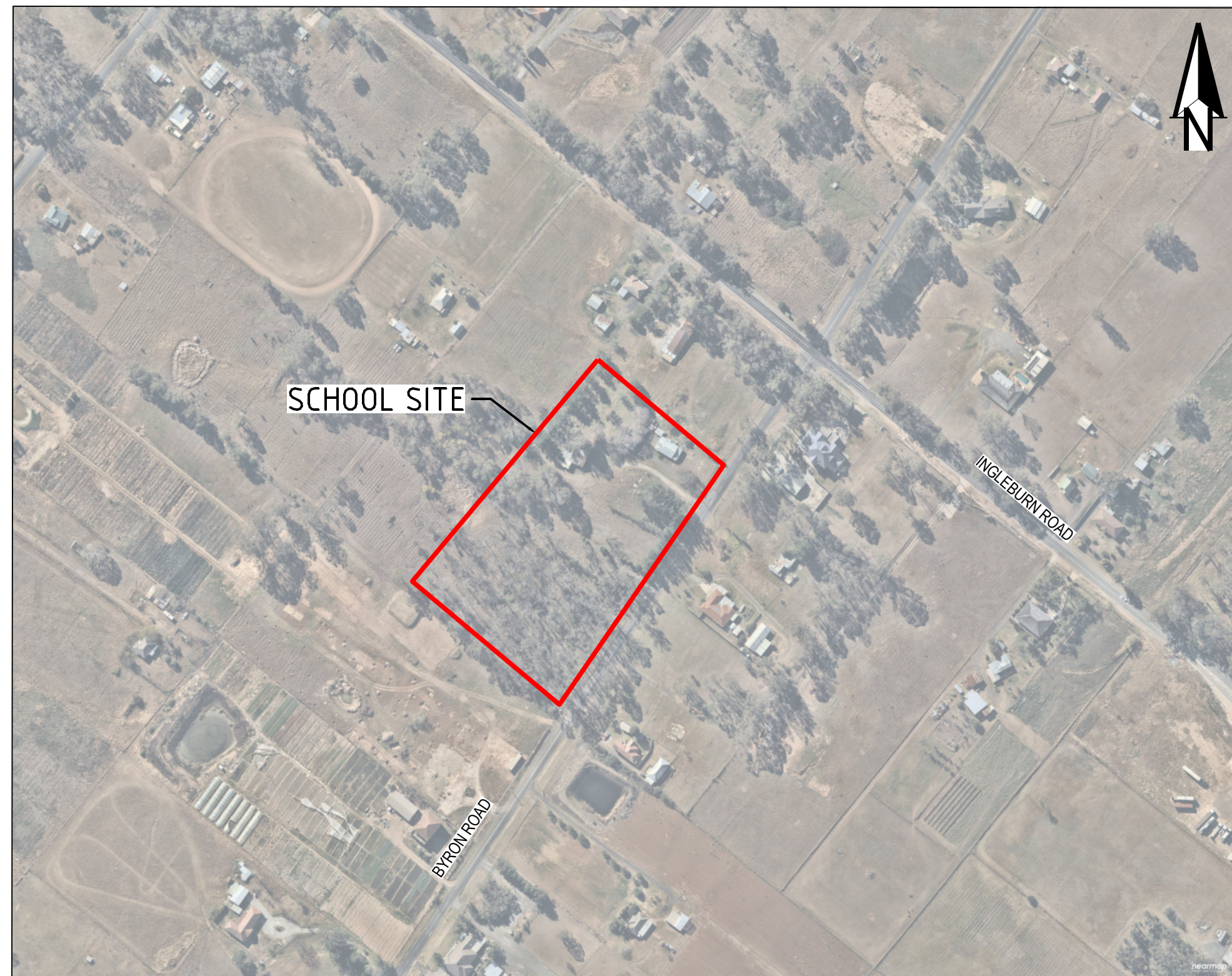


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LOCALITY PLAN
NOT TO SCALE

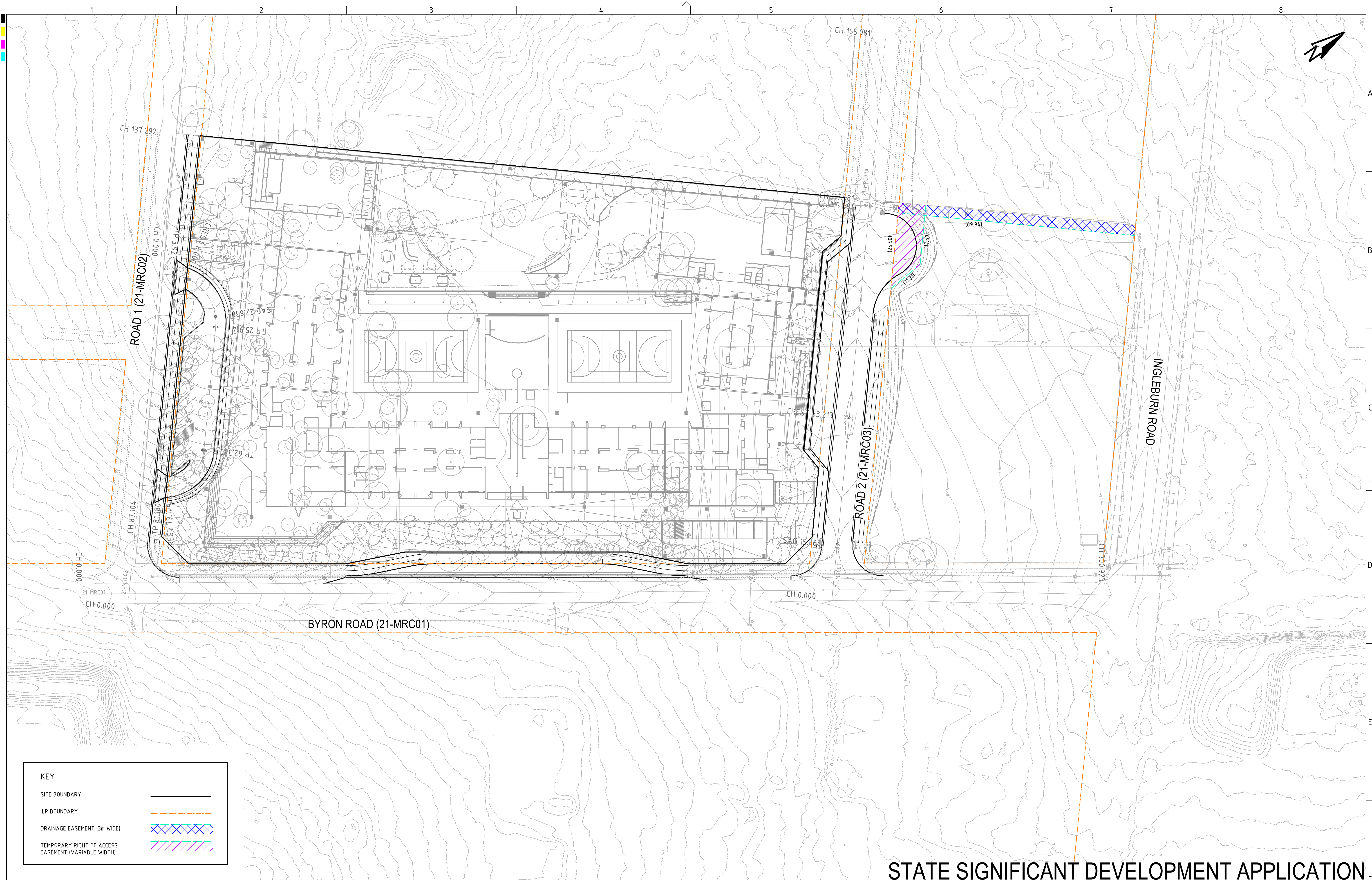
LOT 1 & 2 DP 525996

DRAWING LIST		
DWG NO.	REV	DWG TITLE
GENERAL		
PS01-A000	I	COVER SHEET
PS01-A050	H	DEVELOPMENT OVERVIEW PLAN
CONSTRUCTION MANAGEMENT WORKS		
PS01-B100	H	STAGE 1 OVERVIEW PLAN
PS01-B300	I	SEDIMENT & EROSION CONTROL AND CLEARING PLAN (ULTIMATE DEVELOPMENT)
PS01-B301	G	SEDIMENT & EROSION CONTROL AND CLEARING PLAN (STAGE 1)
PS01-B305	B	SEDIMENT & EROSION CONTROL RUSLE CALCULATION
PS01-B310	C	SEDIMENT & EROSION CONTROL DETAILS SHEET 1
PS01-B311	B	SEDIMENT & EROSION CONTROL DETAILS SHEET 2
EARTHWORKS		
PS01-C100	H	EARTHWORKS GRADING PLAN (ULTIMATE DEVELOPMENT)
PS01-C101	E	EARTHWORKS GRADING PLAN (STAGE 1)
PS01-C500	F	BULK EARTHWORKS CUT-FILL PLAN (ULTIMATE DEVELOPMENT)
PS01-C501	D	BULK EARTHWORKS CUT-FILL PLAN (STAGE 1)
PS01-C600	E	EARTHWORKS SECTION (SHEET 1)
PS01-C601	C	EARTHWORKS SECTION (SHEET 2)
PS01-C602	C	EARTHWORKS SECTION (SHEET 3)
ROADWORKS		
PS01-D100	H	ROADWORKS PLAN (ULTIMATE DEVELOPMENT)
PS01-D101	E	ROADWORKS PLAN (STAGE 1)
PS01-D200	D	CONCEPT FUTURE BYRON ROAD (21-MRC01) LONGITUDINAL & TYPICAL SECTION
PS01-D201	F	ROAD 1 (21-MRC02) & PRIMARY DROP-OFF (21-MSC01) LONGITUDINAL & TYPICAL SECTIONS
PS01-D202	C	ROAD 2 (21-MRC03) & FUTURE ROAD 2 (21-MRC03A) LONGITUDINAL & TYPICAL SECTIONS
PS01-D300	F	ROADWORKS DETAILS PLAN
DRAINAGE WORKS		
PS01-E100	I	DRAINAGE PLAN (ULTIMATE DEVELOPMENT)
PS01-E101	F	DRAINAGE PLAN (STAGE 1)
PS01-E110	B	BASEMENT FLOOR PLAN (ULTIMATE DEVELOPMENT)
PS01-E200	G	OSD AND DRAINAGE DETAILS
PS01-E300	F	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1)
PS01-E301	F	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2)
PS01-E302	F	DRAINAGE LONGITUDINAL SECTIONS (SHEET 3)
PS01-E303	E	DRAINAGE LONGITUDINAL SECTIONS (SHEET 4)
PS01-E304	F	DRAINAGE LONGITUDINAL SECTIONS (SHEET 5) & PIT SCHEDULE
PS01-E310	B	DRAINAGE LONGITUDINAL SECTIONS (SHEET 6) & PIT SCHEDULE
PS01-E610	H	POST-DEVELOPMENT OSD CATCHMENT PLAN, MODEL LAYOUT AND RESULT (ULTIMATE STAGE)
PS01-E611	F	POST-DEVELOPMENT OSD CATCHMENT PLAN, MODEL LAYOUT AND RESULT (STAGE 1)
PS01-E700	G	PRE-DEVELOPMENT MUSIC CATCHMENT PLAN, MODEL LAYOUT AND RESULT
PS01-E710	H	POST-DEVELOPMENT MUSIC CATCHMENT PLAN, MODEL LAYOUT AND RESULT (ULTIMATE STAGE)
PS01-E711	E	MUSIC CATCHMENT PLAN, MODEL LAYOUT AND RESULT (STAGE 1)
FINAL CIVIL WORKS		
PS01-G400	F	PAVEMENT PLAN AND DETAILS (ULTIMATE DEVELOPMENT)
PS01-G401	D	PAVEMENT PLAN AND DETAILS (STAGE 1)

GENERAL NOTES:

- 1 THIS PLAN IS FOR DEVELOPMENT APPLICATION PURPOSE AND NOT FOR CONSTRUCTION. DESIGN TO BE REVIEWED AND UPDATED FOR CONSTRUCTION CERTIFICATE.
- 2 WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH, AND THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT AUSTRALIAN STANDARDS, COUNCIL SPECIFICATIONS, AND ALL PROJECT CONSULTANT'S PLANS AND REPORTS.
- 3 SURVEY INFORMATION SHOWN BASED ON SURVEY INFORMATION PROVIDED BY TOTAL SURVEYING SOLUTION SURVEYORS.
- 4 LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- 5 FINAL SURFACE CONTOURS ARE BASED ON PROPOSED AND EXISTING SURFACE.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div><div>Consulting Engineers</div><div>Environment Water Geotechnical Civil</div></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>
I	DESIGN UPDATE	24/04/2020	JL	AVG/EZ	TH	TH		---	---	TH	AMITY COLLEGE	
H	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH					PROJECT NAME/PLANSET TITLE AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN 63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996	
G	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH						
F	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH						
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH						
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH						
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG							
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG								
A1 / A3 LANDSCAPE (A1LC_V52.0.0)								DISCLAIMER & COPYRIGHT				
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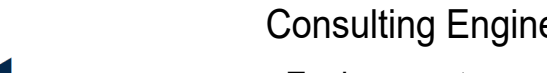
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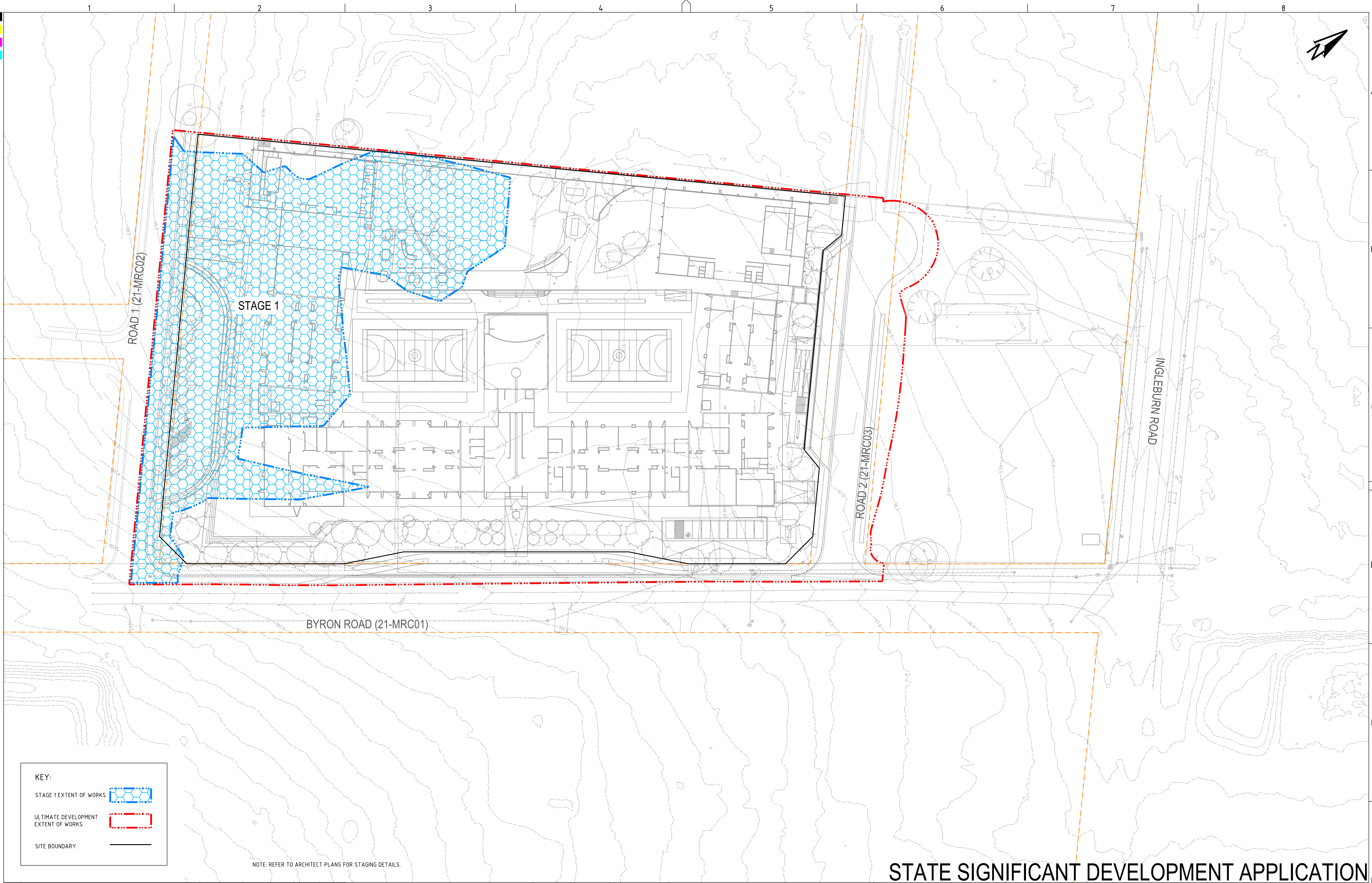
SITE BOUNDARY

ILP BOUNDARY

DRAINAGE EASEMENT (3m WIDE)

TEMPORARY RIGHT OF ACCESS EASEMENT (VARIABLE WIDTH)

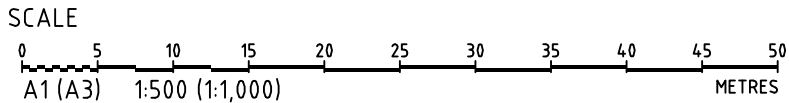
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H	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH		MGA	mAHD	TH	AMITY COLLEGE	DEVELOPMENT OVERVIEW PLAN			
G	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH		DISCLAIMER & COPYRIGHT		PROJECT NAME/PLANSET TITLE		 <div>Consulting Engineers Environment Water 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>			
F	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH		This plan must not be used for construction unless signed as approved by principal certifying authority.		AMITY COLLEGE LEPPINGTON CAMPUS					
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH		All measurements in millimetres unless otherwise specified.		CIVIL WORKS PLAN					
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH		This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd.		63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996					
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG			(C) Copyright Martens & Associates Pty Ltd							
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG											
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH										
A1 / A3 LANDSCAPE (A1L1_002.0.01)							DRAWING ID: P18064.93-PS01-R11-A050								



- KEY:
- STAGE 1 EXTENT OF WORKS
 - ULTIMATE DEVELOPMENT EXTENT OF WORKS
 - SITE BOUNDARY

NOTE: REFER TO ARCHITECT PLANS FOR STAGING DETAILS.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
H	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
G	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
F	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG		
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171
LOT 1 & 2 DP 525996



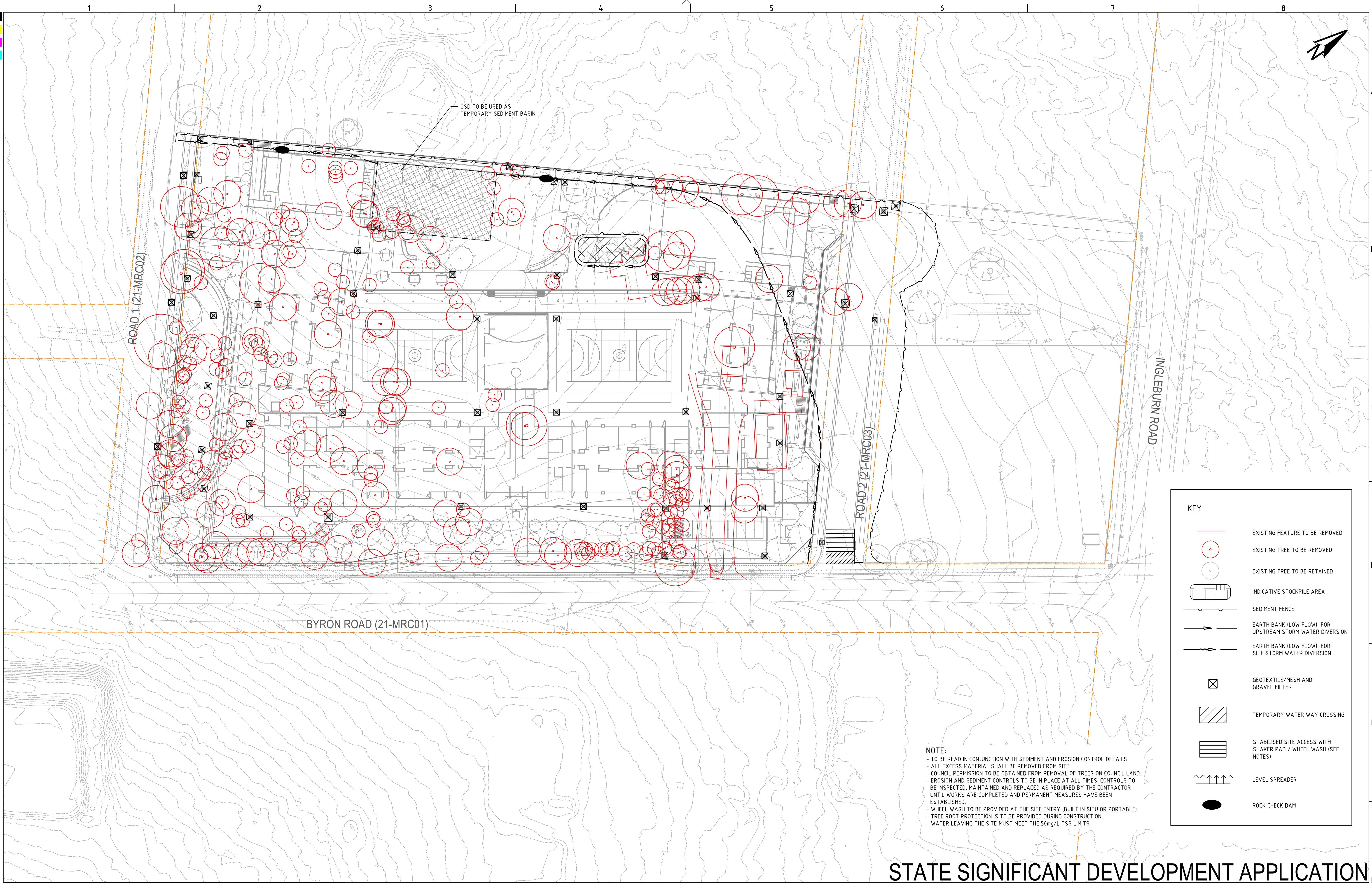
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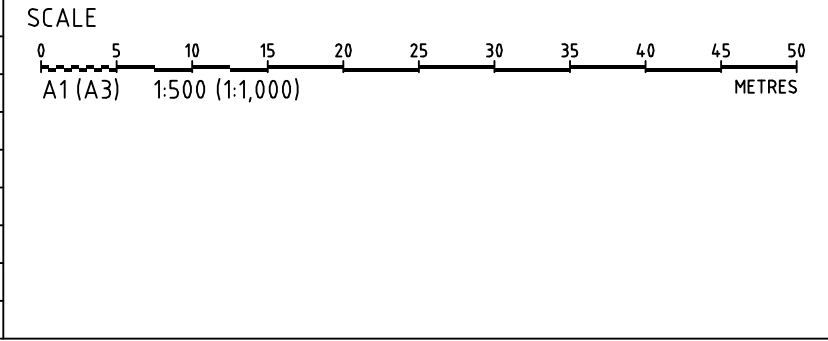
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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
STAGE 1 OVERVIEW PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-B100	H

STATE SIGNIFICANT DEVELOPMENT APPLICATION



REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
I	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
H	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
G	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
F	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
E	AMENDED FORM REVISED ARCHITECTURAL PLANS	11/07/2019	GM	CG/PD	CG/PD	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	ADDED DRAWING	17/04/2019	HS	HS	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG		



GRID
MGA

DATUM
mAHD

PROJECT MANAGER
TH

CLIENT
AMITY COLLEGE

PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS
CIVIL WORKS PLAN

63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171
LOT 1 & 2 DP 525996

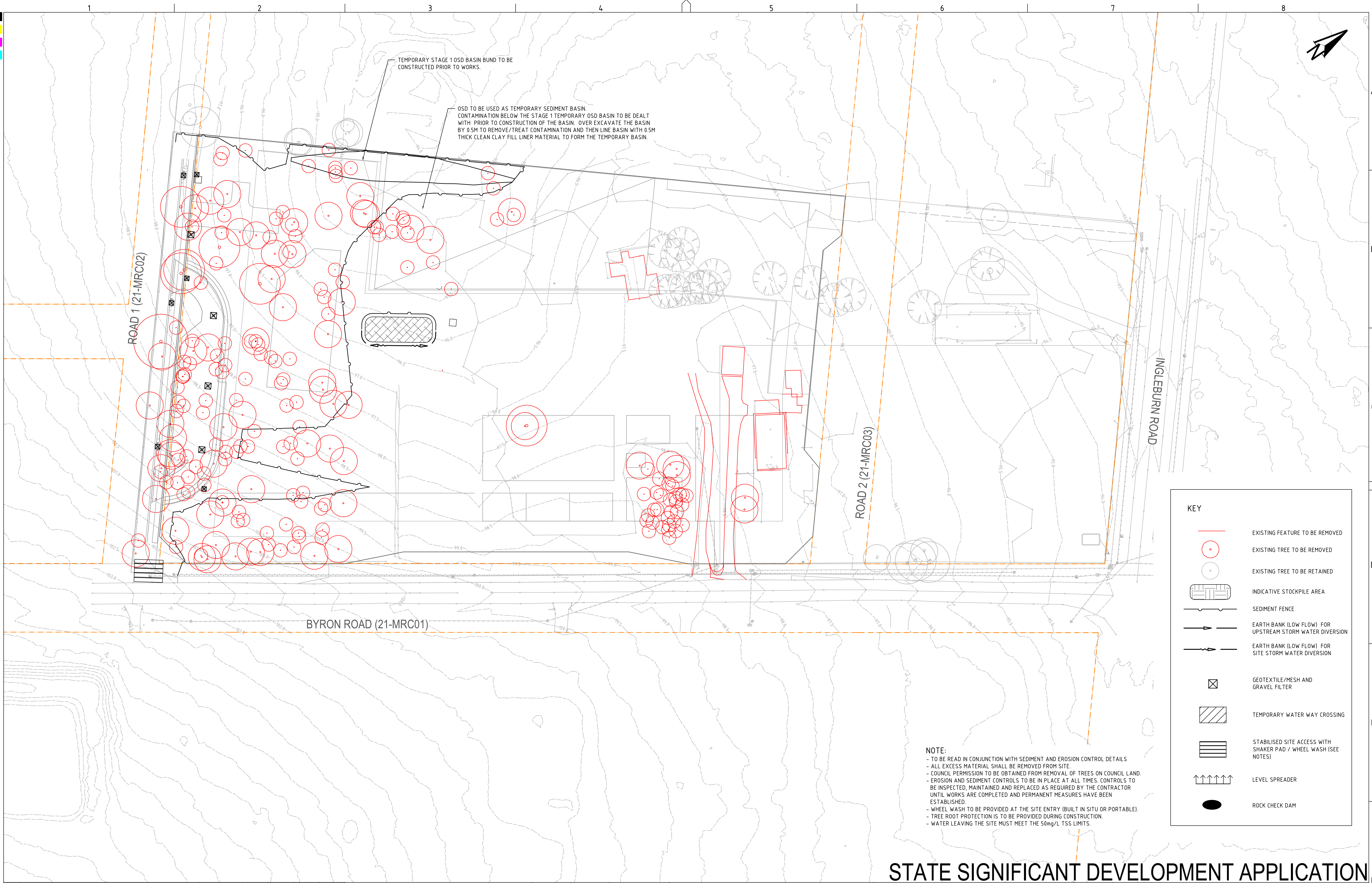
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DRAWING TITLE				
SEDIMENT & EROSION CONTROL AND CLEARING PLAN (ULTIMATE DEVELOPMENT)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-B300	I



TEMPORARY STAGE 1 OSD BASIN BUND TO BE CONSTRUCTED PRIOR TO WORKS.

OSD TO BE USED AS TEMPORARY SEDIMENT BASIN. CONTAMINATION BELOW THE STAGE 1 TEMPORARY OSD BASIN TO BE DEALT WITH PRIOR TO CONSTRUCTION OF THE BASIN. OVER EXCAVATE THE BASIN BY 0.5M TO REMOVE/TREAT CONTAMINATION AND THEN LINE BASIN WITH 0.5M THICK CLEAN CLAY FILL LINER MATERIAL TO FORM THE TEMPORARY BASIN.

KEY

EXISTING FEATURE TO BE REMOVED

EXISTING TREE TO BE REMOVED

EXISTING TREE TO BE RETAINED

INDICATIVE STOCKPILE AREA

SEDIMENT FENCE

EARTH BANK (LOW FLOW) FOR UPSTREAM STORM WATER DIVERSION

EARTH BANK (LOW FLOW) FOR SITE STORM WATER DIVERSION

GEOTEXTILE/MESH AND GRAVEL FILTER

TEMPORARY WATER WAY CROSSING

STABILISED SITE ACCESS WITH SHAKER PAD / WHEEL WASH (SEE NOTES)

LEVEL SPREADER

ROCK CHECK DAM

NOTE:

- TO BE READ IN CONJUNCTION WITH SEDIMENT AND EROSION CONTROL DETAILS
- ALL EXCESS MATERIAL SHALL BE REMOVED FROM SITE.
- COUNCIL PERMISSION TO BE OBTAINED FROM REMOVAL OF TREES ON COUNCIL LAND.
- EROSION AND SEDIMENT CONTROLS TO BE IN PLACE AT ALL TIMES. CONTROLS TO BE INSPECTED, MAINTAINED AND REPLACED AS REQUIRED BY THE CONTRACTOR UNTIL WORKS ARE COMPLETED AND PERMANENT MEASURES HAVE BEEN ESTABLISHED.
- WHEEL WASH TO BE PROVIDED AT THE SITE ENTRY (BUILT IN SITU OR PORTABLE).
- TREE ROOT PROTECTION IS TO BE PROVIDED DURING CONSTRUCTION.
- WATER LEAVING THE SITE MUST MEET THE 50mg/L TSS LIMITS.

STATE SIGNIFICANT DEVELOPMENT APPLICATION

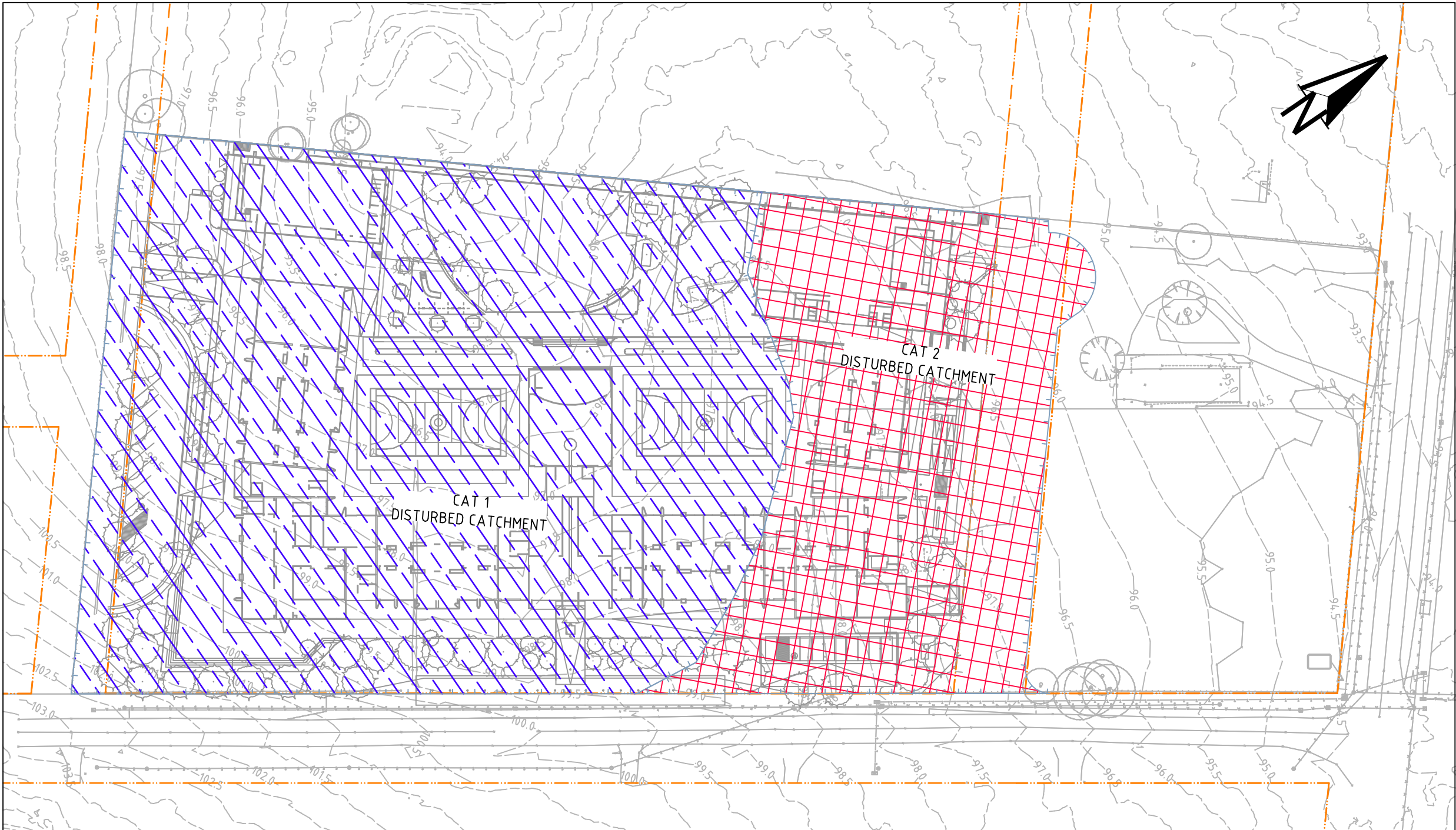
REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE			
G	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH		MGA	mAHD	TH	AMITY COLLEGE	 Consulting Engineers Environment Water Geotechnical Civil Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au	SEDIMENT & EROSION CONTROL AND CLEARING PLAN (STAGE 1)		
F	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH		<div>DISCLAIMER & COPYRIGHT</div> <div>This plan must not be used for construction unless signed as approved by principal certifying authority.</div> <div>All measurements in millimetres unless otherwise specified.</div> <div>This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd.</div> <div>(C) Copyright Martens & Associates Pty Ltd</div>	PROJECT NAME/PLANSET TITLE				AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN		
E	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH									
D	MINOR AMENDMENT	12/07/2019	GM	CG/PD	CG/PD	TH									
C	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH									
B	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH									
A	ADDED DRAWING	17/04/2019	HS	HS	CG/DG			63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996							
AT / A3 LANDSCAPE [A1L_C_v02.0.01]							DRAWING ID: P18064.93-PS01-R11-B301								

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A1 / A3 LANDSCAPE (A1LC_v02.0.01)

DRAWING ID: P18064.93-PS01-R11-B301

0 5 10 15 20 25 30 35 40 45 50 METRES



Note: These "Detailed Calculation" spreadsheets relate only to high erosion hazard lands as identified in figure 4.6 or where the designer chooses to use the RUSLE to size sediment basins. The "Standard Calculation" spreadsheets should be used on low erosion hazard lands as identified by figure 4.6 and where the designer chooses not to run the RUSLE in calculations.

