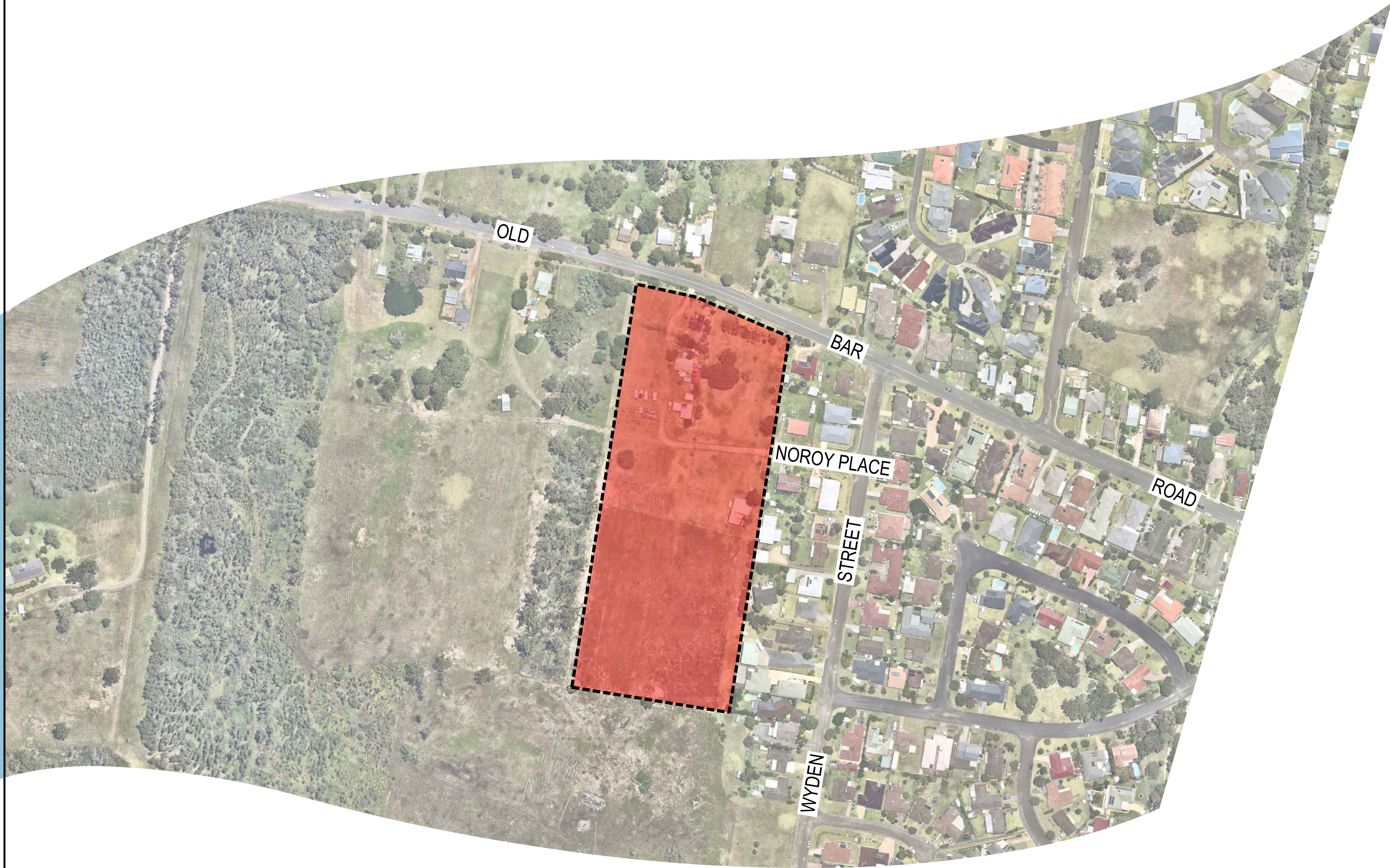




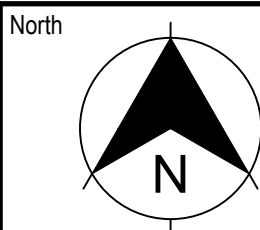
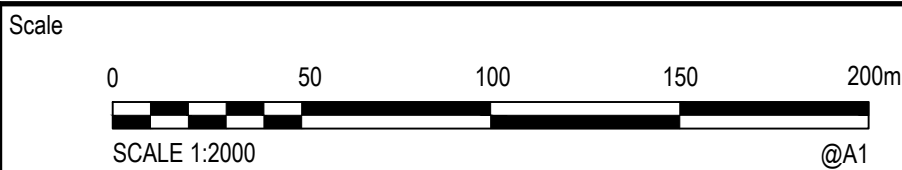
MIJOLLO INTERNATIONAL

86-92 OLD BAR ROAD
OLD BAR NSW 2430
CIVIL ENGINEERING WORKS
DEVELOPMENT APPLICATION

DRAWING SCHEDULE

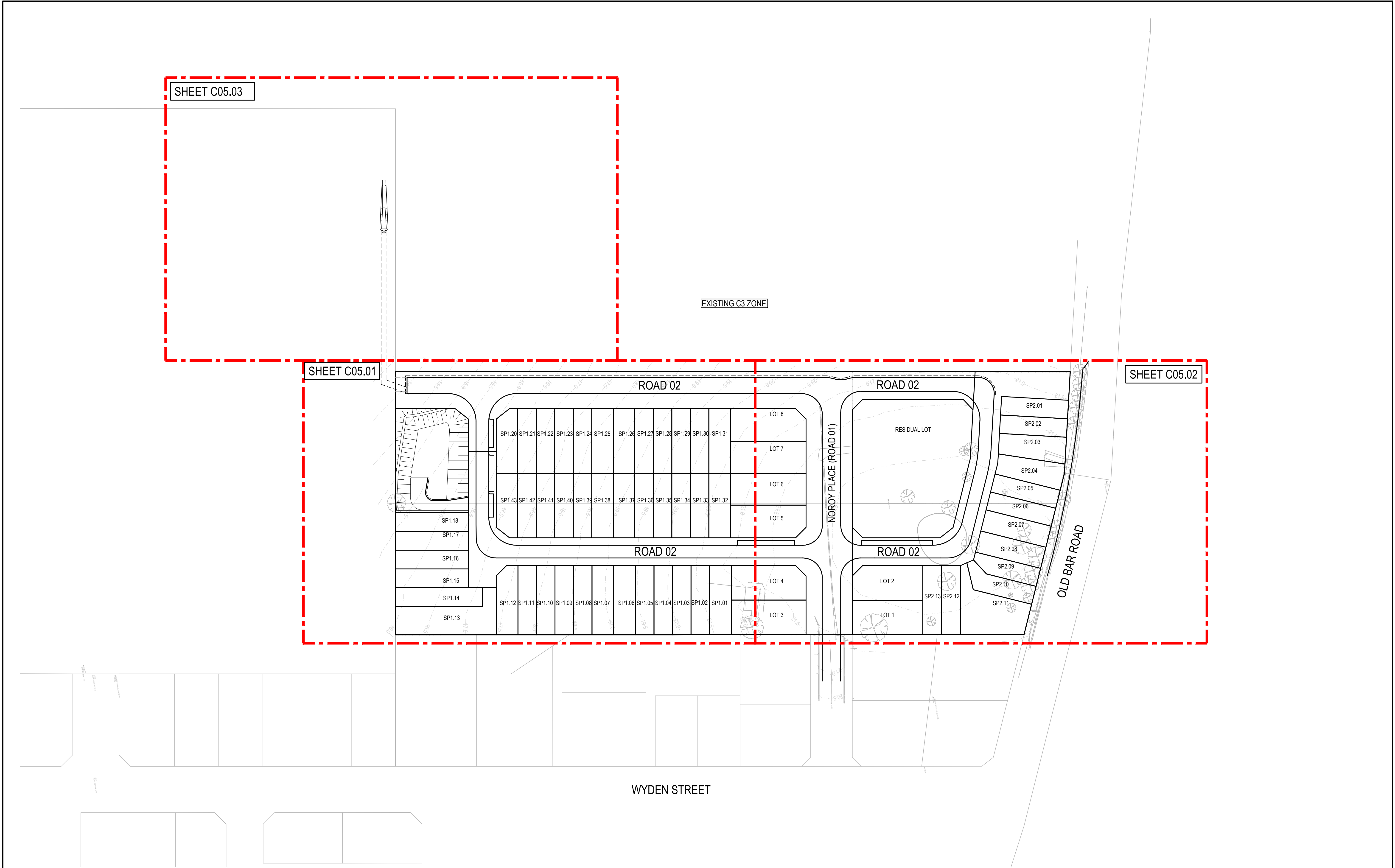
DRAWING NUMBER	DESCRIPTION
210036-DA-C01.01	COVER SHEET AND DRAWING SCHEDULE
210036-DA-C01.41	GENERAL ARRANGEMENT PLAN
210036-DA-C03.01	EROSION AND SEDIMENTATION CONTROL PLAN
210036-DA-C03.21	EROSION AND SEDIMENTATION CONTROL DETAILS
210036-DA-C03.31	SEDIMENT BASIN PLAN AND DETAILS - SHEET 01
210036-DA-C03.32	SEDIMENT BASIN PLAN AND DETAILS - SHEET 02
210036-DA-C04.01	BULK EARTHWORKS - CUT AND FILL PLAN
210036-DA-C04.21	BULK EARTHWORKS - CUT AND FILL SECTIONS - SHEET 01
210036-DA-C04.22	BULK EARTHWORKS - CUT AND FILL SECTIONS - SHEET 02
210036-DA-C05.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01
210036-DA-C05.02	SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02
210036-DA-C05.03	SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 03
210036-DA-C07.01	ROAD LONGITUDINAL & TYPICAL CROSS SECTIONS - SHEET 01
210036-DA-C07.02	ROAD LONGITUDINAL & TYPICAL CROSS SECTIONS - SHEET 02
210036-DA-C14.01	SITEWORKS DETAILS
210036-DA-C11.01	PAVEMENT PLAN
210036-DA-C20.01	PRE-DEVELOPMENT CATCHMENT PLAN
210036-DA-C20.21	POST-DEVELOPMENT CATCHMENT PLAN
210036-DA-C22.01	TURNING PATH PLAN - SHEET 01
210036-DA-C22.02	TURNING PATH PLAN - SHEET 02

REV	DATE	DESCRIPTION	DRN	DES	VERIF	APPD
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC




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Scale 1:2000	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
Date 28/03/2022	Project Number/Drawing Number 210036-DA-C01.01	
Size A1	Revision 5	
Datum MGA94		



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	MC
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC

Client

Scale

North

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Project

86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS

Title

GENERAL ARRANGEMENT PLAN

Scale

1:750

Date

28/03/2022

Size

A1

Datum

MGA94

Status

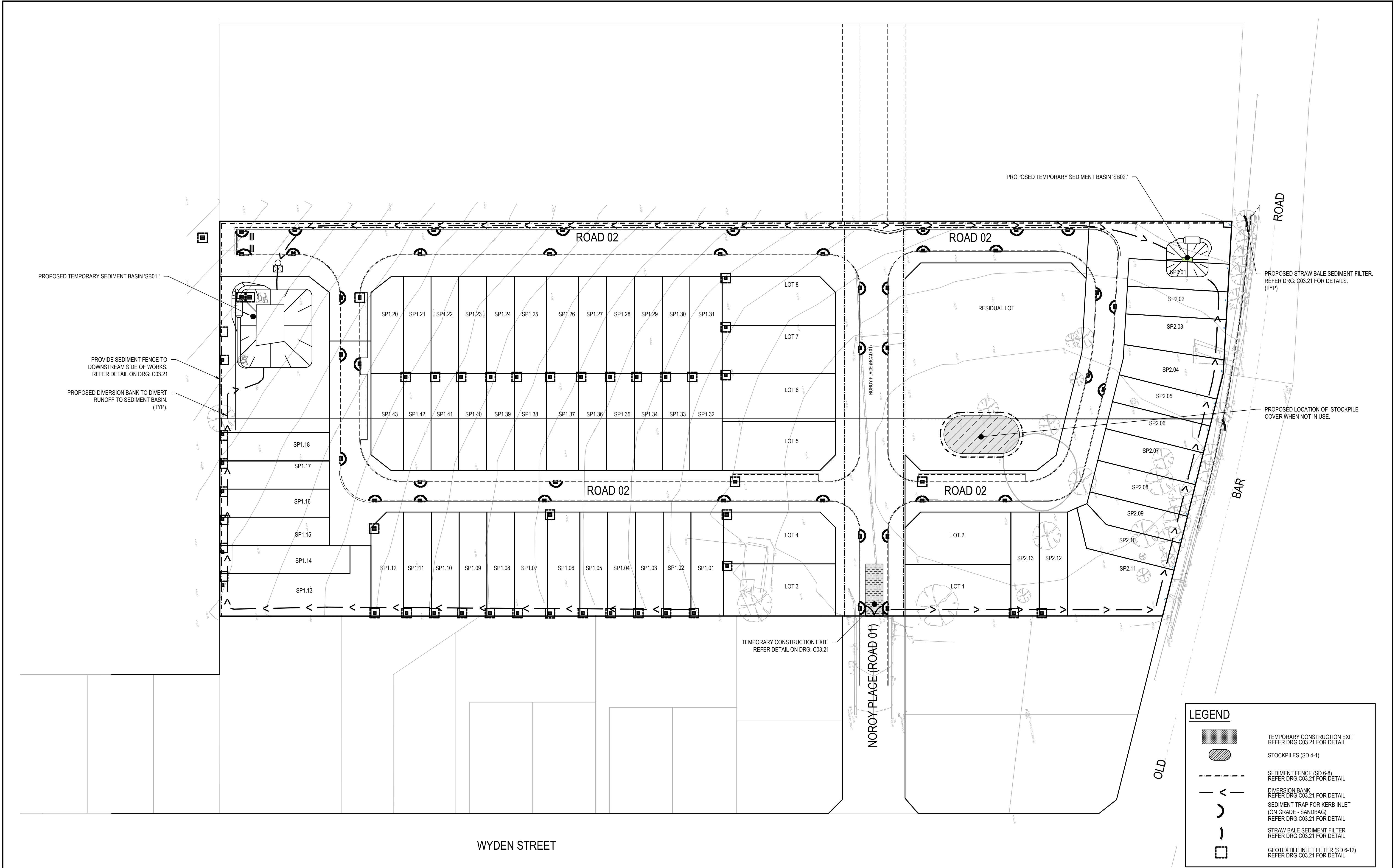
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number

