

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. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND
CONTOURS MAJOR
CONTOURS MINOR
STAGE BOUNDARIES
LOT BOUNDARIES

REVISION DETAILS	BY	DATE

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

MILLWATER
ARRAN POINT
STAGE 3

FINAL CONTOURS PLAN

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-100-AB	

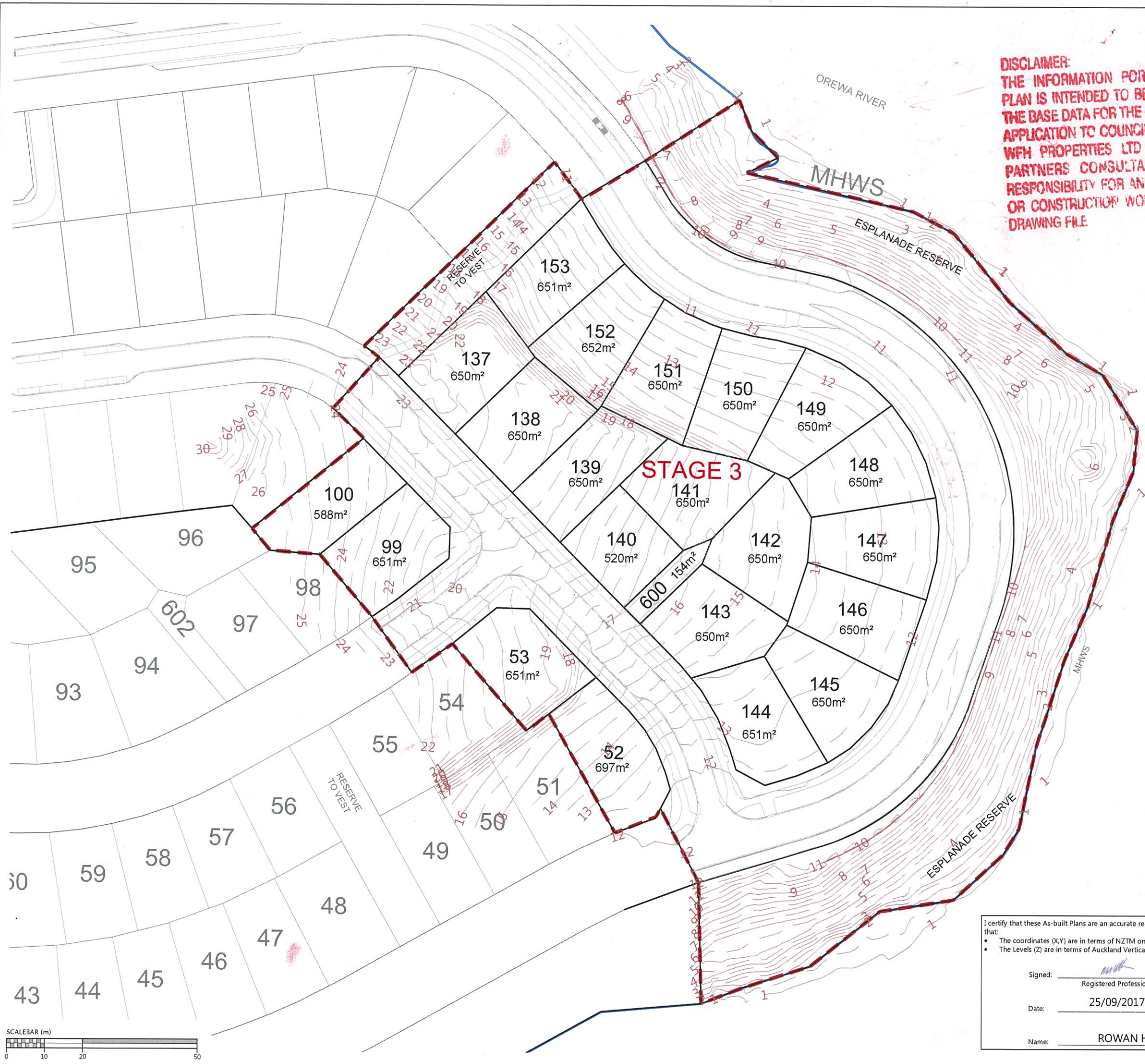
I certify that these As-built Plans are an accurate record of the works undertaken and that:

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

Signed: Registered Professional Surveyor

Date: 25/09/2017

Name: ROWAN HALAM



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NOTES

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LEGEND

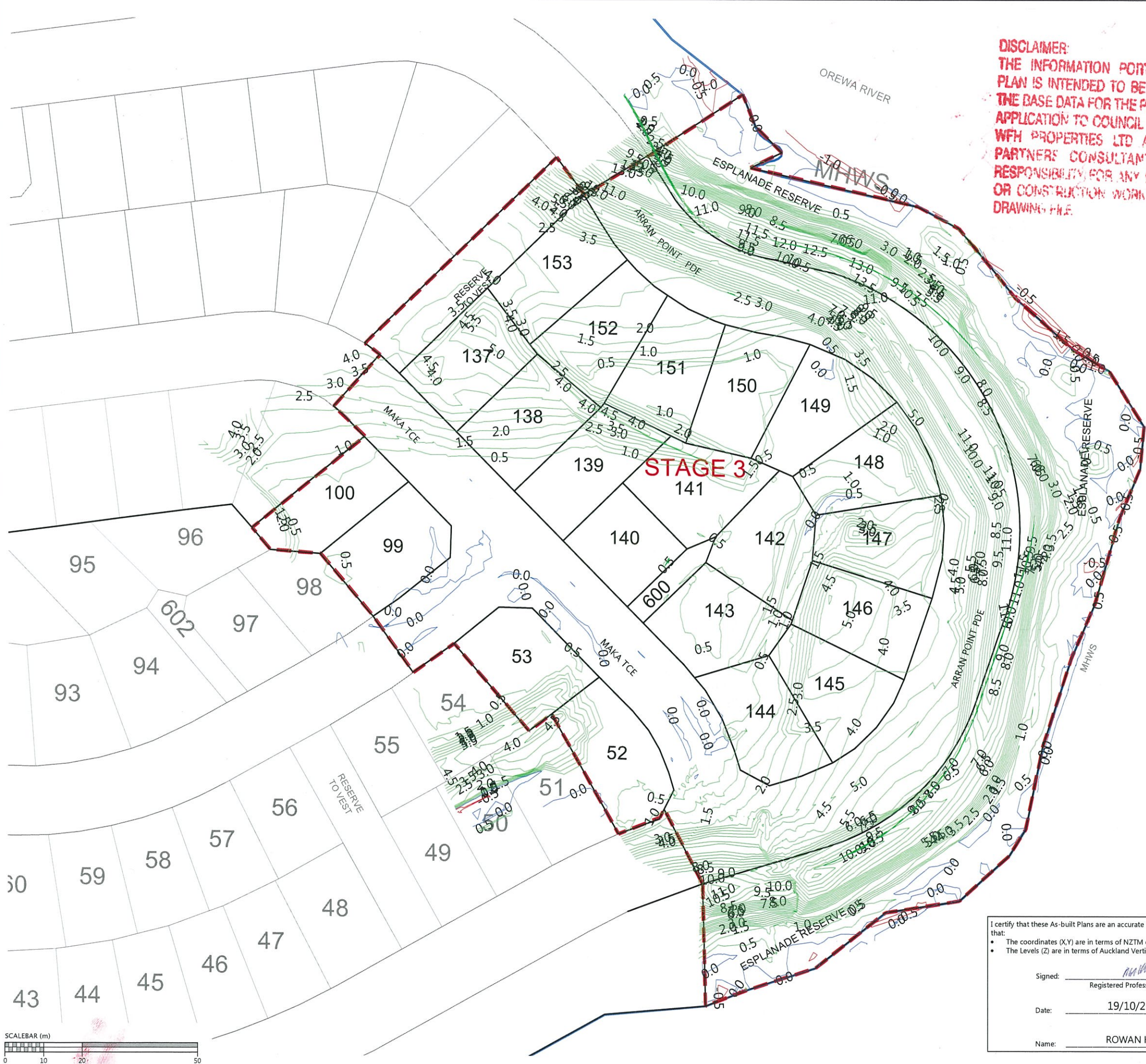
- ZERO CONTOUR
- CUT CONTOUR
- FILL CONTOUR
- STAGE BOUNDARIES
- LOT BOUNDARIES

REVISION DETAILS	BY	DATE

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

MILLWATER
ARRAN POINT
STAGE 3
CUT & FILL AS-BUILT
LOWEST TO FINAL SURFACE
SHEET 1 OF 2
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-110-AB	



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Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: ROWAN HALAM

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DRAWING FILE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

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

REVISION DETAILS	BY	DATE

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



MILLWATER
ARRAN POINT
STAGE 3
CUT & FILL AS-BUILT
ORIGINAL TO FINAL SURFACE
SHEET 2 OF 2
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-111-AB	

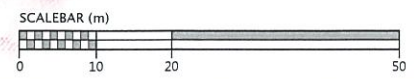
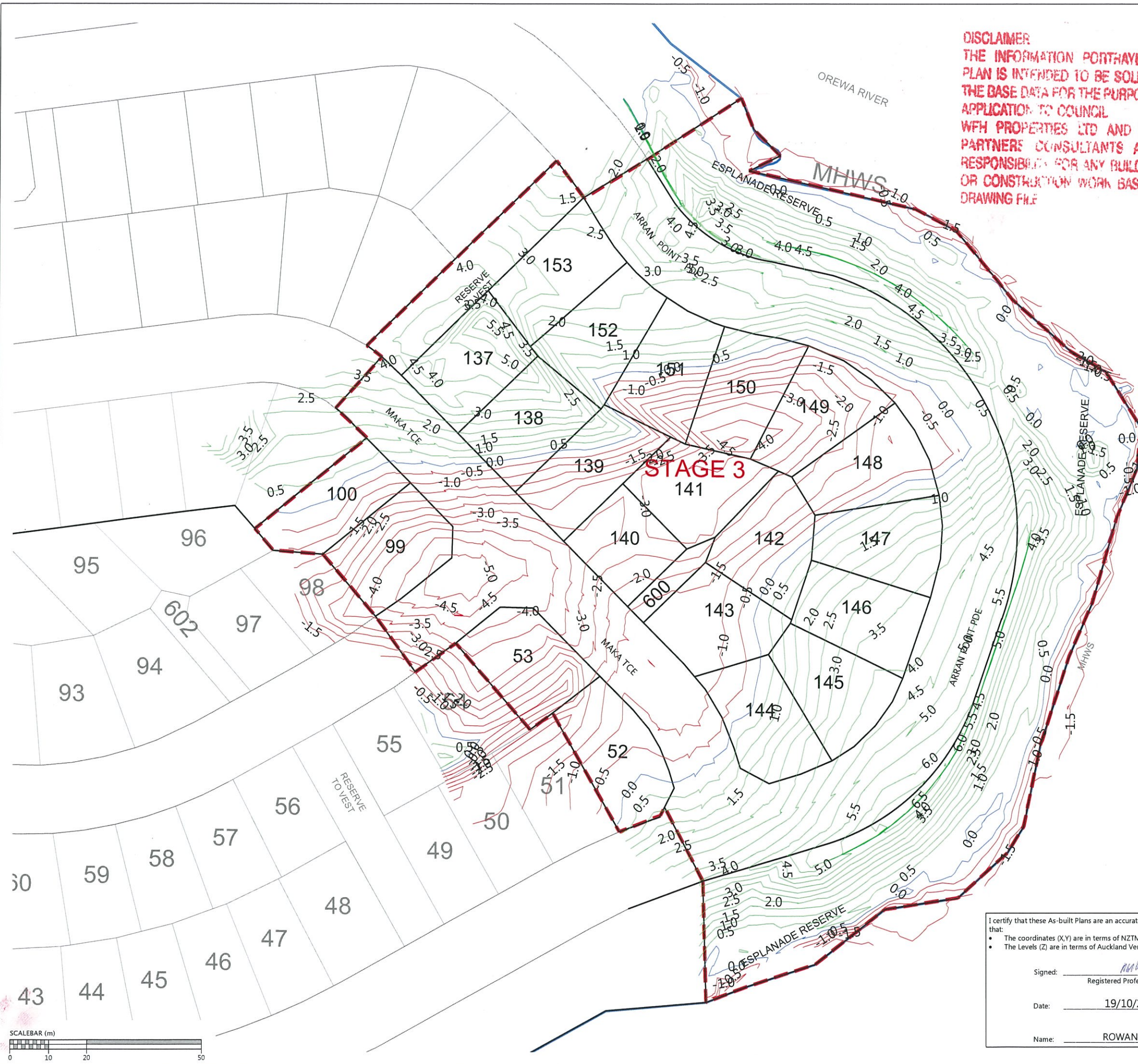
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Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: ROWAN HALAM



SEE SHEET 121

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DRAWING FILE

NOTES

1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

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
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY
- SUBGRADE UNDERCUT AREAS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	16/10/17

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



MILLWATER ARRAN POINT STAGE 3 SHEAR KEY, UNDERCUT AND SUBSOIL DRAIN ASBUILT SHEET 1 OF 3 (SLC - 62000)

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-120-AB	

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

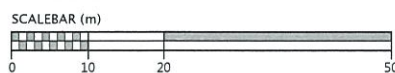
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

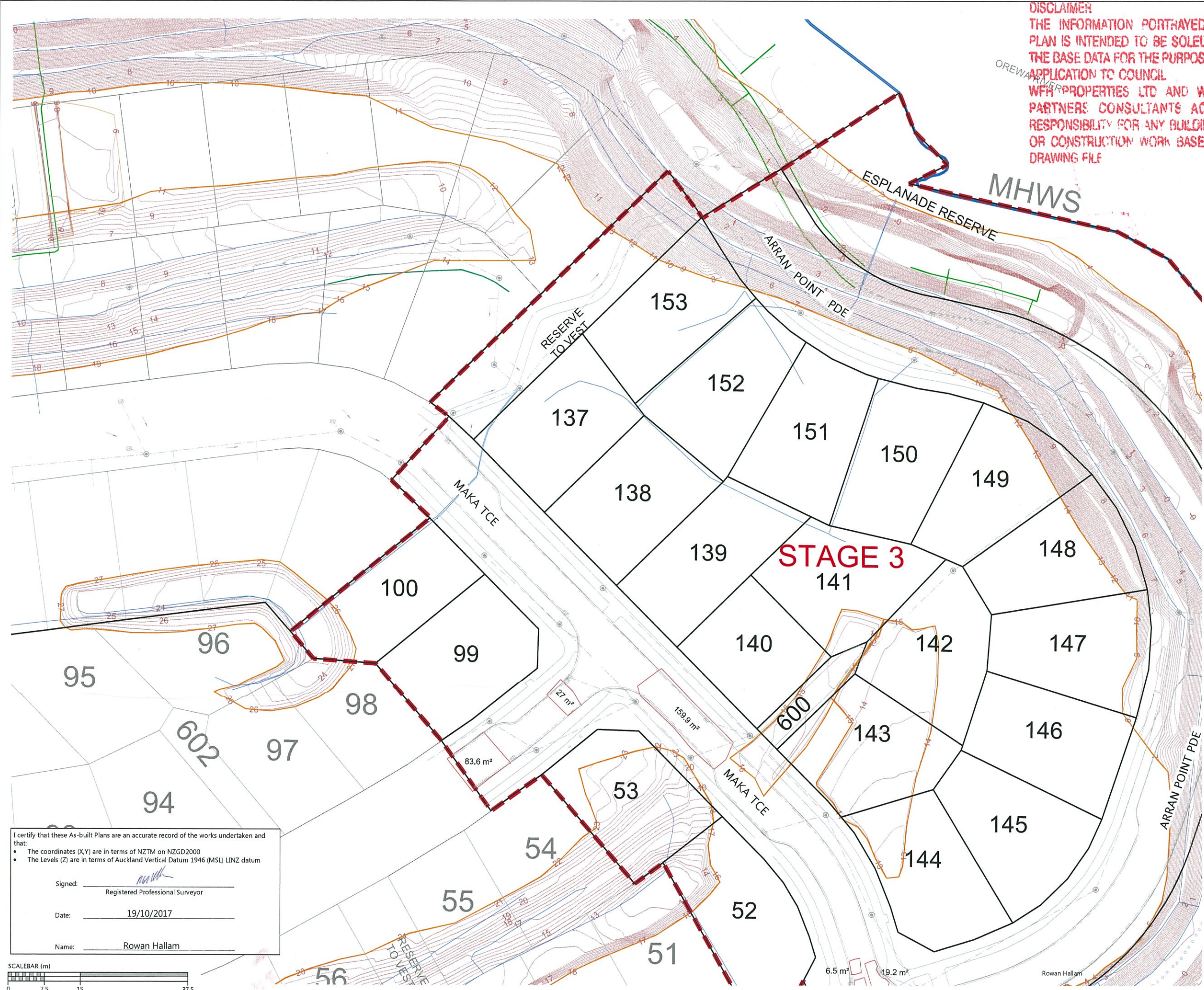
Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: Rowan Hallam