1. Site Data Sheet

Site Name: P1806493

Site Location: 63 Ingleburn Road & 85 Byron Road, Leppington, NSW

Precinct: N/A

Description of Site: Blacktown (bt) - Penrith Soil Landscape

Site area	Site					Remarks
Total catchment area (ha)	CAT 1	CAT 2				
Disturbed catchment area (ha)	1.77	0.73				

Soil analysis						
% sand (fraction 0.02 to 2.00 mm)	5	5				Soil texture should be assessed through mechanical dispersion only. Dispersing agents (e.g. Calgon) should not be used
% silt (fraction 0.002 to 0.02 mm)	30	30				
% clay (fraction finer than 0.002 mm)	65	65				
Dispersion percentage	15.0	15.0				E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	12	12				See Section 6.3.3(e)
Soil Texture Group	D	D				See Section 6.3.3(c), (d) and (e)

Rainfall data						
Design rainfall depth (days)	6	6				See Sections 6.3.4 (d) and (e)
Design rainfall depth (percentile)	75	75				See Sections 6.3.4 (f) and (g)
x-day, y-percentile rainfall event	21.84	21.84				See Section 6.3.4 (h)
Rainfall intensity: 2-year, 6-hour storm	9.7	9.7				See IFD chart for the site

RUSLE Factors						
Rainfall erosivity (R-factor)	2100	2100	0	0	0	Automatic calculation from above data
Soil erodibility (K-factor)	0.038	0.038				
Slope length (m)	140	130				
Slope gradient (%)	5.5	3				RUSLE data can be obtained from Appendices A, B and C
Length/gradient (LS-factor)	1.84	0.81				
Erosion control practice (P-factor)	1.3	1.3				
Ground cover (C-factor)	1	1				

Calculations						
Soil loss (t/ha/yr)	191	84				
Soil Loss Class	2	1				See Section 4.4.2(b)
Soil loss (m ³ /ha/yr)	147	65				
Soil loss (m ³ /yr)	260	47				Noted Cat 2 does not require sedimentation basin due to Soil Loss per year < 150 m ³ /yr
Sediment basin storage volume, m ³	44	8				See Sections 6.3.4(i) and 6.3.5 (e)

2. Storm Flow Calculations

Peak flow is given by the Rational Formula:

$$Q_y = 0.00278 \times C_{10} \times F_y \times I_{y,tc} \times A$$

where: Q_y is peak flow rate (m³/sec) of average recurrence interval (ARI) of "y" years
 C_{10} is the runoff coefficient (dimensionless) for ARI of 10 years. Rural runoff coefficients are given in Volume 2, figure 5 of Pilgrim (1998), while urban runoff coefficients are given in Volume 1, Book VIII, figure 1.13 of Pilgrim (1998) and construction runoff coefficients are given in Appendix F
 F_y is a frequency factor for "y" years. Rural values are given in Volume 1, Book IV, Table 1.1 of Pilgrim (1998) while urban coefficients are given in Volume 1, Book VIII, Table 1.6 of Pilgrim (1998)
 A is the catchment area in hectares (ha)
 $I_{y,tc}$ is the average rainfall intensity (mm/hr) for an ARI of "y" years and a design duration of "tc" (minutes or hours)

$$\text{Time of concentration (t}_c\text{)} = 0.76 \times (A/100)^{0.38} \text{ hrs (Volume 1, Book IV of Pilgrim, 1998)}$$

Note: For urban catchments the time of concentration should be determined by more precise calculations or reduced by a factor of 50 per cent.

Peak flow calculations, 1

Site	A (ha)	tc (mins)	Rainfall intensity, I, mm/hr						C ₁₀
			1 _{yr,tc}	5 _{yr,tc}	10 _{yr,tc}	20 _{yr,tc}	50 _{yr,tc}	100 _{yr,tc}	
CAT 1	1.77	10	58.5	98.4	109	125.5	146	162.4	0.83

Peak flow calculations, 2

ARI (yrs)	Frequency factor (F _y)	Peak flows						Comment
		CAT 1 (m ³ /s)	(m ³ /s)	(m ³ /s)	(m ³ /s)	(m ³ /s)	(m ³ /s)	
1 yr,tc	0.8	0.191						
5 yr,tc	0.95	0.374						
10 yr,tc	1	0.445						
20 yr,tc	1.05	0.538						
50 yr,tc	1.15	0.686						
100 yr,tc	1.2	0.796						

4. Volume of Sediment Basins, Type D and Type F Soils

$$\text{Basin volume} = \text{settling zone volume} + \text{sediment storage zone volume}$$

Settling Zone Volume

The settling zone volume for Type F and Type D soils is calculated to provide capacity to contain all runoff expected from up to the y-percentile rainfall event. The volume of the basin's settling zone (V) can be determined as a function of the basin's surface area and depth to allow for particles to settle and can be determined by the following equation:

$$V = 10 \times C_v \times A \times R_{x\text{-day}, y\text{-}\%ile} \text{ (m}^3\text{)}$$

where:

10 = a unit conversion factor

C_v = the volumetric runoff coefficient defined as that portion of rainfall that runs off as stormwater over the x-day period

$R_{x\text{-day}, y\text{-}\%ile}$ = is the x-day total rainfall depth (mm) that is not exceeded in y percent of rainfall events. (See Sections 6.3.4(d), (e), (f), (g) and (h)).

A = total catchment area (ha)

Sediment Storage Zone Volume

In the detailed calculation on Soil Loss Classes 1 to 4 lands, the sediment storage zone can be taken as 50 percent of the settling zone capacity. Alternately designers can design the zone to store the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(ii)). However, on Soil Loss Classes 5, 6 and 7 lands, the zone must contain the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(iii)).

Place an "X" in the box below to show the sediment storage zone design parameters used here:

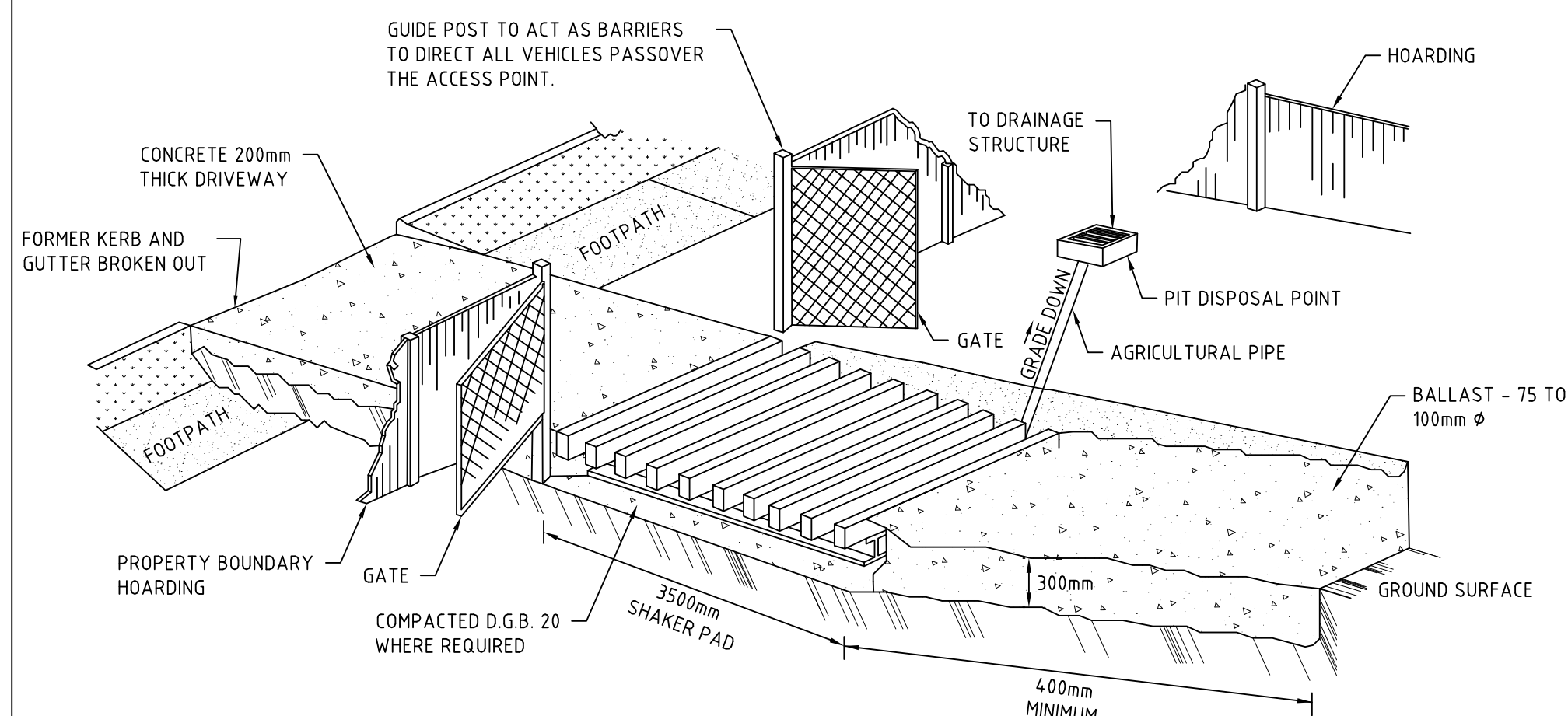
<input type="checkbox"/>	50% of settling zone capacity,
<input checked="" type="checkbox"/>	2 months soil loss calculated by RUSLE

Total Basin Volume

Site	C _v	R _{x-day, y-%ile}	Total catchment area (ha)	Settling zone volume (m ³)	Sediment storage volume (m ³)	Total basin volume (m ³)
CAT 1	0.35	21.84	1.77	135 2988	44	179 2988

NOTE: SOURCED FROM LANDCOM BLUE BOOK.

STABILISED ACCESS POINT - TYPE 2



IN BOTH TYPE I AND TYPE II SAP'S, THE TEMPORARY VEHICULAR CROSSING MUST:
 CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE THE KERB AND GUTTER EXIST). IF A GUTTER LAYBACK DOES NOT EXIST THEN THE CONNECTION MUST
 BE MADE TO THE GUTTER BY REMOVING THE ADJACENT KERB SECTION ONLY.
 CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE CONSTRUCTED IN ACCORDANCE
 WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

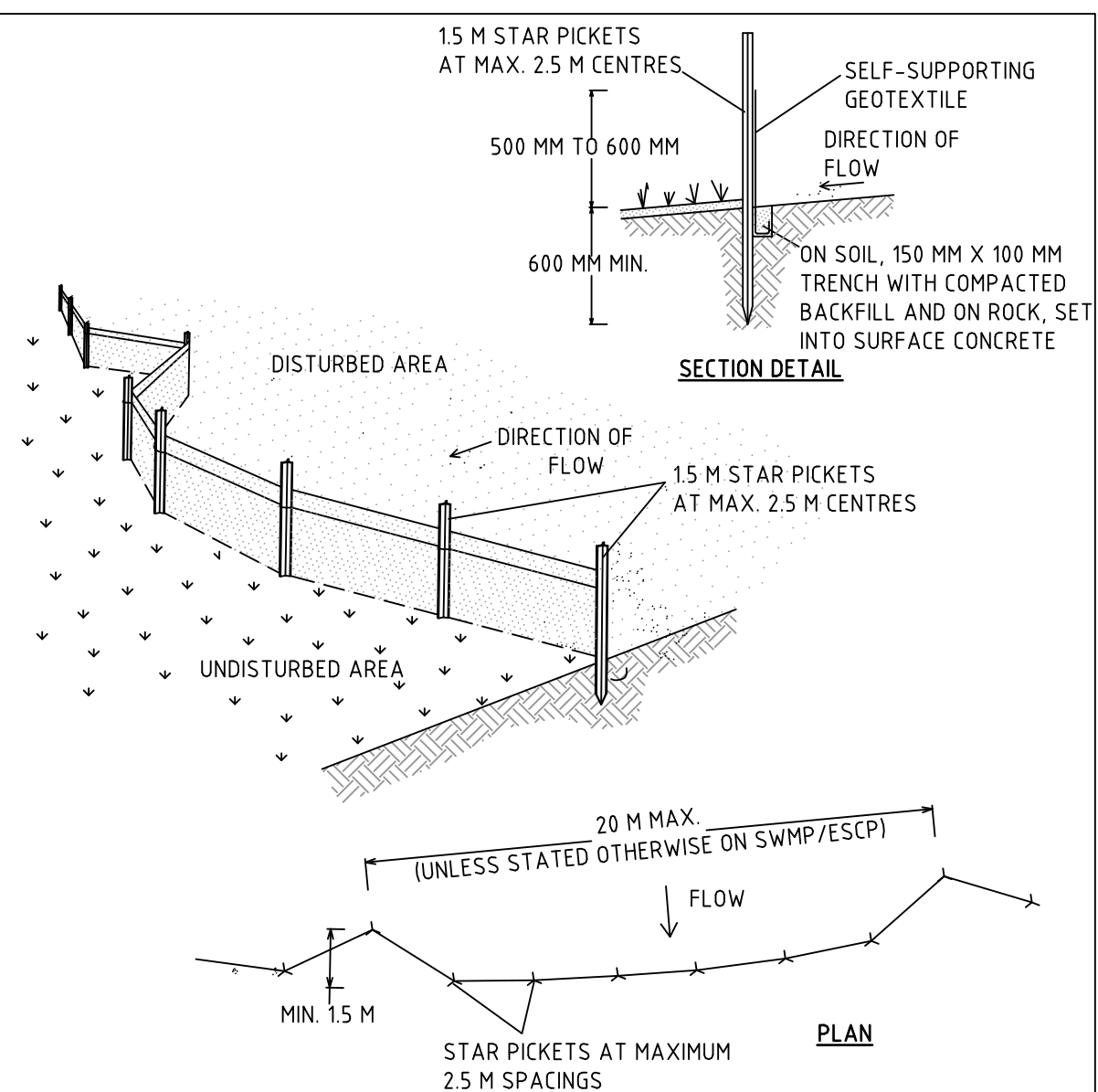
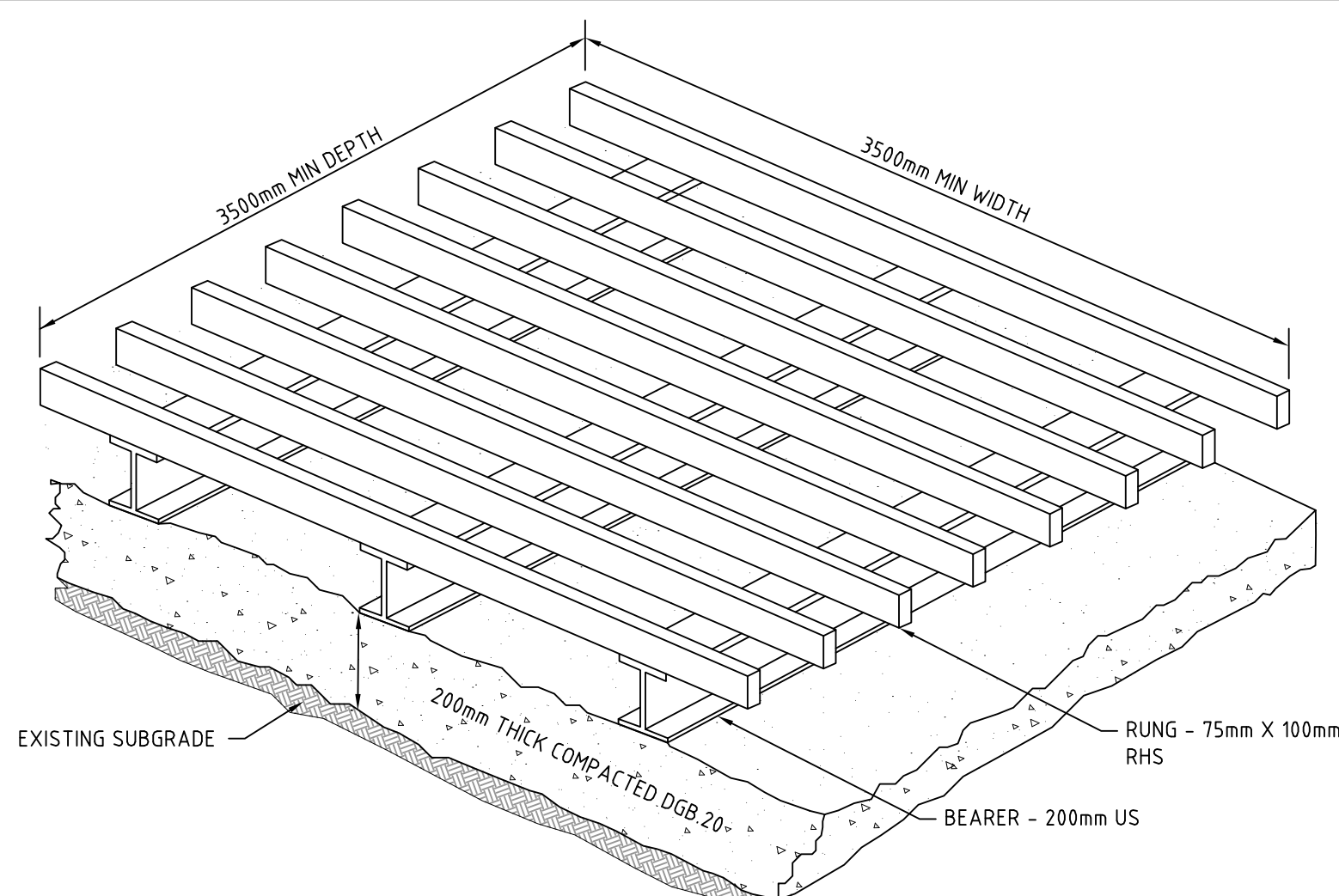
IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

WHEEL WASH (BUILT IN OR PORTABLE) TO BE PROVIDED AS PART OF STABILISED ACCESS POINT.

SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS.
THE SHAKER PAD:

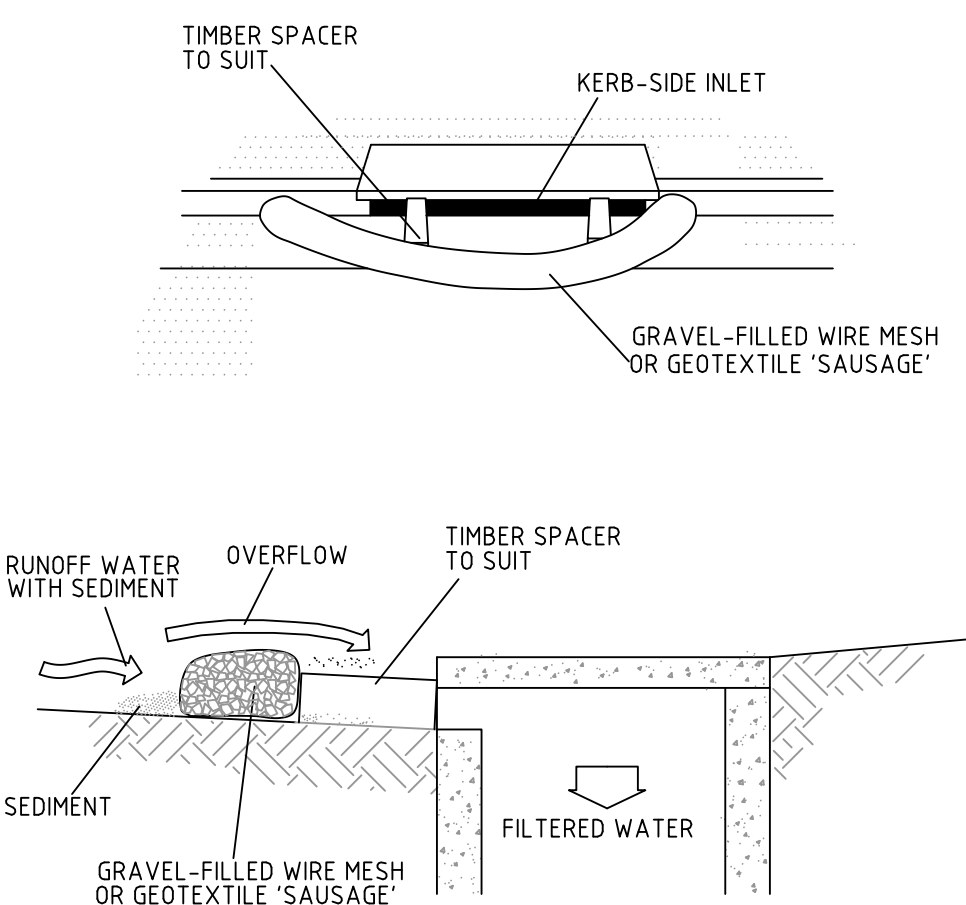
- MUST BE DESIGNED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVANT APPLICATION.
- CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.
- MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL.
- MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.
- MUST BE A MINIMUM OF 3.5M IN LENGTH.
- MUST BE A MINIMUM OF 3.5M IN WIDTH.
- MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 - 250mm.
- RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.
- MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FORM THE TOP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYERS OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.



1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150-MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150-MM OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

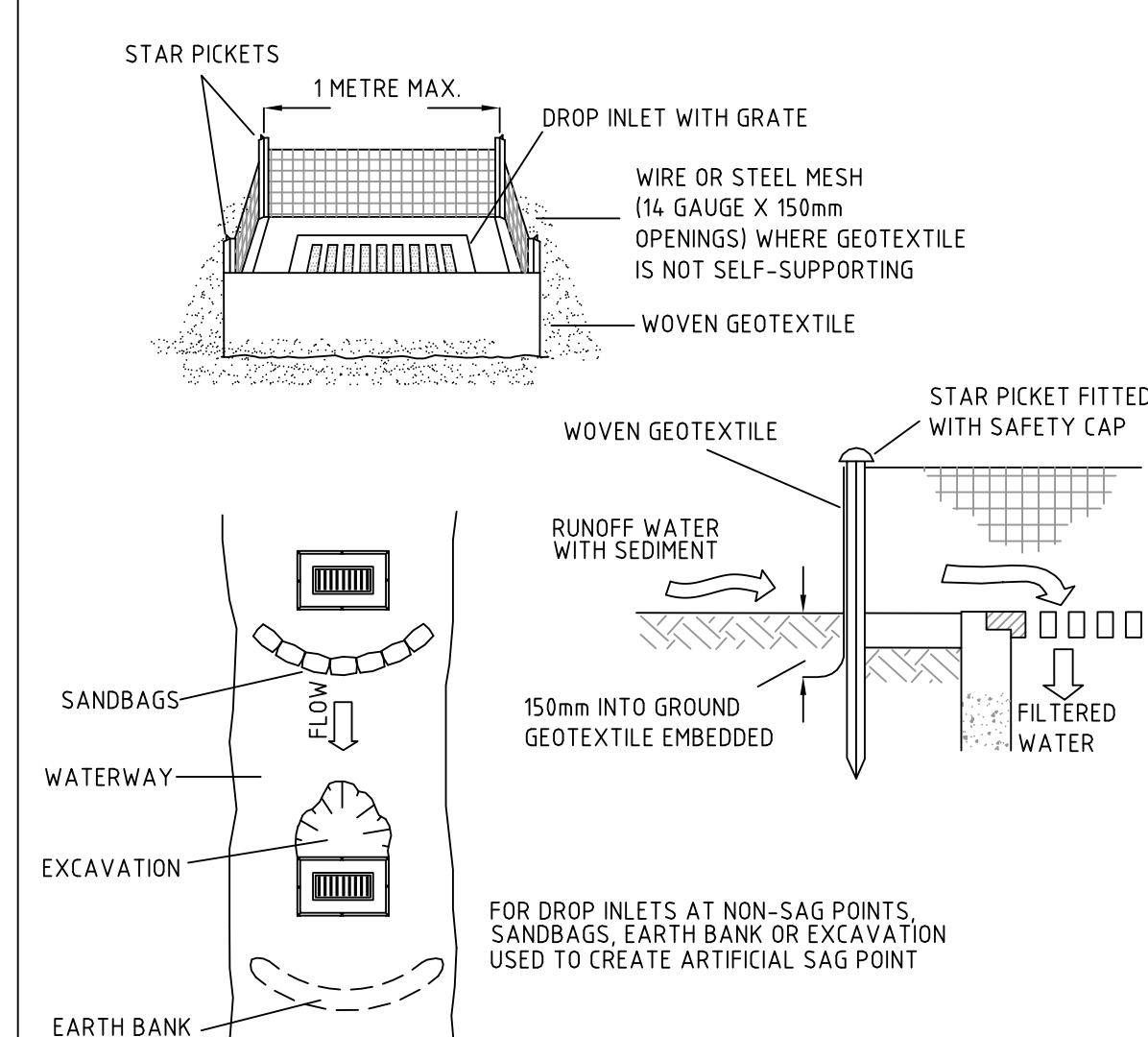
SEDIMENT FENCE SD 6-8



NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

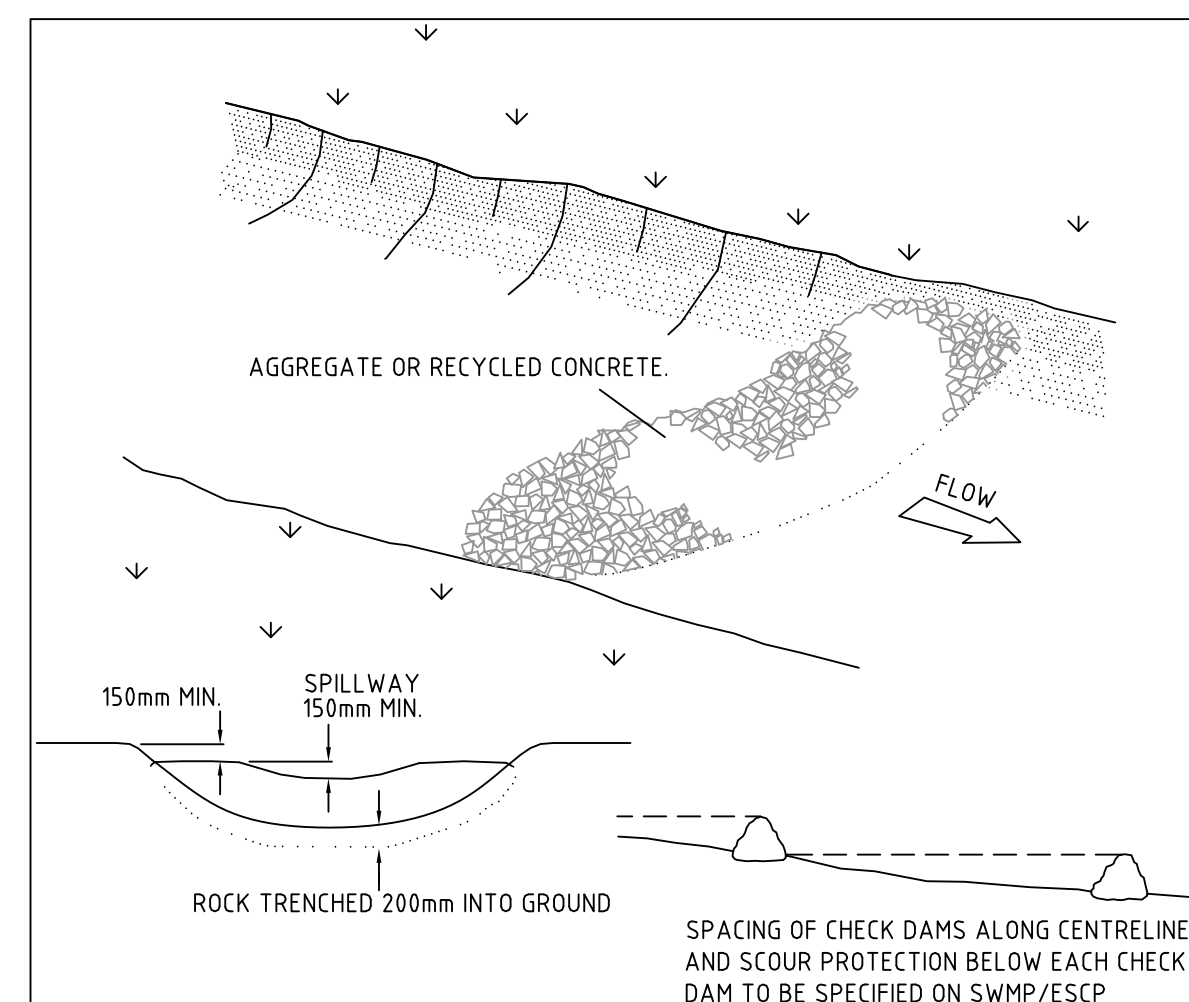
1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm to 50mm GRAVEL.
3. FORM A CIRCULATORY CROSS-SECTION ABOUT 100mm TO 150mm IN DIAMETER.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100-mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER ☒ SD 6-11



1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER ☒ SD 6-12



1. CHECK DAMS CAN BE BUILT WITH VARIOUS MATERIALS, INCLUDING ROCKS, LOGS, SANDBAGS AND STRAW BALES. THE MAINTENANCE PROGRAM SHOULD ENSURE THEIR INTEGRITY IS RETAINED, ESPECIALLY WHERE CONSTRUCTED WITH STRAW BALES. IN THE CASE OF BALES, THIS MIGHT REQUIRE THEIR REPLACEMENT EVERY TWO TO FOUR MONTHS.
2. TRENCH THE CHECK DAM 200mm INTO THE GROUND ACROSS ITS WHOLE WIDTH. WHERE ROCK IS USED, FILL THE TRENCHES TO AT LEAST 100mm ABOVE THE GROUND SURFACE TO REDUCE THE RISK OF UNDERCUTTING.
3. WHERE THEIR MAXIMUM HEIGHT SHOULD NOT EXCEED 600mm ABOVE THE GULLY FLOOR, THE CENTRE SHOULD ACT AS A SPILLWAY, BEING AT LEAST 150mm LOWER THAN THE OUTER EDGES.
4. SPACE THE DAMS SO THE TOE OF THE UPSTREAM DAM IS LEVEL WITH THE SPILLWAY OF THE NEXT DOWNSTREAM DAM.

ROCK CHECK DAM SD 5-4

[illegible]

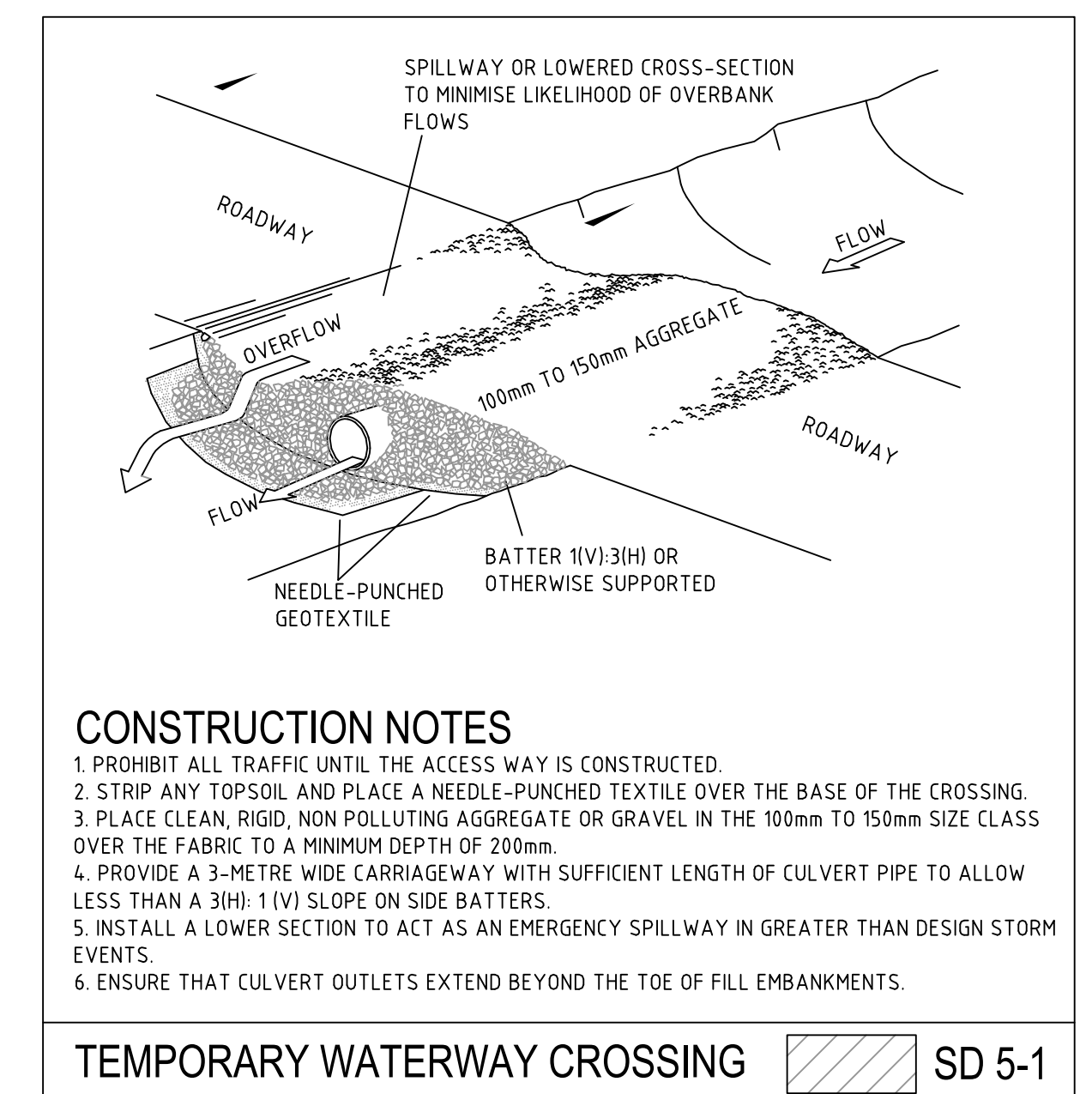
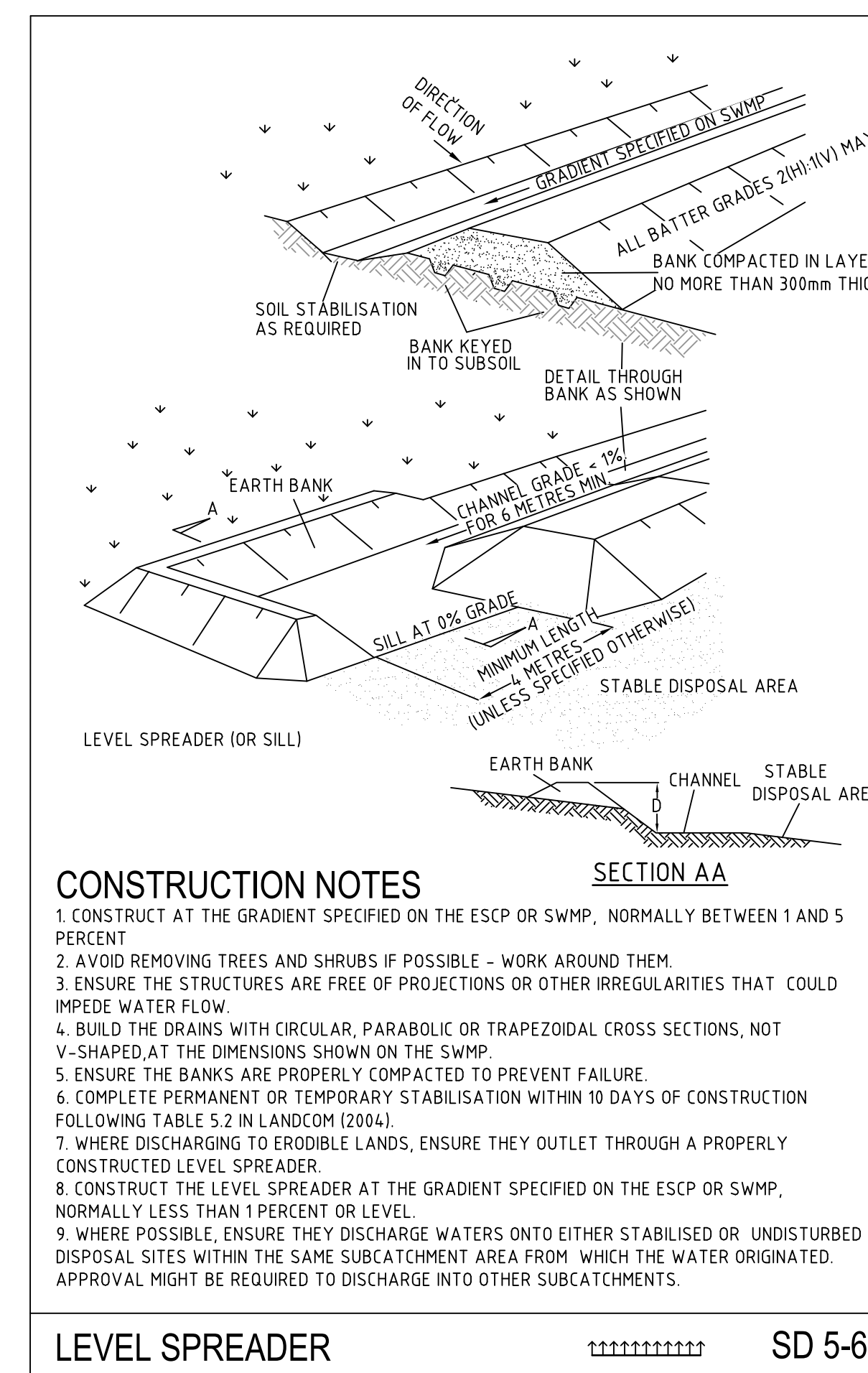
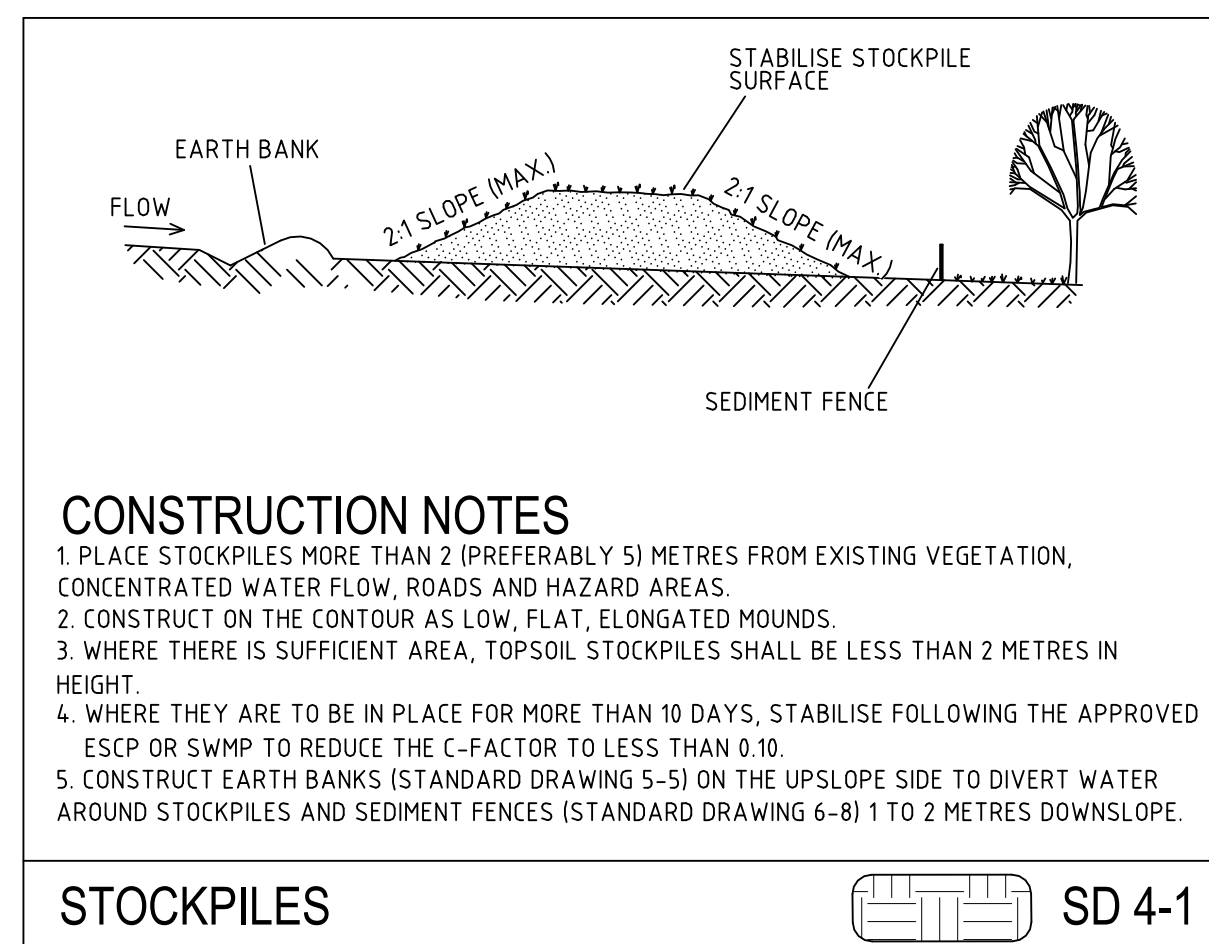
GRID ---	DATUM ---	PROJECT MANAGER TH	CLIENT AMITY COLLEGE
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DRAWING TITLE				
SEDIMENT & EROSION CONTROL DETAILS SHEET 1				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-B310	C

