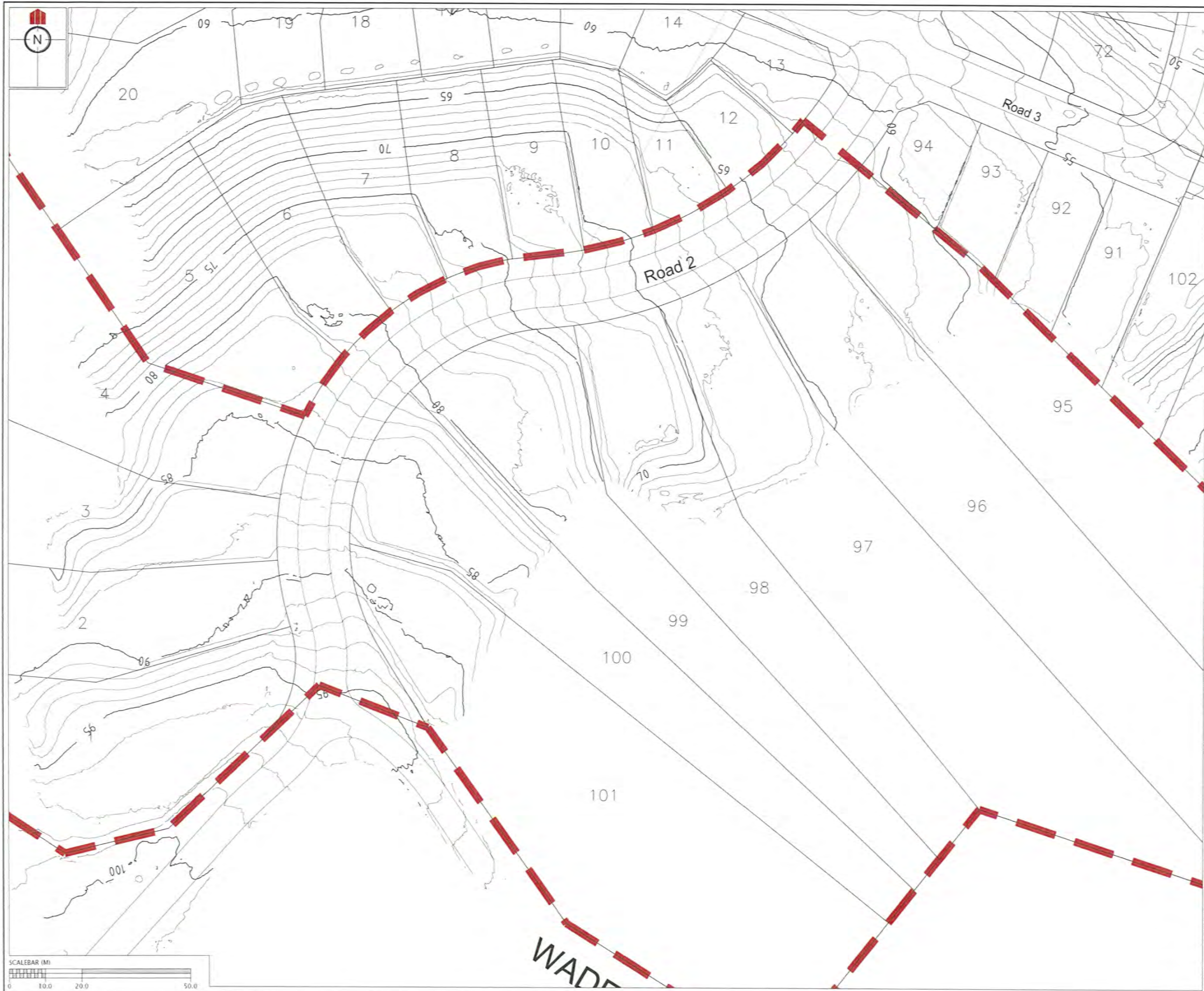


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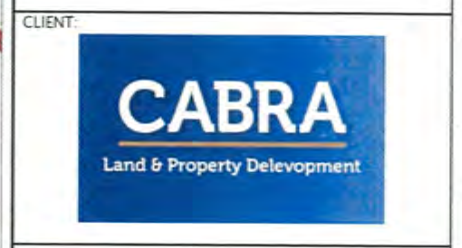
REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	6/10/14

CERTIFICATION
William Cheung LICENSED CADASTRAL SURVEYOR
 HEREBY CERTIFY THE ACCURACY OF THIS AS-BUILT INFORMATION
 SIGNED: *[Signature]*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	CIVIL STAGE EXTENTS

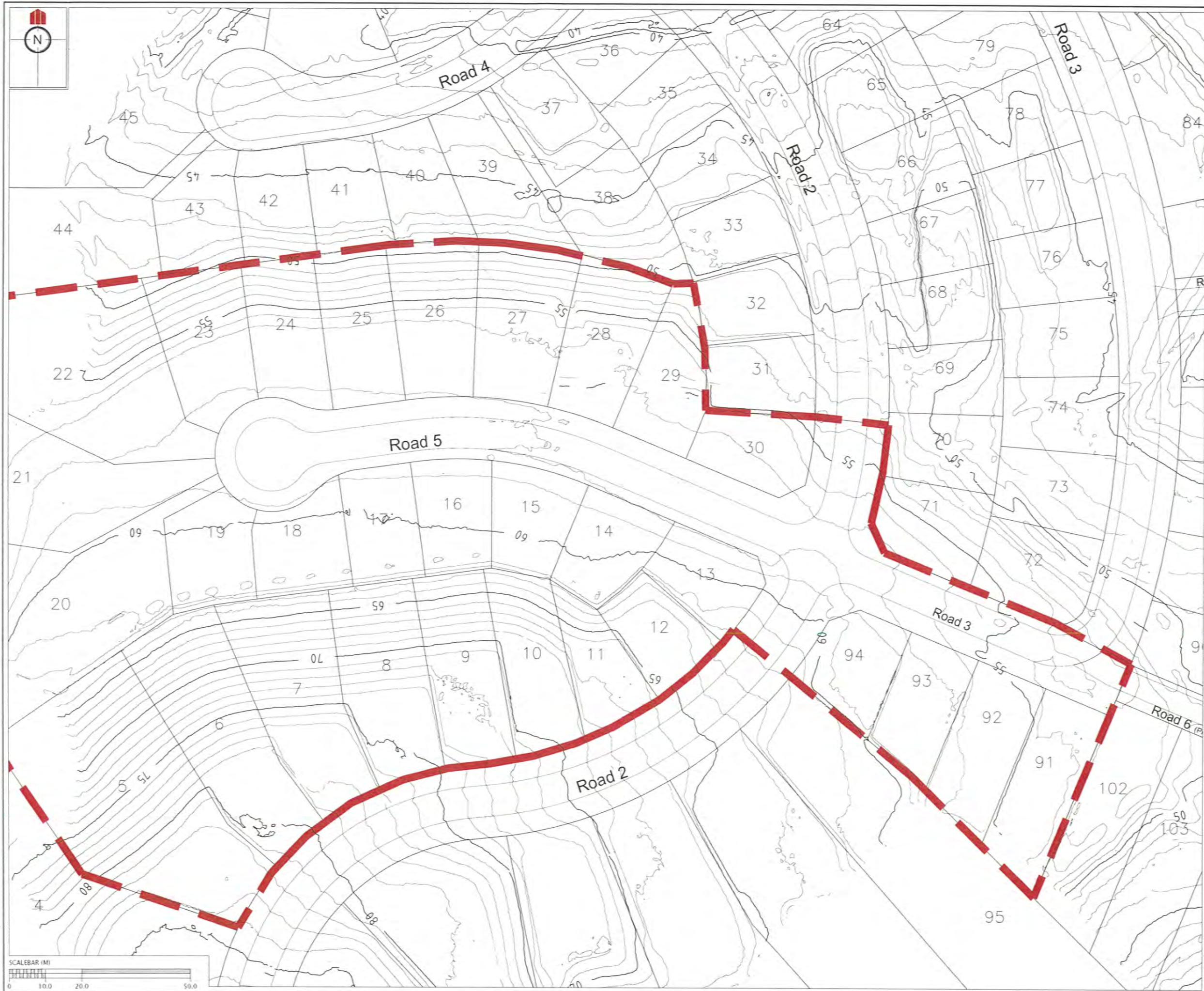


KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - FINAL CONTOURS STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO. 60356-1-2A-GCR-100	REV. 1

c:\60356 Karepiro Development\Project Data\Acad Drawings\As-Built\Stage 1&2\GCR\60356-1-2A-GCR-100 FINAL CONTS.dwg, 20/10/2014 12:27:46 p.m.



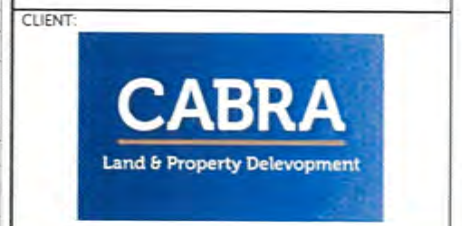
REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	XX	06/10/14

CERTIFICATION
William Cheng LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *[Signature]*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	CIVIL STAGE EXTENTS

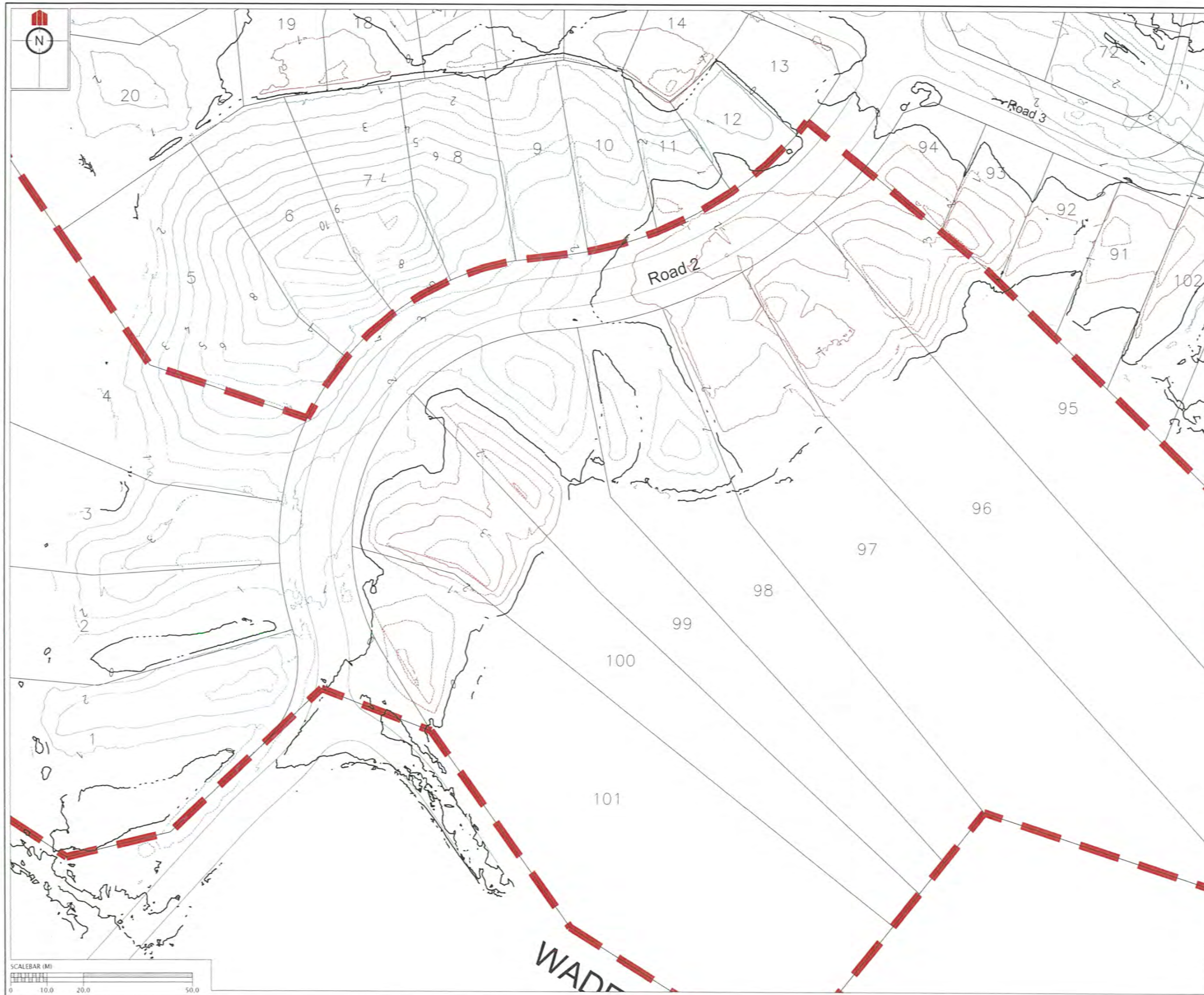


**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - FINAL CONTOURS
 STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO: 60356-1-2A-GCR-101	REV: 1

\\60356 Karepiro Development\Project Data\Acad Drawings\As-Built\Stage 1&2\GCR\60356-1-2A-GCR-110 DEPTH CONTS.dwg, 20/10/2014 12:27:54 p.m.



REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, *William Cheung* LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *[Signature]*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - CONTOURS ARE AT 1.0 METRE INTERVALS
 - DEPTHS OF CUT/FILL SHOWN ON THIS PLAN HAVE BEEN CALCULATED BETWEEN THE FOLLOWING SURFACES:
 - EXISTING PRE-EARTHWORKS SURFACE
 - PILBROW LIDAR FINAL SURFACE
 - CONTOURS SHOWN INDICATE TOTAL DEPTH OF CUT/FILL FROM EXISTING PRE-EARTHWORKS SURFACE TO FINISHED SURFACE AS OF 23/07/14.

LEGEND

	FILL CONTOURS
	CUT CONTOURS
	ZERO CONTOURS
	CIVIL STAGE EXTENTS

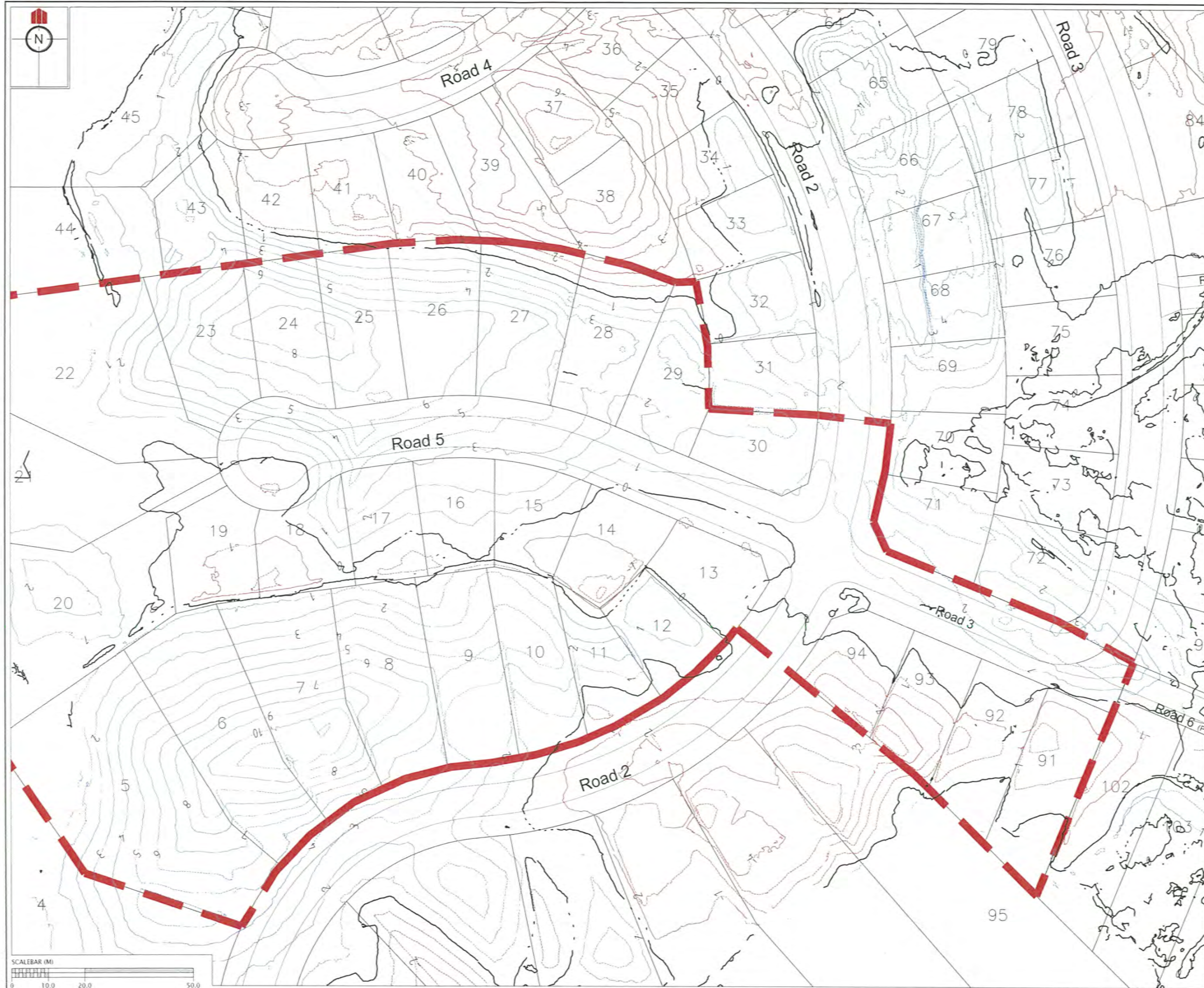
CLIENT:

**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - DEPTH CONTOURS
 EXISTING TO FINISHED
 STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO. 60356-1-2A-GCR-110	REV. 1

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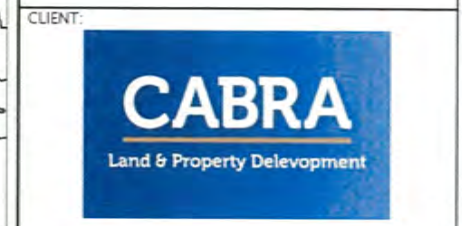
REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, William Chen, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - CONTOURS ARE AT 1.0 METRE INTERVALS
 - DEPTHS OF CUT/FILL SHOWN ON THIS PLAN HAVE BEEN CALCULATED BETWEEN THE FOLLOWING SURFACES:
 - EXISTING PRE-EARTHWORKS SURFACE
 - FILLBROW LIDAR FINAL SURFACE
 - CONTOURS SHOW INDICATE TOTAL DEPTH OF CUT/FILL FROM EXISTING PRE-EARTHWORKS SURFACE TO FINISHED SURFACE AS OF 23/07/14.

