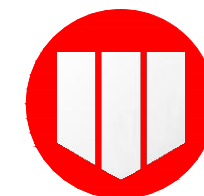




MILLWATER – PRECINCT 2 STAGE 4B AS-BUILT DRAWINGS

JUNE 2017



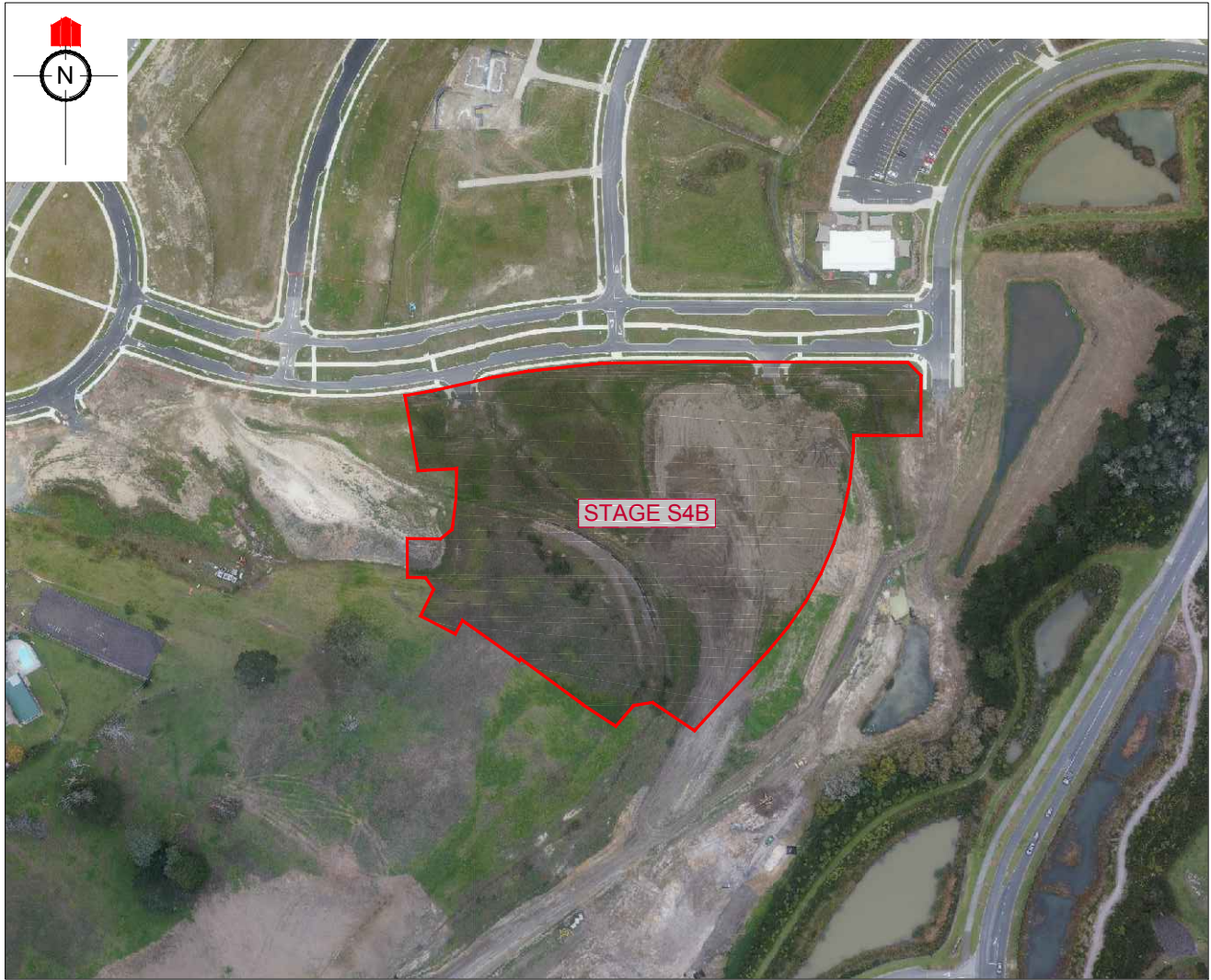
WOODS
Engineers. Surveyors. Planners.

MILLWATER – PRECINCT 2 STAGE 4B

AS-BUILT DRAWINGS

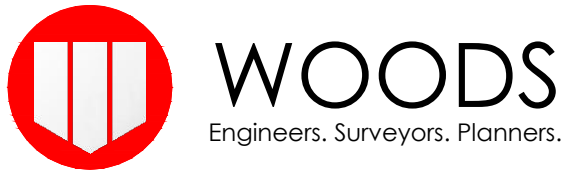
CONTENT INDEX AND LOCALITY PLAN

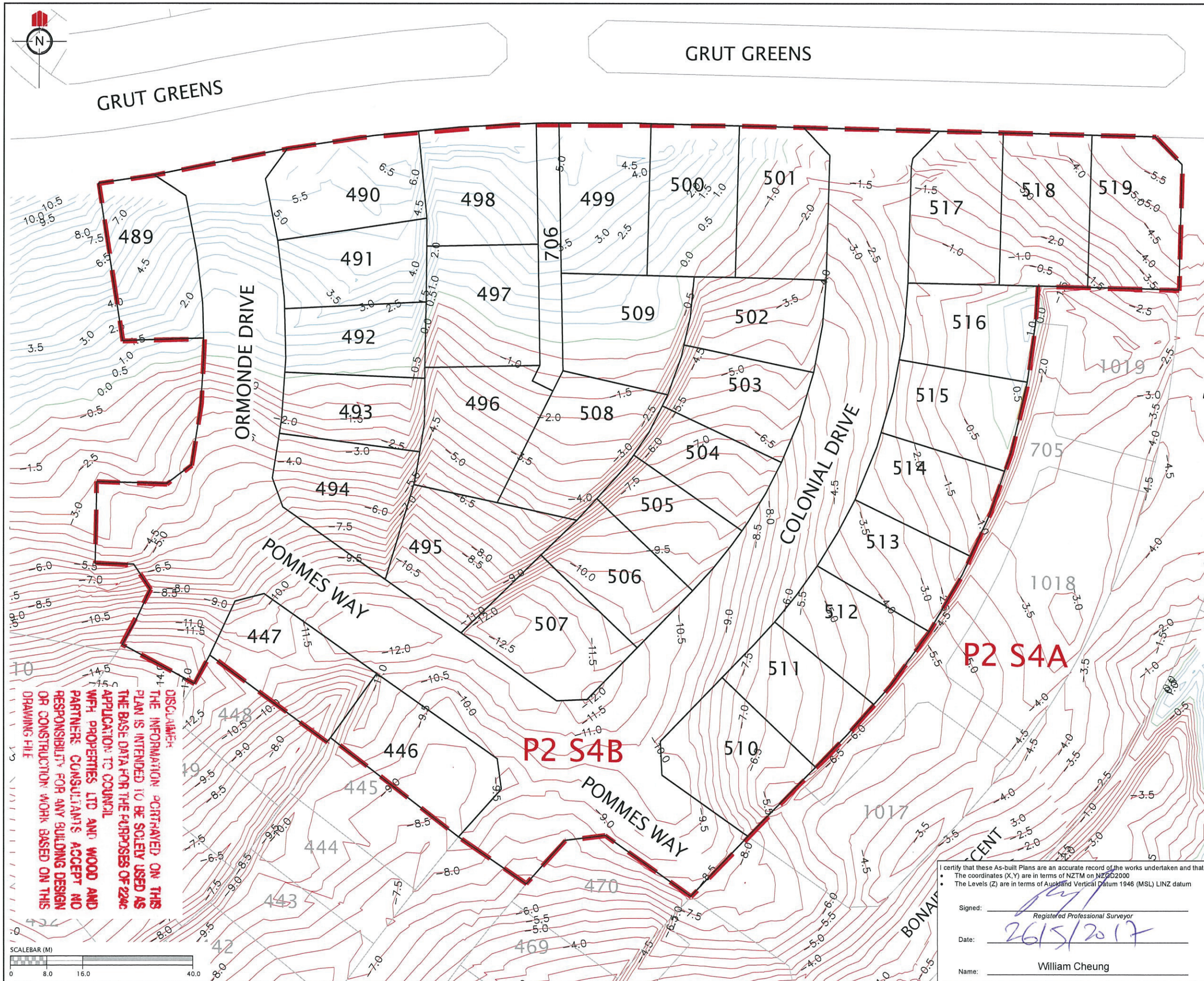
COVER PAGE	
000	Plans Index and Location Plan
MILLWATER - PRECINCT 2 STAGE 04B AS-BUILT DRAWINGS	
DWG NO	DESCRIPTION
100	Final Contour As-Built Plan
110	Cut/Fill Original Surface - Earthwork Surface As-Built Plan
111	Cut/Fill Earthworks Surface - Final Surface As-Built Plan
112	Cut/Fill Original Surface - Final Surface As-Built Plan
120	Cut/Fill - Shear Key, Undercut & Subsoil Drains As-Built Plan
150	Reinforced Grid Detail
200 - 203	Roading As-Built Plans
300 - 304	Stormwater As-Built Plan
400 - 403	Wastewater Sewer As-Built Plan
600 - 603	Water Reticulation As-Built Plan



LOCATION PLAN

NOT TO SCALE





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

WOODS Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4B

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

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: WC	SURVEYED: WOODS
JOB NUMBER: 33219	SCALE: 1:800 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33219-04B-110-AB	REV.

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

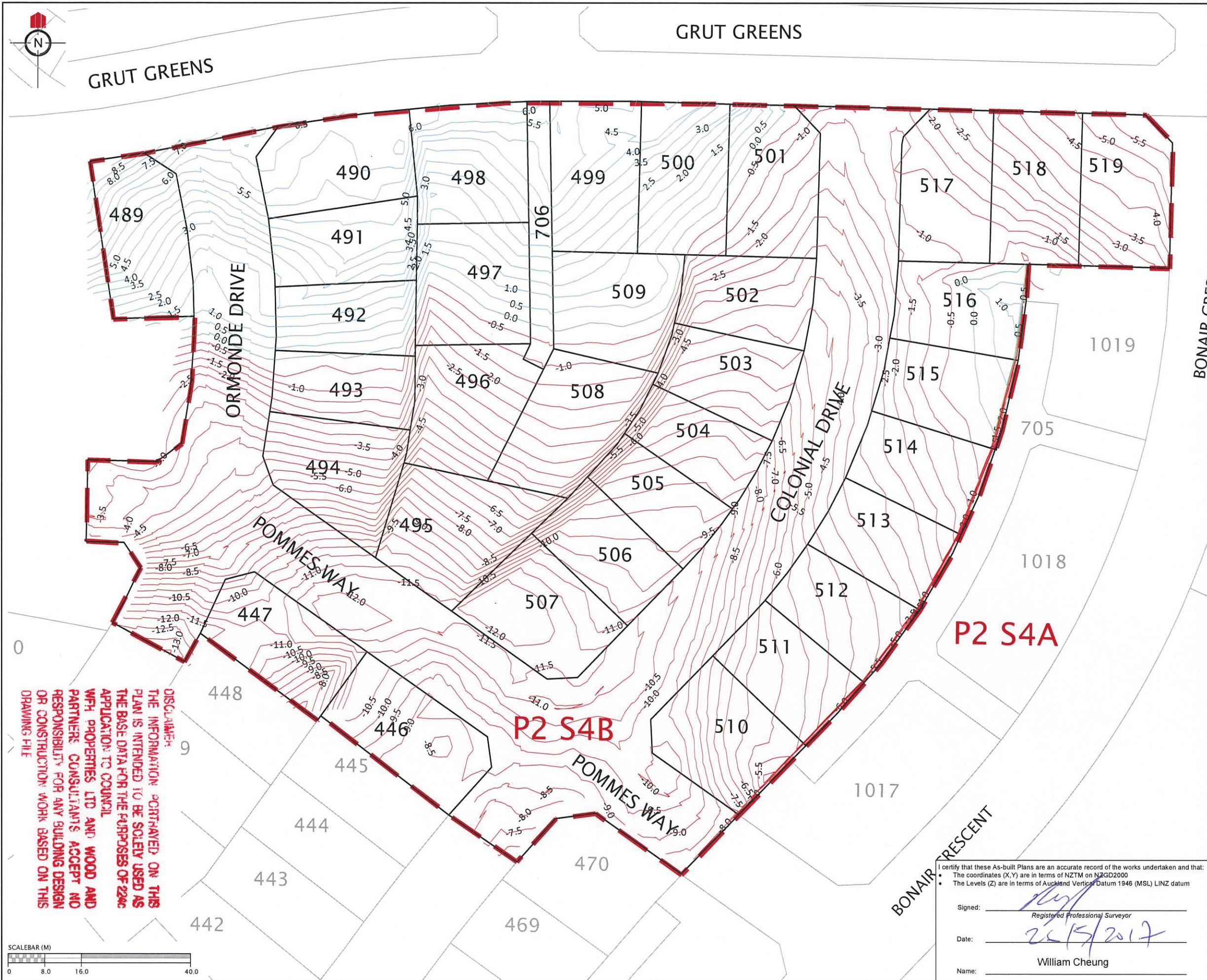
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: Registered Professional Surveyor

