

EARTHWORKS OF UPGRADING EXISTING CULVERT1 TO BOX CULVERT TO BE CARRIED OUT DURING DRY WEATHER SEASON

PUMP UPSTREAM WATER AND DEWATER UNDER SUPERVISION OF THE PROJECT ECOLOGIST INCLUDING ANY FISH RELOCATION NEEDED.

REMOVE EXISTING CULVERT, UNDERCUT THE STREAMBED AND BACKFILL WITH GAP 65 AS DIRECTED, PREP STREAMBED FOR PLACEMENT OF NEW CULVERT, INSTALL RIPRAP. CLOTH ANY SIDES OF THE STREAM WHICH ARE EARTHWORKED, AS TO ENSURE NO SEDIMENT RISK

IN 2-YR OR ABOVE RAINFALL EVENT, DAMS TO BE REMOVED. STREAM STABILISED AND WORKS TO COMMENCE AFTER EVENT HAS PASSED. ALL STREAMWORKS TO BE DONE IN ACCORDANCE WITH THE MAVEN ASSOCIATES STREAM WORKS MANAGEMENT PLAN, AND UNDER ENGINEER'S SUPERVISION

COFFERDAM TO BE REMOVED AFTER CULVERT REPLACED. AND REINSTATE NORMAL FLOWS TO THE STREAM

FINAL METHODOLOGY SUBJECT TO CONTRACTOR INPUT AND FINAL STREAM WORK MANAGEMENT AS PER CONDITION OF CONSENT GRANTED

- 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.
 - THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
 - SEDIMENT CONTROL SHALL BE INSTALLED AND OPERATIONAL BEFORE EARTHWORKS START ONSITE IN ACCORDANCE WITH COUNCIL STANDARDS.
 - CONTRACTOR SHALL PROVIDE ASBUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECENT VOLUMES TO ENGINEER.
 - SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

- LEGEND
- EX BDY
 - PR BDY
 - EX MAJOR CONTOUR
 - EX MINOR CONTOUR
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR
 - PR EXTENT WORK
 - PR CLEANWATER
 - PR DIRTYWATER
 - PR SILT FENCE
 - PR SUPER SILT FENCE
 - PR STOCKPILE
 - PR DECANT
 - PR DECANT BAR
 - STAGE BOUNDARY
 - EX STREAM
 - EX WETLAND
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EARTHWORKS CATCHMENT AREA

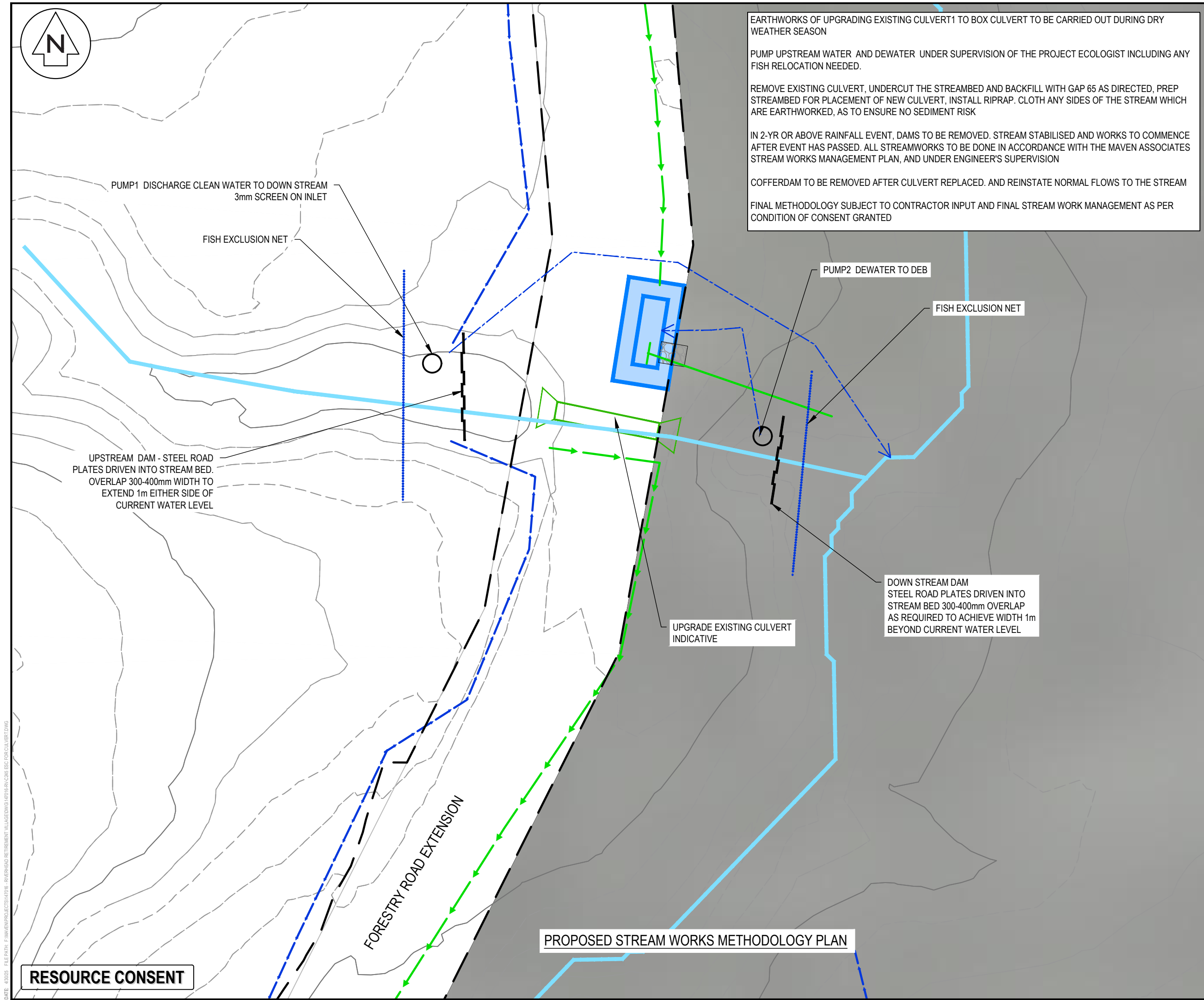
Rev	Description	By	Date
A	RESOURCE CONSENT	HN	03/2025
Survey	--	--	--
Design	HN		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025



Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE EROSION AND SEDIMENT CONTROL DETAILS

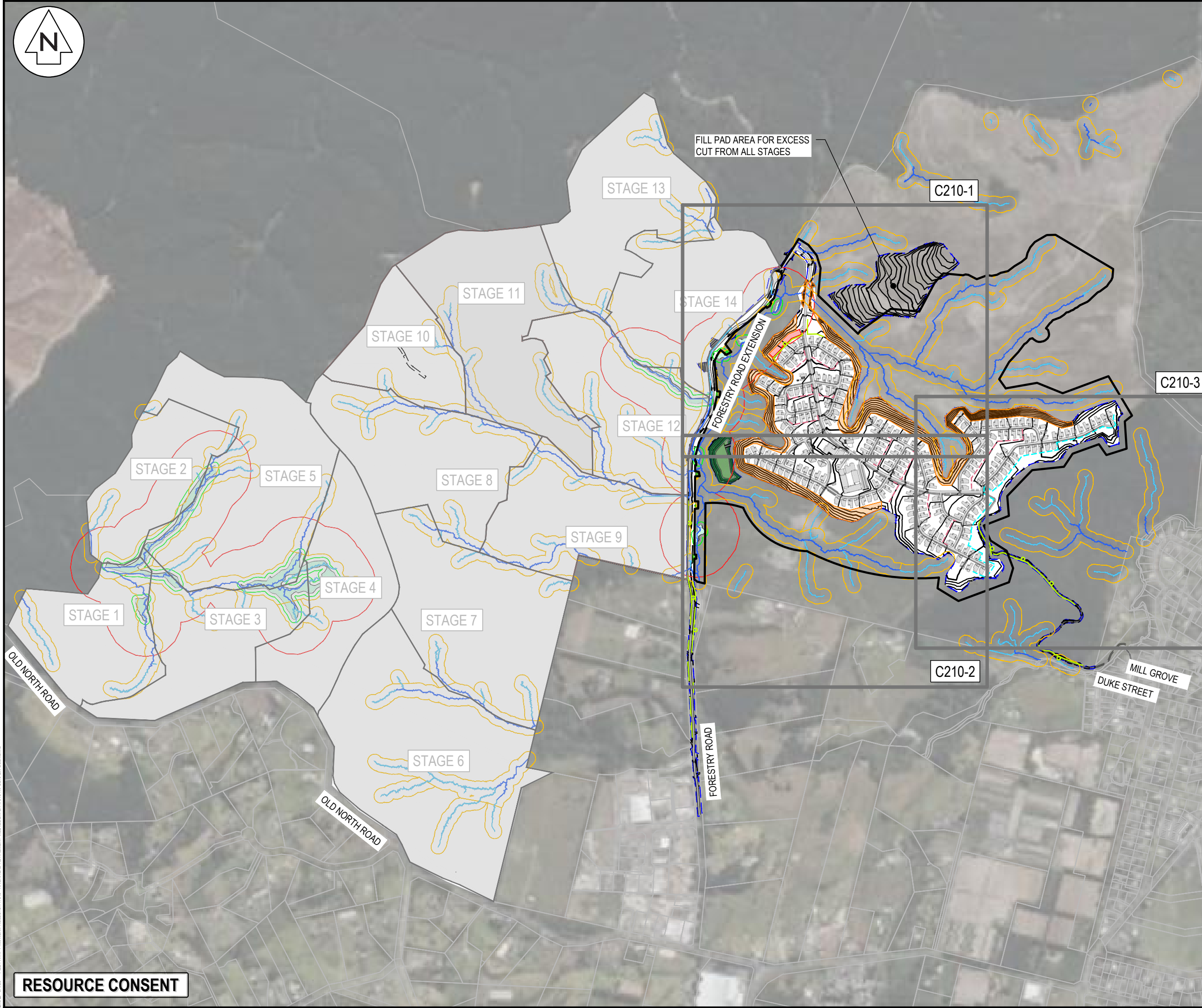
Project no.	147016
Scale	1:500 @ A3
Cad file	147016-RV-C245 ESC FOR CULVERT.DWG
Drawing no.	C245
Rev	A



DATE: 4/2025 FILEPATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C245 ESC FOR CULVERT.DWG

RESOURCE CONSENT

PROPOSED STREAM WORKS METHODOLOGY PLAN



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

	EX BDY
	PR BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PR EXTENT WORK
	RIPARIAN YARD 20m SETBACK
	WETLAND AREA 100m SETBACK
	WETLAND AREA 10m SETBACK
	EX STREAMS
	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
	PR IN-GROUND PALISADE WALL
	PR ENGINEERED EARTH WALL
	PR SW POND

A RESOURCE CONSENT			
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	MA		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 OVERVIEW EARTHWORKS PLAN

Project no.	147016
Scale	1:10,000 @ A3
Cad file	147016-RV-C210 EW BULK.DWG
Drawing no.	C210-0
Rev	A

RESOURCE CONSENT

DATE: 3/25 FILE PATH: F:\MVEN\PROJECTS\RDV\RDV - RIVERHEAD RETIREMENT VILLAGE\DWG\RDV-RV-C210 EW BULK.DWG



PAGE 14

WASTEWATER TREATMENT PLANT
DESIGNED BY GWE CONSULTING.
REFER TO THEIR REPORT AND
PLAN FOR DETAILS

FILL PAD AREA FOR EXCESS
CUT FROM ALL STAGES

RESOURCE CONSENT

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- PR ENGINEERED EARTH WALL
- PR SW POND

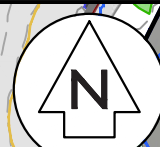
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A	RESOURCE CONSENT	SP	03/2025
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Project
**DEVELOPMENT OF
 RIVERHEAD FOREST
 FOR RANGITOOPUNI
 DEVELOPMENTS LIMITED
 PARTNERSHIP**

Title
**RETIREMENT VILLAGE
 PROPOSED
 EARTHWORKS PLAN**

Project no.	147016
Scale	1:2500 @ A3
Cad file	147016-RV-C210 EW BULK.DWG
Drawing no.	C210-1
Rev	A



- NOTES
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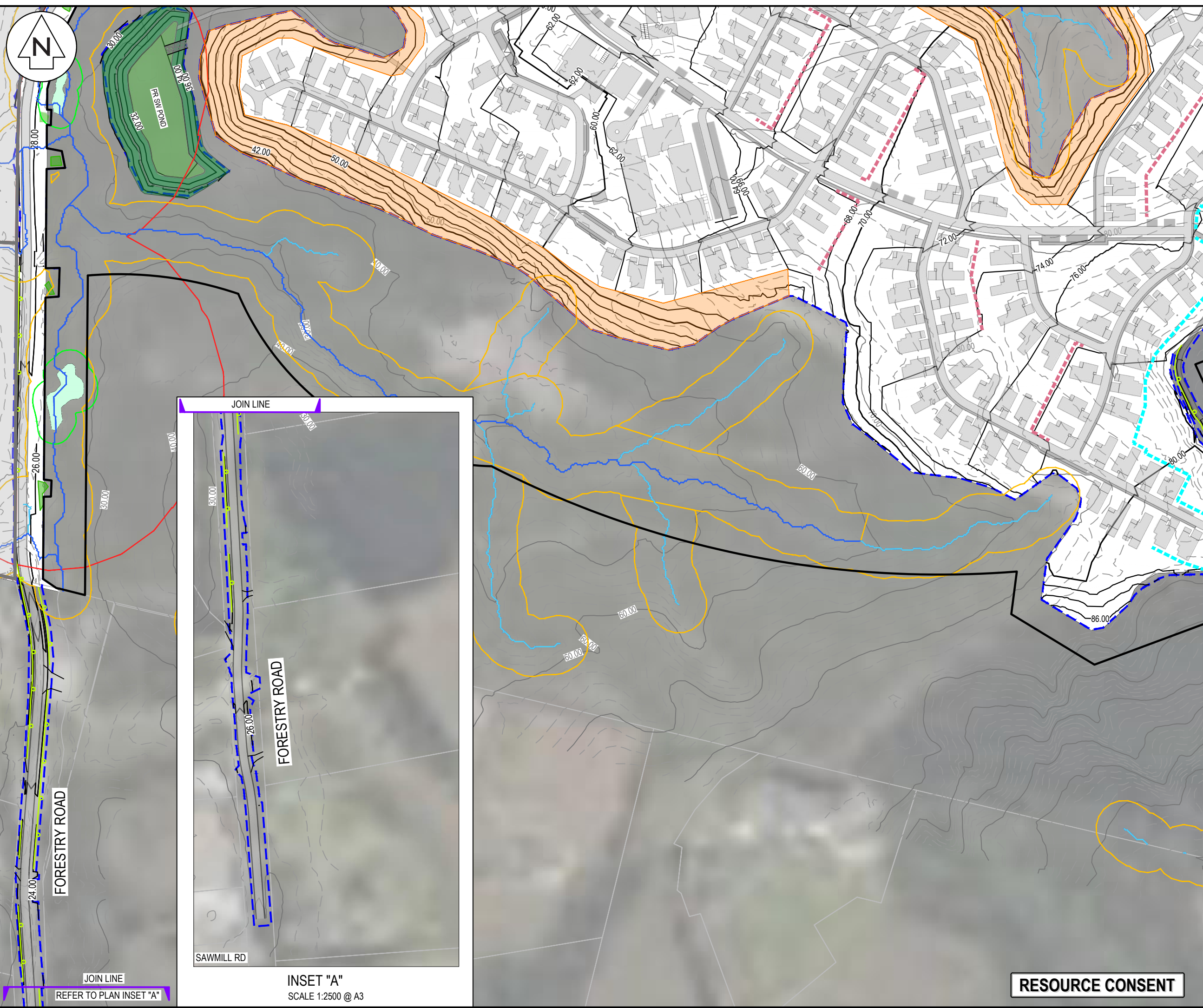
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A	RESOURCE CONSENT	SP	03/2025

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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED EARTHWORKS PLAN

Project no.	147016
Scale	1:2500 @ A3
Cad file	147016-RV-C210 EW BULK.DWG
Drawing no.	C210-2
Rev	A

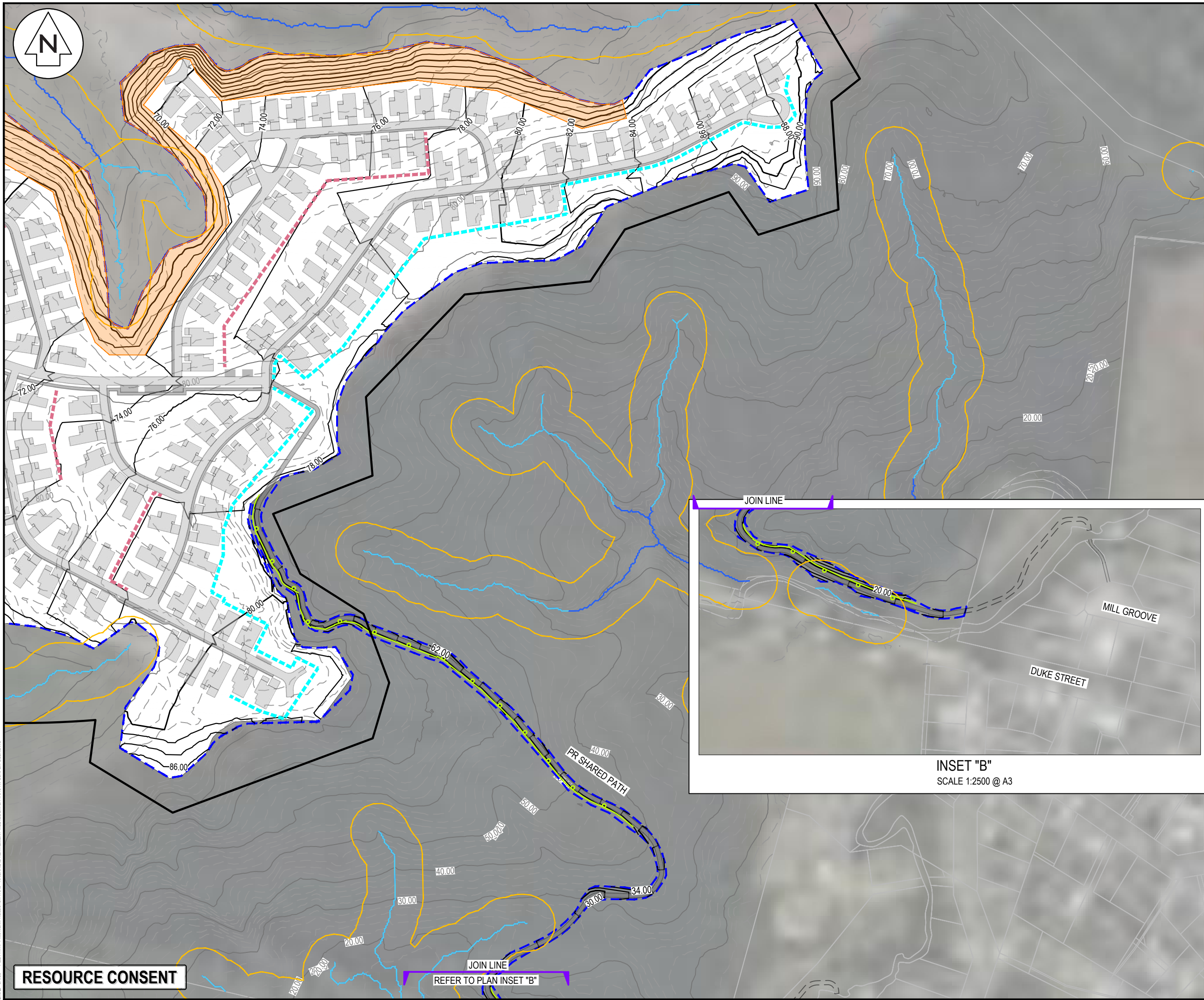


INSET "A"
 SCALE 1:2500 @ A3

RESOURCE CONSENT

DATE: 3/25; FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C210 BY: BILKONG

JOIN LINE
 REFER TO PLAN INSET "A"



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	PR BDY
	EX MAJOR CONTOUR
	EX MINOR CONTOUR
	PR MAJOR CONTOUR
	PR MINOR CONTOUR
	PR EXTENT WORK
	RIPARIAN YARD 20m SETBACK
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	EX STREAMS
	PR RET. WALL > 1.0m
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	PR IN-GROUND PALISADE WALL
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	PR SW POND

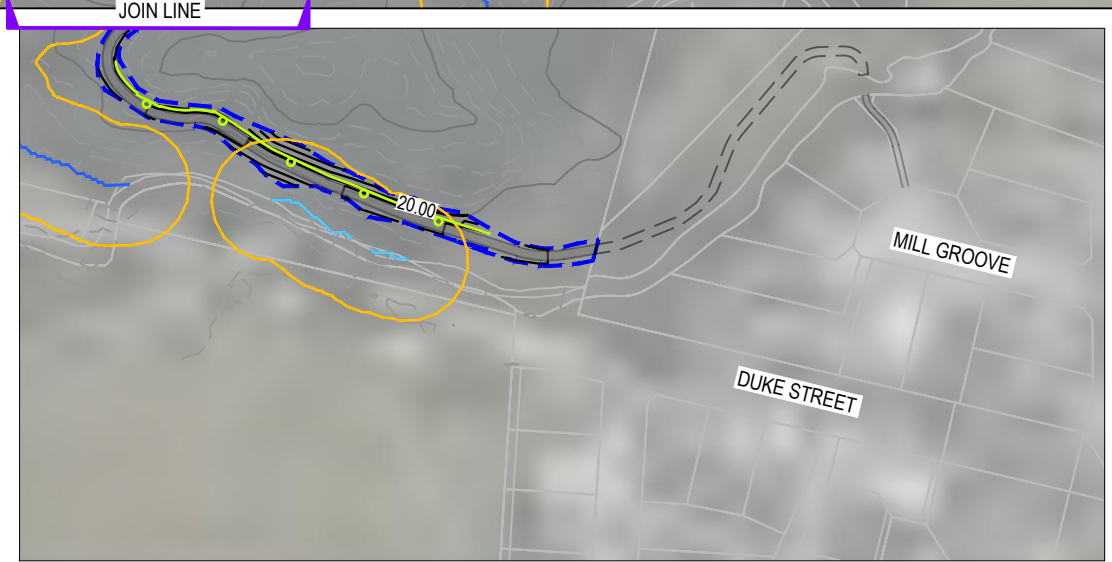
A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	MA		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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Project
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Title
RETIREMENT VILLAGE PROPOSED EARTHWORKS PLAN

Project no.	147016
Scale	1:2500 @ A3
Cad file	147016-RV-C210 EW BULK.DWG
Drawing no.	C210-3
Rev	A



INSET "B"
 SCALE 1:2500 @ A3

RESOURCE CONSENT

JOIN LINE
 REFER TO PLAN INSET "B"

DATE: 3/25 FILE PATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C210 BY: BILKING



BULK EARTH WORKS (SURFACE PGL RV COMPARISON WITH SURFACE EGL)

CUT VOLUME 547,480 m³
 FILL VOLUME 731,880 m³
 NET FILL 184,400 m³

TOPSOIL STRIPPED (350mm) 140,920 m³
 EARTHWORKS AREA 402,630m²

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES, VOLUMES ARE INCLUDE 10% AND IN SITU

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 7. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

CUT/FILL			
No.	ELEVATION (min.)	ELEVATION (max.)	COLOUR
1	-14.000	-12.000	Dark Red
2	-12.000	-10.000	Red
3	-10.000	-8.000	Brown
4	-8.000	-6.000	Dark Green
5	-6.000	-4.000	Green
6	-4.000	-2.000	Light Green
7	-2.000	0.000	Yellow-Green
8	0.000	2.000	Yellow
9	2.000	4.000	Light Yellow
10	4.000	6.000	Yellow-Orange
11	6.000	8.000	Orange
12	8.000	10.000	Dark Orange

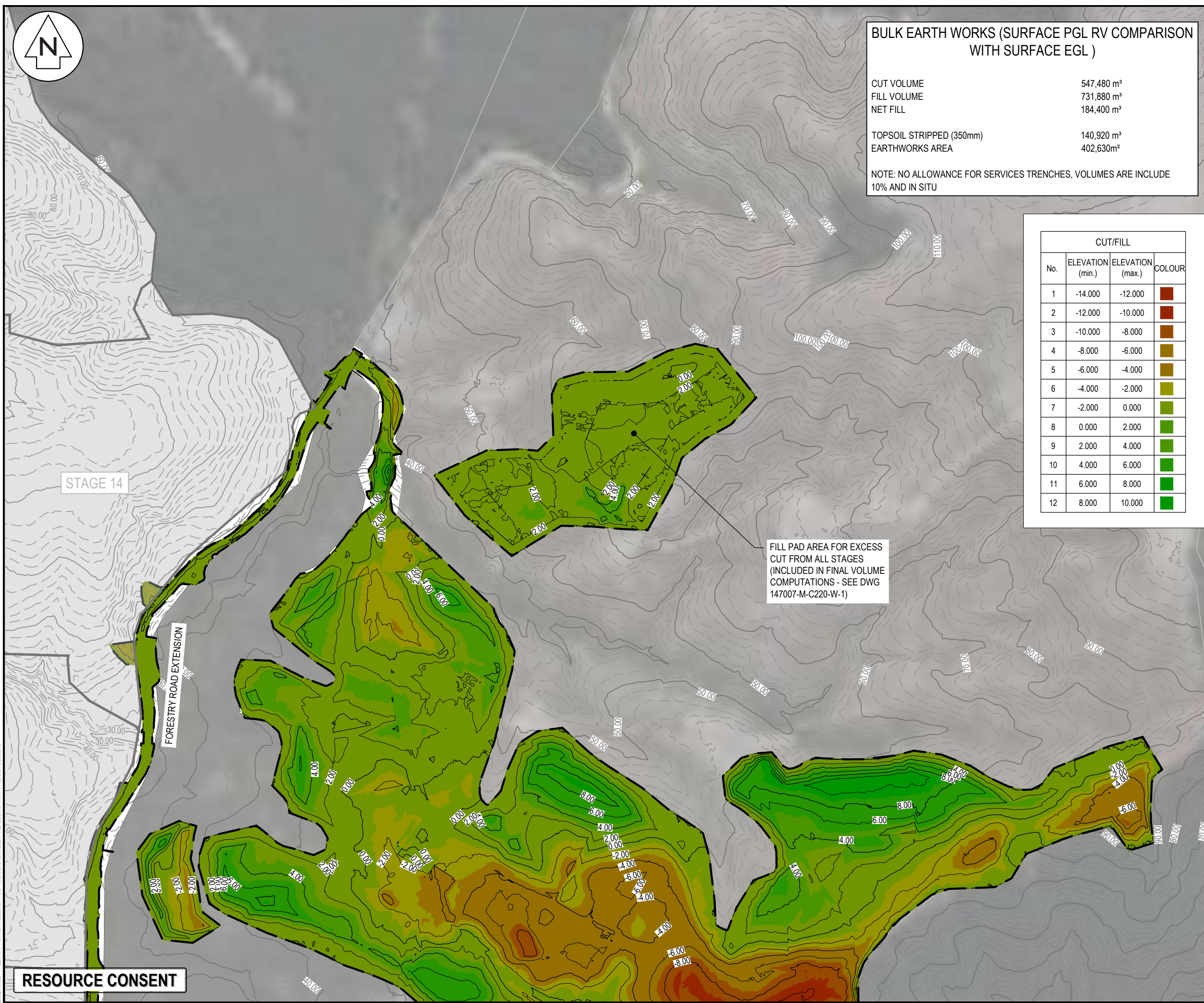
- LEGEND
- EX BDY
 - PR BDY
 - EX MAJOR CONTOUR
 - EX MINOR CONTOUR
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR
 - PR EXTENT WORK
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS
 - PR RET. WALL > 1.0m
 - PR LANDSCAPE RET. WALL < 1.0m
 - PR IN-GROUND PALISADE WALL
 - PR ENGINEERED EARTH WALL
 - PR SW POND

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

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED CUT/FILL PLAN

Project no.	147016
Scale	1:4000 @ A3
Cad file	147016-RV-C210 EW BULK.DWG
Drawing no.	C220-1
Rev	A



RESOURCE CONSENT

DATE: 3/25 FILE PATH: F:\Maven\Projects\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C220-1.DWG



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- LEGEND**
- EX BDY
 - PR BDY
 - EX MAJOR CONTOUR
 - EX MINOR CONTOUR
 - PR MAJOR CONTOUR
 - PR MINOR CONTOUR
 - PR EXTENT WORK
 - RIPARIAN YARD 20m SETBACK
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Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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Design	MA		03/2025
Drawn	SP		03/2025
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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED CUT/FILL PLAN

Project no.	147016
Scale	1:4000 @ A3
Cad file	147016-RV-C210 EW BULK.DWG
Drawing no.	C220-2
Rev	A

CUT/FILL			
No.	ELEVATION (min.)	ELEVATION (max.)	COLOUR
1	-14.000	-12.000	Dark Red
2	-12.000	-10.000	Red
3	-10.000	-8.000	Dark Orange
4	-8.000	-6.000	Orange
5	-6.000	-4.000	Light Orange
6	-4.000	-2.000	Yellow-Orange
7	-2.000	0.000	Yellow
8	0.000	2.000	Light Green
9	2.000	4.000	Green
10	4.000	6.000	Light Green
11	6.000	8.000	Green
12	8.000	10.000	Dark Green

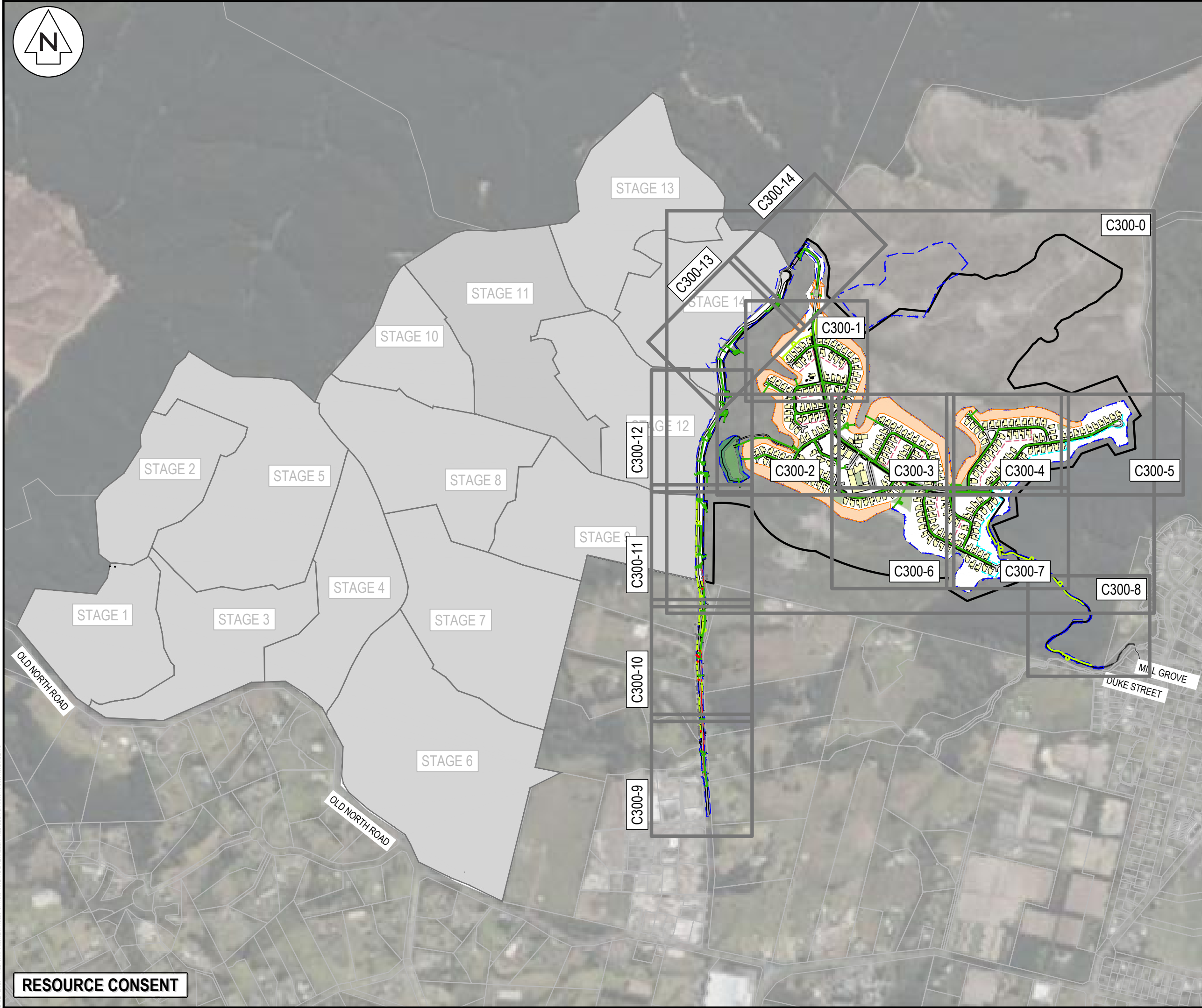
BULK EARTH WORKS (SURFACE PGL RV COMPARISON WITH SURFACE EGL)

CUT VOLUME	547,480 m ³
FILL VOLUME	731,880 m ³
NET FILL	184,400 m ³
TOPSOIL STRIPPED (350mm)	140,920 m ³
EARTHWORKS AREA	402,630m ²

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES, VOLUMES ARE INCLUDE 10% AND IN SITU

RESOURCE CONSENT

DATE: 3/25 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C210 EW BULK.DWG



- 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.
 4. ALL DUCTS SHALL HAVE LOCATIONS MARKED ON KERB LINES IN ACCORDANCE WITH SPECIFICATION.
 5. PRAM CROSSINGS ARE TO BE FLUSH TO THE CHANNEL WITH NO LIP.
 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.
 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

	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
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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

RESOURCE CONSENT

DATE: 2025 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG



STAGE 14

FORESTRY ROAD EXTENSION

PR SW POND

PR 3.0m WIDE SHARED PATH

RESOURCE CONSENT

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	EXTENT OF WORK
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	PR BDY
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	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

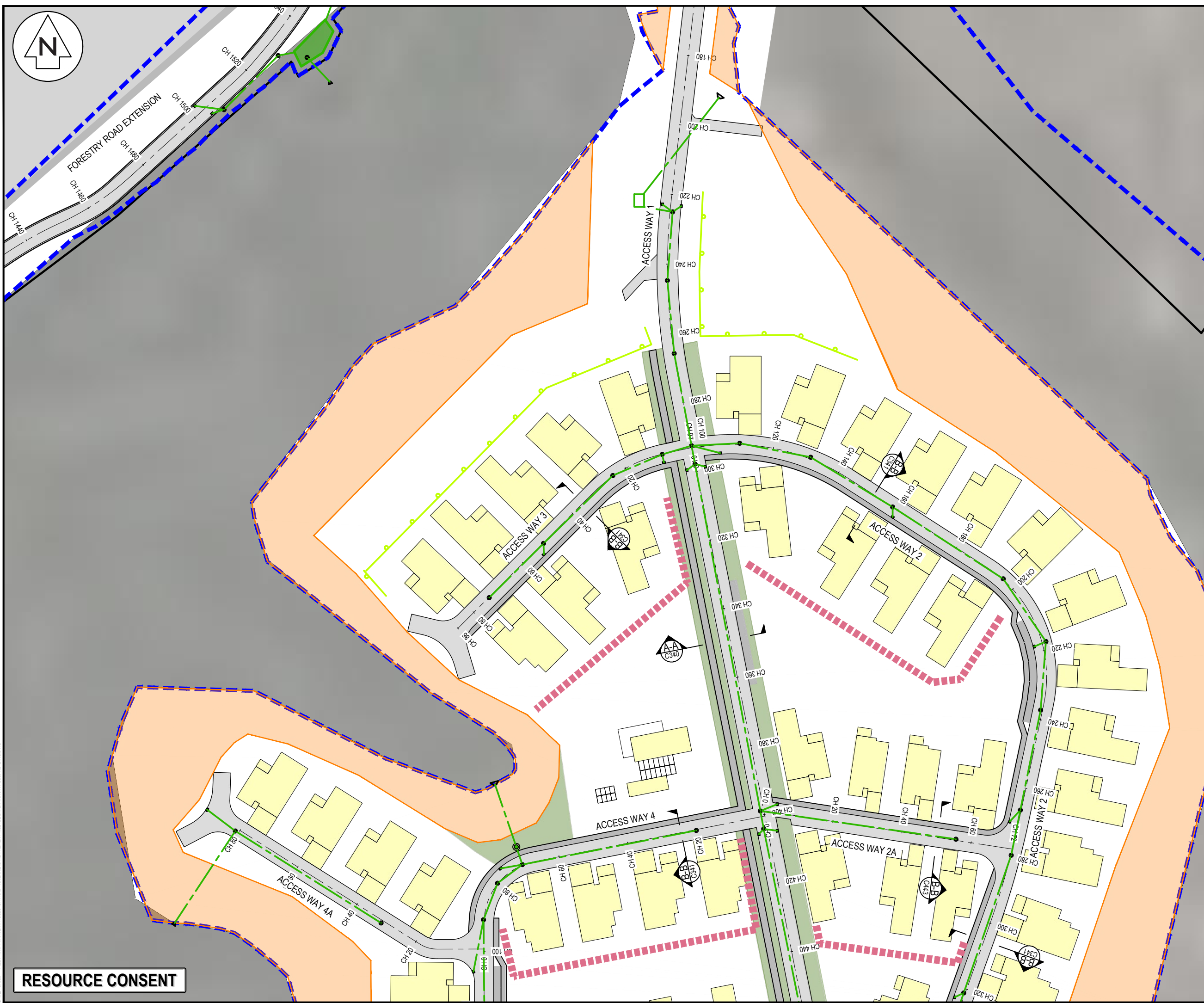
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
PROPOSED
ROADING PLAN**

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

DATE: 3/25 5:05 PM FILE PATH: F:\MVEN\PROJECTS\RD\RV - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG



- 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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 5. PRAM CROSSINGS ARE TO BE FLUSH TO THE CHANNEL WITH NO LIP.
 6. ALL KERB AND CHANNEL TO HAVE SAW CUTS AT MAX 3m CENTRES. ALL SAW CUTS TO COINCIDE WITH FOOTPATH JOINTS.
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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

	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

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

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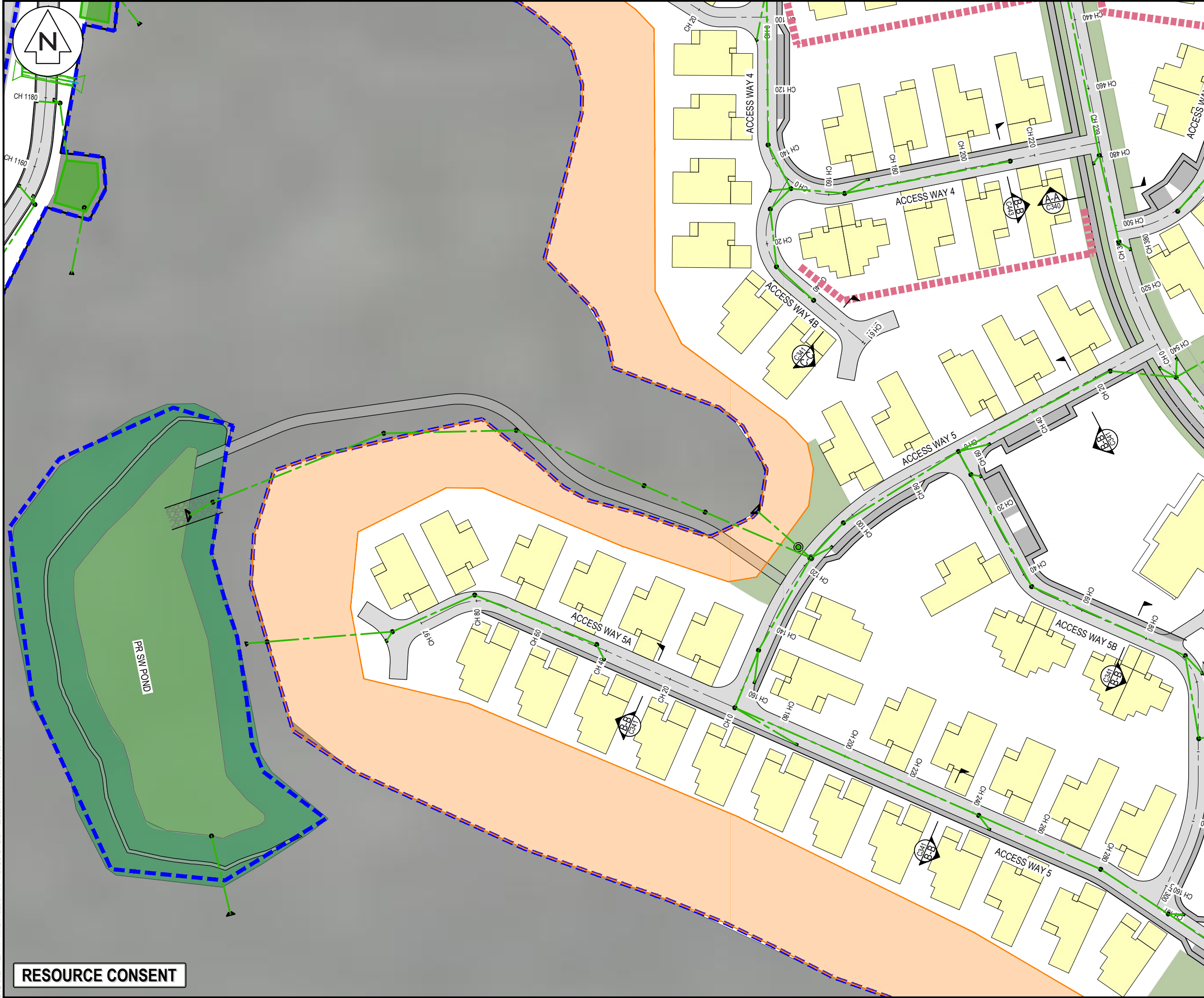
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROADING PLAN

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

RESOURCE CONSENT

DATE: 3/25 FILE: F:\MVEN\PROJECTS\RD\147016-RV-C300 ROADING.DWG



- NOTES
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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
	Survey	LiDAR	03/2022
	Design	IZ	03/2025
	Drawn	SP	03/2025
	Checked	RW/KH	03/2025

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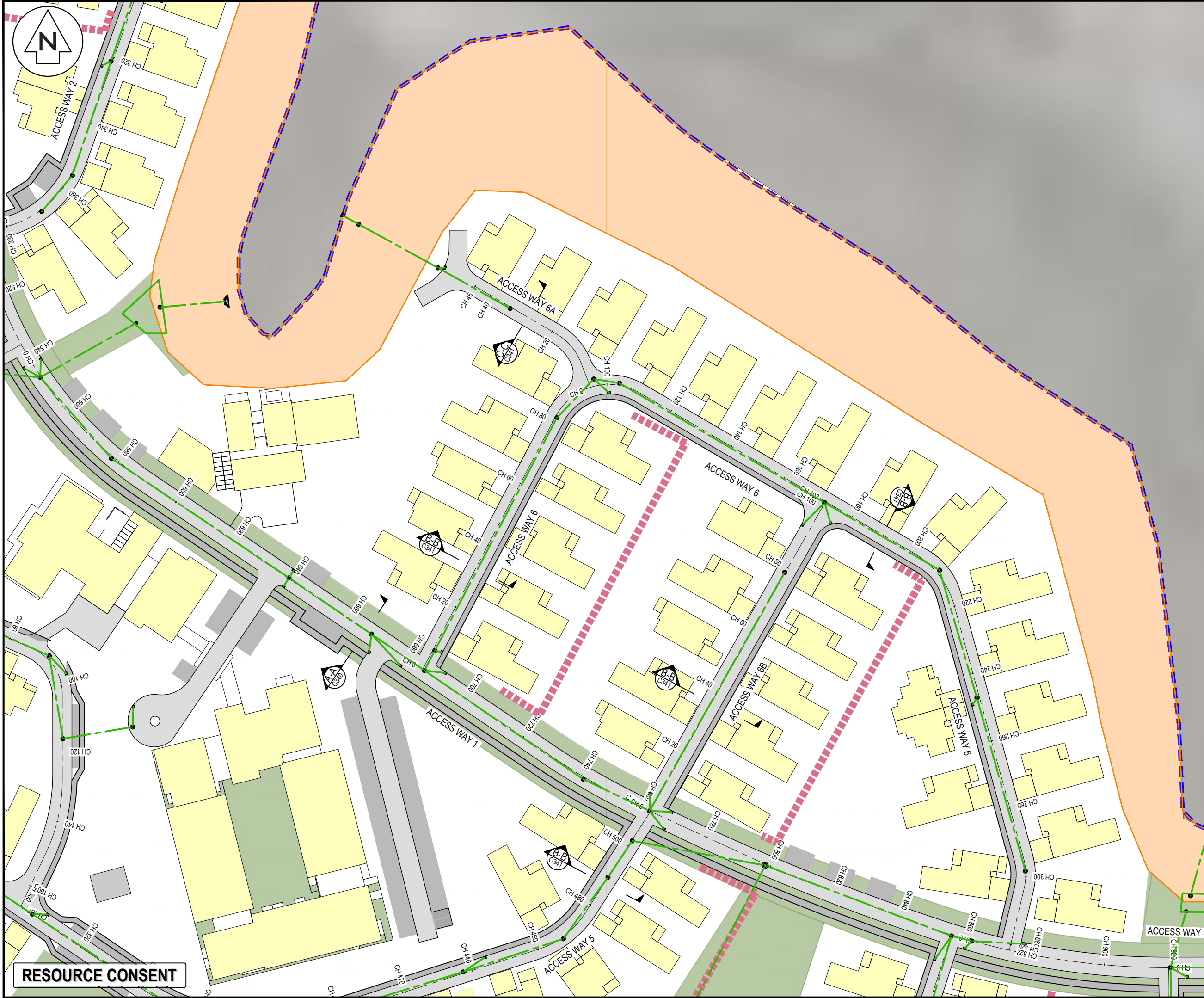
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED RAODING PLAN

