

PROJECT: **EVENT CARPARK WORKS**

PLANSET: CONCEPT ENGINEERING WORK

CLIENT: **NEWCASTLE LEGAL AND CONVEYANCING**




LOCALITY PLAN
NOT TO SCALE

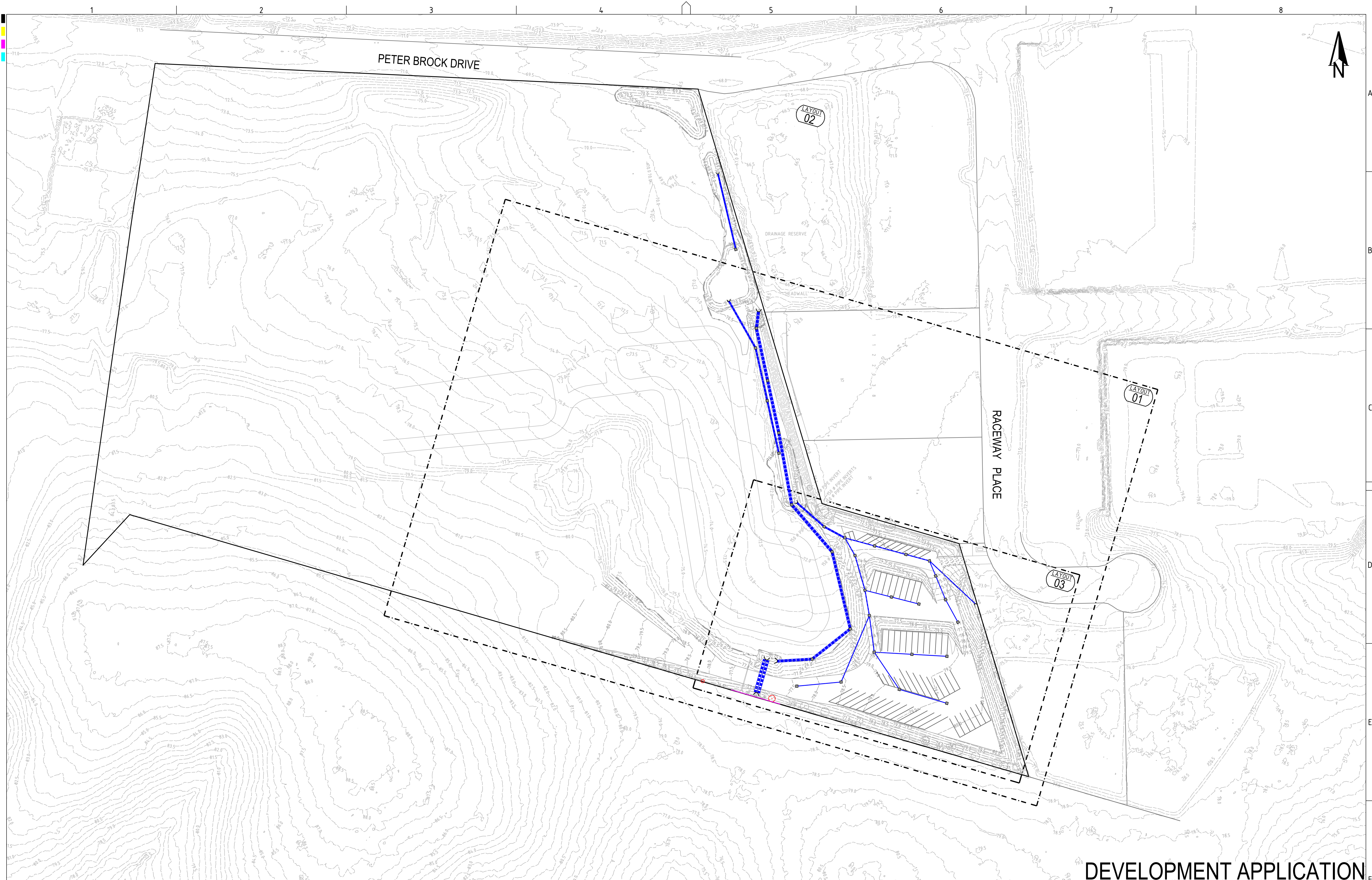
LGA: BLACKTOWN CITY COUNCIL

50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766
LOT 4 DP 1079897

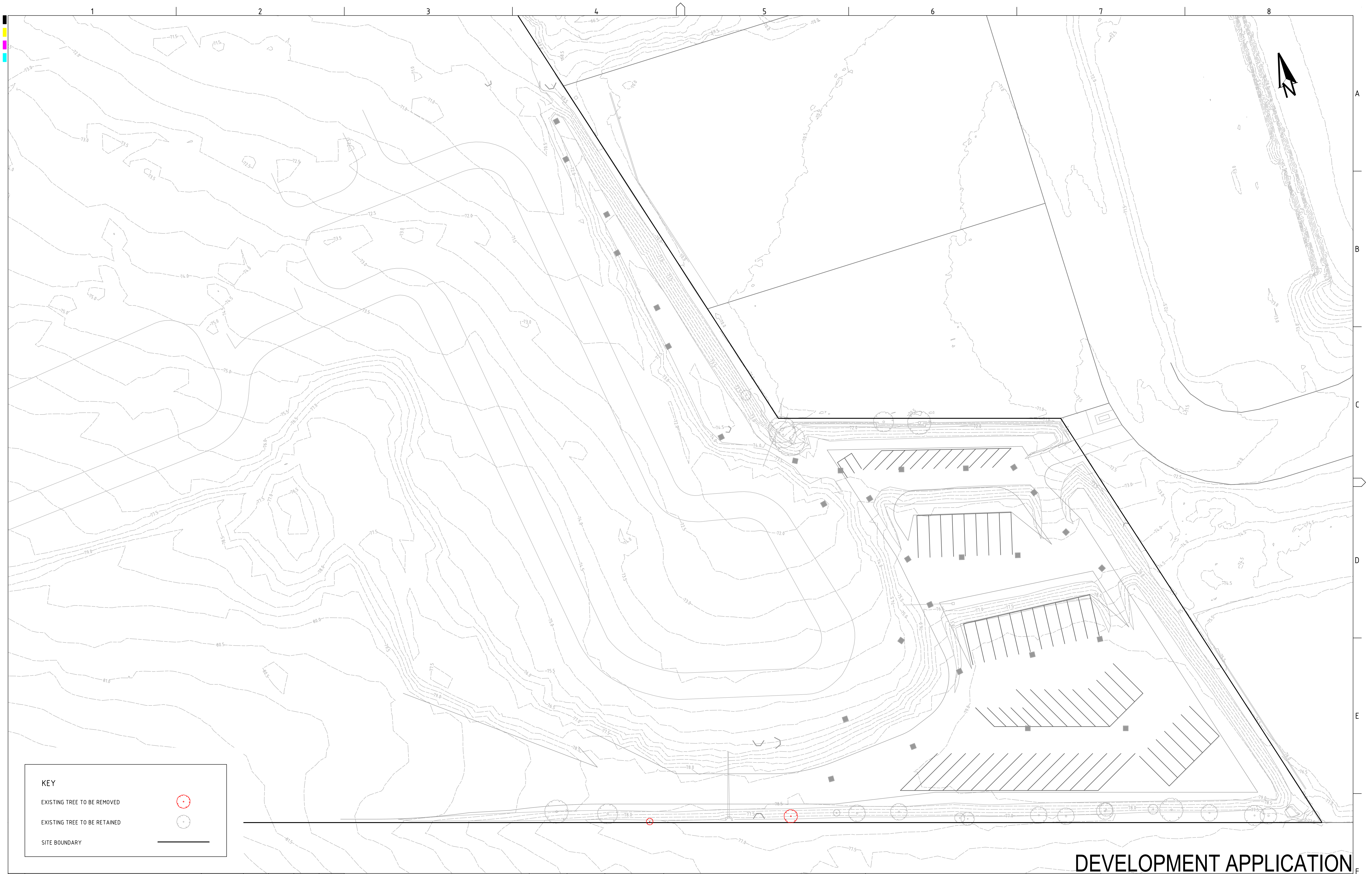
DRAWING LIST		
DWG NO.	REV	DWG TITLE
GENERAL		
PS01-A000	B	COVER SHEET
PS01-A050	B	DEVELOPMENT OVERVIEW PLAN
CONSTRUCTION MANAGEMENT WORKS		
PS01-B300	A	TREE REMOVAL PLAN
EARTHWORKS		
PS01-C100	B	EARTHWORKS GRADING PLAN
PS01-C600	B	EARTHWORKS SITE SECTIONS - SHEET 1
PS01-C601	B	EARTHWORKS SITE SECTIONS - SHEET 2
DRAINAGE		
PS01-E100	B	DRAINAGE PLAN
PS01-E200	B	DRAINAGE DETAILS - SHEET 1
PS01-E201	B	DRAINAGE DETAILS - SHEET 2
PS01-E202	B	DRAINAGE DETAILS - SHEET 3
PS01-E300	B	LONGITUDINAL SECTION - SHEET 1
PS01-E301	B	LONGITUDINAL SECTION - SHEET 2
PS01-E302	B	LONGITUDINAL SECTION - SHEET 3
PS01-E600	B	ON SITE DETENTION CATCHMENT PLAN - MODELS & RESULTS
PS01-F700	B	WATER QUALITY CATCHMENT PLAN - MODELS & RESULTS
FINAL CIVIL WORKS		
PS01-G300	B	CARPARK LAYOUT PLAN
PS01-G200	B	CARPARK SWEEP PATH PLAN - SHEET 1 - B99 VEHICLE & TRAILER CIRCULATION
PS01-G201	B	CARPARK SWEEP PATH PLAN - SHEET 2 - B99 VEHICLE & TRAILER PARKING
PS01-G202	B	CARPARK SWEEP PATH PLAN - SHEET 3 - HRV CIRCULATION

DEVELOPMENT APPLICATION


REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPROVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	 <div>Consulting Engineers Environment Water Geotechnical Civil</div>	DRAWING TITLE COVER SHEET	
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM		N/A	N/A	GH	NEWCASTLE LEGAL AND CONVEYANCING			
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM								
A1 / A3 LANDSCAPE (A1/LC v02.0.01)							DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd (C) Copyright Martens & Associates Pty Ltd	PROJECT NAME/PLANSET TITLE EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS 50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897			Suite 201, 20 George St, Hornsby, NSW 2077 Australia. Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au			



REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE 	GRID	DATUM	PROJECT MANAGER	CLIENT	 Consulting Engineers Environment Water Geotechnical Civil Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au	DRAWING TITLE DEVELOPMENT OVERVIEW PLAN			
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM		MGA	mAHD	GH	NEWCASTLE LEGAL AND CONVEYANCING					
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM					PROJECT NAME/PLANSET TITLE					
								DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd				EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS				
								50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897								



DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div>Consulting Engineers Environment Water Geotechnical Civil</div><div>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au</div></div>	DRAWING TITLE TREE REMOVAL PLAN	<div><div>PROJECT NO. P2108122</div><div>PLANSET NO. PS01</div><div>RELEASE NO. R03</div><div>DRAWING NO. PS01-B300</div><div>REVISION A</div></div>				
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							DISCLAIMER & COPYRIGHT											
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							All measurements in millimetres unless otherwise specified.											
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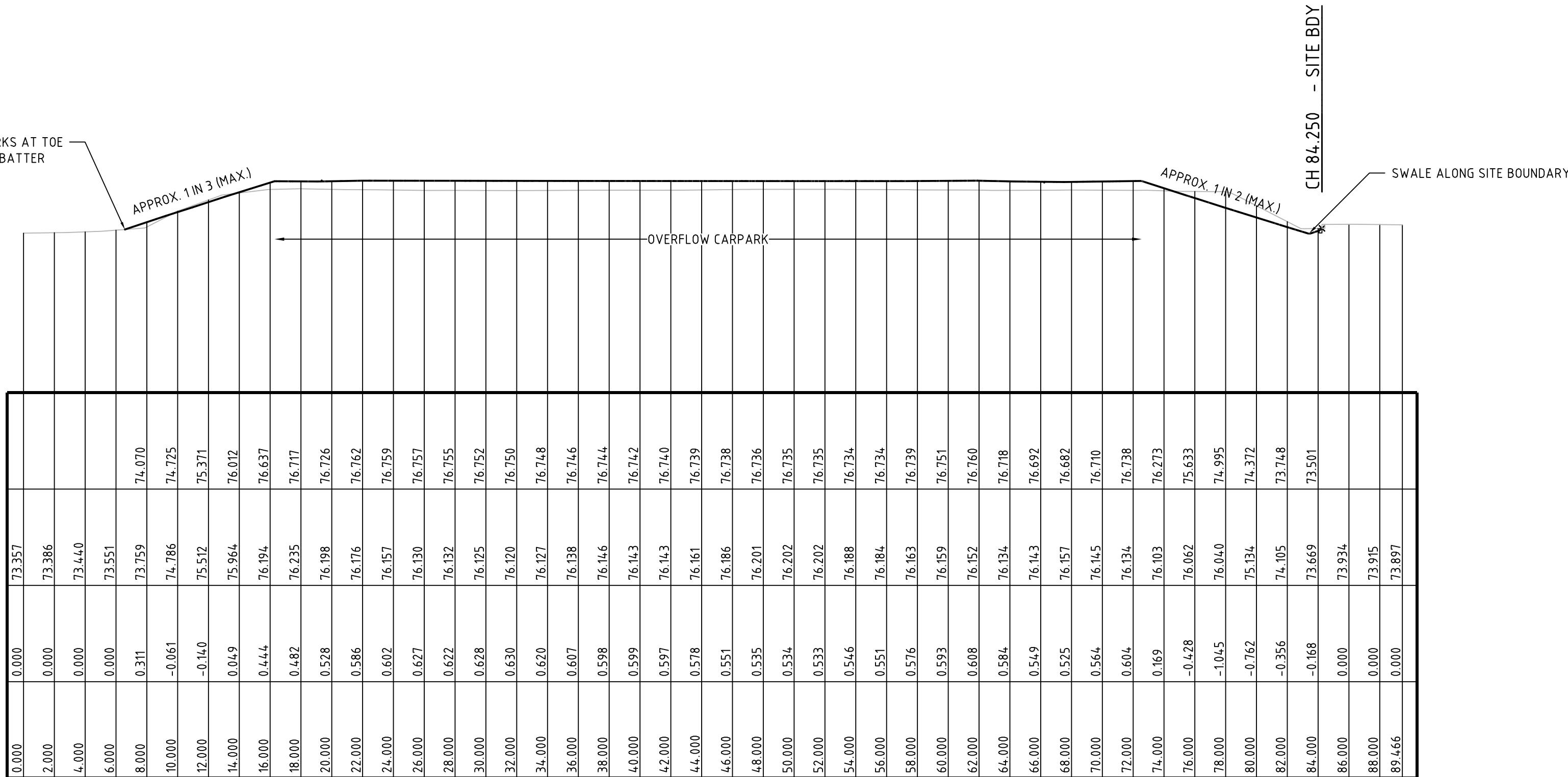
A17 A3 LANDSCAPE [A17C_V02.0.0.0]



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A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM					PROJECT NAME/PLANSET TITLE	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION	
											DISCLAIMER & COPYRIGHT	P2108122	PS01	R03	PS01-C100	B	
											This plan must not be used for construction unless signed as approved by principal certifying authority.	EVENT CARPARK WORKS				CONCEPT ENGINEERING WORKS	
											All measurements in millimetres unless otherwise specified.	50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766				LOT 4 DP 1079897	
											This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd.	Drawing ID: P2108122-PS01-R03-C100					
											(C) Copyright Martens & Associates Pty Ltd	Drawing ID: P2108122-PS01-R03-C100					
A1 / A3 LANDSCAPE [A1LC_v02.0.01]																	

