

- NOTES
- ALL FOOTPATHS ARE 100mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
 - ALL RAISED CROSSINGS ARE CONSTRUCTED FROM BROOM BRUSH CONCRETE.
 - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
 - CONTOURS ARE AT 0.25m INTERVALS
 - BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.

LEGEND

STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

SS MANHOLE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

WATER MANIFOLD BOX

TELECOMMUNICATIONS MH

POWER BOX

TELECOM PLINTH

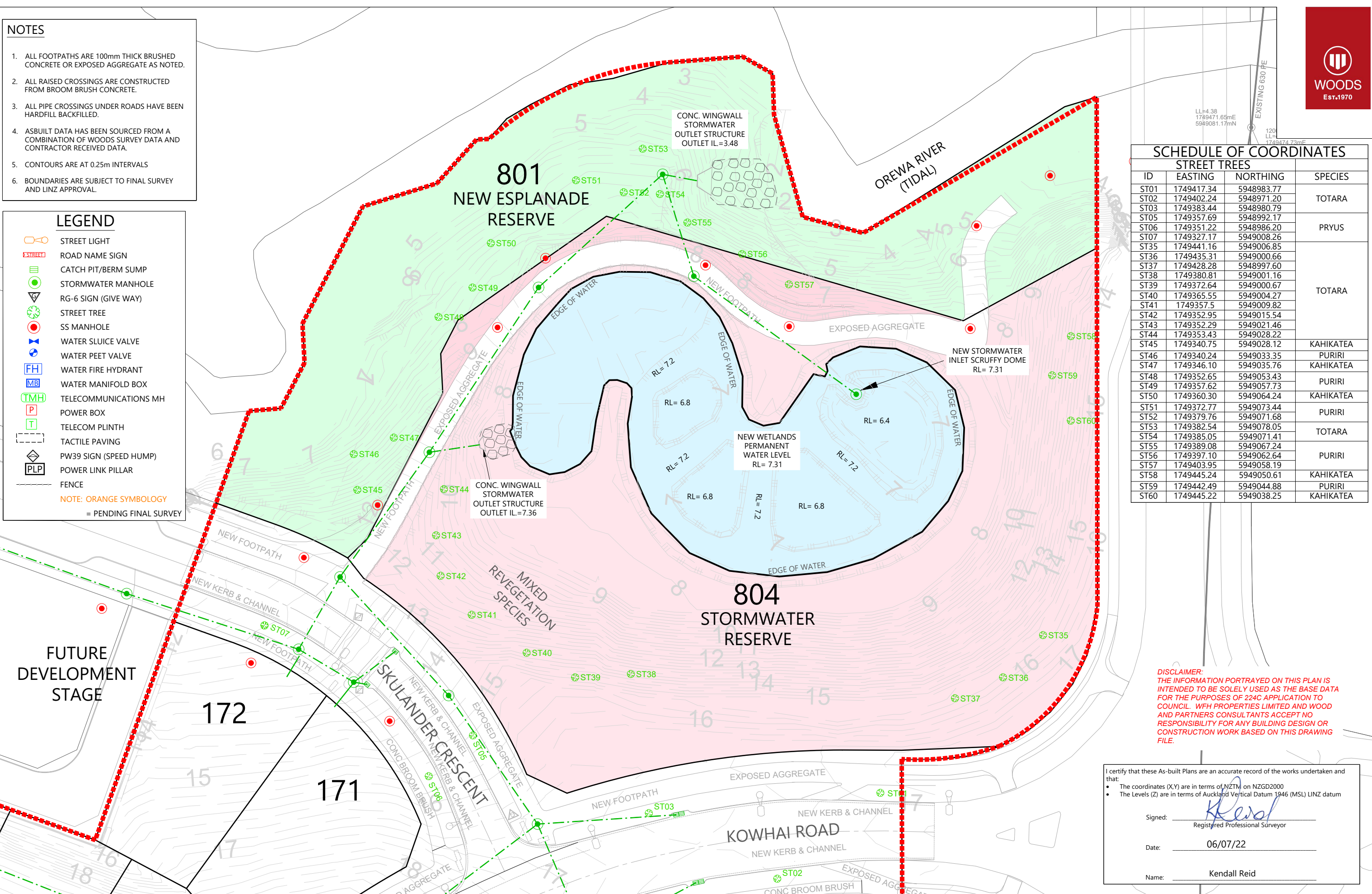
TACTILE PAVING

PW39 SIGN (SPEED HUMP)

POWER LINK PILLAR

FENCE

NOTE: ORANGE SYMBOLOGY
= PENDING FINAL SURVEY



SCHEDULE OF COORDINATES			
STREET TREES			
ID	EASTING	NORTHING	SPECIES
ST01	1749417.34	5948983.77	TOTARA
ST02	1749402.24	5948971.20	
ST03	1749383.44	5948980.79	
ST05	1749357.69	5948992.17	PRYUS
ST06	1749351.22	5948986.20	
ST07	1749327.17	5949008.26	
ST35	1749441.16	5949006.85	TOTARA
ST36	1749435.31	5949000.66	
ST37	1749428.28	5948997.60	
ST38	1749380.81	5949001.16	
ST39	1749372.64	5949000.67	
ST40	1749365.55	5949004.27	
ST41	1749357.5	5949009.82	
ST42	1749352.95	5949015.54	KAHIKATEA
ST43	1749352.29	5949021.46	
ST44	1749353.43	5949028.22	
ST45	1749340.75	5949028.12	KAHIKATEA
ST46	1749340.24	5949033.35	PURIRI
ST47	1749346.10	5949035.76	KAHIKATEA
ST48	1749352.65	5949053.43	PURIRI
ST49	1749357.62	5949057.73	
ST50	1749360.30	5949064.24	KAHIKATEA
ST51	1749372.77	5949073.44	PURIRI
ST52	1749379.76	5949071.68	
ST53	1749382.54	5949078.05	TOTARA
ST54	1749385.05	5949071.41	
ST55	1749389.08	5949067.24	PURIRI
ST56	1749397.10	5949062.64	
ST57	1749403.95	5949058.19	
ST58	1749445.24	5949050.61	KAHIKATEA
ST59	1749442.49	5949044.88	PURIRI
ST60	1749445.22	5949038.25	KAHIKATEA

DISCLAIMER:
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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

The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:

Registered Professional Surveyor

Date:

06/07/22

Name:

Kendall Reid

REVISION DETAILS

1	ISSUED FOR 224C	INT	MD	DATE	06/07/22	SURVEYED	DESIGNED	WOODS	MB
							DRAWN	MD	
							CHECKED	KR	
							APPROVED	KR	

WOODS Ltd

LEVEL 1 BUILDING B

8 NUGENT ST, GRAFTON

AUCKLAND 1023

WOODS.CO.NZ

WFH

PROPERTIES

ARRAN HILL PRECINCT 6 - STAGE 1

RESERVE AS-BUILT

LAYOUT SHEET - SHEET 1 OF 1

N

STATUS

ISSUED FOR 224C

SCALE

1:500 @ A3

COUNCIL

AUCKLAND COUNCIL

DWG NO

37611-01-300-AB

REV

1

Plot Date: 7:11:25 am 6 July 2022, MATTD
File: C:\1205\ENERGY\DATA\WP-PEN-APP-01\37611 - PRECINCT 6 STAGE 1_48A\CAD SURV\AB\37611_01_300_AB RESERVES.DWG

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SEE SHEET 1001

SEE SHEET 1002

SEE SHEET 1003



NOTES

1. CONTOURS ARE AT 0.25m INTERVALS.
2. BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.

LEGEND

- CONTOURS MAJOR
- CONTOURS MINOR
- STAGE BOUNDARIES
- LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

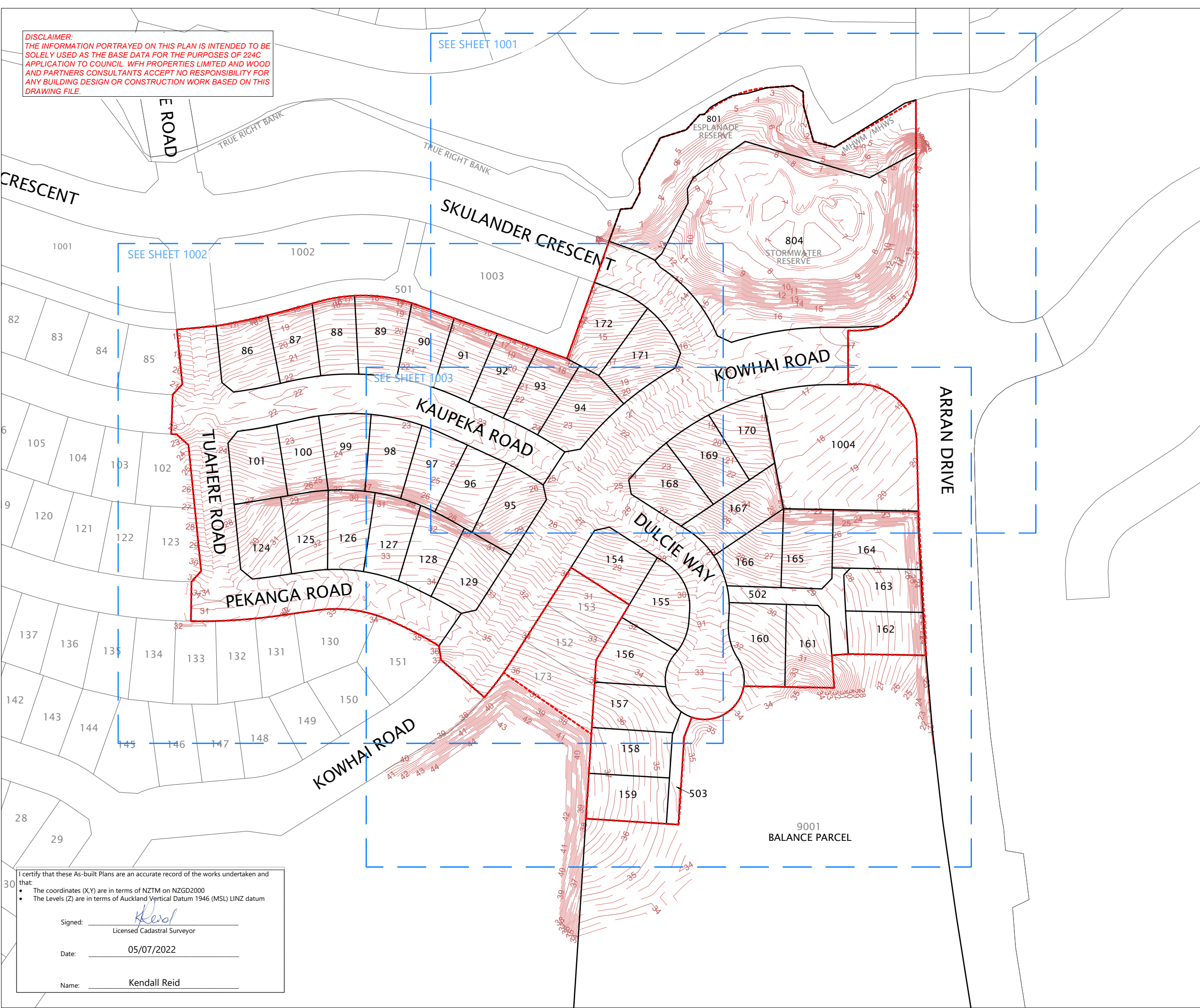
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL PRECINCT 6 - STAGE 1

FINAL SURFACE ASBUILT PLAN LAYOUT SHEET SHEET 1 OF 4

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1000-AB	



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
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Kendall Reid
Licensed Cadastral Surveyor

Date: 05/07/2022

Name: Kendall Reid

C:\12SDSYNERGY\DATA\WP-PEN-APP-01\37611 - PRECINCT 6 STAGE 1_480\A3\SURV\AB\37611_01_1000_AB_FINAL_SURFACE.DWG, 2022-Jul-05 08:16, PRINT AS PDF-FLAT PC3, MatdD

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
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Kendall Reid
Licensed Cadastral Surveyor

Date: 05/07/2022

Name: Kendall Reid

DISCLAIMER:
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NOTES

1. CONTOURS ARE AT 0.25m INTERVALS.
2. BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.

LEGEND

- CONTOURS MAJOR
- CONTOURS MINOR
- STAGE BOUNDARIES
- LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1
FINAL SURFACE ASBUILT PLAN
SHEET 2 OF 4

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1001-AB	

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APPLICATION TO COUNCIL. WFH PROPERTIES LIMITED AND WOOD
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DRAWING FILE.



NOTES

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LEGEND

- CONTOURS MAJOR
- CONTOURS MINOR
- STAGE BOUNDARIES
- LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

FINAL SURFACE ASBUILT PLAN
SHEET 3 OF 4

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1002-AB	

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- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Licensed Cadastral Surveyor

Date: 05/07/2022

Name: Kendall Reid

C:\1205\ENERGY\DATA\WP-PEN-APP-01\37611 - PRECINCT 6 STAGE 1_480\ACAD\SURV\AB\37611_01_1002\AB FINAL SURFACEDWG, 2022-Jul-05 08:16
PRINT AS PDF-FLAT PC3, MatdD



NOTES

1. CONTOURS ARE AT 0.25m INTERVALS.
2. BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.

LEGEND

CONTOURS MAJOR

CONTOURS MINOR

STAGE BOUNDARIES

LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

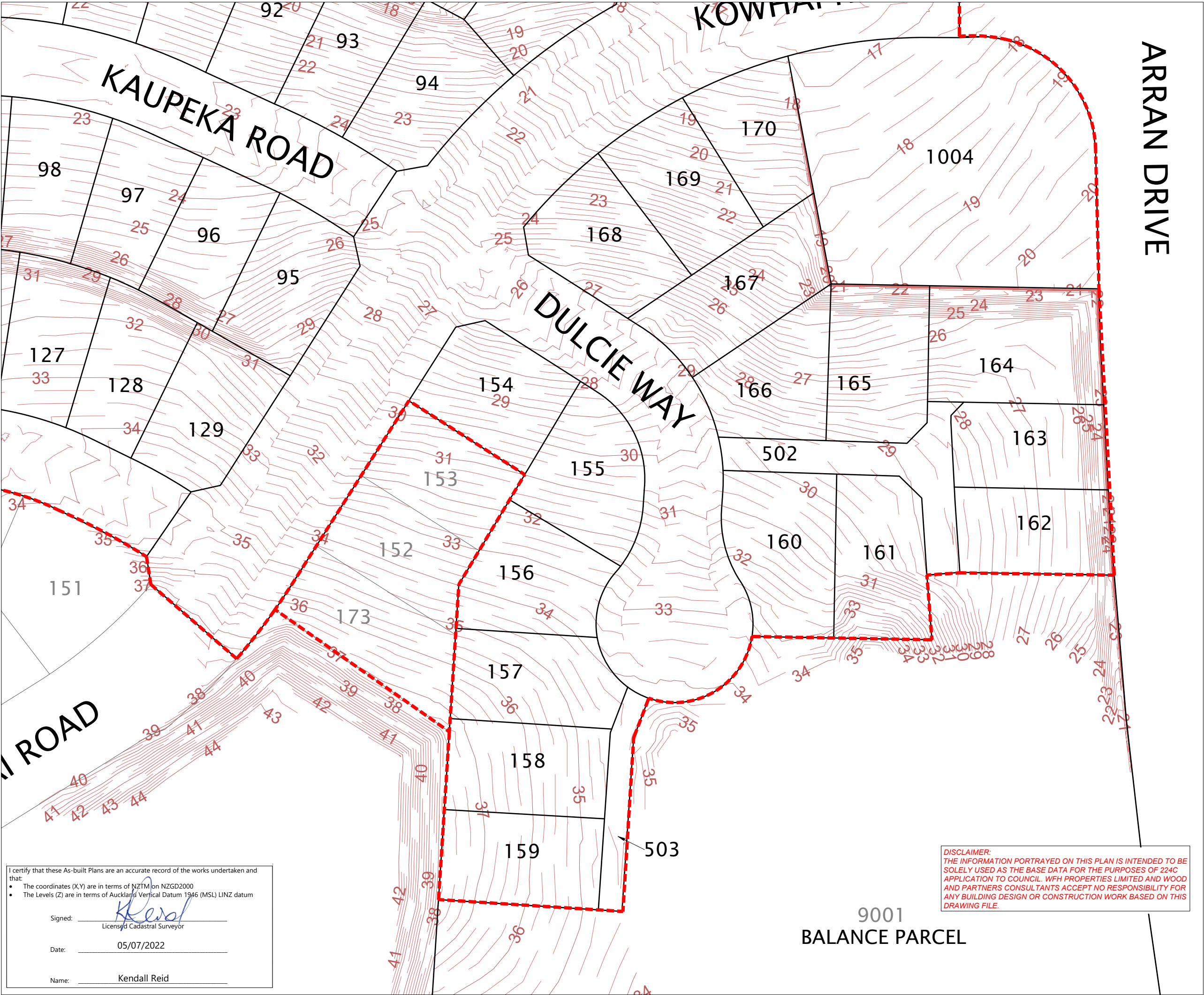
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

FINAL SURFACE ASBUILT PLAN
SHEET 4 OF 4

STATUS	AS-BUILT	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1003-AB	



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- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Kendall Reid
Licensed Cadastral Surveyor

Date: 05/07/2022

Name: Kendall Reid

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9001
BALANCE PARCEL

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FILE.



NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

- ZERO CONTOUR
CUT CONTOUR
FILL CONTOUR
STAGE BOUNDARIES
LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

CUT AND FILL ASBUILT
SHEET 1 OF 3
ORIGINAL SURFACE TO
FINAL SURFACE

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1100-AB	

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Signed: Kendall Reid
Licensed Cadastral Surveyor

Date: 05/07/2022

Name: Kendall Reid

C:\2DS\ENERGY\DATA\WP-PEN-APP-01\37611 - PRECINCT 6 STAGE 1_484\CAD\SURV\AB\37611_01_1100_A8 CUT FILL CONTOURS.DWG, 2022-Jul-05 08:11, CUT FILL WRITER PC3, MattD

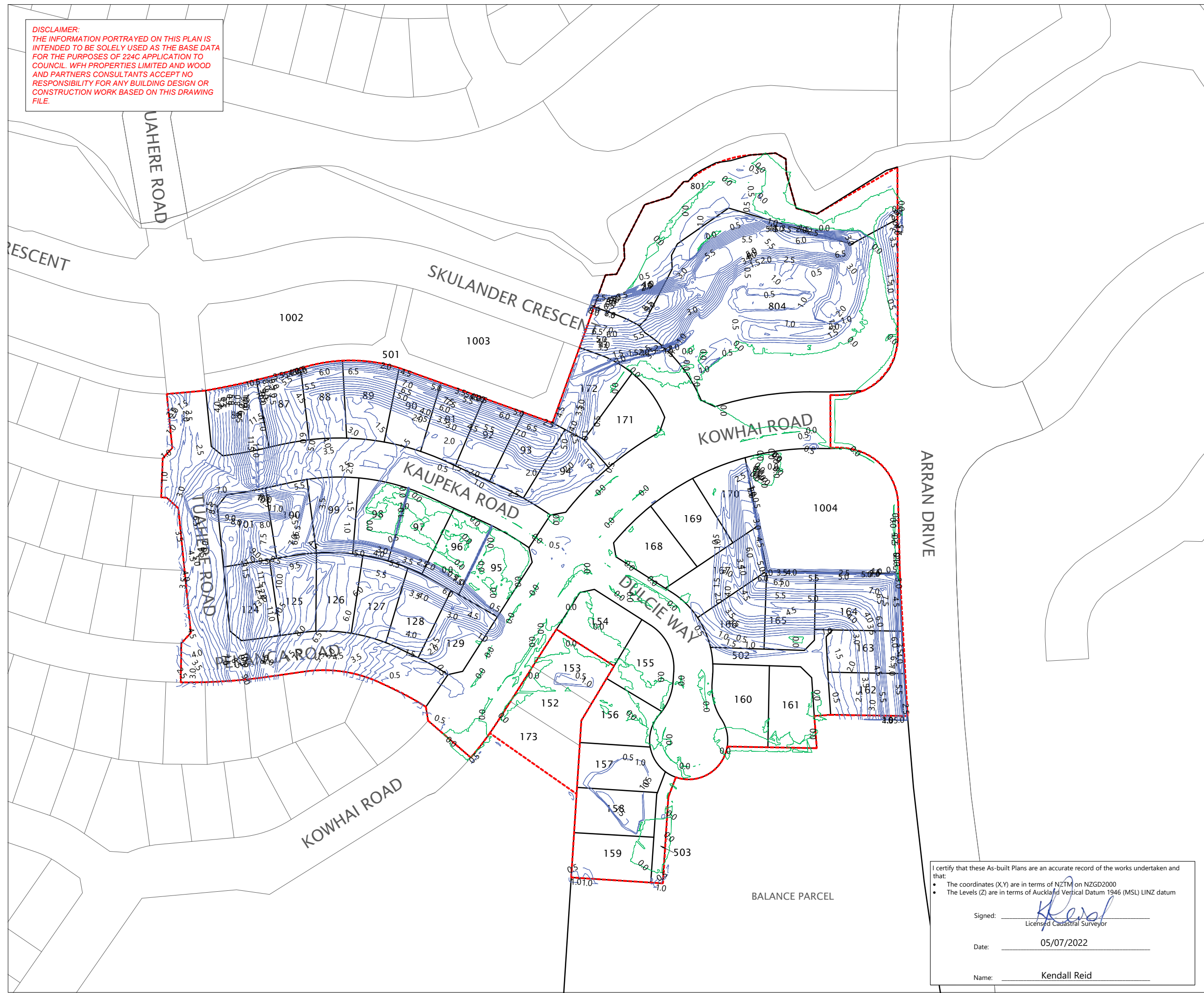
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CONSTRUCTION WORK BASED ON THIS DRAWING
FILE.



NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

- ZERO CONTOUR
- CUT CONTOUR
- FILL CONTOUR
- STAGE BOUNDARIES
- LOT BOUNDARIES



REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

CUT AND FILL ASBUILT
SHEET 2 OF 3
LOWEST SURFACE TO
FINAL SURFACE

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1101-AB	

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) LINZ datum

Signed: Licensed Cadastral Surveyor

Date: 05/07/2022

Name: Kendall Reid

C:\22DS\ENERGY\DATA\WP-PEN-APP-01\37611 - PRECINCT 6 STAGE 1_484\CAD\SURV\AB\37611_01_1101_AB CUT FILL CONTOURS.DWG, 2022-Jul-05 08:11, DWG TO PDF - HIGH-RES PC3, MatHD

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FILE.



NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND
— ZERO CONTOUR
— CUT CONTOUR
— FILL CONTOUR
- - - STAGE BOUNDARIES
— LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

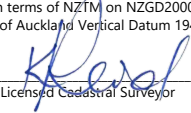


ARRAN HILL
PRECINCT 6 - STAGE 1

CUT AND FILL ASBUILT
SHEET 3 OF 3
ORIGINAL SURFACE TO
LOWEST SURFACE

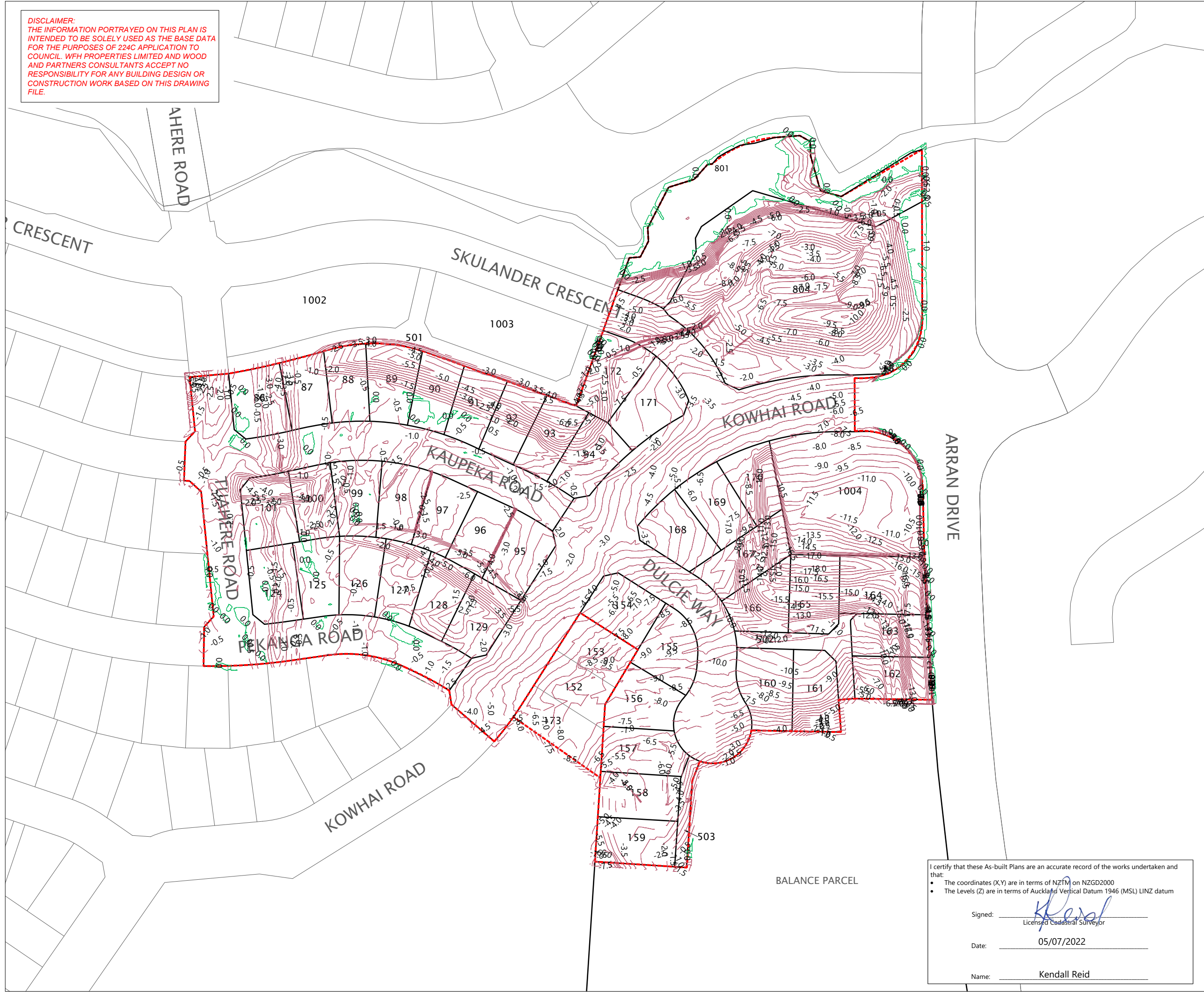
STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1102-AB	

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• The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Licensed Cadastral Surveyor

Date: 05/07/2022

Name: Kendall Reid



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NOTES

1. SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.

LEGEND

- RE SLOPE/ RETAINING WALL DRAINAGE
UNDERFILL DRAINS
COUNTERFORT DRAINS
STAGE BOUNDARIES
LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	JG CIVIL	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

SUBSOIL DRAINAGE ASBUILT PLAN
LAYOUT SHEET
SHEET 1 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1200-AB	

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

NOTES

1. SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.

LEGEND

- RE SLOPE/ RETAINING WALL DRAINAGE
- UNDERFILL DRAINS
- COUNTERFORT DRAINS
- STAGE BOUNDARIES
- LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	JG CIVIL	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

SUBSOIL DRAINAGE ASBUILT PLAN
SHEET 2 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1201-AB	

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Signed: 
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid



NOTES

1. SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.

LEGEND

- RE SLOPE/ RETAINING WALL DRAINAGE
UNDERFILL DRAINS
COUNTERFORT DRAINS
STAGE BOUNDARIES
LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR DRAFT	MD	05/07/22

SURVEYED	JG CIVIL	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

SUBSOIL DRAINAGE ASBUILT PLAN
SHEET 3 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1202-AB	

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

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NOTES

1. SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.

LEGEND

- RE SLOPE/ RETAINING WALL DRAINAGE
UNDERFILL DRAINS
COUNTERFORT DRAINS
STAGE BOUNDARIES
LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	JG CIVIL	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

SUBSOIL DRAINAGE ASBUILT PLAN
SHEET 4 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1203-AB	

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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) LINZ datum

Signed: Kendall Reid
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

C:\123DS\ENERGY\DATA\WP-PEN-APP-01\37611-01-1203-AB SUBSOIL DRAINAGE.DWG, 2022-Jul-05 08:06, PRINT AS PDF-FLAT, PC3, MaxD



NOTES

1. SUBSOIL DRAINAGE DATA SUPPLIED BY CONTRACTOR.

LEGEND

- RE SLOPE/ RETAINING WALL DRAINAGE
UNDERFILL DRAINS
COUNTERFORT DRAINS
STAGE BOUNDARIES
LOT BOUNDARIES

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	JG CIVIL	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

SUBSOIL DRAINAGE ASBUILT PLAN
SHEET 5 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1204-AB	

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH PROPERTIES LIMITED AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

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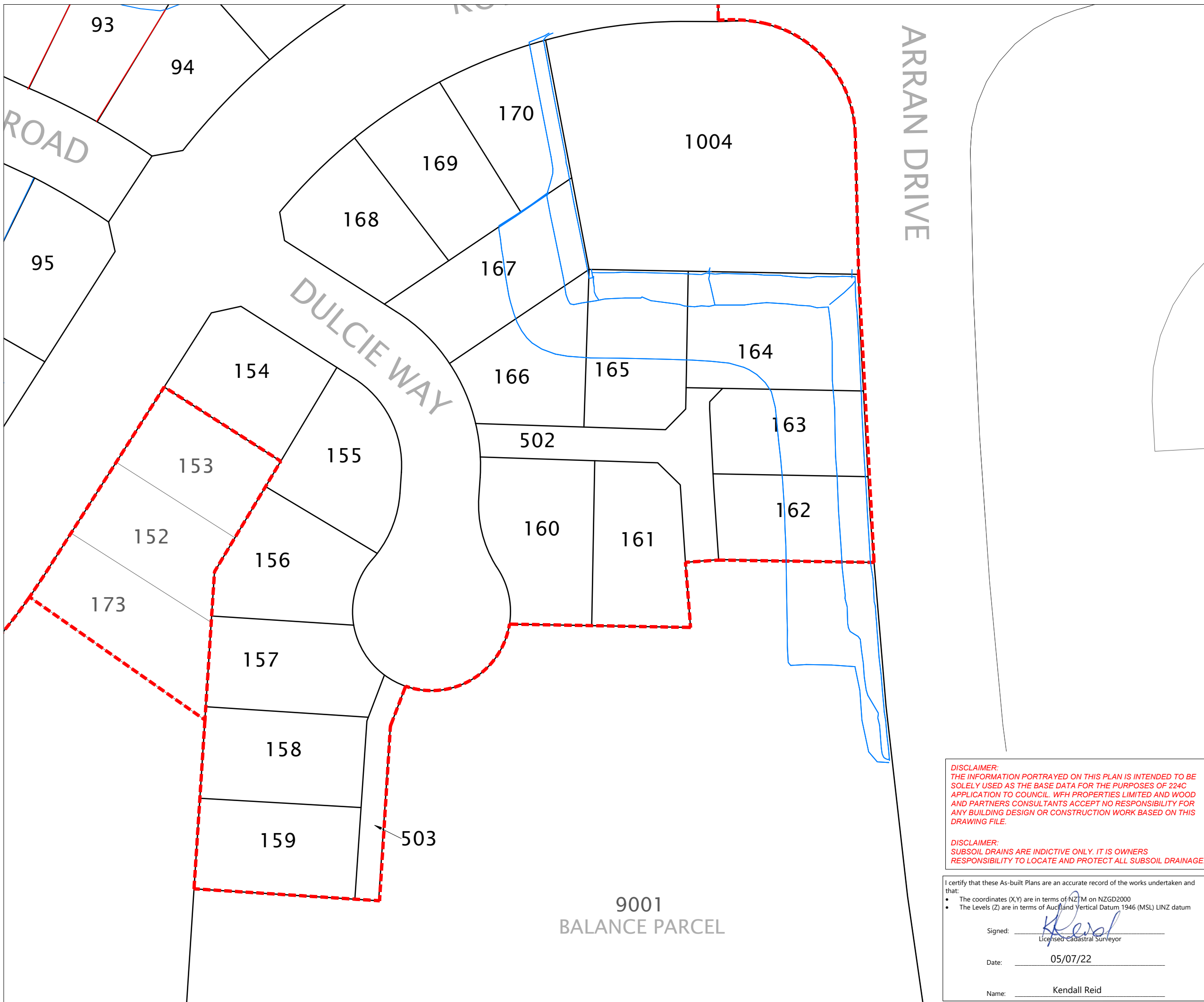
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Kendall Reid
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid



C:\12DS\ENERGY\DATA\WP-PEN-APP-01\37611-01-1204-AB SUBSOIL DRAINAGE.DWG, 2022-Jul-05
0806, PRINT AS PDF, PC3, Matd

DISCLAIMER:
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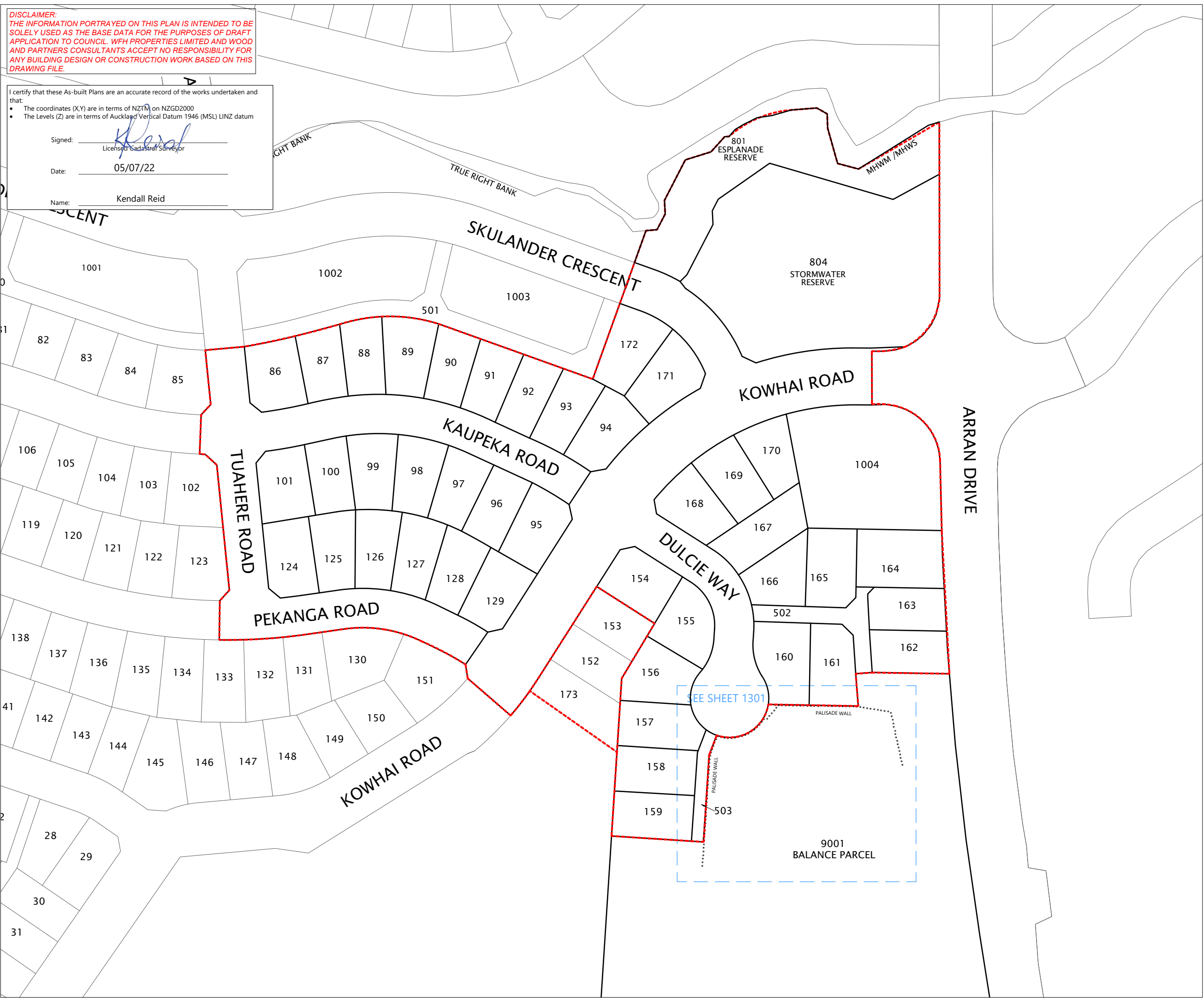
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum




Signed:  Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid



LEGEND:

-  STEEL REINFORCED CONCRETE PILE
-  LOT BOUNDARY
-  STAGE BOUNDARY

NOTES:

- PILES ARE 500mm IN DIAMETER
- PILES DATA SUPPLIED BY CONTRACTOR

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	KR	
APPROVED	KR	





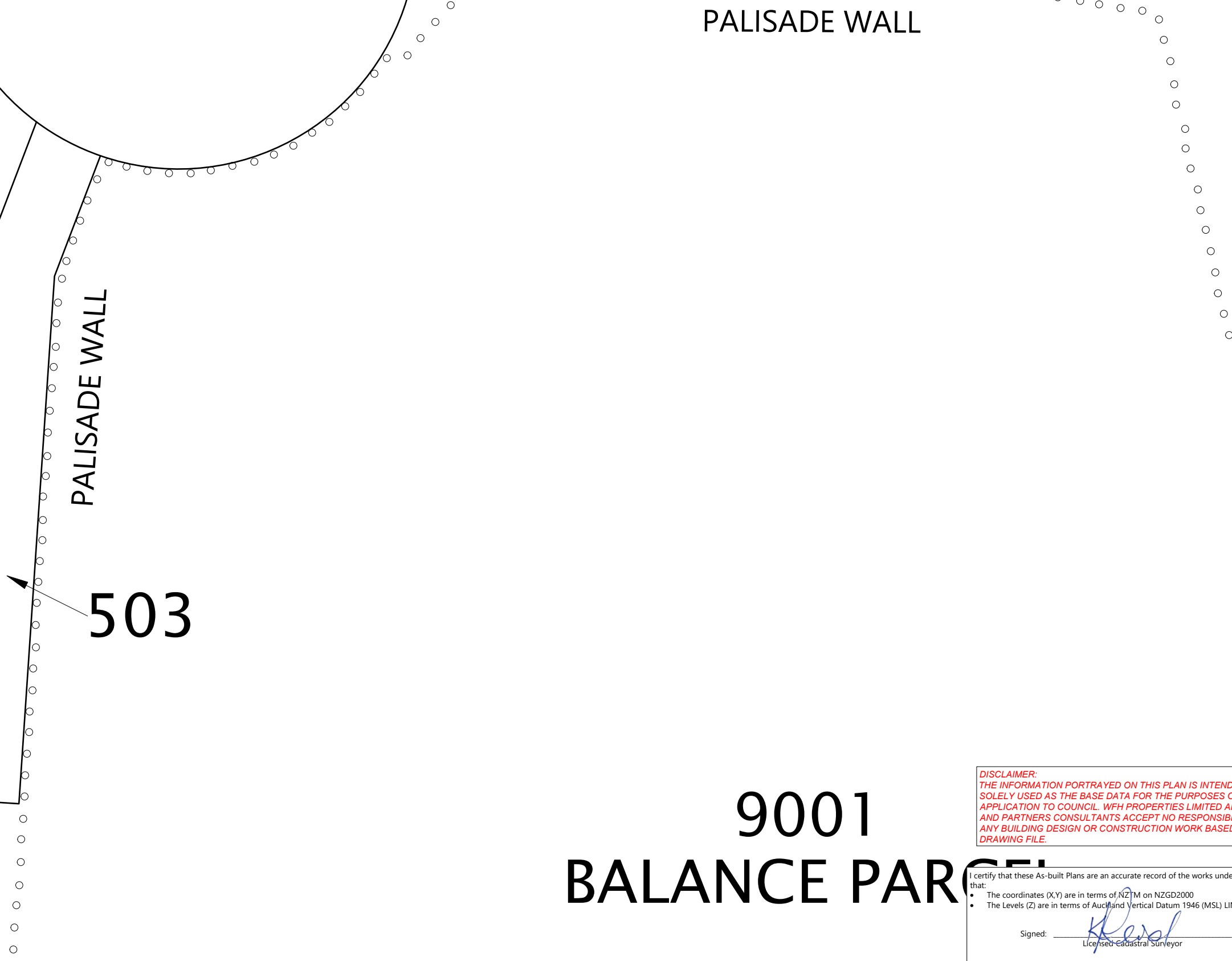
ARRAN HILL
PRECINCT 6 - STAGE 1

PALISADE WALL ASBUILT
LAYOUT PLAN
SHEET 1 OF 2

STATUS	ISSUED FOR 224C	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-1300-AB	



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DWG TO PDF - HIGH-RES.PC3, MatD



LEGEND:

○ STEEL REINFORCED CONCRETE PILE

— LOT BOUNDARY

— STAGE BOUNDARY

NOTES:

-PILES ARE 500mm IN DIAMETER

-PILES DATA SUPPLIED BY CONTRACTOR

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	EC	
CHECKED	KR	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

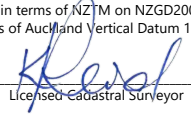
PALISADE WALL ASBUILT
SHEET 2 OF 2

STATUS	ISSUED FOR 224C	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-1301-AB	

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

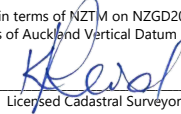
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DWG TO PDF - HIGH-RES.PC3, MatD

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Signed: 
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid



- LEGEND:
- BOTTOM FACE OF WALL
 - TOP FACE OF WALL
 - RE SLOPE / RETAINING WALL DRAINAGE
 - FENCE
 - TOP OF BANK
 - BOTTOM OF BANK
 - BOUNDARY
 - 0.10m OFFSET TO BOUNDARY (FROM WALL)
 - STORMWATER LINE & MANHOLE
 - SLOPE STABILISATION DEVICE

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

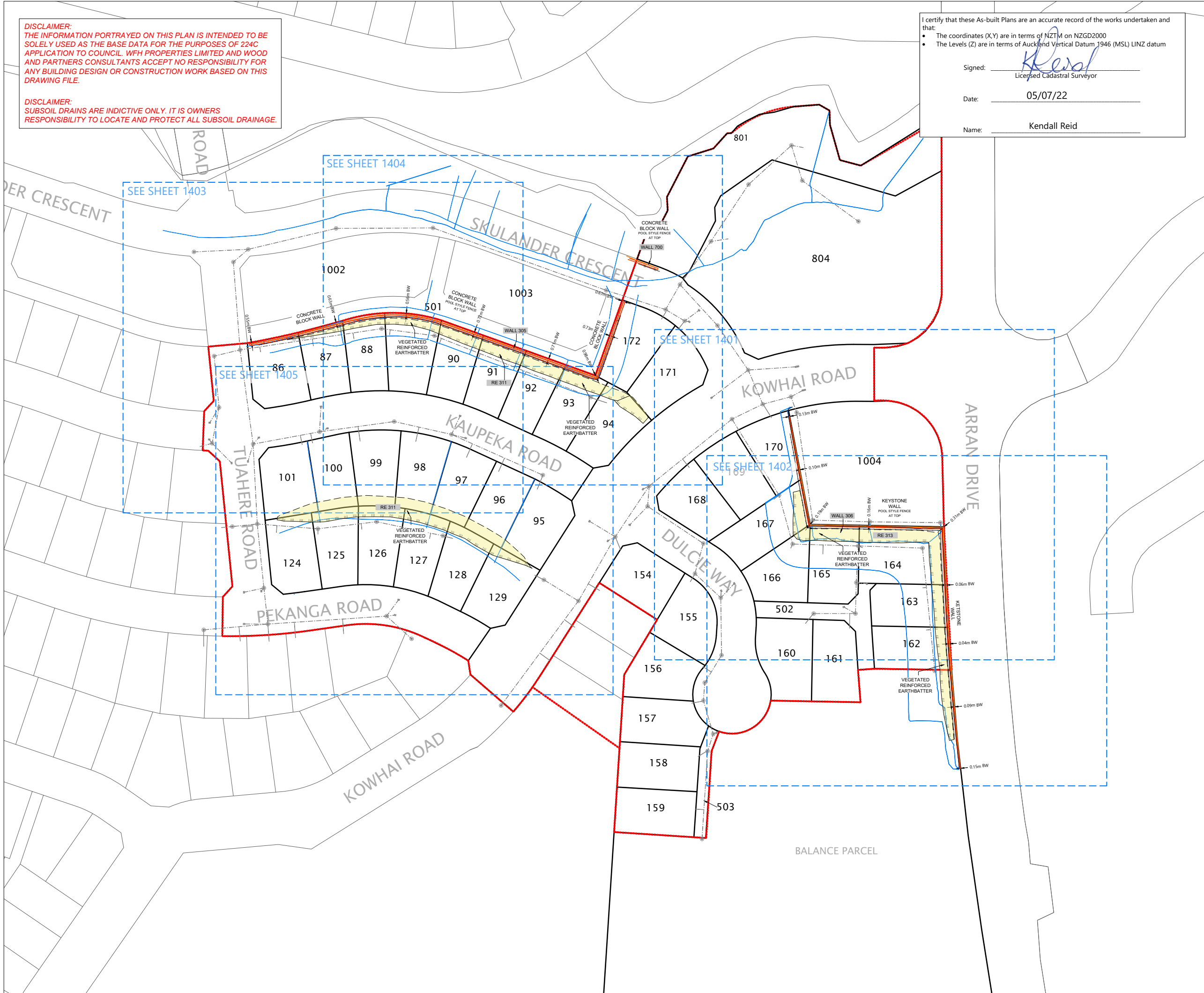
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



ARRAN HILL
PRECINCT 6 - STAGE 1

RETAINING WALL ASBUILT
LAYOUT PLAN
SHEET 1 OF 6

STATUS	ISSUED FOR 224C	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1400-AB	



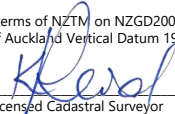
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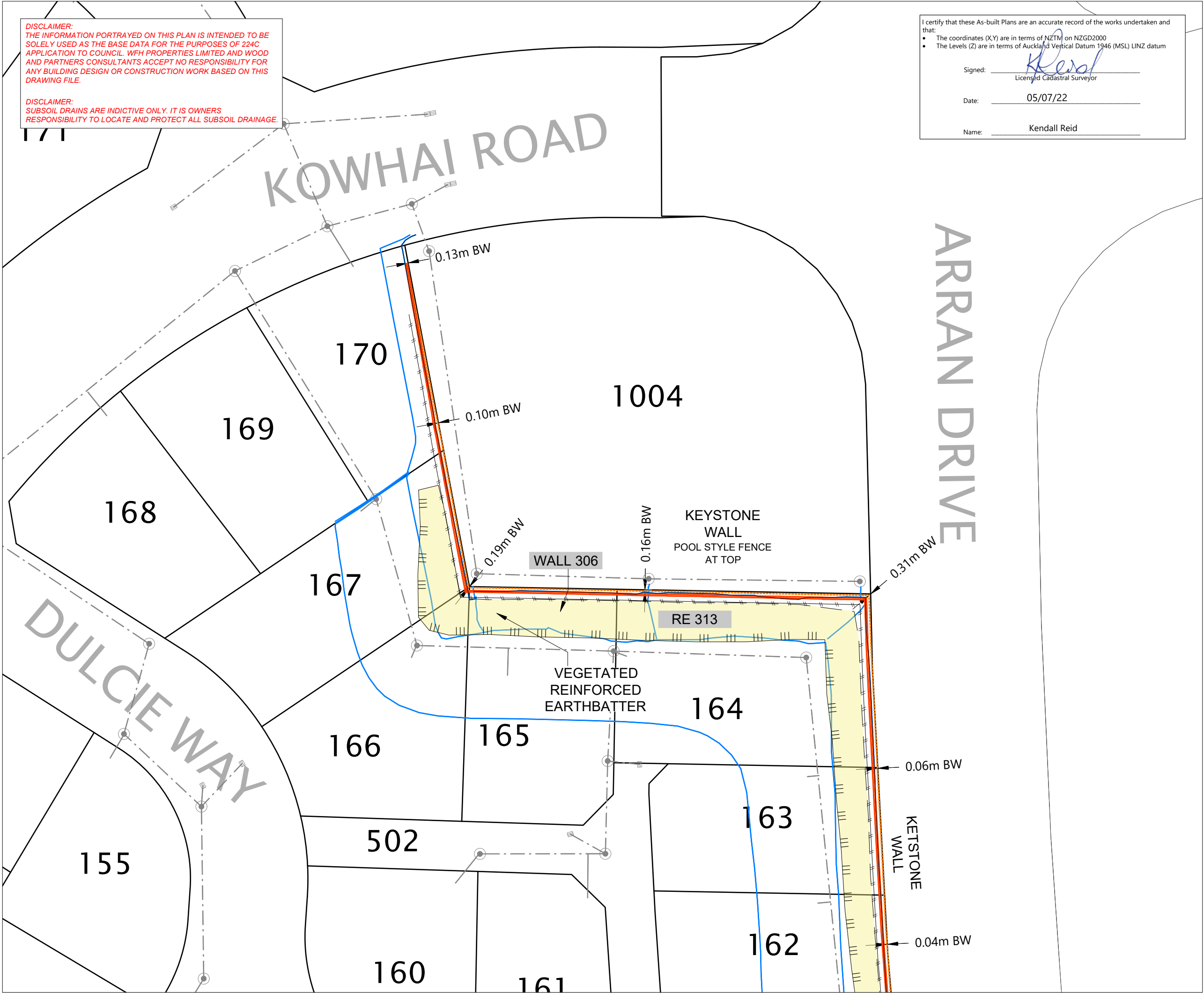
Date: 05/07/22

Name: Kendall Reid



LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
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- TOP OF BANK
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- BOUNDARY
- 0.10m OFFSET TO BOUNDARY (FROM WALL)
- STORMWATER LINE & MANHOLE
- SLOPE STABILISATION DEVICE



REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	RV	
CHECKED	KR	
APPROVED	KR	



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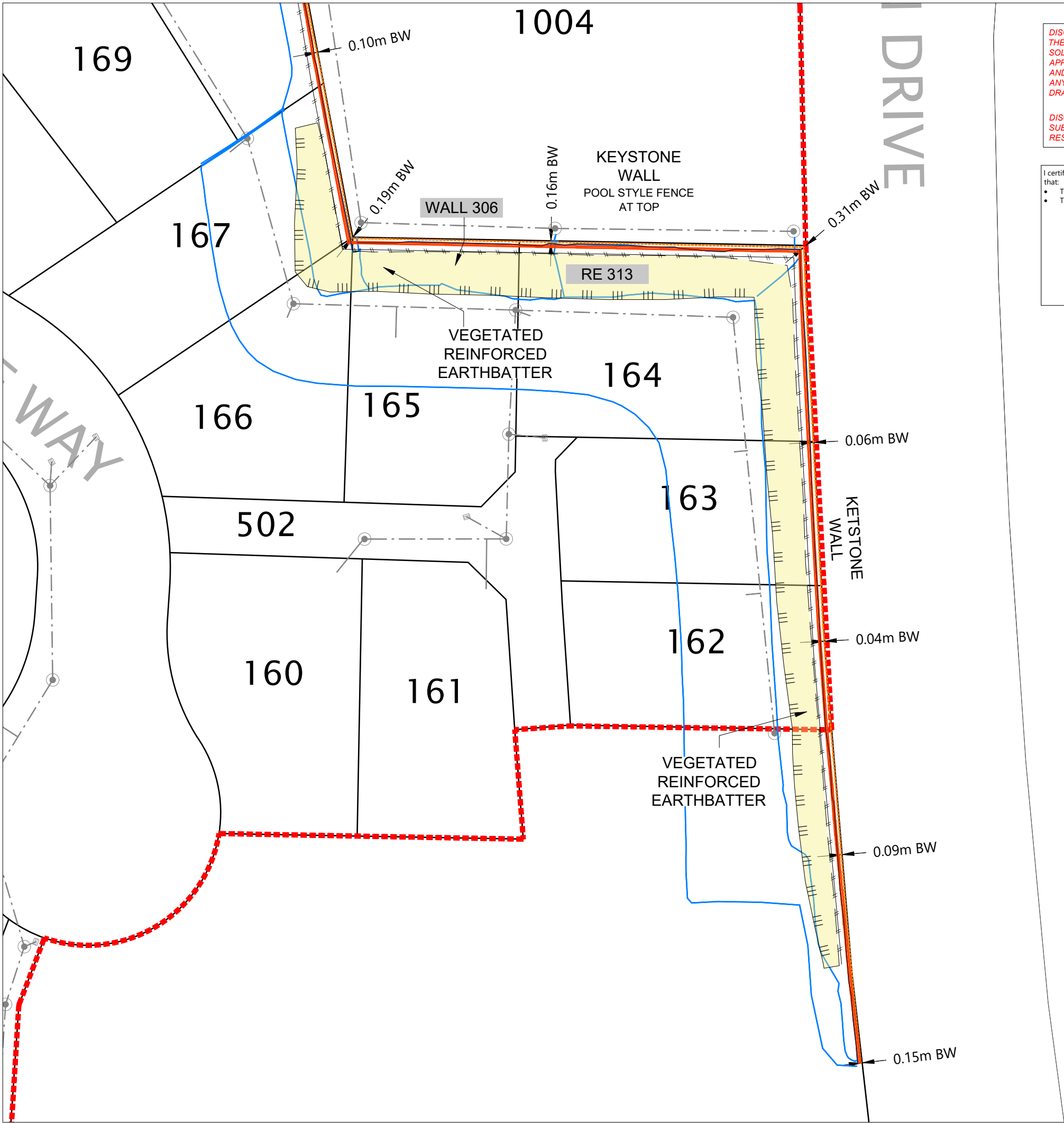


**ARRAN HILL
PRECINCT 6 - STAGE 1**

**RETAINING WALL ASBUILT
SHEET 2 OF 6**

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1401-AB	

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Signed: Kendall Reid
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

LEGEND:

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- TOP FACE OF WALL
- RE SLOPE / RETAINING WALL DRAINAGE
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- BOUNDARY
- 0.10m OFFSET TO BOUNDARY (FROM WALL)
- STORMWATER LINE & MANHOLE
- SLOPE STABILISATION DEVICE

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

**ARRAN HILL
PRECINCT 6 - STAGE 1**

**RETAINING WALL ASBUILT
SHEET 3 OF 6**

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1402-AB	

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- 0.10m OFFSET TO BOUNDARY (FROM WALL)
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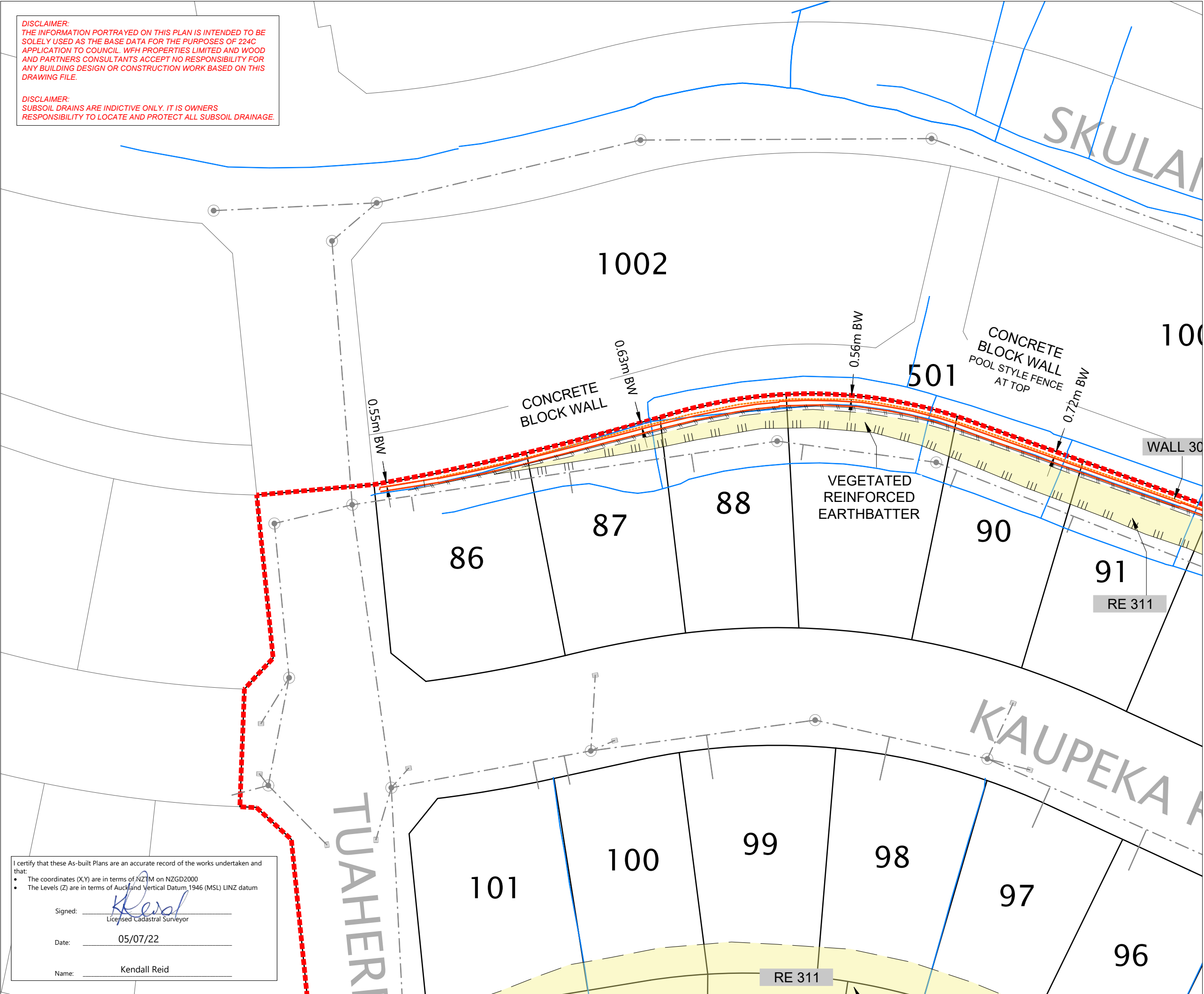
REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

RETAINING WALL ASBUILT
SHEET 4 OF 6

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1403-AB	



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Signed: Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

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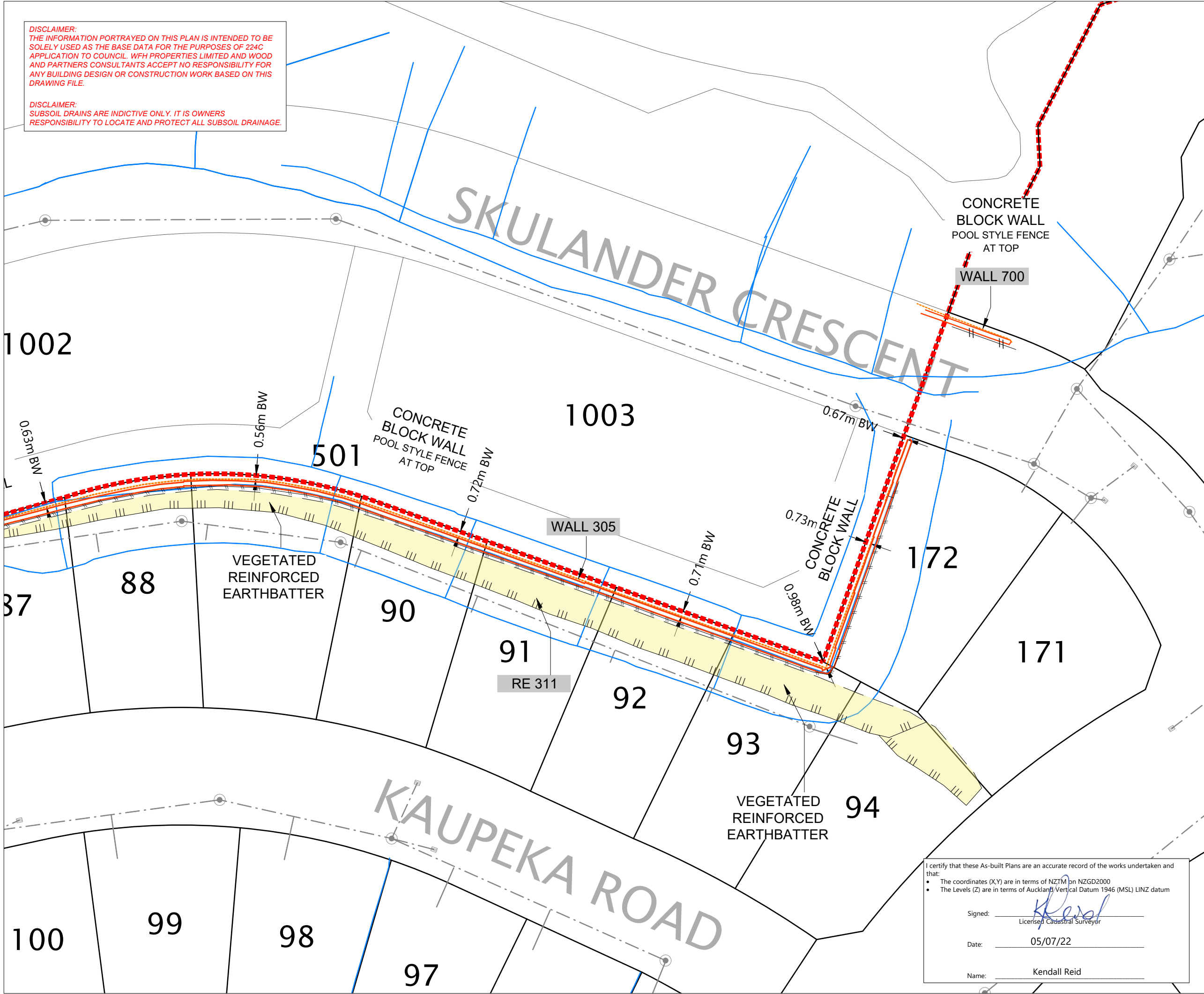
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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

**ARRAN HILL
PRECINCT 6 - STAGE 1**

**RETAINING WALL ASBUILT
SHEET 5 OF 6**

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1404-AB	

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Signed: Licensed Cadastral Surveyor

Date: 05/07/22

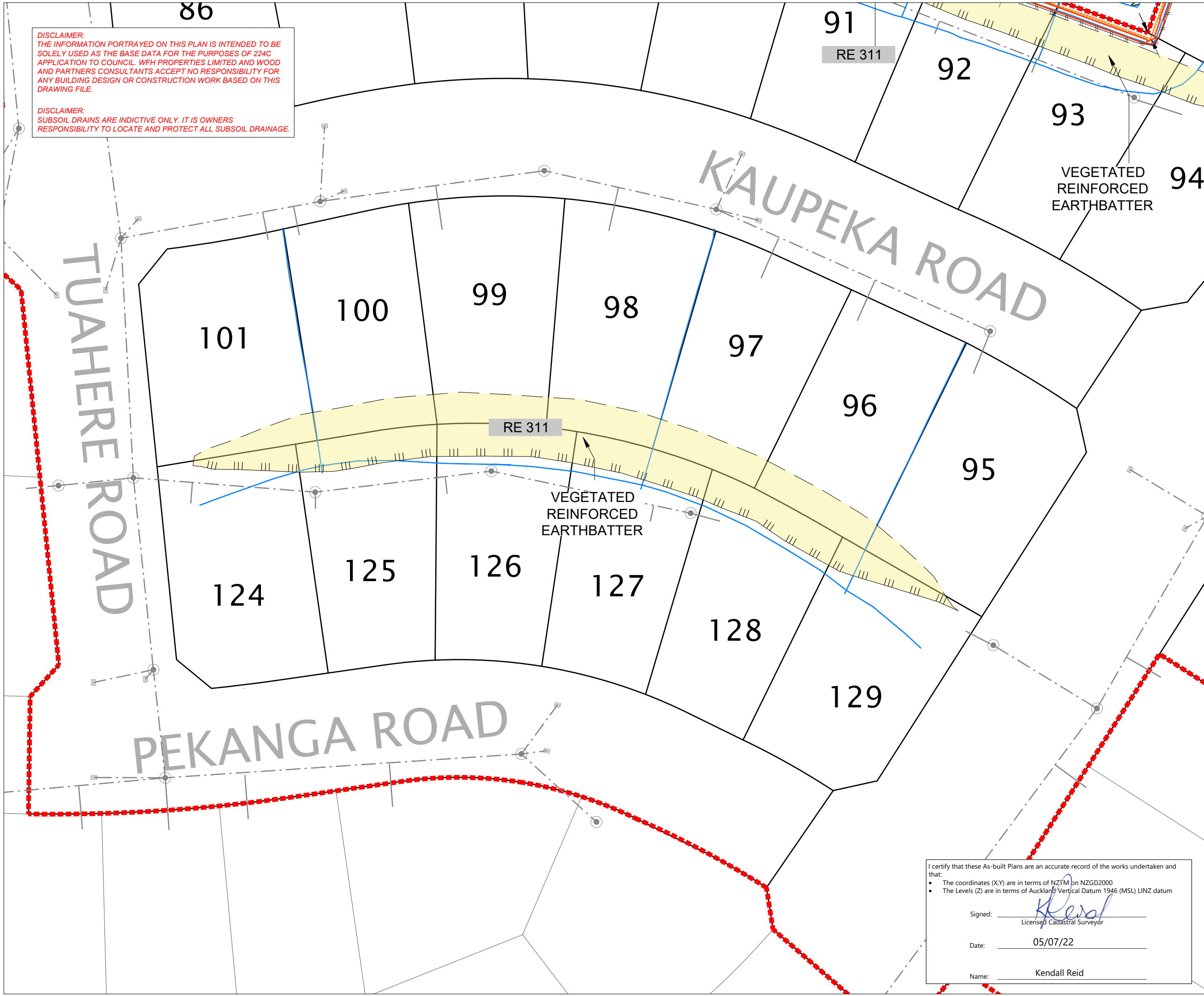
Name: Kendall Reid

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LEGEND:

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- RE SLOPE / RETAINING WALL DRAINAGE
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- BOUNDARY
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- STORMWATER LINE & MANHOLE
- SLOPE STABILISATION DEVICE

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

RETAINING WALL ASBUILT
SHEET 6 OF 6

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1405-AB	

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Signed: Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Licensed Cadastral Surveyor

Date: 05/07/22

Name: Kendall Reid

LEGEND

BOUNDARY —

STAGE BOUNDARY - - - - -

SLOPE GRADIENT

LESS THAN 1V:4H

1V:3H - 1V:4H

1V:2H - 1V:3H

STEEPER THAN 1V:2H

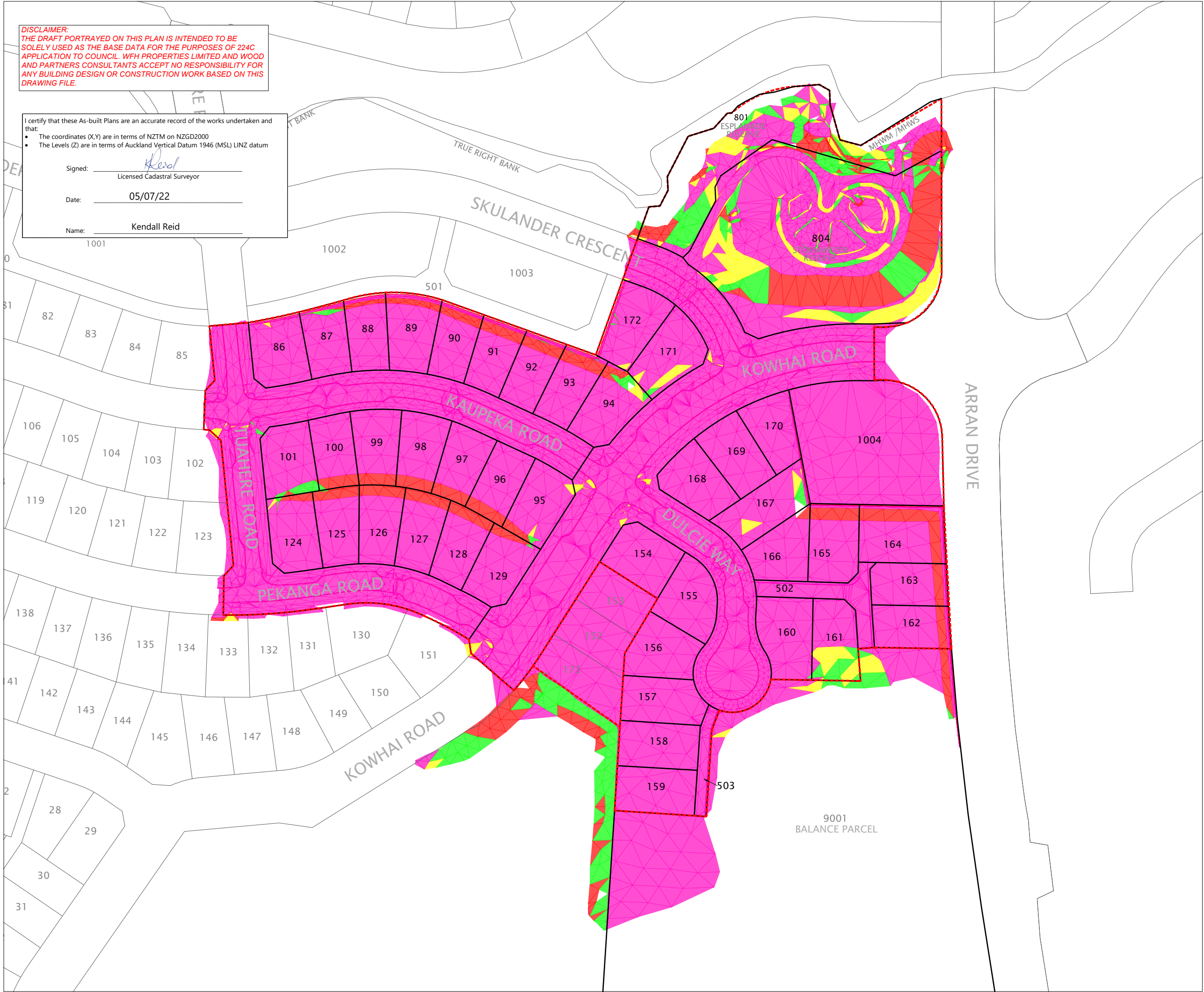
REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

SLOPE GRADIENT ASBUILT PLAN

STATUS	ISSUED FOR 224C	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-1500-AB	



STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

SS MANHOLE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

WATER MANIFOLD BOX

TELECOMMUNICATIONS MH

POWER BOX

TELECOM PLINTH

TACTILE PAVING

PW39 SIGN (SPEED HUMP)

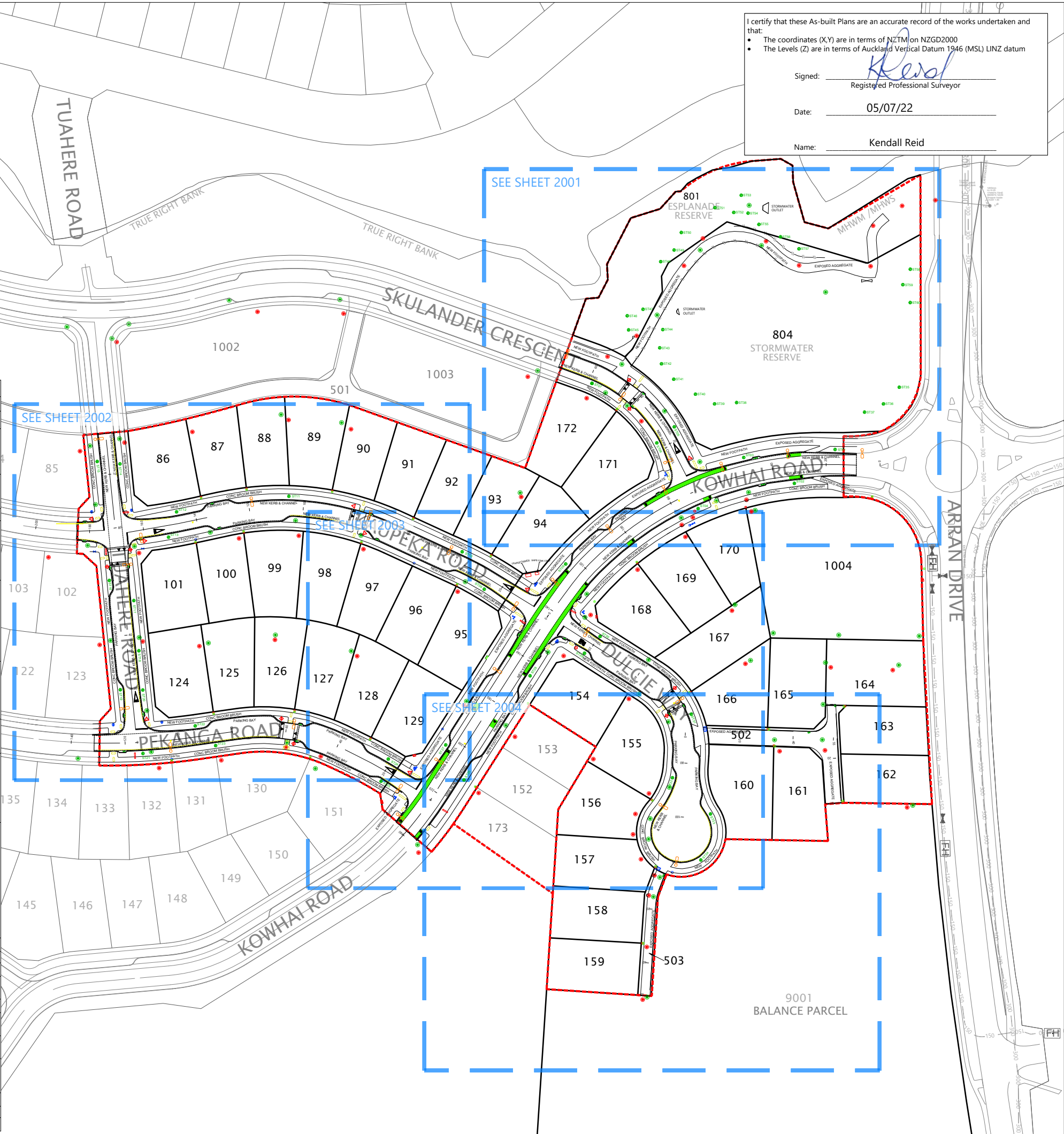
POWER LINK PILLAR

FENCE

NOTE: ORANGE SYMBOLOGY

= PENDING FINAL SURVEY

SCHEDULE OF COORDINATES			
STREET TREES			
ID	EASTING	NORTHING	SPECIES
ST01	1749417.34	5948983.77	TOTARA
ST02	1749402.24	5948971.20	
ST03	1749383.44	5948980.79	
ST04	1749366.54	5948961.86	PRYUS
ST05	1749357.69	5948992.17	
ST06	1749351.22	5948986.20	
ST07	1749327.17	5949008.26	TOTARA
ST08	1749317.42	5948941.29	
ST09	1749287.20	5948931.94	
ST10	1749279.02	5948945.83	LIQUIDAMBAR
ST11	1749214.73	5948966.41	
ST12	1749173.07	5948960.63	
ST13	1749170.09	5948951.25	PRYUS
ST14	1749152.07	5948978.41	
ST15	1749143.63	5948979.31	
ST16	1749148.13	5948935.20	LIQUIDAMBAR
ST17	1749157.22	5948927.74	
ST18	1749159.09	5948909.11	
ST19	1749152.20	5948894.66	TOTARA
ST20	1749160.55	5948894.55	
ST21	1749160.59	5948871.03	
ST22	1749179.99	5948881.24	PRYUS
ST23	1749187.56	5948873.95	
ST24	1749251.61	5948868.96	
ST25	1749248.91	5948860.73	TOTARA
ST26	1749279.70	5948861.21	
ST27	1749272.91	5948874.19	
ST28	1749304.20	5948899.82	PRYUS
ST29	1749324.39	5948908.20	
ST30	1749330.17	5948914.41	
ST31	1749364.00	5948885.58	TOTARA
ST32	1749357.02	5948862.02	
ST33	1749371.12	5948848.59	
ST34	1749367.55	5948831.52	PRYUS
ST35	1749441.16	5949006.85	
ST36	1749435.31	5949000.66	
ST37	1749428.28	5948997.60	TOTARA
ST38	1749380.81	5949001.16	
ST39	1749372.64	5949000.67	
ST40	1749365.55	5949004.27	KAHIKATEA
ST41	1749357.5	5949009.82	
ST42	1749352.95	5949015.54	
ST43	1749352.29	5949021.46	PURIRI
ST44	1749353.43	5949028.22	
ST45	1749340.75	5949028.12	
ST46	1749340.24	5949033.35	KAHIKATEA
ST47	1749346.10	5949035.76	
ST48	1749352.65	5949053.43	
ST49	1749357.62	5949057.73	PURIRI
ST50	1749360.30	5949064.24	
ST51	1749372.77	5949073.44	
ST52	1749379.76	5949071.68	TOTARA
ST53	1749382.54	5949078.05	
ST54	1749385.05	5949071.41	
ST55	1749389.08	5949067.24	PURIRI
ST56	1749397.10	5949062.64	
ST57	1749403.95	5949058.19	
ST58	1749445.24	5949050.61	KAHIKATEA
ST59	1749442.49	5949044.88	
ST60	1749445.22	5949038.25	



- NOTES
1. ALL WORKS AND MATERIALS COMPLY WITH LATEST AUCKLAND TRANSPORT DESIGN MANUAL.

2. ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.

3. ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE 30mm THICK.

4. ALL FOOTPATHS ARE 100mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.

5. ALL RAISED CROSSINGS ARE CONSTRUCTED FROM BROOM BRUSH CONCRETE.

6. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED

7. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH PROPERTIES LIMITED AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

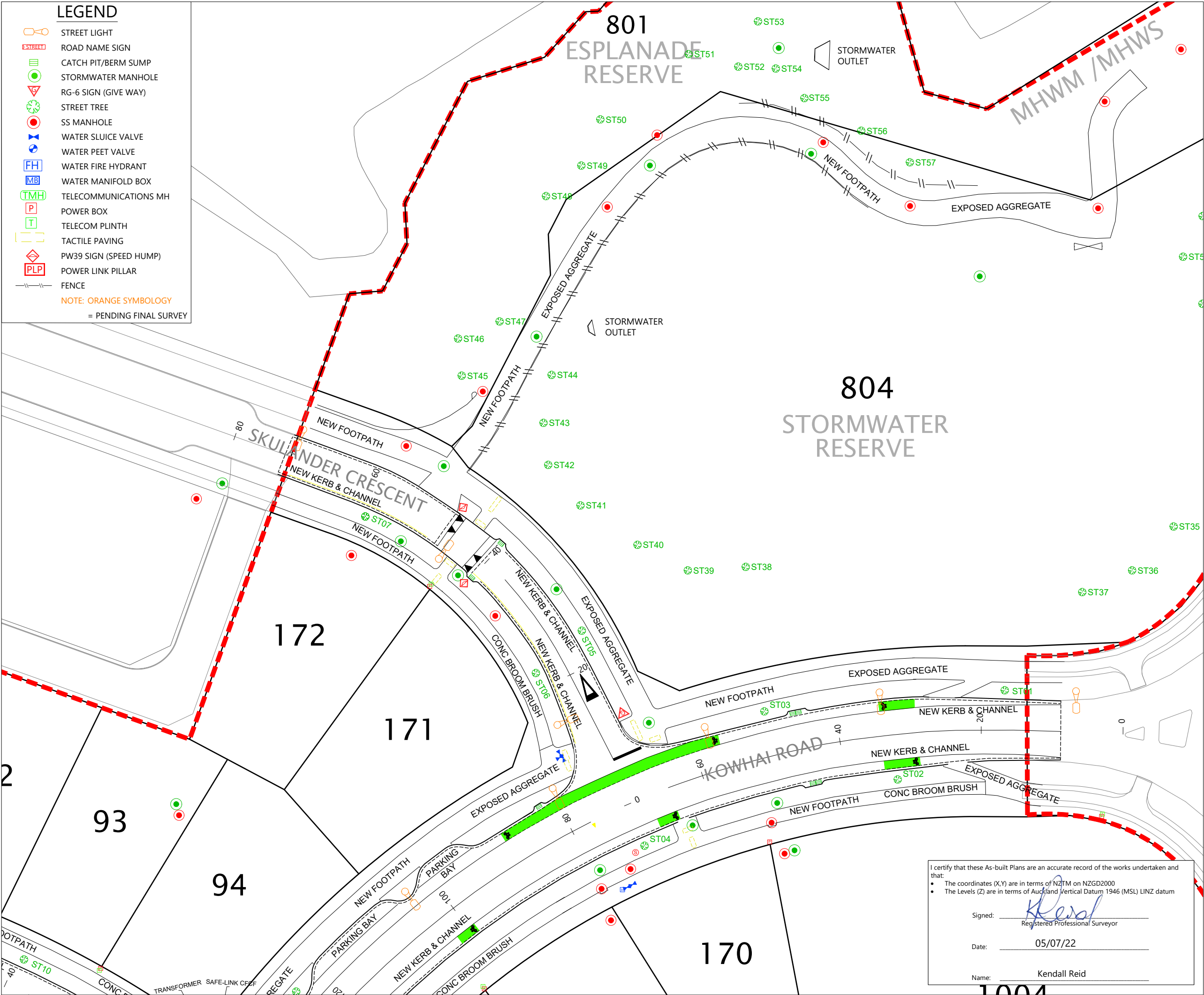
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

ROADING ASBUILT PLAN
OVERALL LAYOUT
SHEET 1 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-2000-AB	





LEGEND

- STREET LIGHT
 - ROAD NAME SIGN
 - CATCH PIT/BERM SUMP
 - STORMWATER MANHOLE
 - RG-6 SIGN (GIVE WAY)
 - STREET TREE
 - SS MANHOLE
 - WATER SLUICE VALVE
 - WATER PEET VALVE
 - WATER FIRE HYDRANT
 - WATER MANIFOLD BOX
 - TELECOMMUNICATIONS MH
 - POWER BOX
 - TELECOM PLINTH
 - TACTILE PAVING
 - PW39 SIGN (SPEED HUMP)
 - POWER LINK PILLAR
 - FENCE
- NOTE: ORANGE SYMBOLOGY = PENDING FINAL SURVEY

NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

ROADING ASBUILT PLAN
SHEET 2 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-2001-AB	

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
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

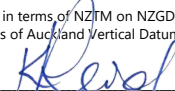
Date: 05/07/22

Name: Kendall Reid

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Registered Professional Surveyor

Date: 05/07/22

Name: Kendall Reid

- NOTES**
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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	



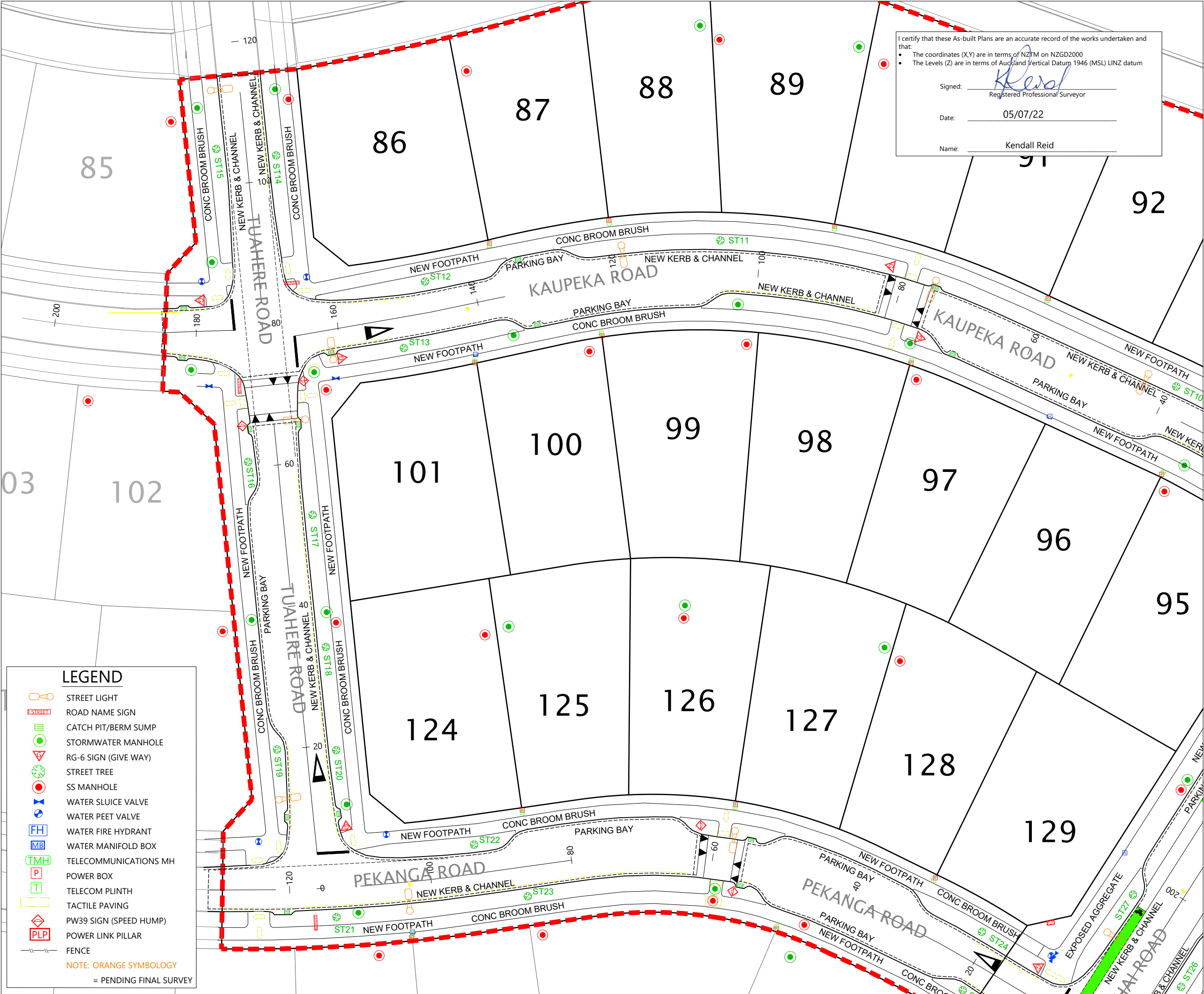
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**ARRAN HILL
PRECINCT 6 - STAGE 1**

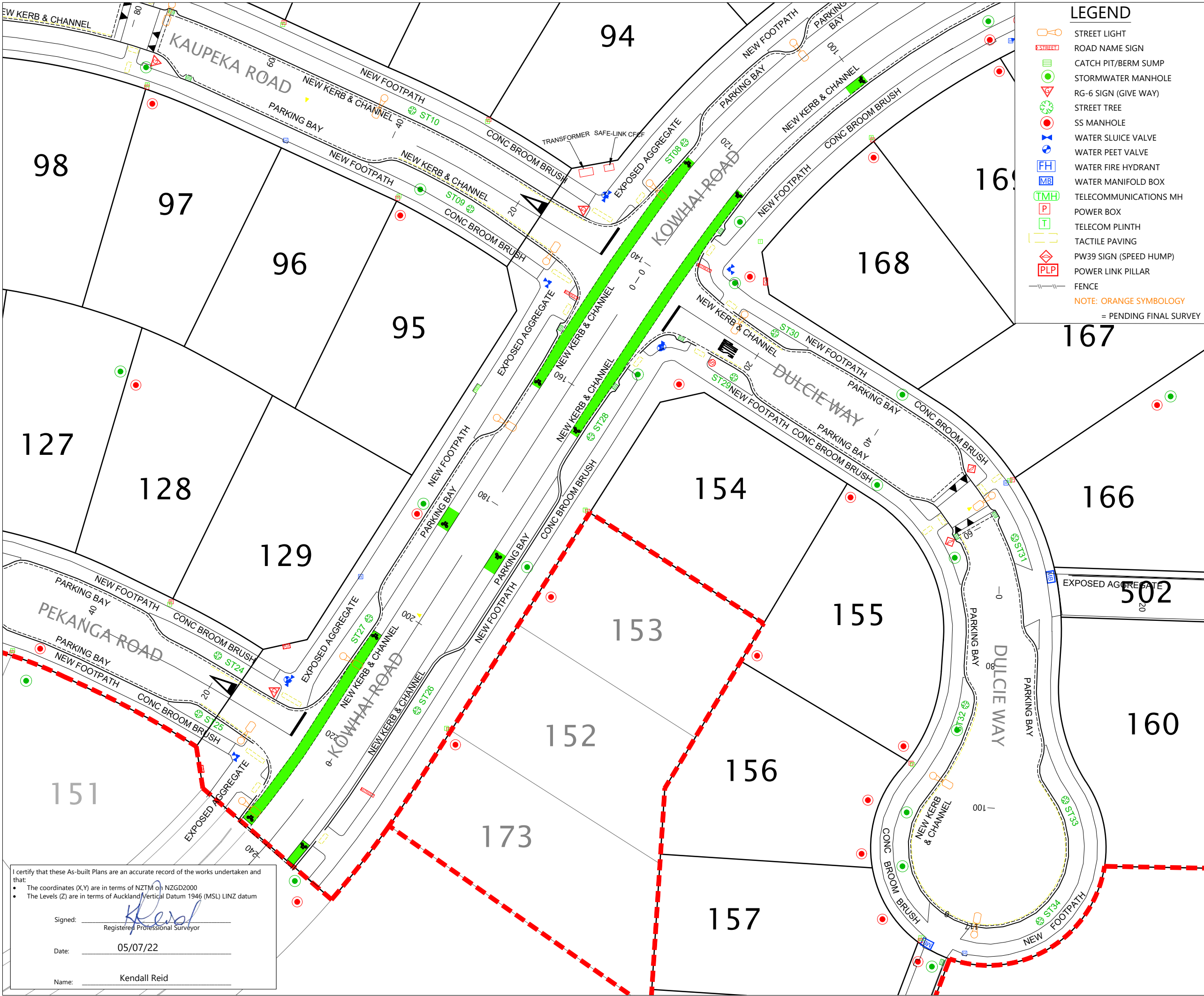
ROADING ASBUILT PLAN
SHEET 3 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-2002-AB	



LEGEND

-  STREET LIGHT
 -  ROAD NAME SIGN
 -  CATCH PIT/BERM SUMP
 -  STORMWATER MANHOLE
 -  RG-6 SIGN (GIVE WAY)
 -  STREET TREE
 -  SS MANHOLE
 -  WATER SLUICE VALVE
 -  WATER PEET VALVE
 -  WATER FIRE HYDRANT
 -  WATER MANIFOLD BOX
 -  TELECOMMUNICATIONS MH
 -  POWER BOX
 -  TELECOM PLINTH
 -  TACTILE PAVING
 -  PW39 SIGN (SPEED HUMPS)
 -  POWER LINK PILLAR
 -  FENCE
- NOTE: ORANGE SYMBOLOGY
= PENDING FINAL SURVEY



LEGEND

- STREET LIGHT
 - ROAD NAME SIGN
 - CATCH PIT/BERM SUMP
 - STORMWATER MANHOLE
 - RG-6 SIGN (GIVE WAY)
 - STREET TREE
 - SS MANHOLE
 - WATER SLUICE VALVE
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 - POWER BOX
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 - TACTILE PAVING
 - PW39 SIGN (SPEED HUMP)
 - POWER LINK PILLAR
 - FENCE
- NOTE: ORANGE SYMBOLOGY
= PENDING FINAL SURVEY

NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	MD	09 308 9229
CHECKED	RV	
APPROVED	KR	WOODS.CO.NZ

ARRAN HILL
PRECINCT 6 - STAGE 1

ROADING ASBUILT PLAN
SHEET 4 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-2003-AB	

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 or NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 05/07/22

Name: Kendall Reid

C:\12DSYNERGY\DATA\WP-PEN-APP-01\37611 - PRECINCT 6 STAGE 1_48ACAD\SURVAB\37611_01_2000.AB ROAD.DWG, 2022-Jul-05 12:55, PRINT AS PDF.PC3, Mard



NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH LATEST AUCKLAND TRANSPORT DESIGN MANUAL.
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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 - STAGE 1

ROADING ASBUILT PLAN
SHEET 5 OF 5

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-2004-AB	

LEGEND

- STREET LIGHT
 - ROAD NAME SIGN
 - CATCH PIT/BERM SUMP
 - STORMWATER MANHOLE
 - RG-6 SIGN (GIVE WAY)
 - STREET TREE
 - SS MANHOLE
 - WATER SLUICE VALVE
 - WATER PEET VALVE
 - WATER FIRE HYDRANT
 - WATER MANIFOLD BOX
 - TELECOMMUNICATIONS MH
 - POWER BOX
 - TELECOM PLINTH
 - TACTILE PAVING
 - PW39 SIGN (SPEED HUMP)
 - POWER LINK PILLAR
 - FENCE
- NOTE: ORANGE SYMBOLOGY
= PENDING FINAL SURVEY

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

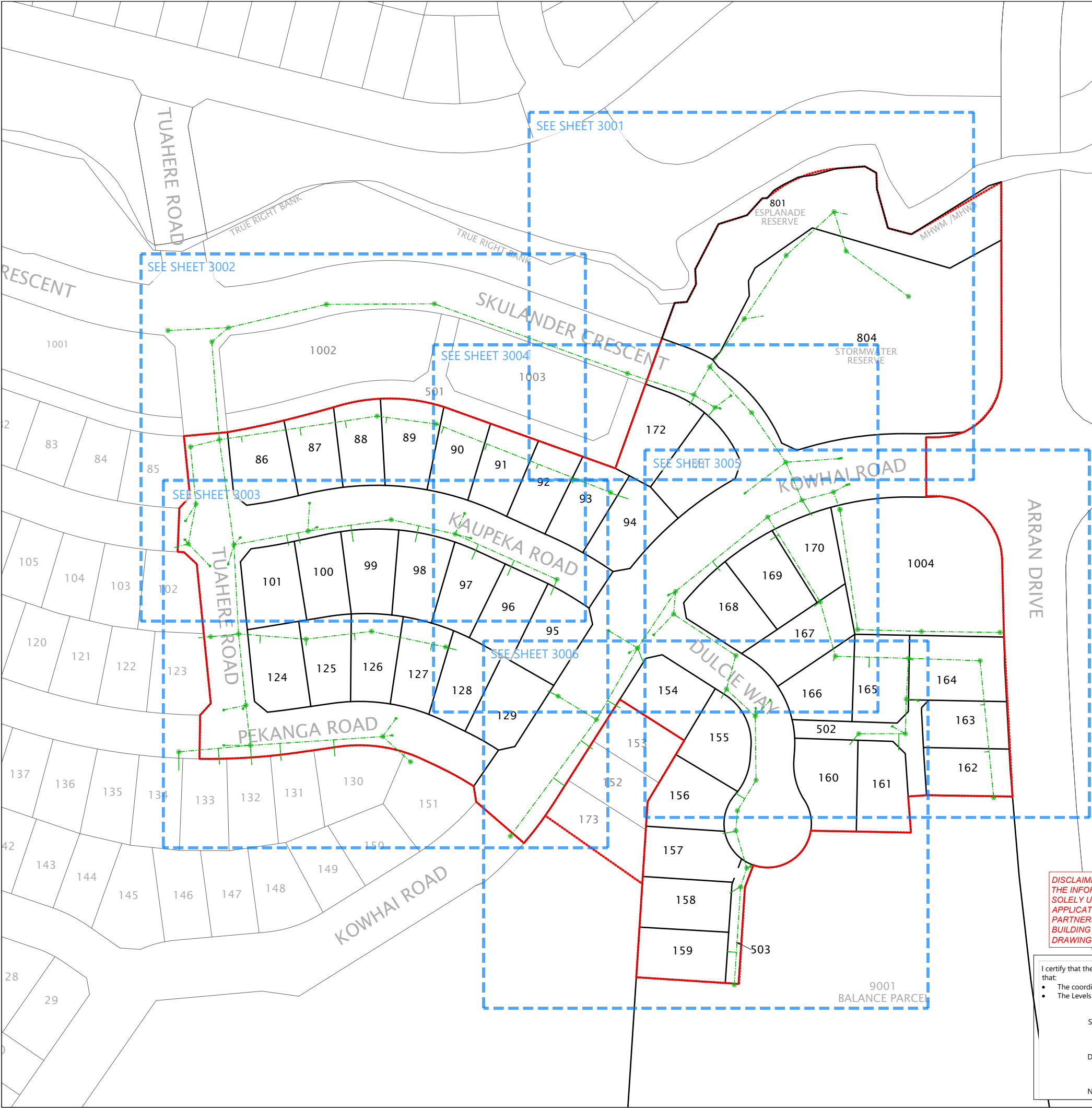
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 05/07/22

Name: Kendall Reid

C:\12DSYNERGY\DATA\WP-PEN-APP-01\37611 - PRECINCT 6 STAGE 1_48ACAD\SURVAB\37611_01_2000.AB ROADING.DWG, 2022-Jul-05 12:55, PRINT AS PDF.PC3, Mattd



SCHEDULE OF COORDINATES		
STORMWATER LOT CONNECTIONS		
NAME	EASTING	NORTHING
Lot 86	1749160.60	5948986.84
Lot 87	1749182.97	5948989.39
Lot 88	1749200.15	5948992.35
Lot 89	1749215.23	5948994.04
Lot 90	1749236.26	5948990.19
Lot 91	1749252.72	5948983.83
Lot 92	1749272.34	5948976.75
Lot 93	1749286.03	5948971.27
Lot 94	1749307.23	5948965.31
Lot 95	1749277.79	5948928.74
Lot 96	1749261.40	5948936.21
Lot 97	1749247.82	5948942.23
Lot 98	1749226.33	5948948.91
Lot 99	1749202.77	5948949.09
Lot 100	1749182.62	5948948.31
Lot 101	1749178.21	5948947.67
Lot 124	1749167.30	5948910.40
Lot 125	1749184.88	5948909.67
Lot 126	1749203.48	5948911.77
Lot 127	1749232.18	5948907.87
Lot 128	1749241.98	5948907.90
Lot 129	1749276.71	5948892.36
Lot 130	1749195.79	5948867.57
Lot 131	1749175.40	5948865.85
Lot 132	1749164.22	5948864.31
Lot 133	1749151.99	5948864.42
Lot 134	1749136.51	5948862.22
Lot 152	1749293.71	5948870.28
Lot 153	1749304.24	5948885.86
Lot 154	1749313.11	5948903.02
Lot 155	1749342.62	5948889.59
Lot 156	1749347.95	5948853.64
Lot 157	1749343.20	5948838.15
Lot 158	1749345.91	5948815.56
Lot 159	1749344.64	5948793.33
Lot 160	1749391.40	5948871.93
Lot 161	1749410.08	5948869.84
Lot 162	1749442.58	5948869.12
Lot 163	1749441.09	5948886.99
Lot 164	1749415.59	5948904.00
Lot 165	1749398.76	5948901.30
Lot 166	1749385.19	5948903.79
Lot 167	1749378.04	5948924.49
Lot 168	1749342.17	5948937.96
Lot 169	1749361.27	5948949.69
Lot 170	1749376.99	5948959.02
Lot 171	1749337.41	5948996.35
Lot 172	1749330.44	5949000.75
Lot 173	1749283.18	5948856.18

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

NOTE: LNS= LID NOT SET AT FINAL LEVEL
LL= LID LEVEL

- NOTES
1.

ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2.

ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
3.

ALL CESSPIT LEADS AND PIPES UNDER THE ROAD AND CARRIDGWAYS 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 SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
6.

ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ uPVC SN16.
7.

LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
8.

ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	06/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 STAGE 1

STORMWATER ASBUILT PLAN
OVERALL LAYOUT
SHEET 1 OF 7

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-3000-AB	

DISCLAIMER:
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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

• The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:

Licensed Cadastral Surveyor

Date: 06/07/22

Name: Kendall Reid

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Signed: 
Licensed Cadastral Surveyor

Date: 06/07/22

Name: Kendall Reid



LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- NEW STORMWATER
- EXISTING STORMWATER
- STAGE BOUNDARY
- NOTE: LNS= LID NOT SET AT FINAL LEVEL
LL= LID LEVEL

NOTES

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- ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ uPVC SN16.
- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	06/07/22

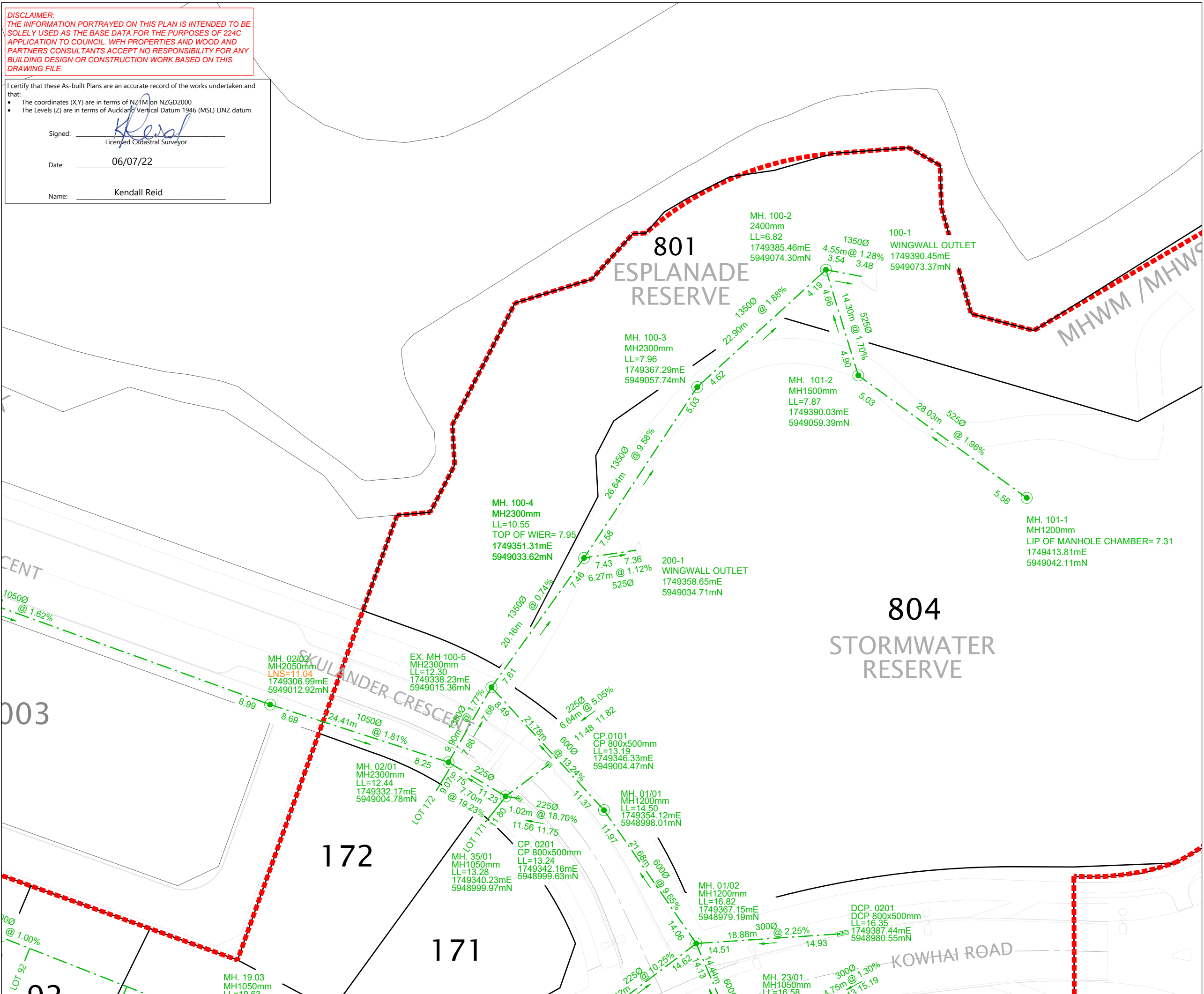
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	



ARRAN HILL PRECINCT 6 STAGE 1

STORMWATER ASBUILT PLAN SHEET 2 OF 7

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-3001-AB	



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Signed: _____
Licensed Cadastral Surveyor

Date: 06/07/22

Name: Kendall Reid

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LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

NOTE: LNS=LID NOT SET AT FINAL LEVEL
LL=LID LEVEL

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 7. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

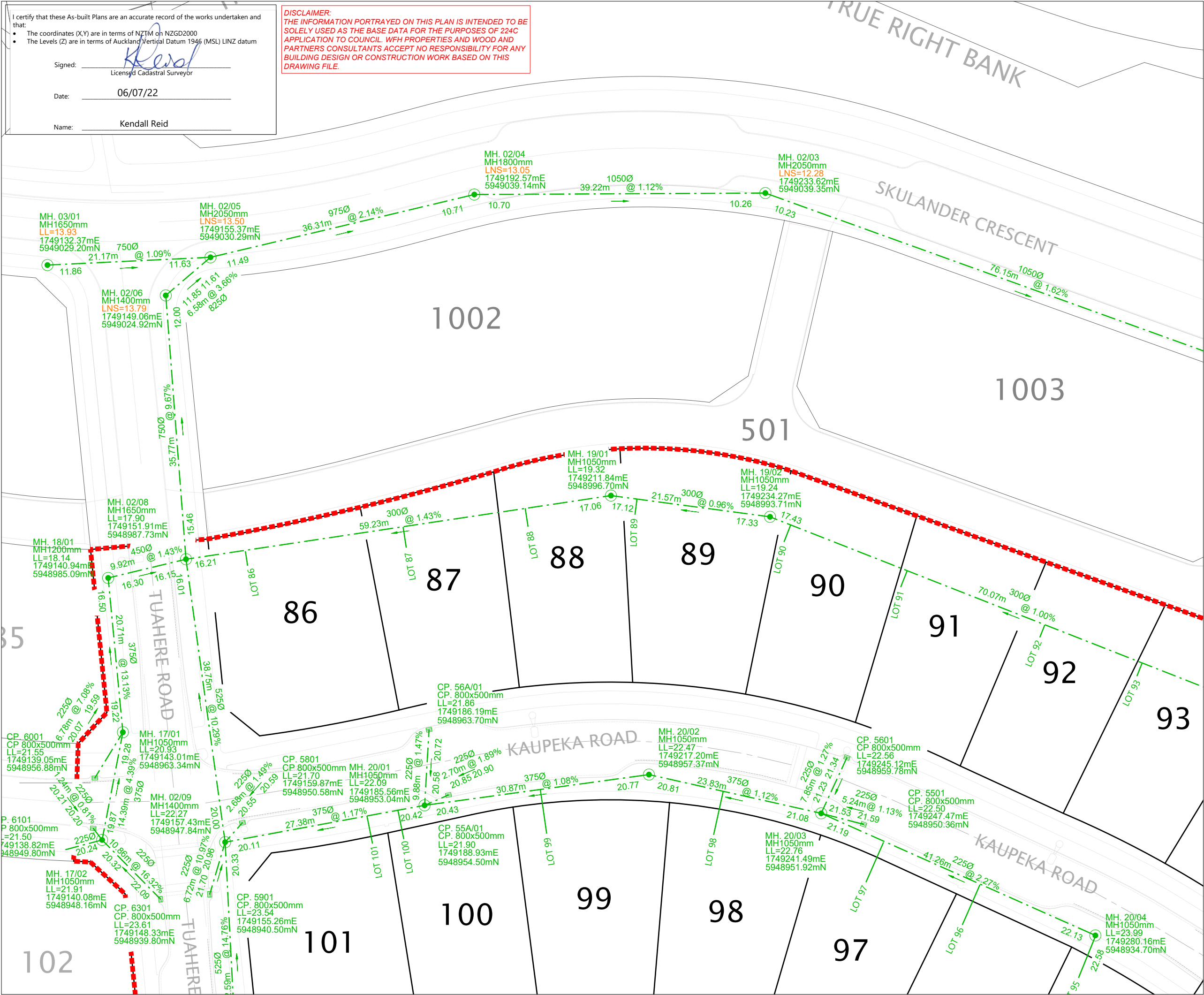
REVISION DETAILS		BY	DATE
1	ISSUED FOR DRAFT	MD	04/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	

**ARRAN HILL
PRECINCT 6 STAGE 1**

**STORMWATER ASBUILT PLAN
SHEET 3 OF 7**

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-3002-AB	



LEGEND

STORMWATER MANHOLE
STORMWATER CESSPIT
NEW STORMWATER
EXISTING STORMWATER
STAGE BOUNDARY
NOTE: LNS= LID NOT SET AT FINAL LEVEL
LL= LID LEVEL



NOTES

- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
- ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
- ALL CESSPIT LEADS AND PIPES UNDER THE ROAD AND CARRIDGWAYS 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 SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
- ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ uPVC SN16.
- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	06/07/22

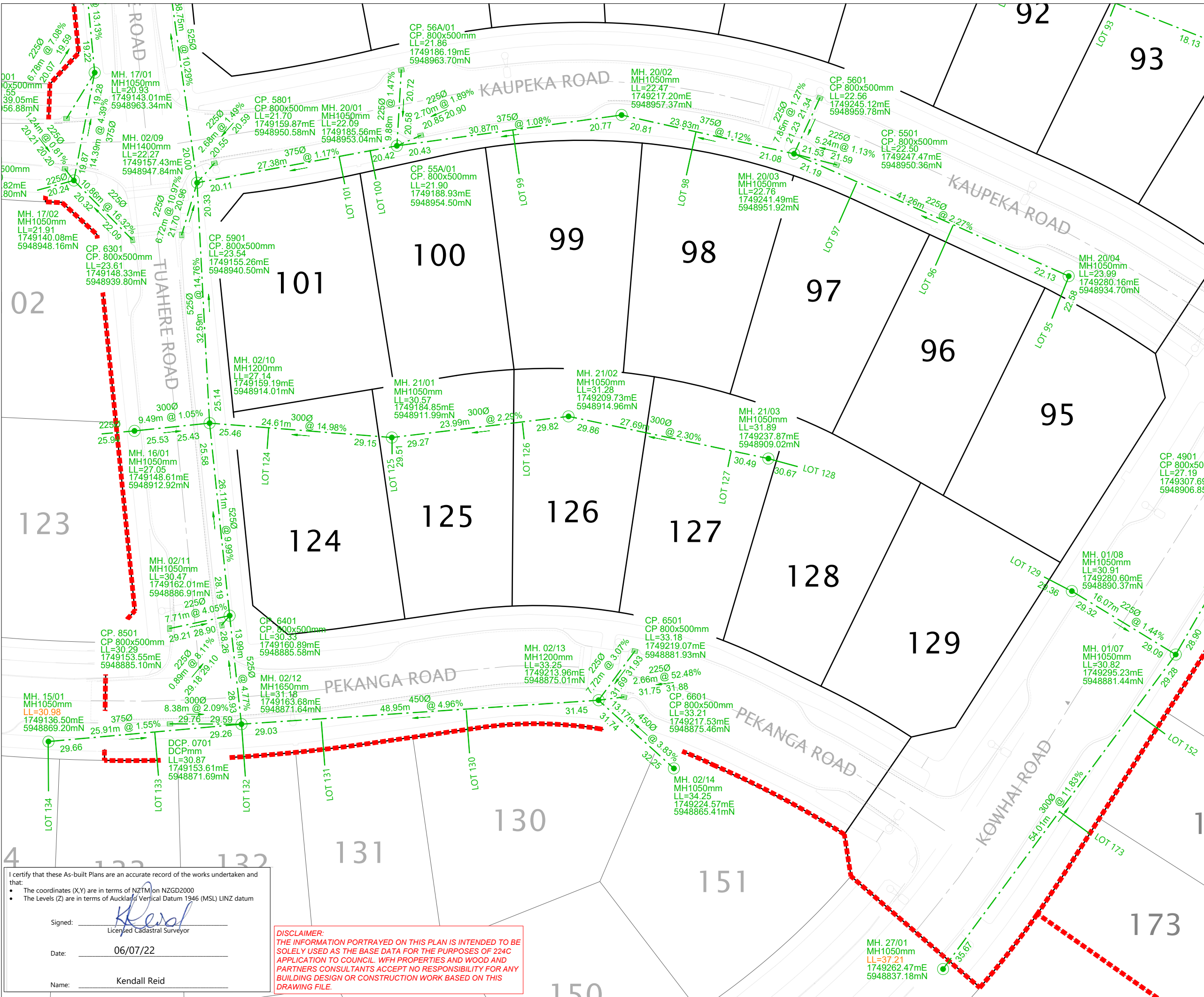
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	



ARRAN HILL PRECINCT 6 STAGE 1

STORMWATER ASBUILT PLAN SHEET 4 OF 7

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-3003-AB	



DISCLAIMER:
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LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

NOTE: LNS= LID NOT SET AT FINAL LEVEL
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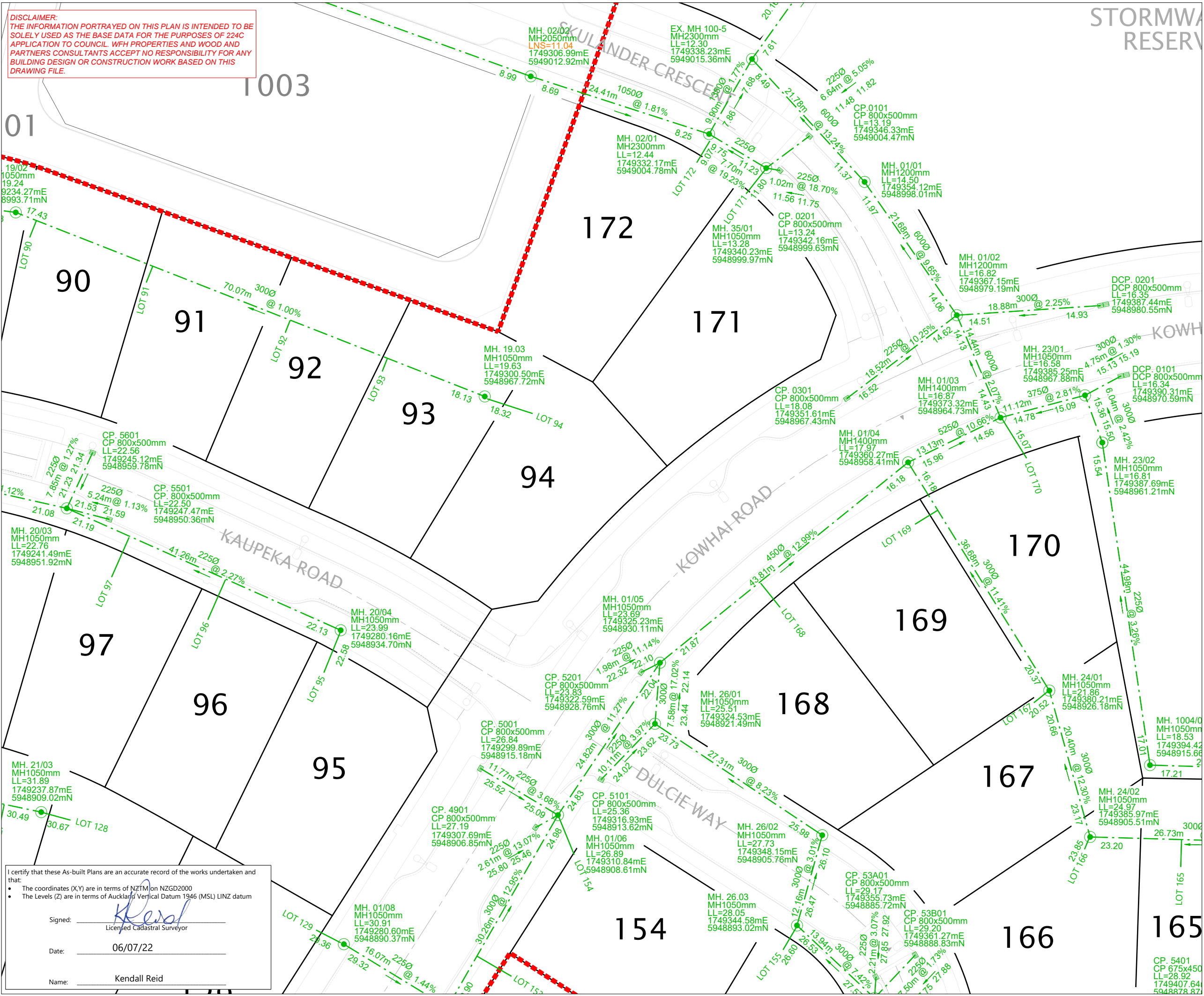
REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	06/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 STAGE 1

STORMWATER ASBUILT PLAN
SHEET 5 OF 7

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-3004-AB	



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
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Licensed Cadastral Surveyor

Date: 06/07/22

Name: Kendall Reid

FOODS
est.1970

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C APPLICATION TO COUNCIL. WFH PROPERTIES AND WOOD AND PARTNER'S CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Licensed Cadastral Surveyor

Date: 06/07/22

Name: Kendall Reid

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

NOTE: LNS= LID NOT SET AT FINAL LEVEL
LL= LID LEVEL

NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	06/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	

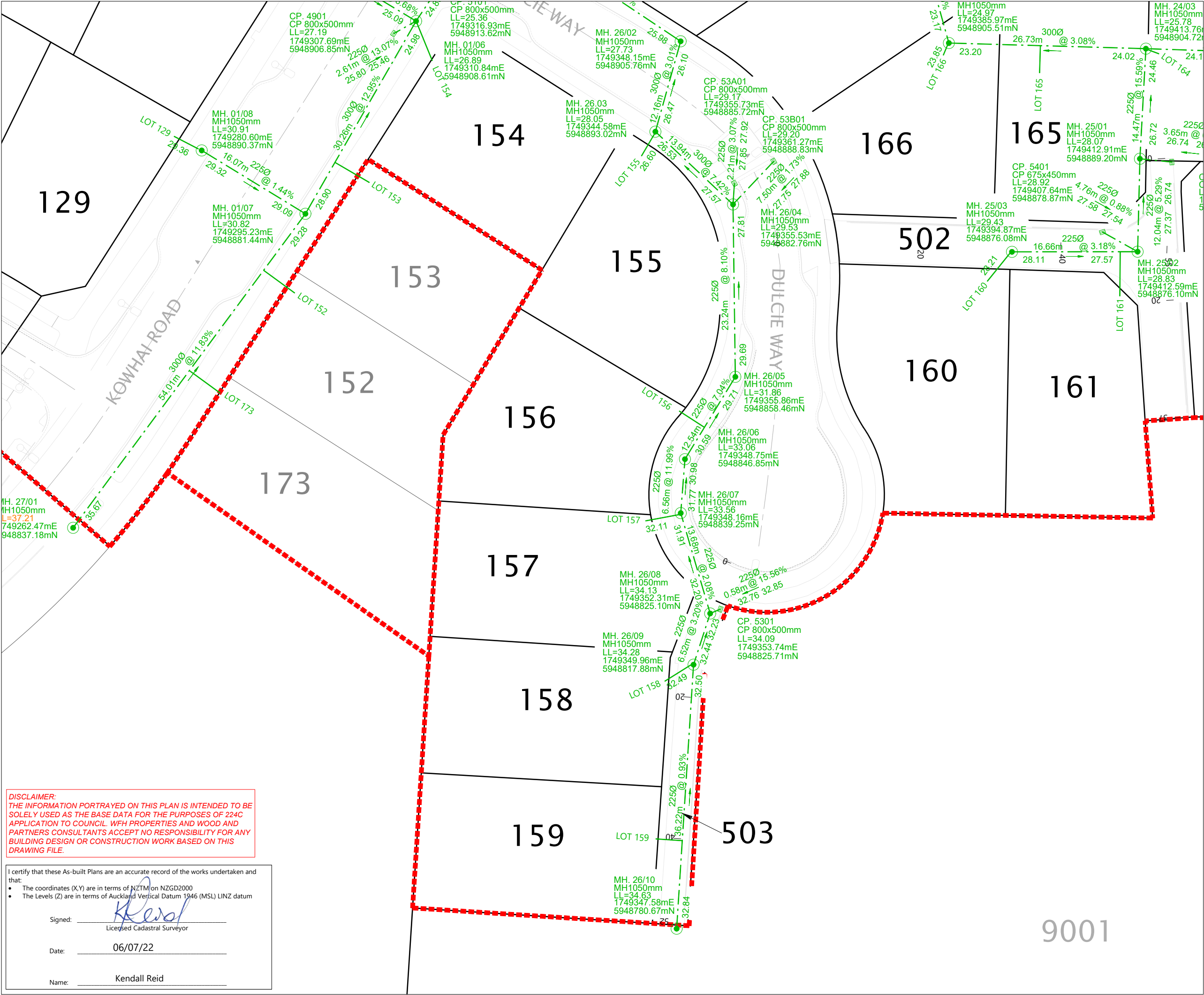


WFH 

ARRAN HILL
PRECINCT 6 STAGE 1

STORMWATER ASBUILT PLAN
SHEET 6 OF 7

STATUS	ISSUED FOR 224C	REV 1
SCALE	1 : 500 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-3005-AB	



LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

NOTE: LNS= LID NOT SET AT FINAL LEVEL
LL= LID LEVEL

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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	06/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

**ARRAN HILL
PRECINCT 6 STAGE 1**

**STORMWATER ASBUILT PLAN
SHEET 7 OF 7**

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-3006-AB	

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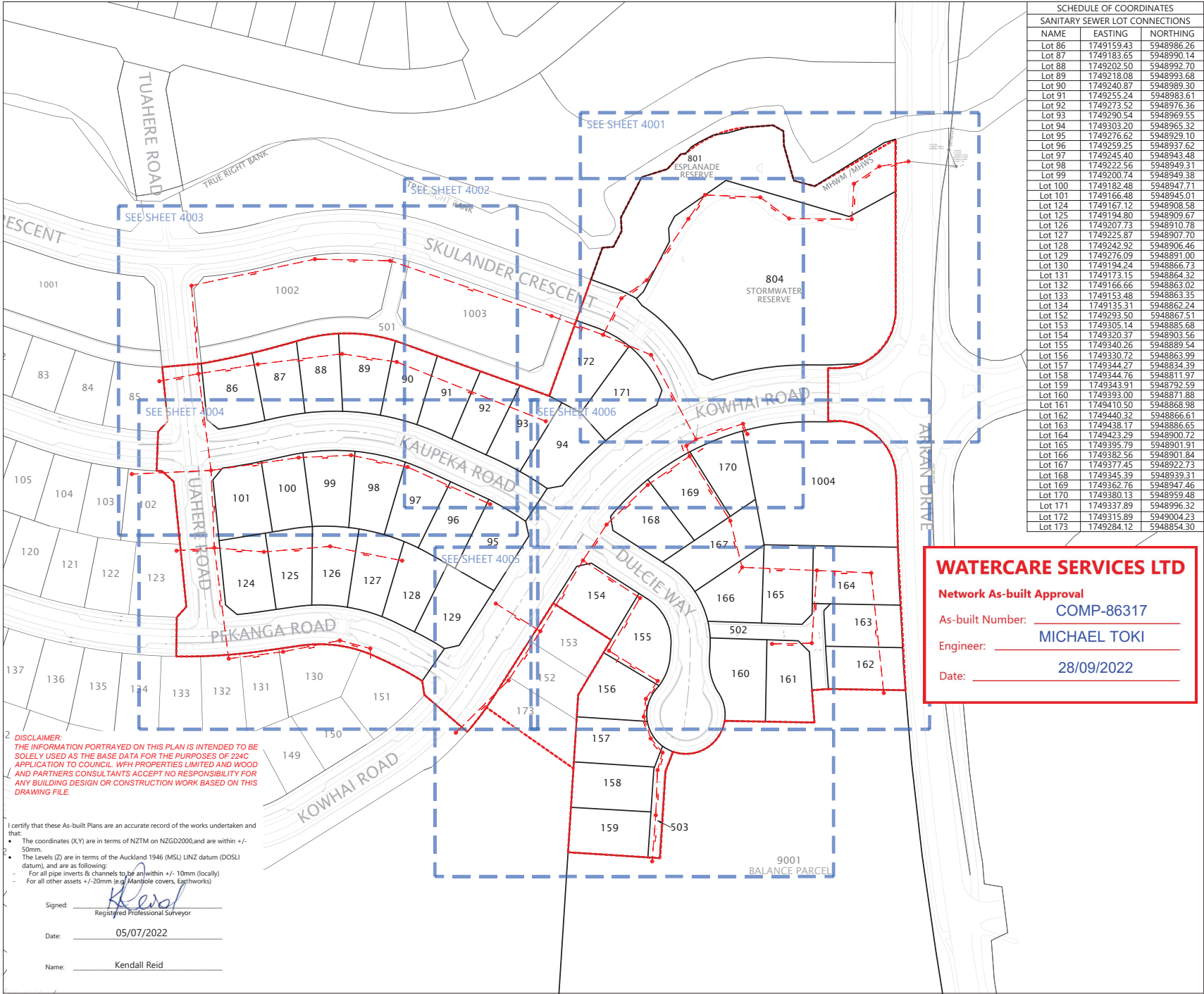
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Licensed Cadastral Surveyor

Date: 06/07/22

Name: Kendall Reid



SCHEDULE OF COORDINATES		
SANITARY SEWER LOT CONNECTIONS		
NAME	EASTING	NORTHING
Lot 86	1749159.43	5948986.26
Lot 87	1749183.65	5948990.14
Lot 88	1749202.50	5948992.70
Lot 89	1749218.08	5948993.68
Lot 90	1749240.87	5948999.30
Lot 91	1749255.24	5948983.61
Lot 92	1749273.52	5948976.36
Lot 93	1749290.54	5948969.55
Lot 94	1749303.20	5948965.32
Lot 95	1749276.62	5948929.10
Lot 96	1749259.25	5948937.62
Lot 97	1749245.40	5948943.48
Lot 98	1749222.56	5948949.31
Lot 99	1749200.74	5948949.38
Lot 100	1749182.48	5948947.71
Lot 101	1749167.12	5948945.01
Lot 102	1749166.48	5948908.58
Lot 103	1749194.80	5948909.67
Lot 104	1749207.73	5948910.78
Lot 105	1749225.87	5948907.70
Lot 106	1749242.92	5948906.46
Lot 107	1749276.09	5948891.00
Lot 108	1749194.24	5948866.73
Lot 109	1749173.15	5948864.32
Lot 110	1749166.66	5948863.02
Lot 111	1749153.48	5948863.35
Lot 112	1749135.31	5948862.24
Lot 113	1749293.50	5948867.51
Lot 114	1749305.14	5948885.68
Lot 115	1749320.37	5948903.56
Lot 116	1749340.26	5948889.54
Lot 117	1749330.72	5948863.99
Lot 118	1749344.27	5948834.39
Lot 119	1749344.76	5948811.97
Lot 120	1749343.91	5948792.59
Lot 121	1749393.00	5948871.88
Lot 122	1749410.50	5948868.98
Lot 123	1749440.32	5948866.61
Lot 124	1749438.17	5948866.65
Lot 125	1749423.29	5948900.72
Lot 126	1749395.79	5948901.91
Lot 127	1749382.56	5948901.84
Lot 128	1749377.45	5948922.73
Lot 129	1749345.39	5948939.31
Lot 130	1749362.76	5948947.46
Lot 131	1749380.13	5948959.48
Lot 132	1749337.89	5948996.32
Lot 133	1749315.89	5949004.23
Lot 134	1749284.12	5948854.30

LEGEND

NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER MANHOLE

EXISTING SANITARY SEWER

LOT BOUNDARIES

STAGE BOUNDARY

DROP-PROTECTION STRUCTURE (DPS)

LINZ LID NOT SET AT FINAL LEVEL & TO BE SET IN FUTURE STAGE

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.