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

RESOURCE CONSENT

DATE: 03/25 FILE PATH: F:\MVEN\PROJECTS\401616 - RIVERHEAD RETIREMENT VILLAGE\DWG\401616-RV-C300 ROADING.DWG



- NOTES
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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
	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.	C300-3
Rev	A

RESOURCE CONSENT

DATE: 3/25 FILE PATH: F:\MVEN\PROJECTS\RD\147016-RV-C300 ROADING.DWG



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LEGEND

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	PR CARRIAGEWAY
	PR BERMLANDSCAPE
	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
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	PR ENG. EARTH WALL
	PR SW POND
	PR BUILDING

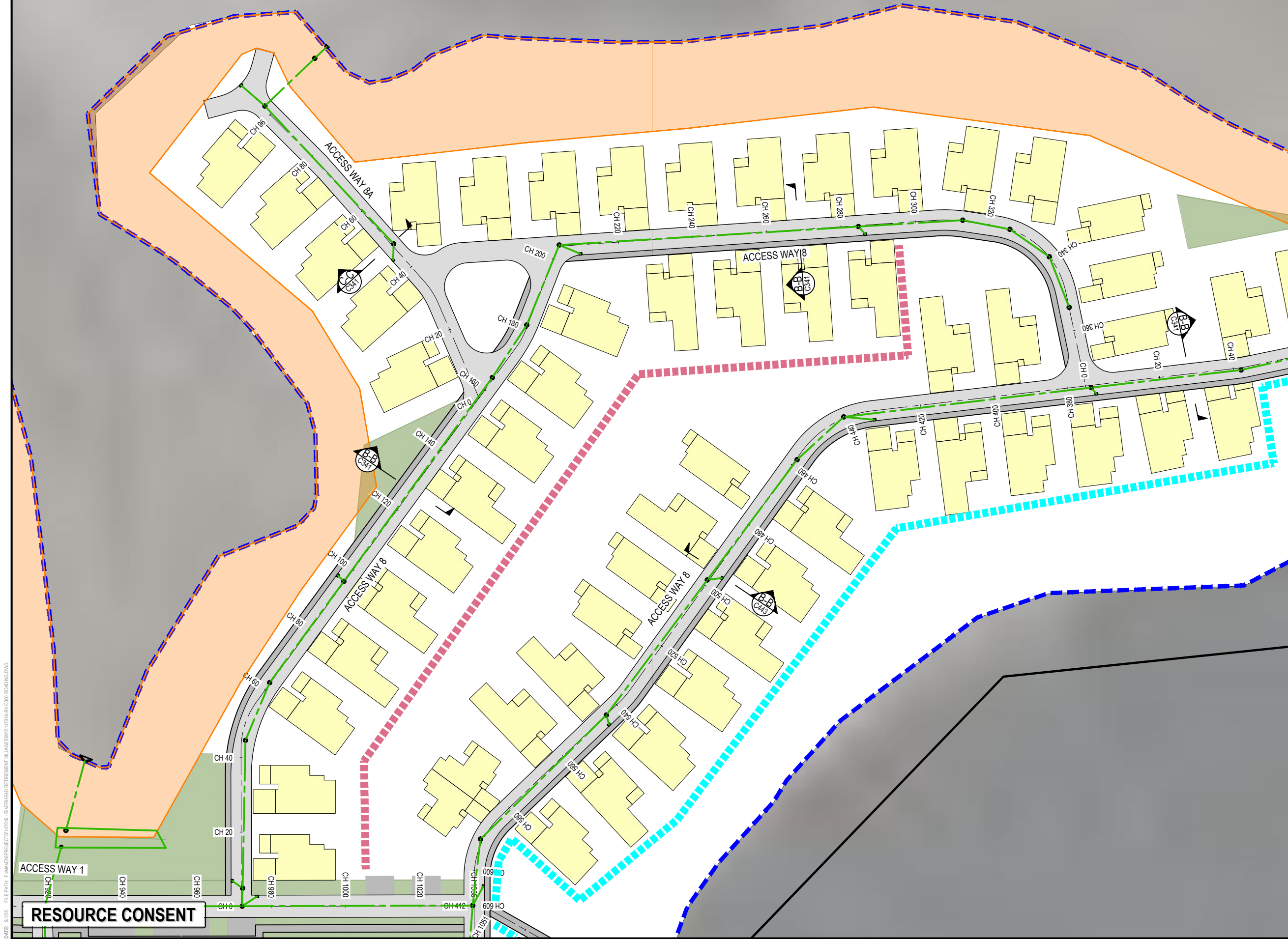
A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	Survey	LiDAR	03/2022
	Design	IZ	03/2025
	Drawn	SP	03/2025
	Checked	RW/KH	03/2025

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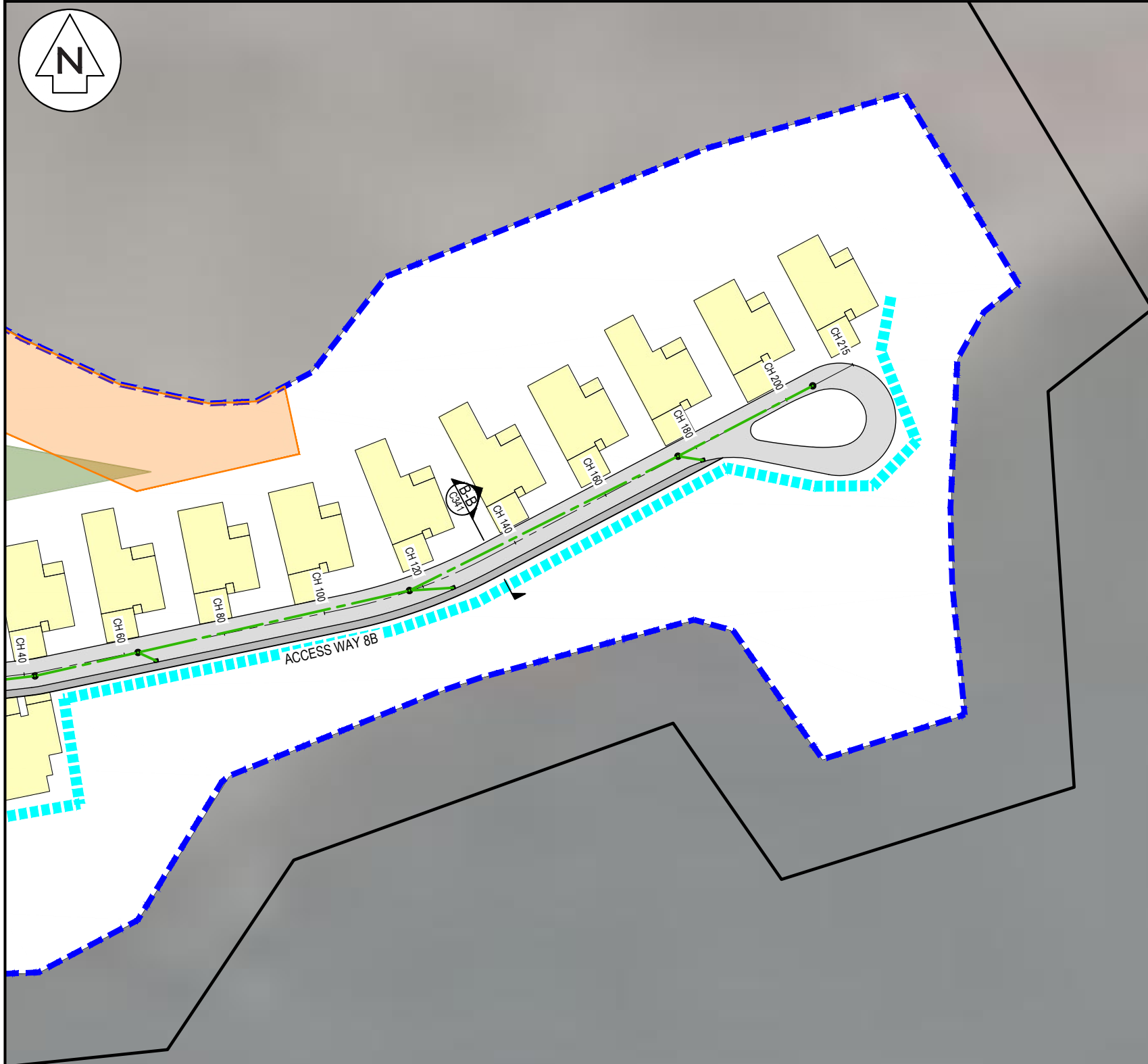
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROADING PLAN

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



DATE: 03/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 - ROADING.DWG



- NOTES**
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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

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

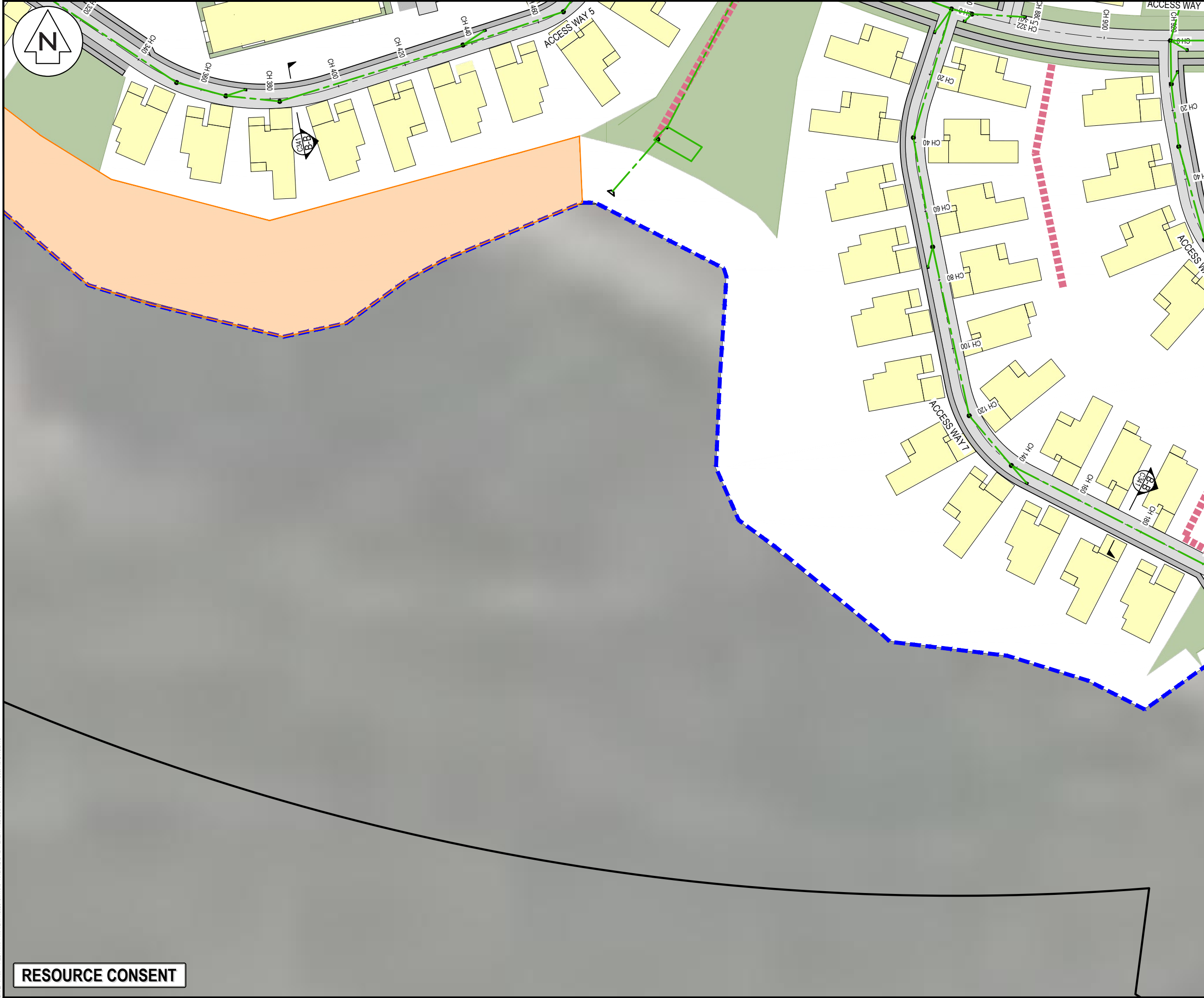
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE 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

DATE: 3/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG



- NOTES
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LEGEND

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	PR BERMLANDSCAPE
	PR RET. WALL > 1.0m
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	PR IN-GROUND PALISADE WALL
	PR ENG. EARTH WALL
	PR SW POND
	PR BUILDING

Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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.	C300-6
Rev	A

RESOURCE CONSENT

DATE: 3/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG



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LEGEND

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A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	Survey	LiDAR	03/2022
	Design	IZ	03/2025
	Drawn	SP	03/2025
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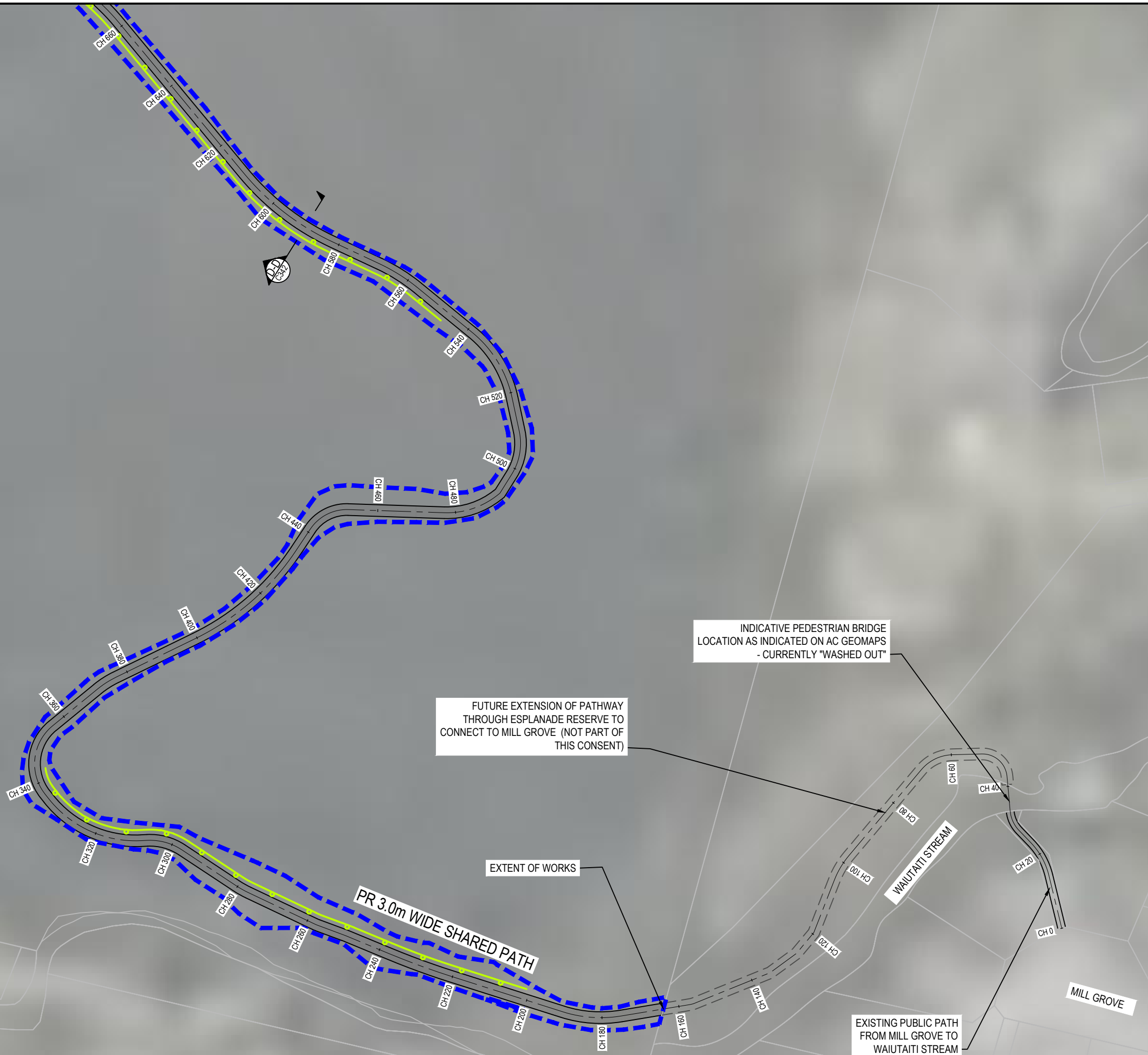
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROADING PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-7
Rev	A

RESOURCE CONSENT

DATE: 3/25 FILE PATH: F:\MVEN\PROJECTS\RD\147016-RV-C300 ROADING.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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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
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Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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 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

DATE: 3/25; FILE PATH: F:\MVEN\PROJECTS\RD1018 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG



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

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

FORESTRY ROAD

EX TREE DRIP LINE

50 FORESTRY ROAD
LOT 6 DP 60666

64 FORESTRY ROAD
LOT 7 DP 60666

PROP ROAD UPGRADE TIE INTO
EXISTING ROAD FORMATION

EDGE OF PROP ROAD

EDGE OF EXISTING ROAD

44 FORESTRY ROAD
LOT 5 DP 60666

- NOTES
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- LEGEND
- Extent of Work (Blue dashed line)
 - EX BDY (Black solid line)
 - PR BDY (Black solid line)
 - PR SWCP DOUBLE/SINGLE (Black dashed line)
 - PR CARRIAGEWAY (Grey shaded area)
 - PR BERMLANDSCAPE (Green shaded area)
 - PR RET. WALL > 1.0m (Red dashed line)
 - PR LANDSCAPE RET. WALL < 1.0m (Red dashed line)
 - PR IN-GROUND PALISADE WALL (Cyan dashed line)
 - PR ENG. EARTH WALL (Orange shaded area)
 - PR SW POND (Green shaded area)
 - PR BUILDING (Yellow shaded area)

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	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.	C300-9
Rev	A

RESOURCE CONSENT

DATE: 3/25 FILE PATH: F:\Maven\Projects\RD18 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG

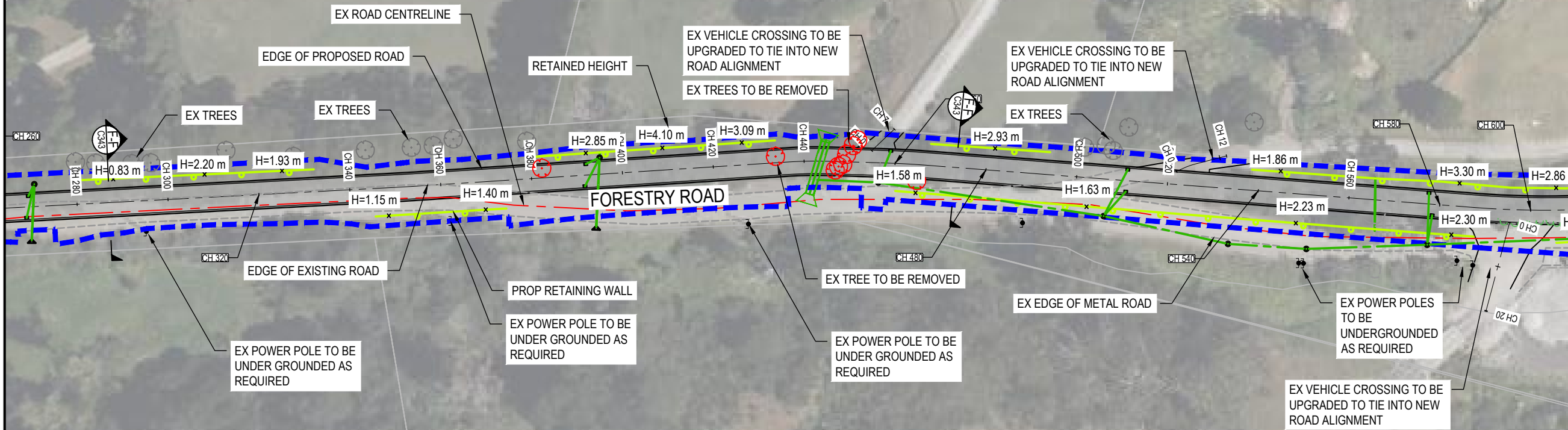


63 FORESTRY ROAD
LOT 1 DP 329465, LOT
3 DP 64224

85 FORESTRY ROAD
LOT 2 DP 64224

93 FORESTRY ROAD
LOT 1 DP 64224

100 FORESTRY ROAD
LOT 8 DP 60666



- 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.
 4. ALL DUCTS SHALL HAVE LOCATIONS MARKED ON KERB LINES IN ACCORDANCE WITH SPECIFICATION.
 5. PRAM CROSSINGS ARE TO BE FLUSH TO THE CHANNEL WITH NO LIP.
 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 ATCP 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.
 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

	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 FORESTRY ROAD EXTENSION PLAN

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

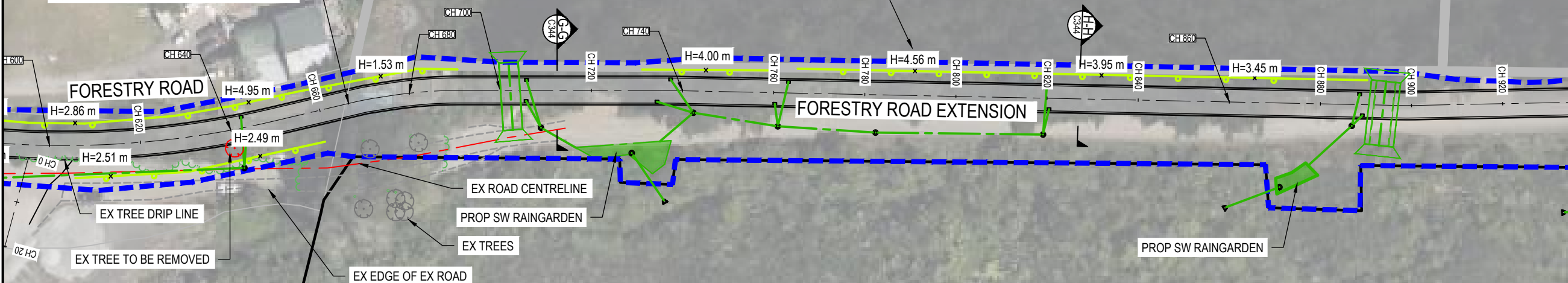
RESOURCE CONSENT

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



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

RETAINED HEIGHT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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- LEGEND
- EXTENT OF WORK (Dashed blue line)
 - EX BDY (Solid black line)
 - PR BDY (Dashed black line)
 - PR SWCP DOUBLE/SINGLE (Hatched pattern)
 - PR CARRIAGEWAY (Grey fill)
 - PR BERMLANDSCAPE (Green fill)
 - PR RET. WALL > 1.0m (Red dashed line)
 - PR LANDSCAPE RET. WALL < 1.0m (Red dashed line)
 - PR IN-GROUND PALISADE WALL (Cyan dashed line)
 - PR ENG. EARTH WALL (Orange fill)
 - PR SW POND (Green fill)
 - PR BUILDING (Yellow fill)

Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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.	C300-11
Rev	A

RESOURCE CONSENT



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

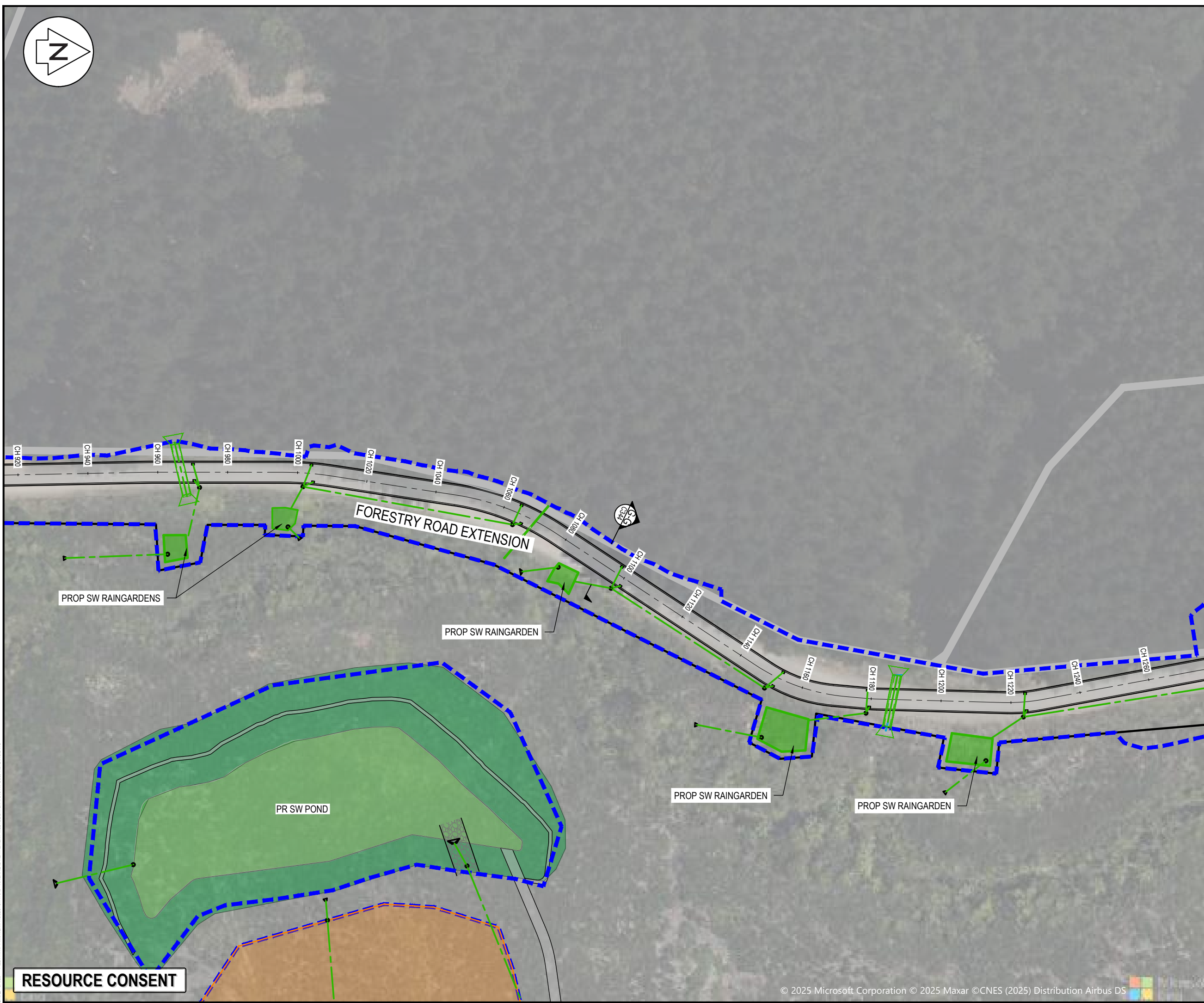
	EXTENT OF WORK
	EX BDY
	PR BDY
	PR SWCP DOUBLE/SINGLE
	PR CARRIAGEWAY
	PR BERMLANDSCAPE
	PR RET. WALL > 1.0m
	PR LANDSCAPE RET. WALL < 1.0m
	PR IN-GROUND PALISADE WALL
	PR ENG. EARTH WALL
	PR SW POND
	PR BUILDING

A RESOURCE CONSENT			
Rev	Description	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.	C300-12
Rev	A



DATE: 3/25; FILE PATH: F:\Maven\PROJECTS\RD18 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C300 ROADING.DWG



- NOTES
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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
	Survey	LiDAR	03/2022
	Design	IZ	03/2025
	Drawn	SP	03/2025
	Checked	RW/KH	03/2025

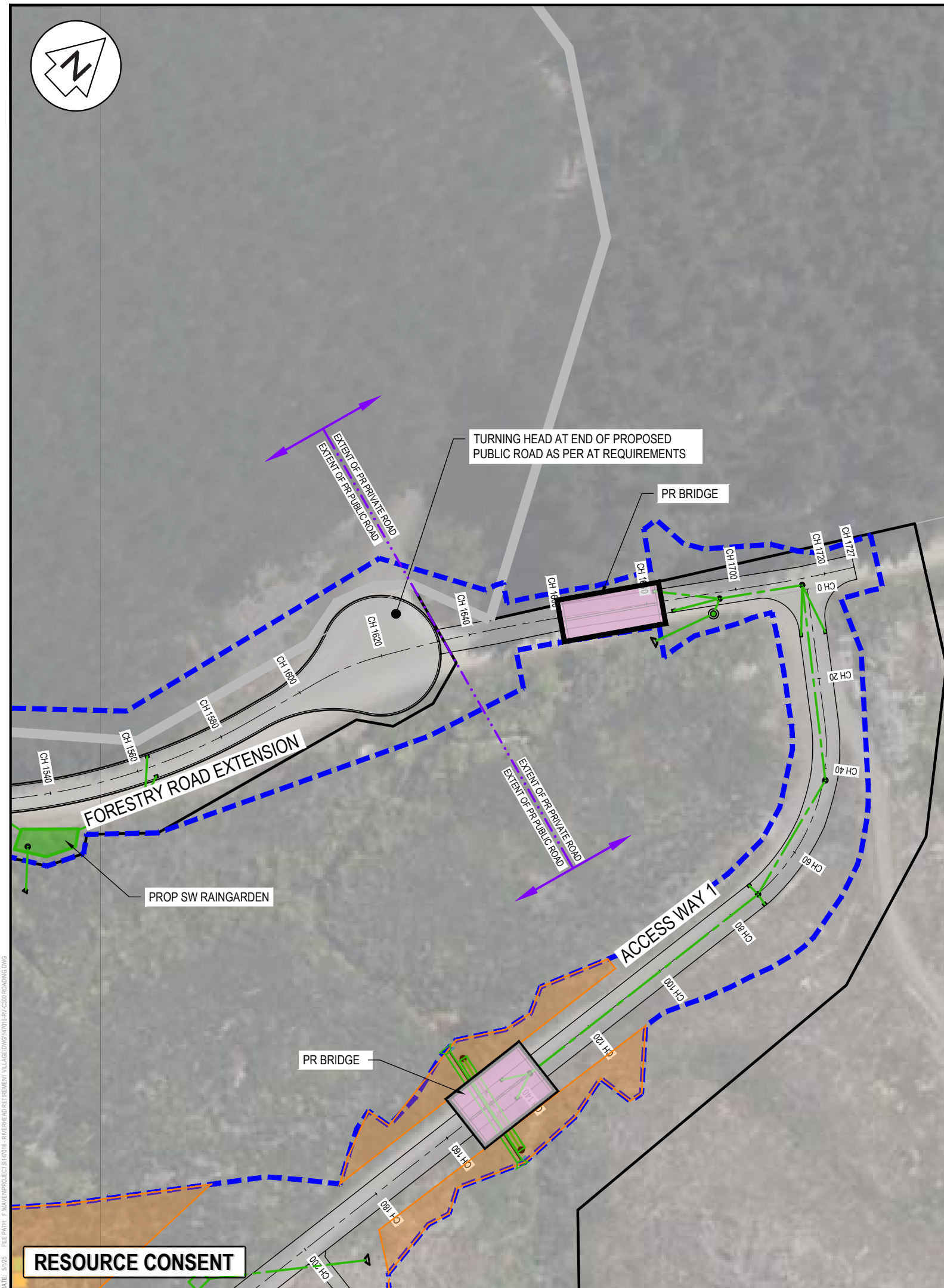
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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE FORESTRY ROAD EXTENSION PLAN

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

DATE: 3/25; 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

	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

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

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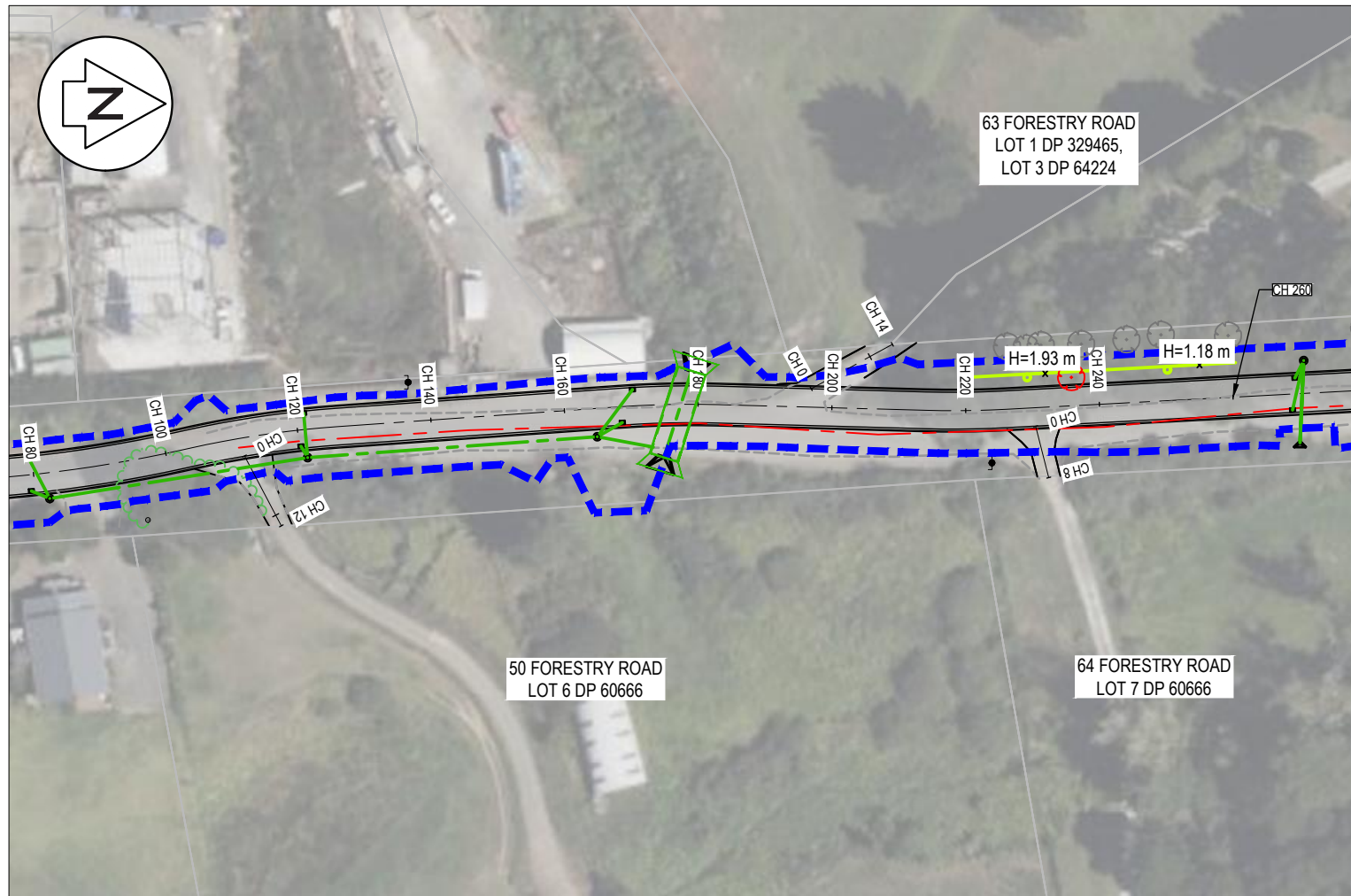
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

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

RESOURCE CONSENT

DATE: 5/10/25 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

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

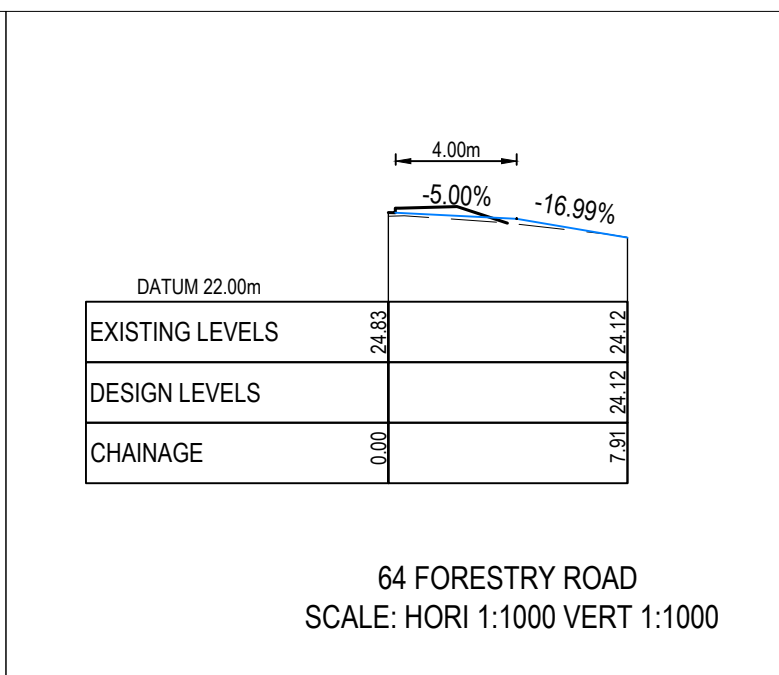
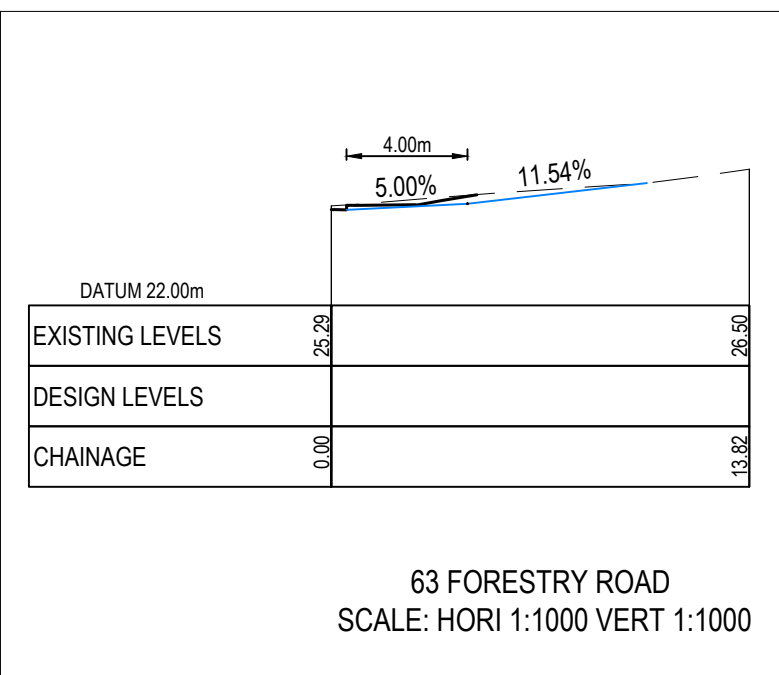
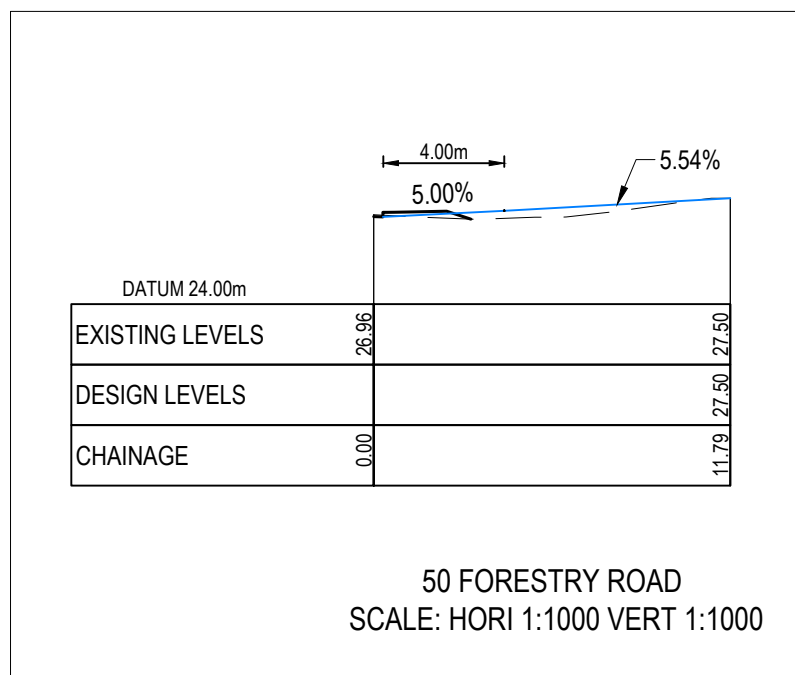
Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
Survey	LiDAR		03/2022
Design	IZ		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

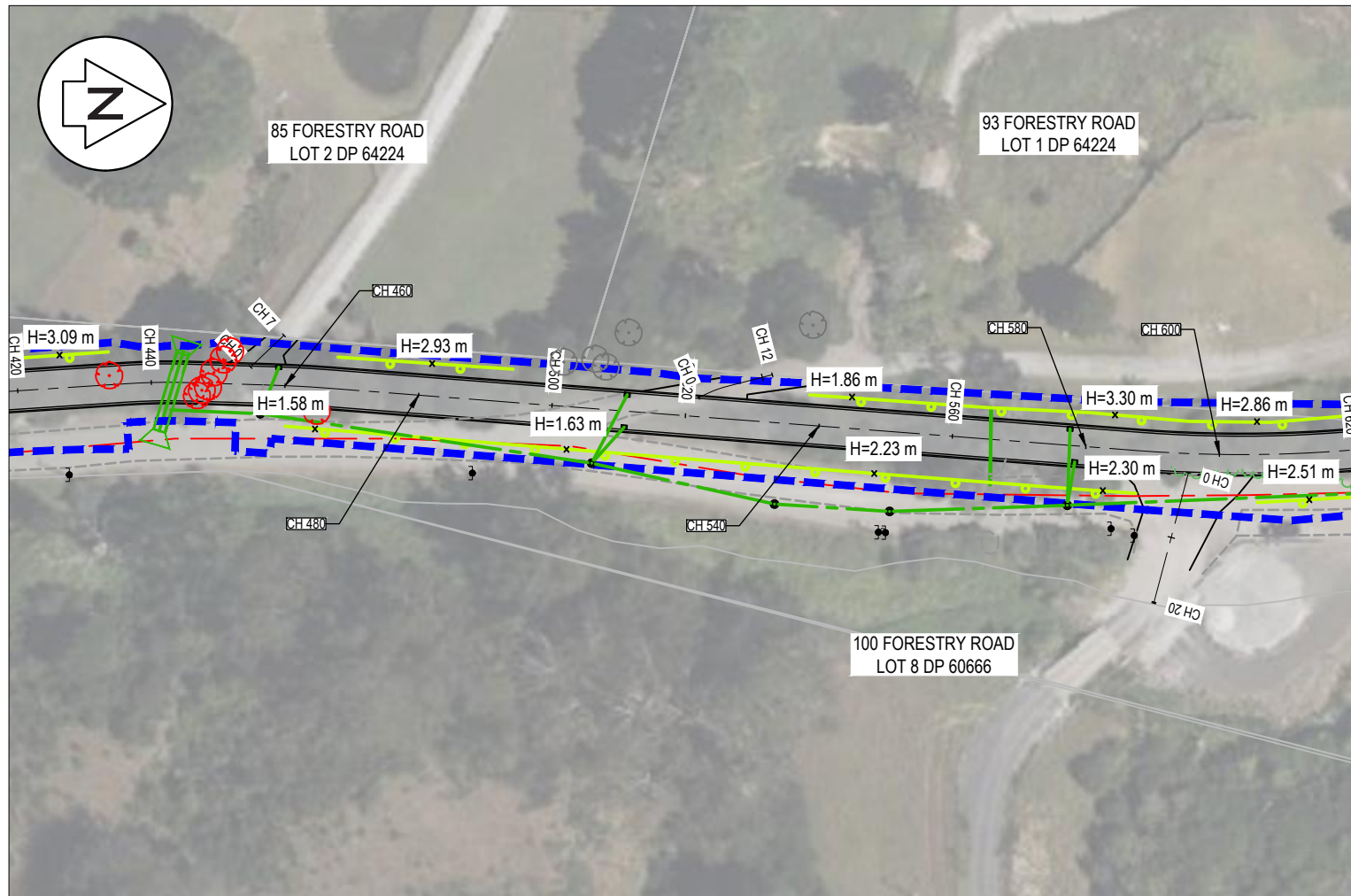
Title
RETIREMENT VILLAGE FORESTRY ROAD VEHICLE CROSSINGS

