



GENERAL NOTES

1. ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF TRAFFIC SIGNS AND MARKINGS (MOTSAM) PART 1: TRAFFIC SIGNS AND TRAFFIC CONTROL DEVICES (TCD) MANUAL.
2. ALL SIGN SUPPORTS AND FOUNDATION REQUIREMENTS TO BE IN ACCORDANCE WITH TNZ P/24:2008 AND RSMA COMPLIANCE STANDARD FOR TRAFFIC SIGNS UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
3. POSITIONS OF NEW SIGNS ARE INDICATIVE ONLY AND TO BE CONFIRMED ON SITE BY THE ENGINEER PRIOR TO INSTALLATION TO AVOID CONFLICT AND OBSTRUCTION BY OTHER ROADSIDE FURNITURE AND VEGETATION. AT THE INSTRUCTION BY THE ENGINEER, VEGETATION MAY REQUIRE TRIMMING.
4. ALL EDGE MARKER POST TO BE INSTALLED IN ACCORDANCE WITH MOTSAM PART 2, SECTION 5.05. WHERE DRIVEWAYS, ACCESS OR SIDE ROAD LOCATIONS COINCIDES WITH EDGE MARKER POST PLACEMENT, INSTALL EDGE MARKER ON EITHER SIDE OF THESE DRIVEWAYS, ACCESSES AND SIDE ROADS. AT THE INSTRUCTION OF THE ENGINEER.
5. WHITE BI-DIRECTIONAL RRPMS TO BE INSTALLED ON CENTRE LINE AT 20m SPACING AS PER MOTSAM PART 2, SECTION 4.06.06.
6. RED MONO-DIRECTIONAL RRPMS TO BE INSTALLED ON THE OUTSIDE OF THE BEND AT 20m SPACING AS PER MOTSAM PART 2, SECTION 4.06.06.
7. RED MONO-DIRECTIONAL RRPMS TO COMMENCE AND TERMINATE AT THE TANGENT OF THE CURVE.
8. THE PROPOSED RRPMS SHOWN ON THE DRAWING ARE INDICATIVE ONLY AND SHALL COMPLY WITH NZTA P1/14 AND NZTA M/12 STANDARD SPECIFICATIONS.
9. ALL NEW MARKINGS ARE TO BE INSTALLED AS PER MOTSAM PART 2: MARKINGS. NEW MARKING TO TIE INTO EXISTING MARKINGS.
10. BLACKING OUT OF REDUNDANT ROAD MARKINGS ARE NOT PERMITTED.

DO NOT SCALE - IF IN DOUBT, ASK

250mm

190

180

170

160

150

140

130

120

110

100

90

80

70

60

50

40

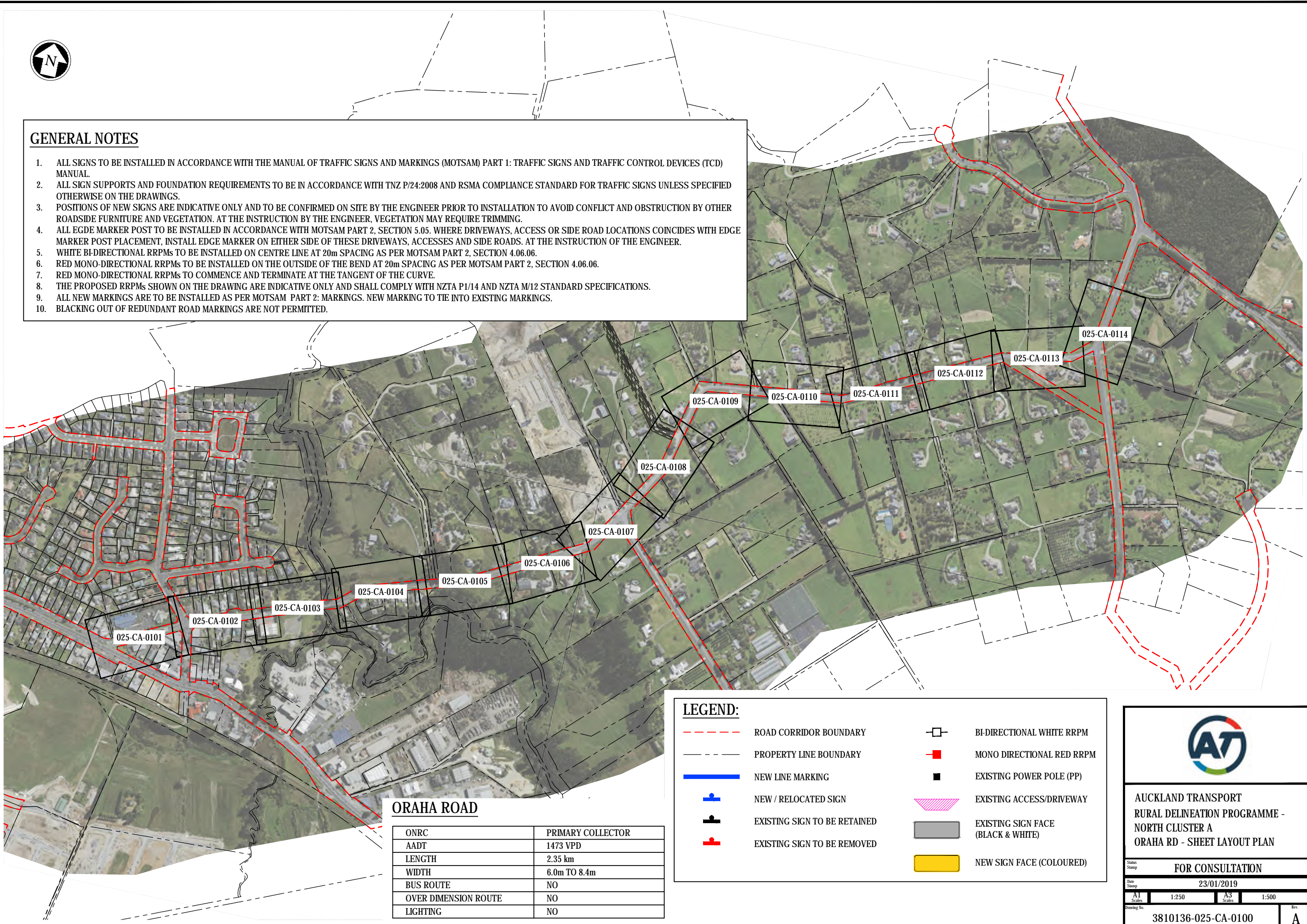
30

20

10

0

ORIGINAL SIZE A1




ORAHA ROAD

ONRC	PRIMARY COLLECTOR
AADT	1473 VPD
LENGTH	2.35 km
WIDTH	6.0m TO 8.4m
BUS ROUTE	NO
OVER DIMENSION ROUTE	NO
LIGHTING	NO

LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPMS
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPMS
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)



