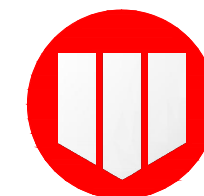


MILLWATER - PRECINCT 2 STAGE 4A AS-BUILT DRAWINGS

APRIL 2017

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



WOODS
Engineers. Surveyors. Planners.

MILLWATER - PRECINCT 2 STAGE 4A

AS-BUILT DRAWINGS

CONTENT INDEX AND LOCALITY PLAN

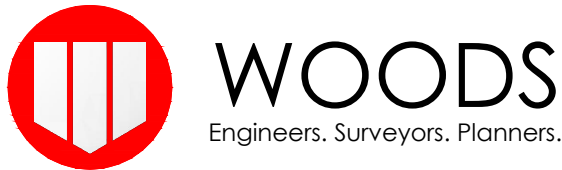
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000	Plans Index and Location Plan
MILLWATER - PRECINCT 2 STAGE 04A AS-BUILT DRAWINGS	
DWG NO	DESCRIPTION
100 - 102	Final Contour As-Built Plan
110	Cut/Fill Original Surface - Earthwork Surface As-Built Plan
111	Cut/Fill Earthworks Surface - Final Surface As-Built Plan
112	Cut/Fill Original Surface - Final Surface As-Built Plan
120 - 122	Cut/Fill - Shear Key, Undercut & Subsoil Drains As-Built Plan
130 - 134	Retaining Wall As-Built Plan
200 - 204	Roading As-Built Plans
300 - 304	Stormwater As-Built Plan
400 - 403	Wastewater Sewer As-Built Plan
600 - 603	Water Reticulation As-Built Plan

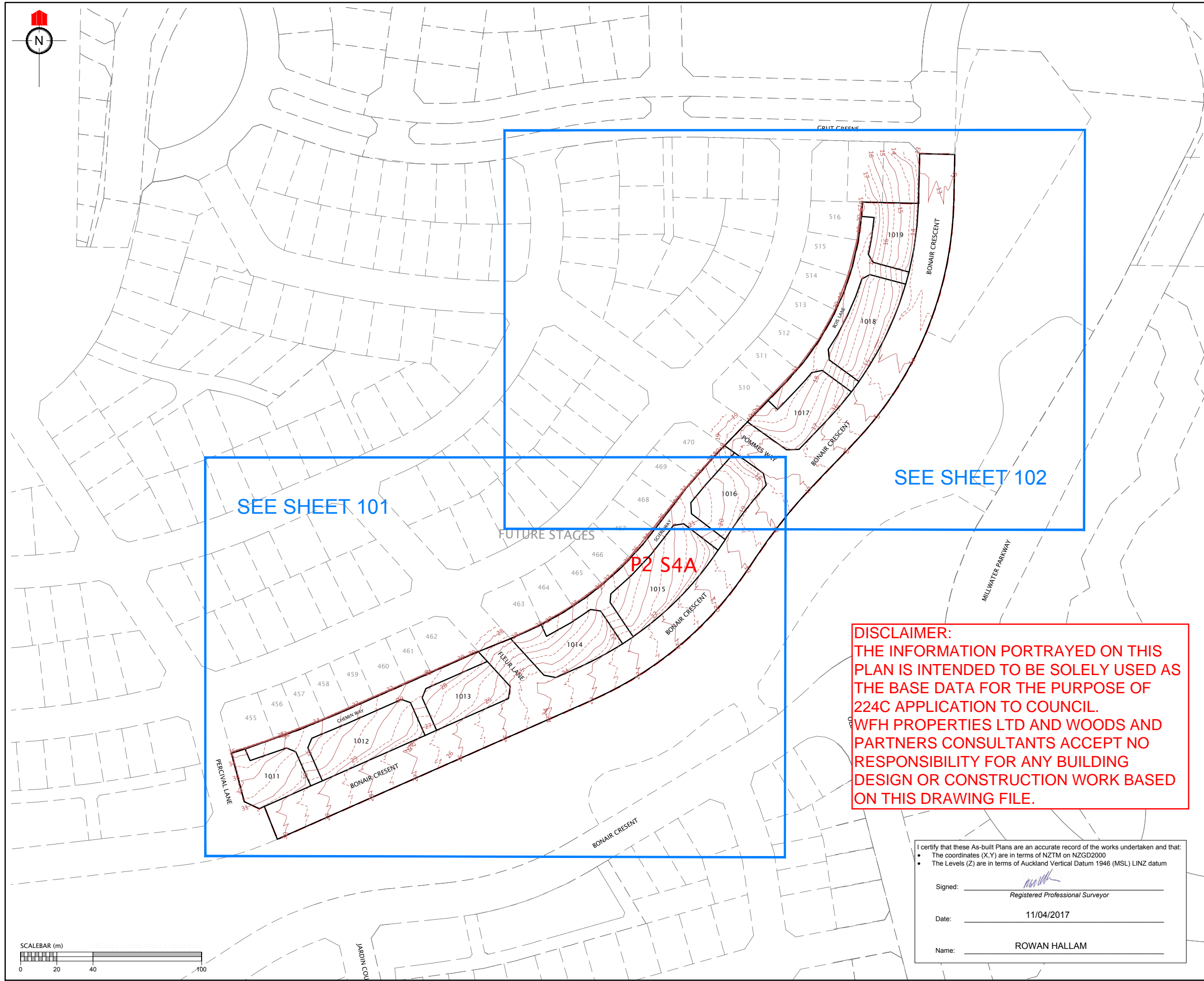
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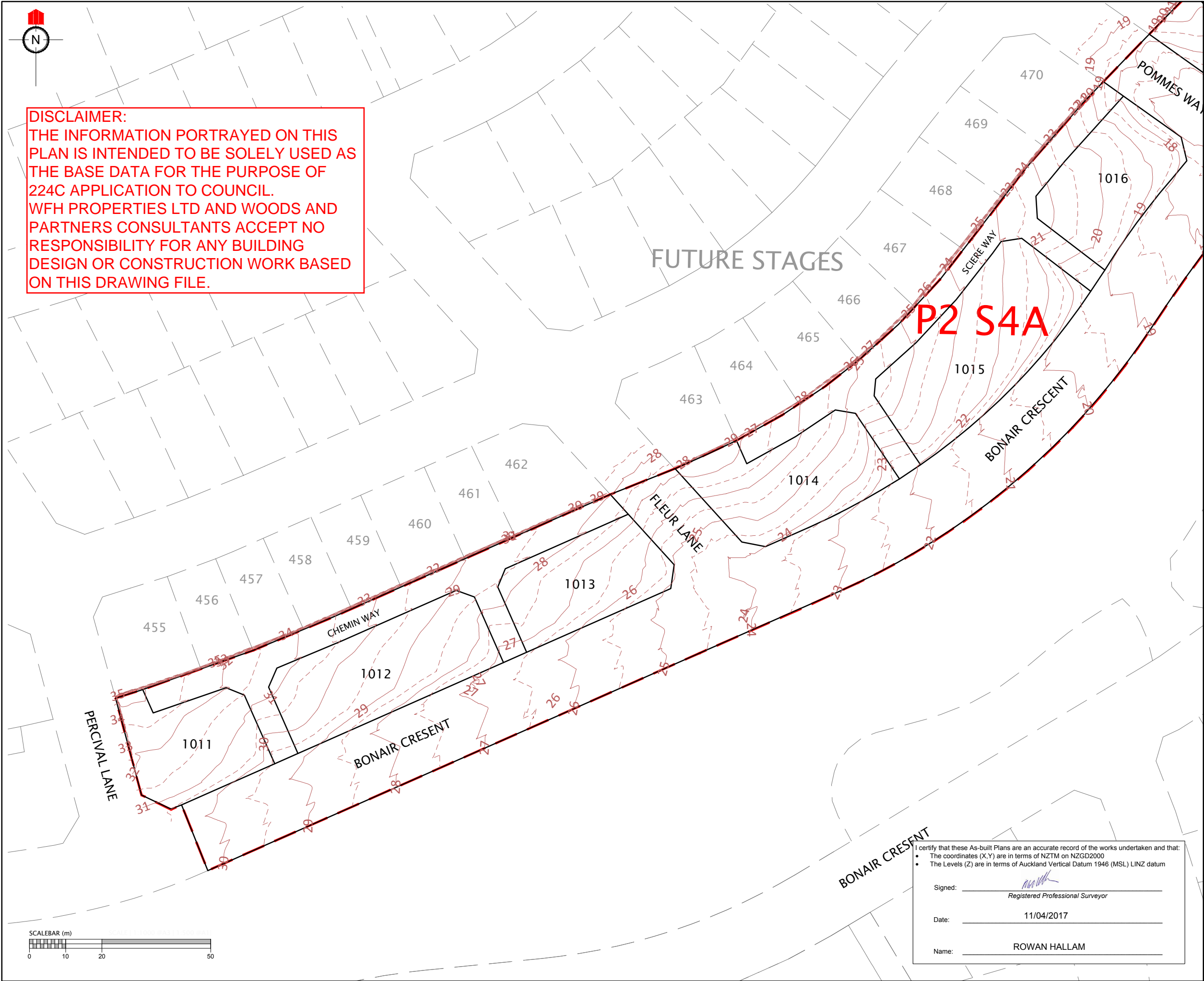
LOCATION PLAN

NOT TO SCALE





REVISION DETAILS		NAME	DATE
<div>NOTES</div> <div>1. CONTOURS ARE AT 0.5 METRE INTERVALS</div> <div>2. BOUNDARIES ARE SUBJECT TO FINAL SURVEY.</div>			
<div>LEGEND</div> <div><div>CONTOURS MAJOR</div><div>CONTOURS MINOR</div><div>STAGE BOUNDARIES</div><div>LOT BOUNDARIES</div></div>			
CLIENT: <div>WFH PROPERTIES</div>			
<div>WOODS</div> <div>Engineers. Surveyors. Planners.</div>			
MILLWATER PRECINCT 2 STAGE 4A			
FINAL CONTOUR AS-BUILT PLAN PAGE 1 OF 3			
AUCKLAND COUNCIL			
DESIGNED: AC	ASBUILT		
CHECKED: KR	DRAWN: SP		
APPROVED: MRH	SURVEYED: WOODS		
JOB NUMBER: 33218	SCALE: 1:2000 @ A3		
ISSUED: APRIL 2017			
DWG. NO. 33218-04A-100-AB	REV.		



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REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

2. BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

— CONTOURS MAJOR

- - - CONTOURS MINOR

- - - STAGE BOUNDARIES

— LOT BOUNDARIES

CLIENT:

WFH PROPERTIES

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**MILLWATER
PRECINCT 2
STAGE 4A**

**FINAL CONTOUR
AS-BUILT PLAN
PAGE 2 OF 3**

AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: SP
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:1000 @ A3
ISSUED: MARCH 2017	
DWG. NO. 33218-04A-101-AB	REV.

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

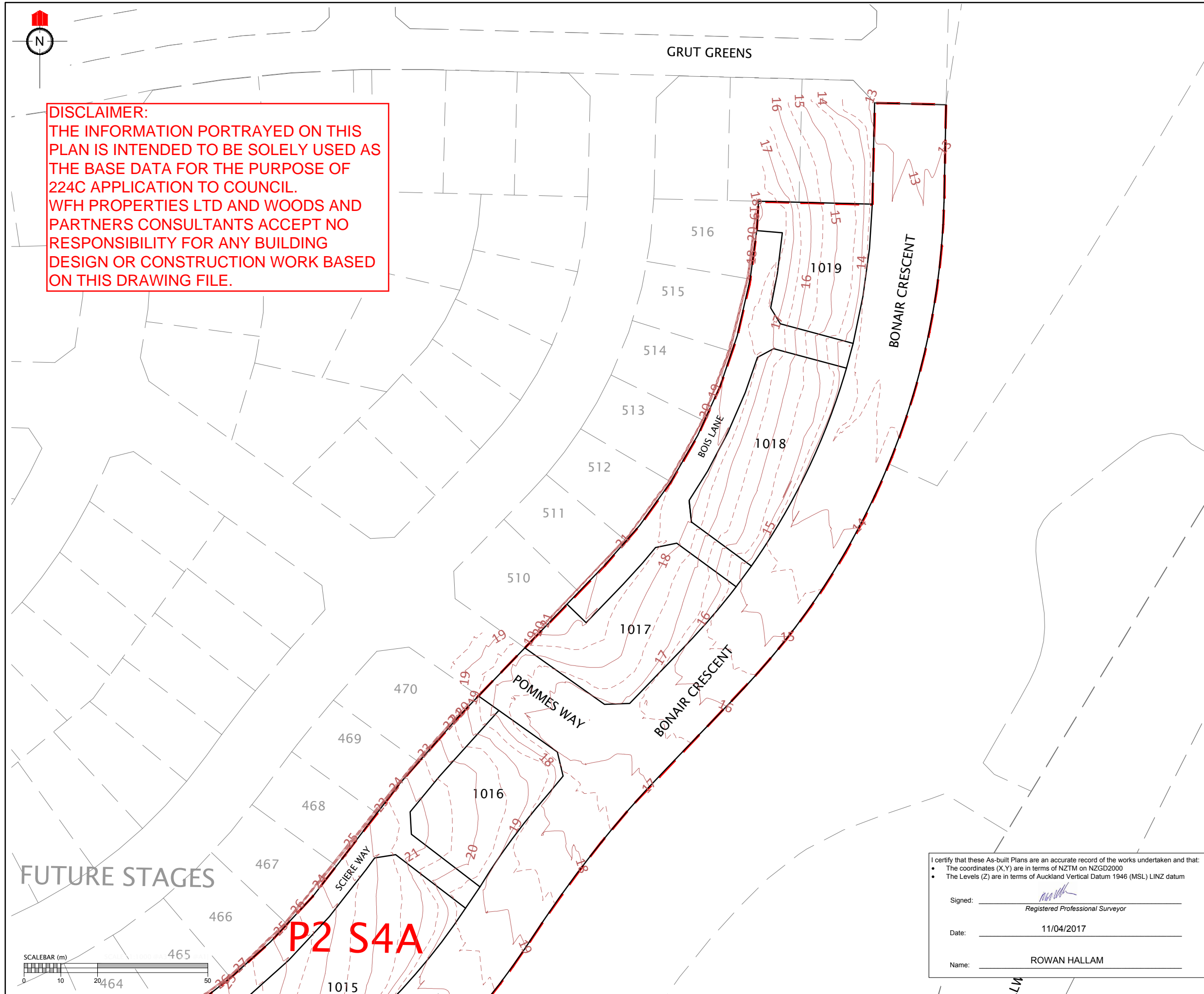
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 11/04/2017

Name: ROWAN HALLAM





DISCLAIMER:
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PLAN IS INTENDED TO BE SOLELY USED AS
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REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

2. BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

LEGEND

— CONTOURS MAJOR

- - - CONTOURS MINOR

- - - STAGE BOUNDARIES

— LOT BOUNDARIES

CLIENT:

**MILLWATER
PRECINCT 2
STAGE 4A**

**FINAL CONTOUR
AS-BUILT PLAN
PAGE 3 OF 3**

AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: SP
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:1000 @ A3
ISSUED: MARCH 2017	
DWG. NO. 33218-04A-102-AB	REV.