LEGEND

	FILL CONTOURS
	CUT CONTOURS
	ZERO CONTOURS
	CIVIL STAGE EXTENTS

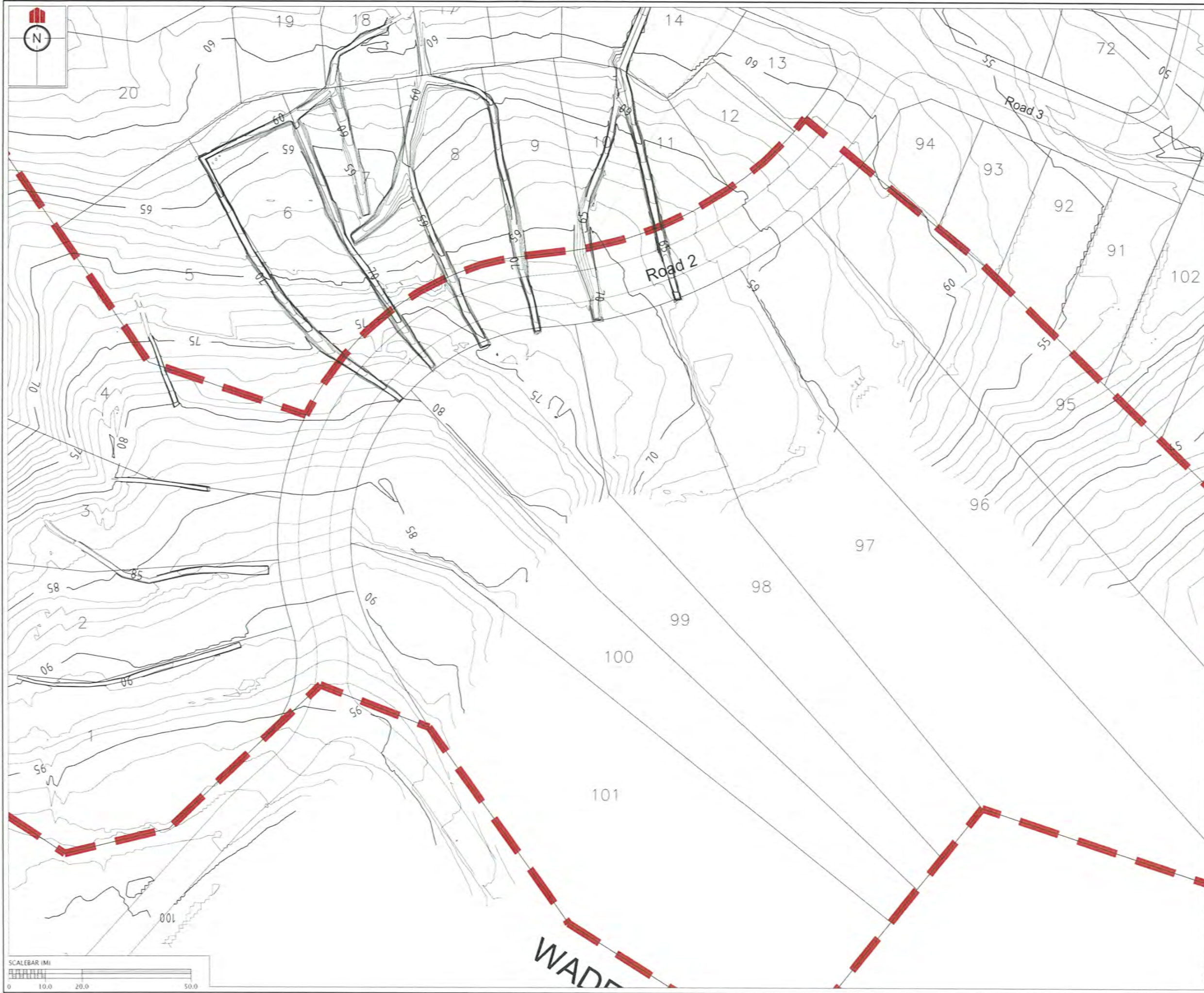


KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - DEPTH CONTOURS EXISTING TO FINISHED STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWC. NO. 60356-1-2A-GCR-111	REV. 1

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REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, William Chess, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	CIVIL STAGE EXTENTS



**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - UNDERCUT
 CONTOURS
 STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO. 60356-1-2A-GCR-120	REV. 1

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REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, William Cheung LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	CIVIL STAGE EXTENTS

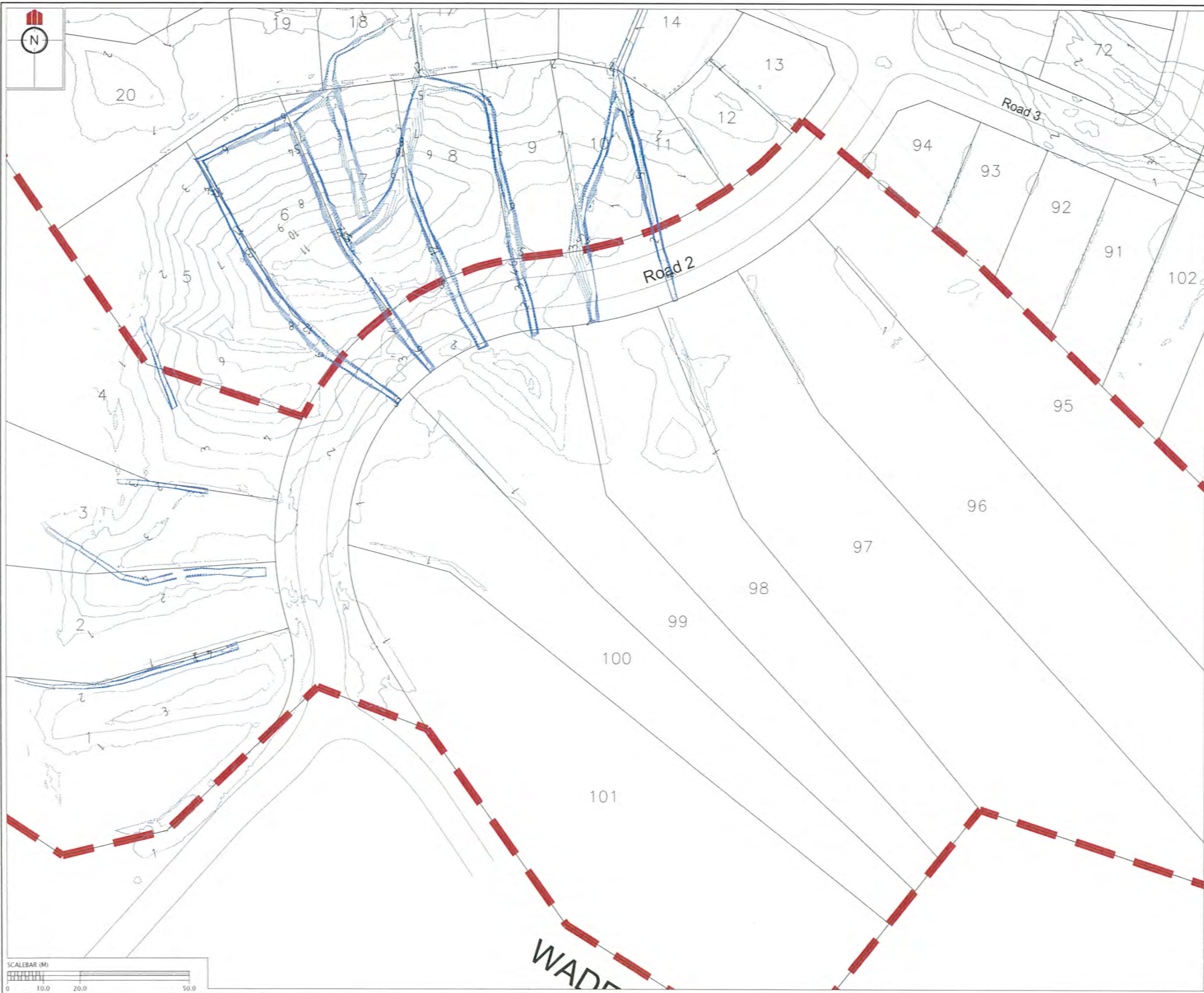


**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - UNDERCUT
 CONTOURS
 STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWC. NO: 60356-1-2A-GCR-121	REV: 1

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REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
William Chen LICENSED CADASTRAL SURVEYOR.
 HEREBY CERTIFY THE ACCURACY OF THIS AS-BUILT INFORMATION.
 SIGNED: *[Signature]*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY
 - CONTOURS ARE AT 1.0 METRE INTERVALS
 - DEPTHS OF CUT/FILL SHOWN ON THIS PLAN HAVE BEEN CALCULATED BETWEEN THE FOLLOWING SURFACES:
 - COMBINED UNDERCUT SURFACE
 - PLS/BROW LIDAR FINAL SURFACE
 - CONTOURS SHOWN INDICATE TOTAL DEPTH OF FILL FROM BASE OF ENGINEERED GEOTECHNICAL FEATURES TO THE FINAL SURFACE.

LEGEND

	FILL CONTOURS
	ZERO CONTOURS
	CIVIL STAGE EXTENTS
	SHEAR KEY EXTENTS
	UNSUITABLES UNDERCUT EXTENTS
	UNDERFILL KEY DRAIN EXTENTS

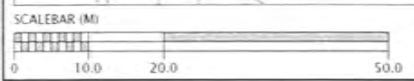
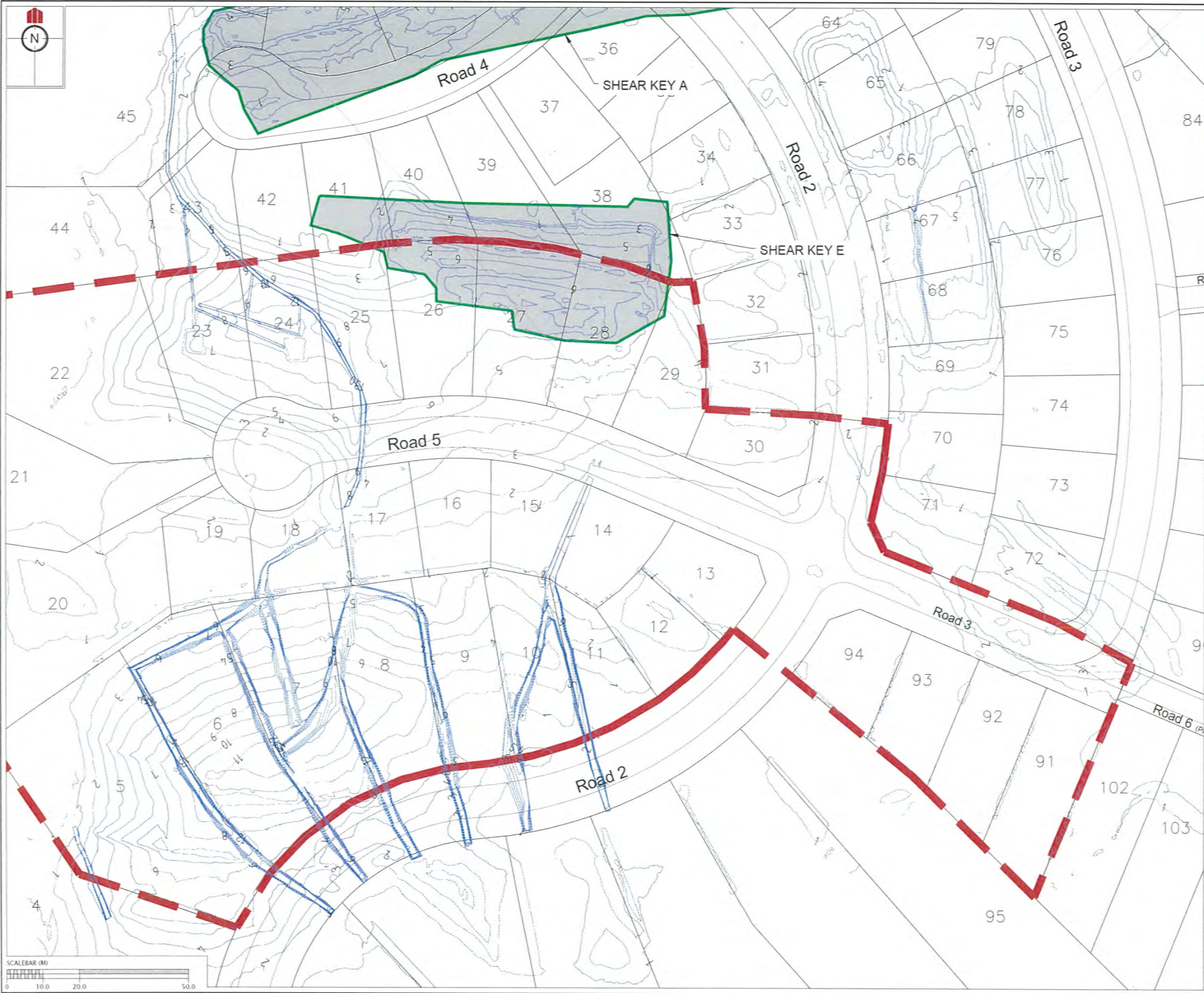


KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - DEPTH CONTOURS
 TOTAL FILL DEPTH
 STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO: 60356-1-2A-GCR-130	REV: 1

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REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, *William Cherry* LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *W. Cherry*
 LICENSED CADASTRAL SURVEYOR
 DATE: *20/10/14*

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - CONTOURS ARE AT 1.0 METRE INTERVALS
 - DEPTHS OF CUT/FILL SHOWN ON THIS PLAN HAVE BEEN CALCULATED BETWEEN THE FOLLOWING SURFACES:
 - COMBINED UNDERCUT SURFACE
 - PILBROW LIDAR FINAL SURFACE
 - CONTOURS SHOWN INDICATE TOTAL DEPTH OF FILL FROM BASE OF ENGINEERED GEOTECHNICAL FEATURES TO THE FINAL SURFACE.

LEGEND

	FILL CONTOURS
	ZERO CONTOURS
	CIVIL STAGE EXTENTS
	SHEAR KEY EXTENTS
	UNSUITABLES UNDERCUT EXTENTS
	UNDERFILL KEY DRAIN EXTENTS

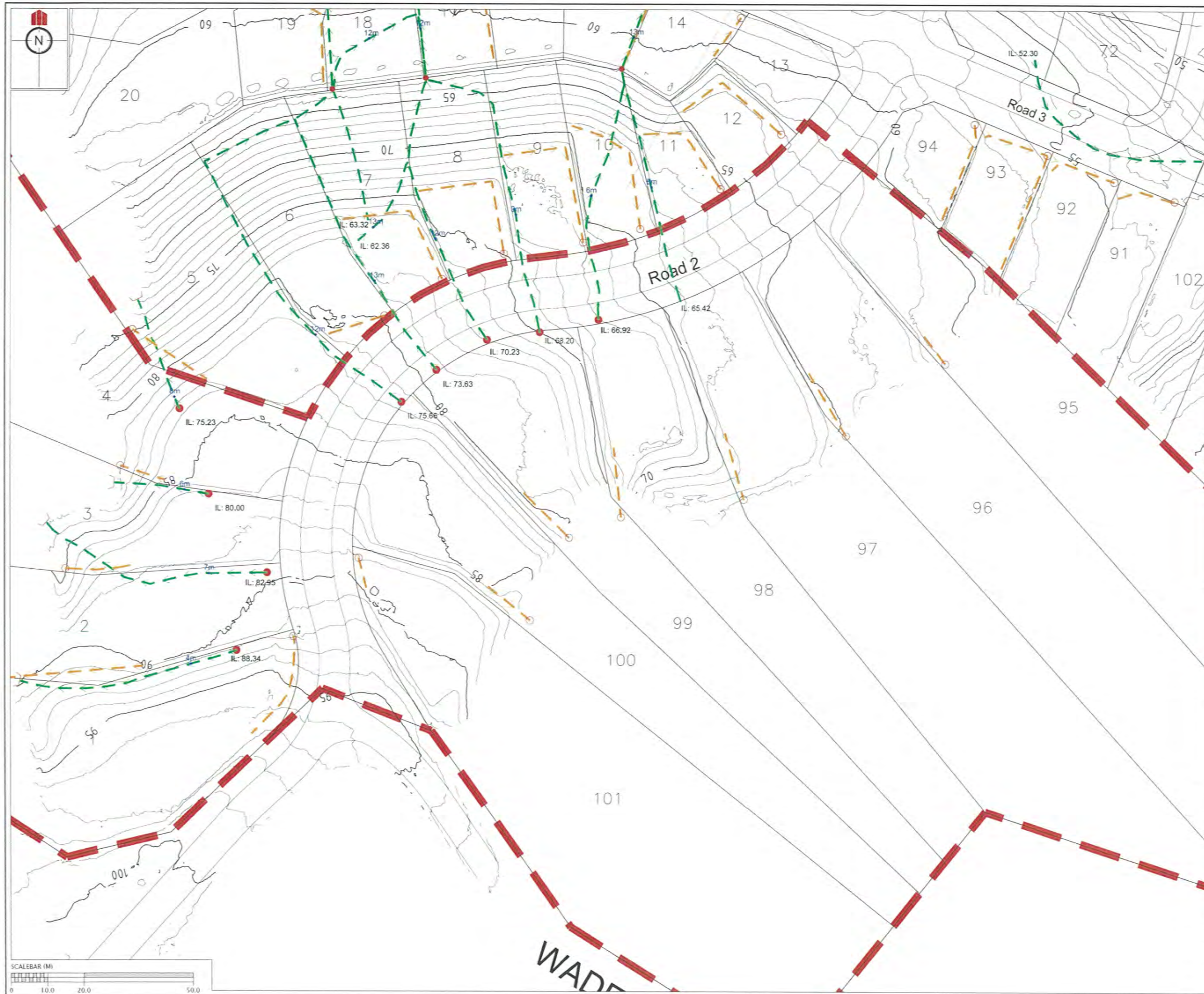
CLIENT:

**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - DEPTH CONTOURS
 TOTAL FILL DEPTH
 STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO. 60356-1-2A-GCR-131	REV. 1

C:\60356 Karepiro Development\Project Data\Acad Drawings\As-Built\Stage 1\2A-GCR-140 COUNTERFORT DRAINS.dwg, 20/10/2014 12:28:35 p.m.



REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14


CERTIFICATION
 I, William Clewley, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY
 - ALL NOVAFLOW PIPES SHOWN ARE 160mm HI-WAY GRADE NOVAFLOW.

LEGEND

	CONTOURS (1.0m INTERVAL)
	CIVIL STAGE EXTENTS
	COUNTERFORT DRAIN AND STANDARD SUBSOIL DRAINS (SEE DETAIL 3)
	SHEAR KEY AND BATTER DRAINS (SEE DETAILS 1, 2 & 10318-02-EW-165 GCR)
	UNDERCUT TYPE DRAIN (SEE DETAIL 5)
IL: 20.78	INVERT LEVEL AT HEAD OF RUN
5m	DEPTH TO SUBSOIL DRAIN
	STORMWATER MANHOLE
	RETAINING WALL DRAINAGE
	SHEAR KEY/UNDERFILL DRAIN MANHOLE
	FLUSHING POINT
	UNDERFILL OUTLET

CLIENT:

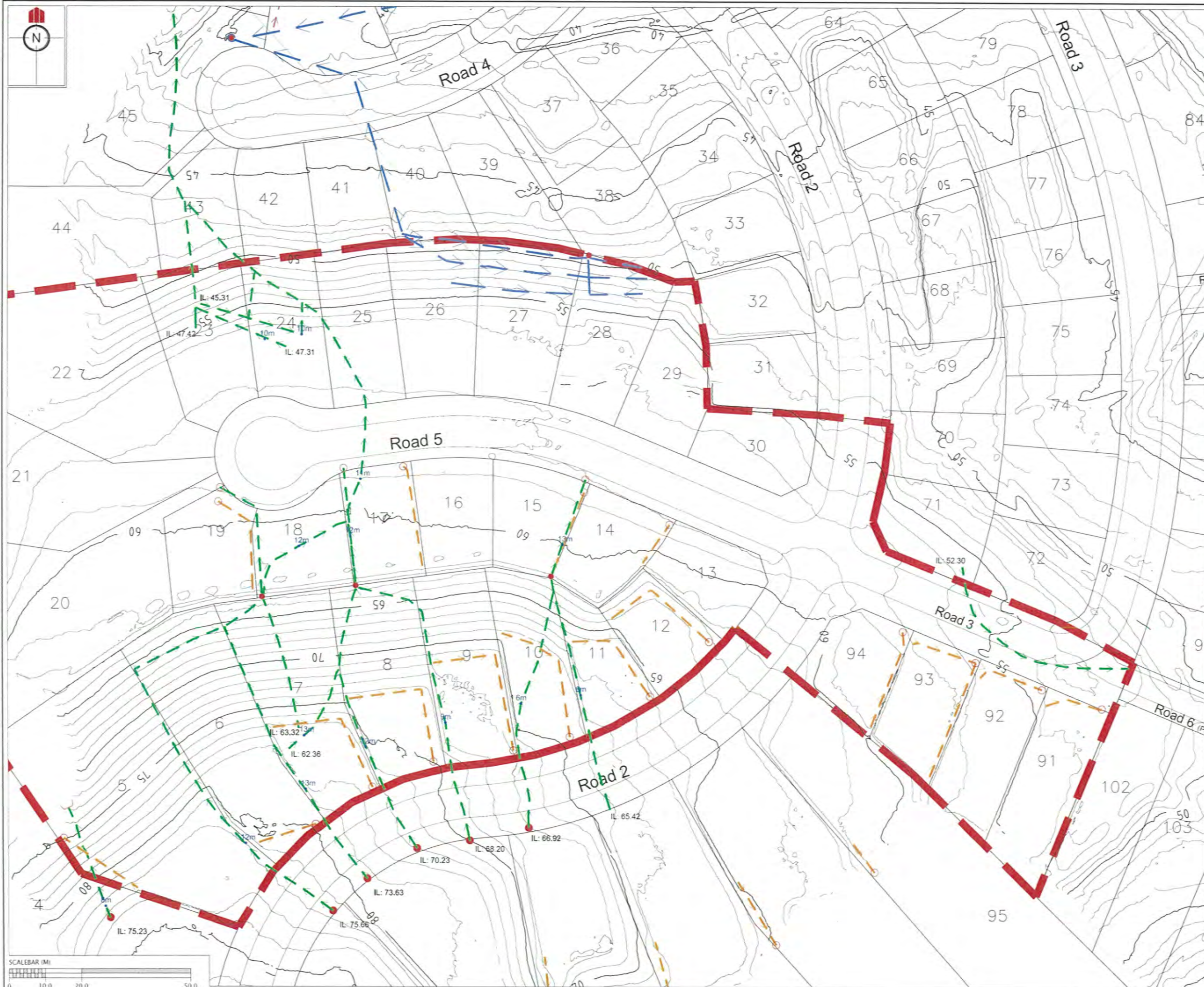



KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS SUBSOIL DRAINAGE PLAN STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO: 60356-1-2A-GCR-140	REV: 1

C:\60356 Karepiro Development\Project Data\Acad Drawings\As-Built\Stage 1&2\GCR\60356-1-2A-GCR-140 COUNTERFORT DRAINS.dwg, 20/10/2014 12:28:39 p.m.



REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, *William Cheung*, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *William Cheung*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1945
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY
 - ALL NOVAFLOW PIPES SHOWN ARE 160mm HI-WAY GRADE NOVAFLOW.