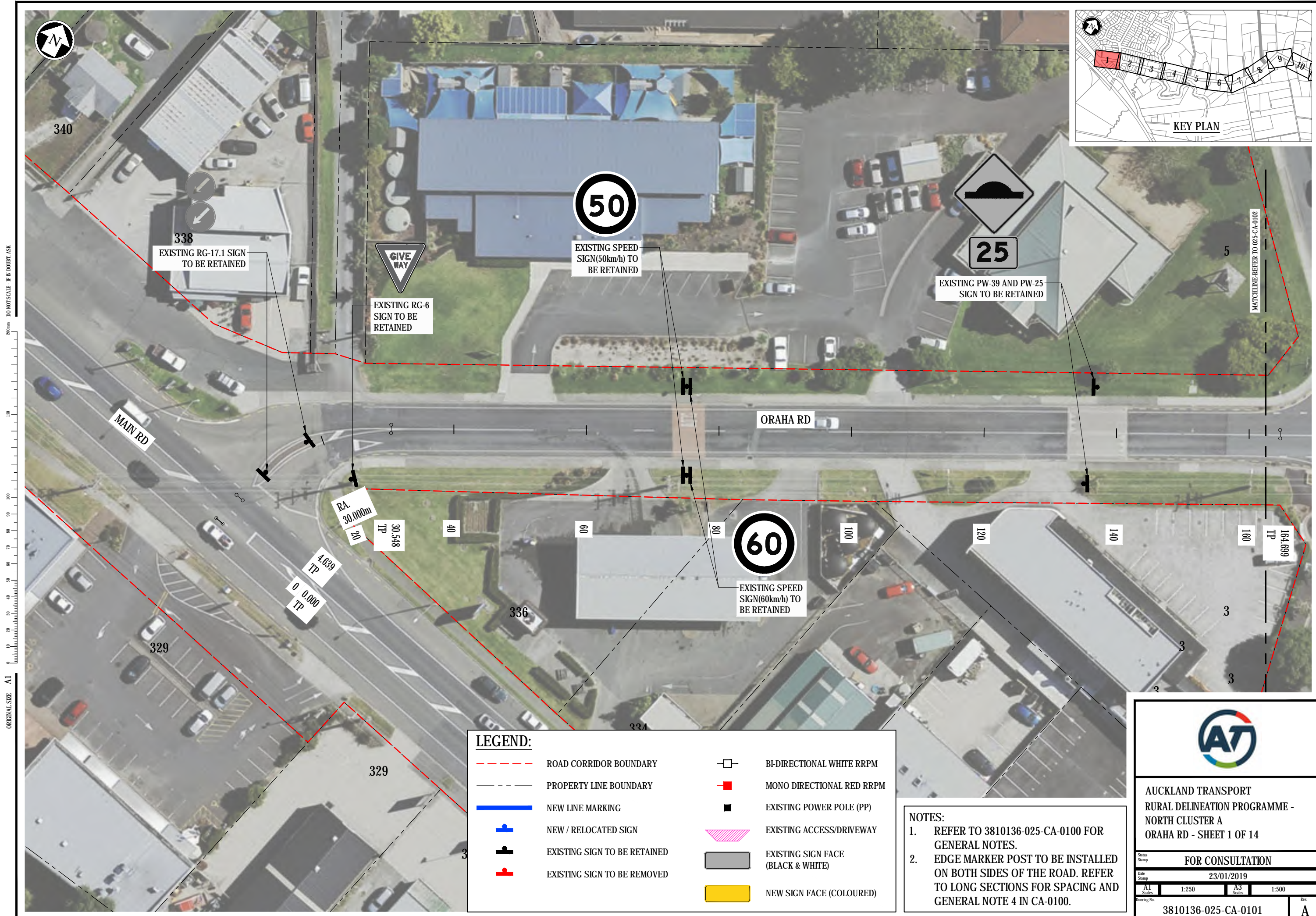
**AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET LAYOUT PLAN**

FOR CONSULTATION

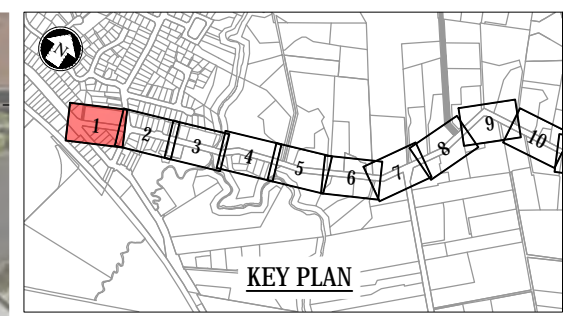
Date Stamp: 23/01/2019

A1 Scales: 1:250 A3 Scales: 1:500

Drawing No. 3810136-025-CA-0100 Rev. A



DO NOT SCALE - IF IN DOUBT, ASK
200mm
100
50
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200
ORIGINAL SIZE A1




LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



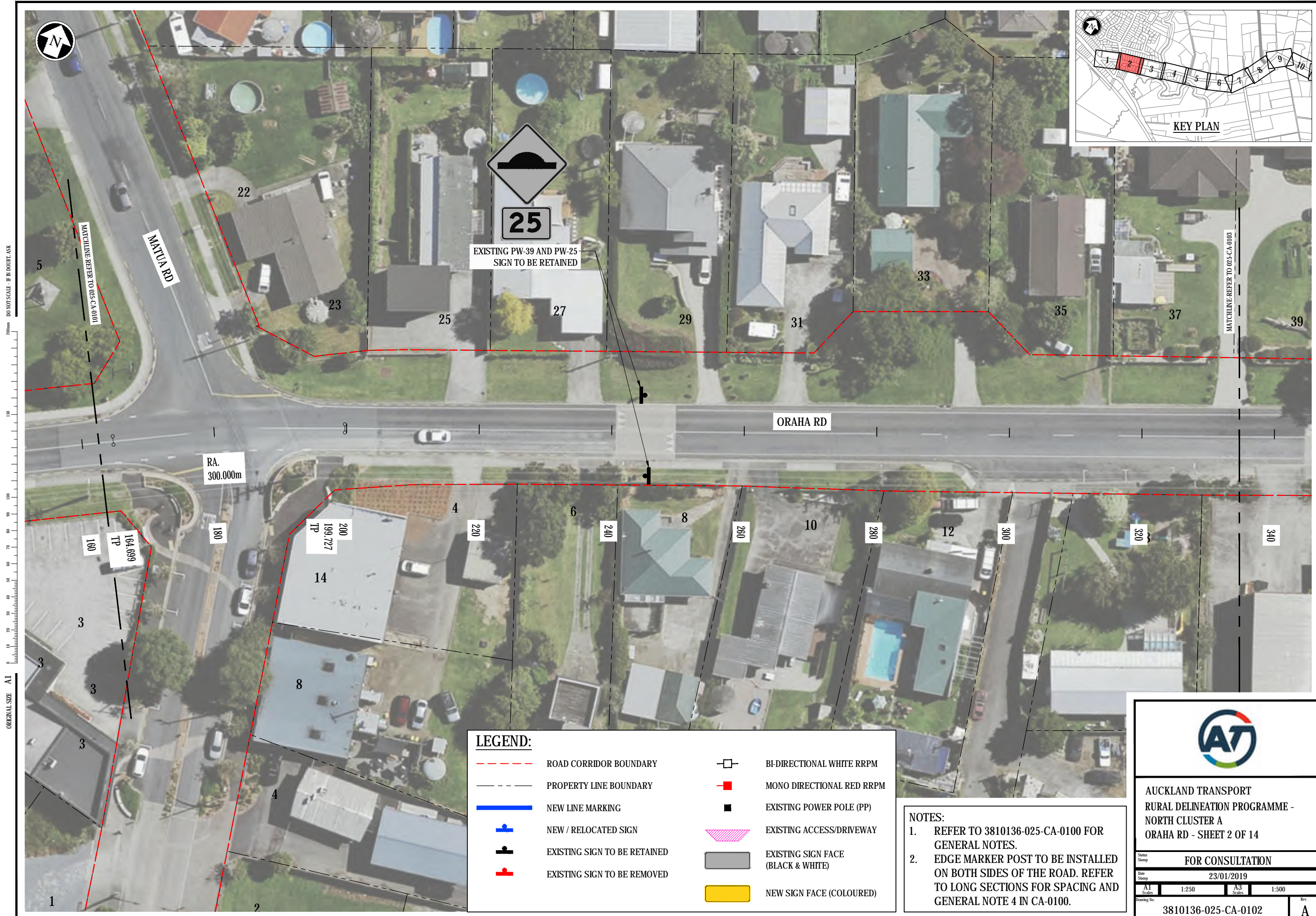
**AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 1 OF 14**

