

CLIENT:



COUNCIL:

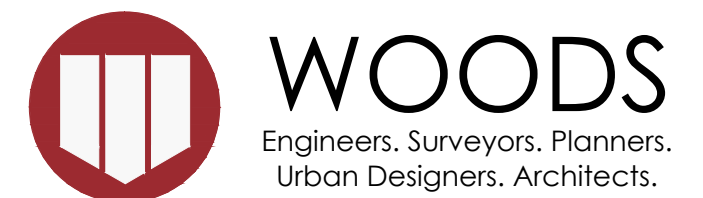


MILLWATER - ARRAN HILL

STAGE 3A

ASBUILTS DRAWINGS

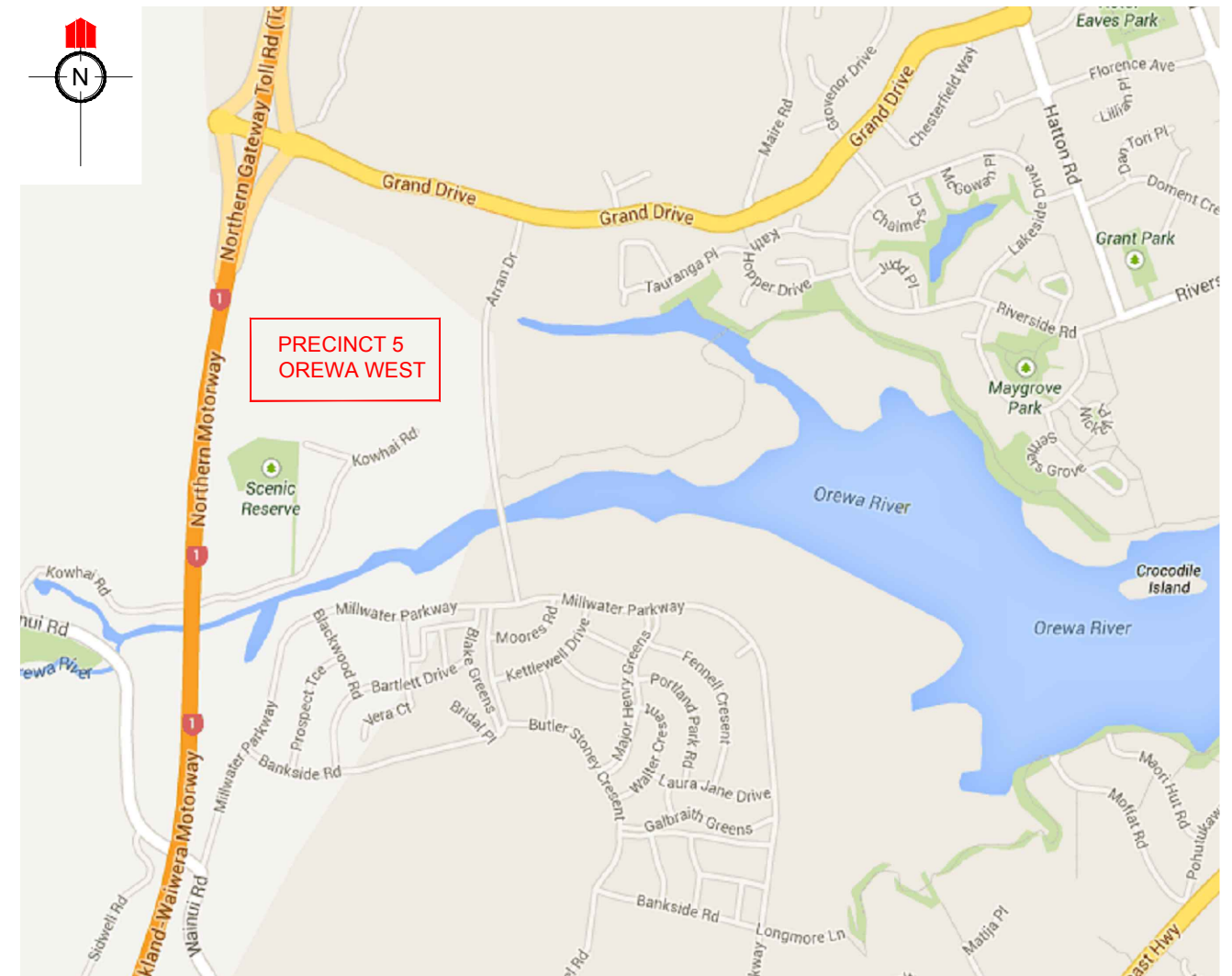
September 2018



MILLWATER - ARRAN HILL STAGE 3A

CONTENT INDEX AND LOCALITY PLAN

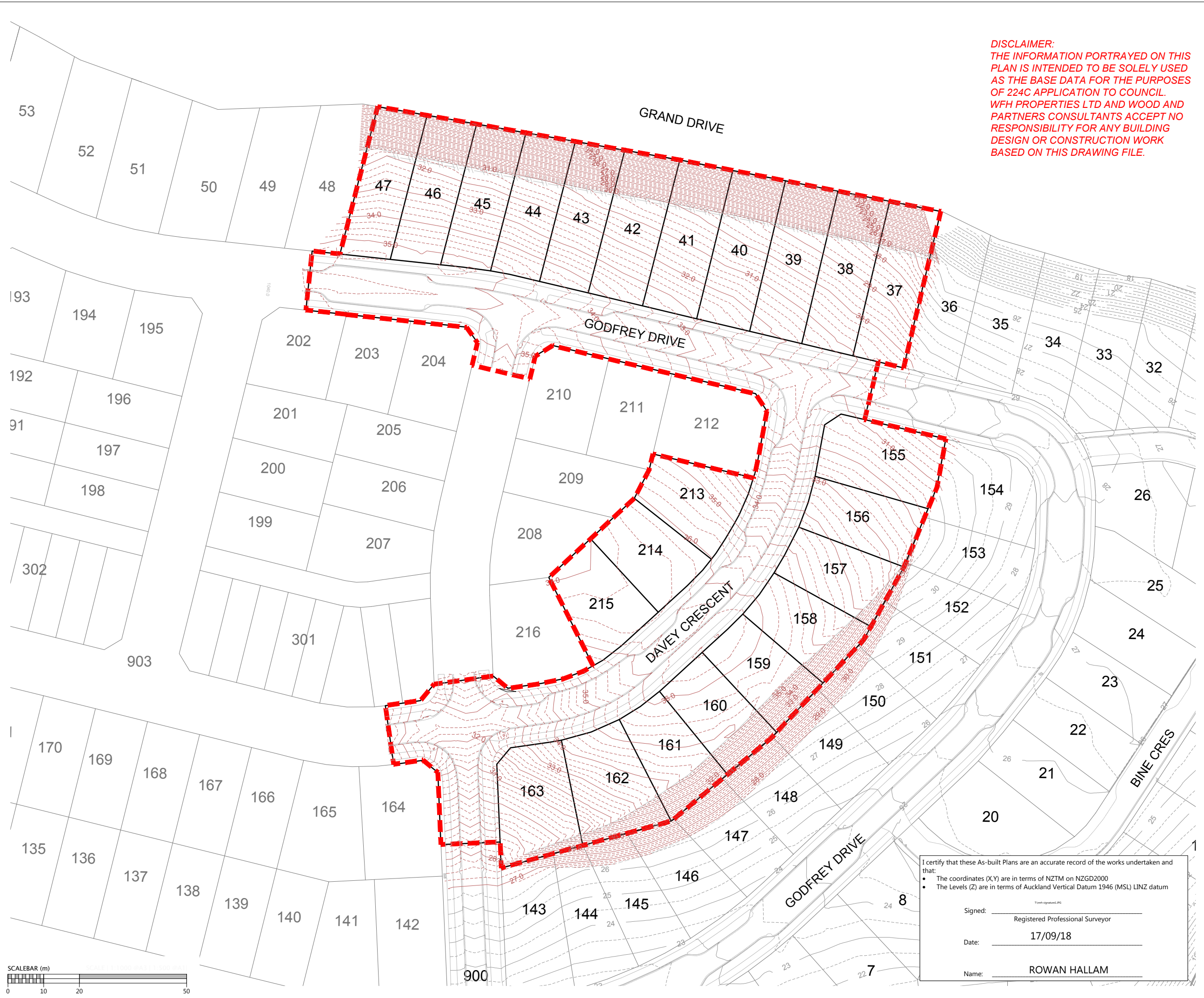
SHEET NO.		SHEET TITLE
37503-03A-	000	Plans Index and Location Plan
37503-03A-	100	Final Contour Asbuilt Plan
37503-03A-	110-112	Cut & Fill Asbuilt Original to Final Surface
37503-03A-	120	Shear Key, Undercuts & Subsoil Drains Asbuilt Plan
37503-03A-	140	Deadman and RE Slope Stabilisation
37503-03A-	200-202	Roading Asbuilt Plans
37503-03A-	300-302	Stormwater Asbuilt Plans
37503-03A-	400-402	Sanitary Sewer Asbuilt Plans
37503-03A-	600-602	Watermain Asbuilt Plans



LOCATION PLAN

NOT TO SCALE

DISCLAIMER:
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NOTES
 1. NEW CONTOURS ARE AT 0.25m INTERVALS

LEGEND

	CONTOURS MAJOR
	CONTOURS MINOR
	EXISTING CONTOURS MAJOR
	EXISTING CONTOURS MINOR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	17/09/18

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	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 5
 FINAL CONTOUR
 ASBUILT PLAN
 SHEET 1 OF 1
 (SLC - 66650)**

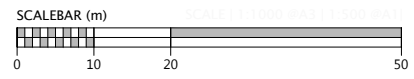
I certify that these As-built Plans are an accurate record of the works undertaken and that:

- 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

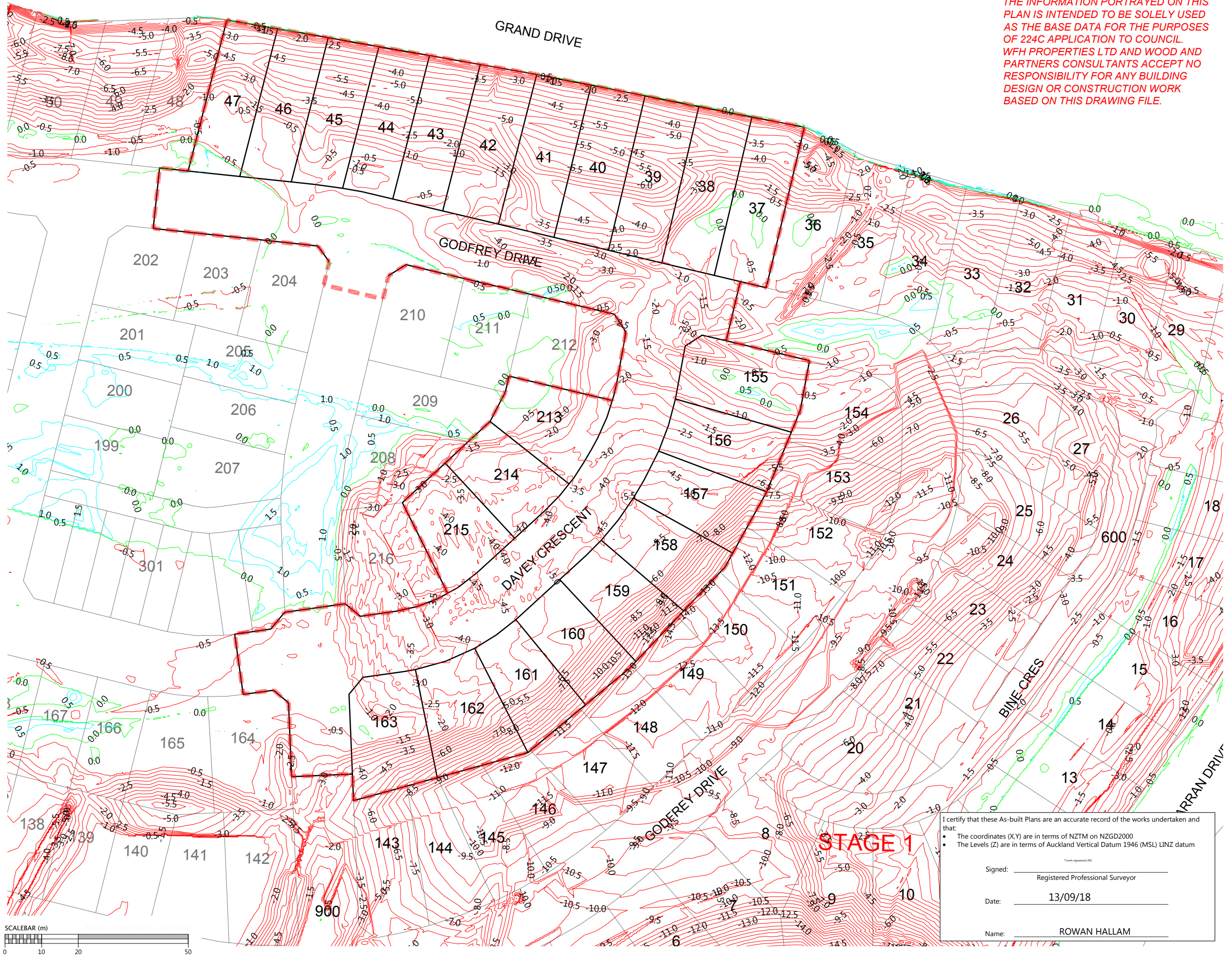
Signed: _____
 Registered Professional Surveyor

Date: 17/09/18

Name: ROWAN HALLAM



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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	10/09/18

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DESIGNED	T&T	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	

