

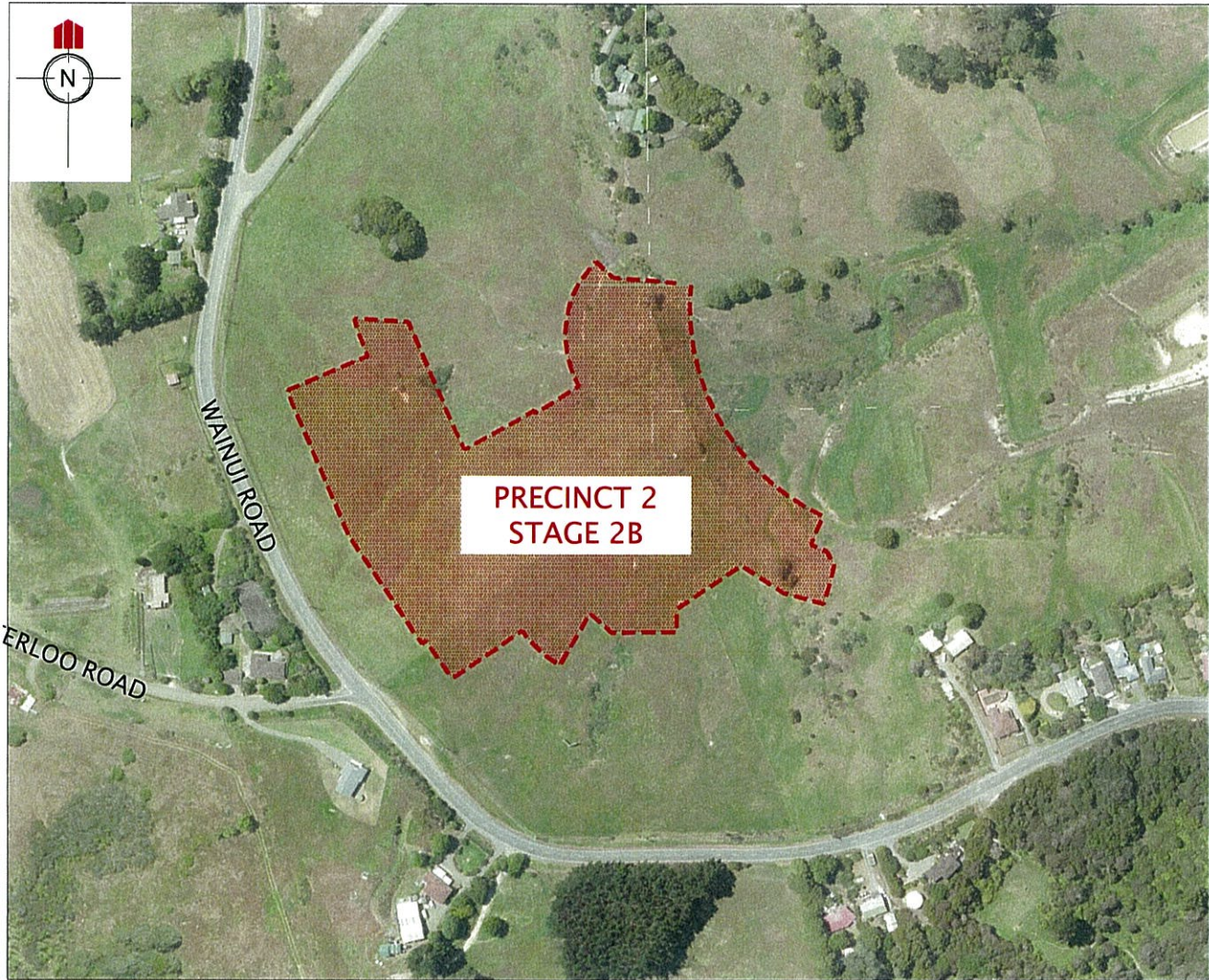
MILLWATER - PRECINCT 2 STAGE 2B

AS-BUILT DRAWINGS

CONTENT INDEX AND LOCALITY PLAN

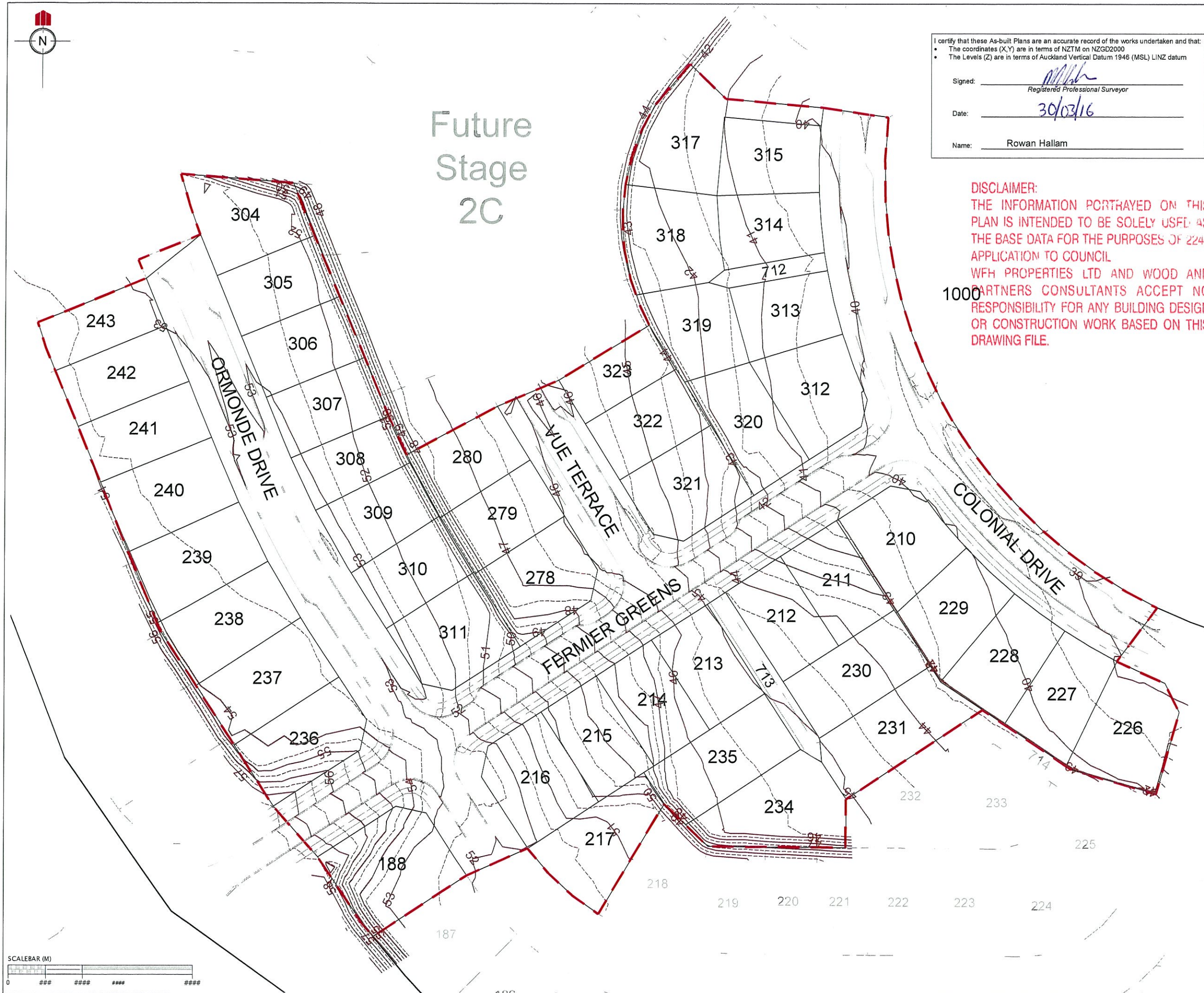
COVER PAGE	
000	Plans Index and Location Plan
MILLWATER - PRECINCT 2 STAGE 02B AS-BUILT DRAWINGS	
DWG NO	DESCRIPTION
100	Final Contour As-Built Plans
110	Cut/Fill Original Surface - Earthwork Surface As-Built Plans
111	Cut/Fill Earthworks Surface - Final Surface As-Built Plans
112	Cut/Fill Original Surface - Final Surface As-Built Plans
120	Cut/Fill - Shear Key, Undercut & Subsoil Drains As-Built
130	Retaining Walls As-Built Plans
200-204	Roading As-Built Plans
300-304	Stormwater As-Built Plans
400	Low Pressure Sewer As-Built Plan
600	Water Reticulation As-Built Plan

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.



LOCATION PLAN
NOT TO SCALE





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: _____
30/03/16

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.

