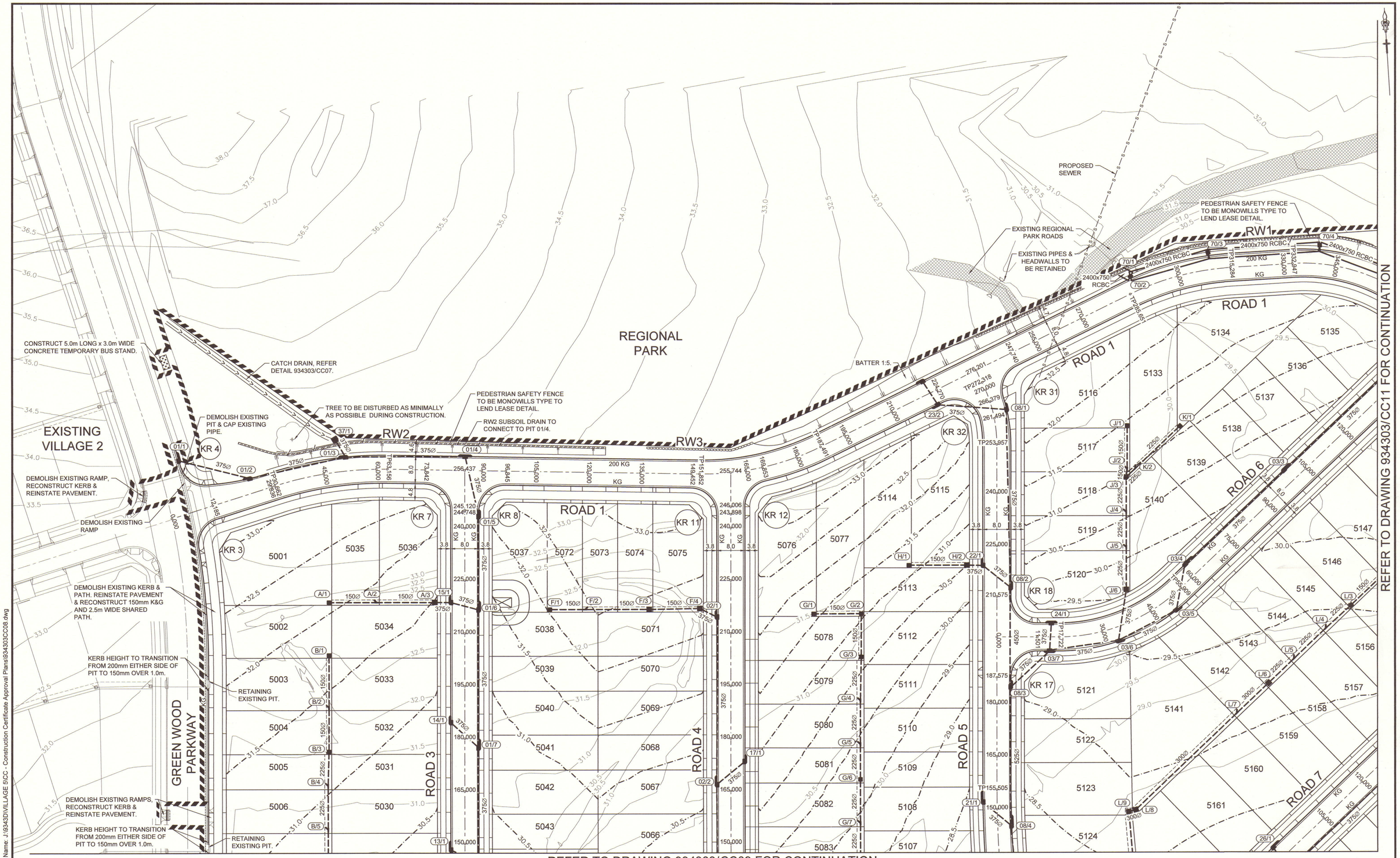

REFER TO DRAWING 934303/CC09 FOR CONTINUATION

1:500 (AT A1) 10 0 10 20 30 40 50 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
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AZIMUTH: MGA
DATUM: AHD
ORIGIN:

CLIENT: Lend Lease

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ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRINGS
VILLAGE 5
ENGINEERING PLAN
SHEET 1

PLAN No: 9343/03CC08 B
FILE No: 934303CC08
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January , 2015 9:57:49 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC08.dwg

REFER TO DRAWING 934303/CC08 FOR CONTINUATION

KERB HEIGHT TO TRANSITION FROM 200mm EITHER SIDE OF PIT TO 150mm OVER 1.0m.

RETAIN EXISTING PIT.

RETAIN EXISTING PIT, CONVERT INLET TO 600x900 DISH DRAIN TYPE GSIP IN VEHICULAR CROSSING.

EXISTING VILLAGE 2

GREEN WOOD PARKWAY

RETAIN EXISTING PIT.

DEMOLISH EXISTING KERB & PATH, REINSTATE PAVEMENT & RECONSTRUCT 150mm K&G AND 2.5m WIDE SHARED PATH.

REFER CC06 FOR DEMOLITION AND CONSTRUCTION STAGING FOR EXISTING KERB & PATH. REINSTATE PAVEMENT & RECONSTRUCT 150mm K&G AND 2.5m WIDE SHARED PATH AS PART OF SUPERLOT WORKS.

RETAIN EXISTING PIT.

KERB HEIGHT TO TRANSITION FROM 200mm EITHER SIDE OF PIT TO 150mm OVER 1.0m.

ROAD 1

ROAD 3

ROAD 4

ROAD 5

ROAD 7

ROAD 8

PROVIDE EARTHWORKS PLATFORM AT RL.28.40 FOR SUBSTATION.

GRADE OUT AT MIN.1%.

AREA NOT TO BE DISTURBED.

EXISTING MALALEUCA TREE TO BE RETAINED AND PROTECTED. CONTRACTOR IS TO ERECT & MAINTAIN A 1.8m HIGH MAN PROOF BARRIER FOR THE DURATION OF THE CONSTRUCTION PERIOD.

PROPOSED SEDIMENT BASIN AS APPROVED IN DA 13-0065

VILLAGE 5 PARK

5132

AREA NOT TO BE DISTURBED.

1800x900 RCBC

REFER 934303/CC07&CC70 FOR OUTLET DETAIL.

REFER TO DRAWING 934303/CC11 & CC12 FOR CONTINUATION

REFER TO DRAWING 934303/CC10 FOR CONTINUATION

1:500 (AT A1)

10 0 10 20 30 40 50

METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRINGS
VILLAGE 5
ENGINEERING PLAN
SHEET 2

PLAN No: 9343/03CC09 B

FILE No: 934303CC09

SHEET SIZE: A1 ORIGINAL

Plotted: 23 January, 2015 12:08:12 PM File Name: J:\9343\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC09.dwg

REFER TO DRAWING 934303/CC09 FOR CONTINUATION

REFER CC06 FOR DEMOLITION AND CONSTRUCTION STAGING FOR EXISTING KERB & PATH. REINSTATE PAVEMENT & RECONSTRUCT 150mm K&G AND 2.5m WIDE SHARED PATH AS PART OF SUPERLOT WORKS.

DEMOLISH EXISTING RAMP, RECONSTRUCT KERB & REINSTATE PAVEMENT.

DEMOLISH EXISTING KERB & PATH. REINSTATE PAVEMENT & RECONSTRUCT 150mm K&G AND 2.5mm WIDE SHARED PATH.

DIRECT CONNECTION TO EXISTING BOX CULVERT.

REFER 934303/CC07&CC70 DETAIL.

3600x1200 RCBC

RETAIN EXISTING PIT.

BAY 3

BAY 2

GREEN WOOD PARKWAY

5246

5250

PROPOSED SEDIMENT BASIN AS APPROVED IN DA 13-0065

REFER 934303/CC07&CC70 DETAIL.

REFER CC06 FOR DEMOLITION AND CONSTRUCTION STAGING FOR EXISTING KERB & PATH. REINSTATE PAVEMENT & RECONSTRUCT 150mm K&G AND 2.5m WIDE SHARED PATH AS PART OF SUPERLOT WORKS.