N

**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 3A**

**CUT & FILL AS-BUILT
 ORIGINAL TO LOWEST SURFACE
 (SLC-66650)**

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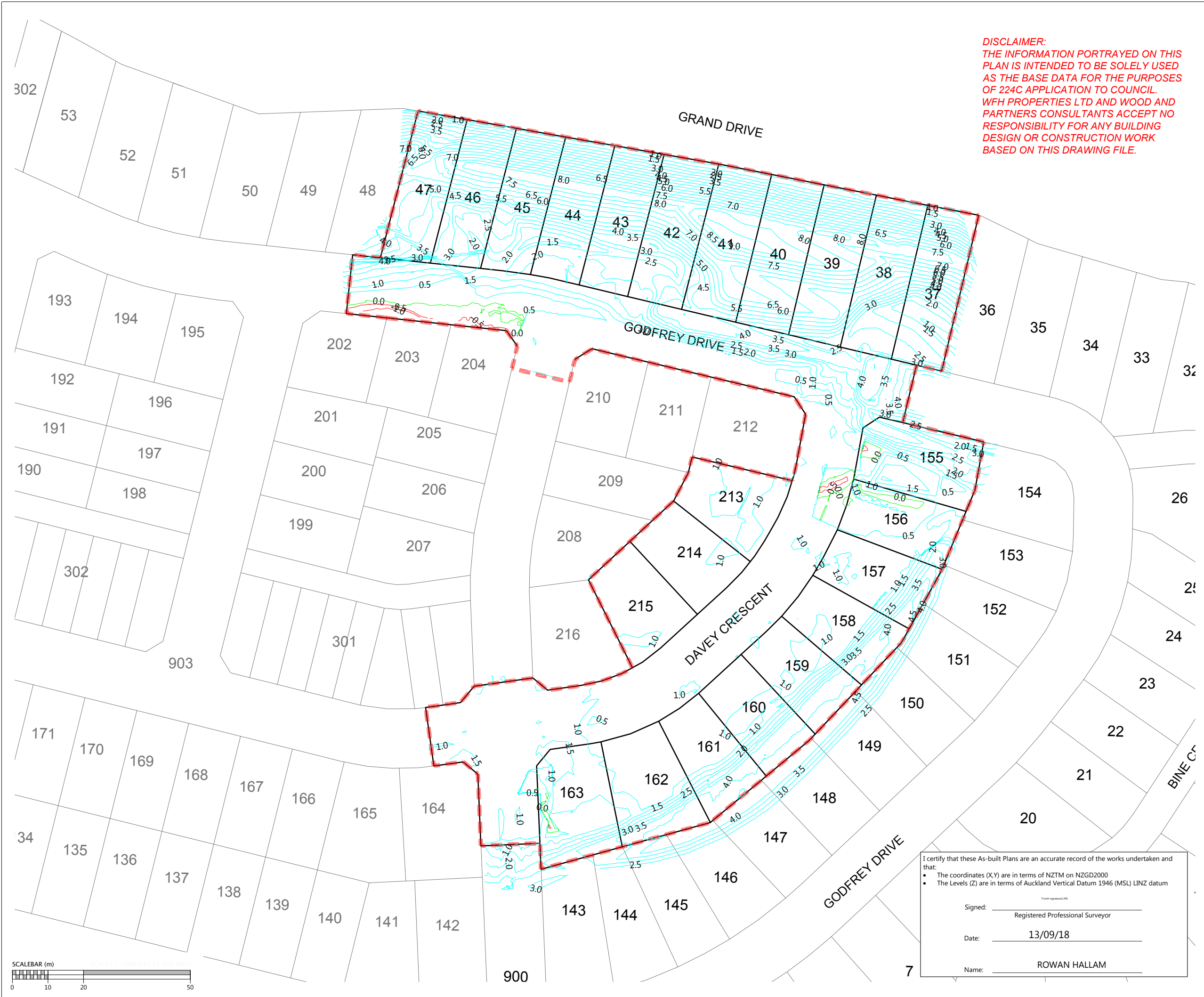
Signed: _____
 Registered Professional Surveyor

Date: 13/09/18

Name: ROWAN HALLAM



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NOTES

- 1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

- ZERO CONTOUR (Green line)
- CUT CONTOUR (Red line)
- FILL CONTOUR (Cyan line)
- STAGE BOUNDARIES (Red dashed line)
- LOT BOUNDARIES (Black solid line)

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	10/09/18

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DESIGNED	MB	
DRAWN	KR	
CHECKED	AF	
APPROVED	RH	

N

**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 3A**

**CUT & FILL AS-BUILT
 LOWEST TO FINAL SURFACE
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-111-AB	

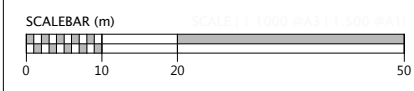
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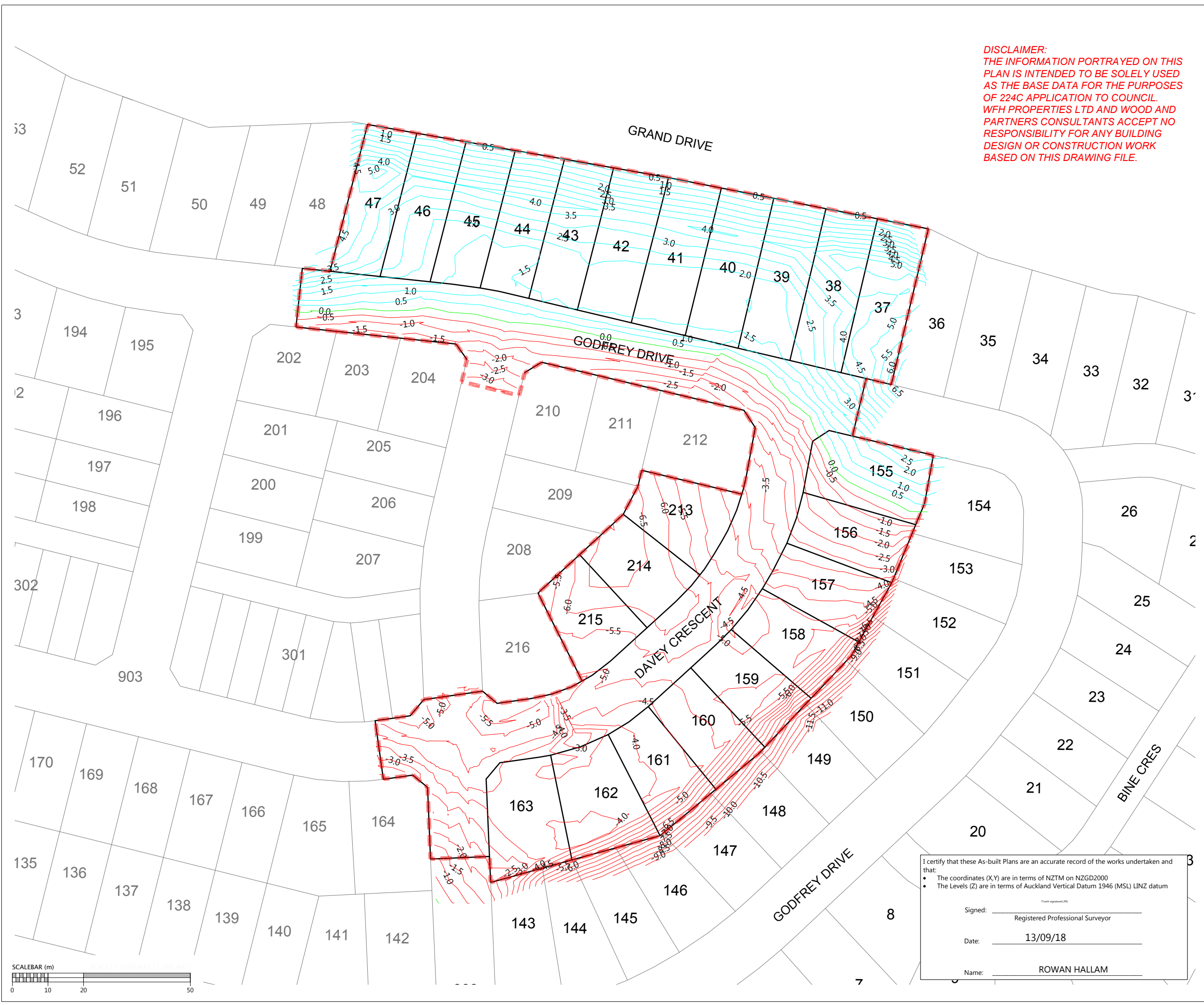
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NOTES
 1. CONTOURS ARE AT 0.5 METRE INTERVALS

LEGEND

	ZERO CONTOUR
	CUT CONTOUR
	FILL CONTOUR
	STAGE BOUNDARIES
	LOT BOUNDARIES

REVISION DETAILS	BY	DATE
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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	AF	
APPROVED	RH	

N

**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 3A**

**CUT & FILL AS-BUILT
 ORIGINAL TO FINAL SURFACE
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-112-AB	

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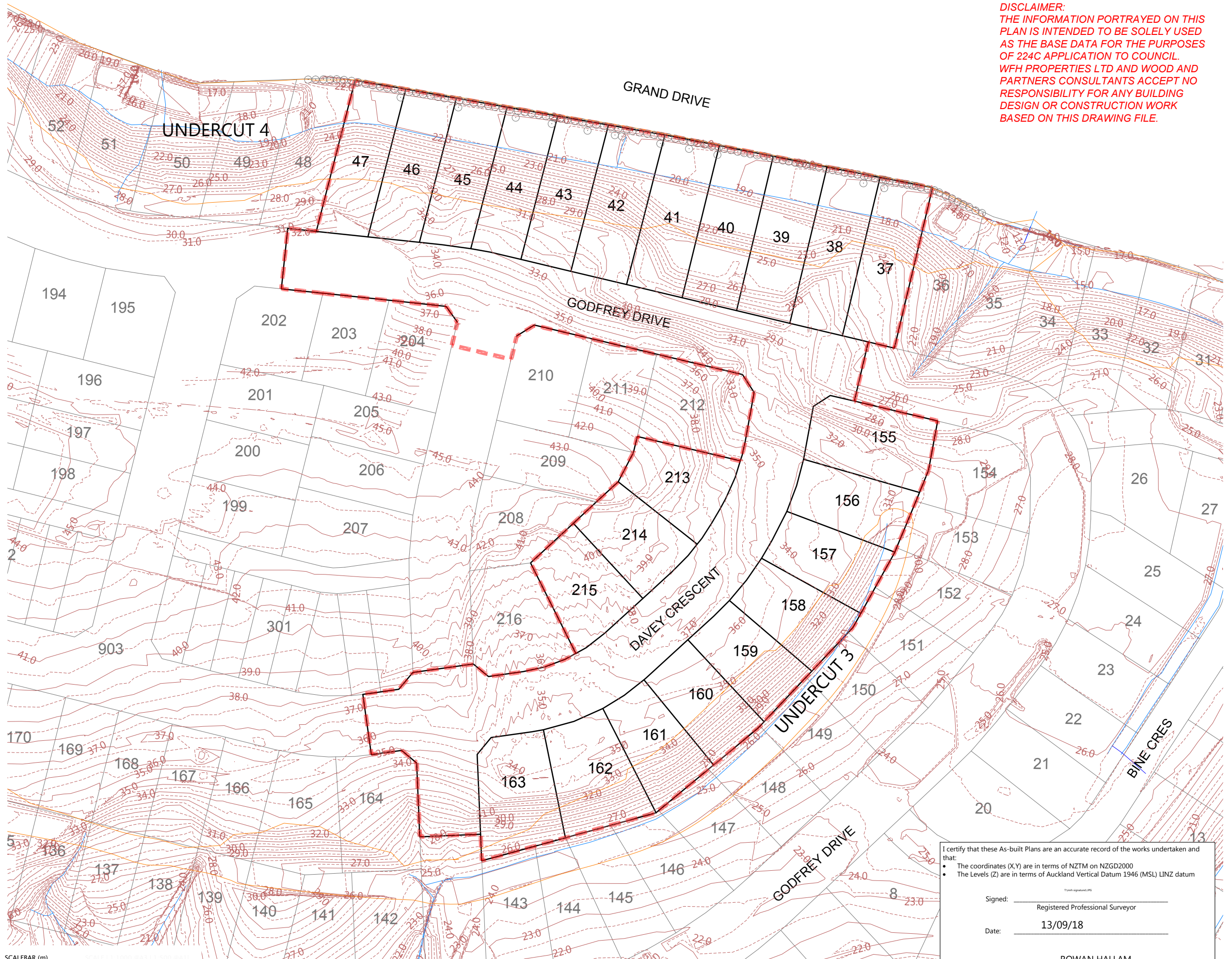
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NOTES

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

LEGEND

- NOVACOIL SUBSOIL DRAINS
- UPVC SUBSOIL DRAINS
- EXISTING STORMWATER DRAINAGE
- NEW STORMWATER DRAINAGE
- STAGE BOUNDARIES
- LOT BOUNDARIES
- CONTOURS
- SHEAR KEY & UNDERCUT AREAS
- PALISADE WALL PILE AT BOTTOM OF SHEARKEY

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	10/09/18

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	

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**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 3A
 SHEAR KEY, UNDERCUT
 AND SUBSOIL DRAIN ASBUILT
 SHEET 1 OF 1
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-120-AB	