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	24/03/16

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND	
————	CONTOURS MAJOR
-----	CONTOURS MINOR
- - - - -	STAGE BOUNDARIES
————	LOT BOUNDARIES

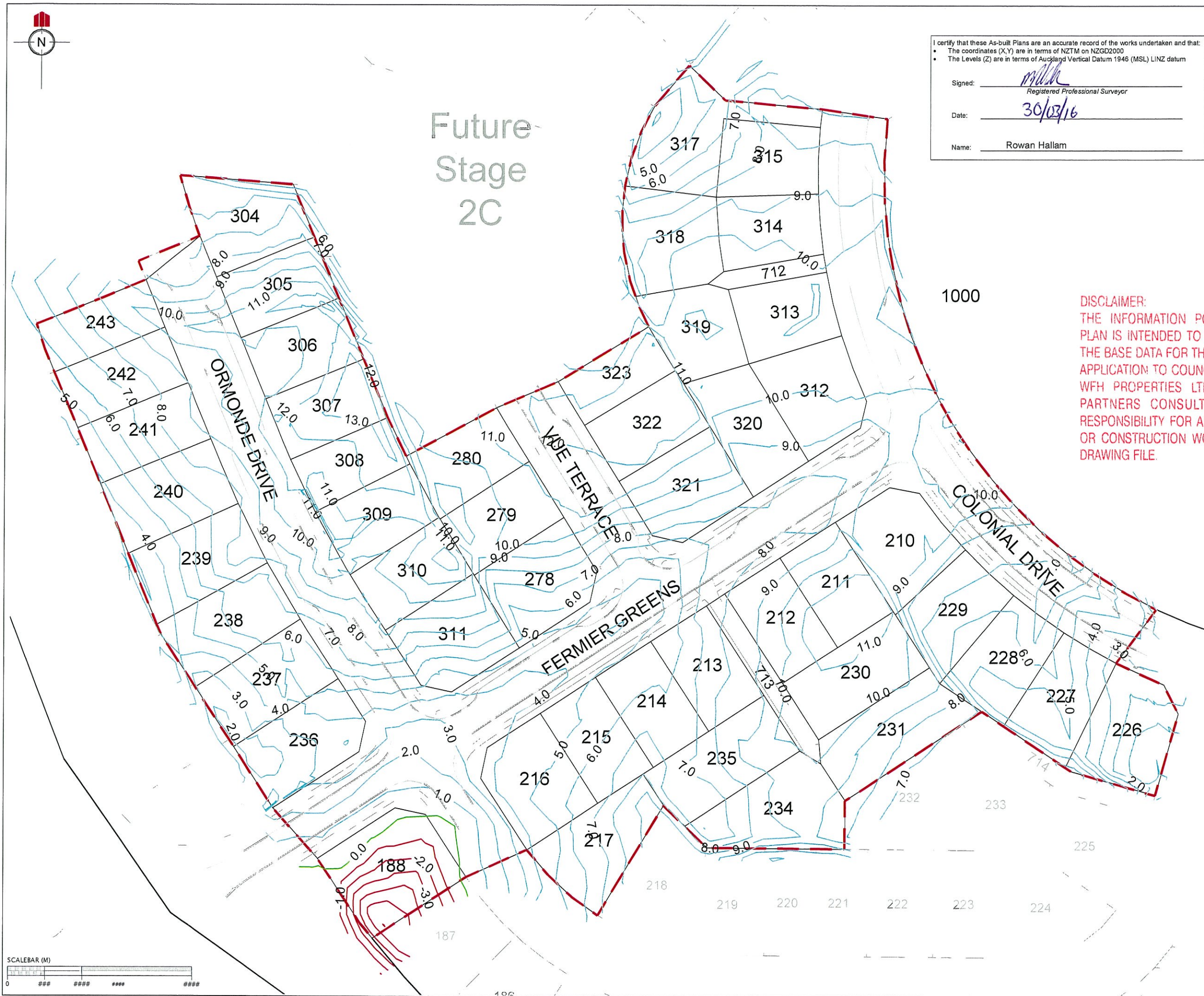


**MILLWATER
PRECINCT 2
STAGE 2B**

**FINAL CONTOUR
AS-BUILT PLAN**

AUCKLAND COUNCIL

DESIGNED: AP	ASBUILT
CHECKED: AP	DRAWN: AAC
APPROVED: MRH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: MARCH 2016	
DWG. NO. 33208-02B-AB-100	REV. 1



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

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

Signed: Rowan Hallam
Registered Professional Surveyor

Date: 30/03/16

Name: Rowan Hallam

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	24/03/16

NOTES

1. CONTOURS ARE AT 1.0 METRE INTERVALS

LEGEND

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

DISCLAIMER:
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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.

CLIENT:

WFH
PROPERTIES

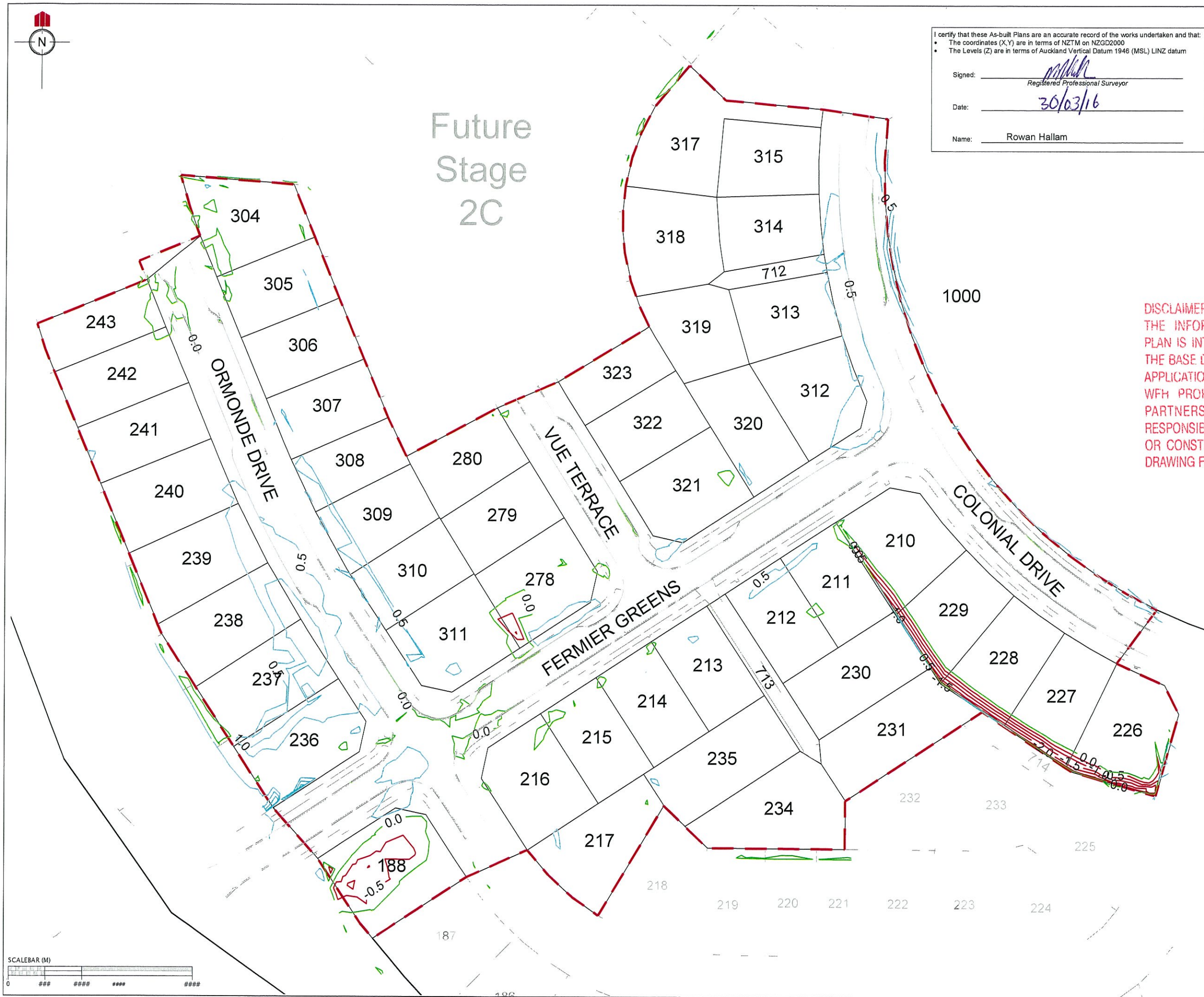
WOODS
Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 2B

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

AUCKLAND COUNCIL

DESIGNED: AP	ASBUILT
CHECKED: <u>MCH</u>	DRAWN: AAC
APPROVED: <u>MCH</u>	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: MARCH 2016	
DWG. NO. 33208-02B-AB-110	REV. 1



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

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

Signed: _____
Registered Professional Surveyor

Date: 30/03/16

Name: Rowan Hallam

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	24/03/16

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

CLIENT:

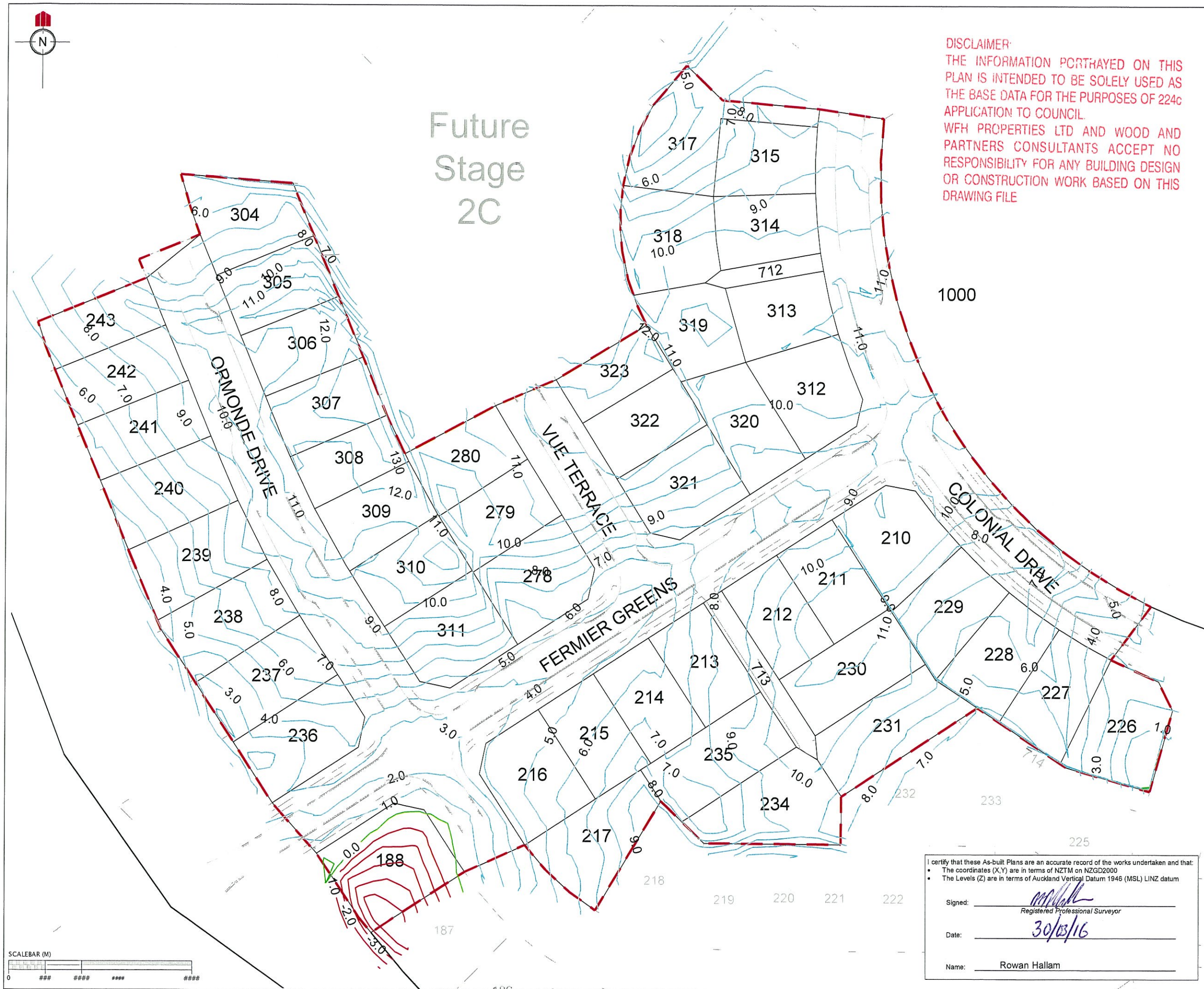


MILLWATER PRECINCT 2 STAGE 2B

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

AUCKLAND COUNCIL

DESIGNED: AP	ASBUILT
CHECKED: AP	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: MARCH 2016	
DWG. NO. 33208-02B-AB-111	REV. 1



REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	24/03/16

NOTES
1. CONTOURS ARE AT 1.0 METRE INTERVALS

LEGEND

ZERO CONTOUR

CUT CONTOUR

FILL CONTOUR

STAGE BOUNDARIES

LOT BOUNDARIES

CLIENT:

WFH
PROPERTIES

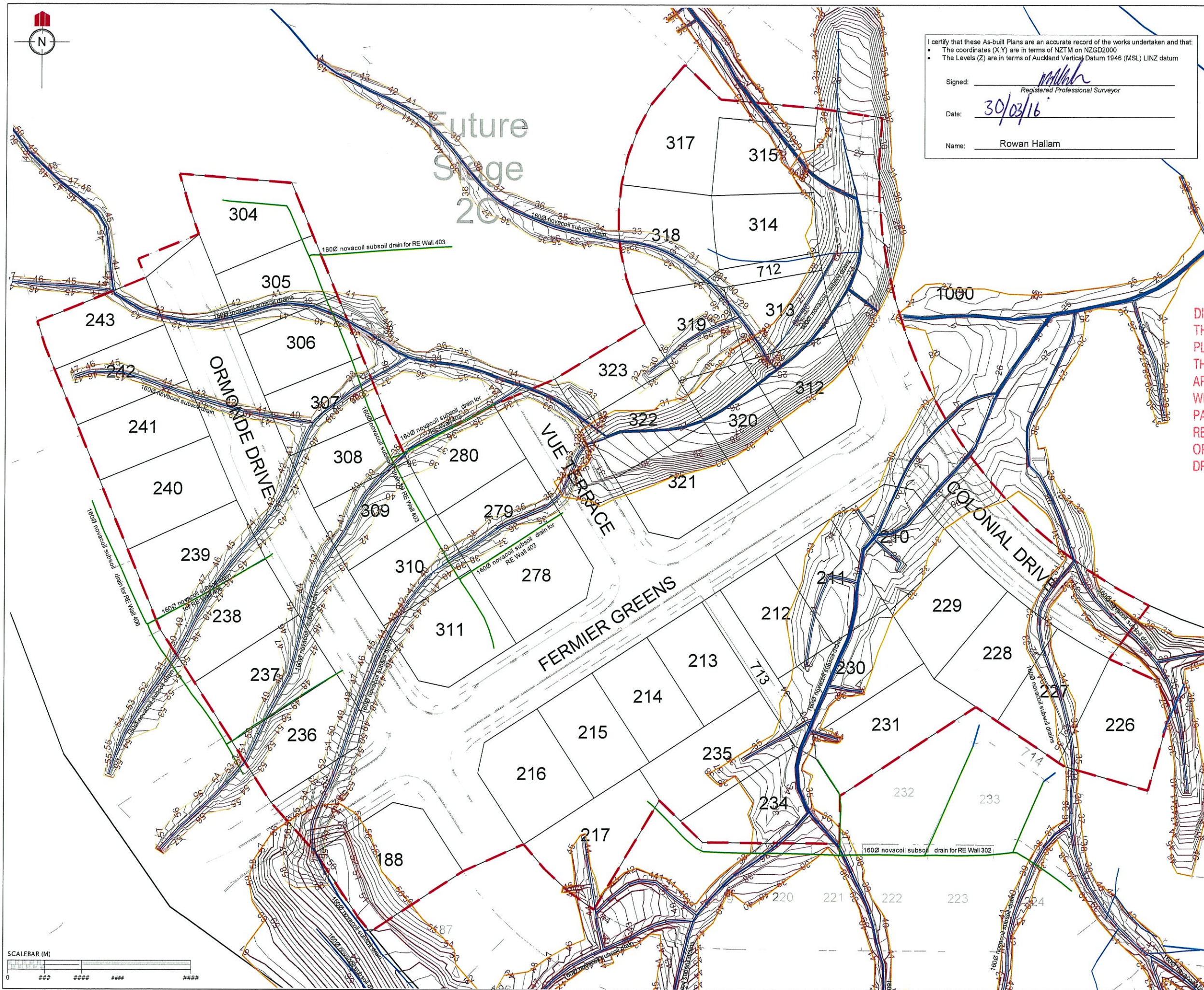
WOODS
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**MILLWATER
PRECINCT 2
STAGE 2B**

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

AUCKLAND COUNCIL

DESIGNED: AP	ASBUILT
CHECKED: AP	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: MARCH 2016	
DWG. NO. 33208-02B-AB-112	REV. 1



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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: Rowan Hallam
Registered Professional Surveyor

