[illegible]

➤NOTES:

BEARING AND COORDINATE DATUM IS
NEW ZEALAND TRANSVERSE MERCATOR PROJECTION

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DiNi Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DJ2 LASER PLUMMIT

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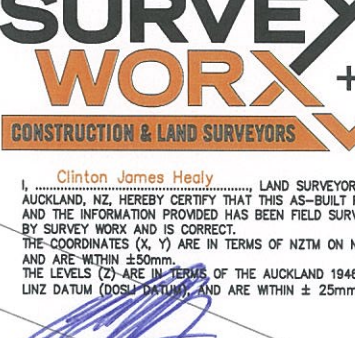
SPINNAKER BAY LID


► PROJECT

SOLWAY
285 ARA - KOTINGA

STORMWATER ASBUILT
STAGE 1 & 2
SHEET LOCATION PLAN


> SCALE 1:2500 (A1) 1:5000 (A3)	
> DRAWING No 55-932-605-10	> SHEET 1 of 1
> REVISION 1	



SURVEY
WORK + 

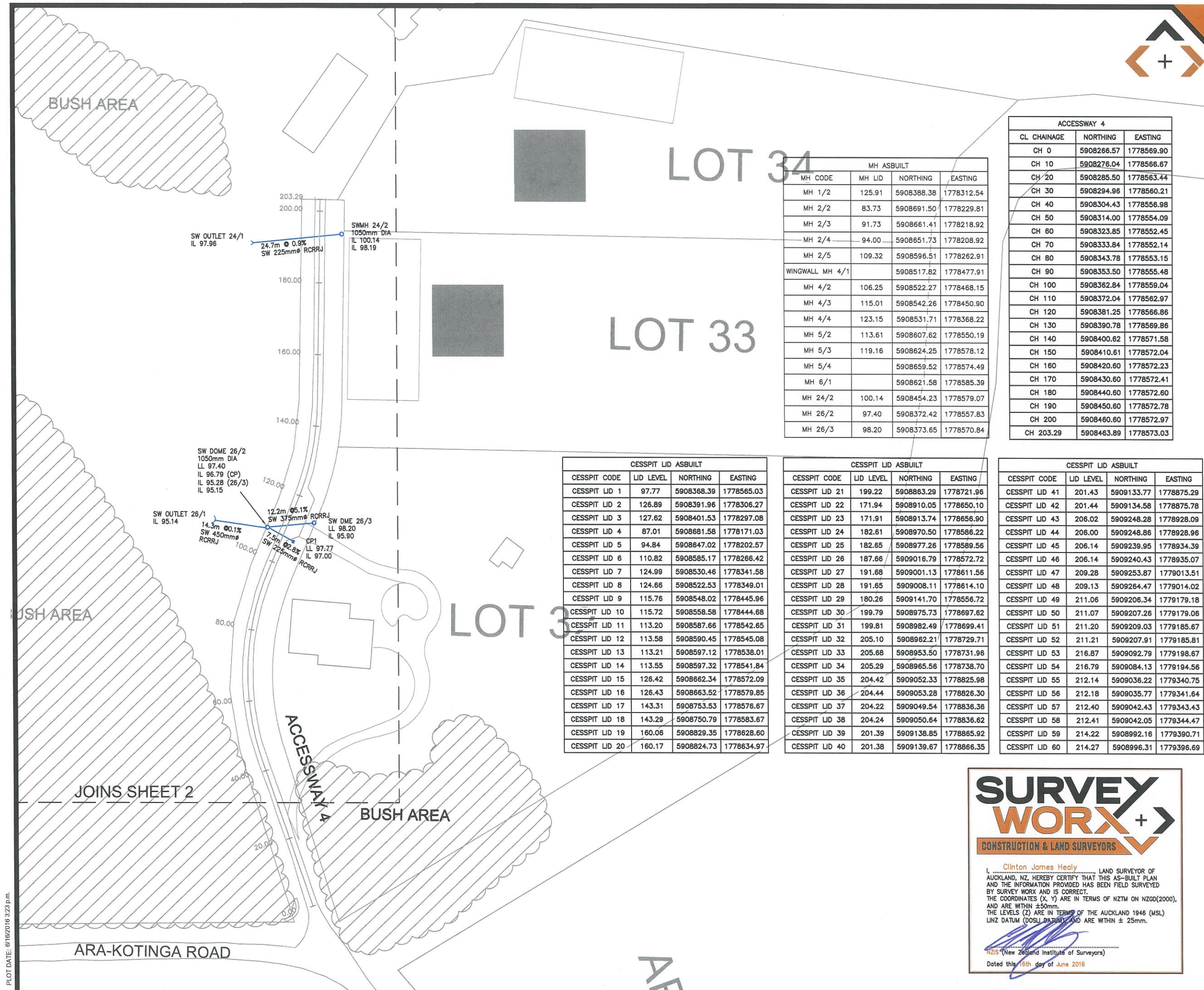
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AUCKLAND, NZ, HEREBY CERTIFY THAT THIS AS-BUILT PLAN
AND THE INFORMATION PROVIDED HAS BEEN FIELD SURVEYED
BY SURVEY WORK AND IS CORRECT.
THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000)
AND ARE WITHIN ±50mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1948 (MSL)
LINZ DATUM (ODSL DATUM), AND ARE WITHIN ± 25mm.