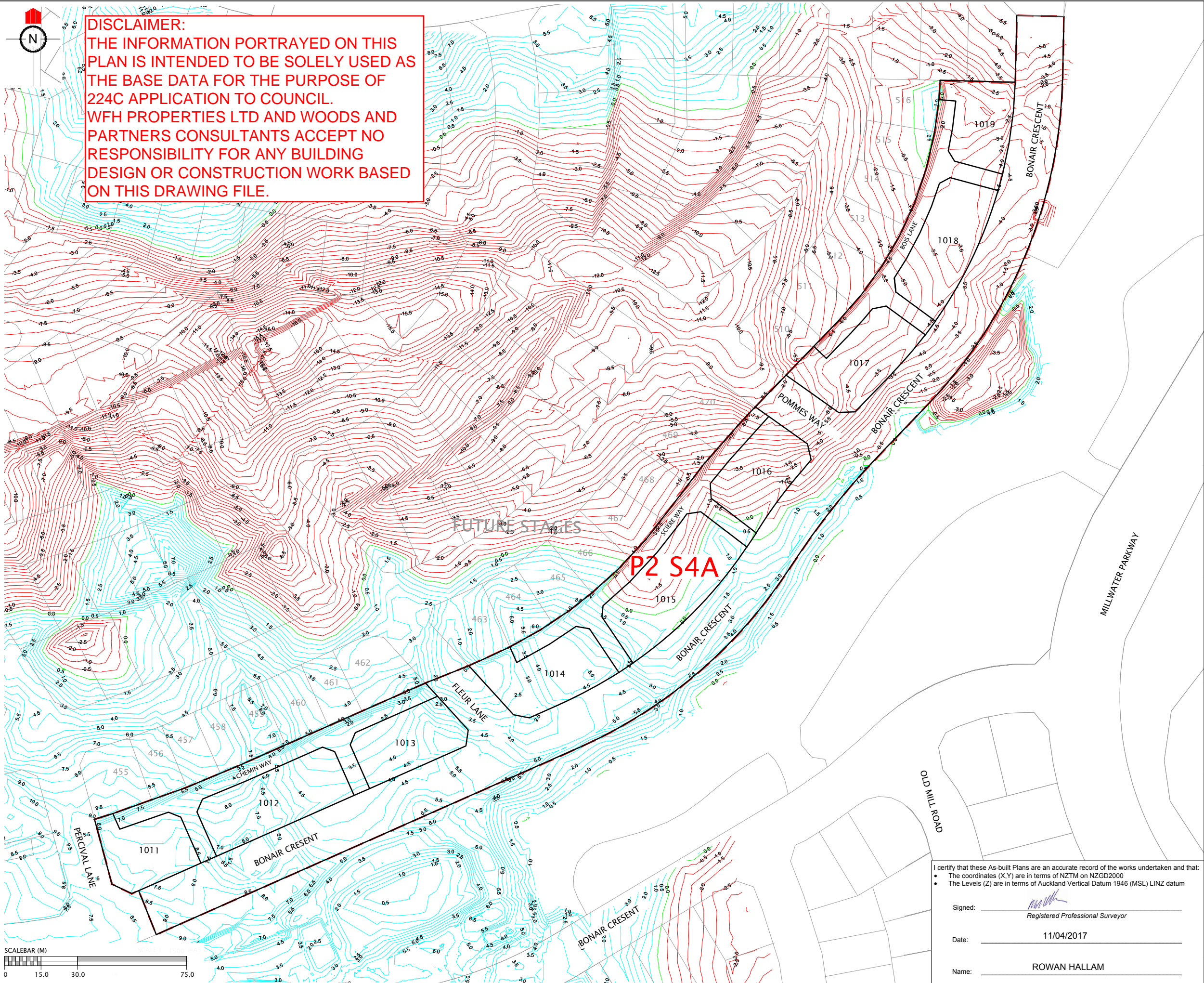
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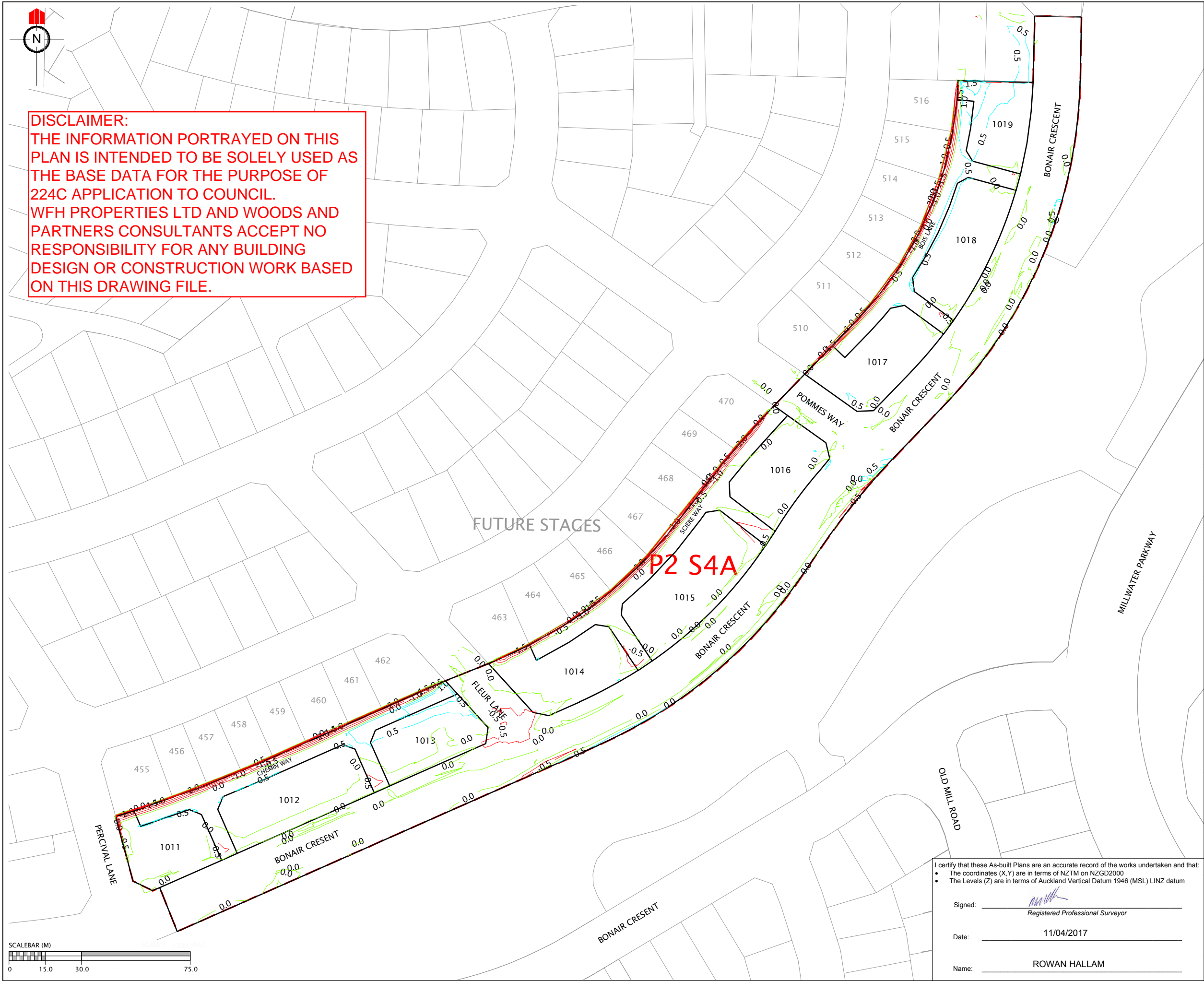
Signed: _____
Registered Professional Surveyor

Date: 11/04/2017

Name: ROWAN HALLAM



REVISION DETAILS		NAME	DATE
<div>NOTES<div>1. CONTOURS ARE AT 0.5 METRE INTERVALS</div></div> <div>LEGEND<div><div>ZERO CONTOUR</div><div>CUT CONTOUR</div><div>FILL CONTOUR</div><div>STAGE BOUNDARIES</div><div>LOT BOUNDARIES</div></div></div>			
CLIENT: <div>WFH<div>PROPERTIES</div></div>			
<div>WOODS<div>Engineers. Surveyors. Planners.</div></div>			
MILLWATER PRECINCT 2 STAGE 4A			
CUT/FILL CONTOUR AS-BUILT ORIGINAL SURFACE - EARTHWORKS SURFACE			
AUCKLAND COUNCIL			
DESIGNED: AC		ASBUILT	
CHECKED: KR		DRAWN: KR	
APPROVED: MRH		SURVEYED: WOODS	
JOB NUMBER: 33218		SCALE: 1:1500 @ A3	
ISSUED: APRIL 2017			
DWG. NO. 33218-04A-110-AB			REV.



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REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

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

CLIENT:



WFH
PROPERTIES



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**MILLWATER
PRECINCT 2
STAGE 4A**


**CUT/FILL CONTOUR AS-BUILT
EARTHWORKS SURFACE - FINAL
SURFACE**

AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:1500 @ A3
ISSUED: APRIL 2017	
DWG. NO. 33218-04A-111-AB	REV.

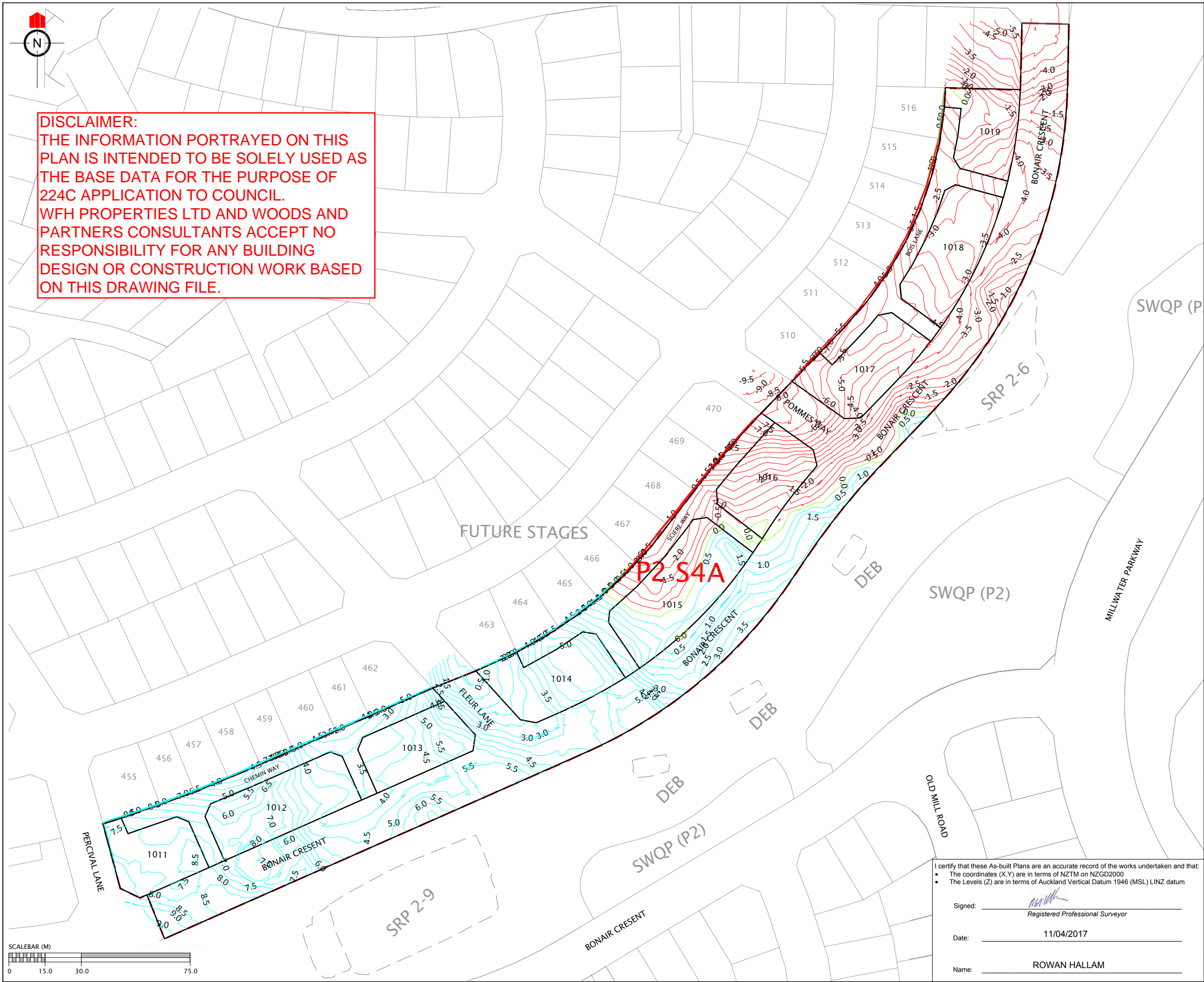
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Signed: 
Registered Professional Surveyor

Date: 11/04/2017

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REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

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

CLIENT:

WFH PROPERTIES

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MILLWATER PRECINCT 2 STAGE 4A

CUT/FILL CONTOUR AS-BUILT
ORIGINAL SURFACE - FINAL SURFACE

AUCKLAND COUNCIL

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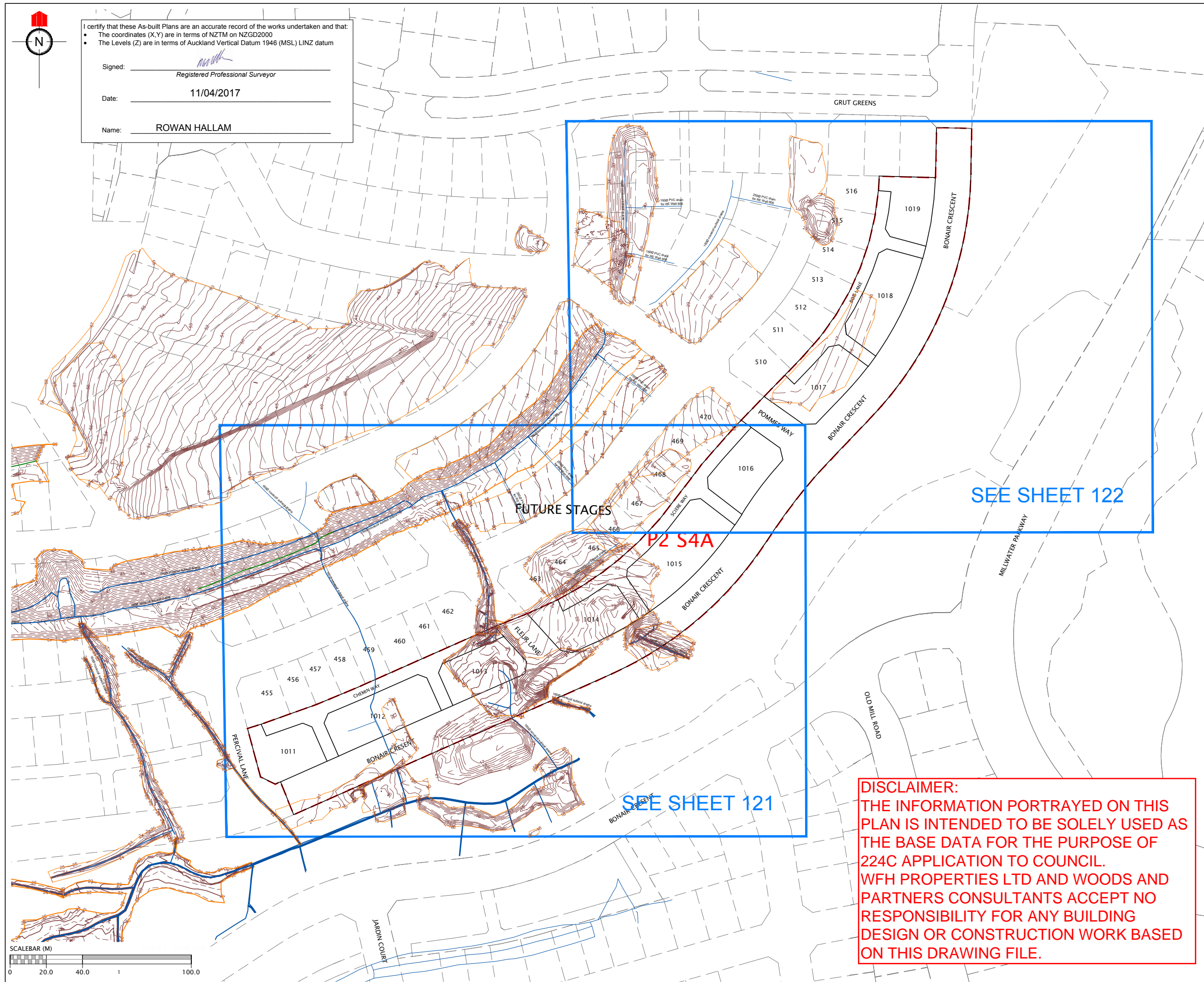
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 11/04/2017

Name: ROWAN HALLAM

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:1500 @ A3
ISSUED: APRIL 2017	
DWG. NO. 33218-04A-112-AB	REV.