2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.

3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.

4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.

5. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC CLASS SN16.

6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

7. ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-86317**

Engineer: **MICHAEL TOKI**

Date: **28/09/2022**

REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	

WFH
PROPERTIES

**ARRAN HILL
PRECINCT 6 - STAGE 1**

**WASTEWATER ASBUILT PLAN
LAYOUT SHEET
SHEET 1 OF 7**

STATUS	ISSUED FOR 224C	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-4000-AB	

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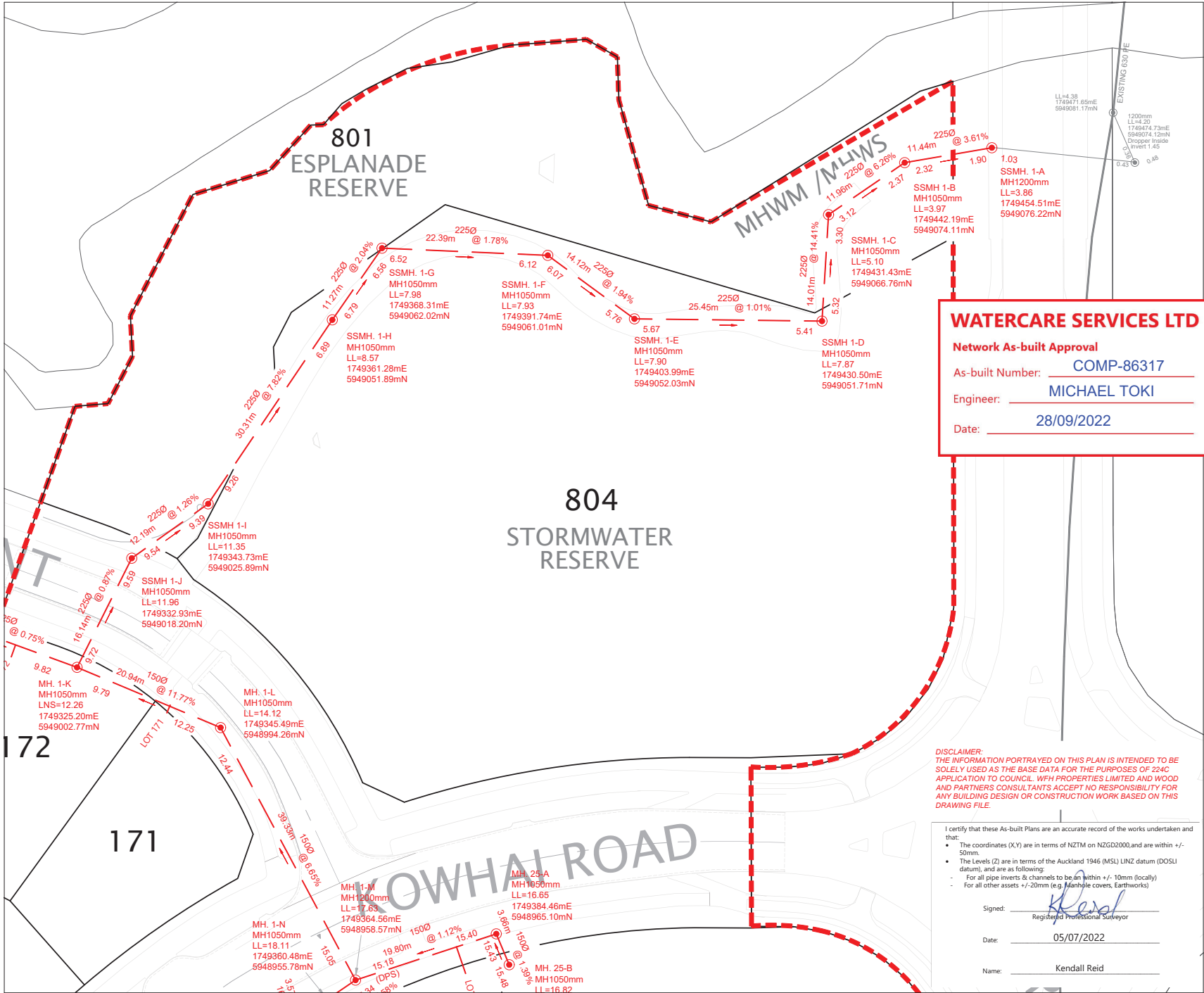
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- The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are as follows:
 - For all pipe inverts & channels to be within +/- 10mm (locally)
 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed:
Registered Professional Surveyor

Date: **05/07/2022**

Name: **Kendall Reid**



WATERCARE SERVICES LTD
Network As-built Approval
 As-built Number: COMP-86317
 Engineer: MICHAEL TOKI
 Date: 28/09/2022

LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER
- LOT BOUNDARIES
- STAGE BOUNDARY
- DROP-PROTECTION STRUCTURE (DPS)

LNS+ LID NOT SET AT FINAL LEVEL & TO BE SET IN FUTURE STAGE

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING 8 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	09 308 9229
APPROVED	KR	WOODS.CO.NZ

WFH
PROPERTIES

**ARRAN HILL
PRECINCT 6 - STAGE 1**

**WASTEWATER ASBUILT PLAN
SHEET 2 OF 7**

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-4001-AB	

DISCLAIMER:
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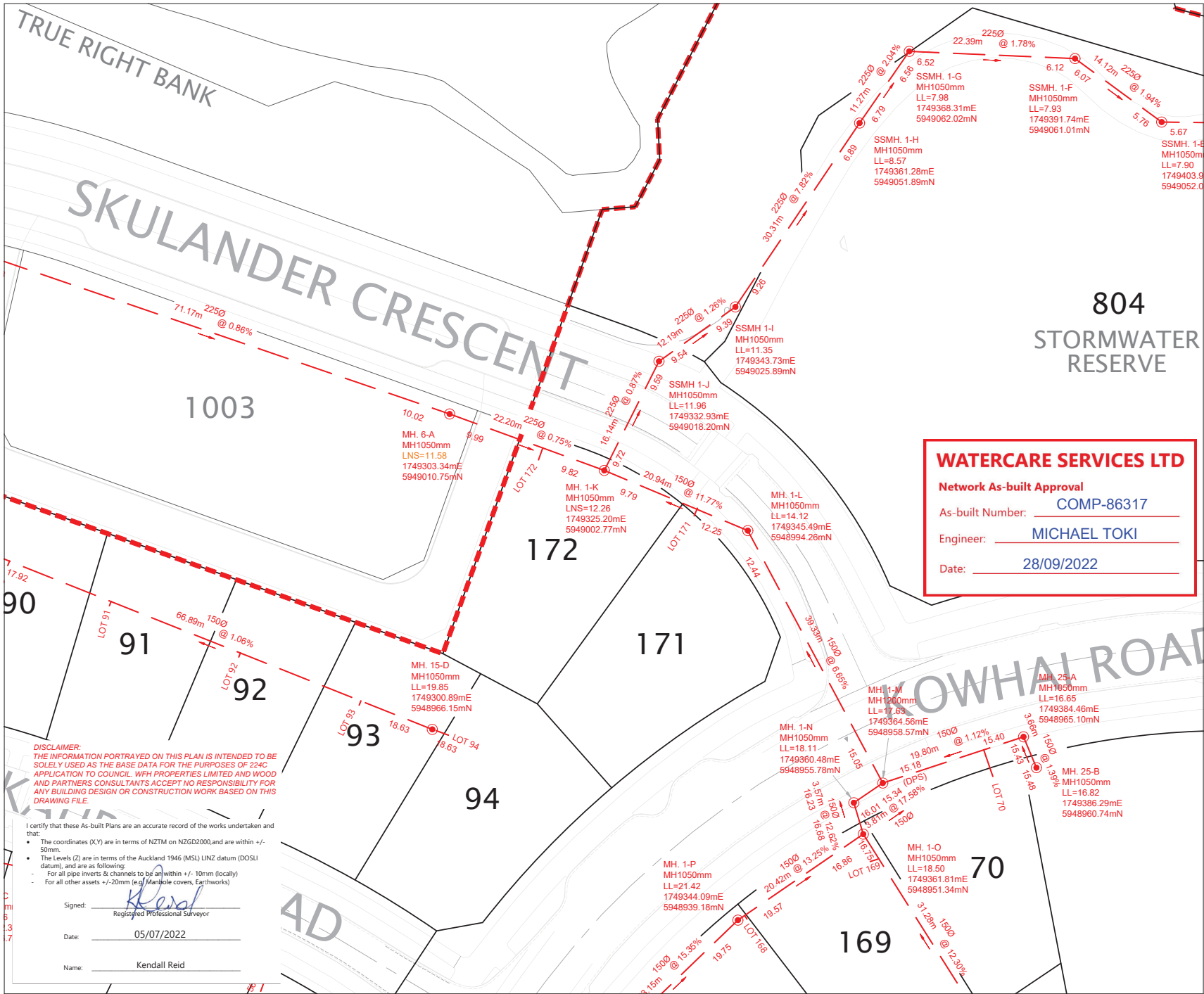
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 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: Kendall Reid
 Registered Professional Surveyor

Date: 05/07/2022

Name: Kendall Reid



LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER
- LOT BOUNDARIES
- STAGE BOUNDARY
- DROP-PROTECTION STRUCTURE (DPS)

LNS+ LID NOT SET AT FINAL LEVEL & TO BE SET IN FUTURE STAGE

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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING 8 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	09 308 9229
APPROVED	KR	WOODS.CO.NZ



**ARRAN HILL
PRECINCT 6 - STAGE 1**

**WASTEWATER ASBUILT PLAN
SHEET 3 OF 7**

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-4002-AB	

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-86317**

Engineer: **MICHAEL TOKI**

Date: **28/09/2022**

DISCLAIMER:
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APPLICATION TO COUNCIL. WPH PROPERTIES LIMITED AND WOOD
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 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: *Kendall Reid*
Registered Professional Surveyor

Date: **05/07/2022**

Name: **Kendall Reid**



LEGEND

- NEW SANITARY SEWER MANHOLE
 - NEW SANITARY SEWER
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING SANITARY SEWER
 - LOT BOUNDARIES
 - STAGE BOUNDARY
 - DROP-PROTECTION STRUCTURE (DPS)
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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING 8 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	JM	
APPROVED	KR	09 308 9229
		WOODS.CO.NZ



ARRAN HILL PRECINCT 6 - STAGE 1

WASTEWATER ASBUILT PLAN SHEET 4 OF 7

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-4003-AB	

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WATERCARE SERVICES LTD
Network As-built Approval
As-built Number: **COMP-86317**
Engineer: **MICHAEL TOKI**
Date: **28/09/2022**

LEGEND

NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER MANHOLE

EXISTING SANITARY SEWER

LOT BOUNDARIES

STAGE BOUNDARY

DROP-PROTECTION STRUCTURE (DPS)

LN± LID NOT SET AT FINAL LEVEL & TO BE SET IN FUTURE STAGE

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 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR 224C	MD	05/07/22

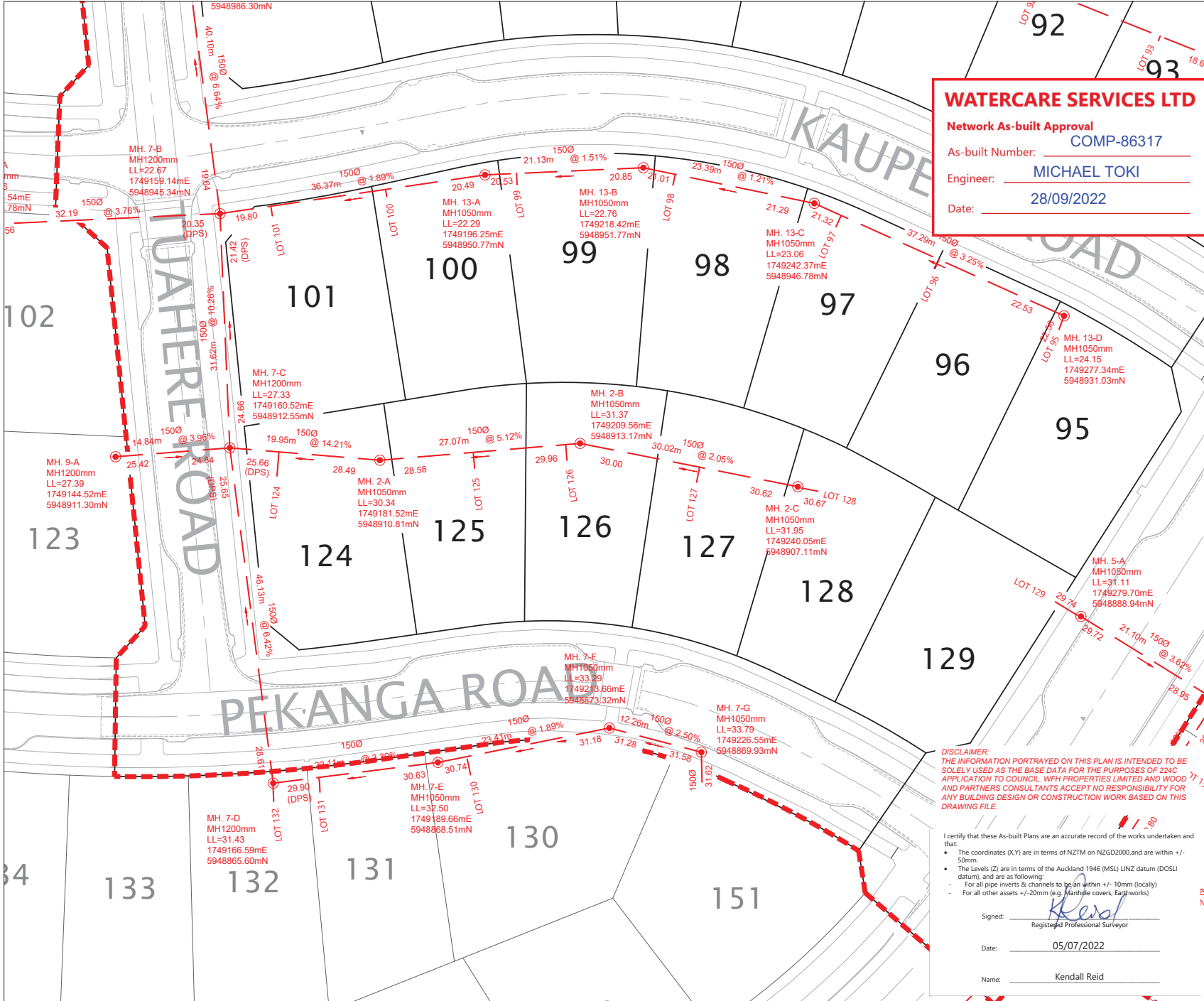
SURVEYED	WOODS	WOODS Ltd
DESIGNED	WOODS	LEVEL 1 BUILDING B
DRAWN	MD	8 NUGENT STREET, GRAFTON
CHECKED	JM	AUCKLAND 1023
APPROVED	KR	09 308 9229
		WOODS.CO.NZ

WFH
PROPERTIES

**ARRAN HILL
PRECINCT 6 - STAGE 1**

**WASTEWATER ASBUILT PLAN
SHEET 5 OF 7**

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-4004-AB	



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

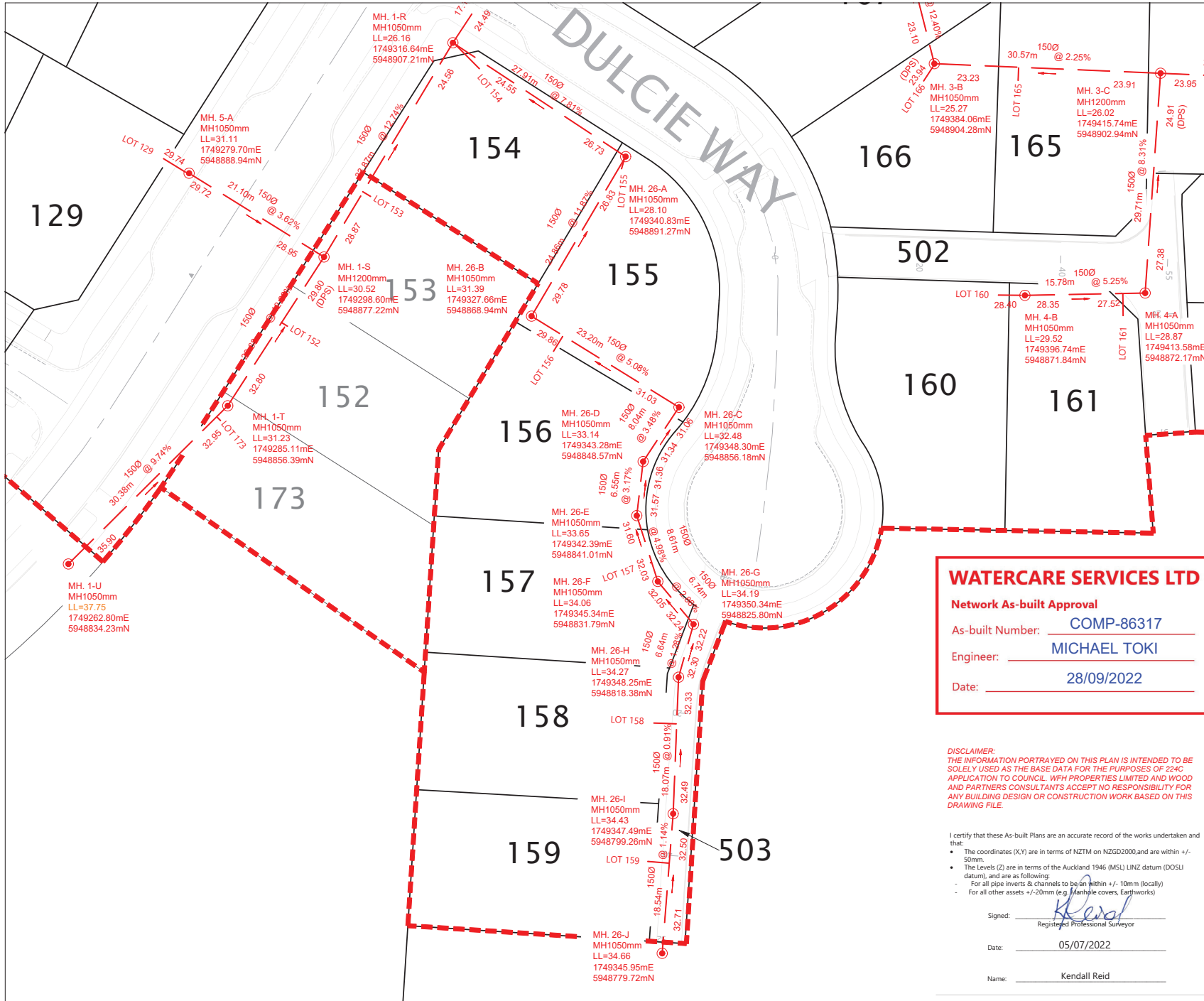
- The coordinates (X,Y) are in terms of NZTM on NZGD2000, and are within +/- 50mm.
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 - For all pipe inverts & channels to be within +/- 10mm (locally)
 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed:
Registered Professional Surveyor

Date: **05/07/2022**

Name: **Kendall Reid**

C:\J25\NEW\DATA\WPH_APP_0137611 - PRECINCT 6 STAGE 1 - 37611-01-4004-AB WASTEWATER.DWG 2022-04-05 11:37
PRINT AS PDF (A3) (M10)



WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-86317**

Engineer: **MICHAEL TOKI**

Date: **28/09/2022**

DISCLAIMER:
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 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: *Kendall Reid*
Registered Professional Surveyor

Date: **05/07/2022**

Name: **Kendall Reid**

LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER
- LOT BOUNDARIES
- STAGE BOUNDARY
- DROP-PROTECTION STRUCTURE (DPS)

LN+S LID NOT SET AT FINAL LEVEL & TO BE SET IN FUTURE STAGE

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
 - ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC CLASS SN16.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR 224C	MD	05/07/22

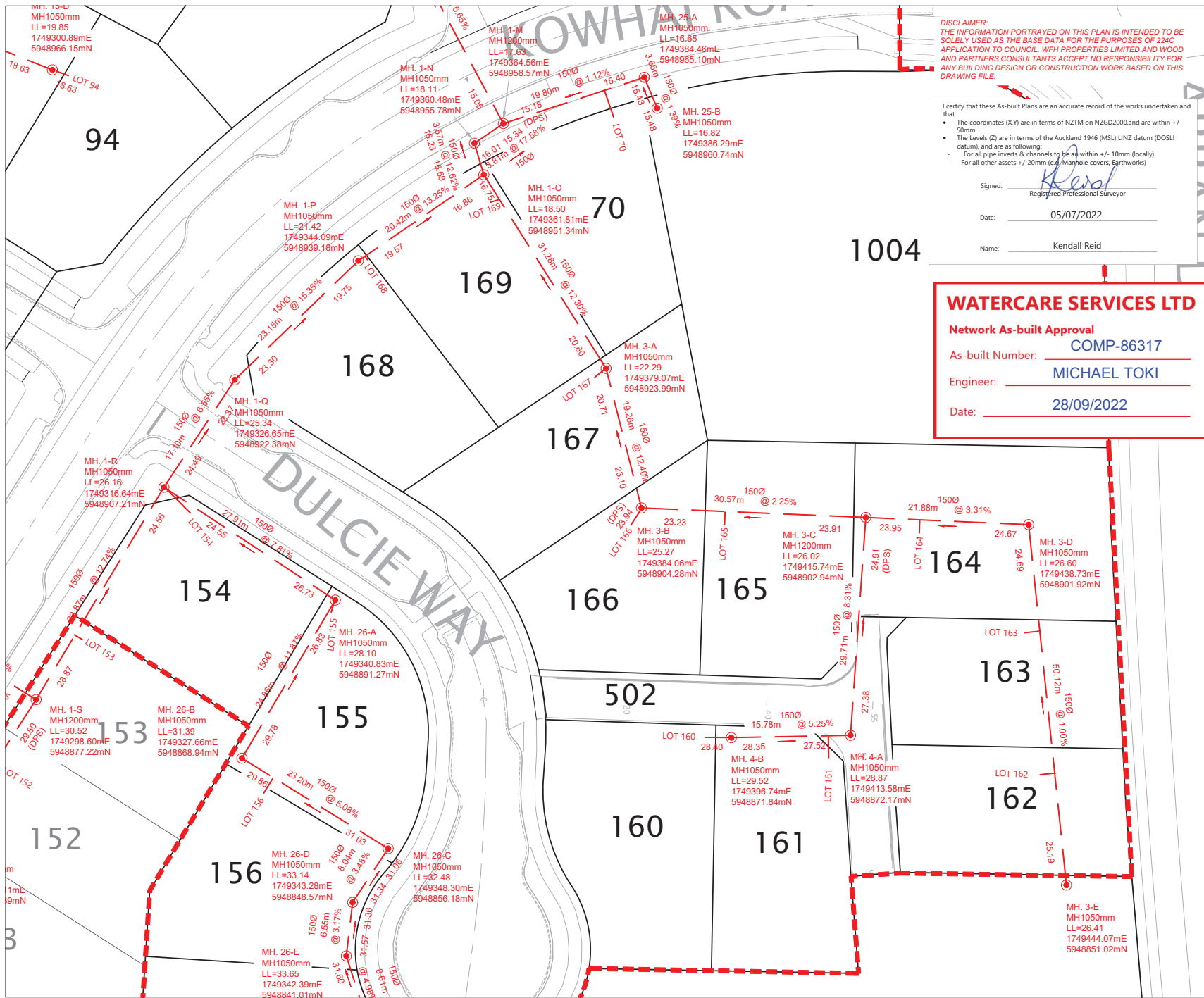
SURVEYED	WOODS	WOODS Ltd
DESIGNED	WOODS	LEVEL 1 BUILDING 8
DRAWN	MD	8 NUGENT STREET, GRAFTON
CHECKED	JM	AUCKLAND 1023
APPROVED	KR	09 308 9229
		WOODS.CO.NZ

WFH PROPERTIES

**ARRAN HILL
PRECINCT 6 - STAGE 1**

**WASTEWATER ASBUILT PLAN
SHEET 6 OF 7**

STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-4005-AB	



DISCLAIMER:
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SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224C
APPLICATION TO COUNCIL. WFH PROPERTIES LIMITED AND WOOD
AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR
ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE.