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



RESOURCE CONSENT

DATE: 5/25 FILEPATH: F:\MVEN\PROJECTS\RD\147016-RV-C300 ROADING.DWG RIVERHEAD RETIREMENT VILLAGE.DWG



- 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

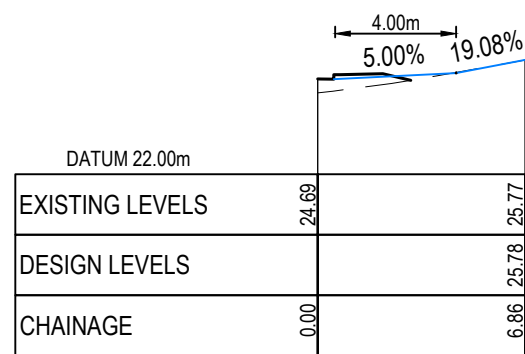
Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
Survey	LiDAR		03/2022
Design	IZ		03/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

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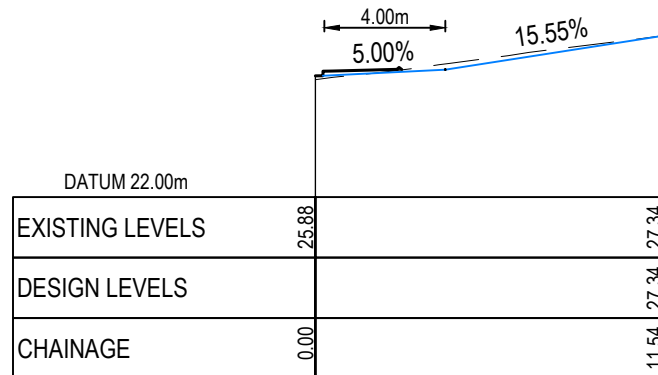
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE FORESTRY ROAD VEHICLE CROSSINGS

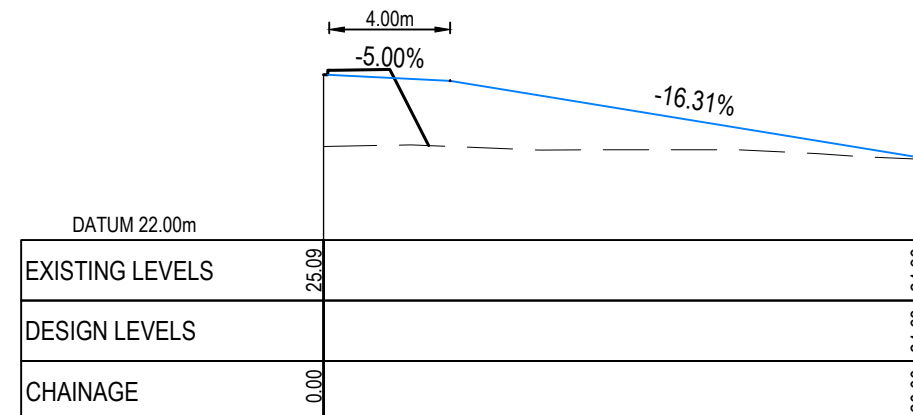
Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C300 ROADING.DWG
Drawing no.	C300-16
Rev	A



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



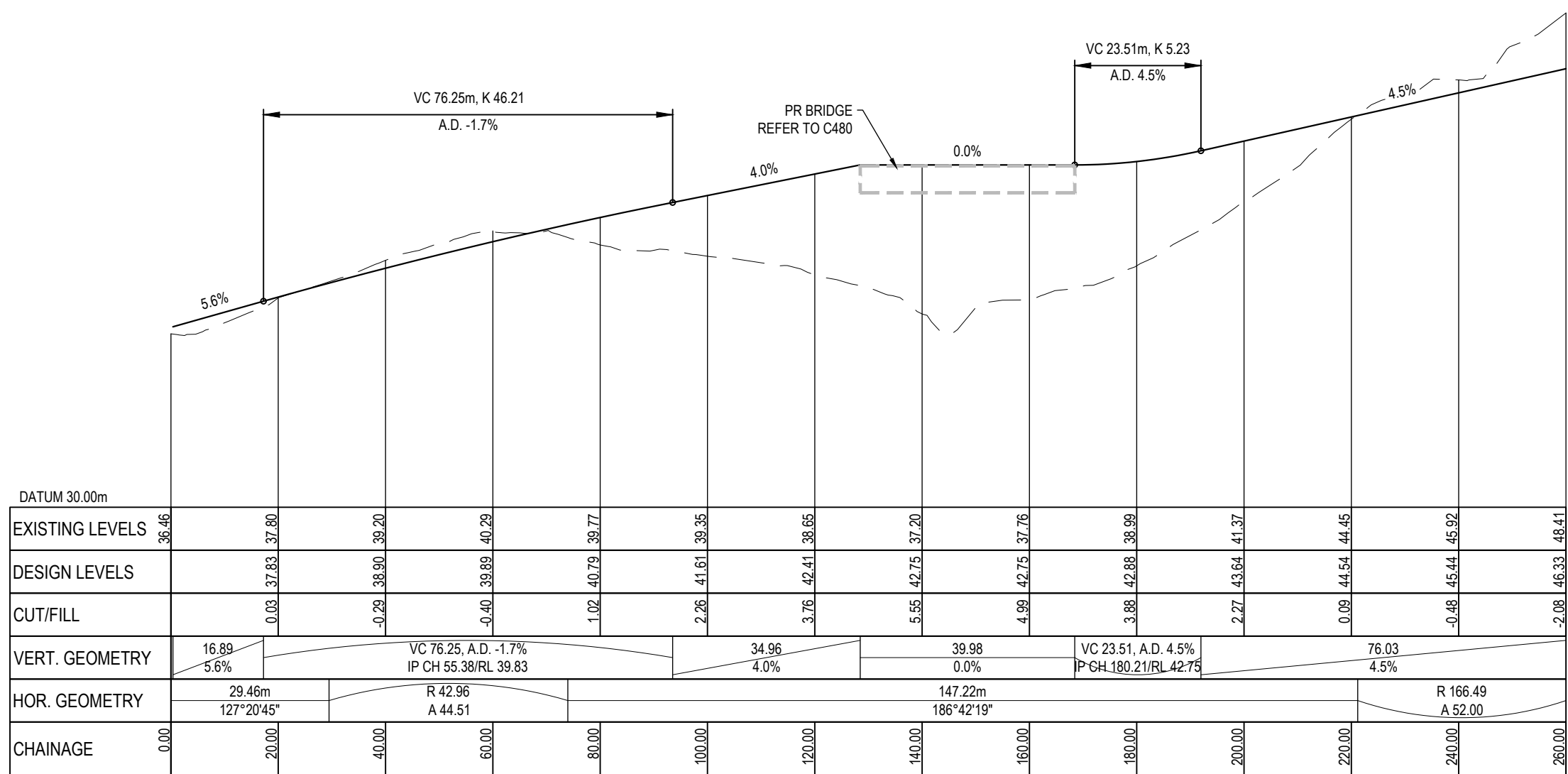
93 FORESTRY ROAD
 SCALE: HORI 1:1000 VERT 1:1000



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

RESOURCE CONSENT

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



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

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

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



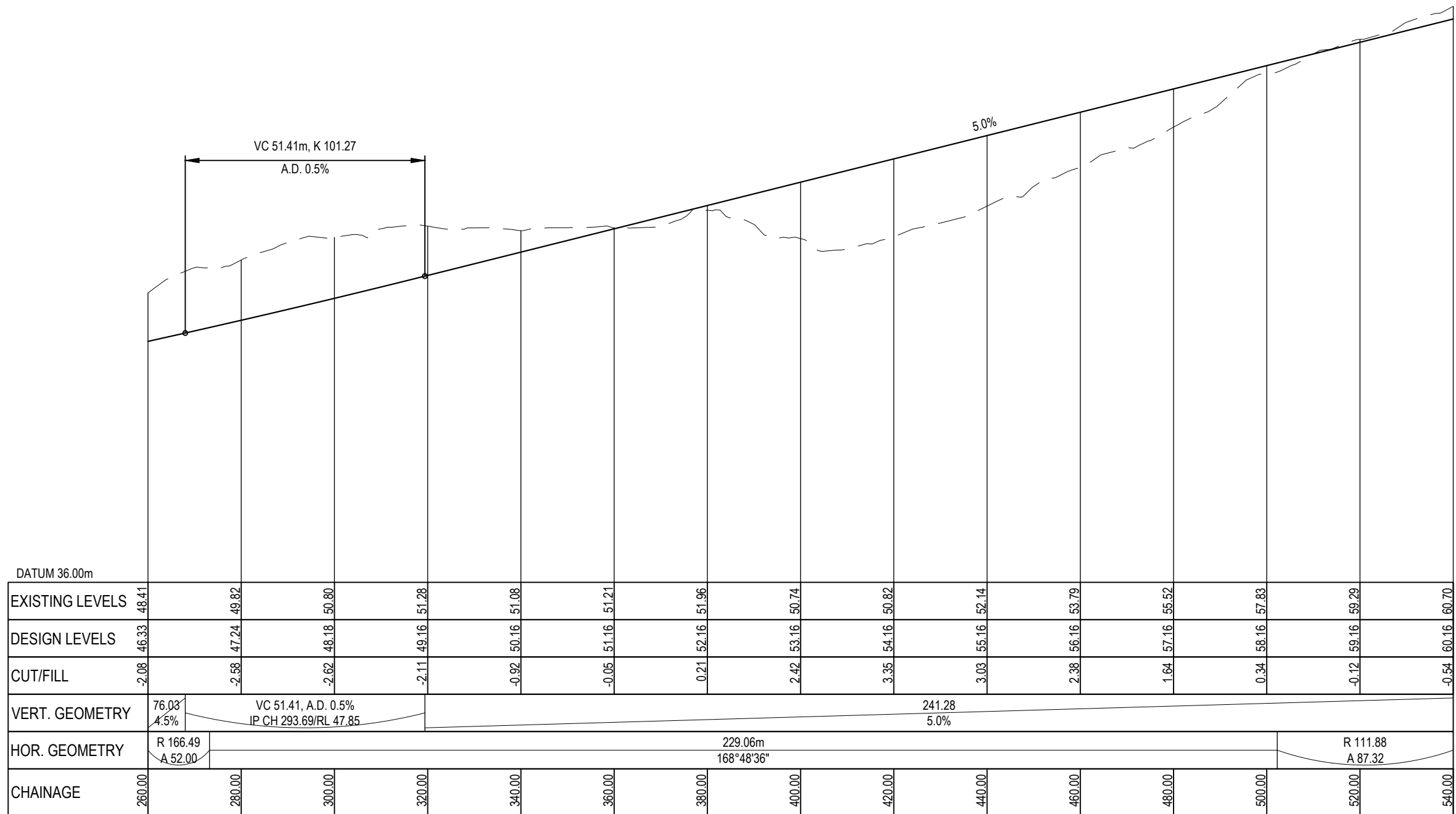
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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

RESOURCE CONSENT

DATE: 4/2025 FILEPATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C320-ROADING.LS.DWG



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

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

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



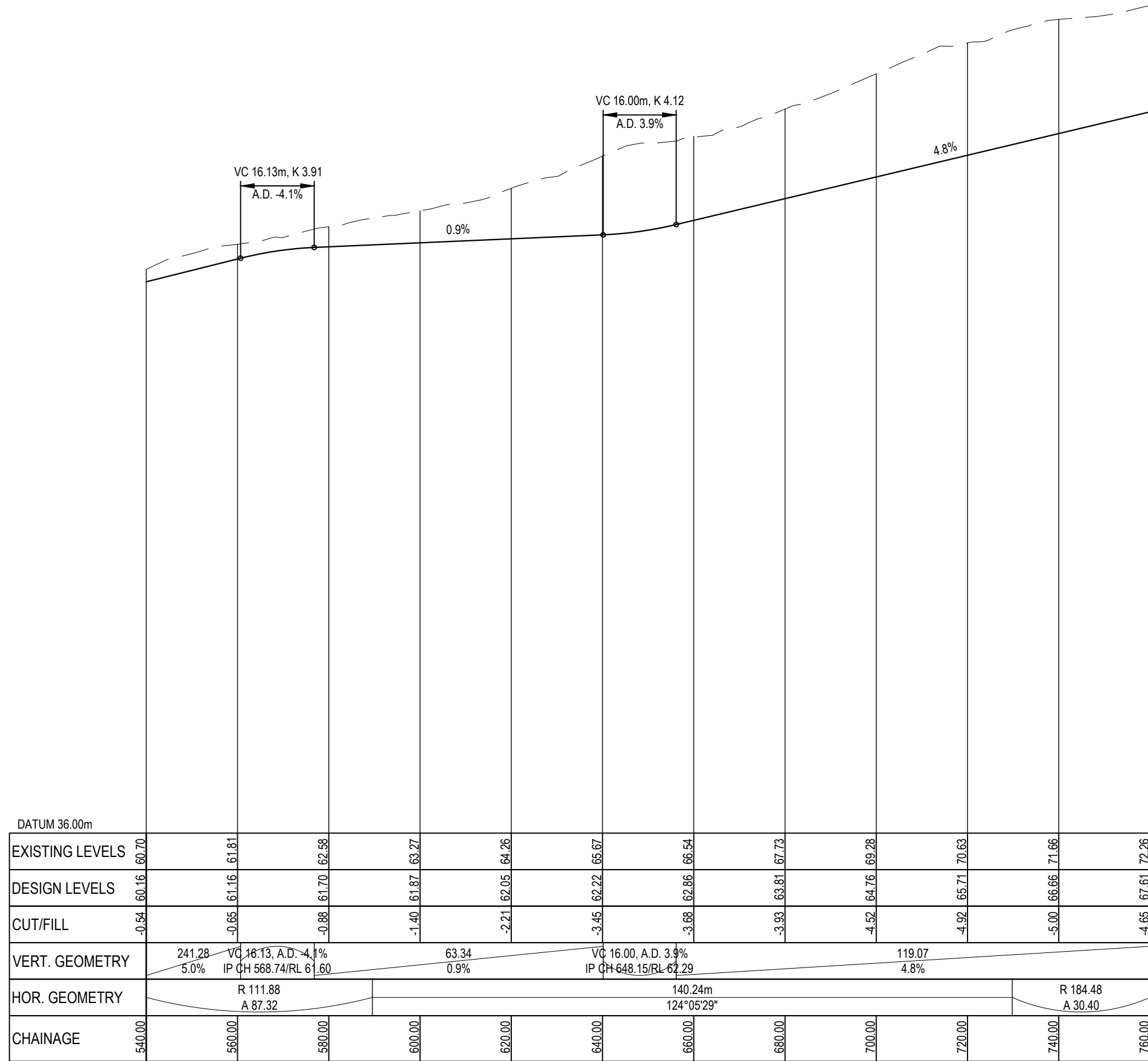
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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

RESOURCE CONSENT

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



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

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

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



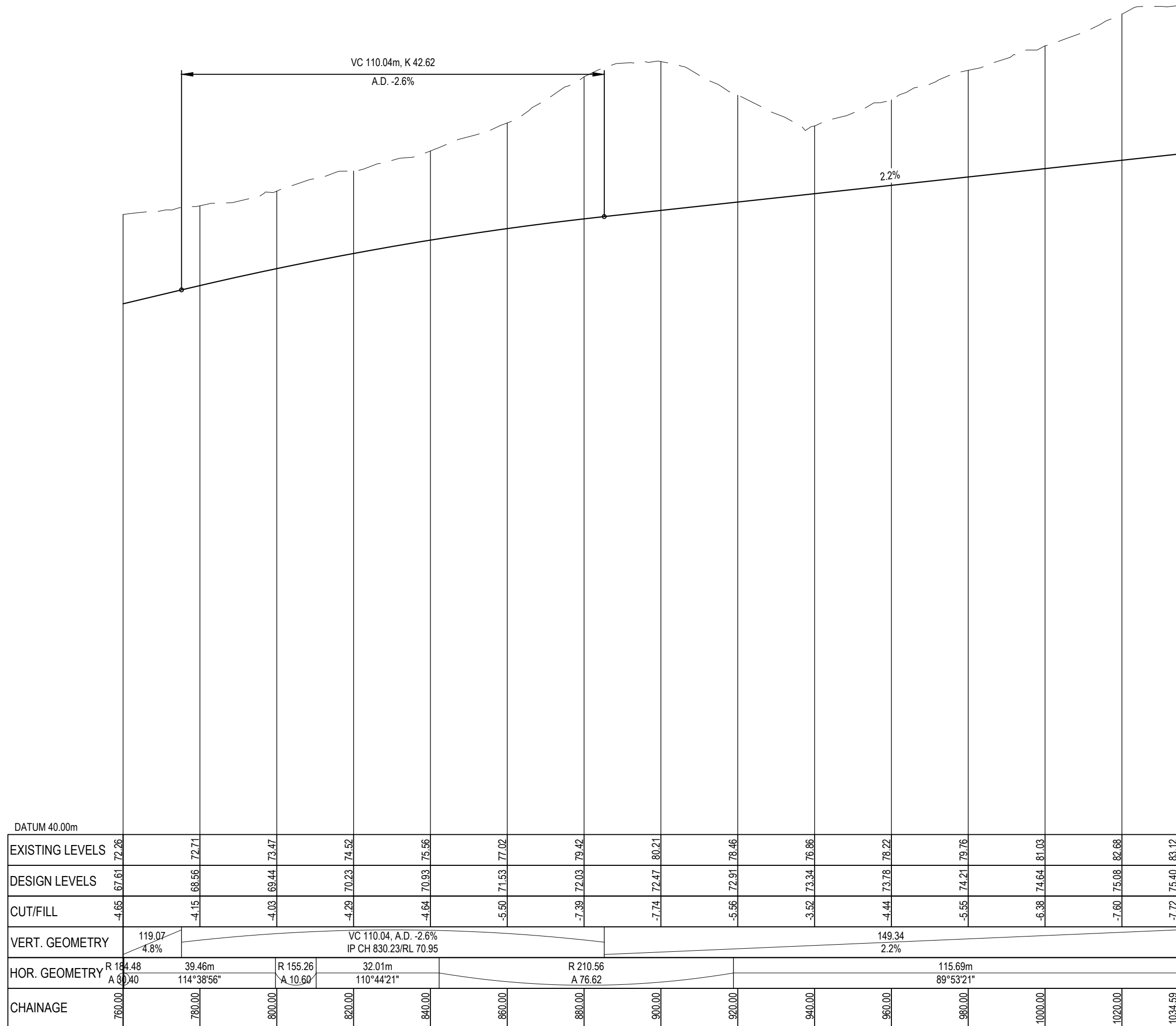
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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

RESOURCE CONSENT

DATE: 4/2025 FILEPATH: F:\M\PROJECTS\RD\147016-RV-C320-ROADING\LS.DWG



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

RESOURCE CONSENT

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

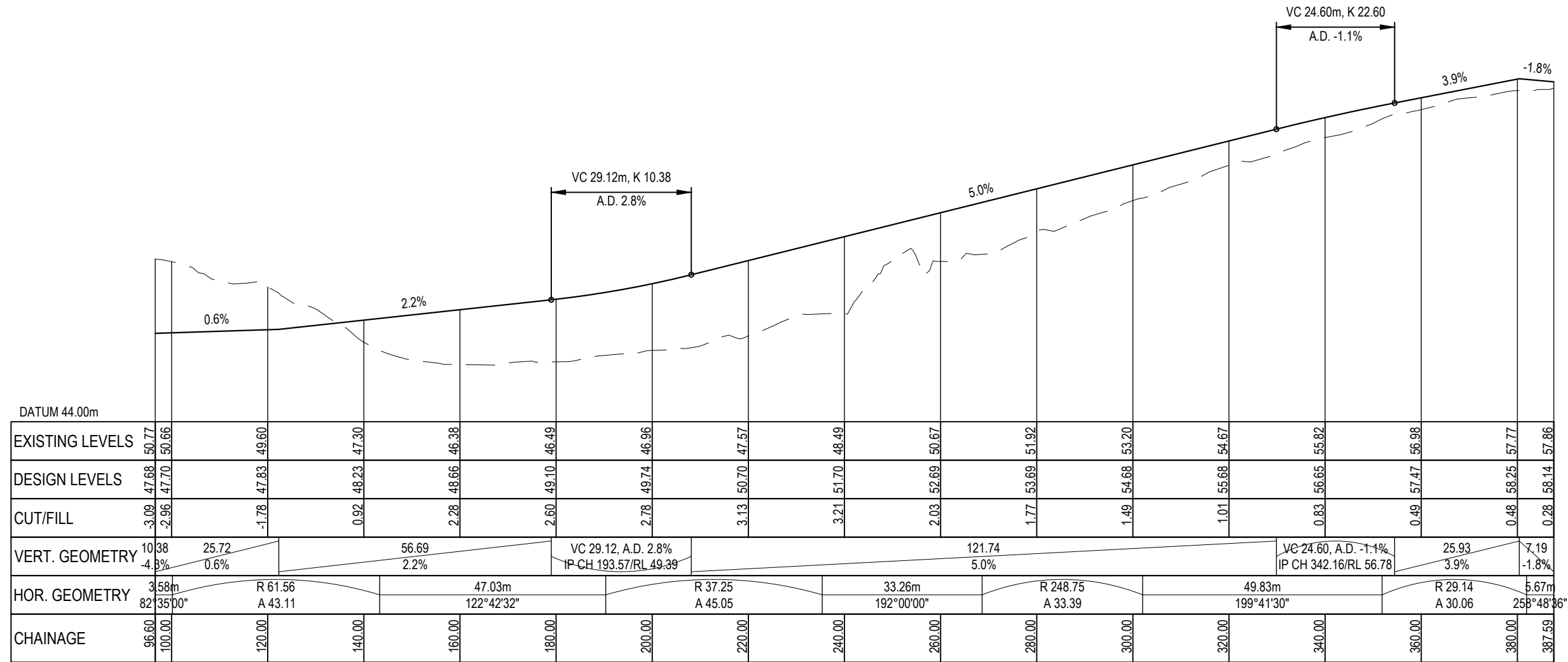
Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
	Survey	LIDAR	03/2022
	Design	IZ	05/2025
	Drawn	SP	03/2025
	Checked	RW/KH	03/2025



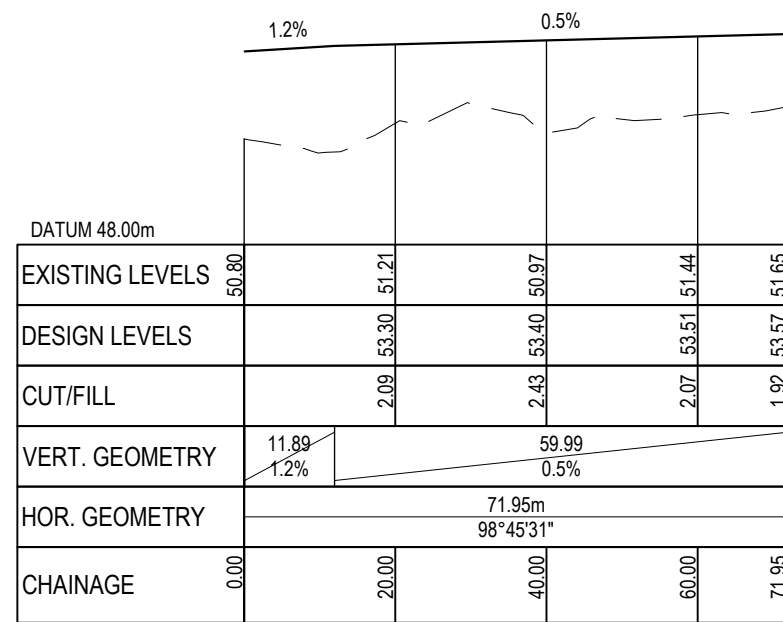
Project
**DEVELOPMENT OF
 RIVERHEAD FOREST
 FOR RANGITOOPUNI
 DEVELOPMENTS LIMITED
 PARTNERSHIP**

Title
**RETIREMENT VILLAGE
 ACCESS WAY
 LONGSECTIONS**

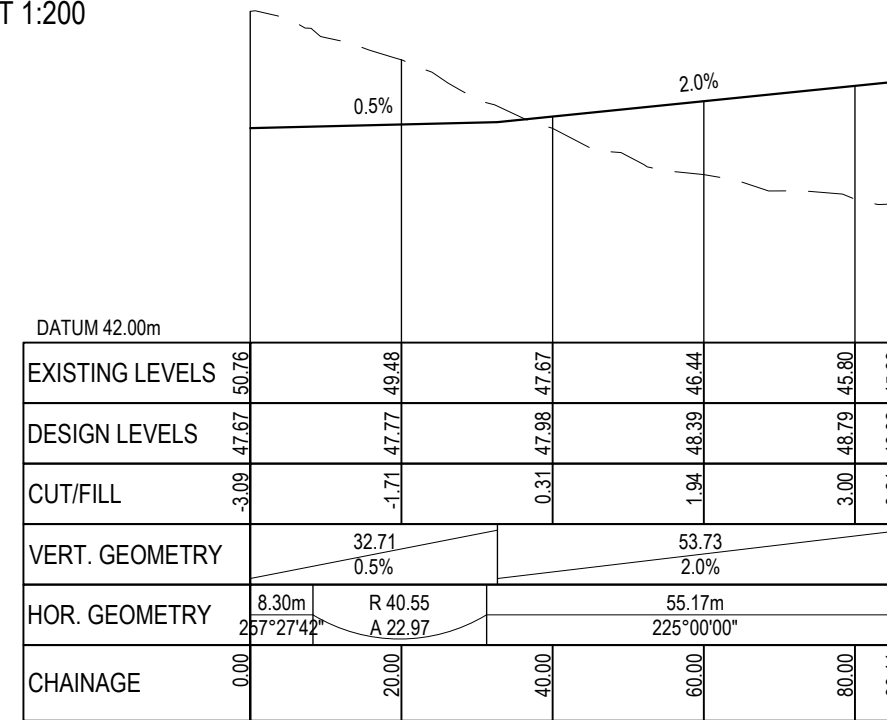
Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C320-3
Rev	A



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
	Survey	LIDAR	03/2022
	Design	IZ	05/2025
	Drawn	SP	03/2025
	Checked	RW/KH	03/2025

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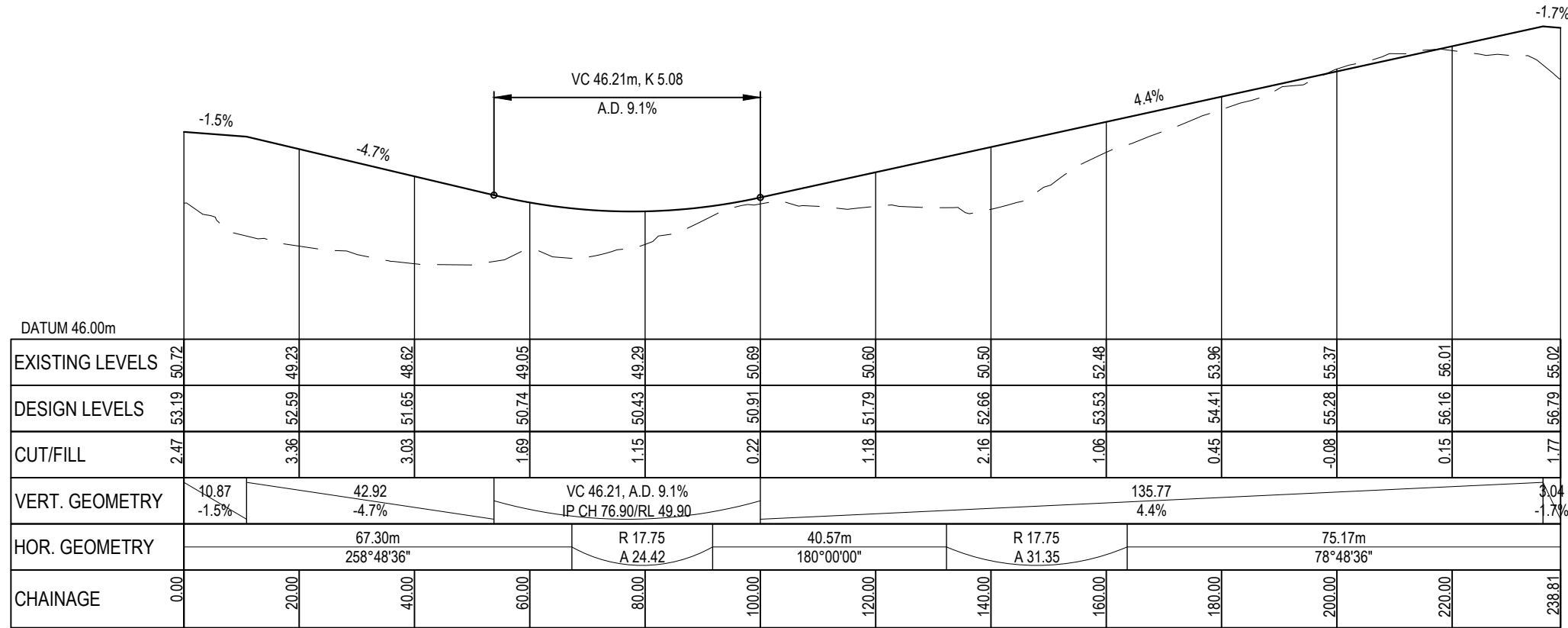
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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

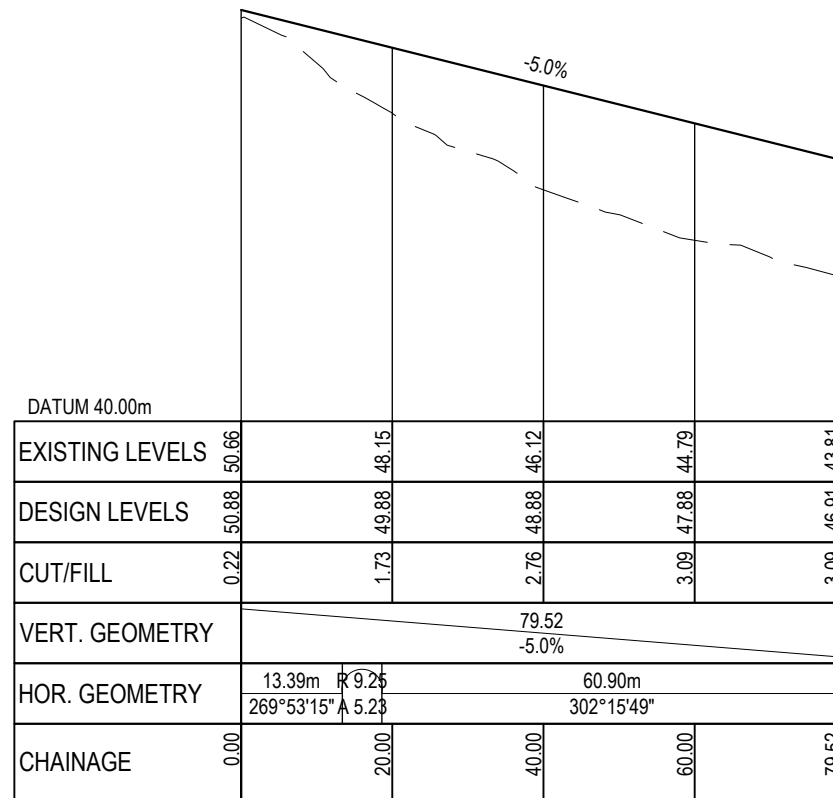
RESOURCE CONSENT

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

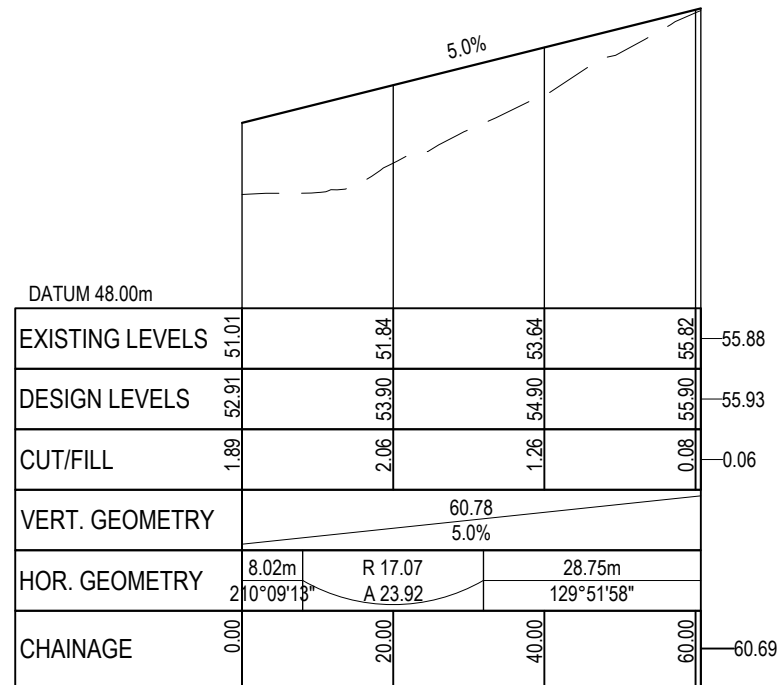


PR ACCESS WAY 4 LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

LEGEND:
 EX GROUND SURFACE
 PR DESIGN SURFACE



PR ACCESS WAY 4A LONGSECTION
SCALE: HORI 1:1000 VERT 1:200



PR ACCESS WAY 4B LONGSECTION
SCALE: HORI 1:1000 VERT 1:200

Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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**

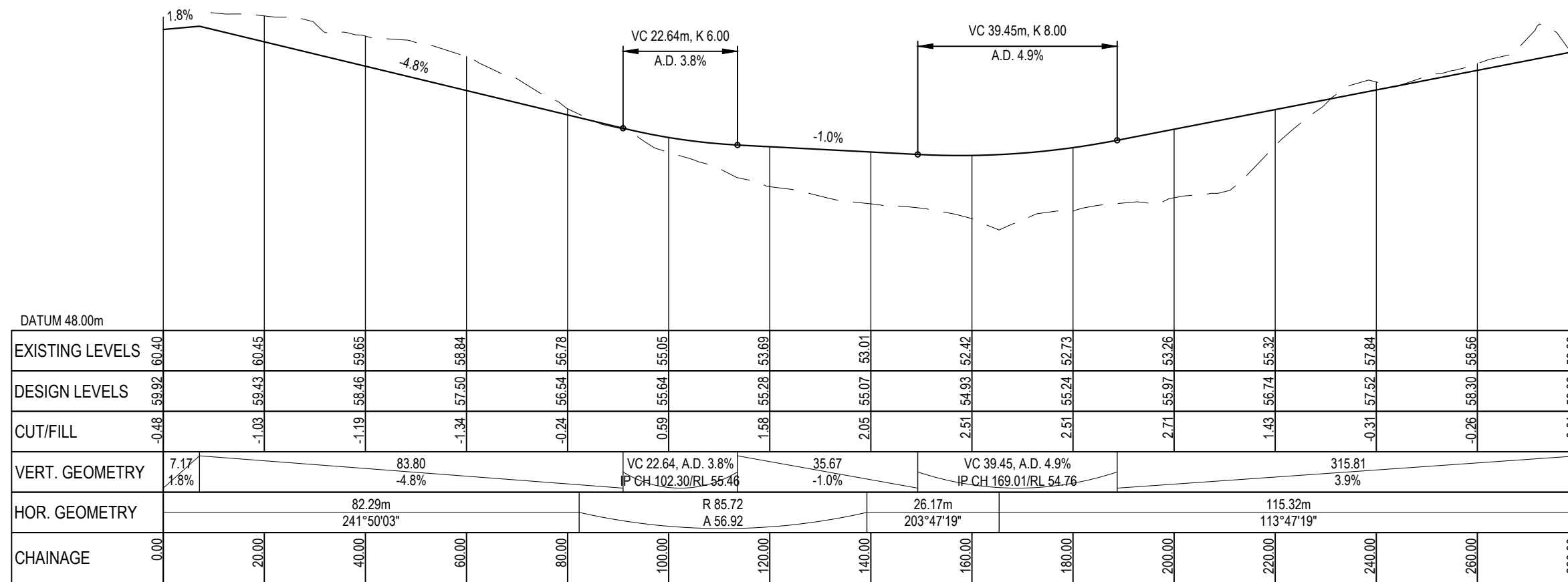
Title
**RETIREMENT VILLAGE
 ACCESS WAY
 LONGSECTIONS**

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

RESOURCE CONSENT

DATE: 4/2025 FILEPATH: F:\MVEN\PROJECTS\147016-RV-C320 ROADING LS.DWG

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



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

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

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



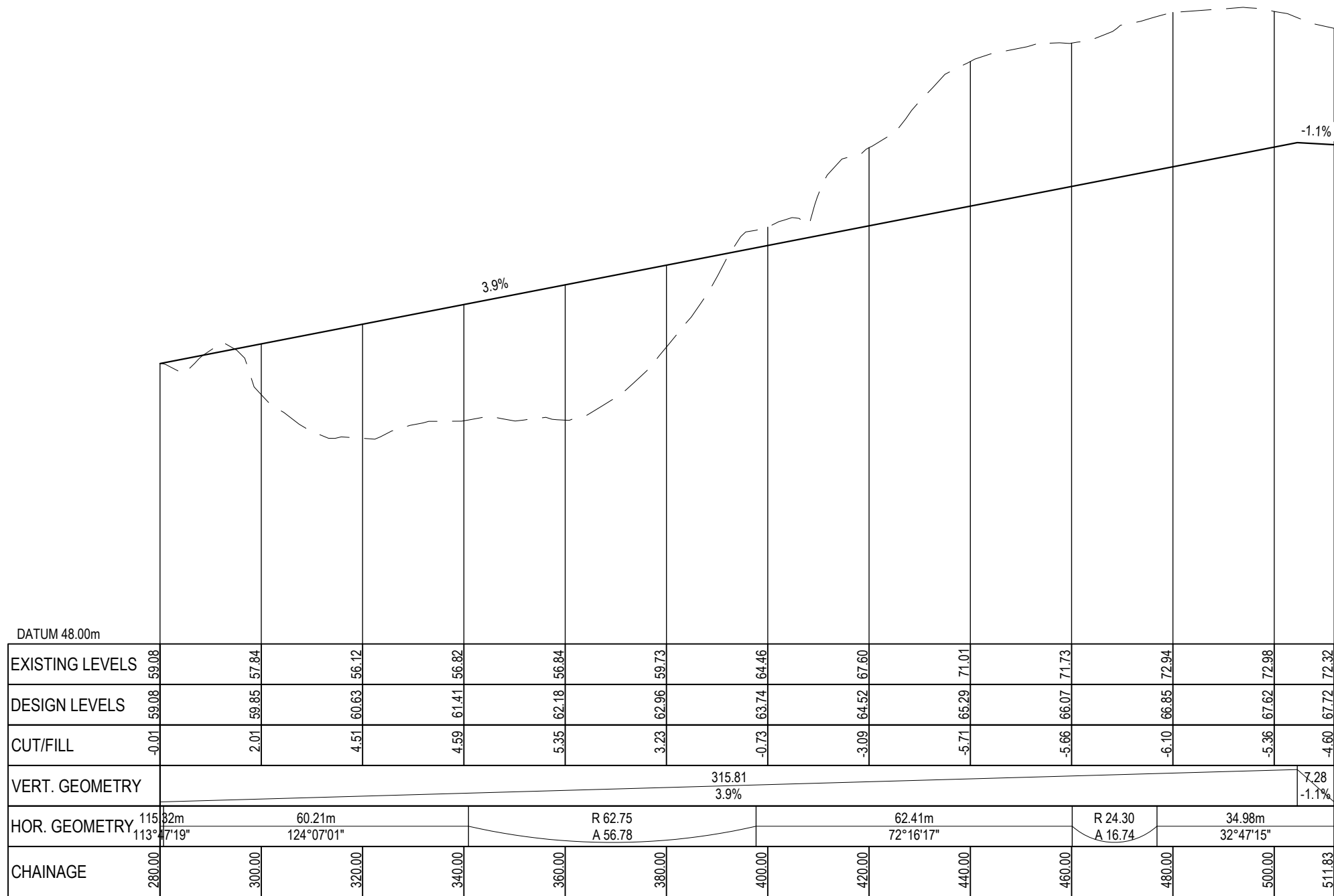
Project
**DEVELOPMENT OF
 RIVERHEAD FOREST
 FOR RANGITOOPUNI
 DEVELOPMENTS LIMITED
 PARTNERSHIP**

Title
**RETIREMENT VILLAGE
 ACCESS WAY
 LONGSECTIONS**

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

RESOURCE CONSENT

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



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

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

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

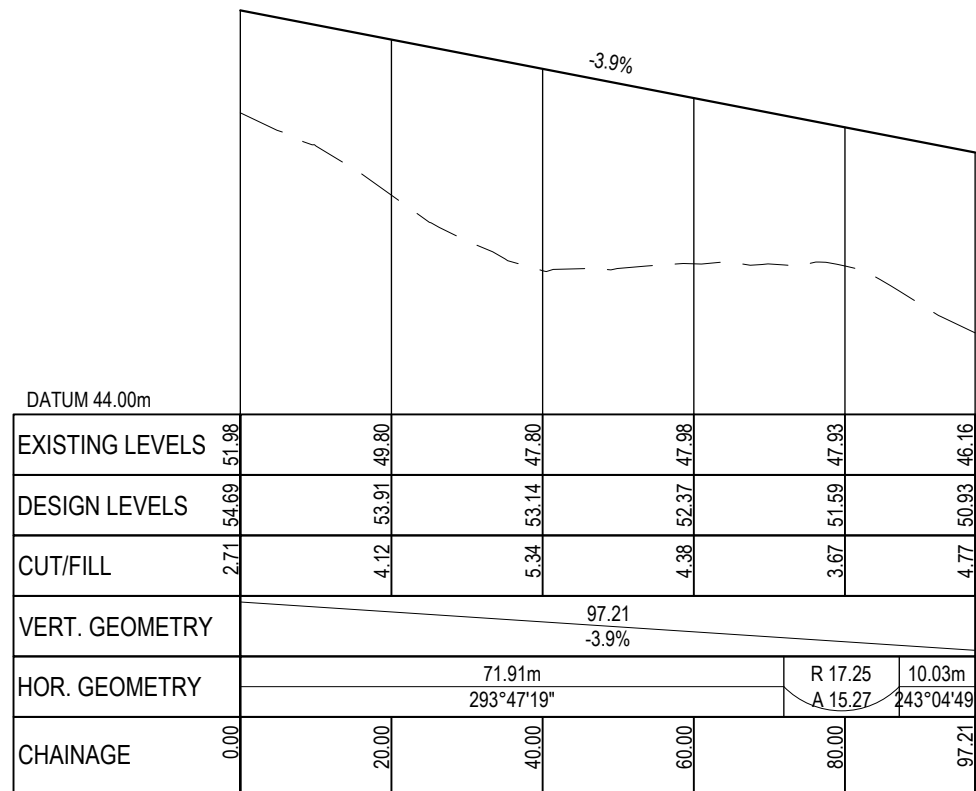
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 Auckland 1023

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

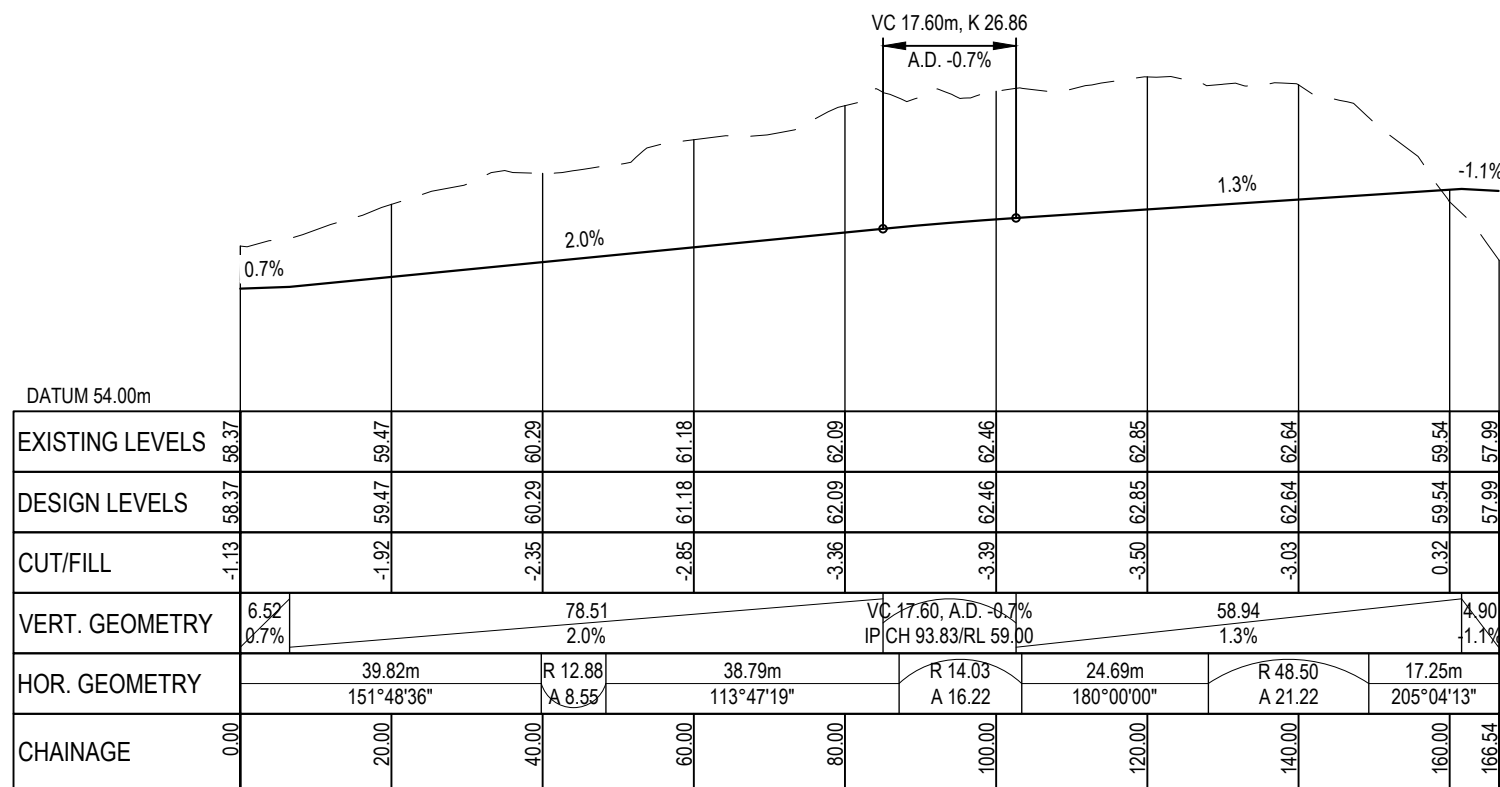
Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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

