

ASSOCIATION OF CONSULTING
ENGINEERS NEW ZEALAND

ISO 9001
QUALITY
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NOTE:

1. ALL HOUSE CONNECTIONS ARE 100mm DIA uPVC.

2. ALL SEWER MAIN PIPES ARE 150mm DIA uPVC UNLESS SHOWN OTHERWISE.

3. ALL POSITIONS AND LEVELS ARE ACCURATE AT TIME OF SURVEY.

4. LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953. ORIGIN BM LB51 SO 31708 (ACOP)
R.L = 2.936

5. COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

6. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES, IN METRES.

7. WORK COMPLETED AS AT OCTOBER 2010.

8. POSITION OF HOUSE CONNECTIONS BASED ON INFORMATION SUPPLIED BY WALSH CONTRACTORS WELLINGTON.

LEGEND

STORMWATER LINE

STORMWATER MANHOLE

STORMWATER CONNECTION

SUMP

SEWER LINE

SEWER MANHOLE

SEWER CONNECTION

EXISTING SEWER LINE


EXISTING SEWER MANHOLE

MASTER

DATA SOURCE

1. THIS PLAN HAS BEEN CARRIED OUT TO TOPOGRAPHICAL STANDARDS. ALL LEVELS SHOWN ARE CORRECT AT TIME OF SURVEY. CRITICAL DIMENSIONS AND LEVELS SHOULD BE VERIFIED.

2. SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT	AMB	28.10.10
REF	REVISIONS	BY	DATE

PROJECT:

CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9

TITLE:

SANITARY SEWER RETICULATION
AS-BUILT PLANS
SHEET 1 OF 2

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
SJK/SMB	13.10.10		28.10.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JSO/GMB	20.10.10		SJK/GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	28.10.10		10.2010

ISSUE STATUS:

AS-BUILT

PROJECT No:	SCALES:	A1
1850-124961-15	1:500-A1 1:1000-A3	
DRAWING No:		REV
124961-9-AB403		A

File: WELLINGTON N:\1850\124961_A\CAD\AS BUILTS - STAGE 9\02-ROADING & SERVICES\124961-AB300-400-500.DWG

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MASTER

DATA SOURCE

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A	AS-BUILT	AMB	28.10.10
REF	REVISIONS	BY	DATE

PROJECT:

CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9

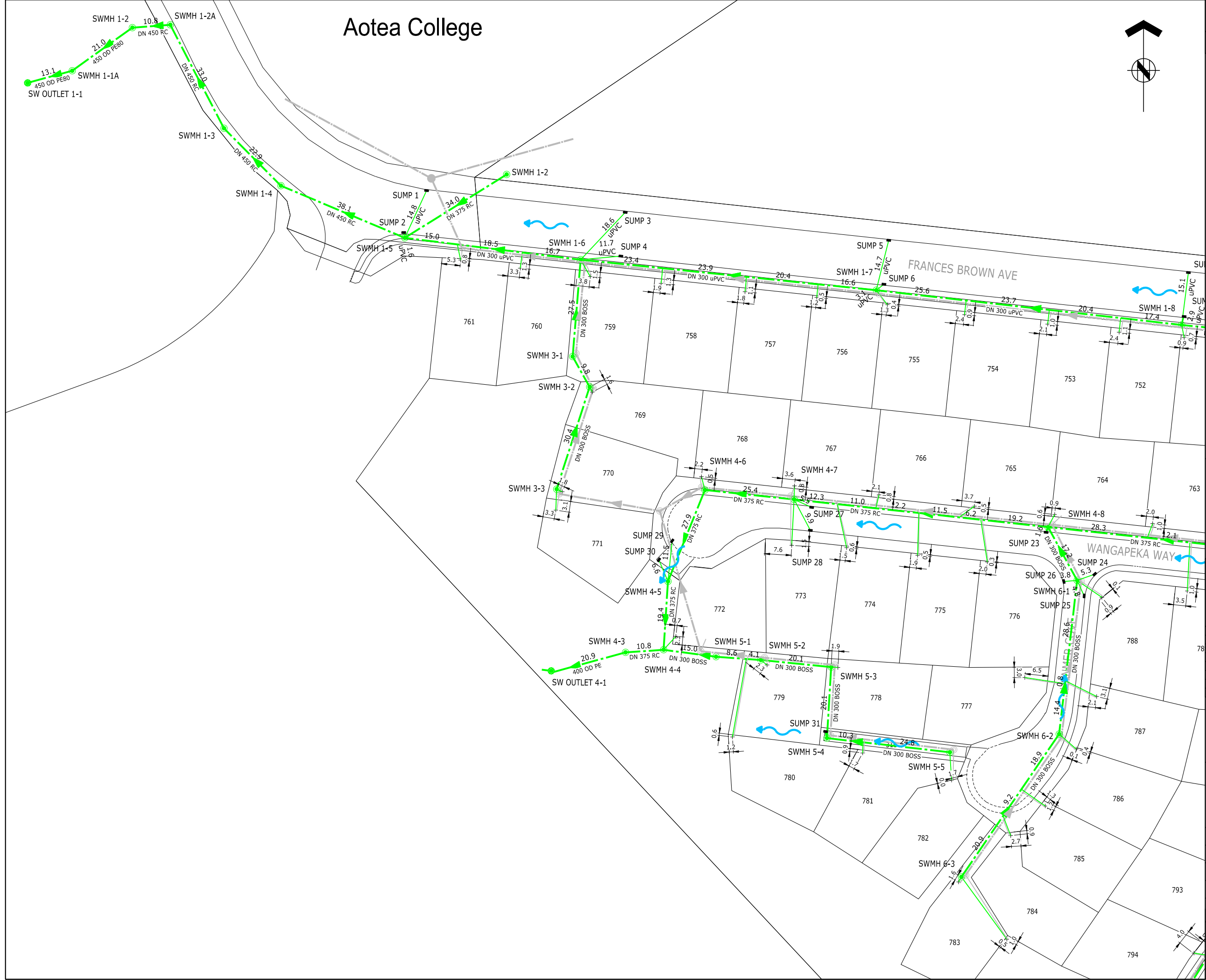
TITLE:

SANITARY SEWER RETICULATION
AS-BUILT PLANS
SHEET 2 OF 2

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
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JSO/GMB	20.10.10		SJK/GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	28.10.10		10.2010

ISSUE STATUS:			AS-BUILT
PROJECT No:	1850-124961-15	SCALES:	NTS
DRAWING No:	124961-9-AB404		REV
			A

SANITARY SEWER MANHOLE COORDINATE TABLE					
MH No.	mN	mE	LL	IL (CENTRE)	DEPTH
SSMH A1	819379.52	406593.10	44.23	41.48	2.75
SSMH A2	819359.82	406601.89	45.53	43.96	1.57
SSMH A3	819355.72	406636.66	48.85	47.34	1.51
SSMH A4	819346.83	406719.90	56.41	54.91	1.50
SSMH A5	819335.11	406825.63	65.01	63.40	1.61
SSMH A6	819328.78	406887.15	68.08	66.15	1.93
SSMH A7	819343.94	406906.26	68.73	67.41	1.32
SSMH B1	819329.94	406634.10	50.48	48.97	1.51
SSMH B2	819319.96	406639.02	55.32	53.83	1.49
SSMH B3	819290.16	406629.36	56.23	54.44	1.79
SSMH B4	819285.30	406657.88	59.23	57.47	1.76
SSMH B5	819292.01	406669.72	59.72	58.10	1.62
SSMH B6	819289.56	406695.04	61.40	59.82	1.58
SSMH B7	819281.45	406769.01	67.92	66.03	1.89
SSMH B8	819274.48	406833.53	69.68	67.99	1.69
SSMH B9	819257.72	406844.42	70.69	69.39	1.30
SSMH B10	819213.38	406840.21	74.07	72.61	1.46
SSMH B11	819188.79	406830.85	76.43	74.82	1.61
SSMH B12	819139.80	406800.20	81.23	79.09	2.14
SSMH B13	819107.20	406793.06	83.54	81.04	2.50
SSMH C1	819245.59	406669.47	60.37	58.36	2.01
SSMH C2	819243.76	406687.53	68.50	66.95	1.55
SSMH C3	819241.69	406707.46	70.59	69.19	1.40
SSMH C4	819221.75	406706.21	72.20	70.62	1.58
SSMH C5	819217.72	406741.13	75.90	74.39	1.51
SSMH D1	819265.37	406777.25	68.43	66.92	1.51
SSMH D2	819221.10	406771.65	73.55	72.39	1.16
SSMH D3	819182.17	406744.52	78.01	75.95	2.06





