

## Certificate of Acceptance of new water and/or wastewater assets

Watercare reference number:

8 5 2 4 4

Auckland Council EPA number:

6 0 3 1 9 5 5 4

Site details

ob name: Milldale Stage 2C - water & wastewater only

Legal site address: Street number 157 Street name GRAND DRIVE

Suburb OREWA Postcode 0931

Lot number Deposited plan Certificate of Title (DP) number (CT) number

Stage/s that relates to this certificate STAGE 2C

#### Certification statement

Watercare has received the following documentation:

watercase has secenced the following documentations

As-built (PDF)

As-built CAD (DWG)

Watercare
Schedule of assets

CS3

CS3

This Watercare Certificate of Acceptance is issued with respect to all aspects of the engineering water and/or wastewater works covered by the above engineering plan approval and to satisfy Auckland Council's engineering approval completion certificate.

The assets have been connected correctly to the existing public networks.

4

The total value of these assets to be vested to Auckland Council is:

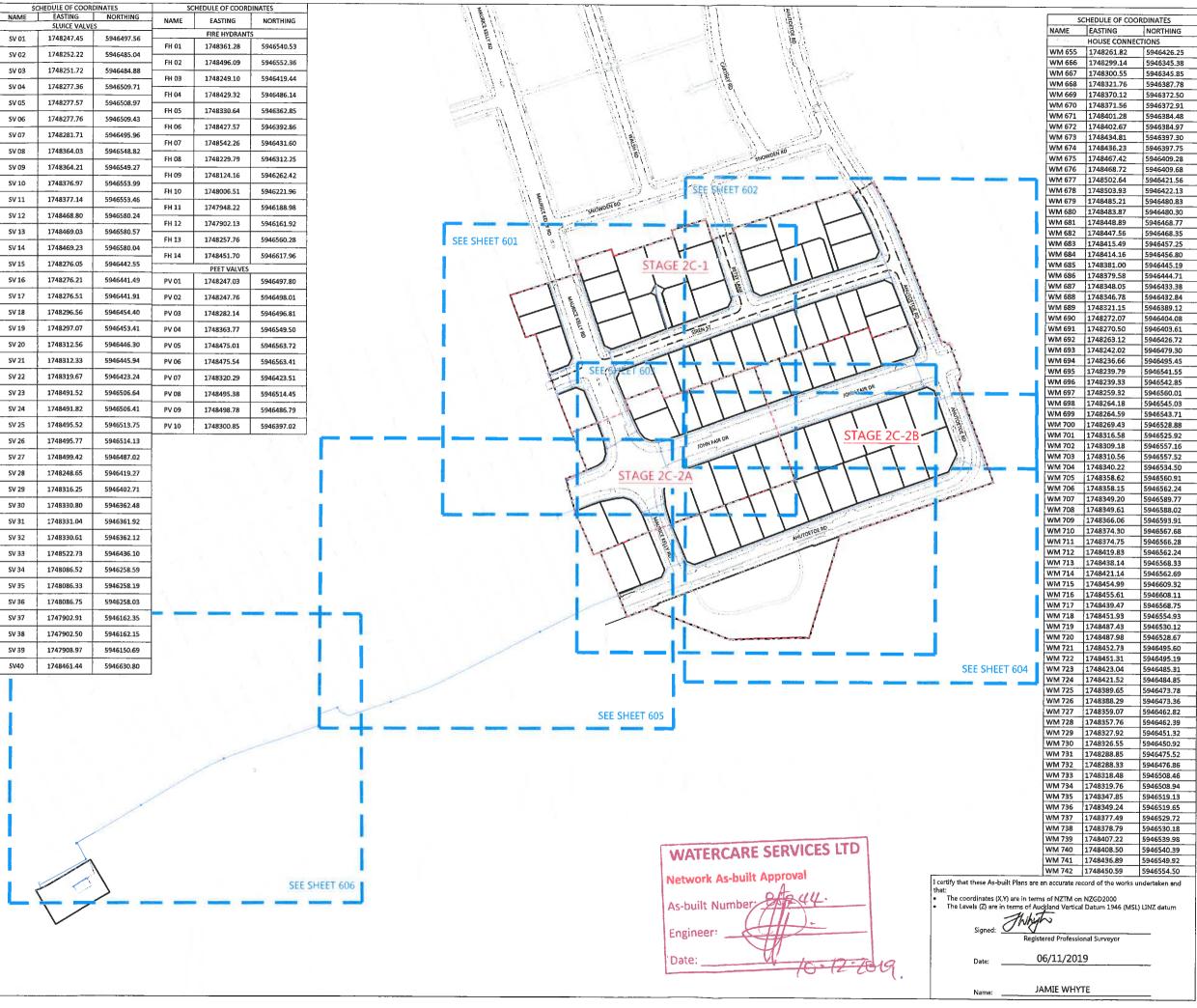
\$ 947,525.61

Watercare representative

Full name MICHAEL Toki

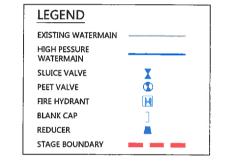
Signature

Date





- 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.
- 3. 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.



RE	VISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION			17/10/19
2 ISSUED FOR 224c		KR	4/11/19

		SURVEYED	WOODS	WOODS Ltd
}		DESIGNED	TB	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON
		DRAWN	SK	AUCKLAND 1023
		CHECKED	ВО	09 308 9229
		APPROVED	JW	WOODS.CO.NZ
ı				

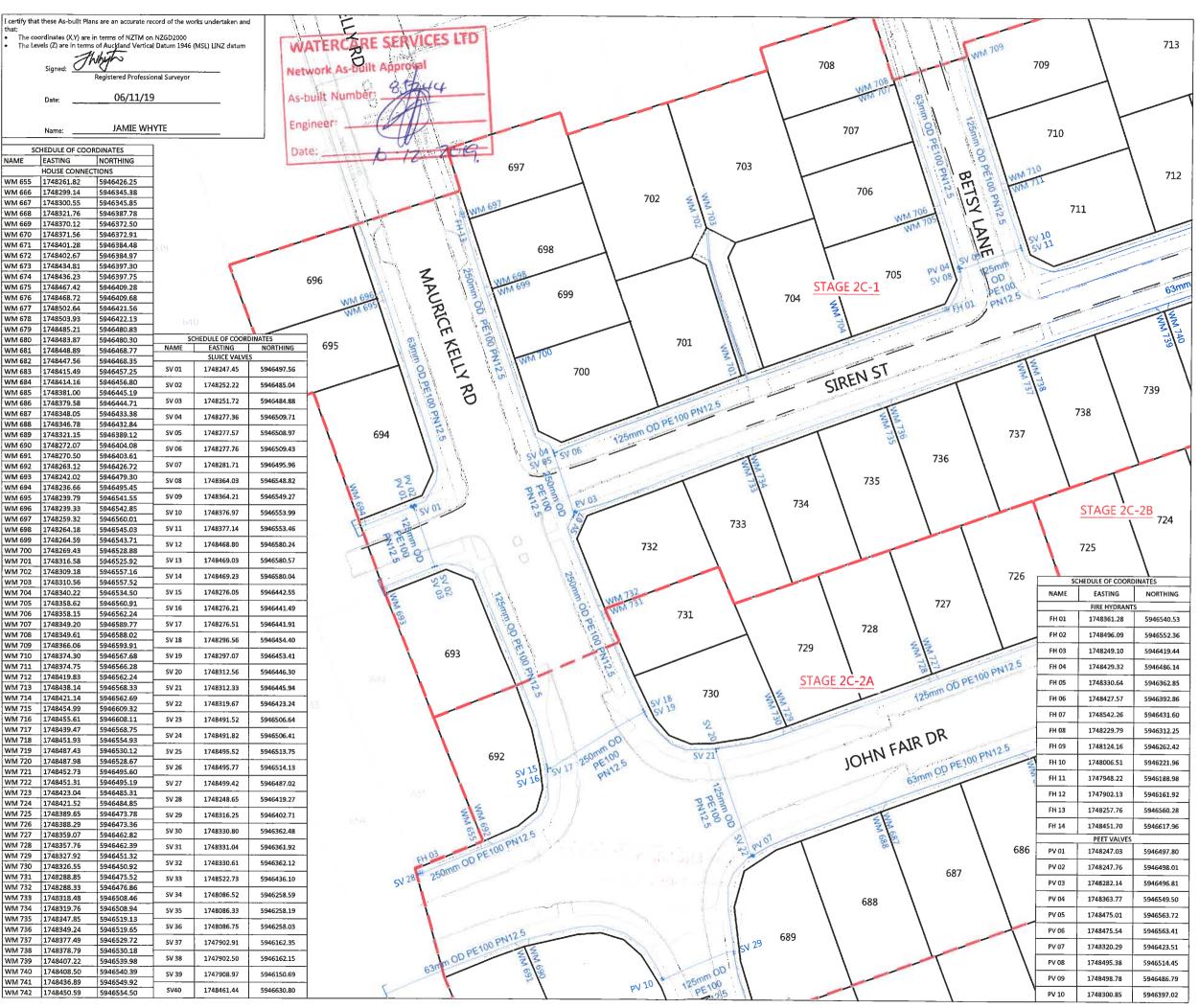




## MILLDALE STAGE 2C

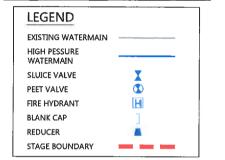
WATERMAIN ASBUILT LAYOUT PLAN SHEET 1 OF 7

STATUS	AS-BUILT	REV
SCALE	1:2500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P18-006-02C-600-AB	





- ALL WORK AND MATERIALS COMPLIES WITH AC STANDARD FOR ENGINEERING DESIGN AND CONSTRUCTION.
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- PIPE SIZES SHOWN ARE EXTERNAL
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4	RE	VISION DETAILS	BY	DATE
┥	1	ISSUED FOR INFORMATION	KR	17/10/19
+	2	ISSUED FOR 224c	KR	4/11/19
1				
-1				

SURVEYED	WOODS	WOODS Ltd
DESIGNED	TB	LEVEL 1 BUILDING B
DRAWN	SK	8 NUGENT STREET, GRAFTON AUCKLAND 1023
CHECKED	ВО	09 308 9229
APPROVED	JW	WOODS.CO.NZ