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

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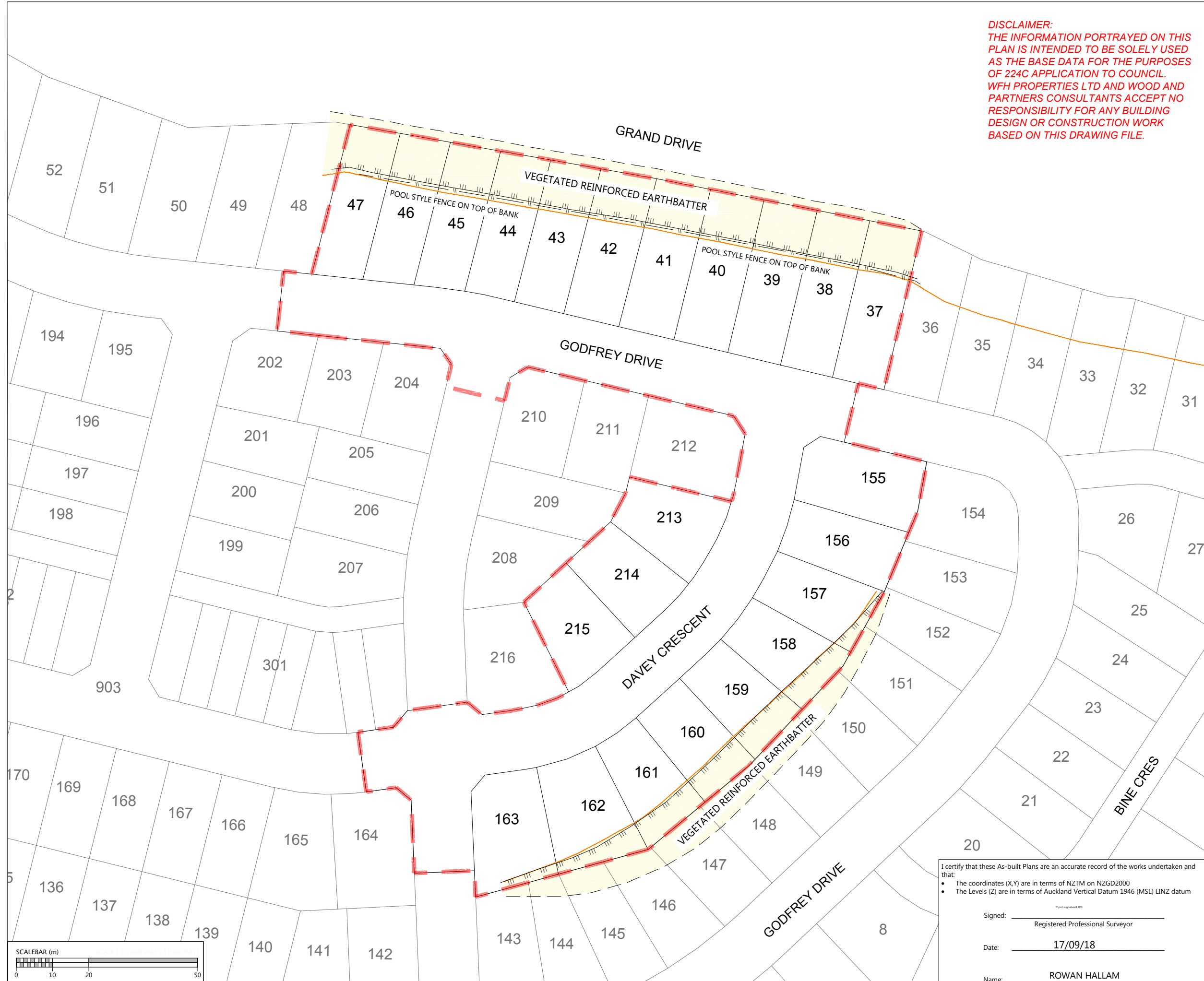
Signed: _____
 Registered Professional Surveyor

Date: 13/09/18

Name: ROWAN HALLAM



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LEGEND:

- BOUNDARY
- DEADMAN
- SLOPE STABILISATION DEVICE
- TOP OF BANK
- BOTTOM OF BANK
- FENCE

- NOTES:**
- DEADMAN LOCATION PROVIDED BY CONTRACTOR. LOT OWNER TO LOCATE AND PROTECT DEADMAN POSITION PRIOR TO ANY WORKS.
 - THE DIMENSIONS PROVIDED ARE A BEST FIT APPROXIMATION BASED ON LOCATIONS PROVIDED BY THE CONTRACTOR.

DISCLAIMER:
 THIS DRAWING IS INTENDED TO BE SOLELY USED AS THE BASE DATA FOR THE PURPOSES OF THE CLIENT. WOODS ACCEPT NO RESPONSIBILITY FOR ANY SUBSEQUENT WORKS CARRIED OUT IN THIS AREA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	17/09/18

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

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**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 3A**

**REINFORCED EARTH BATTER
 & SLOPE STABILISATION
 PLAN**

STATUS	INFORMATION	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37003-03A-140-AB	

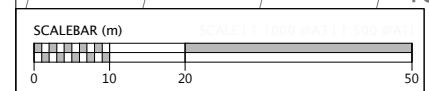
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

Date: 17/09/18

Name: ROWAN HALLAM



Schedule of Coordinates Street Trees			
Tree #	Easting	Northing	Tree Type
ST01	1749259.6	5949401.2	Puhutakawa Mistral
ST03	1749300.5	5949383.9	
ST04	1749327.6	5949377.5	
ST05	1749353.6	5949379.9	
ST06	1749369.0	5949376.2	
ST07	1749378.6	5949365.5	
ST08	1749354.2	5949347.5	
ST09	1749350.2	5949335.1	Liquidambar
ST10	1749336.3	5949326.3	
ST11	1749335.6	5949312.1	
ST12	1749323.6	5949300.6	
ST13	1749314.2	5949303.1	
ST14	1749302.2	5949283.0	
ST15	1749278.2	5949276.0	
ST16	1749238.7	5949278.5	Cercis Canadensis
ST02	1749266.6	5949378.3	
ST17	1749257.6	5949248.1	
ST18	1749265.0	5949249.2	

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Signed: _____
Registered Professional Surveyor

Date: 17/09/18

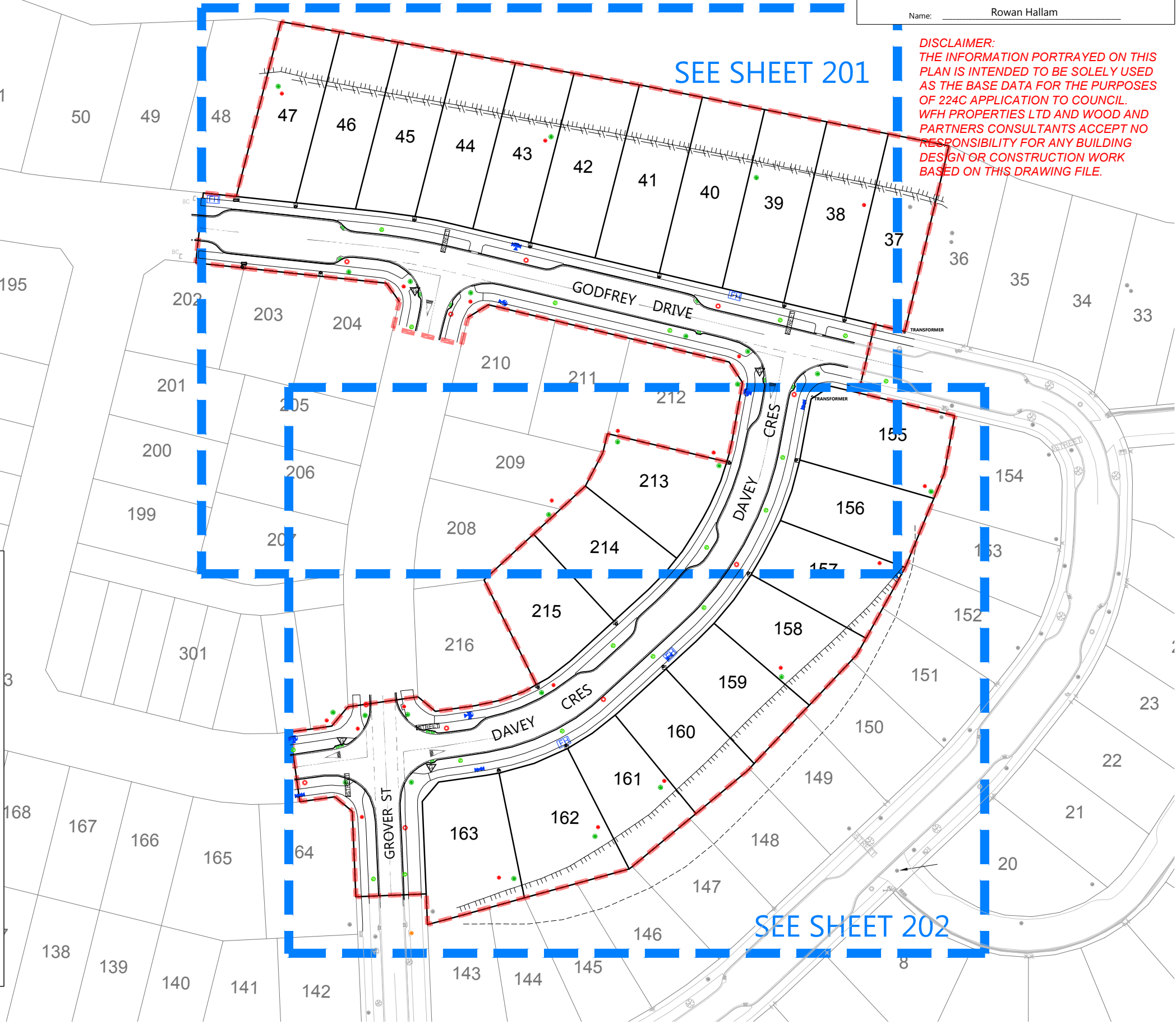
Name: Rowan Hallam

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- 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.
 - STREET LIGHT POSITIONS SHOWN ARE SURVEYED LOCATIONS OF CABLES AND WILL BE UPDATE FOLLOWING INSTALLATION OF STREET LIGHTS.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

LEGEND

- STREET LIGHT CABLE POSITION
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- CHORUS TELECOM LID
- TELECOMMUNICATIONS MANHOLE
- POWER BOX
- POOL STYLE FENCE
- TOP OF VEGETATED EARTH BATTER
- BOTTOM OF VEGETATED EARTH BATTER



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	17/09/18

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DESIGNED	MB	
DRAWN	KH	
CHECKED	KR	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 3A
ROADING AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 3
(SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-200-AB	

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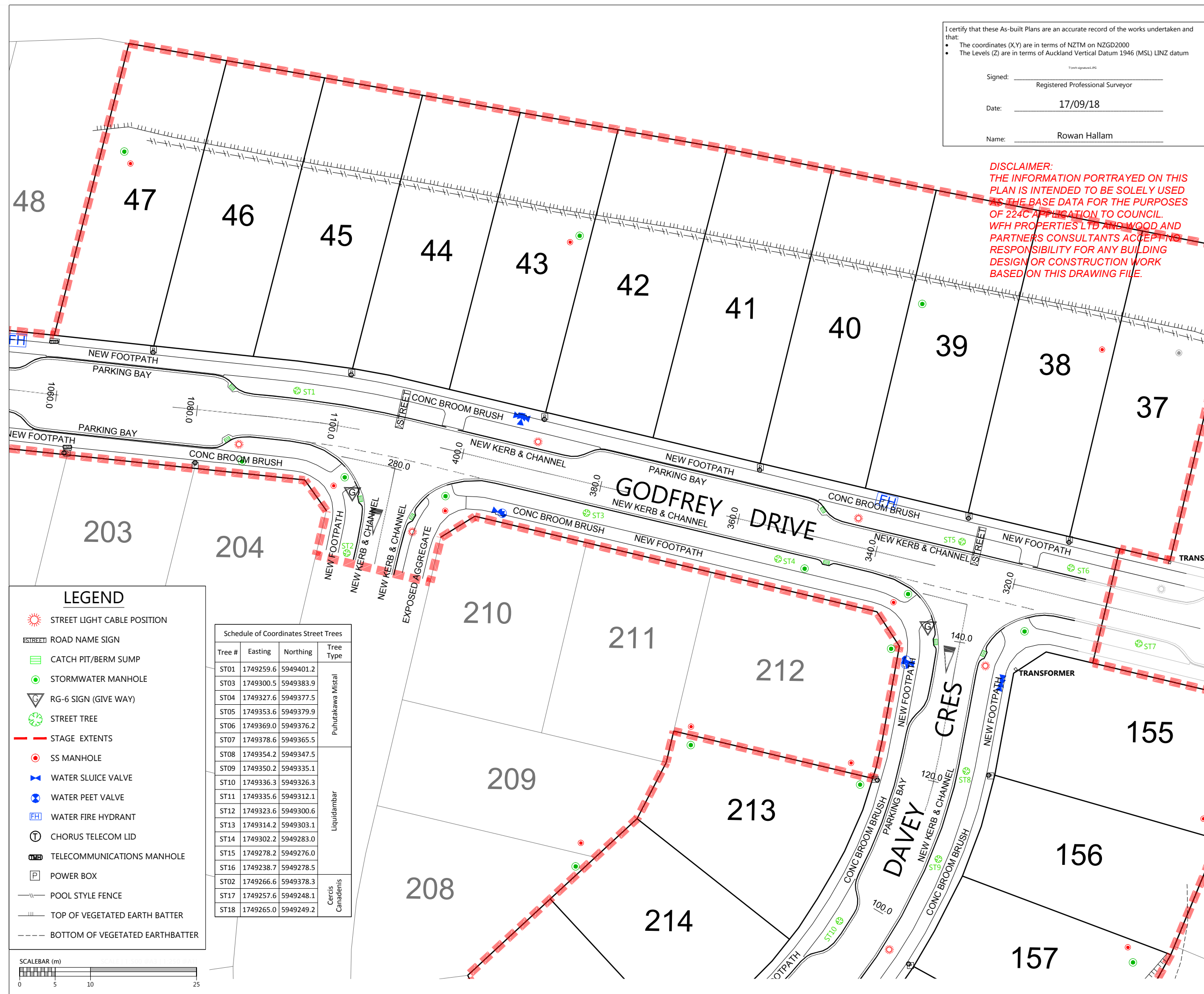
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Registered Professional Surveyor

Date: 17/09/18

Name: Rowan Hallam

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 - 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.
 - STREET LIGHT POSITIONS SHOWN ARE SURVEYED LOCATIONS OF CABLES AND WILL BE UPDATE FOLLOWING INSTALLATION OF STREET LIGHTS.
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.



