

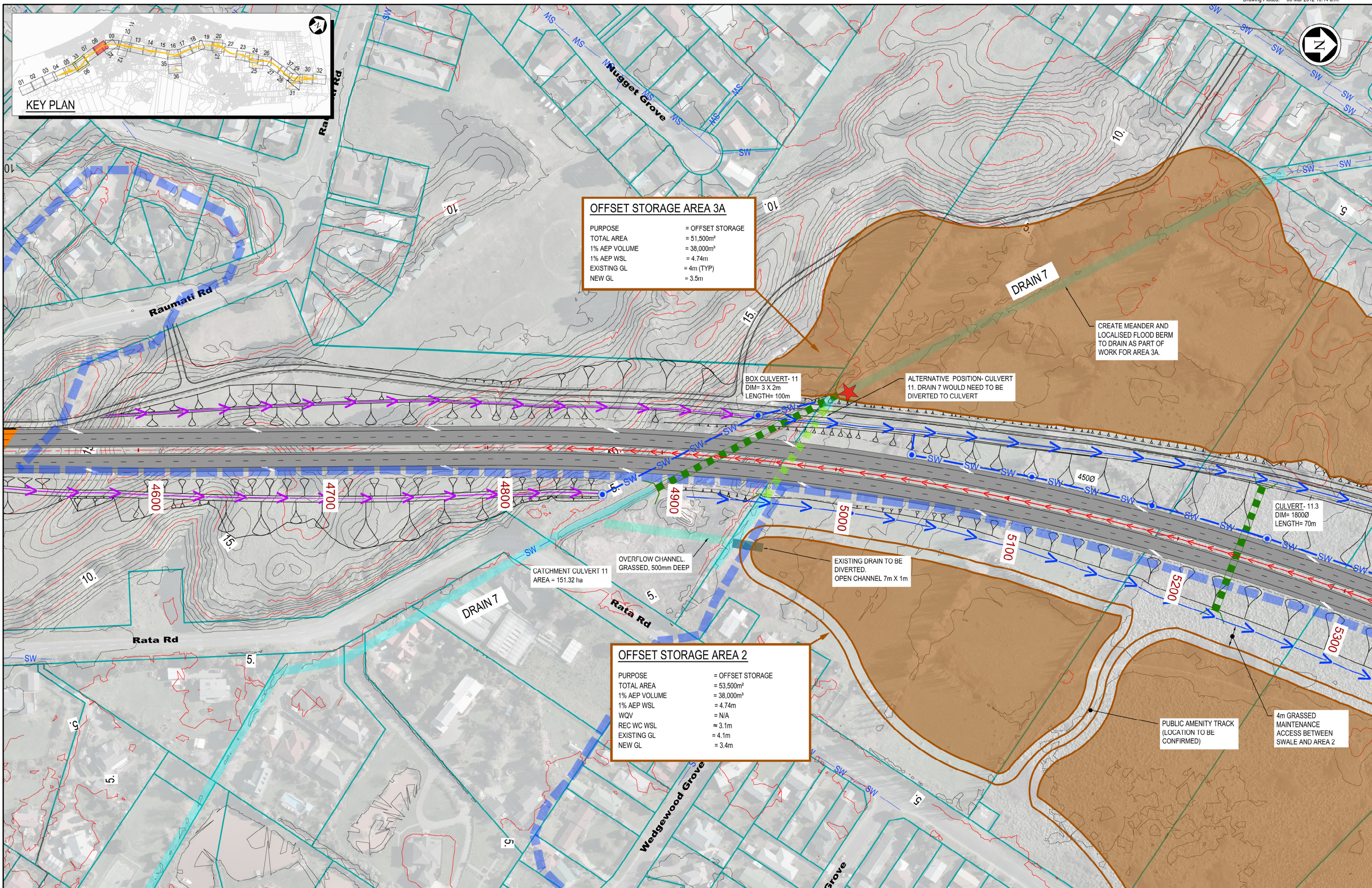


**OFFSET STORAGE AREA 3A**

PURPOSE	= OFFSET STORAGE
TOTAL AREA	= 51,500m <sup>2</sup>
1% AEP VOLUME	= 38,000m <sup>3</sup>
1% AEP WSL	= 4.74m
EXISTING GL	= 4m (TYP)
NEW GL	= 3.5m