Date: 26/5/2017

Name: William Cheung





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

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 4B**

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

AUCKLAND COUNCIL

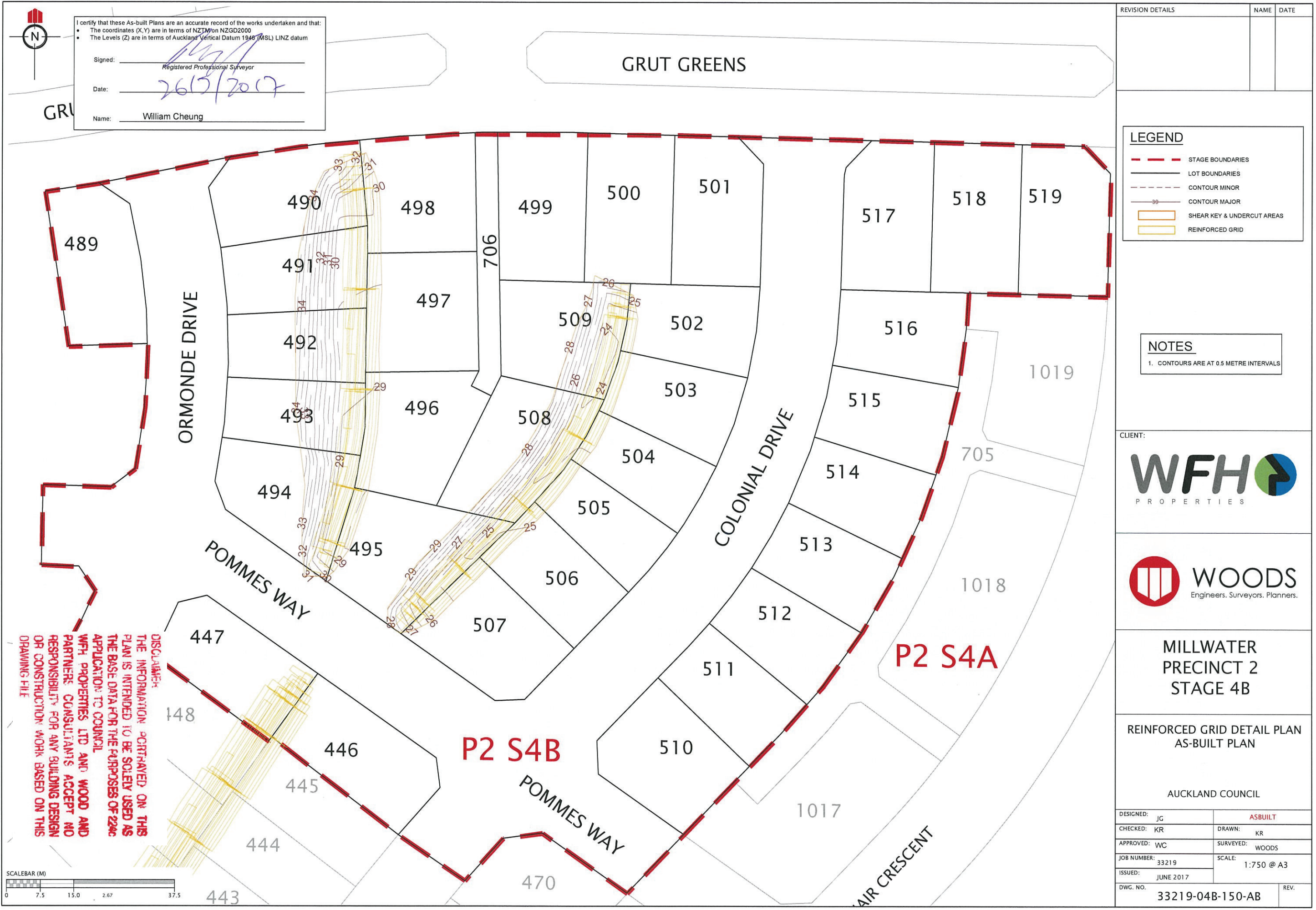
DESIGNED: JB	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: WC	SURVEYED: WOODS
JOB NUMBER: 33219	SCALE: 1:800 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33219-04B-112-AB	REV.

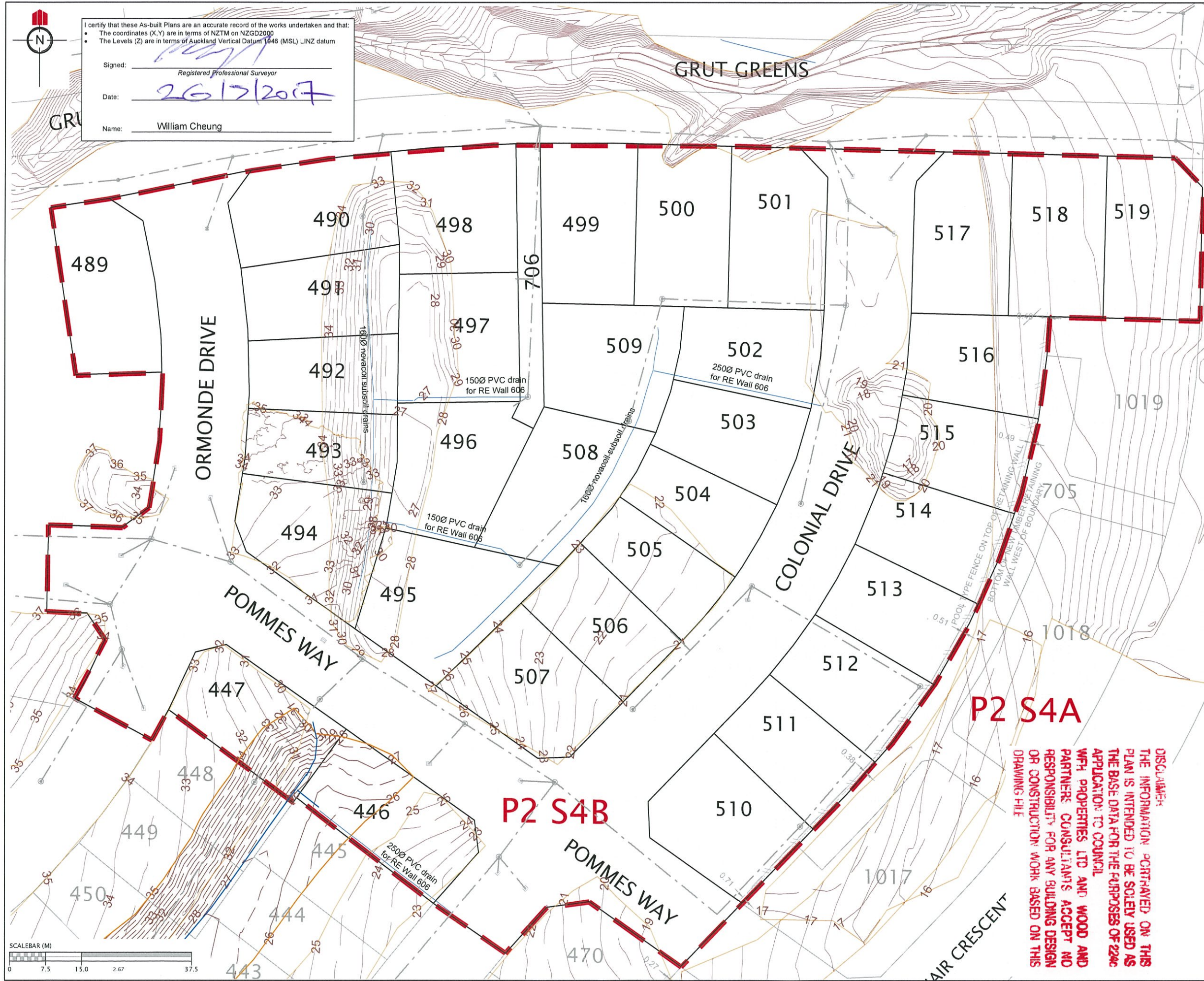
I certify that these As-built Plans are an accurate record of the works undertaken and that:
• The coordinates (X,Y) are in terms of NZTM on NZGD2000
• The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor

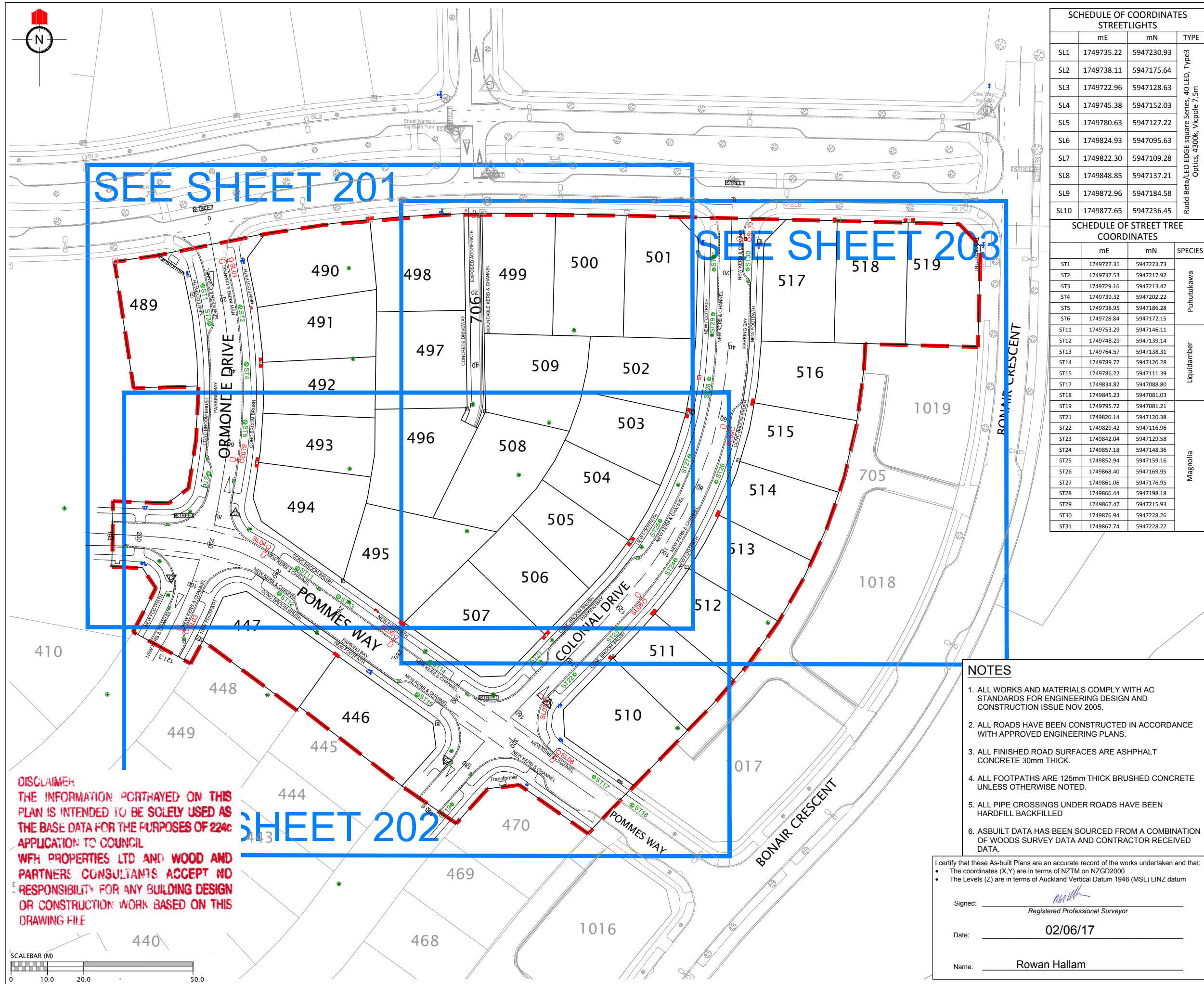
Date: 25/5/2017

Name: William Cheung





REVISION DETAILS		NAME	DATE
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			
NOTES			
1. CONTOURS ARE AT 0.5 METRE INTERVALS			
CLIENT:			
WFH PROPERTIES			
WOODS Engineers, Surveyors, Planners.			
MILLWATER PRECINCT 2 STAGE 4B			
SHEAR KEY, UNDERCUTS & SUBSOIL DRAINS AS-BUILT PLAN			
AUCKLAND COUNCIL			
DESIGNED: JB	ASBUILT		
CHECKED: KR	DRAWN: KR		
APPROVED: WC	SURVEYED: WOODS		
JOB NUMBER: 33219	SCALE: 1:750 @ A3		
ISSUED: JUNE 2017			
DWG. NO. 33219-04B-120-AB	REV.		