RESOURCE CONSENT



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

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

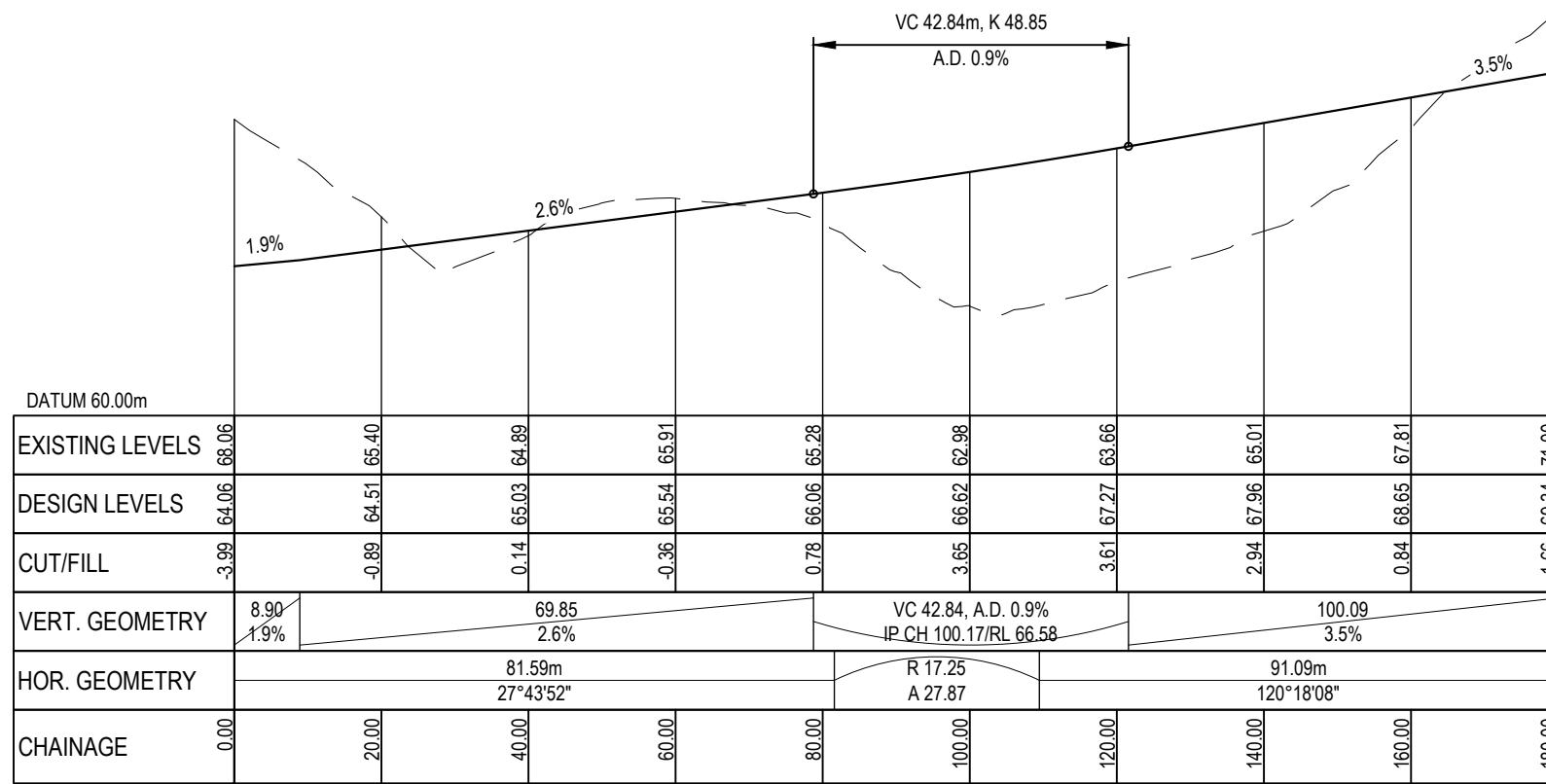


Project
**DEVELOPMENT OF
 RIVERHEAD FOREST
 FOR RANGITOOPUNI
 DEVELOPMENTS LIMITED
 PARTNERSHIP**

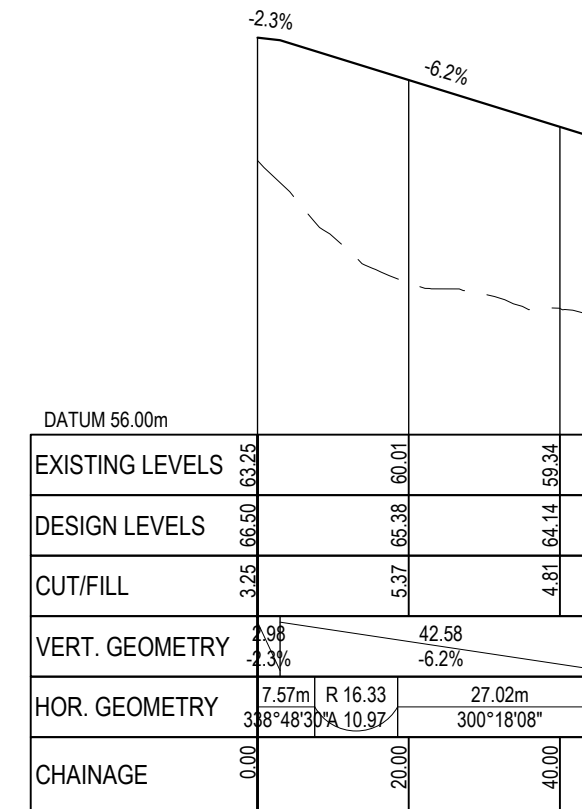
Title
**RETIREMENT VILLAGE
 ACCESS WAY
 LONGSECTIONS**

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

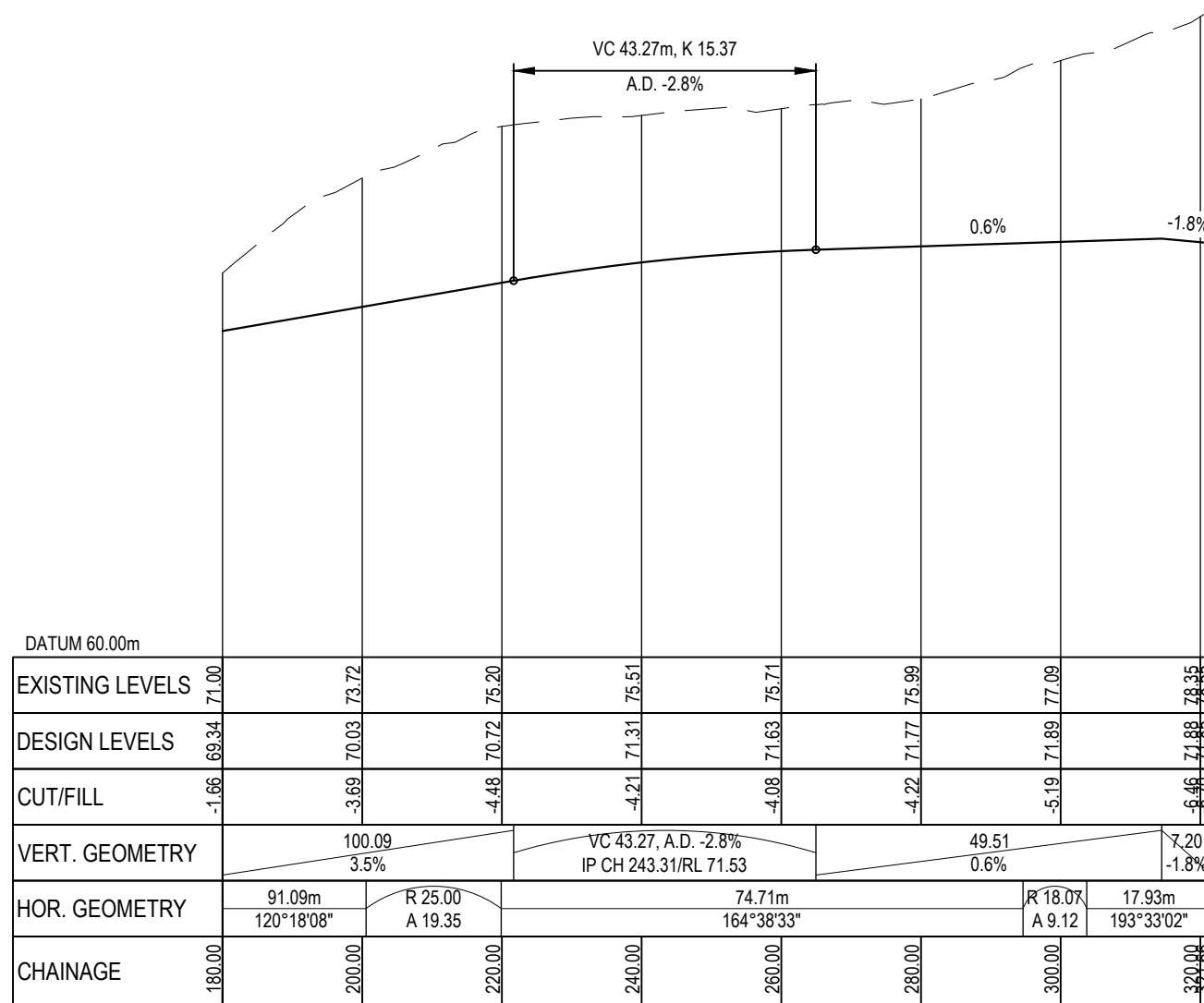
RESOURCE CONSENT



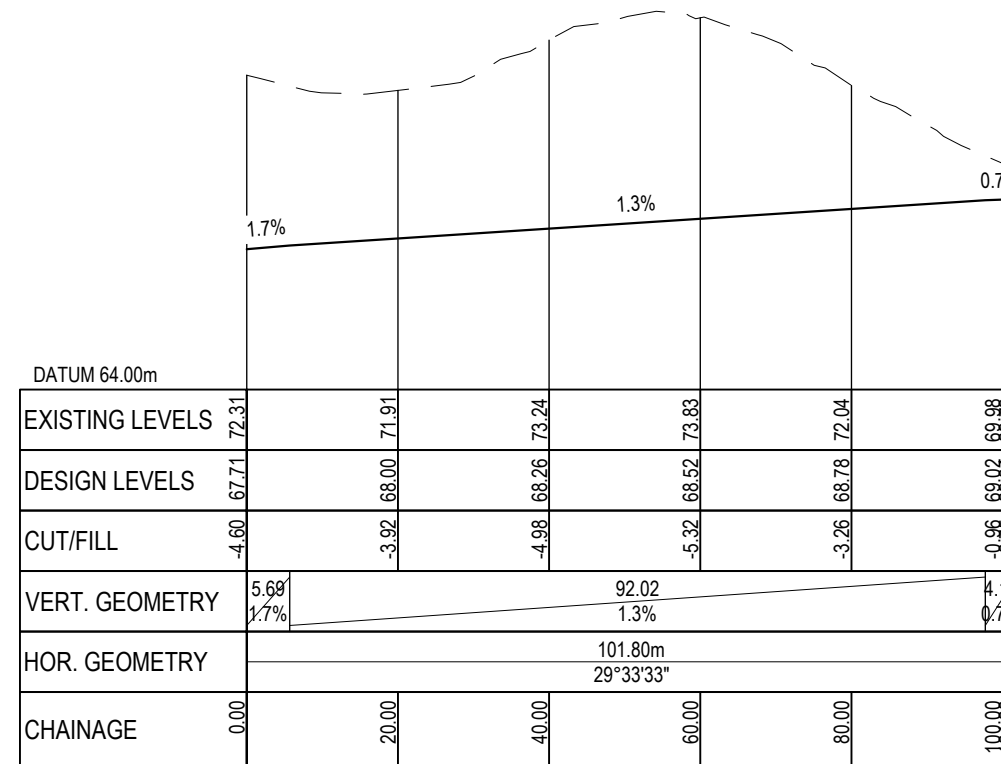
PR ACCESS WAY 6 LONGSECTION (CH 0 - CH 180)
SCALE: HORI 1:1000 VERT 1:200



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

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

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



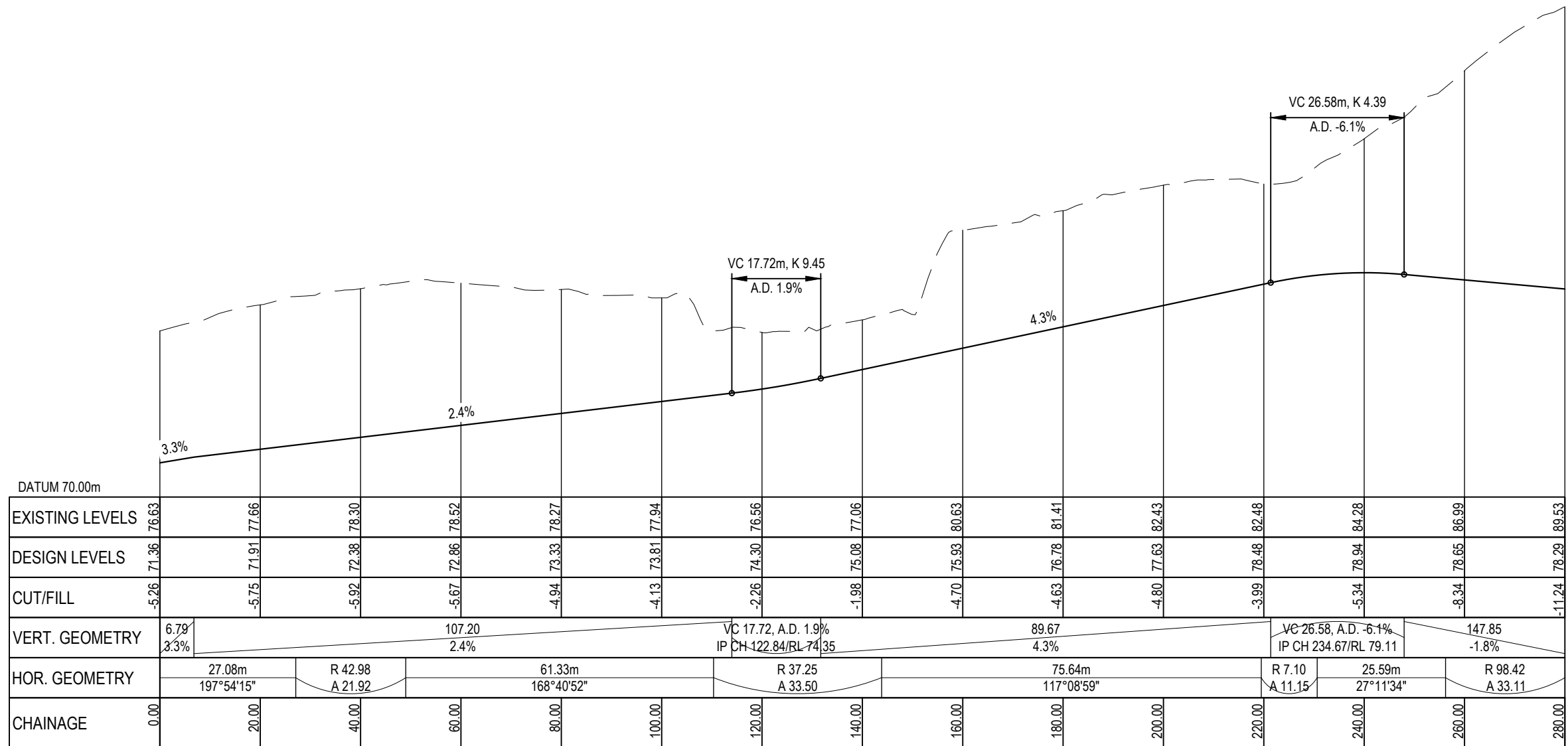
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

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

RESOURCE CONSENT

DATE: 4/2025 FILEPATH: F:\MVEN\PROJECTS\RD\147016-RV-C320 ROADING LS.DWG



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

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

Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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

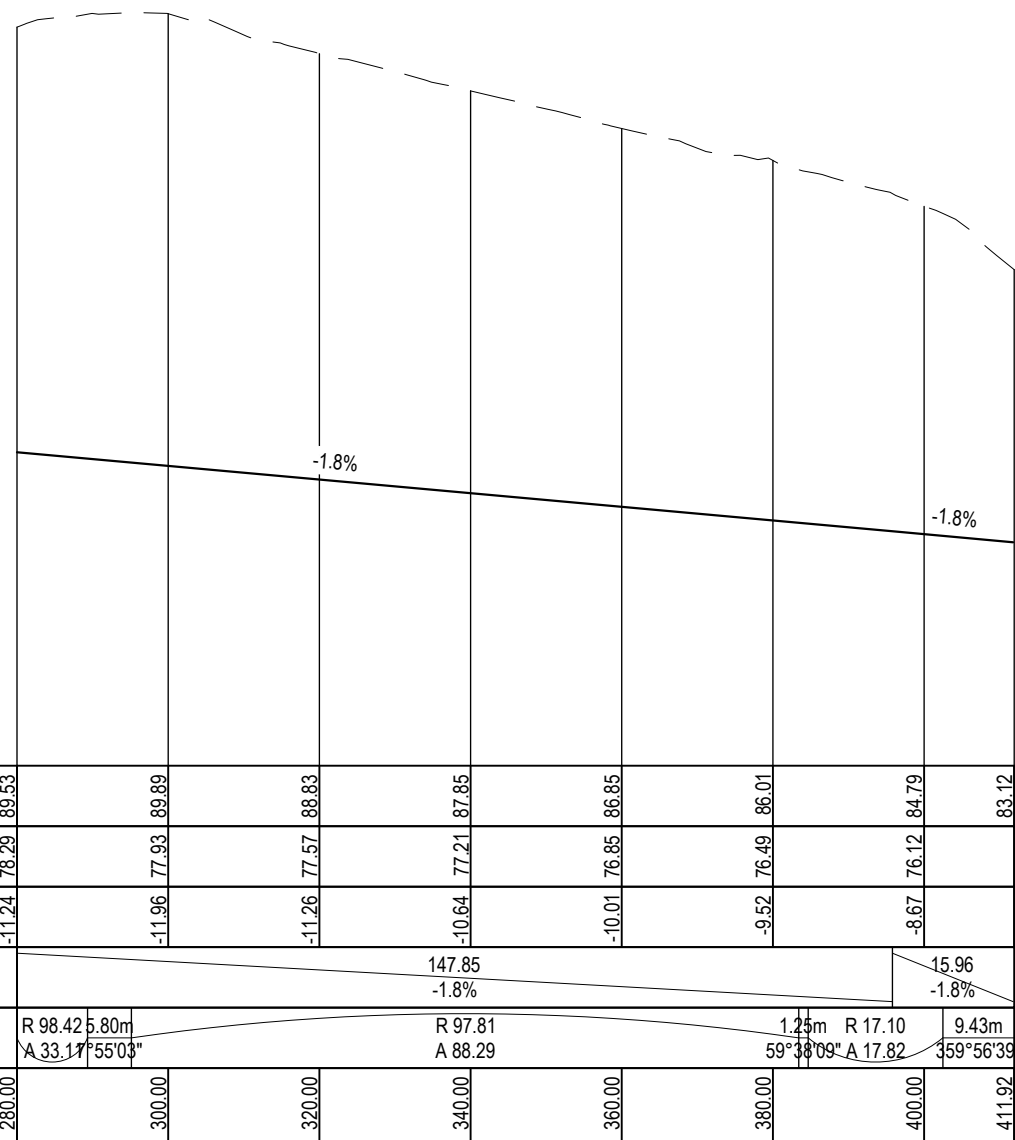
Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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

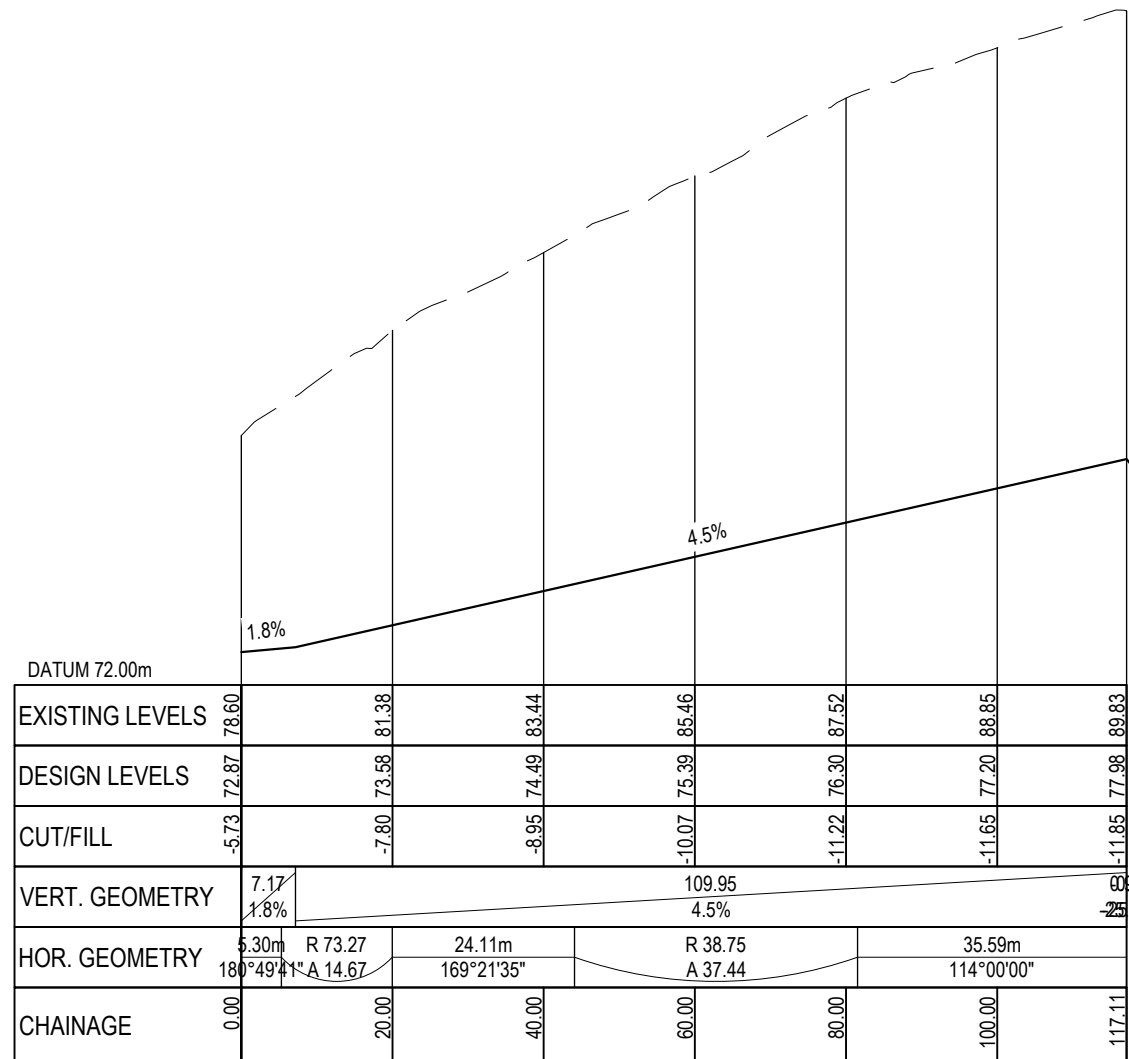
RESOURCE CONSENT

DATE: 4/3/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C320 ROADING LS.DWG

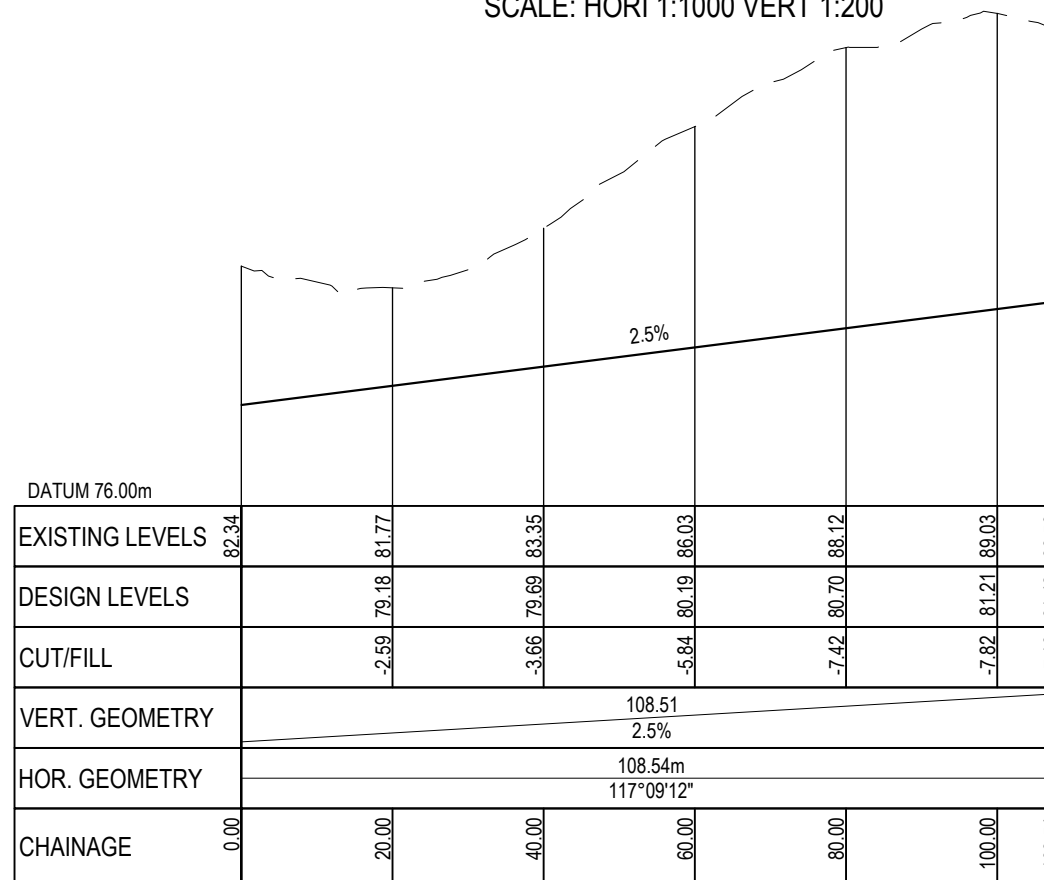
DATE: 4/2025 FILEPATH: F:\MVR\PROJECTS\RD\147016-RV-C320-ROADING\LS.DWG



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



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
Survey	LIDAR		03/2022
Design	IZ		05/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025

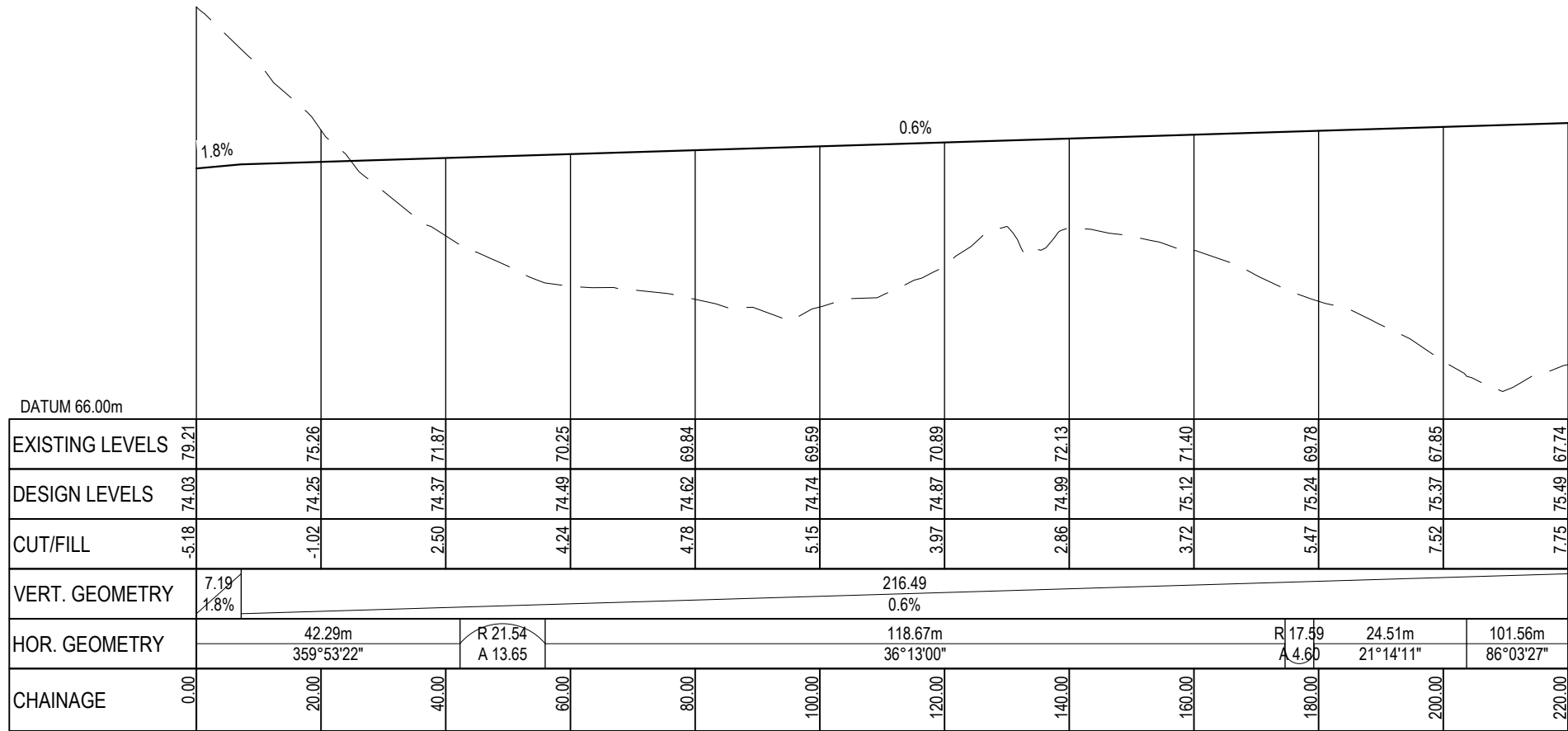


Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

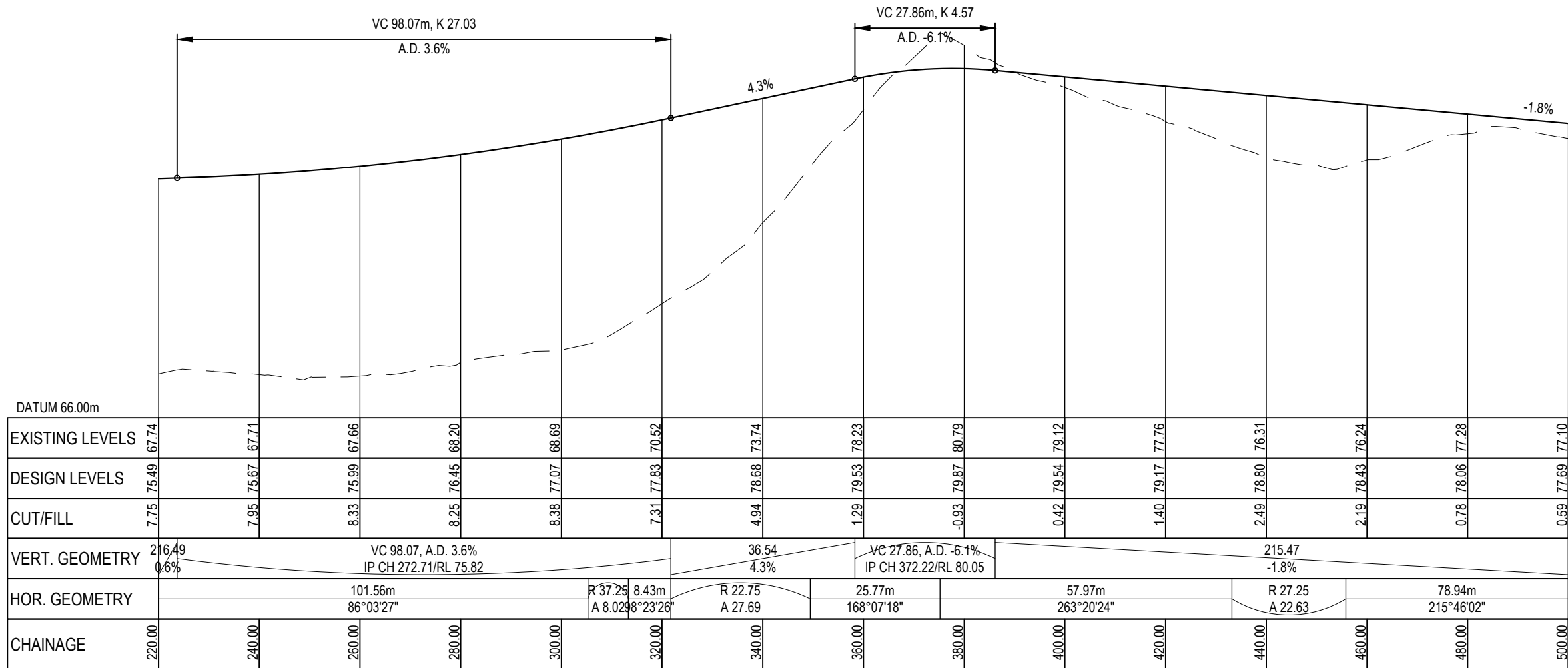
Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C325-1
Rev	A

RESOURCE CONSENT



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

LEGEND:
 EX GROUND SURFACE
 PR DESIGN SURFACE



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

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

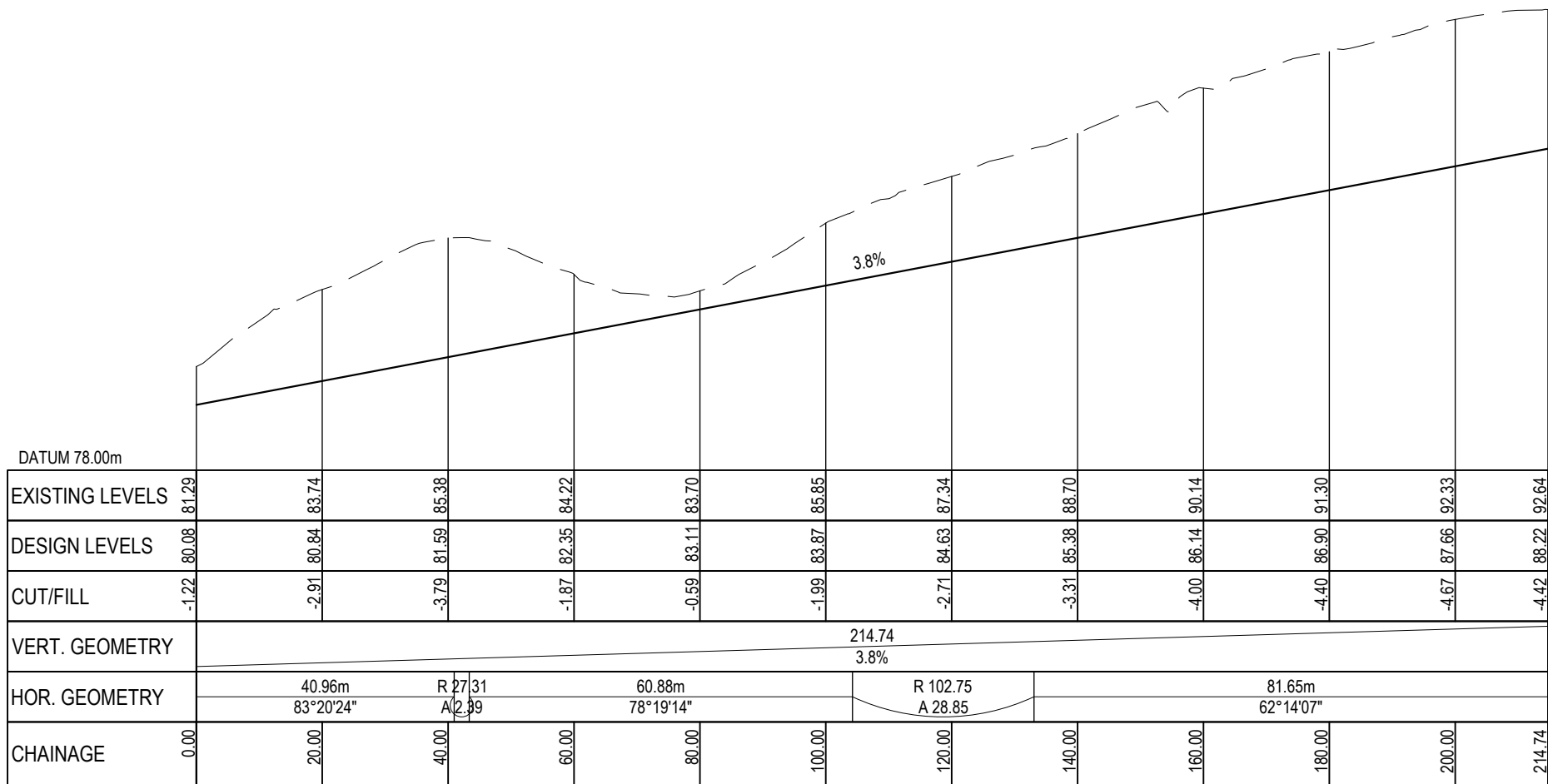


Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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

RESOURCE CONSENT



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

LEGEND:
 EX GROUND SURFACE
 PR DESIGN SURFACE

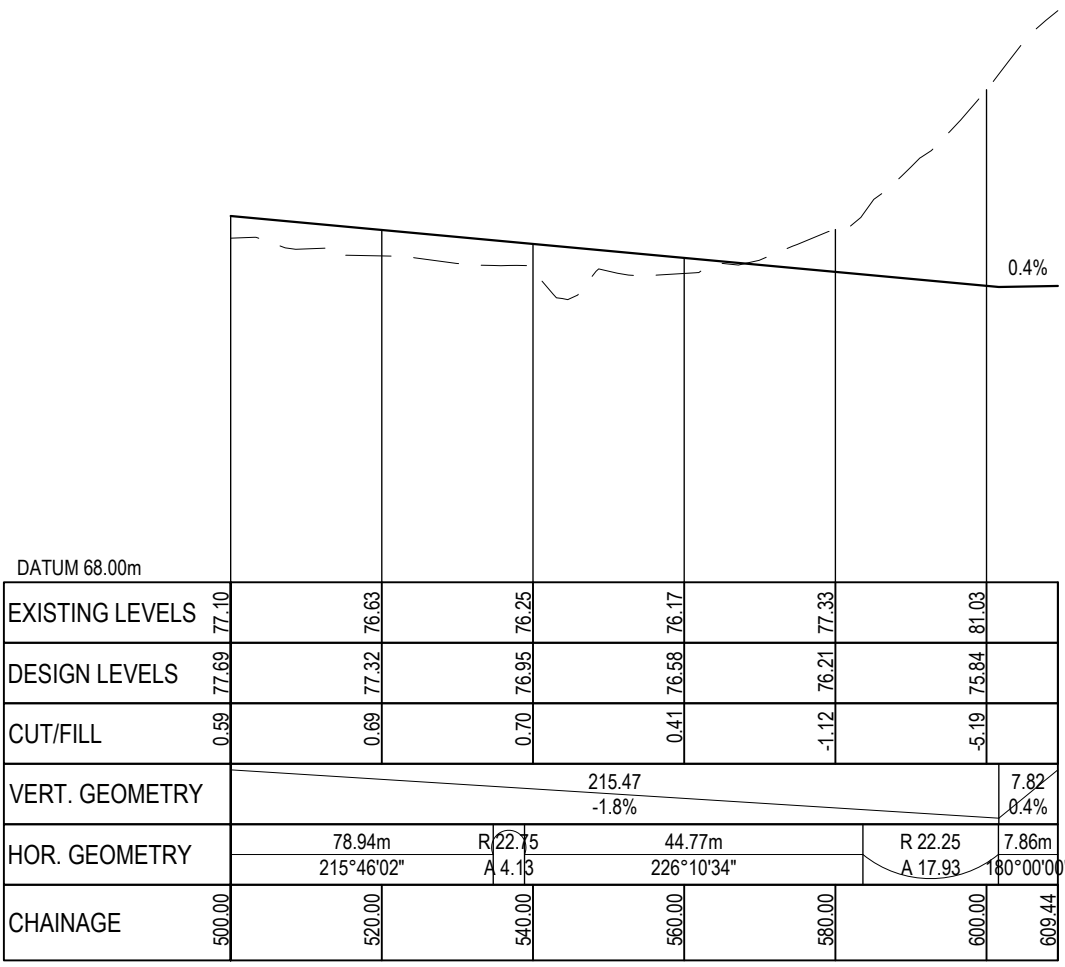
A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	IZ		05/2025
Drawn	SP		03/2025
Checked	RW/KH		03/2025



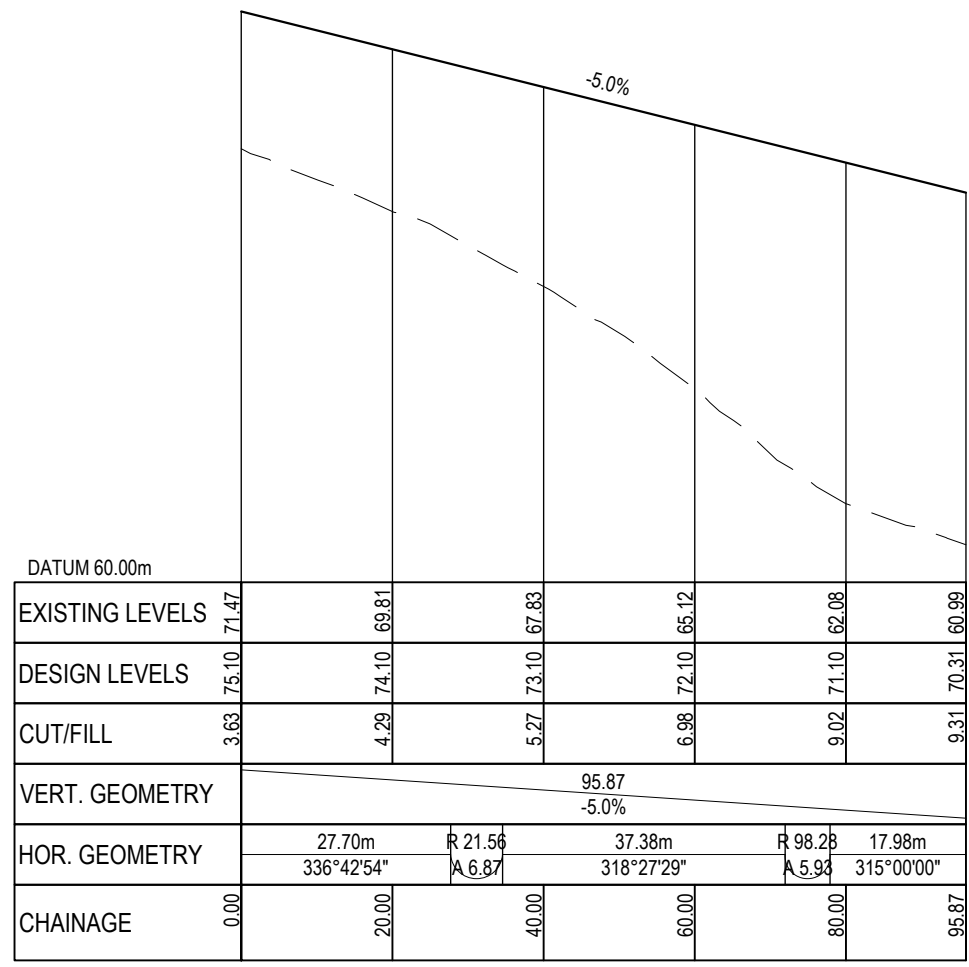
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE ACCESS WAY LONGSECTIONS

