

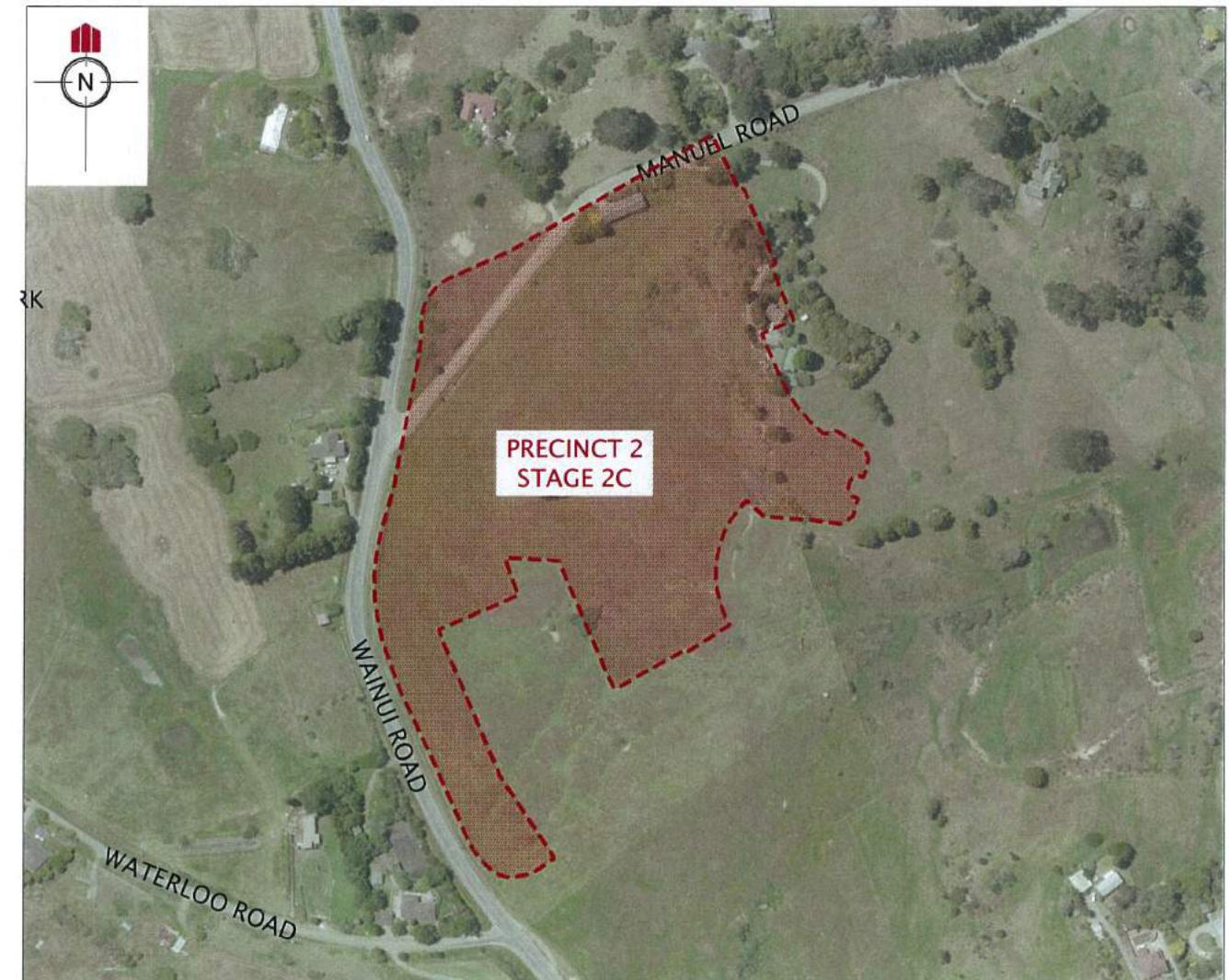
MILLWATER - PRECINCT 2 STAGE 2C

AS-BUILT DRAWINGS

CONTENT INDEX AND LOCALITY PLAN

COVER PAGE	
000	Plans Index and Location Plan
MILLWATER - PRECINCT 2 STAGE 02C AS-BUILT DRAWINGS	
DWG NO	DESCRIPTION
100-101	Final Contour As-Built Plans
110-111	Cut/Fill Original Surface - Earthwork Surface As-Built Plans
112-113	Cut/Fill Earthworks Surface - Final Surface As-Built Plans
114-115	Cut/Fill Original Surface - Final Surface As-Built Plans
120-121	Cut/Fill - Shear Key, Undercut & Subsoil Drains As-Built
150-151	Retaining Walls As-Built Plans
200-202	Roading As-Built Plans
250-251	Reserve As-Built Plans
300-306	Stormwater As-Built Plans
400-403	Low Pressure Sewer As-Built Plan
500-503	Water Reticulation As-Built Plan

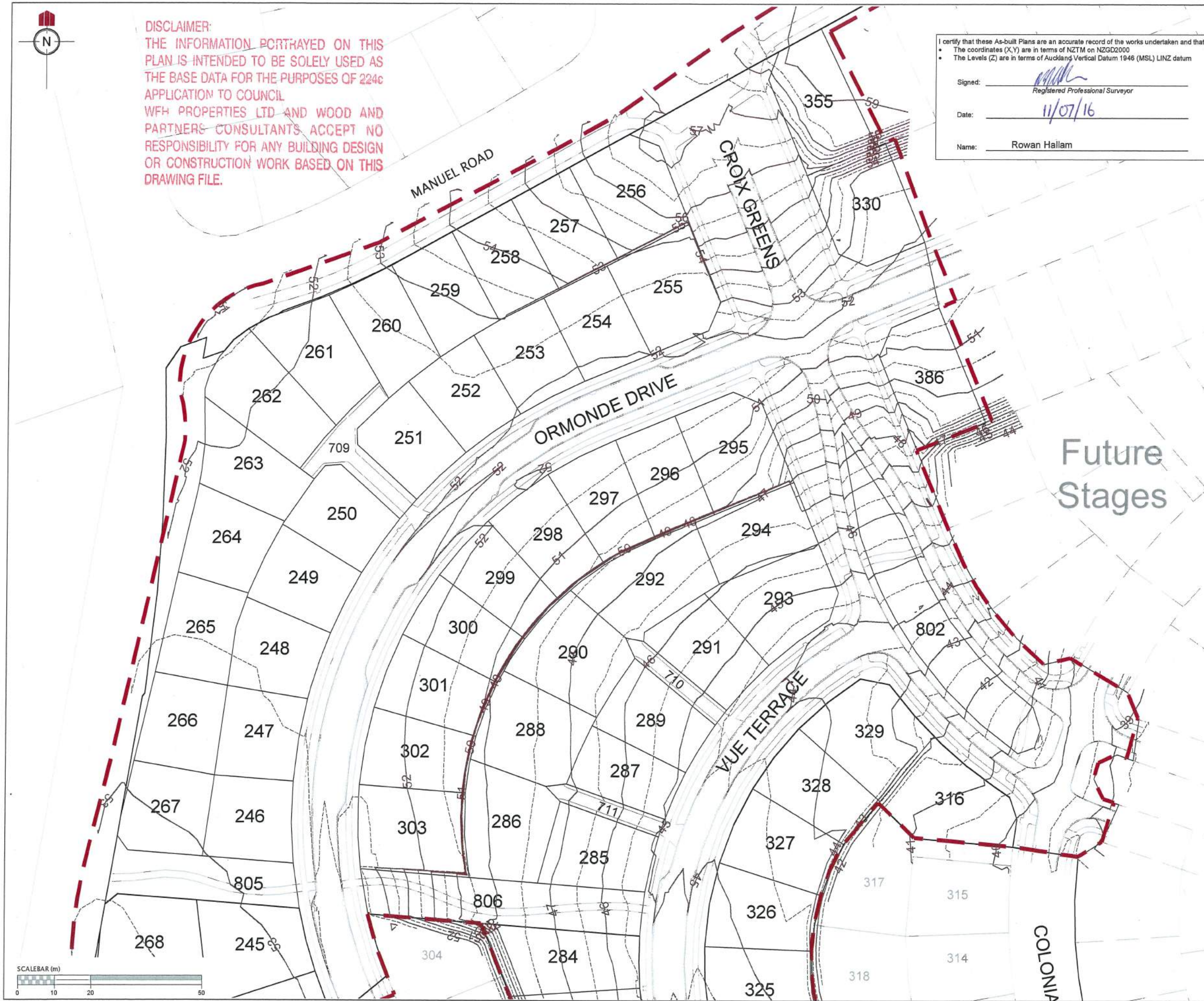
DISCLAIMER:
 THE INFORMATION PORTRAYED ON THIS
 PLAN IS INTENDED TO BE SOLELY USED AS
 THE BASE DATA FOR THE PURPOSES OF 2240
 APPLICATION TO COUNCIL.
 WOODS PROPERTIES LTD AND WOOD AND
 PARTNERS CONSULTANTS ACCEPT NO
 RESPONSIBILITY FOR ANY BUILDING DESIGN
 OR CONSTRUCTION WORK BASED ON THIS
 PRELIMINARY FILE



LOCATION PLAN


NOT TO SCALE





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.

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: 11/07/16

Name: Rowan Hallam

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	6/07/2016

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND	
	CONTOURS MAJOR
	CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

Future
Stages

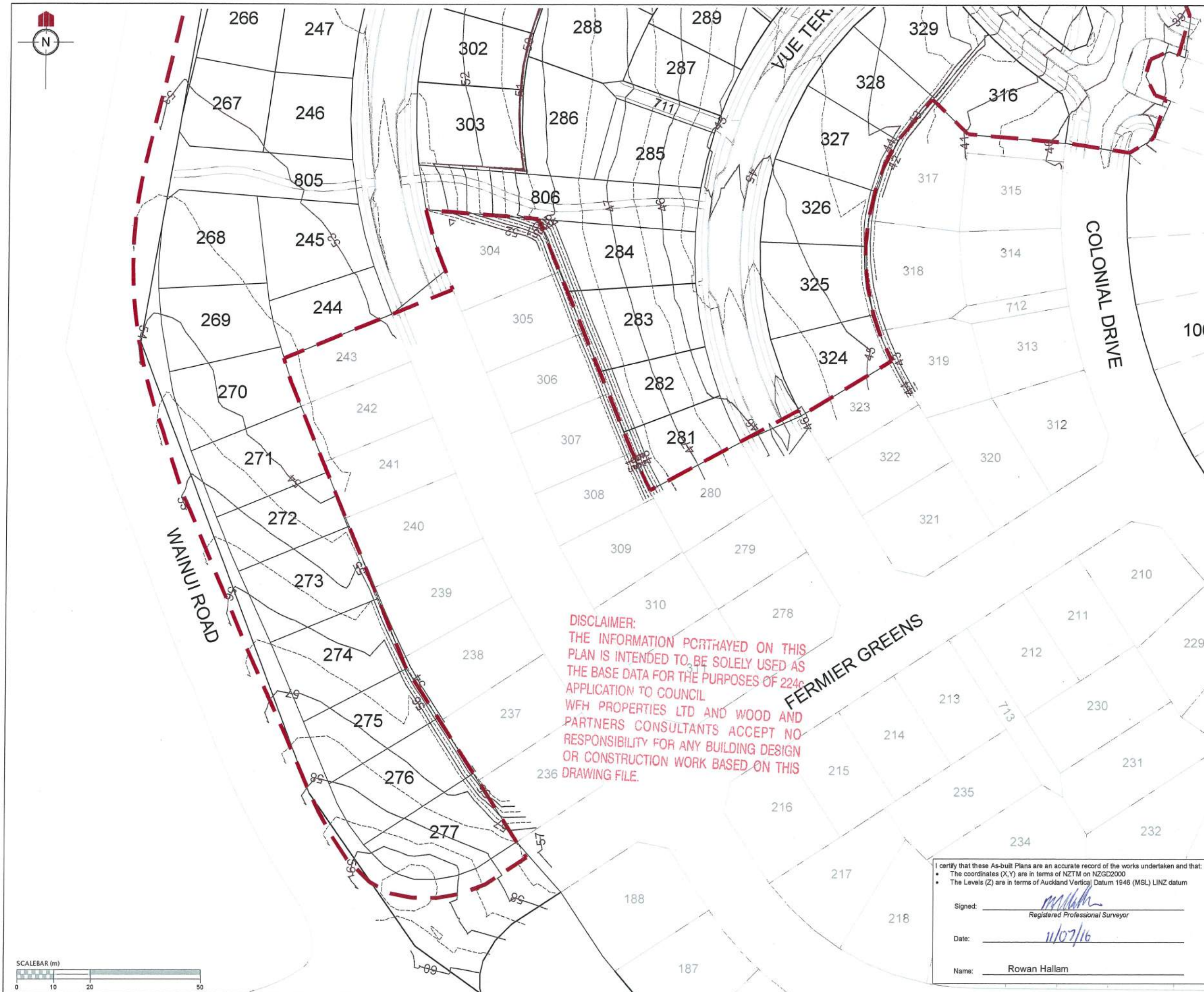


MILLWATER
PRECINCT 2
STAGE 2C

FINAL CONTOUR
AS-BUILT PLAN
Sheet 1 of 2

AUCKLAND COUNCIL

DESIGNED: TX	DRAFT ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MHA	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-100	REV. 1



REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	06/07/16

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

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

CLIENT:

WFH
PROPERTIES

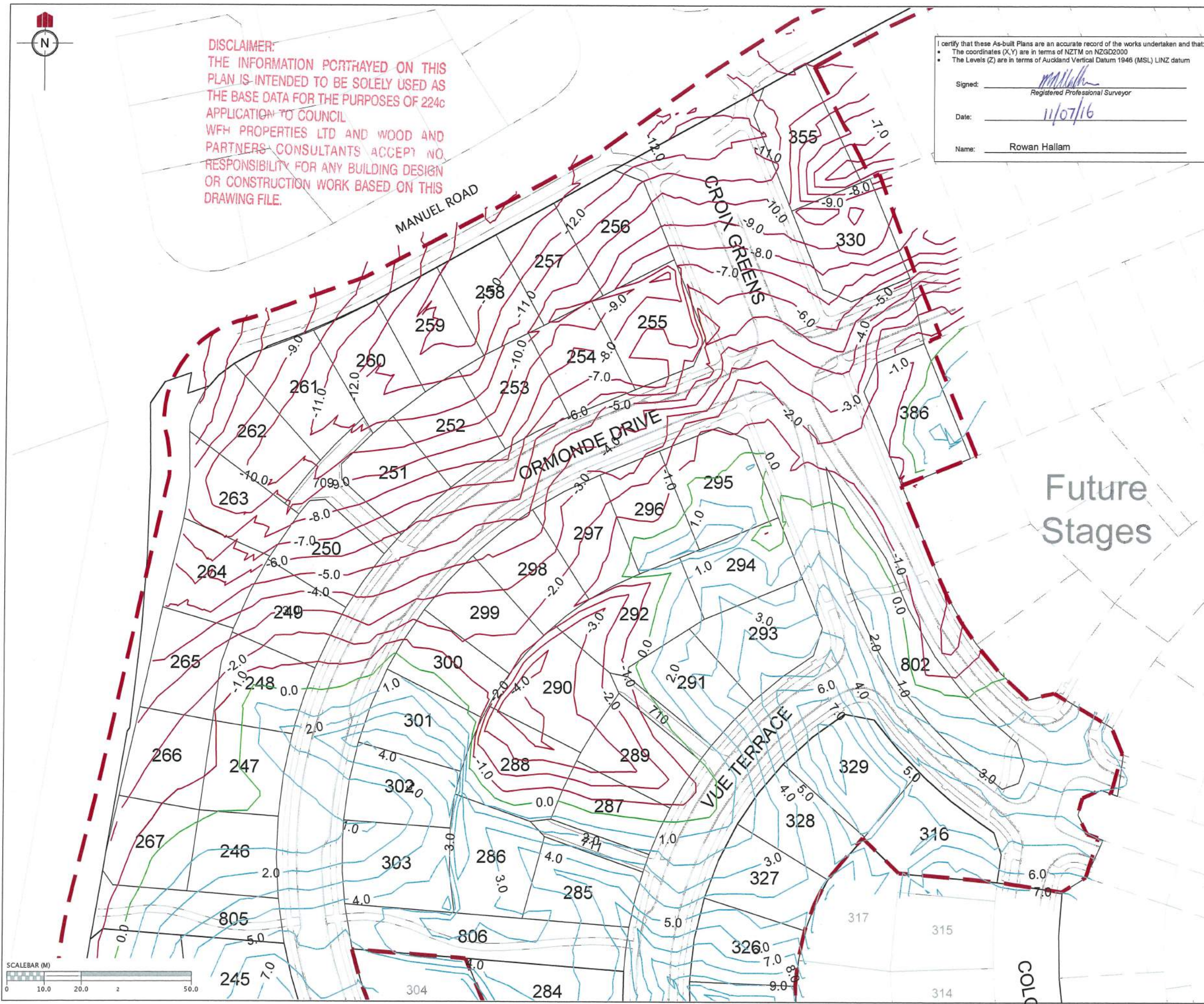
WOODS
Engineers, Surveyors, Planners.