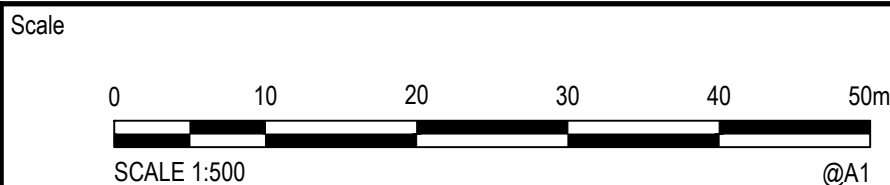
210036-DA-C01.41

Revision

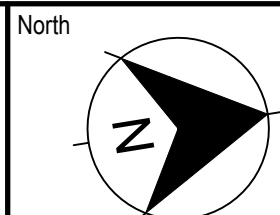
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REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
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3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC



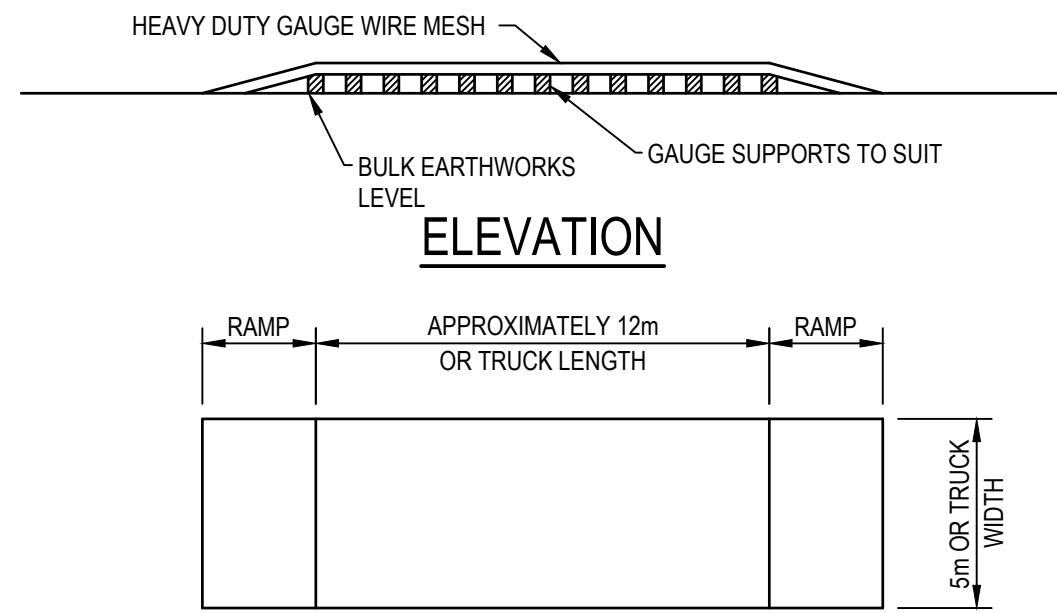
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Project
86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS
Title
EROSION AND SEDIMENTATION CONTROL PLAN

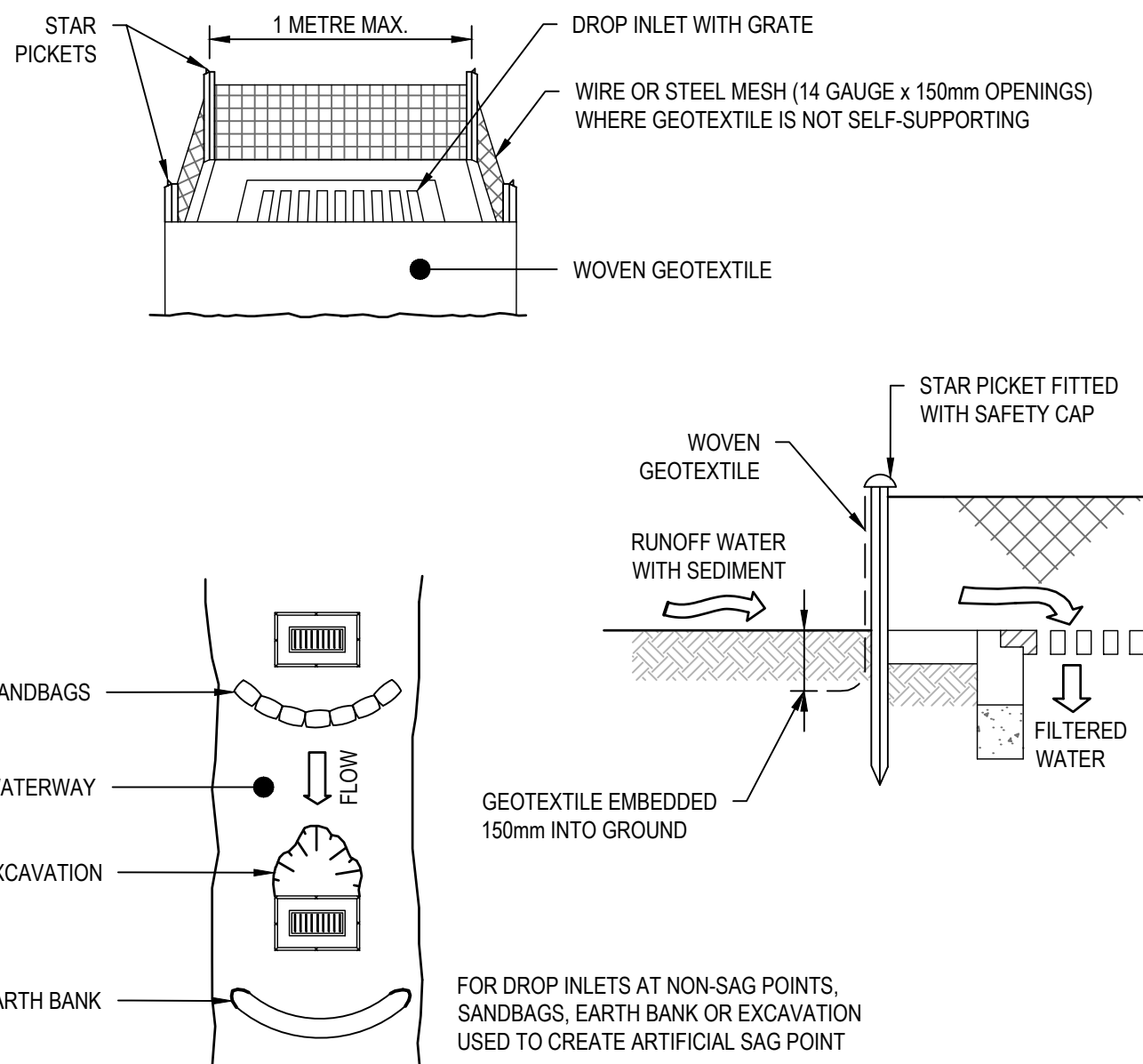
Scale
1:500
Date
28/03/2022
Size
A1
Datum
MGA94

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
Project Number/Drawing Number
210036-DA-C03.01
Revision
5



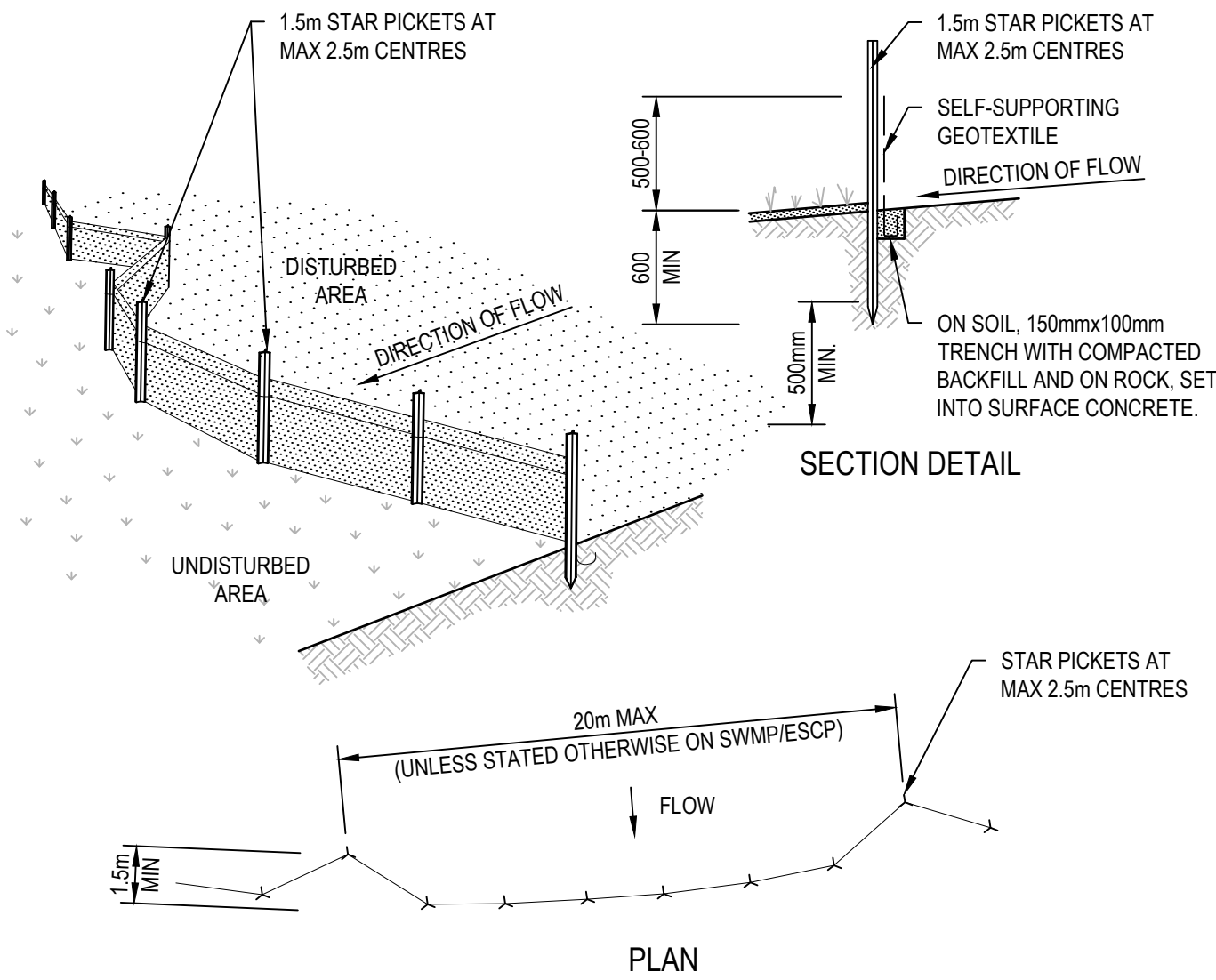
TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



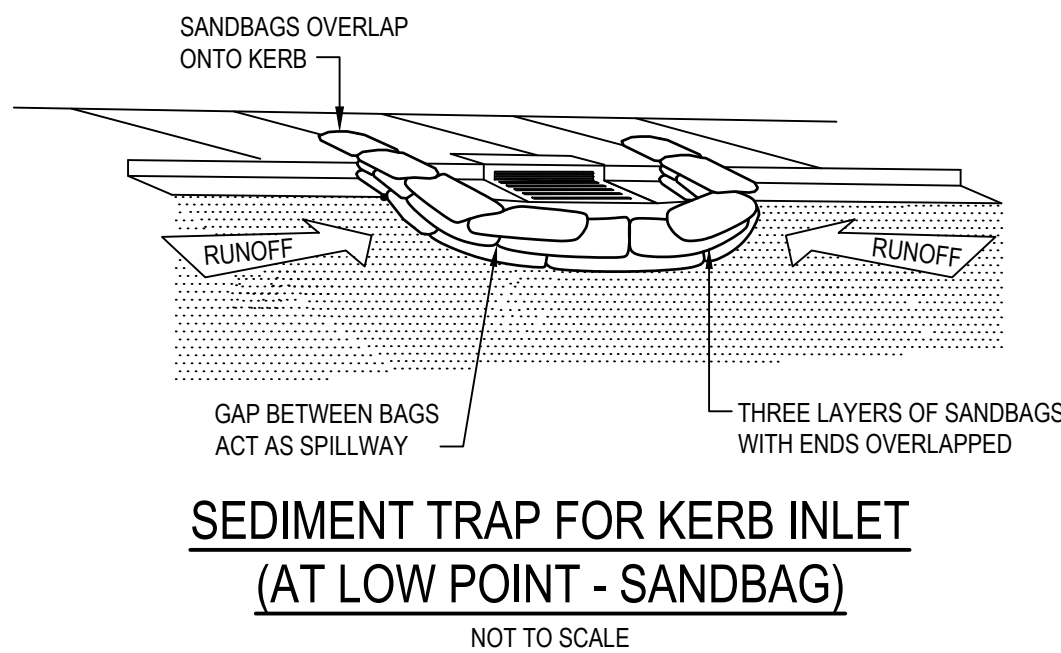
- CONSTRUCTION NOTES**
- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
 - FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
 - IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
 - 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)

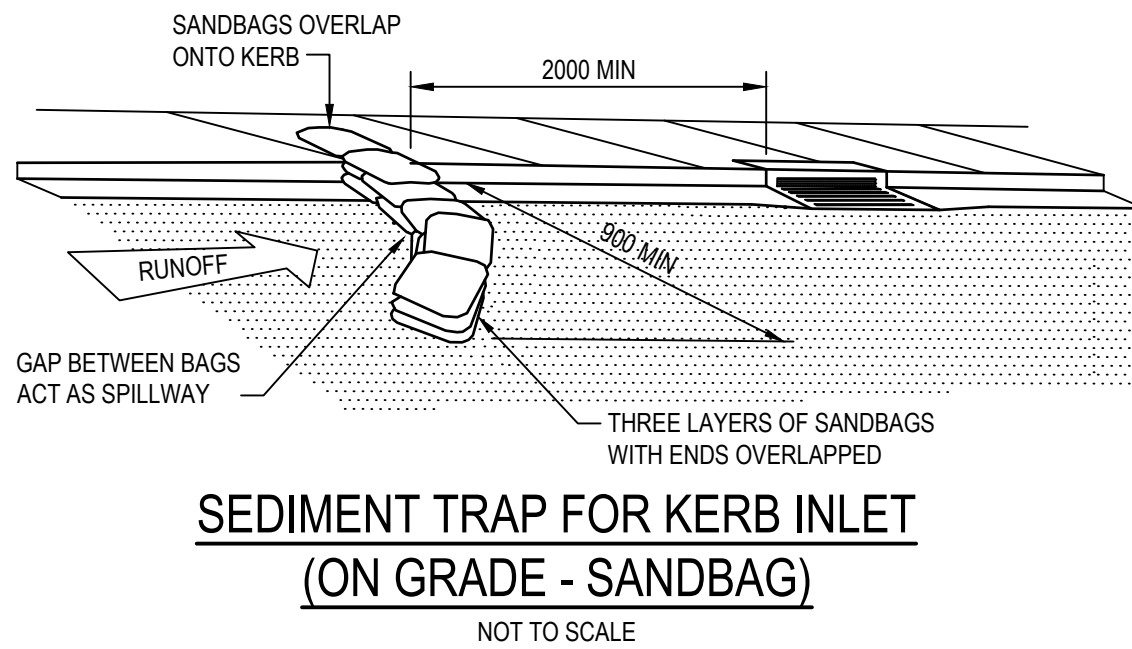


- CONSTRUCTION NOTES**
- CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
 - CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
 - DRIVE 1.5 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.
 - 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.
 - JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
 - BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

