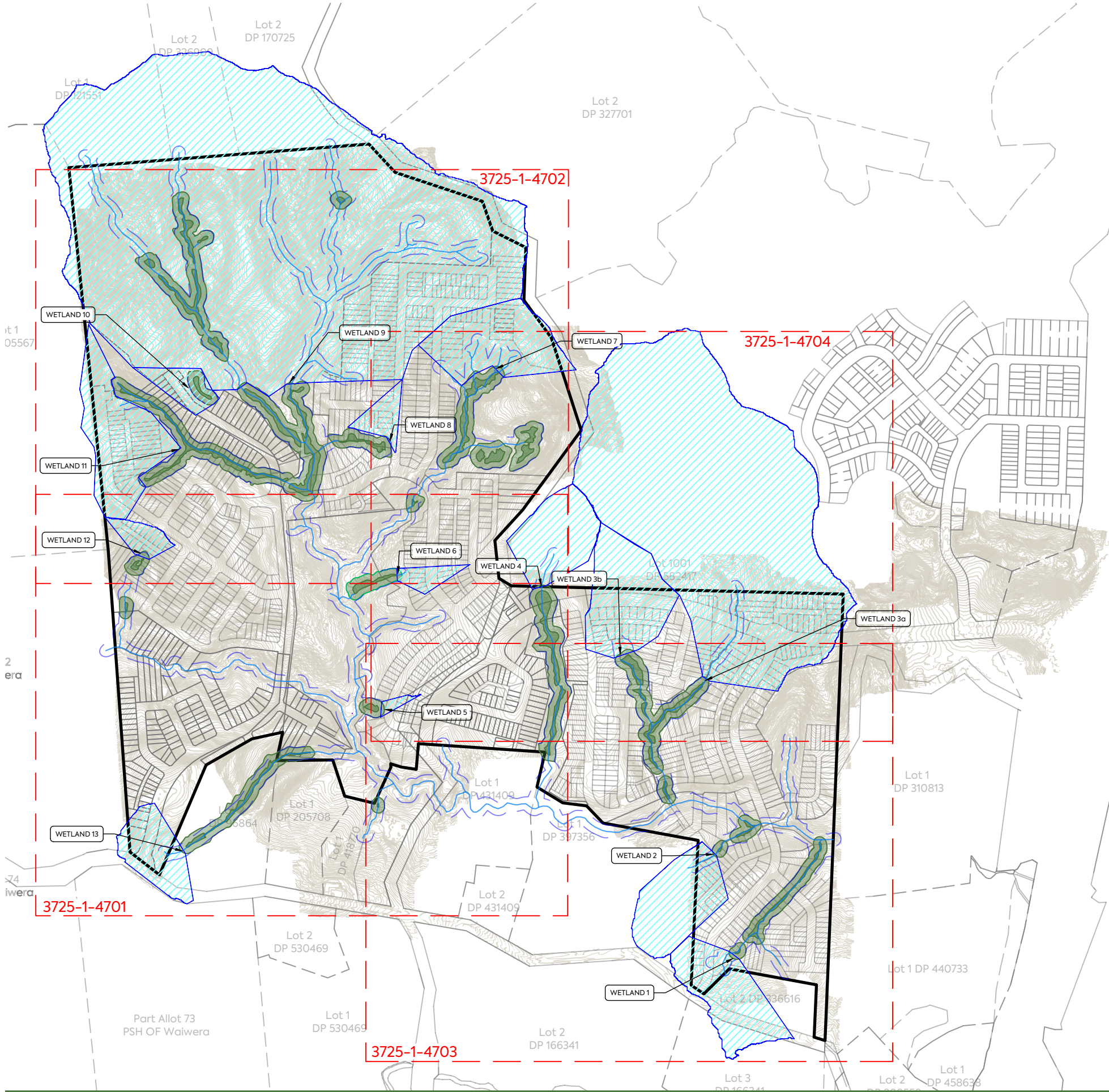




NOTES

- 1. DESIGN PEAK FLOW RATES WAS COMPUTATED BY ARC TP 108 GRAPHIC METHOD.
- 2. DESIGN RAINFALL DEPTH OF 155 mm WAS USED TO MODEL 10% AEP PEAK FLOW AT PRE DEVELOPMENT CONDITION WITHOUT CLIMATE FACTOR ADJUSTED.

