



1. REFER TO MAVEN FLOODING REPORT FOR HAZARD MAPPING DETAILS
2. 5% AEP POST-DEVELOPMENT 2.1 DEGREES (17.2%)
3. SITE POST-DEVELOPMENTS AND OUTSIDE SITE MPD

- 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 (DIPA PLUS ANTI SCOUR BLOCKS AT 6m CRS)
  3. EACH CONNECTION SHALL BE MARKED BY A 50mm x 50mm 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 HANAPILL 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 TRAFFICED AREAS
  6. ALL MANHOLES ARE TO BE 1500mm PRECAST CONCRETE UNLESS SHOWN OTHERWISE
  7. ALL CATCHPIT LEADS ARE 25mm DIAMETER AND SHALL HAVE MIN COVER 1.0m
  8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TANKING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF
  9. ALL LOT CONNECTION TO BE MIN 100mm UPVC S116 UNLESS SHOWN OTHERWISE
  10. ALL ROOF WATER RUNOFF PIPE TO BE 150 UPVC S116 UNLESS SHOWN OTHERWISE

- LEGEND
- EX BOY
  - PR BOY
  - 25 STORMWATER
  - PR STORMWATER ROAD
  - PR 100-YEAR FLOOD EXTENT

A SECTION 53		SP	10/2025
Ref	Revisions	By	Date
	By	Date	
Survey	LJDR	03/2024	
Design	KH	09/2025	
Drawn	SP	09/2025	
Checked	RW	10/2025	



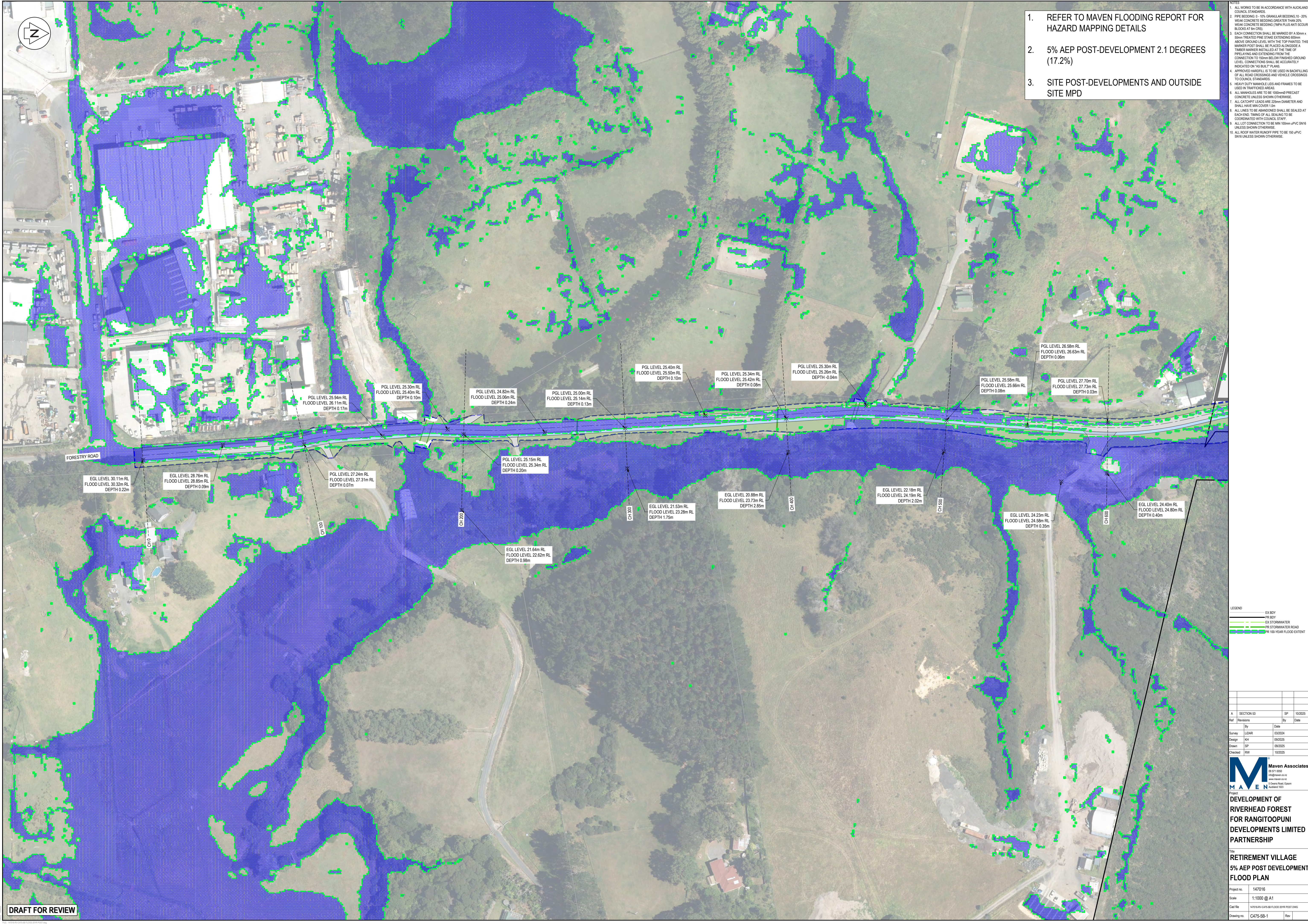
Project  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title  
**RETIREMENT VILLAGE 5% AEP POST DEVELOPMENT OVERVIEW PLAN**