LEGEND

- STREET LIGHT CABLE POSITION
- ROAD NAME SIGN
- CATCH PIT/BERM SUMP
- STORMWATER MANHOLE
- RG-6 SIGN (GIVE WAY)
- STREET TREE
- STAGE EXTENTS
- SS MANHOLE
- WATER SLUICE VALVE
- WATER PEET VALVE
- WATER FIRE HYDRANT
- CHORUS TELECOM LID
- TELECOMMUNICATIONS MANHOLE
- POWER BOX
- POOL STYLE FENCE
- TOP OF VEGETATED EARTH BATTER
- BOTTOM OF VEGETATED EARTH BATTER

Schedule of Coordinates Street Trees

Tree #	Easting	Northing	Tree Type
ST01	1749259.6	5949401.2	Puhutakawa Mistal
ST03	1749300.5	5949383.9	
ST04	1749327.6	5949377.5	
ST05	1749353.6	5949379.9	
ST06	1749369.0	5949376.2	
ST07	1749378.6	5949365.5	
ST08	1749354.2	5949347.5	
ST09	1749350.2	5949335.1	
ST10	1749336.3	5949326.3	
ST11	1749335.6	5949312.1	
ST12	1749323.6	5949300.6	Liquidambar
ST13	1749314.2	5949303.1	
ST14	1749302.2	5949283.0	
ST15	1749278.2	5949276.0	
ST16	1749238.7	5949278.5	
ST02	1749266.6	5949378.3	Cercis Canadensis
ST17	1749257.6	5949248.1	
ST18	1749265.0	5949249.2	

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DRAWN	KH	
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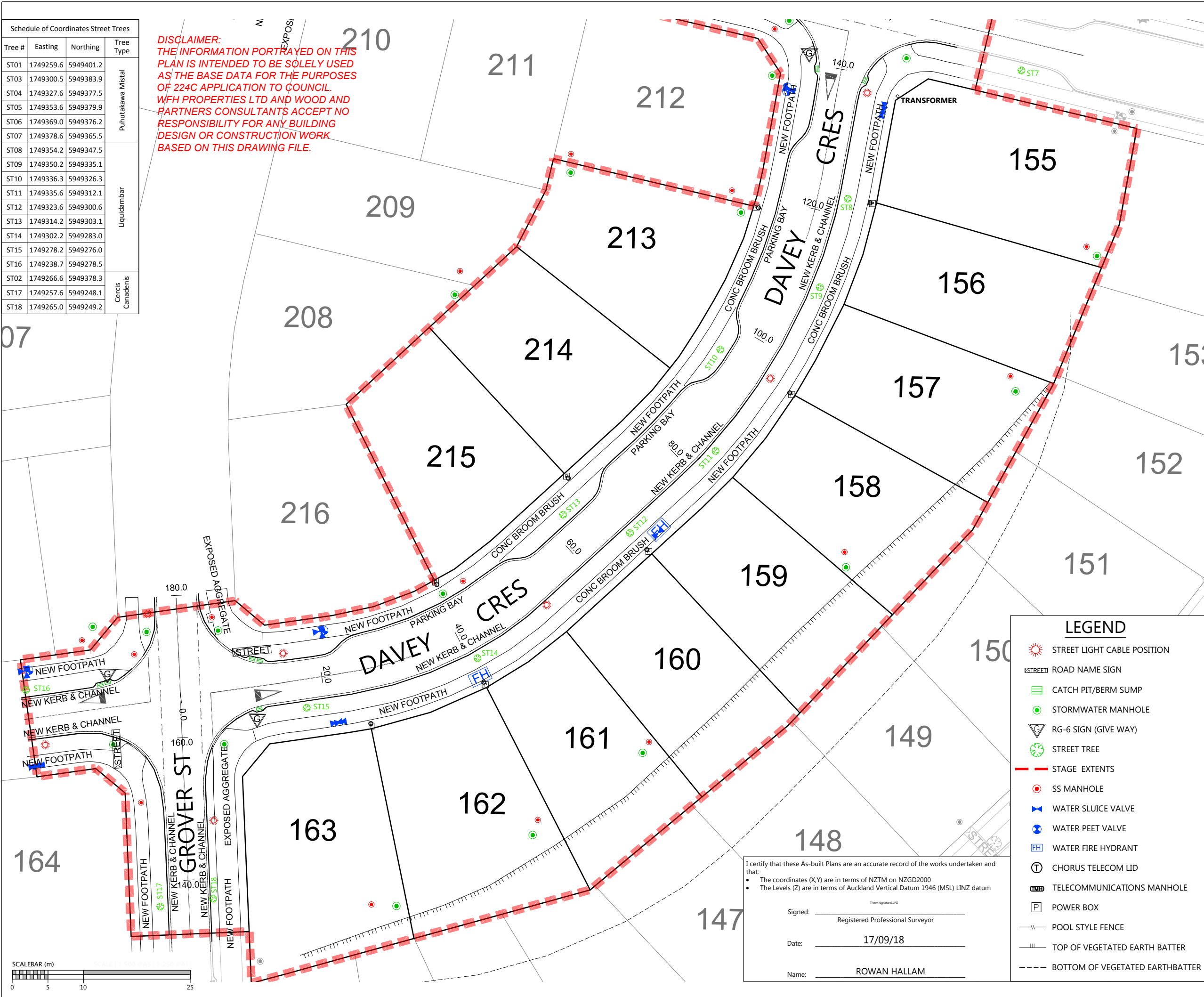
**MILLWATER PRECINCT 5
OREWA WEST
STAGE 3A**

ROADING AS-BUILT
SHEET 2 OF 3
(SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-201-AB	

Tree #	Easting	Northing	Tree Type
ST01	1749259.6	5949401.2	Puhutakawa Mistal
ST03	1749300.5	5949383.9	
ST04	1749327.6	5949377.5	
ST05	1749353.6	5949379.9	
ST06	1749369.0	5949376.2	
ST07	1749378.6	5949365.5	
ST08	1749354.2	5949347.5	
ST09	1749350.2	5949335.1	Liquidambar
ST10	1749336.3	5949326.3	
ST11	1749335.6	5949312.1	
ST12	1749323.6	5949300.6	
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ST14	1749302.2	5949283.0	
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- 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. STREET LIGHT POSITIONS SHOWN ARE SURVEYED LOCATIONS OF CABLES AND WILL BE UPDATE FOLLOWING INSTALLATION OF STREET LIGHTS.
 7. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.

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DRAWN	KH	
CHECKED	KR	
APPROVED	RH	

**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 3A
 ROADING AS-BUILT
 SHEET 3 OF 3
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-202-AB	

- LEGEND**
- ☀ STREET LIGHT CABLE POSITION
 - STREET ROAD NAME SIGN
 - ☑ CATCH PIT/BERM SUMP
 - STORMWATER MANHOLE
 - ⚠ RG-6 SIGN (GIVE WAY)
 - 🌳 STREET TREE
 - STAGE EXTENTS
 - SS MANHOLE
 - ⚡ WATER SLUICE VALVE
 - ⚡ WATER PEET VALVE
 - 🔥 WATER FIRE HYDRANT
 - Ⓣ CHORUS TELECOM LID
 - Ⓜ TELECOMMUNICATIONS MANHOLE
 - Ⓜ POWER BOX
 - POOL STYLE FENCE
 - TOP OF VEGETATED EARTH BATTER
 - BOTTOM OF VEGETATED EARTH BATTER

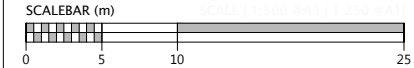
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- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

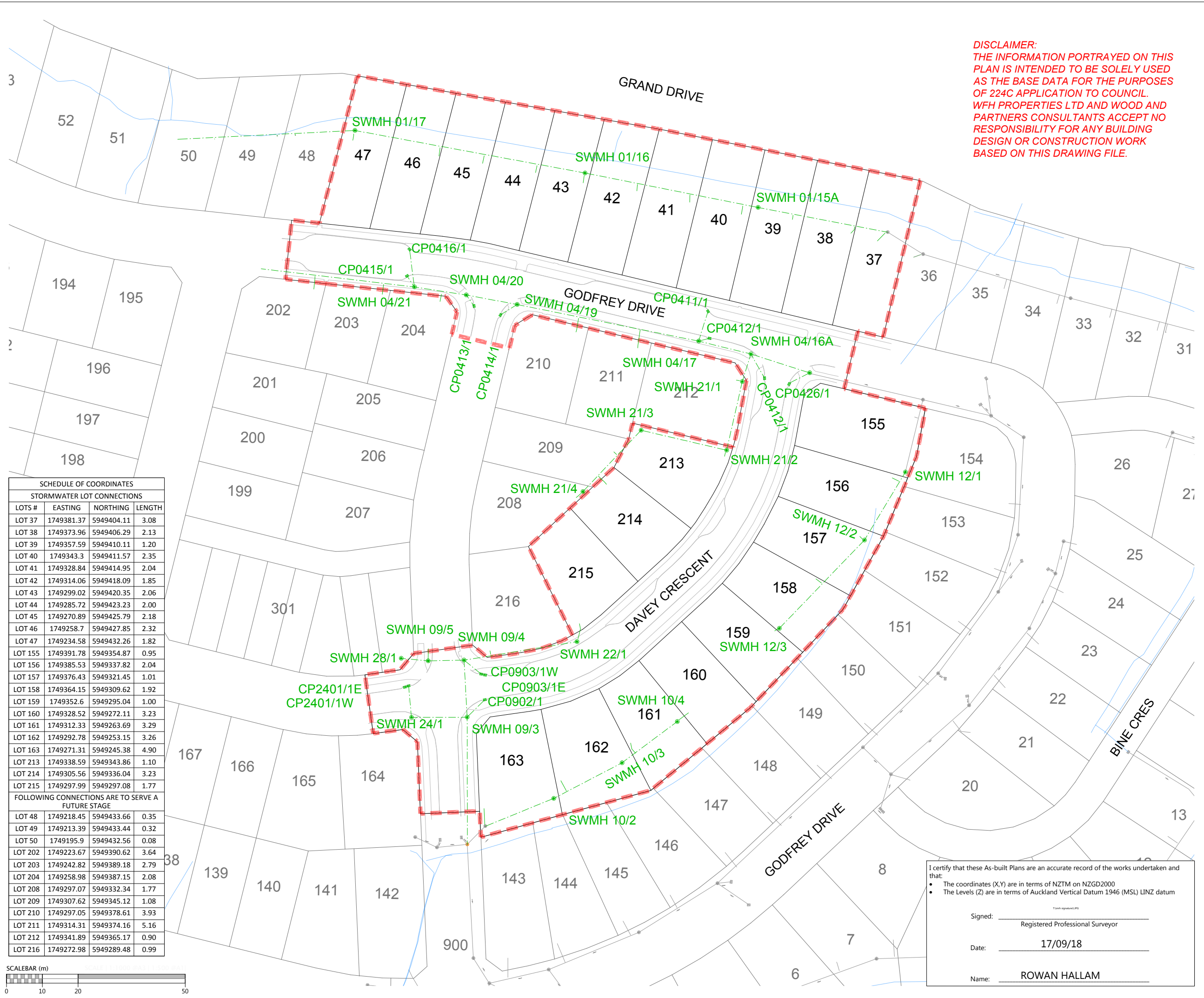
Signed: _____
 Registered Professional Surveyor

Date: 17/09/18

Name: ROWAN HALLAM



DISCLAIMER:
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LEGEND

STORMWATER MANHOLE	
STORMWATER CESSPIT	
STORMWATER DOUBLE CESSPIT	
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 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.

SCHEDULE OF COORDINATES
STORMWATER LOT CONNECTIONS

LOTS #	EASTING	NORTHING	LENGTH
LOT 37	1749381.37	5949404.11	3.08
LOT 38	1749373.96	5949406.29	2.13
LOT 39	1749357.59	5949410.11	1.20
LOT 40	1749343.3	5949411.57	2.35
LOT 41	1749328.84	5949414.95	2.04
LOT 42	1749314.06	5949418.09	1.85
LOT 43	1749299.02	5949420.35	2.06
LOT 44	1749285.72	5949423.23	2.00
LOT 45	1749270.89	5949425.79	2.18
LOT 46	1749258.7	5949427.85	2.32
LOT 47	1749234.58	5949432.26	1.82
LOT 155	1749391.78	5949354.87	0.95
LOT 156	1749385.53	5949337.82	2.04
LOT 157	1749376.43	5949321.45	1.01
LOT 158	1749364.15	5949309.62	1.92
LOT 159	1749352.6	5949295.04	1.00
LOT 160	1749328.52	5949272.11	3.23
LOT 161	1749312.33	5949263.69	3.29
LOT 162	1749292.78	5949253.15	3.26
LOT 163	1749271.31	5949245.38	4.90
LOT 213	1749338.59	5949343.86	1.10
LOT 214	1749305.56	5949336.04	3.23
LOT 215	1749297.99	5949297.08	1.77
FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE			
LOT 48	1749218.45	5949433.66	0.35
LOT 49	1749213.39	5949433.44	0.32
LOT 50	1749195.9	5949432.56	0.08
LOT 202	1749223.67	5949390.62	3.64
LOT 203	1749242.82	5949389.18	2.79
LOT 204	1749258.98	5949387.15	2.08
LOT 208	1749297.07	5949332.34	1.77
LOT 209	1749307.62	5949345.12	1.08
LOT 210	1749297.05	5949378.61	3.93
LOT 211	1749314.31	5949374.16	5.16
LOT 212	1749341.89	5949365.17	0.90
LOT 216	1749272.98	5949289.48	0.99

REVISION DETAILS

NO	ISSUED FOR INFORMATION	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/09/18