**MILLWATER
PRECINCT 2
STAGE 2C**

**FINAL CONTOUR
AS-BUILT PLAN
Sheet 2 of 2**

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33208	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-101	REV. 1



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.

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: 11/07/16

Name: Rowan Hallam

REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AAC	06/07/16

NOTES
1. CONTOURS ARE AT 1.0 METRE INTERVALS

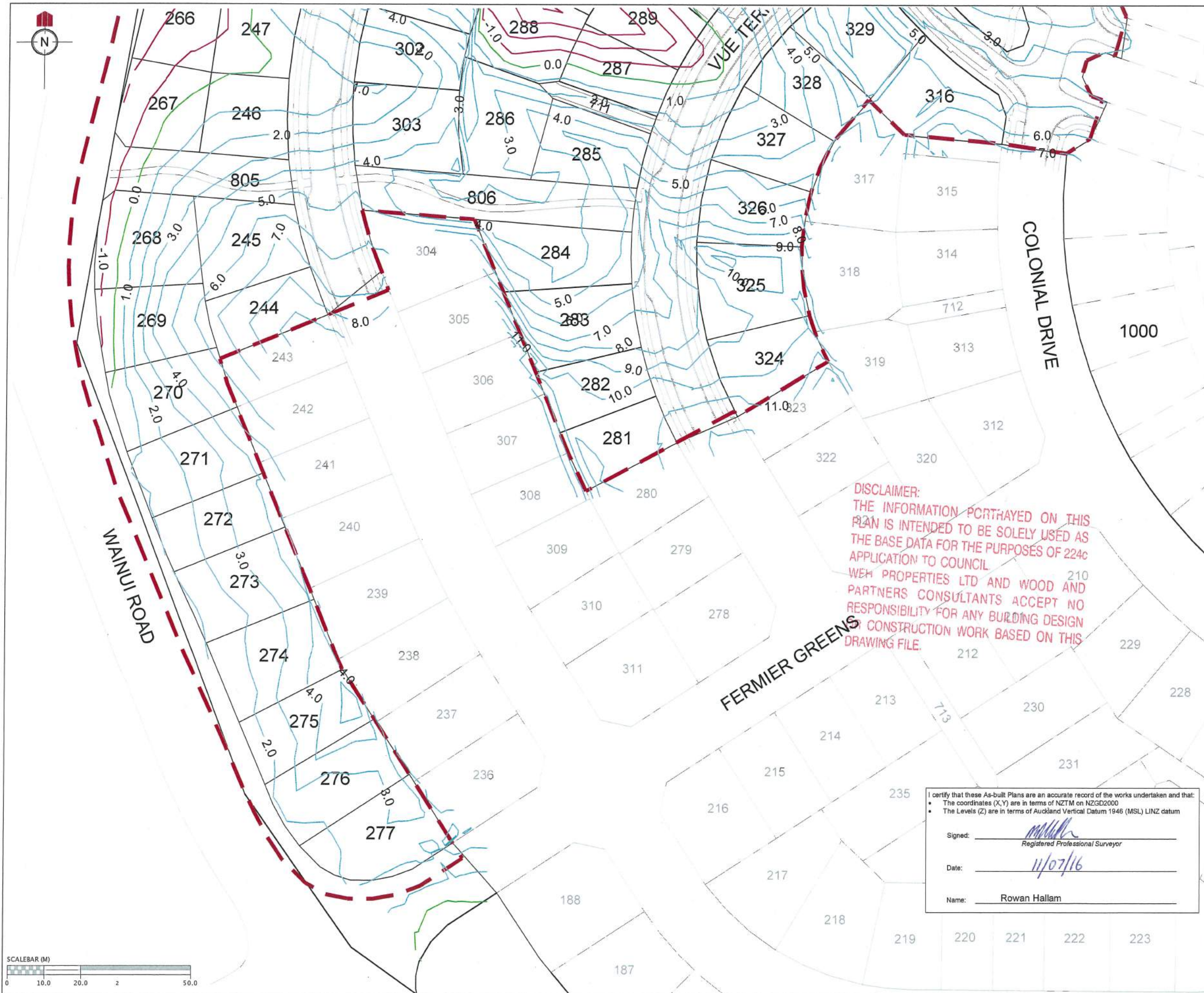
LEGEND	
	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES



**MILLWATER
PRECINCT 2
STAGE 2C**

CUT/FILL CONTOUR AS-BUILT
ORIGINAL SURFACE -
EARTHWORKS SURFACE
Sheet 1 of 2
AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-110	REV. 1



REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	06/07/16

NOTES	
1. CONTOURS ARE AT 1.0 METRE INTERVALS	

LEGEND	
	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

CLIENT:

WFH PROPERTIES

WOODS Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 2C

CUT/FILL CONTOUR AS-BUILT ORIGINAL SURFACE - EARTHWORKS SURFACE
Sheet 2 of 2
AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-111	REV. 1

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

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

- 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: 11/07/16

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.

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: 11/07/16

Name: Rowan Hallam

REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AAC	06/07/16

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

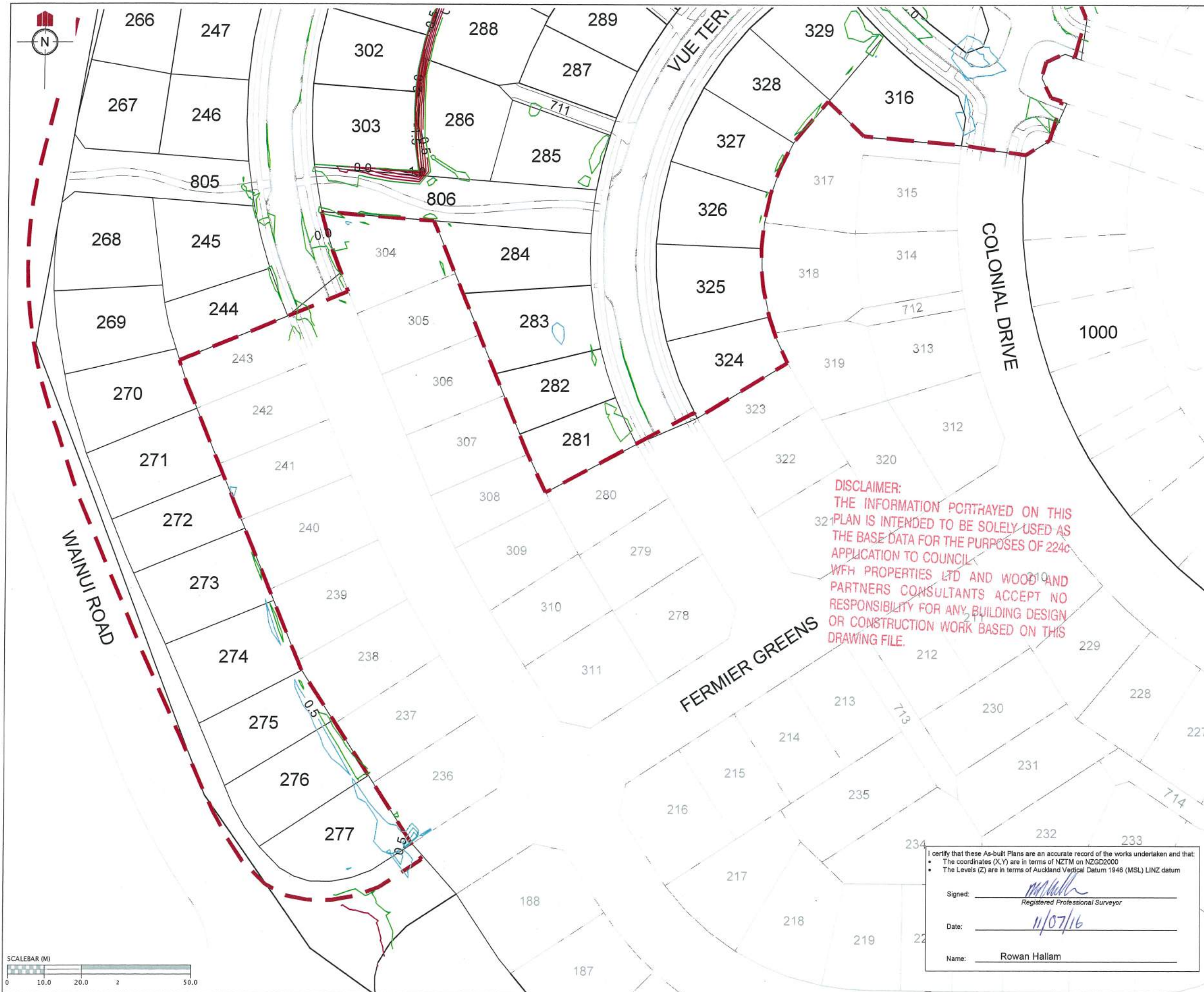
LEGEND	
	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES



MILLWATER
PRECINCT 2
STAGE 2C

CUT/FILL CONTOUR AS-BUILT
EARTHWORKS SURFACE - FINAL
SURFACE
Sheet 1 of 2
AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: <i>Rowan Hallam</i>	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-112	REV. 1



REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	06/07/16

NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS

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

CLIENT:

**MILLWATER
PRECINCT 2
STAGE 2C**

**CUT/FILL CONTOUR AS-BUILT
EARTHWORKS SURFACE - FINAL
SURFACE
Sheet 2 of 2**
AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-113	REV. 1

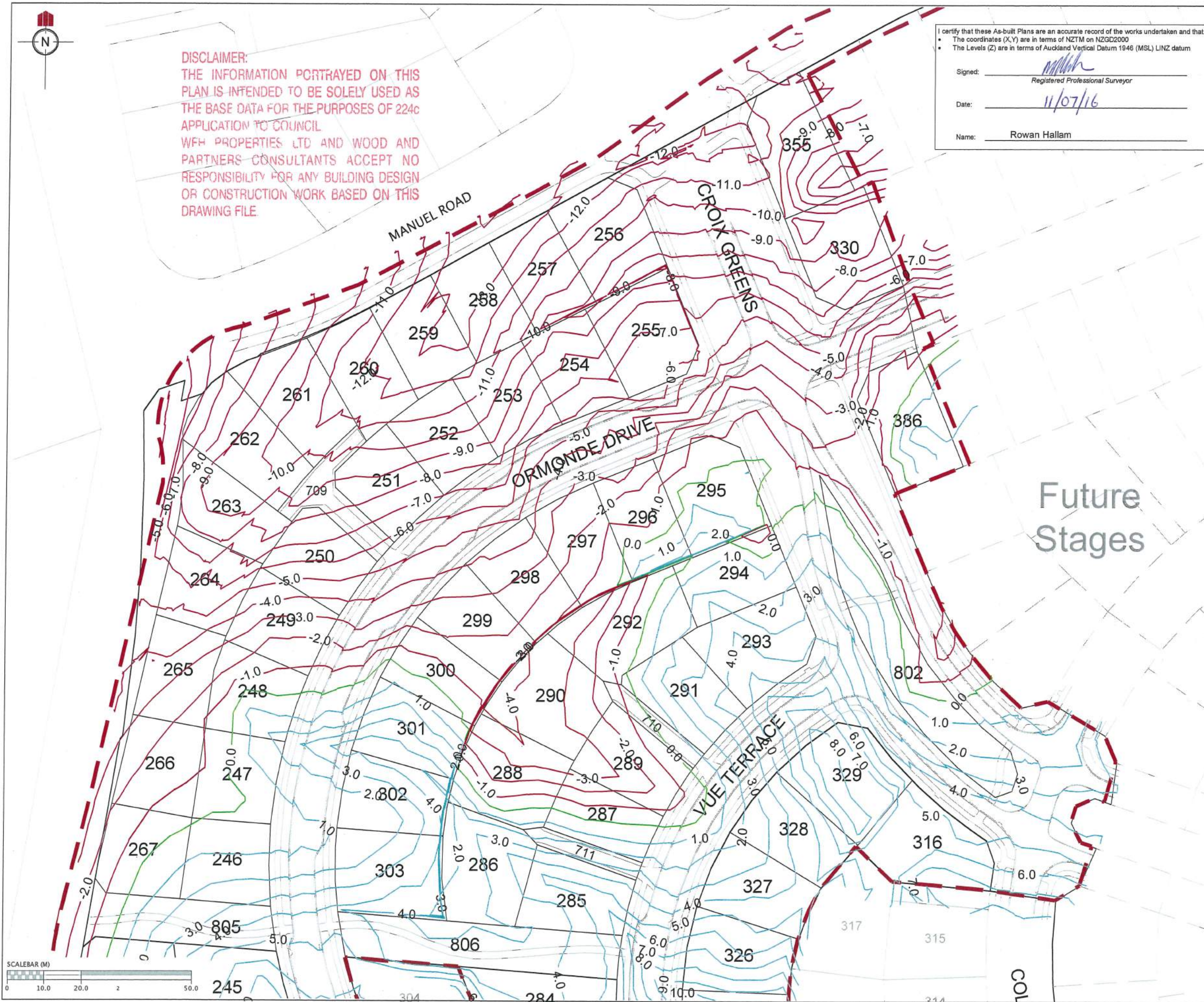
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 11/07/16

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.

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: 11/07/16

Name: Rowan Hallam

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	06/07/16

NOTES

1. CONTOURS ARE AT 1.0 METRE INTERVALS

LEGEND

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

CLIENT:



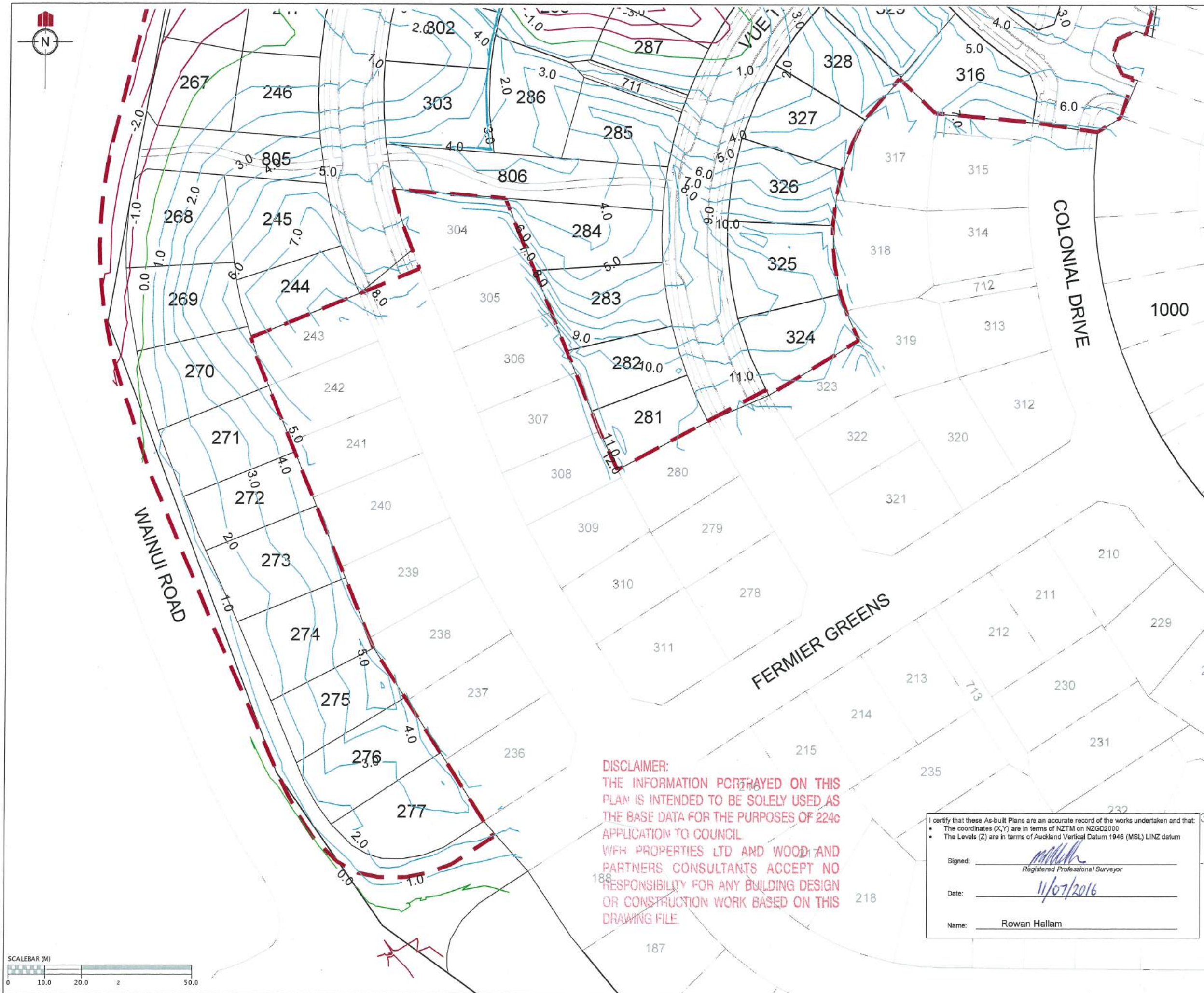
MILLWATER PRECINCT 2 STAGE 2C

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

Sheet 1 of 2

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-114	REV. 1



REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	06/07/16

NOTES
1. CONTOURS ARE AT 1.0 METRE INTERVALS

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

CLIENT:

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 2C**

**CUT/FILL CONTOUR AS-BUILT
ORIGINAL SURFACE - FINAL
SURFACE
Sheet 2 of 2**
AUCKLAND COUNCIL

DESIGNED:	TX	ASBUILT
CHECKED:	AC	DRAWN: AAC
APPROVED:	MLH	SURVEYED: RZ
JOB NUMBER:	33209	SCALE: 1:1000 @ A3
ISSUED:	MAY 2016	
DWG. NO.	33209-02C-AB-115	REV. 1

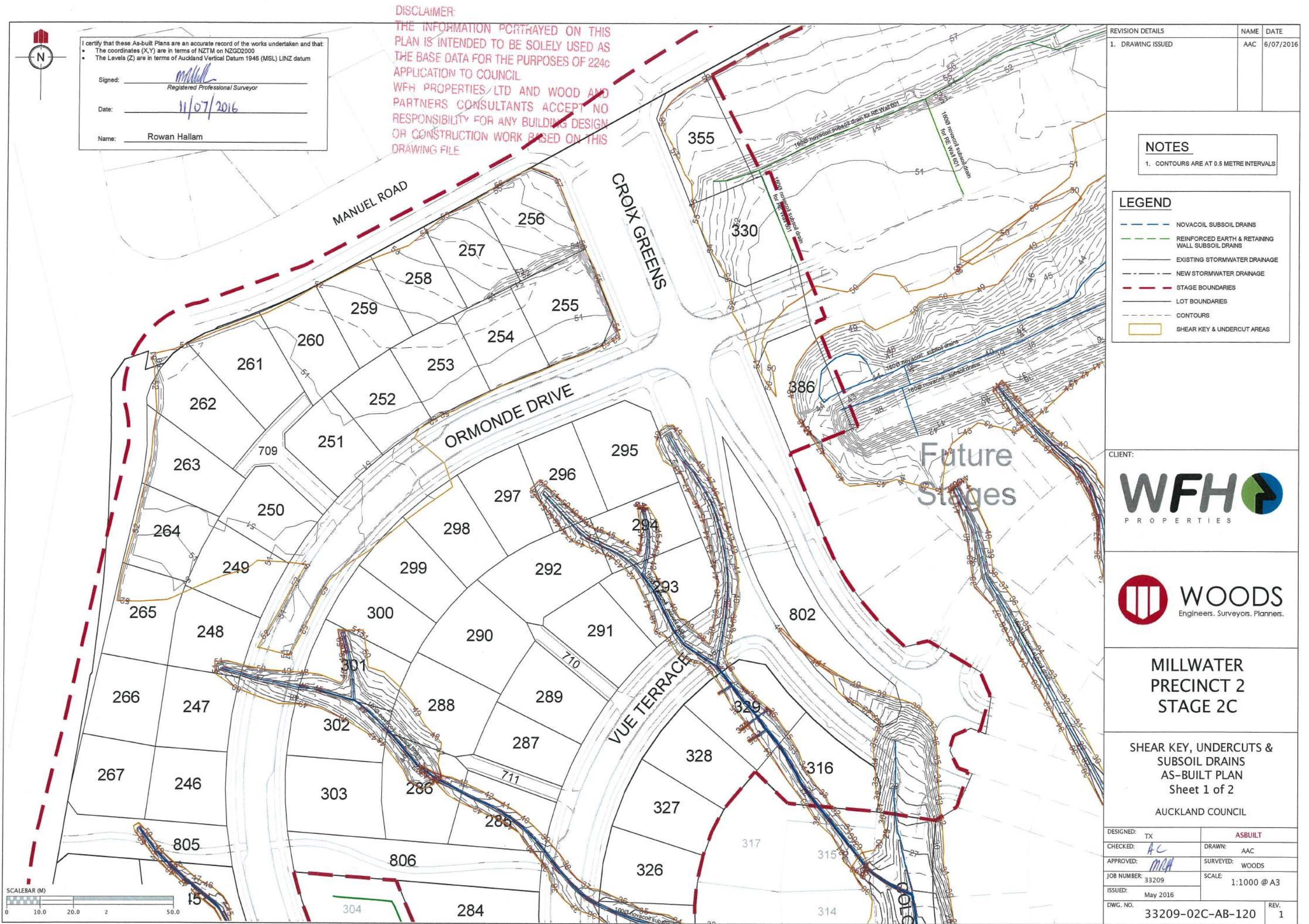
DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS
PLAN IS INTENDED TO BE SOLELY USED AS
THE BASE DATA FOR THE PURPOSES OF 224c
APPLICATION TO COUNCIL.
WFH PROPERTIES LTD AND WOODS AND
PARTNERS CONSULTANTS ACCEPT NO
RESPONSIBILITY FOR ANY BUILDING DESIGN
OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE.

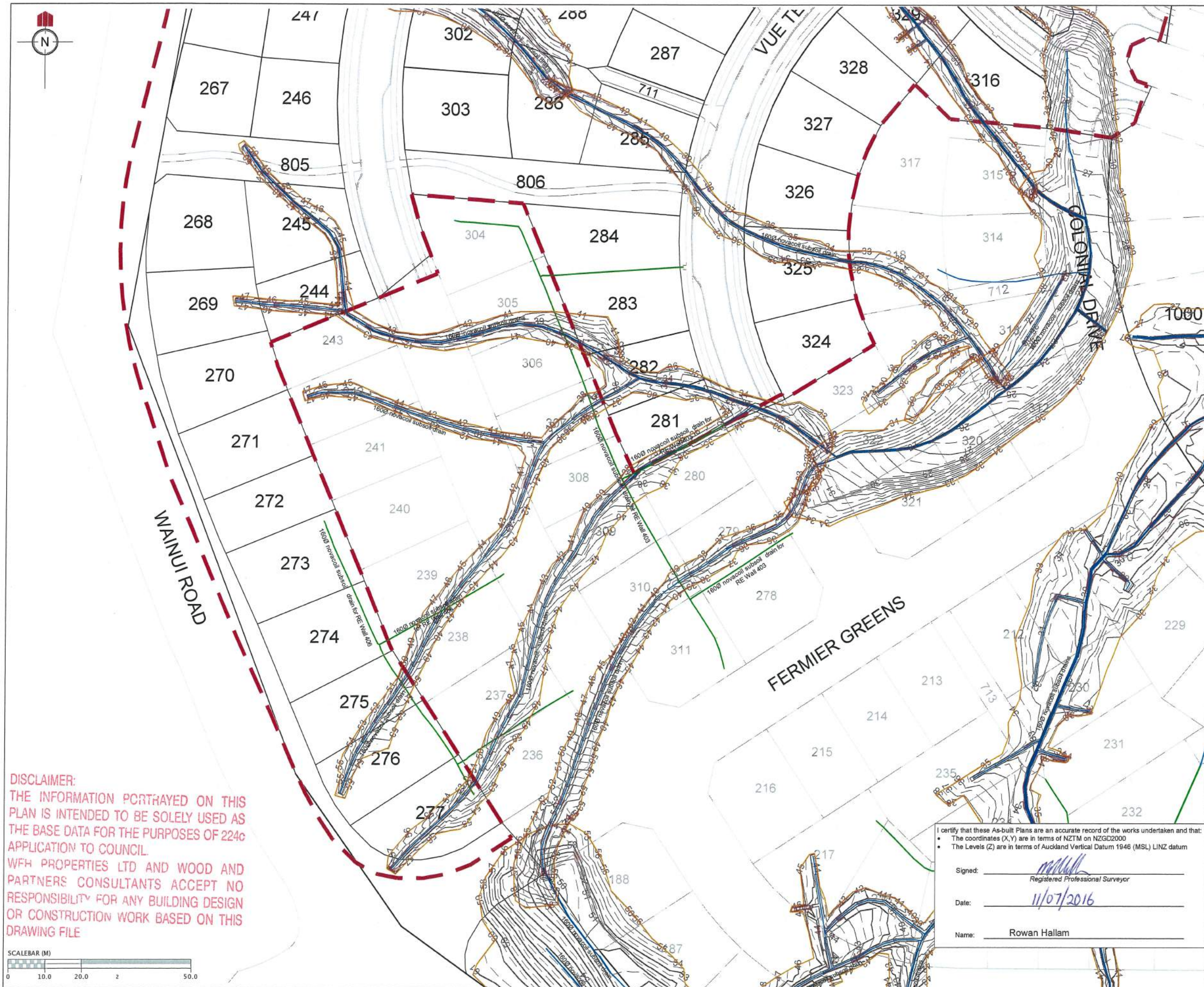
I certify that these As-built Plans are an accurate record of the works undertaken and that:
• The coordinates (X,Y) are in terms of NZTM on NZGD2000
• The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor

Date: 11/07/2016

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	6/07/2016

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:



MILLWATER
PRECINCT 2
STAGE 2C

SHEAR KEY, UNDERCUTS &
SUBSOIL DRAINS
AS-BUILT PLAN
Sheet 2 of 2

AUCKLAND COUNCIL

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

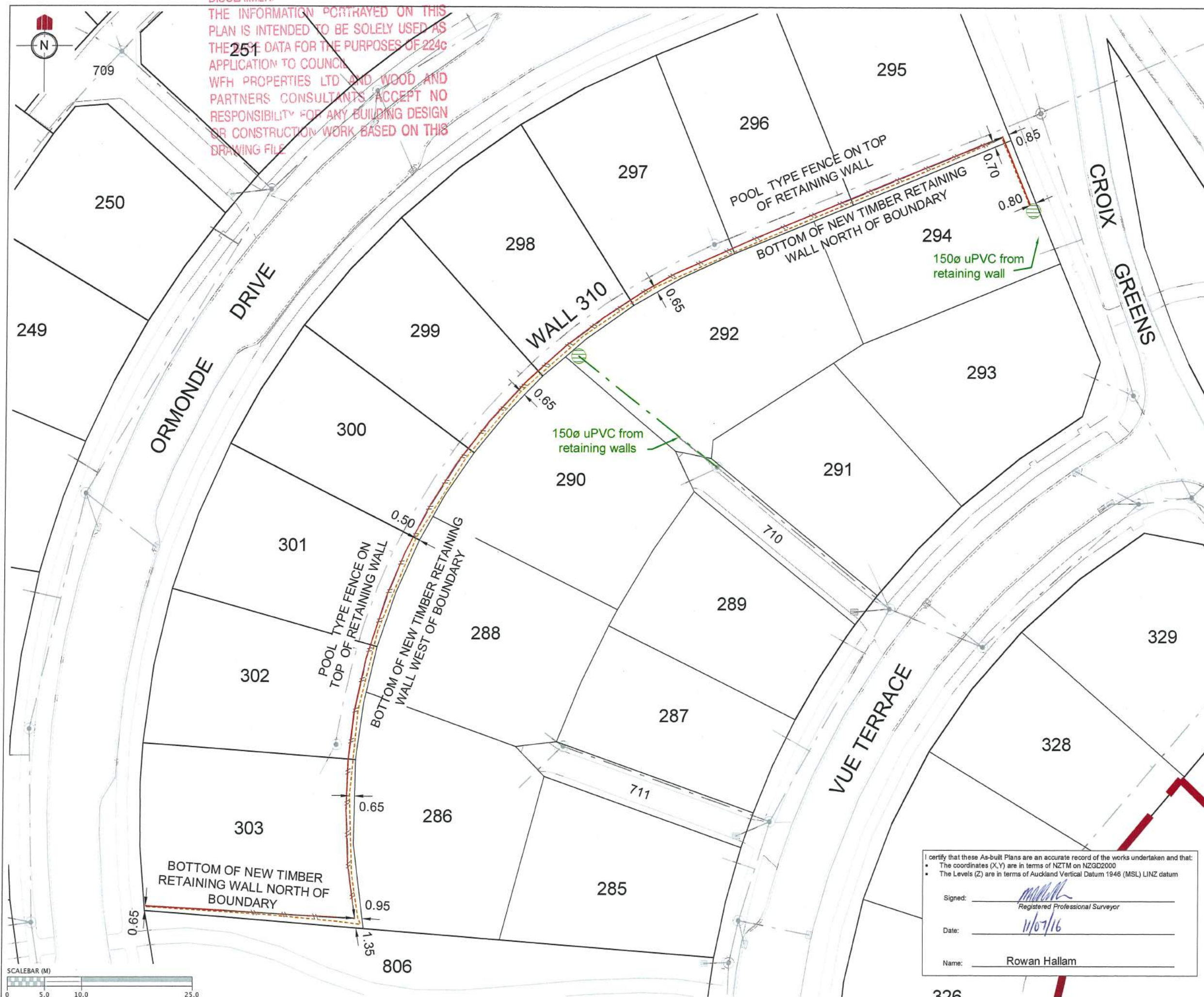
Signed: Rowan Hallam
Registered Professional Surveyor

Date: 11/07/2016

Name: Rowan Hallam

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: May 2016	
DWG. NO. 33209-02C-AB-121	REV. 1

DISCLAIMER:
THE INFORMATION PORTRAYED ON THIS
PLAN IS INTENDED TO BE SOLELY USED AS
THE 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	6/07/2016

LEGEND:

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

CLIENT:



MILLWATER PRECINCT 2 STAGE 2C

RETAINING WALL AS-BUILT Sheet 1 of 2

AUCKLAND COUNCIL

DESIGNED: TX	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: woods
JOB NUMBER: 33209	SCALE: 1:500 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-02C-AB-150	REV. 1

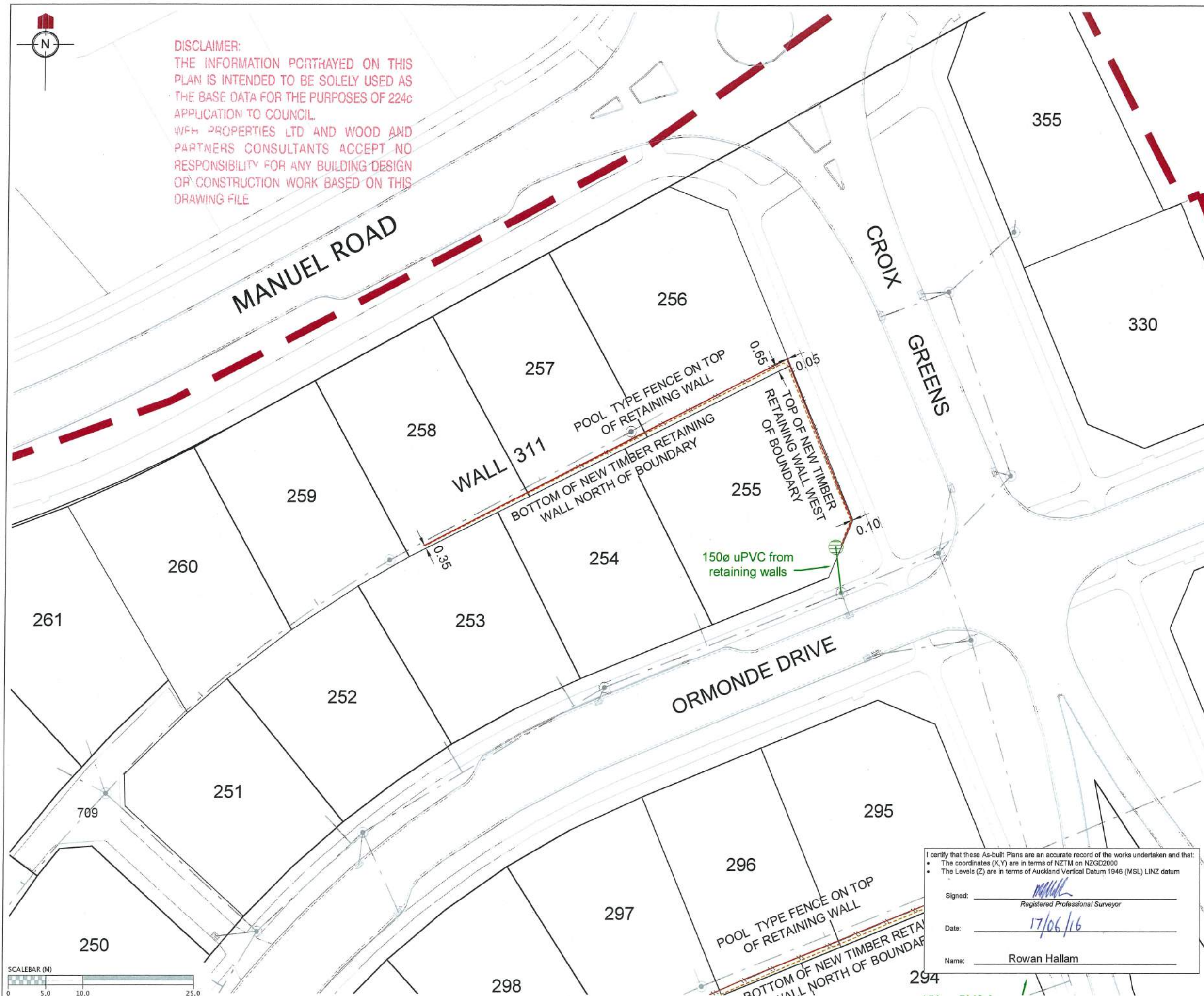
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 11/07/16