LEGEND

- EXISTING ECOLOGICAL WETLAND & SETBACK
- EXISTING STREAM & SECTBACK
- RECEIVING CATCHMENT

Catchment Label	Catchment Area	Impervious (Combined)	Weighted CN	Q peak
	ha	%		m³/s
Wetland 1	2.1400	0%	74.0	0.381
Wetland 2	2.0500	0%	74.0	0.365
Wetland 3a	18.0300	0%	74.0	3.103
Wetland 3b	1.6970	0%	74.0	0.302
Wetland 4	1.8261	0%	74.0	0.325
Wetland 5	0.1010	0%	74.0	0.018
Wetland 6	0.3552	0%	74.0	0.063
Wetland 7	2.2761	0%	74.0	0.405
Wetland 8	0.4856	0%	74.0	0.086
Wetland 9	35.5900	0%	74.0	6.108
Wetland 10	0.6420	0%	74.0	0.114
Wetland 11	2.6796	0%	74.0	0.477
Wetland 12	0.4459	0%	74.0	0.079
Wetland 13	1.3268	0%	74.0	0.236



WETLAND 12

WETLAND 6

WETLAND 4

WETLAN

WETLAND 5

WETLAND 13

Part Allot 342
PSH OF Waiwera

Lot 1
DP 205708

Lot 2
DP 36864

Lot 1
DP 418770

Lot 1
DP 431409

Lot 2
DP 431409

LEGEND

- EXISTING ECOLOGICAL WETLAND & SETBACK
- EXISTING STREAM & SECTBACK
- RECEIVING CATCHMENT



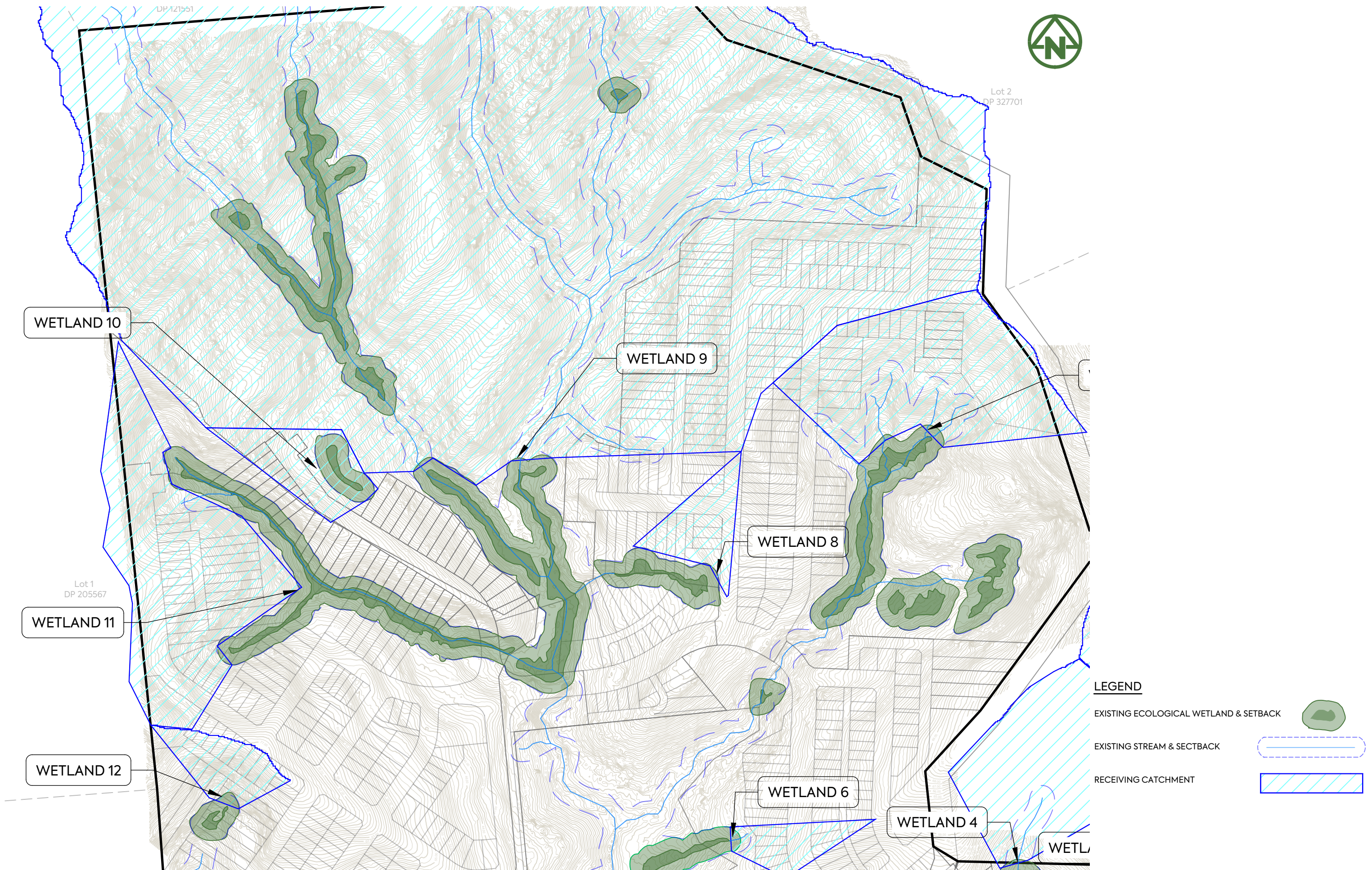
VINEWAY LTD

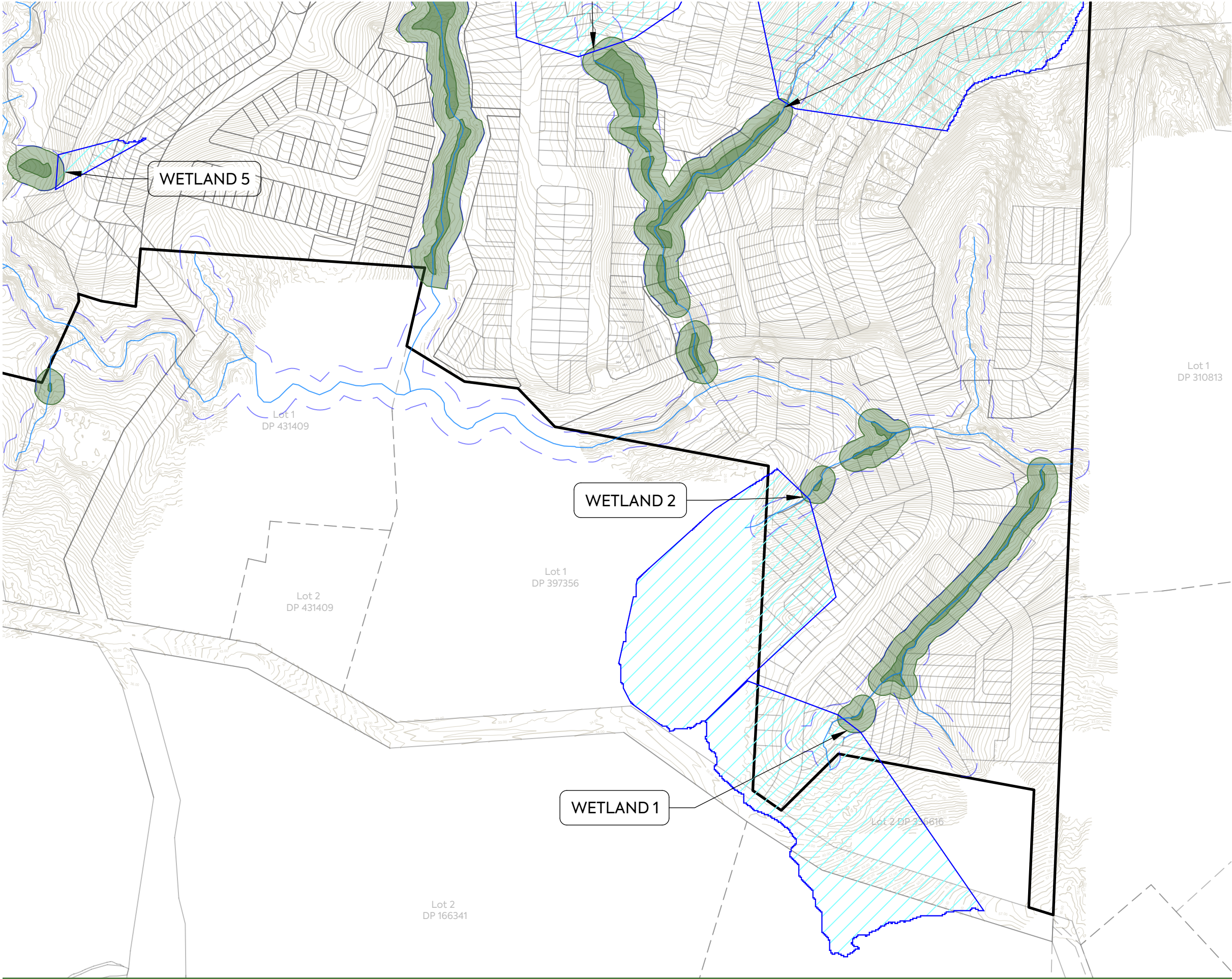
DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