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

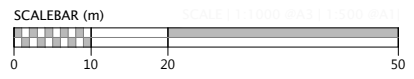
**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 3A
 STORMWATER AS-BUILT
 OVERALL LAYOUT
 SHEET 1 OF 3
 (SLC-66650)**

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: 17/09/18
 Name: ROWAN HALLAM

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-300-AB	



Document No. K:\37503 - ARRAN HILL PRECINCT 5 STAGE 3 DRAWINGS\SURV\AS-BUILT\3A\37503-03A-300-AB-STORMWATER.DWG

GRAND DRIVE

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

Signed: _____
Registered Professional Surveyor

Date: 17/09/18

Name: ROWAN HALLAM

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LEGEND

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

- NOTES**
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 - 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

NO	DESCRIPTION	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/09/18

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



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 3A**

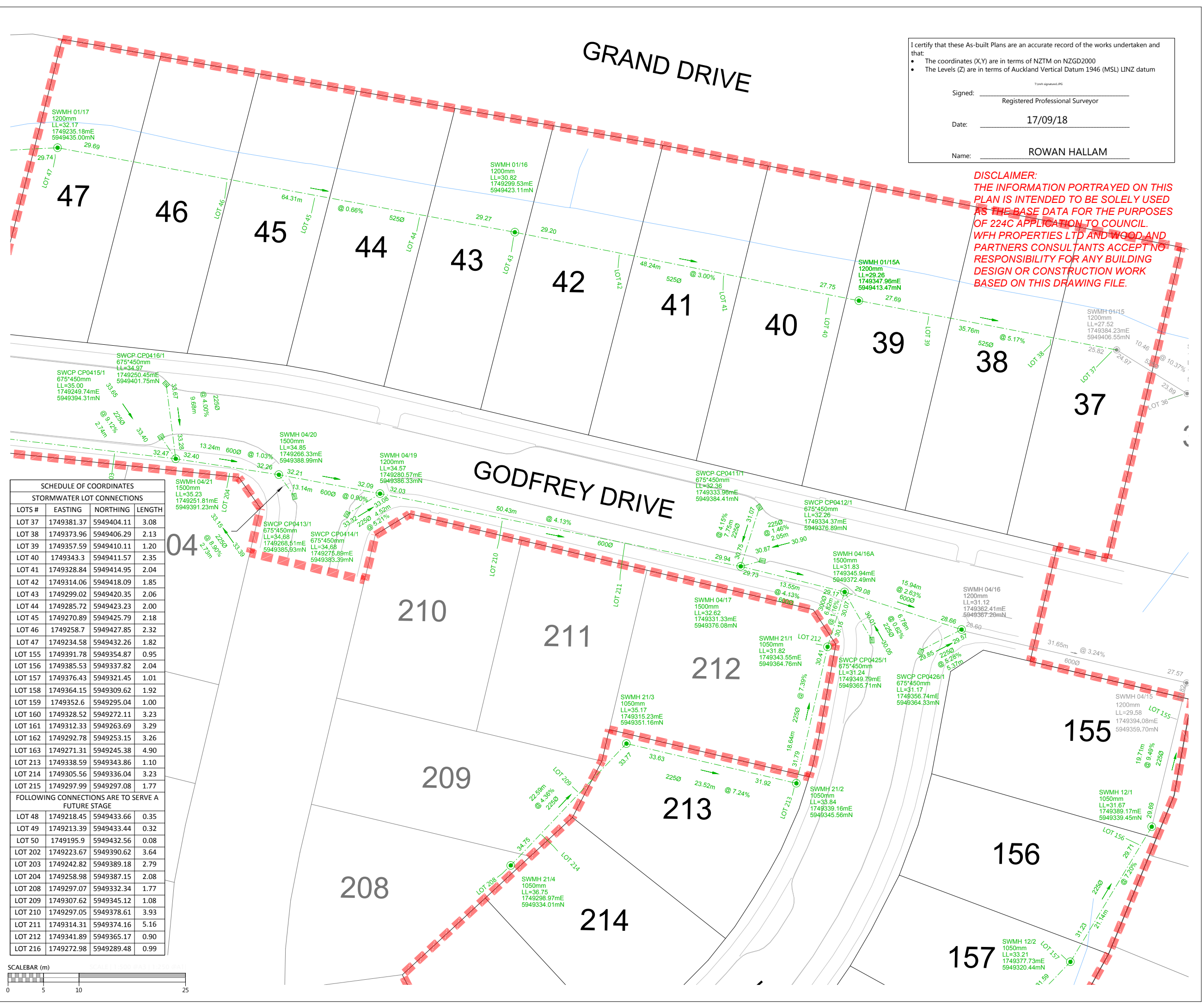
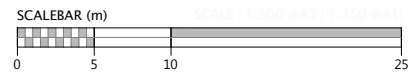
STORMWATER AS-BUILT
SHEET 2 OF 3
(SLC-66650)

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-301-AB	

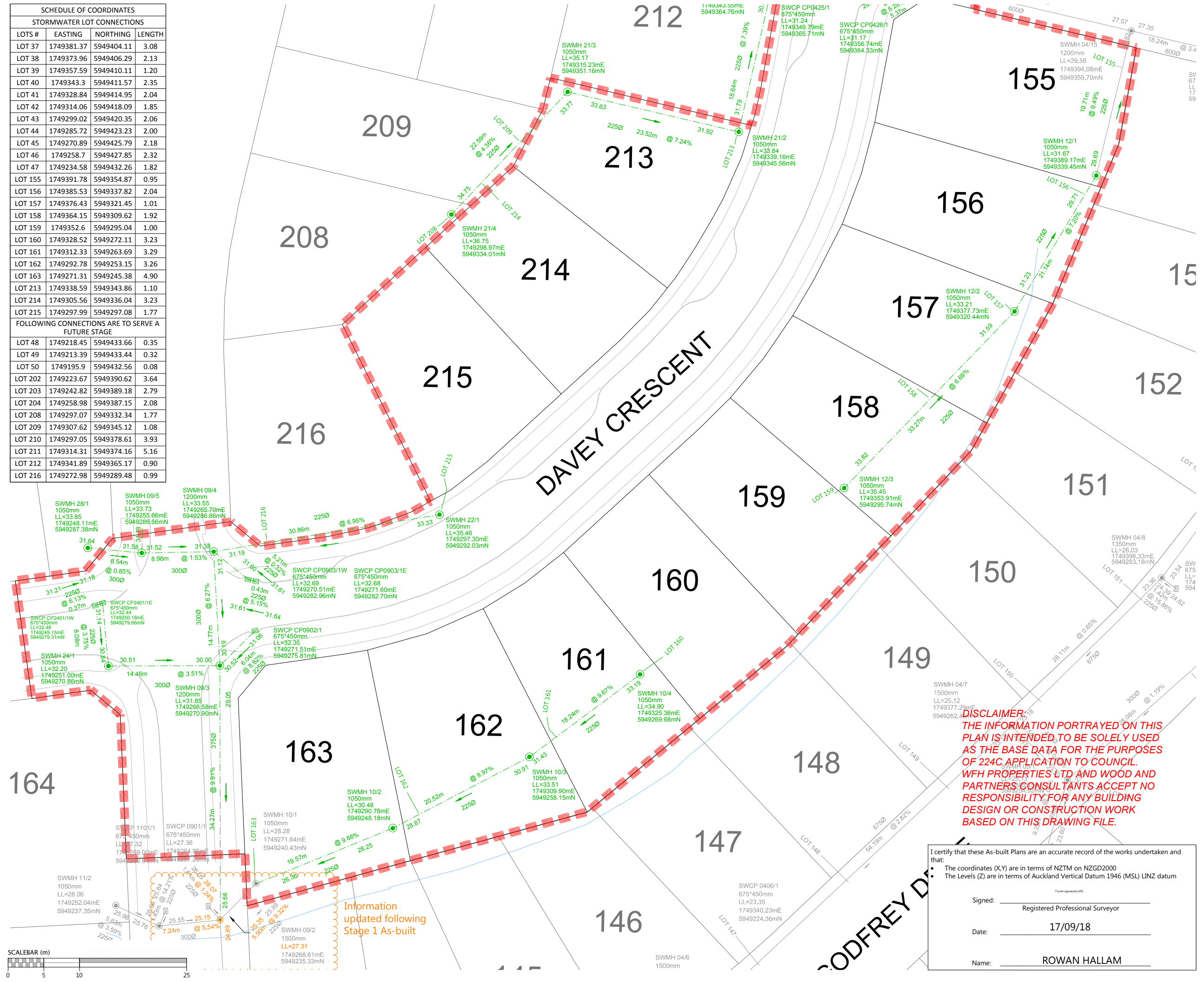
SCHEDULE OF COORDINATES

STORMWATER LOT CONNECTIONS

LOTS #	EASTING	NORTHING	LENGTH
LOT 37	1749381.37	5949404.11	3.08
LOT 38	1749373.96	5949406.29	2.13
LOT 39	1749357.59	5949410.11	1.20
LOT 40	1749343.3	5949411.57	2.35
LOT 41	1749328.84	5949414.95	2.04
LOT 42	1749314.06	5949418.09	1.85
LOT 43	1749299.02	5949420.35	2.06
LOT 44	1749285.72	5949423.23	2.00
LOT 45	1749270.89	5949425.79	2.18
LOT 46	1749258.7	5949427.85	2.32
LOT 47	1749234.58	5949432.26	1.82
LOT 155	1749391.78	5949354.87	0.95
LOT 156	1749385.53	5949337.82	2.04
LOT 157	1749376.43	5949321.45	1.01
LOT 158	1749364.15	5949309.62	1.92
LOT 159	1749352.6	5949295.04	1.00
LOT 160	1749328.52	5949272.11	3.23
LOT 161	1749312.33	5949263.69	3.29
LOT 162	1749292.78	5949253.15	3.26
LOT 163	1749271.31	5949245.38	4.90
LOT 213	1749338.59	5949343.86	1.10
LOT 214	1749305.56	5949336.04	3.23
LOT 215	1749297.99	5949297.08	1.77
FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE			
LOT 48	1749218.45	5949433.66	0.35
LOT 49	1749213.39	5949433.44	0.32
LOT 50	1749195.9	5949432.56	0.08
LOT 202	1749223.67	5949390.62	3.64
LOT 203	1749242.82	5949389.18	2.79
LOT 204	1749258.98	5949387.15	2.08
LOT 208	1749297.07	5949332.34	1.77
LOT 209	1749307.62	5949345.12	1.08
LOT 210	1749297.05	5949378.61	3.93
LOT 211	1749314.31	5949374.16	5.16
LOT 212	1749341.89	5949365.17	0.90
LOT 216	1749272.98	5949289.48	0.99



SCHEDULE OF COORDINATES			
STORMWATER LOT CONNECTIONS			
LOTS #	EASTING	NORTHING	LENGTH
LOT 37	1749381.37	5949404.11	3.08
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LOT 47	1749234.58	5949432.26	1.82
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LOT 160	1749328.52	5949272.11	3.23
LOT 161	1749312.33	5949263.69	3.29
LOT 162	1749292.78	5949253.15	3.26
LOT 163	1749271.31	5949245.38	4.90
LOT 213	1749338.59	5949343.86	1.10
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FOLLOWING CONNECTIONS ARE TO SERVE A FUTURE STAGE			
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LOT 49	1749213.39	5949433.44	0.32
LOT 50	1749195.9	5949432.56	0.08
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LOT 203	1749242.82	5949389.18	2.79
LOT 204	1749258.98	5949387.15	2.08
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LOT 210	1749297.05	5949378.61	3.93
LOT 211	1749314.31	5949374.16	5.16
LOT 212	1749341.89	5949365.17	0.90
LOT 216	1749272.98	5949289.48	0.99



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

- NOTES**
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	17/09/18

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

**MILLWATER PRECINCT 5
OREWA WEST
STAGE 3A**

**STORMWATER AS-BUILT
SHEET 3 OF 3
(SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-302-AB	

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

Signed: _____
Registered Professional Surveyor

Date: 17/09/18

Name: ROWAN HALLAM



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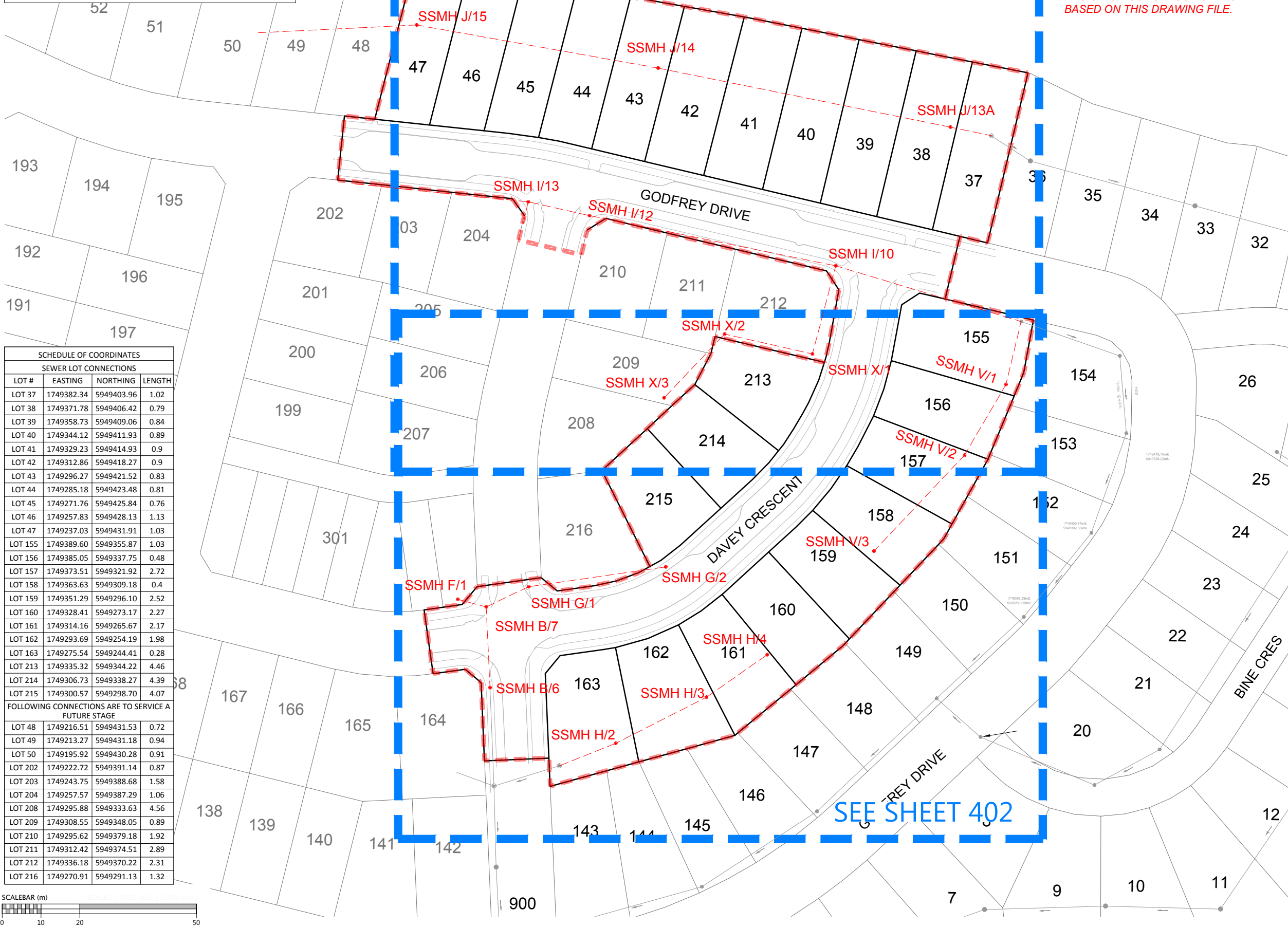
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LEGEND