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250	A3 Scales: 1:500
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Drawing No. 3810136-025-CA-0101 Rev. A




LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



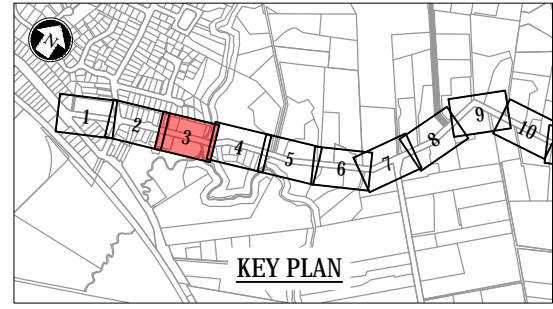
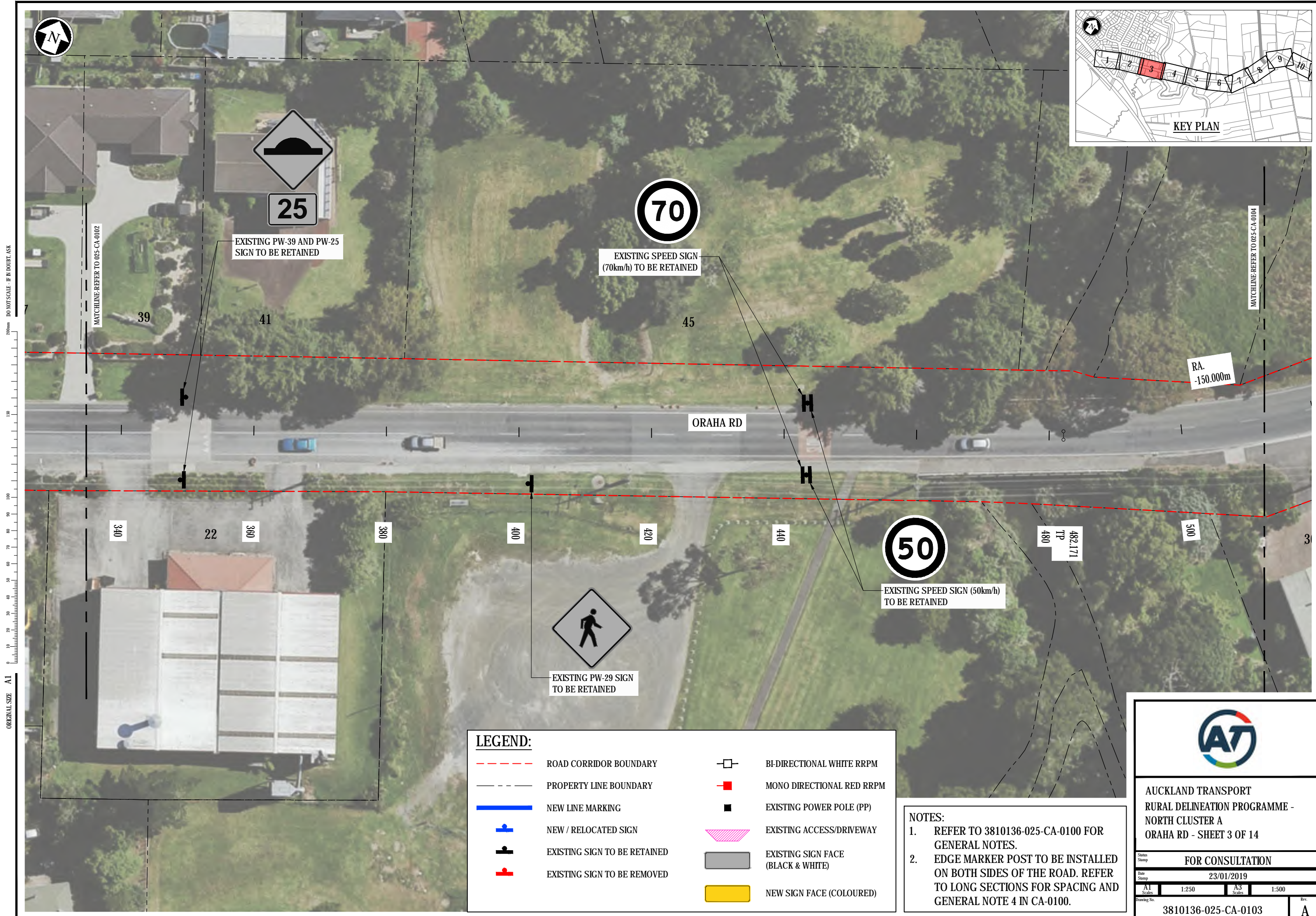
**AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 2 OF 14**

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250	A3 Scales: 1:500
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Drawing No. 3810136-025-CA-0102 Rev. A




DO NOT SCALE - IF IN DOUBT, ASK
 200mm
 150
 100
 90
 80
 70
 60
 50
 40
 30
 20
 10
 0
 ORIGINAL SIZE - A1

LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.

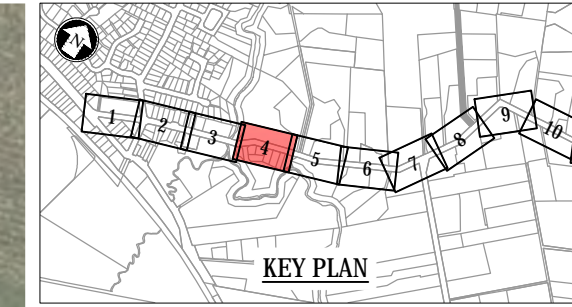


AUCKLAND TRANSPORT
 RURAL DELINEATION PROGRAMME -
 NORTH CLUSTER A
 ORAHA RD - SHEET 3 OF 14

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250	A3 Scales: 1:500
Drawing No. 3810136-025-CA-0103	
Rev. A	



NEW PW-67 SIGN
SIZE: 750mm x 900mm

RA.
150.000m

CURVE CATEGORY 2
REFER TO LONG SECTION FOR OPERATING SPEED
(NOTE: PERMANENT WARNINGS SIGNS ARE ONLY
REQUIRED FOR EAST BOUNDS APPROACH BASED
ON VERTICAL ALIGNMENT. SOUTH APPROACH HAS
GOOD VISIBILITY OF CURVE)

LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRP
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRP
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 4 OF 14

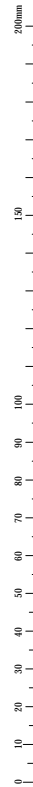
FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250 A3 Scales: 1:500