SEE SHEET 122





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NOTES
1. CONTOURS ARE AT 0.5 METRE INTERVALS
2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

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
	PALISADE WALL PILE AT BOTTOM OF SHEARKEY
	SUBGRADE UNDERCUT AREAS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	16/10/17

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

**MILLWATER
ARRAN POINT
STAGE 3**
SHEAR KEY, UNDERCUT
AND SUBSOIL DRAIN ASBUILT
SHEET 2 OF 3
(SLC - 62000)

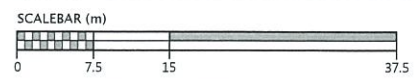
STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-121-AB	

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Signed:
Registered Professional Surveyor

Date: 19/10/2017

Name: Rowan Hallam



Document No. K137003 - ARRAN HILL - PRECINCT 7 STAGE 3 DRAWINGS SURV AS BUILT 37003-03-121-AB-SK UC & SUBSOIL DWG

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2. SUBSOIL DATA SUPPLIED BY CONTRACTOR

LEGEND

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- REINFORCED EARTH & RETAINING WALL SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY
- SUBGRADE UNDERCUT AREAS

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	16/10/17

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



MILLWATER ARRAN POINT STAGE 3 SHEAR KEY, UNDERCUT AND SUBSOIL DRAIN ASBUILT SHEET 3 OF 3 (SLC - 62000)

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-122-AB	

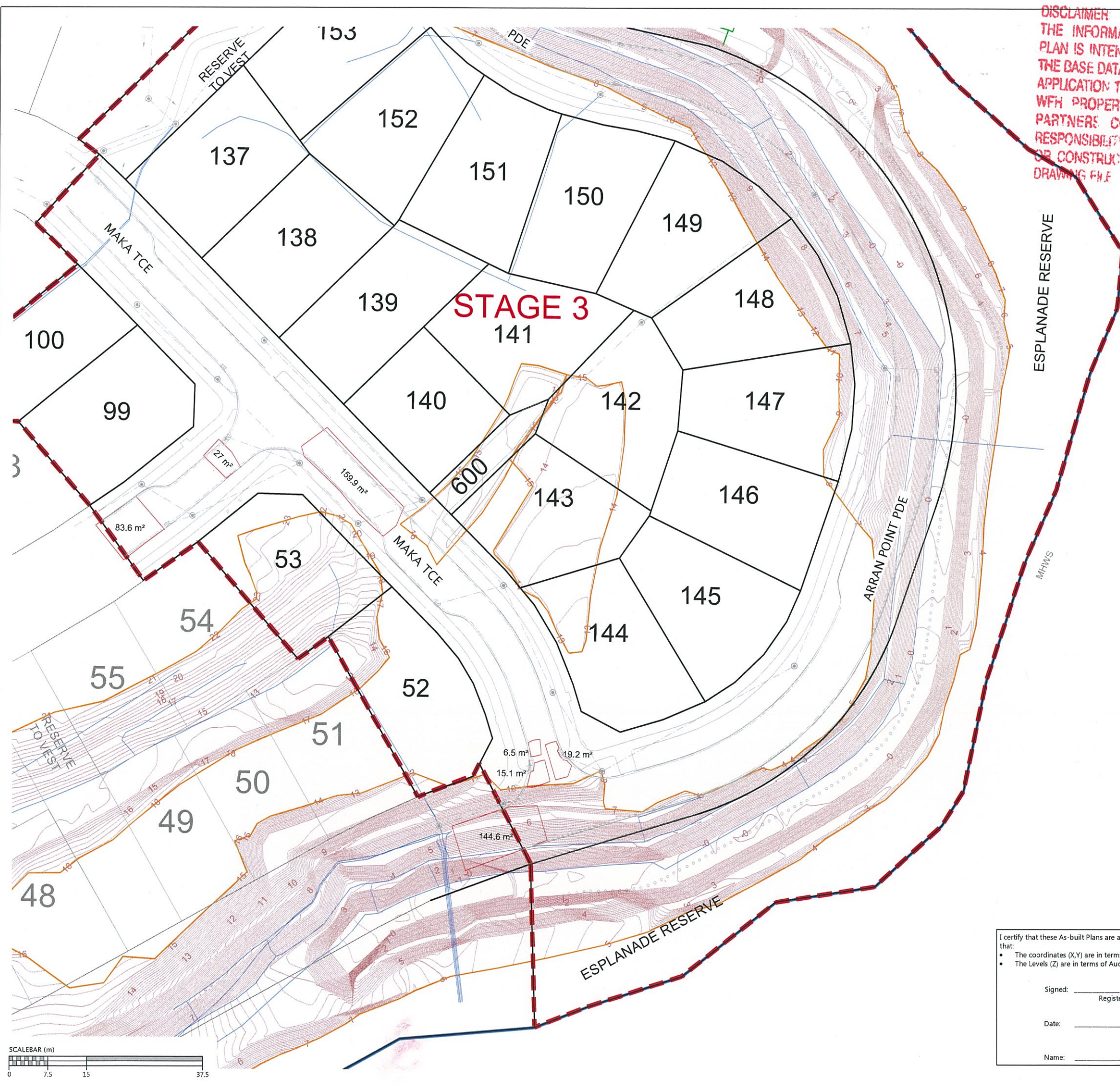
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Registered Professional Surveyor

Date: 19/10/2017

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

Signed: _____
Registered Professional Surveyor

Date: 25/09/2017

Name: ROWAN HALAM

LEGEND:

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

REVISION DETAILS	BY	DATE

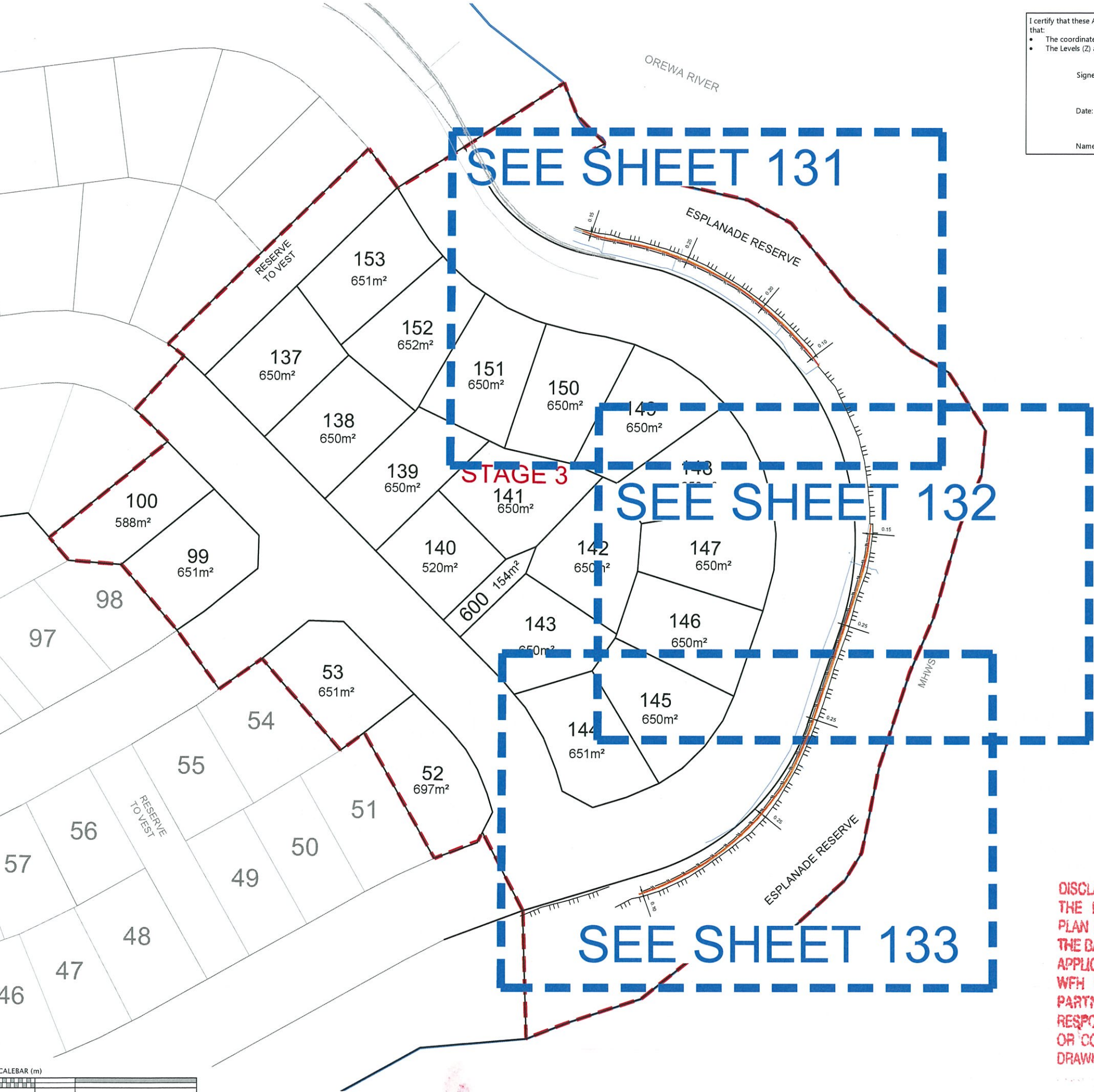
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	



MILLWATER
ARRAN POINT
STAGE 3
RETAINING WALL AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-130-AB	

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Signed: _____
Registered Professional Surveyor

Date: 25/09/2017

Name: ROWAN HALAM

LEGEND:

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

REVISION DETAILS	BY	DATE

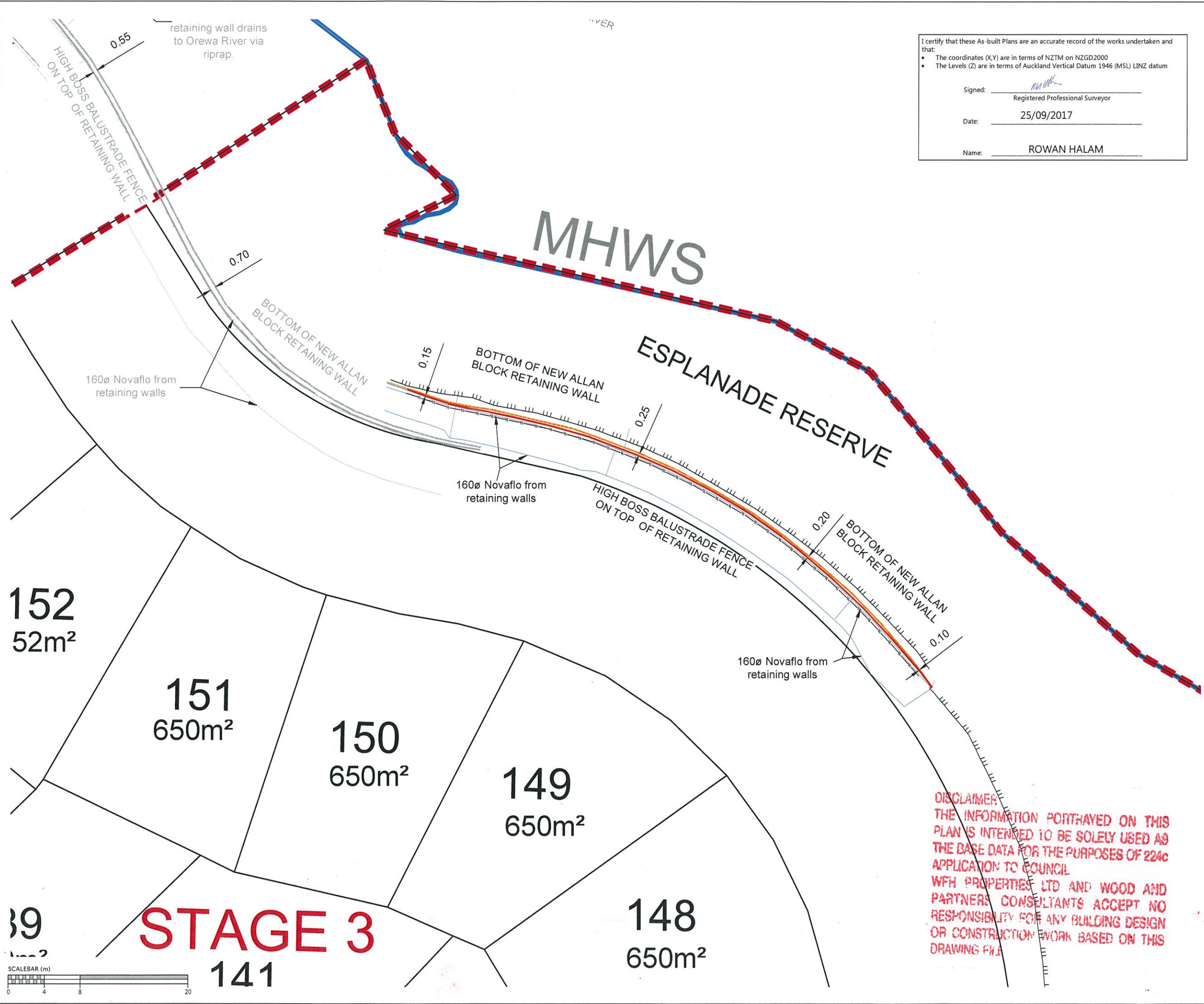
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229 WOODS.CO.NZ
DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	

 **WFH** PROPERTIES 

**MILLWATER
ARRAN POINT
STAGE 3**

RETAINING WALL AS-BUILT
SHEET 2 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-131-AB	



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LEGEND:

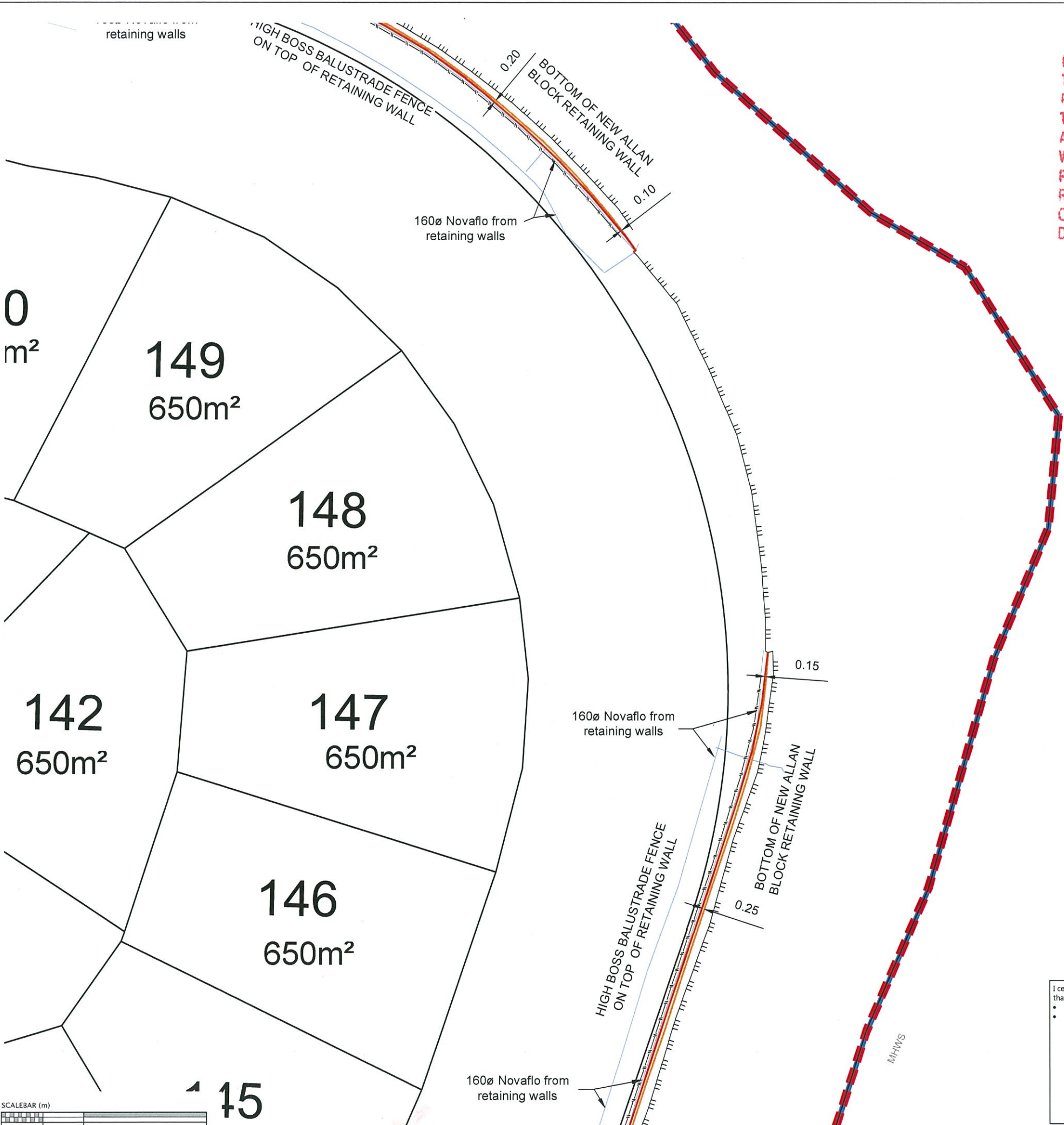
- BOTTOM FACE OF WALL
- TOP FACE OF WALL
- ☐ CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- FENCE
- TOP OF BANK
- STORMWATER LINE
- BOUNDARY
- WALL DRAINAGE LINE

REVISION DETAILS	BY	DATE

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

MILLWATER
ARRAN POINT
STAGE 3
RETAINING WALL AS-BUILT
SHEET 3 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-132-AB	



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Signed: Registered Professional Surveyor

Date: 25/09/2017

Name: ROWAN HALAM

LEGEND:	
	BOTTOM FACE OF WALL
	TOP FACE OF WALL
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	FENCE
	TOP OF BANK
	STORMWATER LINE
	BOUNDARY
	WALL DRAINAGE LINE

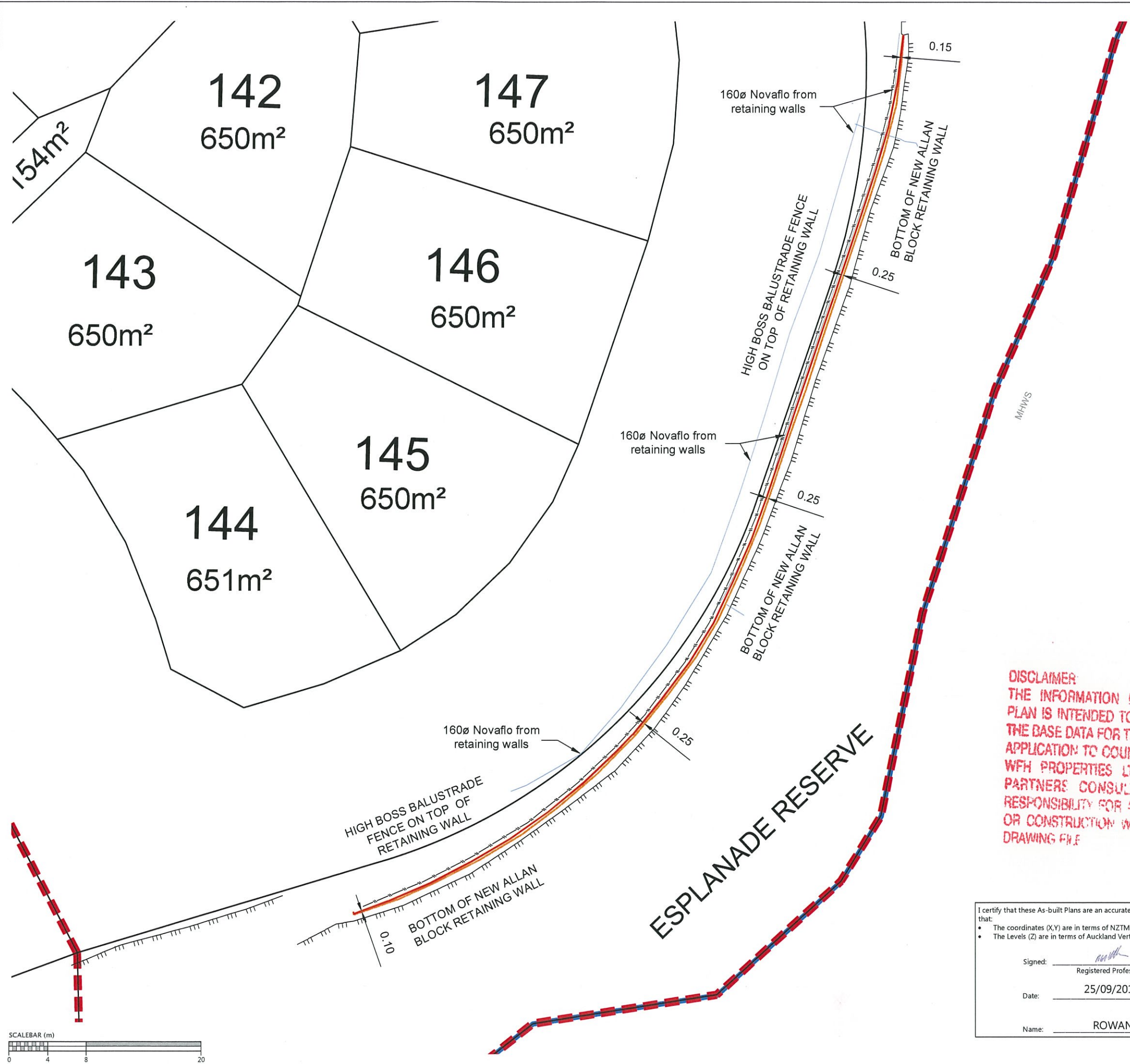
REVISION DETAILS	BY	DATE

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



MILLWATER ARRAN POINT STAGE 3	
RETAINING WALL AS-BUILT SHEET 4 OF 4 (SLC-62000)	

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-133-AB	



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Signed: Registered Professional Surveyor

Date: 25/09/2017

Name: ROWAN HALAM

SEE SHEET 202

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SEE SHEET 201

STAGE 3

LEGEND

- STREET LIGHT
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- 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 Street Lights

Street Light #	Easting	Northing	Street Light Type
SL01	1749971.90	5948937.22	Cree Edge Square T3M 40 LED 525 mA 4000K Series 'E' on 7.5m pole and 1m arm (700mm setback)
SL02	1749972.13	5948911.33	
SL03	1750004.52	5948902.86	
SL04	1750032.73	5948860.02	
SL05	1750062.16	5948861.73	
SL06	1750092.57	5948890.72	
SL07	1750103.19	5948925.41	
SL08	1750089.93	5948970.12	
SL09	1750042.02	5948992.87	

Schedule of Coordinates Street Trees

Tree #	Easting	Northing	Tree Type
ST01	1750026.42	5949016.93	POHUTUKAWA
ST02	1750018.54	5949006.66	
ST03	1750052.29	5948989.47	
ST04	1750076.36	5948981.08	
ST05	1750098.89	5948953.32	
ST06	1750114.58	5948933.28	
ST07	1750087.34	5948882.06	
ST08	1750073.65	5948868.43	
ST09	1750030.54	5948853.92	
ST22	1750039.66	5949005.40	
ST10	1750038.95	5948869.83	TOTARA
ST11	1750027.13	5948877.69	
ST12	1750026.76	5948892.80	
ST13	1749997.23	5948911.15	LIQUID AMBER
ST14	1749999.66	5948920.44	
ST15	1749977.99	5948916.05	TOTARA
ST16	1749960.65	5948902.36	
ST17	1749967.02	5948918.02	
ST18	1749987.14	5948933.20	
ST19	1749965.26	5948943.56	
ST20	1749966.98	5948954.35	
ST21	1749946.59	5948963.16	

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

Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

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 OR EXPOSED AGGREGATE AS 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.

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	19/10/17

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



**MILLWATER
ARRAN POINT
STAGE 3
ROADING AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 4
(SLC-62000)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-200-AB	

Schedule of Coordinates Street Trees			
Tree #	Easting	Northing	Tree Type
ST01	1750026.42	5949016.93	POHUTUKAWA
ST02	1750018.54	5949006.66	
ST03	1750052.29	5948989.47	
ST04	1750076.36	5948981.08	
ST05	1750098.89	5948953.32	
ST06	1750114.58	5948933.28	
ST07	1750087.34	5948882.06	TOTARA
ST08	1750073.65	5948868.43	
ST09	1750030.54	5948853.92	
ST22	1750039.66	5949005.40	
ST10	1750038.95	5948869.83	TOTARA
ST11	1750027.13	5948877.69	
ST12	1750026.76	5948892.80	
ST13	1749997.23	5948911.15	
ST14	1749999.66	5948920.44	LIQUID AMBER
ST15	1749977.99	5948916.05	
ST16	1749960.65	5948902.36	
ST17	1749967.02	5948918.02	
ST18	1749987.14	5948933.20	TOTARA
ST19	1749965.26	5948943.56	
ST20	1749966.98	5948954.35	
ST21	1749946.59	5948963.16	

Schedule of Coordinates Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749971.90	5948937.22	Cree EDGE Square T3M 40 LED 525 mA 4000K Series 'E' on 7.5m pole and 1m arm (700mm setback)
SL02	1749972.13	5948911.33	
SL03	1750004.52	5948902.86	
SL04	1750032.73	5948860.02	
SL05	1750062.16	5948861.73	
SL06	1750092.57	5948890.72	
SL07	1750103.19	5948925.41	
SL08	1750089.93	5948970.12	
SL09	1750042.02	5948992.87	

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 OR EXPOSED AGGREGATE AS 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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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		BY	DATE
1	ISSUED FOR INFORMATION	KH	19/10/17

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



MILLWATER ARRAN POINT STAGE 3 ROADING AS-BUILT SHEET 2 OF 4 (SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-201-AB	

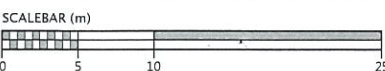
I certify that these As-built Plans are an accurate record of the works undertaken and that:
• The coordinates (X,Y) are in terms of NZTM on NZGD2000
• The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: Rowan Hallam

LEGEND	
	STREET LIGHT
	ROAD NAME SIGN
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	RG-6 SIGN (GIVE WAY)
	STREET TREE
	STAGE EXTENTS
	SS MANHOLE
	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 Street Lights			
Street Light #	Easting	Northing	Street Light Type
SL01	1749971.90	5948937.22	Cree DOCK Series T3M 40 LED 525 mA 4000K Square 'E' on 7.5m pole and 1m arm (700mm setback)
SL02	1749972.13	5948911.33	
SL03	1750004.52	5948902.86	
SL04	1750032.73	5948860.02	
SL05	1750062.16	5948861.73	
SL06	1750092.57	5948890.72	
SL07	1750103.19	5948925.41	
SL08	1750089.93	5948970.12	
SL09	1750042.02	5948992.87	

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

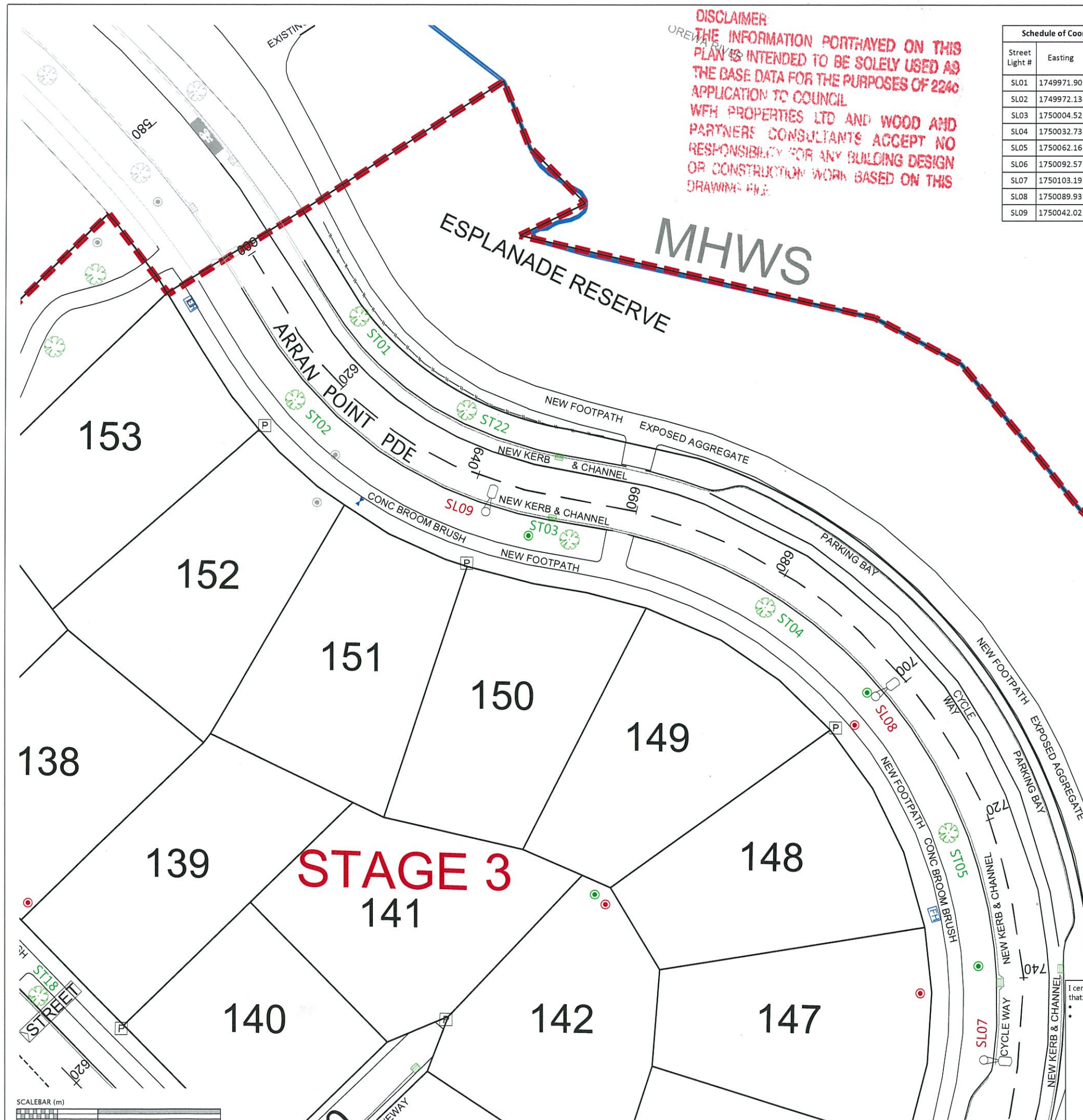
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____