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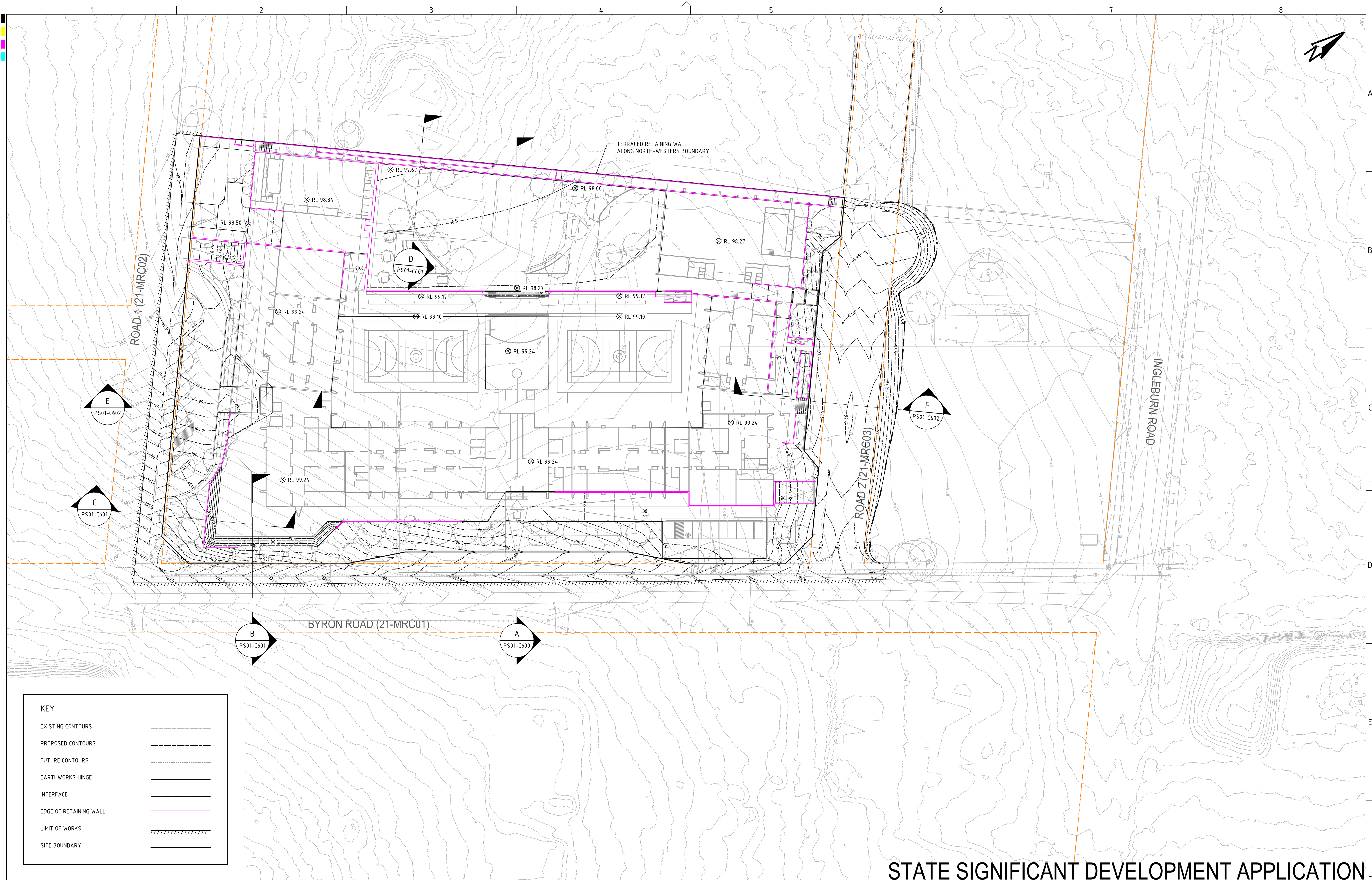
GRID	DATUM	PROJECT MANAGER
TH		
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CLIENT	AMITY COLLEGE
PROJECT NAME/PLANSET TITLE	AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
	63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996

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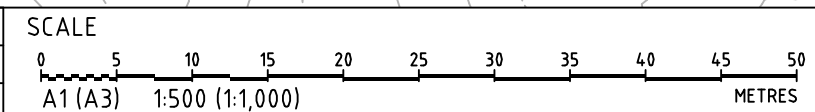
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SEDIMENT & EROSION CONTROL DETAILS SHEET 2				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-B311	B



KEY	
EXISTING CONTOURS	---
PROPOSED CONTOURS	- - - -
FUTURE CONTOURS	---
EARTHWORKS HINGE	---
INTERFACE	---
EDGE OF RETAINING WALL	---
LIMIT OF WORKS	---
SITE BOUNDARY	---

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
H	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
G	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
F	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG		
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	



GRID	DATUM	PROJECT MANAGER	CLIENT
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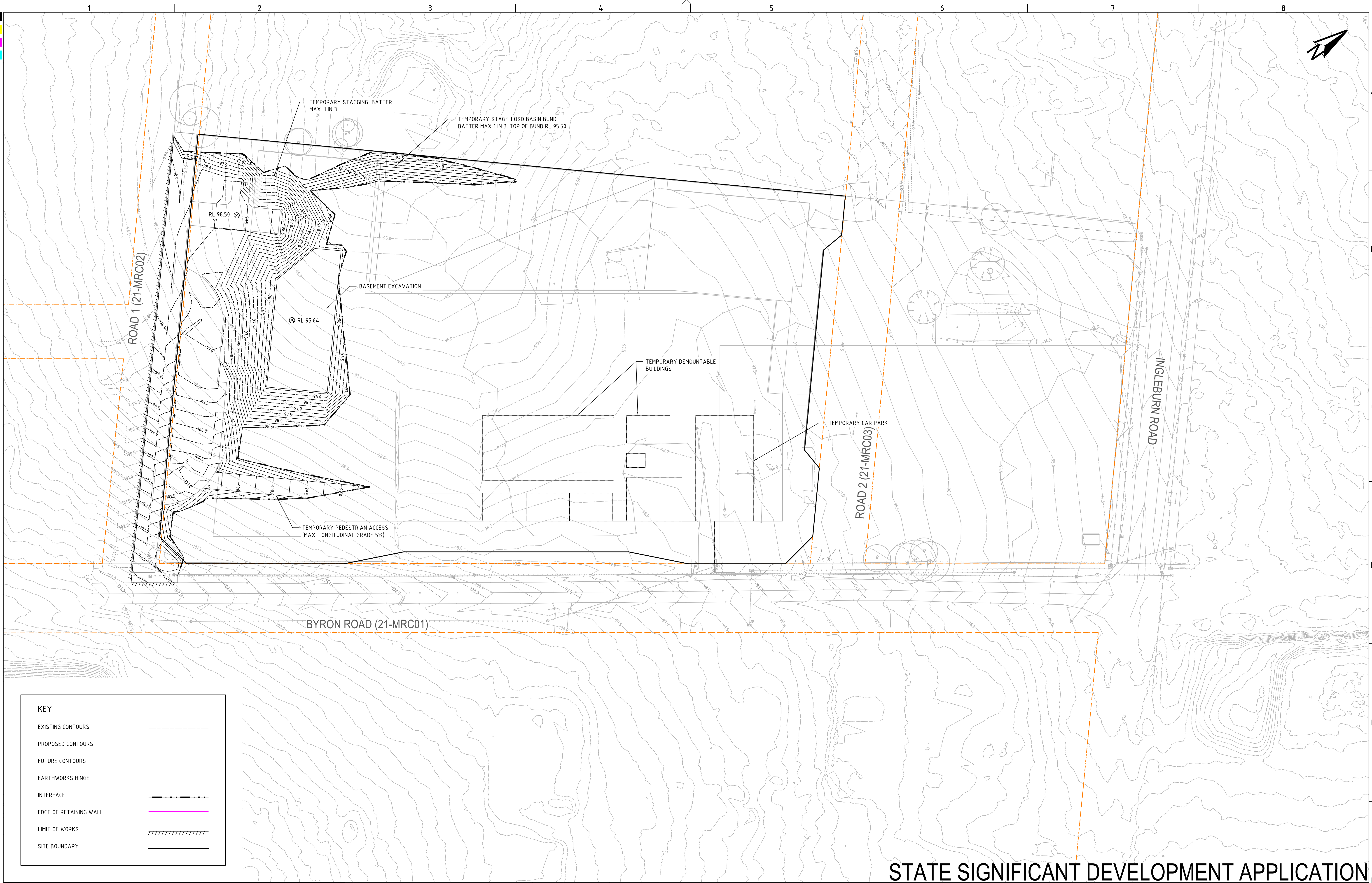
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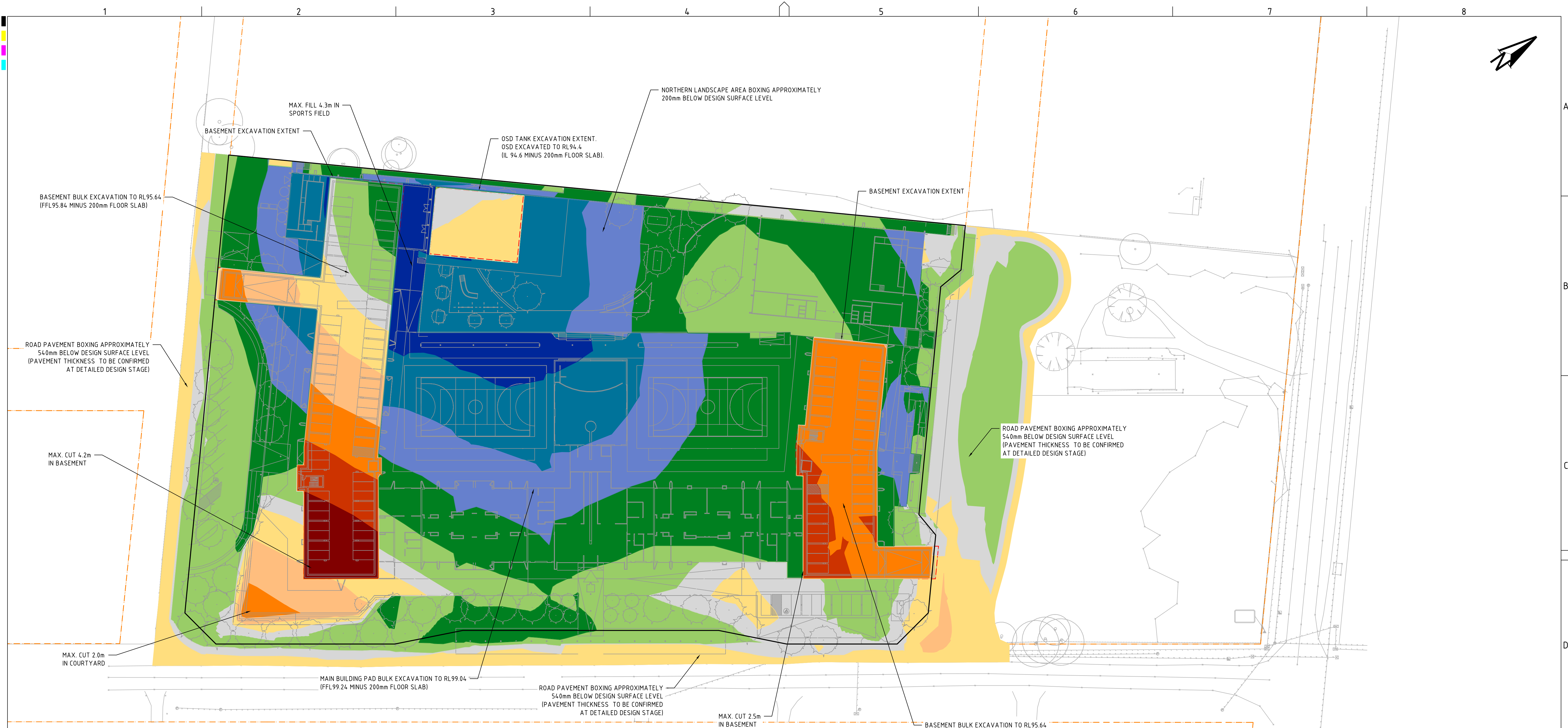
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DRAWING TITLE				
EARTHWORKS GRADING PLAN (ULTIMATE DEVELOPMENT)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-C100	H

STATE SIGNIFICANT DEVELOPMENT APPLICATION



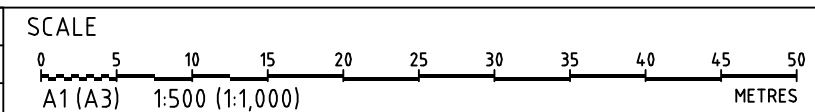
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D	MINOR AMENDMENT		24/07/2019	GM	CG/PD	TH	TH														
C	AMENDED FORM CLIENT COMMENTS		23/07/2019	CG/PD	CG/PD	TH	TH														
B	AMENDED FORM CLIENT COMMENTS		11/07/2019	GM	CG/PD	CG/PD	TH														
A	AMENDED FORM REVISED ARCHITECTURAL PLANS		28/06/2019	GM	CG/EZ	TH	TH														
A1 / A3 LANDSCAPE (A1/C - v02.0.01)																					
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								This plan must not be used for construction unless signed as approved by principal certifying authority.		AMITY COLLEGE LEPPINGTON CAMPUS											
								All measurements in millimetres unless otherwise specified.		CIVIL WORKS PLAN											
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												Consulting Engineers		Environment Water Geotechnical Civil							
												PROJECT NO. P18064.93		PLANSET NO. PS01		RELEASE NO. R11		DRAWING NO. PS01-C101		REVISION E	
												DRAWING ID: P18064.93-PS01-R11-C101									



CUT-FILL DEPTH DESIGN TO EXISTING		
LOWER THAN	-3.000 m	
-3.000 to	-2.250 m	
-2.250 to	-1.500 m	
-1.500 to	-0.750 m	
-0.750 to	-0.150 m	
-0.150 to	0.150 m	
0.150 to	0.750 m	
0.750 to	1.500 m	
1.500 to	2.250 m	
2.250 to	3.000 m	
HIGHER THAN	3.000 m	

BULK EARTHWORKS SUMMARY		
	CUT	FILL
EARTHWORKS VOLUME (m³)	-7166	24111
EARTHWORKS BALANCE (m³)	-	16945

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
E	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
D	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
C	MINOR AMENDMENT	04/07/2019	GM	CG/EZ	TH	TH
B	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
A	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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DRAWING TITLE				
BULK EARTHWORKS CUT-FILL PLAN (ULTIMATE DEVELOPMENT)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-C500	F

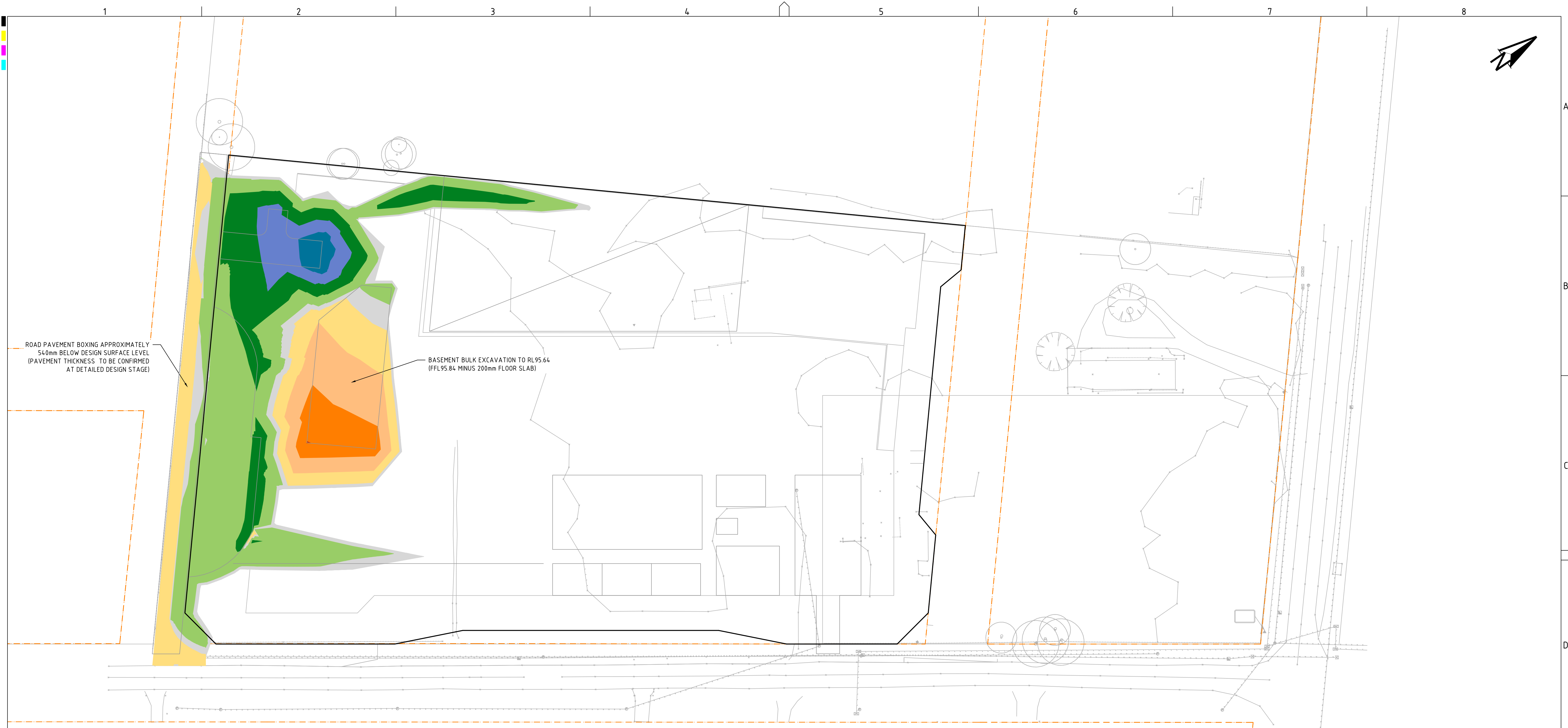
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A1 / A3 LANDSCAPE (A1LC_v02.0.01)

DRAWING ID: P18064.93-PS01-R11-C500

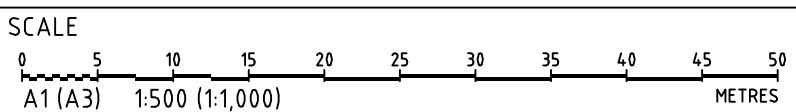
0 5 10 15 20 25 30 35 40 45 50 METRES



CUT-FILL DEPTH DESIGN TO EXISTING		
LOWER THAN	-3.000 m	
-3.000 to	-2.250 m	
-2.250 to	-1.500 m	
-1.500 to	-0.750 m	
-0.750 to	-0.150 m	
-0.150 to	0.150 m	
0.150 to	0.750 m	
0.750 to	1.500 m	
1.500 to	2.250 m	
2.250 to	3.000 m	
HIGHER THAN	3.000 m	

BULK EARTHWORKS SUMMARY		
	CUT	FILL
EARTHWORKS VOLUME (m³)	-1403	2462
EARTHWORKS BALANCE (m³)	-	1061

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
D	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
C	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
B	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
A	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH



GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH
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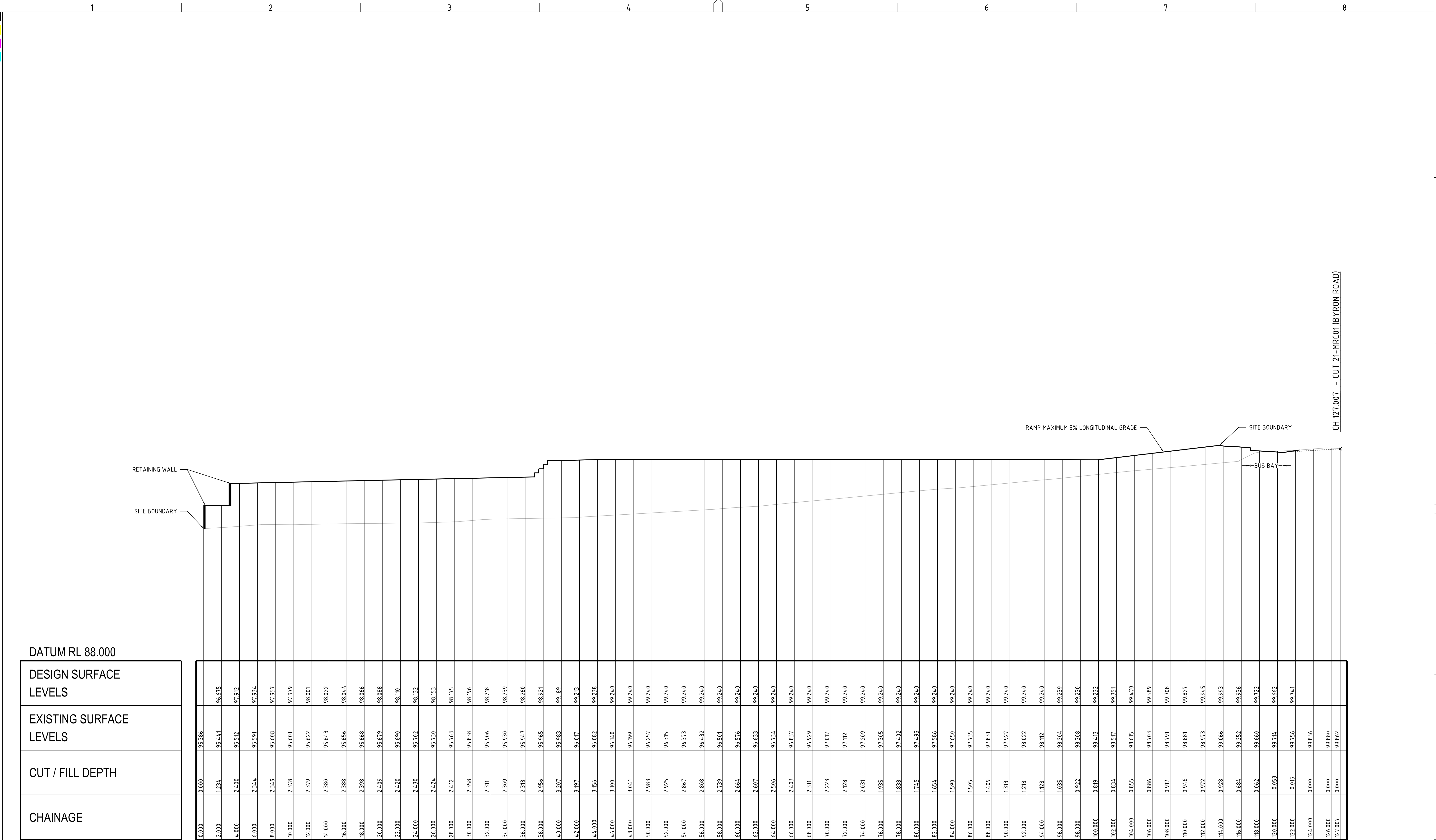
DRAWING TITLE				
BULK EARTHWORKS CUT-FILL PLAN (STAGE 1)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-C501	D

STATE SIGNIFICANT DEVELOPMENT APPLICATION

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A1 / A3 LANDSCAPE (A1LC_v02.0.01)

DRAWING ID: P18064.93-PS01-R11-C501



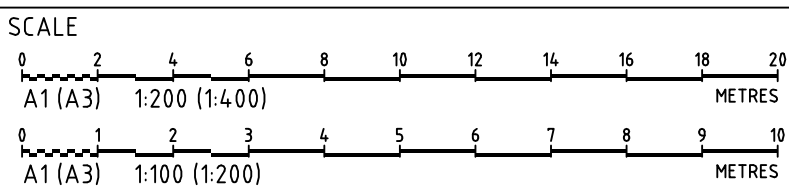
DATUM RL 88.000

DESIGN SURFACE LEVELS	EXISTING SURFACE LEVELS	CUT / FILL DEPTH	CHAINAGE
96.675	95.386	0.000	0.000
97.912	95.441	1.234	2.000
97.934	95.512	2.400	4.000
97.957	95.591	2.344	6.000
97.979	95.608	2.349	8.000
98.001	95.601	2.378	10.000
98.022	95.622	2.379	12.000
98.044	95.643	2.380	14.000
98.066	95.656	2.388	16.000
98.088	95.668	2.398	18.000
98.110	95.679	2.409	20.000
98.132	95.690	2.420	22.000
98.153	95.702	2.430	24.000
98.175	95.730	2.424	26.000
98.196	95.763	2.412	28.000
98.218	95.838	2.358	30.000
98.239	95.906	2.311	32.000
98.260	95.930	2.309	34.000
98.281	95.947	2.313	36.000
98.302	95.965	2.356	38.000
98.323	95.983	3.207	40.000
98.344	96.017	3.197	42.000
98.365	96.082	3.156	44.000
98.386	96.140	3.100	46.000
98.407	96.199	3.041	48.000
98.428	96.257	2.983	50.000
98.449	96.315	2.925	52.000
98.470	96.373	2.867	54.000
98.491	96.432	2.808	56.000
98.512	96.501	2.739	58.000
98.533	96.576	2.664	60.000
98.554	96.633	2.607	62.000
98.575	96.734	2.506	64.000
98.596	96.837	2.403	66.000
98.617	96.929	2.311	68.000
98.638	97.017	2.223	70.000
98.659	97.112	2.128	72.000
98.680	97.209	2.031	74.000
98.701	97.305	1.935	76.000
98.722	97.402	1.838	78.000
98.743	97.495	1.745	80.000
98.764	97.586	1.654	82.000
98.785	97.650	1.590	84.000
98.806	97.735	1.505	86.000
98.827	97.831	1.409	88.000
98.848	97.927	1.313	90.000
98.869	98.022	1.218	92.000
98.890	98.112	1.128	94.000
98.911	98.204	1.035	96.000
98.932	98.308	0.922	98.000
98.953	98.413	0.819	100.000
98.974	98.517	0.834	102.000
98.995	98.615	0.855	104.000
99.016	98.703	0.886	106.000
99.037	98.791	0.917	108.000
99.058	98.881	0.946	110.000
99.079	98.973	0.972	112.000
99.100	99.066	0.928	114.000
99.121	99.252	0.684	116.000
99.142	99.660	0.062	118.000
99.163	99.714	-0.053	120.000
99.184	99.756	-0.015	122.000
99.205	99.836	0.000	124.000
99.226	99.880	0.000	126.000
99.247	99.862	0.000	127.007

SECTION A

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

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG	CG/DG	
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996

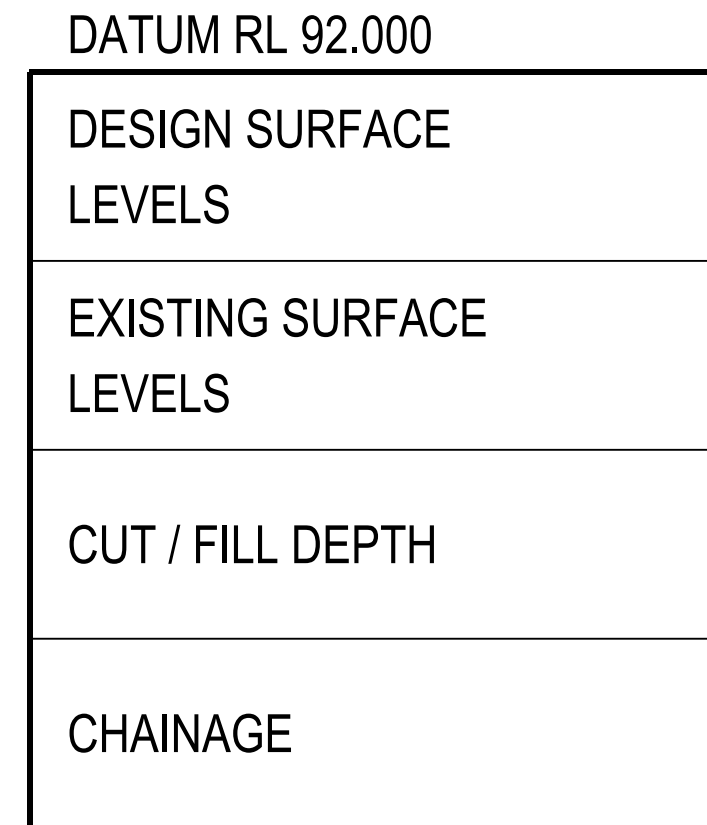


Consulting Engineers
Environment
Water
Geotechnical
Civil

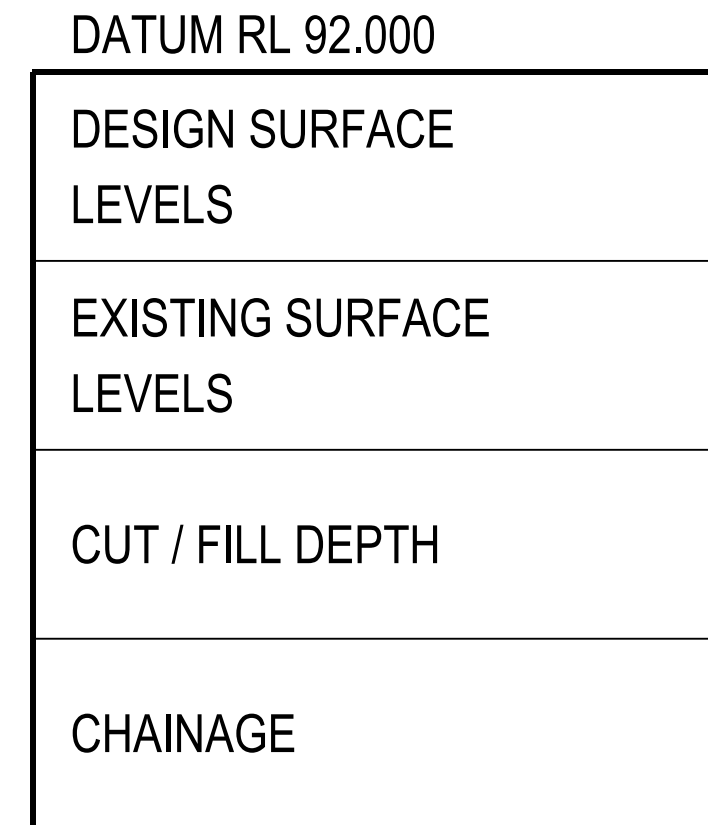
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767
Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
EARTHWORKS SECTION (SHEET 1)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-C600	E

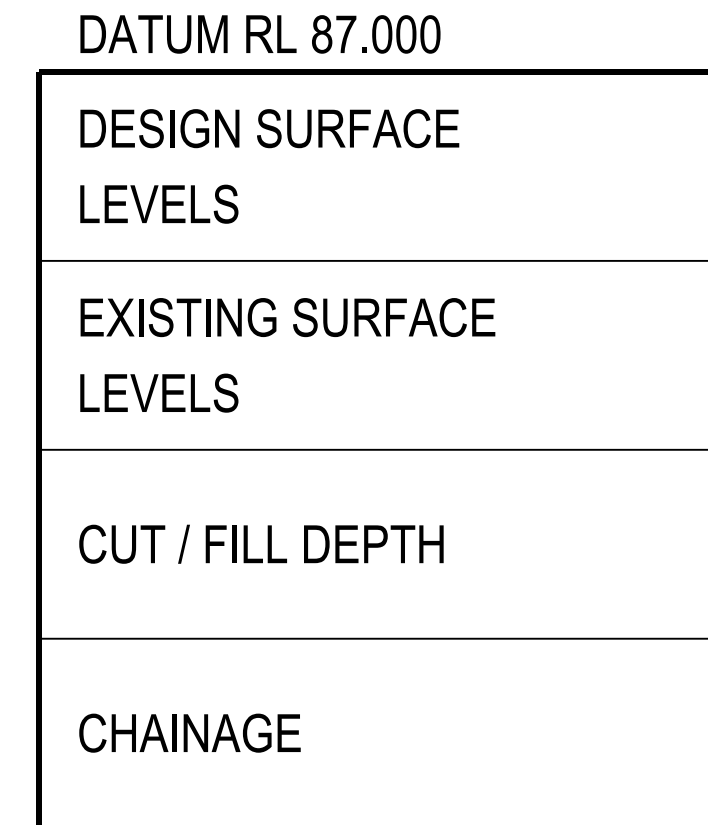
STATE SIGNIFICANT DEVELOPMENT APPLICATION



