

CLIENT:



COUNCIL:



# MILLWATER - WAINUI ROAD UPGRADE

## PART C

ASBUILTS DRAWINGS IN SUBSTITUTION

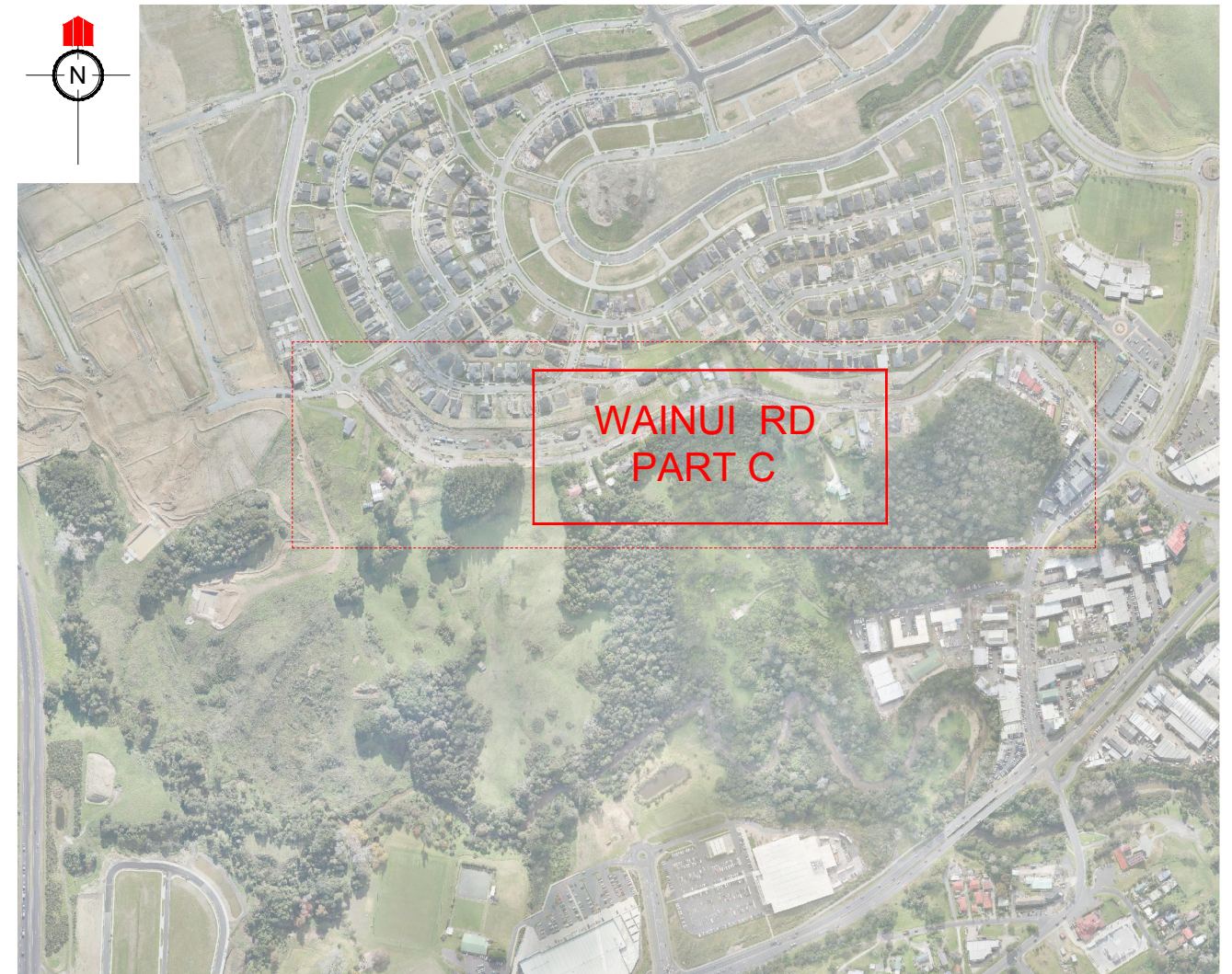
MAY 2018



# MILLWATER - WAINUI ROAD UPGRADE PART C

## CONTENT INDEX AND LOCALITY PLAN

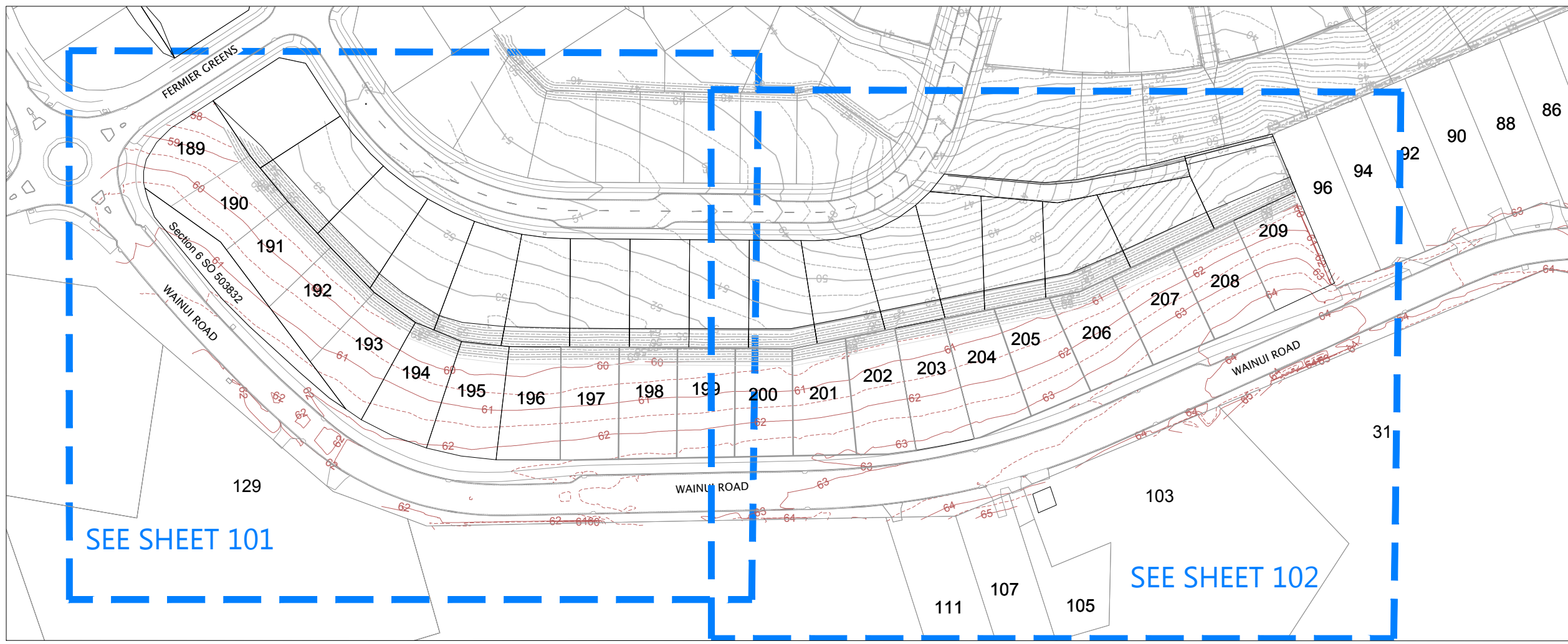
SHEET NO.		SHEET TITLE
33726-00	000	Plans Index and Location Plan
33726-00	100-104	Final Contour Asbuilt Plan
33726-00	110-112	Cut & Fill Asbuilt Original to Final Surface
33726-00	120-124	Shear Key, Undercuts & Subsoil Drains Asbuilt Plan
33726-00	130-136	Retaining Wall Asbuilt
33726-00	200-207	Roading Asbuilt Plans
33726-00	300-306	Stormwater Asbuilt Plans
33726-00	400-406	Low Pressure Sewer Asbuilt Plans
33726-00	600-606	Watermain Asbuilt Plans



**LOCATION PLAN**

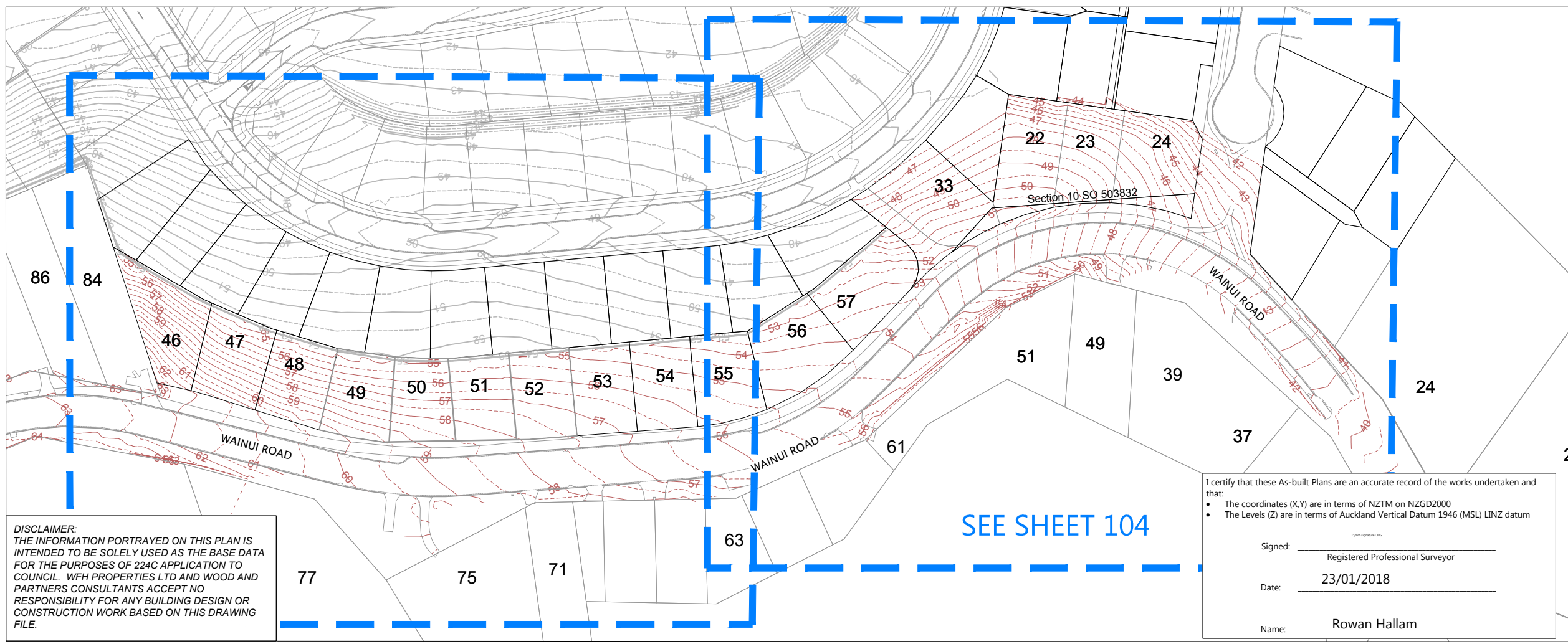
NOT TO SCALE





SEE SHEET 101

SEE SHEET 102



SEE SHEET 104

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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: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam

**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	CONTOURS MAJOR
	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

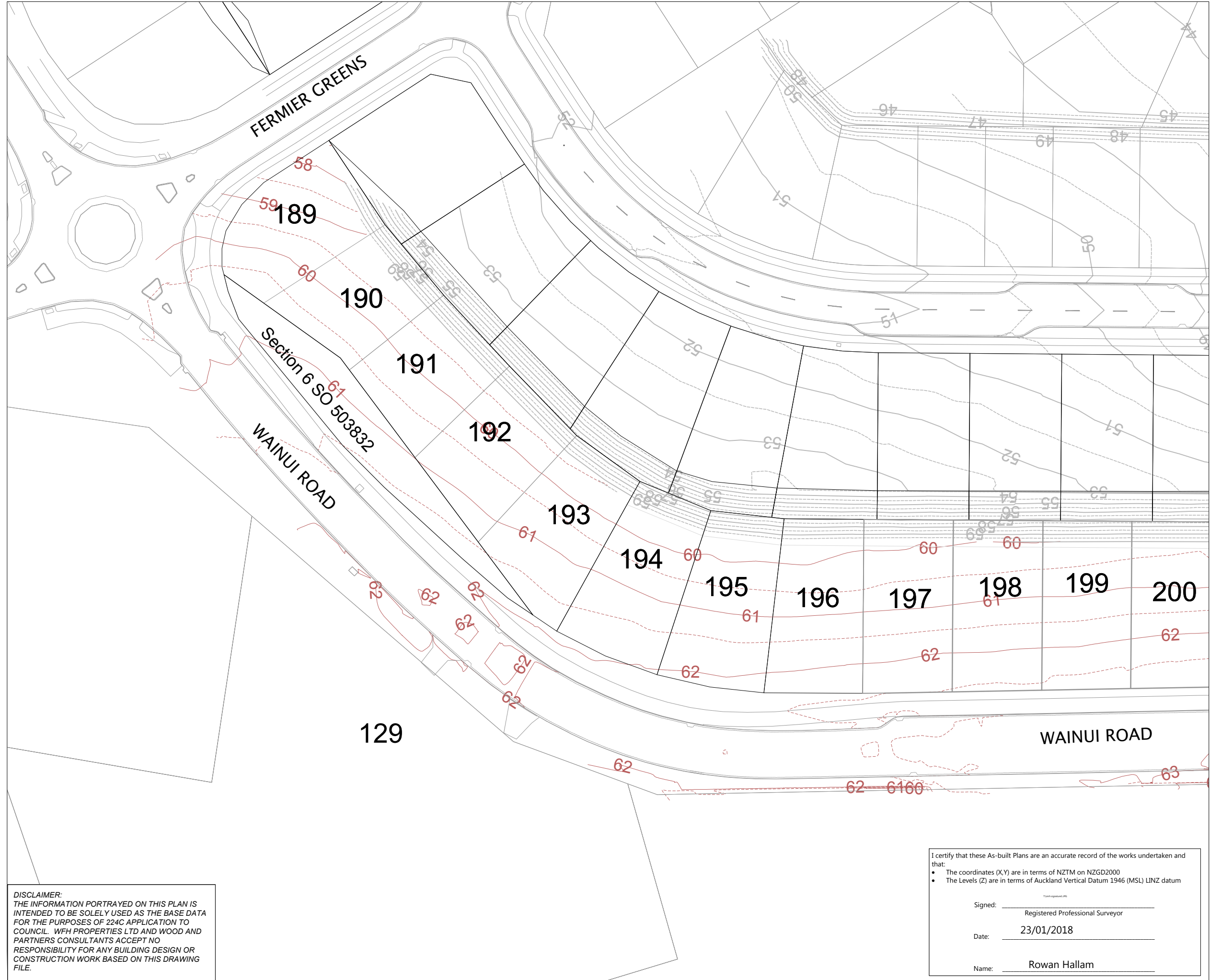
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1 ISSUED FOR INFORMATION	KR	23/02/18
3 CONTOURS EXTENDED	KR	12/02/18
4 BOUNDARY AMENDMENT	KR	7/05/18

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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**  
FINAL CONTOURS  
PAGE 1 OF 5

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-100-AB	



**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

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- - - CONTOURS MINOR
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- - - EXISTING CONTOURS MINOR
- - - STAGE BOUNDARIES
- LOT BOUNDARIES

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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

**FINAL CONTOURS  
PAGE 2 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-101-AB	

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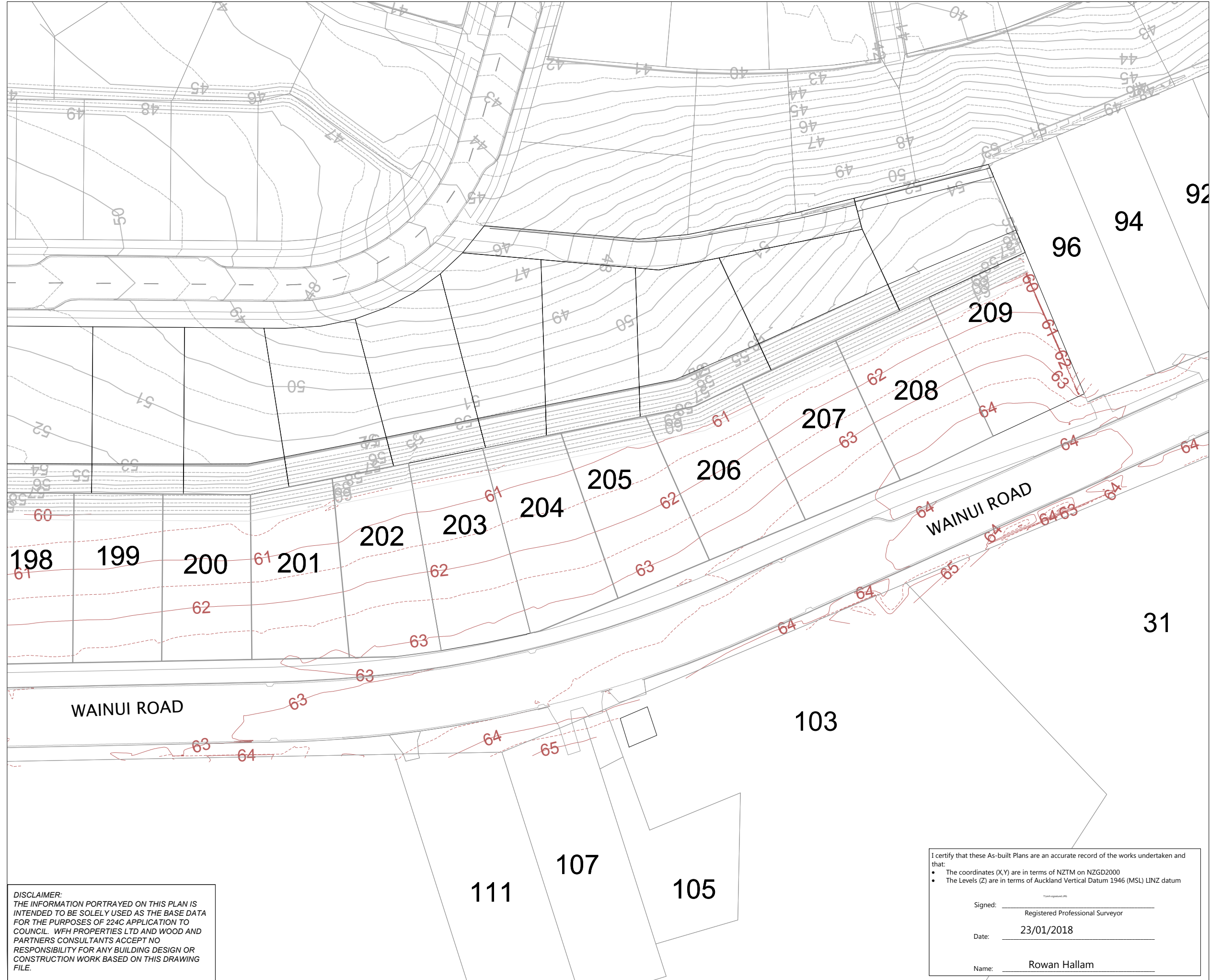
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1 ISSUED FOR INFORMATION	KR	23/01/18
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**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C - SUBSTITUTION  
 PLANS**

**FINAL CONTOURS  
 PAGE 3 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-102-AB	

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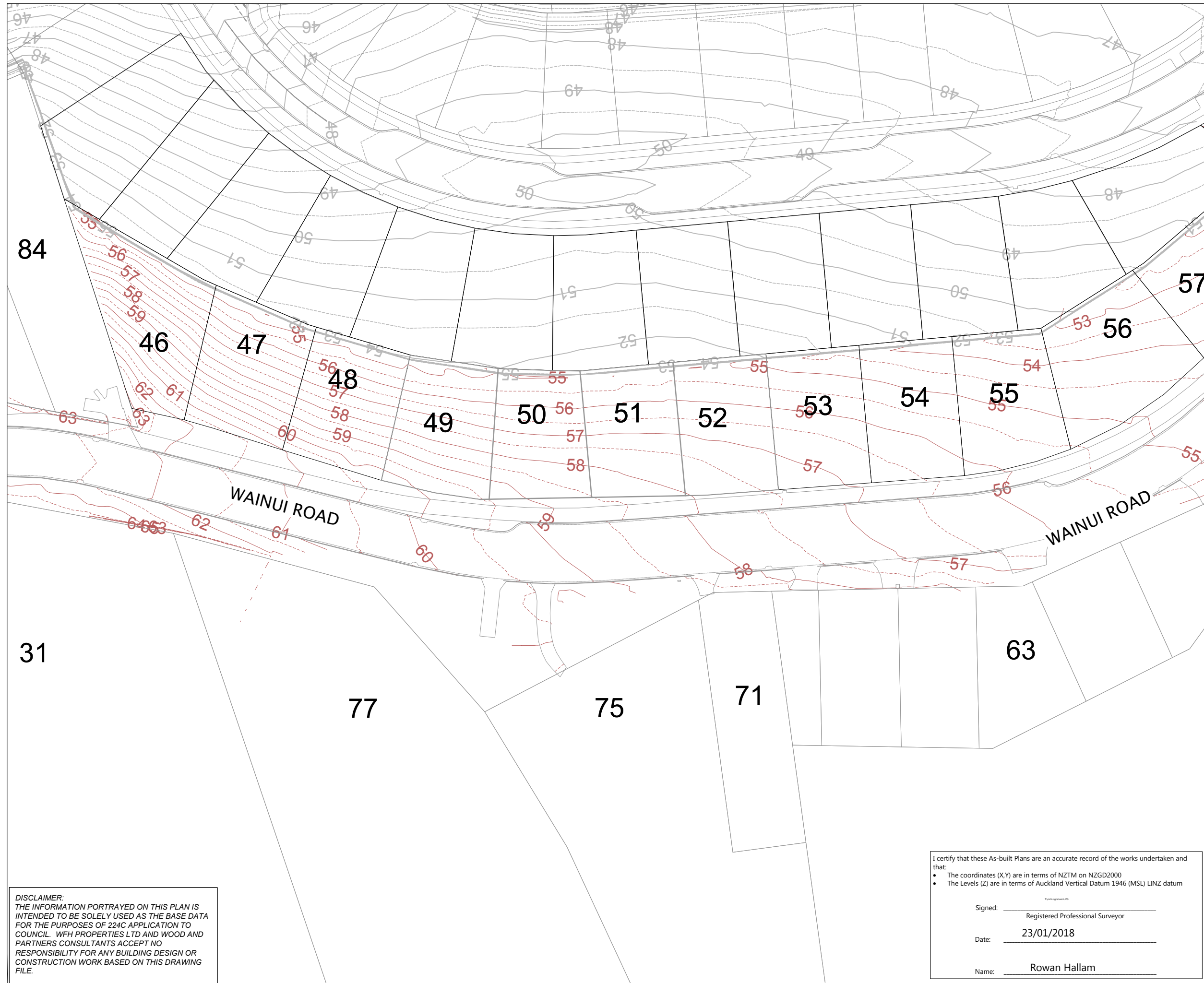
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**LEGEND**

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	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C - SUBSTITUTION  
 PLANS**

**FINAL CONTOURS  
 PAGE 4 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-103-AB	

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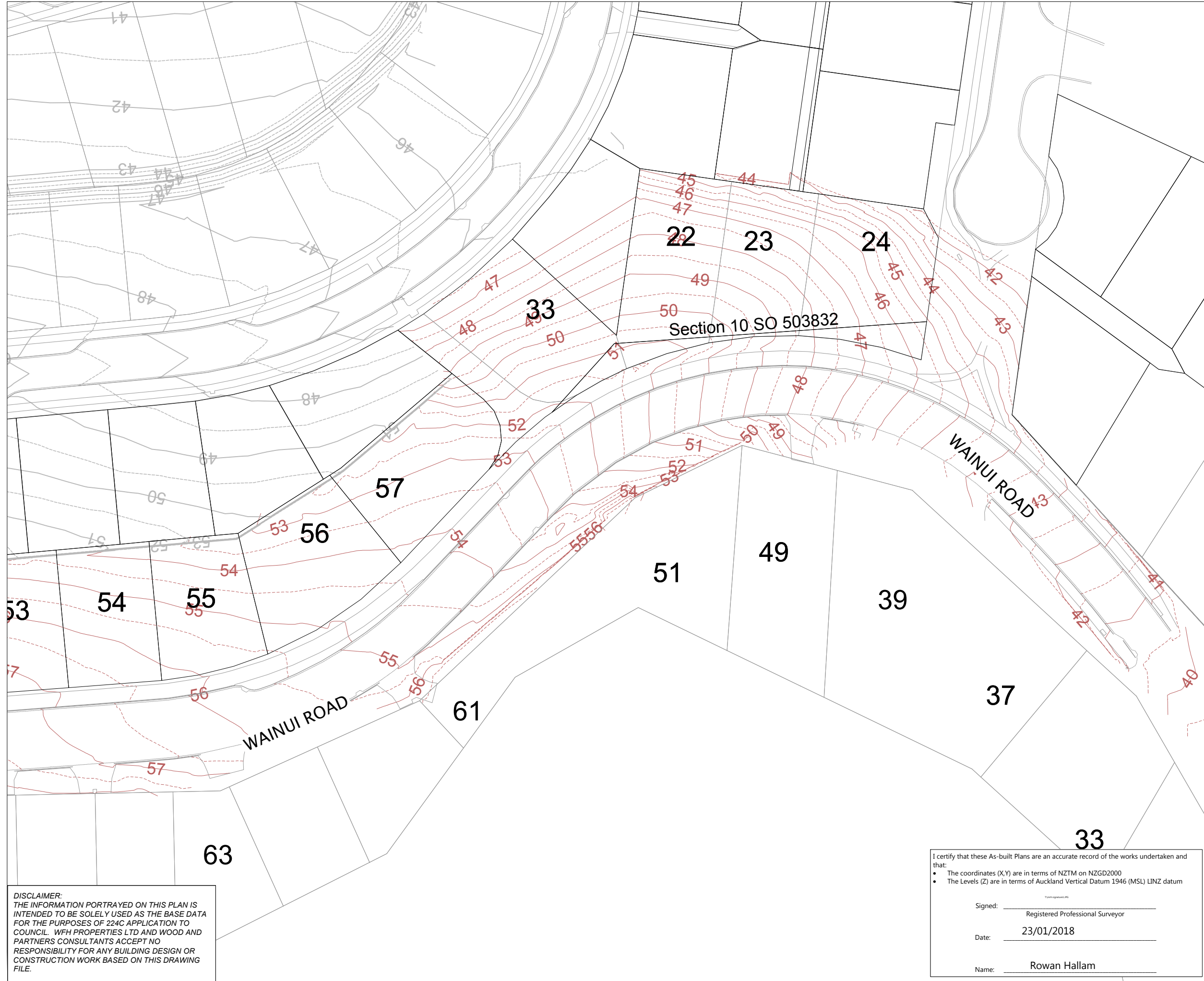
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**LEGEND**

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	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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CHECKED	KR	
APPROVED	RH	



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**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C - SUBSTITUTION  
 PLANS**

**FINAL CONTOURS  
 PAGE 5 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-104-AB	

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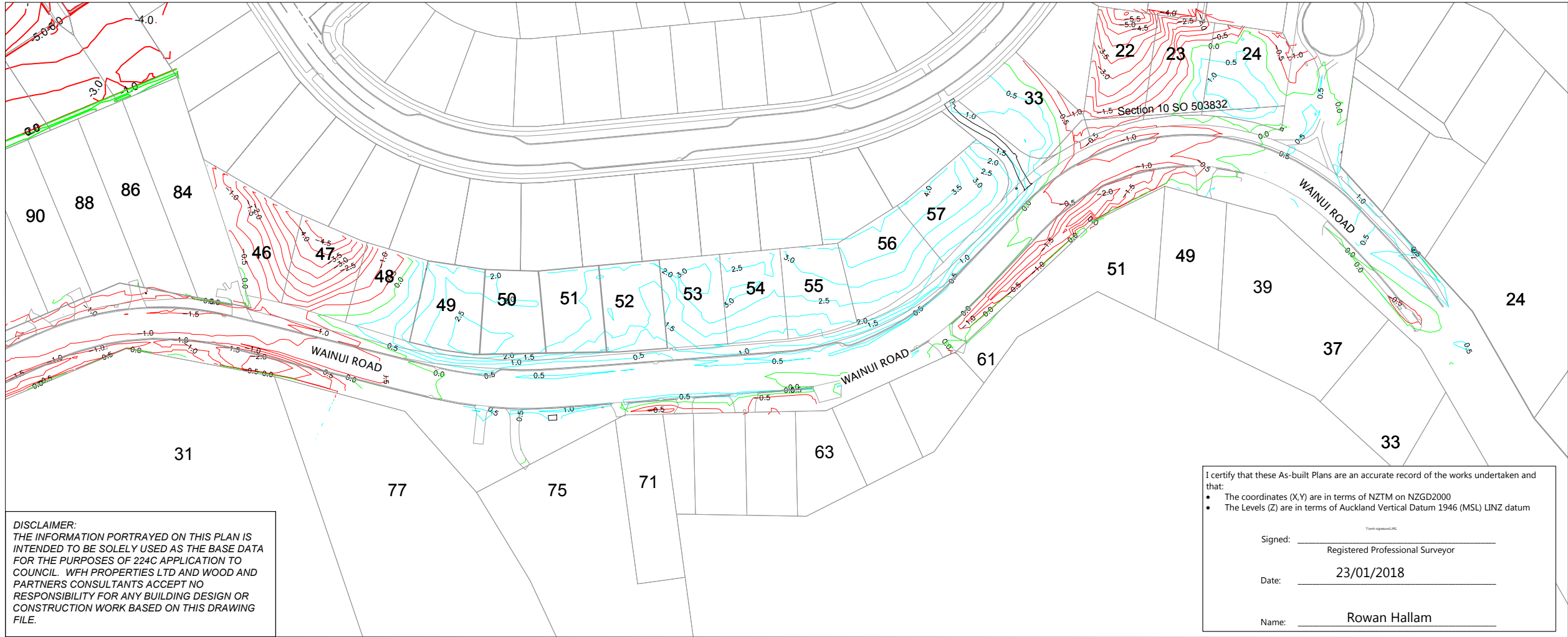
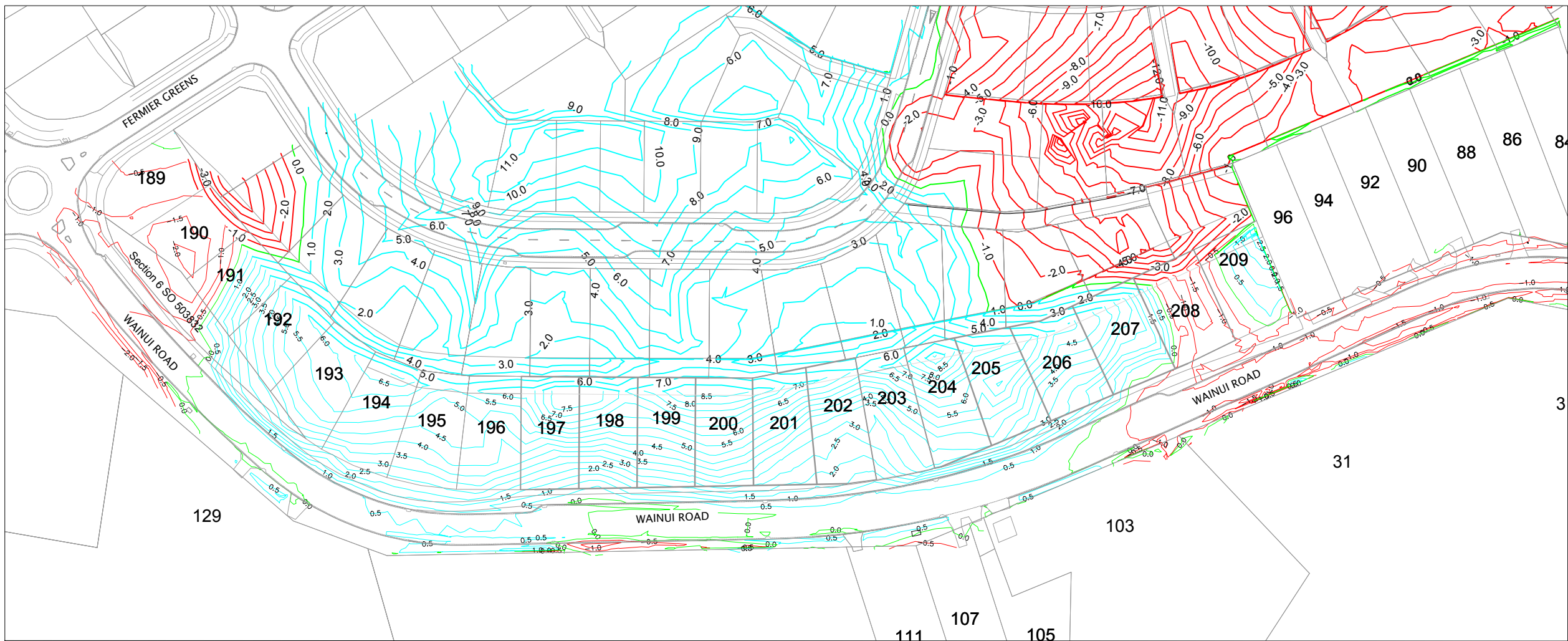
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 Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam



**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 INFORMATION	KR	23/01/18
4 CONTOURS EXTENDED	KR	12/02/18
5 BOUNDARY AMENDMENT	KR	7/05/18

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APPROVED	RH	

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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
CUT/FILL CONTOUR ASBUILT  
ORIGINAL SURFACE -  
FINAL SURFACE**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	5
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-110-AB	

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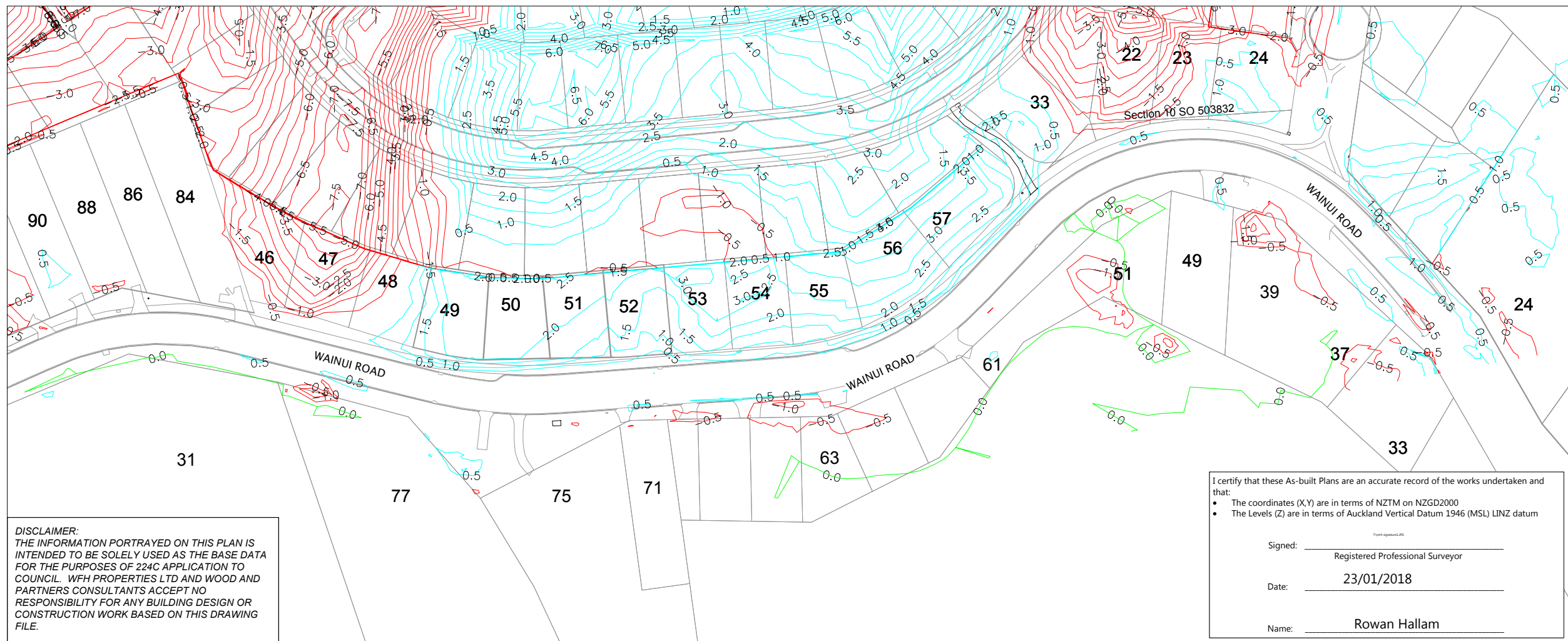
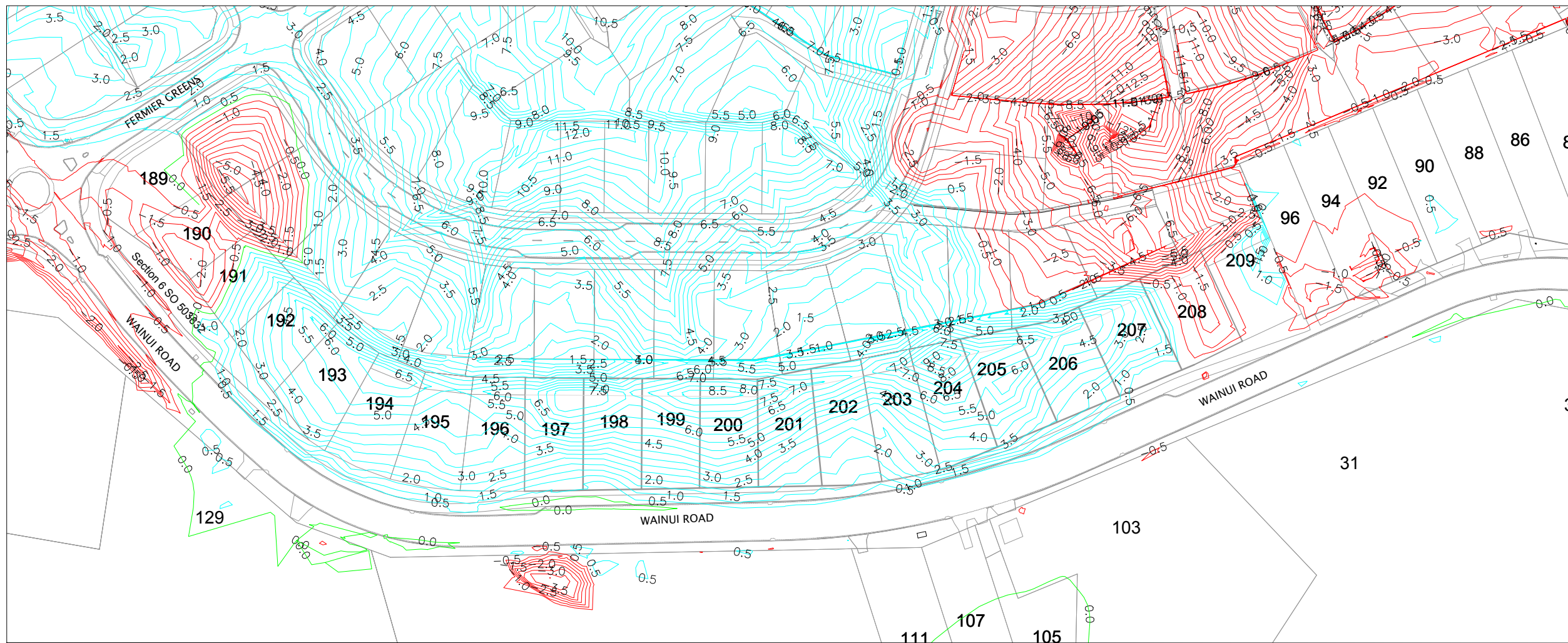
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**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

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

REVISION DETAILS		BY	DATE
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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
CUT/FILL CONTOUR ASBUILT  
ORIGINAL SURFACE -  
EARTHWORKS SURFACE**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	5
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-111-AB	

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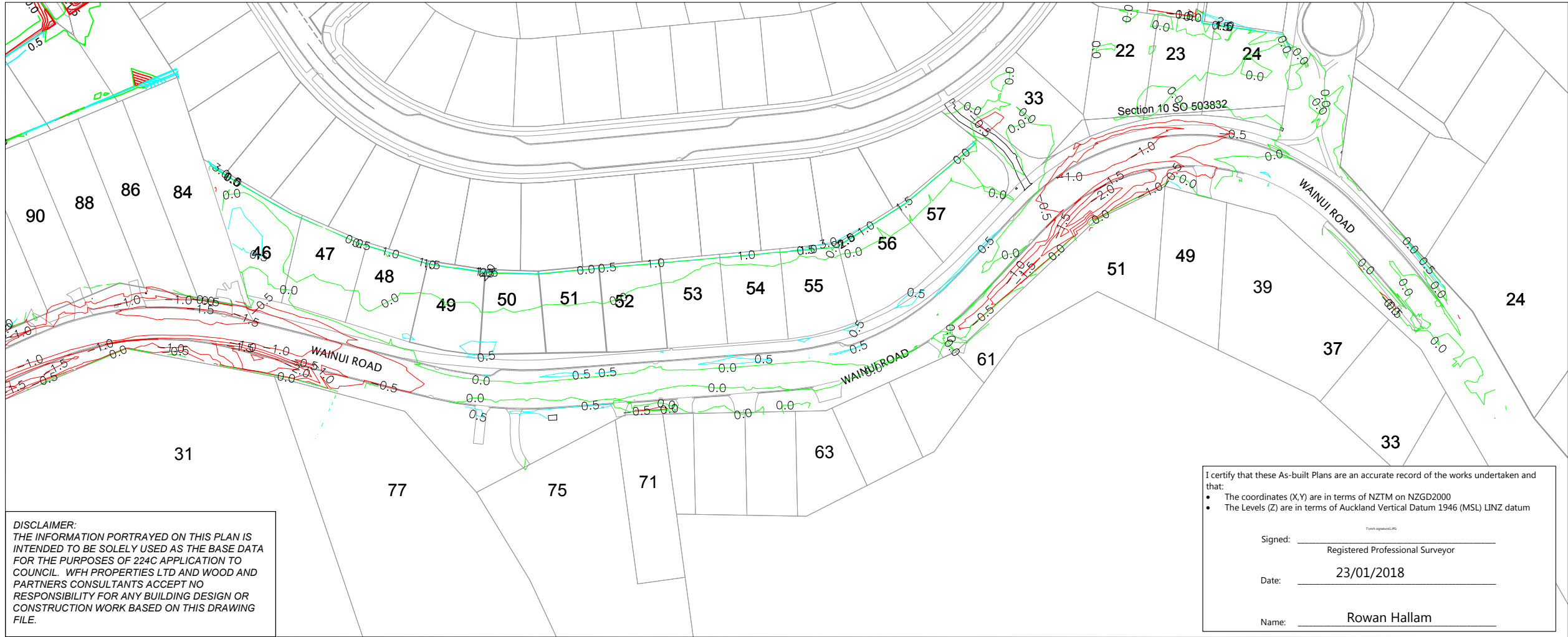
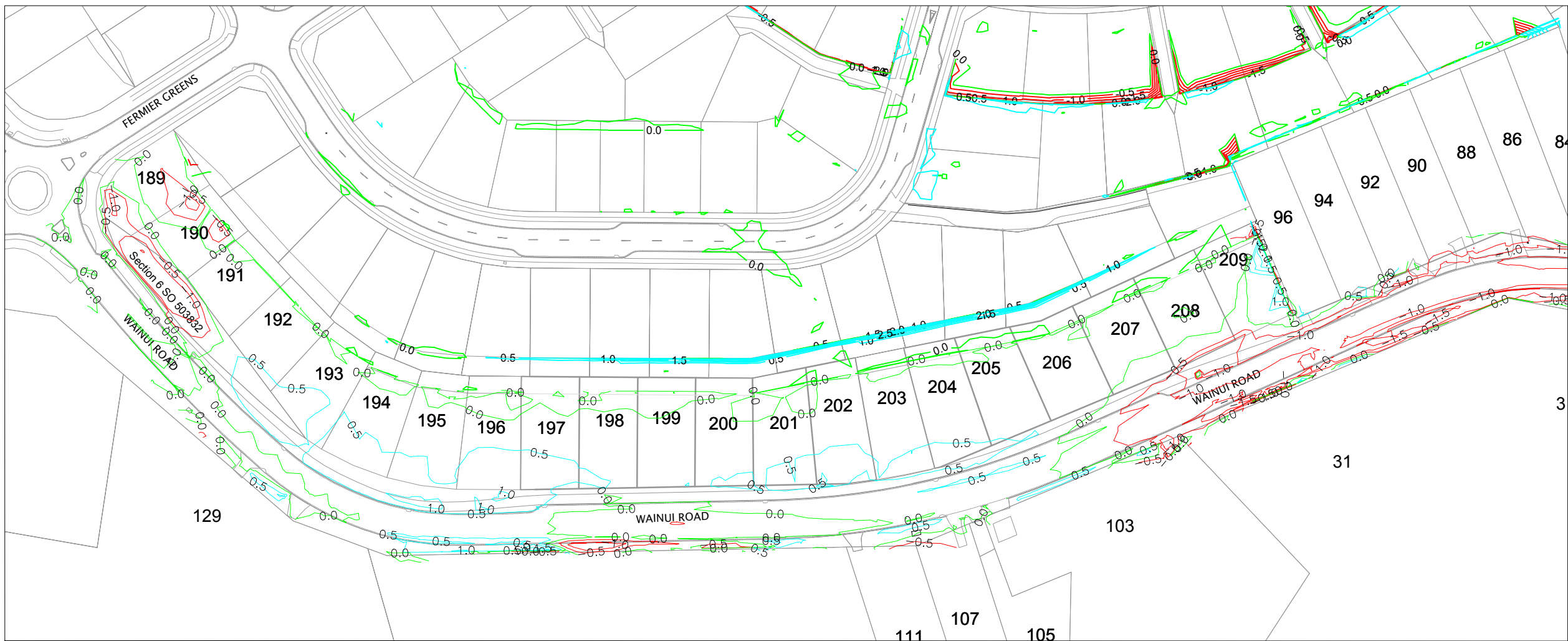
From: wfhproperties.co.nz

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Name: Rowan Hallam





**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

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	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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CHECKED	KR	
APPROVED	RH	

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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
CUT/FILL CONTOUR ASBUILT  
EARTHWORKS SURFACE -  
FINAL SURFACE**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	5
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-112-AB	

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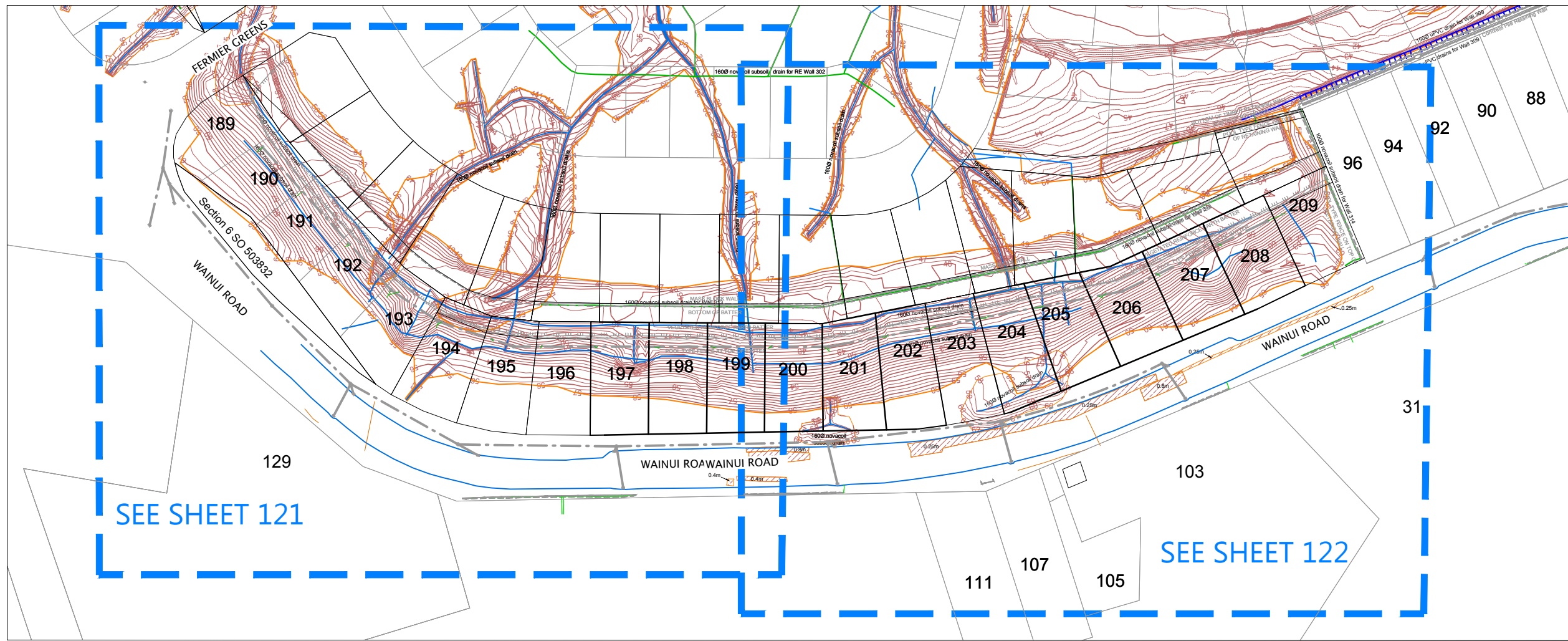
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Date: 23/01/2018

Name: Rowan Hallam





**NOTES**

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

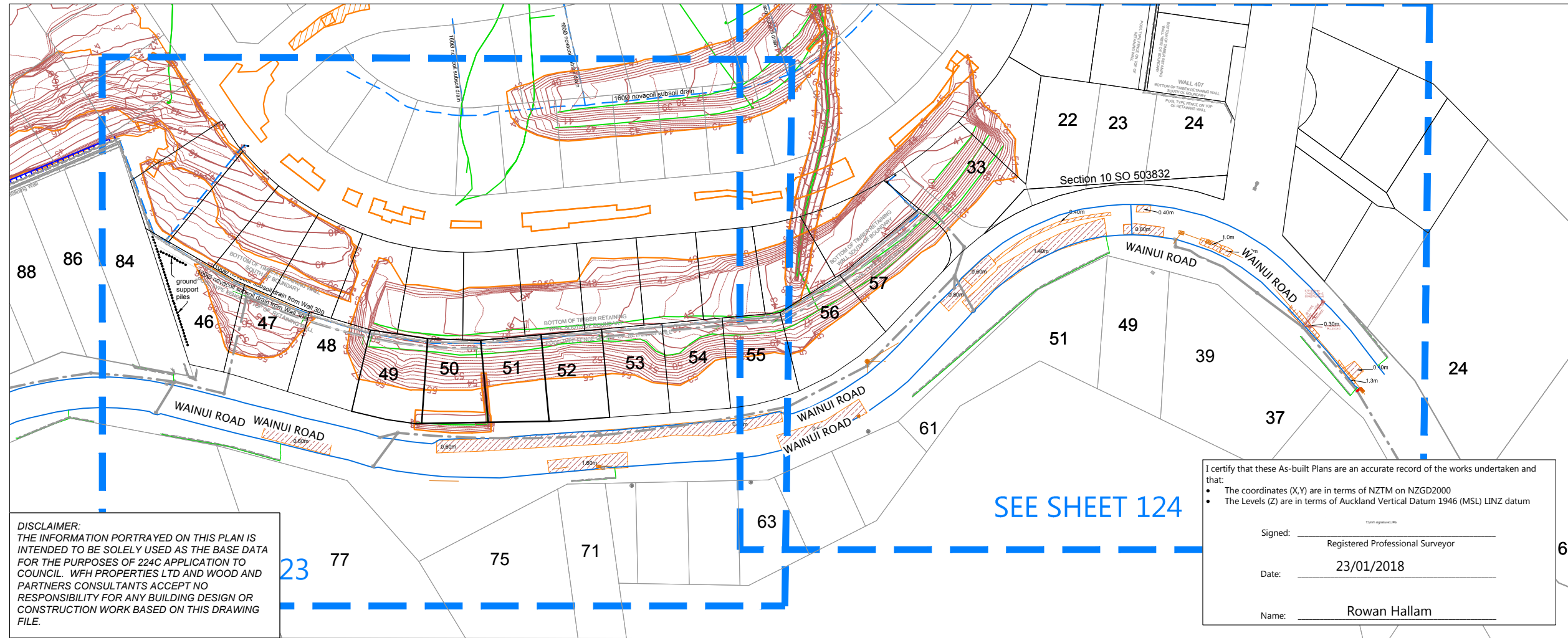
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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 1 OF 5**