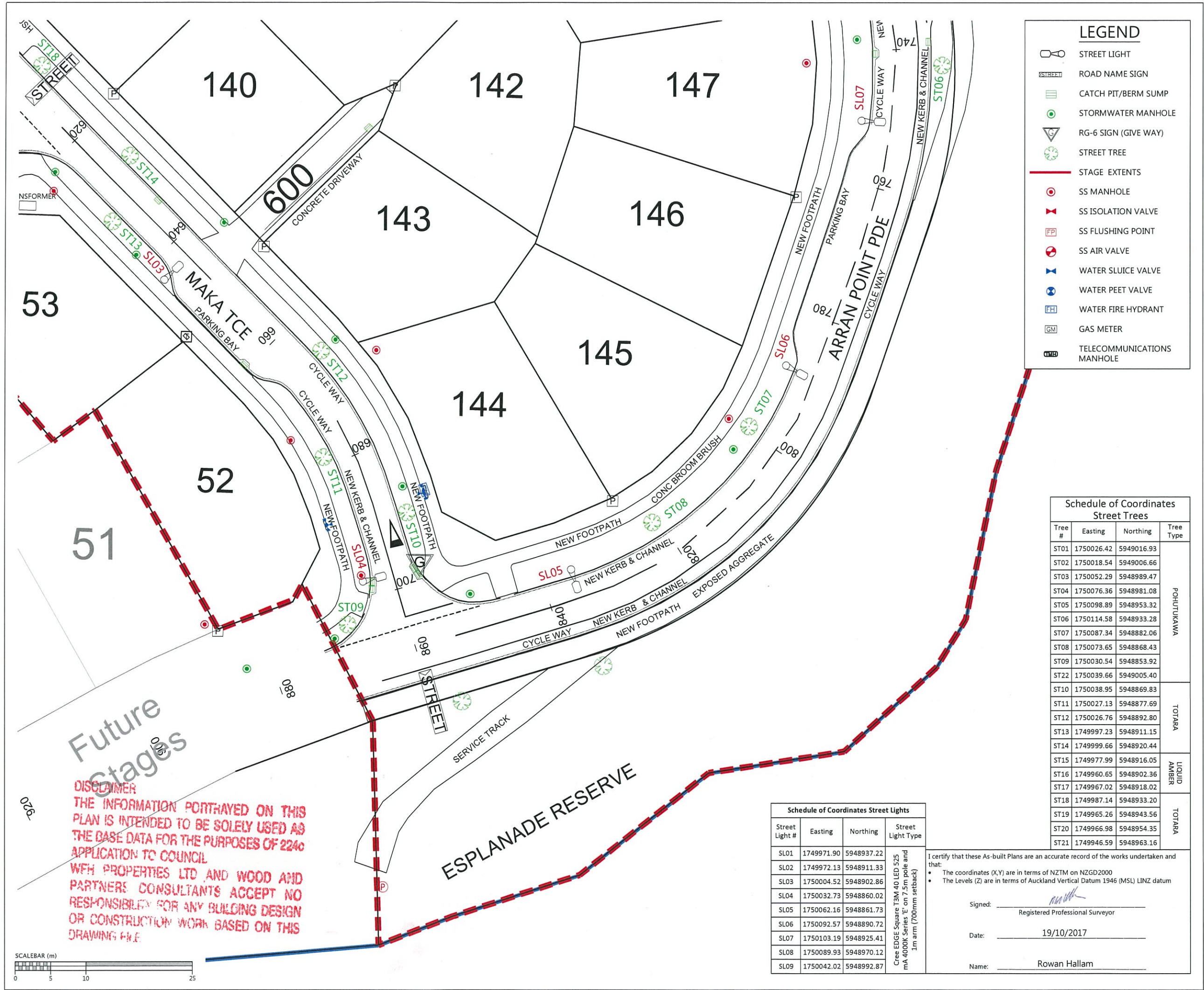
Registered Professional Surveyor

Date: _____ 19/10/2017 _____

Name: _____ Rowan Hallam _____



SCALEBAR (m)



- NOTES**
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 4. ALL FOOTPATHS ARE 125mm THICK BRUSHED CONCRETE OR EXPOSED AGGREGATE AS 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.

Schedule of Coordinates
Street Trees

Tree #	Easting	Northing	Tree Type
ST01	1750026.42	5949016.93	POHUTUKAWA
ST02	1750018.54	5949006.66	
ST03	1750052.29	5948989.47	
ST04	1750076.36	5948981.08	
ST05	1750098.89	5948953.32	
ST06	1750114.58	5948933.28	
ST07	1750087.34	5948882.06	TOTARA
ST08	1750073.65	5948868.43	
ST09	1750030.54	5948853.92	
ST22	1750039.66	5949005.40	
ST10	1750038.95	5948869.83	LIQUID AMBER
ST11	1750027.13	5948877.69	
ST12	1750026.76	5948892.80	TOTARA
ST13	1749997.23	5948911.15	
ST14	1749999.66	5948920.44	TOTARA
ST15	1749977.99	5948916.05	
ST16	1749960.65	5948902.36	TOTARA
ST17	1749967.02	5948918.02	
ST18	1749987.14	5948933.20	TOTARA
ST19	1749965.26	5948943.56	
ST20	1749966.98	5948954.35	TOTARA
ST21	1749946.59	5948963.16	

Schedule of Coordinates Street Lights

Street Light #	Easting	Northing	Street Light Type
SL01	1749971.90	5948937.22	Cree EDGE Square T3M 40 LED 525 mA 4000K Series 'E' on 7.5m pole and 1m arm (700mm setback)
SL02	1749972.13	5948911.33	
SL03	1750004.52	5948902.86	
SL04	1750032.73	5948860.02	
SL05	1750062.16	5948861.73	
SL06	1750092.57	5948890.72	
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SL08	1750089.93	5948970.12	
SL09	1750042.02	5948992.87	

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Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: Rowan Hallam

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	19/10/17

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



**MILLWATER
ARRAN POINT
STAGE 3**

**ROADING AS-BUILT
SHEET 4 OF 4
(SLC-62000)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-203-AB	

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



LEGEND	
	STREET LIGHT
	ROAD NAME SIGN
	CATCH PIT/BERM SUMP
	STORMWATER MANHOLE
	SEWER MANHOLE
	RG-6 SIGN (GIVE WAY)
	TREE
	STAGE EXTENTS
	FENCELINE
	BOTTOM FACE OF WALL
	TOP FACE OF WALL
	PARK BENCH

NOTES

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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.

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	19/10/17

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



MILLWATER ARRAN POINT STAGE 3 RESERVE AS-BUILT SHEET 1 OF 4 (SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-250-AB	

DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 224 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.

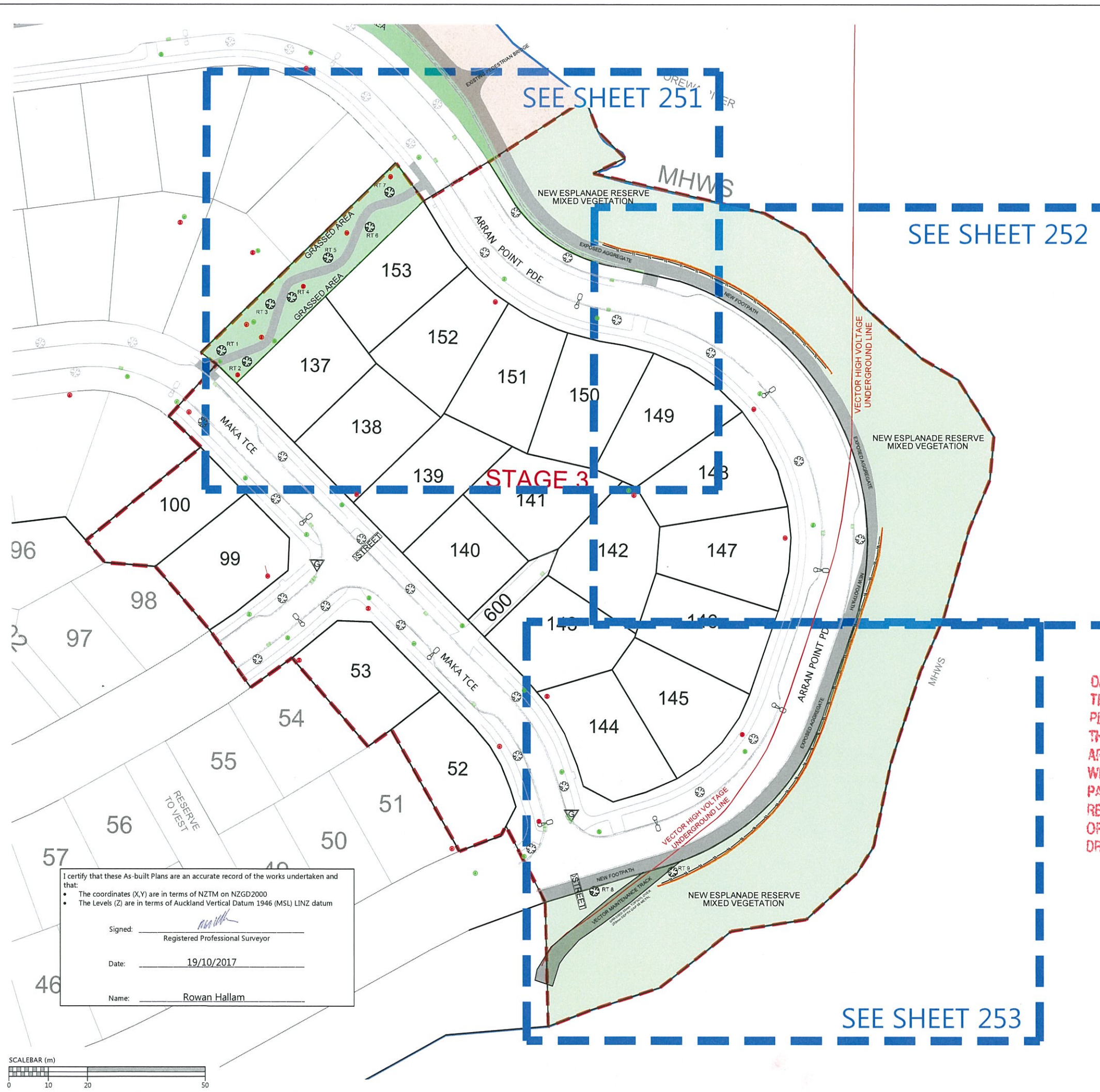
Schedule of Coordinates Reserve Trees

Tree #	Easting	Northing	Tree Type
RT1	1749735.14	5949079.56	Flowering Cherry
RT2	1749751.72	5949082.41	
RT3	1749757.97	5949079.23	
RT4	1749762.28	5949082.01	
RT5	1749770.17	5949085.37	
RT6	1749775.51	5949080.40	Puhuhu kawa
RT7	1749789.48	5949082.11	
RT8	1749920.39	5949083.73	
RT9	1749925.06	5949078.28	

SEE SHEET 253

SEE SHEET 252

SEE SHEET 251



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

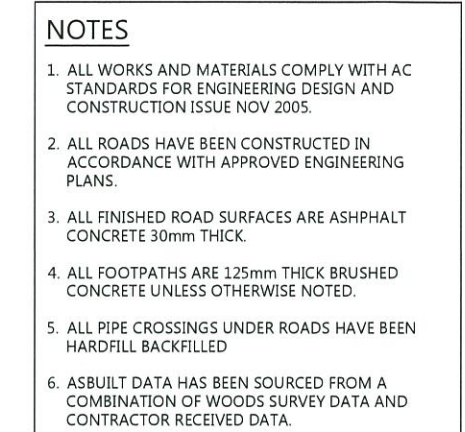
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Registered Professional Surveyor

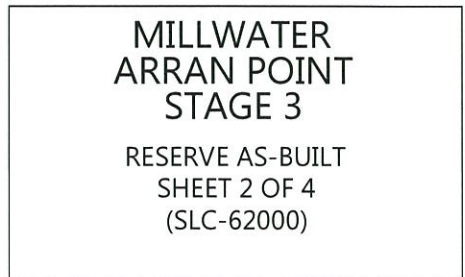
Date: 19/10/2017

Name: Rowan Hallam

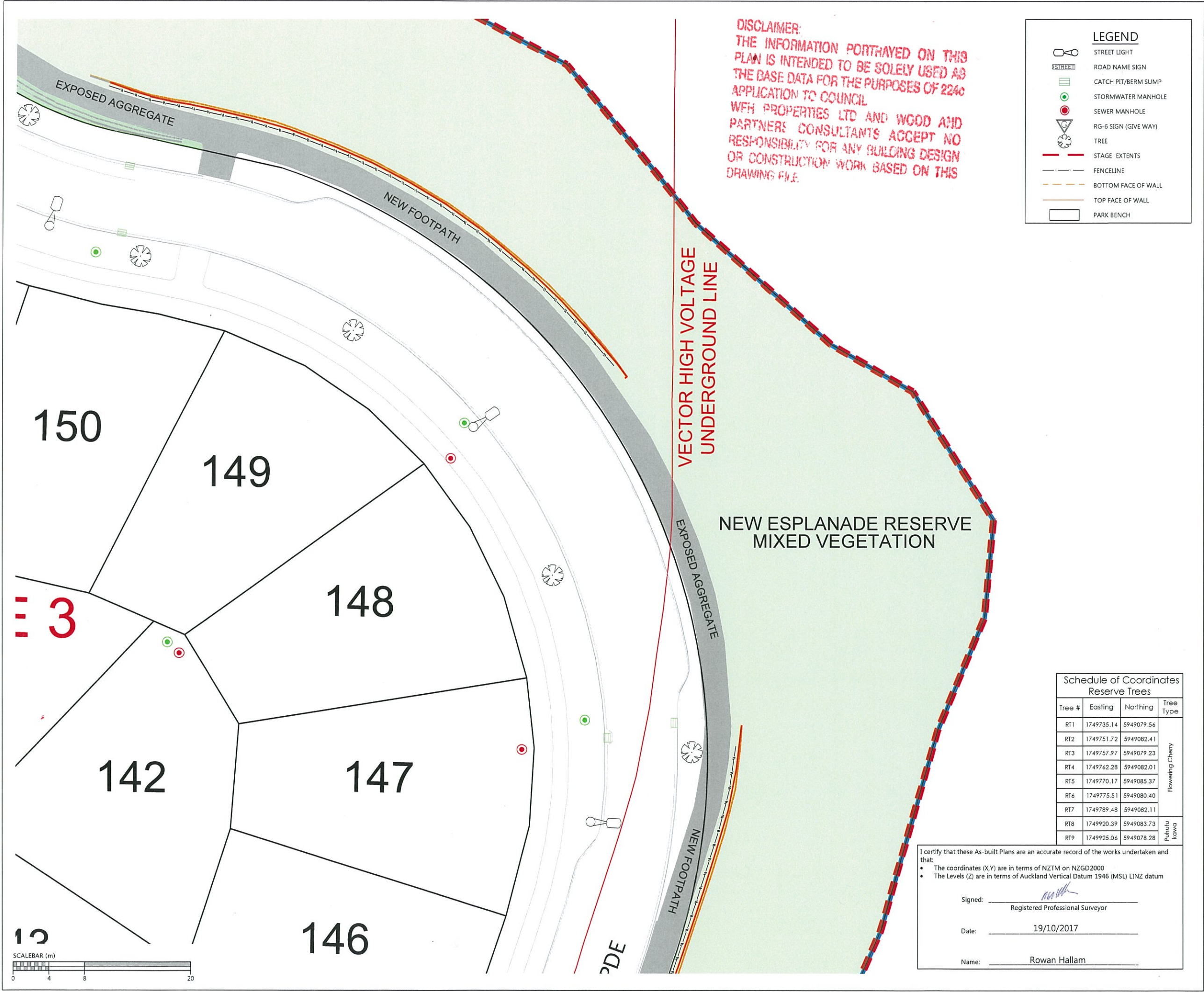




SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING 8, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	WOODS.CO.NZ



STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-251-AB	



NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	3/10/17

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



MILLWATER
ARRAN POINT
STAGE 3
RESERVE AS-BUILT
SHEET 3 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-252-AB	

NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	19/10/17

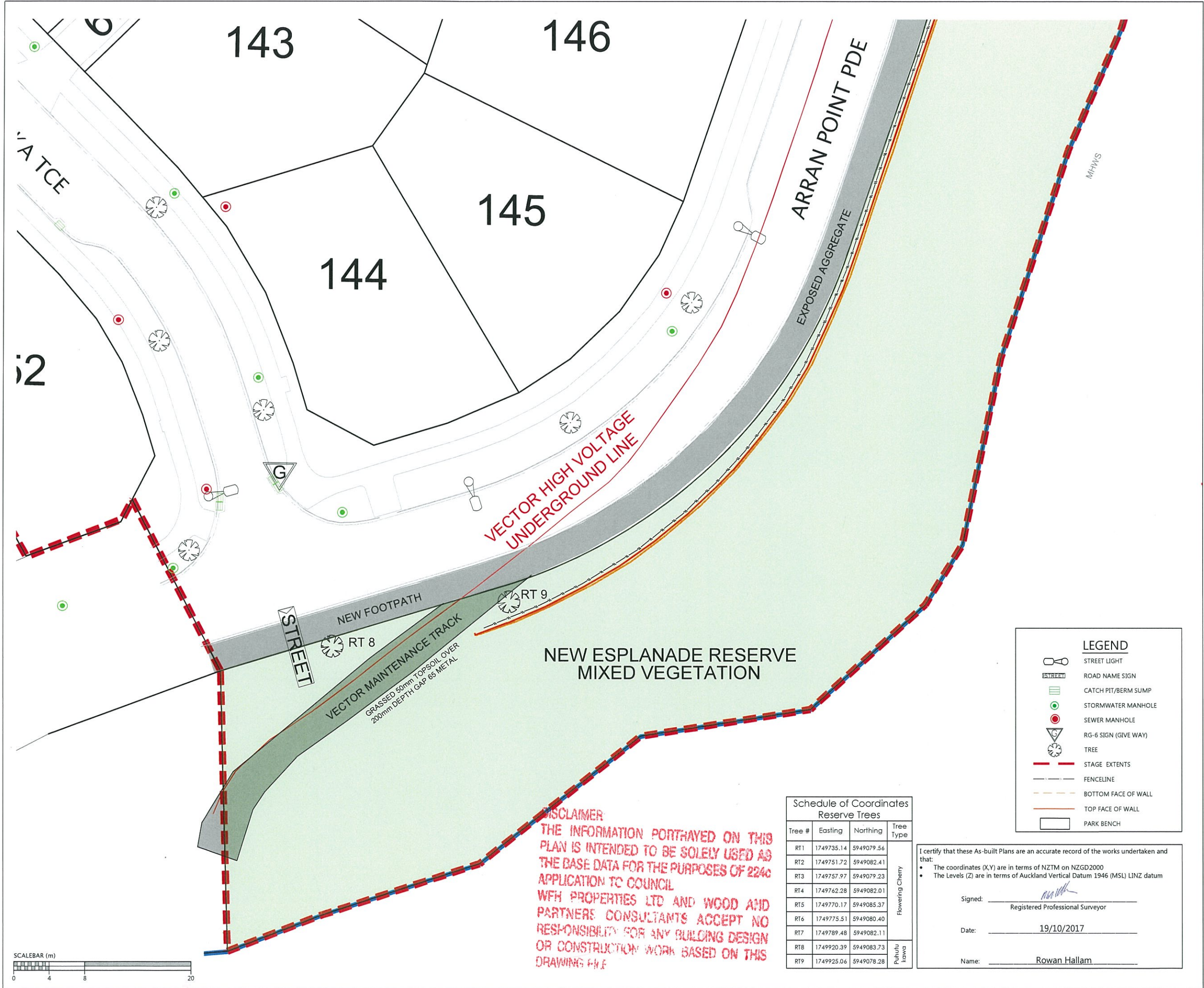
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	MB	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	WOODS.CO.NZ



MILLWATER
ARRAN POINT
STAGE 3

RESERVE AS-BUILT
SHEET 4 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:400 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-253-AB	



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THE INFORMATION PORTRAYED ON THIS
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APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND
PARTNERS CONSULTANTS ACCEPT NO
RESPONSIBILITY FOR ANY BUILDING DESIGN
OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE

LEGEND

STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
OVERLAND FLOW	
NEW STORMWATER	
EXISTING STORMWATER	
SUBSOIL DRAINAGE	
STAGE BOUNDARY	

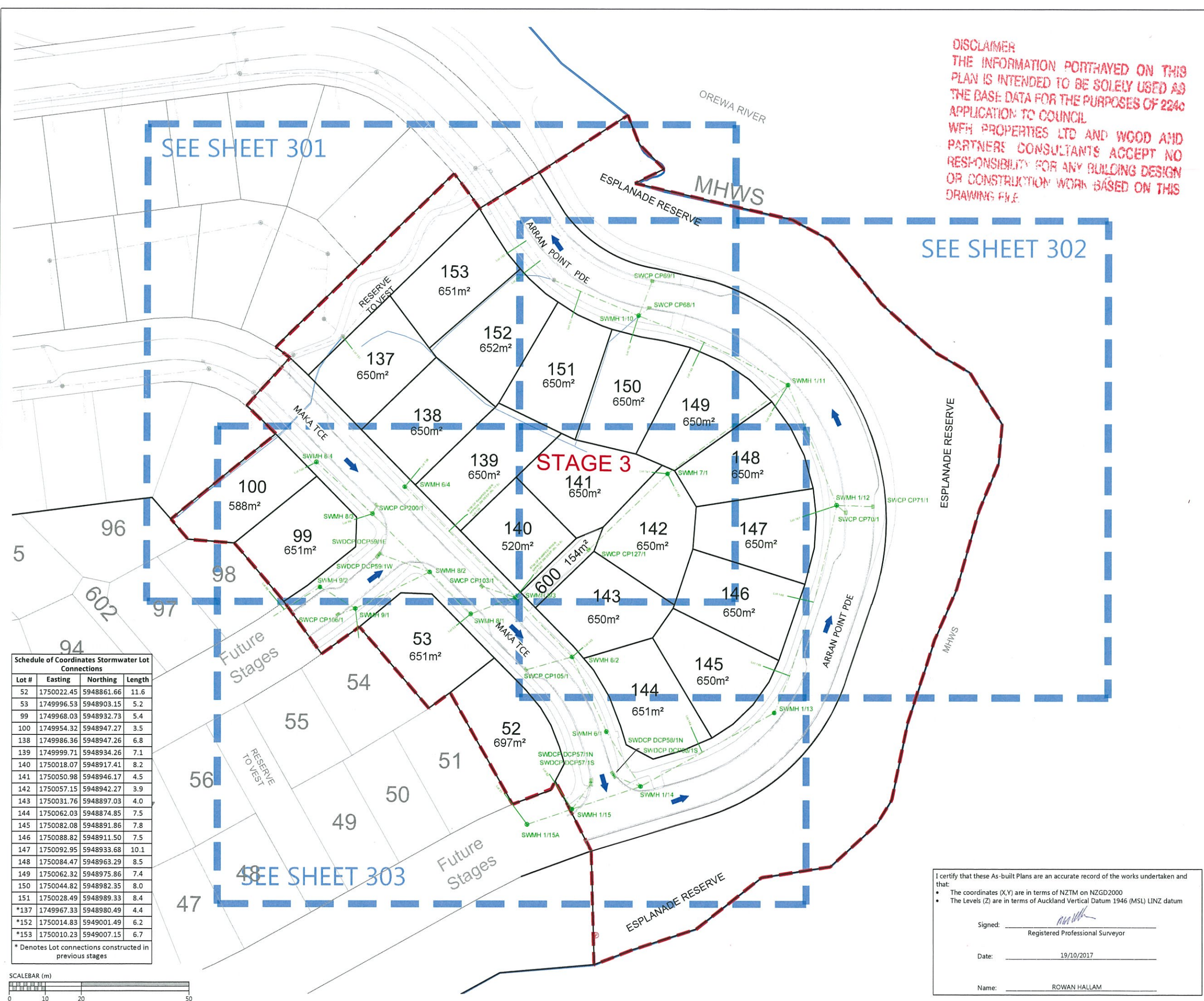
- NOTES
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 2. ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 3. ALL CESSPIT LEADS AND PIPES UNDER THE ROAD AND CARRIDGWAYS ARE REINFORCED CONCRETE PIPES CLASS 4 (Z) RRJ. ALL OTHER PIPELINES ARE REINFORCED CONCRETE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED.
 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 100mm ϕ .
 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		BY	DATE
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DESIGNED	MB	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	

MILLWATER
ARRAN POINT
STAGE 3
STORMWATER AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 4
(SLC-62000)

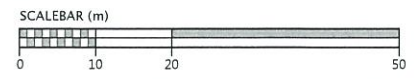
STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-300-AB	



Schedule of Coordinates Stormwater Lot Connections

Lot #	Easting	Northing	Length
52	1750022.45	5948861.66	11.6
53	1749996.53	5948903.15	5.2
99	1749968.03	5948932.73	5.4
100	1749954.32	5948947.27	3.5
138	1749986.36	5948947.26	6.8
139	1749999.71	5948934.26	7.1
140	1750018.07	5948917.41	8.2
141	1750050.98	5948946.17	4.5
142	1750057.15	5948942.27	3.9
143	1750031.76	5948897.03	4.0
144	1750062.03	5948874.85	7.5
145	1750082.08	5948891.86	7.8
146	1750088.82	5948911.50	7.5
147	1750092.95	5948933.68	10.1
148	1750084.47	5948963.29	8.5
149	1750062.32	5948975.86	7.4
150	1750044.82	5948982.35	8.0
151	1750028.49	5948989.33	8.4
*137	1749967.33	5948980.49	4.4
*152	1750014.83	5949001.49	6.2
*153	1750010.23	5949007.15	6.7

* Denotes Lot connections constructed in previous stages



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: 19/10/2017

Name: ROWAN HALLAM

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Lot #	Easting	Northing	Length
52	1750022.45	5948861.66	11.6
53	1749996.53	5948903.15	5.2
99	1749968.03	5948932.73	5.4
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142	1750057.15	5948942.27	3.9
143	1750031.76	5948897.03	4.0
144	1750062.03	5948874.85	7.5
145	1750082.08	5948891.86	7.8
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*153	1750010.23	5949007.15	6.7
* Denotes Lot connections constructed in previous stages			

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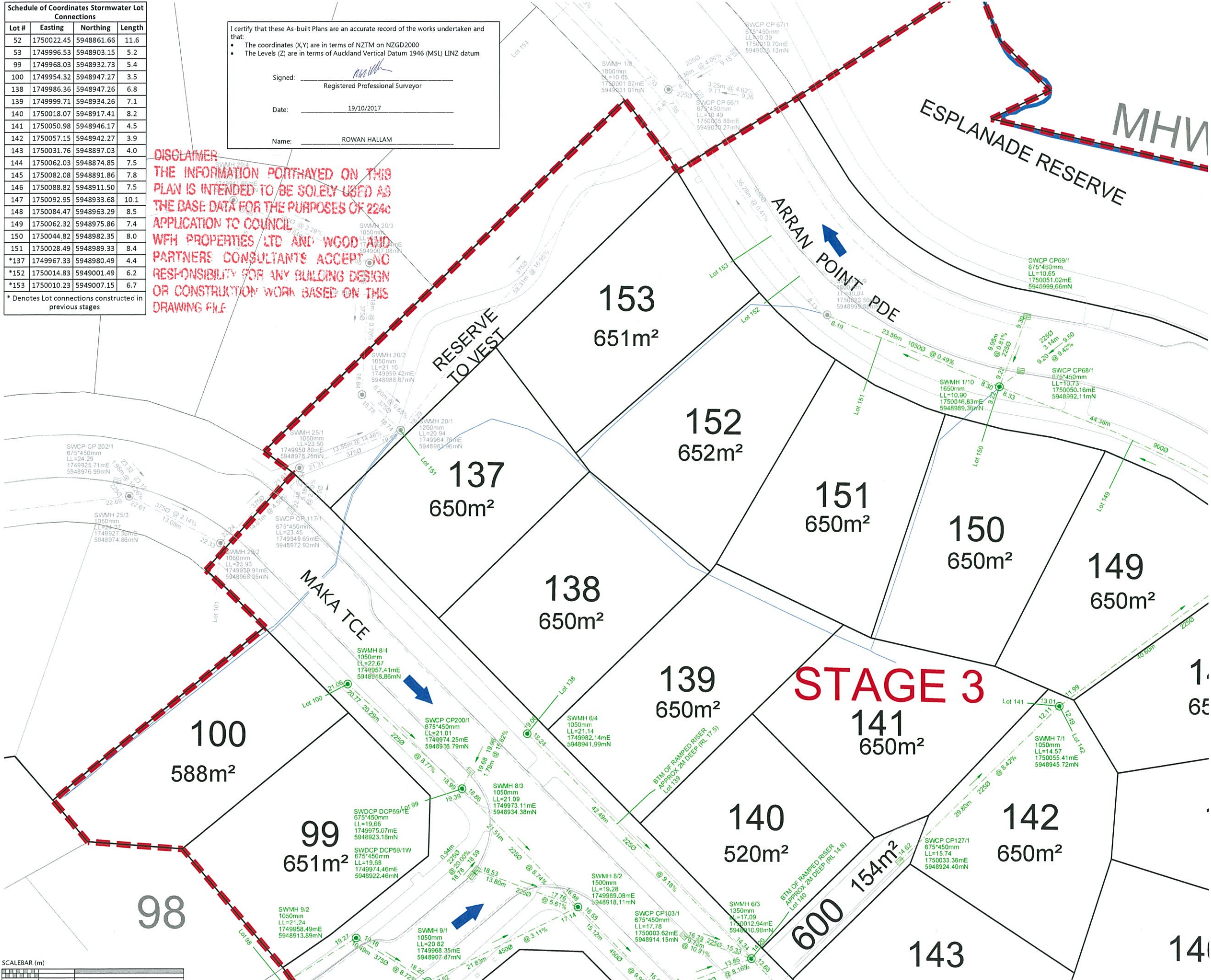
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Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: ROWAN HALLAM

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

- NOTES
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	19/10/17

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

MILLWATER ARRAN POINT STAGE 3 STORMWATER AS-BUILT SHEET 2 OF 4 (SLC-62000)		
STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-301-AB	

DISCLAIMER:
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Schedule of Coordinates Stormwater Lot Connections			
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139	1749999.71	5948934.26	7.1
140	1750018.07	5948917.41	8.2
141	1750050.98	5948946.17	4.5
142	1750057.15	5948942.27	3.9
143	1750031.76	5948897.03	4.0
144	1750062.03	5948874.85	7.5
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*137	1749967.33	5948980.49	4.4
*152	1750014.83	5949001.49	6.2
*153	1750010.23	5949007.15	6.7

* Denotes Lot connections constructed in previous stages

LEGEND

STORMWATER MANHOLE

STORMWATER CESSPIT

STORMWATER DOUBLE CESSPIT

OVERLAND FLOW

NEW STORMWATER

EXISTING STORMWATER

SUBSOIL DRAINAGE

STAGE BOUNDARY

- 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 AND PIPES UNDER THE ROAD AND CARRIAGEWAYS 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 100mm ϕ .
 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		BY	DATE
1	ISSUED FOR INFORMATION	KH	19/10/17

