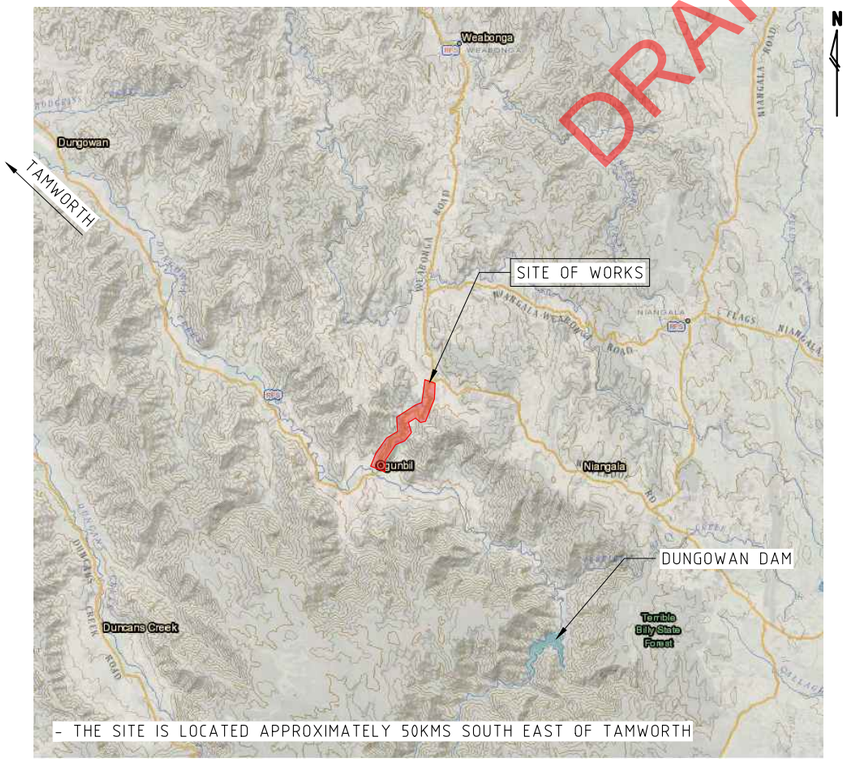
REGIONAL COUNCIL
Tamworth

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD
(PORT STEPHENS CUTTING)
50% DESIGN SUBMISSION - DRAFT



LOCALITY PLAN
NOT TO SCALE

LEGEND

EDGE OF BITUMEN	EB
GAS MAIN AND PIT	GAS
GATE, FENCE	
GUARD RAIL	
MAIL BOX	
OPTIC FIBRE (OPTUS)	OPTO
OPTIC FIBRE (AARNET)	OPTP
OPTIC FIBRE (TELSTRA)	OPTT
PROPERTY BOUNDARY	
OVERHEAD POWER HV	OHP
UNDERGROUND ELECTRICITY	UGE
POWER POLE	
LIGHT POLE	
SEWER MAIN (& SIZE)	SM 150
SEWER SERVICE CONNECTION	SM
SEWER MANHOLE	
STORMWATER (& SIZE)	SW 375
STORMWATER MANHOLE	
TELSTRA CABLES AND PIT	TC
INDICATIVE SERVICE NOT ABLE TO BE LOCATED	?? WM ??
SIGN	
TREE	
POTHOLE	
CONTROL POINT	
WATER MAIN (& SIZE)	WM 100
WATER SERVICE CONNECTION	W
PROPOSED WATER MAIN	WM 150
PROPOSED SEWER MAIN	SM 150
PROPOSED STORMWATER LINE	SW 450
PROPOSED DESIGN ALIGNMENT	
EXISTING RETAINING WALL	
LAND ACQUISITION EXTENTS	

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

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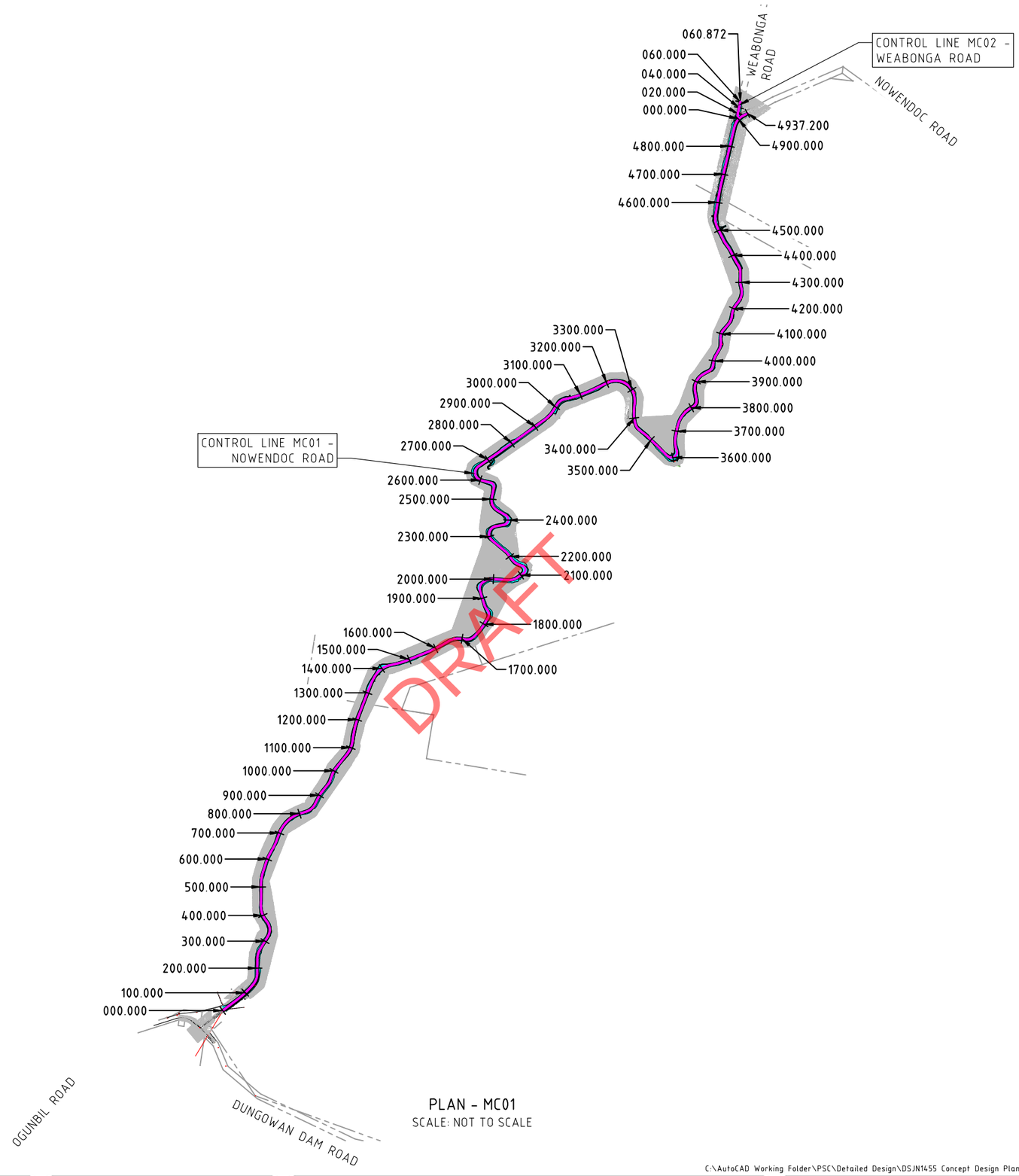
PREPARED BY REGIONAL SERVICES DIRECTORATE SURVEY & DESIGN

CLIENT APPROVAL
NAME
DIRECTORATE
SIGNATURE
DATE

ECM REF. 1155871
DRAWING NO. 1455-001



PLAN - MC01
SCALE: NOT TO SCALE

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

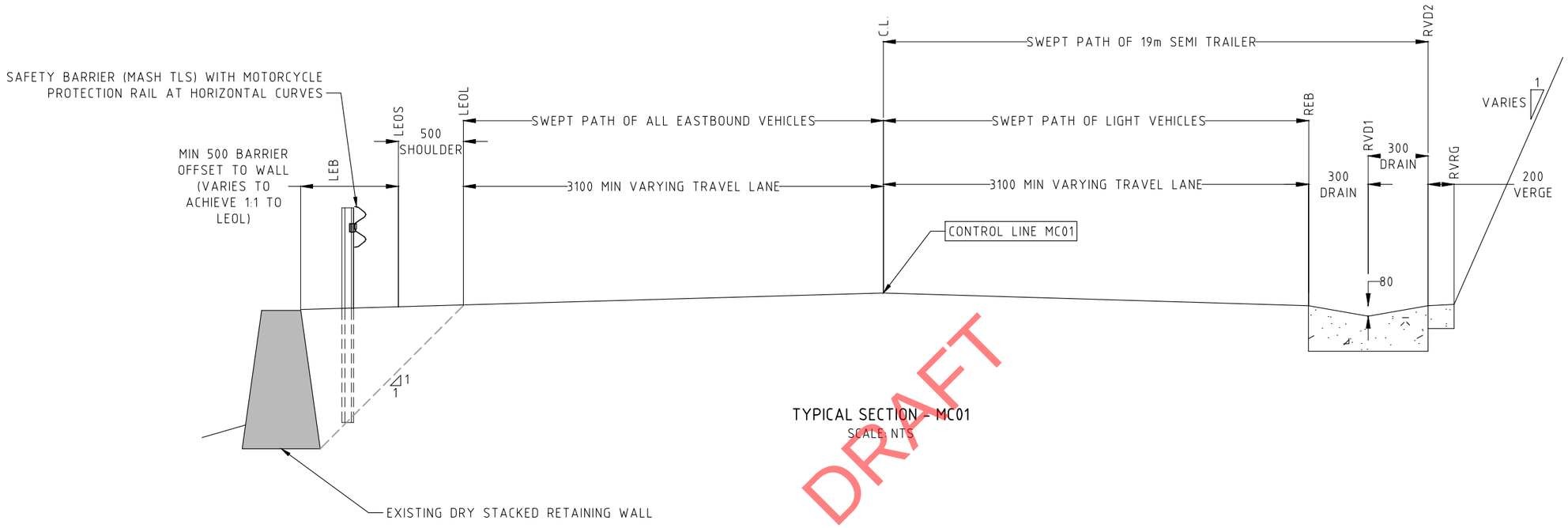
OVERALL ROUTE PLAN

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-004



TYPICAL SECTION - MC01
SCALE: NTS

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Plan.dwg

REV	DATE	DESCRIPTION
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C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

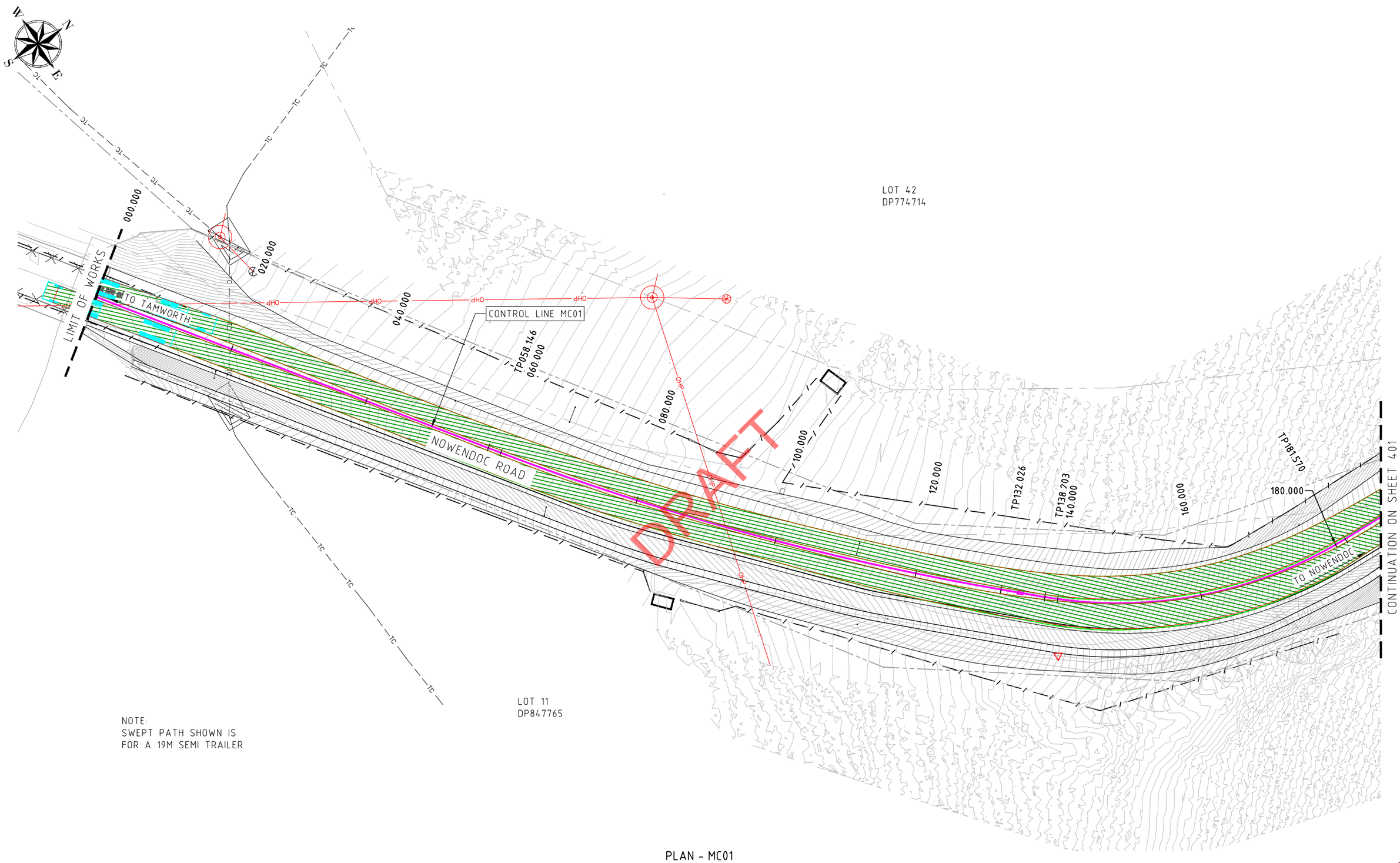
TYPICAL SECTIONS

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-005



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

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SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

MC-01 SWEPT PATH PLAN SHEET 1 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-400

NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

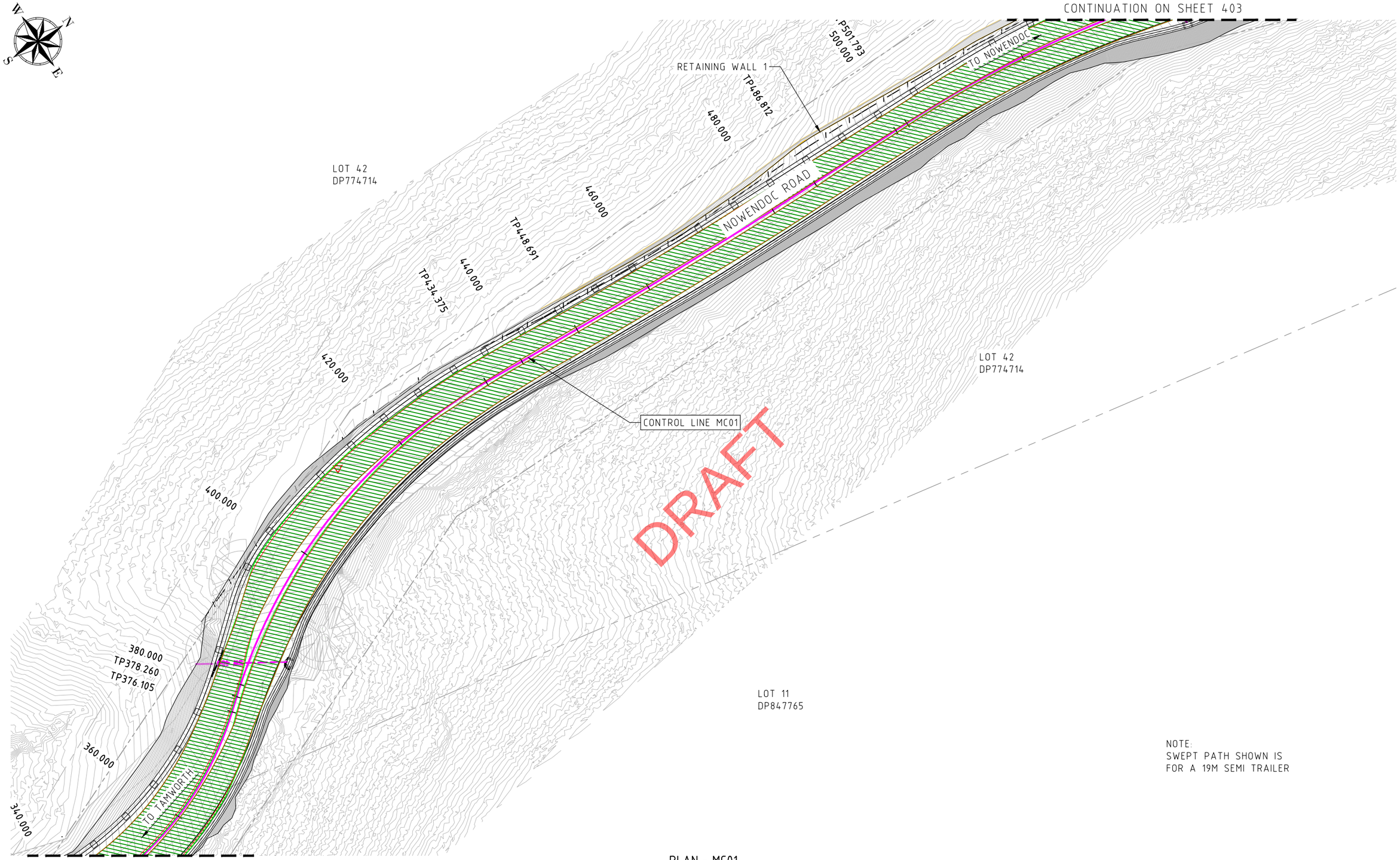
MC-01 SWEPT PATH PLAN SHEET 2 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-401



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

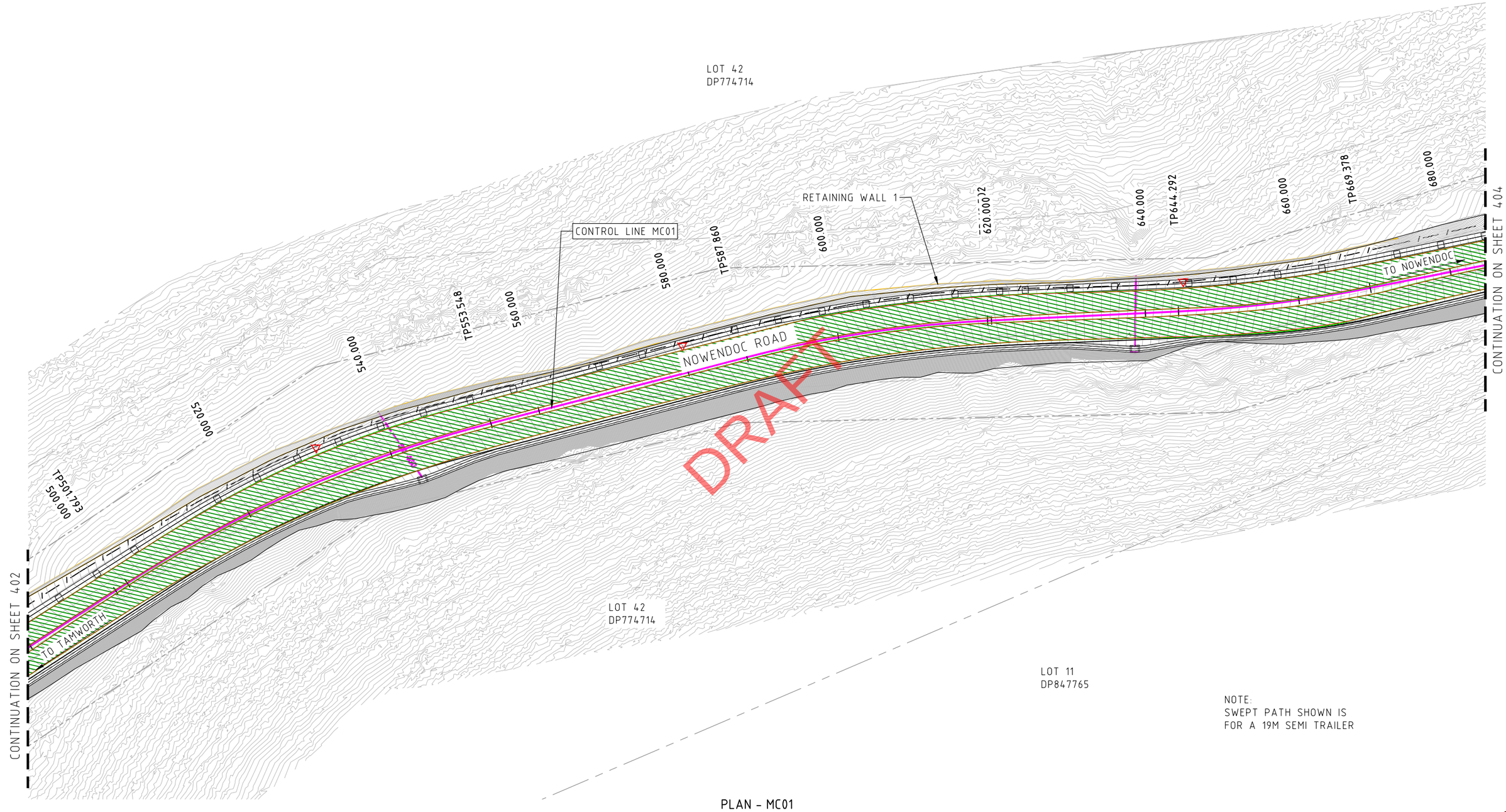
MC-01 SWEPT PATH PLAN SHEET 3 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-402



PLAN - MC01
SCALE: 1:500 AT A3

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

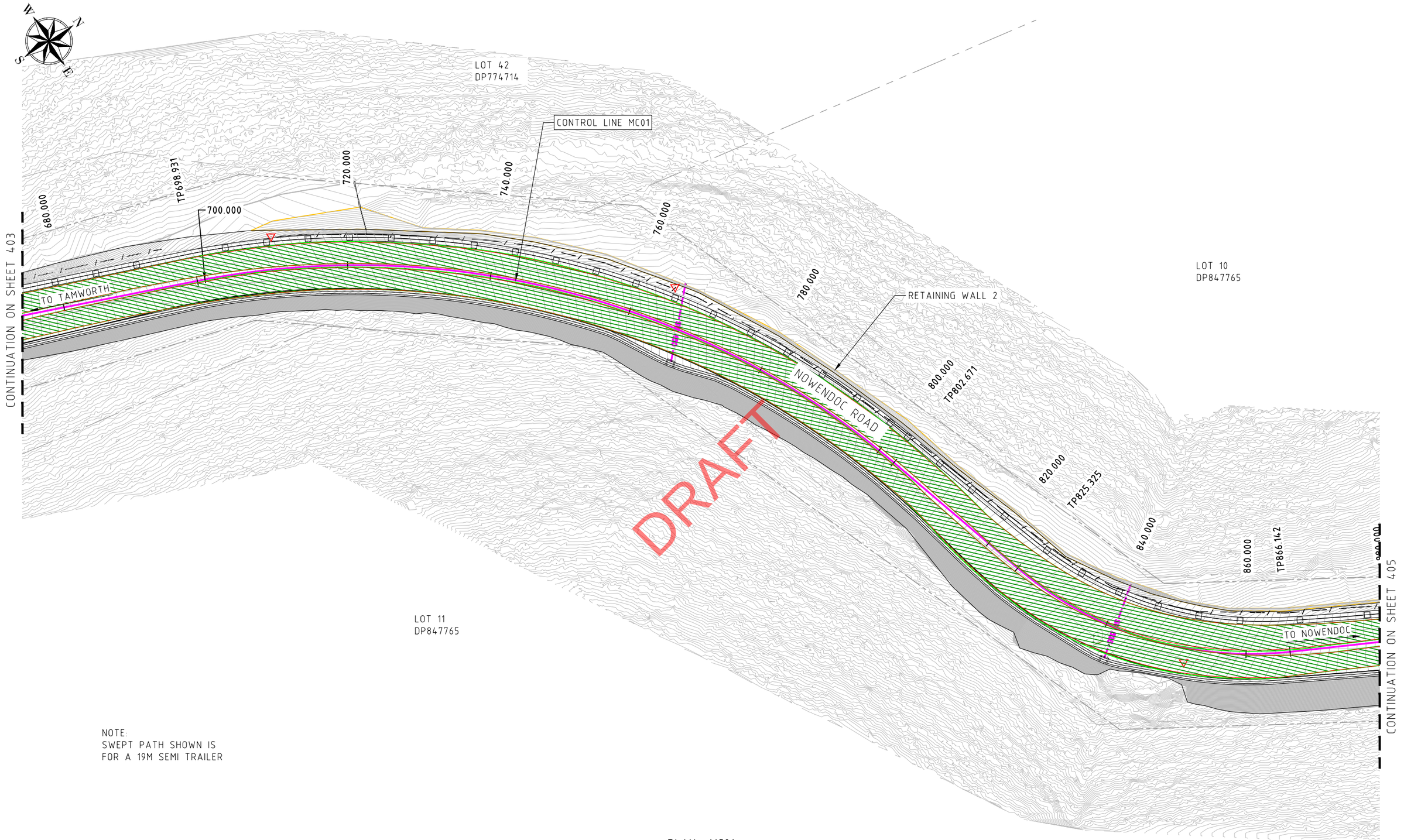
MC-01 SWEPT PATH PLAN SHEET 4 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-403