LEGEND

	CONTOURS (1.0m INTERVAL)
	CIVIL STAGE EXTENTS
	COUNTERFORT DRAIN AND STANDARD SUBSOIL DRAINS (SEE DETAIL 3)
	SHEAR KEY AND BATTER DRAINS (SEE DETAILS 1, 2 & 10318-02-EW-165 GCR)
	UNDERCUT TYPE DRAIN (SEE DETAIL 5)
IL: 20.78	INVERT LEVEL AT HEAD OF RUN
5m	DEPTH TO SUBSOIL DRAIN
	STORMWATER MANHOLE
	RETAINING WALL DRAINAGE
	SHEAR KEY/UNDERFILL DRAIN MANHOLE
	FLUSHING POINT
	UNDERFILL OUTLET

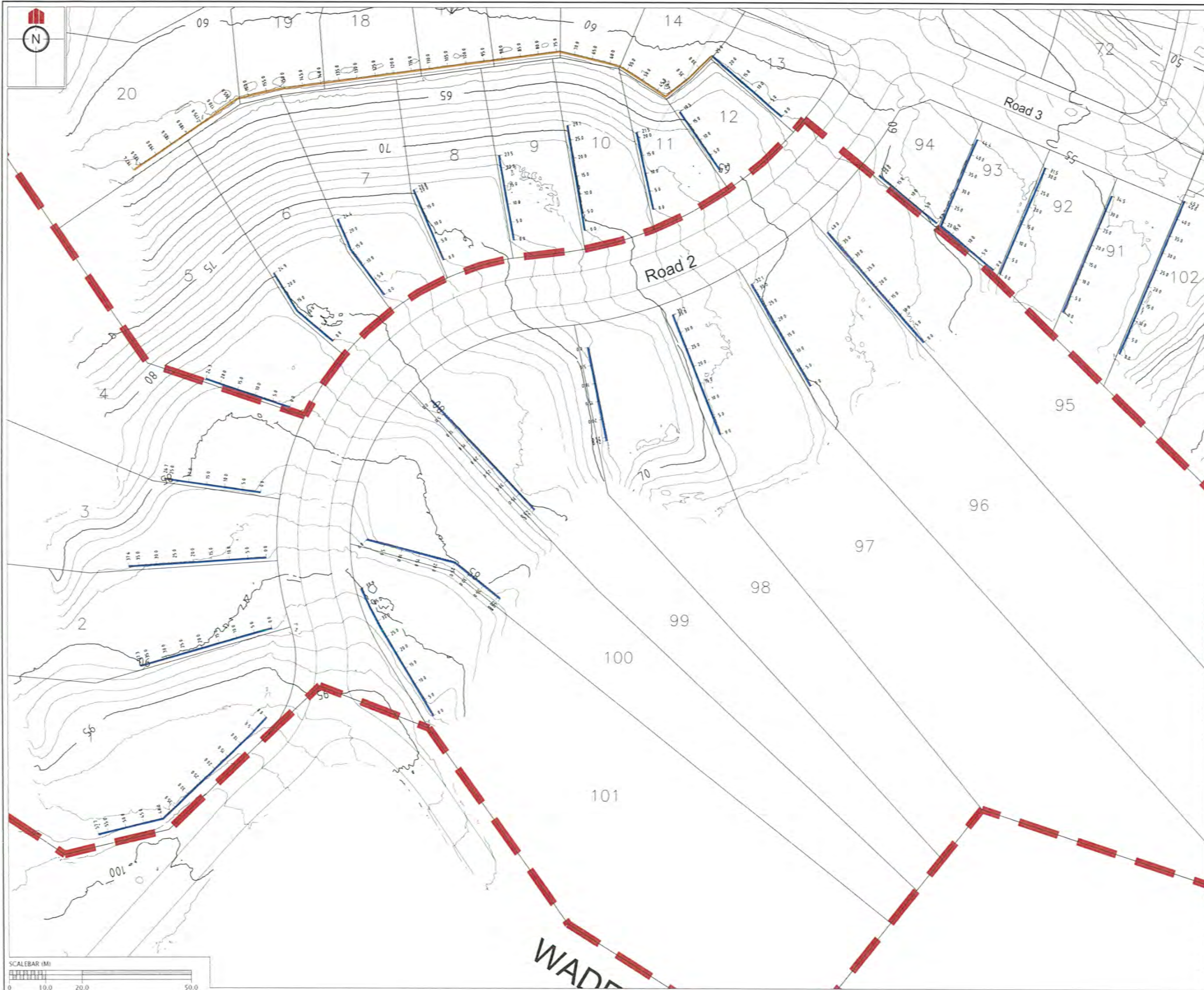
CLIENT:

KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS
 SUBSOIL DRAINAGE PLAN
 STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED: BP	DRAWN: BP
APPROVED: WOODS	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
EDWG. NO. 60356-1-2A-GCR-141	REV. 1

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REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
William Cheung LICENSED CADASTRAL SURVEYOR.
 HEREBY CERTIFY THE ACCURACY OF THIS AS-BUILT INFORMATION.
 SIGNED: *William Cheung*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	RETAINING WALL TYPE D
	RETAINING WALL TYPE E

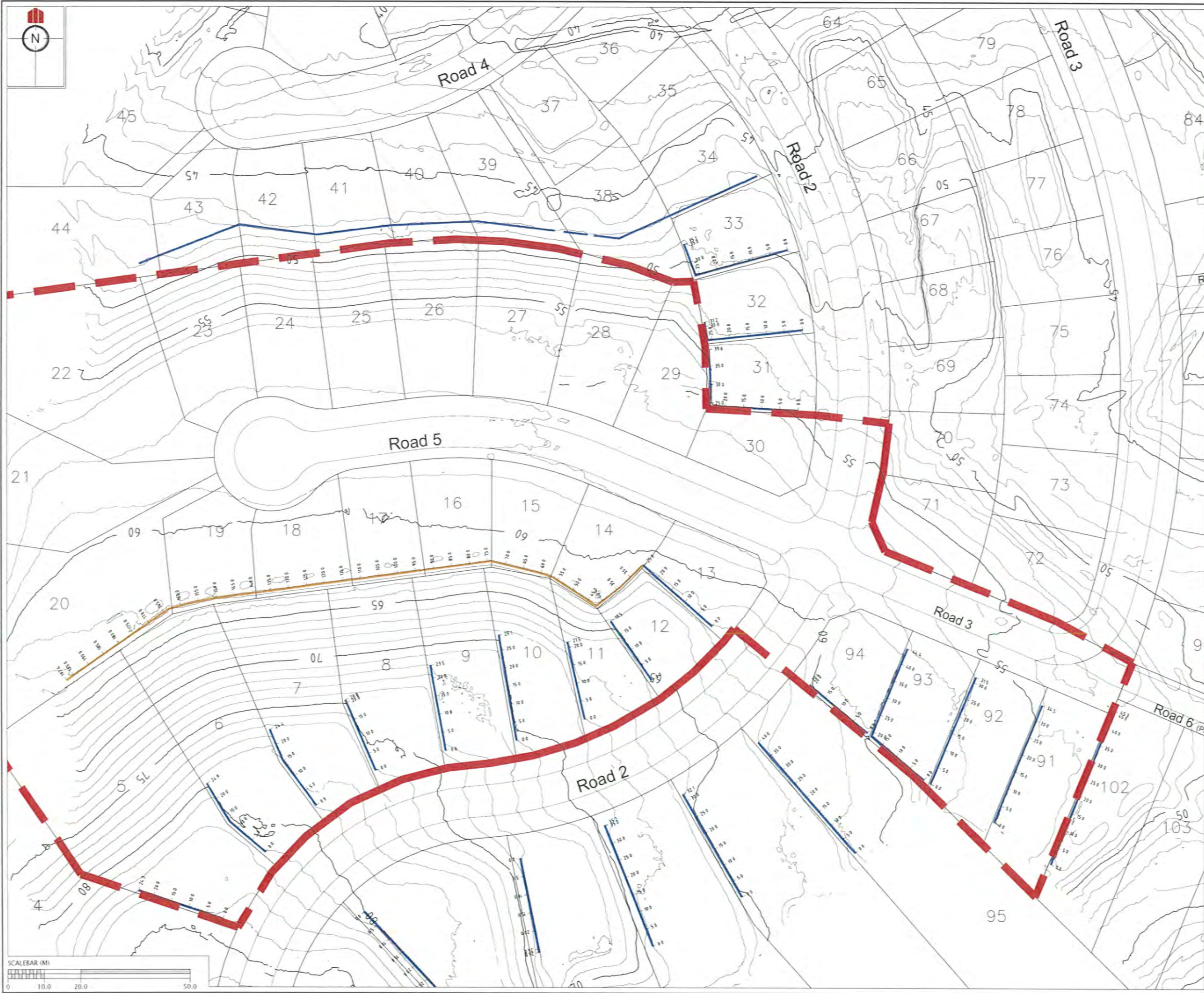
CLIENT:

KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - RETAINING WALLS STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO: 60356-1-2A-GCR-150	REV: 1

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REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
William Cheung LICENSED CADASTRAL SURVEYOR.
 HEREBY CERTIFY THE ACCURACY OF THIS AS-BUILT INFORMATION.
 SIGNED: *W. Cheung*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	RETAINING WALL TYPE D
	RETAINING WALL TYPE E

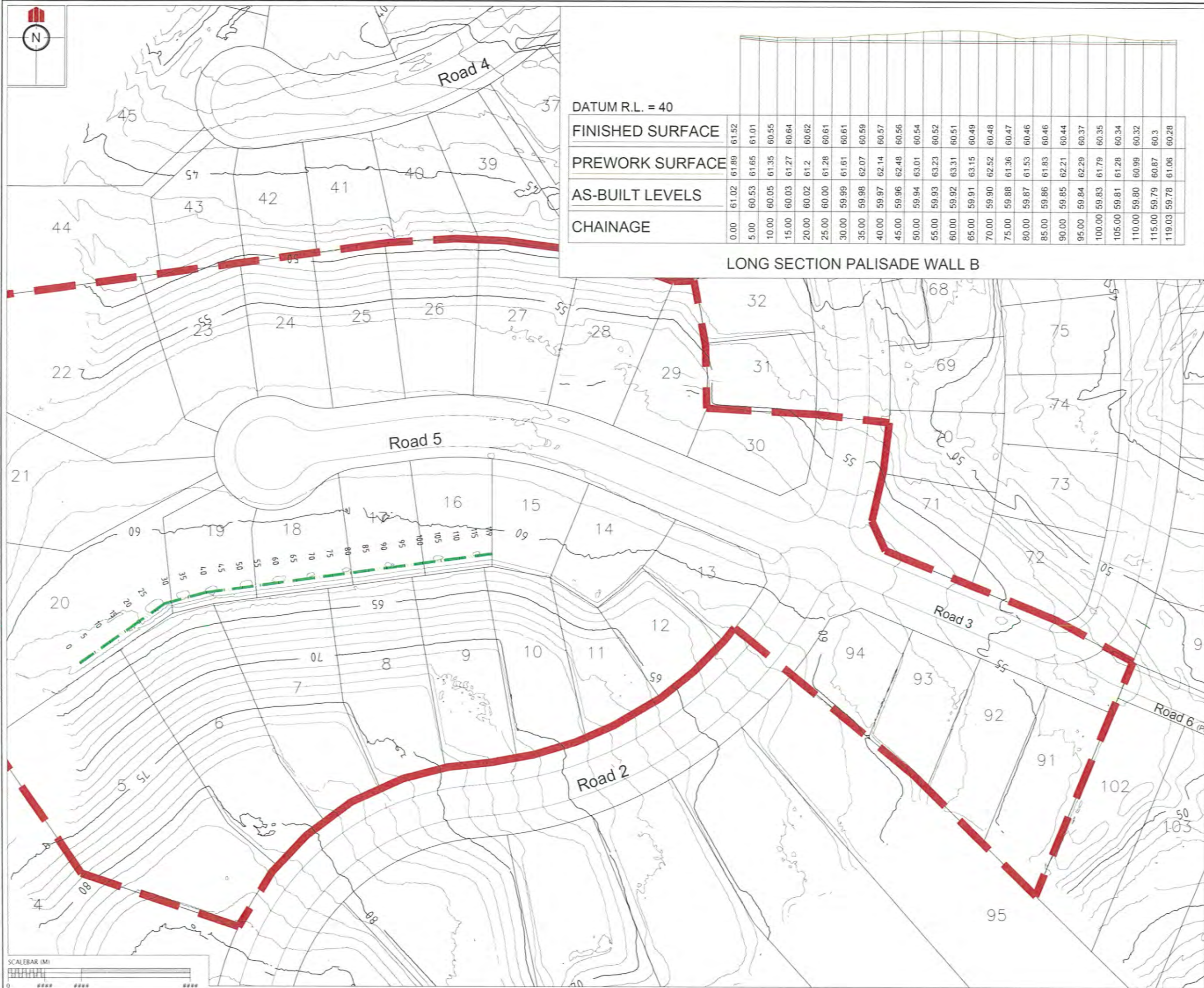


KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - RETAINING WALLS STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWC. NO. 60356-1-2A-GCR-151	REV. 1

C:\60356 Karepiro Development\Project Data\Acad Drawings\As-Built\Stage 1&2\GCR\60356-1-2A-GCR-160 PALISADE WALLS.dwg, 20/10/2014 12:28:59 p.m.



REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, *William Clancy*, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *W. Clancy*
 LICENSED CADASTRAL SURVEYOR
 DATE: *20/10/14*

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

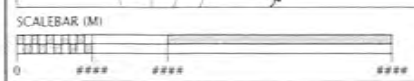
- CONTOURS (1.0m INTERVAL)
- PALISADE WALL B



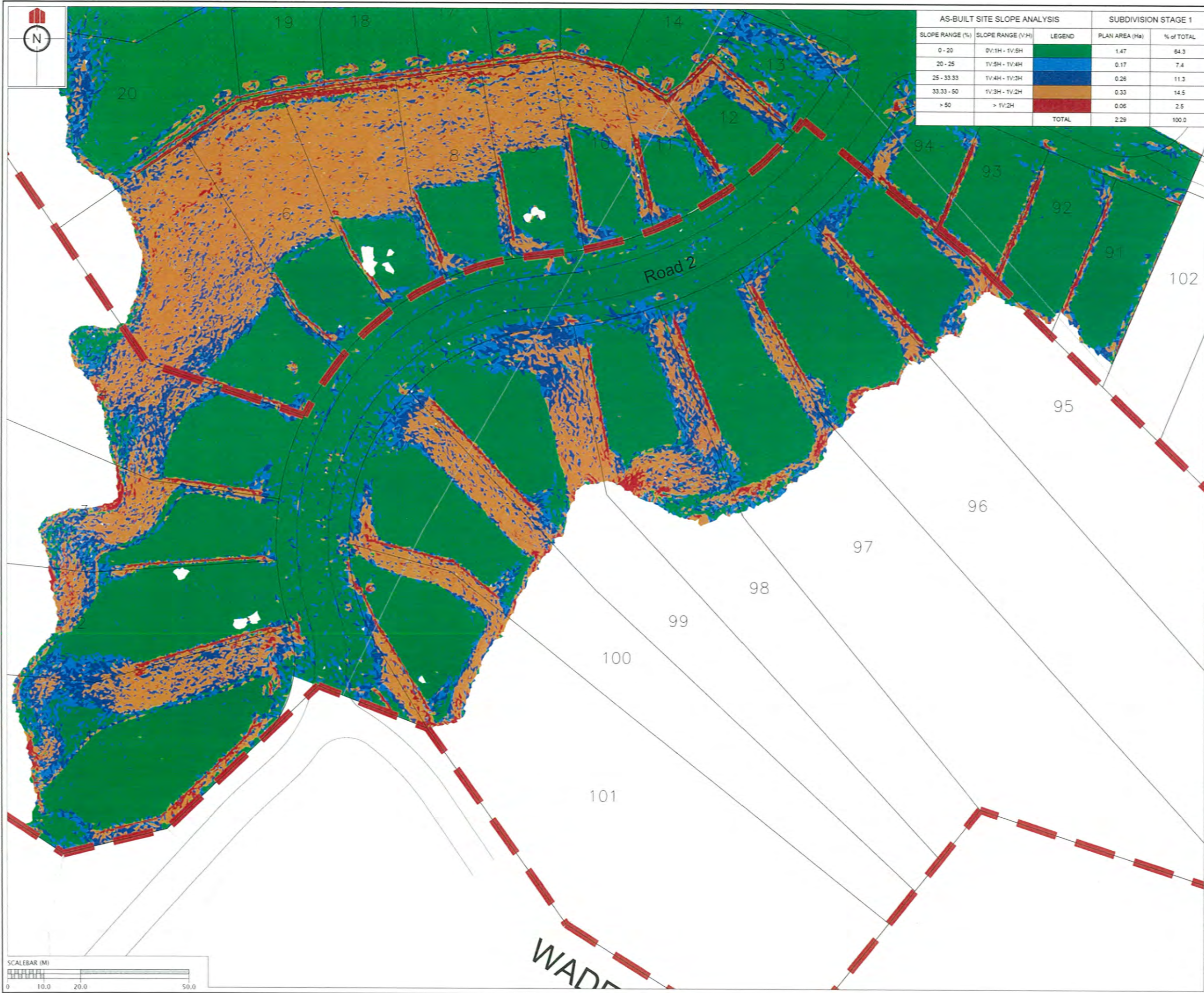
KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - PALISADE WALL PLAN - STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWC. NO: 60356-1-2A-GCR-160	REV: 1



c:\60356 Karepiro Development\Project Data\Acad Drawings\As-Built\Stage 1&2\GCR\60356-1-2A-GCR-170 SLOPES.dwg, 20/10/2014 12:29:09 p.m.



AS-BUILT SITE SLOPE ANALYSIS			SUBDIVISION STAGE 1	
SLOPE RANGE (%)	SLOPE RANGE (V:H)	LEGEND	PLAN AREA (Ha)	% of TOTAL
0 - 20	0V:1H - 1V:5H	Green	1.47	84.3
20 - 25	1V:5H - 1V:4H	Blue	0.17	7.4
25 - 33.33	1V:4H - 1V:3H	Orange	0.26	11.3
33.33 - 50	1V:3H - 1V:2H	Red	0.33	14.5
> 50	> 1V:2H	Red	0.06	2.5
TOTAL			2.29	100.0

REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, *William Clary* LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *William Clary*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - LAND GRADIENTS BASED ON PILBROW LIDAR SURFACE

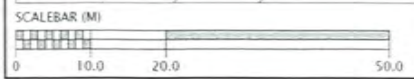
LEGEND
 CIVIL STAGE EXTENTS



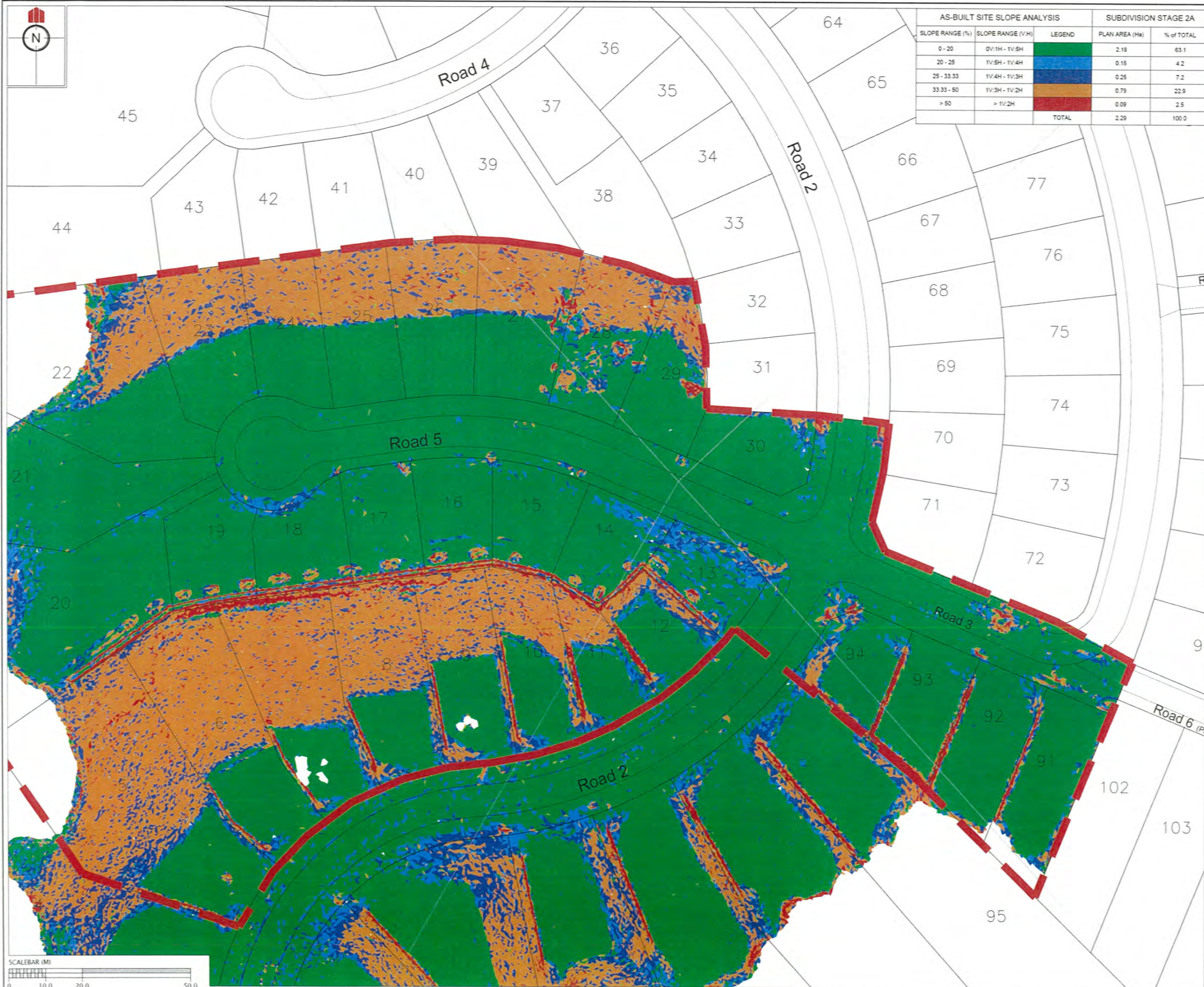
**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - LAND GRADIENTS
 STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWC. NO. 60356-1-2A-GCR-170	REV. 1