Date: 30/03/16

Name: Rowan Hallam

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	26/03/16

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

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

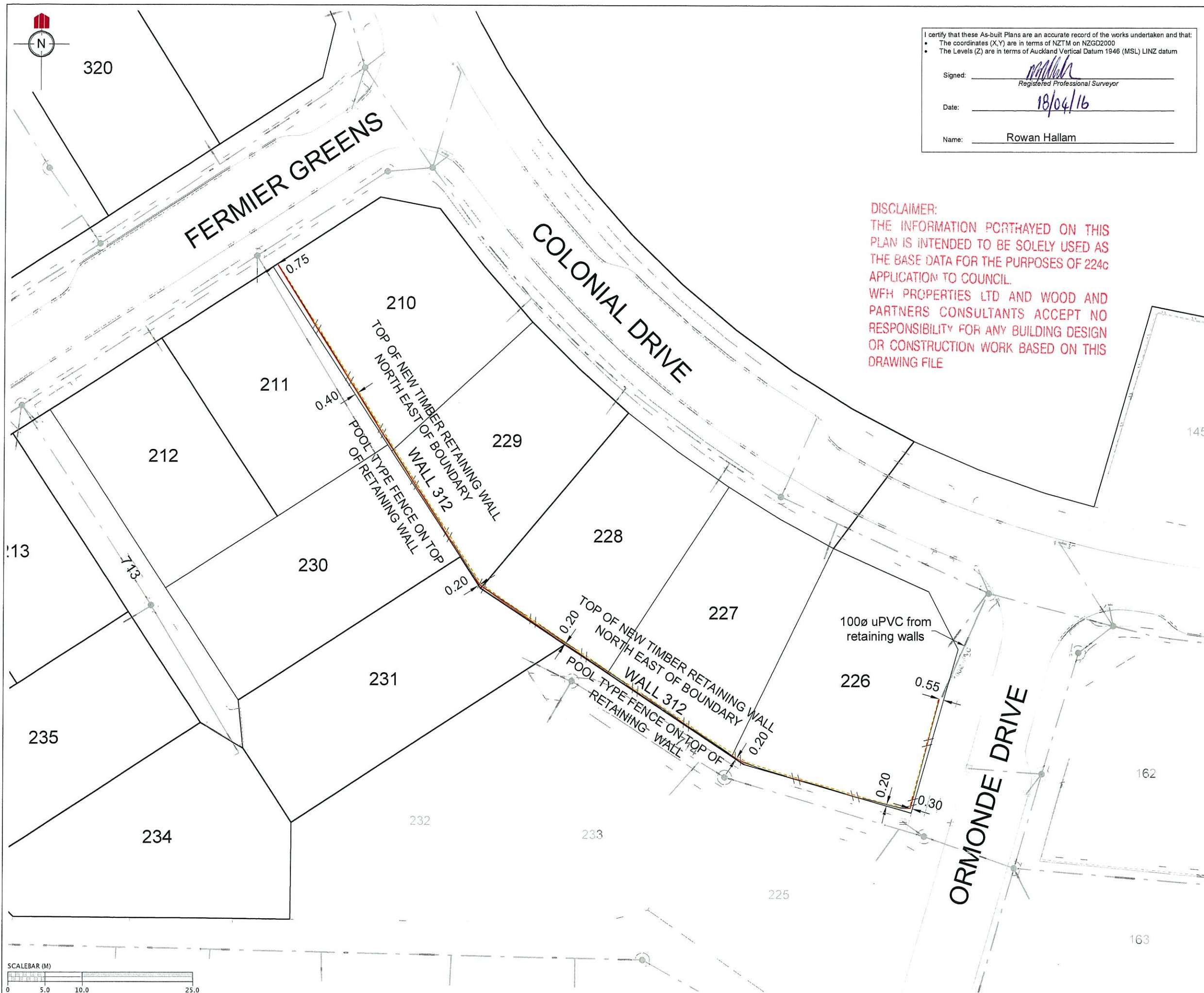


MILLWATER PRECINCT 2 STAGE 2B

SHEAR KEY, UNDERCUTS & SUBSOIL DRAINS AS-BUILT PLAN

AUCKLAND COUNCIL

DESIGNED: AP	ASBUILT
CHECKED: AP	DRAWN: AAC
APPROVED: MHA	SURVEYED: WOODS
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: MARCH 2016	
DWG. NO. 33208-02B-AB-120	REV. 1



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

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

Signed: _____
Registered Professional Surveyor

Date: 18/04/16

Name: Rowan Hallam

DISCLAIMER:
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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

REVISION DETAILS	NAME	DATE
1. Drawing issued	AAC	14/04/16

LEGEND:

- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- - - CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- STORMWATER LINE
- BOUNDARY

CLIENT:

WFH
PROPERTIES

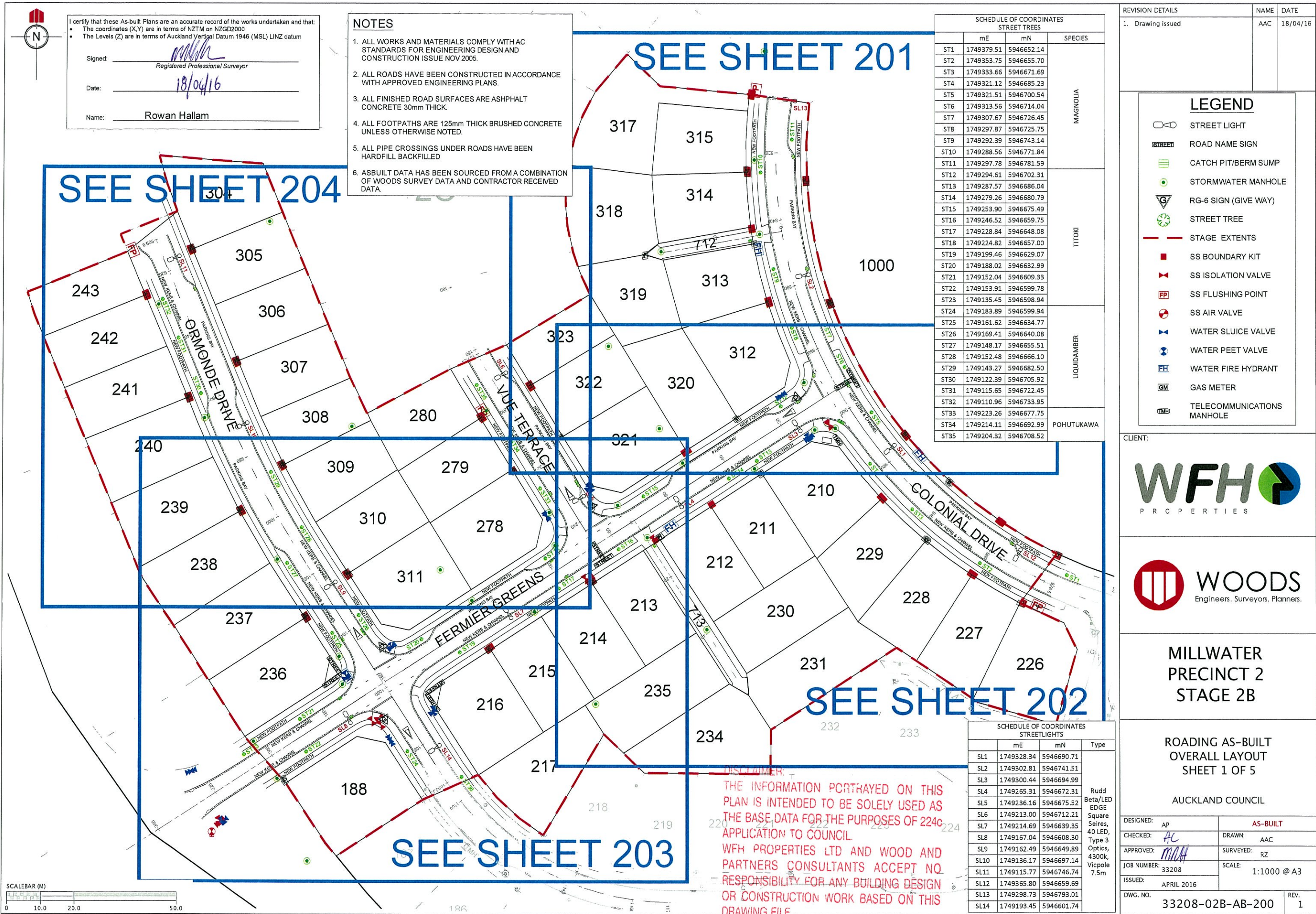
WOODS
Engineers. Surveyors. Planners.

