

10. APPENDICES

10.i APPENDIX A – RELEVANT ENGINEERING PLANS



6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
8. ALL CATCHPIT LEADS 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.

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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 5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.

- LEGEND
- EX BDY
 - PROP BDY
 - STAGE BOUNDARY
 - EX OLFP
 - REMOVED EX OLFP
 - EXISTING STREAMS
 - PR SW FLOW PTH
 - PR SW PIPE
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DESIGN
 - PR RIPRAP
 - PR CULVERT
 - EX CULVERT
 - PR SCRUFFY DOME

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| Survey | LANDPRO | 03/22 | |
| Design | WY | 03/2025 | |
| Drawn | WY | 03/2025 | |
| Checked | RW/KH | 03/2025 | |



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

Title
**PROPOSED
STORMWATER
OVERVIEW - STAGE 1**

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|-------------|--|-----|---|
| Project no. | 147007 | | |
| Scale | 1:10,000 @ A3 | | |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.DWG | | |
| Drawing no. | C400-1-0 | Rev | A |

C400-1-1

STAGE 1

STAGE 3

STAGE 4

STAGE 7

STAGE 6

STAGE 8

STAGE 9

STAGE 12

STAGE 14

STAGE 11

STAGE 10

STAGE 13

PROPOSED
RETIREMENT
VILLAGE

RESOURCE CONSENT



PROPOSED BOX CULVERT 1-1, DETAILS
REFER TO C484 FROM PROJECT NUMBER
147007 AND FLOOD ASSESSMENT REPORT

PROP ROAD SWALE OUTLET 1-2

LOT 11

LOT 10

LOT 48

STAGE 1

LOT 4

LOT 3

LOT 2

LOT 9

LOT 8

LOT 49

OLD NORTH ROAD

LOT 1

LOT 7

LOT 6

LOT 5

PROP SW CIRCULAR
CULVERT 3-1 WITH Ø650mm

LOT 51

LOT 50

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RESOURCE CONSENT

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Title
**PROPOSED
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| | |
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| Project no. | 147007 |
| Scale | 1:10,000 @ A3 |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.DWG |
| Drawing no. | C400-2-0 |
| Rev | A |

RESOURCE CONSENT



STAGE 2

JOAL 1

PROP ROAD SWALE OUTLET 2-1

RESOURCE CONSENT

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Title
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PLAN - STAGE 2**

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| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.WWG |
| Drawing no. | C400-2-1 |
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RESOURCE CONSENT

STAGE 5



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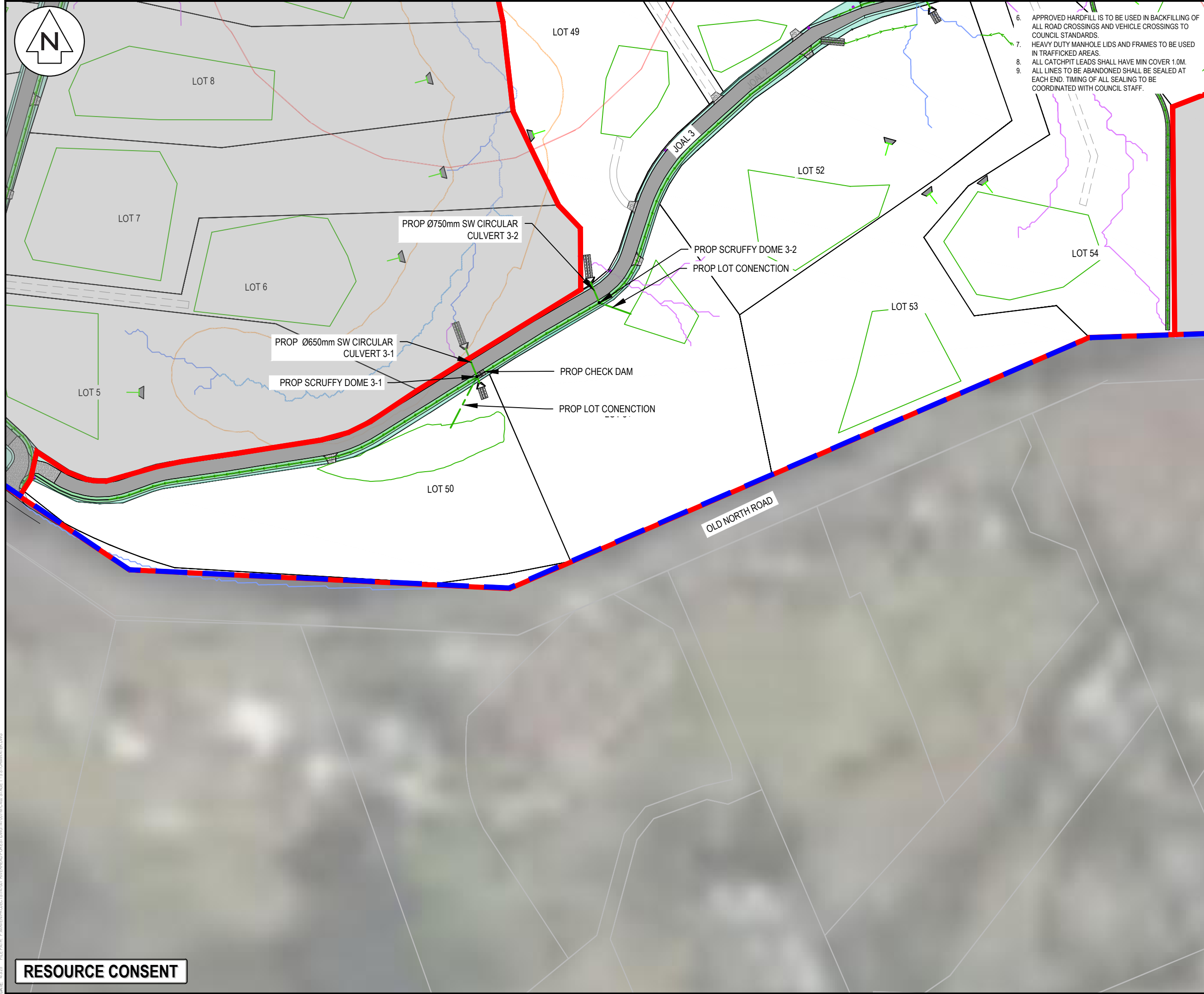
Project
**DEVELOPMENT OF
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Title
**PROPOSED
STORMWATER
OVERVIEW - STAGE 3**

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|-------------|--|
| Project no. | 147007 |
| Scale | 1:10,000 @ A3 |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.DWG |
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RESOURCE CONSENT

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|---|---|
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| STAGE BOUNDARY | STAGE BOUNDARY |
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| REMOVED EX OLFP | REMOVED EX OLFP |
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Project

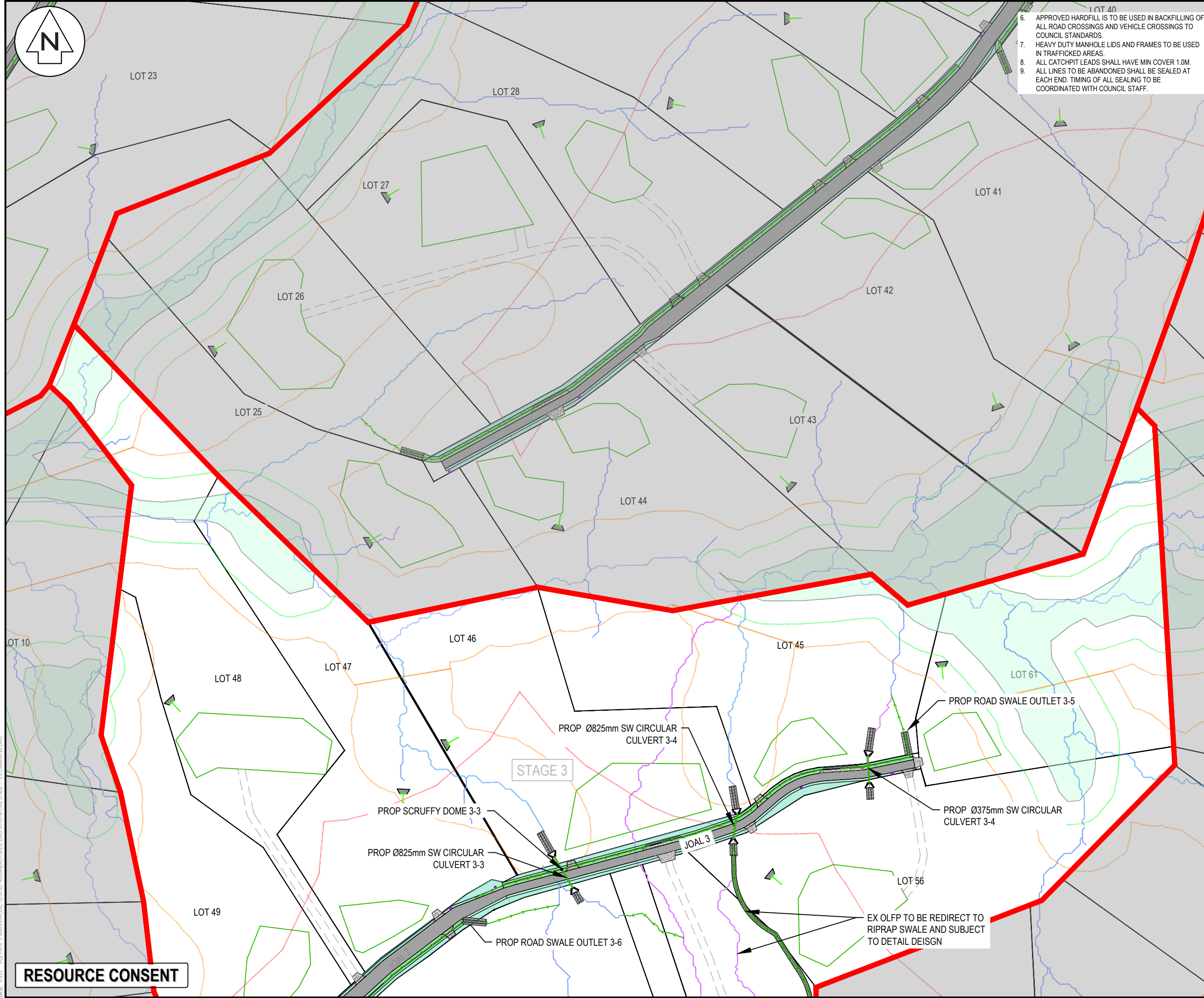
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title