DATUM RL 63.000

DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE

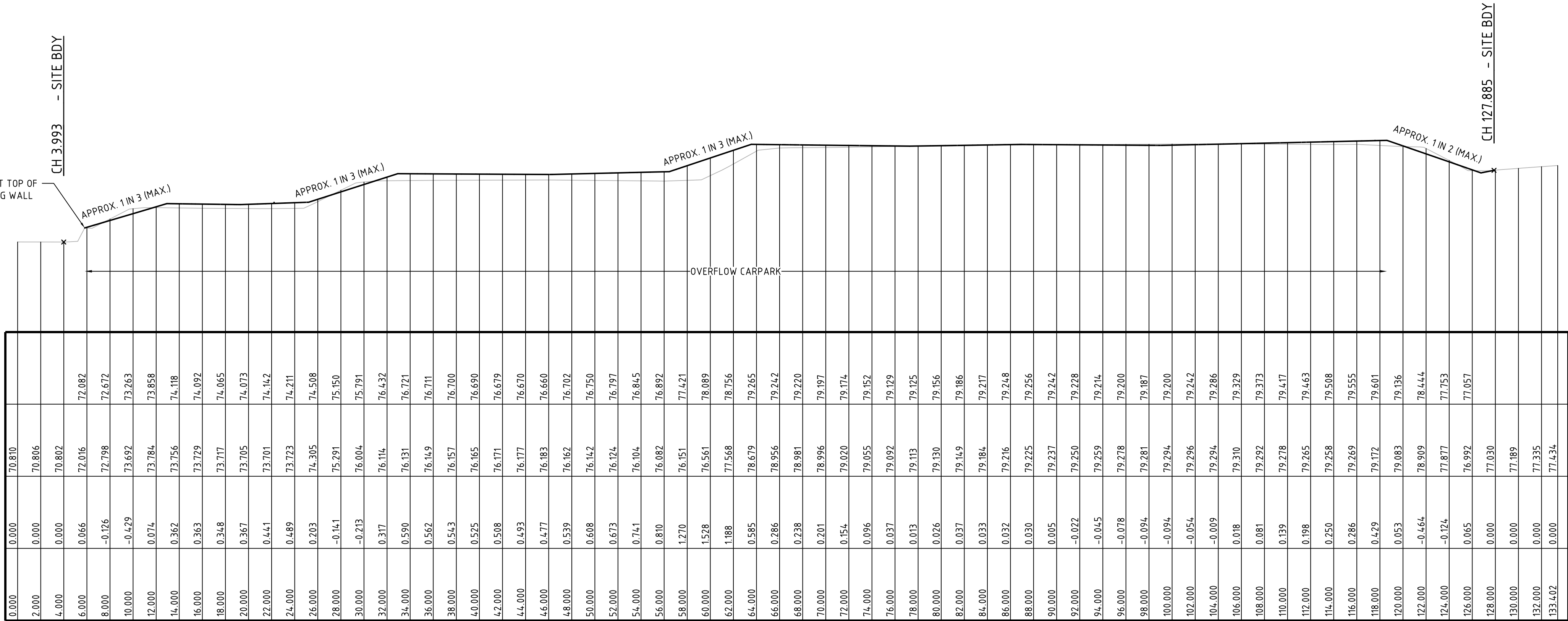


SECTION B

SCALE: HORIZONTAL - 1:250
VERTICAL - 1:250

DATUM RL 63.000

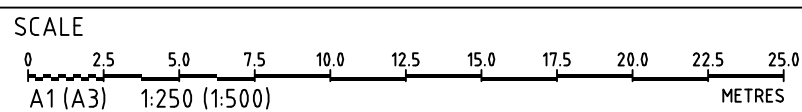
DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE



SECTION A

SCALE: HORIZONTAL - 1:250
VERTICAL - 1:250

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	GH	NEWCASTLE LEGAL AND CONVEYANCING
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EVENT CARPARK WORKS			
CONCEPT ENGINEERING WORKS			
50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766			
LOT 4 DP 1079897			

Consulting Engineers
Environment
Water
Geotechnical
Civil

DRAWING TITLE

EARTHWORKS SITE SECTIONS
SHEET 1

PROJECT NO.

PLANSET NO.

RELEASE NO.

DRAWING NO.

REVISION

P2108122

PS01

R03

PS01-C600

B

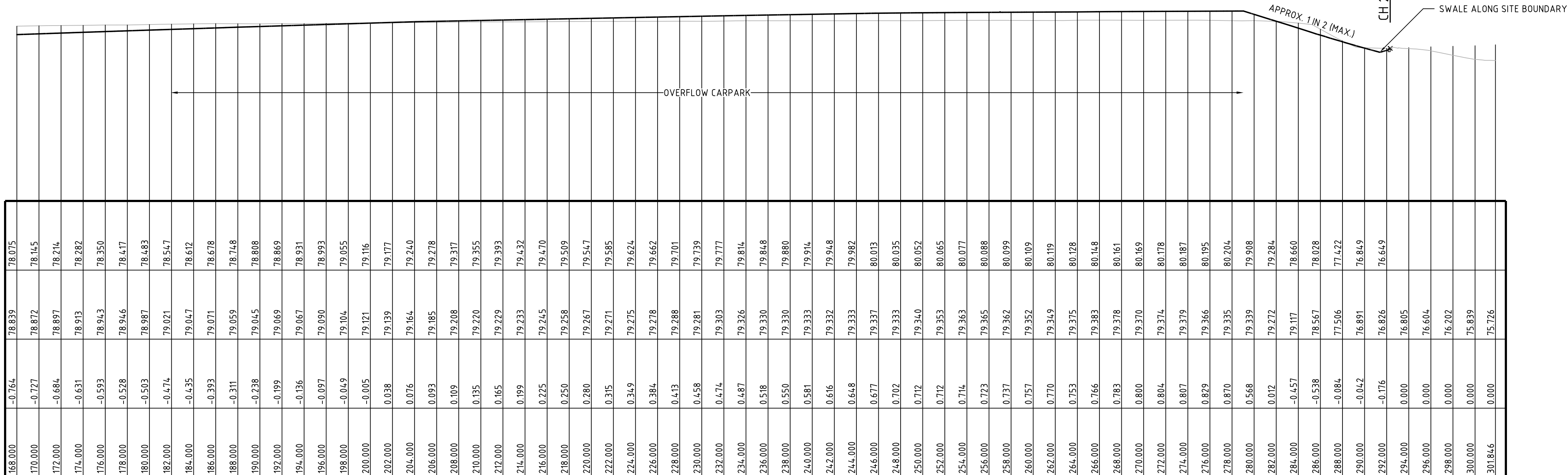
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Phone: (02) 9476 9999 Fax: (02) 9476 8767

Email: mail@martens.com.au Internet: www.martens.com.au

DEVELOPMENT APPLICATION

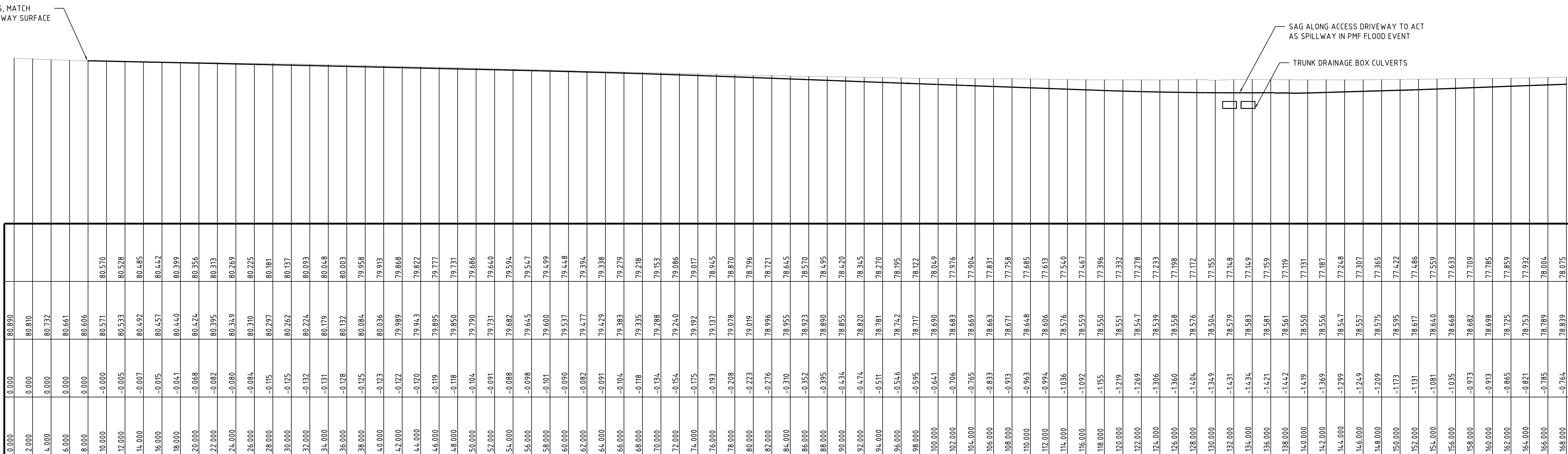
DATUM RL 63.000
DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE



SECTION C

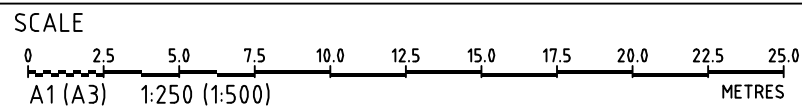
SCALE: HORIZONTAL - 1:250
VERTICAL - 1:250

DATUM RL 63.000
DESIGN SURFACE LEVELS
EXISTING SURFACE LEVELS
CUT / FILL DEPTH
CHAINAGE



SECTION C

SCALE: HORIZONTAL - 1:250
VERTICAL - 1:250

[illegible]

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHd	GH	NEWCASTLE LEGAL AND CONVEYANCING
DISCLAIMER & COPYRIGHT			PROJECT NAME/PLANSET TITLE
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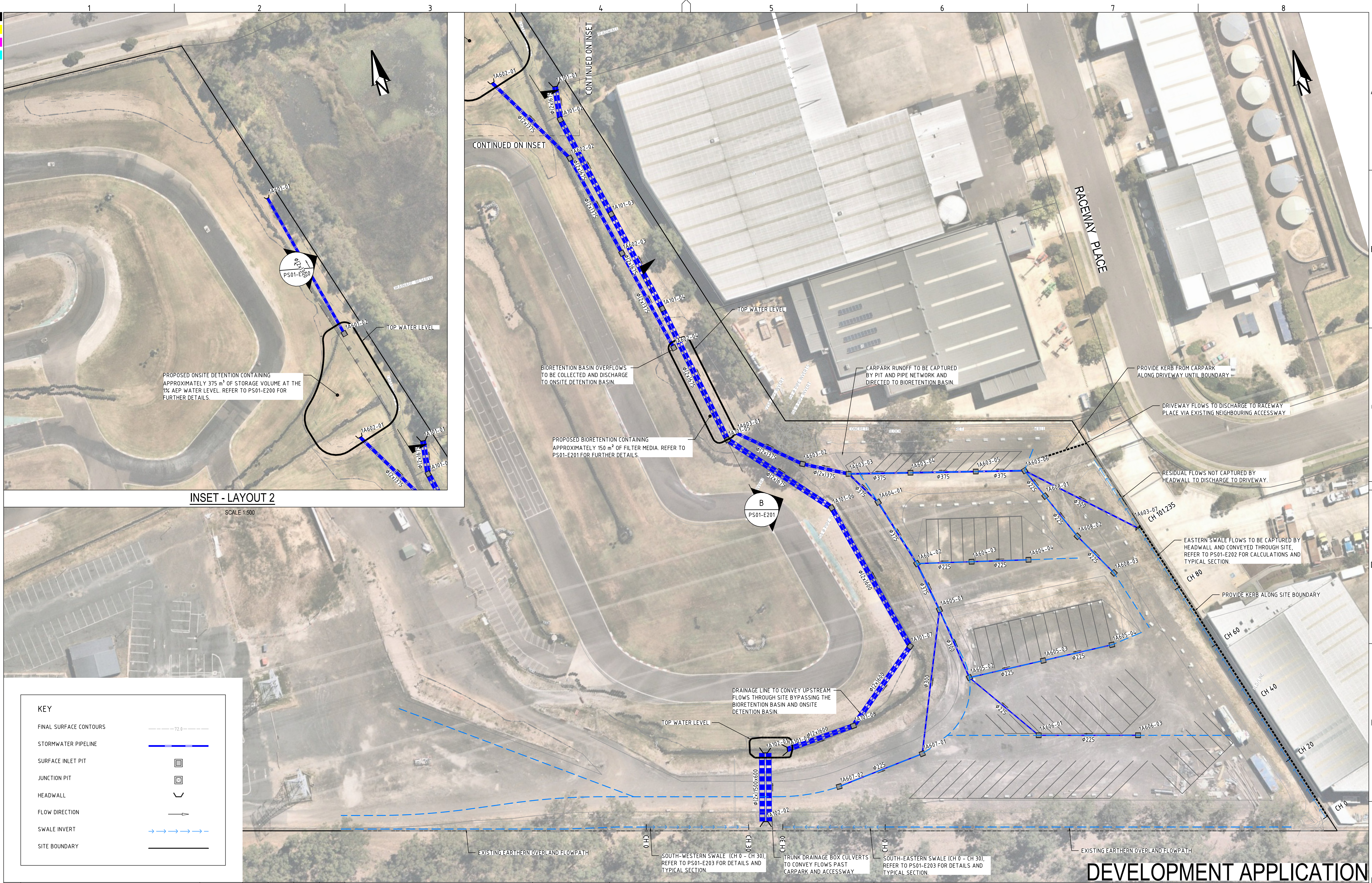
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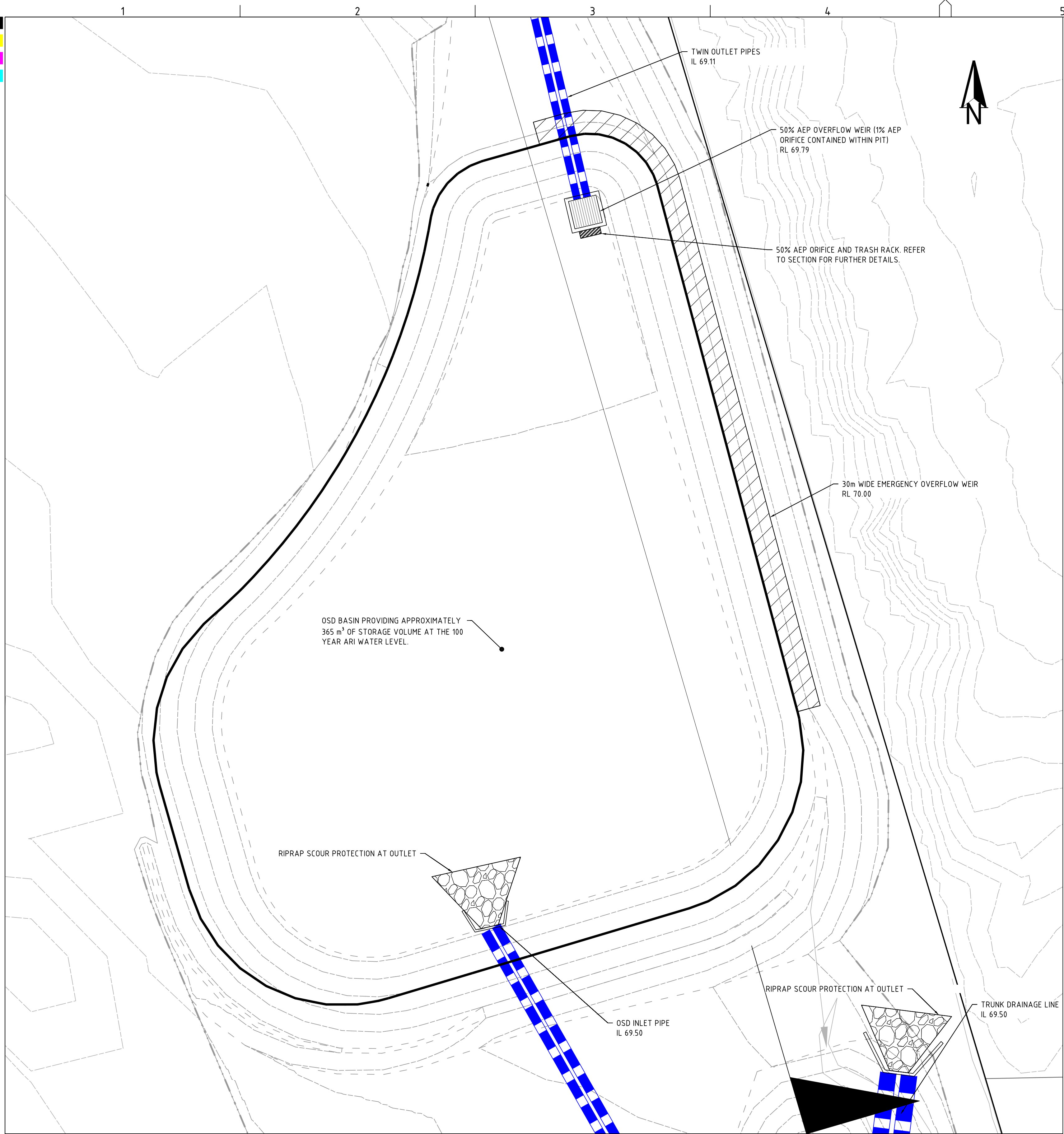
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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
EARTHWORKS SITE SECTIONS				
SHEET 2				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-C601	B