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

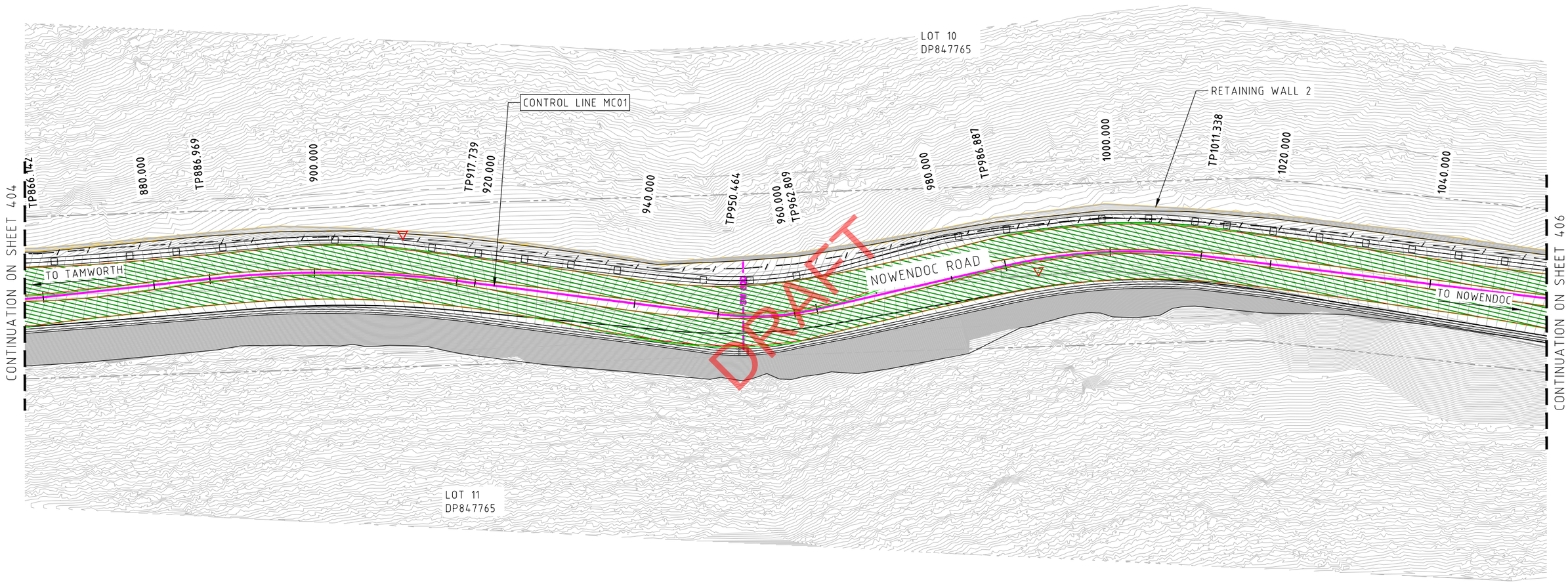
MC-01 SWEPT PATH PLAN SHEET 5 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-404



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

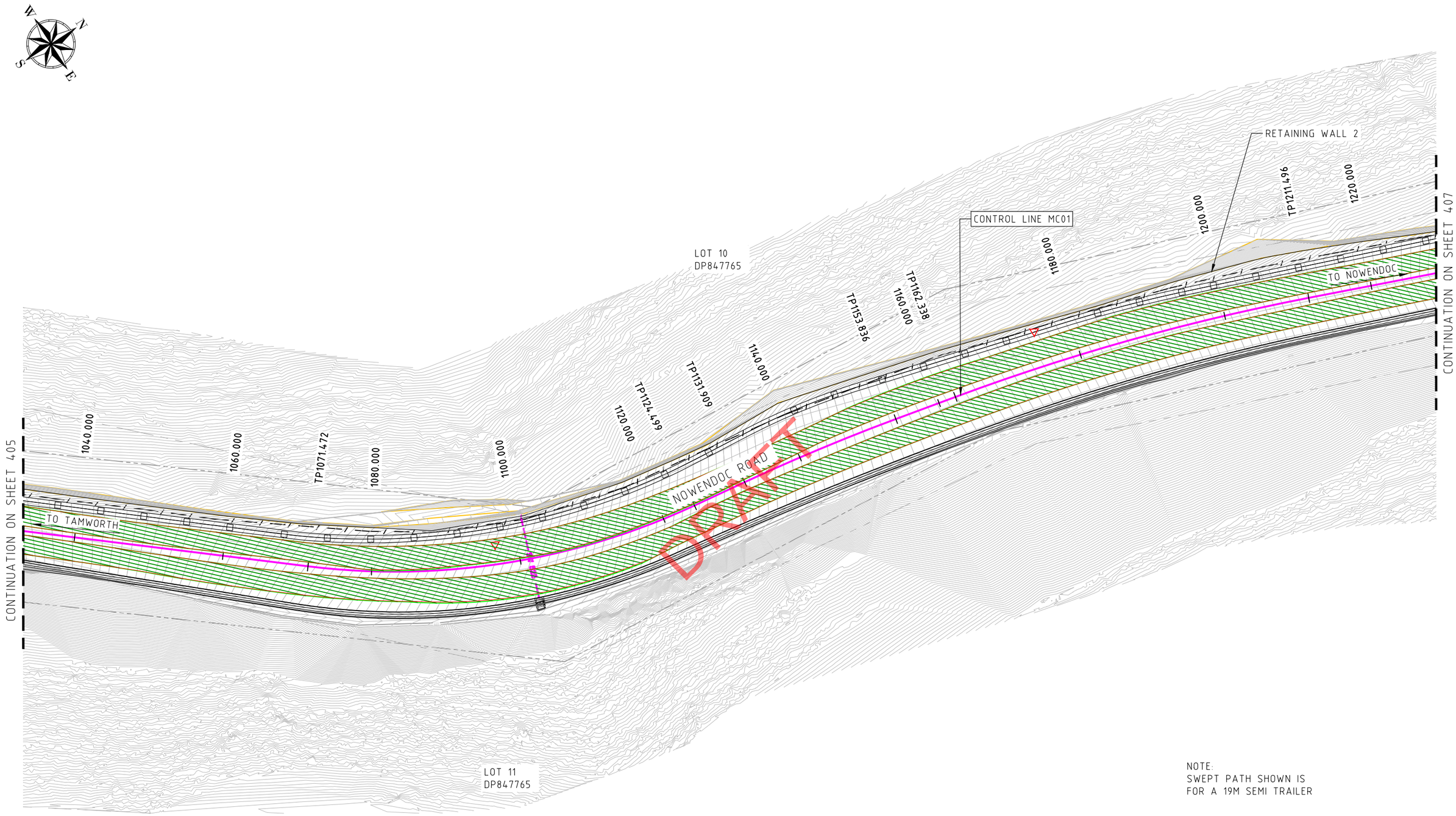
MC-01 SWEPT PATH PLAN SHEET 6 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-405



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

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SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

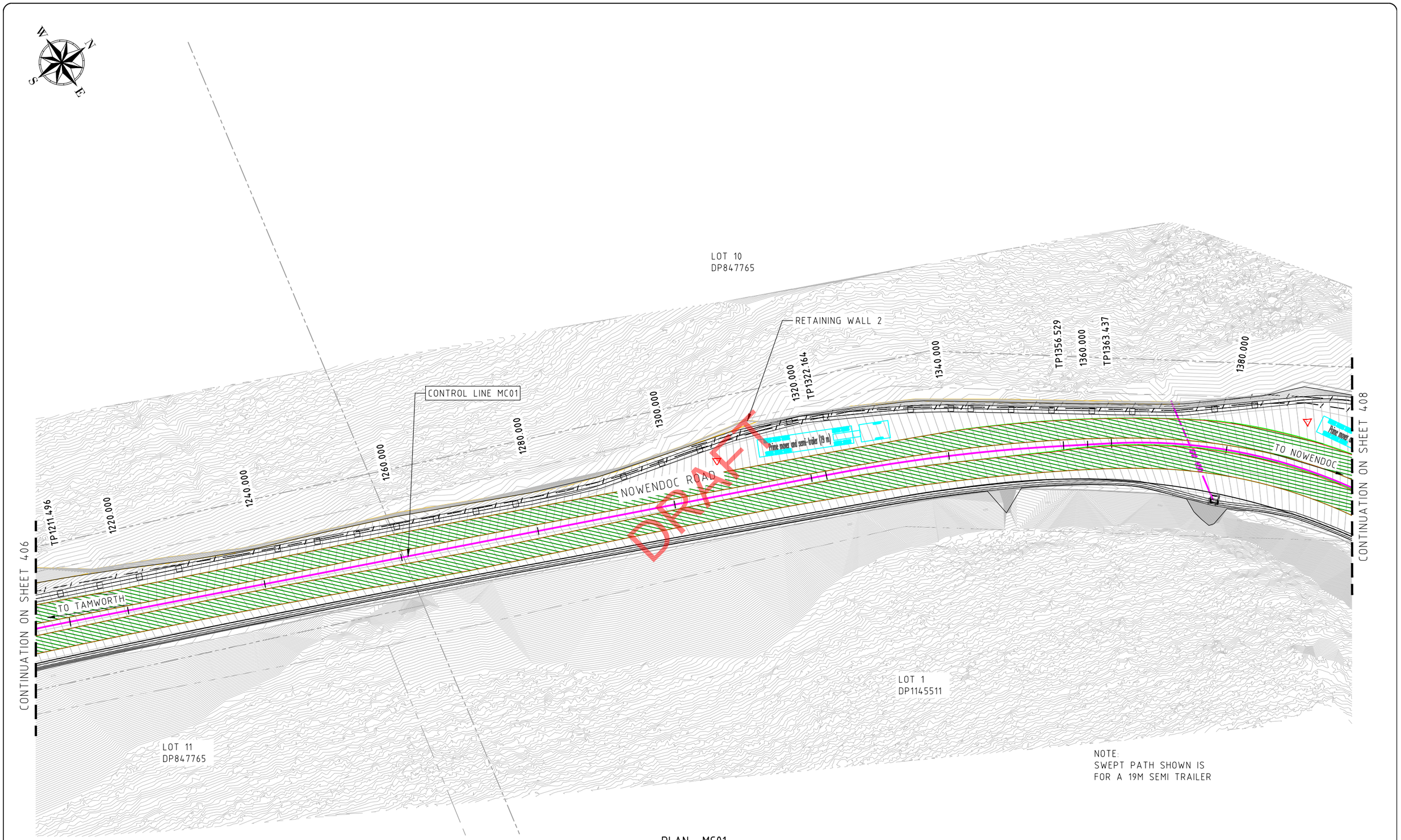
MC-01 SWEPT PATH PLAN SHEET 7 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-406



PLAN - MC01
SCALE: 1:500 AT A3

"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

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SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

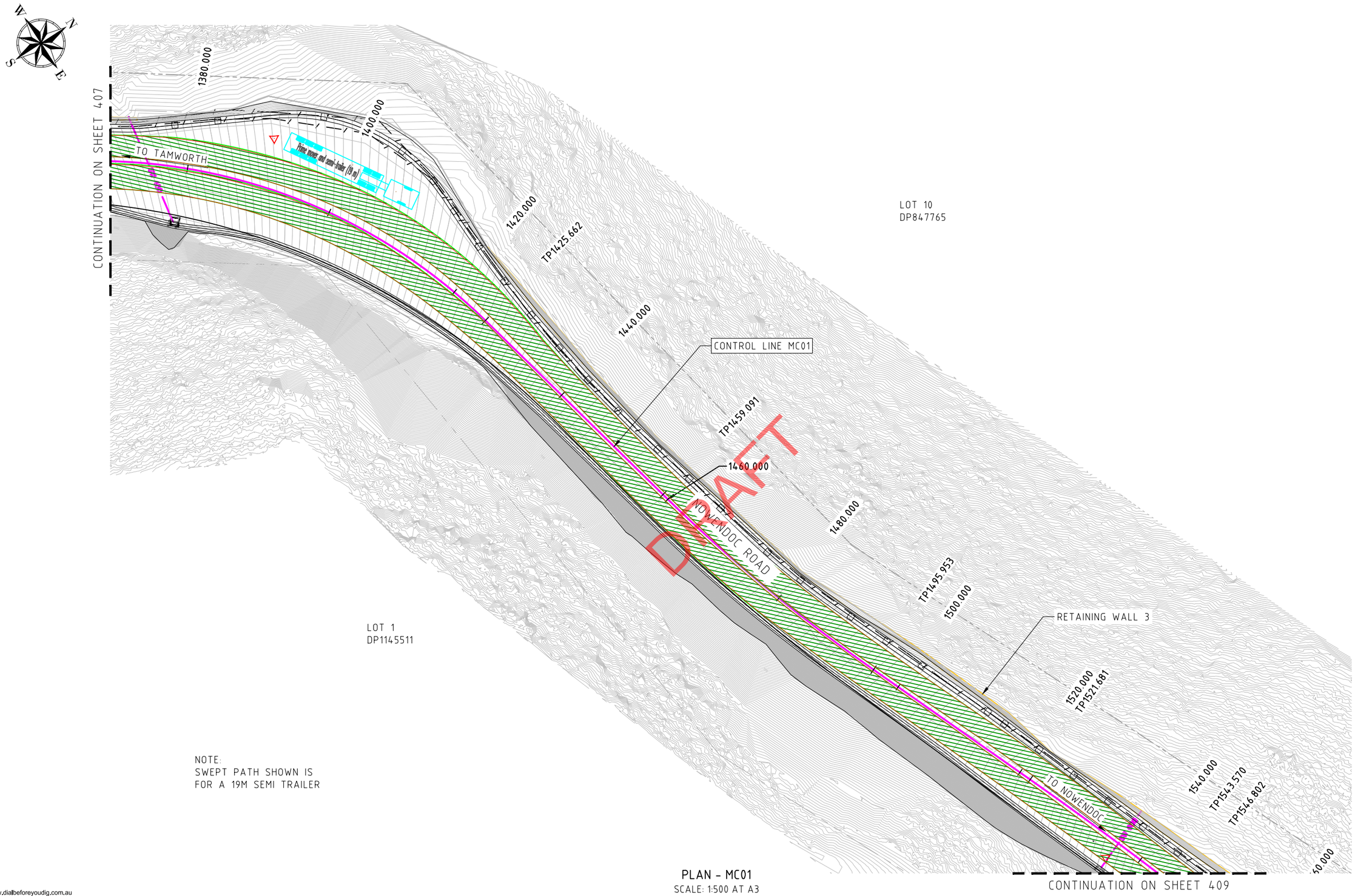
MC-01 SWEPT PATH PLAN SHEET 8 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-407



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

MC-01 SWEPT PATH PLAN SHEET 9 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-408

NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

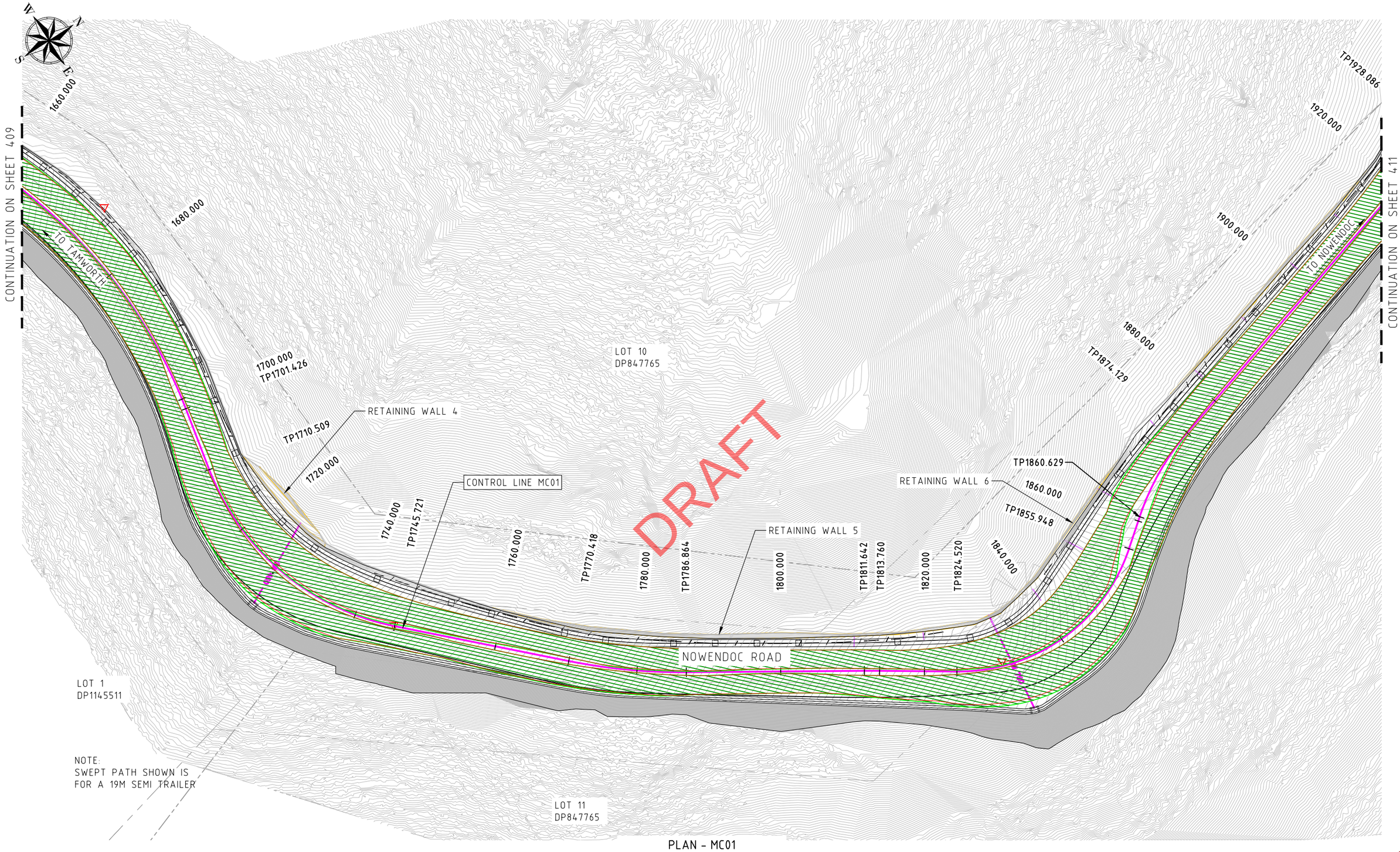
MC-01 SWEPT PATH PLAN SHEET 10 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-409



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

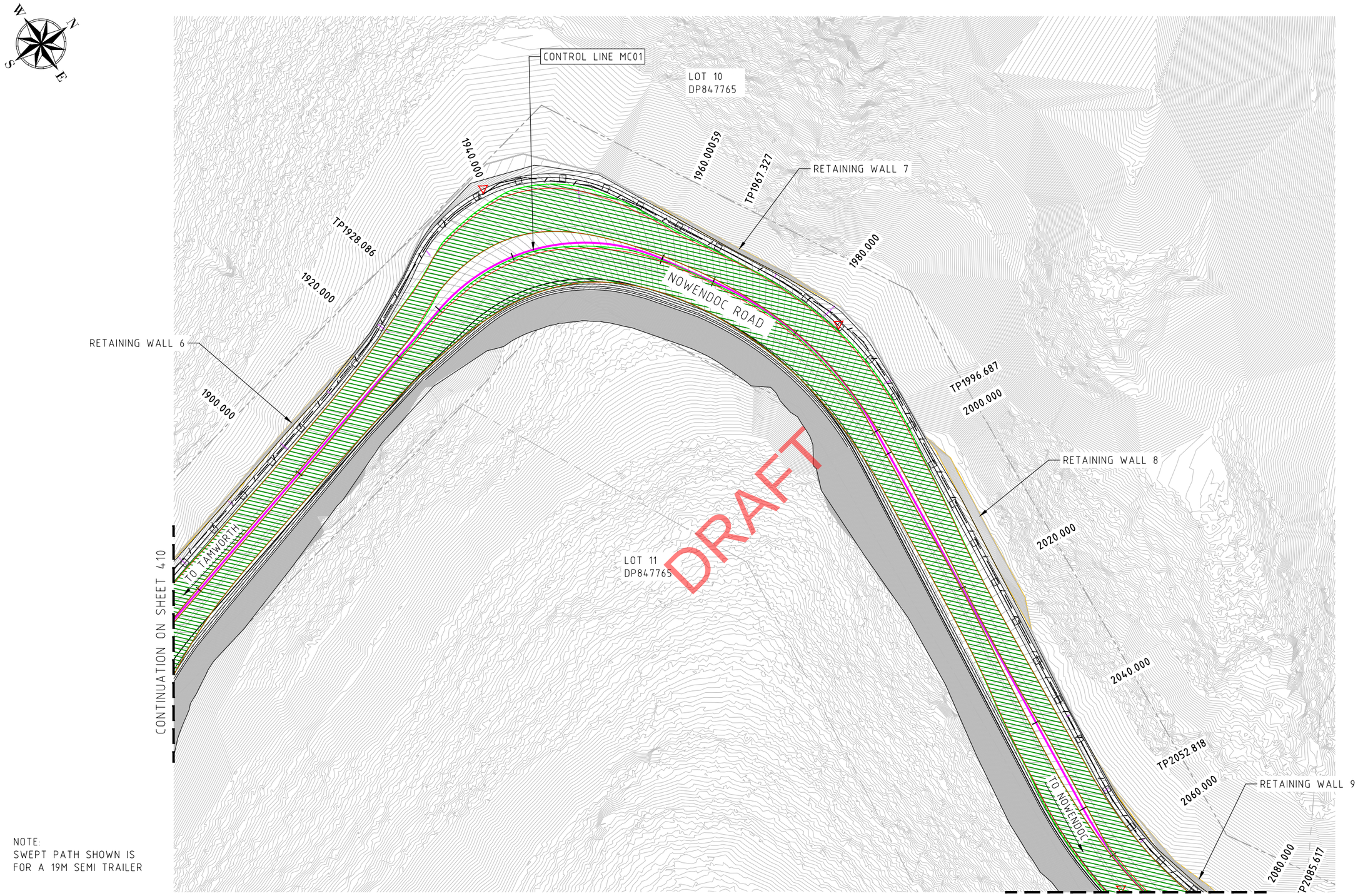
MC-01 SWEPT PATH PLAN SHEET 11 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-410



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

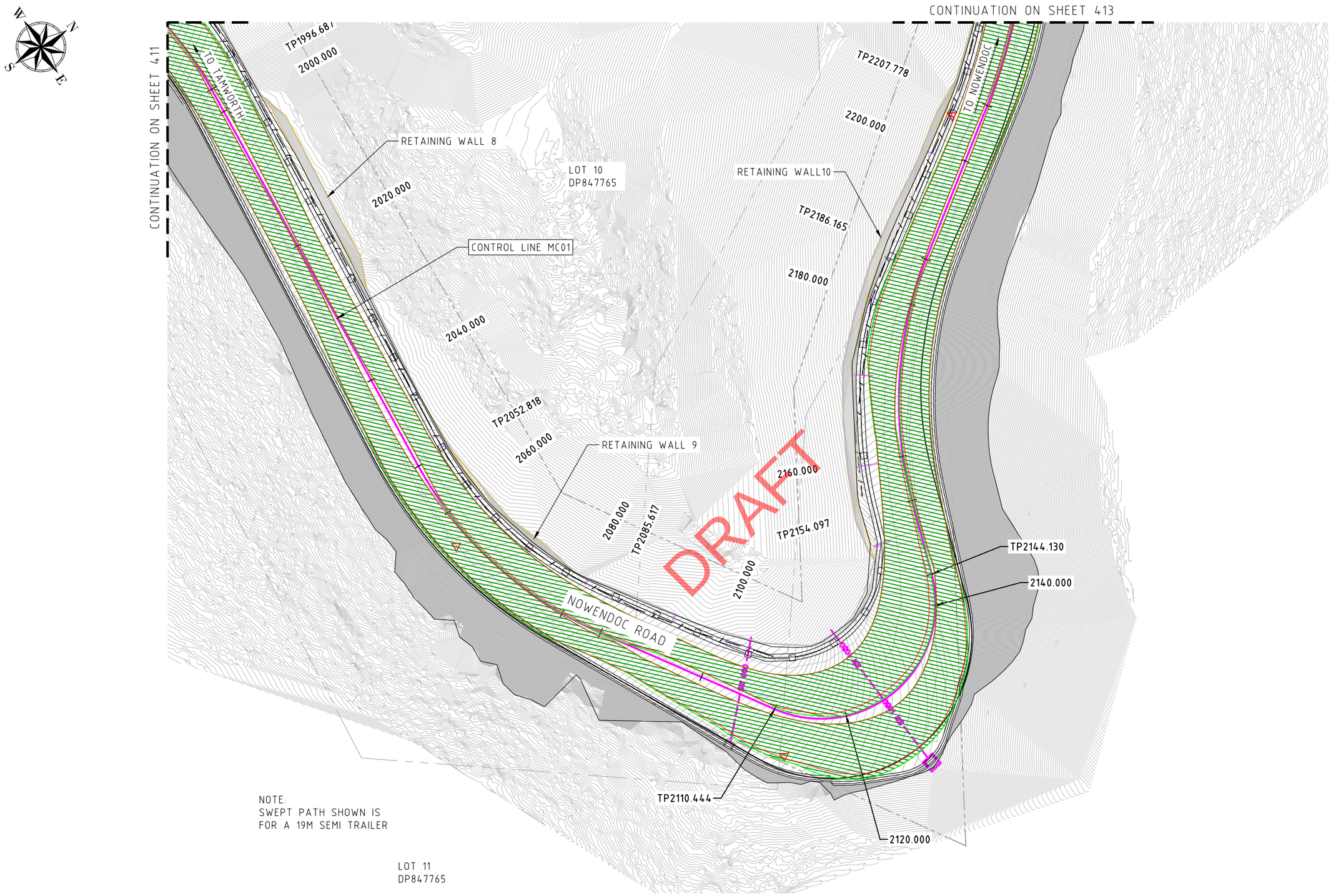
MC-01 SWEPT PATH PLAN SHEET 12 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-411



