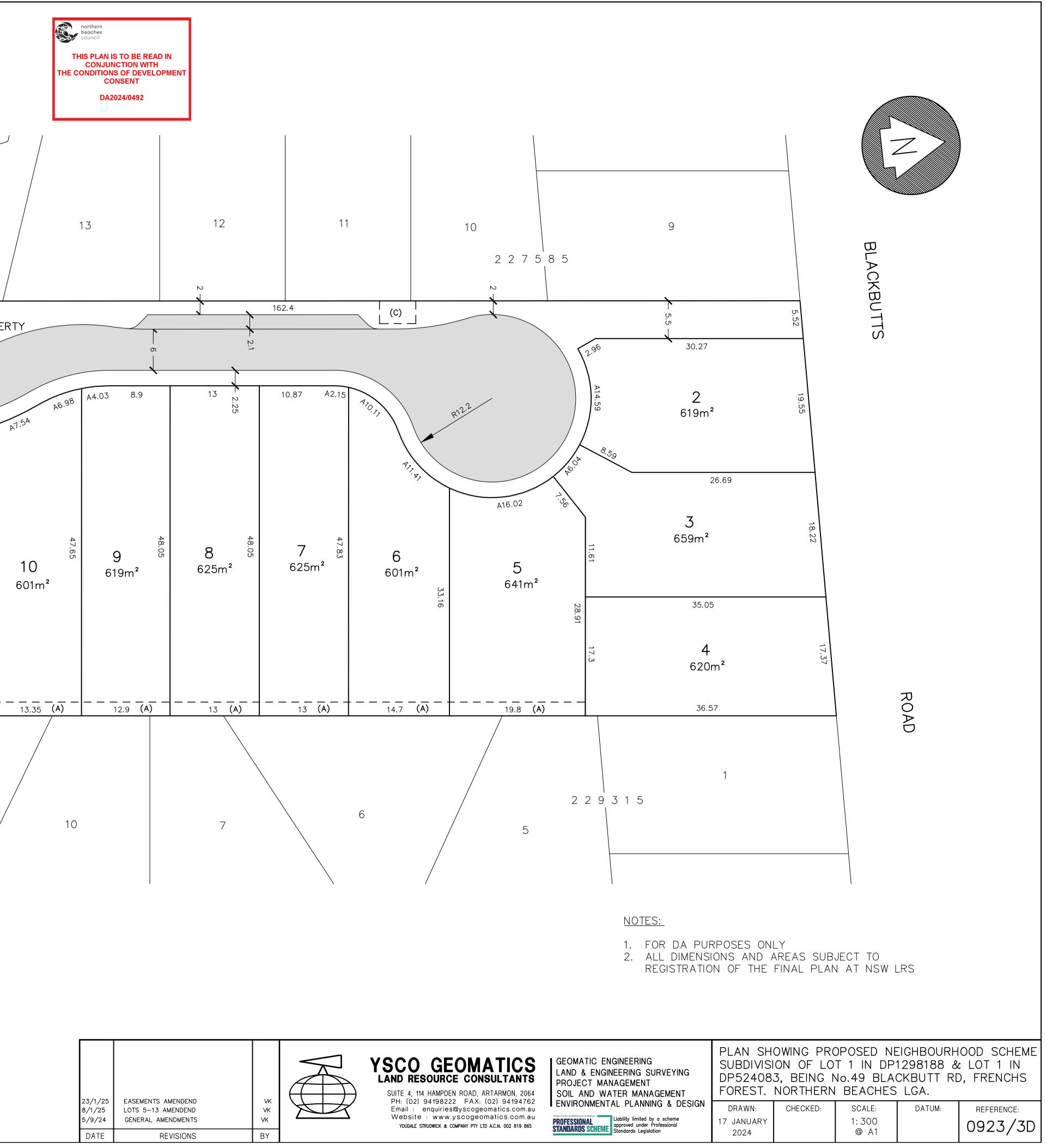
ROAD 25 26 DΡ 25.4 NEIGHBOURHOOD PROPERTY 2599m² 25.4 (B) A12.21 (B) - A,4 A15.09 `(B) A14.99 WARILI 1 (Å) | D P 13 766m² 12 11 601m² 604m² 14.8 **(A)** 14.2 15.4 Ν \sim \neg 4 3 4 9 DΡ 11 12

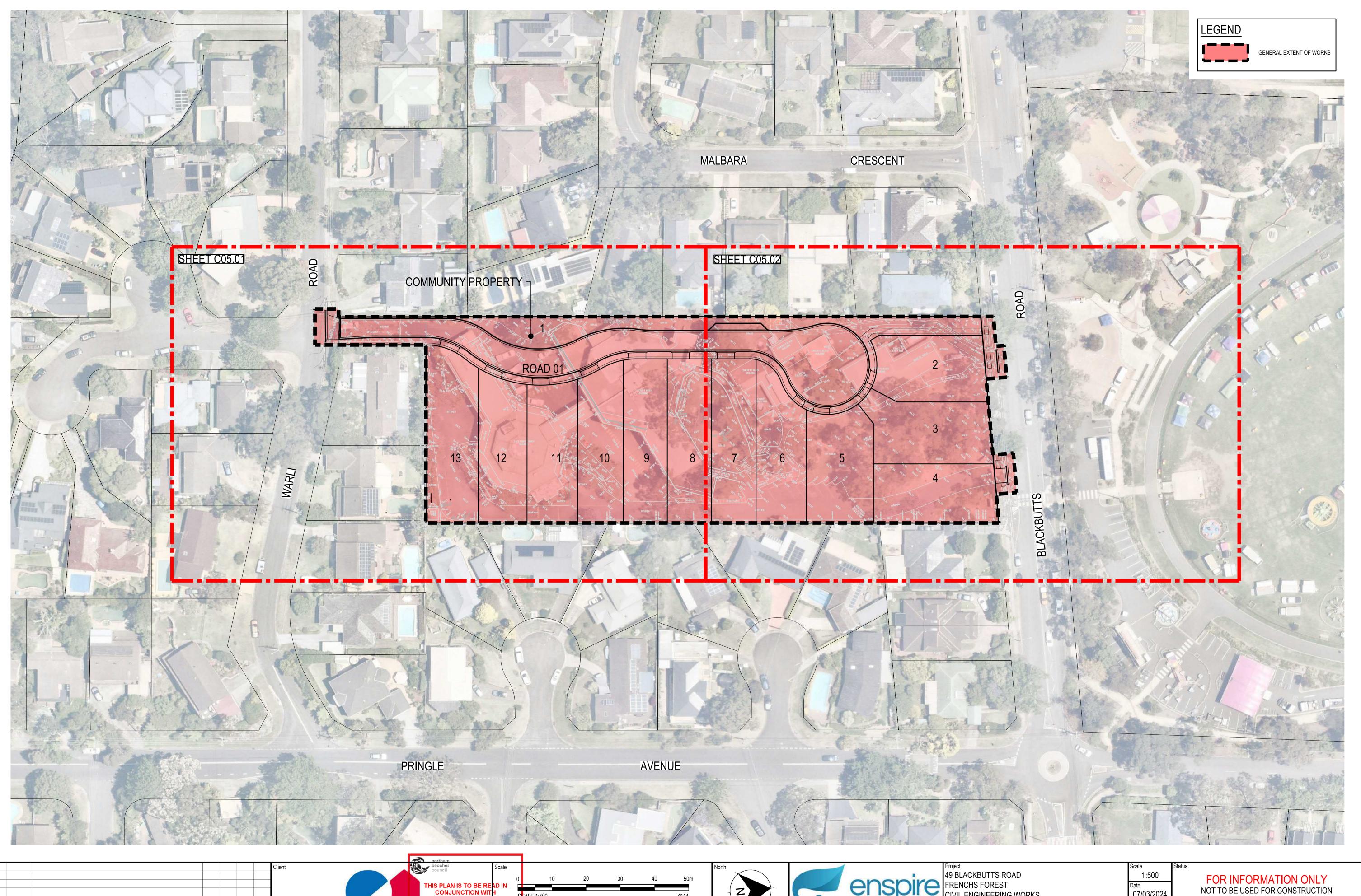
- (A) EASEMENT TO DRAIN WATER 2 WIDE
- (B) POSITIVE COVENANT (OSD)
- (B) RESTRICTION ON THE USE OF LAND (OSD)
- (C) EASEMENT FOR PADMOUNT SUBSTATION 3.3 WIDE







			YSCO GEOMATICS LAND RESOURCE CONSULTANTS	GE LA PR
23/1/25 8/1/25 5/9/24	EASEMENTS AMENDEND LOTS 5–13 AMENDEND GENERAL AMENDMENTS	VK VK VK	SUITE 4, 114 HAMPDEN ROAD, ARTARMON, 2064 PH: (02) 94198222 FAX: (02) 94194762 Email : enquiries@yscogeomatics.com.au Website : www.yscogeomatics.com.au youdale strudwick & company PTY Ltd A.c.N. 002 819 865	SC EN PROF
DATE	REVISIONS	BY		SIAN



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3	31/03/2025	UPDATES ADDRESSING COUNCIL COMMENTS DA ISSUE	DK	AL		MKH
2	15/01/2025	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH
1	7/03/2024	ISSUED FOR DEVELOPMENT APPLICATION	ZW	LD		MKH
RFV	DATE	DESCRIPTION	DRN	DES	VERIE	APPD



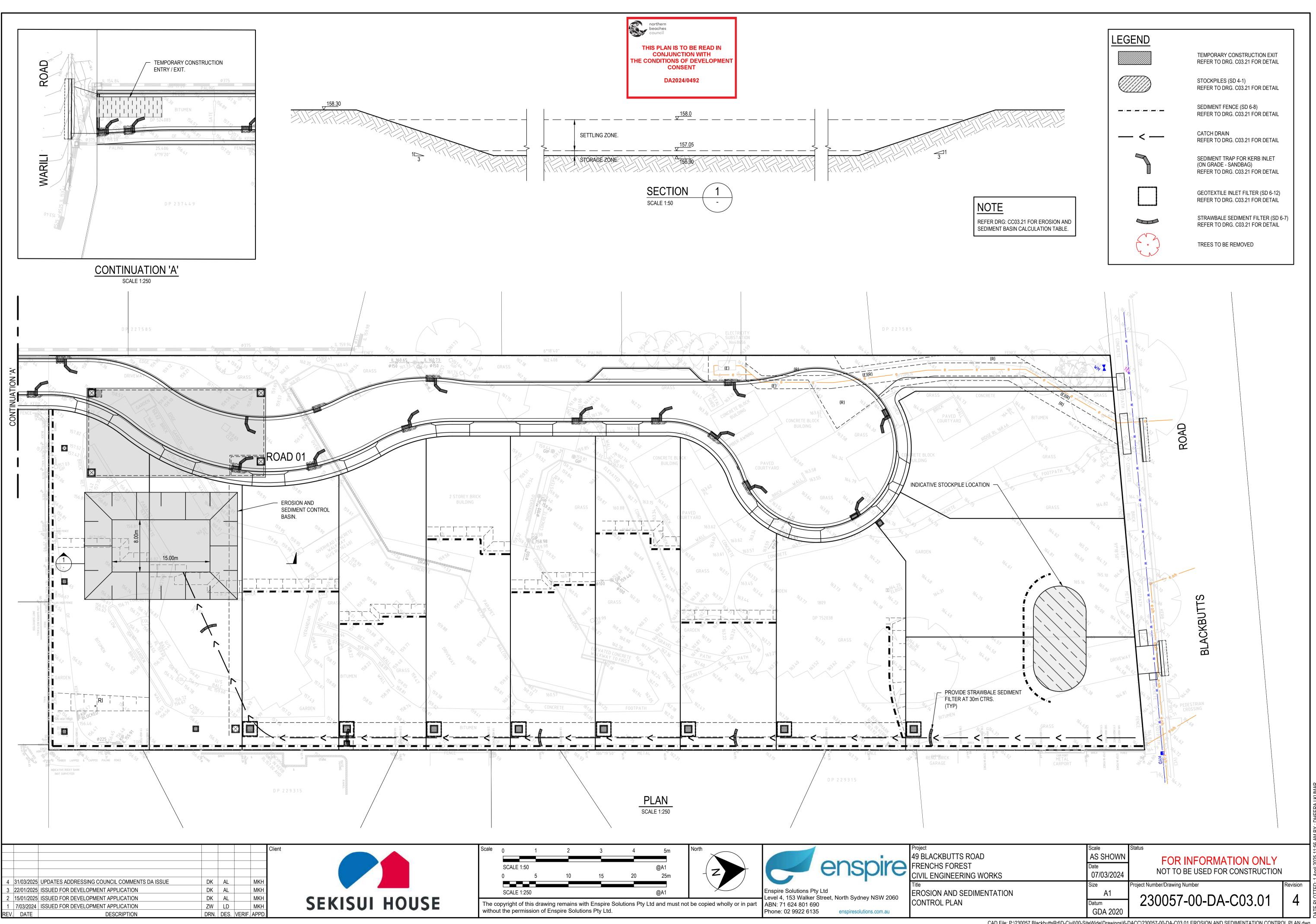
		Level 4.
The copy	ight of this drawing remains with Enspire Solutions Pty Ltd and must not	,
without th	e permission of Enspire Solutions Pty Ltd.	 Phone: (