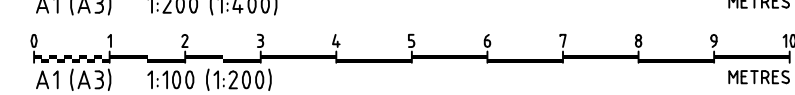
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VERTICAL - 1:100



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



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




NAME	DATE	TIME
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PROJECT NAME/PLANSET TITLE
<p>AMITY COLLEGE LEPPINGTON CAMPUS</p> <p>CIVIL WORKS PLAN</p> <p>63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171</p> <p>LOT 1 & 2 DP 525996</p>

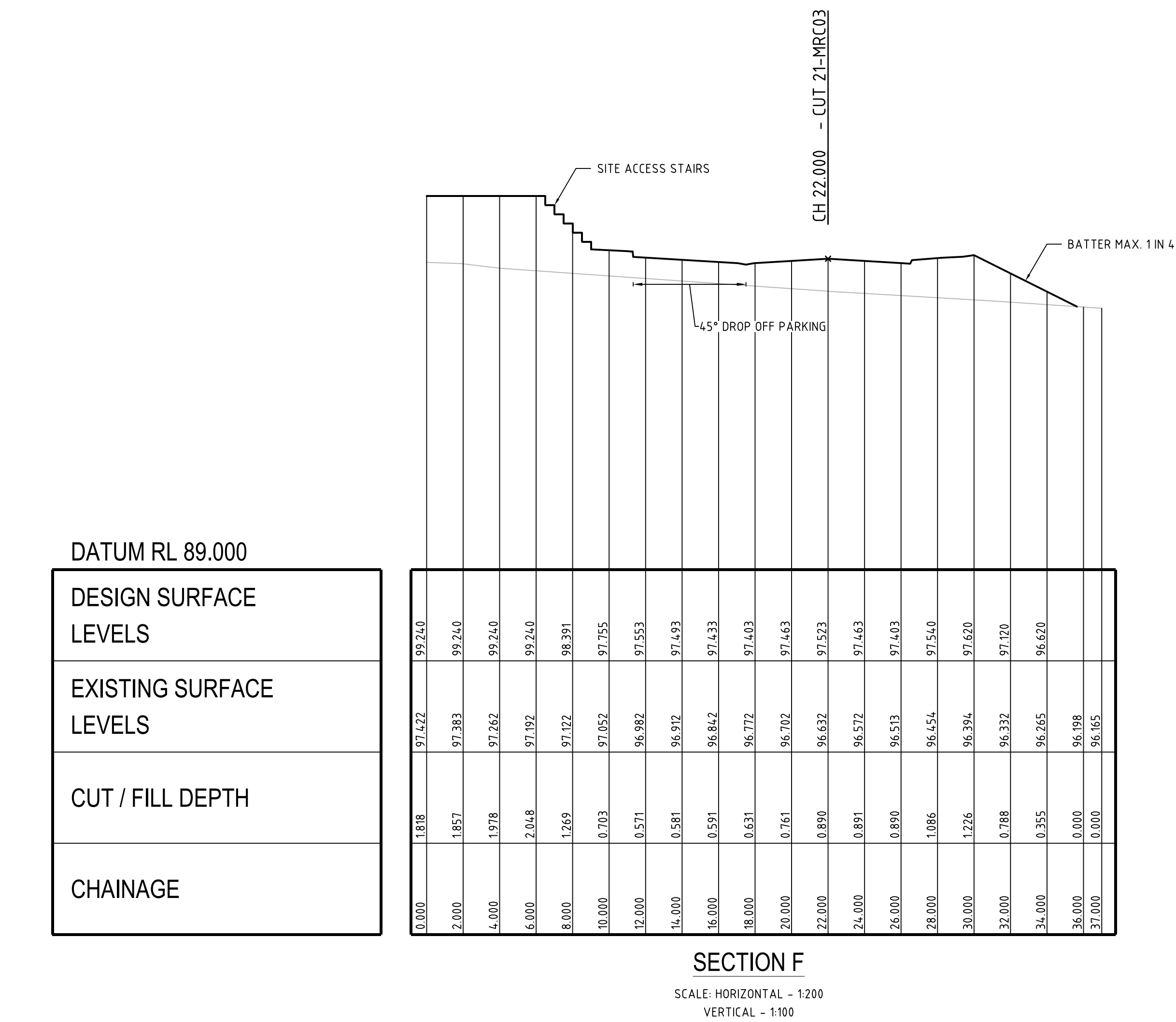


- Environment
- Water
- Geotechnical
- Civil

EARTHWORKS SECTION (SHEET 2)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-C601	C

 <p style="margin: 0;">martens & Associates Pty Ltd</p>	<p>Consulting Engineers</p> <p>Environment Water Geotechnical Civil</p>	<p>DRAWING TITLE</p> <p>EARTHWORKS SECTION (SHEET 2)</p>											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">PROJECT NO.</th> <th style="width: 20%;">PLANSET NO.</th> <th style="width: 20%;">RELEASE NO.</th> <th style="width: 20%;">DRAWING NO.</th> <th style="width: 20%;">REVISION</th> </tr> <tr> <td style="text-align: center;">P1806493</td> <td style="text-align: center;">PS01</td> <td style="text-align: center;">R11</td> <td style="text-align: center;">PS01-C601</td> <td style="text-align: center;">C</td> </tr> </table>				PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION	P1806493	PS01	R11	PS01-C601
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION									
P1806493	PS01	R11	PS01-C601	C									

DRAWING ID: P1806493-PS01-R11-C601



SCALE

A1 (A3) 1:200 (1:400) METRES

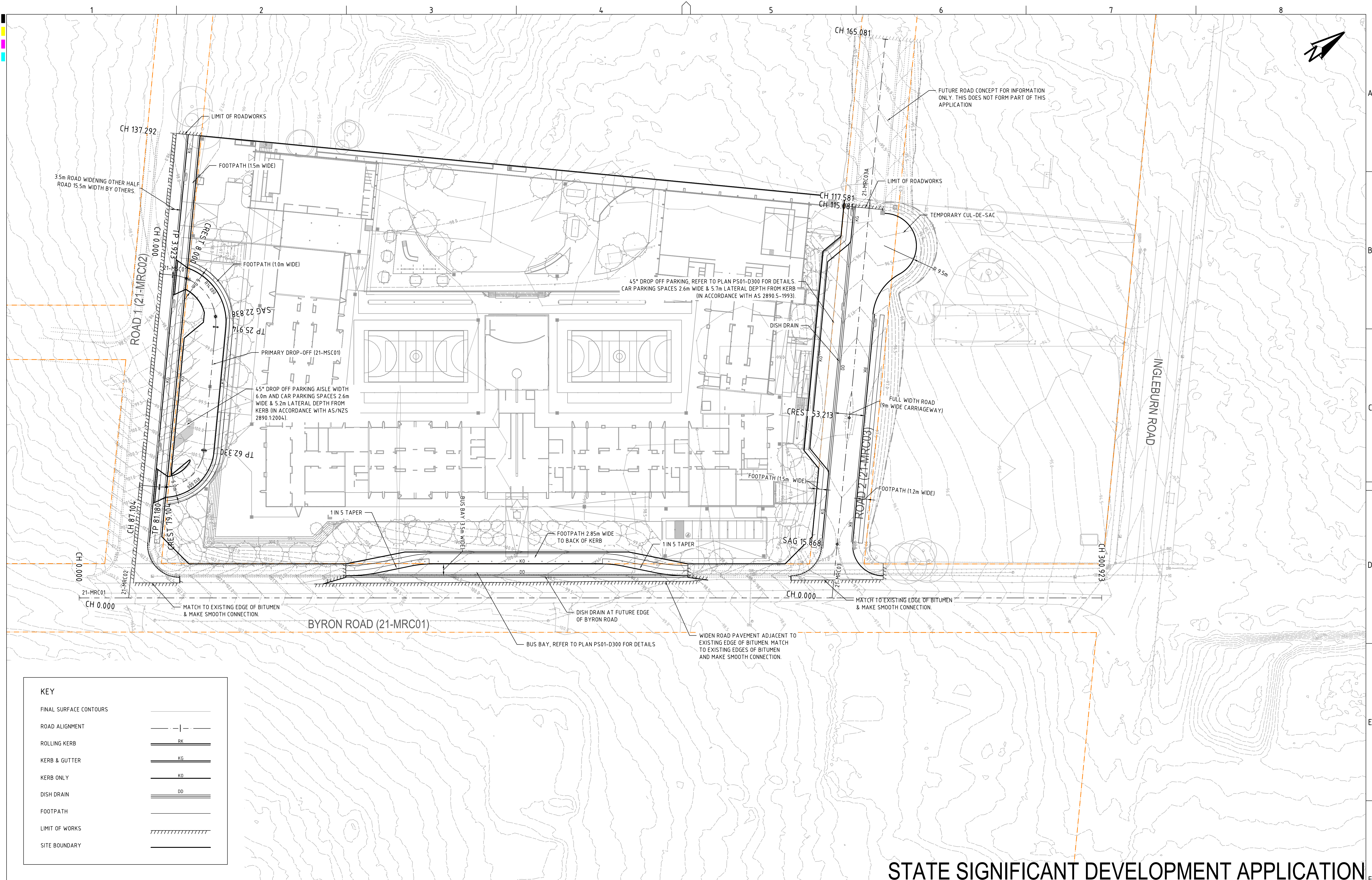
A1 (A3) 1:100 (1:200) METRES

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& Associates Pty Ltd

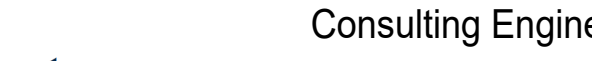
Consulting Engineers
Environment
Water
Geotechnical
Civil

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DRAWING TITLE				
EARTHWORKS SECTION (SHEET 3)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-C602	C



STATE SIGNIFICANT DEVELOPMENT APPLICATION

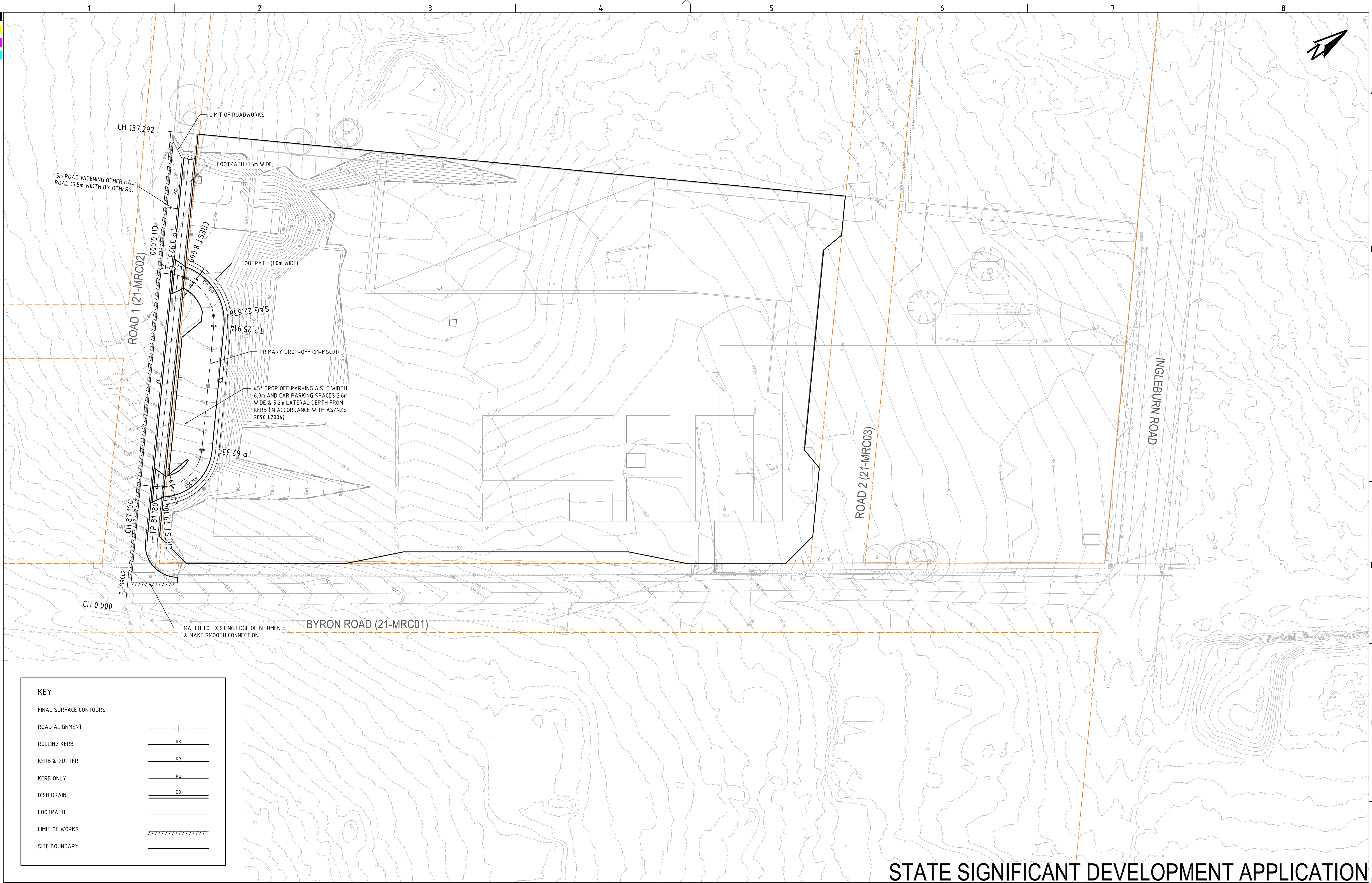
REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div>Consulting Engineers Environment Water Geotechnical Civil</div> <div>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au</div>				
H	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH	0 5 10 15 20 25 30 35 40 45 50 A1 (A3) 1:500 (1:1,000) METRES	MGA	mAHD	TH	AMITY COLLEGE					DRAWING TITLE
G	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH					PROJECT NAME/PLANSET TITLE	ROADWORKS PLAN (ULTIMATE DEVELOPMENT)				
F	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH					AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH					63 INGLEDURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996	P18064.93	PS01	R11	PS01-D100	H
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH						DRAWING ID: P18064.93-PS01-R11-D100				
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG											
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG												
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH											

PRINTED: 11/05/2020 11:00 AM

A17 A3 LANDSCAPE (A17C_02.0.01)

DRAWING ID: P18064.93-PS01-R11-D100

0 5 10 15 20 25 30 35 40 45 50 METRES



REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
E	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
D	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
C	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
B	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
A	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE

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PROJECT NAME/PLANSET TITLE	
AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN	

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DRAWING TITLE				
ROADWORKS PLAN (STAGE 1)				

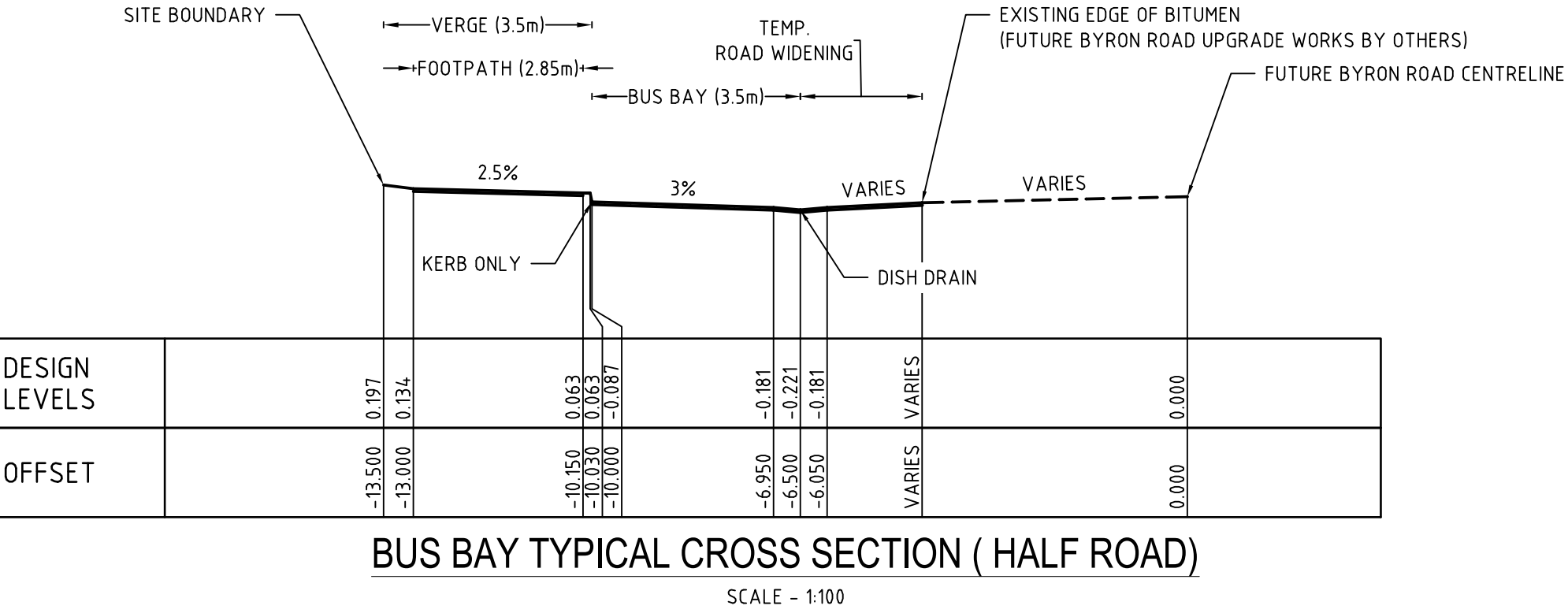
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-D101	E

STATE SIGNIFICANT DEVELOPMENT APPLICATION

PRINTED: 11/05/2020 11:00

A1 / A3 LANDSCAPE (A1L_C_02.0.01)

DRAWING ID: P18064.93-PS01-R11-D101



VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GRADE (%)
VERTICAL GRADE (1 IN ...)
HORIZONTAL CURVE RADIUS (m)
DATUM RL 87.000

DESIGN SURFACE LEVELS	103.506	103.519	103.026	102.546	102.066	101.586	101.106	100.632	100.158	99.684	99.210	98.736	98.262	97.788	97.314	96.840	96.366	95.892	95.418	94.944
EXISTING SURFACE LEVELS	103.519	103.056	102.517	102.041	101.518	101.044	100.518	100.000	99.474	98.948	98.422	97.896	97.370	96.844	96.318	95.792	95.266	94.740	94.214	93.688
CUT / FILL DEPTH	-0.013	-0.029	0.029	0.026	0.068	0.062	0.061	0.028	0.006	-0.014	-0.009	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
CHAINAGE	0.000	15.000	30.000	45.000	60.000	75.000	90.000	105.000	120.000	135.000	150.000	165.000	180.000	195.000	210.000	225.000	240.000	255.000	270.000	285.000

CONCEPT FUTURE BYRON ROAD (21-MRC01) LONG. SECTION (BY OTHERS)

SCALE: HORIZONTAL - 1:500
VERTICAL - 1:100

NOTE: FUTURE BYRON BAY ROAD UPGRADE DETAILS TO BE CONFIRMED AT CC STAGE.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG	CG/DG	
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	

SCALE

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

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

GRID MGA

DATUM mAHD

PROJECT MANAGER TH

CLIENT AMITY COLLEGE

PROJECT NAME/PLANSET TITLE AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN

63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996

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Consulting Engineers

Environment Water Geotechnical Civil

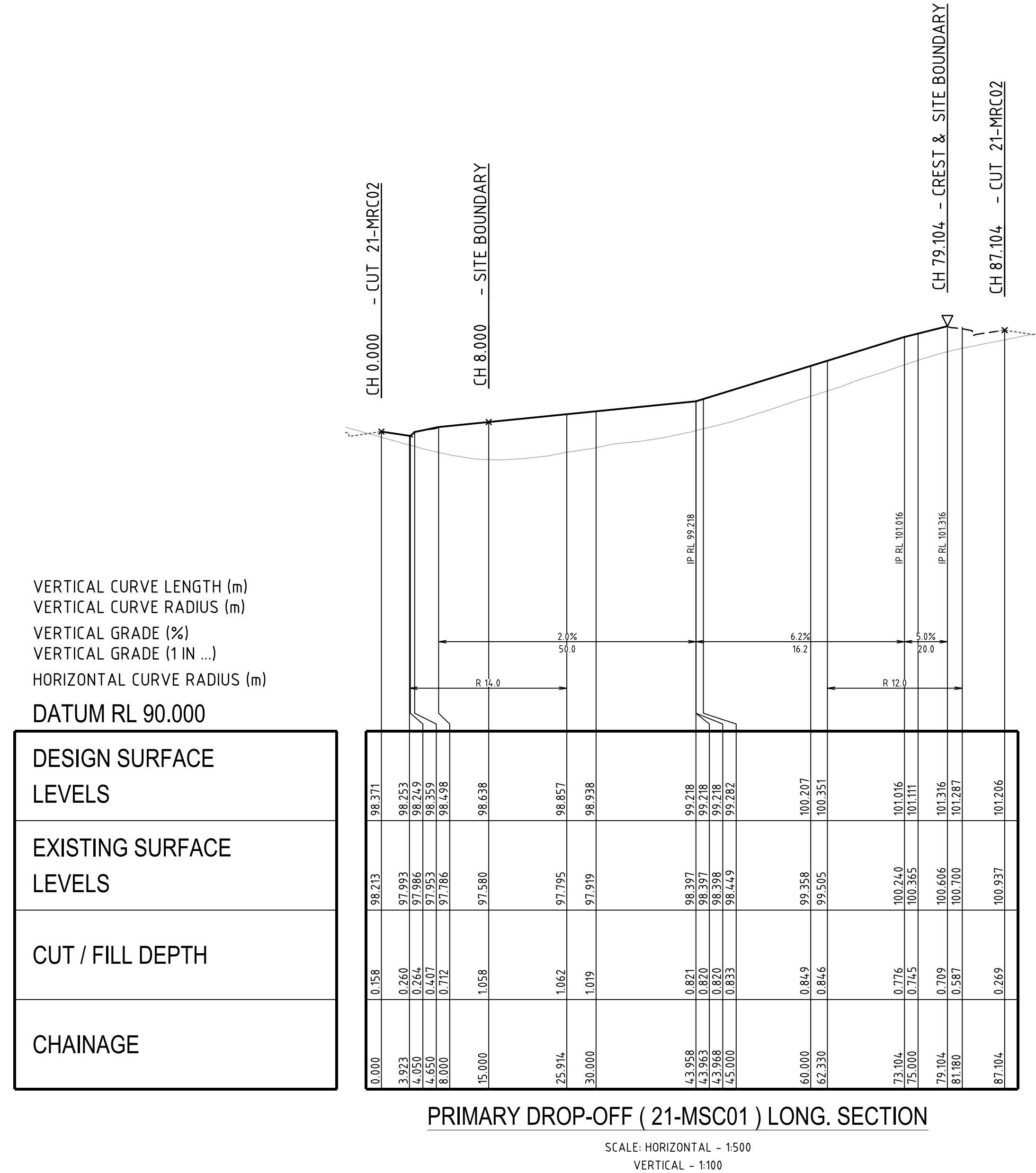
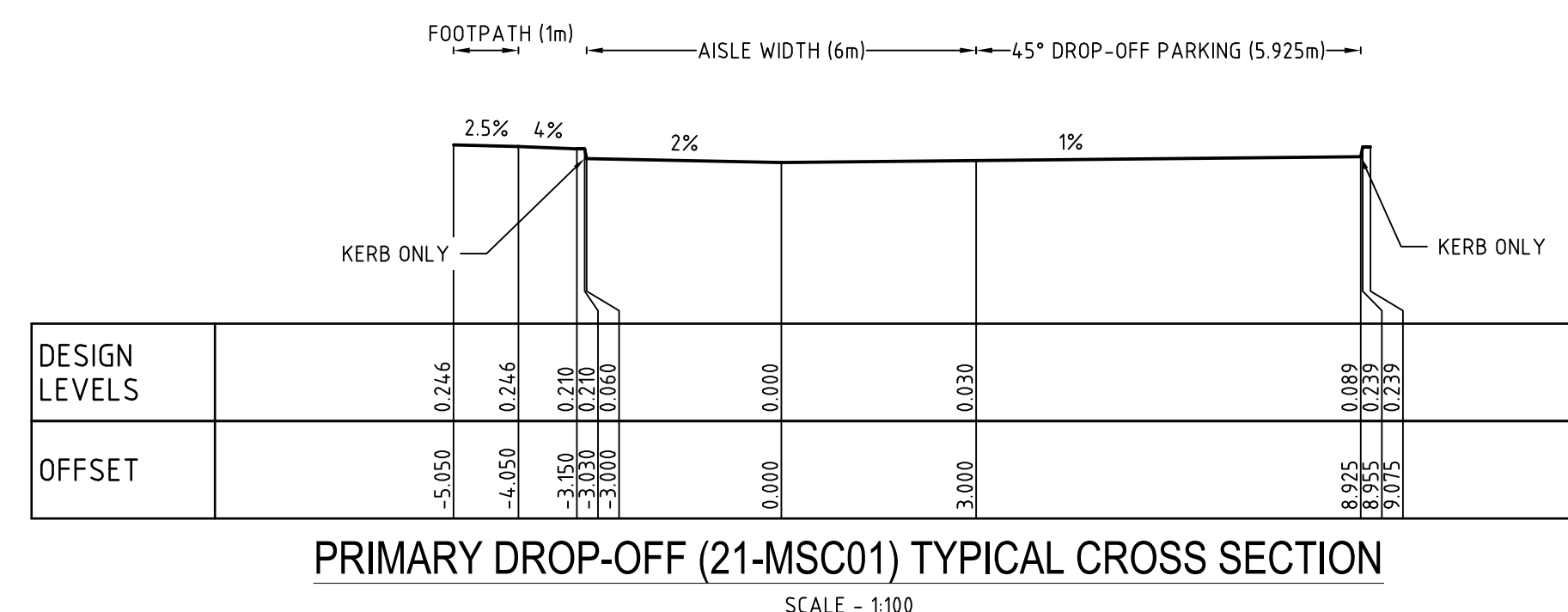
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DRAWING TITLE

CONCEPT FUTURE BYRON ROAD (21-MRC01) LONGITUDINAL & TYPICAL SECTION

PROJECT NO. P18064.93	PLANSET NO. PS01	RELEASE NO. R11	DRAWING NO. PS01-D200	REVISION D
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STATE SIGNIFICANT DEVELOPMENT APPLICATION



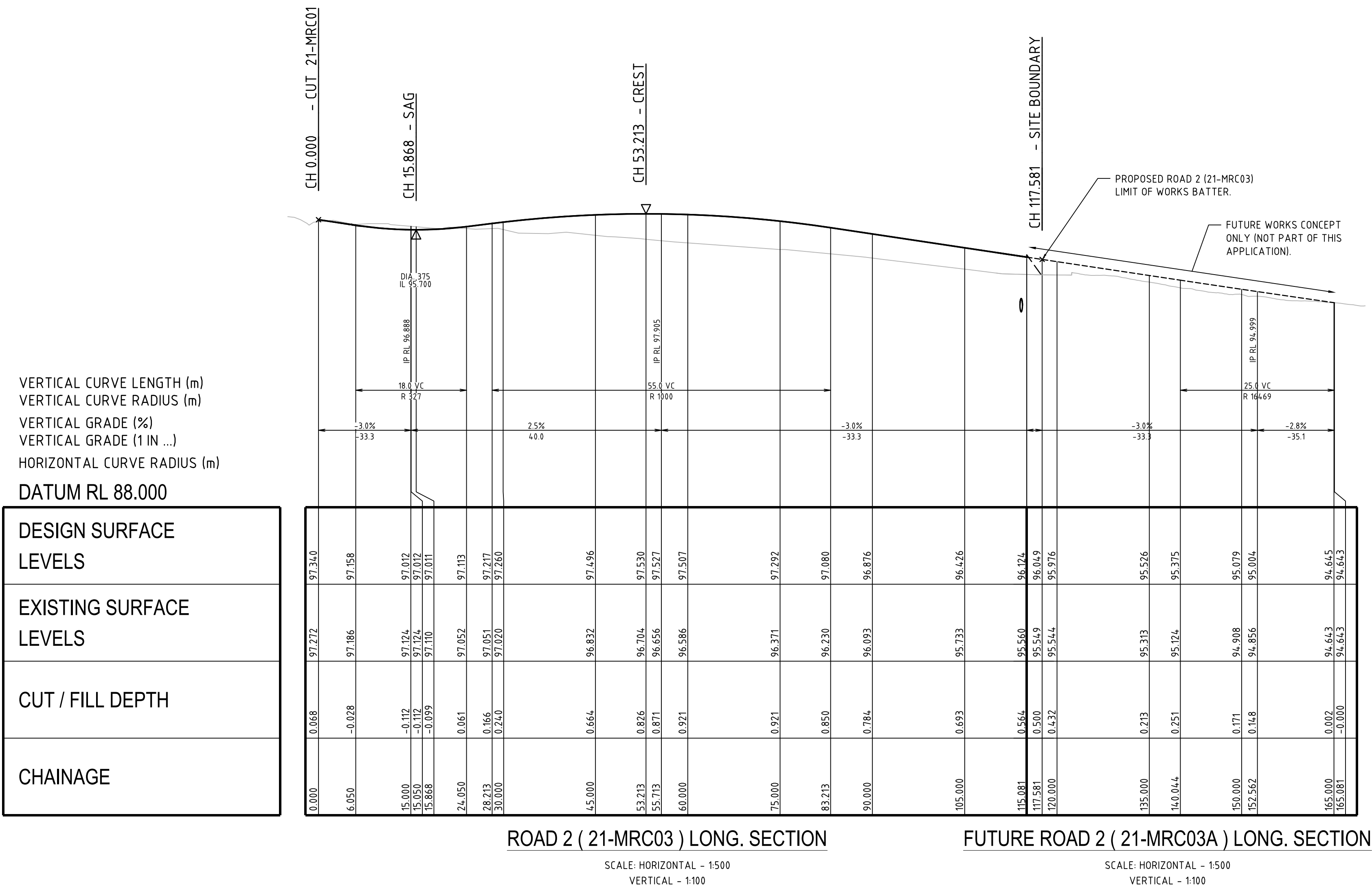
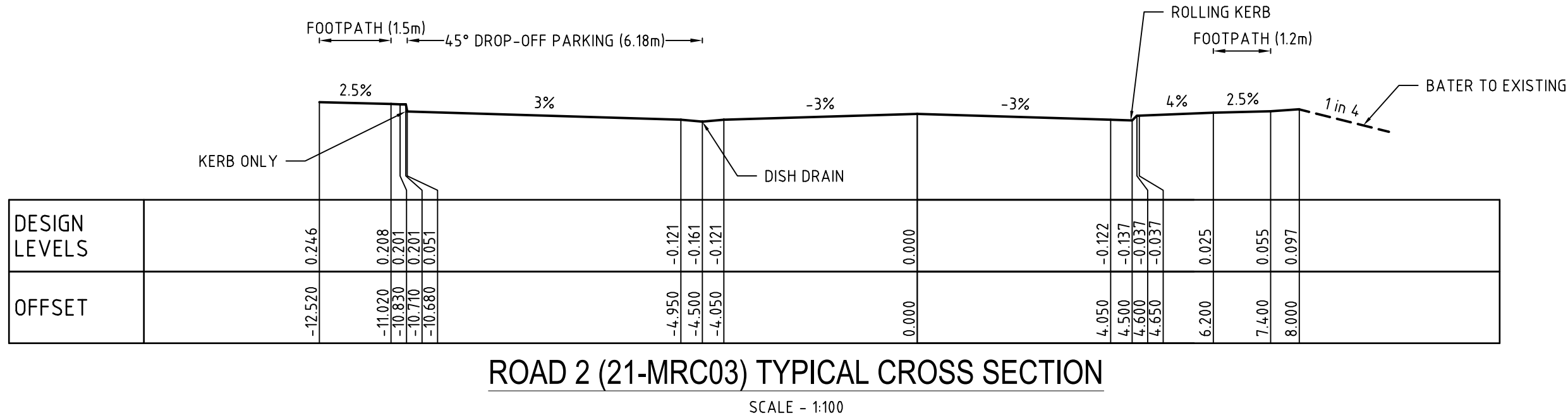
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0 1 2 3 4 5 6 7 8 9 10
A1 (A3) 1:100 (1:200) METRES

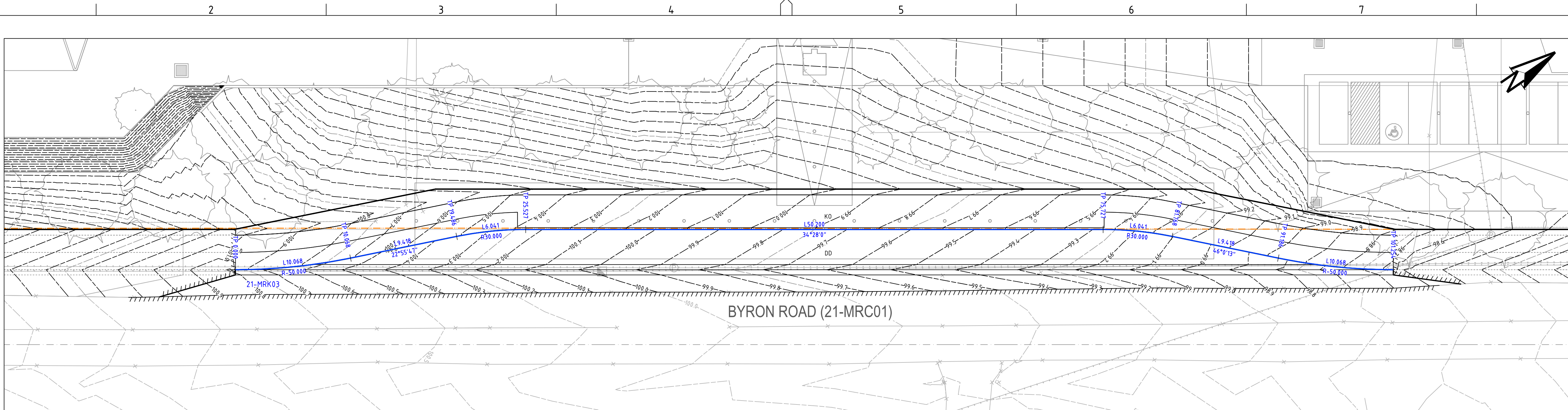
CLIENT	AMITY COLLEGE
PROJECT NAME/PLANSET TITLE	AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
	63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996

DRAWING TITLE				
ROAD 1 (21-MRC02) & PRIMARY DROP-OFF (21-MSC01) LONGITUDINAL & TYPICAL SECTIONS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-D201	F