LAKESIDE PARADE

EXISTING VILLAGE 4

REFER TO DRAWING 934303/CC12 FOR CONTINUATION

1:500 (AT A1)

10 0 10 20 30 40 50

METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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JORDAN SPRINGS
VILLAGE 5
ENGINEERING PLAN
SHEET 3

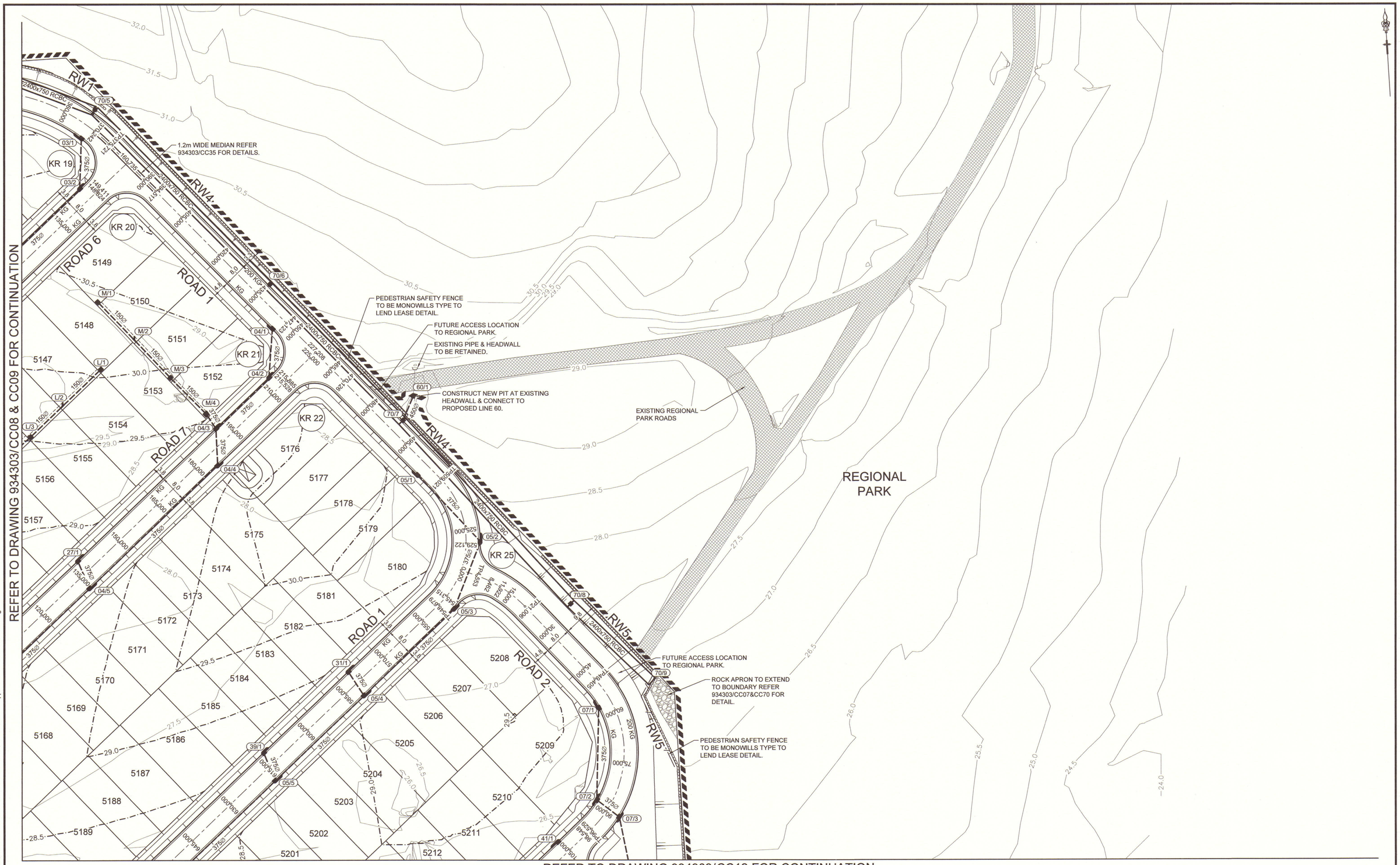
PLAN No: 9343/03CC10 B

FILE No: 934303CC10

SHEET SIZE: A1 ORIGINAL

Plotted: 23 January , 2015 9:59:29 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC10.dwg

REFER TO DRAWING 934303/CC08 & CC09 FOR CONTINUATION



REFER TO DRAWING 934303/CC12 FOR CONTINUATION

1:500 (AT A1) 10 0 10 20 30 40 50 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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JORDAN SPRINGS
VILLAGE 5
ENGINEERING PLAN
SHEET 4

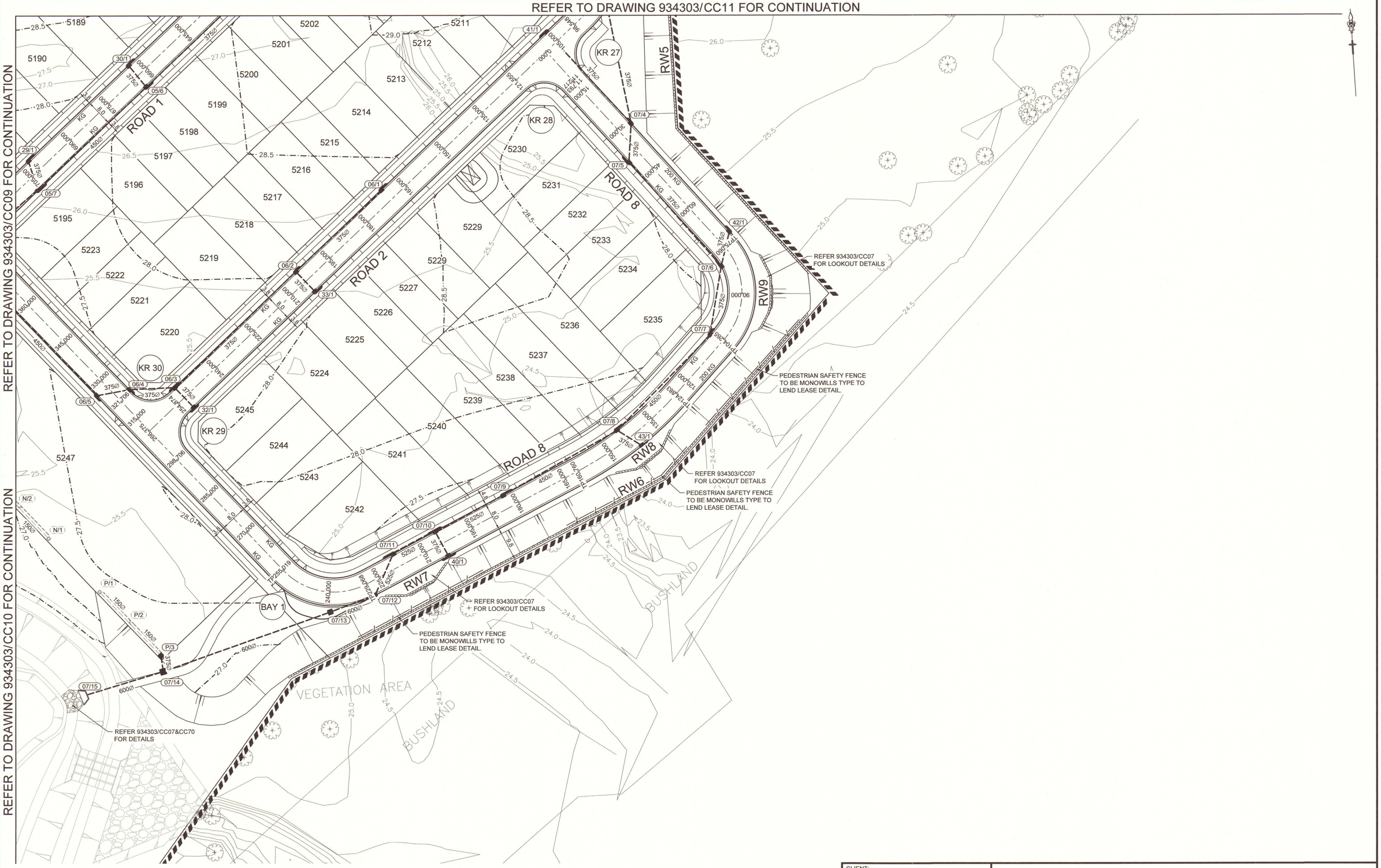
PLAN No: 9343/03CC11 B
FILE No: 934303CC11
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January, 2015 10:00:28 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC11.dwg

REFER TO DRAWING 934303/CC11 FOR CONTINUATION

REFER TO DRAWING 934303/CC09 FOR CONTINUATION

REFER TO DRAWING 934303/CC10 FOR CONTINUATION



1:500 (AT A1)

10 0 10 20 30 40 50

METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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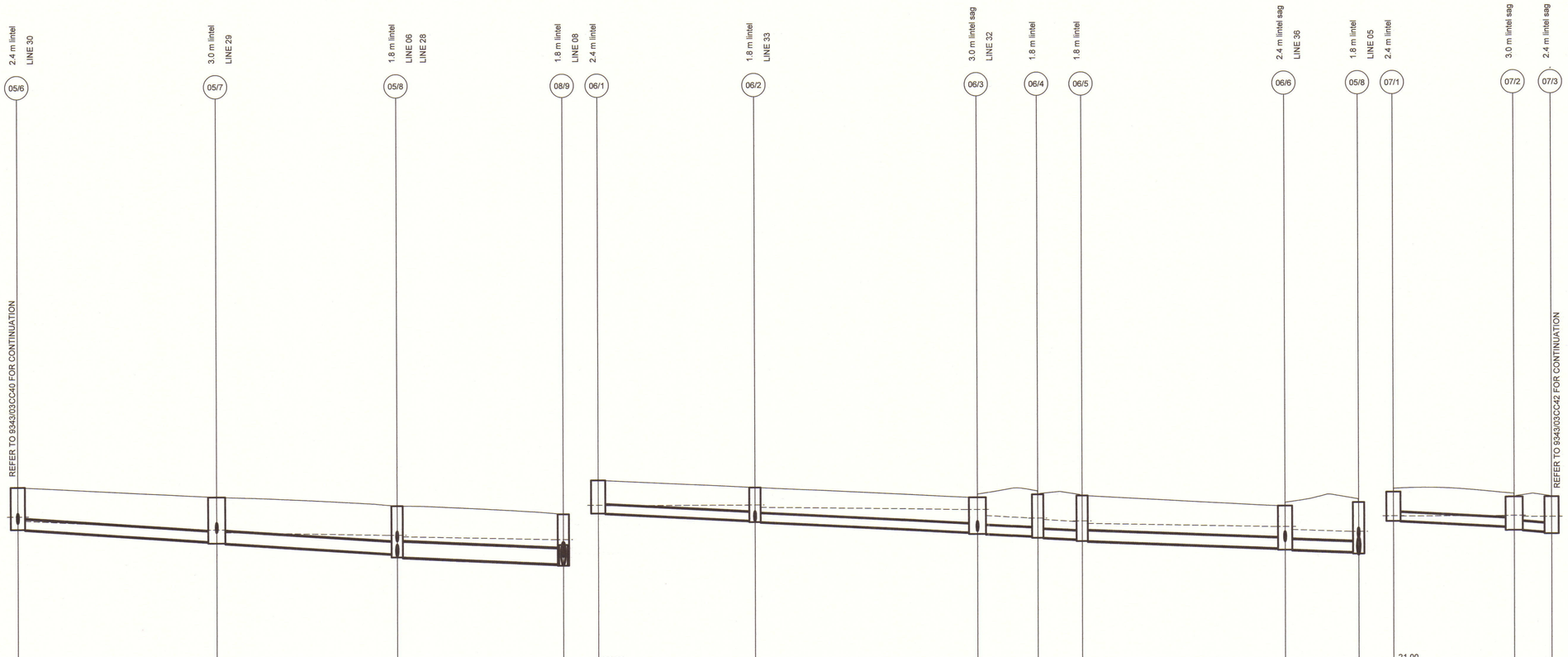
JORDAN SPRINGS
VILLAGE 5
ENGINEERING PLAN
SHEET 5