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NOTE:

- ALL HOUSE CONNECTIONS ARE 100mm DIA uPVC.
- ALL SINGLE SUMP LEADS ARE 225mm DIA BOSSPIPE UNLESS SHOWN OTHERWISE.
- ALL DOUBLE SUMP LEADS ARE 300mm DIA BOSSPIPE UNLESS SHOWN OTHERWISE.
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STORMWATER LINE - PIPE MATERIALS:
(UNLESS SHOWN OTHERWISE)

225 DIA - BOSSPIPE
300 DIA - BOSSPIPE
375 DIA - RCRJ CLASS 2
450 DIA - RCRJ CLASS 2
400 OD - PE80 SDR17
450 OD - PE80 SDR17

LEGEND

	STORMWATER LINE
	STORMWATER MANHOLE
	STORMWATER CONNECTION
	SUMP
	SEWER LINE
	SEWER MANHOLE
	SEWER CONNECTION
	EXISTING STORMWATER LINE
	EXISTING STORMWATER MANHOLE
	SECONDARY FLOW PATH

MASTER

DATA SOURCE

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HARRISON GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

REF	REVISIONS	BY	DATE
A	AS-BUILT	AMB	28.10.10

PROJECT:

**CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9**

TITLE:

**STORMWATER RETICULATION
AS-BUILT PLANS
SHEET 1 OF 3**

DESIGNED:	DATE:	SIGNED:	PLOT BY:
DRAWN:	DATE:	SIGNED:	PLOT DATE:
CHECKED:	DATE:	SIGNED:	SURVEY BY:
APPROVED:	DATE:	SIGNED:	SURVEY DATE:

ISSUE STATUS:

AS-BUILT

PROJECT No:	SCALES:	A1
1850-124961-15	1:500-A1 1:1000-A3	
DRAWING No:		REV

124961-9-AB400

A

File: WELLINGTON N:\1850\124961_1\CAD\AS BUILTS - STAGE 9\02-ROADING & SERVICES\124961-AB300-400-500.DWG

NOTE:

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A	AS-BUILT	AMB	28.10.10
REF	REVISIONS	BY	DATE

PROJECT:

CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9

TITLE:

STORMWATER RETICULATION
AS-BUILT PLANS
SHEET 3 OF 3

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
SJK/SMB	13.10.10		28.10.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JSO/GMB	20.10.10		SJK/GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	28.10.10		10.2010