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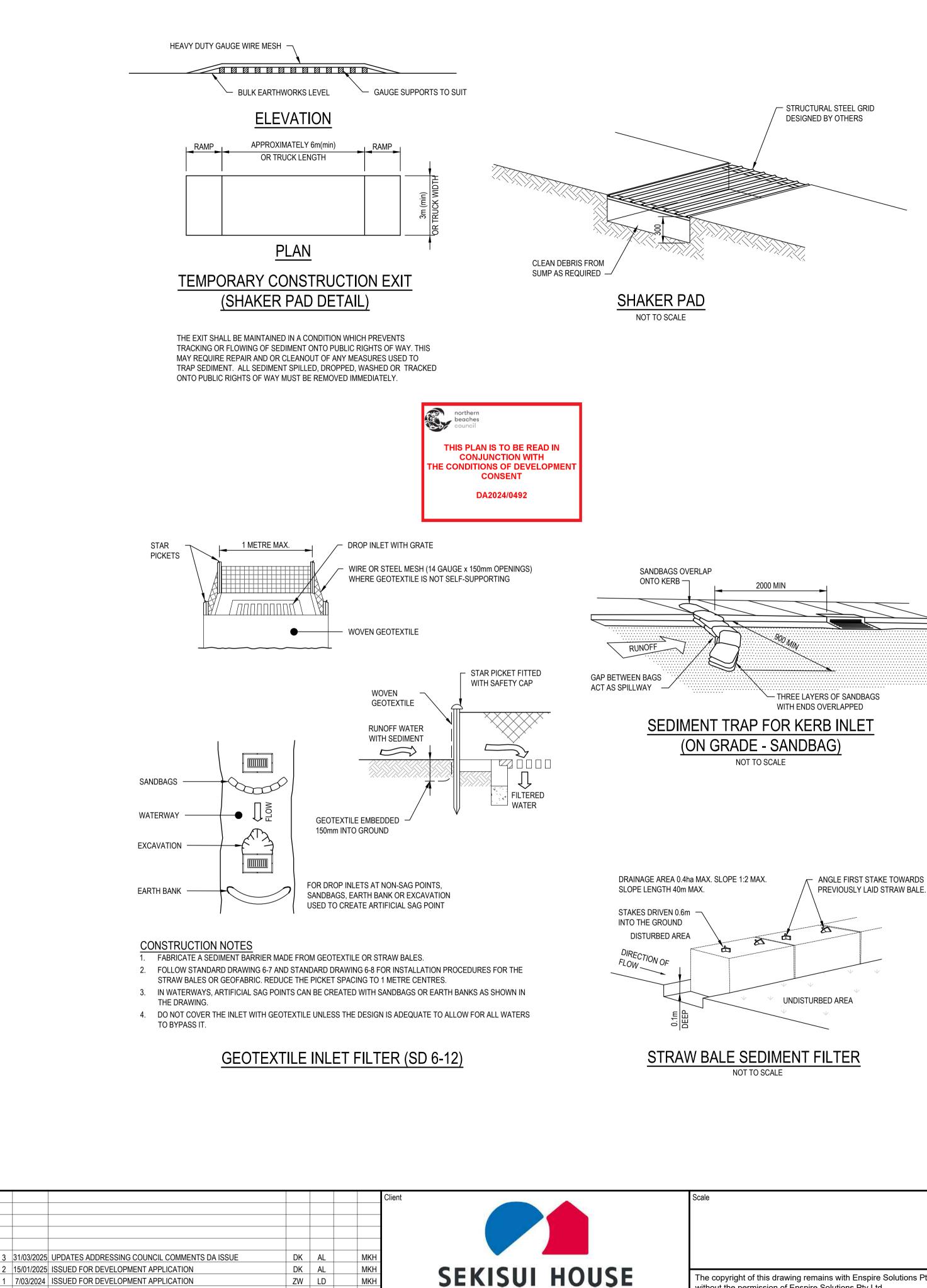
Enspire Solutions Pty Ltd Level 4, 153 Walker Street, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135 enspiresolutions.com.au

Project 49 BLACKBUTTS ROAD FRENCHS FOREST CIVIL ENGINEERING WORKS GENERAL ARRANGEMENT PLA

		Scale 1:500 Date 07/03/2024	Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION		1 Anril 2025 11-5
		Size	Project Number/Drawing Number	Revision	ЦЕ Ц
AN		A1		2	
		Datum	230057-00-DA-C01.41	3	ā
		GDA 2020			DATE
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CAD File: P:\230057 BlackbuttsRd\D-Civil\00-SiteWide\Drawings\6-DACC\230057-00-DA-C03.01 EROSION AND SEDIMENTATION CONTROL PLAN.dwg



7/03/2024 ISSUED FOR DEVELOPMENT APPLICATION

EV. DATE

DESCRIPTION

ZW LD

DRN. DES. VERIF. APPD

		Enspire Solutions Pty I	_td reet, North Sydney NSW 2060	Title EROSION AND SEDIMEN
he copyright of this drawing remains with Enspire Solutions Pty Ltd and must no vithout the permission of Enspire Solutions Pty Ltd.	be copied wholly or in part		enspiresolutions.com.au	CONTROL DETAILS

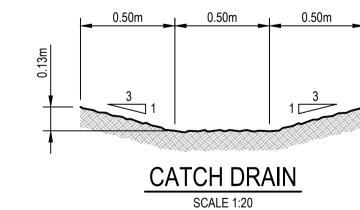
CONSTRUCTION NOTES

FLOW, ROADS AND HAZARD AREAS.

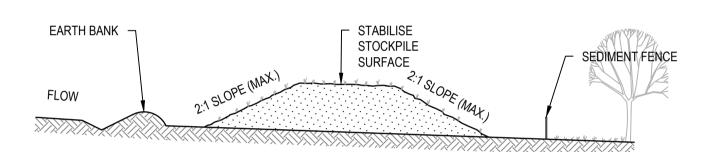
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.

SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.

		Total basin volume (m ³)	224.7 Not Type C Not Type C	Not Type C Not Type C Not Type C Auto-calculated	
					S AM B
North	enspire	Project 49 BLACKBUTTS ROAD FRENCHS FOREST CIVIL ENGINEERING WORKS	Scale N.T.S Date 07/03/2024	Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION	
right of this drawing remains with Enspire Solutions Pty Ltd and must not be copied wholly or in the permission of Enspire Solutions Pty Ltd.	Level 4, 153 Walker Street, North Sydney NSW 2060	Title EROSION AND SEDIMENTATION CONTROL DETAILS	Size A1 Datum GDA 2020	Project Number/Drawing Number 230057-00-DA-C03.21	Revision 3



4. Volur



1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER

4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR

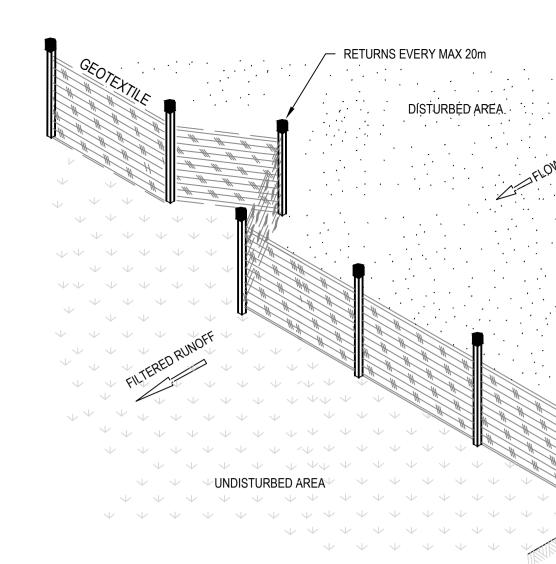
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND

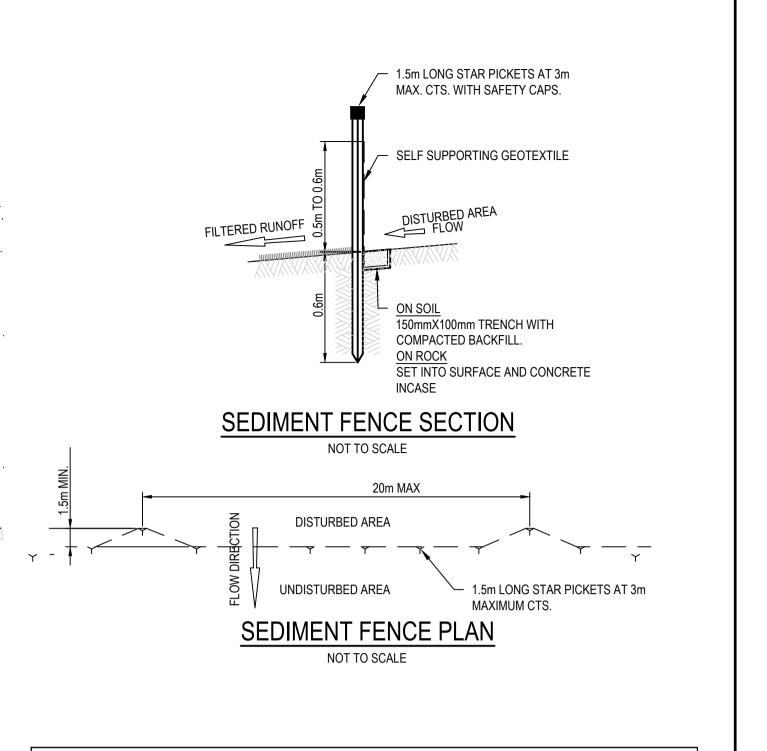
STOCKPILES (SD 4-1)

3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.

STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

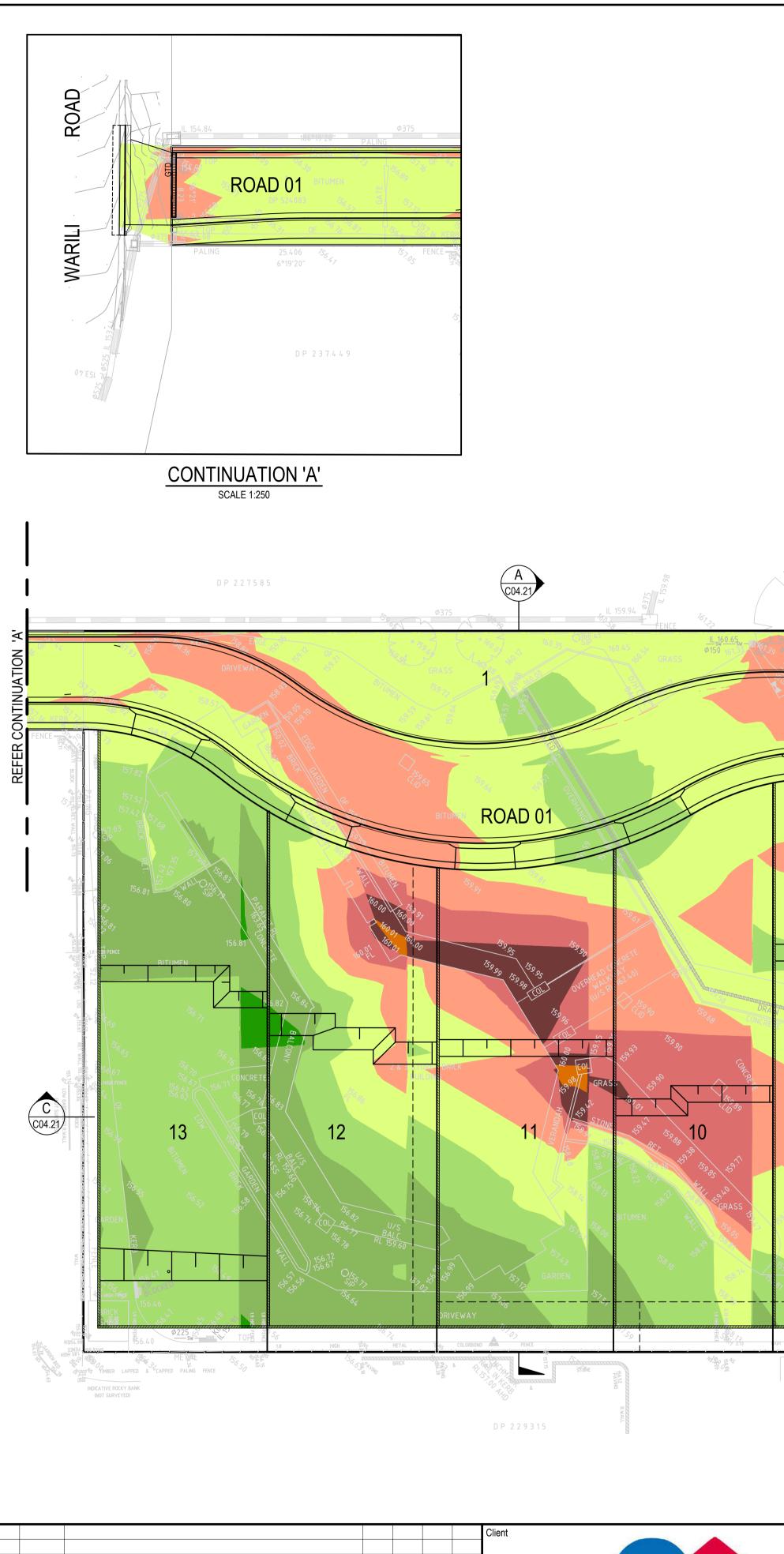
SEDIMENT FENCE ISOMETRIC NOT TO SCALE





1. Erosion Hazard an	d Se	dime	ent B	asin	S		
Site Name:	49 Bla	ckbutts	Road				
Site Location:	Frenc	hs Fore	st				
Precinct/Stage:							
Other Details:							
Site area	Sub-c	atchm	ent or	Name	of Stru	ucture	Notes
Site alea			1 1				Notes
Total catchment area (ha)	1.017						
Disturbed catchment area (ha)	1.017						
Soil analysis (enter sediment t	ype if l	known,	or lab	orato	ry parti	cle siz	e data)
Sediment Type (C, F or D) if known:	С		1				From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)							Enter the percentage of each soil
% silt (fraction 0.002 to 0.02 mm)							fraction. E.g. enter 10 for 10%
% clay (fraction finer than 0.002 mm)							Tablon, E.g. chus to lor to to
Dispersion percentage							E.g. enter 10 for dispersion of 10%
% of whole soil dispersible							See Section 6.3.3(e). Auto-calculated
Soil Texture Group	С						Automatic calculation from above
Rainfall data							
Design rainfall depth (no of days)	5						
Design rainfall depth (percentile)	85						See Section 6.3.4 and, particularly,
x-day, y-percentile rainfall event (mm)	44						Table 6.3 on pages 6-24 and 6-25.
Rainfall R-factor (if known)							Only models and the set of the set
IFD: 2-year, 6-hour storm (if known)	14						Only need to enter one or the other here
RUSLE Factors							
Rainfall erosivity (R -factor)	4280						Auto-filled from above
Soil erodibility (K -factor)	0.007						
Slope length (m)	170						
Slope gradient (%)	5.5						RUSLE LS factor calculated for a high
Length/gradient (LS -factor)	2.07						rill/interrill ratio.
Erosion control practice (P -factor)	1.3	1.3	1.3	1.3	1.3	1.3	
Ground cov er (C -factor)	1	1	1	1	1	1	4

