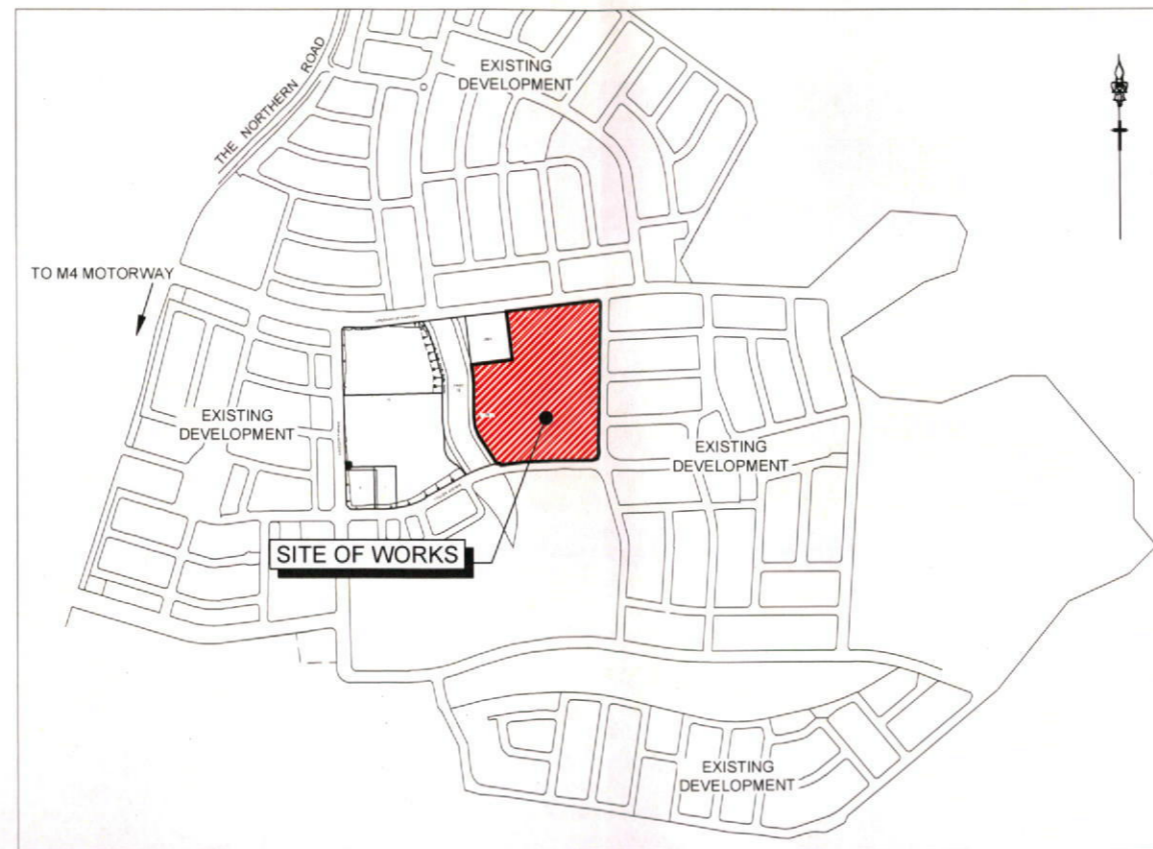




**JORDAN SPRINGS - VILLAGE OVAL SITE  
CONSTRUCTION CERTIFICATE**  
BULK EARTHWORKS, CAR PARK AND DRAINAGE WORKS  
COUNCIL REFERENCE DA14/0209



**RECEIVED**  
R/MGT  
13 JUL 2015  
PENRITH CITY COUNCIL

LOCALITY SKETCH

Prepared By:

**J. WYNDHAM PRINCE**  
CONSULTING CIVIL INFRASTRUCTURE ENGINEERS  
& PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750

P 02 4720 3300 F 02 4720 3399

W [www.jwprince.com.au](http://www.jwprince.com.au)

E [jwp@jwprince.com.au](mailto:jwp@jwprince.com.au)

**ISSUED FOR CONSTRUCTION APPROVAL**

PLAN No.  
934315/CC20 A  
FILE No. 934315CC20

Plotted: 15 October, 2014 12:15:30 PM File Name: J:\934315\CC - Construction Certificate Approval Plans\934315CC21.dwg

LEGEND			
DESCRIPTION	PROPOSED	EXISTING	FUTURE
EXTENT OF WORKS			
KERB & GUTTER			
KERB ONLY			
INTEGRAL KERB / DISH CROSSING			
LOT BOUNDARY			
PRAM RAMP			
FOOTPATH			
CYCLEWAY			
DRAINAGE LINE, PIT & EASEMENT			
DRAINAGE LINE & PIT			
HEADWALL			
EXTENT OF CUT			
EXTENT OF FILL			
CONTOURS			
CATCH DRAIN			
ELECTRICITY, POWER POLE			
TELECOM, BOX			
WATER, STOP VALVE, HYDRANT			
SEWER, MANHOLE			
GAS			
TREES TO BE RETAINED			
TREES TO BE REMOVED			
SURVEY MARKS - BENCH MARKS			
STATE SURVEY MARKS			
ROAD NAMES	ROAD 18	ROAD 18	ROAD 18
STAGE LABELS	STAGE 3B	STAGE 3B	STAGE 3B
STAGE BOUNDARY			
SUBSOIL DRAINAGE			
BATTER TICKS			
BATTER EXTENTS			
STABILISED SITE ACCESS			
SEDIMENT FENCE			
STRAW BALE BARRIER			
PROTECTIVE FENCING			
MESH AND GRAVEL INLET FILTER			
GEOTEXTILE INLET FILTER			
PROPOSED LIGHT POLE (BY OTHERS)			

### GENERAL NOTES:

- ALL WORKS ARE TO BE IN ACCORDANCE WITH PENRITH COUNCIL'S "STANDARD SPECIFICATION FOR ENGINEERING WORKS".
- SURVEY MARKS:-
  - STATE SURVEY MARKS SHOWN THUS SHALL BE SET IN TOP OF THE KERB AS IT IS BEING LAID, BY THE CONTRACTOR, IN THE INDICATED LOCATIONS. MARKS SHALL BE SUPPLIED BY THE PROJECT SURVEYOR.
  - SURVEY MARKS SHOWN THUS SHALL BE RETAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT MUST BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
- TREES TO BE RETAINED ON SITE SHALL BE PROTECTED BY SUITABLE STURDY APPROVED PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF SITE WORKS.
- THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES OUT-HOUSES, CAR BODIES AND DEBRIS ETC.
- PUBLIC RESERVE AREAS SHALL BE CLEARED OF UNDERGROWTH, IMPROVEMENTS AND FENCES AS DIRECTED BY THE ENGINEER.
- FILLING IS TO BE FROM A NOMINATED SOURCE, OF SOUND CLEAN MATERIAL, FREE FROM LARGE ROCK, STUMPS, CONTAMINATED MATTER, INDUSTRIAL AND BUILDING WASTE, ORGANIC MATTER AND OTHER DEBRIS. PLACING OF FILLING ON THE PREPARED AREAS SHALL NOT COMMENCE UNTIL THE AUTHORITY TO DO SO HAS BEEN OBTAINED FROM THE COUNCIL.
- SITE FILL AREAS - THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
- ALL SITE FILLING TO BE COMPACTED TO 95% STANDARD COMPACTION AND SHALL BE CONTROLLED BY A REGISTERED SOIL LABORATORY IN ACCORDANCE WITH COUNCIL'S "WORKS SPECIFICATION".
- ALL SITE REGRADING AREAS SHALL BE GRADED AT A MINIMUM 1% TO THE ENGINEERS REQUIREMENTS.
- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT.
- ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- DIMENSIONS OF ANY DETAIL SHALL NOT BE SCALED - DIMENSIONS, IF IN DOUBT, SHALL BE VERIFIED BY THE SUPERINTENDENT.
- ALL CONSTRUCTION AND RESTORATION WORK ON COUNCIL'S ROAD AND FOOTPATH AREA ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND COUNCIL'S STANDARD SPECIFICATIONS.
- FOR SETOUT PURPOSES CONTACT J. WYNDHAM PRINCE FOR ELECTRONIC DATA FILE.

### SURVEY SET OUT INFORMATION NOTES:

- ALL SITE SET OUT AND CONTROL POINTS ARE TO MGA COORDINATES AND AHD.
- THE INFORMATION DETAILED ON THE CERTIFIED CONSTRUCTION CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ASSOCIATED ELECTRONIC FILES PROVIDED. THE ORDER OF PRIORITY FOR USE OF CONSTRUCTION CERTIFICATE PLANS & ASSOCIATED ELECTRONIC FILES PROVIDED IS AS FOLLOWS:
  - CERTIFIED CONSTRUCTION CERTIFICATE DRAWINGS
  - 2D DRAFTING BASE (ELECTRONIC FILE)
  - 3D DTM (ELECTRONIC FILE) IF PROVIDED
- ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.

### STORMWATER NOTES

- STORMWATER DESIGN CRITERIA:
  - 1:100 MAJOR SYSTEM
  - 1:10 MINOR SYSTEM
- PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- ALL GRATES LOCATED IN THE CAR PARK OR TRAFFICABLE AREAS ARE TO BE FITTED WITH CLASS D LIDS. ALL OTHER AREAS ARE TO BE CLASS B.
- PITS DEEPER THAN 1.2m ARE TO BE FITTED WITH COUNCIL APPROVED STEP IRONS.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- DRAINAGE LINES UNDER ROADS SHALL BE BACKFILLED WITH NON-COHESIVE SAND AND HAVE 3m OF SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK, DISCHARGING INTO DOWN STREAM PITS.
- ALL STORMWATER PIPES WITHIN ROADS TO BE REINFORCED CONCRETE PIPE (RRJ) CLASS 2.
- ALL INTERALLOTMENT DRAINAGE LINES SHALL BE LAID AT A MINIMUM GRADE OF 1% UNLESS OTHERWISE INDICATED.
- DRAINAGE LINES ON PLANS ARE DIAGRAMMATIC ONLY AND PIPE CENTRELINES SHALL ENTER AND EXIT PITS AT THE CENTRE OF THE RESPECTIVE PIT WALLS.

CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
934315/CC20	COVER SHEET	A
934315/CC21	GENERAL NOTES, INDEX AND LEGEND	A
934315/CC22	KEY PLAN AND SITE SECTIONS	A
934315/CC23	ENGINEERING PLAN SHEET 1	A
934315/CC24	ENGINEERING PLAN SHEET 2	A
934315/CC25	DETAILED CAR PARK PLAN	A
934315/CC26	CARPARK SETOUT LONG SECTIONS	A
934315/CC27	SITE SECTIONS SHEET 1	A
934315/CC28	SITE SECTIONS SHEET 2	A
934315/CC29	STORMWATER CATCHMENT PLAN	A
934315/CC30	STORMWATER LONG SECTIONS (1:10YR ARI) SHEET 1	A
934315/CC31	STORMWATER LONG SECTIONS (1:10YR ARI) SHEET 2	A
934315/CC32	STORMWATER LONG SECTIONS (1:10YR ARI) SHEET 3	A
934315/CC33	STORMWATER PIT SCHEDULE AND CALCULATION TABLES	A
934315/CC34	TURNING PATH PLAN	A
934315/CC35	SOIL AND WATER MANAGEMENT DETAIL PLAN	A



**WARNING!**  
UNDERGROUND SERVICE CABLES IN VICINITY. EXERCISE EXTREME CAUTION DURING EXCAVATION. CONTACT "DIAL BEFORE YOU DIG" PRIOR TO ANY CONSTRUCTION WORK

UTILITIES SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS. NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES AFFECTED AREAS

 CLIENT:	<b>ISSUED FOR CONSTRUCTION APPROVAL</b>	
	JORDAN SPRINGS VILLAGE OVAL GENERAL NOTES, INDEX AND LEGEND	PLAN No: <b>934315/CC21</b> <b>A</b> FILE No: 934315CC21 SHEET SIZE: A1 ORIGINAL

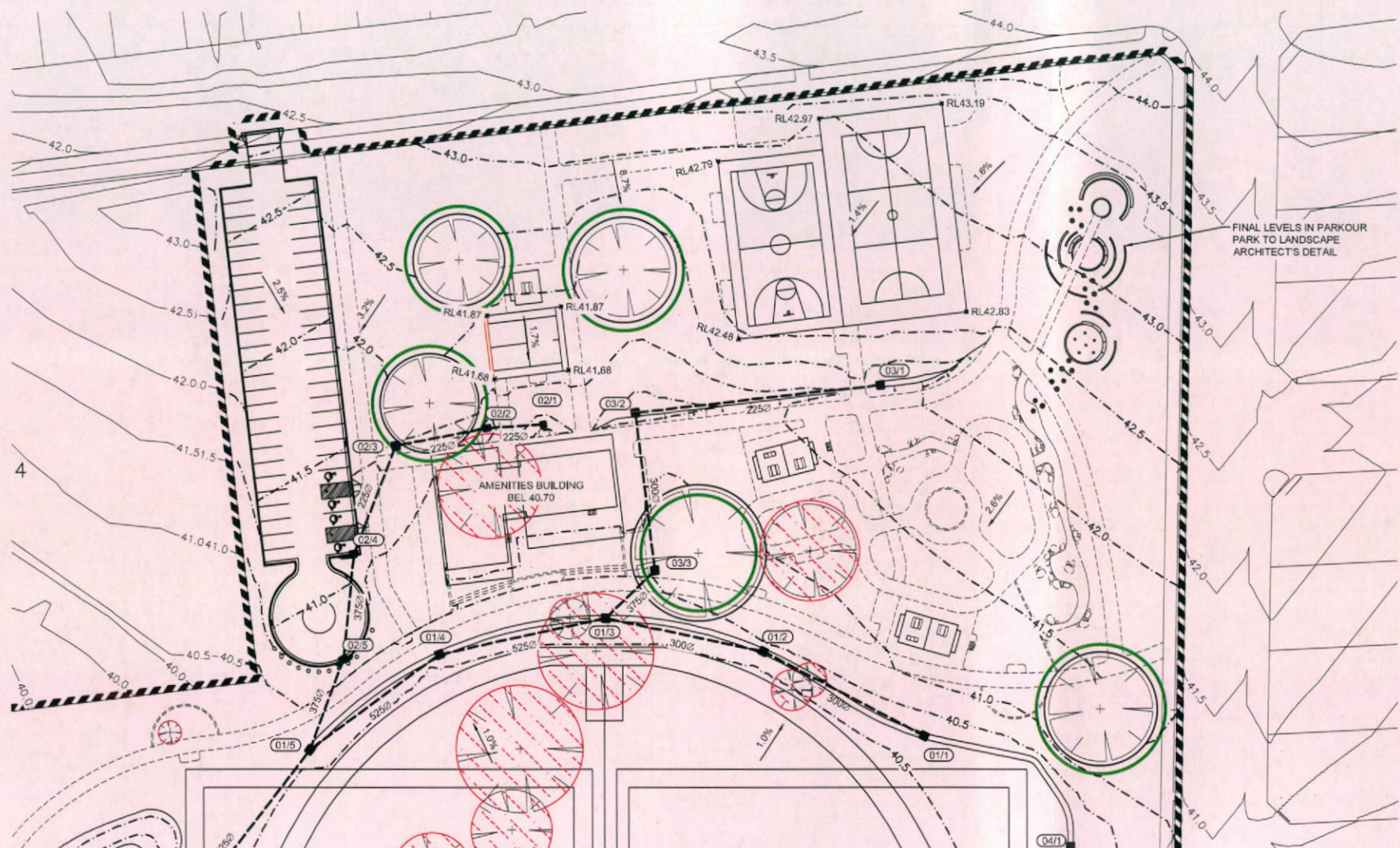
**J. WYNDHAM PRINCE** CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

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:

NO.	DESCRIPTION	PAS	PAS	AM	PI	15/10/14
A	ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL					
	AMENDMENT	DES	DRN	CKD	APR	DATE





REFER TO DRAWING 934315/CC24 FOR CONTINUATION

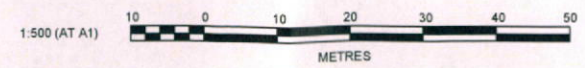
**EARTHWORKS NOTES:**

BULK EARTHWORKS ACROSS THE VILLAGE OVAL SITE AND INCLUDING THE STORMWATER DRAINAGE CHANNEL ARE PROGRAMMED TO OCCUR PRIOR TO THE WORKS DOCUMENTED IN THIS DRAWING SET. REFER TO JWP DRAWINGS 934315/CC01 TO 934315/CC05 FOR DETAILS.

WAE SURVEY IS TO BE CARRIED OUT AT THE COMPLETION OF THE BULK EARTHWORKS AND MINOR ADJUSTMENTS MADE AS REQUIRED TO MATCH THE FINAL LEVELS DOCUMENTED IN THIS DRAWING SET.

**GENERAL NOTES:**

- ALL FOOTPATHS, RETAINING WALLS AND FEATURE WALLS ARE TO THE LANDSCAPE ARCHITECT'S DETAIL AND SPECIFICATION.
- REFER TO SHEET 934315/CC25 FOR DETAILED CARPARK PLAN
- PLAYING FIELD SURFACE MEDIA AND SUB SOIL DRAINAGE ARE BY ACOR.



CLIENT:

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

**ISSUED FOR CONSTRUCTION APPROVAL**

JORDAN SPRINGS VILLAGE OVAL  
ENGINEERING PLAN  
SHEET 1

PLAN No: 934315/CC23 **A**

FILE No: 934315CC23

SHEET SIZE: A1 ORIGINAL

**J. WYNDHAM PRINCE** CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

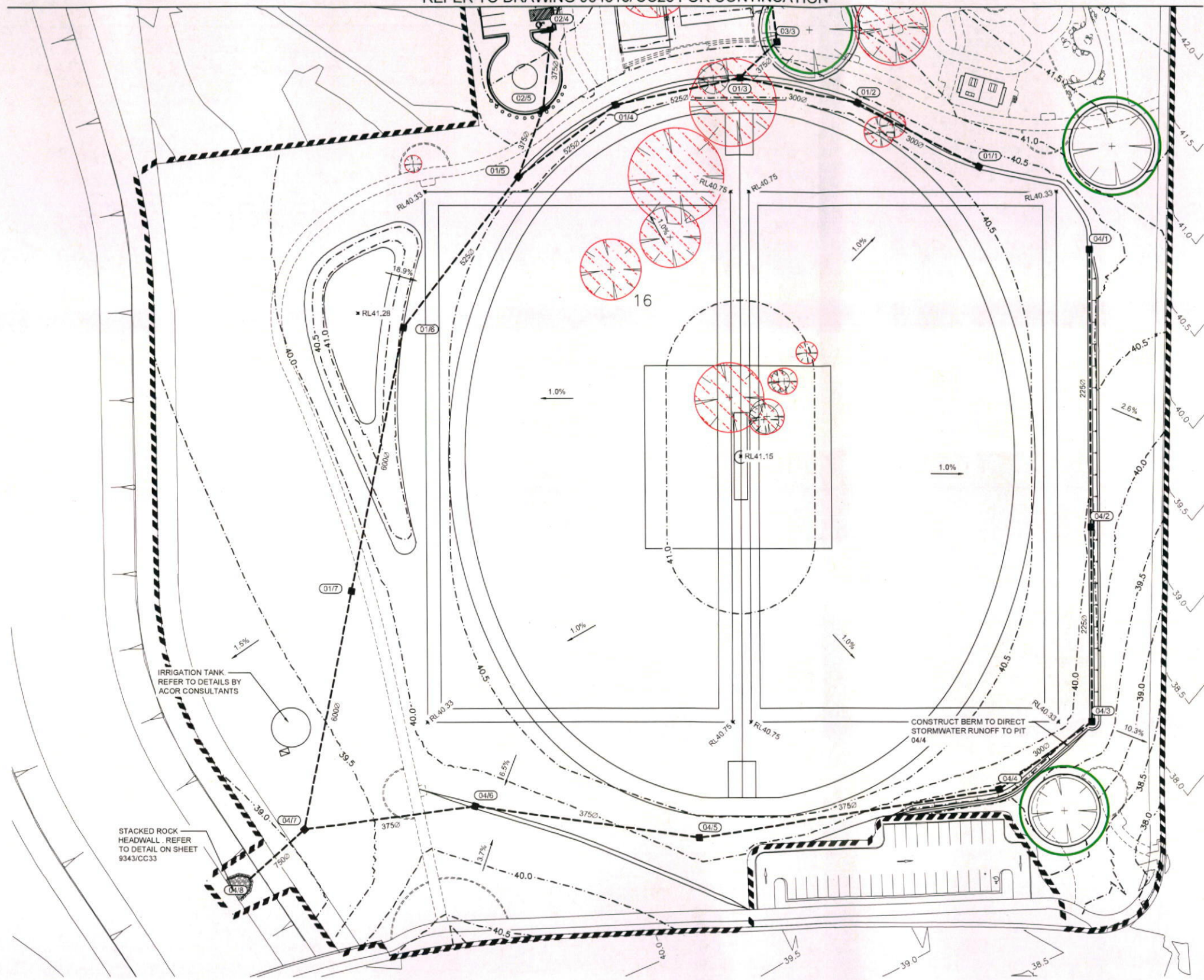
PO Box 4366 PERLITH WESTFIELD NSW 2750  
P 02 4720 3300 F 02 4721 7638 W www.jwprince.com.au E jwp@jwprince.com.au

AZIMUTH: MGA  
DATUM: AHD  
ORIGIN:

Plotted: 15 October, 2014 12:16:02 PM File Name: J:\934315\DRAWING\OVAL\PK15/CC - Construction Certificate Approval Plans\934315CC23.dwg

NO.	DESCRIPTION	DES	DRN	AM	PI	DATE
A	ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL	PAS	PAS	AM	PI	15/10/14
	AMENDMENT	DES	DRN	CKD	APR	DATE

REFER TO DRAWING 934315/CC23 FOR CONTINUATION



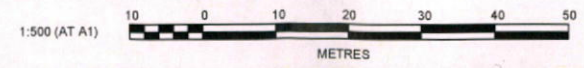
**EARTHWORKS NOTES:**

BULK EARTHWORKS ACROSS THE VILLAGE OVAL SITE AND INCLUDING THE STORMWATER DRAINAGE CHANNEL ARE PROGRAMMED TO OCCUR PRIOR TO THE WORKS DOCUMENTED IN THIS DRAWING SET. REFER TO JWP DRAWINGS 934315/CC01 TO 934315/CC05 FOR DETAILS.

WAE SURVEY IS TO BE CARRIED OUT AT THE COMPLETION OF THE BULK EARTHWORKS AND MINOR ADJUSTMENTS MADE AS REQUIRED TO MATCH THE FINAL LEVELS DOCUMENTED IN THIS DRAWING SET.

**GENERAL NOTES:**

- ALL FOOTPATHS, RETAINING WALLS AD FEATURE WALLS ARE TO THE LANDSCAPE ARCHITECT'S DETAIL AND SPECIFICATION.
- REFER TO SHEET 934315/CC25 FOR DETAILED CARPARK PLAN
- PLAYING FIELD SURFACE MEDIA AND SUB SOIL DRAINAGE ARE BY ACOR.