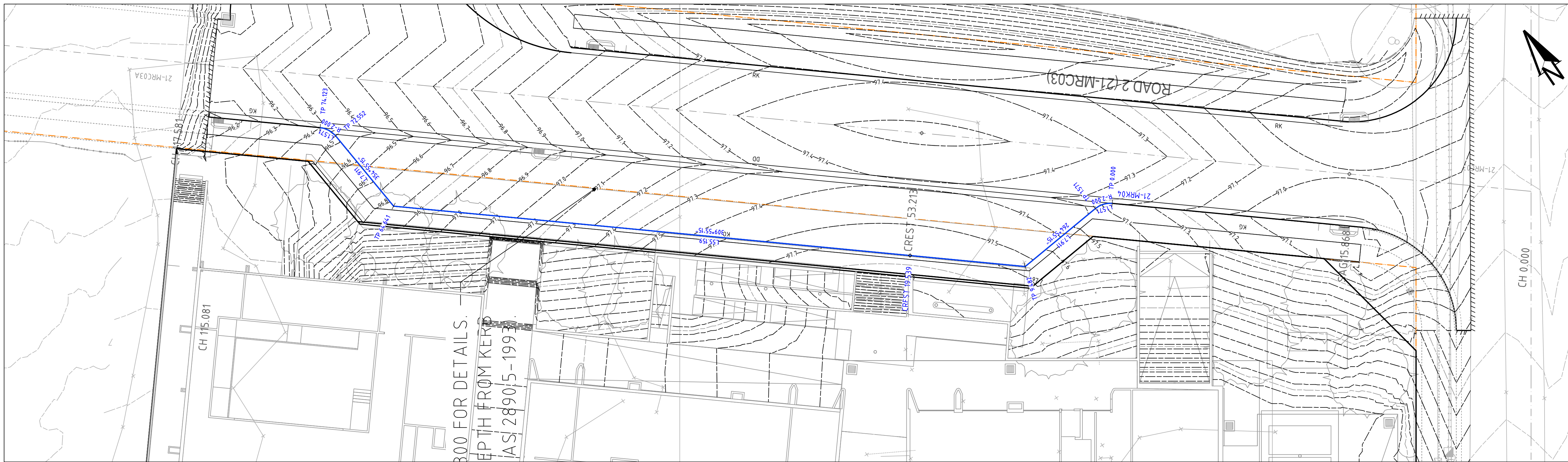
STATE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE			
C	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH	0 5 10 15 20 25 30 35 40 45 50 A1 (A3) 1:500 (1:1,000) METRES	MGA	mAHD	TH	AMITY COLLEGE	ROAD 2 (21-MRC03) & FUTURE ROAD 2 (21-MRC03A)			
B	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH	0 1 2 3 4 5 6 7 8 9 10 A1 (A3) 1:100 (1:200) METRES	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.			PROJECT NAME/PLANSET TITLE AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN			LONGITUDINAL & TYPICAL SECTIONS	
A	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG			(C) Copyright Martens & Associates Pty Ltd			63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996			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			PROJECT NO. PLANSET NO. RELEASE NO. DRAWING NO. REVISION P1806493 PS01 R11 PS01-D202 C	
A1 / A3 LANDSCAPE (A1/LC_v02 0-01)												DRAWING ID: P1806493-PS01-R11-D202			



BUS BAY DETAILS

SCALE 1:200



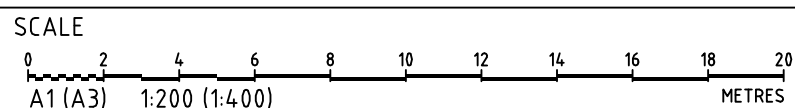
45° DROP OFF PARKING DETAILS

SCALE 1:200

KEY

- PROPOSED CONTOURS
- KERB ALIGNMENT
- LIMIT OF WORKS
- SITE BOUNDARY

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG		
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171
LOT 1 & 2 DP 525996

STATE SIGNIFICANT DEVELOPMENT APPLICATION

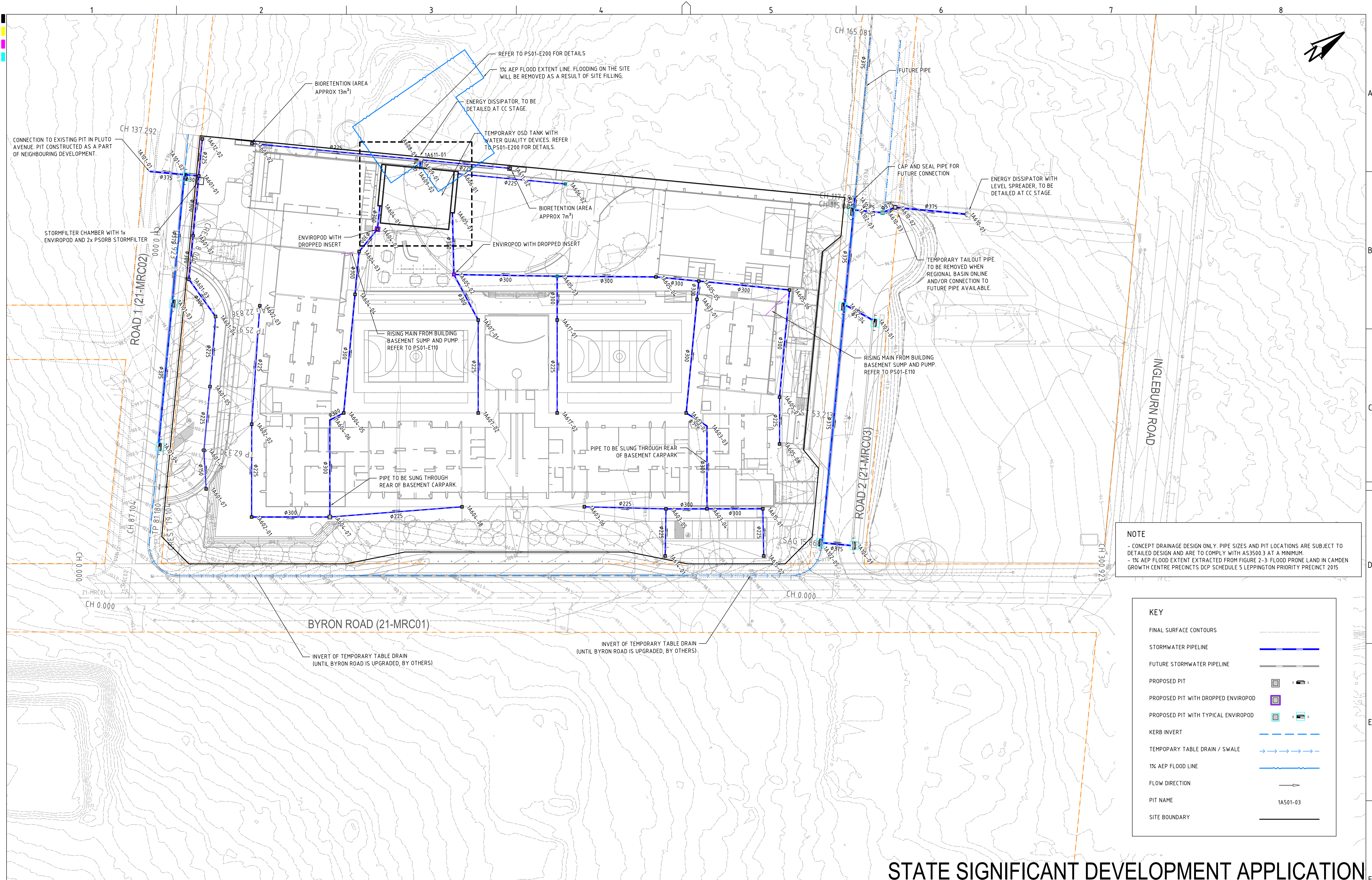
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DRAWING TITLE				
ROADWORKS DETAILS PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-D300	F

DRAWING ID: P18064.93-PS01-R11-D300



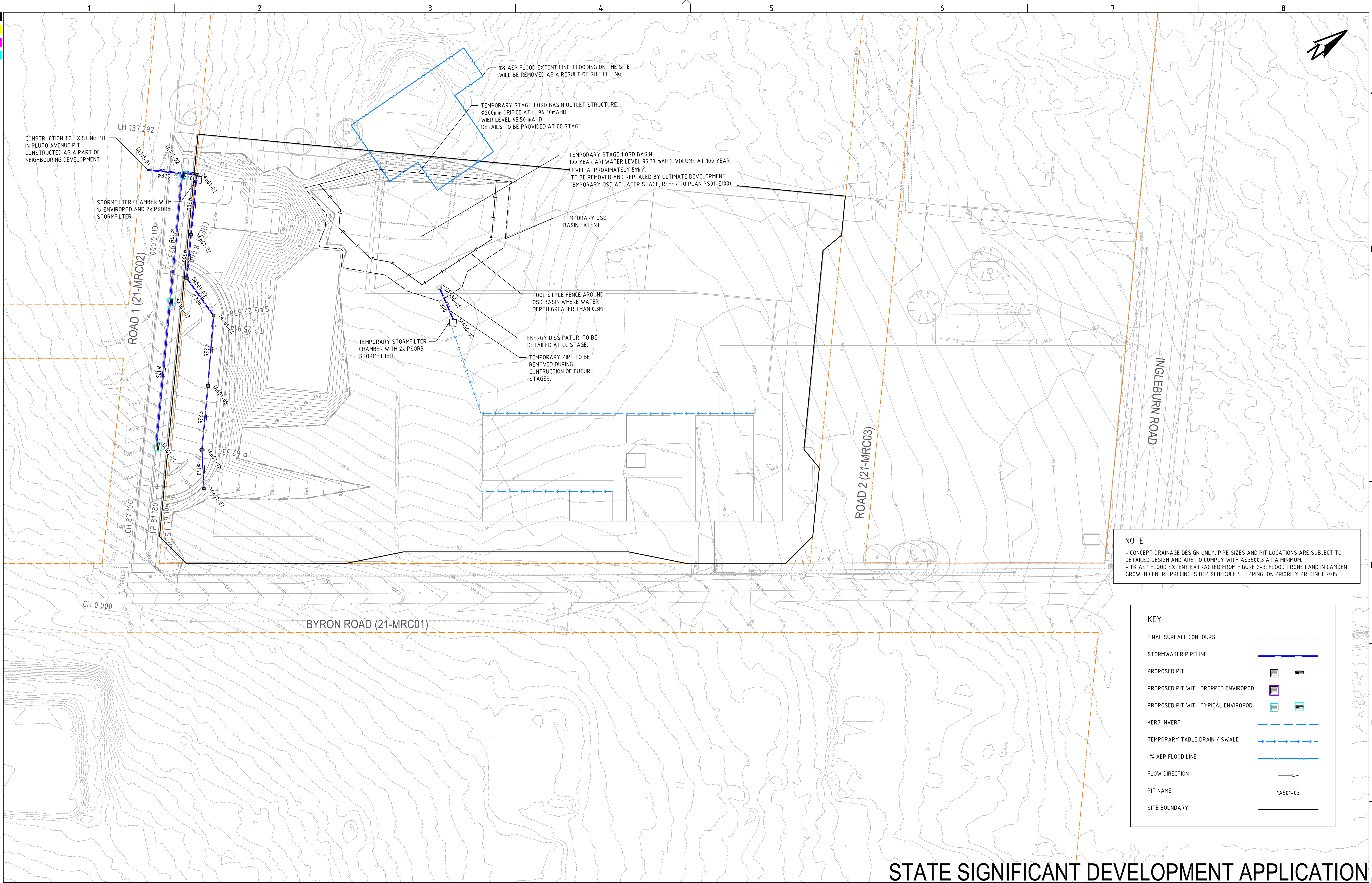
REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPROV	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE				
I	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH		MGA	mAHD	TH	AMITY COLLEGE	 Consulting Engineers Environment Water Geotechnical Civil Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au	DRAINAGE PLAN (ULTIMATE DEVELOPMENT)			
H	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH		PROJECT NAME/PLANSET TITLE			PROJECT NO.		PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
G	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH		AMITY COLLEGE LEPPINGTON CAMPUS			P18064.93		PS01	R11	PS01-E100	I
F	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH		CIVIL WORKS PLAN								
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH		63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996								
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH										
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG											
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG												

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A1 / A3 LANDSCAPE (A1/L, v2.0.0)

DRAWING ID: P18064.93-PS01-R11-E100

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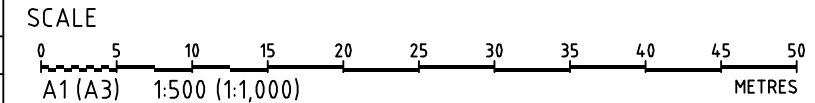
NOTE

- CONCEPT DRAINAGE DESIGN ONLY. PIPE SIZES AND PIT LOCATIONS ARE SUBJECT TO DETAILED DESIGN AND ARE TO COMPLY WITH AS3500.3 AT A MINIMUM.
- 1% AEP FLOOD EXTENT EXTRACTED FROM FIGURE 2-3: FLOOD PRONE LAND IN CAMDEN GROWTH CENTRE PRECINCTS DCP SCHEDULE 5 LEPPINGTON PRIORITY PRECINCT 2015

KEY	
FINAL SURFACE CONTOURS	
STORMWATER PIPELINE	
PROPOSED PIT	
PROPOSED PIT WITH DROPPED ENVIROPOD	
PROPOSED PIT WITH TYPICAL ENVIROPOD	
KERB INVERT	
TEMPORARY TABLE DRAIN / SWALE	
1% AEP FLOOD LINE	
FLOW DIRECTION	
PIT NAME	1A501-03
SITE BOUNDARY	

STATE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
E	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
D	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
C	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
B	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
A	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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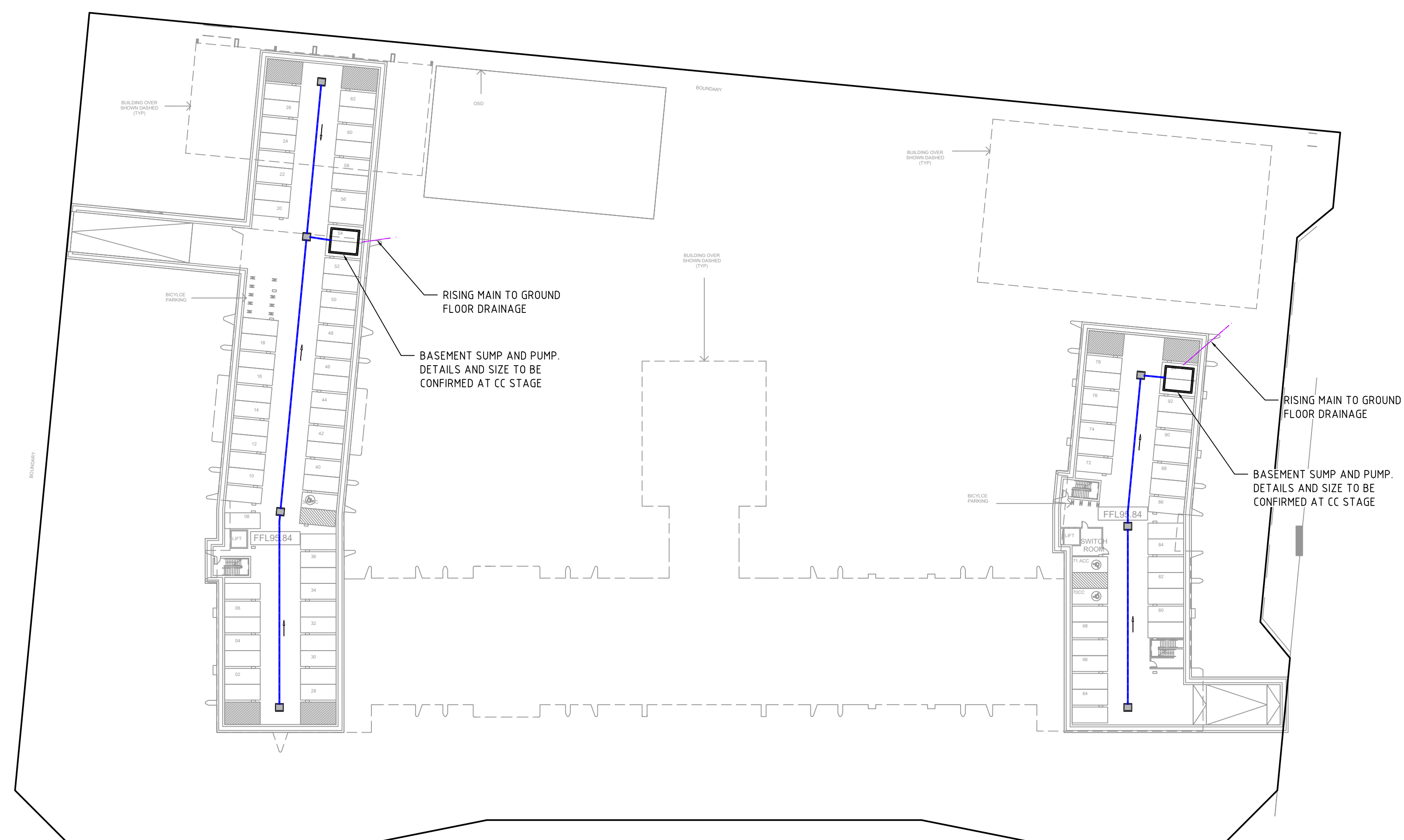
PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
63 INGLESBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996

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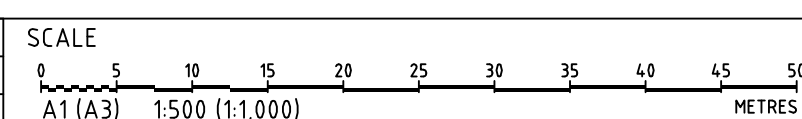
DRAWING TITLE				
DRAINAGE PLAN (STAGE 1)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-E101	F



NOTE

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- 1% AEP FLOOD EXTENT EXTRACTED FROM FIGURE 2-3: FLOOD PRONE LAND IN CAMDEN GROWTH CENTRE PRECINCTS DCP SCHEDULE 5 LEPPINGTON PRIORITY PRECINCT 2015

KEY	
FINAL SURFACE CONTOURS	
STORMWATER PIPELINE	
FUTURE STORMWATER PIPELINE	
PROPOSED PIT	 
PROPOSED PIT WITH DROPPED ENVIROPOD	
PROPOSED PIT WITH TYPICAL ENVIROPOD	 
KERB INVERT	
TEMPORARY TABLE DRAIN / SWALE	
1% AEP FLOOD LINE	
FLOW DIRECTION	
PIT NAME	1A501-03
SITE BOUNDARY	

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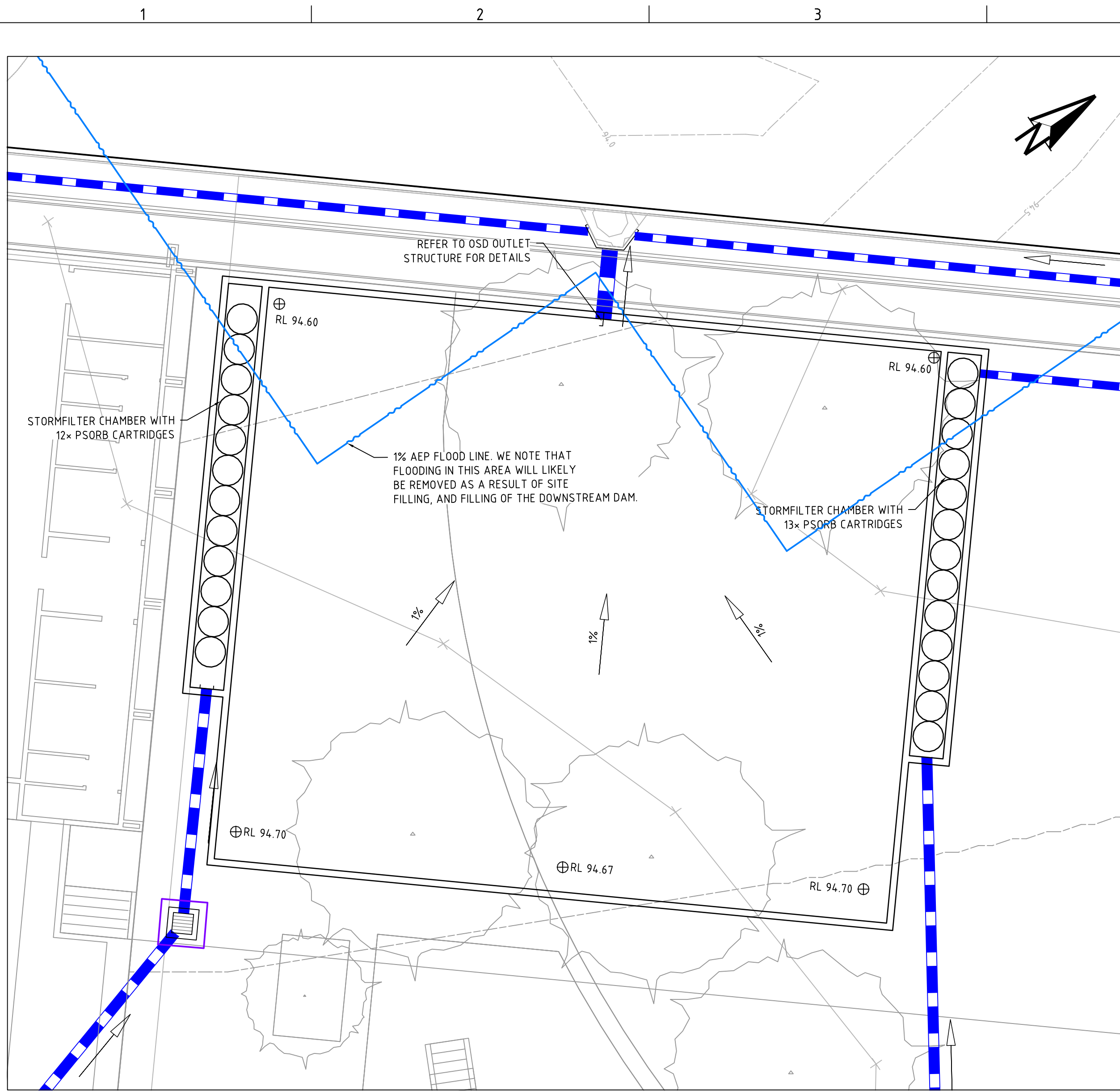
GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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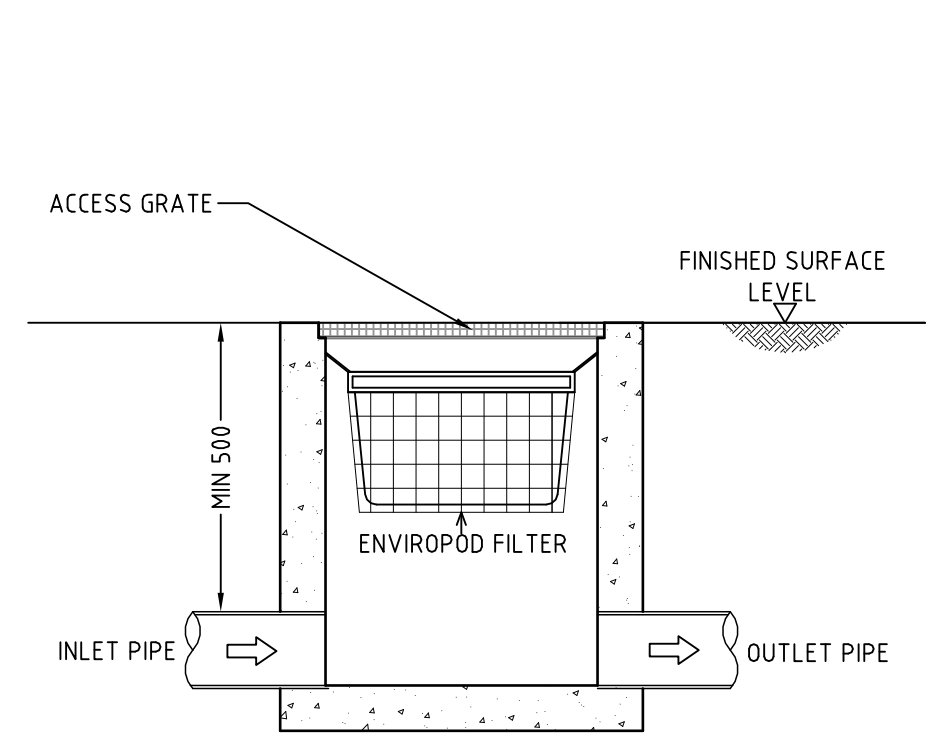
DRAWING TITLE				
<p style="text-align: center;">BASEMENT FLOOR PLAN (ULTIMATE DEVELOPMENT)</p>				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-E110	B

STATE SIGNIFICANT DEVELOPMENT APPLICATION



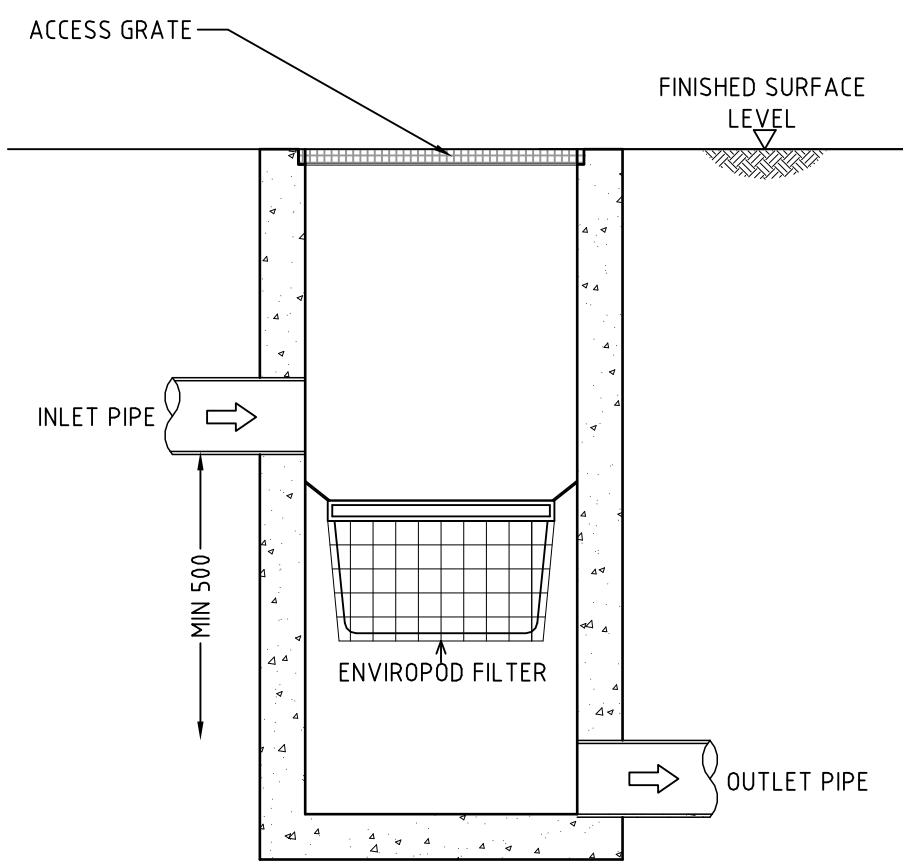
TEMPORARY OSD TANK PLAN

SCALE: 1:100



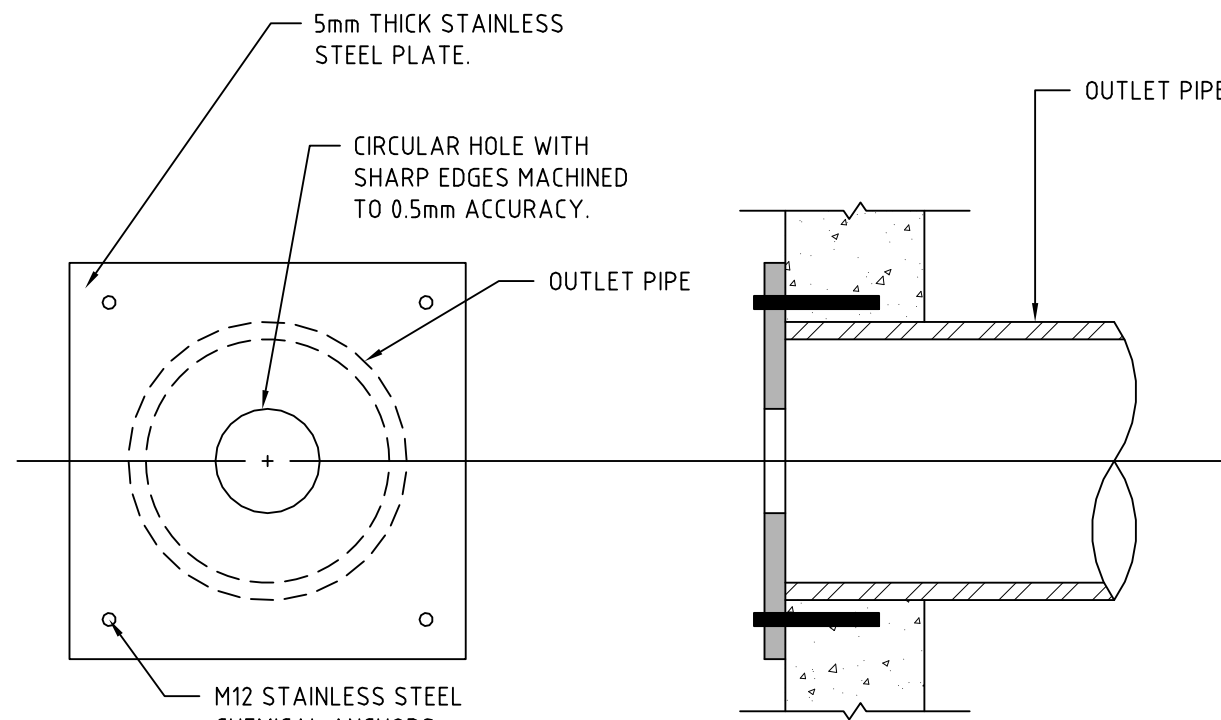
TYPICAL ENVIROPOD PIT INSERT 200 MICRON

SCALE: 1:25



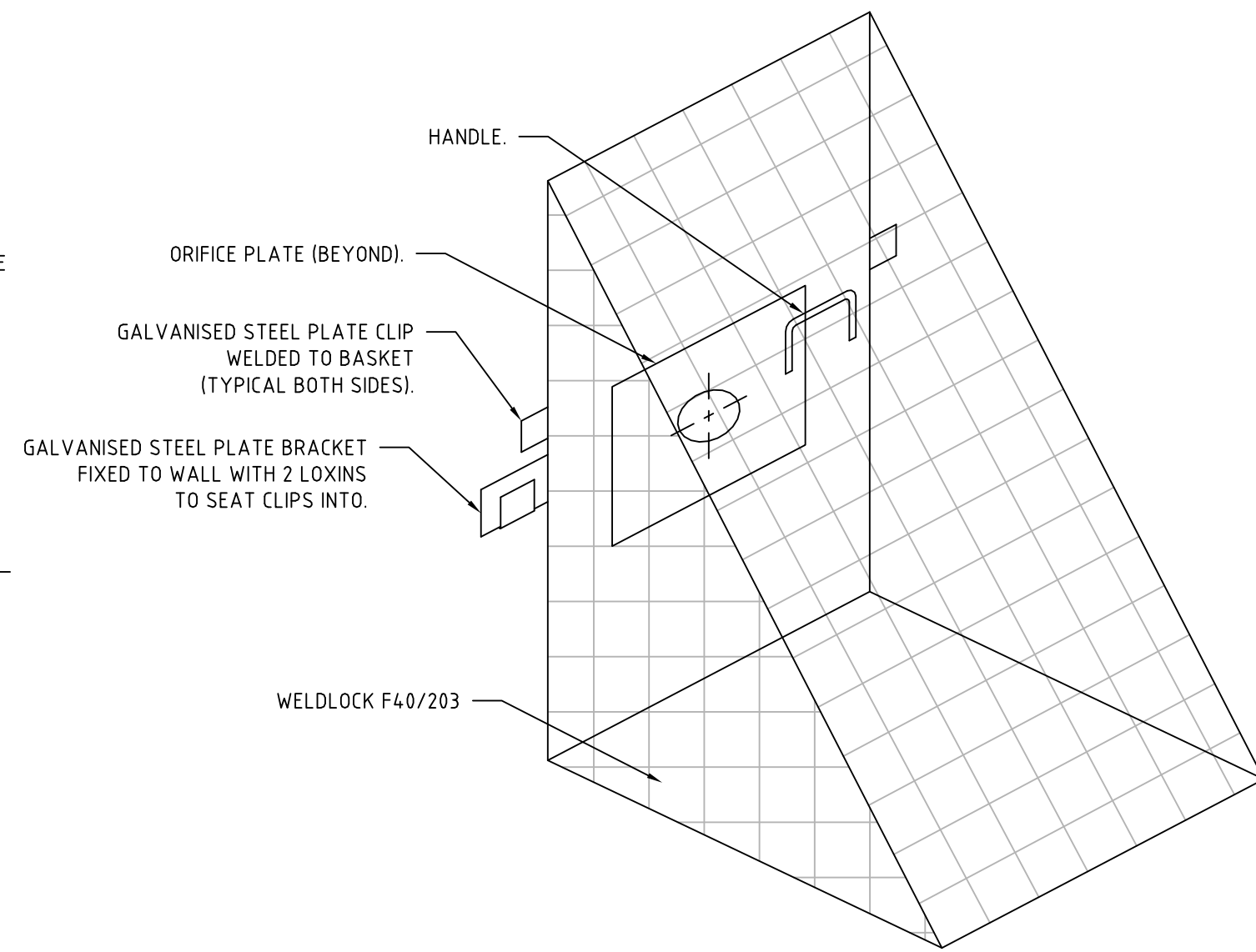
DROPPED ENVIROPOD PIT INSERT 200 MICRON

SCALE: 1:25



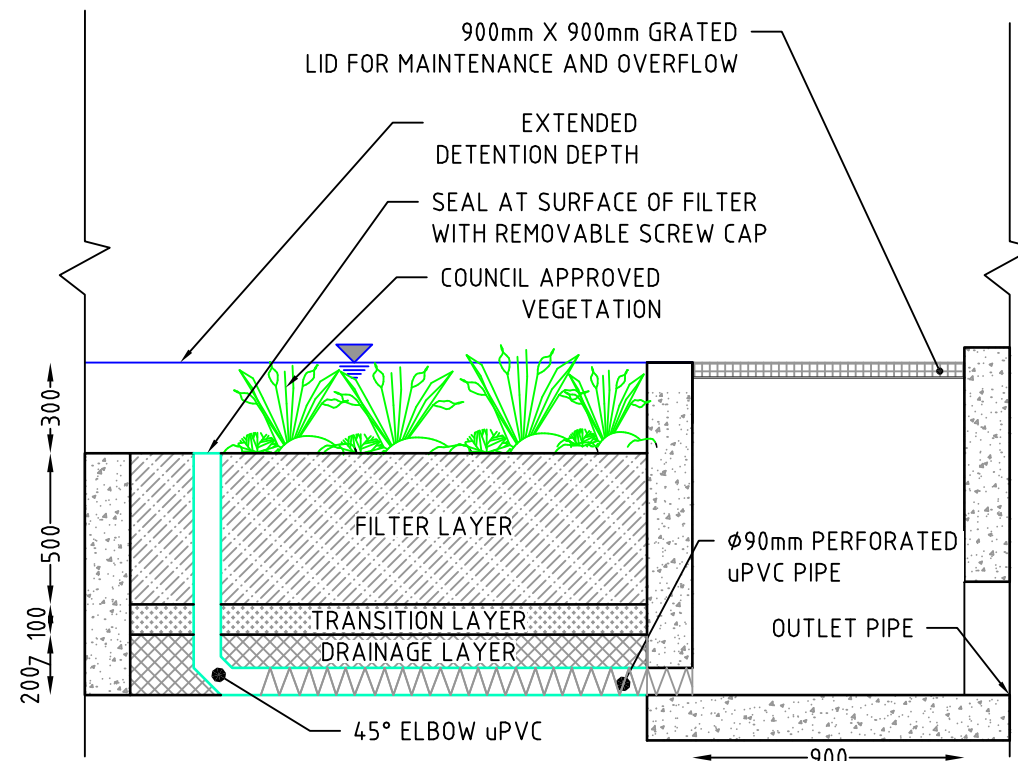
TYPICAL ORIFICE PLATE DETAIL

NOT TO SCALE



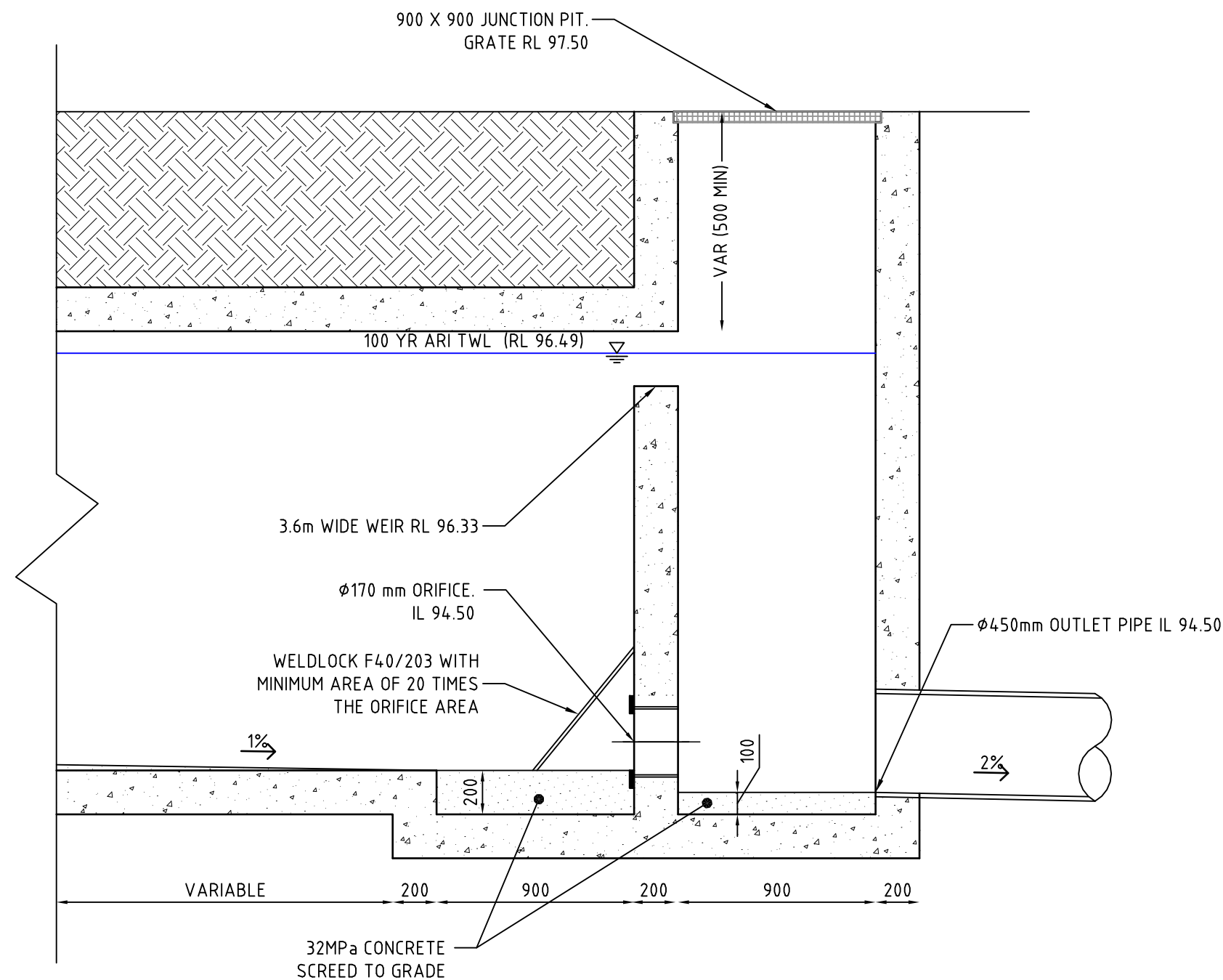
TRASH SCREEN DETAILS

NOT TO SCALE



TYPICAL SECTION: BIORETENTION

SCALE: 1:25



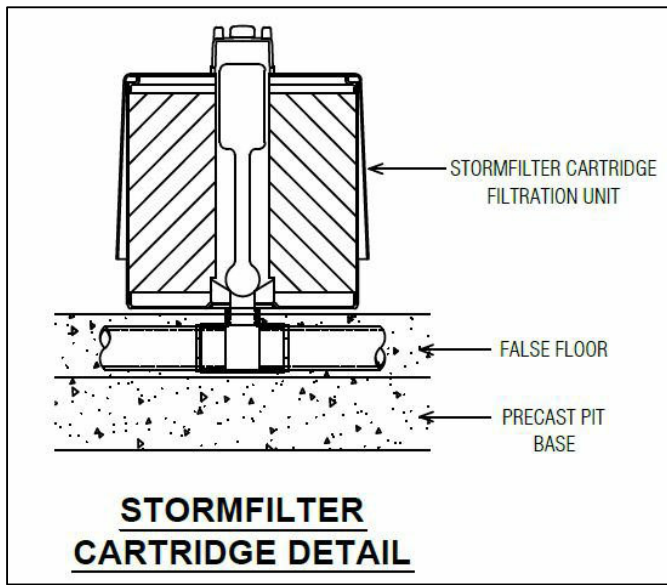
OSD OUTLET STRUCTURE

SCALE: 1:25



CONFINED SPACE SIGN

NOT TO SCALE



STORMFILTER CARTRIDGE DETAIL

NOT TO SCALE

STATE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE
G	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH	0 1 2 3 4 5 6 7 8 9 10 METRES	MGA	mAHD	TH	AMITY COLLEGE	OSD AND DRAINAGE DETAILS
F	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH	A1 (A3) 1:100 (1:200)				PROJECT NAME/PLANSET TITLE	PROJECT NO.
E	AMENDED FORM CLIENT COMMENTS	23/01/2019	CG/PD	CG/PD	TH	TH	0 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00 2.25 2.50 METRES				AMITY COLLEGE LEPPINGTON CAMPUS	PLANSET NO.
D	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH	A1 (A3) 1:25 (1:50)				CIVIL WORKS PLAN	RELEASE NO.
C	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH					63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171	DRAWING NO.
B	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG						LOT 1 & 2 DP 525996	REVISION
A	MINOR AMENDMENT	16/04/2019	GM	CG/DG	CG/DG							G