.....
NZIS (New Zealand Institute of Surveyors)

Dated this 6th day of June, 2016



SURVEYED	SWX	14.07.2015	APPROVED	DATE
DESIGNED				
DRAWN	LK	14.07.2015		
CHECKED				
APPROVED				
REVISION	CHANGES		CHECKED	DATE
0	ORIGINAL ISSUE		MC	15.07.15
1	LOT BDY & PLATFORM UPDATED		MC	16.06.16

NOTES:

BEARING AND COORDINATE DATUM IS NEW ZEALAND TRANSVERSE MERCATOR PROJECTION
LEVELS ARE IN TERMS OF LANDS AND SURVEY DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE Dini Series 0.3mm DIGITAL
VERTICAL PLUMBING: FOIF DZJ2 LASER PLUMMIT

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MEMBERS OF: **NZIS**
New Zealand Institute of Surveyors
Te Kaitiaki Take Kōwhiri

CLIENT

SPINNAKER BAY LID

PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE

STORMWATER ASBUILT
STAGE 1

SCALE	1:500 (A1)	1:1000 (A3)
DRAWING No	55-932-605-10	SHEET 1 of 9
		REVISION 1

MH ASBUILT			
MH CODE	MH LID	NORTHING	EASTING
MH 1/2	125.91	5908388.38	1778312.54
MH 2/2	83.73	5908691.50	1778229.81
MH 2/3	91.73	5908661.41	1778218.92
MH 2/4	94.00	5908651.73	1778208.92
MH 2/5	109.32	5908596.51	1778262.91
WINGWALL MH 4/1		5908517.82	1778477.91
MH 4/2	106.25	5908522.27	1778468.15
MH 4/3	115.01	5908542.26	1778450.90
MH 4/4	123.15	5908531.71	1778368.22
MH 5/2	113.61	5908607.62	1778550.19
MH 5/3	119.16	5908624.25	1778578.12
MH 5/4		5908659.52	1778574.49
MH 6/1		5908621.58	1778585.39
MH 24/2	100.14	5908454.23	1778579.07
MH 26/2	97.40	5908372.42	1778557.83
MH 26/3	98.20	5908373.65	1778570.84

ACCESSWAY 4		
CL CHAINAGE	NORTHING	EASTING
CH 0	5908266.57	1778569.90
CH 10	5908276.04	1778566.67
CH 20	5908285.50	1778563.44
CH 30	5908294.96	1778560.21
CH 40	5908304.43	1778556.98
CH 50	5908314.00	1778554.09
CH 60	5908323.85	1778552.45
CH 70	5908333.84	1778552.14
CH 80	5908343.78	1778553.15
CH 90	5908353.50	1778555.48
CH 100	5908362.84	1778559.04
CH 110	5908372.04	1778562.97
CH 120	5908381.25	1778566.86
CH 130	5908390.78	1778569.86
CH 140	5908400.62	1778571.58
CH 150	5908410.61	1778572.04
CH 160	5908420.60	1778572.23
CH 170	5908430.60	1778572.41
CH 180	5908440.60	1778572.60
CH 190	5908450.60	1778572.78
CH 200	5908460.60	1778572.97
CH 203.29	5908463.89	1778573.03

CESSPIT LID ASBUILT			
CESSPIT CODE	LID LEVEL	NORTHING	EASTING
CESSPIT LID 1	97.77	5908368.39	1778565.03
CESSPIT LID 2	126.89	5908391.96	1778306.27
CESSPIT LID 3	127.62	5908401.53	1778297.08
CESSPIT LID 4	87.01	5908681.58	1778171.03
CESSPIT LID 5	94.84	5908647.02	1778202.57
CESSPIT LID 6	110.82	5908585.17	1778266.42
CESSPIT LID 7	124.99	5908530.46	1778341.58
CESSPIT LID 8	124.66	5908522.53	1778349.01
CESSPIT LID 9	115.76	5908548.02	1778445.96
CESSPIT LID 10	115.72	5908558.58	1778444.68
CESSPIT LID 11	113.20	5908587.66	1778542.65
CESSPIT LID 12	113.58	5908590.45	1778545.08
CESSPIT LID 13	113.21	5908597.12	1778538.01
CESSPIT LID 14	113.55	5908597.32	1778541.84
CESSPIT LID 15	126.42	5908662.34	1778572.09
CESSPIT LID 16	126.43	5908663.52	1778579.85
CESSPIT LID 17	143.31	5908753.53	1778576.67
CESSPIT LID 18	143.29	5908750.79	1778583.67
CESSPIT LID 19	160.06	5908829.35	1778628.60
CESSPIT LID 20	160.17	5908824.73	1778634.97