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AS-BUILT SITE SLOPE ANALYSIS			SUBDIVISION STAGE 2A	
SLOPE RANGE (%)	SLOPE RANGE (V:H)	LEGEND	PLAN AREA (Ha)	% of TOTAL
0 - 20	0V:1H - 1V:5H	■	2.18	83.1
20 - 25	1V:5H - 1V:4H	■	0.15	4.2
25 - 33.33	1V:4H - 1V:3H	■	0.25	7.2
33.33 - 50	1V:3H - 1V:2H	■	0.79	22.9
> 50	> 1V:2H	■	0.09	2.5
TOTAL			2.29	100.0

REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, William Cheng, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY
 - LAND GRADIENTS BASED ON PILBROW LIDAR SURFACE

LEGEND

- - - CIVIL STAGE EXTENTS



KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - LAND GRADIENTS STAGE 2A
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWG. NO: 60356-1-2A-GCR-171	REV: 1

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REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
William Cheung LICENSED CADASTRAL SURVEYOR.
 HEREBY CERTIFY THE ACCURACY OF THIS AS-BUILT INFORMATION.
 SIGNED: *W.C.*
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION
 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6
 3. ALL SPLAYPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 5. ALL PIPES LAID, INCLUDING SERVICE CONNECTIONS ARE TRENCHED UNLESS NOTED OTHERWISE
 6. ALL 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE
 7. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmD.
 8. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY

LEGEND

AS-BUILT STORMWATER	
AS-BUILT SANITARY SEWER	
AS-BUILT PRIVATE DRAINAGE	
HORIZONTAL BEND	
SINGLE SPLAY PIT	
DOUBLE SPLAY PIT	

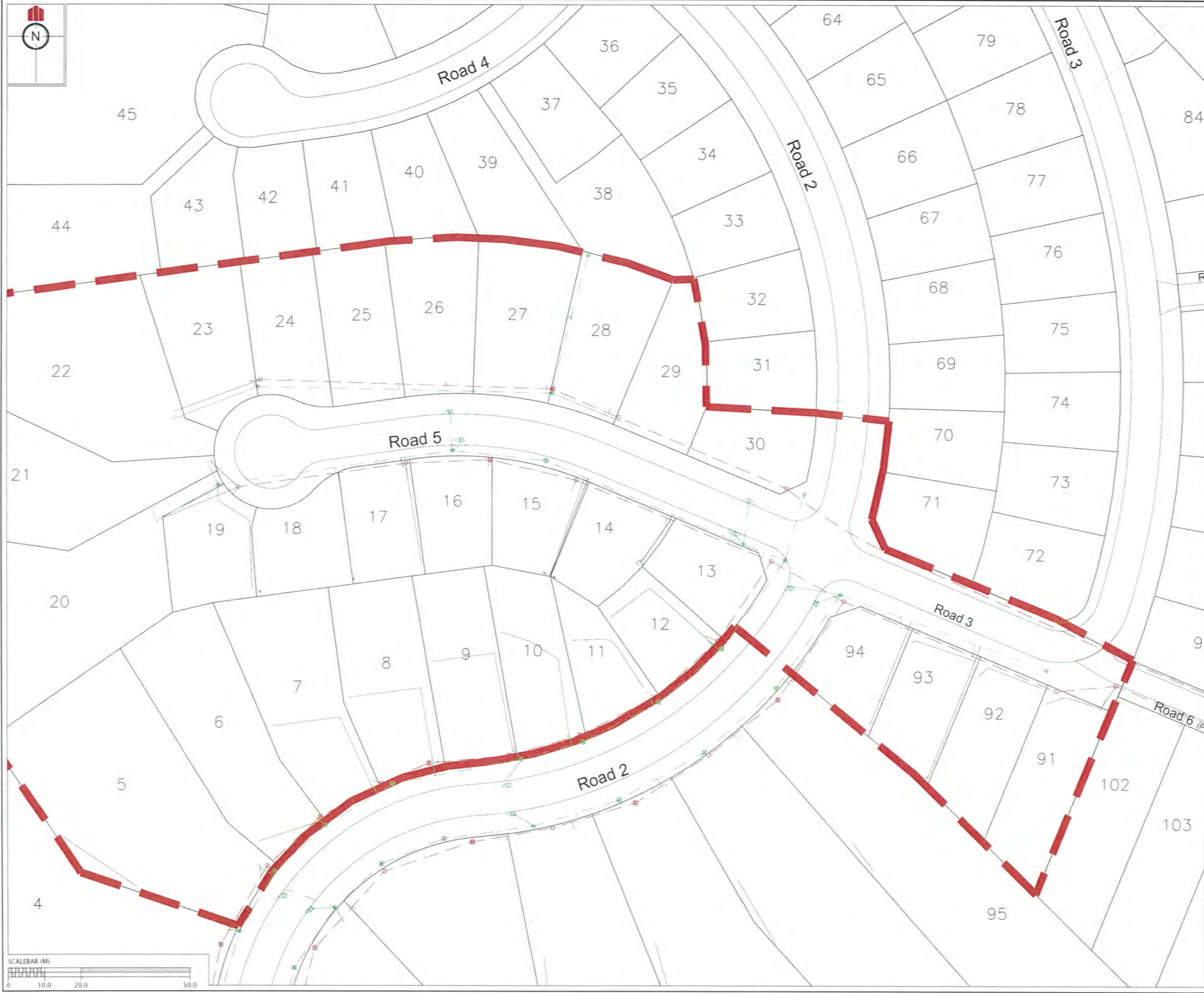


KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - SW & SS DRAINAGE STAGE 1
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWC. NO. 60356-1-2A-GCR-300	REV. 1

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REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	06/10/14

CERTIFICATION
 I, William Chen, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 20/10/14

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6.
 - ALL SPLAYPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PIPES LAID, INCLUDING SERVICE CONNECTIONS ARE TRENCHED UNLESS NOTED OTHERWISE.
 - ALL 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
 - ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mm DIA.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

AS-BUILT STORMWATER	
AS-BUILT SANITARY SEWER	
AS-BUILT PRIVATE DRAINAGE	
HORIZONTAL BEND	
SINGLE SPLAY PIT	
DOUBLE SPLAY PIT	

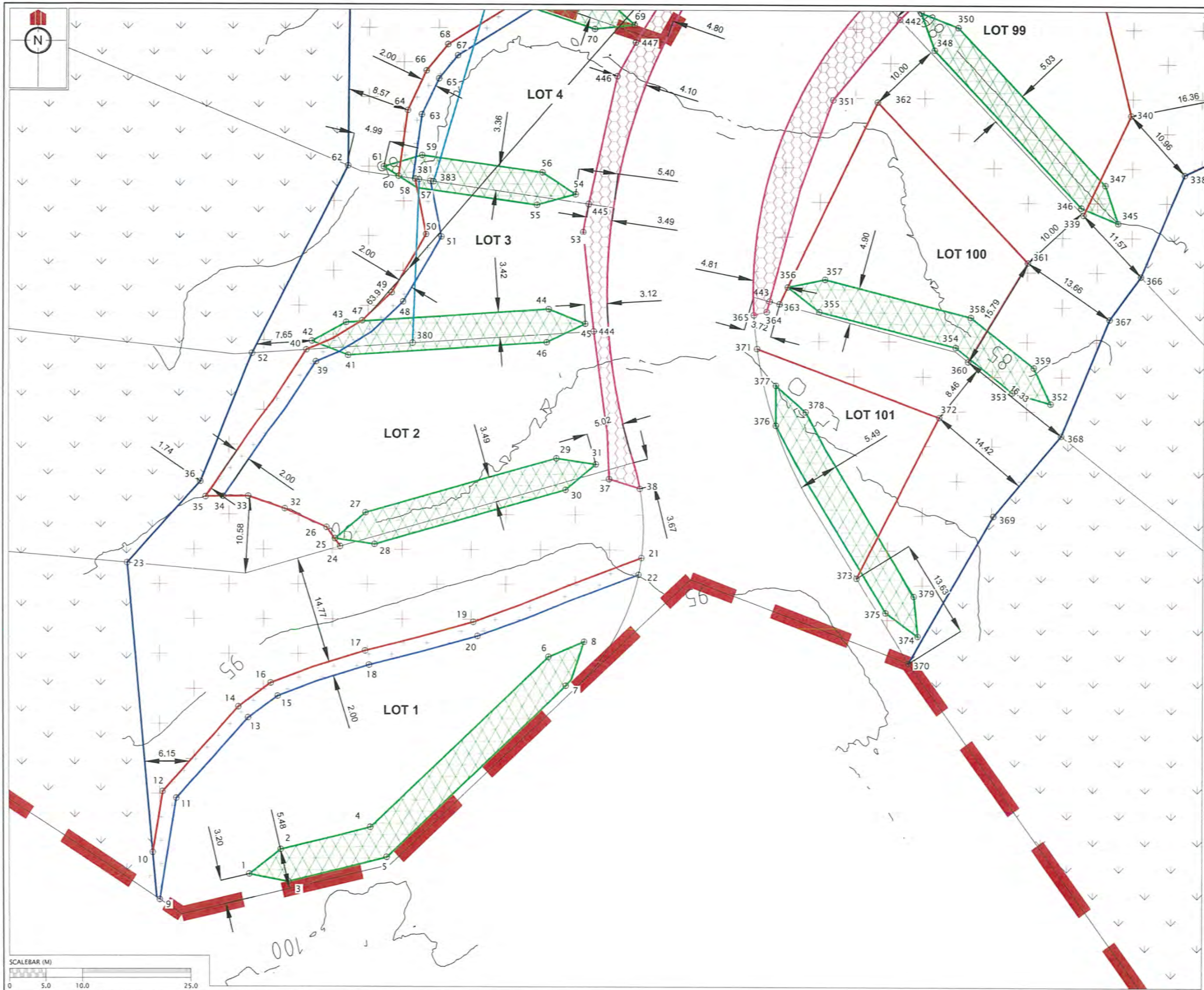


**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - SW & SS DRAINAGE
 STAGE 2A

AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: 06/10/14	
DWC. NO: 60356-1-2A-GCR-301	REV: 1



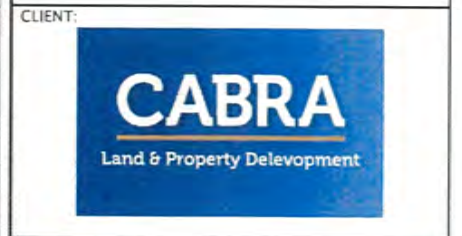
REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	17/10/14
2. DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
 I, *W. J. [Signature]* LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *[Signature]*
 LICENSED CADASTRAL SURVEYOR
 DATE: 24/04/15

NOTES
 1. HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 2. COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 3. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

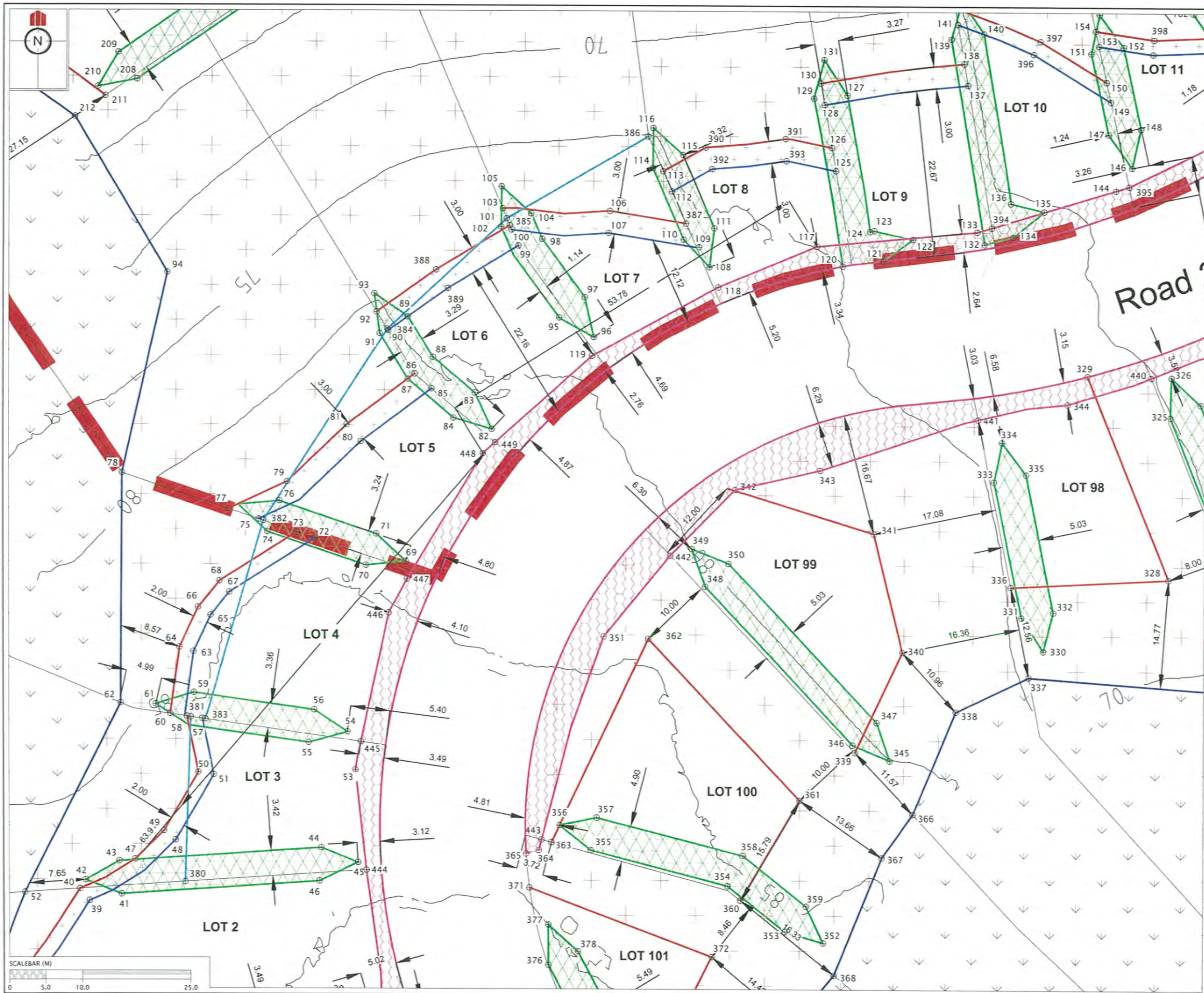
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	SERVICE LINE RESTRICTIONS
	LEADING EDGE PILE ZONE
	SPECIFIC DESIGN ZONE (SLOPE)
	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
	BUSH COVENANT / NO BUILD ZONE
	BUILDING HIGH RESTRICTIONS ZONE



**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - BUILDING
 RESTRICTIONS
 STAGES 1 & 2A (SHEET 1 OF 9)
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:500 @ A3
ISSUED: 17/10/14	
DWG. NO. 60356-1-2A-GCR-200	REV. 2



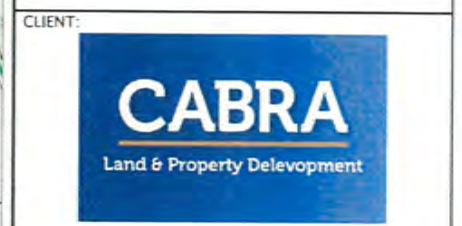
REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	17/10/14
2.	DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
 I, Walter Chy LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 24/4/15

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	SPECIFIC DESIGN ZONE (RETAINING)
	SERVICE LINE RESTRICTIONS
	LEADING EDGE PILE ZONE
	SPECIFIC DESIGN ZONE (SLOPE)
	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
	BUSH COVENANT / NO BUILD ZONE
	BUILDING HEIGHT RESTRICTIONS ZONE

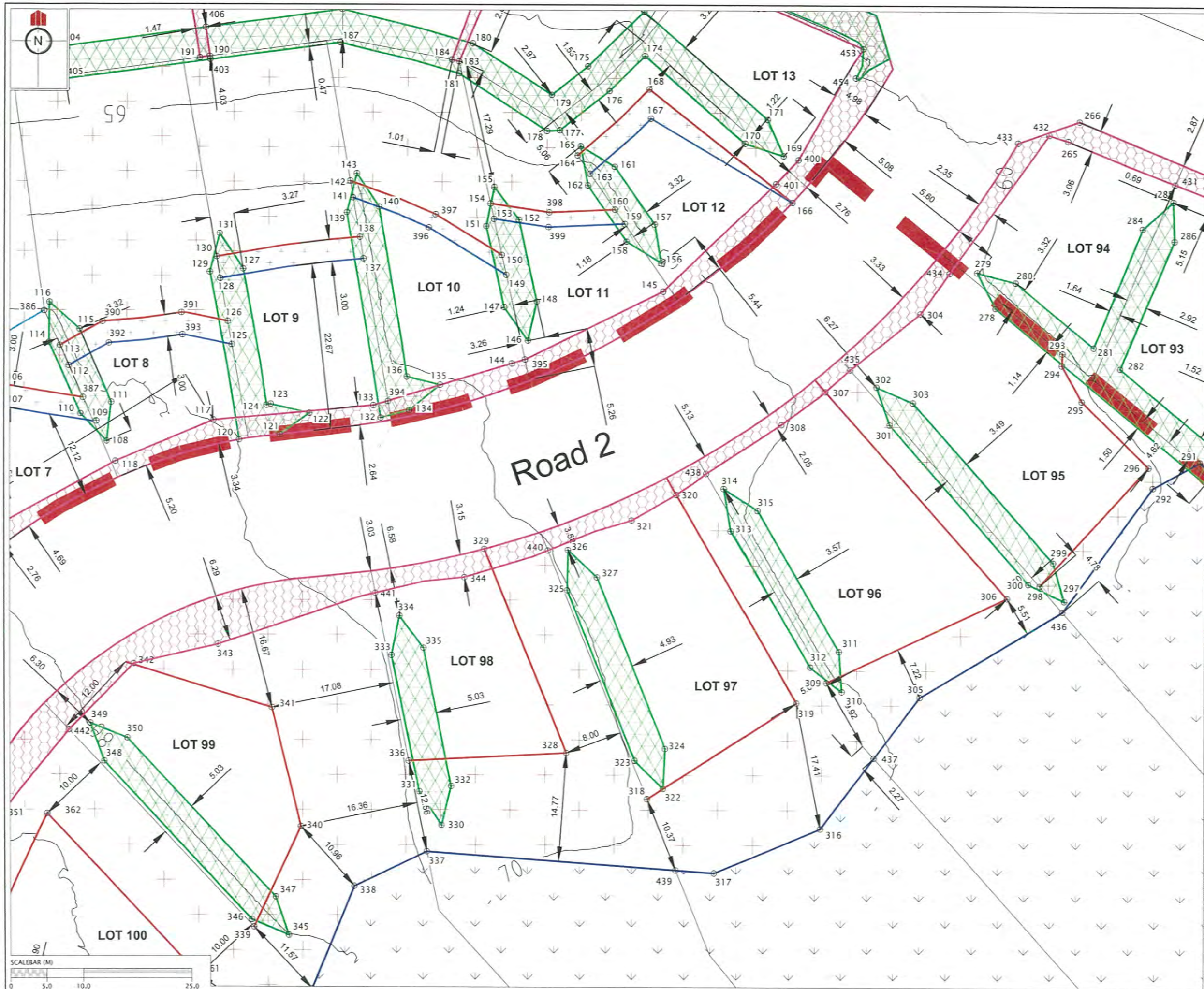


**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

**GCR PLANS - BUILDING
 RESTRICTIONS
 STAGES 1 & 2A (SHEET 2 OF 9)**

AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:500 @ A3
ISSUED: 17/10/14	
DWG. NO. 60356-1-2A-GCR-201	REV. 2



REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	17/10/14
2. DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
 I, *[Signature]* LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *[Signature]*
 LICENSED CADASTRAL SURVEYOR
 DATE: 24/4/15

NOTES
 1. HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 2. COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN
 CIRCUIT
 3. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