STATUS	AS-BUILT	REV
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COUNCIL	AUCKLAND COUNCIL	
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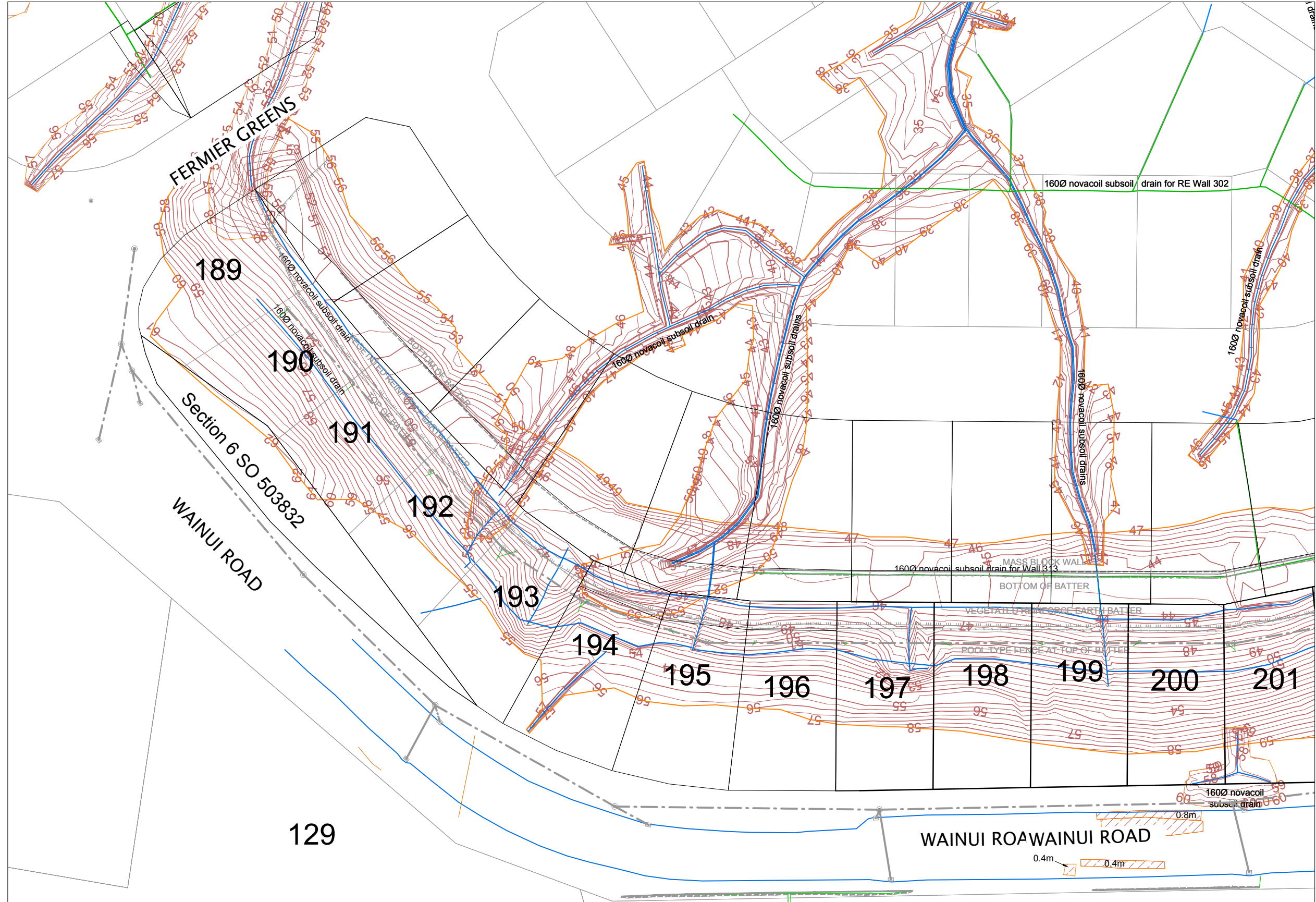
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- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 2 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750@ A3	3
COUNCIL	AUCKLAND COUNCIL	
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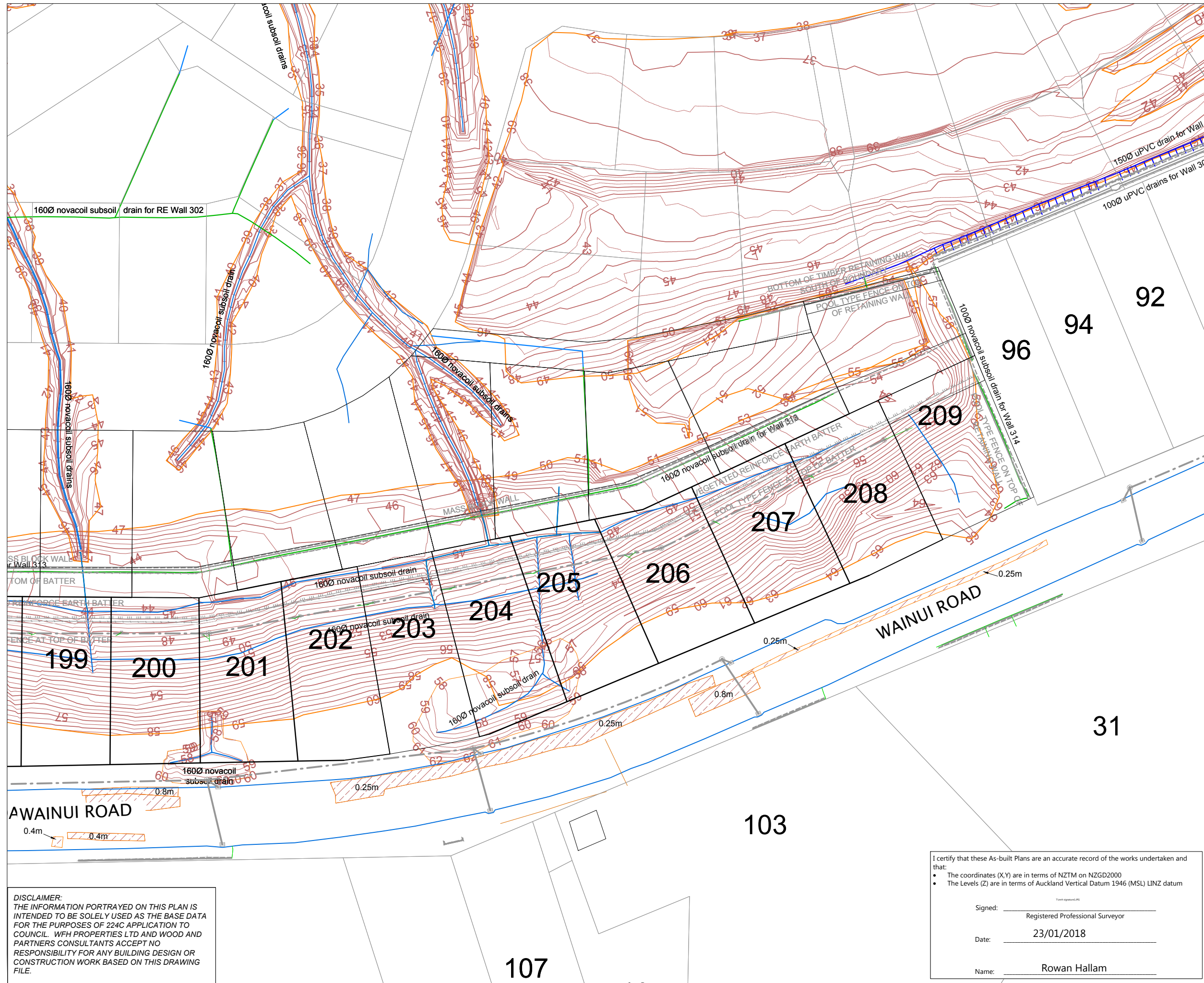
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**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 3 OF 5**

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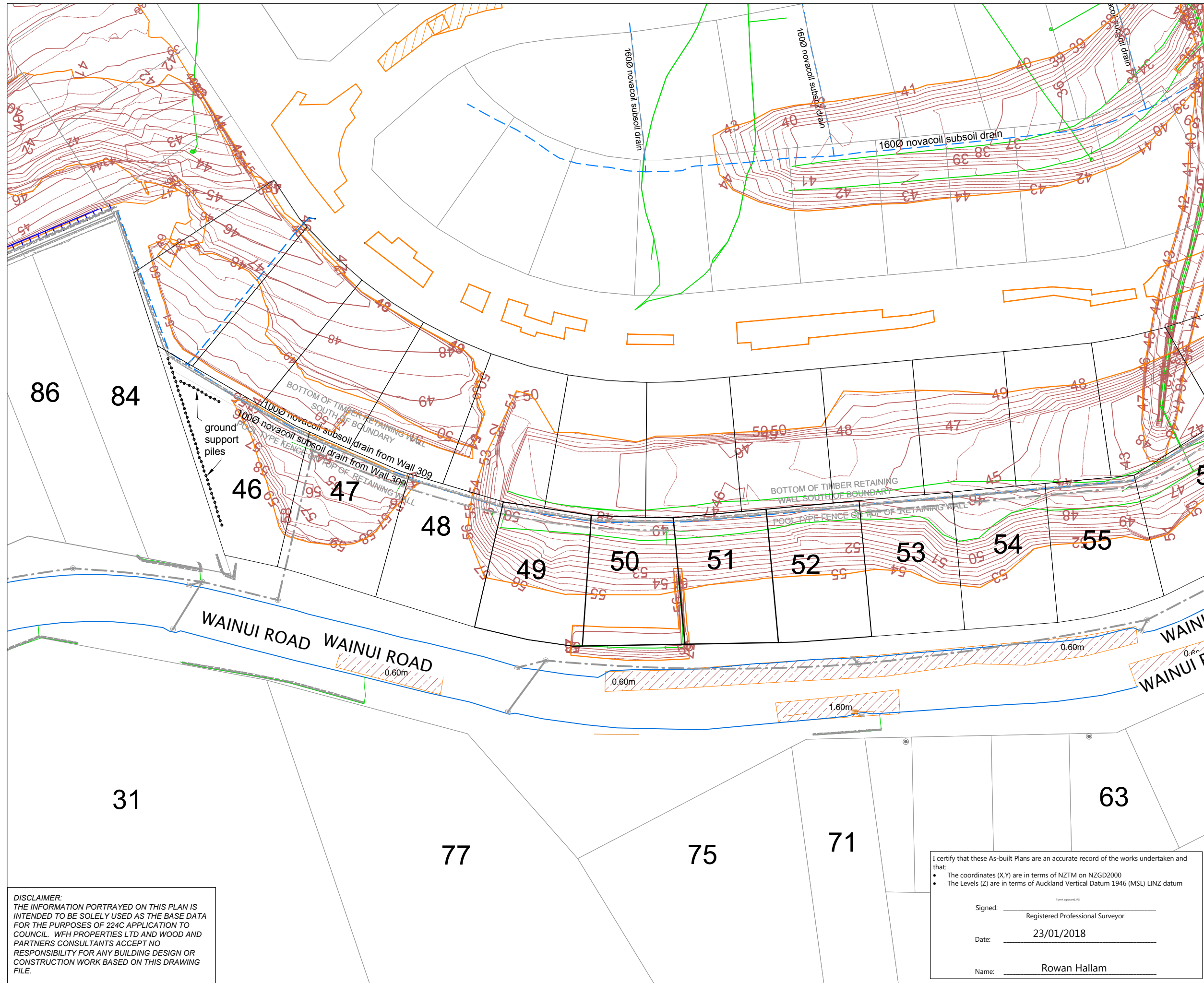
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam





**NOTES**

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
2 DATA ADDED	KR	12/02/18
3 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 4 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750@ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-123-AB	

**DISCLAIMER:**  
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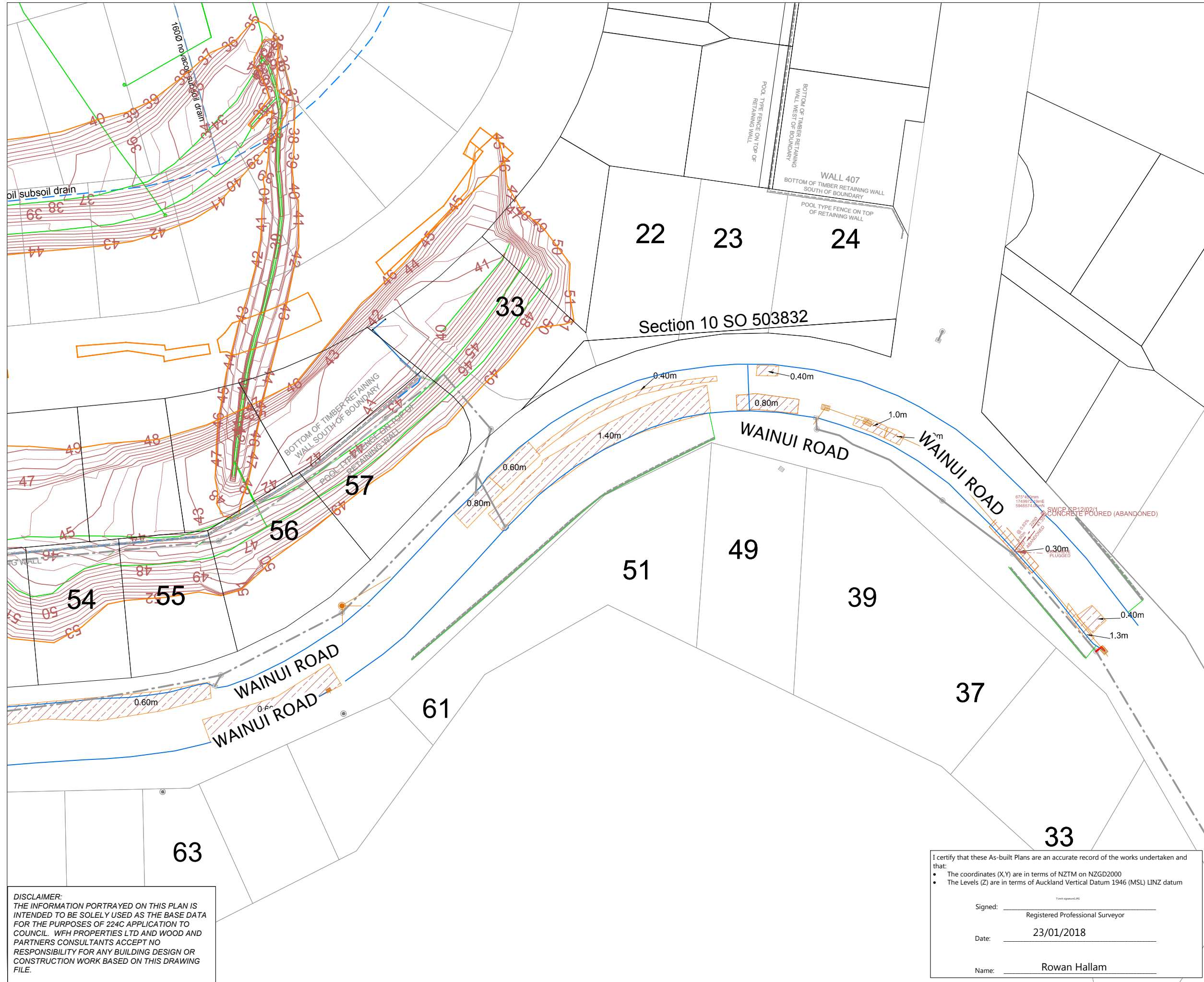
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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam





**NOTES**

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
2 DATA ADDED	KR	12/02/18
3 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 5 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750@ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-124-AB	

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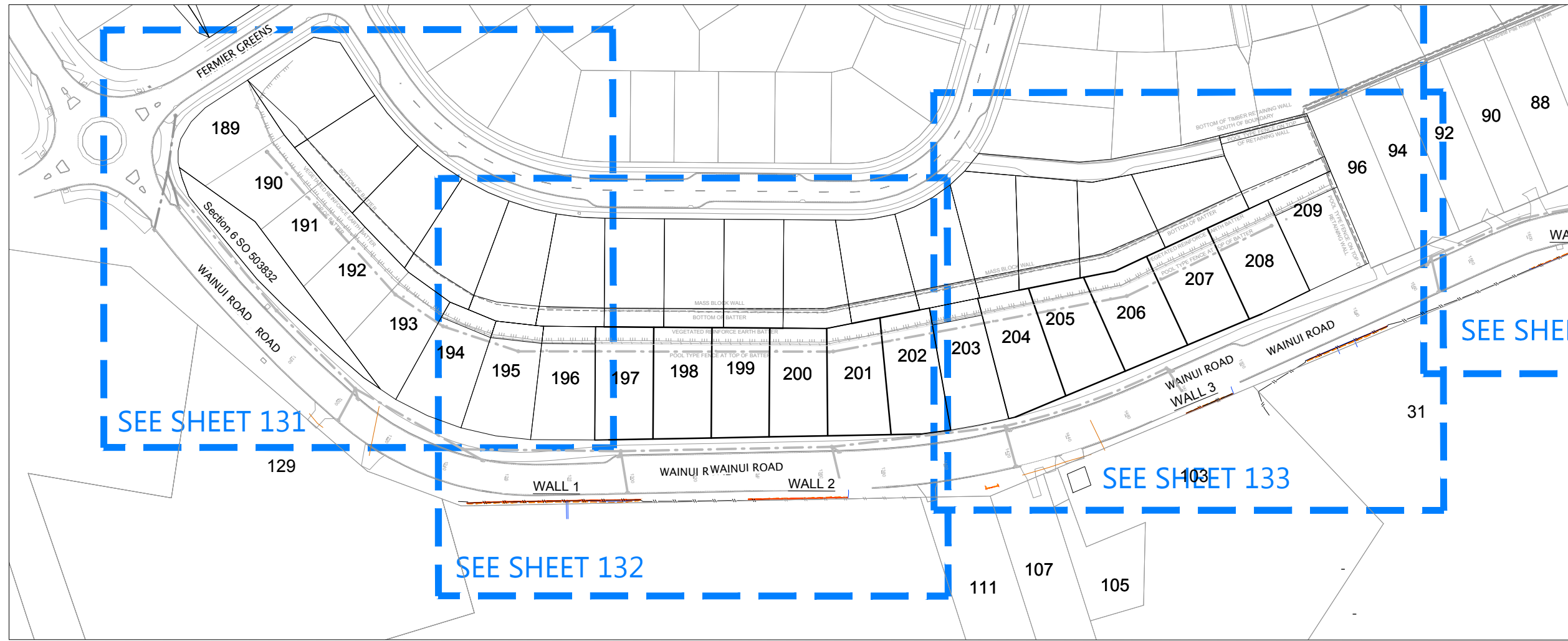
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam



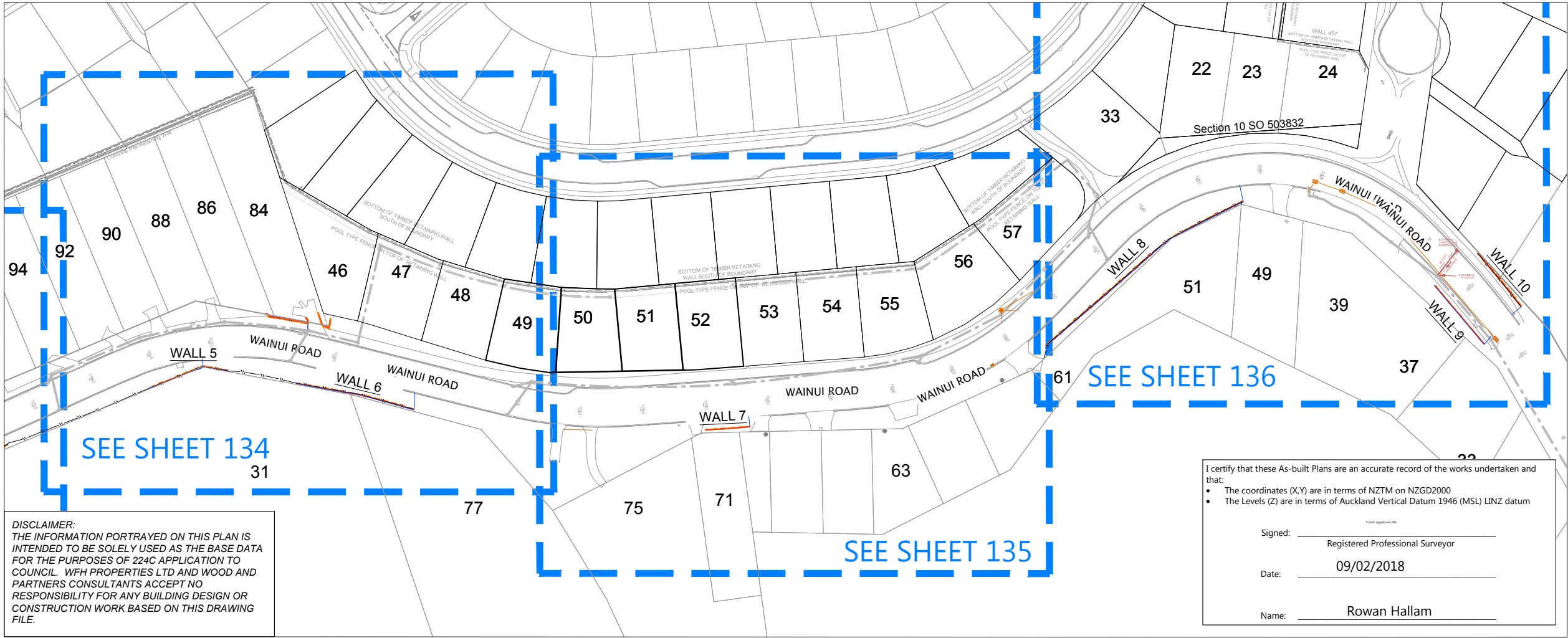
### LEGEND:

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

- ### NOTES
- 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 INFORMATION	KH	09/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



## MILLWATER WAINUI ROAD UPGRADE PART C - SUBSTITUTION PLANS RETAINING WALL AS-BUILT OVERALL LAYOUT SHEET 1 OF 7

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: 09/02/2018

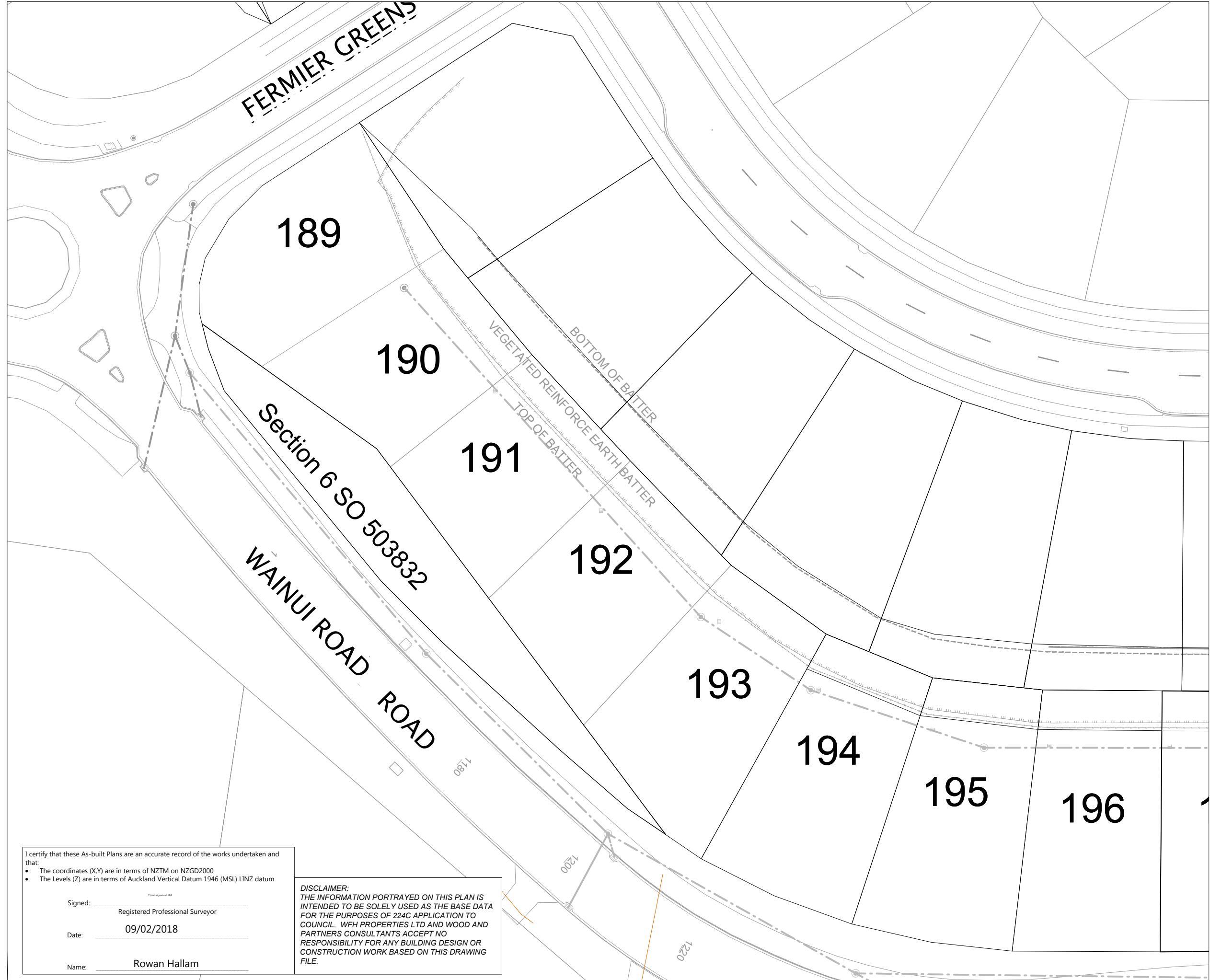
Name: Rowan Hallam

**DISCLAIMER:**  
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STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-130-AB	

J:\P18-105 - MILLWATER WAINUI ROAD SUBDIVISION\DRAWINGS\ASBUILT\33726-00-130-AB-WALLS.DWG





**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

**NOTES**

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
RETAINING WALL AS-BUILT  
SHEET 2 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-131-AB	

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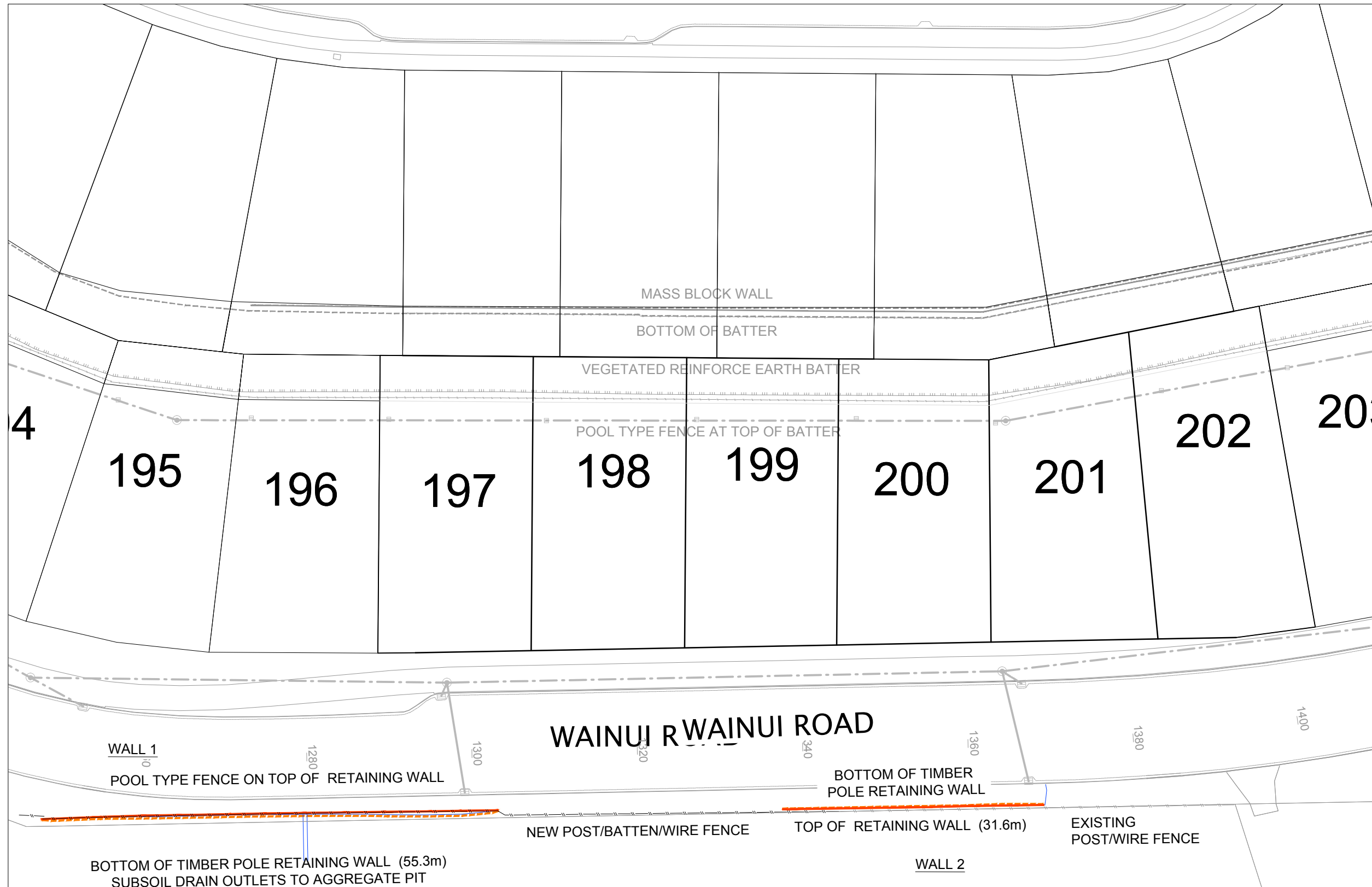
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam

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**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

- NOTES**
1. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  2. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	09/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
RETAINING WALL AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-132-AB	

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Town signatory Ltd

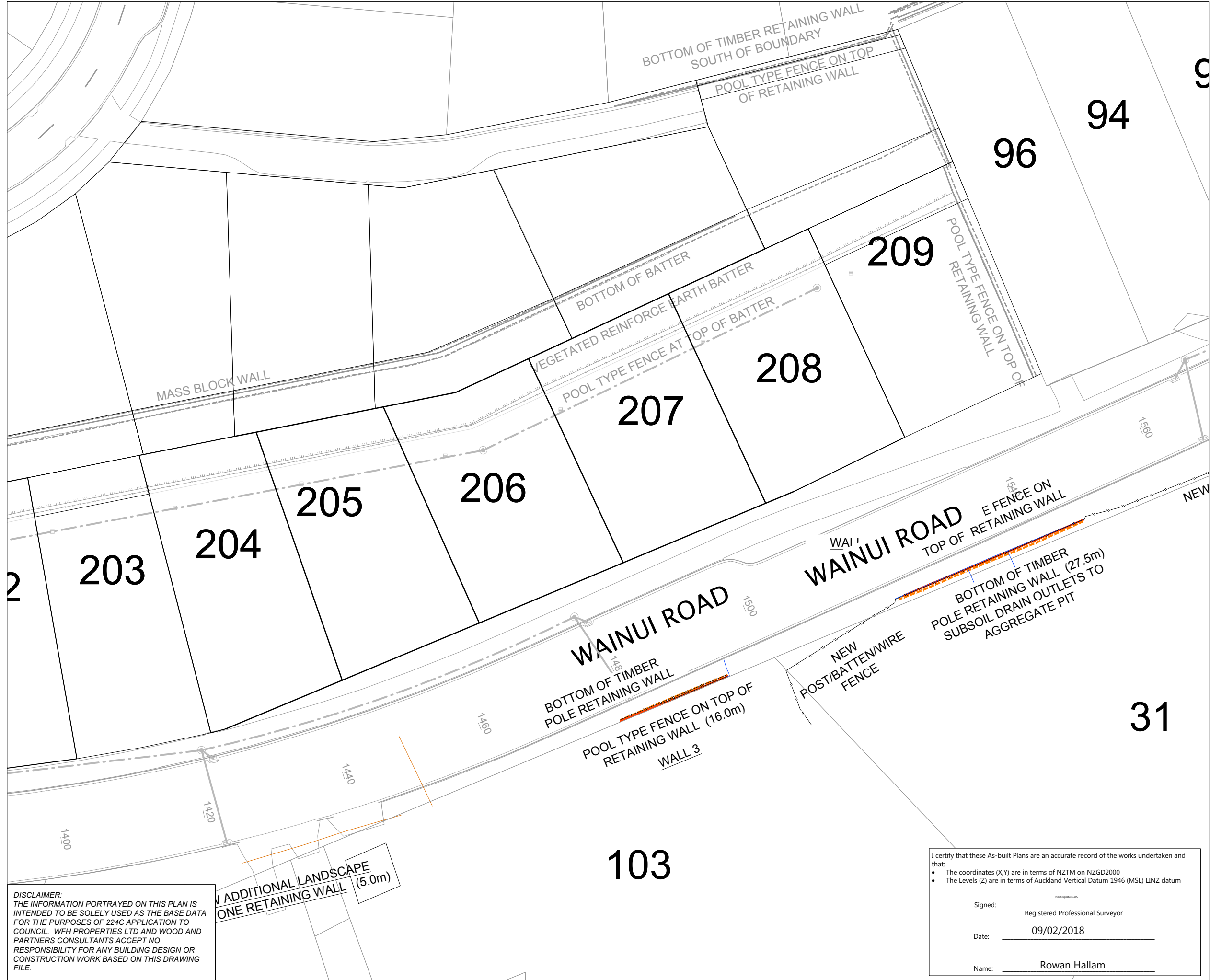
Signed: \_\_\_\_\_  
 Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam

J:\P18-105 - MILLWATER WAINUI ROAD SUBDIVISION\DRAWINGS\SURV\ASBUILT\33726-00-132-AB-WALL3.DWG





**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

**NOTES**

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
RETAINING WALL AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-133-AB	

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ADDITIONAL LANDSCAPE ONE RETAINING WALL (5.0m)

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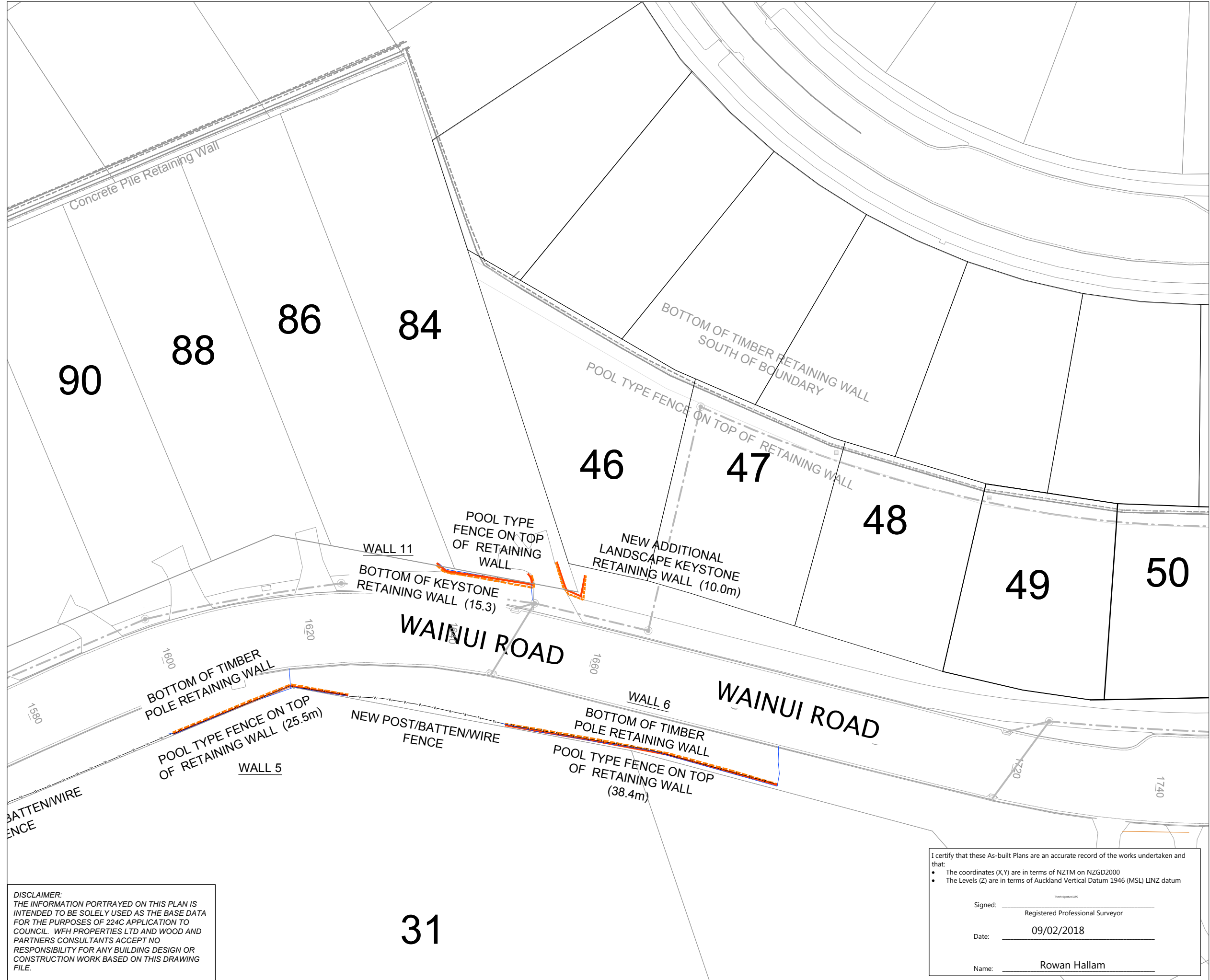
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

From: eggsurvey.co.nz

Signed: \_\_\_\_\_  
 Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam



**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
RETAINING WALL AS-BUILT  
SHEET 5 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-134-AB	

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From signature file

Signed: \_\_\_\_\_  
Registered Professional Surveyor

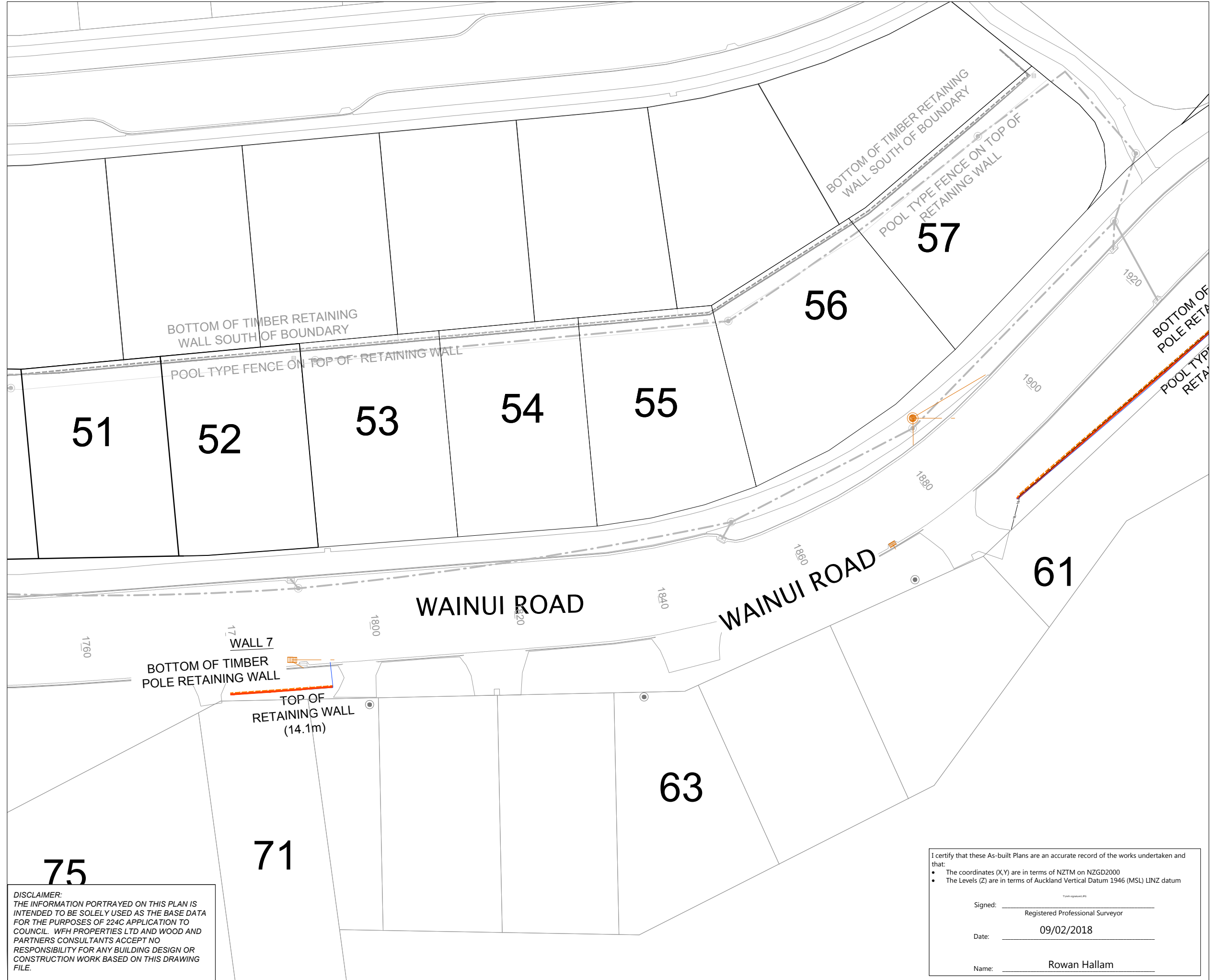
Date: 09/02/2018

Name: Rowan Hallam

31

J:\P16-105 - MILLWATER WAINUI ROAD SUBDIVISION\DRAWINGS\ASBUILT\33726-00-134-AB-WALLS.DWG





**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
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- EXISTING BOTTOM OF BANK
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- BOUNDARY
- WALL DRAINAGE LINE

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DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
RETAINING WALL AS-BUILT  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-135-AB	

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Tim Hallam Ltd

Signed: \_\_\_\_\_  
 Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam

J:\P16-105 - MILLWATER WAINUI ROAD SUBDIVISION\DRAWINGS\SURV\ASBUILT\33726-00-135-AB-WALLS.DWG

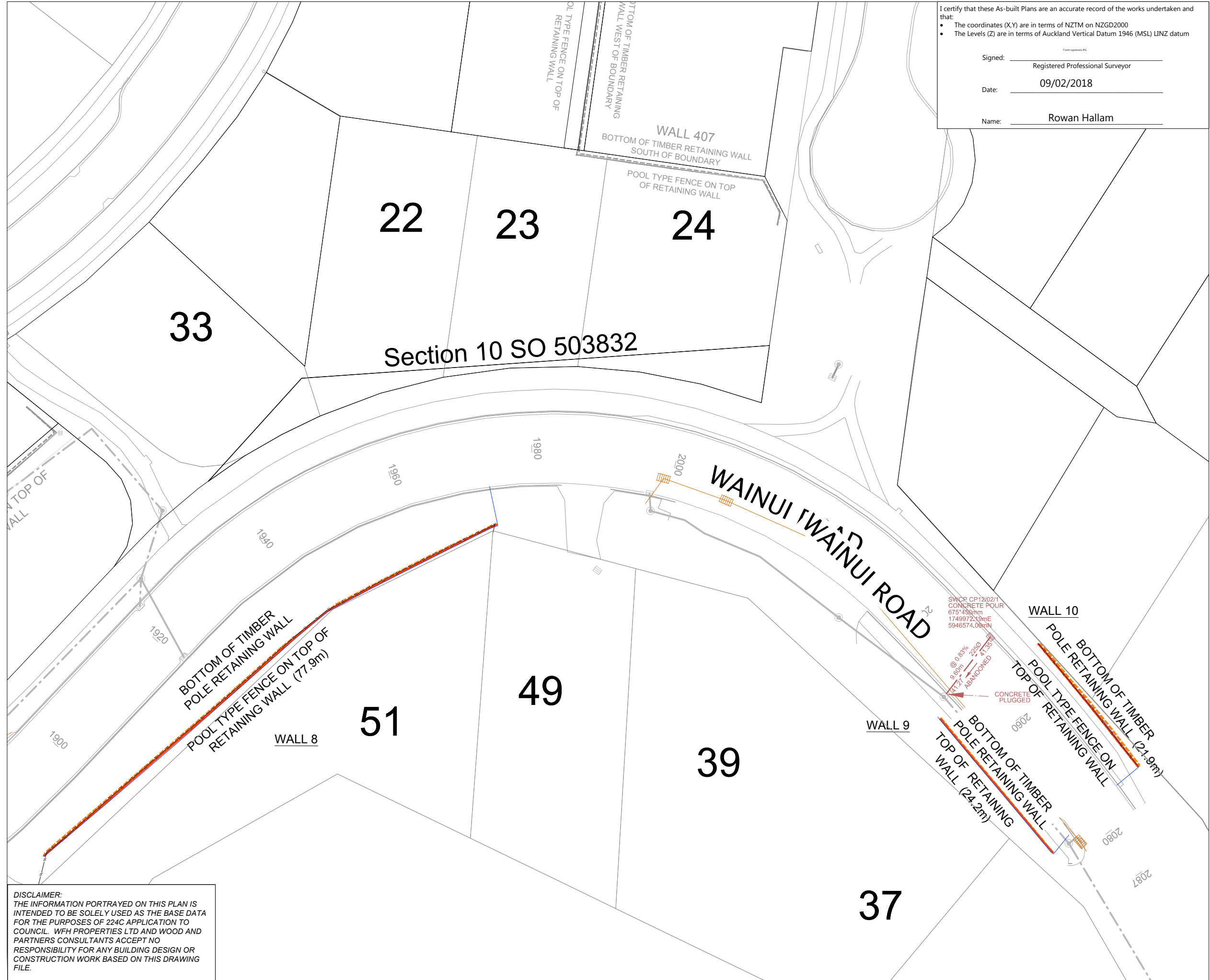
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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam



### LEGEND:

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

### NOTES

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REVISION DETAILS	BY	DATE
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2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

## MILLWATER WAINUI ROAD UPGRADE PART C - SUBSTITUTION PLANS

### RETAINING WALL AS-BUILT SHEET 7 OF 7

STATUS	<b>AS-BUILT</b>	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-136-AB	

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J:\P16-105 - MILLWATER WAINUI ROAD SUBDIVISION\DRAWINGS\SURV\ASBUILT\33726-00-136-AB-WALLS.DWG





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: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: ROWAN HALLAM

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
  - ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
  - ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE DG10, 30mm THICK.
  - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
  - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
SL06	1749346.97	5946458.27	
SL07	1749373.35	5946479.47	
SL08	1749406.37	5946468.58	
SL09	1749426.95	5946495.23	
SL10	1749468.90	5946494.29	
SL11	1749487.93	5946522.05	
SL12	1749529.16	5946521.29	
SL13	1749550.30	5946548.01	
SL14	1749588.57	5946537.66	
SL15	1749621.75	5946547.25	
SL16	1749649.51	5946524.01	
SL17	1749684.88	5946534.24	
SL18	1749714.84	5946516.33	
SL19	1749746.58	5946536.54	
SL20	1749780.25	5946521.05	
SL21	1749805.68	5946545.12	
SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

**LEGEND**

- STREET LIGHT
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- CYCLE LANE BIKE SIGNS, RG 26
- SS ISOLATION VALVE
- SS FLUSHING POINT
- SS AIR VALVE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- GAS METER
- TELECOMMUNICATIONS MANHOLE
- TELECOMMUNICATIONS PLINTH
- SPEED SIGN, RG 1
- ARROW SIGN, PW 17
- POWER BOX
- BOUNDARY KIT BOX
- SAFETY BARRIER
- TACTILE PAVERS

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

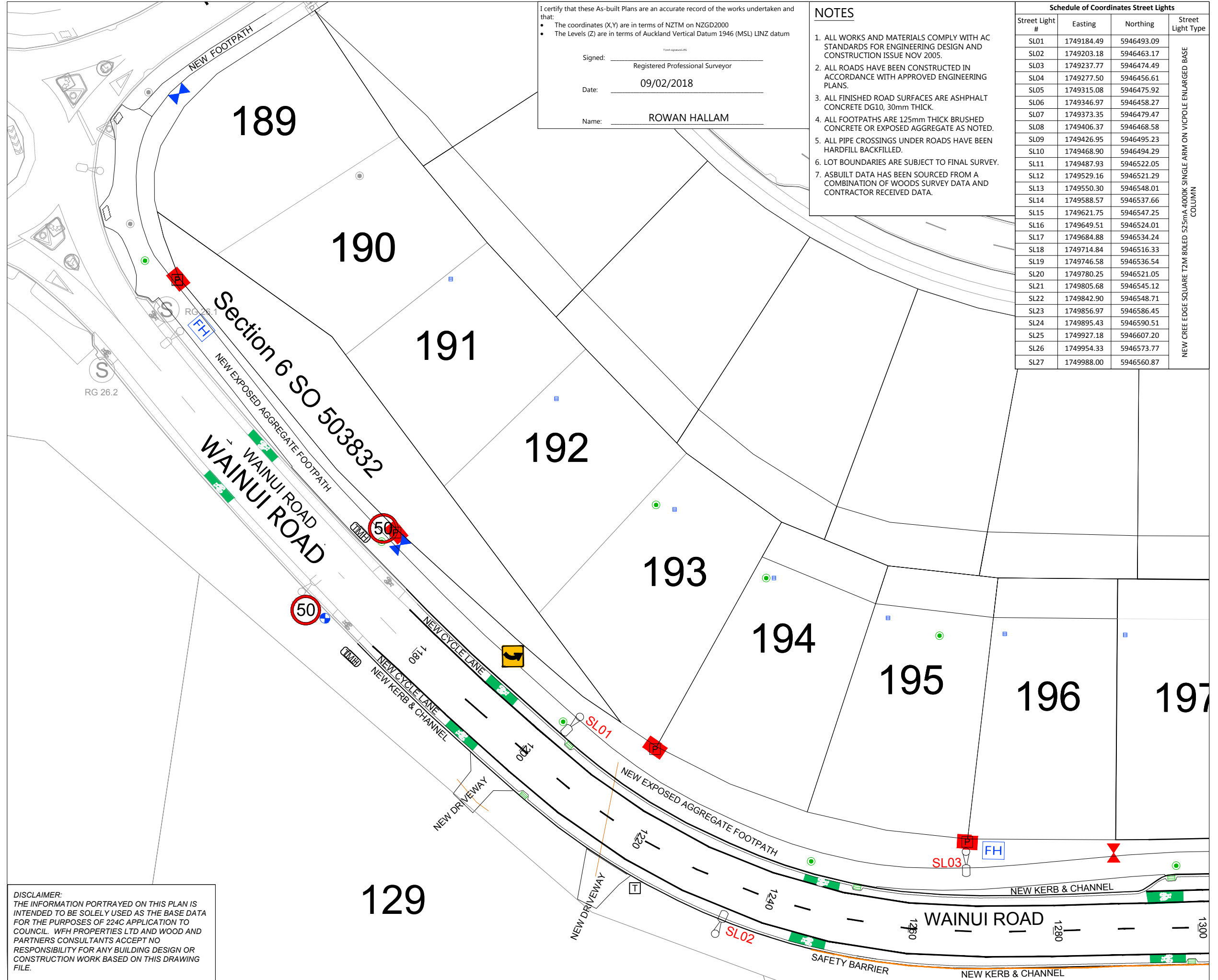
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

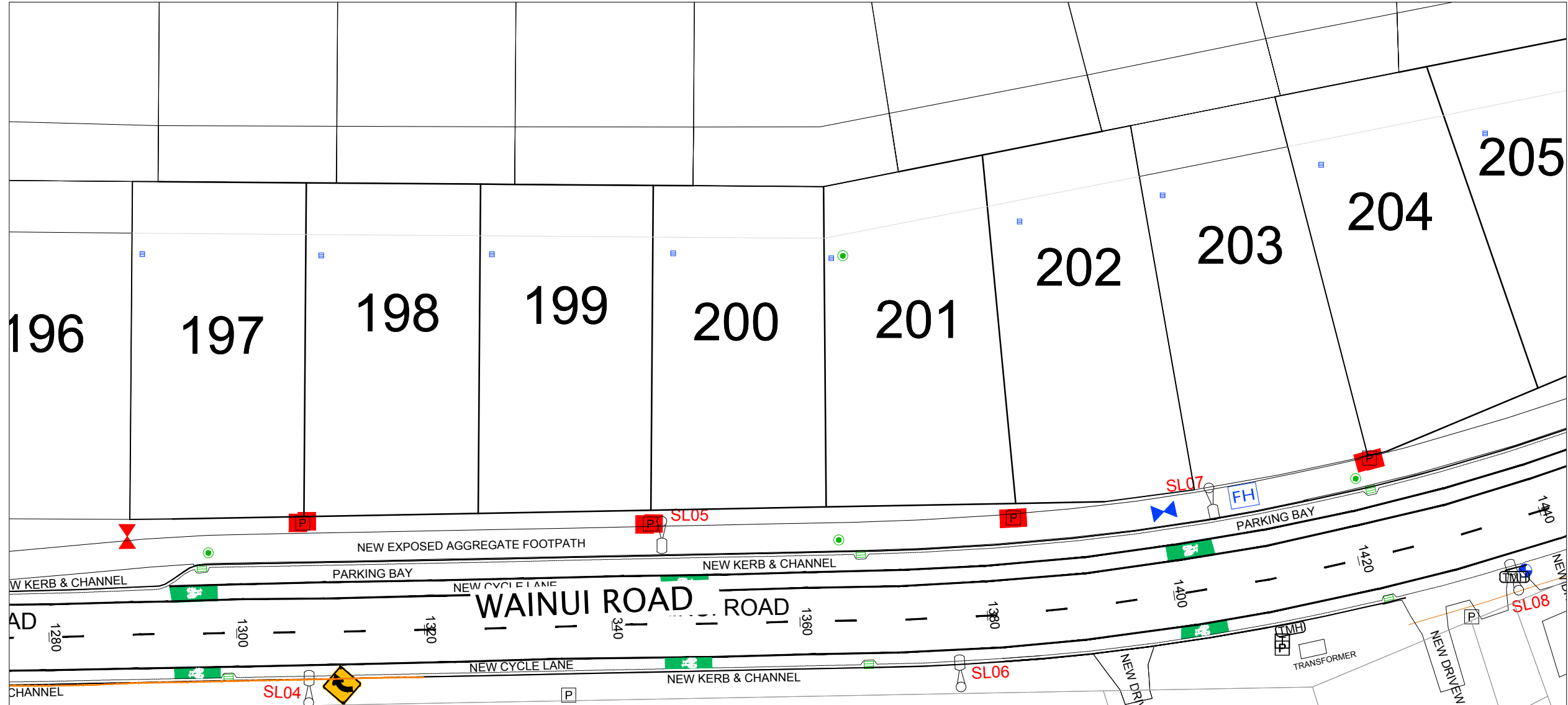
ROADING AS-BUILT  
SHEET 2 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-201-AB	



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LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PLINTH
	SPEED SIGN, RG 1
	ARROW SIGN, PW 17
	POWER BOX
	BOUNDARY KIT BOX
	SAFETY BARRIER
	TACTILE PAVERS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
ROADING AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-202-AB	

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
SL06	1749346.97	5946458.27	
SL07	1749373.35	5946479.47	
SL08	1749406.37	5946468.58	
SL09	1749426.95	5946495.23	
SL10	1749468.90	5946494.29	
SL11	1749487.93	5946522.05	
SL12	1749529.16	5946521.29	
SL13	1749550.30	5946548.01	
SL14	1749588.57	5946537.66	
SL15	1749621.75	5946547.25	
SL16	1749649.51	5946524.01	
SL17	1749684.88	5946534.24	
SL18	1749714.84	5946516.33	
SL19	1749746.58	5946536.54	
SL20	1749780.25	5946521.05	
SL21	1749805.68	5946545.12	
SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