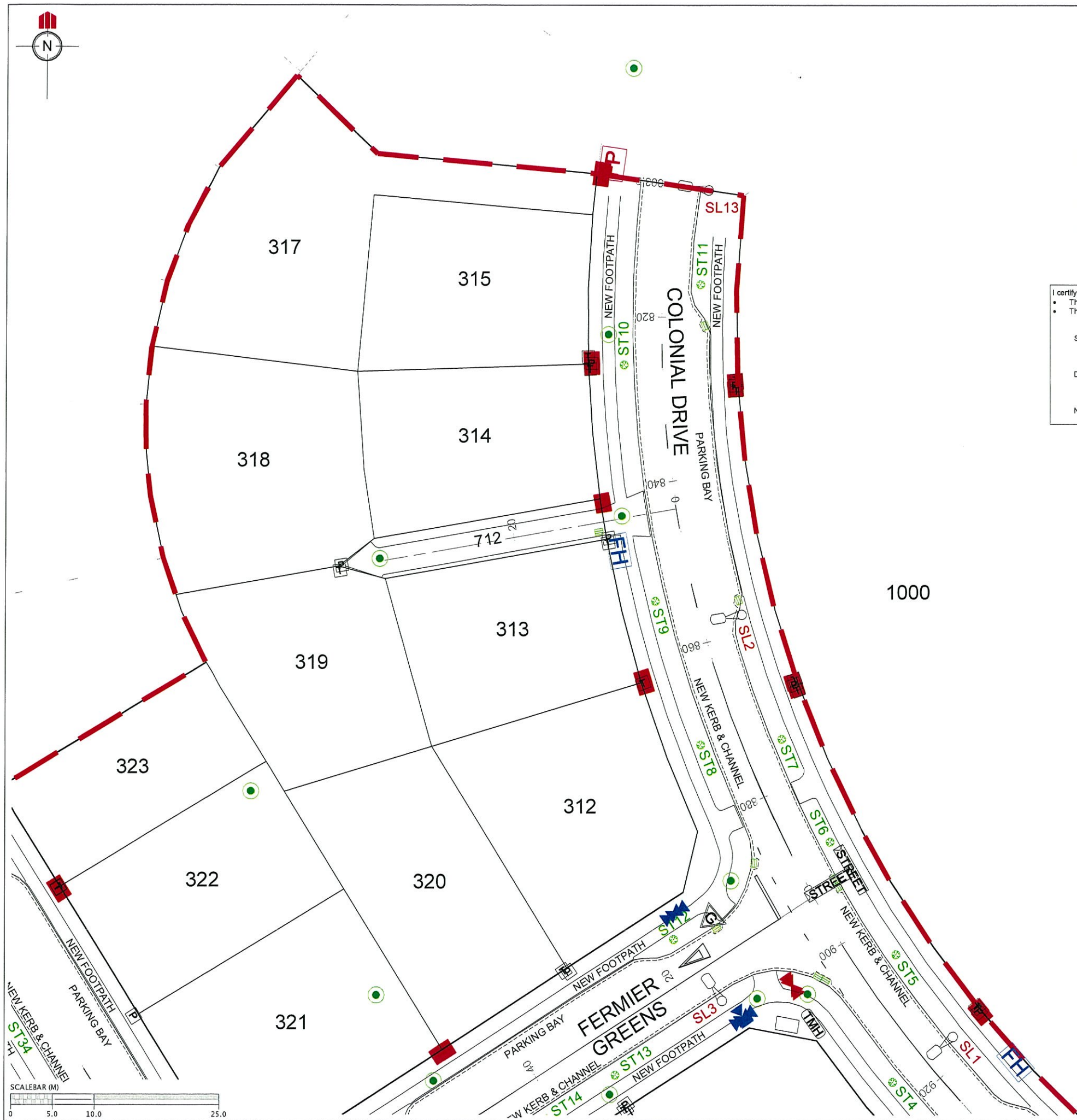
**MILLWATER
PRECINCT 2
STAGE 2B**

**RETAINING WALL
AS-BUILT**

AUCKLAND COUNCIL

DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MTH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: APRIL 2016	
DWG. NO. 33208-02B-AB-130	REV. 1





- 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.

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: 18/04/16

Name: Rowan Hallam

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

REVISION DETAILS		NAME	DATE
1.	Drawing issued	AAC	18/04/16

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
	GAS METER
	TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH
PROPERTIES

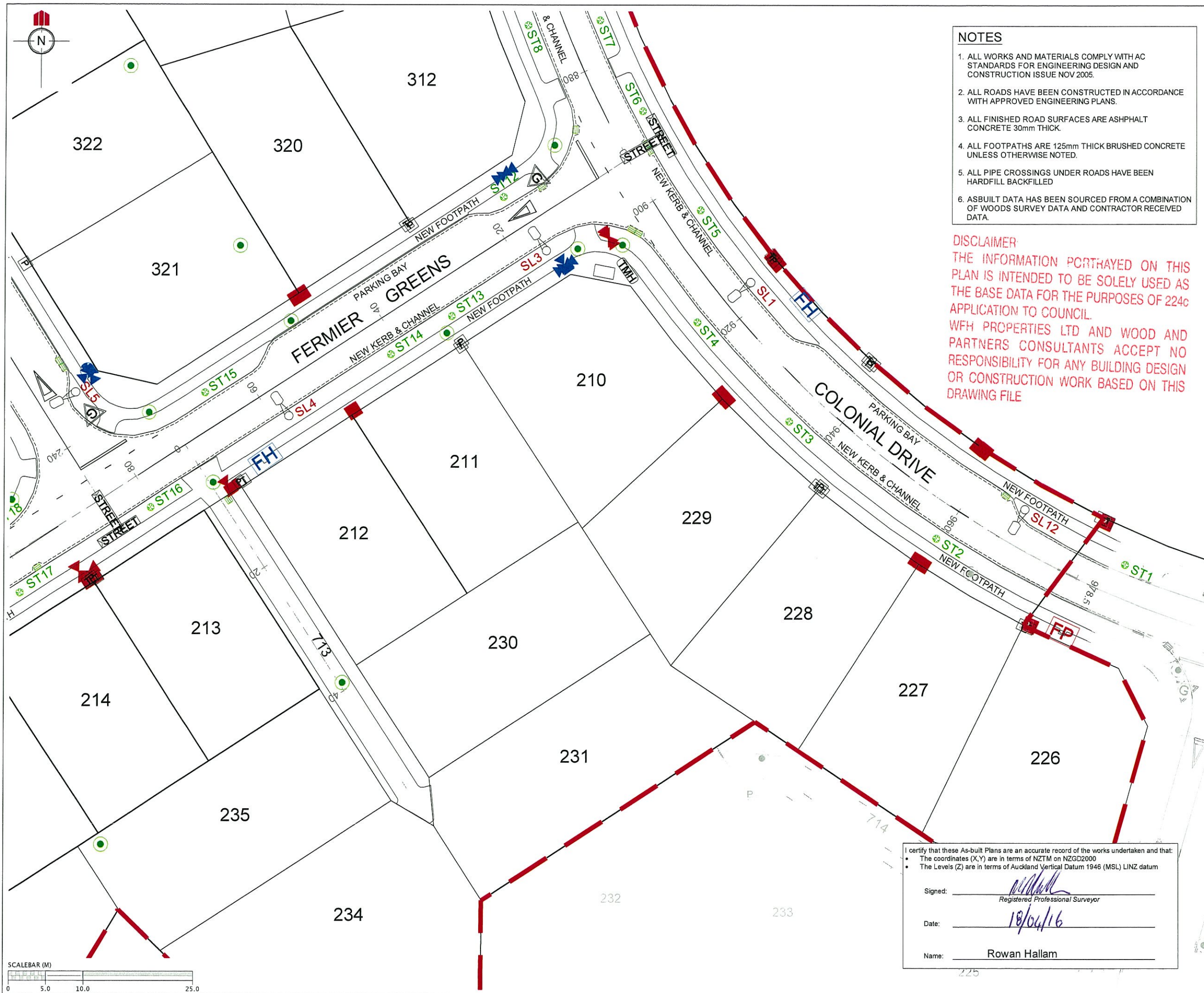
WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 2B**

**ROADING AS-BUILT
SHEET 2 OF 5**

AUCKLAND COUNCIL

DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MNH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: APRIL 2016	
DWG. NO. 33208-02B-AB-201	REV. 1



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.

DISCLAIMER

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REVISION DETAILS		NAME	DATE
1.	Drawing issued	AAC	18/04/16

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
	GAS METER
	TELECOMMUNICATIONS MANHOLE

CLIENT:



MILLWATER PRECINCT 2 STAGE 2B

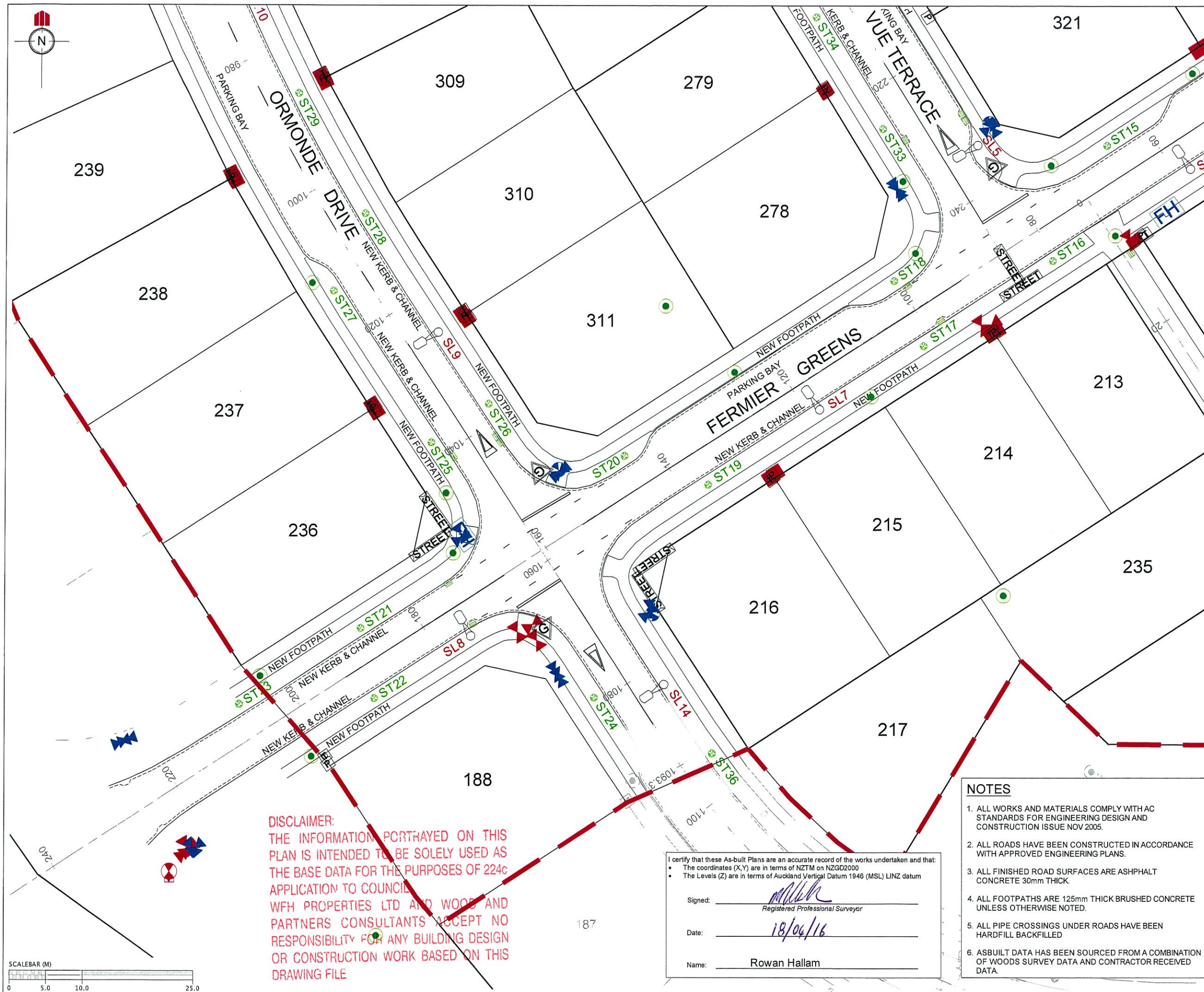
ROADING AS-BUILT
SHEET 3 OF 5

AUCKLAND COUNCIL

DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCA	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: APRIL 2016	
DWG. NO. 33208-02B-AB-202	REV. 1

