



1. REFER TO MAVEN FLOODING REPORT FOR HAZARD MAPPING DETAILS
2. 2% AEP PRE-DEVELOPMENT WITHOUT CLIMATE CHANGE
3. SITE PRE-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 HANDBILL 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 225mm DIAMETER AND SHALL HAVE MIN COVER 1.0m
 8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 9. ALL LOT CONNECTION TO BE MIN 100mm uPVC S/N16 UNLESS SHOWN OTHERWISE
 10. ALL ROOF WATER RUNOFF PIPE TO BE 150 uPVC S/N16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BOY
 - PR BOY
 - EX STORMWATER
 - PR STORMWATER ROAD
 - EX 50-YEAR FLOOD EXTENT

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

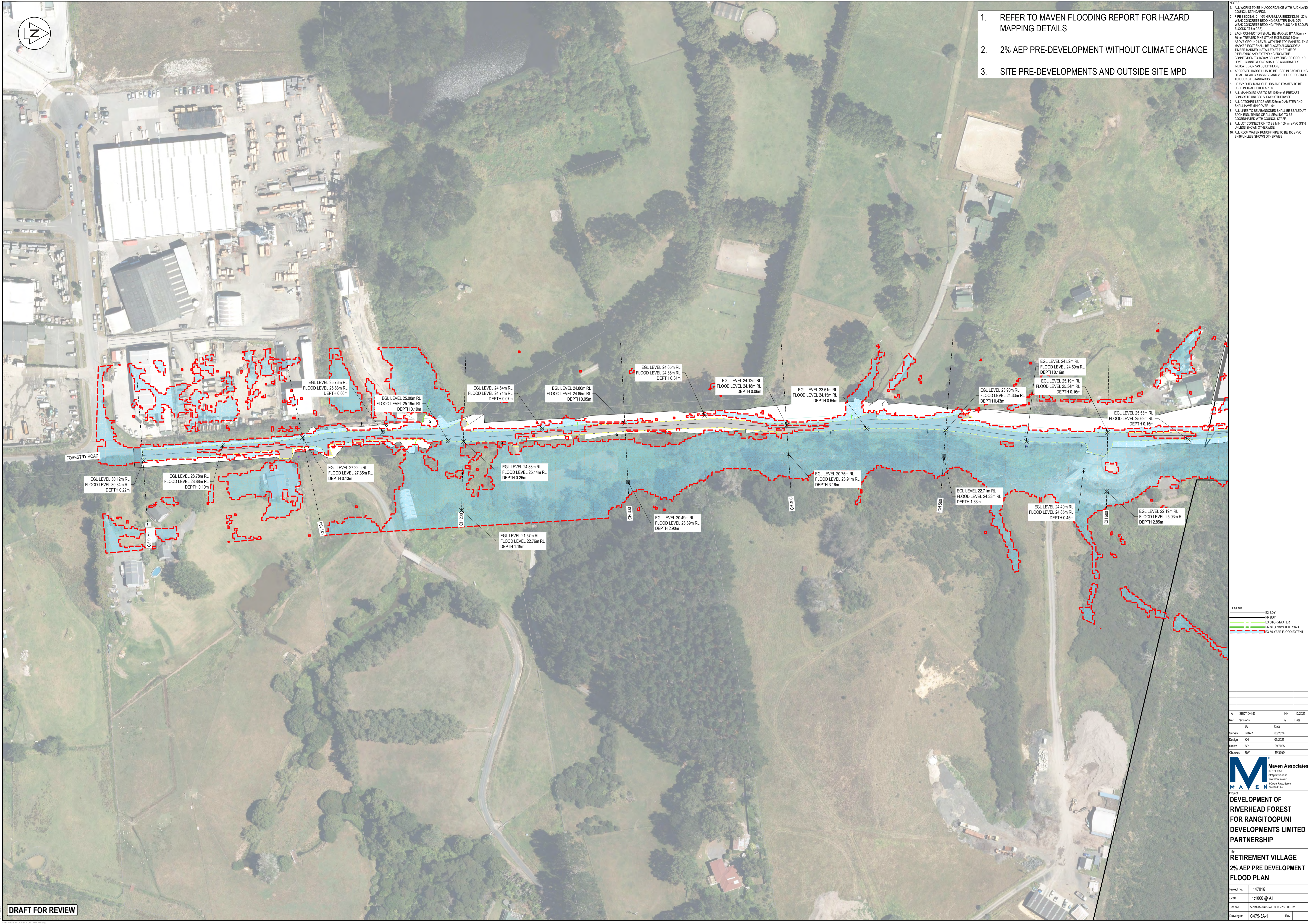


Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**RETIREMENT VILLAGE
2% AEP PRE DEVELOPMENT
FLOOD PLAN**

| | |
|-------------|--------------------------------------|
| Project no. | 147016 |
| Scale | 1:5000 @ A1 |
| Cad file | 147016-RV-CAT5-3A-FLOOD-2016-PRF.DWG |