**NOTES**

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- ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
- ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
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- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

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

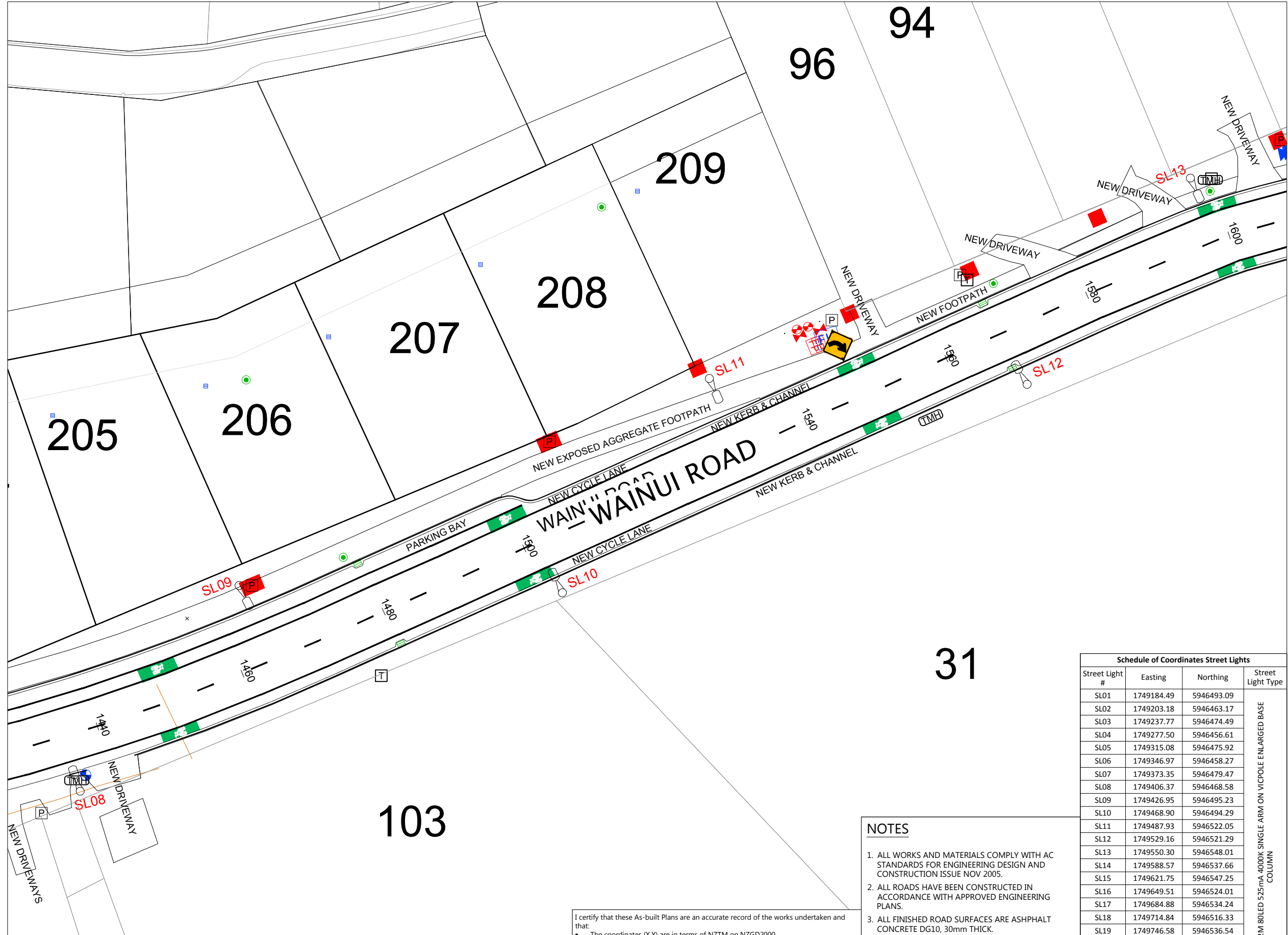
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: ROWAN HALLAM

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LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PLINTH
	SPEED SIGN, RG 1
	ARROW SIGN, PW 17
	POWER BOX
	BOUNDARY KIT BOX
	SAFETY BARRIER
	TACTILE PAVERS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	NEW CREE EDGE SQUARE T2M 80LED 525mA 4000K SINGLE ARM ON VICPOLE ENLARGED BASE COLUMN
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
SL06	1749346.97	5946458.27	
SL07	1749373.35	5946479.47	
SL08	1749406.37	5946468.58	
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SL11	1749487.93	5946522.05	
SL12	1749529.16	5946521.29	
SL13	1749550.30	5946548.01	
SL14	1749588.57	5946537.66	
SL15	1749621.75	5946547.25	
SL16	1749649.51	5946524.01	
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SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

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SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

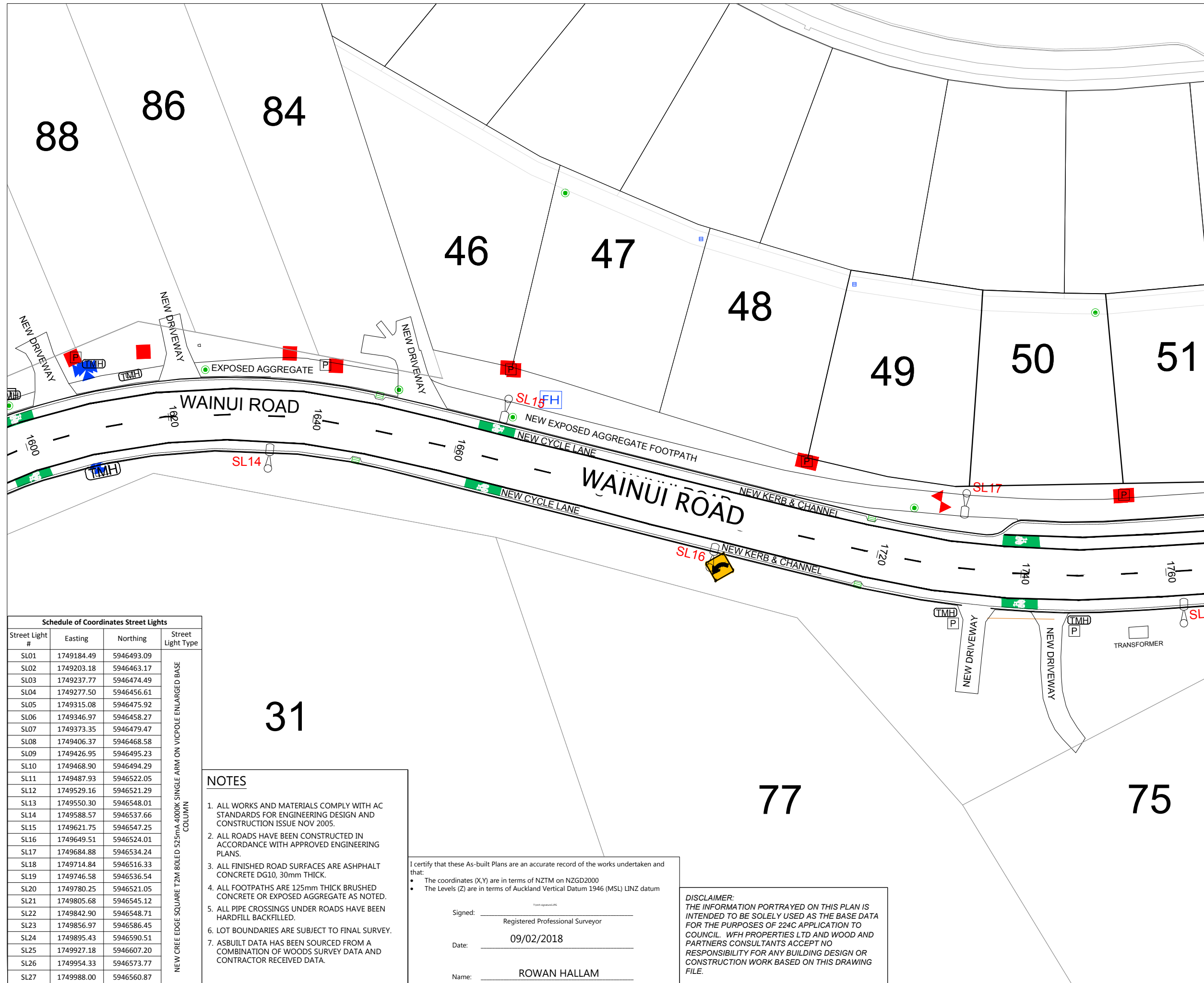


**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

ROADING AS-BUILT  
SHEET 4 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-203-AB	





LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PLINTH
	SPEED SIGN, RG 1
	ARROW SIGN, PW 17
	POWER BOX
	BOUNDARY KIT BOX
	SAFETY BARRIER
	TACTILE PAVERS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
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SL17	1749684.88	5946534.24	
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SL19	1749746.58	5946536.54	
SL20	1749780.25	5946521.05	
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SL22	1749842.90	5946548.71	
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SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

NEW CREE EDGE SQUARE T2M BOLED 525mm x 4000K SINGLE ARM ON VICPOLE ENLARGED BASE COLUMN

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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: ROWAN HALLAM

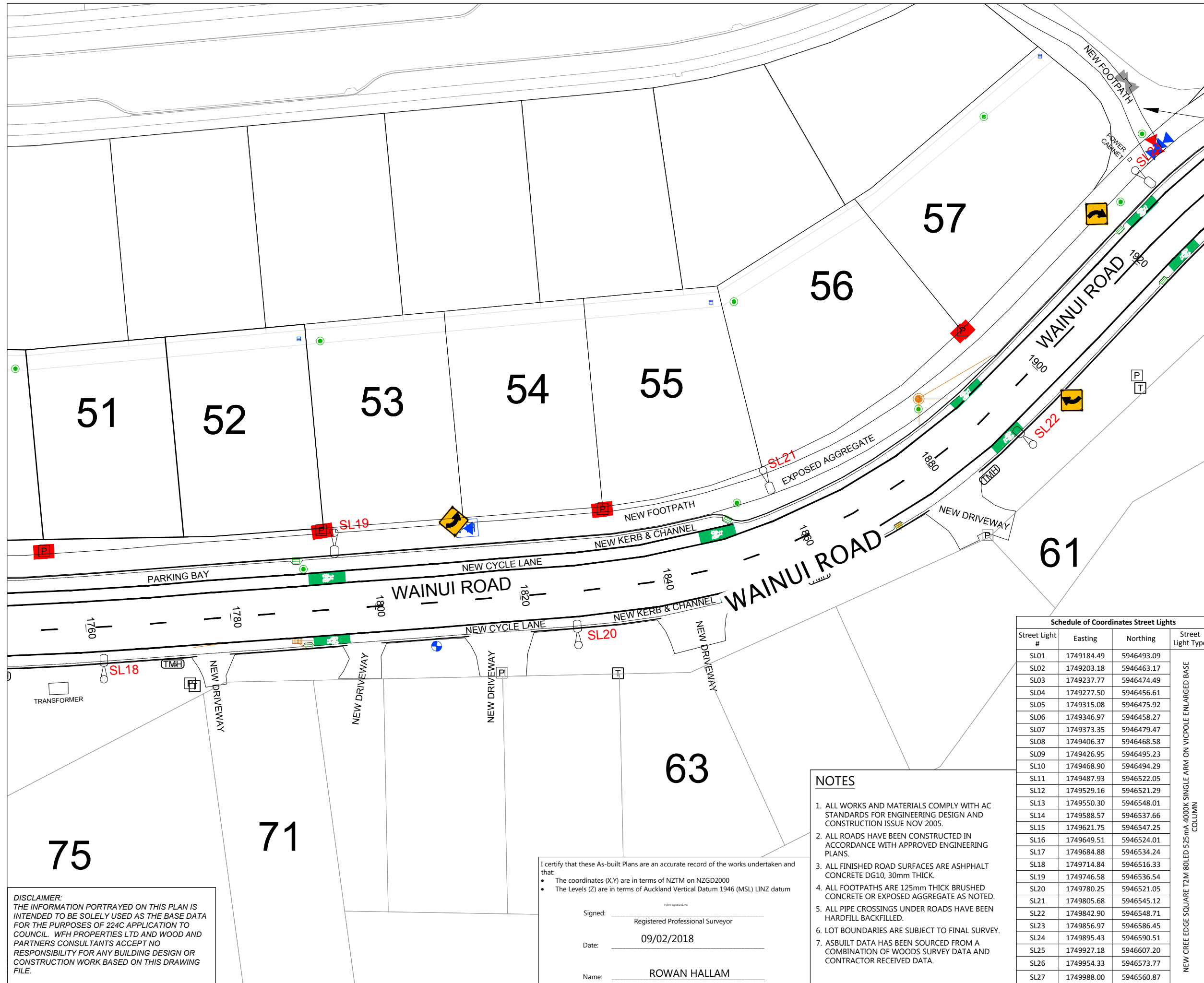
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SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

ROADING AS-BUILT  
SHEET 5 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-204-AB	



LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
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	TELECOMMUNICATIONS PLINTH
	SPEED SIGN, RG 1
	ARROW SIGN, PW 17
	POWER BOX
	BOUNDARY KIT BOX
	SAFETY BARRIER
	TACTILE PAVERS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
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SL14	1749588.57	5946537.66	
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SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

**NOTES**

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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: ROWAN HALLAM

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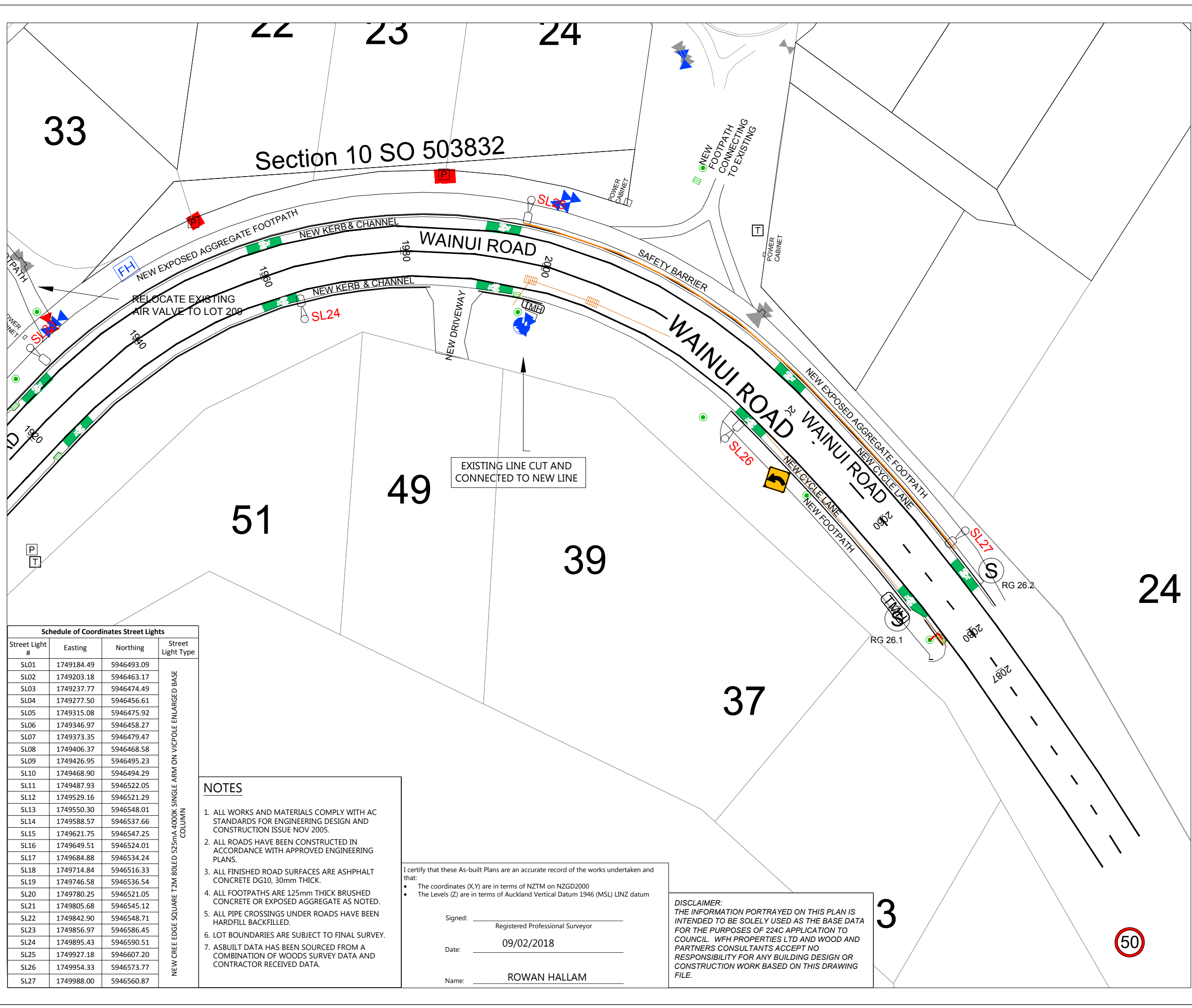
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
ROADING AS-BUILT  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-205-AB	





LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE
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	SPEED SIGN, RG 1
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	POWER BOX
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18
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SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

**ROADING AS-BUILT  
SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-207-AB	

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	NEW CREE SQUARE T2M BOILED 525mA 4000K SINGLE ARM ON VICPOLE ENLARGED BASE COLUMN
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
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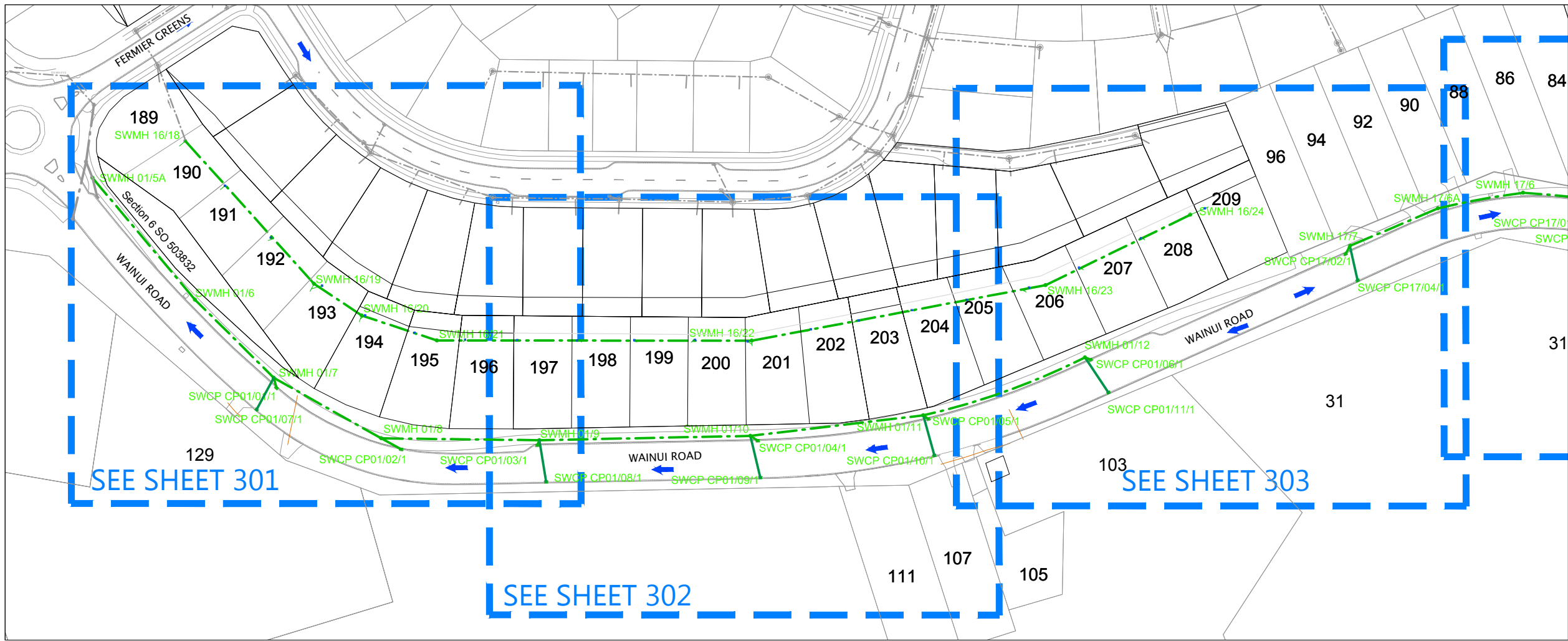
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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: ROWAN HALLAM

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**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRJ PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS
- ABANDONED STORMWATER ASSETS

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS.
  3. PIPE CROSSINGS ARE PE100 PN16 SDR11 POLYETHYLENE PIPES, CONSTRUCTED WITH 100mm THK (AT TOP OF PIPE) x 1.0m WIDE 30MPa CONCRETE CAPPING WITH 1 LAYER 665 MESH OVER CATCHPIT LEAD AND 1 LAYER ON SIDES (BETWEEN BACK OF KERBS). DIAMETER SHOWN ARE OUTSIDE DIAMETER. CONNECTIONS ARE AS PER WATERCARE DETAILS: DRAWING WW34.
  4. CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER REINFORCED CONCRETE PIPES ARE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
  5. ALL PIPE CROSSINGS UNDER ROADS, ACCESSWAYS AND LINE 16 HAVE BEEN HARDFILL BACKFILLED.
  6. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
  7. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mm $\phi$ .
  8. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  9. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

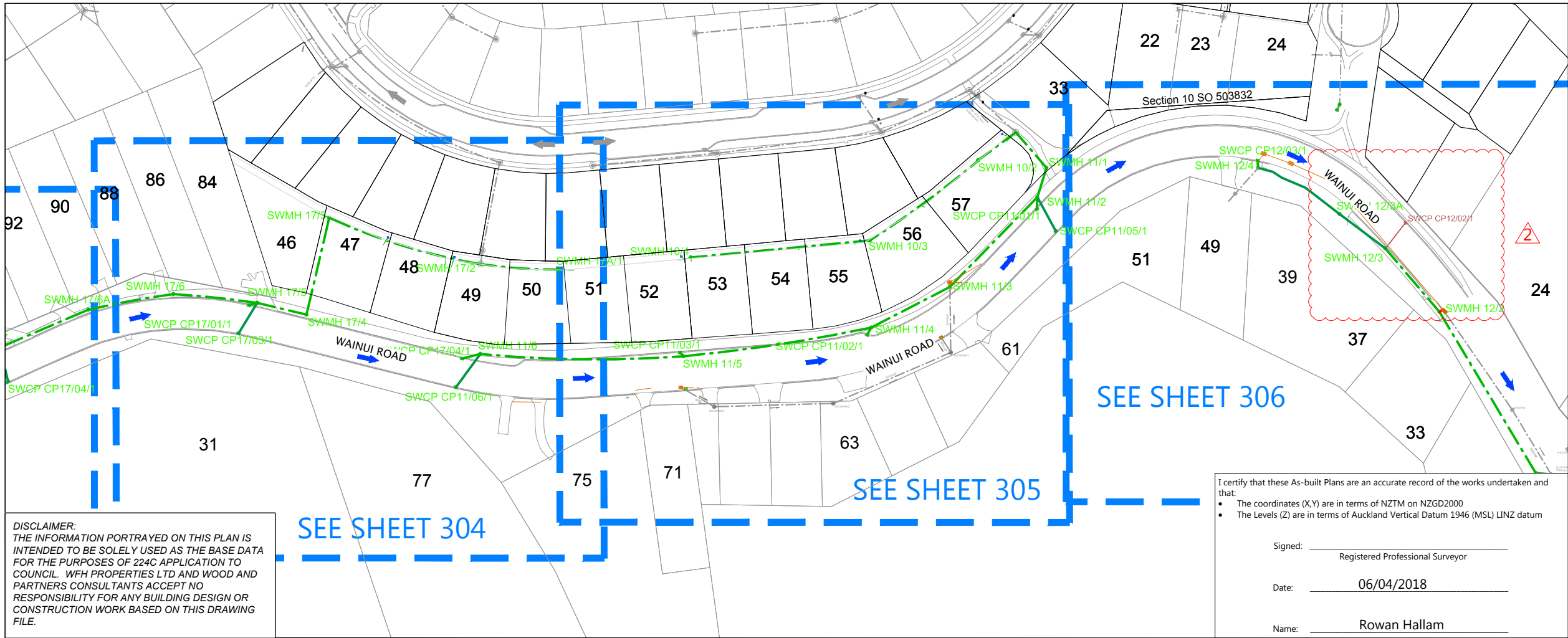
REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	ISSUED FOR INFORMATION	AP	06/04/18
3	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
STORMWATER AS-BUILT  
OVERALL-LAYOUT PLAN  
SHEET 1 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-300-AB	



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

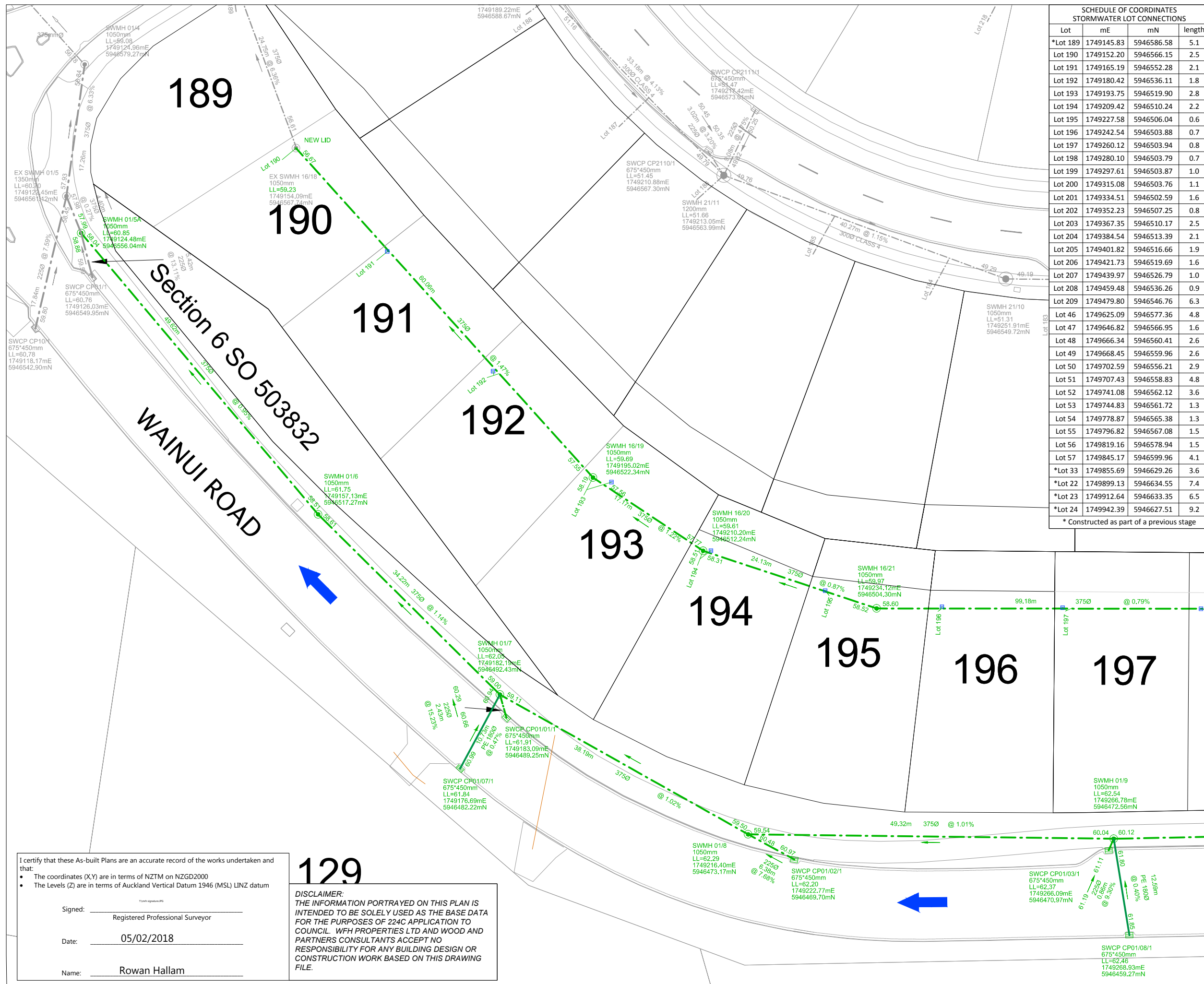
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_ Registered Professional Surveyor

Date: 06/04/2018

Name: Rowan Hallam





SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot	mE	mN	length
*Lot 189	1749145.83	5946586.58	5.1
Lot 190	1749152.20	5946566.15	2.5
Lot 191	1749165.19	5946552.28	2.1
Lot 192	1749180.42	5946536.11	1.8
Lot 193	1749193.75	5946519.90	2.8
Lot 194	1749209.42	5946510.24	2.2
Lot 195	1749227.58	5946506.04	0.6
Lot 196	1749242.54	5946503.88	0.7
Lot 197	1749260.12	5946503.94	0.8
Lot 198	1749280.10	5946503.79	0.7
Lot 199	1749297.61	5946503.87	1.0
Lot 200	1749315.08	5946503.76	1.1
Lot 201	1749334.51	5946502.59	1.6
Lot 202	1749352.23	5946507.25	0.8
Lot 203	1749367.35	5946510.17	2.5
Lot 204	1749384.54	5946513.39	2.1
Lot 205	1749401.82	5946516.66	1.9
Lot 206	1749421.73	5946519.69	1.6
Lot 207	1749439.97	5946526.79	1.0
Lot 208	1749459.48	5946536.26	0.9
Lot 209	1749479.80	5946546.76	6.3
Lot 46	1749625.09	5946577.36	4.8
Lot 47	1749646.82	5946566.95	1.6
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Lot 54	1749778.87	5946565.38	1.3
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Lot 56	1749819.16	5946578.94	1.5
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*Lot 23	1749912.64	5946633.35	6.5
*Lot 24	1749942.39	5946627.51	9.2

\* Constructed as part of a previous stage

**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRI PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS
- ABANDONED STORMWATER ASSETS

- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18
3 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**  
STORMWATER AS-BUILT  
SHEET 2 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-301-AB	

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

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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

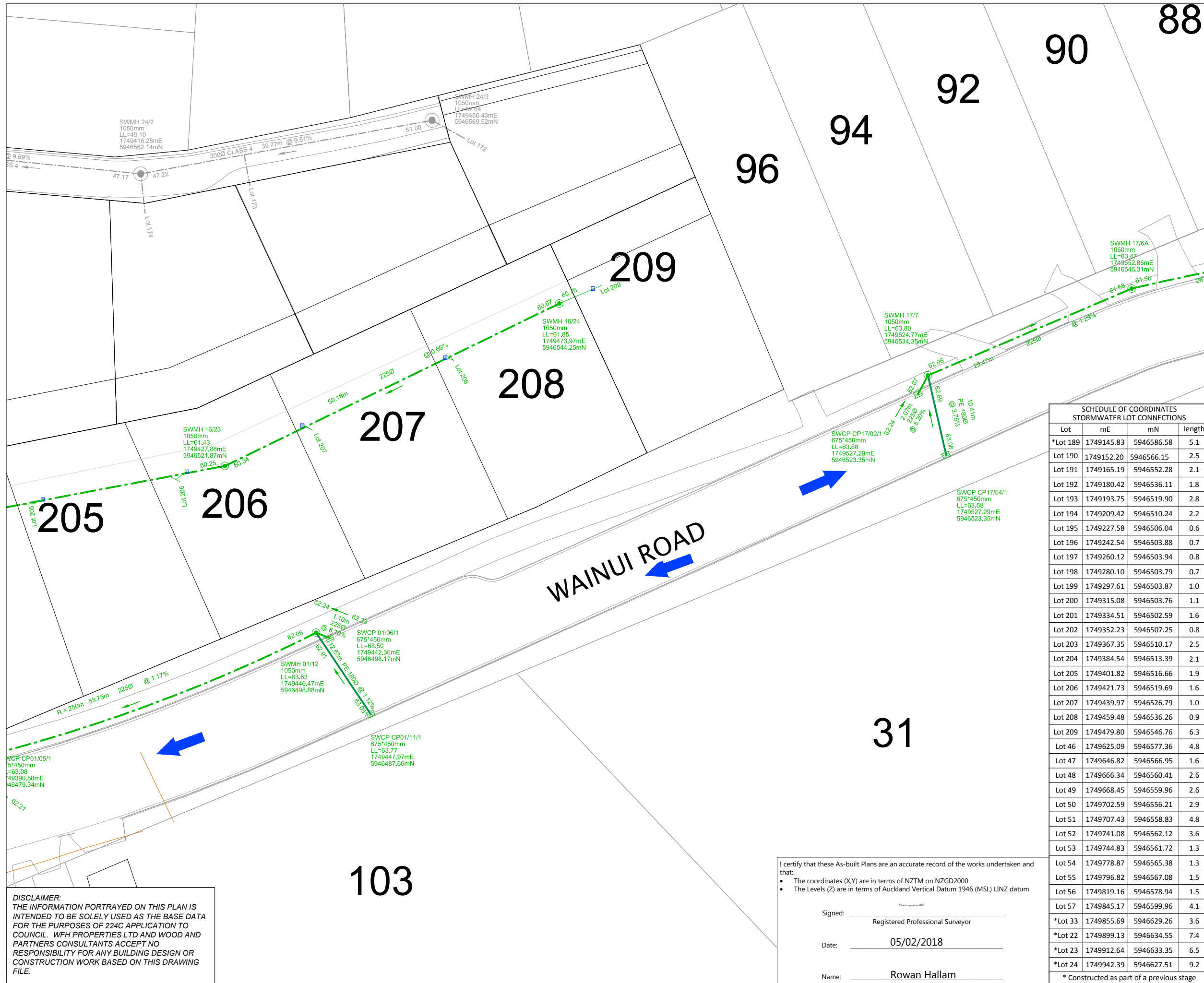
Name: Rowan Hallam

**129**

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**LEGEND**

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- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRI PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS
- ABANDONED STORMWATER ASSETS

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**SCHEDULE OF COORDINATES  
STORMWATER LOT CONNECTIONS**

Lot	mE	mN	length
*Lot 189	1749145.83	5946586.58	5.1
Lot 190	1749152.20	5946566.15	2.5
Lot 191	1749165.19	5946552.28	2.1
Lot 192	1749180.42	5946536.11	1.8
Lot 193	1749193.75	5946519.90	2.8
Lot 194	1749209.42	5946510.24	2.2
Lot 195	1749227.58	5946506.04	0.6
Lot 196	1749242.54	5946503.88	0.7
Lot 197	1749260.12	5946503.94	0.8
Lot 198	1749280.10	5946503.79	0.7
Lot 199	1749297.61	5946503.87	1.0
Lot 200	1749315.08	5946503.76	1.1
Lot 201	1749334.51	5946502.59	1.6
Lot 202	1749352.23	5946507.25	0.8
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*Lot 24	1749942.39	5946627.51	9.2

**REVISION DETAILS**

NO	ISSUED FOR INFORMATION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
3	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
STORMWATER AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-303-AB	

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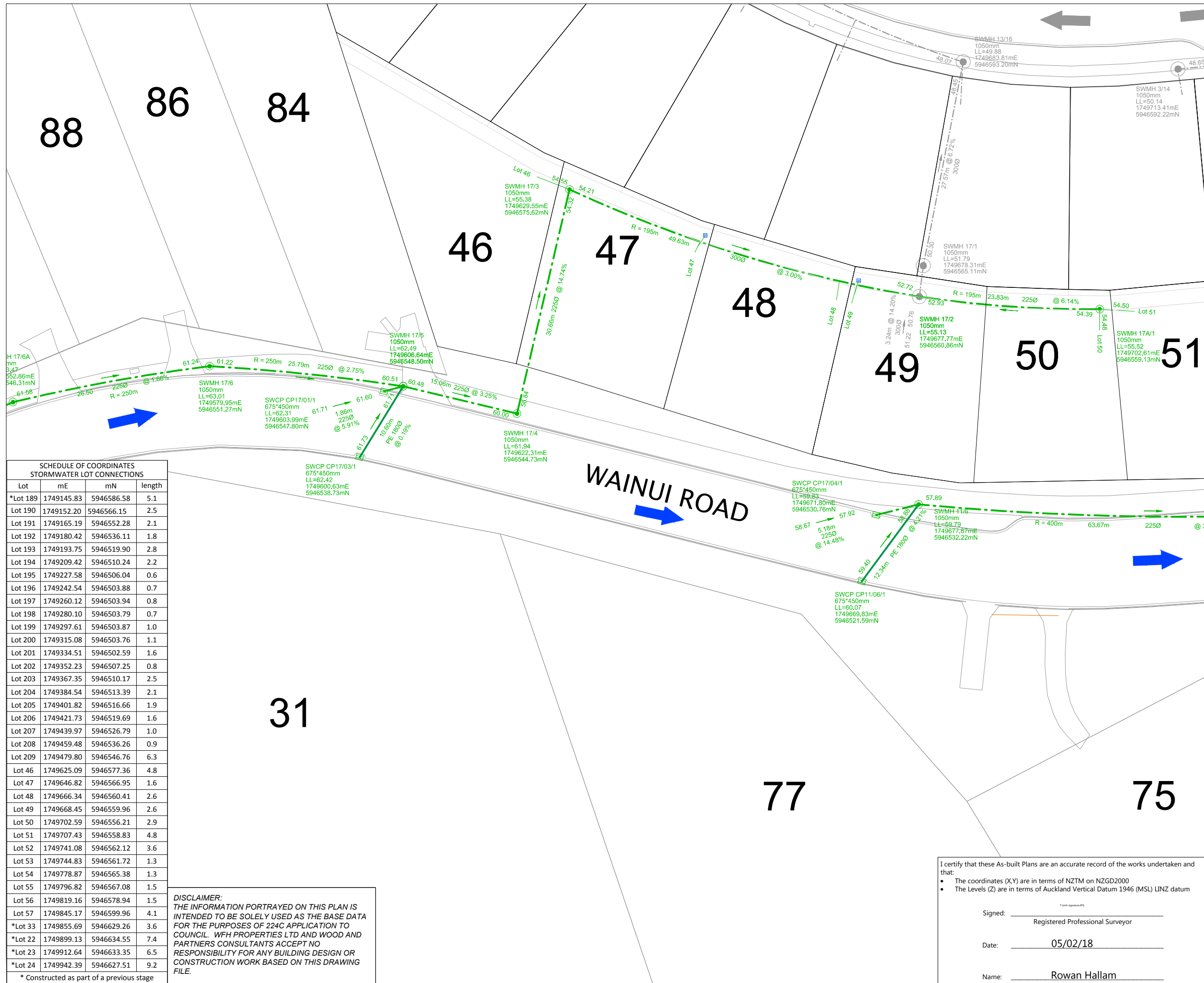
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

\* Constructed as part of a previous stage



**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRI PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS
- ABANDONED STORMWATER ASSETS

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**SCHEDULE OF COORDINATES  
STORMWATER LOT CONNECTIONS**

Lot	mE	mN	length
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Lot 195	1749227.58	5946506.04	0.6
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Lot 200	1749315.08	5946503.76	1.1
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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/18

Name: Rowan Hallam

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
3	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

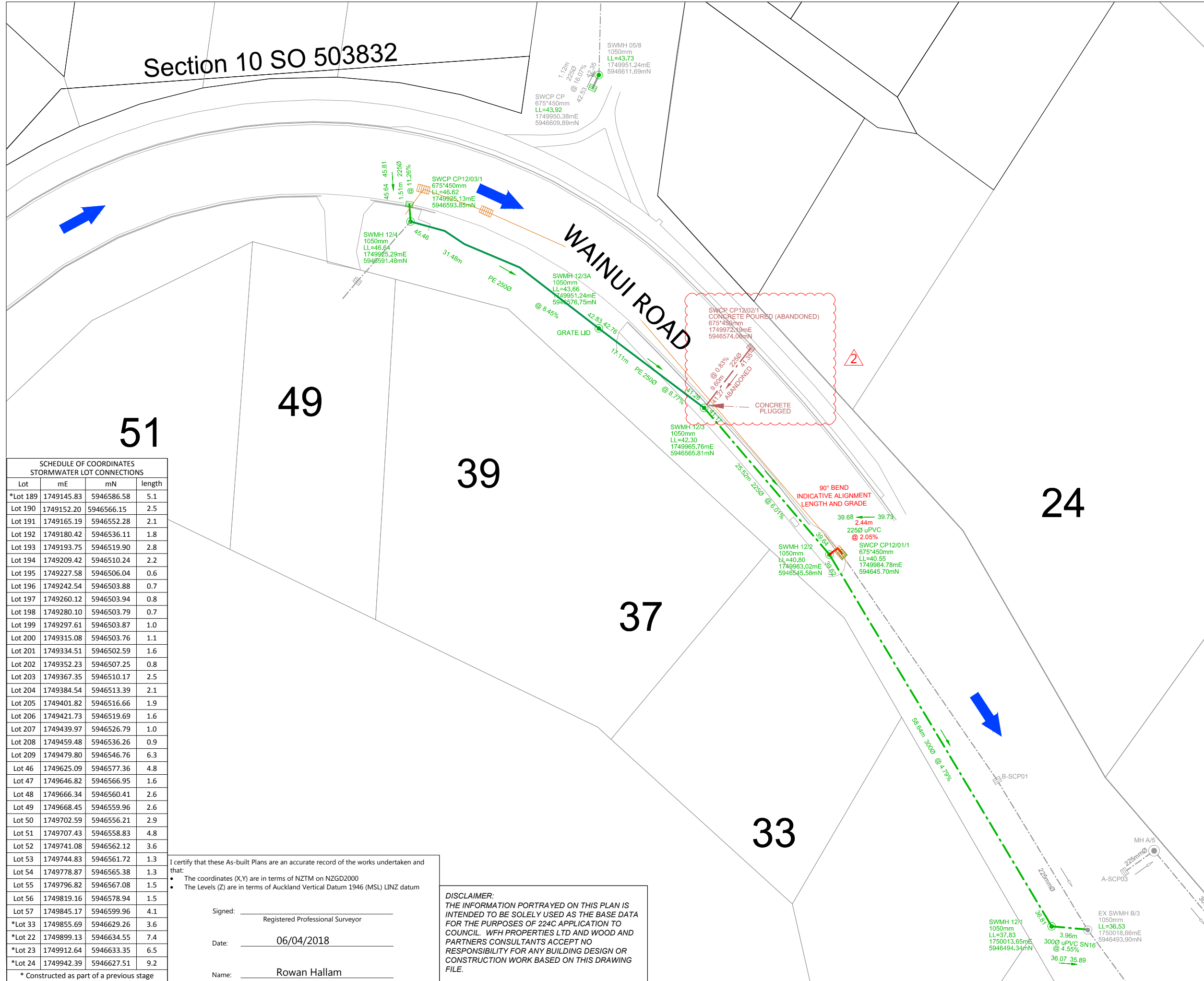
STORMWATER AS-BUILT  
SHEET 5 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-304-AB	





# Section 10 SO 503832



SCHEDULE OF COORDINATES  
STORMWATER LOT CONNECTIONS

Lot	mE	mN	length
*Lot 189	1749145.83	5946586.58	5.1
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Registered Professional Surveyor

Date: 06/04/2018

Name: Rowan Hallam

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**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
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  - ALL PIPE CROSSINGS UNDER ROADS, ACCESSWAYS AND LINE 16 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 100mm $\phi$ .
  - 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 INFORMATION	KH	05/02/18
2 ISSUED FOR INFORMATION	AP	06/04/18
3 BOUNDARY AMENDMENT	KR	7/05/18

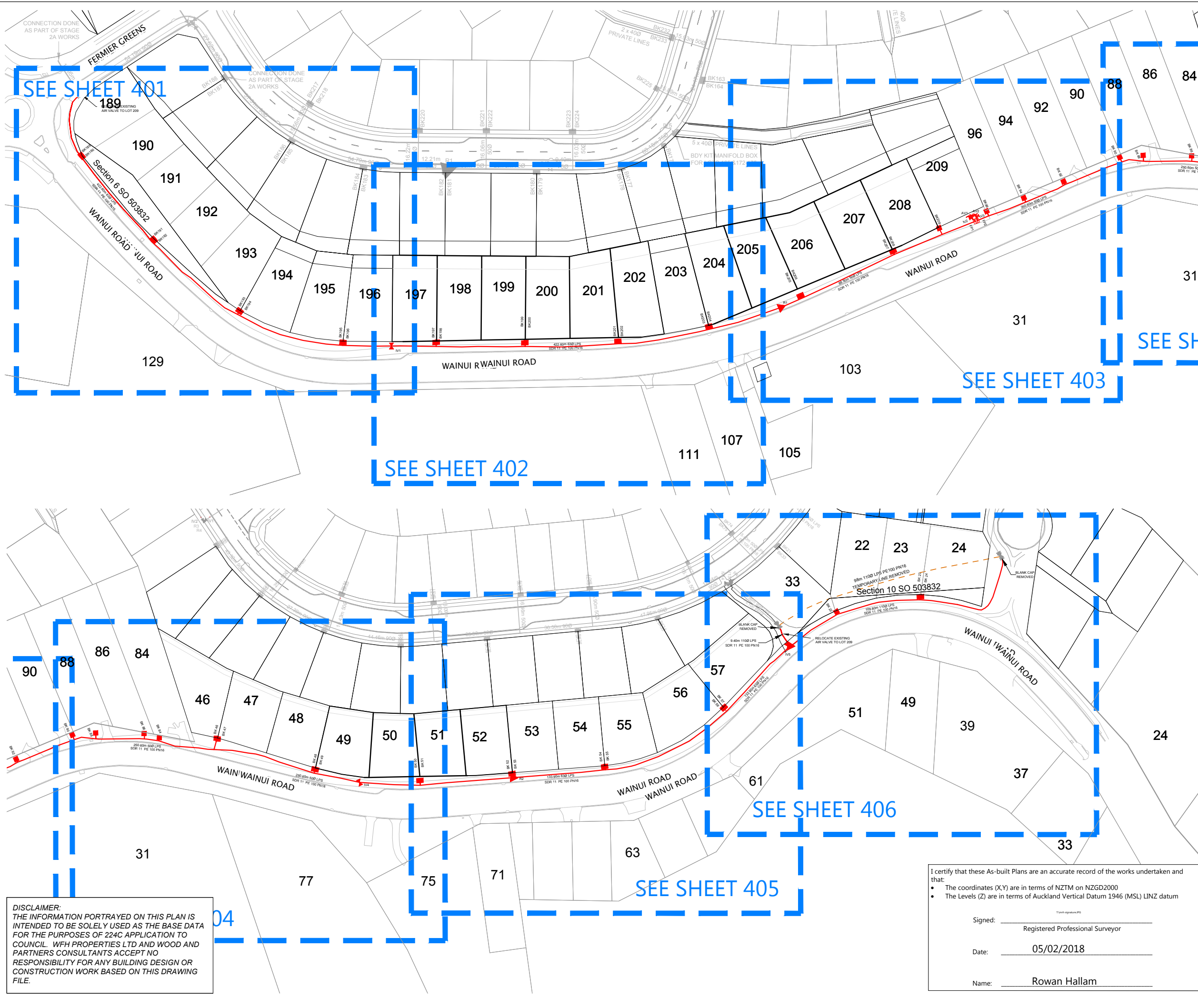
SURVEYED	WOODS	WOODS Ltd
DESIGNED	AP	LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023
DRAWN	KH	09 308 9229
CHECKED	KR	
APPROVED	RH	WOODS.CO.NZ



## MILLWATER WAINUI ROAD UPGRADE PART C - SUBSTITUTION PLANS STORMWATER AS-BUILT SHEET 7 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-306-AB	





**LEGEND**

BK60	BOUNDARY KIT
IV	ISOLATION VALVE
FP	FLUSHING POINT
AV	AIR VALVE
R	REDUCER
(Red line)	LOW PRESSURE SEWER
(Grey line)	EXISTING LOW PRESSURE SEWER

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  2. ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.
  3. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.
  4. ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
  5. PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
  6. LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETER
  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**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
WASTEWATER ASBUILT PLAN  
OVERALL LAYOUT  
SHEET 1 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-400-AB	

SEE SHEET 401

SEE SHEET 402

SEE SHEET 403

SEE SHEET 406

SEE SHEET 405

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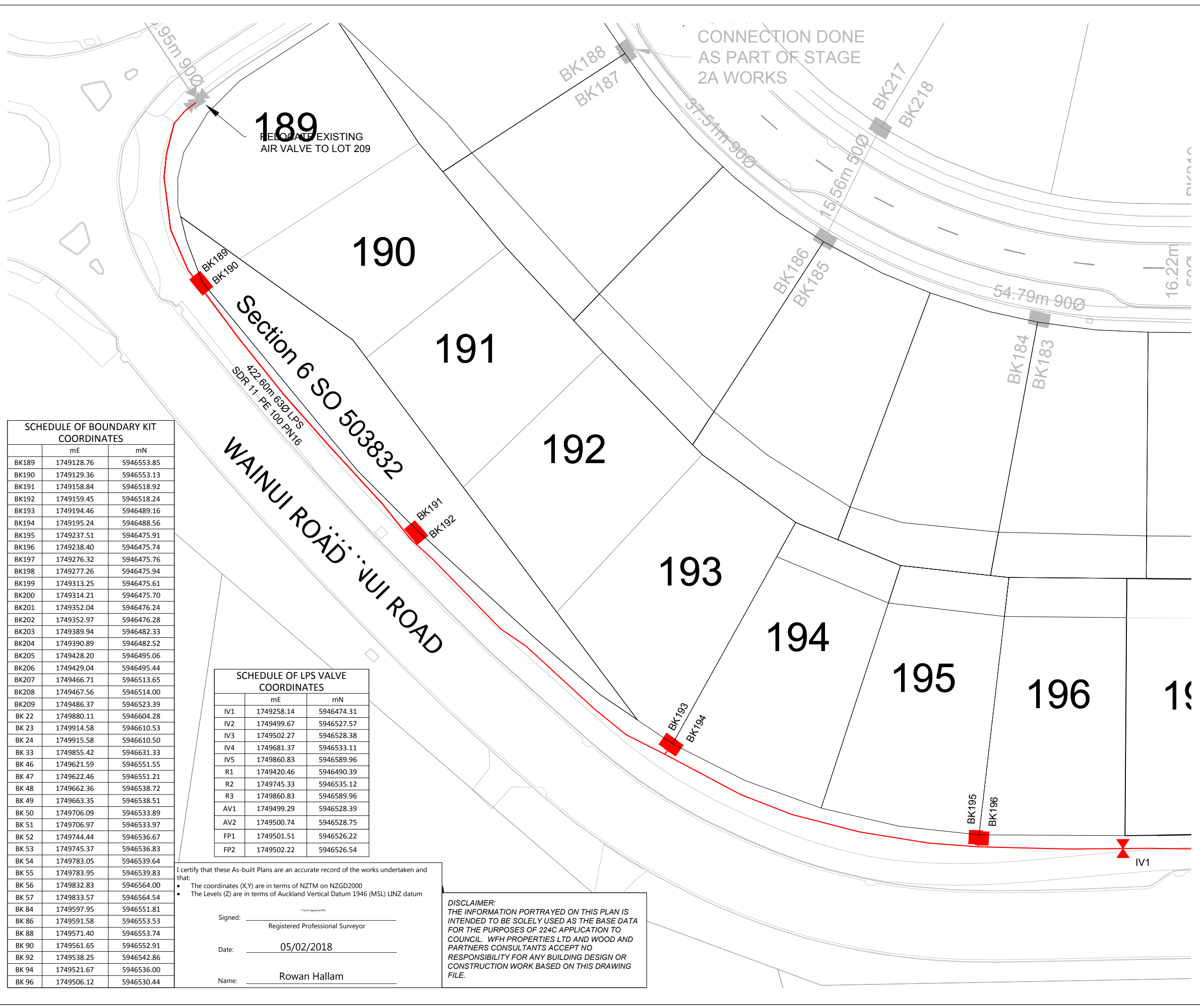
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 05/02/2018

Name: Rowan Hallam



LEGEND	
BK60	BOUNDARY KIT
IV	ISOLATION VALVE
FP	FLUSHING POINT
AV	AIR VALVE
R	REDUCER
(Red line)	LOW PRESSURE SEWER
(Grey line)	EXISTING LOW PRESSURE SEWER

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  - ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
  - PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
  - LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETER
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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SCHEDULE OF BOUNDARY KIT COORDINATES		
	mE	mN
BK189	1749128.76	5946553.85
BK190	1749129.36	5946553.13
BK191	1749158.84	5946518.92
BK192	1749159.45	5946518.24
BK193	1749194.46	5946489.16
BK194	1749195.24	5946488.56
BK195	1749237.51	5946475.91
BK196	1749238.40	5946475.74
BK197	1749276.32	5946475.76
BK198	1749277.26	5946475.94
BK199	1749313.25	5946475.61
BK200	1749314.21	5946475.70
BK201	1749352.04	5946476.24
BK202	1749352.97	5946476.28
BK203	1749389.94	5946482.33
BK204	1749390.89	5946482.52
BK205	1749428.20	5946495.06
BK206	1749429.04	5946495.44
BK207	1749466.71	5946513.65
BK208	1749467.56	5946514.00
BK209	1749486.37	5946523.39
BK 22	1749880.11	5946604.28
BK 23	1749914.58	5946610.53
BK 24	1749915.58	5946610.50
BK 33	1749855.42	5946631.33
BK 46	1749621.59	5946551.55
BK 47	1749622.46	5946551.21
BK 48	1749662.36	5946538.72
BK 49	1749663.35	5946538.51
BK 50	1749706.09	5946533.89
BK 51	1749706.97	5946533.97
BK 52	1749744.44	5946536.67
BK 53	1749745.37	5946536.83
BK 54	1749783.05	5946539.64
BK 55	1749783.95	5946539.83
BK 56	1749832.83	5946564.00
BK 57	1749833.57	5946564.54
BK 84	1749597.95	5946551.81
BK 86	1749591.58	5946553.53
BK 88	1749571.40	5946553.74
BK 90	1749561.65	5946552.91
BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

SCHEDULE OF LPS VALVE COORDINATES		
	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

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: 05/02/2018

Name: Rowan Hallam

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

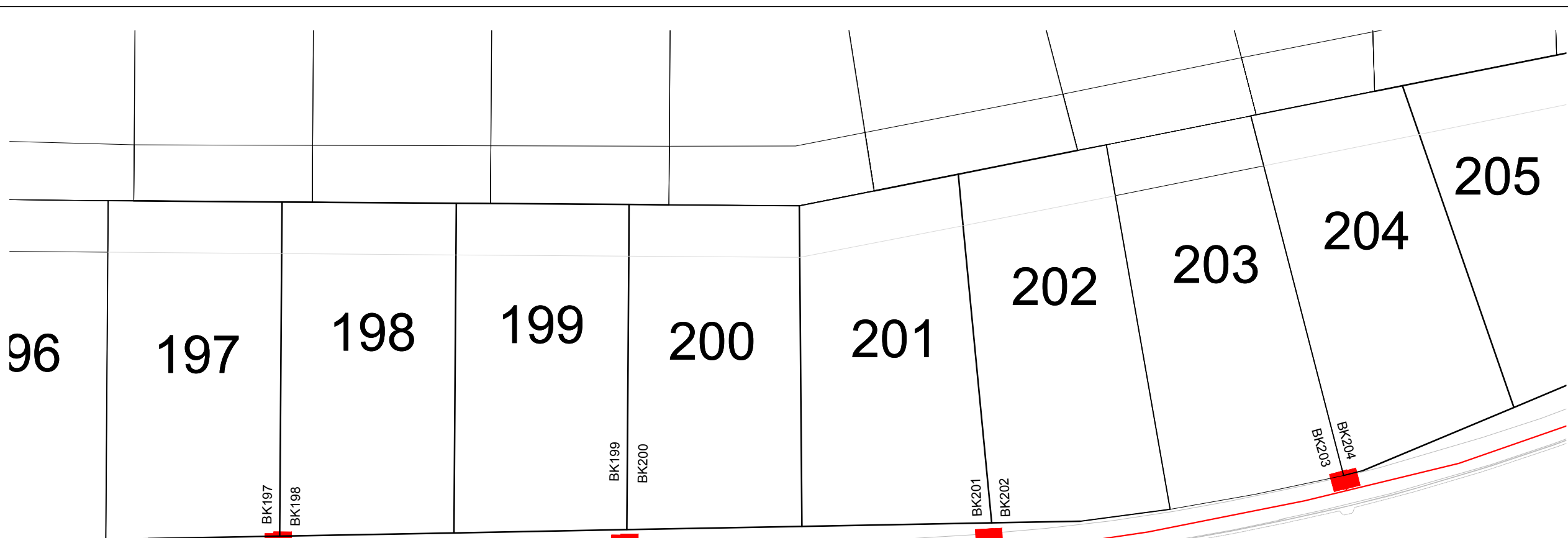
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

WASTEWATER ASBUILT PLAN  
SHEET 2 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-401-AB	





**LEGEND**

- BK60 BOUNDARY KIT
- ✕ IV ISOLATION VALVE
- FP FLUSHING POINT
- ⊙ AV AIR VALVE
- ▶ R REDUCER
- LOW PRESSURE SEWER
- EXISTING LOW PRESSURE SEWER

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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  4. ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
  5. PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
  6. LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETER
  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.