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 the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are as following:
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- For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: *Kendall Reid*
Registered Professional Surveyor

Date: 05/07/2022

Name: Kendall Reid

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-86317**

Engineer: **MICHAEL TOKI**

Date: **28/09/2022**

LEGEND

NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER MANHOLE

EXISTING SANITARY SEWER

LOT BOUNDARIES

STAGE BOUNDARY

DROP-PROTECTION STRUCTURE (DPS)

LNS+ LID NOT SET AT FINAL LEVEL & TO BE SET IN FUTURE STAGE

- NOTES**
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REVISION DETAILS		BY	DATE
1	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd
DESIGNED	WOODS	LEVEL 1 BUILDING 8
DRAWN	MD	8 NUGENT STREET, GRAFTON
CHECKED	JM	AUCKLAND 1023
APPROVED	KR	09 308 9229
		WOODS.CO.NZ

WFH
PROPERTIES

**ARRAN HILL
PRECINCT 6 - STAGE 1**

**WASTEWATER ASBUILT PLAN
SHEET 7 OF 7**

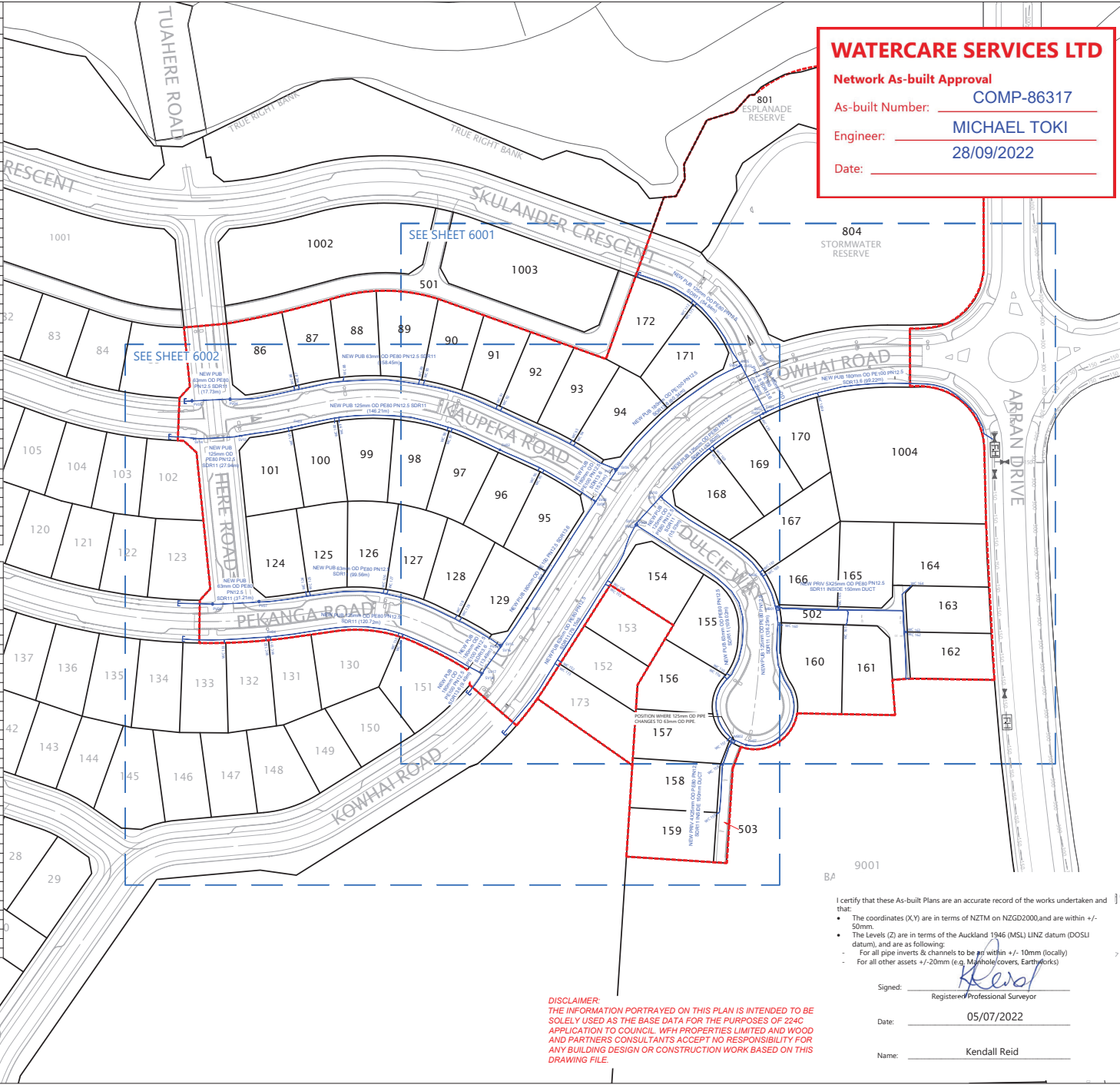
STATUS	ISSUED FOR 224C	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-01-4006-AB	

C:\123\NEWTON\DATA\WATER\APP-0713\7611 - PRECINCT 6 STAGE 1 - ARRAN HILL SURV\AB 37611-01-4006-AB WASTEWATER.DWG, 2022-10-05 11:37.
PRINT AS PDF PLATPC3.MXD

SCHEDULE OF COORDINATES		
WATER RETICULATION LOT CONNECTIONS		
NAME	EASTING	NORTHING
WC 86	1749181.15	5948966.46
WC 87	1749182.90	5948966.97
WC 88	1749200.67	5948970.04
WC 89	1749230.09	5948969.13
WC 90	1749232.07	5948968.80
WC 91	1749260.29	5948969.16
WC 92	1749262.28	5948958.34
WC 93	1749289.25	5948945.40
WC 94	1749290.64	5948944.47
WC 95	1749277.54	5948939.53
WC 96	1749275.94	5948933.58
WC 97	1749242.12	5948948.40
WC 98	1749240.44	5948948.89
WC 99	1749198.76	5948952.24
WC 100	1749196.97	5948953.00
WC 101	1749179.23	5948948.55
WC 124	1749185.71	5948886.61
WC 125	1749187.13	5948886.67
WC 126	1749216.18	5948887.35
WC 127	1749217.77	5948887.14
WC 128	1749244.56	5948877.39
WC 129	1749246.37	5948876.55
WC 154	1749304.64	5948889.85
WC 155	1749349.12	5948854.73
WC 156	1749348.06	5948853.76
WC 157	1749349.45	5948828.49
WC 158	1749346.80	5948818.94
WC 159	1749342.42	5948800.12
WC 160	1749371.04	5948873.52
WC 161	1749395.53	5948873.35
WC 162	1749419.26	5948870.52
WC 163	1749419.18	5948871.04
WC 164	1749421.03	5948868.89
WC 165	1749392.85	5948880.71
WC 166	1749364.82	5948893.38
WC 167	1749363.52	5948895.11
WC 168	1749343.87	5948900.86
WC 169	1749344.76	5948941.54
WC 170	1749362.80	5948953.42
WC 171	1749336.40	5948997.21
WC 172	1749335.51	5948998.22
WC 1004	1749395.99	5948962.63
WATER RETICULATION LOT CONNECTIONS (FOR FUTURE LOTS)		
WC 130	1749221.69	5948869.27
WC 131	1749172.18	5948867.53
WC 132	1749170.46	5948873.53
WC 133	1749154.19	5948866.55
WC 151	1749223.21	5948868.78
WC 152	1749285.16	5948858.97
WC 153	1749303.86	5948869.63
WC 173	1749284.21	5948857.51

SCHEDULE OF COORDINATES		
WATER RETICULATION VALVES, HYDRANTS AND MANIFOLD BOXES		
NAME	EASTING	NORTHING
SV01	1749364.86	5948956.40
SV02	1749364.06	5948955.97
SV03	1749355.04	5948974.18
SV04	1749354.59	5948974.28
SV05	1749354.58	5948974.82
SV06	1749306.67	5948933.98
SV07	1749306.24	5948933.44
SV08	1749298.09	5948921.76
SV09	1749298.22	5948921.34
SV10	1749323.91	5948923.62
SV11	1749323.95	5948923.21
SV12	1749314.18	5948912.81
SV13	1749160.48	5948946.98
SV14	1749142.62	5948945.88
SV15	1749261.90	5948865.68
SV16	1749261.56	5948865.13
SV17	1749254.13	5948854.91
SV18	1749254.24	5948854.52
PV01	1749306.19	5948933.90
PV02	1749314.01	5948912.36
PV03	1749314.37	5948912.49
PV04	1749156.35	5948961.26
PV05	1749141.57	5948960.63
PV06	1749149.60	5948881.67
PV07	1749167.61	5948882.67
PV08	1749261.37	5948865.57
FH01	1749363.43	5948955.66
FH02	1749242.12	5948948.40
FH03	1749180.21	5948950.35
FH04	1749171.30	5948868.91
FH05	1749271.75	5948879.94
FH06	1749362.76	5948893.31
FH07	1749356.92	5948826.96
MB1	1749369.06	5948880.04
MB2	1749351.68	5948828.34

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34	34



WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-86317**

Engineer: **MICHAEL TOKI**

Date: **28/09/2022**

- NOTES**
1. ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 2. PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 3. WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMES AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
 4. ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
 5. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 7. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

LEGEND

EXISTING WATERMAIN

HIGH PRESSURE WATERMAIN

SLUICE VALVE

PEET VALVE

FIRE HYDRANT

BLANK CAP

WATER METER BANK

STAGE BOUNDARY

LOT BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	04/04/22
2	ISSUED FOR 224C	MD	05/07/22

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	09 308 9229 WOODS.CO.NZ

WFH
PROPERTIES

ARRAN HILL
PRECINCT 6 STAGE 1

WATERMAIN ASBUILT PLAN
LAYOUT SHEET
SHEET 1 OF 3

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-6000-AB	

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Signed:
Registered Professional Surveyor

Date: **05/07/2022**

Name: **Kendall Reid**

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STORMWATER RESERVE

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Name: Kendall Reid

Date: 28/09/2022

1. ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
3. WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDILL BACKFILLED BENEATH ROAD CROSSINGS.
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EXISTING WATERMAIN	
HIGH PRESSURE WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	
WATER METER BANK	
STAGE BOUNDARY	
LOT BOUNDARY	

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MD	
CHECKED	RV	
APPROVED	KR	

ARRAN HILL
PRECINCT 6 STAGE 1
WATERMAIN ASBUILT PLAN
SHEET 2 OF 3

STATUS	ISSUED FOR 224C	REV 2
SCALE	1 : 750 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-6001-AB	



NOTES

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LEGEND

EXISTING WATERMAIN	
HIGH PRESSURE WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	
WATER METER BANK	
STAGE BOUNDARY	
LOT BOUNDARY	

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	04/04/22
2 ISSUED FOR 224C	MD	05/07/22

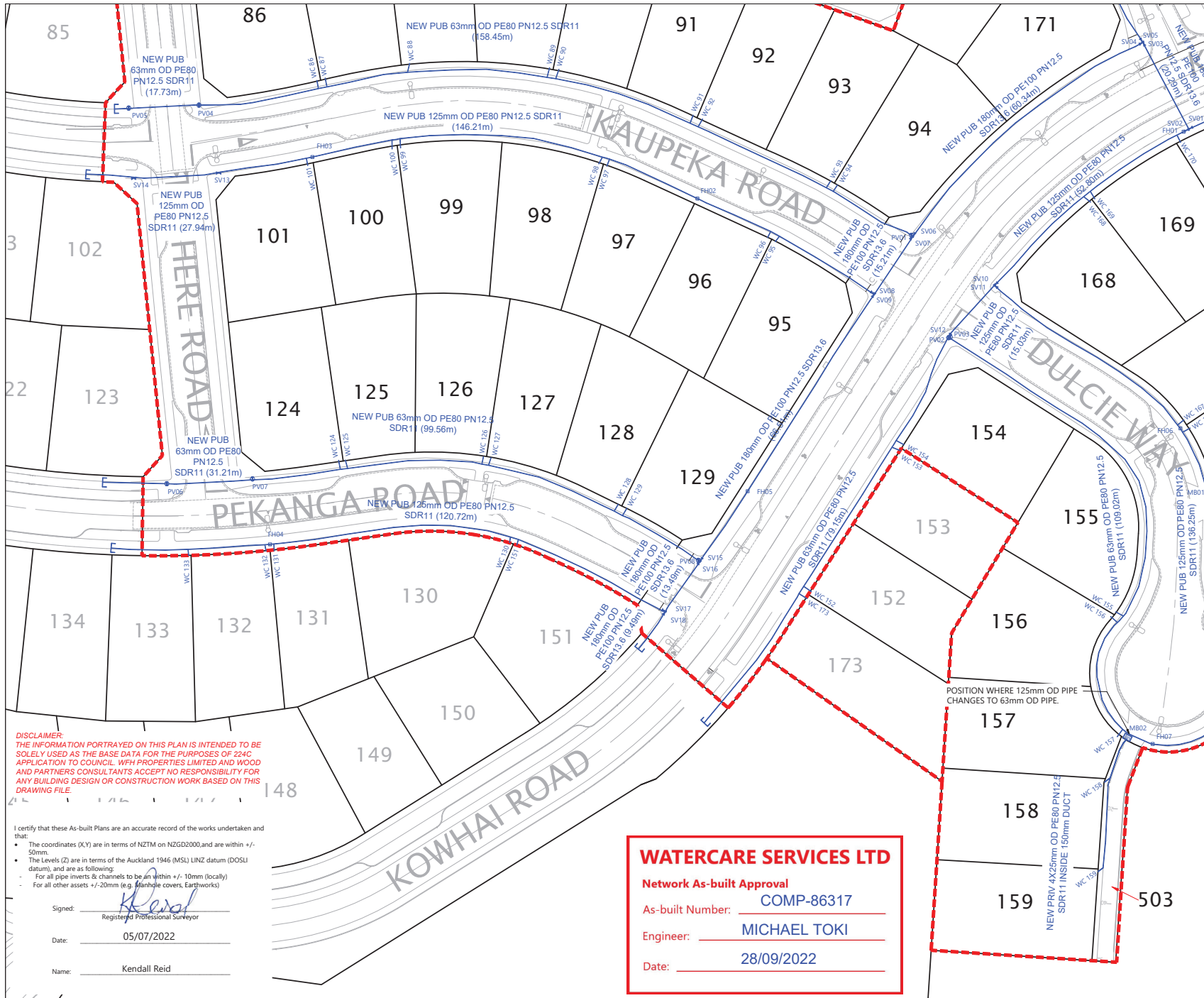
SURVEYED	WOODS	WOODS Ltd
DESIGNED	WOODS	LEVEL 1 BUILDING B
DRAWN	MD	8 NUGENT STREET, GRAFTON
CHECKED	RV	AUCKLAND 1023
APPROVED	KR	09 308 9229
		WOODS.CO.NZ



ARRAN HILL PRECINCT 6 STAGE 1

WATERMAIN ASBUILT PLAN SHEET 3 OF 3

STATUS	ISSUED FOR 224C	REV
SCALE	1 : 750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37611-P6-01-6002-AB	



DISCLAIMER:
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- For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed:
Registered Professional Surveyor

Date: 05/07/2022

Name: Kendall Reid

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-86317**

Engineer: **MICHAEL TOKI**

Date: **28/09/2022**

11 May 2022

Attention: Rory Vasey

By email: rory.vasey@woods.co.nz

Vector Limited

101 Carlton Gore Road

PO Box 99882

Newmarket

Auckland 1149

+64 9 978 7788 / vector.co.nz

Electricity & Gas Network - Completion Certificate

Millwater - Precinct 6 - Stage 1

Vector Project No. EC-21-NCIP4-255 & GC-21-GCIP4-085

Description of the Works : Electricity & Gas Reticulation

To extend our 11kV network and install a 300kVa transformer with LV cable and pits to provide 46 ICPs (44x residential ICPs single phase 60 Amps each for Lots 86-101, Lots 124-129 and Lots 151-172, plus 1x childcare centre ICP 3 phase 60 Amps and 6x retail units in Lot 1004 via 1x 3 phase 100 Amps ICP). Install cable for streetlighting connections.

To provide gas reticulation for a total of 45 ICPs: 44x residential ICPs (Lots 86-101, Lots 124-129, Lots 152-173) and 1x superlot (1004).

It is hereby certified that the works, as detailed on construction plan, have been practically completed in accordance with the Contract Documents and Vector Design and Construction Manual criteria.

1. Specifically these works encompass the extension of the 11kV network and gas network with installation of a 300kVA transformer.
2. The works, following testing, have been commissioned by Vector as Network Operator. Supply has been made available at the boundary of each lot.
3. Vector Limited is the Electrical & Gas owner of the distribution system which will provide Line Function Services to the individual Points of Supply within the subdivision.
4. Street light installation is not included as part of this certification; however we can confirm that the Vector network is live to each street light fixture. Before livening your street light luminaires, you are responsible to liaise with Auckland Transport (AT) to record any new proposed street lights into the AT/ RAMM database

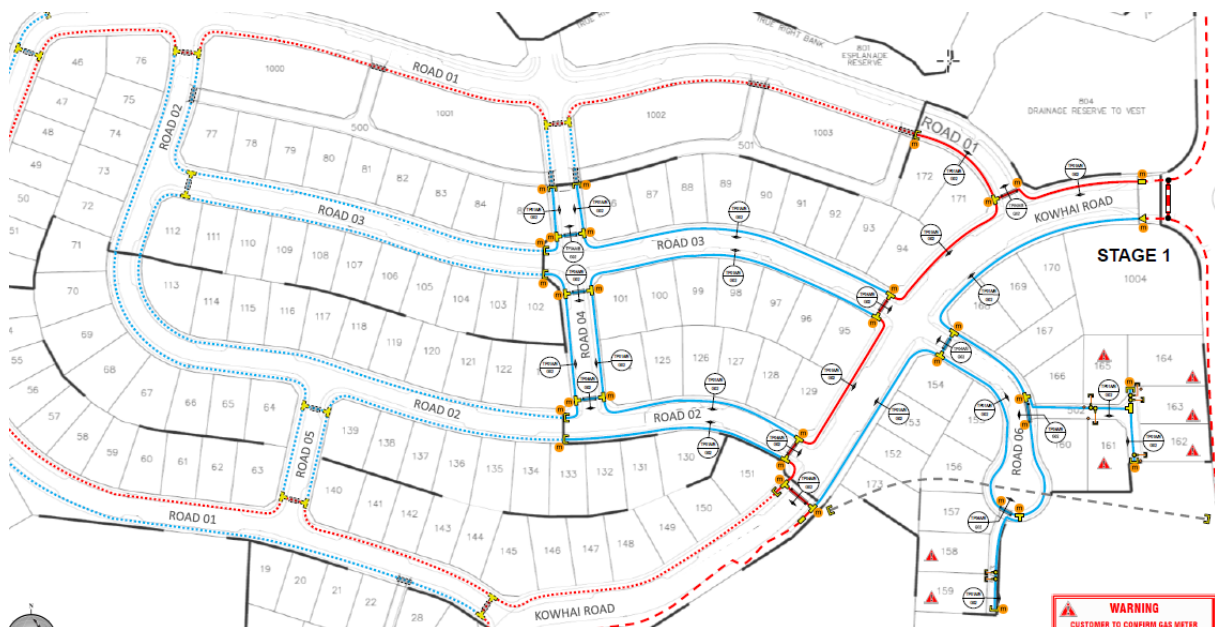
Please do not hesitate to contact me on (09) 978 8138 if you have any further questions.

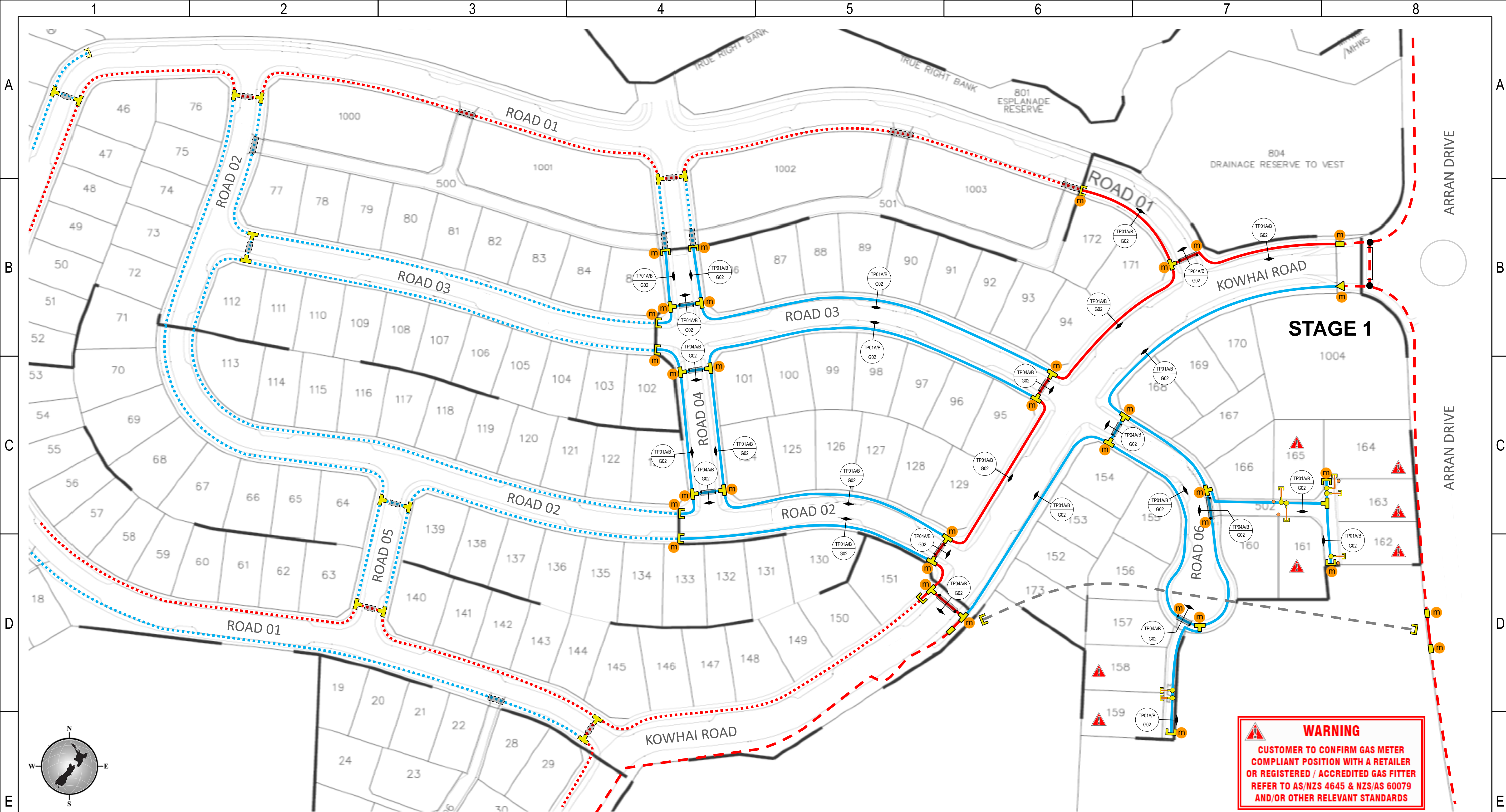
Kind Regards



Rob Duncan | Senior Customer Delivery Advisor

Site Plan - Vector Installation:





<div><div>EXISTING VECTOR GAS NETWORK</div><div><div><div><div><div></div></div><div>MP4 100mm PE</div></div><div><div><div></div></div><div>Syphon pot</div></div></div><div><div><div><div></div></div><div>MP4 50mm PE</div></div><div><div><div></div></div><div>Squeeze off point</div></div></div><div><div><div><div></div></div><div>MP4 32mm PE</div></div><div><div><div></div></div><div>Reducer (pipe size change)</div></div></div><div><div><div><div></div></div><div>MP4 10mm PE</div></div><div><div><div></div></div><div>Ducted gas pipe</div></div></div><div><div><div><div></div></div><div>STANDBY PIPE</div></div><div><div><div></div></div><div>Depth of cover (0.8)</div></div></div><div><div><div><div></div></div><div>PE Joint</div></div><div><div><div></div></div><div>Valve (OPEN)</div></div></div><div><div><div><div></div></div><div>Valve (CLOSED)</div></div><div><div><div></div></div><div>Pipe capped</div></div></div></div></div> <div><div>PROPOSED VECTOR GAS NETWORK 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gas</div></div><div>© Copyright Vector Limited 2020 All rights reserved, unauthorised reproduction prohibited</div></td><td colspan="2" rowspan="2">MILLWATER – PRECINCT 6 – STAGE 1 NATURAL GAS RETICULATION DRAWING SYSTEM DESIGN</td><td colspan="2">Reference designation: AK-MP4-S3-PE80B-SDR11</td><td colspan="2">Drawing function:</td></tr><tr><td>1.0</td><td>Initial design issued for review.</td><td>07/05/2021</td><td>C.Stobrawe</td><td>Author</td><td>C.Stobrawe</td><td>GC-21-GCIP4-0851.0.pdf</td><td colspan="2"></td><td colspan="2"></td></tr><tr><td>1.1</td><td>Addition of service laterals.</td><td>28/05/2021</td><td>C.Stobrawe</td><td></td><td></td><td></td><td colspan="2"></td><td colspan="2">Drawing stamp: FOR APPROVAL</td><td>Scale at A3: Refer to scalebar</td><td>Doc type: Location diagrams (Layout)</td></tr><tr><td>1.2</td><td>Removal of laterals for Lot 160 & 166 from JOAL.</td><td>01/06/2021</td><td>C.Stobrawe</td><td>Auth date</td><td>28/05/2021</td><td>Consultant project no: 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TYPICAL RAIN GARDEN SETUP FOR GAS MAIN

The diagram illustrates a cross-section of a rain garden setup adjacent to a road. A dashed line indicates the back of the kerb. Below it, a footpath runs parallel to the road. The rain garden area contains a layer of gravel and a central gas pipe/main protected by a 150mm grey SN16 PVC duct. The duct is shown in two sections, each labeled as 6m long. Boundary lines are indicated at the edges of the rain garden.

