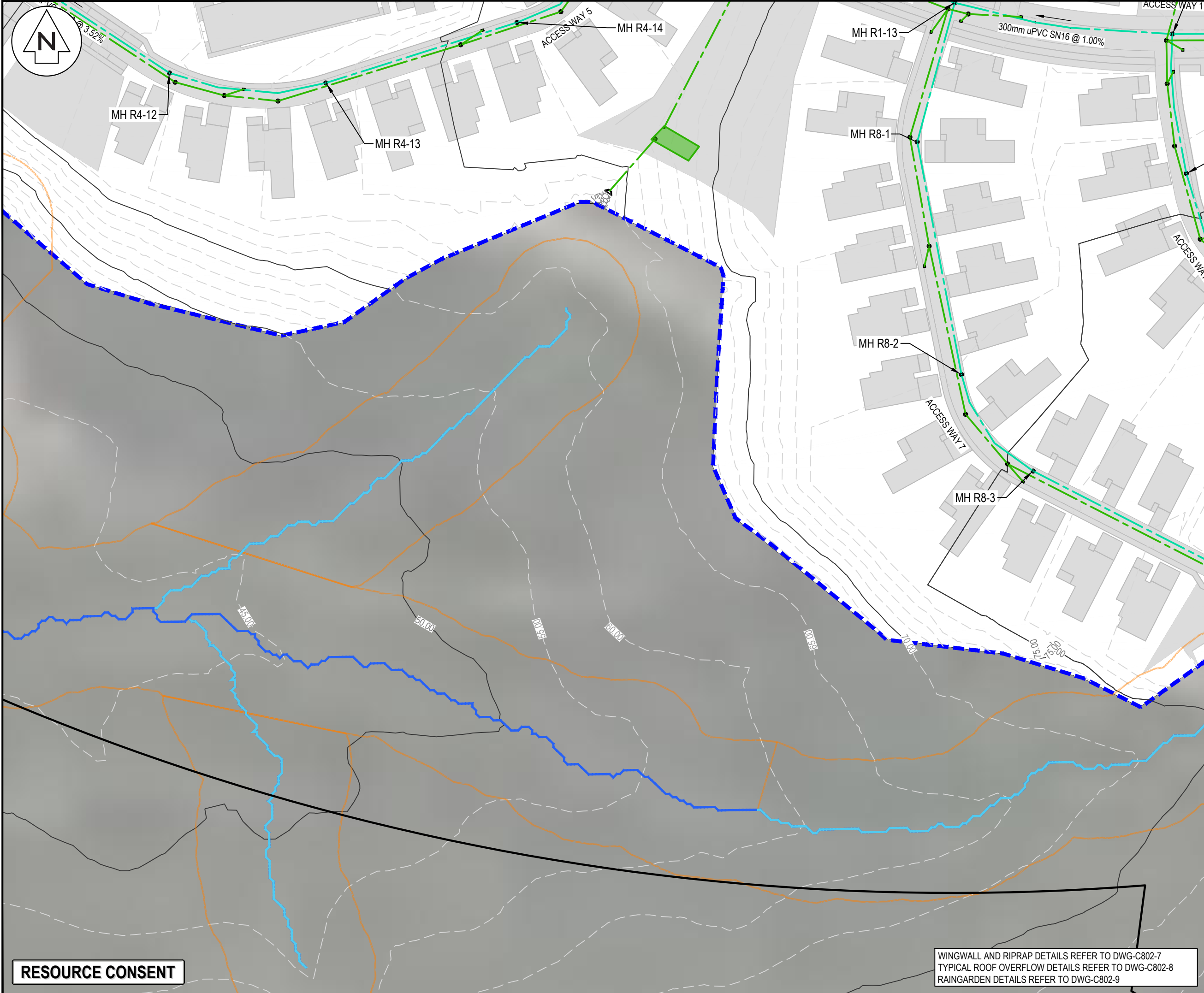
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED ROOF
STORMWATER PLAN**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C400 STORMWATER.DWG		
Drawing no.	C400-12	Rev	A

DATE: 4/30/25 FILE PATH: F:\MAYEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C-400 STORMWATER.DWG

RESOURCE CONSENT



NOTES

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- WETLAND AREA 10m SETBACK
- EX STREAMS

Rev	Description	By	Date
A	RESOURCE CONSENT	AYC	03/2025
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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Project

DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title

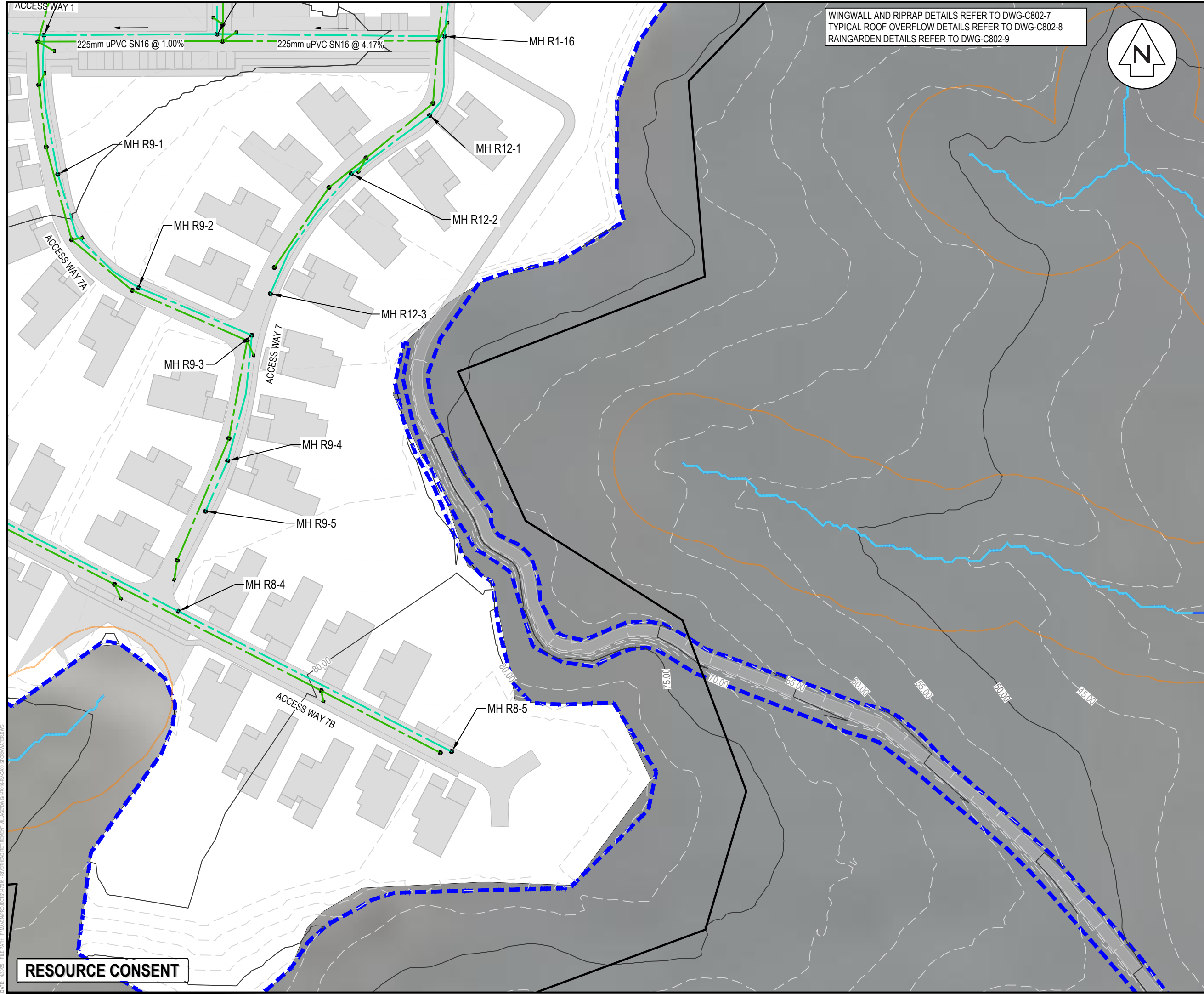
RETIREMENT VILLAGE PROPOSED ROOF STORMWATER PLAN

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C400 STORMWATER.DWG		
Drawing no.	C400-13	Rev	A

WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
TYPICAL ROOF OVERFLOW DETAILS REFER TO DWG-C802-8
RAINGARDEN DETAILS REFER TO DWG-C802-9

DATE: 4/03/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C400 STORMWATER.DWG

RESOURCE CONSENT



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
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 - PR SW RAINGARDEN
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A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



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**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

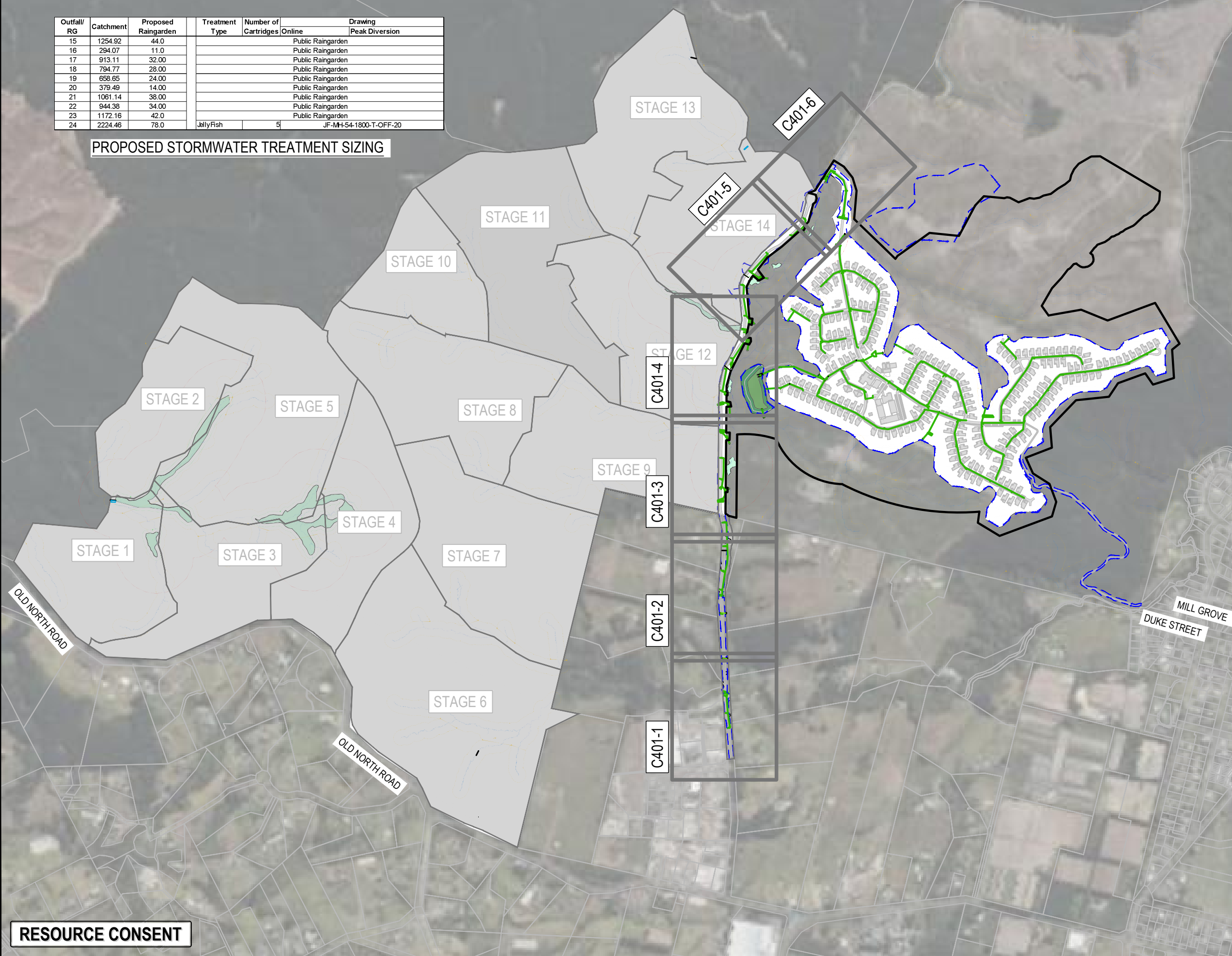
Title
**RETIREMENT VILLAGE
PROPOSED ROOF
STORMWATER PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-14
Rev	A



Outfall/ RG	Catchment	Proposed Raingarden	Treatment Type	Number of Cartridges	Online	Drawing Peak Diversion
15	1254.92	44.0				Public Raingarden
16	294.07	11.0				Public Raingarden
17	913.11	32.00				Public Raingarden
18	794.77	28.00				Public Raingarden
19	658.65	24.00				Public Raingarden
20	379.49	14.00				Public Raingarden
21	1061.14	38.00				Public Raingarden
22	944.38	34.00				Public Raingarden
23	1172.16	42.0				Public Raingarden
24	2224.46	78.0	JellyFish	5		JF-MH-54-1800-T-OFF-20

PROPOSED STORMWATER TREATMENT SIZING



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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 - EX STREAMS
 - PR RET. WALL > 1.0m
 - PR SW RAINGARDEN
 - WETLAND

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED STORMWATER
OVERVIEW PLAN**

Project no.	147016
Scale	1:10,000 @ A3
Cad file	147016-RV-C401 SW EXTENSION.DWG
Drawing no.	C401
Rev	A

RESOURCE CONSENT



SAWMILL ROAD

- NOTES:
- REFER TO 147016-C490 DRAWINGS FOR CULVERT DETAILS
 - PROPOSED PUBLIC RAINGARDENS HAVE BEEN LOCATED OUTSIDE STREAM 10 YEAR EXTENTS.
 - WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7

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A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
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Drawn	SP		03/2025
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Project
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED STORMWATER
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C401 SW EXTENSION.DWG
Drawing no.	C401-1
Rev	A

RESOURCE CONSENT



- NOTES:
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 - WETLAND AREA 10m SETBACK
 - EX STREAMS
 - PR RET. WALL > 1.0m
 - PR SW RAINGARDEN
 - WETLAND

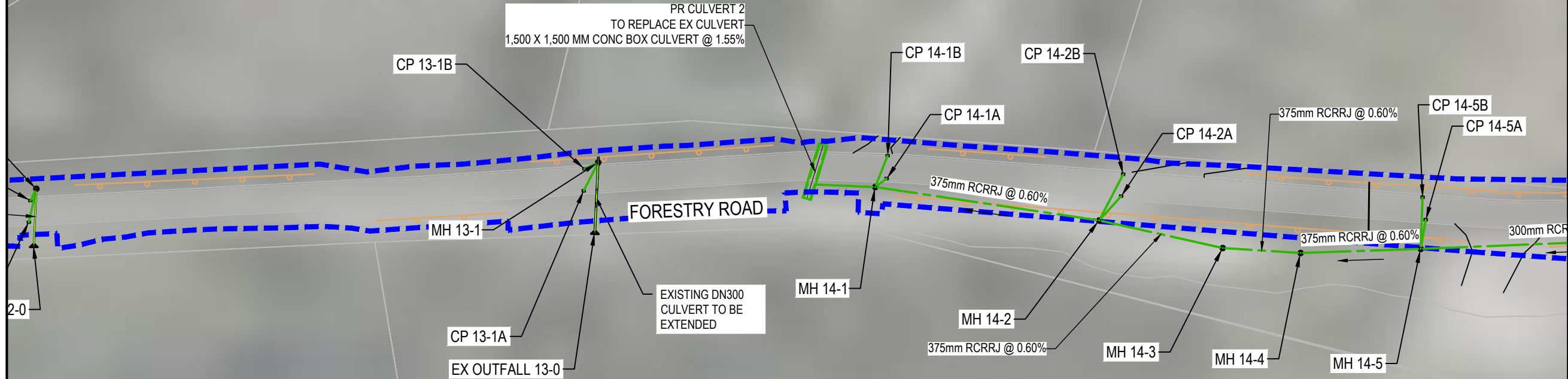
A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	AO		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED STORMWATER
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C401 SW EXTENSION.DWG
Drawing no.	C401-2
Rev	A



RESOURCE CONSENT



- NOTES:
- REFER TO 147016-C490 DRAWINGS FOR CULVERT DETAILS
 - PROPOSED PUBLIC RAINGARDENS HAVE BEEN LOCATED OUTSIDE STREAM 10 YEAR EXTENTS.
 - WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR 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).
 - 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.
 - HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 - ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 - ALL CATCHPIT LEADS ARE 225mm DIAMETER AND SHALL HAVE MIN COVER 1.0m
 - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 - ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX STORMWATER
 - PR STORMWATER ROAD
 - PR STORMWATER ROOF
 - PR EXTENT WORK
 - EX/PR SWMH (ROAD/ROOF)
 - PR SINGLE/DOUBLE SWCP
 - RIPIARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS
 - PR RET. WALL > 1.0m
 - PR SW RAINGARDEN
 - WETLAND

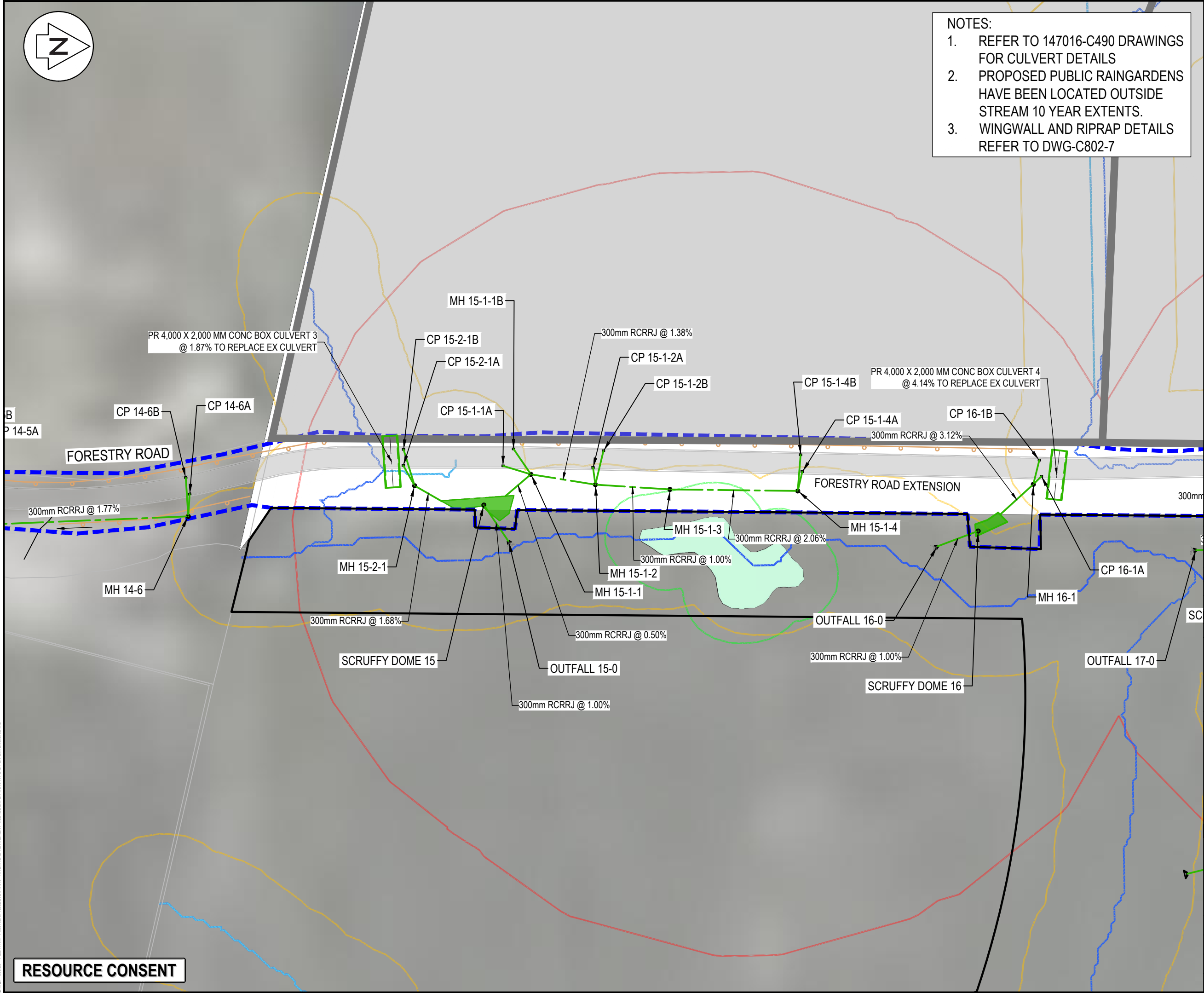
A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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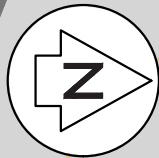
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED STORMWATER
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C401 SW EXTENSION.DWG
Drawing no.	C401-3
Rev	A



RESOURCE CONSENT



- NOTES:
- REFER TO 147016-C490 DRAWINGS FOR CULVERT DETAILS
 - PROPOSED PUBLIC RAINGARDENS HAVE BEEN LOCATED OUTSIDE STREAM 10 YEAR EXTENTS.
 - WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
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 - 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.
 - HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
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 - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 - ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX STORMWATER
 - PR STORMWATER ROAD
 - PR STORMWATER ROOF
 - PR EXTENT WORK
 - EX/PR SWMH (ROAD/ROOF)
 - PR SINGLE/DOUBLE SWCP
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS
 - PR RET. WALL > 1.0m
 - PR SW RAINGARDEN
 - WETLAND

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

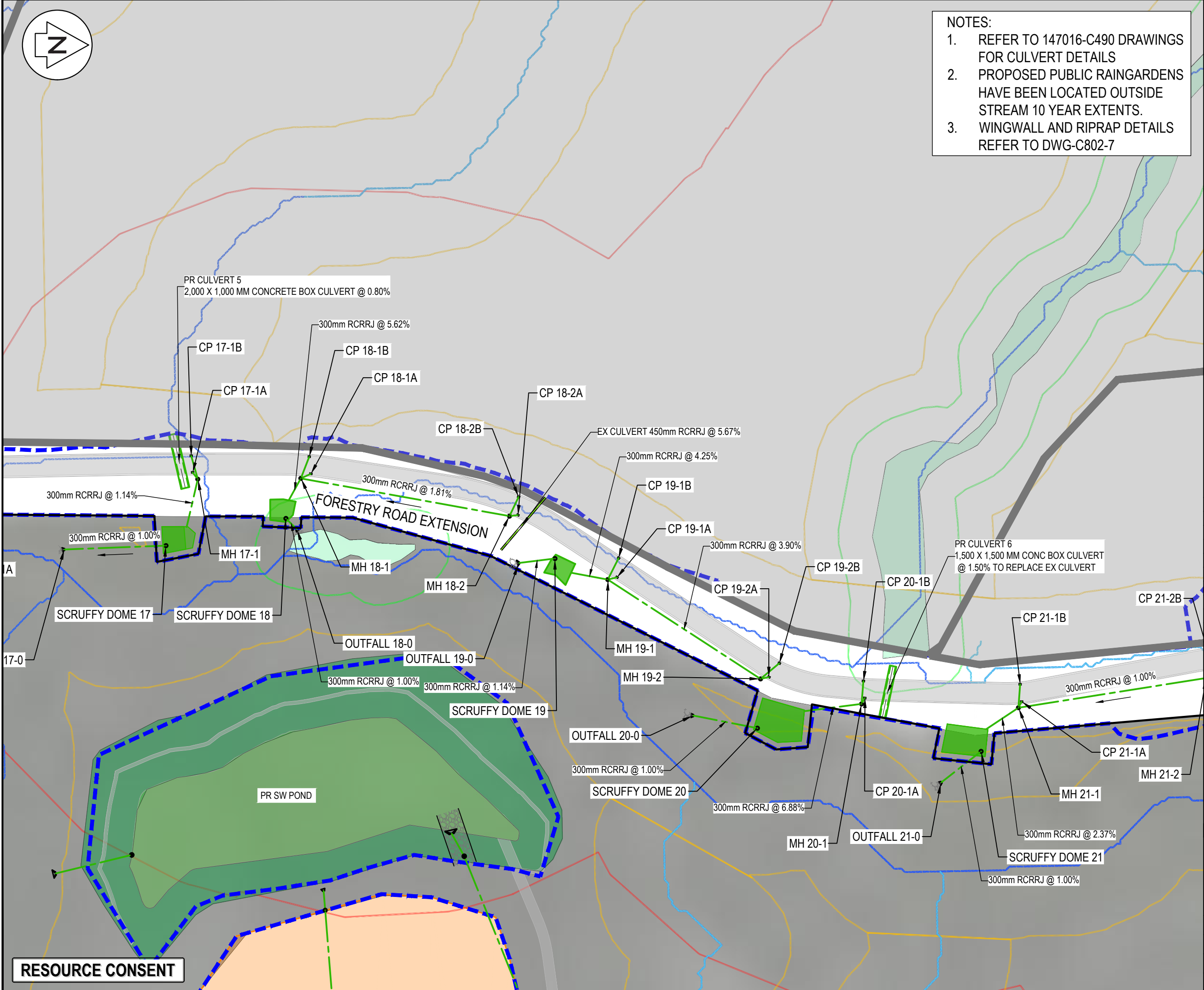


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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED STORMWATER EXTENSION PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C401 SW EXTENSION.DWG
Drawing no.	C401-4
Rev	A



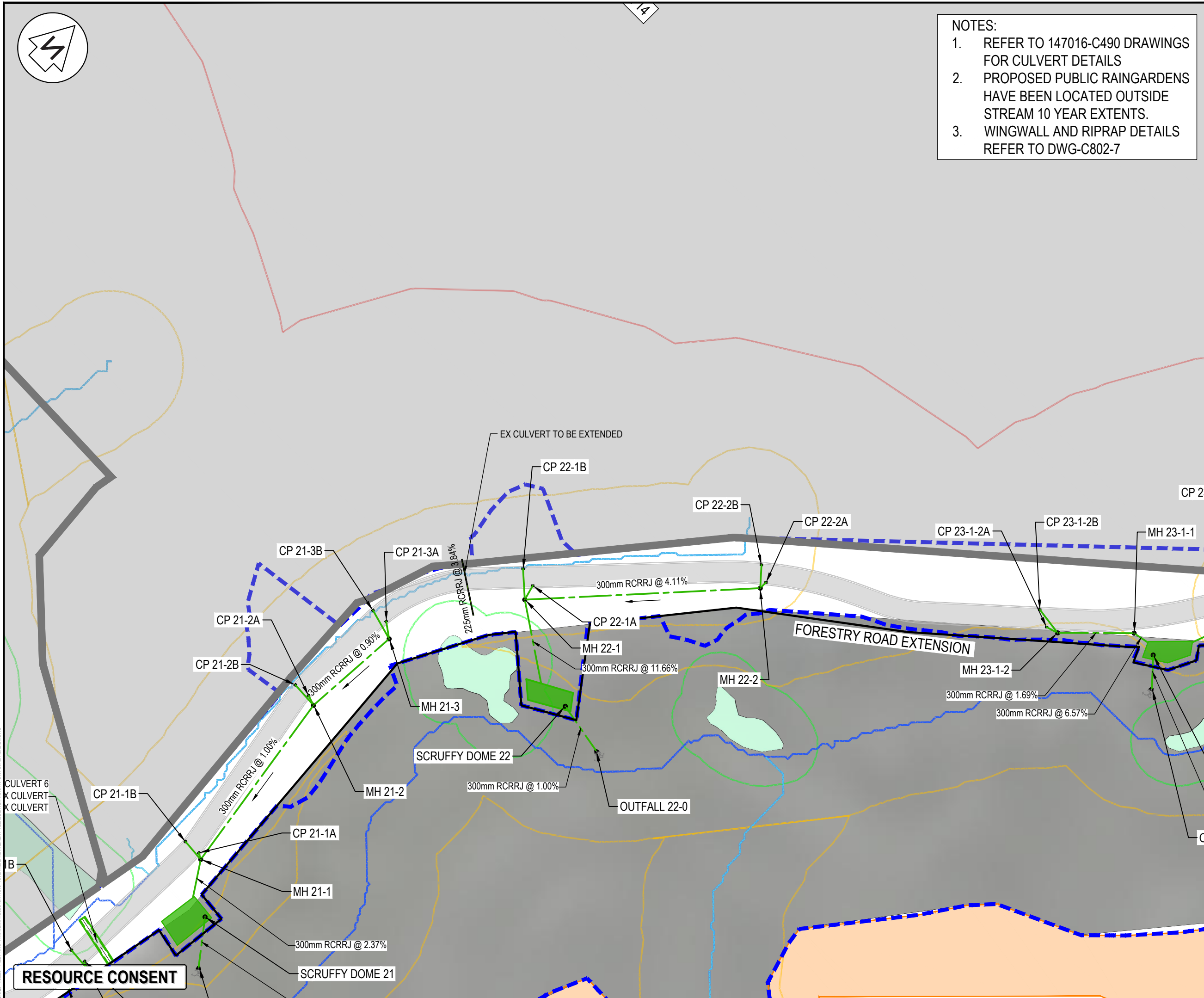
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- NOTES:
1. REFER TO 147016-C490 DRAWINGS FOR CULVERT DETAILS
 2. PROPOSED PUBLIC RAINGARDENS HAVE BEEN LOCATED OUTSIDE STREAM 10 YEAR EXTENTS.
 3. WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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- LEGEND
- EX STORMWATER
 - PR STORMWATER ROAD
 - PR STORMWATER ROOF
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 - EX/PR SWMH (ROAD/ROOF)
 - PR SINGLE/DOUBLE SWCP
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS
 - PR RET. WALL > 1.0m
 - PR SW RAINGARDEN
 - WETLAND



A		RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date	
Survey	LIDAR		03/2022	
Design	AO		03/2025	
Drawn	SP		03/2025	
Checked	RW/KH		03/2025	



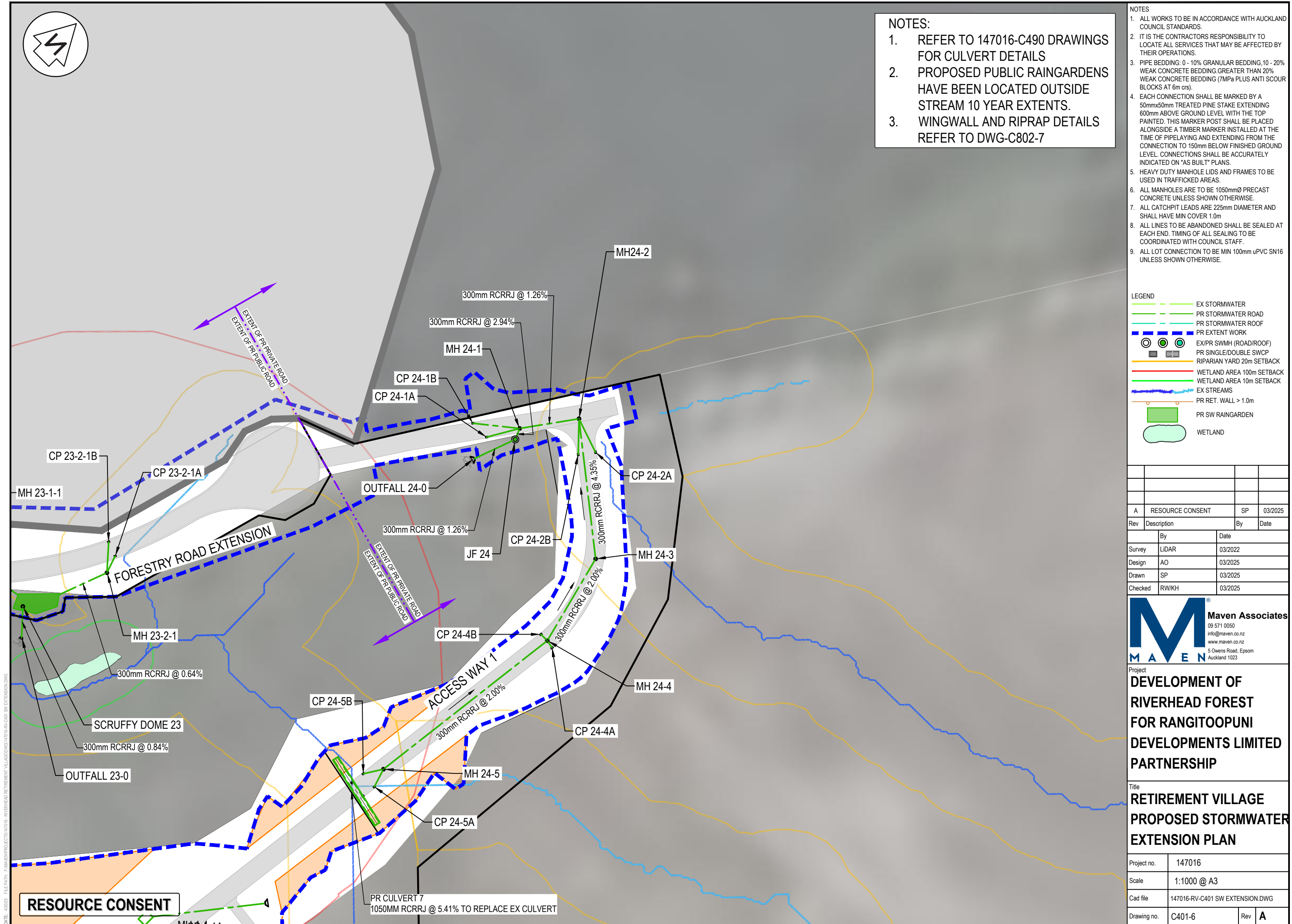
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**