**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:

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

**ISSUED FOR CONSTRUCTION APPROVAL**

JORDAN SPRINGS VILLAGE OVAL  
 ENGINEERING PLAN  
 SHEET 2

PLAN No: 934315/CC24 **A**  
 FILE No: 934315CC24  
 SHEET SIZE: A1 ORIGINAL

Printed: 15 October 2014 12:16:17 PM File Name: J:\934315\DRAWING\Approval Plans\934315CC24.dwg

NO.	DESCRIPTION	PAS	PAS	AM	PI	15/10/14
A	ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL	DES	DRN	CKD	APR	DATE
	AMENDMENT					

**SETOUT 1**

CHAINAGE	EASTING	NORTHING	BEARING
0.00	289608.53	6266254.65	173°13'26.75"
9.20	289609.62	6266245.52	
14.15	289614.53	6266246.10	
76.70	289622.15	6266182.00	
84.10	289616.79	6266181.37	263°13'26.86"

**SETOUT 2**

CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPRAL	A LENGTH	D ANGLE
0.00	289616.79	6266181.37	173°13'25.52"			
1.10	289616.82	6266180.27	173°13'25.52"			
2.43	289617.09	6266176.81		-2.45	2.659	62°10'50.64"
3.76	289618.47	6266178.28	111°02'34.88"			
10.89	289627.66	6266174.74		8.05	14.254	101°27'15.18"
18.01	289622.37	6266166.44	212°29'50.06"			
25.14	289617.08	6266158.14		8.05	14.254	101°27'15.18"
32.27	289609.99	6266164.97	313°57'05.24"			
39.39	289602.90	6266171.80		8.05	14.254	101°27'15.18"
46.52	289611.01	6266177.39	55°24'20.42"			
47.85	289612.22	6266178.23		-2.45	2.659	62°10'29.16"
49.18	289612.05	6266179.70	353°13'51.27"			
50.28	289611.92	6266180.79	353°13'51.27"			

**SETOUT 3**

CHAINAGE	EASTING	NORTHING	BEARING
0.00	289611.92	6266180.79	263°13'23.66"
5.85	289606.11	6266180.10	
70.40	289598.50	6266244.20	
75.80	289603.86	6266244.83	
85.00	289602.77	6266253.97	353°13'26.83"

**PAVEMENT DESIGN - CAR PARK**  
 50mm MINIMUM THICKNESS (AC10)  
 SINGLE COAT HOT FLUSH SEAL  
 140mm COMPACTED THICKNESS NATURAL DGB20 BASE COURSE  
 150mm COMPACTED THICKNESS 75mm CRUSHED SANDSTONE SUB-BASE COARSE

GEOTECH PAVEMENT THICKNESS FROM PAVEMENT THICKNESS REPORT BY GEOTECH TESTING DATED 17 DECEMBER 2012

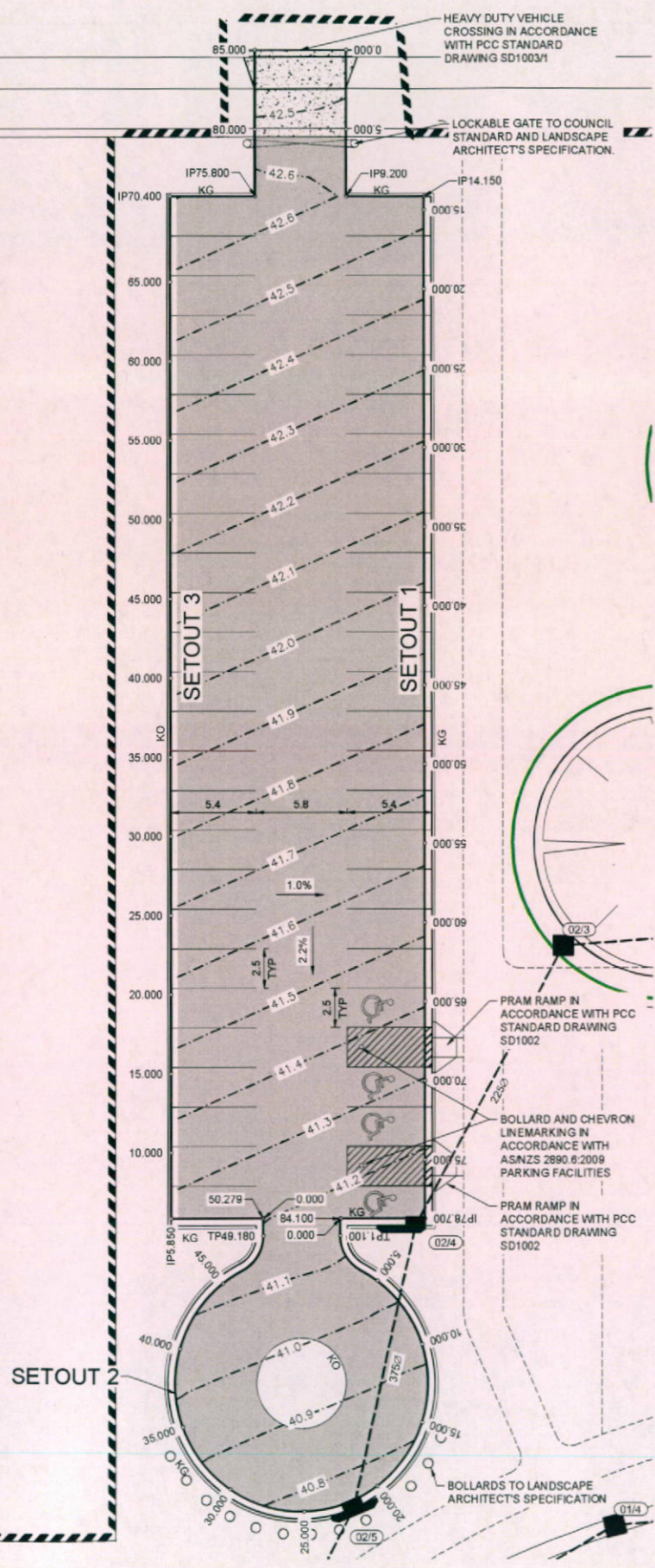
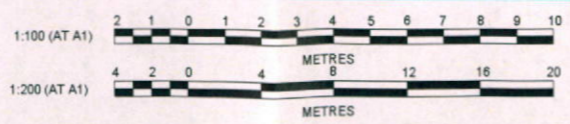
**PAVEMENT DESIGN - HEAVY DUTY VEHICLE CROSSING**  
 150mm THICK 25MPa CONCRETE WITH ONE TOP LAYER SL82 WITH 40mm COVER  
 50mm COMPACTED THICKNESS NATURAL DGB20 BASE COURSE  
 150mm CRUSHED SANDSTONE SUB-BASE COARSE

DATUM 34.0

CHAINAGE	DESIGN LINE GRADING	EXISTING SURFACE
0.000	42.408	42.408
0.450	42.368	42.368
0.950	42.531	42.468
5.000	42.744	42.530
9.200	43.181	42.595
10.000	43.191	42.587
14.150	43.218	42.546
15.000	43.310	42.526
20.000	43.258	42.415
25.000	43.025	42.303
30.000	42.793	42.191
35.000	42.562	42.079
40.000	42.392	41.967
45.000	42.221	41.855
50.000	42.050	41.743
55.000	41.836	41.631
60.000	41.621	41.519
65.000	41.410	41.408
70.000	41.211	41.296
75.000	41.071	41.184
78.700	40.938	41.101
80.000	40.904	41.114
84.100	40.815	41.155

**LONGITUDINAL SECTION SETOUT 1**  
 HORIZONTAL SCALE 1:200  
 VERTICAL SCALE 1:100

- NOTES:**
- ALL FOOTPATHS, RETAINING WALLS AND FEATURE WALLS ARE TO THE LANDSCAPE ARCHITECT'S DETAIL AND SPECIFICATION.
  - BOLLARDS ARE TO BE CONSTRUCTED TO THE LANDSCAPE ARCHITECT'S SPECIFICATION AND ARE NOT TO BE LOCATED WITHIN THE TURNING PATH AREA SHOWN ON DRAWING 934315/CC34



**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

CLIENT: **Lend Lease**

AZIMUTH: MGA  
 DATUM: AHD  
 ORIGIN:

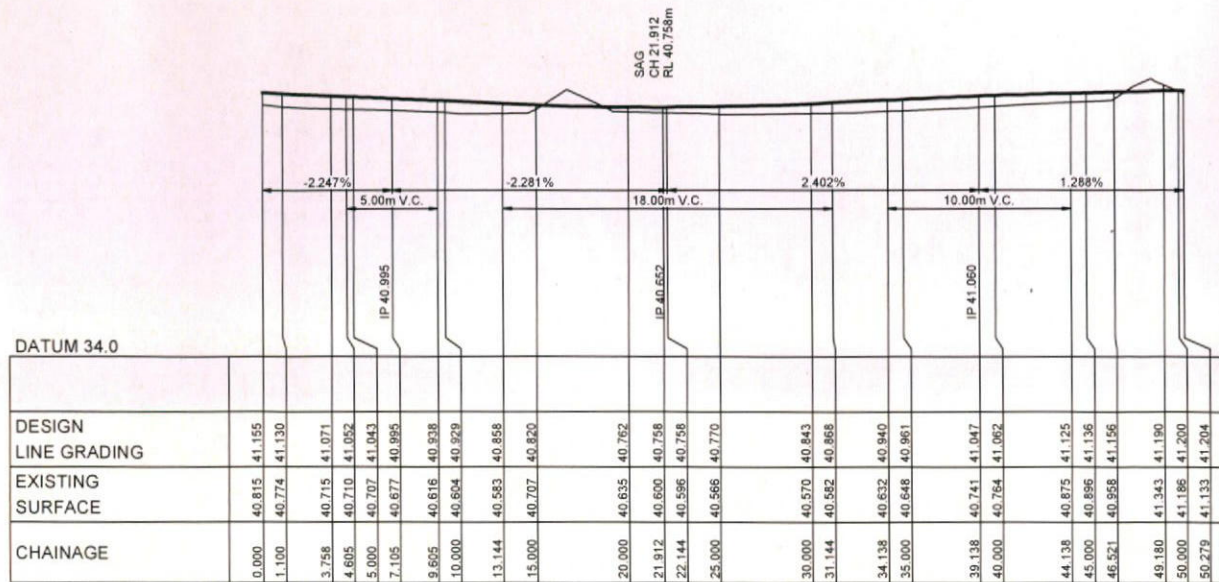
**ISSUED FOR CONSTRUCTION APPROVAL**

JORDAN SPRINGS VILLAGE OVAL  
 DETAILED CAR PARK PLAN

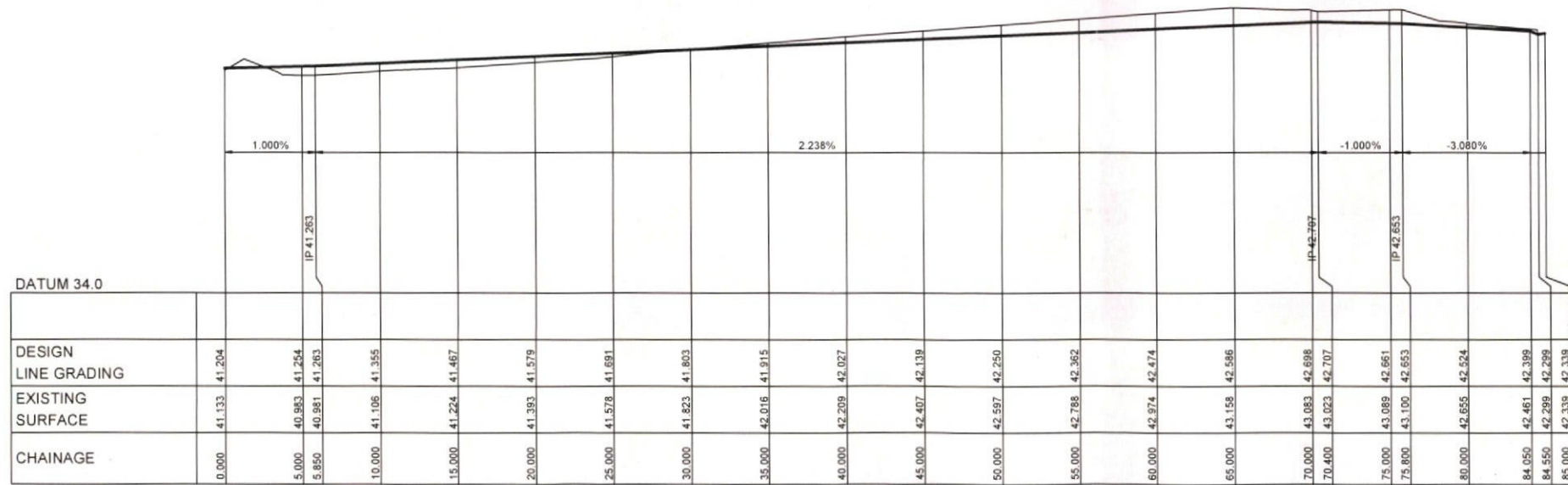
PLAN No: 934315/CC25 **A**  
 FILE No: 934315CC25  
 SHEET SIZE: A1 ORIGINAL