Drawing No. 3810136-025-CA-0104 Rev. A

ORIGINAL SIZE - A1
DO NOT SCALE - IF IN DOUBT, ASK



63

ORAHA RD

30

TP 539,963

TP 543,327

TP 606,963

TP 620

TP 640

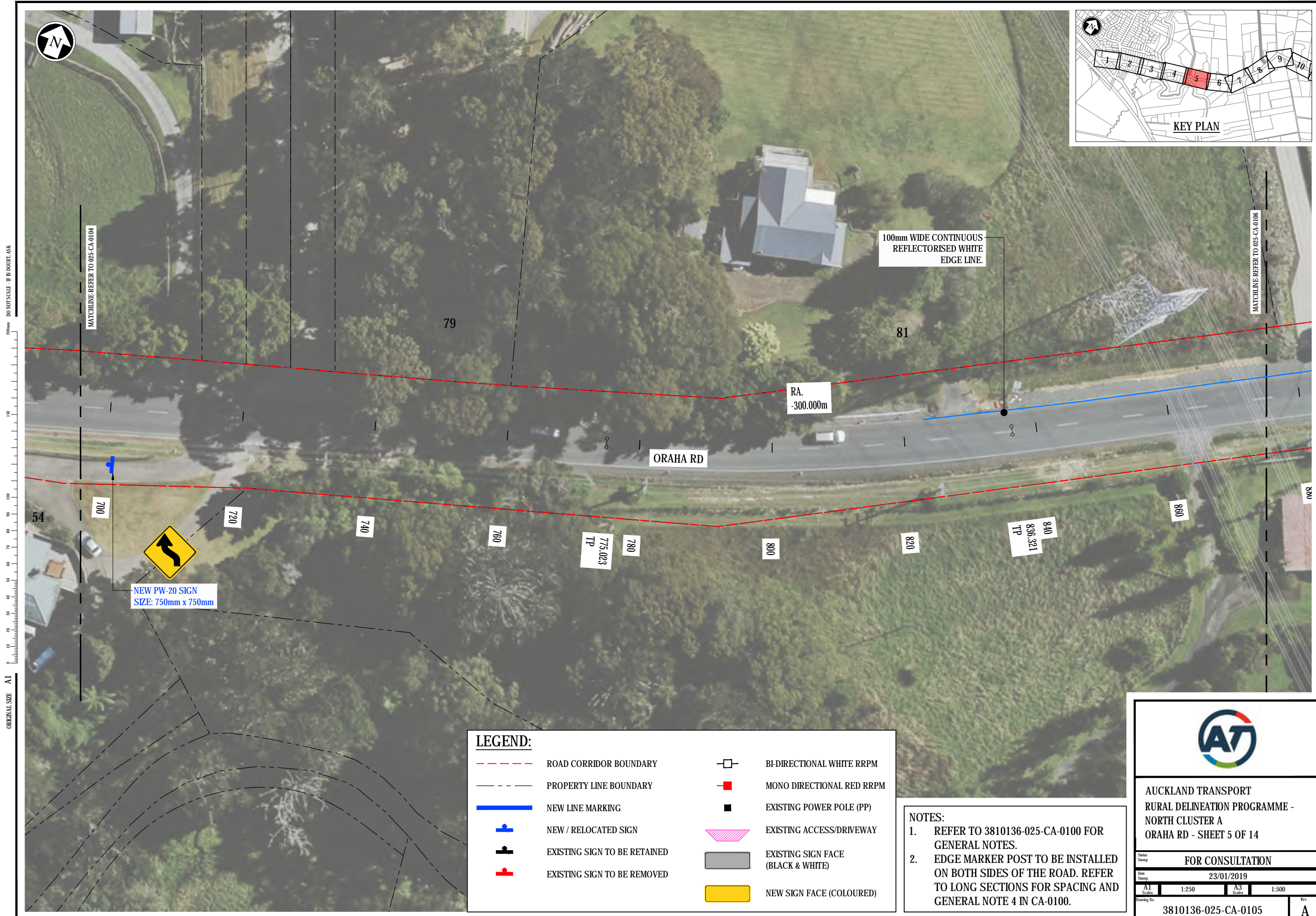
TP 660

TP 680

TP 700

MATCHLINE: REFER TO 025-CA-0105

MATCHLINE: REFER TO 025-CA-0105




LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.

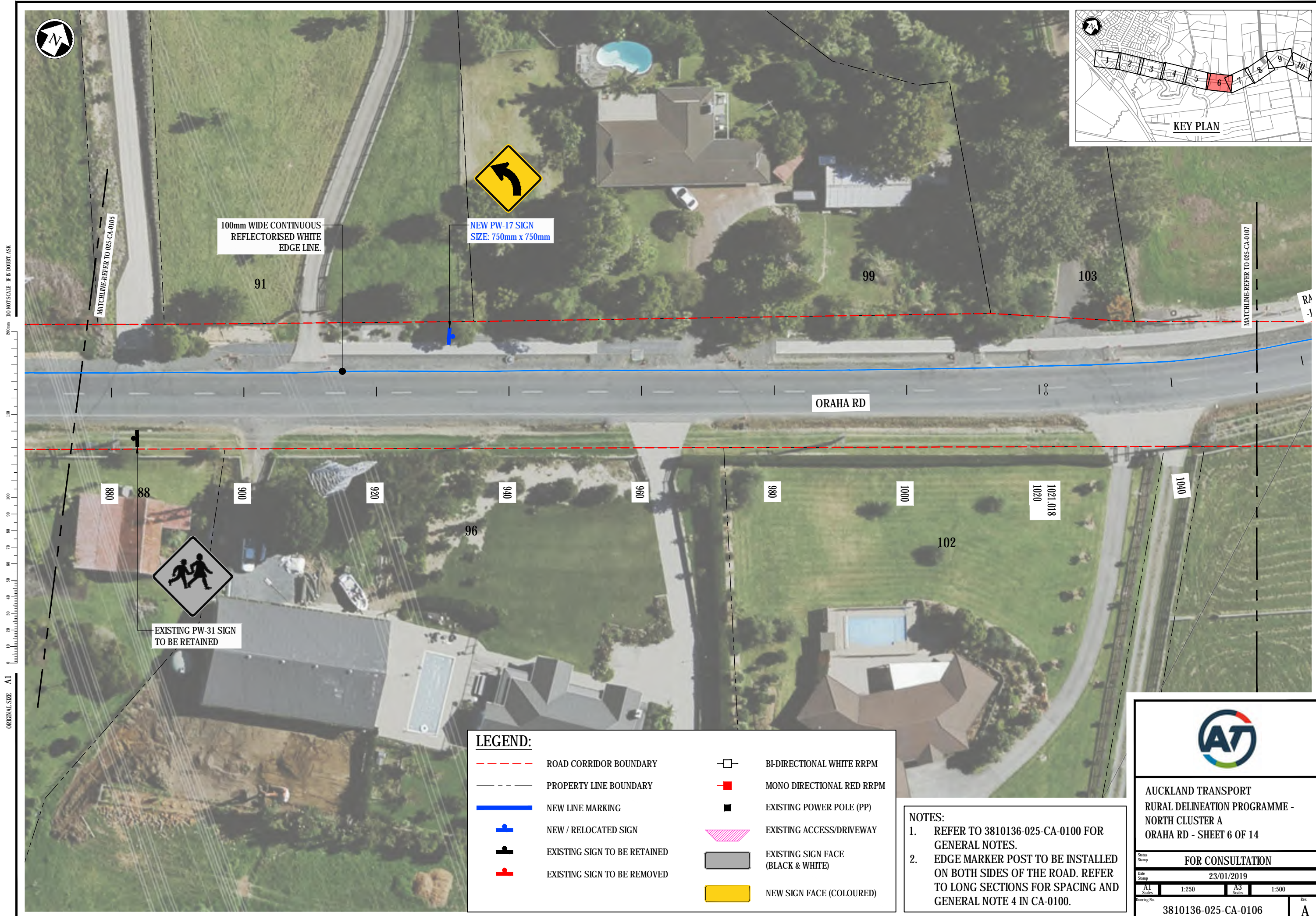


AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 5 OF 14

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250	A3 Scales: 1:500
Drawing No. 3810136-025-CA-0105	
Rev. A	



100mm WIDE CONTINUOUS REFLECTORISED WHITE EDGE LINE.