PLAN No: 9343/03CC12 B

FILE No: 934303CC12

SHEET SIZE: A1 ORIGINAL

Plotted: 23 January, 2015 10:01:00 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC12.dwg



DATUM (m)	20.00						
PEAK FLOW (L/s)		291		368		697	
PIPE SIZE (mm)		450		525		675	
PIPE CLASS		RRJ2		RRJ2		RRJ2	
PIPE GRADE (%)		1.3		1.3		0.9	
PIPE COVER MINIMUM		1.31		1.41		1.46	
FULL PIPE VELOCITY (m/s)		1.83		1.70		1.95	
HGL GRADE (%)		0.98		0.39		0.41	
WAE							
HYDRAULIC GRADE LINE	26.618 26.438		26.019 25.905		25.755 25.689		25.544 25.48
INVERT LEVEL	26.136 26.061		25.506 25.431		24.945 24.795		24.485 24.415
DESIGN SURFACE LEVEL	27.876		27.422		27.017		26.645
ROAD CHAINAGE	663.91		706.67		744.93		780.00
PIPE CHAINAGE	163.783		206.543		245.33		281.084

LINE 05

	20.00												
		30		117		225		224		232		295	
		375		375		375		375		450		450	
		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2	
		1.0		1.0		0.9		0.8		0.8		0.7	
		1.00		1.07		1.36		1.51		1.35		1.60	
		0.28		1.06		2.04		2.03		1.46		1.86	
		0.02		0.26		0.97		0.97		0.39		0.63	
	27.007		27.002 26.905		26.779 26.519		26.393 26.329		26.237 26.154		25.984 25.855		25.755 25.689
	26.672		26.335 26.273		25.794 25.724		25.608 25.538		25.461 25.386		25.046 24.976		24.865 24.795
	28.097		27.76		27.299		27.412		27.353		26.883		27.017
	171.07		204.78		252.65		322.70		327.92		371.60		744.93
	0		33.71		81.581		94.493		104.048		147.72		163.541

LINE 06

	21.00				
		27		59	
		375		375	
		RRJ2		RRJ2	
		1.0		1.0	
		1.00		1.10	
		0.24		0.54	
		-0.01		0.07	
	27.406		27.409 27.365		27.36
	27.202		26.942 26.785		26.705
	28.454		28.214		28.219
	57.27		88.64		89.39
	0		25.961		33.996

LINE 07

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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AZIMUTH: MGA
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ORIGIN:

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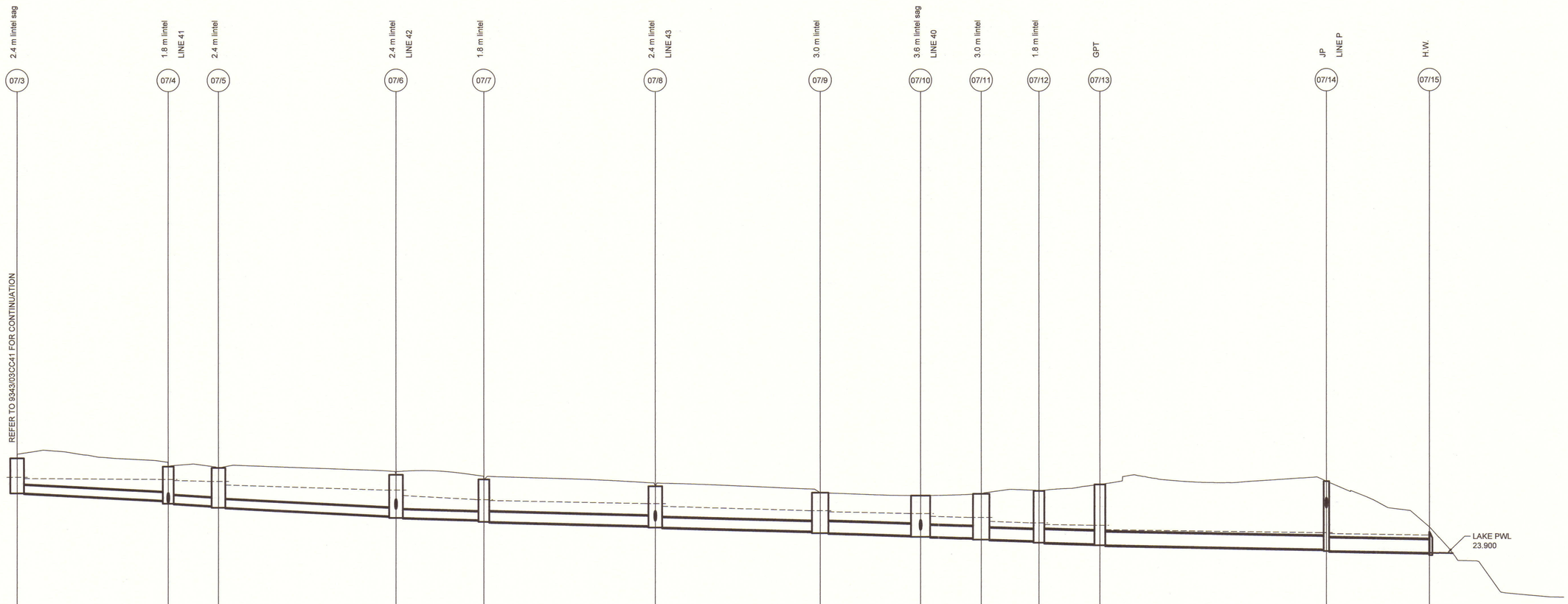
ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRINGS
VILLAGE 5
DRAINAGE LONGITUDINAL SECTIONS
SHEET 5

PLAN No: 9343/03CC41 B
FILE No: 934303CC41
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January , 2015 10:13:06 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC41.dwg



DATUM (m)	20.00																											
PEAK FLOW (L/s)		88		141		181		223		231		278		327		387		424		435		432		455				
PIPE SIZE (mm)		375		375		375		375		450		450		525		525		525		600		600		600				
PIPE CLASS		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2		RRJ2				
PIPE GRADE (%)		1.0		1.0		1.0		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.4		0.4				
PIPE COVER MINIMUM		1.36		1.31		1.44		1.59		1.45		1.41		1.21		1.28		1.56		1.71		2.12		0.60				
FULL PIPE VELOCITY (m/s)		0.80		1.28		1.64		2.02		1.45		1.75		1.51		1.79		1.96		1.54		1.53		1.61				
HGL GRADE (%)		0.15		0.38		0.63		0.96		0.39		0.56		0.34		0.48		0.57		0.3		0.29		0.32				
WAE																												
HYDRAULIC GRADE LINE	27.36	27.306	27.256	27.21	27.167	27.007	26.758	26.519	26.331	26.299	26.151	26.031	25.823	25.775	25.698	25.58	25.515	25.341	25.267	25.201	25.161	24.963	24.814	24.775	24.7			
INVERT LEVEL	26.705	26.635	26.298	26.164	26.052	25.982	25.586	25.516	25.418	25.343	25.151	25.081	24.897	24.822	24.71	24.66	24.593	24.523	24.458	24.383	24.315	24.265	24.053	23.993	23.9	23.9		
DESIGN SURFACE LEVEL	28.219			27.841		27.778		27.453		27.245		26.932		26.632		26.507		26.574		26.703		26.993		27.123		24.5		
ROAD CHAINAGE	89.39			31.48		39.35		80.00		105.92		145.06		182.57		205.00		218.49		228.61		239.69						
PIPE CHAINAGE	33.996			67.749		78.967		118.592		138.216		178.468		213.308		235.739		249.234		262.127		275.738		326.348		348.348		