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

N

WFH
PROPERTIES

MILLWATER
ARRAN POINT
STAGE 3
STORMWATER AS-BUILT
SHEET 3 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-302-AB	

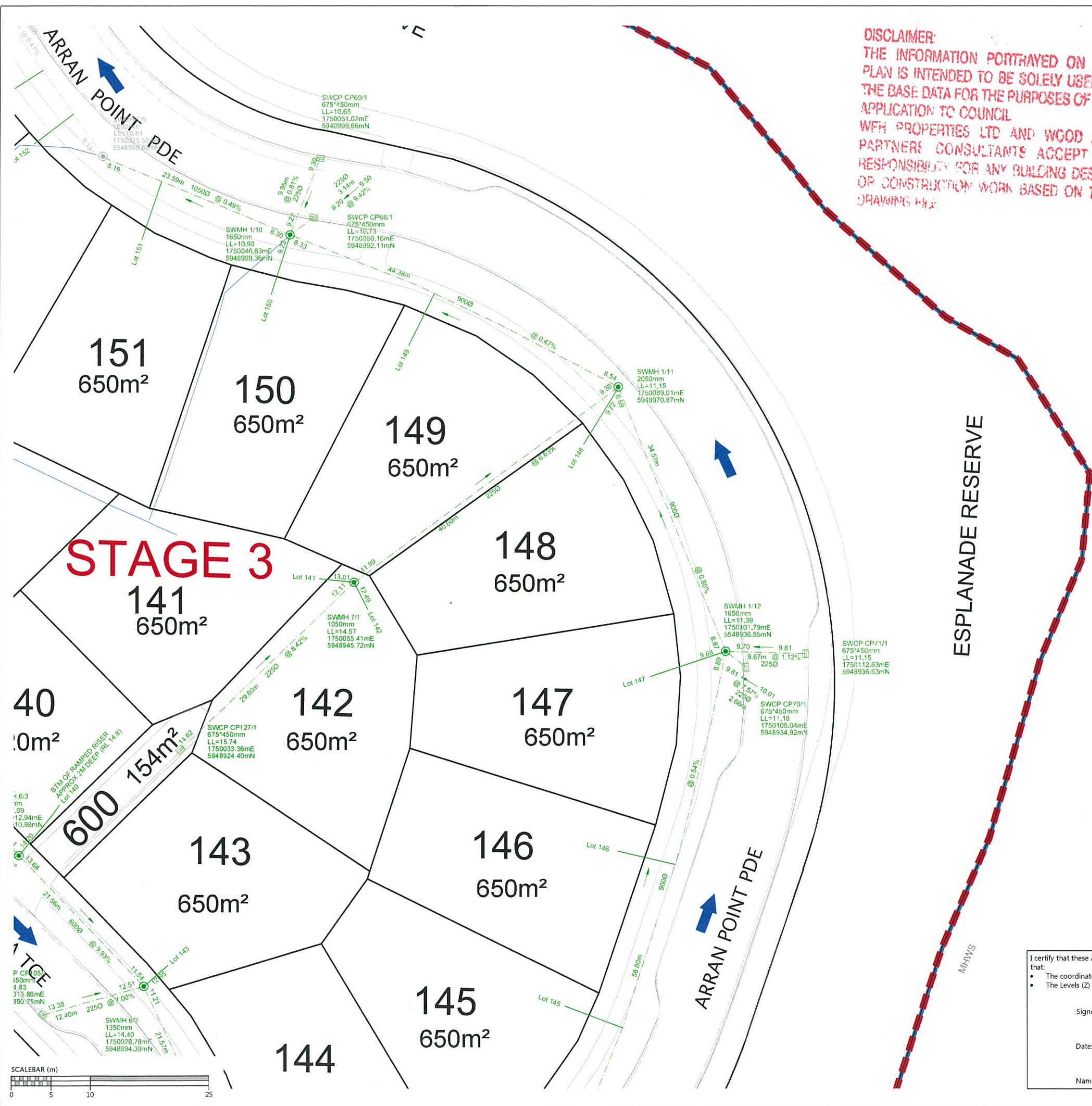
I certify that these As-built Plans are an accurate record of the works undertaken and that:

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

Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: ROWAN HALLAM



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

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AC STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL PIPE BEDDING COMPLIES WITH AC STANDARDS
 - ALL CESSPIT LEADS AND PIPES UNDER THE ROAD AND CARRIDGWAYS 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 100mm ϕ .
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	19/10/17

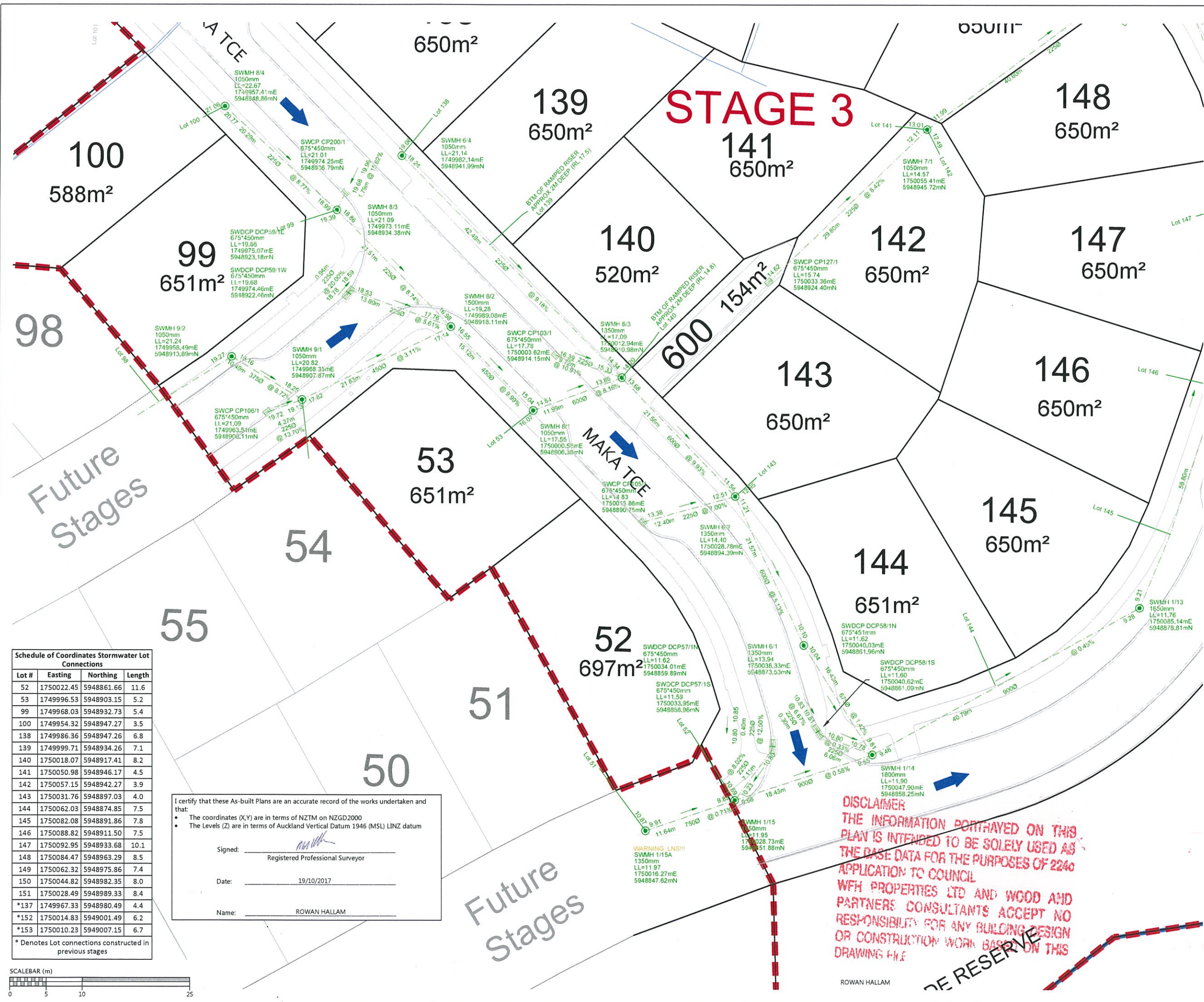
SURVEYED	WOODS	WOODS Ltd
DESIGNED	MB	LEVEL 1 BUILDING B,
DRAWN	KH	8 NUGENT STREET, GRAFTON
CHECKED	AF	AUCKLAND 1023
APPROVED	RH	09 308 9229
		WOODS.CO.NZ

	WFH PROPERTIES
--	--------------------------

**MILLWATER
ARRAN POINT
STAGE 3**

STORMWATER AS-BUILT
SHEET 4 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-303-AB	



Schedule of Coordinates Stormwater Lot Connections

Lot #	Easting	Northing	Length
52	1750022.45	5948861.66	11.6
53	1749996.53	5948903.15	5.2
99	1749968.03	5948932.73	5.4
100	1749954.32	5948947.27	3.5
138	1749986.36	5948947.26	6.8
139	1749999.71	5948934.26	7.1
140	1750018.07	5948917.41	8.2
141	1750050.98	5948946.17	4.5
142	1750057.15	5948942.27	3.9
143	1750031.76	5948897.03	4.0
144	1750062.03	5948874.85	7.5
145	1750082.08	5948891.86	7.8
146	1750088.82	5948911.50	7.5
147	1750092.95	5948933.68	10.1
148	1750084.47	5948963.29	8.5
149	1750062.32	5948975.86	7.4
150	1750044.82	5948982.35	8.0
151	1750028.49	5948989.33	8.4
*137	1749967.33	5948980.49	4.4
*152	1750014.83	5949001.49	6.2
*153	1750010.23	5949007.15	6.7

* Denotes Lot connections constructed in previous stages

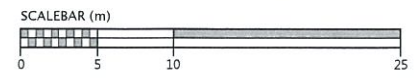
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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: 19/10/2017

Name: ROWAN HALLAM



DISCLAIMER
THE INFORMATION PORTRAYED ON THIS PLAN IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF 2240 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

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

LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER	

NOTES

1. ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
4. ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
5. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
7. ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
8. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

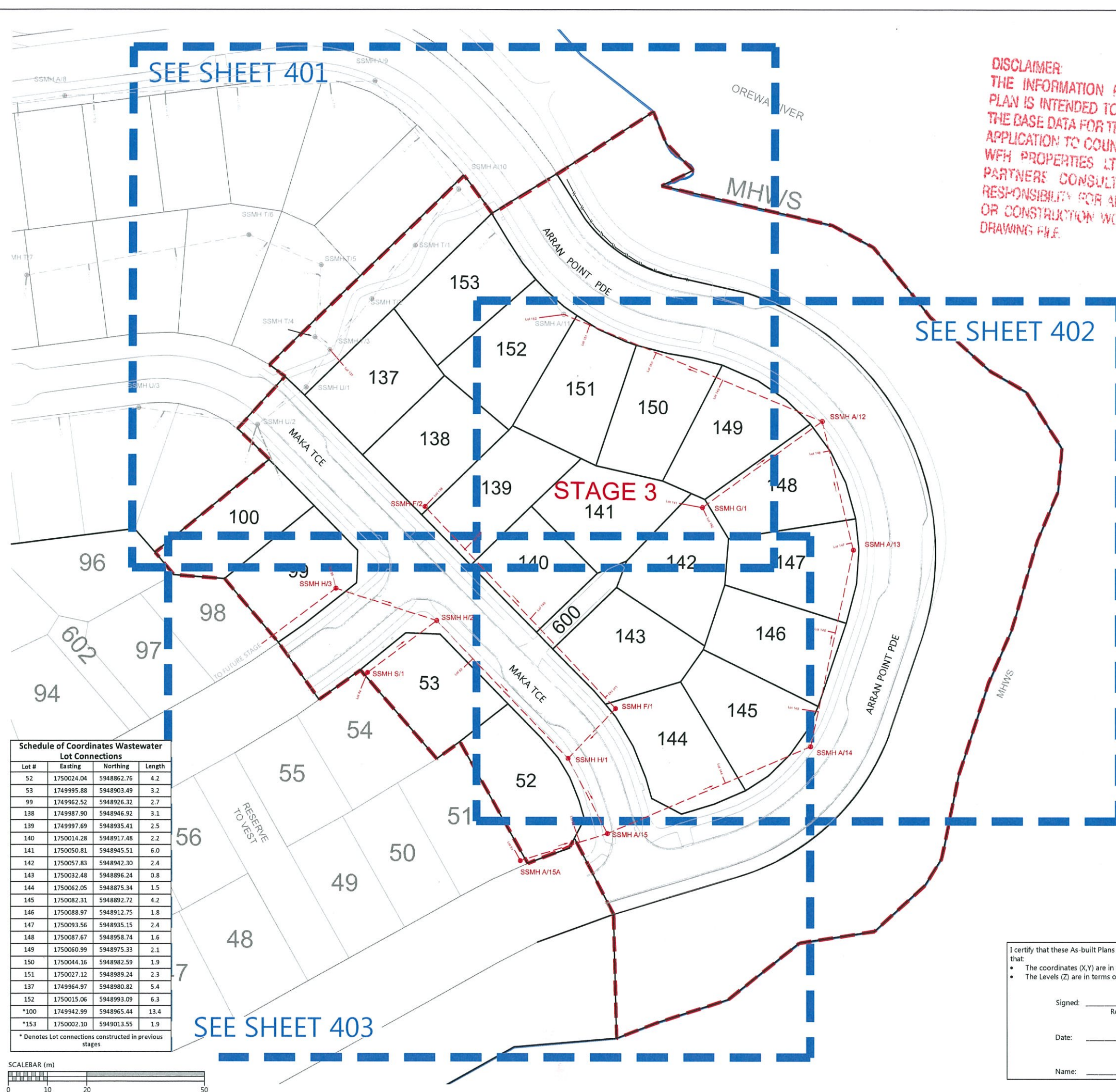
REVISION DETAILS	BY	DATE
1 ISSEUD FOR INFORMATION	KH	30/10/17

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



MILLWATER
ARRAN POINT
STAGE 3
WASTEWATER AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 4
(SLC-62000)

STATUS	AS BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-400-AB	



Schedule of Coordinates Wastewater Lot Connections

Lot #	Easting	Northing	Length
52	1750024.04	5948862.76	4.2
53	1749995.88	5948903.49	3.2
99	1749962.52	5948926.32	2.7
138	1749987.90	5948946.92	3.1
139	1749997.69	5948935.41	2.5
140	1750014.28	5948917.48	2.2
141	1750050.81	5948945.51	6.0
142	1750057.83	5948942.30	2.4
143	1750032.48	5948896.24	0.8
144	1750062.05	5948875.34	1.5
145	1750082.31	5948892.72	4.2
146	1750088.97	5948912.75	1.8
147	1750093.56	5948935.15	2.4
148	1750087.67	5948958.74	1.6
149	1750060.99	5948975.33	2.1
150	1750044.16	5948982.59	1.9
151	1750027.12	5948989.24	2.3
137	1749964.97	5948980.82	5.4
152	1750015.06	5948993.09	6.3
*100	1749942.99	5948965.44	13.4
*153	1750002.10	5949013.55	1.9

* Denotes Lot connections constructed in previous stages



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: 30/10/2017

Name: Rowan Hallam

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

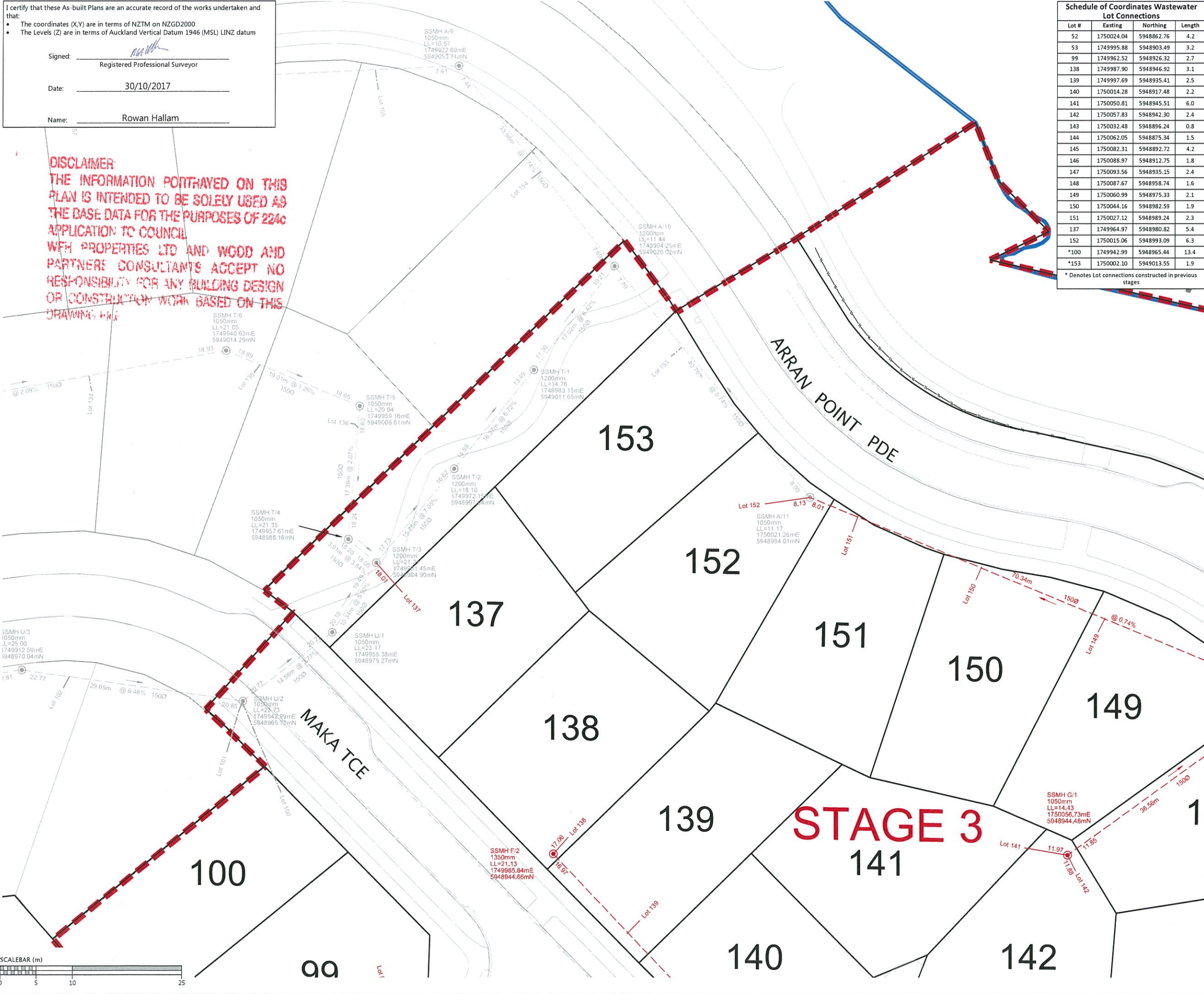
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 30/10/2017