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

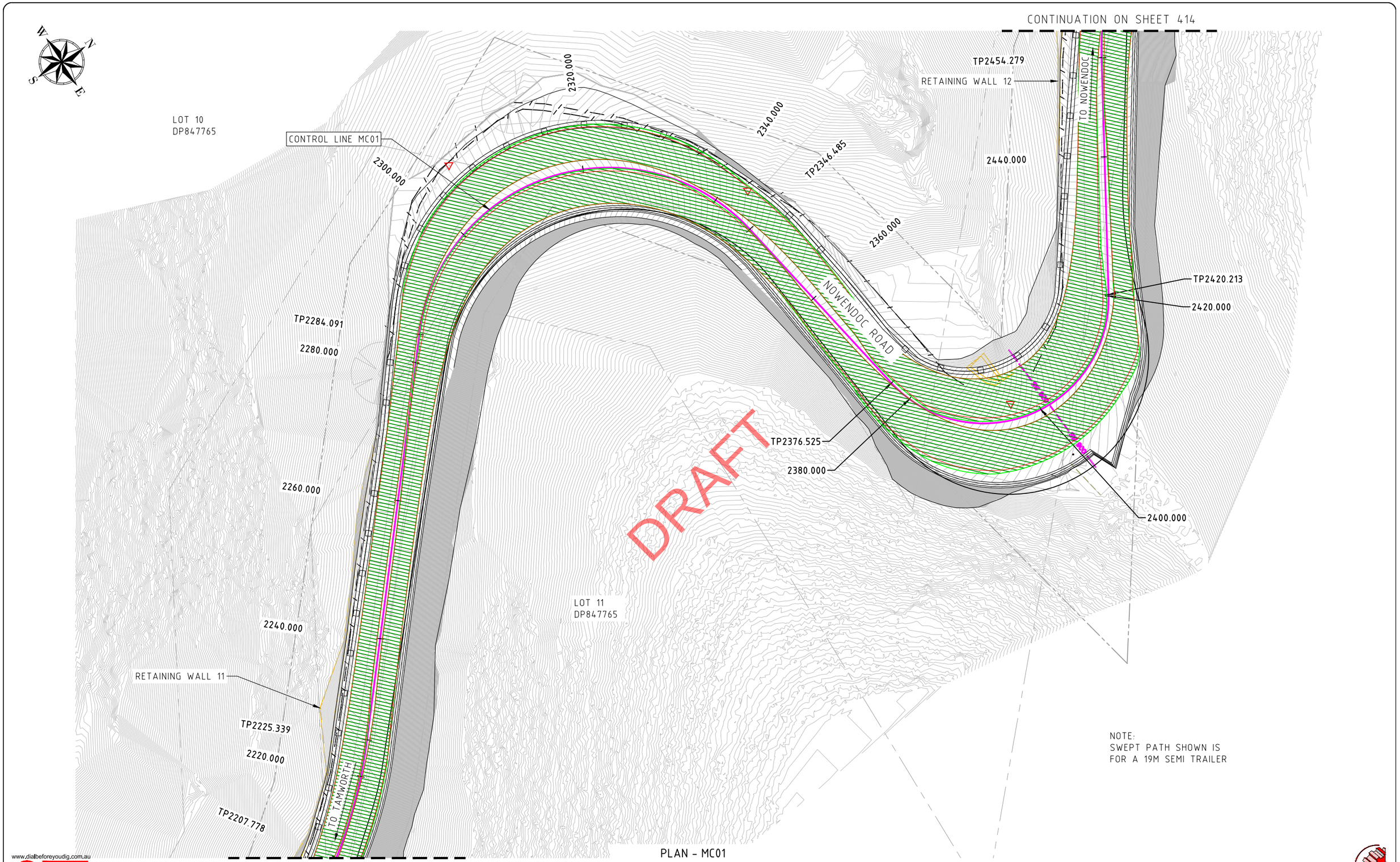
MC-01 SWEPT PATH PLAN SHEET 13 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-412



PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

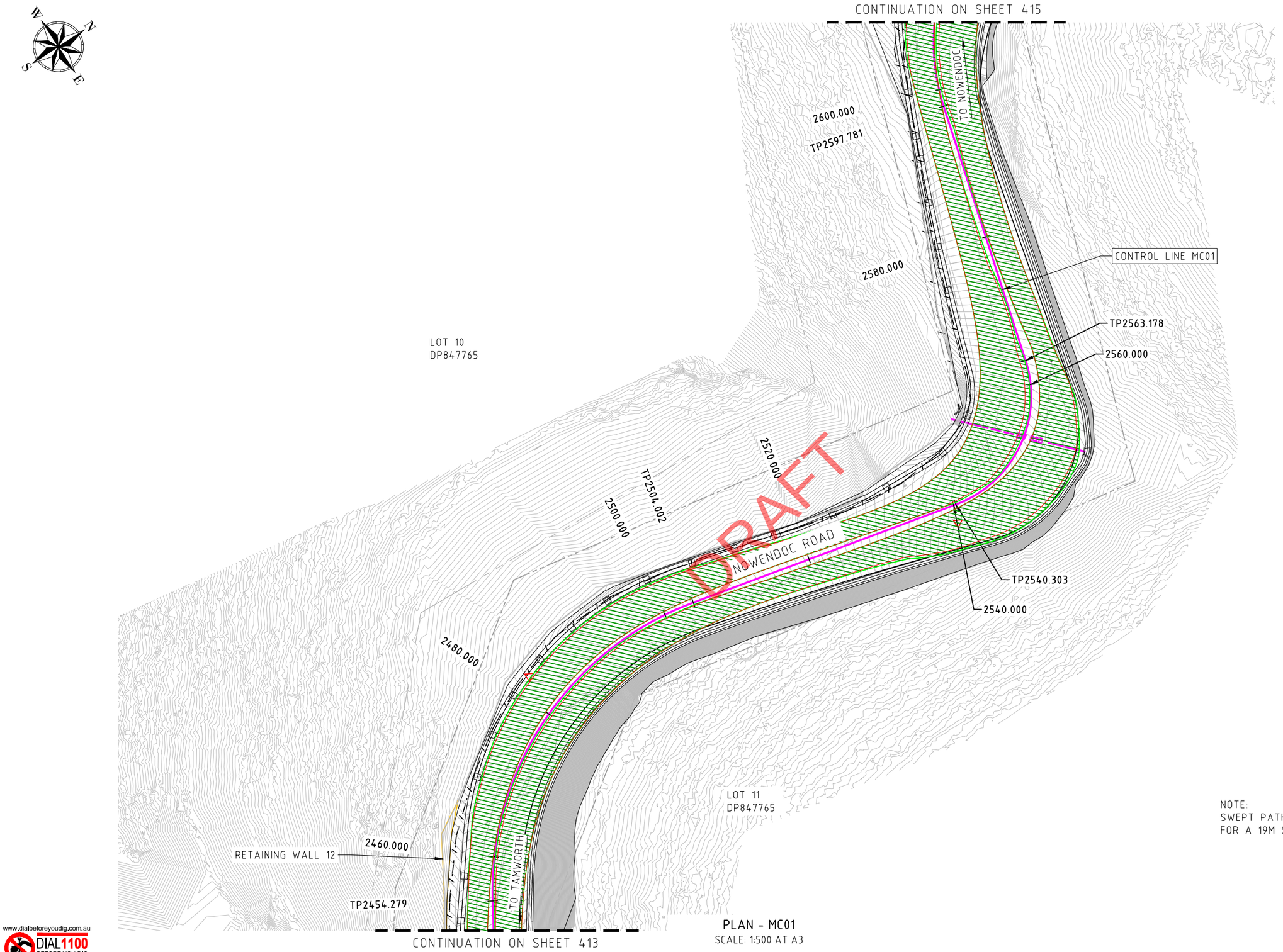
MC-01 SWEPT PATH PLAN SHEET 14 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-413



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

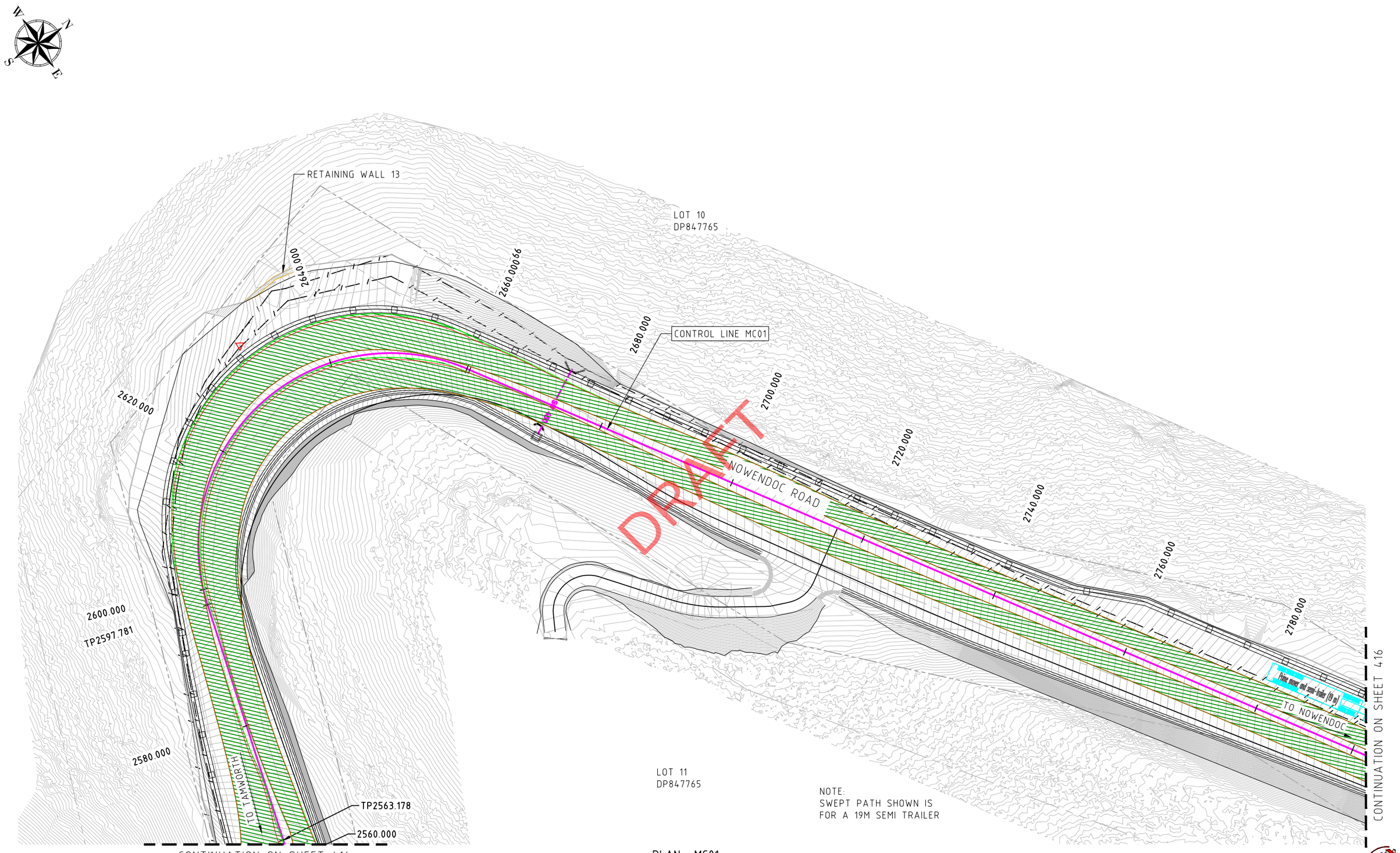
MC-01 SWEPT PATH PLAN SHEET 15 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-414



PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

MC-01 SWEPT PATH PLAN SHEET 16 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-415

NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

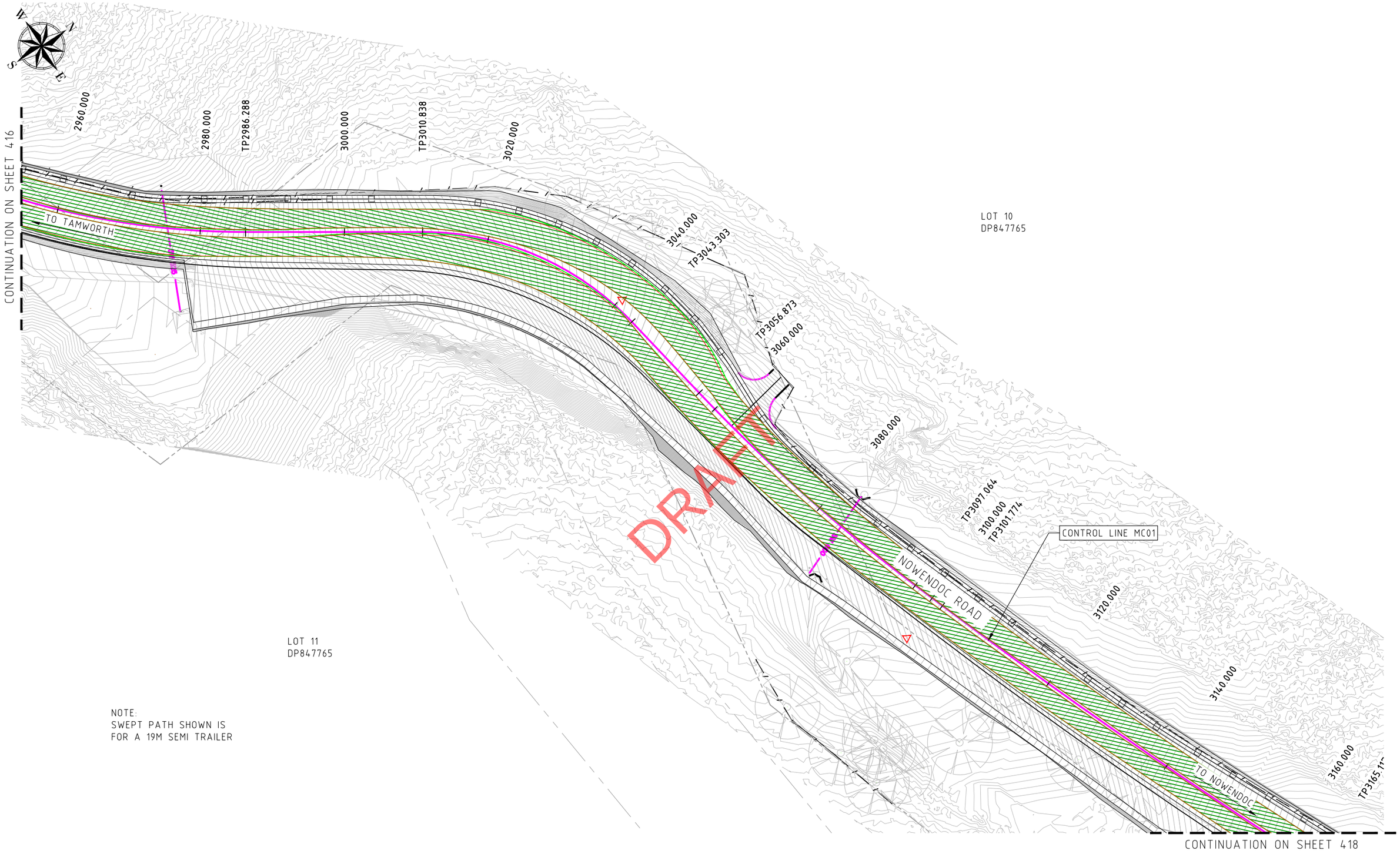
MC-01 SWEPT PATH PLAN SHEET 17 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-416



PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

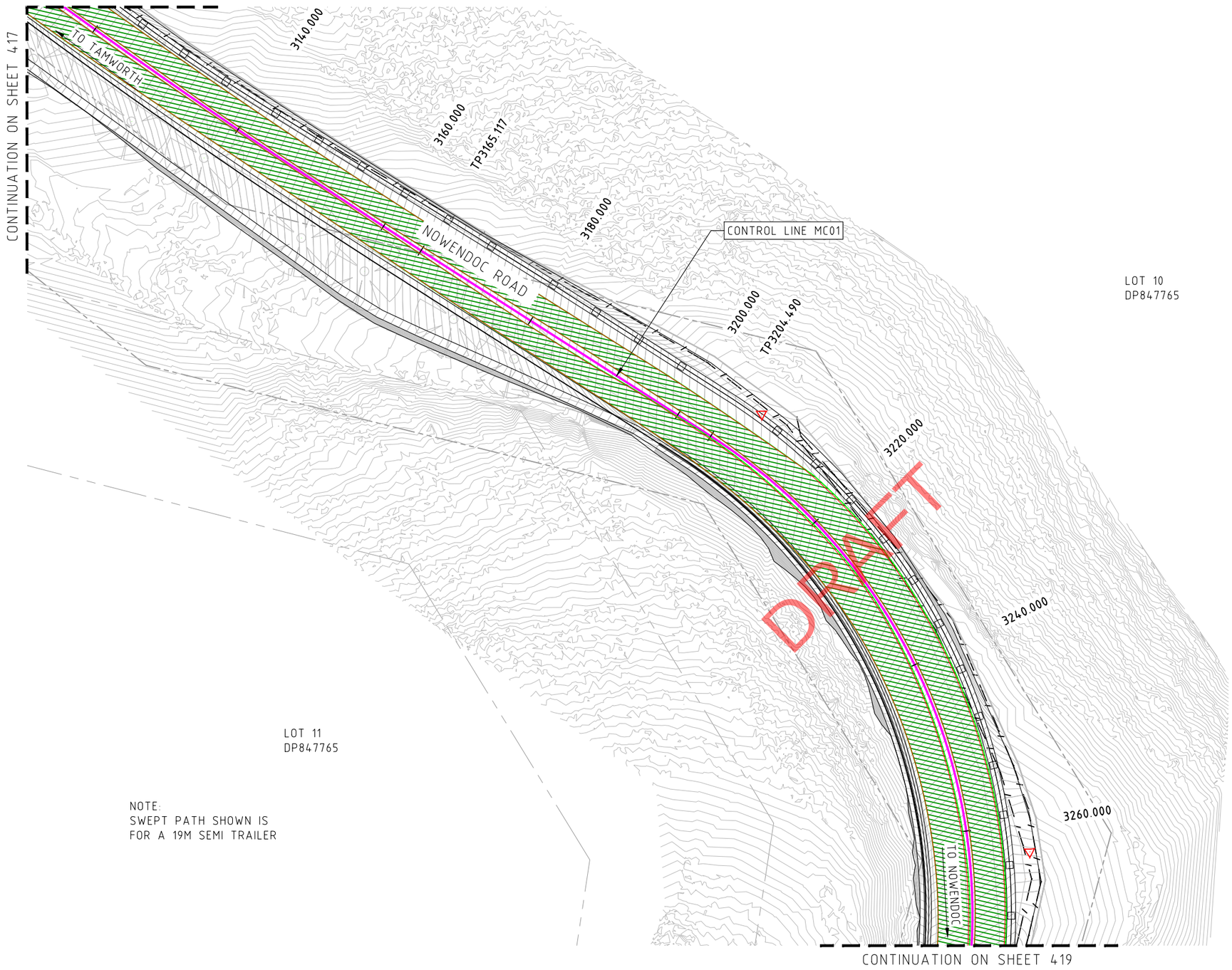
MC-01 SWEPT PATH PLAN SHEET 18 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-417



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

MC-01 SWEPT PATH PLAN SHEET 19 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-418

NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

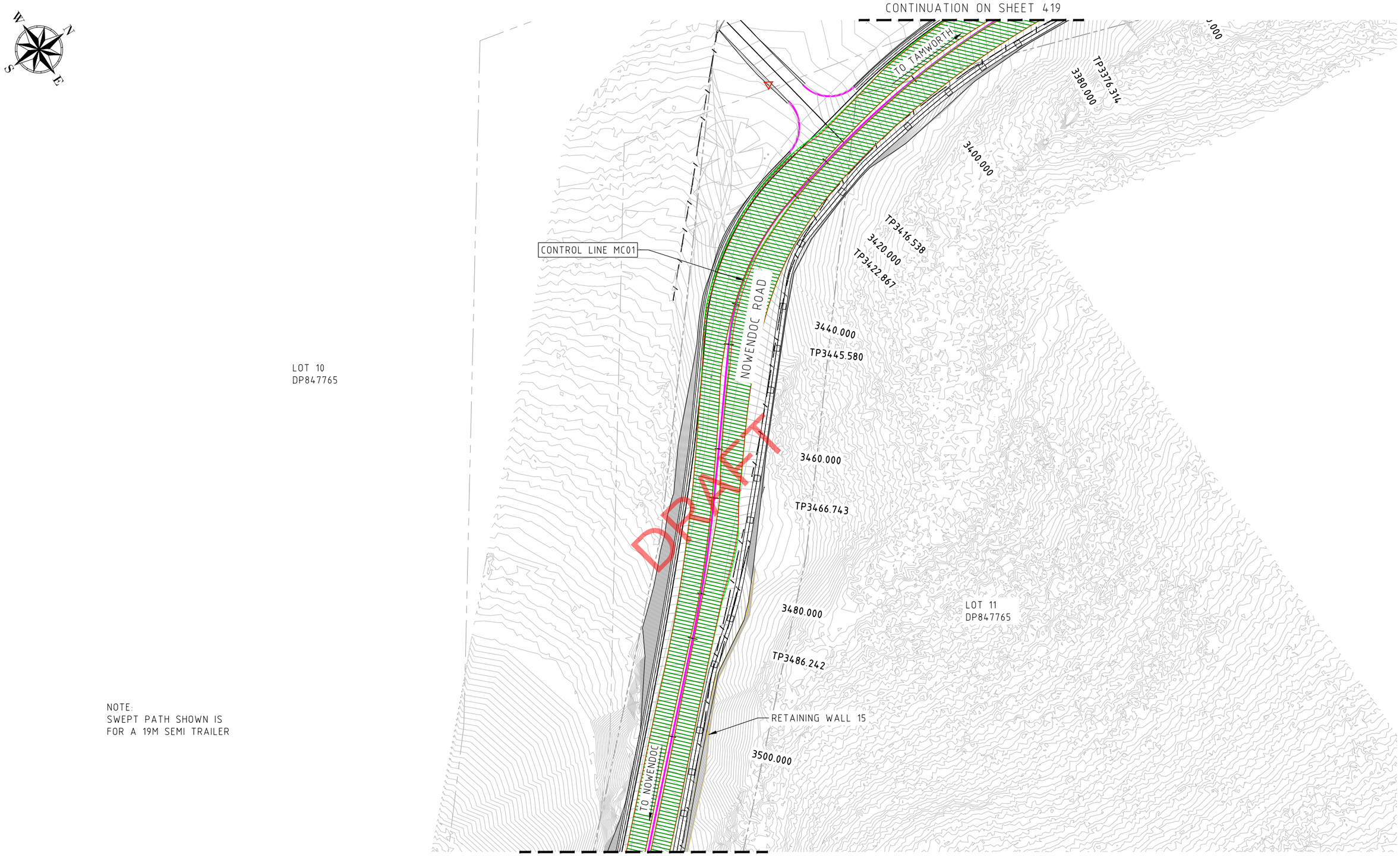
MC-01 SWEPT PATH PLAN SHEET 20 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-419



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

MC-01 SWEPT PATH PLAN SHEET 21 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-420

NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

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"Take 5"

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

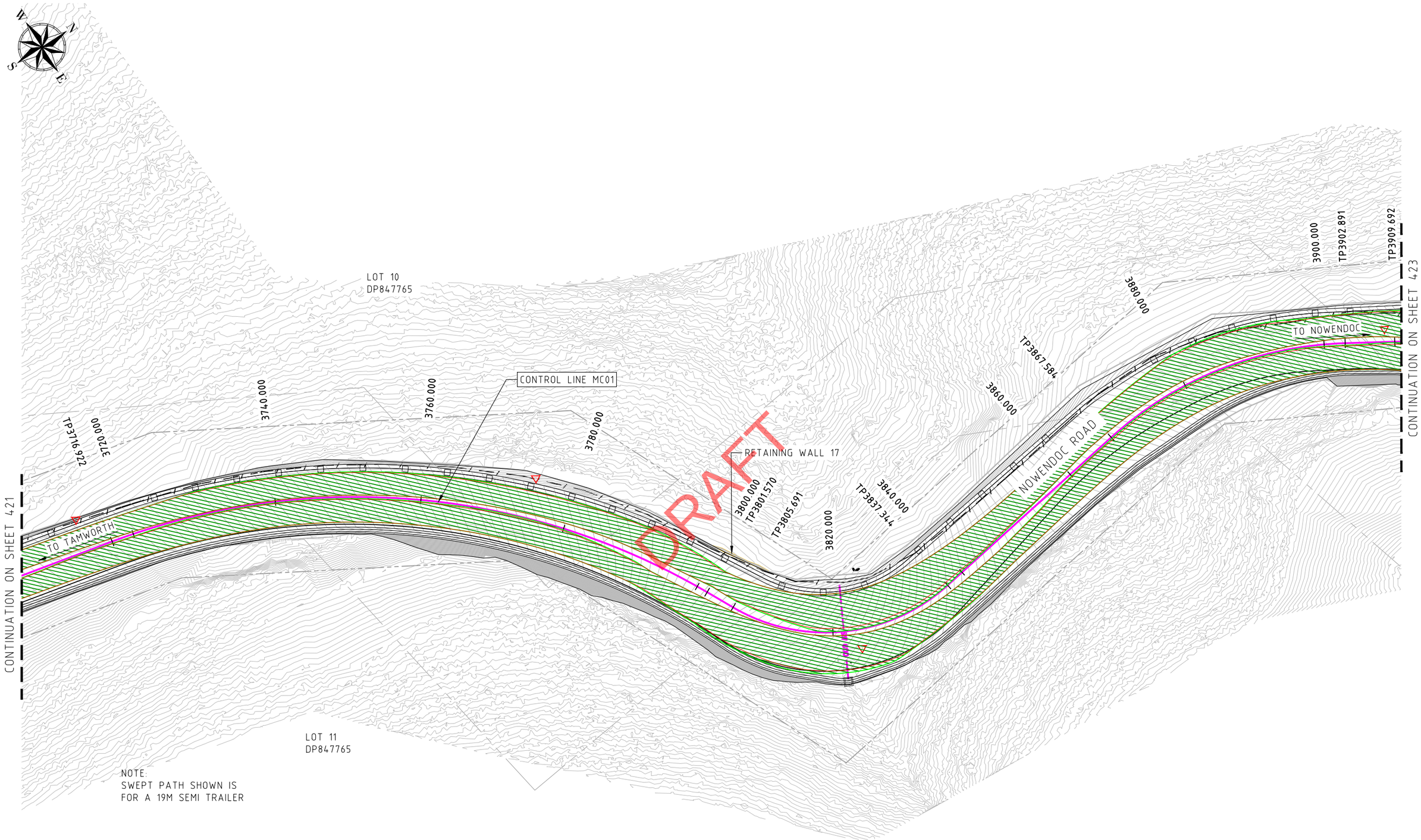
MC-01 SWEPT PATH PLAN SHEET 22 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-421



PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

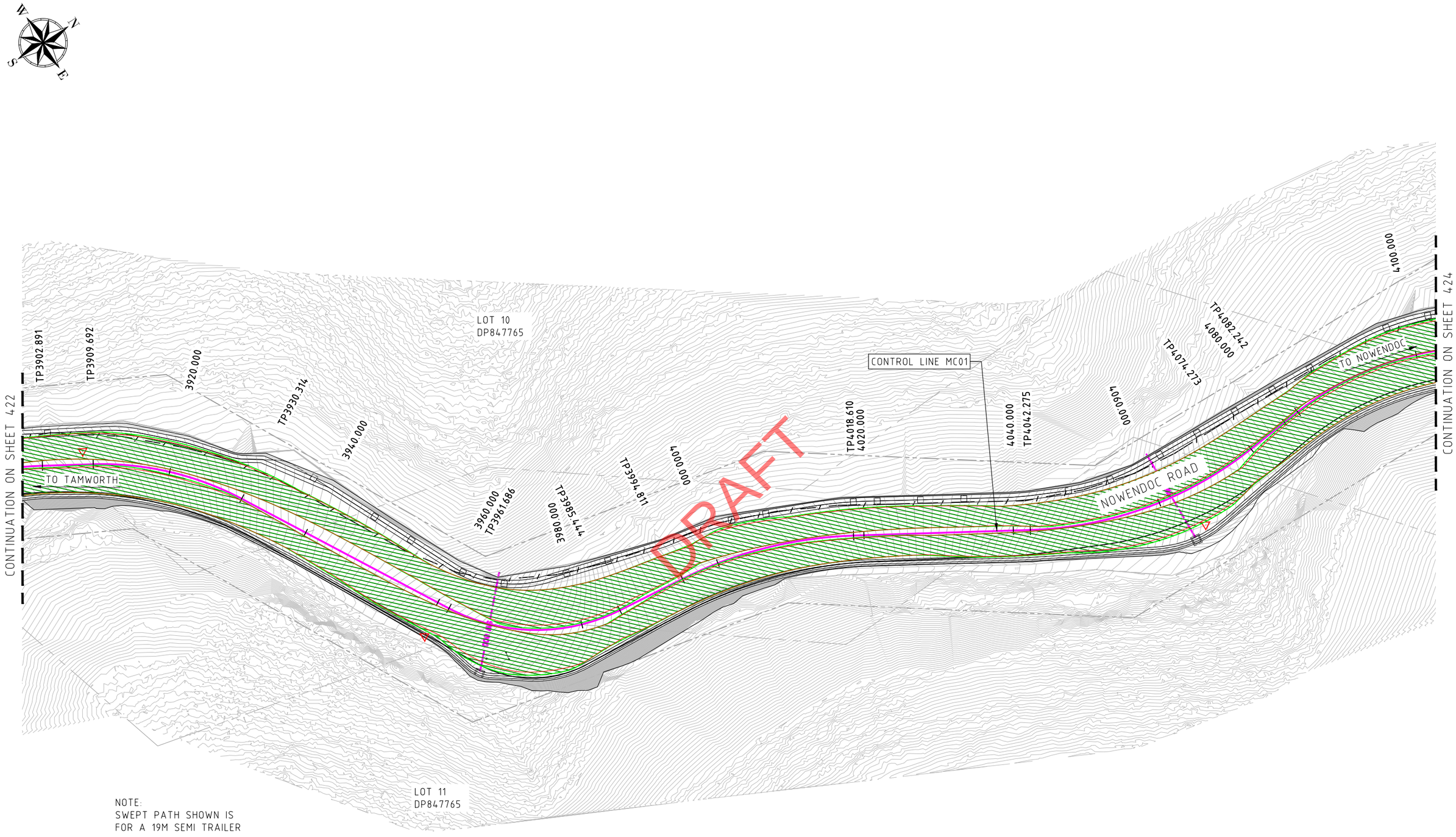
MC-01 SWEPT PATH PLAN SHEET 23 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-422



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

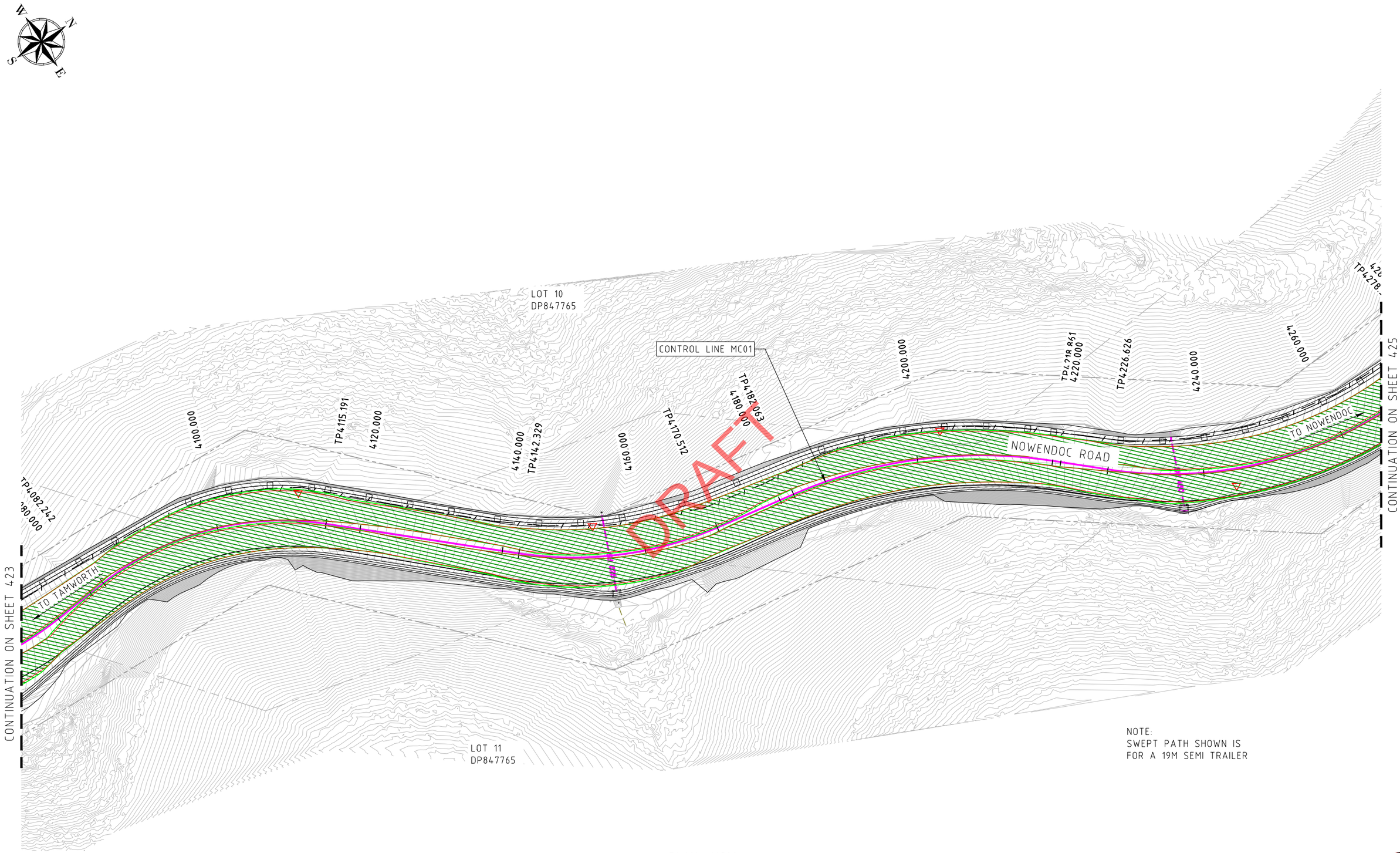
MC-01 SWEPT PATH PLAN SHEET 24 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-423



NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

MC-01 SWEPT PATH PLAN SHEET 25 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-424

NOTE:
SWEPT PATH SHOWN IS
FOR A 19M SEMI TRAILER

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

MC-01 SWEPT PATH PLAN SHEET 26 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-425

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

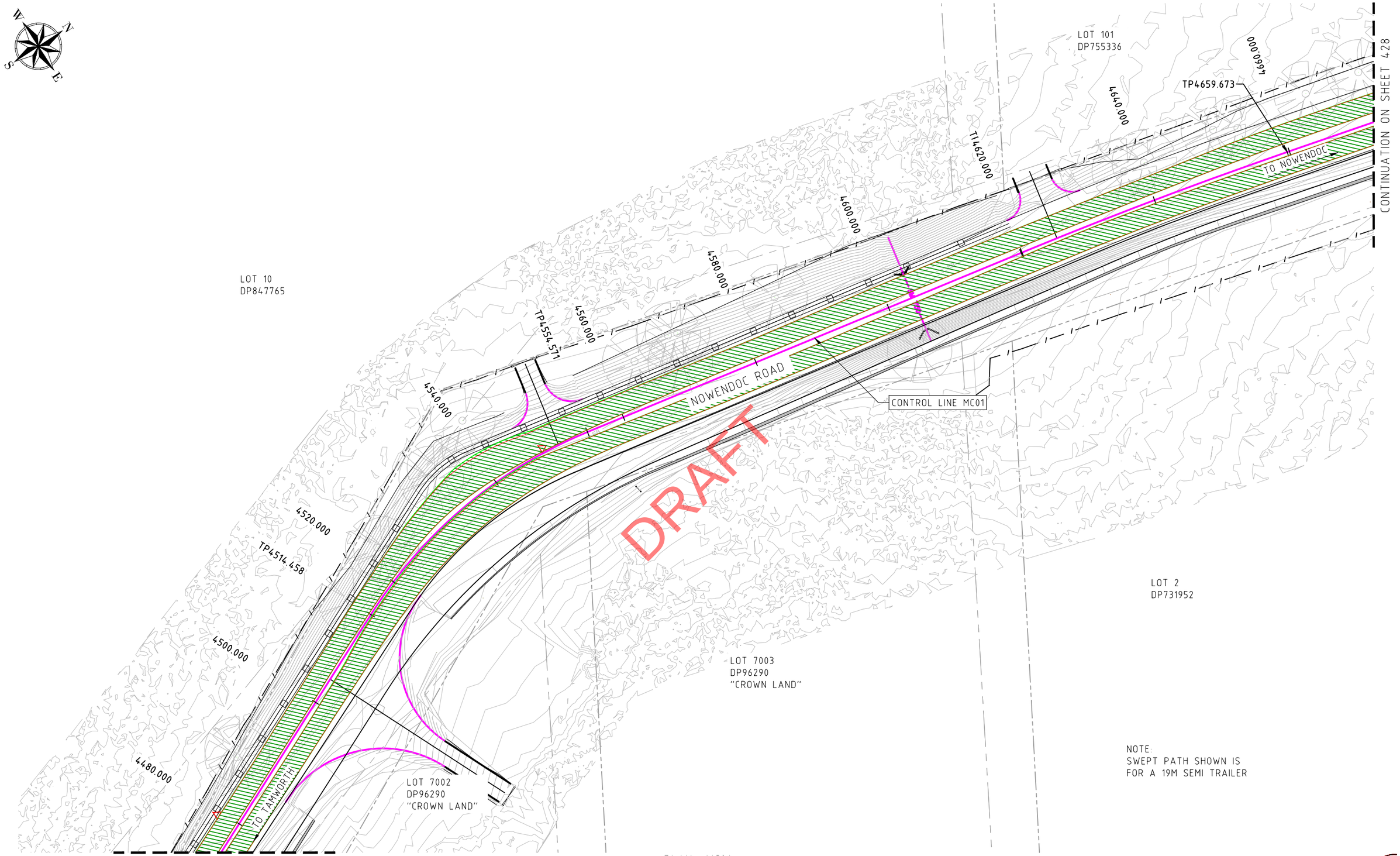
MC-01 SWEPT PATH PLAN SHEET 27 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-426



PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

MC-01 SWEPT PATH PLAN SHEET 28 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-427

PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

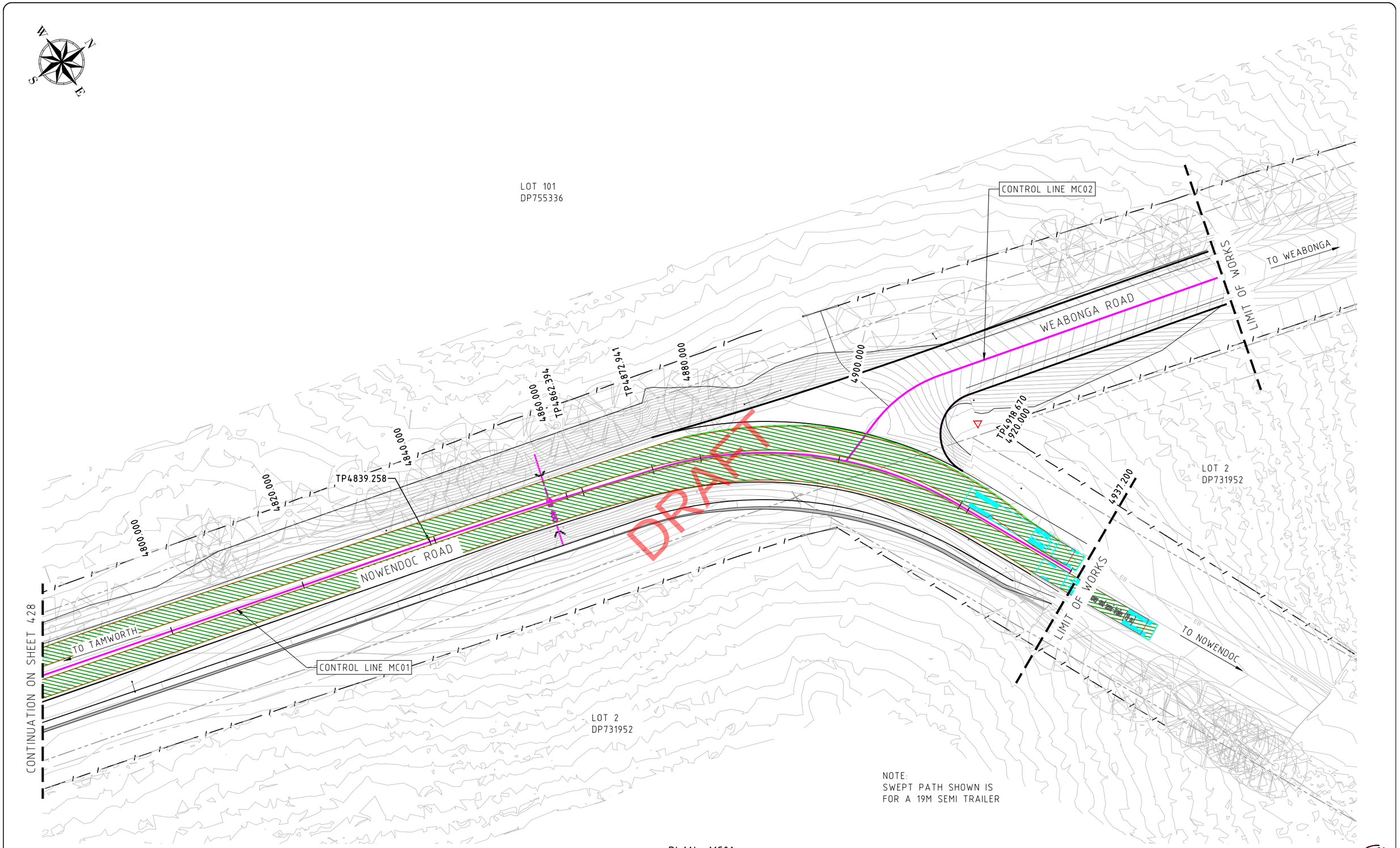
MC-01 SWEPT PATH PLAN SHEET 29 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
DRAWING NO. 1455-428
A3



PLAN - MC01
SCALE: 1:500 AT A3

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Swept Path Plan.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

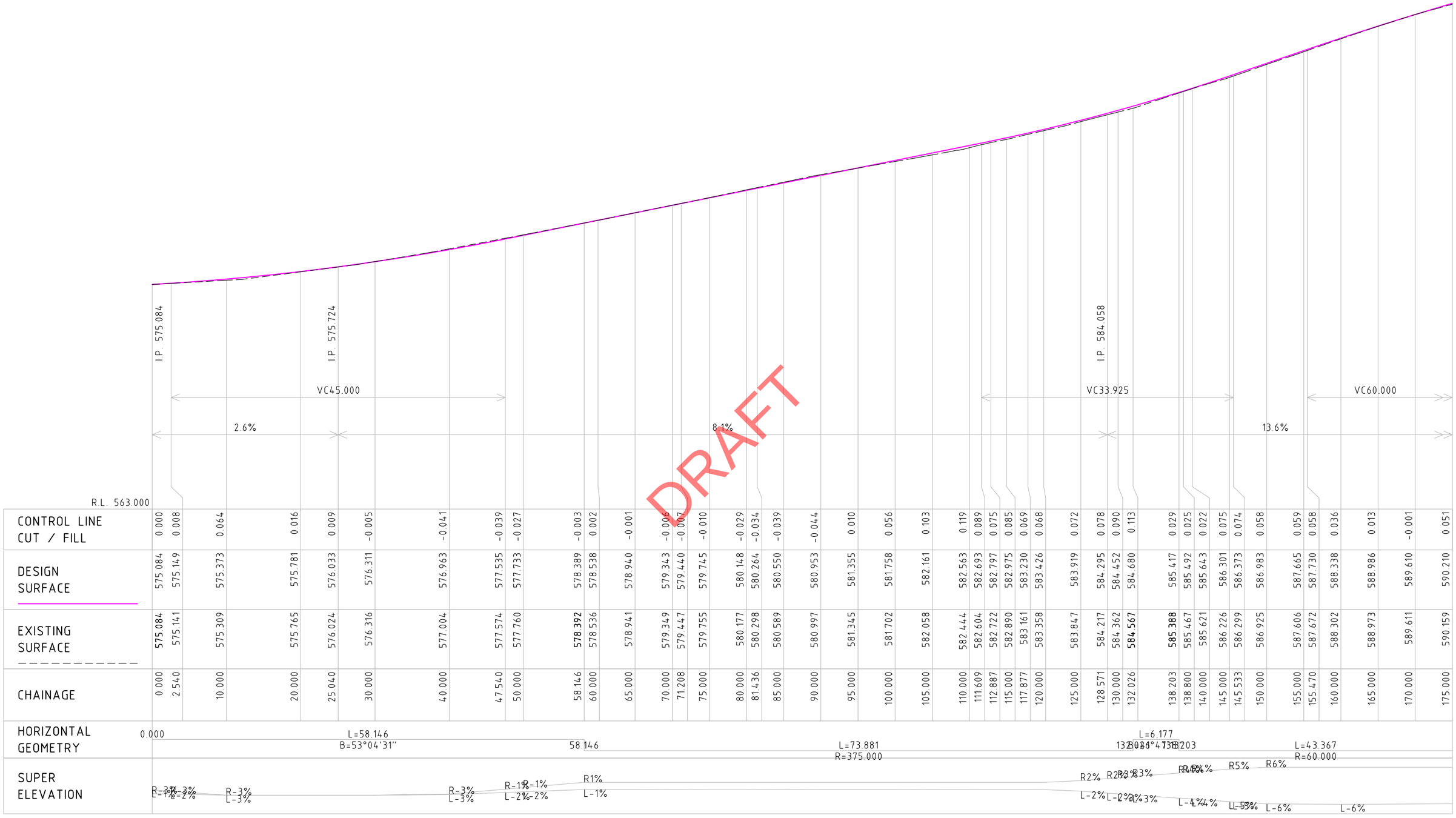
MC-01 SWEPT PATH PLAN SHEET 30 OF 30

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-429



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LONGITUDINAL SECTION - MC01
SCALE: 1:500H 1:200V (A3)

"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500
VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

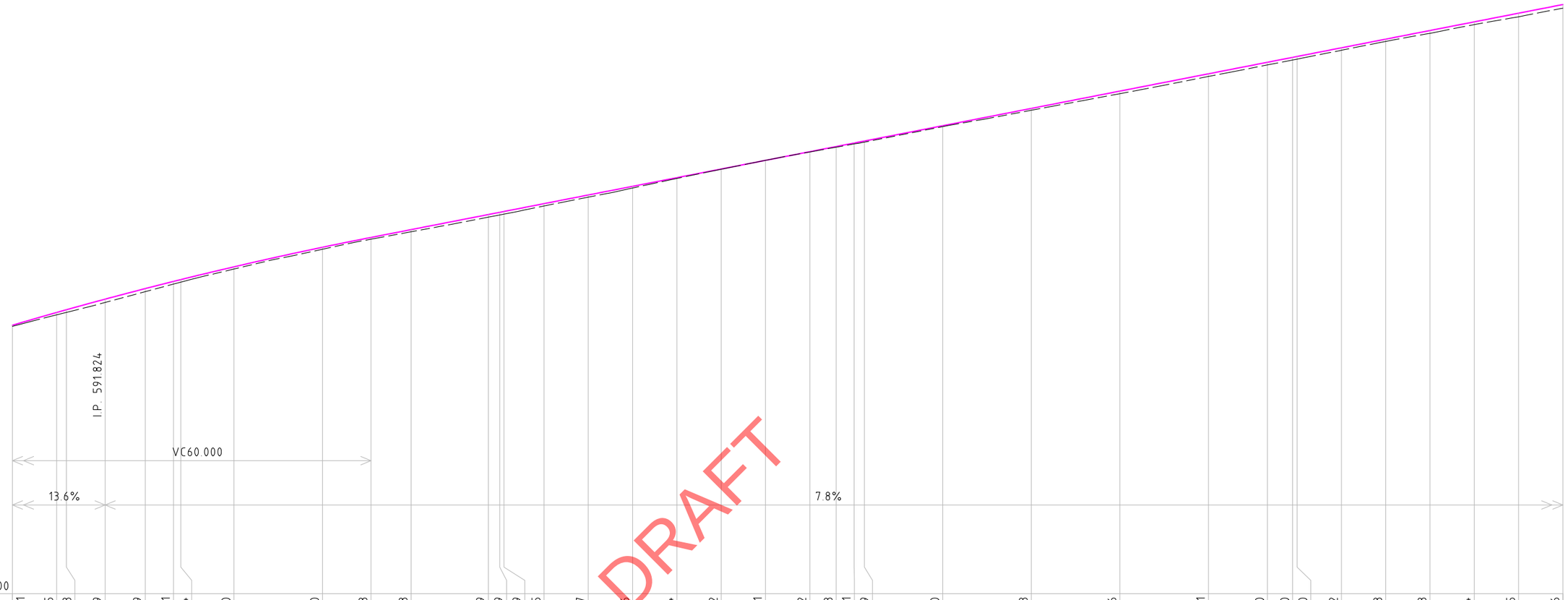
MC-01 LONGITUDINAL SHEET 1 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM	SCALES AS SHOWN
A.H.D.	DRAWING NO.
A3	1455-200



R.L. 578.100

CONTROL LINE CUT / FILL	0.051	0.105	0.118	0.149	0.139	0.121	0.114	0.100	0.090	0.078	0.098	0.119	0.119	0.119	0.105	0.097	0.076	0.034	0.012	-0.001	0.012	0.028	0.041	0.049	0.040	0.083	0.116	0.121	0.120	0.120	0.120	0.112	0.103	0.128	0.124	0.165	0.166
DESIGN SURFACE	590.210	590.785	590.908	591.386	591.862	592.186	592.267	592.843	593.726	594.167	594.521	595.203	595.302	595.339	595.693	596.083	596.474	596.864	597.255	597.645	598.036	598.268	598.426	598.517	599.207	599.988	600.769	601.550	602.070	602.292	602.331	602.722	603.112	603.503	603.893	604.284	604.674
EXISTING SURFACE	590.159	590.680	590.790	591.237	591.723	592.065	592.153	592.743	593.636	594.089	594.423	595.084	595.183	**595.220**	595.588	595.986	596.398	596.830	597.243	597.646	598.024	**598.240**	598.385	598.468	599.167	599.905	600.653	601.429	601.950	**602.172**	602.211	602.610	603.009	603.375	603.769	604.119	604.508
CHAINAGE	175.000	180.000	181.100	185.470	190.000	193.188	194.008	200.000	210.000	215.470	220.000	228.727	230.000	230.478	235.000	240.000	245.000	250.000	255.000	260.000	265.000	267.978	270.000	271.169	280.000	290.000	300.000	310.000	316.659	319.494	320.000	325.000	330.000	335.000	340.000	345.000	350.000