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



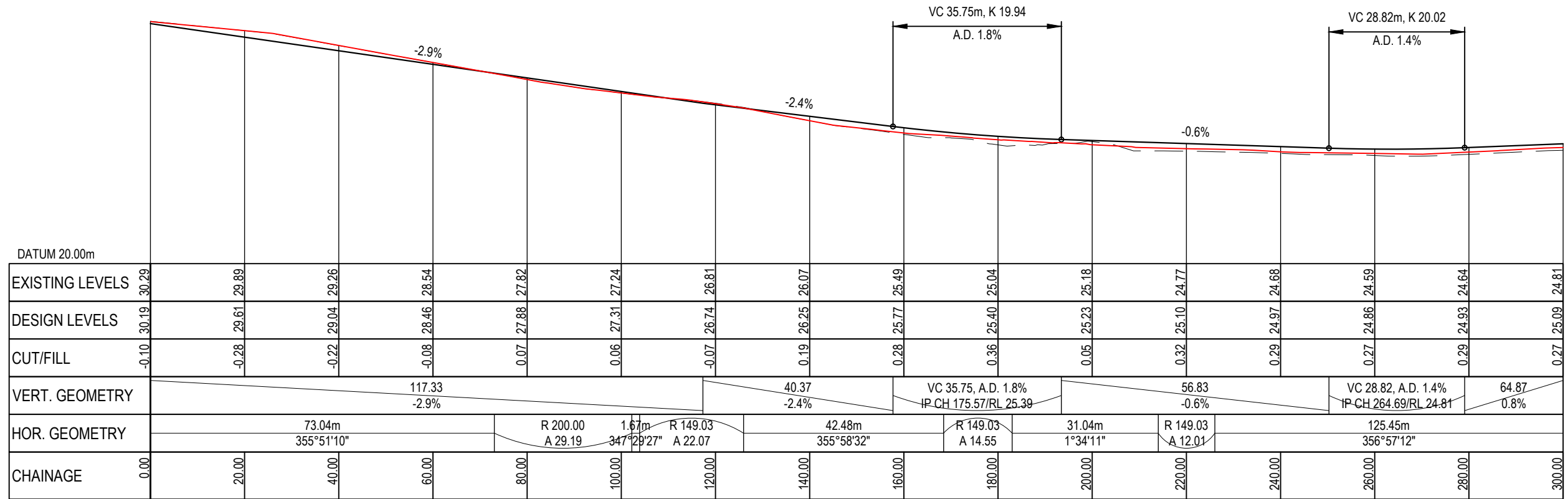
PR ACCESS WAY 8 LONGSECTION (CH 500 - CH 609.44)
SCALE: HORI 1:1000 VERT 1:200



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

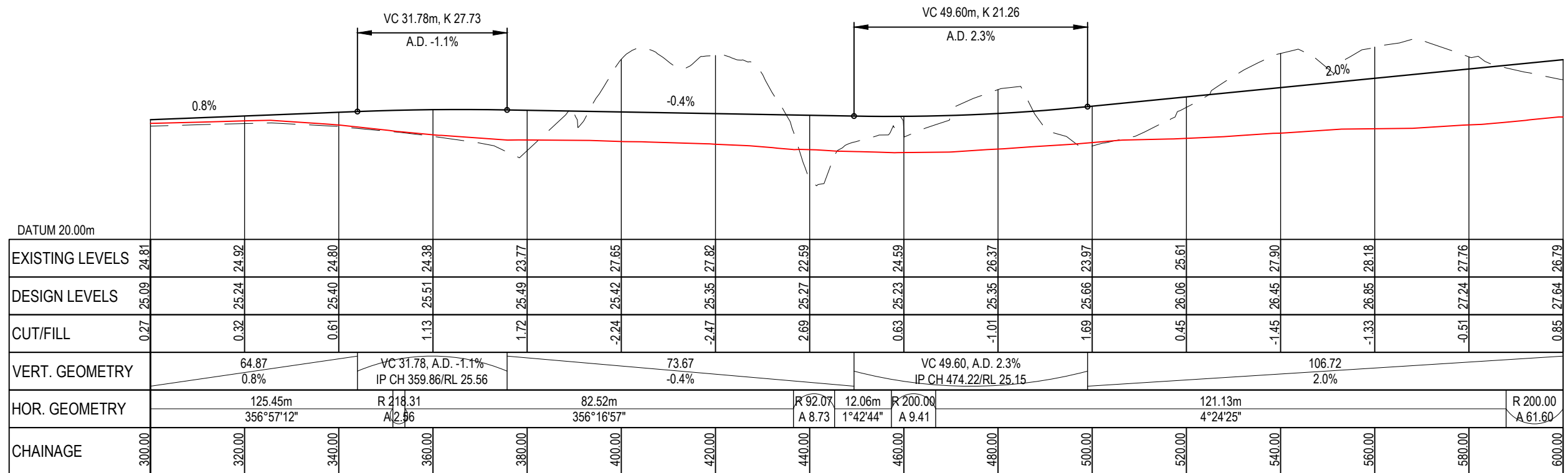
RESOURCE CONSENT

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



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

LEGEND:



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

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date

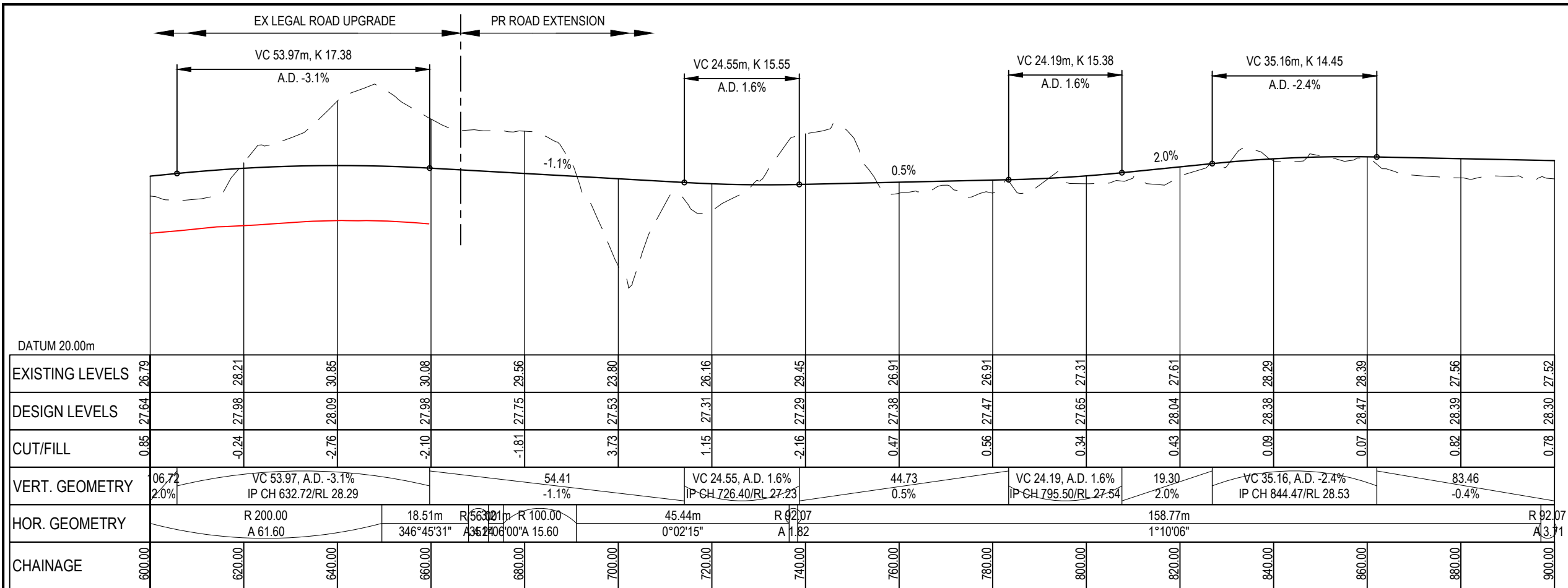


Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

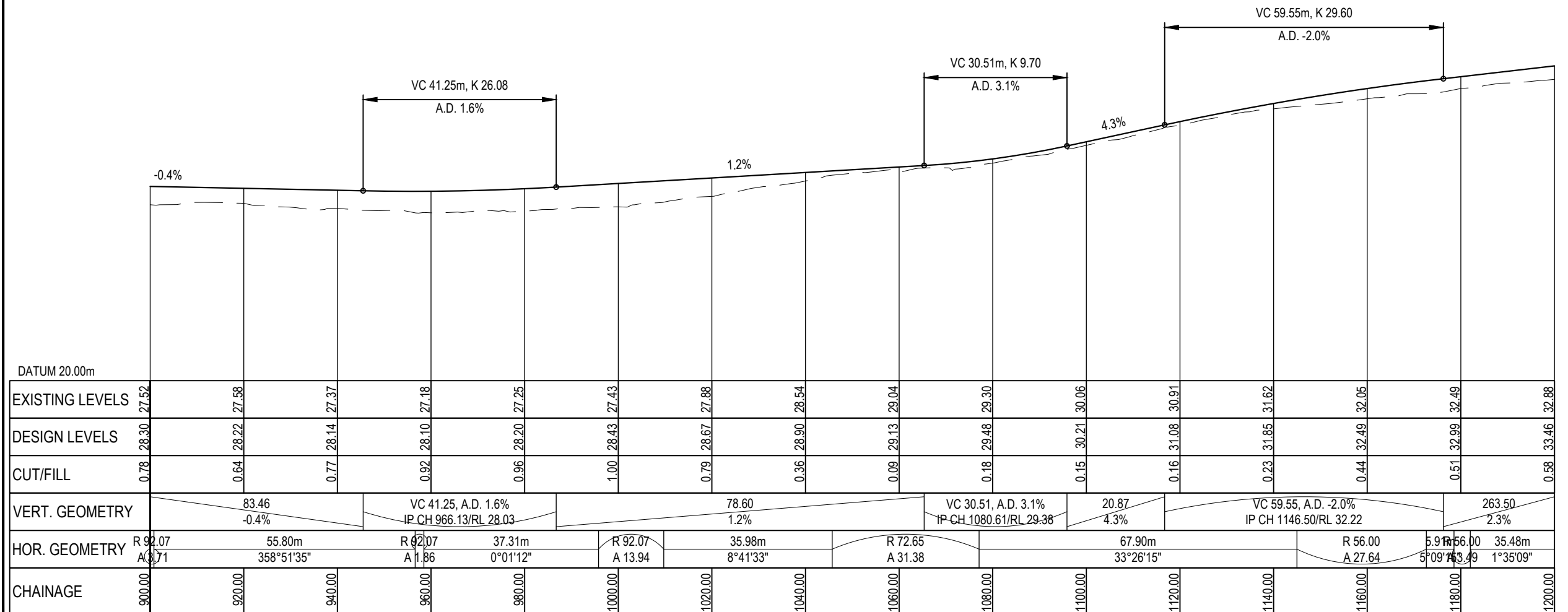
Title
RETIREMENT VILLAGE FORESTRY RD EXTENSION LONGSECTIONS

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

RESOURCE CONSENT



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

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

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

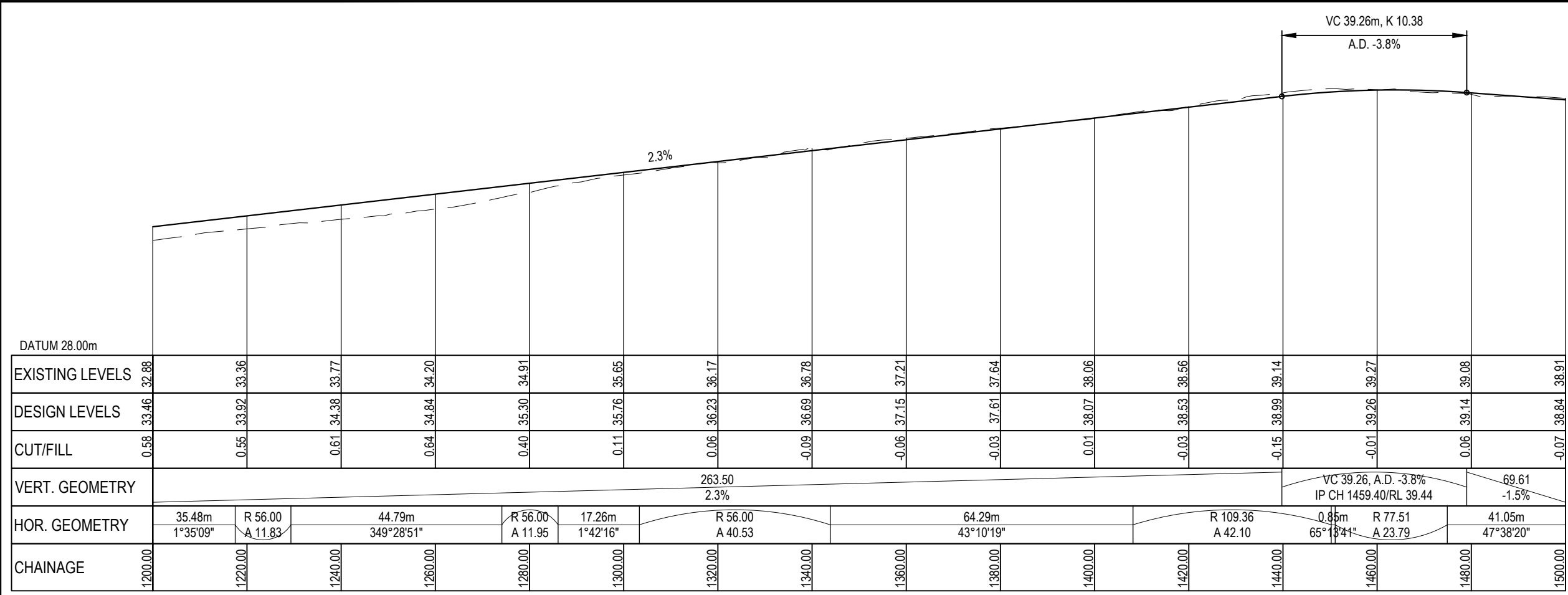


Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

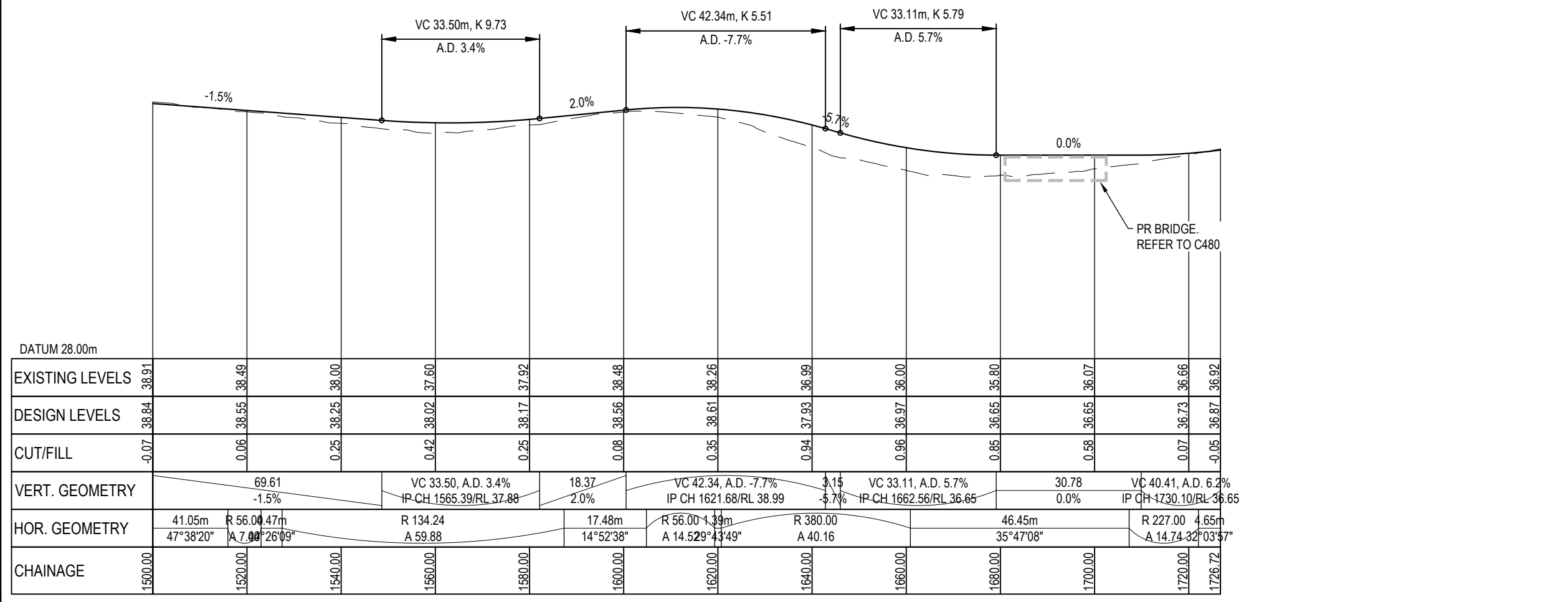
Title
RETIREMENT VILLAGE FORESTRY RD EXTENSION LONGSECTIONS

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

RESOURCE CONSENT



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

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

Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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

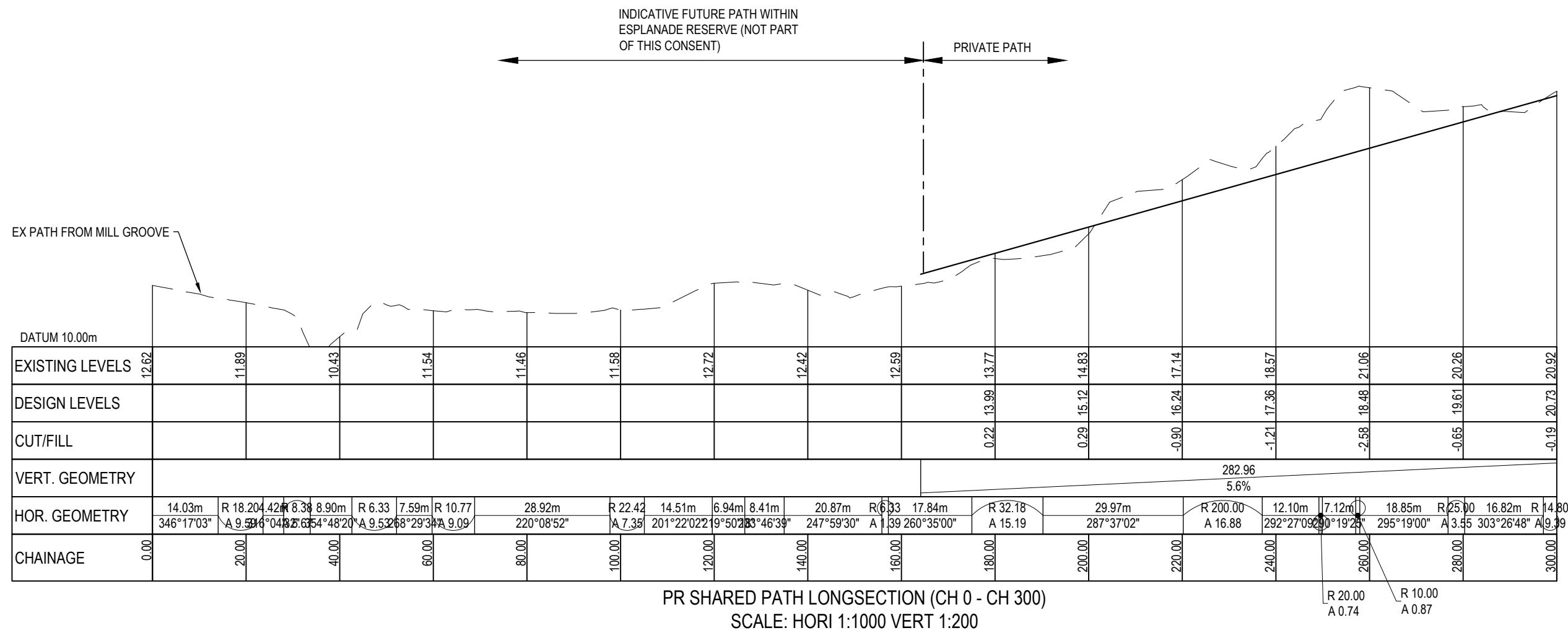
Title
RETIREMENT VILLAGE FORESTRY RD EXTENSION LONGSECTIONS

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

RESOURCE CONSENT

DATE: 4/2025 FILEPATH: F:\MVEN\PROJECTS\RD\RETIREMENT VILLAGE\RD\147016-RV-C320 ROADING LS.DWG

DATE: 4/2025 FILEPATH: F:\M\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C30-ROADING.LSDWG



PR SHARED PATH LONGSECTION (CH 0 - CH 300)
SCALE: HORI 1:1000 VERT 1:200

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

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



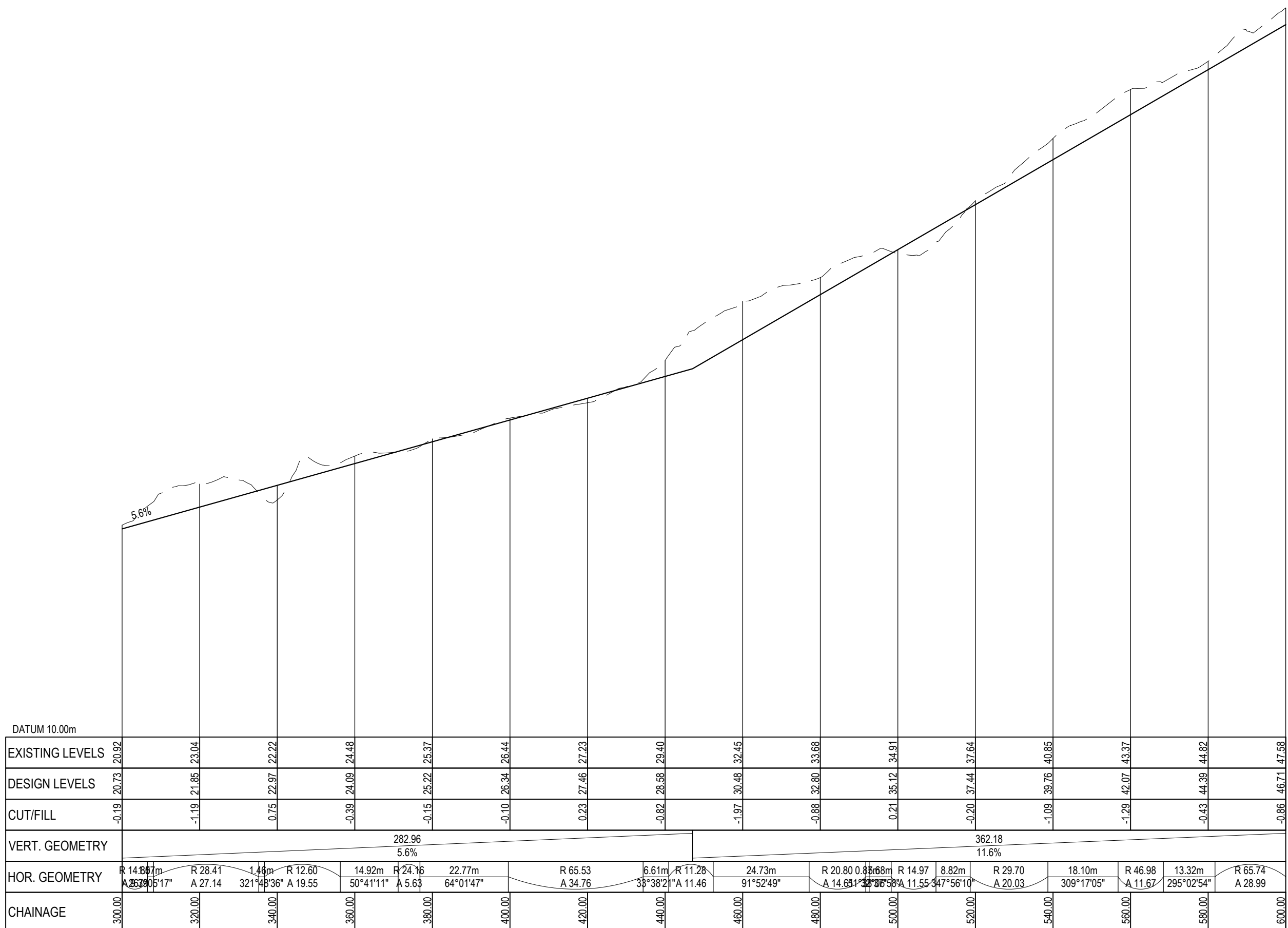
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE SHARED PATH LONGSECTIONS

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C30 ROADING LS.DWG
Drawing no.	C328-1
Rev	A

RESOURCE CONSENT

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



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

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

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

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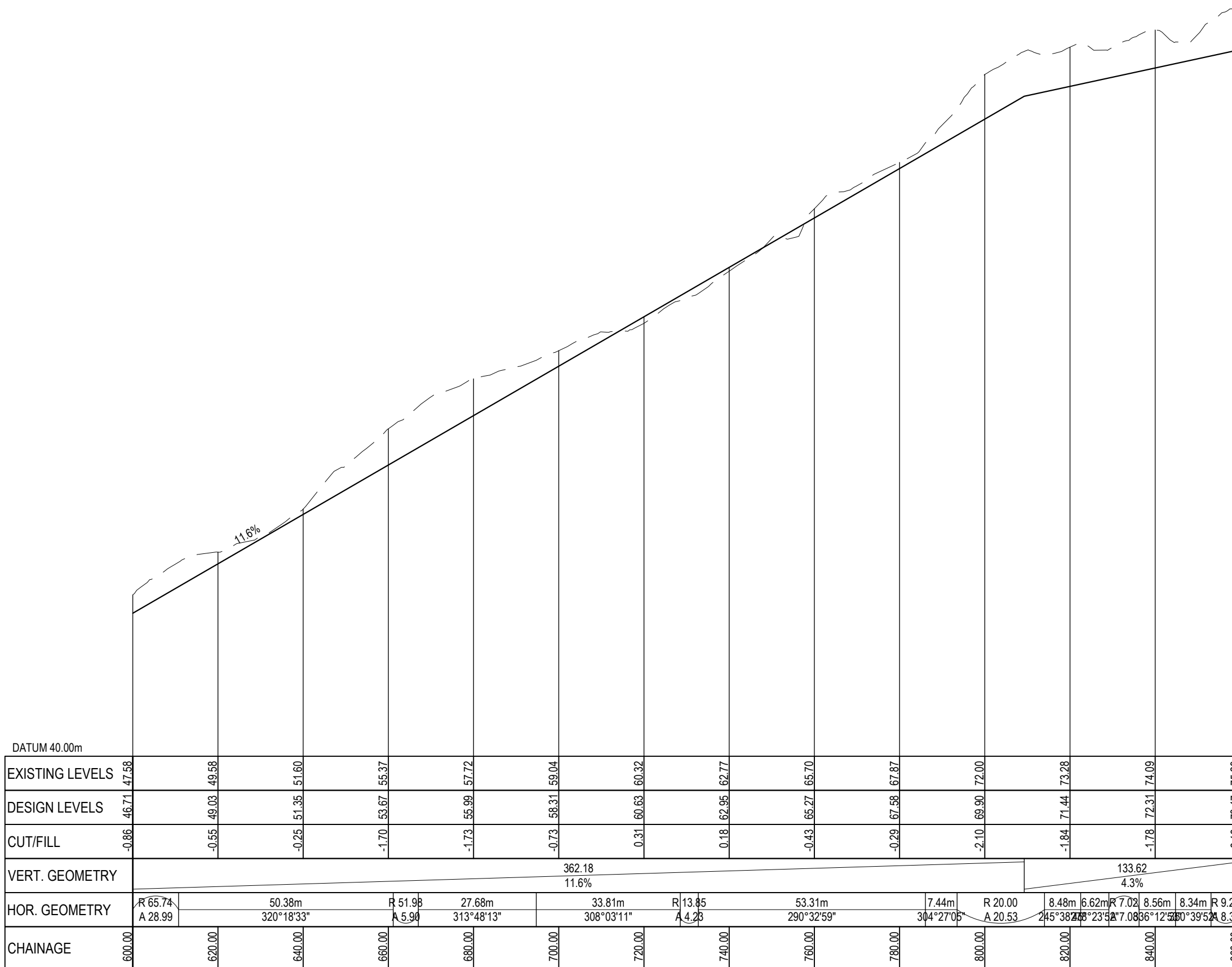
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE SHARED PATH LONGSECTIONS

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

RESOURCE CONSENT

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



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

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

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



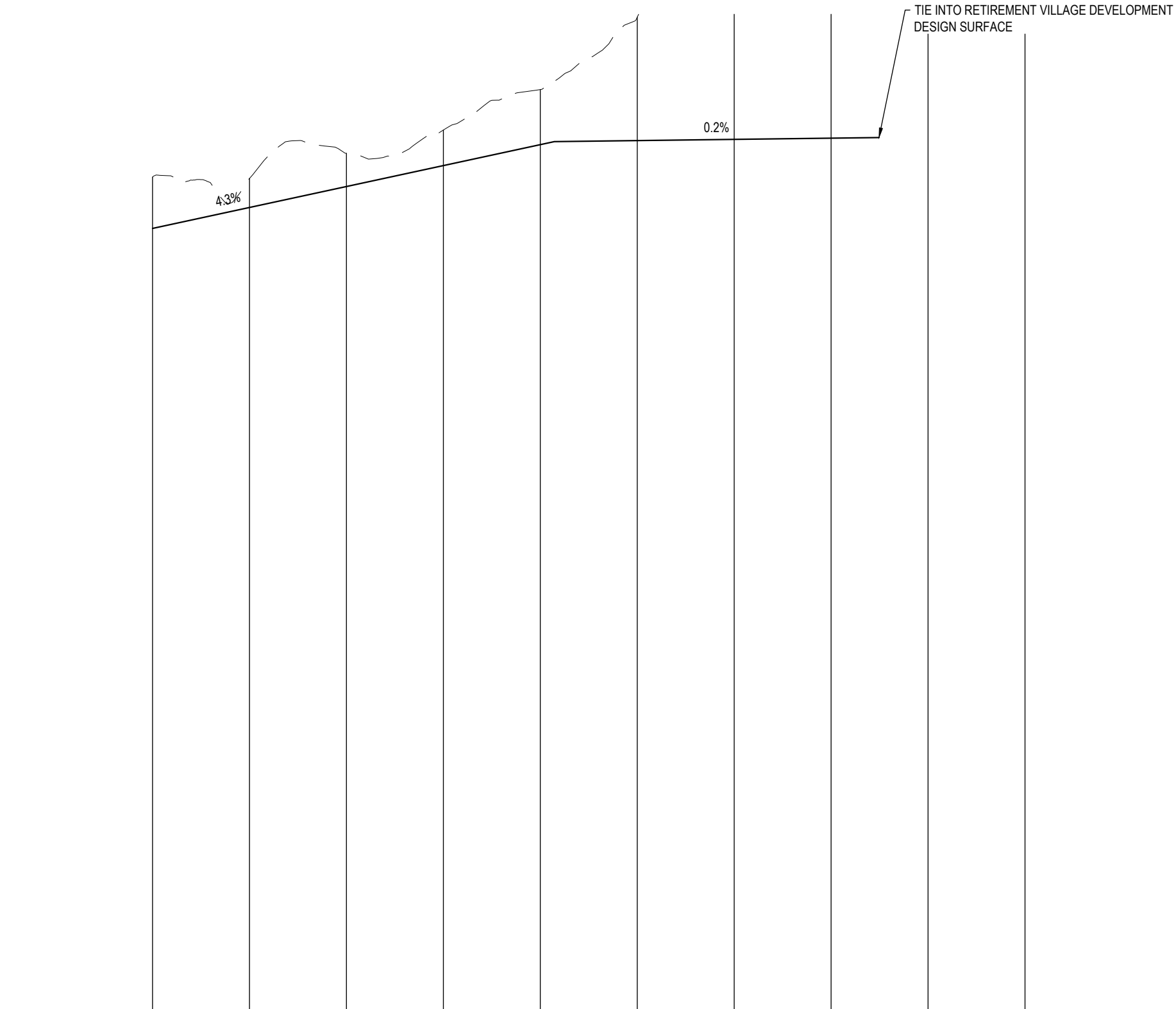
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE SHARED PATH LONGSECTIONS

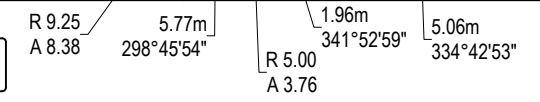
Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C328-3
Rev	A

RESOURCE CONSENT

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



DATUM 40.00m	
EXISTING LEVELS	75.29 75.23 76.27 77.23 78.89 81.88 85.45 85.31 84.46 84.50
DESIGN LEVELS	73.17 74.03 74.90 75.76 76.62 76.79 76.84 76.89 84.46 84.50
CUT/FILL	-2.12 -1.20 R 20.00 A 0.34 -1.37 -1.47 -2.27 -5.09 -8.60 -8.42 0.00 0.00
VERT. GEOMETRY	R 20.00 A 6.00 R 21.84 A 3.82 133.62 4.3% 66.99 0.2%
HOR. GEOMETRY	5.90m 324°42'00" 14.81m 333°44'40" R 25.00 A 26.43 74.54m 34°19'43" 40.93m 299°38'33"
CHAINAGE	860.00 880.00 900.00 920.00 940.00 960.00 980.00 1000.00 1020.00 1040.00 1050.81



PR SHARED PATH LONGSECTION (CH 860 - CH 1050.81)
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

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

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

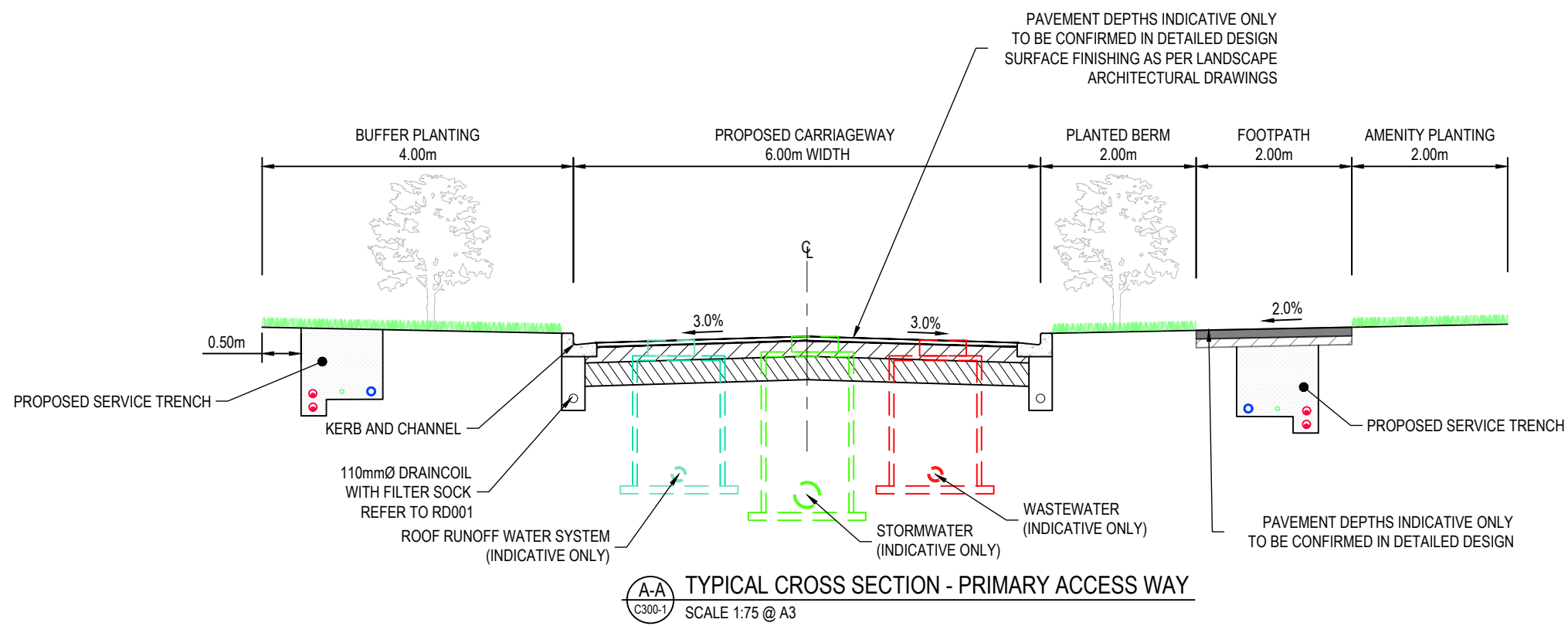


Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE SHARED PATH LONGSECTIONS

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C320 ROADING LS.DWG
Drawing no.	C328-4
Rev	A

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



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

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

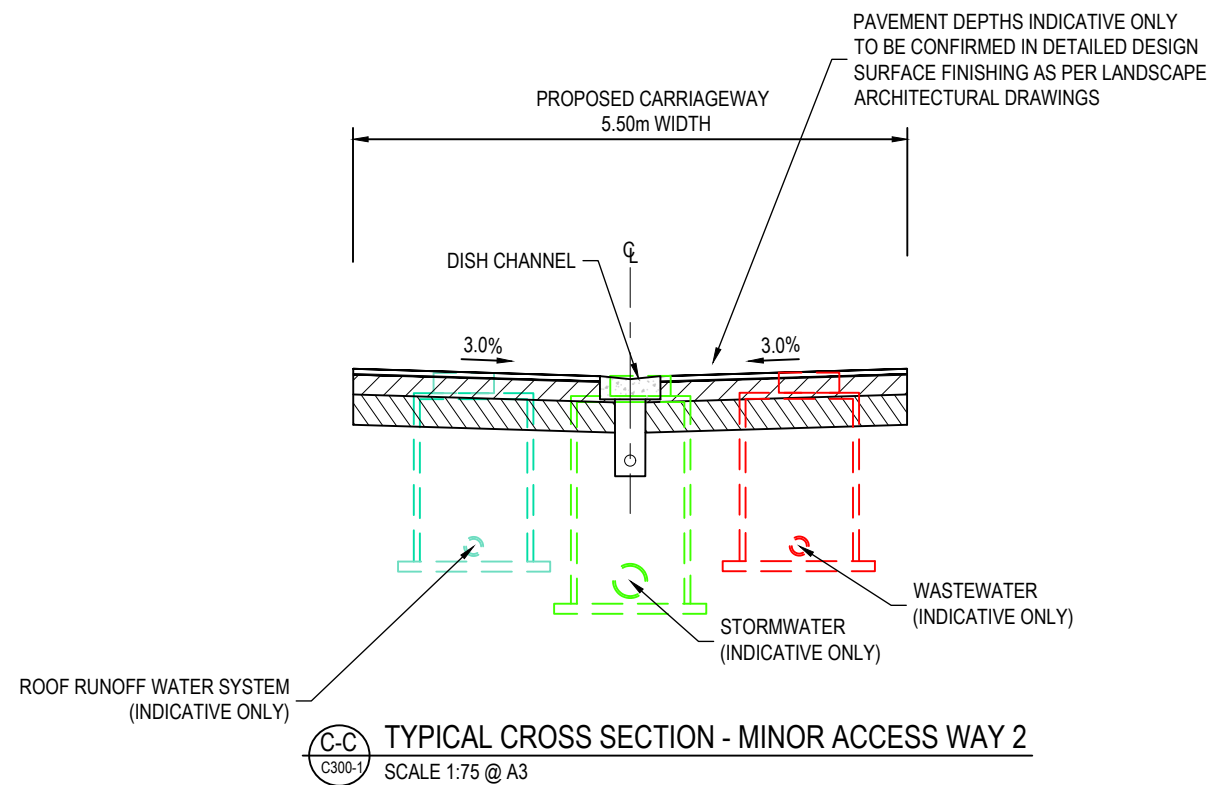
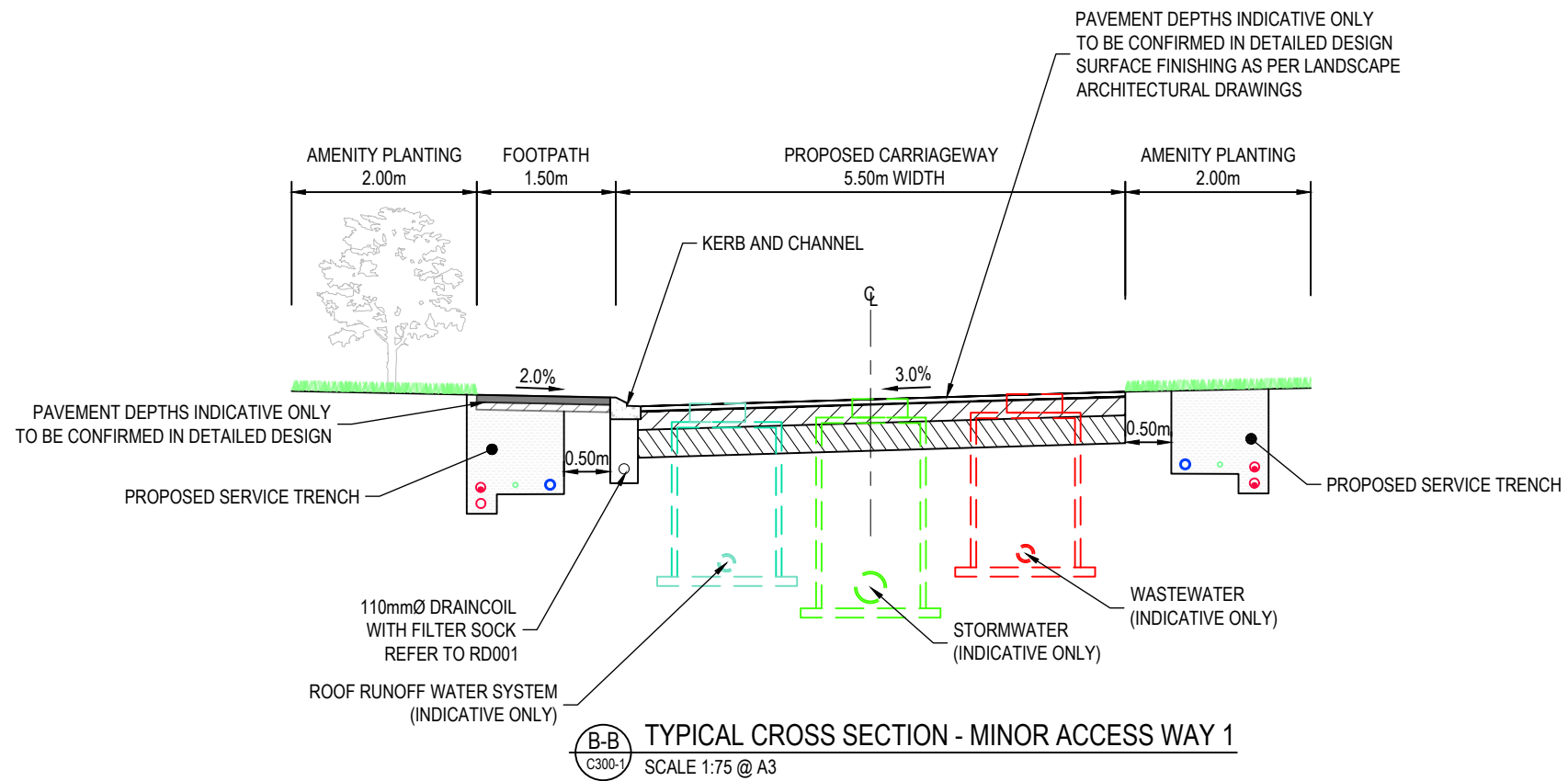
M Maven Associates
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 Auckland 1023

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.	C340
Rev	A

RESOURCE CONSENT



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

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

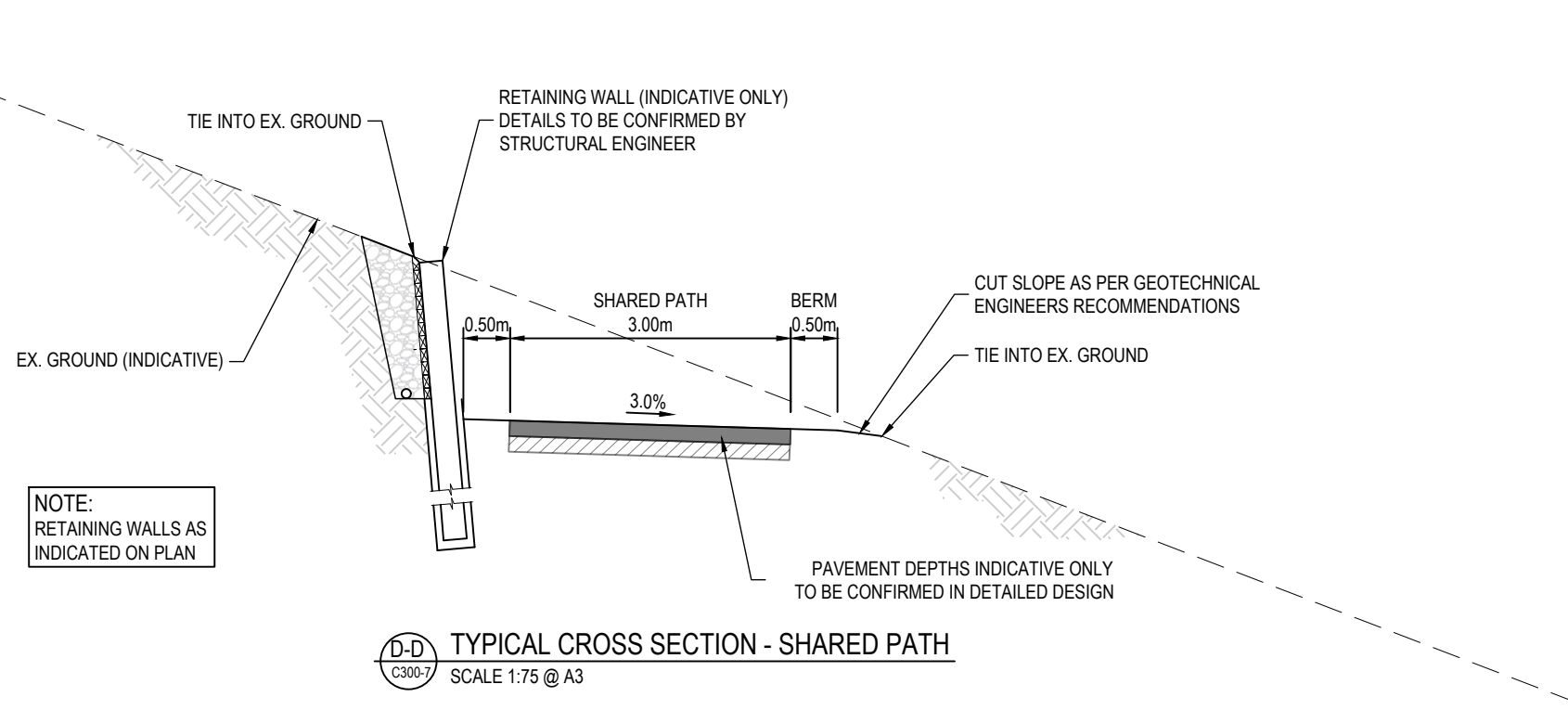


Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE 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