**OFFSET STORAGE AREA 2**

PURPOSE	= OFFSET STORAGE
TOTAL AREA	= 53,500m <sup>2</sup>
1% AEP VOLUME	= 38,000m <sup>3</sup>
1% AEP WSL	= 4.74m
WQV	= N/A
REC WC WSL	= 3.1m
EXISTING GL	= 4.1m
NEW GL	= 3.4m



- NOTES:
- REFER DRAWING CV-SW-100 FOR INDEX SHEET AND STORMWATER LEGEND
  - EXISTING DRAINAGE FROM KCDC GIS, GWRC GIS, NZTA RECORDS AND KIWI RAIL RECORDS.
  - GL = GROUND LEVEL  
WQV = WATER QUALITY VOLUME  
WSL = WATER SURFACE LEVEL  
IL = INVERT LEVEL  
REC WC WSL = RECEIVING WATER COURSE WATER SURFACE LEVEL.

Original Scale (A3)  
1:2000

1	AEE LODGEMENT	NRN	15.03.12
Revision:	Amendment	Approved:	Date:

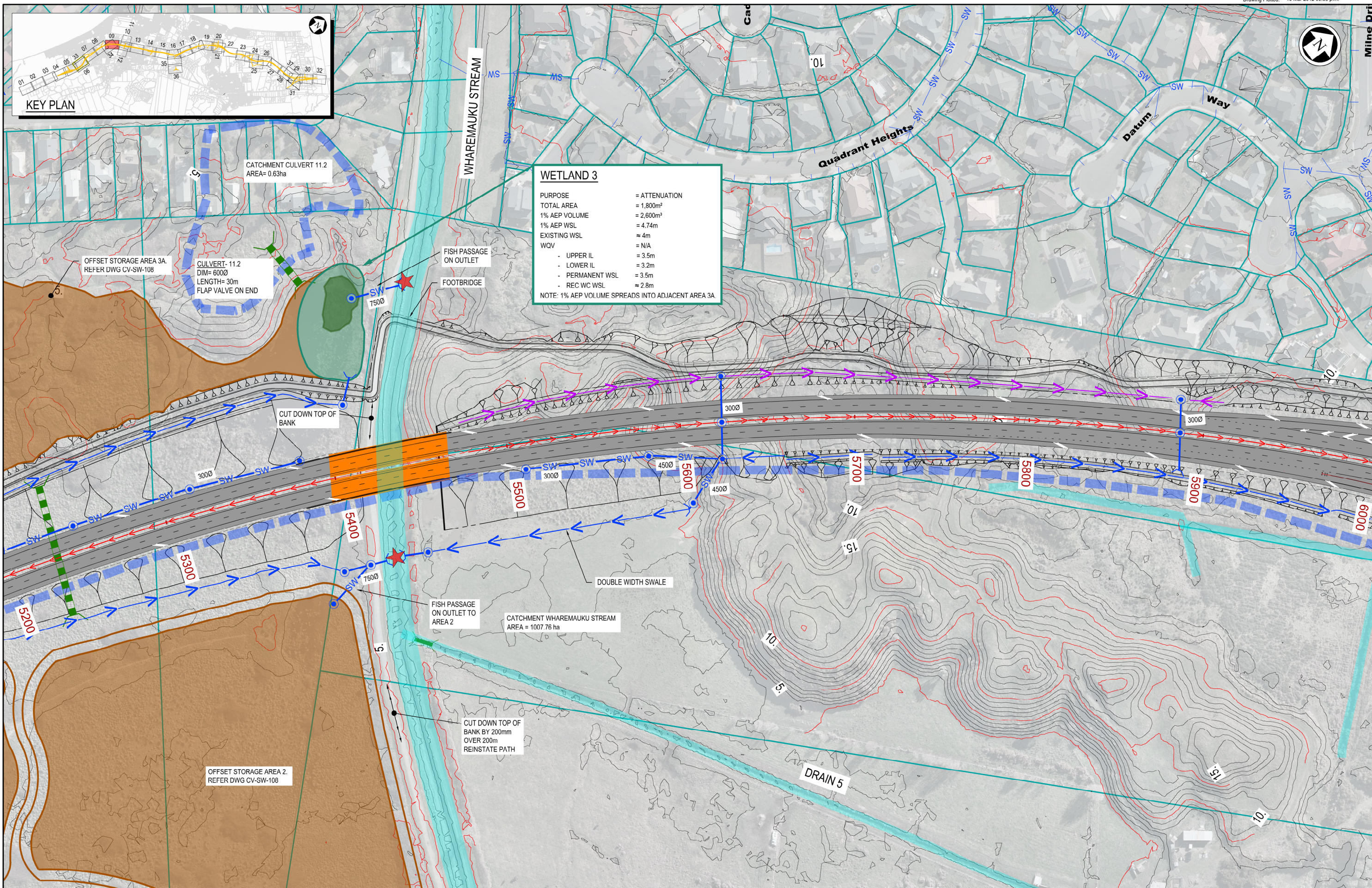


**MACKAYS TO PEKA PEKA EXPRESSWAY**

DRAINAGE LAYOUT  
SHEET 8 OF 37

Status:	FOR CONSENTING
Document ID:	M2PP-AEE-DWG
Drawing No:	CV-SW-108
Rev:	1





**NOTES:**

- REFER DRAWING CV-SW-100 FOR INDEX SHEET AND STORMWATER LEGEND
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Original Scale (A3)  
1:2000

1	AEE LODGEMENT	NRN	15.03.12
Revision:	Amendment	Approved:	Date:



**Project:** MACKAYS TO PEKA PEKA EXPRESSWAY

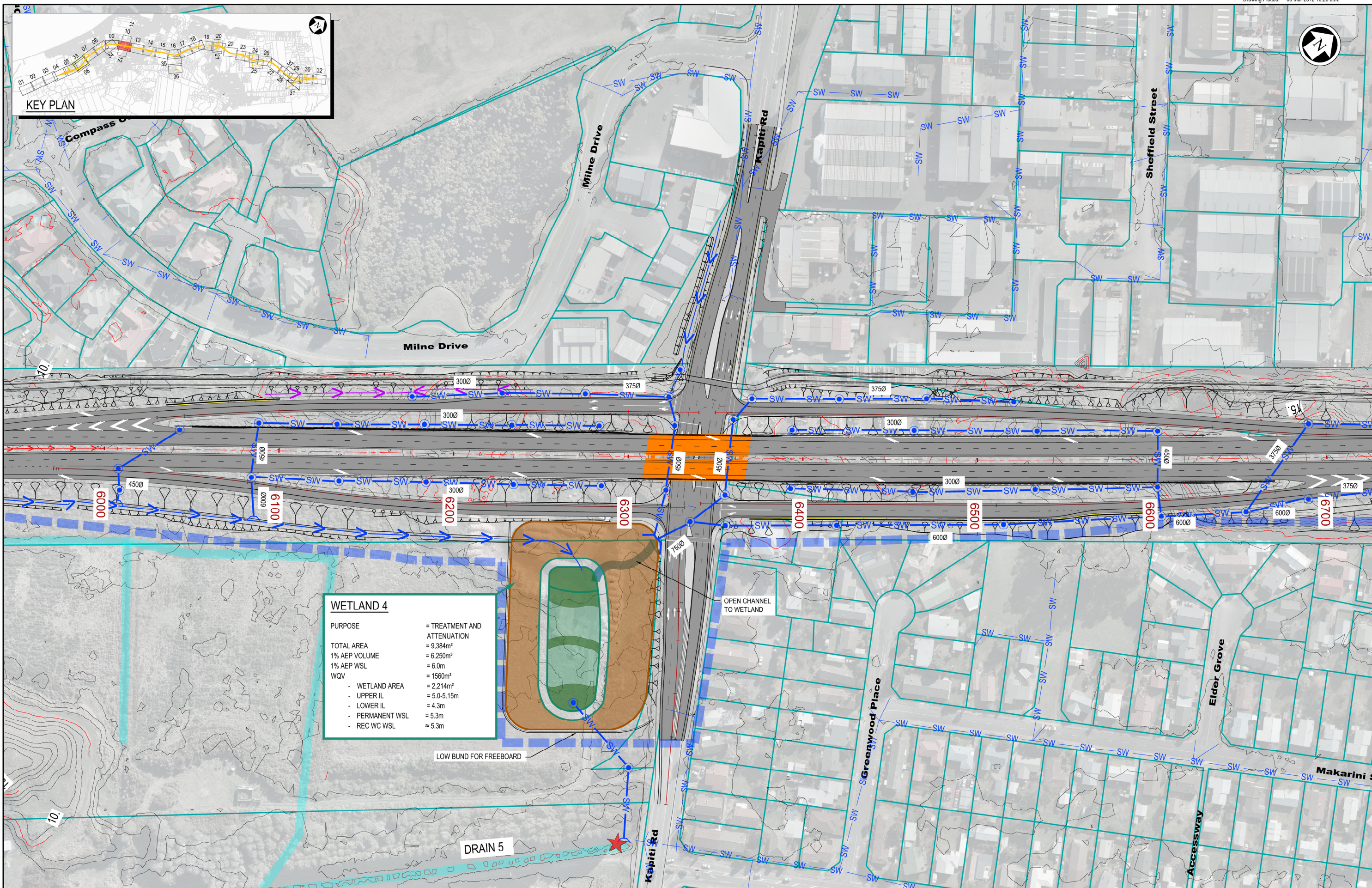
**Title:** DRAINAGE LAYOUT SHEET 9 OF 37