A Volume of Typ		'oarco)	Sodim	ont Ba	eine				
4. Volume of Typ		Juaisej	Seum	ient Da	131113				
Type C Basin Design Crite	ria								
Structure Name				-			Auto-filled from Worksheet 1		
Catchment Area (ha)	1.017						Auto-filled from Worksheet 1		
Sediment type (C, F or D)	С						Auto-filled from Worksheet 1		
Design rainfall event	0.5		0			(Choose design event from dropdown		
Flow volume (m ³ /s)	0.087						Calculated from IFD values above		
Area Factor	4100	4100	4100	4100	4100	4100	Default is 4,100. See pg 6-12		
Depth of settling (water zone) (m)	0.6	0.6	0.6	0.6	0.6	0.6	Minimum is 0.6m (pg 6-12)		
Type C Basin Volume Cal	culation	S							
Basin Surface Area (m ²)	356.7	Not Type C	Auto-calculated						
Settling (water) zone volume (m ³)	214	Not Type C	Auto-calculated						
Storage (soil) zone volume (m ³)	10.7	Not Type C	Auto-calculated						
Total basin volume (m ³)	224.7	Not Type C	Auto-calculated						



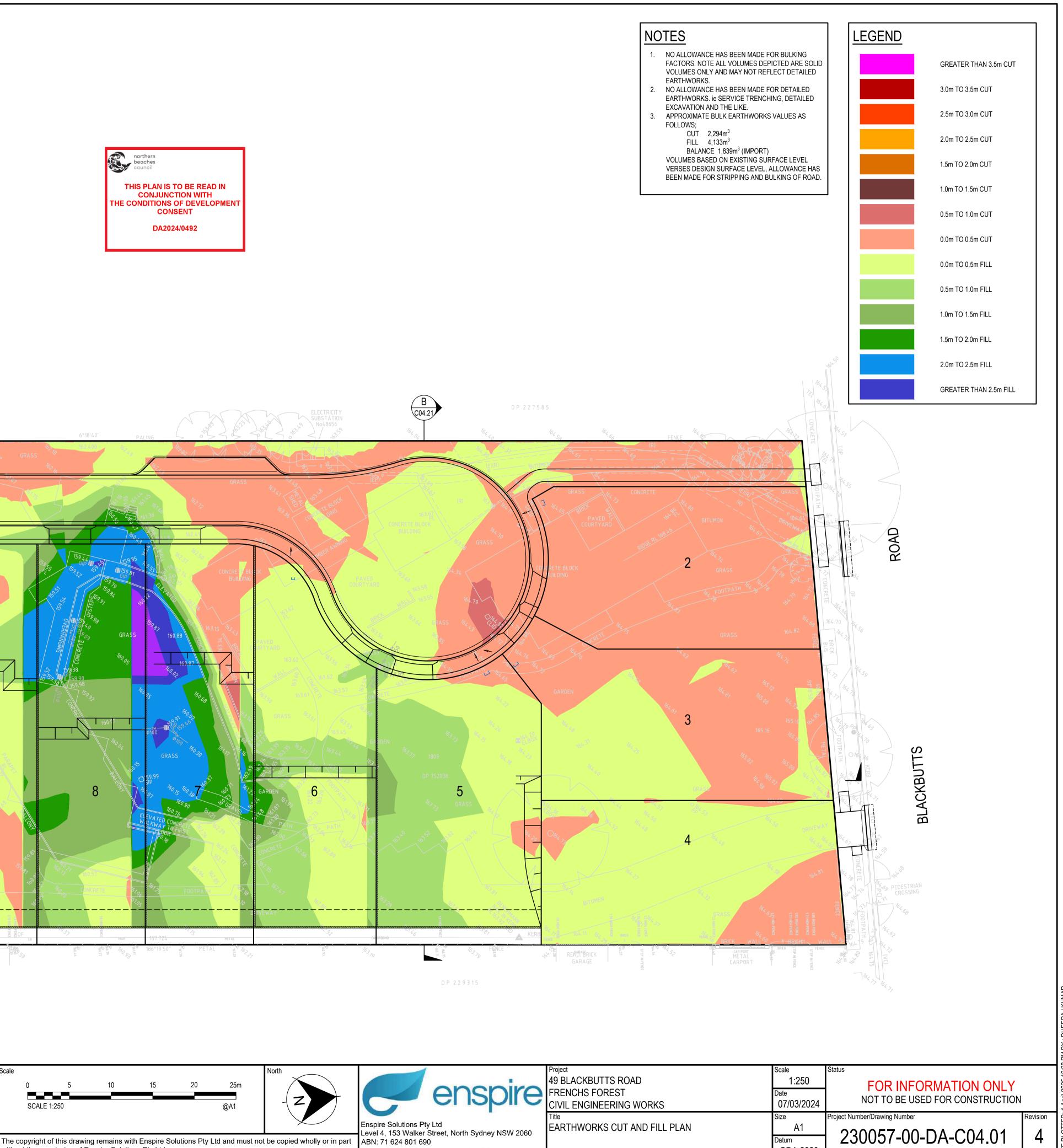
МКН DK AL 4 31/03/2025 UPDATES ADDRESSING COUNCIL COMMENTS DA ISSUE MKH MKH MKH DK AL 3 22/01/2025 ISSUED FOR DEVELOPMENT APPLICATION DK AL 2 15/01/2025 ISSUED FOR DEVELOPMENT APPLICATION ZW LD 7/03/2024 ISSUED FOR DEVELOPMENT APPLICATION DESCRIPTION DRN. DES. VERIF. APPD. EV. DATE

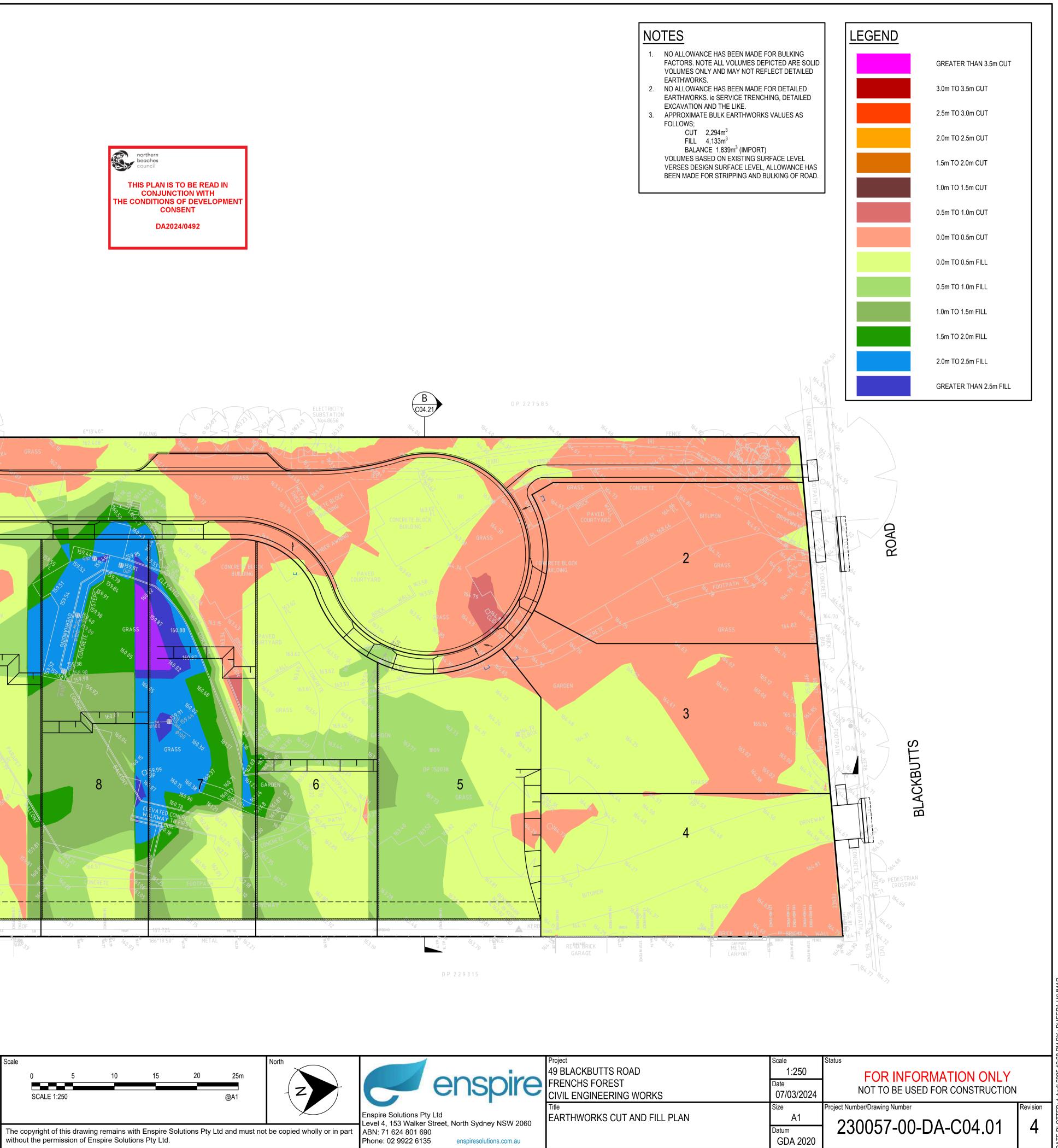


A S METAL COLORBOND

2 3

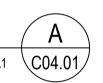
CONJUNCTION WITH CONSENT

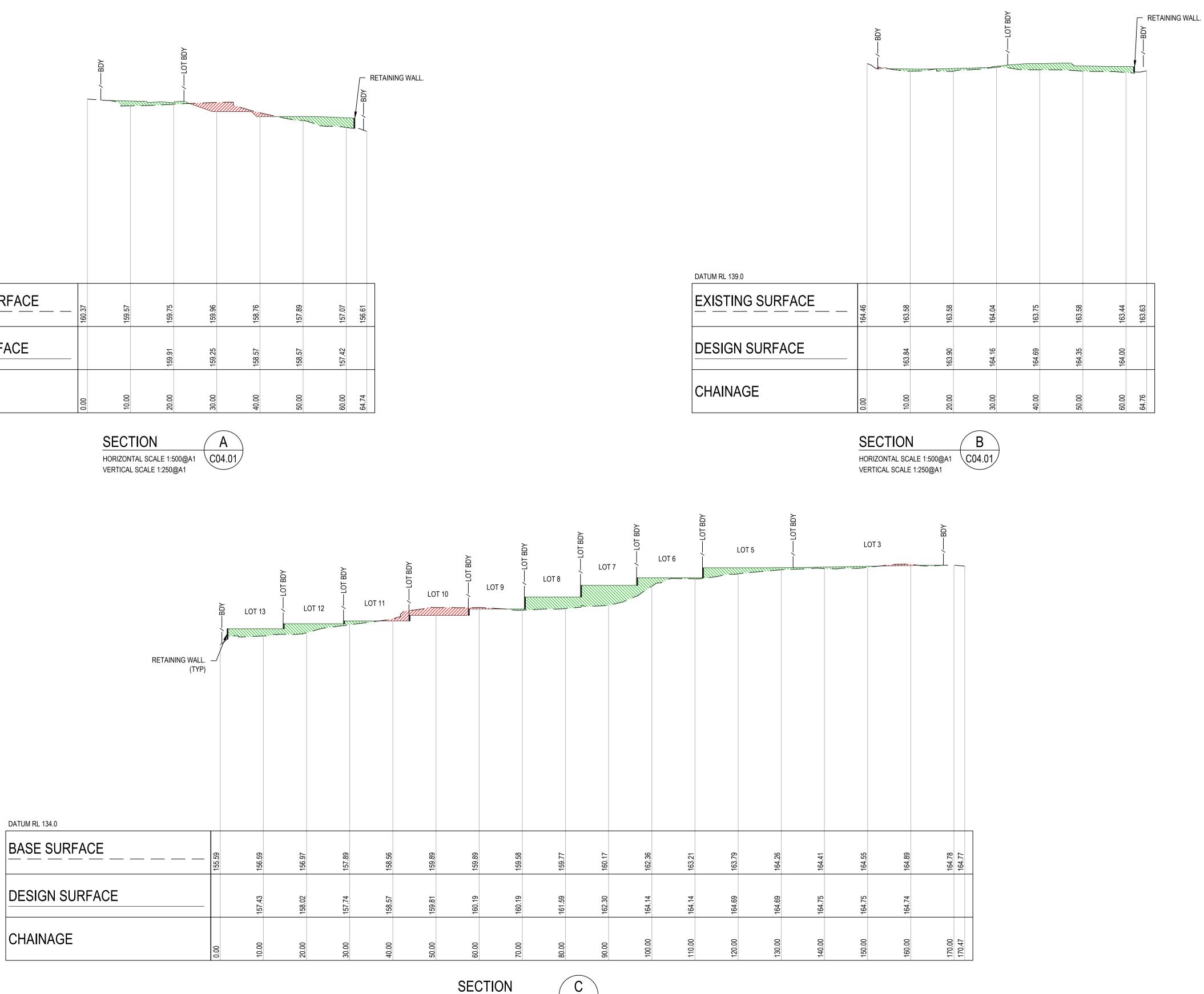




CAD File: P:\230057 BlackbuttsRd\D-Civil\00-SiteWide\Drawings\6-DACC\230057-00-DA-C04.01 EARTHWORKS CUT AND FILL PLAN.dwg

			7//////////	PLOT BDY	Martin Constant of		
DATUM RL 139.0							
EXISTING SURFACE	160.37	159.57	159.75	159.96	158.76	157.89	
DESIGN SURFACE			159.91	159.25	158.57	158.57	
CHAINAGE	0.00	10.00	20.00	30.00	40.00	50.00	