WAINUI R WAINUI ROAD

422.60m 63Ø LPS  
SDR 11 PE 100 PN16

**SCHEDULE OF BOUNDARY KIT COORDINATES**

	mE	mN
BK189	1749128.76	5946553.85
BK190	1749129.36	5946553.13
BK191	1749158.84	5946518.92
BK192	1749159.45	5946518.24
BK193	1749194.46	5946489.16
BK194	1749195.24	5946488.56
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BK 88	1749571.40	5946553.74
BK 90	1749561.65	5946552.91
BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

111

**SCHEDULE OF LPS VALVE COORDINATES**

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
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AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

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**REVISION DETAILS**

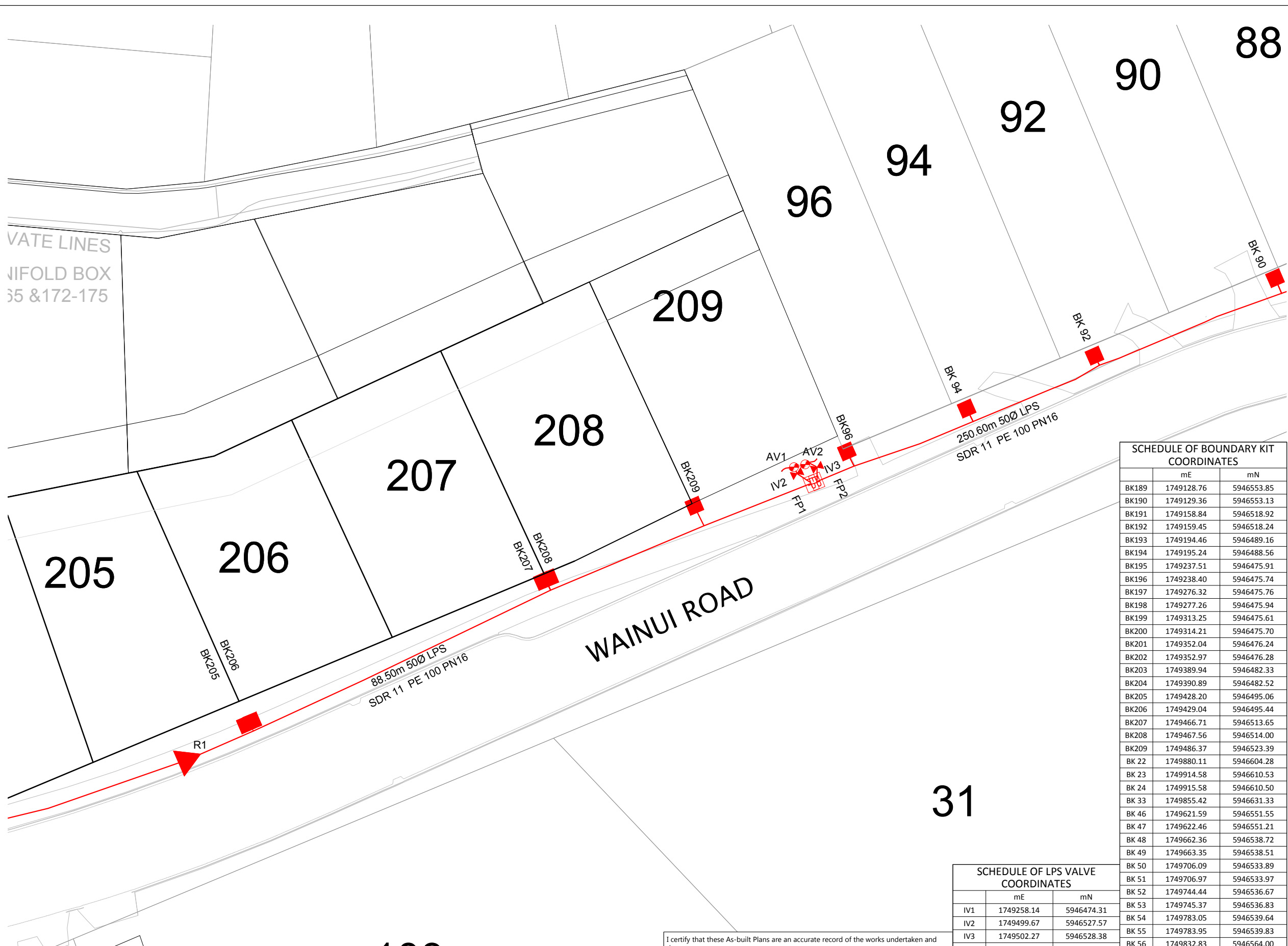
NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER WAINUI ROAD UPGRADE PART C - SUBSTITUTION PLANS**  
WASTEWATER ASBUILT PLAN SHEET 3 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-402-AB	



**LEGEND**

- BK60 ■ BOUNDARY KIT
- IV ■ ISOLATION VALVE
- FP ■ FLUSHING POINT
- AV ■ AIR VALVE
- R ■ REDUCER
- LOW PRESSURE SEWER
- EXISTING LOW PRESSURE SEWER

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  2. ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.
  3. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.
  4. ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
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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.

**SCHEDULE OF BOUNDARY KIT COORDINATES**

	mE	mN
BK189	1749128.76	5946553.85
BK190	1749129.36	5946553.13
BK191	1749158.84	5946518.92
BK192	1749159.45	5946518.24
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BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

**SCHEDULE OF LPS VALVE COORDINATES**

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
WASTEWATER ASBUILT PLAN  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-403-AB	

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

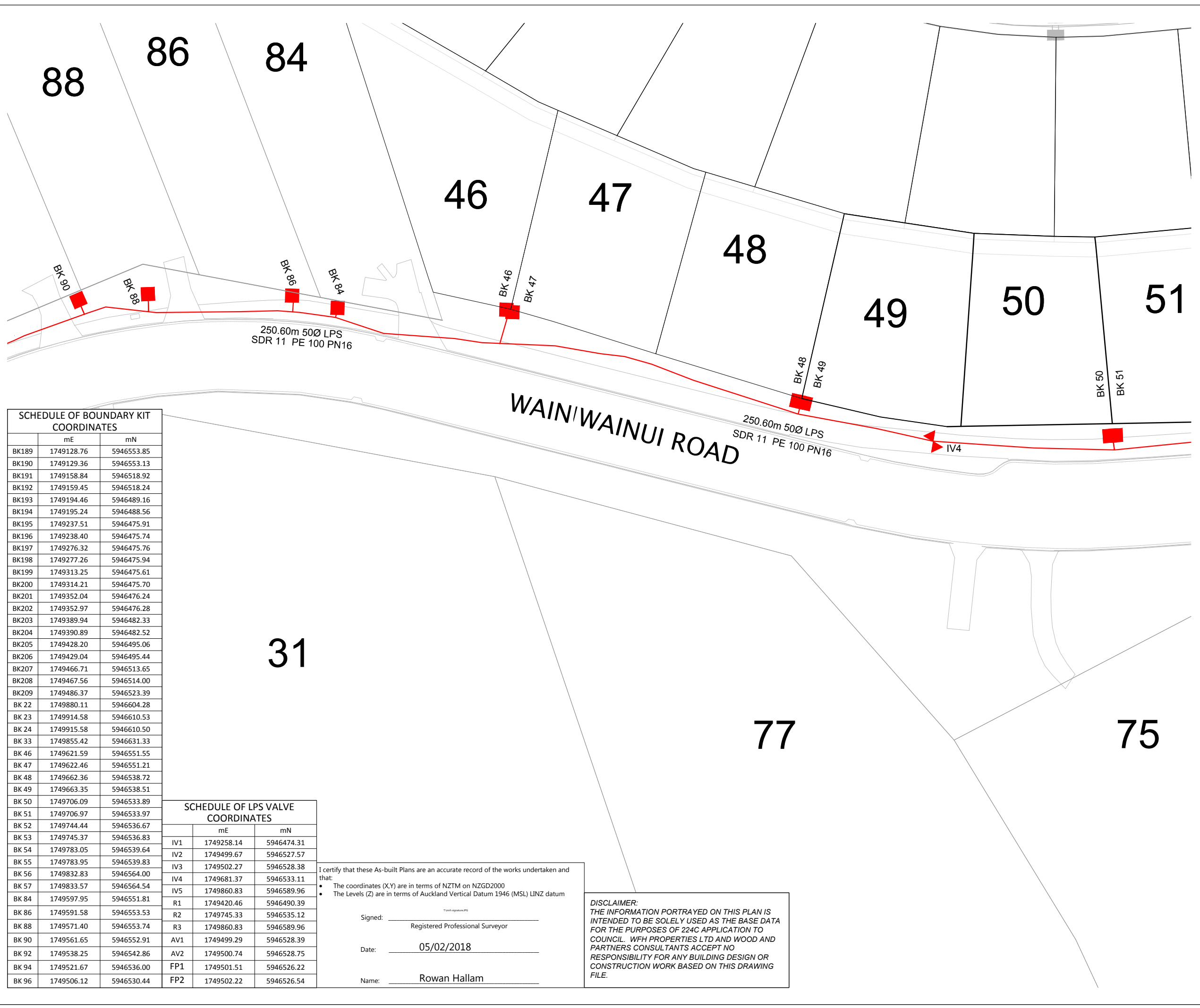
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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam





LEGEND	
BK60 ■	BOUNDARY KIT
IV ◀▶	ISOLATION VALVE
FP □	FLUSHING POINT
AV ◉	AIR VALVE
R ▶	REDUCER
— (red)	LOW PRESSURE SEWER
— (grey)	EXISTING LOW PRESSURE SEWER

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**SCHEDULE OF BOUNDARY KIT COORDINATES**

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BK208	1749467.56	5946514.00
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**SCHEDULE OF LPS VALVE COORDINATES**

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
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AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

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: 05/02/2018

Name: Rowan Hallam

**DISCLAIMER:**  
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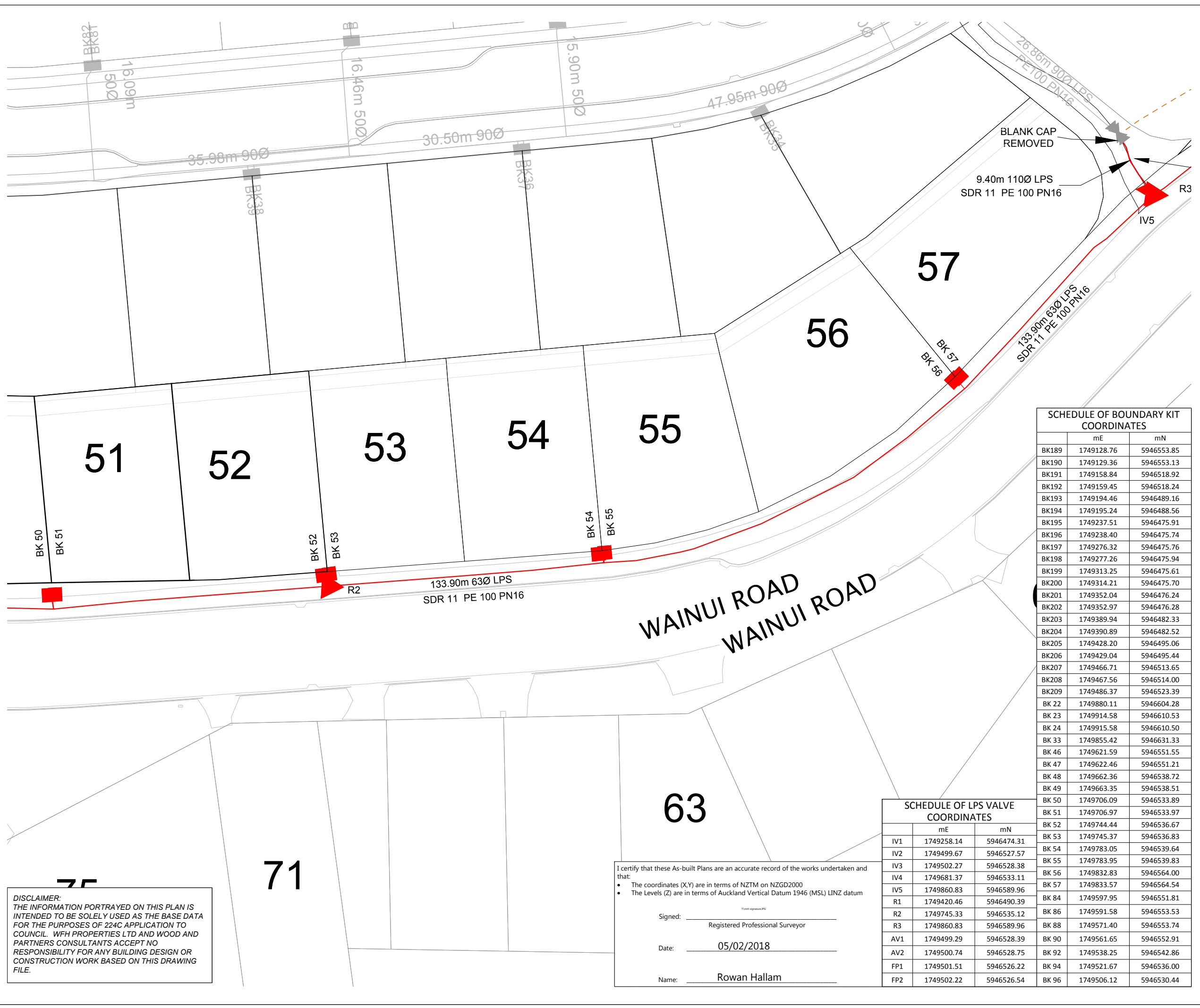
REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

**WASTEWATER ASBUILT PLAN  
SHEET 5 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-404-AB	



**LEGEND**

- BK60 BOUNDARY KIT
- ✕ IV ISOLATION VALVE
- FP FLUSHING POINT
- ⊙ AV AIR VALVE
- ▶ R REDUCER
- LOW PRESSURE SEWER
- EXISTING LOW PRESSURE SEWER

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  2. ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.
  3. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.
  4. ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
  5. PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
  6. LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETER
  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.

**SCHEDULE OF BOUNDARY KIT COORDINATES**

	mE	mN
BK189	1749128.76	5946553.85
BK190	1749129.36	5946553.13
BK191	1749158.84	5946518.92
BK192	1749159.45	5946518.24
BK193	1749194.46	5946489.16
BK194	1749195.24	5946488.56
BK195	1749237.51	5946475.91
BK196	1749238.40	5946475.74
BK197	1749276.32	5946475.76
BK198	1749277.26	5946475.94
BK199	1749313.25	5946475.61
BK200	1749314.21	5946475.70
BK201	1749352.04	5946476.24
BK202	1749352.97	5946476.28
BK203	1749389.94	5946482.33
BK204	1749390.89	5946482.52
BK205	1749428.20	5946495.06
BK206	1749429.04	5946495.44
BK207	1749466.71	5946513.65
BK208	1749467.56	5946514.00
BK209	1749486.37	5946523.39
BK 22	1749880.11	5946604.28
BK 23	1749914.58	5946610.53
BK 24	1749915.58	5946610.50
BK 33	1749855.42	5946631.33
BK 46	1749621.59	5946551.55
BK 47	1749622.46	5946551.21
BK 48	1749662.36	5946538.72
BK 49	1749663.35	5946538.51
BK 50	1749706.09	5946533.89
BK 51	1749706.97	5946533.97
BK 52	1749744.44	5946536.67
BK 53	1749745.37	5946536.83
BK 54	1749783.05	5946539.64
BK 55	1749783.95	5946539.83
BK 56	1749832.83	5946564.00
BK 57	1749833.57	5946564.54
BK 84	1749597.95	5946551.81
BK 86	1749591.58	5946553.53
BK 88	1749571.40	5946553.74
BK 90	1749561.65	5946552.91
BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

**SCHEDULE OF LPS VALVE COORDINATES**

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
WASTEWATER ASBUILT PLAN  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-405-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

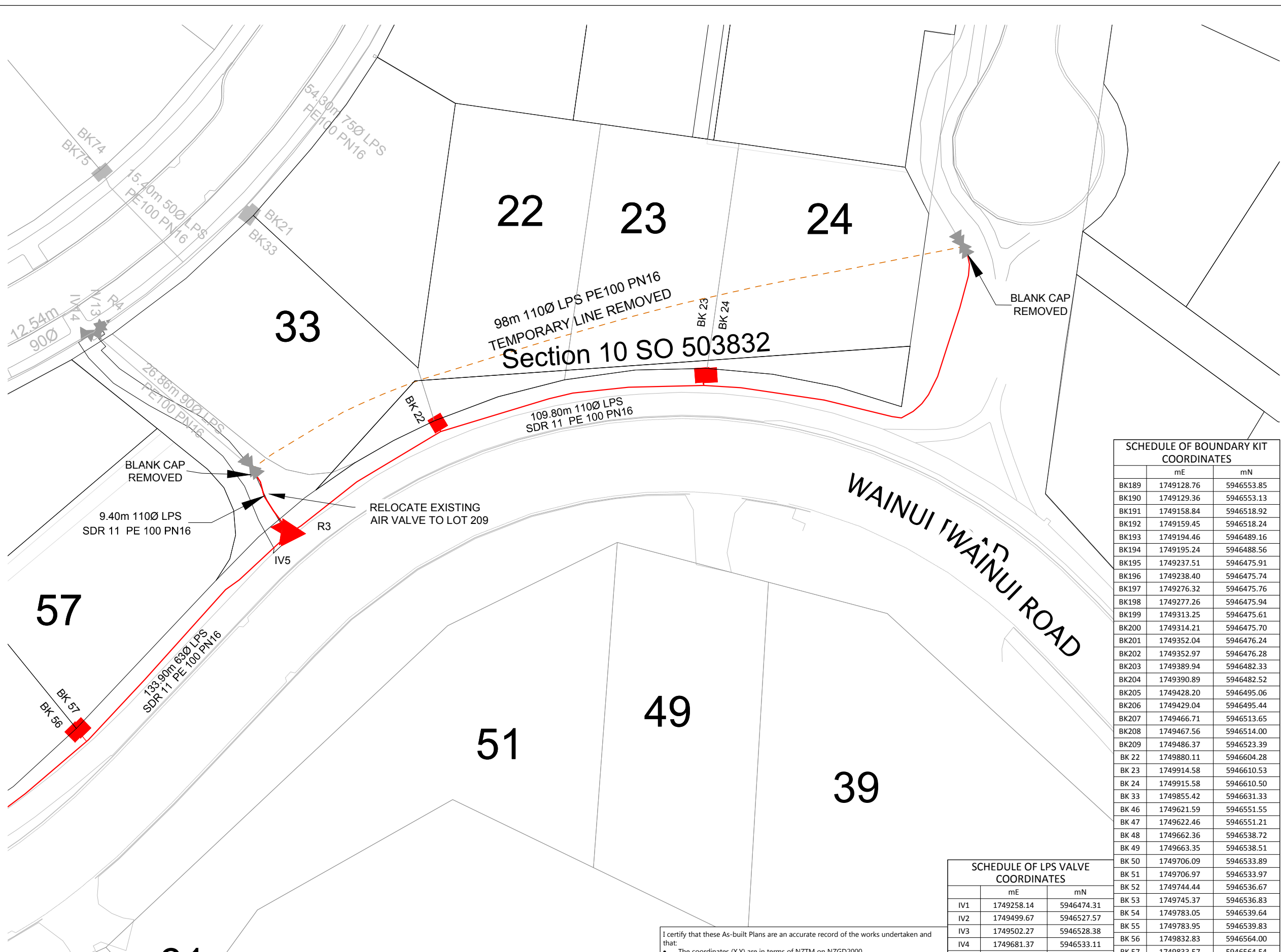
Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

**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 LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.





**LEGEND**

- BK60 BOUNDARY KIT
- ✂ IV ISOLATION VALVE
- FP FLUSHING POINT
- ⊙ AV AIR VALVE
- ▶ R REDUCER
- LOW PRESSURE SEWER
- EXISTING LOW PRESSURE SEWER

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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BK209	1749486.37	5946523.39
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**SCHEDULE OF LPS VALVE COORDINATES**

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IV4	1749681.37	5946533.11
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R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
WASTEWATER ASBUILT PLAN  
SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-406-AB	

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

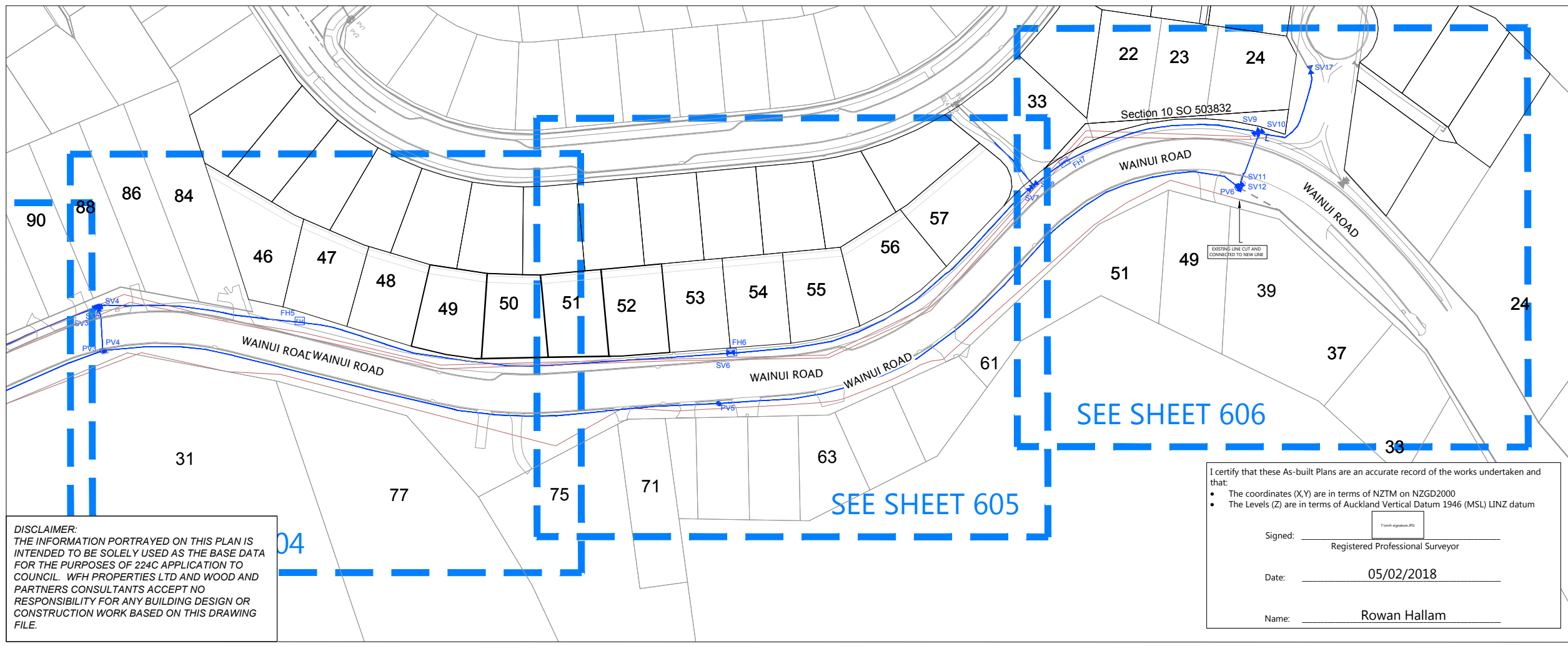
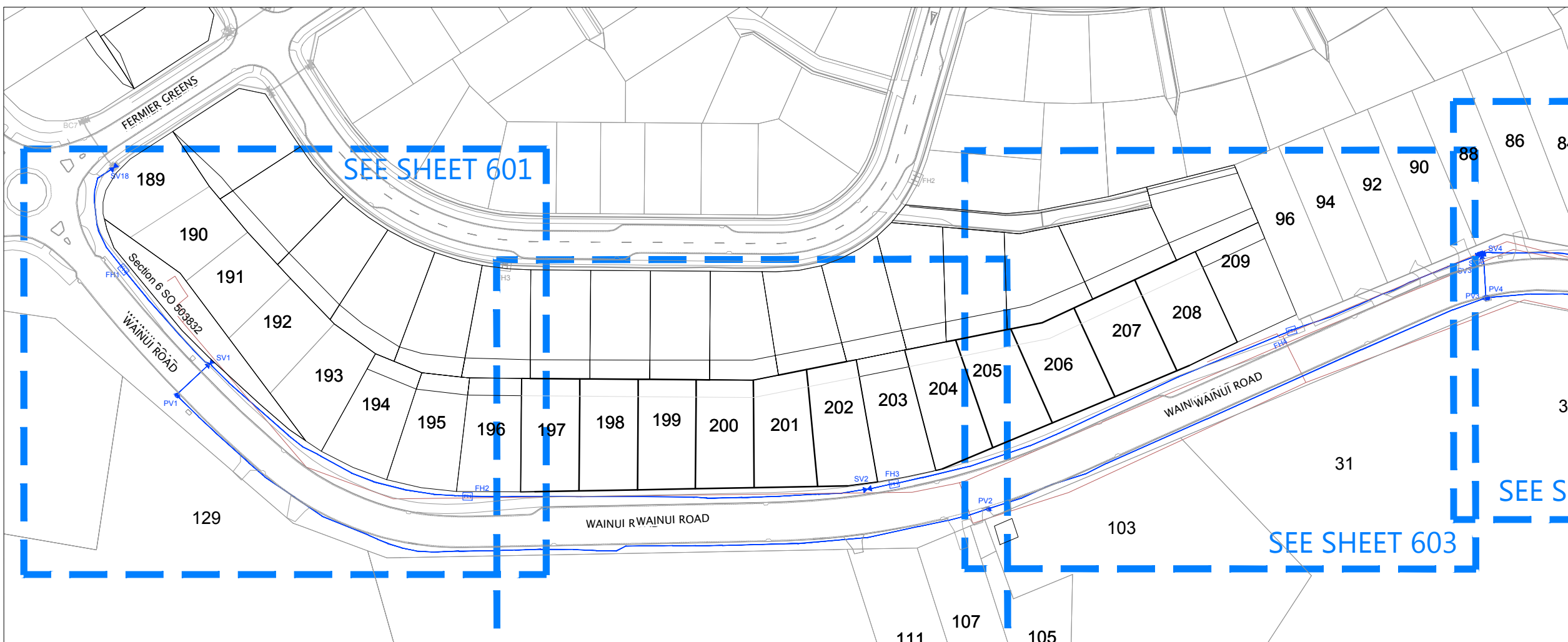
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

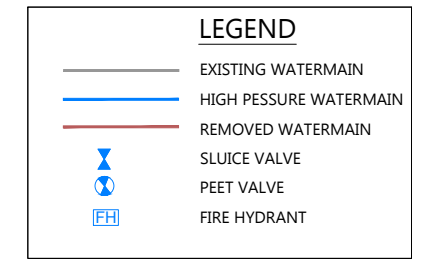
Date: 05/02/2018

Name: Rowan Hallam

**DISCLAIMER:**  
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- 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 BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
  4. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
  5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
WATERMAIN AS-BUILT  
OVERALL LAYOUT  
SHEET 1 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-600-AB	

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

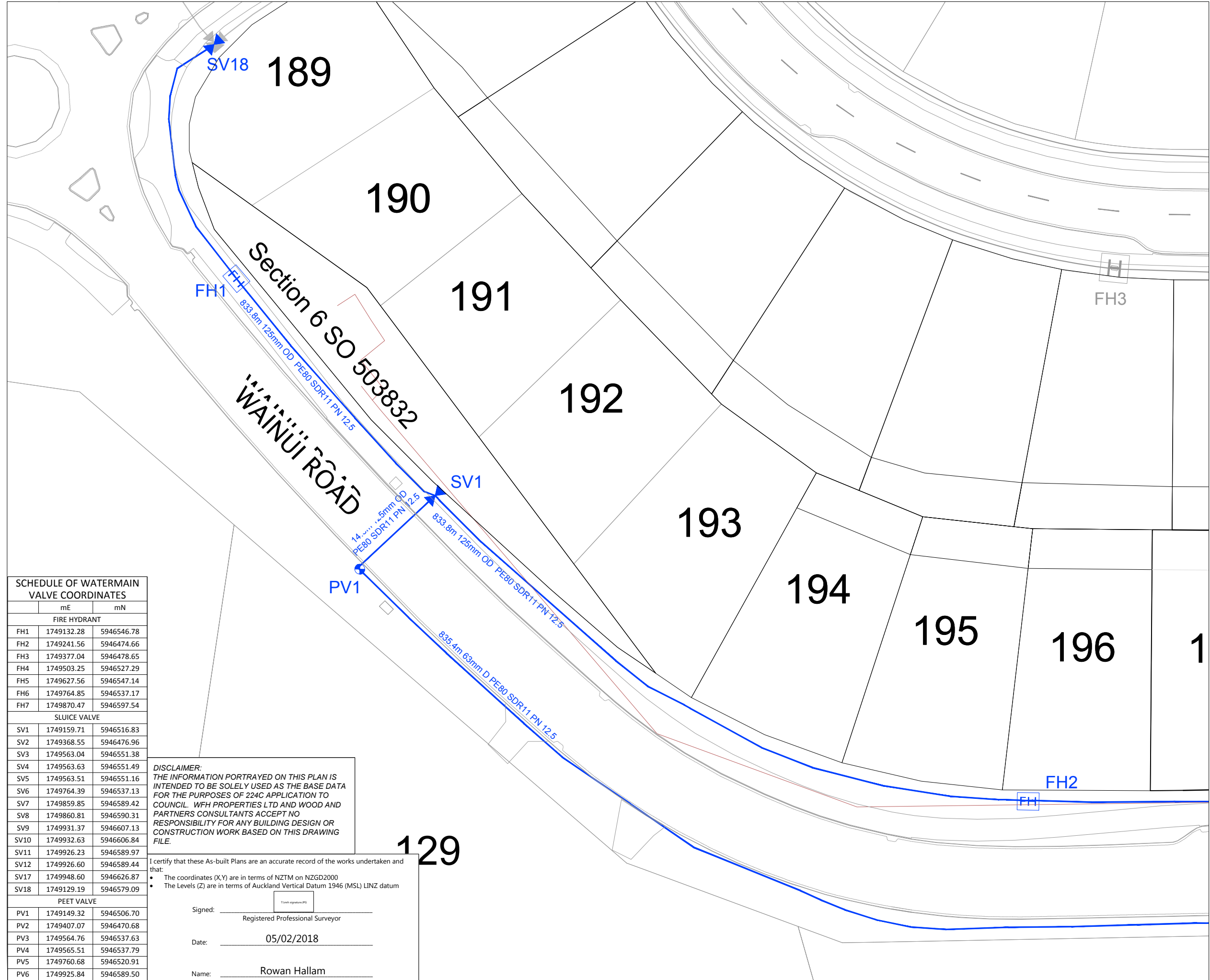
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam





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**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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

Signed: Registered Professional Surveyor  
 Date: 05/02/2018  
 Name: Rowan Hallam

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER WAINUI ROAD UPGRADE PART C - SUBSTITUTION PLANS**  
 WATERMAIN AS-BUILT SHEET 2 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-601-AB	



**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

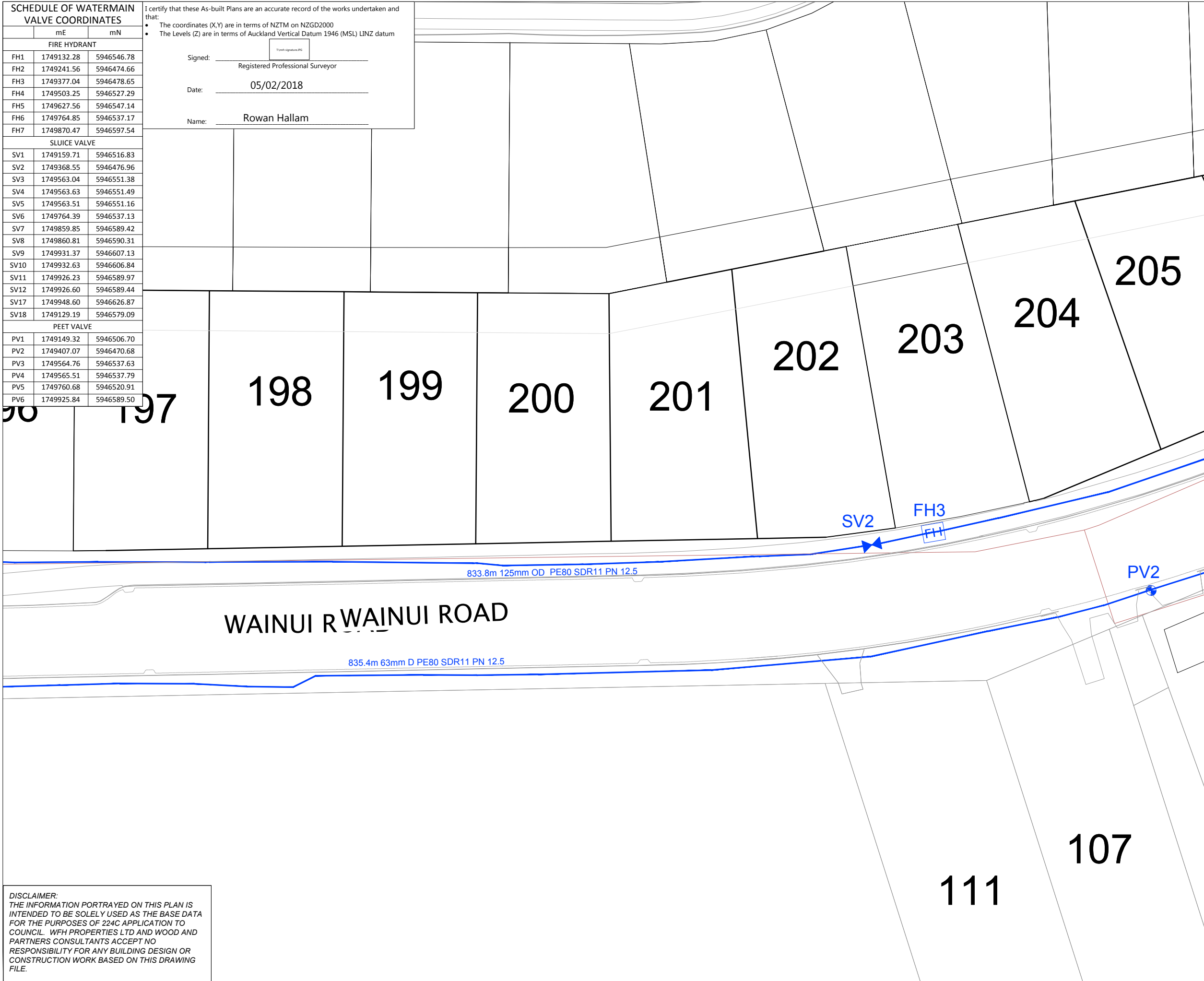
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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam



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

**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18
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SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

**WATERMAIN AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-602-AB	

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**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18
2 BOUNDARY AMENDMENT	KR	7/05/18

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DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS**

**WATERMAIN AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-603-AB	

**SCHEDULE OF WATERMAIN  
VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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

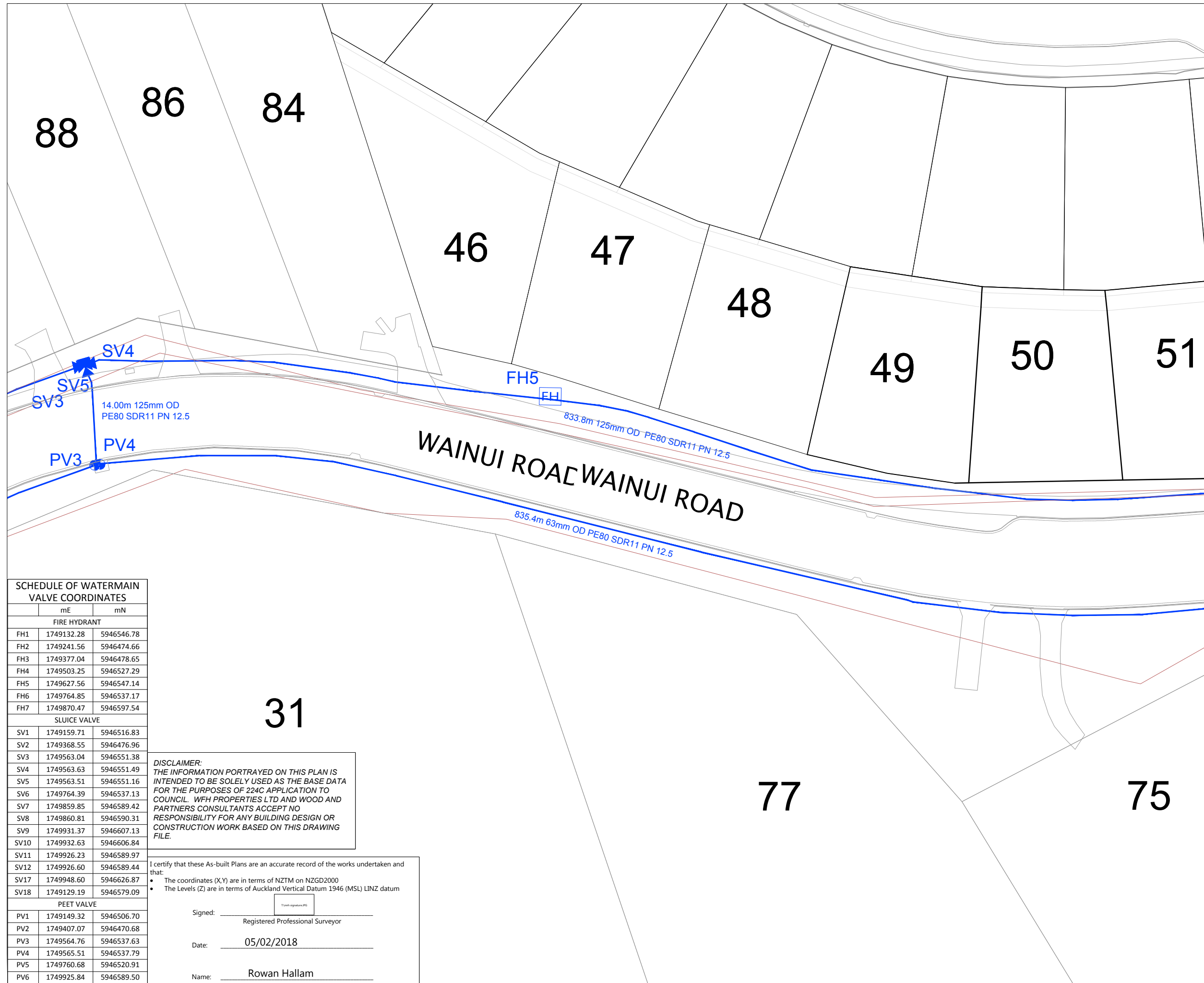
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

**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 LTD AND WOOD AND PARTNERS CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.



- 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 BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
  4. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
  5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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

Signed: Registered Professional Surveyor  
 Date: 05/02/2018  
 Name: Rowan Hallam

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

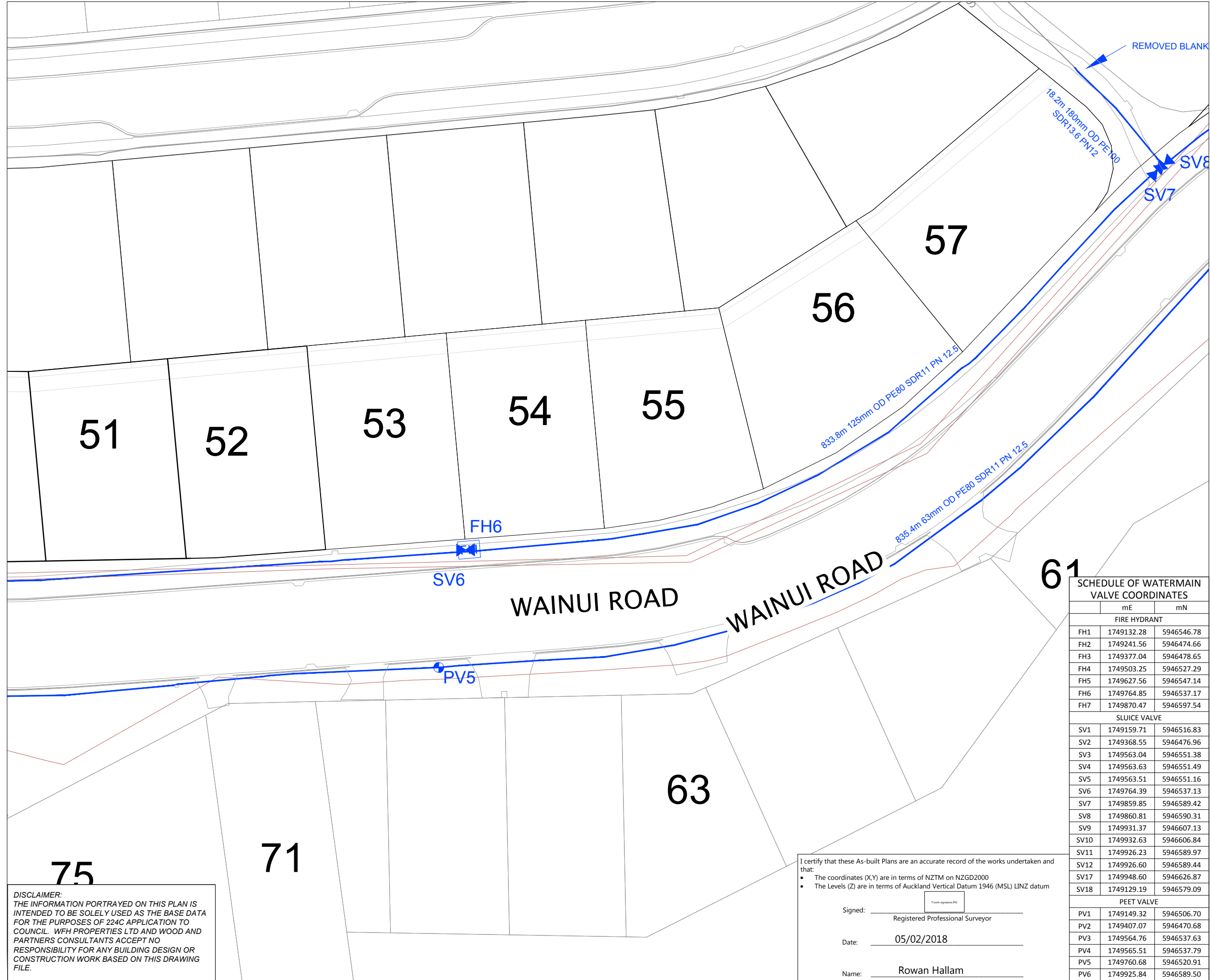
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**WFH** PROPERTIES

**MILLWATER WAINUI ROAD UPGRADE PART C - SUBSTITUTION PLANS**  
 WATERMAIN AS-BUILT SHEET 5 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-604-AB	





- 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 BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
  4. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
  5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
WATERMAIN AS-BUILT  
SHEET 6 OF 7**

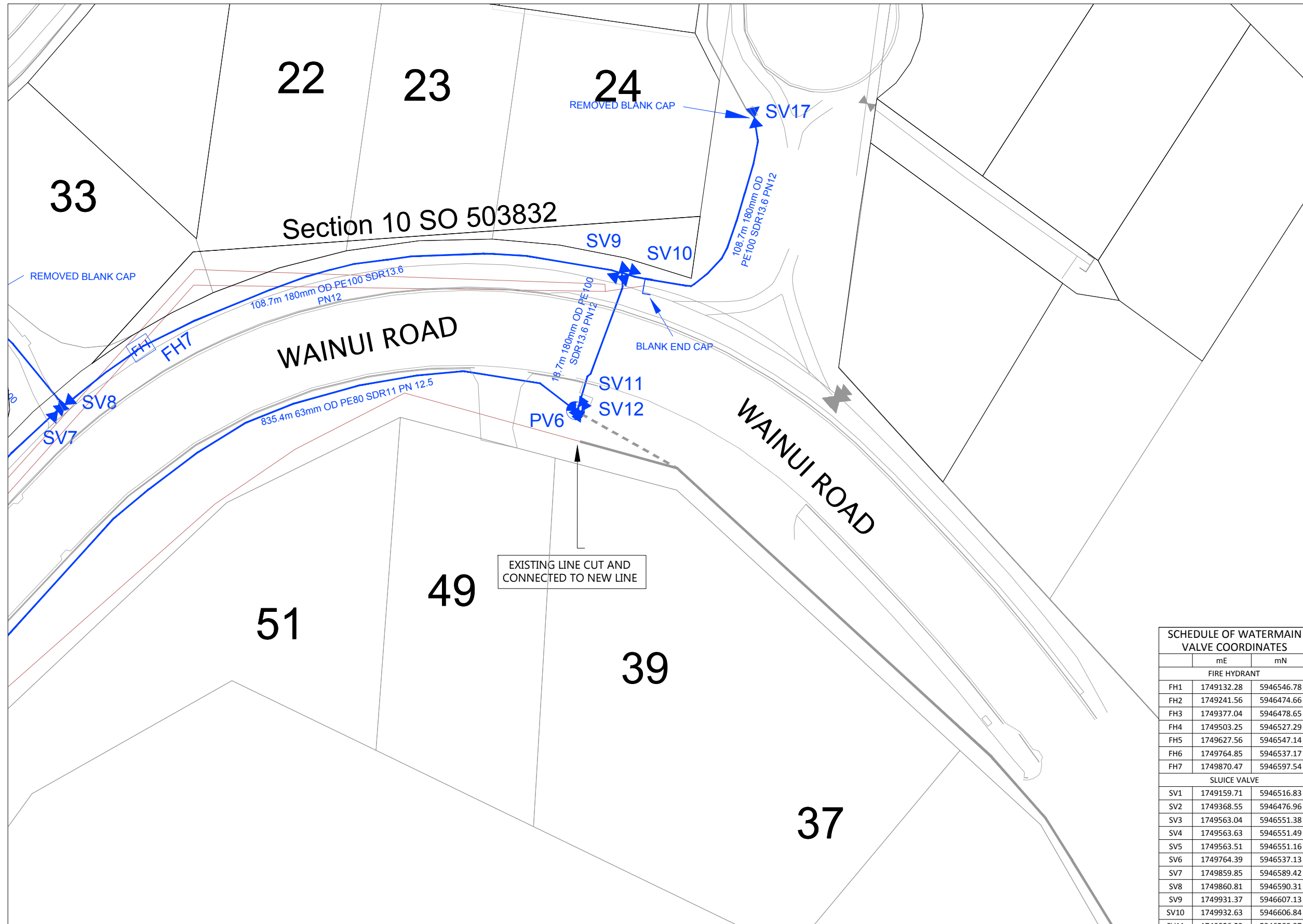
STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-605-AB	

**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: Registered Professional Surveyor  
Date: 05/02/2018  
Name: Rowan Hallam



- NOTES**
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**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18
2	BOUNDARY AMENDMENT	KR	7/05/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C - SUBSTITUTION  
PLANS  
WATERMAIN AS-BUILT  
SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-606-AB	

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
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SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

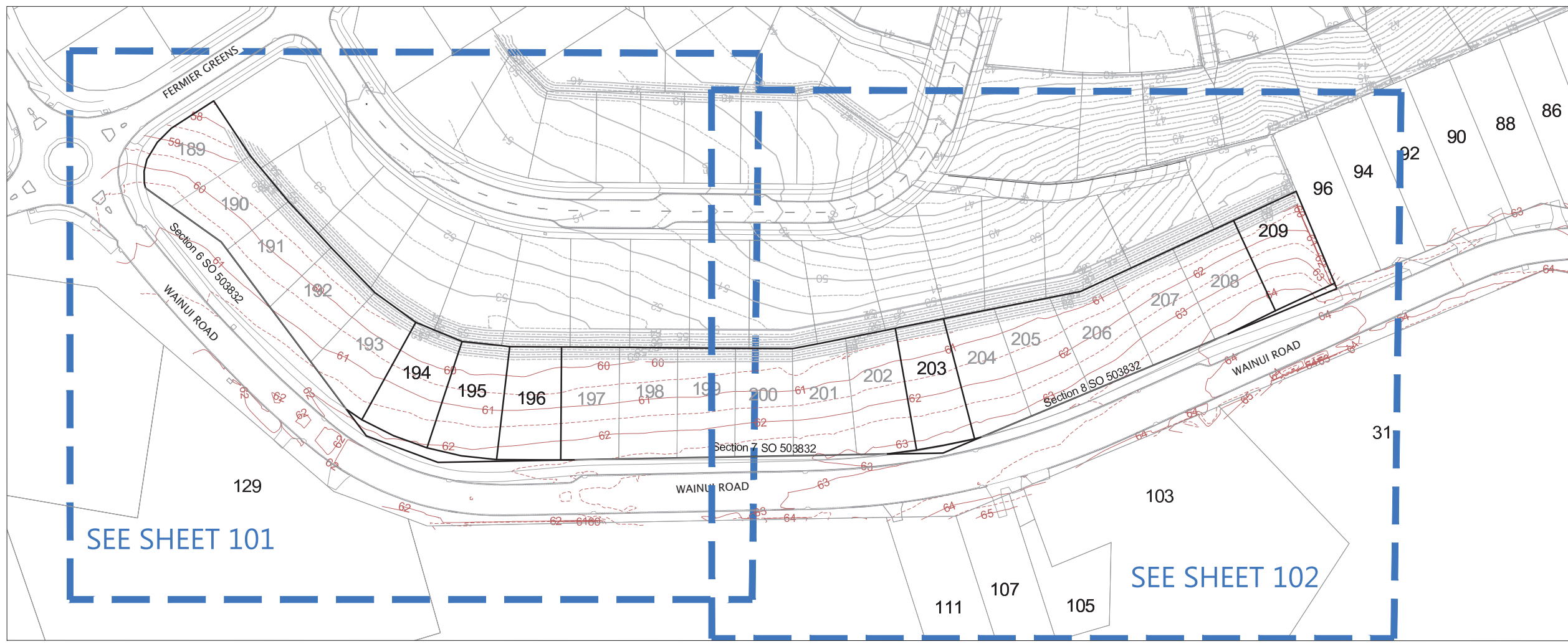
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor  
 Date: 05/02/2018  
 Name: Rowan Hallam