ISSUE STATUS:			AS-BUILT
PROJECT No:	1850-124961-15	SCALES:	NTS
DRAWING No:	124961-9-AB402		A

STORMWATER MANHOLE COORDINATE TABLE					
MH No.	mN	mE	LL	IL (CENTRE)	DEPTH
SWMH 1-1	819406.95	406479.88	16.26	14.66	1.60
SWMH 1-1A	819411.27	406490.17	20.18	18.66	1.52
SWMH 1-2	819422.23	406508.40	33.14	31.34	1.80
SWMH 1-2A	819423.01	406519.19	35.34	33.98	1.36
SWMH 1-3	819393.76	406534.38	38.93	37.65	1.28
SWMH 1-4	819377.49	406550.49	40.91	39.49	1.42
SWMH 1-5	819362.68	406585.66	44.02	42.56	1.46
SWMH 1-6	819356.49	406635.45	48.72	47.18	1.54
SWMH 1-7	819347.84	406719.20	56.34	54.84	1.50
SWMH 1-8	819338.01	406805.73	63.61	61.84	1.77
SWMH 1-9	819334.37	406842.77	66.00	64.04	1.96
SWMH 1-10	819330.18	406882.00	67.84	66.52	1.32
SWMH 1-11	819362.35	406859.33	66.35	64.97	1.38
SWMH 2-1	819380.62	406614.40	46.75	44.15	2.60
SWMH 3-1	819329.05	406633.17	50.35	48.99	1.36
SWMH 3-2	819320.46	406637.99	55.22	53.58	1.64
SWMH 3-3	819291.50	406628.63	56.02	54.48	1.54
CENTRE OF DOME 4-1 SWOUTLET	819240.04	406627.08	40.11	38.55	1.56
	819240.34	406624.41	-	37.99	-
SWMH 4-3	819245.25	406648.13	51.56	50.21	1.35
SWMH 4-4	819246.00	406658.94	56.09	54.51	1.58
SWMH 4-5	819265.37	406660.18	59.01	56.11	2.90
SWMH 4-6	819291.26	406670.65	59.75	58.12	1.63
SWMH 4-7	819288.59	406695.92	61.45	59.93	1.52
SWMH 4-8	819280.77	406767.86	67.82	65.97	1.85
SWMH 4-9	819273.76	406832.33	69.63	67.92	1.71
SWMH 4-10	819255.21	406845.04	70.97	69.34	1.63
SWMH 4-11	819212.27	406840.93	74.13	72.73	1.40
SWMH 4-12	819187.67	406831.38	76.50	74.91	1.59
SWMH 4-13	819140.43	406801.27	81.13	79.03	2.10
SWMH 4-14	819108.14	406794.09	83.52	81.12	2.40
SWMH 5-1	819244.02	406673.79	61.53	59.88	1.65
SWMH 5-2	819243.11	406686.46	68.12	66.81	1.31
SWMH 5-3	819241.09	406706.43	70.55	69.07	1.48
SWMH 5-4	819220.98	406705.23	72.12	70.56	1.56
SWMH 5-5	819216.97	406740.03	75.88	74.17	1.71
SWMH 6-1	819265.65	406776.12	68.42	66.90	1.52
SWMH 6-2	819222.14	406771.01	73.51	72.29	1.22
SWMH 6-3	819181.66	406743.33	77.92	76.08	1.84
SWOUTLET 7-1	819241.98	406949.02	-	66.36	-
SWMH 7-2	819248.74	406955.52	68.82	66.59	2.23
SWMH 7-3	819252.84	406968.64	73.74	72.33	1.41
SWMH 7-4	819229.78	406977.40	74.77	73.39	1.38
SWMH 8-1	819297.03	406940.70	69.03	67.68	1.35
SWMH 8-2	819302.11	406948.68	71.47	70.05	1.42
SWMH 8-3	819310.50	406965.16	71.76	70.40	1.36
SWMH 9-1	819253.48	406988.65	74.10	72.80	1.30

STORMWATER SUMP COORDINATE TABLE			
SUMP No.	mN	mE	LID LEVEL
SUMP 1	819376.10	406591.79	44.01
SUMP 2	819364.21	406585.30	43.79
SUMP 3	819369.92	406648.07	49.63
SUMP 4	819357.52	406646.83	49.61
SUMP 5	819362.01	406722.73	56.24
SUMP 6	819349.55	406721.37	56.26
SUMP 7	819352.87	406807.64	63.29
SUMP 8	819340.40	406806.42	63.37
SUMP 9	819365.88	406862.45	66.14
SUMP 10	819364.70	406868.88	66.06
SUMP 11	819344.12	406888.90	67.91
SUMP 12	819331.67	406887.49	67.86
SUMP 13	819305.96	406964.52	71.38
SUMP 14	819300.27	406953.27	71.40
SUMP 15	819230.12	406993.10	74.73
SUMP 16	819226.32	406981.14	74.74
SUMP 17	819320.41	406867.27	66.82
SUMP 18	819321.87	406854.56	66.64
SUMP 19	819249.88	406859.51	71.00
SUMP 20	819249.96	406846.97	71.04
SUMP 21	819179.78	406843.76	76.40
SUMP 22	819185.53	406832.57	76.41
SUMP 23	819279.28	406767.32	67.68
SUMP 24	819267.44	406781.09	68.28
SUMP 25	819261.26	406778.12	68.66
SUMP 26	819265.35	406772.34	68.19
SUMP 27	819286.36	406700.90	61.71
SUMP 28	819279.82	406700.52	61.73
SUMP 29	819276.83	406661.37	58.94
SUMP 30	819271.48	406657.61	58.83
SUMP 31	819222.74	406705.09	71.97