Title
**RETIREMENT VILLAGE
PROPOSED STORMWATER
EXTENSION PLAN**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C401 SW EXTENSION.DWG
Drawing no.	C401-5
Rev	A

DATE: 4/2025 FILE PATH: E:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C401 SW EXTENSION.DWG



1. REFER TO 147016-C490 DRAWINGS FOR CULVERT DETAILS
2. PROPOSED PUBLIC RAINGARDENS HAVE BEEN LOCATED OUTSIDE STREAM 10 YEAR EXTENTS.
3. WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7

- LEGEND**
-  EX STORMWATER
 -  PR STORMWATER ROAD
 -  PR STORMWATER ROOF
 -  PR EXTENT WORK
 -  EX/PR SWMH (ROAD/ROOF)
 -  PR SINGLE/DOUBLE SWCP
 -  RIPARIAN YARD 20m SETBACK
 -  WETLAND AREA 100m SETBACK
 -  WETLAND AREA 10m SETBACK
 -  EX STREAMS
 -  PR RET. WALL > 1.0m
 -  PR SW RAINGARDEN
 -  WETLAND

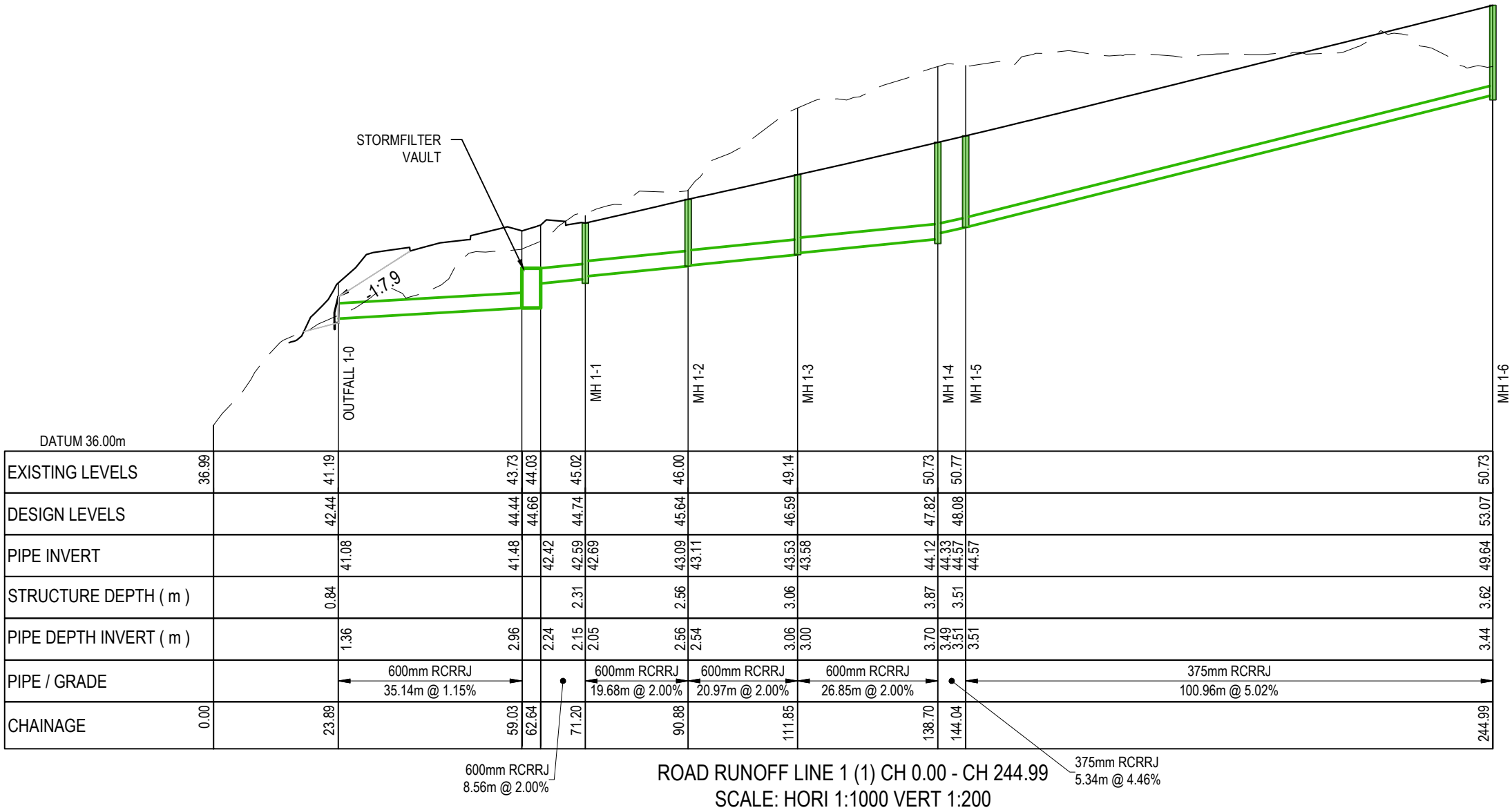


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Title
**RETIREMENT VILLAGE
PROPOSED STORMWATER
EXTENSION PLAN**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C401 SW EXTENSION.DWG		
Drawing no.	C401-6	Rev	A

DATE: 4/20/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

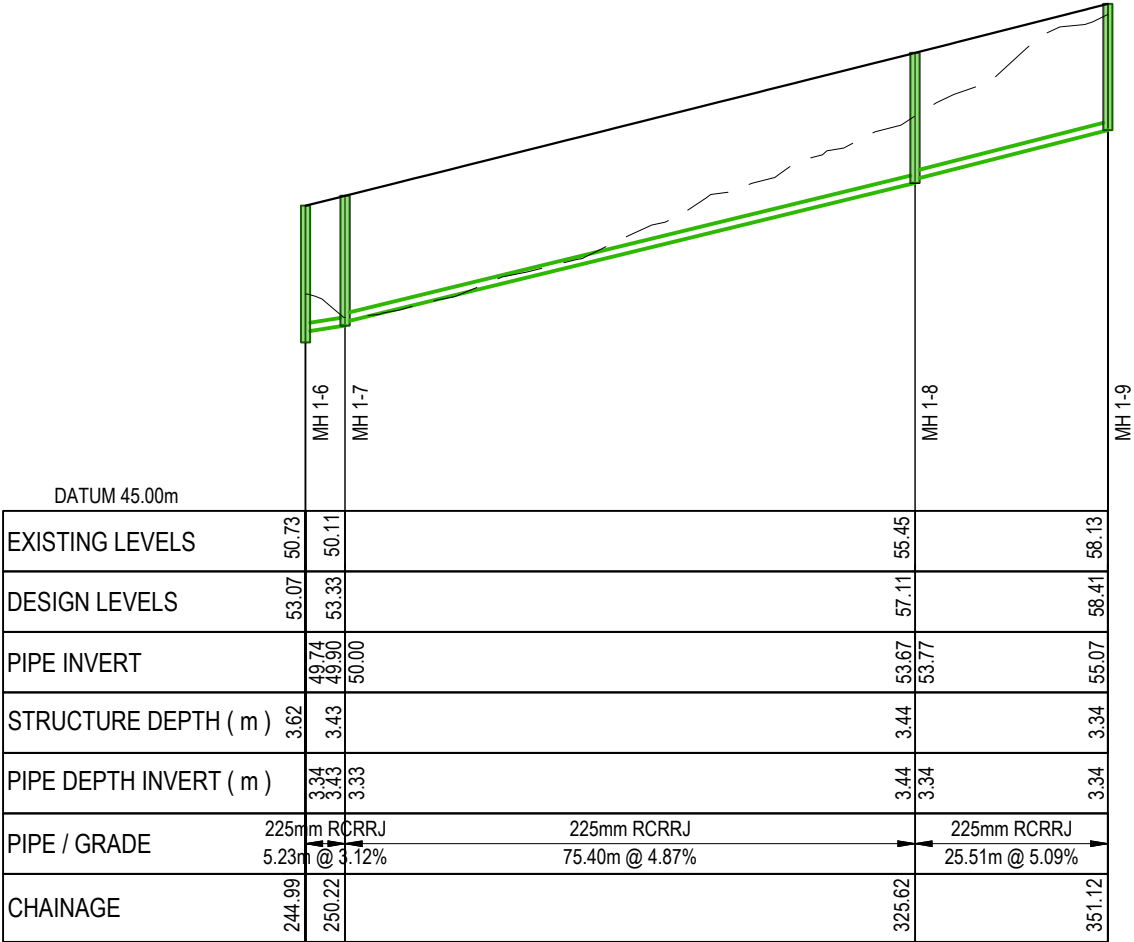
Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420
Rev	A

RESOURCE CONSENT

DATE: 4/3/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 1 (2) CH 244.99 - CH 351.12
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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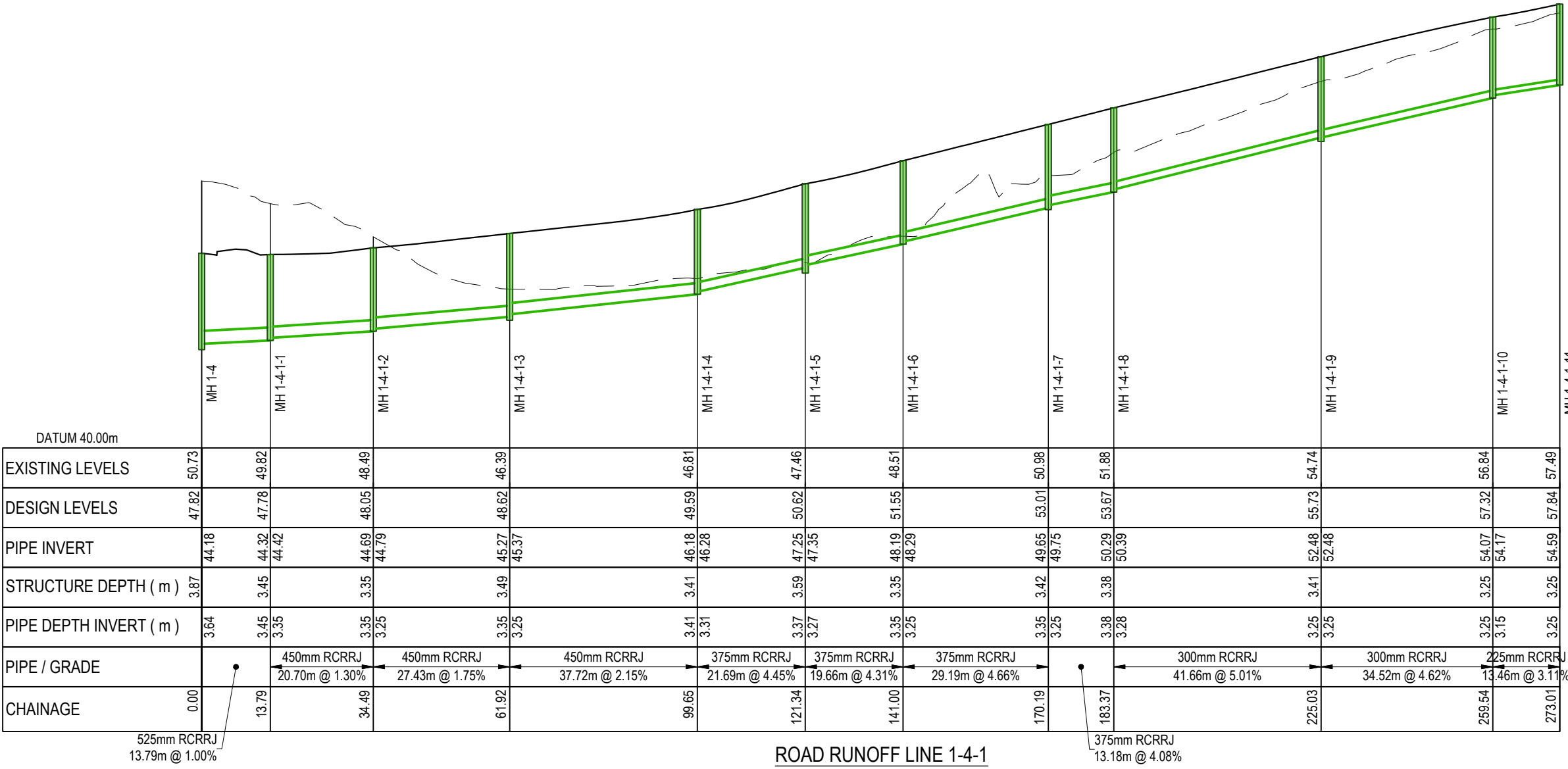
Auckland 1023

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROAD RUN OFF

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-1	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\420-SW-LS-ROAD.DWG



RESOURCE CONSENT

A		RESOURCE CONSENT		AYC	03/2025
Rev	Description	By	Date		
		By	Date		
Survey	LIDAR		03/2022		
Design	AYC		03/2025		
Drawn	AYC		03/2025		
Checked	RW		03/2025		



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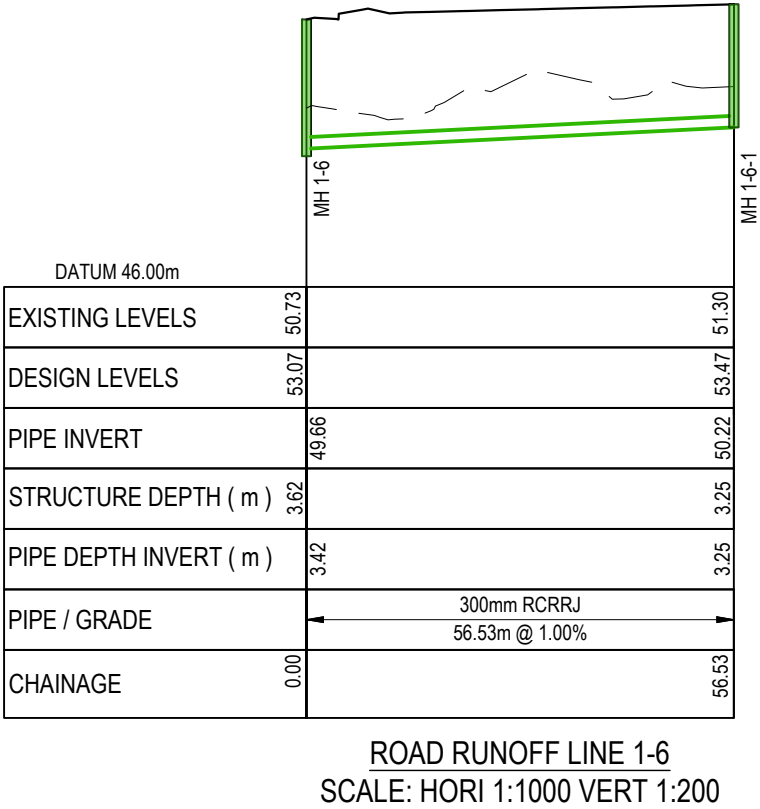
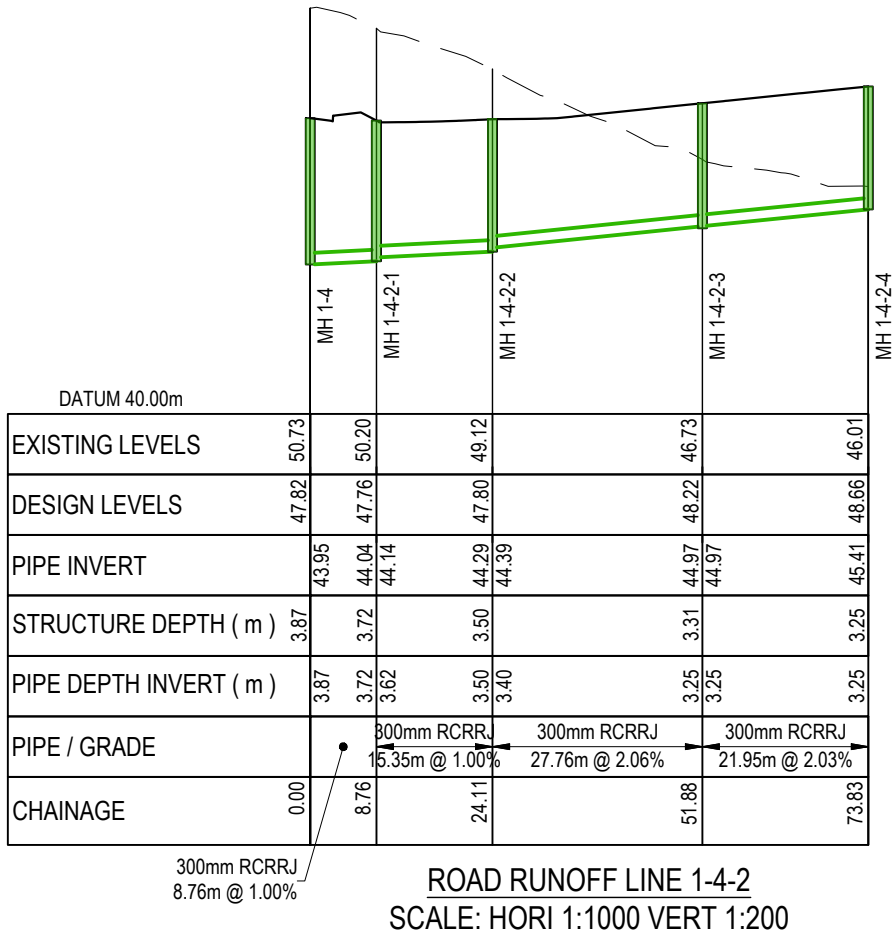
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS ROAD.DWG		
Drawing no.	C420-2	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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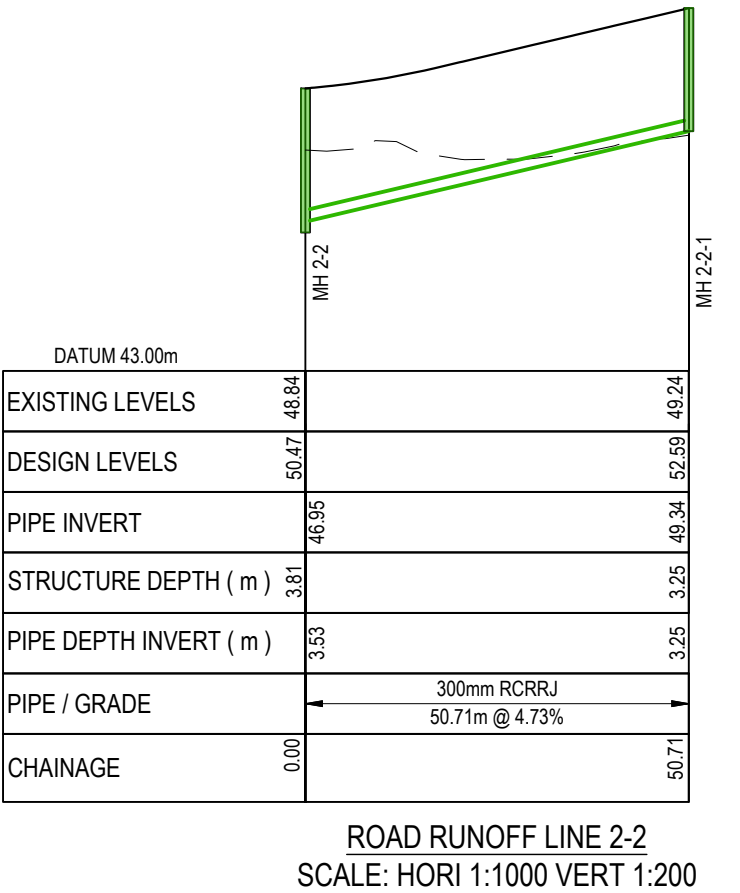
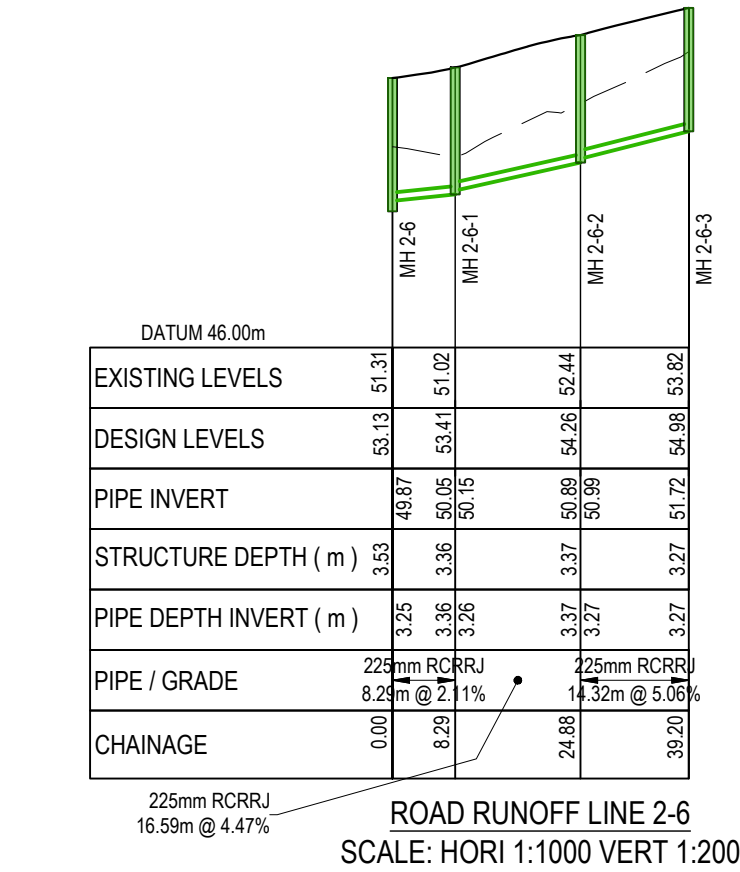
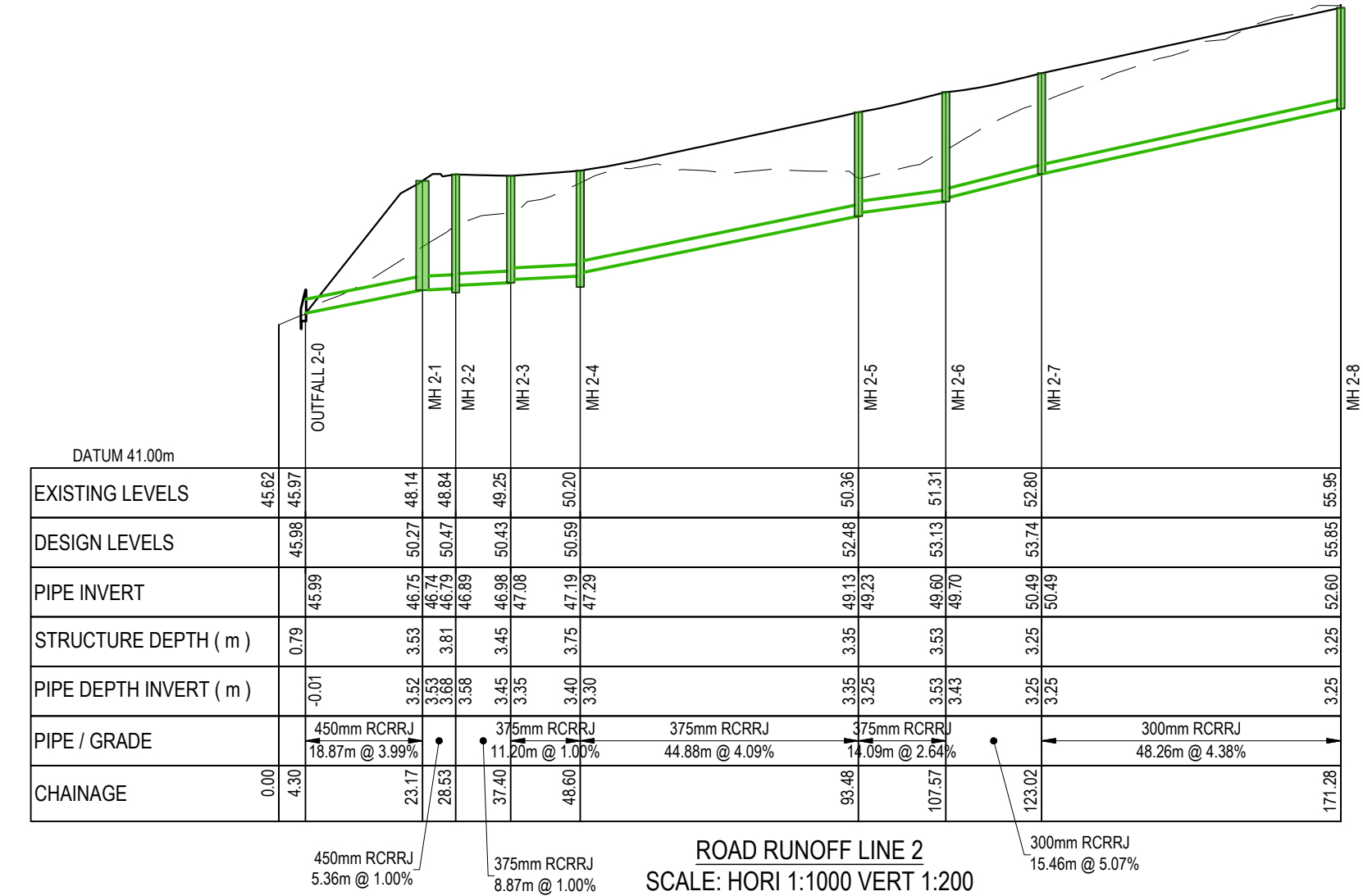
Auckland 1023

Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-3	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\420\16-RV-C420_S\1.S. ROAD.DWG



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

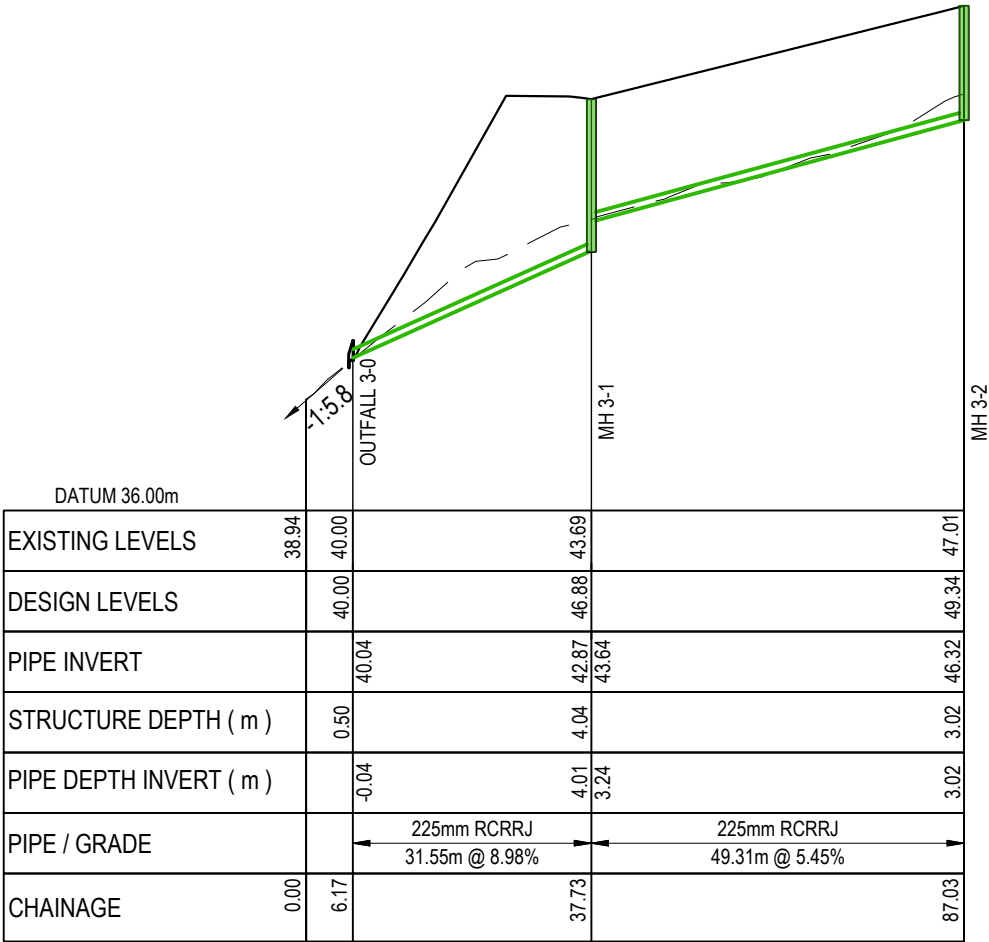
Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420-4
Rev	A

RESOURCE CONSENT

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 3
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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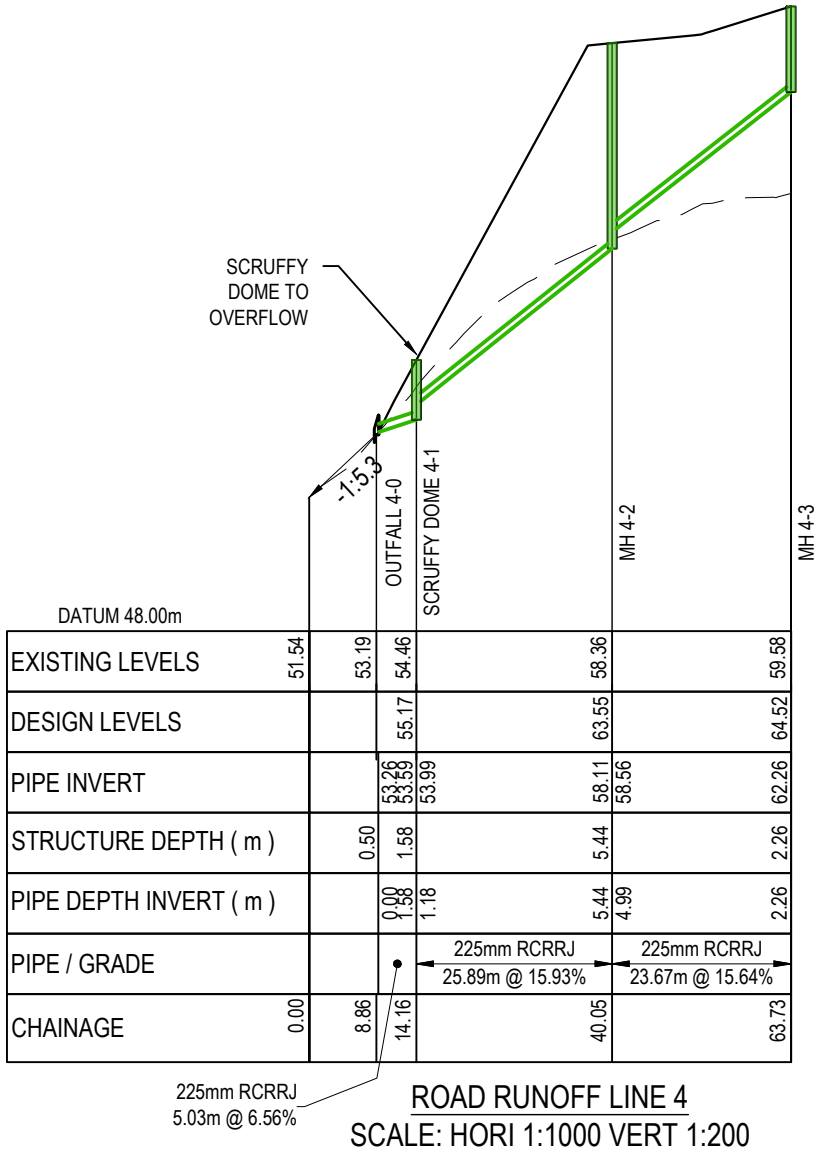
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-5	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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Project