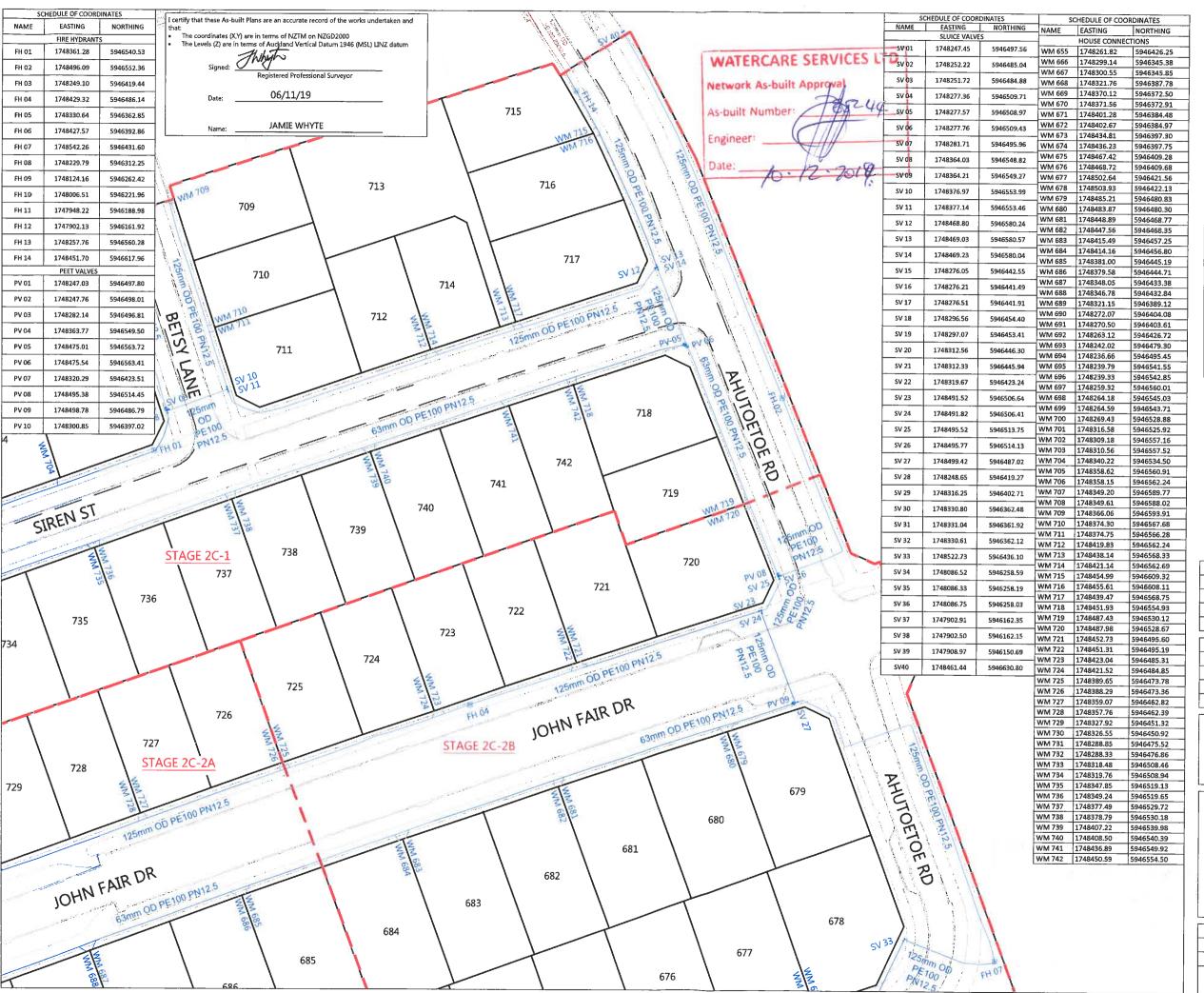




## MILLDALE STAGE 2C

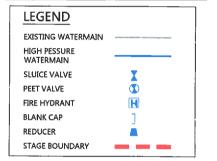
WATERMAIN ASBUILT PLAN SHEET 2 OF 7

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P18-006-02C-601-AB	





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RE	VISION DETAILS	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/10/19
2	ISSUED FOR 224c	KR	4/11/19

SI	URVEYED	WOODS	WOODS Ltd			
D	ESIGNED	TB	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON			
D	RAWN	SK	AUCKLAND 1023			
C	HECKED	ВО	09 308 9229			
Α	PPROVED	JW	WOODS.CO.NZ			

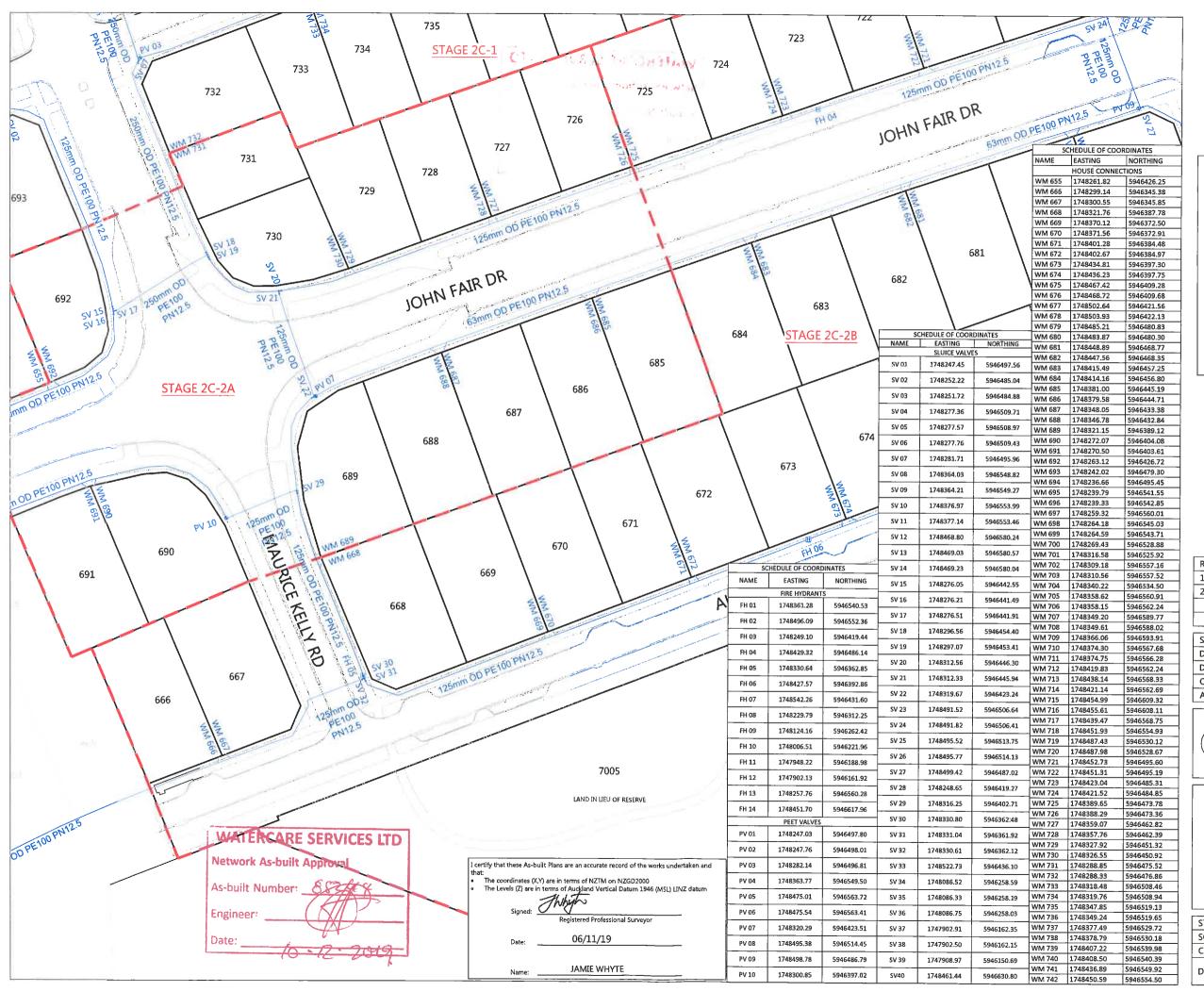




## MILLDALE STAGE 2C

WATERMAIN ASBUILT PLAN SHEET 3 OF 7

STATUS	AS-BUILT	REV
SCALE	1:750 @ A3	2
COUNCIL	AUCKLAND COUNCIL	2
DWG NO	P18-006-02C-602-AB	3





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LEGEND		
EXISTING WATERMAIN		
HIGH PESSURE WATERMAIN		
SLUICE VALVE	X	
PEET VALVE		
FIRE HYDRANT	H	
BLANK CAP	]	
REDUCER		
STAGE BOUNDARY		

- 1				
	REVISION DETAILS			DATE
_	1	ISSUED FOR INFORMATION	KR	17/10/19
-	2	ISSUED FOR 224c	KR	4/11/19
7				

SURVEYED	WOODS	WOODS Ltd
DESIGNED	TB	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON
DRAWN	SK	AUCKLAND 1023
CHECKED	ВО	09 308 9229
APPROVED	WL	WOODS.CO.NZ