PROPOSED STORMWATER PLAN - STAGE 3

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 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
 5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.

- LEGEND
- EX BDY
 - PROP BDY
 - STAGE BOUNDARY
 - EX OLFP
 - REMOVED EX OLFP
 - EXISTING STREAMS
 - PR SW FLOW PTH
 - PR SW PIPE
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DESIGN
 - PR RIPRAP
 - PR CULVERT
 - EX CULVERT
 - PR SCRUFFY DOME

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| Survey | LANDPRO | | 03/22 |
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| Drawn | WY | | 03/2025 |
| Checked | RW/KH | | 03/2025 |



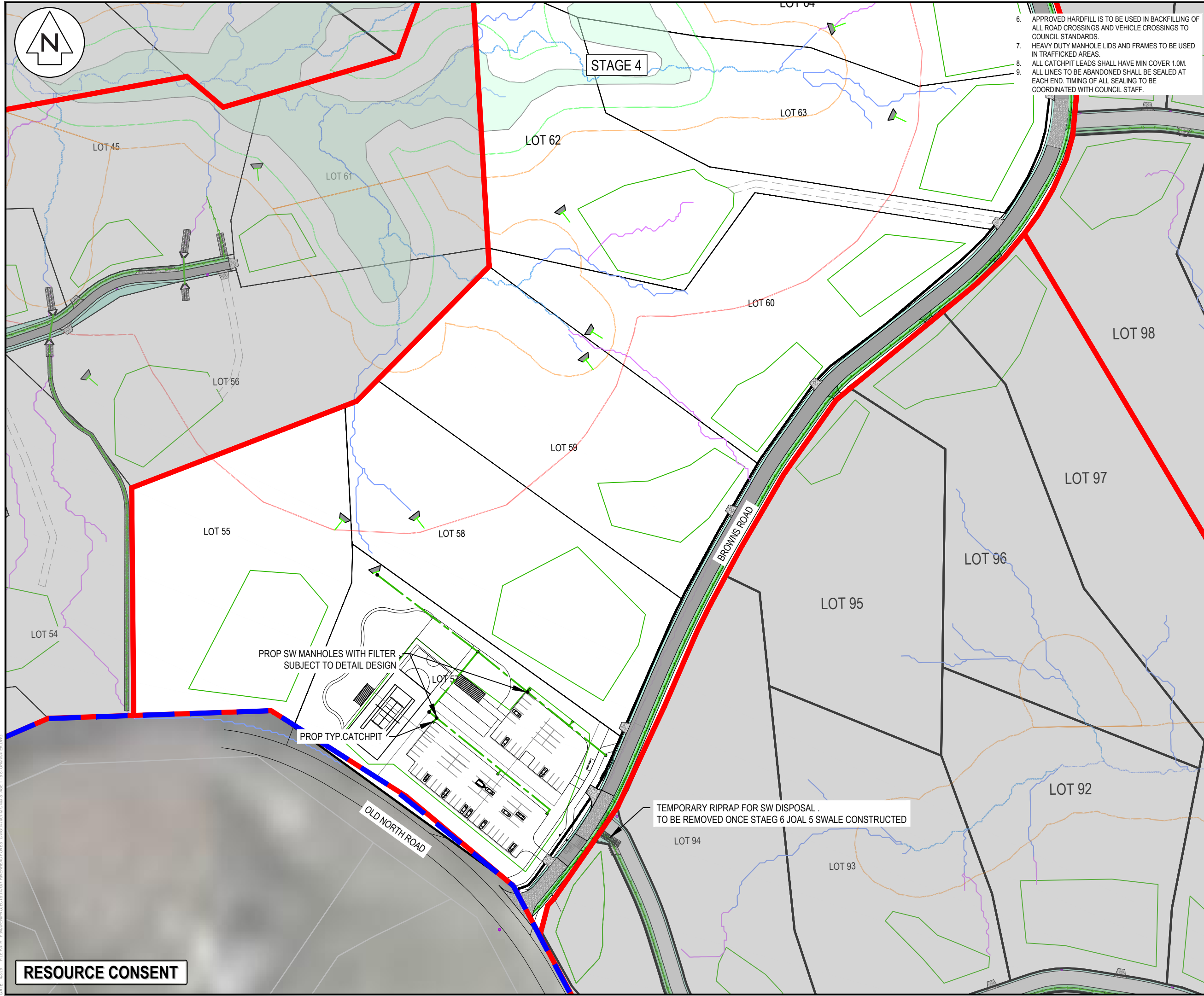
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**PROPOSED
STORMWATER
OVERVIEW - STAGE 4**

| | | | |
|-------------|--|-----|---|
| Project no. | 147007 | | |
| Scale | 1:10,000 @ A3 | | |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.DWG | | |
| Drawing no. | C400-4-0 | Rev | A |

RESOURCE CONSENT

DATE: 5/2/25 FILE PATH: F:\MAVEN\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 1 - 5 STORMWATER.DWG



- 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
- 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
- 8. ALL CATCHPIT LEADS 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.

- NOTES
- 1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 - 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016.
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LEGEND

| | |
|--|---|
| | EX BDY |
| | PROP BDY |
| | STAGE BOUNDARY |
| | EX OLFP |
| | REMOVED EX OLFP |
| | EXISTING STREAMS |
| | PR SW FLOW PTH |
| | PR SW PIPE |
| | RIPIARIAN YARD 20m SETBACK |
| | WETLAND AREA 100m SETBACK |
| | EX/PROP SWMH |
| | PROP SWCP SINGLE |
| | PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DESIGN |
| | PR RIPRAP |
| | PR CULVERT |
| | EX CULVERT |
| | PR SCRUFFY DOME |

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| Rev | Description | By | Date |
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| Survey | LANDPRO | 03/22 | |
| Design | WY | 03/2025 | |
| Drawn | WY | 03/2025 | |
| Checked | RW/KH | 03/2025 | |