DEVELOPMENT APPLICATION



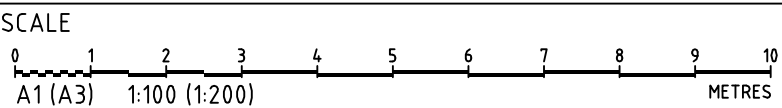
REV		DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	<div>SCALE</div> <div><div><div>0</div><div>5</div><div>10</div><div>15</div><div>20</div><div>25</div><div>30</div><div>35</div><div>40</div><div>45</div><div>50</div></div><div>A1 (A3) 1:500 (1:1,000)</div><div>METRES</div></div>	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><div></div><div></div></div><div><div><div><div></div><div></div><div></div></div></div><div><div><div><div></div><di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ONSITE DETENTION PLAN

SCALE 1:100

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM



GRID	DATUM	PROJECT MANAGER
MGA	mAHD	GH
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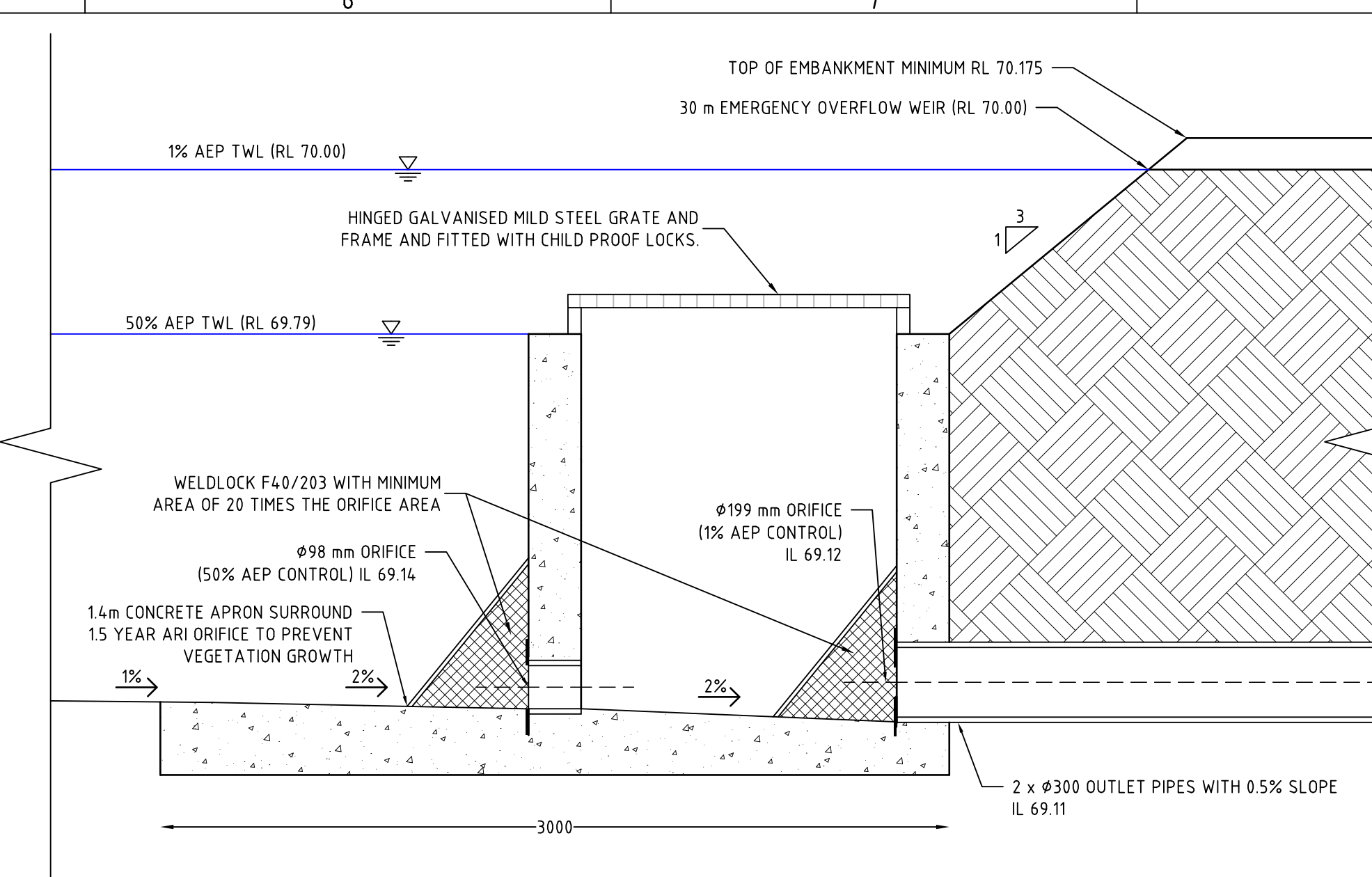
CLIENT
NEWCASTLE LEGAL AND CONVEYANCING
PROJECT NAME/PLANSET TITLE
EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS
50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897

Consulting Engineers

Environment
Water
Geotechnical
Civil

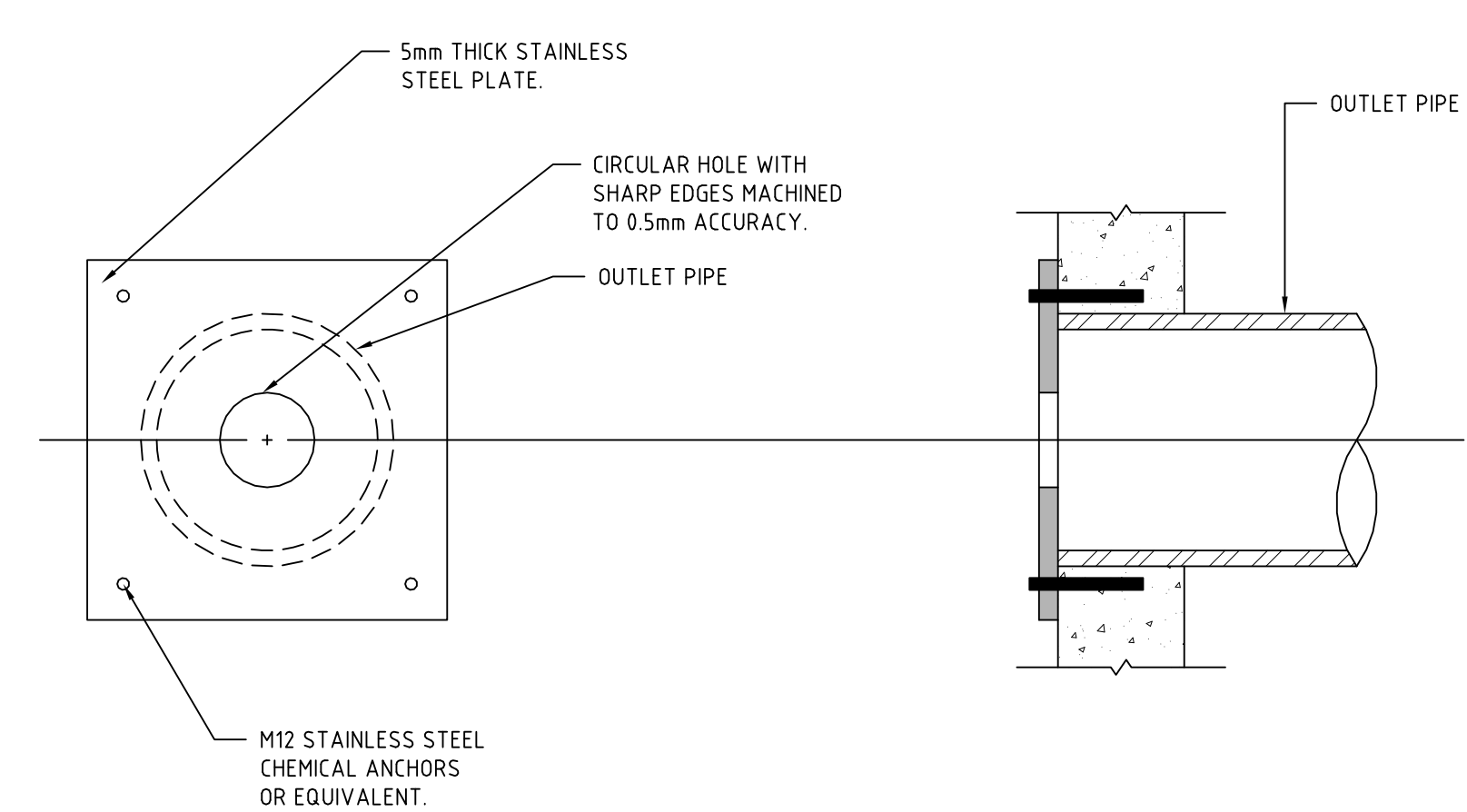
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767
Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
DRAINAGE DETAILS SHEET 1				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-E200	B