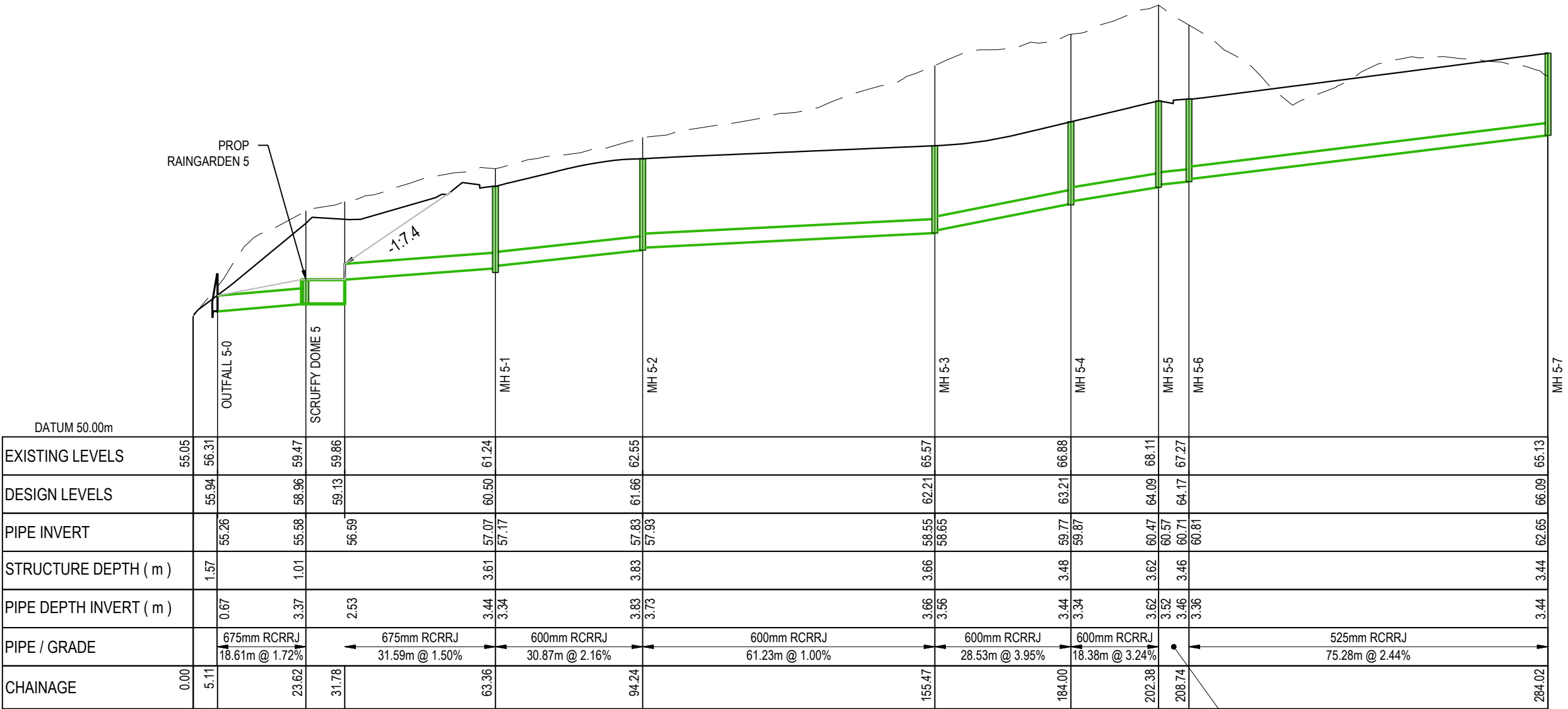
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title

**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-6	Rev	A

DATE: 4/3/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\42016-RV-C420 SW LS ROAD.DWG



ROAD RUNOFF LINE 5 (1) CH 0.00 - CH 284.02
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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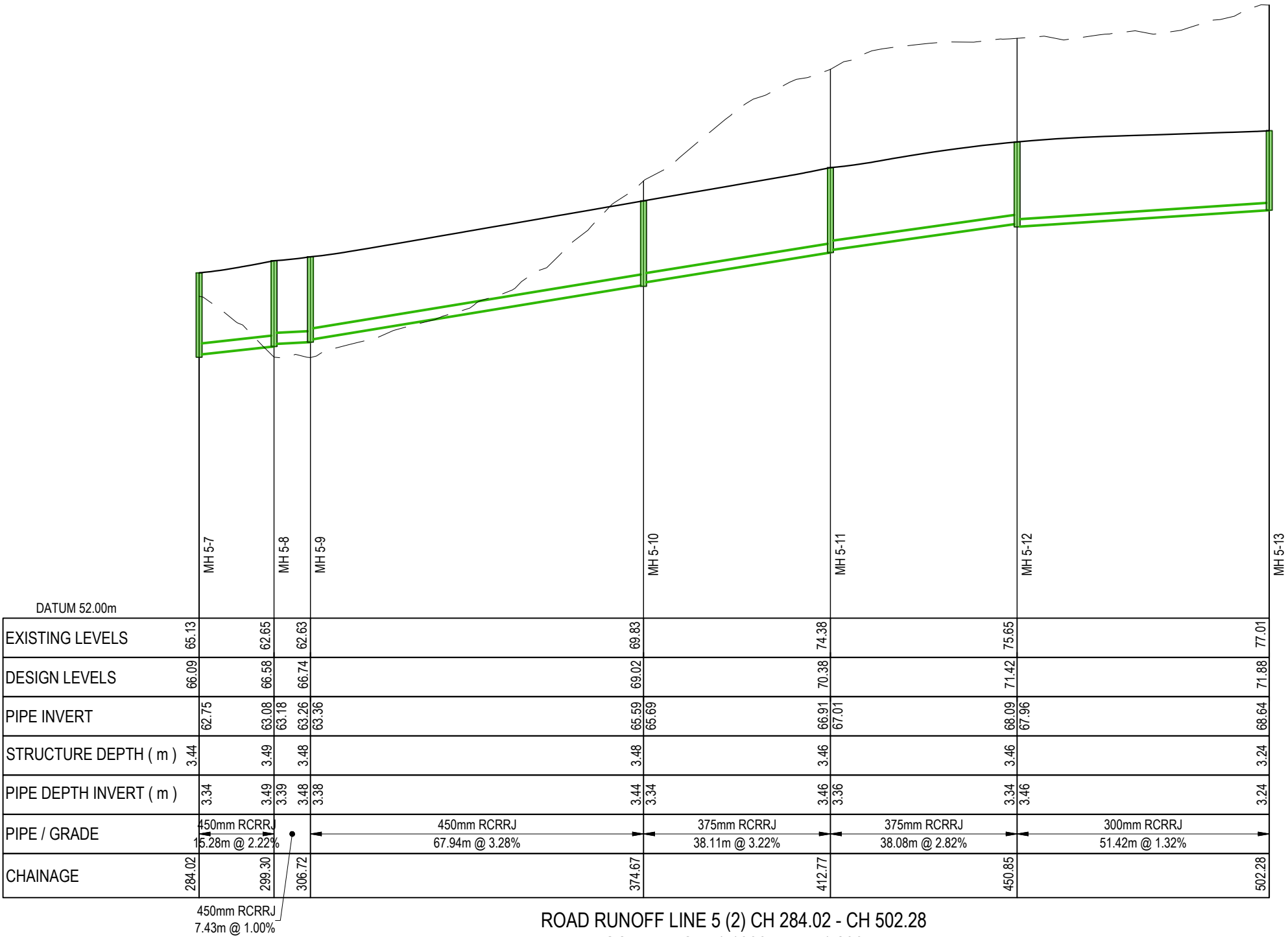
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROAD RUN OFF

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420-7
Rev	A

RESOURCE CONSENT

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG



LEGEND:
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--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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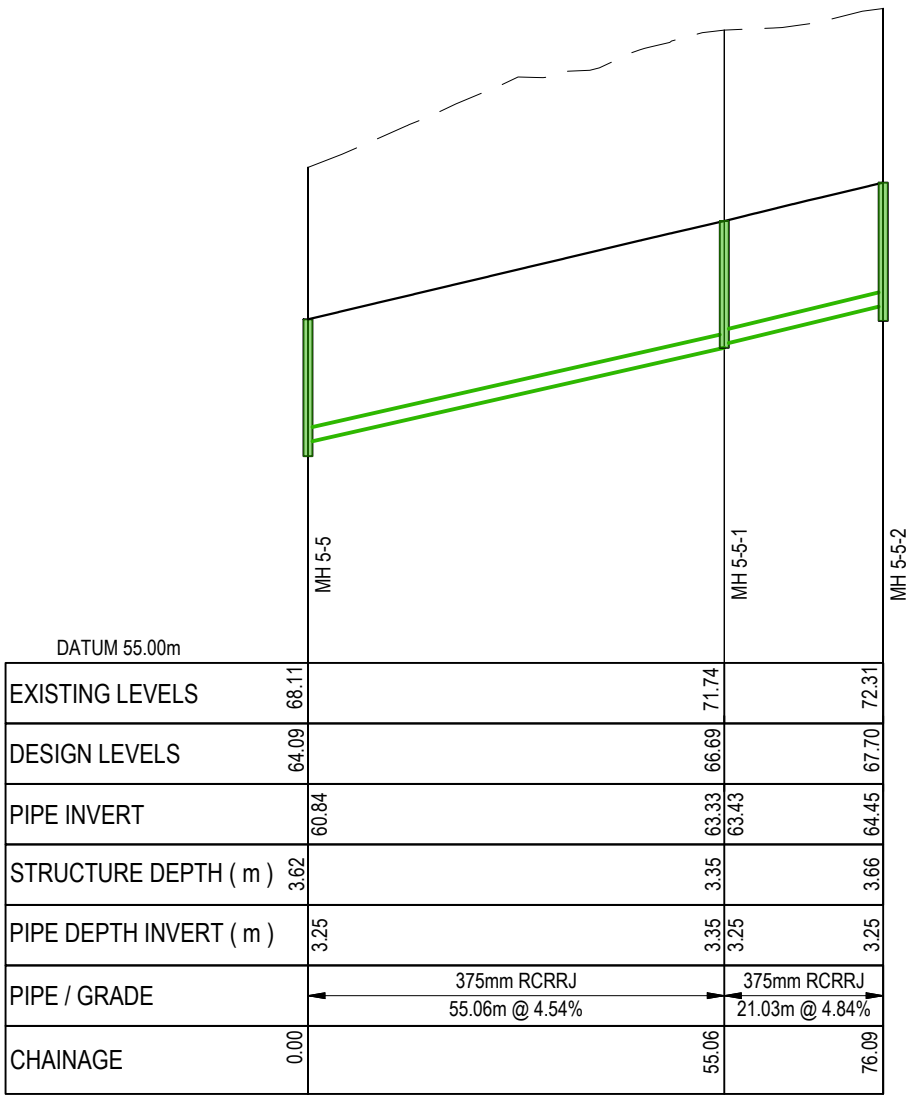
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

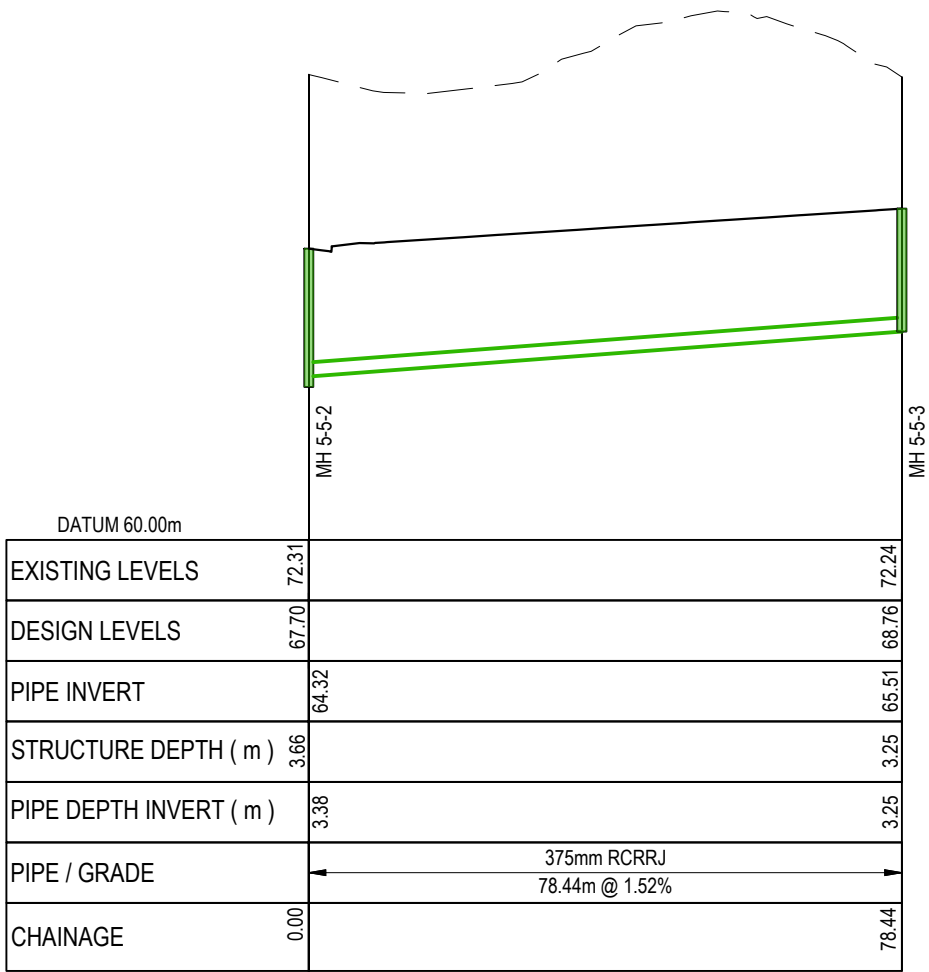
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-8	Rev	A

RESOURCE CONSENT

DATE: 4/20/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420-SW-LS-ROAD.DWG



ROAD RUNOFF LINE 5-5
SCALE: HORI 1:1000 VERT 1:200



ROAD RUNOFF LINE 5-5-2
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

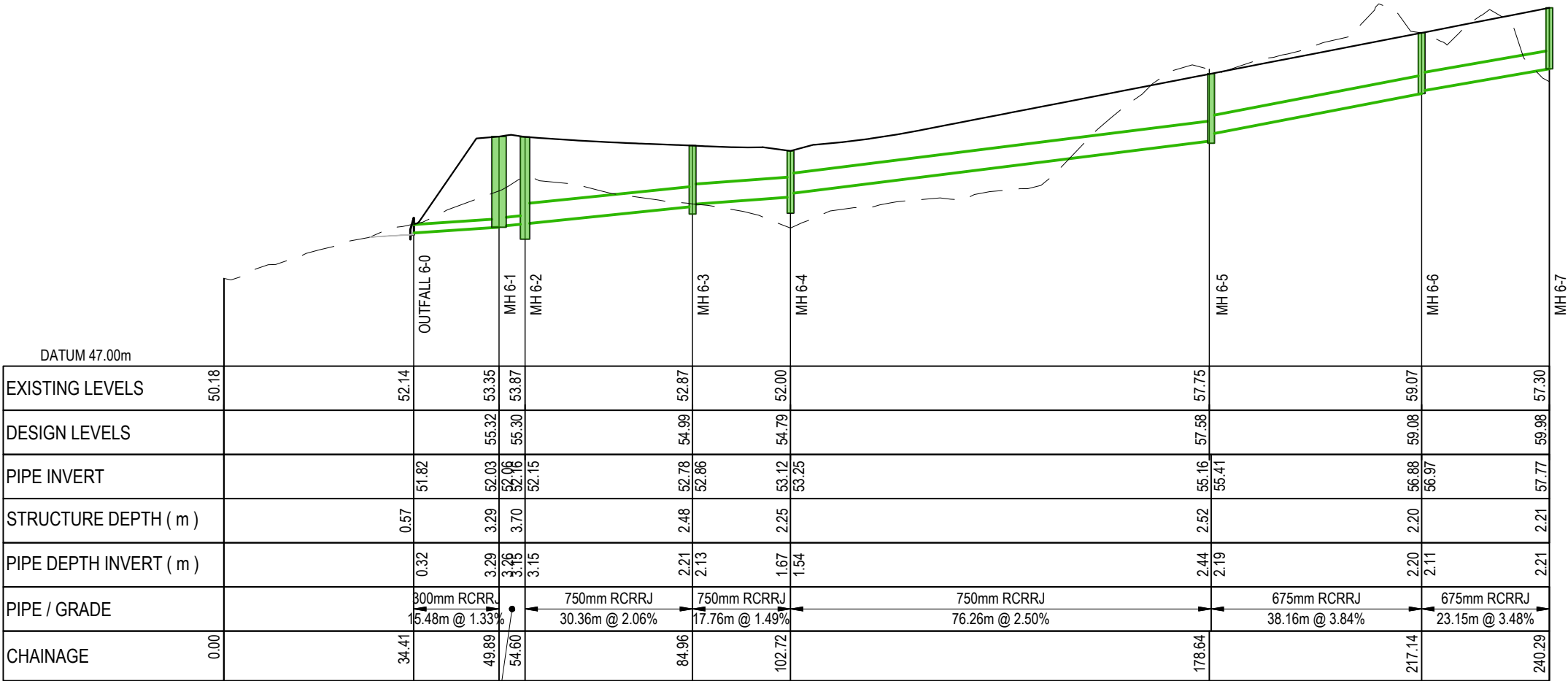
Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-9	Rev	A

RESOURCE CONSENT

DATE: 4/3/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 6 (1) CH 0.00 - CH 240.29
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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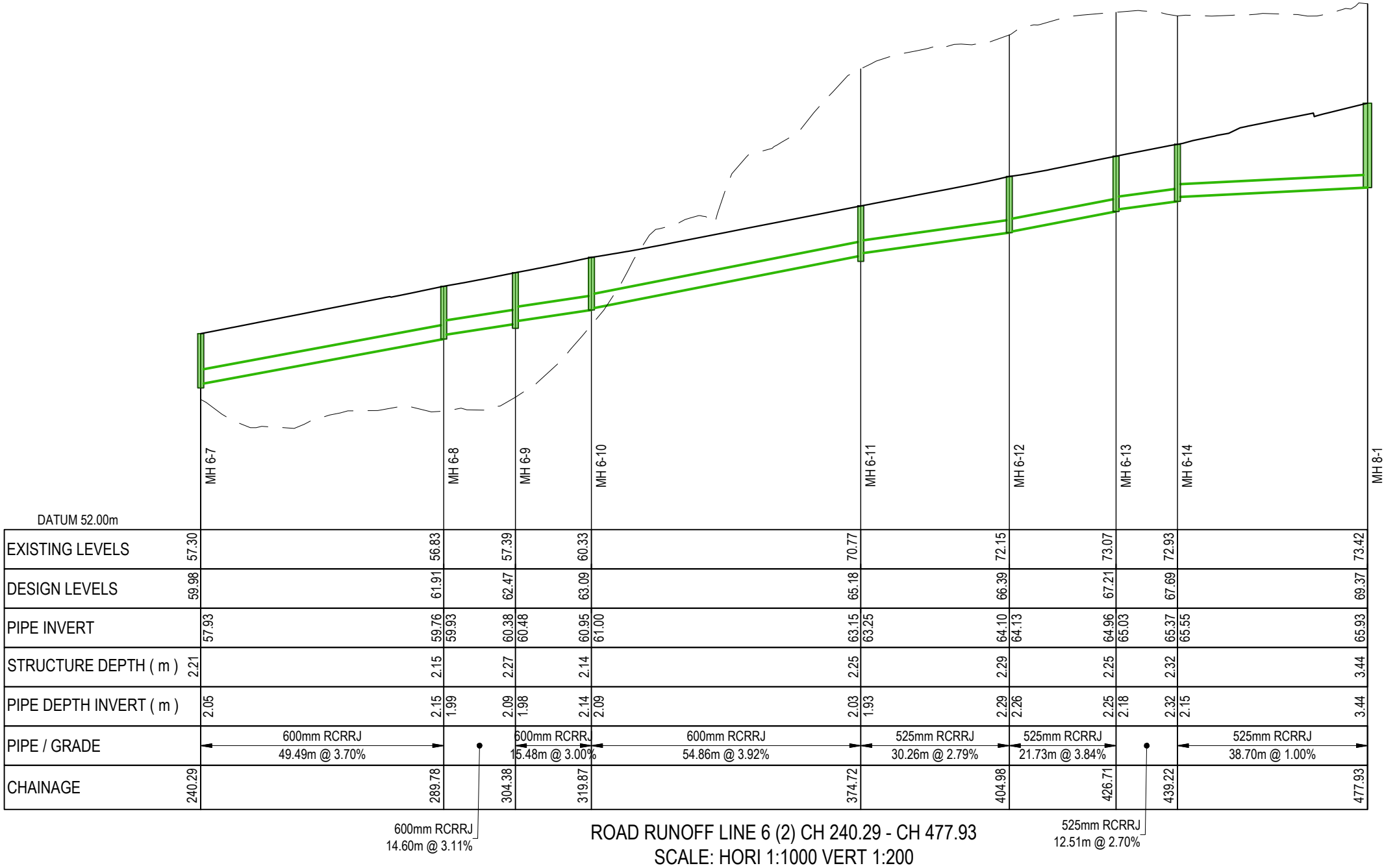
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROAD RUN OFF

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS ROAD.DWG		
Drawing no.	C420-10	Rev	A

DATE: 4/3/2025 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420-SW-LS-ROAD.DWG

RESOURCE CONSENT



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



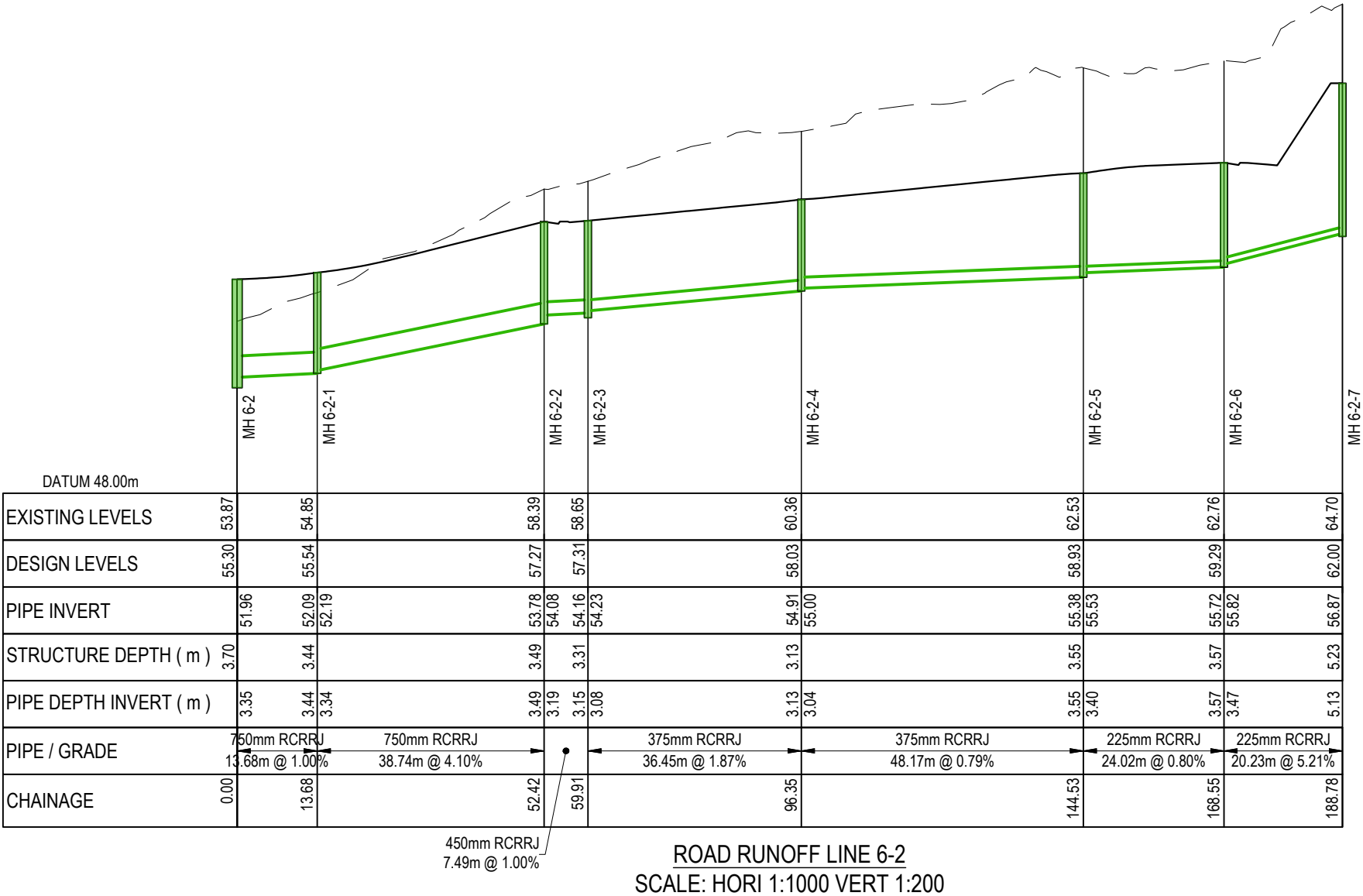
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-11	Rev	A

DATE: 4/3/2025 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



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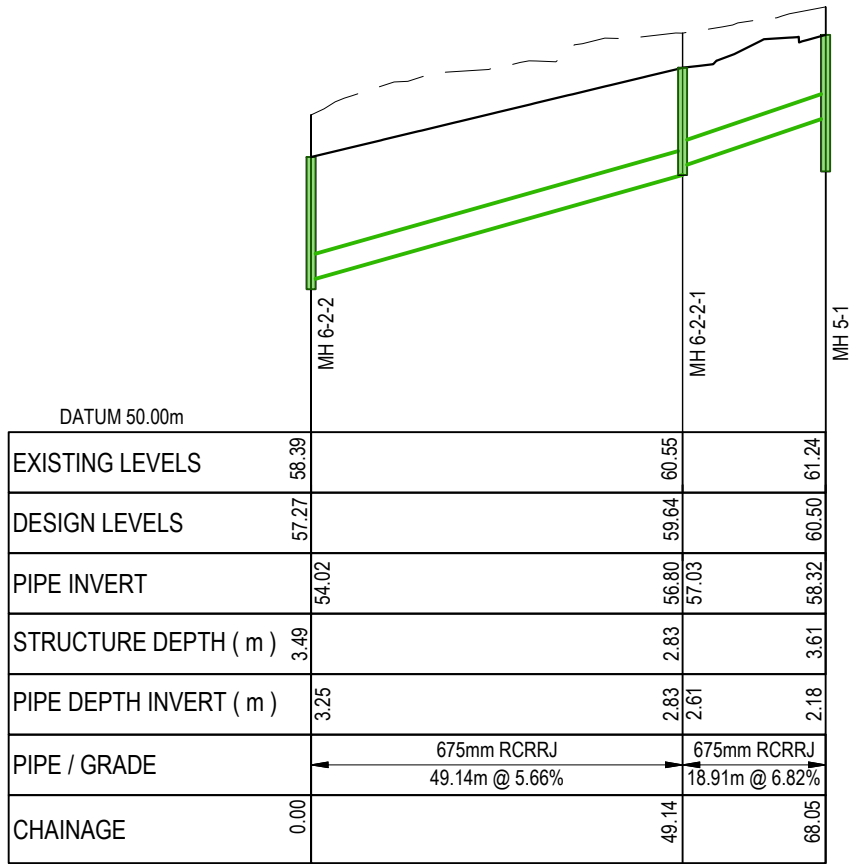
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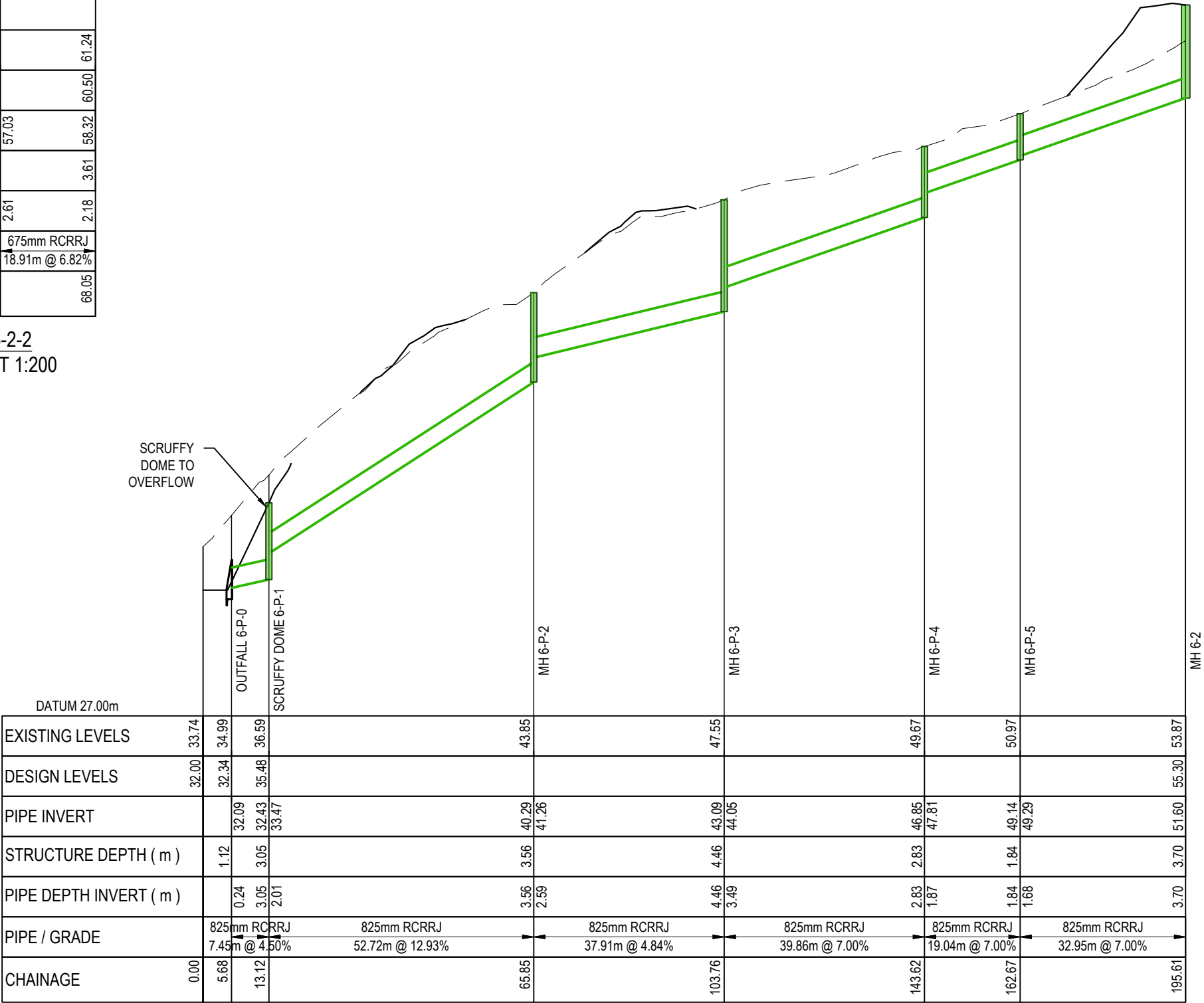
Project			
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP			
Title			
RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROAD RUN OFF			
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS ROAD.DWG		
Drawing no.	C420-12	Rev	A

DATE: 4/20/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 6-2-2
SCALE: HORI 1:1000 VERT 1:200