I certify that these As-built Plans are an accurate record of the works undertaken and that:
• The coordinates (X,Y) are in terms of NZTM on NZGD2000
• The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor
Date: 18/04/16
Name: Rowan Hallam



REVISION DETAILS		NAME	DATE
1.	Drawing issued	AAC	18/04/16

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
- GAS METER
- TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH PROPERTIES

WOODS Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 2B

ROADING AS-BUILT SHEET 4 OF 5

AUCKLAND COUNCIL

DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MWM	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: APRIL 2016	
DWG. NO. 33208-02B-AB-203	REV. 1

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

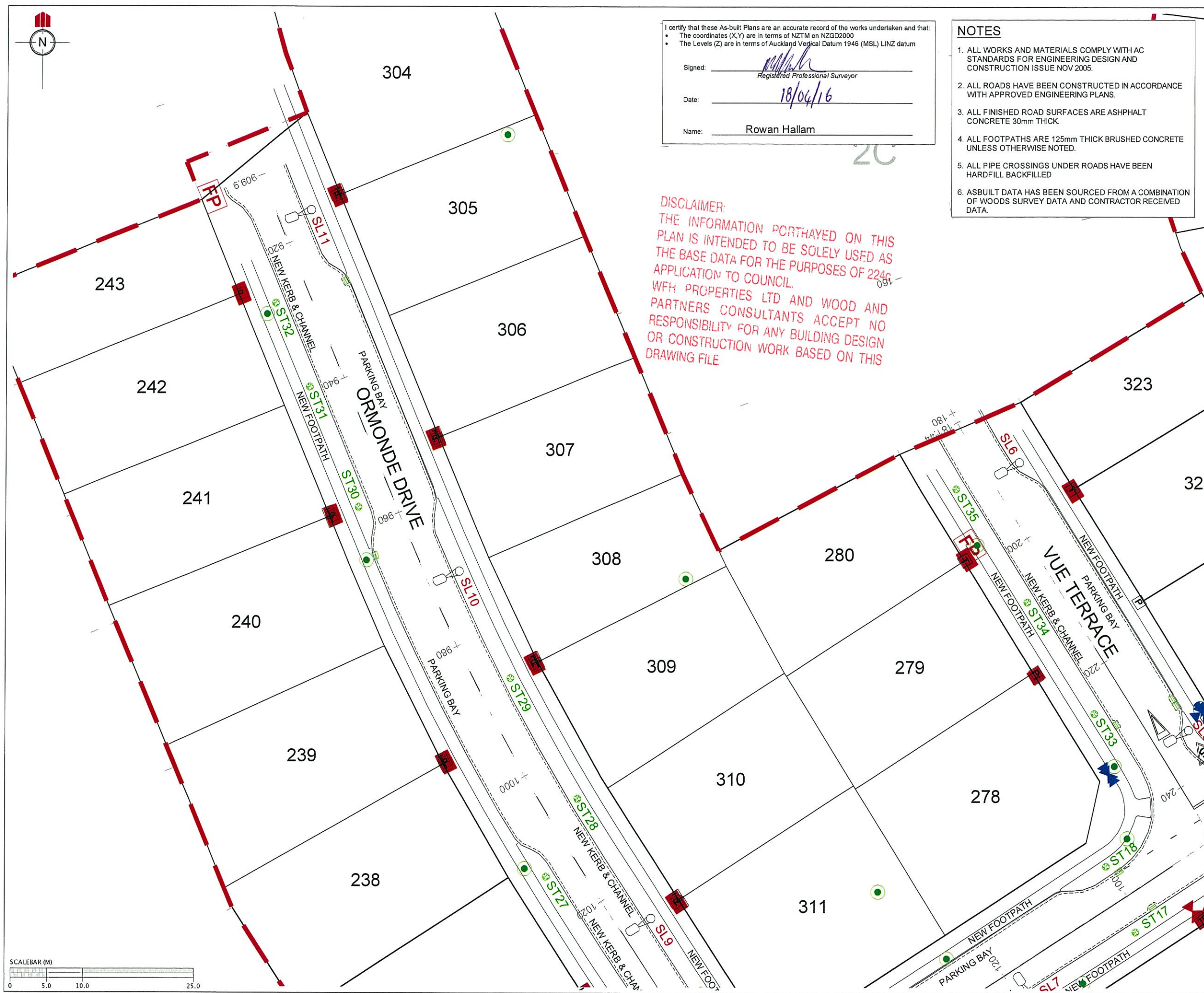
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: *Rowan Hallam*
Registered Professional Surveyor

Date: *18/04/16*

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 30mm THICK.
 - ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS HAVE BEEN HARDFILL BACKFILLED
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.



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: 18/04/16

Name: Rowan Hallam

- 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.

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2246 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

REVISION DETAILS		NAME	DATE
1.	Drawing issued	AAC	18/04/16

- 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
 - GAS METER
 - TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 2B

ROADING AS-BUILT SHEET 5 OF 5

AUCKLAND COUNCIL

DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: APRIL 2016	
DWG. NO. 33208-02B-AB-204	REV. 1



DISCLAIMER
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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.

SEE SHEET 302

Future
Stage
2C

SEE SHEET 304

SEE SHEET 303

SEE SHEET 301

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
3. ALL CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
6. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
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.

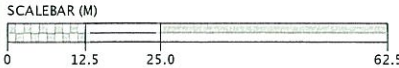
SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot #	mE	mN	Length
Lot 188	1749185.80	5946586.17	4.2
Lot 189	1749145.83	5946586.58	5.1
Lot 210	1749320.94	5946674.72	4.7
Lot 211	1749286.90	5946680.08	3.6
Lot 212	1749274.04	5946670.59	4.1
Lot 213	1749254.20	5946657.07	6.1
Lot 214	1749238.62	5946647.38	4.2
Lot 215	1749221.01	5946636.81	4.4
Lot 216	1749209.09	5946626.42	24.3
Lot 217	1749236.45	5946612.19	3.7
Lot 226	1749381.28	5946630.53	8.7
Lot 227	1749364.34	5946642.53	5.1
Lot 228	1749348.82	5946651.51	4.8
Lot 229	1749334.61	5946662.19	4.5
Lot 230	1749302.65	5946655.78	32.6
Lot 231	1749323.22	5946628.90	7.4
Lot 234	1749284.15	5946615.54	23.8
Lot 235	1749269.01	5946633.57	4.4
Lot 236	1749154.22	5946636.71	3.1
Lot 237	1749143.18	5946652.94	4.2
Lot 238	1749141.47	5946657.04	3.7
Lot 239	1749132.80	5946672.04	2.7
Lot 240	1749123.71	5946690.82	2.9
Lot 241	1749117.01	5946706.93	2.9
Lot 242	1749109.19	5946723.50	3.9
Lot 243	1749105.06	5946735.76	5.9
Lot 278	1749221.92	5946668.39	4.4
Lot 279	1749211.11	5946683.78	5.7
Lot 280	1749202.03	5946699.35	5.3
Lot 304	1749141.22	5946759.98	3.2
Lot 305	1749146.09	5946742.39	2.3
Lot 306	1749153.09	5946725.04	2.3
Lot 307	1749159.80	5946708.76	2.2
Lot 308	1749164.95	5946695.44	2.4
Lot 309	1749174.53	5946680.33	2.1
Lot 310	1749184.16	5946665.01	2.0
Lot 311	1749197.93	5946645.47	5.1
Lot 312	1749295.97	5946716.39	3.3
Lot 313	1749289.31	5946734.91	4.4
Lot 314	1749283.49	5946756.91	4.6
Lot 315	1749283.68	5946789.08	4.2
Lot 316	1749284.37	5946796.81	4.2
Lot 317	1749284.21	5946793.95	4.1
Lot 318	1749256.98	5946750.96	3.4
Lot 319	1749258.38	5946745.61	2.8
Lot 320	1749279.69	5946699.34	3.8
Lot 321	1749260.31	5946687.30	3.2
Lot 322	1749248.76	5946705.92	2.9
Lot 323	1749241.09	5946724.20	4.6

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: [Signature]
Registered Professional Surveyor
Date: 18/04/16
Name: Rowan Hallam

LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- RETAINING WALL DRAINAGE
- STAGE BOUNDARY