NEW SANITARY SEWER MANHOLE	●
NEW SANITARY SEWER	---
EXISTING SANITARY SEWER	—
STAGE BOUNDARY	---

- NOTES**
- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
 - ALL SANITARY SEWER LINES ARE 150mmØ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
 - ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
 - ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
 - ALL PIPE AND MH DIAMETERS ARE INTERNAL, AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
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SCHEDULE OF COORDINATES

SEWER LOT CONNECTIONS			
LOT #	EASTING	NORTHING	LENGTH
LOT 37	1749382.34	5949403.96	1.02
LOT 38	1749371.78	5949406.42	0.79
LOT 39	1749358.73	5949409.06	0.84
LOT 40	1749344.12	5949411.93	0.89
LOT 41	1749329.23	5949414.93	0.9
LOT 42	1749312.86	5949418.27	0.9
LOT 43	1749296.27	5949421.52	0.83
LOT 44	1749285.18	5949423.48	0.81
LOT 45	1749271.76	5949425.84	0.76
LOT 46	1749257.83	5949428.13	1.13
LOT 47	1749237.03	5949431.91	1.03
LOT 155	1749389.60	5949355.87	1.03
LOT 156	1749385.05	5949337.75	0.48
LOT 157	1749373.51	5949321.92	2.72
LOT 158	1749363.63	5949309.18	0.4
LOT 159	1749351.29	5949296.10	2.52
LOT 160	1749328.41	5949273.17	2.27
LOT 161	1749314.16	5949265.67	2.17
LOT 162	1749293.69	5949254.19	1.98
LOT 163	1749275.54	5949244.41	0.28
LOT 213	1749335.32	5949344.22	4.46
LOT 214	1749306.73	5949338.27	4.39
LOT 215	1749300.57	5949298.70	4.07
FOLLOWING CONNECTIONS ARE TO SERVICE A FUTURE STAGE			
LOT 48	1749216.51	5949431.53	0.72
LOT 49	1749213.27	5949431.18	0.94
LOT 50	1749195.92	5949430.28	0.91
LOT 202	1749222.72	5949391.14	0.87
LOT 203	1749243.75	5949388.68	1.58
LOT 204	1749257.57	5949387.29	1.06
LOT 208	1749295.88	5949333.63	4.56
LOT 209	1749308.55	5949348.05	0.89
LOT 210	1749295.62	5949379.18	1.92
LOT 211	1749312.42	5949374.51	2.89
LOT 212	1749336.18	5949370.22	2.31
LOT 216	1749270.91	5949291.13	1.32

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSEUD FOR INFORMATION	KR	17/09/18

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



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 3A
WASTEWATER AS-BUILT
OVERALL LAYOUT
SHEET 1 OF 3
(SLC-66650)**

STATUS	AS BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-400-AB	



Document No. K137503 - ARBAN HILL PRECINCT 5 STAGE 3 DRAWINGS SURV AS BUILT 37503-03A-400-AB-SEWER.DWG

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: 17/09/18

Name: ROWAN HALLAM

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LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
EXISTING SANITARY SEWER	
STAGE BOUNDARY	

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REVISION DETAILS

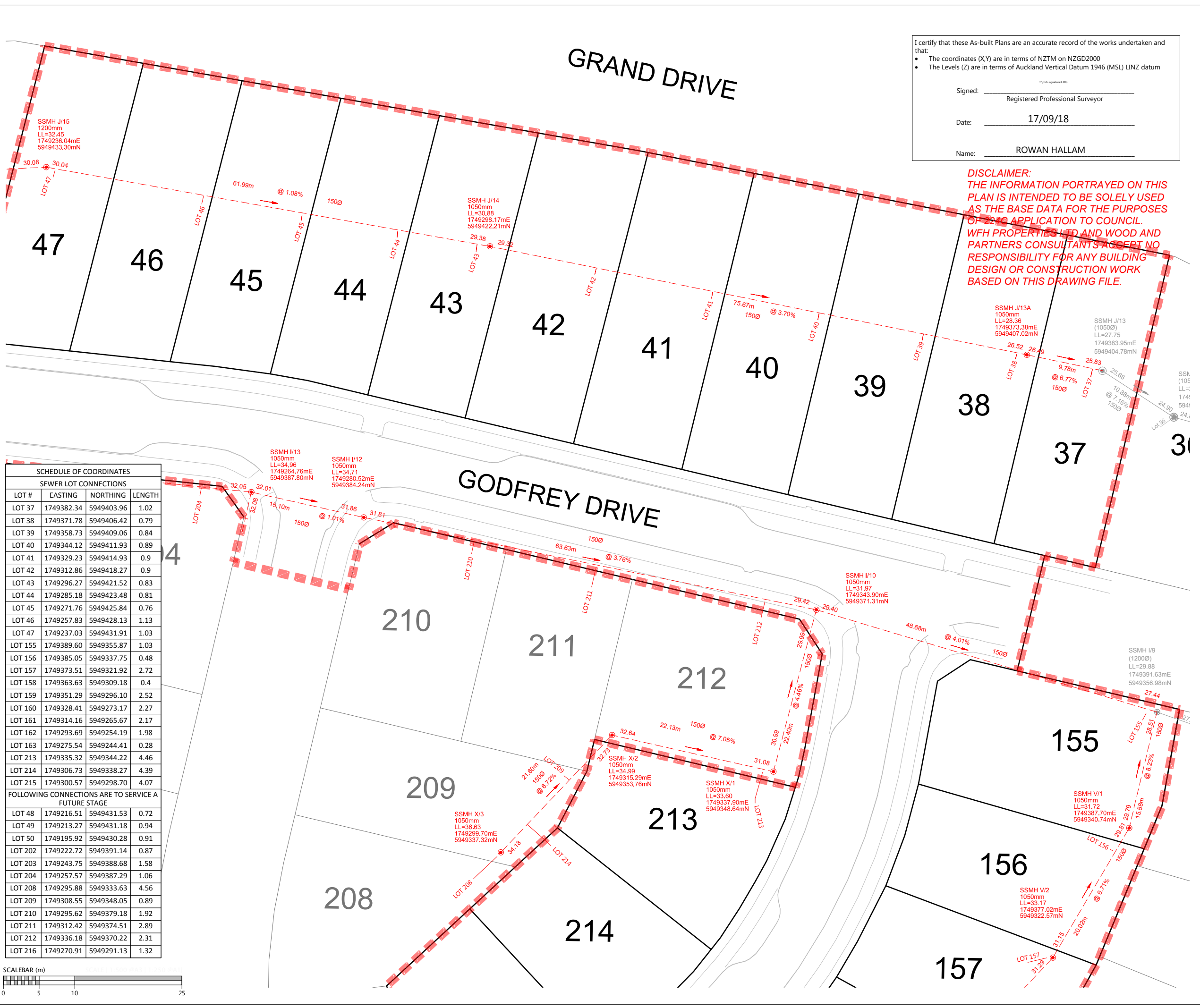
NO	DESCRIPTION	BY	DATE
1	ISSEUD FOR INFORMATION	KR	17/09/18

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



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 3A
WASTEWATER AS-BUILT
SHEET 2 OF 3
(SLC-66650)**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-401-AB	



SCHEDULE OF COORDINATES

SEWER LOT CONNECTIONS

LOT #	EASTING	NORTHING	LENGTH
LOT 37	1749382.34	5949403.96	1.02
LOT 38	1749371.78	5949406.42	0.79
LOT 39	1749358.73	5949409.06	0.84
LOT 40	1749344.12	5949411.93	0.89
LOT 41	1749329.23	5949414.93	0.9
LOT 42	1749312.86	5949418.27	0.9
LOT 43	1749296.27	5949421.52	0.83
LOT 44	1749285.18	5949423.48	0.81
LOT 45	1749271.76	5949425.84	0.76
LOT 46	1749257.83	5949428.13	1.13
LOT 47	1749237.03	5949431.91	1.03
LOT 155	1749389.60	5949355.87	1.03
LOT 156	1749385.05	5949337.75	0.48
LOT 157	1749373.51	5949321.92	2.72
LOT 158	1749363.63	5949309.18	0.4
LOT 159	1749351.29	5949296.10	2.52
LOT 160	1749328.41	5949273.17	2.27
LOT 161	1749314.16	5949265.67	2.17
LOT 162	1749293.69	5949254.19	1.98
LOT 163	1749275.54	5949244.41	0.28
LOT 213	1749335.32	5949344.22	4.46
LOT 214	1749306.73	5949338.27	4.39
LOT 215	1749300.57	5949298.70	4.07

FOLLOWING CONNECTIONS ARE TO SERVICE A FUTURE STAGE

LOT #	EASTING	NORTHING	LENGTH
LOT 48	1749216.51	5949431.53	0.72
LOT 49	1749213.27	5949431.18	0.94
LOT 50	1749195.92	5949430.28	0.91
LOT 202	1749222.72	5949391.14	0.87
LOT 203	1749243.75	5949388.68	1.58
LOT 204	1749257.57	5949387.29	1.06
LOT 208	1749295.88	5949333.63	4.56
LOT 209	1749308.55	5949348.05	0.89
LOT 210	1749295.62	5949379.18	1.92
LOT 211	1749312.42	5949374.51	2.89
LOT 212	1749336.18	5949370.22	2.31
LOT 216	1749270.91	5949291.13	1.32



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

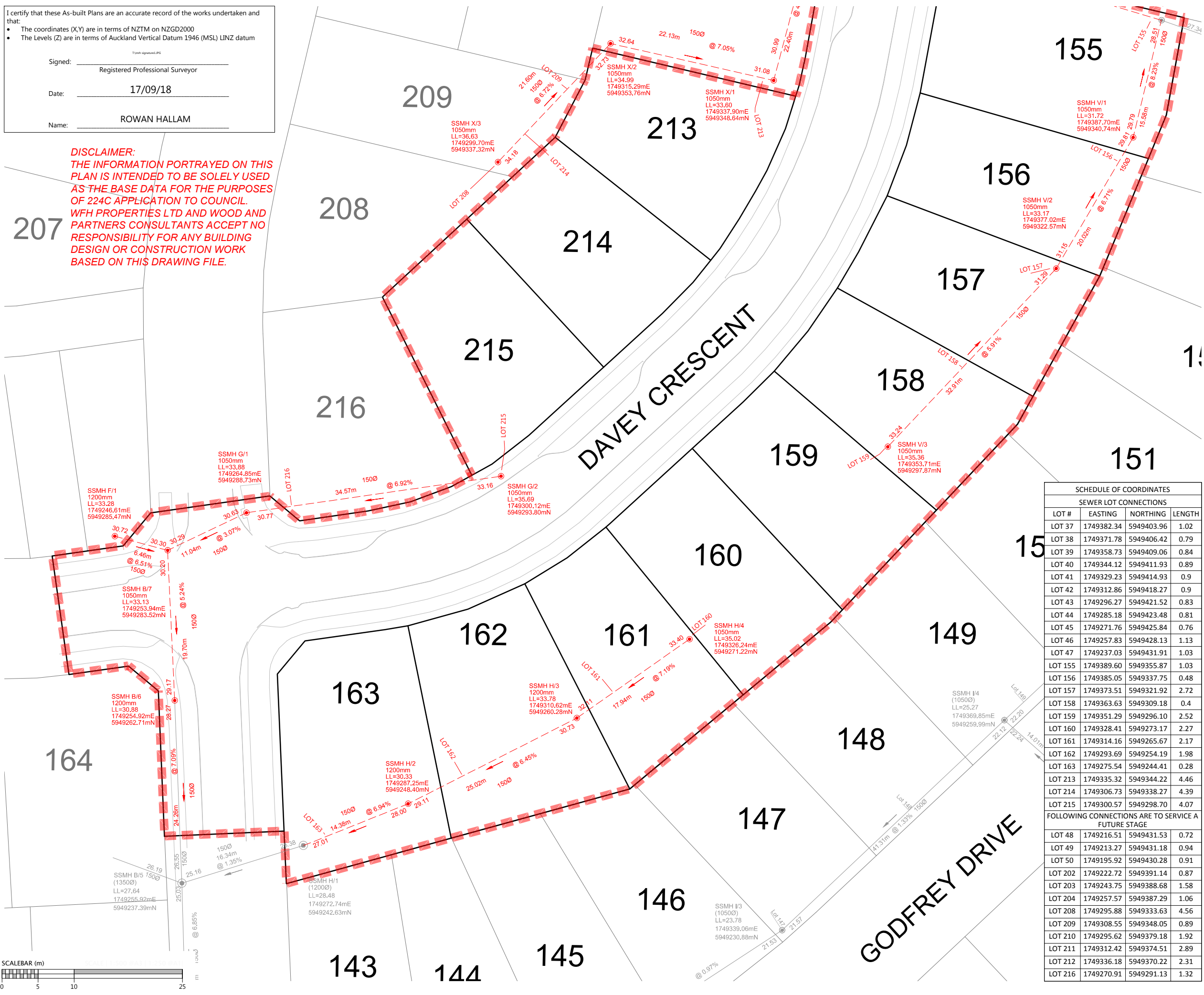
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
Registered Professional Surveyor

Date: 17/09/18

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.