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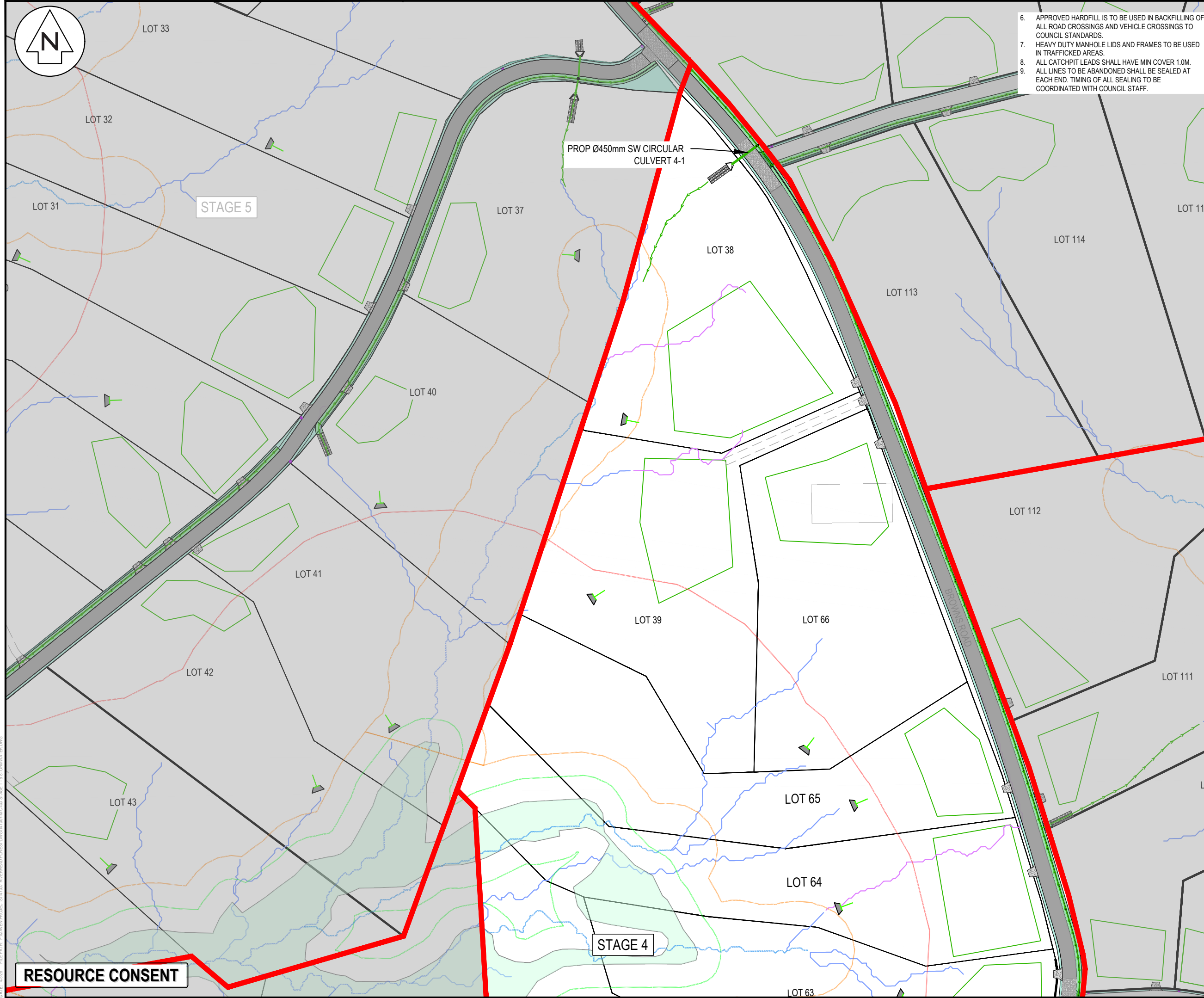
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**PROPOSED
STORMWATER
PLAN - STAGE 4**

| | | | |
|-------------|--|-----|---|
| Project no. | 147007 | | |
| Scale | 1:1500 @ A3 | | |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.W | | |
| Drawing no. | C400-4-1 | Rev | A |

DATE: 03/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 1 - 5 STORMWATER.DWG

RESOURCE CONSENT



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LEGEND

EX BDY

PROP BDY

STAGE BOUNDARY

EX OLFP

REMOVED EX OLFP

EXISTING STREAMS

PR SW FLOW PTH

PR SW PIPE

RIPARIAN YARD
20m SETBACK

WETLAND AREA
100m SETBACK

EX/PROP SWMH

PROP SWCP SINGLE

PR INDICATIVE LEVEL
SPREADER - SUBJECT TO
DETAIL DESIGN

PR RIPRAP

PR CULVERT

EX CULVERT

PR SCRUFFY DOME

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| Survey | LANDPRO | 03/22 | |
| Design | WY | 03/2025 | |
| Drawn | WY | 03/2025 | |
| Checked | RW/KH | 03/2025 | |

M

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5 Owens Road, Epsom

Auckland 1023

Project

DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP

Title

PROPOSED
STORMWATER
PLAN - STAGE 4

| | | | |
|-------------|---------------------------------------|-----|----------|
| Project no. | 147007 | | |
| Scale | 1:1500 @ A3 | | |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER. | | |
| Drawing no. | C400-4-2 | Rev | A |

DATE: 03/25 FILE PATH: F:\MVEN\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 1 - 5 STORMWATER.DWG



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- LEGEND
- EX BDY
 - PROP BDY
 - STAGE BOUNDARY
 - EX OLFP
 - REMOVED EX OLFP
 - EXISTING STREAMS
 - PR SW FLOW PTH
 - PR SW PIPE
 - RIPARIAN YARD 20m SETBACK
 - WETLAND AREA 100m SETBACK
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DESIGN
 - PR RIPRAP
 - PR CULVERT
 - EX CULVERT
 - PR SCRUFFY DOME

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| Rev | Description | By | Date |
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| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
| Drawn | WY | | 03/2025 |
| Checked | RW/KH | | 03/2025 |

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Auckland 1023

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

Title
**PROPOSED
STORMWATER
OVERVIEW - STAGE 5**

| | |
|-------------|--|
| Project no. | 147007 |
| Scale | 1:10,000 @ A3 |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.DWG |
| Drawing no. | C400-5-0 |
| Rev | A |

RESOURCE CONSENT



6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
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- LEGEND
- EX BDY
PROP BDY
STAGE BOUNDARY
EX OLFP
REMOVED EX OLFP
EXISTING STREAMS
PR SW FLOW PTH
PR SW PIPE
- RIPARIAN YARD
20m SETBACK
WETLAND AREA
100m SETBACK
- EX/PROP SWMH
PROP SWCP SINGLE
PR INDICATIVE LEVEL
SPREADER - SUBJECT TO
DETAIL DESIGN
- PR RIPRAP
PR CULVERT
EX CULVERT
PR SCRUFFY DOME

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| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
| Drawn | WY | | 03/2025 |
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Auckland 1023

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

Title
**PROPOSED
STORMWATER
PLAN - STAGE 5**

| | |
|-------------|---|
| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.WG |
| Drawing no. | C400-5-1 |
| Rev | A |

PROP ROAD SWALE OUTLET 5-1

PROP SCRUFFY DOME 5-2

PROP SW CIRCULAR
CULVERT 5-2 WITH Ø450mm

LOT 17

LOT 18

LOT 16

LOT 34

LOT 35

LOT 36

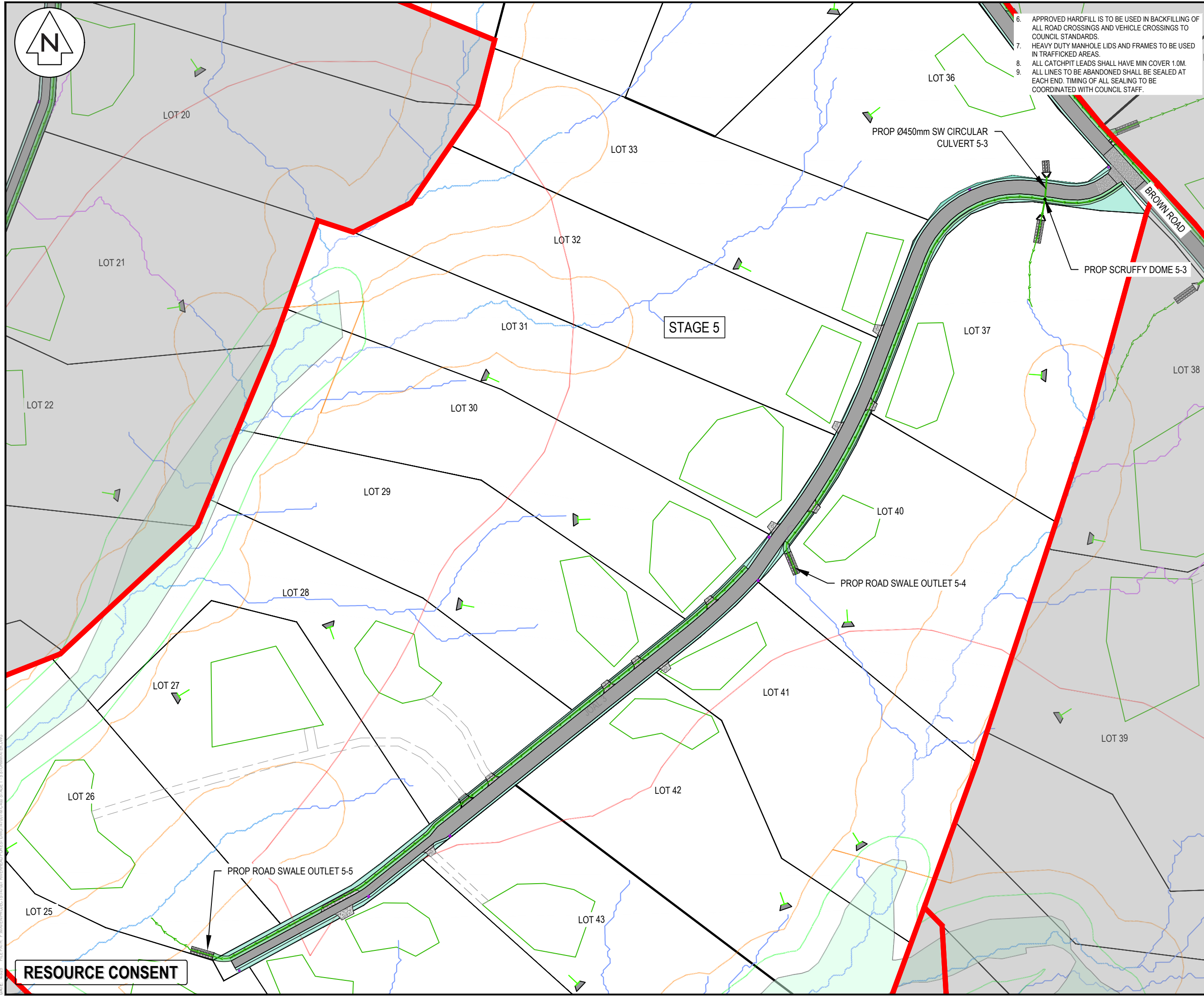
LOT 33

LOT 20

LOT 15

RESOURCE CONSENT

DATE: 03/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 1 - 5 STORMWATER.DWG