SCHEDULE OF COORDINATES STREETLIGHTS			
	mE	mN	TYPE
SL1	1749735.22	5947230.93	Rudd Beta/LED Edge Square Series, 40 LED, Type3 Optics, 4300k, Vicolpe 7.5m
SL2	1749738.11	5947175.64	
SL3	1749722.96	5947128.63	
SL4	1749745.38	5947152.03	
SL5	1749780.63	5947127.22	
SL6	1749824.93	5947095.63	
SL7	1749822.30	5947109.28	
SL8	1749848.85	5947137.21	
SL9	1749872.96	5947184.58	
SL10	1749877.65	5947236.45	
SCHEDULE OF STREET TREE COORDINATES			
	mE	mN	SPECIES
ST1	1749727.31	5947223.73	Puhutukawa
ST2	1749737.53	5947217.92	
ST3	1749729.16	5947213.42	
ST4	1749739.32	5947202.22	
ST5	1749738.95	5947186.28	
ST6	1749728.84	5947172.15	
ST11	1749753.29	5947146.11	Liquidamber
ST12	1749748.29	5947139.14	
ST13	1749764.57	5947138.31	
ST14	1749789.77	5947120.28	
ST15	1749786.22	5947111.39	
ST17	1749834.82	5947088.80	
ST18	1749845.23	5947081.03	Magnolia
ST19	1749795.72	5947081.21	
ST21	1749820.14	5947120.38	
ST22	1749829.42	5947116.96	
ST23	1749842.04	5947129.58	
ST24	1749857.18	5947148.36	
ST25	1749852.94	5947159.16	
ST26	1749868.40	5947169.95	
ST27	1749861.06	5947176.95	
ST28	1749866.44	5947198.18	
ST29	1749867.47	5947215.93	
ST30	1749876.94	5947228.26	
ST31	1749867.74	5947228.22	

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

GAS METER

TELECOMMUNICATIONS MANHOLE

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4B

ROADING AS-BUILT
PAGE 1 OF 4

AUCKLAND COUNCIL

DESIGNED: JG

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33219

ISSUED: JUNE 2017

DWG. NO. 33219-04B-200-AB

ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:1000 @ A3

REV.

- 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:

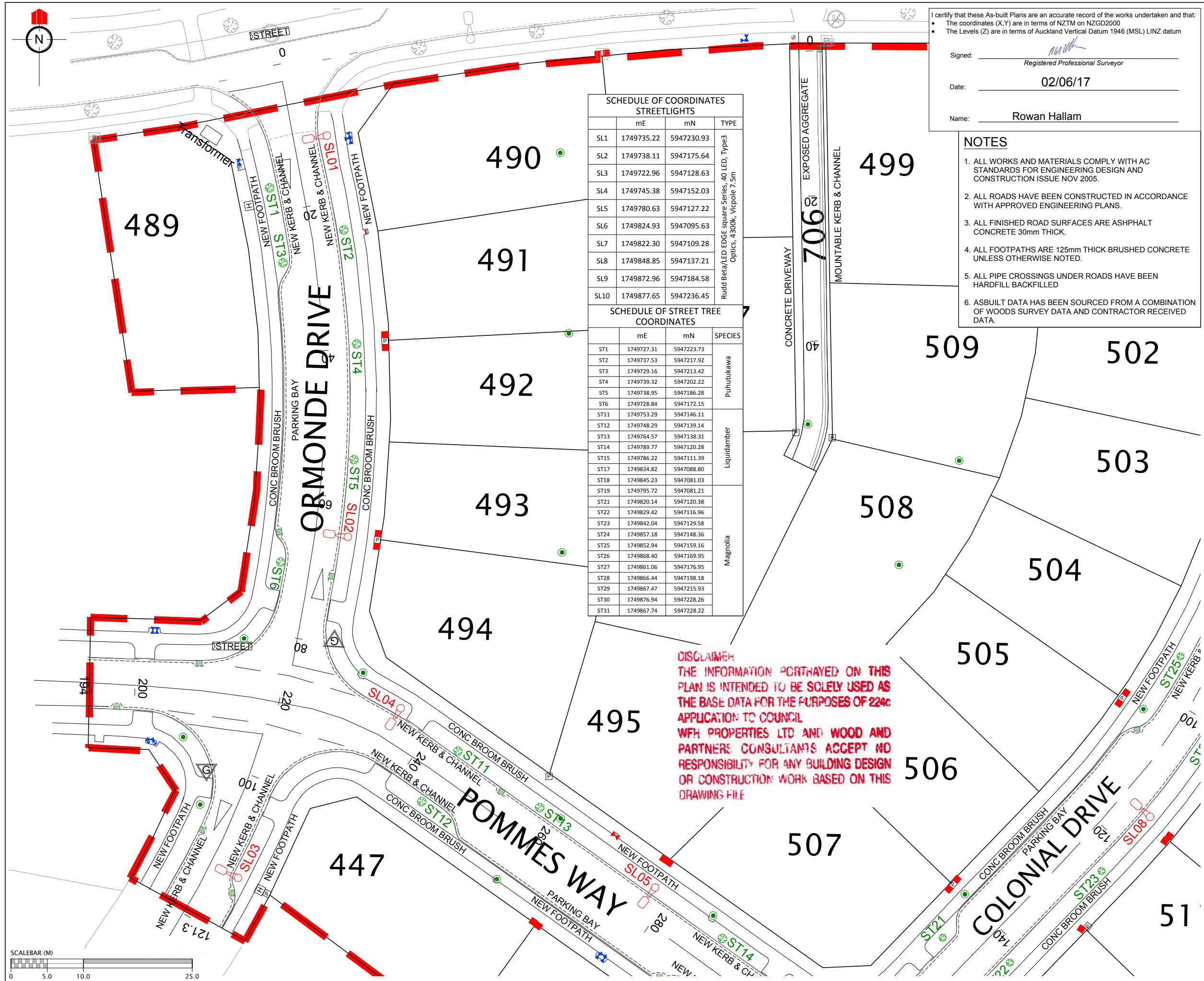
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 02/06/17

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



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Signed: _____
Registered Professional Surveyor

Date: 02/06/17

Name: Rowan Hallam

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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

GAS METER

TELECOMMUNICATIONS MANHOLE

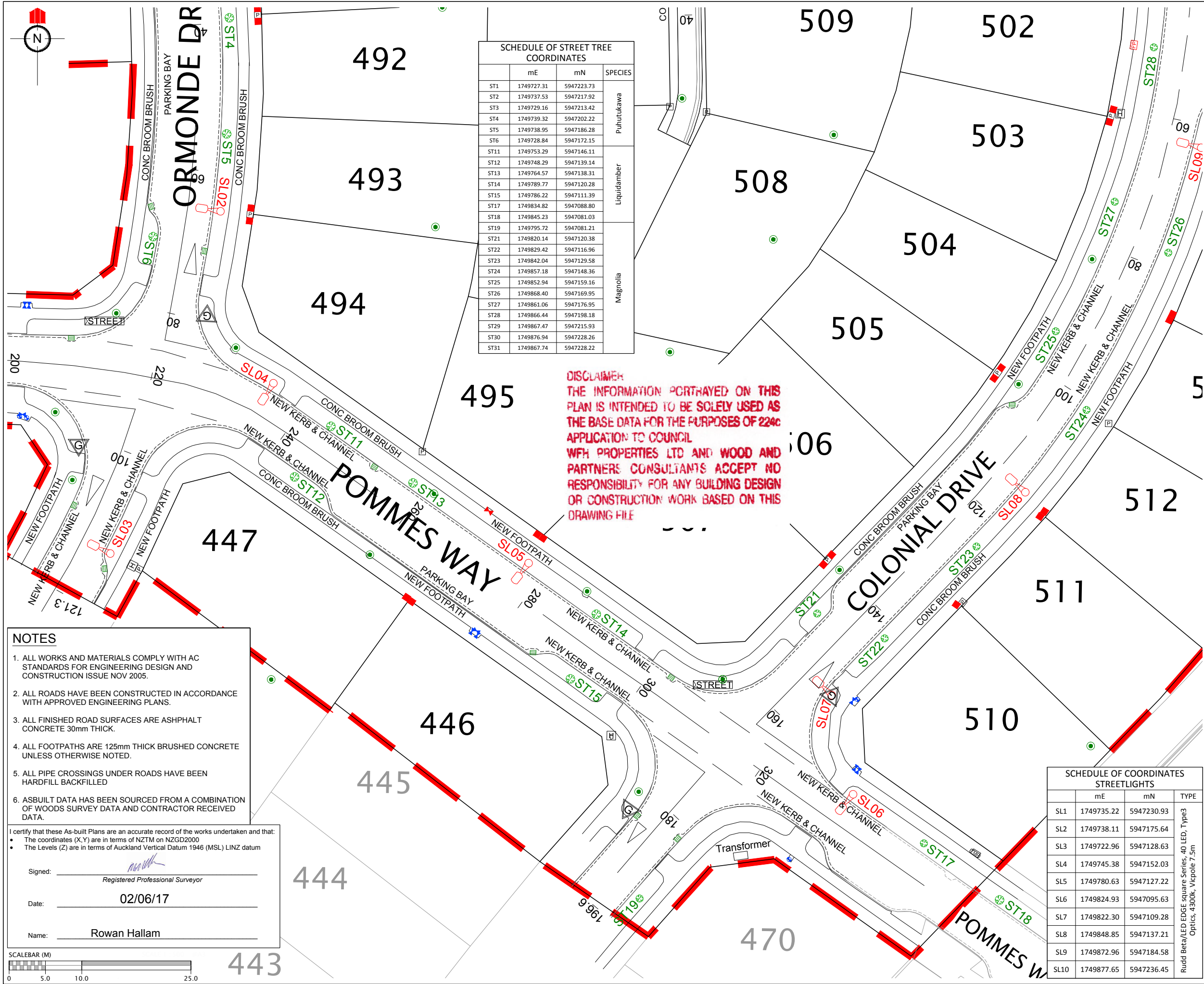
CLIENT:

WFH PROPERTIES

WOODS
Engineers. Surveyors. Planners.

MILLWATER
PRECINCT 2
STAGE 4B

ROADING AS-BUILT PAGE 2 OF 4	
AUCKLAND COUNCIL	
DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33219	SCALE: 1:500 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33219-04B-201-AB	REV.



SCHEDULE OF STREET TREE COORDINATES			
	mE	mN	SPECIES
ST1	1749727.31	5947223.73	Puhutukawa
ST2	1749737.53	5947217.92	
ST3	1749729.16	5947213.42	
ST4	1749739.32	5947202.22	
ST5	1749738.95	5947186.28	
ST6	1749728.84	5947172.15	Liquidamber
ST11	1749753.29	5947146.11	
ST12	1749748.29	5947139.14	
ST13	1749764.57	5947138.31	
ST14	1749789.77	5947120.28	
ST15	1749786.22	5947111.39	Magnolia
ST17	1749834.82	5947088.80	
ST18	1749845.23	5947081.03	
ST19	1749795.72	5947081.21	
ST21	1749820.14	5947120.38	
ST22	1749829.42	5947116.96	
ST23	1749842.04	5947129.58	
ST24	1749857.18	5947148.36	
ST25	1749852.94	5947159.16	
ST26	1749868.40	5947169.95	
ST27	1749861.06	5947176.95	
ST28	1749866.44	5947198.18	
ST29	1749867.47	5947215.93	
ST30	1749876.94	5947228.26	
ST31	1749867.74	5947228.22	

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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

NOTES

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- 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.