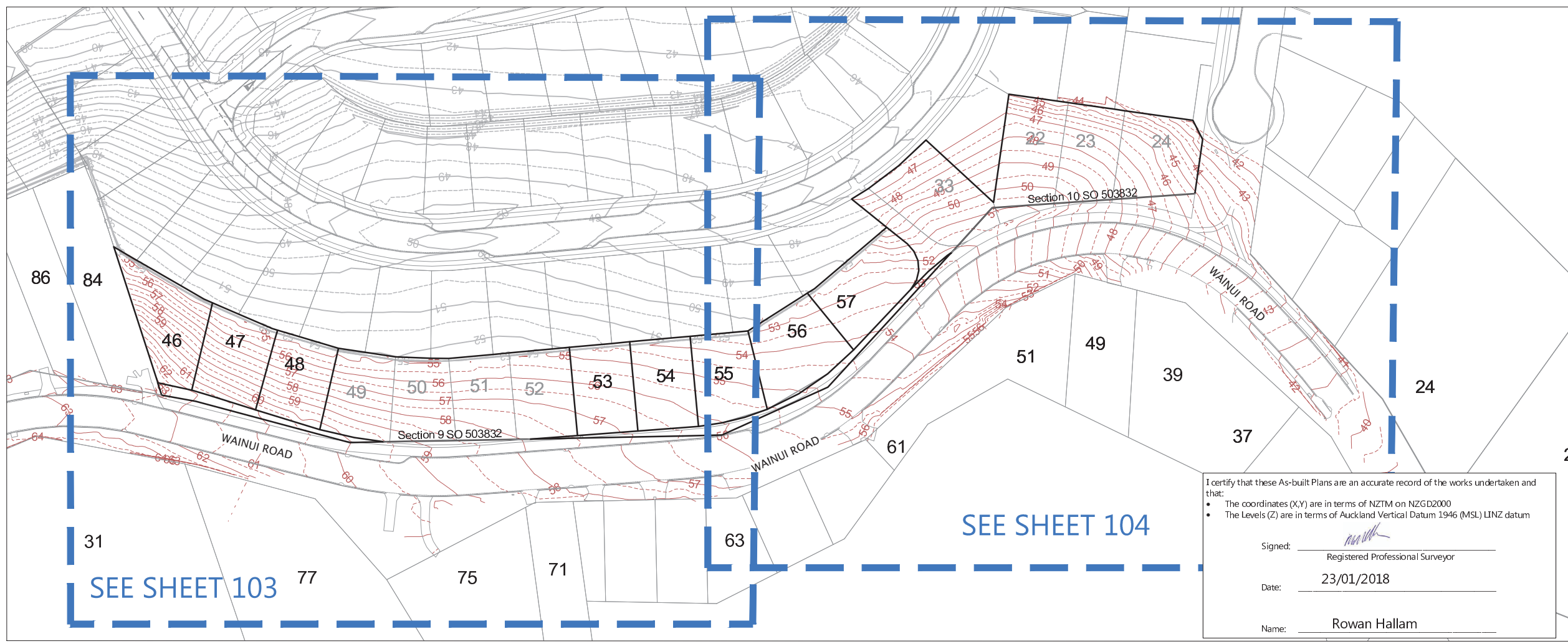
**DISCLAIMER:**  
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SEE SHEET 101

SEE SHEET 102



SEE SHEET 103

SEE SHEET 104

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

Signed: Registered Professional Surveyor  
 Date: 23/01/2018  
 Name: Rowan Hallam

**NOTES**  
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	CONTOURS MAJOR
	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/02/18
3 CONTOURS EXTENDED	KR	12/02/18

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

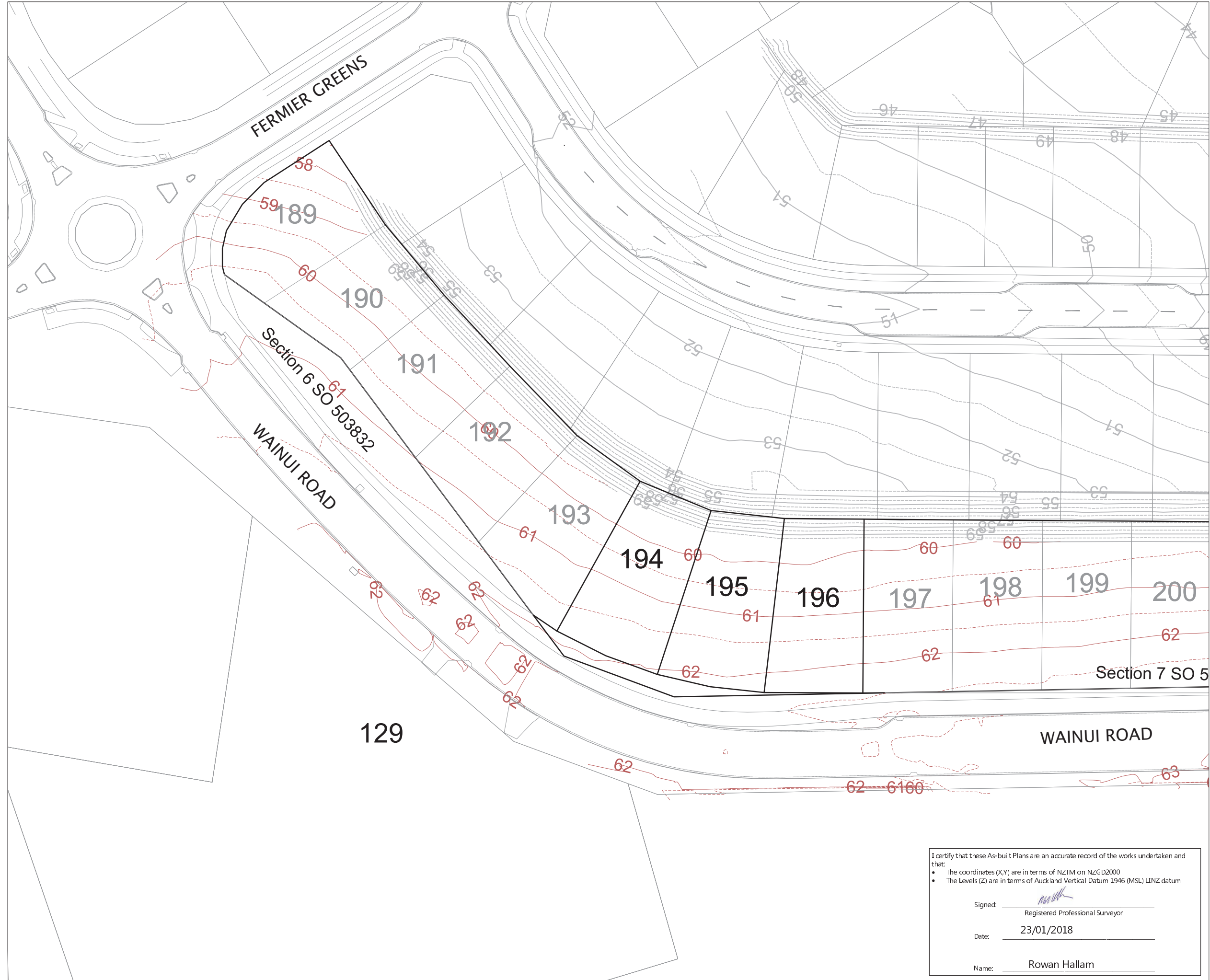


**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**

FINAL CONTOURS  
 PAGE 1 OF 5

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-100-AB	

Document No. K:33726 - WAINUI ROAD UPGRADE PART C\PROJECT DATA\ACAD DRAWINGS\SURVEY\ASBUILT\33726-00-100-AB-FINAL CONTOURS.DWG



**NOTES**  
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	CONTOURS MAJOR
	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
3 CONTOURS EXTENDED	KR	12/02/18

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




**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**

FINAL CONTOURS  
 PAGE 2 OF 5

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Signed:   
 Registered Professional Surveyor

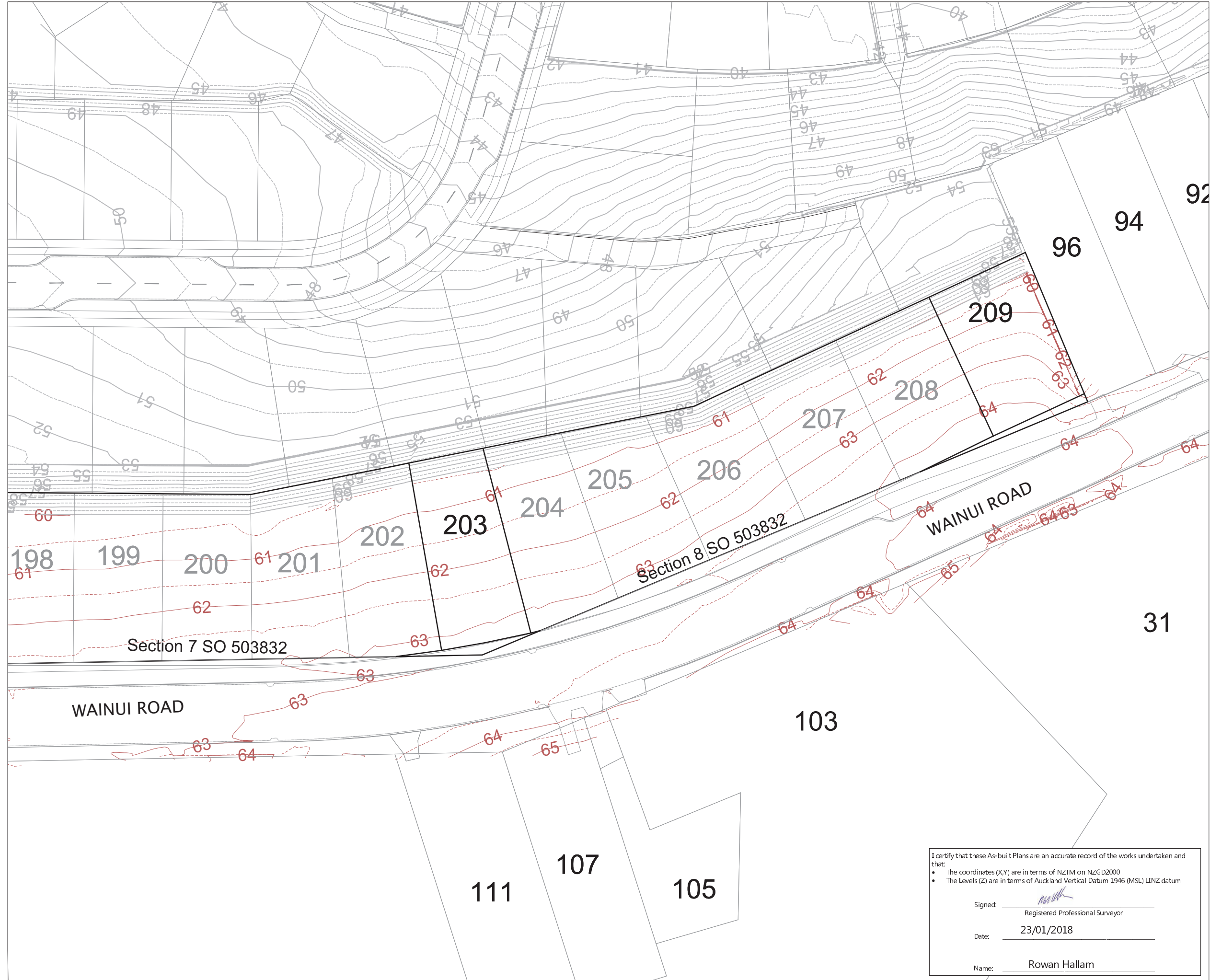
Date: 23/01/2018

Name: Rowan Hallam

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-101-AB	

Document No. K:\33726 - WAINUI ROAD UPGRADE PART C\PROJECT DATA\ACAD DRAWINGS\SURVEY\ASBUILT\33726-00-100-AB-FINAL CONTOURS.DWG





**NOTES**  
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	CONTOURS MAJOR
	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/01/18
3	CONTOURS EXTENDED	MRH	12/02/18

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



**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**

FINAL CONTOURS  
 PAGE 3 OF 5

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-102-AB	

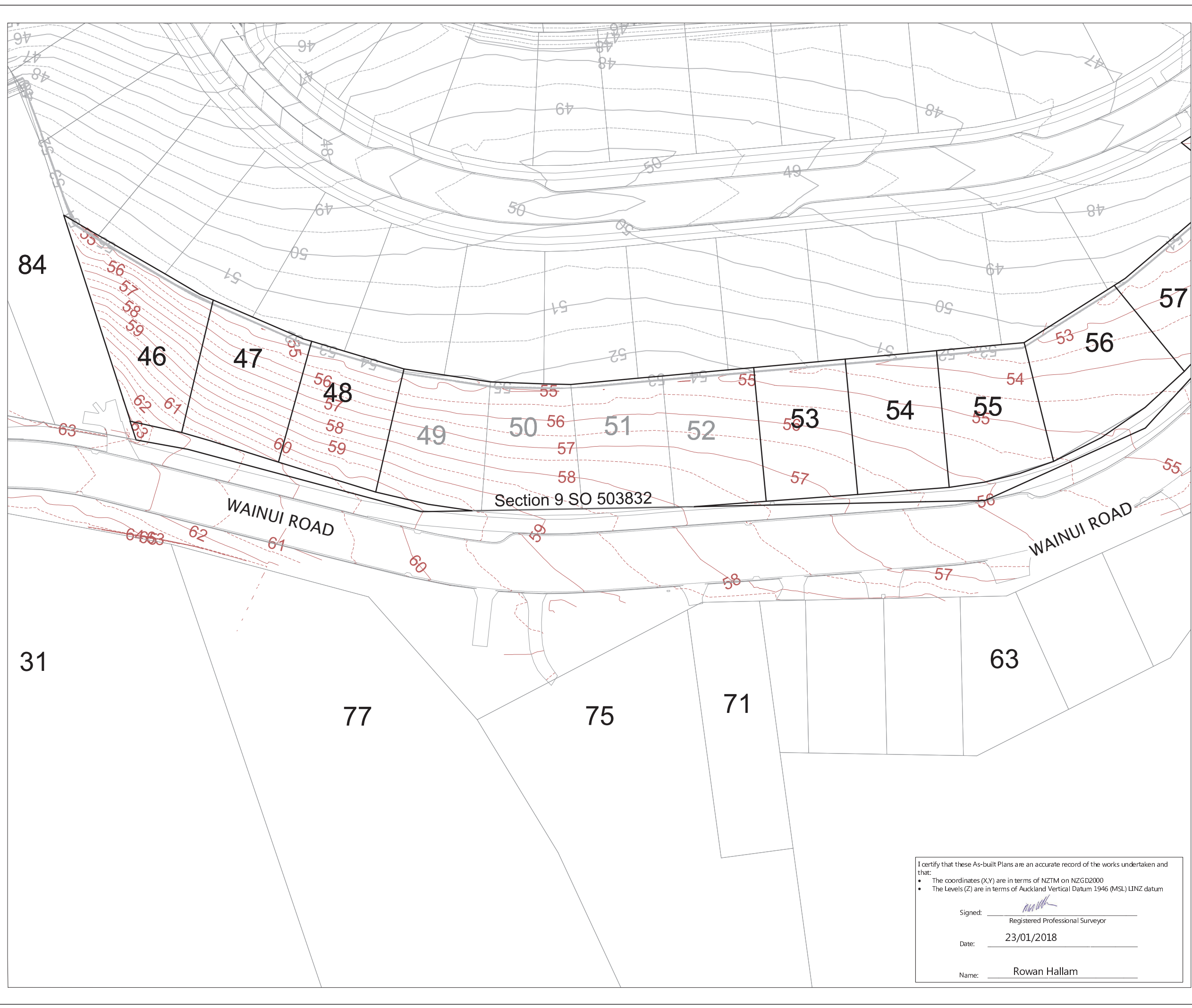
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Signed:   
 Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam



**NOTES**  
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

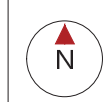
**LEGEND**

	CONTOURS MAJOR
	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

**DISCLAIMER:**  
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 WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
3 CONTOURS EXTENDED	KR	12/02/18

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



**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**

**FINAL CONTOURS  
 PAGE 4 OF 5**

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

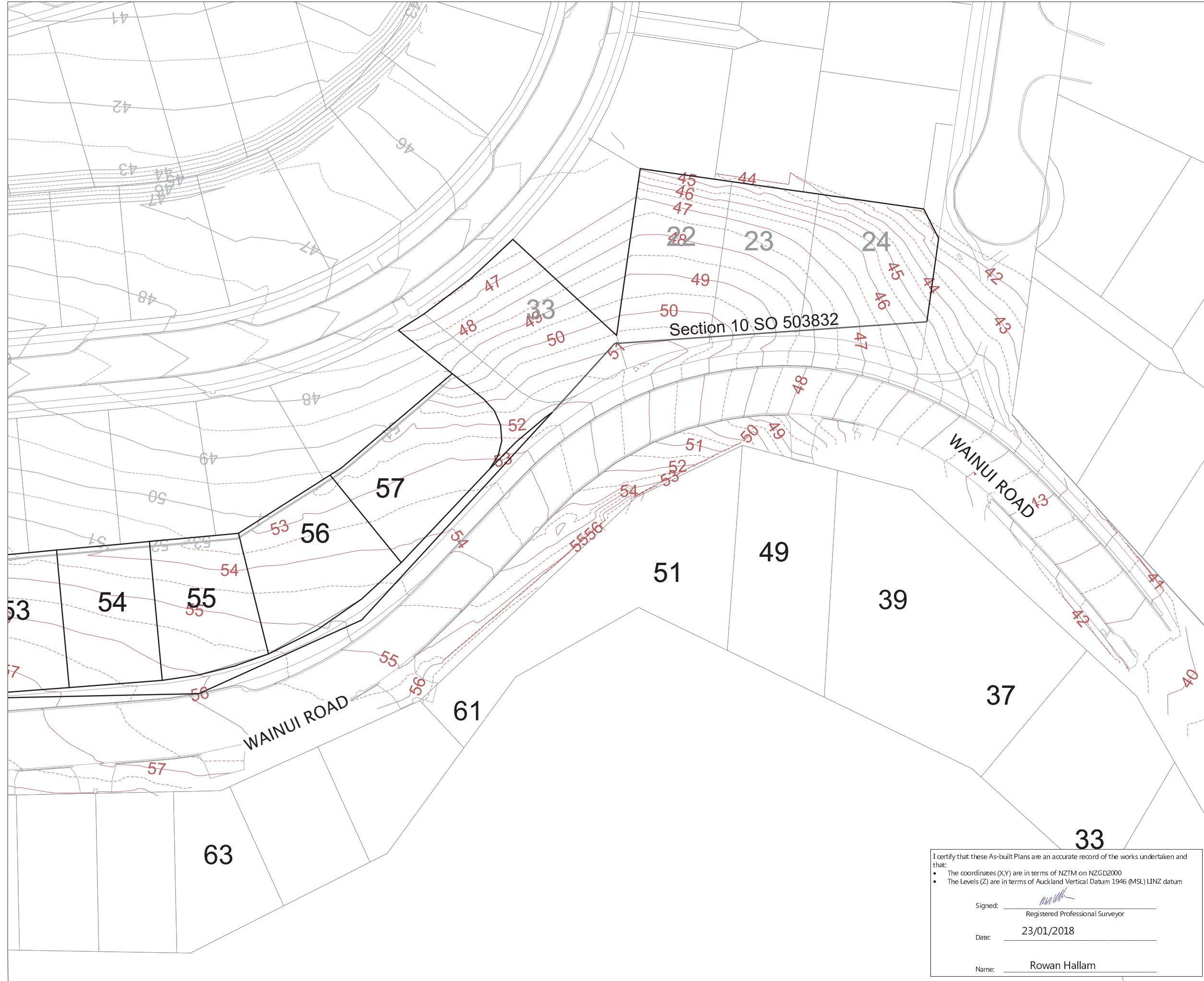
Signed: \_\_\_\_\_  
 Registered Professional Surveyor

Date: 23/01/2018 \_\_\_\_\_

Name: Rowan Hallam \_\_\_\_\_

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-103-AB	





**NOTES**  
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	CONTOURS MAJOR
	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
3 CONTOURS EXTENDED	KR	12/02/18

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



N




**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**

**FINAL CONTOURS  
 PAGE 5 OF 5**

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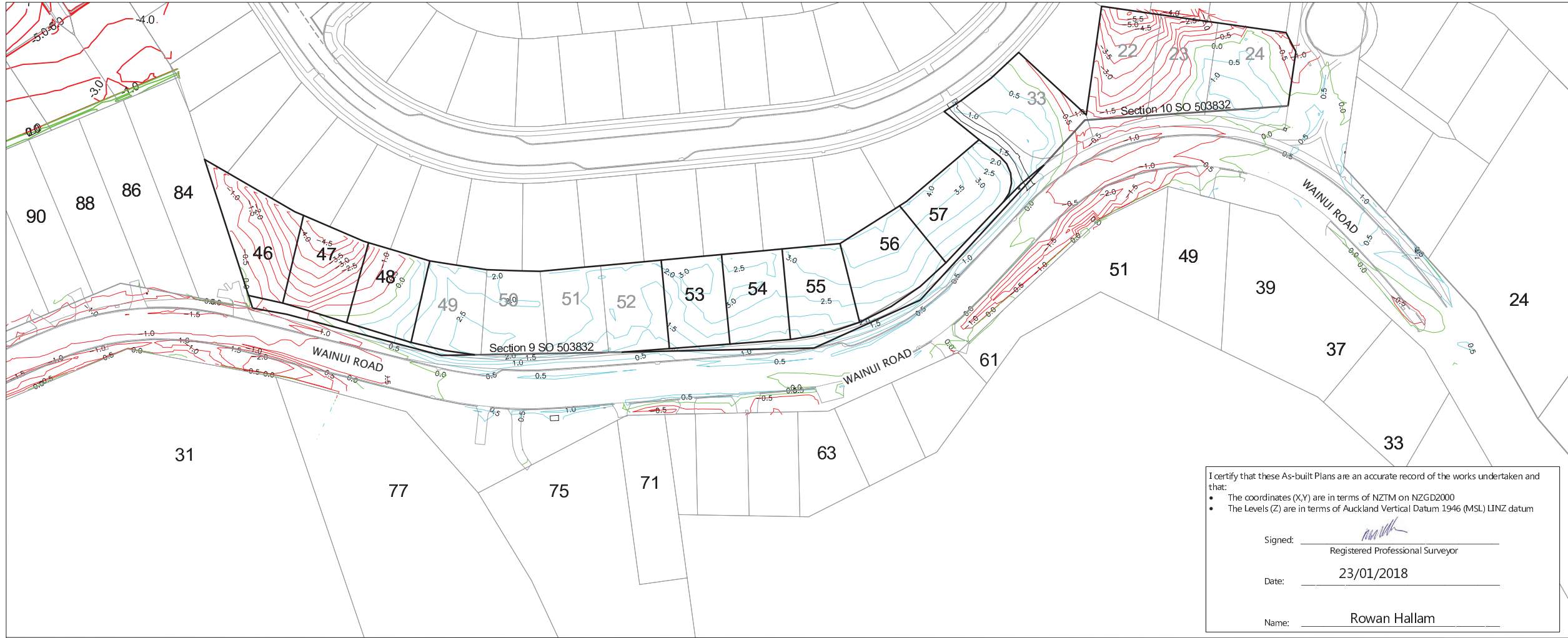
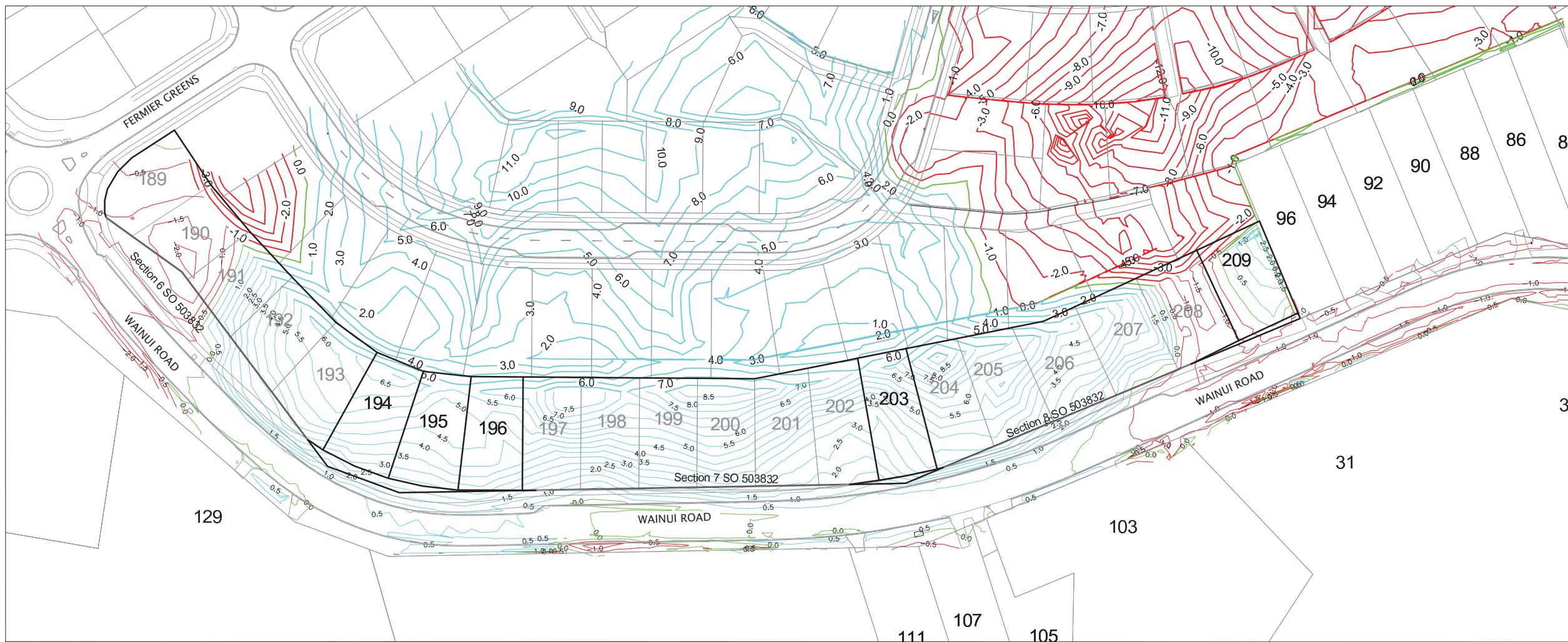
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:   
 Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-104-AB	



**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
4 CONTOURS EXTENDED	KR	12/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**  
**CUT/FILL CONTOUR ASBUILT  
ORIGINAL SURFACE -  
FINAL SURFACE**

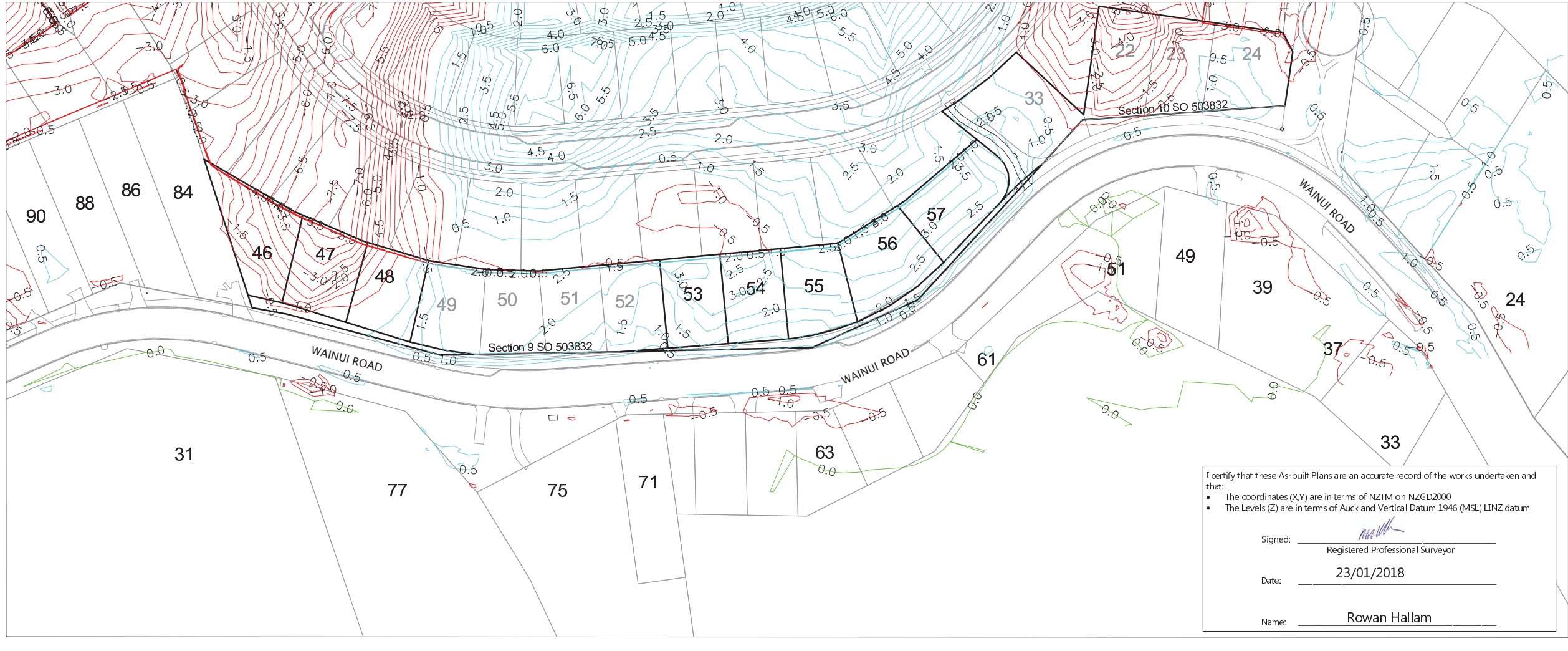
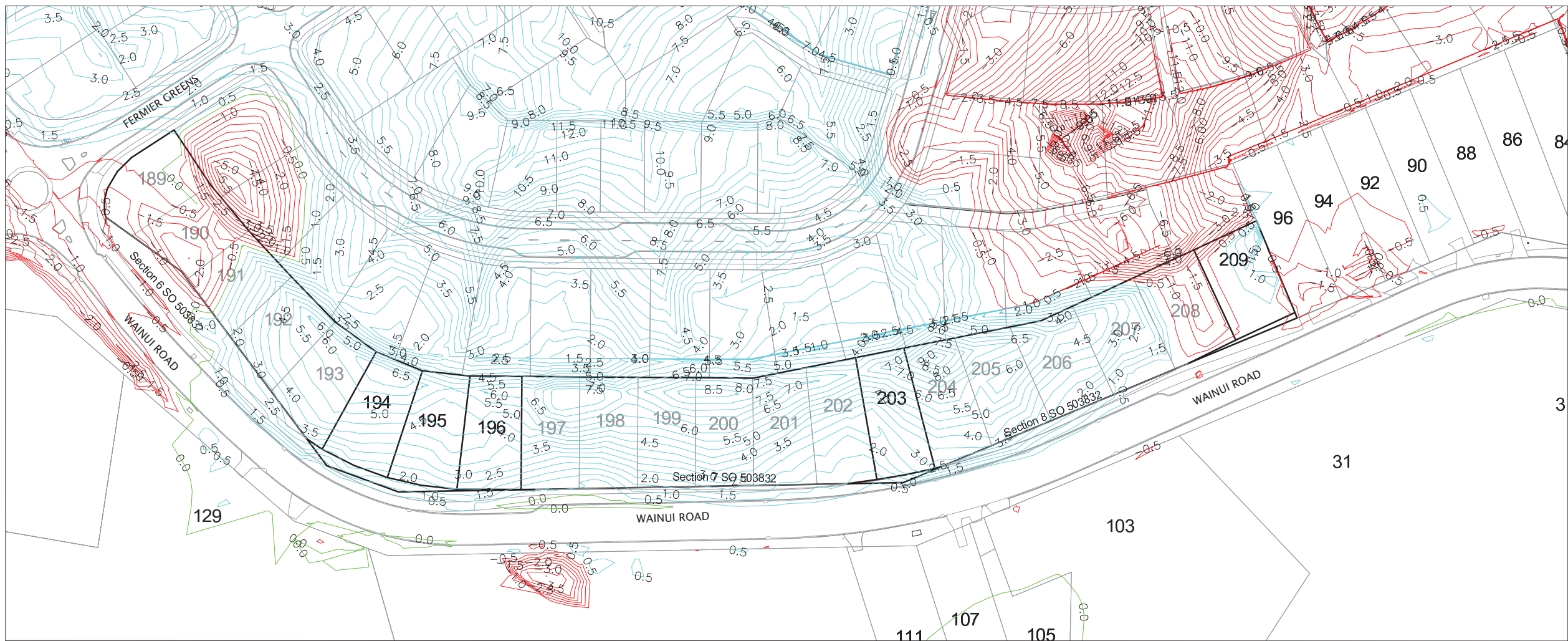
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 23/01/2018  
Name: Rowan Hallam

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-110-AB	





**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
4 CONTOURS EXTENDED	KR	12/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**  
**CUT/FILL CONTOUR ASBUILT  
ORIGINAL SURFACE -  
EARTHWORKS SURFACE**

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

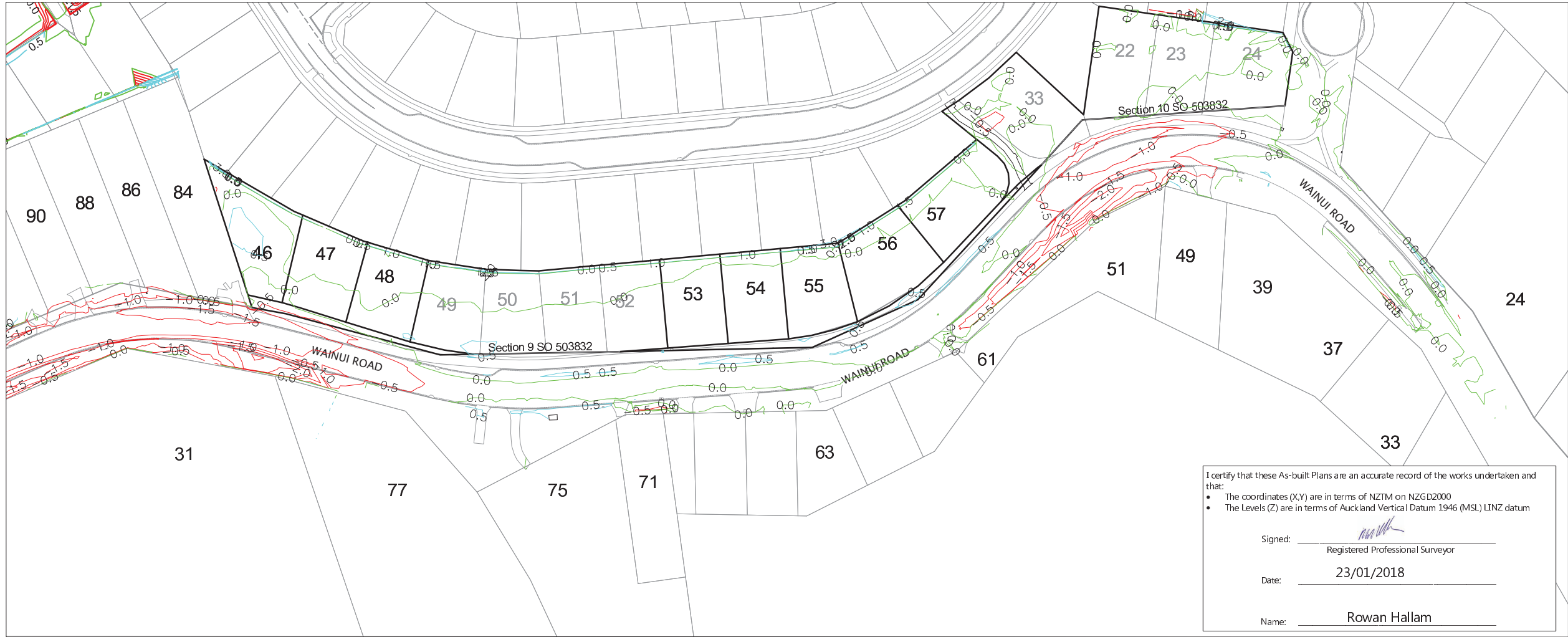
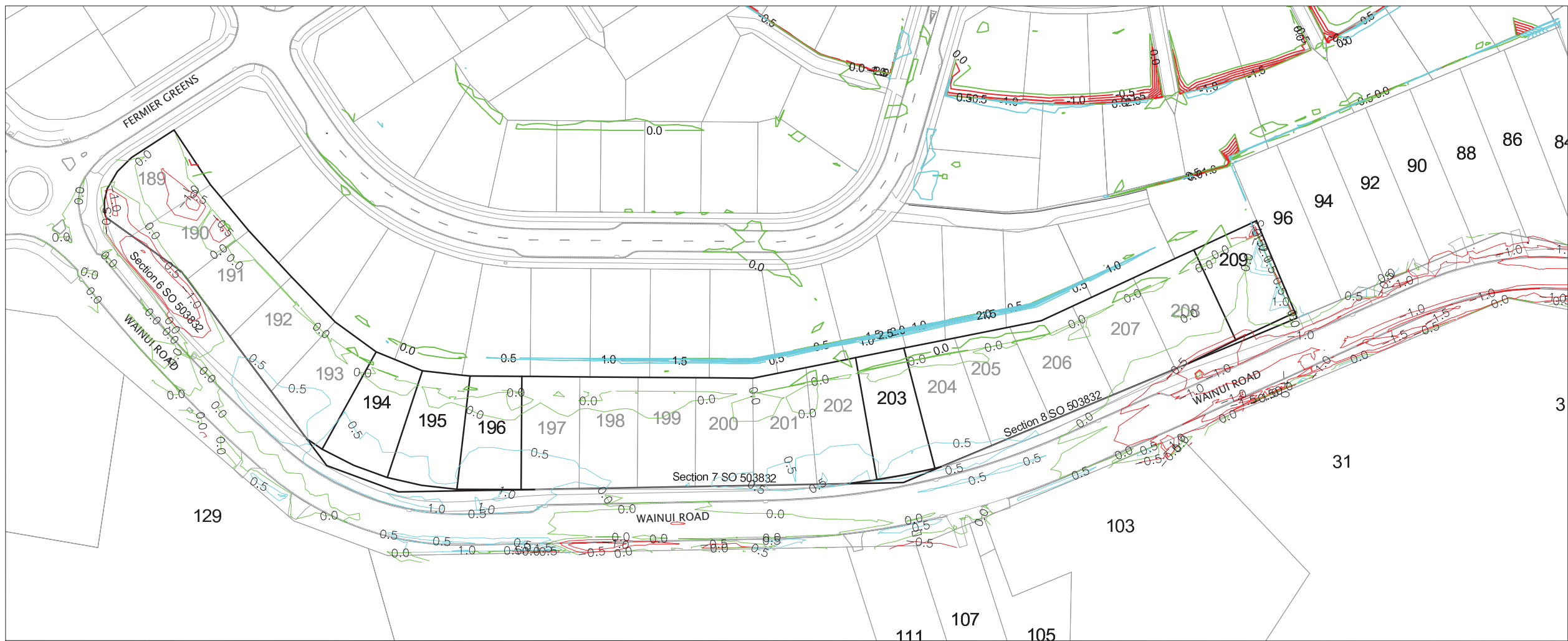
Signed:   
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-111-AB	





**NOTES**  
1. CONTOURS ARE AT 0.5 METRE INTERVALS

**LEGEND**

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

**DISCLAIMER:**  
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	23/01/18
4 CONTOURS EXTENDED	KR	12/08/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**  
**CUT/FILL CONTOUR ASBUILT  
EARTHWORKS SURFACE -  
FINAL SURFACE**

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: 23/01/2018  
 Name: Rowan Hallam

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-112-AB	

Document No. K:\33726 - Wainui Road Upgrade Part C\Project Data\Acad Drawings\Survey\ASBUILT\33726-00-110-AB-CUT FILL CONTOURS.DWG



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 THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.

WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

**NOTES**  
 1. CONTOURS ARE AT 0.5 METRE INTERVALS  
 2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

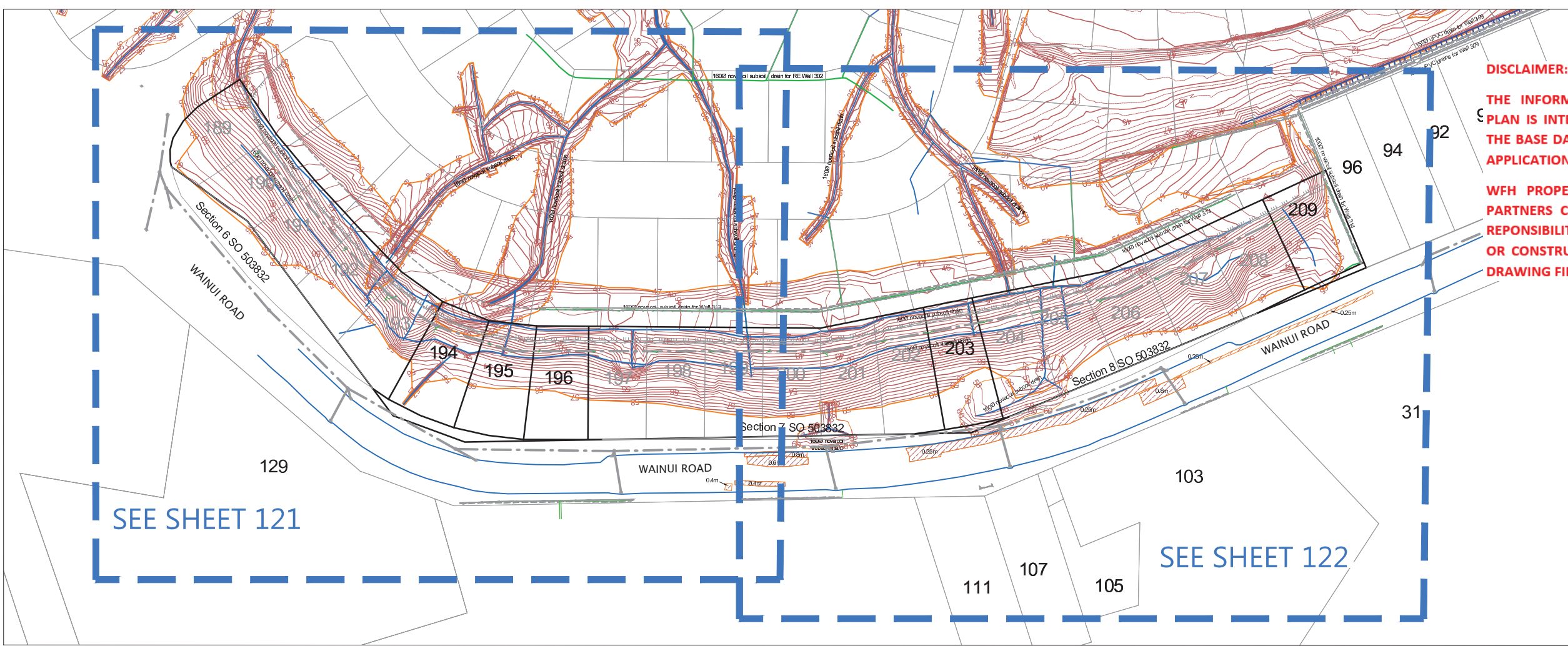
- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/01/18
2	DATA ADDED	KR	12/02/18

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

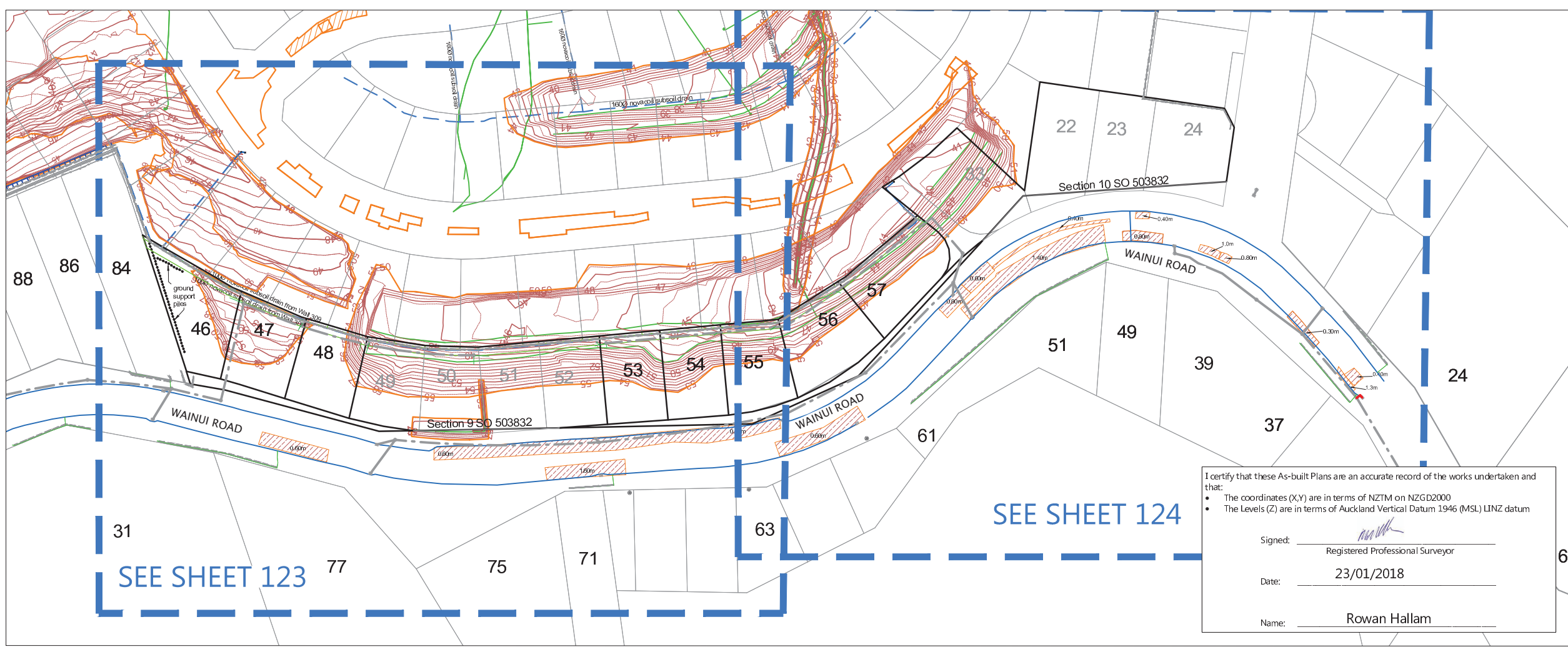
**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**  
 SHEAR KEY, UNDERCUT  
 AND SUBSOIL DRAIN ASBUILT  
 SHEET 1 OF 5

STATUS	AS-BUILT	REV
SCALE	1:1500@ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-120-AB	



SEE SHEET 121

SEE SHEET 122



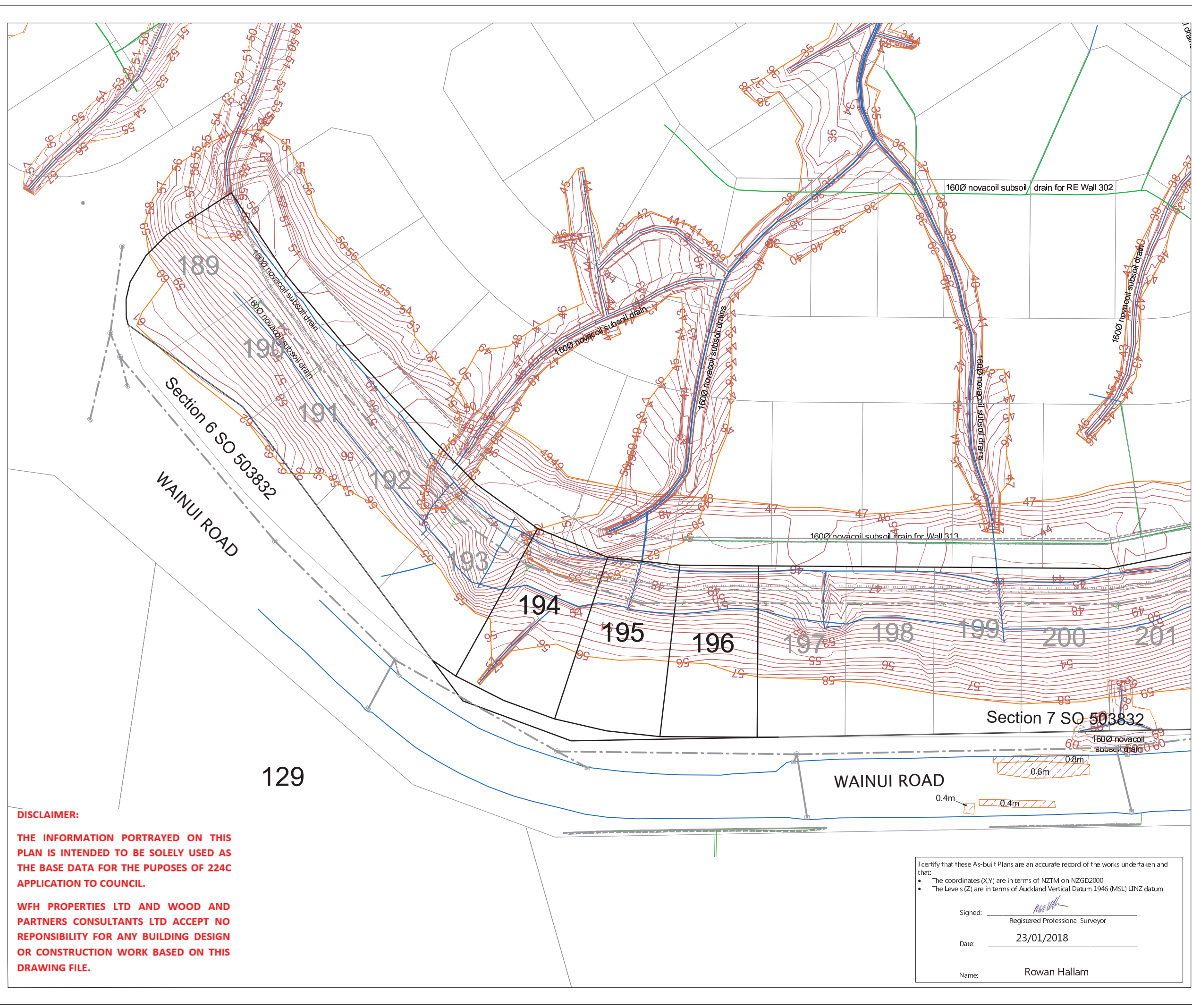
SEE SHEET 123

SEE SHEET 124

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: 23/01/2018  
 Name: Rowan Hallam





**NOTES**

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/01/18
2	DATA ADDED	MRH	12/02/18

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

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 2 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750@ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-122-AB	

**DISCLAIMER:**

THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.

WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD 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:

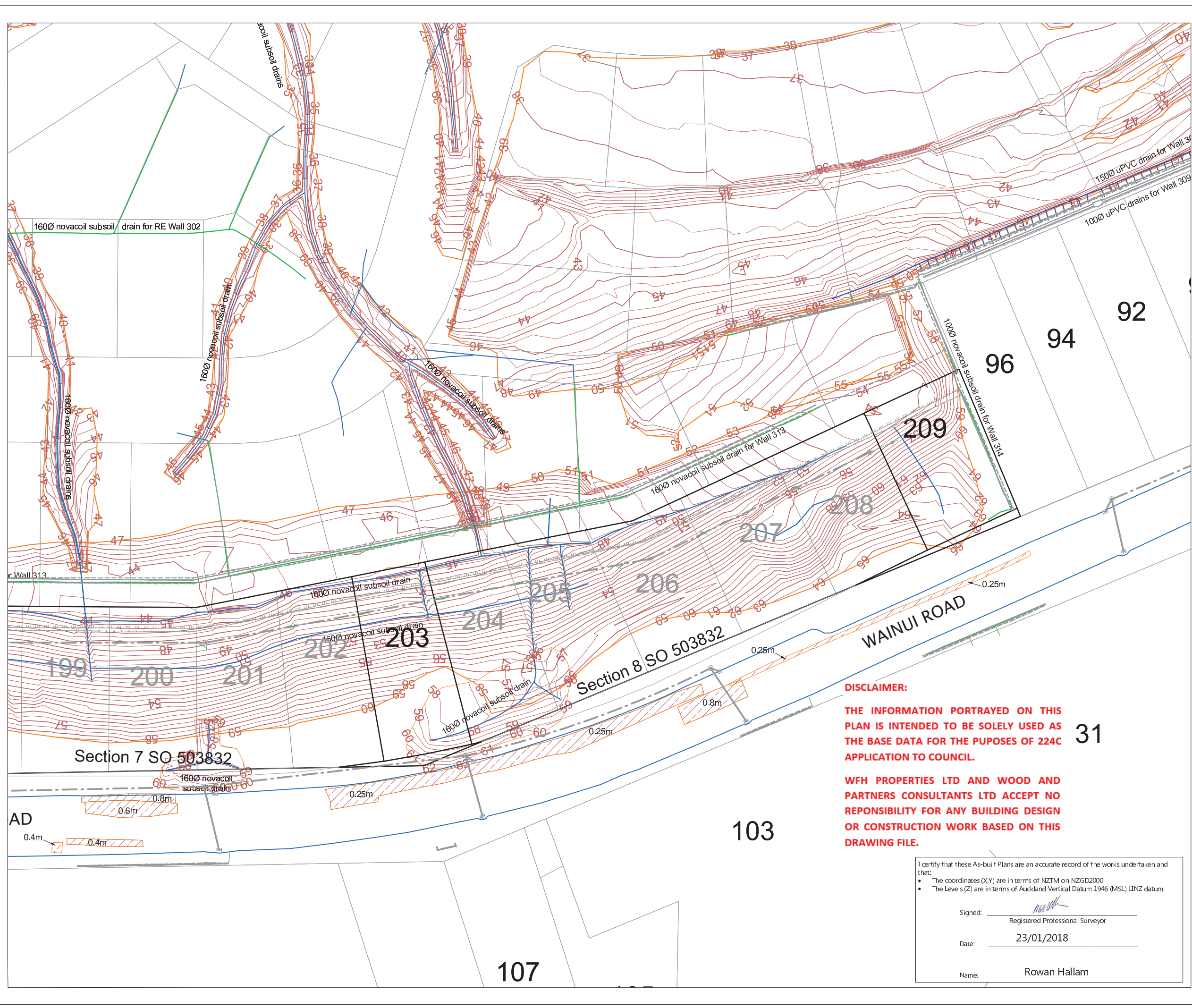
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam





**NOTES**

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/01/18
2	DATA ADDED	KR	12/02/18

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

**DISCLAIMER:**

THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.