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DRAWING ID: P1806493-PS01-R11-E200

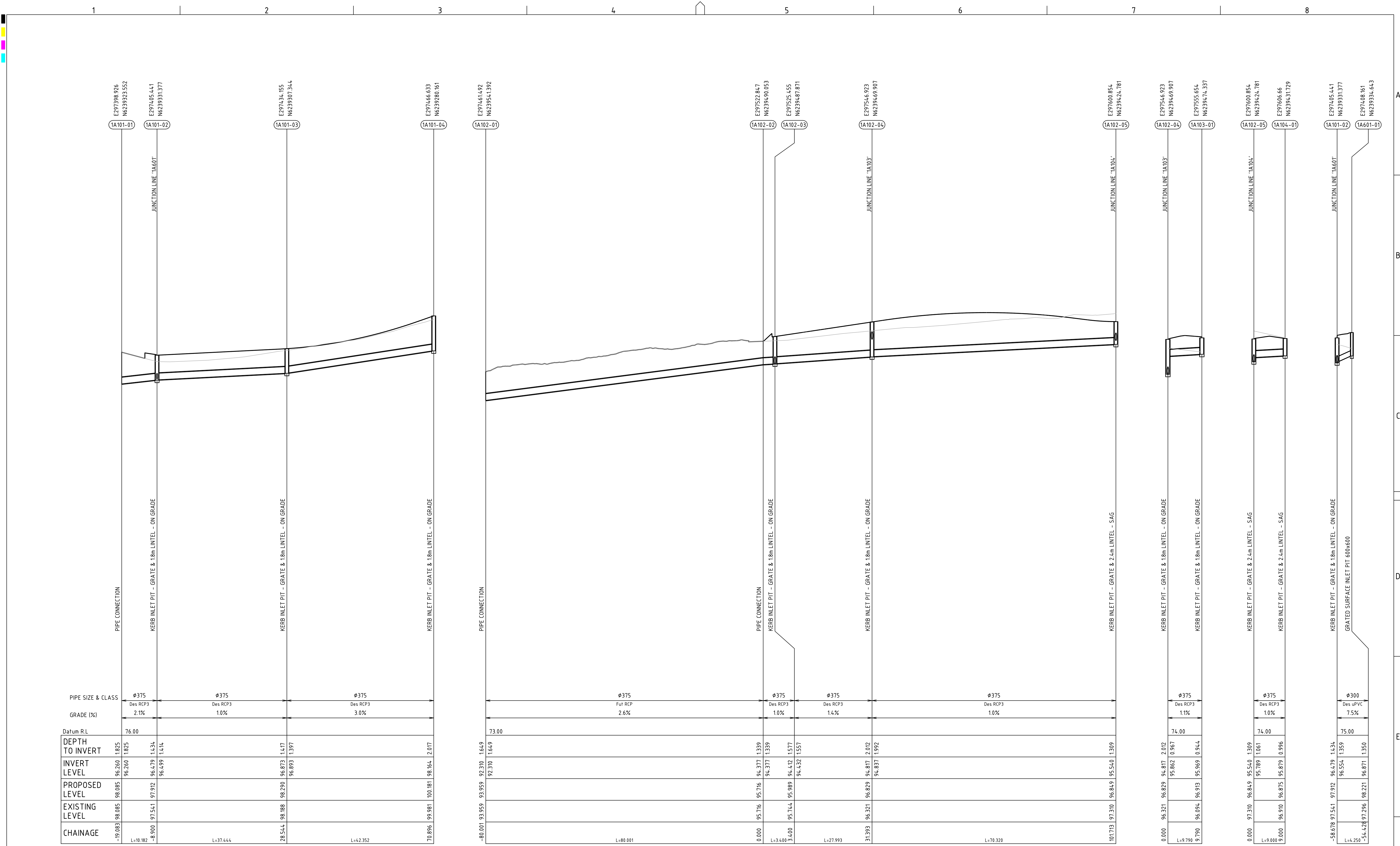
PROJECT NO. P1806493

PLANSET NO. PS01

RELEASE NO. R11

DRAWING NO. PS01-E200

REVISION G



NOTE: LINE 1A101

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LINE 1A102

LINE 1A103 LINE 1A104 LINE 1A601

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG		
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	

SCALE

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

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

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE

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PROJECT NAME/PLANSET TITLE

AMITY COLLEGE LEPPINGTON CAMPUS

CIVIL WORKS PLAN

63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171

LOT 1 & 2 DP 525996

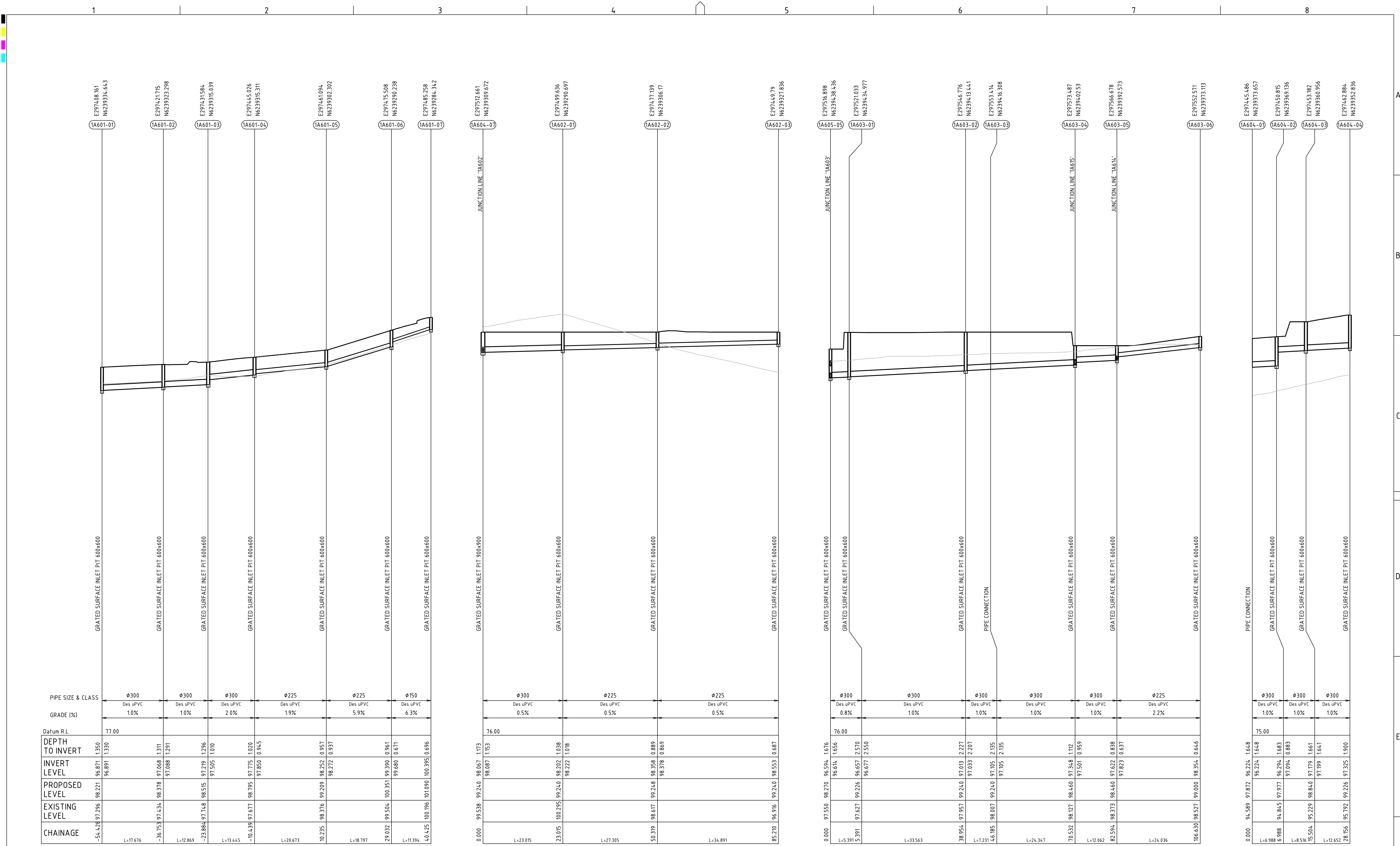
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DRAWING TITLE			
DRAINAGE LONGITUDINAL SECTIONS (SHEET 1)			
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.
P18064.93	PS01	R11	PS01-E300
REVISION			
F			



NOTE: LINE 1A601

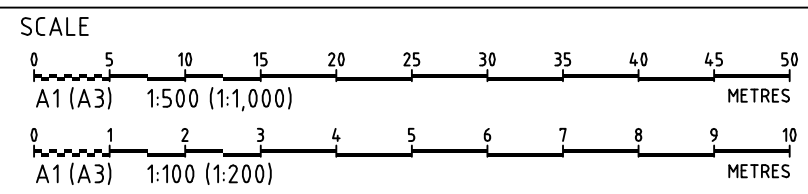
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LINE 1A602

LINE 1A603

LINE 1A604

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG		
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	



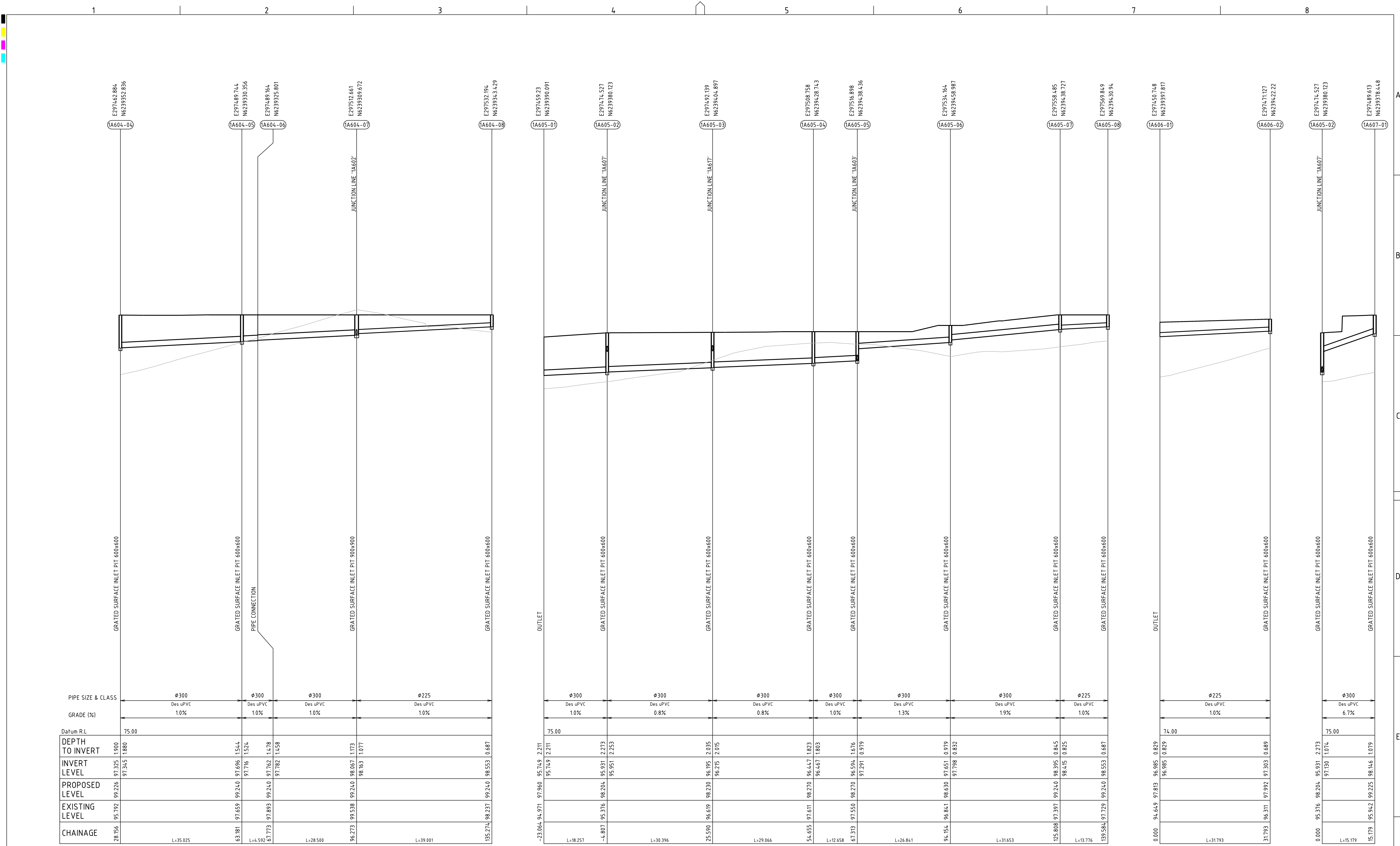
GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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PROJECT NAME/PLANSET TITLE			
AMITY COLLEGE LEPPINGTON CAMPUS			
CIVIL WORKS PLAN			
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171			
LOT 1 & 2 DP 525996			

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DRAWING TITLE				
DRAINAGE LONGITUDINAL SECTIONS (SHEET 2)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-E301	F



NOTE:

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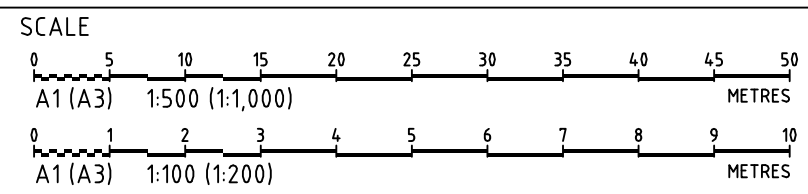
LINE 1A604

LINE 1A605

LINE 1A606

LINE 1A607

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
E	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
C	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
B	MINOR AMENDMENT	16/04/2019	GM	CG/DG		
A	INITIAL RELEASE	05/04/2019	GM	CG/DG	TH	



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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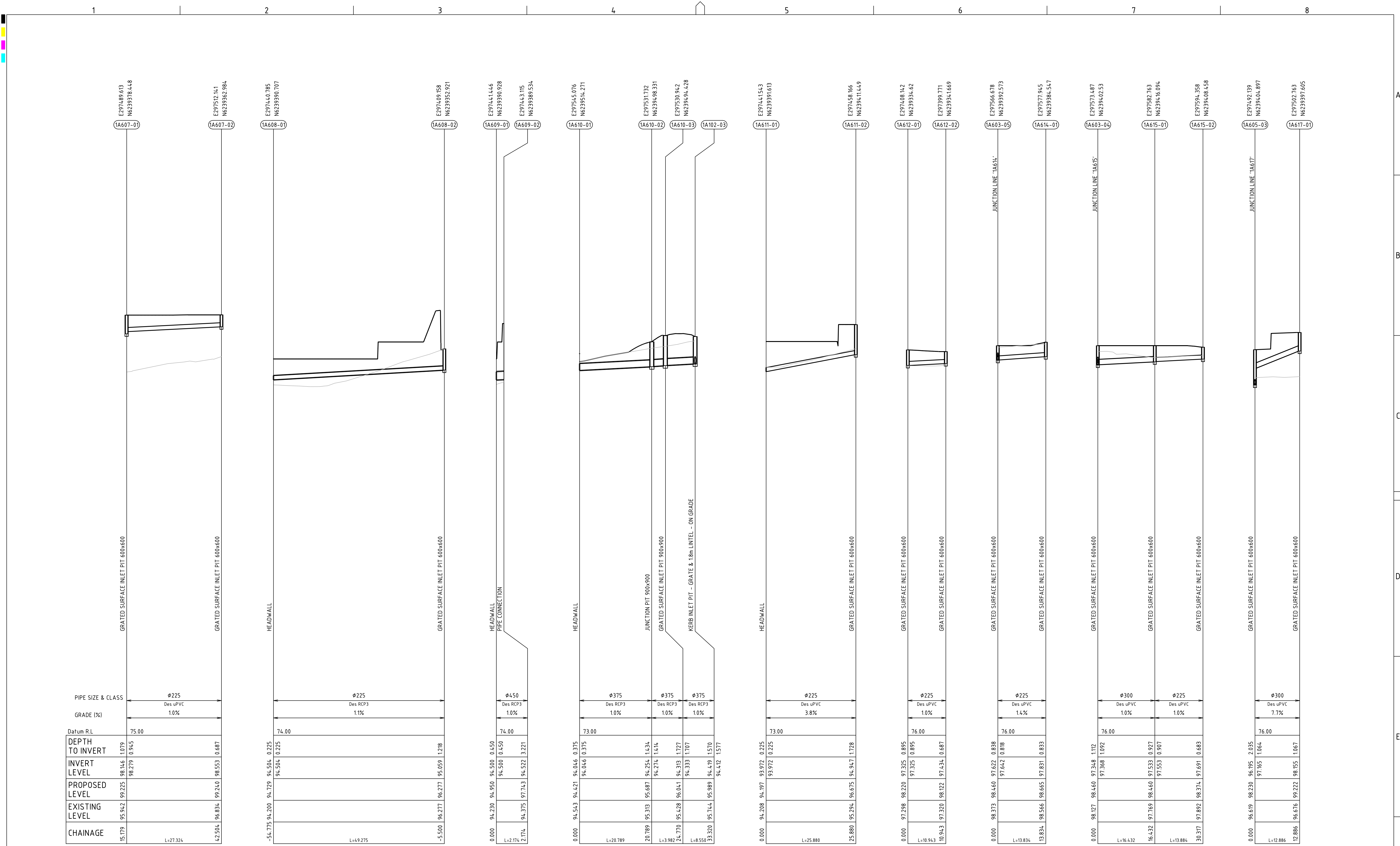
PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS
CIVIL WORKS PLAN
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171
LOT 1 & 2 DP 525996



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DRAWING TITLE				
DRAINAGE LONGITUDINAL SECTIONS (SHEET 3)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-E302	F



NOTE: LINE 1A607

LINE 1A608

LINE 1A609

LINE 1A610

LINE 1A611

LINE 1A612

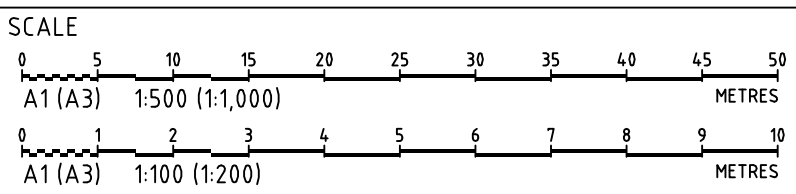
LINE 1A614

LINE 1A615

LINE 1A617

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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
E	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
D	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
C	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
B	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
A	MINOR AMENDMENT	16/04/2019	GM	CG/DG		



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996

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DRAWING TITLE				
DRAINAGE LONGITUDINAL SECTIONS (SHEET 4)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P18064.93	PS01	R11	PS01-E303	E

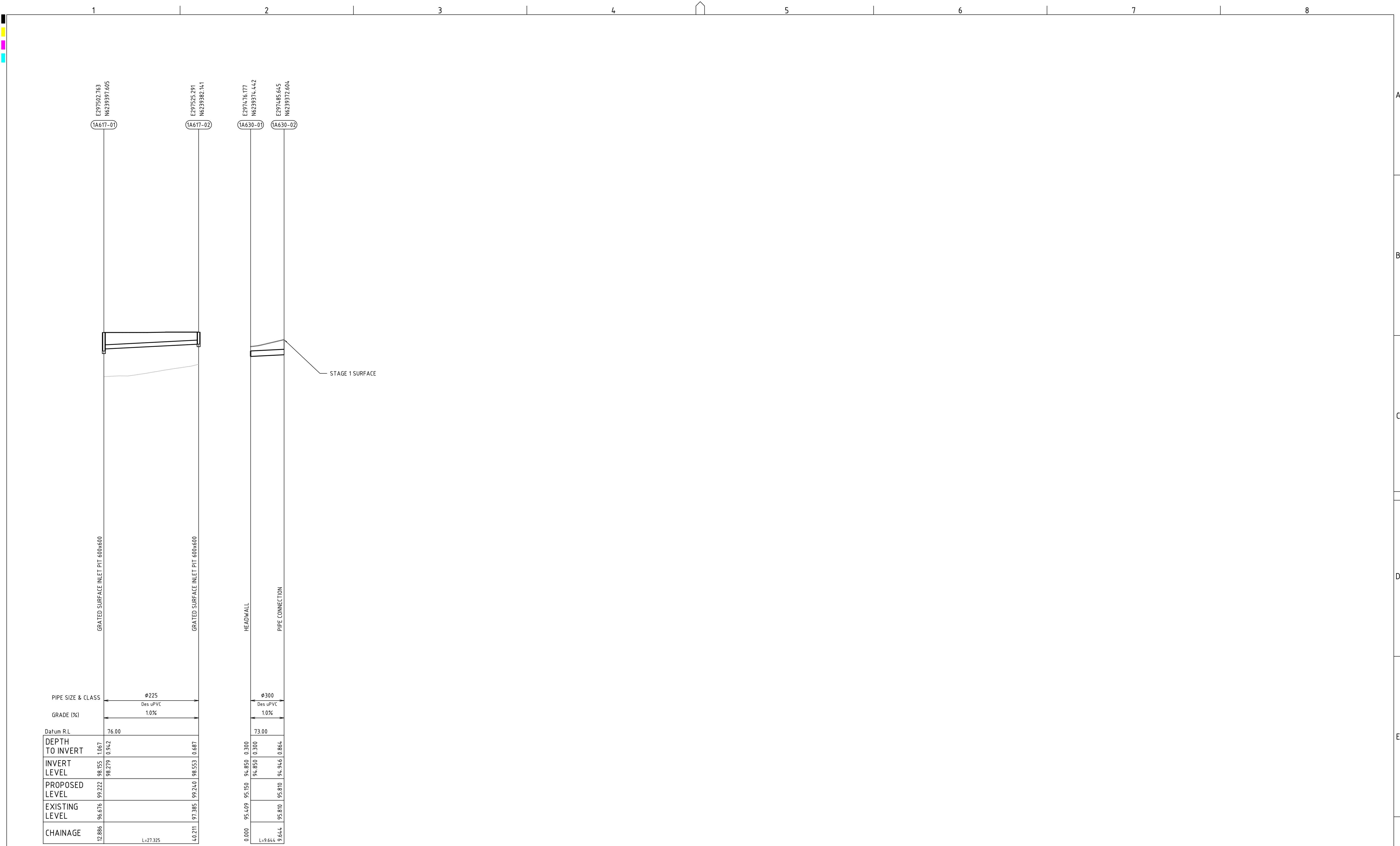
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PRINTED: 1:00 PM 11/07/2019

A1 / A3 LANDSCAPE (A1LC_v02.0.01)

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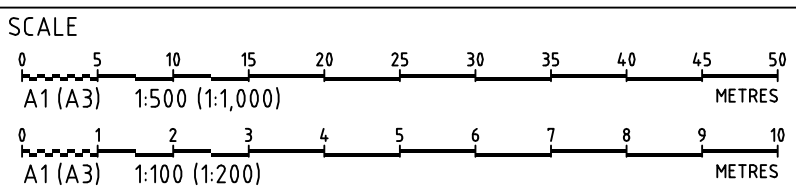
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NOTE: **LINE 1A617** **LINE 1A630**

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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
E	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
D	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
C	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
B	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
A	MINOR AMENDMENT	16/04/2019	GM	CG/DG	CG/DG	



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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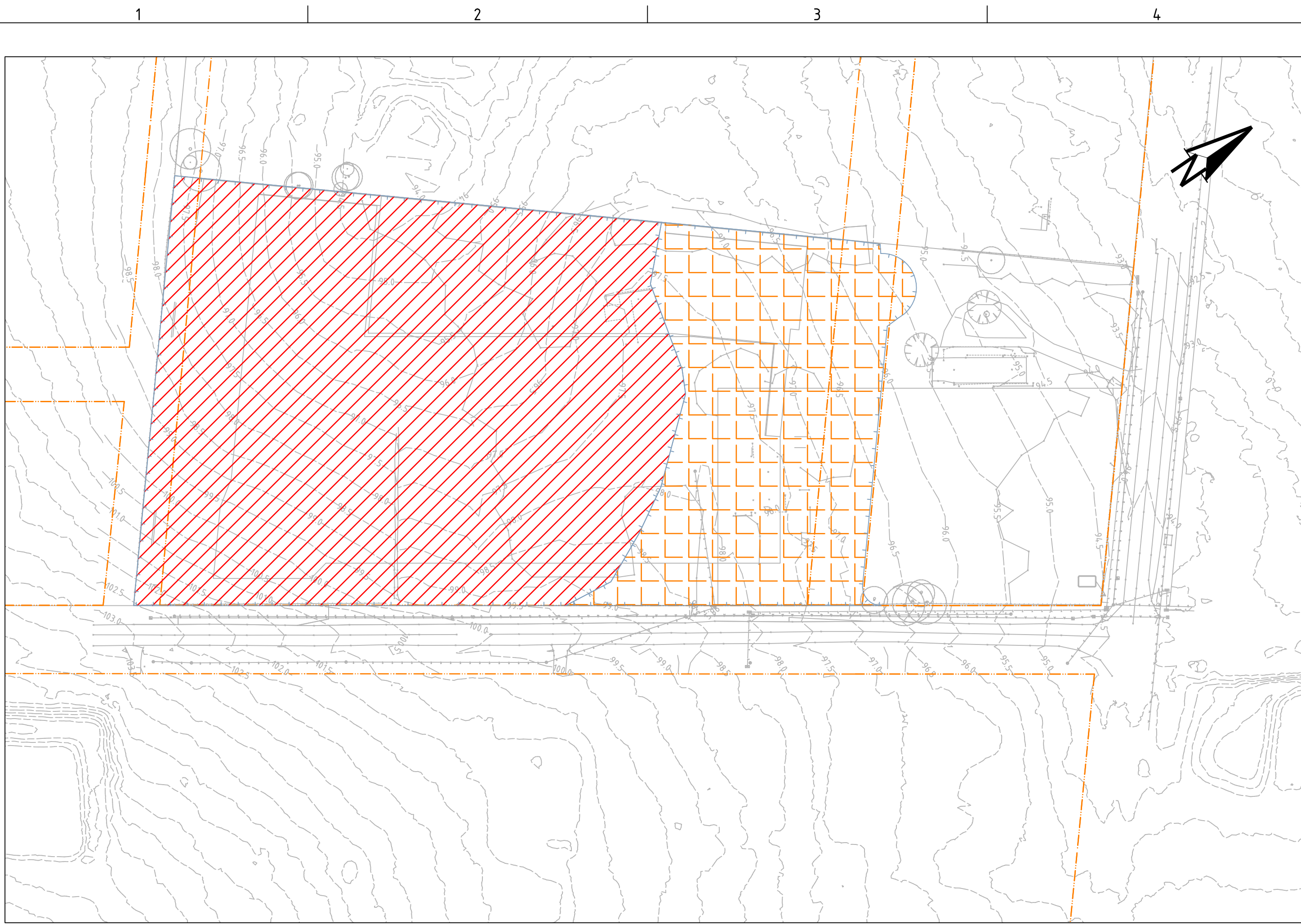
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DRAWING TITLE				
DRAINAGE LONGITUDINAL SECTIONS (SHEET 5) & PIT SCHEDULE				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-E304	F

Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A101-04	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297466.633	6239280.161	0.90	0.90	-	-	375	98.164	100.181	2.017	xy setout to setout string
1A101-03	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297436.155	6239307.344	0.90	0.90	375	96.893	375	96.873	98.290	1.417	xy setout to setout string
1A101-02	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297405.441	6239331.377	0.90	0.90	375	96.499	375	96.479	97.912	1.434	xy setout to setout string
1A101-01	PIPE CONNECTION	297398.926	6239323.552	0.00	0.00	375	96.260	-	-	98.085	1.825	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A102-05	KERB INLET PIT - GRATE & 2.4m LINTEL - SAG	297600.854	6239424.781	0.90	0.90	-	-	375	95.540	96.849	1.309	xy setout to setout string
1A102-04	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297546.923	6239469.907	0.90	0.90	375	94.837	375	94.817	96.829	2.012	xy setout to setout string
1A102-03	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297525.455	6239487.871	0.90	0.90	375	94.432	375	94.412	95.989	1.577	xy setout to setout string
1A102-02	PIPE CONNECTION	297522.847	6239490.053	0.00	0.00	375	94.377	375	94.377	95.716	1.339	
1A102-01	PIPE CONNECTION	297461.492	6239541.392	0.00	0.00	375	92.310	-	-	93.959	1.649	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A103-01	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297555.654	6239474.337	0.90	0.90	-	-	375	95.969	96.913	0.944	xy setout to setout string
1A102-04	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297546.923	6239469.907	0.90	0.90	375	95.862	-	-	96.829	2.012	xy setout to setout string
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A104-01	KERB INLET PIT - GRATE & 2.4m LINTEL - SAG	297606.660	6239431.729	0.90	0.90	-	-	375	95.879	96.875	0.996	xy setout to setout string
1A102-05	KERB INLET PIT - GRATE & 2.4m LINTEL - SAG	297600.854	6239424.781	0.90	0.90	375	95.789	-	-	96.849	1.309	xy setout to setout string
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A601-07	GRATED SURFACE INLET PIT 600x600	297485.258	6239284.342	0.60	0.60	-	-	150	100.395	101.090	0.696	
1A601-06	GRATED SURFACE INLET PIT 600x600	297475.508	6239290.238	0.60	0.60	150	99.680	225	99.390	100.351	0.961	
1A601-05	GRATED SURFACE INLET PIT 600x600	297461.094	6239302.302	0.60	0.60	225	98.272	225	98.252	99.209	0.957	
1A601-04	GRATED SURFACE INLET PIT 600x600	297445.026	6239315.311	0.60	0.60	225	97.850	300	97.775	98.795	1.020	
1A601-03	GRATED SURFACE INLET PIT 600x600	297431.584	6239315.039	0.60	0.60	300	97.505	300	97.219	98.515	1.296	
1A601-02	GRATED SURFACE INLET PIT 600x600	297421.715	6239323.298	0.60	0.60	300	97.088	300	97.068	98.378	1.311	
1A601-01	GRATED SURFACE INLET PIT 600x600	297408.161	6239334.643	0.60	0.60	300	96.891	300	96.871	98.221	1.350	
1A101-02	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297405.441	6239331.377	0.90	0.90	300	96.554	-	-	97.912	1.434	xy setout to setout string
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	