						Clien
31/03/2025	UPDATES ADDRESSING COUNCIL COMMENTS DA ISSUE	DK	AL		MKH	
15/01/2025	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH	
7/03/2024	ISSUED FOR DEVELOPMENT APPLICATION	ZW	LD		MKH	
DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	
ł	15/01/2025 7/03/2024		15/01/2025ISSUED FOR DEVELOPMENT APPLICATIONDK7/03/2024ISSUED FOR DEVELOPMENT APPLICATIONZW	15/01/2025ISSUED FOR DEVELOPMENT APPLICATIONDKAL7/03/2024ISSUED FOR DEVELOPMENT APPLICATIONZWLD	15/01/2025ISSUED FOR DEVELOPMENT APPLICATIONDKAL7/03/2024ISSUED FOR DEVELOPMENT APPLICATIONZWLD	15/01/2025ISSUED FOR DEVELOPMENT APPLICATIONDKALMKH7/03/2024ISSUED FOR DEVELOPMENT APPLICATIONZWLDMKH

northern beaches council

THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT

DA2024/0492



HORIZONTAL SCALE 1:500@A1 VERTICAL SCALE 1:250@A1



Project Vorth 49 BLACKBUTTS ROAD FRENCHS FOREST CIVIL ENGINEERING WORKS enspire SCALE: H:1:500 V:1:100

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 Enspire Solutions Pty Ltd

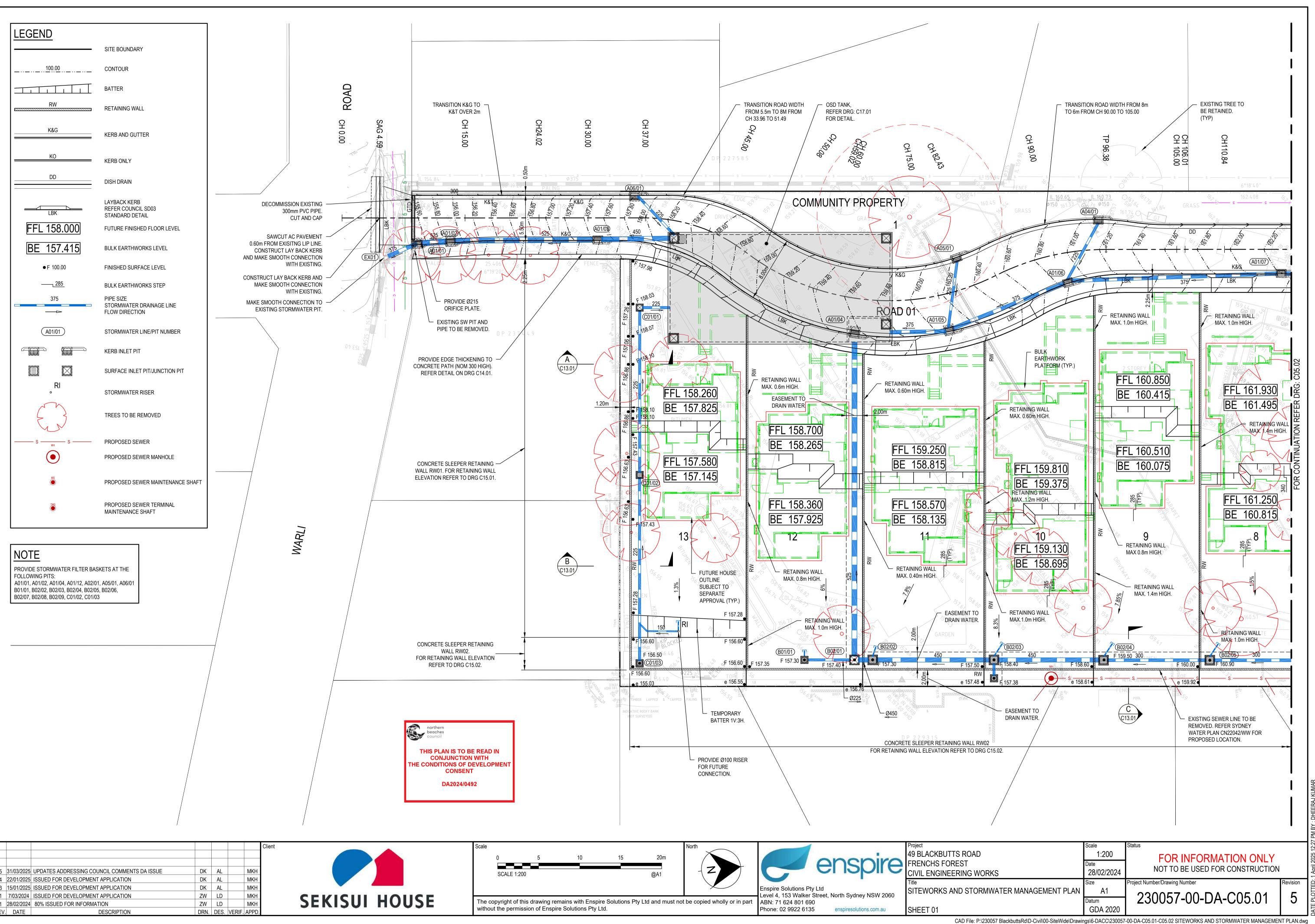
 Level 4, 153 Walker Street, North Sydney NSW 2060
 ABN: 71 624 801 690

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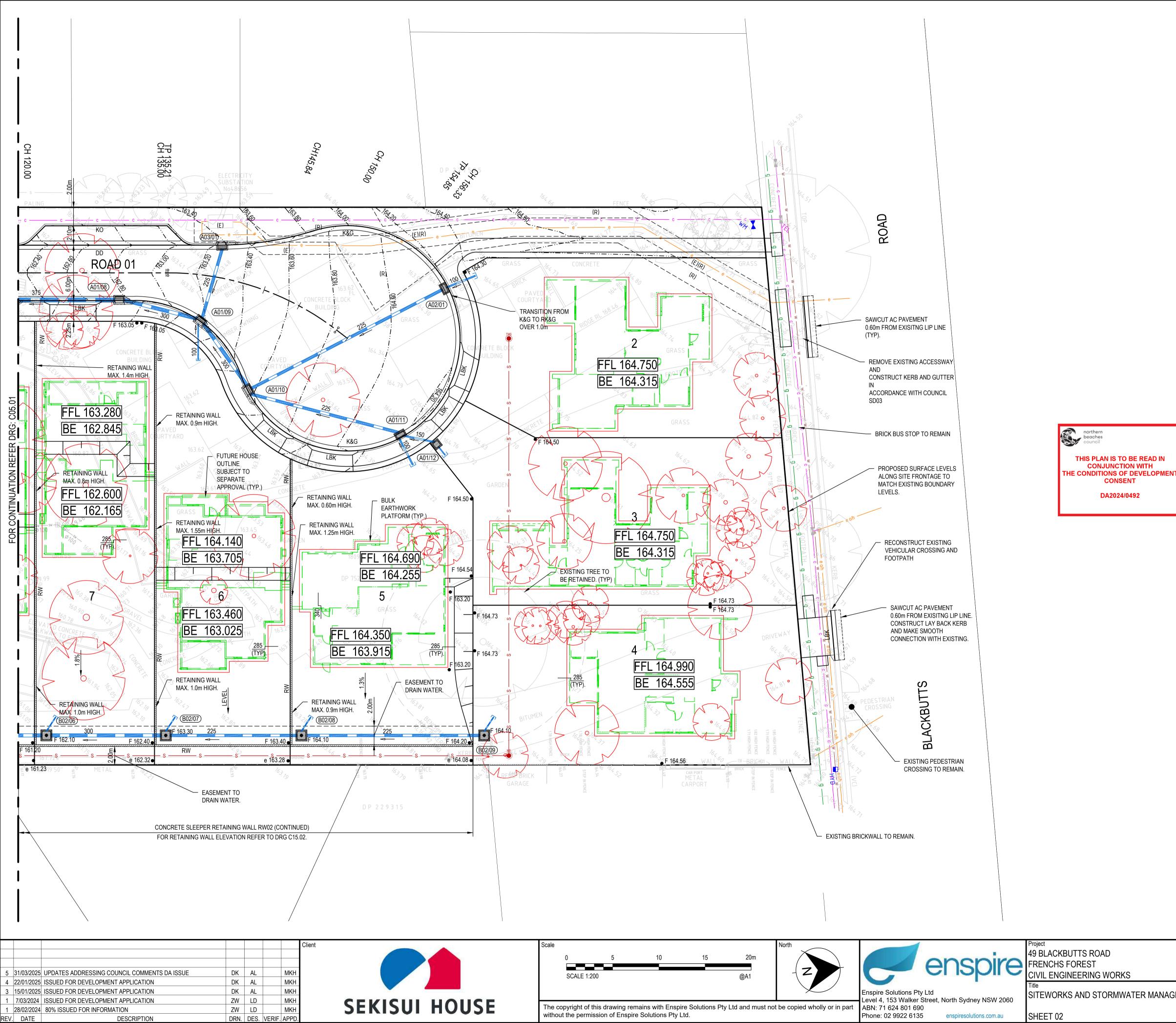
EARTHWORKS CUT AND FILL

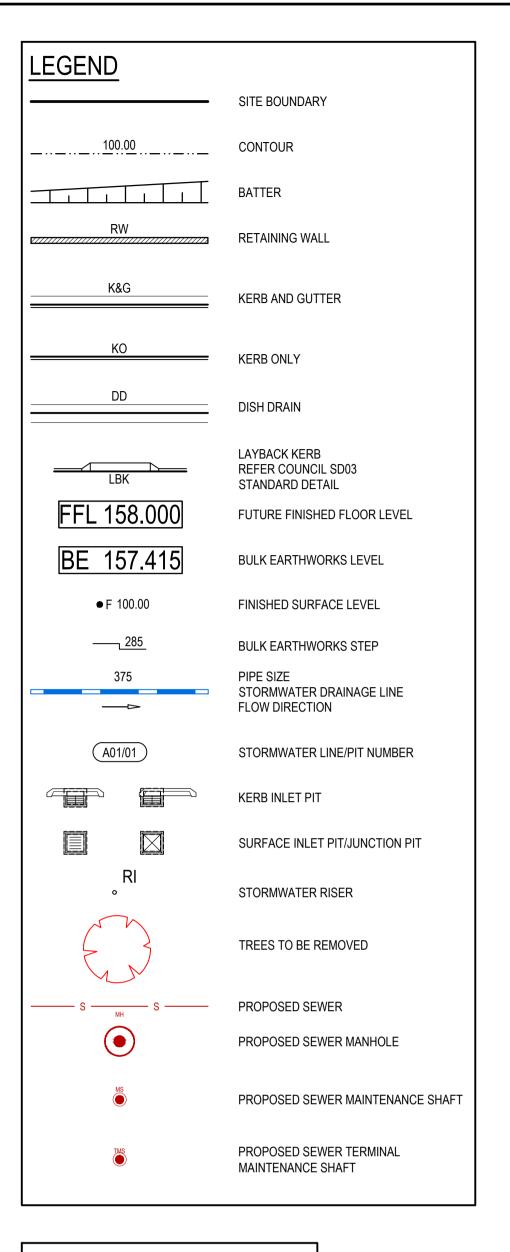
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	AS SHOWN	FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION					
	Date 07/03/2024						
	Size	Project Number/Drawing Number	Revision				
_ SECTIONS	A1	230057-00-DA-C04.21	2				
	Datum GDA 2020	230037-00-DA-C04.21	5				
			1				

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5	31/03/2025	UPDATES ADDRESSING COUNCIL COMMENTS DA ISSUE	DK	AL		MKH
4	22/01/2025	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH
3	15/01/2025	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH
1	7/03/2024	ISSUED FOR DEVELOPMENT APPLICATION	ZW	LD		MKH
1	28/02/2024	80% ISSUED FOR INFORMATION	ZW	LD		MKH
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.





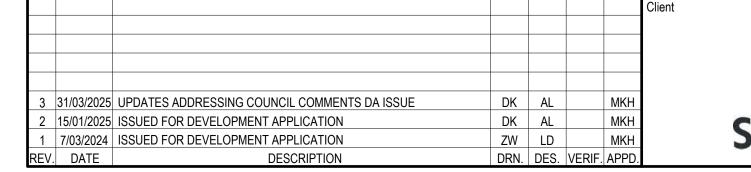


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PROVIDE STORMWATER FILTER BASKETS AT THE FOLLOWING PITS: A01/01, A01/02, A01/04, A01/12, A02/01, A05/01, A06/01 B01/01, B02/02, B02/03, B02/04, B02/05, B02/06, B02/07, B02/08, B02/09, C01/02, C01/03

	Scale	Status		Ĺ			
	1:200	FOR INFORMATION ONLY					
	Date 28/02/2024						
	Size	Project Number/Drawing Number	Revision	ļ			
TER MANAGEMENT PLAN	A1						
	Datum	230057-00-DA-C05.02 5					
	GDA 2020						