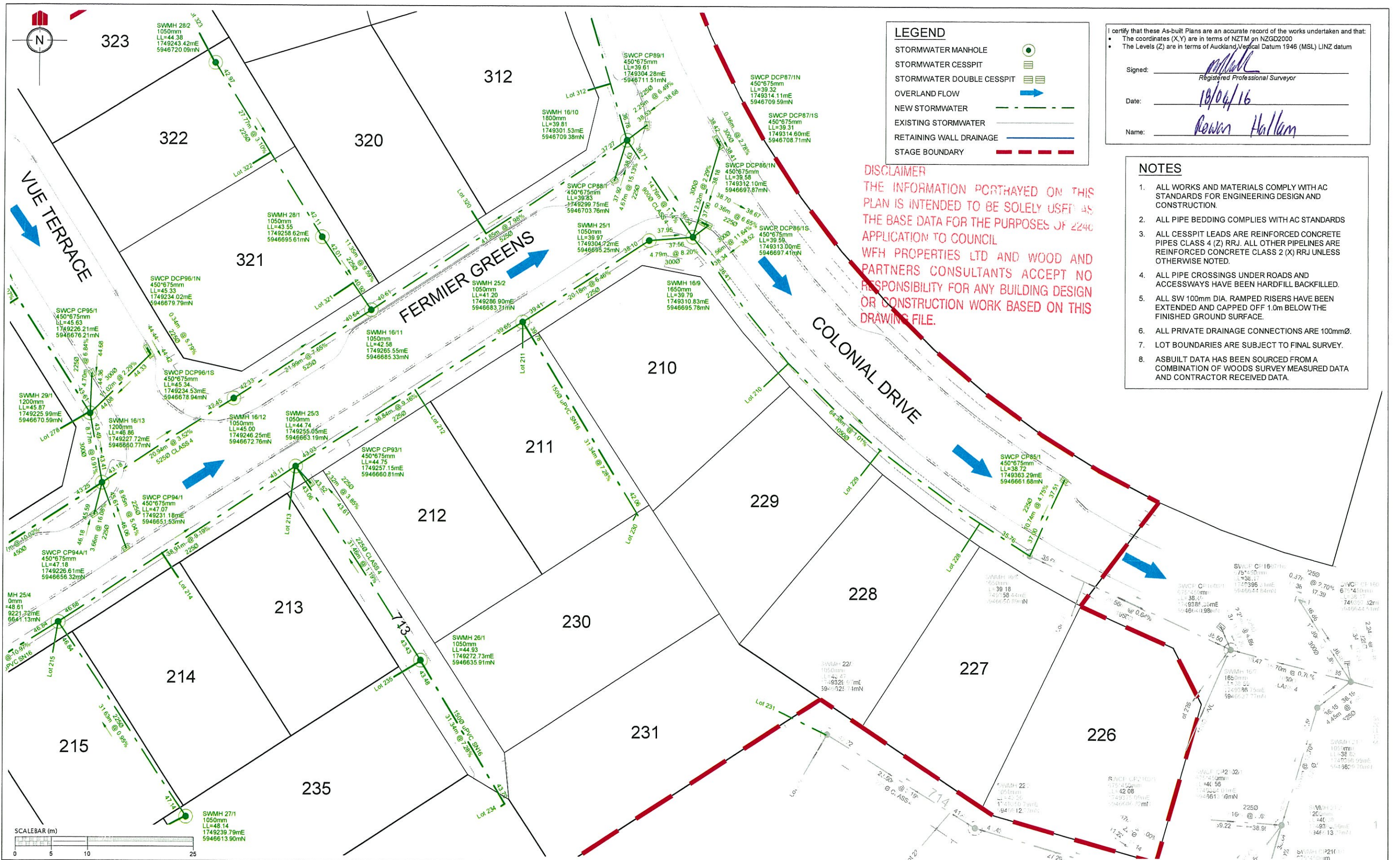
REVISION DETAILS	NAME	DATE	CLIENT:
1 DRAWING ISSUED	AAC	14/04/2016	



MILLWATER – PRECINCT 2 – STAGE 2B
STORMWATER AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 5
AUCKLAND COUNCIL



DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: RJM
APPROVED: MW	SURVEYED: WOODS
JOB NUMBER: 33208	SCALE: 1:1250 @ A3
ISSUED: April 2016	
DWG. NO. 33208-02B-AB-300	REV. 1





NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
3. ALL CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL SW 100mm DIA. RAMPED RISERS HAVE BEEN EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
6. ALL PRIVATE DRAINAGE CONNECTIONS ARE 100mmØ.
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.

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:

18/04/16

Name:

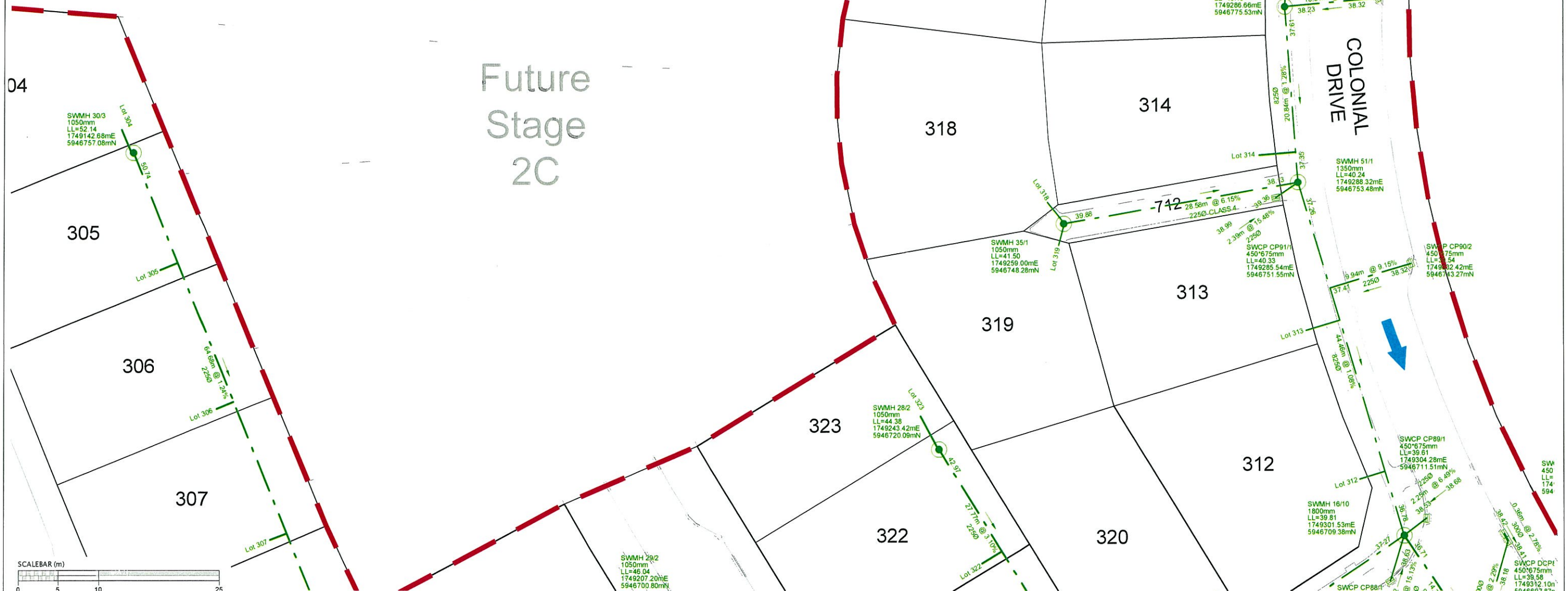
Rowan Hallam

LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- RETAINING WALL DRAINAGE
- STAGE BOUNDARY