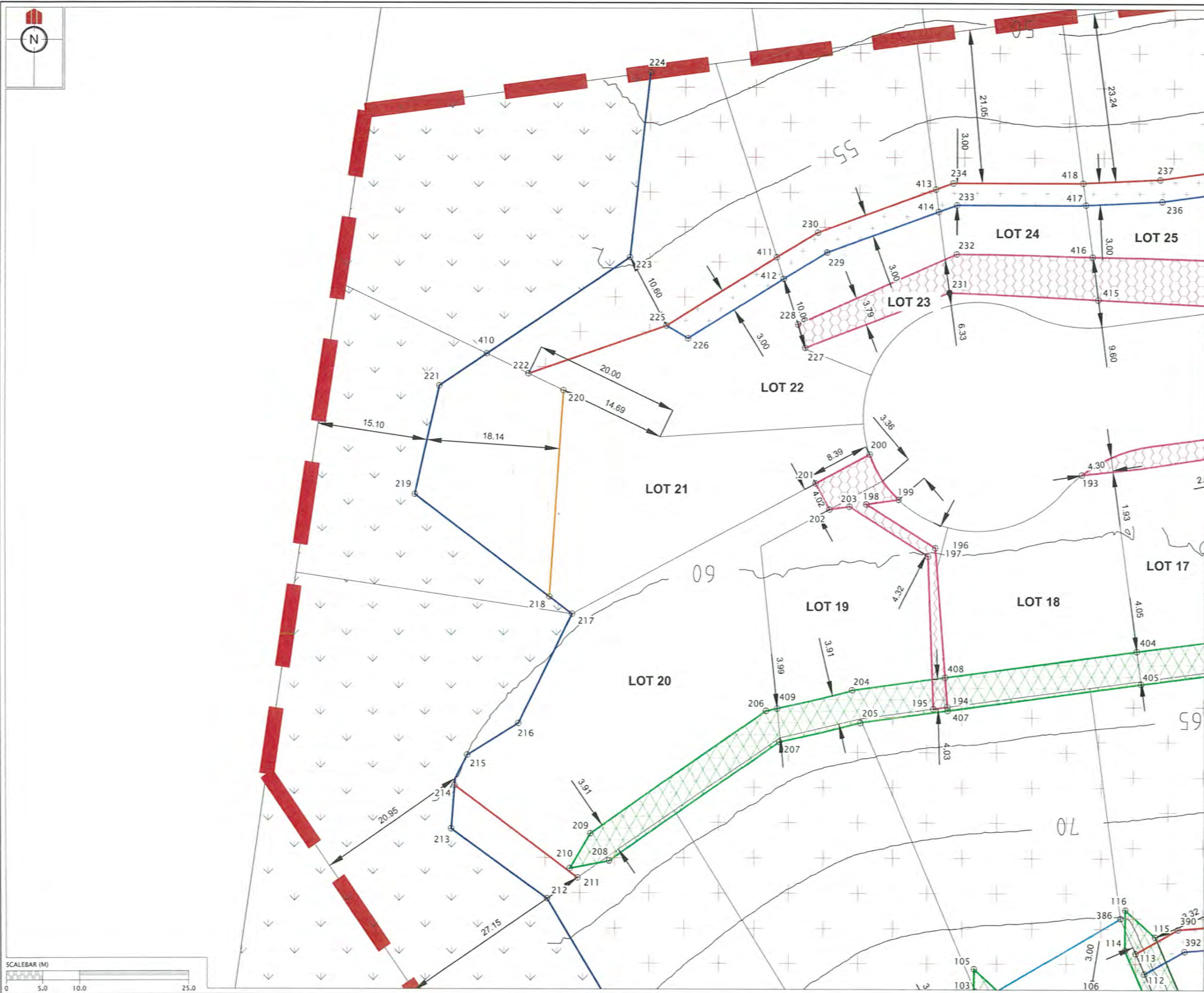
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	SERVICE LINE RESTRICTIONS
	LEADING EDGE PILE ZONE
	SPECIFIC DESIGN ZONE (SLOPE)
	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
	BUSH COVENANT / NO BUILD ZONE
	BUILDING HEIGHT RESTRICTIONS ZONE

CLIENT:

**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - BUILDING
 RESTRICTIONS
 STAGES 1 & 2A (SHEET 3 OF 9)
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:500 @ A3
ISSUED: 17/10/14	
DWG. NO. 60356-1-2A-GCR-202	REV. 2



REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	17/10/14
2. DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
 I, William Woods LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 24/4/15

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

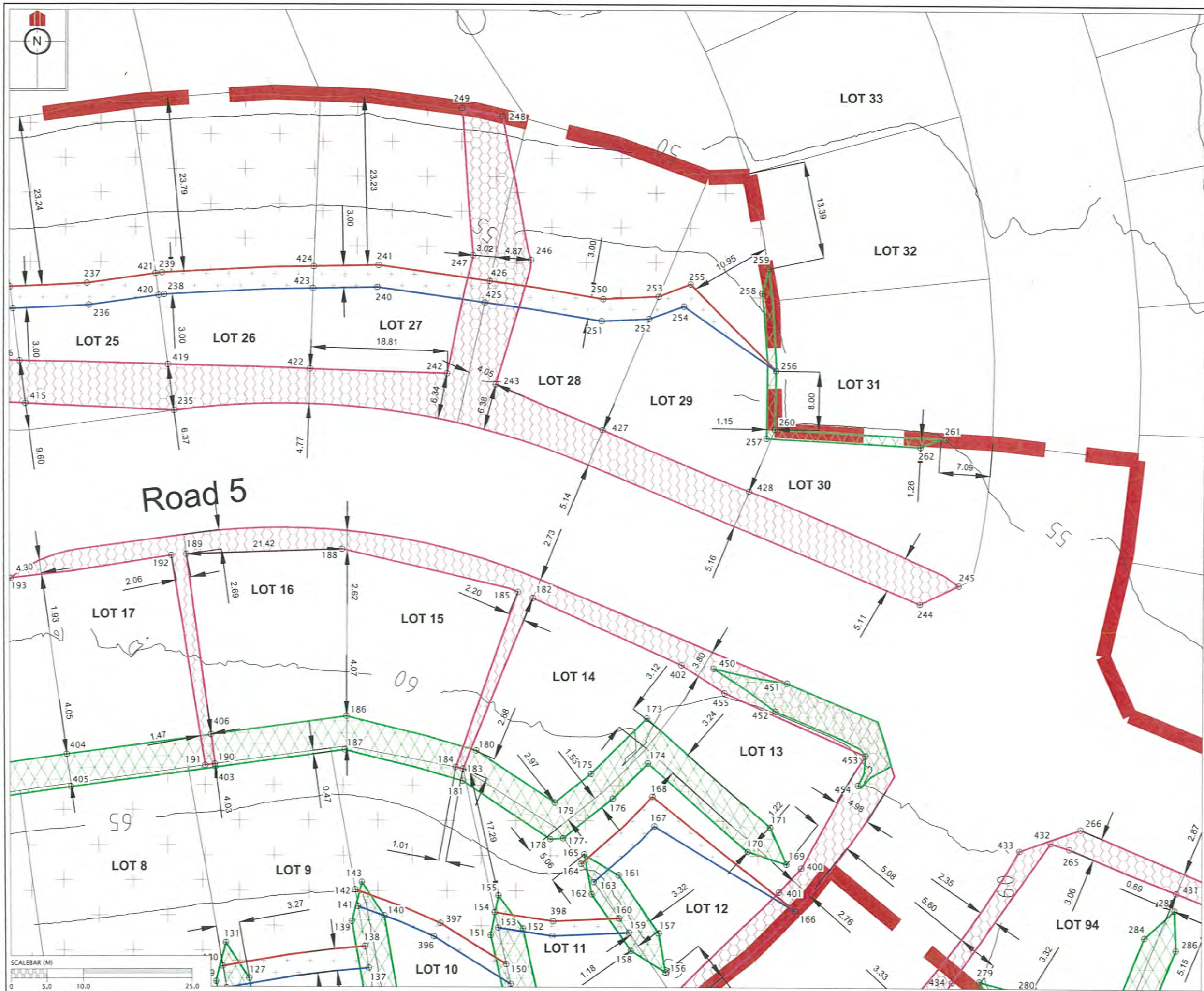
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	SERVICE LINE RESTRICTIONS
	LEADING EDGE PILE ZONE
	SPECIFIC DESIGN ZONE (SLOPE)
	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
	BUSH COVENANT / NO BUILD ZONE
	BUILDING HEIGHT RESTRICTIONS ZONE

CLIENT:

KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - BUILDING RESTRICTIONS STAGES 1 & 2A (SHEET 3 OF 9)
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:500 @ A3
ISSUED: 17/10/14	
DWG. NO. 60356-1-2A-GCR-203	REV. 2



REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	17/10/14
2. DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
William Woods LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *[Signature]*
 LICENSED CADASTRAL SURVEYOR
 DATE: 24/04/15

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

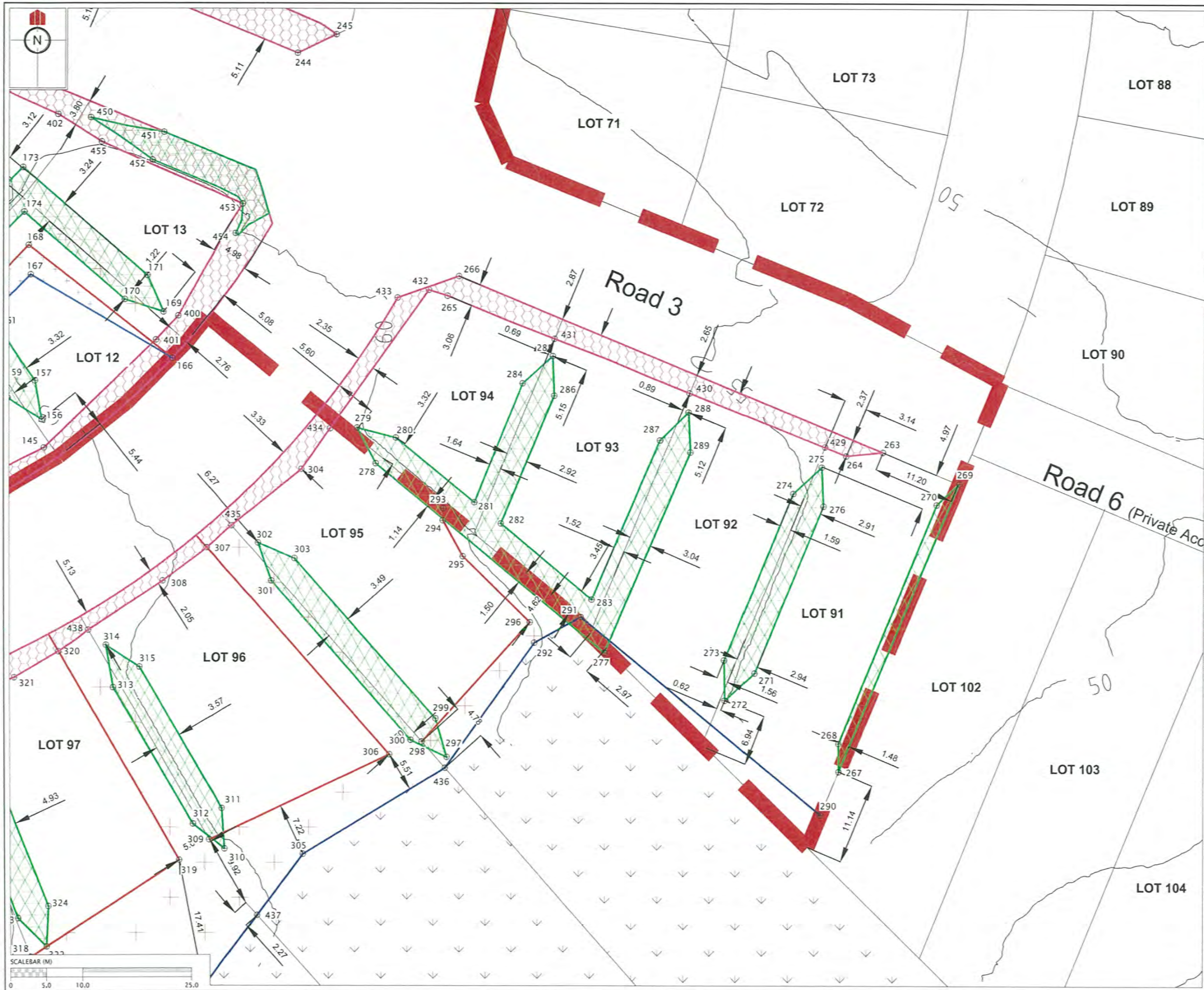
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	SPECIFIC DESIGN ZONE (RETAINING)
	SERVICE LINE RESTRICTIONS
	LEADING EDGE PILE ZONE
	SPECIFIC DESIGN ZONE (SLOPE)
	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
	BUSH COVENANT / NO BUILD ZONE
	BUILDING HEIGHT RESTRICTIONS ZONE

CLIENT:

KAREPIRO DEVELOPMENT STAGES 1 & 2A

GCR PLANS - BUILDING RESTRICTIONS
 STAGES 1 & 2A (SHEET 5 OF 9)
 AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BP
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:500 @ A3
ISSUED: 17/10/14	
DWC. NO. 60356-1-2A-GCR-204	REV. 2



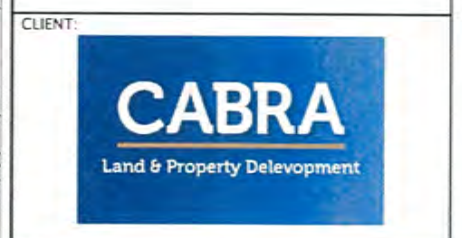
REVISION DETAILS	NAME	DATE
1. ISSUED FOR GCR	BP	17/10/14
2. DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
 I, *William Clary*, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: *myl*
 LICENSED CADASTRAL SURVEYOR
 DATE: *24/4/15*

- NOTES**
- HEIGHTS ARE IN TERMS OF AUCKLAND DATUM 1946
 - COORDINATES ARE IN TERMS OF NZGD2000 MOUNT EDEN CIRCUIT
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

	CONTOURS (1.0m INTERVAL)
	SPECIFIC DESIGN ZONE (RETAINING)
	SERVICE LINE RESTRICTIONS
	LEADING EDGE PILE ZONE
	SPECIFIC DESIGN ZONE (SLOPE)
	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
	BUSH COVENANT / NO BUILD ZONE
	BUILDING HIGH RESTRICTIONS ZONE

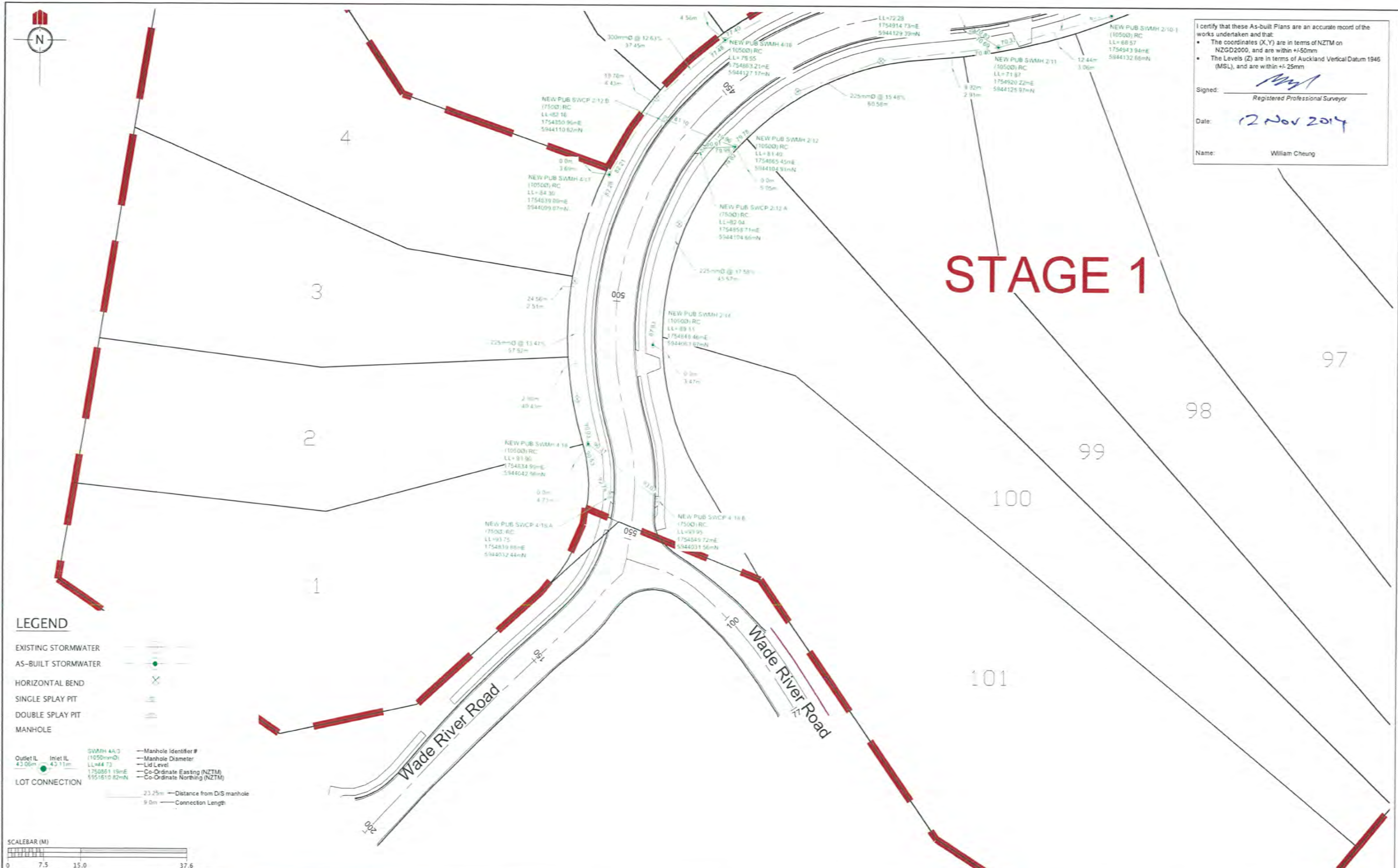


**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

GCR PLANS - BUILDING
 RESTRICTIONS
 STAGES 1 & 2A (SHEET 6 OF 9)

AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR GCR
CHECKED: BP	DRAWN: BP
APPROVED: WOODS	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:500 @ A3
ISSUED: 17/10/14	
DWG. NO. 60356-1-2A-GCR-205	REV. 2



I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000, and are within +50mm
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/- 25mm

Signed: *William Cheung*
 Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

STAGE 1

LEGEND

- EXISTING STORMWATER
 - AS-BUILT STORMWATER
 - HORIZONTAL BEND
 - SINGLE SPLAY PIT
 - DOUBLE SPLAY PIT
 - MANHOLE
- 300MM 4x3 — Manhole Identifier #
 10500 RC — Manhole Diameter
 LL=82.73 — Lid Level
 1750551 19mE — Co-Ordinate Easting (NZTM)
 5951510 82mN — Co-Ordinate Northing (NZTM)
- Outlet IL 43.06m — Distance from D/S manhole
 Inlet IL 43.11m — Connection Length