NEW PW-17 SIGN
SIZE: 750mm x 750mm

EXISTING PW-31 SIGN
TO BE RETAINED

LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

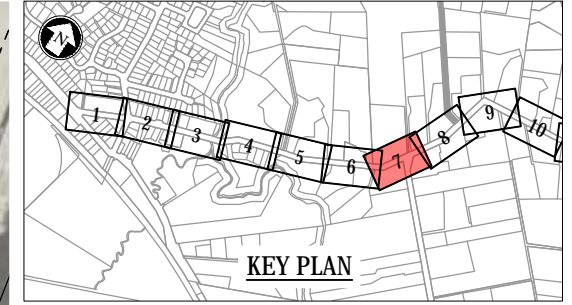
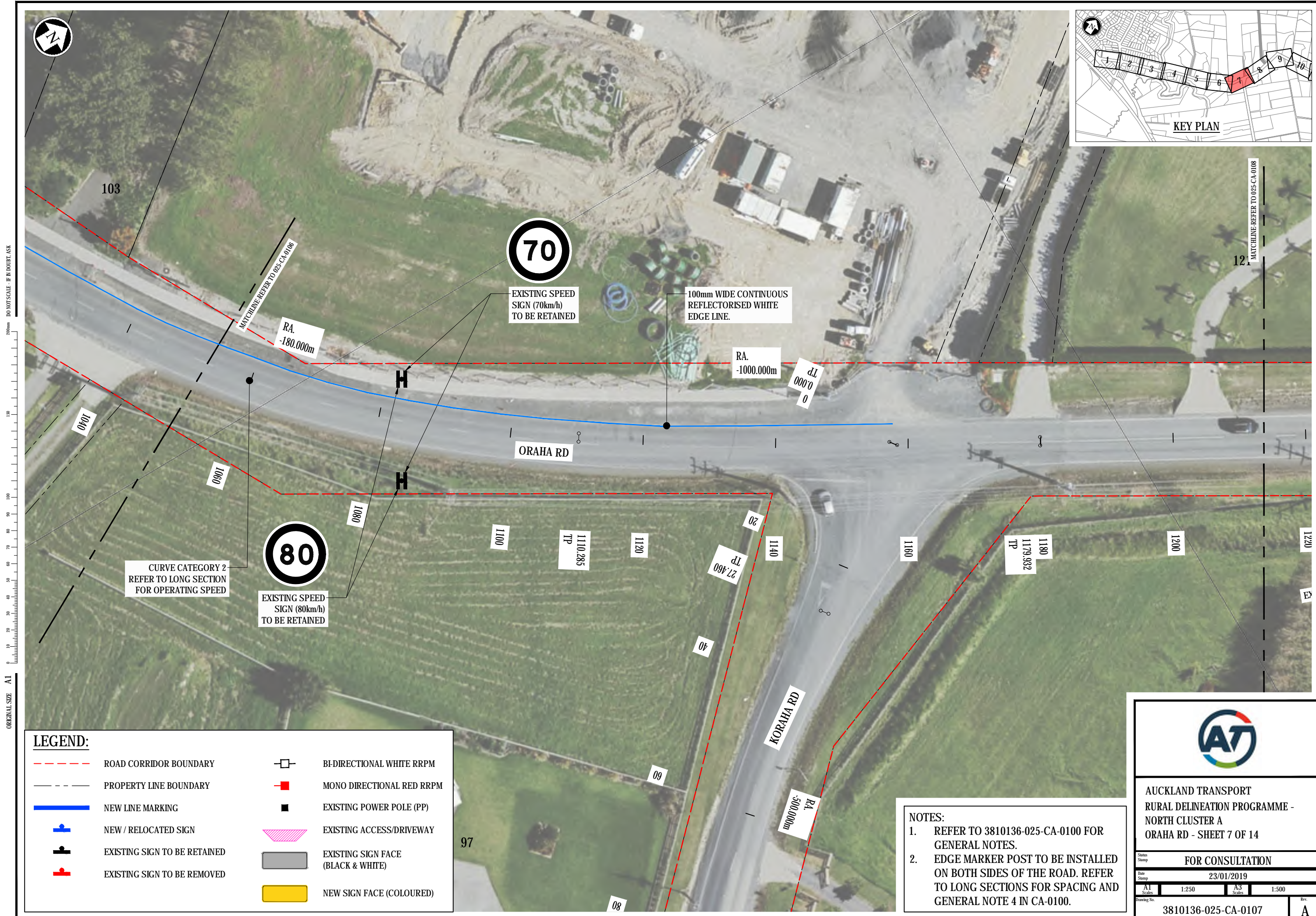
NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 6 OF 14

FOR CONSULTATION	
Date Stamp	23/01/2019
A1 Scales	1:250
A3 Scales	1:500
Drawing No.	3810136-025-CA-0106
Rev.	A




ORIGINAL SIZE - A1
DO NOT SCALE - IF IN DOUBT, ASK

LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



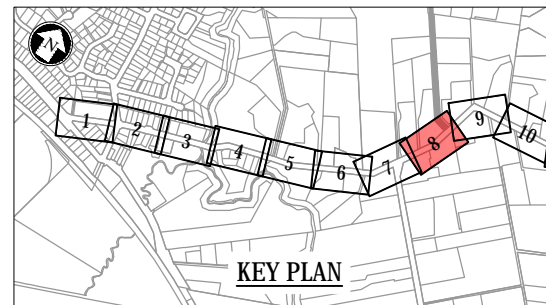
AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 7 OF 14