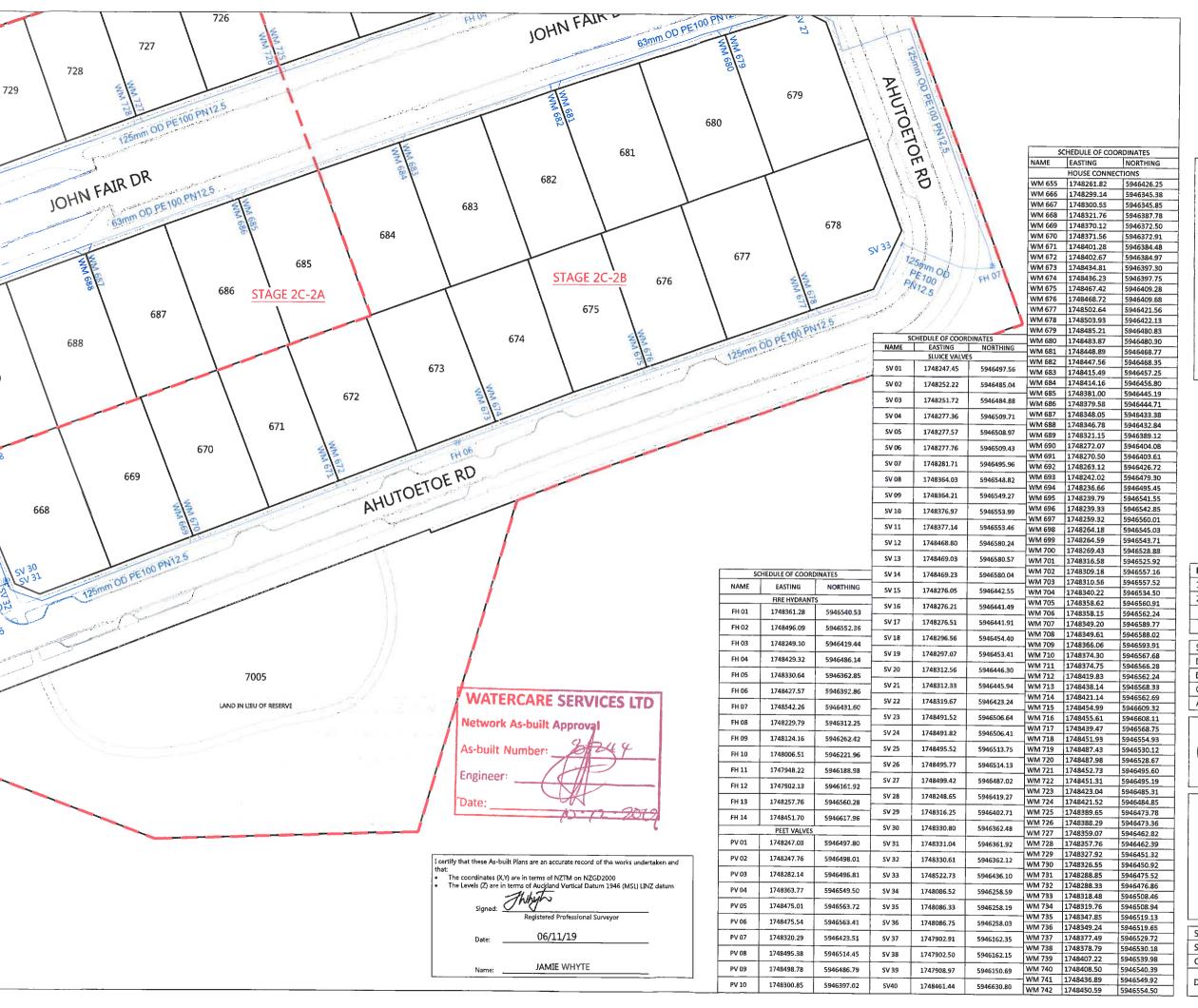




## MILLDALE STAGE 2C

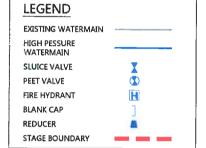
WATERMAIN ASBUILT PLAN SHEET 4 OF 7

STATUS	AS-BUILT	REV	l
SCALE	1:500 @ A3	2	l
COUNCIL	AUCKLAND COUNCIL		l
DWG NO	P18-006-02C-603-AB	3	





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1				
	RE	VISION DETAILS	BY	DATE
4	1	ISSUED FOR INFORMATION	KR	17/10/19
1	2	ISSUED FOR 224c	KR	4/11/19
1				
1	1			

SURVEYED	WOODS	WOODS Ltd
DESIGNED	ТВ	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON
DRAWN	SK	AUCKLAND 1023
CHECKED	ВО	09 308 9229
APPROVED	JW	WOODS.CO.NZ

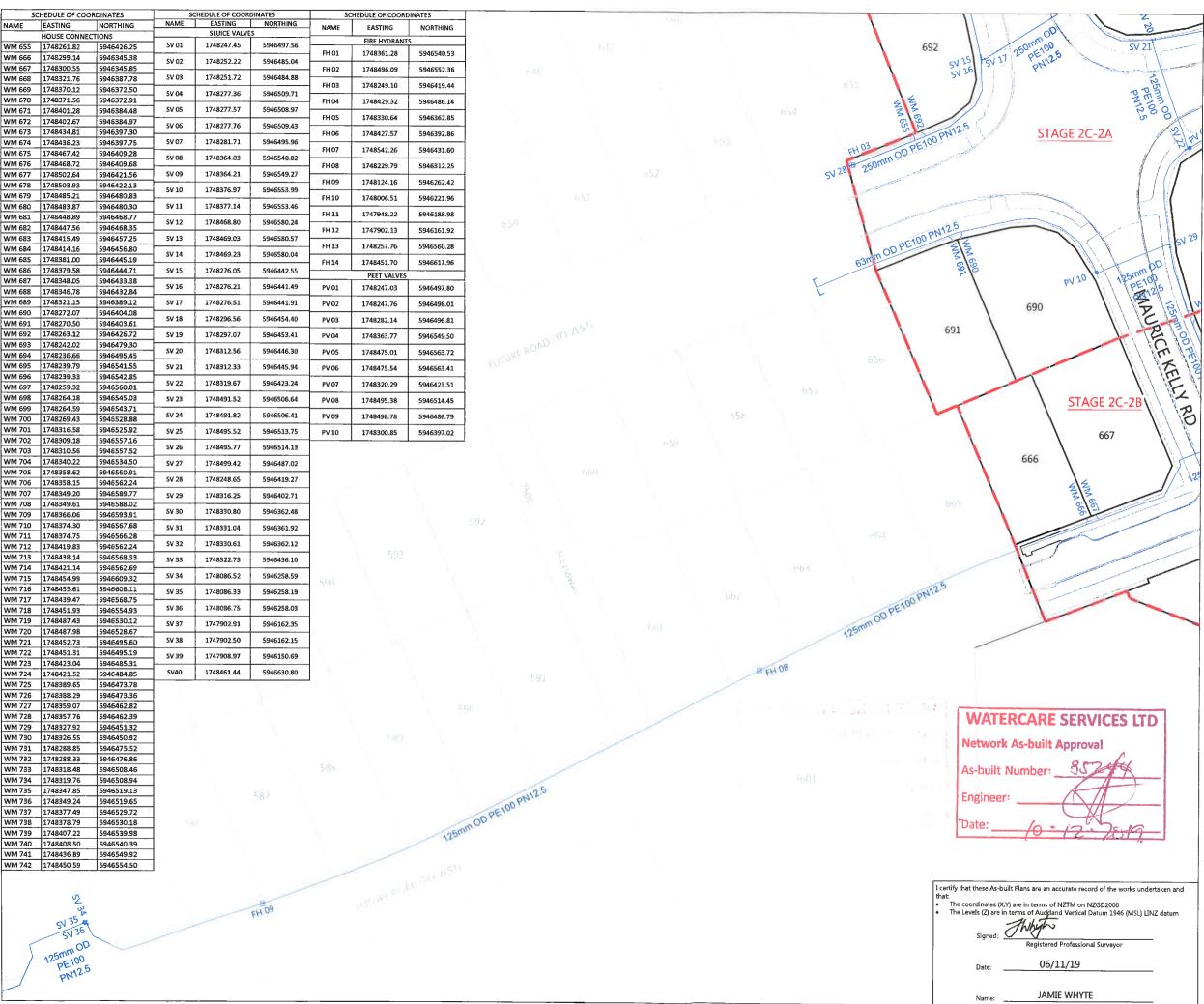




## MILLDALE STAGE 2C

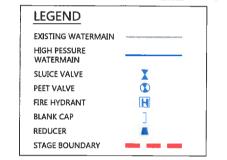
WATERMAIN ASBUILT PLAN SHEET 5 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	
COUNCIL	AUCKLAND COUNCIL	2
DWG NO	P18-006-02C-604-AB	





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2	ISSUED FOR 224c	KR	4/11/19

SURVEYED	WOODS	WOODS Ltd
DESIGNED	TB	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON
DRAWN	SK	AUCKLAND 1023
CHECKED	ВО	09 308 9229
APPROVED	JW	WOODS.CO.NZ





## MILLDALE STAGE 2C

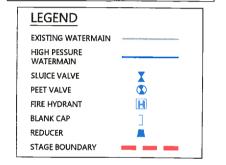
WATERMAIN ASBUILT PLAN SHEET 6 OF 7

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	2
COUNCIL	AUCKLAND COUNCIL	2
DWG NO	P18-006-02C-605-AB	3