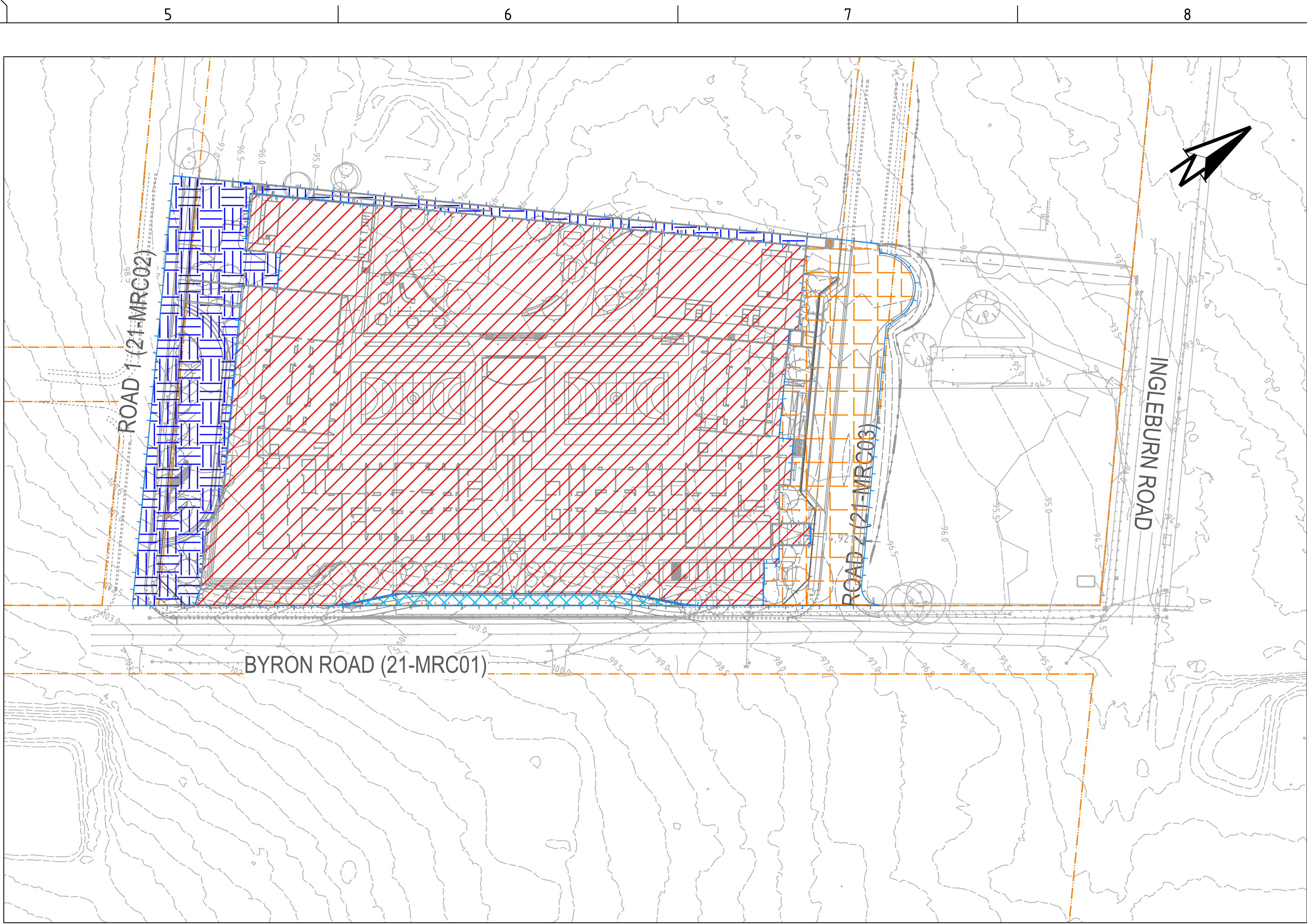
PIT				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A102-03	KERB INLET PIT - GRATE & 1.8m LINTEL - ON GRADE	297441.446	6239390.928	0.90	0.90	-	-	375	94.419	95.989	1.570	xy setout to setout string
1A610-03	GRATED SURFACE INLET PIT 900x900	297530.942	6239494.428	0.90	0.90	375	94.333	375	94.313	96.041	1.727	
1A610-02	JUNCTION PIT 900x900	297531.732	6239498.331	0.90	0.90	375	94.274	375	94.254	95.687	1.434	
1A610-01	HEADWALL	297545.076	6239514.271	0.00	0.00	375	94.046	-	-	94.421	0.375	setout level to maximum pipe obvert
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A611-02	GRATED SURFACE INLET PIT 600x600	297458.166	6239411.449	0.60	0.60	-	-	225	94.947	96.675	1.728	
1A611-01	HEADWALL	297441.543	6239391.613	0.00	0.00	225	93.972	-	-	94.197	0.225	setout level to maximum pipe obvert
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A612-02	GRATED SURFACE INLET PIT 600x600	297399.771	6239341.669	0.60	0.60	-	-	225	97.434	98.122	0.687	
1A601-01	GRATED SURFACE INLET PIT 600x600	297408.161	6239334.643	0.60	0.60	225	97.325	-	-	98.221	1.350	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A614-01	GRATED SURFACE INLET PIT 600x600	297577.945	6239384.547	0.60	0.60	-	-	225	97.831	98.665	0.833	
1A603-05	GRATED SURFACE INLET PIT 600x600	297566.678	6239392.573	0.60	0.60	225	97.642	-	-	98.460	0.838	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A615-02	GRATED SURFACE INLET PIT 600x600	297594.358	6239408.458	0.60	0.60	-	-	225	97.691	98.374	0.683	
1A615-01	GRATED SURFACE INLET PIT 600x600	297582.763	6239416.094	0.60	0.60	225	97.553	300	97.533	98.460	0.927	
1A603-04	GRATED SURFACE INLET PIT 600x600	297573.487	6239402.530	0.60	0.60	300	97.368	-	-	98.460	1.112	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A617-02	GRATED SURFACE INLET PIT 600x600	297525.291	6239382.141	0.60	0.60	-	-	225	98.553	99.240	0.687	
1A617-01	GRATED SURFACE INLET PIT 600x600	297502.763	6239397.605	0.60	0.60	225	98.279	300	98.155	99.222	1.067	
1A605-03	GRATED SURFACE INLET PIT 600x600	297492.139	6239404.897	0.60	0.60	300	97.165	-	-	98.230	2.035	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1A630-02	PIPE CONNECTION	297485.645	6239372.604	0.00	0.00	-	-	300	94.946	95.810	0.864	
1A630-01	HEADWALL	297476.177	6239374.442	0.00	0.00	300	94.850	-	-	95.150	0.300	setout level to maximum pipe obvert



PRE-DEVELOPMENT OSD CATCHMENT

SCALE 1: 1000

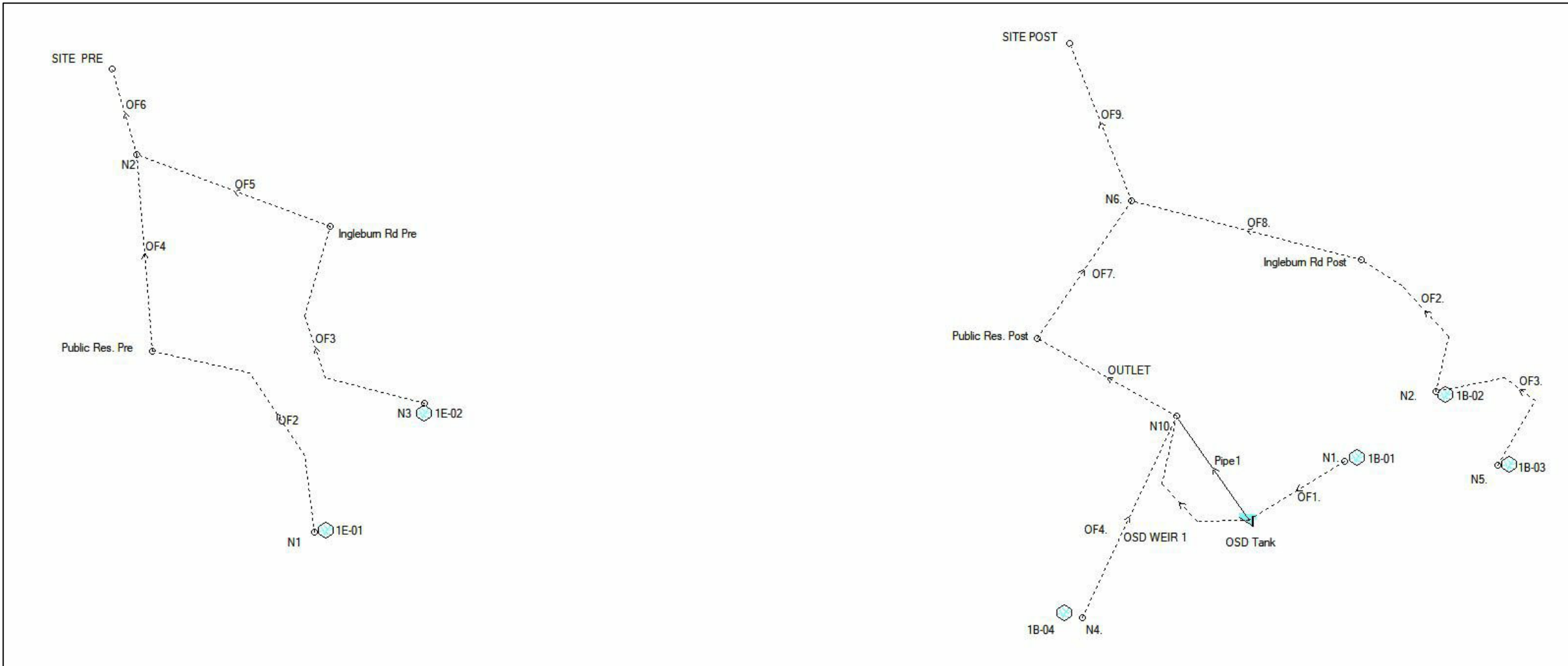
PRE DEVELOPMENT CATCHMENT (P1806493DRN01V06)			
KEY	DRAINS NODE	AREA (ha)	% PAVED
	1E-01	1.77	0%
	1E-02	0.73	8%
	TOTAL AREA	2.50	= 100% OF TOTAL AREA
	TOTAL IMPERVIOUS AREA	0.06	= %2 OF TOTAL AREA
	TOTAL PERVIOUS AREA	2.44	= %98 OF TOTAL AREA



POST-DEVELOPMENT OSD CATCHMENT PLAN

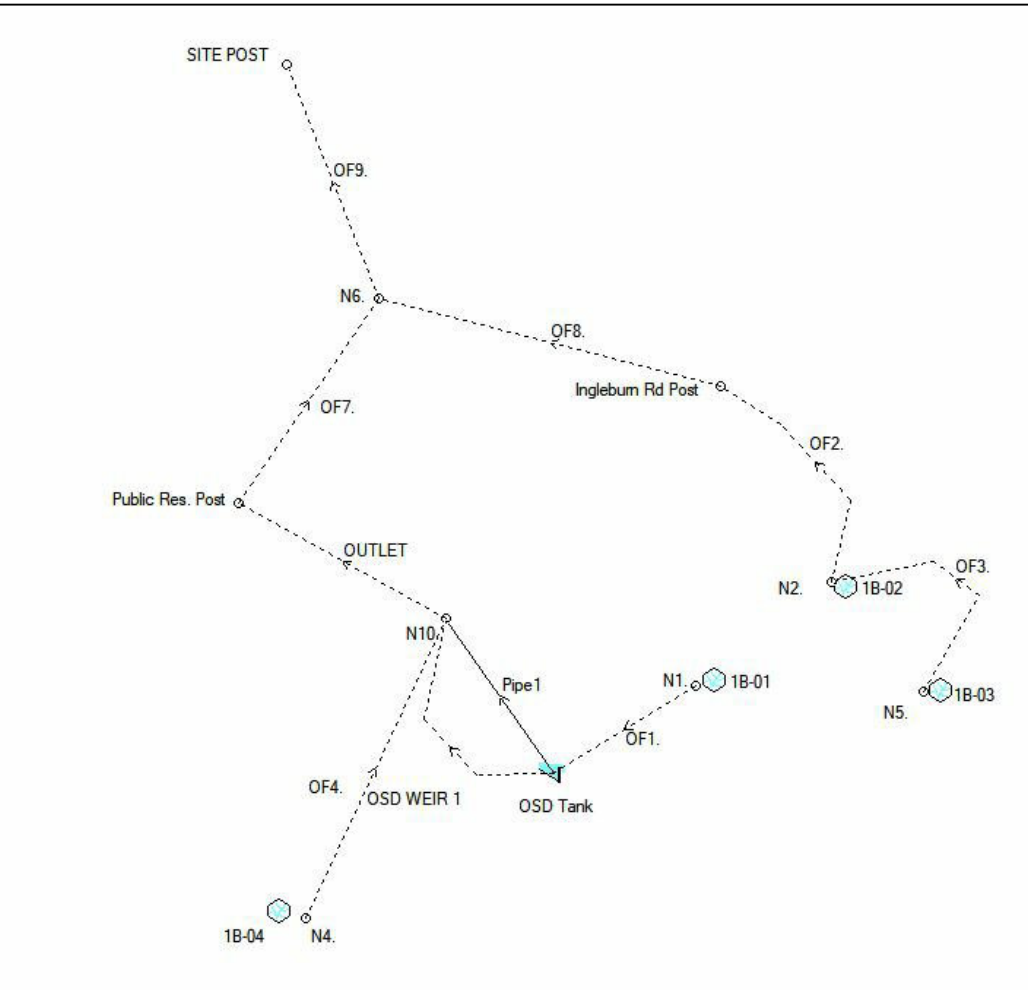
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POST DEVELOPMENT CATCHMENT (P1806493DRN01V08)			
KEY	DRAINS NODE	AREA (ha)	% PAVED
	1B-01	1.84	80%
	1B-02	0.29	80%
	1B-03	0.03	100%
	1B-04	0.34	80%
	TOTAL AREA	2.50	= 100% OF TOTAL AREA
	TOTAL IMPERVIOUS AREA	2.01	= %80 OF TOTAL AREA
	TOTAL PERVIOUS AREA	0.49	= %20 OF TOTAL AREA



PRE-DEVELOPMENT DRAIN MODEL LAYOUT

NTS



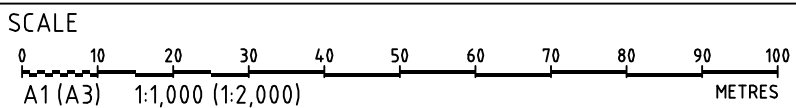
POST-DEVELOPMENT DRAIN MODEL LAYOUT

NTS

P1806493DRN01V08																	
2 YR ARI			5 YR ARI			10 YR ARI			20 YR ARI			50 YR ARI			100 YR ARI		
	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak
Storm	Flow (cu.m/s)	Flow (cu.m/s)	(cu.m/s)	Flow (cu.m/s)	Flow (cu.m/s)	(cu.m/s)	Flow (cu.m/s)	Flow (cu.m/s)	(cu.m/s)	Flow (cu.m/s)	Flow (cu.m/s)	(cu.m/s)	Flow (cu.m/s)	Flow (cu.m/s)	(cu.m/s)	Flow (cu.m/s)	Flow (cu.m/s)
Peak	0.197	0.194	-0.003	0.346	0.252	-0.094	0.421	0.284	-0.137	0.532	0.328	-0.204	0.610	0.417	-0.193	0.710	0.658

STATE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
H	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
G	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
F	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
E	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
D	AMENDED FORM REVISED ARCHITECTURAL PLANS	11/07/2019	GM	CG/PD	CG/PD	TH
C	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
B	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	TH
A	MINOR AMENDMENT	16/04/2019	GM	CG/DG		



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
63 INGLESBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171
L01 1 & 2 DP 525996

	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	

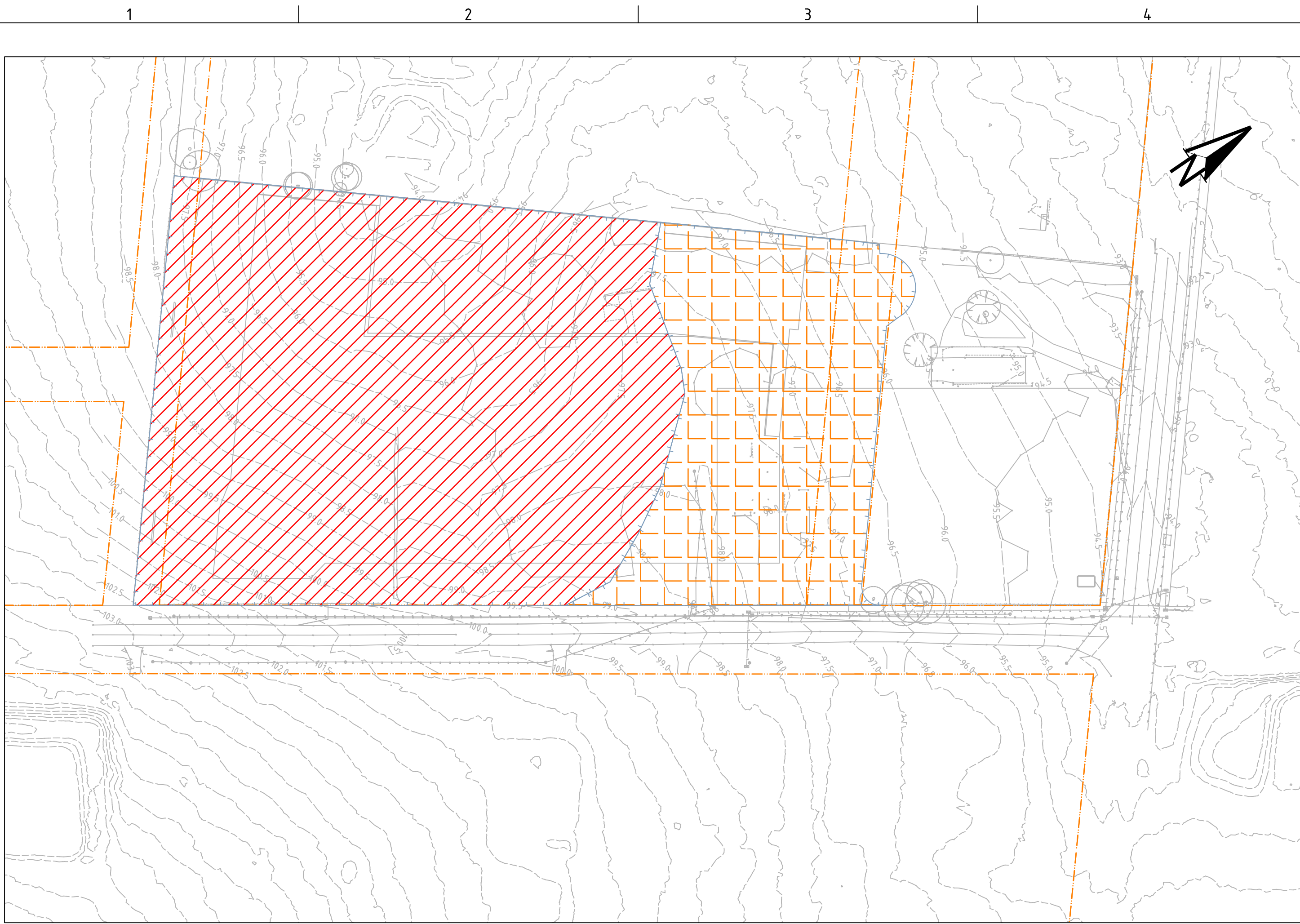
DRAWING TITLE				
POST-DEVELOPMENT OSD CATCHMENT PLAN, MODEL LAYOUT AND RESULT (ULTIMATE STAGE)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-E610	H

PRINTED: 11/05/2020 11:00:00

A17 A3 LANDSCAPE (A17C_V02.0.01)

DRAWING ID: P1806493-PS01-R11-E610

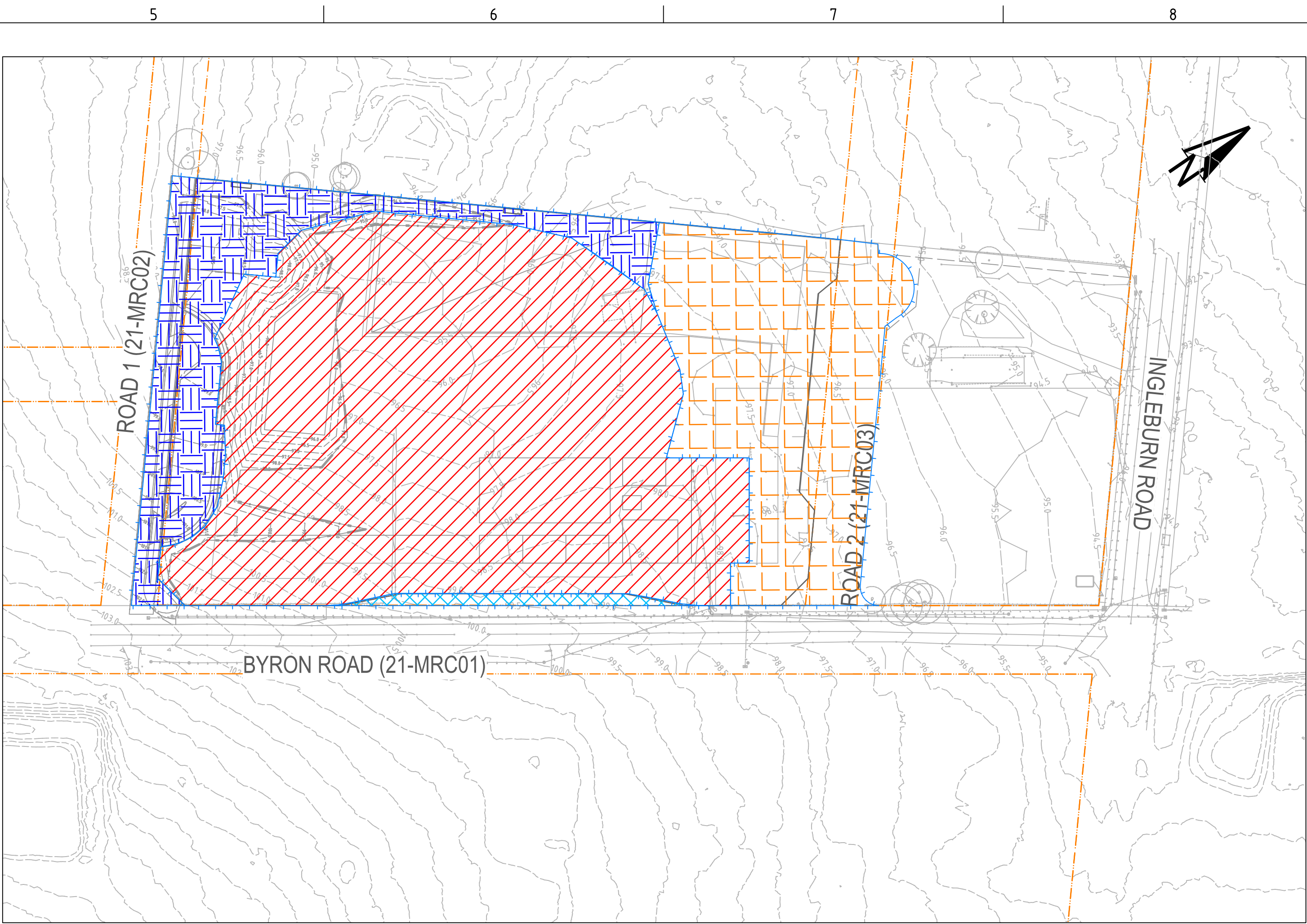
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PRE-DEVELOPMENT OSD CATCHMENT

SCALE 1: 1000

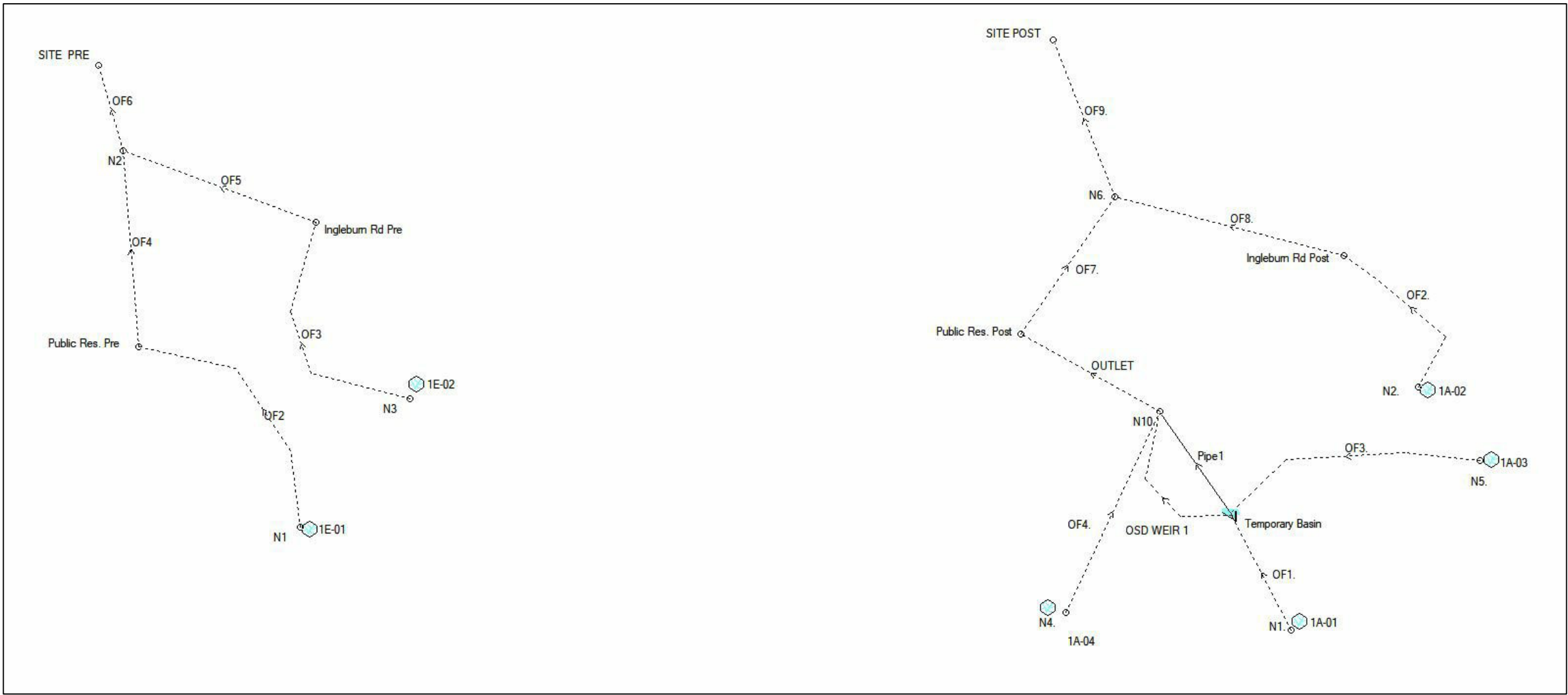
PRE DEVELOPMENT CATCHMENT (P1806493DRN01V06)			
KEY	DRAINS NODE	AREA (ha)	% PAVED
	1E-01	1.77	0%
	1E-02	0.73	8%
	TOTAL AREA	2.50	= 100% OF TOTAL AREA
	TOTAL IMPERVIOUS AREA	0.06	= %2 OF TOTAL AREA
	TOTAL PERVIOUS AREA	2.44	= %98 OF TOTAL AREA



STAGE 1 POST-DEVELOPMENT OSD CATCHMENT PLAN

SCALE 1: 1000

POST DEVELOPMENT CATCHMENT (P1806493DRN01V09)			
KEY	DRAINS NODE	AREA (ha)	% PAVED
	1A-01	1.51	13%
	1A-02	0.59	10%
	1A-03	0.03	0%
	1A-04	0.37	49%
	TOTAL AREA	2.50	= 100% OF TOTAL AREA
	TOTAL IMPERVIOUS AREA	0.44	= %17 OF TOTAL AREA
	TOTAL PERVIOUS AREA	2.06	= %83 OF TOTAL AREA



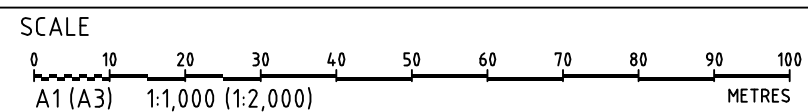
PRE-DEVELOPMENT DRAIN MODEL LAYOUT

NTS

STAGE 1 POST-DEVELOPMENT DRAIN MODEL LAYOUT

NTS

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
F	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
E	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH
D	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
C	AMENDED FORM CLIENT COMMENTS		GM	CG/PD	TH	TH
B	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	TH	TH
A	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH

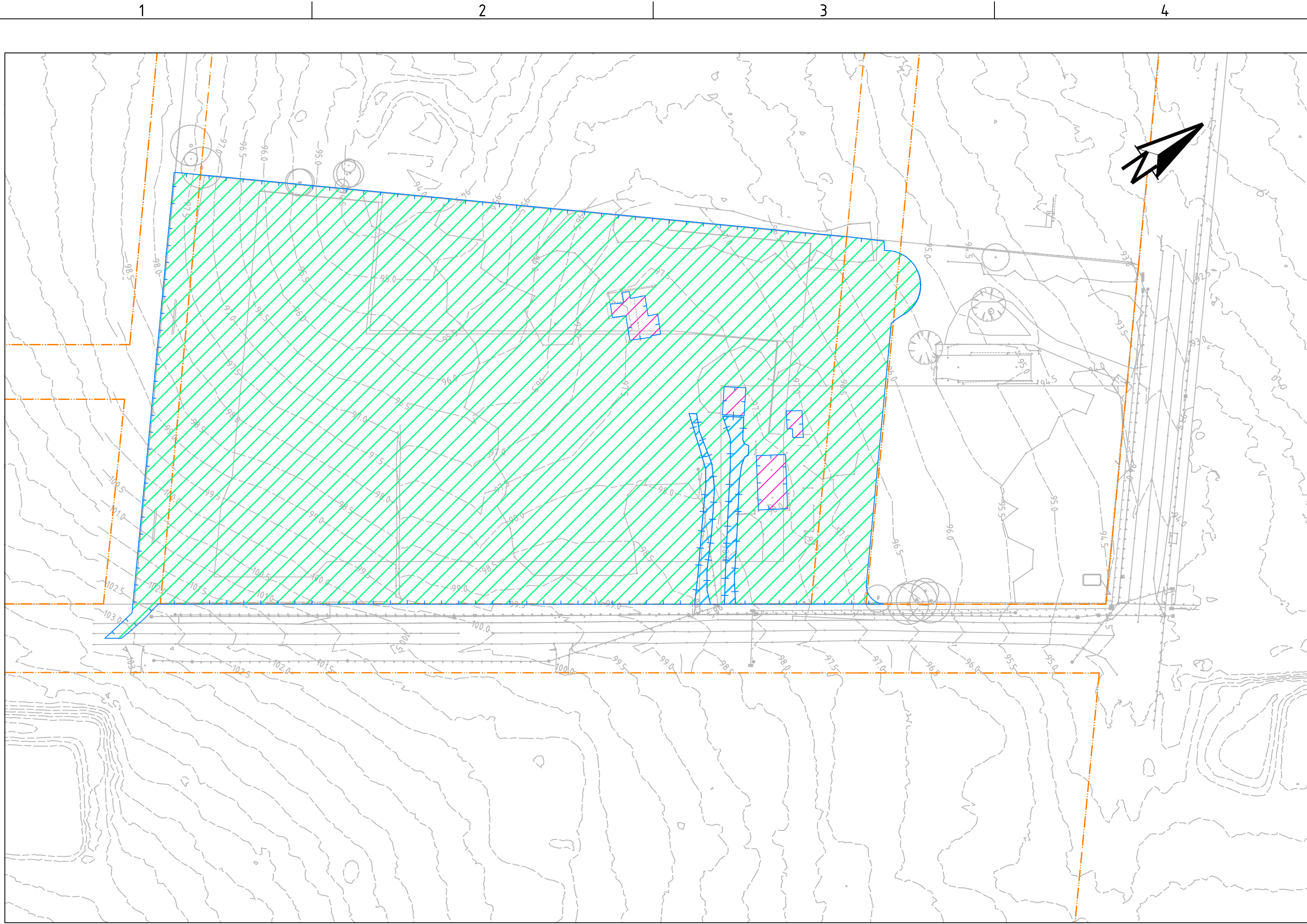


GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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P1806493DRN01V09																								
	2 YR ARI				5 YR ARI				10 YR ARI				20 YR ARI				50 YR ARI				100 YR ARI			
	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference	Pre Peak	Post Peak	Difference			
Storm	Flow (cum/s)	Flow (cum/s)	(cum/s)	Flow (cum/s)	Flow (cum/s)	(cum/s)	Flow (cum/s)	Flow (cum/s)	(cum/s)	Flow (cum/s)	Flow (cum/s)	(cum/s)	Flow (cum/s)	Flow (cum/s)	(cum/s)	Flow (cum/s)	Flow (cum/s)	(cum/s)	Flow (cum/s)	Flow (cum/s)	(cum/s)			
Peak	0.197	0.165	-0.032	0.346	0.240	-0.106	0.421	0.276	-0.145	0.532	0.324	-0.208	0.610	0.356	-0.254	0.710	0.400	-0.310						

STATE SIGNIFICANT DEVELOPMENT APPLICATION

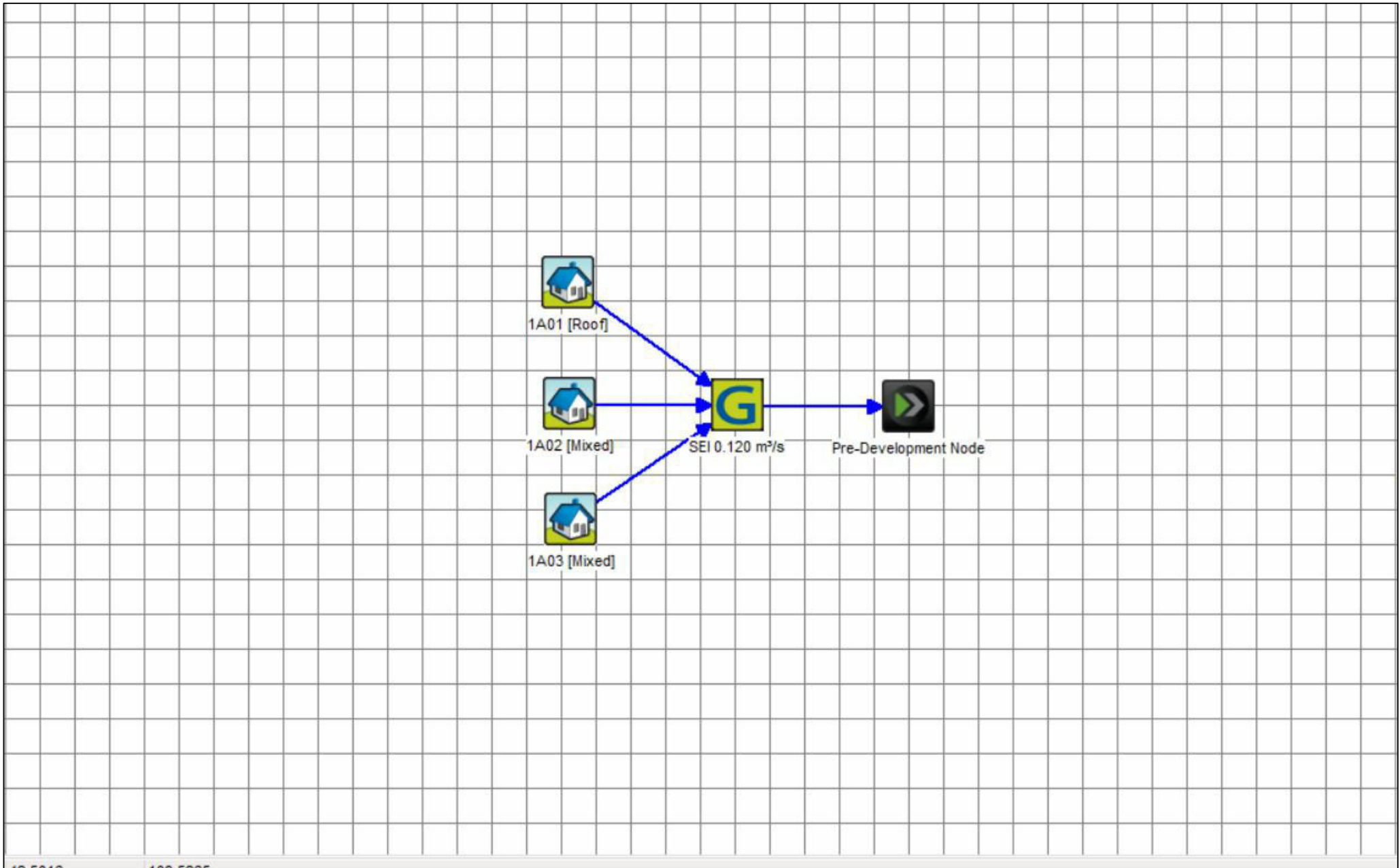
PROJECT INFORMATION							DRAWING INFORMATION						
REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	DRAWING TITLE	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION	
F	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH	POST-DEVELOPMENT OSD CATCHMENT PLAN, MODEL LAYOUT AND RESULT (STAGE 1)	P1806493	PS01	R11	PS01-E611	F	
E	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH							
D	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH							
C	AMENDED FORM CLIENT COMMENTS		GM	CG/PD	TH	TH							
B	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	TH	TH							
A	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH							