ROAD RUNOFF LINE 6-POND
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



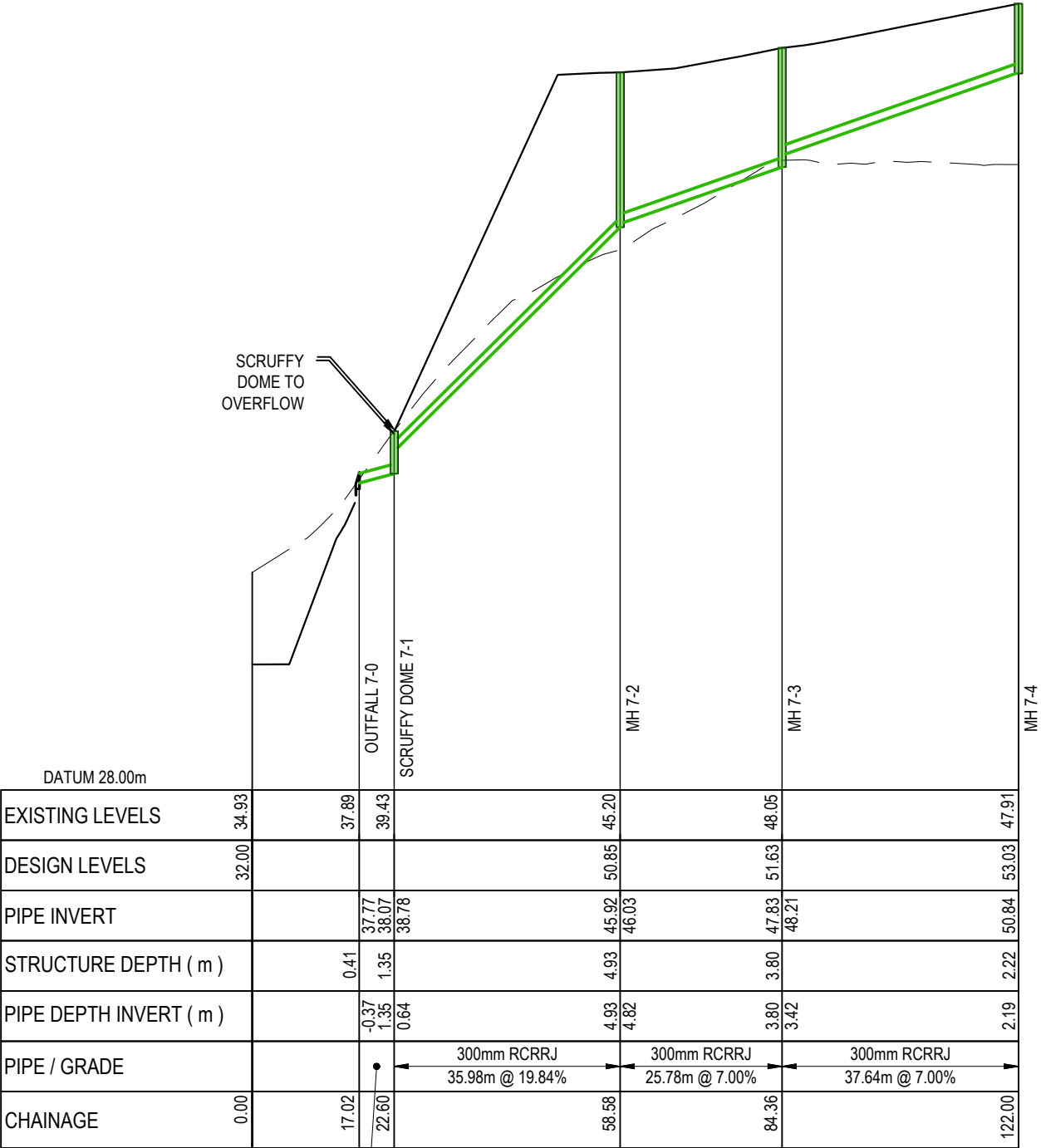
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Auckland 1023

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROAD RUN OFF

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420-13
Rev	A

DATE: 4/30/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title

**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-14	Rev	A

RESOURCE CONSENT

DATE: 4/30/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420-SW-LS-ROAD.DWG

PROP
RAINGARDEN 8

-1.78

OUTFALL 8-0

SCRUFFY DOME 8

MH 8-1

MH 8-2

MH 8-3

MH 8-4

MH 8-5

DATUM 58.00m

EXISTING LEVELS	63.23	63.39	69.26	70.21		73.42		76.65		78.24		78.36		76.56
DESIGN LEVELS		63.26	67.46	67.64		69.37		71.39		72.33		73.10		74.28
PIPE INVERT		63.09	63.49	64.71		65.93		67.79		68.98		69.81		70.93
STRUCTURE DEPTH (m)		0.86	1.22			3.44		3.60		3.35		3.64		3.35
PIPE DEPTH INVERT (m)		0.17	3.97	2.93		3.44		3.60		3.35		3.30		3.35
PIPE / GRADE		525mm RCRRJ 19.74m @ 2.06%	525mm RCRRJ 60.97m @ 2.00%			525mm RCRRJ 56.98m @ 3.08%	525mm RCRRJ 38.37m @ 2.85%	525mm RCRRJ 31.75m @ 2.28%	450mm RCRRJ 49.37m @ 2.28%					
CHAINAGE	0.00	17.82	37.56	41.82		102.79		159.76		198.13		229.90		279.25

ROAD RUNOFF LINE 8 (1) CH 0.00 - CH 279.25
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED
GROUND LEVELS FOR
SW DEVICE AND OUTLET
IMPLEMENTATION. TO
BE CONFIRMED IN
DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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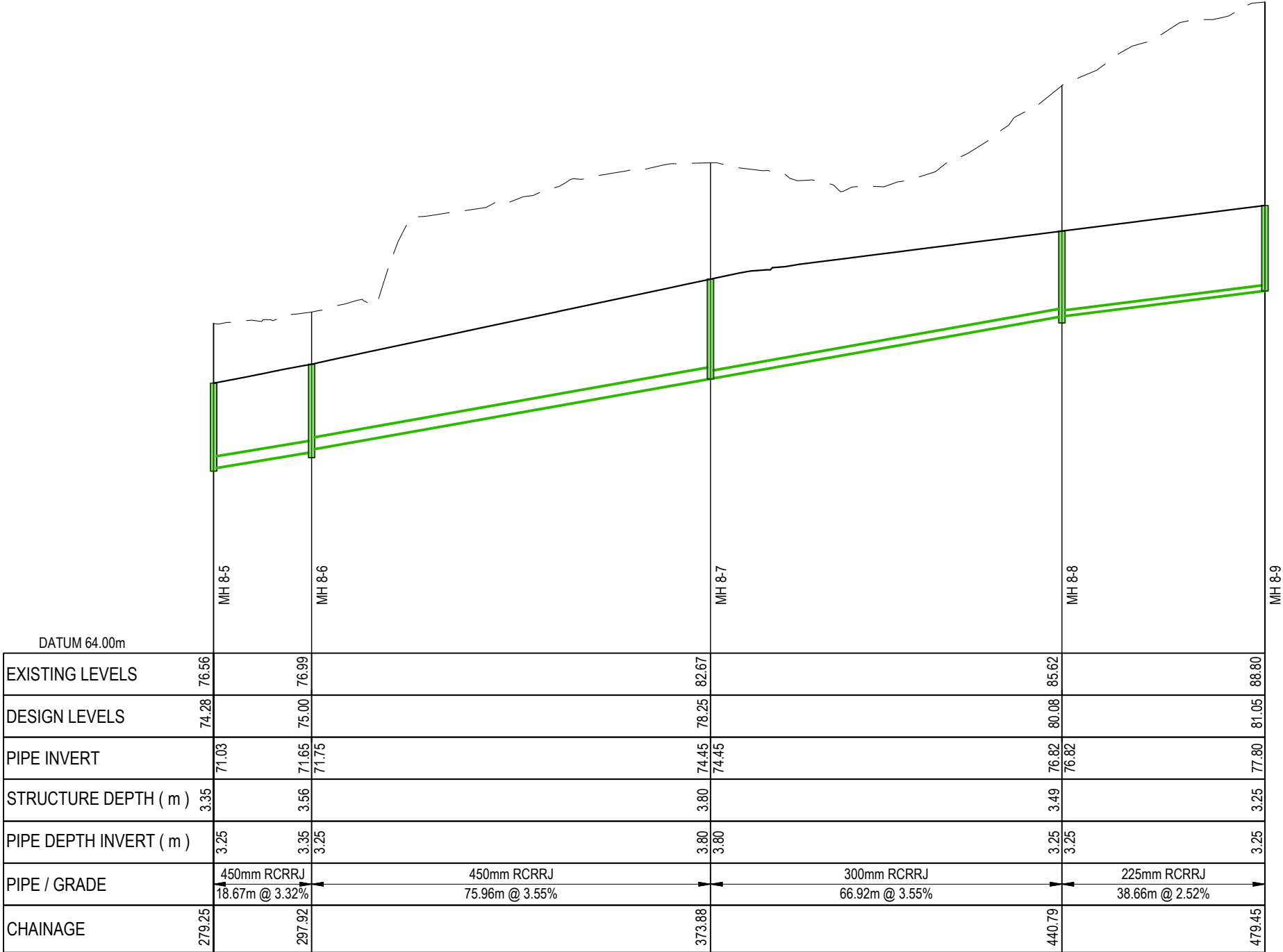
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-15	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 8 (2) CH 279.25 - CH 479.45
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED
GROUND LEVELS FOR
SW DEVICE AND OUTLET
IMPLEMENTATION. TO
BE CONFIRMED IN
DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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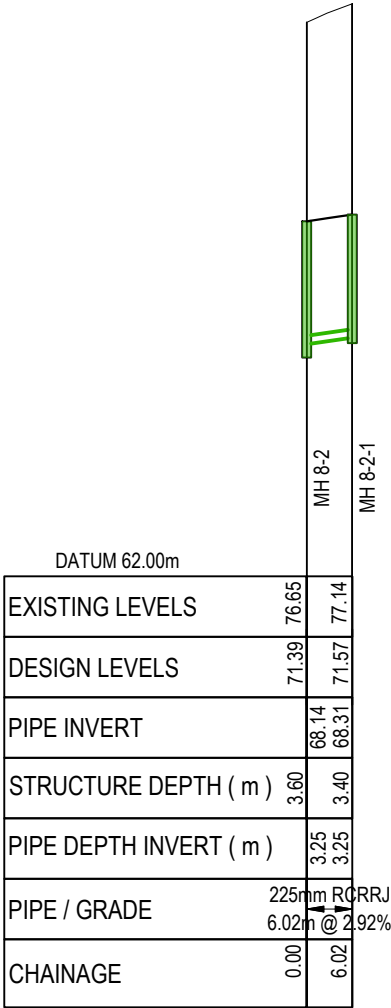
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-16	Rev	A

DATE: 4/3/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 8-2
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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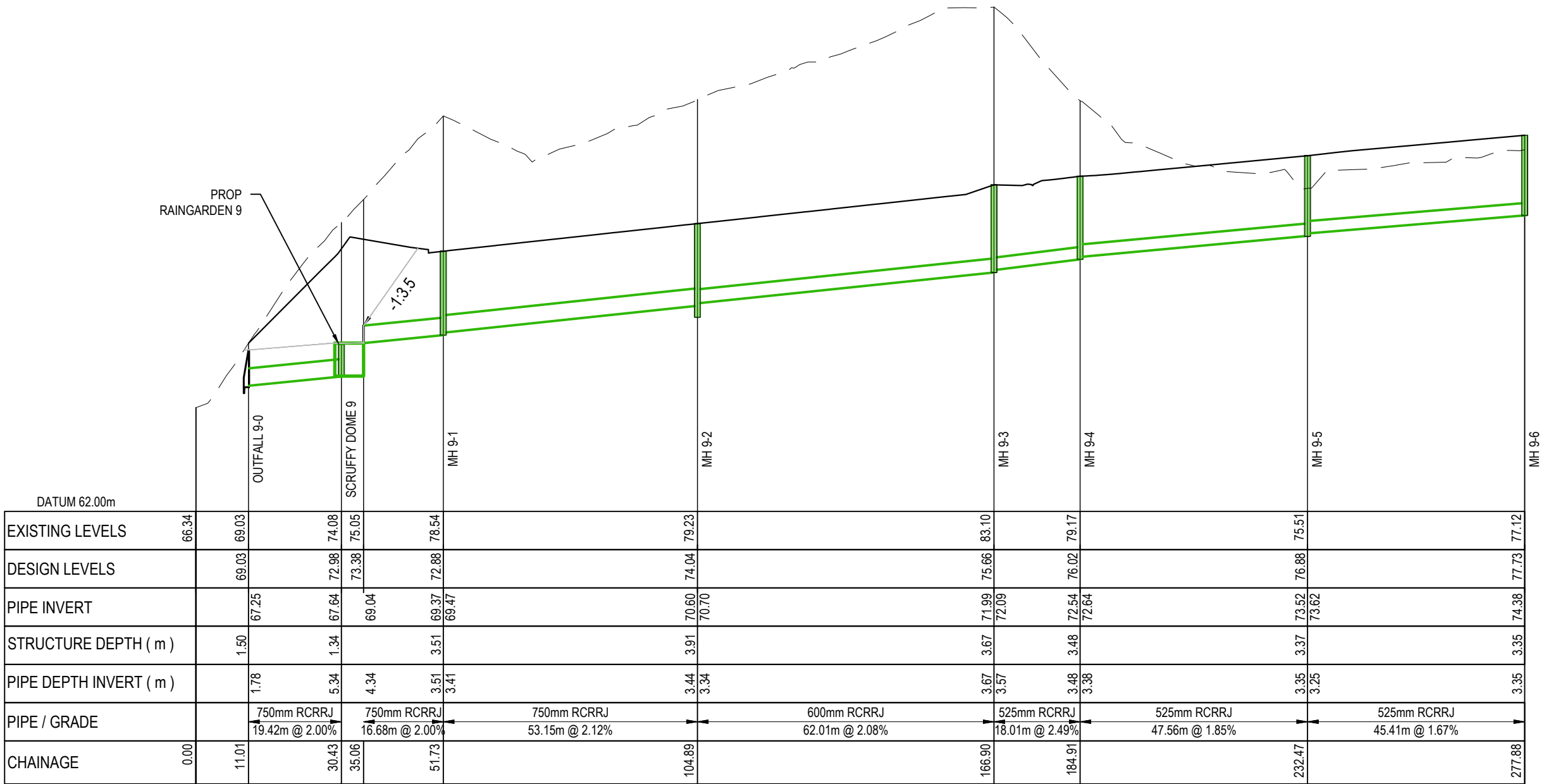
Auckland 1023

Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-17	Rev	A

DATE: 4/30/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\42016-RV-C420 SW LS ROAD.DWG



ROAD RUNOFF LINE 9 (1) CH 0.00 - CH 277.88
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE
— INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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Project
**DEVELOPMENT OF
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DEVELOPMENTS LIMITED
PARTNERSHIP**

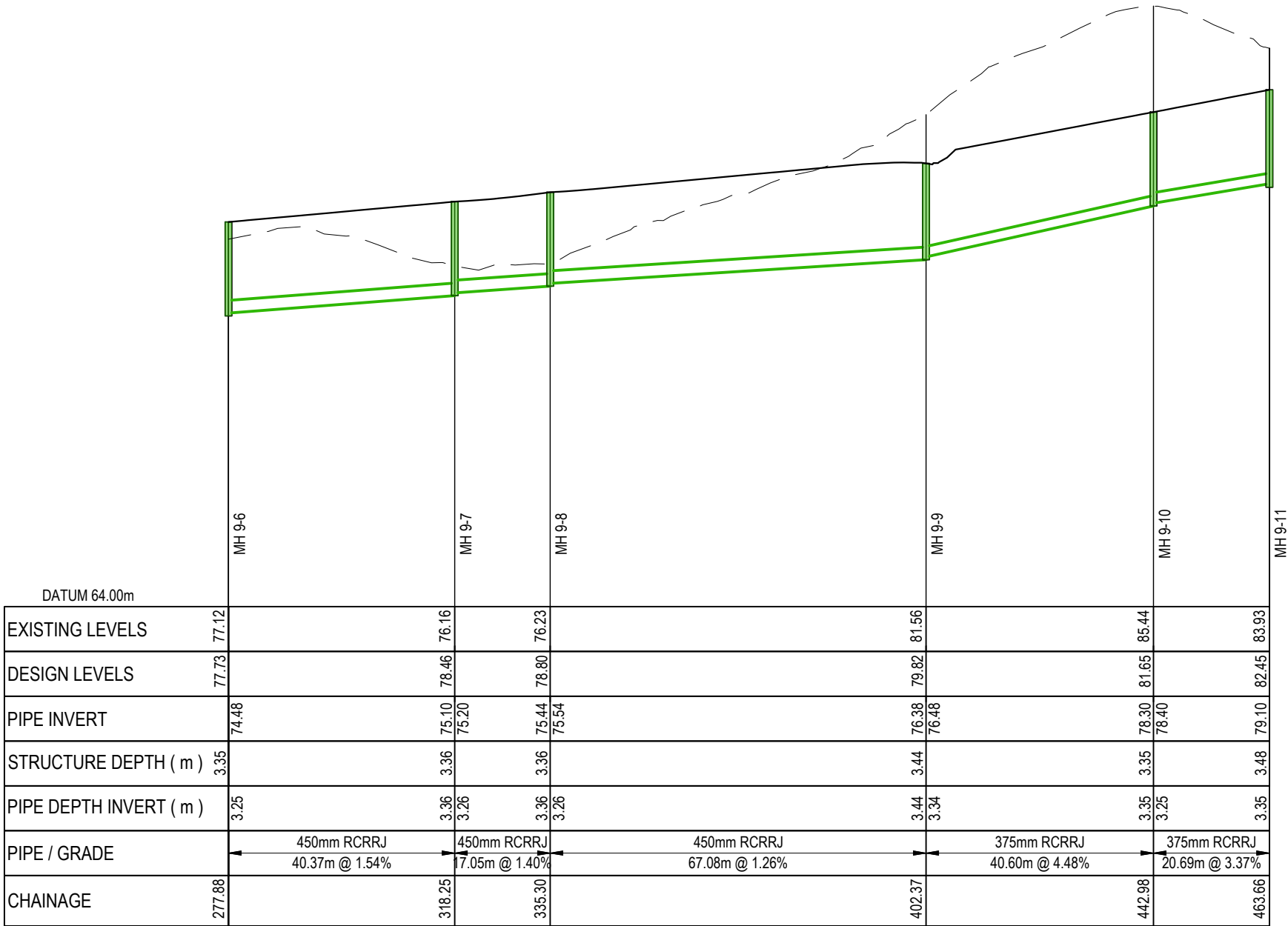
Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420-18
Rev	A

RESOURCE CONSENT

DATE: 4/3/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420-SW-LS-ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 9 (2) CH 277.88 - CH 463.66
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



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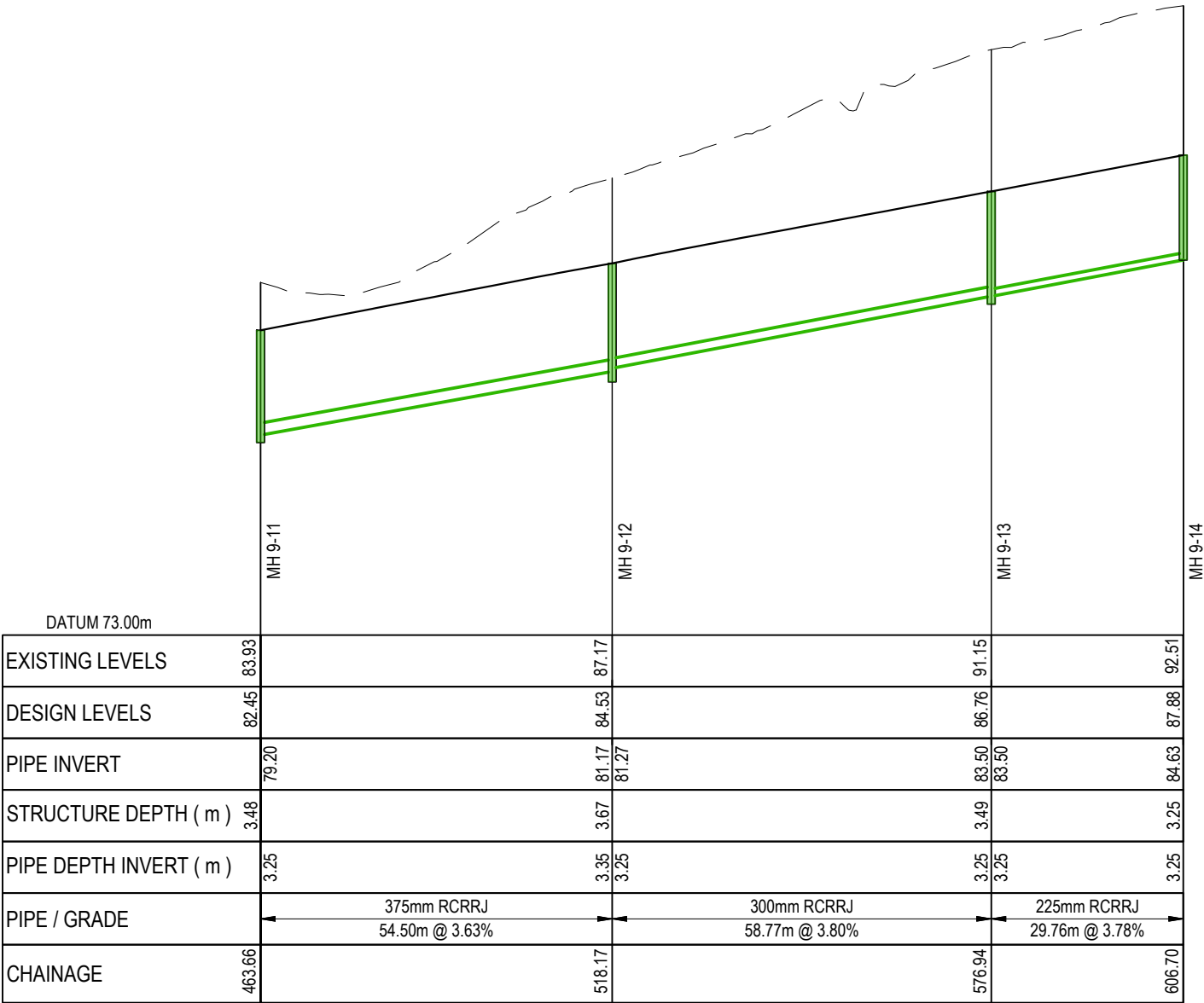
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROAD RUN OFF

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-19	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 9 (3) CH 463.66 - CH 606.70
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
—— PR DESIGN SURFACE
—— INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



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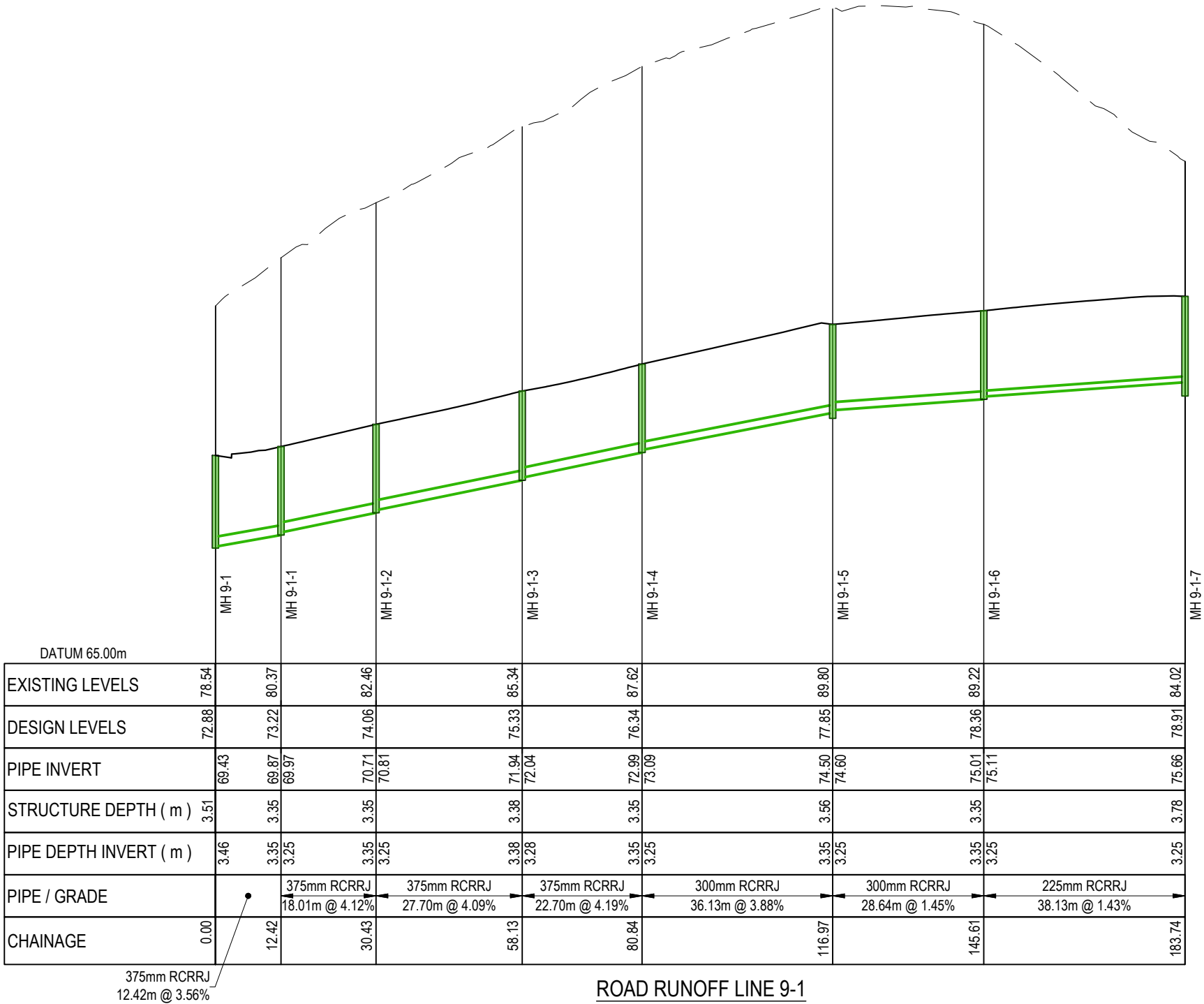
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS ROAD.DWG		
Drawing no.	C420-20	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 9-1
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED
GROUND LEVELS FOR
SW DEVICE AND OUTLET
IMPLEMENTATION. TO
BE CONFIRMED IN
DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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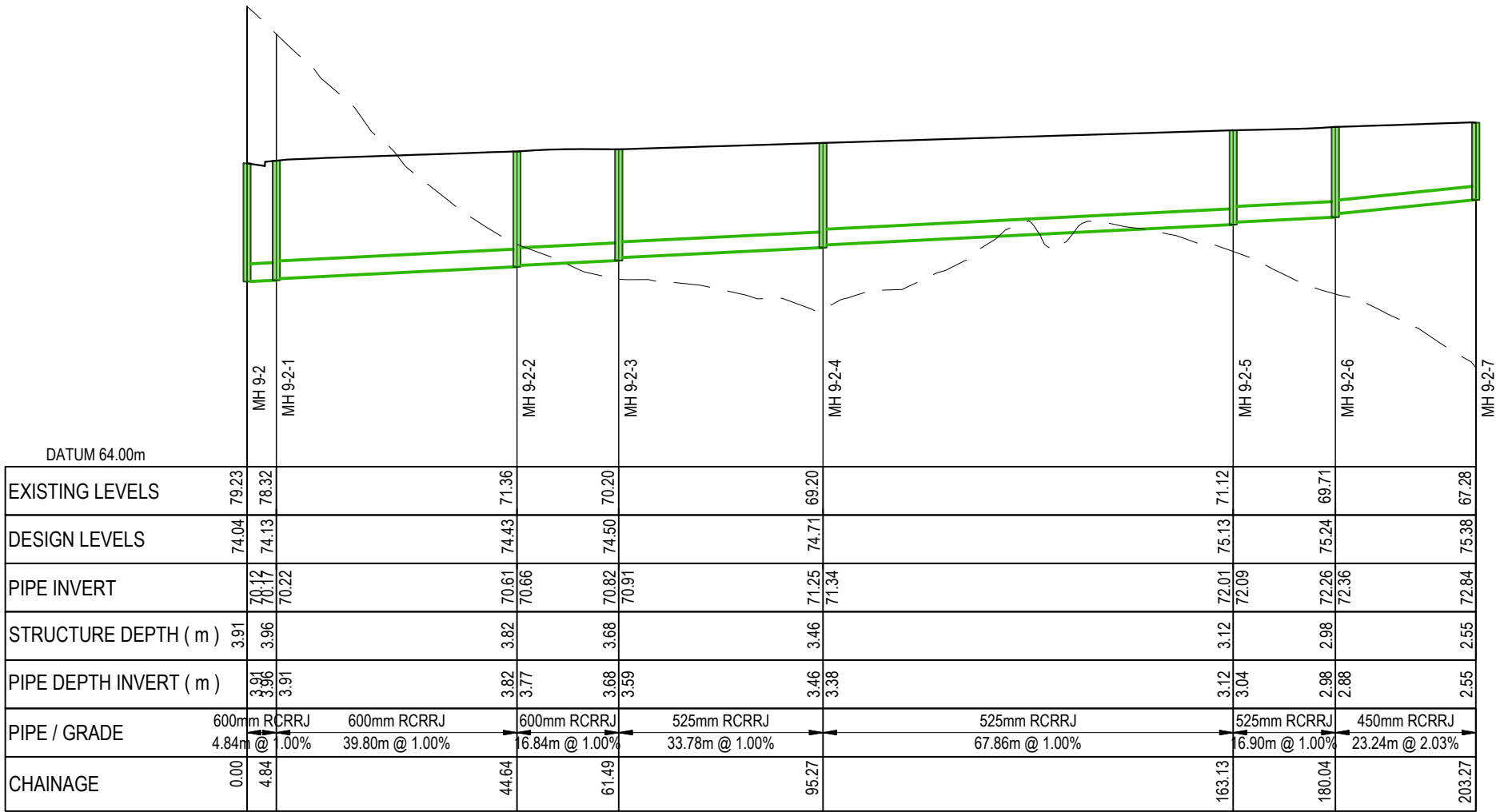
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-21	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 9-2 (1) CH 0.00 - CH 203.27
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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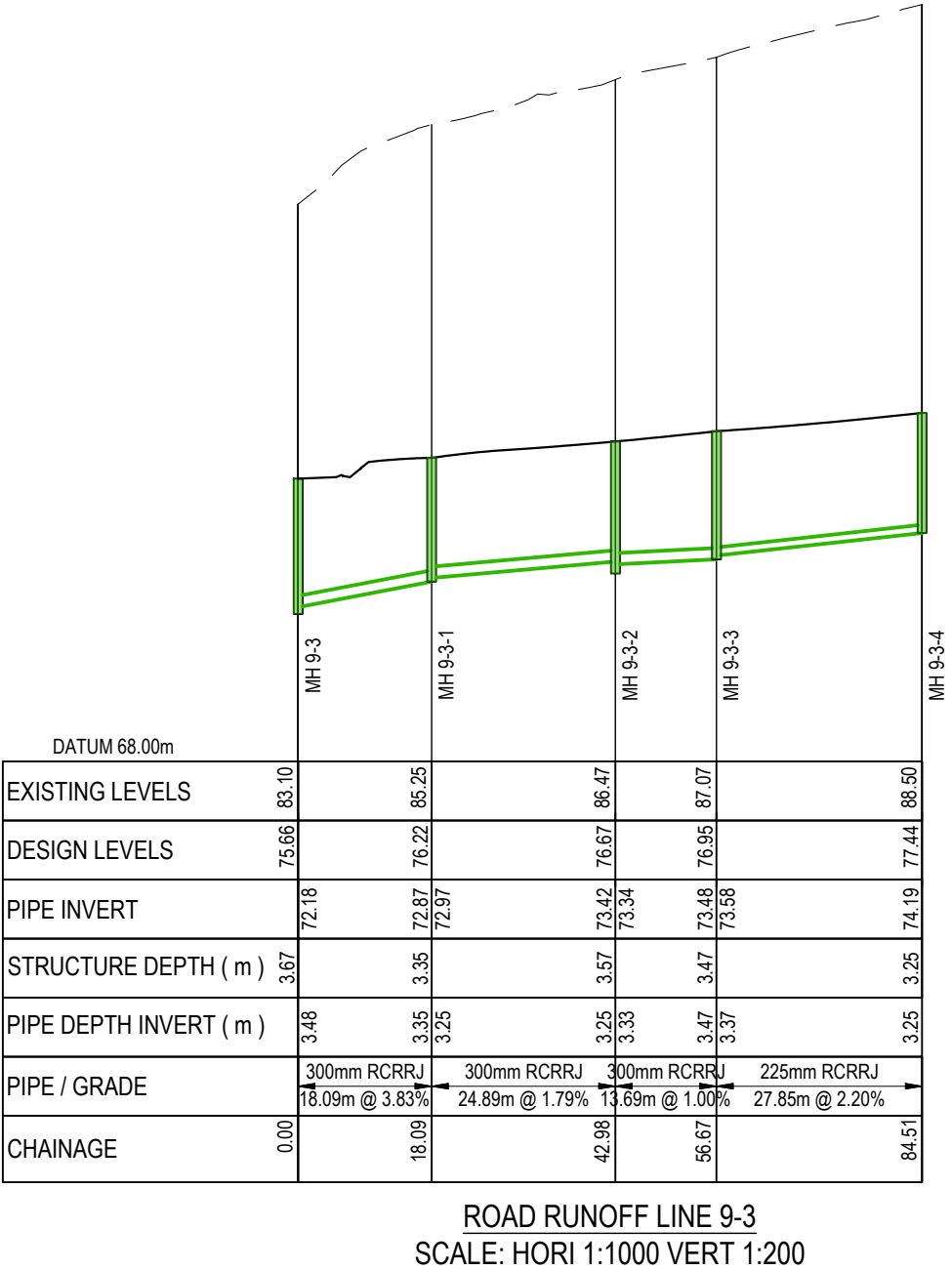
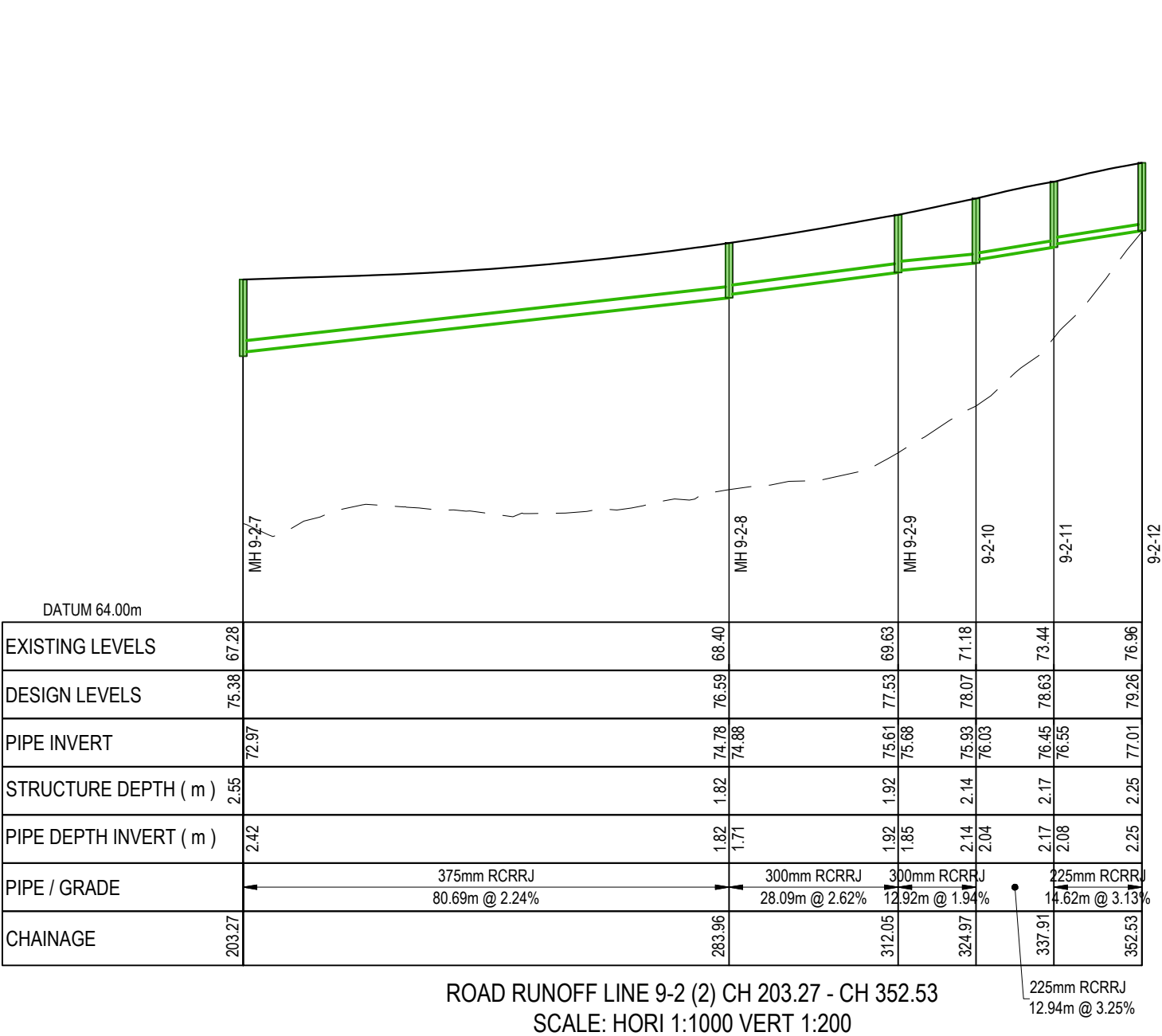
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-22	Rev	A


DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



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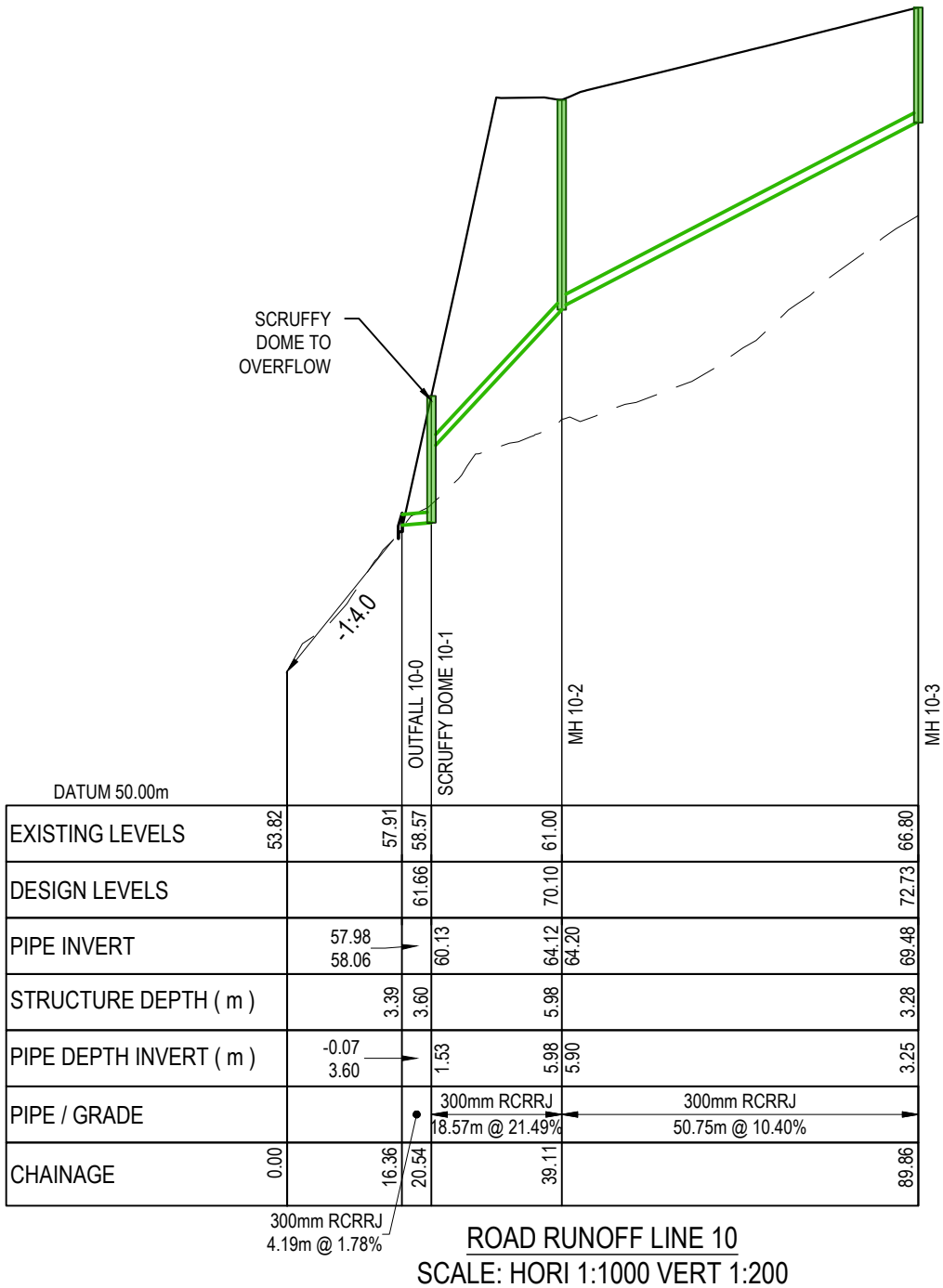
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title

RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROAD RUN OFF

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS ROAD.DWG		
Drawing no.	C420-23	Rev	A

DATE: 4/3/2025 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG



RESOURCE CONSENT

LEGEND:

- EX GROUND SURFACE
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- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



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Project

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PARTNERSHIP**

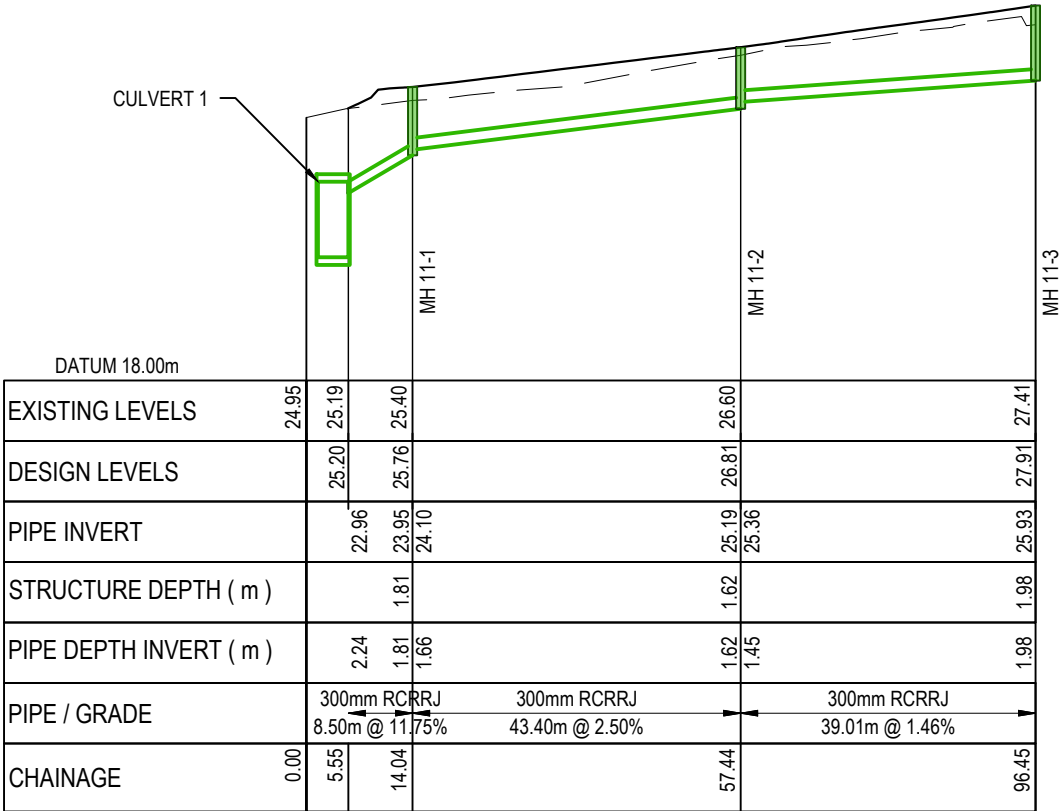
Title

**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

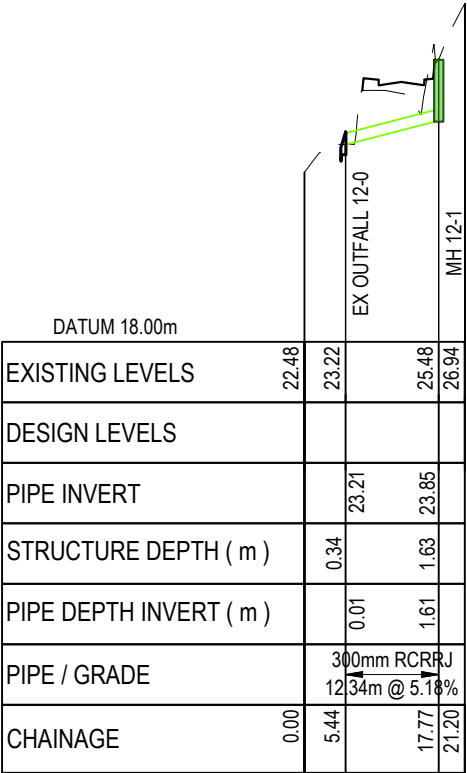
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Cad file	147016-RV-C420 SW LS ROAD.DWG		
Drawing no.	C420-24	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 11
SCALE: HORI 1:1000 VERT 1:200



ROAD RUNOFF LINE 12
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

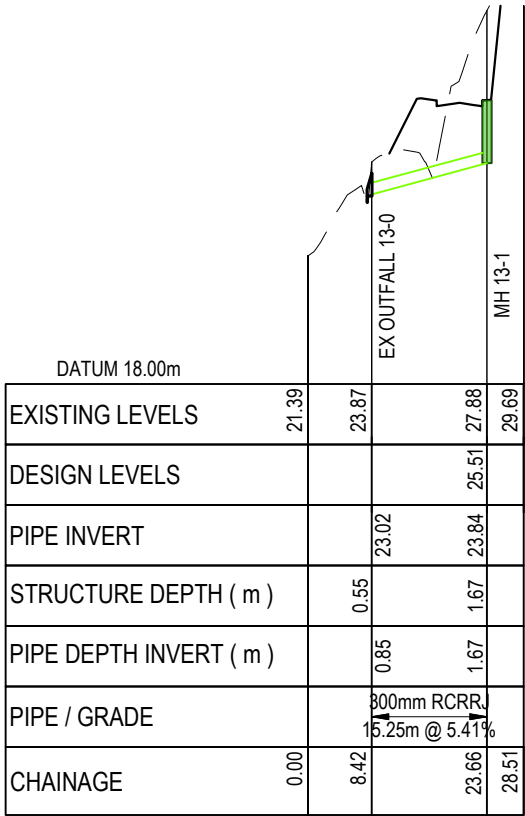


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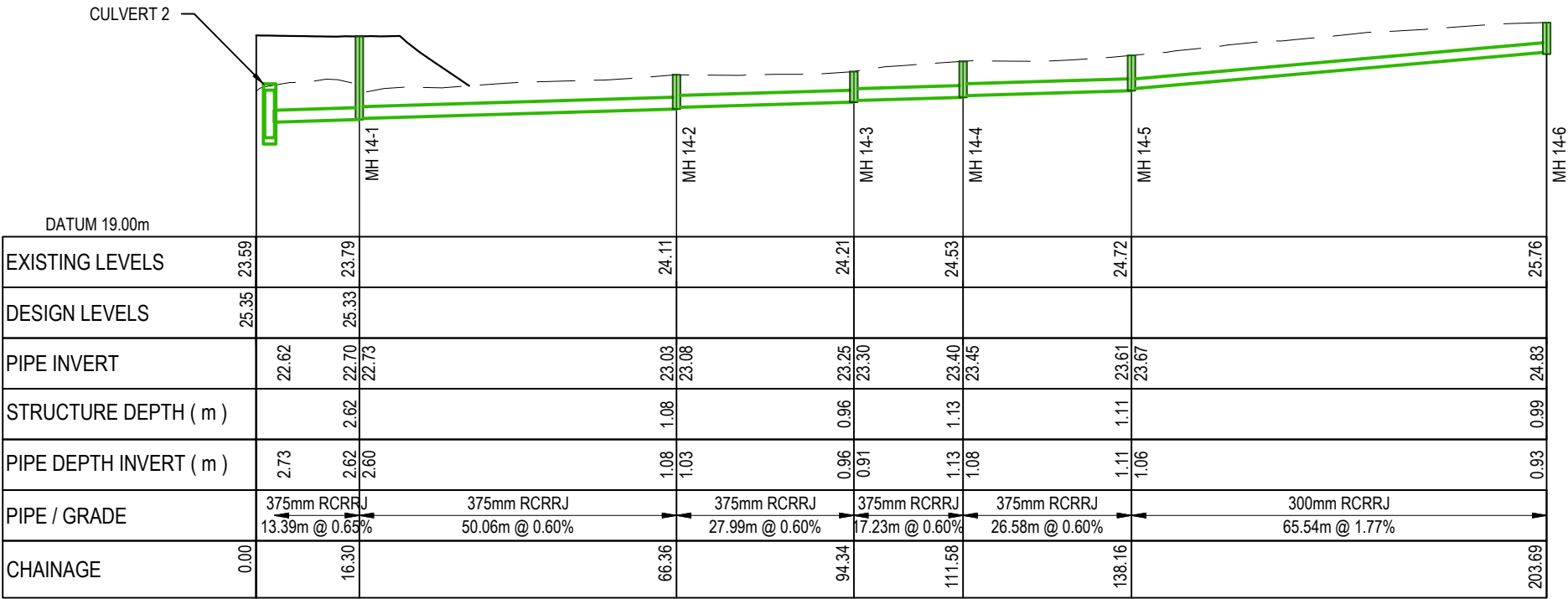
Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS ROAD.DWG		
Drawing no.	C420-25	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG



ROAD RUNOFF LINE 13
SCALE: HORI 1:1000 VERT 1:200



ROAD RUNOFF LINE 14
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED
GROUND LEVELS FOR
SW DEVICE AND OUTLET
IMPLEMENTATION. TO
BE CONFIRMED IN
DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
		By	Date
Survey	LIDAR		03/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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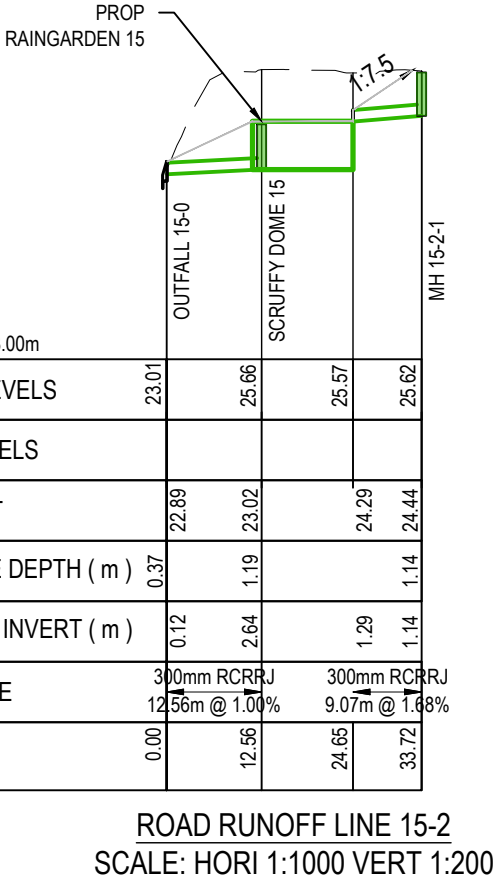
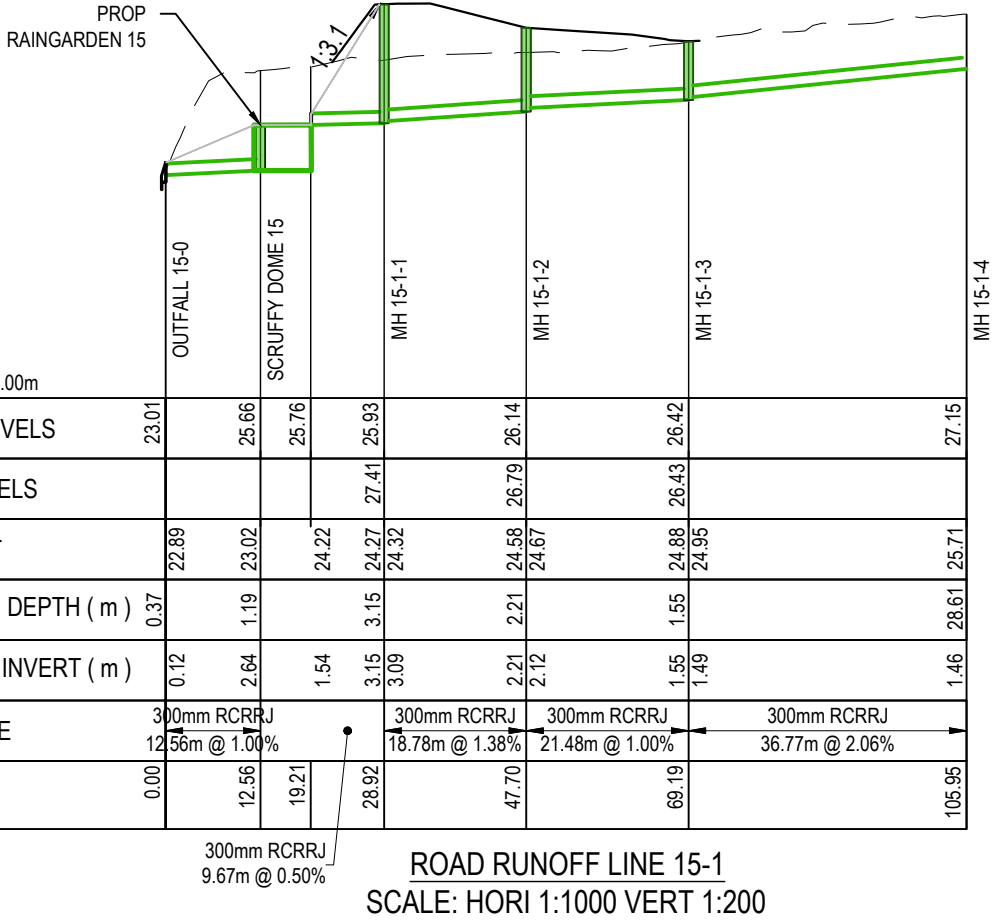
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**DEVELOPMENT OF
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DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420-26
Rev	A

RESOURCE CONSENT

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG



LEGEND:

--- EX GROUND SURFACE

--- PR DESIGN SURFACE

--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



Project

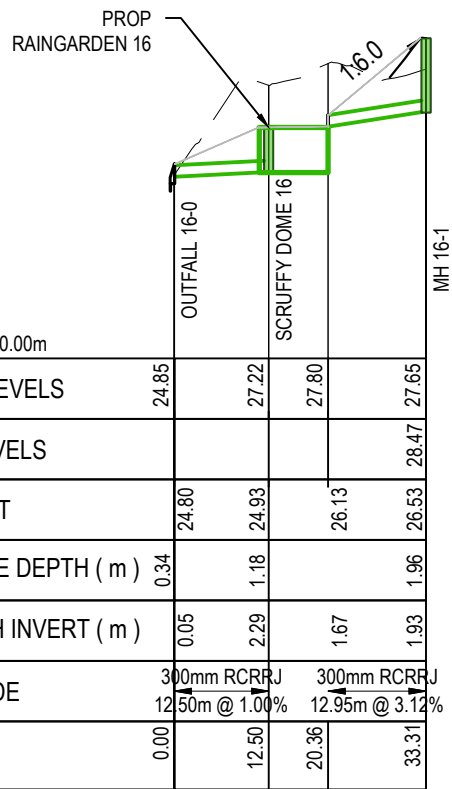
**DEVELOPMENT OF
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DEVELOPMENTS LIMITED
PARTNERSHIP**

Title

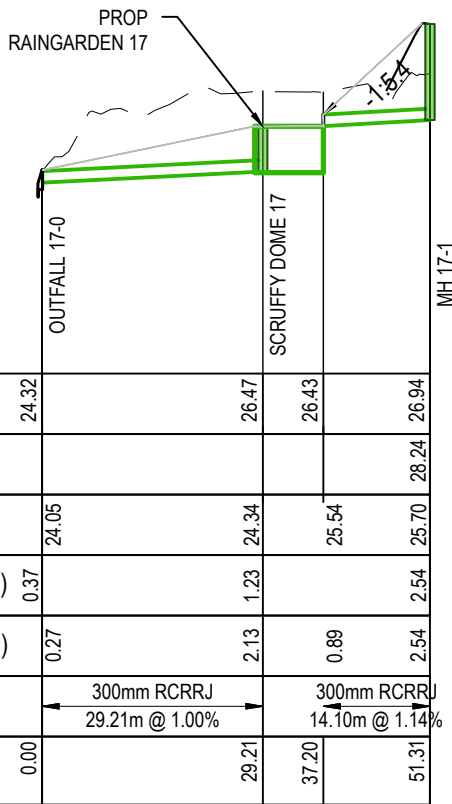
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-27	Rev	A

RESOURCE CONSENT



ROAD RUNOFF LINE 16
SCALE: HORI 1:1000 VERT 1:200



ROAD RUNOFF LINE 17
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED
GROUND LEVELS FOR
SW DEVICE AND OUTLET
IMPLEMENTATION. TO
BE CONFIRMED IN
DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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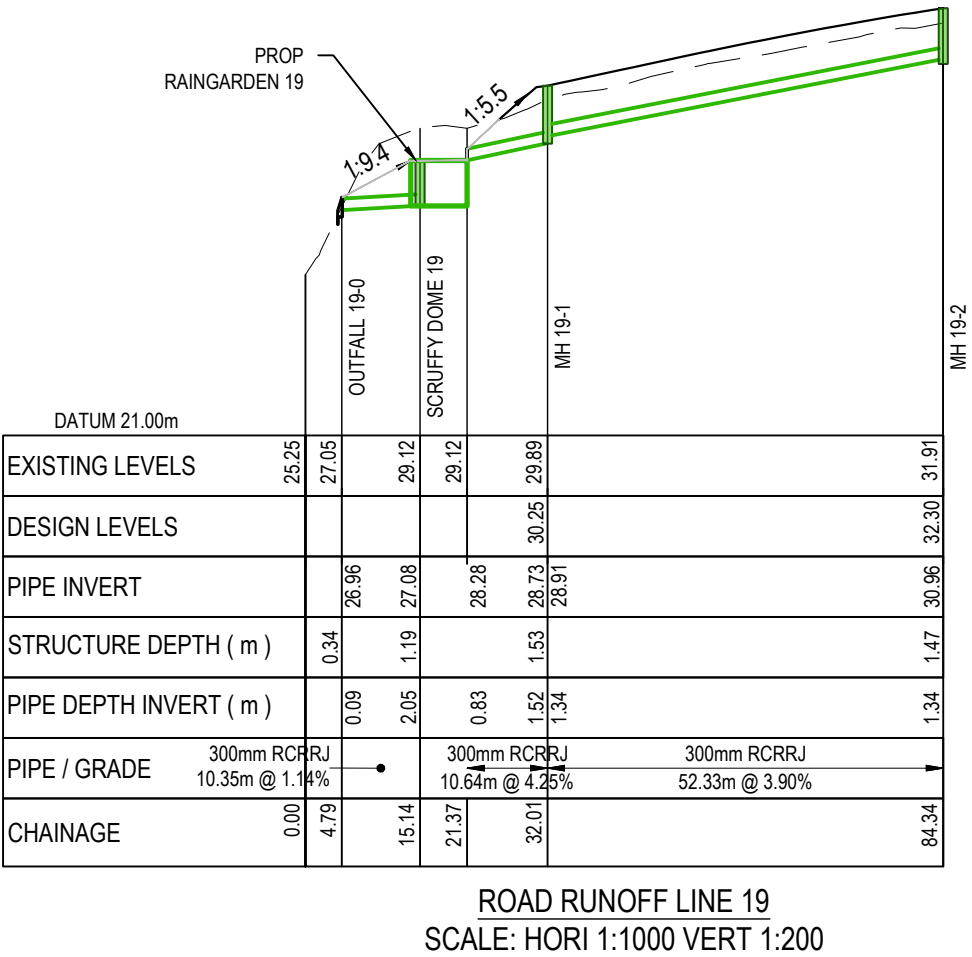
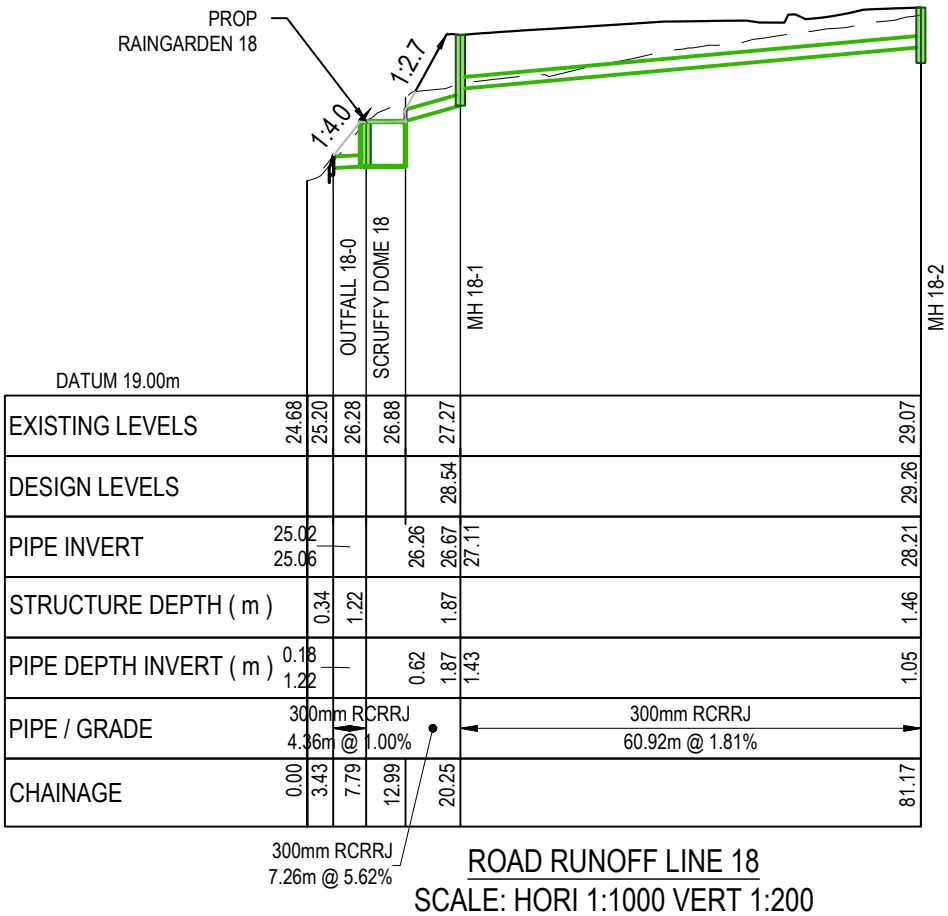
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Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS_ ROAD.DWG
Drawing no.	C420-28
Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



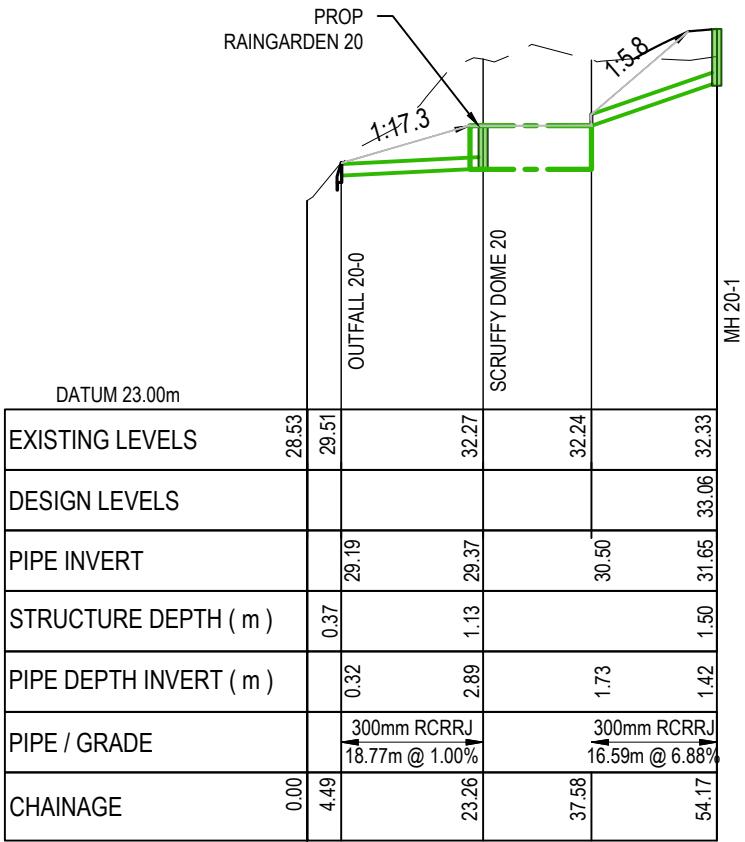
Project
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Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