STORMWATER
WETLAND
PREDEVELOPMENT
CATCHMENTS

PURPOSE OF ISSUE:	
FOR CONSENT	
SCALE:	
1:3000 @ A3	
DO NOT SCALE	
DRAWING NO:	REV:
3725-1-4701	A

A	FIRST ISSUE	DK	-	-	-
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE

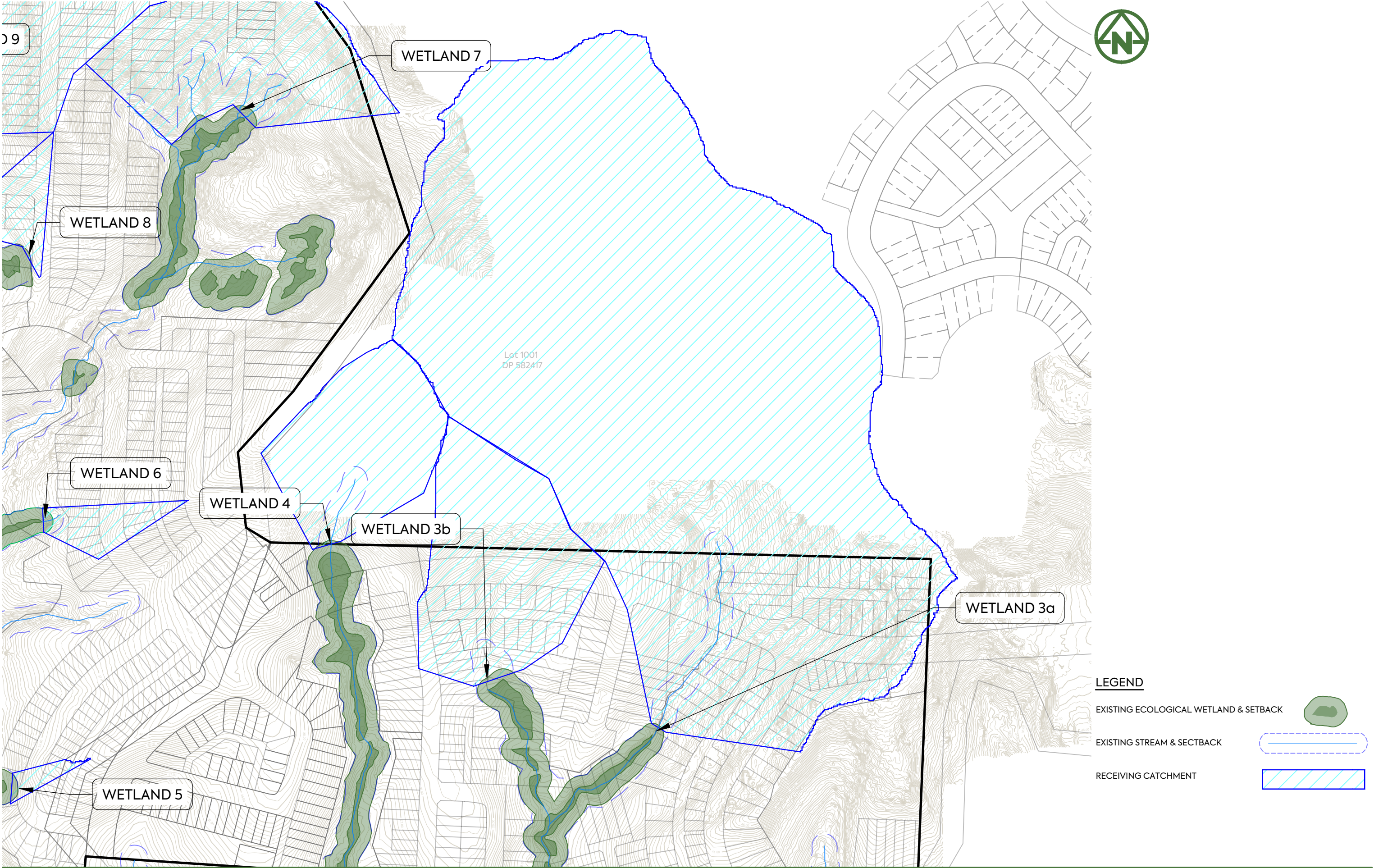




LEGEND

- EXISTING ECOLOGICAL WETLAND & SETBACK
- EXISTING STREAM & SETBACK
- RECEIVING CATCHMENT

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NOTES

- DESIGN PEAK FLOW RATES WAS COMPUTED BY ARC TP 108 GRAPHIC METHOD.
- DESIGN RAINFALL DEPTH OF 181 mm WAS USED TO MODEL 10% AEP PEAK FLOW AT POST DEVELOPMENT CONDITION (2.1° CLIMATE FACTOR @17% INCLUDED).