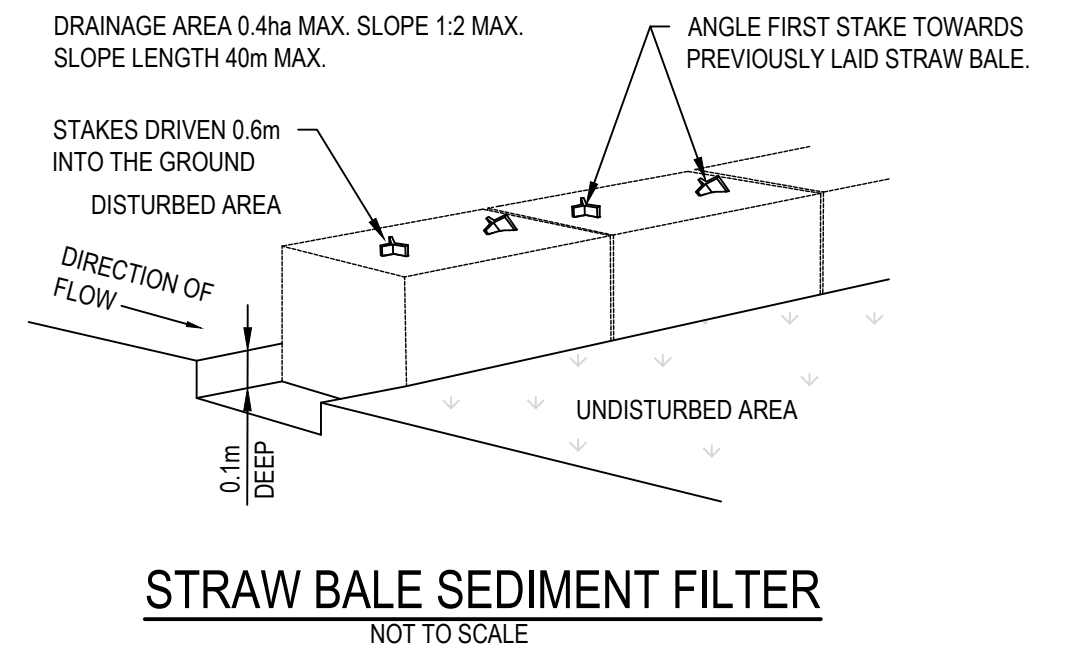
SEDIMENT FENCE (SD 6-8)



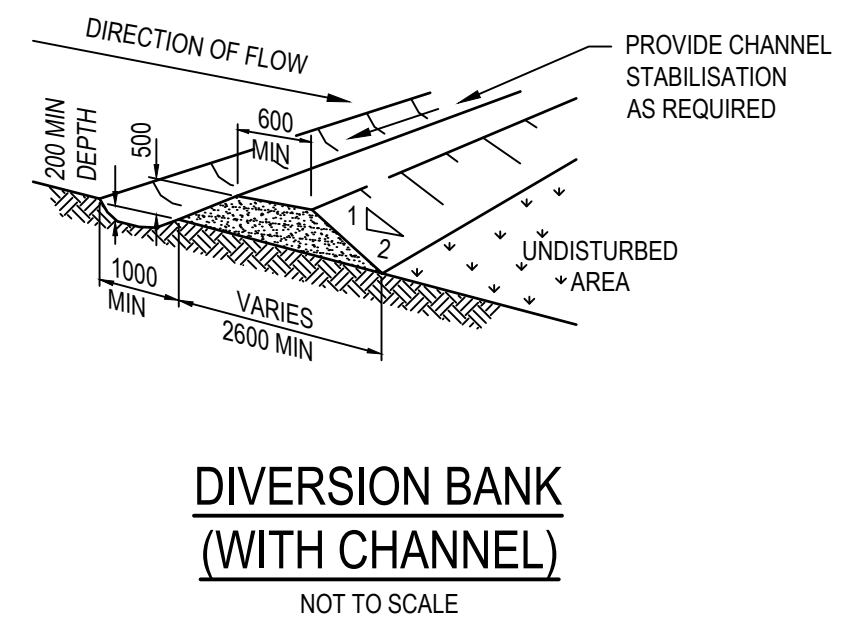
**SEDIMENT TRAP FOR KERB INLET
(AT LOW POINT - SANDBAG)**
NOT TO SCALE



**SEDIMENT TRAP FOR KERB INLET
(ON GRADE - SANDBAG)**
NOT TO SCALE



STRAW BALE SEDIMENT FILTER
NOT TO SCALE



**DIVERSION BANK
(WITH CHANNEL)**
NOT TO SCALE

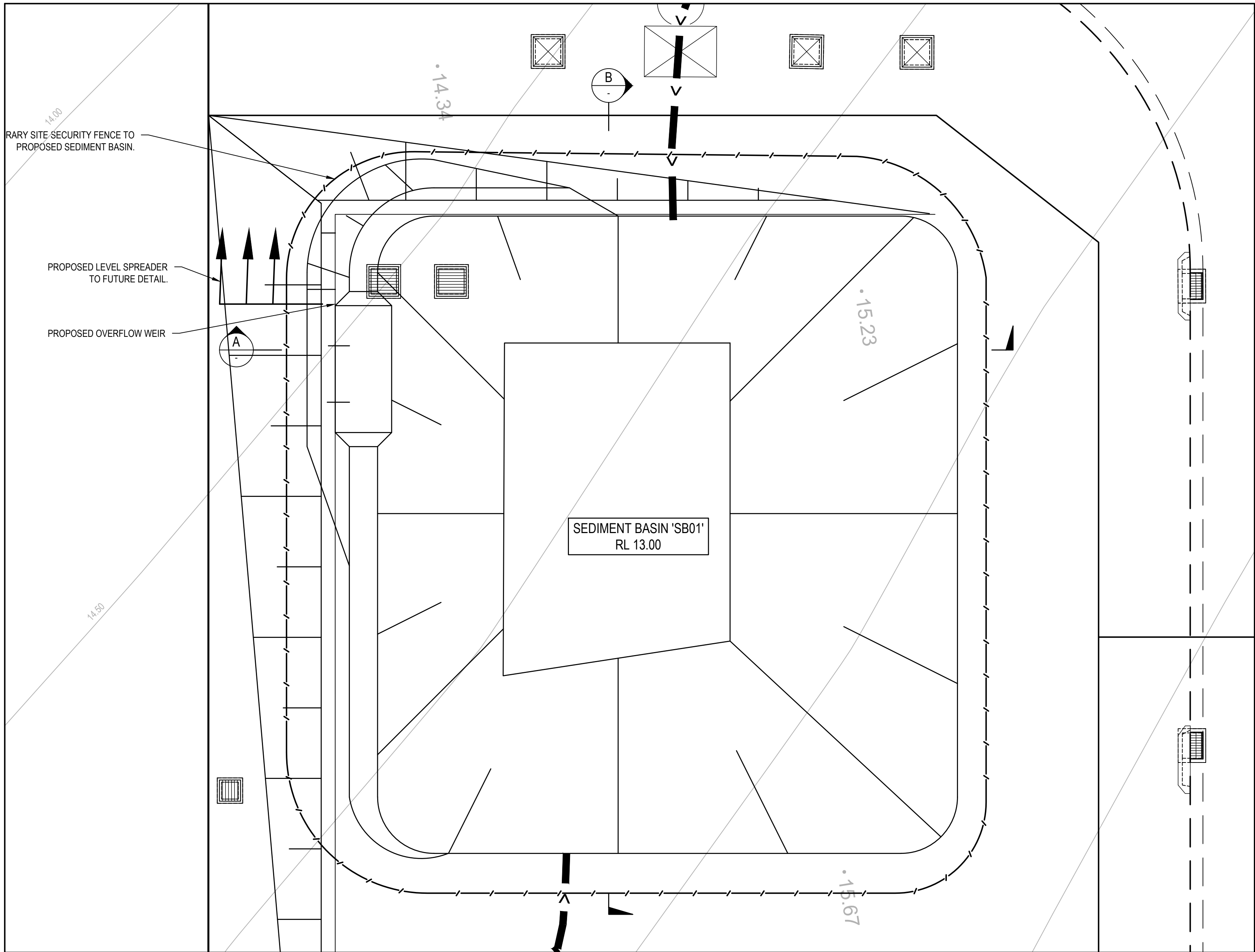
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
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4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC



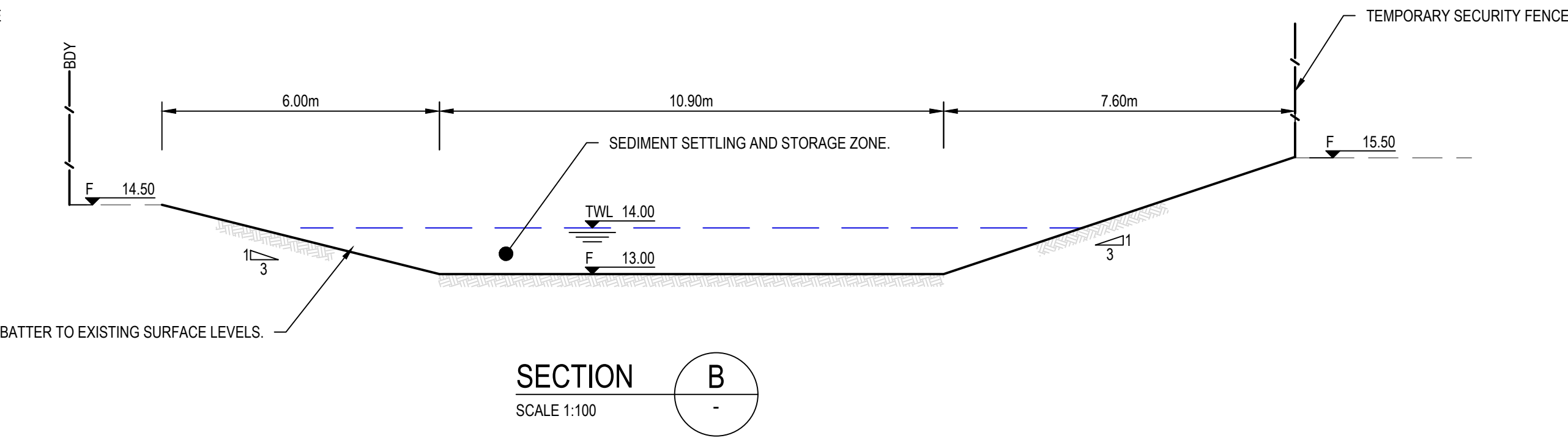
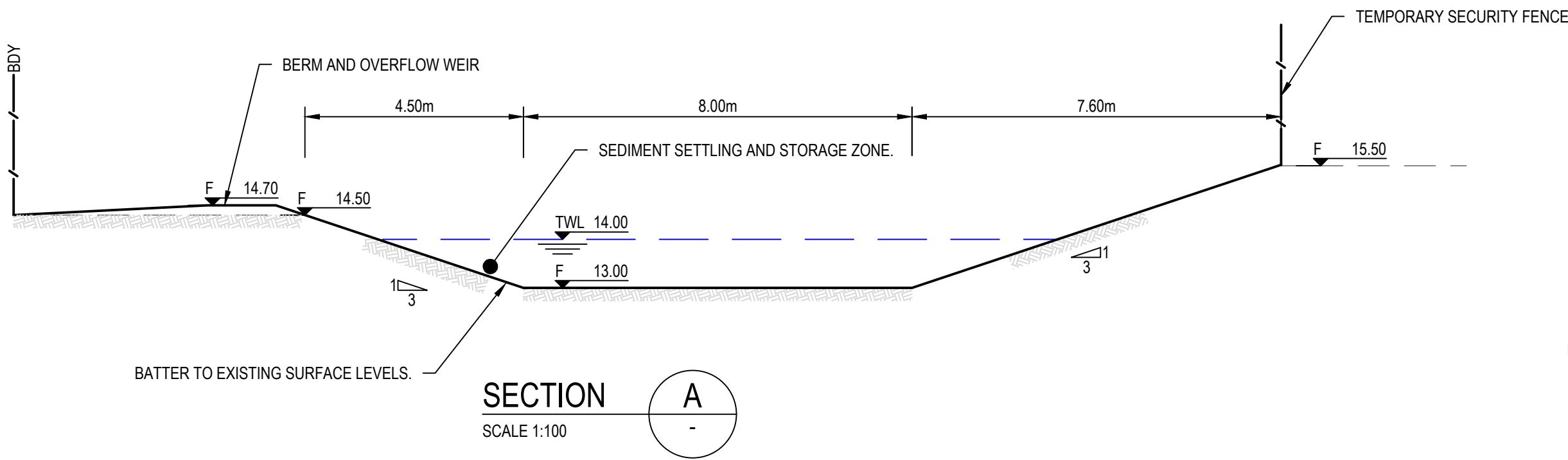
Scale	North
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Project	Scale	Status
86-92 OLD BAR ROAD, OLD BAR NSW 2430 DEVELOPMENT APPLICATION CIVIL ENGINEERING WORKS	AS SHOWN	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Title	Size	Project Number/Drawing Number
EROSION AND SEDIMENTATION CONTROL DETAILS	A1	210036-DA-C03.21
Datum	MGA94	Revision
		5