CESSPIT LID ASBUILT			
CESSPIT CODE	LID LEVEL	NORTHING	EASTING
CESSPIT LID 21	199.22	5908863.29	1778721.96
CESSPIT LID 22	171.94	5908910.05	1778650.10
CESSPIT LID 23	171.91	5908913.74	1778656.90
CESSPIT LID 24	182.61	5908970.50	1778586.22
CESSPIT LID 25	182.65	5908977.26	1778589.56
CESSPIT LID 26	187.66	5909016.79	1778572.72
CESSPIT LID 27	191.68	5909001.13	1778611.56
CESSPIT LID 28	191.65	5909008.11	1778614.10
CESSPIT LID 29	180.26	5909141.70	1778556.72
CESSPIT LID 30	199.79	5908975.73	1778697.62
CESSPIT LID 31	199.81	5908982.49	1778699.41
CESSPIT LID 32	205.10	5908982.21	1778729.71
CESSPIT LID 33	205.68	5908953.50	1778731.96
CESSPIT LID 34	205.29	5908965.56	1778738.70
CESSPIT LID 35	204.42	5909052.33	1778825.98
CESSPIT LID 36	204.44	5909053.28	1778826.30
CESSPIT LID 37	204.22	5909049.54	1778836.36
CESSPIT LID 38	204.24	5909050.64	1778836.62
CESSPIT LID 39	201.39	5909138.85	1778865.92
CESSPIT LID 40	201.38	5909139.67	1778866.35

CESSPIT LID ASBUILT			
CESSPIT CODE	LID LEVEL	NORTHING	EASTING
CESSPIT LID 41	201.43	5909133.77	1778875.29
CESSPIT LID 42	201.44	5909134.58	1778875.78
CESSPIT LID 43	206.02	5909248.28	1778928.09
CESSPIT LID 44	206.00	5909248.86	1778928.96
CESSPIT LID 45	206.14	5909239.95	1778934.39
CESSPIT LID 46	206.14	5909240.43	1778935.07
CESSPIT LID 47	209.28	5909253.87	1779013.51
CESSPIT LID 48	209.13	5909264.47	1779014.02
CESSPIT LID 49	211.06	5909206.34	1779179.18
CESSPIT LID 50	211.07	5909207.26	1779179.06
CESSPIT LID 51	211.20	5909209.03	1779185.67
CESSPIT LID 52	211.21	5909207.91	1779185.81
CESSPIT LID 53	216.87	5909092.79	1779198.67
CESSPIT LID 54	216.79	5909084.13	1779194.56
CESSPIT LID 55	212.14	5909036.22	1779340.75
CESSPIT LID 56	212.18	5909035.77	1779341.64
CESSPIT LID 57	212.40	5909042.43	1779343.43
CESSPIT LID 58	212.41	5909042.05	1779344.47
CESSPIT LID 59	214.22	5908992.16	1779390.71
CESSPIT LID 60	214.27	5908996.31	1779396.69

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Clinton James Healy
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THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000), AND ARE WITHIN ±50mm.
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[Signature]
NZIS (New Zealand Institute of Surveyors)
Dated this 16th day of June 2016

PLOT DATE: 6/16/2016 3:23 p.m.

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Dated this 16th day of June 2016

LOT 27

LOT 28

LOT 29

LOT 30

MH ASBUILT			
MH CODE	MH LID	NORTHING	EASTING
MH 1/2	125.91	5908388.38	1778312.54
MH 2/2	83.73	5908691.50	1778229.81
MH 2/3	91.73	5908661.41	1778218.92
MH 2/4	94.00	5908651.73	1778208.92
MH 2/5	109.32	5908596.51	1778262.91
WINGWALL MH 4/1		5908517.82	1778477.91
MH 4/2	106.25	5908522.27	1778468.15
MH 4/3	115.01	5908542.26	1778450.90
MH 4/4	123.15	5908531.71	1778368.22
MH 5/2	113.61	5908607.62	1778550.19
MH 5/3	119.16	5908624.25	1778578.12
MH 5/4		5908659.52	1778574.49
MH 6/1		5908621.58	1778585.39
MH 24/2	100.14	5908454.23	1778579.07
MH 26/2	97.40	5908372.42	1778557.83
MH 26/3	98.20	5908373.65	1778570.84

SURVEYED	SWX	14.07.2015	APPROVED	DATE
DESIGNED	LK	14.07.2015		
DRAWN				
CHECKED				
APPROVED				
REVISION	CHANGES		CHECKED	DATE
0	ORIGINAL ISSUE		MC	15.07.15
1	LOT BDY & PLATFORM UPDATED		MC	16.06.16

NOTES:
BEARING AND COORDINATE DATUM IS NEW ZEALAND TRANSVERSE MERCATOR PROJECTION
LEVELS ARE IN TERMS OF LANDS AND SURVEY DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED: **Trimble**
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DiNi Series 0.3mm DIGITAL
VERTICAL PLUMBING: FOIF DZJ2 LASER PLUMMIT

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PROJECT
SOLWAY
285 ARA - KOTINGA