Plotted: 15 October, 2014 12:16:36 PM File Name: J:\934315\DRAWING\OVAL\_PARKING - Construction Certificate Approval\Plan\934315CC25.dwg

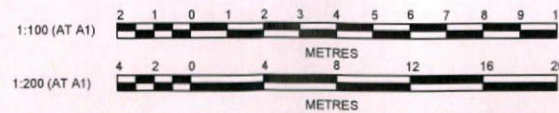
Plotted: 15 October, 2014 12:16:46 PM File Name: J:\9343DIV\VILLAGE OVAL PK1515CC - Construction Certificate Approval Plans\934315CC26.dwg



LONGITUDINAL SECTION SETOUT 2  
HORIZONTAL SCALE 1:200  
VERTICAL SCALE 1:100



LONGITUDINAL SECTION SETOUT 3  
HORIZONTAL SCALE 1:200  
VERTICAL SCALE 1:100



**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:

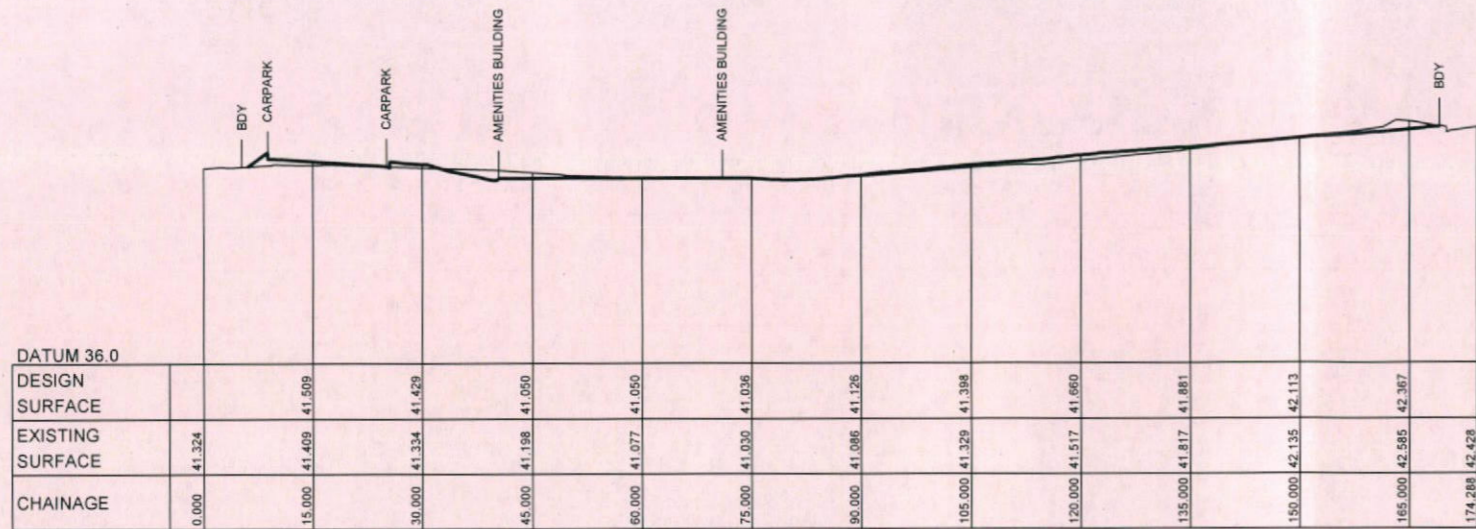
THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE

**ISSUED FOR CONSTRUCTION APPROVAL**

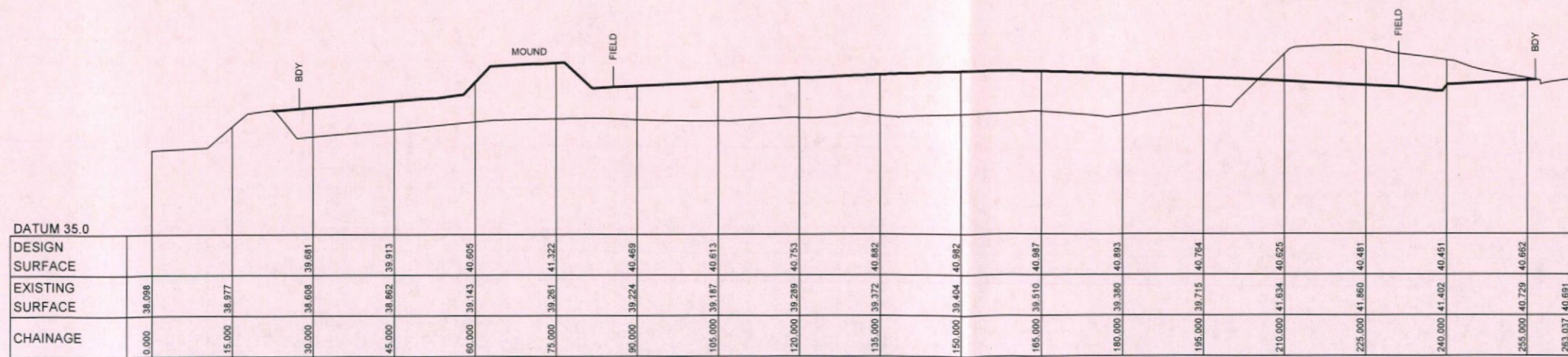
JORDAN SPRINGS VILLAGE OVAL  
CARPARK SETOUT  
LONG SECTIONS

PLAN No: 934315/CC26 **A**  
FILE No: 934315CC26  
SHEET SIZE: A1 ORIGINAL

Plotted: 15 October, 2014 12:16:56 PM File Name: J:\9343\DVILLAGE OVAL PK15CC - Construction Certificate Approval Plans\934315CC27.dwg



SECTION 2  
SCALE H 1:500  
V 1:100  
CC22



SECTION 1  
SCALE H 1:500  
V 1:100  
CC22

NOTE:  
THE EXISTING SURFACE SHOWN IS INDICATIVE ONLY. BULK EARTHWORKS ARE PROGRAMMED FOR CONSTRUCTION PRIOR TO THE WORKS DOCUMENTATION THIS SET AS SHOWN IN THE JWP DRAWINGS 9343/15CC01 TO 9343/15CC05. A WAE SURVEY IS TO BE CARRIED OUT AT THE COMPLETION OF THE BULK EARTHWORKS CONSTRUCTION AND MINOR ADJUSTMENTS MADE AS REQUIRED TO MATCH THE DESIGN LEVELS SHOWN IN THIS SET OF PLANS



ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL	PAS	PAS	AM	PI	15/10/14
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:  
  
 THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS SIGNED AS PART OF AN APPROVED CONSTRUCTION CERTIFICATE.

**ISSUED FOR CONSTRUCTION APPROVAL**

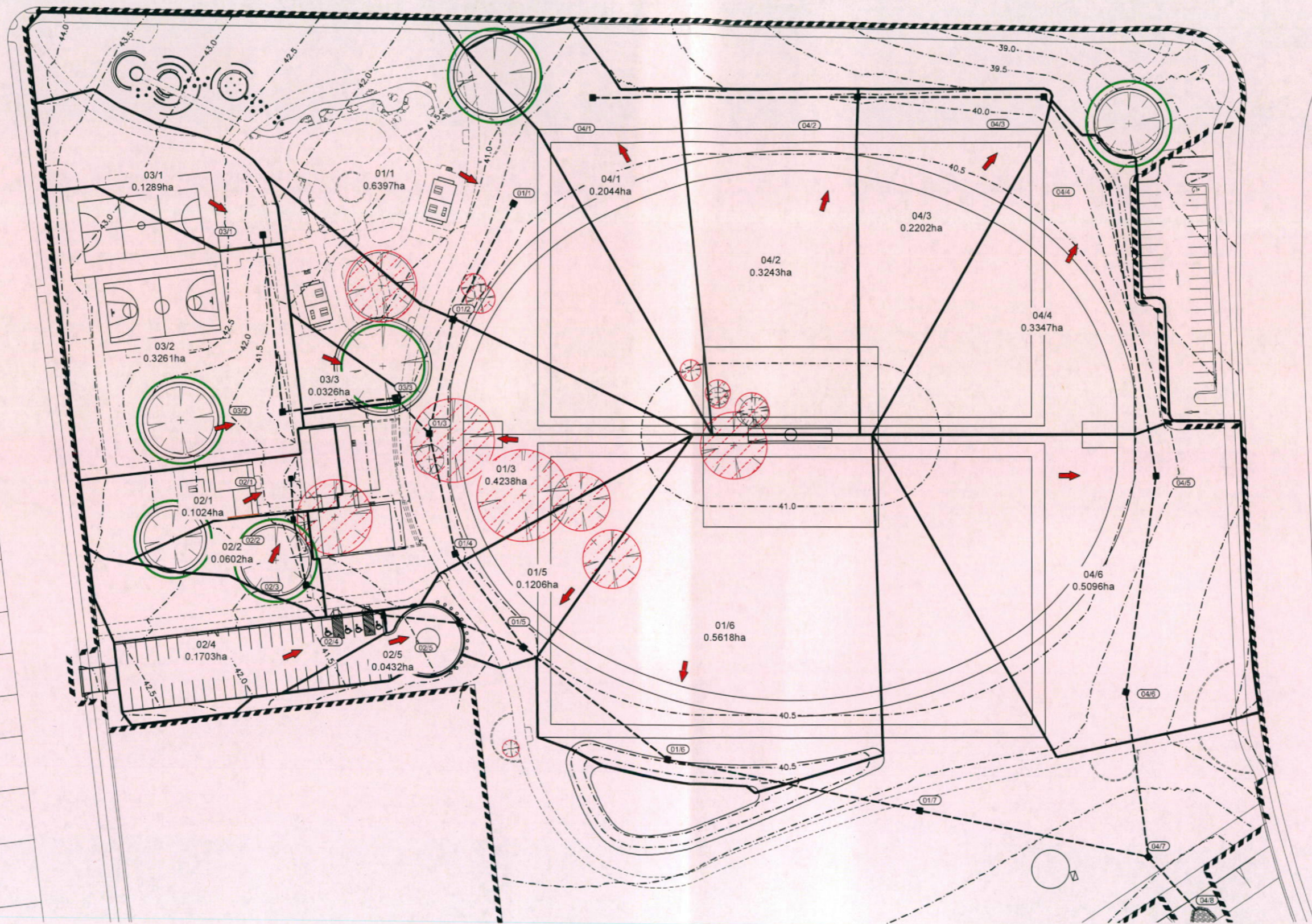
JORDAN SPRINGS  
 VILLAGE OVAL  
 SITE SECTIONS  
 SHEET 1