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LEGEND

| | |
|--|---|
| | EX BDY |
| | PROP BDY |
| | STAGE BOUNDARY |
| | EX OLFP |
| | REMOVED EX OLFP |
| | EXISTING STREAMS |
| | PR SW FLOW PTH |
| | PR SW PIPE |
| | RIPARIAN YARD 20m SETBACK |
| | WETLAND AREA 100m SETBACK |
| | EX/PROP SWMH |
| | PROP SWCP SINGLE |
| | PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DESIGN |
| | PR RIPRAP |
| | PR CULVERT |
| | EX CULVERT |
| | PR SCRUFFY DOME |

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| Survey | LANDPRO | | 03/22 | |
| Design | WY | | 03/2025 | |
| Drawn | WY | | 03/2025 | |
| Checked | RW/KH | | 03/2025 | |

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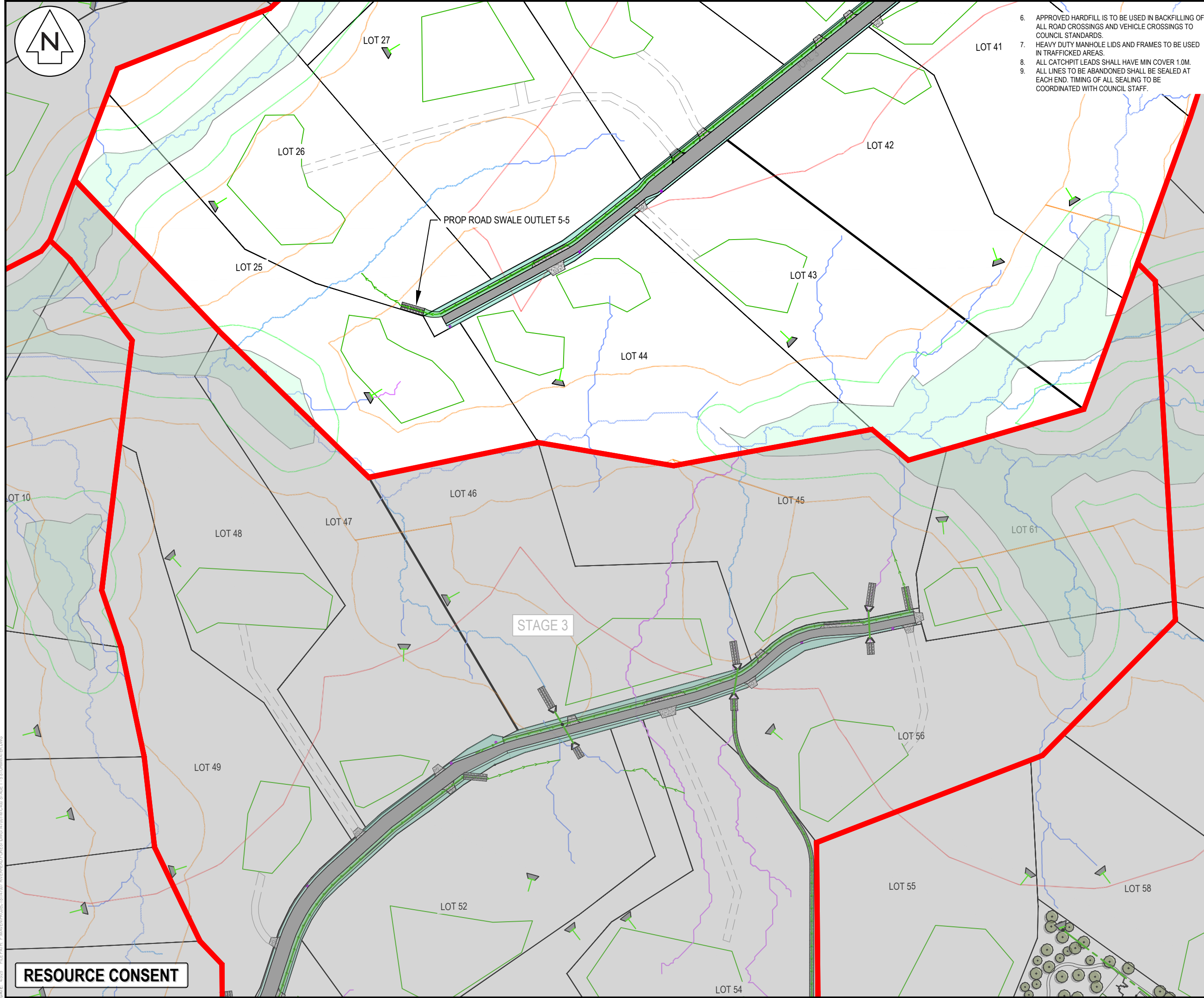
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**PROPOSED
STORMWATER
PLAN - STAGE 5**

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|-------------|--|
| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER.MWG |
| Drawing no. | C400-5-2 |
| Rev | A |

DATE: 03/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 1 - 5 STORMWATER.DWG

RESOURCE CONSENT



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LEGEND

| | |
|--|---|
| | EX BDY |
| | PROP BDY |
| | STAGE BOUNDARY |
| | EX OLFP |
| | REMOVED EX OLFP |
| | EXISTING STREAMS |
| | PR SW FLOW PTH |
| | PR SW PIPE |
| | RIPARIAN YARD 20m SETBACK |
| | WETLAND AREA 100m SETBACK |
| | EX/PROP SWMH |
| | PROP SWCP SINGLE |
| | PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DESIGN |
| | PR RIPRAP |
| | PR CULVERT |
| | EX CULVERT |
| | PR SCRUFFY DOME |

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| Rev | Description | By | Date |
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| Survey | LANDPRO | 03/22 | |
| Design | WY | 03/2025 | |
| Drawn | WY | 03/2025 | |
| Checked | RW/KH | 03/2025 | |



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

Title
**PROPOSED
STORMWATER
PLAN - STAGE 5**

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|-------------|---------------------------------------|-----|----------|
| Project no. | 147007 | | |
| Scale | 1:1500 @ A3 | | |
| Cad file | 147007-M-C400 STAGE 1 - 5 STORMWATER. | | |
| Drawing no. | C400-5-3 | Rev | A |

DATE: 03/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 1 - 5 STORMWATER.DWG

RESOURCE CONSENT



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- LEGEND
- EX BDY
PROP BDY
STAGE BOUNDARY
EX OLFP
REMOVED EX OLFP
EXISTING STREAMS
PR SW FLOW PTH
PR SW PIPE
10m STREAM SETBACK
RIPARIAN YARD
20m SETBACK
WETLAND AREA
100m SETBACK
- EX/PROP SWMH
PROP SWCP SINGLE
PR INDICATIVE LEVEL
SPREADER - SUBJECT TO
DETAIL DESIGN
- PR RIPRAP
PR CULVERT
EX CULVERT
PR SCRUFFY DOME

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| A | RC | WY | 03/2025 |
| Rev | Description | By | Date |
| | | By | Date |
| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
| Drawn | WY | | 03/2025 |
| Checked | RW/KH | | 03/2025 |