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

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam



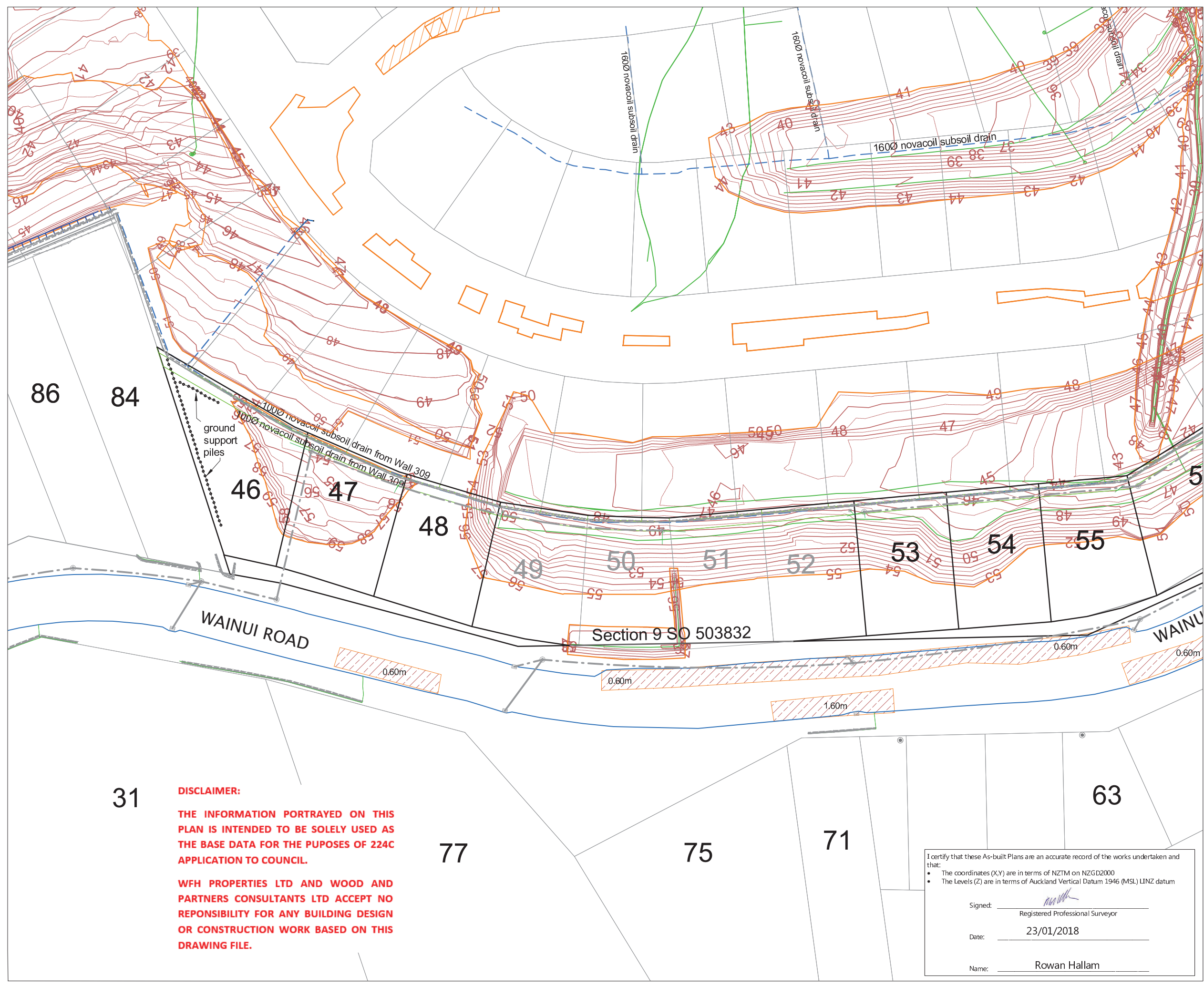
**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 3 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750@ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-122-AB	

Document No. K133726 - WAINUI ROAD UPGRADE PART C\PROJECT DATA\Acad Drawings\Survey\ASBUILT\33726-00-120-AB-SK UC & SUBSOIL.dwg





**NOTES**

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/01/18
2	DATA ADDED	KR	12/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 4 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750@ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-123-AB	

**DISCLAIMER:**

THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.

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

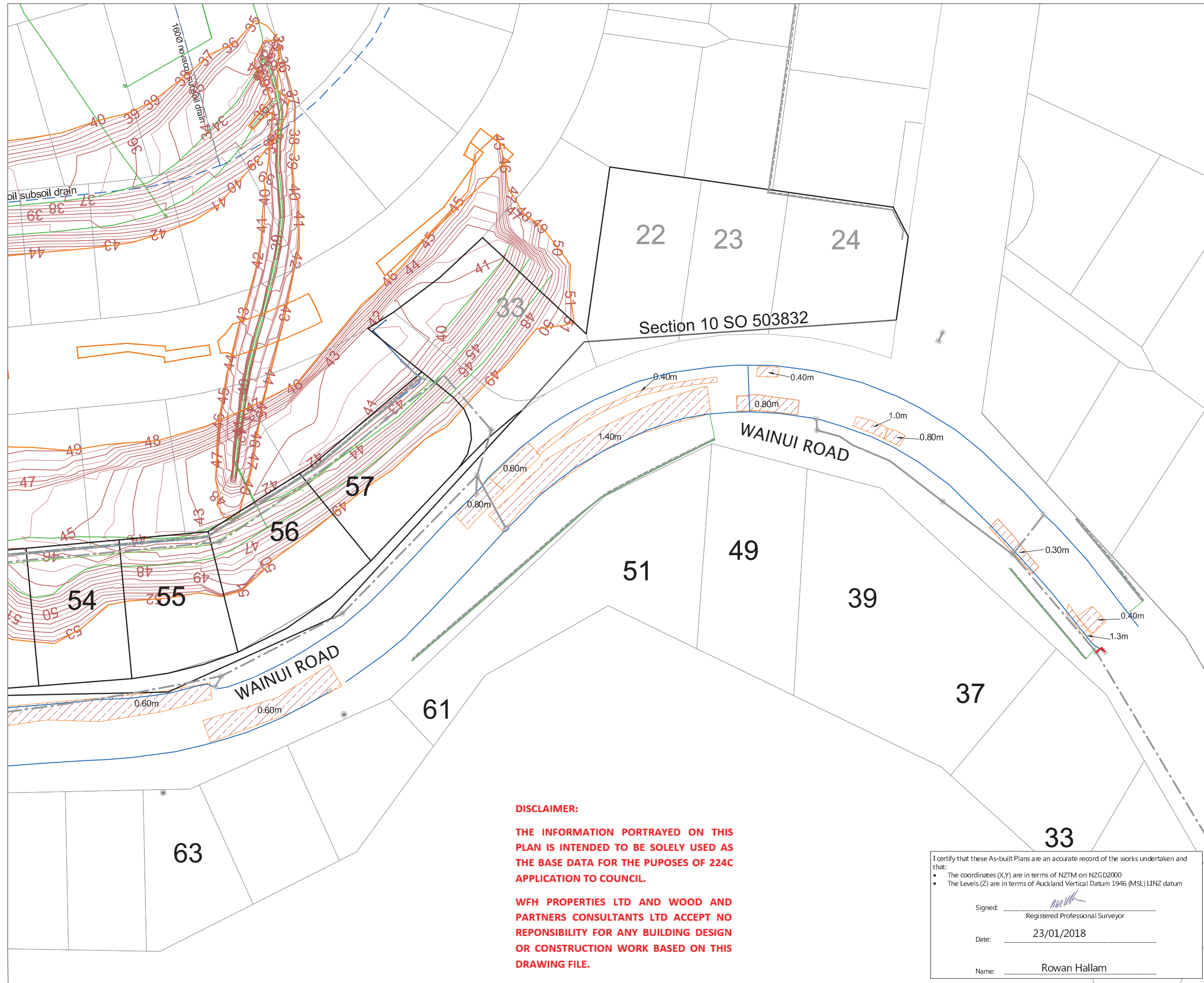
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018

Name: Rowan Hallam





**NOTES**

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. WAINUI ROAD UNDER CHANNEL DRAINS CONNECT TO EXISTING

**LEGEND**

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- STORMWATER MANHOLE
- STORMWATER CESSPIT
- LOT BOUNDARIES
- FUTURE LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- UNDERCUT DEPTH
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	23/01/18
2	DATA ADDED	KR	12/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**SHEAR KEY, UNDERCUT  
AND SUBSOIL DRAIN ASBUILT  
SHEET 5 OF 5**

STATUS	AS-BUILT	REV
SCALE	1:750@ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-124-AB	

**DISCLAIMER:**

**THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.**

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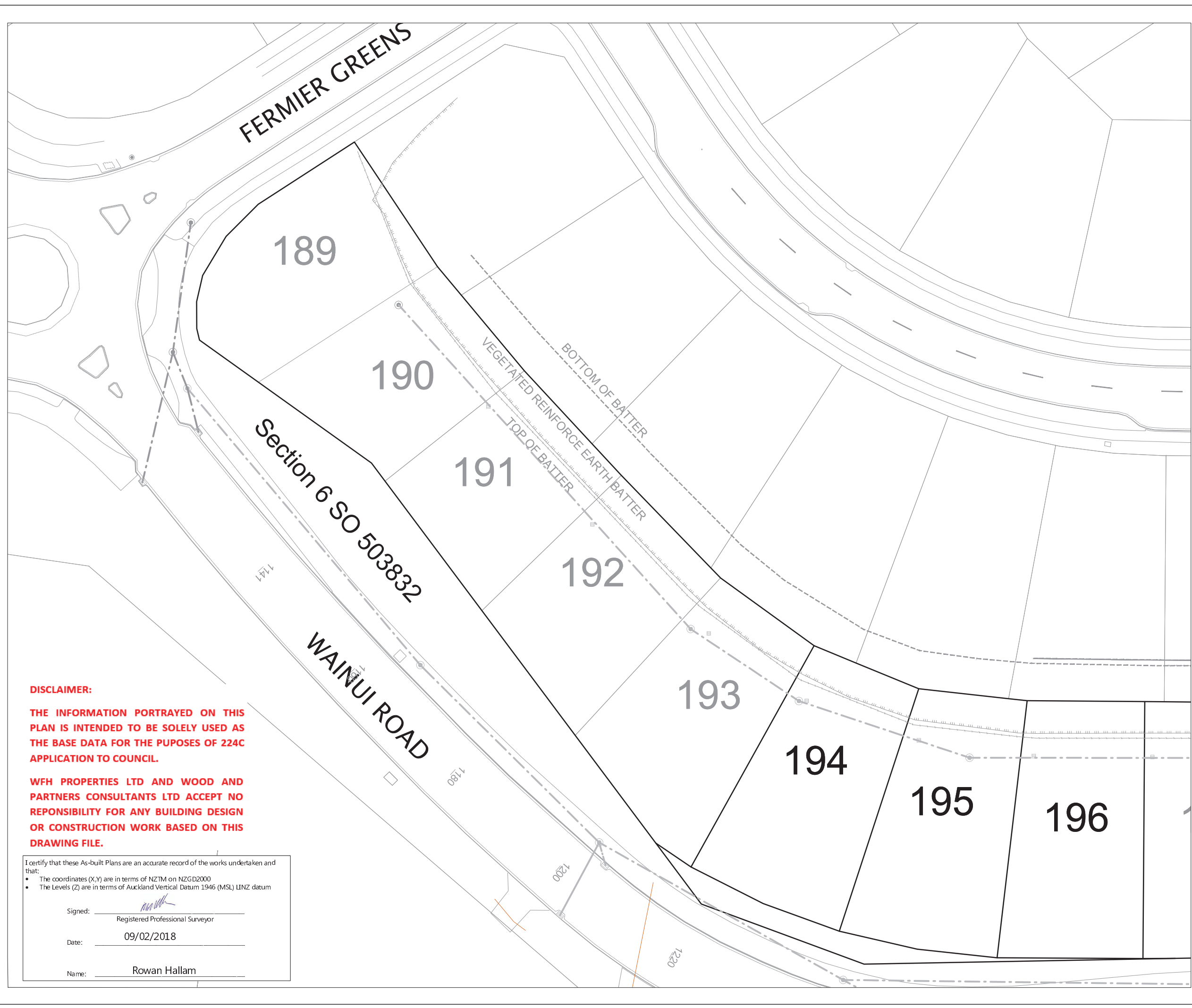
Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 23/01/2018




Name: Rowan Hallam







**LEGEND:**

- - - - - NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- - - - - EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
-  CATCH PIT/BERM SUMP
-  FIELD CESSPIT
-  STORMWATER MANHOLE
- NEW FENCE
- - - - - EXISTING FENCE
- - - - - EXISTING TOP OF BANK
- - - - - EXISTING BOTTOM OF BANK
- - - - - STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

**NOTES**

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



N



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**RETAINING WALL AS-BUILT  
SHEET 2 OF 7**


STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-131-AB	

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

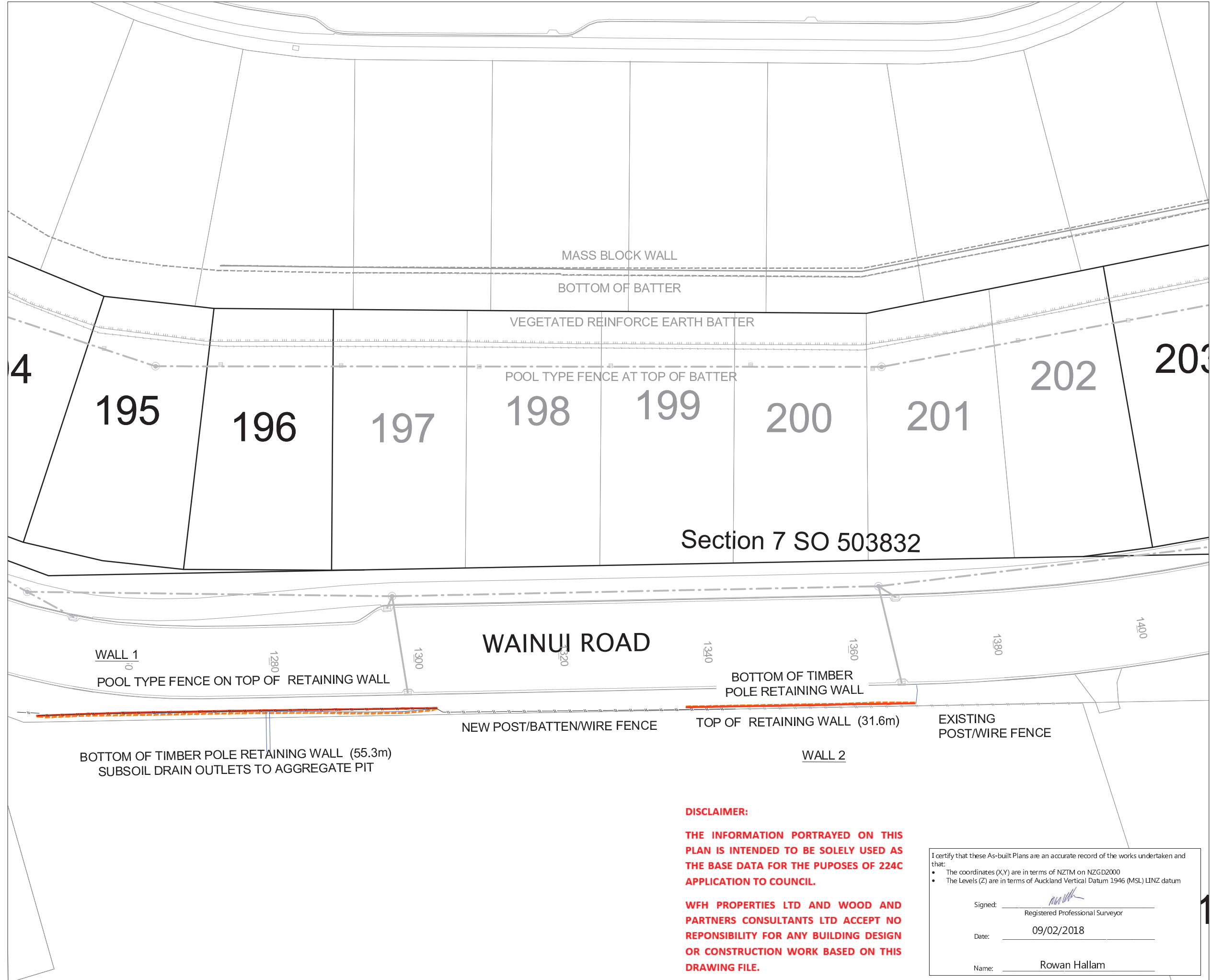
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:   
Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam

K:\33726 - WAINUI ROAD UPGRADE PART C\PROJECT DATA\ACAD DRAWINGS\SURVEY\ASBUILT\33726-00-130-AB-WALLS.DWG



**LEGEND:**

- - - - - NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- - - - - EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- - - - - EXISTING FENCE
- - - - - EXISTING TOP OF BANK
- - - - - EXISTING BOTTOM OF BANK
- - - - - STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

- NOTES**
1. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  2. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	09/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**RETAINING WALL AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-132-AB	

**DISCLAIMER:**

**THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.**

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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

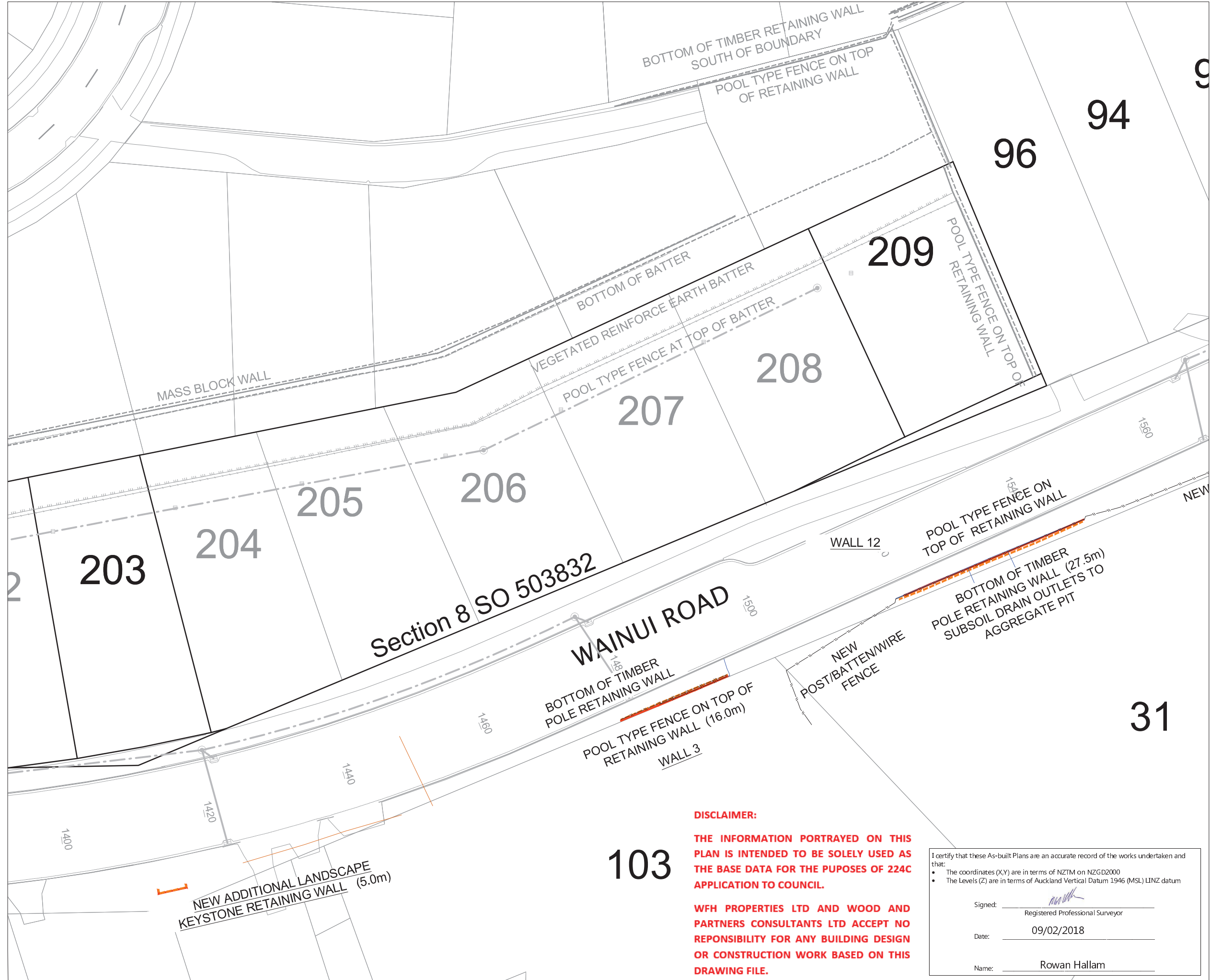
Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam

K:\33726 - WAINUI ROAD UPGRADE PART C\PROJECT DATA\ACAD DRAWINGS\SURVEY\ASBUILT\33726-00-130-AB-WALLS.DWG





**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

- NOTES**
1. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  2. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

RETAINING WALL AS-BUILT  
SHEET 4 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-133-AB	

**DISCLAIMER:**

**THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.**

**WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD 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:

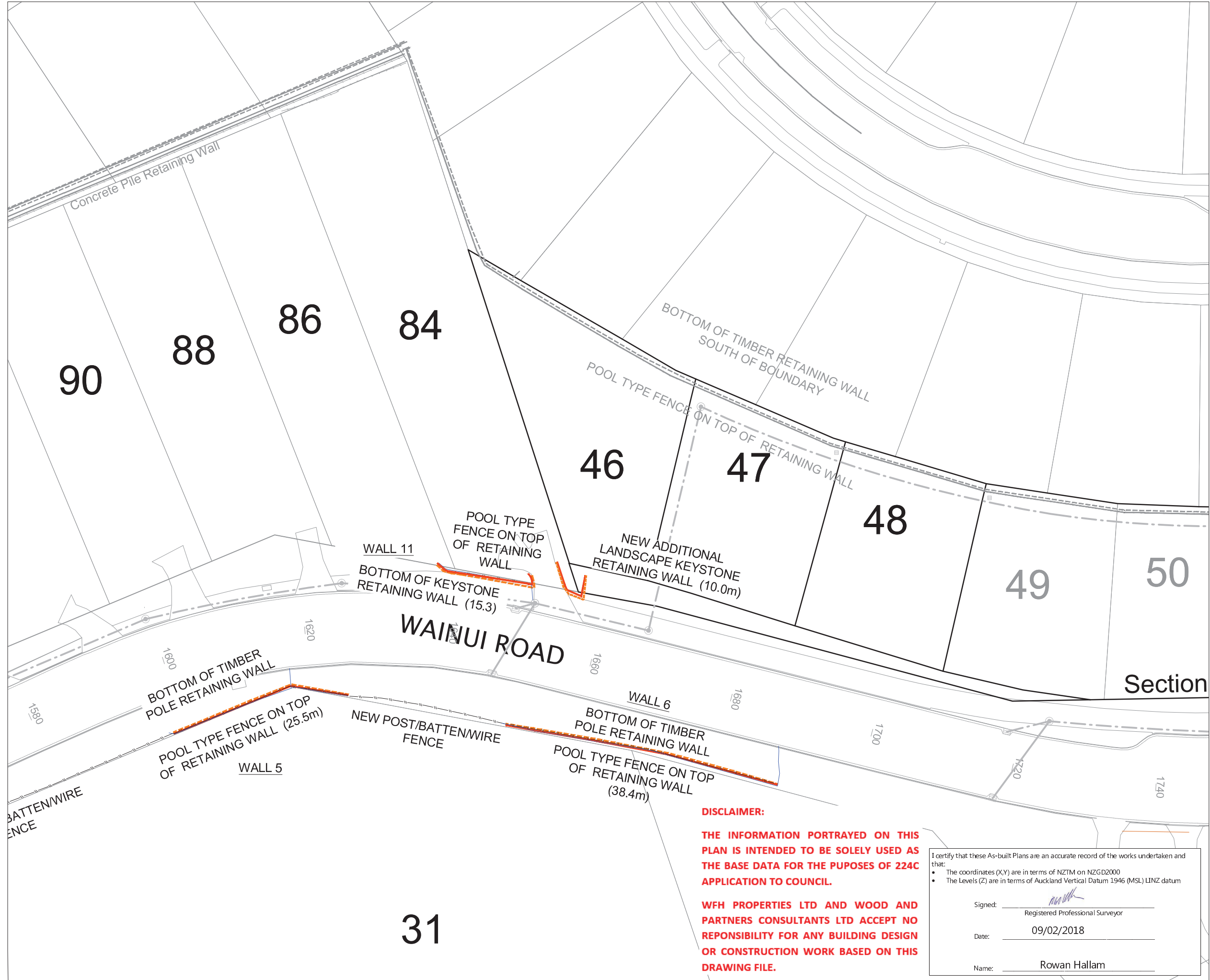
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: Rowan Hallam

K:\33726 - Wainui Road Upgrade Part C\Project Data\Acad Drawings\Survey\ASBUILT\33726-00-130-AB-WALLS.dwg



**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- ☐ CATCH PIT/BERM SUMP
- ☐ FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

**NOTES**

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

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**RETAINING WALL AS-BUILT  
SHEET 5 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-134-AB	

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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

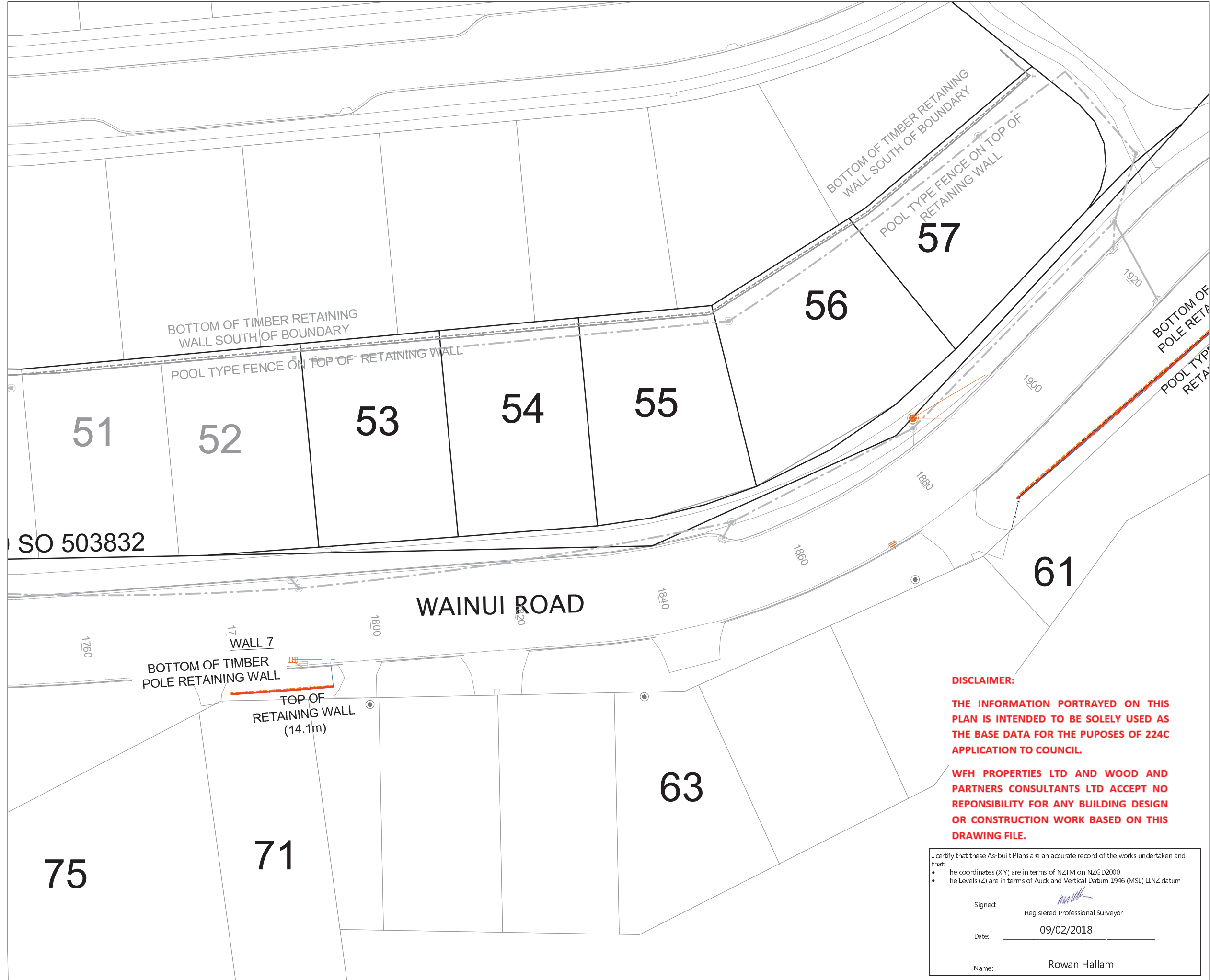
Name: Rowan Hallam

31

Section

K:\33726 - WAINUI ROAD UPGRADE PART C\PROJECT DATA\ACAD DRAWINGS\SURVEY\ASBUILT\33726-00-130-AB-WALLS.DWG





**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18

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DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

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Signed: Registered Professional Surveyor  
Date: 09/02/2018  
Name: Rowan Hallam



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

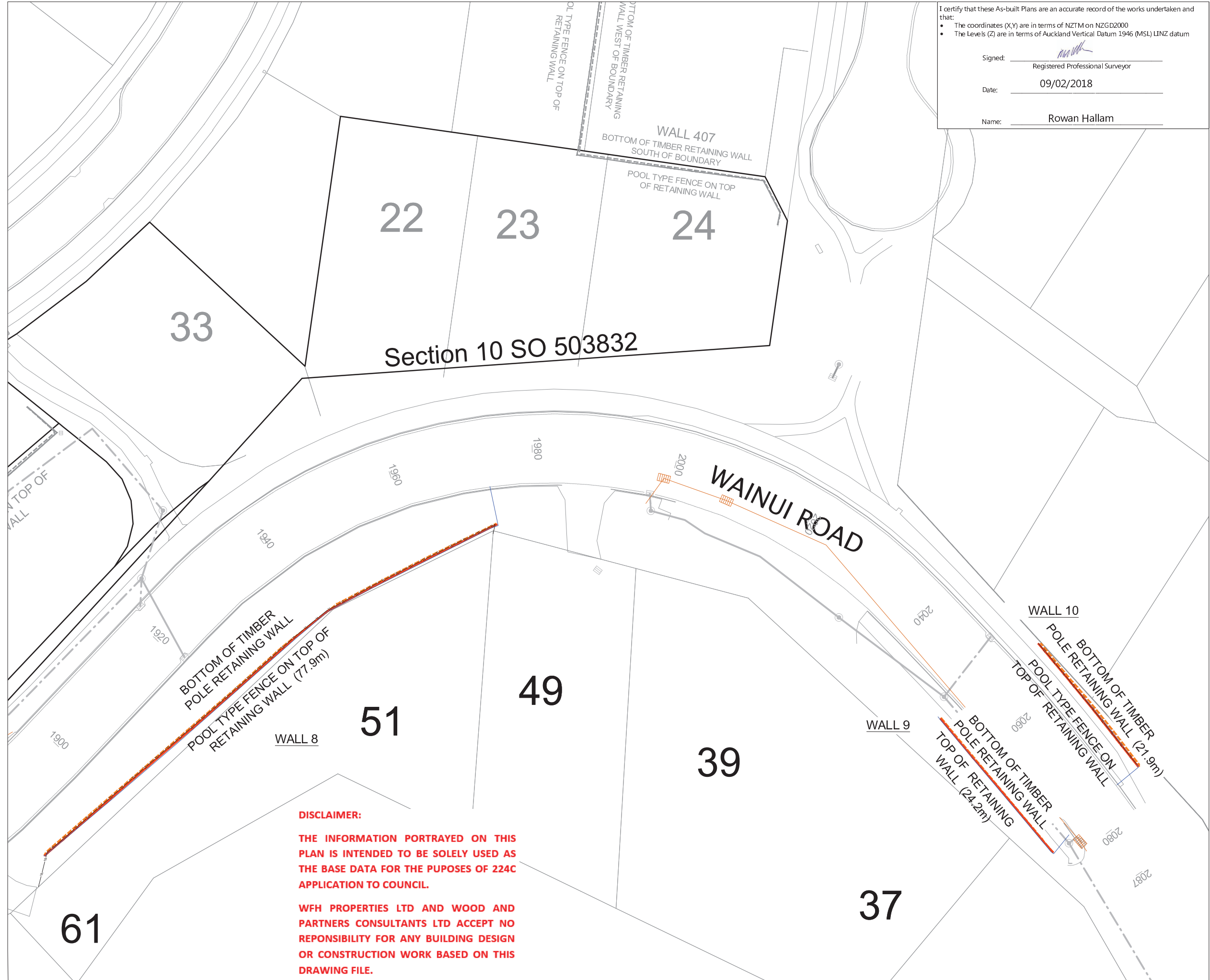
RETAINING WALL AS-BUILT  
SHEET 6 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-135-AB	

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Signed: Registered Professional Surveyor  
 Date: 09/02/2018  
 Name: Rowan Hallam



**LEGEND:**

- NEW BOTTOM FACE OF WALL
- NEW TOP FACE OF WALL
- EXISTING BOTTOM FACE OF WALL
- EXISTING TOP FACE OF WALL
- CATCH PIT/BERM SUMP
- FIELD CESSPIT
- STORMWATER MANHOLE
- NEW FENCE
- EXISTING FENCE
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	09/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

RETAINING WALL AS-BUILT  
SHEET 7 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-136-AB	

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K:\33726 - Wainui Road Upgrade Part C\Project Data\Acad Drawings\Survey\ASBUILT\33726-00-130-AB-WALLS.dwg





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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 09/02/2018

Name: ROWAN HALLAM

- NOTES**
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  - ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
  - ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE DG10, 30mm THICK.
  - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
  - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	NEW CREE EDGE SQUARE T2M 80LED 525mA 4000K SINGLE ARM ON VICPOLE ENLARGED BASE COLUMN
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
SL06	1749346.97	5946458.27	
SL07	1749373.35	5946479.47	
SL08	1749406.37	5946468.58	
SL09	1749426.95	5946495.23	
SL10	1749468.90	5946494.29	
SL11	1749487.93	5946522.05	
SL12	1749529.16	5946521.29	
SL13	1749550.30	5946548.01	
SL14	1749588.57	5946537.66	
SL15	1749621.75	5946547.25	
SL16	1749649.51	5946524.01	
SL17	1749684.88	5946534.24	
SL18	1749714.84	5946516.33	
SL19	1749746.58	5946536.54	
SL20	1749780.25	5946521.05	
SL21	1749805.68	5946545.12	
SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

**LEGEND**

- STREET LIGHT
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- CYCLE LANE BIKE SIGNS, RG 26
- SS ISOLATION VALVE
- SS FLUSHING POINT
- SS AIR VALVE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- GAS METER
- TELECOMMUNICATIONS MANHOLE
- TELECOMMUNICATIONS PLINTH
- SPEED SIGN, RG 1
- ARROW SIGN, PW 17
- POWER BOX
- BOUNDARY KIT BOX
- SAFETY BARRIER
- TACTILE PAVERS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

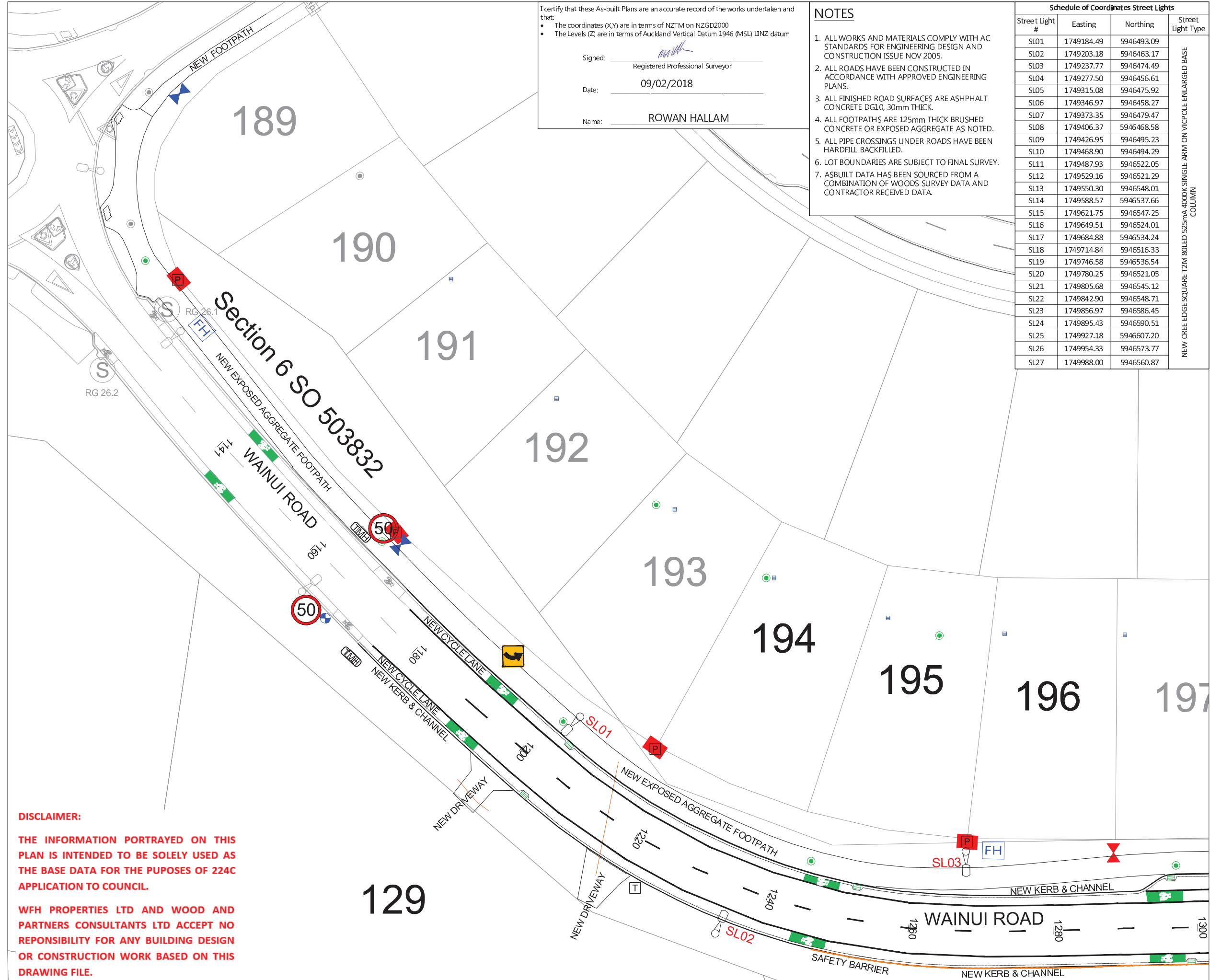
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

ROADING AS-BUILT  
SHEET 2 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-201-AB	

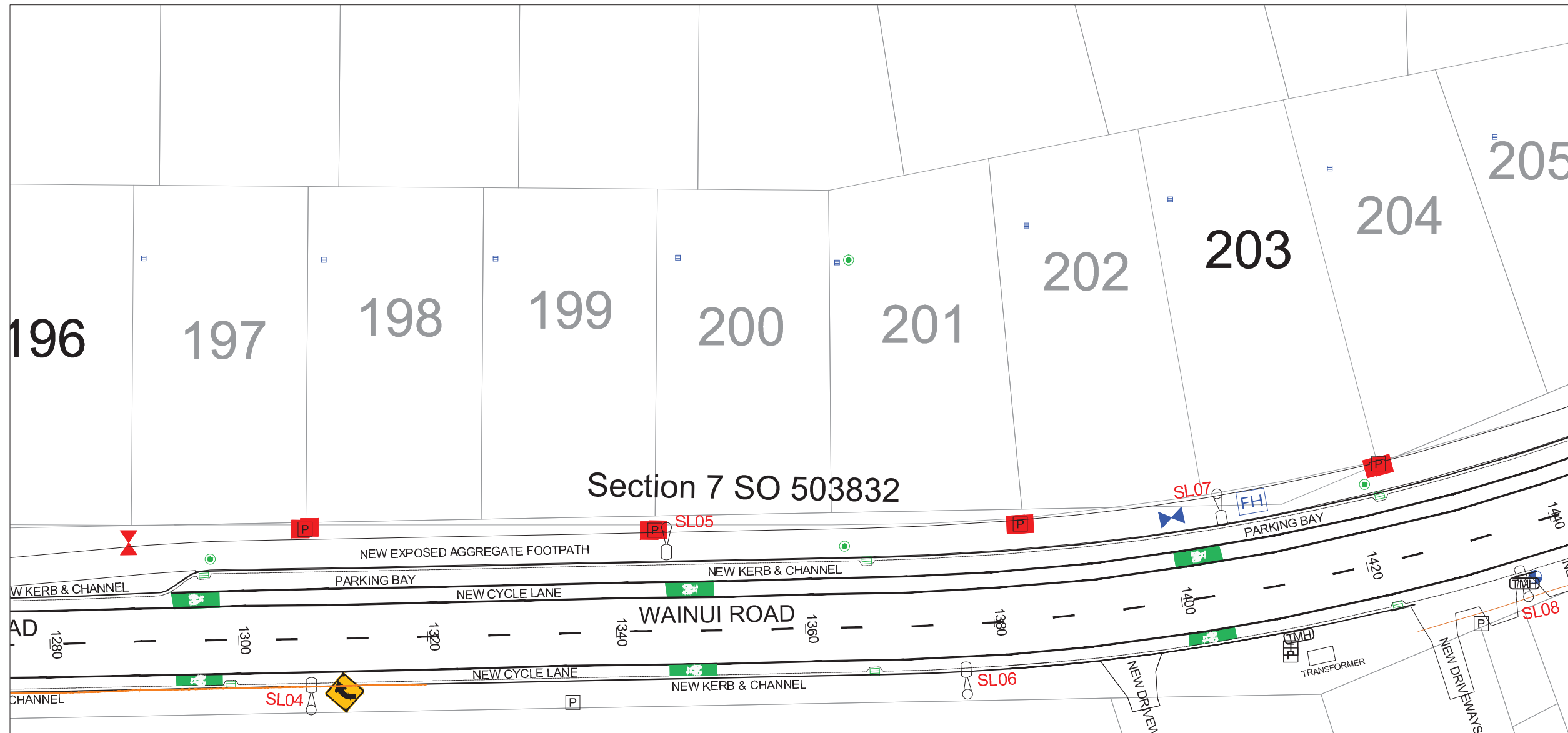


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LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PLINTH
	SPEED SIGN, RG 1
	ARROW SIGN, PW 17
	POWER BOX
	BOUNDARY KIT BOX
	SAFETY BARRIER
	TACTILE PAVERS

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**ROADING AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-202-AB	

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	NEW GREEN SQUARE T2M 90LED 525mA 4000K SINGLE ARM ON VICOLE ENLARGED BASE COLUMN
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
SL06	1749346.97	5946458.27	
SL07	1749373.35	5946479.47	
SL08	1749406.37	5946468.58	
SL09	1749426.95	5946495.23	
SL10	1749468.90	5946494.29	
SL11	1749487.93	5946522.05	
SL12	1749529.16	5946521.29	
SL13	1749550.30	5946548.01	
SL14	1749588.57	5946537.66	
SL15	1749621.75	5946547.25	
SL16	1749649.51	5946524.01	
SL17	1749684.88	5946534.24	
SL18	1749714.84	5946516.33	
SL19	1749746.58	5946536.54	
SL20	1749780.25	5946521.05	
SL21	1749805.68	5946545.12	
SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

- NOTES**
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  - ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE DG10, 30mm THICK.
  - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
  - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

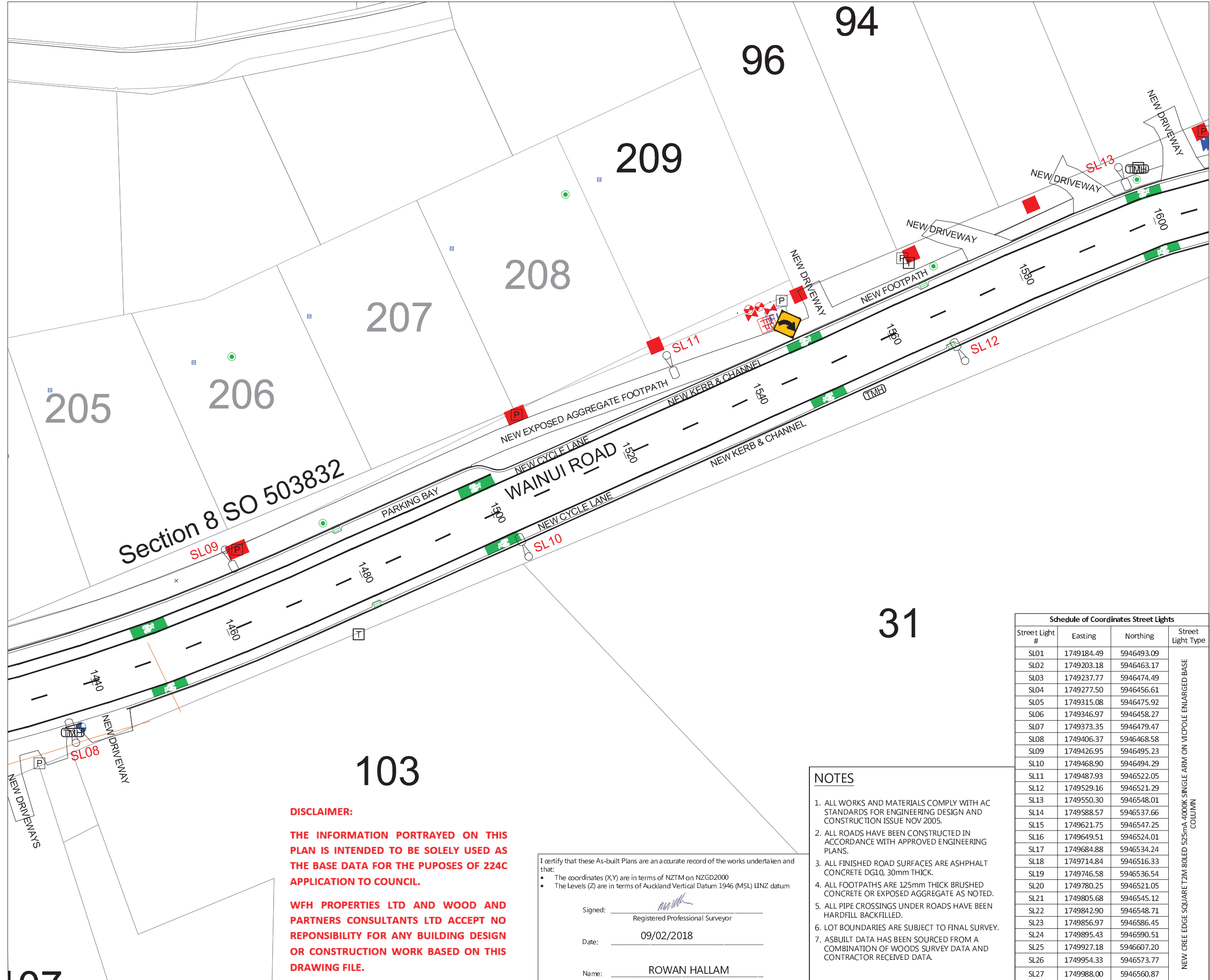
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Signed: Registered Professional Surveyor  
Date: 05/02/2018  
Name: ROWAN HALLAM

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LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PLINTH
	SPEED SIGN, RG 1
	ARROW SIGN, PW 17
	POWER BOX
	BOUNDARY KIT BOX
	SAFETY BARRIER
	TACTILE PAVERS

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**ROADING AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-203-AB	

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	NEW CREE SQUARE T2M 80LED 525mA 4000K SINGLE ARM ON VICOPOLE ENLARGED BASE COLUMN
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
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SL13	1749550.30	5946548.01	
SL14	1749588.57	5946537.66	
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SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

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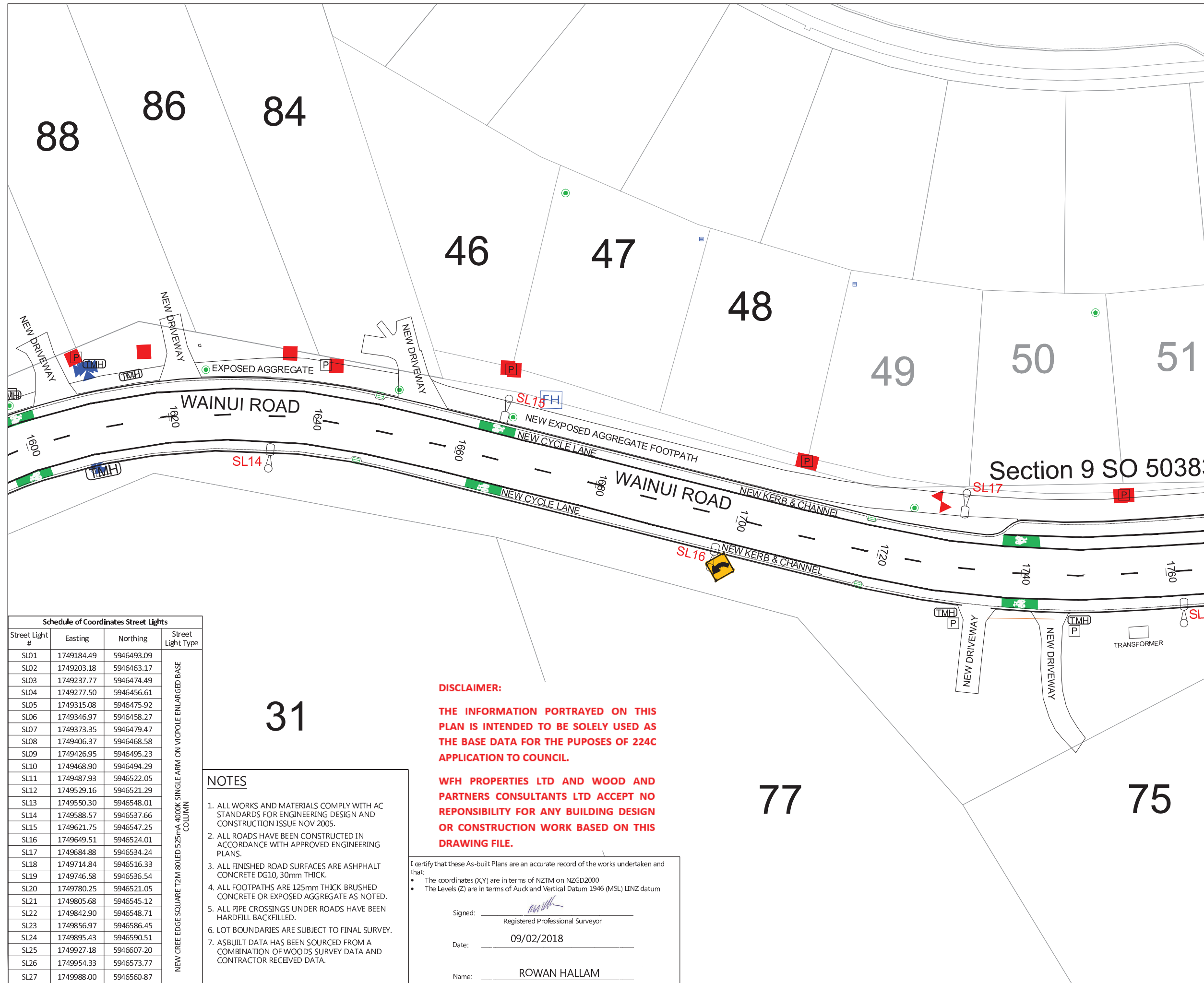
Signed: Registered Professional Surveyor  
 Date: 09/02/2018  
 Name: ROWAN HALLAM

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LEGEND	
	STREET LIGHT
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	CYCLE LANE BIKE SIGNS, RG 26
	SS ISOLATION VALVE
	SS FLUSHING POINT
	SS AIR VALVE
	WATER SLUICE VALVE
	WATER PEET VALVE
	WATER FIRE HYDRANT
	GAS METER
	TELECOMMUNICATIONS MANHOLE
	TELECOMMUNICATIONS PLINTH
	SPEED SIGN, RG 1
	ARROW SIGN, PW 17
	POWER BOX
	BOUNDARY KIT BOX
	SAFETY BARRIER
	TACTILE PAVERS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**ROADING AS-BUILT  
SHEET 5 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-204-AB	

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
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SL22	1749842.90	5946548.71	
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SL27	1749988.00	5946560.87	

NEW CREE EDGE SQUARE T2M 90LED 525mA 4000K SINGLE ARM ON VICPOLE ENLARGED BASE COLUMN

31

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- ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
- ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

**DISCLAIMER:**

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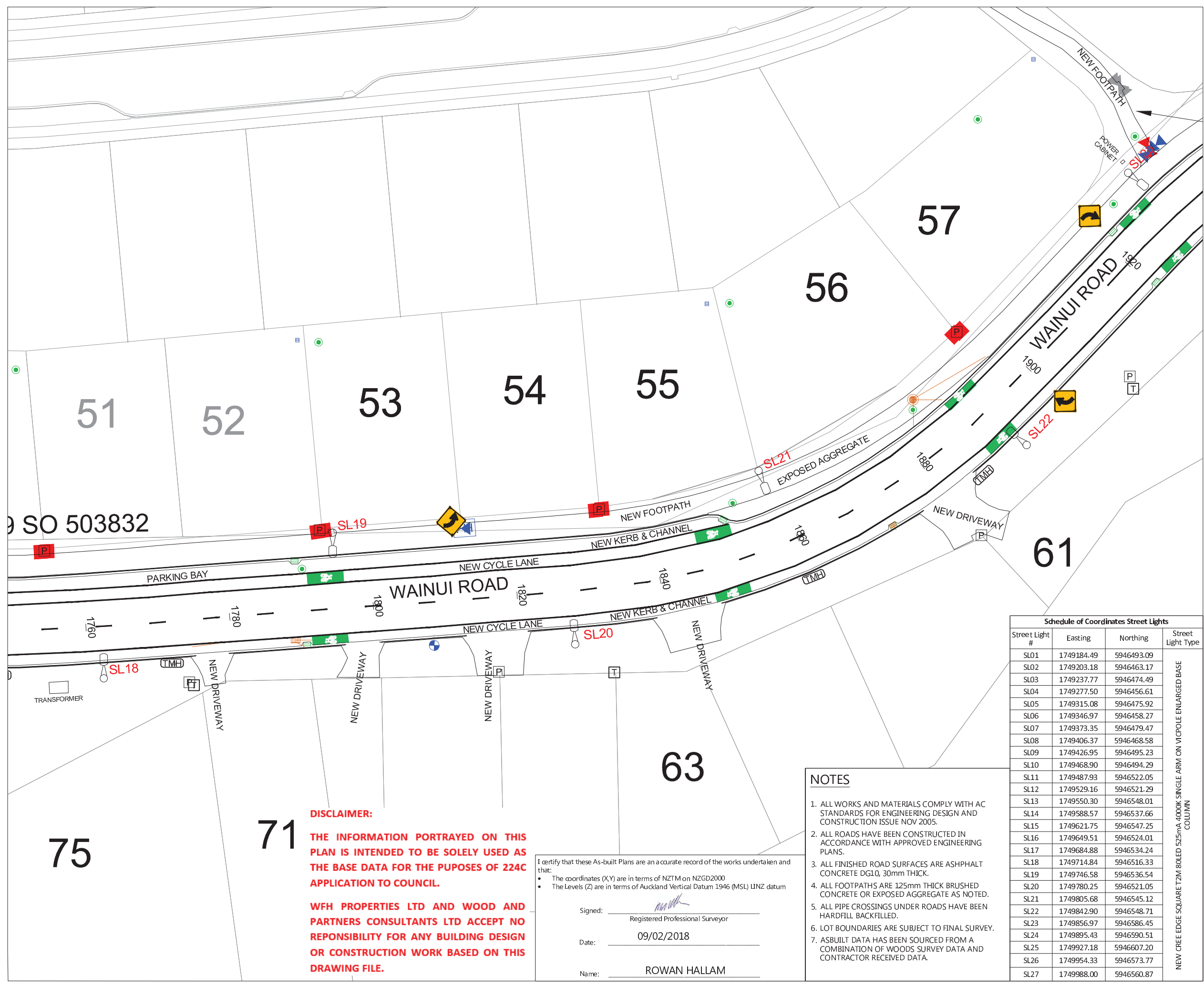
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 09/02/2018