PLAN No: 934315/CC27 **A**  
 FILE No: 934315CC27  
 SHEET SIZE: A1 ORIGINAL





Plotted: 15 October, 2014 12:17:18 PM File Name: J:\934315\WILLAGE OVAL PK15CC - Construction Certificate Approval Plans\934315CC29.dwg



**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:

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

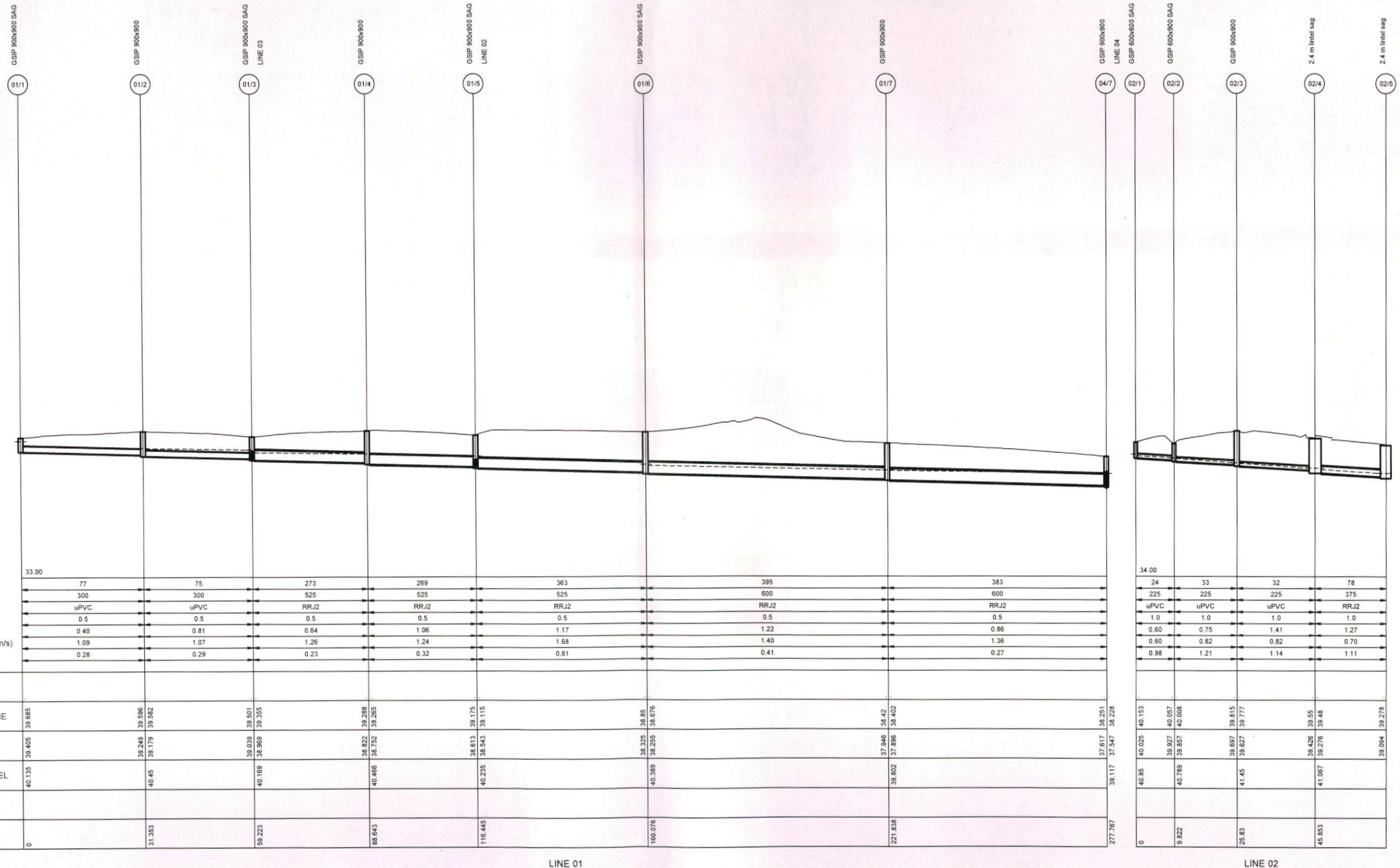
**ISSUED FOR CONSTRUCTION APPROVAL**

JORDAN SPRINGS VILLAGE OVAL  
 STORMWATER CATCHMENT PLAN

PLAN No: 934315/CC29 **A**  
 FILE No: 934315CC29  
 SHEET SIZE: A1 ORIGINAL

	PAS	PAS	AM	PI	15/10/14
A	DES	DRN	CKD	APR	DATE
ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL AMENDMENT					

Plotted: 15 October, 2014 12:17:29 PM File Name: J:\9343\DIV\VILLAGE OVAL PK1515C - Construction Certificate Approval Plans\934315CC30.dwg

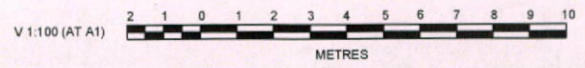


DATUM (m)	33.00
PEAK FLOW (L/s)	77
PIPE SIZE (mm)	300
PIPE CLASS	uPVC
PIPE GRADE (%)	0.5
PIPE COVER MINIMUM	0.40
FULL PIPE VELOCITY (m/s)	1.09
HGL GRADE (%)	0.28

WAE	
HYDRAULIC GRADE LINE	39.685
INVERT LEVEL	39.405
DESIGN SURFACE LEVEL	40.135
ROAD CHAINAGE	
PIPE CHAINAGE	0

DATUM (m)	34.00
PEAK FLOW (L/s)	24
PIPE SIZE (mm)	225
PIPE CLASS	uPVC
PIPE GRADE (%)	1.0
PIPE COVER MINIMUM	0.60
FULL PIPE VELOCITY (m/s)	0.60
HGL GRADE (%)	0.98

WAE	
HYDRAULIC GRADE LINE	40.153
INVERT LEVEL	40.025
DESIGN SURFACE LEVEL	40.85
ROAD CHAINAGE	
PIPE CHAINAGE	0



LINE 01

LINE 02

ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL	PAS	PAS	AM	PI	15/10/14
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:

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

**ISSUED FOR CONSTRUCTION APPROVAL**

JORDAN SPRINGS VILLAGE OVAL  
 STORMWATER LONG SECTIONS (1:10YR ARI)  
 SHEET 1

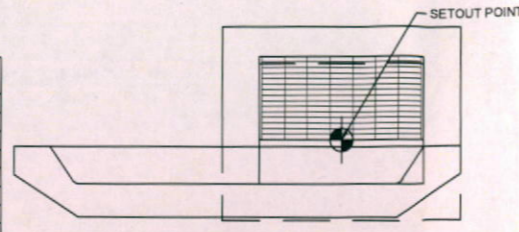
PLAN No: 934315/CC30 **A**  
 FILE No: 934315CC30  
 SHEET SIZE: A1 ORIGINAL



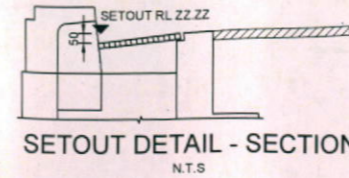


**PIT SCHEDULE**

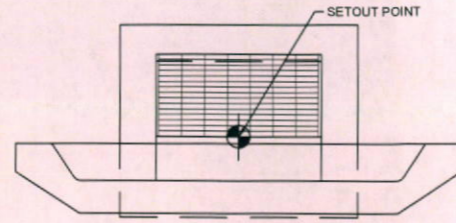
PIT NAME	PIT TYPE	PIT EASTING	PIT NORTHING	PIT DEPTH	COMMENTS
(-)	(-)	(m)	(m)	(m)	
01/1	GSIP 900x900 SAG	289720.191	6266150.243	0.73	
01/2	GSIP 900x900	289692.412	6266164.781	1.271	
01/3	GSIP 900x900 SAG	289665.132	6266170.484	1.2	
01/4	GSIP 900x900	289636.379	6266164.254	1.714	
01/5	GSIP 900x900 SAG	289613.952	6266147.824	1.692	
01/6	GSIP 900x900 SAG	289587.321	6266113.263	2.134	
01/7	GSIP 900x900	289575.025	6266052.737	1.905	
02/1	GSIP 600x600 SAG	289654.357	6266203.78	0.825	
02/2	GSIP 600x900 SAG	289644.552	6266203.196	0.932	
02/3	GSIP 900x900	289628.836	6266200.157	1.823	
02/4	2.4 m lintel sag	289621.606	6266181.485	1.791	
02/5	2.4 m lintel sag	289619.796	6266163.384	1.693	
03/1	GSIP 900x900 SAG	289712.646	6266210.605	0.895	
03/2	GSIP 900x900 SAG	289670.282	6266205.816	1.055	
03/3	GSIP 900x900 SAG	289673.67	6266178.702	1.215	
04/1	GSIP 900x900 SAG	289745.532	6266131.171	0.706	
04/2	GSIP 900x900 SAG	289745.635	6266067.468	0.871	
04/3	GSIP 900x900 SAG	289745.708	6266022.594	0.816	
04/4	GSIP 900x900 SAG	289724.258	6266006.999	0.78	
04/5	GSIP 900x900	289654.993	6265995.863	2.101	
04/6	GSIP 900x900 SAG	289603.264	6266003.252	1.683	
04/7	GSIP 900x900	289563.89	6265997.928	1.57	
04/8	H.W.	289550.992	6265986.353	0.75	STACKED ROCK HEADWALL



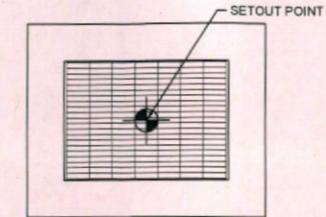
SETOUT DETAIL KERB INLET PIT (LINTEL)



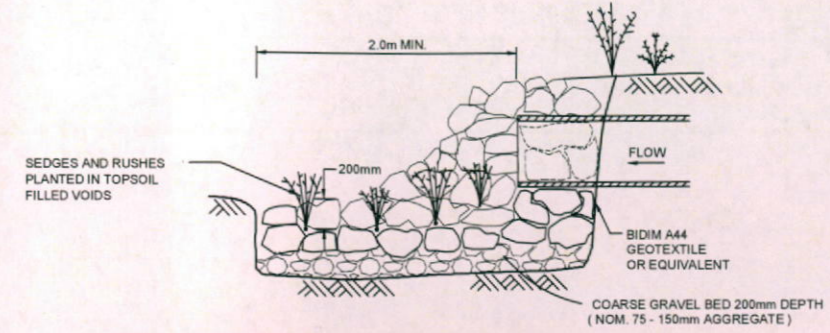
SETOUT DETAIL - SECTION N.T.S



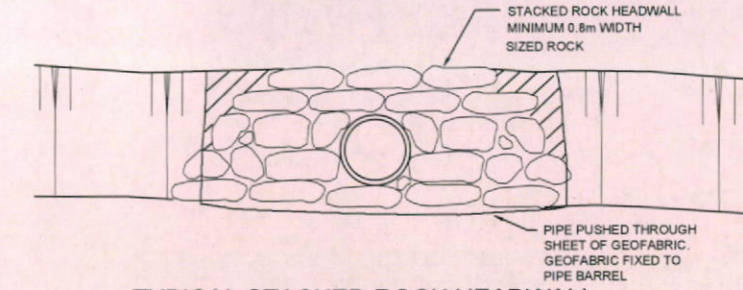
SETOUT DETAIL KERB INLET PIT (SAG)