Name: Rowan Hallam



REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AAC	6/07/2016

LEGEND:

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

CLIENT:



MILLWATER PRECINCT 2 STAGE 2C

RETAINING WALL AS-BUILT Sheet 2 of 2

AUCKLAND COUNCIL

DESIGNED: TX	AS-BUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MMH	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:500 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-02C-AB-151	REV. 1

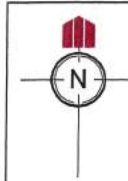
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 17/06/16

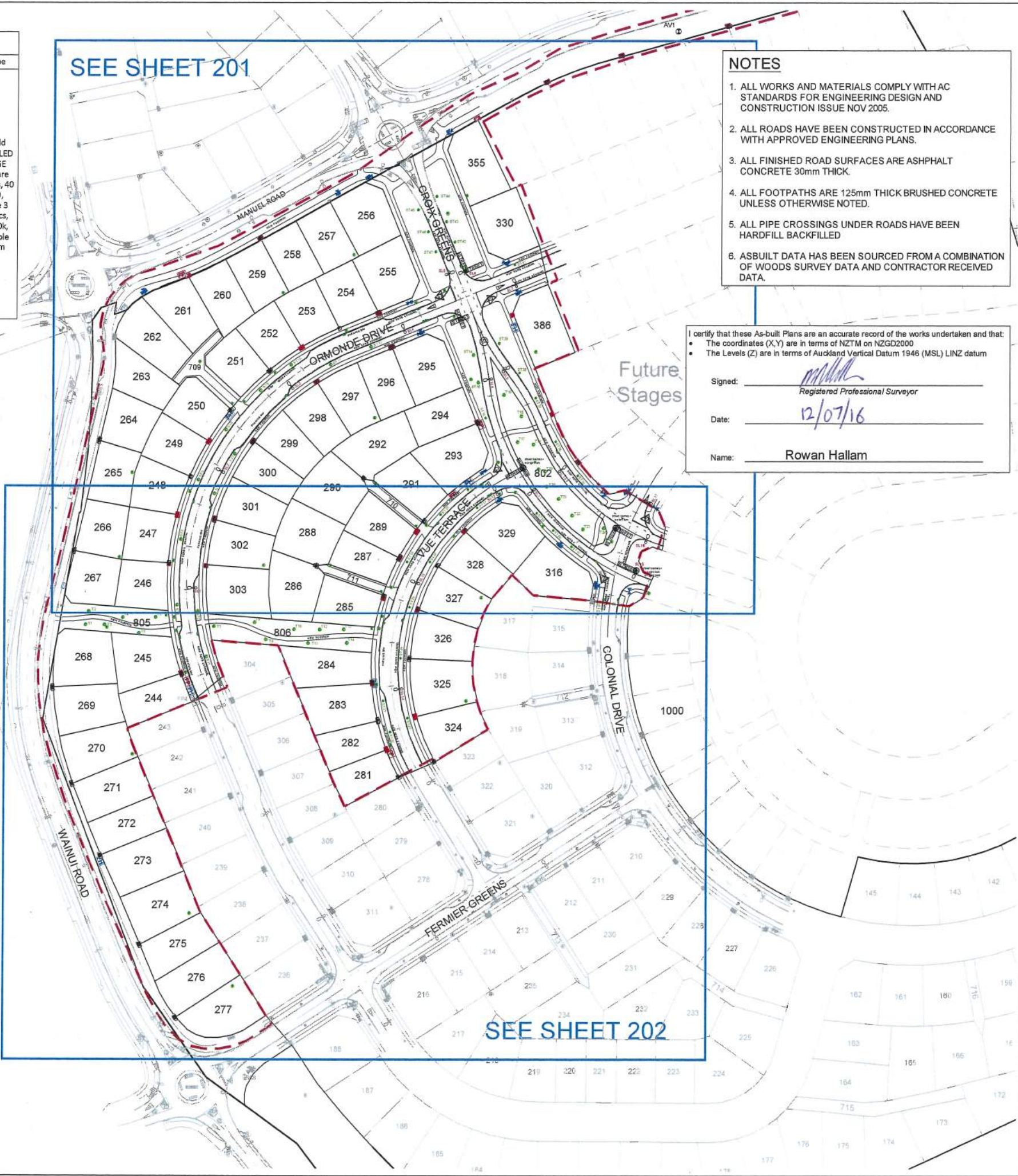
Name: Rowan Hallam



SCHEDULE OF COORDINATES STREETLIGHTS			
	mE	mN	Type
SL1	1749102.16	5946800.72	Rudd Beta/LED EDGE Square Seires, 40 LED, Type 3 Optics, 4300K, Vicipole 7.5m
SL2	1749114.74	5946854.25	
SL3	1749146.67	5946893.13	
SL4	1749198.53	5946919.09	
SL5	1749217.53	5946945.59	
SL6	1749226.76	5946947.43	
SL7	1749250.09	5946940.13	
SL8	1749238.64	5946897.58	
SL9	1749244.09	5946900.89	
SL10	1749270.4	5946854.91	
SL11	1749258.71	5946846.38	
SL12	1749241.7	5946844.31	
SL13	1749205.31	5946802.82	
SL14	1749197.84	5946754.2	
SL15	1749306.02	5946808.99	
SL16	1749310.39	5946822.08	
SL17	1749312.88	5946839.95	

SCHEDULE OF COORDINATES STREET TREES			
	mE	mN	SPECIES
ST1	1749107.23	5946769.02	LIQUIDAMBER
ST2	1749103.29	5946789.89	
ST3	1749093.52	5946792.89	
ST4	1749095.21	5946823.27	
ST5	1749103.20	5946850.85	
ST6	1749110.64	5946844.49	
ST7	1749119.88	5946862.87	
ST8	1749115.87	5946873.96	
ST9	1749131.66	5946892.19	
ST10	1749145.83	5946903.97	
ST11	1749164.21	5946904.05	TITOKI
ST12	1749182.83	5946912.31	
ST14	1749230.34	5946908.53	
ST15	1749232.63	5946895.86	
ST16	1749236.13	5946879.49	
ST17	1749228.03	5946846.39	
ST18	1749215.44	5946834.79	
ST19	1749199.99	5946812.88	
ST21	1749189.28	5946748.64	
ST22	1749192.55	5946734.27	POHUTUKAWA
ST23	1749200.51	5946740.73	
ST24	1749197.23	5946768.34	
ST25	1749201.28	5946791.94	
ST26	1749210.58	5946812.92	
ST27	1749232.38	5946837.91	
ST28	1749259.97	5946835.4	
ST29	1749267.64	5946827.49	
ST30	1749276.13	5946820.03	
ST31	1749288.51	5946788.9	MAGNOLIA
ST35	1749278.9	5946852.84	
ST36	1749268.55	5946868.55	
ST37	1749259.22	5946888.68	
ST38	1749251.71	5946900.27	
ST39	1749242.29	5946913.92	
ST41	1749249.32	5946950.07	
ST42	1749221.49	5946960.58	
ST43	1749217.56	5946969.92	
ST44	1749212.94	5946981.54	TITOKI
ST45	1749204.44	5946975.43	
ST46	1749209.13	5946965.29	
ST47	1749212.68	5946956.08	

SEE SHEET 201



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: MRH
Registered Professional Surveyor
Date: 12/07/16
Name: Rowan Hallam

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	12/07/2016

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



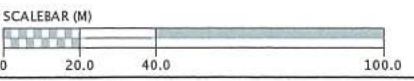
MILLWATER
PRECINCT 2
STAGE 2C

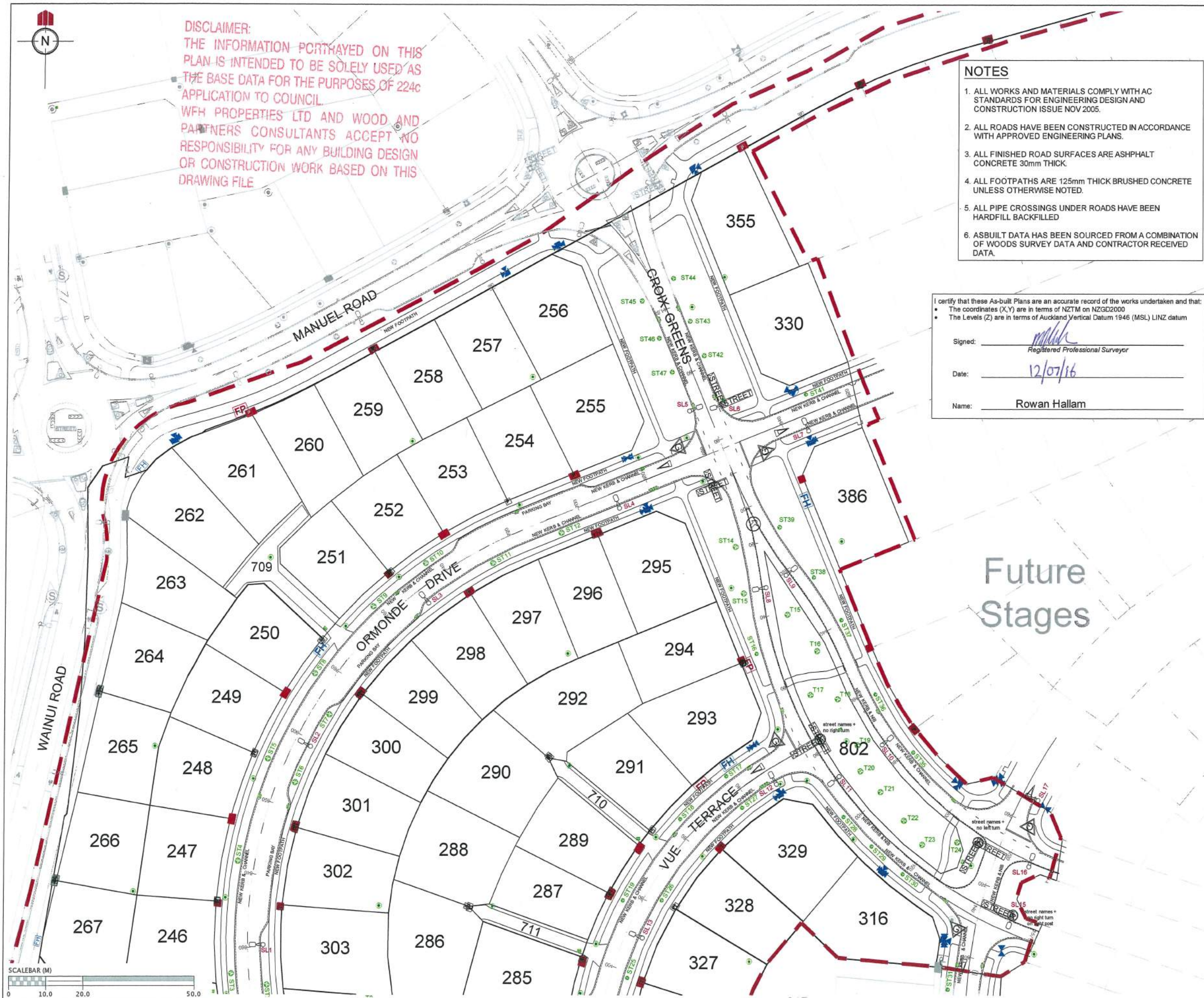
ROADING AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 3

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: <u>AL</u>	DRAWN: AAC
APPROVED: <u>MRH</u>	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:2000 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-02C-AB-200	REV. 1

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	12/07/2016

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

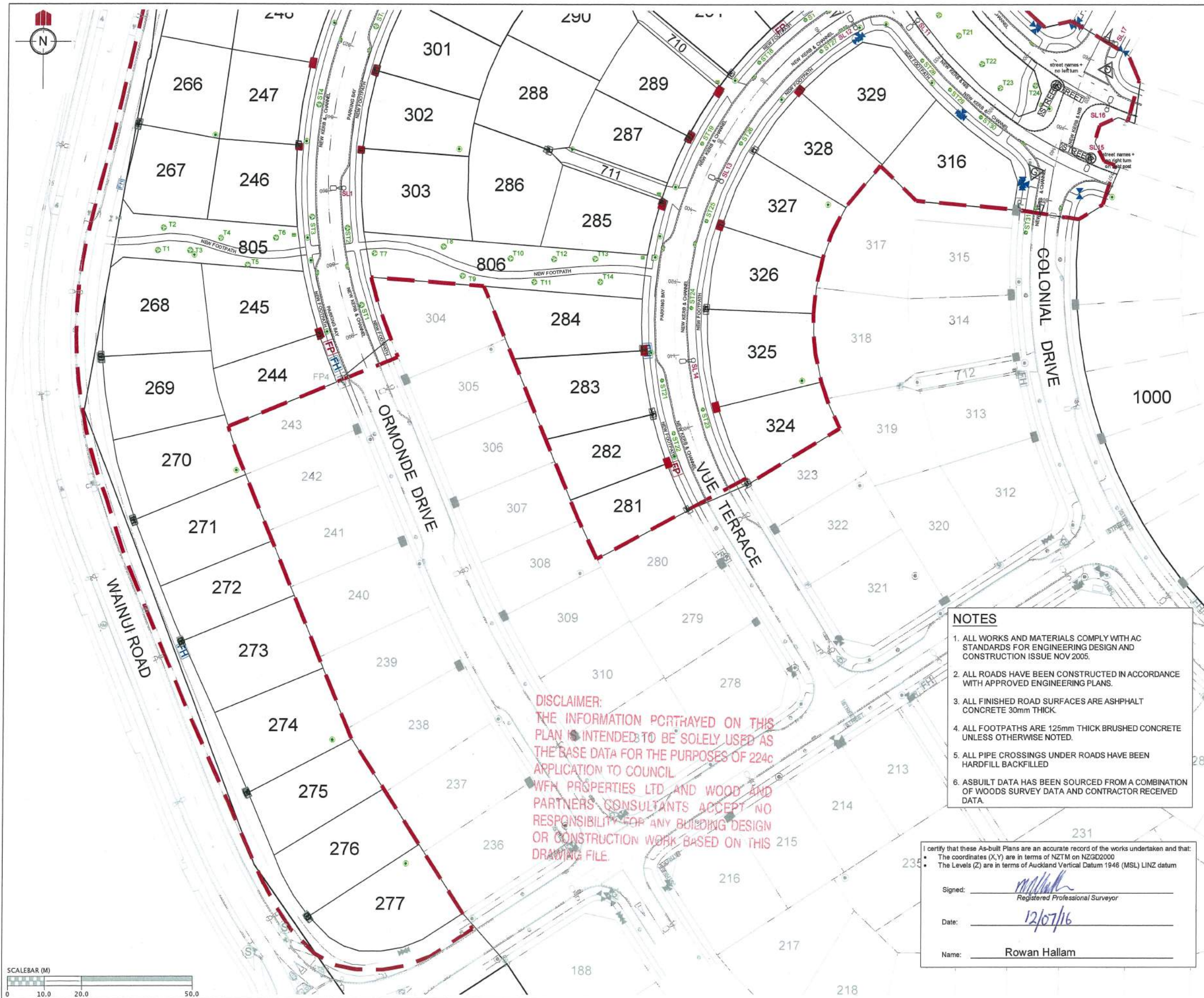
WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 2C**

**ROADING AS-BUILT
SHEET 2 OF 3**

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-02C-AB-201	REV. 1



REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	12/07/2016

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 2C

ROADING AS-BUILT
SHEET 3 OF 3

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: RCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-02C-AB-202	REV. 1

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 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.