A THE PART OF	000000000000000000000000000000000000000		CUEDINE OF COOR					
	COORDINATES	NAME	EASTING	NORTHING		HEDULE OF COORE	T-	
NAME EASTING	NORTHING		SLUICE VALVE		NAME	EASTING	NORTHING	
WM 655 1748261.8	NNECTIONS 2 5946426.25	SV 01	1748247.45	5946497.56		FIRE HYDRANT	s	
WM 666 1748299.1		<del> </del>	<del>                                     </del>		FH 01	1748361.28	5946540.53	
WM 667 1748300.5		SV 02	1748252.22	5946485.04	FH 02	1748496.09	5946552.36	
WM 668 1748321.7		SV 03	1748251.72	5946484.88	11102	1746430.03	3546332.36	
WM 669 1748370.1		51.04	4740077.00	F046500 74	FH 03	1748249.10	5946419.44	
WM 670 1748371.5		SV 04	1748277.36	5946509.71	FH 04	1748429.32	5946486.14	
WM 671 1748401.2		SV 05	1748277.57	5946508.97		27-10-125.52	3340400.14	
WM 672 1748402.6	7 5946384.97	FVAC	1740277776	5046500.40	FH 05	1748330.64	5946362.85	546
WM 673 1748434.8	1 5946397.30	SV 06	1748277.76	5946509.43	FH 06	1748427.57	5946392.86	
WM 674 1748436.2		5V 07	1748281.71	5946495.96	<u> </u>		3340332.00	
WM 675 1748467.4	2 5946409.28	CV 00	1749264.02	F04CF4B B2	FH 07	1748542.26	5946431.60	
WM 676 1748468.7	2 5946409.68	SV 08	1748364.03	5946548.82	FH 08	1748229.79	5946312.25	
WM 677 1748502.6	4 5946421.56	SV 09	1748364.21	5946549.27				
WM 678 1748503.9	3 5946422.13	SV 10	1748376.97	5946553.99	FH 09	1748124.16	5946262.42	
WM 679 1748485.2	1 5946480.83	34 10	1748370.37	3940333.99	FH 10	1748006.51	5946221.96	
WM 680 1748483.8	7 5946480.30	SV 11	1748377.14	5946553.46				
WM 681 1748448.8		SV 12	1748468.80	5946580.24	FH 11	1747948.22	5946188.98	273
WM 682 1748447.50	6 5946468.35		17-10-100.00	3340300.24	FH 12	1747902.13	5946161.92	
WM 683 1748415.49		SV 13	1748469.03	5946580.57			_	
WM 684 1748414.1		SV 14	1748469.23	5946580.04	FH 13	1748257.76	5946560.28	
WM 685 1748381.0	0 5946445.19		1740403.23	3340380.04	FH 14	1748451.70	5946617.96	
WM 686 1748379.5		SV 15	1748276.05	5946442.55		PEET VALVES		
WM 687 1748348.09		SV 16	1748276.21	5946441.49	PV 01	1748247.03		
WM 688 1748346.7		<del>                                     </del>		-		1740247.03	5946497.80	
WM 689 1748321.1		SV 17	1748276.51	5946441.91	PV 02	1748247.76	5946498.01	
WM 690 1748272.0		SV 18	1748296.56	5946454.40	PV 03	1748282.14	5946496.81	576
WM 691 1748270.56								576 <b>y</b>
WM 692 1748263.13		SV 19	1748297.07	5946453.41	PV 04	1748363.77	5946549.50	v <u>v</u>
WM 693 1748242.03		SV 20	1748312.56	5946446.30	PV 05	1748475.01	5946563.72	584 SV 35 4
WM 694 1748236.60	<del></del>				<del></del>			CV 30
WM 695 1748239.79		SV 21	1748312.33	5946445.94	PV 06	1748475.54	5946563.41	588
WM 696 1748239.33		SV 22	1748319.67	5946423.24	PV 07	1748320.29	5946423.51	
WM 697 1748259.33 WM 698 1748264.18					<del></del>			125min 00 PE 100 PN 12.5
WM 699 1748264.19		SV 23	1748491.52	5946506.64	PV 08	1748495.38	5946514.45	PMIZ
WM 700 1748269.43		SV 24	1748491.82	5946506.41	PV 09	1748498.78	5946486.79	58.
WM 701 1748316.5		SV 25	1748495.52	F046512.76				
WM 702 1748309.18		3 7 23	1746495.52	5946513.75	PV 10	1748300.85	5946397.02	581
WM 703 1748310.5		SV 26	1748495.77	5946514.13				
WM 704 1748340.2		SV 27	1748499.42	5946487.02				
WM 705 1748358.62		<del>}</del>	-					580
WM 706 1748358.15		SV 28	1748248.65	5946419.27				
WM 707 1748349.20	0 5946589.77	SV 29	1748316.25	5946402.71	00			
WM 708 1748349.6	1 5946588.02	$\vdash$			-			
WM 709 1748366.0	6 5946593.91	SV 30	1748330.80	5946362.48				74
WM 710 1748374.30	0 5946567.68	SV 31	1748331.04	5946361.92	1			FH 10
WM 711 1748374.7	5 5946566.28	}			-			
WM 712 1748419.8	3 5946562.24	SV 32	1748330.61	5946362.12				125
WM 713 1748438.14	4 5946568.33	SV 33	1748522.73	5946436.10				20 PM
WM 714 1748421.14								DETIDO
WM 715 1748454.99		SV 34	1748086.52	5946258.59				125mm OD PE
WM 716 1748455.6	<del></del>	SV 35	1748086.33	5946258.19				3.35mm
WM 717 1748439.47		SV 36	1748086.75	5946258.03	1			
WM 718 1748451.9		3430	1748080.73	3340236.05	-			
WM 719 1748487.43 WM 720 1748487.98		SV 37	1747902.91	5946162.35		E.A.		
		SV 38	1747902.50	5946162.15	1	512		
WM 721 1748452.73 WM 722 1748451.33		<del>                                     </del>			1			
WM 723 1748423.04		SV 39	1747908.97	5946150.69	}			
WM 724 1748421.52		SV40	1748461.44	5946630.80	3.		भा	
WM 725 1748389.6	<del> </del>	1	<u> </u>	Α	1		1111	
WM 726 1748388.29		1					EL	
WM 727 1748359.03		1						
WM 728 1748357.76		]					01 5171	WATERCARE
WM 729 1748327.92		]						WATERCARE SERVICES LTD
WM 730 1748326.5	5 5946450.92	100						Note that the second se
		ur Cl			1			Network As-built Approvate
WM 731 1748288.8	5 5946475.52	4						0.6
WM 732 1748288.33	5 5946475.52 3 5946476.86	1						
WM 732 1748288.33 WM 733 1748318.48	5 5946475.52 3 5946476.86 8 5946508.46		5 2					As-built Number:
WM 732 1748288.33 WM 733 1748318.48 WM 734 1748319.76	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94	-	S 31					As-built Number:
WM 732 1748288.3 WM 733 1748318.4 WM 734 1748319.7 WM 735 1748347.8	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13		8					
WM 732 1748288.33 WM 733 1748318.44 WM 734 1748319.76 WM 735 1748347.83 WM 736 1748349.24	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65	-	8					As-built Number: Engineer:
WM 732 1748288.3 WM 733 1748318.4 WM 734 1748319.7 WM 735 1748347.8 WM 736 1748349.2 WM 737 1748377.4	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72		EH 75 18 23					Engineer:
WM 732 1748288.3 WM 733 1748318.4 WM 734 1748319.7 WM 735 1748347.8 WM 736 1748347.8 WM 737 1748377.4 WM 738 1748378.7	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18		8					Engineer:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748347.8! WM 736 1748349.2! WM 737 1748377.4; WM 738 1748378.7; WM 739 1748407.2:	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946539.98		8	96.				Engineer:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748347.8! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748378.7: WM 739 1748407.2: WM 740 1748408.50	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39		EH 75	Srl 39				Engineer:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39		EH 75	5139				Engineer:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748347.8! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748378.7: WM 739 1748407.2: WM 740 1748408.50	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39		EH 75	5139				Engineer:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	-10	EH 75	51/39				Engineer:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	op PF	EH 75	SV 39				Engineer:  Date: 2- 7949  I certify that these As-built Plans are an accurate record of the works undertake
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	omm OD PE	EH 75	SU 39				Engineer:  Date:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	Smm OD PF	EH 75	5139				I certify that these As-built Plans are an accurate record of the works undertake that:  The coordinates (X,Y) are in terms of NZTM on NZGD2000  The Levels (Z) are in terms of Audiand Vertical Datum 1946 (NSS) NNZ december 1945 (NSS) NNZ december
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	Smm OD PE	100 PM12.5	5139				I certify that these As-built Plans are an accurate record of the works undertake that:  The coordinates (X,Y) are in terms of NZTM on NZGD2000  The Levels (Z) are in terms of Audiand Vertical Datum 1946 (NSS) NNZ december 1945 (NSS) NNZ december
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	Smm OD PF	EH 75	5439				I certify that these As-built Plans are an accurate record of the works undertake that:  The coordinates (X,Y) are in terms of NZTM on NZGD2000
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39		100 PM125	5139				I certify that these As-built Plans are an accurate record of the works undertake 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 de
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	WASTI	HIZ TOO PAIZS	5139				I certify that these As-built Plans are an accurate record of the works undertake 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 de Signed:  Registered Professional Surveyor
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	WASTI	100 PM125	SI 39				I certify that these As-built Plans are an accurate record of the works undertake 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 de Signed:
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	WASTI PL	THIR THIR THE THE THIR THE THE THIR THE THE THIR THE THIR THE THE THIR THE THE THE THE THIR THE	5139				I certify that these As-built Plans are an accurate record of the works undertake that:  The coordinates (X,Y) are in terms of NZTM on NZGD2000  The Levels (2) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ data signed:  Registered Professional Surveyor
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748349.2! WM 736 1748349.2! WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 1748436.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	WASTI PL	HIZ TOO PAIZS	5139				I certify that these As-built Plans are an accurate record of the works undertake that:  • The coordinates (XY) are in terms of NZTM on NZGD2000 • The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ de Signed:  Registered Professional Surveyor  Date: 06/11/19
WM 732 1748288.3: WM 733 1748318.4! WM 734 1748319.7! WM 735 1748347.8! WM 736 1748349.2: WM 737 1748377.4! WM 738 1748377.4! WM 739 1748407.2: WM 740 1748408.5! WM 741 174846.8!	5 5946475.52 3 5946476.86 8 5946508.46 6 5946508.94 5 5946519.13 4 5946519.65 9 5946529.72 9 5946530.18 2 5946530.98 0 5946540.39	WASTI PL	THIR THIR THE THE THIR THE THE THIR THE THE THIR THE THIR THE THE THIR THE THE THE THE THIR THE	51/39				I certify that these As-built Plans are an accurate record of the works undertake that:  The coordinates (X,Y) are in terms of NZTM on NZGD2000  The Levels (2) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ data signed:  Registered Professional Surveyor



- 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.
- 3. 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.
- 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.