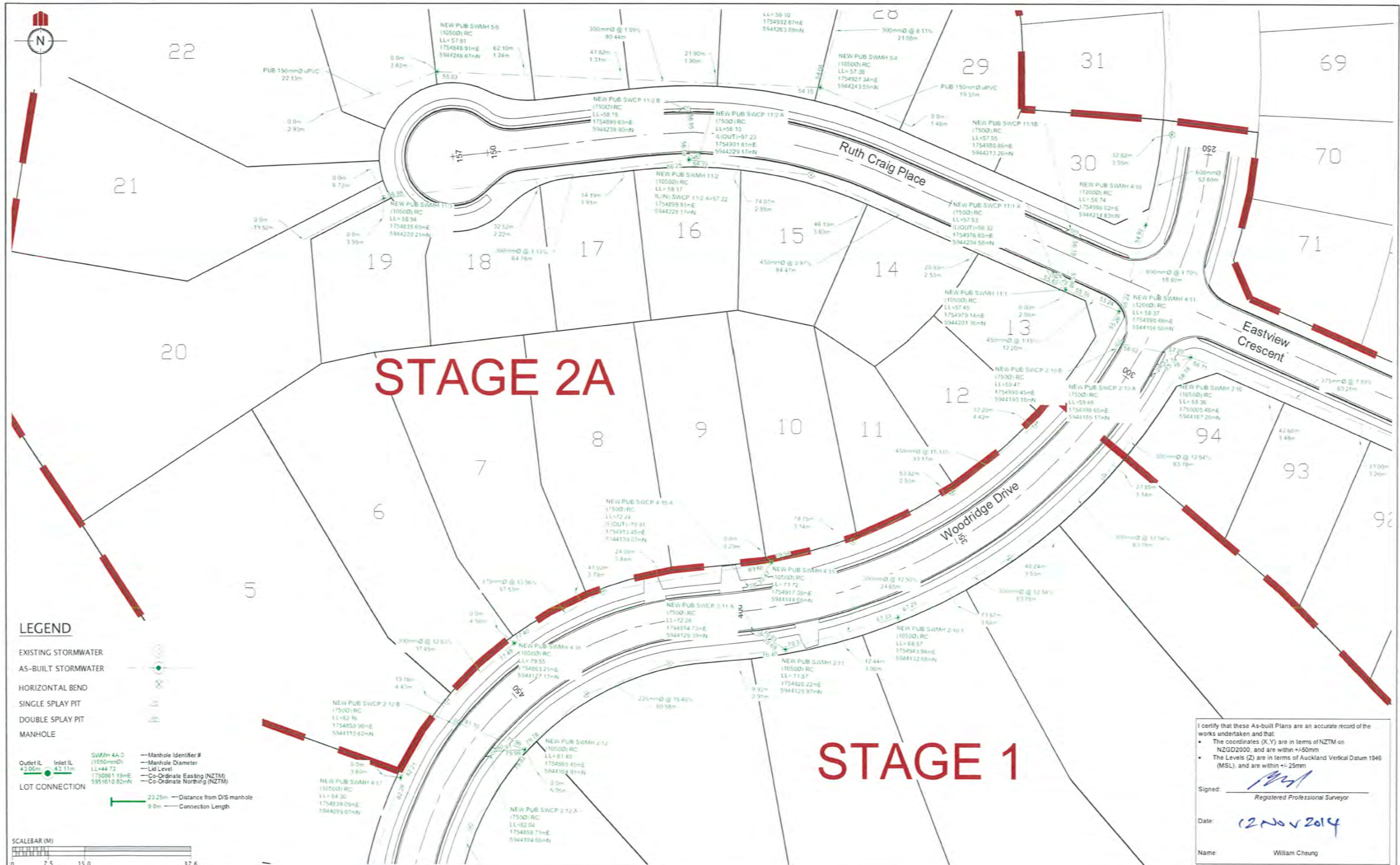
REVISION DETAILS	NAME	DATE	CLIENT
1. ISSUED FOR AS-BUILT	TH	NOV 2014	



KAREPIRO DEVELOPMENT – STAGES 1 & 2A
 STORMWATER AS-BUILT PLAN
 (SHEET 1 OF 8)
 AUCKLAND COUNCIL



DESIGNED: BP	ISSUED FOR AS-BUILT
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1&2A-AB-301	REV. 1



STAGE 2A

STAGE 1

LEGEND

- EXISTING STORMWATER
 - AS-BUILT STORMWATER
 - HORIZONTAL BEND
 - SINGLE SPLAY PIT
 - DOUBLE SPLAY PIT
 - MANHOLE
- SWMH 4A.3
 Outlet IL 43.05m
 Inlet IL 43.11m
 LL=44.72
 175085.19mE
 5951610.82mN
- Manhole Identifier #
 Manhole Diameter
 Lid Level
 Co-Ordinate Easting (NZTM)
 Co-Ordinate Northing (NZTM)
- Distance from D/S manhole
 Connection Length

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000, and are within +50mm
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/- 25mm

Signed: *[Signature]*
Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

REVISION DETAILS	NAME	DATE	CLIENT
1. ISSUED FOR AS-BUILT	TH	NOV 2014	



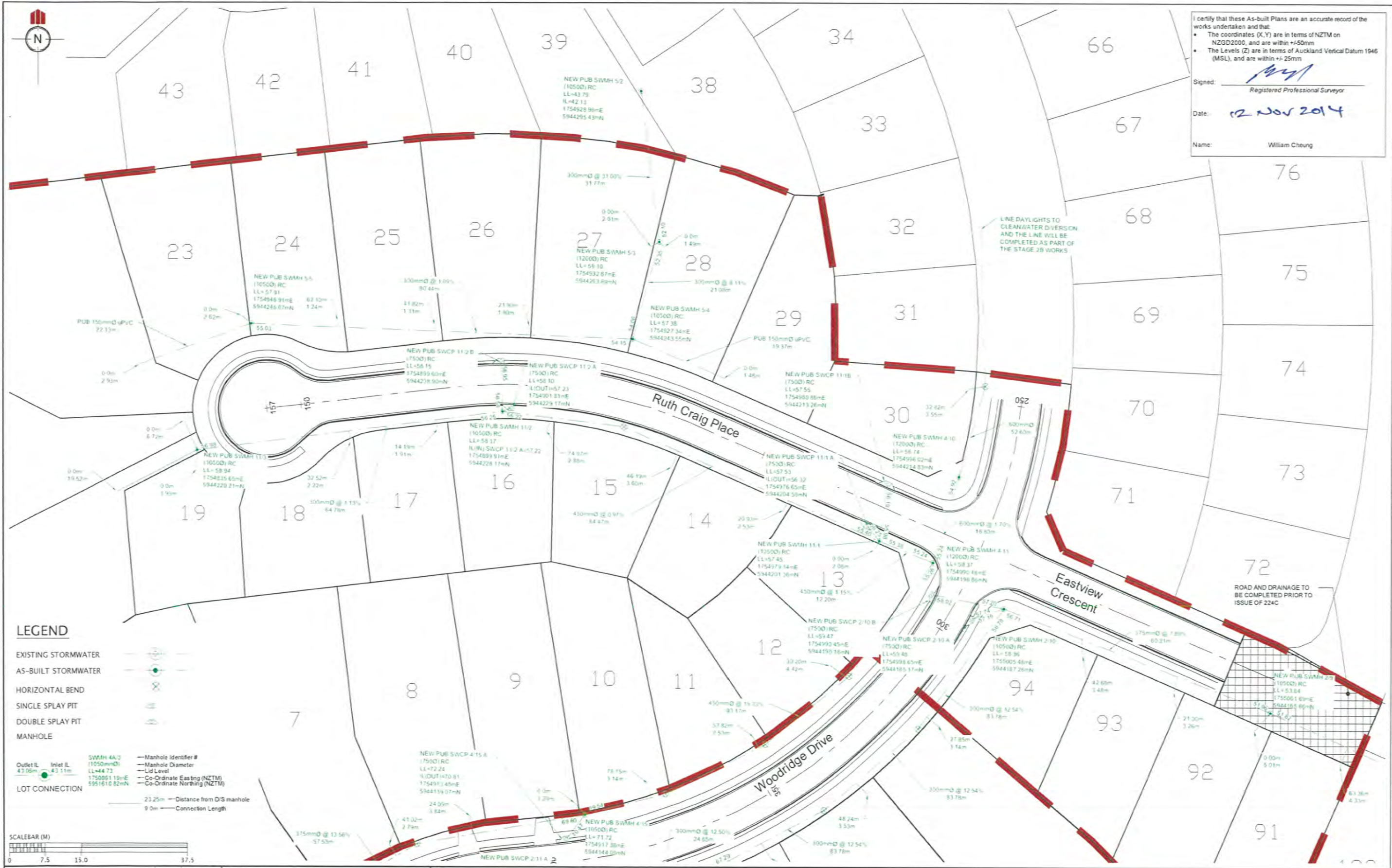
KAREPIRO DEVELOPMENT - STAGES 1 & 2A

STORMWATER AS-BUILT PLAN
(SHEET 2 OF 8)

AUCKLAND COUNCIL



DESIGNED:	ISSUED FOR AS-BUILT
BP	
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1&2A-AB-302	REV. 1



I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000, and are within +/-50mm
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/-25mm

Signed: *[Signature]*
Registered Professional Surveyor

Date: 12 Nov 2014

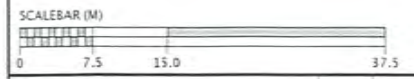
Name: William Cheung

LEGEND

EXISTING STORMWATER
AS-BUILT STORMWATER
HORIZONTAL BEND
SINGLE SPLAY PIT
DOUBLE SPLAY PIT
MANHOLE

Outlet IL 43.08m Inlet IL 43.11m
SWMH 4A/3 (10500) RC LL=44.73 1750851 19m+E 5951610 82m+N
— Manhole Identifier #
— Manhole Diameter
— Lid Level
— Co-Ordinate Easting (NZTM)
— Co-Ordinate Northing (NZTM)

LOT CONNECTION
23.25m — Distance from D/S manhole
9.0m — Connection Length



REVISION DETAILS	NAME	DATE	CLIENT
1. ISSUED FOR AS-BUILT	TH	NOV 2014	



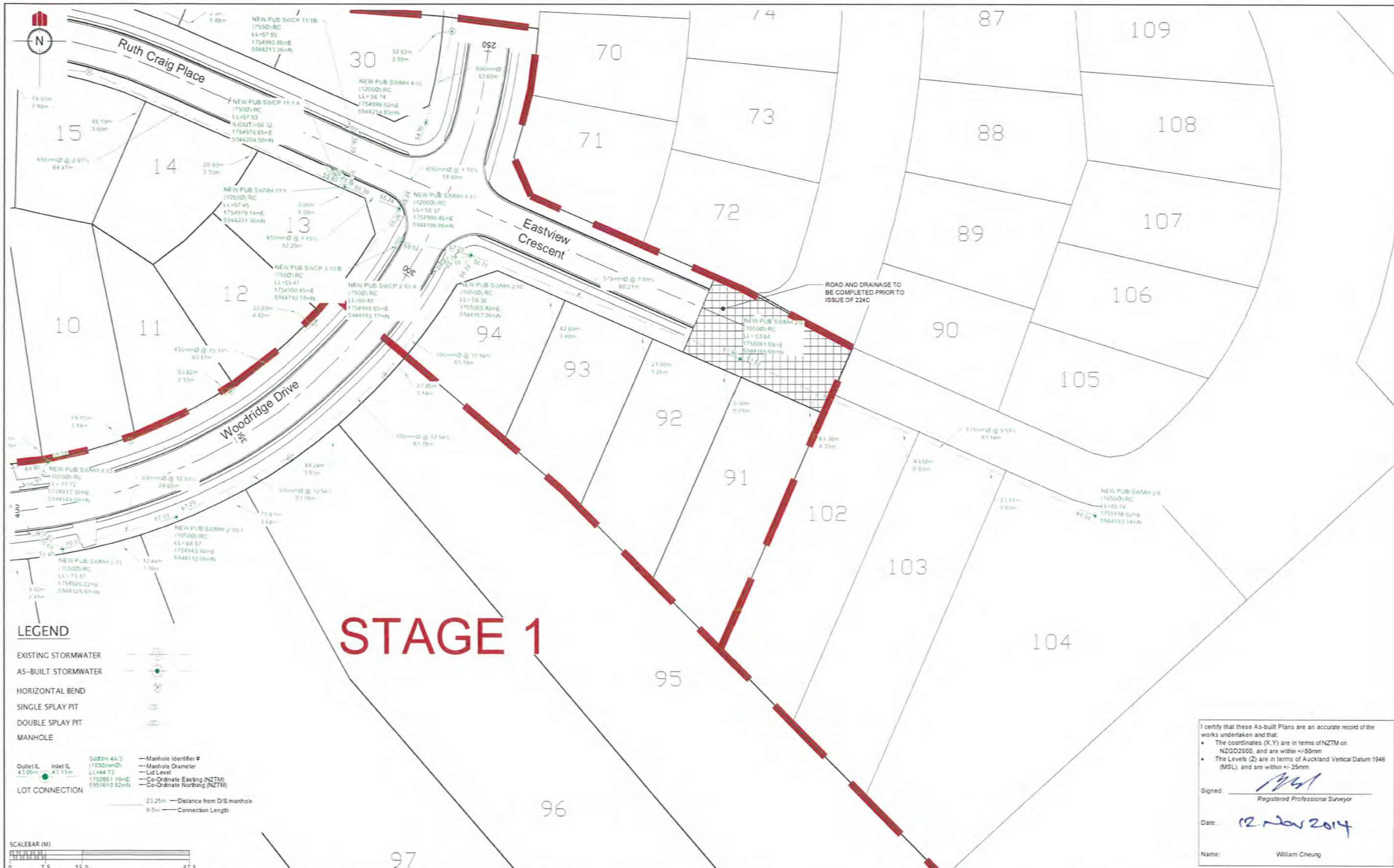
KAREPIRO DEVELOPMENT - STAGES 1 & 2A

STORMWATER AS-BUILT PLAN
(SHEET 3 OF 8)

AUCKLAND COUNCIL



DESIGNED:	ISSUED FOR AS-BUILT
BP	
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1&2A-AB-303	REV. 1



STAGE 1

LEGEND

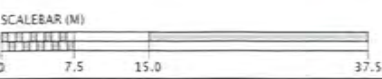
EXISTING STORMWATER
 AS-BUILT STORMWATER
 HORIZONTAL BEND
 SINGLE SPLAY PIT
 DOUBLE SPLAY PIT
 MANHOLE

Outlet IL 43.00m
 Inlet IL 42.11m

SWMH 4A3
 (1050mm Ø)
 LL=44.73
 1750561 18mE
 5951610 82mN

Manhole Identifier #
 Manhole Diameter
 Lid Level
 Co-Ordinate Easting (NZTM)
 Co-Ordinate Northing (NZTM)

LOT CONNECTION
 23.25m — Distance from D/S manhole
 8.0m — Connection Length



I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000, and are within +/-50mm
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/- 25mm

Signed: *William Cheung*
 Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

REVISION DETAILS	NAME	DATE	CLIENT:
1. ISSUED FOR AS-BUILT	TH	NOV 2014	



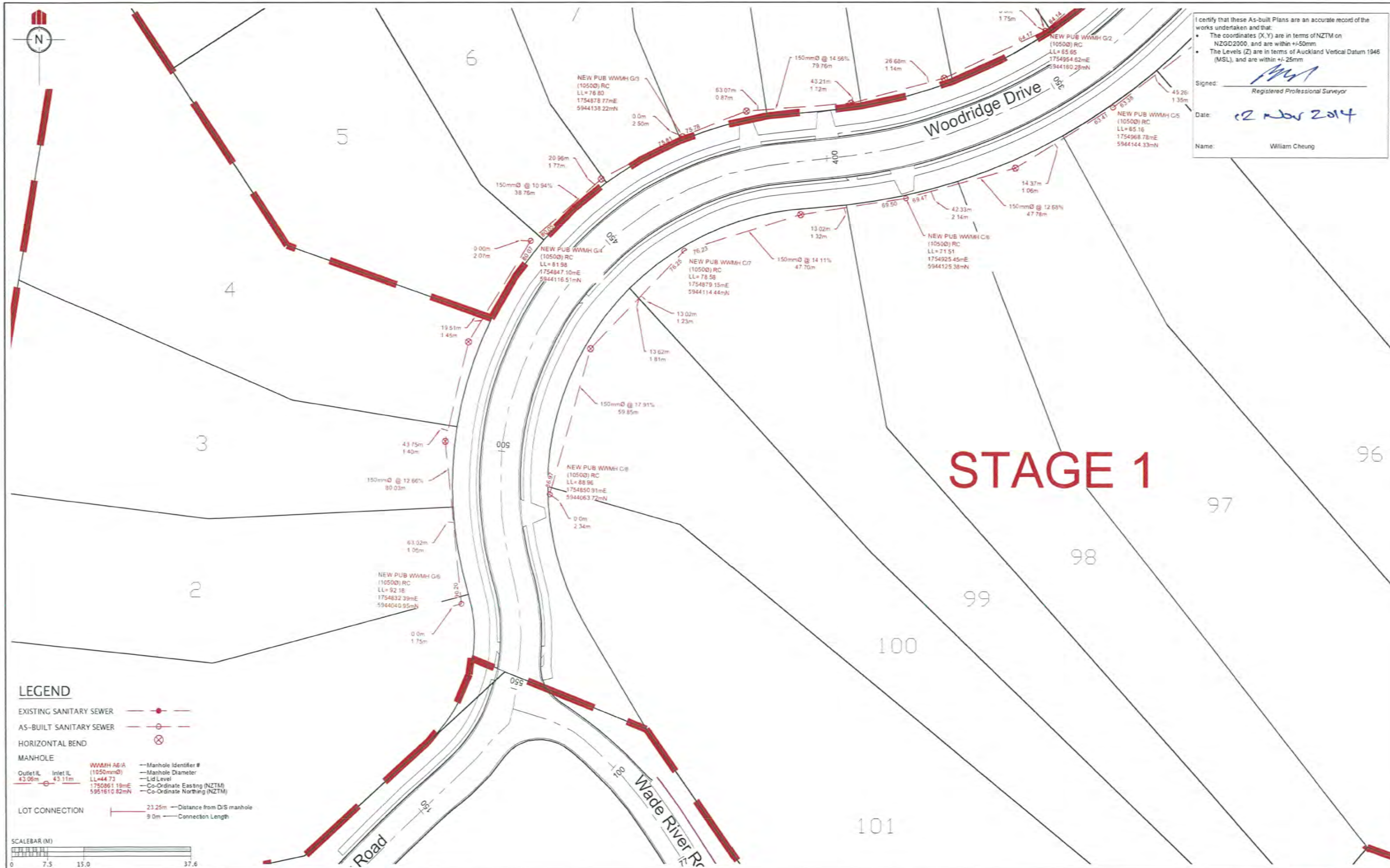
KAREPIRO DEVELOPMENT – STAGES 1 & 2A

STORMWATER AS-BUILT PLAN
 (SHEET 4 OF 8)

AUCKLAND COUNCIL



DESIGNED: BP	ISSUED FOR AS-BUILT
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1&2A-AB-304	REV. 1



STAGE 1

LEGEND

- EXISTING SANITARY SEWER
- AS-BUILT SANITARY SEWER
- HORIZONTAL BEND
- MANHOLE
 - WWMH A&A (1050mmØ) — Manhole Identifier #
 - Manhole Diameter
 - Lid Level
 - Co-Ordinate Easting (NZTM)
 - Co-Ordinate Northing (NZTM)
- LOT CONNECTION
 - 23.25m — Distance from D/S manhole
 - 9.0m — Connection Length

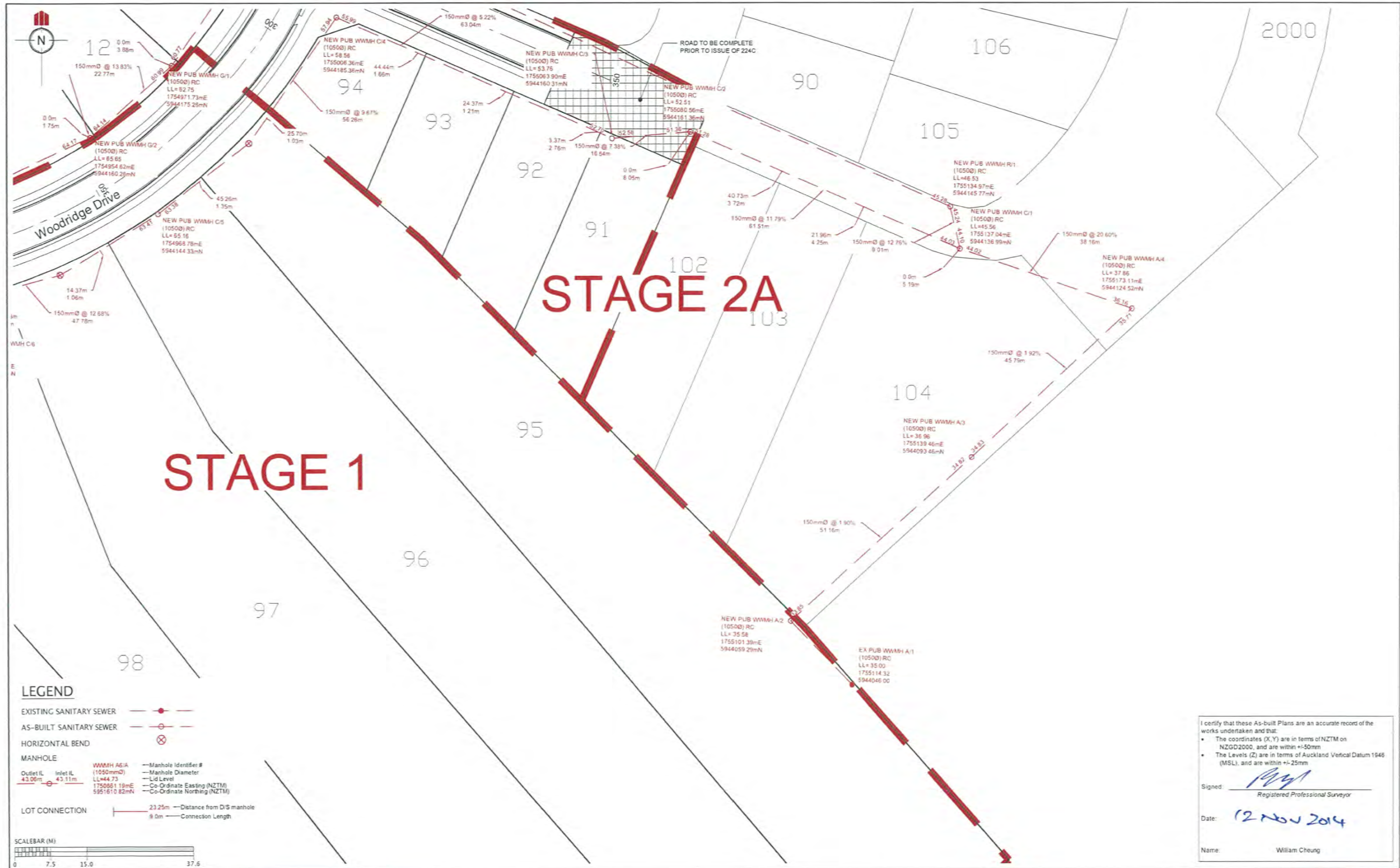


REVISION DETAILS	NAME	DATE	CLIENT:
1. ISSUED FOR AS-BUILT	TH	NOV 2014	

KAREPIRO DEVELOPMENT – STAGES 1 & 2A
 WASTEWATER AS-BUILT PLAN
 (SHEET 5 OF 8)
 AUCKLAND COUNCIL



DESIGNED: BP	ISSUED FOR AS-BUILT
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1&2A-AB-305	REV. 1