| Drawing no. | C475-3A-0 |
| Rev | |

DRAFT FOR REVIEW



1. REFER TO MAVEN FLOODING REPORT FOR HAZARD MAPPING DETAILS
2. 2% AEP PRE-DEVELOPMENT WITHOUT CLIMATE CHANGE
3. SITE PRE-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: 75MPa 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 PRELAYSING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
 4. APPROVED HANDBILL IS TO BE USED IN BACKSILLING 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 150mmHD 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 S/N16 UNLESS SHOWN OTHERWISE
 10. ALL ROOF WATER RUNOFF PIPE TO BE 150 UPVC S/N16 UNLESS SHOWN OTHERWISE

- LEGEND
- EX BODY
 - PR BODY
 - EX STORMWATER
 - PR STORMWATER ROAD
 - EX 50-YEAR FLOOD EXTENT

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

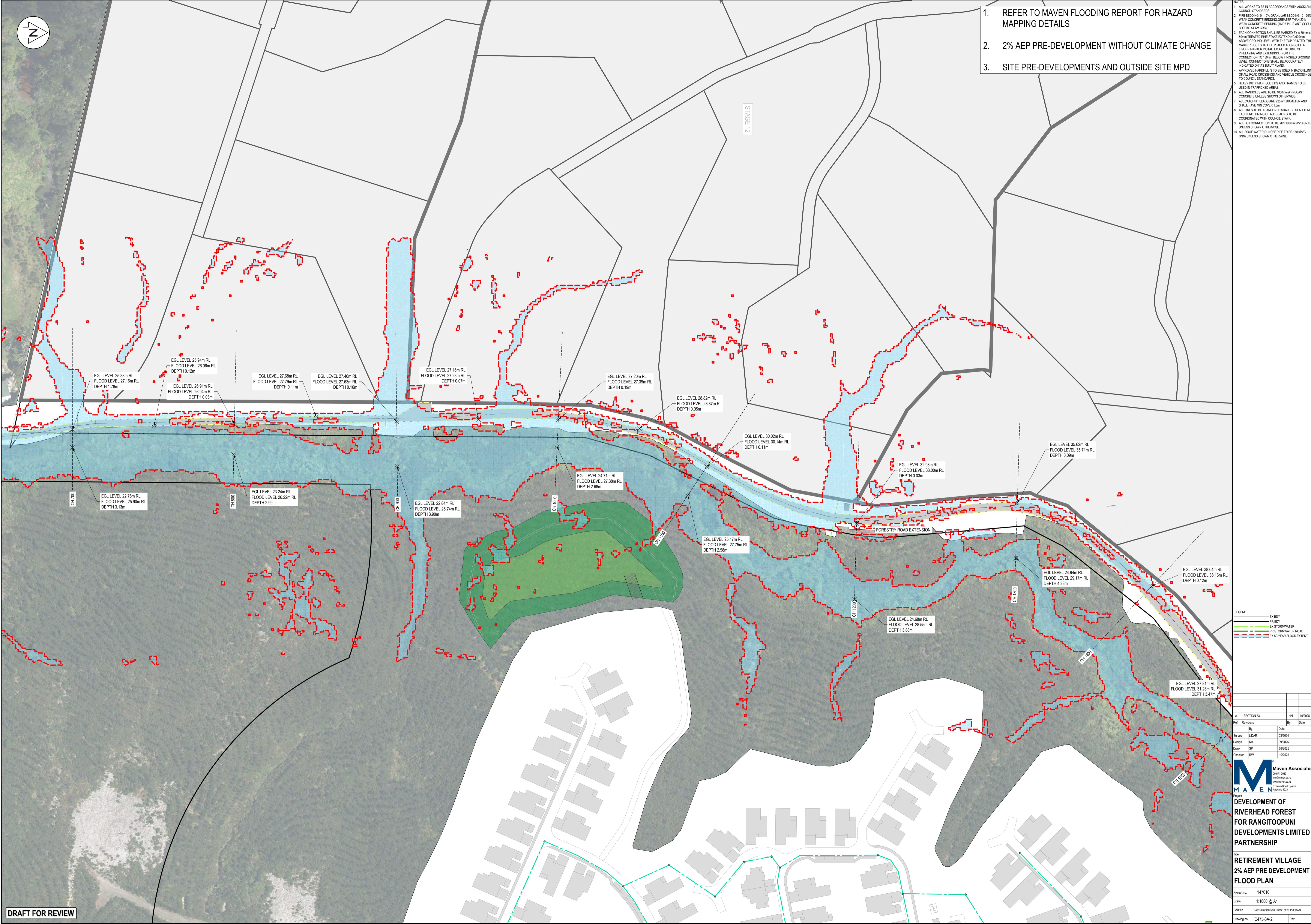
Maven Associates
03 571 0502
maven@maen.co.nz
www.maen.co.nz
5 Queens Road, Epsom
Auckland 1023