Aotea College



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LEGEND

- FIRE HYDRANT
- GATE VALVE
- SLUICE VALVE
- WATER TOBY
- END CAP
- uPVC WATERMAIN
- MDPE RIDERMAIN
- EXISTING WATERMAIN

MASTER

DATA SOURCE

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CONSULTING ENGINEERS SURVEYORS PLANNERS
Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT	AMB	28.10.10
REF	REVISIONS	BY	DATE

PROJECT:

CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9

TITLE:

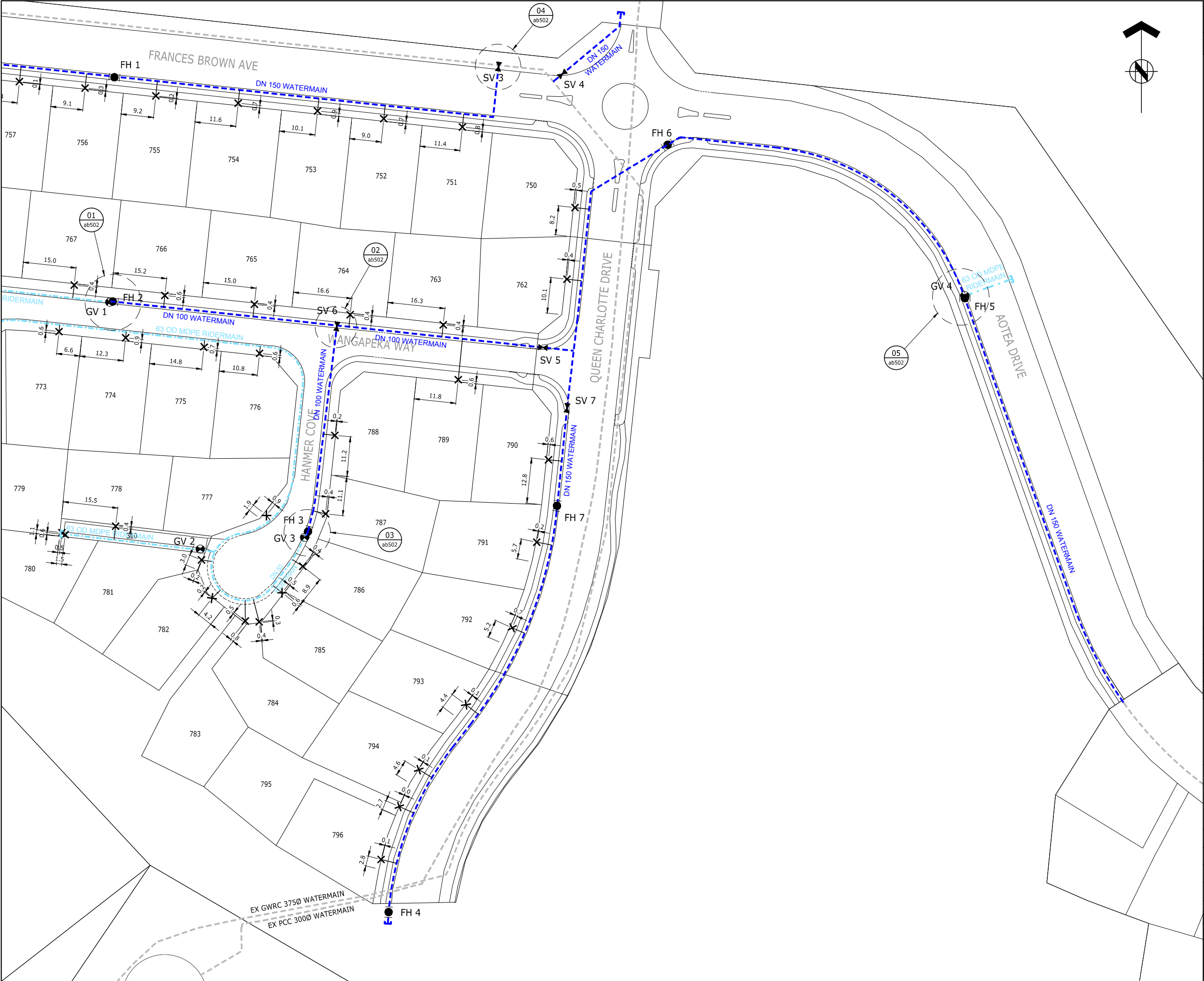
WATER RETICULATION
AS-BUILT PLANS
SHEET 1 OF 4