LEGEND

- NEW SANITARY SEWER MANHOLE:
- NEW SANITARY SEWER:
- EXISTING SANITARY SEWER:
- STAGE BOUNDARY:

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

SCHEDULE OF COORDINATES

SEWER LOT CONNECTIONS			
LOT #	EASTING	NORTHING	LENGTH
LOT 37	1749382.34	5949403.96	1.02
LOT 38	1749371.78	5949406.42	0.79
LOT 39	1749358.73	5949409.06	0.84
LOT 40	1749344.12	5949411.93	0.89
LOT 41	1749329.23	5949414.93	0.9
LOT 42	1749312.86	5949418.27	0.9
LOT 43	1749296.27	5949421.52	0.83
LOT 44	1749285.18	5949423.48	0.81
LOT 45	1749271.76	5949425.84	0.76
LOT 46	1749257.83	5949428.13	1.13
LOT 47	1749237.03	5949431.91	1.03
LOT 155	1749389.60	5949355.87	1.03
LOT 156	1749385.05	5949337.75	0.48
LOT 157	1749373.51	5949321.92	2.72
LOT 158	1749363.63	5949309.18	0.4
LOT 159	1749351.29	5949296.10	2.52
LOT 160	1749328.41	5949273.17	2.27
LOT 161	1749314.16	5949265.67	2.17
LOT 162	1749293.69	5949254.19	1.98
LOT 163	1749275.54	5949244.41	0.28
LOT 164	1749255.32	5949233.63	4.56
LOT 165	1749233.27	5949213.18	0.94
LOT 166	1749213.27	5949193.18	0.94
LOT 167	1749193.18	5949173.18	0.94
LOT 168	1749173.18	5949153.18	0.94
LOT 169	1749153.18	5949133.18	0.94
LOT 170	1749133.18	5949113.18	0.94
LOT 171	1749113.18	5949093.18	0.94
LOT 172	1749093.18	5949073.18	0.94
LOT 173	1749073.18	5949053.18	0.94
LOT 174	1749053.18	5949033.18	0.94
LOT 175	1749033.18	5949013.18	0.94
LOT 176	1749013.18	5948993.18	0.94
LOT 177	1748993.18	5948973.18	0.94
LOT 178	1748973.18	5948953.18	0.94
LOT 179	1748953.18	5948933.18	0.94
LOT 180	1748933.18	5948913.18	0.94
LOT 181	1748913.18	5948893.18	0.94
LOT 182	1748893.18	5948873.18	0.94
LOT 183	1748873.18	5948853.18	0.94
LOT 184	1748853.18	5948833.18	0.94
LOT 185	1748833.18	5948813.18	0.94
LOT 186	1748813.18	5948793.18	0.94
LOT 187	1748793.18	5948773.18	0.94
LOT 188	1748773.18	5948753.18	0.94
LOT 189	1748753.18	5948733.18	0.94
LOT 190	1748733.18	5948713.18	0.94
LOT 191	1748713.18	5948693.18	0.94
LOT 192	1748693.18	5948673.18	0.94
LOT 193	1748673.18	5948653.18	0.94
LOT 194	1748653.18	5948633.18	0.94
LOT 195	1748633.18	5948613.18	0.94
LOT 196	1748613.18	5948593.18	0.94
LOT 197	1748593.18	5948573.18	0.94
LOT 198	1748573.18	5948553.18	0.94
LOT 199	1748553.18	5948533.18	0.94
LOT 200	1748533.18	5948513.18	0.94
LOT 201	1748513.18	5948493.18	0.94
LOT 202	1748493.18	5948473.18	0.94
LOT 203	1748473.18	5948453.18	0.94
LOT 204	1748453.18	5948433.18	0.94
LOT 205	1748433.18	5948413.18	0.94
LOT 206	1748413.18	5948393.18	0.94
LOT 207	1748393.18	5948373.18	0.94
LOT 208	1748373.18	5948353.18	0.94
LOT 209	1748353.18	5948333.18	0.94
LOT 210	1748333.18	5948313.18	0.94
LOT 211	1748313.18	5948293.18	0.94
LOT 212	1748293.18	5948273.18	0.94
LOT 213	1748273.18	5948253.18	0.94
LOT 214	1748253.18	5948233.18	0.94
LOT 215	1748233.18	5948213.18	0.94
LOT 216	1748213.18	5948193.18	0.94

FOLLOWING CONNECTIONS ARE TO SERVICE A FUTURE STAGE

LOT 48	1749216.51	5949431.53	0.72
LOT 49	1749213.27	5949431.18	0.94
LOT 50	1749195.92	5949430.28	0.91
LOT 202	1749222.72	5949391.14	0.87
LOT 203	1749243.75	5949388.68	1.58
LOT 204	1749257.57	5949387.29	1.06
LOT 208	1749295.88	5949333.63	4.56
LOT 209	1749308.55	5949348.05	0.89
LOT 210	1749295.62	5949379.18	1.92
LOT 211	1749312.42	5949374.51	2.89
LOT 212	1749336.18	5949370.22	2.31
LOT 216	1749270.91	5949291.13	1.32

REVISION DETAILS

NO	DESCRIPTION	BY	DATE
1	ISSEUD FOR INFORMATION	KR	17/09/18

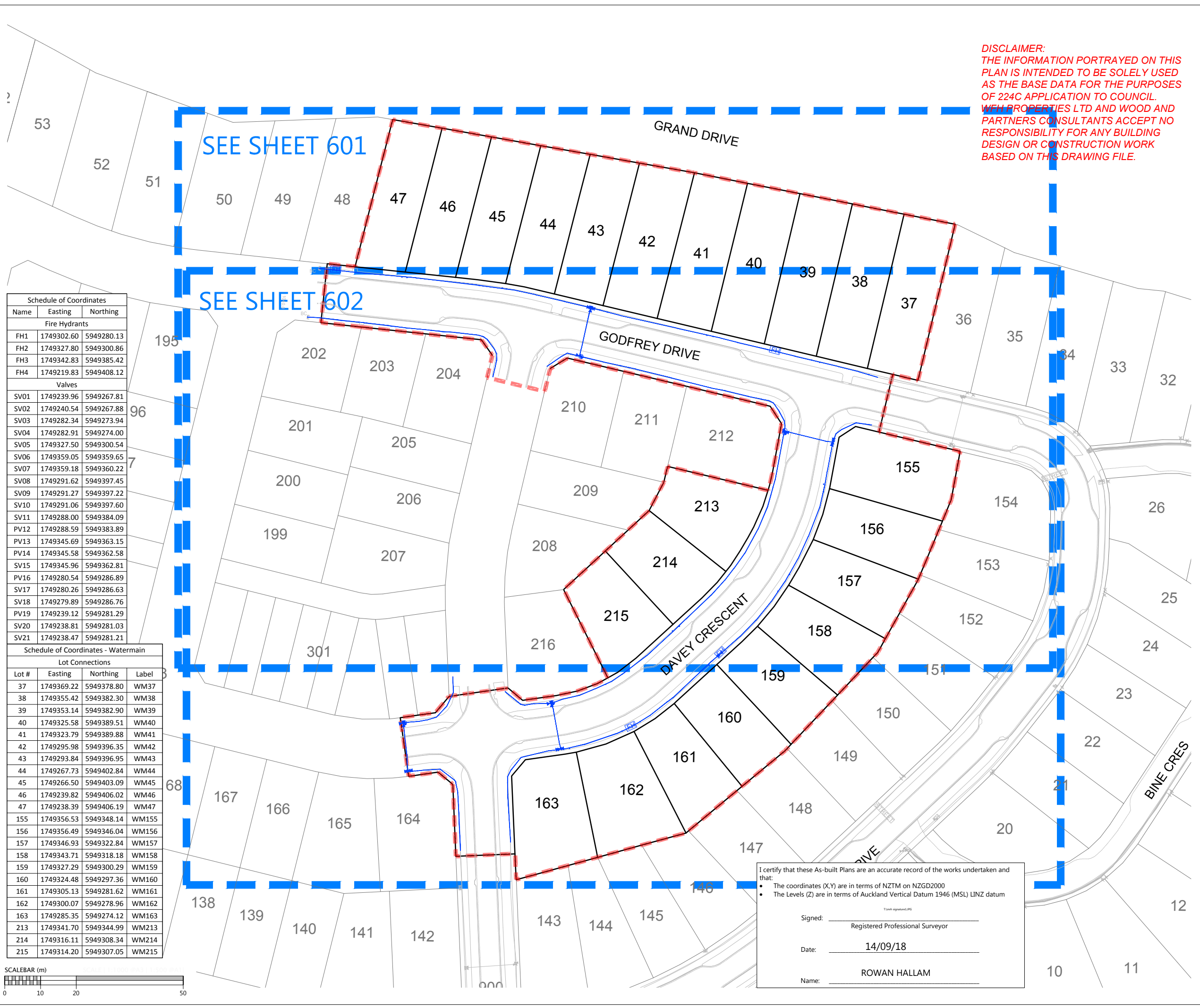
SURVEYED	WOODS	WOODS Ltd LEVEL 1 BUILDING B, 8 NUGENT STREET, GRAFTON AUCKLAND 1023 09 308 9229
DESIGNED	AF	
DRAWN	KH	
CHECKED	AF	
APPROVED	RH	



**MILLWATER PRECINCT 5
OREWA WEST
STAGE 3A
WASTEWATER AS-BUILT
SHEET 3 OF 3
(SLC-66650)**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-402-AB	

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 601

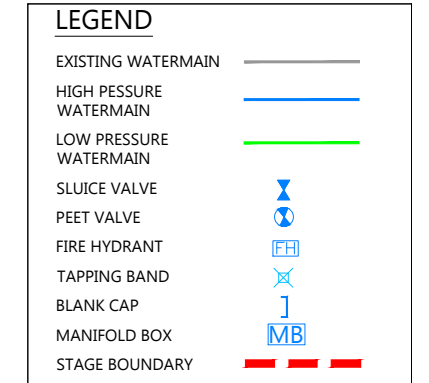
SEE SHEET 602

Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH1	1749302.60	5949280.13
FH2	1749327.80	5949300.86
FH3	1749342.83	5949385.42
FH4	1749219.83	5949408.12
Valves		
SV01	1749239.96	5949267.81
SV02	1749240.54	5949267.88
SV03	1749282.34	5949273.94
SV04	1749282.91	5949274.00
SV05	1749327.50	5949300.54
SV06	1749359.05	5949359.65
SV07	1749359.18	5949360.22
SV08	1749291.62	5949397.45
SV09	1749291.27	5949397.22
SV10	1749291.06	5949397.60
SV11	1749288.00	5949384.09
PV12	1749288.59	5949383.89
PV13	1749345.69	5949363.15
PV14	1749345.58	5949362.58
SV15	1749345.96	5949362.81
PV16	1749280.54	5949286.89
SV17	1749280.26	5949286.63
SV18	1749279.89	5949286.76
PV19	1749239.12	5949281.29
SV20	1749238.81	5949281.03
SV21	1749238.47	5949281.21

Schedule of Coordinates - Watermain			
Lot Connections			
Lot #	Easting	Northing	Label
37	1749369.22	5949378.80	WM37
38	1749355.42	5949382.30	WM38
39	1749353.14	5949382.90	WM39
40	1749325.58	5949389.51	WM40
41	1749323.79	5949389.88	WM41
42	1749295.98	5949396.35	WM42
43	1749293.84	5949396.95	WM43
44	1749267.73	5949402.84	WM44
45	1749266.50	5949403.09	WM45
46	1749239.82	5949406.02	WM46
47	1749238.39	5949406.19	WM47
155	1749356.53	5949348.14	WM155
156	1749356.49	5949346.04	WM156
157	1749346.93	5949322.84	WM157
158	1749343.71	5949318.18	WM158
159	1749327.29	5949300.29	WM159
160	1749324.48	5949297.36	WM160
161	1749305.13	5949281.62	WM161
162	1749300.07	5949278.96	WM162
163	1749285.35	5949274.12	WM163
213	1749341.70	5949344.99	WM213
214	1749316.11	5949308.34	WM214
215	1749314.20	5949307.05	WM215



- 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.
 - EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS



REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	14/09/18

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



**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 WATERMAIN AS-BUILT
 SHEET 1 OF 3
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-600-AB	