MAEN

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE 2% AEP PRE DEVELOPMENT FLOOD PLAN

Project no. 147016
Scale 1:1000 @ A1
Cadd file 147016-RV-CAT5-3A-FLOOD-2024-PRV.DWG
Drawing no. CAT5-3A-1 Rev



1. REFER TO MAVEN FLOODING REPORT FOR HAZARD MAPPING DETAILS
2. 2% AEP PRE-DEVELOPMENT WITHOUT CLIMATE CHANGE
3. SITE PRE-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 MANHOLE 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 150mm 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 S16 UNLESS SHOWN OTHERWISE
 10. ALL ROOF WATER RUNOFF PIPE TO BE 150 UPVC S16 UNLESS SHOWN OTHERWISE

- LEGEND
- EX BOY
 - PR BOY
 - EX STORMWATER
 - EX STORMWATER ROAD
 - EX 50-YEAR FLOOD EXTENT

| | | | |
|-----|------------|----|---------|
| Ref | Revisions | By | Date |
| A | SECTION 53 | HN | 10/2025 |

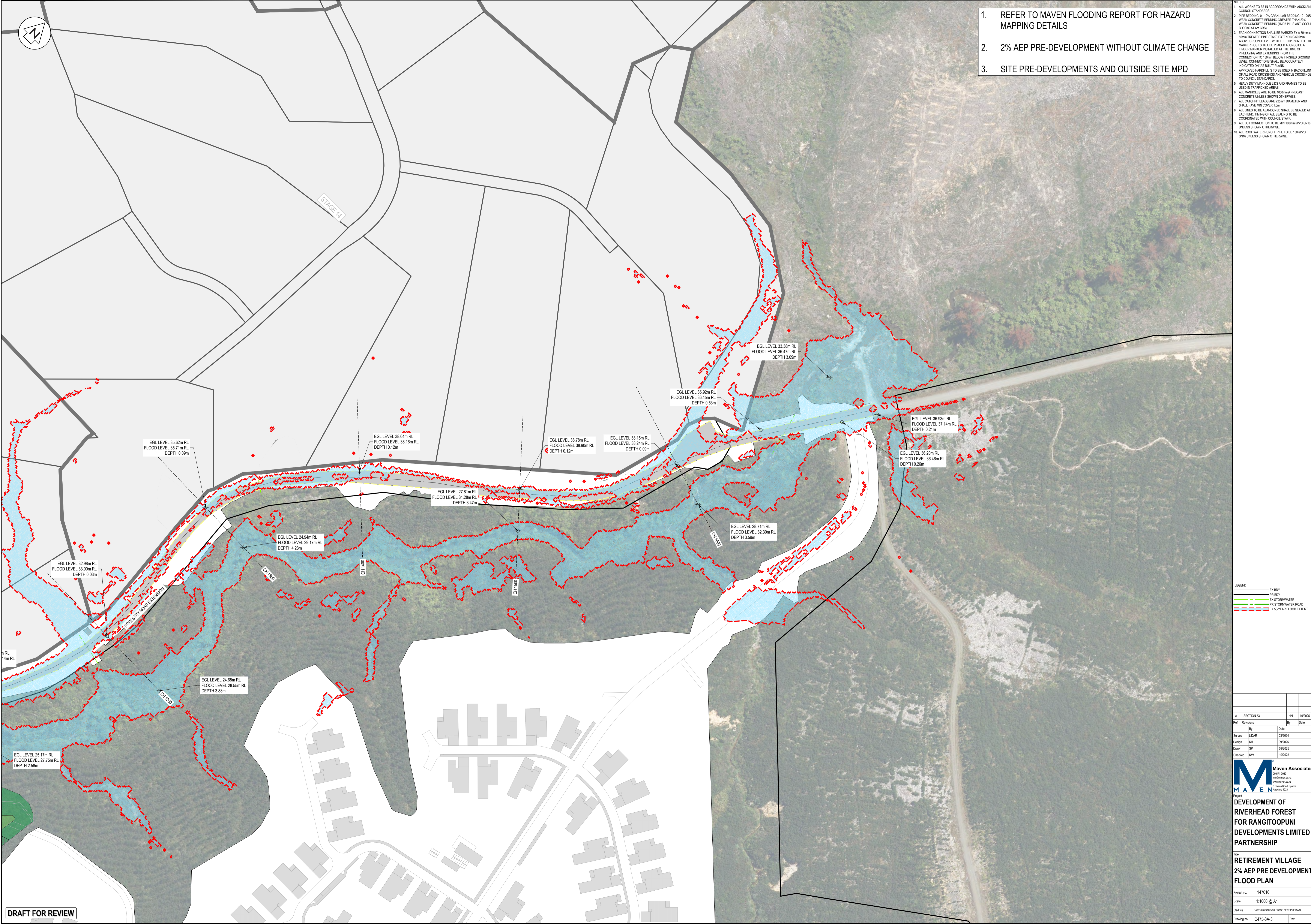
| | | |
|---------|---------|------|
| Survey | By | Date |
| LUDAR | 03/2024 | |
| Design | By | Date |
| SP | 09/2025 | |
| Checked | By | Date |
| RW | 10/2025 | |



Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
RETIREMENT VILLAGE 2% AEP PRE-DEVELOPMENT FLOOD PLAN

| | |
|-------------|---|