Project no.	147016
Scale	1:5000 @ A1
Cad file	147016-RV-CAT5-48-FLOOD-2018-POST.DWG
Drawing no.	C475-SB-0
Rev	

DRAFT FOR REVIEW





- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
  - PIPE BEDDING - 0% TO 15% GRAUEN RIGIDITY AND 10-20% MEAN CONCRETE BEDDING GREATER THAN 20% MEAN BEDDING (NEMA PL-5) ANTI SPLIT BLOCKS AT 60 GRS).
  - EACH CONNECTION SHALL BE MADE BY A 50mm x 50mm STEEL COUPLER OR WELD ON THE TOP OF THE PIPE ABOVE GROUND LEVEL WITH THE TOP PAINTED. THE MARKER POST SHALL BE PLACED ALONGSIDE THE COUPLER AND INSTALLED AS PART OF THE PIPE LAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND SURFACE. ALL COUPLERS SHALL BE SECURELY INDICATED ON "AS BUILT" PLANS.
  - APPROVED HANDHOLE IS TO BE USED IN BACKFILLING FOR ALL MANHOLES AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
  - HEAVY DUTY MAN-HOLE LIDS AND FRAMES TO BE USED IN ALL AREAS.
  - ALL MANHOLES ARE TO BE 1050mm PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
  - ALL CAT-CATCHP LINES ARE 225mm DIAMETER AND SHALL BE COVERED BY A COVER 150mm DEEP.
  - ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END, TYPING OF SEAL SEEING TO BE IDENTICAL TO COUNCIL STAFF.
  - ALL LOT CONNECTION TO THE MM 100m PVC N°16 UNLESS SHOWN OTHERWISE.
  - ALL LOT CONNECTION TO THE MM 150 PVC N°16 UNLESS SHOWN OTHERWISE.