LINE 07

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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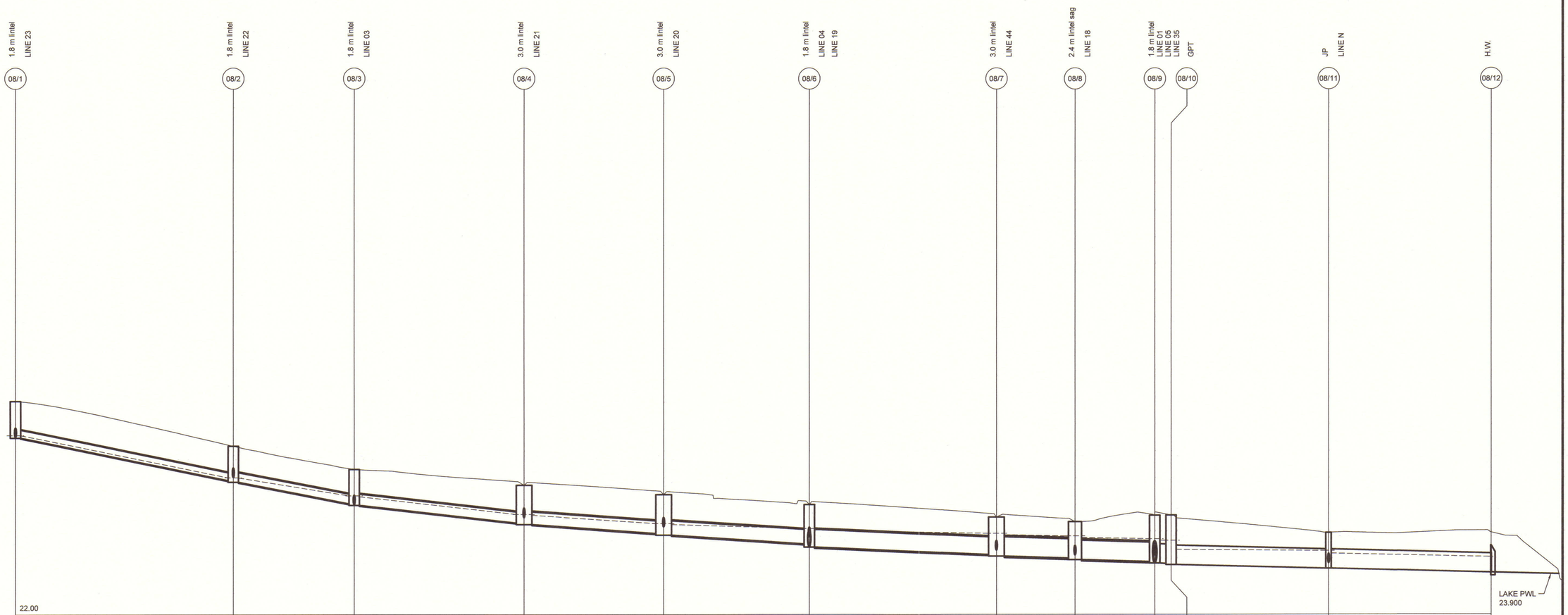
JORDAN SPRINGS
VILLAGE 5
DRAINAGE LONGITUDINAL SECTIONS
SHEET 6

PLAN No: 9343/03CC42 B

FILE No: 934303CC42

SHEET SIZE: A1 ORIGINAL

Plotted: 23 January, 2015 10:13:21 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC42.dwg



DATUM (m)	22.00																						
PEAK FLOW (L/s)		28			87			352			453			610			1151			1317	1360	3312	3307	3329
PIPE SIZE (mm)		375			450			525			600			675			825			900	900	1800x900	1800x900	1800x900
PIPE CLASS		RRJ2			RRJ2			RRJ2			RRJ2			RRJ2			RRJ2			RRJ2	RRJ2	Box Culvert	Box Culvert	Box Culvert
PIPE GRADE (%)		3.9			3.6			2.1			1.3			1.2			0.8			0.5	0.5	0.5	0.5	0.5
PIPE COVER MINIMUM		1.25			1.11			1.10			1.32			1.12			1.04			0.88	0.81	1.40	0.75	0.90
FULL PIPE VELOCITY (m/s)		0.26			0.54			1.63			1.60			1.70			2.15			2.07	2.14	2.04	2.04	2.06
HGL GRADE (%)		3.89			2.98			2.07			1.22			0.57			0.36			0.31	0.33	0.21	0.17	0.43
WAE																								
HYDRAULIC GRADE LINE	30.393			28.413	28.408			27.566	27.526			26.702	26.663			26.265	26.22		26.027	25.956			25.799	25.734		25.676	25.606			25.544	25.48	25.472	25.047			24.985	24.864			24.7
INVERT LEVEL	30.273			28.279	28.204			27.199	27.124			26.297	26.222			25.798	25.723		25.315	25.165			24.815	24.74		24.648	24.578			24.485	24.415	24.396	24.346			24.162	24.16			23.97	23.97
DESIGN SURFACE LEVEL	32.006			29.887				28.803				28.061				27.618			27.155				26.561			26.344				26.645	26.654					25.832				24.87
ROAD CHAINAGE	263.13				213.07			184.84				145.00				111.97			77.44				33.11			14.49				780.00	779.74									
PIPE CHAINAGE	0				50.902			79.137				118.834				151.406			185.46				229.16			247.527				266.158	269.973					306.796				344.764

LINE 08

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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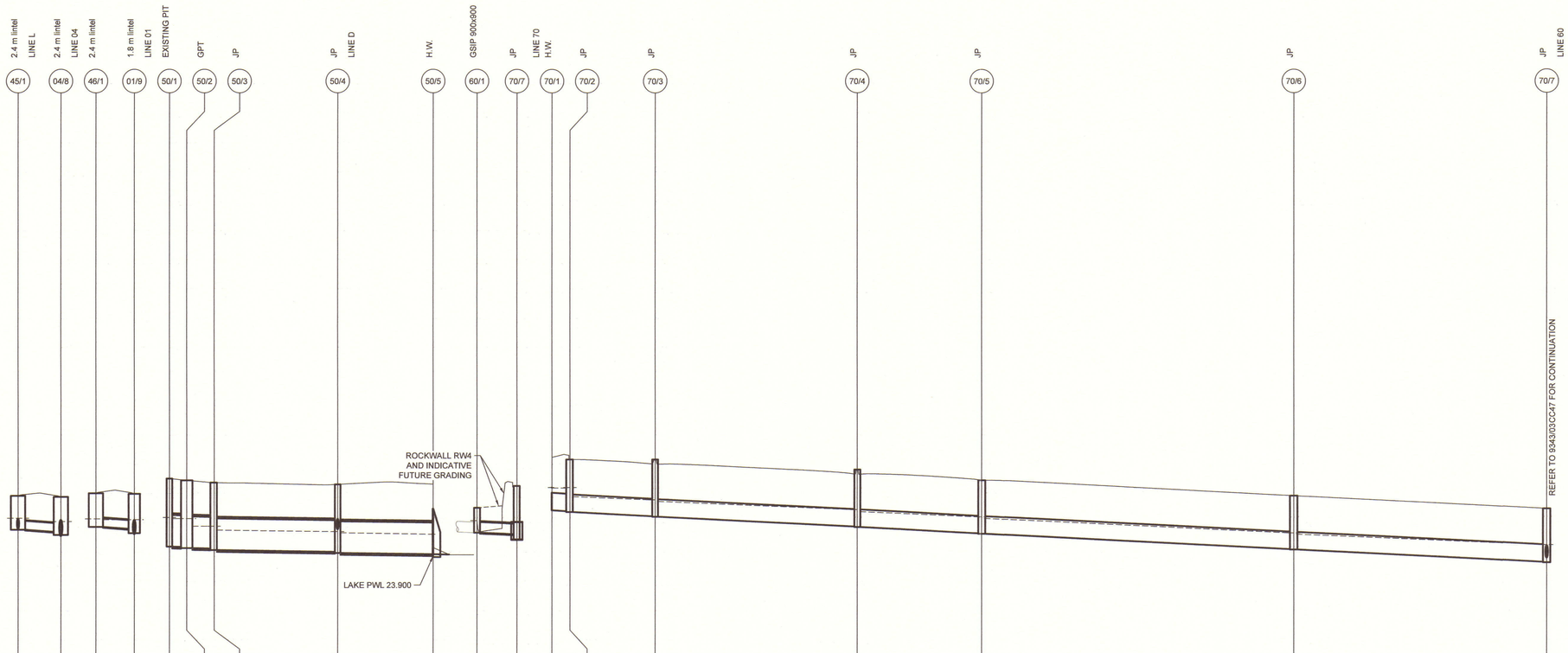
JORDAN SPRINGS
VILLAGE 5
DRAINAGE LONGITUDINAL SECTIONS
SHEET 7

PLAN No: 9343/03CC43 B
FILE No: 934303CC43
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January, 2015 10:13:34 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC43.dwg