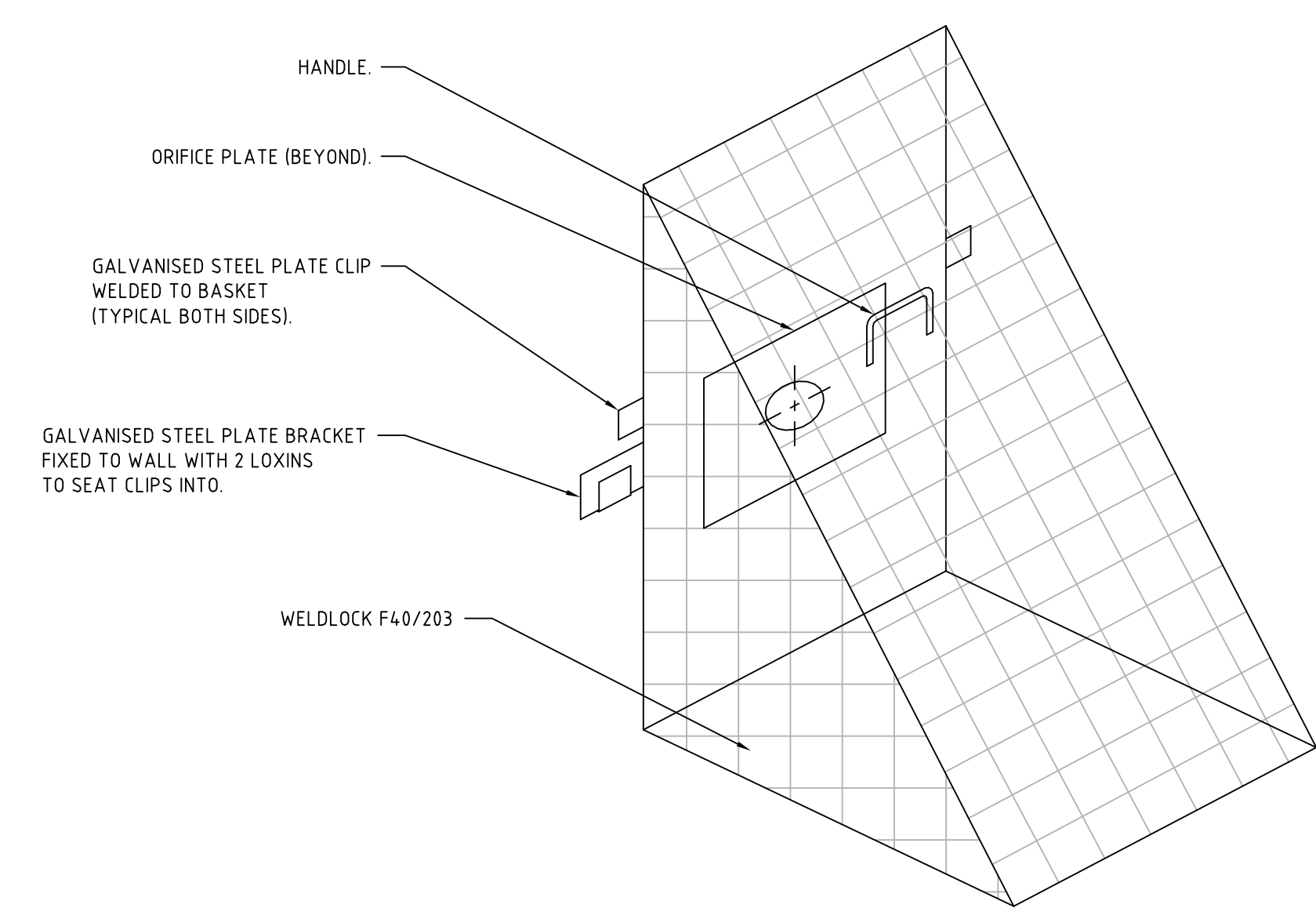
OSD OUTLET STRUCTURE

NOT TO SCALE



TYPICAL ORIFICE PLATE DETAIL

NOT TO SCALE



TRASH SCREEN DETAILS

NOT TO SCALE

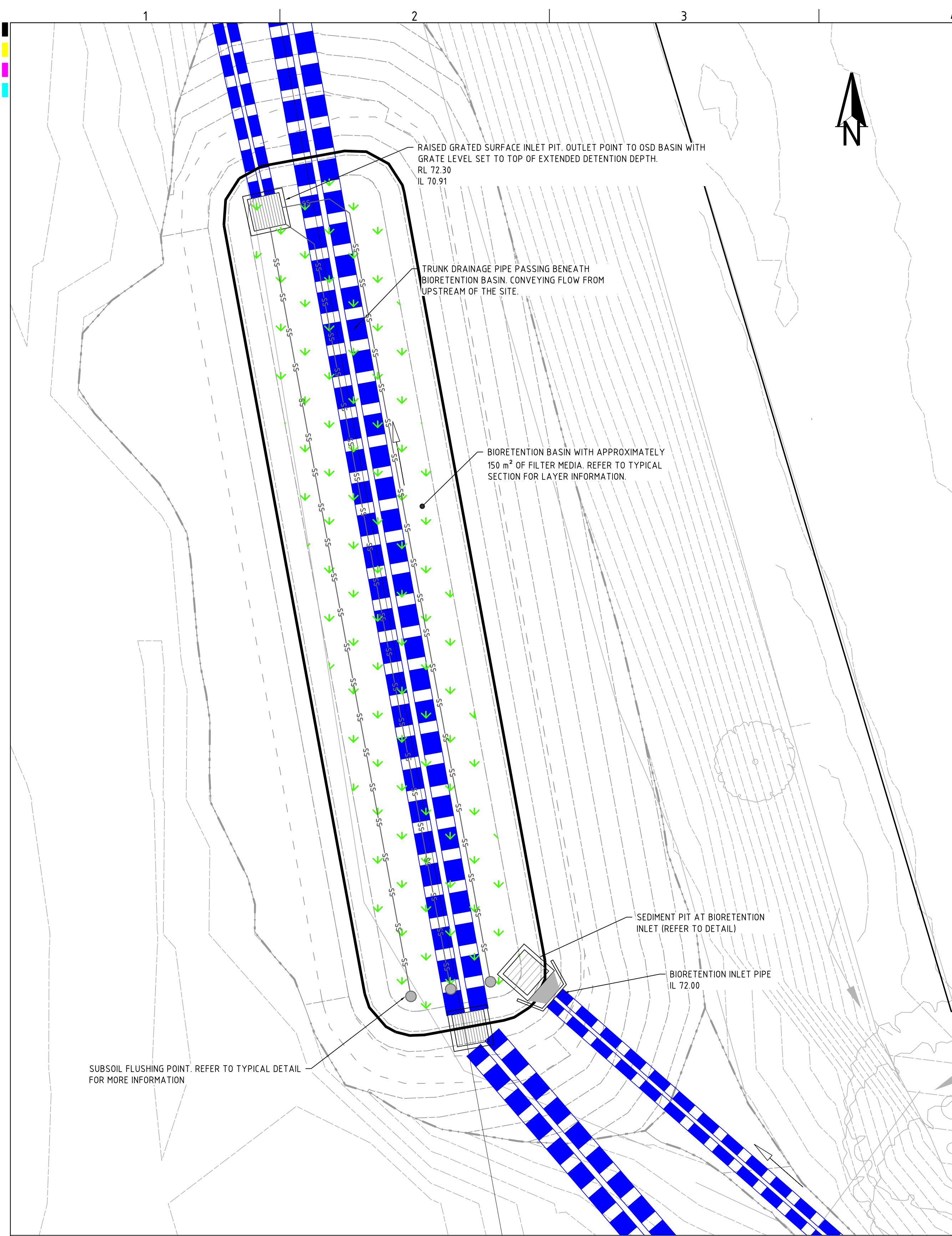
DEVELOPMENT APPLICATION

PRINTED: 11/03/2021 10:00 AM

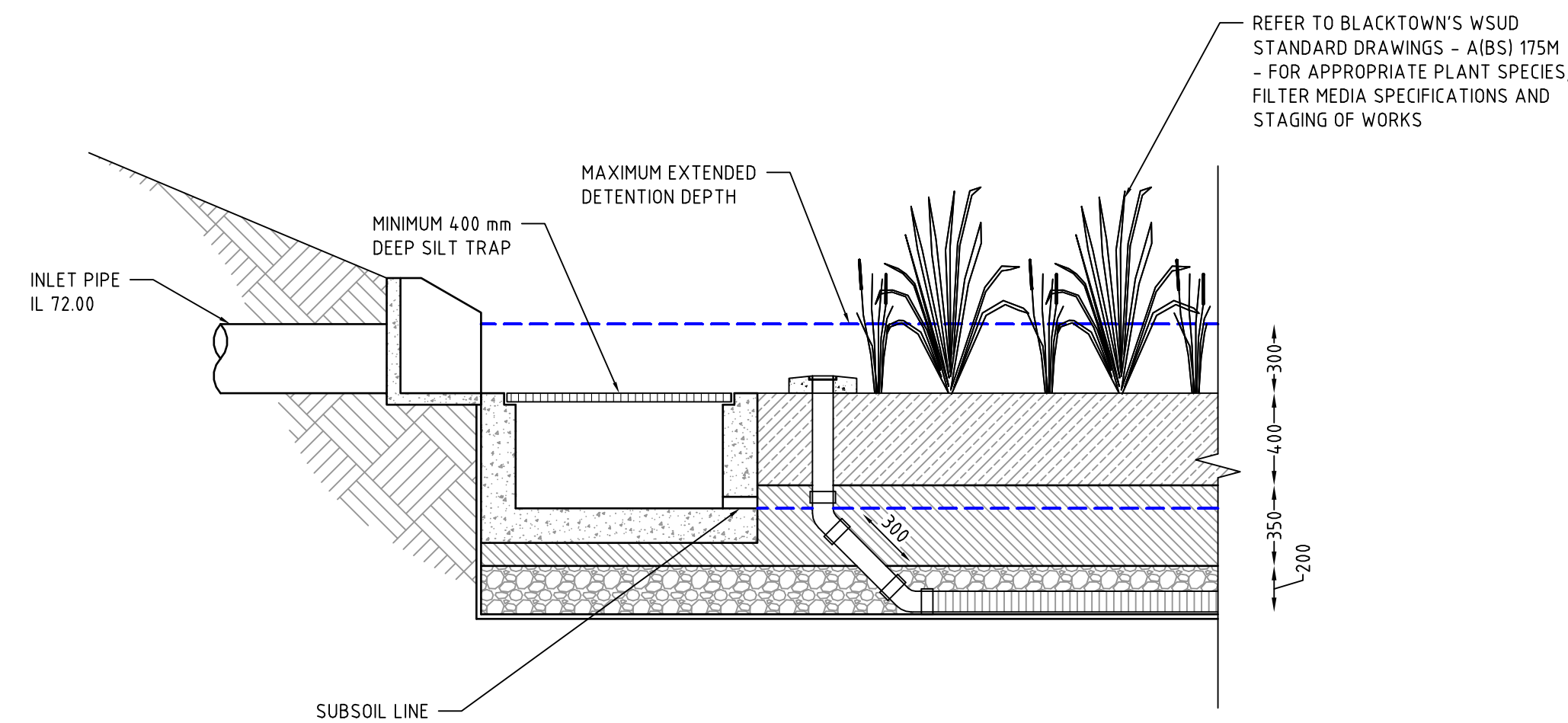
A1 / A3 LANDSCAPE (A1LC_v02.0.01)

DRAWING ID: P2108122-PS01-R03-E200

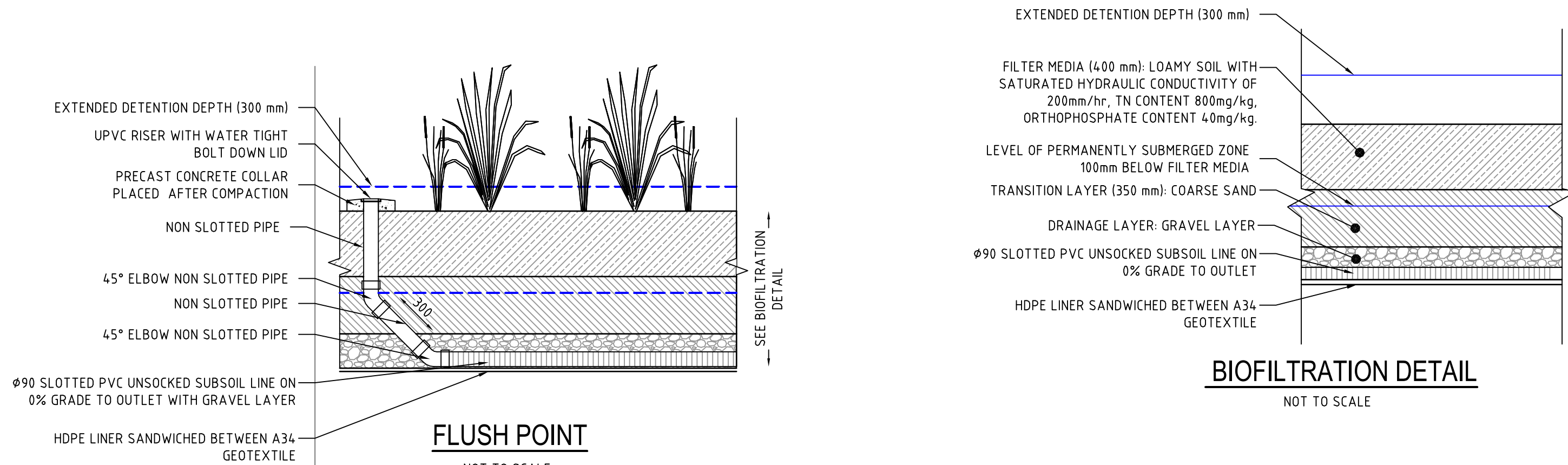
0 10 20 30 40 50 60 70 80 90 100



BIORETENTION BASIN PLAN
SCALE 1:100

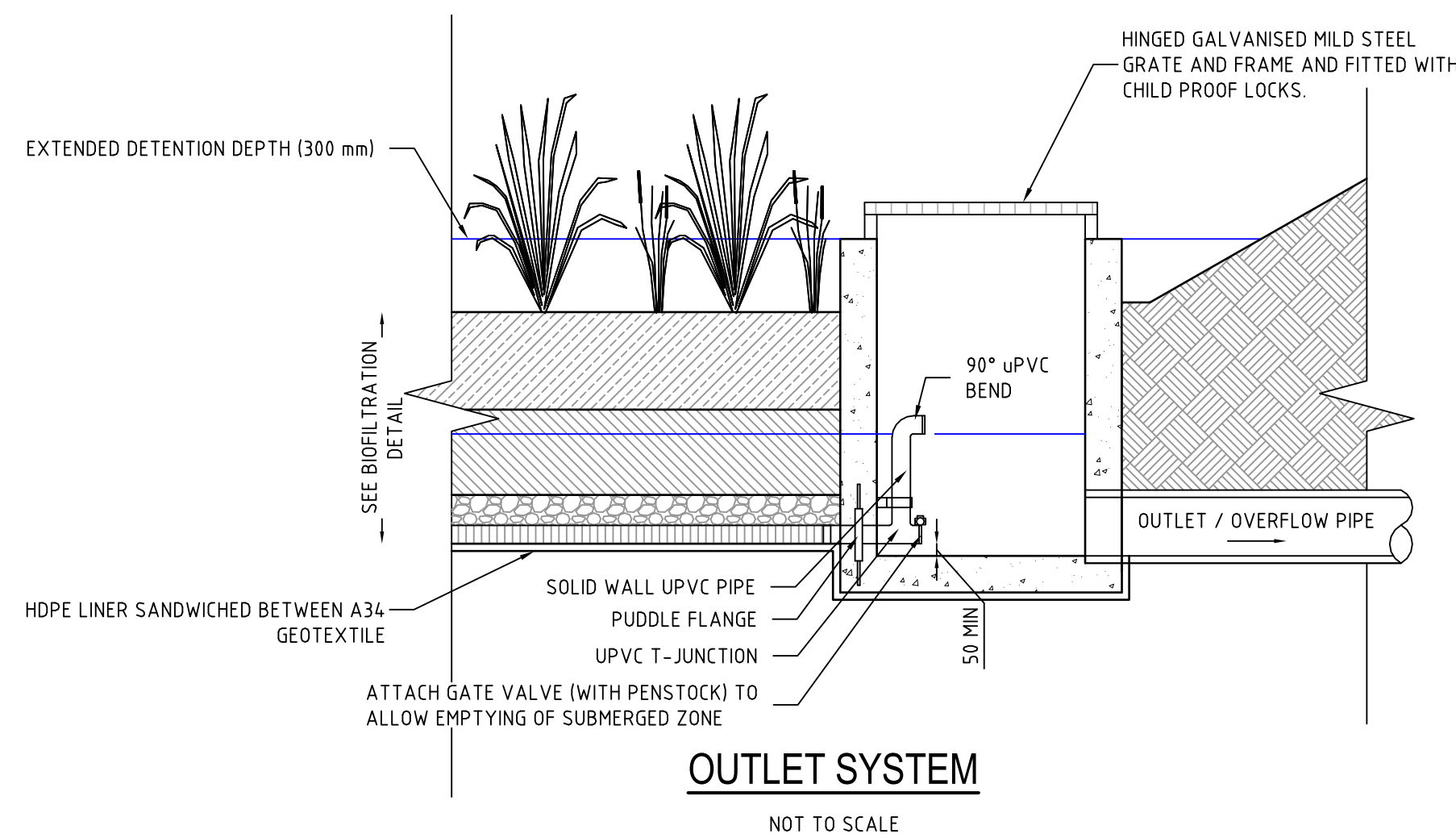


TYPICAL BIORETENTION BASIN PROFILE AND SEDIMENT PIT DETAIL
NOT TO SCALE



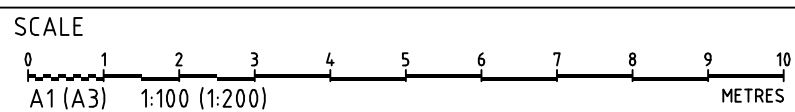
FLUSH POINT
NOT TO SCALE

BIOFILTRATION DETAIL
NOT TO SCALE



OUTLET SYSTEM
NOT TO SCALE

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM



GRID	DATUM	PROJECT MANAGER
MGA	mAHD	GH
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CLIENT	PROJECT NAME/PLANSET TITLE
NEWCASTLE LEGAL AND CONVEYANCING	EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS 50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897



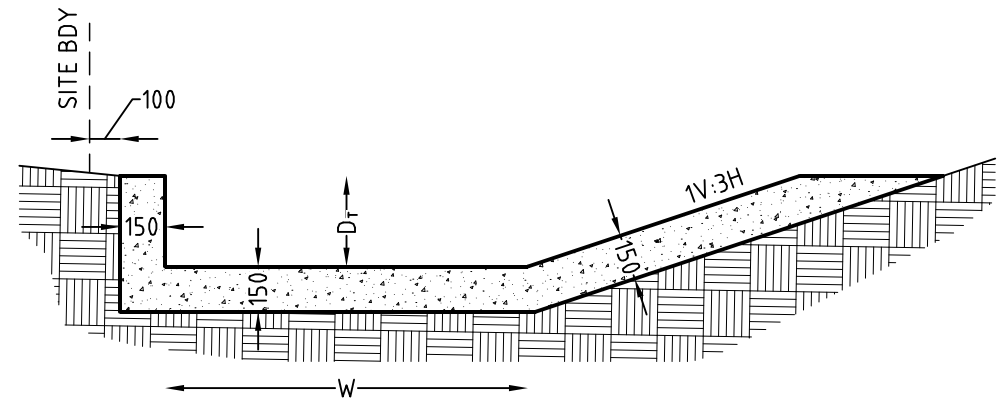
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Consulting Engineers
Environment
Water
Geotechnical
Civil

DEVELOPMENT APPLICATION

DRAWING TITLE				
DRAINAGE DETAILS SHEET 2				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-E201	B

DRAWING ID: P2108122-PS01-R03-E201



SOUTHERN SWALE - TYPICAL SECTION
NOT TO SCALE

SOUTHERN SWALE					
	CHAINAGE	INVERT RL	BOTTOM WIDTH (W)	FLOW DEPTH (D)	CHANNEL DEPTH (D)
EASTERN SIDE OF CULVERT	0	76.281	0.3m	0.23m	0.3
	30	76	0.5m	0.25m	0.6
WESTERN SIDE OF CULVERT	0	76.851	0.3m	0.18m	0.3
	30	76	0.5m	0.18m	0.6

Open Channel Flow Worksheet - Trapezoidal Form

Method based on Mannings equation
Method ST-01 Revised 4.10.2010



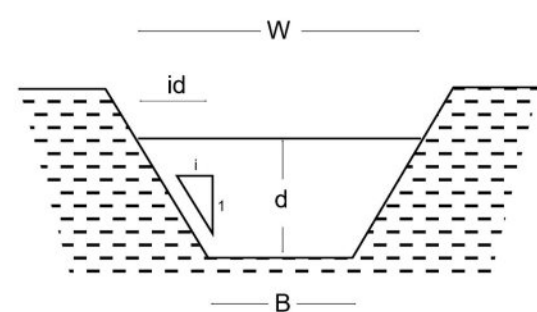
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PROJECT DETAILS