RE	VISION DETAILS	BY	DATE
1	ISSUED FOR INFORMATION	KR	17/10/19
2	ISSUED FOR 224c	KR	4/11/19

SURVEYED	WOODS	WOODS Ltd
DESIGNED	ТВ	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON
DRAWN	SK	AUCKLAND 1023
CHECKED	ВО	09 308 9229
APPROVED	JW	WOODS.CO.NZ

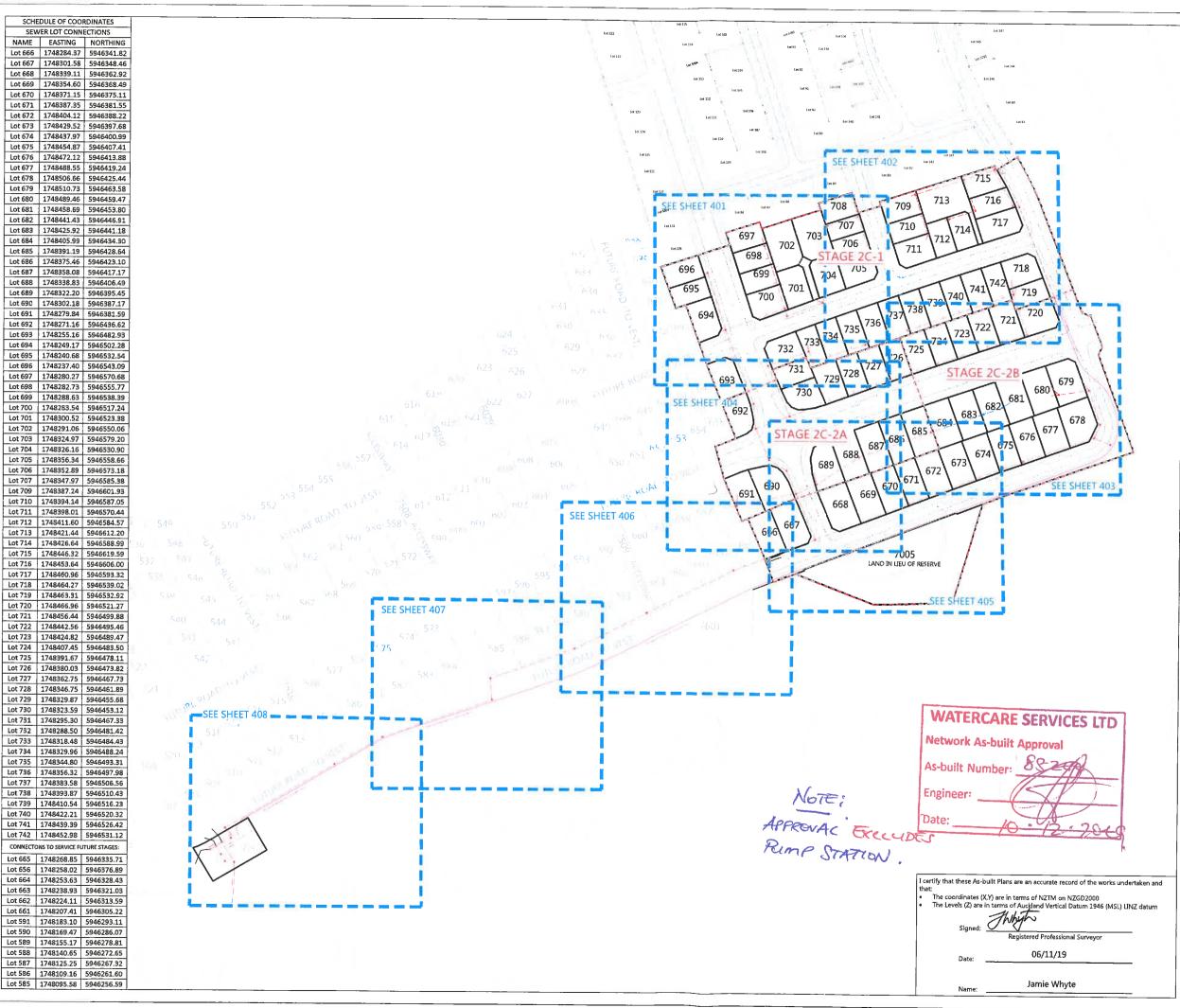




#### MILLDALE STAGE 2C

WATERMAIN ASBUILT PLAN SHEET 7 OF 7

1	STATUS	AS-BUILT	REV
	SCALE	1:500 @ A3	
	COUNCIL	AUCKLAND COUNCIL	
	DWG NO	P18-006-02C-606-AB	





\_\_\_\_

#### **LEGEND**

NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER UPDATED SEWER DATA

LOT BOUNDARIES

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 150mm@uPVC CLASS SN16 UNLESS STATED OTHERWISE.
- 3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
- ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED,
- 5. ALL PRIVATE LOT CONNECTIONS ARE 100mm@
- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY.
- 7. 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.

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	KR	10/09/19
		<b></b>	

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

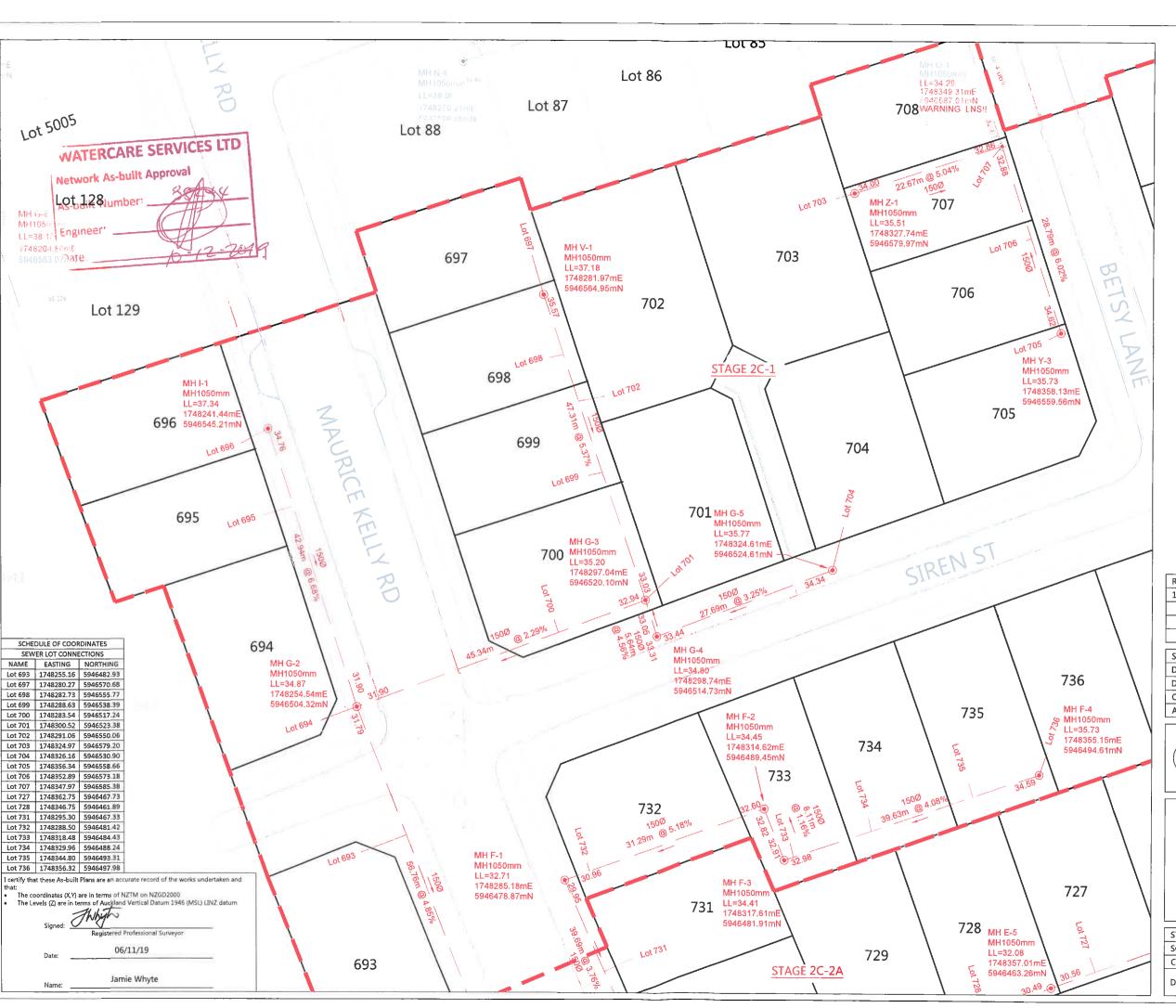




### MILLDALE STAGE 2C

WASTEWATER ASBUILT OVERALL LAYOUT SHEET 1 of 9

STATUS
SCALE
COUNCIL
DWG NO





NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER

UPDATED SEWER DATA

LOT BOUNDARIES

STAGE BOUNDARY

LL= 25.53

#### NOTES

- 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.
- ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
- 5. ALL PRIVATE LOT CONNECTIONS ARE 100mm@
- 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.