	45/1	04/8	46/1	01/9	50/1	50/2	50/3	50/4	50/5	60/1	70/7	70/1	70/2	70/3	70/4	70/5	70/6	70/7
DATUM (m)	20.00		22.00		19.00					22.00		23.00						
PEAK FLOW (L/s)	132		41		2560	2560	2560	2599		310		4000	4000	4000	4000	4000	4000	
PIPE SIZE (mm)	375		375		1350	1350	1350	1350		450		2400x750	2400x750	2400x750	2400x750	2400x750	2400x750	
PIPE CLASS	RRJ2		RRJ2		RRJ2	RRJ2	RRJ2	RRJ2		RRJ2		Box Culvert	Box Culvert	Box Culvert	Box Culvert	Box Culvert	Box Culvert	
PIPE GRADE (%)	1.0		1.0		0.3	0.3	0.3	0.3		0.8		1.0	1.0	1.0	1.0	1.0	1.0	
PIPE COVER MINIMUM	1.10		1.10		1.44	1.35	1.42	1.35		-0.45		-0.75	1.49	1.49	1.51	1.53	1.53	
FULL PIPE VELOCITY (m/s)	1.19		0.37		1.79	1.79	1.79	1.82		1.95		2.22	2.22	2.22	2.22	2.22	2.22	
HGL GRADE (%)	0.33		0		0.07	-0.03	0.27	0.33		0.7		0.06	0.76	0.85	0.83	0.95	0.86	
WAE																		
HYDRAULIC GRADE LINE	26.288	26.257	28.337	28.336	25.38	25.377	25.053	24.89	24.818	28.279	28.219	30.679	30.676	30.31	30.172	30.108	29.743	29.656	29.436	29.37	28.734	28.683	28.219	28.156
INVERT LEVEL	25.913	25.821	28.027	27.945	24.184	24.173	24.123	24.105	24.035	23.956	23.906	23.85	27.77	27.705	27.465	29.728	29.69	29.653	29.471	29.451	29.019	28.999	28.733	28.713	28.046	28.026	27.485	27.465
DESIGN SURFACE LEVEL	27.366	27.316	29.471	29.443	27.087	27.013	26.919	26.835	25.2	28.835	29.788	30.478	31.9	31.9	31.457	31.001	30.329	29.788
ROAD CHAINAGE	38.32	33.87	111.43	109.60														
PIPE CHAINAGE	0	9.153	0	8.207	0	3.711	9.557	35.981	56.356	0	8.527	0	3.829	22.017	65.236	91.835	158.531	212.606

LINE 45 LINE 46 LINE 50 LINE 60 LINE 70

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
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AZIMUTH: MGA
DATUM: AHD
ORIGIN:

CLIENT: Lend Lease

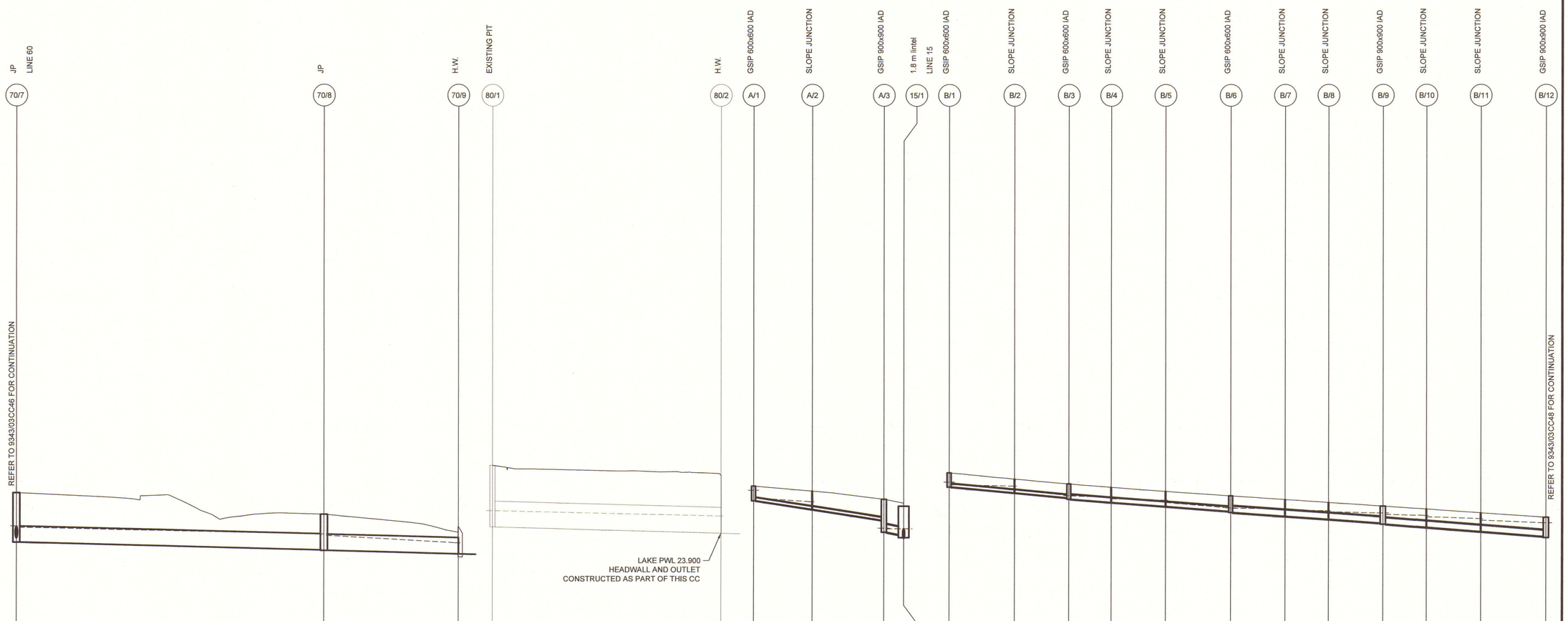
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRINGS
VILLAGE 5
DRAINAGE LONGITUDINAL SECTIONS
SHEET 10

PLAN No: 9343/03CC46 B
FILE No: 934303CC46
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January, 2015 10:14:23 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC46.dwg



LINE 70

DATUM (m)		
PEAK FLOW (L/s)	4310	4310
PIPE SIZE (mm)	2400x750	2400x750
PIPE CLASS	Box Culvert	Box Culvert
PIPE GRADE (%)	0.5	0.5
PIPE COVER MINIMUM	0.32	0.75
FULL PIPE VELOCITY (m/s)	2.39	2.39
HGL GRADE (%)	0.44	1.1

WAE			
HYDRAULIC GRADE LINE	28.219 28.156	27.844 27.782	27.443
INVERT LEVEL	27.485 27.465	27.112 27.092	26.937 26.937
DESIGN SURFACE LEVEL	29.768	28.767	27.687
ROAD CHAINAGE			
PIPE CHAINAGE	212.606	283.34	314.246

LINE 80 - EXISTING

DATUM (m)	19.00
PEAK FLOW (L/s)	7381
PIPE SIZE (mm)	3600x1200
PIPE CLASS	EXISTING Box Culvert
PIPE GRADE (%)	0.5
PIPE COVER MINIMUM	1.46
FULL PIPE VELOCITY (m/s)	1.71
HGL GRADE (%)	0.45

WAE		
HYDRAULIC GRADE LINE	24.938	24.7
INVERT LEVEL	24.184	23.9 23.9
DESIGN SURFACE LEVEL	27.034	26.579
ROAD CHAINAGE		
PIPE CHAINAGE	0	52.547

LINE A

DATUM (m)	25.00		
PEAK FLOW (L/s)	22	33	46
PIPE SIZE (mm)	150	150	375
PIPE CLASS	uPVC	uPVC	RRJ2
PIPE GRADE (%)	3.0	3.0	2.4
PIPE COVER MINIMUM	0.50	0.68	1.10
FULL PIPE VELOCITY (m/s)	1.24	1.87	0.42
HGL GRADE (%)	1.33	3.17	-0.17

WAE				
HYDRAULIC GRADE LINE	31.538	31.359 31.145	30.622 30.109	30.117 30.076
INVERT LEVEL	31.404	30.999 30.999	30.504 29.954	29.844 29.708
DESIGN SURFACE LEVEL	32.086	31.853	31.483	31.163
ROAD CHAINAGE			218.81	218.79
PIPE CHAINAGE	0	13.5	30	34.55

LINE B

DATUM (m)	24.00										
PEAK FLOW (L/s)	13	25	36	44	54	66	76	84	94	102	111
PIPE SIZE (mm)	150	150	225	225	225	300	300	300	300	300	300
PIPE CLASS	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC
PIPE GRADE (%)	1.8	1.8	1.5	1.5	1.5	1.4	1.4	1.4	1.5	1.5	1.5
PIPE COVER MINIMUM	0.45	0.46	0.45	0.45	0.45	0.44	0.44	0.45	0.50	0.52	0.54
FULL PIPE VELOCITY (m/s)	0.73	1.44	0.90	1.11	1.37	0.94	1.08	1.19	1.33	1.44	1.58
HGL GRADE (%)	0.42	1.97	0.64	0.56	1.69	0.26	0.36	0.45	0.56	0.66	0.79

WAE												
HYDRAULIC GRADE LINE	31.153	31.09 30.917	30.67 30.641	30.578 30.512	30.442 30.341	30.088 30.074	30.042 29.992	29.956 29.908	29.852 29.79	29.735 29.677	29.595 29.524	29.406
INVERT LEVEL	31.047	30.777 30.777	30.552 30.482	30.336 30.336	30.148 30.148	29.923 29.873	29.698 29.698	29.558 29.558	29.383 29.333	29.183 29.183	28.996 28.996	28.771
DESIGN SURFACE LEVEL	31.697	31.407	31.194	31.038	30.853	30.648	30.475	30.339	30.172	30.036	29.864	29.662
ROAD CHAINAGE												
PIPE CHAINAGE	0	15	27.5	37.253	49.753	64.753	77.253	87.253	99.753	109.753	122.253	137.253

V 1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

H 1:500 (AT A1) 10 0 10 20 30 40 50 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

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ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRINGS
VILLAGE 5
DRAINAGE LONGITUDINAL SECTIONS
SHEET 11

PLAN No: 9343/03CC47 B
FILE No: 934303CC47
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January , 2015 10:14:38 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC47.dwg