DESIGNED:	DATE:	SIGNED:	PLOT BY:
DRAWN:	DATE:	SIGNED:	PLOT DATE:
CHECKED:	DATE:	SIGNED:	SURVEY BY:
APPROVED:	DATE:	SIGNED:	SURVEY DATE:

ISSUE STATUS:

AS-BUILT

PROJECT No:	1850-124961-15	SCALES:	1:500-A1 1:1000-A3	A1
DRAWING No:	124961-9-AB500	REV	A	





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LEGEND




FIRE HYDRANT



GATE VALVE




SLUICE VALVE




WATER TOBY




END CAP



uPVC WATERMAIN



MDPE RIDERMAIN




EXISTING WATERMAIN

MASTER

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A	AS-BUILT	AMB	28.10.10
REF	REVISIONS	BY	DATE

PROJECT:

CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9

TITLE:

WATER RETICULATION
AS-BUILT PLANS
SHEET 2 OF 4

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
SJK/SMB	13.10.10		28.10.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JSO/GMB	20.10.10		SJK/GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	28.10.10		10.2010

ISSUE STATUS:

AS-BUILT


PROJECT No:	1850-124961-15	SCALES:	1:500-A1 1:1000-A3	A1
DRAWING No:	124961-9-AB501			REV
				A


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
NOTE:


- LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953.
ORIGIN BM LB51 SO 31708 (ACOP)
R.L = 2.936
- COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.
- ALL DIMENSIONS ARE GIVEN IN METRES UNLESS OTHERWISE STATED.


LEGEND


- 


FIRE HYDRANT
- 


GATE VALVE
- 

SLUICE VALVE
- 

WATER TOBY
- 

END CAP
- 

uPVC WATERMAIN
- 

MDPE RIDERMAIN
- 

EXISTING WATERMAIN

MASTER

DATA SOURCE

- THIS PLAN HAS BEEN CARRIED OUT TO TOPOGRAPHICAL STANDARDS. ALL LEVELS SHOWN ARE CORRECT AT TIME OF SURVEY. CRITICAL DIMENSIONS AND LEVELS SHOULD BE VERIFIED.
- SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.



HARRISON
GRIERSON

CONSULTING ENGINEERS SURVEYORS PLANNERS

Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT	AMB	28.10.10
REF	REVISIONS	BY	DATE

PROJECT:

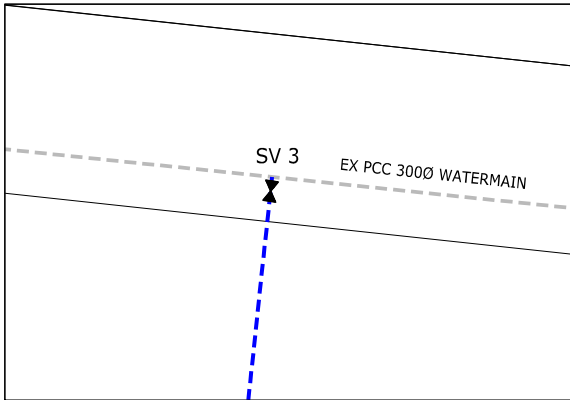
CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9

TITLE:

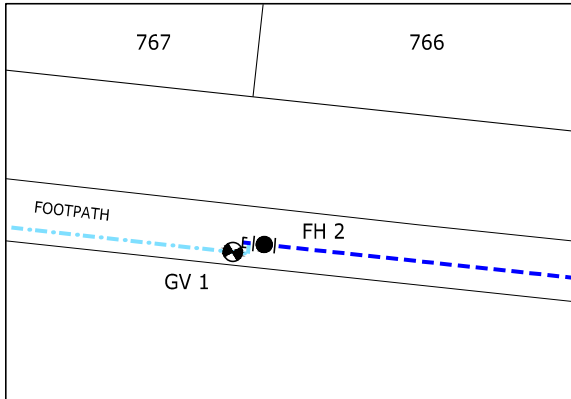
WATER RETICULATION
AS-BUILT PLANS - DIAGRAMS
SHEET 3 OF 4

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
SJK/SMB	13.10.10		28.10.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JSO/GMB	20.10.10		SJK/GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	28.10.10		10.2010