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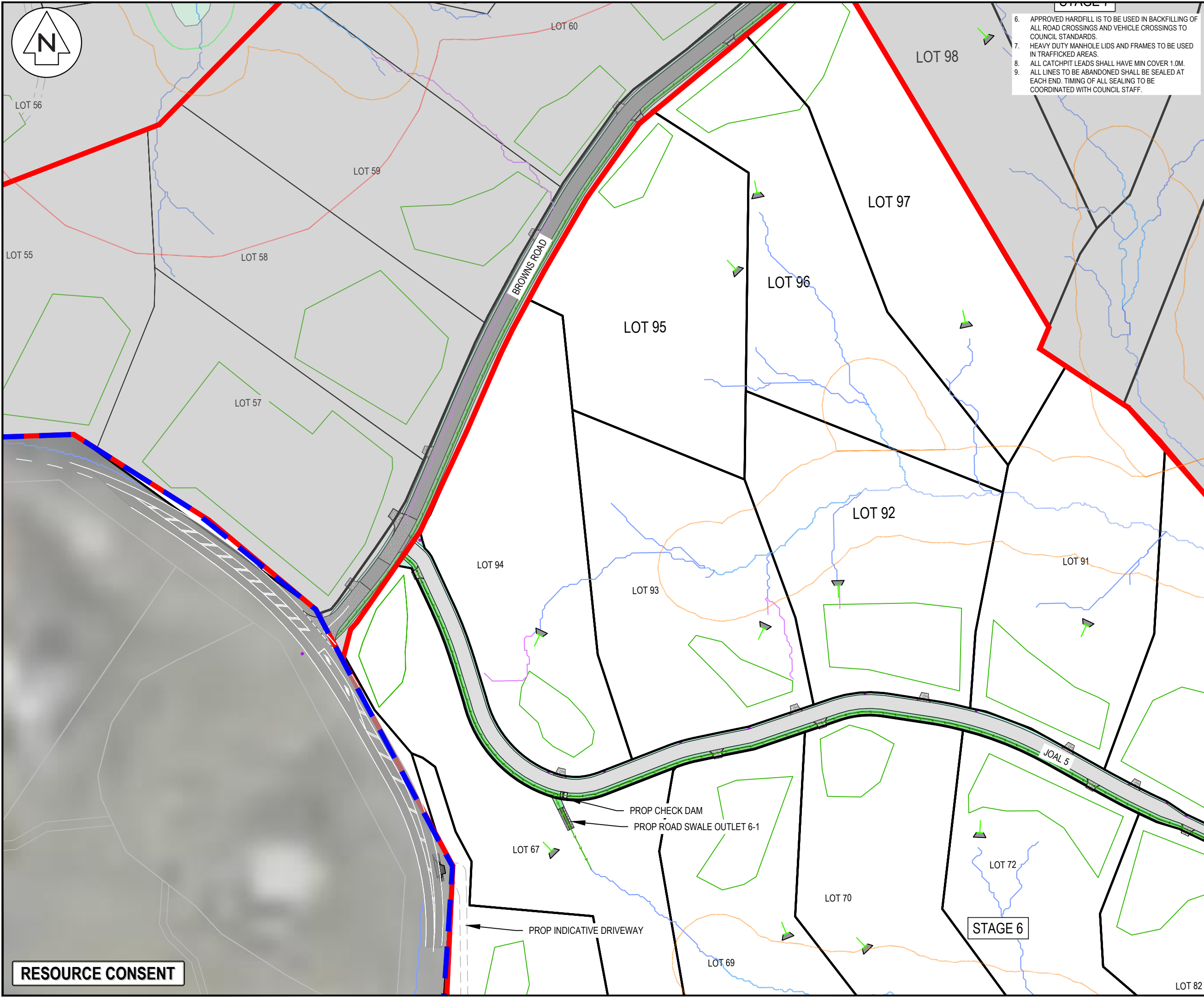
Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**PROPOSED
STORMWATER
OVERVIEW - STAGE 6**

| | |
|-------------|--|
| Project no. | 147007 |
| Scale | 1:10,000 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-6-0 |
| Rev | A |

RESOURCE CONSENT

DATE: 5/2/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 6 - 7 STORMWATER.DWG



- STAGE 6**
- 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 - 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 - 8. ALL CATCHPIT LEADS 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.

- NOTES**
- 1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 - 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016.
 - 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 - 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
 - 5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.

- LEGEND**
- EX BDY
 - PROP BDY
 - STAGE BOUNDARY
 - EX OLFP
 - REMOVED EX OLFP
 - EXISTING STREAMS
 - PR SW FLOW PTH
 - PR SW PIPE
 - 10m STREAM SETBACK
 - RIPARIAN YARD
 - 20m SETBACK
 - WETLAND AREA
 - 100m SETBACK
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DEISGN
 - PR RIPRAP
 - PR CULVERT
 - EX CULVERT
 - PR SCRUFFY DOME

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| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
| Drawn | WY | | 03/2025 |
| Checked | RW/KH | | 03/2025 |

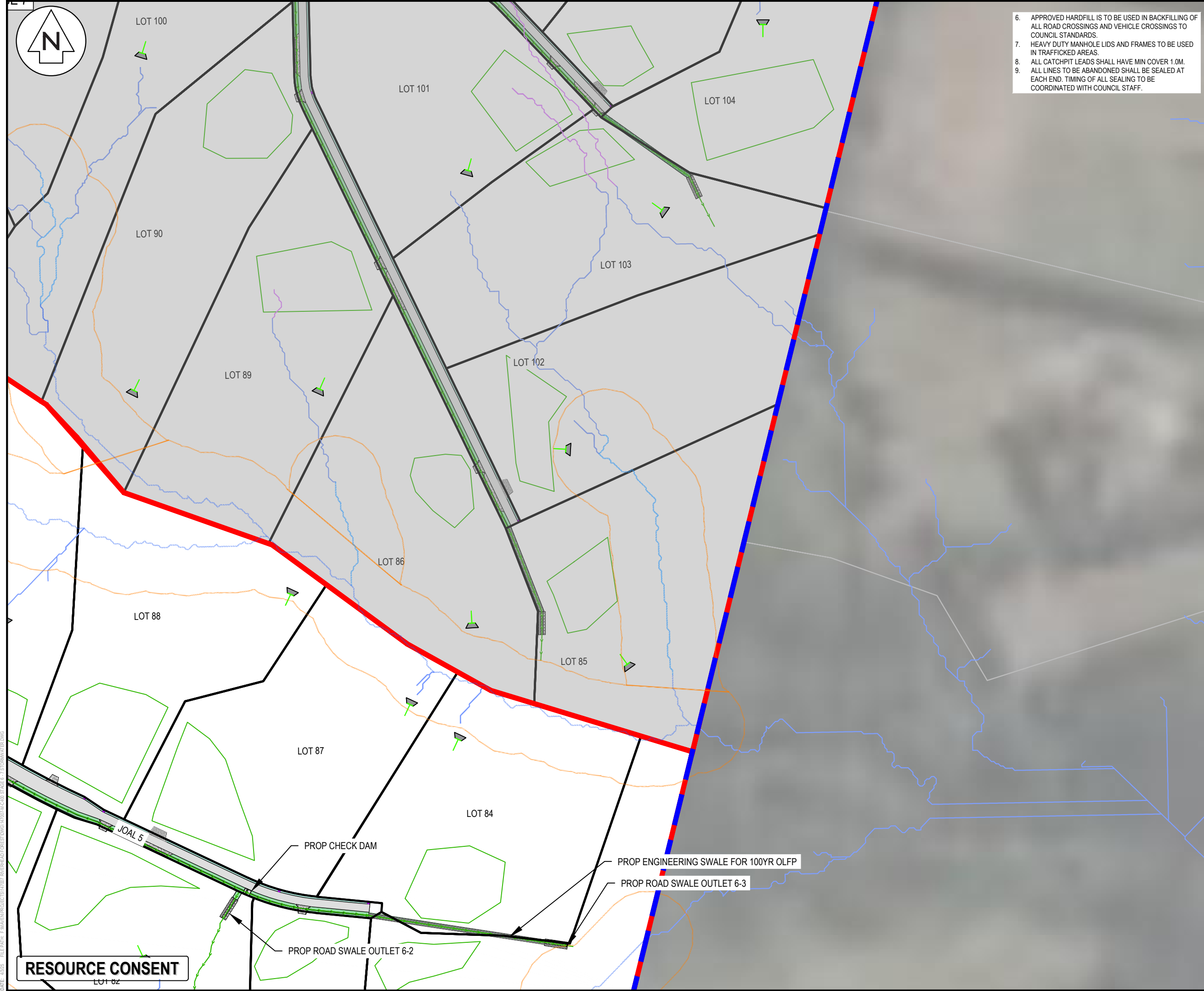
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**PROPOSED
STORMWATER
PLAN - STAGE 6**

| | |
|-------------|--|
| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-6-1 |
| Rev | A |

RESOURCE CONSENT



- 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
- 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
- 8. ALL CATCHPIT LEADS 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.

- NOTES
- 1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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 - 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
 - 5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.