TEMPORARY SEDIMENT BASIN 'SB01'
SCALE 1:100



1. Erosion Hazard and Sediment Basins

Site Name: 2004 Noroy Place, Old Bar

Site Location: 2040 Noroy Place, Old Bar

Precinct/Stage: Subdivision

Other Details:

Site area	Sub-catchment or Name of Structure				Notes
Total catchment area (ha)	SB01	SB02			
Disturbed catchment area (ha)	2.71	0.52			

Soil analysis (enter sediment type if known, or laboratory particle size data)					
Sediment Type (C, F or D) (if known)	D	D			From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)	40	40			Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% silt (fraction 0.002 to 0.02 mm)	30	30			
% clay (fraction finer than 0.002 mm)	30	30			
Dispersion percentage	10.0	10.0			E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	4.5	4.5			See Section 6.3.3(e). Auto-calculated
Soil Texture Group	D	D			Automatic calculation from above

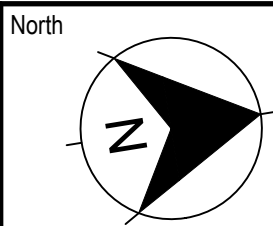
Rainfall data					
Design rainfall depth (no of days)	2	2			See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25.
Design rainfall depth (percentile)	80	80			
x-day, y-percentile rainfall event (mm)	22.9	22.9			
Rainfall R-factor (if known)					Only need to enter one or the other here
IFD: 2-year, 6-hour storm (if known)	11.2	11.2			

RUSLE Factors					
Rainfall erosivity (R-factor)	2720	2720			Auto-filled from above
Soil erodibility (K-factor)	0.032	0.032			RUSLE LS factor calculated for a high interrill ratio.
Slope length (m)	230	100			
Slope gradient (%)	5	3			
Length/gradient (LS-factor)	2.17	0.72			
Erosion control practice (P-factor)	1.3	1.3	1.3	1.3	
Ground cover (C-factor)	1	1	1	1	1

Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)					
Storage (soil) zone design (no of months)	2	2			Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.5	0.5			See Table F2, page F-4 in Appendix F

Calculations and Type D/F Sediment Basin Volumes					
Soil loss (t/ha/yr)	246	82			See Table 4.2, page 4-13
Soil Loss Class	3	1			
Soil loss (m ³ /ha/yr)	169	63			Conversion to cubic metres
Sediment basin storage (soil) volume (m ³)	85	5			See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m ³)	310	60			See Sections 6.3.4(i) for calculations
Sediment basin total volume (m ³)	395	65			

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC

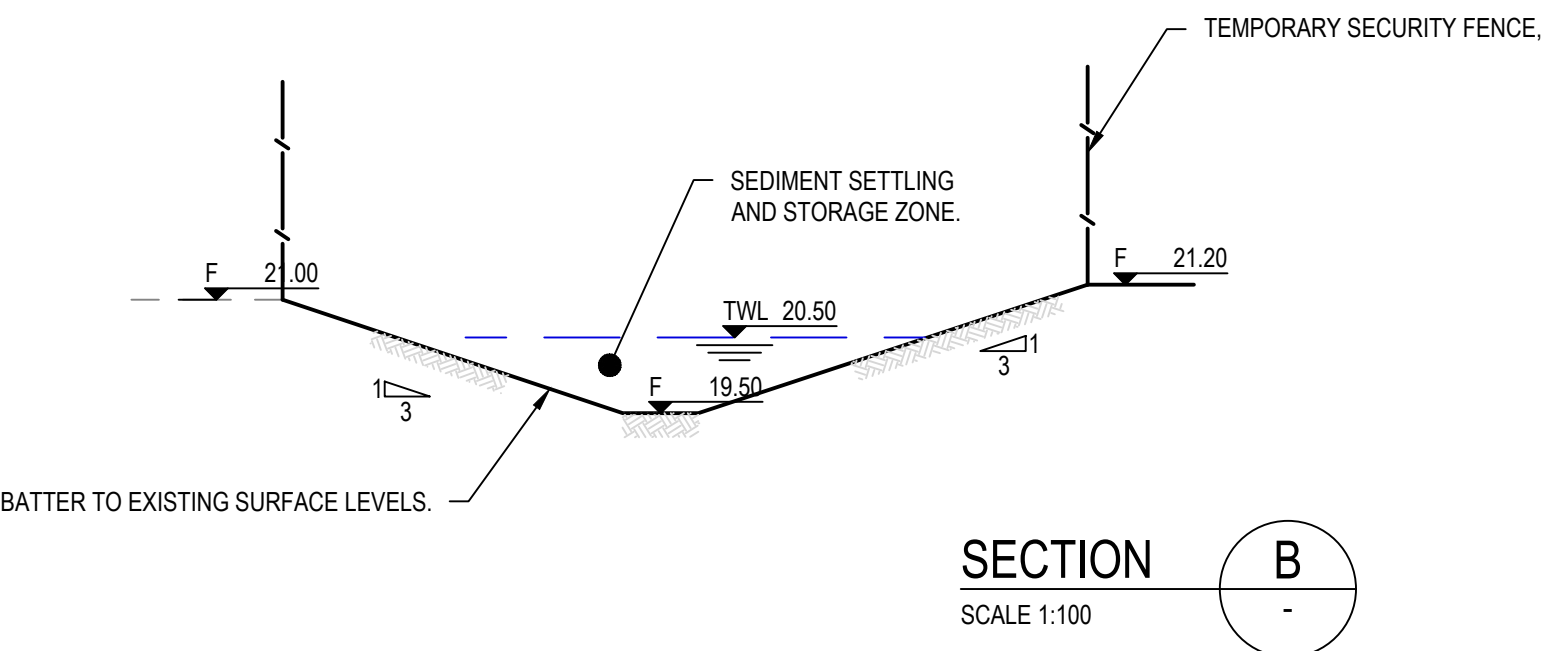


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Project
86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS
Title
SEDIMENT BASIN PLAN AND DETAILS
SHEET 01

Scale
AS SHOWN
Date
28/03/2022
Size
A1
Datum
MGA94

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
Project Number/Drawing Number
210036-DA-C03.31
Revision
5



1. Erosion Hazard and Sediment Basins

Site Name: 2004 Noroy Place, Old Ba

Site Location: 2040 Noroy Place, Old Ba

Precinct/Stage: Subdivision

Site area	Sub-catchment or Name of Structure						Notes
	SB01	SB02					
Total catchment area (ha)	2.71	0.52					
Disturbed catchment area (ha)	2.71	0.52					

Soil analysis (enter sediment type if known, or laboratory particle size data)

Sediment Type (C, F or D) if known:	D	D	From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)	40	40	
% silt (fraction 0.002 to 0.02 mm)	30	30	Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% clay (fraction finer than 0.002 mm)	30	30	
Dispersion percentage	10.0	10.0	E.g. enter 10 for dispersion of 10%
% of whole soil dispersible	4.5	4.5	See Section 6.3.3 (e). Auto-calculated
Soil Texture Group	D	D	Automatic calculation from above

Rainfall data

Design rainfall depth (no of days)	2	2			See Section 6.3.4 and, particularly, Table 6.3 on pages 6-24 and 6-25.
Design rainfall depth (percentile)	80	80			
1-day, y-percentile rainfall event (mm)	22.9	22.9			Only need to enter one or the other here
Rainfall R-factor (if known)					
FD: 2-year, 6-hour storm (if known)	11.2	11.2			

RUSLE Factors

[illegible]

Sediment Basin Design Criteria (for Type D/F basins only. Leave blank for Type C basins)

Storage (soil) zone design (no of months)	2	2				Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.5	0.5				See Table F2, page F-4 in Appendix F

Calculations and Type D/F Sediment Basin Volumes

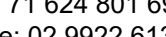
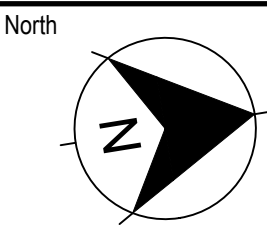
Soil loss (t/ha/yr)	246	82				
Soil Loss Class	3	1				See Table 4.2, page 4-13
Soil loss (m ³ /ha/yr)	189	63				Conversion to cubic metres
Sediment basin storage (soil) volume (m ³)	85	5				See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m ³)	310	60				See Sections 6.3.4(i) for calculations
Sediment basin total volume (m ³)	395	65				

[illegible]

Scale

0 1 2 4 6 8 10m

SCALE 1:100 @A1



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Project
86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS
Title
SEDIMENT BASIN PLAN AND DETAILS
SHEET 02

Scale AS SHOWN	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
Date 28/03/2022		
Size A1	Project Number/Drawing Number 210036-DA-C03.32	Revision 5
Datum MGA94		



CUT AND FILL LEGEND	
	2.0m TO 3.0m CUT
	1.0m TO 2.0m CUT
	0.0m TO 1.0m CUT
	0.0m TO 1.0m FILL
	1.0m TO 2.0m FILL
	2.0m TO 3.0m FILL

CUT AND FILL VOLUMES	
1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL/RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.	
2. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.	
3. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS, ie SERVICE TRENCHING, DETAILED EXCAVATION AND THE LIKE.	
4. APPROXIMATE VOLUMES REPRESENT VARIANCE BETWEEN FINISHED DESIGN SURFACE AND THE EXISTING SURFACE.	
5. NO ALLOWANCE FOR BOXING OF ROAD PAVEMENTS.	
6. NO ALLOWANCE FOR TOPSOIL STRIPPING.	
7. APPROXIMATE CUT & FILL VALUES AS FOLLOWS:	
CUT	6.975m³
FILL	4.027m³
BALANCE	2.948m³ (EXPORT)

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	MC
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
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2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC

Client

Scale

SCALE 1:500

North

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Project

86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS

Title

BULK EARTHWORKS CUT AND FILL PLAN

Scale

1:500

Date

28/03/2022

Size

A1

Datum

MGA94

Status

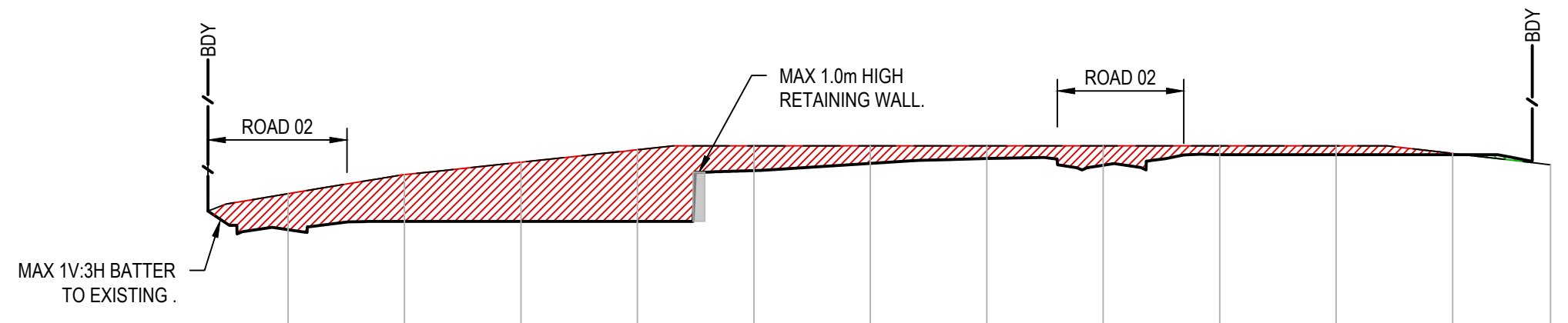
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number

210036-DA-C04.01

Revision

6

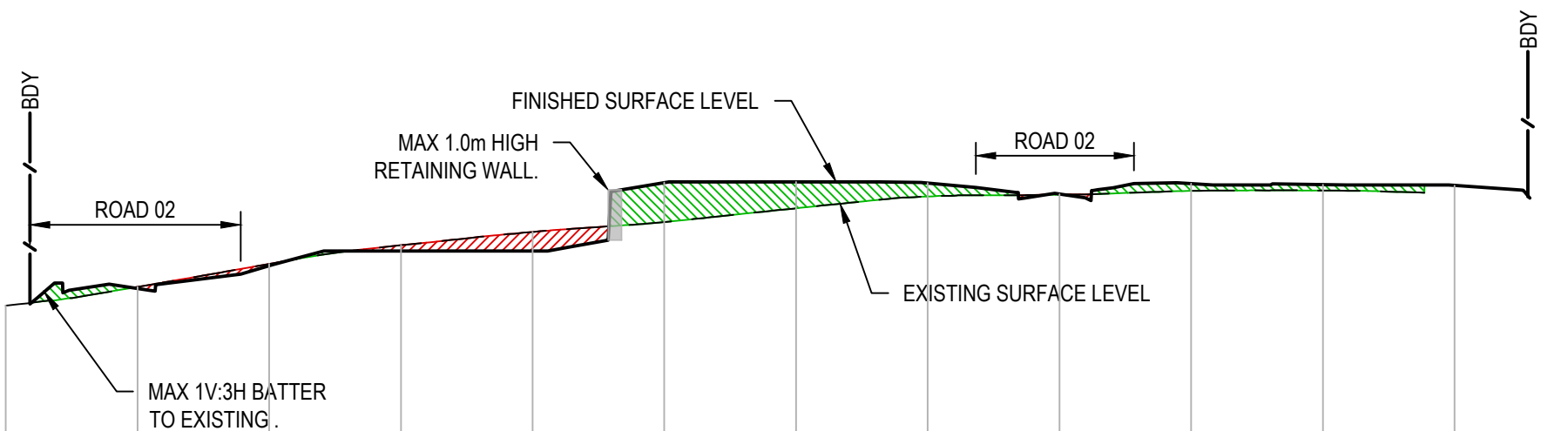


DATUM RL 14.0

DESIGN SURFACE														
		20.96		20.70		20.70		20.70		21.57		21.70		21.78
EXISTING SURFACE														
		21.18		21.50		21.72		21.93		22.00		22.00		22.00
CHAINAGE														
	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	118.41	

SECTION
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

A
C04.01



DATUM RL 11.0

DESIGN SURFACE														
		17.43		17.78		18.00		18.00		19.04		19.05		19.03
EXISTING SURFACE														
	17.17	17.45	17.80	18.09	18.29	18.44	18.65	18.83	18.85	18.91	18.92	19.01	18.99	
CHAINAGE														
	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	117.04	

SECTION
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

B
C04.01

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	MC
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC



Scale

01246810m

SCALE 1:100 @A1

01020304050m

SCALE 1:500 @A1

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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