Project	50 Peter Brock Drive, Eastern Drive	Ref. No.	P2108122
Author	Calvin Li	Reviewed	Mr G. Harlow
Date Created	19.07.2021		

STEP 1 : ENTER CHANNEL DATA

FACTOR	Enter Data	Unit
s - Bed Grade	0.040	m/m
Batter grade 1 in	3.000	(i)
B - Base Width	0.000	m
d - Water Depth	0.140	m
n - roughness	0.032	-
Q _d - Design Flow	0.060	m ³ /s



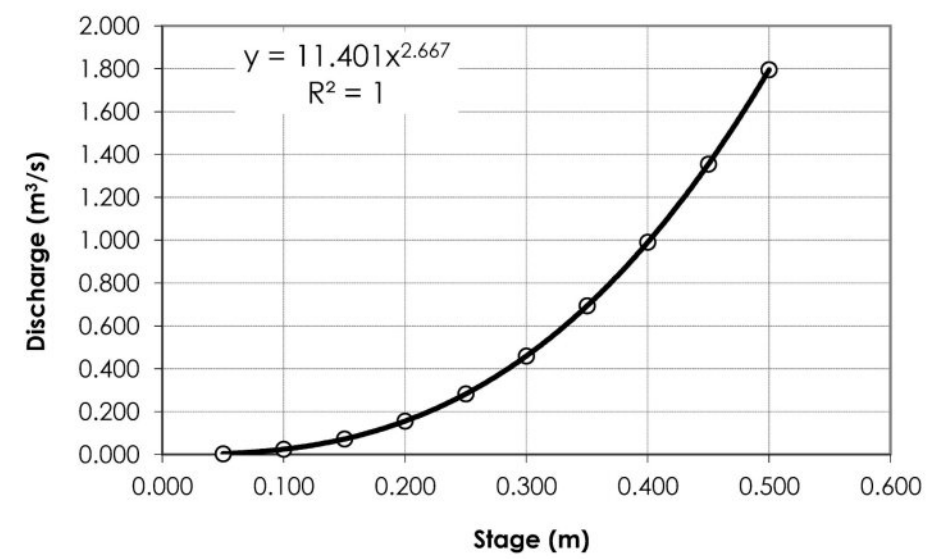
STEP 2 : CALCULATE AND SOLVE DATA

FACTOR	Calculated	Unit
W - Top Flow Width	0.842	m
A - Channel Area	0.059	m ²
P - Wetted Perimeter	0.888	m
R - Hydraulic Radius	0.067	m
V - Velocity	1.026	m/s
Q _a - Calculated Flow	0.061	m ³ /s
Q Difference	0.001	m ³ /s
VD Product	0.144	m ² /s

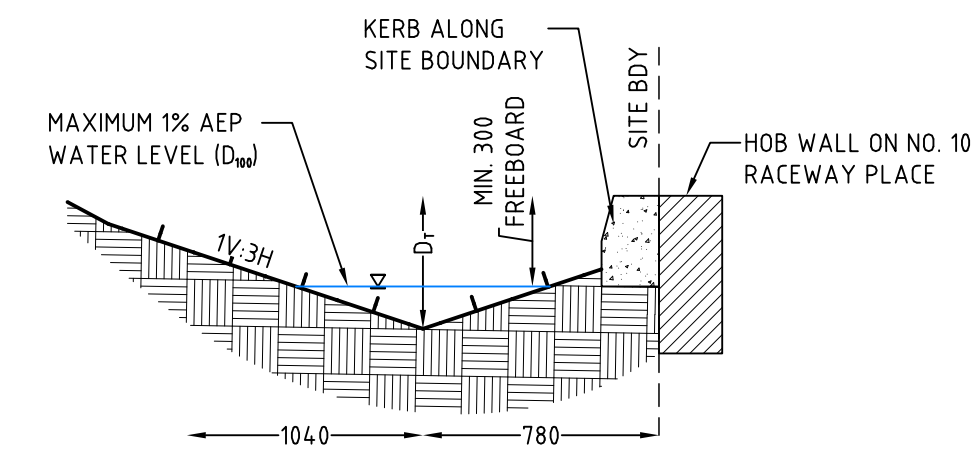
$=(B + 2id)$
 $=(Bd + id^2)$
 $=B + 2(d^2 + (id)^{2.5})^{0.5}$
 $=(A/P)$

STEP 3 : FLOW RATING TABLE

FACTOR	Enter Data	Unit
Maximum Height	0.500	m



EASTERN SWALE CALCULATION



EASTERN SWALE - TYPICAL SECTION
NOT TO SCALE

EASTERN SWALE					
CHAINAGE	INVERT RL	1% AEP RL (D100)	300mm FREEBOARD REQUIREMENT	TOTAL SWALE DEPTH - INCLUDING KERB (DT)	KERB TOP RL ^
0	76.64	76.71	77.01	0.419m	77.059
20	76.222	76.308	76.608	0.538m	76.76
40	75.912	76.038	76.338	0.540m	76.452
60	75.449	75.607	75.907	0.644m	76.093
80	74.408	74.528	74.828	0.513m	74.921
101.235	73.2	73.489	73.789	0.598m	73.798

^ TO MATCH EXISTING FOOTPATH HEIGHT AT 10 RACEWAY CLOSE

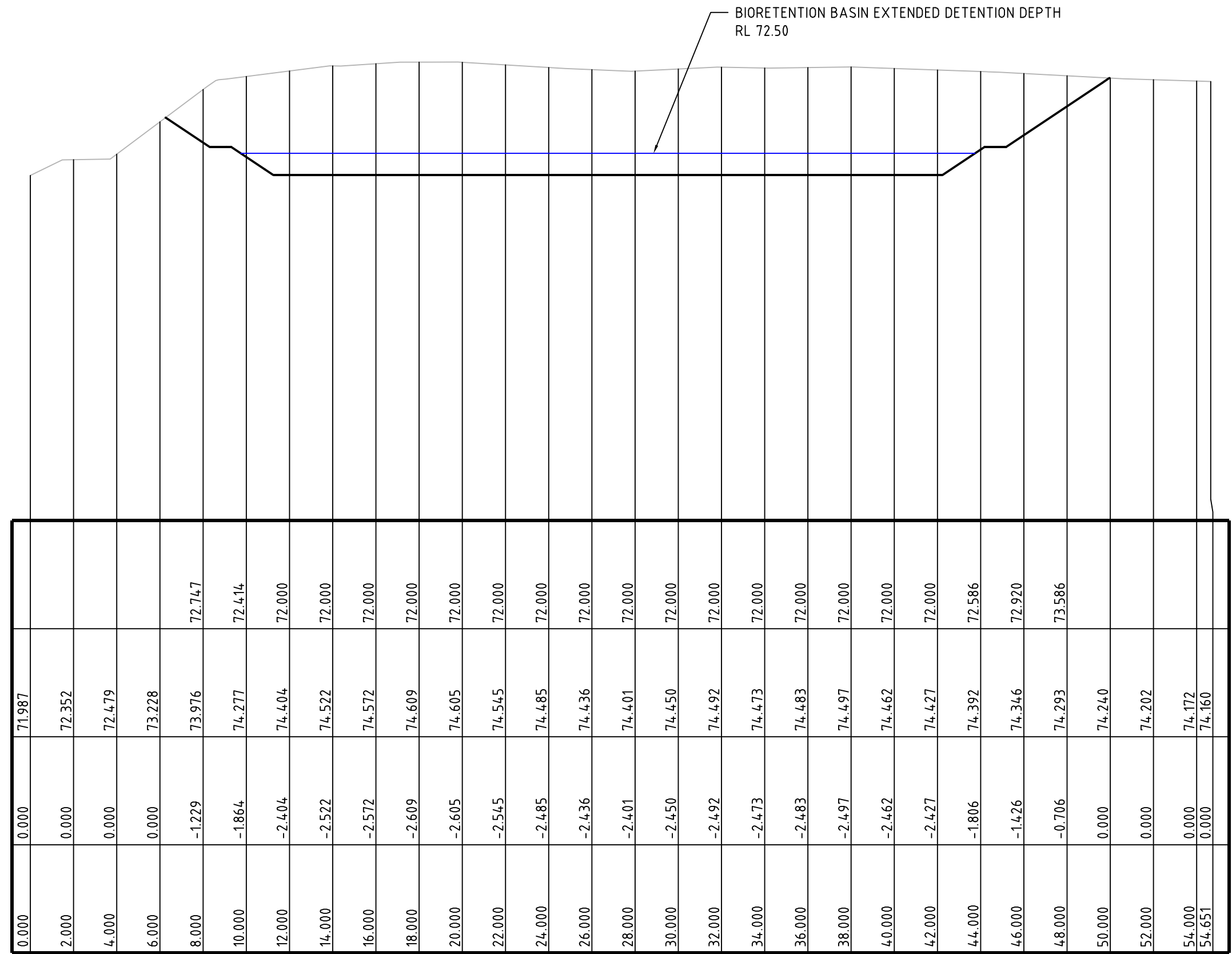
DATUM RL 64.000

DESIGN SURFACE LEVELS

EXISTING SURFACE LEVELS

CUT / FILL DEPTH

CHAINAGE



SECTION B (BIORETENTION)

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:100

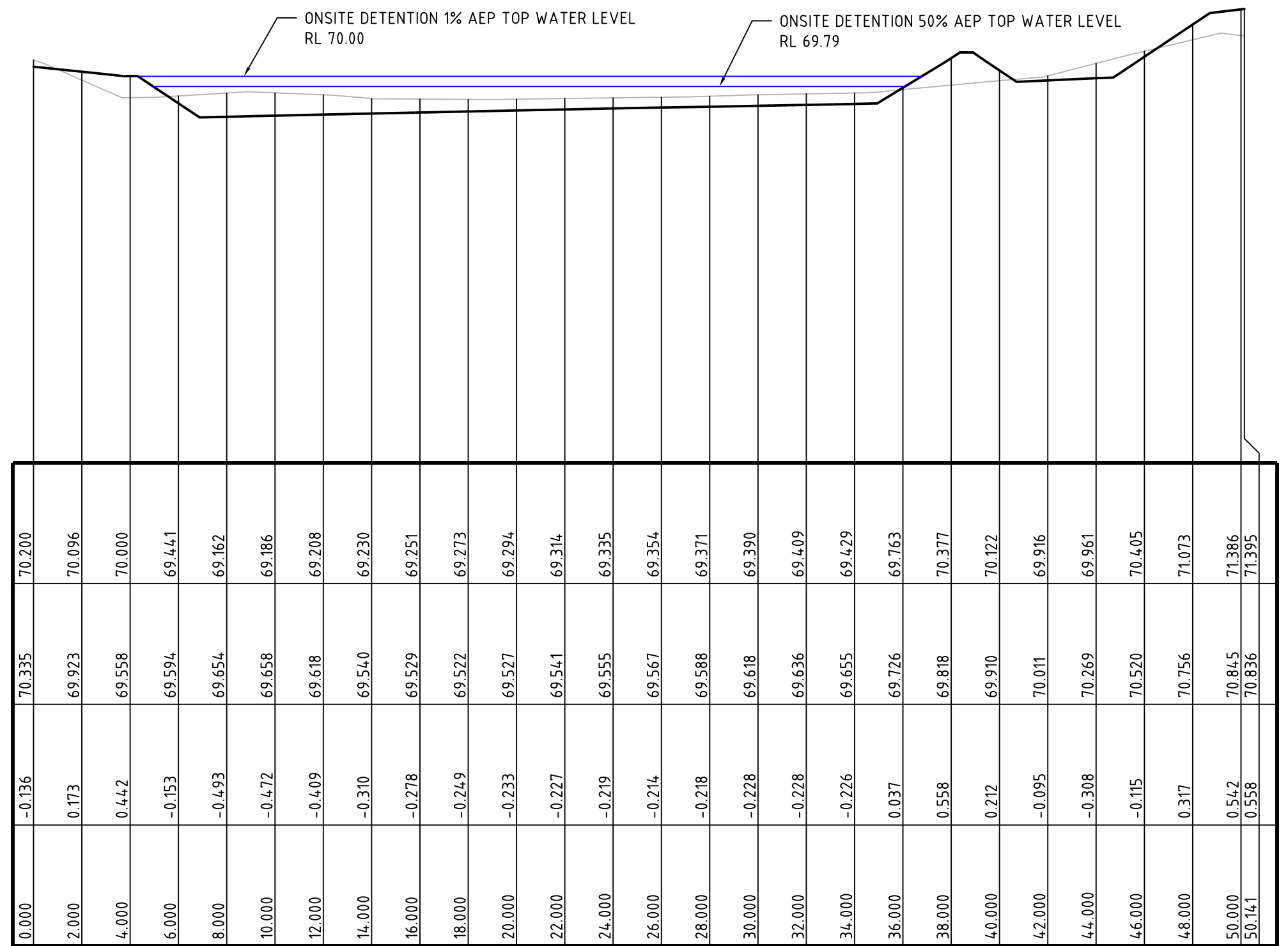
DATUM RL 62.000

DESIGN SURFACE LEVELS

EXISTING SURFACE LEVELS

CUT / FILL DEPTH

CHAINAGE

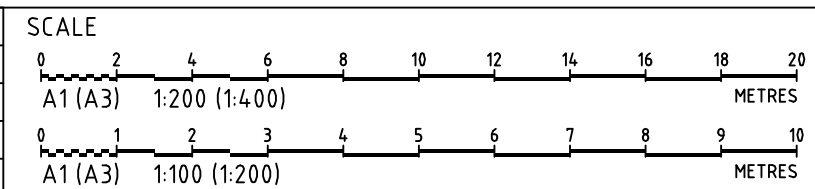


SECTION A (OSD)

SCALE: HORIZONTAL - 1:200
VERTICAL - 1:100

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPROV
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM

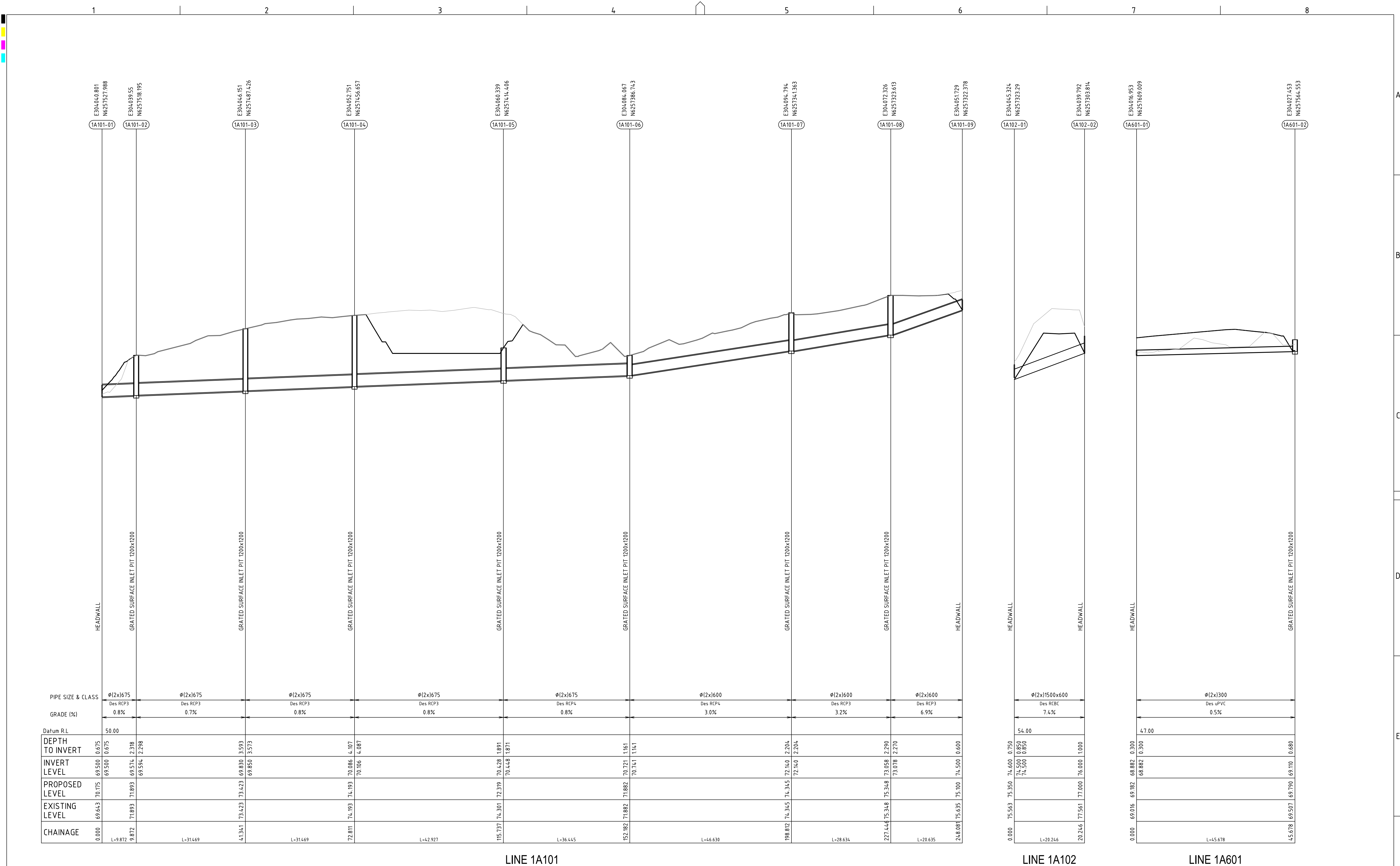






GRID	DATUM	PROJECT MANAGER
MGA	mAHD	GH
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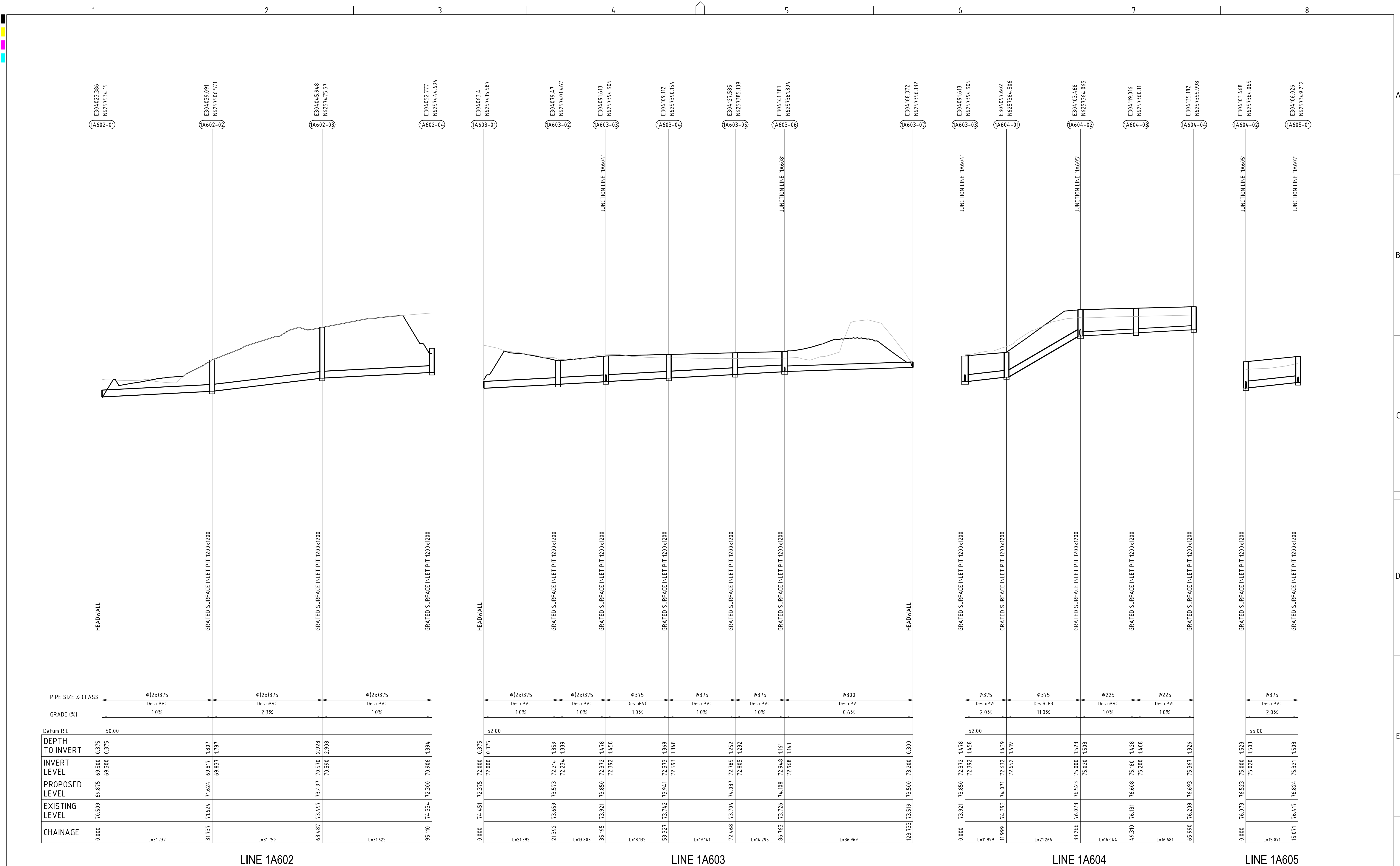
CLIENT	NEWCASTLE LEGAL AND CONVEYANCING
PROJECT NAME/PLANSET TITLE	EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS
	50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897

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DRAWING TITLE DRAINAGE DETAILS SHEET 3				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-E202	B



REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	 <div>Consulting Engineers Environment Water Geotechnical Civil</div>	DRAWING TITLE					
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM		MGA	mAHD	GH	NEWCASTLE LEGAL AND CONVEYANCING		 <div>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au</div>	LONGITUDINAL SECTION SHEET 1				
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM		DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd				PROJECT NAME/PLANSET TITLE EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS 50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897		PROJECT NO. P2108122	PLANSET NO. PS01	RELEASE NO. R03	DRAWING NO. PS01-E300	REVISION B
A1 / A3 LANDSCAPE [A1L_C_v02.0.0]														DRAWING ID: P2108122-PS01-R03-E300				



REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
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A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM

SCALE

A1 (A3) 1:500 (1:1,000)

A1 (A3) 1:100 (1:200)

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	GH	NEWCASTLE LEGAL AND CONVEYANCING

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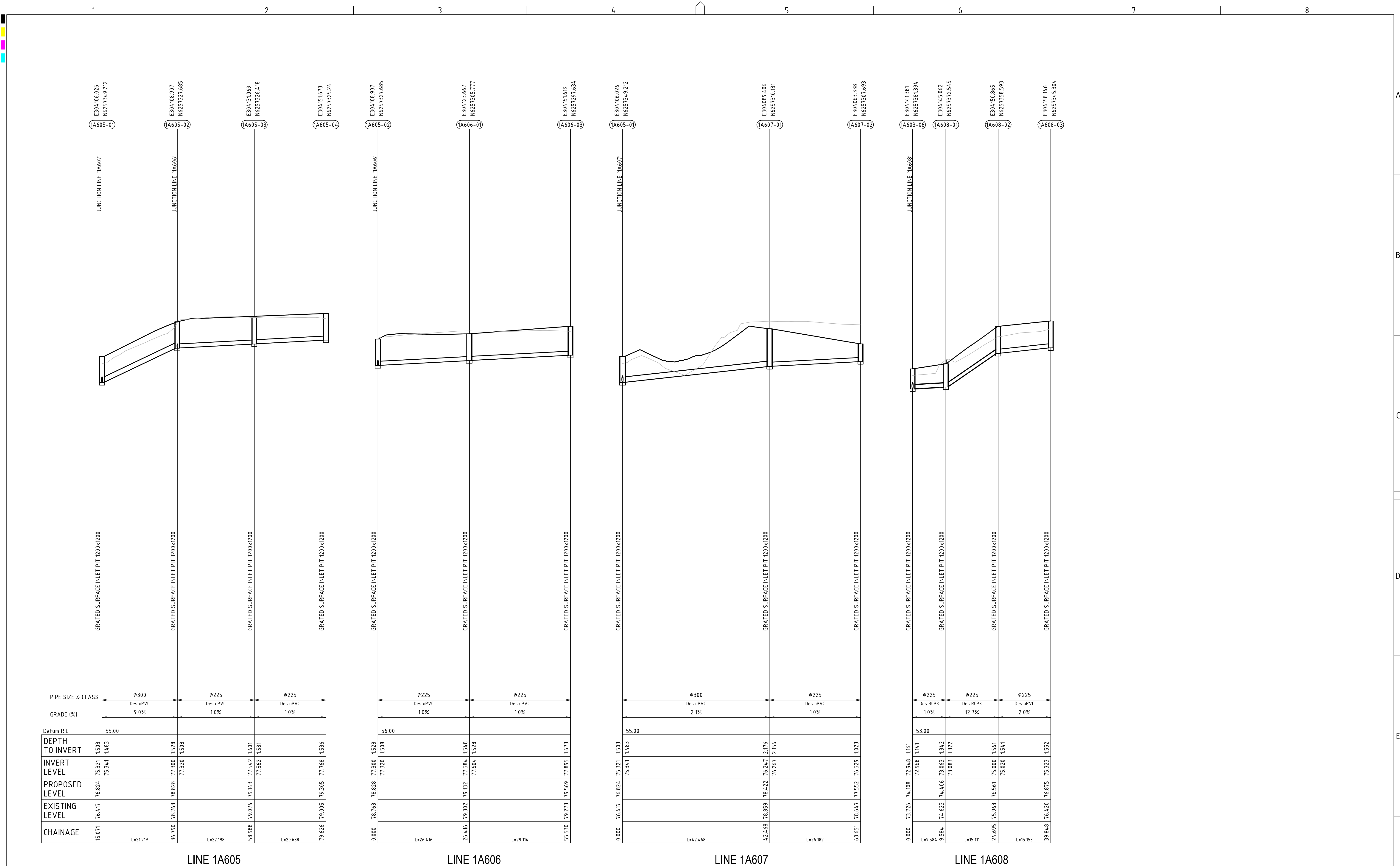
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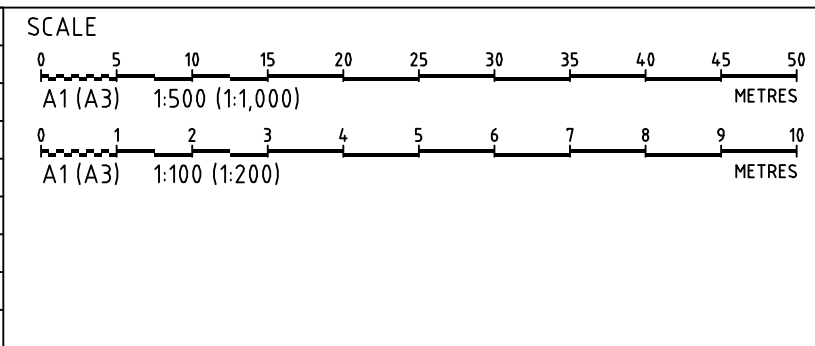
Environment
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Civil

DRAWING TITLE				
LONGITUDINAL SECTION SHEET 2				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-E301	B

DRAWING ID: P2108122-PS01-R03-E301



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GRID
MGA

DATUM
mAHD

PROJECT MANAGER
GH

CLIENT
NEWCASTLE LEGAL AND CONVEYANCING

PROJECT NAME/PLANSET TITLE
EVENT CARPARK WORKS
CONCEPT ENGINEERING WORKS
50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766
LOT 4 DP 1079897

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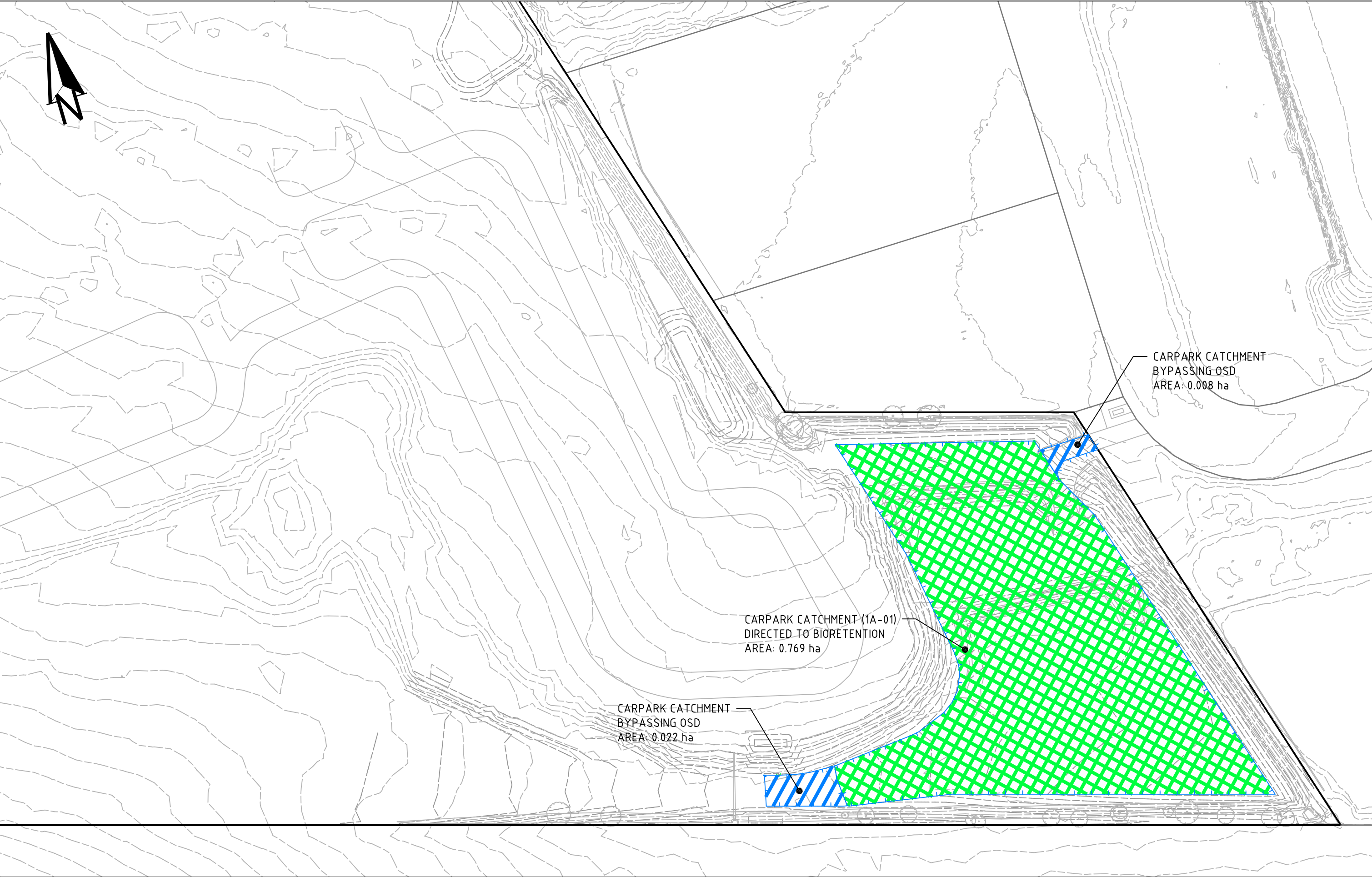


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DRAWING TITLE				
LONGITUDINAL SECTION SHEET 3				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-E302	B

DEVELOPMENT APPLICATION



OSD CATCHMENT PLAN (POST-DEVELOPMENT)
SCALE 1:1000

Project Details:

Project Title

50 Peter Brock Drive, Eastern Creek

Address

Peter Brock Drive

Reference Number

P2108122

General Site Data:

Site Area (m²)

8020 m²

Area Draining to OSD (m²) (Max Bypass 15%)

7634 m²

OSD Location

Above Ground

OSD Discharge Location

Channel or Swale

The preliminary storage requirements below the 50% AEP Weir is 240.6m³ & the storage below the 1% AEP weir is 364.3m³. This requirement will differ if there is a drowned orifice.