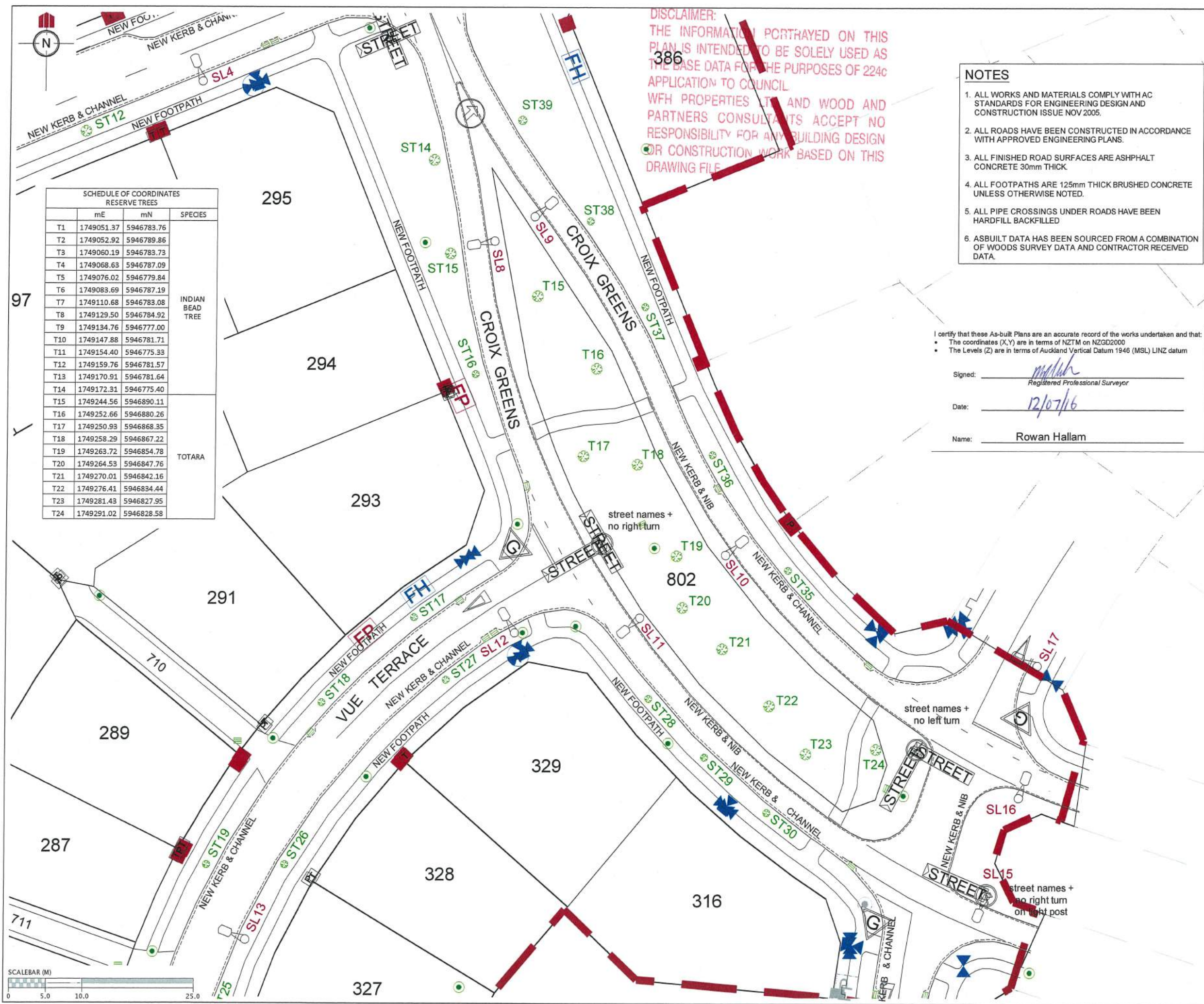
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 12/07/16

Name: Rowan Hallam



REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	6/07/2016

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

- 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: 12/07/16

Name: Rowan Hallam

CLIENT:

WFH
PROPERTIES

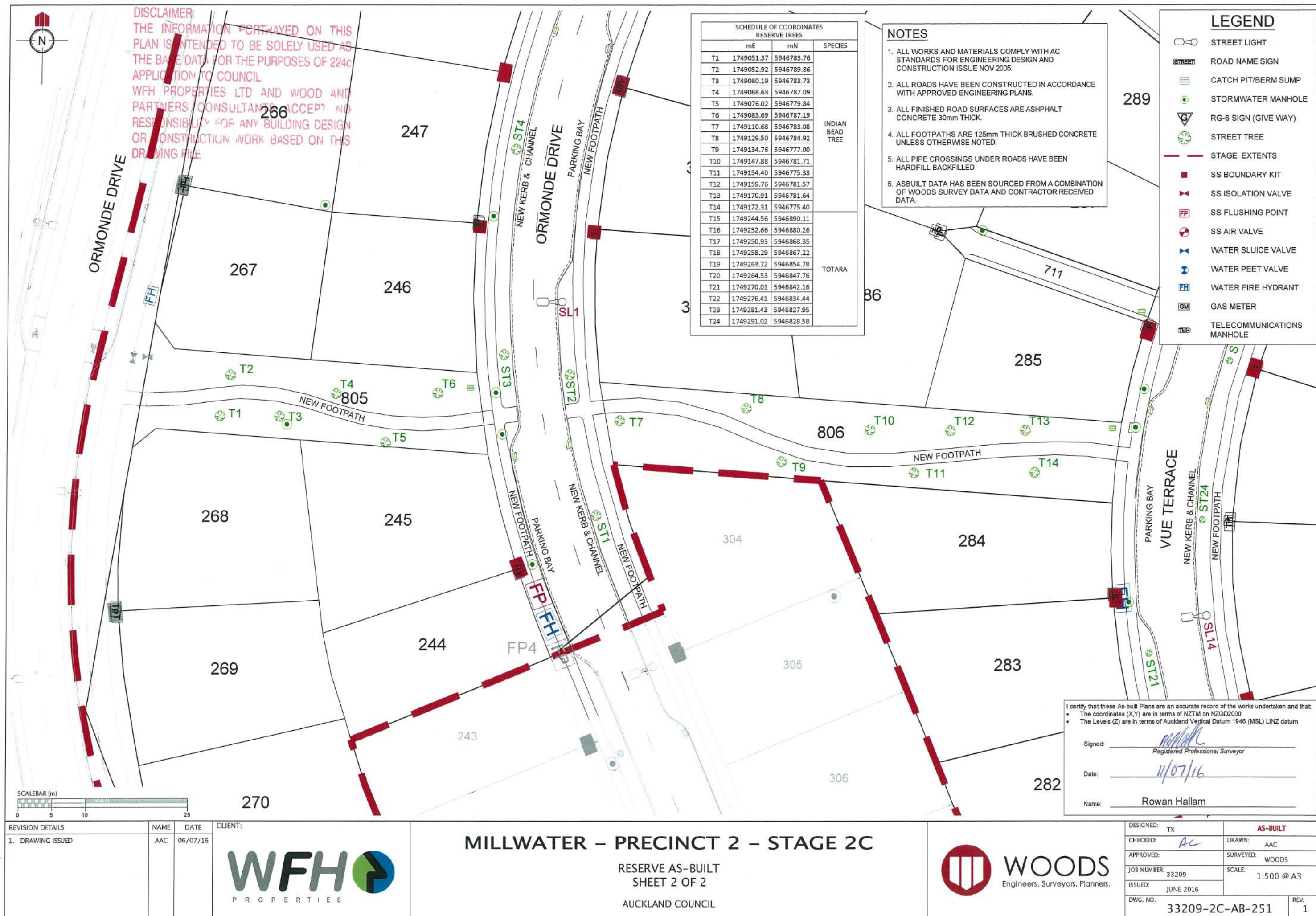
WOODS
Engineers. Surveyors. Planners.

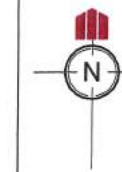
**MILLWATER
PRECINCT 2
STAGE 2C**

RESERVE AS-BUILT
SHEET 1 OF 2

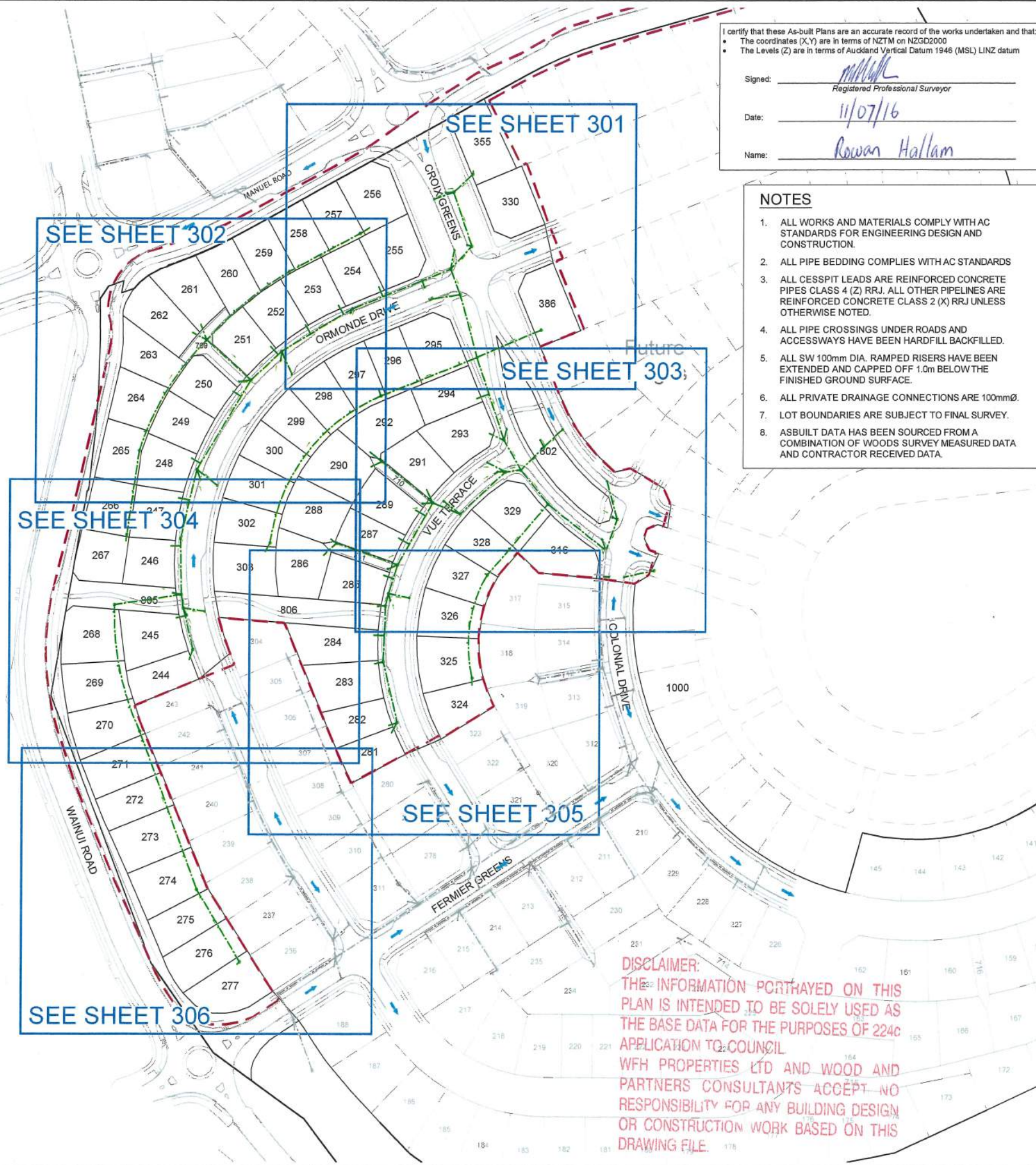
AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MHA	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:500 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-02C-AB-250	REV. 1





SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot	mE	mN	length
Lot 244	1749096.03	5946757.16	4.3
Lot 245	1749090.09	5946776.44	4
Lot 246	1749087.33	5946809.78	4.6
Lot 247	1749090.87	5946832.22	5.1
Lot 248	1749096.82	5946850.64	4.6
Lot 249			
Lot 250	1749115.87	5946881.61	4.3
Lot 251	1749133.42	5946902.46	5
Lot 252	1749149.55	5946912.47	4.7
Lot 253	1749164.79	5946921.31	4.4
Lot 254	1749183.52	5946929.99	4.7
Lot 255			
Lot 256	1749179.15	5946957.33	4.5
Lot 257	1749162.15	5946948.57	0.5
Lot 258	1749146.28	5946939.94	0.4
Lot 259	1749131.73	5946931.70	0.9
Lot 260	1749116.06	5946919.04	0.7
Lot 261	1749100.79	5946912.58	7.1
Lot 262	1749096.91	5946908.82	6.8
Lot 263	1749092.22	5946893.45	0.6
Lot 264	1749083.64	5946881.00	0.75
Lot 265	1749074.82	5946862.97	0.7
Lot 266	1749069.29	5946835.33	0.45
Lot 267	1749066.50	5946812.19	2.5
Lot 268	1749060.65	5946779.21	0.6
Lot 269	1749062.83	5946754.10	0.7
Lot 270	1749068.15	5946734.85	0.6
Lot 271	1749074.28	5946719.45	0.6
Lot 272	1749081.00	5946701.63	0.4
Lot 273	1749086.47	5946686.57	0.4
Lot 274	1749093.81	5946666.30	0.5
Lot 275	1749101.64	5946647.15	0.5
Lot 276	1749110.00	5946633.42	0.4
Lot 277	1749118.92	5946616.53	0.9
Lot 281	1749190.31	5946723.36	4.5
Lot 282	1749188.88	5946726.63	3.4
Lot 283	1749182.23	5946755.31	3.5
Lot 284	1749181.97	5946768.56	4.8
Lot 285	1749186.28	5946796.23	4.8
Lot 286	1749158.56	5946805.57	7.6
Lot 287	1749193.11	5946813.49	5.9
Lot 288	1749162.02	5946813.01	3
Lot 289	1749200.87	5946826.52	5.5
Lot 290	1749180.32	5946846.78	4.9
Lot 291	1749205.96	5946836.12	6.4
Lot 292	1749179.68	5946853.52	6.6
Lot 293	1749235.17	5946862.08	6.9
Lot 294	1749229.12	5946878.35	6.1
Lot 295	1749220.70	5946895.10	1
Lot 296	1749201.28	5946886.91	0.6
Lot 297	1749183.74	5946881.86	1.95
Lot 298	1749170.35	5946872.39	0.6
Lot 299	1749157.90	5946862.30	0.6
Lot 300	1749148.84	5946851.55	0.5
Lot 301	1749140.60	5946837.71	0.6
Lot 302	1749135.82	5946824.46	0.5
Lot 303	1749131.38	5946807.29	4
Lot 324	1749227.57	5946745.54	2.5
Lot 325	1749225.13	5946764.97	0.6
Lot 326	1749227.16	5946781.05	0.8
Lot 327	1749233.46	5946796.93	0.5
Lot 328	1749244.47	5946808.85	0.4
Lot 329	1749259.47	5946826.67	0.6
Lot 330			
Lot 355	1749227.10	5946983.57	
Lot 386			



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: *11/07/16*

Name: *Rowan Hallam*

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	11/07/16

LEGEND

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

CLIENT:



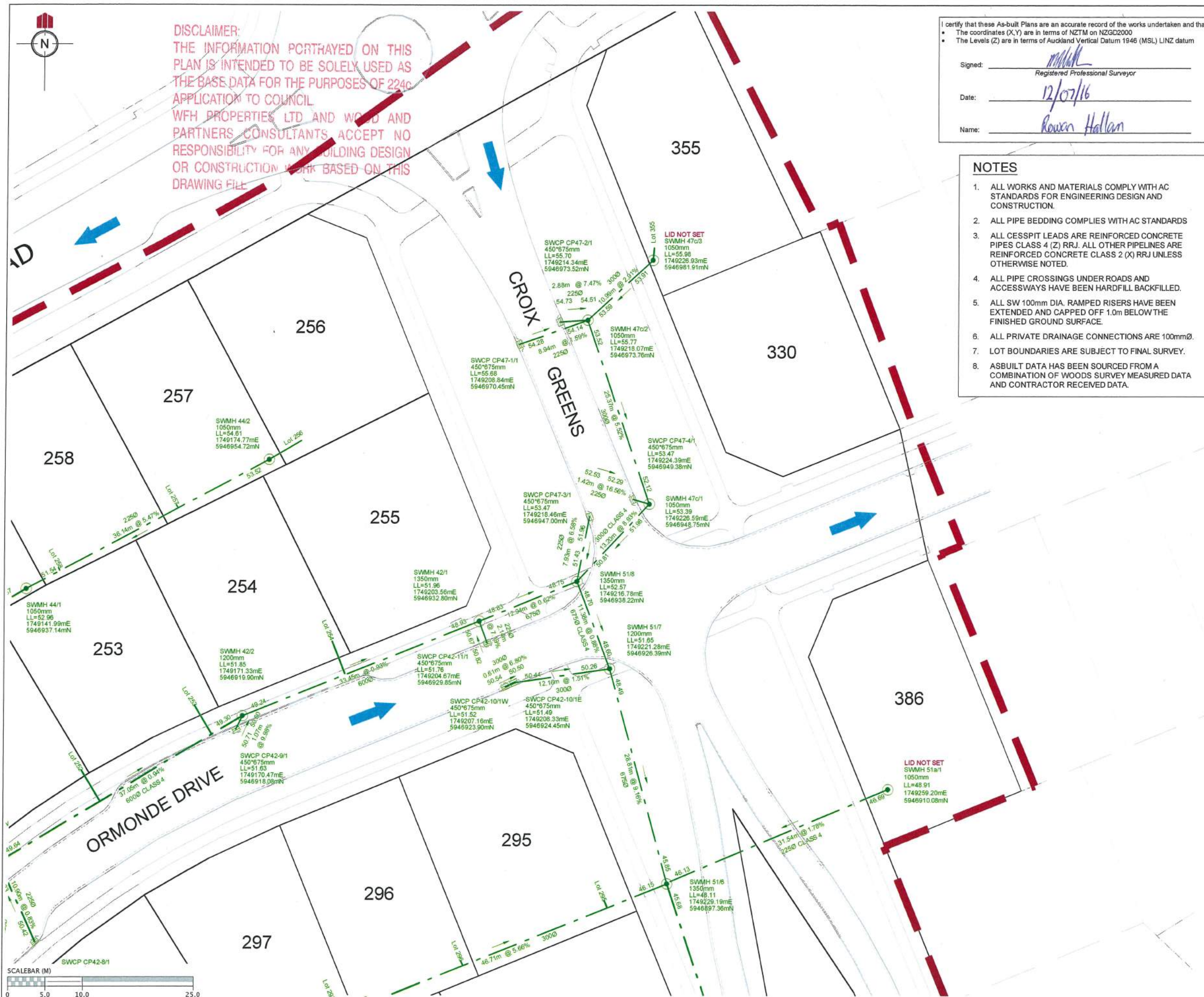
MILLWATER PRECINCT 2 STAGE 2C

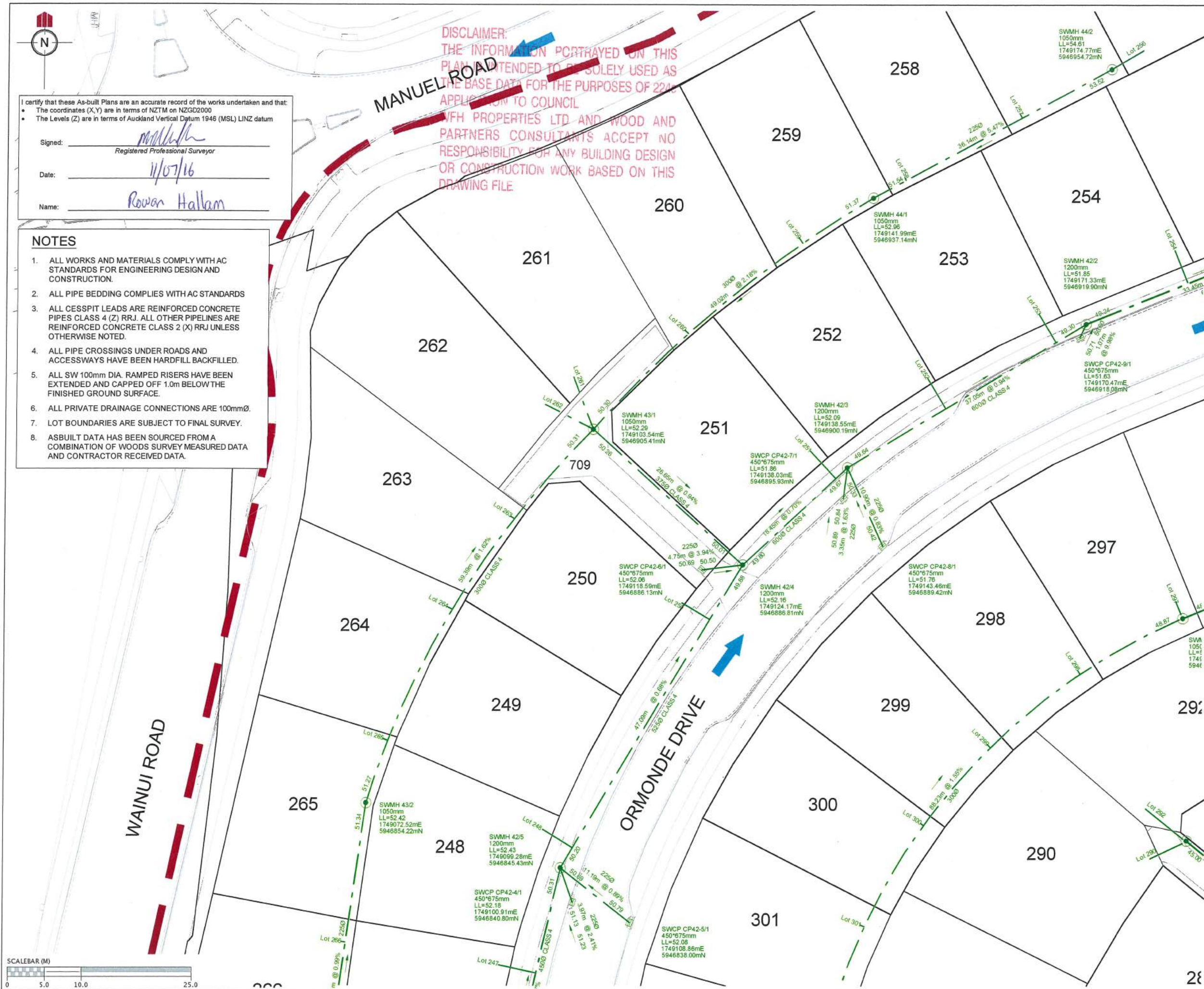
STORMWATER AS-BUILT OVERALL LAYOUT Sheet 1 of 7

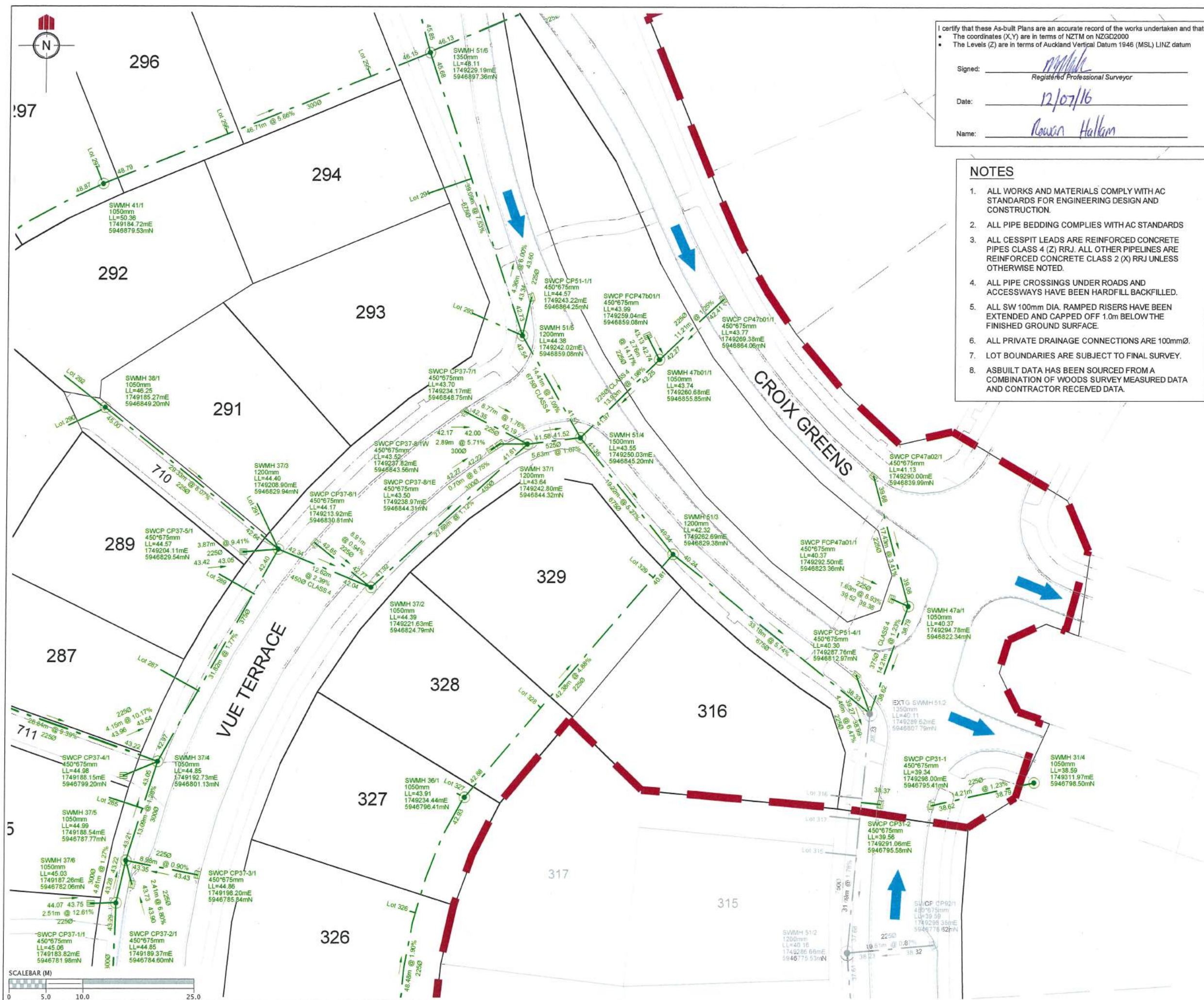
AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: <i>[Signature]</i>	DRAWN: AAC
APPROVED: <i>[Signature]</i>	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:2000 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-2C-AB-300	REV. 1

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.







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: 12/07/16

Name: Rowan Hallam

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.

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	11/07/16

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

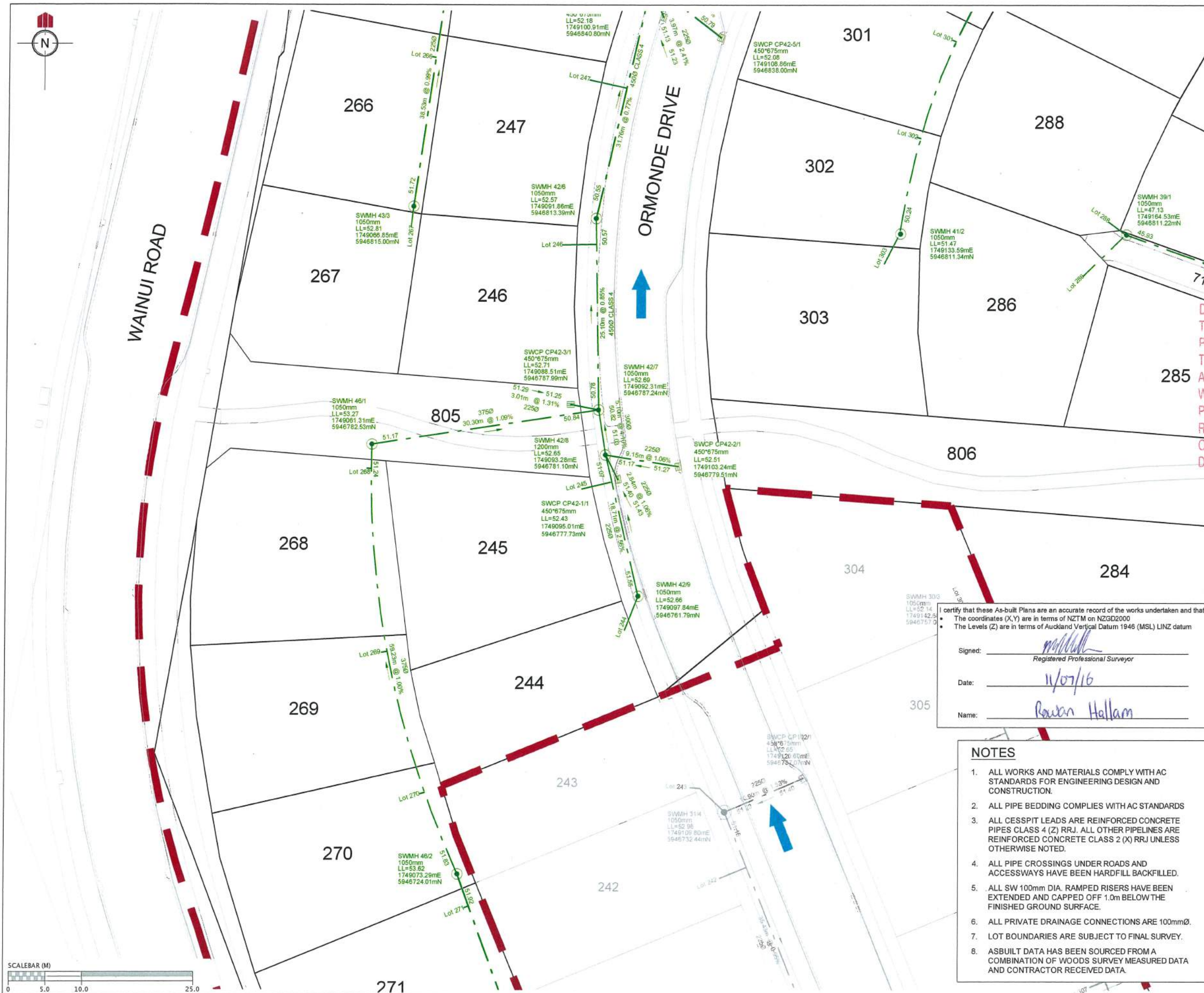


MILLWATER PRECINCT 2 STAGE 2C

STORMWATER AS-BUILT Sheet 4 of 7

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: [Signature]	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:500 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-2C-AB-303	REV. 1



REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	11/07/16

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

CLIENT:

WFH
PROPERTIES

WOODS
Engineers. Surveyors. Planners.

**MILLWATER
PRECINCT 2
STAGE 2C**

**STORMWATER AS-BUILT
Sheet 5 of 7**

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MRH	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:500 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-2C-AB-304	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

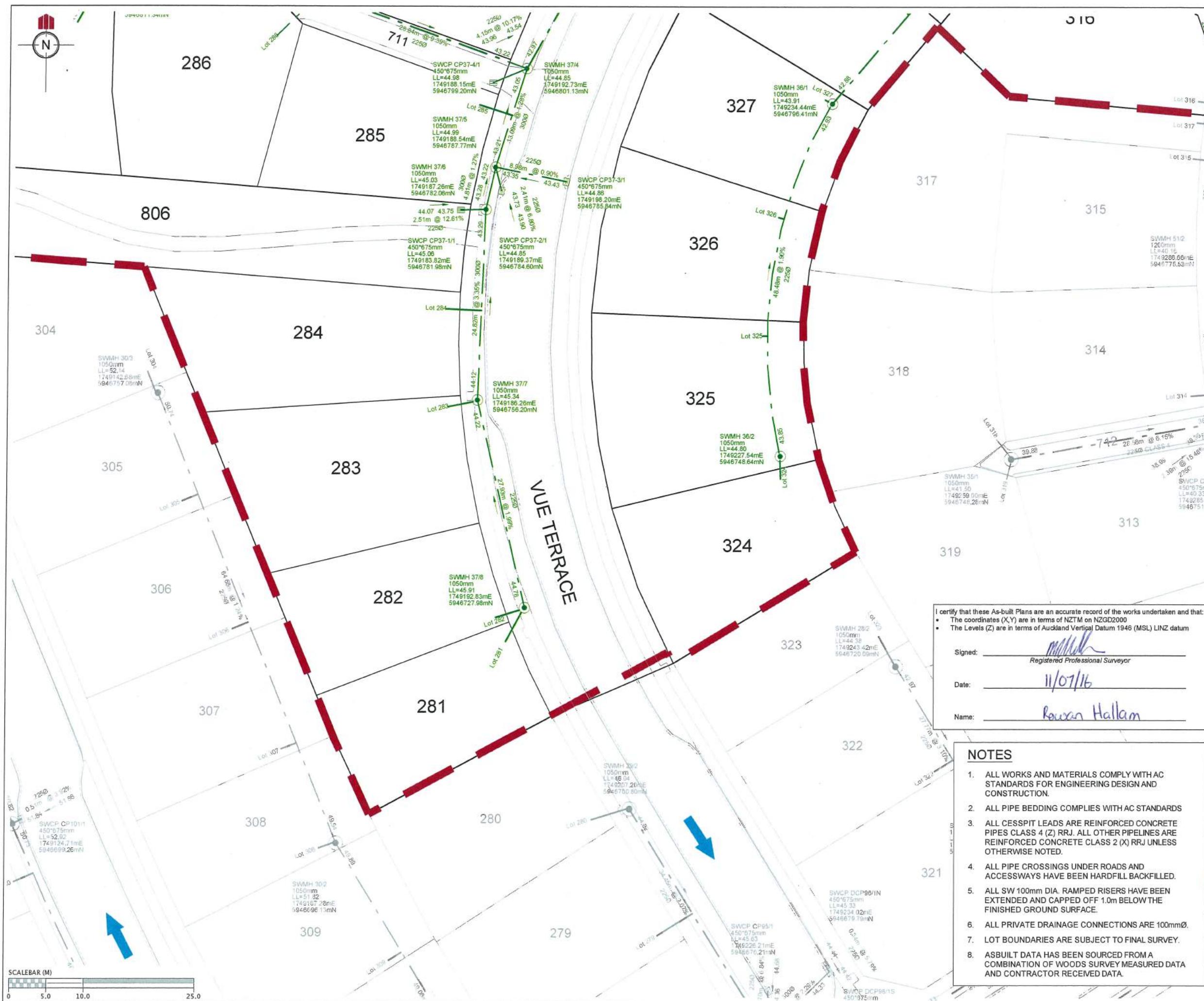
Signed:
Registered Professional Surveyor

Date: 11/07/16

Name: Robyn Hallam

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	11/07/16

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.