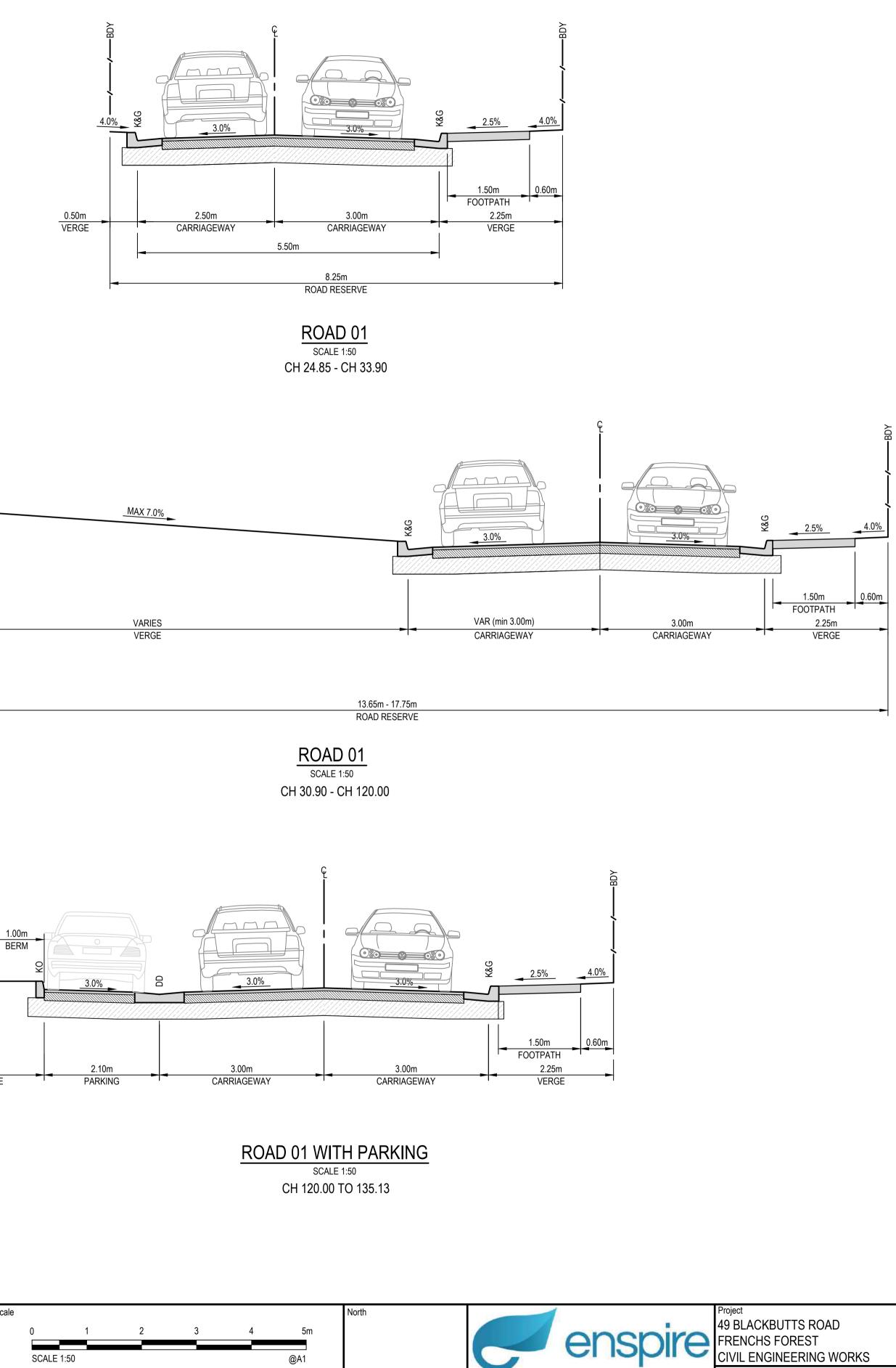






MAX 4

2.00m VERGE



	Enspire Solutions Pty Ltd	t, North Sydney NSW 2060	ROAD TYPICAL CROSS SECT
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	Scale 1:50 Date 07/03/2024	Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION	
TIONS	Size A1 Datum GDA 2020	Project Number/Drawing Number 230057-00-DA-C06.01	Revision 3

CAD File: P:\230057 BlackbuttsRd\D-Civil\00-SiteWide\Drawings\6-DACC\230057-00-DA-C06.01 ROAD TYPICAL CROSS SECTIONS.dwg

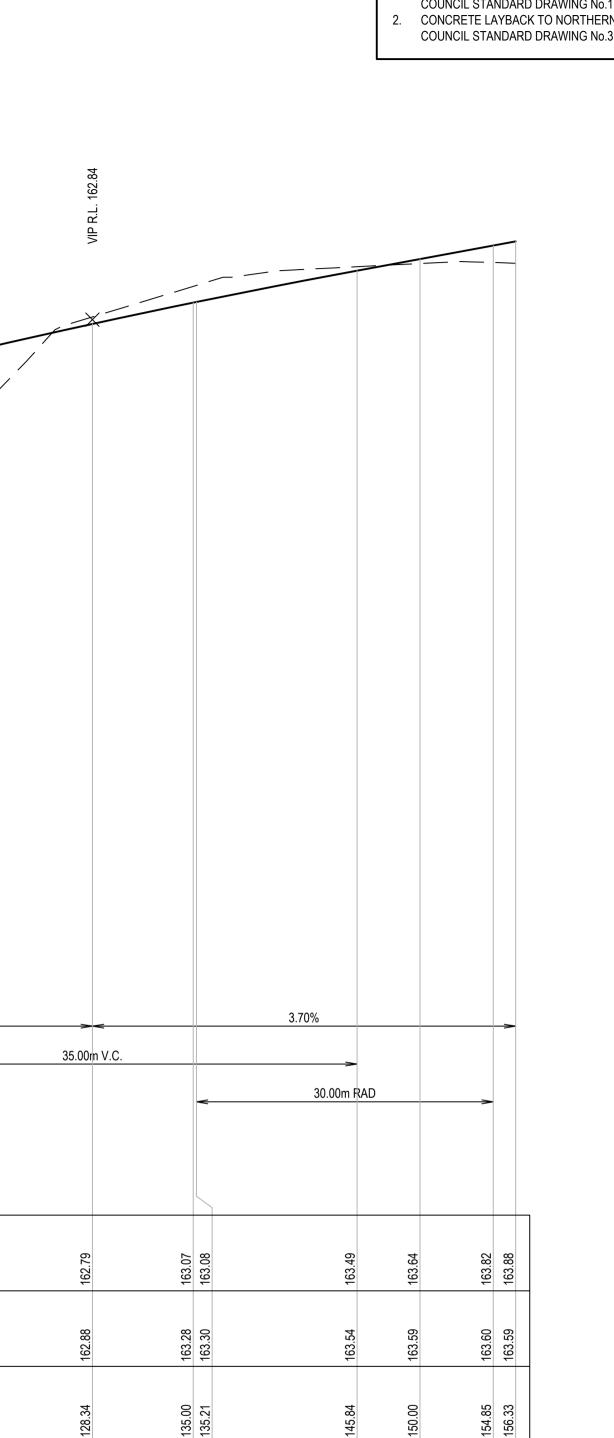
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3	31/03/2025	UPDATES ADDRESSING COUNCIL COMMENTS DA ISSUE	DK	AL		MKH	
2	15/01/2025	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH	
1	7/03/2024	ISSUED FOR DEVELOPMENT APPLICATION	ZW	LD		MKH	
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	

SEKISUI HOUSE	The with

							X VIP R.L. 158.50											
DESIGN GRADELINE		SAG VIP R.L. 155.06 VIP R.L. 155.19 VIP R.L. 155.19 VIP R.L. 155.54		9.00%									5.00%					
VERTICAL GEOMETRY				<			35.00m	V.C.									<	
HORIZONTAL GEOMETRY						<	2	0.00m RAD	~~~		-28.90m RAD		><	30.00m RAI) >			
DATUM RL 151.0																		
FINISHED SURFACE		155.06 155.09 155.16 155.19 155.54	156.12	156.93	157.45	158.00	158.33	158.56	158.89	159.38 159.43		160.18	160.55	160.93	161.25	161.68 161.73	161.97	162.41
EXISTING SURFACE	155.16	155.11 155.12 155.20 155.35 155.53	155.99	156.73	157.30	157.89	158.28	158.51	158.95	159.52 159.57		159.60	160.10	160.88	161.20	161.46 161.51	161.44	161.62
CHAINAGE	0.00	4.59 4.60 5.05 6.54 8.62	15.00	24.02	30.00	37.00	41.52	45.00	50.08	59.02 60.00		75.00	82.43	00.06	96.38	105.00	110.84	120.00
ROAD 01 LONGITUDINA SCALE 1:250 HORI SCALE 1:50 VERT	L SECTION	<u>ON</u>																

northern beaches council THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT DA2024/0492

Scale H: 0 5 10 15 20 25m V: 0 1 2 3 4 5 SCALE: H:1:250 V:1:50 @A1		enspire	Project 49 BLACKBUTTS ROAD FRENCHS FOREST CIVIL ENGINEERING WORKS Title ROAD LONGITUDINAL SECTIC
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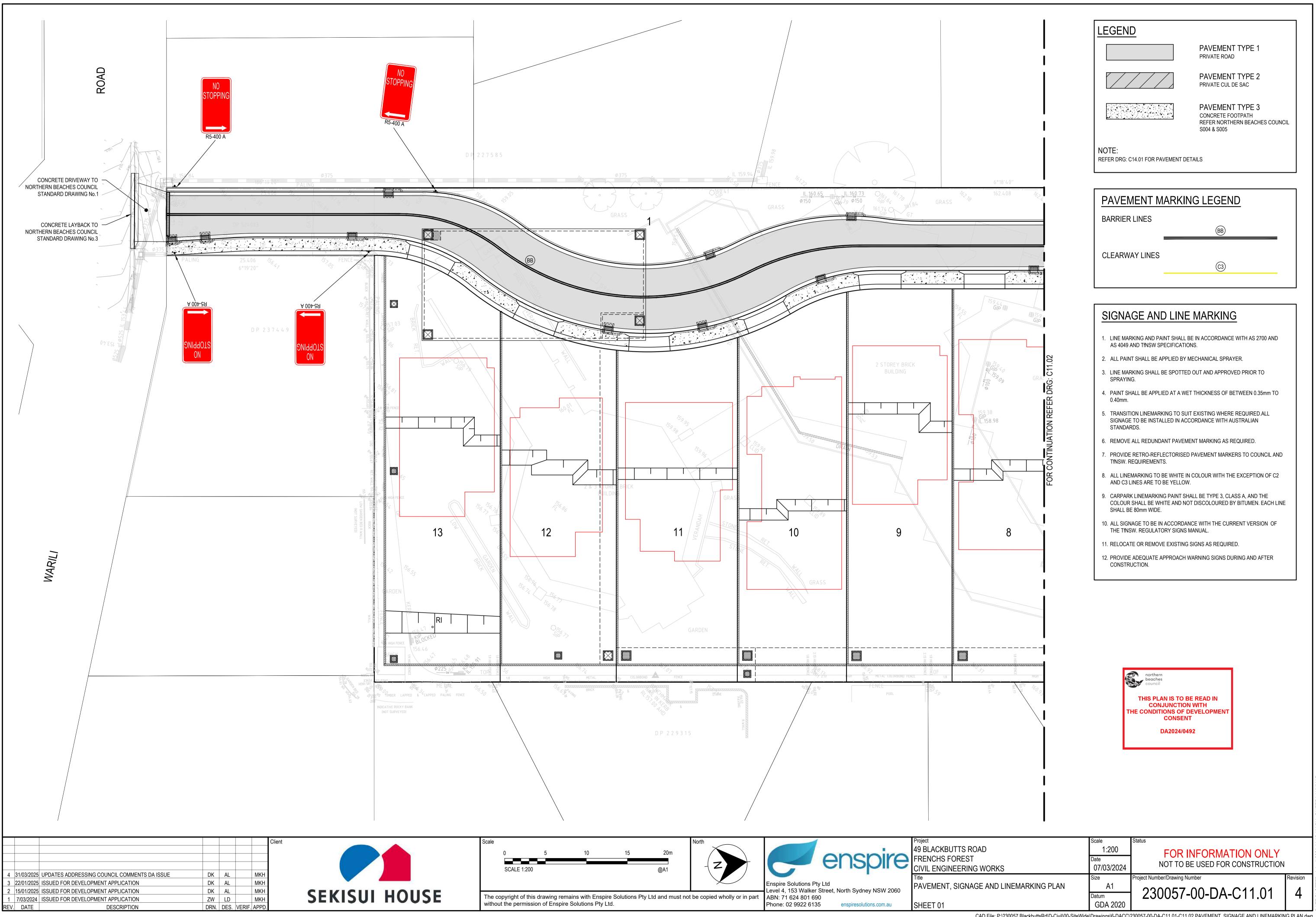


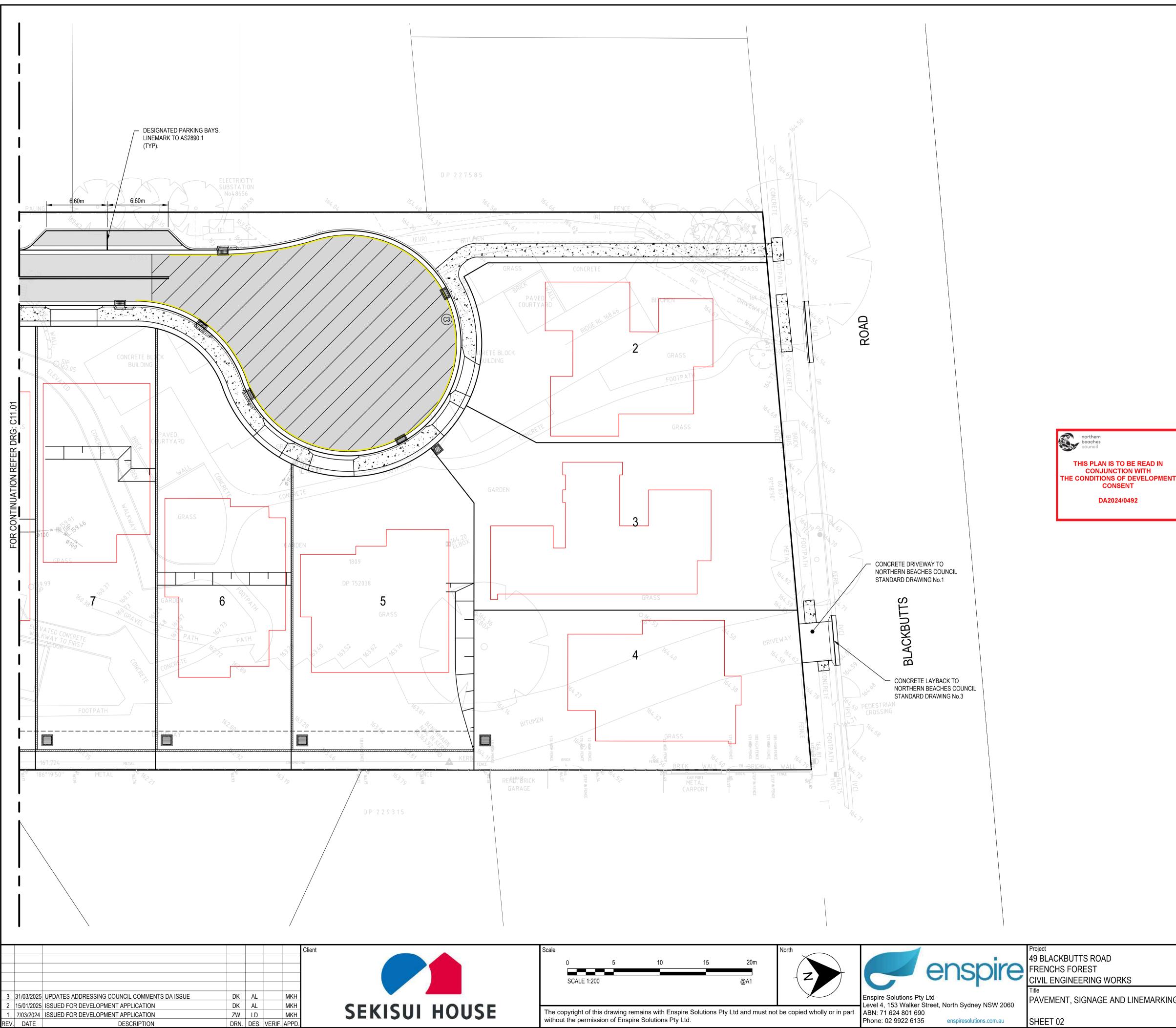
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	Datum	230057-00-DA-C07.01	3	Ō				
	GDA 2020							