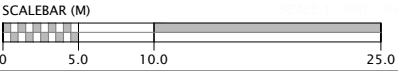
I certify that these As-built Plans are an accurate record of the works undertaken and that:

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

Signed: _____
Registered Professional Surveyor

Date: 02/06/17

Name: Rowan Hallam



SCHEDULE OF COORDINATES STREETLIGHTS			
	mE	mN	TYPE
SL1	1749735.22	5947230.93	Rudd Beta/LED EDGE Square Series, 40 LED, Type3 Optics, 4300k, V/cpole 7.5m
SL2	1749738.11	5947175.64	
SL3	1749722.96	5947128.63	
SL4	1749745.38	5947152.03	
SL5	1749780.63	5947127.22	
SL6	1749824.93	5947095.63	
SL7	1749822.30	5947109.28	
SL8	1749848.85	5947137.21	
SL9	1749872.96	5947184.58	
SL10	1749877.65	5947236.45	

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:

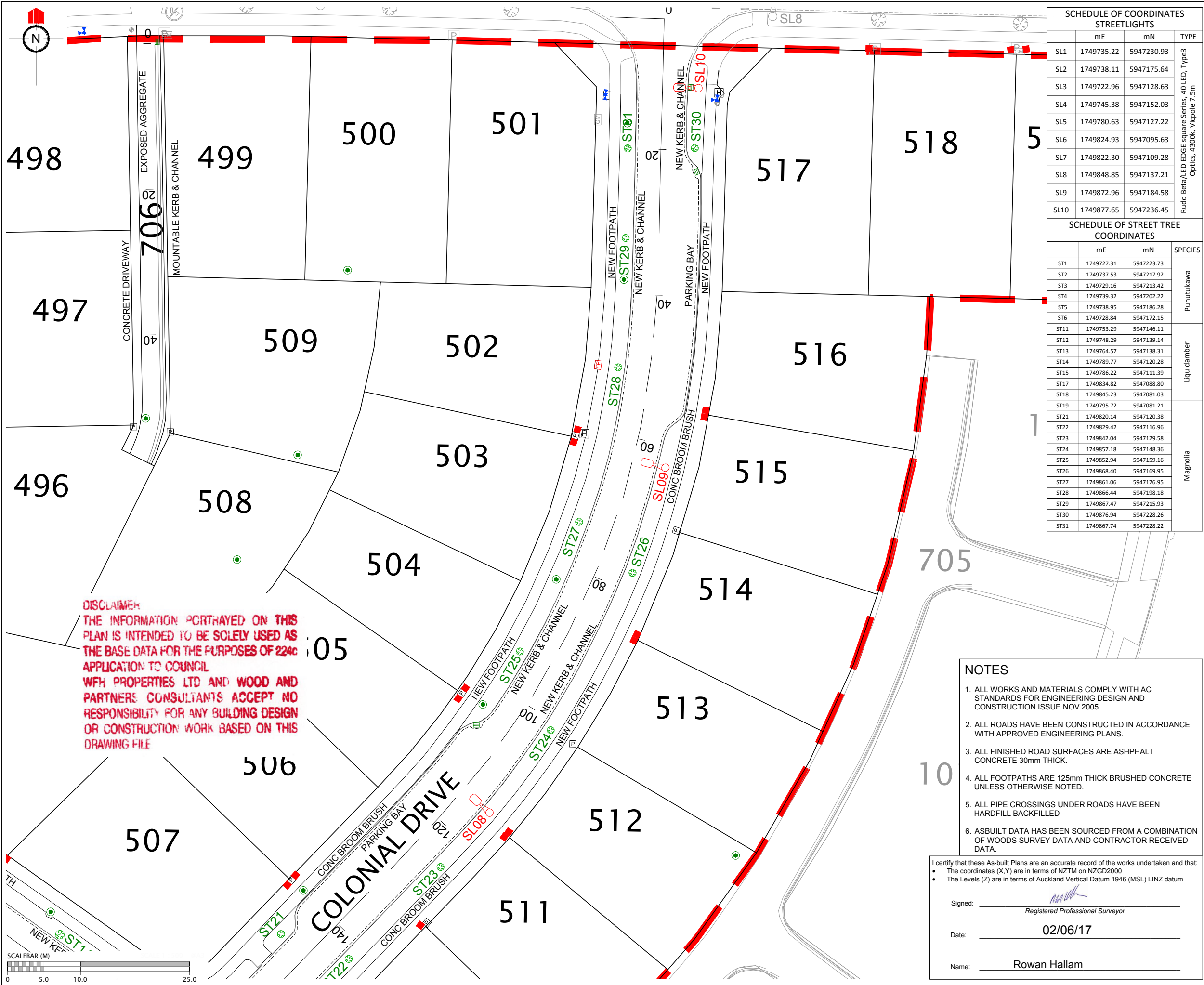


MILLWATER PRECINCT 2
STAGE 4B

ROADING AS-BUILT
PAGE 3 OF 4

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: RH	SURVEYED: WOODS
JOB NUMBER: 33219	SCALE: 1:500 @ A3
ISSUED: JUNE 2017	
DWG. NO. 33219-04B-202-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

GAS METER

TELECOMMUNICATIONS MANHOLE

SCHEDULE OF COORDINATES STREETLIGHTS

	mE	mN	TYPE
SL1	1749735.22	5947230.93	
SL2	1749738.11	5947175.64	
SL3	1749722.96	5947128.63	
SL4	1749745.38	5947152.03	
SL5	1749780.63	5947127.22	
SL6	1749824.93	5947095.63	
SL7	1749822.30	5947109.28	
SL8	1749848.85	5947137.21	
SL9	1749872.96	5947184.58	
SL10	1749877.65	5947236.45	

SCHEDULE OF STREET TREE COORDINATES

	mE	mN	SPECIES
ST1	1749727.31	5947223.73	
ST2	1749737.53	5947217.92	
ST3	1749729.16	5947213.42	
ST4	1749739.32	5947202.22	
ST5	1749738.95	5947186.28	
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ST11	1749753.29	5947146.11	
ST12	1749748.29	5947139.14	
ST13	1749764.57	5947138.31	
ST14	1749789.77	5947120.28	
ST15	1749786.22	5947111.39	
ST17	1749834.82	5947088.80	
ST18	1749845.23	5947081.03	
ST19	1749795.72	5947081.21	
ST21	1749820.14	5947120.38	
ST22	1749829.42	5947116.96	
ST23	1749842.04	5947129.58	
ST24	1749857.18	5947148.36	
ST25	1749852.94	5947159.16	
ST26	1749868.40	5947169.95	
ST27	1749861.06	5947176.95	
ST28	1749866.44	5947198.18	
ST29	1749867.47	5947215.93	
ST30	1749876.94	5947228.26	
ST31	1749867.74	5947228.22	

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.

MILLWATER PRECINCT 2 STAGE 4B

ROADING AS-BUILT PAGE 4 OF 4

AUCKLAND COUNCIL

DESIGNED: JG

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33219

ISSUED: JUNE 2017

DWG. NO. 33219-04B-203-AB

ASBUILT

DRAWN: KR

SURVEYED: WOODS

SCALE: 1:500 @ A3

REV.

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:

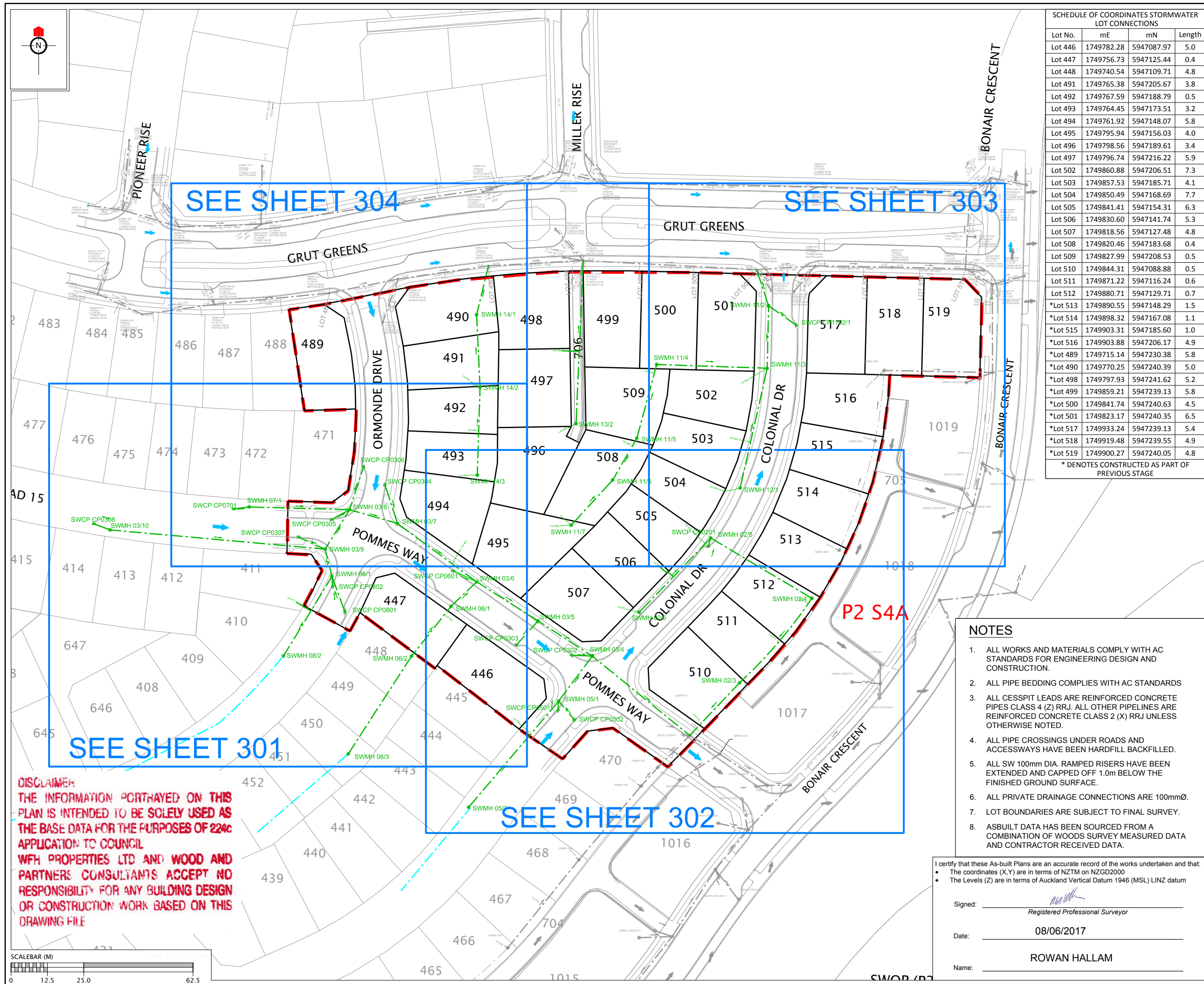
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:

Registered Professional Surveyor

Date: 02/06/17

Name: Rowan Hallam



SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot No.	mE	mN	Length
Lot 446	1749782.28	5947087.97	5.0
Lot 447	1749756.73	5947125.44	0.4
Lot 448	1749740.54	5947109.71	4.8
Lot 491	1749765.38	5947205.67	3.8
Lot 492	1749767.59	5947188.79	0.5
Lot 493	1749764.45	5947173.51	3.2
Lot 494	1749761.92	5947148.07	5.8
Lot 495	1749795.94	5947156.03	4.0
Lot 496	1749798.56	5947189.61	3.4
Lot 497	1749796.74	5947216.22	5.9
Lot 502	1749860.88	5947206.51	7.3
Lot 503	1749857.53	5947185.71	4.1
Lot 504	1749850.49	5947168.69	7.7
Lot 505	1749841.41	5947154.31	6.3
Lot 506	1749830.60	5947141.74	5.3
Lot 507	1749818.56	5947127.48	4.8
Lot 508	1749820.46	5947183.68	0.4
Lot 509	1749827.99	5947208.53	0.5
Lot 510	1749844.31	5947088.88	0.5
Lot 511	1749871.22	5947116.24	0.6
Lot 512	1749880.71	5947129.71	0.7
*Lot 513	1749890.55	5947148.29	1.5
*Lot 514	1749898.32	5947167.08	1.1
*Lot 515	1749903.31	5947185.60	1.0
*Lot 516	1749903.88	5947206.17	4.9
*Lot 489	1749715.14	5947230.38	5.8
*Lot 490	1749770.25	5947240.39	5.0
*Lot 498	1749797.93	5947241.62	5.2
*Lot 499	1749859.21	5947239.13	5.8
*Lot 500	1749841.74	5947240.63	4.5
*Lot 501	1749823.17	5947240.35	6.5
*Lot 517	1749933.24	5947239.13	5.4
*Lot 518	1749919.48	5947239.55	4.9
*Lot 519	1749900.27	5947240.05	4.8
* DENOTES CONSTRUCTED AS PART OF PREVIOUS STAGE			

REVISION DETAILS

NAME

DATE

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

STORMWATER DOUBLE CESSPIT

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

FUTURE STORMWATER

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.
Urban Designers. Architects.

MILLWATER
PRECINT 2
STAGE 4B

STORMWATER AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 5

AUCKLAND COUNCIL

DESIGNED: JG

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33219

ISSUED: JUNE 2017

DWG. NO. 33219-4B-300-AB

AS BUILT

DRAWN: KH

SURVEYED: WOODS / DINES

SCALE: 1:1250 @ A3

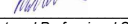
REV.