CLIENT:



MILLWATER PRECINCT 2 STAGE 2C

STORMWATER AS-BUILT
Sheet 6 of 7

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED:	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:500 @ A3
ISSUED: JUNE 2016	
DWG. NO. 33209-2C-AB-305	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

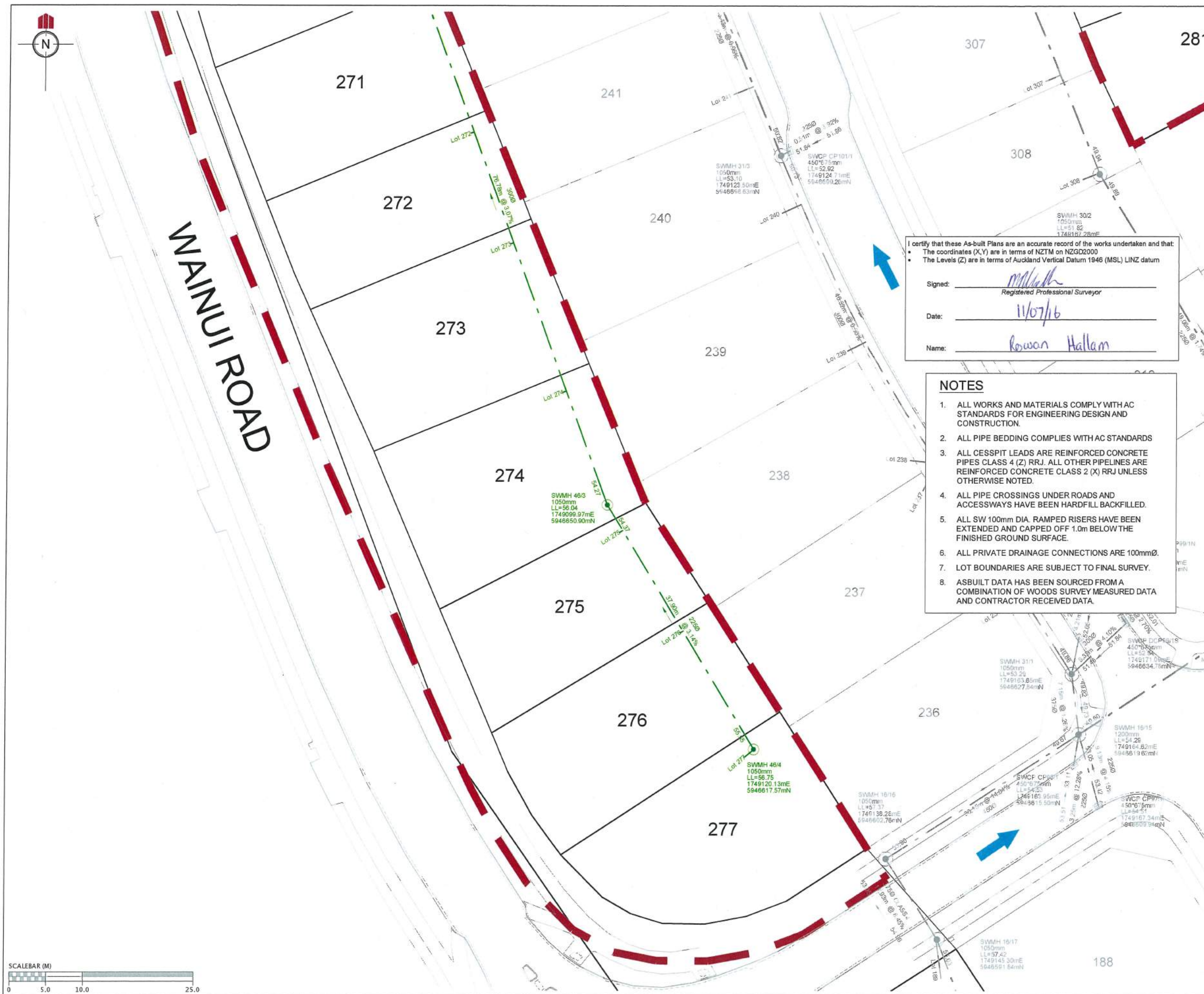
Signed:
Registered Professional Surveyor

Date: 11/07/16

Name: Rowan Hallam

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	11/07/16

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

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: 11/07/16

Name: Rowan Hallam

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.

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

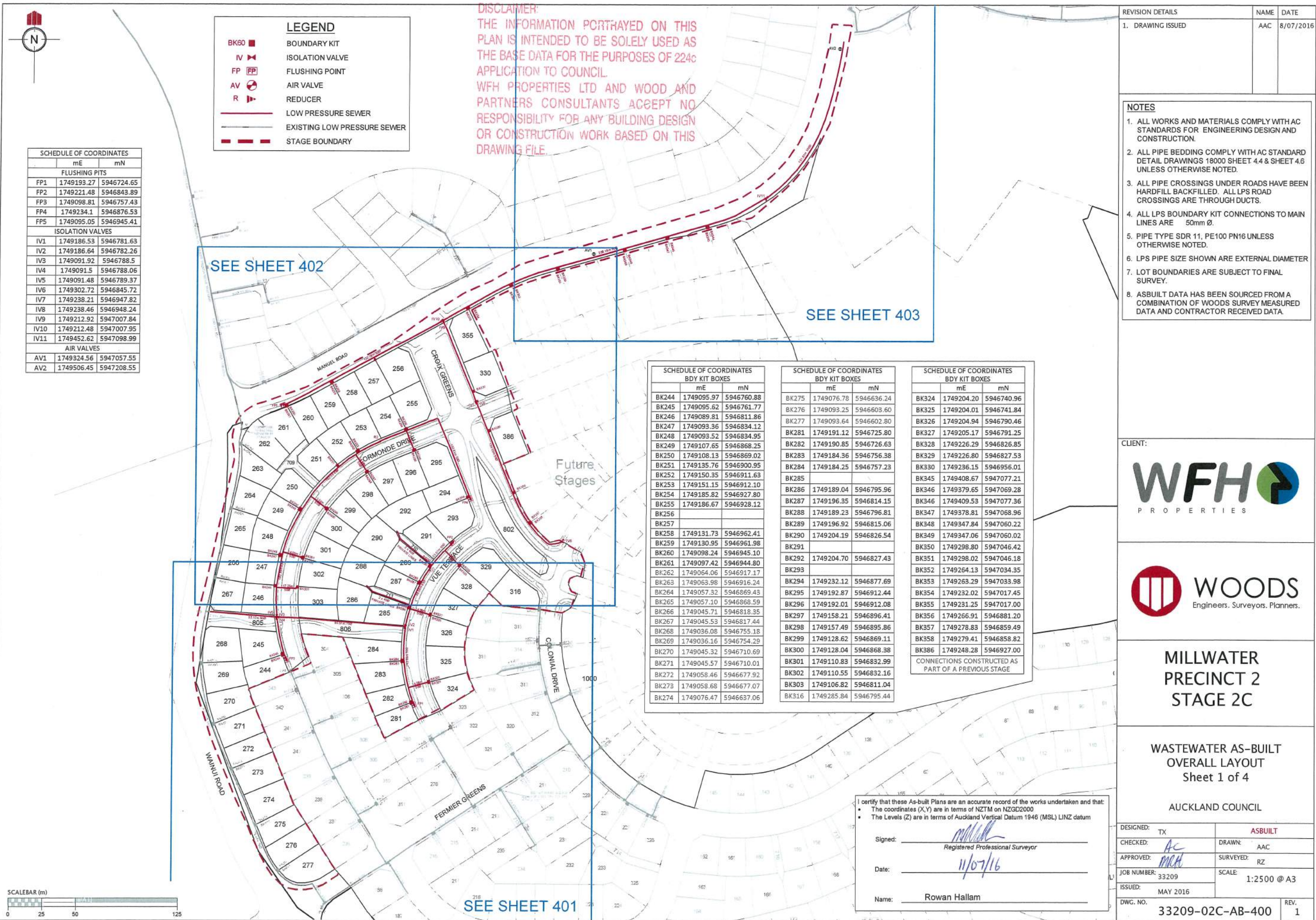


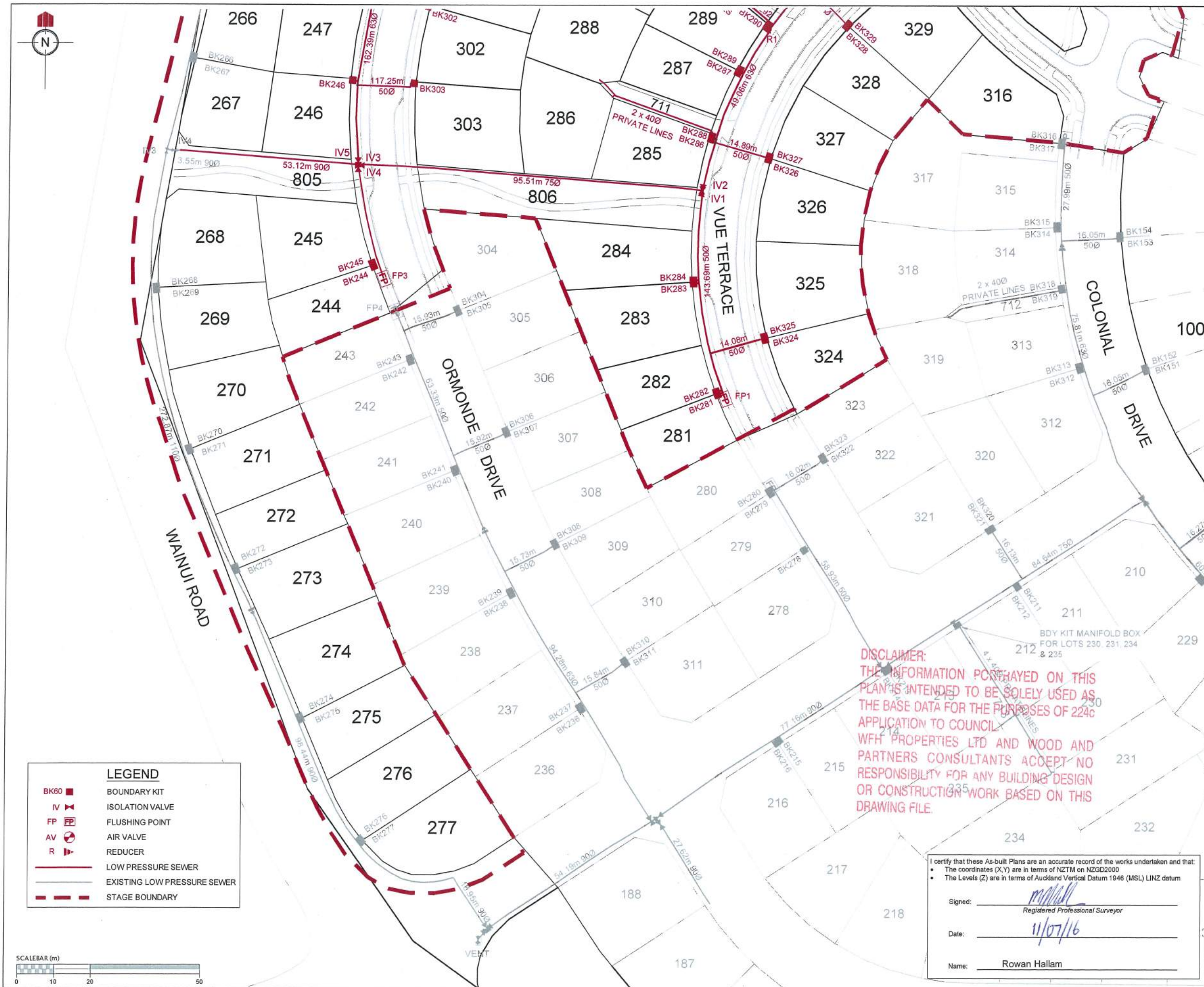
MILLWATER PRECINCT 2 STAGE 2C

STORMWATER AS-BUILT Sheet 7 of 7

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: WOODS
JOB NUMBER: 33209	SCALE: 1:500 @ A3
ISSUED: JUNE 2016	
DWC. NO. 33209-2C-AB-306	REV. 1





REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	8/07/2016

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.

CLIENT:

MILLWATER PRECINCT 2 STAGE 2C

WASTEWATER AS-BUILT Sheet 2 of 4

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCA	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-401	REV. 1

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.

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

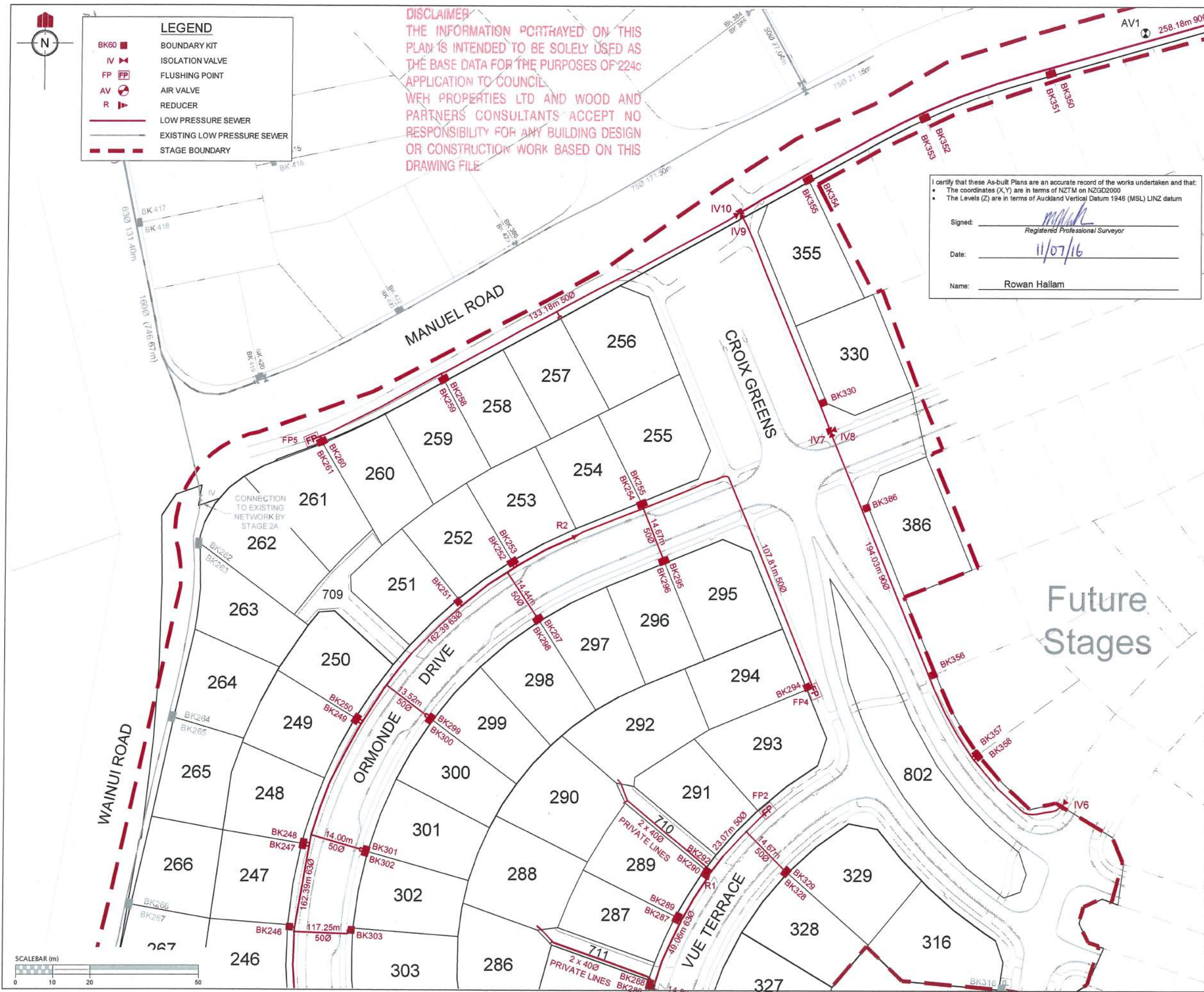
Date: 11/07/16

Name: Rowan Hallam

LEGEND

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

SCALEBAR (m)
0 10 20 50



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.
WEH 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	8/07/2016

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDINGS 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: Rowan Hallam
Registered Professional Surveyor
Date: 11/07/16
Name: Rowan Hallam