LEGEND

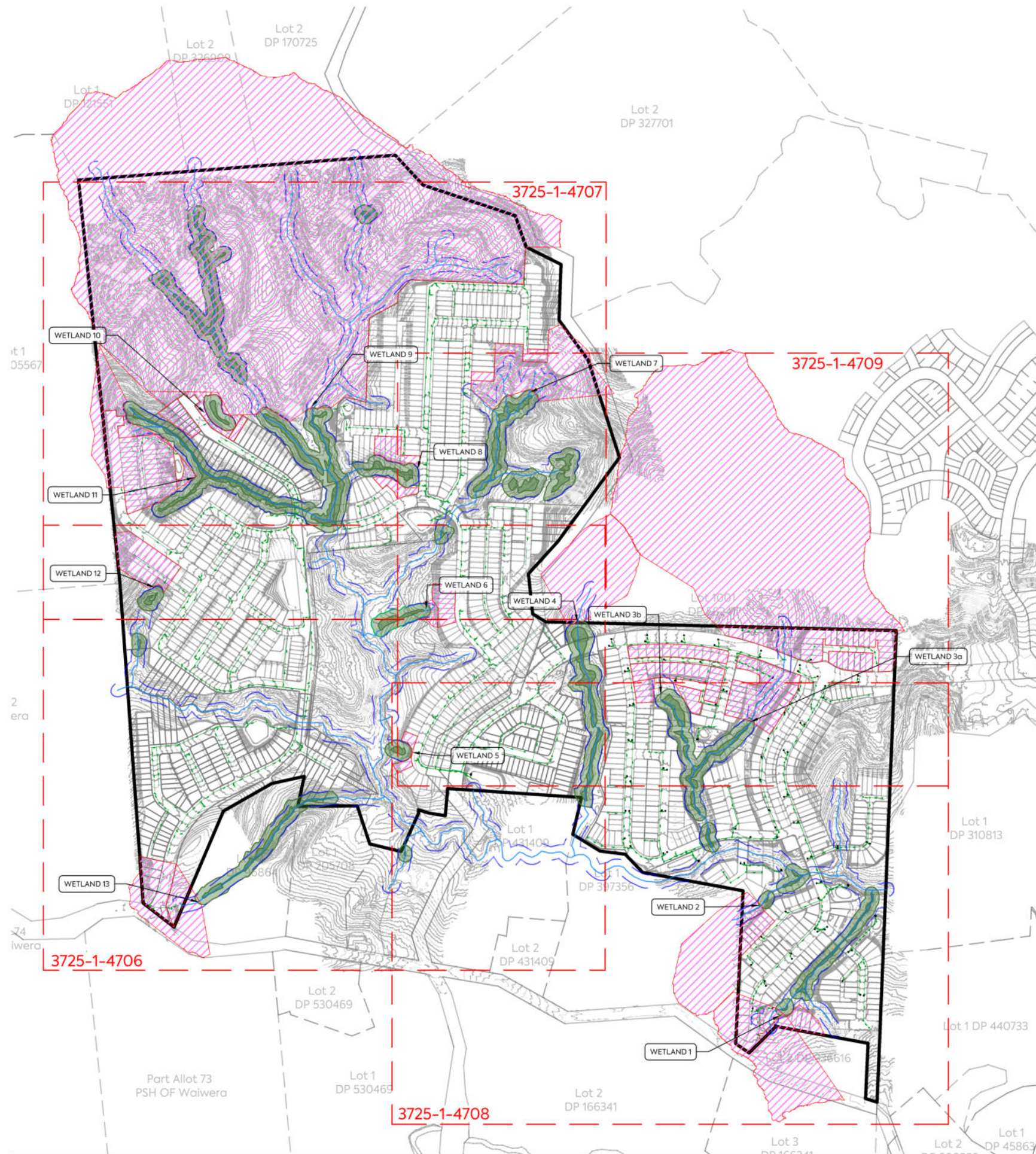
EXISTING ECOLOGICAL WETLAND & SETBACK



EXISTING STREAM & SECTBACK



RECEIVING CATCHMENT



Catchment Label	Catchment Area <i>ha</i>	Impervious (Combined) <i>%</i>	Weighted CN	Post Q peak <i>m³/s</i>	Q Difference (Post - Pre) <i>m³/s</i> <i>%</i>		Description / Comment
Wetland 1	2.3070	20%	78.9	0.580	0.199	52%	ok
Wetland 2	1.8110	8%	75.8	0.430	0.065	18%	ok
Wetland 3a	16.3555	9%	76.3	3.788	0.685	22%	ok
Wetland 3b	1.0850	70%	90.8	0.314	0.012	4%	ok
Wetland 4	1.8261	0%	74.0	0.408	0.083	26%	ok
Wetland 5	0.0877	70%	90.8	0.025	0.007	41%	ok
Wetland 6	1.0000	55%	87.2	0.077	0.014	22%	ok
Wetland 7	1.7415	5%	75.3	0.414	0.009	2%	ok
Wetland 8	0.3190	70%	90.8	0.092	0.006	7%	ok
Wetland 9	30.9000	0%	74.0	6.691	0.583	10%	ok
Wetland 10	0.4751	35%	82.5	0.125	0.010	9%	ok
Wetland 11	2.0379	44%	84.5	0.535	0.058	12%	ok
Wetland 12	0.6105	70%	90.8	0.177	0.097	123%	ok
Wetland 13	1.3010	23%	79.6	0.327	0.091	39%	ok