LEGEND

| | |
|--|-----------------------|
| | EX BDY |
| | PROP BDY |
| | STAGE BOUNDARY |
| | EX OLFP |
| | REMOVED EX OLFP |
| | EXISTING STREAMS |
| | PR SW FLOW PTH |
| | PR SW PIPE |
| | 10m STREAM SETBACK |
| | RIPARIAN YARD |
| | 20m SETBACK |
| | WETLAND AREA |
| | 100m SETBACK |
| | EX/PROP SWMH |
| | PROP SWCP SINGLE |
| | PR INDICATIVE LEVEL |
| | SPREADER - SUBJECT TO |
| | DETAIL DEISGN |
| | PR RIPRAP |
| | PR CULVERT |
| | EX CULVERT |
| | PR SCRUFFY DOME |

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| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
| Drawn | WY | | 03/2025 |
| Checked | RW/KH | | 03/2025 |

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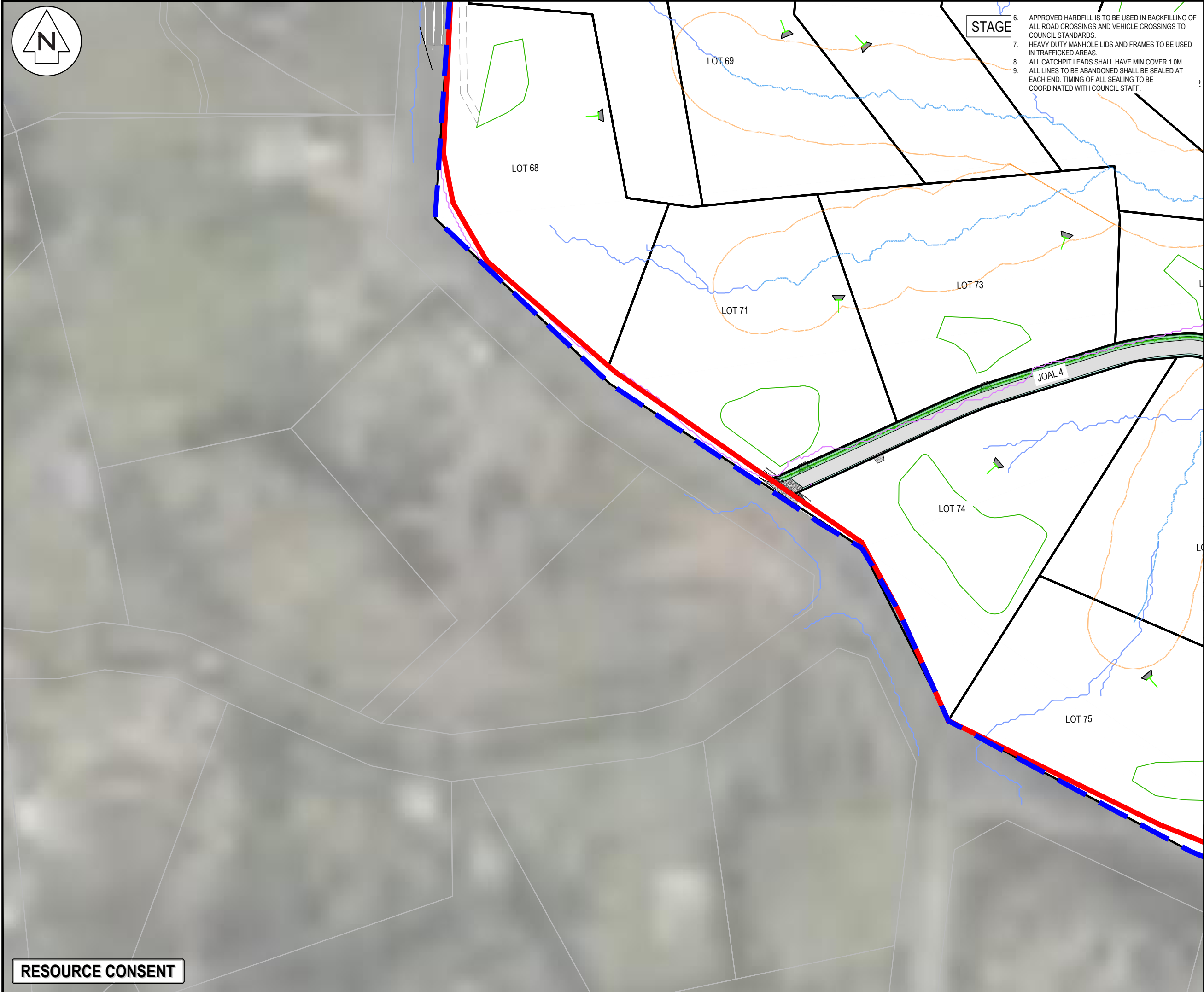
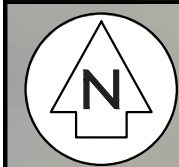
Project

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

Title

**PROPOSED
STORMWATER
PLAN - STAGE 6**

| | |
|-------------|--|
| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-6-2 |
| Rev | A |



STAGE

- APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
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- ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0M.
- ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

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- LEGEND
- EX BDY
 - PROP BDY
 - STAGE BOUNDARY
 - EX OLFP
 - REMOVED EX OLFP
 - EXISTING STREAMS
 - PR SW FLOW PTH
 - PR SW PIPE
 - 10m STREAM SETBACK
 - RIPARIAN YARD
 - 20m SETBACK
 - WETLAND AREA
 - 100m SETBACK
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PR INDICATIVE LEVEL
 - SPREADER - SUBJECT TO DETAIL DEISGN
 - PR RIPRAP
 - PR CULVERT
 - EX CULVERT
 - PR SCRUFFY DOME

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| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
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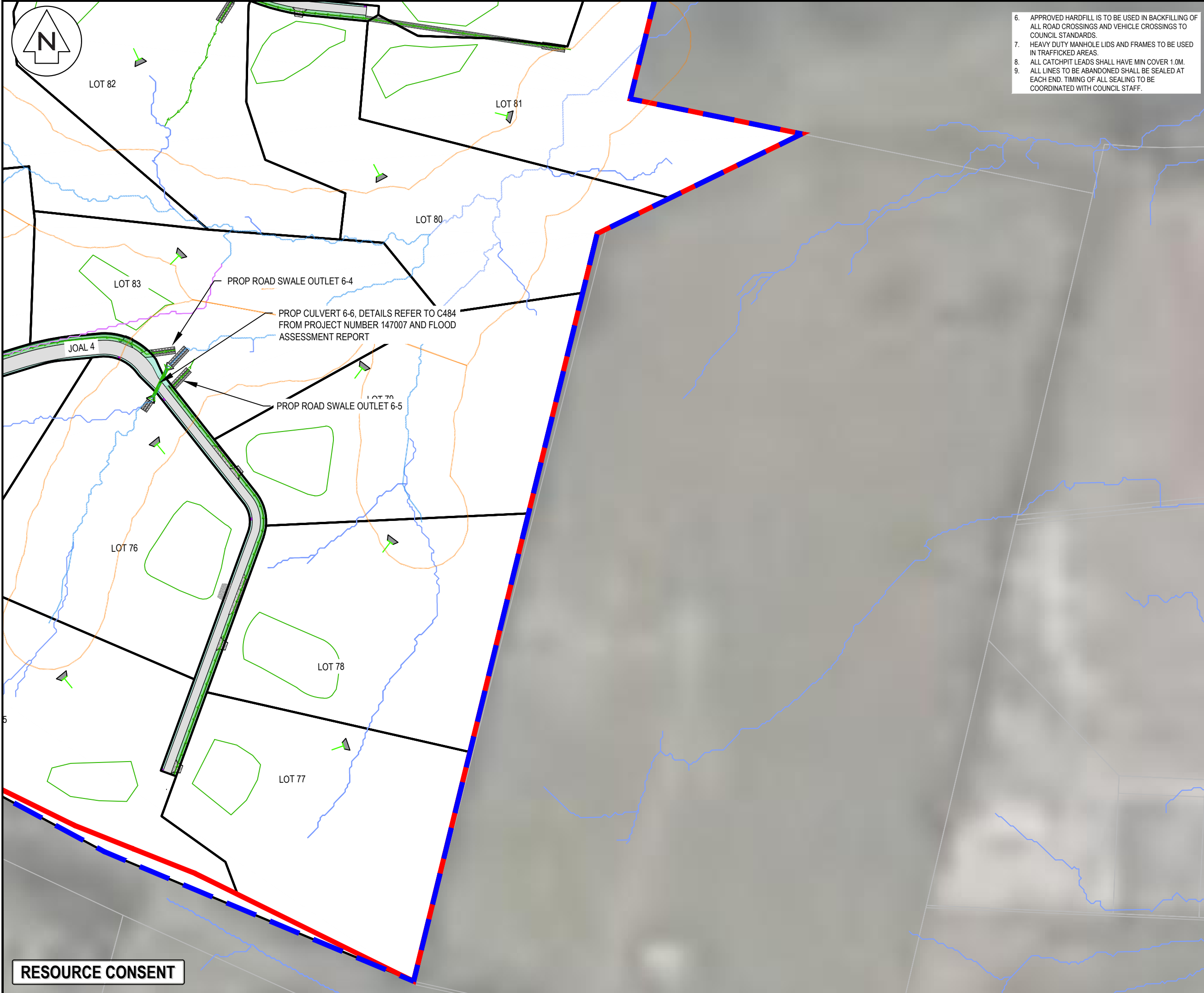
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Auckland 1023

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

Title
**PROPOSED
STORMWATER
PLAN - STAGE 6**

| | |
|-------------|--|
| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-6-3 |
| Rev | A |

RESOURCE CONSENT



- 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
- 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
- 8. ALL CATCHPIT LEADS 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.