GRATED SURFACE INLET PIT (GSIP)



TYPICAL STACKED ROCK HEADWALL TREATMENT SECTION N.T.S



TYPICAL STACKED ROCK HEADWALL TREATMENT ELEVATION N.T.S

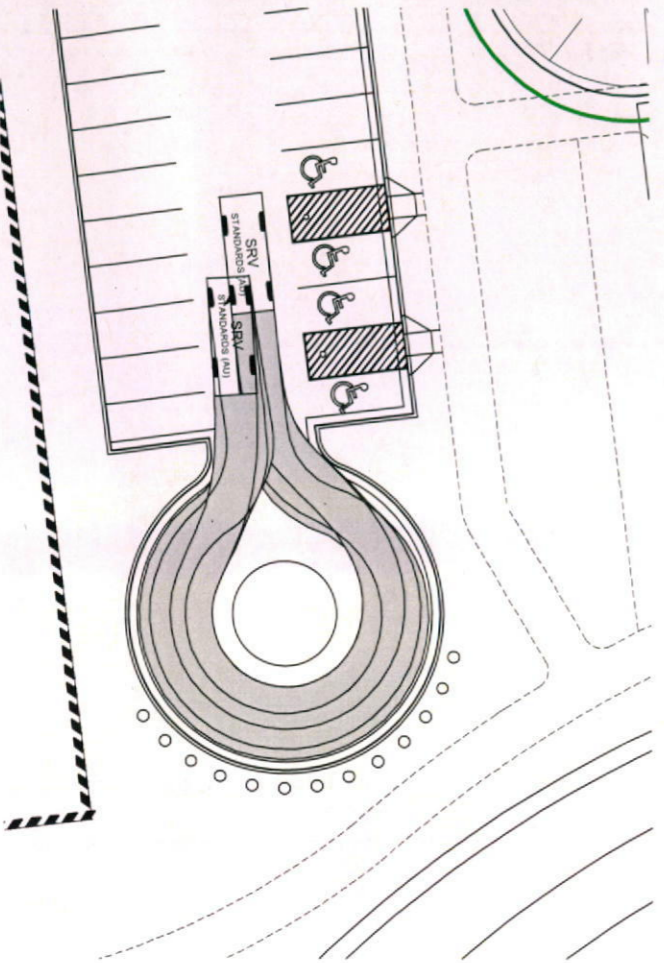
**DESIGN STORM 1:10yr ARI HYDROLOGIC RESULTS**

PIT NAME	PIT TYPE	CATCHMENT AREA	IMPERVIOUS PERCENTAGE	RUNOFF C	IMPERVIOUS TIME Tc	IMPERVIOUS INTENSITY I	PERVIOUS TIME Tc	PERVIOUS INTENSITY I	FULL AREA TIME Tc	FULL AREA INTENSITY I	FULL AREA CATCHMENT FLOW Qc	PARTIAL AREA TIME Tc	PARTIAL AREA INTENSITY I	PARTIAL AREA CATCHMENT FLOW Qc	TOTAL CATCHMENT FLOW Qc	DIRECT FLOW Qd	APPROACH FLOW Qa	FLOODED DEPTH d	FLOODED WIDTH w	FLOODED (vx/d)	ROAD GRADE (%)	ROAD XFALL (%)	CHOKO FACTOR (-)	INLET FLOW Qg	BYPASS FLOW Qb	BYPASS PIT (-)	COMMENTS	
(-)	(-)	(ha)	(%)	(-)	(min)	(mm/hr)	(min)	(mm/hr)	(min)	(mm/hr)	(L/s)	(min)	(mm/hr)	(L/s)	(L/s)	(L/s)	(L/s)	(m)	(m)	(sq.m/s)	(%)	(%)	(-)	(L/s)	(L/s)	(-)		
01/1	GSIP 900x900 SAG	0.54	25	0.49	6	134.2	16	88.1	16	88.1	76	6	134.2	77	77	0	77	0.05			1	1	1	77	0	0	34/1	
01/2	GSIP 900x900	0	0	0	6	134.2	6	134.2	6	134.2	9	6	134.2	9	9	0	9	0.01			-1	-1	1	9	0	0	01/1	
01/3	GSIP 900x900 SAG	0.424	50	0.63	6	134.2	6	134.2	6	134.2	99	6	134.2	99	99	0	99	0.06			1	1	1	99	0	0	01/4	
01/4	GSIP 900x900	0	0	0	6	134.2	6	134.2	6	134.2	0	6	134.2	0	0	0	0	0			1	1	1	0	0	0	01/5	
01/5	GSIP 900x900 SAG	0.121	10	0.40	6	134.2	15	90.8	15	90.8	12	6	134.2	12	12	0	12	0.02			1	1	1	12	0	0	LOST	
01/6	GSIP 900x900 SAG	0.562	10	0.40	6	134.2	20	79.3	20	79.3	50	6	134.2	39	50	0	50	0.04			1	1	1	50	0	0	LOST	
01/7	GSIP 900x900	0	0	0	6	134.2	6	134.2	6	134.2	0	6	134.2	0	0	0	0	0					1	0	0	0	LOST	
02/1	GSIP 600x600 SAG	0.102	50	0.83	6	134.2	6	134.2	6	134.2	24	6	134.2	24	24	0	24	0.03				1	1	1	24	0	0	03/2
02/2	GSIP 600x900 SAG	0.06	10	0.40	6	134.2	6	134.2	6	134.2	9	6	134.2	9	9	0	9	0.01				1	1	1	9	0	0	02/1
02/3	GSIP 900x900	0	0	0	6	134.2	6	134.2	6	134.2	0	6	134.2	0	0	0	0	0					1	0	0	0	01/3	
02/4	2.4 m lintel sag	0.17	70	0.74	6	134.2	6	134.2	6	134.2	47	6	134.2	47	47	0	47	0.05			2.2	-11.2	1	47	0	0	02/5	
02/5	2.4 m lintel sag	0.043	95	0.87	6	134.2	6	134.2	6	134.2	14	6	134.2	14	14	0	14	0.03				2.5	1	14	0	0	01/5	
03/1	GSIP 900x900 SAG	0.129	40	0.57	6	134.2	6	134.2	6	134.2	27	6	134.2	27	27	0	27	0.03				25	1	27	0	0	03/2	
03/2	GSIP 900x900 SAG	0.326	50	0.63	6	134.2	6	134.2	6	134.2	76	6	134.2	76	76	0	76	0.05				25	1	76	0	0	03/3	
03/3	GSIP 900x900 SAG	0.033	10	0.40	6	134.2	6	134.2	6	134.2	5	6	134.2	5	5	0	5	0.01				-7.2	1	5	0	0	01/3	
04/1	GSIP 900x900 SAG	0.204	10	0.40	6	134.2	20	79.3	20	79.3	18	6	134.2	18	18	0	18	0.02				1	1	1	18	0	0	LOST
04/2	GSIP 900x900 SAG	0.324	10	0.40	6	134.2	17	86.2	17	86.2	31	6	134.2	24	31	0	31	0.03				3	1	31	0	0	04/3	
04/3	GSIP 900x900 SAG	0.22	10	0.40	6	134.2	18	84.3	18	84.3	21	6	134.2	16	21	0	21	0.02				1	1	21	0	0	LOST	
04/4	GSIP 900x900 SAG	0.335	10	0.40	6	134.2	14	93.7	14	93.7	35	6	134.2	28	35	0	35	0.03			0.2	24.9	1	35	0	0	LOST	
04/5	GSIP 900x900	0	0	0	6	134.2	6	134.2	6	134.2	0	6	134.2	0	0	0	0	0					1	0	0	0	04/6	
04/6	GSIP 900x900 SAG	0.51	10	0.40	6	134.2	16	89.2	16	89.2	51	6	134.2	40	51	0	51	0.04					1	51	0	0	LOST	
04/7	GSIP 900x900	0	0	0	6	134.2	6	134.2	6	134.2	0	6	134.2	0	0	0	0	0					1	0	0	0	LOST	
04/8	H.W.																											STACKED ROCK HEADWALL

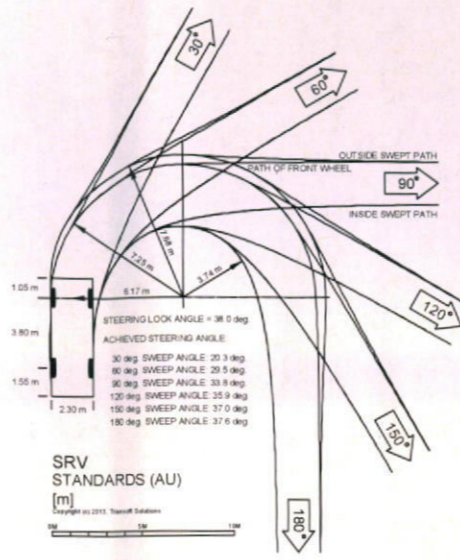
**DESIGN STORM 1:10yr ARI HYDRAULIC RESULTS**

PIPE NAME	PIPE TYPE	PIPE DIAMETER	PIPE LENGTH	PIPE SLOPE	PIPE AREA A1	FULL AREA TIME Tc	FULL AREA INTENSITY I	FULL AREA SUM CA	FULL AREA FLOW Qc	PART-AREA TIME Tc	PART-AREA INTENSITY I	PART-AREA SUM CA	PART-AREA FLOW Qc	DIRECT PIPE FLOW Qp	PEAK FLOW Qrat	NET BYPASS FLOW Qb	PIPE FLOW Q	FLOW CAP Qcap	Q/Qcap RATIO	FULL PIPE VELOCITY	NORM DEPTH VELOCITY	CRIT DEPTH VELOCITY	UIS PIT GRATE RL	PIPE UIS IL	PIPE DIS IL	PIPE DIS DROP	UIS PIT Ku	UIS PIT Kw	PIPE V/HEAD	PIT LOSS (Ku V/HEAD)	WSE LOSS (Kw V/HEAD)	TOTAL PIPE LOSS	UIS PIT HGL	UIS PIPE HGL	D/S PIPE HGL	HGL GRADE (%)	MIN COVER	UIS FREEBOARD	COMMENTS	
(-)	(-)	(mm)	(m)	(%)	(sq.m)	(min)	(mm/hr)	(ha)	(L/s)	(min)	(mm/hr)	(ha)	(L/s)	(L/s)	(L/s)	(L/s)	(L/s)	(L/s)	(-)	(m/s)	(m/s)	(m/s)	(m)	(m)	(m)	(m)	(-)	(-)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
01/1 to 01/2	uPVC	300	31.35	0.5	0.07	16.16	88.1	0.312	76.2	6	134.2	0.21	76.9	0	76.9	0	76.9	98.8	0.76	1.09	1.54	1.41	40.135	39.405	39.249	0.07	4.5	0.06	0.27	0.27	0.09	39.957	39.685	39.596	0.28	0.4	0.18			
01/2 to 01/3	uPVC	300	27.87	0.5	0.07	16.5	87.2	0.312	75.5	6.34	131.6	0.21	75.4	0	75.5	0	75.5	98.8	0.76	1.07	1.54	1.4	40.45	39.179	39.039	0.07	0.25	0.06	0.01	0.01	0.08	39.596	39.582	39.501	0.29	0.81	0.85			
01/3 to 01/4	RRJ2	525	29.42	0.5	0.22	16.8	86.4	0.867	208	6.64	129.4	0.76	273.5	0	273.5	0	273.5	329.6	0.83	1.26	1.7	1.78	40.169	39.969	38.822	0.07	1.79	0.08	0.15	0.15	0.11	39.501	39.355	39.288	0.23	0.64	0.67			
01/4 to 01/5	RRJ2	525	27.8	0.5	0.22	17.09	85.7	0.867	208.3	6.92	127.2	0.76	269.9	0	269.9	0	269.9	329.6	0.82	1.24	1.7	1.75	40.466	38.752	38.613	0.07	0.29	0.08	0.02	0.02	0.09	39.288	39.265	39.175	0.32	1.06	1.18			
01/5 to 01/6	RRJ2	525	43.63	0.5	0.22	17.38	85.1	1.167	275.7	6.85	127.8	1.02	363.4	0	363.4	0	363.4	329.6	1.1	1.68	1.68	1.68	40.235	38.543	38.325	0.07	0.42	0.14	0.06	0.06	0.27	39.175	39.115	38.85	0.61	1.17	1.06			
01/6 to 01/7	RRJ2	600	61.76	0.5	0.28	20	79.3	1.394	307	7.28	124.8	1.14	394.7	0	394.7	0	394.7	470.6	0.84	1.4	1.86	1.91	40.389	38.255	37.946	0.05	0.65	0.1	0.06	0.06	0.29	38.741	38.676	38.42	0.41	1.22	1.65			
01/7 to 04/7	RRJ2	600	55.93	0.5	0.28	20.55	78.3	1.394	303.1	8.18	119.1	1.16	383.4	0	383.4	0	383.4	470.6	0.81	1.36	1.85	1.86	39.852	37.896	37.617	0.05	0.2	0.09	0.02	0.02	0.17	38.42	38.402	38.251	0.27	0.86	1.38			
02/1 to 02/2	uPVC	225	9.82	1	0.04	6	134.2	0.064	23.8	6	134.2	0.06	23.8	0	23.8	0	23.8	64.9	0.37	0.6	1.51	1.02	40.85	40.025	39.927	0.07	4.5	0.02	0.08	0.08	0.1	40.236	40.153	40.057	0.98	0.6	0.61			
02/2 to 02/3	uPVC	225	16.01	1	0.04	6.11	133.4	0.088	32.7	6	134.2	0.09	32.5	0	32.7	0	32.7	64.9	0.5	0.82	1.63	1.15	40.789	39.857	39.697	0.07	1.41	0.03	0.05	0.05	0.14	40.057	40.008	39.815	1.21	0.75	0.73			
02/3 to 02/4	uPVC	225	20.02	1	0.04	6.27	132.1	0.088	32.4	6.16																														