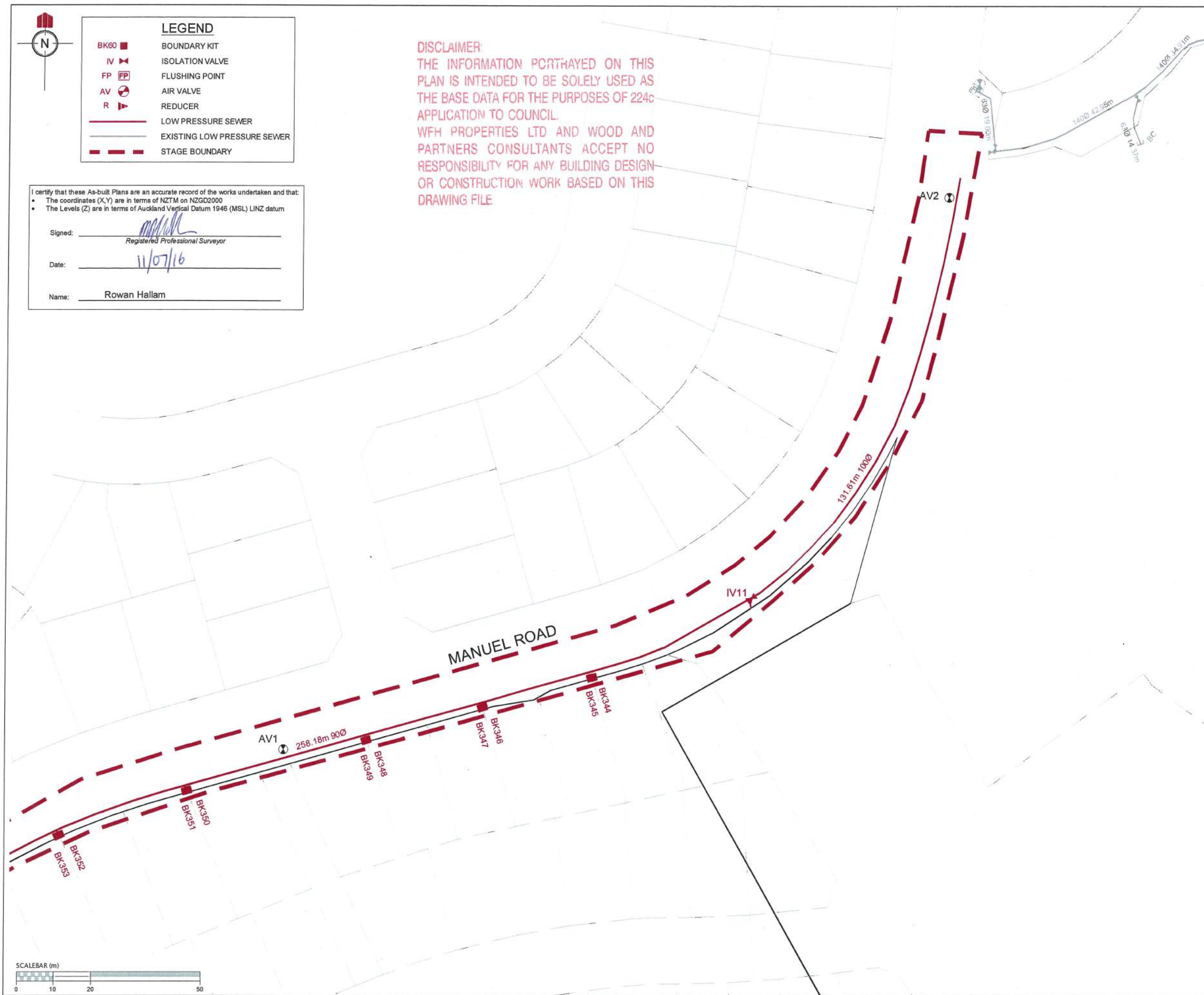


**MILLWATER
PRECINCT 2
STAGE 2C**

WASTEWATER AS-BUILT
Sheet 3 of 4

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-402	REV. 1



REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	8/07/2016

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.

CLIENT:



WFH
PROPERTIES



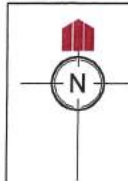
WOODS
Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 2C

WASTEWATER AS-BUILT
Sheet 4 of 4

AUCKLAND COUNCIL

DESIGNED:	TX	ASBUILT
CHECKED:	AC	DRAWN: AAC
APPROVED:	MOA	SURVEYED: RZ
JOB NUMBER:	33209	SCALE: 1:1000 @ A3
ISSUED:	MAY 2016	
DWG. NO.	33209-02C-AB-403	REV. 1



SCHEDULE OF COORDINATES		
FIRE HYDRANTS		
	mE	mN
FH1	1749185.24	5946756.73
FH2	1749228.53	5946849.83
FH3	1749249.43	5946921.22
FH4	1749068.36	5946929.96
FH5	1749041.11	5946801.68
FH6	1749059.12	5946674.87
FH7	1749100.34	5946753.00
FH8	1749117.50	5946880.53
PEET VALVES		
	mE	mN
PV1	1749242.20	5946841.26
PV2	1749245.77	5946951.22
PV3	1749205.47	5946918.53
PV4	1749441.03	5947079.50
SLUICE VALVES		
	mE	mN
SV1	1749077.19	5946937.34
SV2	1749077.70	5946937.71
SV3	1749077.32	5946937.78
SV4	1749167.07	5946982.97
SV5	1749167.16	5946983.36
SV6	1749181.14	5946990.32
SV7	1749182.01	5946990.71
SV8	1749181.60	5946990.18
SV9	1749200.91	5946932.84
SV10	1749200.34	5946932.56
SV11	1749205.99	5946919.15
SV12	1749206.34	5946918.98
SV13	1749235.62	5946854.78
SV14	1749234.86	5946854.31
SV15	1749242.55	5946841.91
SV16	1749243.01	5946841.72
SV17	1749270.39	5946820.96
SV18	1749270.83	5946821.01
SV19	1749270.89	5946820.55
SV20	1749287.63	5946802.50
SV21	1749287.53	5946801.84
SV22	1749287.91	5946802.15
SV23	1749303.07	5946799.43
SV24	1749314.84	5946838.03
SV25	1749302.28	5946845.18
SV26	1749302.17	5946845.69
SV27	1749301.80	5946845.07
SV28	1749291.16	5946844.05
SV29	1749291.02	5946844.65
SV30	1749250.71	5946937.17
SV31	1749251.25	5946937.39
SV32	1749250.75	5946937.57
SV33	1749244.97	5946950.85
SV34	1749218.68	5947010.90
SV35	1749218.80	5947011.31
SV36	1749440.65	5947080.3
SV37	1749452.58	5947087.4
SV38	1749452.66	5947087.72
SV39	1749453.02	5947087.07
SV40	1749510.87	5947220.94
SV41	1749510.71	5947221.85
SV42	1749511.28	5947221.81

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.

SEE SHEET 502

SEE SHEET 503

SEE SHEET 501



REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	06/07/16

- 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 FH
BLANK CAP	BC1
STAGE BOUNDARY	---



**MILLWATER
PRECINCT 2
STAGE 2C**

**WATERMAIN AS-BUILT
OVERALL LAYOUT
Sheet 1 of 4**

AUCKLAND COUNCIL


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

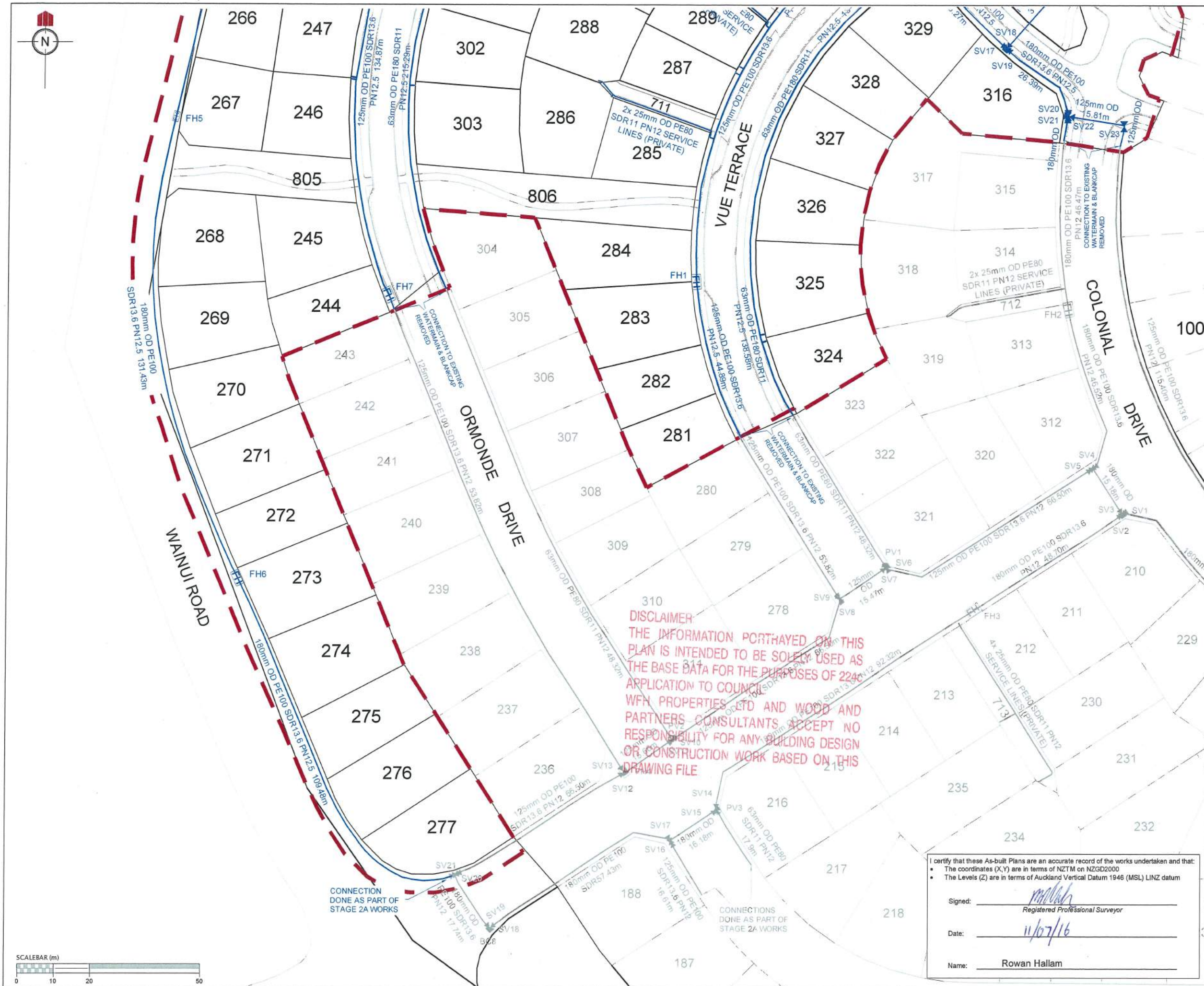
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Registered Professional Surveyor

Date: 11/7/16

Name: Rowan Hallam

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: 	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:2500 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-500	REV. 1



REVISION DETAILS		NAME	DATE
1. DRAWING ISSUED		AAC	06/07/16

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.	

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

CLIENT:

WFH PROPERTIES

WOODS Engineers, Surveyors, Planners.

MILLWATER PRECINCT 2 STAGE 2C

WATERMAIN AS-BUILT
Sheet 2 of 4

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: [Signature]	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-501	REV. 1

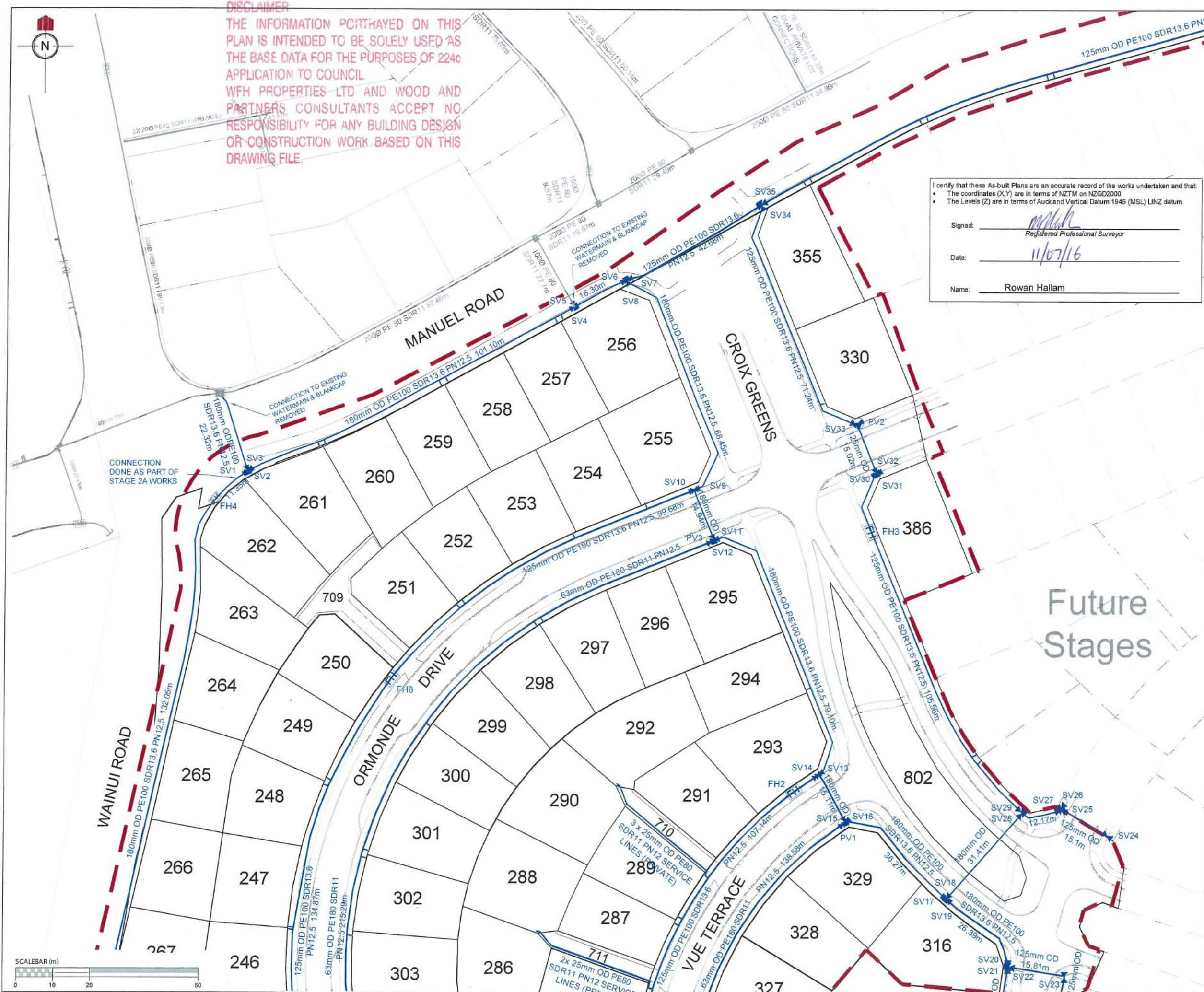
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 11/07/16

Name: Rowan Hallam



DISCLAIMER
THE INFORMATION PORTHAYED 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 ACCERT 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 1948 (MSL) LINZ datum

Signed: [Signature]
Registered Professional Surveyor

Date: 11/07/16

Name: Rowan Hallam

REVISION DETAILS		NAME	DATE
1.	DRAWING ISSUED	AAC	6/07/2016

- 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.

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

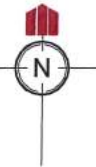


MILLWATER PRECINCT 2 STAGE 2C

WATERMAIN AS-BUILT
Sheet 3 of 4

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: [Signature]	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-502	REV. 1



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

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: 11/07/16

Name: Rowan Hallam

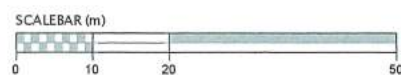
MANUEL ROAD

125mm OD PE100 SDR13.6 PN12.5 237.11m

125mm OD PE100 SDR13.6 PN12.5 151.57m

SV36
PV4
SV37
SV38
SV39

SV41
SV40
SV42



REVISION DETAILS	NAME	DATE
1. DRAWING ISSUED	AAC	6/07/2016

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 PRESSURE WATERMAIN	—
SLUICE VALVE	SV1
PEET VALVE	PV
FIRE HYDRANT	FH
BLANK CAP	BC1
STAGE BOUNDARY	- - -

CLIENT:



MILLWATER
PRECINCT 2
STAGE 2C

WATERMAIN AS-BUILT
Sheet 4 of 4

AUCKLAND COUNCIL

DESIGNED: TX	ASBUILT
CHECKED: AC	DRAWN: AAC
APPROVED: MCH	SURVEYED: RZ
JOB NUMBER: 33209	SCALE: 1:1000 @ A3
ISSUED: MAY 2016	
DWG. NO. 33209-02C-AB-503	REV. 1