Project	86-92 OLD BAR ROAD, OLD BAR NSW 2430	Scale	AS SHOWN	Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
	DEVELOPMENT APPLICATION	Date	28/03/2022			
	CIVIL ENGINEERING WORKS	Size	A1	Project Number/Drawing Number	210036-DA-C04.21	
Title	BULK EARTHWORKS CUT AND FILL SECTIONS	Datum	MGA94	Revision		
	SHEET 01					6



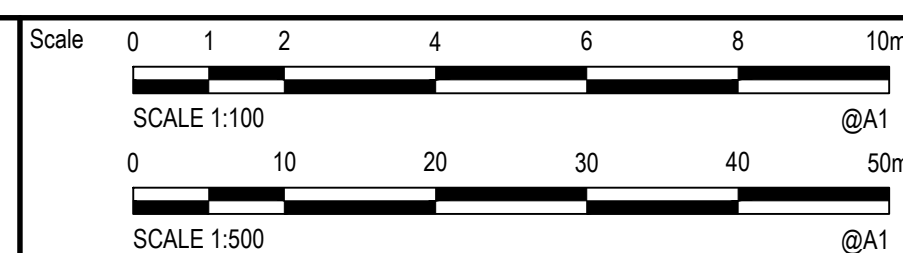
SECTION

C
C04.01

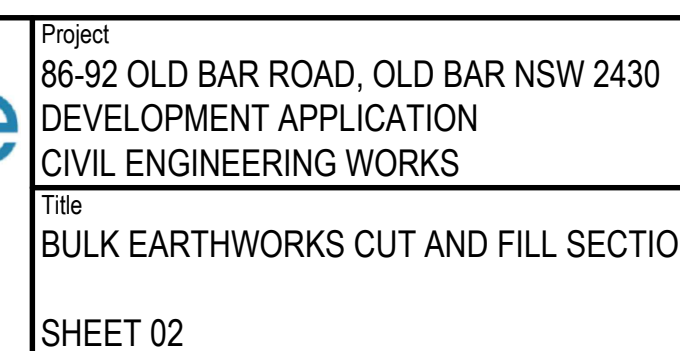
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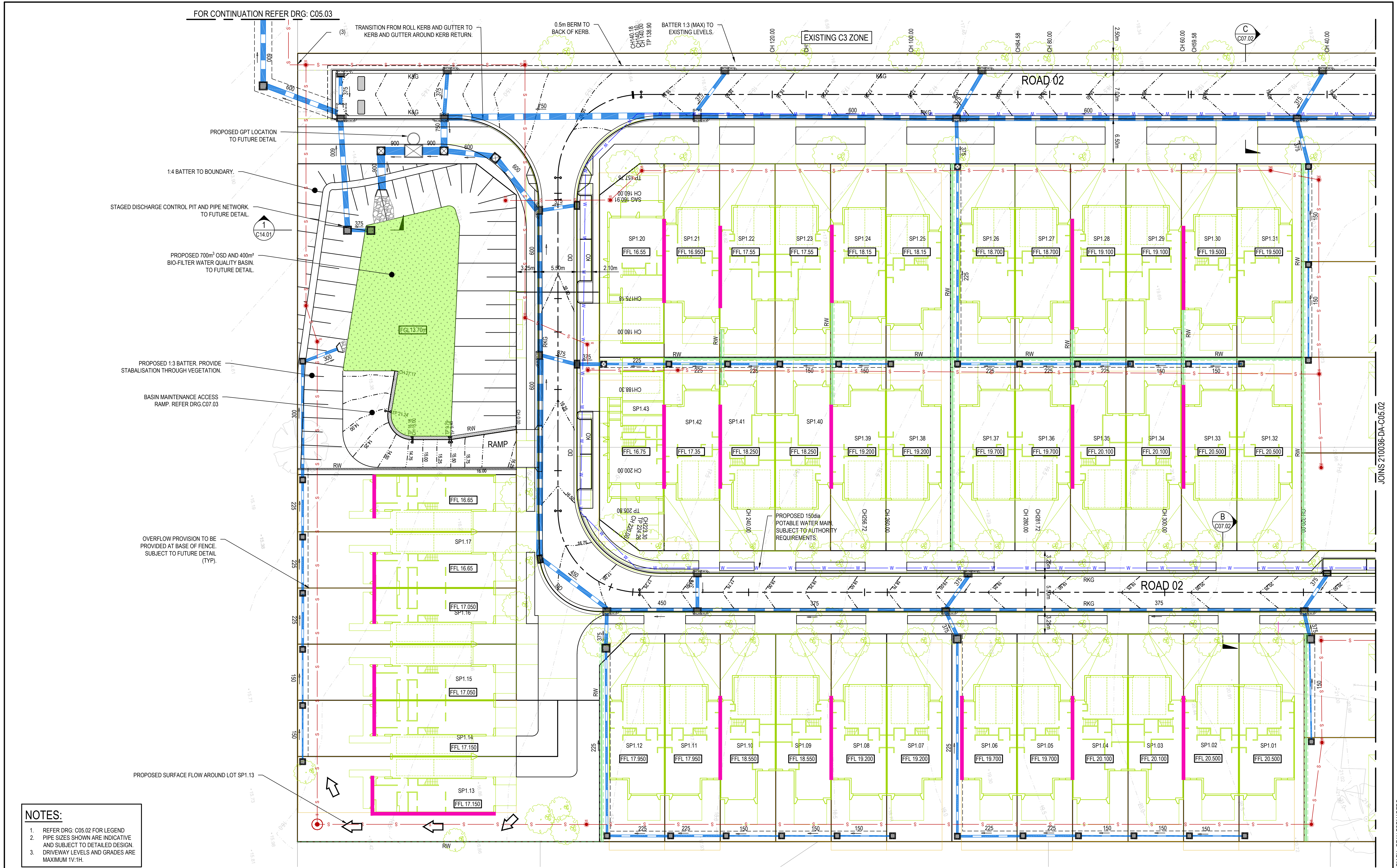
Client



North



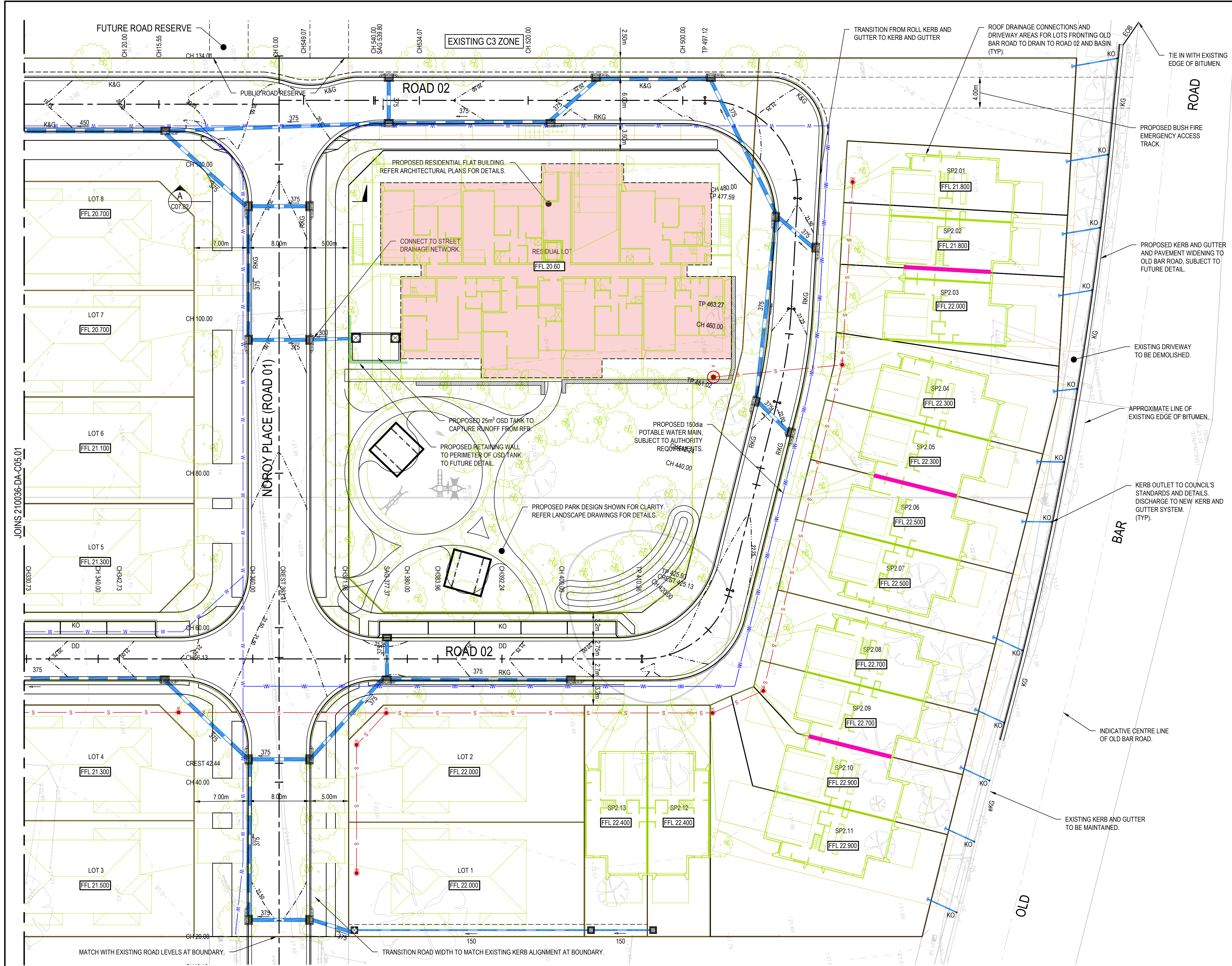
CAD File: \\ensdc01.enspiresolutions.local\Projects\210036 2040NoroyPID-Civil\00-SiteWide\Drawings\6-DACC\210036-DA-C04.21-C04.22 BULK EARTHWORKS - CUT AND FILL SECTIONS.dwg



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	MC
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC



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LEGEND

100.00

K&G

DD

RW

375

8/1

S

W

(W)

(W)

KO

SITE BOUNDARY

CONTOUR

BATTER

KERB AND GUTTER
IN ACCORDANCE WITH MID-COAST COUNCIL STANDARDS AND DETAILS

DISH DRAIN
IN ACCORDANCE WITH MID-COAST COUNCIL STANDARDS AND DETAILS

RETAINING WALL TO FUTURE DETAIL

RETAINING WALL TO FUTURE DETAIL

DROP EDGE BEAM TO FUTURE DETAIL

PIPE SIZE
STORMWATER DRAINAGE LINE
FLOW DIRECTION

STORMWATER LINE/PIT NUMBER

KERB INLET PIT
IN ACCORDANCE WITH MID-COAST COUNCIL STANDARDS AND DETAILS

SURFACE INLET PIT/JUNCTION PIT
IN ACCORDANCE WITH MID-COAST COUNCIL STANDARDS AND DETAILS

DRAINAGE EASEMENT

STREET TREE
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAIL

PROPOSED SEWER

PROPOSED POTABLE WATER

EASEMENT TO DRAIN WATER 7m WIDE

EASEMENT TO DRAIN WATER 7m WIDE

KERB OUTLET
IN ACCORDANCE WITH MID-COAST COUNCIL STANDARDS AND DETAILS

DESIGN SUMMARY:

LGA = MID-COAST COUNCIL

SITE AREA = 3.23 ha

THE STORMWATER MANAGEMENT PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH GREAT LAKES DEVELOPMENT CONTROL PLAN DCP 2013.

WATER QUANTITY:

ON-SITE DETENTION PROVIDED FOR SUBJECT SITE.

CATCHMENT C1 DRAINS TO BIO-RETENTION BASIN. $C_p=2.90$ Ha

CATCHMENT C2 DRAINS TO OSD TANK WITHIN RFB. $C_p=0.11$ Ha

CATCHMENT C3 DRAINS TO OLD BAR ROAD. $C_p=0.129$ Ha

CATCHMENT C4 BYPASS OSD AND WATER QUALITY. $C_p=0.097$ Ha

PRIE TO POST FLOW ASSESSMENT HAS BEEN CONDUCTED USING DRAINS. RESULTS ARE PROVIDED BELOW:

WATER QUANTITY RESULTS		
AEP	PRE (m³/s)	POST (m³/s)
50%	0.44	0.29
20%	0.81	0.62
10%	0.99	0.73
5%	1.52	0.82
1%	1.76	0.89

OSD BASIN VOLUME REQUIRED = 700m³

OSD TANK VOLUME REQUIRED = 25m³

WATER QUALITY:

WATER QUALITY TREATMENT IS PROVIDED UTILISING THE FOLLOWING:

GROSS POLLUTANT TRAP

BIO-RETENTION FILTER MEDIA WITHIN PROPOSED BIO-BASIN

3kL RAINWATER TANKS FOR EACH LOT

WATER QUALITY ASSESSMENT HAS BEEN CONDUCTED USING MUSIC SOFTWARE.