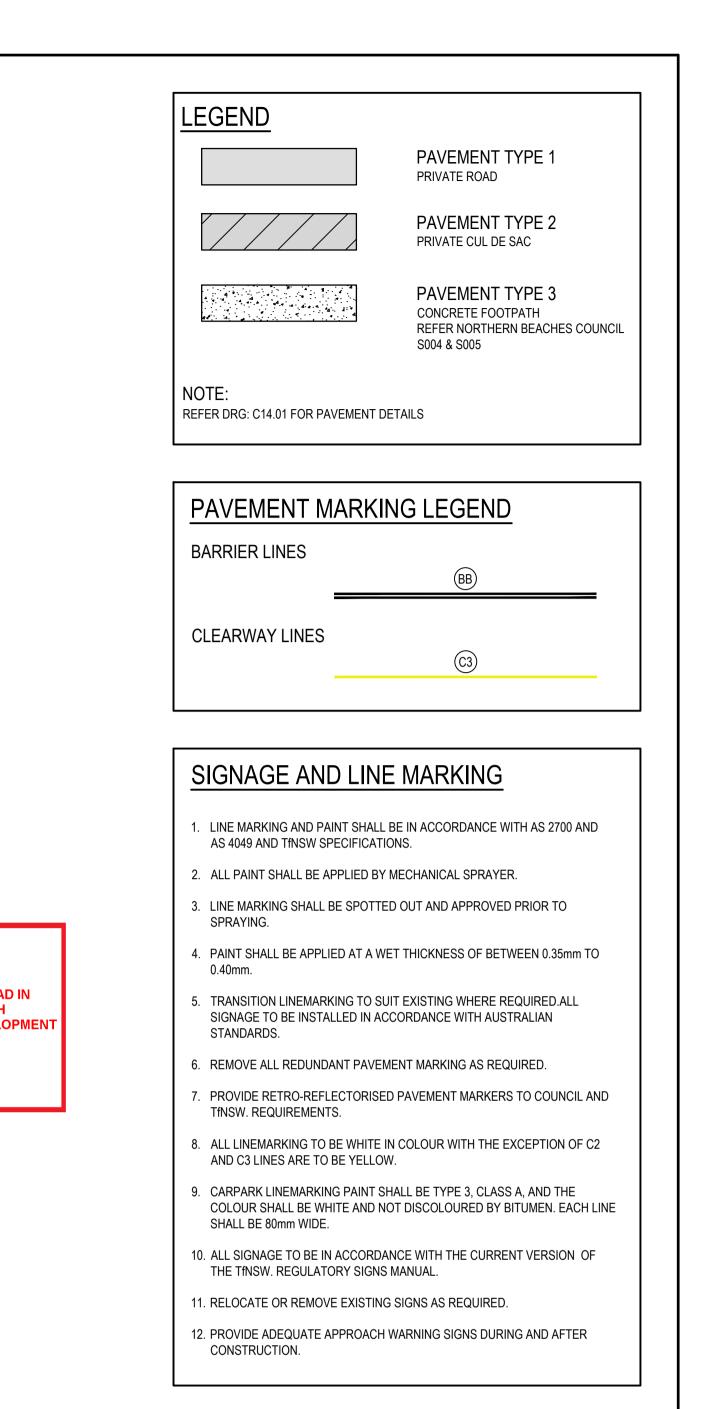
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NOTE

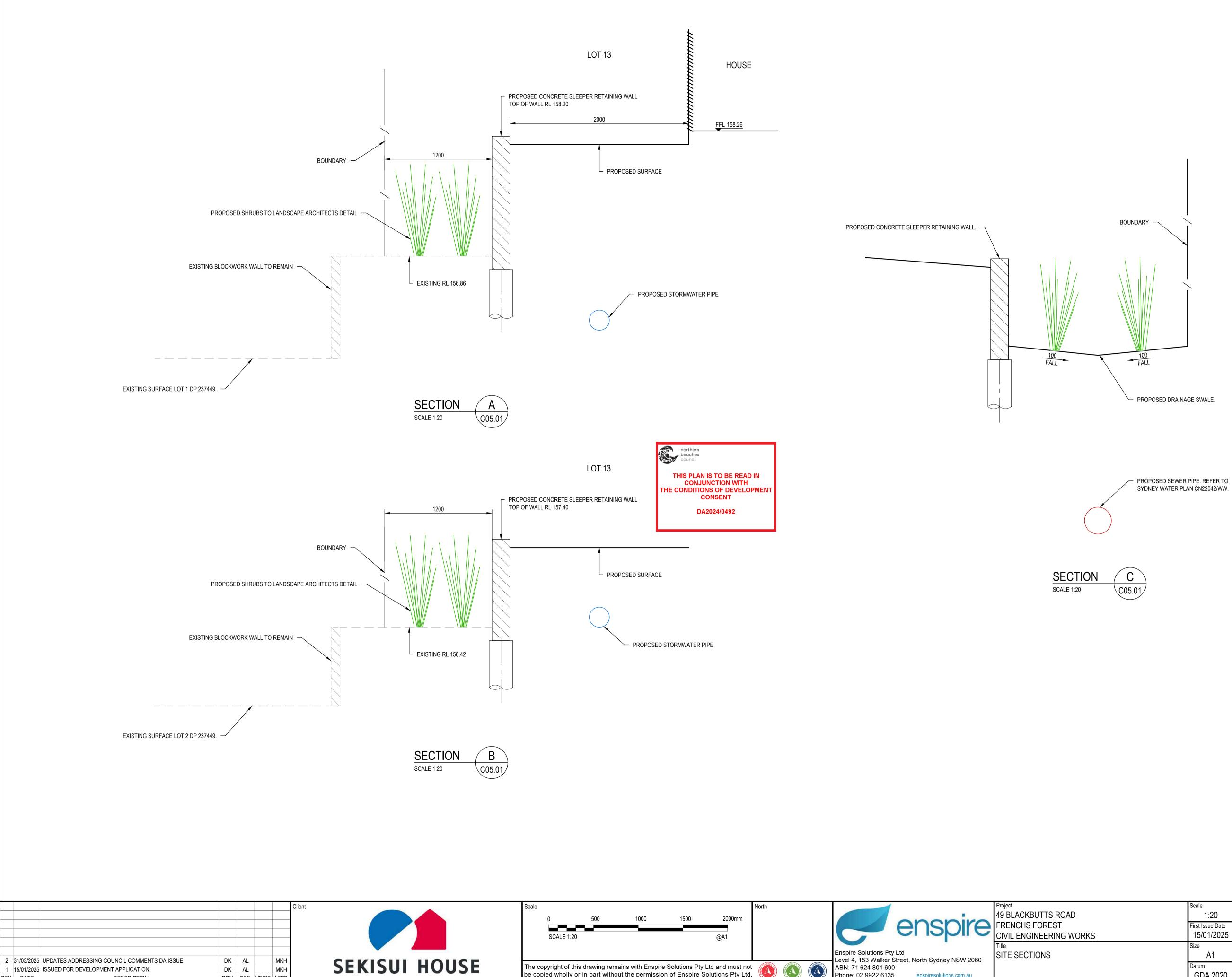
CONCRETE DRIVEWAY TO NORTHERN BEACHES COUNCIL STANDARD DRAWING No.1.
 CONCRETE LAYBACK TO NORTHERN BEACHES COUNCIL STANDARD DRAWING No.3.







				7 AM BY
	Scale	Status		11:57
	1:200	FOR INFORMATION ONLY		2025
	Date 07/03/2024	NOT TO BE USED FOR CONSTRUCTION		1 Anril 2
	Size	Project Number/Drawing Number	Revision	Ē
EMARKING PLAN	A1	230057-00-DA-C11.02	3	
	Datum GDA 2020	230037-00-DA-CTT.02	3	DATE PL



DRN. DES. VERIF. APPD.

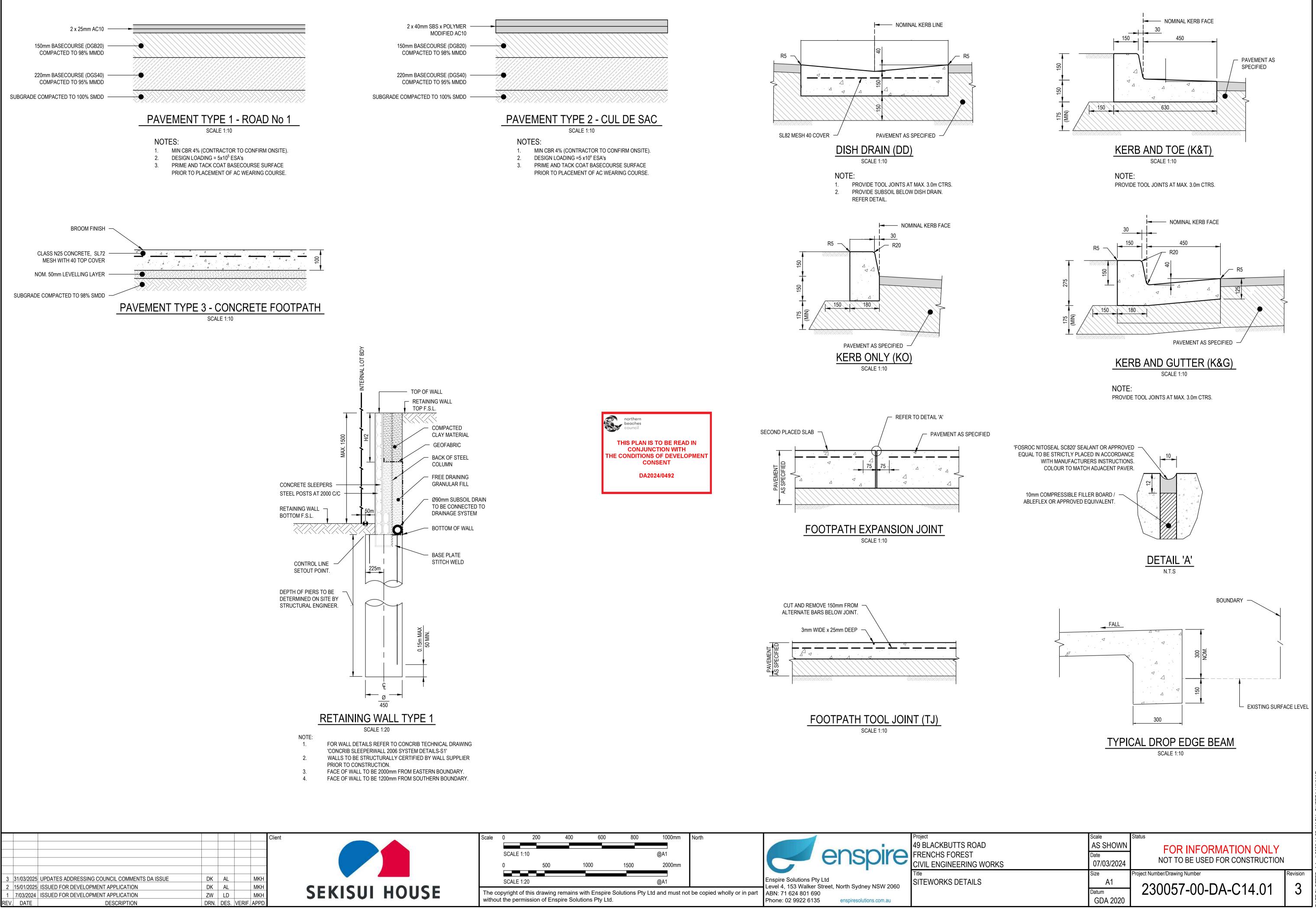
REV. DATE

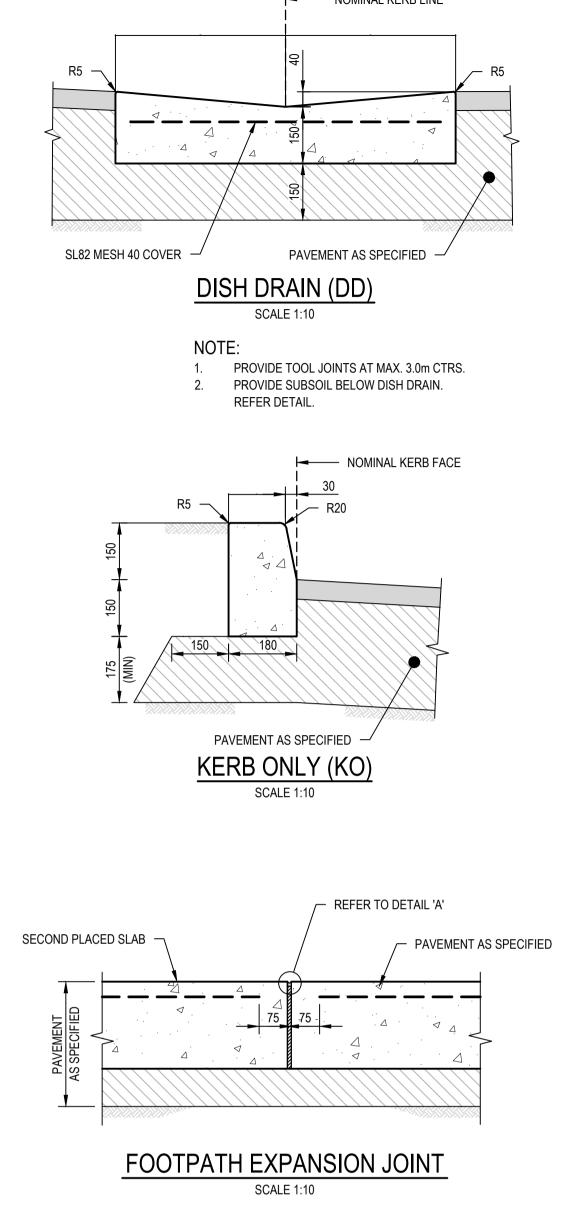
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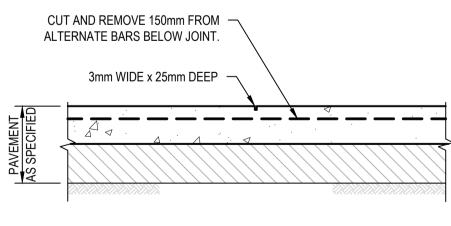
ale						North					
	0	500	1000	1500	2000mm					anchira	49 BLACKBUTTS ROAD FRENCHS FOREST
	SCALE 1:20				@A1				6	el ishi e	CIVIL ENGINEERING WORKS
											Title
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e copi	ied wholly or ir	n part withou	t the permission	n of Enspire So	olutions Pty Ltd.	2 20 90 11	2 1400 1400 1	100 4500 11 H	Phone: 02 9922 6135	enspiresolutions.com.au	