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.

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

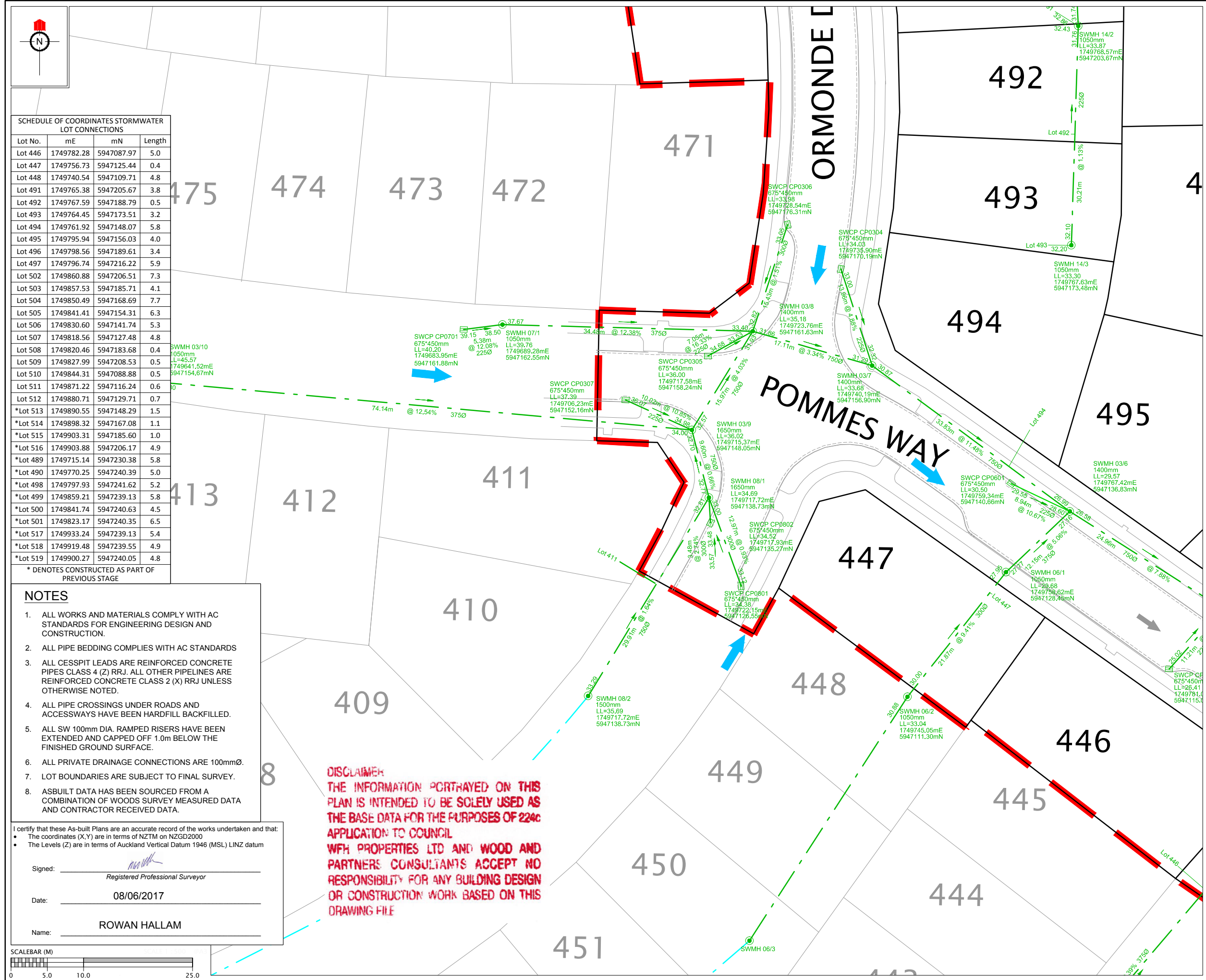
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Registered Professional Surveyor

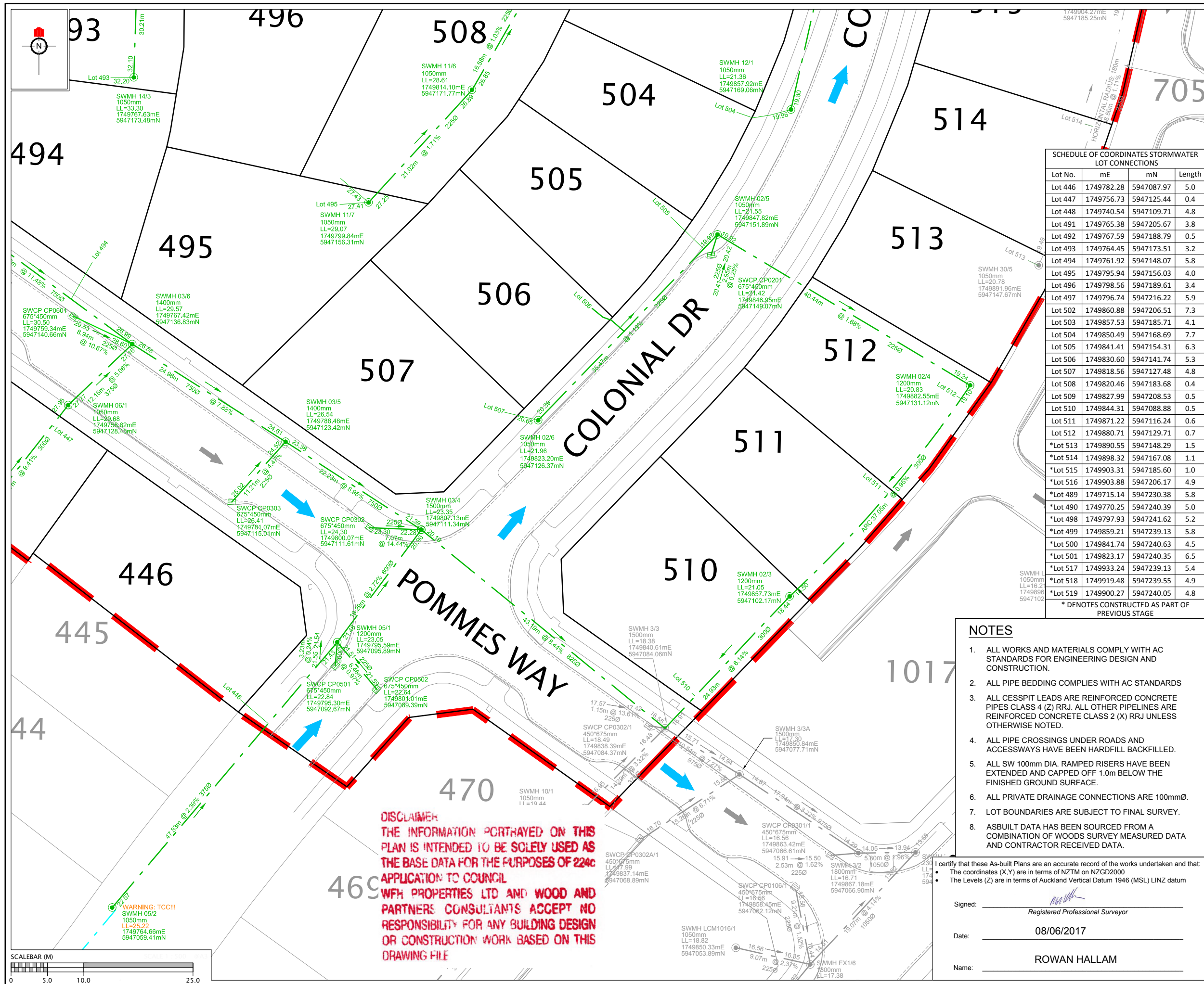
Date: 08/06/2017

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
LEGEND			
STORMWATER MANHOLE			
STORMWATER CESSPIT			
STORMWATER DOUBLE CESSPIT			
OVERLAND FLOW			
NEW STORMWATER			
EXISTING STORMWATER			
STAGE BOUNDARY			
FUTURE STORMWATER			
CLIENT:			
MILLWATER PRECINT 2 STAGE 4B			
STORMWATER AS-BUILT SHEET 2 OF 5			
AUCKLAND COUNCIL			
DESIGNED: JG	AS BUILT		
CHECKED: KR	DRAWN: KH		
APPROVED: RH	SURVEYED: WOODS / DINES		
JOB NUMBER: 33219	SCALE: 1:500 @ A3		
ISSUED: JUNE 2017			
DWG. NO. 33219-4B-301-AB	REV.		



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

SCHEDULE OF COORDINATES STORMWATER LOT CONNECTIONS			
Lot No.	mE	mN	Length
Lot 446	1749782.28	5947087.97	5.0
Lot 447	1749756.73	5947125.44	0.4
Lot 448	1749740.54	5947109.71	4.8
Lot 491	1749765.38	5947205.67	3.8
Lot 492	1749767.59	5947188.79	0.5
Lot 493	1749764.45	5947173.51	3.2
Lot 494	1749761.92	5947148.07	5.8
Lot 495	1749795.94	5947156.03	4.0
Lot 496	1749798.56	5947189.61	3.4
Lot 497	1749796.74	5947216.22	5.9
Lot 502	1749860.88	5947206.51	7.3
Lot 503	1749857.53	5947185.71	4.1
Lot 504	1749850.49	5947168.69	7.7
Lot 505	1749841.41	5947154.31	6.3
Lot 506	1749830.60	5947141.74	5.3
Lot 507	1749818.56	5947127.48	4.8
Lot 508	1749820.46	5947183.68	0.4
Lot 509	1749827.99	5947208.53	0.5
Lot 510	1749844.31	5947088.88	0.5
Lot 511	1749871.22	5947116.24	0.6
Lot 512	1749880.71	5947129.71	0.7
*Lot 513	1749890.55	5947148.29	1.5
*Lot 514	1749898.32	5947167.08	1.1
*Lot 515	1749903.31	5947185.60	1.0
*Lot 516	1749903.88	5947206.17	4.9
*Lot 489	1749715.14	5947230.38	5.8
*Lot 490	1749770.25	5947240.39	5.0
*Lot 498	1749797.93	5947241.62	5.2
*Lot 499	1749859.21	5947239.13	5.8
*Lot 500	1749841.74	5947240.63	4.5
*Lot 501	1749823.17	5947240.35	6.5
*Lot 517	1749933.24	5947239.13	5.4
*Lot 518	1749919.48	5947239.55	4.9
*Lot 519	1749900.27	5947240.05	4.8
* DENOTES CONSTRUCTED AS PART OF PREVIOUS STAGE			

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:
• 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: 08/06/2017
Name: ROWAN HALLAM

REVISION DETAILS

NAME

DATE

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

STORMWATER DOUBLE CESSPIT

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

FUTURE STORMWATER

CLIENT:

WFH PROPERTIES

WOODS

Engineers. Surveyors. Planners.
Urban Designers. Architects.