REVISION DETAILS		NAME	DATE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS

CLIENT:

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

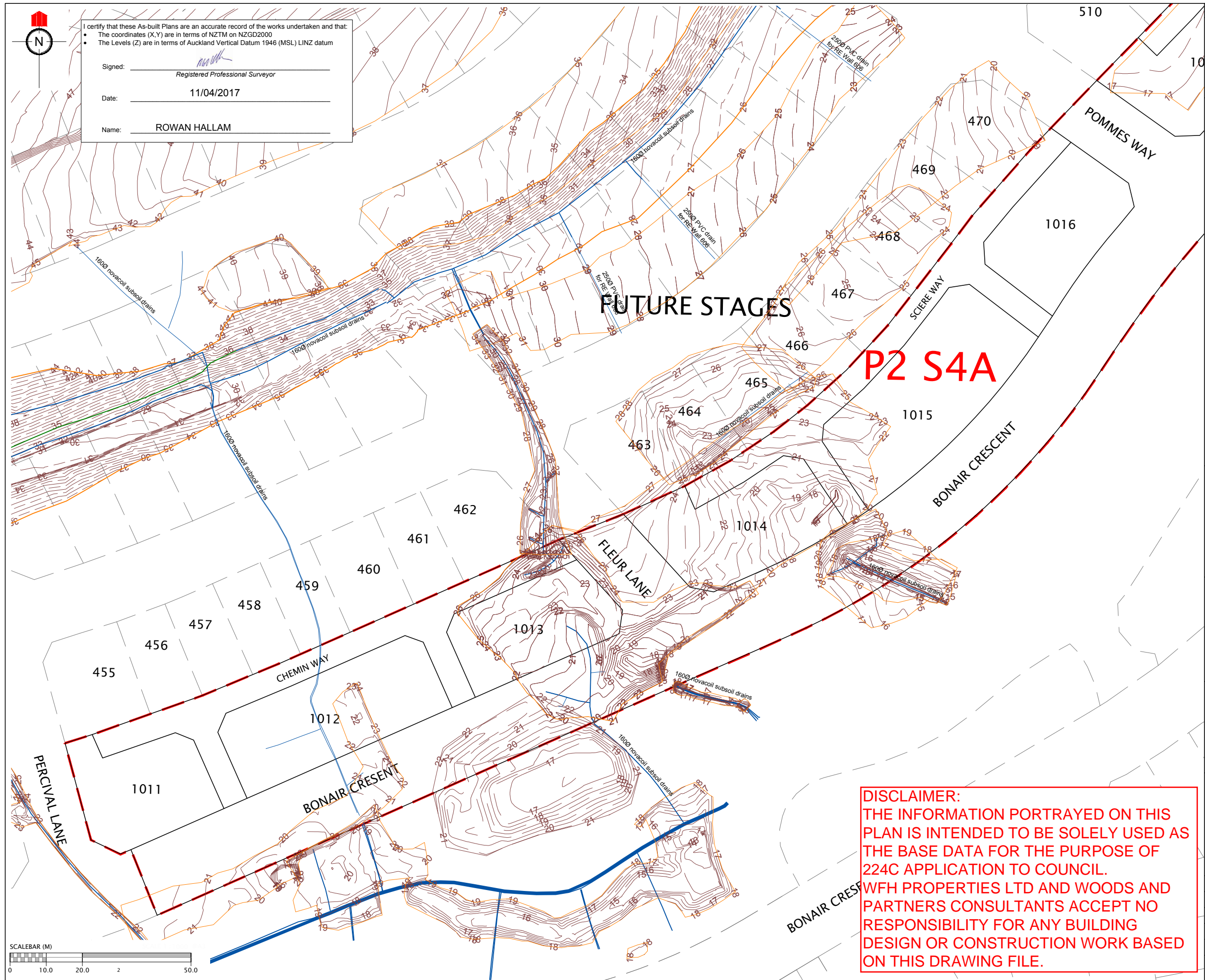
**MILLWATER
PRECINCT 2
STAGE 4A**

SHEAR KEY, UNDERCUTS &
SUBSOIL DRAINS
AS-BUILT PLAN
PAGE 1 OF 3

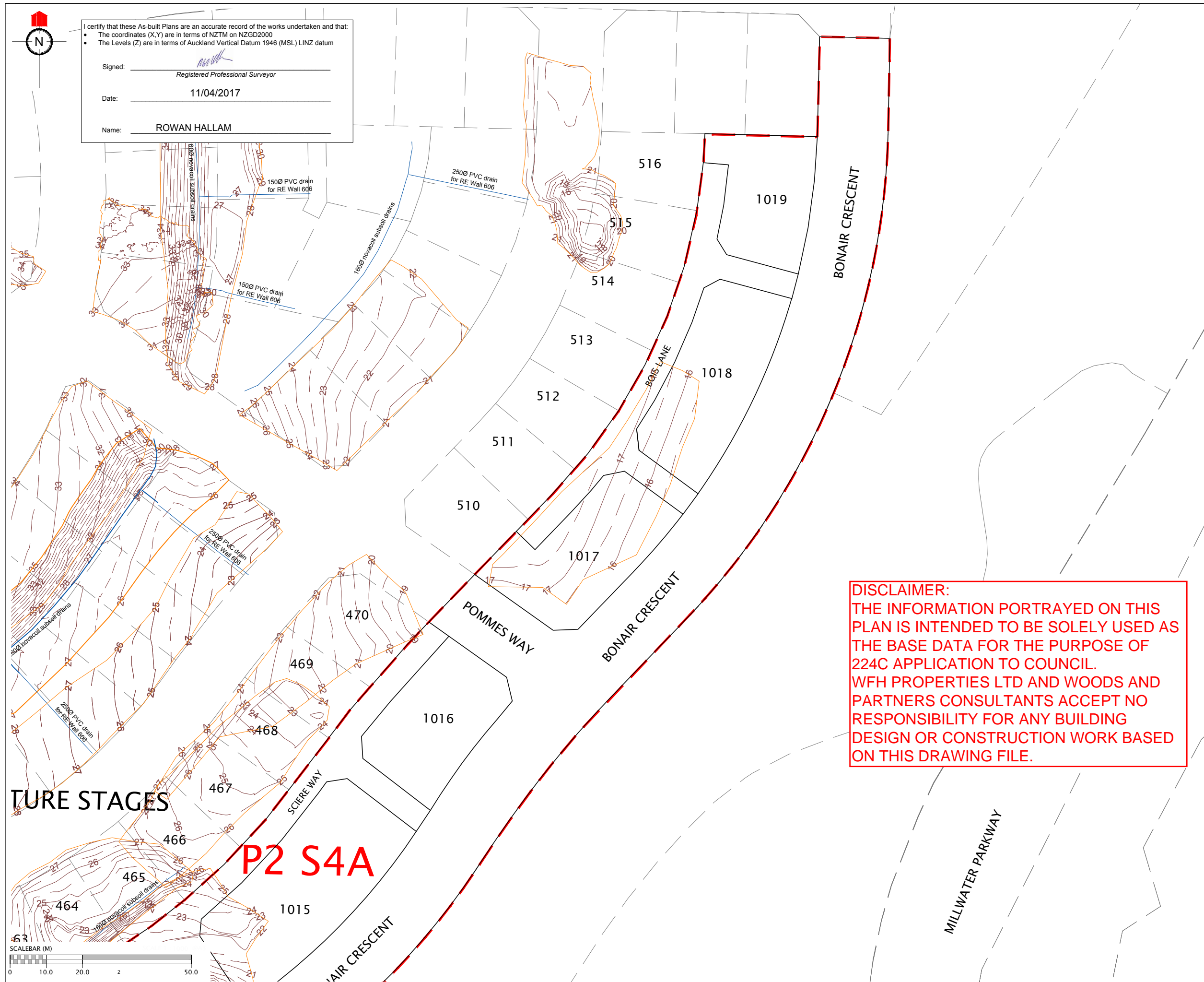
AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: HICKS
JOB NUMBER: 33218	SCALE: 1:2000 @ A3
ISSUED: APRIL 2017	
DWG. NO. 33218-04A-120-AB	REV.

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REVISION DETAILS		NAME	DATE
<div>NOTES</div> <div>1. CONTOURS ARE AT 0.5 METRE INTERVALS</div>			
<div>LEGEND</div> <div><div>1600 novacoil subsoil drains</div><div>REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS</div><div>EXISTING STORMWATER DRAINAGE</div><div>NEW STORMWATER DRAINAGE</div><div>STAGE BOUNDARIES</div><div>LOT BOUNDARIES</div><div>CONTOURS</div><div>SHEAR KEY & UNDERCUT AREAS</div></div>			
CLIENT: <div>WFH PROPERTIES</div>			
<div>WOODS</div> <div>Engineers. Surveyors. Planners.</div>			
MILLWATER PRECINCT 2 STAGE 4A			
SHEAR KEY, UNDERCUTS & SUBSOIL DRAINS AS-BUILT PLAN PAGE 2 OF 3 AUCKLAND COUNCIL			
DESIGNED: AC	ASBUILT		
CHECKED: KR	DRAWN: KR		
APPROVED: MRH	SURVEYED: HICKS		
JOB NUMBER: 33218	SCALE: 1:1000 @ A3		
ISSUED: APRIL 2017			
DWG. NO. 33218-04A-121-AB	REV.		



REVISION DETAILS		NAME	DATE

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

- NOVACOIL SUBSOIL DRAINS
- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS

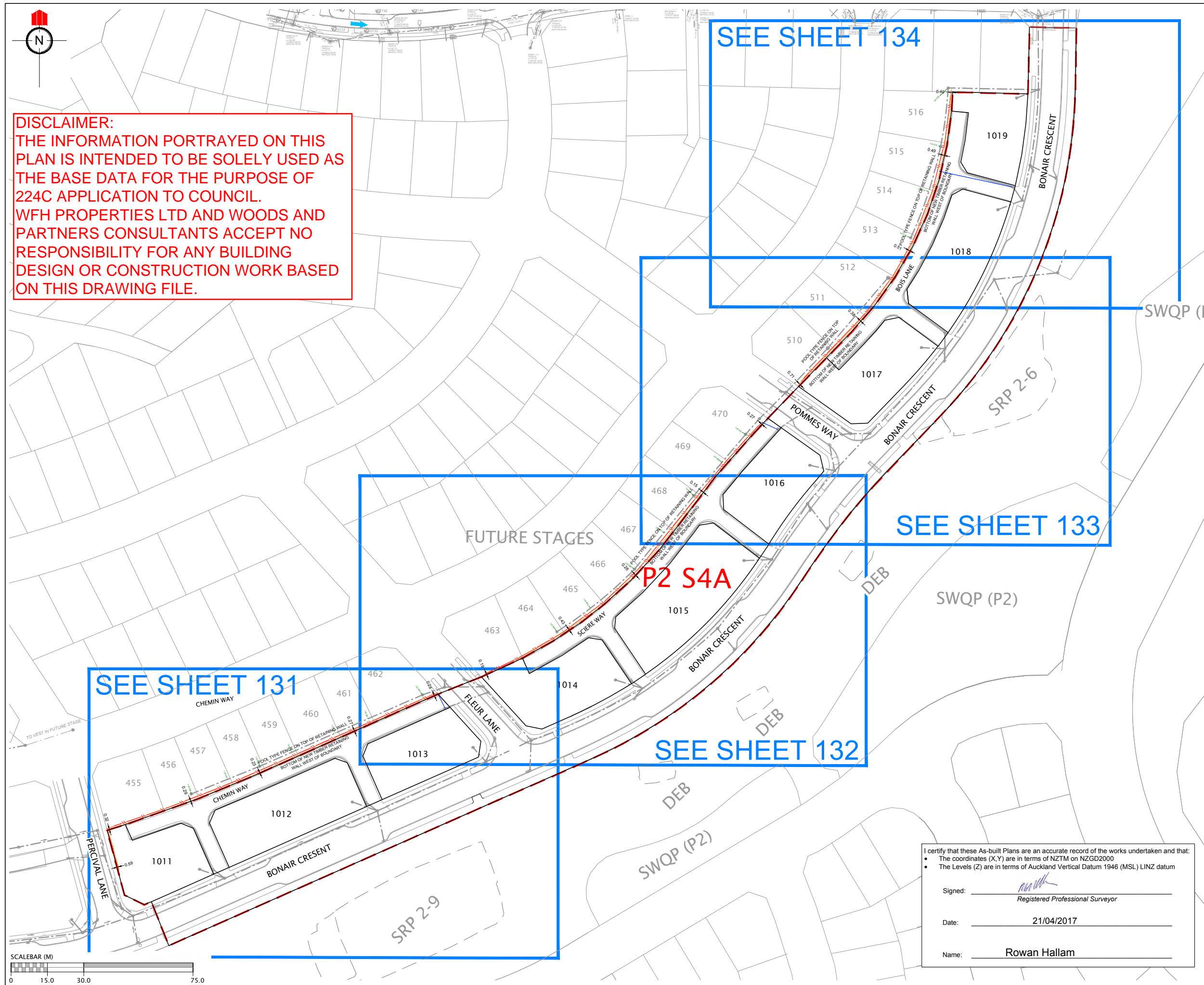
CLIENT:
WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 4A**

**SHEAR KEY, UNDERCUTS &
SUBSOIL DRAINS
AS-BUILT PLAN
PAGE 3 OF 3**
AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: HICKS
JOB NUMBER: 33218	SCALE: 1:1000 @ A3
ISSUED: APRIL 2017	
DWG. NO. 33218-04A-122-AB	REV.