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Size A1 Datum GDA 2020	Project Number/Drawing Number 230057-00-DA-C13.01	Revision 2			







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							Client
2	31/03/2025	UPDATES ADDRESSING COUNCIL COMMENTS DA ISSUE	DK	AL		MKH	
1	15/01/2025	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH	
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	



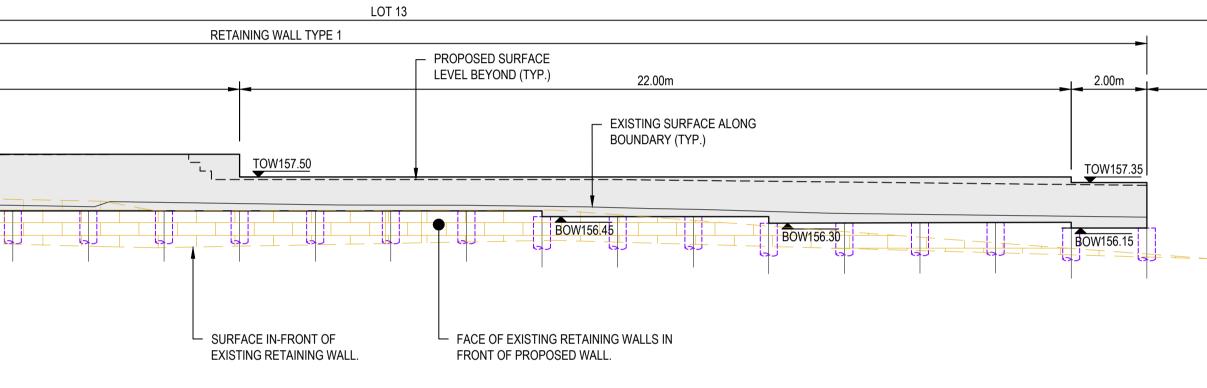
	1.04m 1.04m 4.00m TOW158.10	16.00m
157.80BOW	1.04m 1.04m BOW 157.65	W156.60

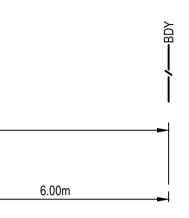
Scale 0 1 2 4 6 8 10m SCALE 1:100 @A1			Project 49 BLACKBUTTS ROAD FRENCHS FOREST CIVIL ENGINEERING WORKS	Scale 1:100 First Issue Date 15/01/2025	Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION	
		Enspire Solutions Pty Ltd Level 4, 153 Walker Street, North Sydney NSW 2060	Title RETAINING WALL ELEVATIONS	Size A1	, ,	
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Responses to the searchest of the search