EGL LEVEL 30.11m RL  
FLOOD LEVEL 30.32m RL  
DEPTH 0.22m

EGL LEVEL 28.76m RL  
FLOOD LEVEL 28.85m RL  
DEPTH 0.09m

PGL LEVEL 27.24m RL  
FLOOD LEVEL 27.31m RL  
DEPTH 0.07m

PGL LEVEL 24.82m RL  
FLOOD LEVEL 25.06m RL  
DEPTH 0.24m

PGL LEVEL 25.00m RL  
FLOOD LEVEL 25.14m RL  
DEPTH 0.13m

PGL LEVEL 25.40m RL  
FLOOD LEVEL 25.50m RL  
DEPTH 0.10m

PGL LEVEL 25.34m RL  
FLOOD LEVEL 25.42m RL  
DEPTH 0.08m

PGL LEVEL 25.30m R  
FLOOD LEVEL 25.26m R  
DEPTH -0.04

PGL LEVEL 25.58m RL  
FLOOD LEVEL 25.66m RL  
DEPTH 0.08m

L LEVEL 26.58m RL  
OOD LEVEL 26.63m RL  
PTH 0.06m

PGL LEVEL 27.70m RL  
FLOOD LEVEL 27.73m RL  
DEPTH 0.03m

PGL LEVEL 25.15m RL  
FLOOD LEVEL 25.34m RL  
DEPTH 0.20m

EGL LEVEL 21.53m RL  
FLOOD LEVEL 23.28m RL

EGL LEVEL 20.88m RL  
FLOOD LEVEL 23.73m RL  
DEPTH 2.85m

EGL LEVEL 22.18m R  
FLOOD LEVEL 24.19m R  
DEPTH 2.02m

EGL LEVEL 24.23m RL  
FLOOD LEVEL 24.58m RL  
DEPTH 0.35

EGL LEVEL 24.40m RL  
FLOOD LEVEL 24.80m RL  
DEPTH 0.40m

EGL LEVEL 21.64m RL  
FLOOD LEVEL 22.62m RL  
DEPTH 0.98m

EGL LEVEL 22.18m R  
FLOOD LEVEL 24.19m R  
DEPTH 2.02m

EGL LEVEL 24.23m RL  
FLOOD LEVEL 24.58m RL  
DEPTH 0.35

EGL LEVEL 24.40m RL  
FLOOD LEVEL 24.80m RL  
DEPTH 0.40m

**DRAFT FOR REVIEW**

LEGEND

- EX BOY
- PR BOY
- EX STORMWATER
- PR STORMWATER ROAD
- PR 100-YEAR FLOOD EXTENT

A	SECTION 53	SP	10/2025
Ref	Revisions	By	Date
	By	Date	
Survey	LIDAR	03/2024	
Design	KH	09/2025	
Drawn	SP	09/2025	
Checked	RW	10/2025	