FOR CONSULTATION

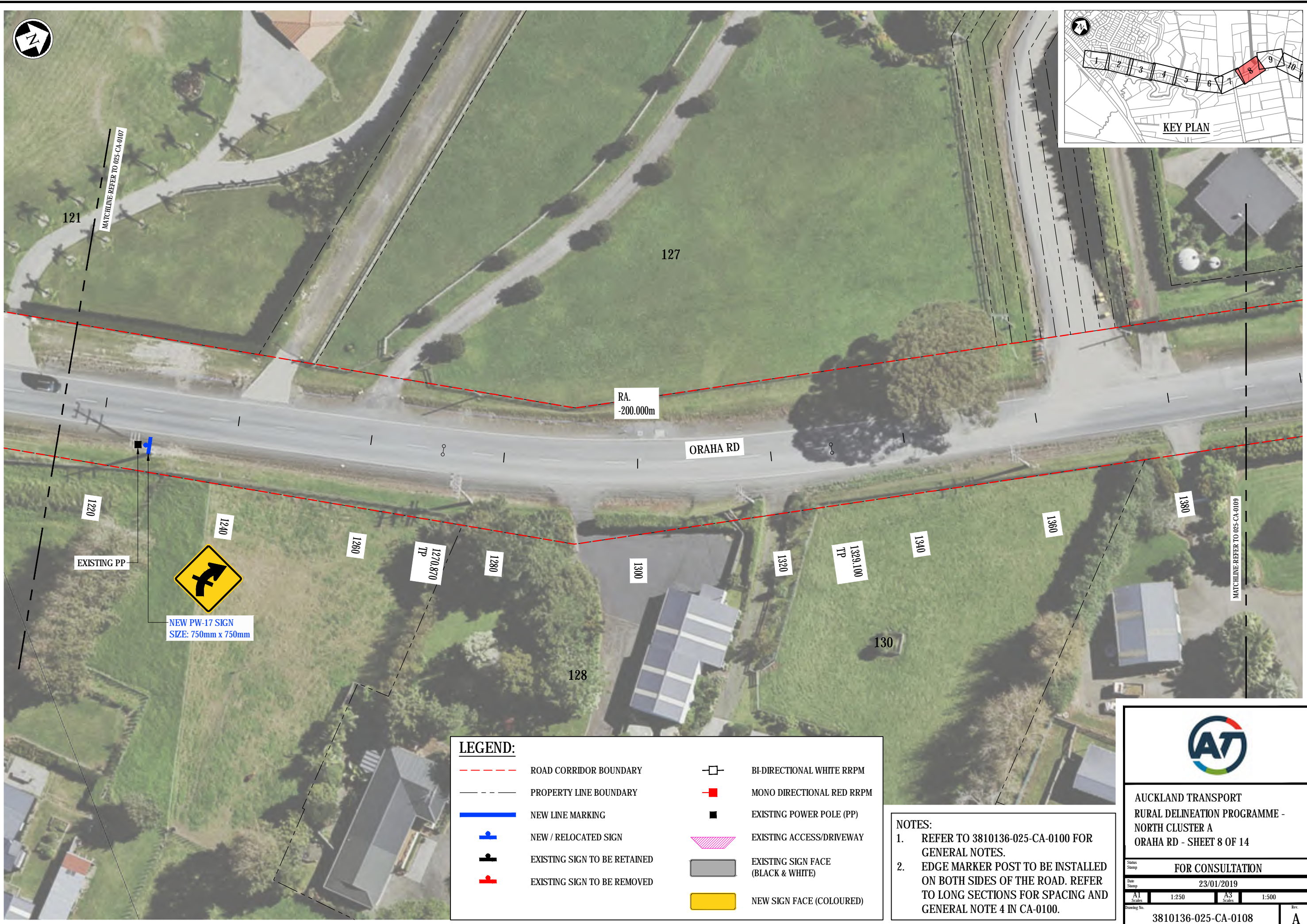
Date Stamp: 23/01/2019

A1 Scales	1:250	A3 Scales	1:500
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Drawing No. 3810136-025-CA-0107 Rev. A



DO NOT SCALE - IF IN DOUBT, ASK
200mm
150
100
90
80
70
60
50
40
30
20
10
0
ORIGINAL SIZE A1




LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



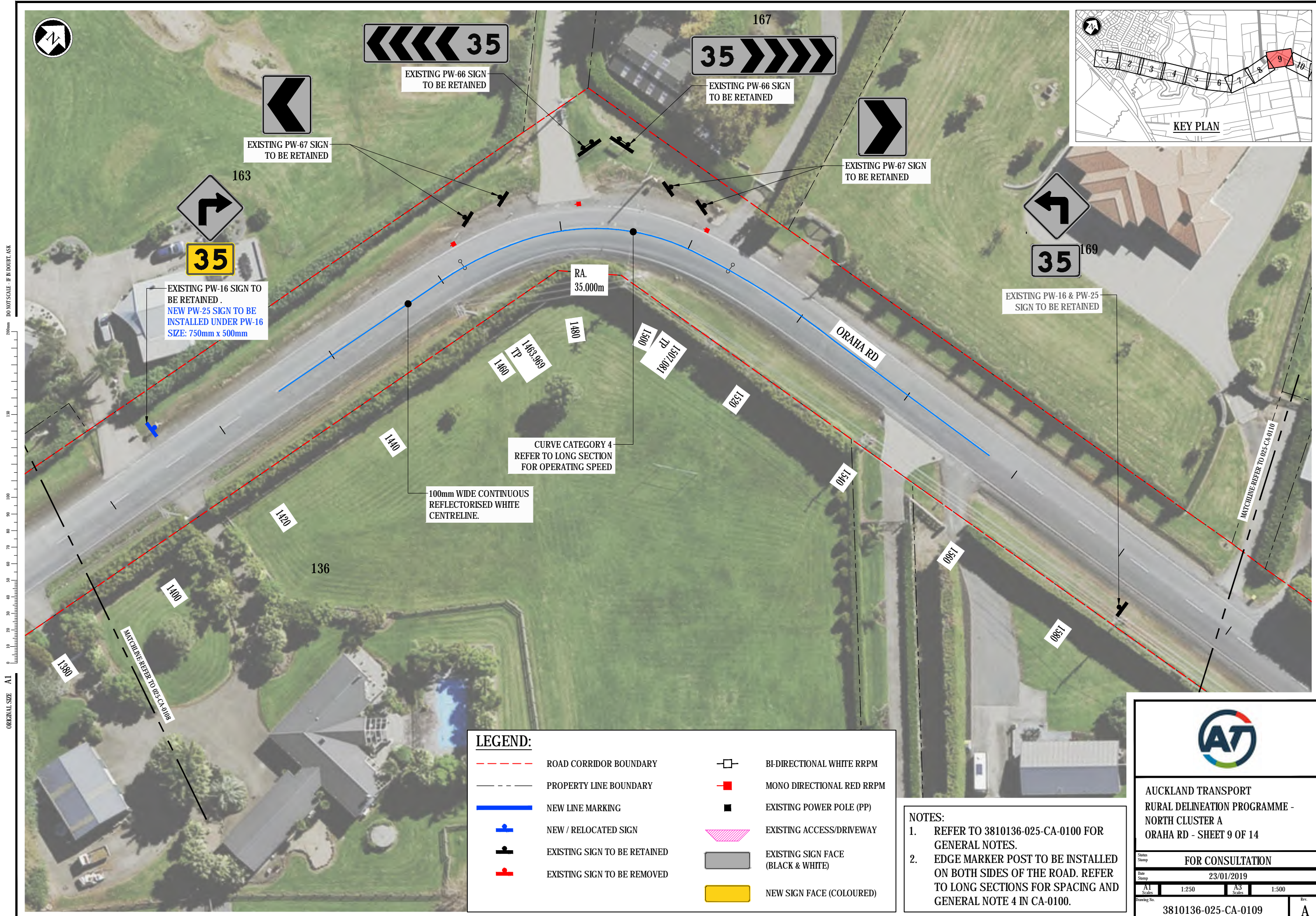
AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 8 OF 14