TYPICAL CROSS SECTION - RG01

This cross-section shows the vertical arrangement of components. From top to bottom: back of kerb, rain garden surface, footpath, boundary line, and the gas pipe/main encased in a 150mm grey SN16 PVC duct. A dimension of 250 is shown between the footpath and the base of the duct.

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

2. NO PREFORMED BENDS TO BE USED WHEN INSTALLING THE 150mm SN16 PVC GREY DUCT PASSED THE RAIN GARDENS.

TYPICAL LAYOUT FOR SERVICES AT FRONT BOUNDARY OF PROPERTIES

NOTE: Final gas service connection and gas meter install to be requested via a retailer and installed by others.

A plan view showing two lots, LOT 01 and LOT 02, separated by a boundary line. Each lot has a width of 1000 units. Along the boundary line, there are utility boxes for Water Meter, Electricity TUD, and Chorus. Gas service laterals are shown entering each lot from the boundary line.

MINIMUM CLEARANCES TO OTHER SERVICES

GAS INSTALLED PARALLEL TO OTHER SERVICES
TRENCH CROSS SECTION

The front view shows a trench cross-section with a ground level line (FGL) at the top. A yellow warning tape is placed above the gas pipe. Two 250 mm gaps are indicated between the gas pipe and the trench walls. The top view shows three vertical lines representing the gas pipe and trench walls, with 250 mm gaps between them. Labels include 'WARNING XXX MAIN BELOW' and 'WARNING GAS MAIN BELOW'.

GAS INSTALLED ACROSS OTHER SERVICES
TRENCH CROSS SECTION

The front view shows a trench cross-section with a ground level line (FGL) at the top. A yellow warning tape is placed above the gas pipe. Two 150 mm gaps are indicated between the gas pipe and the trench walls. The top view shows three vertical lines representing the gas pipe and trench walls, with 150 mm gaps between them. Labels include 'WARNING XXX MAIN BELOW' and 'WARNING GAS MAIN BELOW'.

* IF THE OTHER SERVICE REQUIRES A GREATER MINIMUM CLEARANCE THEN THAT CLEARANCE MUST BE MAINTAINED.

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				Chk by date		
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MILLWATER – PRECINCT 6 – STAGE 1
NATURAL GAS RETICULATION DRAWING
SYSTEM DESIGN

RAIN GARDENS / SERVICE LATERAL LAYOUT / MINIMUM CLEARANCES
STANDARD DRAWING

Reference designation:
AK-MP4-S3-PE80B-SDR11

Drawing function:

Drawing stamp: **FOR APPROVAL**

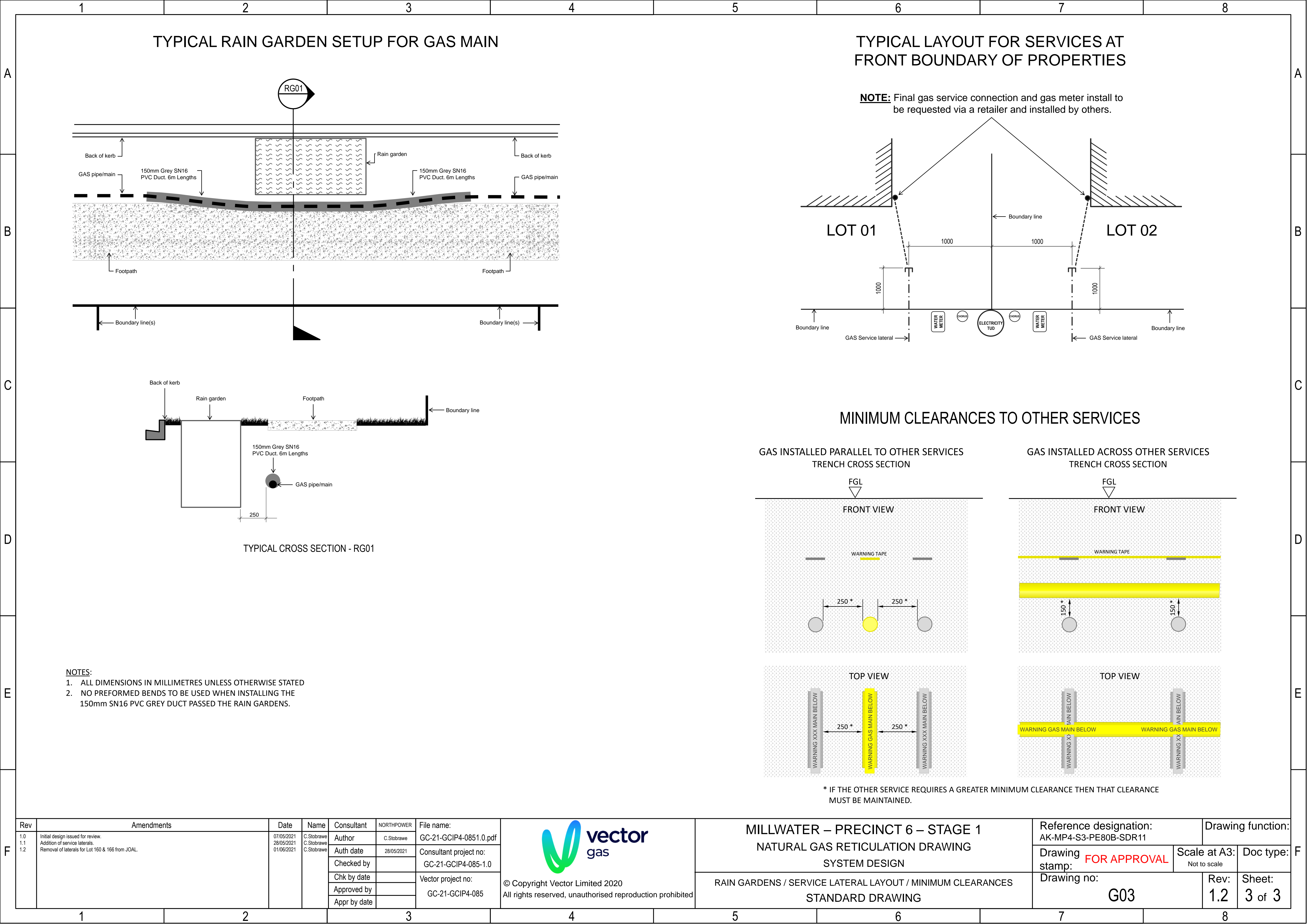
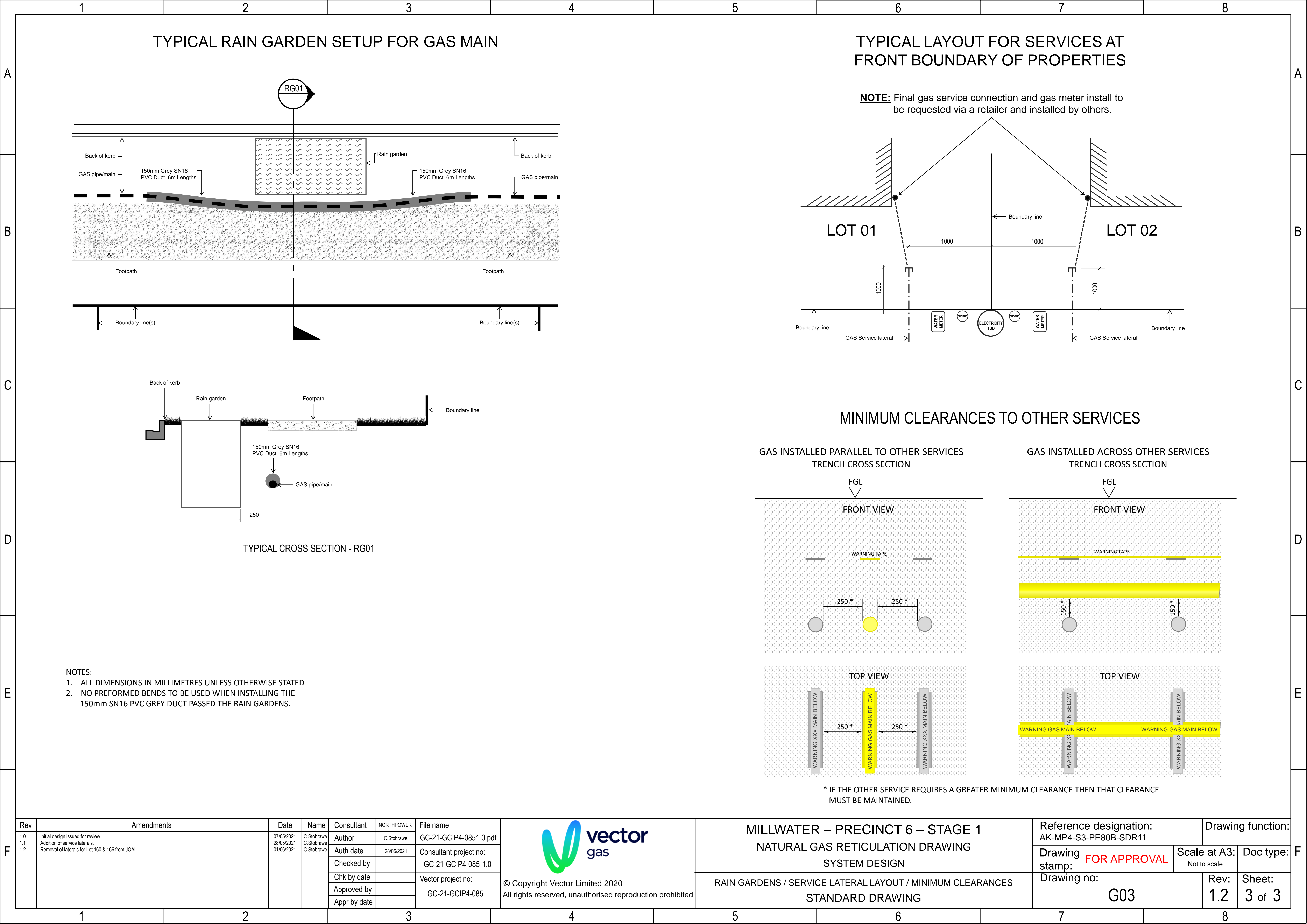
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Sheet:
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TYPICAL RAIN GARDEN SETUP FOR GAS MAIN

The diagram illustrates a cross-section of a rain garden setup adjacent to a road. A dashed line indicates the back of the kerb. Below it, a footpath runs parallel to the road. The rain garden area contains a layer of gravel and a central gas pipe/main protected by a 150mm grey SN16 PVC duct. The duct is shown in two sections, each 6m long. Boundary lines are indicated at the edges of the rain garden.

TYPICAL CROSS SECTION - RG01

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MILLWATER – PRECINCT 6 – STAGE 1
NATURAL GAS RETICULATION DRAWING
SYSTEM DESIGN

RAIN GARDENS / SERVICE LATERAL LAYOUT / MINIMUM CLEARANCES
STANDARD DRAWING

Reference designation:
AK-MP4-S3-PE80B-SDR11

Drawing stamp: **FOR APPROVAL**

Drawing no:
G03

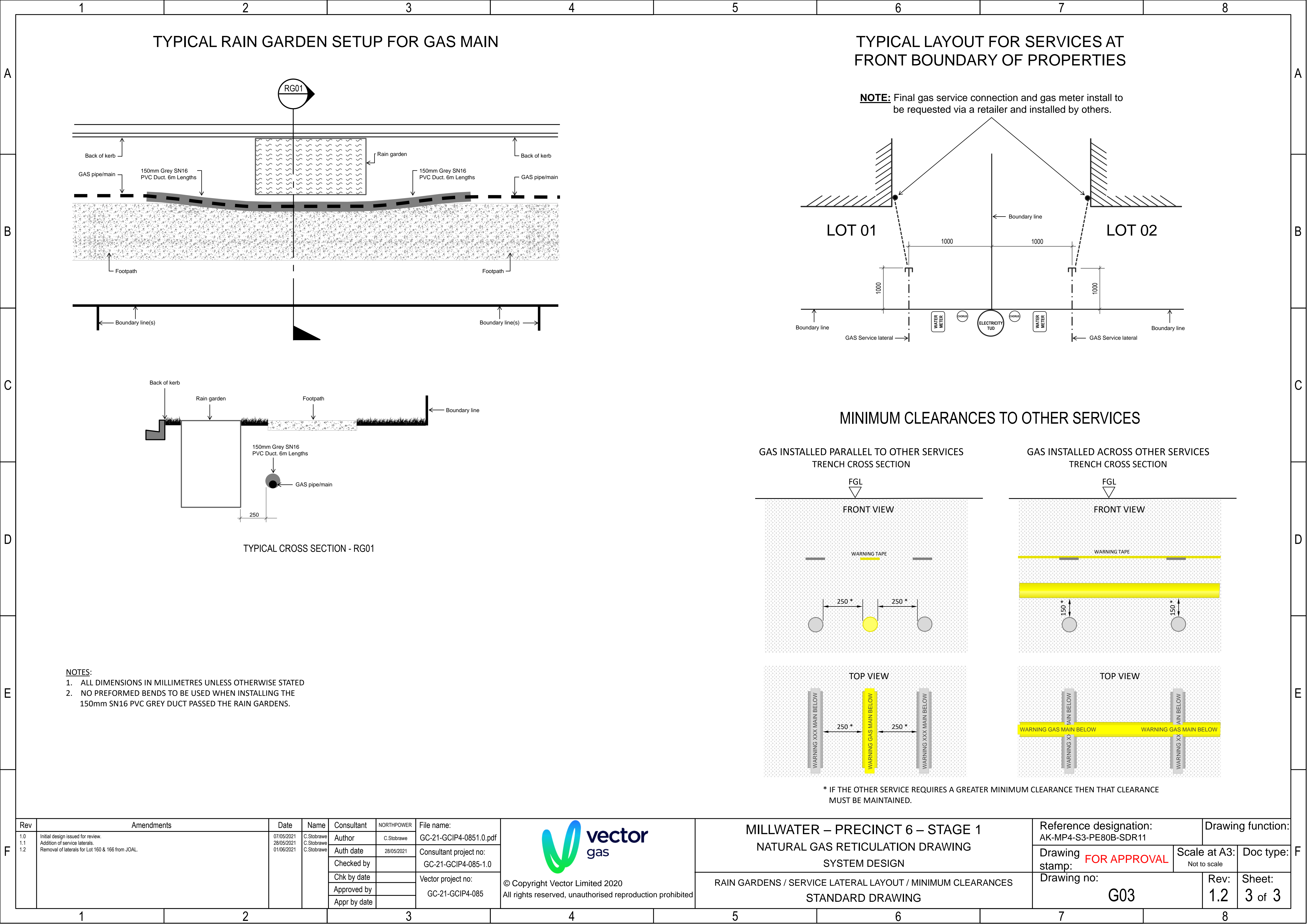
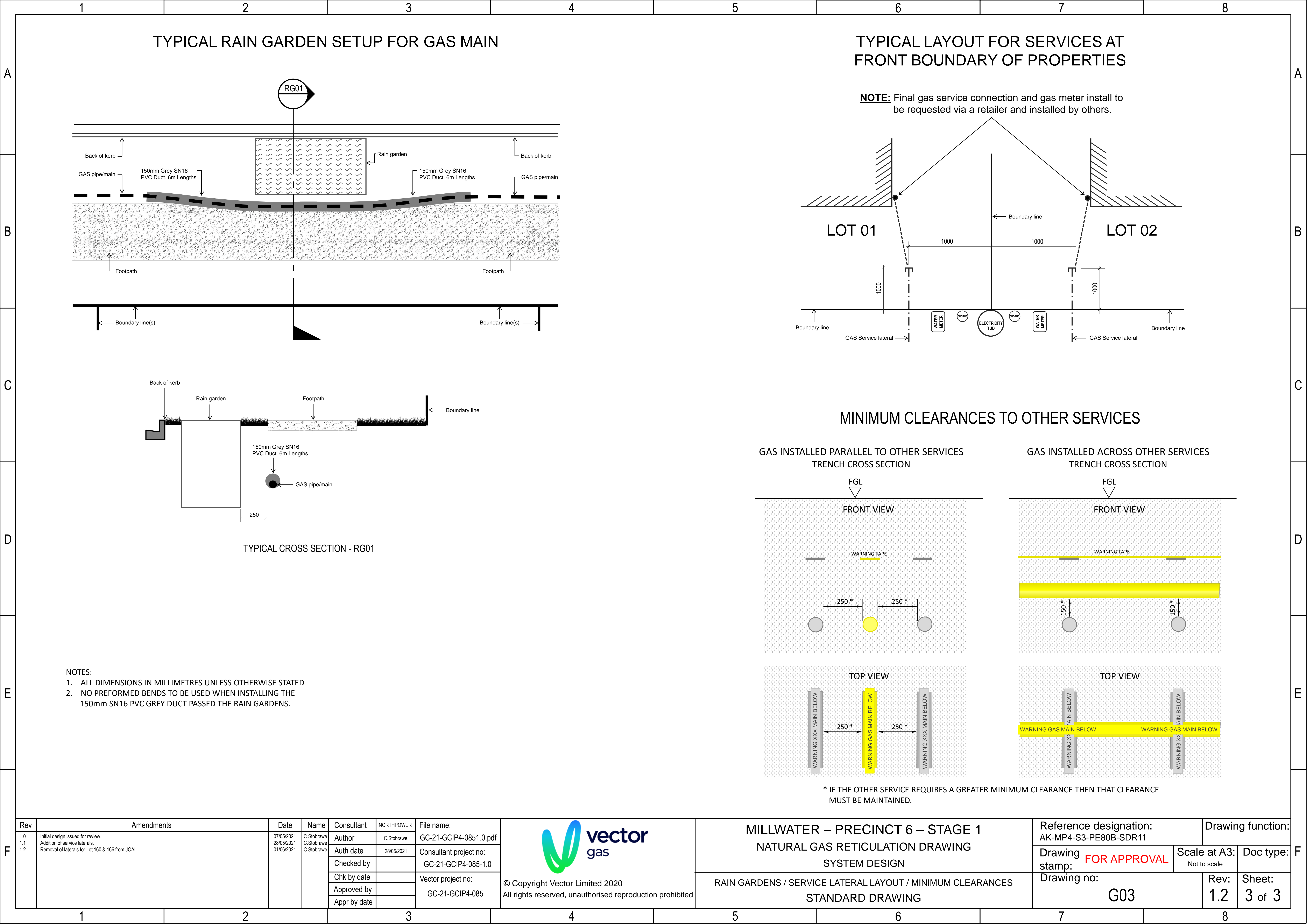
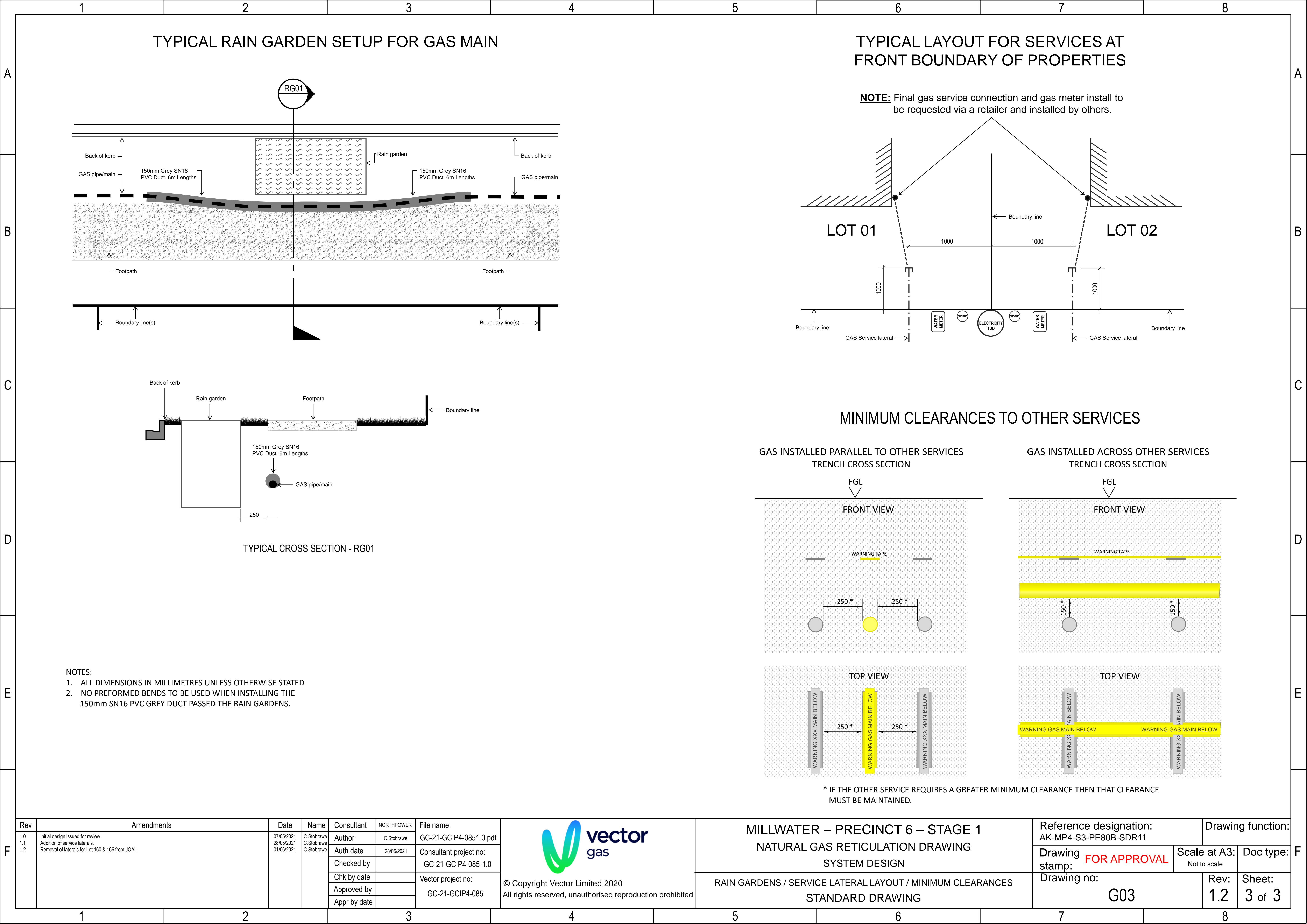
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