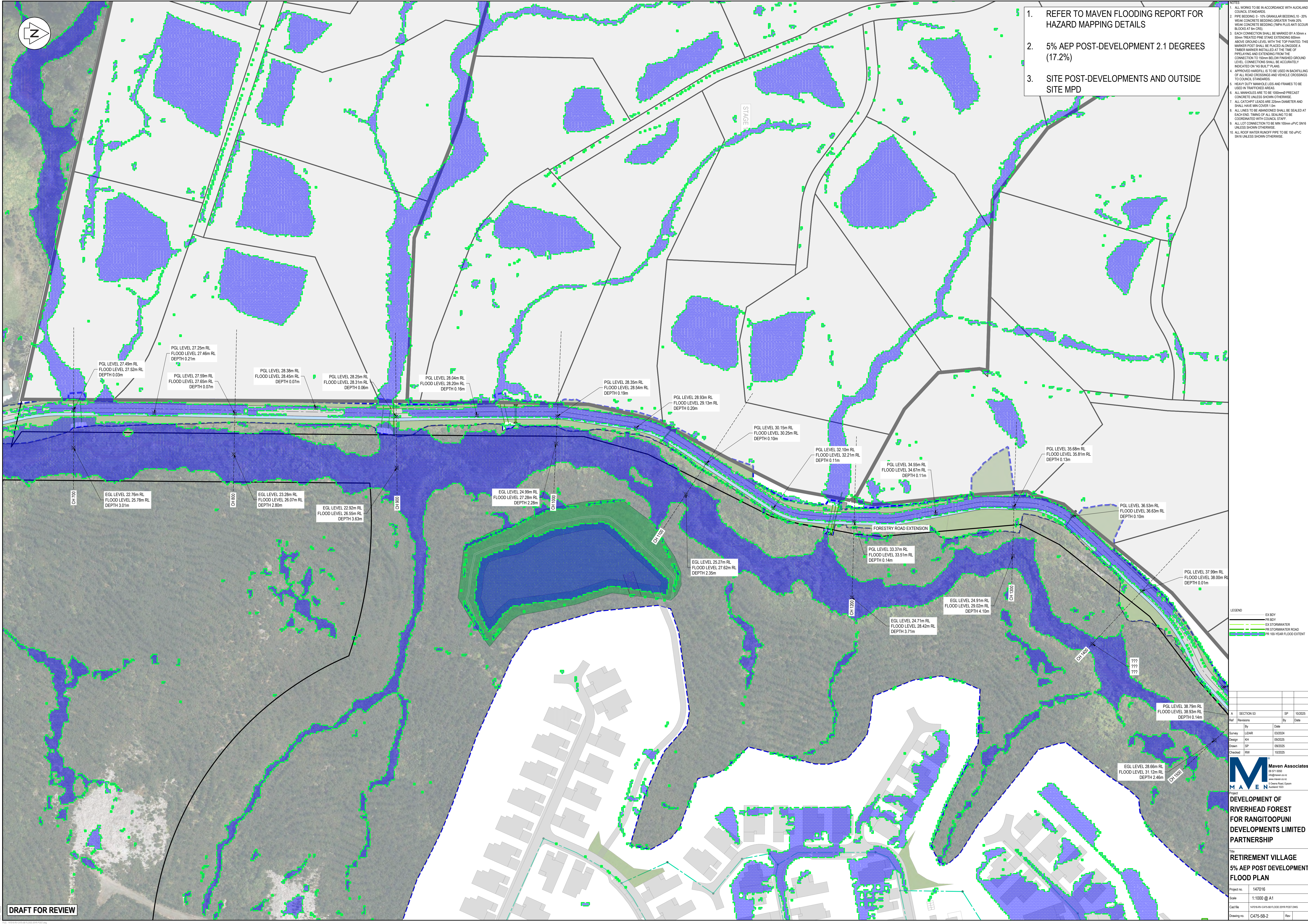


Project  
**DEVELOPMENT OF  
RIVERHEAD FOREST  
FOR RANGITOOPUNI  
DEVELOPMENTS LIMITED  
PARTNERSHIP**

Title  
**RETIREMENT VILLAGE**  
**5% AEP POST DEVELOPMENT**  
**FLOOD PLAN**

Project no.	147016		
Scale	1:1000 @ A1		
Cad file	147016-RV-C475-5B FLOOD 201R POST.DWG		
Drawing no.	C475-5B-1	Rev	





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3. SITE POST-DEVELOPMENTS AND OUTSIDE SITE MPD

- 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 (DIPA PLUS ANTI SCOUR BLOCKS AT 6m CRS)
  3. EACH CONNECTION SHALL BE MARKED BY A 50mm x 50mm 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 PIPE LAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
  4. APPROVED HANFILL 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 TRAFFICED AREAS
  6. ALL MANHOLES ARE TO BE 1500mm PRECAST CONCRETE UNLESS SHOWN OTHERWISE
  7. ALL CATCHPIT LEADS ARE 25mm DIAMETER AND SHALL HAVE MIN COVER 1.0m
  8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END, TAPPING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
  9. ALL LOT CONNECTION TO BE MIN 100mm uPVC SNI6 UNLESS SHOWN OTHERWISE
  10. ALL ROOF WATER RUNOFF PIPE TO BE 150 uPVC SNI6 UNLESS SHOWN OTHERWISE

- LEGEND
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  - PR BOY
  - EX STORMWATER
  - PR STORMWATER ROAD
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Ref	Revisions	By	Date
A	SECTION 53	SP	10/2025

Survey	LUDAR	Date	03/2024
Design	KH	Date	09/2025
Drawn	SP	Date	09/2025
Checked	RW	Date	10/2025