PIT SCHEDULE

PIT NAME (-)	PIT TYPE (-)	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
01/1	2.4 m lintel	290228.032	6266086.16	1.40	0.9W x 0.9L
01/2	1.8 m lintel	290247.783	6266079.851	1.53	0.9W x 0.9L
01/3	1.8 m lintel	290275.356	6266084.179	1.61	0.9W x 0.9L
01/4	3.0 m lintel sag	290309.286	6266082.145	1.77	0.9W x 0.9L
01/5	1.8 m lintel	290312.059	6266064.795	1.63	0.9W x 0.9L
01/6	2.4 m lintel	290310.362	6266038.257	1.57	0.9W x 0.9L
01/7	2.4 m lintel	290307.853	6265999.035	1.59	0.9W x 1.2L
01/8	2.4 m lintel	290305.753	6265966.198	1.55	0.9W x 0.9L
01/9	1.8 m lintel	290303.525	6265931.371	1.68	0.9W x 0.9L
01/10	2.4 m lintel	290301.268	6265896.071	1.72	1.2W x 0.9L
01/11	2.4 m lintel	290298.794	6265857.402	1.76	1.2W x 0.9L
01/12	2.4 m lintel sag	290297.447	6265836.341	1.81	1.2W x 1.5L
01/13	1.8 m lintel	290305.81	6265825.409	2.40	1.5W x 1.5L SPECIAL >2m DEEP
01/14	1.8 m lintel	290354.416	6265822.3	2.49	1.5W x 1.2L SPECIAL >2m DEEP
01/15	1.8 m lintel	290381.39	6265820.575	2.21	1.5W x 1.2L SPECIAL >2m DEEP
01/16	2.4 m lintel	290417.729	6265818.691	1.94	1.5W x 1.2L
01/17	1.8 m lintel	290439.122	6265820.008	1.91	1.5W x 1.2L
01/18	3.0 m lintel sag	290466.216	6265825.271	1.95	1.5W x 1.2L
02/1	1.8 m lintel	290377.691	6266031.864	1.55	0.9W x 0.9L
02/2	2.4 m lintel	290374.642	6265984.186	1.63	0.9W x 0.9L
02/3	3.0 m lintel	290371.286	6265931.718	1.59	0.9W x 0.9L
02/4	2.4 m lintel	290368.772	6265892.407	1.58	1.2W x 0.9L
02/5	1.8 m lintel	290376.222	6265883.563	1.64	1.2W x 0.9L
02/6	2.4 m lintel sag	290372.903	6265831.664	1.68	0.9W x 1.5L
03/1	2.4 m lintel	290577.499	6266106.708	1.34	0.9W x 0.9L
03/2	1.8 m lintel	290576.141	6266092.625	1.40	0.9W x 1.2L
03/3	2.4 m lintel	290541.161	6266063.17	1.42	0.9W x 0.9L
03/4	3.0 m lintel	290511.401	6266038.11	1.42	0.9W x 0.9L
03/5	1.8 m lintel	290508.179	6266025.282	1.51	0.9W x 0.9L
03/6	1.8 m lintel	290491.178	6266017.541	1.57	0.9W x 0.9L
03/7	2.4 m lintel sag	290471.475	6266016.1	1.66	0.9W x 1.2L
04/1	1.8 m lintel	290627.907	6266049.397	1.34	0.9W x 1.2L
04/2	1.8 m lintel	290626.079	6266035.844	1.38	1.2W x 0.9L
04/3	1.8 m lintel	290610.182	6266022.457	1.47	0.9W x 1.2L
04/4	1.8 m lintel	290609.99	6266011.837	1.58	1.2W x 0.9L
04/5	2.4 m lintel	290571.664	6265979.563	1.53	0.9W x 0.9L
04/6	2.4 m lintel	290535.231	6265948.885	1.58	0.9W x 0.9L
04/7	1.8 m lintel	290514.803	6265931.682	1.60	1.2W x 0.9L
04/8	2.4 m lintel	290491.321	6265916.649	1.63	1.2W x 0.9L
04/9	2.4 m lintel sag	290470.512	6265911.099	1.73	1.2W x 1.5L
05/1	1.8 m lintel	290666.063	6266005.485	1.42	0.9W x 0.9L
05/2	2.4 m lintel	290682.608	6265985.573	1.48	0.9W x 0.9L
05/3	1.8 m lintel	290674.005	6265967.019	1.57	0.9W x 0.9L
05/4	2.4 m lintel	290647.066	6265944.224	1.60	0.9W x 0.9L
05/5	2.4 m lintel	290620.466	6265921.825	1.63	0.9W x 0.9L
05/6	2.4 m lintel	290584.224	6265891.307	1.81	0.9W x 0.9L
05/7	3.0 m lintel	290551.516	6265863.764	1.99	1.2W x 0.9L
05/8	1.8 m lintel	290520.599	6265840.344	2.22	1.2W x 1.2L SPECIAL >2m DEEP
06/1	2.4 m lintel	290649.088	6265857.551	1.43	0.9W x 0.9L
06/2	1.8 m lintel	290623.302	6265835.839	1.49	0.9W x 0.9L
06/3	3.0 m lintel sag	290586.684	6265805.004	1.58	0.9W x 0.9L
06/4	1.8 m lintel	290573.774	6265805.237	1.87	1.2W x 0.9L
06/5	1.8 m lintel	290564.29	6265804.08	1.97	0.9W x 0.9L
06/6	2.4 m lintel sag	290536.16	6265837.486	1.91	0.9W x 0.9L
07/1	2.4 m lintel	290712.907	6265936.47	1.25	0.9W x 0.9L
07/2	3.0 m lintel sag	290710.701	6265910.603	1.43	0.9W x 0.9L
07/3	2.4 m lintel sag	290716.769	6265905.336	1.58	0.9W x 0.9L
07/4	1.8 m lintel	290721.351	6265871.896	1.68	0.9W x 1.2L
07/5	2.4 m lintel	290720.019	6265860.757	1.80	0.9W x 1.2L
07/6	2.4 m lintel	290744.394	6265829.516	1.94	0.9W x 0.9L
07/7	1.8 m lintel	290739.981	6265810.395	1.90	0.9W x 0.9L
07/8	2.4 m lintel	290711.591	6265784.759	1.85	0.9W x 0.9L
07/9	3.0 m lintel	290678.559	6265768.447	1.81	1.2W x 0.9L
07/10	3.6 m lintel sag	290658.139	6265759.165	1.85	1.2W x 0.9L
07/11	3.0 m lintel	290645.854	6265753.581	2.05	1.2W x 0.9L SPECIAL >2m DEEP
07/12	1.8 m lintel	290639.959	6265742.114	2.32	1.2W x 0.9L SPECIAL >2m DEEP
07/13	GPT	290626.925	6265738.194	2.73	ROCLA CDS P1009
07/14	JP	290578.282	6265724.221	3.13	1.2W x 1.2L SPECIAL >2m DEEP
07/15	H.W.	290555.892	6265718.955	0.60	STACKED ROCK
08/1	1.8 m lintel	290463.745	6266085.623	1.73	0.9W x 1.2L
08/2	1.8 m lintel	290461.648	6266034.765	1.68	0.9W x 1.2L
08/3	1.8 m lintel	290459.845	6266006.587	1.68	1.2W x 0.9L
08/4	3.0 m lintel	290457.492	6265966.959	1.84	1.2W x 1.2L
08/5	3.0 m lintel	290458.344	6265934.399	1.90	1.2W x 1.2L
08/6	1.8 m lintel	290463.052	6265900.672	1.99	1.5W x 1.5L
08/7	3.0 m lintel	290474.711	6265858.556	1.82	1.5W x 0.9L
08/8	2.4 m lintel sag	290481.436	6265841.465	1.77	1.5W x 0.9L
08/9	1.8 m lintel	290488.653	6265824.288	2.23	SPECIAL TO STRUCTURAL DETAIL
08/10	GPT	290490.297	6265820.845	2.31	ROCLA CDS P1518
08/11	JP	290506.164	6265787.616	1.67	SPECIAL TO STRUCTURAL DETAIL
08/12	H.W.	290494.514	6265751.48	0.90	HEADWALL TO STRUCTURAL DETAIL
09/1	1.8 m lintel	290412.777	6265810.732	1.46	0.9W x 0.9L
10/1	3.0 m lintel	290237.717	6265829.764	1.53	0.9W x 0.9L
10/2	2.4 m lintel sag	290278.356	6265827.165	1.66	0.9W x 0.9L
11/1	3.0 m lintel sag	290289.464	6265836.851	1.43	0.9W x 0.9L
12/1	2.4 m lintel	290293.446	6265899.122	1.45	0.9W x 0.9L
13/1	2.4 m lintel	290298.01	6265970.472	1.45	0.9W x 0.9L
14/1	1.8 m lintel	290300.33	6266006.748	1.47	0.9W x 1.2L
15/1	1.8 m lintel	290302.512	6266040.852	1.46	0.9W x 0.9L