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

Future
Stage
2C



REVISION DETAILS	NAME	DATE	CLIENT:
1 DRAWING ISSUED	AAC	14/04/2016	



MILLWATER – PRECINCT 2 – STAGE 2B

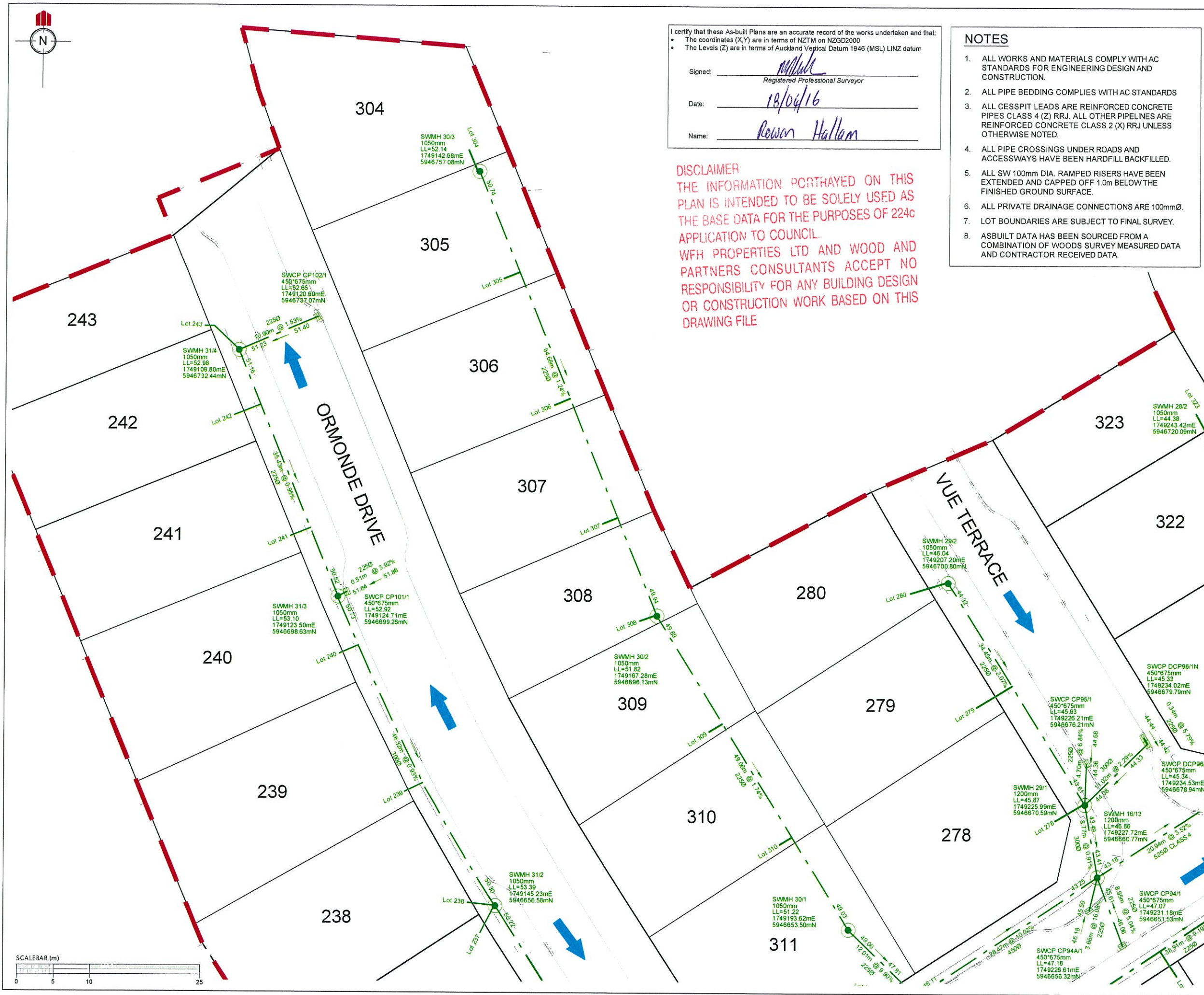
STORMWATER AS-BUILT
SHEET 3 OF 5

AUCKLAND COUNCIL



WOODS
Engineers. Surveyors. Planners.

DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: RJM
APPROVED: MCA	SURVEYED: WOODS
JOB NUMBER: 33208	SCALE: 1:500 @ A3
ISSUED: April 2016	
DWG. NO. 33208-02B-AB-302	REV. 1



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

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

Signed: [Signature]
Registered Professional Surveyor

Date: 18/04/16

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**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 - ALL CESSPIT LEADS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL 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.

REVISION DETAILS		NAME	DATE
1	DRAWING ISSUED	AAC	14/04/2016

LEGEND

- STORMWATER MANHOLE
- STORMWATER CESSPIT
- STORMWATER DOUBLE CESSPIT
- OVERLAND FLOW
- NEW STORMWATER
- EXISTING STORMWATER
- RETAINING WALL DRAINAGE
- STAGE BOUNDARY

CLIENT:

WFH
PROPERTIES

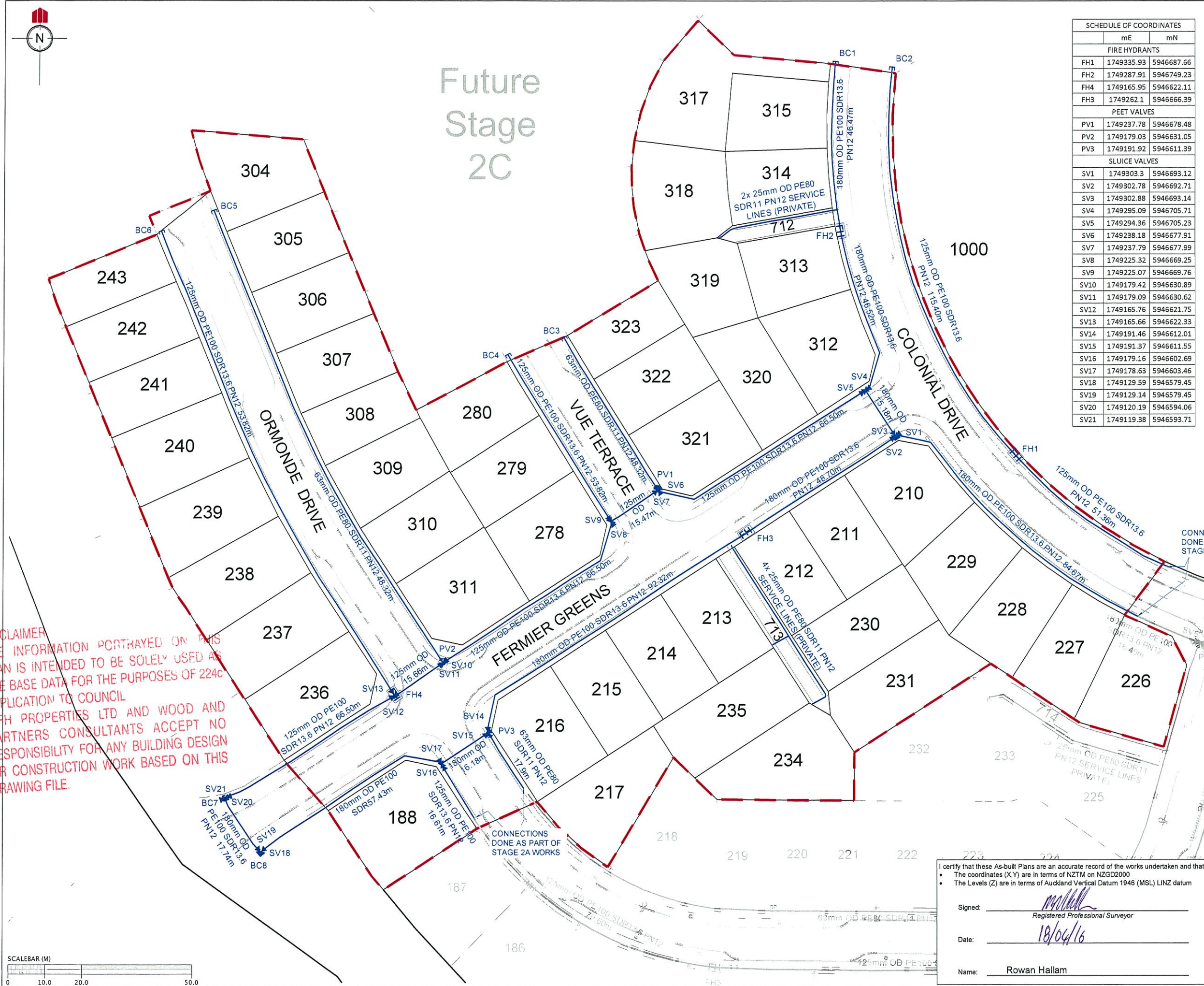
WOODS
Engineers, Surveyors, Planners.

**MILLWATER
PRECINCT 2
STAGE 2B**

**STORMWATER AS-BUILT
SHEET 5 of 5**

AUCKLAND COUNCIL

DESIGNED: AP	AS-BUILT
CHECKED: <u>[Signature]</u>	DRAWN: RJM
APPROVED: <u>[Signature]</u>	SURVEYED: WOODS
JOB NUMBER: 33208	SCALE: 1:500 @ A3
ISSUED: April 2016	
DWG. NO. 33208-S2B-AB-304	REV. 1



SCHEDULE OF COORDINATES		
	mE	mN
FIRE HYDRANTS		
FH1	1749335.93	5946687.66
FH2	1749287.91	5946749.23
FH4	1749165.95	5946622.11
FH3	1749262.1	5946666.39
PEET VALVES		
PV1	1749237.78	5946678.48
PV2	1749179.03	5946631.05
PV3	1749191.92	5946611.39
SLUICE VALVES		
SV1	1749303.3	5946693.12
SV2	1749302.78	5946692.71
SV3	1749302.88	5946693.14
SV4	1749295.09	5946705.71
SV5	1749294.36	5946705.23
SV6	1749238.18	5946677.91
SV7	1749237.79	5946677.99
SV8	1749225.32	5946669.25
SV9	1749225.07	5946669.76
SV10	1749179.42	5946630.89
SV11	1749179.09	5946630.62
SV12	1749165.76	5946621.75
SV13	1749165.66	5946622.33
SV14	1749191.46	5946612.01
SV15	1749191.37	5946611.55
SV16	1749179.16	5946602.69
SV17	1749178.63	5946603.46
SV18	1749129.59	5946579.45
SV19	1749129.14	5946579.45
SV20	1749120.19	5946594.06
SV21	1749119.38	5946593.71

REVISION DETAILS		NAME	DATE
1.	Drawing issued	AAC	18/04/16

- 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.

LEGEND	
EXISTING WATERMAIN	—
HIGH PESSURE WATERMAIN	—
SLUICE VALVE	SV1
PEET VALVE	PV
FIRE HYDRANT	FH
BLANK CAP	BC1
STAGE BOUNDARY	---



MILLWATER PRECINCT 2 STAGE 2B

WASTEWATER AS-BUILT

AUCKLAND COUNCIL

DESIGNED: AP	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: APRIL 2016	
DWG. NO. 33208-02B-AB-600	REV. 1

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

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

Signed: *Rowan Hallam*
Registered Professional Surveyor

Date: 18/04/16

Name: Rowan Hallam

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