- NOTES
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- LEGEND
- EX BDY
 - PROP BDY
 - STAGE BOUNDARY
 - EX OLFP
 - REMOVED EX OLFP
 - EXISTING STREAMS
 - PR SW FLOW PTH
 - PR SW PIPE
 - 10m STREAM SETBACK
 - 20m SETBACK
 - 100m SETBACK
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PR INDICATIVE LEVEL
 - SPREADER - SUBJECT TO DETAIL DESIGN
 - PR RIPRAP
 - PR CULVERT
 - EX CULVERT
 - PR SCRUFFY DOME

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| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
| Drawn | WY | | 03/2025 |
| Checked | RW/KH | | 03/2025 |

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

Title
**PROPOSED
STORMWATER
PLAN - STAGE 6**

| | |
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| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-6-4 |
| Rev | A |

RESOURCE CONSENT



6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
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- LEGEND
- EX BDY
 - PROP BDY
 - STAGE BOUNDARY
 - EX OLFP
 - REMOVED EX OLFP
 - EXISTING STREAMS
 - PR SW FLOW PTH
 - PR SW PIPE
 - 10m STREAM SETBACK
 - RIPARIAN YARD
 - 20m SETBACK
 - WETLAND AREA
 - 100m SETBACK
 - EX/PROP SWMH
 - PROP SWCP SINGLE
 - PR INDICATIVE LEVEL
 - SPREADER - SUBJECT TO DETAIL DEISGN
 - PR RIPRAP
 - PR CULVERT
 - EX CULVERT
 - PR SCRUFFY DOME

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| Survey | LANDPRO | | 03/22 |
| Design | WY | | 03/2025 |
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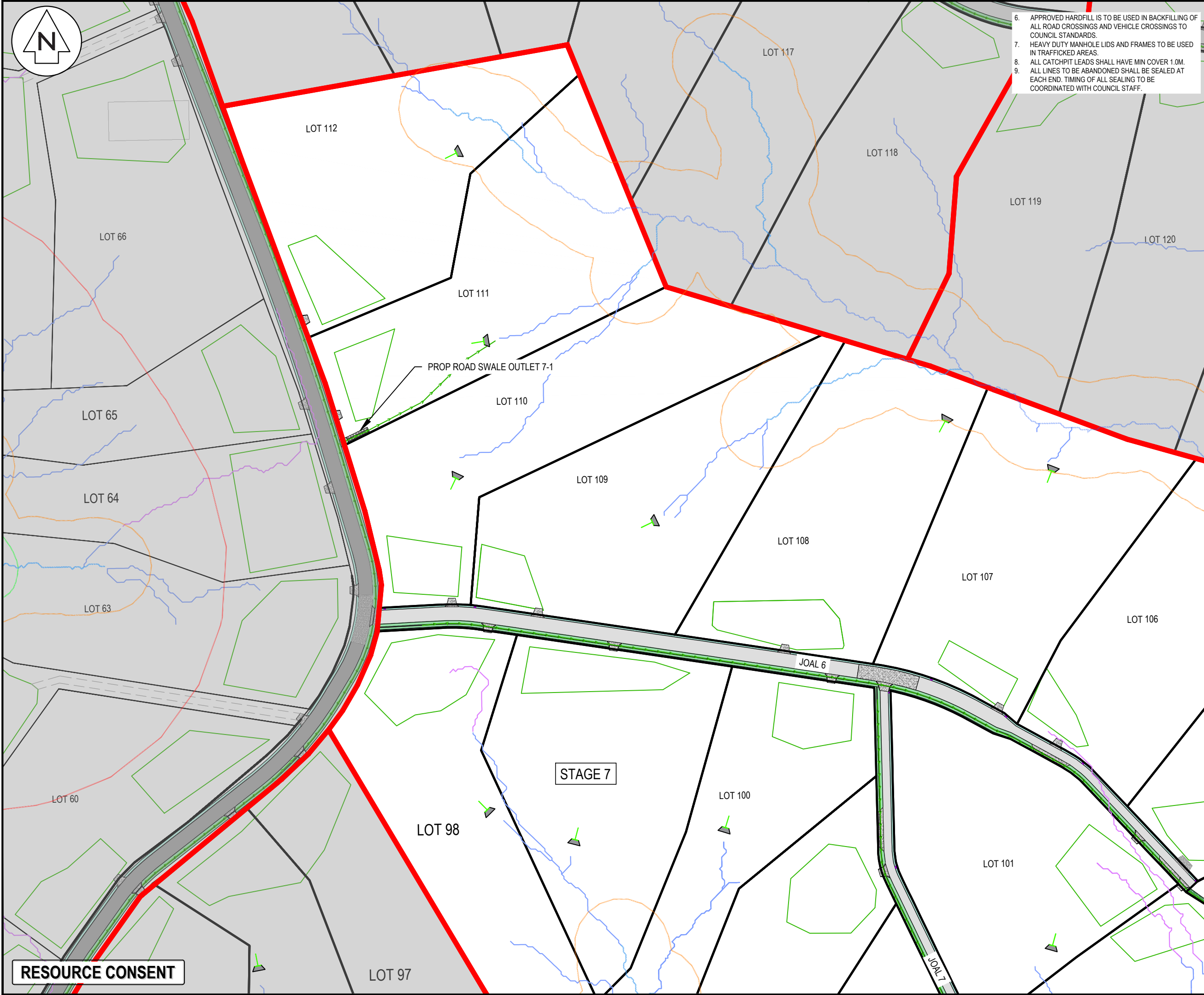
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Project
**DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED
PARTNERSHIP**

Title
**PROPOSED
STORMWATER
OVERVIEW - STAGE 7**

| | |
|-------------|--|
| Project no. | 147007 |
| Scale | 1:10,000 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-7-0 |
| Rev | A |

RESOURCE CONSENT



- 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
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LEGEND

| | |
|--|---|
| | EX BDY |
| | PROP BDY |
| | STAGE BOUNDARY |
| | EX OLFP |
| | REMOVED EX OLFP |
| | EXISTING STREAMS |
| | PR SW FLOW PTH |
| | PR SW PIPE |
| | 10m STREAM SETBACK |
| | RIPARIAN YARD |
| | 20m SETBACK |
| | WETLAND AREA |
| | 100m SETBACK |
| | EX/PROP SWMH |
| | PROP SWCP SINGLE |
| | PR INDICATIVE LEVEL SPREADER - SUBJECT TO DETAIL DEISGN |
| | PR RIPRAP |
| | PR CULVERT |
| | EX CULVERT |
| | PR SCRUFFY DOME |

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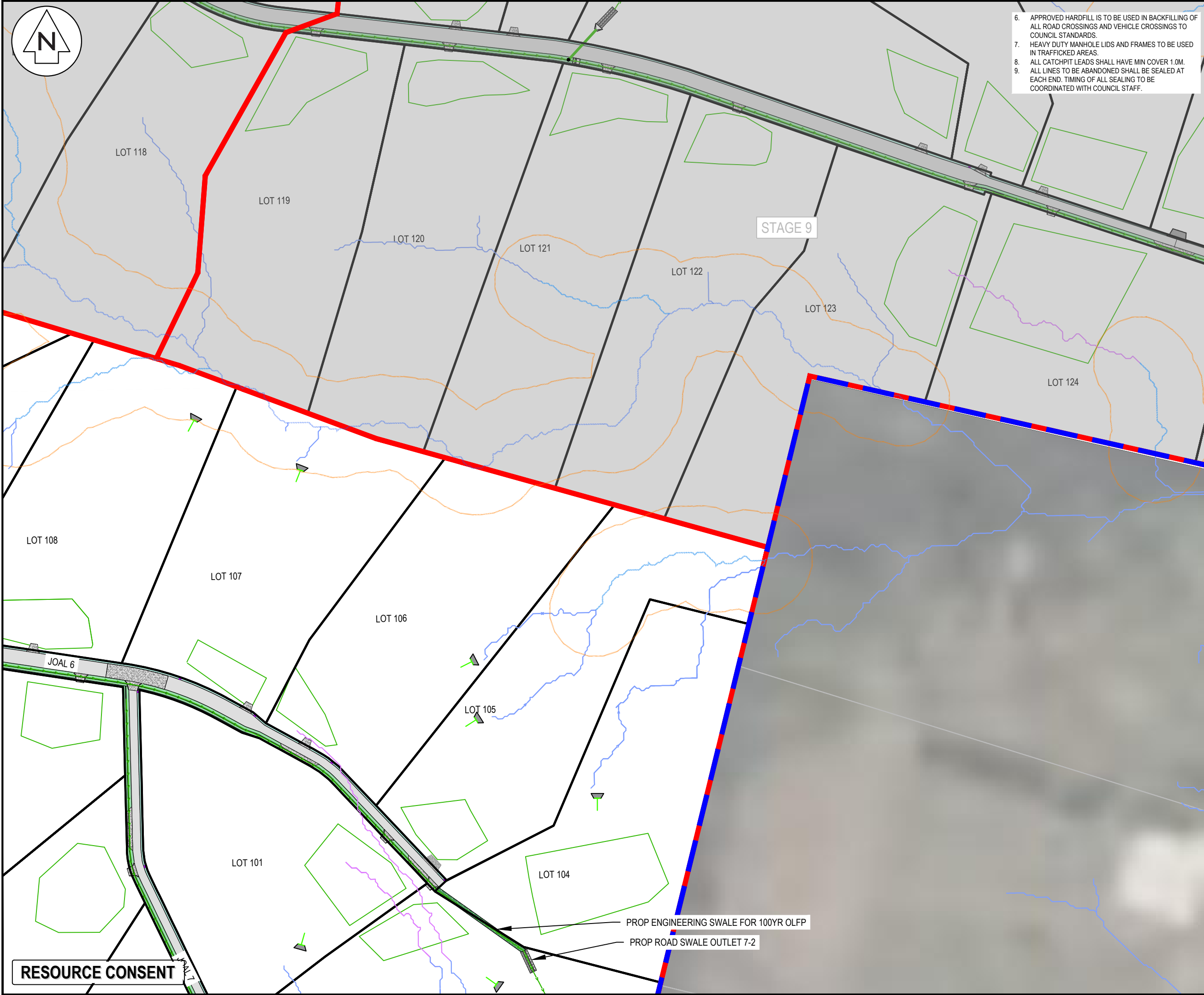
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Auckland 1023