Name: Rowan Hallam

DISCLAIMER:
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Schedule of Coordinates Wastewater Lot Connections			
Lot #	Easting	Northing	Length
52	1750024.04	5948862.76	4.2
53	1749995.88	5948903.49	3.2
99	1749962.52	5948926.32	2.7
138	1749987.90	5948946.92	3.1
139	1749997.69	5948935.41	2.5
140	1750014.28	5948917.48	2.2
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143	1750032.48	5948896.24	0.8
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148	1750087.67	5948958.74	1.6
149	1750060.99	5948975.33	2.1
150	1750044.16	5948982.59	1.9
151	1750027.12	5948989.24	2.3
137	1749964.97	5948980.82	5.4
152	1750015.06	5948993.09	6.3
*100	1749942.99	5948965.44	13.4
*153	1750002.10	5949013.55	1.9

* Denotes Lot connections constructed in previous stages

LEGEND	
NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER	

- NOTES**
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	30/10/17

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



**MILLWATER
ARRAN POINT
STAGE 3**
WASTEWATER AS-BUILT
SHEET 2 OF 4
(SLC-62000)

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-401-AB	

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

LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER	

NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	30/10/17

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



MILLWATER
ARRAN POINT
STAGE 3
WASTEWATER AS-BUILT
SHEET 3 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-402-AB	

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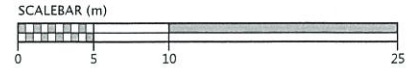
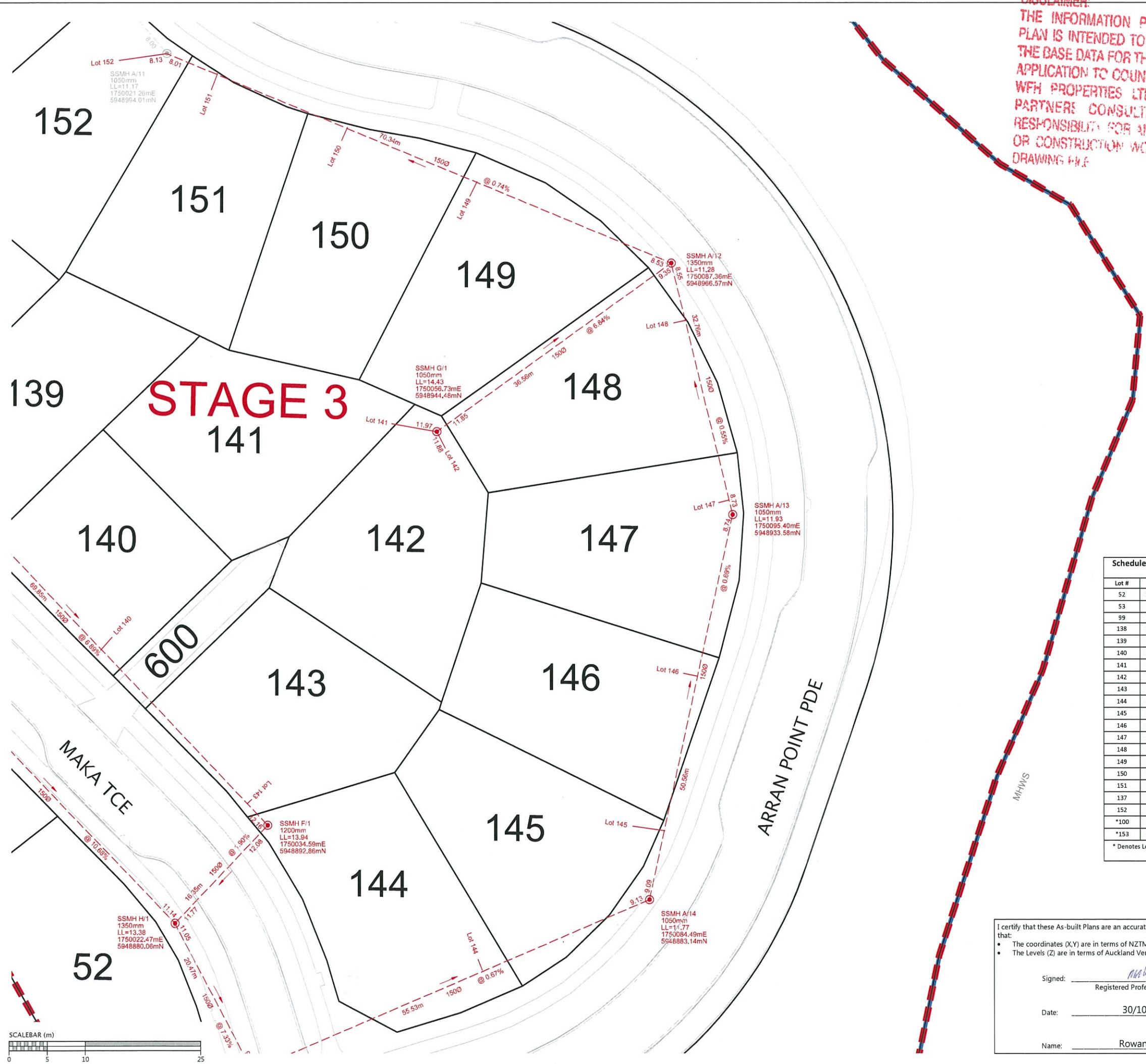
Signed: Registered Professional Surveyor

Date: 30/10/2017

Name: Rowan Hallam

Schedule of Coordinates Wastewater Lot Connections			
Lot #	Easting	Northing	Length
52	1750024.04	5948862.76	4.2
53	1749995.88	5948903.49	3.2
99	1749962.52	5948926.32	2.7
138	1749987.90	5948946.92	3.1
139	1749997.69	5948935.41	2.5
140	1750014.28	5948917.48	2.2
141	1750050.81	5948945.51	6.0
142	1750057.83	5948942.30	2.4
143	1750032.48	5948896.24	0.8
144	1750062.05	5948875.34	1.5
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151	1750027.12	5948989.24	2.3
137	1749964.97	5948980.82	5.4
152	1750015.06	5948993.09	6.3
*100	1749942.99	5948965.44	13.4
*153	1750002.10	5949013.55	1.9

* Denotes Lot connections constructed in previous stages



LEGEND

- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY SEWER

NOTES

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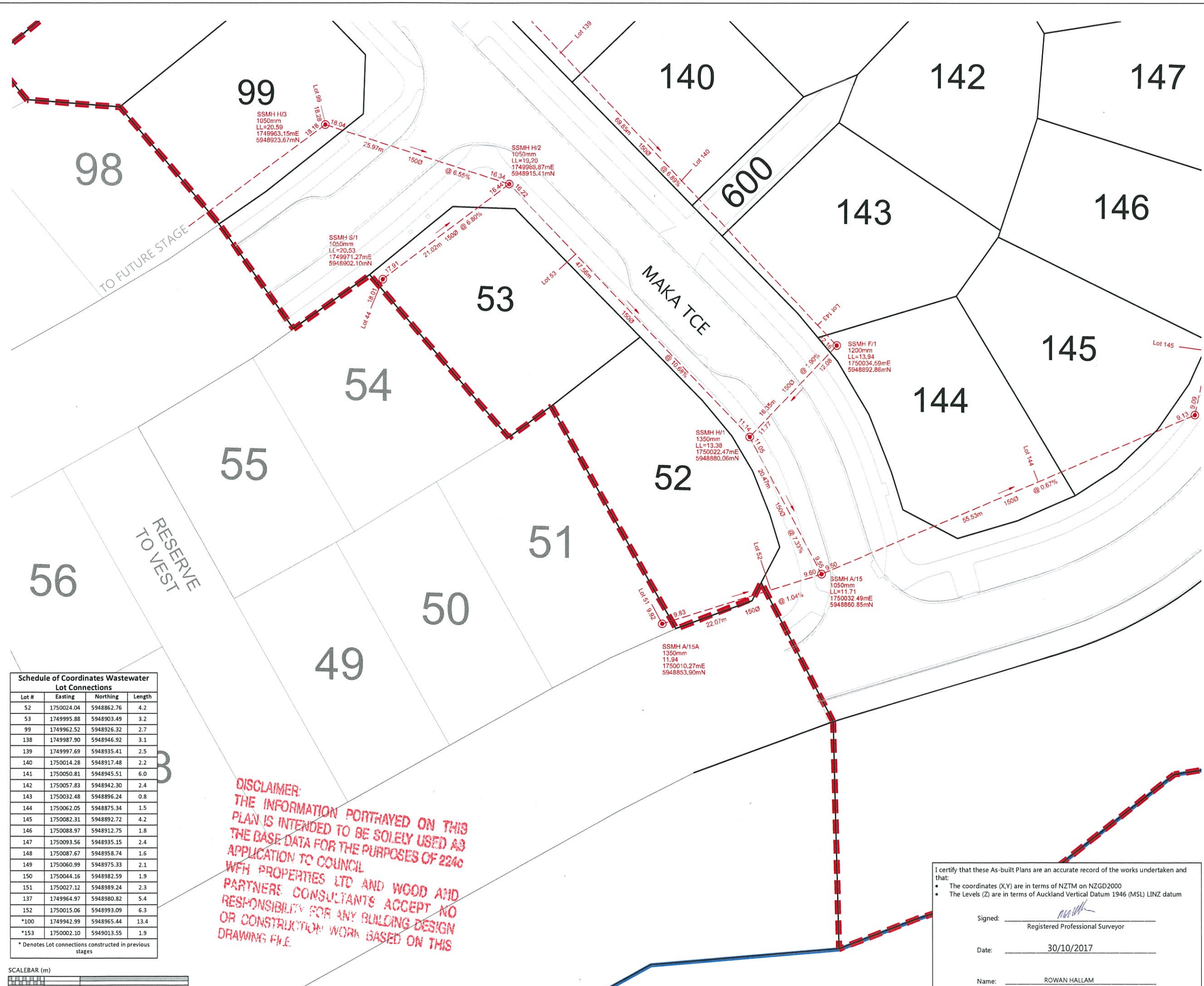
REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	30/10/17

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



MILLWATER
ARRAN POINT
STAGE 3
WASTEWATER AS-BUILT
SHEET 4 OF 4
(SLC-62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-403-AB	



Schedule of Coordinates Wastewater Lot Connections			
Lot #	Easting	Northing	Length
52	1750024.04	5948862.76	4.2
53	1749995.88	5948903.49	3.2
99	1749962.52	5948926.32	2.7
138	1749987.90	5948946.92	3.1
139	1749997.69	5948935.41	2.5
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141	1750050.81	5948945.51	6.0
142	1750057.83	5948942.30	2.4
143	1750032.48	5948896.24	0.8
144	1750062.05	5948875.34	1.5
145	1750082.31	5948892.72	4.2
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150	1750044.16	5948982.59	1.9
151	1750027.12	5948989.24	2.3
137	1749964.97	5948980.82	5.4
152	1750015.06	5948993.09	6.3
*100	1749942.99	5948965.44	13.4
*153	1750002.10	5949013.55	1.9
* Denotes Lot connections constructed in previous stages			

DISCLAIMER:
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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.

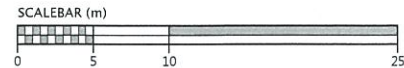
I certify that these As-built Plans are an accurate record of the works undertaken and that:

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

Signed: _____
Registered Professional Surveyor

Date: 30/10/2017

Name: ROWAN HALLAM



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APPLICATION TO COUNCIL
WFH PROPERTIES LTD AND WOOD AND
PARTNERS CONSULTANTS ACCEPT NO
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OR CONSTRUCTION WORK BASED ON THIS
DRAWING FILE.

NOTES

1. ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
2. PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
3. WATERMAINS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
4. ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
5. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
6. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
7. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

LEGEND

- EXISTING WATERMAIN ———
- HIGH PRESSURE WATERMAIN ———
- SLUICE VALVE 
- PEET VALVE 
- FIRE HYDRANT 
- BLANK CAP 
- STAGE BOUNDARY 

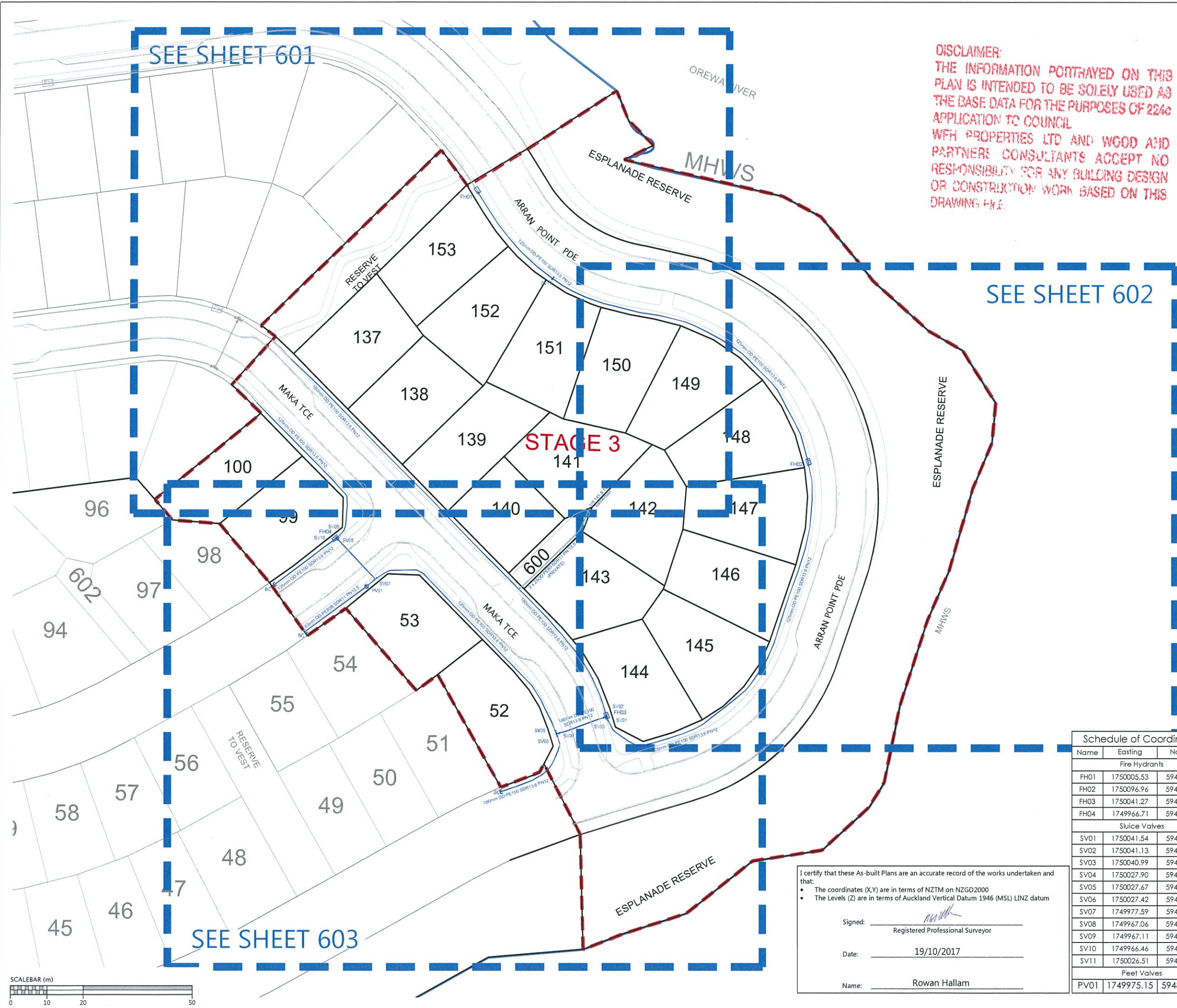
REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	16/10/17