Printed: 15 October 2014 12:18:26 PM File Name: J:\9343\DVILLAGE OVAL PK15\CC - Construction Certificate Approval Plans\934315CC34.dwg



SRV	parameters	values
Width	2.30	meters
Track	2.30	meters
Lock to Lock Time	6.0	seconds
Steering Angle	38.0	degrees



NO.	DESCRIPTION	DESIGNED BY	CHECKED BY	DATE
1	ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL	PAS	PAS	AM
2	AMENDMENT	DES	DRN	CKD
3				
4				
5				
6				
7				
8				
9				
10				

**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:

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

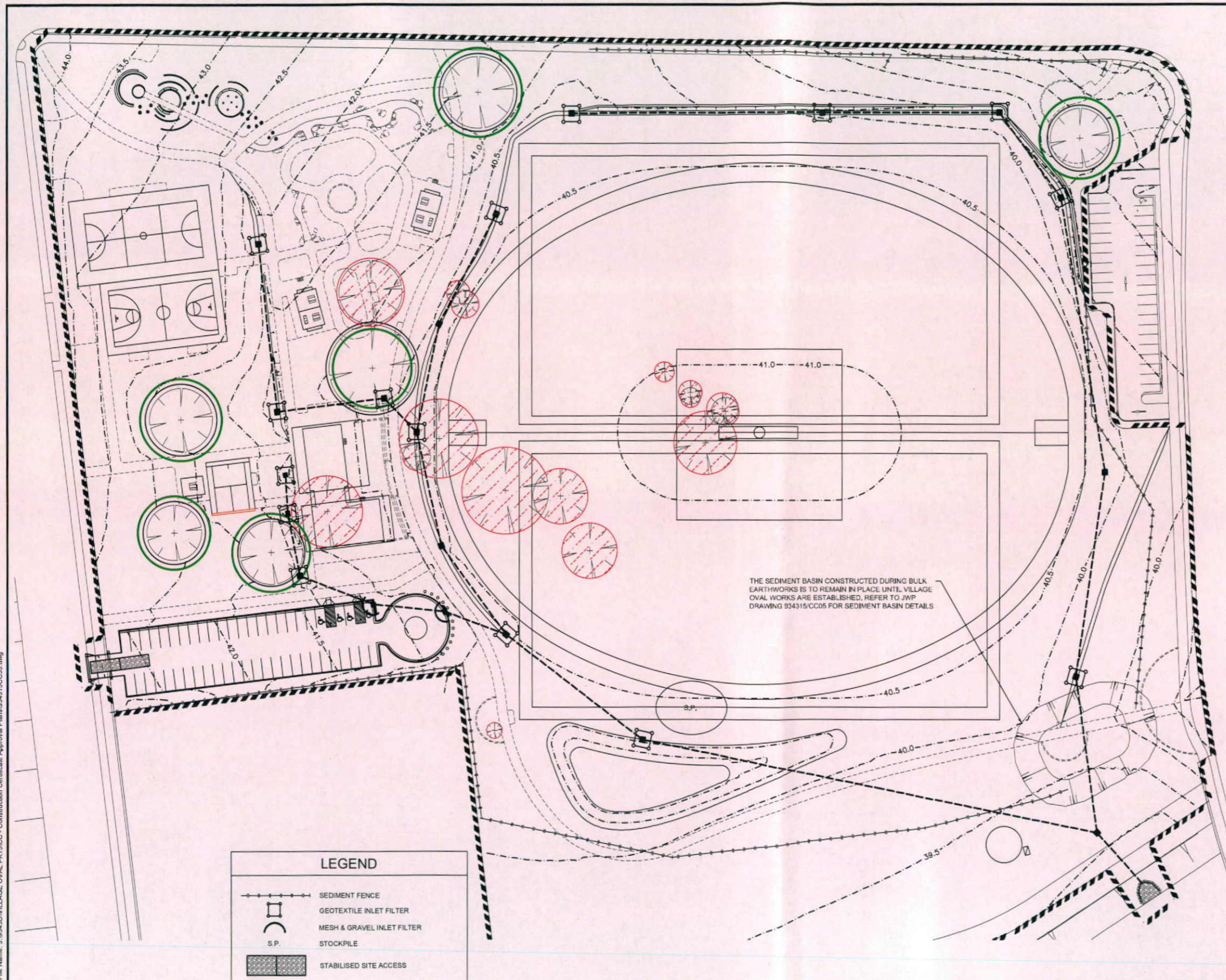
**ISSUED FOR CONSTRUCTION APPROVAL**

JORDAN SPRINGS VILLAGE OVAL TURNING PATH PLAN

PLAN No: 934315/CC34 **A**

FILE No: 934315CC34

SHEET SIZE: A1 ORIGINAL



- STOCKPILE NOTES:**
1. SPOIL AND TOPSOIL STOCKPILES SHALL BE LOCATED AWAY FROM DRAINAGE LINES AND AREAS WHERE WATER MAY CONCENTRATE.
  2. IF STOCKPILES ARE TO BE IN PLACE FOR LONGER THAN 14 DAYS THEN THEY SHALL BE STABILISED BY COVERING WITH A MULCH OR WITH TEMPORARY VEGETATION.
  3. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE RESPREAD TO A MINIMUM DEPTH OF 100mm ON THE BARE SOIL SURFACES AND REVEGETATE.
  4. ALL STOCKPILES TO BE (MAX) 2m HIGH AND PROTECTED WITH SILT FENCE.

- SPECIAL NOTES:**
1. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE.
  2. REFER TO "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" 4TH EDITION FOR TYPICAL DETAILS OF STANDARD SEDIMENT AND EROSION CONTROL DEVICES.
  3. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE GUIDELINES SET OUT IN "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" 4TH EDITION AND THE ACCOMPANYING ROAD AND DRAINAGE PLANS.
  4. CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT.
  5. MANAGEMENT DEVICES SHALL BE MAINTAINED ON A REGULAR BASIS. WHERE CLEANING IS REQUIRED, THE SEDIMENT SHALL BE REMOVED TO A POINT NOMINATED BY THE ENGINEER.
  6. PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS, AND AFTER THE ROAD CENTRELINES HAVE BEEN PEGGED AND/OR PERMANENTLY MARKED, THE SITE MUST BE INSPECTED BY COUNCIL'S REPRESENTATIVE AND THE APPLICANT'S REPRESENTATIVE TO IDENTIFY AND APPROPRIATELY MARK:
    - a) THE TREES TO BE RETAINED.
    - b) ALL TREES TO BE LEFT UNDISTURBED AND TO BE CORDONED OFF.
  7. NO TREES SHALL BE REMOVED WITHOUT COUNCIL'S CLEARANCE.
  8. MANAGEMENT DEVICES TO REMAIN UNTIL THE END OF THE MAINTENANCE PERIOD.

**SEDIMENTATION CONTROL DEVICES:**  
 ALL STRAW BALES SHALL BE BOUND WITH WIRE. STRAW BALES SHALL BE PLACED END TO END IN A SINGLE ROW AND EMBEDDED INTO THE SOIL TO A DEPTH OF 100mm. EACH BALE SHALL BE SECURELY ANCHORED WITH TWO STEEL STAKES DRIVEN 450mm INTO THE GROUND AND LOCATED ON THE BALE CENTRE LINE. SILT FENCES SHALL BE CONSTRUCTED BY STRETCHING A FILTER FABRIC (PROPEX OR SIMILAR) BETWEEN POSTS AT 2m (3m MAX) CENTRES. FABRIC SHALL BE BURIED 150mm ALONG ITS LOWER EDGE.

**LEGEND**

	SEDIMENT FENCE
	GEOTEXTILE INLET FILTER
	MESH & GRAVEL INLET FILTER
	STOCKPILE
	STABILISED SITE ACCESS

Printed: 15 October, 2014 12:18:40 PM File Name: J:\934315\CC - Construction Certificate Approval Plans\934315CC35.dwg

ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL	PAS	PAS	AM	PI	15/10/14
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

CLIENT: **Lend Lease**

AZIMUTH: MGA  
 DATUM: AHD  
 ORIGIN:

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

**ISSUED FOR CONSTRUCTION APPROVAL**

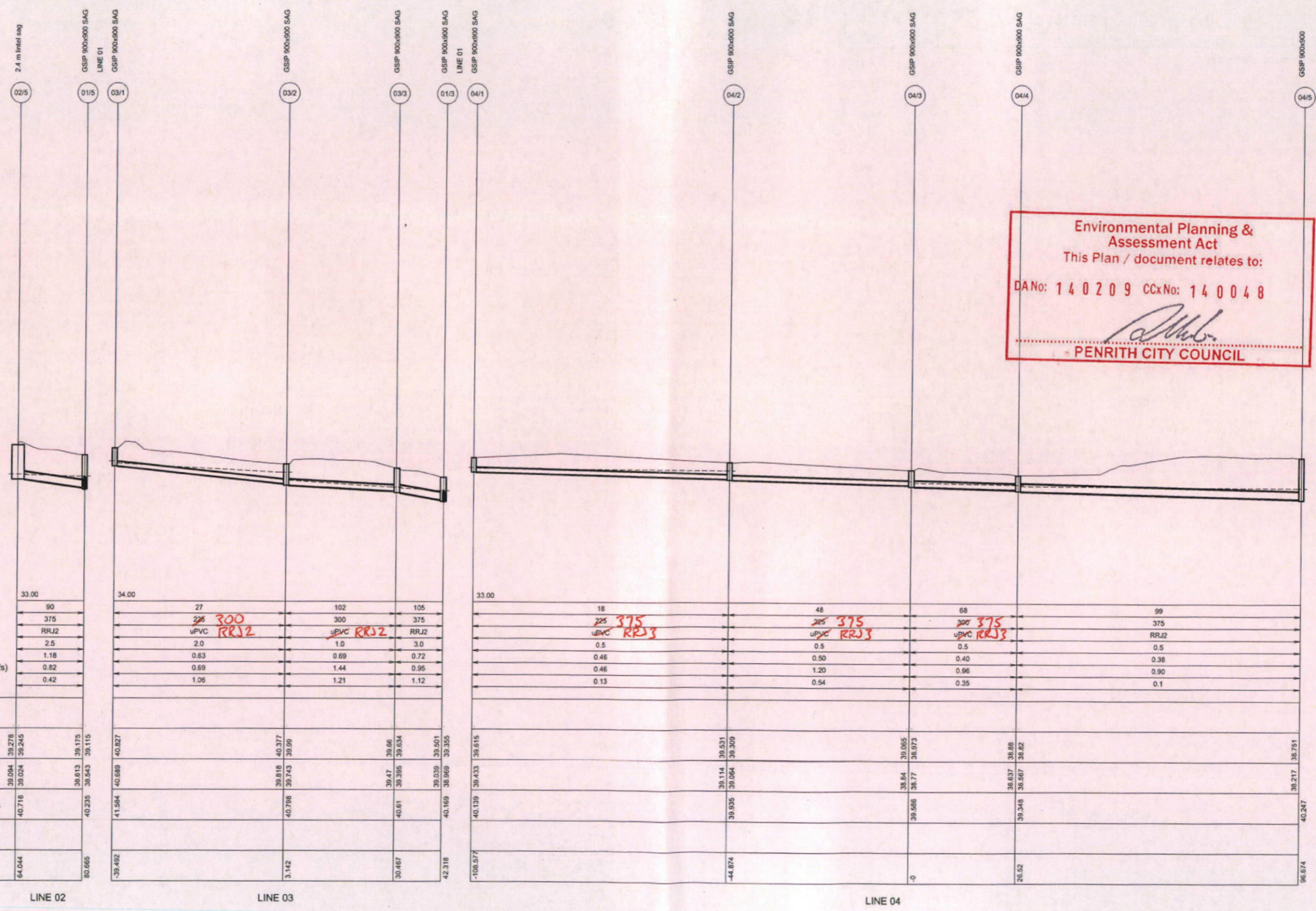
JORDAN SPRINGS VILLAGE OVAL  
 SOIL AND WATER MANAGEMENT  
 DETAIL PLAN

PLAN No: 934315/CC35 **A**  
 FILE No: 934315CC35  
 SHEET SIZE: A1 ORIGINAL



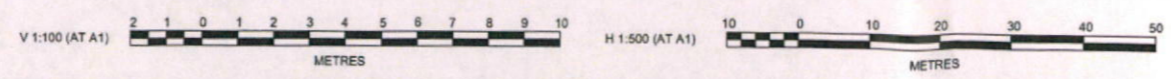


Plotted: 15 October, 2014 12:17:39 PM File Name: J:\9343\DIV\VILLAGE OVAL PK15CC - Construction Certificate Approval Plans\934315CC31.dwg



Environmental Planning & Assessment Act  
 This Plan / document relates to:  
 DA No: 14 02 09 CCx No: 14 00 48  
  
 PENRITH CITY COUNCIL

Property	LINE 02	LINE 03	LINE 04
DATUM (m)	33.00	34.00	33.00
PEAK FLOW (L/s)	90	27	18
PIPE SIZE (mm)	375	300	48
PIPE CLASS	RRJ2	uPVC RRJ2	uPVC RRJ2
PIPE GRADE (%)	2.5	2.0	0.5
PIPE COVER MINIMUM	1.18	0.63	0.46
FULL PIPE VELOCITY (m/s)	0.82	0.69	0.46
HGL GRADE (%)	0.42	1.06	0.13
WAE			
HYDRAULIC GRADE LINE	39.094 39.278 39.175	40.827 40.377 39.99	39.114 39.531 39.309
INVERT LEVEL	39.094 39.024 39.245	39.818 39.743 39.99	39.055 39.064 39.309
DESIGN SURFACE LEVEL	40.718 40.718 40.235	41.584 40.798 40.81	39.84 39.935 39.566
ROAD CHAINAGE			
PIPE CHAINAGE	64.044 80.865	-39.482 3.142 30.467 42.318	-108.577 -44.874 39.566 38.77 38.973 38.84 39.065 38.637 38.68 38.567 38.62 38.217 40.287



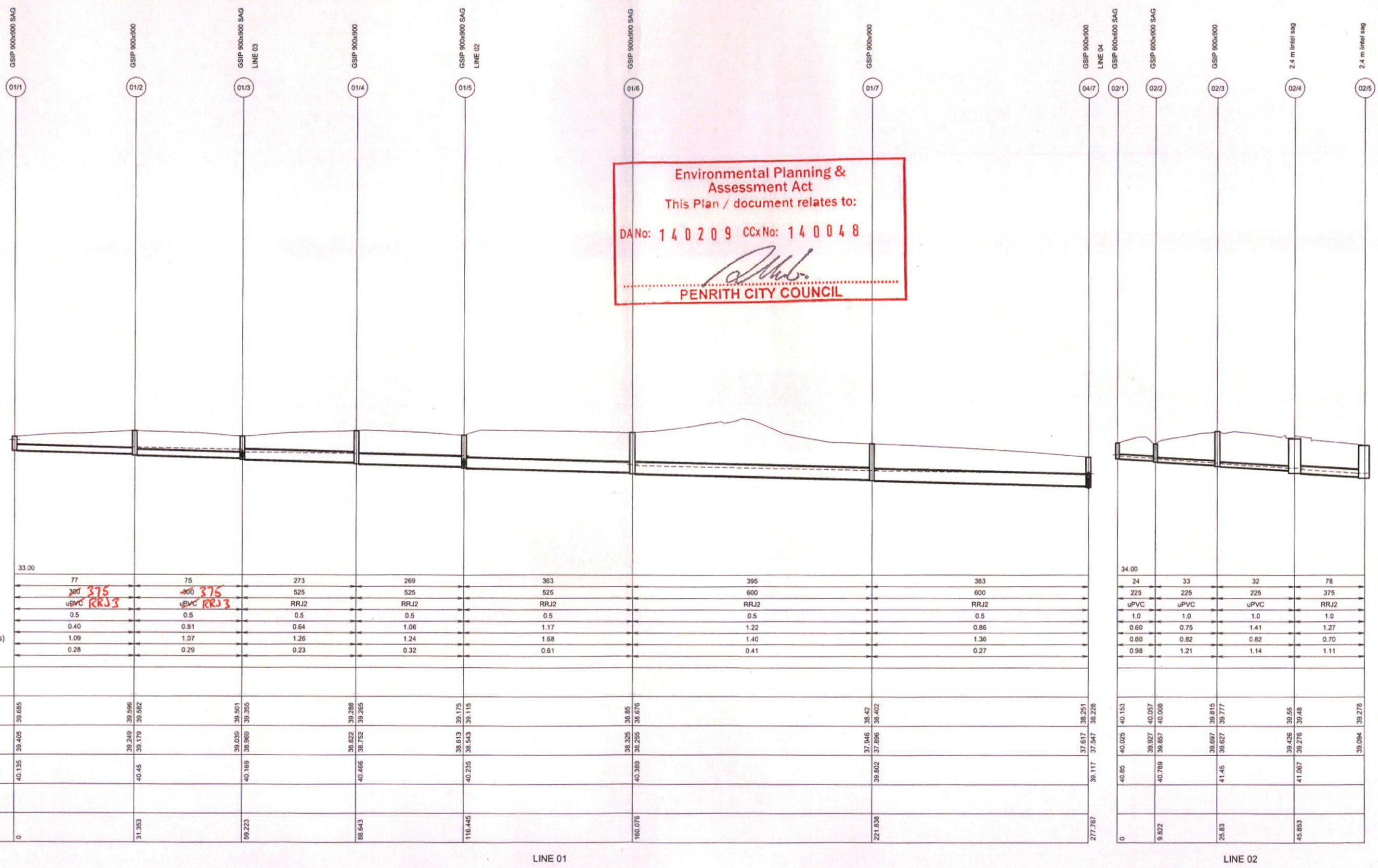
ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL	PAS	PAS	AM	PI	15/10/14
AMENDMENT	DES	DRN	CKD	APR	DATE

**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 jw@jwprince.com.au

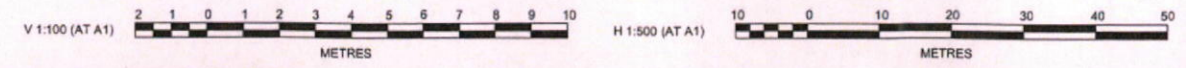
AZIMUTH: MGA  
 DATUM: AHD  
 ORIGIN:


CLIENT: **Lend Lease**  
 ISSUED FOR CONSTRUCTION APPROVAL  
 JORDAN SPRINGS VILLAGE OVAL  
 STORMWATER LONG SECTIONS (1:10YR ARI)  
 SHEET 2  
 PLAN No: 934315/CC31 **A**  
 FILE No: 934315CC31  
 SHEET SIZE: A1 ORIGINAL

Environmental Planning &  
Assessment Act  
This Plan / document relates to:  
DA No: 140209 CCx No: 140048  
  
PENRITH CITY COUNCIL



	LINE 01							LINE 02			
DATUM (m)	33.00							34.00			
PEAK FLOW (L/s)	77	75	273	269	363	395	383	24	33	32	78
PIPE SIZE (mm)	300 <i>375</i>	300 <i>375</i>	525	525	525	600	600	225	225	225	375
PIPE CLASS	uPVC <i>RRJ3</i>	uPVC <i>RRJ3</i>	RRJ2	RRJ2	RRJ2	RRJ2	RRJ2	uPVC	uPVC	uPVC	RRJ2
PIPE GRADE (%)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
PIPE COVER MINIMUM	0.40	0.81	0.64	1.06	1.17	1.22	0.86	0.80	0.75	1.41	1.27
FULL PIPE VELOCITY (m/s)	1.09	1.07	1.26	1.24	1.68	1.40	1.36	0.80	0.82	0.82	0.70
HGL GRADE (%)	0.28	0.29	0.23	0.32	0.61	0.41	0.27	0.98	1.21	1.14	1.11
WAE											
HYDRAULIC GRADE LINE	39.865	39.596	39.501	39.288	38.85	38.42	38.251	40.153	40.057	39.815	39.278
INVERT LEVEL	39.405	39.249	39.011	38.822	38.543	38.42	37.617	40.026	39.927	39.657	39.55
DESIGN SURFACE LEVEL	40.135	40.45	40.169	40.466	40.235	40.369	39.802	40.85	40.789	41.45	41.067
ROAD CHAINAGE											
PIPE CHAINAGE	0	31.353	59.223	88.643	116.445	160.076	221.838	0	9.822	26.83	45.853



 CLIENT:	ISSUED FOR CONSTRUCTION APPROVAL	
	JORDAN SPRINGS VILLAGE OVAL STORMWATER LONG SECTIONS (1:10YR ARI) SHEET 1	
AZIMUTH: MGA DATUM: AHD ORIGIN:	PLAN No: 934315/CC30 <b>A</b> FILE No: 934315CC30 SHEET SIZE: A1 ORIGINAL	

**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

Printed: 15 October, 2014 12:17:26 PM File Name: J:\9343\VILLAGE OVAL PK1\934315CC30.dwg Construction Certificate Approval Plans\934315CC30.dwg

A	ISSUED FOR CONSTRUCTION CERTIFICATE APPROVAL AMENDMENT	PAS	PAS	AM	PI	15/10/14
		DES	DRN	CKD	APR	DATE