| Project no. | 147016 |
| Scale | 1:1000 @ A1 |
| Cad file | N:\2016\47016\47016_2A_FLOOD_2%_PRE.DWG |
| Drawing no. | C475-3A-2 |
| Rev | |



1. REFER TO MAVEN FLOODING REPORT FOR HAZARD MAPPING DETAILS
2. 2% AEP PRE-DEVELOPMENT WITHOUT CLIMATE CHANGE
3. SITE PRE-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 HAWK RILL 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 150mmHD 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. TAMPING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 9. ALL LOT CONNECTION TO BE MIN 100mm uPVC 50/6 UNLESS SHOWN OTHERWISE
 10. ALL ROOF WATER RUNOFF PIPE TO BE 150 uPVC 50/6 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BOD
 - PR BOD
 - EX STORMWATER
 - PR STORMWATER ROAD
 - EX 50-YEAR FLOOD EXTENT

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

MAVEN

MAVEN Associates

03 571 0502

147016-001

www.maven.co.nz

5 Omana Road, Epsom

Auckland 1021

Project

DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title

RETIREMENT VILLAGE 2% AEP PRE DEVELOPMENT FLOOD PLAN

Project no.

147016

Scale

1:1000 @ A1

Client Ref

147016-RV-C475-3A-FLOOD-50YR PRE.DWG

Drawing no.

C475-3A-3

Rev