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REVISION DETAILS		NAME	DATE

NOTE:
BOTTOM FACE OF WALL AS SHOWN IS FRONT FACE OF WOODEN POSTS

BOTTOM FACE OF WALL AS SHOWN ON PLAN

POSTS

WOODEN RETAINING WALL

LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- EXISTING WALL
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCES
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE

CLIENT:

WFH
PROPERTIES

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 4A**

**RETAINING WALL AS-BUILT
PAGE 1 OF 5**

AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:1500 @ A3
ISSUED: MARCH 2017	
DWG. NO. 33218-04A-130-AB	REV. 2

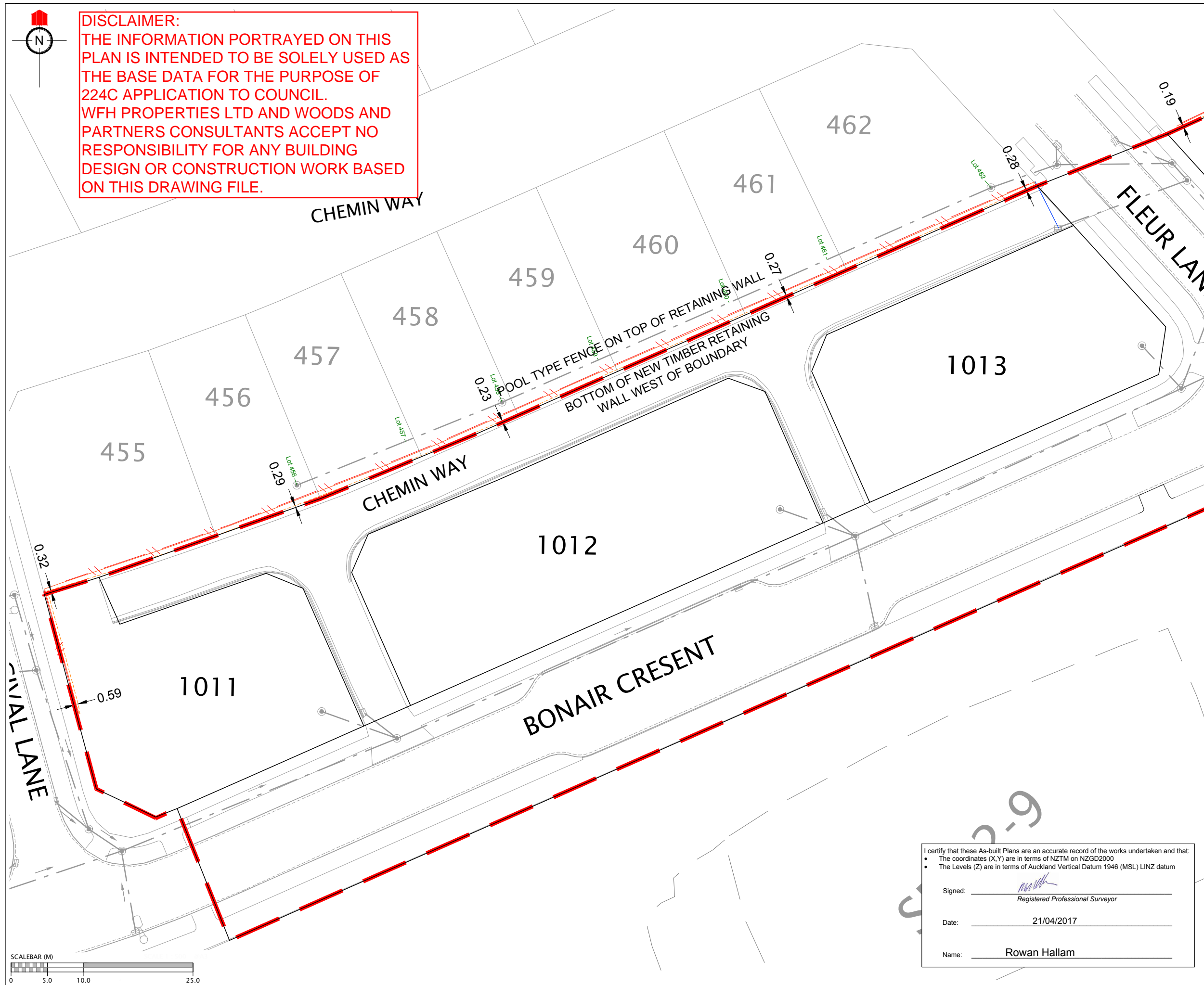
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 21/04/2017


Name: Rowan Hallam











REVISION DETAILS		NAME	DATE

NOTE:
BOTTOM FACE OF WALL AS SHOWN IS
FRONT FACE OF WOODEN POSTS


BOTTOM FACE OF WALL
AS SHOWN ON PLAN

POSTS 
WOODEN RETAINING WALL


LEGEND:

-  BOTTOM FACE OF WALL
-  TOP FACE OF WALL
-  EXISTING WALL
-  CATCH PIT/BERM SUMP
-  STORMWATER MANHOLE
-  FENCES
-  STORMWATER LINE
-  BOUNDARY
-  WALL DRAINAGE

CLIENT:



WFH
PROPERTIES



WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 4A**


**RETAINING WALL AS-BUILT
PAGE 2 OF 5**

AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:500 @ A3
ISSUED: MARCH 2017	
DWG. NO. 33218-04A-131-AB	REV.

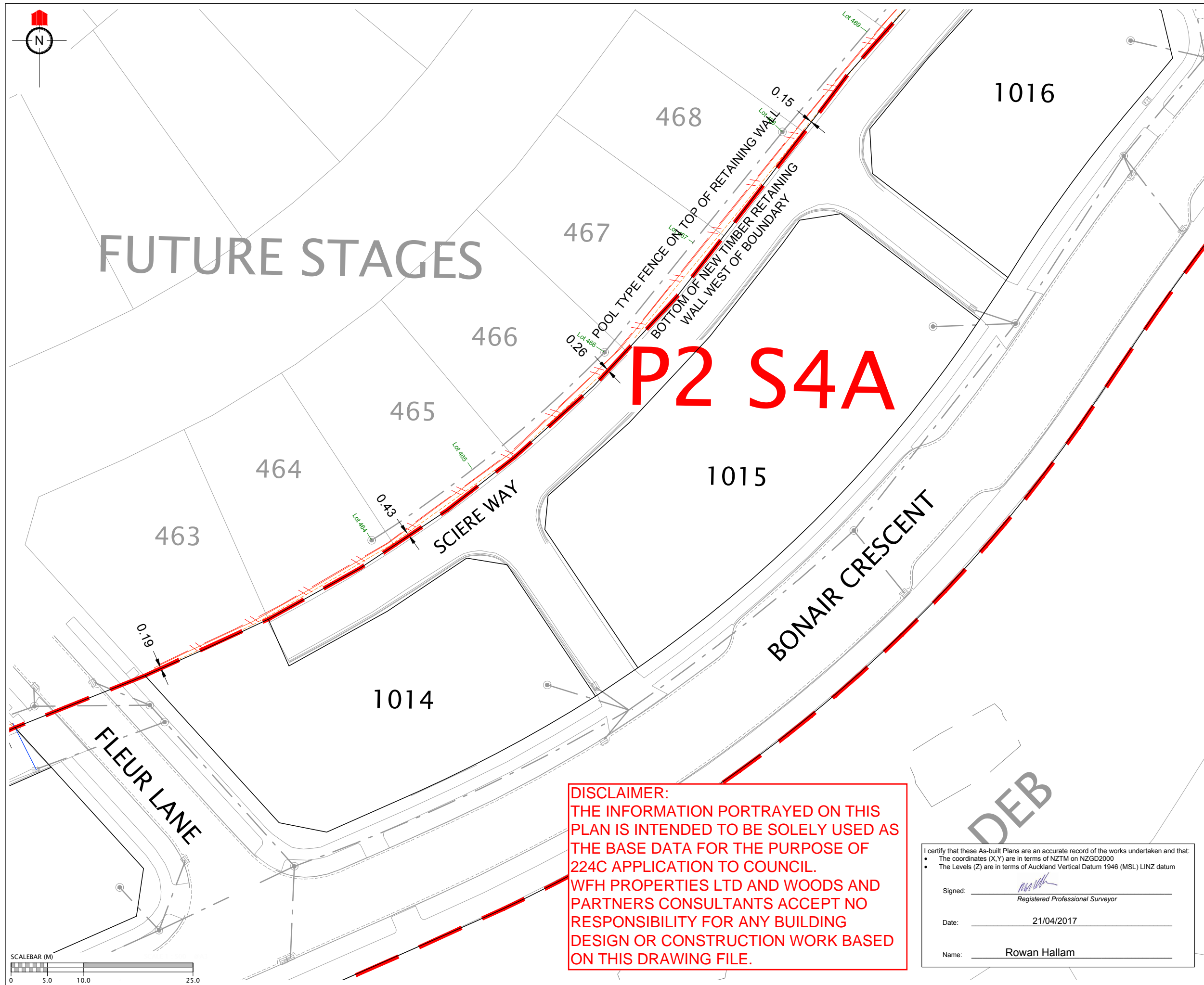
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REVISION DETAILS		NAME	DATE

NOTE:
BOTTOM FACE OF WALL AS SHOWN IS
FRONT FACE OF WOODEN POSTS


BOTTOM FACE OF WALL
AS SHOWN ON PLAN

POSTS 
WOODEN RETAINING WALL


LEGEND:

-  BOTTOM FACE OF WALL
-  TOP FACE OF WALL
-  EXISTING WALL
-  CATCH PIT/BERM SUMP
-  STORMWATER MANHOLE
-  FENCES
-  STORMWATER LINE
-  BOUNDARY
-  WALL DRAINAGE

CLIENT:



WFH
PROPERTIES



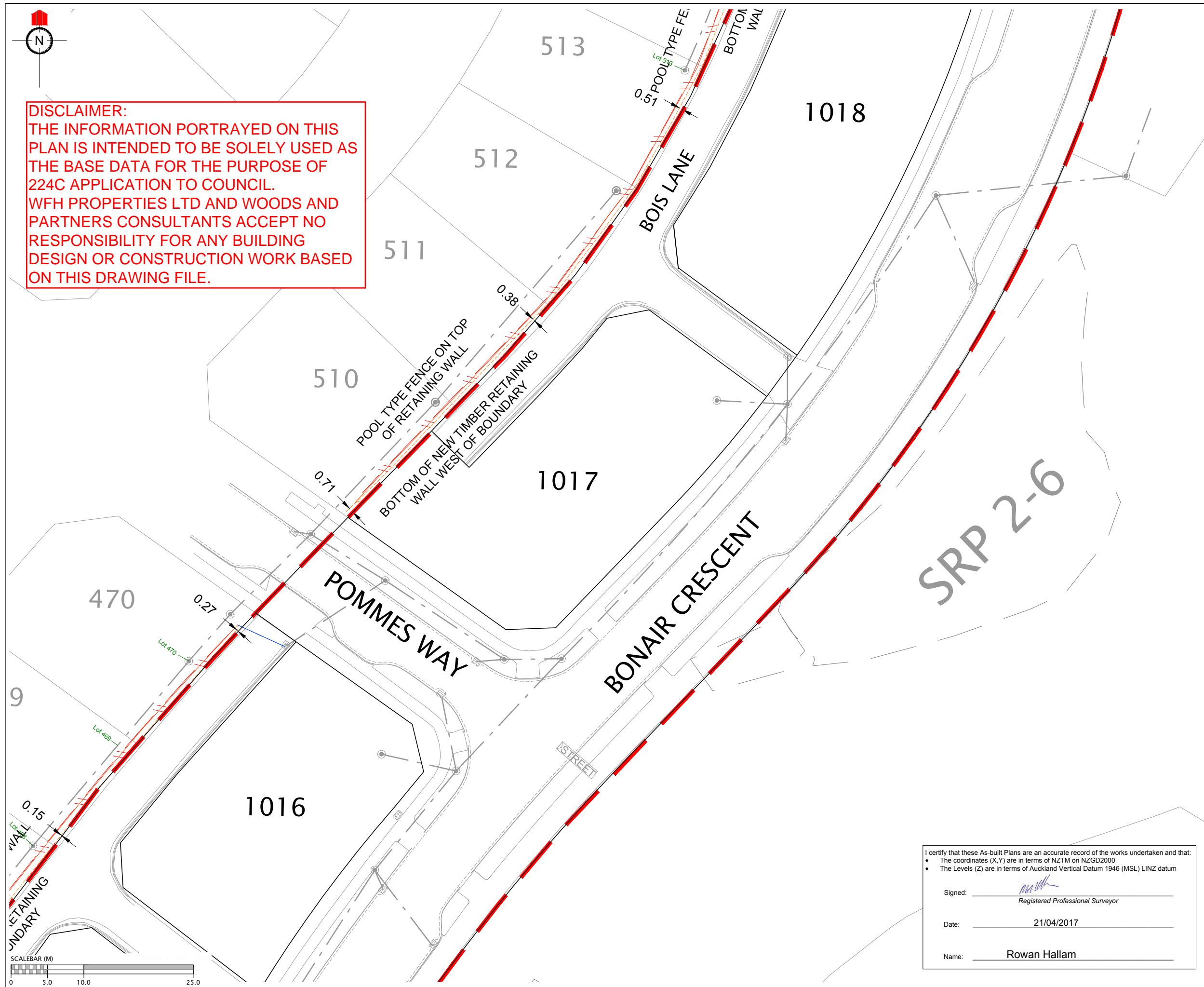
WOODS
Engineers. Surveyors. Planners.