RESOURCE CONSENT



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
Survey	LiDAR		02/2022
Design	AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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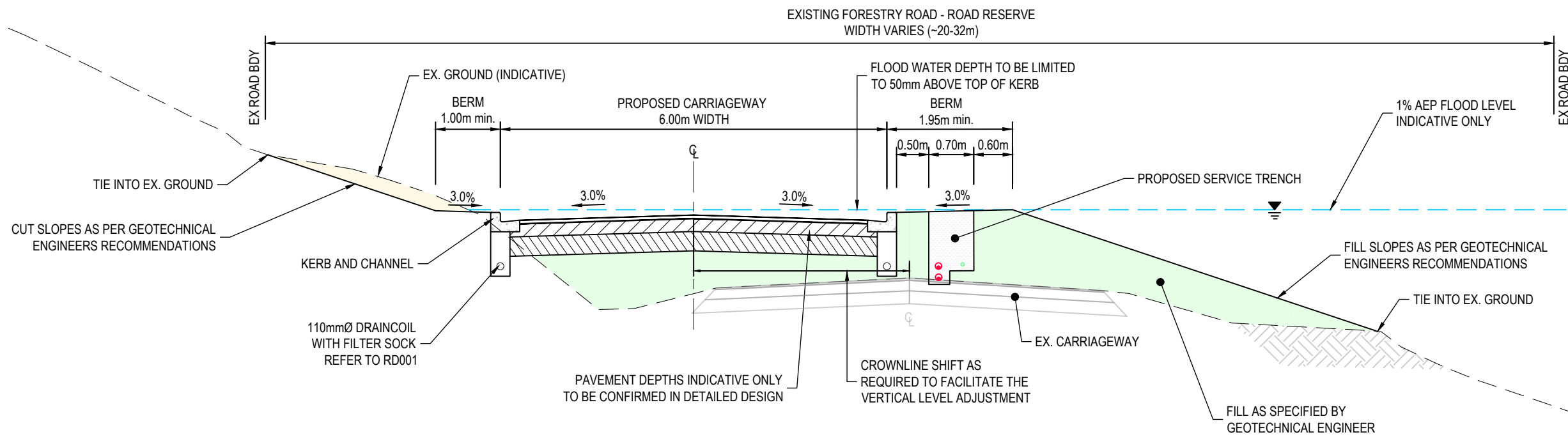
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

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

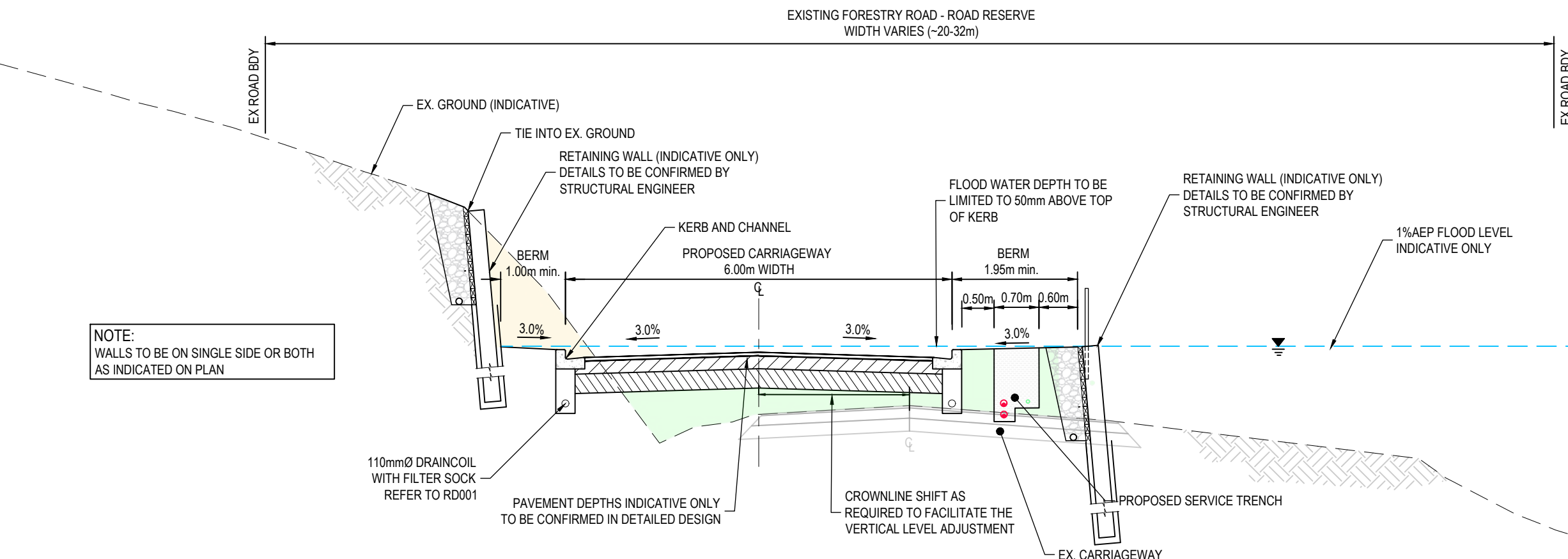
RESOURCE CONSENT

DATE: 4/2025 FILEPATH: 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



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

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

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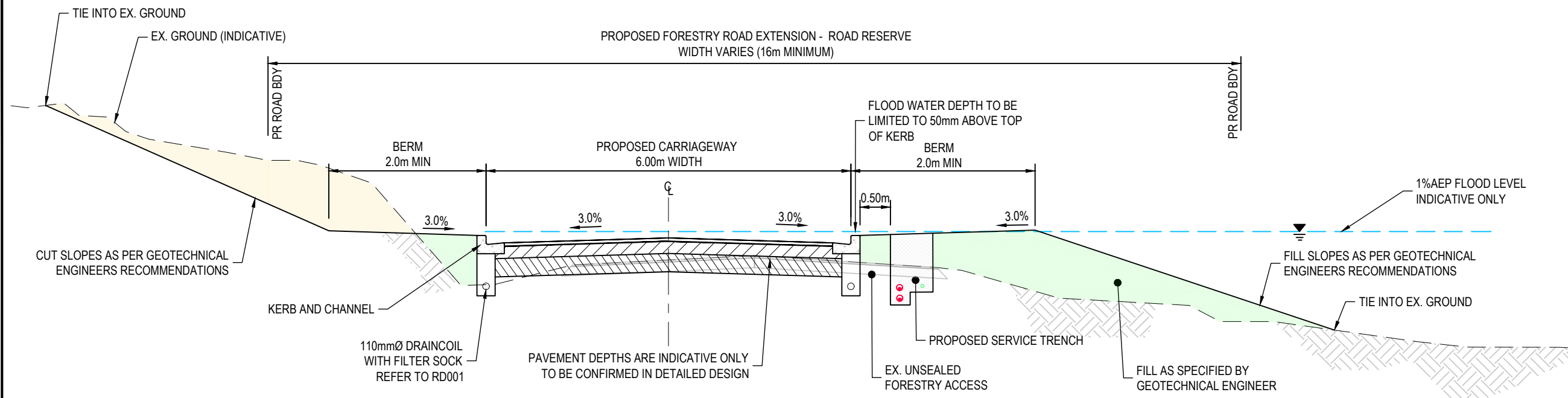
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

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.	C343
Rev	A

RESOURCE CONSENT

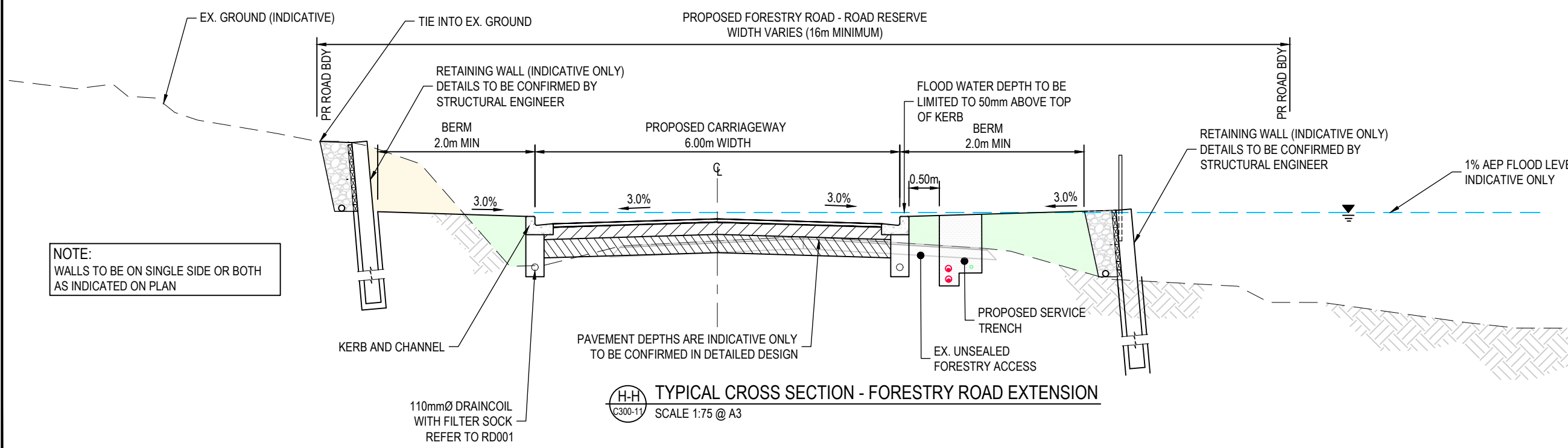
DATE: 4/2025 FILEPATH: F:\MVEN\PROJECTS\RD001 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C340-ROADING X SECTIONS.DWG



G-G
C300-11
TYPICAL CROSS SECTION - FORESTRY ROAD EXTENSION
SCALE 1:75 @ A3

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

Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025



H-H
C300-11
TYPICAL CROSS SECTION - FORESTRY ROAD EXTENSION
SCALE 1:75 @ A3

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

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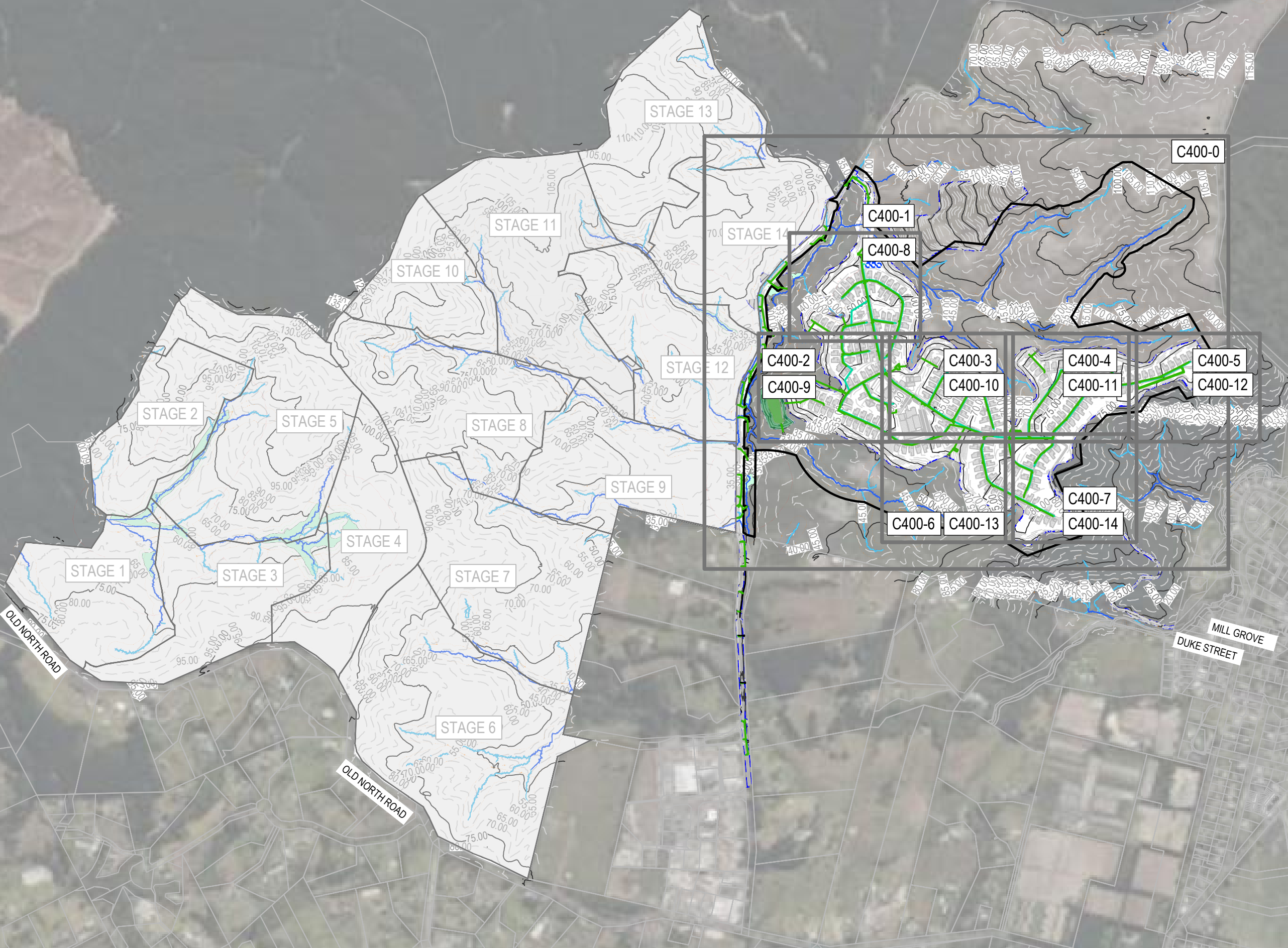
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

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

RESOURCE CONSENT

DATE: 03/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\RDING X SECTIONS.DWG



- 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
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

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



PROPOSED WATER QUALITY TREATMENT FOR ROADS

Outfall/ RG	Catchment	Proposed Raingarden Footprint area m ²	Treatment Type	Number of Cartridges Required	Storm Filter 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
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 - PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING GREATER THAN 20% WEAK CONCRETE BEDDING (7MPa PLUS ANTI SCOUR BLOCKS AT 6m CRS).
 - 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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 - 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
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 - 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

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

RESOURCE CONSENT

DATE: 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

- 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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LEGEND

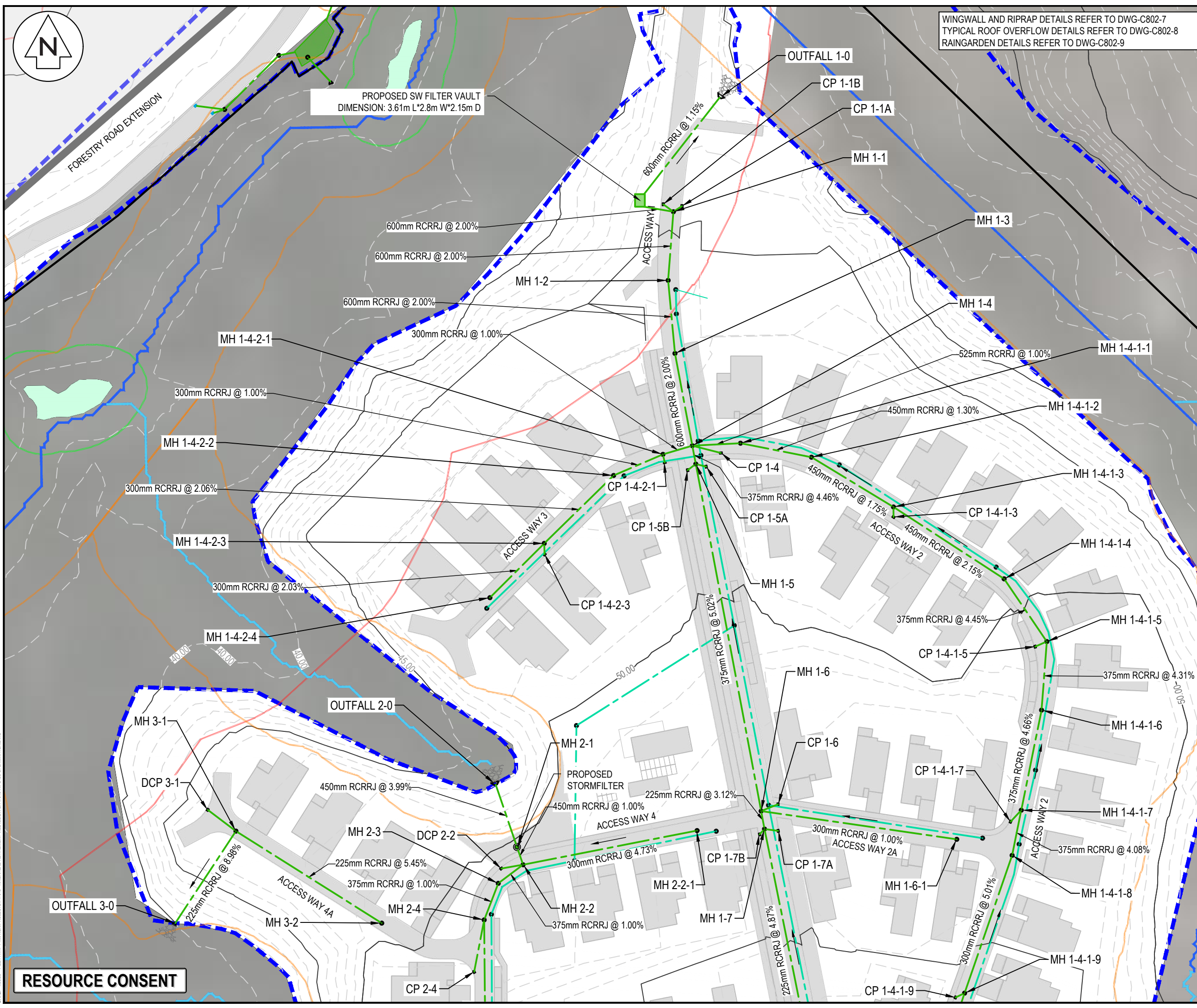
	EX BDY
	PR BDY
	EX STORMWATER
	PR STORMWATER ROAD
	PR STORMWATER ROOF
	PR EXTENT WORK
	EX/PR SWMH (ROAD/ROOF)
	PR DOUBLE/ SINGLE SWCP
	PR SW RAINGARDEN
	RIPARIAN YARD 20m SETBACK
	WETLAND AREA 100m SETBACK
	WETLAND AREA 10m SETBACK
	EX STREAMS

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

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: 4/2025 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

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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- LEGEND
- EX BDY
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 - EX/PR SWMH (ROAD/ROOF)
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 - 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

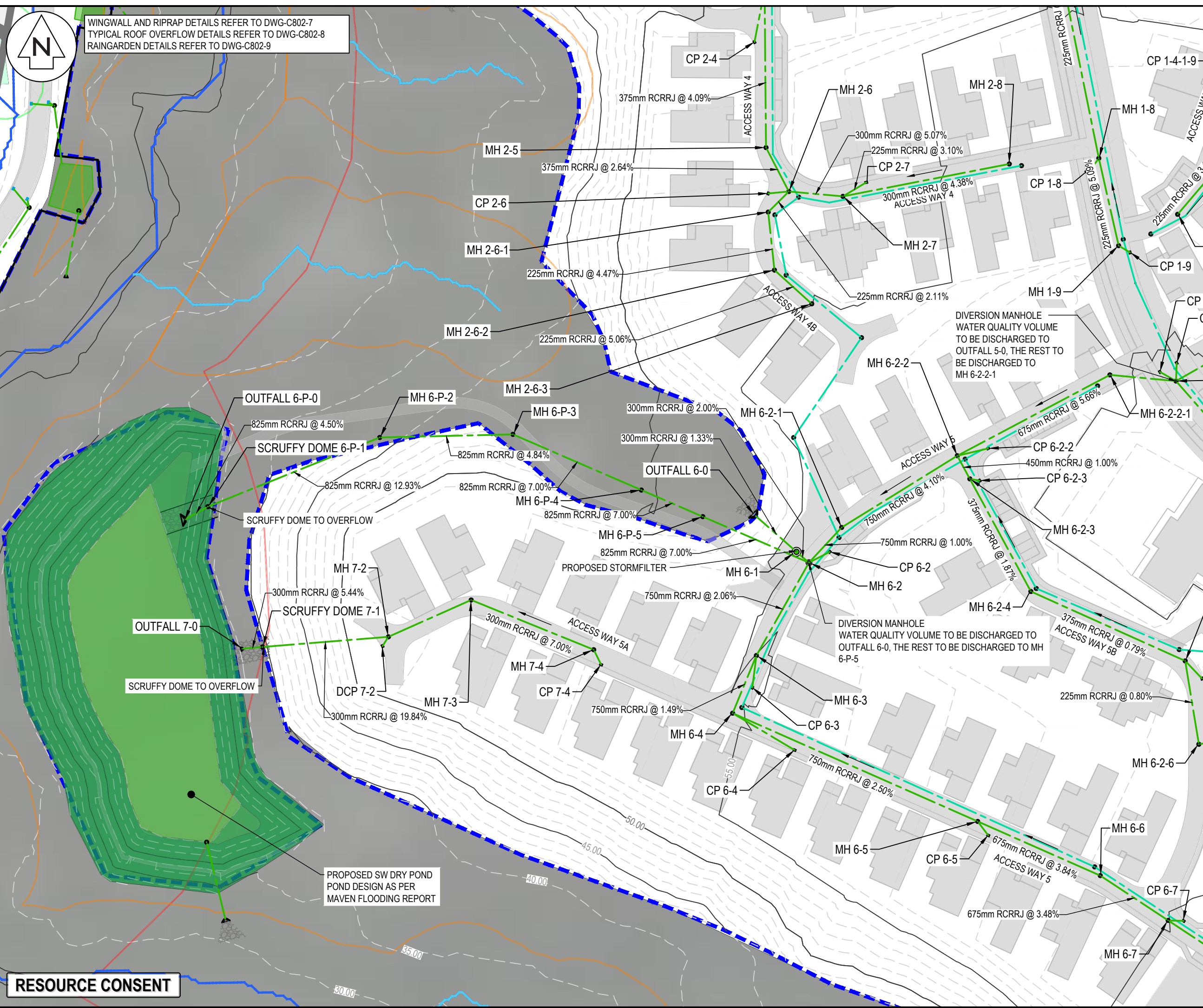
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

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

RESOURCE CONSENT

DATE: 4/2025 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

- NOTES
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- LEGEND
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 - EX/PR SWMH (ROAD/ROOF)
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 - WETLAND AREA 10m SETBACK
 - EX STREAMS

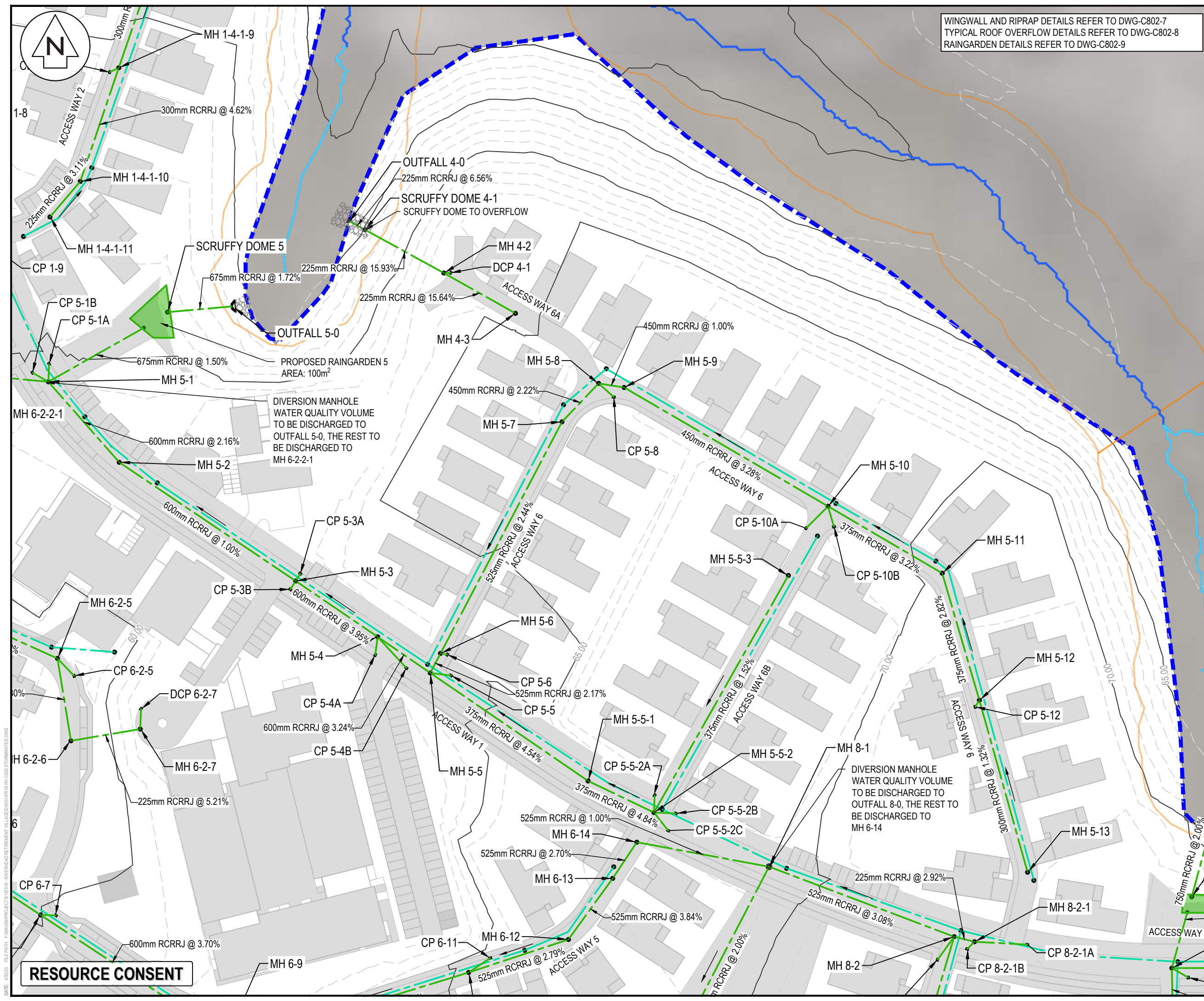
A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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Auckland 1023

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROAD STORMWATER PLAN

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

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

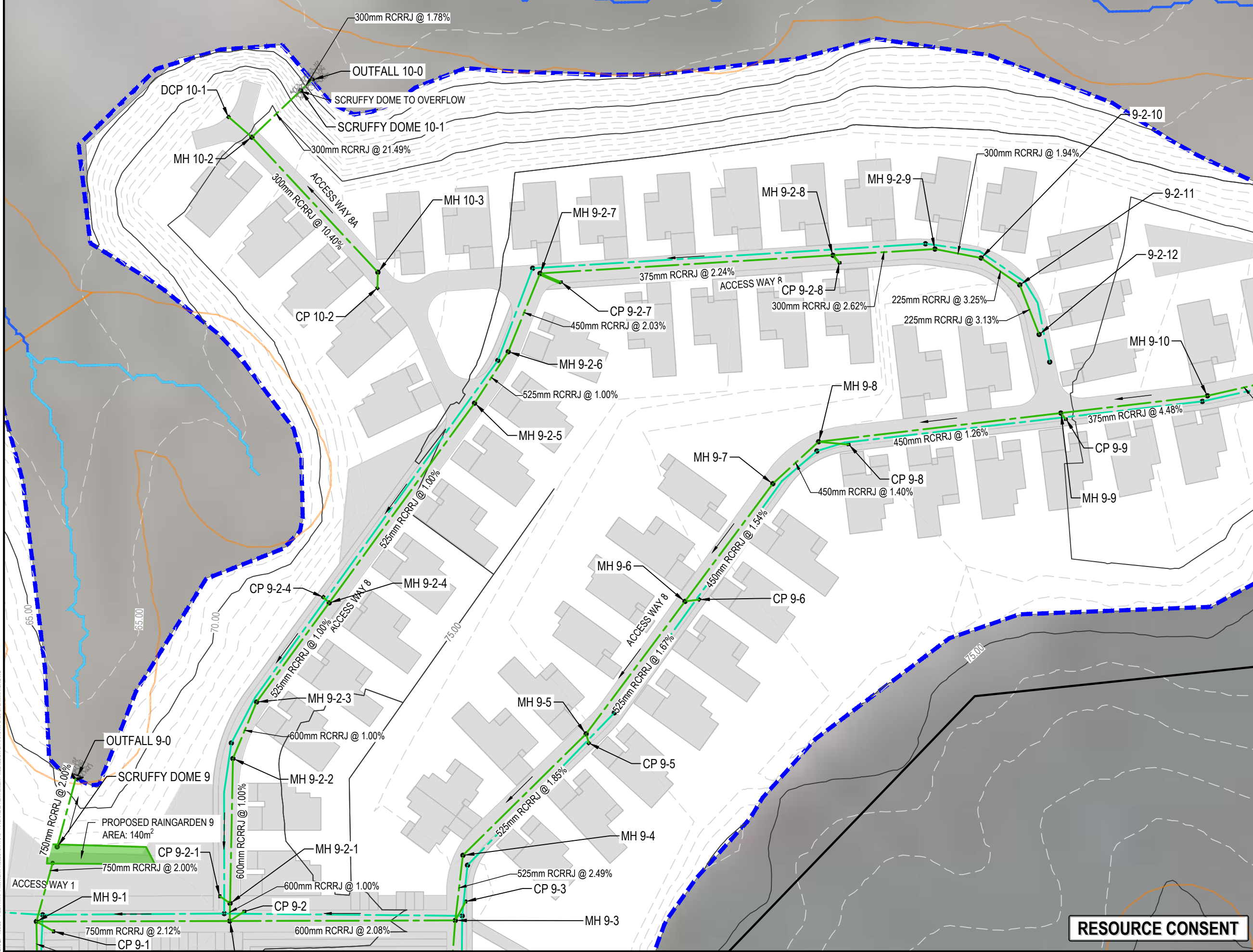
A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
	Survey	LiDAR	03/2022
	Design	AO/AYC	03/2025
	Drawn	AYC	03/2025
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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROAD STORMWATER PLAN

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



RESOURCE CONSENT

DATE: 4/03/25 FILE PATH: F:\M\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\400-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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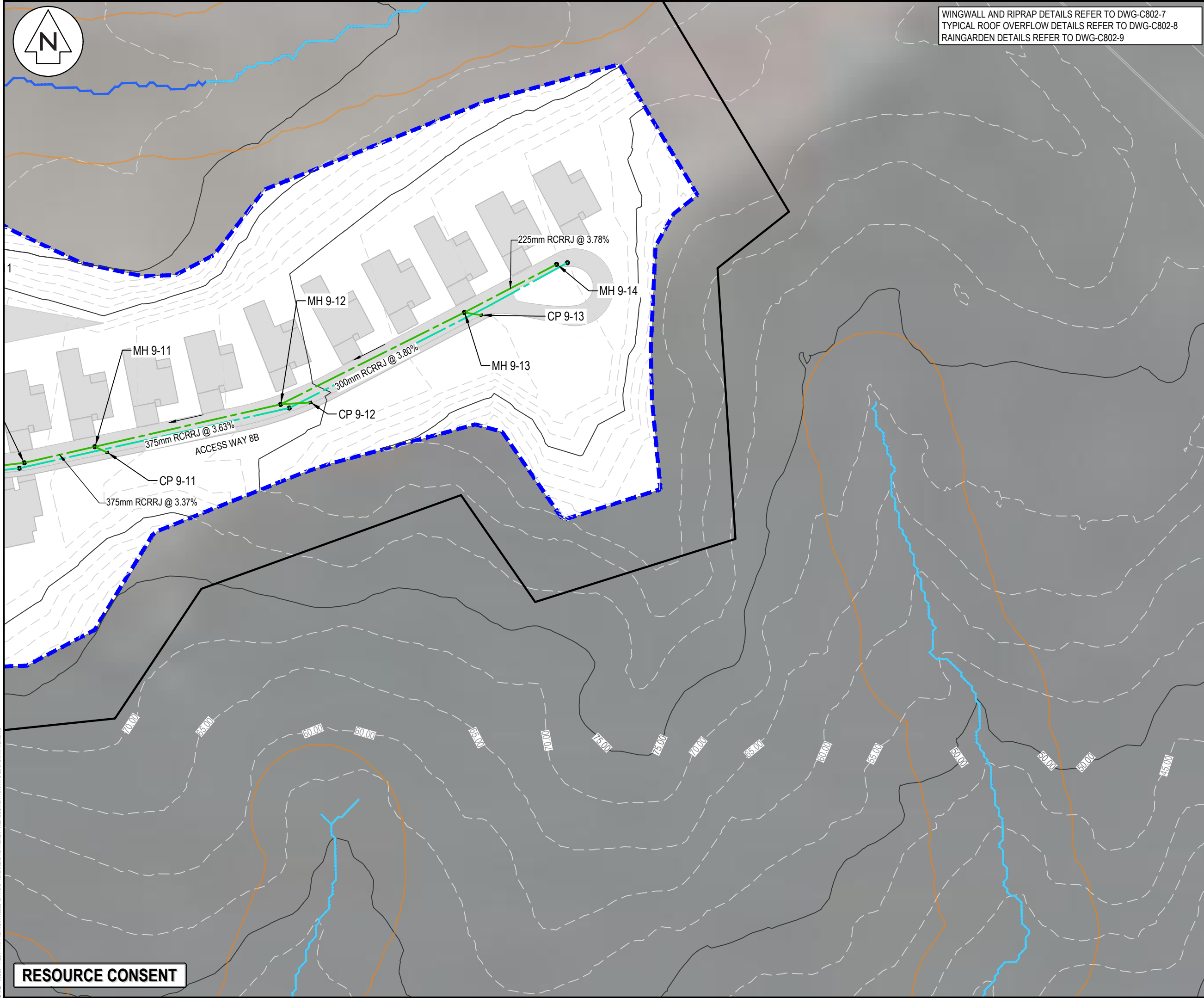
- LEGEND
- EX BDY
 - PR BDY
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Rev	Description	By	Date
A	RESOURCE CONSENT	AYC	03/2025
Survey	LiDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

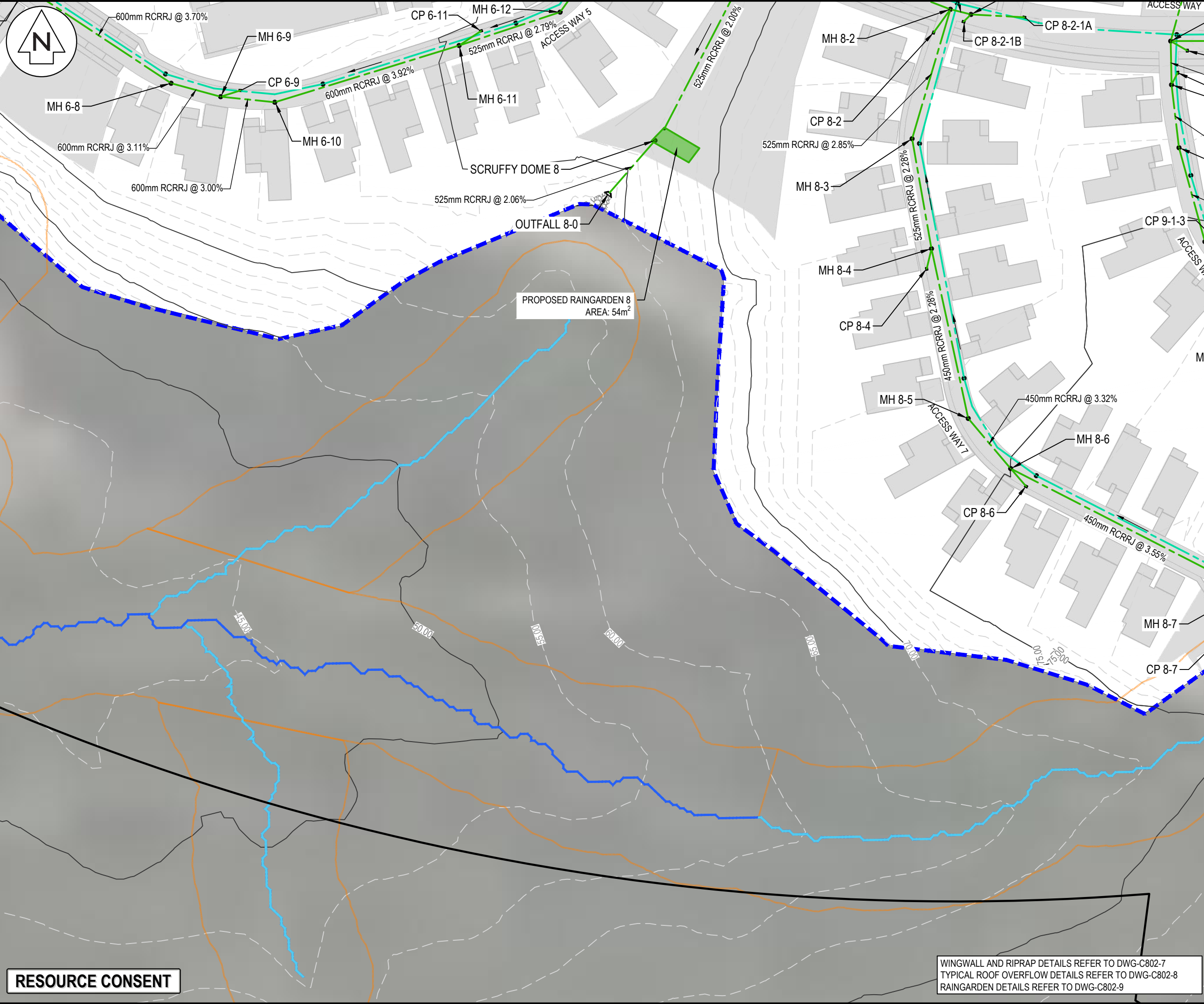
Title
RETIREMENT VILLAGE PROPOSED ROAD STORMWATER PLAN

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



RESOURCE CONSENT

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



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	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
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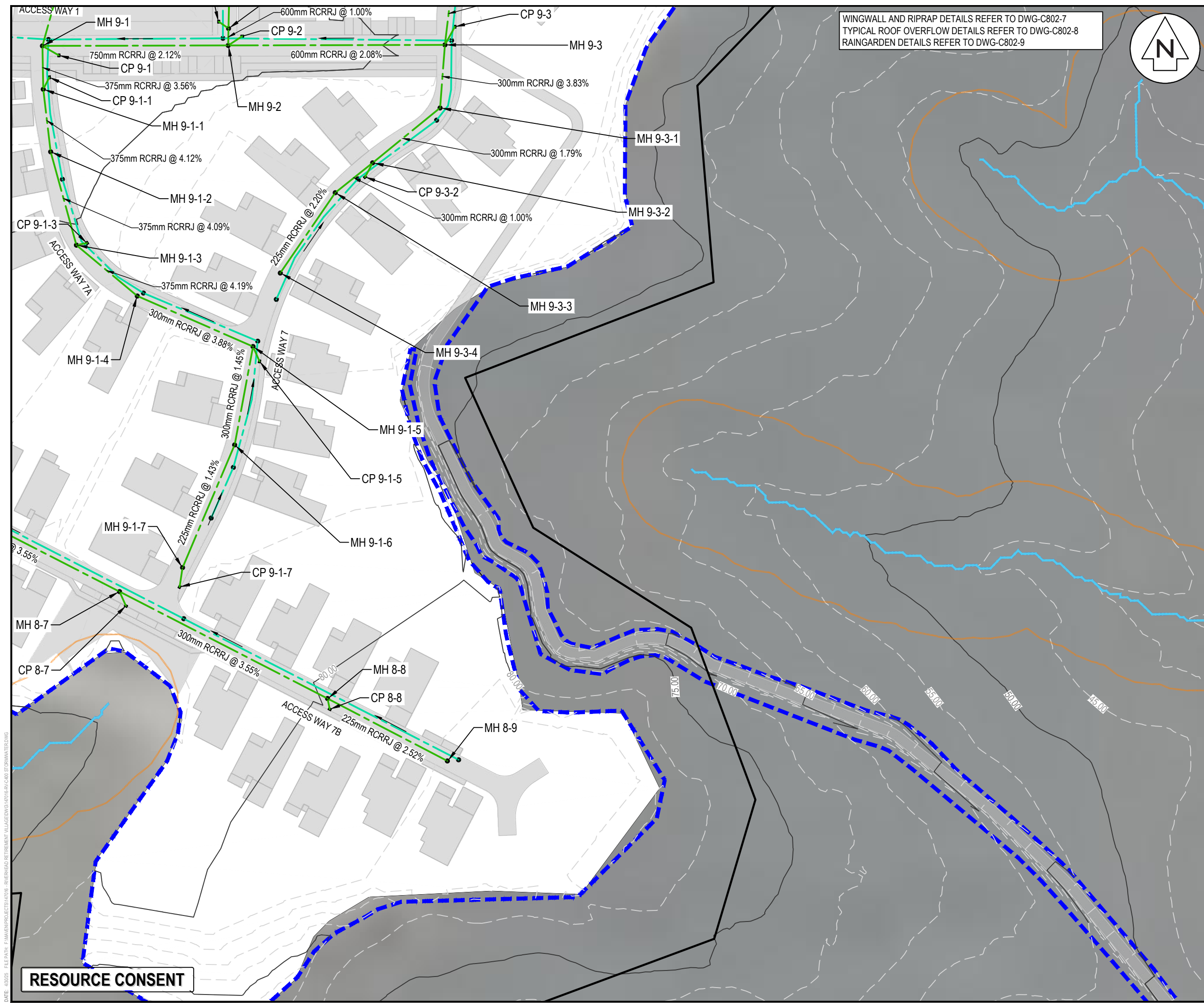
Title
RETIREMENT VILLAGE PROPOSED ROAD STORMWATER PLAN

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

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

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\4076-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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LEGEND

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PR BDY	---
EX STORMWATER	---
PR STORMWATER ROAD	---
PR STORMWATER ROOF	---
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EX/PR SWMH (ROAD/ROOF)	---
PR DOUBLE/ SINGLE SWCP	---
PR SW RAINGARDEN	---
RIPIARIAN 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
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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.	C400-7
Rev	A