LEGEND

EXISTING SANITARY SEWER ———●———

AS-BUILT SANITARY SEWER ———○———

HORIZONTAL BEND ⊗

MANHOLE

Outlet I/L 43.06m Inlet I/L 43.11m

WMMH A1/A (10500) RC — Manhole Identifier #
 LL=44.73 — Manhole Diameter
 1750661 19mE — Lid Level
 5941610 82mN — Co-Ordinate Easting (NZTM)
 — Co-Ordinate Northing (NZTM)

LOT CONNECTION ——— 23.25m — Distance from D/S manhole
 ——— 9.0m — Connection Length



I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000, and are within +/-50mm
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/-25mm

Signed: *William Cheung*
 Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

REVISION DETAILS	NAME	DATE	CLIENT
1. ISSUED FOR AS-BUILT	TH	NOV 2014	



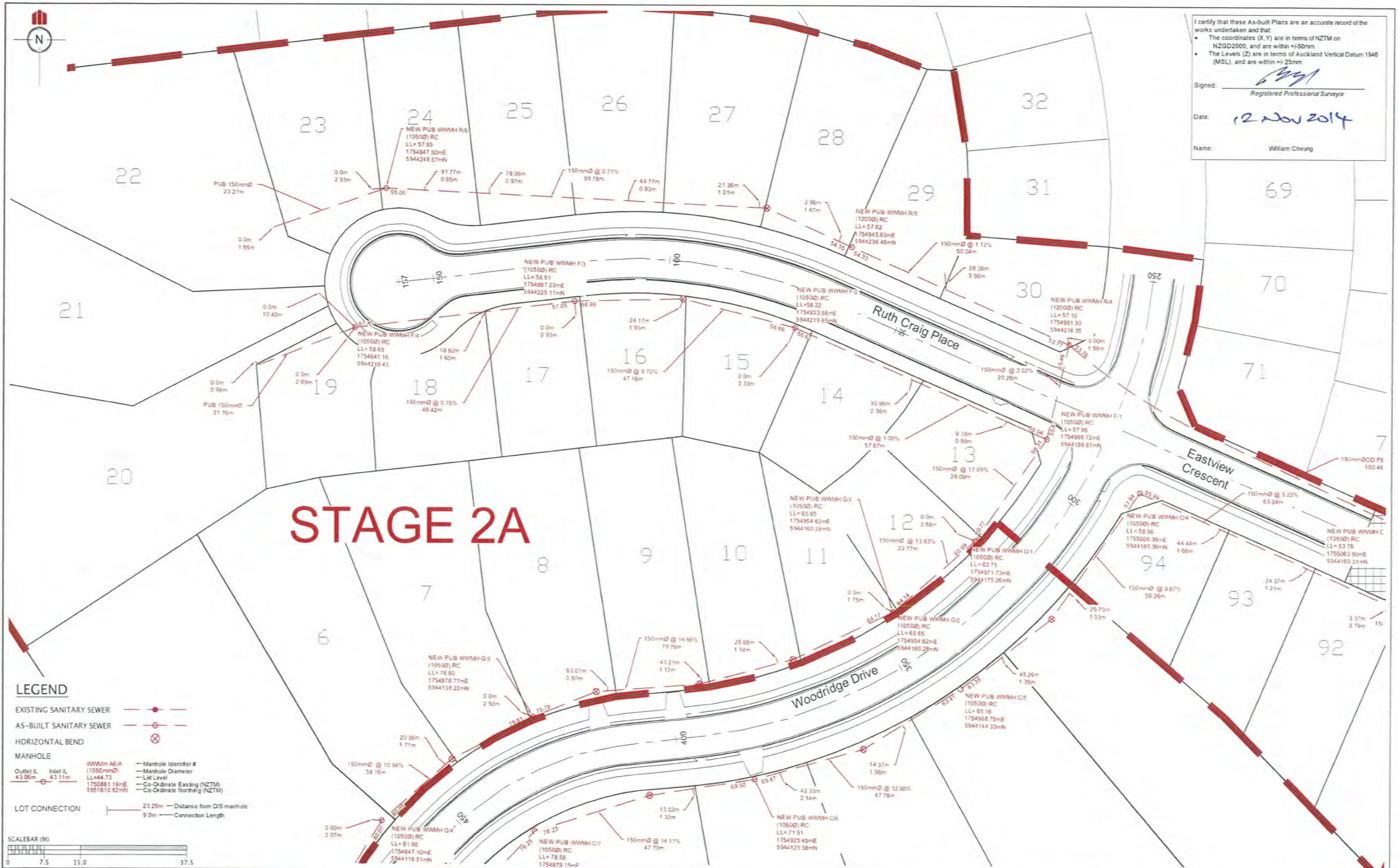
KAREPIRO DEVELOPMENT – STAGES 1 & 2A

WASTEWATER AS-BUILT PLAN
 (SHEET 6 OF 8)

AUCKLAND COUNCIL



DESIGNED: bp	ISSUED FOR AS-BUILT
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWC. NO. 60356-1&2A-AB-306	REV. 1



I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X, Y) are in terms of NZTM on NZGD2000, and are within +/-50mm
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/-25mm

Signed: *[Signature]*
Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

LEGEND

EXISTING SANITARY SEWER ———

AS-BUILT SANITARY SEWER ———

HORIZONTAL BEND ⊗

MANHOLE

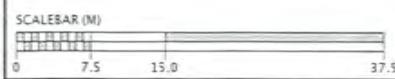
Outlet I.L. (1050mm) RC
43.06m

Inlet I.L. (1050mm) RC
43.11m

WWMH A6/A (1050mm) RC
LL=44.73
1750861.19mE
5951610.82mN

Manhole Identifier #
Manhole Diameter
Lid Level
Co-Ordinate Easting (NZTM)
Co-Ordinate Northing (NZTM)

LOT CONNECTION ——— 23.25m — Distance from D/S manhole
9.0m — Connection Length



REVISION DETAILS	NAME	DATE	CLIENT
1. ISSUED FOR AS-BUILT	TH	NOV 2014	



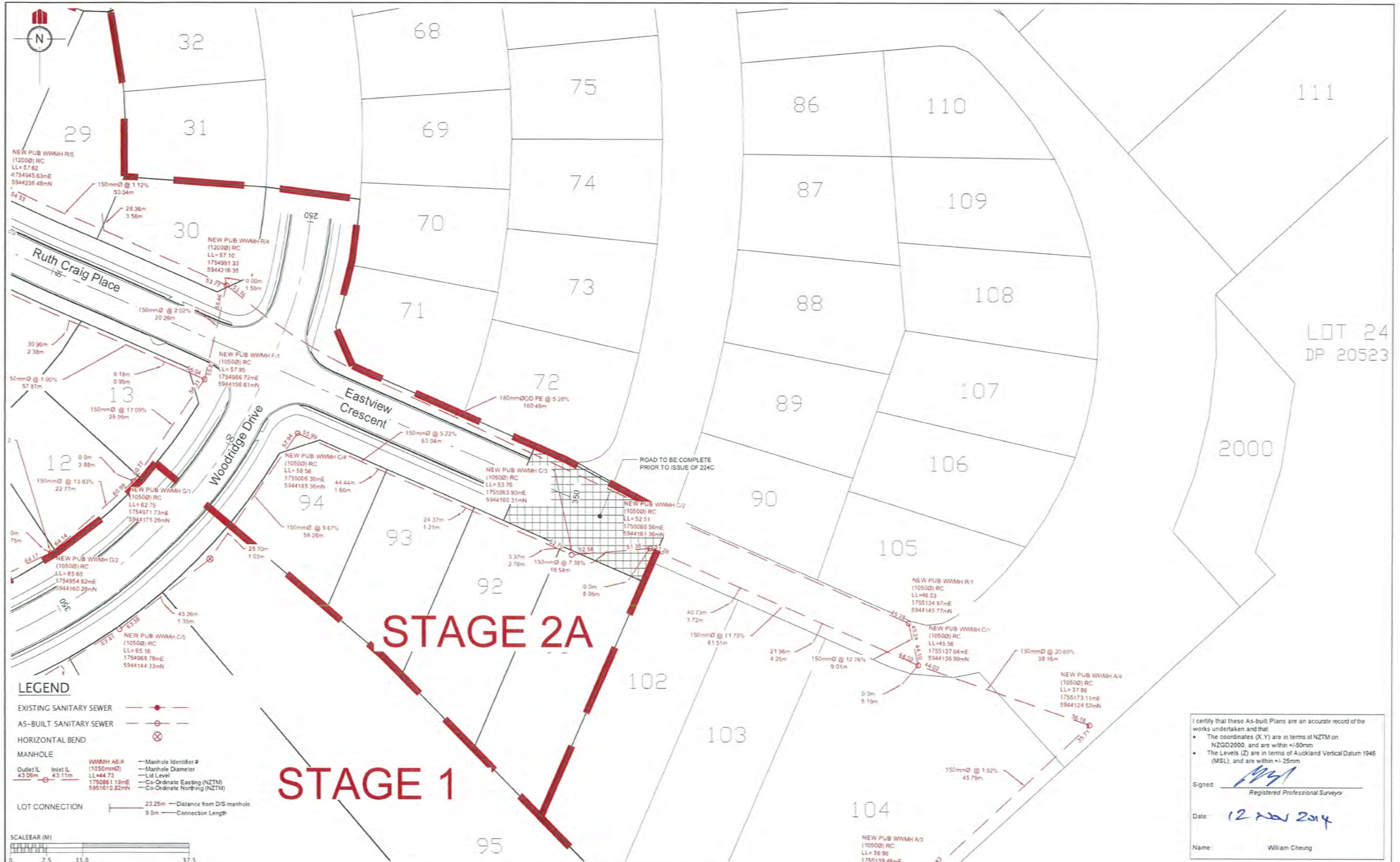
KAREPIRO DEVELOPMENT – STAGES 1 & 2A

WASTEWATER AS-BUILT PLAN
(SHEET 7 OF 8)

AUCKLAND COUNCIL



DESIGNED:	ISSUED FOR AS-BUILT
BP	
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1&2A-AB-307	REV. 1



LOT 24
DP 20523

STAGE 2A

STAGE 1

- LEGEND**
- EXISTING SANITARY SEWER
 - AS-BUILT SANITARY SEWER
 - HORIZONTAL BEND
 - MANHOLE
 - LOT CONNECTION
- WMMH A1/A4
 Outlet I.L. 43.06m
 Inlet I.L. 43.11m
 LL=44.73
 1750861.19mE
 5951610.82mN
- WMMH A5/A
 (10500) RC
 LL=85.10
 1754068.78mE
 5944144.33mN
- Manhole Identifier #
 Manhole Diameter
 Lid Level
 Co-Ordinate Easting (NZTM)
 Co-Ordinate Northing (NZTM)
- 23.25m Distance from D/S manhole
 9.0m Connection Length



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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/- 25mm

Signed: *[Signature]*
Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

REVISION DETAILS	NAME	DATE	CLIENT
1. ISSUED FOR AS-BUILT	TH	NOV 2014	



KAREPIRO DEVELOPMENT - STAGES 1 & 2A

WASTEWATER AS-BUILT PLAN
(SHEET 8 OF 8)

AUCKLAND COUNCIL



DESIGNED:	ISSUED FOR AS-BUILT
BP	
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:750 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1&2A-AB-308	REV. 1



I certify that these As-built Plans are an accurate record of the works undertaken and that:

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/-25mm

Signed: *[Signature]*
Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

STAGE 2A

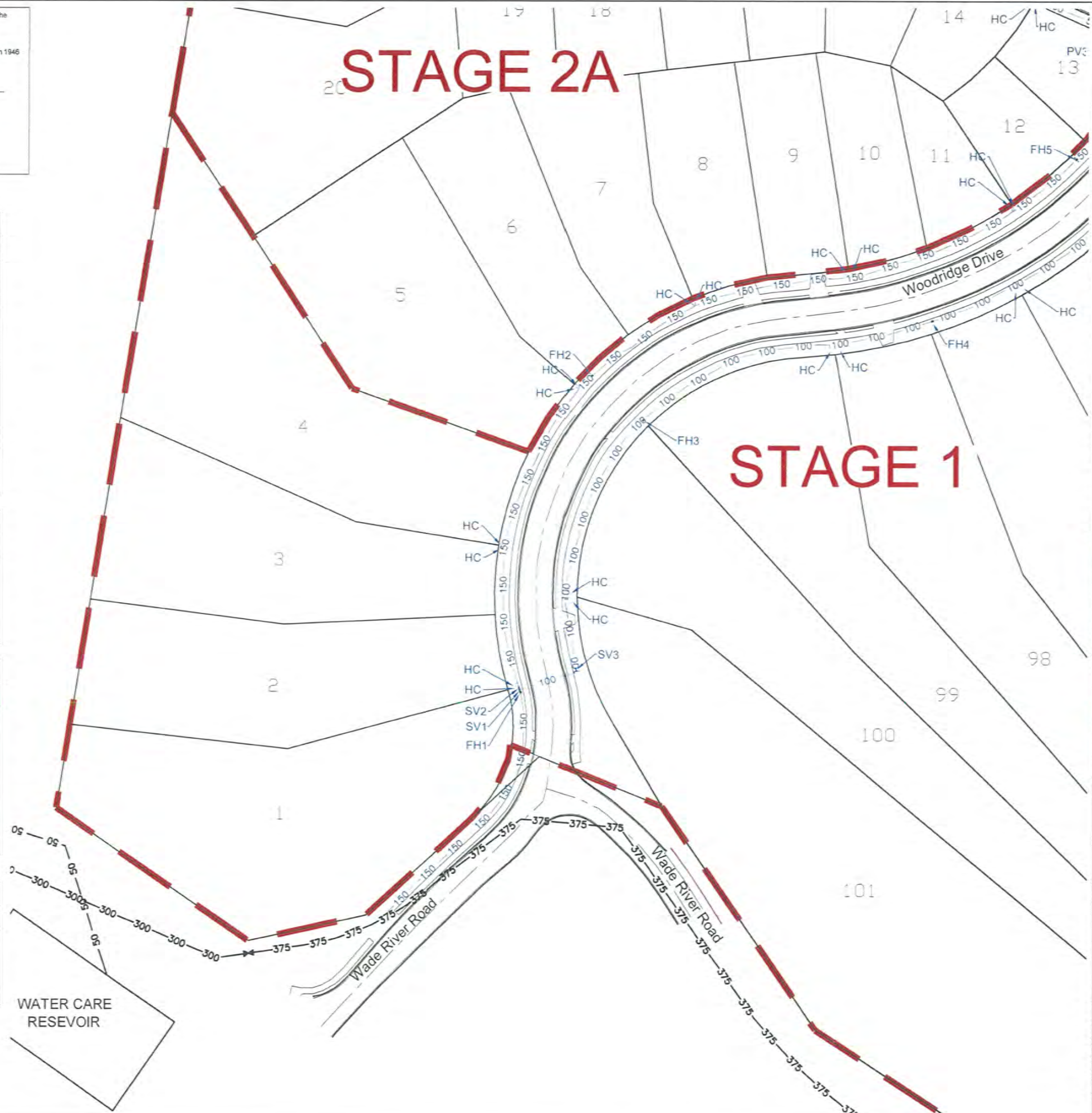
STAGE 1

SLUICE VALVE		
ID	SCHEDULE OF COORDINATES	
SV1	5944042.69 mN	1754836.74 mE
SV2	5944043.33 mN	1754836.53 mE
SV3	5944047.79 mN	1754850.27 mE
SV4	5944185.65 mN	1755010.08 mE
SV5	5944185.32 mN	1755010.27 mE
SV6	5944198.75 mN	1755016.18 mE
SV7	5944199.12 mN	1755016.07 mE
SV8	5944207.74 mN	1755012.34 mE
SV9	5944213.44 mN	1754989.41 mE
SV10	5944213.22 mN	1754988.98 mE
SV11	5944213.74 mN	1754988.61 mE

PEET VALVE		
ID	SCHEDULE OF COORDINATES	
PV1	5944198.18 mN	1755018.09 mE
PV2	5944208.89 mN	1755012.97 mE
PV3	5944201.26 mN	1754982.36 mE
PV4	5944226.68 mN	1754835.88 mE

FIRE HYDRANT		
ID	SCHEDULE OF COORDINATES	
FH1	5944042.38 mN	1754836.86 mE
FH2	5944118.71 mN	1754854.08 mE
FH3	5944108.06 mN	1754866.58 mE
FH4	5944132.05 mN	1754936.58 mE
FH5	5944171.10 mN	1754971.40 mE
FH6	5944183.81 mN	1755004.46 mE
FH7	5944227.52 mN	1754835.96 mE

BLANK CAP		
ID	SCHEDULE OF COORDINATES	
BC1	5944235.54 mN	1755002.51 mE
BC2	5944234.60 mN	1755017.30 mE
BC3	5944182.78 mN	1755053.16 mE
BC4	5944156.59 mN	1755079.70 mE



REVISION DETAILS		NAME	DATE
1.	ISSUED FOR AS-BUILT	TH	NOV 2014

- NOTES**
- ALL WORKS AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PIPE DIAMETERS ARE INTERNAL DIAMETERS.
 - ALL LINES SHOWN ARE NEW PUBLIC LINES UNLESS NOTED OTHERWISE
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL FACILITIES ABOVE RL 75.00 WILL REQUIRE BOOSTER PUMPS TO BE INSTALLED BY THE LOT OWNERS.

LEGEND

STAGE BOUNDARY	---
AS-BUILT WATERMAIN	— 50 —
EXISTING WATERMAIN	— 50 —
SLUICE VALVE	SV1
PEET VALVE	PV1
FIRE HYDRANT	FH1
BLANK CAP	BC1
HOUSE CONNECTION	HC

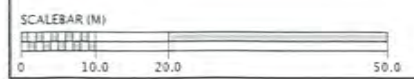


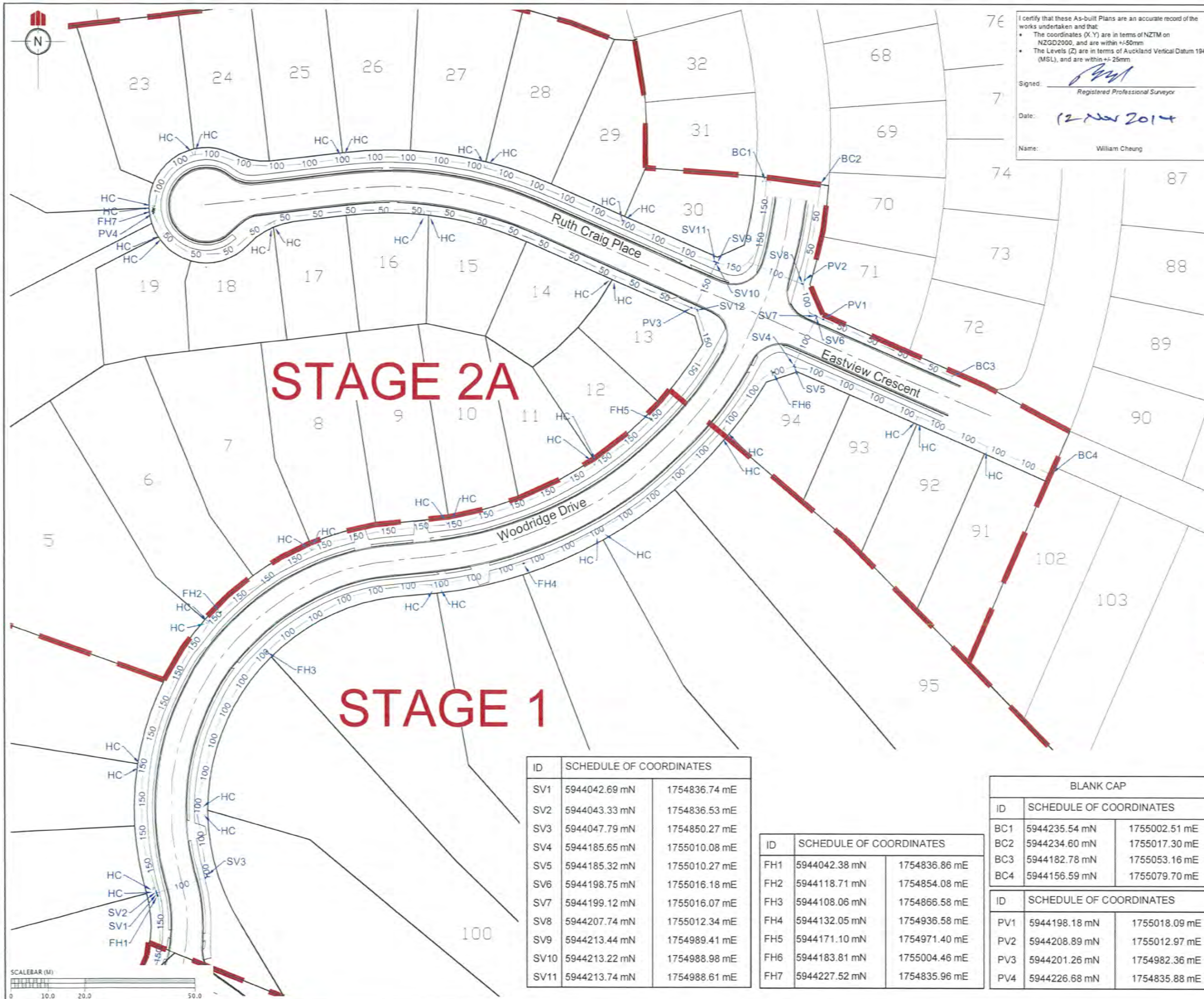
KAREPIRO DEVELOPMENT STAGES 1 & 2A

AS-BUILT WATER RETICULATION PLAN - STAGE 1

AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR AS-BUILT
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: NOV 2014	
DWC. NO. 60356-1-2A-AB-600	REV. 1





I certify that these As-built Plans are an accurate record of the works undertaken and that:

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL), and are within +/-25mm

Signed: *[Signature]*
Registered Professional Surveyor

Date: 12 Nov 2014

Name: William Cheung

REVISION DETAILS	NAME	DATE
1. ISSUED FOR AS-BUILT	TH	NOV 2014

- NOTES**
- ALL WORKS AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - PIPE BEDDING COMPLIES WITH AC STANDARD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PIPE DIAMETERS ARE INTERNAL DIAMETERS.
 - ALL LINES SHOWN ARE NEW PUBLIC LINES UNLESS NOTED OTHERWISE
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL FACILITIES ABOVE RL 75.00 WILL REQUIRE BOOSTER PUMPS TO BE INSTALLED BY THE LOT OWNERS.