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




MILLWATER ARRAN POINT STAGE 3 WATERMAIN AS-BUILT SHEET 1 OF 4 (SLC - 62000)

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-600-AB	



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

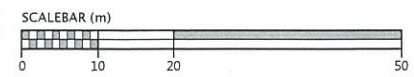
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: 
Registered Professional Surveyor

Date: 19/10/2017

Name: Rowan Hallam

Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH01	1750005.53	5949018.43
FH02	1750096.96	5948943.28
FH03	1750041.27	5948873.00
FH04	1749966.71	5948922.02
Sluice Valves		
SV01	1750041.54	5948872.16
SV02	1750041.13	5948873.37
SV03	1750040.99	5948872.55
SV04	1750027.90	5948868.07
SV05	1750027.67	5948867.68
SV06	1750027.42	5948868.45
SV07	1749977.59	5948910.83
SV08	1749967.06	5948922.02
SV09	1749967.11	5948922.38
SV10	1749966.46	5948921.85
SV11	1750026.51	5948994.14
Peet Valves		
PV01	1749975.15	5948908.76



Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH01	1750005.53	5949018.43
FH02	1750096.96	5948943.28
FH03	1750041.27	5948873.00
FH04	1749966.71	5948922.02
Sluice Valves		
SV01	1750041.54	5948872.16
SV02	1750041.13	5948873.37
SV03	1750040.99	5948872.55
SV04	1750027.90	5948868.07
SV05	1750027.67	5948867.68
SV06	1750027.42	5948868.45
SV07	1749977.59	5948910.83
SV08	1749967.06	5948922.02
SV09	1749967.11	5948922.38
SV10	1749966.46	5948921.85
SV11	1750026.51	5948994.14
Peel Valves		
PV01	1749975.15	5948908.76

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

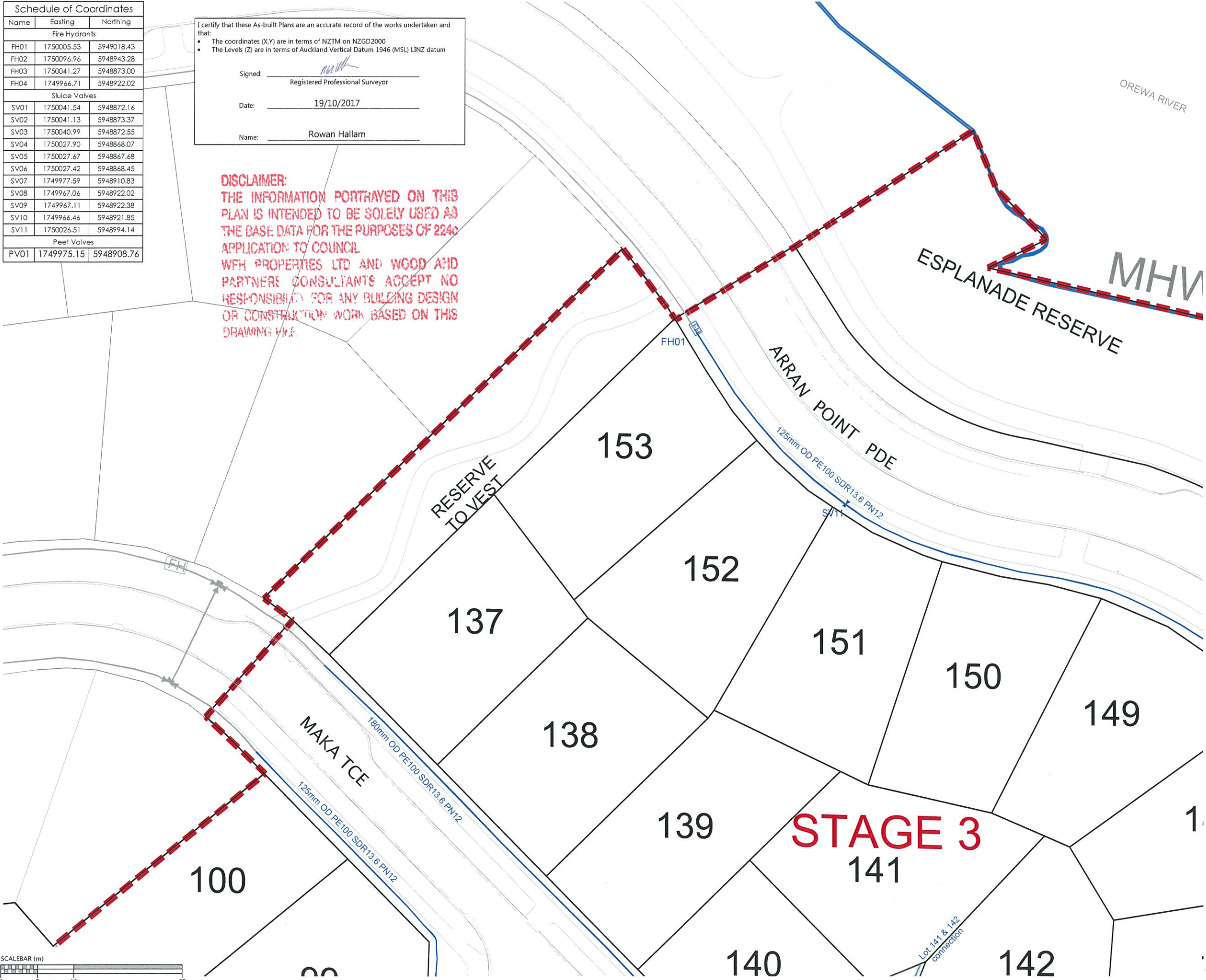
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: Rowan Hallam

DISCLAIMER:
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- NOTES**
- ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - PIPE BEDDING COMPLIES WITH AC STD DETAIL DRAWING 18000 SHEET 4.4 UNLESS OTHERWISE NOTED.
 - WATERMAINS ARE AN AVERAGE 0.6m BELOW GROUND IN BERMS AND 0.9m BELOW GROUND UNDER ROADS. HARDFILL BACKFILLED BENEATH ROAD CROSSINGS.
 - ALL PIPES ARE LAID 1.4m OFF THE ROAD RESERVE BOUNDARY IN THE COMMON SERVICE TRENCH.
 - PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

LEGEND

EXISTING WATERMAIN	—
HIGH PEASURE WATERMAIN	—
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
BLANK CAP	
STAGE BOUNDARY	---

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	16/10/17

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

**MILLWATER
ARRAN POINT
STAGE 3**

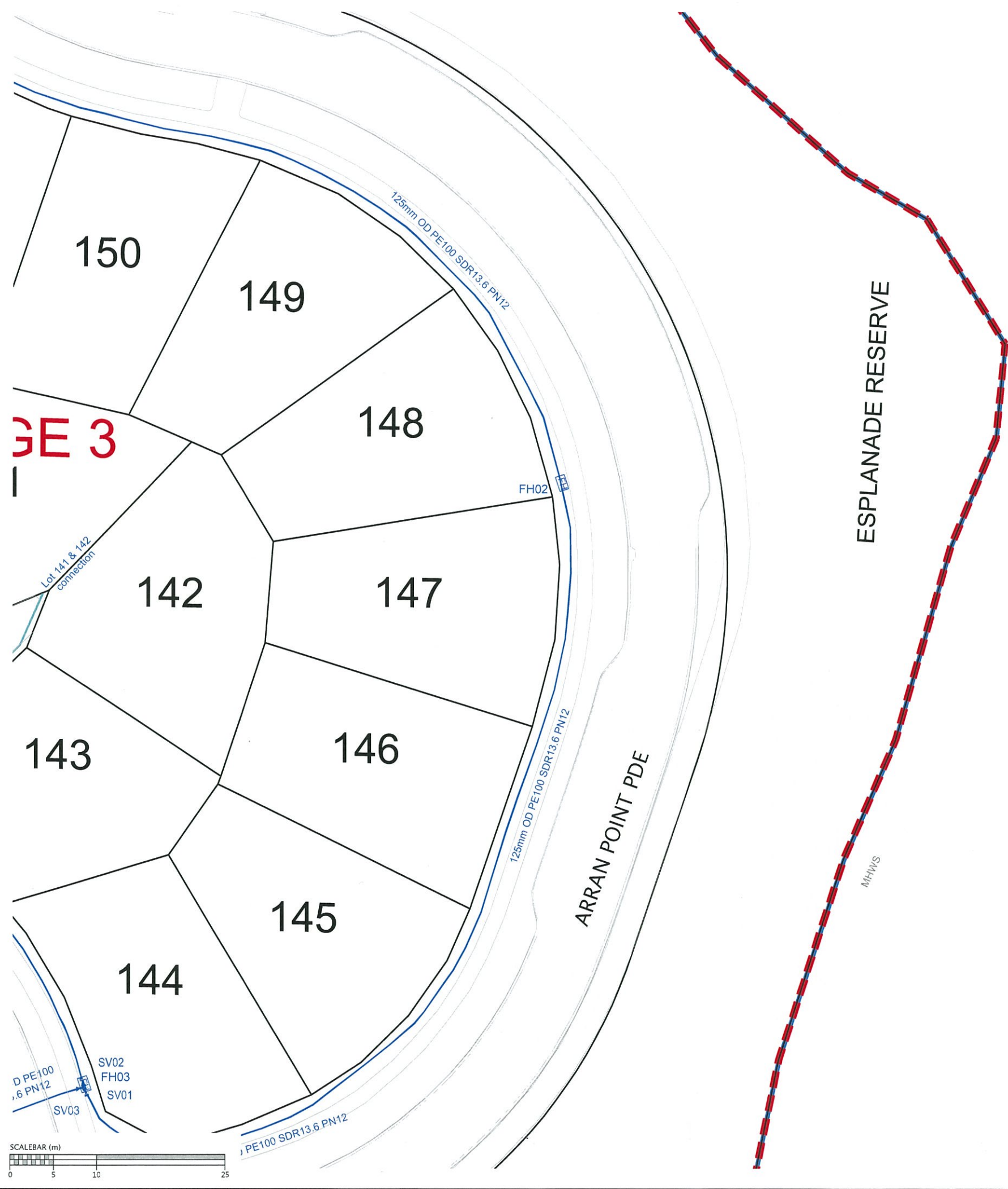
WATERMAIN AS-BUILT
SHEET 2 OF 4
(SLC - 62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-601-AB	





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LEGEND

EXISTING WATERMAIN ———

HIGH PEASURE WATERMAIN ———

SLUICE VALVE

PEET VALVE

FIRE HYDRANT

BLANK CAP

STAGE BOUNDARY - - - - -

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KH	16/10/17

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

MILLWATER
ARRAN POINT
STAGE 3

WATERMAIN AS-BUILT
SHEET 3 OF 4
(SLC - 62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-602-AB	

Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH01	1750005.53	5949018.43
FH02	1750096.96	5948943.28
FH03	1750041.27	5948873.00
FH04	1749966.71	5948922.02
Sluice Valves		
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SV11	1750026.51	5948994.14
Peet Valves		
PV01	1749975.15	5948908.76

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Signed: _____
Registered Professional Surveyor

Date: 19/10/2017

Name: Rowan Hallam

Document No. K3.37003 - ARRAN HILL - PRECINCT 7 STAGE 3 DRAWINGS SURV ASBUILT 37003-03-602-AB WATERMAIN.DWG

NOTES

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LEGEND

EXISTING WATERMAIN	—
HIGH PESSURE WATERMAIN	—
SLUICE VALVE	⋈
PEET VALVE	⊕
FIRE HYDRANT	[FH]
BLANK CAP]
STAGE BOUNDARY	- - -

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KH	16/10/17

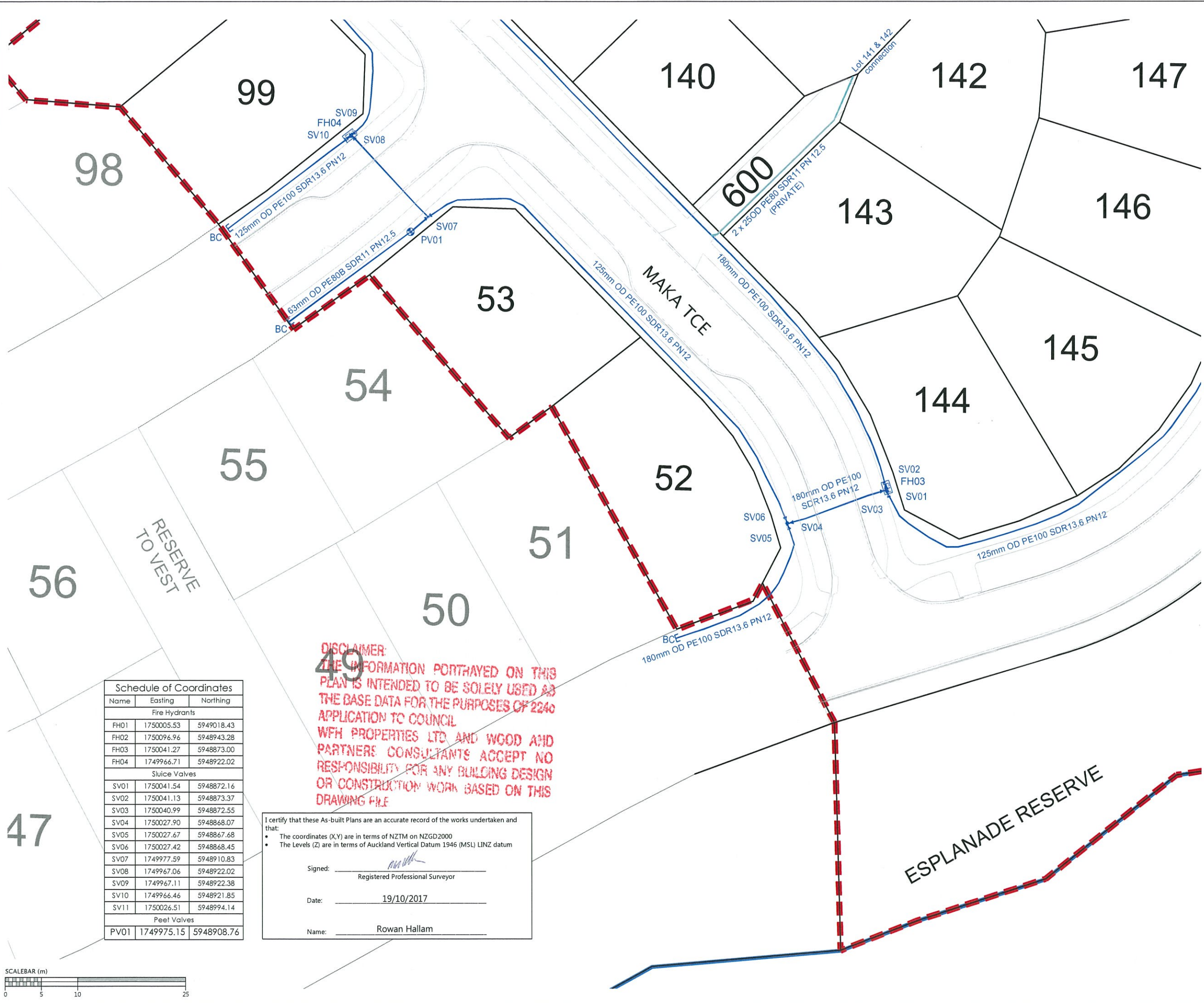
SURVEYED	WOODS	WOODS Ltd
DESIGNED	MB	LEVEL 1 BUILDING B,
DRAWN	KH	8 NUGENT STREET, GRAFTON
CHECKED	AF	AUCKLAND 1023
APPROVED	RH	09 308 9229
		WOODS.CO.NZ



MILLWATER
ARRAN POINT
STAGE 3

WATERMAIN AS-BUILT
SHEET 4 OF 4
(SLC - 62000)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03-603-AB	



DISCLAIMER:
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APPLICATION TO COUNCIL
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