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
7	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	MC
6	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
5	13/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC



Scale

0

5

10

15

20

25m

SCALE 1:250

@A1

North

N

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ABN: 71 624 801 690
Phone: 02 9922 6135

Project

86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS

Title

SITWORKS AND STORMWATER MANAGEMENT PLAN

Datum

SHEET 02

Scale

1:250

Date

28/03/2022

Size

A1

MGA94

Status

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number

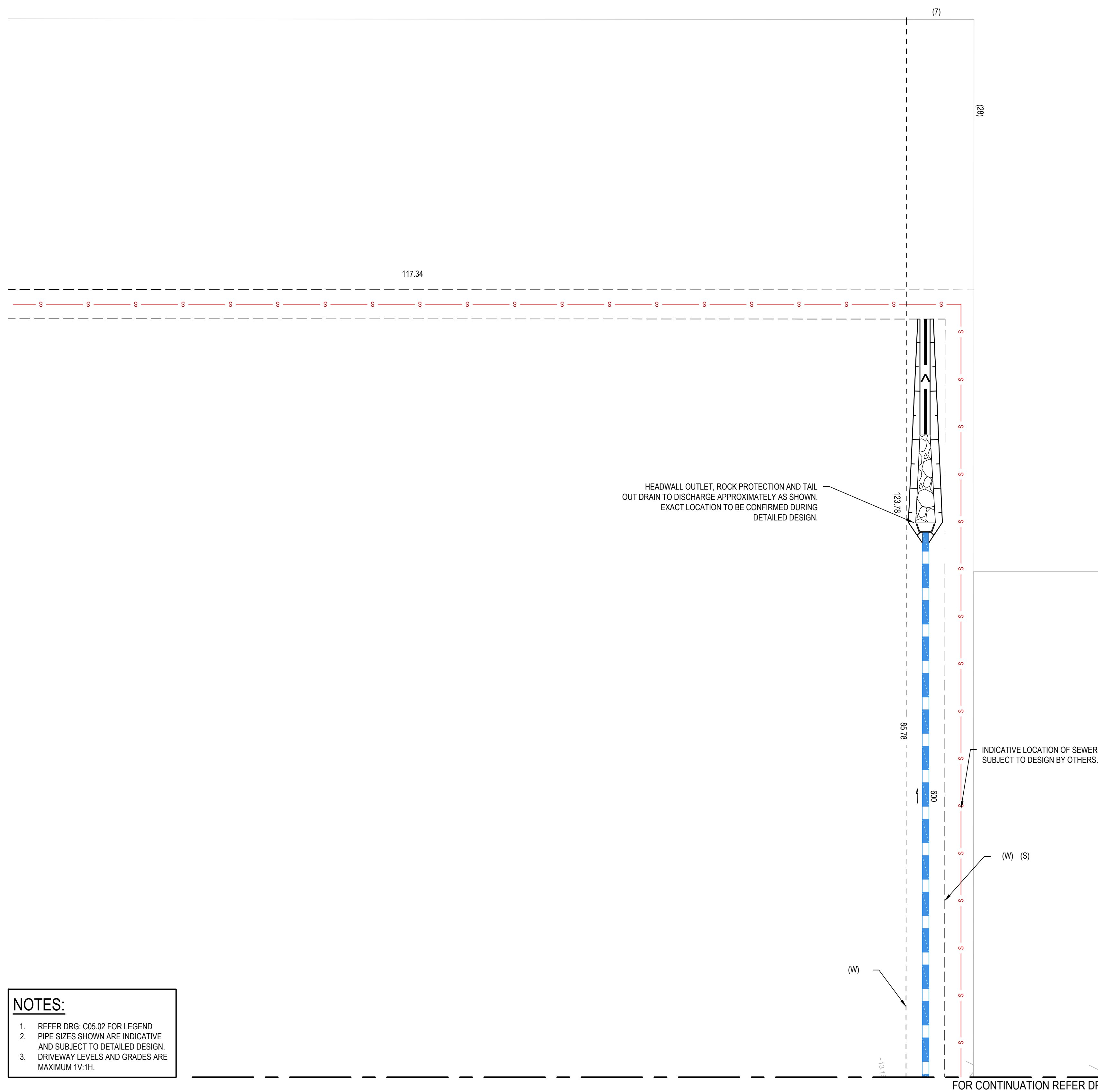
210036-DA-C05.02

Revision

7

CAD File: \\ensd001.enspiresolutions.local\Projects\210036 2040\Norroy\PID-Civil\00-Site\Drawings\6-DAC\210036-DA-C05.01-C05.03 SITWORKS AND STORMWATER MANAGEMENT PLAN.dwg

DATE PLOTTED: 29 September 2023 2:35 PM BY: DEAN FORAMADERO

[illegible]

Scale

0 5 10 15 20 25m

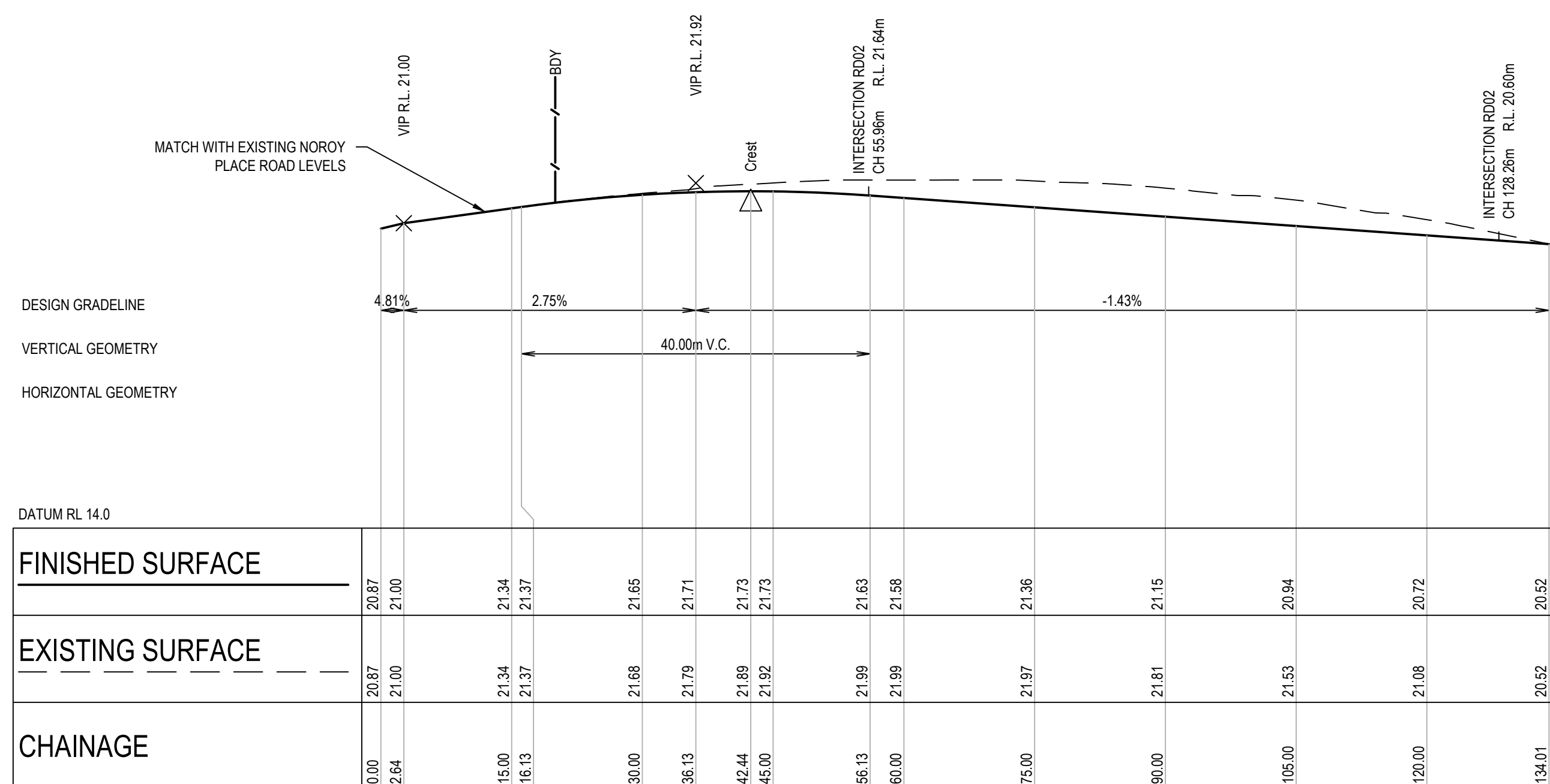
SCALE 1:250 @A1

North

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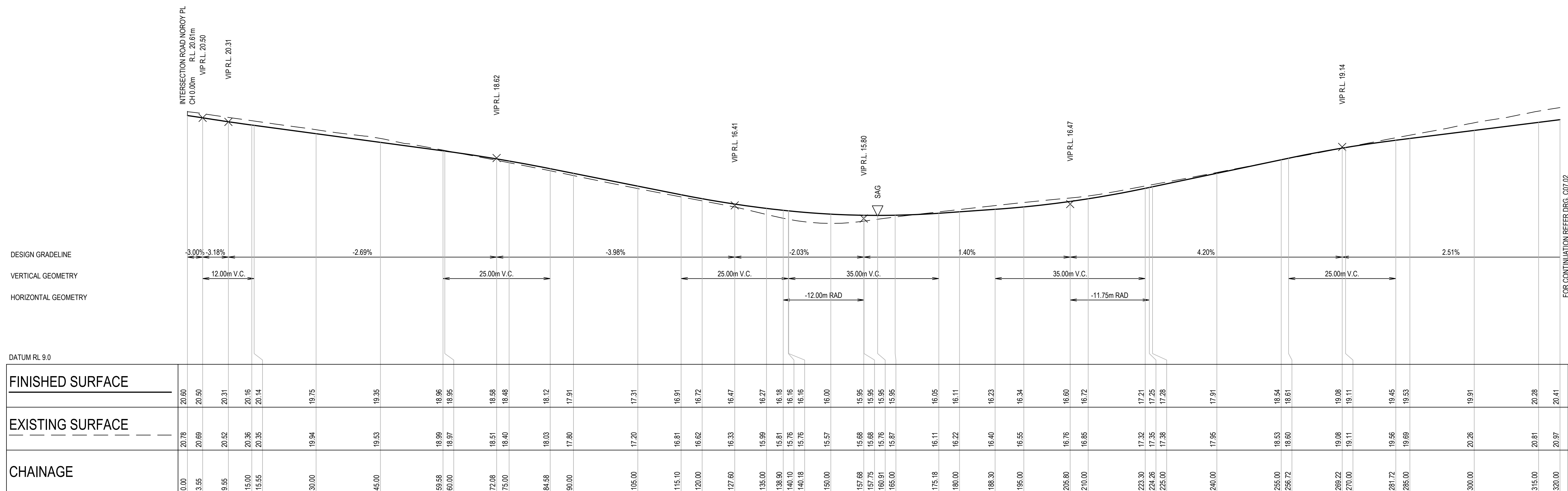
Project	Scale	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
86-92 OLD BAR ROAD, OLD BAR NSW 2430 DEVELOPMENT APPLICATION CIVIL ENGINEERING WORKS	1:250		
	Date 28/03/2022		
Title	Size	Project Number/Drawing Number	Revision
SITeworks AND STORMwater MANAGEMENT PLAN	A1	210036-DA-C05.03	1
SHEET 03	Datum MGA94		

FOR CONTINUATION REFER DRG: C05.03



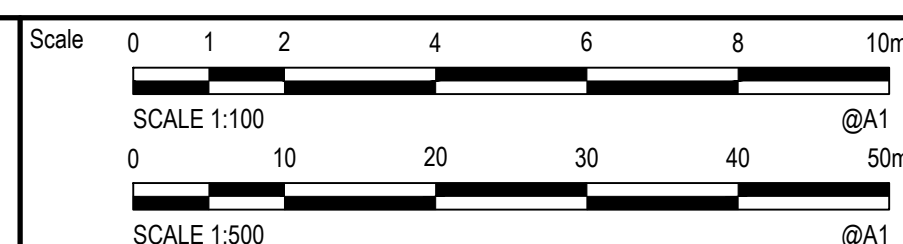
ROAD 01 NOROY PL LONGITUDINAL SECTION

SCALE 1:500 HORI
SCALE 1:100 VERT



ROAD 02 LONGITUDINAL SECTION

SCALE 1:500 HORIZONTAL
SCALE 1:100 VERTICAL

[illegible]

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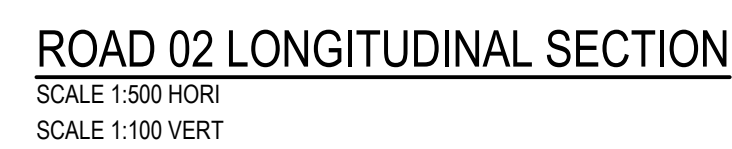
Project	86-92 OLD BAR ROAD, OLD BAR NSW 2430 DEVELOPMENT APPLICATION CIVIL ENGINEERING WORKS
Title	ROAD LONGITUDINAL SECTIONS ROAD TYPICAL CROSS SECTIONS SHEET 01

Scale	AS SHOWN
Date	28/03/2022
Size	A1
Datum	MGA94

N	Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
	5	

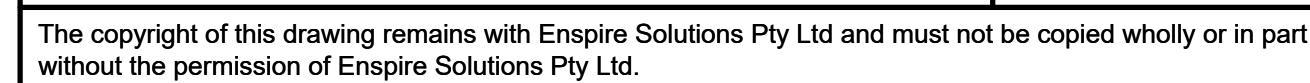
Project Number/Drawing Number	210036-DA-C07.01
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Revision	5
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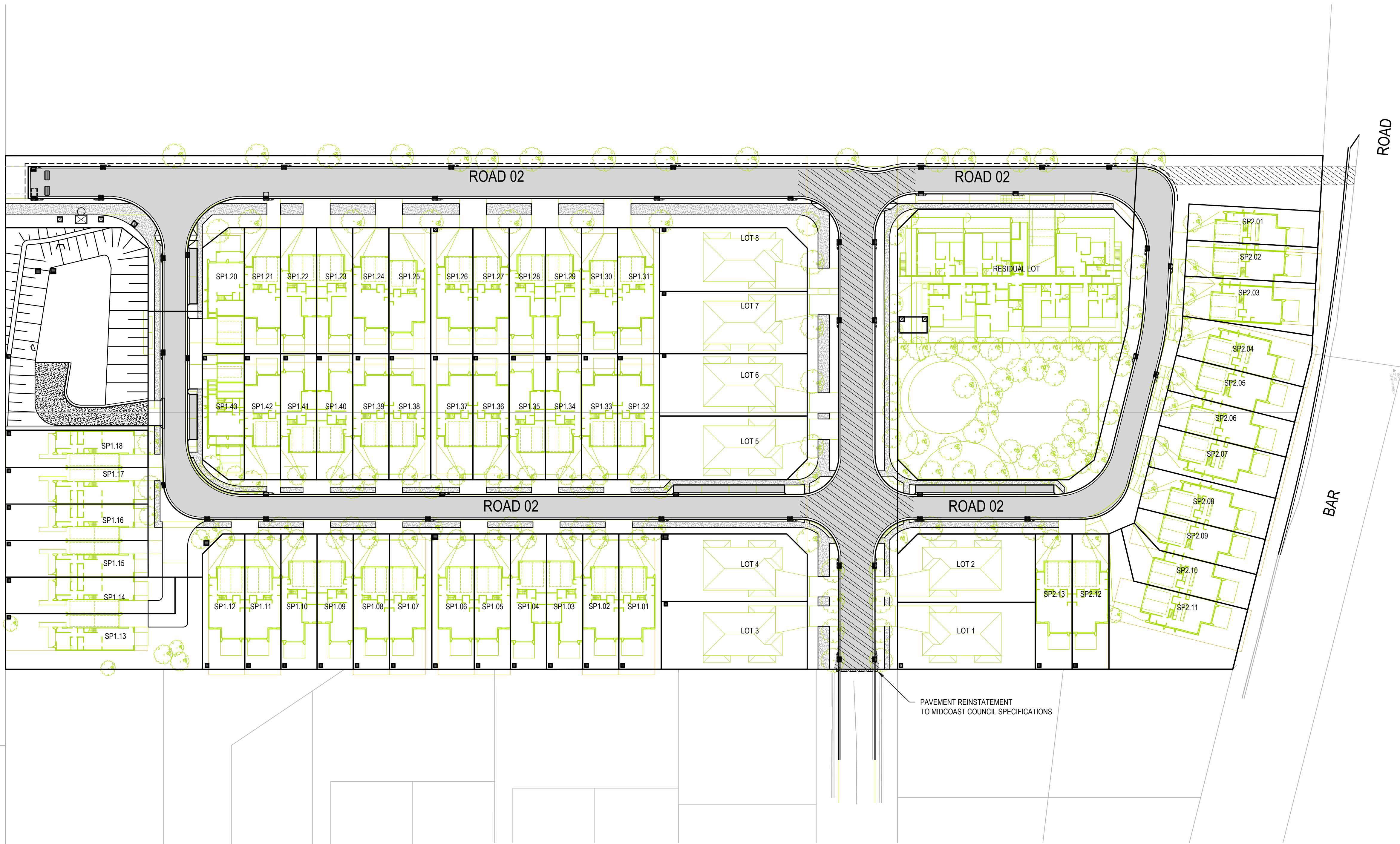