Status: FOR CONSENTING

Document ID: M2PP-AEE-DWG Rev: 1

Drawing No: CV-SW-109

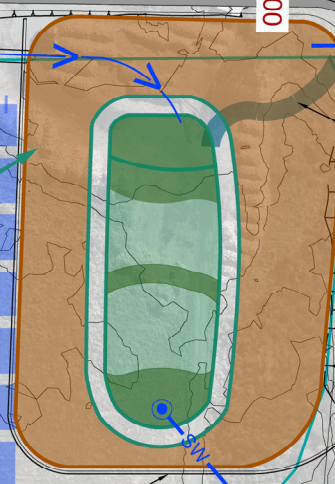




**KEY PLAN**



WETLAND 4	
PURPOSE	= TREATMENT AND ATTENUATION
TOTAL AREA	= 9,384m <sup>2</sup>
1% AEP VOLUME	= 6,250m <sup>3</sup>
1% AEP WSL	= 6.0m
WQV	= 1560m <sup>3</sup>
- WETLAND AREA	= 2,214m <sup>2</sup>
- UPPER IL	= 5.0-5.15m
- LOWER IL	= 4.3m
- PERMANENT WSL	= 5.3m
- REC WC WSL	≈ 5.3m



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1:2000

1	AEE LODGEMENT	NRN	15.03.12
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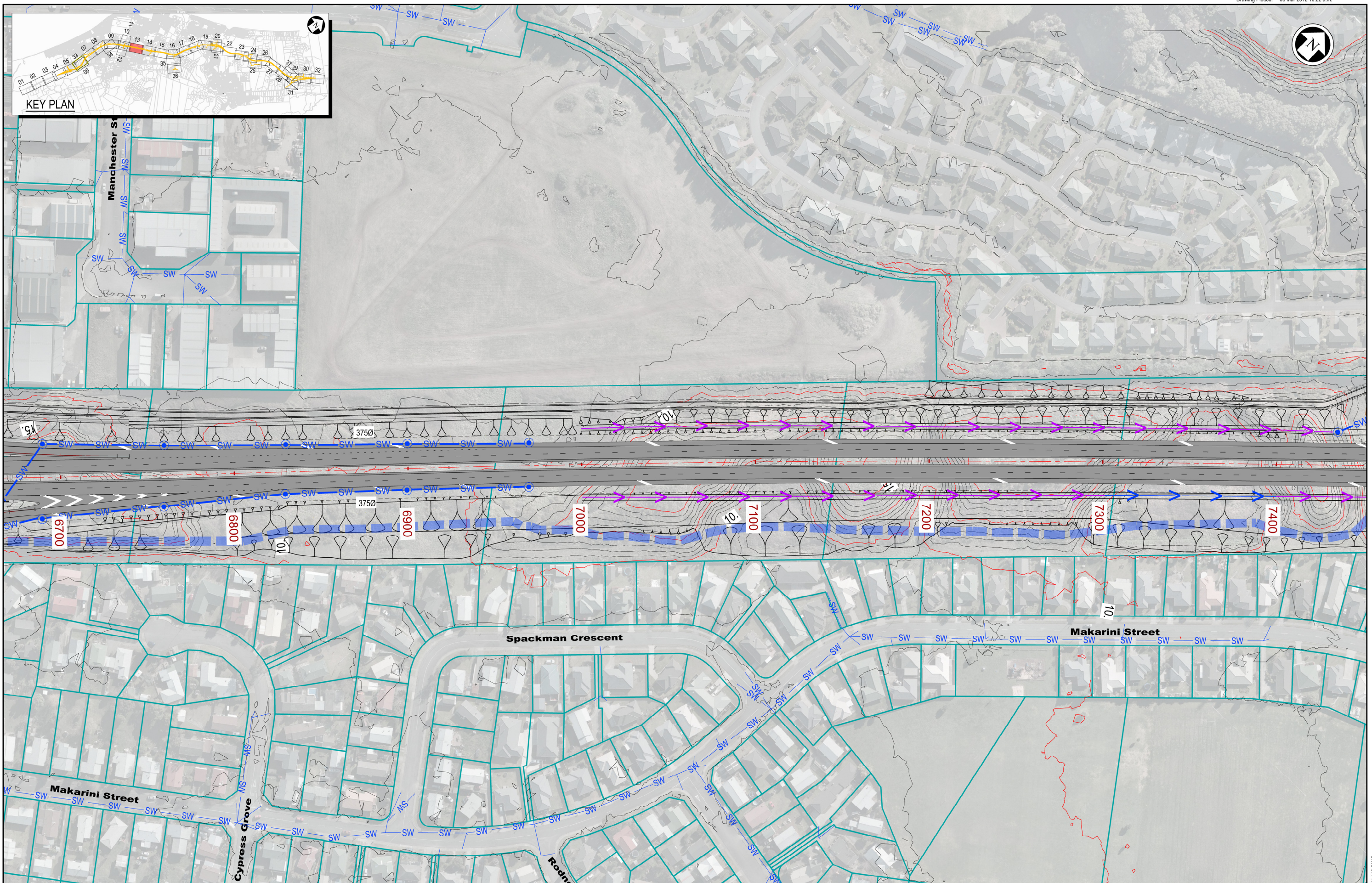


**MACKAYS TO PEKA PEKA EXPRESSWAY**

DRAINAGE LAYOUT  
SHEET 10 OF 37

Status:	FOR CONSENTING
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Rev:	1





NOTES:  
 1. REFER DRAWING CV-SW-100 FOR INDEX SHEET AND STORMWATER LEGEND  
 2. EXISTING DRAINAGE FROM KCDC GIS, GWRC GIS, NZTA RECORDS AND KIWI RAIL RECORDS.

Original Scale (A3)  
1:2000

1	AEE LODGEMENT	NRN	15.03.12
Revision:	Amendment	Approved:	Date:



Project: **MACKAYS TO PEKA PEKA EXPRESSWAY**

Title: **DRAINAGE LAYOUT SHEET 13 OF 37**

Status:	FOR CONSENTING
Document ID:	M2PP-AEE-DWG
Rev:	
Drawing No:	<b>CV-SW-113</b>
	<b>1</b>