RE	REVISION DETAILS		DATE
1	ISSUED FOR INFORMATION	KR	10/09/19
	-		

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

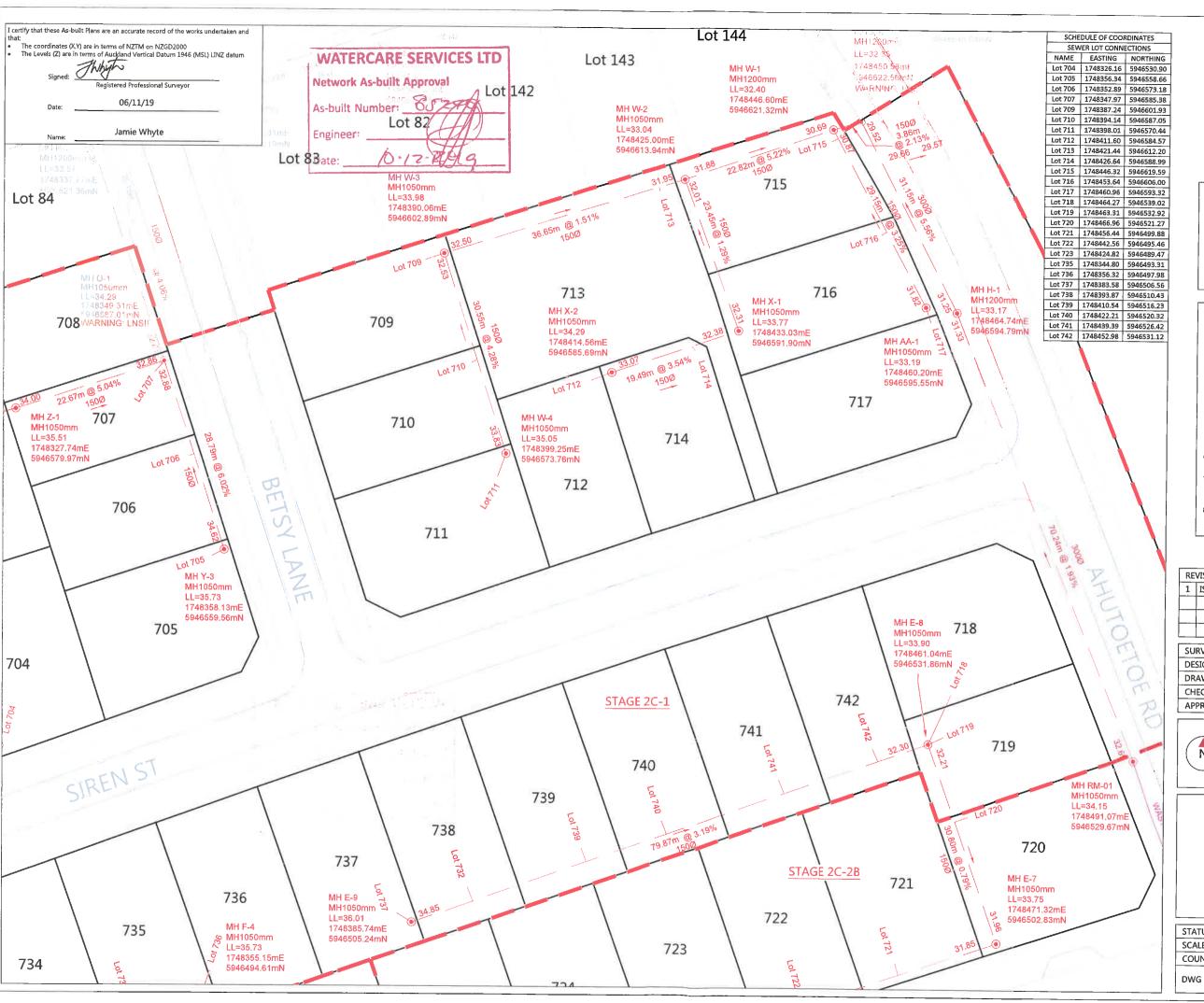




#### MILLDALE STAGE 2C

WASTEWATER ASBUILT PLAN SHEET 2 of 9

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	Т Т
DWG NO P18-006-02C-401-AB		3





LL= 25.53

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#### LEGEND

NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER

UPDATED SEWER DATA

LOT BOUNDARIES

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 150mm@ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
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- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

RE	VISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION		KR	10/09/19

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

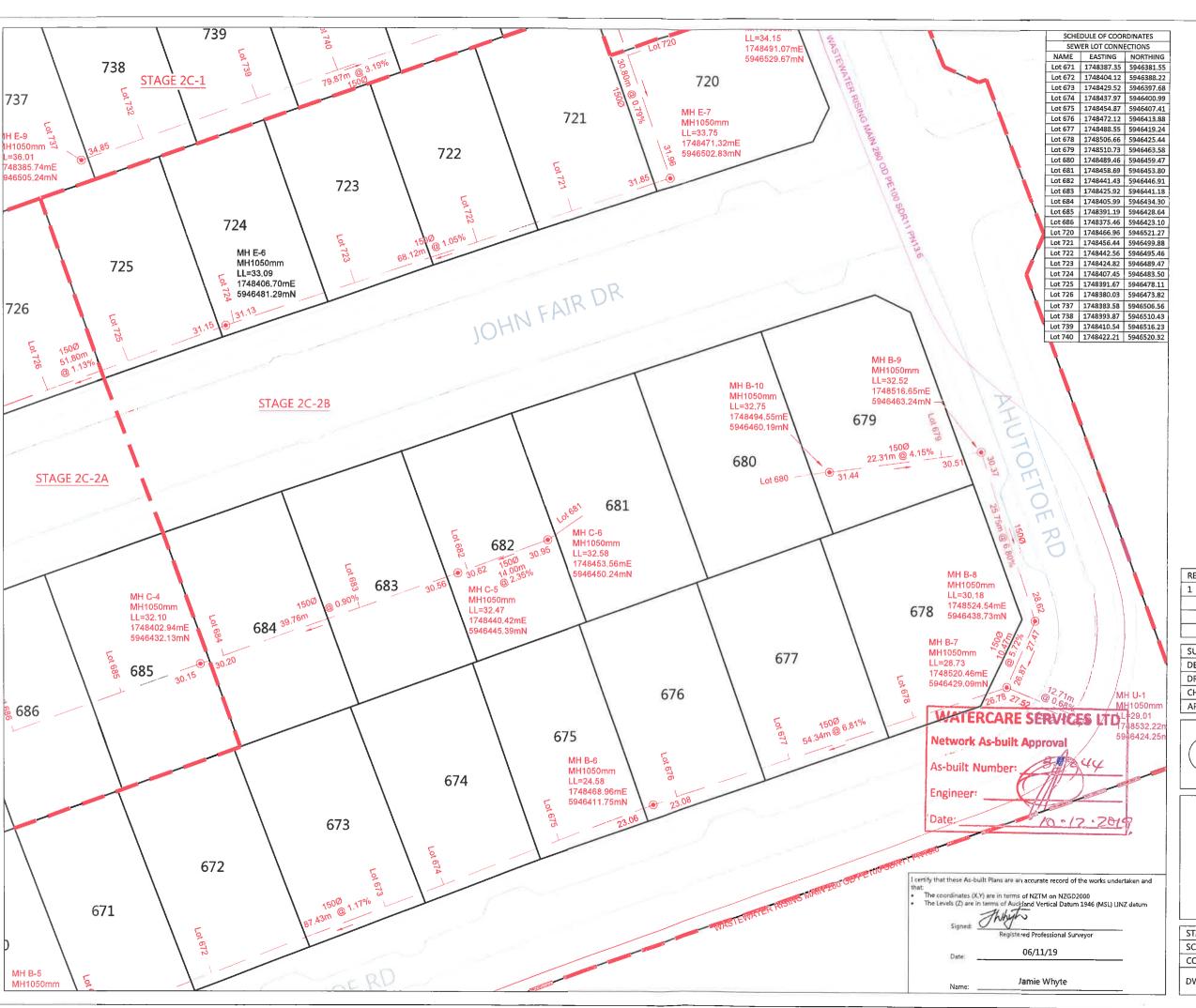




## MILLDALE STAGE 2C

WASTEWATER ASBUILT PLAN SHEET 3 of 9

STATUS	ISSUED FOR INFORMATION	REV	
SCALE	1:500 @ A3	-	
COUNCIL	AUCKLAND COUNCIL	T	
DWG NO	P18-006-02C-402-AB		





NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER

UPDATED SEWER DATA

LOT BOUNDARIES

STAGE BOUNDARY



#### NOTES

- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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- 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	KR	10/09/19

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

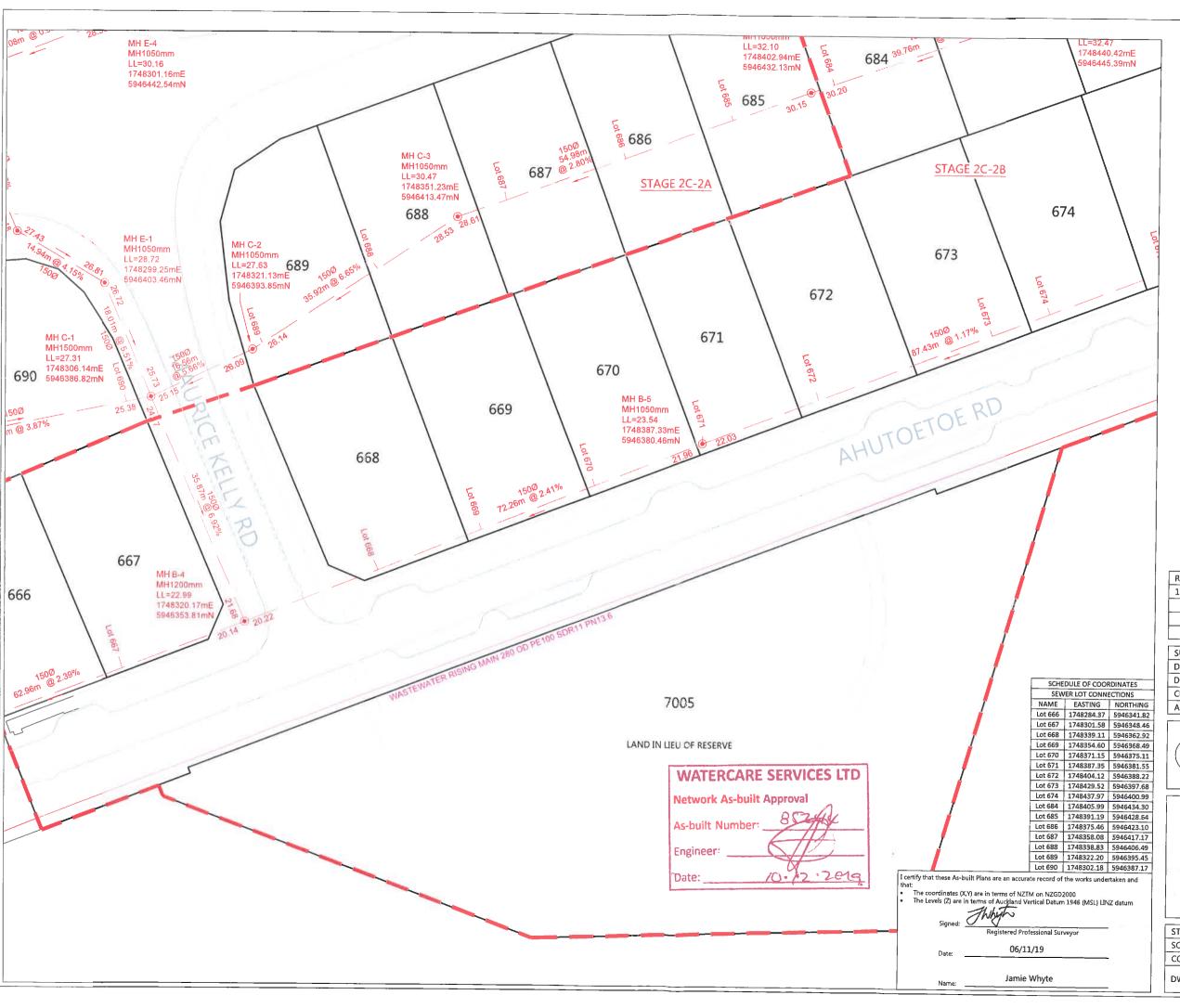




MILLDALE STAGE 2C WASTEWATER ASBUILT PLAN

SHEET 4 of 9

STATUS	ISSUED FOR INFORMATION	REV
SCALE	SCALE 1:500 @ A3	
COUNCIL	AUCKLAND COUNCIL	Т
DWG NO	P18-006-02C-403-AB	





# LEGEND NEW SANITARY SEWER MANHOLE NEW SANITARY SEWER EXISTING SANITARY SEWER UPDATED SEWER DATA LL= 25.53 LOT BOUNDARIES STAGE BOUNDARY