VINEWAY LTD

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

STORMWATER
WETLAND
POST DEVELOPMENT
CATCHMENTS

PURPOSE OF ISSUE:
FOR CONSENT

SCALE:
1:7500 @ A3
DO NOT SCALE

DRAWING NO:
3725-1-4705

REV:
A

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
A	FIRST ISSUE	DK			



WETLAND 12

WETLAND 6

WETLAND 4

WETLAN

WETLAND 5

WETLAND 13

Part Allot 342
PSH OF Waiwera

Lot 1
DP 205708

Lot 2
DP 36864

Lot 1
DP 418770

Lot 1
DP 431409

Lot 2
DP 431409

LEGEND

EXISTING ECOLOGICAL WETLAND & SETBACK

EXISTING STREAM & SECTBACK

RECEIVING CATCHMENT



VINEWAY LTD

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

STORMWATER
WETLAND
POST DEVELOPMENT
CATCHMENTS

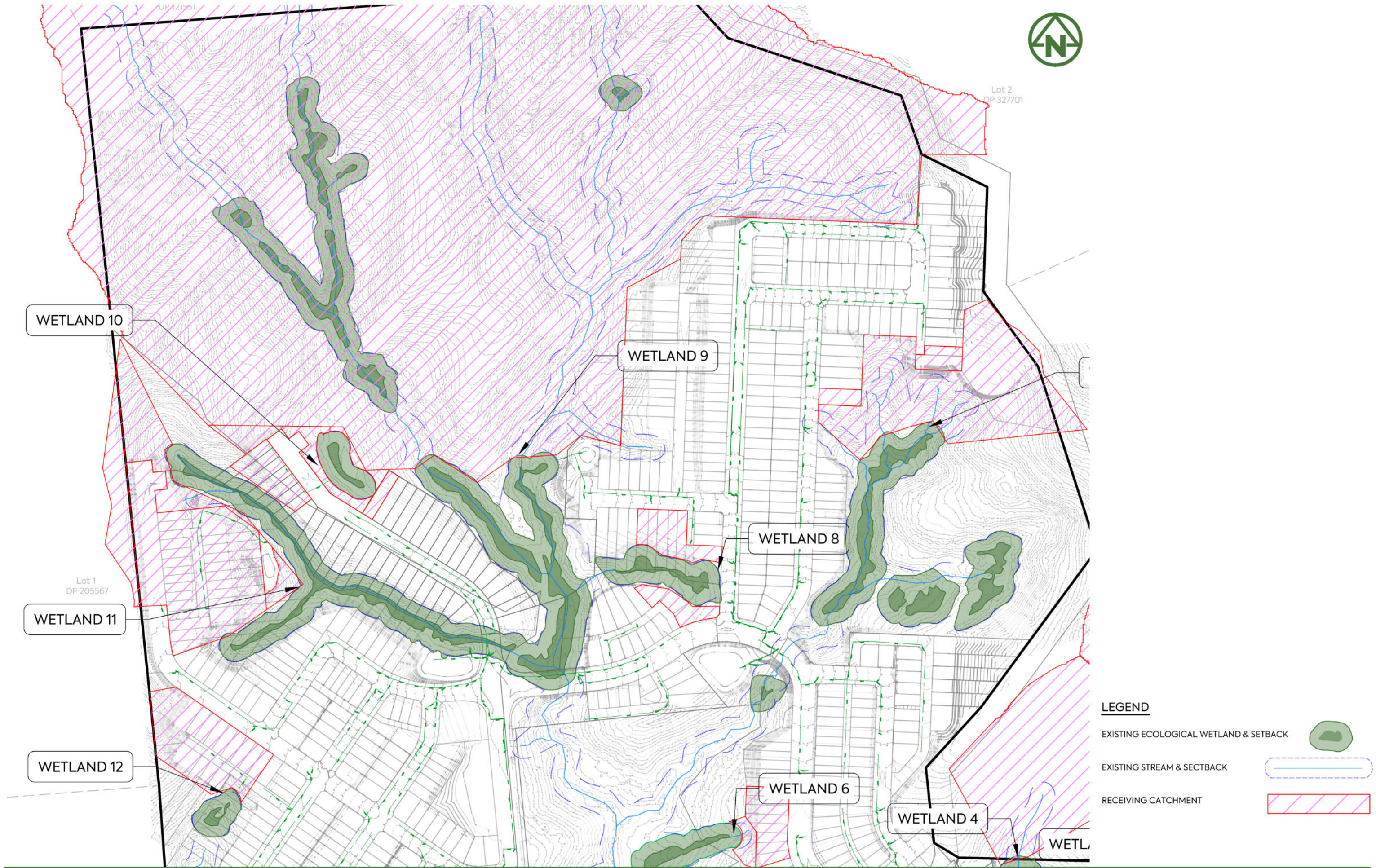
PURPOSE OF ISSUE:
FOR CONSENT

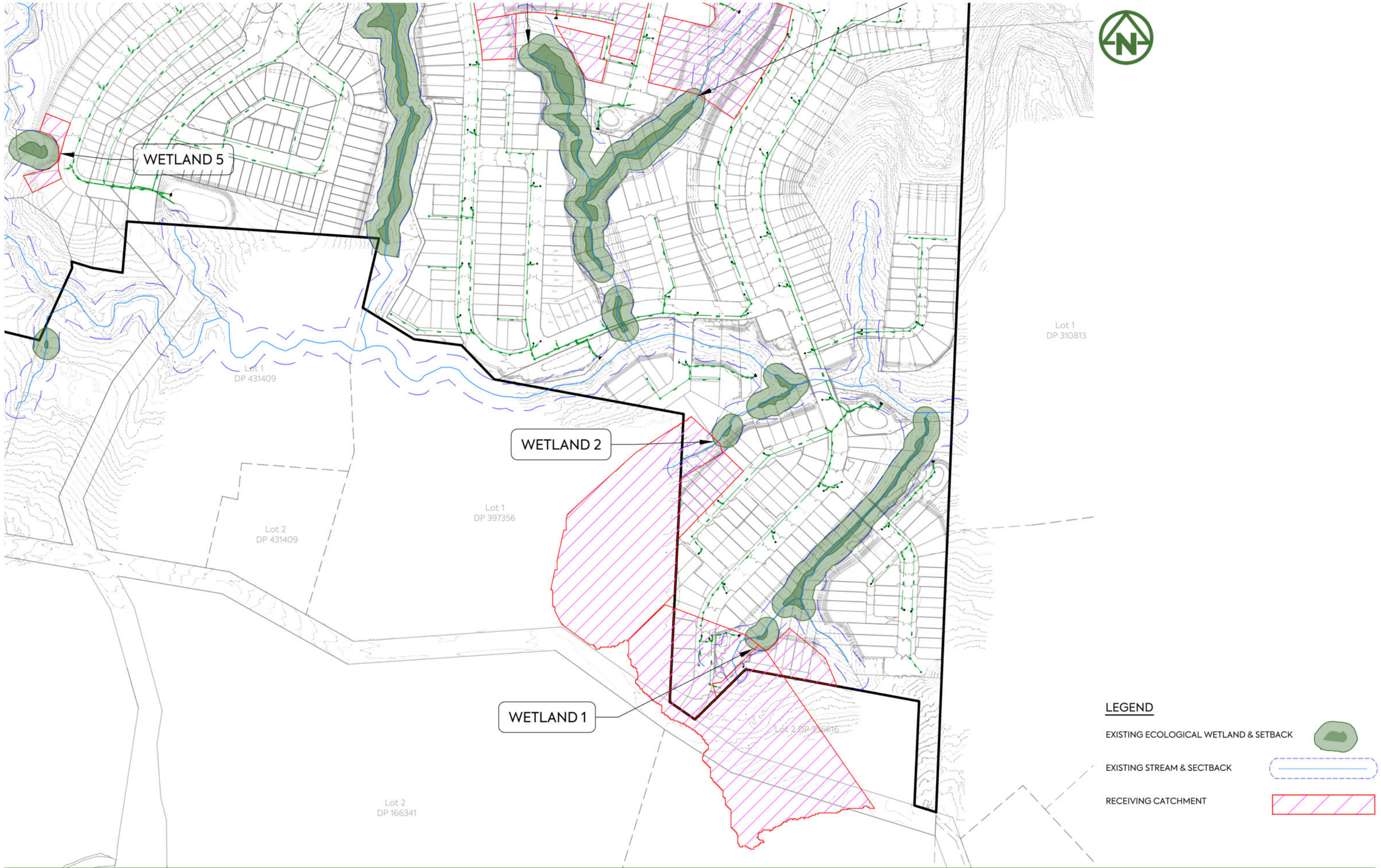
SCALE:
1:3000 @ A3
DO NOT SCALE

DRAWING NO:
3725-1-4706

REV:
A

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
A	FIRST ISSUE				





LEGEND

EXISTING ECOLOGICAL WETLAND & SETBACK

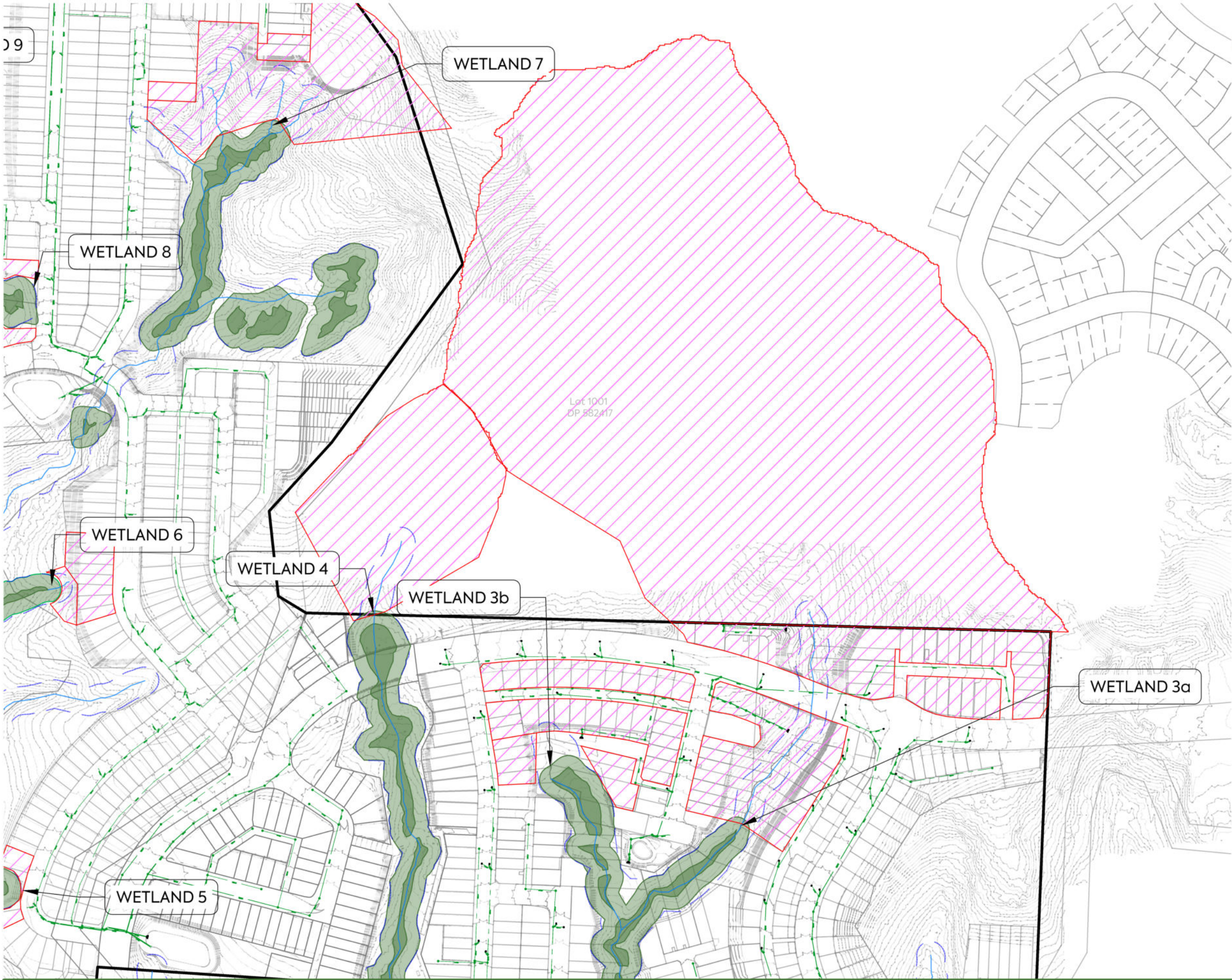


EXISTING STREAM & SECTBACK



RECEIVING CATCHMENT





LEGEND

EXISTING ECOLOGICAL WETLAND & SETBACK



EXISTING STREAM & SECTBACK



RECEIVING CATCHMENT



CLIENT:

VINEWAY LTD

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

TITLE:

STORMWATER
WETLAND
POST DEVELOPMENT
CATCHMENTS

PURPOSE OF ISSUE:

FOR CONSENT

SCALE:
1:3000 @ A3

DO NOT SCALE

DRAWING NO:

3725-1-4709

REV:

A

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
A	FIRST ISSUE	DK			

PLOT DATE: 2025-12-17 13:01:19 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE

C:\1205\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\4700.DWG