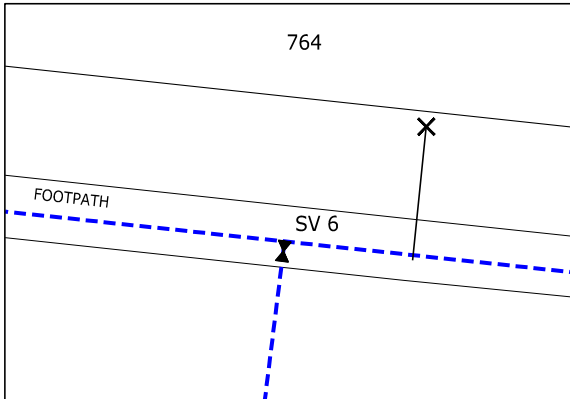
ISSUE STATUS:			
AS-BUILT			
PROJECT No:	SCALES:		A1
1850-124961-15	NTS		
DRAWING No:			REV
124961-9-AB502			A



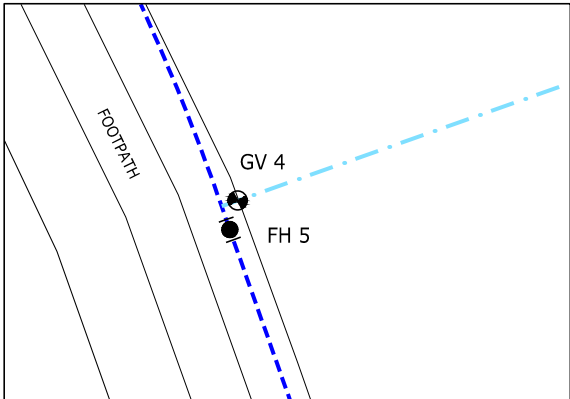
04 WATERMAIN DIAGRAM
AB502 SCALE 1:100-A1



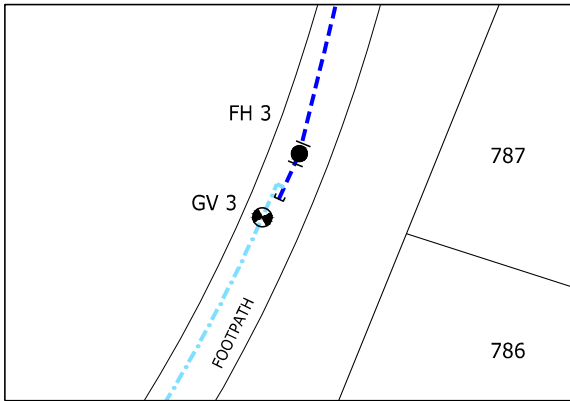
01 WATERMAIN DIAGRAM
AB502 SCALE 1:100-A1



02 WATERMAIN DIAGRAM
AB502 SCALE 1:100-A1



05 WATERMAIN DIAGRAM
AB502 SCALE 1:100-A1



03 WATERMAIN DIAGRAM
AB502 SCALE 1:100-A1

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- NOTE:
1.

LEVELS ARE IN TERMS OF WELLINGTON VERTICAL DATUM 1953.
ORIGIN BM LB51 SO 31708 (ACOP)
R.L = 2.936
2.

COORDINATES ARE IN TERMS OF NZGD2000 - WELLINGTON CIRCUIT.

MASTER

DATA SOURCE

1.

THIS PLAN HAS BEEN CARRIED OUT TO TOPOGRAPHICAL STANDARDS. ALL LEVELS SHOWN ARE CORRECT AT TIME OF SURVEY. CRITICAL DIMENSIONS AND LEVELS SHOULD BE VERIFIED.
2.