MILLWATER
PRECINT 2
STAGE 4B

STORMWATER AS-BUILT
SHEET 3 OF 5

AUCKLAND COUNCIL

DESIGNED: JG

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33219

ISSUED: JUNE 2017

DWG. NO. 33219-4B-302-AB

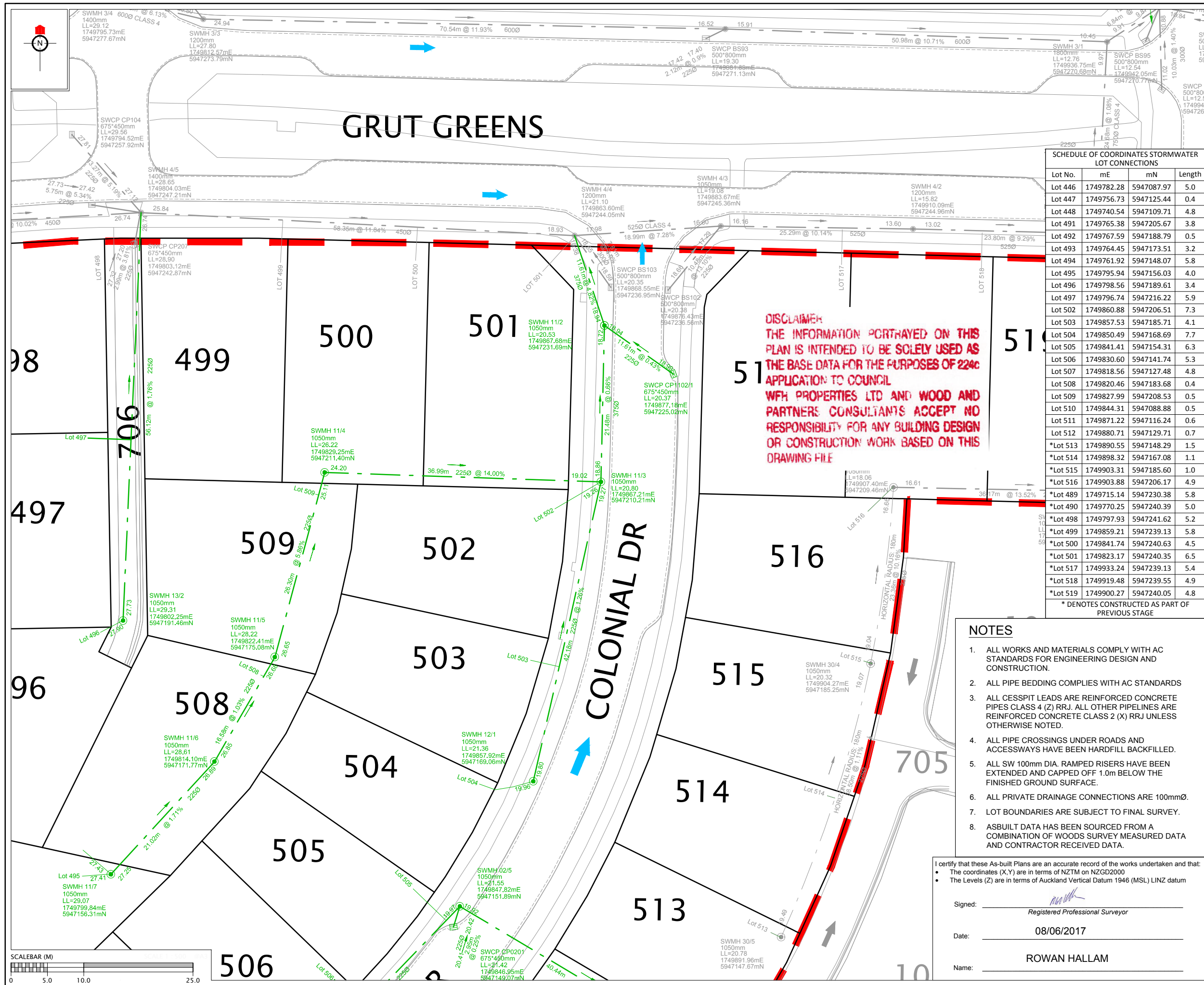
AS BUILT

DRAWN: KH

SURVEYED: WOODS / DINES

SCALE: 1:500 @ A3

REV.



REVISION DETAILS

NAME

DATE

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

STORMWATER DOUBLE CESSPIT

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

STAGE BOUNDARY

FUTURE STORMWATER

CLIENT:

WFH

PROPERTIES

WOODS

Engineers. Surveyors. Planners.
Urban Designers. Architects.

MILLWATER
PRECINT 2
STAGE 4B

STORMWATER AS-BUILT
SHEET 4 OF 5

AUCKLAND COUNCIL

DESIGNED: JG

CHECKED: KR

APPROVED: RH

JOB NUMBER: 33219

ISSUED: JUNE 2017

DWG. NO. 33219-4B-303-AB

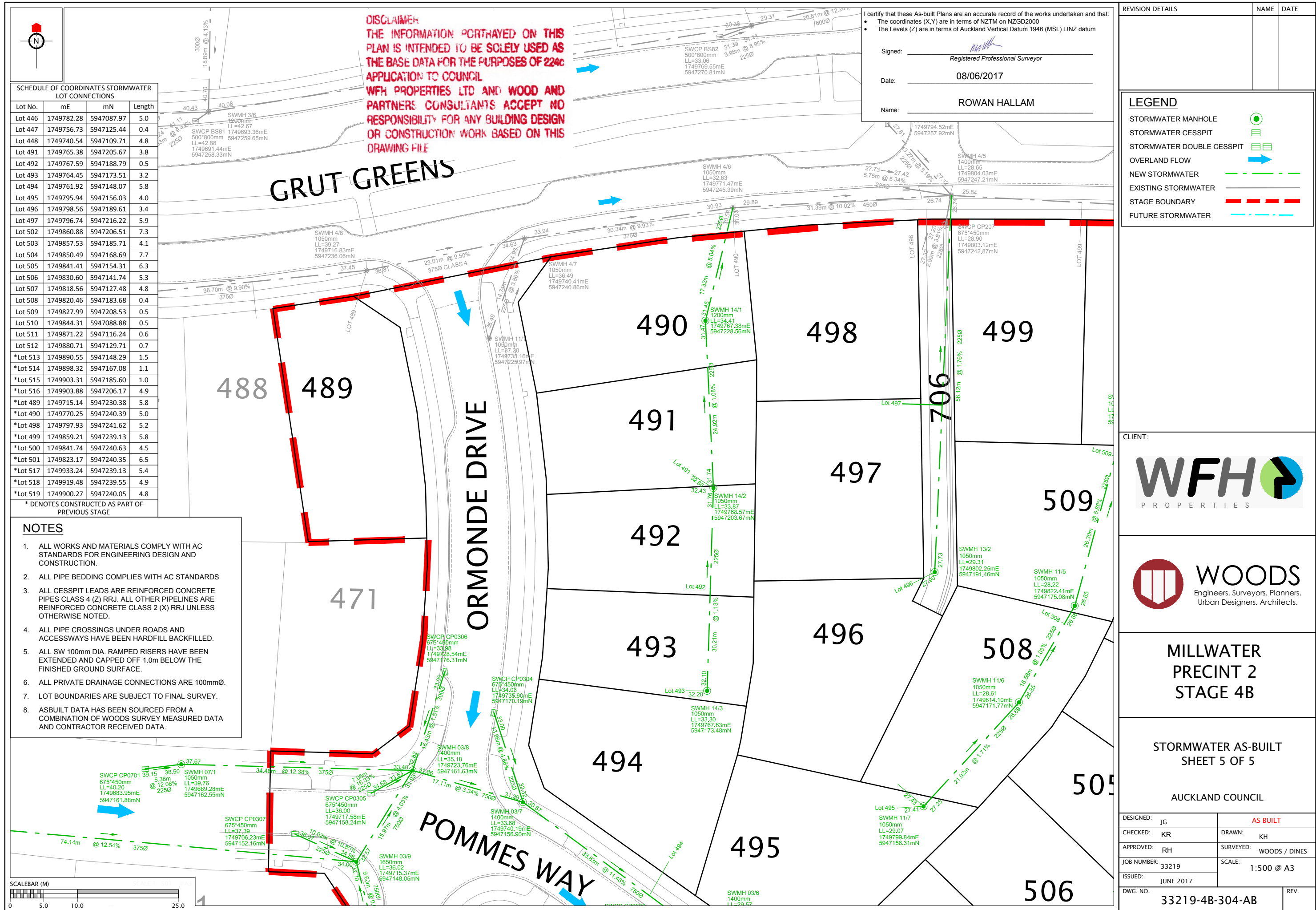
AS BUILT

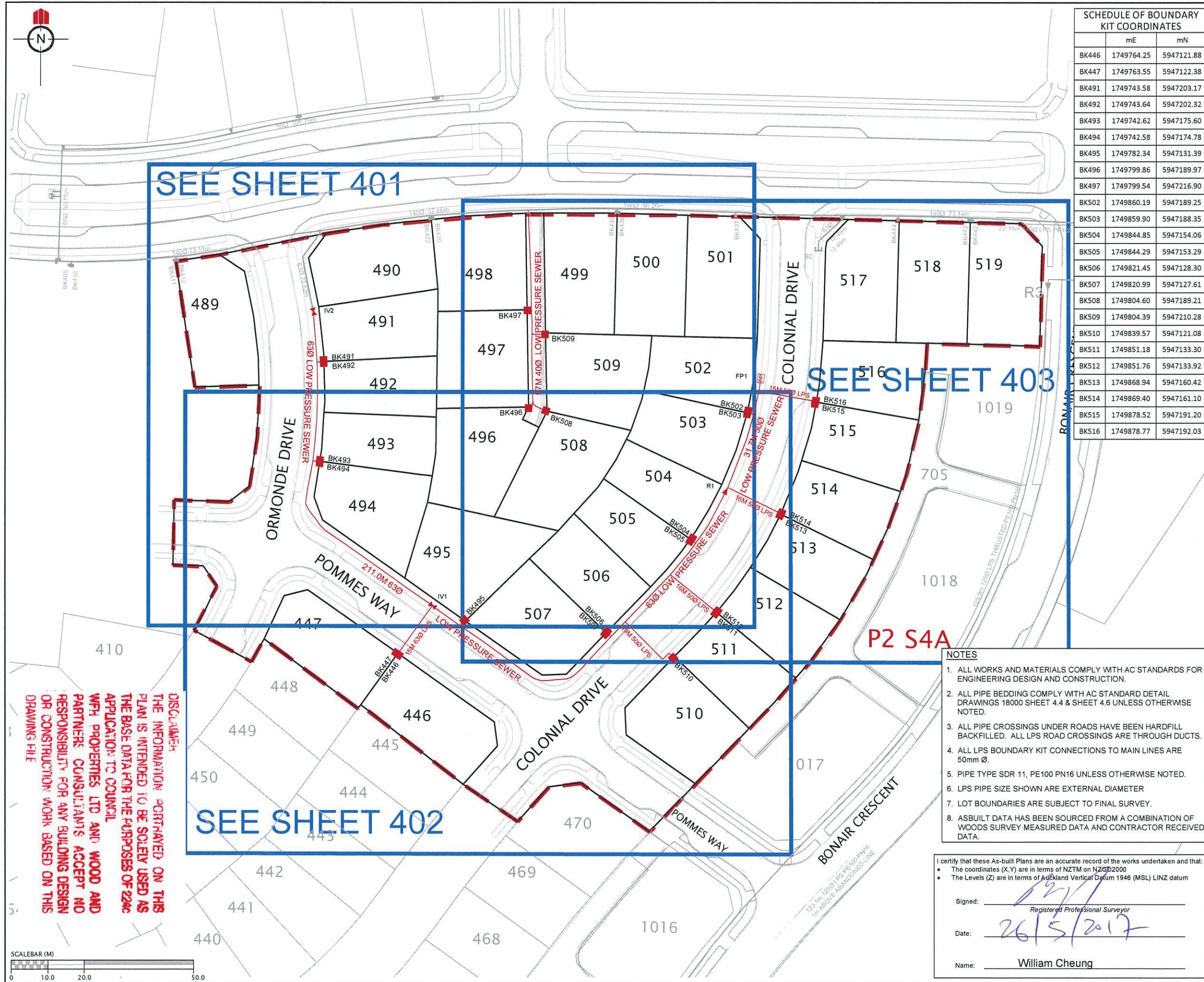
DRAWN: KH

SURVEYED: WOODS / DINES

SCALE: 1:500 @ A3

REV.





SCHEDULE OF BOUNDARY KIT COORDINATES		
	mE	mN
BK446	1749764.25	5947121.88
BK447	1749763.55	5947122.38
BK491	1749743.58	5947203.17
BK492	1749743.64	5947202.32
BK493	1749742.62	5947175.60
BK494	1749742.58	5947174.78
BK495	1749782.34	5947131.39
BK496	1749799.86	5947189.97
BK497	1749799.54	5947216.90
BK502	1749860.19	5947189.25
BK503	1749859.90	5947188.35
BK504	1749844.85	5947154.06
BK505	1749844.29	5947153.29
BK506	1749821.45	5947128.30
BK507	1749820.99	5947127.61
BK508	1749804.60	5947189.21
BK509	1749804.39	5947210.28
BK510	1749839.57	5947121.08
BK511	1749851.18	5947133.30
BK512	1749851.76	5947133.92
BK513	1749868.94	5947160.42
BK514	1749869.40	5947161.10
BK515	1749878.52	5947191.20
BK516	1749878.77	5947192.03

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	1749854.50	5947167.85
ISOLATION VALVE		
IV1	1749773.58	5947135.45
IV2	1749740.8	5947216.5

CLIENT:

WFH

PROPERTIES

WOODS

Engineers, Surveyors, Planners.

MILLWATER
PRECINCT 2
STAGE 4B

WASTEWATER ASBUILT PLAN
PAGE 1 OF 4

AUCKLAND COUNCIL

DESIGNED: JG

CHECKED: KR

APPROVED: WC

JOB NUMBER: 33219

ISSUED: JUNE 2017

DWG. NO. 33219-04B-400-AB

ASBUILT

DRAWN: KH

SURVEYED: WOODS

SCALE: 1:1000 @ A3

REV.

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.