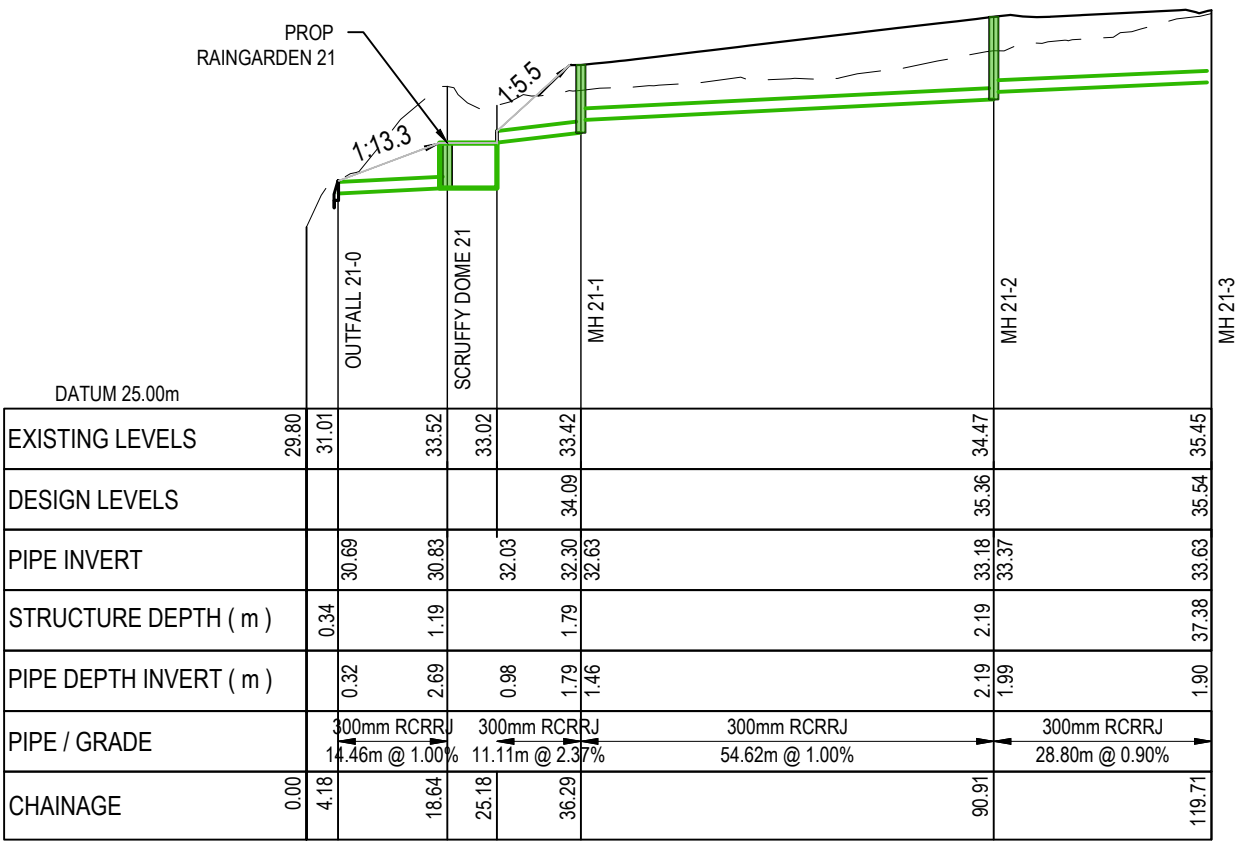
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Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-29	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\420\16-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 20
SCALE: HORI 1:1000 VERT 1:200



ROAD RUNOFF LINE 21
SCALE: HORI 1:1000 VERT 1:200

LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



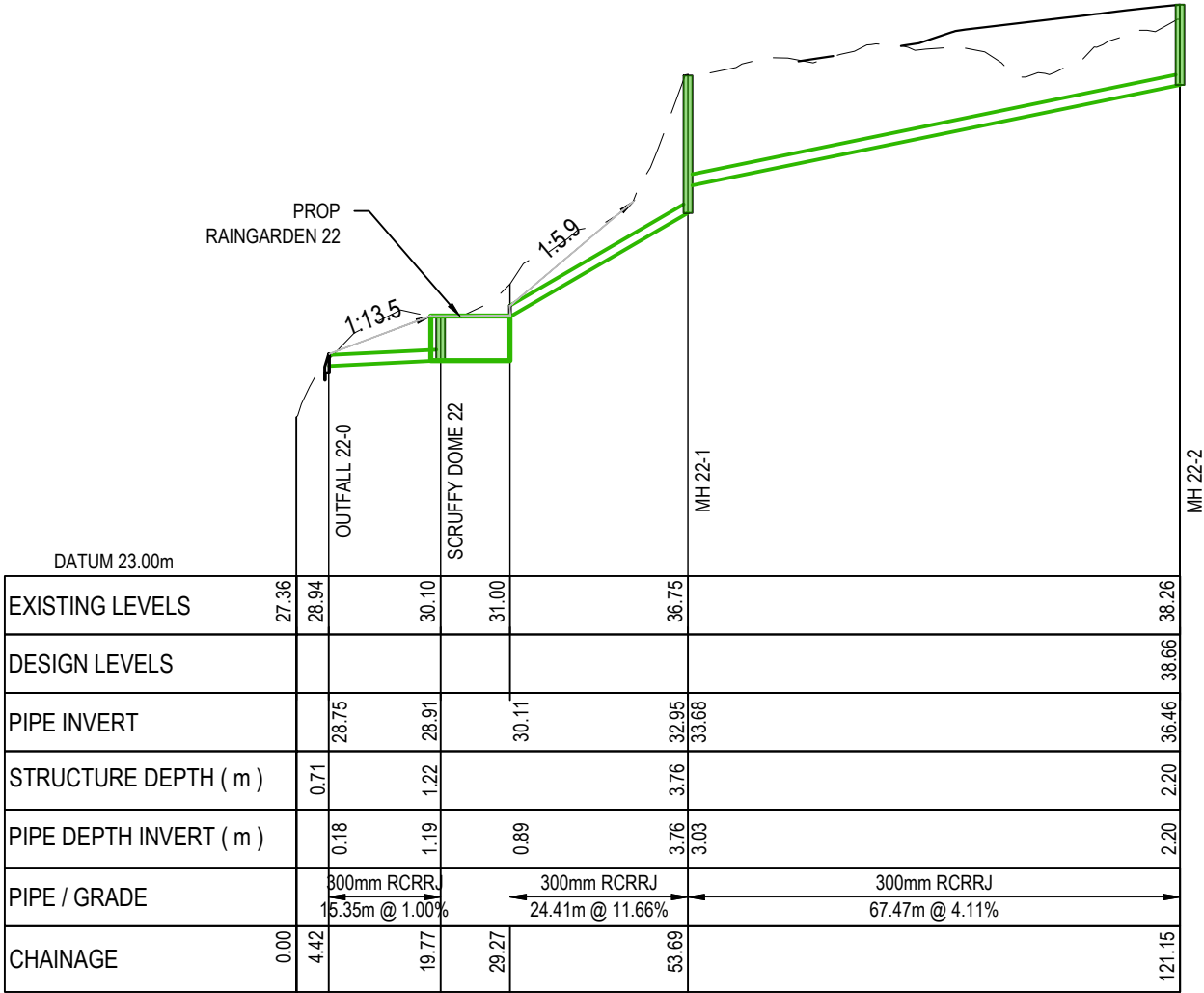
Project
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DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-30	Rev	A

DATE: 4/3/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



ROAD RUNOFF LINE 22
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE
--- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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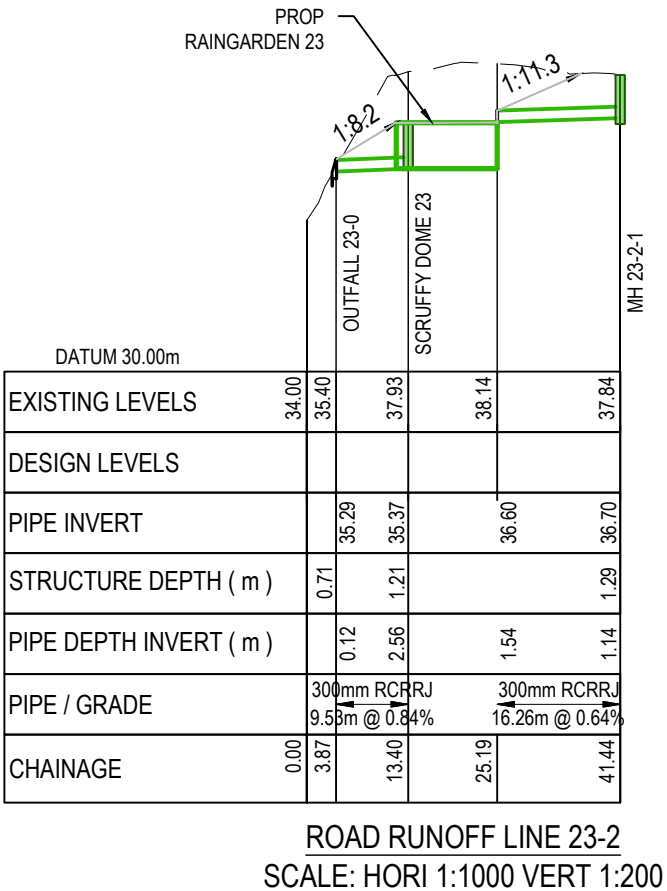
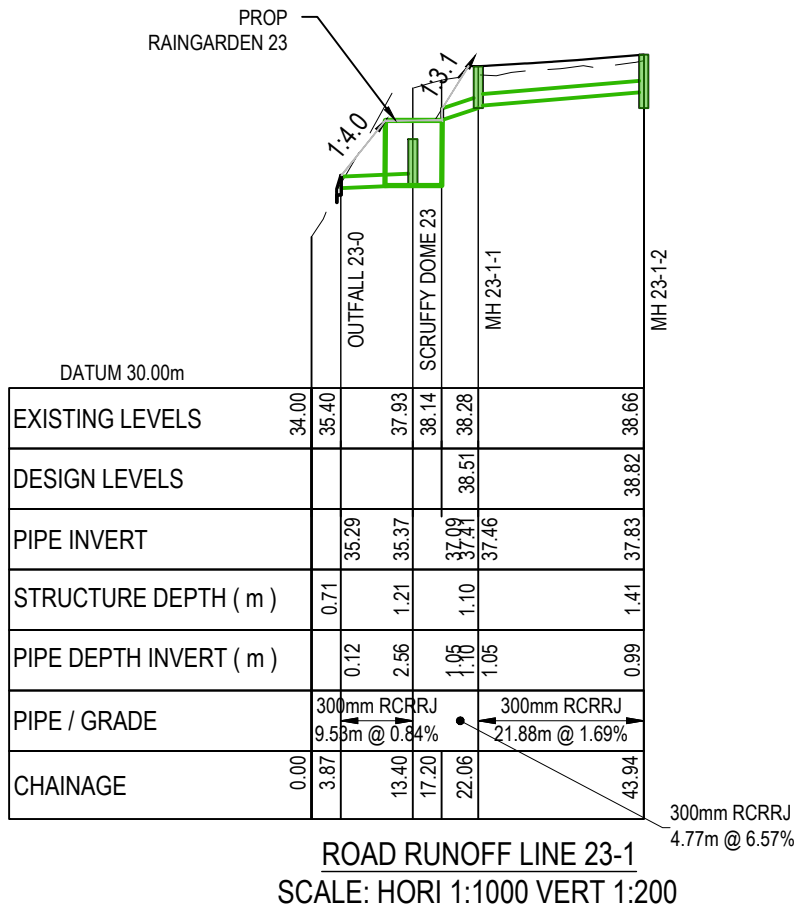
Project
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DEVELOPMENTS LIMITED
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Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C420 SW LS_ROAD.DWG		
Drawing no.	C420-31	Rev	A

DATE: 4/3/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\420\16-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT



LEGEND:

- EX GROUND SURFACE
- PR DESIGN SURFACE
- INDICATIVE LOCALISED GROUND LEVELS FOR SW DEVICE AND OUTLET IMPLEMENTATION. TO BE CONFIRMED IN DETAILED DESIGN

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



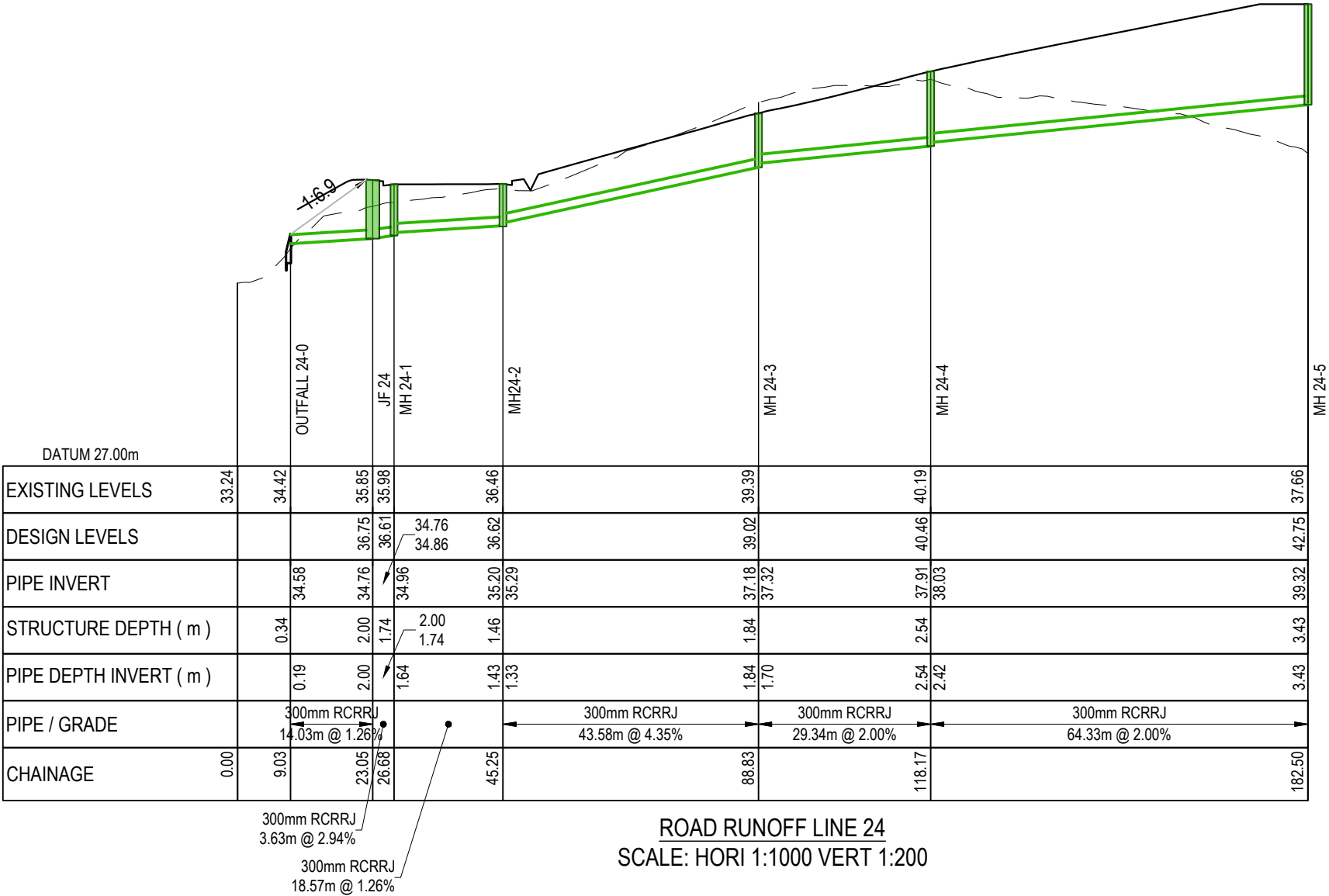
Project
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420-32
Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\420\16-RV-C420 SW LS ROAD.DWG

RESOURCE CONSENT

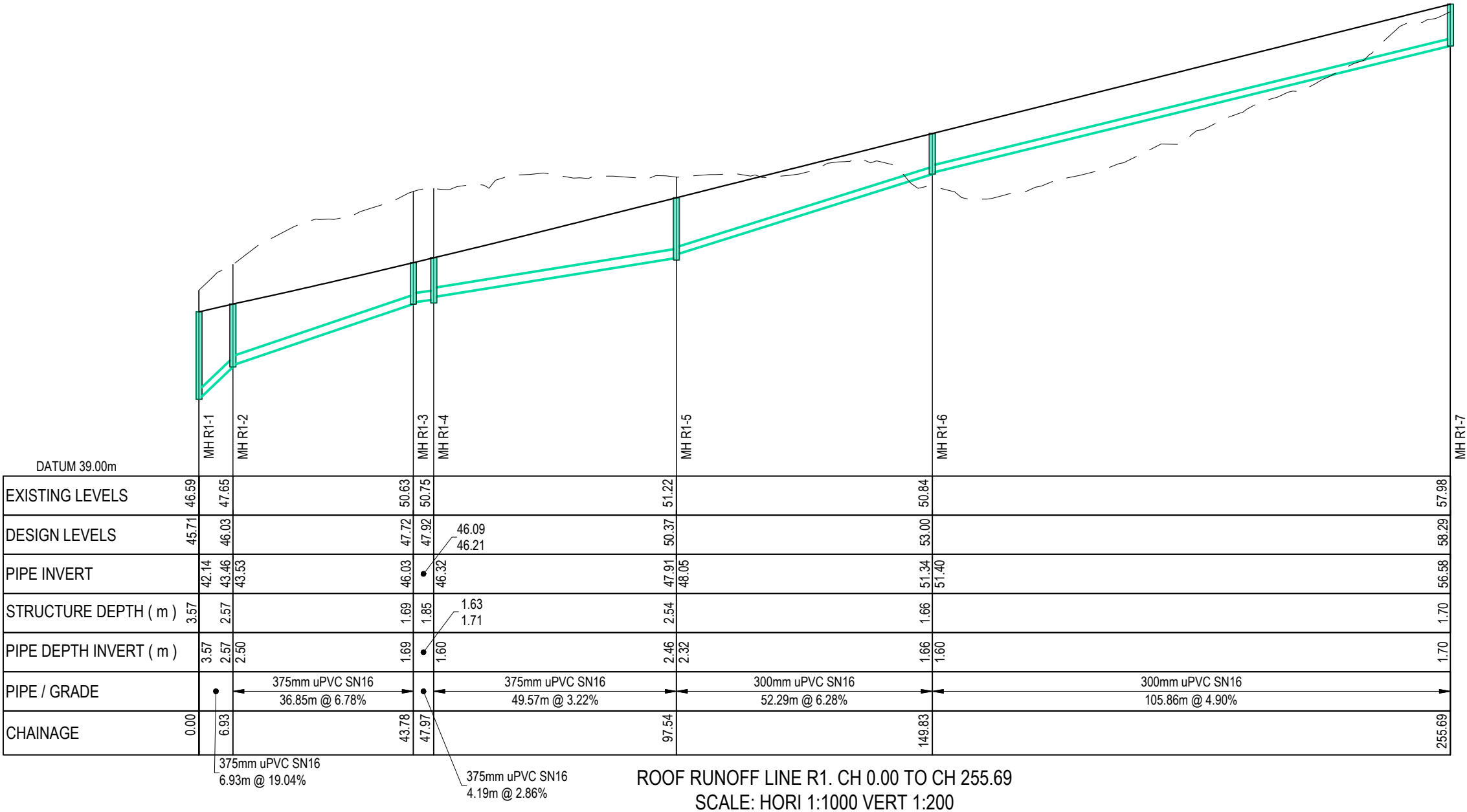


Project
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PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROAD RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C420 SW LS ROAD.DWG
Drawing no.	C420-33
Rev	A

DATE: 4/20/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS-ROOF.DWG



LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



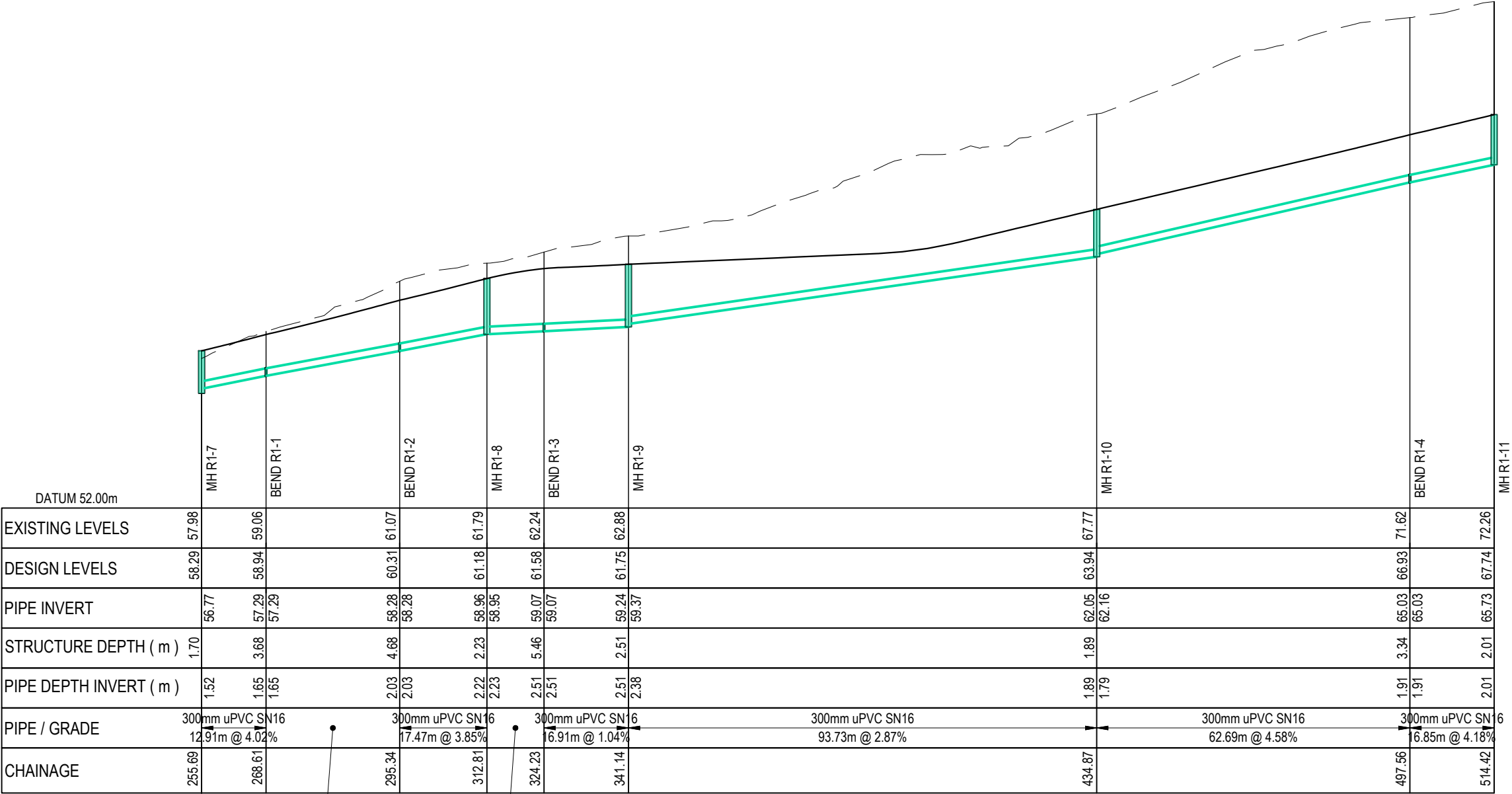
Project
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DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS-ROOF.DWG		
Drawing no.	C421	Rev	A

RESOURCE CONSENT

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG



ROOF RUNOFF LINE R1- CH 255.69 TO CH 514.42
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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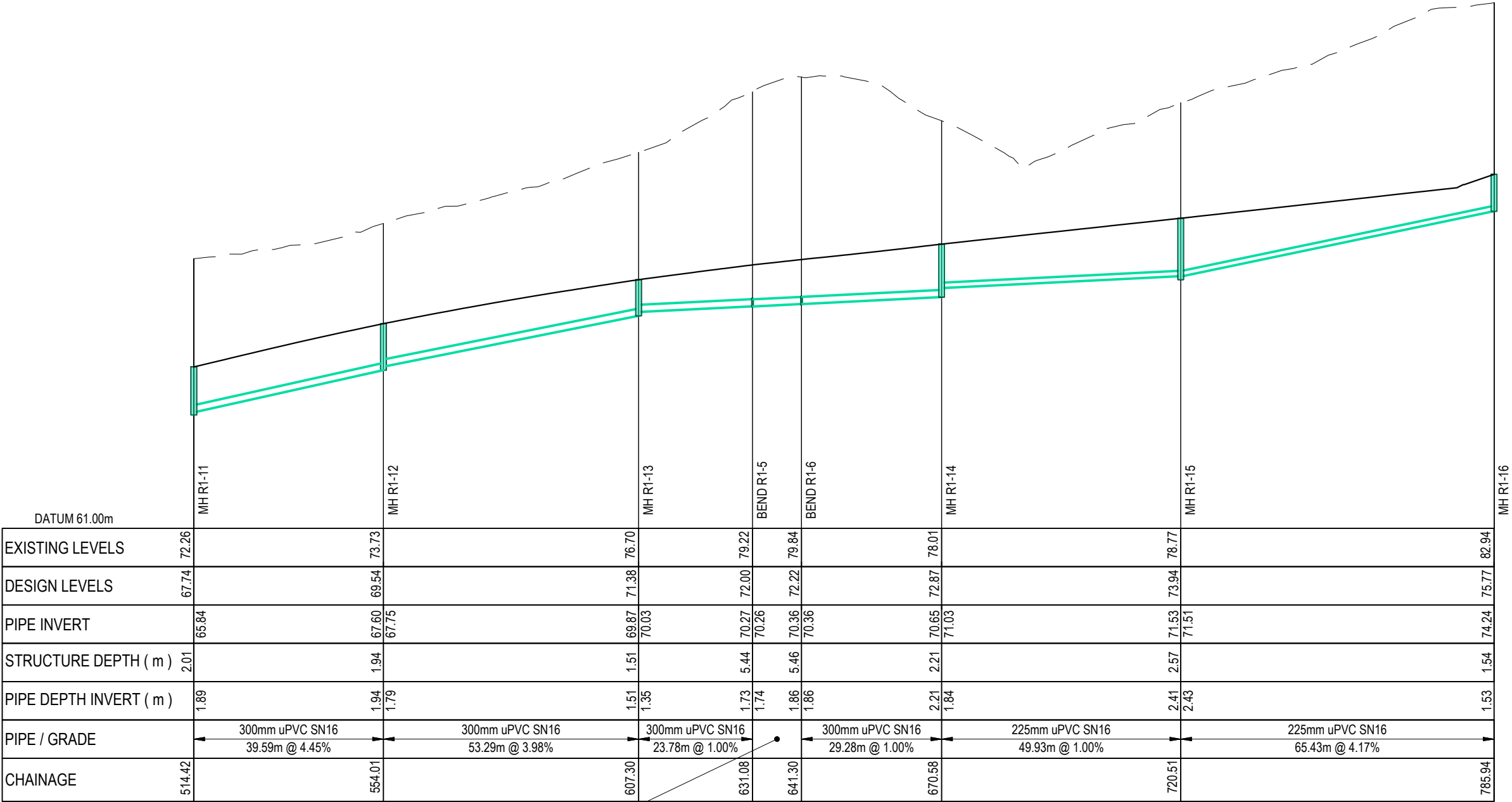
Auckland 1023

Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-1	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS-ROOF.DWG



300mm uPVC SN16
10.22m @ 1.00%

ROOF RUNOFF LINE R1.- CH 514.42 TO CH 785.94
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



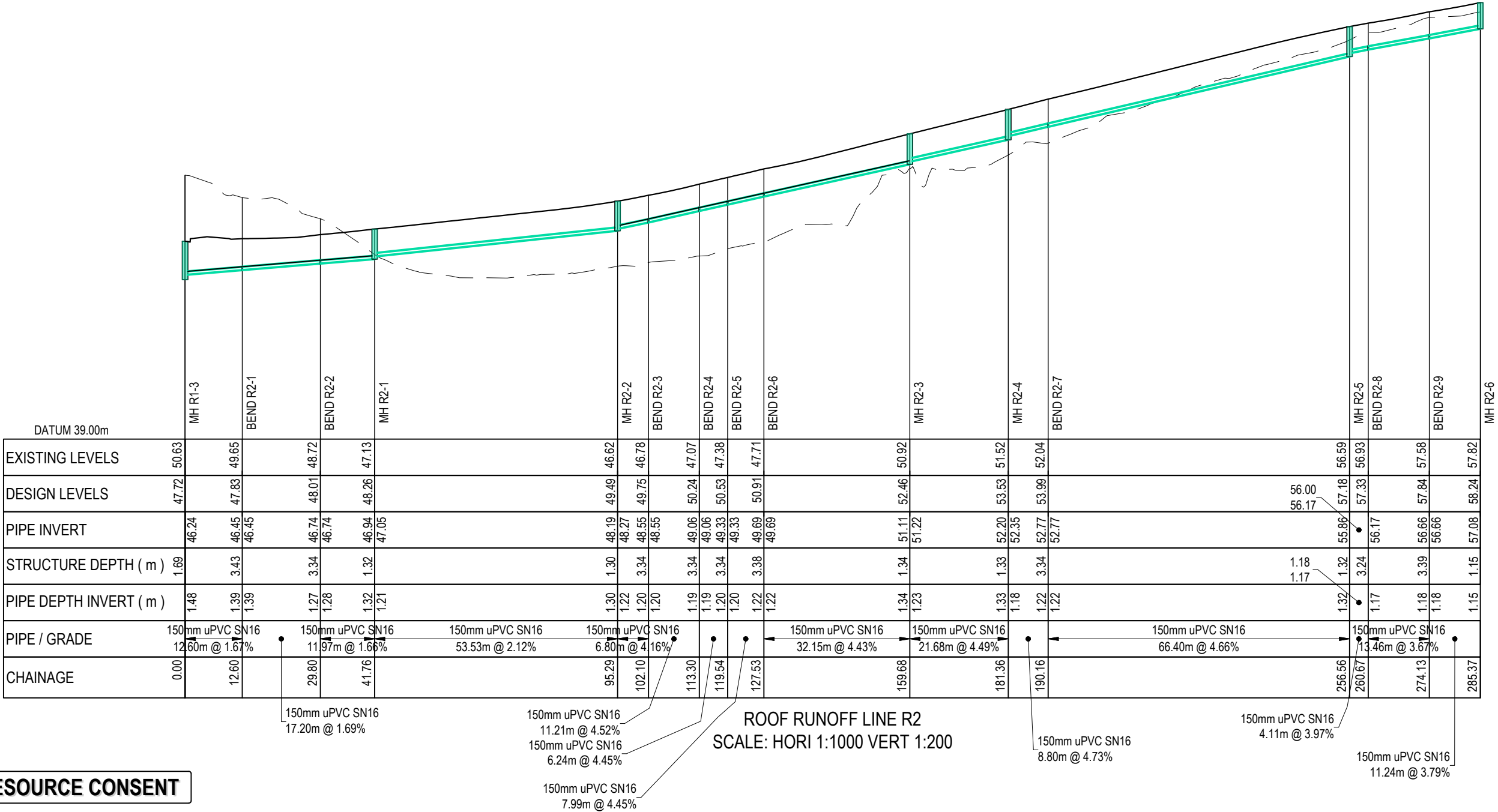
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS-ROOF.DWG		
Drawing no.	C421-2	Rev	A

RESOURCE CONSENT

DATE: 4/3/2025 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421-SW-LS-ROOF.DWG



RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025



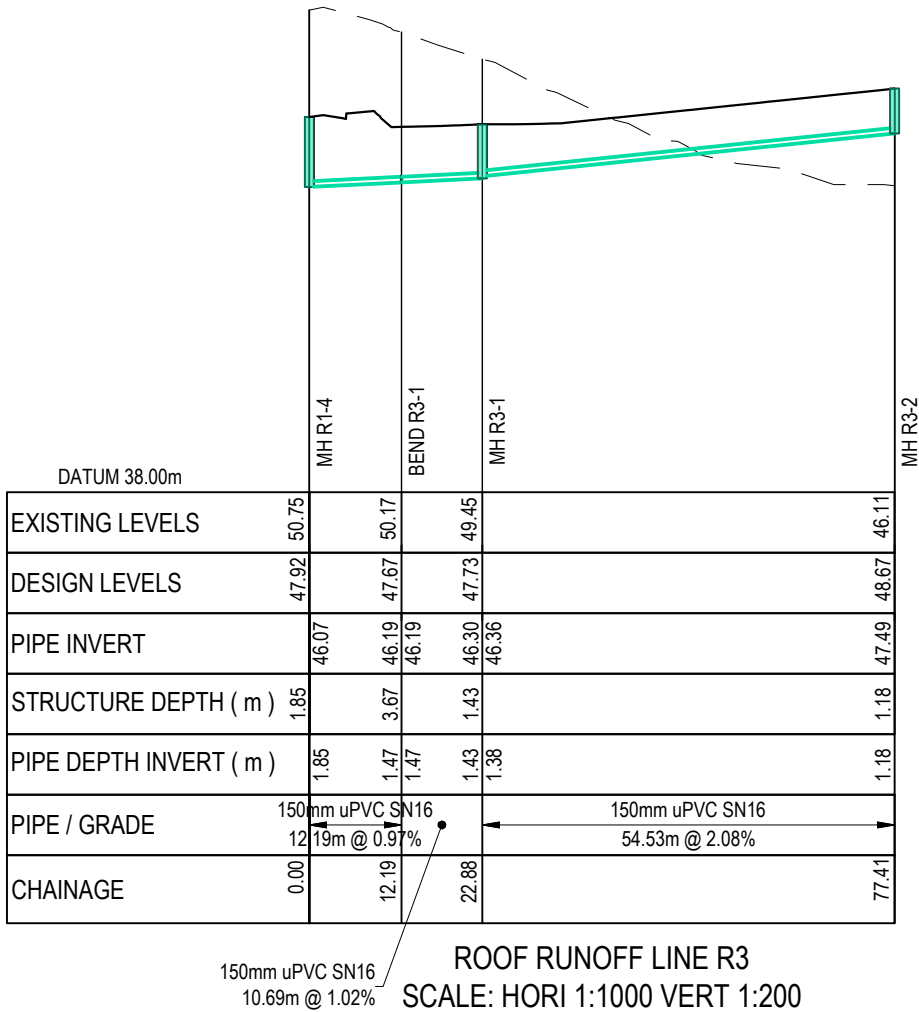
Project
**DEVELOPMENT OF
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C421-SW-LS-ROOF.DWG
Drawing no.	C421-3
Rev	A