PRE-DEVELOPMENT MUSIC CATCHMENT PLAN

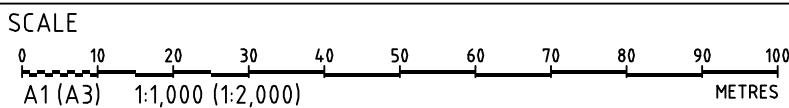
SCALE 1: 1000

PRE DEVELOPMENT MUSIC CATCHMENTS (P1806493MUS01V04)					
KEY	DESCRIPTION	MUSIC NODE ID	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	ROOF	1A01	0.034	100	CAMDEN CITY COUNCIL MUSIC-LINK
	DRIVEWAY	1A02	0.033	100	CAMDEN CITY COUNCIL MUSIC-LINK
	LANDSCAPE	1A03	2.446	0	CAMDEN CITY COUNCIL MUSIC-LINK
TOTAL SITE					
			TOTAL - OVERALL	2.512	= 100 % OF OVERALL AREA
			TOTAL - IMPERVIOUS	0.066	= 3 % OF OVERALL AREA
			TOTAL - PERVIOUS	2.446	= 97 % OF OVERALL AREA



PRE-DEVELOPMENT MUSIC MODEL LAYOUT

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
G	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
F	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
E	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
D	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	EZ	CG/PD	TH
C	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH
B	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG	
A	MINOR AMENDMENT	16/04/2019	GM	EZ		



GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996



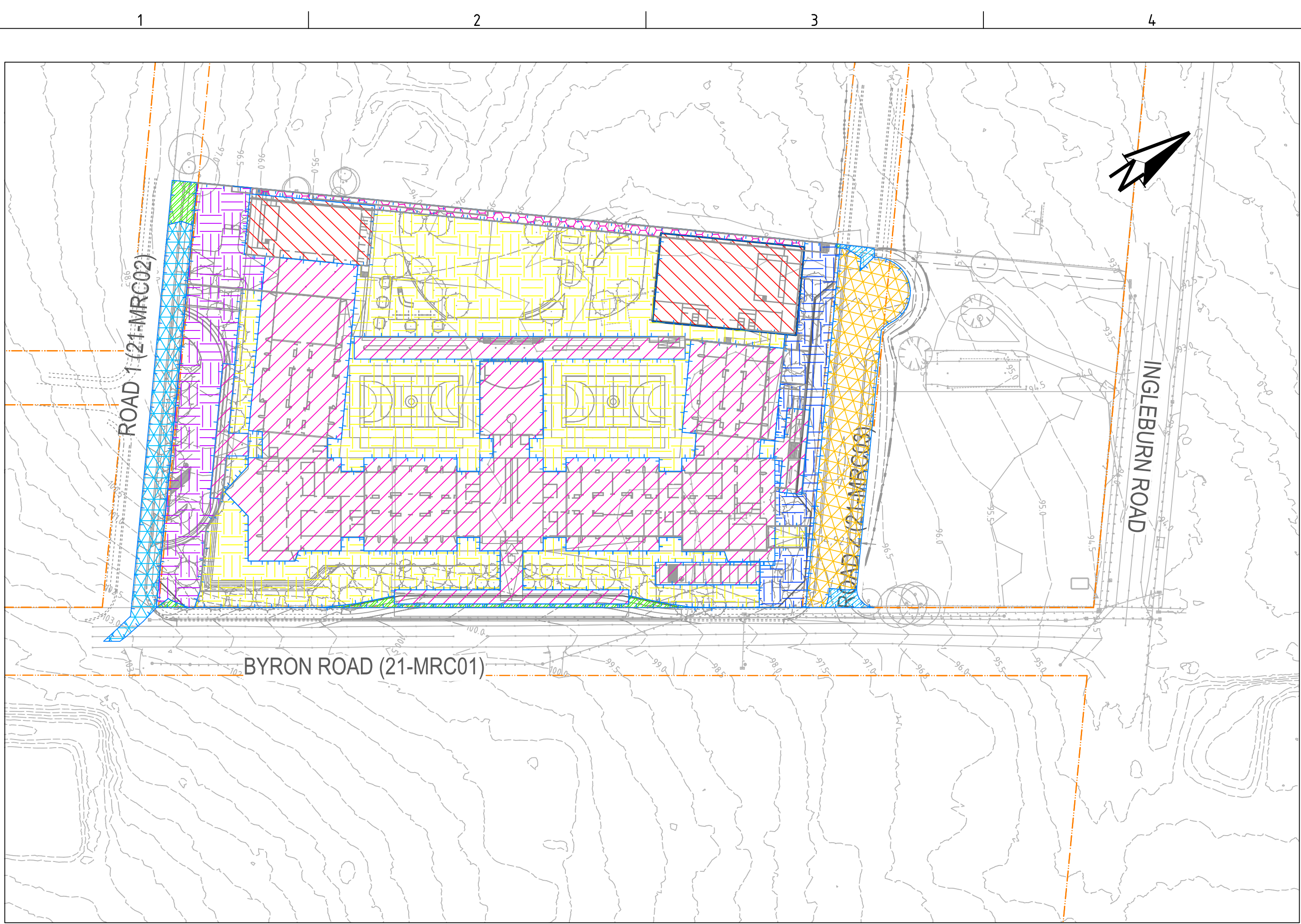
Consulting Engineers

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				
PRE-DEVELOPMENT MUSIC CATCHMENT PLAN, MODEL LAYOUT AND RESULT				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1806493	PS01	R11	PS01-E700	G

STATE SIGNIFICANT DEVELOPMENT APPLICATION



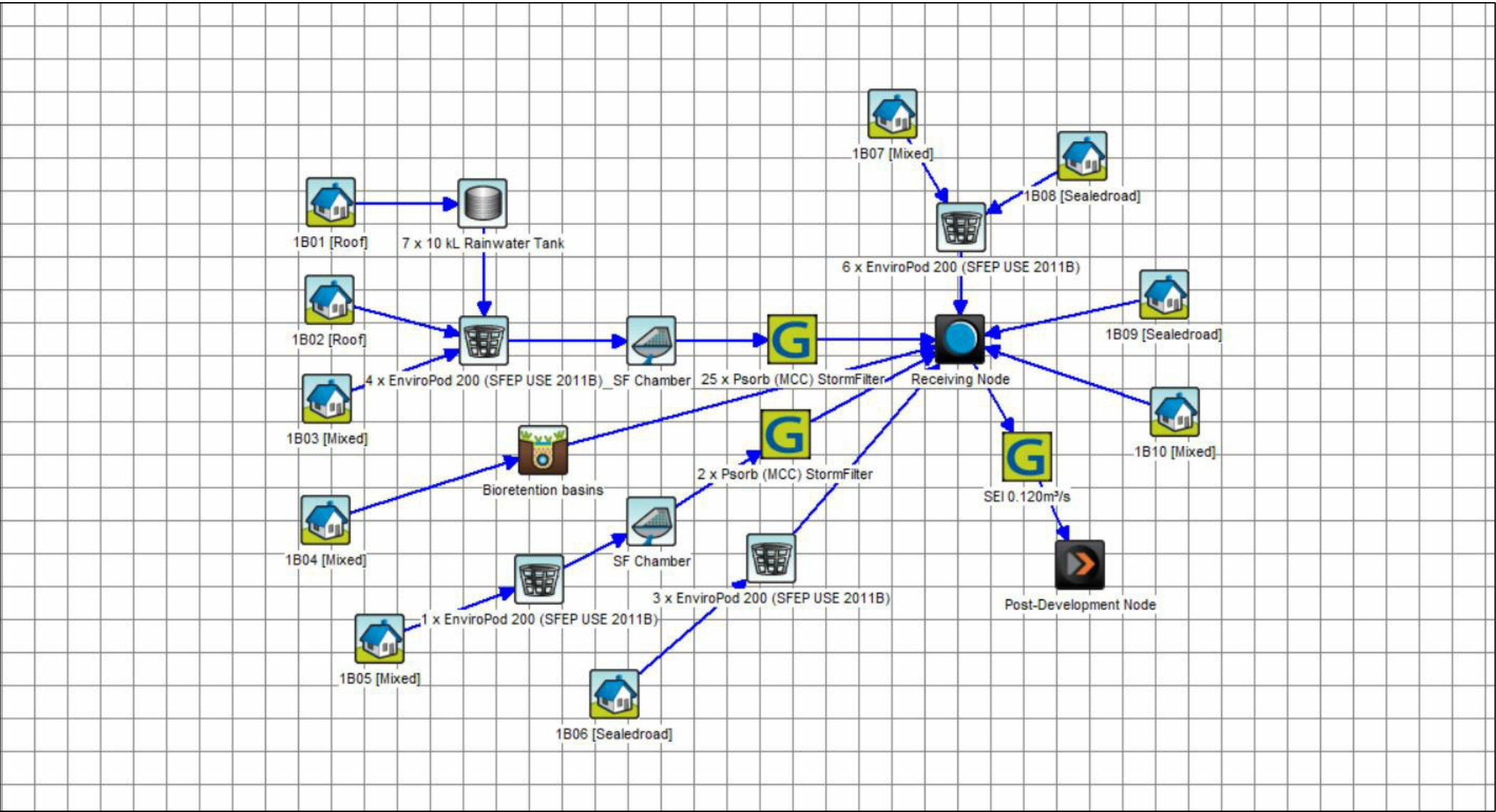
POST-DEVELOPMENT MUSIC CATCHMENT PLAN

SCALE 1: 1000

POST DEVELOPMENT MUSIC CATCHMENTS (P1806493MUS01V04)					
KEY	DESCRIPTION	MUSIC NODE ID	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	ROOF TO RWTS	1B01	0.179	100	CAMDEN CITY COUNCIL MUSIC-LINK
	ROOF BYPASS RWTS	1B02	0.878	100	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND TO 4 x ENNVIROPODS	1B03	0.840	65	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND TO BIO	1B04	0.040	100	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND TO SF	1B05	0.183	65	CAMDEN CITY COUNCIL MUSIC-LINK
	SEALED ROAD TO 3 x ENNVIROPODS	1B06	0.090	50	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND TO 6 x ENNVIROPODS	1B07	0.110	40	CAMDEN CITY COUNCIL MUSIC-LINK
	SEALED ROAD TO 6 x ENNVIROPODS	1B08	0.158	50	CAMDEN CITY COUNCIL MUSIC-LINK
	SEALED ROAD BYPASS 6 x ENNVIROPODS	1B09	0.008	50	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND BYPASS SF	1B10	0.024	0	CAMDEN CITY COUNCIL MUSIC-LINK
	TOTAL SITE				
		TOTAL - OVERALL		2.512	= 100 % OF OVERALL AREA
		TOTAL - IMPERVIOUS		1.816	= 72 % OF OVERALL AREA
		TOTAL - PERVIOUS		0.696	= 28 % OF OVERALL AREA

Notes:

1. Rainwater from 1790 m2 of the roof area will be directed to 7 x 10 kL rainwater tank for reuse.



POST-DEVELOPMENT MUSIC MODEL LAYOUT

Treatment Train Effectiveness - Receiving Node			
	Sources	Residual Load	% Reduction
Flow (ML/yr)	14.5	13.9	4.2
Total Suspended Solids (kg/yr)	1740	255	85.3
Total Phosphorus (kg/yr)	4.17	1.46	65
Total Nitrogen (kg/yr)	36.2	17.8	50.7
Gross Pollutants (kg/yr)	411	1.04	99.7

MUSIC MODELLING RESULTS

Mean Annual Loads - Pre-Development Node		
	Inflow	
	Pre	Post
Flow (ML/yr)	39.6	115
Total Suspended Solids (kg/yr)	8.03E3	6.26E3
Total Phosphorus (kg/yr)	16.3	26.3
Total Nitrogen (kg/yr)	108	242
Gross Pollutants (kg/yr)	8.97	5.89

☒ Include Post-Development

MUSIC MODELLING SEI RESULTS

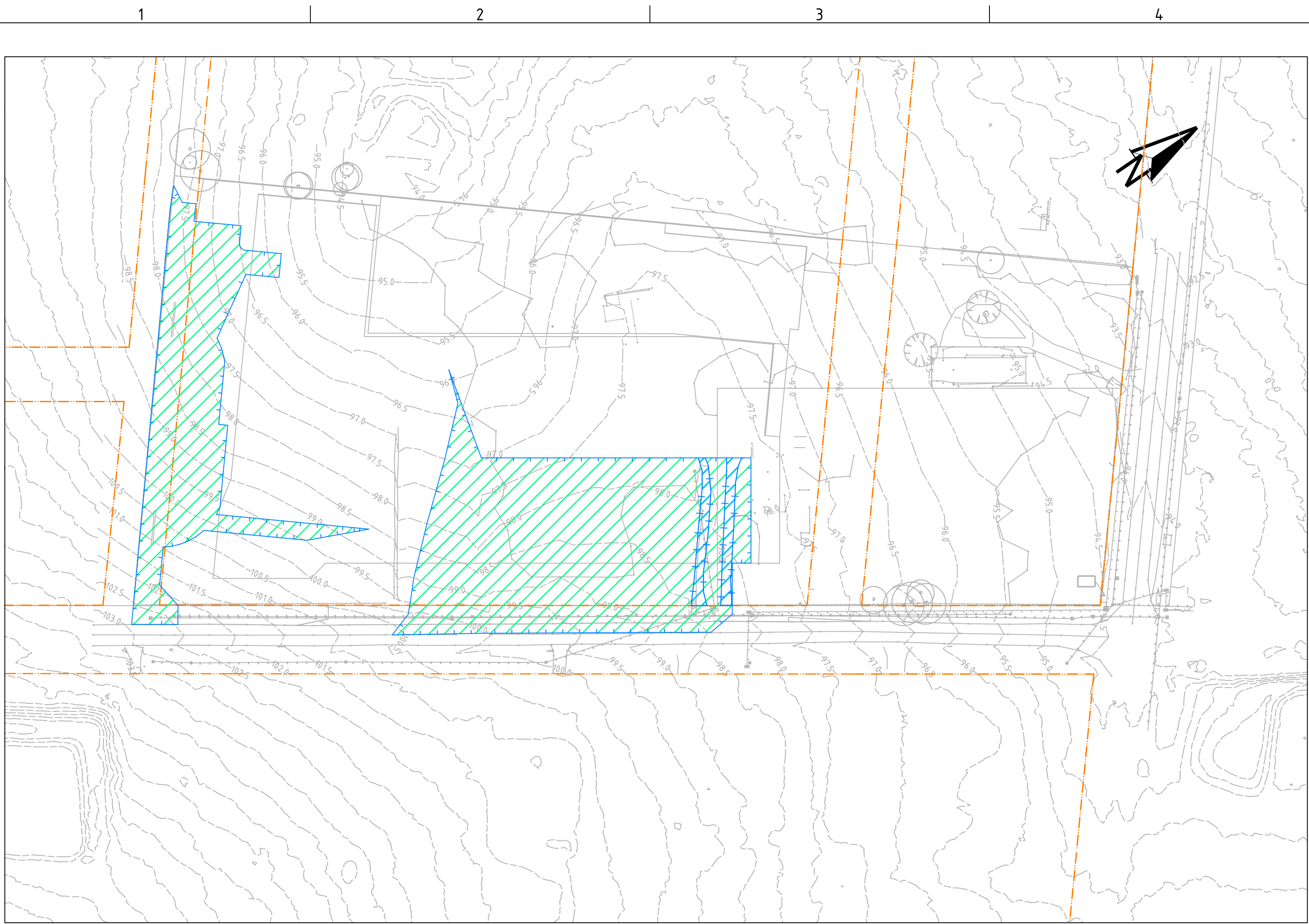
NOTE

1. WATER QUALITY TREATMENT TRAIN TO ACHIEVE TARGET REDUCTION LEVELS OF 85% TSS, 65% TP, 45% TN & 90% GP (CAMDEN COUNCIL, 2015).

2. PRE-DEVELOPMENT VS POST DEVELOPMENT SEI INDEX =115/39.6=2.9= 3.5.

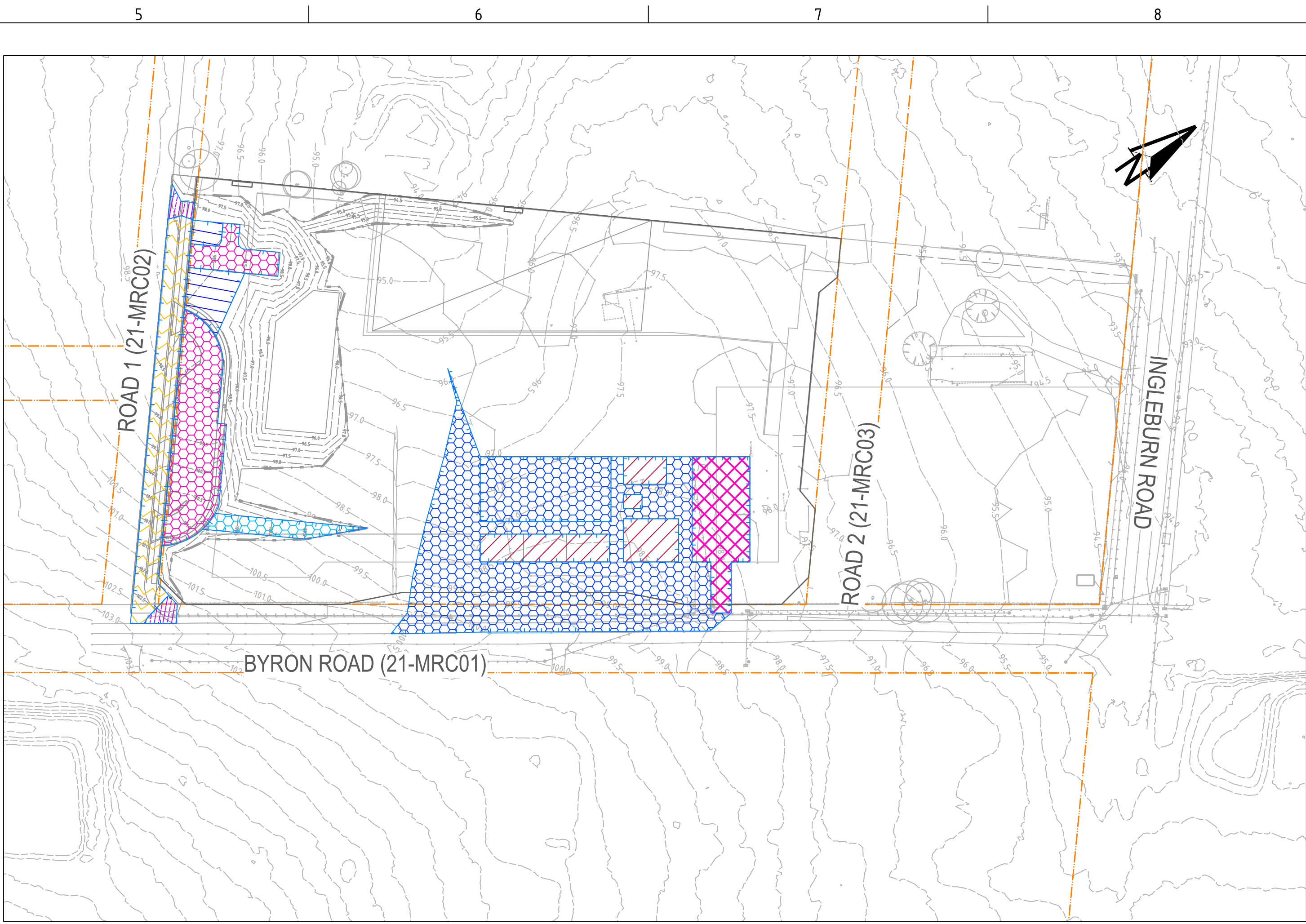
STATE SIGNIFICANT DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE											
H	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH		MGA	mAHD	TH	AMITY COLLEGE	 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	POST-DEVELOPMENT MUSIC CATCHMENT PLAN, MODEL LAYOUT AND RESULT (ULTIMATE STAGE)										
G	ADD FUTURE ROAD 2 (21-MRC03A)	20/11/2019	JS	PB	TH	TH		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 AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN										
F	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH		63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996					PROJECT NO. P1806493	PLANSET NO. PS01	RELEASE NO. R11	DRAWING NO. PS01-E710	REVISION H						
E	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH																	
D	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	EZ	CG/PD	TH																	
C	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH																	
B	MINOR AMENDMENT	08/05/2019	GM	CG/DG	CG/DG																		
A	MINOR AMENDMENT	16/04/2019	GM	EZ																			
A1 / A3 LANDSCAPE (A1&C_v02.0.01)							DRAWING ID: P1806493-PS01-R11-E710																



STAGE 1 PRE-DEVELOPMENT MUSIC CATCHMENT PLAN

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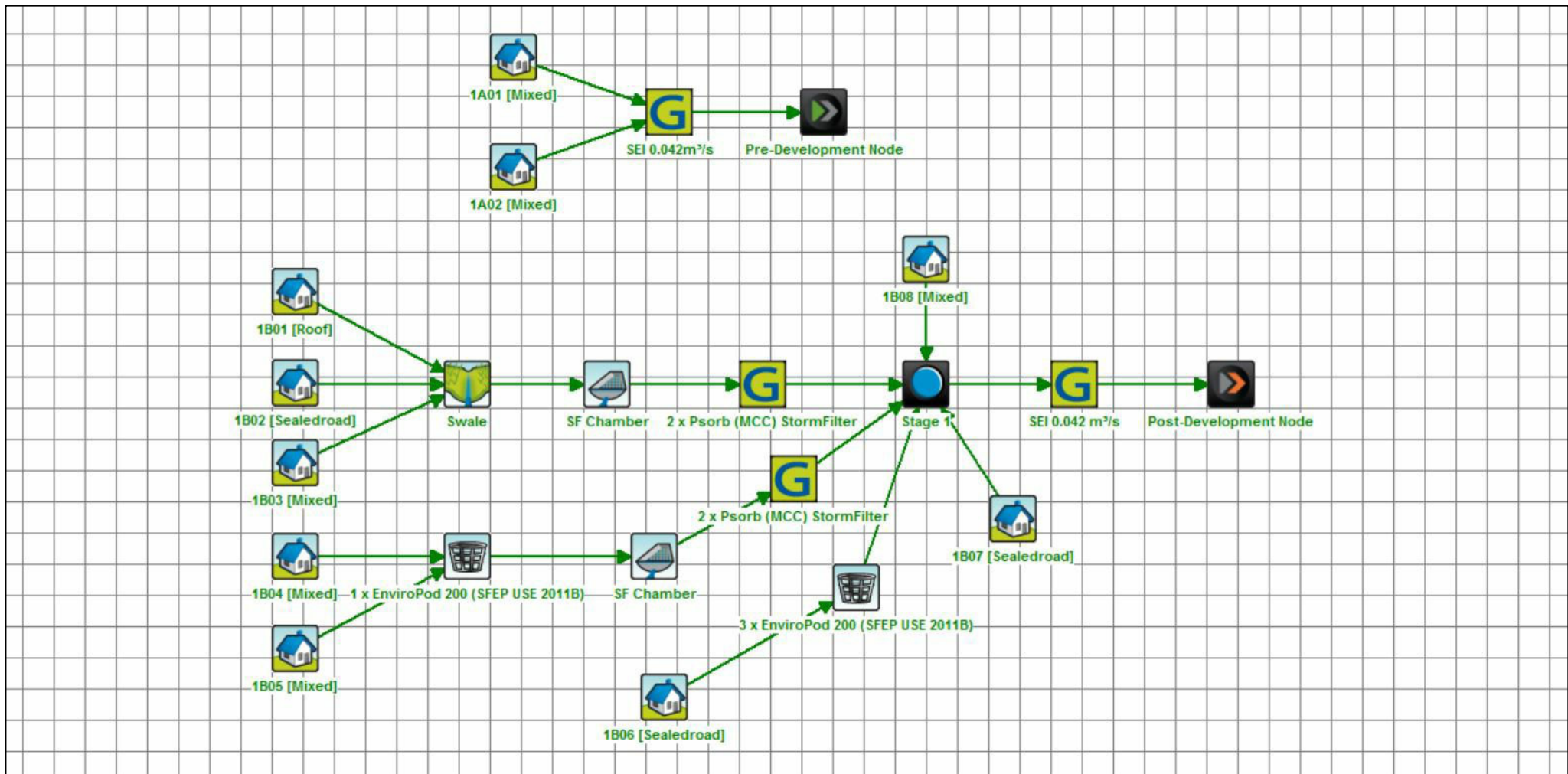


STAGE 1 POST-DEVELOPMENT MUSIC CATCHMENT PLAN

SCALE 1: 1000

PRE DEVELOPMENT MUSIC CATCHMENTS (P1806493MUS02V03)					
KEY	DESCRIPTION	MUSIC NODE ID	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	DRIVEWAY	1A01	0.025	100	CAMDEN CITY COUNCIL MUSIC-LINK
	LANDSCAPE	1A02	0.725	0	CAMDEN CITY COUNCIL MUSIC-LINK
	TOTAL SITE				
		TOTAL - OVERALL		0.750	= 100 % OF OVERALL AREA
		TOTAL - IMPERVIOUS		0.025	= 3 % OF OVERALL AREA
		TOTAL - PERVIOUS		0.725	= 97 % OF OVERALL AREA

POST DEVELOPMENT MUSIC CATCHMENTS (P1806493MUS02V03)					
KEY	DESCRIPTION	MUSIC NODE ID	AREA (ha)	IMPERVIOUS %	MUSIC NODE REFERENCE
	ROOF TO SWALE	1B01	0.065	100	CAMDEN CITY COUNCIL MUSIC-LINK
	CARPARK TO SWALE	1B02	0.062	100	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND TO SWALE	1B03	0.370	0	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND TO SF	1B04	0.111	90	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND TO SF	1B05	0.028	100	CAMDEN CITY COUNCIL MUSIC-LINK
	SEALED ROAD TO 3 x Enviropods	1B06	0.087	50	CAMDEN CITY COUNCIL MUSIC-LINK
	SEALED ROAD BYPASS 3 x Enviropods	1B07	0.009	50	CAMDEN CITY COUNCIL MUSIC-LINK
	GROUND BYPASSING	1B08	0.019	100	CAMDEN CITY COUNCIL MUSIC-LINK
	TOTAL SITE				
		TOTAL - OVERALL		0.750	= 100 % OF OVERALL AREA
		TOTAL - IMPERVIOUS		0.321	= 43 % OF OVERALL AREA
		TOTAL - PERVIOUS		0.429	= 57 % OF OVERALL AREA



STAGE 1 MUSIC MODEL LAYOUT

Mean Annual Loads - Post-Development Node		
	Inflow	
	Pre	Post
Flow (ML/yr)	3.25	2.83
Total Suspended Solids (kg/yr)	572	202
Total Phosphorus (kg/yr)	1.52	0.739
Total Nitrogen (kg/yr)	10.3	6.56
Gross Pollutants (kg/yr)	0.947	0.332

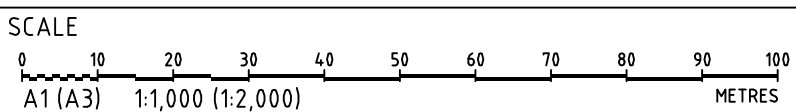
STAGE 1 MUSIC MODELLING SEI RESULTS

Treatment Train Effectiveness - Stage 1			
	Sources	Residual Load	% Reduction
Flow (ML/yr)	2.82	2.82	0
Total Suspended Solids (kg/yr)	532	70.8	86.7
Total Phosphorus (kg/yr)	1.09	0.362	66.9
Total Nitrogen (kg/yr)	7.08	3.9	45
Gross Pollutants (kg/yr)	56.7	1.17	97.9

STAGE 1 MUSIC MODELLING RESULTS

NOTE
1. WATER QUALITY TREATMENT TRAIN TO ACHIEVE TARGET REDUCTION LEVELS OF 85% TSS, 65% TP, 45% TN & 90% GP (CAMDEN COUNCIL, 2015).
2. PRE-DEVELOPMENT VS POST DEVELOPMENT SEI INDEX =2.83/3.25=0.87+ 3.5.

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPROV
E	DESIGN UPDATE	24/04/2020	LL	AVG/EZ	TH	TH
D	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
C	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
B	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	EZ	CG/PD	TH
A	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH



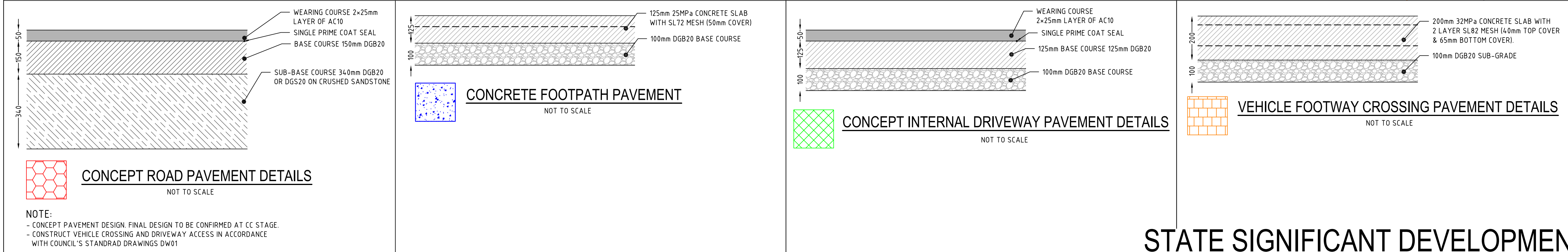
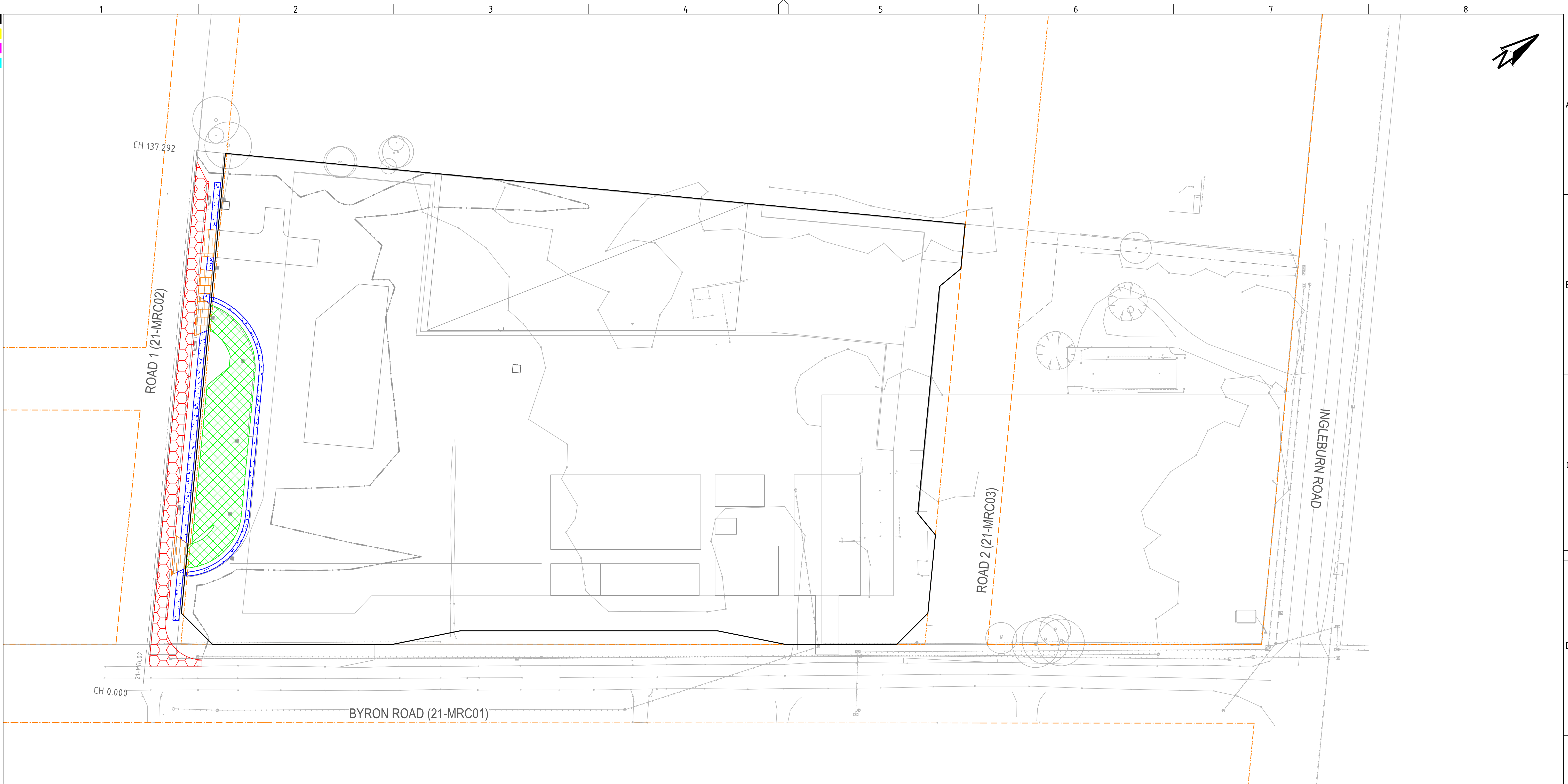
GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	AMITY COLLEGE
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PROJECT NAME/PLANSET TITLE AMITY COLLEGE LEPPINGTON CAMPUS CIVIL WORKS PLAN 63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171 LOT 1 & 2 DP 525996			

STATE SIGNIFICANT DEVELOPMENT APPLICATION

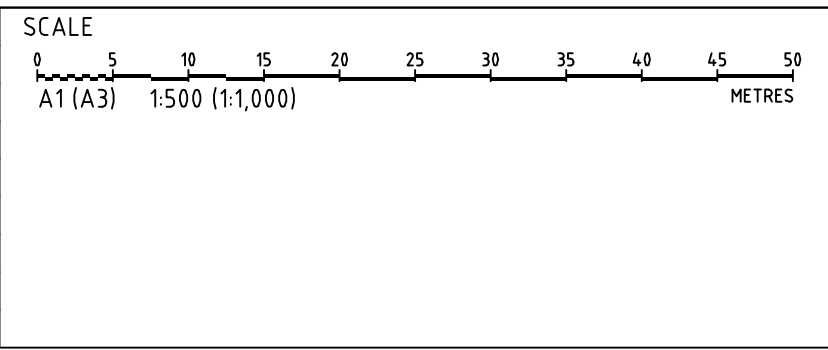
Consulting Engineers
Environment
Water
Geotechnical
Civil

DRAWING TITLE
MUSIC CATCHMENT
PLAN, MODEL LAYOUT AND RESULT
(STAGE 1)

PROJECT NO. P1806493	PLANSET NO. PS01	RELEASE NO. R11	DRAWING NO. PS01-E711	REVISION E
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REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
D	MINOR AMENDMENT	24/07/2019	GM	CG/PD	TH	TH
C	AMENDED FORM CLIENT COMMENTS	23/07/2019	CG/PD	CG/PD	TH	TH
B	AMENDED FORM CLIENT COMMENTS	11/07/2019	GM	CG/PD	CG/PD	TH
A	AMENDED FORM REVISED ARCHITECTURAL PLANS	28/06/2019	GM	CG/EZ	TH	TH



GRID MGA DATUM mAHD PROJECT MANAGER TH CLIENT AMITY COLLEGE

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PROJECT NAME/PLANSET TITLE
AMITY COLLEGE LEPPINGTON CAMPUS
CIVIL WORKS PLAN
63 INGLEBURN RD & 85 BYRON RD, LEPPINGTON, NSW 2171
LOT 1 & 2 DP 525996

Consulting Engineers
Environment
Water
Geotechnical
Civil

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DRAWING TITLE				
PAVEMENT PLAN AND DETAILS (STAGE 1)				
PROJECT NO. P1806493	PLANSET NO. PS01	RELEASE NO. R11	DRAWING NO. PS01-G401	REVISION D

STATE SIGNIFICANT DEVELOPMENT APPLICATION