#### <u>NOTES</u>

- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
- ALL SANITARY SEWER LINES ARE 150mm@ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
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- ALL PIPE CROSSINGS UNDER ROADS AND ACCESSWAYS HAVE BEEN HARDFILL BACKFILLED.
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- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

RE	REVISION DETAILS		DATE
_1	1 ISSUED FOR INFORMATION		10/09/19

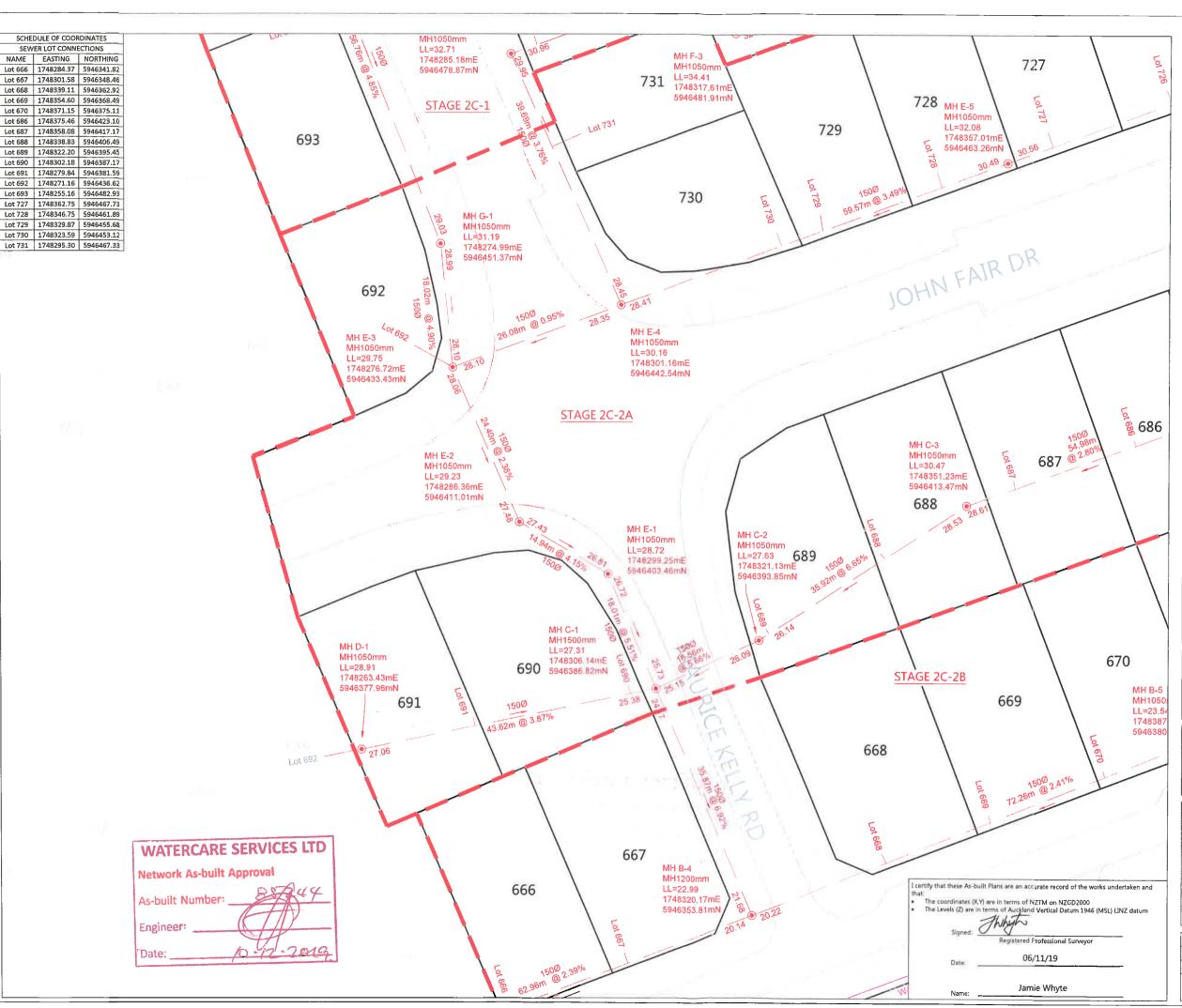
SURVEYED	WOODS	WOODS Ltd
DESIGNED	AF	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTON
DRAWN	SK	AUCKLAND 1023
CHECKED	ВО	09 308 9229
APPROVED	JW	WOODS.CO.NZ





MILLDALE STAGE 2C WASTEWATER ASBUILT PLAN SHEET 6 of 9

STATUS	ISSUED FOR INFORMATION	REV	
SCALE	1:500 @ A3		
COUNCIL	AUCKLAND COUNCIL	1	
DWG NO P18-006-02C-405-			





NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER

UPDATED SEWER DATA

LOT BOUNDARIES

STAGE BOUNDARY

LL= 25.53

#### NOTES

- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
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- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

RE	REVISION DETAILS		DATE
1	1 ISSUED FOR INFORMATION		10/09/19

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

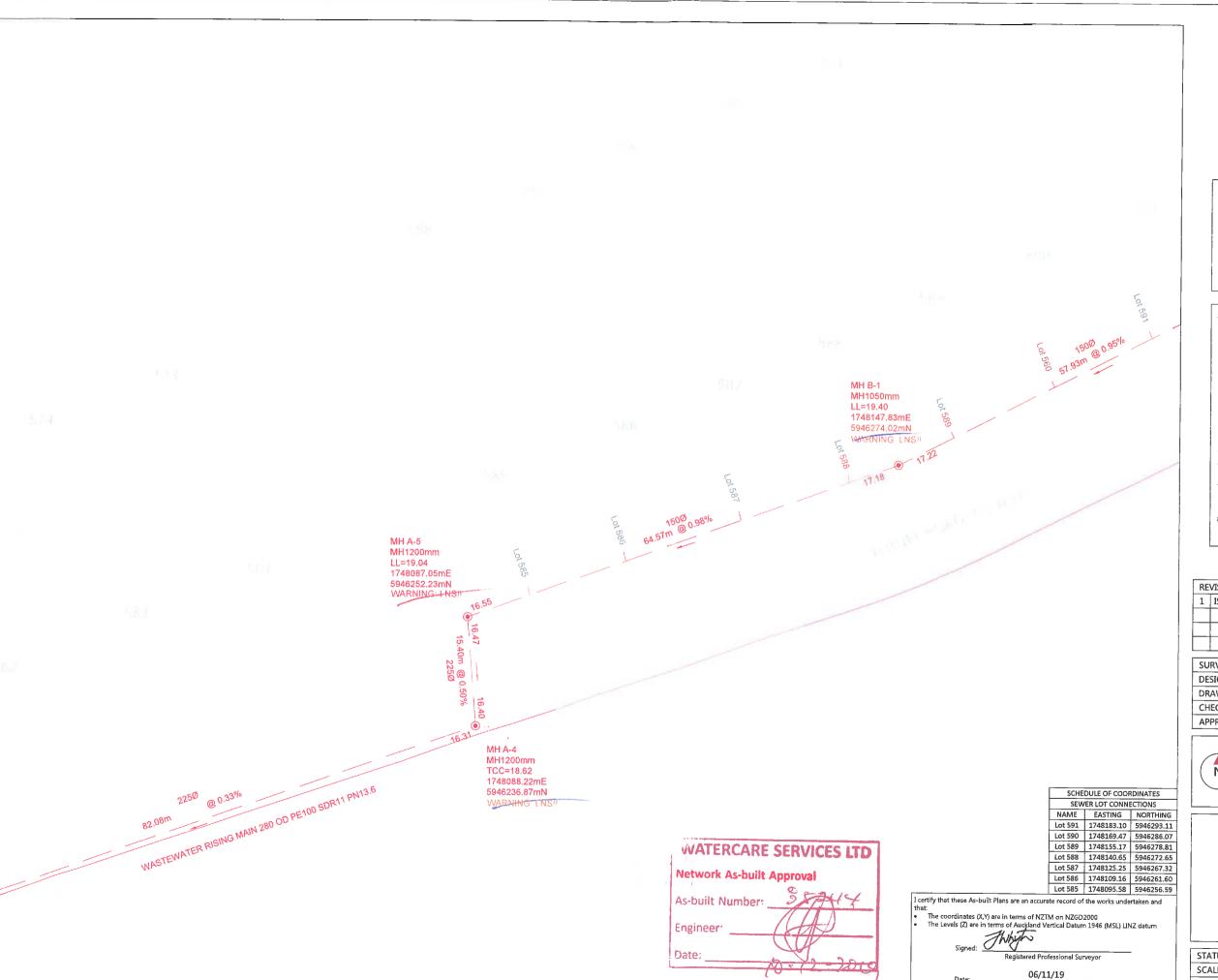




#### MILLDALE STAGE 2C WASTEWATER

ASBUILT PLAN SHEET 5 of 9

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	+
DWG NO	NO P18-006-02C-404-AB	





LL= 25.53

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#### LEGEND

NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER

UPDATED SEWER DATA

LOT BOUNDARIES

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 150mm@ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
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- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY MEASURED DATA AND CONTRACTOR RECEIVED DATA.