RESOURCE CONSENT

DATE: 4/2025 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
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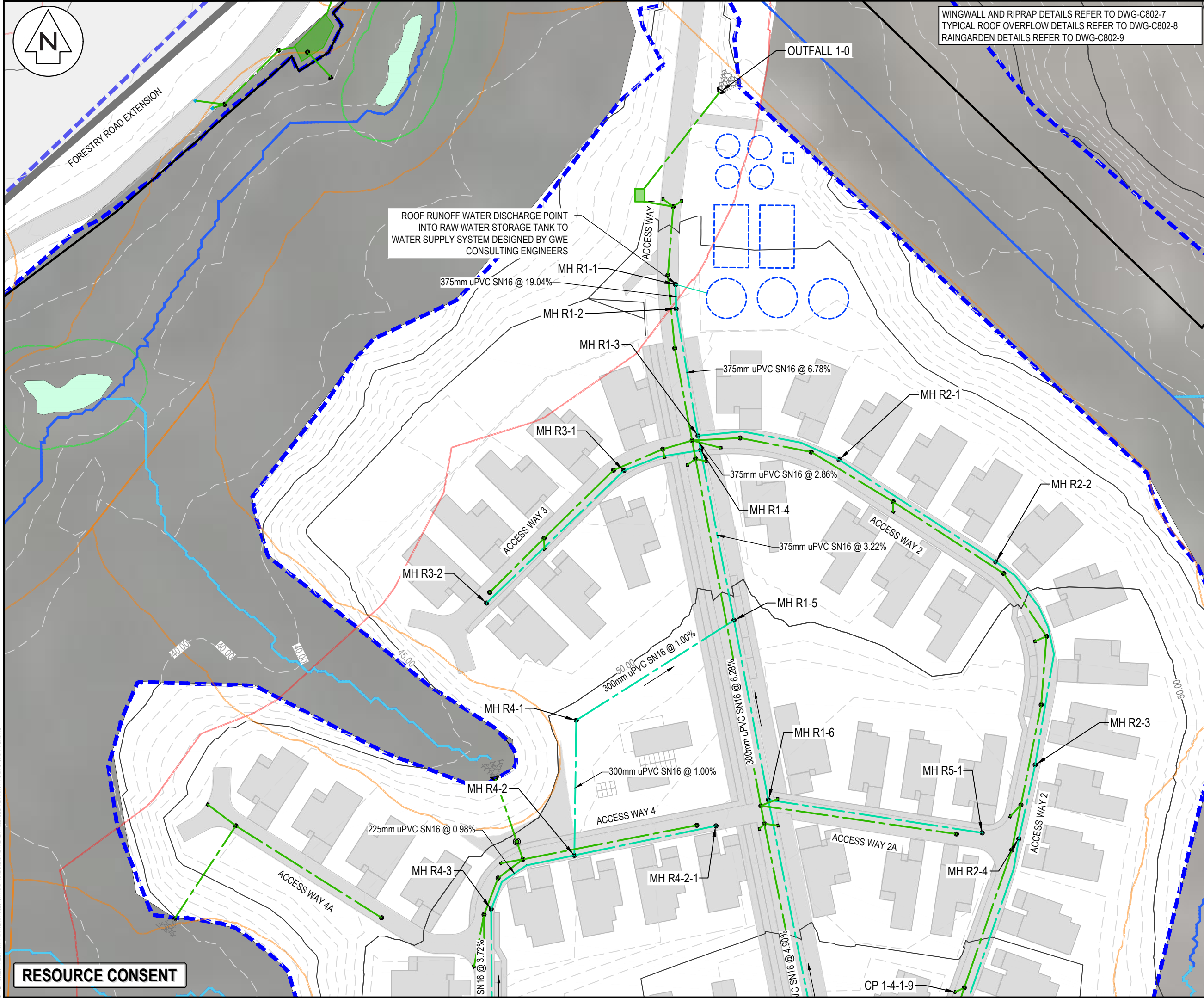
A	RESOURCE CONSENT	AYC	03/2025
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Survey	LiDAR		03/2022
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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROOF STORMWATER PLAN

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



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

RESOURCE CONSENT

DATE: 4/2025 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
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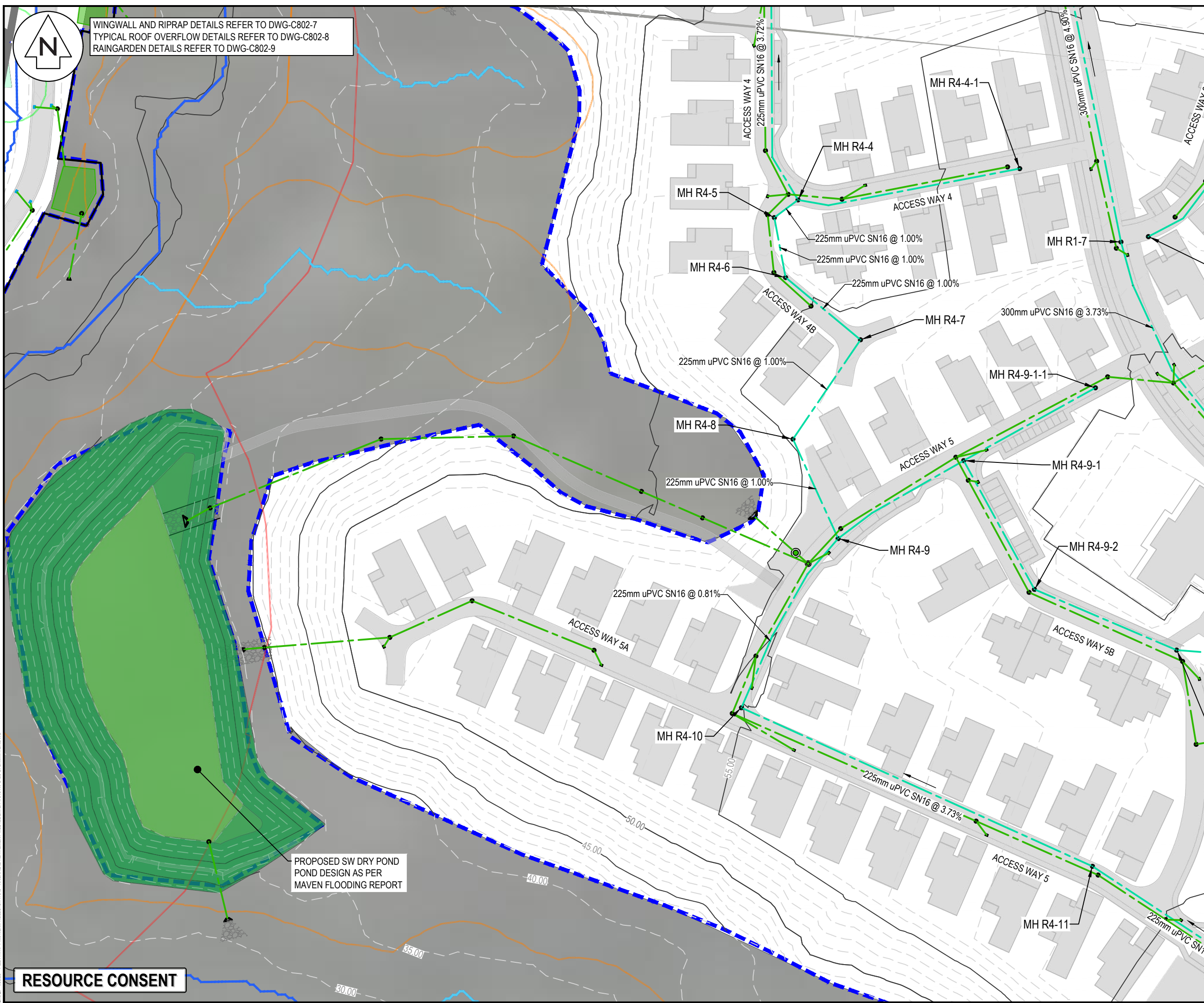
A	RESOURCE CONSENT	AYC	03/2025
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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROOF STORMWATER PLAN

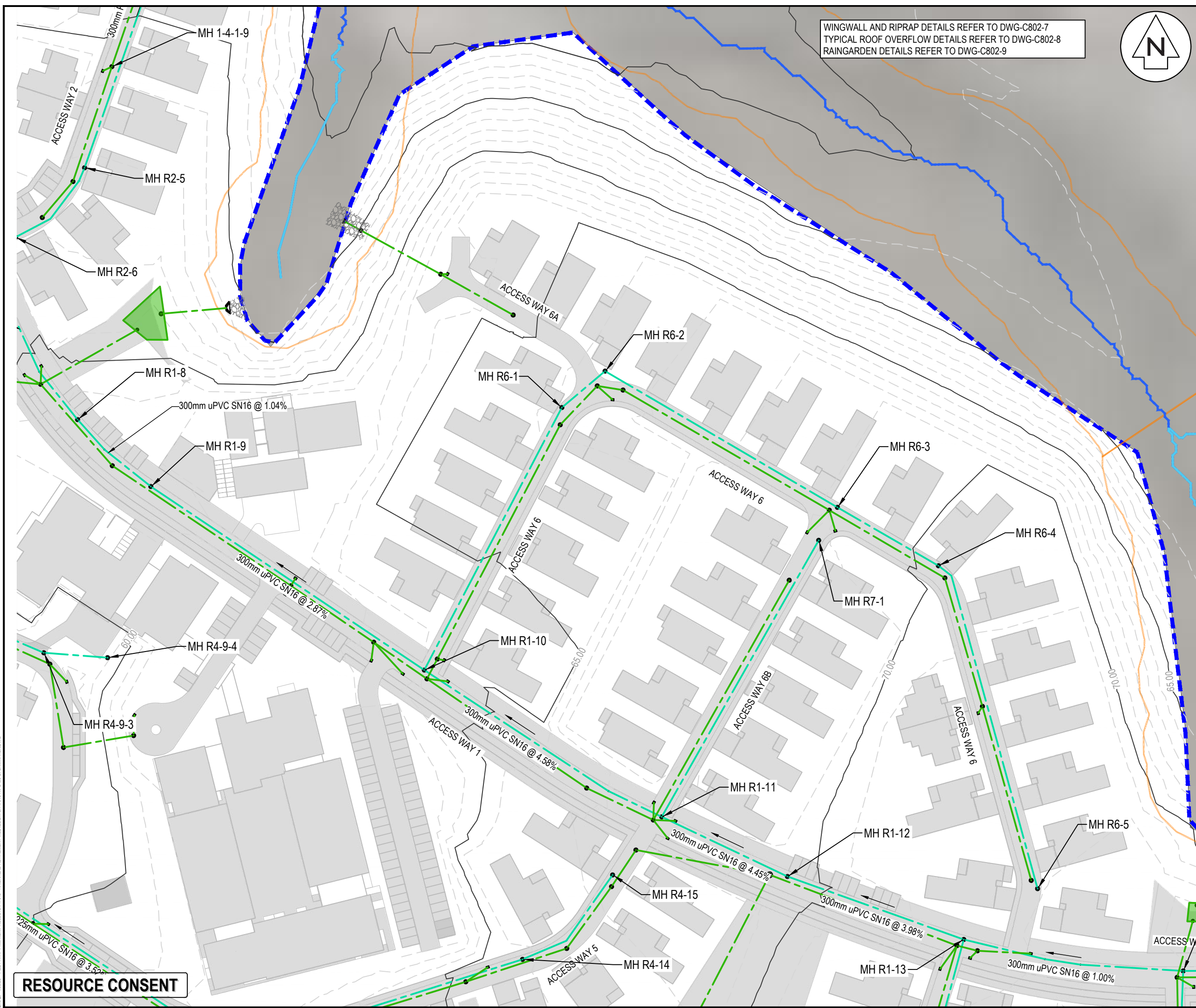
Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C400 STORMWATER.DWG
Drawing no.	C400-9
Rev	A



PROPOSED SW DRY POND
 POND DESIGN AS PER
 MAVEN FLOODING REPORT

RESOURCE CONSENT

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



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	RIPARIAN YARD 20m SETBACK
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	EX STREAMS

A	RESOURCE CONSENT	AYC	03/2025
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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.	C400-10
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\M\PROJECTS\RD\147016-RV-C400 STORMWATER.DWG



WINGWALL AND RIPRAP DETAILS REFER TO DWG-C802-7
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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.

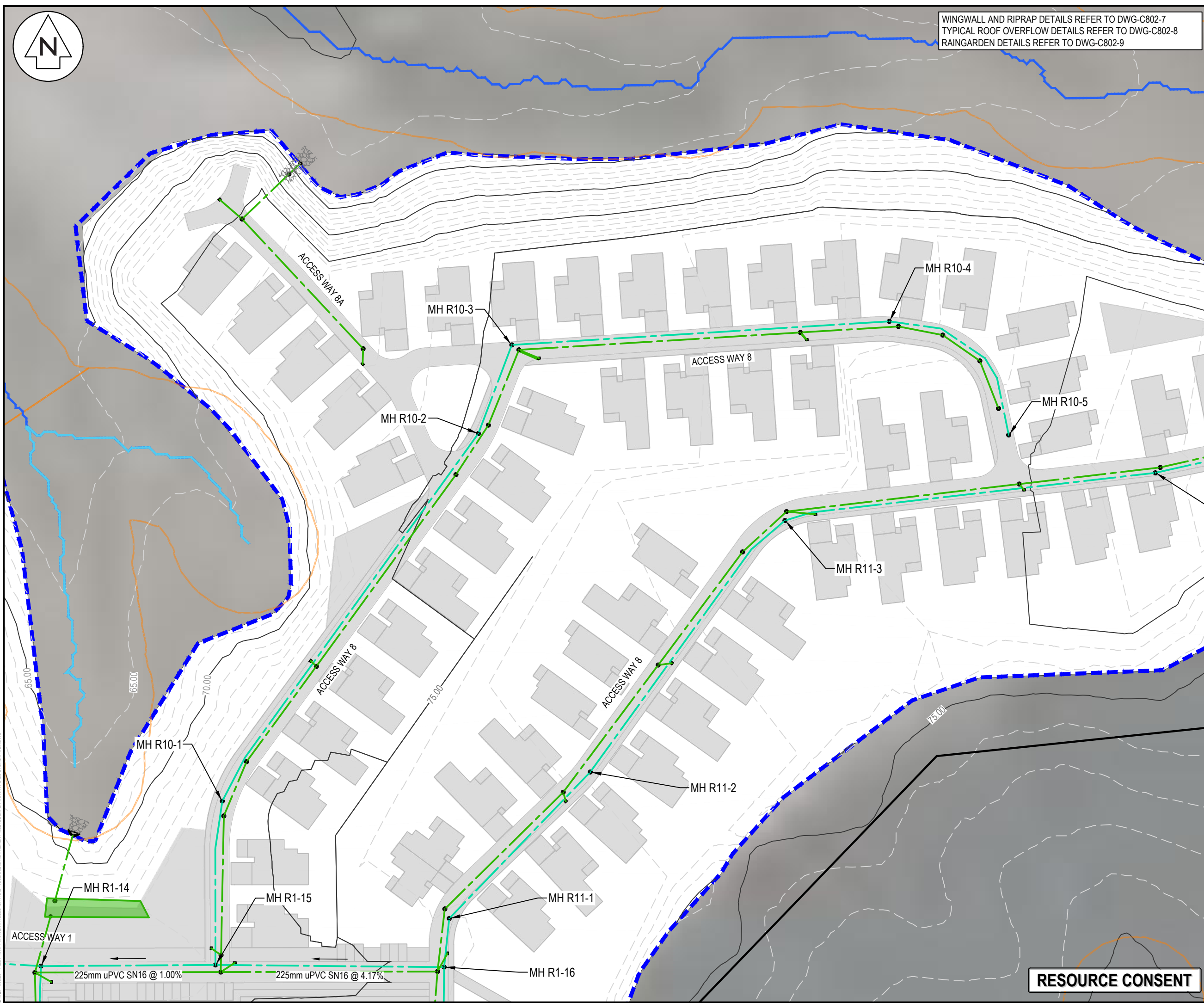
- LEGEND
- EX BDY (dashed line)
 - PR BDY (solid line)
 - EX STORMWATER (dashed green line)
 - PR STORMWATER ROAD (dashed blue line)
 - PR STORMWATER ROOF (dashed red line)
 - PR EXTENT WORK (dashed blue line)
 - EX/PR SWMH (ROAD/ROOF) (circle with cross)
 - PR DOUBLE/ SINGLE SWCP (circle with cross)
 - PR SW RAINGARDEN (green rectangle)
 - RIPARIAN YARD 20m SETBACK (orange line)
 - WETLAND AREA 100m SETBACK (red line)
 - WETLAND AREA 10m SETBACK (green line)
 - EX STREAMS (blue line)

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 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: 4/2025 FILE PATH: F:\MVEN\PROJECTS\RDTR - RIVERHEAD RETIREMENT VILLAGE\DWG\40016-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.
 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

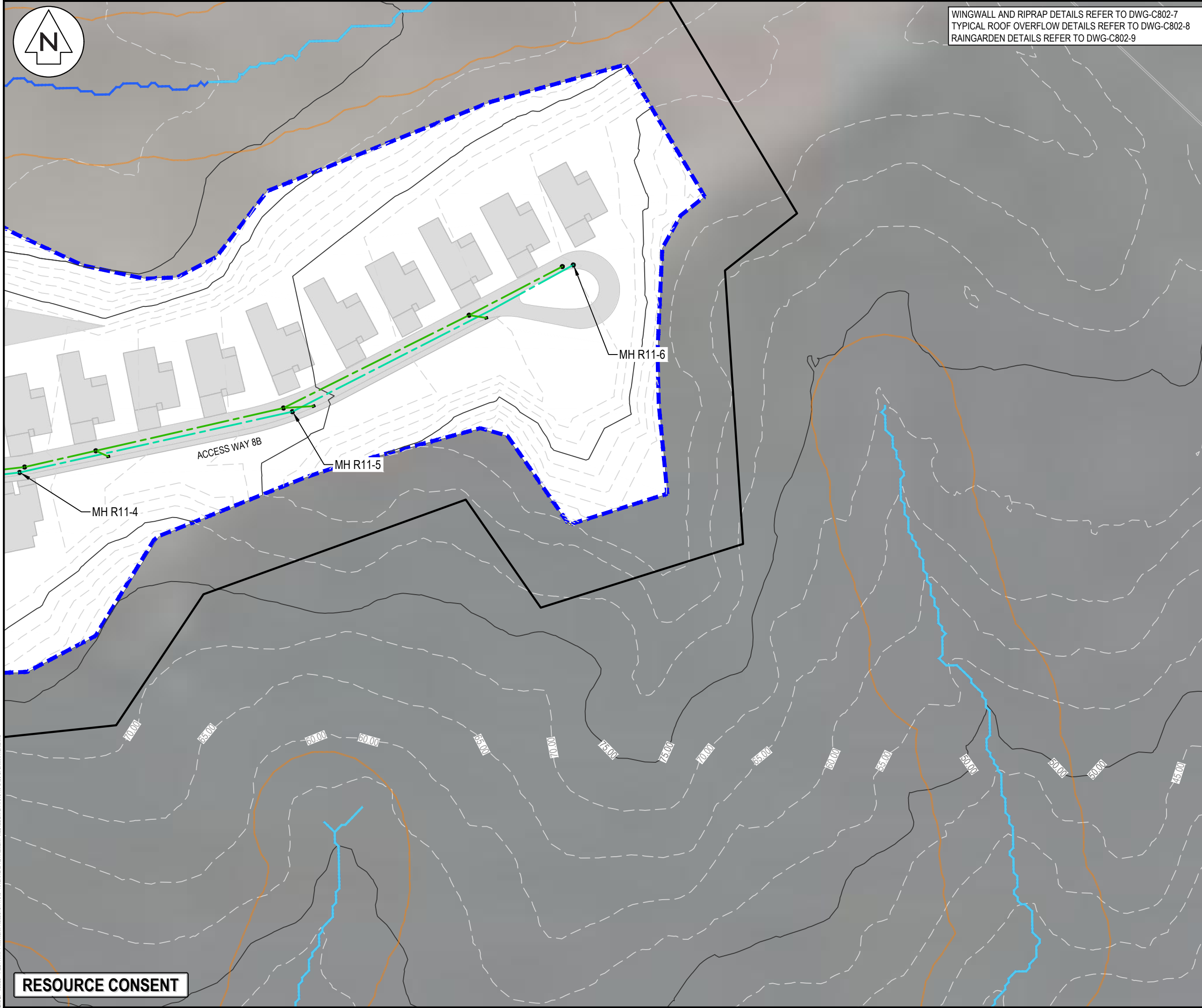
A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LiDAR		03/2022
Design	AO/AYC		03/2025
Drawn	AYC		03/2025
Checked	RW		03/2025

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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

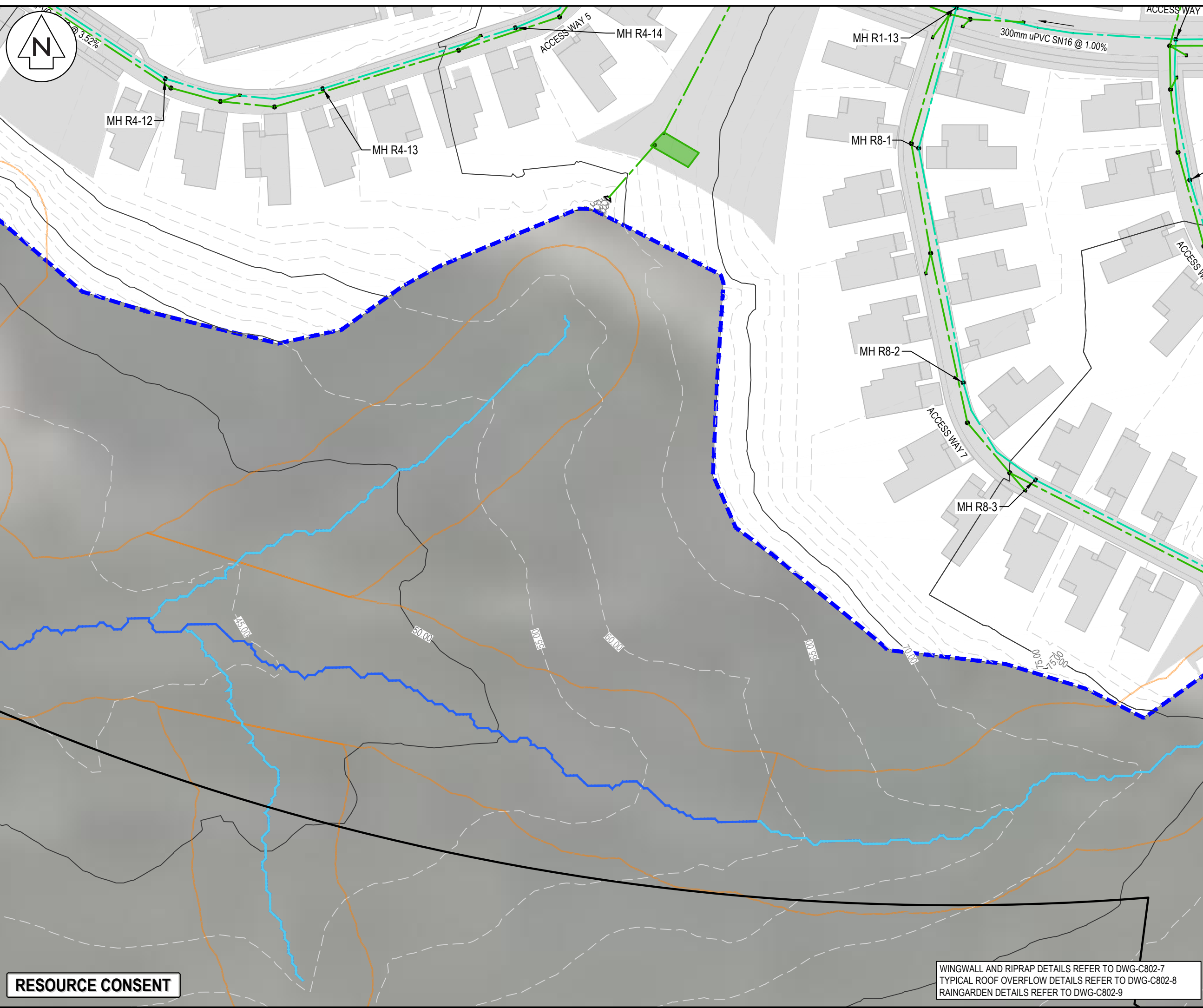
Title
RETIREMENT VILLAGE PROPOSED ROOF STORMWATER PLAN

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



DATE: 4/2025 FILE PATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 40716-RV-C400 STORMWATER.DWG

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.
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 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

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

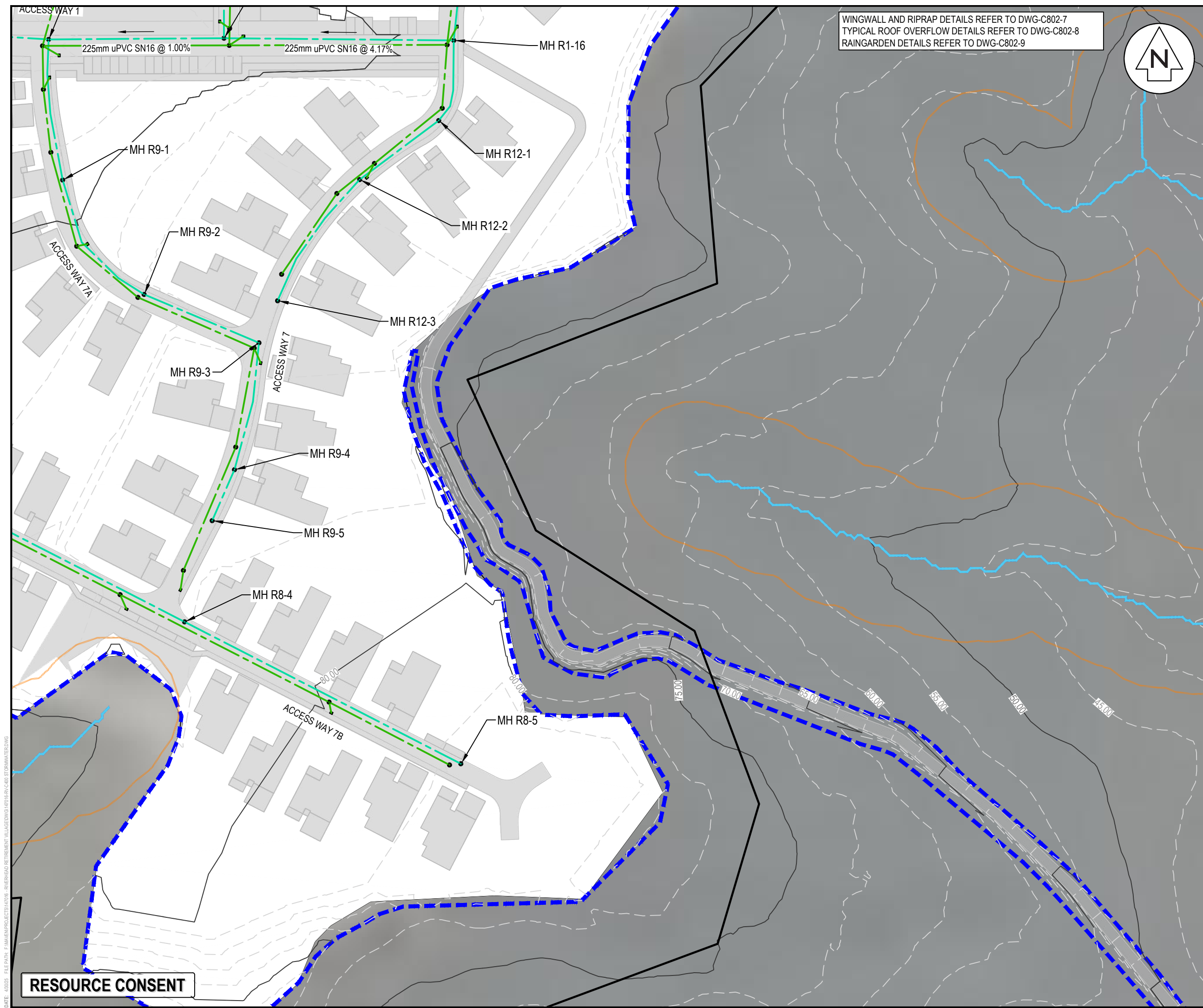
Title
RETIREMENT VILLAGE PROPOSED ROOF STORMWATER PLAN

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

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\400-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.
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 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

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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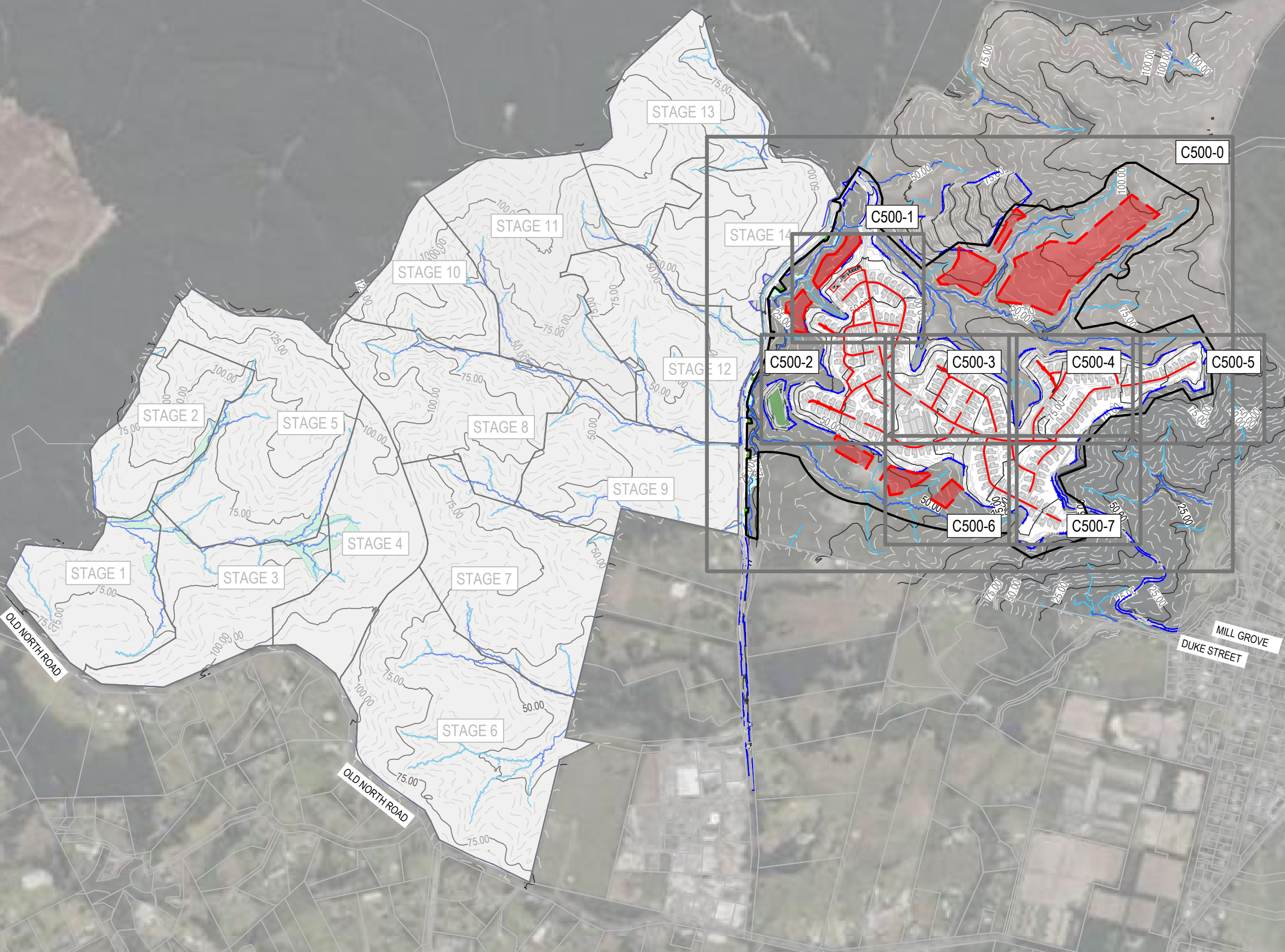
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED ROOF STORMWATER PLAN

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

RESOURCE CONSENT

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



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000
 3. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946.
 4. ORIGIN OF LEVELS = SM XXXX SO XXXX(XXXX) PUBLISHED RL=XX.XX. SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
 5. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 6. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
 7. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
 8. SEDIMENT CONTROL SHALL BE INSTALLED AND OPERATIONAL BEFORE EARTHWORKS START ONSITE IN ACCORDANCE WITH COUNCIL STANDARDS.
 9. CONTRACTOR SHALL PROVIDE AS-BUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECENT VOLUMES TO ENGINEER.
 10. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

	EX BDY
	PR BDY
	EX WASTEWATER
	PR WASTEWATER
	EX/PR WMMH
	PR WW LOT CON
	PR DISPOSAL FIELD
	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	KH/AYC	03/2025
	Drawn	KH/AYC	03/2025
	Checked	RW/KH	03/2025

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROP. WASTEWATER OVERVIEW PLAN

Project no.	147016
Scale	1:10,000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C500 WASTEWATER.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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).
 3. 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.
 4. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 5. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS, ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 6. ALL MANHOLES ARE TO BE 1050mmØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 7. ALL LINES ARE TO BE MIN. 150mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 8. ALL LOT CONNECTION TO BE MIN. 100mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 9. 150mmØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100mmØ ON A 150mmØ LUNDEN JUNCTION AND BLANK CAP.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY
 - PR BDY
 - EX WASTEWATER
 - PR WASTEWATER
 - EX/PR WWMH
 - PR WW LOT CON
 - PR DISPOSAL FIELD
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS

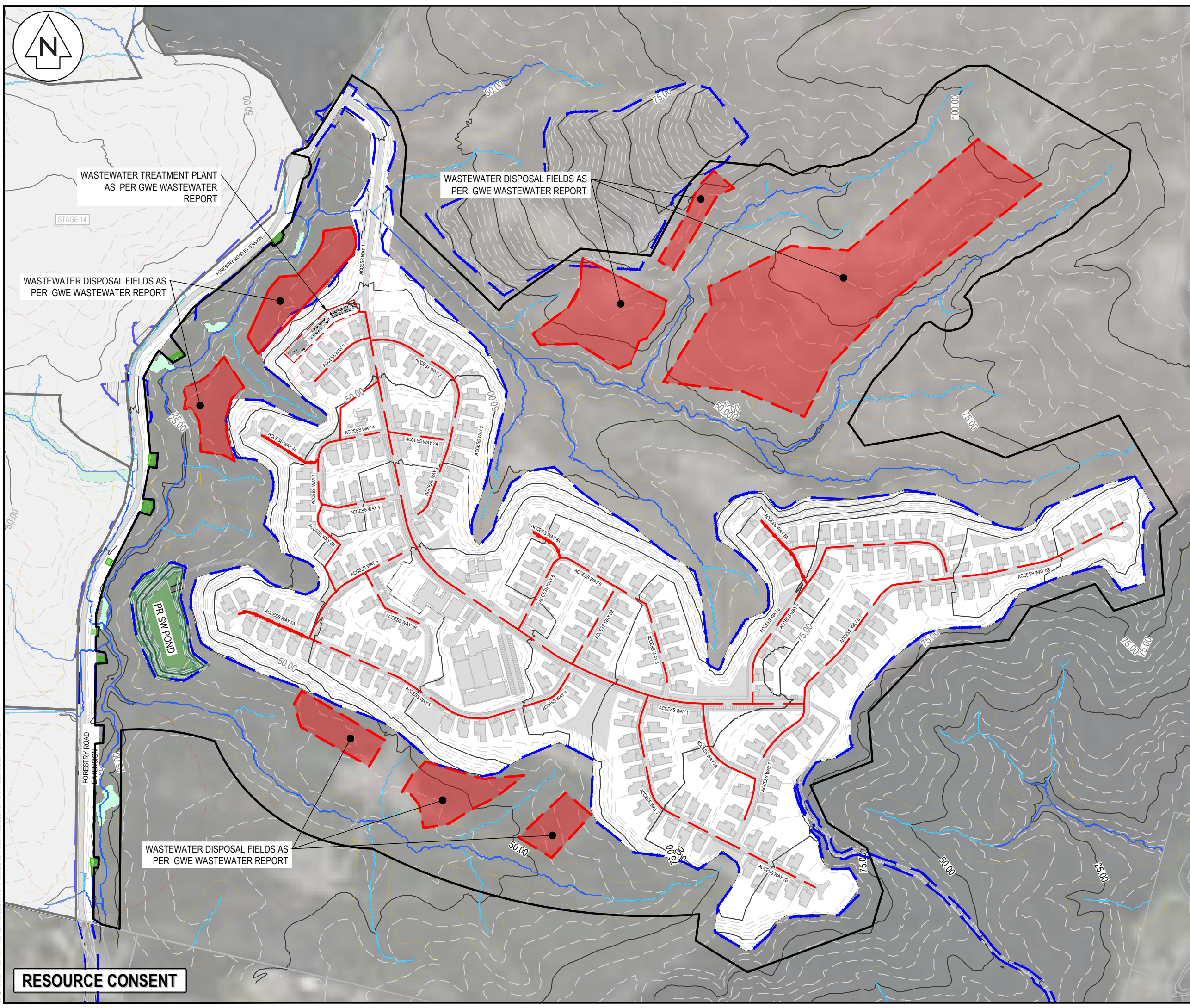
Rev	Description	By	Date
A	RESOURCE CONSENT	AYC	03/2025
Survey	LiDAR		03/2022
Design	KH/AYC		03/2025
Drawn	KH/AYC		03/2025
Checked	RW		03/2025

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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WASTEWATER PLAN

Project no.	147016
Scale	1:4000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-0
Rev	A



RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\MVEN\PROJECTS\RD\RV - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C500 WASTEWATER.DWG



FORESTRY ROAD EXTENSION

WASTEWATER DISPOSAL FIELDS AS PER GWE WASTEWATER REPORT. REFER TO GWE REPORT AND PLAN FOR DETAILS

WASTEWATER TREATMENT PLANT AS PER GWE WASTEWATER REPORT

WASTEWATER DISPOSAL FIELDS AS PER GWE WASTEWATER REPORT. REFER TO GWE REPORT AND PLAN FOR DETAILS

PRIVATE WASTEWATER PUMP STATION

RESOURCE CONSENT

ACCESS WAY 1

WASTEWATER GRAVITY SYSTEM DISCHARGE POINT TO WASTEWATER TREATMENT PLANT

MH A-1

225mm uPVC SN16 @ 6.43%

TEE JUNCTION A-1

MH A-2

MH C-1

150mm uPVC SN16 @ 2.06%

MH C-2

ACCESS WAY 3

225mm uPVC SN16 @ 4.18%

MH B-1

ACCESS WAY 2

MH A-3

MH D-1

50.00

225mm uPVC SN16 @ 5.56%

MH C-3

ACCESS WAY 4

MH D-3-1

63mm OD RISING MAIN

ACCESS WAY 4A

MH D-3-2

MH D-2

MH D-3

DISCHARGE MANHOLE FOR WASTEWATER RISING MAIN

ACCESS WAY 2A

MH A-4

MH C-4

ACCESS WAY 2

225mm uPVC SN16 @ 4.92%

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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).
 3. 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.
 4. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 5. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS, ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 6. ALL MANHOLES ARE TO BE 1050mmØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 7. ALL LINES ARE TO BE MIN. 150mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 8. ALL LOT CONNECTION TO BE MIN. 100mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 9. 150mmØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100mmØ ON A 150mmØ LUNDEN JUNCTION AND BLANK CAP.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

LEGEND

	EX BDY
	PR BDY
	EX WASTEWATER
	PR WASTEWATER
	EX/PR WWMH
	PR WW LOT CON
	PR DISPOSAL FIELD
	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	KH/AYC		03/2025
Drawn	KH/AYC		03/2025
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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WASTEWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-1
Rev	A

DATE: 4/2025 FILE PATH: F:\M\PROJECTS\RD\147016-RV-C500 WASTEWATER.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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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 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY (Solid black line)
 - PR BDY (Dashed black line)
 - EX WASTEWATER (Red dashed line)
 - PR WASTEWATER (Red solid line)
 - EX/PR WMMH (Circle with center dot)
 - PR WW LOT CON (Red arrow)
 - PR DISPOSAL FIELD (Red shaded area)
 - RIPARIAN YARD 20m SETBACK (Yellow dashed line)
 - WETLAND AREA 100m SETBACK (Red dashed line)
 - WETLAND AREA 10m SETBACK (Green dashed line)
 - EX STREAMS (Blue dashed line)

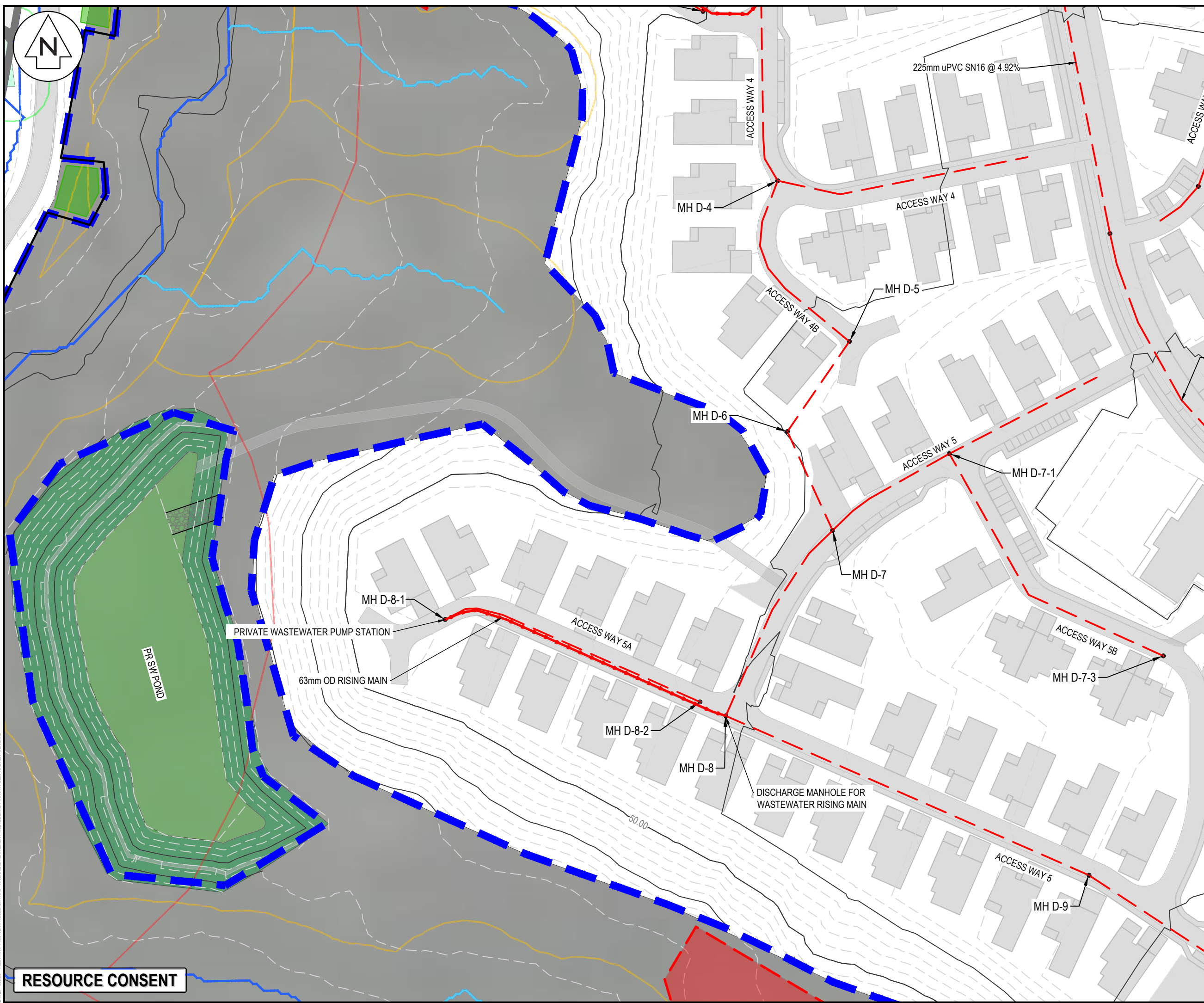
A	RESOURCE CONSENT	AYC	03/2025
Rev	Description	By	Date
Survey	LIDAR		03/2022
Design	KH/AYC		03/2025
Drawn	KH/AYC		03/2025
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Project
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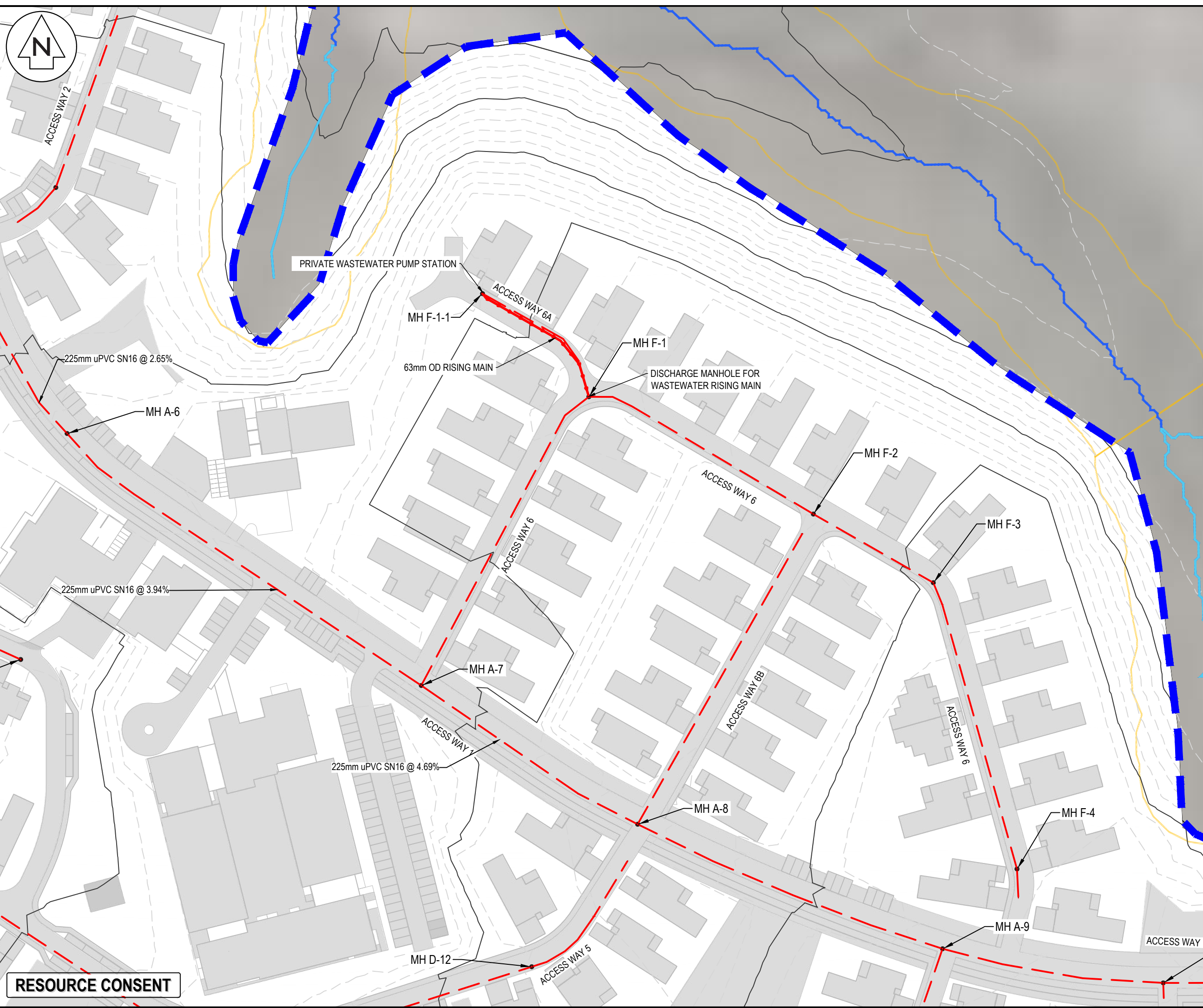
Title
RETIREMENT VILLAGE PROPOSED WASTEWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-2
Rev	A