Name: ROWAN HALLAM



**LEGEND**

- STREET LIGHT
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- CYCLE LANE BIKE SIGNS, RG 26
- SS ISOLATION VALVE
- SS FLUSHING POINT
- SS AIR VALVE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- GAS METER
- TELECOMMUNICATIONS MANHOLE
- TELECOMMUNICATIONS PLINTH
- SPEED SIGN, RG 1
- ARROW SIGN, PW 17
- POWER BOX
- BOUNDARY KIT BOX
- SAFETY BARRIER
- TACTILE PAVERS

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**ROADING AS-BUILT  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-205-AB	

**Schedule of Coordinates Street Lights**

Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
SL06	1749346.97	5946458.27	
SL07	1749373.35	5946479.47	
SL08	1749406.37	5946468.58	
SL09	1749426.95	5946495.23	
SL10	1749468.90	5946494.29	
SL11	1749487.93	5946522.05	
SL12	1749529.16	5946521.29	
SL13	1749550.30	5946548.01	
SL14	1749588.57	5946537.66	
SL15	1749621.75	5946547.25	
SL16	1749649.51	5946524.01	
SL17	1749684.88	5946534.24	
SL18	1749714.84	5946516.33	
SL19	1749746.58	5946536.54	
SL20	1749780.25	5946521.05	
SL21	1749805.68	5946545.12	
SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

NEW CREE SQUARE T2M 80LED 525mA 4000K SINGLE ARM ON VICOPOLE ENLARGED BASE COLUMN

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.
  - ALL ROADS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
  - ALL FINISHED ROAD SURFACES ARE ASPHALT CONCRETE DG10, 30mm THICK.
  - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS NOTED.
  - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED.
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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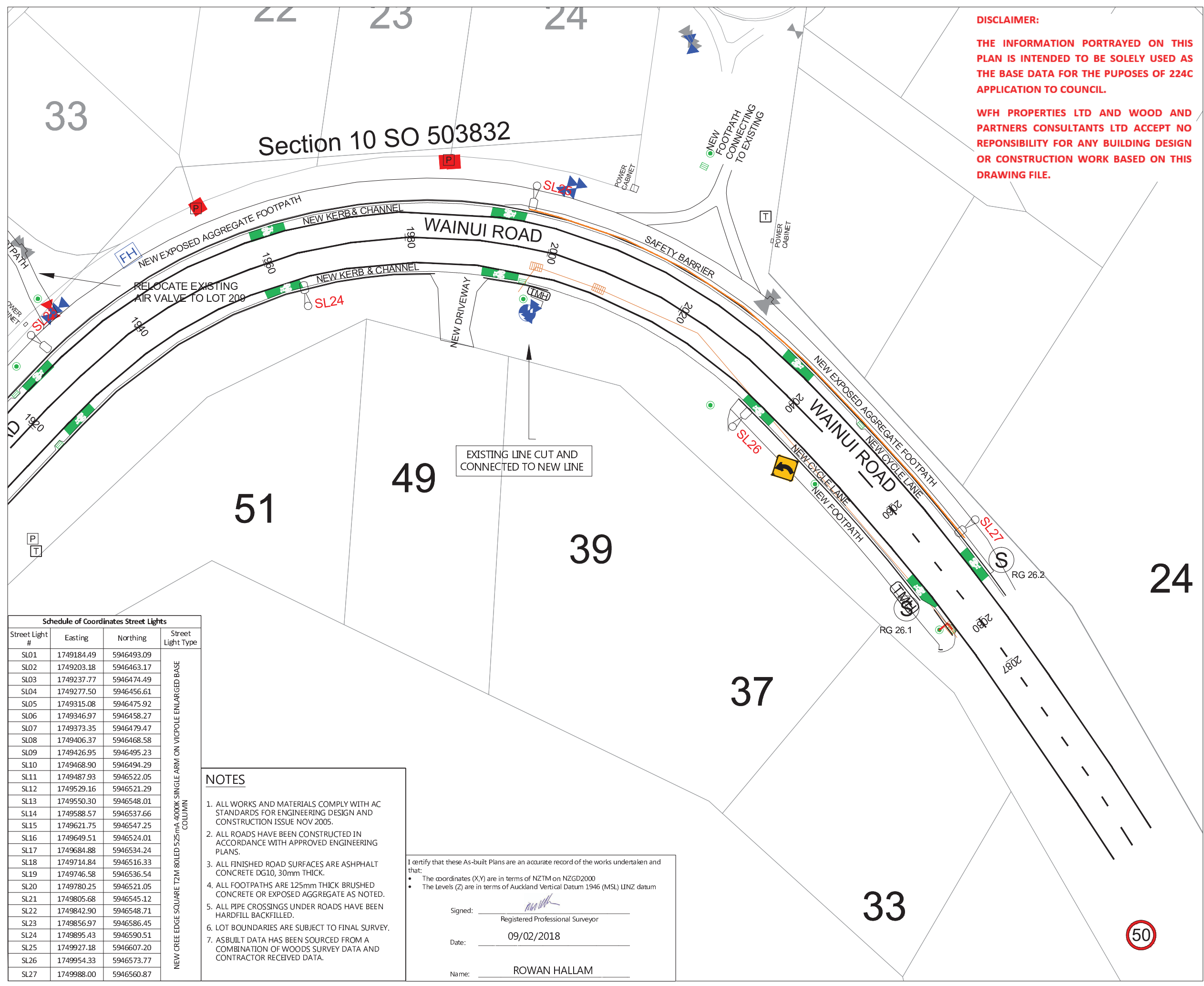
Signed: Registered Professional Surveyor  
 Date: 09/02/2018  
 Name: ROWAN HALLAM

**DISCLAIMER:**  
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**WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.**



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**LEGEND**

- STREET LIGHT
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- CYCLE LANE BIKE SIGNS, RG 26
- SS ISOLATION VALVE
- SS FLUSHING POINT
- SS AIR VALVE
- WATER SLUICE VALVE
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- WATER FIRE HYDRANT
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- TELECOMMUNICATIONS MANHOLE
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- SPEED SIGN, RG 1
- ARROW SIGN, PW 17
- POWER BOX
- BOUNDARY KIT BOX
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- TACTILE PAVERS

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KR	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**

**ROADING AS-BUILT  
 SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-207-AB	

**Schedule of Coordinates Street Lights**

Street Light #	Easting	Northing	Street Light Type
SL01	1749184.49	5946493.09	
SL02	1749203.18	5946463.17	
SL03	1749237.77	5946474.49	
SL04	1749277.50	5946456.61	
SL05	1749315.08	5946475.92	
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SL21	1749805.68	5946545.12	
SL22	1749842.90	5946548.71	
SL23	1749856.97	5946586.45	
SL24	1749895.43	5946590.51	
SL25	1749927.18	5946607.20	
SL26	1749954.33	5946573.77	
SL27	1749988.00	5946560.87	

NEW GREE EDGE SQUARE T2M 90LED 525mA 4000K SINGLE ARM ON VICPOLE ENLARGED BASE COLUMN

**NOTES**

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- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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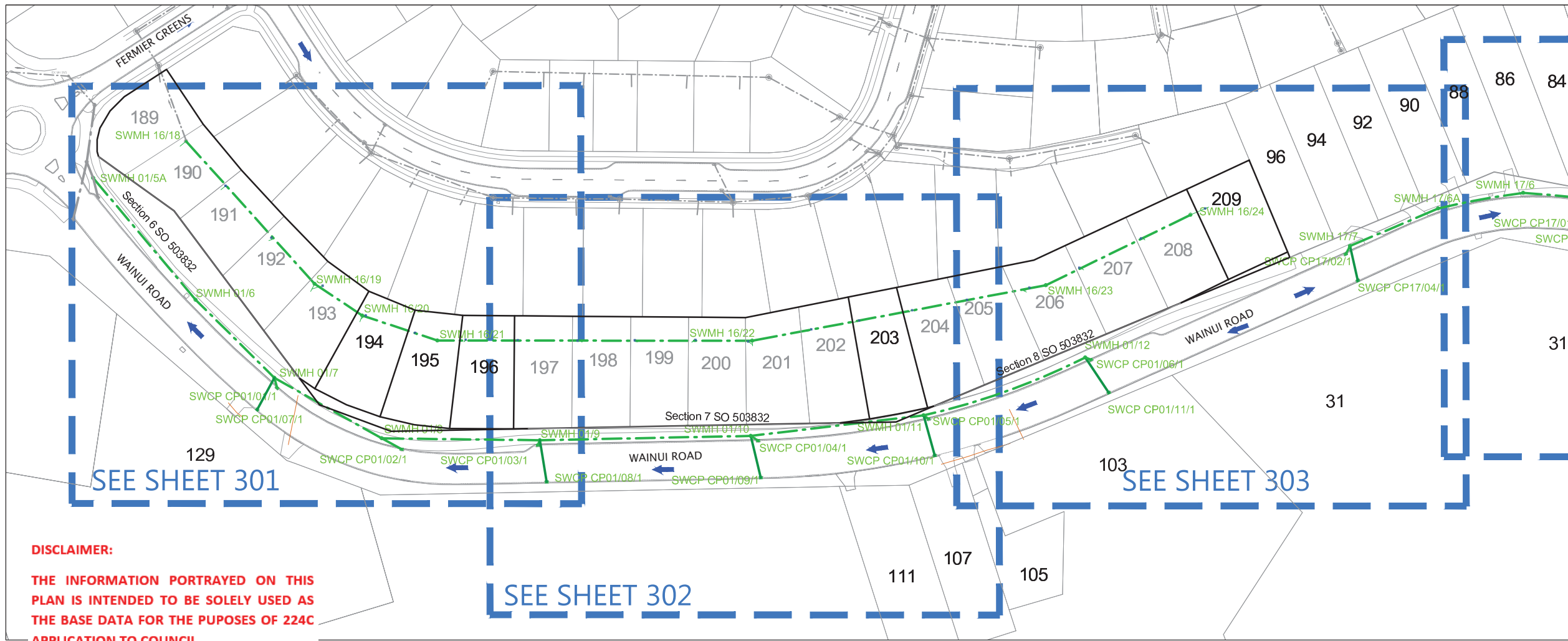
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Signed: Registered Professional Surveyor

Date: 09/02/2018

Name: ROWAN HALLAM



**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRJ PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS

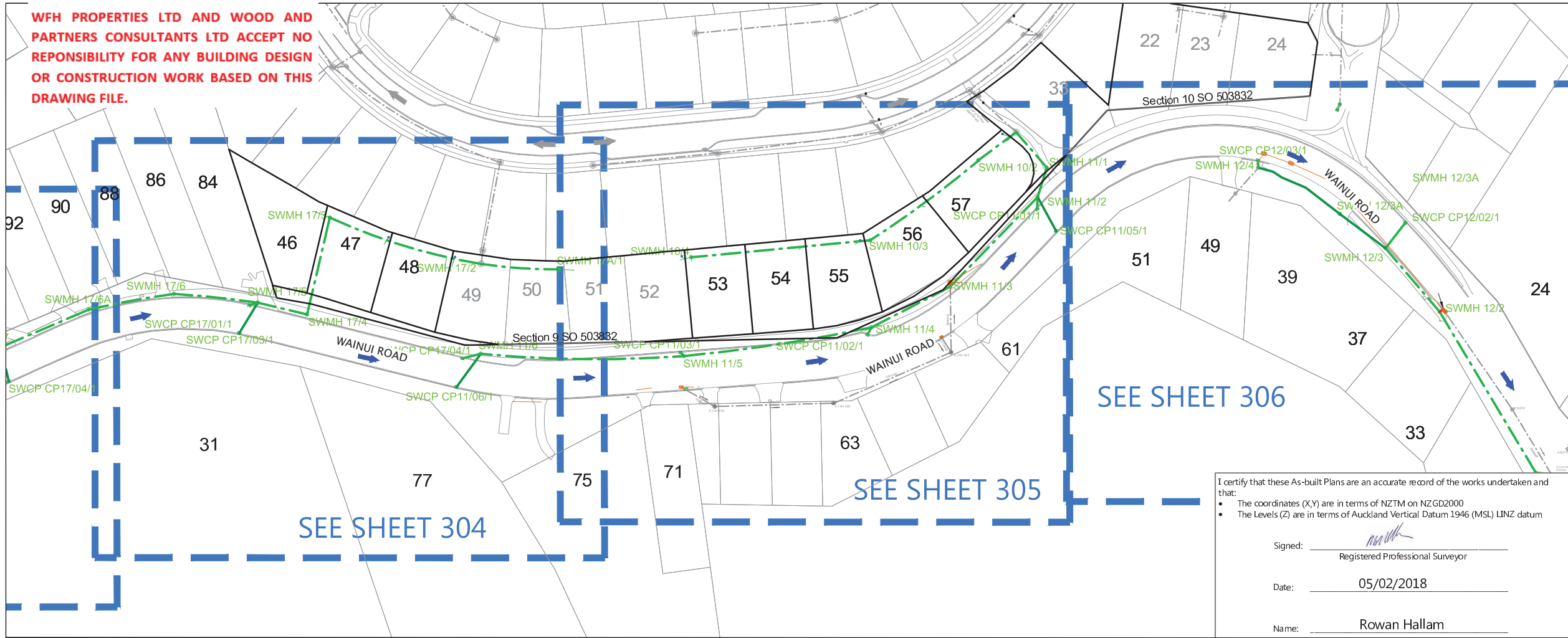
- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS.
  3. PIPE CROSSINGS ARE PE100 PN16 SDR11 POLYETHYLENE PIPES, CONSTRUCTED WITH 100mm THK (AT TOP OF PIPE) x 1.0m WIDE 30MPa CONCRETE CAPPING WITH 1 LAYER 665 MESH OVER CATCHPIT LEAD AND 1 LAYER ON SIDES (BETWEEN BACK OF KERBS). DIAMETER SHOWN ARE OUTSIDE DIAMETER. CONNECTIONS ARE AS PER WATERCARE DETAILS: DRAWING WW34.
  4. CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER REINFORCED CONCRETE PIPES ARE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
  5. ALL PIPE CROSSINGS UNDER ROADS, ACCESSWAYS AND LINE 16 HAVE BEEN HARDFILL BACKFILLED.
  6. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
  7. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mm $\phi$ .
  8. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  9. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

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



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Signed: \_\_\_\_\_  
 Registered Professional Surveyor

Date: 05/02/2018

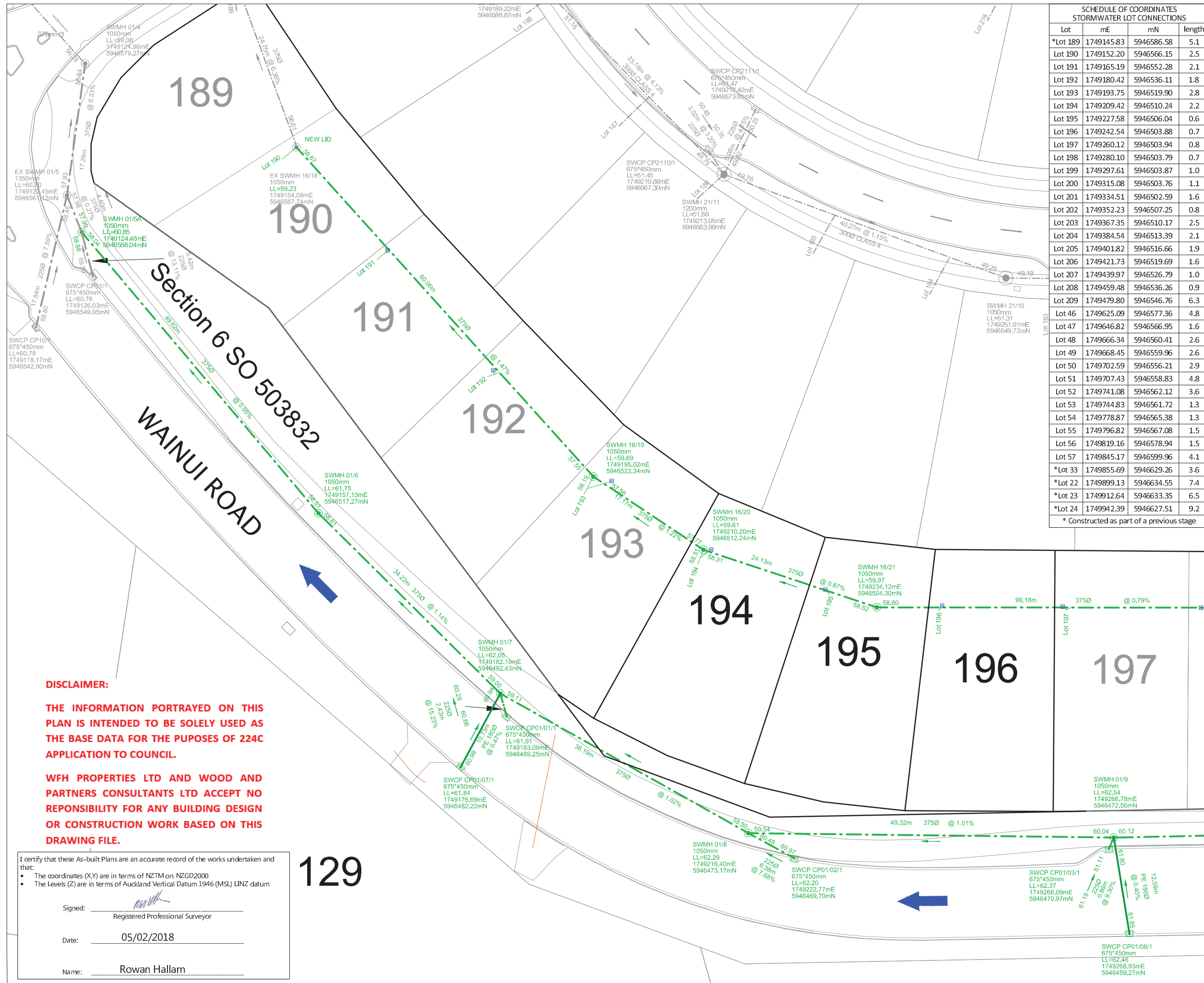
Name: Rowan Hallam



**MILLWATER WAINUI ROAD UPGRADE PART C**  
 STORMWATER AS-BUILT OVERALL-LAYOUT PLAN  
 SHEET 1 OF 7

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-300-AB	





SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot	mE	mN	length
*Lot 189	1749145.83	5946586.58	5.1
Lot 190	1749152.20	5946566.15	2.5
Lot 191	1749165.19	5946552.28	2.1
Lot 192	1749180.42	5946536.11	1.8
Lot 193	1749193.75	5946519.90	2.8
Lot 194	1749209.42	5946510.24	2.2
Lot 195	1749227.58	5946506.04	0.6
Lot 196	1749242.54	5946503.88	0.7
Lot 197	1749260.12	5946503.94	0.8
Lot 198	1749280.10	5946503.79	0.7
Lot 199	1749297.61	5946503.87	1.0
Lot 200	1749315.08	5946503.76	1.1
Lot 201	1749334.51	5946502.59	1.6
Lot 202	1749352.23	5946507.25	0.8
Lot 203	1749367.35	5946510.17	2.5
Lot 204	1749384.54	5946513.39	2.1
Lot 205	1749401.82	5946516.66	1.9
Lot 206	1749421.73	5946519.69	1.6
Lot 207	1749439.97	5946526.79	1.0
Lot 208	1749459.48	5946536.26	0.9
Lot 209	1749479.80	5946546.76	6.3
Lot 46	1749625.09	5946577.36	4.8
Lot 47	1749646.82	5946566.95	1.6
Lot 48	1749666.34	5946560.41	2.6
Lot 49	1749668.45	5946559.96	2.6
Lot 50	1749702.59	5946556.21	2.9
Lot 51	1749707.43	5946558.83	4.8
Lot 52	1749741.08	5946562.12	3.6
Lot 53	1749744.83	5946561.72	1.3
Lot 54	1749778.87	5946565.38	1.3
Lot 55	1749796.82	5946567.08	1.5
Lot 56	1749819.16	5946578.94	1.5
Lot 57	1749845.17	5946599.96	4.1
*Lot 33	1749855.69	5946629.26	3.6
*Lot 22	1749899.13	5946634.55	7.4
*Lot 23	1749912.64	5946633.35	6.5
*Lot 24	1749942.39	5946627.51	9.2

\* Constructed as part of a previous stage

**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRI PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS.
  - PIPE CROSSINGS ARE PE100 PN16 SDR11 POLYETHYLENE PIPES, CONSTRUCTED WITH 100mm THK (AT TOP OF PIPE) x 1.0m WIDE 30MPa CONCRETE CAPPING WITH 1 LAYER 665 MESH OVER CATCHPIT LEAD AND 1 LAYER ON SIDES (BETWEEN BACK OF KERBS). DIAMETER SHOWN ARE OUTSIDE DIAMETER. CONNECTIONS ARE AS PER WATERCARE DETAILS: DRAWING WW34.
  - CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER REINFORCED CONCRETE PIPES ARE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
  - ALL PIPE CROSSINGS UNDER ROADS, ACCESSWAYS AND LINE 16 HAVE BEEN HARDFILL BACKFILLED.
  - ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**STORMWATER AS-BUILT  
SHEET 2 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-301-AB	

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Signed: \_\_\_\_\_  
Registered Professional Surveyor

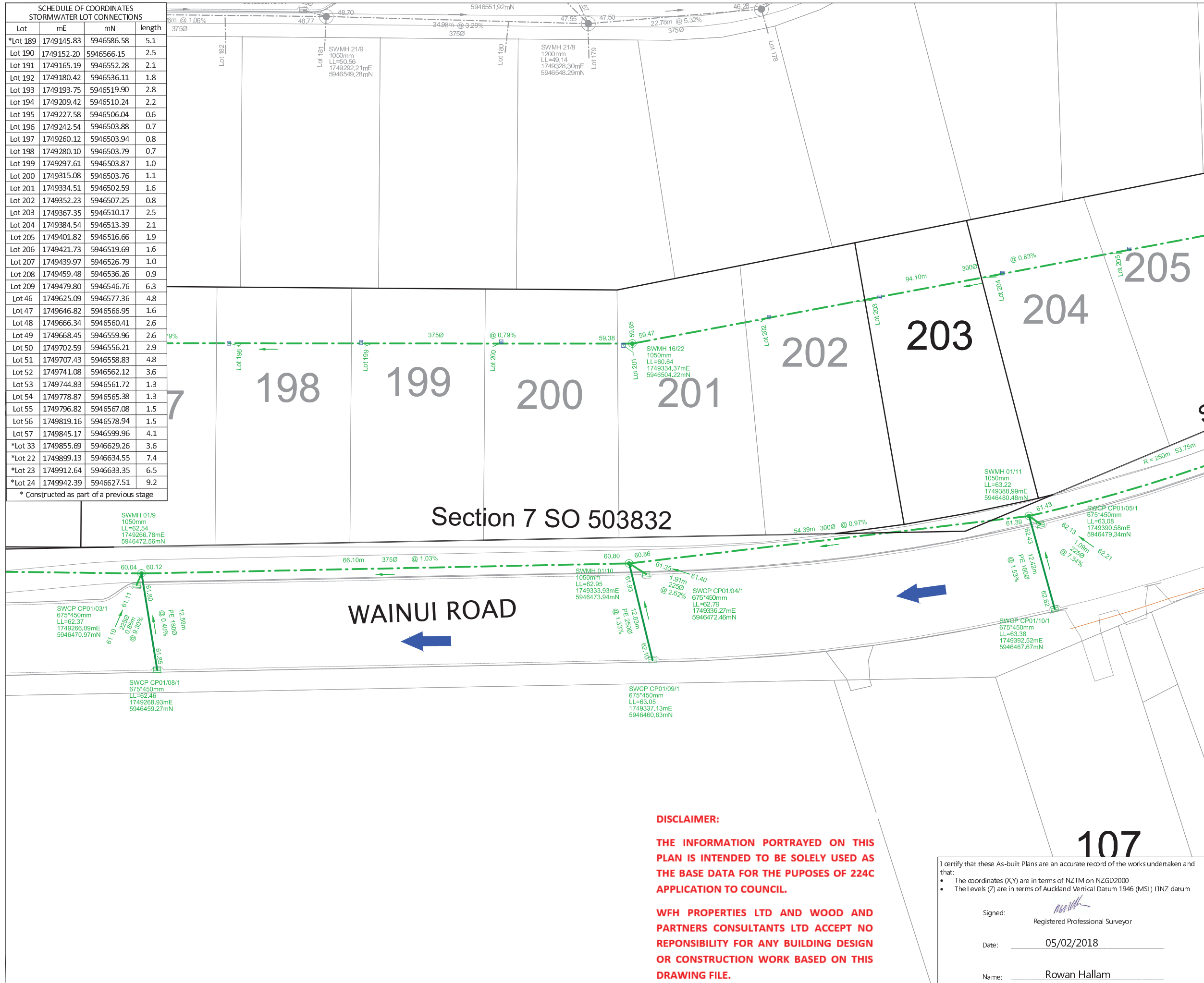
Date: 05/02/2018

Name: Rowan Hallam

129



SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot	mE	mN	length
*Lot 189	1749145.83	5946586.58	5.1
Lot 190	1749152.20	5946566.15	2.5
Lot 191	1749165.19	5946552.28	2.1
Lot 192	1749180.42	5946536.11	1.8
Lot 193	1749193.75	5946519.90	2.8
Lot 194	1749209.42	5946510.24	2.2
Lot 195	1749227.58	5946506.04	0.6
Lot 196	1749242.54	5946503.88	0.7
Lot 197	1749260.12	5946503.94	0.8
Lot 198	1749280.10	5946503.79	0.7
Lot 199	1749297.61	5946503.87	1.0
Lot 200	1749315.08	5946503.76	1.1
Lot 201	1749334.51	5946502.59	1.6
Lot 202	1749352.23	5946507.25	0.8
Lot 203	1749367.35	5946510.17	2.5
Lot 204	1749384.54	5946513.39	2.1
Lot 205	1749401.82	5946516.66	1.9
Lot 206	1749421.73	5946519.69	1.6
Lot 207	1749439.97	5946526.79	1.0
Lot 208	1749459.48	5946536.26	0.9
Lot 209	1749479.80	5946546.76	6.3
Lot 46	1749625.09	5946577.36	4.8
Lot 47	1749646.82	5946566.95	1.6
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Lot 52	1749741.08	5946562.12	3.6
Lot 53	1749744.83	5946561.72	1.3
Lot 54	1749778.87	5946565.38	1.3
Lot 55	1749796.82	5946567.08	1.5
Lot 56	1749819.16	5946578.94	1.5
Lot 57	1749845.17	5946599.96	4.1
*Lot 33	1749855.69	5946629.26	3.6
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*Lot 23	1749912.64	5946633.35	6.5
*Lot 24	1749942.39	5946627.51	9.2



LEGEND	
STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER FIELD CESSPIT	
OVERLAND FLOW	
RCRRJ PIPE	
PE100 PN12.5 SDR11 PIPE	
EXISTING STORMWATER	
SUBSOIL DRAINAGE	
REMOVED STORMWATER ASSETS	

- NOTES**
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**STORMWATER AS-BUILT  
SHEET 3 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-302-AB	

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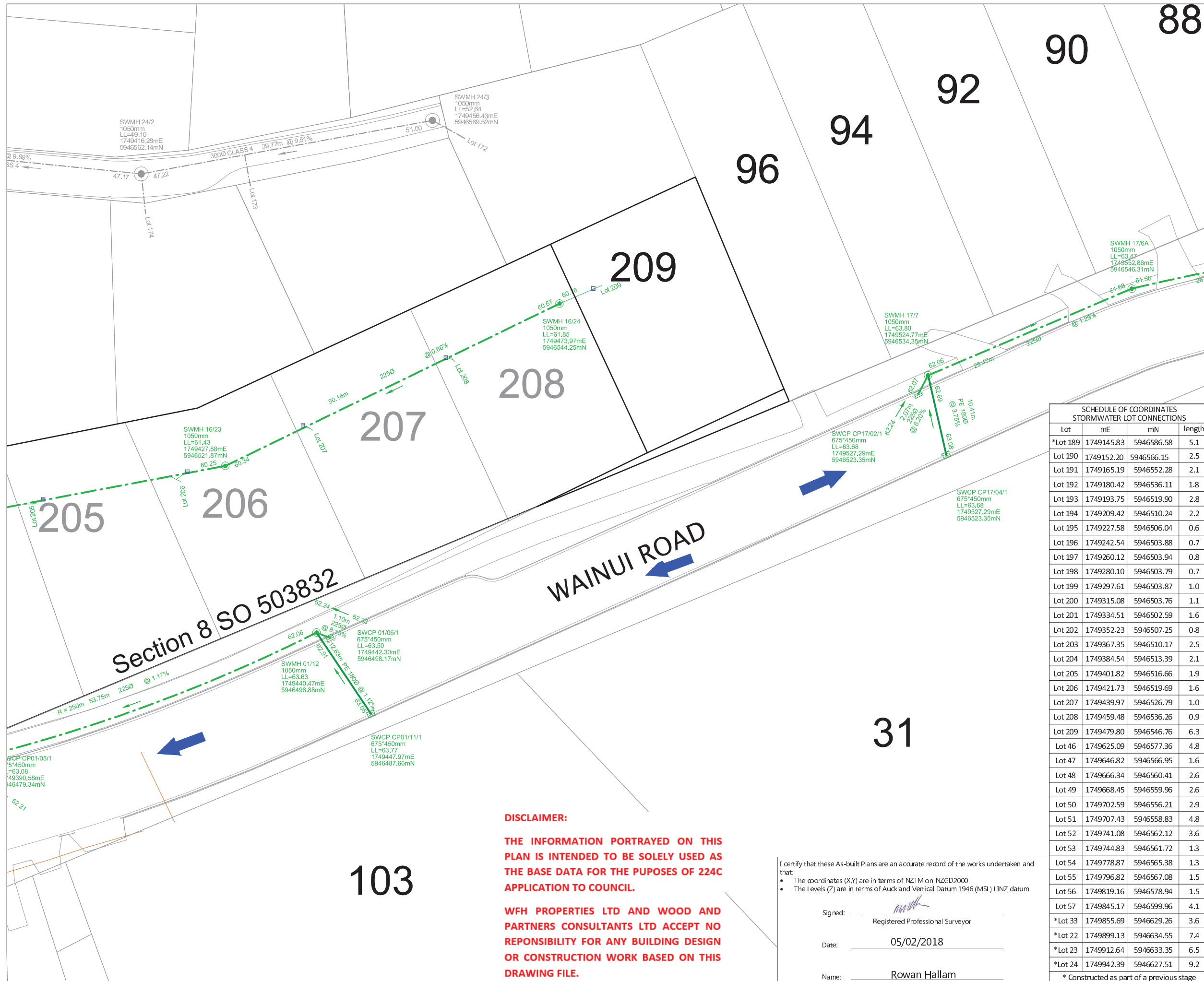
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Signed: Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam





**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRJ PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS.
  - PIPE CROSSINGS ARE PE100 PN16 SDR11 POLYETHYLENE PIPES, CONSTRUCTED WITH 100mm THK (AT TOP OF PIPE) x 1.0m WIDE 30MPa CONCRETE CAPPING WITH 1 LAYER 665 MESH OVER CATCHPIT LEAD AND 1 LAYER ON SIDES (BETWEEN BACK OF KERBS). DIAMETER SHOWN ARE OUTSIDE DIAMETER. CONNECTIONS ARE AS PER WATERCARE DETAILS: DRAWING WW34.
  - CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER REINFORCED CONCRETE PIPES ARE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
  - ALL PIPE CROSSINGS UNDER ROADS, ACCESSWAYS AND LINE 16 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.
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**SCHEDULE OF COORDINATES  
STORMWATER LOT CONNECTIONS**

Lot	mE	mN	length
*Lot 189	1749145.83	5946586.58	5.1
Lot 190	1749152.20	5946566.15	2.5
Lot 191	1749165.19	5946552.28	2.1
Lot 192	1749180.42	5946536.11	1.8
Lot 193	1749193.75	5946519.90	2.8
Lot 194	1749209.42	5946510.24	2.2
Lot 195	1749227.58	5946506.04	0.6
Lot 196	1749242.54	5946503.88	0.7
Lot 197	1749260.12	5946503.94	0.8
Lot 198	1749280.10	5946503.79	0.7
Lot 199	1749297.61	5946503.87	1.0
Lot 200	1749315.08	5946503.76	1.1
Lot 201	1749334.51	5946502.59	1.6
Lot 202	1749352.23	5946507.25	0.8
Lot 203	1749367.35	5946510.17	2.5
Lot 204	1749384.54	5946513.39	2.1
Lot 205	1749401.82	5946516.66	1.9
Lot 206	1749421.73	5946519.69	1.6
Lot 207	1749439.97	5946526.79	1.0
Lot 208	1749459.48	5946536.26	0.9
Lot 209	1749479.80	5946546.76	6.3
Lot 46	1749625.09	5946577.36	4.8
Lot 47	1749646.82	5946566.95	1.6
Lot 48	1749666.34	5946560.41	2.6
Lot 49	1749668.45	5946559.96	2.6
Lot 50	1749702.59	5946556.21	2.9
Lot 51	1749707.43	5946558.83	4.8
Lot 52	1749741.08	5946562.12	3.6
Lot 53	1749744.83	5946561.72	1.3
Lot 54	1749778.87	5946565.38	1.3
Lot 55	1749796.82	5946567.08	1.5
Lot 56	1749819.16	5946578.94	1.5
Lot 57	1749845.17	5946599.96	4.1
*Lot 33	1749855.69	5946629.26	3.6
*Lot 22	1749899.13	5946634.55	7.4
*Lot 23	1749912.64	5946633.35	6.5
*Lot 24	1749942.39	5946627.51	9.2

**REVISION DETAILS**

NO	ISSUED FOR INFORMATION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**STORMWATER AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-303-AB	

**DISCLAIMER:**

**THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.**

**WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD 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:

- 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

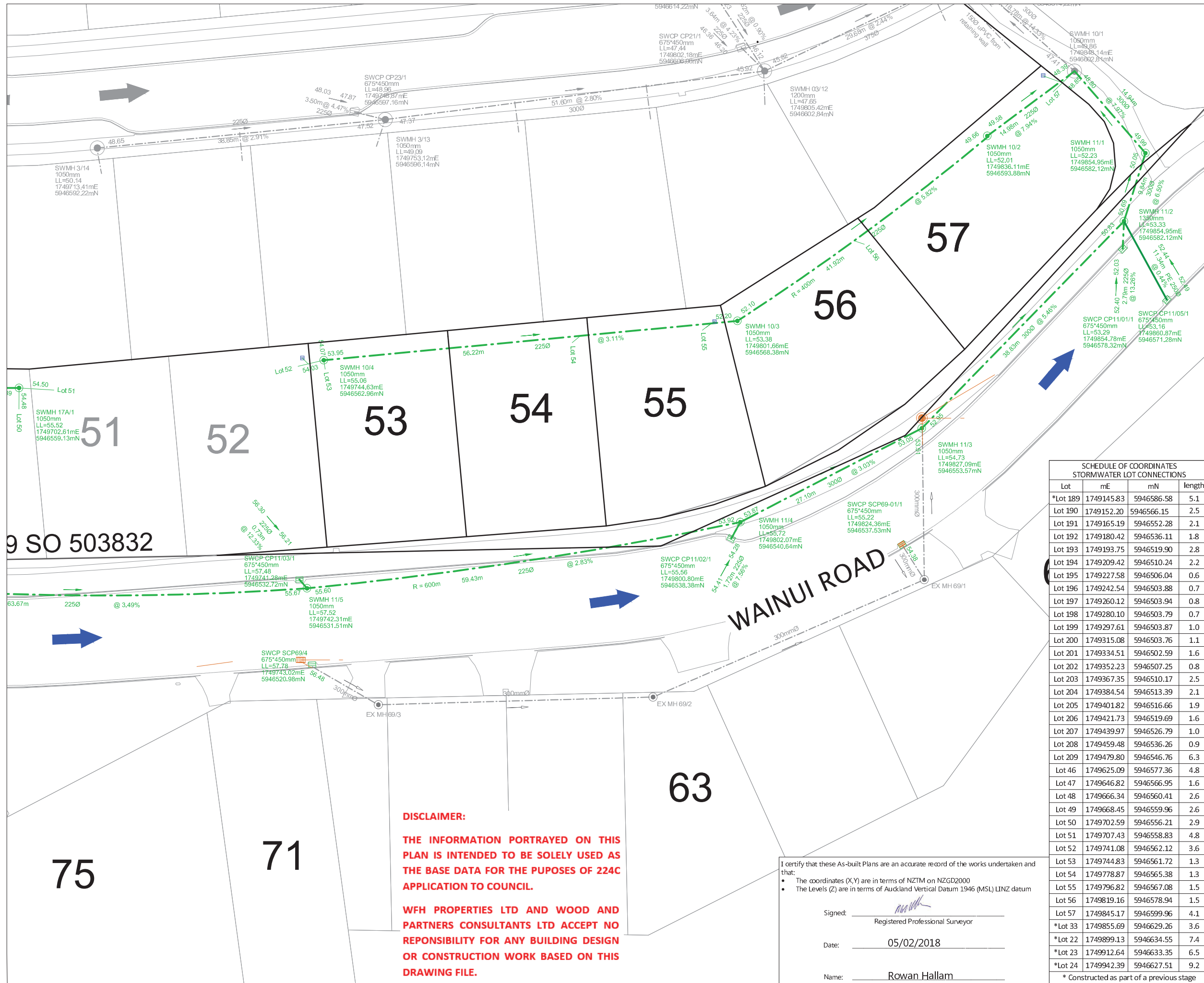
Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam







**LEGEND**

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRJ PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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  - ALL PIPE CROSSINGS UNDER ROADS, ACCESSWAYS AND LINE 16 HAVE BEEN HARD FILL BACKFILLED.
  - ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
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**SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS**

Lot	mE	mN	length
*Lot 189	1749145.83	5946586.58	5.1
Lot 190	1749152.20	5946566.15	2.5
Lot 191	1749165.19	5946552.28	2.1
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Lot 193	1749193.75	5946519.90	2.8
Lot 194	1749209.42	5946510.24	2.2
Lot 195	1749227.58	5946506.04	0.6
Lot 196	1749242.54	5946503.88	0.7
Lot 197	1749260.12	5946503.94	0.8
Lot 198	1749280.10	5946503.79	0.7
Lot 199	1749297.61	5946503.87	1.0
Lot 200	1749315.08	5946503.76	1.1
Lot 201	1749334.51	5946502.59	1.6
Lot 202	1749352.23	5946507.25	0.8
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*Lot 22	1749899.13	5946634.55	7.4
*Lot 23	1749912.64	5946633.35	6.5
*Lot 24	1749942.39	5946627.51	9.2

\* Constructed as part of a previous stage

**REVISION DETAILS**

NO	ISSUED FOR INFORMATION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**STORMWATER AS-BUILT  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-305-AB	

**DISCLAIMER:**

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

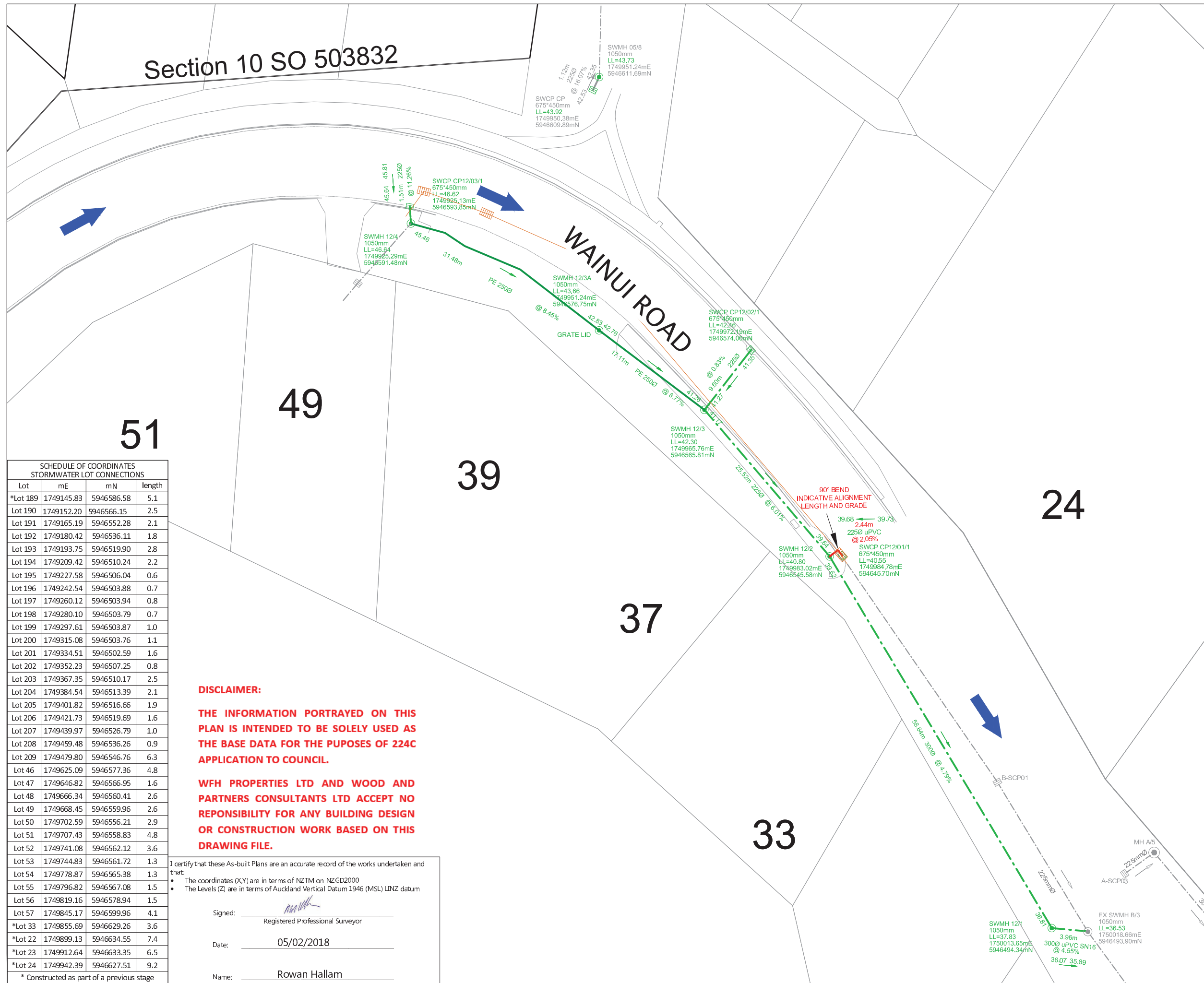
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

# Section 10 SO 503832



### LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER FIELD CESSPIT
- OVERLAND FLOW
- RCRRJ PIPE
- PE100 PN12.5 SDR11 PIPE
- EXISTING STORMWATER
- SUBSOIL DRAINAGE
- REMOVED STORMWATER ASSETS

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  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
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#### SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS

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Lot 195	1749227.58	5946506.04	0.6
Lot 196	1749242.54	5946503.88	0.7
Lot 197	1749260.12	5946503.94	0.8
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Lot 199	1749297.61	5946503.87	1.0
Lot 200	1749315.08	5946503.76	1.1
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Lot 53	1749744.83	5946561.72	1.3
Lot 54	1749778.87	5946565.38	1.3
Lot 55	1749796.82	5946567.08	1.5
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Lot 57	1749845.17	5946599.96	4.1
*Lot 33	1749855.69	5946629.26	3.6
*Lot 22	1749899.13	5946634.55	7.4
*Lot 23	1749912.64	5946633.35	6.5
*Lot 24	1749942.39	5946627.51	9.2

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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: 05/02/2018

Name: Rowan Hallam

#### REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

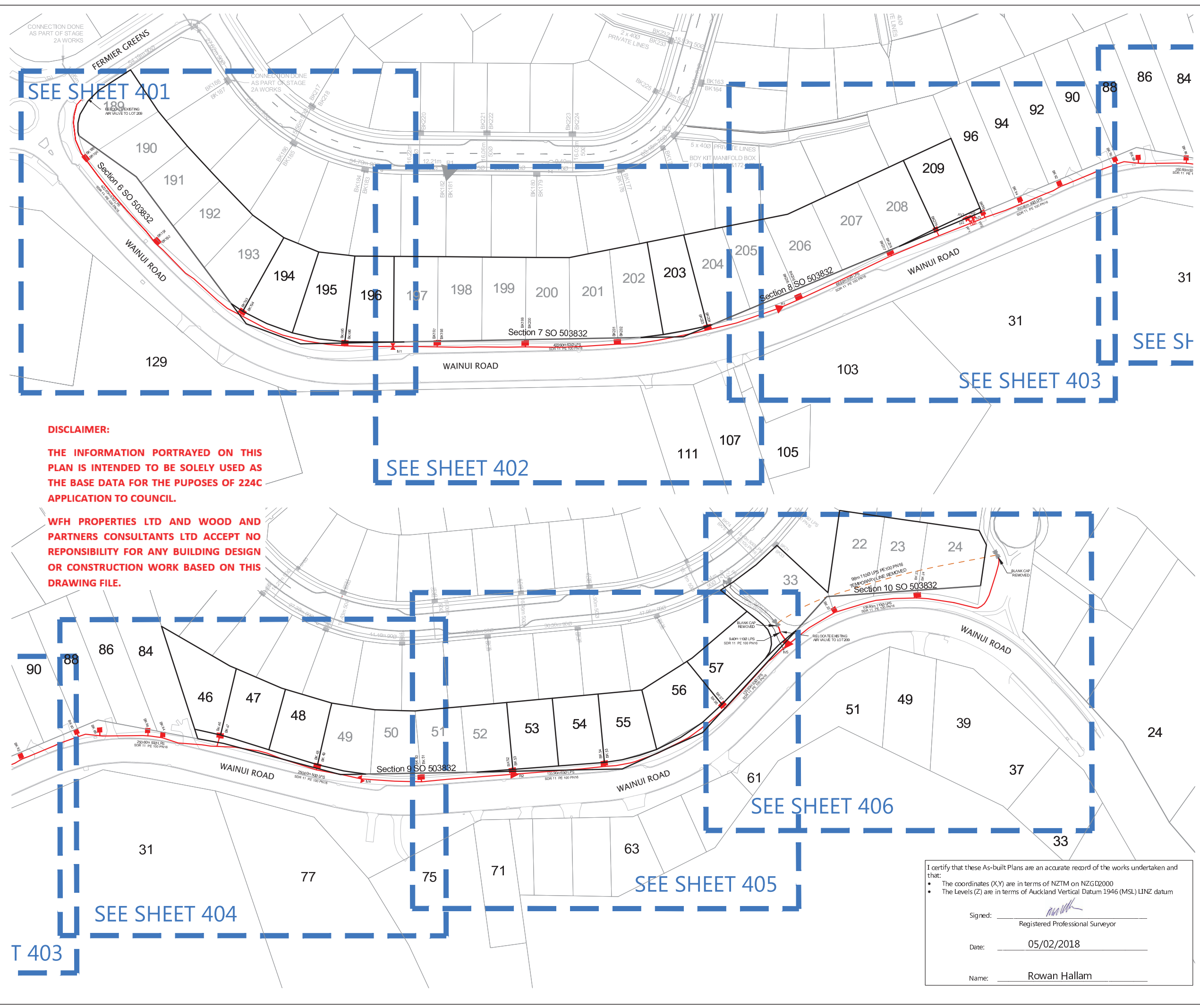
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

## MILLWATER WAINUI ROAD UPGRADE PART C

### STORMWATER AS-BUILT SHEET 7 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-306-AB	





**LEGEND**

BK60	BOUNDARY KIT
IV	ISOLATION VALVE
FP	FLUSHING POINT
AV	AIR VALVE
R	REDUCER
(Red line)	LOW PRESSURE SEWER
(Grey line)	EXISTING LOW PRESSURE SEWER

- NOTES**
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
  2. ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.
  3. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.
  4. ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
  5. PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
  6. LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETER
  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.

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**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

WASTEWATER ASBUILT PLAN  
OVERALL LAYOUT  
SHEET 1 OF 7

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: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

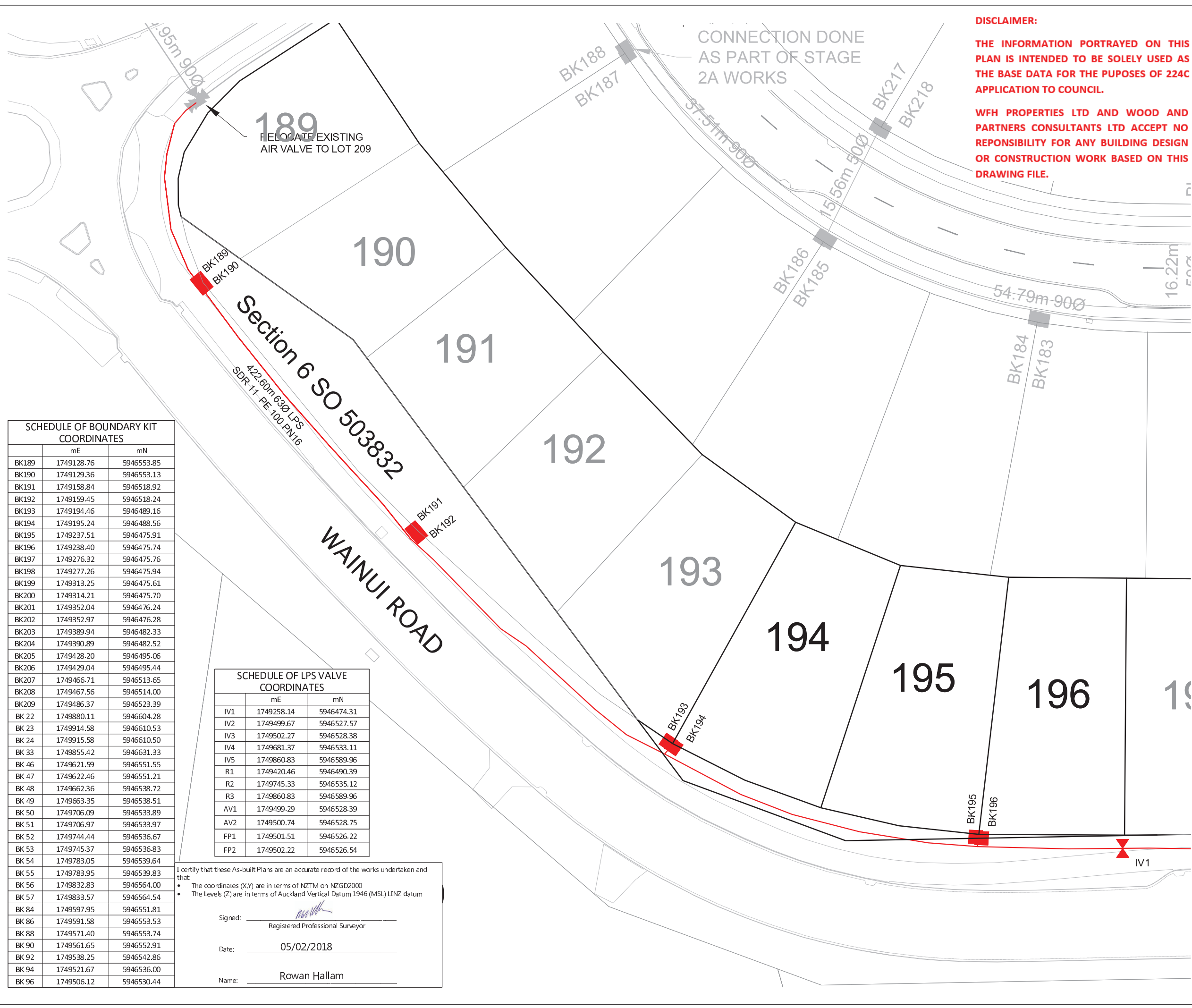
STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-400-AB	



**DISCLAIMER:**

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WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.