LEGEND

STAGE BOUNDARY	---
AS-BUILT WATERMAIN	— 50 —
EXISTING WATERMAIN	— 100 —
SLUICE VALVE	SV1
PEET VALVE	PV1
FIRE HYDRANT	FH1
BLANK CAP	BC1
HOUSE CONNECTION	HC



KAREPIRO DEVELOPMENT STAGES 1 & 2A

AS-BUILT WATER RETICULATION PLAN - STAGE 2A

AUCKLAND COUNCIL

DESIGNED: BP	ISSUED FOR AS-BUILT
CHECKED:	DRAWN: TH
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: 1:1000 @ A3
ISSUED: NOV 2014	
DWG. NO. 60356-1-2A-AB-601	REV. 1

ID	SCHEDULE OF COORDINATES	
SV1	5944042.69 mN	1754836.74 mE
SV2	5944043.33 mN	1754836.53 mE
SV3	5944047.79 mN	1754850.27 mE
SV4	5944185.65 mN	1755010.08 mE
SV5	5944185.32 mN	1755010.27 mE
SV6	5944198.75 mN	1755016.18 mE
SV7	5944199.12 mN	1755016.07 mE
SV8	5944207.74 mN	1755012.34 mE
SV9	5944213.44 mN	1754989.41 mE
SV10	5944213.22 mN	1754988.98 mE
SV11	5944213.74 mN	1754988.61 mE

ID	SCHEDULE OF COORDINATES	
FH1	5944042.38 mN	1754836.86 mE
FH2	5944118.71 mN	1754854.08 mE
FH3	5944108.06 mN	1754866.58 mE
FH4	5944132.05 mN	1754936.58 mE
FH5	5944171.10 mN	1754971.40 mE
FH6	5944183.81 mN	1755004.46 mE
FH7	5944227.52 mN	1754835.96 mE

BLANK CAP		
ID	SCHEDULE OF COORDINATES	
BC1	5944235.54 mN	1755002.51 mE
BC2	5944234.60 mN	1755017.30 mE
BC3	5944182.78 mN	1755053.16 mE
BC4	5944156.59 mN	1755079.70 mE

ID	SCHEDULE OF COORDINATES	
PV1	5944198.18 mN	1755018.09 mE
PV2	5944208.89 mN	1755012.97 mE
PV3	5944201.26 mN	1754982.36 mE
PV4	5944226.68 mN	1754835.88 mE


LIST OF COORDINATES (X,Y)							
Lot #	Point #	SPECIFIC DESIGN ZONE (RETAINING)	SPECIFIC DESIGN ZONE (SLOPE)	SERVICE LINE RESTRICTIONS	LEADING EDGE PILE ZONE	BUSH COVENANT / NO BUILD ZONE	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
1	1	397060.86, 826920.8					
1	2	397065.2, 826924.15					
1	3	397066.24, 826919.77					
1	4	397077.55, 826927.18					
1	5	397079.79, 826923.11					
1	6	397102.03, 826950.37					
1	7	397104.45, 826946.45					
1	8	397106.95, 826952.43					
1	9				397048.55, 826917.32		
1	10		397047.59, 826923.72			397047.59, 826923.72	
1	11				397050.85, 826931.07		
1	12		397048.97, 826931.97				
1	13				397060.72, 826942.03		
1	14		397059.37, 826943.52				
1	15				397064.77, 826944.99		
1	16		397063.82, 826946.76				
1	17		397076.82, 826951.16				
1	18				397077.36, 826949.24		
1	19		397091.68, 826955.09				
1	20				397092.28, 826953.19		
1	21		397114.83, 826963.91				
1	22				397114.44, 826961.62		
1	28	397078.1, 826965.72					
1	30	397104.35, 826973.19					
1	37			397110.344, 826974.674			
1	38			397114.58, 826973.37			
1.2	23				397044.08, 826963.16		
1.2	24		397073.36, 826965.42				
2	25	397072.68, 826966.5	397072.68, 826966.5				
2	26		397071.5, 826968.02				
2	27	397076.86, 826970.04					
2	29	397103.05, 826977.49					
2	31	397108.5, 826976.69					
2	32		397065.74, 826970.56				
2	33		397060.71, 826972.26				
2	34		397057.28, 826972.23		397057.28, 826972.23		
2	35		397054.84, 826972.2				
2	36				397054.14, 826974.27		
2	39				397069.97, 826990.7		
2	41	397074.38, 826991.57					
2	46	397101.65, 826993.39					
2.3	444			397108.12, 826994.88			
2.3	40		397068.64, 826992.31				
2.3	52				397061.18, 826991.82		
2.3	380					397083.21, 826993.26	
3	42	397069.42, 826993.5					
3	43	397074.08, 826996.06					
3	44	397101.91, 826997.91					
3	45	397106.06, 826995.91					
3	47	397076.3, 826996.31	397076.3, 826996.31				
3	48				397081.88, 826998.9		
3	49		397080.3, 827000.16				
3	50		397084.98, 827008.12				
3	51				397087.09, 827007.79		
3	53			397106.81, 827008.75			
3	55	397100.18, 827012.18					
3.4	57				397085.54, 827015.4	397085.54, 827015.4	
3.4	58		397083.44, 827015.7				
3.4	60	397081.16, 827016.09	397081.16, 827016.09				
3.4	62				397074.27, 827017.49		
3.4	381				397083.98, 827015.62		
3.4	383				397085.96, 827015.34		
3.4	445			397107.34, 827012.29			
4	54	397105.51, 827013.63					
4	56	397100.92, 827016.62					
4	59	397084.4, 827018.93					
4	61	397079.14, 827017.37					
4	63				397084.34, 827024.52		
4	64		397082.41, 827025.09				
4	65				397086.66, 827029.45		
4	66		397084.95, 827030.53				
4	67				397089.25, 827032.64		
4	68		397087.9, 827034.16				
4	70	397108.01, 827036.33					
4	74	397094.44, 827040.89					
4	446			397111.14, 827029.83			
4.5	72				397100.99, 827040.01		
4.5	73		397098.53, 827040.83				
4.5	75				397093.24, 827042.6		
4.5	78				397074.44, 827048.9		
4.5	382					397093.87, 827042.4	

LIST OF COORDINATES (X,Y)							
Lot #	Point #	SPECIFIC DESIGN ZONE (RETAINING)	SPECIFIC DESIGN ZONE (SLOPE)	SERVICE LINE RESTRICTIONS	LEADING EDGE PILE ZONE	BUSH COVENANT / NO BUILD ZONE	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
4.5	447			397113.66, 827034.48			
5	448			397123.99, 827051.62			
5	69	397113.46, 827036.89					
5	71	397109.4, 827040.61					
5	76	397096.09, 827045.09					
5	77		397089.1, 827043.99				
5	79		397097.15, 827047.72				
5	80				397107.25, 827053.22		
5	81		397105.31, 827055.51				
5	84	397119.94, 827056.48					
5	87	397113.67, 827061.78	397113.67, 827061.78				
5	91	397109.77, 827068					
5	94					397080.65, 827076.31	
5	207	397099.66, 827118.8					
5	208	397076.37, 827102.7					
5.6	85				397116.93, 827060.48		
5.6	86		397114.63, 827062.5				
5.6	90				397110.95, 827068.41		
5.6	92	397109.36, 827070.96	397109.36, 827070.96				
5.6	384					397110.83, 827068.6	
5.6	449			397125.68, 827053.13			
6	82	397125.21, 827054.96					
6	83	397122.85, 827059.93					
6	88	397117.09, 827064.78					
6	89	397113.63, 827070.31			397113.63, 827070.31		
6	93	397109.04, 827073.43					
6	95	397134.4, 827070.22					
6	102	397126.35, 827082.65					
6	119			397138.99, 827065.02			
6	205	397110.78, 827121.39					
6	388		397117.47, 827076.71				
6	389				397119.12, 827074.2		
6.7	99				397128.73, 827080.01		
6.7	100				397127.8, 827082.21		
6.7	101		397127.54, 827082.8				
6.7	103	397126.55, 827085.12	397126.55, 827085.12				
6.7	385					397127.13, 827083.76	
7	96	397139.18, 827067.58					
7	97	397137.92, 827073.03					
7	98	397132.02, 827080.95					
7	104	397130.47, 827084.45					
7	105	397126.4, 827088.13					
7	106		397141.29, 827084.81				
7	107				397141.15, 827081.8		
7	110	397151.38, 827080.9					
7	114	397147.12, 827090.69					
7	407	397122.78, 827123.09					
7.8	109				397153.55, 827079.88		
7.8	112				397149.78, 827087.51		
7.8	113		397148.56, 827090.27				
7.8	386					397146.48, 827095.01	
7.8	387		397151.71, 827083.12				
8	108	397154.97, 827077.15					
8	111	397155.6, 827082.49					
8	115	397151.24, 827092.49					
8	116	397147.16, 827096.17					
8	117			397169.65, 827080.03			
8	118			397156.18, 827074.41			
8	120			397173.16, 827077.36			
8	129	397169.09, 827100.29					
8	390		397154.35, 827093.52				
8	391		397165.23, 827094.74				
8	392				397155.25, 827090.58		
8	393				397165.36, 827091.72		
8	405	397149.24, 827126.71					
8.9	128				397170.56, 827099.43		
8.9	130		397170.04, 827102.38				
9	121	397178.7, 827078.07		397178.7, 827078.07			
9	122	397182.8, 827081.03					
9	123	397177.45, 827082.23					
9	124	397176.88, 827082.11					
9	125				397172.15, 827090.38		
9	126	397171.59, 827093.56					
9	127	397173.65, 827100.74					
9	131	397170.46, 827105.58					
9	132	397192.61, 827080.4					
9	133			397191.61, 827082.09			
9	139	397187.84, 827108.49					
9	403	397169.05, 827129.43					
9.10	141				397188.71, 827110.52		

REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	17/10/14
2.	DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
 I, William, LICENSED CADASTRAL SURVEYOR,
 HEREBY CERTIFY THE ACCURACY OF THIS
 AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 24/4/15

CLIENT:




**KAREPIRO
 DEVELOPMENT
 STAGES 1 & 2A**

**GCR PLANS - BUILDING
 RESTRICTIONS
 STAGES 1 & 2A (SHEET 7 OF 9)**

AUCKLAND COUNCIL

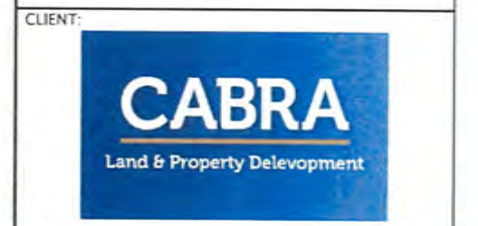
DESIGNED: BP	ISSUED FOR GCR
CHECKED:	DRAWN: BY
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 60356	SCALE: N/A
ISSUED: 17/10/14	
DWC. NO. 60356-1-2A-GCR-206	REV. 2

LIST OF COORDINATES (X,Y)								
Lot #	Point #	SPECIFIC DESIGN ZONE (RETAINING)	SPECIFIC DESIGN ZONE (SLOPE)	SERVICE LINE RESTRICTIONS	LEADING EDGE PILE ZONE	BUSH COVENANT / NO BUILD ZONE	BUILDING HEIGHT RESTRICTIONS ZONE	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
9.10	142		397188.31, 827112.79					
9.10	394			397193.61, 827082.67				
10	134	397196.53, 827081.46						
10	135	397200.77, 827084.93						
10	136	397196.2, 827086.03						
10	137				397190.18, 827102.15			
10	138		397189.66, 827105.11					
10	140				397192.28, 827109.26			
10	143	397189.22, 827113.81						
10	144			397210.57, 827087.85				
10	147	397209.49, 827095.54						
10	151	397207, 827106.63						
10	181	397203.15, 827127.56						
10	187	397186.88, 827131.78						
10	396				397199.11, 827106.46			
10	397		397200.03, 827108.25					
10.11	149				397209.76, 827099.98			
10.11	150		397209.15, 827102.69					
10.11	153				397208.04, 827107.64			
10.11	154	397207.57, 827109.73	397207.57, 827109.73					
10.11	395			397212.36, 827088.39				
10.15	184			397202.19, 827129.43				
11	145			397231.35, 827097.75				
11	146	397212.75, 827090.99						
11	148	397213.93, 827096.32						
11	152	397211.45, 827107.53						
11	155	397208.08, 827112						
11	158	397226.29, 827104.56						
11	162	397220.91, 827112.22						
11	178	397215.2, 827119.67						
11	398		397215.58, 827108.54					
11	399				397215.47, 827106.54			
11.12	159				397226.02, 827107			
11.12	160		397224.66, 827108.94					
11.12	163				397221.21, 827113.86			
11.12	164		397219.48, 827116.34					
11.12	177	397216.97, 827119.78						
12	156	397231.05, 827101.83						
12	157	397230.12, 827106.94						
12	161	397224.6, 827114.8						
12	165	397219.89, 827117.6						
12	166		397248.91, 827109.99		397248.91, 827109.99			
12	167				397229.52, 827121.42			
12	168		397229.26, 827125.44					
12	170	397242.37, 827118.04						
12	174	397228.65, 827129.99						
12	176	397223.81, 827125.19						
12	401			397246.64, 827112.52				
12.13	400			397249.72, 827115.80				
13	169	397247.69, 827116.33						
13	171	397245.46, 827121.31						
13	172			397261.26, 827132.46				
13.14	402			397233.25, 827143.37				
14	173	397228.49, 827136.11						
14	175	397220.82, 827128.56						
14	179	397215.84, 827124.64						
14	180	397205.04, 827131.69						
14.15	182			397212.82, 827152.46				
14.15	183			397203.18, 827129.2				
15	185			397210.79, 827153.31				
15.16	186	397187.12, 827136.36						
16	188			397186.50, 827159.14				
16.17	189			397165.09, 827158.40				
16.17	190			397169, 827129.83				
16.17	406	397168.45, 827133.83		397168.45, 827133.83				
17	192			397163.04, 827158.25				
17.18	404	397148.63, 827131.16						
17.9	191			397167.66, 827129.65				
18	193			397141.01, 827155.18				
18	194			397122.74, 827123.58				
18.19	408	397122.42, 827127.59		397122.42, 827127.59				
19	195			397120.81, 827123.32				
19	196			397121.03, 827145.19				
19	197			397120.04, 827144.04				
19	198			397111.55, 827151.12				
19	199			397115.98, 827151.75				
19	203			397109.24, 827150.8				
19	204	397109.63, 827125.83						
19.2	202			397106.48, 827150.4				
19.2	409	397099.35, 827123.34						
20	206	397097.83, 827123.01						

LIST OF COORDINATES (X,Y)								
Lot #	Point #	SPECIFIC DESIGN ZONE (RETAINING)	SPECIFIC DESIGN ZONE (SLOPE)	SERVICE LINE RESTRICTIONS	LEADING EDGE PILE ZONE	BUSH COVENANT / NO BUILD ZONE	BUILDING HEIGHT RESTRICTIONS ZONE	SPECIFIC DESIGN ZONE (UNCERTIFIED FILLS)
20	209	397073.8, 827106.39						
20	210	397070.98, 827101.68						
20	213					397054.78, 827107.01		
20	214		397055.25, 827112.87			397055.25, 827112.87		
20	215					397056.99, 827117.01		
20	216					397063.96, 827121.31		
20.21	200			397111.98, 827157.91				
20.21	201			397104.58, 827153.95				
20.21	217					397071.3, 827136.13		
20.5	211		397072.02, 827100.42					
20.5	212					397067.86, 827097.59		
21	218					397068.19, 827138.49	397068.19, 827138.49	
21	219					397049.78, 827152.43		
21	221					397053.13, 827167.23		
21.22	220						397070.09, 827166.59	
21.22	222		397065.3, 827168.87					
21.22	410				397059.6, 827171.59			
22	223					397079.13, 827184.73		
22	224					397081.84, 827209.96		
22	225		397084.18, 827175.41		397084.18, 827175.41			
22	226					397087.11, 827173.7		
22.23	227			397103.08, 827172.43				
22.23	228			397102.06, 827175.62				
22.23	411		397099.13, 827184.77					
22.23	412				397100.07, 827181.82			
23	229				397106.03, 827185.42			
23	230		397104.72, 827188.14					
23.24	231			397122.78, 827179.98				
23.24	413		397120.86, 827194.06					
23.24	414				397121.27, 827191.02			
24	232			397123.73, 827185.23				
24	233				397123.74, 827191.92			
24	234		397123.2, 827194.92					
24.25	415			397143.09, 827179.05				
24.25	416			397142.30, 827184.88				
24.25	417				397141.33, 827191.98			
24.25	418		397140.92, 827194.96					
25	236				397151.75, 827192.48			
25	237		397151.46, 827195.47					
25.26	235			397163.42, 827178.05				
25.26	419			397162.55, 827184.37				
25.26	420				397161.26, 827193.83			
25.26	421		397160.85, 827196.8					
26	238				397162.01, 827193.93			
26	239		397161.73, 827196.92					
26.27	422			397182.10, 827183.78				
26.27	423				397182.47, 827194.78			
26.27	424		397182.57, 827197.78					
27	240				397191.31, 827194.94			
27	241		397191.49, 827197.94					
27	242			397200.90, 827183.18				
27	247			397204.48, 827199.33				
27	248			397208.43, 827218.35				
27	249			397202.83, 827219.48				
27.28	425				397206.09, 827192.87			
27.28	426		397206.75, 827195.8					
28	243			397207.65, 827181.67				
28	246			397212.40, 827198.70				
28	250		397222.31, 827193.38					
28	251				397222.13, 827190.37			
28.29	252				397228.65, 827190.68			
28.29	253		397229.92, 827193.74					
28.29	427			397222.33, 827175.44				
29	254				397233.43, 827192.41			
29	255		397234.33, 827195.43					
29	256		397246.05, 827183.64		397246.05, 827183.64			
29	257	397244.78, 827174.36						
29	258	397244.06, 827194.22						
29	259	397244.96, 827197.57						
29	260	397245.94, 827175.6						
29.30	428				397242.45, 827167.12			
30	244				397266, 827151.77			
30	245				397271.34, 827154.33			
30	261	397269.48, 827174.32						
30	262	397265.96, 827173.25						
91	263				397346.52, 827097.14			
91	264				397341.49, 827096.65			
91	267	397340.5, 827053.58						
91	268	397340.47, 827057.41						
91	269	397357.04, 827092.9						
91	270	397353.93, 827089.99						

REVISION DETAILS		NAME	DATE
1.	ISSUED FOR GCR	BP	17/10/14
2.	DRAINAGE RESTRICTIONS REVISED.	BP	24/04/15

CERTIFICATION
 I, Johnnie Chan, LICENSED CADASTRAL SURVEYOR, HEREBY CERTIFY THE ACCURACY OF THIS AS-BUILT INFORMATION.
 SIGNED: [Signature]
 LICENSED CADASTRAL SURVEYOR
 DATE: 24/04/15



KAREPIRO DEVELOPMENT STAGES 1 & 2A