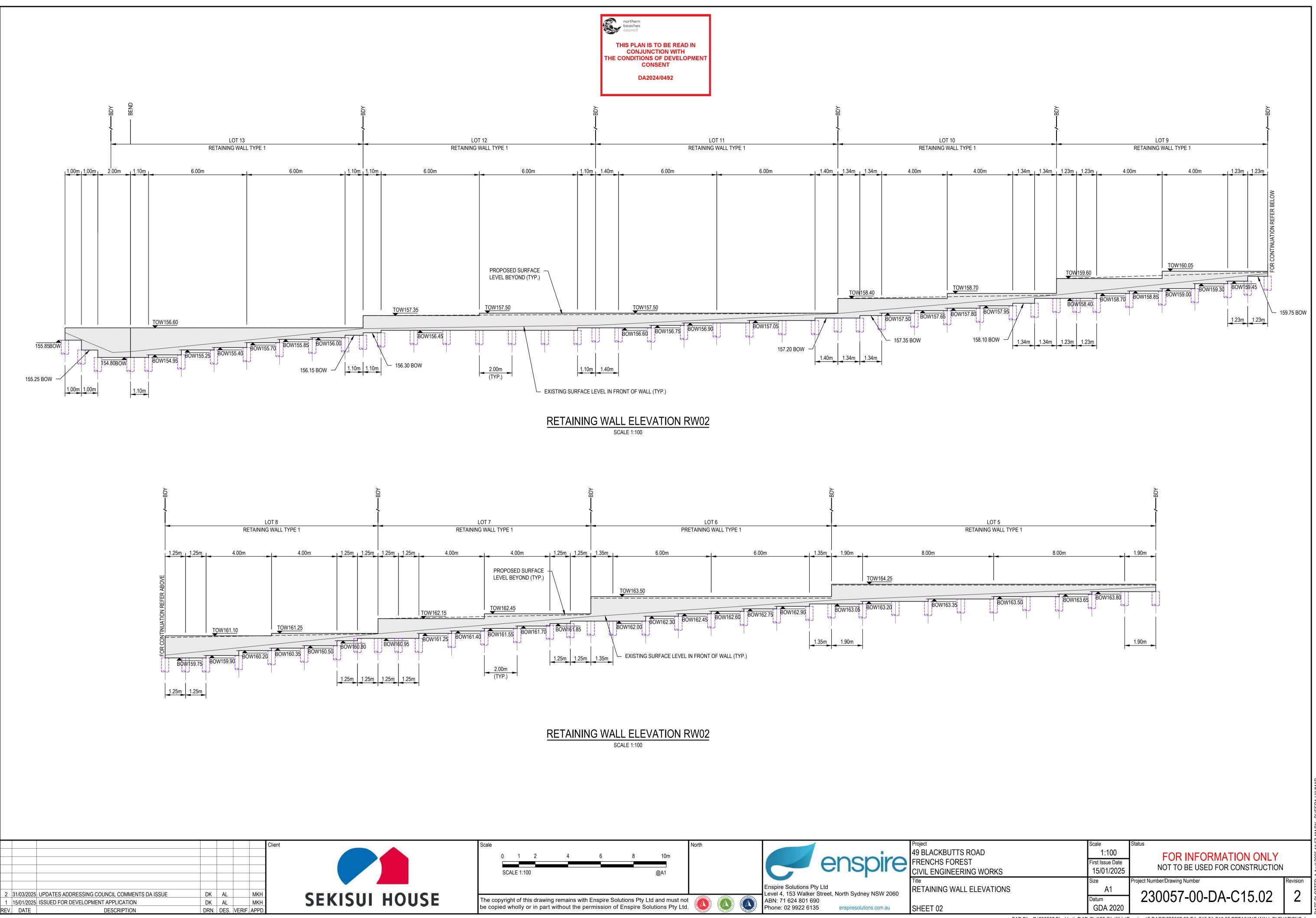
RETAINING WALL ELEVATION RW01

SCALE 1:100



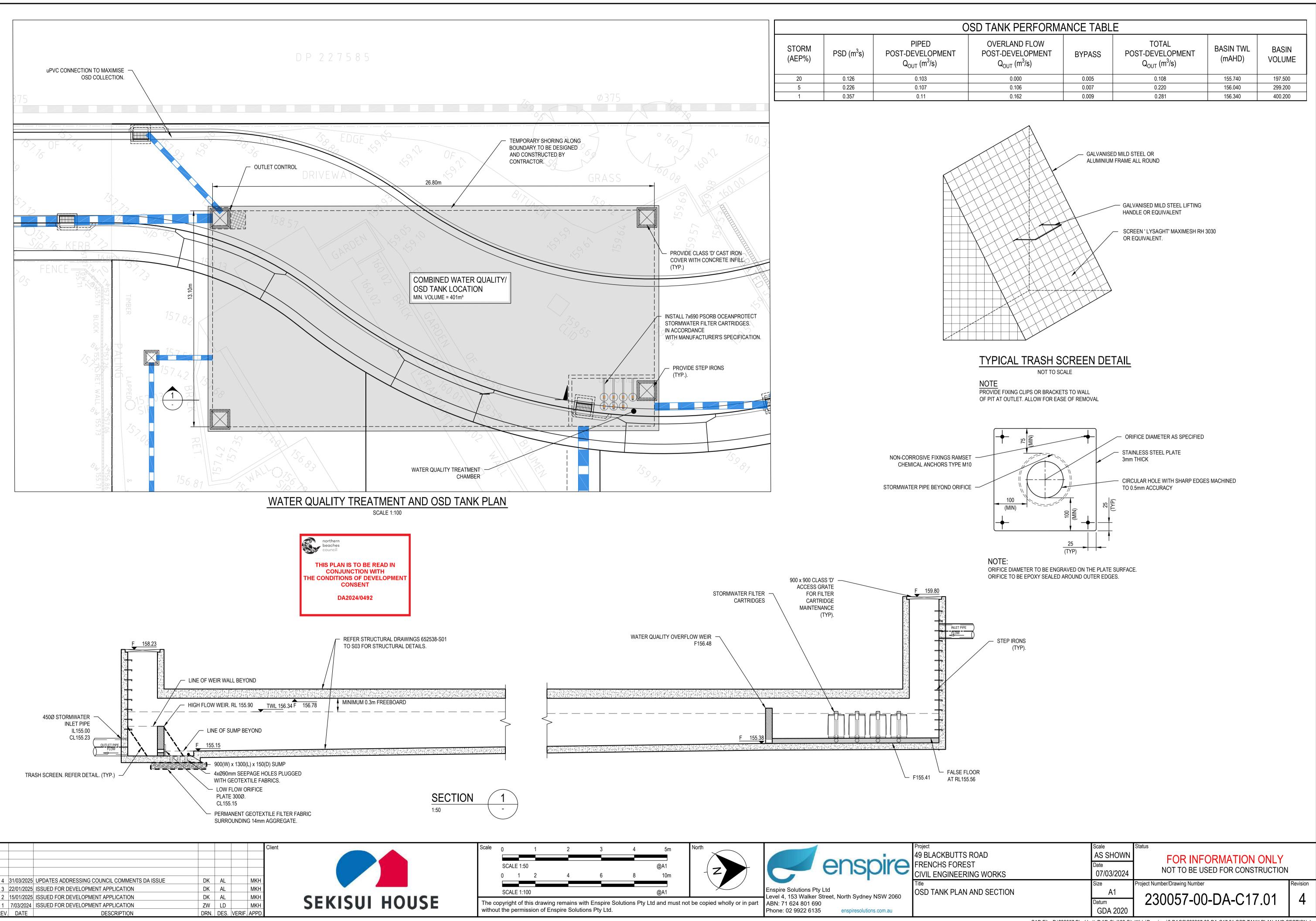


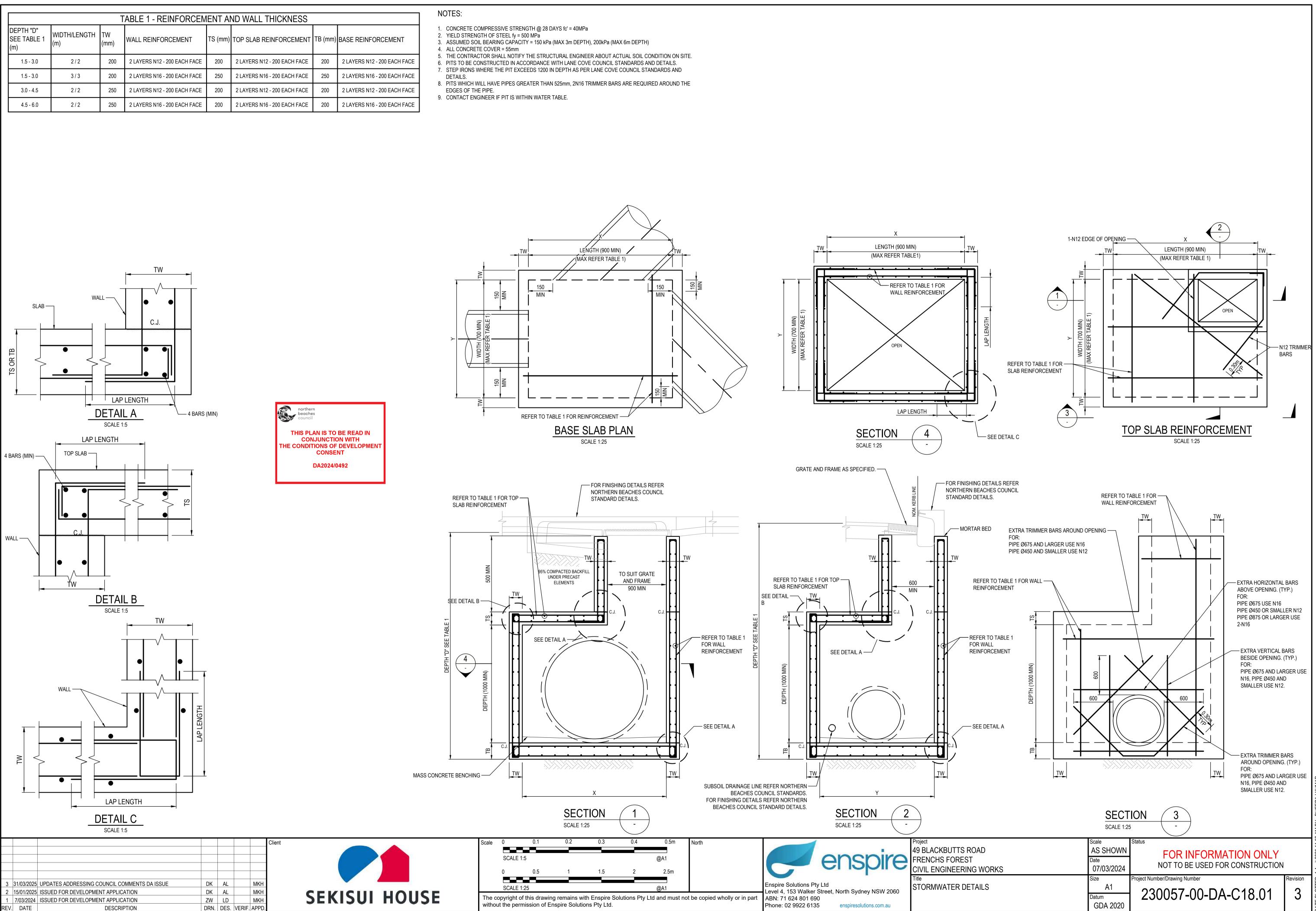
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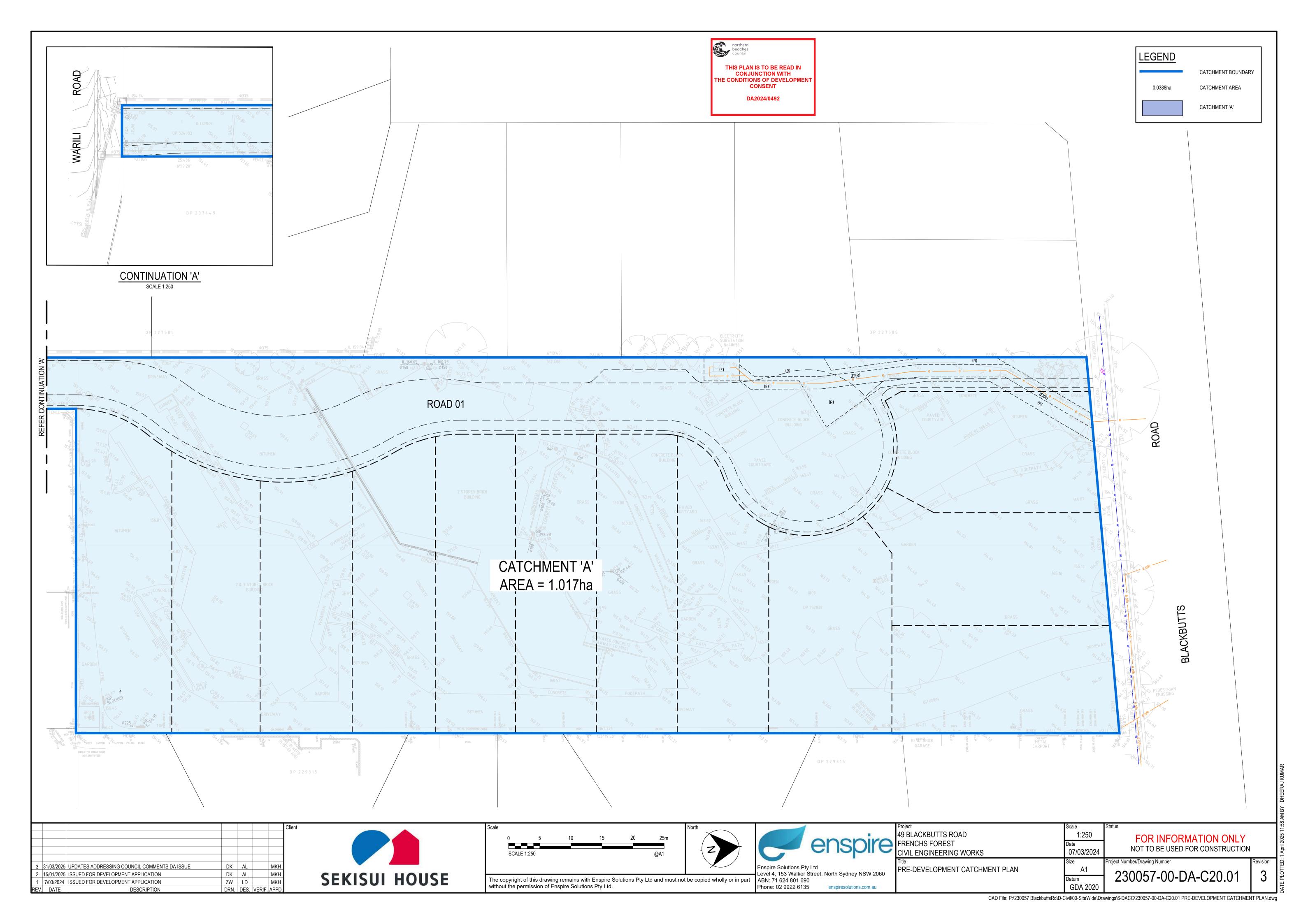
Scale North Project	^v roject
0 1 2 4 6 8 10m 49 B	19 BLACKBUTTS ROAD
	FRENCHS FOREST
SCALE 1:100 @A1	CIVIL ENGINEERING WORKS
Title	îtle
Enspire Solutions Pty Ltd RET	RETAINING WALL ELEVATIONS
Level 4, 153 Walker Street, North Sydney NSW 2060	
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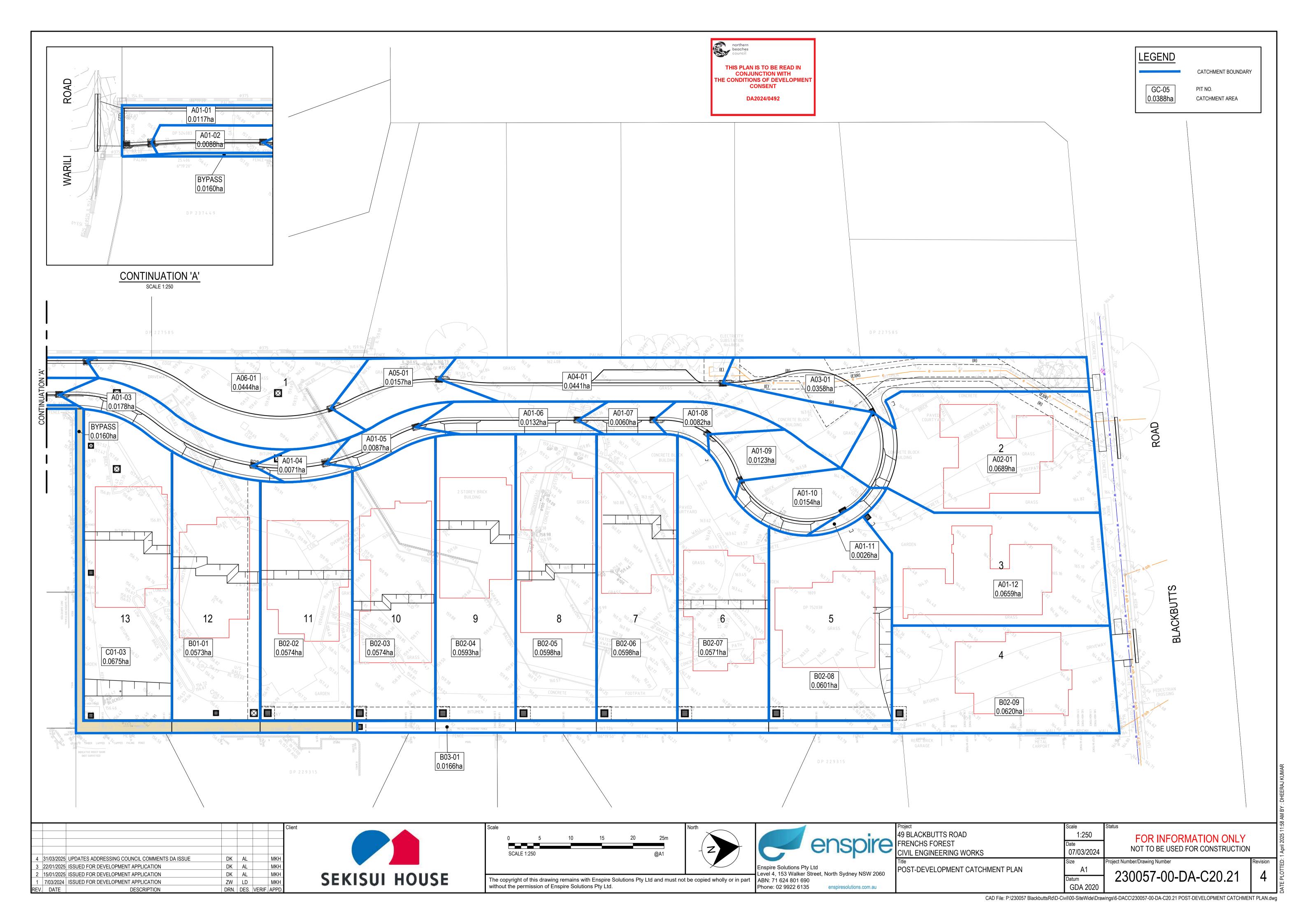
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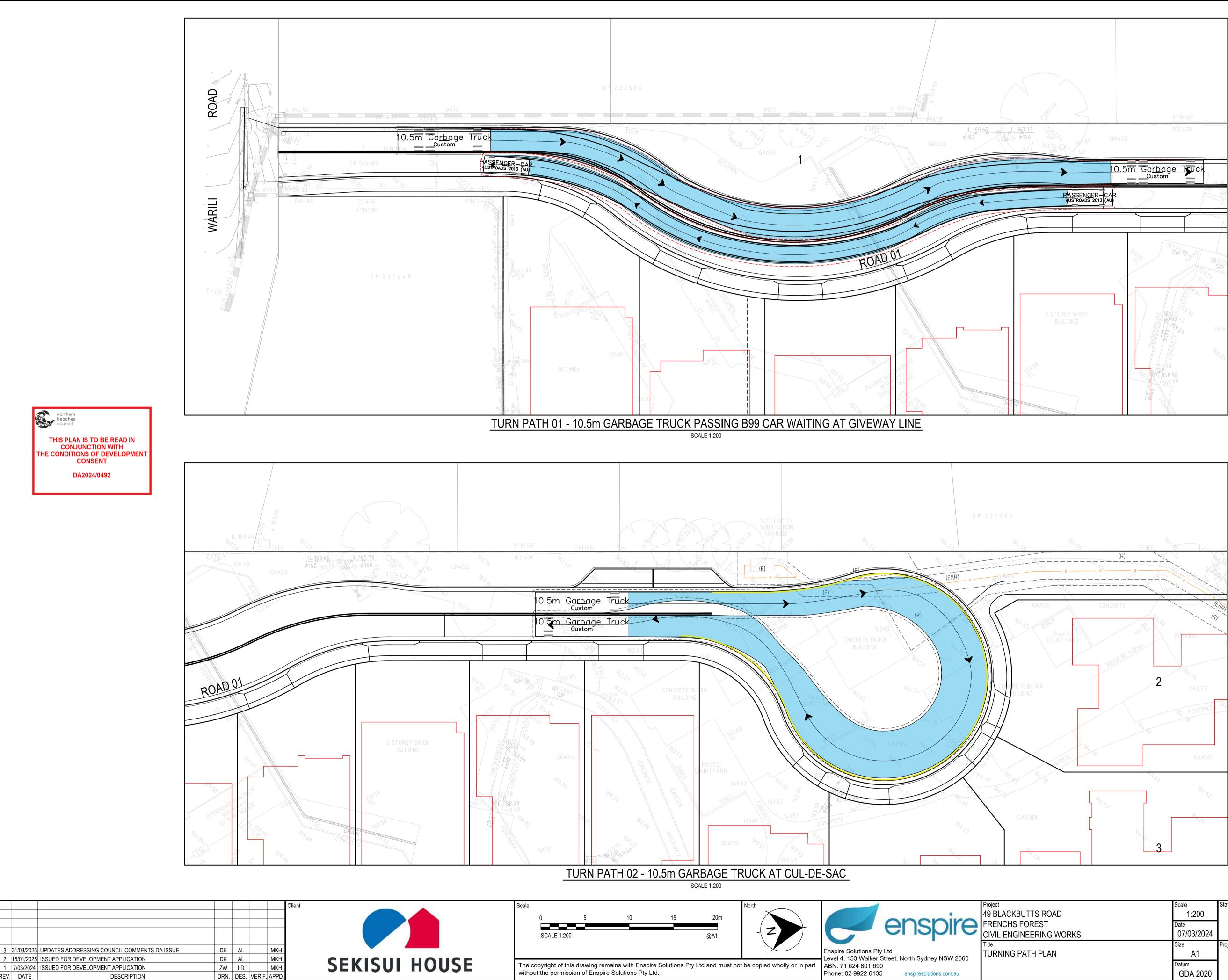




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	Scale 1:200 Date 07/03/2024	Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION					
	Size A1	Project Number/Drawing Number 230057-00-DA-C22.01	Revision Q	PLOTTED:			
	Datum GDA 2020	20007-00-DA-022.01		DATE P			
CAD File: P:\230057 BlackbuttsRd\D-Civil\00-SiteWide\Drawings\6-DACC\230057-00-DA-C22.01 TURNING PATH PLANS.dwg							

0TTED: 1 April 2025 11:58 AM BY : DHEERAJ KUM