MILLWATER
PRECINCT 2
STAGE 4A

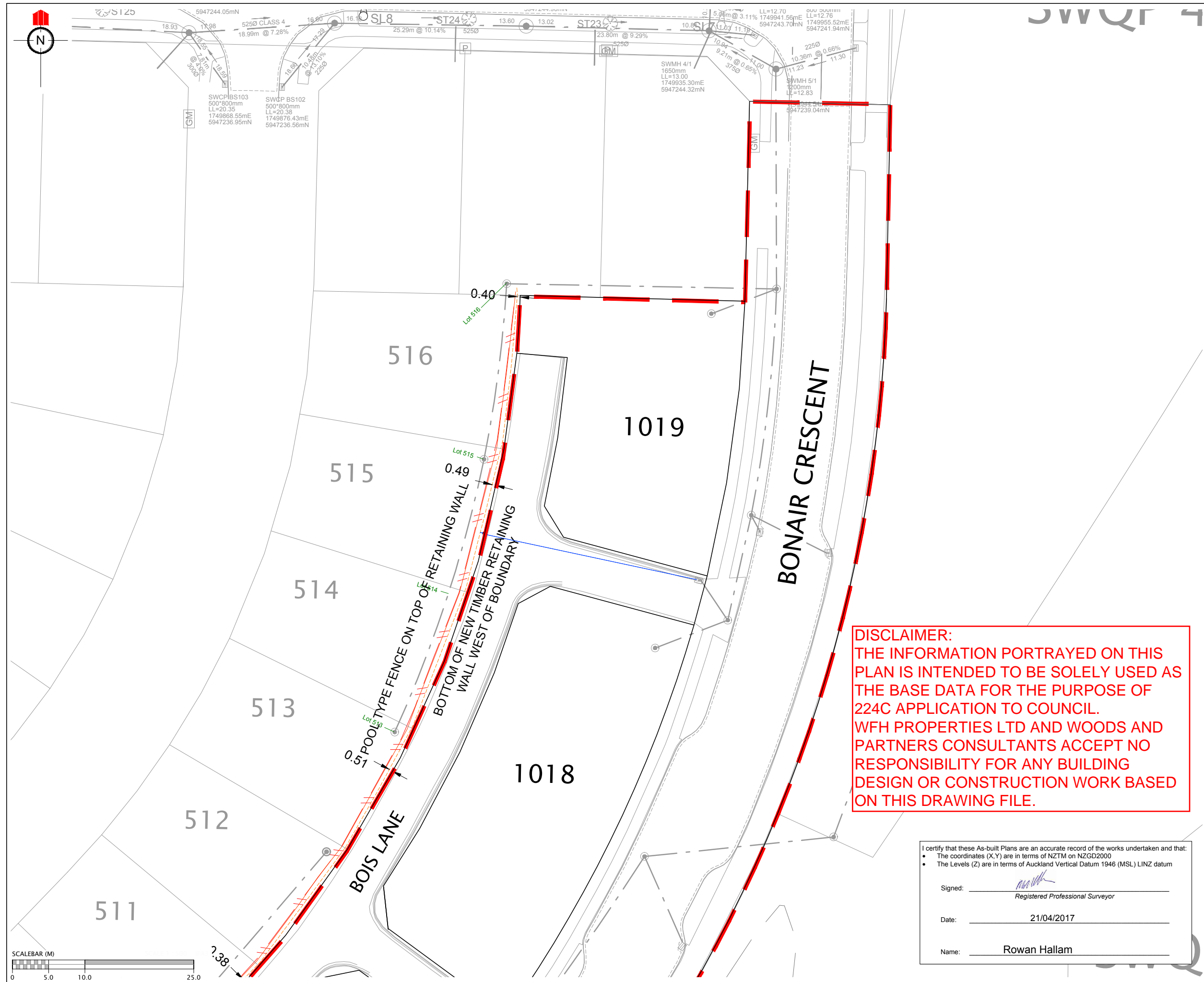
RETAINING WALL AS-BUILT
PAGE 3 OF 5















AUCKLAND COUNCIL

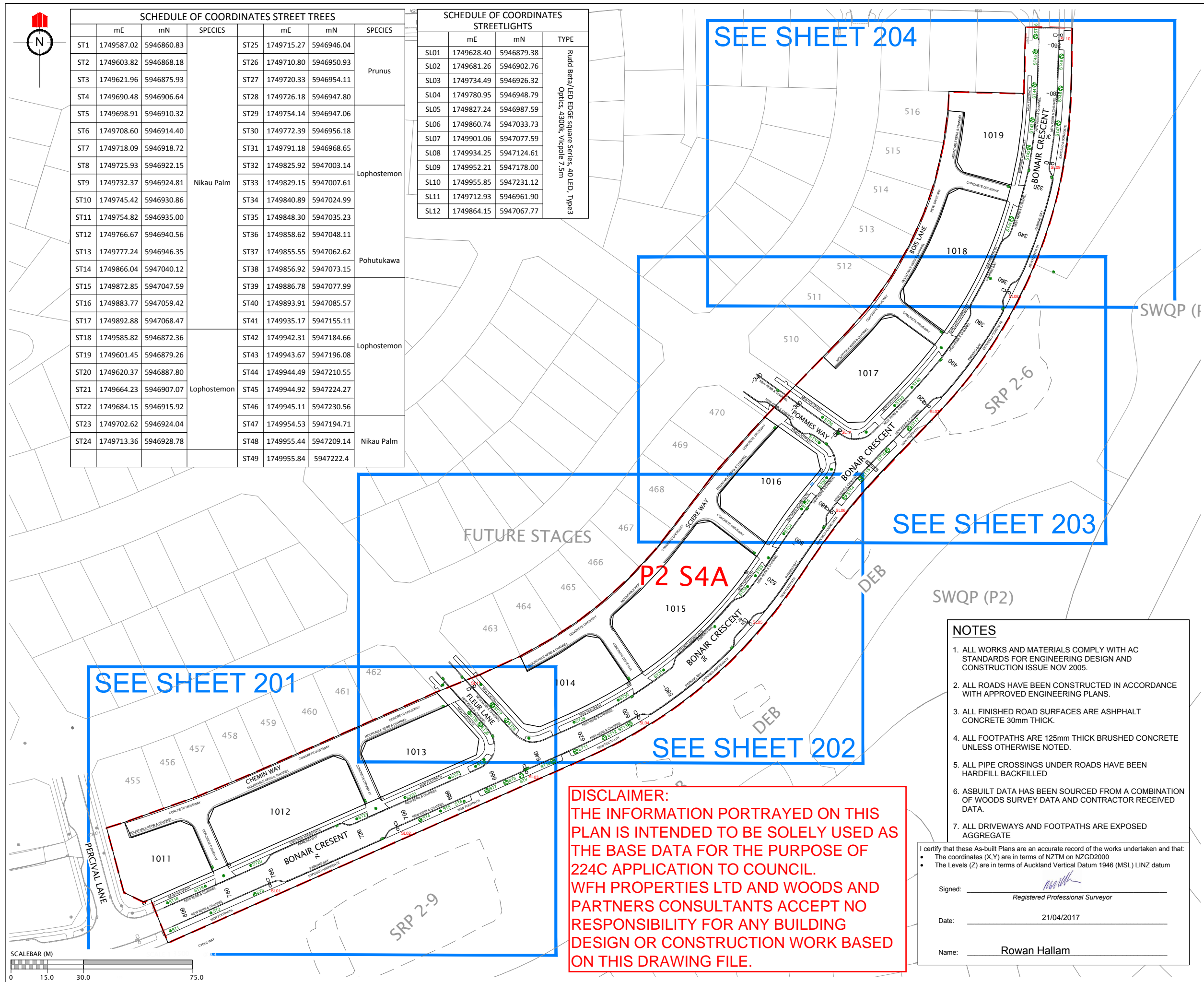
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CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:500 @ A3
ISSUED: MARCH 2017	
DWG. NO. 33218-04A-132-AB	REV.



REVISION DETAILS		NAME	DATE
NOTE: BOTTOM FACE OF WALL AS SHOWN IS FRONT FACE OF WOODEN POSTS			
BOTTOM FACE OF WALL AS SHOWN ON PLAN POSTS  WOODEN RETAINING WALL			
LEGEND: - BOTTOM FACE OF WALL - TOP FACE OF WALL - EXISTING WALL - CATCH PIT/BERM SUMP - STORMWATER MANHOLE - FENCES - STORMWATER LINE - BOUNDARY - WALL DRAINAGE			
CLIENT:  			
MILLWATER PRECINCT 2 STAGE 4A			
RETAINING WALL AS-BUILT PAGE 4 OF 5			
AUCKLAND COUNCIL			
DESIGNED: AC	ASBUILT		
CHECKED: KR	DRAWN: KR		
APPROVED: MRH	SURVEYED: WOODS		
JOB NUMBER: 33218	SCALE: 1:500 @ A3		
ISSUED: MARCH 2017			
DWG. NO. 33218-04A-133-AB	REV.		



REVISION DETAILS		NAME	DATE
NOTE: BOTTOM FACE OF WALL AS SHOWN IS FRONT FACE OF WOODEN POSTS			
BOTTOM FACE OF WALL AS SHOWN ON PLAN POSTS    WOODEN RETAINING WALL			
LEGEND:  BOTTOM FACE OF WALL  TOP FACE OF WALL  EXISTING WALL  CATCH PIT/BERM SUMP  STORMWATER MANHOLE  FENCES  STORMWATER LINE  BOUNDARY  WALL DRAINAGE			
CLIENT:			
			
			
MILLWATER PRECINCT 2 STAGE 4A			
RETAINING WALL AS-BUILT PAGE 5 OF 5			
AUCKLAND COUNCIL			
DESIGNED:	AC	ASBUILT	
CHECKED:	KR	DRAWN:	KR
APPROVED:	MRH	SURVEYED:	WOODS
JOB NUMBER:	33218	SCALE:	1:500 @ A3
ISSUED:	MARCH 2017		
DWG. NO.	33218-04A-134-AB	REV.	



REVISION DETAILS

NAME

DATE

LEGEND

STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

STAGE EXTENTS

SS BOUNDARY KIT

SS ISOLATION VALVE

SS FLUSHING POINT

SS AIR VALVE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

POWER BOX

TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4AROADING AS-BUILT
PAGE 1 OF 5

AUCKLAND COUNCIL

DESIGNED: AC

CHECKED: KR

APPROVED: MRH

JOB NUMBER: 33218

ISSUED: MARCH 2017

DWG. NO. 33218-04A-200-AB

ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:1500 @ A3

REV.

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.

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

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

4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE UNLESS OTHERWISE NOTED.

5. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED

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

7. ALL DRIVEWAYS AND FOOTPATHS ARE EXPOSED AGGREGATE

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

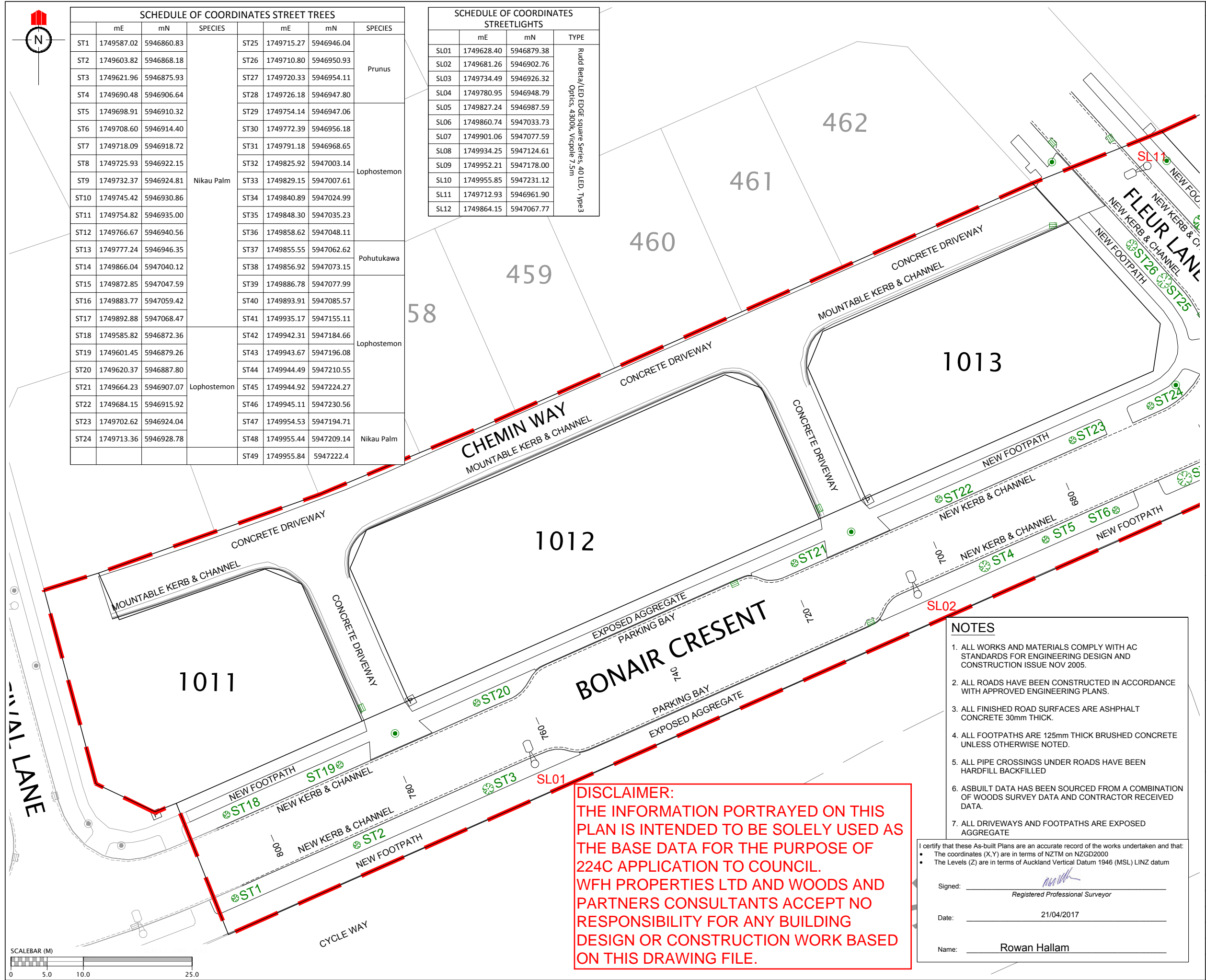
Date: 21/04/2017

Name: Rowan Hallam

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



SCHEDULE OF COORDINATES STREET TREES					
	mE	mN	SPECIES		
ST1	1749587.02	5946860.83	Nikau Palm	ST25	1749715.27 5946946.04
ST2	1749603.82	5946868.18		ST26	1749710.80 5946950.93
ST3	1749621.96	5946875.93		ST27	1749720.33 5946954.11
ST4	1749690.48	5946906.64		ST28	1749726.18 5946947.80
ST5	1749698.91	5946910.32	Lophostemon	ST29	1749754.14 5946947.06
ST6	1749708.60	5946914.40		ST30	1749772.39 5946956.18
ST7	1749718.09	5946918.72		ST31	1749791.18 5946968.65
ST8	1749725.93	5946922.15		ST32	1749825.92 5947003.14
ST9	1749732.37	5946924.81	Lophostemon	ST33	1749829.15 5947007.61
ST10	1749745.42	5946930.86		ST34	1749840.89 5947024.99
ST11	1749754.82	5946935.00		ST35	1749848.30 5947035.23
ST12	1749766.67	5946940.56		ST36	1749858.62 5947048.11
ST13	1749777.24	5946946.35	Pohutukawa	ST37	1749855.55 5947062.62
ST14	1749866.04	5947040.12		ST38	1749856.92 5947073.15
ST15	1749872.85	5947047.59		ST39	1749886.78 5947077.99
ST16	1749883.77	5947059.42		ST40	1749893.91 5947085.57
ST17	1749892.88	5947068.47	Lophostemon	ST41	1749935.17 5947155.11
ST18	1749585.82	5946872.36		ST42	1749942.31 5947184.66
ST19	1749601.45	5946879.26		ST43	1749943.67 5947196.08
ST20	1749620.37	5946887.80		ST44	1749944.49 5947210.55
ST21	1749664.23	5946907.07	Nikau Palm	ST45	1749944.92 5947224.27
ST22	1749684.15	5946915.92		ST46	1749945.11 5947230.56
ST23	1749702.62	5946924.04		ST47	1749954.53 5947194.71
ST24	1749713.36	5946928.78		ST48	1749955.44 5947209.14
				ST49	1749955.84 5947222.4

SCHEDULE OF COORDINATES STREETLIGHTS			
	mE	mN	TYPE
SL01	1749628.40	5946879.38	Rudd Beta/LED Edge square Series 40 LED Type3 Optics 4300K, Vapour 7.5m
SL02	1749681.26	5946902.76	
SL03	1749734.49	5946926.32	
SL04	1749780.95	5946948.79	
SL05	1749827.24	5946987.59	
SL06	1749860.74	5947033.73	
SL07	1749901.06	5947077.59	
SL08	1749934.25	5947124.61	
SL09	1749952.21	5947178.00	
SL10	1749955.85	5947231.12	
SL11	1749712.93	5946961.90	
SL12	1749864.15	5947067.77	

REVISION DETAILS

NAME

DATE

LEGEND

STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

STAGE EXTENTS

SS BOUNDARY KIT

SS ISOLATION VALVE

SS FLUSHING POINT

SS AIR VALVE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

POWER BOX

TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4AROADING AS-BUILT
PAGE 2 OF 5

AUCKLAND COUNCIL

DESIGNED: AC

CHECKED: KR

APPROVED: MRH

JOB NUMBER: 33218

ISSUED: MARCH 2017

DWG. NO. 33218-04A-201-AB

ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:500 @ A3

REV.

- NOTES
1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION ISSUE NOV 2005.

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

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

4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE UNLESS OTHERWISE NOTED.

5. ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED

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

7. ALL DRIVEWAYS AND FOOTPATHS ARE EXPOSED AGGREGATE

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: _____

21/04/2017

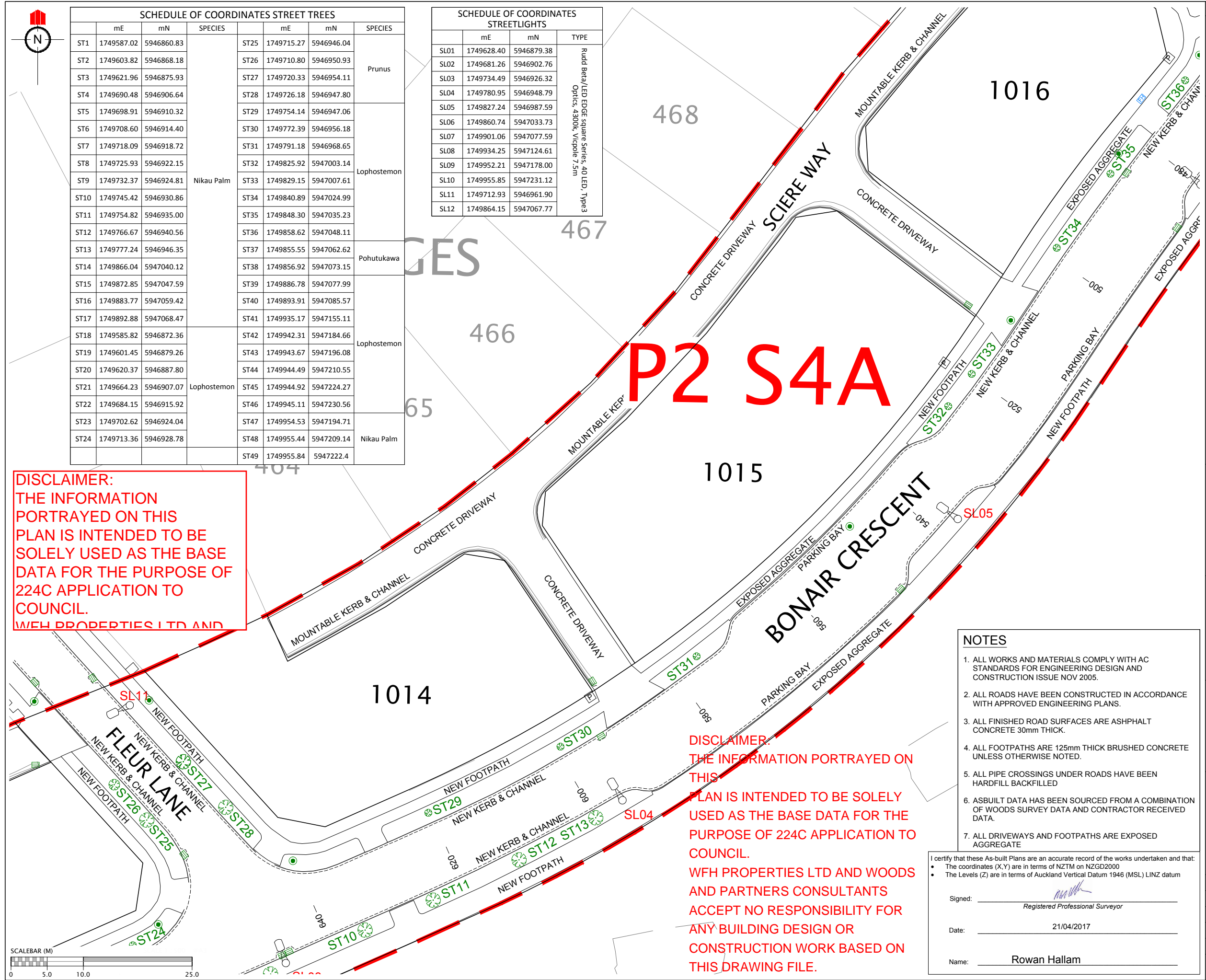
Name: _____

Rowan Hallam

DISCLAIMER:

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



SCHEDULE OF COORDINATES STREET TREES					
	mE	mN	SPECIES		
ST1	1749587.02	5946860.83	Nikau Palm	ST25	1749715.27 5946946.04
ST2	1749603.82	5946868.18		ST26	1749710.80 5946950.93
ST3	1749621.96	5946875.93		ST27	1749720.33 5946954.11
ST4	1749690.48	5946906.64		ST28	1749726.18 5946947.80
ST5	1749698.91	5946910.32		ST29	1749754.14 5946947.06
ST6	1749708.60	5946914.40	Lophostemon	ST30	1749772.39 5946956.18
ST7	1749718.09	5946918.72		ST31	1749791.18 5946968.65
ST8	1749725.93	5946922.15		ST32	1749825.92 5947003.14
ST9	1749732.37	5946924.81		ST33	1749829.15 5947007.61
ST10	1749745.42	5946930.86		ST34	1749840.89 5947024.99
ST11	1749754.82	5946935.00	Pohutukawa	ST35	1749848.30 5947035.23
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				ST49	1749955.84 5947222.4

SCHEDULE OF COORDINATES STREETLIGHTS			
	mE	mN	TYPE
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SL02	1749681.26	5946902.76	
SL03	1749734.49	5946926.32	
SL04	1749780.95	5946948.79	
SL05	1749827.24	5946987.59	
SL06	1749860.74	5947033.73	
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SL08	1749934.25	5947124.61	
SL09	1749952.21	5947178.00	
SL10	1749955.85	5947231.12	
SL11	1749712.93	5946961.90	
SL12	1749864.15	5947067.77	

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PORTRAYED ON THIS
PLAN IS INTENDED TO BE
SOLELY USED AS THE BASE
DATA FOR THE PURPOSE OF
224C APPLICATION TO
COUNCIL.
WFH PROPERTIES LTD AND

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USED AS THE BASE DATA FOR THE
PURPOSE OF 224C APPLICATION TO
COUNCIL.
WFH PROPERTIES LTD AND WOODS
AND PARTNERS CONSULTANTS
ACCEPT NO RESPONSIBILITY FOR
ANY BUILDING DESIGN OR
CONSTRUCTION WORK BASED ON
THIS DRAWING FILE.

NOTES

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- ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE UNLESS OTHERWISE NOTED.
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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: 21/04/2017

Name: Rowan Hallam

REVISION DETAILS

NAME

DATE

LEGEND

STREET LIGHT

ROAD NAME SIGN

CATCH PIT/BERM SUMP

STORMWATER MANHOLE

RG-6 SIGN (GIVE WAY)

STREET TREE

STAGE EXTENTS

SS BOUNDARY KIT

SS ISOLATION VALVE

SS FLUSHING POINT

SS AIR VALVE

WATER SLUICE VALVE

WATER PEET VALVE

WATER FIRE HYDRANT

POWER BOX

TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH PROPERTIES

WOODS

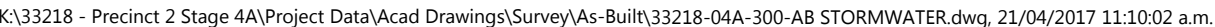
Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4A

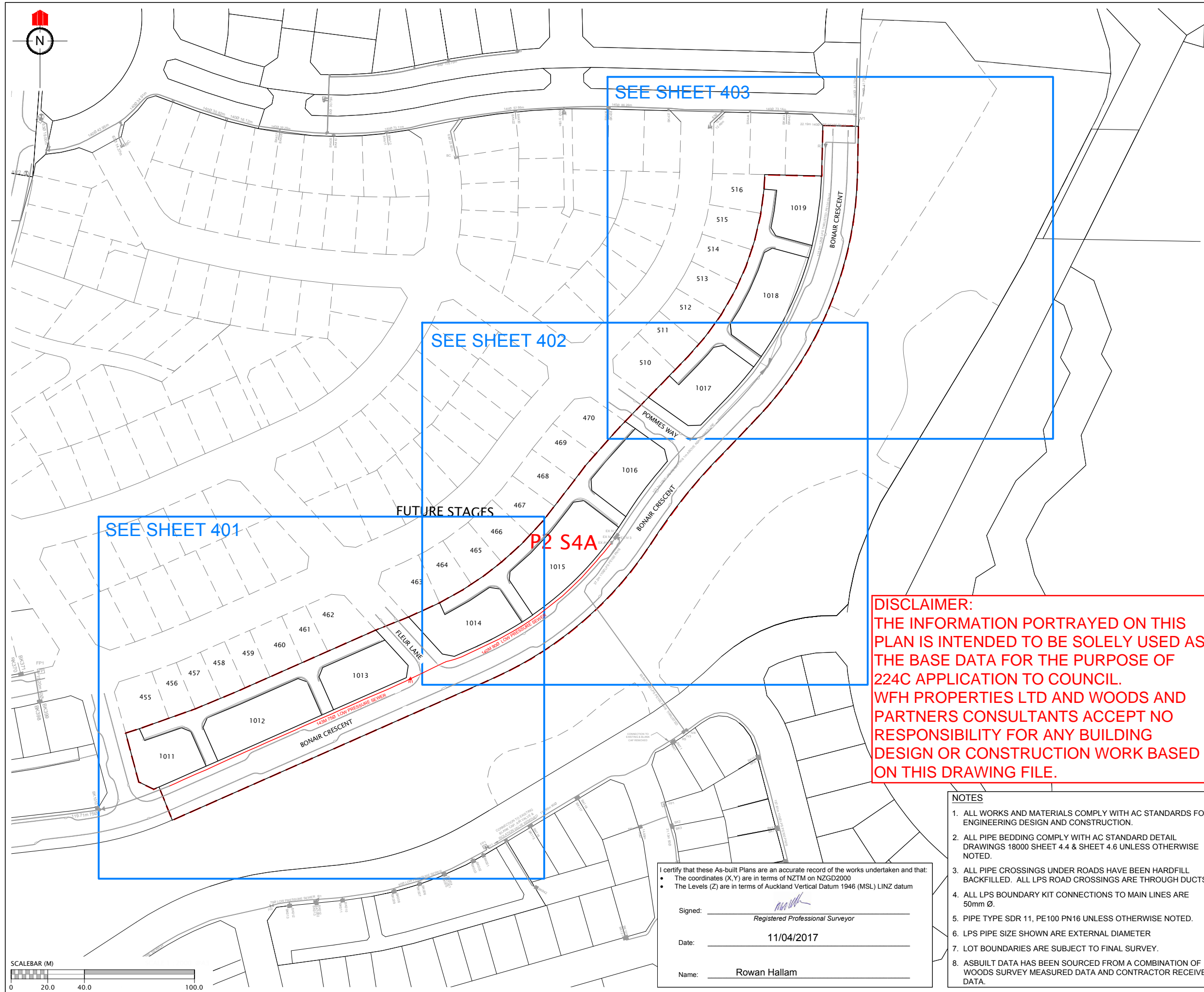
ROADING AS-BUILT
PAGE 3 OF 5

AUCKLAND COUNCIL

DESIGNED: AC	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:500 @ A3
ISSUED: MARCH 2017	
DWG. NO. 33218-04A-202-AB	REV.



REVISION DETAILS		NAME	DATE
<div><div>LEGEND</div><div><div>STORMWATER MANHOLE</div><div>STORMWATER CESSPIT</div><div>STORMWATER DOUBLE CESSPIT</div><div>OVERLAND FLOW</div><div>NEW STORMWATER</div><div>EXISTING STORMWATER</div><div>RETAINING WALL DRAINAGE</div><div>STAGE BOUNDARY</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>			
CLIENT:			
<div><div><div>WFH</div><div>PROPERTIES</div></div><div></div></div>			
<div><div></div><div><div>WOODS</div><div>Engineers. Surveyors. Planners.</div></div></div>			
<div><div>MILLWATER</div><div>PRECINCT 2</div><div>STAGE 4A</div></div>			
<div><div>STORMWATER AS-BUILT</div><div>Sheet 5 of 5</div></div>			
AUCKLAND COUNCIL			
DESIGNED: AC		ASBUILT	
CHECKED: KR		DRAWN: SP	
APPROVED: MRH		SURVEYED: WOODS	
JOB NUMBER: 33218		SCALE: 1:500 @ A3	
ISSUED: MARCH 2017			
DWG. NO. 33218-4A-304-AB			REV.



REVISION DETAILS

NAME

DATE

LEGEND

BK60

IV

FP

AV

R

LOW PRESSURE SEWER

EXISTING LOW PRESSURE SEWER

STAGE BOUNDARY

BOUNDARY KIT

ISOLATION VALVE

FLUSHING POINT

AIR VALVE

REDUCER

SCHEDULE OF COORDINATES

	mE	Mn
REDUCER		
R1	1749714.82	5946932.36

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4A

WASTEWATER ASBUILT PLAN
SHEET 1 OF 4

AUCKLAND COUNCIL


DESIGNED: AC	AS-BUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:2000 @ A3
ISSUED: APRIL 2017	
DWG. NO. 33218-04A-400-AB	REV.

DISCLAIMER:
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- NOTES
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - 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.

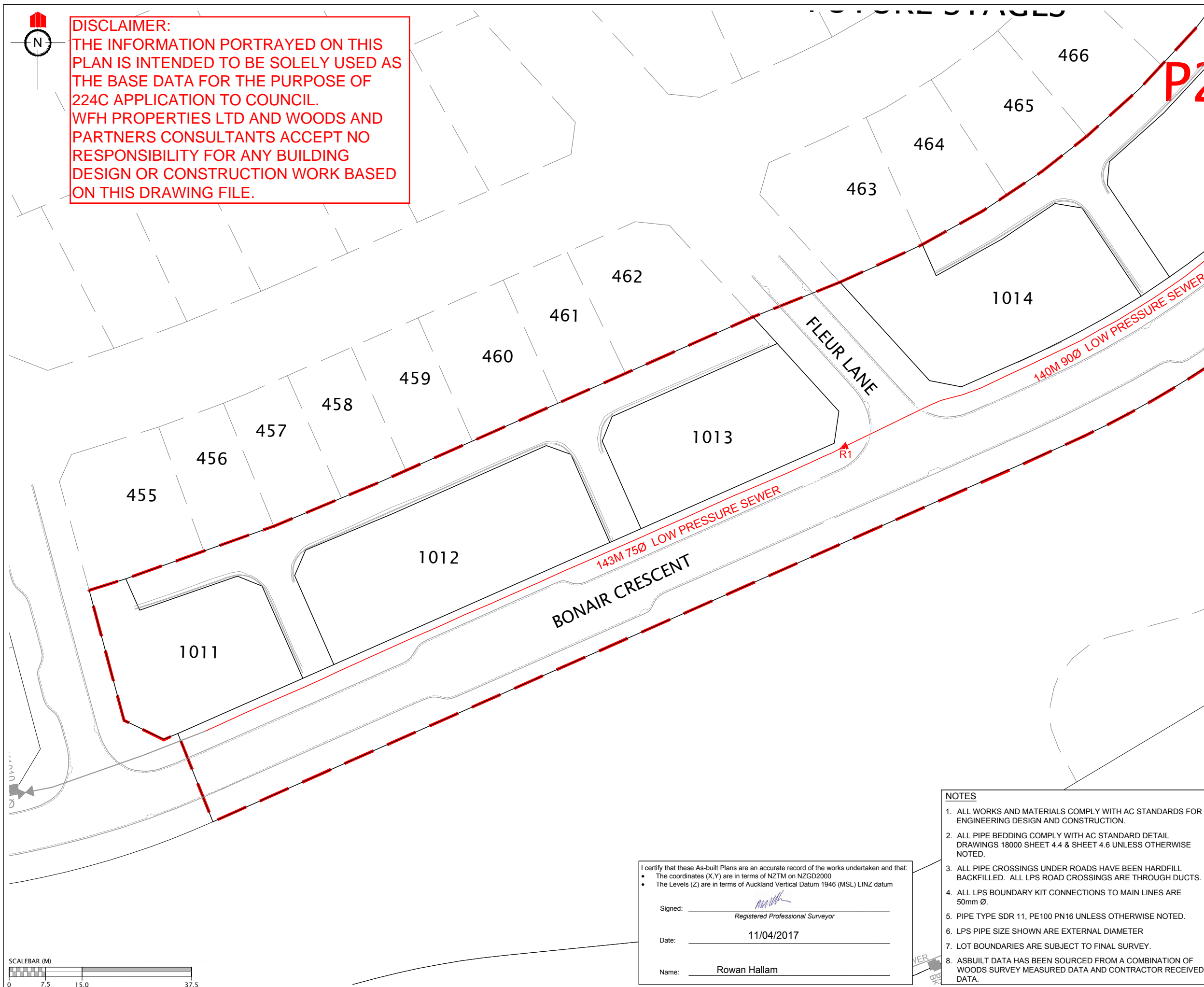
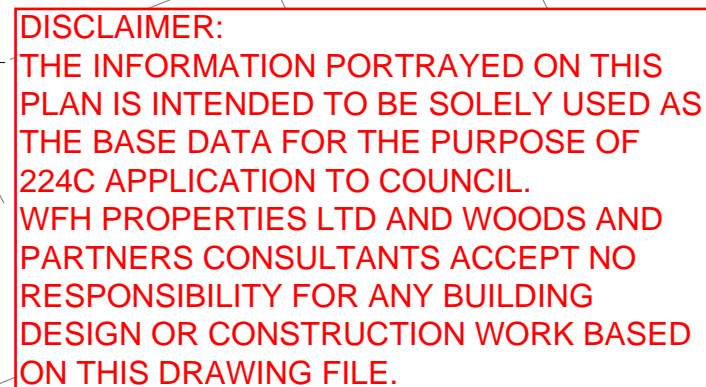
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 11/04/2017