TITLE
STORMWATER ASBUILT
STAGE 1

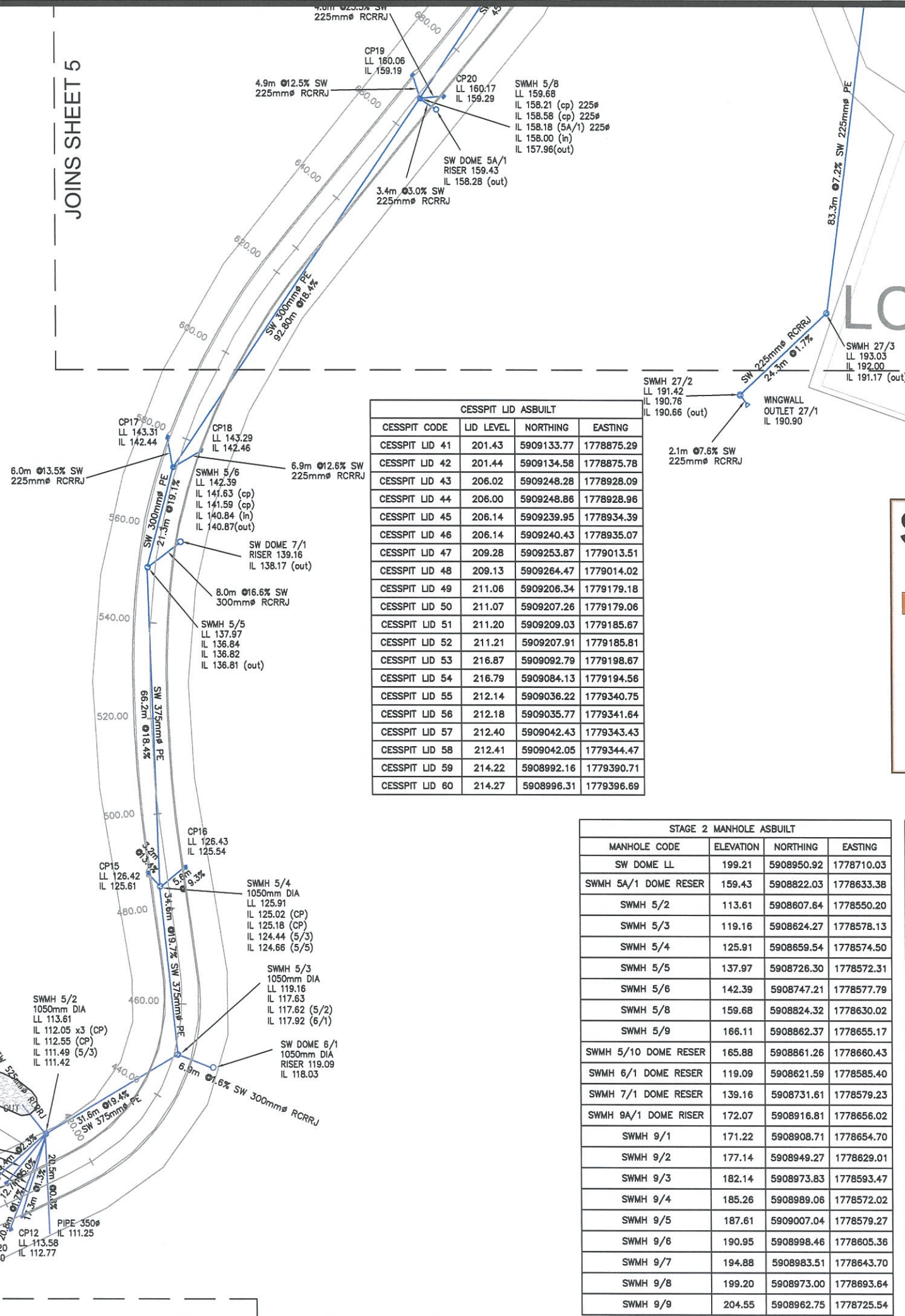
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DRAWING No	55-932-605-10	SHEET 3 of 9
		REVISION 1