SERVICES POSITIONS AND ALIGNMENT MAY HAVE BEEN OBTAINED FROM THIRD PARTY RECORDS AND SHOULD BE VERIFIED ON SITE PRIOR TO CONSTRUCTION COMMENCING. HARRISON GRIERSON DOES NOT IN ANY WAY GUARANTEE THE ACCURACY OF ANY UNDERGROUND SERVICE SHOWN ON THIS PLAN.

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Level 16 Grand Plimmer Tower 2-6 Gilmer Terrace Wellington Ph 04 385 0005 Fax 04 385 0006

A	AS-BUILT	AMB	28.10.10
REF	REVISIONS	BY	DATE

PROJECT:

CARRUS LIMITED
AOTEA BLOCK - PORIRUA
STAGE 9

TITLE:

WATER RETICULATION
AS-BUILT PLANS
SHEET 4 OF 4

DESIGNED:	DATE:	SIGNED:	PLOT BY:
			SMB
DRAWN:	DATE:	SIGNED:	PLOT DATE:
SJK/SMB	13.10.10		28.10.10
CHECKED:	DATE:	SIGNED:	SURVEY BY:
JSO/GMB	20.10.10		SJK/GMB
APPROVED:	DATE:	SIGNED:	SURVEY DATE:
AMB	28.10.10		10.2010

ISSUE STATUS:			
AS-BUILT			
PROJECT No:		SCALES: NTS	
1850-124961-15		A1	
DRAWING No:			REV
124961-9-AB503			A

LOT CONNECTION COORDINATE TABLE		
LOT No.	mN	mE
LOT 750	819311.97	406848.83
LOT 751	819334.75	406816.98
LOT 752	819337.12	406794.74
LOT 753	819339.30	406776.02
LOT 754	819341.51	406753.58
LOT 755	819343.57	406730.27
LOT 756	819345.77	406710.27
LOT 757	819347.60	406691.70
LOT 758	819349.99	406668.58
LOT 759	819352.34	406649.04
LOT 760	819354.84	406625.47
LOT 761	819356.92	406607.27
LOT 762	819291.72	406846.55
LOT 763	819278.82	406811.56
LOT 764	819281.66	406785.26
LOT 765	819284.63	406758.15
LOT 766	819287.12	406732.83
LOT 767	819290.06	406707.20
LOT 768	819292.90	406680.16
LOT 769	819294.03	406666.63
LOT 770	819290.64	406659.33
LOT 771	819280.55	406656.27
LOT 772	819272.84	406678.20
LOT 773	819276.89	406702.89
LOT 774	819275.15	406721.74
LOT 775	819272.53	406743.90

LOT CONNECTION COORDINATE TABLE		
LOT No.	mN	mE
LOT 776	819270.74	406759.61
LOT 777	819224.88	406761.55
LOT 778	819221.85	406718.91
LOT 779	819220.00	406703.71
LOT 780	819219.45	406704.64
LOT 781	819212.32	406743.20
LOT 782	819201.50	406746.18
LOT 783	819195.04	406755.58
LOT 784	819194.80	406759.51
LOT 785	819203.03	406765.98
LOT 786	819210.50	406771.85
LOT 787	819225.36	406778.29
LOT 788	819247.54	406780.92
LOT 789	819263.29	406815.81
LOT 790	819240.64	406841.33
LOT 791	819217.33	406838.01
LOT 792	819193.11	406831.05
LOT 793	819171.39	406818.00
LOT 794	819153.01	406804.64
LOT 795	819142.55	406799.13
LOT 796	819127.59	406793.98

WATERMAIN FITTING COORDINATE TABLE		
	mN	mE
GV 1	819285.21	406717.26
GV 2	819215.37	406742.82
GV 3	819218.67	406772.34
GV 4	819287.05	406959.08
SV 1	819376.34	406583.80
SV 2	819362.95	406588.63
SV 3	819351.86	406827.20
SV 4	819349.77	406845.25
SV 5	819272.39	406839.75
SV 6	819278.38	406781.48
SV 7	819255.31	406846.58
FH 1	819348.84	406718.56
FH 2	819285.59	406718.07
FH 3	819220.43	406773.32
FH 4	819112.69	406796.11
FH 5	819286.36	406959.06
FH 6	819329.76	406875.02
FH 7	819227.61	406843.72