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

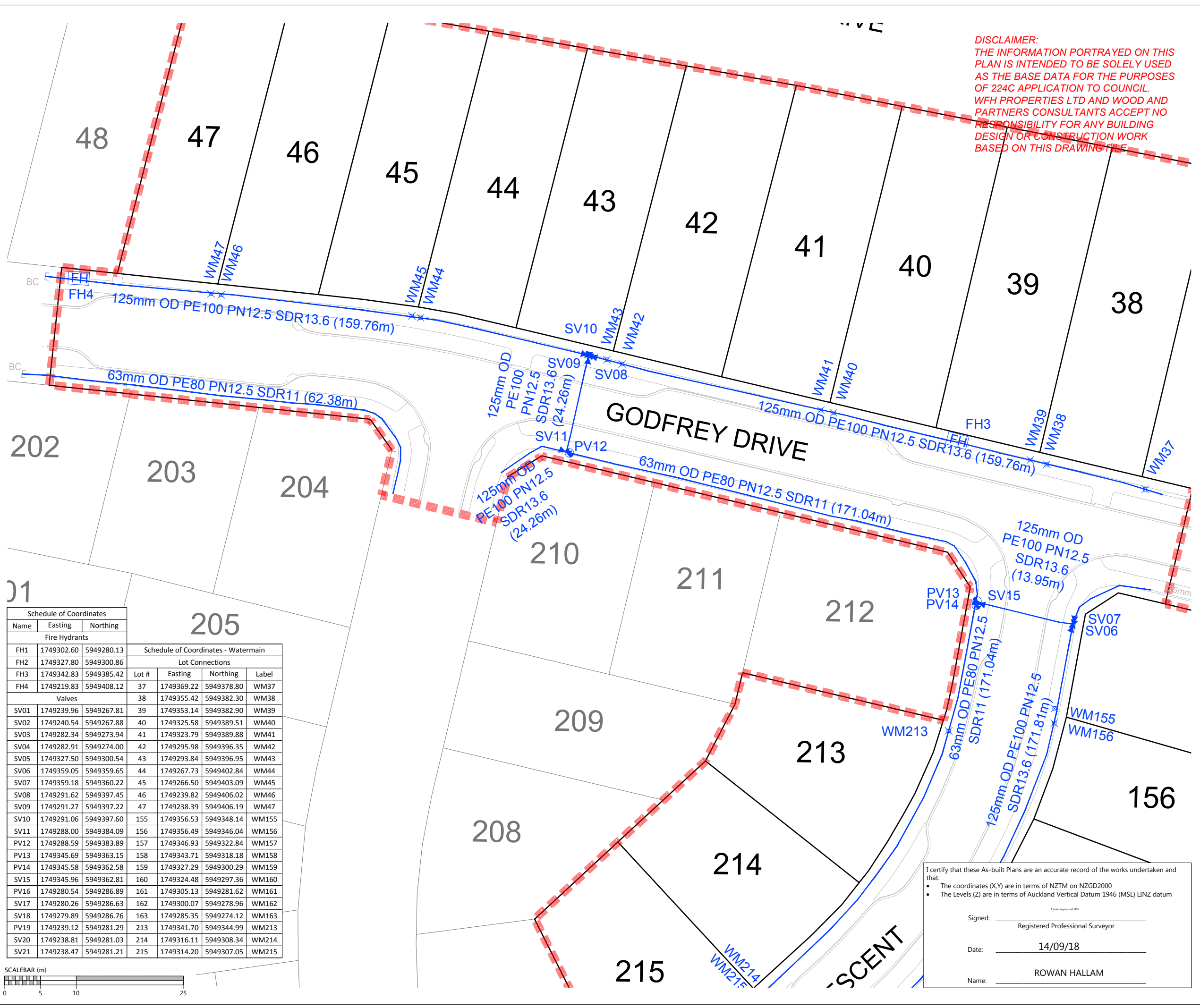
- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed: _____
 Registered Professional Surveyor

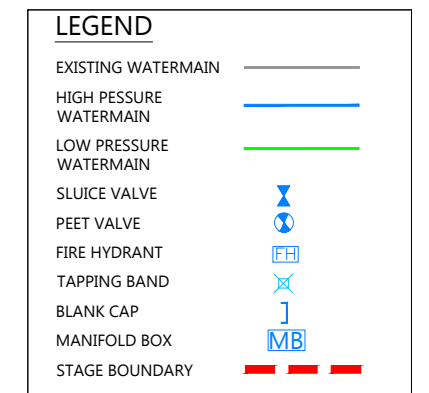
Date: 14/09/18

Name: ROWAN HALLAM

DISCLAIMER:
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- 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.
 8. EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS



REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	14/09/18

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

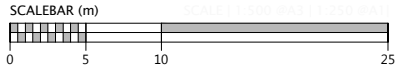


**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 WATERMAIN AS-BUILT
 SHEET 2 OF 3
 (SLC-66650)**

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-601-AB	

Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH1	1749302.60	5949280.13
FH2	1749327.80	5949300.86
FH3	1749342.83	5949385.42
FH4	1749219.83	5949408.12
Valves		
SV01	1749239.96	5949267.81
SV02	1749240.54	5949267.88
SV03	1749282.34	5949273.94
SV04	1749282.91	5949274.00
SV05	1749327.50	5949300.54
SV06	1749359.05	5949359.65
SV07	1749359.18	5949360.22
SV08	1749291.62	5949397.45
SV09	1749291.27	5949397.22
SV10	1749291.06	5949397.60
SV11	1749288.00	5949384.09
PV12	1749288.59	5949383.89
PV13	1749345.69	5949363.15
PV14	1749345.58	5949362.58
SV15	1749345.96	5949362.81
PV16	1749280.54	5949286.89
SV17	1749280.26	5949286.63
SV18	1749279.89	5949286.76
PV19	1749239.12	5949281.29
SV20	1749238.81	5949281.03
SV21	1749238.47	5949281.21

Schedule of Coordinates - Watermain						
Lot Connections						
Lot #	Easting	Northing	Label			
37	1749369.22	5949378.80	WM37			
38	1749355.42	5949382.30	WM38			
39	1749353.14	5949382.90	WM39			
40	1749325.58	5949389.51	WM40			
41	1749323.79	5949389.88	WM41			
42	1749295.98	5949396.35	WM42			
43	1749293.84	5949396.95	WM43			
44	1749267.73	5949402.84	WM44			
45	1749266.50	5949403.09	WM45			
46	1749239.82	5949406.02	WM46			
47	1749238.39	5949406.19	WM47			
155	1749356.53	5949348.14	WM155			
156	1749356.49	5949346.04	WM156			
157	1749346.93	5949322.84	WM157			
158	1749343.71	5949318.18	WM158			
159	1749327.29	5949300.29	WM159			
160	1749324.48	5949297.36	WM160			
161	1749305.13	5949281.62	WM161			
162	1749300.07	5949278.96	WM162			
163	1749285.35	5949274.12	WM163			
213	1749341.70	5949344.99	WM213			
214	1749316.11	5949308.34	WM214			
215	1749314.20	5949307.05	WM215			



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: 14/09/18

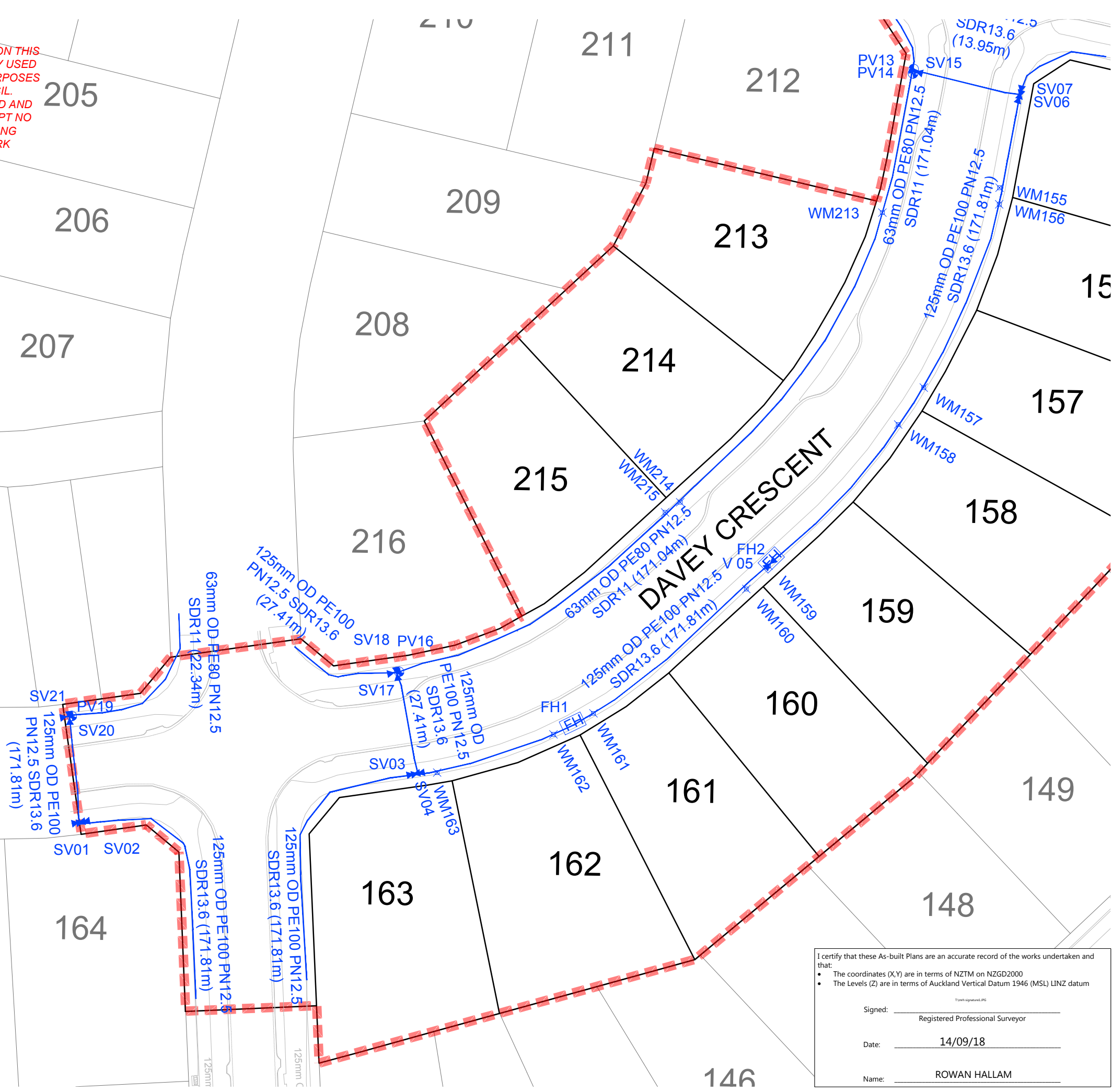
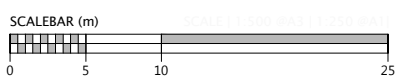
Name: ROWAN HALLAM

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Schedule of Coordinates		
Name	Easting	Northing
Fire Hydrants		
FH1	1749302.60	5949280.13
FH2	1749327.80	5949300.86
FH3	1749342.83	5949385.42
FH4	1749219.83	5949408.12
Valves		
SV01	1749239.96	5949267.81
SV02	1749240.54	5949267.88
SV03	1749282.34	5949273.94
SV04	1749282.91	5949274.00
SV05	1749327.50	5949300.54
SV06	1749359.05	5949359.65
SV07	1749359.18	5949360.22
SV08	1749291.62	5949397.45
SV09	1749291.27	5949397.22
SV10	1749291.06	5949397.60
SV11	1749288.00	5949384.09
PV12	1749288.59	5949383.89
PV13	1749345.69	5949363.15
PV14	1749345.58	5949362.58
SV15	1749345.96	5949362.81
PV16	1749280.54	5949286.89
SV17	1749280.26	5949286.63
SV18	1749279.89	5949286.76
PV19	1749239.12	5949281.29
SV20	1749238.81	5949281.03
SV21	1749238.47	5949281.21

Schedule of Coordinates - Watermain			
Lot #	Easting	Northing	Label
37	1749369.22	5949378.80	WM37
38	1749355.42	5949382.30	WM38
39	1749353.14	5949382.90	WM39
40	1749325.58	5949389.51	WM40
41	1749323.79	5949389.88	WM41
42	1749295.98	5949396.35	WM42
43	1749293.84	5949396.95	WM43
44	1749267.73	5949402.84	WM44
45	1749266.50	5949403.09	WM45
46	1749239.82	5949406.02	WM46
47	1749238.39	5949406.19	WM47
155	1749356.53	5949348.14	WM155
156	1749356.49	5949346.04	WM156
157	1749346.93	5949322.84	WM157
158	1749343.71	5949318.18	WM158
159	1749327.29	5949300.29	WM159
160	1749324.48	5949297.36	WM160
161	1749305.13	5949281.62	WM161
162	1749300.07	5949278.96	WM162
163	1749285.35	5949274.12	WM163
213	1749341.70	5949344.99	WM213
214	1749316.11	5949308.34	WM214
215	1749314.20	5949307.05	WM215



- 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.
 - EXISTING WATERMAIN SOURCED FROM AUCKLAND COUNCIL GIS

LEGEND

- EXISTING WATERMAIN (black dashed line)
- HIGH PRESSURE WATERMAIN (blue solid line)
- LOW PRESSURE WATERMAIN (green solid line)
- SLUICE VALVE (blue circle with 'S')
- PEET VALVE (blue circle with 'P')
- FIRE HYDRANT (blue square with 'FH')
- TAPPING BAND (blue 'X' symbol)
- BLANK CAP (blue 'J' symbol)
- MANIFOLD BOX (blue 'MB' symbol)
- STAGE BOUNDARY (red dashed line)

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	KR	14/09/18

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

**MILLWATER PRECINCT 5
 OREWA WEST
 STAGE 1
 WATERMAIN AS-BUILT
 SHEET 3 OF 3
 (SLC-66650)**

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: 14/09/18

Name: ROWAN HALLAM

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	37503-03A-602-AB	

Document No. K137503 - ARBAN HILL PRECINCT 5 STAGE 3 DRAWINGS SURV AS-BUILT\37503-03A-602-AB-WATERMAIN.DWG