Name: Rowan Hallam



REVISION DETAILS	NAME	DATE

LEGEND

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

SCHEDULE OF COORDINATES		
	mE	Mn
REDUCER		
R1	1749714.82	5946932.36

CLIENT:

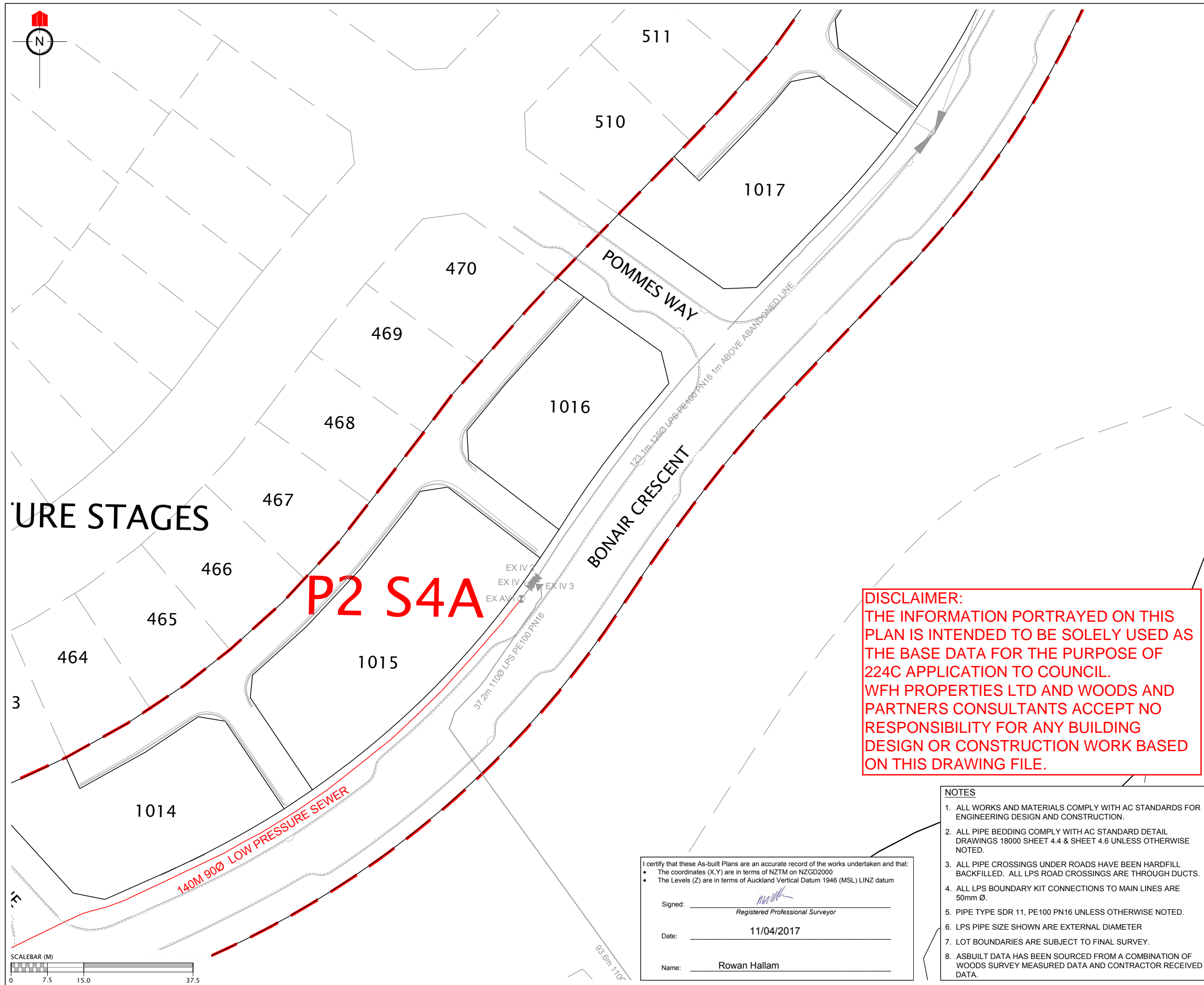


MILLWATER
PRECINCT 2
STAGE 4A

WASTEWATER ASBUILT PLAN
SHEET 2 OF 4

AUCKLAND COUNCIL

DESIGNED:	AC	AS-BUILT	
CHECKED:	KR	DRAWN:	KR
APPROVED:	MRH	SURVEYED:	WOODS
JOB NUMBER:	33218	SCALE:	1:750 @ A3
ISSUED:	APRIL 2017		
DWG. NO.	33218-04A-401-AB		REV.



REVISION DETAILS	NAME	DATE

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

SCHEDULE OF COORDINATES		
	mE	Mn
	REDUCER	
R1	1749714.82	5946932.36

CLIENT:

WOODS
Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4A

WASTEWATER ASBUILT PLAN
SHEET 3 OF 4

AUCKLAND COUNCIL

DESIGNED: AC	AS-BUILT
CHECKED: KR	DRAWN: KR
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33218	SCALE: 1:750 @ A3
ISSUED: APRIL 2017	
DWG. NO. 33218-04A-402-AB	REV.

DISCLAIMER:
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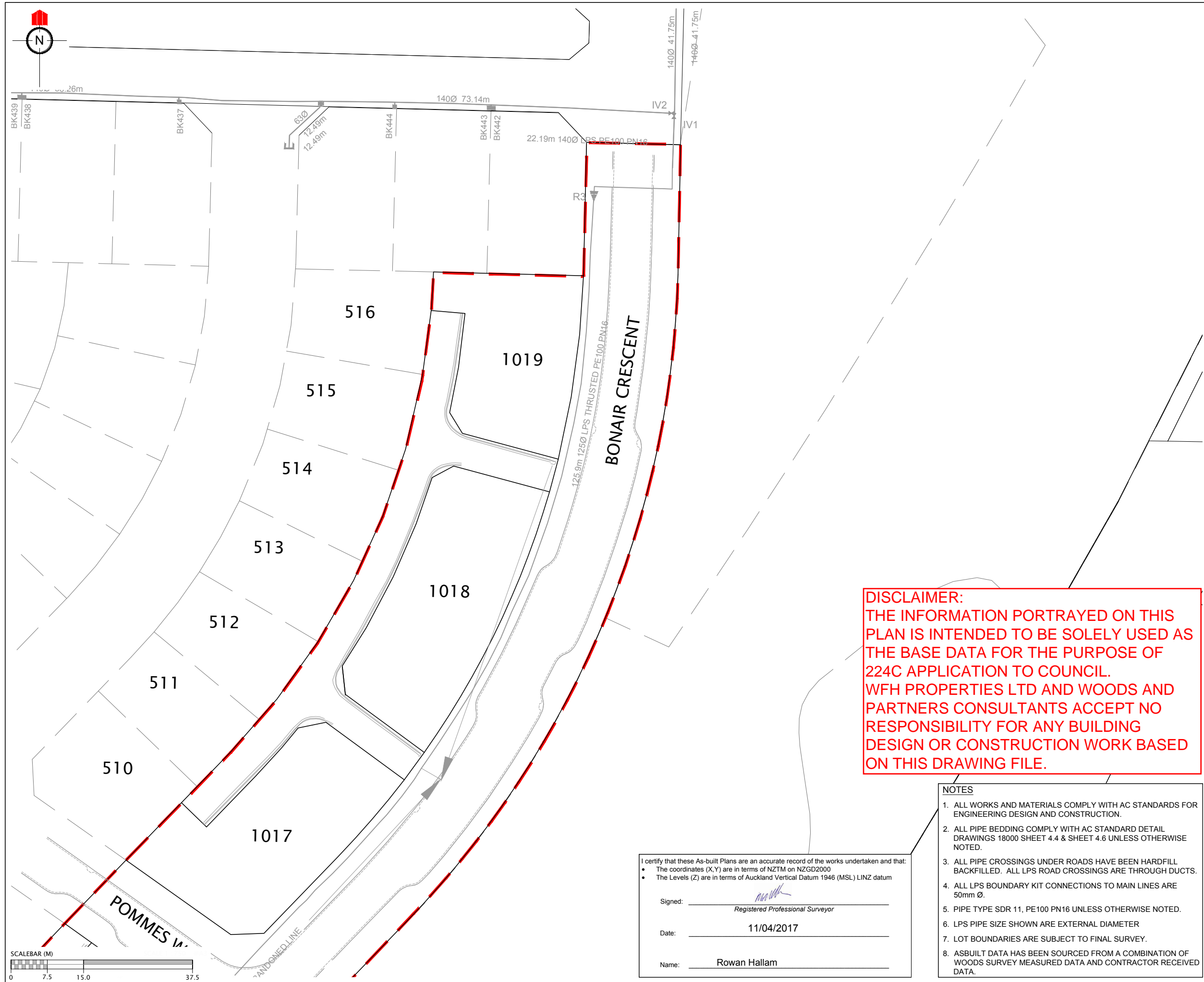
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Signed: Registered Professional Surveyor

Date: 11/04/2017

Name: Rowan Hallam



REVISION DETAILS

NAME

DATE

LEGEND

BK60

IV

FP

AV

R

LOW PRESSURE SEWER

EXISTING LOW PRESSURE SEWER

STAGE BOUNDARY

BOUNDARY KIT

ISOLATION VALVE

FLUSHING POINT

AIR VALVE

REDUCER

LOW PRESSURE SEWER

EXISTING LOW PRESSURE SEWER

STAGE BOUNDARY

SCHEDULE OF COORDINATES

	mE	Mn
REDUCER		
R1	1749714.82	5946932.36

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4A

WASTEWATER ASBUILT PLAN
SHEET 4 OF 4

AUCKLAND COUNCIL

DESIGNED: AC

CHECKED: KR

APPROVED: MRH

JOB NUMBER: 33218

ISSUED: APRIL 2017

DWG. NO. 33218-04A-403-AB

AS-BUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:750 @ A3

REV.

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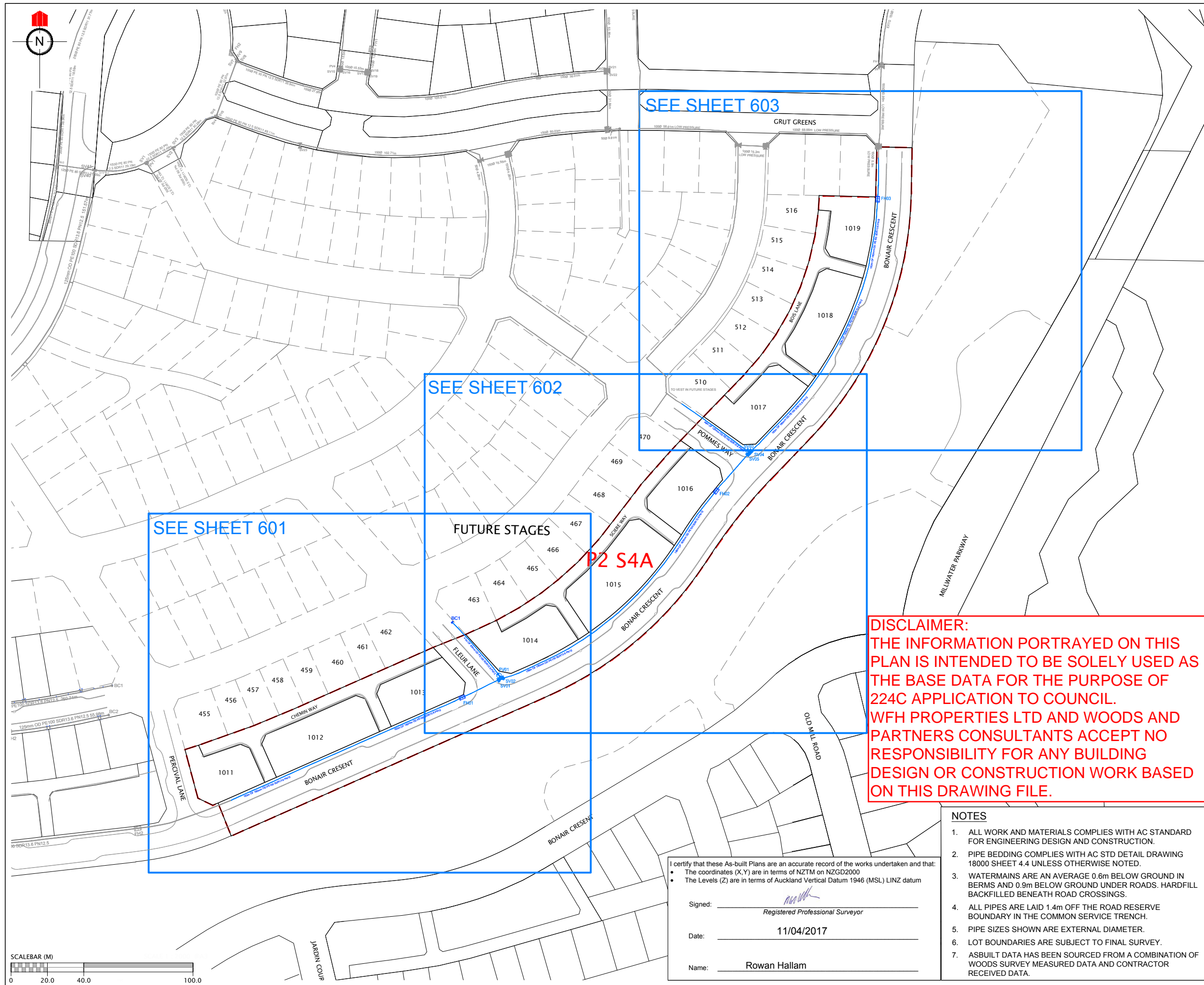
The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:

Rowan Hallam

Date: 11/04/2017

Name: Rowan Hallam



REVISION DETAILS

NAME

DATE

LEGEND

EXISTING WATERMAIN

HIGH PRESSURE WATERMAIN

SLUICE VALVE

PEET VALVE

FIRE HYDRANT

BLANK CAP

STAGE BOUNDARY

Schedule of Coordinates

Name	Easting	Northing
Fire Hydrants		
FH01	1749713.02	5946931.98
FH02	1749852.63	5947045.48
FH03	1749941.38	5947205.88
Sluice Valves		
SV01	1749733.98	5946941.96
SV02	1749734.49	5946942.22
SV03	1749870.61	5947066.26
SV04	1749871.03	5947066.76
SV05	1749870.49	5947066.91
Peet Valves		
PV01	1749733.31	5946944.04
Blank End Cap		
BC1	1749707.43	5946973.46

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2

STAGE 4A

WATERMAIN ASBUILT PLAN

SHEET 1 OF 4

AUCKLAND COUNCIL

DESIGNED: AC

CHECKED: KR

APPROVED: MRH

JOB NUMBER: 33218

ISSUED: APRIL 2017

DWG. NO. 33218-04A-600-AB

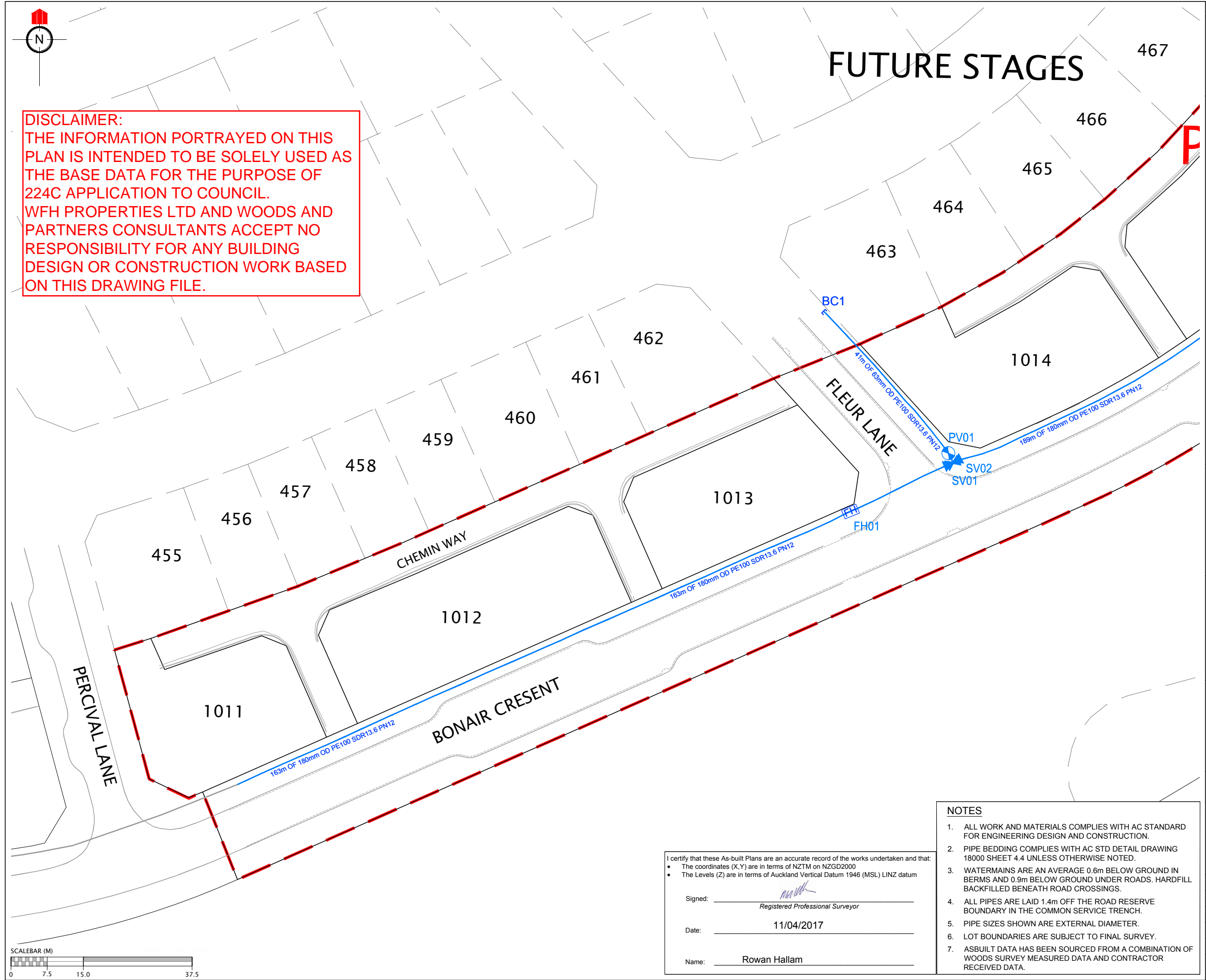
AS-BUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:2000 @ A3

REV.



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REVISION DETAILS

NAME

DATE

LEGEND

EXISTING WATERMAIN

HIGH PEASURE WATERMAIN

SLUICE VALVE

PEET VALVE

FIRE HYDRANT

BLANK CAP

STAGE BOUNDARY

Schedule of Coordinates

Name	Easting	Northing
Fire Hydrants		
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FH02	1749852.63	5947045.48
FH03	1749941.38	5947205.88
Sluice Valves		
SV01	1749733.98	5946941.96
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SV04	1749871.03	5947066.76
SV05	1749870.49	5947066.91
Peet Valves		
PV01	1749733.31	5946944.04
Blank End Cap		
BC1	1749707.43	5946973.46

CLIENT:

WFH

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WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4A

WATERMAIN ASBUILT PLAN
SHEET 2 OF 4

AUCKLAND COUNCIL

DESIGNED: AC

CHECKED: KR

APPROVED: MRH

JOB NUMBER: 33218

ISSUED: APRIL 2017

DWG. NO.

AS-BUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:750 @ A3

REV.

33218-04A-601-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: 11/04/2017

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.

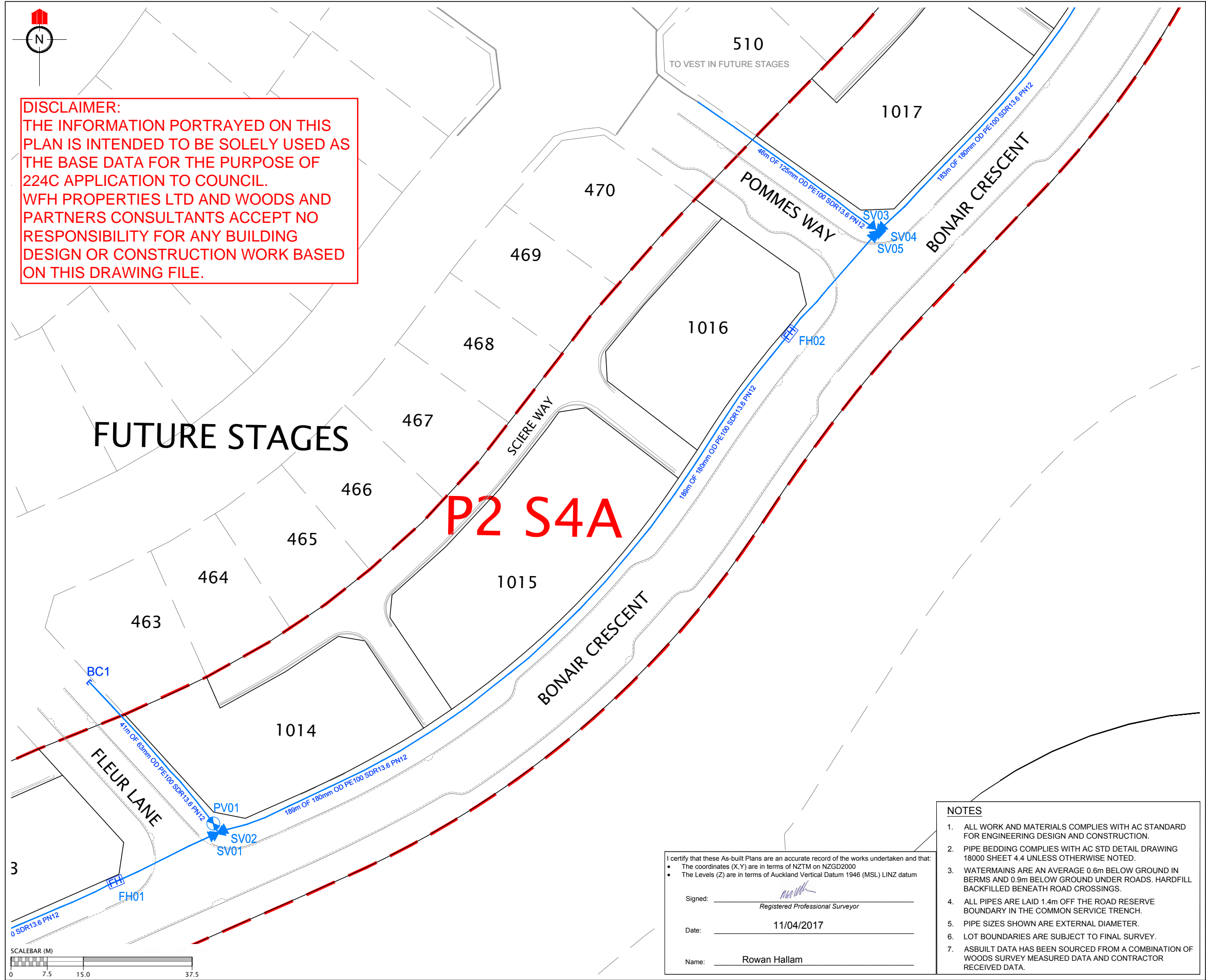
3. WATERMAINS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.

4. ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.

5. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.

6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.

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



DISCLAIMER:
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REVISION DETAILS

NAME

DATE

LEGEND

EXISTING WATERMAIN

HIGH PRESSURE WATERMAIN

SLUICE VALVE

PEET VALVE

FIRE HYDRANT

BLANK CAP

STAGE BOUNDARY

Schedule of Coordinates

Name	Easting	Northing
Fire Hydrants		
FH01	1749713.02	5946931.98
FH02	1749852.63	5947045.48
FH03	1749941.38	5947205.88
Sluice Valves		
SV01	1749733.98	5946941.96
SV02	1749734.49	5946942.22
SV03	1749870.61	5947066.26
SV04	1749871.03	5947066.76
SV05	1749870.49	5947066.91
Peet Valves		
PV01	1749733.31	5946944.04
Blank End Cap		
BC1	1749707.43	5946973.46

CLIENT:

WFH

PROPERTIES

WOODS

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MILLWATER
PRECINCT 2
STAGE 4A

WATERMAIN ASBUILT PLAN
SHEET 3 OF 4

AUCKLAND COUNCIL

DESIGNED: AC

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APPROVED: MRH

JOB NUMBER: 33218

ISSUED: APRIL 2017

DWG. NO.

AS-BUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:750 @ A3

REV.

33218-04A-602-AB

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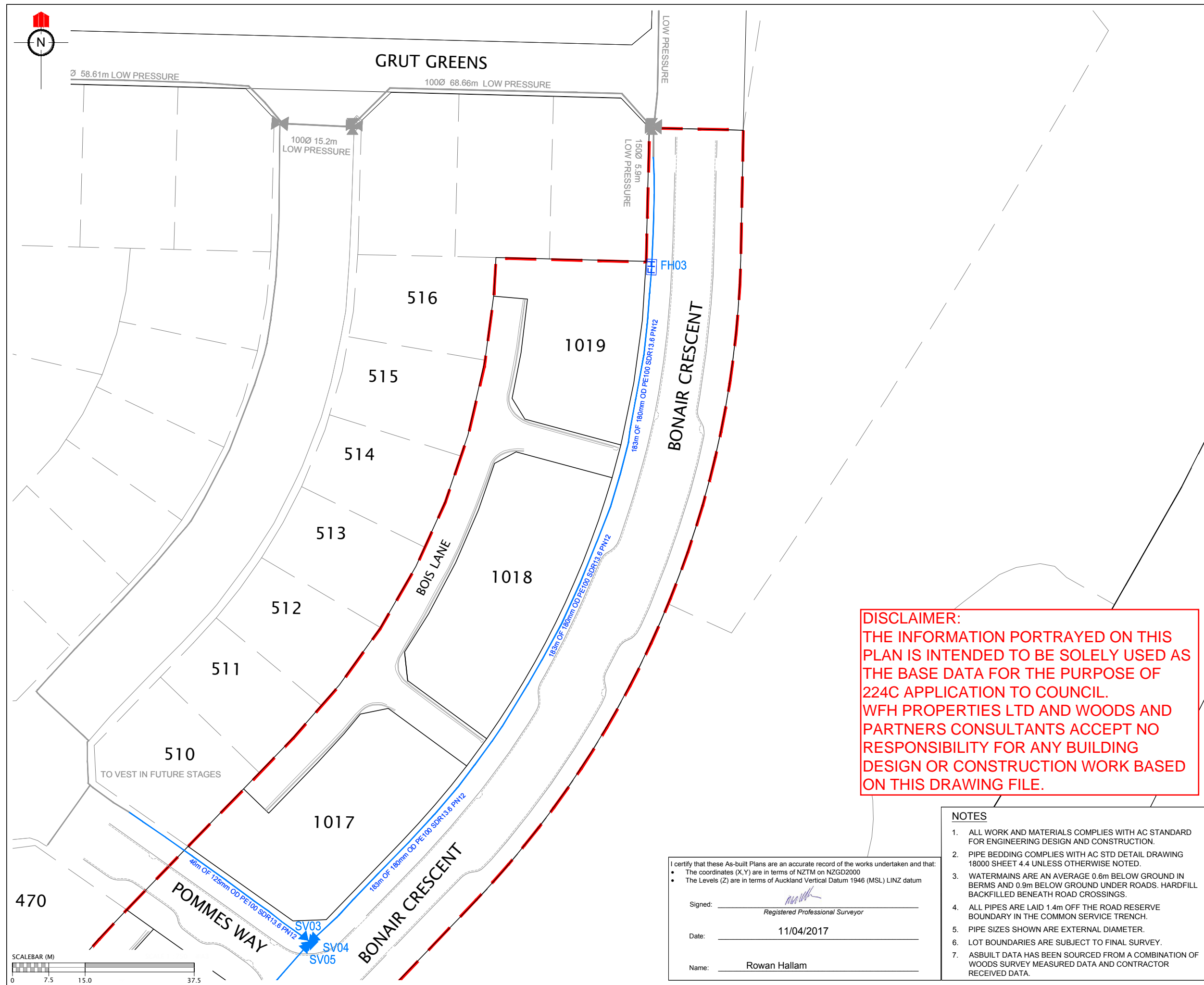
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Registered Professional Surveyor

Date: 11/04/2017

Name: Rowan Hallam

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REVISION DETAILS

NAME

DATE

LEGEND

EXISTING WATERMAIN

HIGH PRESSURE WATERMAIN

SLUICE VALVE SV1

PEET VALVE PV

FIRE HYDRANT FH

BLANK CAP BC1

STAGE BOUNDARY

Schedule of Coordinates

Name	Easting	Northing
Fire Hydrants		
FH01	1749713.02	5946931.98
FH02	1749852.63	5947045.48
FH03	1749941.38	5947205.88
Sluice Valves		
SV01	1749733.98	5946941.96
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CLIENT:

WFH

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MILLWATER
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SHEET 4 OF 4

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REV.

33218-04A-603-AB

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