Client

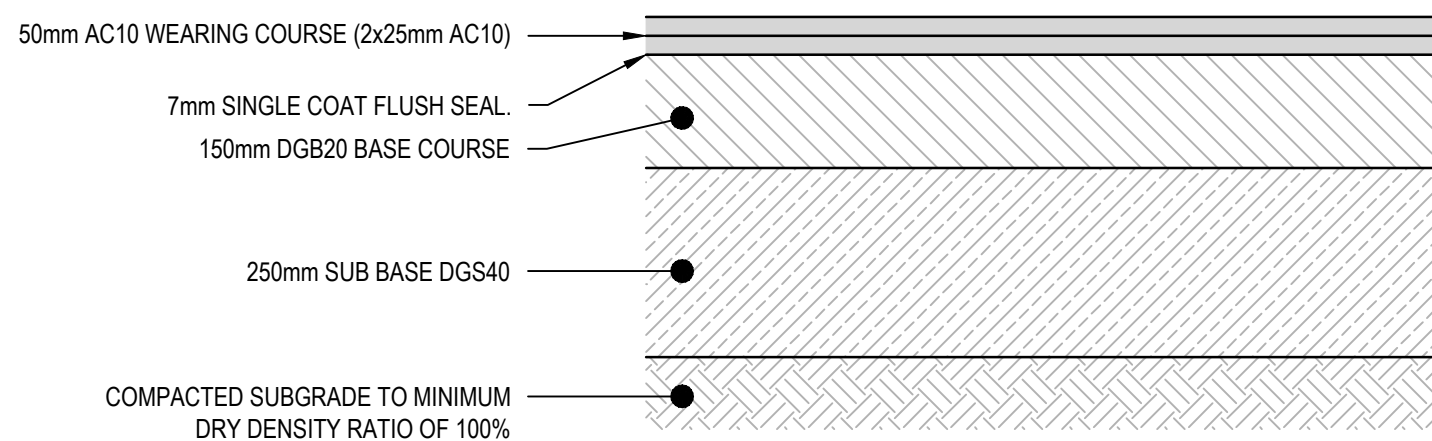
The logo for Mijolla International features the word "mijolla" in a white, lowercase, cursive script font, with the "i" and "j" having long, flowing tails. Below it, the word "INTERNATIONAL" is written in a white, uppercase, sans-serif font. The entire logo is set against a dark, solid rectangular background.



Project 86-92 OLD BAR ROAD, OLD BAR NSW 2430 DEVELOPMENT APPLICATION CIVIL ENGINEERING WORKS	Scale AS SHOWN Date 28/03/2022	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Title ROAD LONGITUDINAL SECTIONS ROAD TYPICAL CROSS SECTIONS SHEET 02	Size A1 Datum MGA94	Project Number/Drawing Number 210036-DA-C07.02 Revision 5



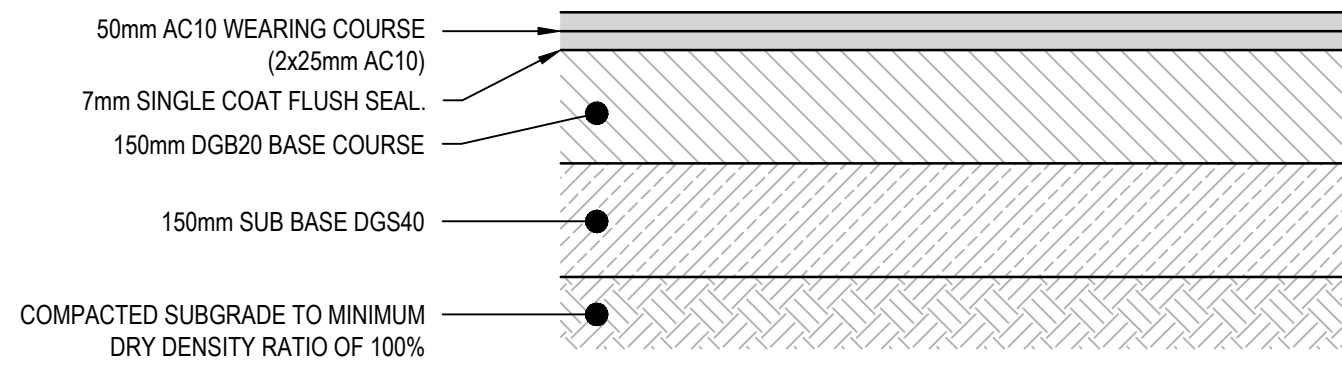
WYDEN STREET



PAVEMENT TYPE 1 - LOCAL ROAD

SCALE 1:10

- NOTES:
- DESIGN CBR: 4%
 - DESIGN ESA: 3 x 10⁵ ESA



PAVEMENT TYPE 2 - ACCESS STREET

SCALE 1:10

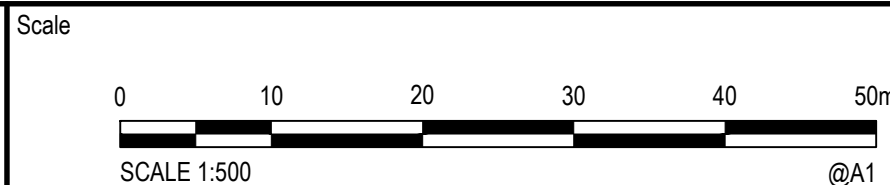
- NOTES:
- DESIGN CBR: 4%
 - DESIGN ESA: 6 x 10⁵ ESA

LEGEND

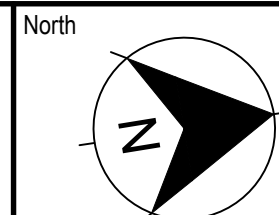
- | | |
|--|--|
| | PAVEMENT TYPE 1
LOCAL ROAD
REFER DETAIL |
| | PAVEMENT TYPE 2
ACCESS STREET
REFER DETAIL |
| | PAVEMENT TYPE 3
BASIN ACCESS RAMP
TO COUNCIL STANDARD |
| | PAVEMENT TYPE 4
BUSHFIRE ACCESS TRACK
UNSEALED PAVEMENT
TO FUTURE DETAILS. |
| | PAVEMENT TYPE 5
CONCRETE FOOTPATH
REFER MID COAST COUNCIL STANDARD
DRG. SD. 0103 FOR DETAILS. |
| | PAVEMENT REINSTATEMENT
REFER MID COAST COUNCIL STANDARD
DRG. SD. 0100 FOR DETAILS. |

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
7	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	AD
6	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
5	13/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC

Client



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ABN: 71 624 801 690
Phone: 02 9922 6135

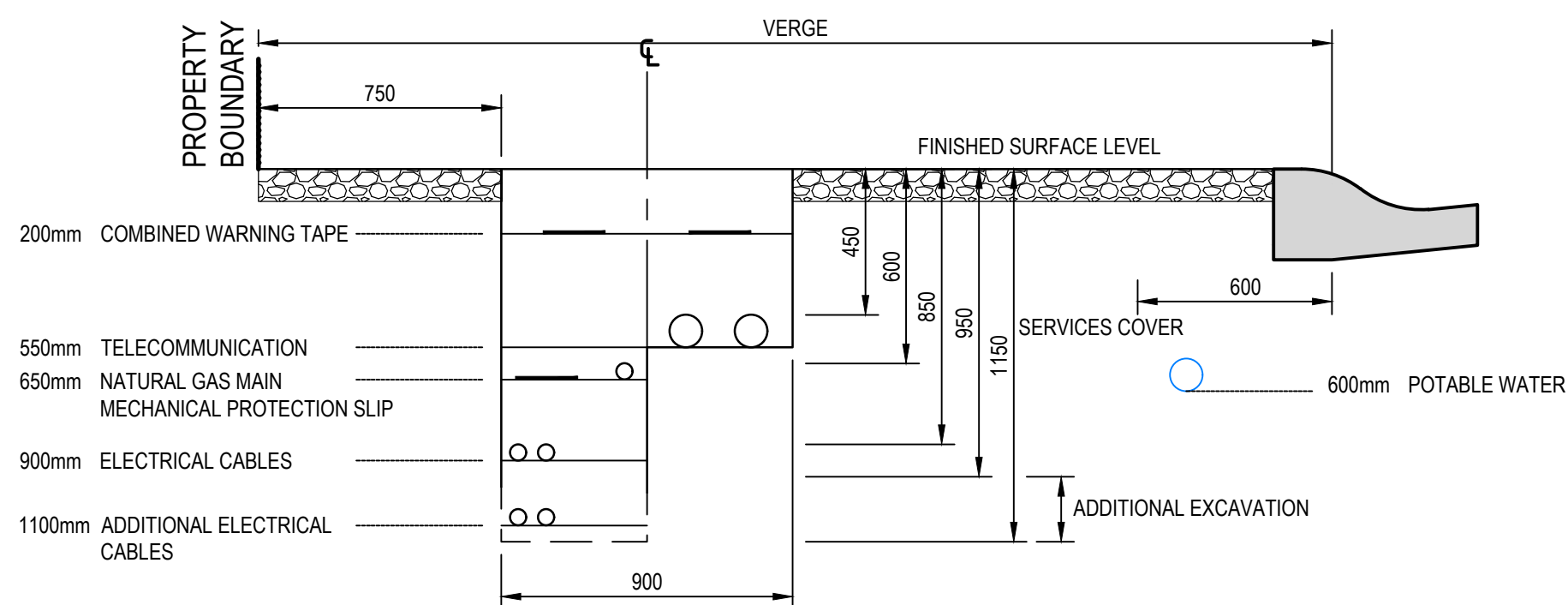
Project
86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS
Title
PAVEMENT, SIGNAGE AND LINEMARKING PLAN

Scale
1:500
Date
28/03/2022
Size
A1
Datum
MGA94

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
210036-DA-C11.01

Revision
7



1

SCALE 1:25

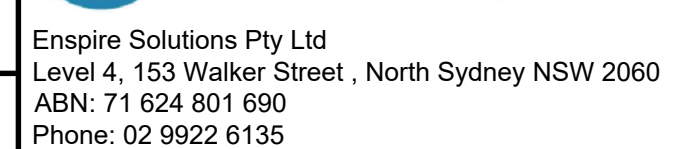
C05

2

SCALE 1:20



North



Title	SITEWORKS DETAIL
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Datum
MGA94

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

210036-DA-C14.01

3

[illegible]

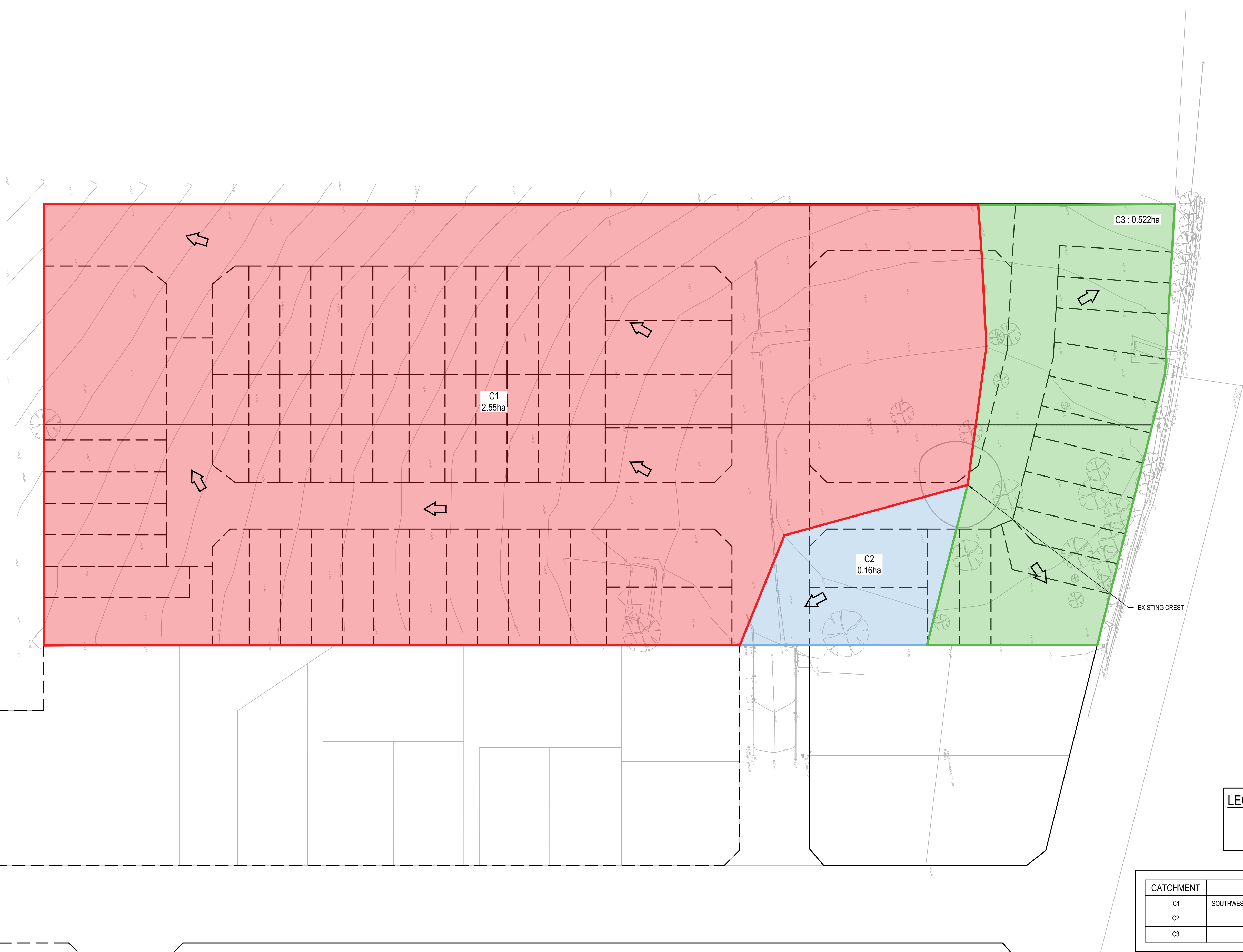
Client	
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CAD File: \\ensdc01.enspiresolutions.local\Projects\210036 2040NoroyPI\D-Civil\00-SiteWide\Drawings\6-DACC\210036-DA-C14.01 SITEWORKS DETAILS.dwg