Filter Cartridges:

Will filter cartridges be used to manage water quality?

No

Discharge Location Data:

⑤ RL of 50% AEP Orifice Centreline

63.190 m

Number of 50% AEP Orifices

2

⑥ RL of 1% AEP Orifice Centreline

63.220 m

Number of 1% AEP Orifices

2

Is the 1% AEP Water Surface Level in the Channel Known or Assumed

Use an Assumed WSL

⑨ Invert of channel/swale at the point of discharge

66.500

⑩ Top of channel/swale bank at the point of discharge

68

OSD Data:

① Average RL of the base of the OSD Storage Area

63.23

② Length of Emergency Overflow Weir (m)

30.000

③ RL of Emergency Overflow Weir

70.000

The 50% AEP storage volume is 240.60m³. What is the 50% AEP WSL?

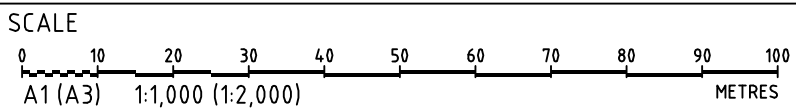
63.730

BLACKTOWN CITY COUNCIL OSD SPREADSHEET INPUTS

Site:	
Address	Peter Brock Drive
Site Area	8020 m ²
Site Area NOT Draining to OSD	326 m ²
Bypass	4%
Reduced Levels (AHD):	
① RL at top Weir	70.175
① Average RL of the base of the OSD Storage Area	63.230
② RL of Emergency Overflow Weir	70.000
RL of 50% AEP Overflow Weir	63.730
⑤ RL of 50% AEP Orifice Center Line	63.190
⑥ RL of 1% AEP Orifice Center Line	63.220
⑨ RL of Invert of Channel at point of discharge	66.500
⑩ RL of Channel Bank at point of discharge	68.000
Minimum RL of Garage Floor	70.175
Minimum RL of Habitable Floor	70.275
OSD Volume:	
Required Storage BELOW the 50% AEP Overflow Weir	240.600
Required Storage BELOW Emergency Overflow Weir	364.310
Discharge Details:	
Using Filter Cartridges to manage Water Quality	No
Discharge Location	Channel/Swale With an Assumed WSL
Length of Emergency Overflow Weir	30.000
Maximum 50% AEP Site Discharge	30.124
Maximum 50% AEP Orifice Discharge	30.124
Maximum 1% AEP Site Discharge	134.124
Maximum 1% AEP Orifice Discharge	134.124
Orifice Details:	
Number of 50% AEP Orifices	2.000
Number of 1% AEP Orifices	2.000
50% AEP Orifice Diameter (mm)	36.000
1% AEP Orifice Diameter (mm)	183.500

BLACKTOWN CITY COUNCIL OSD SPREADSHEET OUTPUTS

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NEWCASTLE LEGAL AND CONVEYANCING	EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS
50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897	

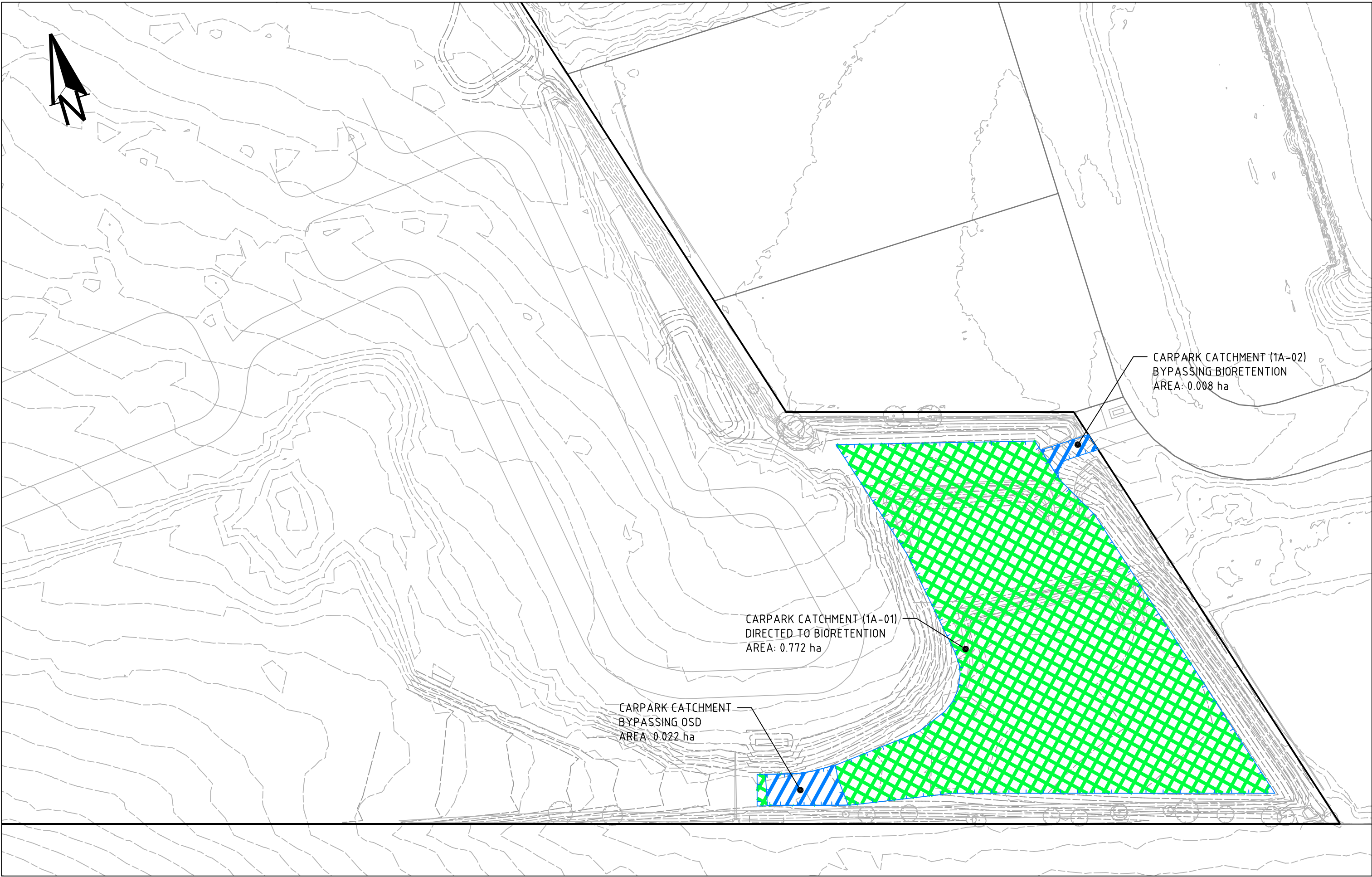


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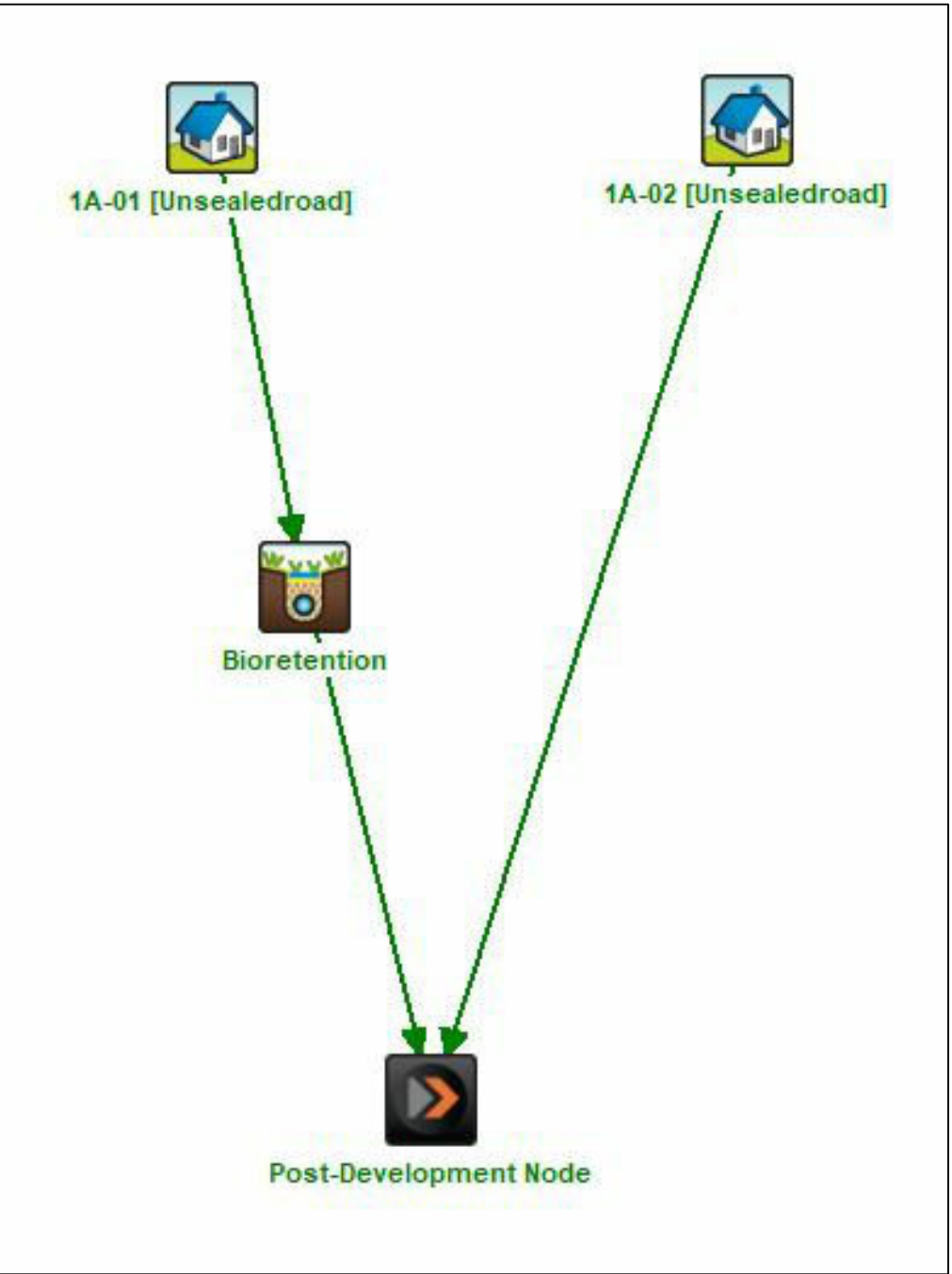
DEVELOPMENT APPLICATION

DRAWING TITLE ON SITE DETENTION CATCHMENT PLAN MODELS & RESULTS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-E600	B



WATER QUALITY CATCHMENT PLAN

SCALE 1:1000



MUSIC MODEL LAYOUT (P2108122MUS01V01)

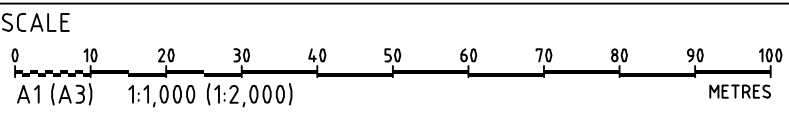
Treatment Train Effectiveness - Post-Development Node			
	Sources	Residual Load	% Reduction
Flow (ML/yr)	5.84	5.34	8.6
Total Suspended Solids (kg/yr)	1090	146	86.6
Total Phosphorus (kg/yr)	1.72	0.523	69.6
Total Nitrogen (kg/yr)	12.7	5.62	55.9
Gross Pollutants (kg/yr)	152	5.72	96.2

TARGET	COMPLIES
85%	Y
65%	Y
45%	Y
90%	Y

MUSIC MODEL RESULTS (P2108122MUS01V01)

DEVELOPMENT APPLICATION

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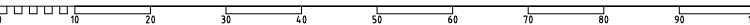
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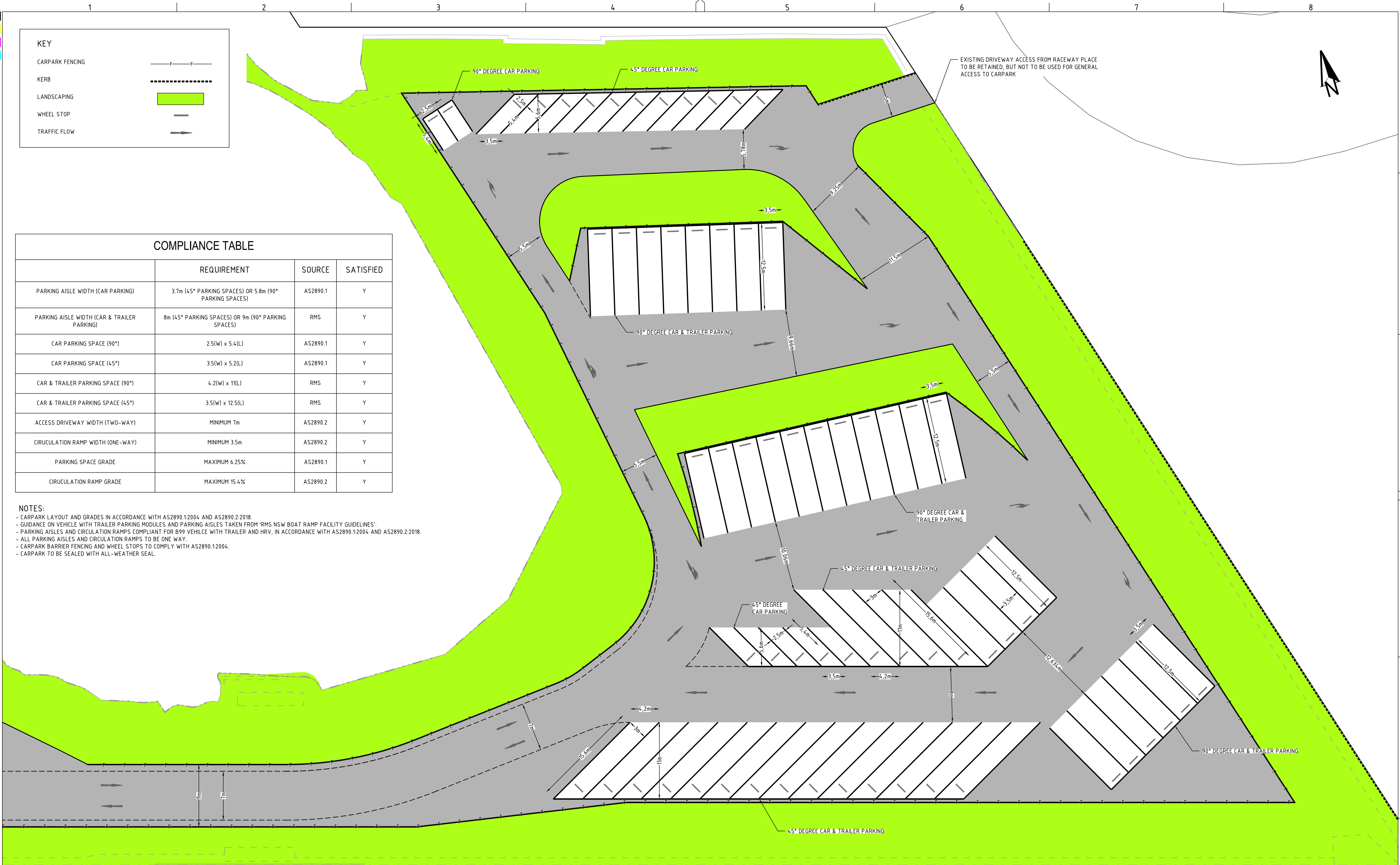
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PROJECT NAME/PLANSET TITLE
EVENT CARPARK WORKS CONCEPT ENGINEERING WORKS
50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766 LOT 4 DP 1079897