FOR CONSULTATION

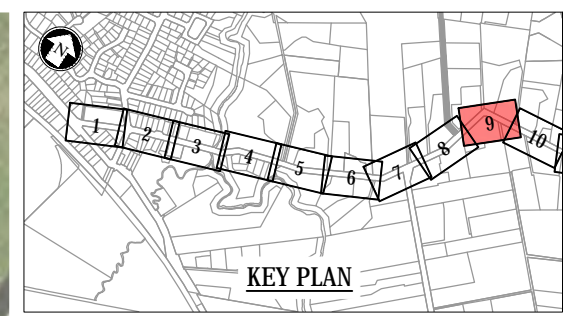
Date Stamp: 23/01/2019

A1 Scales	1:250	A3 Scales	1:500
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Drawing No. 3810136-025-CA-0108 Rev. A



ORIGINAL SIZE A1
DO NOT SCALE - IF IN DOUBT, ASK



EXISTING PW-16 SIGN TO BE RETAINED.
NEW PW-25 SIGN TO BE INSTALLED UNDER PW-16
SIZE: 750mm x 500mm

EXISTING PW-66 SIGN TO BE RETAINED

EXISTING PW-66 SIGN TO BE RETAINED

EXISTING PW-67 SIGN TO BE RETAINED

EXISTING PW-16 & PW-25 SIGN TO BE RETAINED

CURVE CATEGORY 4
REFER TO LONG SECTION FOR OPERATING SPEED

100mm WIDE CONTINUOUS REFLECTORISED WHITE CENTRELINE.

LEGEND:

	ROAD CORRIDOR BOUNDARY		EXISTING SIGN FACE (BLACK & WHITE)
	PROPERTY LINE BOUNDARY		NEW SIGN FACE (COLOURED)
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		MONO DIRECTIONAL RED RRPM
	EXISTING SIGN TO BE REMOVED		BI-DIRECTIONAL WHITE RRPM

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.

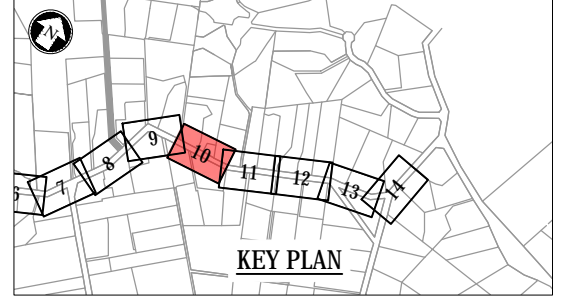
**AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 9 OF 14**

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250	A3 Scales: 1:500
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Drawing No. 3810136-025-CA-0109 Rev. A



ORIGINAL SIZE - A1
DO NOT SCALE - IF IN DOUBT, ASK




LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 10 OF 14

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales	1:250	A3 Scales	1:500
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Drawing No. 3810136-025-CA-0110 Rev. A




LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



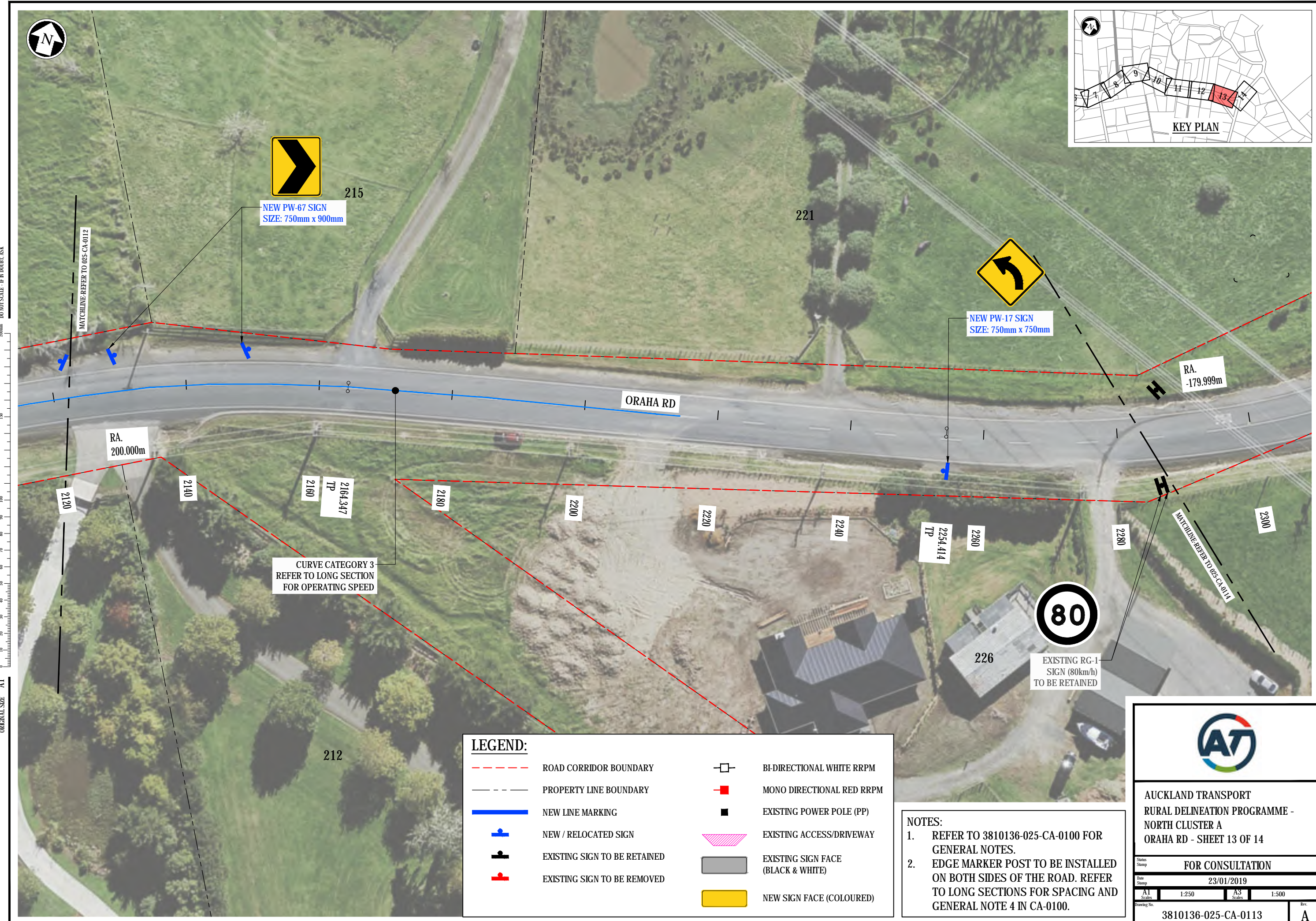
**AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 11 OF 14**

FOR CONSULTATION

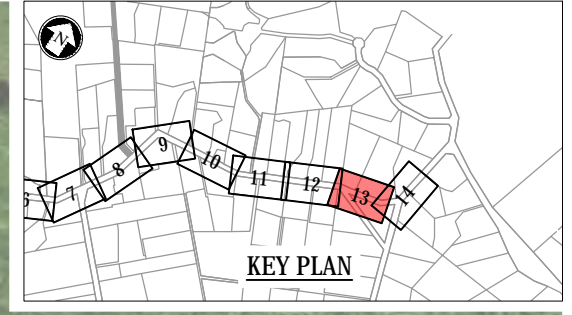
Date Stamp: 23/01/2019

A1 Scales	1:250	A3 Scales	1:500
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Drawing No. 3810136-025-CA-0111 Rev. A