**LEGEND**

BK60	BOUNDARY KIT
IV	ISOLATION VALVE
FP	FLUSHING POINT
AV	AIR VALVE
R	REDUCER
(Red line)	LOW PRESSURE SEWER
(Grey line)	EXISTING LOW PRESSURE SEWER

- NOTES**
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  - ALL PIPE BEDDING COMPLY WITH AC STANDARD DETAIL DRAWINGS 18000 SHEET 4.4 & SHEET 4.6 UNLESS OTHERWISE NOTED.
  - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED. ALL LPS ROAD CROSSINGS ARE THROUGH DUCTS.
  - ALL LPS BOUNDARY KIT CONNECTIONS TO MAIN LINES ARE 50mm Ø.
  - PIPE TYPE SDR 11, PE100 PN16 UNLESS OTHERWISE NOTED.
  - LPS PIPE SIZE SHOWN ARE EXTERNAL DIAMETER
  - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**SCHEDULE OF BOUNDARY KIT COORDINATES**

	mE	mN
BK189	1749128.76	5946553.85
BK190	1749129.36	5946553.13
BK191	1749158.84	5946518.92
BK192	1749159.45	5946518.24
BK193	1749194.46	5946489.16
BK194	1749195.24	5946488.56
BK195	1749237.51	5946475.91
BK196	1749238.40	5946475.74
BK197	1749276.32	5946475.76
BK198	1749277.26	5946475.94
BK199	1749313.25	5946475.61
BK200	1749314.21	5946475.70
BK201	1749352.04	5946476.24
BK202	1749352.97	5946476.28
BK203	1749389.94	5946482.33
BK204	1749390.89	5946482.52
BK205	1749428.20	5946495.06
BK206	1749429.04	5946495.44
BK207	1749466.71	5946513.65
BK208	1749467.56	5946514.00
BK209	1749486.37	5946523.39
BK 22	1749880.11	5946604.28
BK 23	1749914.58	5946610.53
BK 24	1749915.58	5946610.50
BK 33	1749855.42	5946631.33
BK 46	1749621.59	5946551.55
BK 47	1749622.46	5946551.21
BK 48	1749662.36	5946538.72
BK 49	1749663.35	5946538.51
BK 50	1749706.09	5946533.89
BK 51	1749706.97	5946533.97
BK 52	1749744.44	5946536.67
BK 53	1749745.37	5946536.83
BK 54	1749783.05	5946539.64
BK 55	1749783.95	5946539.83
BK 56	1749832.83	5946564.00
BK 57	1749833.57	5946564.54
BK 84	1749597.95	5946551.81
BK 86	1749591.58	5946553.53
BK 88	1749571.40	5946553.74
BK 90	1749561.65	5946552.91
BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

**SCHEDULE OF LPS VALVE COORDINATES**

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

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Signed: *Rowan Hallam*  
 Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



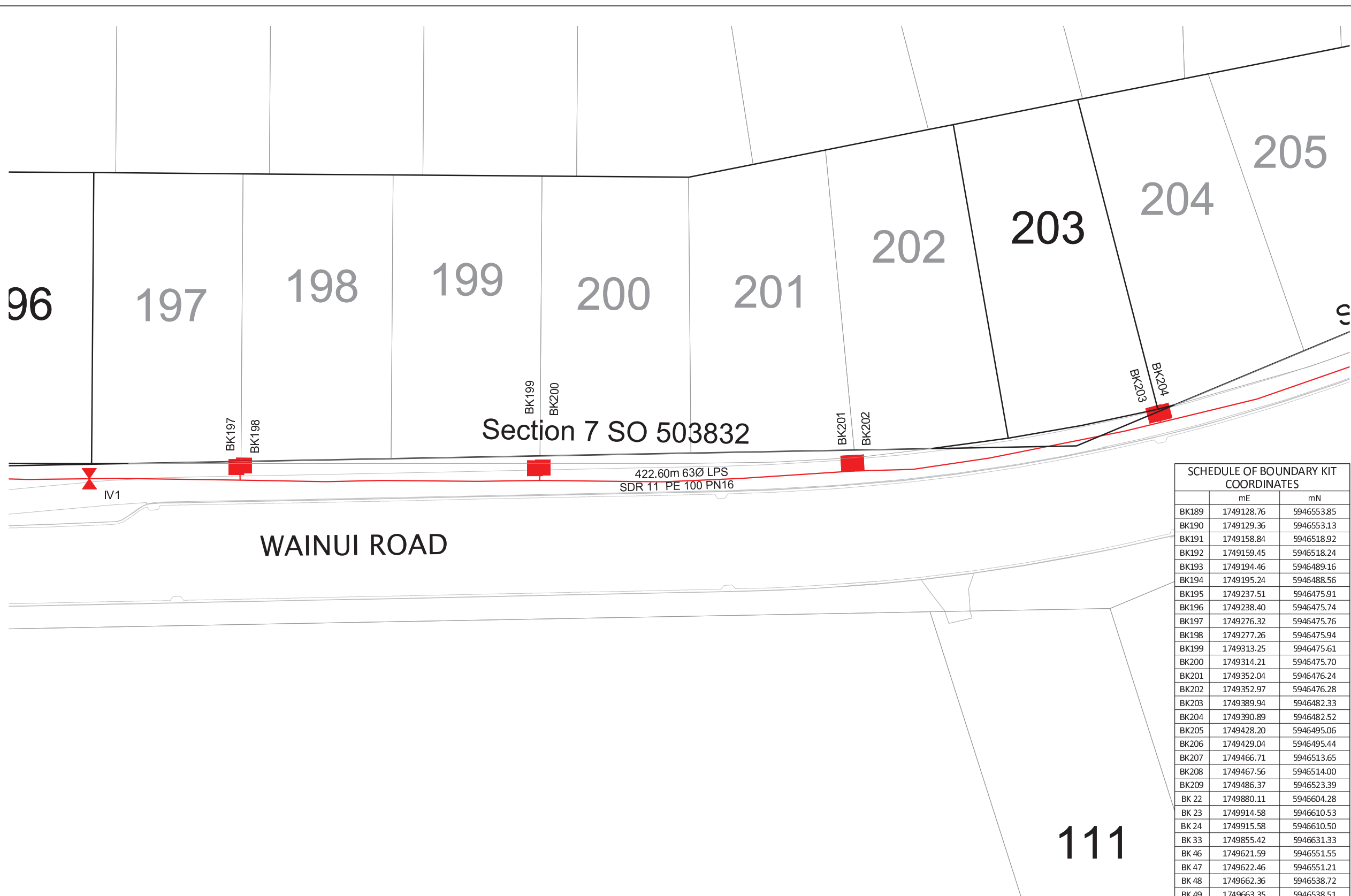
**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WASTEWATER ASBUILT PLAN  
SHEET 2 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-401-AB	

Document No. K133726 - WAINUI ROAD UPGRADE PART C PROJECT DATA/ACAD DRAWINGS/SURVEY/ASBUILT/33726-00-401-AB LPS.DWG





LEGEND	
BK60 ■	BOUNDARY KIT
IV ◀▶	ISOLATION VALVE
FP □	FLUSHING POINT
AV ◉	AIR VALVE
R ▶▶	REDUCER
—	LOW PRESSURE SEWER
- - -	EXISTING LOW PRESSURE SEWER

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

Section 7 SO 503832

422.60m 63Ø LPS  
SDR 11 PE 100 PN16

WAINUI ROAD

SCHEDULE OF BOUNDARY KIT COORDINATES

	mE	mN
BK189	1749128.76	5946553.85
BK190	1749129.36	5946553.13
BK191	1749158.84	5946518.92
BK192	1749159.45	5946518.24
BK193	1749194.46	5946489.16
BK194	1749195.24	5946488.56
BK195	1749237.51	5946475.91
BK196	1749238.40	5946475.74
BK197	1749276.32	5946475.76
BK198	1749277.26	5946475.94
BK199	1749313.25	5946475.61
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BK203	1749389.94	5946482.33
BK204	1749390.89	5946482.52
BK205	1749428.20	5946495.06
BK206	1749429.04	5946495.44
BK207	1749466.71	5946513.65
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BK 23	1749914.58	5946610.53
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BK 33	1749855.42	5946631.33
BK 46	1749621.59	5946551.55
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BK 48	1749662.36	5946538.72
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BK 86	1749591.58	5946553.53
BK 88	1749571.40	5946553.74
BK 90	1749561.65	5946552.91
BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

111

SCHEDULE OF LPS VALVE COORDINATES

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

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

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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

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REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

MILLWATER  
WAINUI ROAD UPGRADE  
PART C

WASTEWATER ASBUILT PLAN  
SHEET 3 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-402-AB	



**LEGEND**

- BK60 ■ BOUNDARY KIT
- IV ■ ISOLATION VALVE
- FP ■ FLUSHING POINT
- AV ■ AIR VALVE
- R ■ REDUCER
- LOW PRESSURE SEWER
- EXISTING LOW PRESSURE SEWER

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BK190	1749129.36	5946553.13
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BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

**SCHEDULE OF LPS VALVE COORDINATES**

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
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AV1	1749499.29	5946528.39
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**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WASTEWATER ASBUILT PLAN  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-403-AB	

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

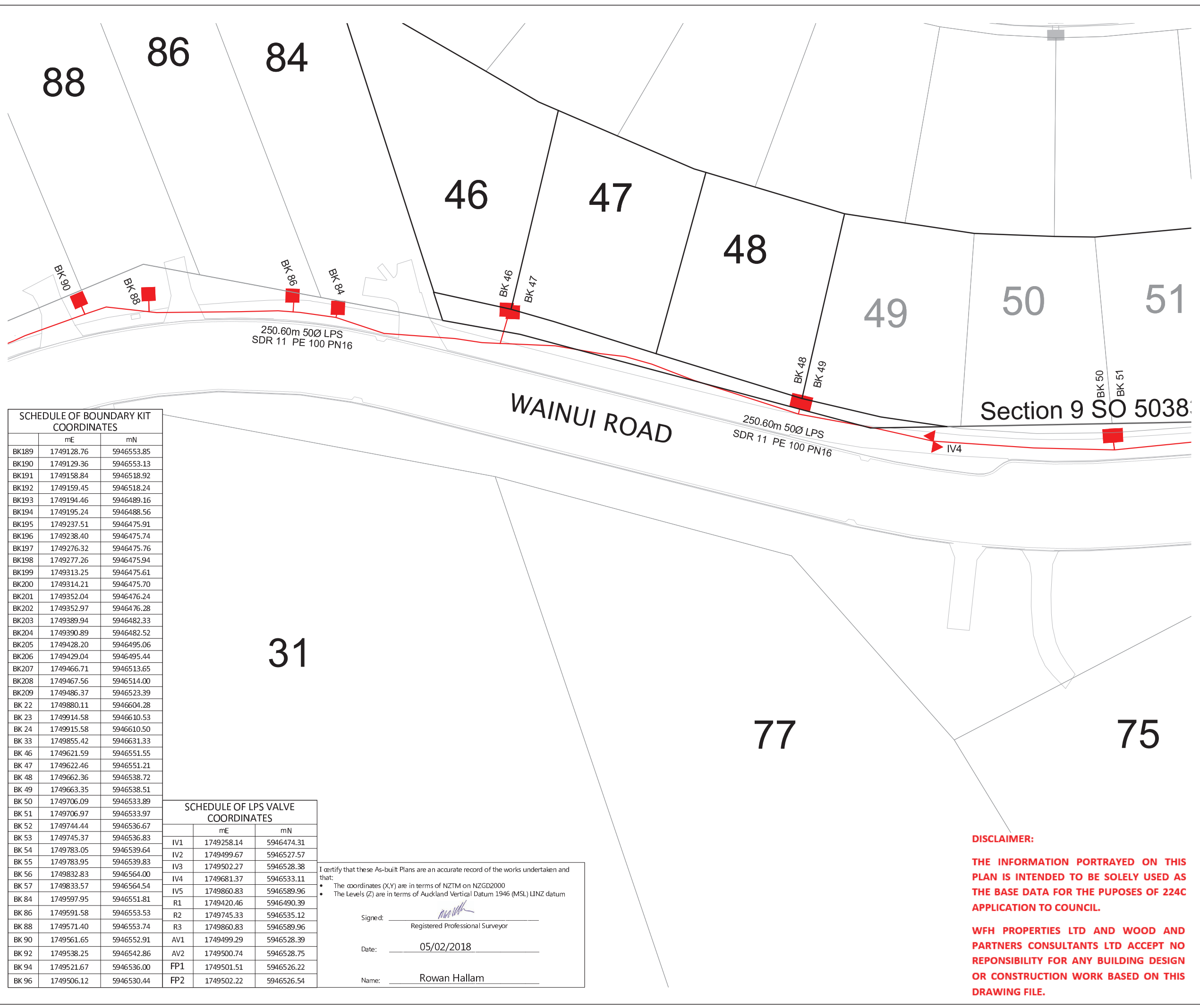
Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

103





LEGEND	
BK60 ■	BOUNDARY KIT
IV ◀▶	ISOLATION VALVE
FP □	FLUSHING POINT
AV ◉	AIR VALVE
R ▶▶	REDUCER
—	LOW PRESSURE SEWER
- - -	EXISTING LOW PRESSURE SEWER

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SCHEDULE OF LPS VALVE COORDINATES

	mE	mN
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IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
RV1	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
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FP1	1749501.51	5946526.22
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Signed: Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam

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DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

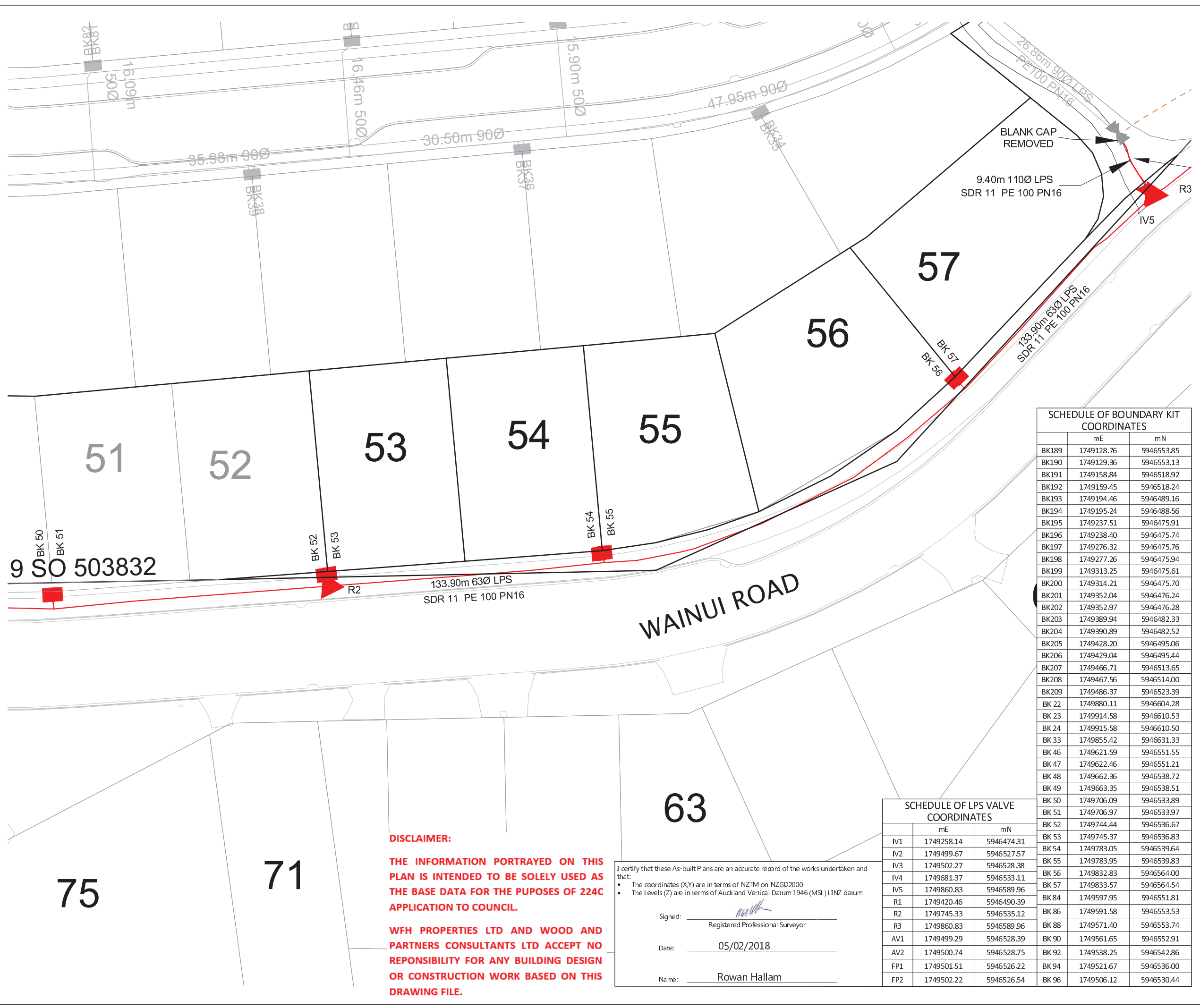
WASTEWATER ASBUILT PLAN  
SHEET 5 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-404-AB	

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**LEGEND**

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- IV ■ ISOLATION VALVE
- FP ■ FLUSHING POINT
- AV ■ AIR VALVE
- R ■ REDUCER
- LOW PRESSURE SEWER
- EXISTING LOW PRESSURE SEWER

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DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WASTEWATER ASBUILT PLAN  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-405-AB	

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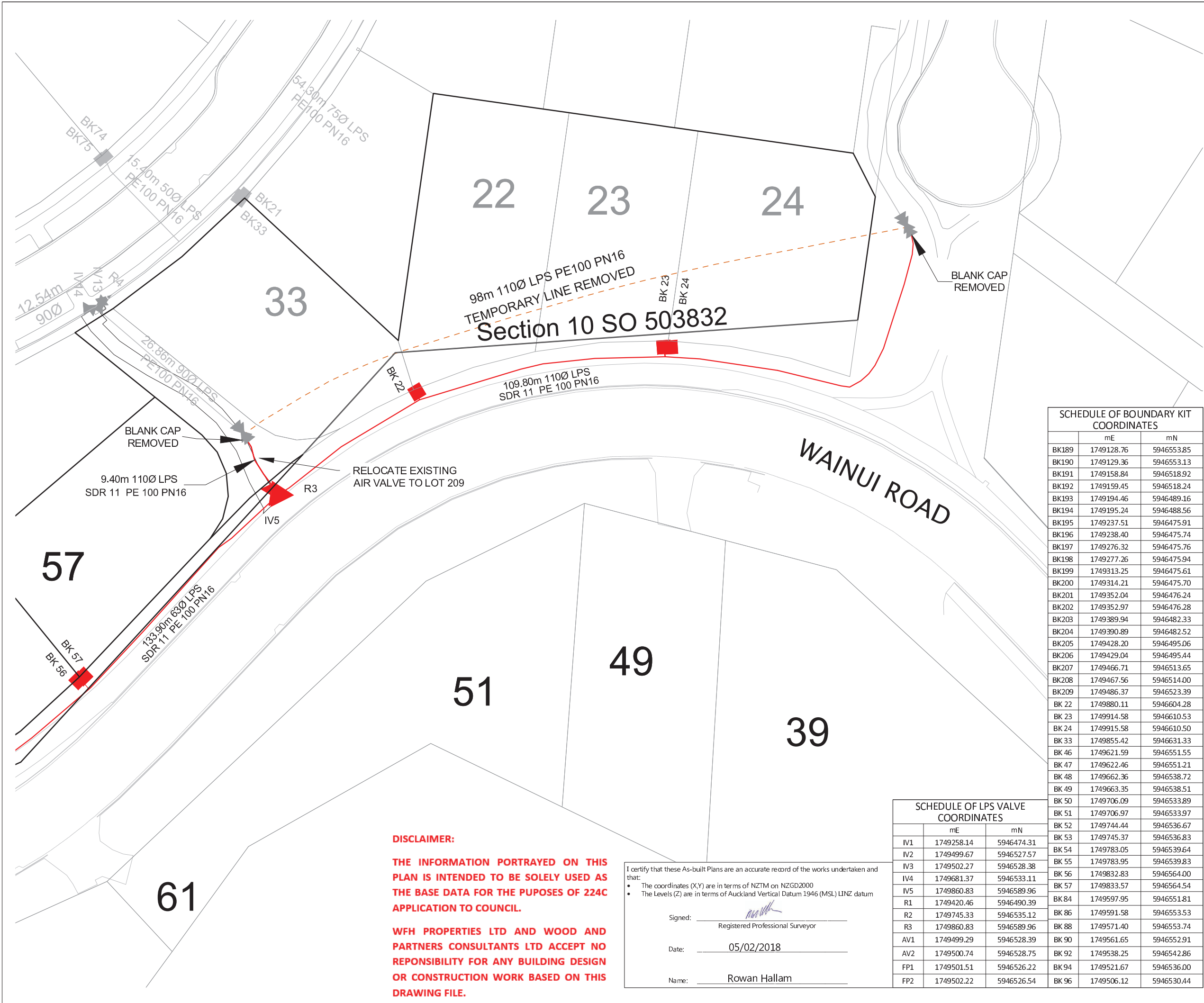
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Signed: \_\_\_\_\_  
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam





**LEGEND**

- BK60 ■ BOUNDARY KIT
- IV ■ ISOLATION VALVE
- FP ■ FLUSHING POINT
- AV ■ AIR VALVE
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- LOW PRESSURE SEWER
- EXISTING LOW PRESSURE SEWER

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BK 92	1749538.25	5946542.86
BK 94	1749521.67	5946536.00
BK 96	1749506.12	5946530.44

**SCHEDULE OF LPS VALVE COORDINATES**

	mE	mN
IV1	1749258.14	5946474.31
IV2	1749499.67	5946527.57
IV3	1749502.27	5946528.38
IV4	1749681.37	5946533.11
IV5	1749860.83	5946589.96
R1	1749420.46	5946490.39
R2	1749745.33	5946535.12
R3	1749860.83	5946589.96
AV1	1749499.29	5946528.39
AV2	1749500.74	5946528.75
FP1	1749501.51	5946526.22
FP2	1749502.22	5946526.54

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WASTEWATER ASBUILT PLAN  
SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-406-AB	

**DISCLAIMER:**

**THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PUPOSES OF 224C APPLICATION TO COUNCIL.**

**WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.**

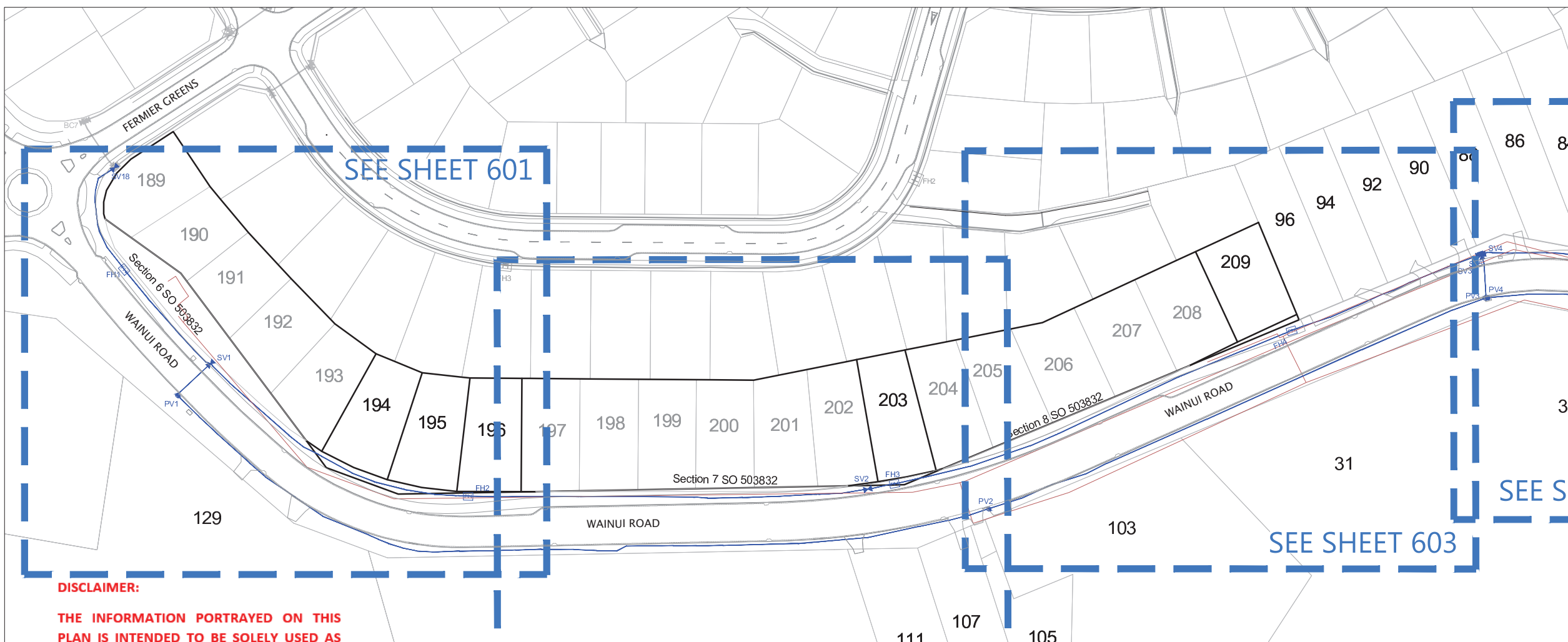
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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

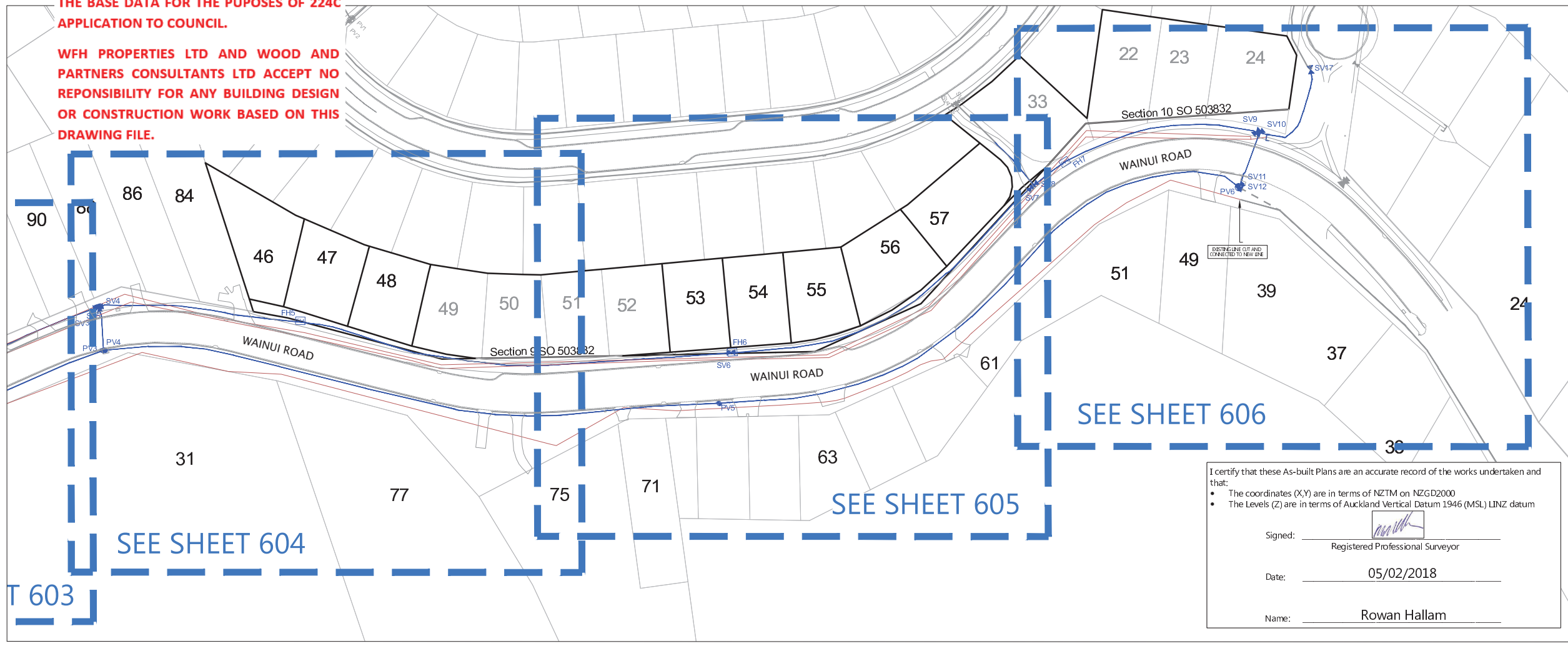
Date: 05/02/2018

Name: Rowan Hallam



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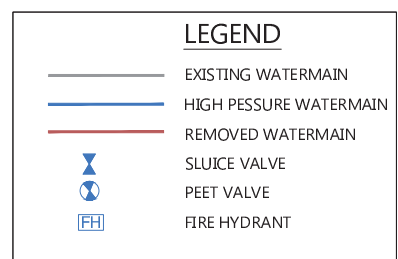


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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor  
 Date: 05/02/2018  
 Name: Rowan Hallam

- NOTES**
- ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
  - PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
  - WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
  - PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
  - 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 INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



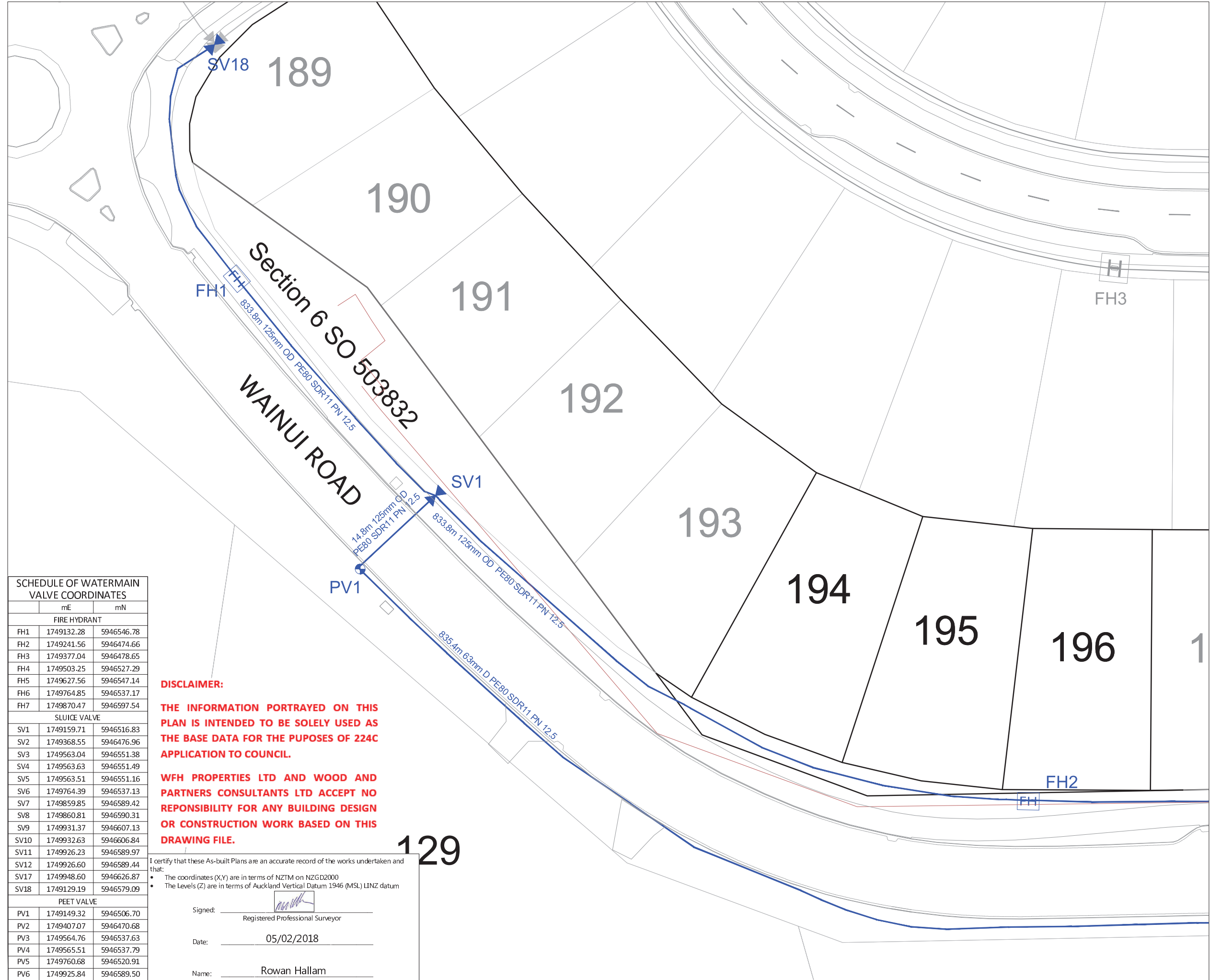
**MILLWATER  
 WAINUI ROAD UPGRADE  
 PART C**

**WATERMAIN AS-BUILT  
 OVERALL LAYOUT  
 SHEET 1 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-600-AB	

Document No. K133726 - WAINUI ROAD UPGRADE PART C PROJECT DATA\ACAD DRAWINGS\SURVEY\ASBUILT\33726-03-600-AB-WATERMAIN.DWG





- 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 BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
  4. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
  5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WATERMAIN AS-BUILT  
SHEET 2 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-601-AB	

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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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: 05/02/2018

Name: Rowan Hallam



**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

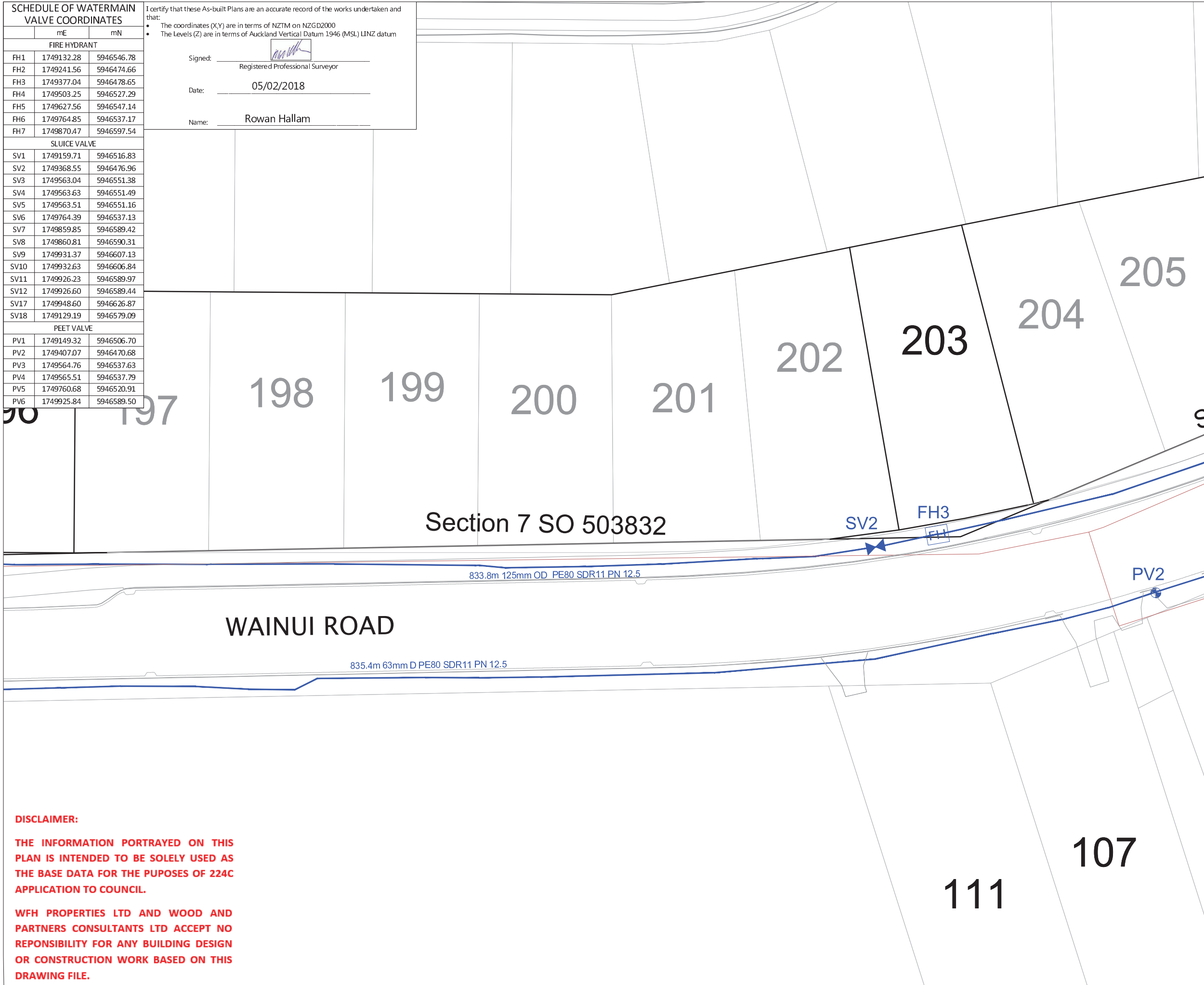
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Signed:   
Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam



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**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

WATERMAIN AS-BUILT  
SHEET 3 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-602-AB	

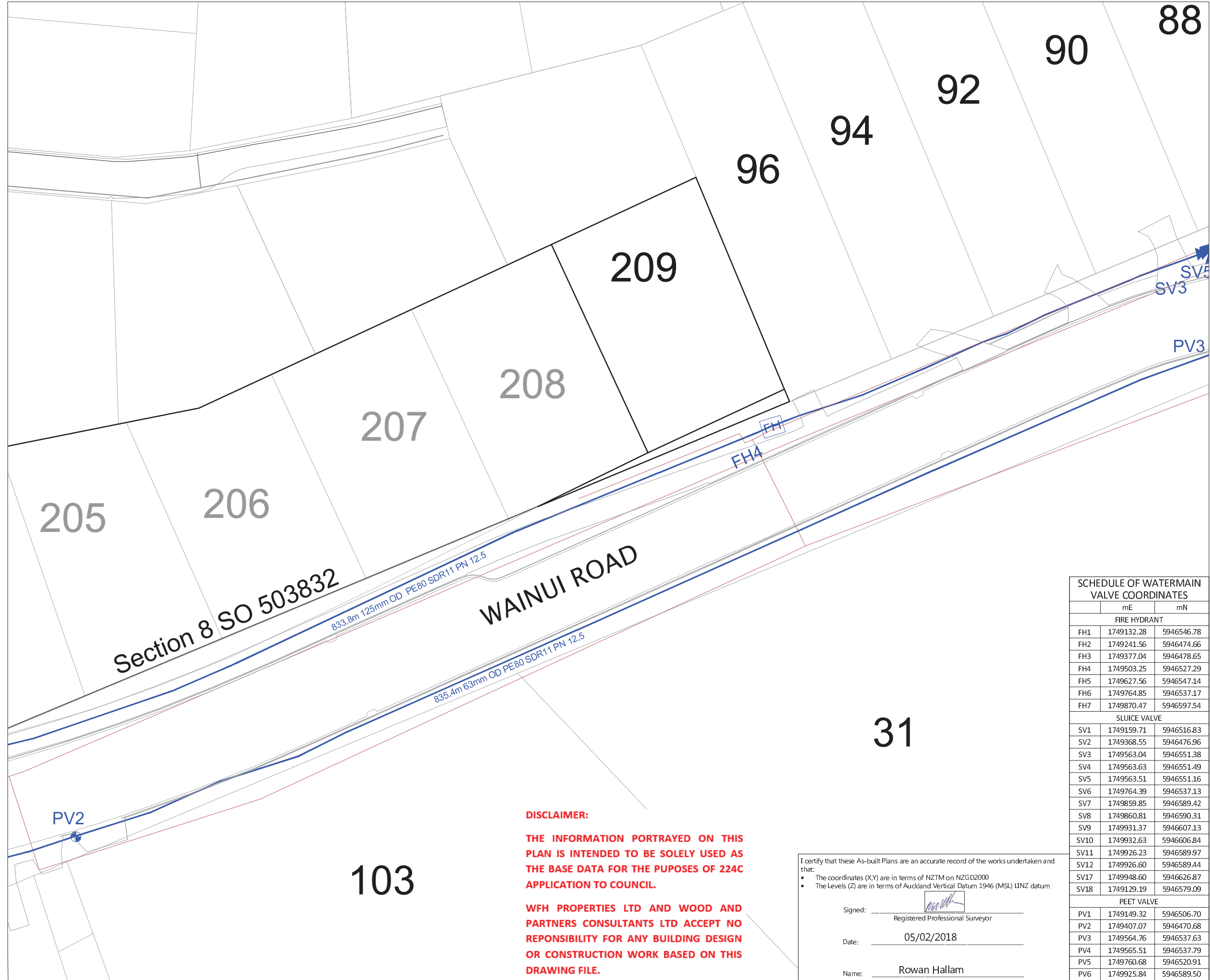
**DISCLAIMER:**

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WFH PROPERTIES LTD AND WOOD AND PARTNERS CONSULTANTS LTD ACCEPT NO RESPONSIBILITY FOR ANY BUILDING DESIGN OR CONSTRUCTION WORK BASED ON THIS DRAWING FILE.

Document No. K\33726 - WAINUI ROAD UPGRADE PART C\PROJECT DATA\ACAD DRAWINGS\SURVEY\ASBUILT\33726-03-600-AB-WATERMAIN.DWG





- NOTES**
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  5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WATERMAIN AS-BUILT  
SHEET 4 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-603-AB	

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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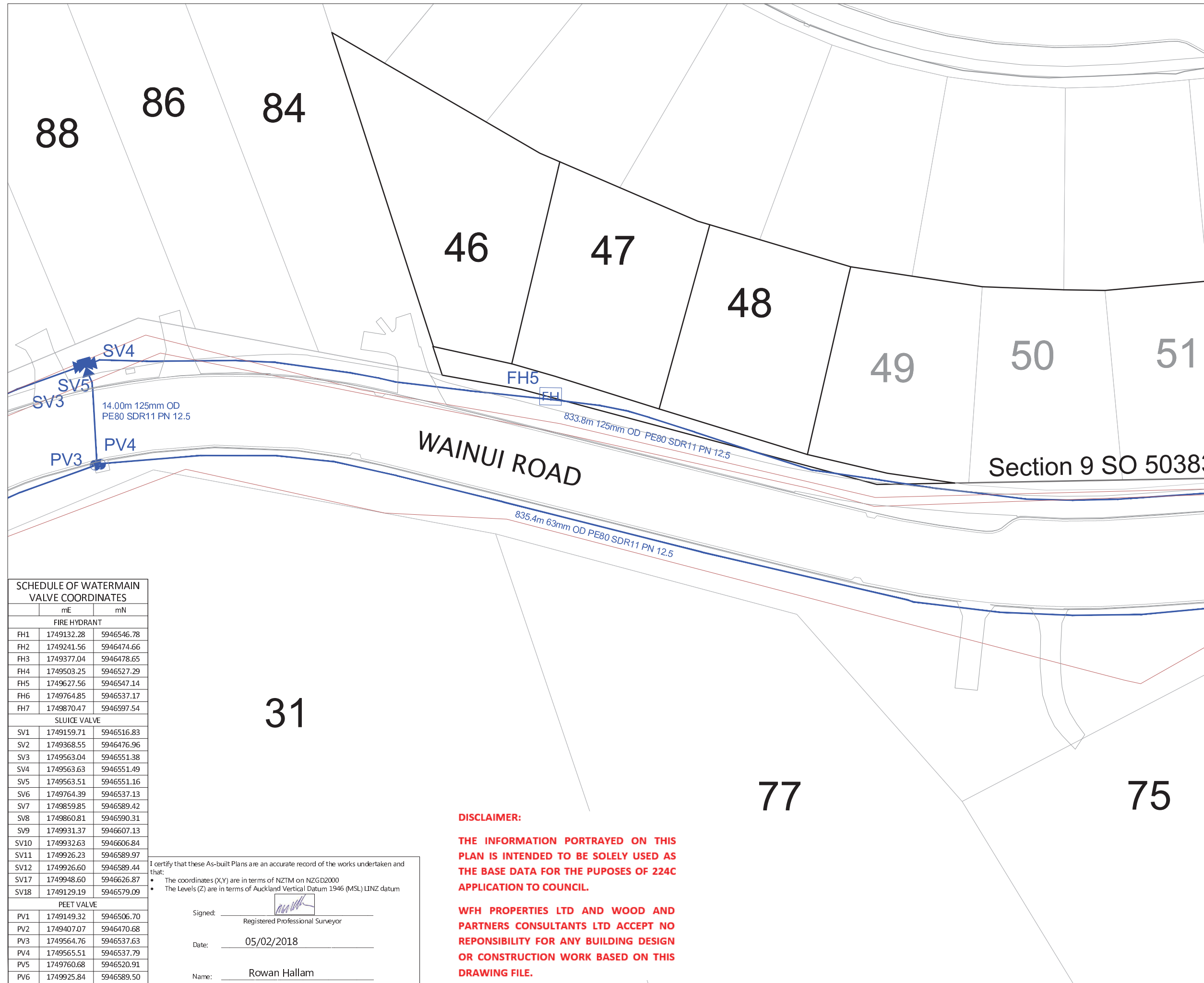
I certify that these As-built Plans are an accurate record of the works undertaken and that:

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

Signed: Registered Professional Surveyor

Date: 05/02/2018

Name: Rowan Hallam



- NOTES**
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**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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

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Signed: Registered Professional Surveyor  
 Date: 05/02/2018  
 Name: Rowan Hallam

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**REVISION DETAILS**

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



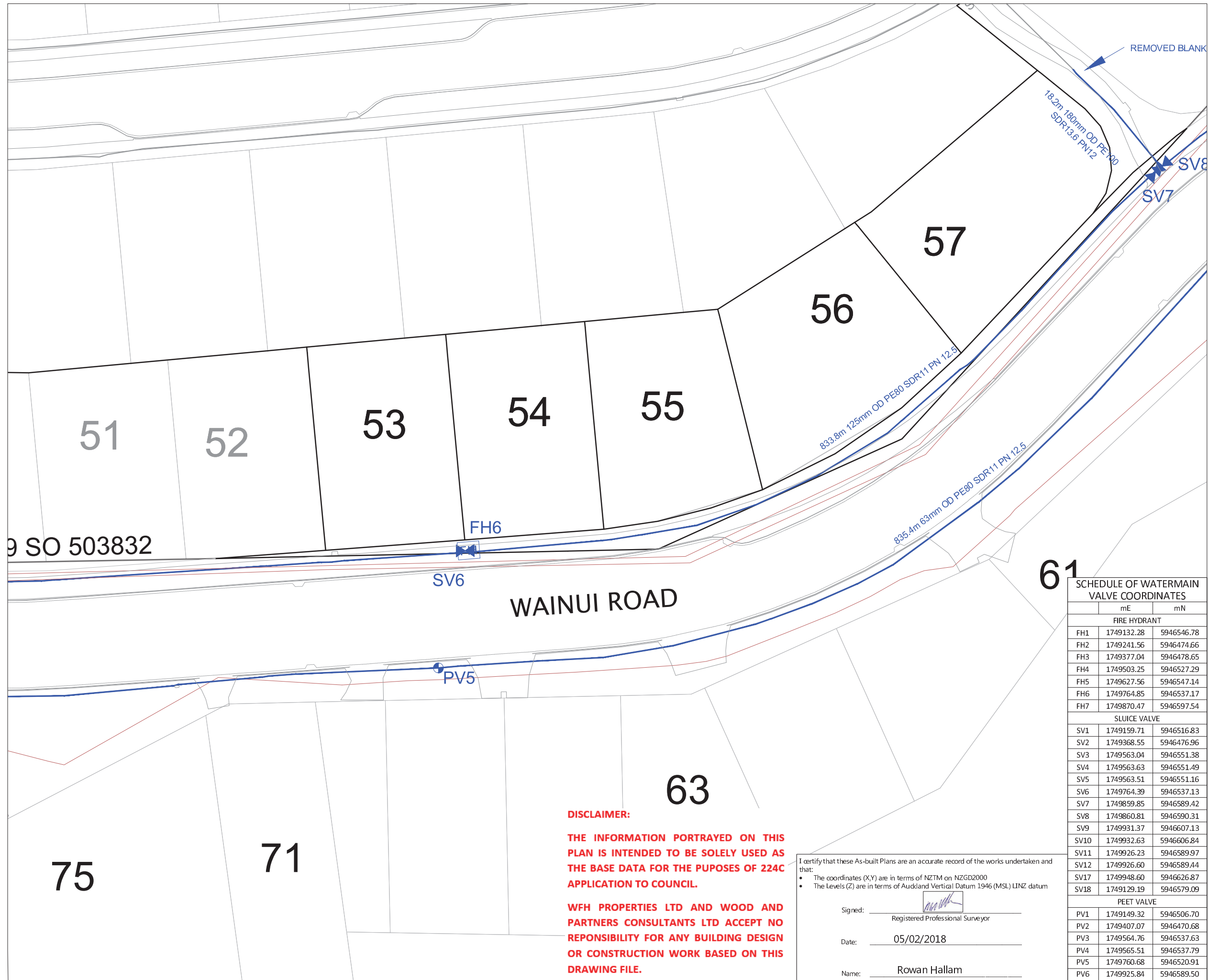
**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WATERMAIN AS-BUILT  
SHEET 5 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-604-AB	

Document No. K:\33726 - Wainui Road Upgrade Part C\Project Data\Acad Drawings\Survey\ASBUILT\33726-03-600-AB-WATERMAIN.DWG





- NOTES**
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  3. WATERMANS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
  4. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
  5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WATERMAIN AS-BUILT  
SHEET 6 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-605-AB	

**SCHEDULE OF WATERMAIN VALVE COORDINATES**

	mE	mN
<b>FIRE HYDRANT</b>		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
<b>SLUICE VALVE</b>		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
<b>PEET VALVE</b>		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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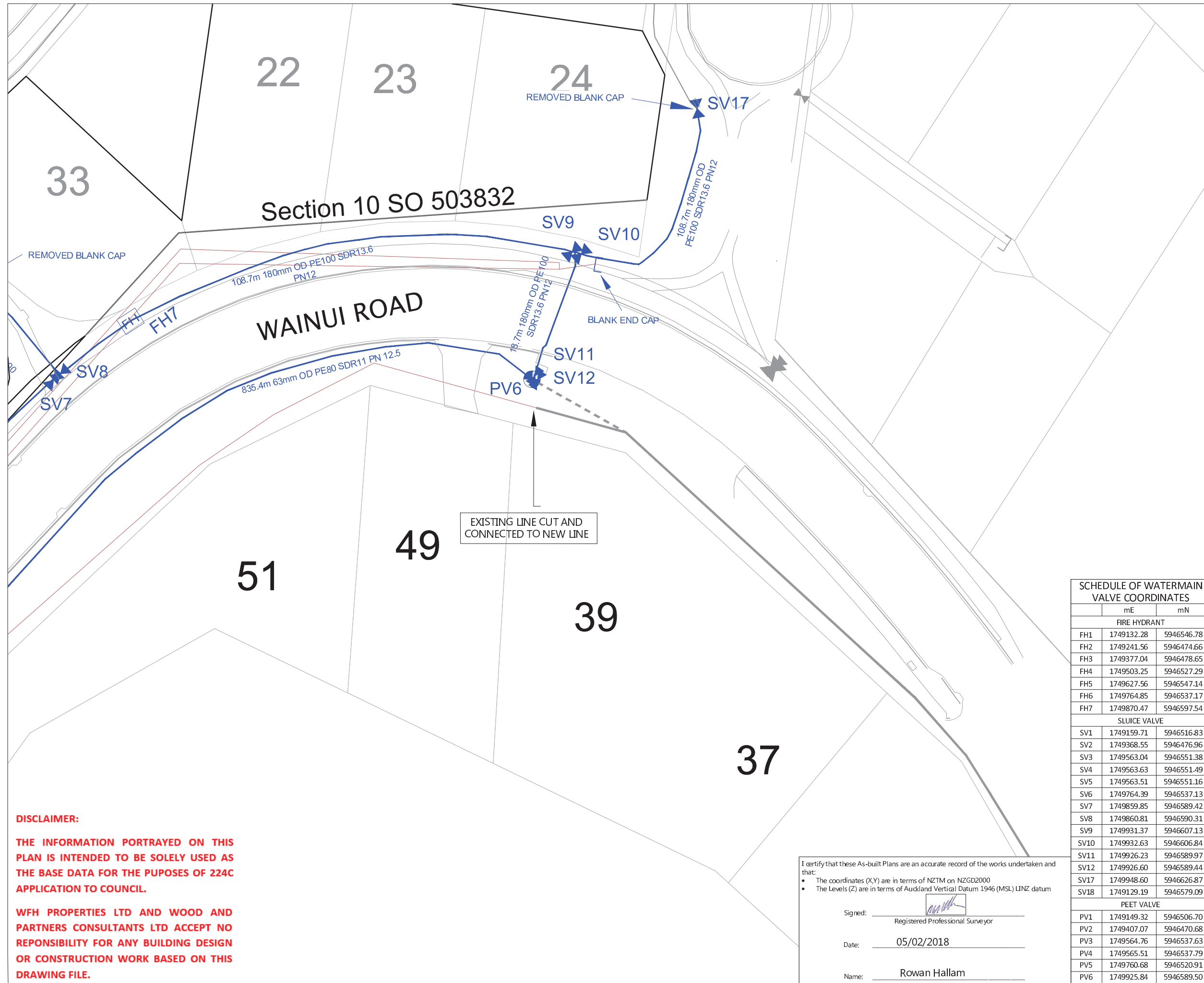
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 05/02/2018

Name: Rowan Hallam



- 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 BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
  4. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
  5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
  6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

**LEGEND**

	EXISTING WATERMAIN
	HIGH PESSURE WATERMAIN
	REMOVED WATERMAIN
	SLUICE VALVE
	PEET VALVE
	FIRE HYDRANT

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	05/02/18

SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 <a href="http://WOODS.CO.NZ">WOODS.CO.NZ</a>
DESIGNED	AP	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

N

**MILLWATER  
WAINUI ROAD UPGRADE  
PART C**

**WATERMAIN AS-BUILT  
SHEET 7 OF 7**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	33726-00-606-AB	

**SCHEDULE OF WATERMAIN  
VALVE COORDINATES**

	mE	mN
FIRE HYDRANT		
FH1	1749132.28	5946546.78
FH2	1749241.56	5946474.66
FH3	1749377.04	5946478.65
FH4	1749503.25	5946527.29
FH5	1749627.56	5946547.14
FH6	1749764.85	5946537.17
FH7	1749870.47	5946597.54
SLUICE VALVE		
SV1	1749159.71	5946516.83
SV2	1749368.55	5946476.96
SV3	1749563.04	5946551.38
SV4	1749563.63	5946551.49
SV5	1749563.51	5946551.16
SV6	1749764.39	5946537.13
SV7	1749859.85	5946589.42
SV8	1749860.81	5946590.31
SV9	1749931.37	5946607.13
SV10	1749932.63	5946606.84
SV11	1749926.23	5946589.97
SV12	1749926.60	5946589.44
SV17	1749948.60	5946626.87
SV18	1749129.19	5946579.09
PEET VALVE		
PV1	1749149.32	5946506.70
PV2	1749407.07	5946470.68
PV3	1749564.76	5946537.63
PV4	1749565.51	5946537.79
PV5	1749760.68	5946520.91
PV6	1749925.84	5946589.50

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