PIT SCHEDULE

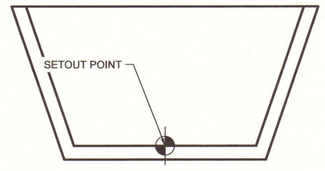
PIT NAME (-)	PIT TYPE (-)	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
16/1	3.0 m lintel sag	290364.919	6265832.175	1.33	0.9W x 0.9L
17/1	1.8 m lintel	290383.045	6265990.24	1.48	0.9W x 0.9L
18/1	2.4 m lintel sag	290474.087	6265838.306	1.44	0.9W x 0.9L
19/1	2.4 m lintel	290453.738	6265907.044	1.47	0.9W x 0.9L
20/1	2.4 m lintel	290449.803	6265942.171	1.47	0.9W x 0.9L
21/1	3.0 m lintel	290449.786	6265974.325	1.46	0.9W x 1.2L
22/1	1.8 m lintel	290454.069	6266041.61	1.49	0.9W x 1.2L
23/1	1.8 m lintel	290440.324	6266095.245	1.45	
23/2	1.8 m lintel	290444.286	6266088.229	1.59	0.9W x 0.9L
24/1	2.4 m lintel sag	290472.494	6266024.051	1.44	0.9W x 0.9L
25/1	2.4 m lintel sag	290469.9	6265919.099	1.44	0.9W x 0.9L
26/1	2.4 m lintel	290531.194	6265955.944	1.44	0.9W x 0.9L
27/1	2.4 m lintel	290568.814	6265987.622	1.45	0.9W x 0.9L
28/1	3.0 m lintel	290517.966	6265848.14	1.44	0.9W x 0.9L
29/1	2.4 m lintel	290549.268	6265872.33	1.45	0.9W x 0.9L
30/1	2.4 m lintel	290579.488	6265897.778	1.44	0.9W x 0.9L
31/1	2.4 m lintel	290643.04	6265951.292	1.44	0.9W x 0.9L
32/1	2.4 m lintel sag	290591.837	6265798.884	1.34	0.9W x 0.9L
33/1	2.4 m lintel	290628.475	6265829.736	1.34	0.9W x 0.9L
34/1	3.6 m lintel sag	290276.392	6265819.274	1.42	0.9W x 0.9L
35/1	2.4 m lintel sag	290468.314	6265817.55	1.50	0.9W x 0.9L
36/1	3.0 m lintel sag	290542.279	6265842.639	1.43	0.9W x 0.9L
37/1	GSIP 1200x1200	290272.735	6266089.277	3.12	1.2W x 1.2L SPECIAL >2m DEEP
38/1	2.4 m lintel	290290.846	6265858.463	1.44	0.9W x 0.9L
39/1	1.8 m lintel	290617.719	6265929.97	1.45	0.9W x 0.9L
40/1	3.6 m lintel sag	290661.54	6265751.924	1.42	0.9W x 0.9L
41/1	2.4 m lintel	290698.989	6265899.572	1.54	0.9W x 0.9L
42/1	1.8 m lintel	290747.361	6265839.39	1.46	0.9W x 0.9L
43/1	1.8 m lintel	290718.547	6265779.821	1.45	0.9W x 0.9L
44/1	3.0 m lintel	290467.072	6265856.158	1.43	0.9W x 0.9L
45/1	2.4 m lintel	290492.077	6265925.771	1.45	0.9W x 0.9L
46/1	2.4 m lintel	290295.659	6265933.71	1.44	0.9W x 0.9L
50/1	EXISTING PIT	290214.667	6265702.12	2.903	EXISTING SPLITTER PIT
50/2	GPT	290217.098	6265699.316	2.89	ROCLA CDS P3018
50/3	JP	290220.928	6265694.899	2.884	SPECIAL TO STRUCTURAL DETAIL
50/4	JP	290247.349	6265695.27	2.929	SPECIAL TO STRUCTURAL DETAIL
50/5	H.W.	290267.722	6265695.557	1.35	HEADWALL TO STRUCTURAL DETAIL
A/1	GSIP 600x600 IAD	290268.033	6266043.074	0.682	
A/2	SLOPE JUNCTION	290281.506	6266042.212	0.854	
A/3	GSIP 900x900 IAD	290297.972	6266041.159	1.53	
B/1	GSIP 600x600 IAD	290267.076	6266028.105	0.65	
B/2	SLOPE JUNCTION	290266.118	6266013.135	0.63	
B/3	GSIP 600x600 IAD	290265.32	6266000.661	0.712	
B/4	SLOPE JUNCTION	290264.449	6265990.946	0.702	
B/5	SLOPE JUNCTION	290263.651	6265978.472	0.705	
B/6	GSIP 600x600 IAD	290262.693	6265963.503	0.775	
B/7	SLOPE JUNCTION	290261.895	6265951.028	0.777	
B/8	SLOPE JUNCTION	290261.257	6265941.048	0.781	
B/9	GSIP 900x900 IAD	290260.459	6265928.574	0.838	
B/10	SLOPE JUNCTION	290259.821	6265918.594	0.852	
B/11	SLOPE JUNCTION	290259.023	6265906.12	0.868	
B/12	GSIP 900x900 IAD	290258.065	6265891.15	0.941	
B/13	SLOPE JUNCTION	290257.268	6265878.676	1.022	
B/14	SLOPE JUNCTION	290256.294	6265863.447	1.095	
B/15	GSIP 900x900 IAD	290256.166	6265861.452	1.173	
B/16	GSIP 900x900 IAD	290286.105	6265859.537	1.525	
C/5	GSIP 900x900 IAD	290246.899	6265716.563	1.977	
C/6	DUMMY	290248.71	6265701.511	2.276	DIRECT CONNECTION TO RCBC
D/4	GSIP 900x900 IAD	290244.856	6265684.628	1.899	
E/8	SLOPE JUNCTION	290407.749	6265778.006	1.034	
E/9	GSIP 900x900 IAD	290409.745	6265777.878	0.993	
E/10	GSIP 900x900 IAD	290411.541	6265805.96	1.626	
F/1	GSIP 600x600 IAD	290330.476	6266037.055	0.657	
F/2	SLOPE JUNCTION	290340.456	6266036.417	1.133	
F/3	GSIP 900x900 IAD	290358.669	6266035.252	1.344	
F/4	GSIP 900x900 IAD	290373.055	6266034.582	1.529	
G/1	GSIP 600x600 IAD	290405.242	6266030.999	0.692	
G/2	GSIP 600x600 IAD	290418.715	6266030.137	0.726	
G/3	GSIP 600x600 IAD	290417.933	6266017.912	0.756	
G/4	SLOPE JUNCTION	290416.885	6266005.453	0.705	
G/5	SLOPE JUNCTION	290416.088	6265992.979	0.688	
G/6	GSIP 600x600 IAD	290415.449	6265982.999	0.767	
G/7	SLOPE JUNCTION	290414.651	6265970.525	0.807	
G/8	SLOPE JUNCTION	290413.853	6265958.05	0.857	
G/9	GSIP 900x900 IAD	290413.194	6265947.366	0.977	
G/10	GSIP 900x900 IAD	290444.846	6265945.342	1.532	
H/1	GSIP 600x600 IAD	290433.068	6266043.043	0.69	
H/2	GSIP 900x900 IAD	290449.534	6266041.989	1.535	
J/1	GSIP 600x600 IAD	290497.583	6266078.822	0.782	
J/2	SLOPE JUNCTION	290496.785	6266066.347	0.676	
J/3	GSIP 900x900 IAD	290496.391	6266064.102	0.933	
J/4	SLOPE JUNCTION	290495.754	6266054.138	0.964	
J/5	SLOPE JUNCTION	290495.116	6266044.159	0.952	
J/6	GSIP 900x900 IAD	290494.348	6266032.156	1.779	
K/1	GSIP 600x600 IAD	290512.542	6266077.702	0.777	
K/2	SLOPE JUNCTION	290499.121	6266066.4	0.846	
L/1	GSIP 600x600 IAD	290578.848	6266041.239	0.678	
L/2	SLOPE JUNCTION	290567.374	6266031.578	0.675	
L/3	GSIP 600x600 IAD	290557.813	6266023.526	0.793	
L/4	SLOPE JUNCTION	290550.194	6266017.437	0.708	
L/5	SLOPE JUNCTION	290540.632	6266009.386	0.75	

PIT SCHEDULE

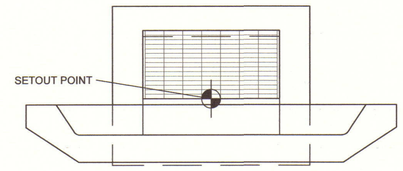
PIT NAME (-)	PIT TYPE (-)	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
L/6	GSIP 900x900 IAD	290532.983	6266002.945	0.836	
L/7	SLOPE JUNCTION	290523.421	6265994.893	0.882	
L/8	GSIP 900x900 IAD	290493.015	6265969.289	1.098	
L/9	GSIP 900x900 IAD	290490.992	6265968.858	1.172	
L/10	GSIP 900x900 IAD	290491.804	6265931.016	1.673	
M/1	GSIP 600x600 IAD	290579.134	6266060.306	0.6	
M/2	SLOPE JUNCTION	290588.796	6266048.832	0.737	
M/3	GSIP 600x600 IAD	290598.297	6266037.549	0.689	
M/4	GSIP 900x900 IAD	290607.763	6266026.695	1.53	
N/5	GSIP 900x900 IAD	290519.662	6265798.393	0.99	
P/3	GSIP 900x900 IAD	290577.98	6265728.75	1.212	
Q/1	GSIP 600x600 IAD	290413.782	6265933.004	0.787	
Q/2	SLOPE JUNCTION	290414.481	6265920.433	0.729	
Q/3	GSIP 600x600 IAD	290415.18	6265907.863	0.756	
Q/4	SLOPE JUNCTION	290415.878	6265895.293	0.775	
Q/5	SLOPE JUNCTION	290416.437	6265885.237	0.773	
Q/6	GSIP 900x900 IAD	290417.136	6265872.667	0.831	
Q/7	SLOPE JUNCTION	290417.98	6265857.481	0.858	
Q/8	GSIP 900x900 IAD	290418.091	6265855.483	0.931	
Q/9	GSIP 900x900 IAD	290458.531	6265856.712	1.579	