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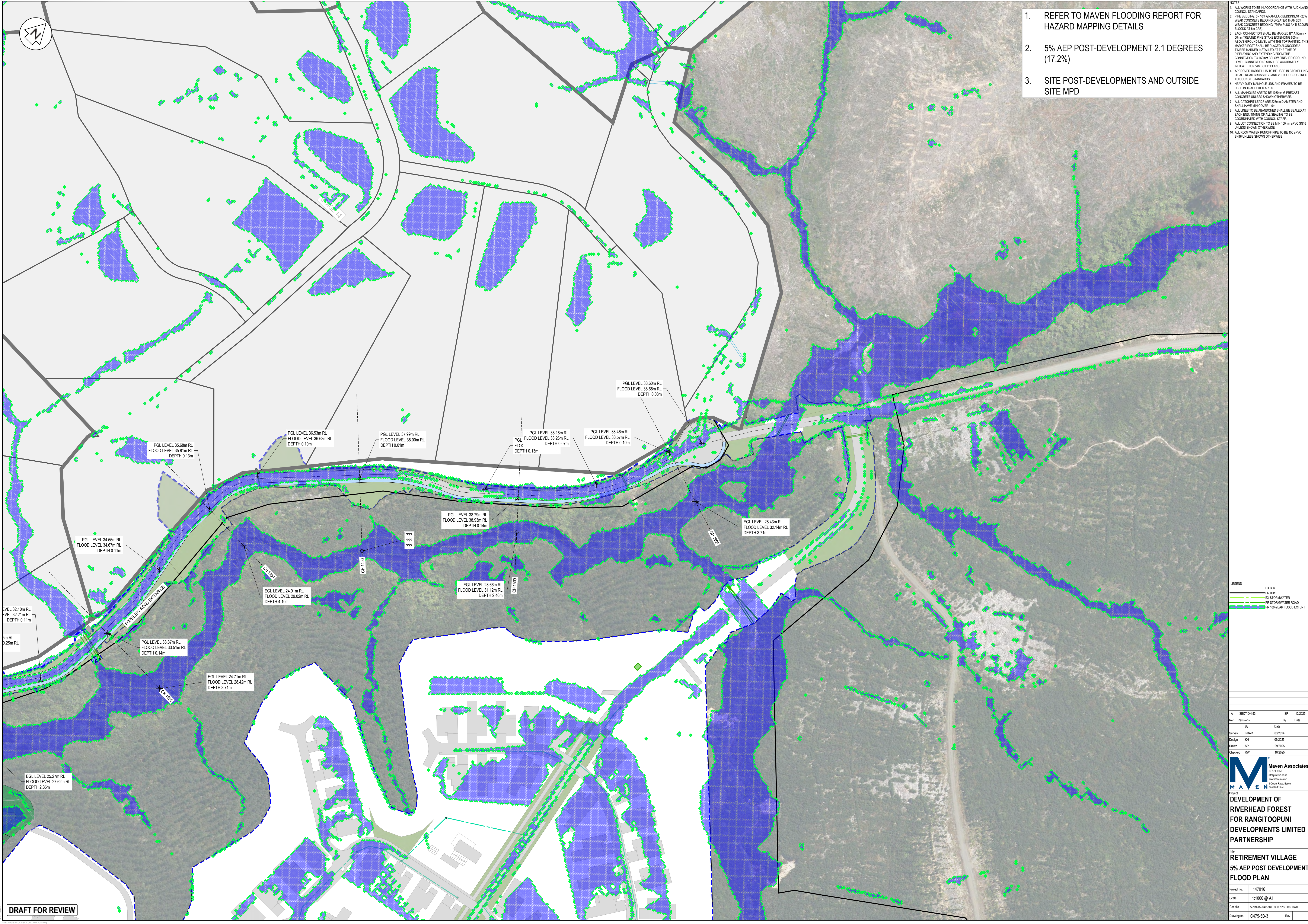
Project  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title  
**RETIREMENT VILLAGE 5% AEP POST DEVELOPMENT FLOOD PLAN**

Project no. 147016  
Scale 1:1000 @ A1  
Cadd file 147016-REV-CADD-148-FLOOD-2016-POST.DWG  
Drawing no. C475-SB-2 Rev

DRAFT FOR REVIEW





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  3. EACH CONNECTION SHALL BE MARKED BY A 50mm x 50mm 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 HAWK RILL TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS
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  9. ALL LOT CONNECTION TO BE MIN 100mm UPVC S16 UNLESS SHOWN OTHERWISE
  10. ALL ROOF WATER RUNOFF PIPE TO BE 150 UPVC S16 UNLESS SHOWN OTHERWISE

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A		SECTION 53	SP	10/2025
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Project:  
**DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP**

Title:  
**RETIREMENT VILLAGE 5% AEP POST DEVELOPMENT FLOOD PLAN**

Project no.: 147016  
Scale: 1:1000 @ A1  
Cad file: 147016-RV-CAT5-48-FLOOD-2018-POST.DWG  
Drawing no.: CAT5-SB-3 Rev

DRAFT FOR REVIEW