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
PROPOSED STORMWATER PLAN - STAGE 7

| | |
|-------------|--|
| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-7-1 |
| Rev | A |

RESOURCE CONSENT



- 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
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LEGEND

- EX BDY
- PROP BDY
- STAGE BOUNDARY
- EX OLFP
- REMOVED EX OLFP
- EXISTING STREAMS
- PR SW FLOW PTH
- PR SW PIPE
- 10m STREAM SETBACK
- RIPARIAN YARD
- 20m SETBACK
- WETLAND AREA
- 100m SETBACK
- EX/PROP SWMH
- PROP SWCP SINGLE
- PR INDICATIVE LEVEL
- SPREADER - SUBJECT TO DETAIL DEISGN
- PR RIPRAP
- PR CULVERT
- EX CULVERT
- PR SCRUFFY DOME

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| Drawn | WY | | 03/2025 |
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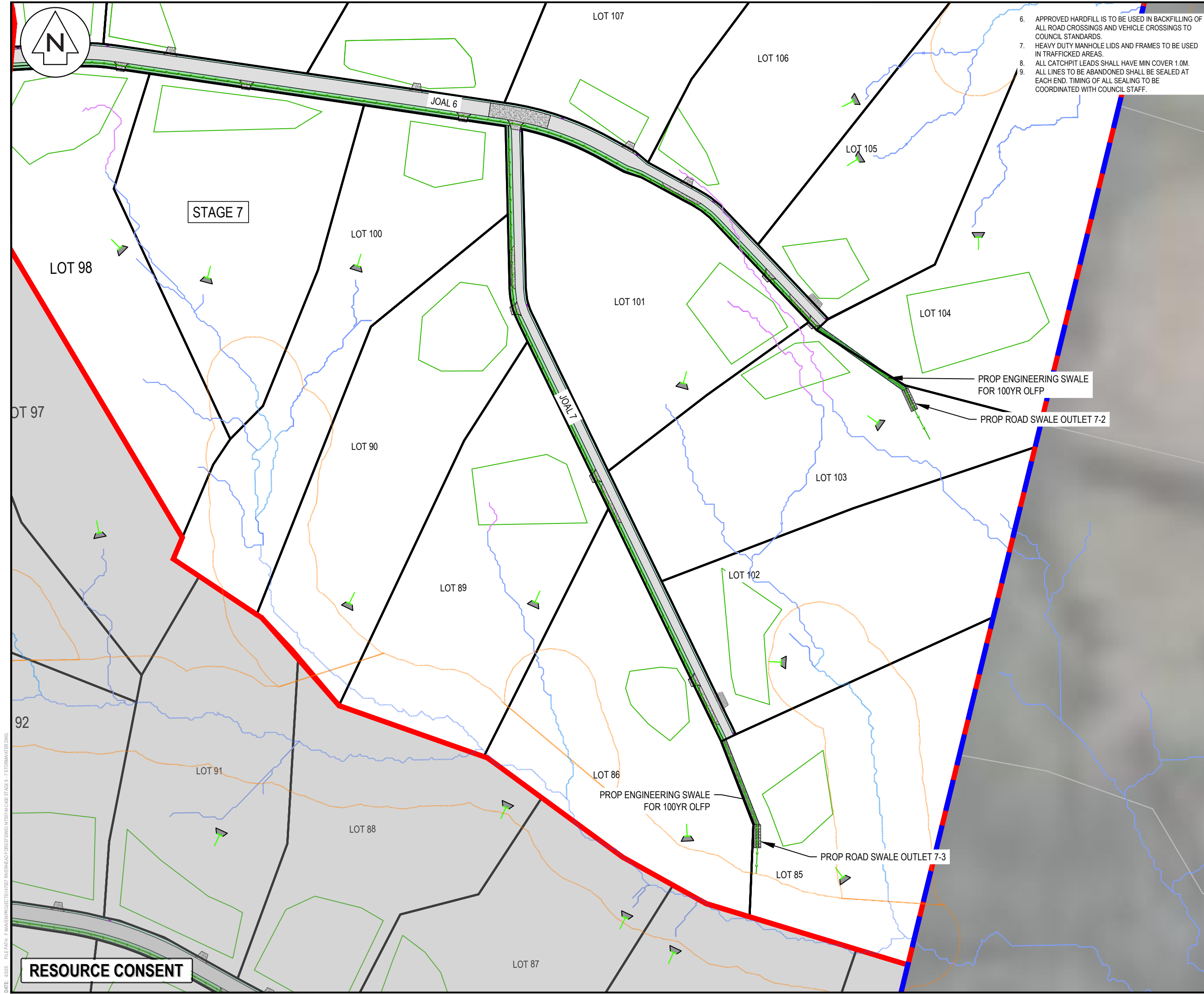
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Auckland 1023

Project
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title
PROPOSED STORMWATER PLAN - STAGE 7

| | |
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| Project no. | 147007 |
| Scale | 1:1500 @ A3 |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG |
| Drawing no. | C400-7-2 |
| Rev | A |

DATE: 4/02/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 6 - 7 STORMWATER.DWG



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LEGEND

| | |
|------------------------------------|------------------------------------|
| EX BDY | EX BDY |
| PROP BDY | PROP BDY |
| STAGE BOUNDARY | STAGE BOUNDARY |
| EX OLFP | EX OLFP |
| REMOVED EX OLFP | REMOVED EX OLFP |
| EXISTING STREAMS | EXISTING STREAMS |
| PR SW FLOW PTH | PR SW FLOW PTH |
| PR SW PIPE | PR SW PIPE |
| 10m STREAM SETBACK | 10m STREAM SETBACK |
| RIPARIAN YARD | RIPARIAN YARD |
| 20m SETBACK | 20m SETBACK |
| WETLAND AREA | WETLAND AREA |
| 100m SETBACK | 100m SETBACK |
| EX/PROP SWMH | EX/PROP SWMH |
| PROP SWCP SINGLE | PROP SWCP SINGLE |
| PR INDICATIVE LEVEL | PR INDICATIVE LEVEL |
| SREADER - SUBJECT TO DETAIL DEISGN | SREADER - SUBJECT TO DETAIL DEISGN |
| PR RIPRAP | PR RIPRAP |
| PR CULVERT | PR CULVERT |
| EX CULVERT | EX CULVERT |
| PR SCRUFFY DOME | PR SCRUFFY DOME |

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| | | | |
| A | RC | WY | 03/2025 |
| Rev | Description | By | Date |
| | | | |
| Survey | LANDPRO | 03/22 | |
| Design | WY | 03/2025 | |
| Drawn | WY | 03/2025 | |
| Checked | RW/KH | 03/2025 | |

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Project

DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI DEVELOPMENTS LIMITED PARTNERSHIP

Title

PROPOSED STORMWATER PLAN - STAGE 7

| | | | |
|-------------|--|-----|----------|
| Project no. | 147007 | | |
| Scale | 1:1500 @ A3 | | |
| Cad file | 147007-M-C400 STAGE 6 - 7 STORMWATER.DWG | | |
| Drawing no. | C400-7-3 | Rev | A |

DATE: 4/02/25 FILE PATH: F:\Maven\PROJECTS\147007 RIVERHEAD FOREST\DWG\147007-M-C400 STAGE 6 - 7 STORMWATER.DWG