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

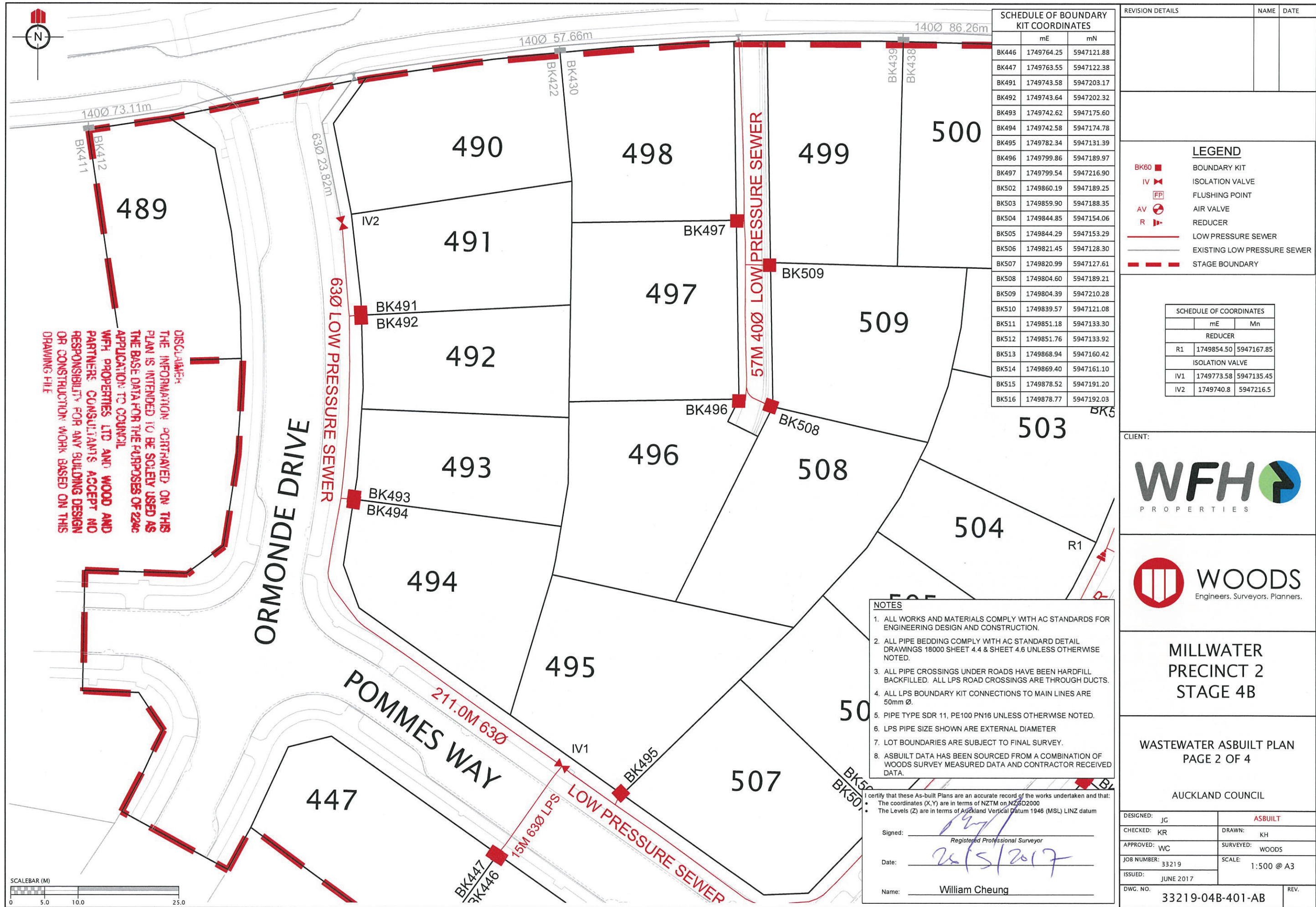
Signed: [Signature]