PIT SCHEDULE

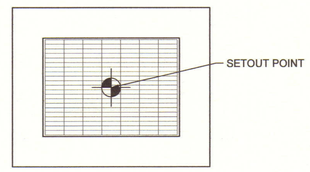
PIT NAME (-)	PIT TYPE (-)	PIT EASTING (m)	PIT NORTHING (m)	PIT DEPTH (m)	COMMENTS
60/1	GSIP 900x900	290666.42	6266027.99	1.07	CONNECT EXISTING PIPE
70/1	H.W.	290497.25	6266122.74	0.75	HEADWALL TO STRUCTURAL DETAIL
70/2	JP	290499.73	6266119.82	2.25	SPECIAL TO STRUCTURAL DETAIL
70/3	JP	290517.16	6266125.00	2.45	SPECIAL TO STRUCTURAL DETAIL
70/4	JP	290560.38	6266124.44	2.46	SPECIAL TO STRUCTURAL DETAIL
70/5	JP	290583.75	6266111.74	2.29	SPECIAL TO STRUCTURAL DETAIL
70/6	JP	290627.51	6266061.40	2.30	SPECIAL TO STRUCTURAL DETAIL
70/7	JP	290662.68	6266020.33	2.30	SPECIAL TO STRUCTURAL DETAIL
70/8	JP	290707.46	6265965.58	1.68	SPECIAL TO STRUCTURAL DETAIL
70/9	H.W.	290728.46	6265942.90	0.75	HEADWALL TO STRUCTURAL DETAIL



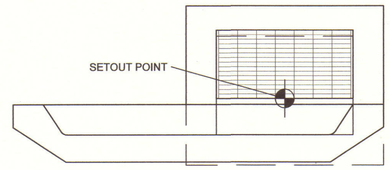
SETOUT DETAIL HEADWALL
SCALE 1:20



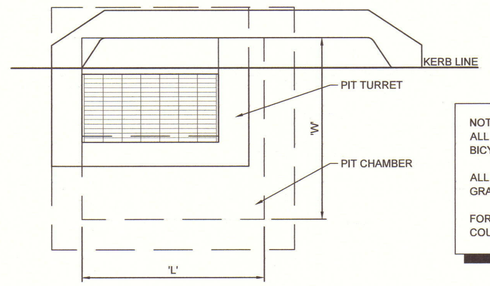
SETOUT DETAIL KERB INLET PIT (SAG)
SCALE 1:20



GRATED SURFACE INLET PIT (GSIP)
SCALE 1:20



SETOUT DETAIL KERB INLET PIT (LINTEL)
SCALE 1:20



PIT CHAMBER DIMENSION (TYPICAL)
SCALE 1:20

NOTES:
ALL GRATED PIT COVERS IN ROADS ARE TO BE BICYCLE SAFE.

ALL SAG PITS TO HAVE WELDLOCK GGSB 94 SD GRATES

FOR ALL PITS <2m DEEP REFER TO PENRITH CITY COUNCIL STANDARD PIT DRAWINGS.

1:20 (AT A1)

400 200 0 400 800 1200 1600 2000
MILLIMETRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
A	ISSUED FOR TENDER	AS	TG	DJH	RO	03/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS
PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 F 02 4721 7638 W www.jwprince.com.au E jwp@jwprince.com.au

AZIMUTH: MGA
DATUM: AHD
ORIGIN:

CLIENT: Lend Lease

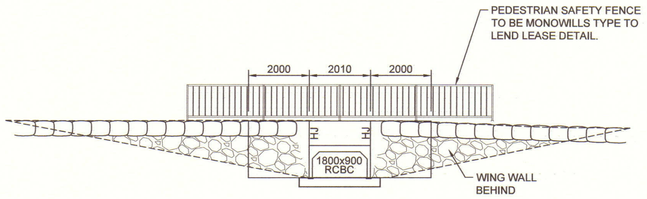
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRINGS
VILLAGE 5
PIT SCHEDULE

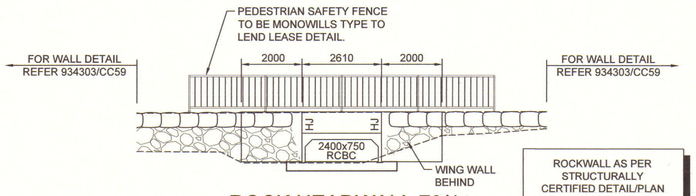
PLAN No: 9343/03CC52 B
FILE No: 934303CC52
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January, 2015 10:16:02 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC52.dwg



ROCK HEADWALL 08/12

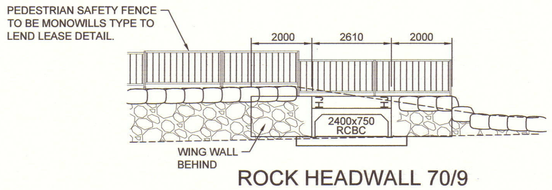
SCALE 1:100



ROCKWALL AS PER STRUCTURALLY CERTIFIED DETAIL/PLAN

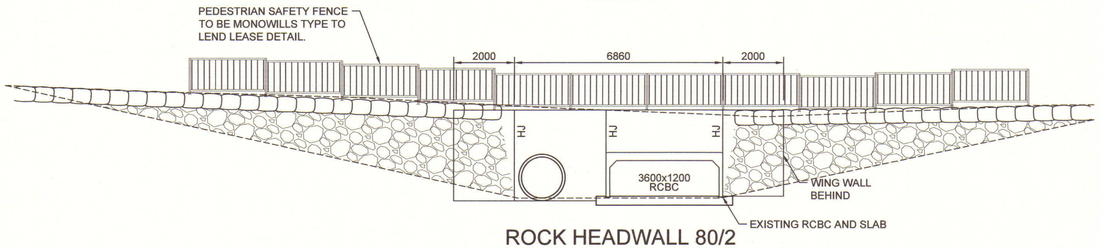
ROCK HEADWALL 70/1

SCALE 1:100



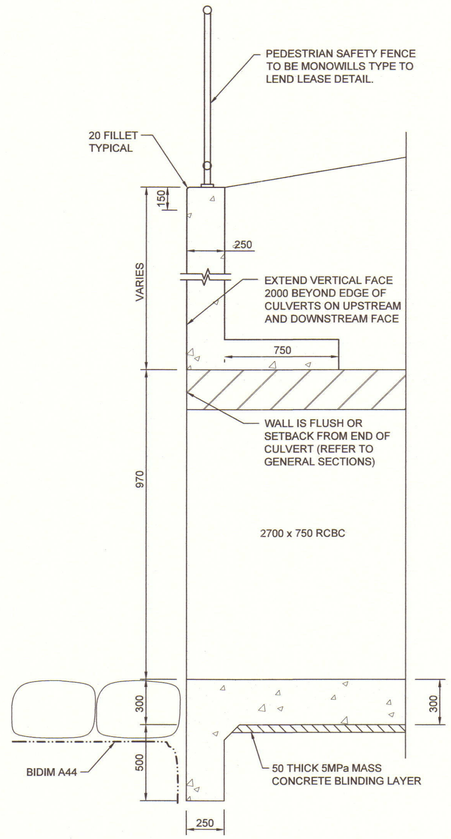
ROCK HEADWALL 70/9

SCALE 1:100



ROCK HEADWALL 80/2

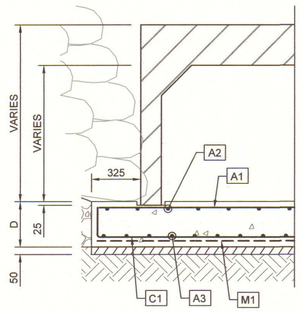
SCALE 1:100



HEADWALL TYPICAL SECTION

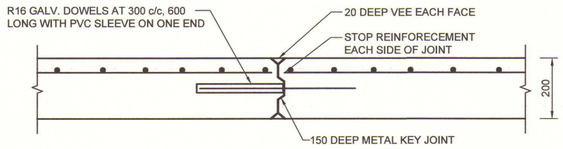
NOT TO SCALE

THESE PLANS ARE TO BE READ IN CONJUNCTION WITH STRUCTURALLY CERTIFIED PLANS PREPARED BY STRUCTURAL ENGINEER. DIMENSIONS AND DETAILS SHOWN IN THE STRUCTURAL PLANS ARE TO TAKE PRECEDENCE OVER INFORMATION ON THIS PLAN.



TYPICAL SLAB DETAIL

SCALE 1:20



HEADWALL JOINT DETAIL (HJ)

SCALE 1:20

1:20 (AT A1) 400 200 0 400 800 1200 1600 2000 MILLIMETRES

1:100 (AT A1) 2 1 0 1 2 3 4 5 6 7 8 9 10 METRES

B	ISSUED FOR PCA APPROVAL	AS	AS	DJH	MS	23/01/15
1	ISSUE FOR INFORMATION	AS	TG			13/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRINGS
VILLAGE 5
ROCK HEADWALL SECTIONS & DETAILS

PLAN No: 9343/03CC70 B
FILE No: 934303CC70
SHEET SIZE: A1 ORIGINAL

Plotted: 23 January 2015 10:23:43 AM File Name: J:\9343D\VILLAGE 5\CC - Construction Certificate Approval Plans\934303CC70.dwg