DATE: 4/3/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS-ROOF.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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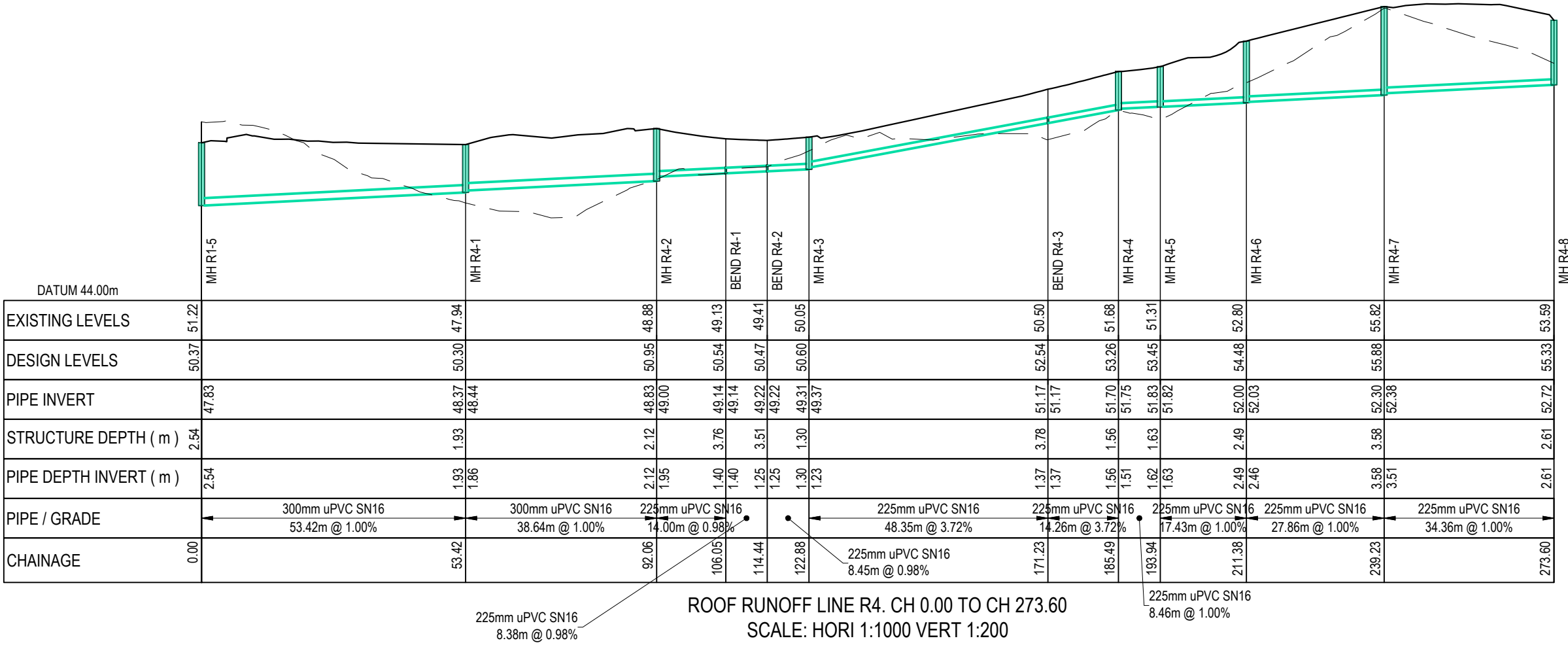
Project
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS-ROOF.DWG		
Drawing no.	C421-4	Rev	A

DATE: 4/3/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421-SW-LS-ROOF.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

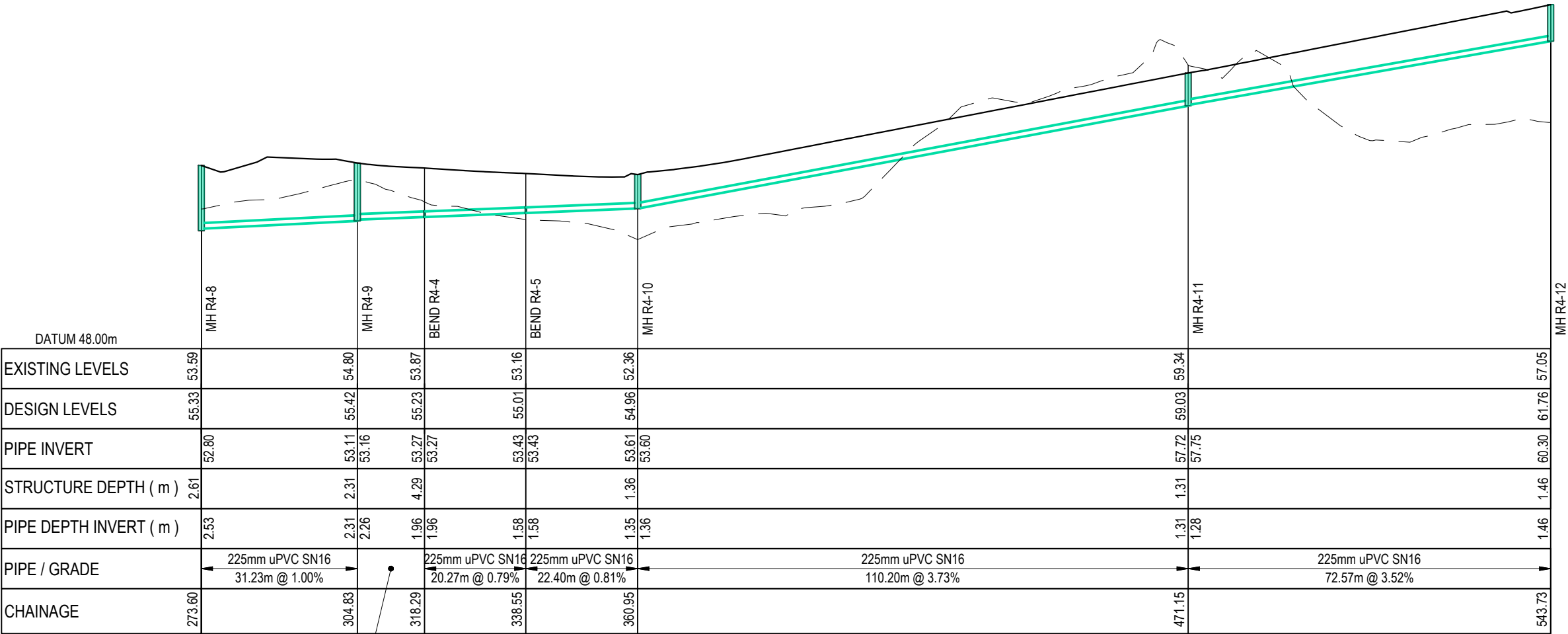
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PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421-SW-LS-ROOF.DWG		
Drawing no.	C421-5	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG



225mm uPVC SN16
13.46m @ 0.79%

ROOF RUNOFF LINE R4.. CH 273.60 TO CH 543.73
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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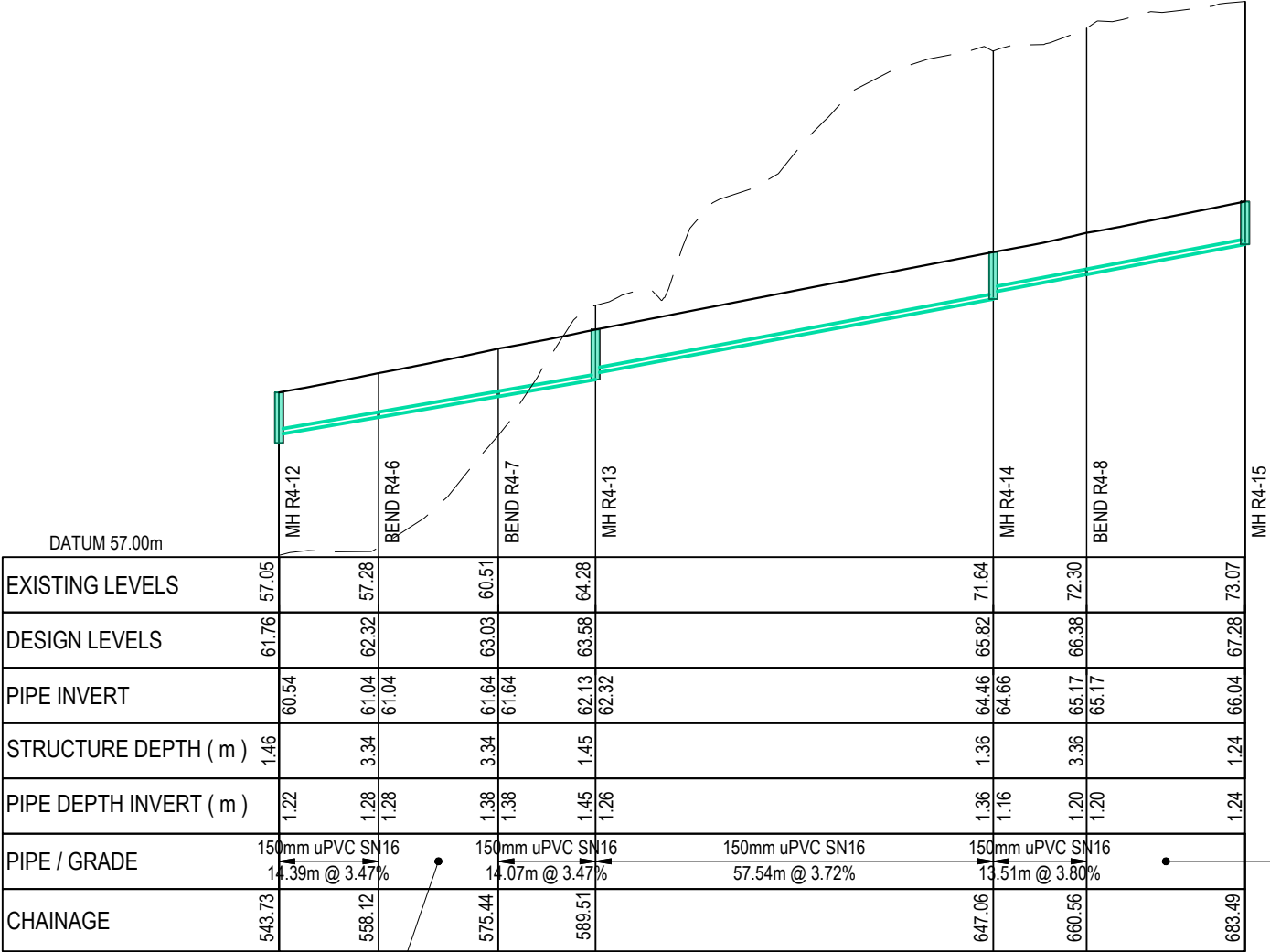
Project
**DEVELOPMENT OF
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DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-6	Rev	A

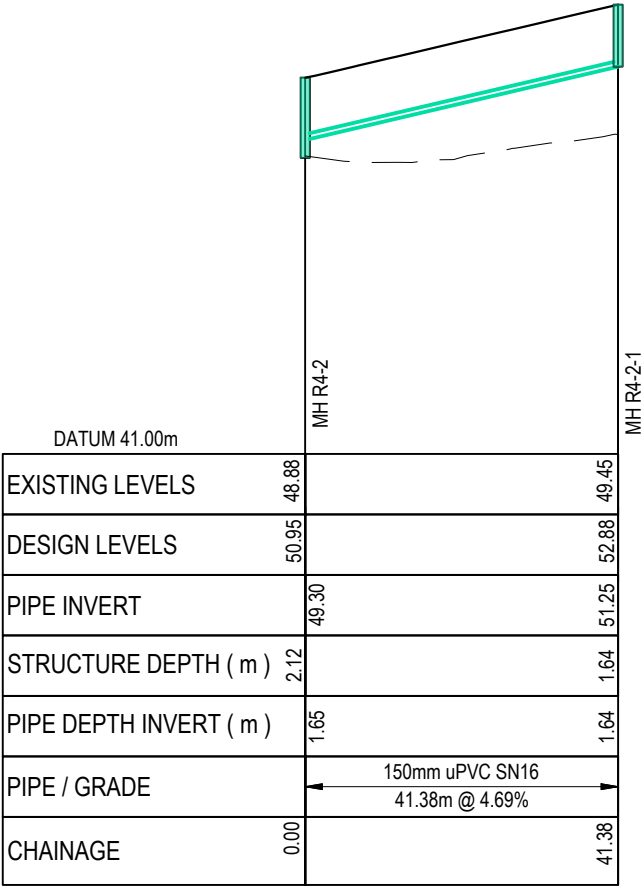
RESOURCE CONSENT

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS-ROOF.DWG



150mm uPVC SN16
17.32m @ 3.47%

ROOF RUNOFF LINE R4- CH 543.73 TO CH 683.49
SCALE: HORI 1:1000 VERT 1:200



ROOF RUNOFF LINE R4-2
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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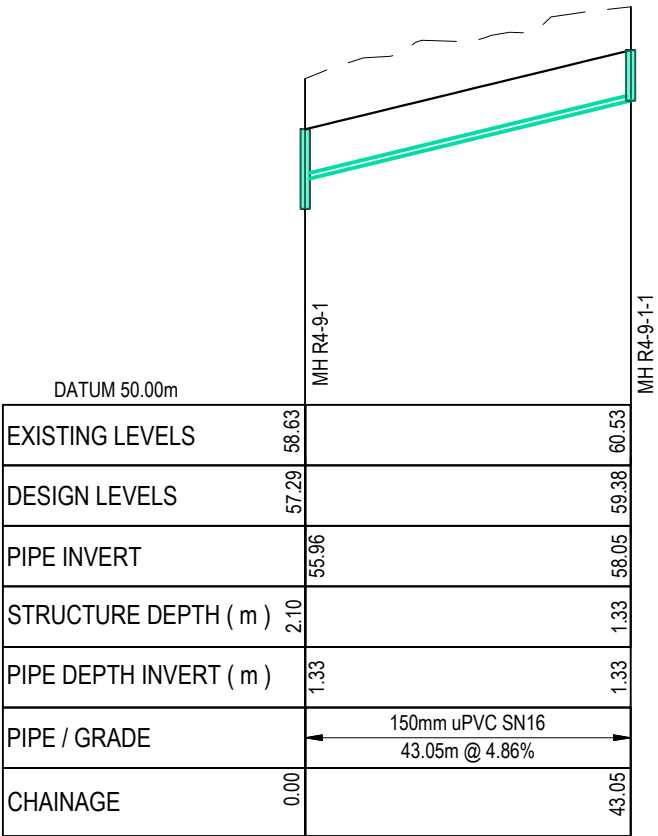
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

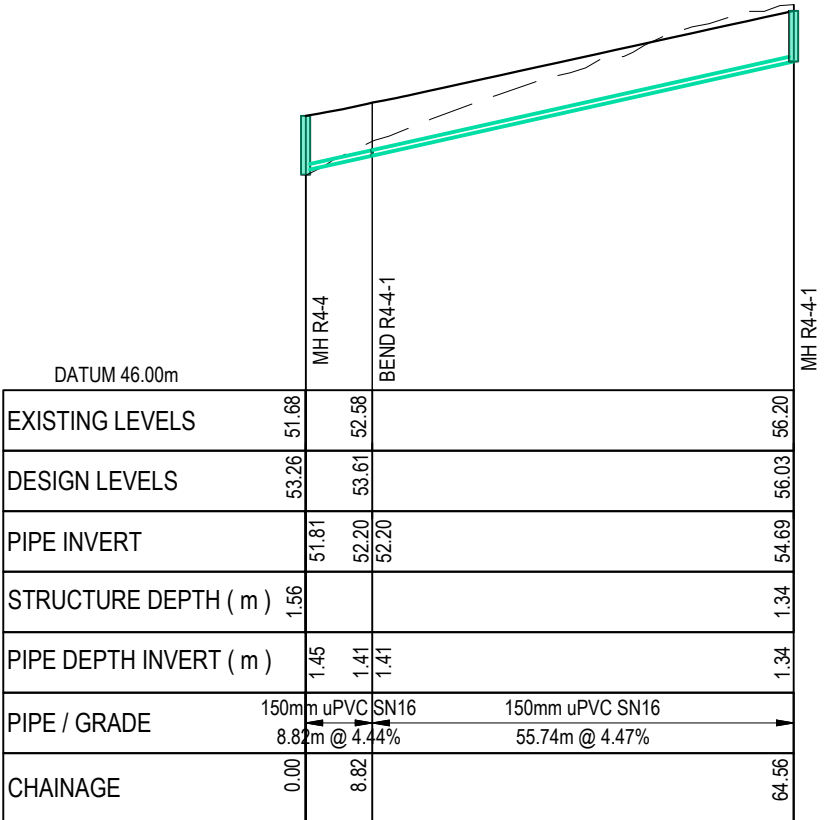
Project no.	147016		
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Cad file	147016-RV-C421 SW-LS-ROOF.DWG		
Drawing no.	C421-7	Rev	A

RESOURCE CONSENT

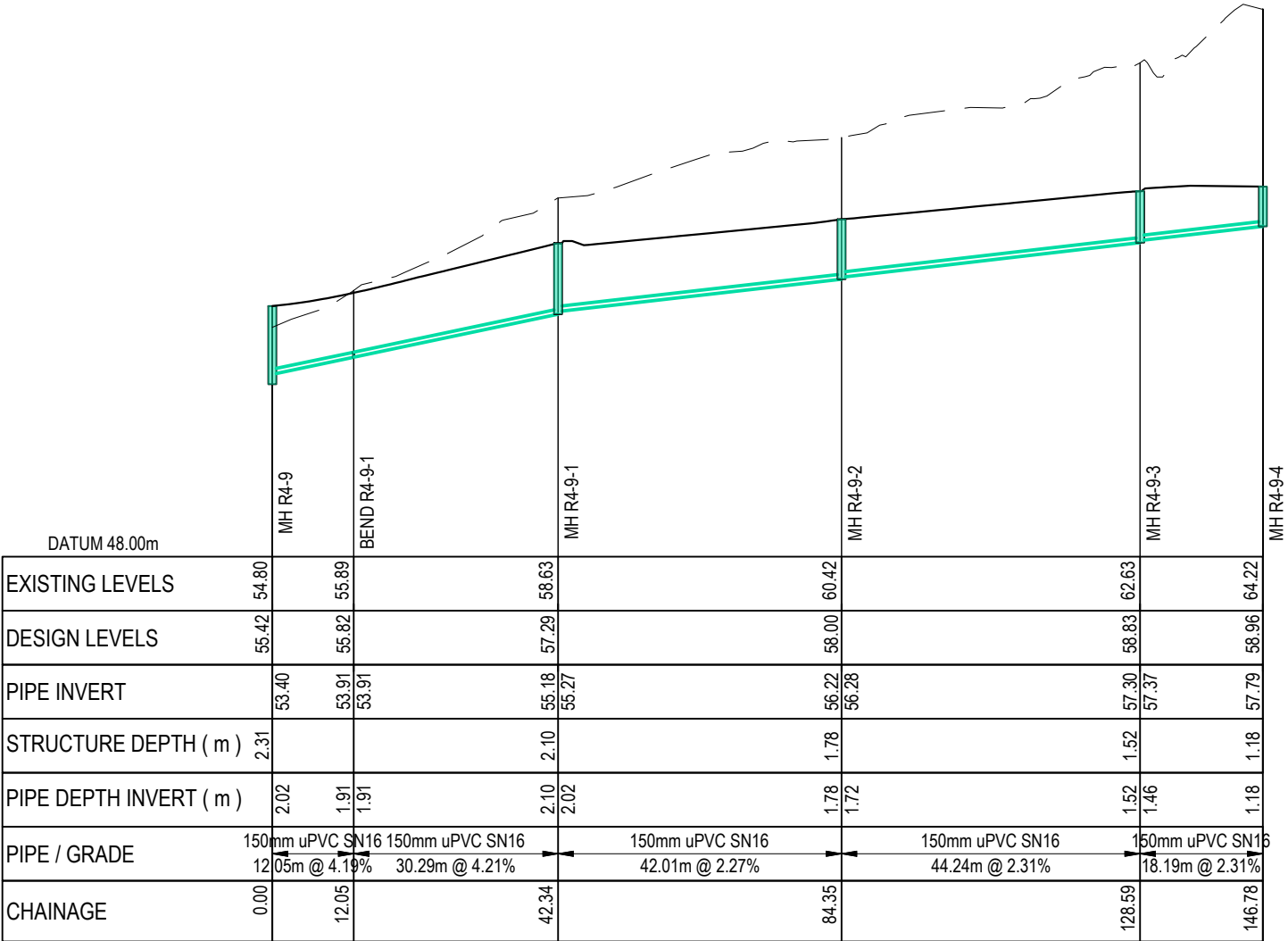
DATE: 4/20/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS-ROOF.DWG



ROOF RUNOFF LINE R4-9-1
SCALE: HORI 1:1000 VERT 1:200



ROOF RUNOFF LINE R4-4
SCALE: HORI 1:1000 VERT 1:200



ROOF RUNOFF LINE R4-9
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	



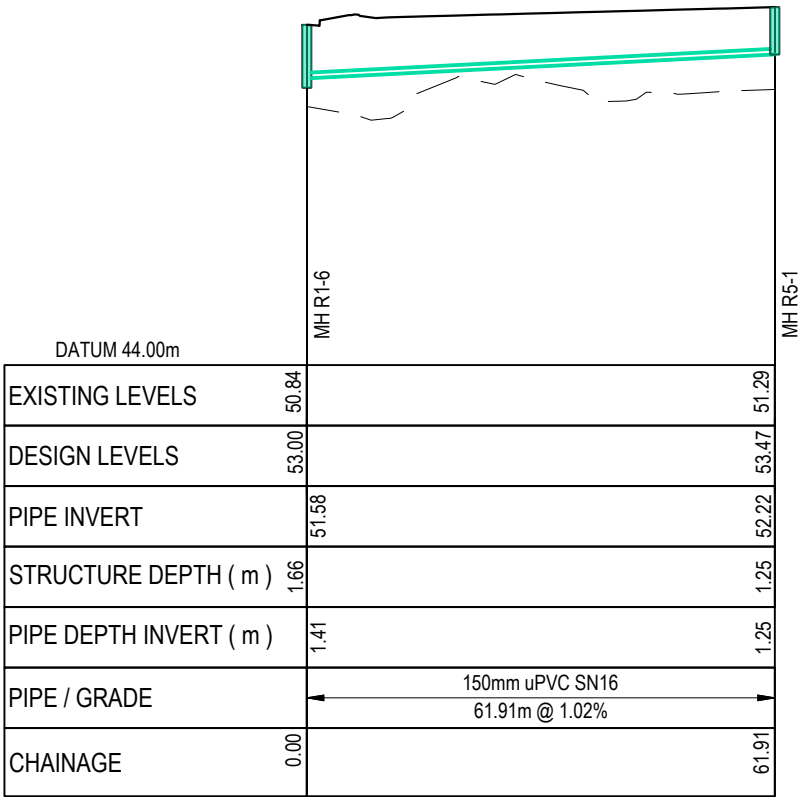
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C421 SW-LS-ROOF.DWG
Drawing no.	C421-8
Rev	A

DATE: 4/30/25 FILE PATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG

RESOURCE CONSENT



ROOF RUNOFF LINE R5
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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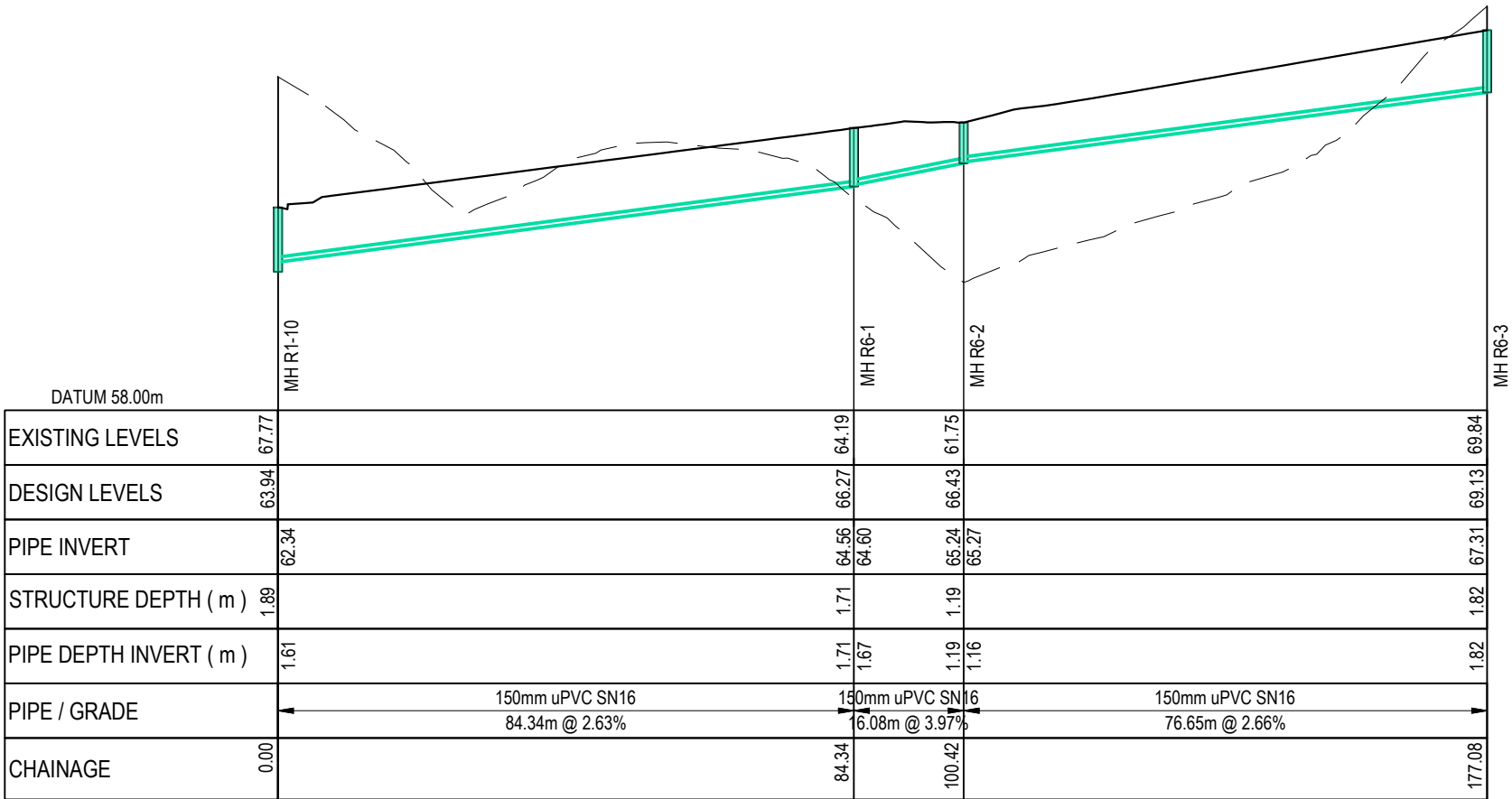
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-9	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG

RESOURCE CONSENT



ROOF RUNOFF LINE R6. CH 0.00 TO CH 177.08
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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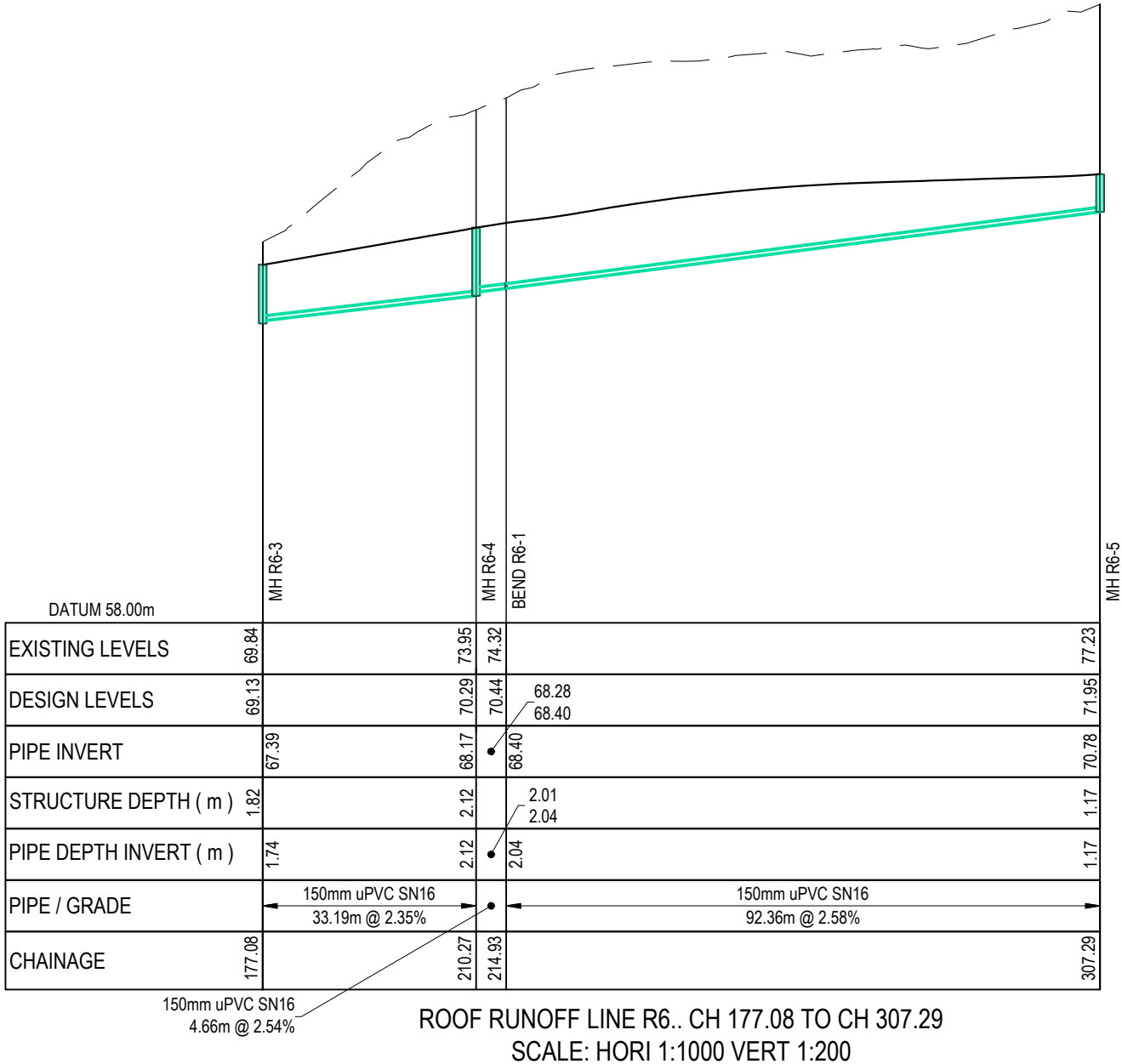
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-10	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG

RESOURCE CONSENT



A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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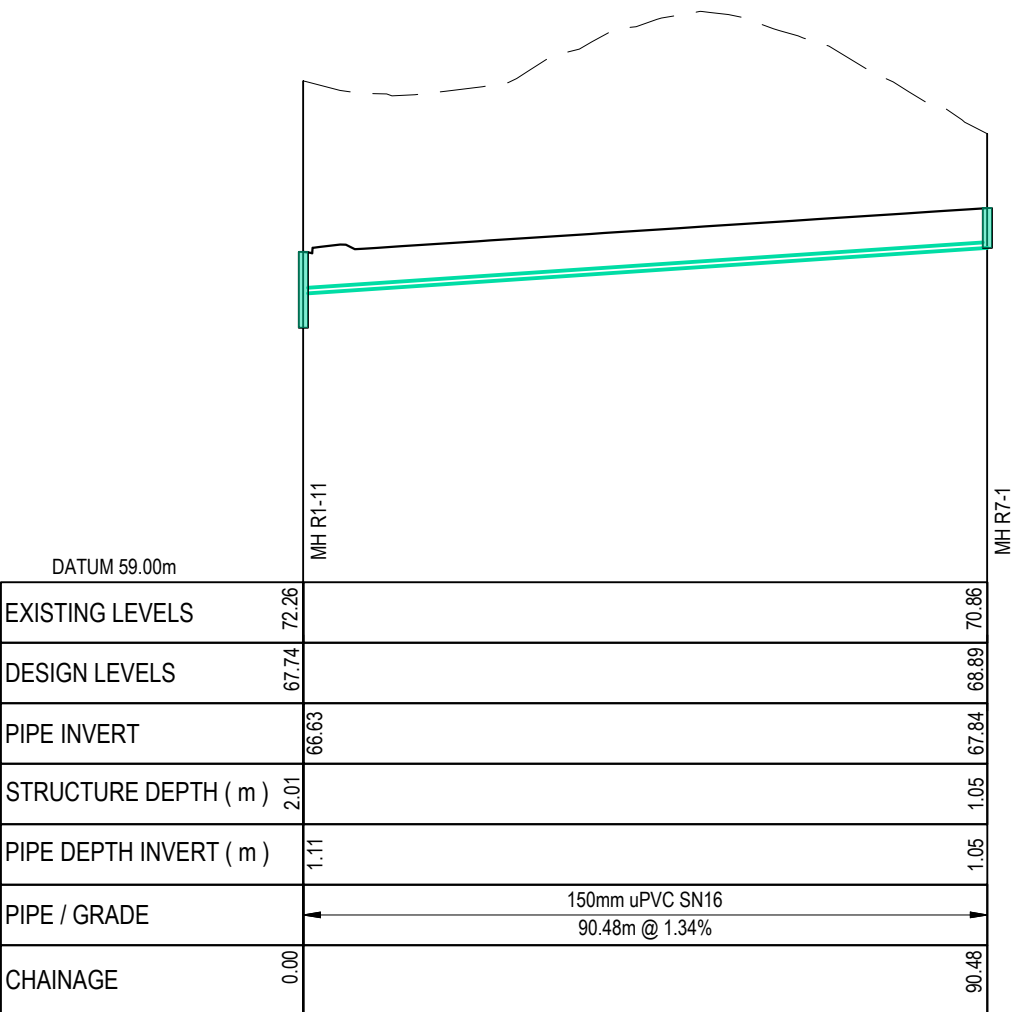
5 Owens Road, Epsom

Auckland 1023

Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-11	Rev	A



ROOF RUNOFF LINE R7
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
—— PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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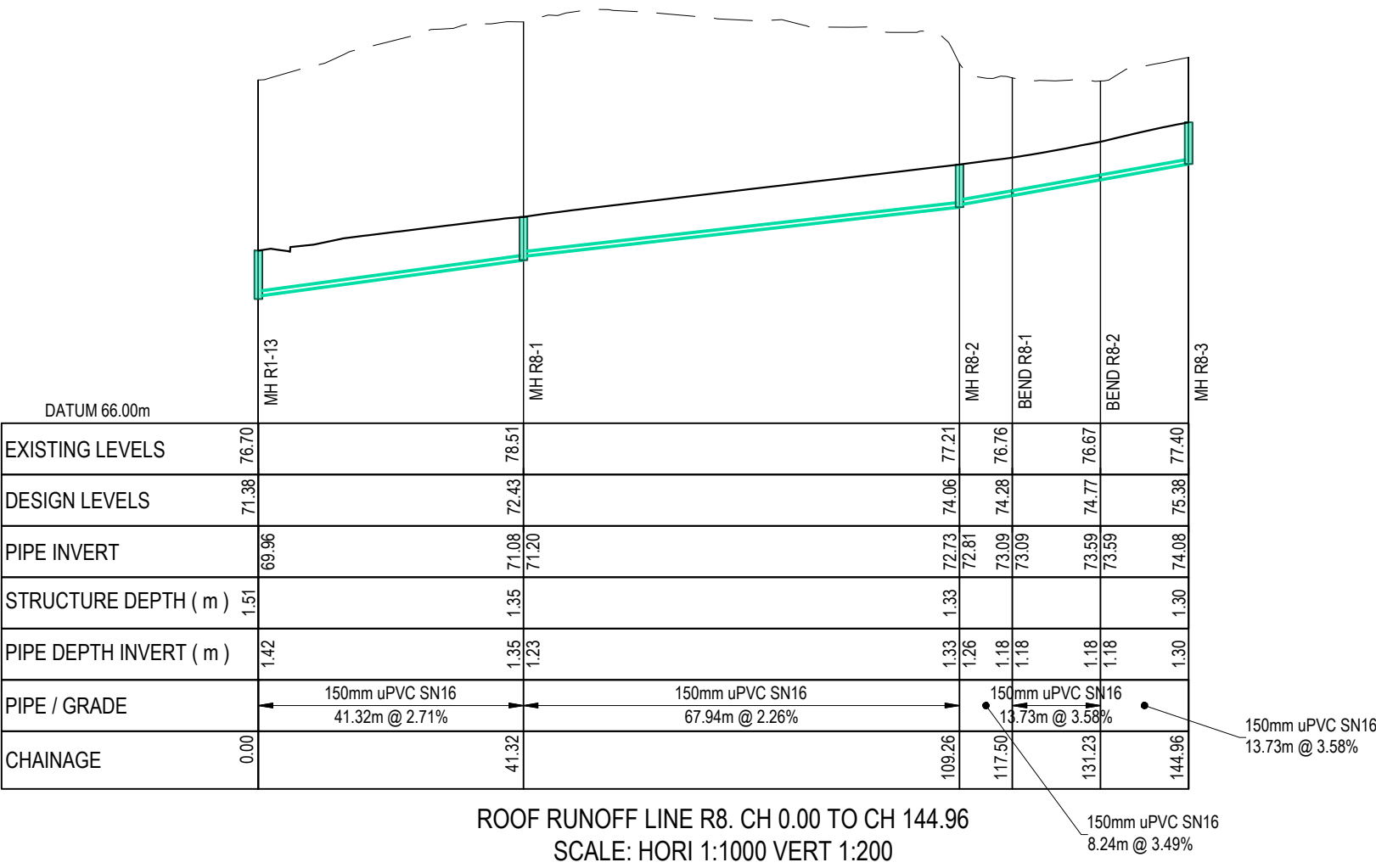
Auckland 1023

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**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-12	Rev	A

RESOURCE CONSENT



RESOURCE CONSENT

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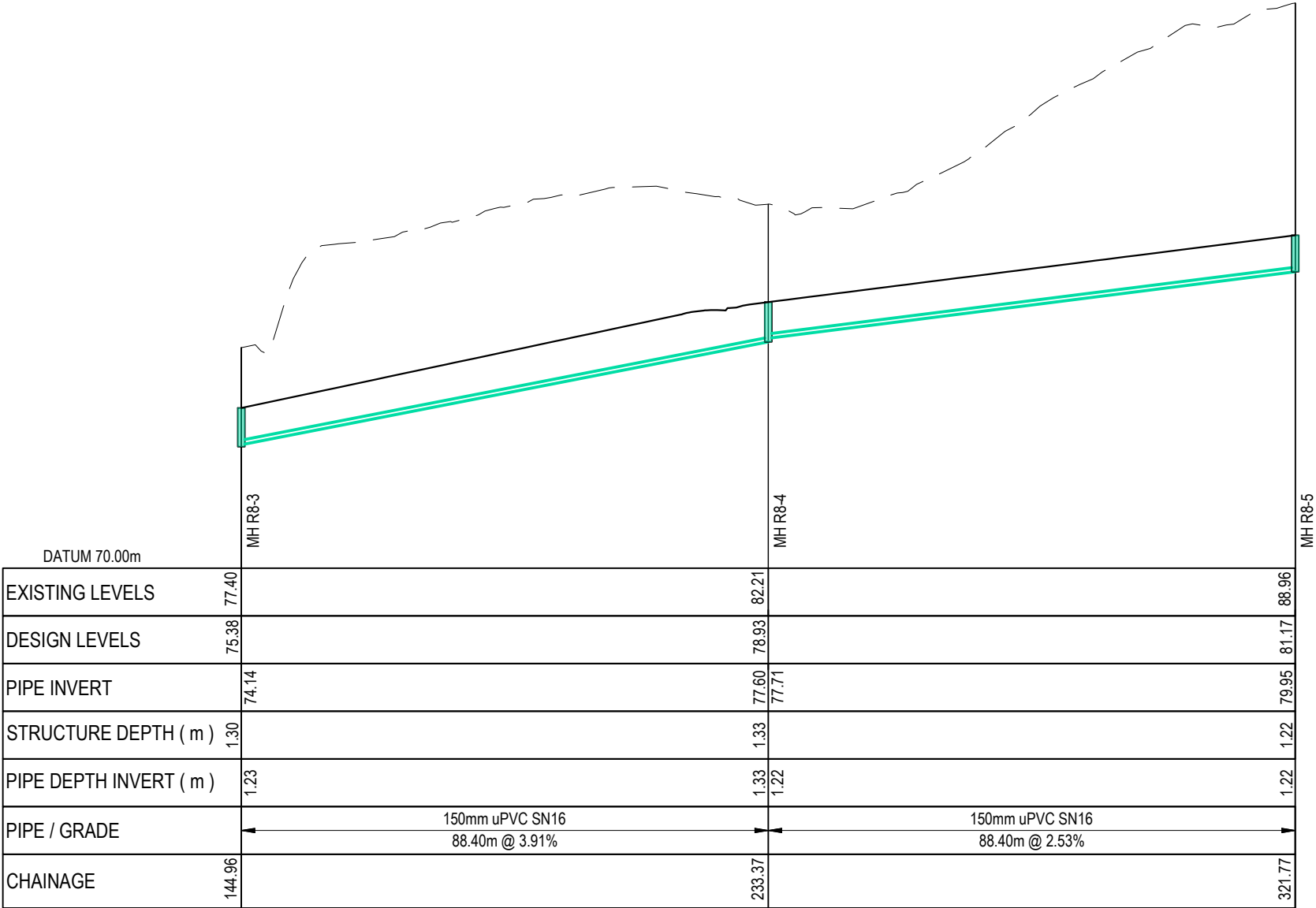
5 Owens Road, Epsom

Auckland 1023

Project			
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP			
Title			
RETIREMENT VILLAGE STORMWATER LONG SECTIONS - ROOF RUN OFF			
Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-13	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG

RESOURCE CONSENT



ROOF RUNOFF LINE R8.. CH 144.96 TO CH 321.77
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
— PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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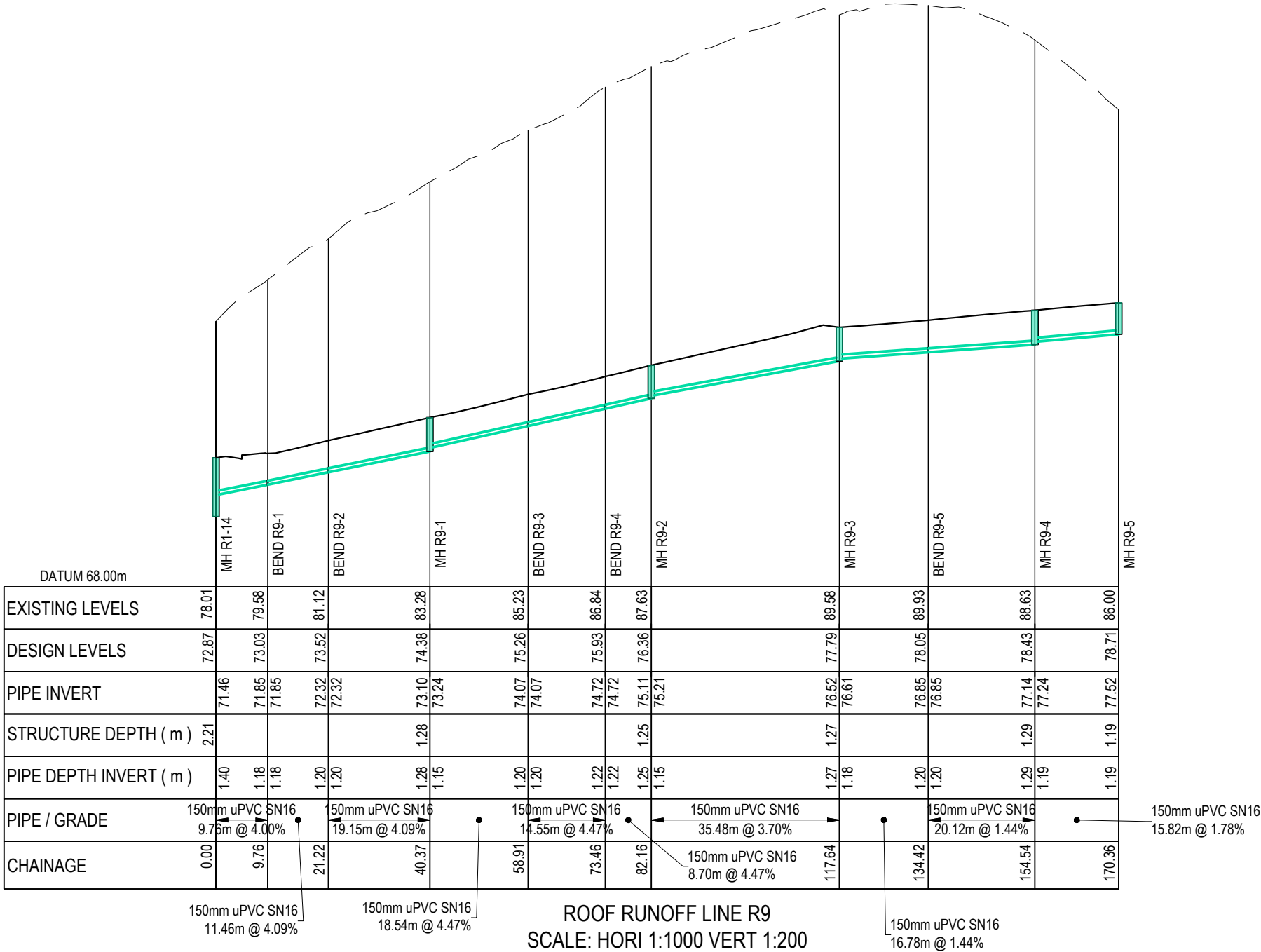
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-14	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS-ROOF.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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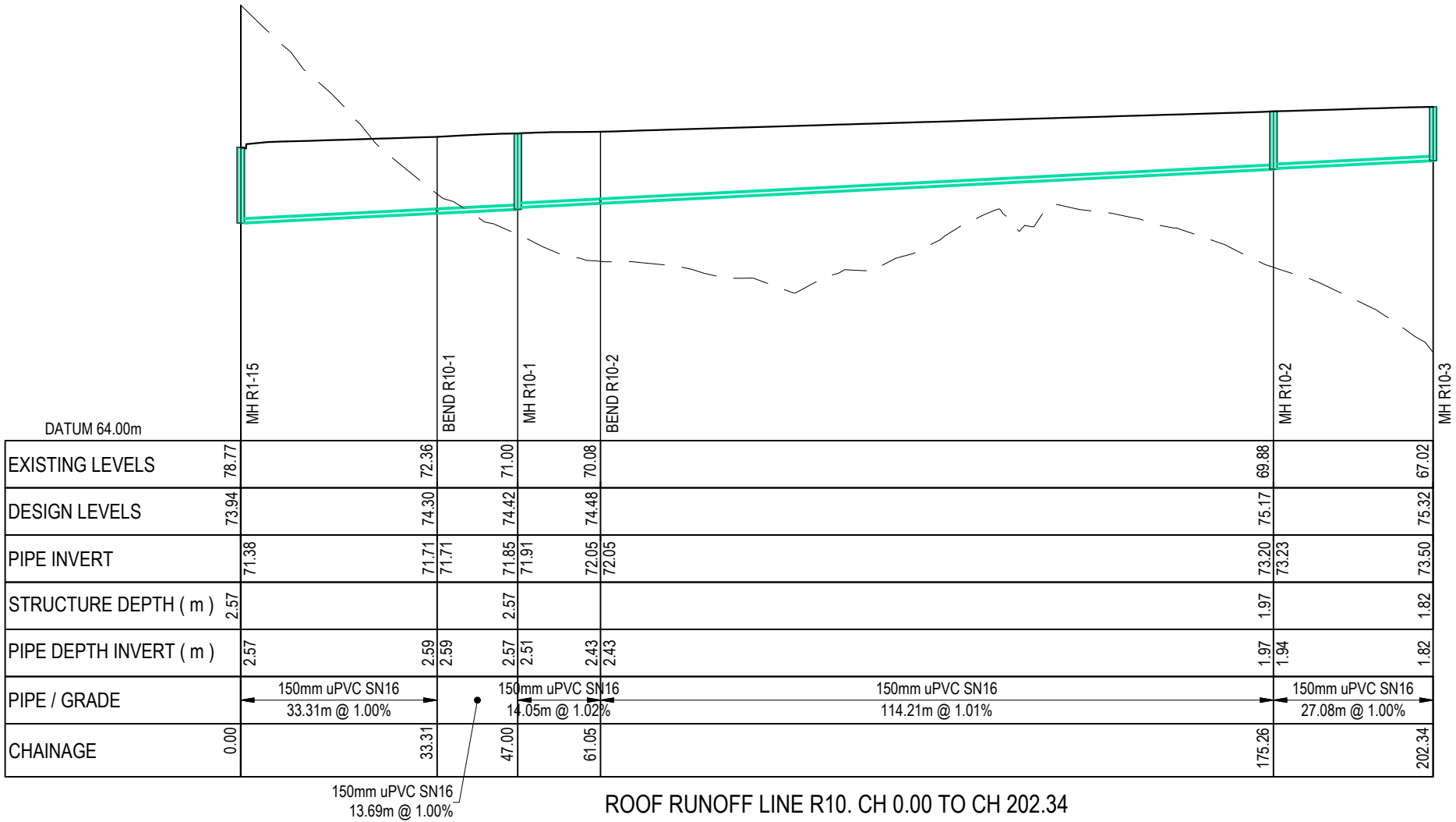
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-15	Rev	A

DATE: 4/3/25 FILE PATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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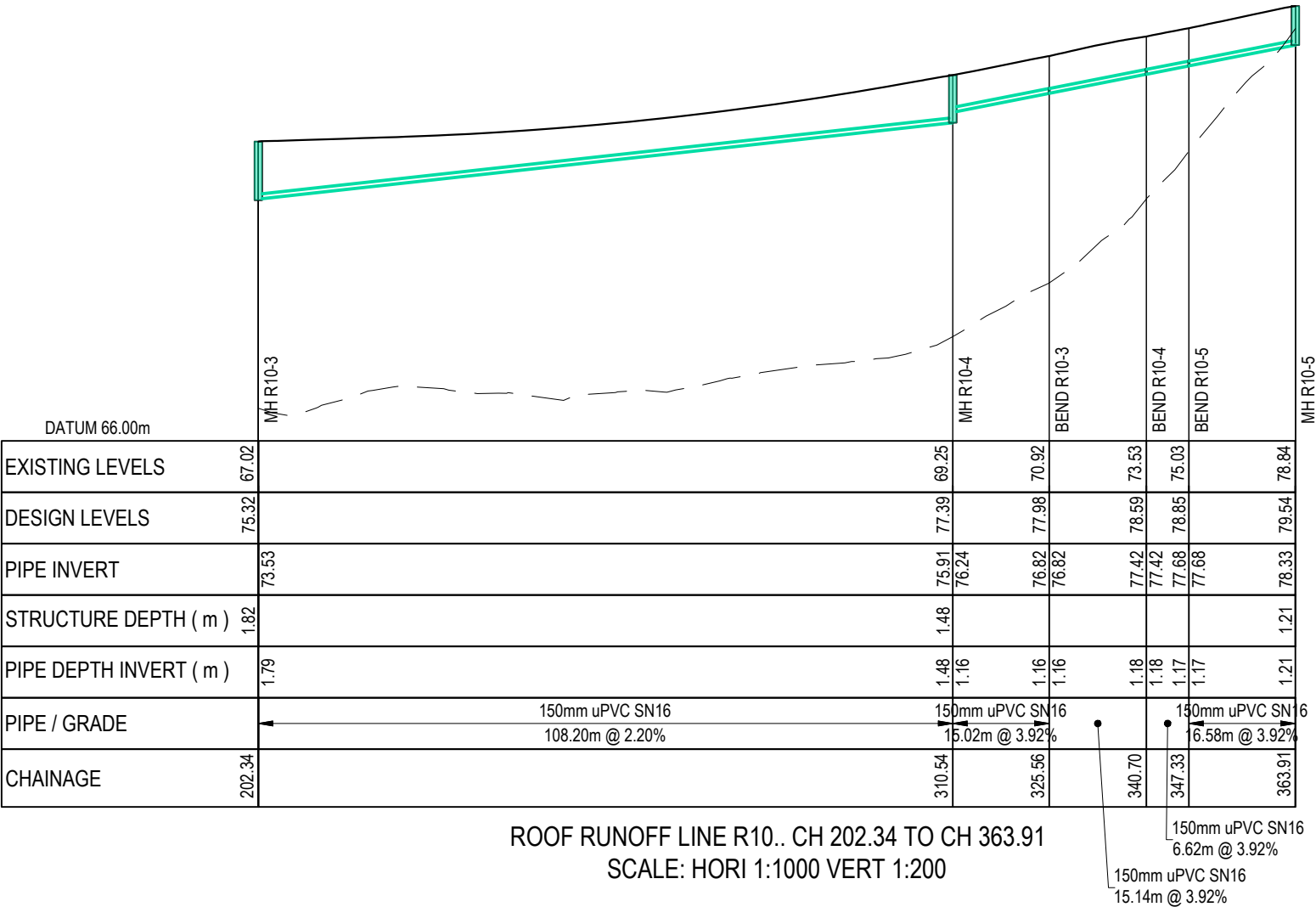
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-16	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

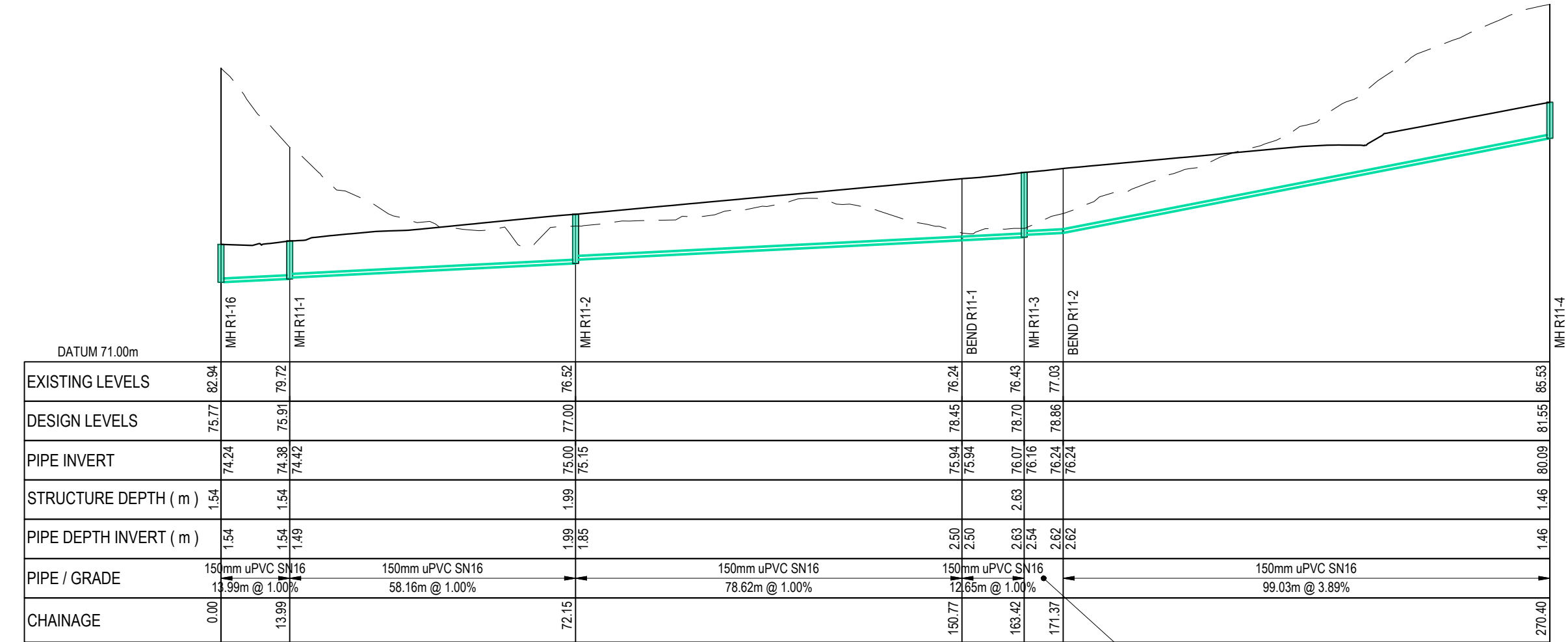


Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-17	Rev	A

DATE: 4/30/25 FILEPATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG



ROOF RUNOFF LINE 11 CH 0.00 TO CH 270.40
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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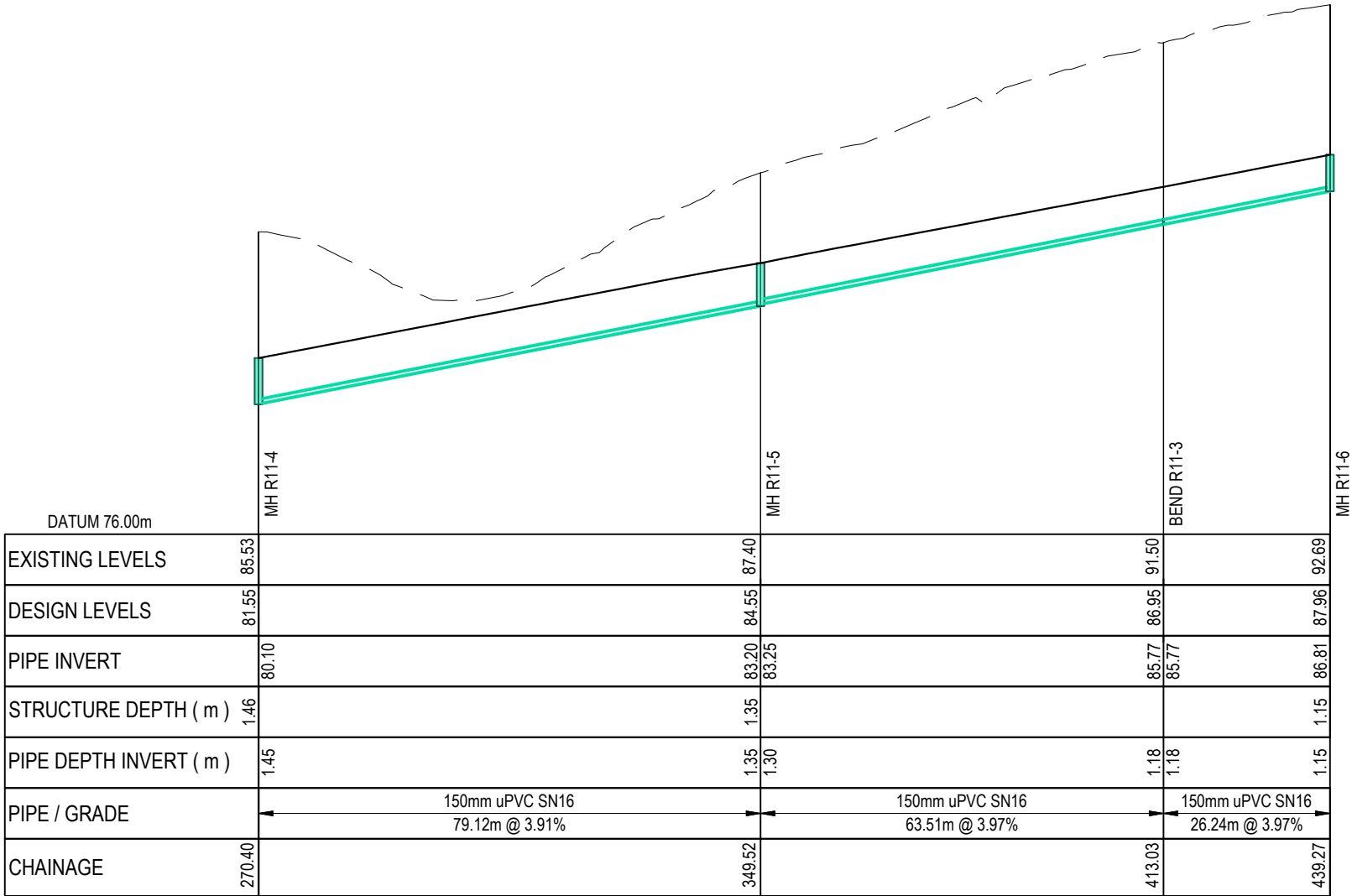
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-18	Rev	A

DATE: 4/30/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS ROOF.DWG

RESOURCE CONSENT



ROOF RUNOFF LINE R11.. CH 270.40 TO CH 439.27
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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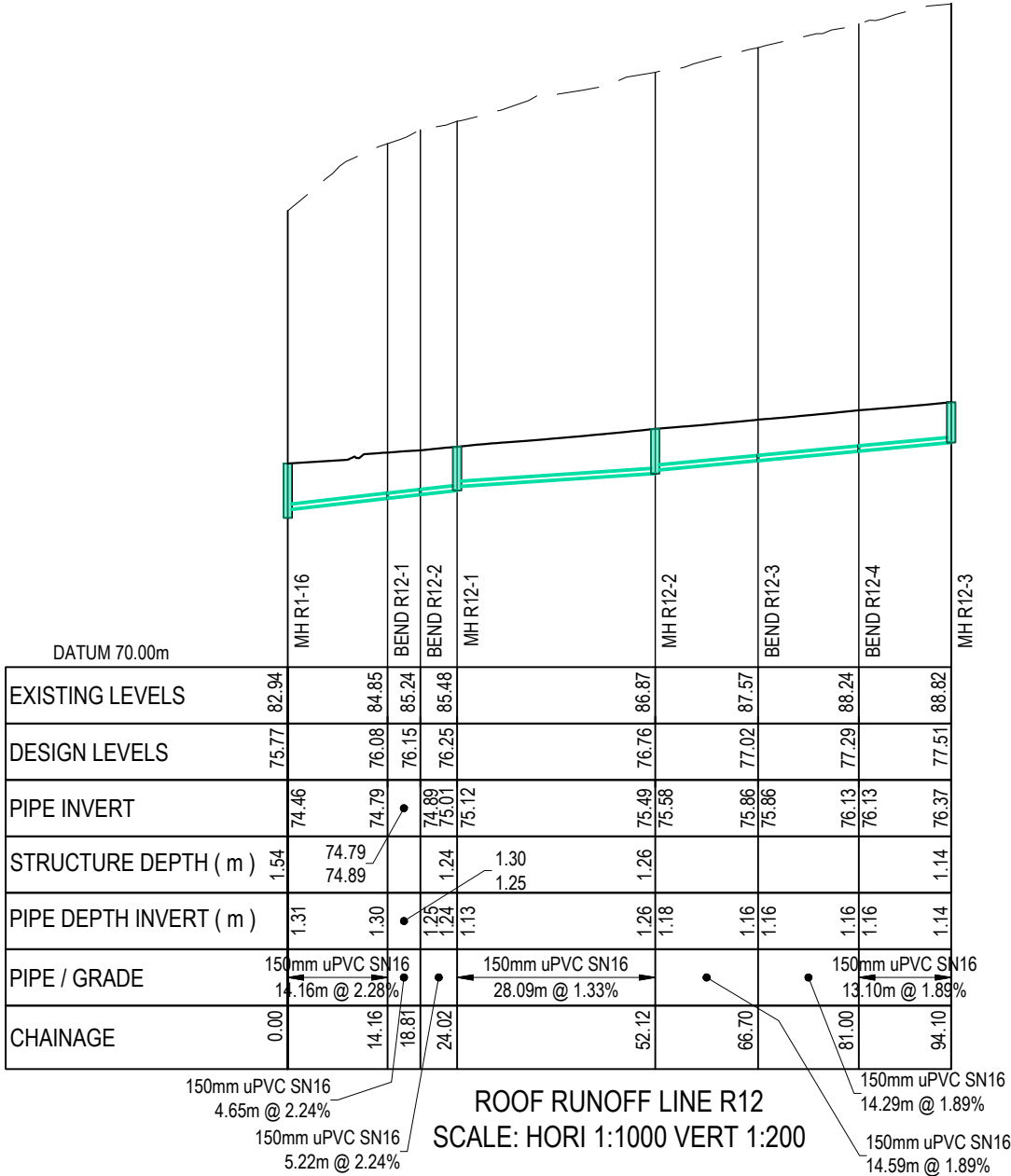
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS_ROOF.DWG		
Drawing no.	C421-19	Rev	A

DATE: 4/3/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C421 SW-LS-ROOF.DWG

RESOURCE CONSENT



LEGEND:
--- EX GROUND SURFACE
--- PR DESIGN SURFACE

A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	By	Date	
Survey	LIDAR	03/2022	
Design	AYC	03/2025	
Drawn	AYC	03/2025	
Checked	RW	03/2025	

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Project
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FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
STORMWATER LONG
SECTIONS - ROOF RUN OFF**

Project no.	147016		
Scale	1:1000 @ A3		
Cad file	147016-RV-C421 SW-LS-ROOF.DWG		
Drawing no.	C421-20	Rev	A