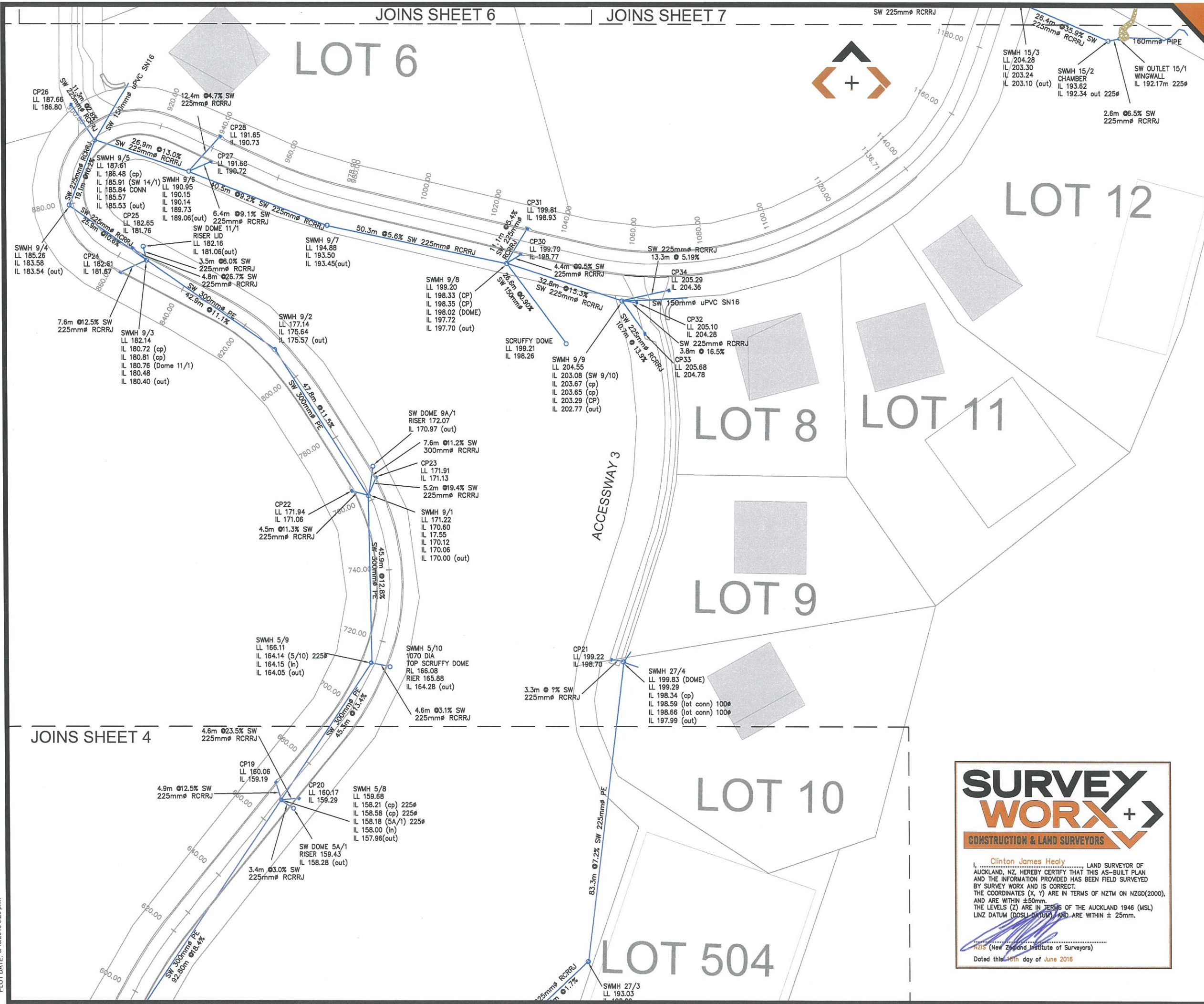
PLOT DATE: 07/10/2016 3:23 p.m.

CESSPIT LID ASBUILT			
CESSPIT CODE	LID LEVEL	NORTHING	EASTING
CESSPIT LID 1	97.77	5908368.39	1778565.03
CESSPIT LID 2	126.89	5908391.96	1778306.27
CESSPIT LID 3	127.62	5908401.53	1778297.08
CESSPIT LID 4	87.01	5908681.58	1778171.03
CESSPIT LID 5	94.84	5908647.02	1778202.57
CESSPIT LID 6	110.82	5908585.17	1778266.42
CESSPIT LID 7	124.99	5908530.46	1778341.58
CESSPIT LID 8	124.66	5908522.53	1778349.01
CESSPIT LID 9	115.76	5908548.02	1778445.96
CESSPIT LID 10	115.72	5908558.58	1778444.68
CESSPIT LID 11	113.20	5908587.66	1778542.65
CESSPIT LID 12	113.58	5908590.45	1778545.08
CESSPIT LID 13	113.21	5908597.12	1778538.01
CESSPIT LID 14	113.55	5908597.32	1778541.84
CESSPIT LID 15	126.42	5908662.34	1778572.09
CESSPIT LID 16	126.43	5908663.52	1778579.85
CESSPIT LID 17	143.31	5908753.53	1778576.67
CESSPIT LID 18	143.29	5908750.79	1778583.67
CESSPIT LID 19	160.06	5908829.35	1778628.60
CESSPIT LID 20	160.17	5908824.73	1778634.97

CESSPIT LID ASBUILT			
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CESSPIT LID 27	191.68	5909001.13	1778611.56
CESSPIT LID 28	191.65	5909008.11	1778614.10
CESSPIT LID 29	180.26	5909141.70	1778556.72
CESSPIT LID 30	199.79	5908975.73	1778697.62
CESSPIT LID 31	199.81	5908982.49	1778699.41
CESSPIT LID 32	205.10	5908962.21	1778729.71
CESSPIT LID 33	205.68	5908953.50	1778731.96
CESSPIT LID 34	205.29	5908965.56	1778738.70
CESSPIT LID 35	204.42	5909052.33	1778825.98
CESSPIT LID 36	204.44	5909053.28	1778826.30
CESSPIT LID 37	204.22	5909049.54	1778836.36
CESSPIT LID 38	204.24	5909050.64	1778836.62
CESSPIT LID 39	201.39	5909138.85	1778865.92
CESSPIT LID 40	201.38	5909139.67	1778866.35

JOINS SHEET 5





SURVEYED	SWX	14.07.2015	APPROVED	DATE
DRAWN	LK	14.07.2015		
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APPROVED				
REVISION	CHANGES		CHECKED	DATE
0	ORIGINAL ISSUE		MC	15.07.15
1	LOT BDY & PLATFORM UPDATED		MC	16.06.16

NOTES:

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LEVELS ARE IN TERMS OF LANDS AND SURVEY DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:

INSTRUMENT: TRIMBLE ROBOTIC S8 1"

GPS: TRIMBLE R6/R8 SYSTEMS

PRECISE LEVELLING: TRIMBLE Dini Series 0.3mm DIGITAL

VERTICAL PLUMBING: FOIF DZJ2 LASER PLUMMIT

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SPINNAKER BAY LID

PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE

STORMWATER ASBUILT
STAGE 2

SCALE	1:500 (A1)	1:1000 (A3)
DRAWING No	55-932-605-10	SHEET 5 of 9
REVISION		1


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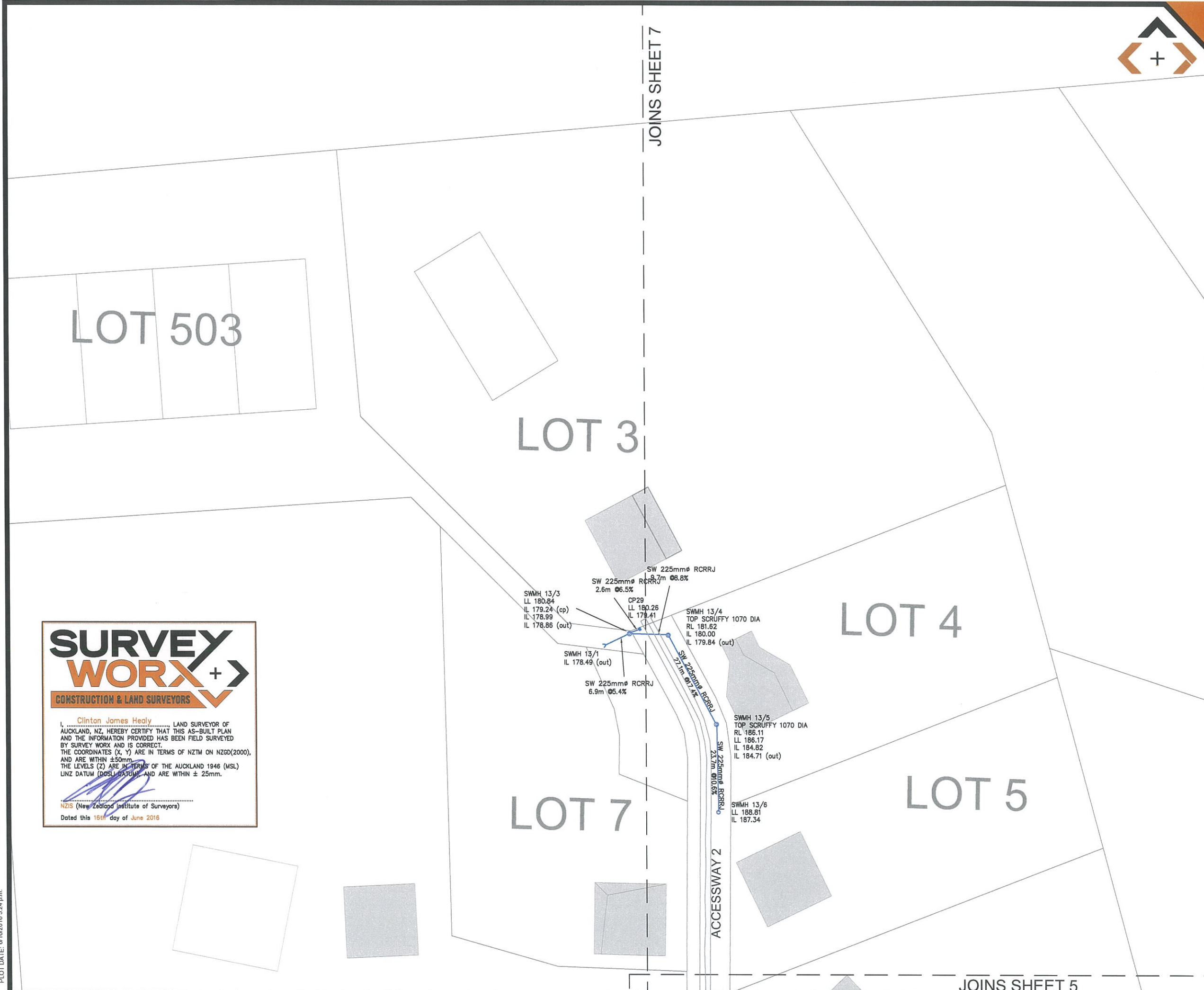
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NZIS (New Zealand Institute of Surveyors)

Dated this 16th day of June 2016



SURVEYED	SWX	14.07.2015	APPROVED	DATE
DESIGNED				
DRAWN	LK	14.07.2015		
CHECKED				
APPROVED				
REVISION		CHANGES	CHECKED	DATE
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DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED: Trimble

INSTRUMENT: TRIMBLE ROBOTIC S8 1"

GPS: TRIMBLE R6/R8 SYSTEMS

PRECISE LEVELLING: TRIMBLE Dini Series 0.3mm DIGITAL

VERTICAL PLUMMING: FOIF DZJ2 LASER PLUMMIT

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LINZ DATUM (DOSL DATUM), AND ARE WITHIN ± 25mm.