RE	REVISION DETAILS		DATE	
1	. ISSUED FOR INFORMATION		10/09/19	

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



Jamie Whyte

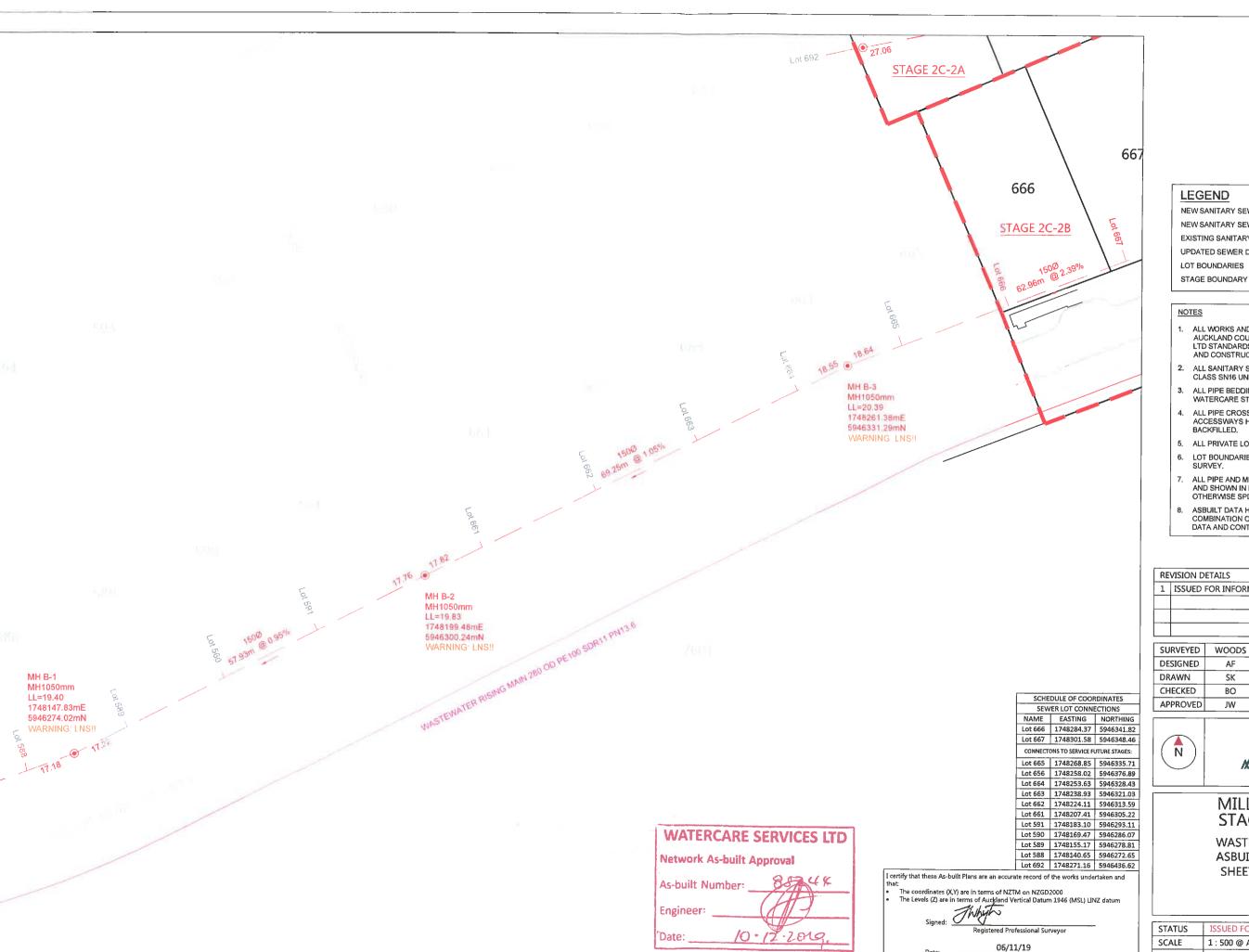


MILLDALE STAGE 2C WASTEWATER ASBUILT PLAN

SHEET 8 of 9

SSUED FOR INFORMATION

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	1
DWG NO	P18-006-02C-407-AB	





NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER

EXISTING SANITARY SEWER

UPDATED SEWER DATA

LOT BOUNDARIES

LL= 25.53 -----

## ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.

- ALL SANITARY SEWER LINES ARE 150mm@ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
- 3. ALL PIPE BEDDING COMPLIES WITH WATERCARE STANDARDS.
- 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	ISSUED FOR INFORMATION	KR	10/09/19

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



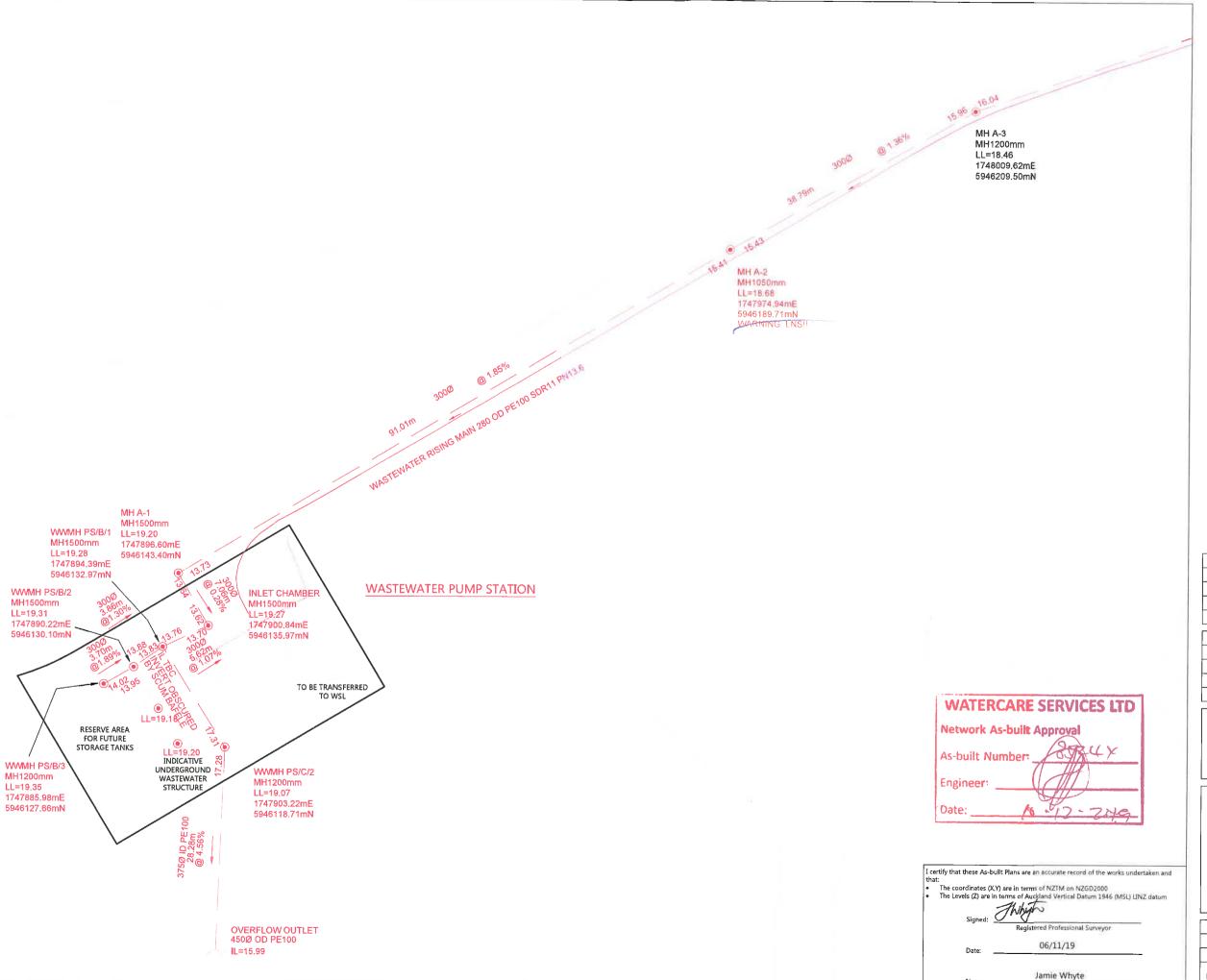
Jamie Whyte



## MILLDALE STAGE 2C

WASTEWATER **ASBUILT PLAN** SHEET 7 of 9

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:500 @ A3	
COUNCIL	AUCKLAND COUNCIL	1
DWG NO	P18-006-02C-406-AB	





NEW SANITARY SEWER MANHOLE

NEW SANITARY SEWER EXISTING SANITARY SEWER

UPDATED SEWER DATA

LOT BOUNDARIES

STAGE BOUNDARY

LL= 25.53 -----

#### <u>NOTES</u>

- ALL WORKS AND MATERIALS COMPLY WITH AUCKLAND COUNCIL & WATERCARE SERVICES LTD STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION.
- ALL SANITARY SEWER LINES ARE 150mm@ uPVC CLASS SN16 UNLESS STATED OTHERWISE.
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- 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.

REVISION DETAILS			DATE
1	ISSUED FOR INFORMATION	KR	10/09/19

SURVEYED WOODS		WOODS Ltd	
DESIGNED	AF	LEVEL 1 BUILDING B 8 NUGENT STREET, GRAFTOI AUCKLAND 1023	
DRAWN	SK		
CHECKED	ВО	09 308 9229	
APPROVED	JW	WOODS.CO.NZ	





**MILLDALE** STAGE 2C

**WASTEWATER ASBUILT PLAN** SHEET 9 of 9

STATUS	ISSUED FOR INFORMATION	REV	
SCALE	1:500 @ A3	-1	
COUNCIL	AUCKLAND COUNCIL	1	
DWG NO	P18-006-02C-408-AB		