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DRAWING TITLE				
WATER QUALITY CATCHMENT PLAN MODELS & RESULTS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-E700	B



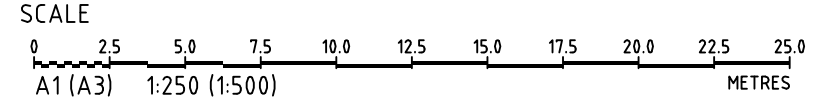


COMPLIANCE TABLE			
	REQUIREMENT	SOURCE	SATISFIED
PARKING AISLE WIDTH (CAR PARKING)	3.7m (45° PARKING SPACES) OR 5.8m (90° PARKING SPACES)	AS2890.1	Y
PARKING AISLE WIDTH (CAR & TRAILER PARKING)	8m (45° PARKING SPACES) OR 9m (90° PARKING SPACES)	RMS	Y
CAR PARKING SPACE (90°)	2.5(W) x 5.4(L)	AS2890.1	Y
CAR PARKING SPACE (45°)	3.5(W) x 5.2(L)	AS2890.1	Y
CAR & TRAILER PARKING SPACE (90°)	4.2(W) x 11(L)	RMS	Y
CAR & TRAILER PARKING SPACE (45°)	3.5(W) x 12.5(L)	RMS	Y
ACCESS DRIVEWAY WIDTH (TWO-WAY)	MINIMUM 7m	AS2890.2	Y
CIRCULATION RAMP WIDTH (ONE-WAY)	MINIMUM 3.5m	AS2890.2	Y
PARKING SPACE GRADE	MAXIMUM 6.25%	AS2890.1	Y
CIRCULATION RAMP GRADE	MAXIMUM 15.4%	AS2890.2	Y

NOTES:
- CARPARK LAYOUT AND GRADES IN ACCORDANCE WITH AS2890.1:2004 AND AS2890.2:2018.
- GUIDANCE ON VEHICLE WITH TRAILER PARKING MODULES AND PARKING AISLES TAKEN FROM 'RMS NSW BOAT RAMP FACILITY GUIDELINES'.
- PARKING AISLES AND CIRCULATION RAMPS COMPLIANT FOR B99 VEHICLE WITH TRAILER AND HRV, IN ACCORDANCE WITH AS2890.1:2004 AND AS2890.2:2018.
- ALL PARKING AISLES AND CIRCULATION RAMPS TO BE ONE WAY.
- CARPARK BARRIER FENCING AND WHEEL STOPS TO COMPLY WITH AS2890.1:2004.
- CARPARK TO BE SEALED WITH ALL-WEATHER SEAL.

DEVELOPMENT APPLICATION

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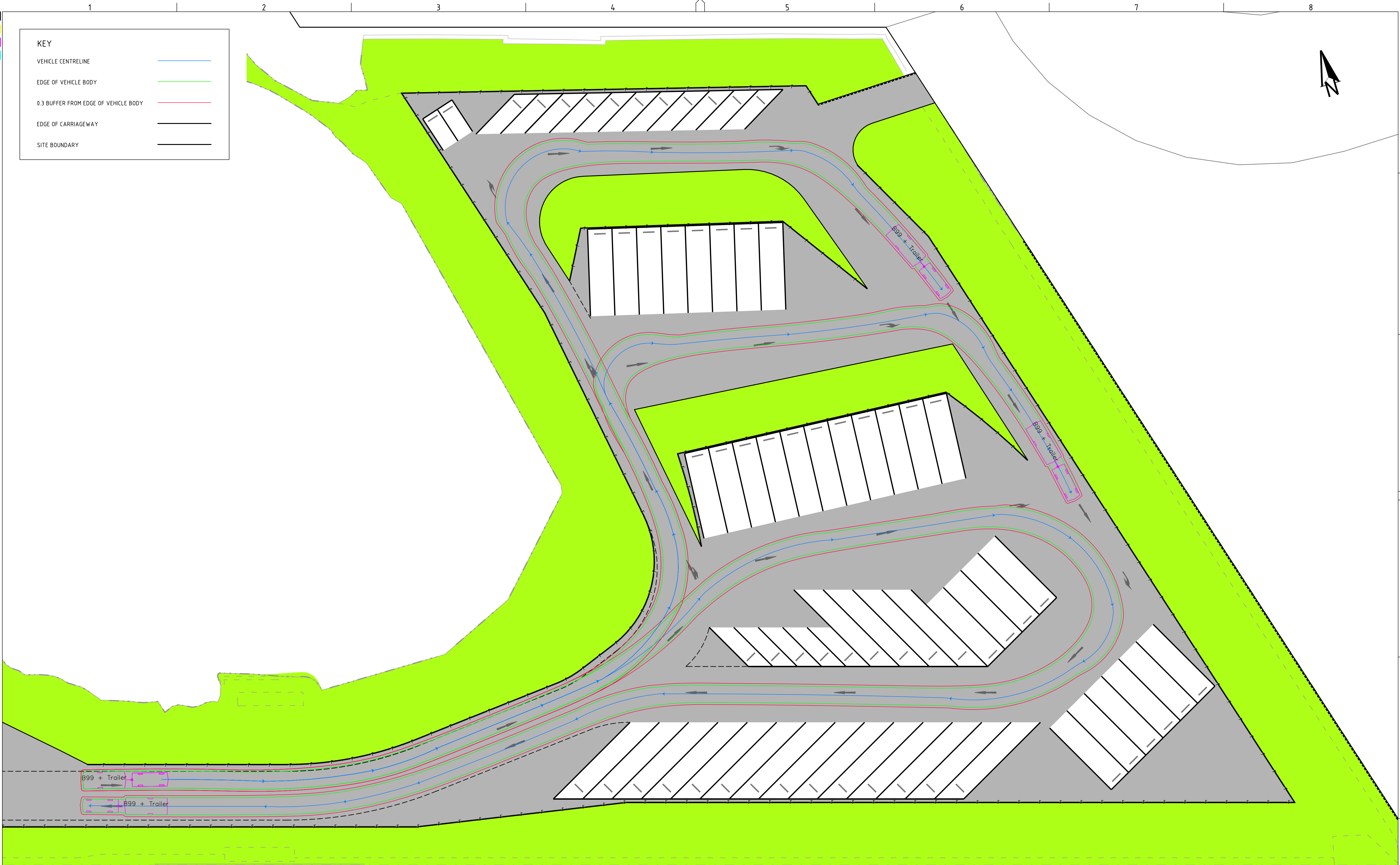
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PROJECT NAME/PLANSET TITLE
EVENT CARPARK WORKS
CONCEPT ENGINEERING WORKS
50 PETER BROCK DRIVE, EASTERN CREEK, NSW 2766
LOT 4 DP 1079897

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DRAWING TITLE				
CARPARK LAYOUT PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-G300	B



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A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

GRID
MGA
DATUM
mAHd
PROJECT MANAGER
GH

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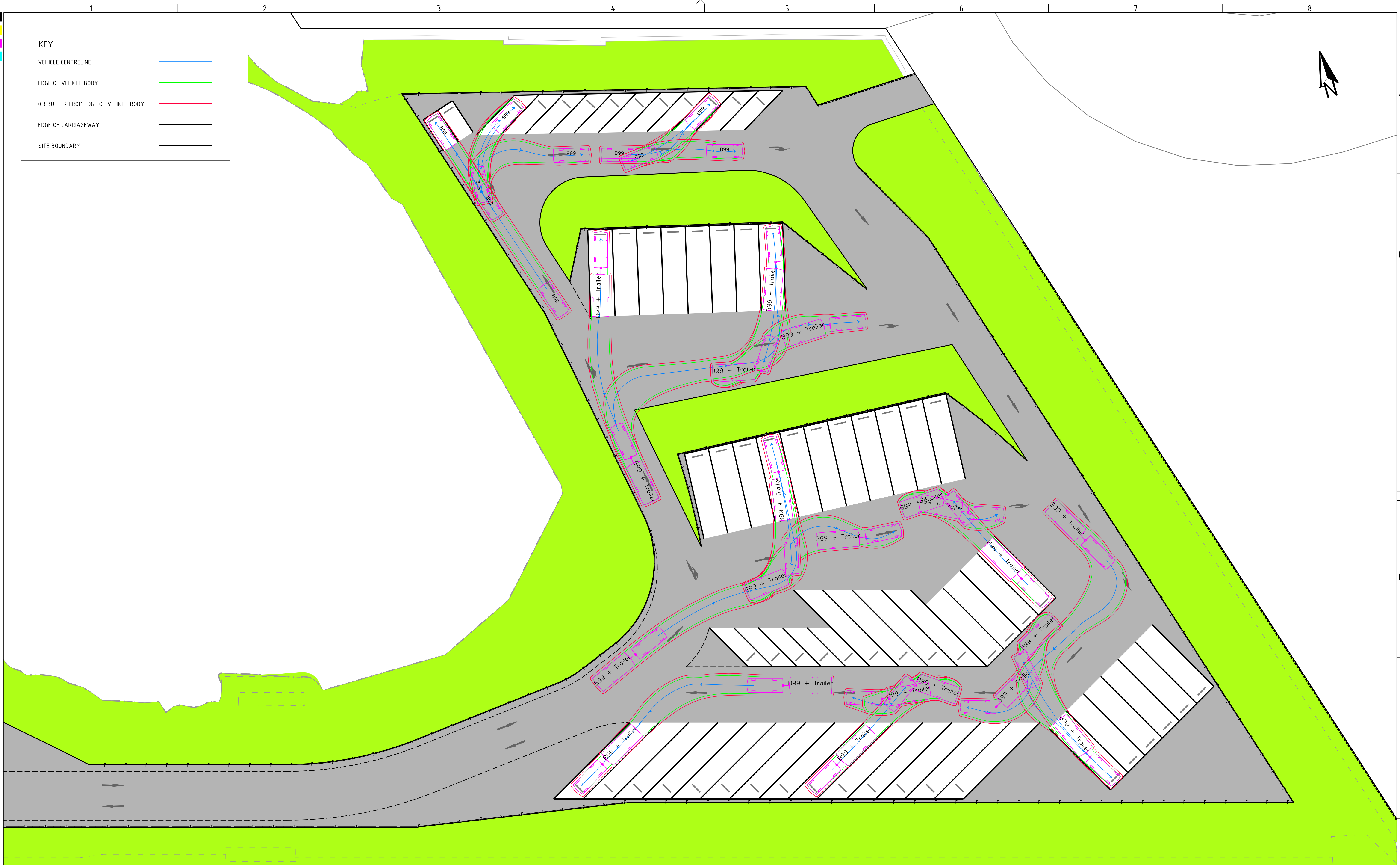
DRAWING TITLE				
CARPARK SWEEP PATH PLAN SHEET 1 B99 VEHICLE & TRAILER CIRCULATION				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-GZ00	B

DEVELOPMENT APPLICATION

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A1 / A3 LANDSCAPE (A1LC_v02.0.01)

DRAWING ID: P2108122-PS01-R03-GZ00



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A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

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CONCEPT ENGINEERING WORKS
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DRAWING TITLE				
CARPARK SWEEP PATH PLAN SHEET 2 B99 VEHICLE & TRAILER PARKING				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P2108122	PS01	R03	PS01-GZ01	B

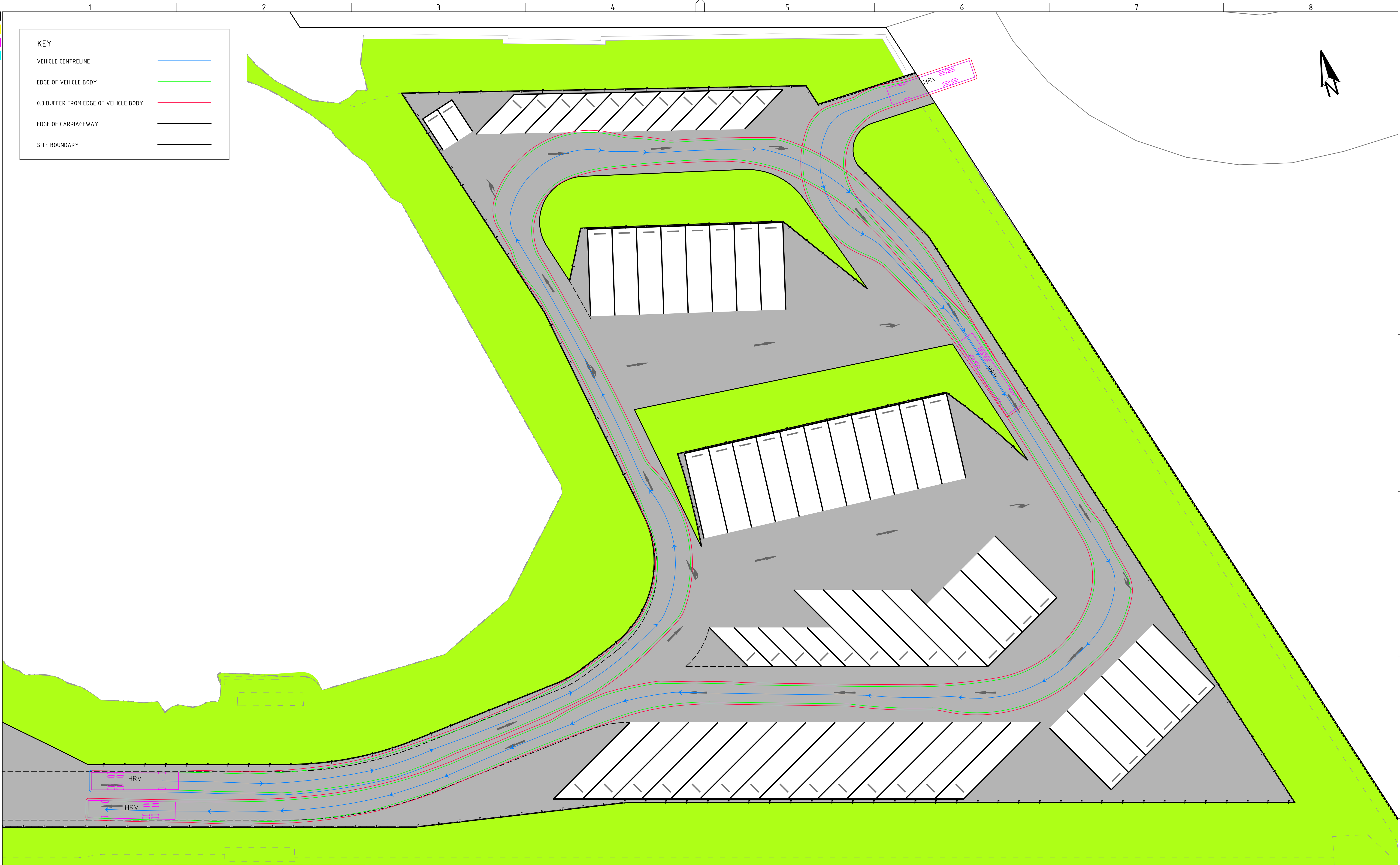
DEVELOPMENT APPLICATION

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A1 / A3 LANDSCAPE (A1LC_v02.0.01)

DRAWING ID: P2108122-PS01-R03-GZ01

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100



REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
B	UPDATED TO ADDRESS DPIE RFI 13.05.21	30/07/2021	JS	AW/MD	GH	DM
A	DPIE RFI 22.12.2020	29/03/2021	JS	AW/AVG	GH	DM

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

GRID
MGA
DATUM
mAHD
PROJECT MANAGER
GH
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DRAWING TITLE				
CARPARK SWEEP PATH PLAN SHEET 3 HRV CIRCULATION				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
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