DATE PLOTTED: 29 September 2023 3:10 PM BY : MATT CONDOS



LEGEND

➡

OVERLAND FLOW DIRECTION

CATCHMENT	DRAINS TO
C1	SOUTHWESTERN CORNER/ NEIGHBOURING LOT.
C2	NOROY PLACE
C3	OLD BAR ROAD

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC

Client

Scale

01020304050m

SCALE 1:500 @A1

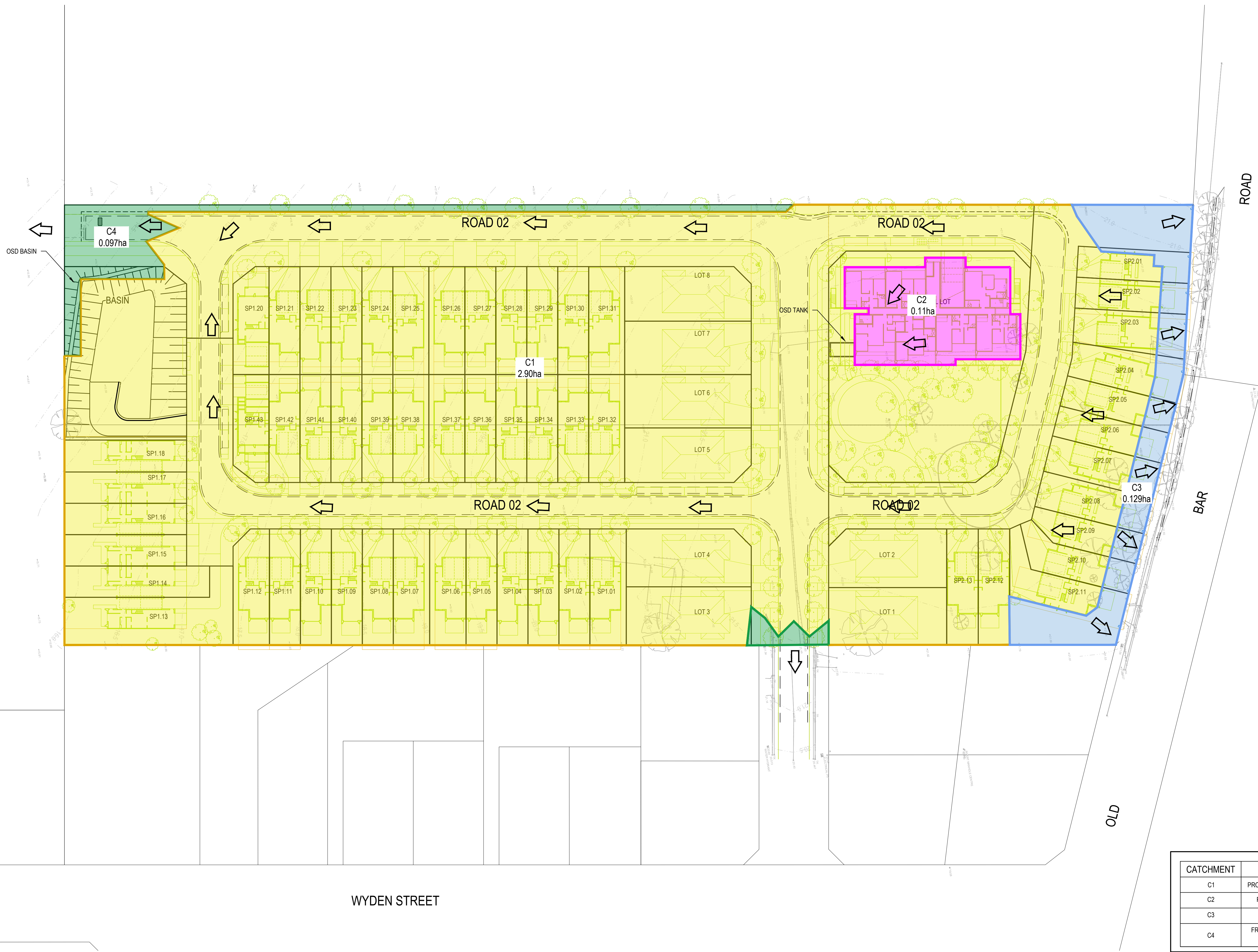
North

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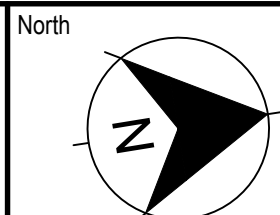
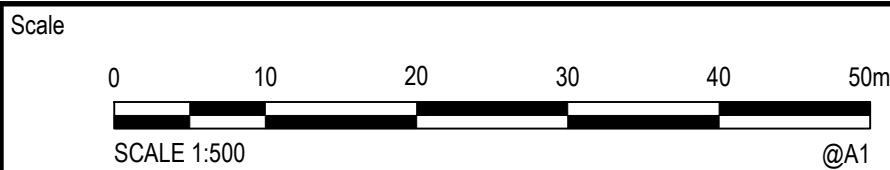
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street , North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project 86-92 OLD BAR ROAD, OLD BAR NSW 2430 DEVELOPMENT APPLICATION CIVIL ENGINEERING WORKS	Scale 1:500 Date 28/03/2022 Size A1 Datum MGA94	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project Number/Drawing Number 210036-DA-C20.01
---	--	--

Title PRE-DEVELOPMENT CATCHMENT PLAN	Revision 5
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REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	MC
5	13/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC



Project
86-92 OLD BAR ROAD, OLD BAR NSW 2430
DEVELOPMENT APPLICATION
CIVIL ENGINEERING WORKS

Title
POST-DEVELOPMENT CATCHMENT PLAN

Scale
1:500

Date
28/03/2022

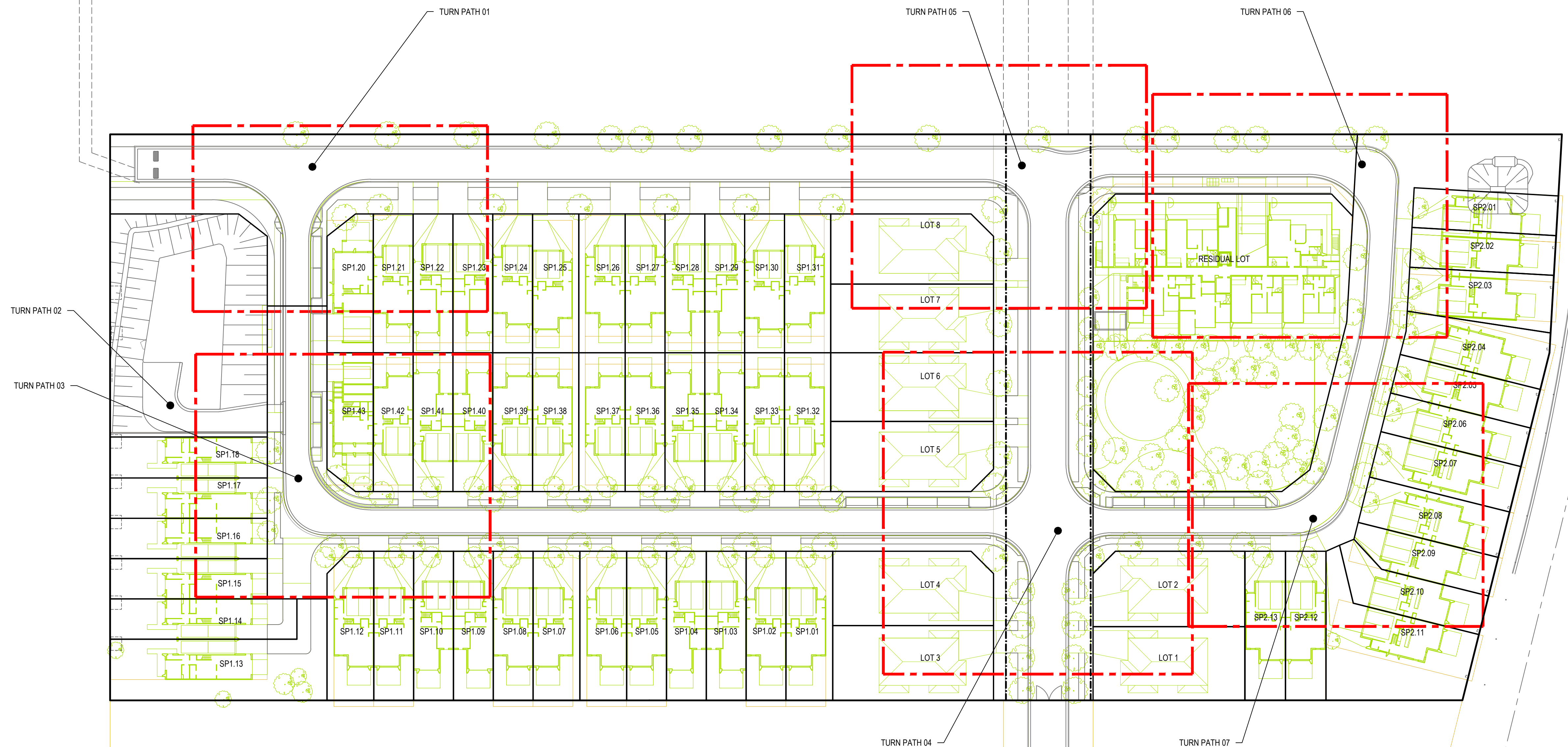
Size
A1

Datum
MGA94

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
210036-DA-C20.21

Revision
6



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD	AD
5	3/07/2023	ISSUED FOR DEVELOPMENT APPLICATION	SA	MC	MC	MC
4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC	MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	-	LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC	LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC	LC

Client						

Scale

01020304050m

SCALE 1:500

@A1

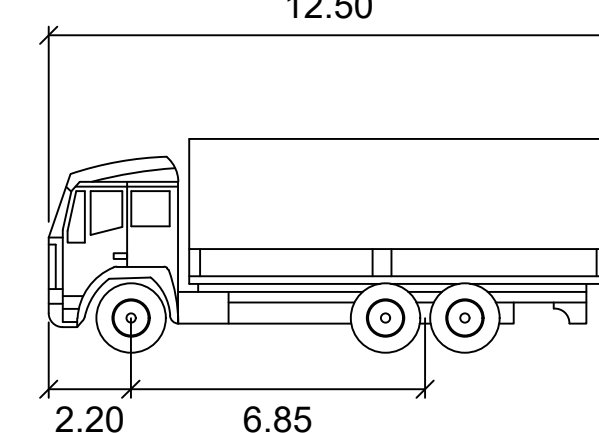
North

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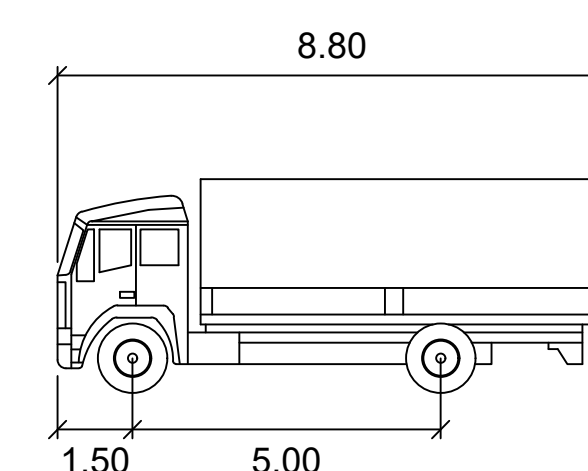
Enspire Solutions Pty Ltd
Level 4, 153 Walker Street, North Sydney NSW 2060
ABN: 71 624 801 690
Phone: 02 9922 6135

Project	86-92 OLD BAR ROAD, OLD BAR NSW 2430
Development Application	DEVELOPMENT APPLICATION
Civil Engineering Works	CIVIL ENGINEERING WORKS
Title	TURNING PATH PLAN
Scale	1:500
Date	28/03/2022
Size	A1
Datum	MGA94

Status	FOR APPROVAL	
	NOT TO BE USED FOR CONSTRUCTION	
Project Number/Drawing Number	210036-DA-C22.01	Revision
		6



	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.7



	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 34.0



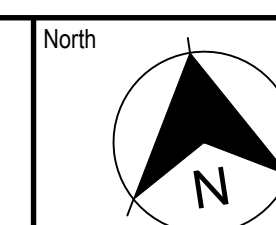
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6	29/09/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	TB	AD AD
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4	09/03/2023	ISSUED FOR DEVELOPMENT APPLICATION	DF	MC	MC MC
3	25/05/2022	ISSUED FOR DEVELOPMENT APPLICATION	TB	MC	- LC
2	27/04/2022	ISSUED FOR DEVELOPMENT APPLICATION	RM	JE	MC LC
1	28/03/2022	ISSUED FOR INFORMATION	TB	JE	MC LC
REV	DATE	DESCRIPTION	DRN	DES	VERIF APPR

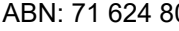
Scale

0 5 10 15 20 25m

SCALE 1:250 @A1

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Project	86-92 OLD BAR ROAD, OLD BAR NSW 2430 DEVELOPMENT APPLICATION CIVIL ENGINEERING WORKS
Title	TURNING PATH PLAN
SHEET 02	

Scale	1:250
Date	28/03/2022
Size	A1
Datum	MGA94

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
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Project Number/Drawing Number	210036-DA-C22.02
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Revision	6
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