DO NOT SCALE - IF IN DOUBT, ASK
 200mm
 150
 100
 90
 80
 70
 60
 50
 40
 30
 20
 10
 0
 ORIGINAL SIZE A1



LEGEND:			
	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



AUCKLAND TRANSPORT
 RURAL DELINEATION PROGRAMME -
 NORTH CLUSTER A
 ORAHA RD - SHEET 13 OF 14

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250	A3 Scales: 1:500
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Drawing No. 3810136-025-CA-0113 Rev. A

RA. 200.000m

RA. -179.999m

CURVE CATEGORY 3
 REFER TO LONG SECTION
 FOR OPERATING SPEED

80
 EXISTING RG-1
 SIGN (80km/h)
 TO BE RETAINED

MATCHLINE REFER TO 025-CA-0114

MATCHLINE REFER TO 025-CA-0112

NEW PW-67 SIGN
 SIZE: 750mm x 900mm

NEW PW-17 SIGN
 SIZE: 750mm x 750mm

ORAHA RD

2160 TP
 2164.347

2254.414 TP

212

221

226

215

2120

2140

2180

2200

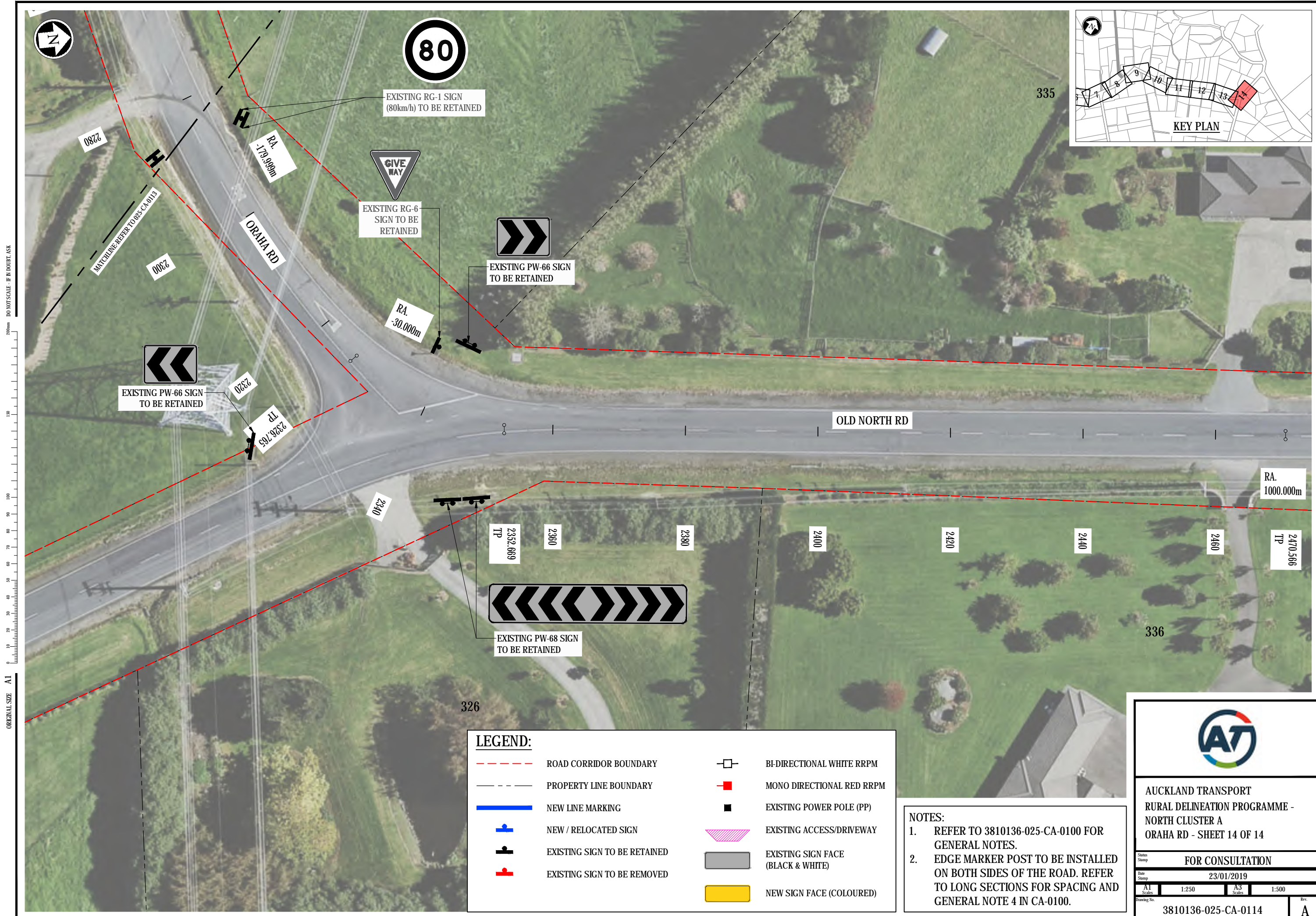
2220

2240

2260

2280

2300



EXISTING RG-1 SIGN
(80km/h) TO BE RETAINED



EXISTING RG-6
SIGN TO BE RETAINED



EXISTING PW-66 SIGN
TO BE RETAINED



EXISTING PW-66 SIGN
TO BE RETAINED



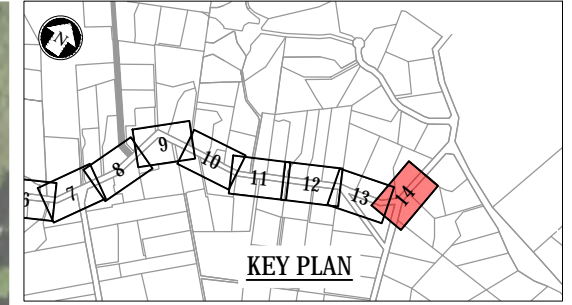
EXISTING PW-68 SIGN
TO BE RETAINED

LEGEND:

	ROAD CORRIDOR BOUNDARY		BI-DIRECTIONAL WHITE RRPM
	PROPERTY LINE BOUNDARY		MONO DIRECTIONAL RED RRPM
	NEW LINE MARKING		EXISTING POWER POLE (PP)
	NEW / RELOCATED SIGN		EXISTING ACCESS/DRIVEWAY
	EXISTING SIGN TO BE RETAINED		EXISTING SIGN FACE (BLACK & WHITE)
	EXISTING SIGN TO BE REMOVED		NEW SIGN FACE (COLOURED)

NOTES:

- REFER TO 3810136-025-CA-0100 FOR GENERAL NOTES.
- EDGE MARKER POST TO BE INSTALLED ON BOTH SIDES OF THE ROAD. REFER TO LONG SECTIONS FOR SPACING AND GENERAL NOTE 4 IN CA-0100.



AUCKLAND TRANSPORT
RURAL DELINEATION PROGRAMME -
NORTH CLUSTER A
ORAHA RD - SHEET 14 OF 14

FOR CONSULTATION

Date Stamp: 23/01/2019

A1 Scales: 1:250	A3 Scales: 1:500
Drawing No.: 3810136-025-CA-0114	Rev.: A

ORIGINAL SIZE A1 DO NOT SCALE - IF IN DOUBT, ASK