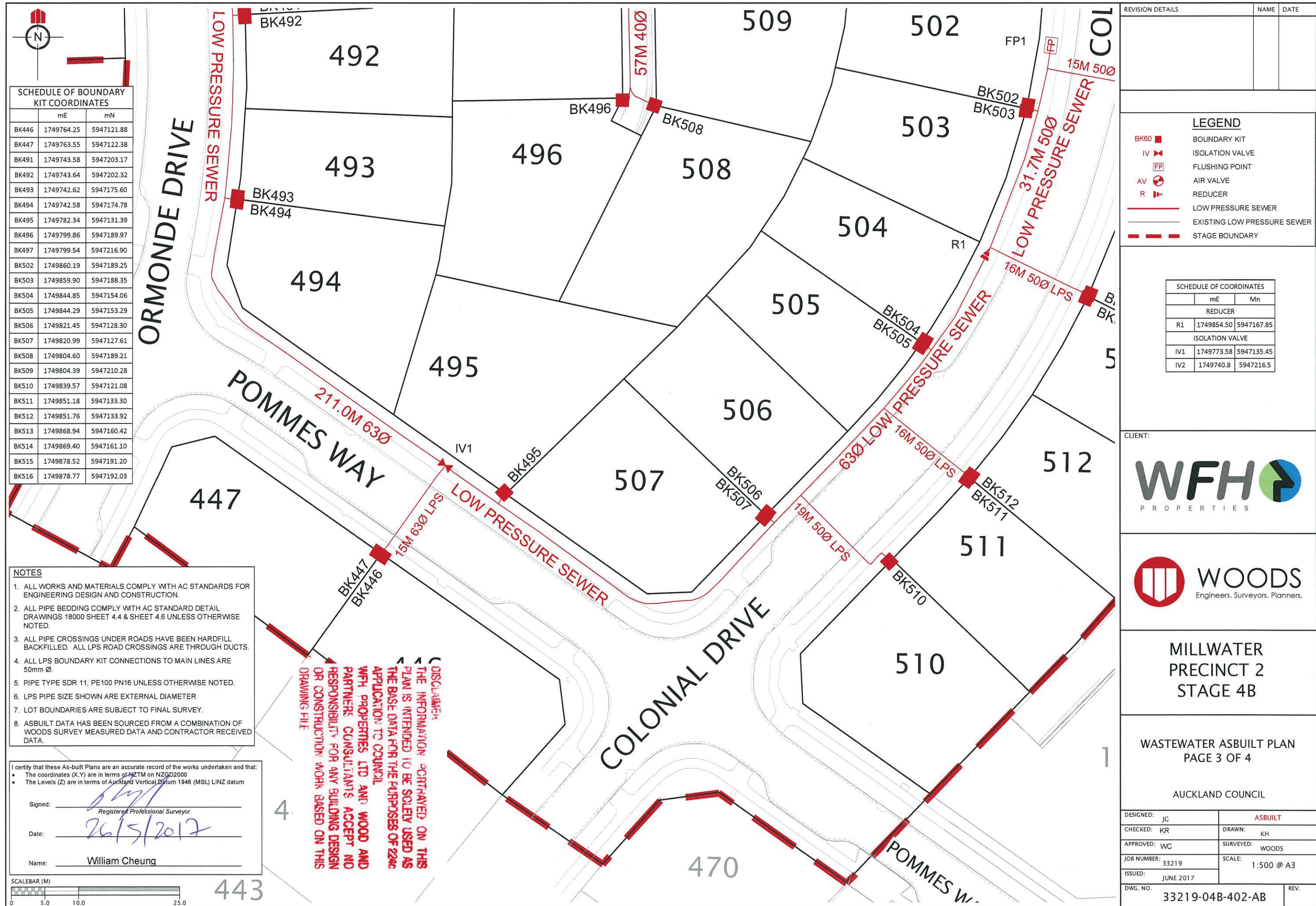
Registered Professional Surveyor

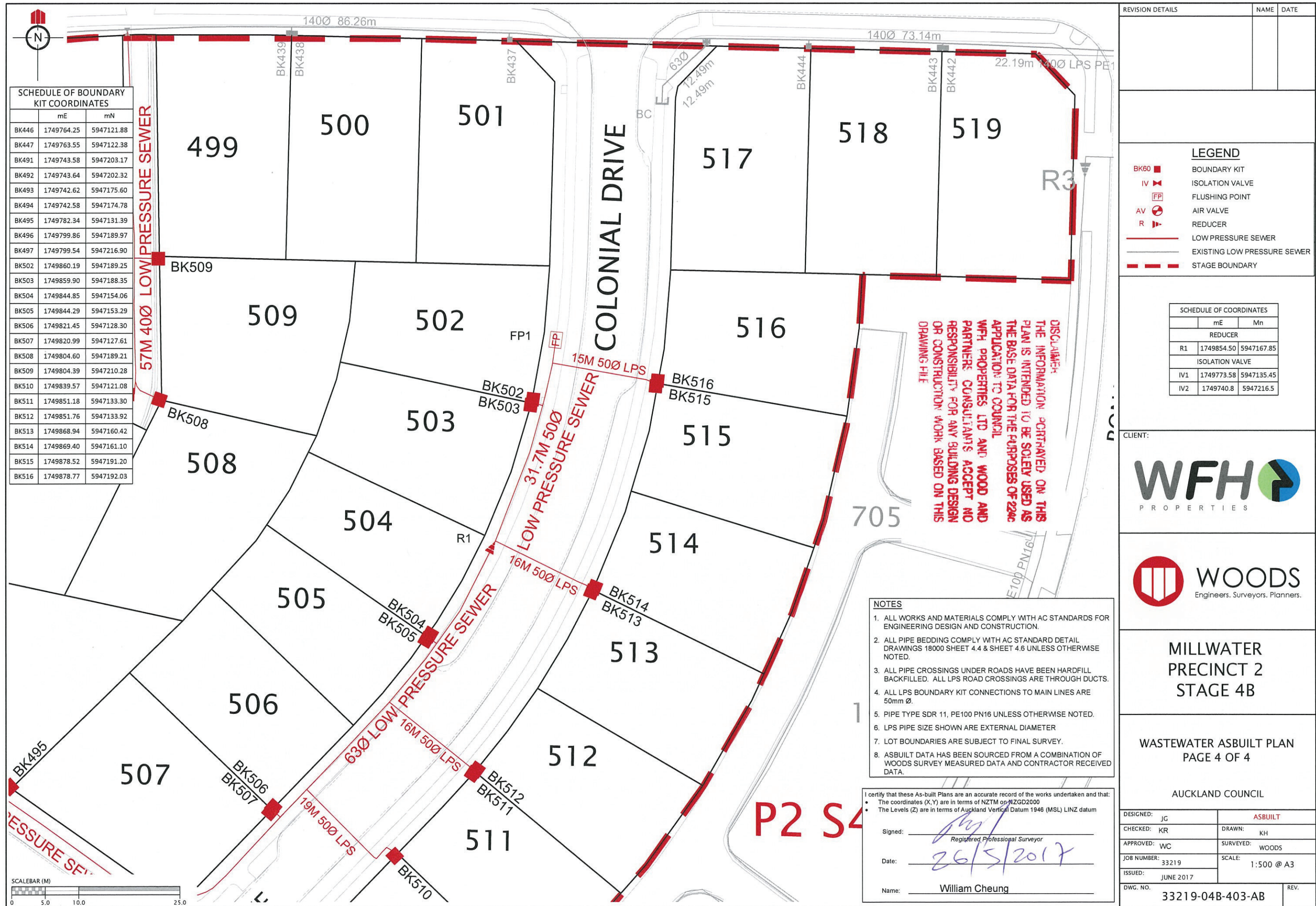
Date: 26/5/2017

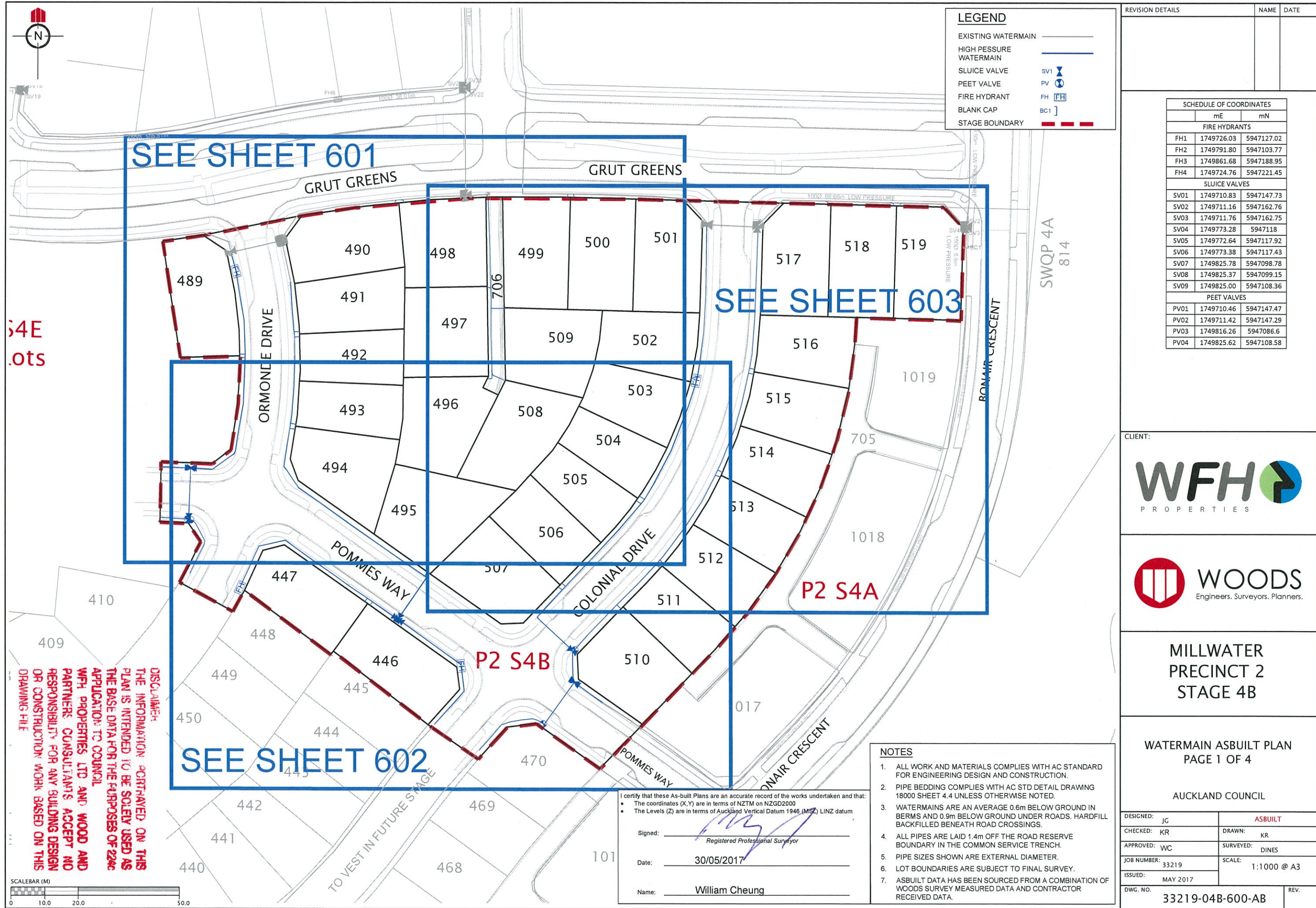
Name: William Cheung

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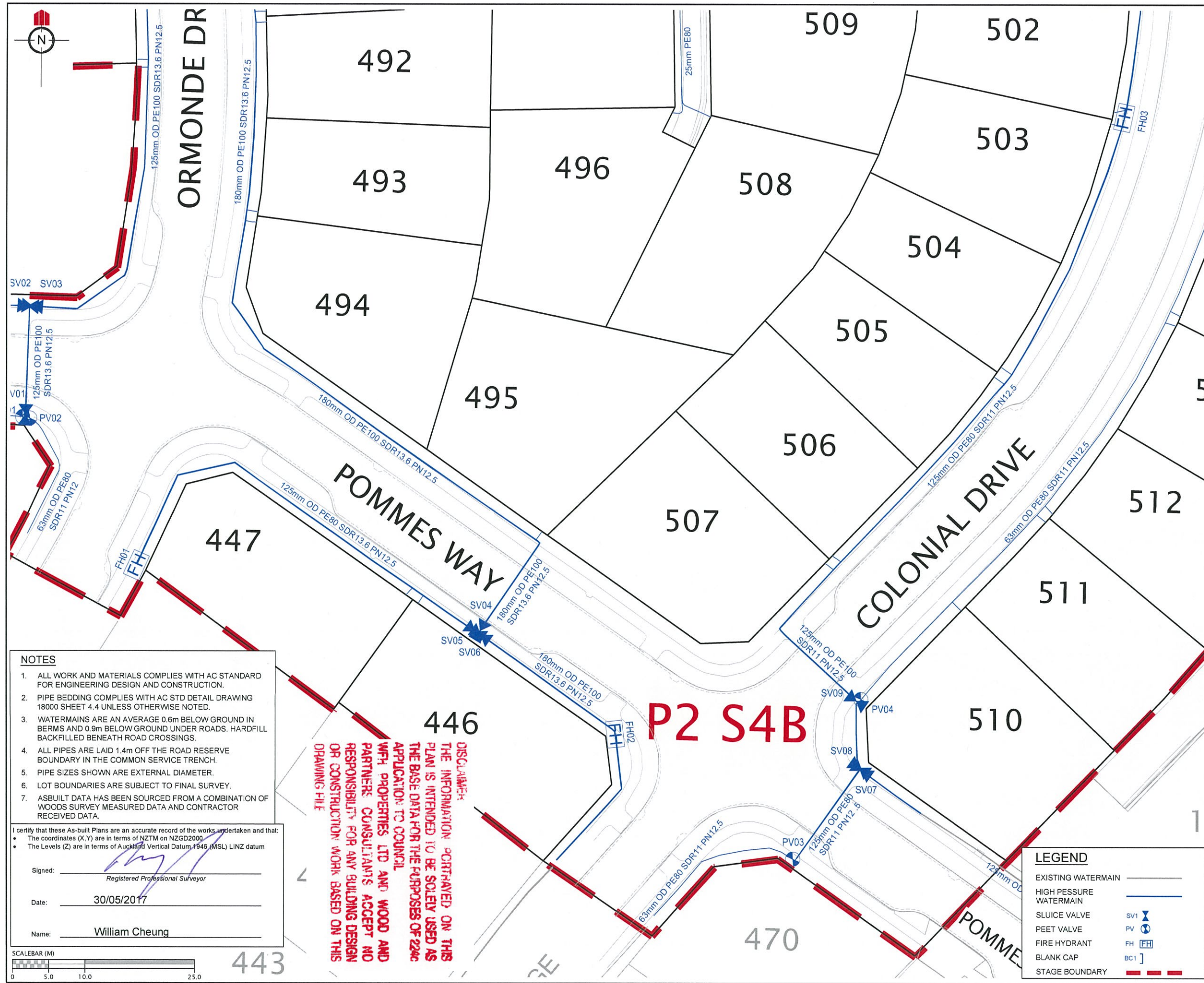




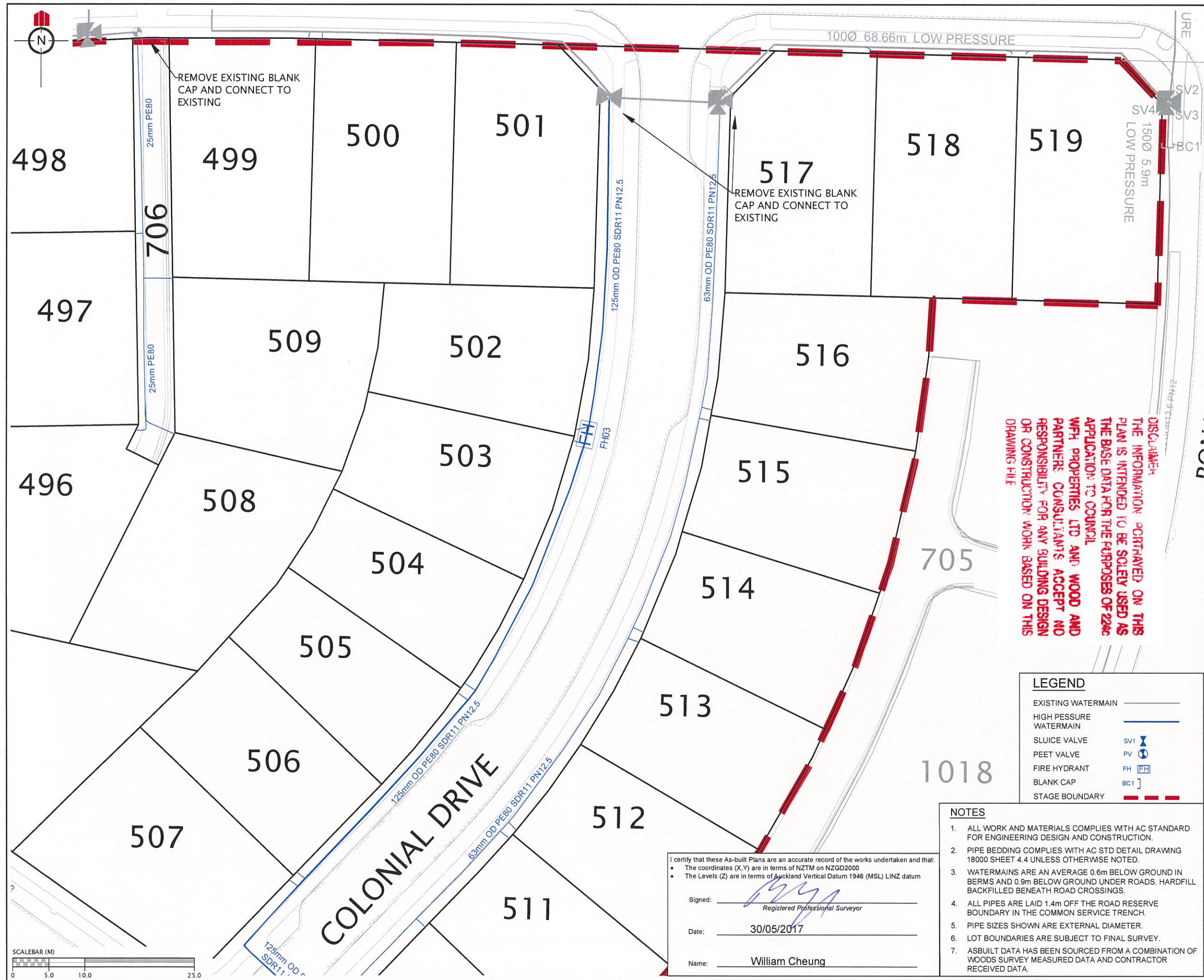








REVISION DETAILS		NAME	DATE
SCHEDULE OF COORDINATES			
	mE	mN	
FIRE HYDRANTS			
FH1	1749726.03	5947127.02	
FH2	1749791.80	5947103.77	
FH3	1749861.68	5947188.95	
FH4	1749724.76	5947221.45	
SLUICE VALVES			
SV01	1749710.83	5947147.73	
SV02	1749711.16	5947162.76	
SV03	1749711.76	5947162.75	
SV04	1749773.28	5947118	
SV05	1749772.64	5947117.92	
SV06	1749773.38	5947117.43	
SV07	1749825.78	5947098.78	
SV08	1749825.37	5947099.15	
SV09	1749825.00	5947108.36	
PEET VALVES			
PV01	1749710.46	5947147.47	
PV02	1749711.42	5947147.29	
PV03	1749816.26	5947086.6	
PV04	1749825.62	5947108.58	
CLIENT:			
WFH PROPERTIES			
WOODS Engineers, Surveyors, Planners.			
MILLWATER PRECINCT 2 STAGE 4B			
WATERMAIN ASBUILT PLAN PAGE 3 OF 4			
AUCKLAND COUNCIL			
DESIGNED: JC	ASBUILT		
CHECKED: KR	DRAWN: KR		
APPROVED: W/C	SURVEYED: DINES		
JOB NUMBER: 33219	SCALE: 1:500 @ A3		
ISSUED: MAY 2017			
DWG. NO. 33219-04B-602-AB	REV.		



REVISION DETAILS

NAME

DATE

SCHEDULE OF COORDINATES		
	mE	mN
FIRE HYDRANTS		
FH1	1749726.03	5947127.02
FH2	1749791.80	5947103.77
FH3	1749861.68	5947188.95
FH4	1749724.76	5947221.45
SLUDGE VALVES		
SV01	1749710.83	5947147.73
SV02	1749711.16	5947162.76
SV03	1749711.76	5947162.75
SV04	1749773.28	5947118
SV05	1749772.64	5947117.92
SV06	1749773.38	5947117.43
SV07	1749825.78	5947098.78
SV08	1749825.37	5947099.15
SV09	1749825.00	5947108.36
PEET VALVES		
PV01	1749710.46	5947147.47
PV02	1749711.42	5947147.29
PV03	1749816.26	5947086.6
PV04	1749825.62	5947108.58

CLIENT:

MILLWATER
PRECINCT 2
STAGE 4B

WATERMAIN ASBUILT PLAN
PAGE 4 OF 4

AUCKLAND COUNCIL

DESIGNED: JG	ASBUILT
CHECKED: KR	DRAWN: KR
APPROVED: WC	SURVEYED: DINES
JOB NUMBER: 33219	SCALE: 1:500 @ A3
ISSUED: MAY 2017	
DWG. NO. 33219-04B-603-AB	REV.