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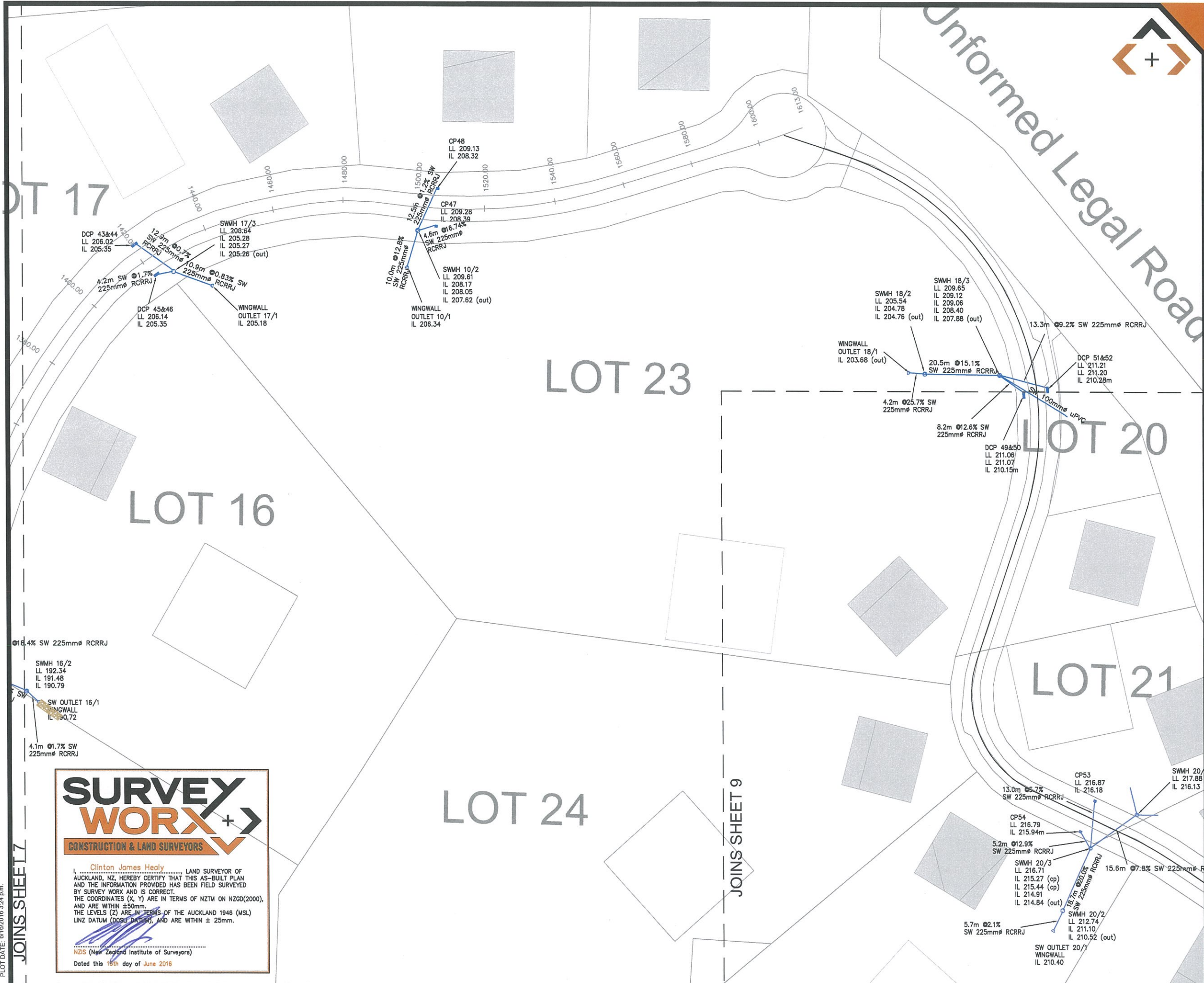
PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE

STORMWATER ASBUILT
STAGE 2

SCALE	1:500 (A1)	1:1000 (A3)
DRAWING No	55-932-605-10	SHEET 6 of 9
REVISION		1



SURVEYED	SWX	14.07.2015	APPROVED		DATE
DESIGNED					
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PROJECT

SOLWAY
285 ARA - KOTINGA


TITLE

STORMWATER ASBUILT
STAGE 2

SCALE	1:500 (A1)	1:1000 (A3)
DRAWING No	55-932-605-10	SHEET 8 of 9
REVISION		1

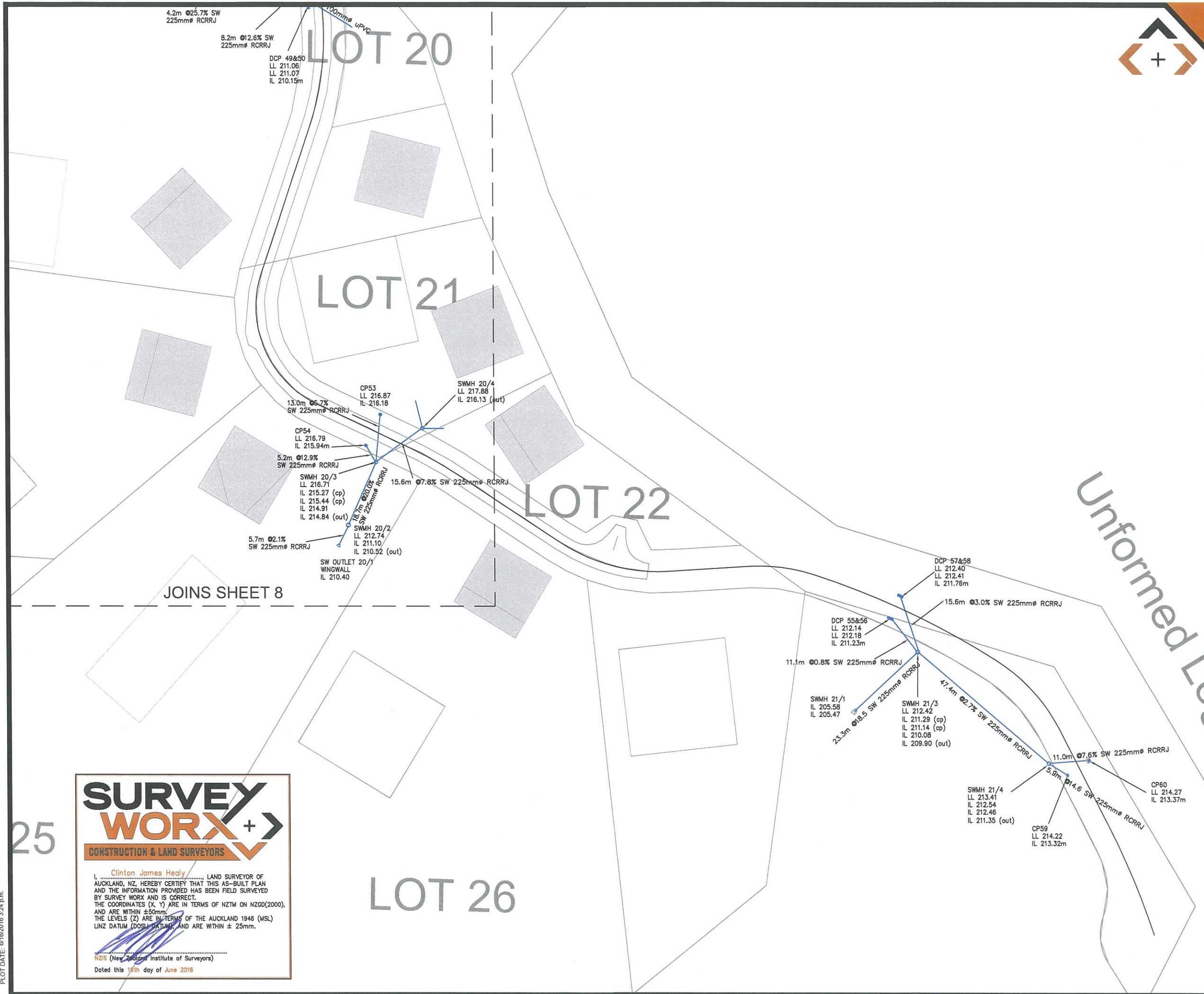
SURVEY WORX+
CONSTRUCTION & LAND SURVEYORS

I, **Clinton James Healy**, LAND SURVEYOR OF
AUCKLAND, NZ, HEREBY CERTIFY THAT THIS AS-BUILT PLAN
AND THE INFORMATION PROVIDED HAS BEEN FIELD SURVEYED
BY SURVEY WORK AND IS CORRECT.
THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000),
AND ARE WITHIN ±50mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
LINZ DATUM (DOSH DATUM), AND ARE WITHIN ± 25mm.



NZIS (New Zealand Institute of Surveyors)
Dated this 16th day of June 2016

PLOT DATE: 01/06/2016 3:24 p.m.



SURVEYED	SWX	14.07.2015	APPROVED	DATE
DESIGNED	LK	14.07.2015		
DRAWN				
CHECKED				
APPROVED				
REVISION	CHANGES		CHECKED	DATE
0	ORIGINAL ISSUE		MC	15.07.15
1	LOT BDY & PLATFORM UPDATED		MC	16.06.16

NOTES:

BEARING AND COORDINATE DATUM IS
NEW ZEALAND TRANSVERSE MERCATOR PROJECTION
LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DINI Series 0.3mm DIGITAL
VERTICAL PLUMMIT: FOIF DZJ2 LASER PLUMMIT

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MEMBERS OF:
NZIS
New Zealand
Institute of Surveyors
Te Kaitiaki Take Kōwhiri

CLIENT

SPINNAKER BAY LID

PROJECT

SOLWAY
285 ARA - KOTINGA

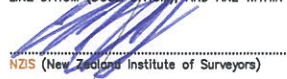
TITLE

STORMWATER ASBUILT
STAGE 2

SCALE	1:500 (A1)	1:1000 (A3)
DRAWING No	55-932-605-10	SHEET 9 of 9
REVISION		1

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CONSTRUCTION & LAND SURVEYORS

Clinton James Healy
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PLOT DATE: 01/02/2016 3:24 p.m.