DATE: 4/2025 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C500 WASTEWATER.DWG

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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).
 3. EACH CONNECTION SHALL BE MARKED BY A 50mmx50mm TREATED PINE STAKE EXTENDING 600mm ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER 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.
 4. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 5. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS, ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 6. ALL MANHOLES ARE TO BE 1050mmØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 7. ALL LINES ARE TO BE MIN. 150mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 8. ALL LOT CONNECTION TO BE MIN. 100mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 9. 150mmØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100mmØ ON A 150mmØ LUNDEN JUNCTION AND BLANK CAP.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

LEGEND

	EX BDY
	PR BDY
	EX WASTEWATER
	PR WASTEWATER
	EX/PR WWMH
	PR WW LOT CON
	PR DISPOSAL FIELD
	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	KH/AYC		03/2025
Drawn	KH/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 WASTEWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-3
Rev	A

RESOURCE CONSENT

DATE: 03/2025 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C500 WASTEWATER.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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).
 3. 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.
 4. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 5. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS, ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 6. ALL MANHOLES ARE TO BE 1050mmØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 7. ALL LINES ARE TO BE MIN. 150mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 8. ALL LOT CONNECTION TO BE MIN. 100mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 9. 150mmØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100mmØ ON A 150mmØ LUNDEN JUNCTION AND BLANK CAP.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

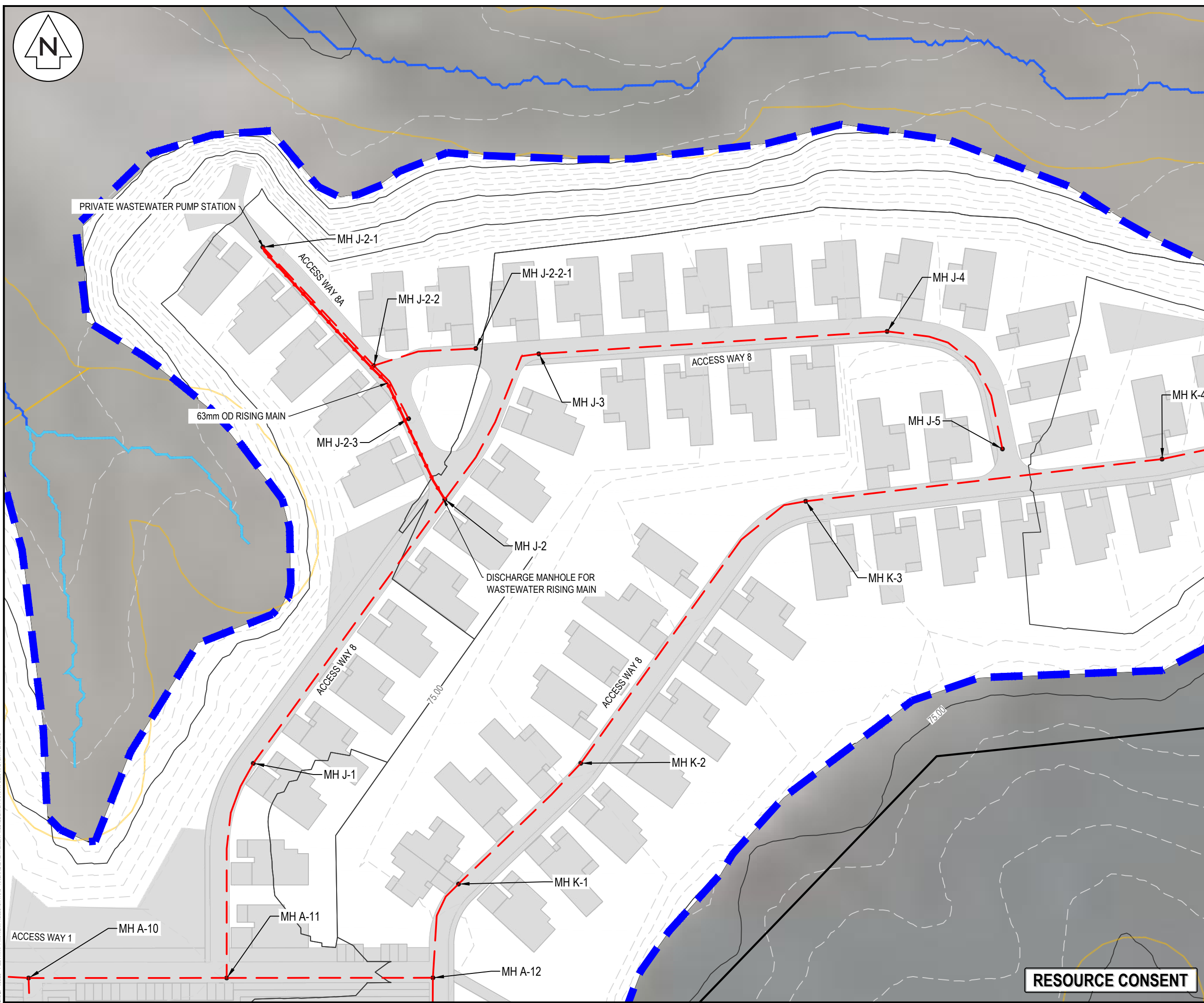
- LEGEND
- EX BDY (dashed line)
 - PR BDY (solid line)
 - EX WASTEWATER (red dashed line)
 - PR WASTEWATER (red solid line)
 - EX/PR WWMH (circle with dot)
 - PR WW LOT CON (arrow)
 - PR DISPOSAL FIELD (red shaded area)
 - RIPARIAN YARD 20m SETBACK (yellow dashed line)
 - WETLAND AREA 100m SETBACK (orange dashed line)
 - WETLAND AREA 10m SETBACK (green dashed line)
 - EX STREAMS (blue line)

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

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

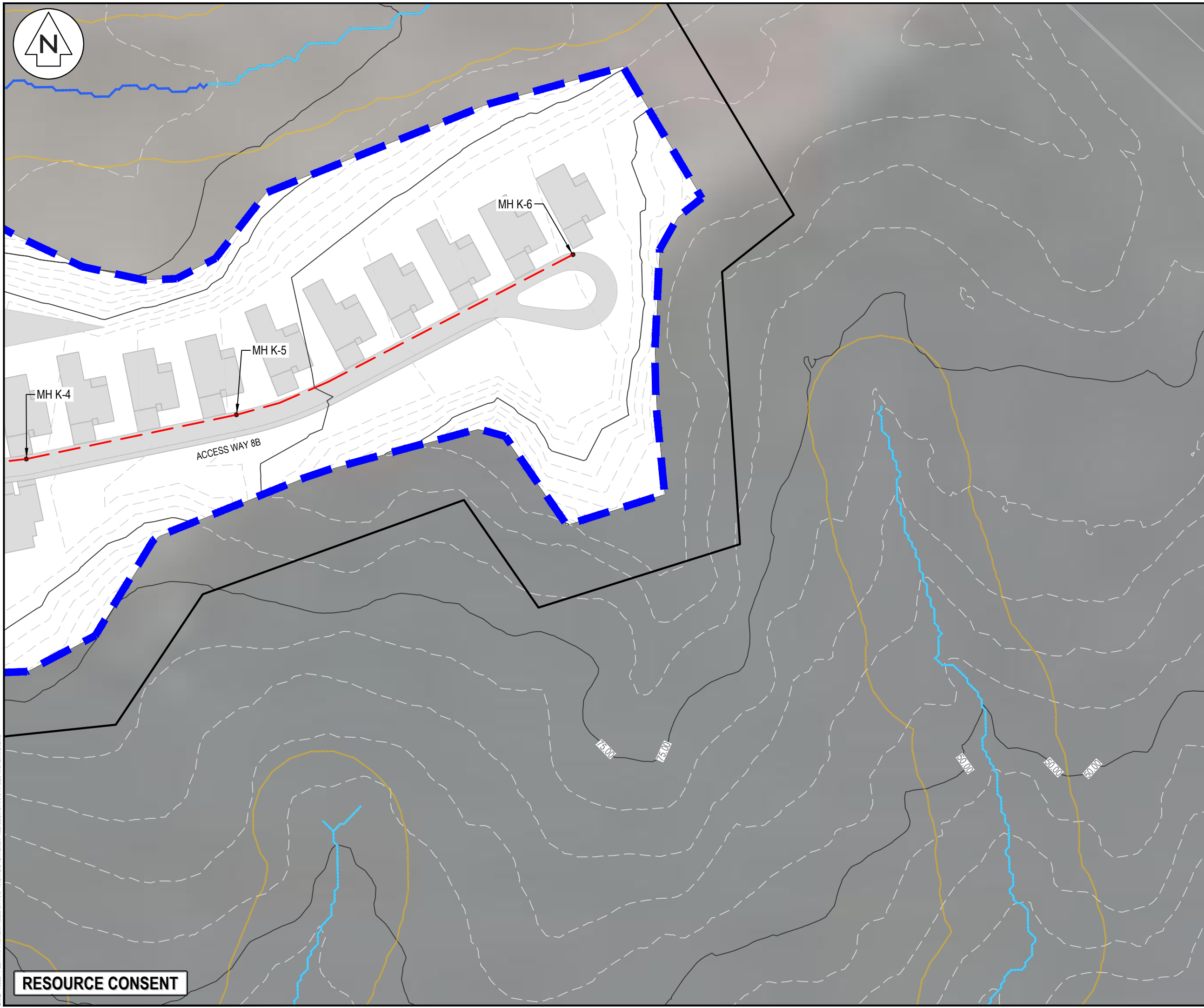
Title
RETIREMENT VILLAGE PROPOSED WASTEWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-4
Rev	A



RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\MVEN\PROJECTS\RD16 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C500 WASTEWATER.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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).
 3. 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.
 4. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 5. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS, ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 6. ALL MANHOLES ARE TO BE 1050mmØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 7. ALL LINES ARE TO BE MIN. 150mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 8. ALL LOT CONNECTION TO BE MIN. 100mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 9. 150mmØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100mmØ ON A 150mmØ LUNDEN JUNCTION AND BLANK CAP.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

LEGEND

	EX BDY
	PR BDY
	EX WASTEWATER
	PR WASTEWATER
	EX/PR WWMH
	PR WW LOT CON
	PR DISPOSAL FIELD
	RIPARIAN YARD 20m SETBACK
	WETLAND AREA 100m SETBACK
	WETLAND AREA 10m SETBACK
	EX STREAMS

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

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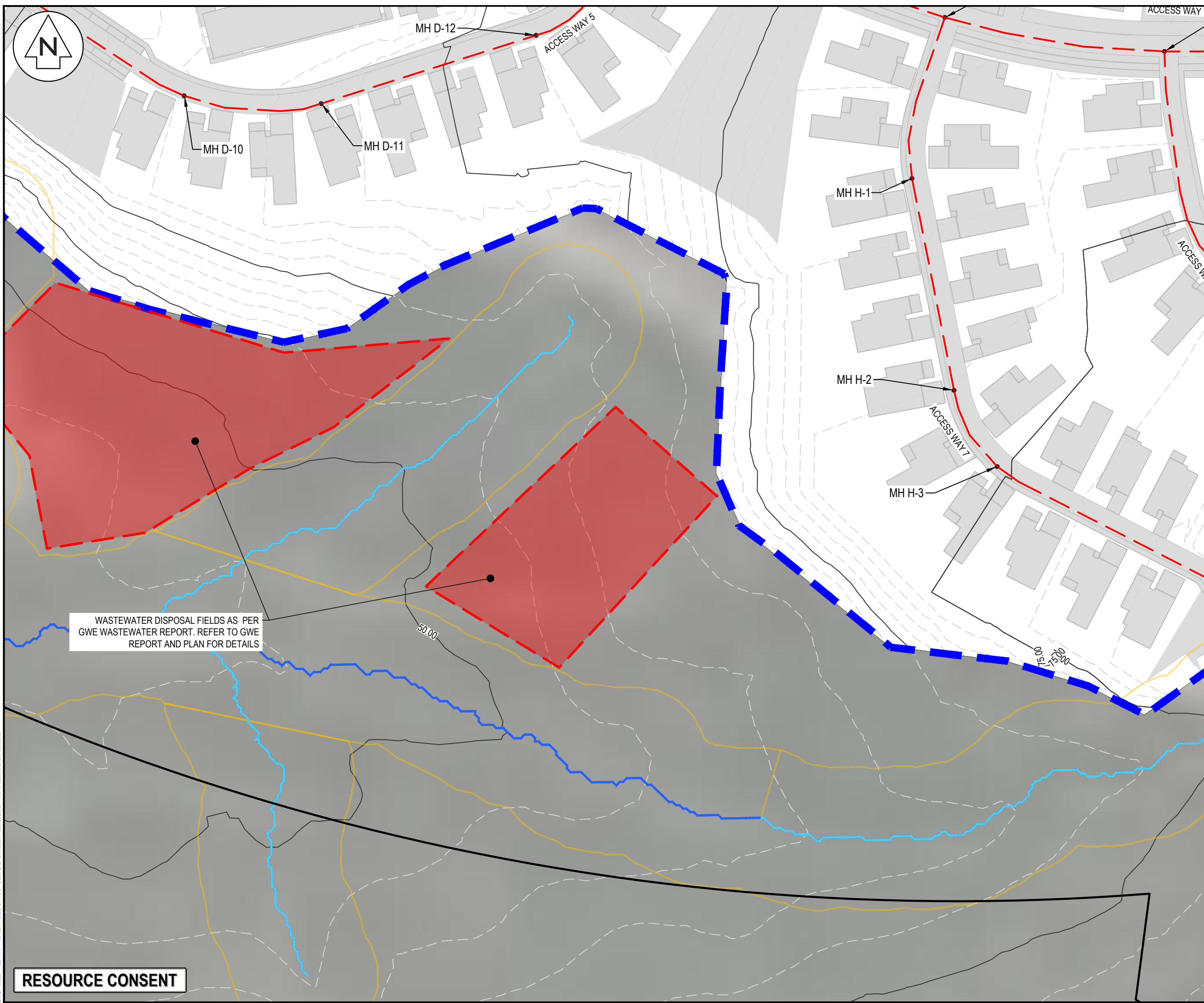
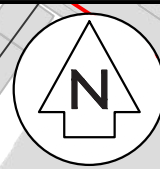
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WASTEWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-5
Rev	A

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 40716-RV-C500 WASTEWATER.DWG

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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).
 3. 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.
 4. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 5. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS, ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 6. ALL MANHOLES ARE TO BE 1050mmØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 7. ALL LINES ARE TO BE MIN. 150mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 8. ALL LOT CONNECTION TO BE MIN. 100mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 9. 150mmØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100mmØ ON A 150mmØ LUNDEN JUNCTION AND BLANK CAP.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY
 - PR BDY
 - EX WASTEWATER
 - PR WASTEWATER
 - EX/PR WWMH
 - PR WW LOT CON
 - PR DISPOSAL FIELD
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - WETLAND AREA 10m SETBACK
 - EX STREAMS

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

WASTEWATER DISPOSAL FIELDS AS PER GWE WASTEWATER REPORT. REFER TO GWE REPORT AND PLAN FOR DETAILS

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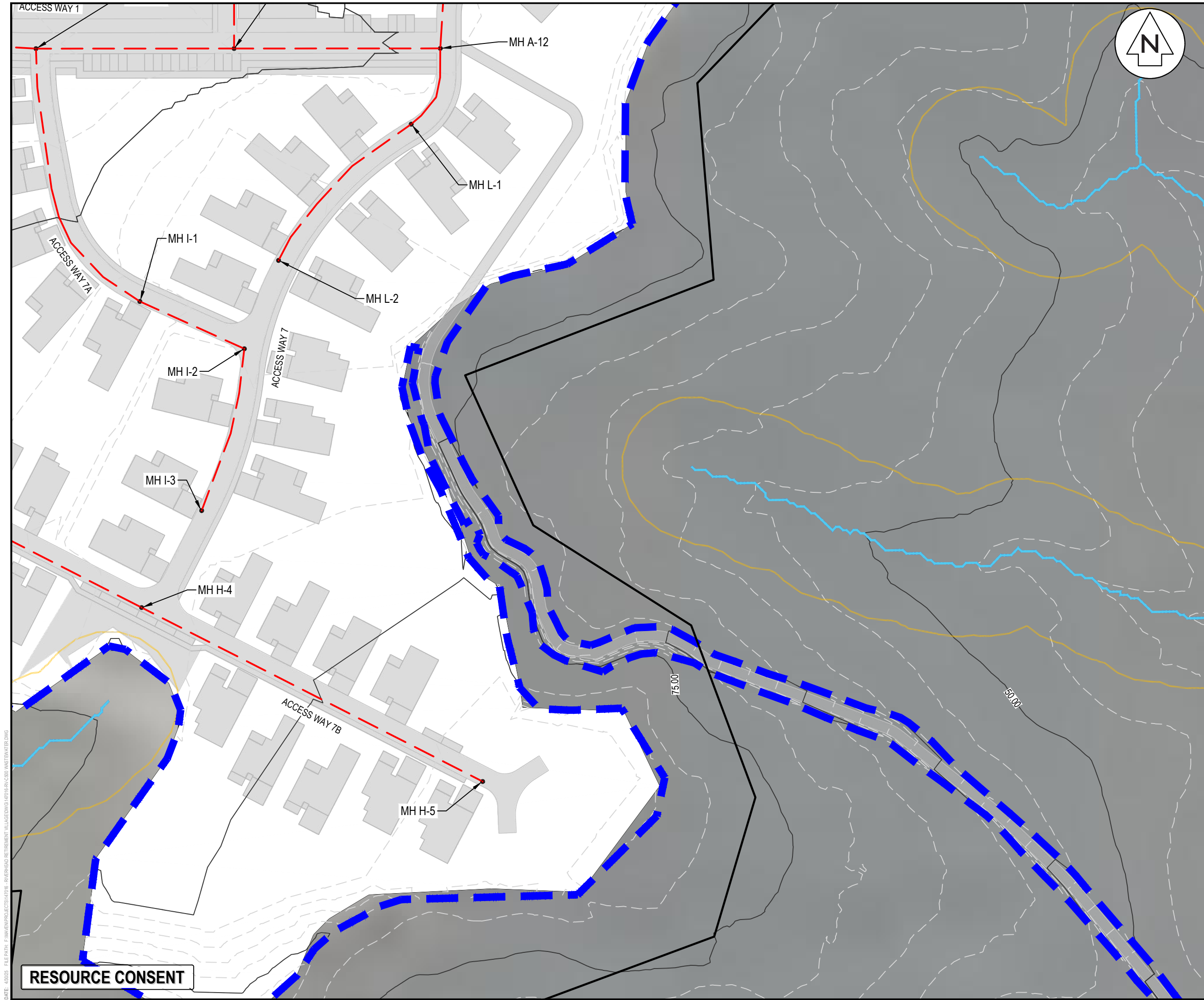
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WASTEWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-6
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C500 WASTEWATER.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. 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).
 3. 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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 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. WW PIPE DIAMETER IS 150mm UNLESS SHOWN OTHERWISE.

LEGEND

	EX BDY
	PR BDY
	EX WASTEWATER
	PR WASTEWATER
	EX/PR WWMH
	PR WW LOT CON
	PR DISPOSAL FIELD
	RIPARIAN YARD 20m SETBACK
	WETLAND AREA 100m SETBACK
	WETLAND AREA 10m SETBACK
	EX STREAMS

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

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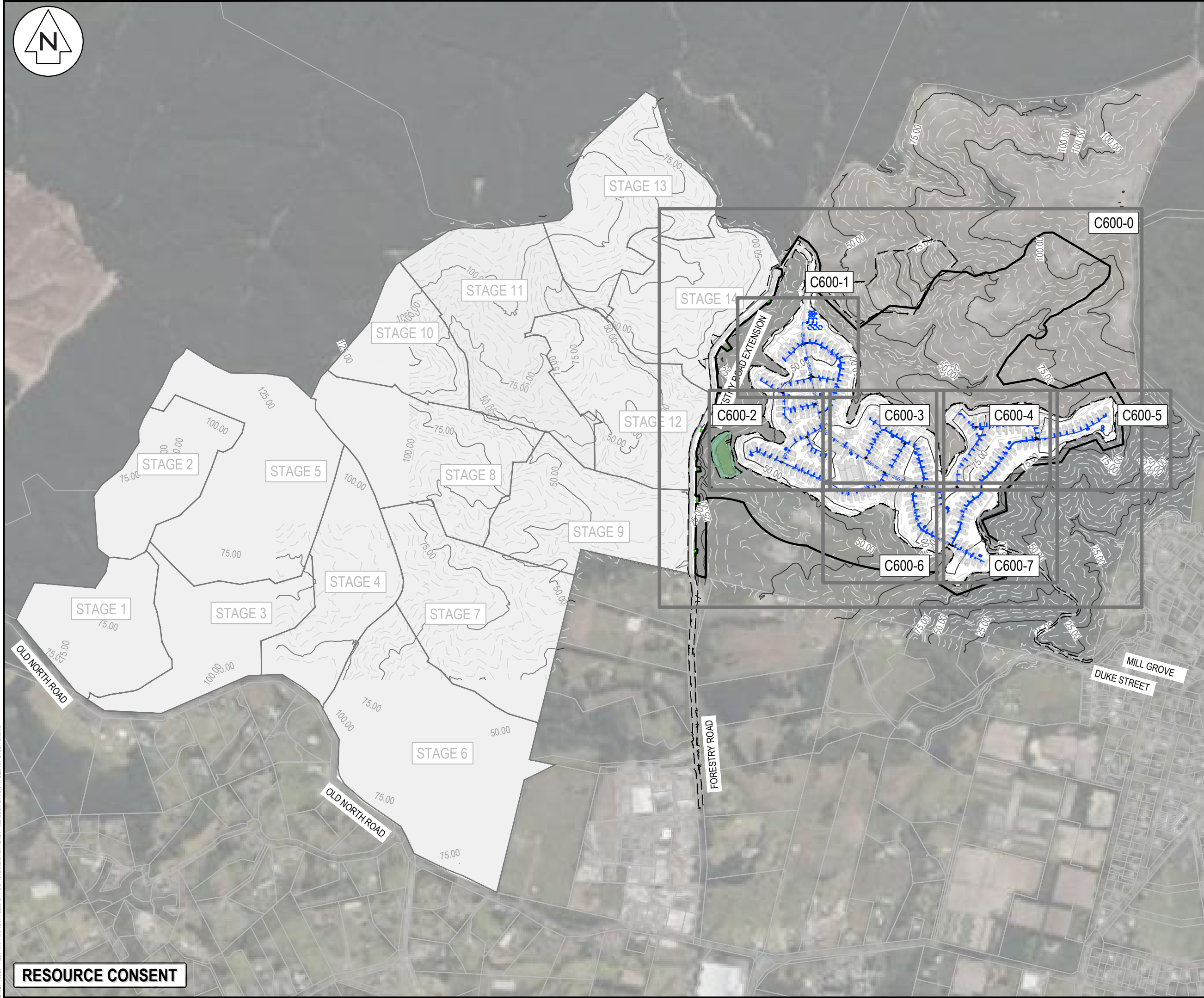
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WASTEWATER PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C500 WASTEWATER.DWG
Drawing no.	C500-7
Rev	A

DATE: 4/2025 FILE PATH: F:\MAVEN\PROJECTS\40718 - RIVERHEAD RETIREMENT VILLAGE\DWG\40718-RV-C500 WASTEWATER.DWG

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000
 3. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946.
 4. ORIGIN OF LEVELS = SM XXXX SO XXXX(XXXX) PUBLISHED RL=XX.XX. SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.
 5. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 6. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
 7. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
 8. SEDIMENT CONTROL SHALL BE INSTALLED AND OPERATIONAL BEFORE EARTHWORKS START ONSITE IN ACCORDANCE WITH COUNCIL STANDARDS.
 9. CONTRACTOR SHALL PROVIDE AS-BUILT OF WORKING SEDIMENT CONTROL DEVICES AND CONFIRMATION OF POND/DECENT VOLUMES TO ENGINEER.
 10. SEDIMENT CONTROL TO COMPLY WITH GD05 STANDARDS.

LEGEND

	EX BDY
	PR BDY
	EXTENT OF WORK BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	PR TANK FIREFIGHTING
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

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 WATER SUPPLY OVERVIEW PLAN

Project no.	147016
Scale	1:10,000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\Maven\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 40716-RV-C600 WATER SUPPLY.DWG



STAGE 14

WATER SUPPLY TREATMENT PLANT AND STORAGE TANK LOCATION. TO BE SERVICED BY SEALED ROOF WATER COLLECTION SYSTEM. REFER TO GWE REPORT/DRAWING FOR DETAILS.

INDICATIVE BURIED FIREFIGHTING TANKS. 2 x 22.500L.

CONTINGENCY / ADDITIONAL TREATED WATER STORAGE LOCATION TBC BY GWE IN DETAILED DESIGN

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
 - ROADS AND FRONT 1M OF BERM: 900mm
 - BERMS 600mm
 - SERVICE CONNECTIONS: 450mm
 4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGOT AND SOCKET RUBBER RING JOINTS.
 6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 8. PIPES SHALL BE BEDDED AND SURROUNDED TO 150mm ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
 9. METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150mm ABOVE ALL WATERMAINS.
 10. A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
 11. ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
 12. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

	EX BDY
	PR BDY
	EXTENT OF WORK BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	PR TANK FIREFIGHTING
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date

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Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WATER SUPPLY PLAN

Project no.	147016
Scale	1:4000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600-0
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C600 WATER SUPPLY.DWG



FORESTRY ROAD EXTENSION

INDICATIVE BORE LOCATION

WATER SUPPLY TREATMENT PLANT AND STORAGE TANK LOCATION. TO BE SERVICED BY SEALED ROOF WATER COLLECTION SYSTEM. REFER TO GWE REPORT/DRAWING FOR DETAILS.

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 - MINIMUM COVER SHALL BE:
 - ROADS AND FRONT 1M OF BERM: 900mm
 - BERMS: 600mm
 - SERVICE CONNECTIONS: 450mm
 - WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
 - ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
 - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 - PIPES SHALL BE BEDDED AND SURROUNDED TO 150mm ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
 - METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150mm ABOVE ALL WATERMAINS.
 - A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
 - ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
 - ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

	EX BDY
	PR BDY
	EXTENT OF WORK BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	PR TANK FIREFIGHTING
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

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

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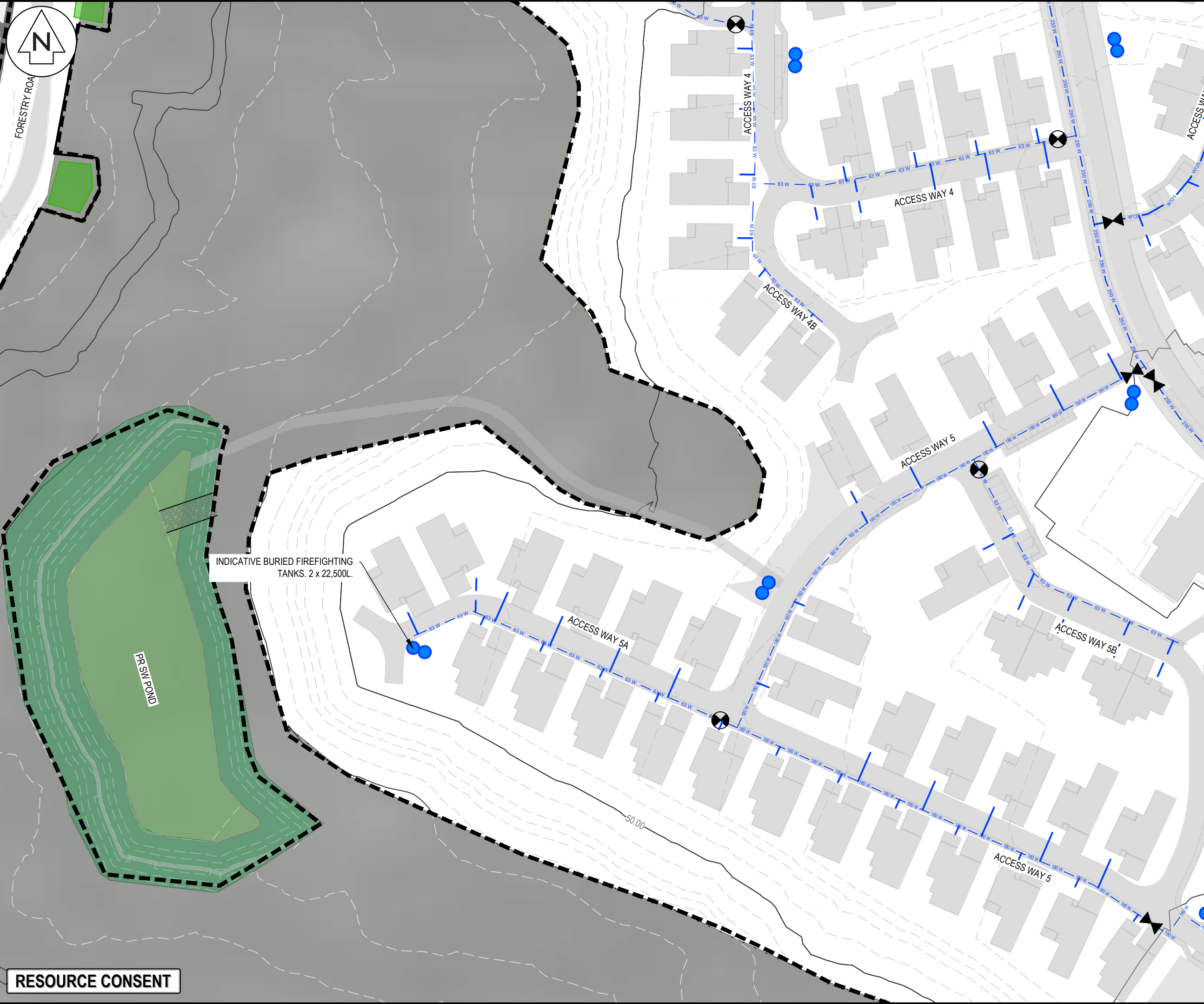
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WATER SUPPLY PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600-1
Rev	A

RESOURCE CONSENT

DATE: 4/03/25 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C600 WATER SUPPLY.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
 - ROADS AND FRONT 1M OF BERM: 900mm
 - BERMS 600mm
 - SERVICE CONNECTIONS: 450mm
 4. WATERMANS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
 6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 8. PIPES SHALL BE BEDDED AND SURROUNDED TO 150mm ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
 9. METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150mm ABOVE ALL WATERMANS.
 10. A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
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LEGEND

	EX BDY
	PR BDY
	EXTENT OF WORK BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	PR TANK FIREFIGHTING
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

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

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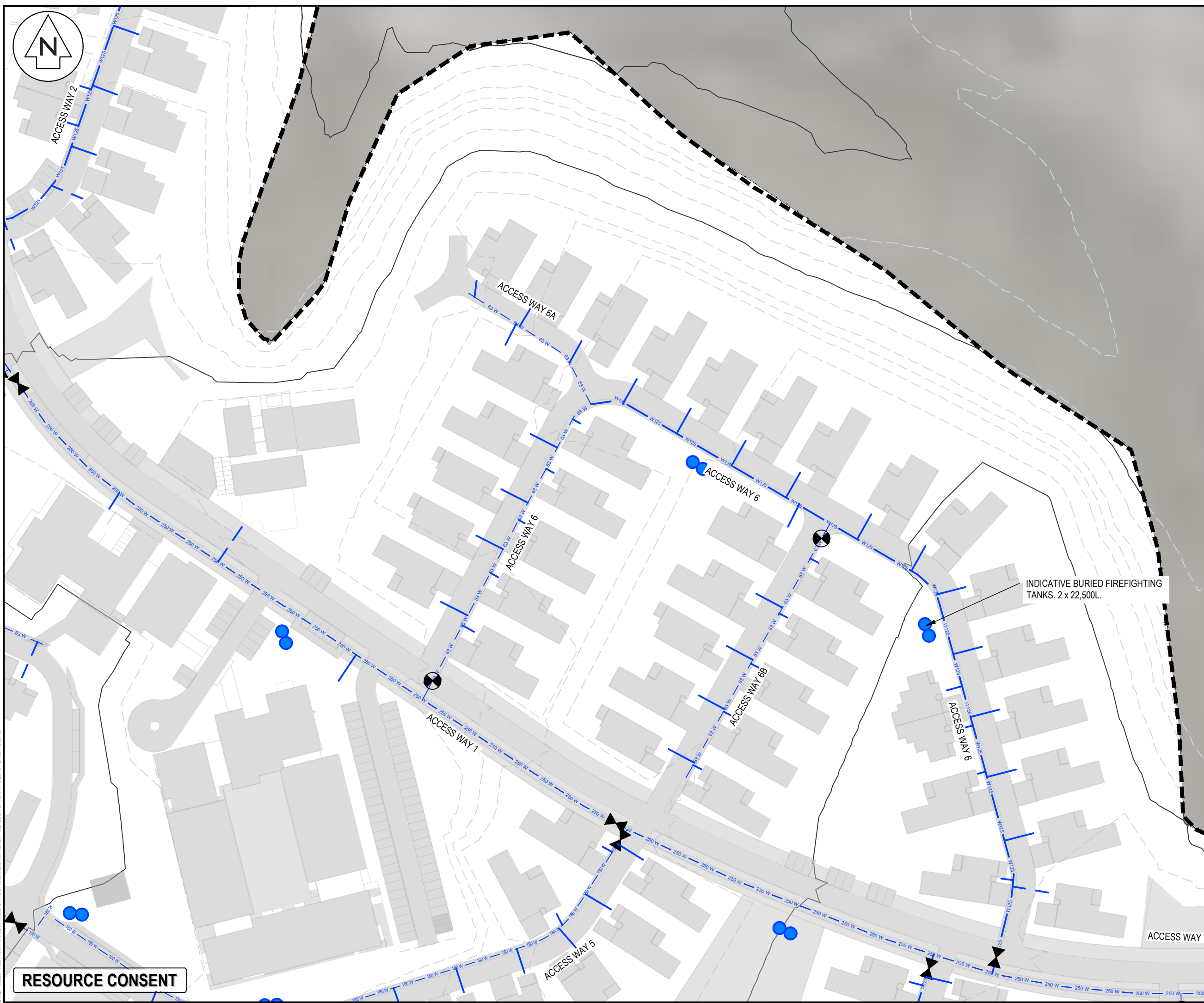
Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE PROPOSED WATER SUPPLY PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600-2
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\MVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C600 WATER SUPPLY.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
ROADS AND FRONT 1M OF BERM: 900mm
BERMS 600mm
SERVICE CONNECTIONS: 450mm
 4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
 6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
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A	RESOURCE CONSENT	SP	03/2025
Rev	Description	By	Date
	Survey	LIDAR	03/2022
	Design	HN	03/2025
	Drawn	SP	03/2025
	Checked	RW	03/2025

INDICATIVE BURIED FIREFIGHTING TANKS. 2 x 22,500L.

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Title
RETIREMENT VILLAGE PROPOSED WATER SUPPLY PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600-3
Rev	A

RESOURCE CONSENT

DATE: 03/2025 FILE PATH: F:\MVEN\PROJECTS\RD147016 - RIVERHEAD RETIREMENT VILLAGE\DWG 147016-RV-C600 WATER SUPPLY.DWG



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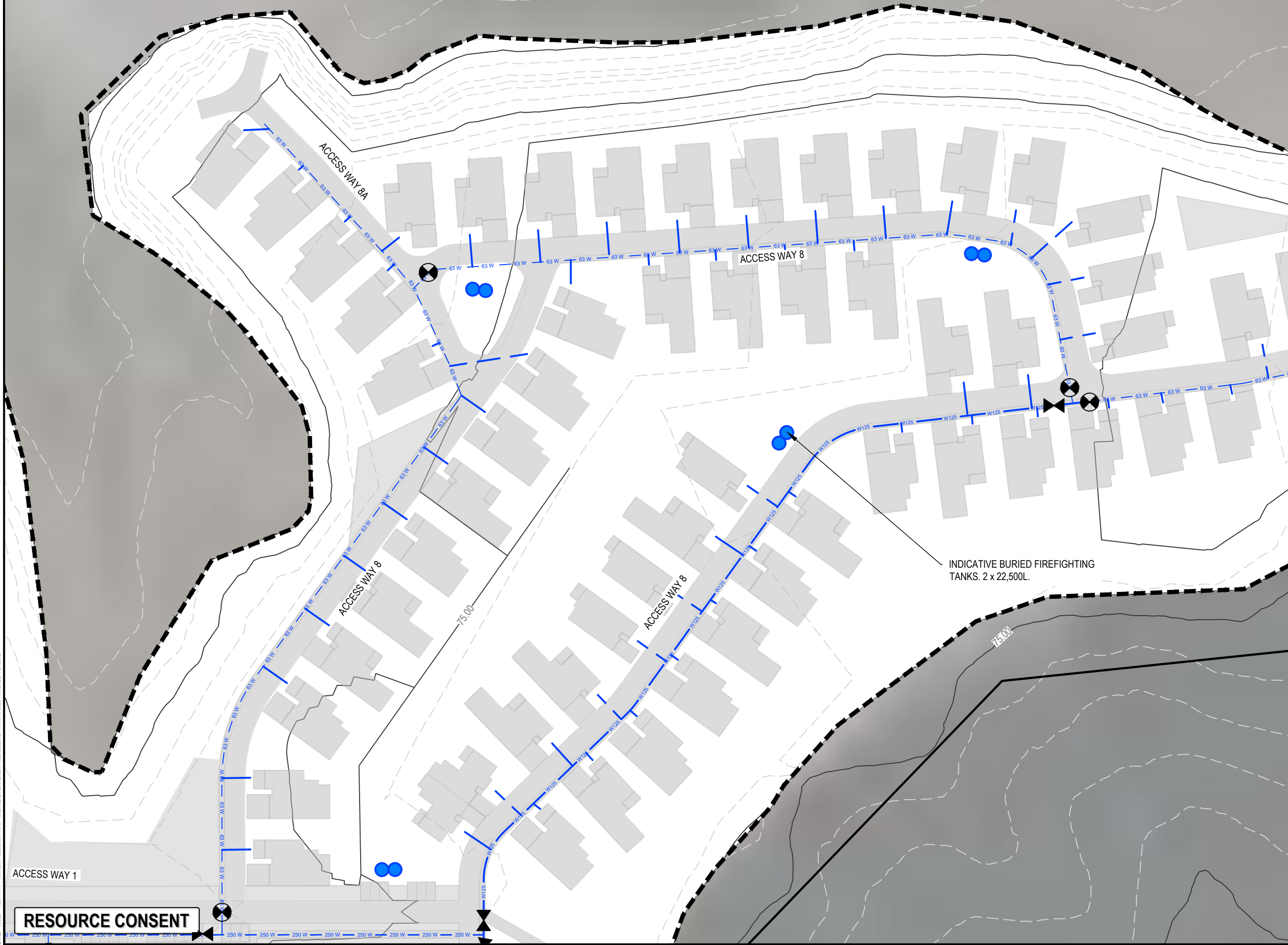
A	RESOURCE CONSENT	SP	03/2025
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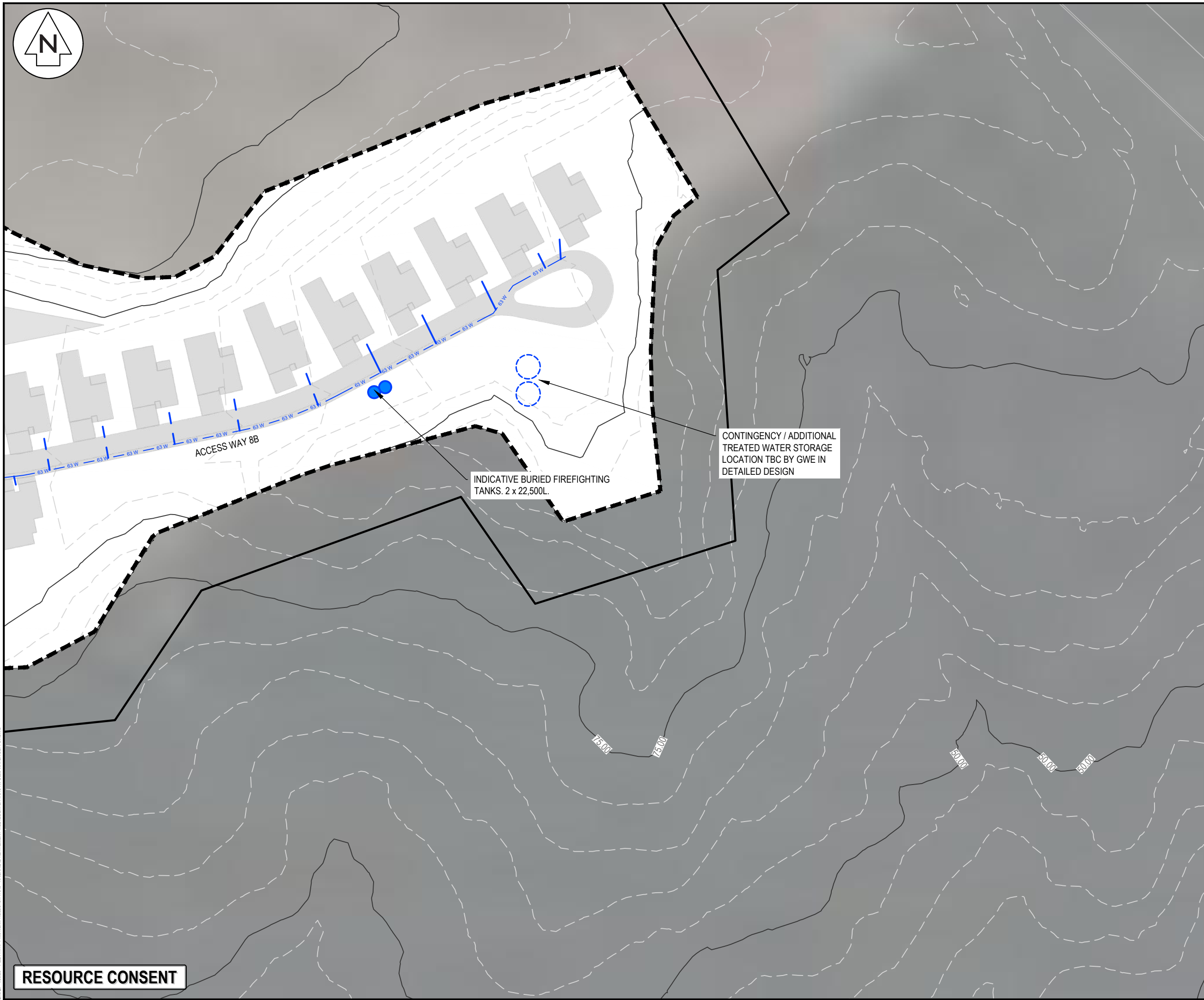
Title
RETIREMENT VILLAGE PROPOSED WATER SUPPLY PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600-4
Rev	A



RESOURCE CONSENT

DATE: 4/03/25 FILE PATH: F:\Maven\Projects\RD147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\40716-RV-C600 WATER SUPPLY.DWG



INDICATIVE BURIED FIREFIGHTING TANKS. 2 x 22,500L.

CONTINGENCY / ADDITIONAL TREATED WATER STORAGE LOCATION TBC BY GWE IN DETAILED DESIGN

- NOTES
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Rev	Description	By	Date
A	RESOURCE CONSENT	SP	03/2025
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Title
RETIREMENT VILLAGE PROPOSED WATER SUPPLY PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600-5
Rev	A

RESOURCE CONSENT

DATE: 4/2025 FILE PATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C600 WATER SUPPLY.DWG



ACCESS WAY 1

ACCESS WAY 5

ACCESS WAY 7

INDICATIVE BURIED FIREFIGHTING TANKS. 2 x 22,500L.

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Title
RETIREMENT VILLAGE PROPOSED WATER SUPPLY PLAN

Project no.	147016
Scale	1:1000 @ A3
Cad file	147016-RV-C600 WATER SUPPLY.DWG
Drawing no.	C600-6
Rev	A

RESOURCE CONSENT

DATE: 4/03/25 FILE PATH: F:\MAVEN\PROJECTS\147016 - RIVERHEAD RETIREMENT VILLAGE\DWG\147016-RV-C600 WATER SUPPLY.DWG