HORIZONTAL GEOMETRY

L=43.361 R=60.000 | 181.570 | L=48.908 B=0°22'28" | 230.478 | L=37.500 R=70.000 | 267.978 | L=51.516 B=31°04'07" | 319.494 | L=56.611 R=45.000

SUPER ELEVATION

R6% R5% R4% R3% R1% L-1% L-2% R-2% L3% R-3% L-3% L-4% L-6% L-6% L-4% L-3% L3% R-3% R1% L-1% R4% R5% R6% L-4% L-5% L-6%

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LONGITUDINAL SECTION - MC01
SCALE: 1:500H 1:200V (A3)

"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500
VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

CHECKED: DATE: DESIGNER
CHECKED: DATE: SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE: CLIENT REPRESENTATIVE

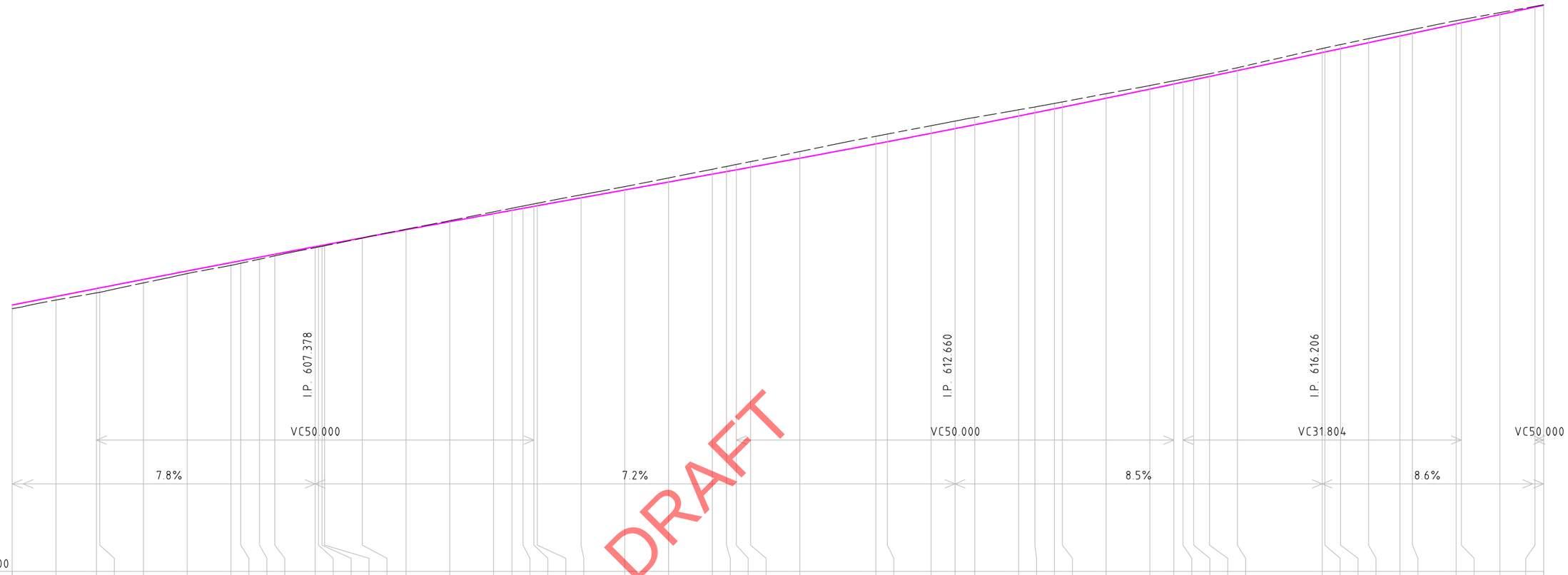
MC-01 LONGITUDINAL SHEET 2 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D. | SCALES AS SHOWN | DRAWING NO. 1455-201 | A3



CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
0.166	604.674	604.508	350.000
0.164	605.065	604.901	355.000
0.199	605.425	605.226	359.619
0.202	605.455	605.253	360.000
0.158	605.844	605.686	365.000
0.119	606.230	606.111	370.000
0.126	606.613	606.487	375.000
0.114	606.697	606.583	376.105
0.091	606.861	606.770	378.260
0.072	606.993	606.921	380.000
0.046	607.341	607.295	384.619
0.044	607.370	607.326	385.000
0.042	607.400	607.358	385.402
0.041	607.422	607.381	385.700
0.013	607.744	607.731	390.000
-0.026	608.115	608.141	395.000
-0.046	608.483	608.529	400.000
-0.084	608.849	608.933	405.000
-0.097	609.002	609.099	407.108
-0.105	609.093	609.198	408.372
-0.113	609.184	609.297	409.619
-0.115	609.211	609.326	410.000
-0.139	609.572	609.711	415.000
-0.155	609.933	610.088	420.000
-0.186	610.295	610.481	425.000
-0.223	610.656	610.879	430.000
-0.235	610.773	611.008	431.618
-0.244	610.854	611.098	432.745
-0.255	610.972	611.227	434.375
-0.303	611.385	611.688	440.000
-0.351	612.037	612.388	448.691
-0.351	612.137	612.488	450.000
-0.348	612.523	612.871	455.000
-0.345	612.737	613.082	457.745
-0.334	612.914	613.248	460.000
-0.283	613.312	613.595	465.000
-0.264	613.462	613.726	466.869
-0.246	613.643	613.889	469.096
-0.240	613.716	613.956	470.000
-0.206	614.126	614.332	475.000
-0.166	614.542	614.708	480.000
-0.149	614.774	614.923	482.745
-0.142	614.862	615.004	483.788
-0.135	614.964	615.099	485.000
-0.125	615.118	615.243	486.812
-0.133	615.388	615.521	490.000
-0.185	616.211	616.396	499.691
-0.185	616.238	616.423	500.000
-0.186	616.390	616.576	501.793
-0.185	616.664	616.849	505.000
-0.175	616.970	617.145	508.573
-0.170	617.092	617.262	510.000
-0.150	617.520	617.670	515.000
-0.145	617.571	617.716	515.593
-0.088	617.949	618.037	520.000
-0.032	618.293	618.325	524.008
-0.018	618.378	618.396	525.000

HORIZONTAL GEOMETRY

L=56.611
R=45.000
378.260
L=2.155
B=318°09'22"
L=56.115
R=75.000
434.375
L=14.317
B=1°51'30"
448.691
L=38.120
R=770.000
486.812
L=14.981
B=359°01'19"
501.793
L=51.756
R=160.000

SUPER ELEVATION

R6%
L-6%
R4%
L-4%
L6%
R-6%
L6%
R-6%
L5%
R-5%
L5% L5% L5%
R-5% R-5% R-5%
L4% L4% L4% L4% L4% L3%
R-4% R-4% R-4% R-4% R-4% R-3%
L3%
R-3%
L3%
R-3%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

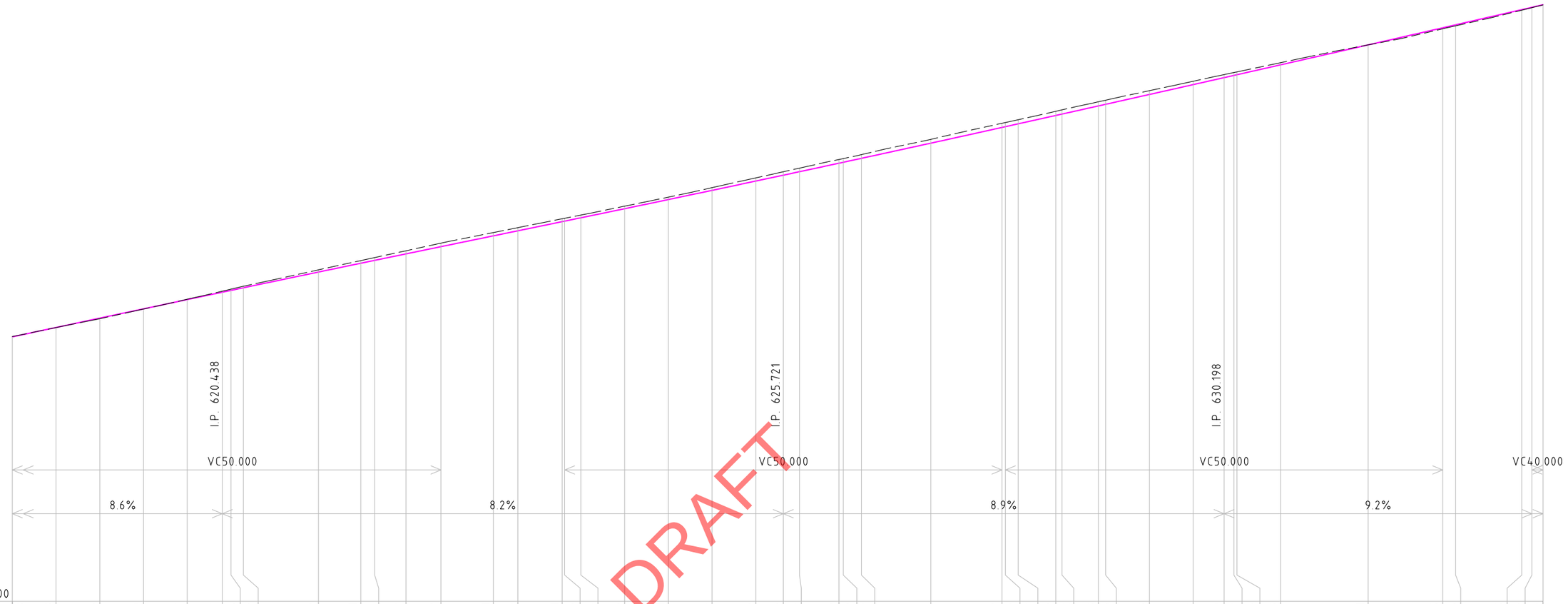
MC-01 LONGITUDINAL SHEET 3 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-202



CONTROL LINE CUT / FILL	-0.018	0.003	0.025	0.010	-0.017	-0.047	-0.056	-0.069	-0.100	-0.121	-0.127	-0.142
DESIGN SURFACE	618.378	618.806	619.232	619.657	620.079	620.417	620.500	620.619	621.337	621.739	621.871	622.167
EXISTING SURFACE	618.396	618.803	619.207	619.647	620.096	620.464	620.556	620.688	621.437	621.860	621.998	622.309
CHAINAGE	525.000	530.000	535.000	540.000	545.000	549.008	550.000	551.419	560.000	564.838	566.427	570.000

CONTROL LINE CUT / FILL	-0.159	-0.151	-0.144	-0.131	-0.130	-0.124	-0.116	-0.111	-0.124	-0.146	-0.156	-0.164
DESIGN SURFACE	622.498	622.991	623.222	623.639	623.662	623.815	624.230	624.648	625.069	625.493	625.762	625.921
EXISTING SURFACE	622.657	623.142	623.366	623.770	623.792	623.939	624.346	624.759	625.193	625.639	625.918	626.085
CHAINAGE	574.008	580.000	582.800	587.860	588.144	590.000	595.000	600.000	605.000	610.000	613.144	615.000

CONTROL LINE CUT / FILL	-0.170	-0.169	-0.167	-0.174	-0.189	-0.189	-0.187	-0.190	-0.192	-0.188	-0.189	-0.173
DESIGN SURFACE	626.309	626.352	626.532	627.223	627.942	627.977	628.107	628.489	628.552	628.925	628.999	629.448
EXISTING SURFACE	626.479	626.521	626.699	627.397	628.131	628.166	628.294	628.679	628.744	629.113	629.188	629.621
CHAINAGE	619.502	620.000	622.081	630.000	638.144	638.534	640.000	644.292	645.000	649.166	650.000	655.000

CONTROL LINE CUT / FILL	-0.154	-0.140	-0.132	-0.130	-0.098	-0.001	0.045	0.046	0.025	0.016	0.006
DESIGN SURFACE	629.897	630.216	630.318	630.349	630.801	631.711	632.493	632.627	633.322	633.429	633.545
EXISTING SURFACE	630.051	630.356	630.450	630.479	630.899	631.712	632.448	632.581	633.297	633.413	633.539
CHAINAGE	660.000	663.534	664.657	665.000	670.000	680.000	688.534	690.000	697.571	698.729	700.000

HORIZONTAL GEOMETRY

L=51.756
R=160.000
553.548
L=34.311
B=17°33'20"
587.860
L=31.643
R=155.000
619.502
L=24.790
B=29°15'08"
644.292
L=25.087
R=170.000
669.378
L=29.553
B=20°47'50"
L=18.371
698.940
R=115.000

SUPER ELEVATION

L3% R-3%
L2% L2% R-2% R-2%
L2% L1% R-2% R-1%
R-0% L0%
R1% R1% L-1% L-1%
R2% L-2%
R3% R3% L-3% L-3%
R2% L-2%
R0% L-0%
L2% L2% R-2% R-2%
L3% L4% R-3% R-4%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

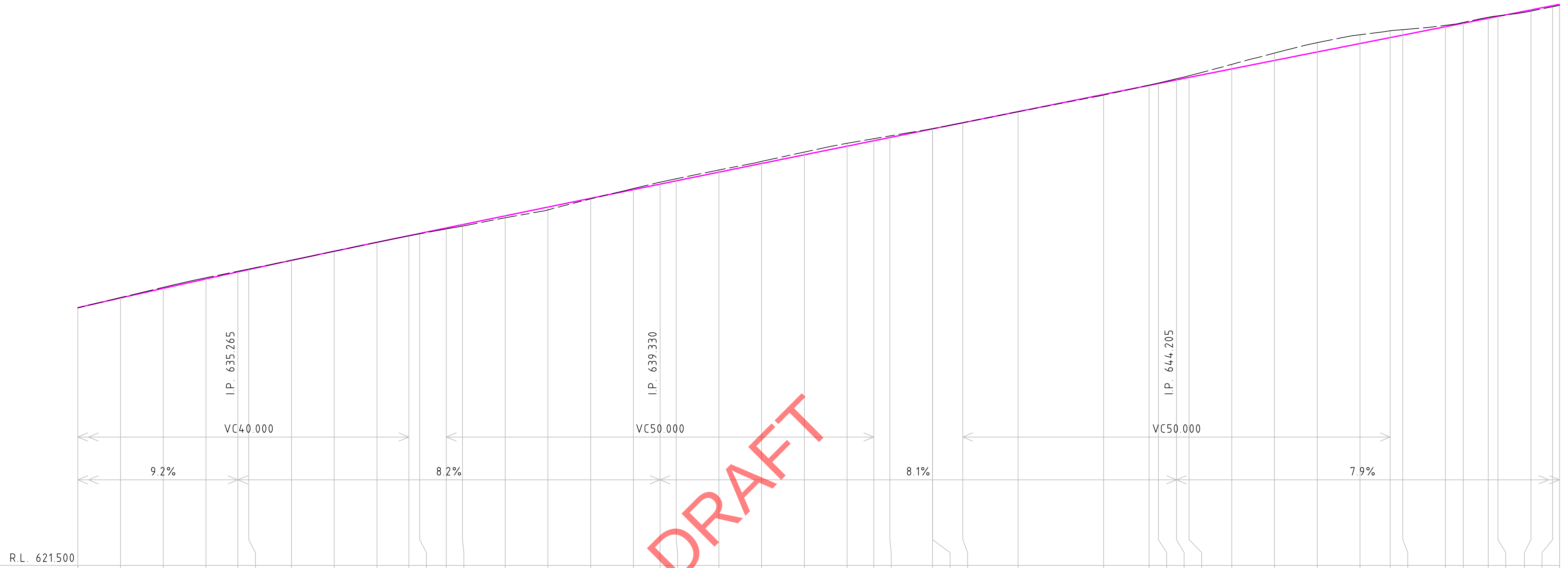
MC-01 LONGITUDINAL SHEET 4 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-203



CONTROL LINE CUT / FILL	0.006	-0.021	-0.048	-0.053	-0.033	-0.025	-0.008	0.001	0.000	0.008	0.019	0.045	0.068	0.092	0.130	0.025
DESIGN SURFACE	633.545	634.000	634.448	634.891	635.217	635.328	635.758	636.183	636.602	636.911	637.016	637.272	637.427	637.838	638.248	638.657
EXISTING SURFACE	633.539	634.021	634.496	634.944	635.250	635.353	635.766	636.182	636.602	636.903	636.997	637.227	637.359	637.746	638.118	638.632
CHAINAGE	700.000	705.000	710.000	715.000	718.729	720.000	725.000	730.000	735.000	738.729	740.000	743.115	745.000	750.000	755.000	760.000

CONTROL LINE CUT / FILL	-0.050	-0.093	-0.099	-0.101	-0.097	-0.130	-0.134	-0.098	-0.075	-0.014	-0.014	-0.005	0.005	0.026	-0.012
DESIGN SURFACE	639.066	639.320	639.473	639.880	640.286	640.691	641.096	641.347	641.500	641.902	641.903	642.188	642.709	643.511	643.937
EXISTING SURFACE	639.116	639.413	639.572	639.981	640.383	640.821	641.230	641.445	641.575	641.916	641.917	642.193	642.704	643.485	643.949
CHAINAGE	765.000	768.115	770.000	775.000	780.000	785.000	790.000	793.115	795.000	799.992	800.000	803.530	810.000	820.000	825.325

CONTROL LINE CUT / FILL	-0.024	-0.053	-0.077	-0.212	-0.344	-0.435	-0.413	-0.318	-0.256	-0.065	-0.038	-0.048	-0.029	0.055	0.051	0.050
DESIGN SURFACE	644.024	644.192	644.309	644.707	645.103	645.498	645.892	646.170	646.286	646.679	646.842	647.072	647.161	647.465	647.663	647.727
EXISTING SURFACE	644.048	644.245	644.386	644.919	645.447	645.933	646.305	646.488	646.542	646.744	646.880	647.120	647.190	647.410	647.612	647.677
CHAINAGE	826.415	828.530	830.000	835.000	840.000	845.000	850.000	853.530	855.000	860.000	862.079	865.000	866.142	870.000	872.525	873.340

HORIZONTAL GEOMETRY

SUPER ELEVATION

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

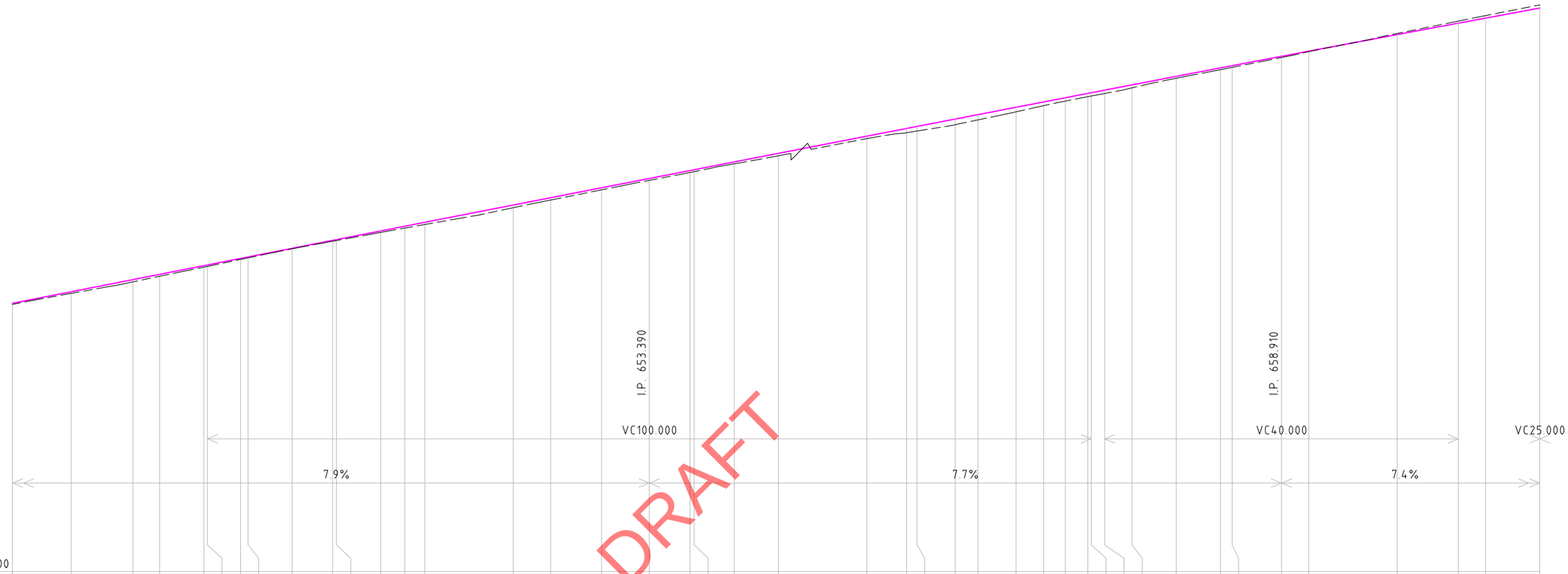
MC-01 LONGITUDINAL SHEET 5 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
A3
SCALES AS SHOWN
DRAWING NO.
1455-204



CONTROL LINE CUT / FILL	0.050	0.073	0.102	0.084	0.065	0.064	0.043	0.039	0.023	0.038	0.041	0.067	0.083	0.099	0.121	0.105	0.094	0.084	0.087	0.085	0.086	0.109
DESIGN SURFACE	647.727	648.251	648.798	649.036	649.429	649.460	649.755	649.822	650.215	650.573	650.607	650.999	651.213	651.390	652.172	652.502	652.952	653.372	653.731	653.767	654.120	654.508
EXISTING SURFACE	647.677	648.178	648.696	648.952	649.364	649.396	649.712	649.783	650.192	650.535	650.566	650.932	651.130	651.291	652.051	652.397	652.858	653.288	653.644	653.682	654.034	654.399
CHAINAGE	873.340	880.000	886.969	890.000	895.000	895.394	899.150	900.000	905.000	909.571	910.000	915.000	917.739	920.000	930.000	934.232	940.000	945.394	950.000	950.464	955.000	960.000

CONTROL LINE CUT / FILL	0.109	0.192	0.205	0.256	0.238	0.207	0.169	0.149	0.146	0.146	0.149	0.136	0.084	0.080	0.075	0.053	0.023	-0.050	-0.096	-0.114	-0.142
DESIGN SURFACE	655.285	655.633	655.724	656.059	656.259	656.592	656.833	657.023	657.219	657.249	657.366	657.604	657.988	658.370	658.471	658.895	659.128	659.879	660.394	660.623	661.078
EXISTING SURFACE	655.176	655.441	655.519	655.803	656.021	656.385	656.664	656.874	657.073	657.103	657.217	657.468	657.904	658.290	658.396	658.842	659.105	659.929	660.490	660.737	661.220
CHAINAGE	970.000	974.495	975.675	980.000	982.580	986.887	990.000	992.463	995.000	995.394	996.909	1000.000	1005.000	1010.000	1011.329	1016.909	1020.000	1030.000	1036.909	1040.000	1046.132

HORIZONTAL GEOMETRY
L=20.827
B=25°42'38"
886.969
L=30.770
R=130.000
917.739
L=32.725
B=39°16'19"
950.464 L=12.345 962.809
R=35.000
L=24.078
B=19°03'45"
986.887
L=24.451
R=70.000
1011.338
L=60.134
B=39°04'35"

SUPER ELEVATION
R1% L-1% R1% L3% R-3% L3% R-3% R0% L-0% R1% L-1% R3% L-3% R5% L-5% R6% L-6% R2% L-2% R0% L-0% L3% R-3% L4% R-4% L6% R-6% L5% R-5% L4% R-4% L3% R-3% R1% R1%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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"Take 5"

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REV	DATE	DESCRIPTION
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C	21/03/24	20% DESIGN SUBMISSION
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HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

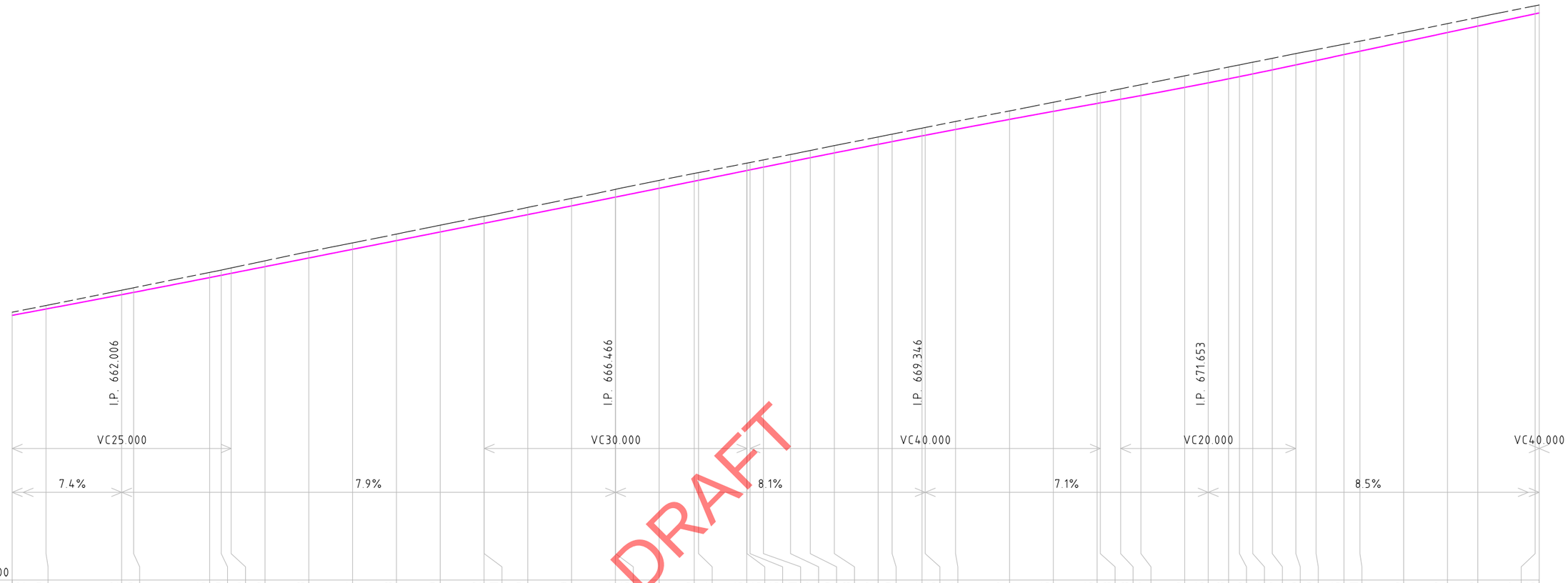
MC-01 LONGITUDINAL SHEET 6 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-205



CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
1046.132	-0.142	661.078	661.220
1050.000	-0.159	661.366	661.525
1058.632	-0.202	662.021	662.223
1060.000	-0.209	662.126	662.335
1068.673	-0.235	662.800	663.035
1070.000	-0.239	662.905	663.144
1071.132	-0.246	662.994	663.240
1075.000	-0.266	663.300	663.566
1080.000	-0.288	663.696	663.984
1085.000	-0.294	664.091	664.385
1090.000	-0.298	664.487	664.785
1095.000	-0.310	664.882	665.192
1100.000	-0.312	665.278	665.590
1100.025	-0.311	665.280	665.591
1105.000	-0.329	665.674	666.003
1110.000	-0.340	666.073	666.413
1115.000	-0.354	666.473	666.827
1115.025	-0.355	666.475	666.830
1120.000	-0.360	666.876	667.236
1124.004	-0.356	667.199	667.555
1124.499	-0.354	667.240	667.594
1130.000	-0.335	667.687	668.022
1130.025	-0.335	667.689	668.024
1130.371	-0.335	667.717	668.052
1131.909	-0.331	667.842	668.173
1135.000	-0.327	668.091	668.418
1137.244	-0.329	668.271	668.600
1140.000	-0.333	668.490	668.823
1145.000	-0.337	668.882	669.219
1146.590	-0.340	669.005	669.345
1150.000	-0.354	669.267	669.621
1150.371	-0.355	669.296	669.651
1153.836	-0.364	669.559	669.923
1160.000	-0.387	670.020	670.407
1165.000	-0.415	670.387	670.802
1170.000	-0.455	670.747	671.202
1170.371	-0.458	670.774	671.232
1172.682	-0.478	670.939	671.417
1175.000	-0.497	671.106	671.603
1180.000	-0.526	671.480	672.006
1182.682	-0.535	671.688	672.223
1185.000	-0.538	671.871	672.409
1186.249	-0.536	671.972	672.508
1187.767	-0.534	672.095	672.629
1190.000	-0.527	672.280	672.807
1192.682	-0.516	672.506	673.022
1195.000	-0.499	672.704	673.203
1198.178	-0.475	672.975	673.450
1200.000	-0.461	673.131	673.592
1205.000	-0.426	673.558	673.984
1210.000	-0.407	673.984	674.391
1213.467	-0.396	674.280	674.676
1220.000	-0.367	674.838	675.205
1220.469	-0.365	674.878	675.243

HORIZONTAL GEOMETRY

L=60.134
B=39°04'35"
1071.472
L=53.026
R=95.000
1124.499
L=7.411
B=37°05'44"
1131.909
L=21.927
R=275.000
1153.836
L=8.502
B=11°39'50"
1162.338
L=49.158
R=300.000
1211.496
L=110.667
B=21°03'09"

SUPER ELEVATION

R0% R1% R2% R3% R4% R5% R4% R3% R3% R3% R2% R1% R1% R1% R-0% R1% R1% R1% R-2% B-0%
L-0% L-1% L-2% L-3% L-4% L-5% L-4% L-3% L-3% L-3% L-2% L-1% L-1% L-1% L0%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

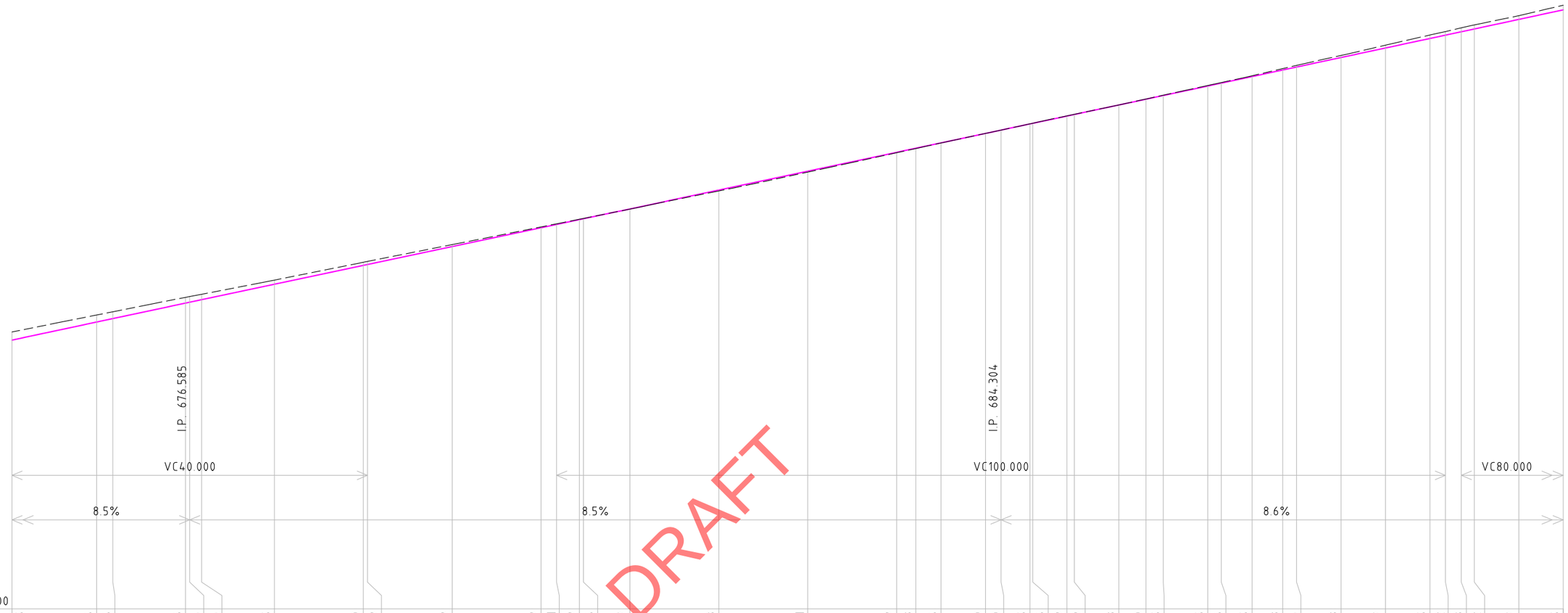
MC-01 LONGITUDINAL SHEET 7 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-206



CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
1220.469	-0.365	674.878	675.243
1230.000	-0.316	675.691	676.007
1231.813	-0.306	675.845	676.151
1240.000	-0.256	676.542	676.798
1240.469	-0.254	676.581	676.835
1241.811	-0.244	676.695	676.939
1250.000	-0.185	677.390	677.575
1260.000	-0.140	678.237	678.377
1260.469	-0.139	678.277	678.416
1270.000	-0.089	679.083	679.172
1280.000	-0.039	679.928	679.967
1281.747	-0.031	680.076	680.107
1284.319	-0.019	680.294	680.313
1284.767	-0.016	680.332	680.348
1290.000	0.007	680.774	680.767
1300.000	0.038	681.621	681.583
1310.000	0.041	682.470	682.429
1320.000	0.019	683.319	683.300
1322.164	0.013	683.503	683.490
1325.000	0.006	683.744	683.738
1330.000	0.000	684.169	684.169
1331.747	0.000	684.318	684.318
1335.000	-0.005	684.594	684.599
1335.320	-0.006	684.622	684.628
1339.165	-0.009	684.949	684.958
1340.000	-0.009	685.020	685.029
1345.000	-0.003	685.446	685.449
1348.046	-0.010	685.706	685.716
1350.000	-0.015	685.872	685.887
1355.000	-0.025	686.299	686.324
1356.529	-0.026	686.430	686.456
1360.000	-0.035	686.726	686.761
1363.437	-0.063	687.019	687.082
1365.000	-0.074	687.153	687.227
1370.000	-0.093	687.580	687.673
1375.000	-0.127	688.008	688.135
1380.000	-0.155	688.436	688.591
1381.747	-0.162	688.585	688.747
1383.523	-0.178	688.737	688.915
1385.000	-0.182	688.864	689.046
1390.000	-0.167	689.293	689.460
1395.000	-0.205	689.724	689.929

HORIZONTAL GEOMETRY

L=110.667
B=21°03'09"
1322.164
L=34.366
R=250.000
1356.529
1363.437
L=6.907
B=28°55'42"
L=62.225
R=75.000

SUPER ELEVATION

R=0%
R=2%
R-3%
R-2%
L-2%
L-3%
L-3%
L-3%
R=1%
R=2%
L1%
L2%
R-2%
R-2%
L2%
L2%
L3%
L3%
L3%
L3%
R-2%
R-2%
R-3%
R-3%
R-3%
R-3%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

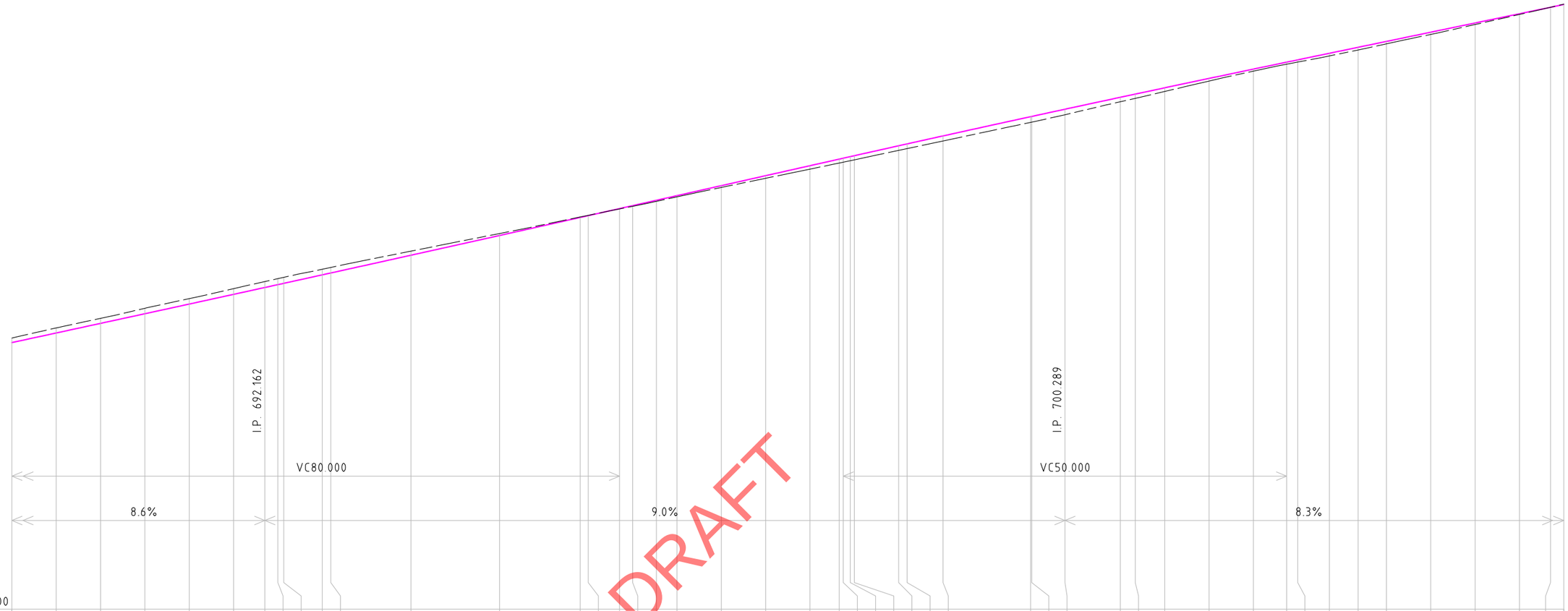
MC-01 LONGITUDINAL SHEET 8 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
A3
SCALES AS SHOWN
DRAWING NO.
1455-207



CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
1395.000	-0.205	689.724	689.929
1400.000	-0.227	690.156	690.383
1405.000	-0.227	690.589	690.816
1410.000	-0.247	691.024	691.271
1415.000	-0.244	691.460	691.704
1420.000	-0.258	691.898	692.156
1423.523	-0.268	692.207	692.475
1425.000	-0.270	692.337	692.607
1425.662	-0.271	692.395	**692.666**
1430.000	-0.253	692.777	693.030
1430.965	-0.250	692.862	693.112
1440.000	-0.184	693.662	693.846
1450.000	-0.089	694.552	694.641
1459.091	-0.021	695.366	**695.387**
1460.000	-0.014	695.448	695.462
1463.523	0.015	695.765	695.750
1465.000	0.030	695.898	695.868
1467.676	0.048	696.139	696.091
1470.000	0.057	696.349	696.292
1475.000	0.080	696.799	696.719
1480.000	0.117	697.249	697.132
1485.000	0.156	697.700	697.544
1488.295	0.177	697.996	697.819
1488.750	0.180	698.037	697.857
1489.543	0.184	698.109	697.925
1490.000	0.186	698.150	697.964
1495.000	0.208	698.598	698.390
1495.953	0.212	698.683	**698.471**
1500.000	0.228	699.042	698.814
1509.883	0.258	699.910	699.652
1510.000	0.258	699.920	699.662
1513.750	0.250	700.246	699.996
1520.000	0.202	700.785	700.583
1521.681	0.193	700.929	**700.736**
1525.000	0.165	701.212	701.047
1530.000	0.119	701.635	701.516
1535.000	0.093	702.055	701.962
1538.750	0.092	702.368	702.276
1540.000	0.099	702.472	702.373
1543.570	0.118	702.769	**702.651**
1546.802	0.121	703.038	**702.917**
1550.000	0.111	703.304	703.193
1555.000	0.099	703.719	703.620
1560.000	0.070	704.135	704.065
1565.000	0.031	704.551	704.520
1568.500	-0.002	704.842	704.844
1570.000	-0.020	704.967	704.987

HORIZONTAL GEOMETRY

L=62.225 R=75.000 | 1425.662 | L=33.430 B=76°27'54" | 1459.091 | L=36.862 R=225.000 | 1495.953 | L=25.728 B=67°04'42" | 1521.681 | L=21.889 R=515.000 | 1543.570 | L=3.232 B=69°56'02" | 1546.802 | L=92.545 R=520.000

SUPER ELEVATION

L3% R-3% L2% R-2% R1% L-1% R1% R-1% R2% L-2% R0% L-2% R-1% L-2% R-2% L-3% R-2% L-3% R-3% L-3% R-3%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500

VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

CHECKED: DESIGNER DATE:

CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:

CHECKED: CLIENT REPRESENTATIVE DATE:

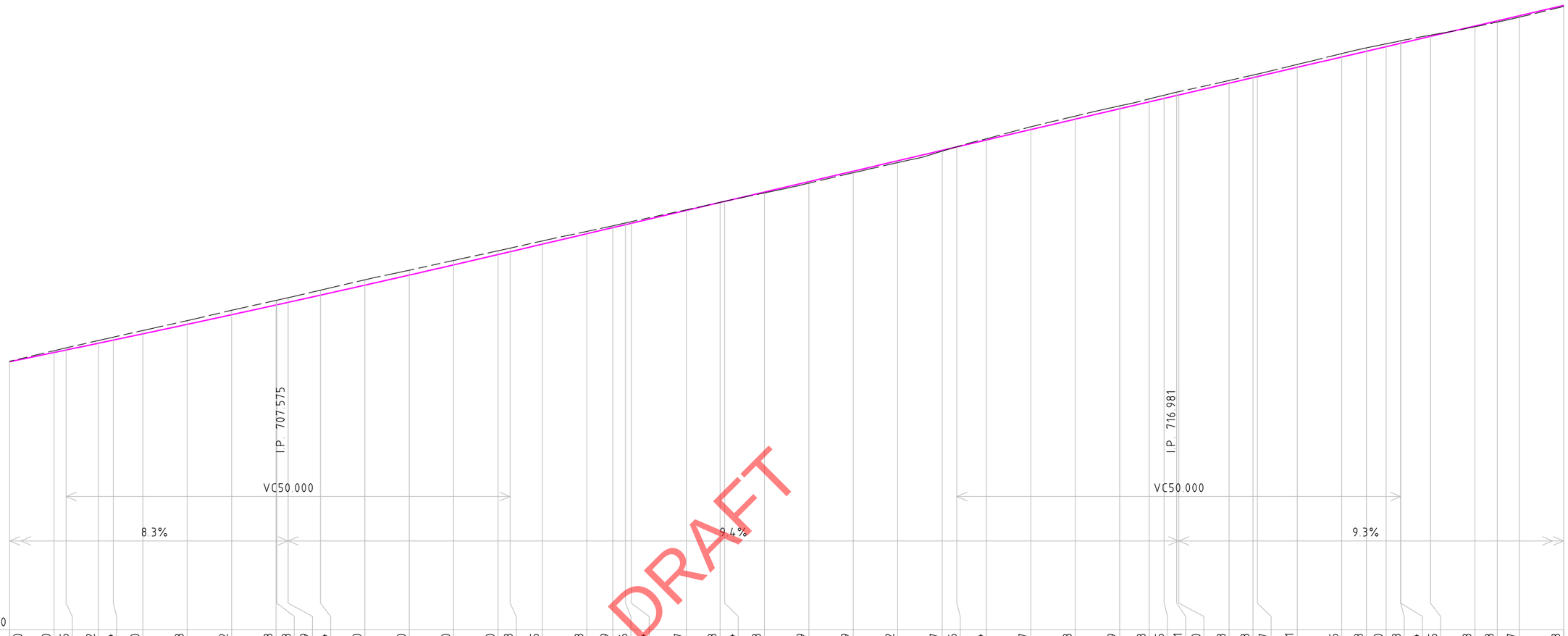
MC-01 LONGITUDINAL SHEET 9 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D. | SCALES AS SHOWN | DRAWING NO. | A3 | 1455-208



CONTROL LINE CUT / FILL	-0.020	-0.080	-0.095	-0.122	-0.134	-0.150	-0.168	-0.202	-0.208	-0.208	-0.209
DESIGN SURFACE	704.967	705.383	705.496	705.800	705.941	706.222	706.650	707.083	707.521	707.528	707.641
EXISTING SURFACE	704.987	705.463	705.591	705.922	706.075	706.372	706.818	707.285	707.729	707.736	707.850
CHAINAGE	1570.000	1575.000	1576.363	1580.000	1581.678	1585.000	1590.000	1595.000	1600.000	1600.076	1601.363

CONTROL LINE CUT / FILL	-0.224	-0.240	-0.220	-0.200	-0.170	-0.163	-0.145	-0.103	-0.079	-0.076	-0.074
DESIGN SURFACE	707.964	708.413	708.867	709.327	709.792	709.919	710.261	710.730	711.003	711.137	711.198
EXISTING SURFACE	708.188	708.653	709.087	709.527	709.962	710.082	710.406	710.833	711.082	711.213	711.272
CHAINAGE	1605.000	1610.000	1615.000	1620.000	1625.000	1626.363	1630.000	1635.000	1637.915	1639.347	1640.000

CONTROL LINE CUT / FILL	-0.027	-0.008	-0.004	0.038	0.069	0.069	0.082	0.037	-0.006	-0.054	-0.127
DESIGN SURFACE	711.780	712.136	712.185	712.605	713.074	713.543	714.012	714.481	714.636	714.950	715.418
EXISTING SURFACE	711.807	712.144	712.189	712.567	713.005	713.474	713.930	714.444	714.642	715.004	715.545
CHAINAGE	1646.202	1650.000	1650.518	1655.000	1660.000	1665.000	1670.000	1675.000	1676.656	1680.000	1685.000

CONTROL LINE CUT / FILL	-0.138	-0.129	-0.133	-0.145	-0.151	-0.150	-0.123	-0.118	-0.117	-0.131	-0.155
DESIGN SURFACE	715.886	716.354	716.665	716.821	716.954	716.975	717.504	717.753	717.801	718.219	718.684
EXISTING SURFACE	716.024	716.483	716.798	716.966	717.105	717.125	717.627	717.871	717.918	718.350	718.839
CHAINAGE	1690.000	1695.000	1698.331	1700.000	1701.426	1701.656	1707.327	1710.000	1710.509	1715.000	1720.000

CONTROL LINE CUT / FILL	-0.153	-0.130	-0.113	-0.114	-0.055	0.033	0.058	0.067	0.048
DESIGN SURFACE	718.944	719.149	719.300	719.302	719.613	720.077	720.312	720.542	721.006
EXISTING SURFACE	719.097	719.279	719.413	719.416	719.668	720.044	720.254	720.475	720.958
CHAINAGE	1722.794	1725.000	1726.627	1726.656	1730.000	1735.000	1737.522	1740.000	1745.000

HORIZONTAL GEOMETRY

L=92.545
R=520.000
1639.347
L=11.171
B=59°18'59"
1650.518
L=50.907
R=70.000
1701.426
L=9.084
B=100°59'0"
1710.509
L=35.211
R=35.000

SUPER ELEVATION

R-3% L-3%
R-3% L-2%
R-1% R-0% R-4% L1% L2% R-5% L3% L3% L4% R-5% R-5% R-5% L5% L6% R-6% R-6%
L4% R-4% L3% L2% R-3% R-2% R1% R2% R4% R6% L-1% L-2% L-4% L-6%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
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HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

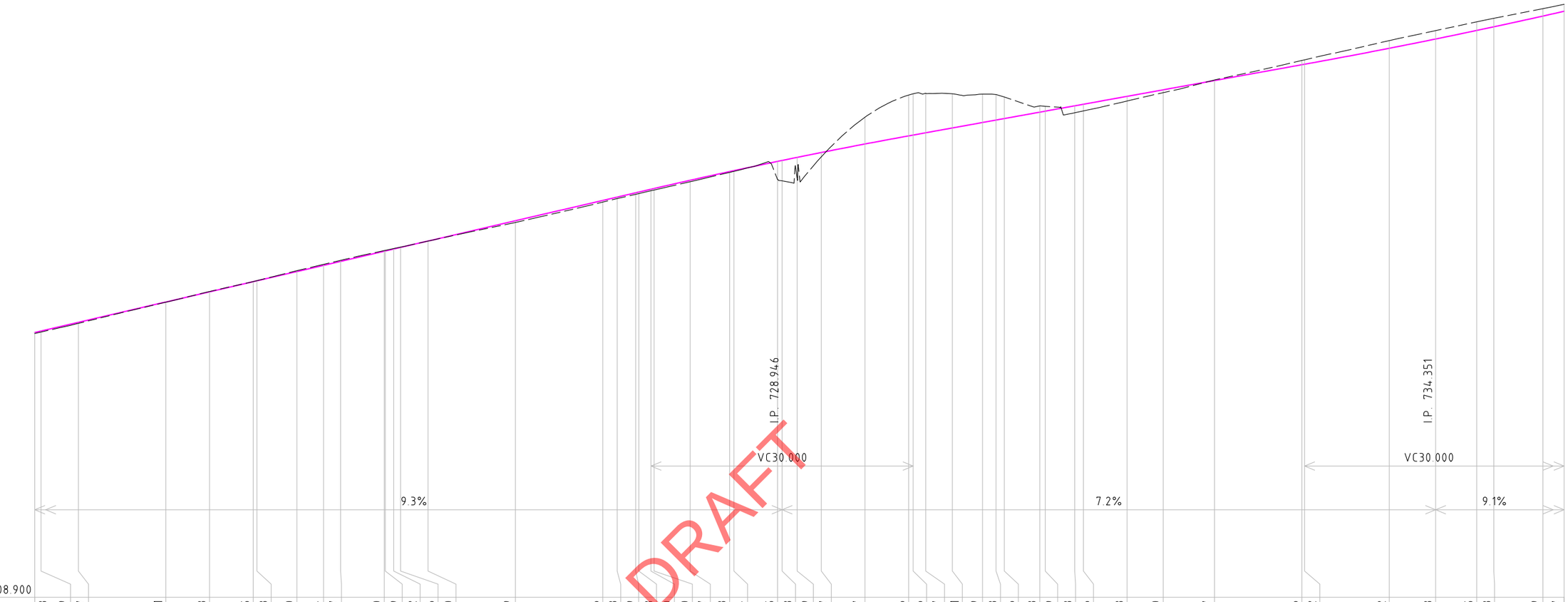
MC-01 LONGITUDINAL SHEET 10 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-209



CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
1745.000	0.048	721.006	720.958
1745.721	0.049	721.073	721.024
1750.000	0.047	721.470	721.423
1760.000	0.011	722.399	722.388
1765.004	-0.018	722.863	722.881
1770.000	-0.005	723.327	723.332
1770.418	-0.008	723.366	723.374
1775.000	-0.040	723.792	723.832
1778.043	-0.044	724.074	724.118
1780.000	-0.047	724.256	724.303
1785.000	-0.030	724.720	724.750
1785.109	-0.029	724.730	724.759
1786.081	-0.022	724.820	724.842
1786.864	-0.016	724.893	724.909
1790.000	0.000	725.184	725.184
1800.000	0.079	726.113	726.034
1810.000	0.076	727.041	726.965
1811.642	0.068	727.194	727.126
1813.760	0.069	727.391	727.322
1814.124	0.068	727.424	727.356
1815.515	0.070	727.554	727.484
1815.867	0.070	727.586	727.516
1820.000	0.067	727.963	727.896
1824.520	0.038	728.362	728.324
1825.000	0.034	728.403	728.369
1830.000	0.835	728.827	727.992
1830.515	0.933	728.869	727.936
1832.246	0.969	729.011	728.042
1835.000	0.197	729.233	729.036
1840.000	-1.227	729.621	730.848
1845.000	-1.866	729.993	731.859
1845.515	-1.886	730.030	731.916
1846.952	-1.807	730.134	731.941
1850.000	-1.561	730.355	731.916
1853.452	-1.299	730.604	731.903
1855.000	-1.168	730.716	731.884
1855.948	-0.986	730.784	731.770
1860.000	-0.288	731.077	731.365
1860.629	-0.219	731.123	731.342
1864.009	0.318	731.367	731.049
1865.000	0.306	731.439	731.133
1870.000	0.213	731.800	731.587
1874.129	0.130	732.098	731.968
1880.000	-0.027	732.523	732.550
1890.000	-0.196	733.245	733.441
1890.302	-0.202	733.267	733.469
1900.000	-0.352	733.997	734.349
1905.302	-0.383	734.421	734.804
1910.000	-0.395	734.811	735.206
1911.961	-0.388	734.978	735.366
1917.582	-0.339	735.470	735.809
1920.000	-0.317	735.688	736.005

HORIZONTAL GEOMETRY

1745.721 L=3.721 R=35.000
L=24.697 B=43°20'35"
1770.418
L=16.446 R=80.000
1786.864
L=24.778 B=31°33'52"
1811.642 L=2.117 1813.760 R=125.000
L=10.760 B=32°32'04"
1824.520
L=31.428 R=25.000
1855.948 B=8°30'28"
L=4.681
1860.629
L=13.500 R=35.000
1874.129
L=53.957 B=342°36'29"

SUPER ELEVATION

R6% L-6% R6% L-6% R6% L-6% R6% L-6% R6% L-6% R6% L-6% R6% L-6% R6% L-6% R6% L-6%
R5% L-5% R4% L-4% R2% L-2% R1% L-1% R0% L0% L2% R-2% L4% R-4% L5% R-5% L6% R-6% L5% R-5% L4% R-4% L3% R-3% L3% R-3% L4% R-4% L4% R-4% L5% R-5%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

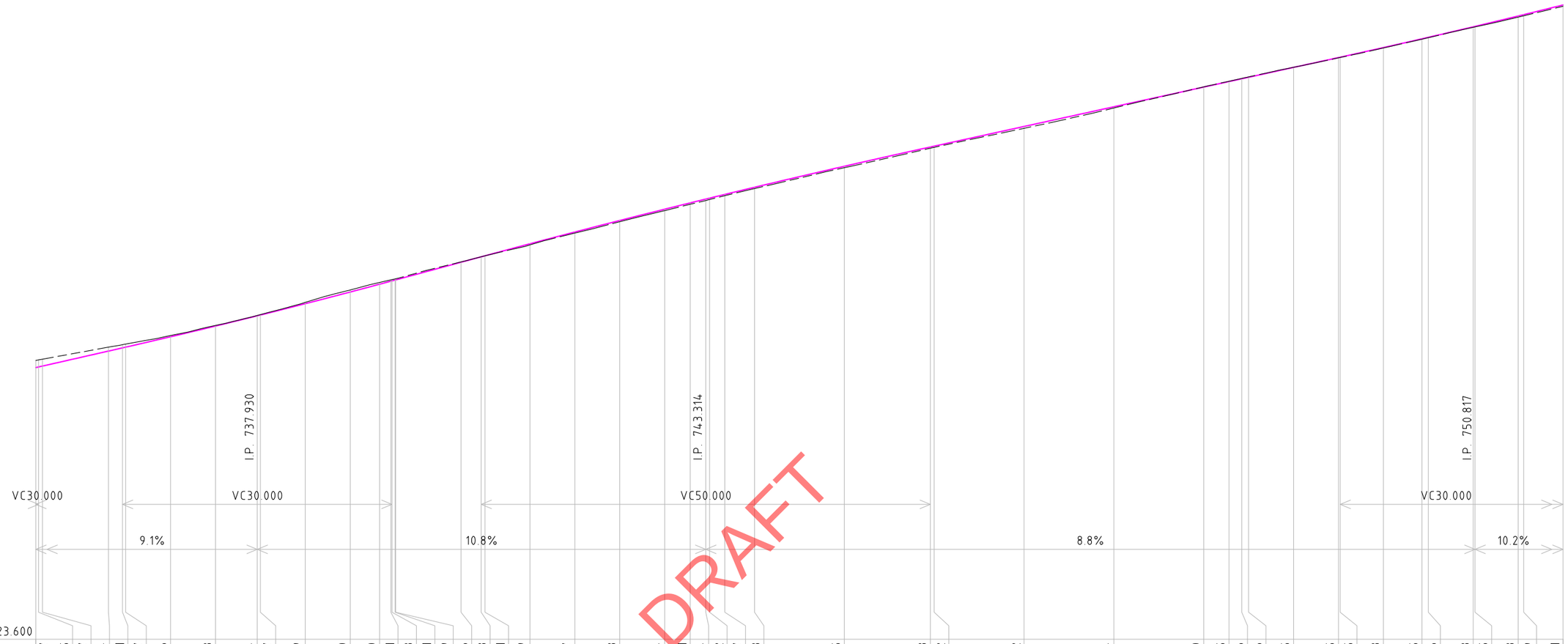
MC-01 LONGITUDINAL SHEET 11 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-210



CONTROL LINE CUT / FILL	-0.317	-0.315	-0.307	-0.174	-0.141	-0.137	-0.056	-0.028	-0.014	-0.017	-0.059	-0.090	-0.080	-0.061	-0.058	-0.051	-0.049
DESIGN SURFACE	735.688	735.715	735.755	736.423	736.566	736.597	737.060	737.537	737.993	738.028	738.533	739.052	739.399	739.533	739.548	739.585	739.592
EXISTING SURFACE	736.005	736.030	736.062	736.597	736.707	736.734	737.116	737.565	738.007	738.045	738.592	739.142	739.479	739.594	739.606	739.636	739.641
CHAINAGE	1920.000	1920.302	1920.743	1928.086	1929.652	1930.000	1935.000	1940.000	1944.652	1945.000	1950.000	1955.000	1958.269	1959.518	1959.652	1960.000	1960.059

CONTROL LINE CUT / FILL	-0.016	-0.003	0.001	0.049	0.047	0.053	0.064	0.061	0.064	0.062	0.057	0.058	0.065	0.053	0.052	0.082	0.054
DESIGN SURFACE	740.376	740.618	740.664	741.197	741.721	742.234	742.737	743.018	743.188	743.230	743.394	743.713	744.648	745.505	745.543	746.419	747.295
EXISTING SURFACE	740.392	740.621	740.663	741.148	741.674	742.181	742.673	742.957	743.124	743.168	743.337	743.655	744.583	745.452	745.491	746.337	747.241
CHAINAGE	1967.327	1969.571	1970.000	1975.000	1980.000	1985.000	1990.000	1992.843	1994.571	1995.000	1996.687	2000.000	2010.000	2019.571	2020.000	2030.000	2040.000

CONTROL LINE CUT / FILL	-0.010	-0.015	-0.016	-0.016	-0.005	0.015	0.015	0.018	0.015	0.016	0.023	0.025	0.048	0.049	0.061
DESIGN SURFACE	748.171	748.418	748.543	748.610	749.048	749.486	749.503	749.930	750.320	750.386	750.854	750.872	751.334	751.395	751.827
EXISTING SURFACE	748.181	748.433	748.559	748.626	749.053	749.471	749.488	749.912	750.305	750.370	750.831	750.847	751.286	751.346	751.766
CHAINAGE	2050.000	2052.818	2054.239	2055.000	2060.000	2065.000	2065.193	2070.000	2074.290	2075.000	2080.000	2080.193	2085.000	2085.617	2090.000

HORIZONTAL GEOMETRY
L=53.957
B=342°36'29"
1928.086
L=31.972
R=25.000
1960.059
1967.327
L=7.268
B=55°53'00"
L=29.360
R=45.000
1996.687
L=56.132
B=93°15'55"
2052.818
L=32.799
R=50.000
L=24.827
2085.617
B=[illegible]40'50"

SUPER ELEVATION
L5%
R-5%
L6%
R-6%
L5%
R-5%
L3%
R-3%
R1%
L1%
R1%
L-1%
R4%
L-4%
R6%
L-6%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
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A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

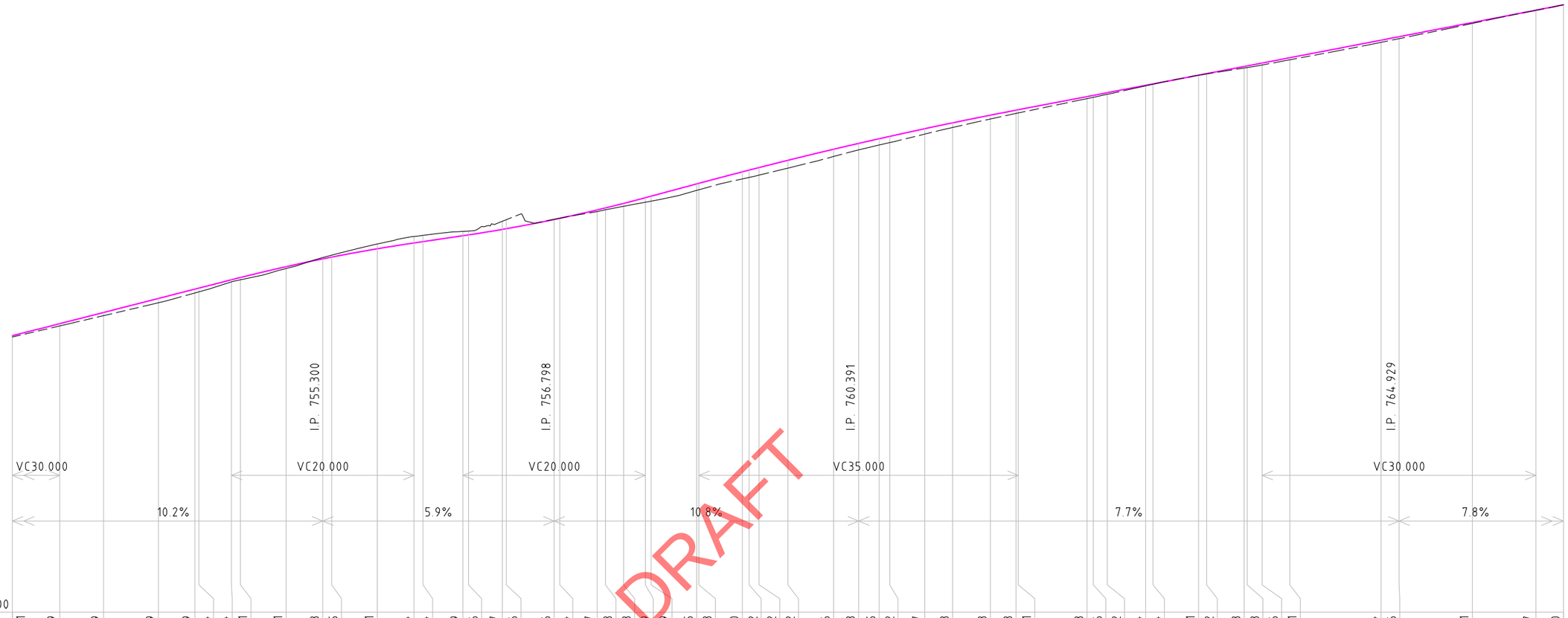
MC-01 LONGITUDINAL SHEET 12 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-211



DRAFT

CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
2090.000	0.061	751.827	751.766
2095.193	0.099	752.352	752.253
2100.000	0.139	752.843	752.704
2106.015	0.189	753.459	753.270
2110.000	0.169	753.867	753.698
2110.444	0.164	753.912	753.748
2114.014	0.094	754.277	754.183
2115.000	0.101	754.377	754.276
2120.000	0.081	754.851	754.770
2124.014	-0.058	755.192	755.250
2125.000	-0.085	755.271	755.356
2130.000	-0.211	755.636	755.847
2134.014	-0.284	755.891	756.175
2135.000	-0.274	755.949	756.223
2139.372	-0.189	756.207	756.396
2140.000	-0.166	756.245	756.411
2143.698	-0.357	756.486	756.843
2144.130	-0.396	756.516	756.912
2149.372	-0.006	756.919	756.925
2150.000	-0.004	756.972	756.976
2154.097	0.077	757.341	757.264
2155.000	0.083	757.427	757.344
2156.995	0.128	757.626	757.498
2159.372	0.199	757.875	757.676
2160.000	0.219	757.942	757.723
2165.000	0.285	758.481	758.196
2165.244	0.283	758.507	758.224
2170.000	0.310	759.009	758.699
2170.747	0.322	759.086	758.764
2171.829	0.332	759.197	758.865
2175.000	0.342	759.515	759.173
2180.000	0.316	759.999	759.683
2182.744	0.283	760.255	759.972
2185.000	0.275	760.461	760.186
2186.165	0.272	760.565	760.293
2190.000	0.237	760.901	760.664
2193.048	0.203	761.158	760.955
2197.186	0.168	761.494	761.326
2200.000	0.143	761.713	761.570
2200.244	0.141	761.732	761.591
2207.778	0.088	762.309	762.221
2208.461	0.086	762.362	762.276
2210.000	0.072	762.480	762.408
2214.203	0.024	762.802	762.778
2215.000	0.014	762.863	762.849
2220.000	0.001	763.246	763.245
2220.889	0.012	763.314	763.302
2225.000	0.068	763.629	763.561
2225.339	0.073	763.655	763.582
2226.967	0.086	763.780	763.694
2230.000	0.091	764.012	763.921
2240.000	0.094	764.782	764.688
2241.967	0.086	764.934	764.848
2250.000	0.041	765.556	765.515
2256.967	0.007	766.097	766.090
2260.000	0.000	766.333	766.333

HORIZONTAL GEOMETRY

L=24.827 B=55°40'50"
2110.444
L=33.686 R=15.000
2144.130
L=9.966 B=287°00'33"
2154.097
L=32.068 R=50.000
2186.165
L=21.614 B=323°45'23"
2207.778
L=17.560 R=70.000
2225.339
L=58.752 B=309°23'00"

SUPER ELEVATION

R6% L-6% R6% L-6% R4% L-4% R2% L-2% R1% L1% L3% L4% L5% R3% R4% R5% L6% R-6% L5% L4% R-5% R-4% L3% R-3% L2% R-2% R-1% L1% R0% L-0% R3% L3% R5% L5% R6% L-6% R6% R5% L-6% L-5% R3% L-3% R1% L-1% R-0% L0%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

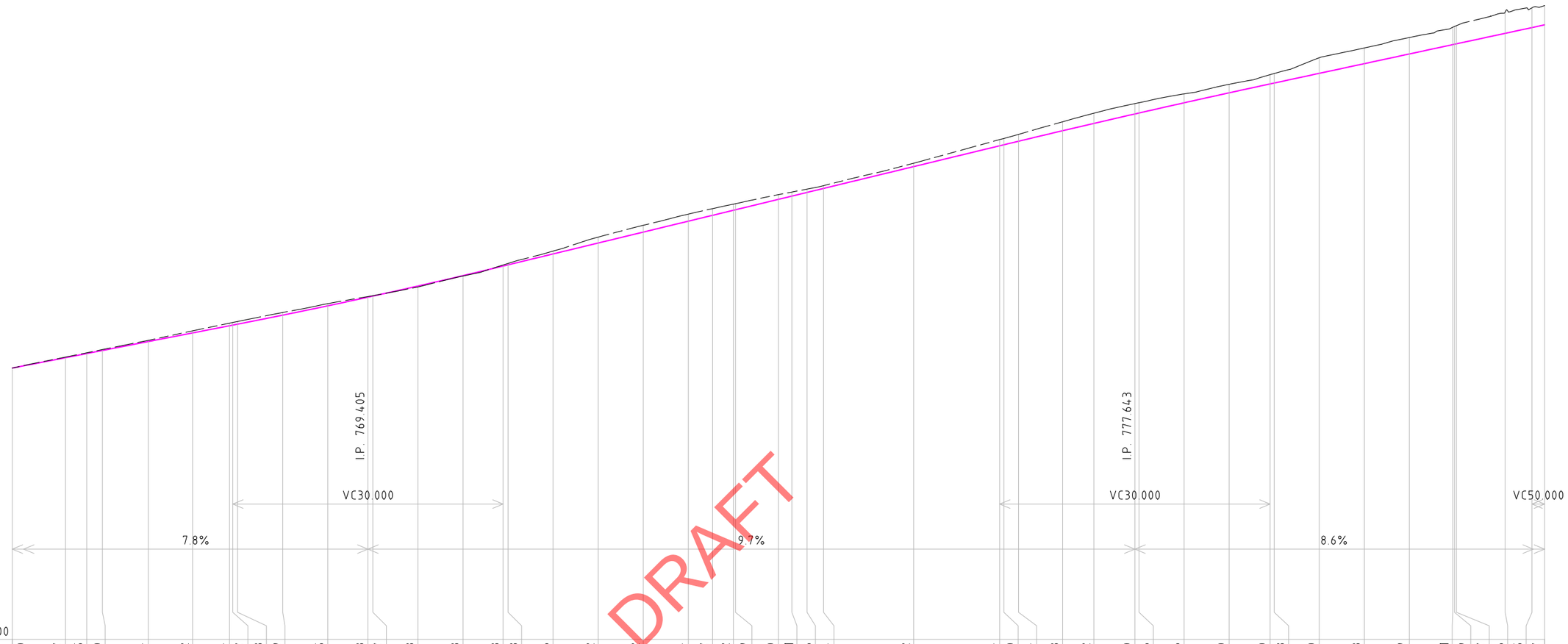
MC-01 LONGITUDINAL SHEET 13 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-212



CONTROL LINE CUT / FILL	0.000	-0.027	-0.035	-0.040	-0.054	-0.092	-0.114	-0.117	-0.118	-0.119	-0.095	-0.028	-0.017
DESIGN SURFACE	766.333	766.793	766.976	767.112	767.508	767.890	768.209	768.237	768.280	768.678	769.093	769.476	769.524
EXISTING SURFACE	766.333	766.820	767.011	767.152	767.562	767.982	768.323	768.354	768.398	768.797	769.188	769.504	769.541
CHAINAGE	2260.000	2265.904	2268.259	2270.000	2275.089	2280.000	2284.091	2284.455	2285.000	2290.000	2295.000	2299.455	2300.000

CONTROL LINE CUT / FILL	0.043	0.018	-0.048	-0.063	-0.126	-0.262	-0.302	-0.314	-0.297	-0.272	-0.269	-0.210
DESIGN SURFACE	769.970	770.432	770.857	770.910	771.394	771.878	772.362	772.847	773.107	773.331	773.353	773.815
EXISTING SURFACE	769.927	770.414	770.905	770.973	771.520	772.140	772.664	773.161	773.404	773.603	773.622	774.025
CHAINAGE	2305.000	2310.000	2314.455	2315.000	2320.000	2325.000	2330.000	2335.000	2337.689	2340.000	2340.232	2345.000

CONTROL LINE CUT / FILL	-0.181	-0.146	-0.124	-0.152	-0.274	-0.280	-0.304	-0.398	-0.452	-0.460	-0.456	-0.396
DESIGN SURFACE	773.959	774.122	774.299	775.267	776.191	776.235	776.393	776.858	777.184	777.603	777.645	778.097
EXISTING SURFACE	774.140	774.268	774.423	775.419	776.465	776.515	776.697	777.256	777.636	778.063	778.101	778.493
CHAINAGE	2346.485	2348.173	2350.000	2360.000	2369.542	2370.000	2371.633	2376.525	2380.000	2384.542	2385.000	2390.000

CONTROL LINE CUT / FILL	-0.380	-0.410	-0.423	-0.690	-0.698	-0.729	-0.771	-0.789	-0.807	-0.946	-0.875	-0.857
DESIGN SURFACE	778.539	778.934	778.973	779.404	779.834	780.264	780.678	780.694	780.712	781.178	781.434	781.554
EXISTING SURFACE	778.919	779.344	779.396	780.094	780.532	780.993	781.449	781.483	781.519	782.124	782.309	782.411
CHAINAGE	2395.000	2399.542	2400.000	2405.000	2410.000	2415.000	2419.812	2420.000	2420.213	2425.625	2428.596	2430.000

HORIZONTAL GEOMETRY
L=58.752
B=309°23'00"
2284.091
L=62.394
R=27.500
2346.485
L=30.040
B=79°22'49"
2376.525
L=43.687
R=18.000
2420.213
L=34.066
B=300°19'11"

SUPER ELEVATION
R1% L1%
L2% R-2%
L3% R-3%
L3% R-3%
L4% R-4%
L5% R-5%
L6% R-6%
L5% R-5%
L5% R-5%
R-1% L1%
R3% L-3%
R3% L-3%
R4% L-4%
R6% L-6%
R6% L-6%
R4% L-4%
R3% L-3%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
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A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

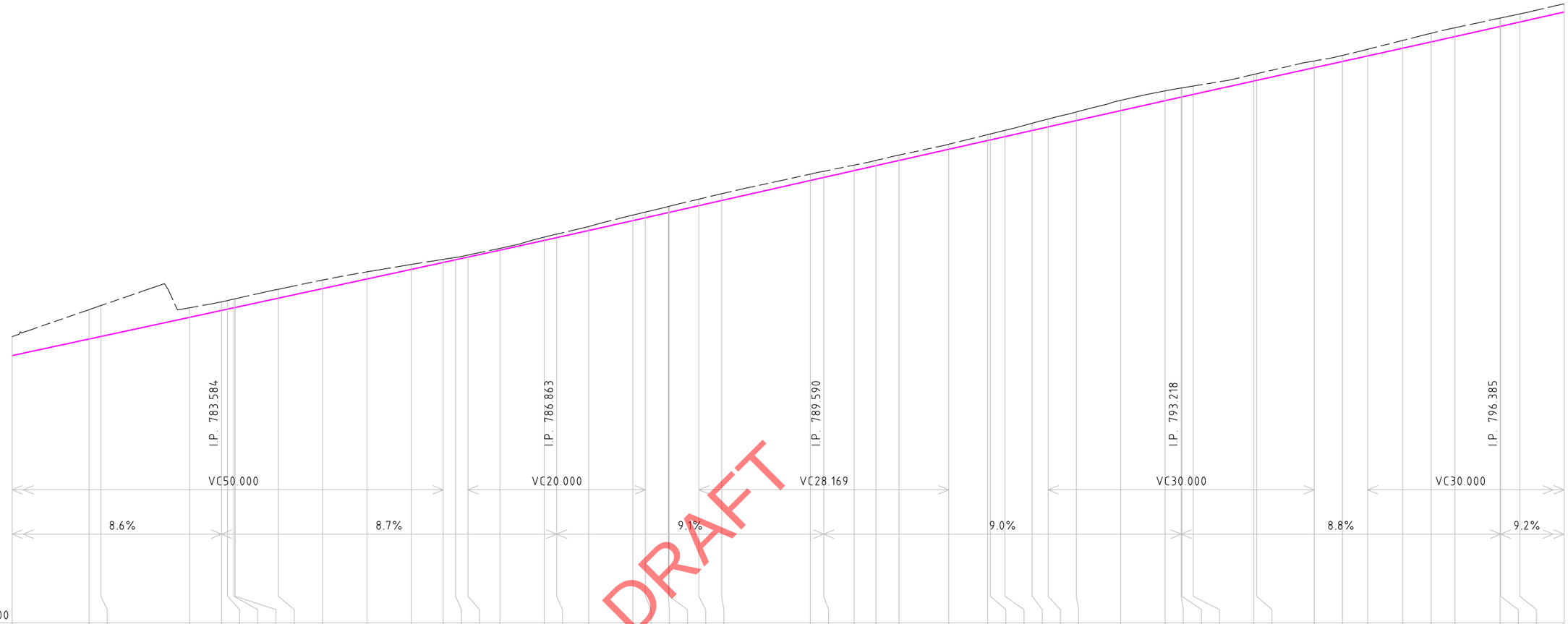
MC-01 LONGITUDINAL SHEET 14 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-213



CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
2430.000	-0.857	781.554	782.411
2438.672	-1.325	782.301	783.626
2440.000	-1.393	782.416	783.809
2450.000	-0.432	783.278	783.710
2453.596	-0.385	783.589	783.974
2454.279	-0.388	783.648	784.036
2455.000	-0.393	783.710	784.103
2455.140	-0.393	783.722	784.115
2460.000	-0.402	784.142	784.544
2465.000	-0.388	784.575	784.963
2470.000	-0.320	785.008	785.328
2475.000	-0.222	785.441	785.663
2478.596	-0.140	785.753	785.893
2480.000	-0.103	785.875	785.978
2481.394	-0.092	785.996	786.088
2485.000	-0.078	786.310	786.388
2490.000	-0.147	786.749	786.896
2491.394	-0.159	786.872	787.031
2495.000	-0.180	787.193	787.373
2500.000	-0.248	787.642	787.890
2501.394	-0.257	787.768	788.025
2504.002	-0.274	788.004	788.278
2504.078	-0.274	788.011	788.285
2507.433	-0.294	788.315	788.609
2510.000	-0.306	788.547	788.853
2520.000	-0.287	789.451	789.738
2521.517	-0.277	789.588	789.865
2524.940	-0.246	789.897	790.143
2527.399	-0.235	790.119	790.354
2530.000	-0.243	790.353	790.596
2535.602	-0.226	790.858	791.084
2540.000	-0.264	791.254	791.518
2540.303	-0.266	791.281	791.547
2541.941	-0.280	791.428	791.708
2545.000	-0.328	791.704	792.032
2546.818	-0.357	791.867	792.224
2550.000	-0.387	792.153	792.540
2555.000	-0.462	792.602	793.064
2560.000	-0.443	793.048	793.491
2561.818	-0.410	793.210	793.620
2561.917	-0.407	793.219	793.626
2563.178	-0.379	793.331	793.710
2570.000	-0.296	793.936	794.232
2570.324	-0.298	793.964	794.262
2576.818	-0.303	794.537	794.840
2580.000	-0.274	794.817	795.091
2582.839	-0.301	795.066	795.367
2586.796	-0.350	795.415	795.765
2590.000	-0.388	795.700	796.088
2592.682	-0.398	795.939	796.337
2597.781	-0.376	796.396	796.772
2597.839	-0.376	796.401	796.777
2600.000	-0.363	796.596	796.959
2605.000	-0.364	797.049	797.413

HORIZONTAL GEOMETRY
2454.279
L=34.066
B=300°19'11"
L=49.724
R=40.000
2504.002
L=36.300
B=11°32'38"
2540.303
L=22.875
R=15.000
2563.178
L=34.603
B=284°10'01"
2597.781 L=61.785
R=27.000

SUPER ELEVATION
R3% L-3%
R-0% L0% R-2% L2%
L4% L6% L6%
R-4% R-6% R-6%
L5% L4%
R-5% R-4%
R1% R0% L1% L0%
R1% R2% R2%
L-1% L-2% L-2%
R4% R6% R6%
L-4% L-6% L-6%
R4% R4%
L-4% L-4%
R1% R0% R-1% R-2% R-3% R-4%
L-1% L-0% L1% L2% L3% L4%
L6% L6%
R-6% R-6%

LONGITUDINAL SECTION - MC01
SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
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HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

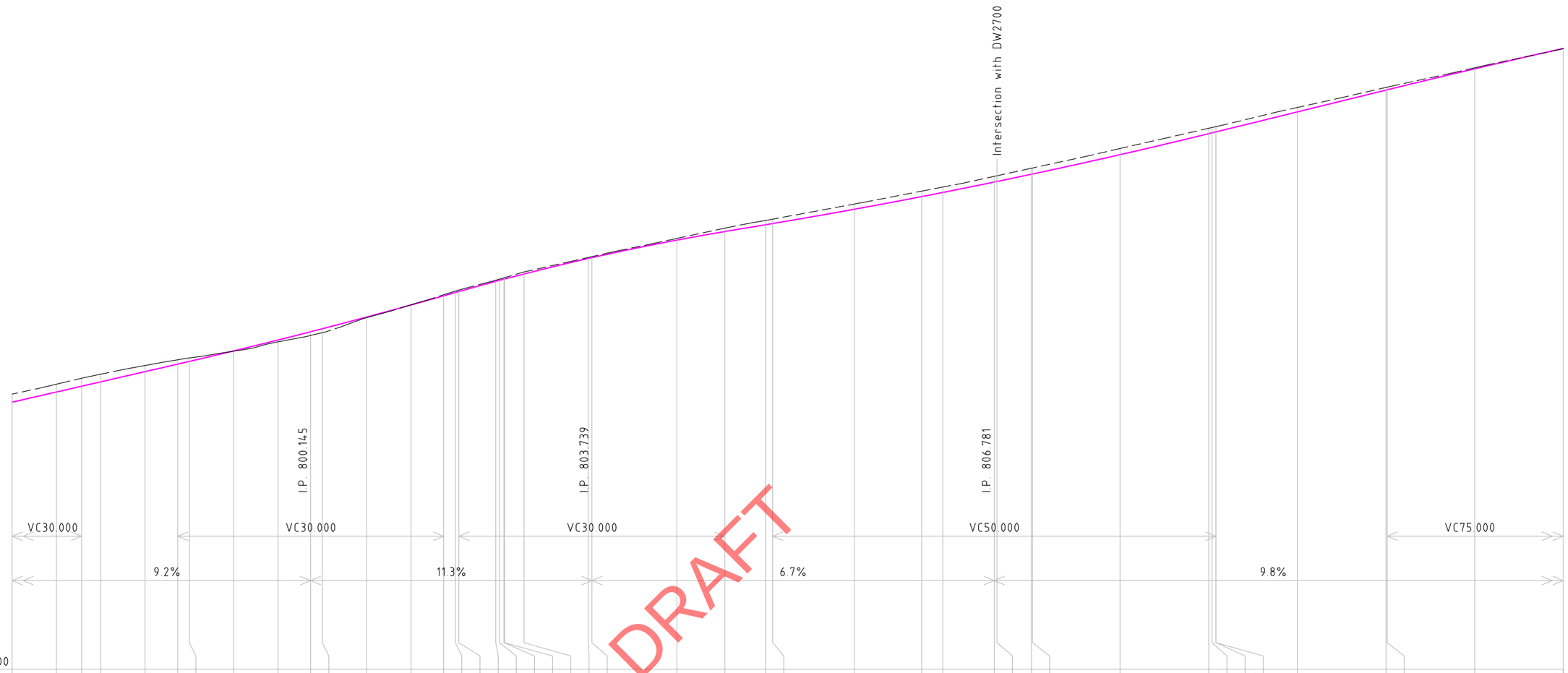
MC-01 LONGITUDINAL SHEET 15 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-214



CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
-0.364	797.049	797.413	2605.000
-0.355	797.505	797.860	2610.000
-0.358	797.766	798.124	2612.839
-0.345	797.965	798.310	2615.000
-0.278	798.425	798.703	2620.000
-0.195	798.764	798.959	2623.682
-0.158	798.886	799.044	2625.000
0.010	799.360	799.350	2630.000
0.084	799.851	799.767	2635.000
0.168	800.225	800.057	2638.682
0.178	800.361	800.183	2640.000
0.027	800.887	800.860	2645.000
-0.007	801.432	801.439	2650.000
-0.049	801.844	801.893	2653.682
-0.064	801.994	802.058	2655.000
-0.065	802.040	802.105	2655.407
-0.050	802.497	802.547	2659.566
-0.055	802.544	802.599	2660.000
-0.061	802.595	802.656	2660.482
-0.062	802.601	802.663	2660.544
-0.090	802.830	802.920	2662.754
-0.048	803.528	803.576	2670.000
-0.048	803.565	803.613	2670.407
-0.075	804.359	804.434	2680.000
-0.154	804.744	804.898	2685.407
-0.191	805.052	805.243	2690.000
-0.197	805.105	805.302	2690.801
-0.235	805.748	805.983	2700.000
-0.248	806.321	806.569	2707.627
-0.244	806.507	806.751	2710.000
-0.258	806.976	807.234	2715.801
-0.260	807.001	807.261	2716.109
-0.272	807.328	807.600	2720.000
-0.271	807.338	807.609	2720.107
-0.278	808.212	808.490	2730.000
-0.242	809.159	809.401	2740.000
-0.240	809.195	809.435	2740.374
-0.237	809.237	809.474	2740.801
-0.237	809.238	809.475	2740.812
-0.199	810.141	810.340	2750.000
-0.121	811.124	811.245	2760.000
-0.120	811.138	811.258	2760.140
-0.044	812.085	812.129	2770.000
0.007	813.001	812.994	2780.000

HORIZONTAL GEOMETRY
L=61.785
R=27.000
2659.566
L=135.164
B=55°16′43″

SUPER ELEVATION
L6% R-6%
L6% L5% R-6%
L4% R-5%
L2% R-5%
L1% R-4%
L0% R-4%
R-3% L-2%
R-3% L-3%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

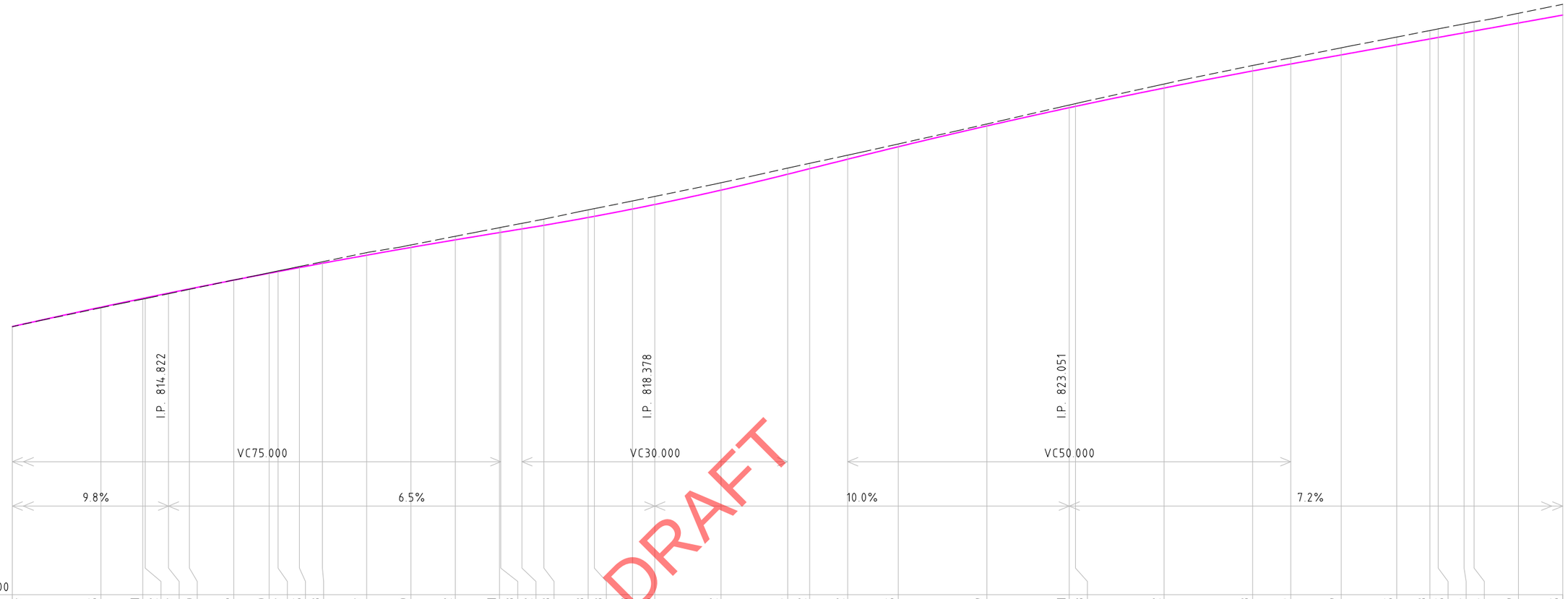
MC-01 LONGITUDINAL SHEET 16 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-215



R.L. 800.900

CONTROL LINE CUT / FILL	0.007	0.025	0.031	0.032	0.027	0.020	-0.006	-0.020	-0.027	-0.045	-0.068	-0.117	-0.110	-0.162	-0.221	-0.223	-0.252	-0.278	-0.343	-0.348	-0.363	-0.365	-0.332	-0.274	-0.242	-0.182	-0.125	-0.089	-0.121	-0.123	-0.182	-0.248	-0.274	-0.319	-0.355	-0.378	-0.385	-0.404	-0.404	-0.439	-0.485
DESIGN SURFACE	813.001	813.873	814.269	814.292	814.508	814.700	815.096	815.405	815.482	815.664	815.856	816.220	816.572	816.913	817.242	817.251	817.406	817.570	817.923	817.974	818.305	818.509	819.158	819.876	820.124	820.553	821.114	822.053	822.876	822.937	823.764	824.535	824.849	825.260	825.710	825.979	826.047	826.256	826.338	826.698	827.058
EXISTING SURFACE	812.994	813.848	**814.238**	814.260	814.481	814.680	815.102	815.425	815.509	815.709	815.924	816.337	816.682	817.075	817.463	817.474	817.658	817.848	818.266	**818.322**	818.668	818.874	819.490	820.150	820.366	820.735	821.239	822.142	822.997	823.060	823.946	824.783	825.123	825.579	826.065	826.357	826.432	**826.660**	826.742	827.137	827.543
CHAINAGE	2780.000	2790.000	2794.729	2795.000	2797.640	2800.000	2805.000	2808.991	2810.000	2812.406	2815.000	2820.000	2825.000	2830.000	2835.000	2835.140	2837.524	2840.000	2845.000	2845.696	2850.000	2852.524	2860.000	2867.524	2870.000	2874.299	2880.000	2890.000	2899.299	2900.000	2910.000	2920.000	2924.299	2930.000	2936.261	2940.000	2940.946	2943.857	2945.000	2950.000	2955.000

HORIZONTAL GEOMETRY

L=135.164
B=55°16'43" 2794.729
L=50.966
R=2510.000
2845.696
L=98.162
B=54°06'55"
2943.857
L=42.430
R=110.000

SUPER ELEVATION

R-3%
L-3%
R-1% R-0% R1% R2% R3% R4%
L-3% L-3% L-4% L-4% L-4% L-4%

LONGITUDINAL SECTION - MC01
SCALE: 1:500H 1:200V (A3)

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500
VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

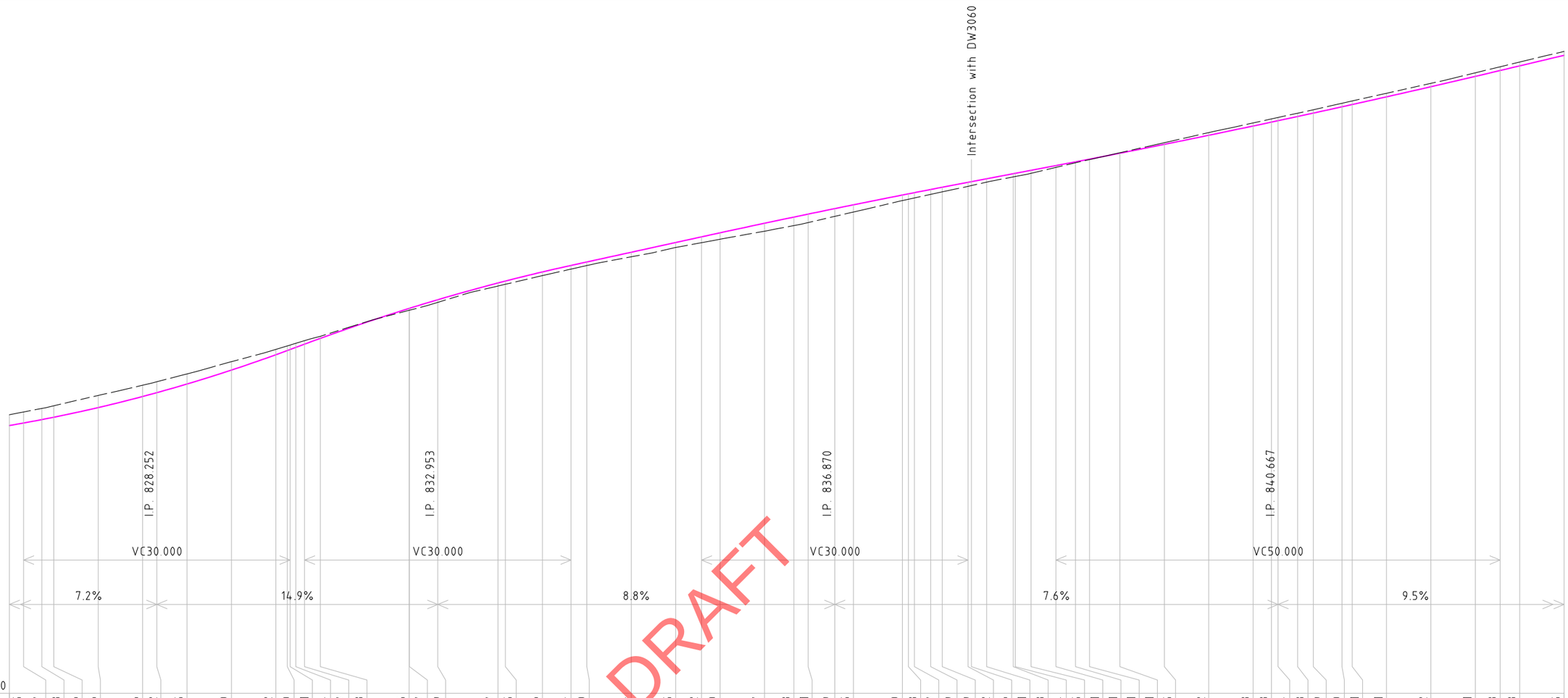
MC-01 LONGITUDINAL SHEET 17 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-216



CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE	CHAINAGE
-0.485	827.058	827.543	2955.000
-0.497	827.173	827.670	2956.602
-0.503	827.325	827.828	2958.650
-0.516	827.432	827.948	2960.000
-0.546	827.867	828.413	2965.000
-0.506	828.366	828.872	2970.000
-0.492	828.539	829.031	2971.602
-0.455	828.929	829.384	2975.000
-0.380	829.556	829.936	2980.000
-0.242	830.247	830.489	2985.000
-0.210	830.435	830.645	2986.288
-0.201	830.482	830.683	2986.602
-0.184	830.576	830.760	2987.236
-0.157	830.723	830.880	2988.221
-0.093	830.984	831.077	2990.000
0.086	832.333	832.247	3000.000
0.087	832.338	832.251	3000.041
0.119	832.724	832.605	3003.221
0.137	833.478	833.341	3010.000
0.145	833.565	833.420	3010.838
0.166	833.975	833.809	3015.000
0.164	834.268	834.104	3018.221
0.160	834.424	834.264	3020.000
0.204	834.862	834.658	3025.000
0.225	835.300	835.075	3030.000
0.262	835.555	835.293	3032.910
0.290	835.738	835.448	3035.000
0.357	836.167	835.810	3040.000
0.383	836.446	836.063	3043.303
0.381	836.580	836.199	3044.915
0.349	836.827	836.478	3047.910
0.325	836.997	836.672	3050.000
0.250	837.439	837.189	3055.518
0.243	837.492	837.249	3056.200
0.237	837.545	837.308	3056.873
0.219	837.688	837.469	3058.699
0.209	837.789	837.580	3060.000
0.182	838.012	837.830	3062.910
0.176	838.041	837.865	3063.290
0.151	838.171	838.020	3065.000
0.143	838.398	838.255	3067.992
0.144	838.416	838.272	3068.222
0.135	838.551	838.416	3070.000
0.081	838.764	838.683	3072.802
0.041	838.933	838.892	3075.000
0.021	839.055	839.034	3076.583
-0.021	839.322	839.343	3080.000
-0.075	839.721	839.796	3085.000
-0.122	840.129	840.251	3090.000
-0.138	840.547	840.685	3095.000
-0.143	840.723	840.866	3097.064
-0.144	840.786	840.930	3097.802
-0.148	840.975	841.123	3100.000
-0.149	841.129	841.278	3101.774
-0.160	841.412	841.572	3105.000
-0.161	841.514	841.675	3106.154
-0.161	841.859	842.020	3110.000
-0.152	842.315	842.467	3115.000
-0.161	842.781	842.942	3120.000
-0.168	843.046	843.214	3122.802
-0.173	843.255	843.428	3125.000
-0.175	843.731	843.906	3130.000

HORIZONTAL GEOMETRY

L=42.430
R=110.000
2986.288
L=24.550
B=32°00'52"
3010.838
L=32.465
R=40.000
3043.303
L=13.570
B=78°31'02" 3056.873
L=40.191
R=240.000
L=4.710
3097.064 3101.774
L=63.343
R=850.000

SUPER ELEVATION

R4% L-4%
R2% R2% R1% L-2% L-2% L-1%
L2% L3% R-2% R-3%
L6% L6% R6% R-6%
L5% L4% L3% L2% R-5% R-4% R-3% R-2%
R0% R0% L-0% L-0% R1% R1% R2% L-1% L-1% L-2%
R2% R2% R1% L-2% L-2% L-1%
R1% L-1%
R1% L-1%
R0% R-0% R0% L-0% L0% L0%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500
VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

CHECKED: DATE: DESIGNER
CHECKED: DATE: SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE: CLIENT REPRESENTATIVE

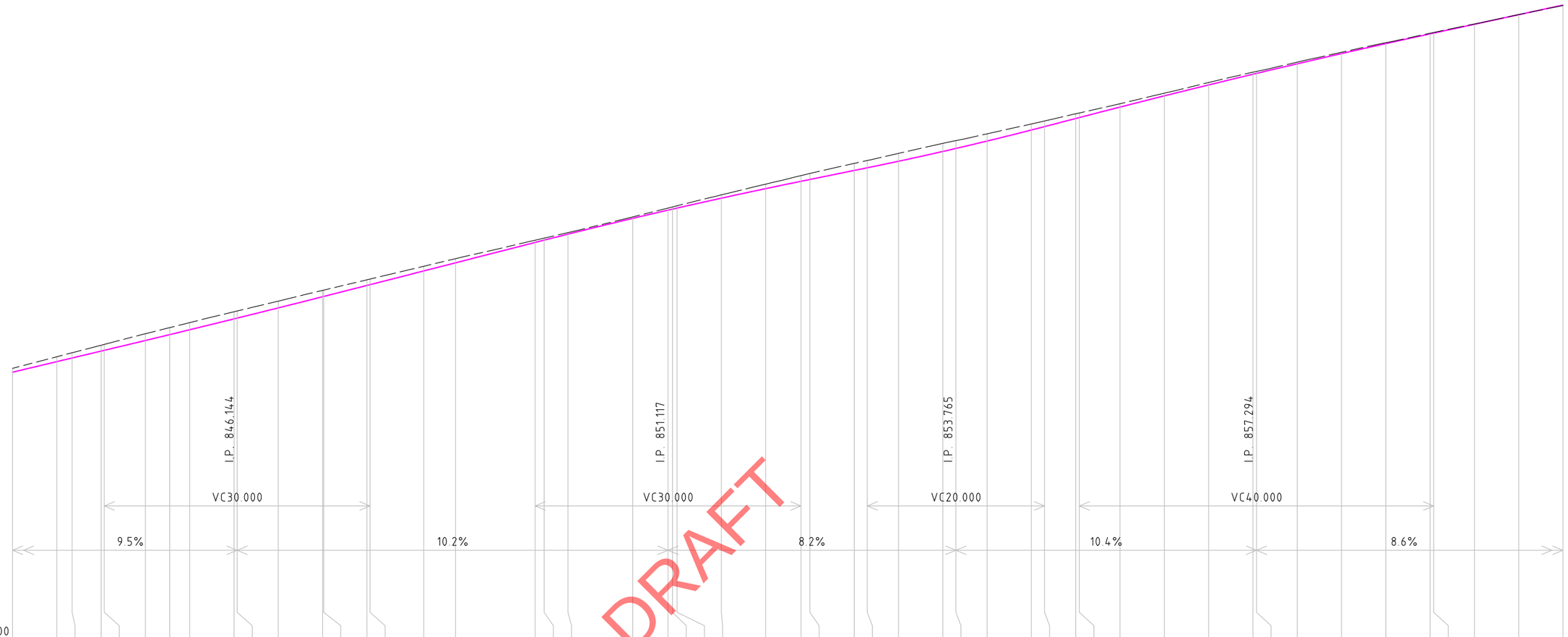
MC-01 LONGITUDINAL SHEET 18 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-217



R.L. 831.700

CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
3130.000	-0.175	843.731	843.906
3135.000	-0.221	844.207	844.428
3136.718	-0.236	844.370	844.606
3140.000	-0.264	844.683	844.947
3140.350	-0.268	844.716	844.984
3145.000	-0.305	845.161	845.466
3147.740	-0.314	845.426	845.740
3150.000	-0.322	845.645	845.967
3155.000	-0.320	846.136	846.456
3155.350	-0.320	846.170	846.490
3160.000	-0.305	846.632	846.937
3165.000	-0.287	847.134	847.421
3165.117	-0.286	847.146	**847.432**
3170.000	-0.255	847.642	847.897
3170.350	-0.254	847.677	847.931
3176.408	-0.210	848.297	848.507
3180.000	-0.186	848.664	848.850
3188.988	-0.102	849.583	849.685
3190.000	-0.093	849.686	849.779
3192.691	-0.069	849.957	850.026
3200.000	-0.068	850.667	850.735
3203.988	-0.094	851.039	851.133
3204.490	-0.099	851.085	**851.184**
3205.000	-0.103	851.132	851.235
3210.000	-0.148	851.579	851.727
3215.000	-0.203	852.009	852.212
3218.988	-0.257	852.340	852.597
3220.000	-0.271	852.422	852.693
3225.000	-0.318	852.830	853.148
3226.477	-0.328	852.950	853.278
3230.000	-0.355	853.244	853.599
3235.000	-0.364	853.686	854.050
3236.477	-0.352	853.822	854.174
3240.000	-0.327	854.155	854.482
3245.000	-0.271	854.653	854.924
3246.477	-0.255	854.806	855.061
3250.000	-0.212	855.172	855.384
3250.403	-0.207	855.214	855.421
3255.000	-0.150	855.687	855.837
3260.000	-0.121	856.192	856.313
3265.000	-0.110	856.685	856.795
3270.000	-0.092	857.168	857.260
3270.403	-0.088	857.206	857.294
3275.000	-0.074	857.640	857.714
3280.000	-0.060	858.100	858.160
3285.000	-0.043	858.550	858.593
3290.000	-0.031	858.988	859.019
3290.403	-0.031	859.023	859.054
3295.000	-0.013	859.421	859.434
3300.000	-0.006	859.853	859.859
3305.000	0.017	860.285	860.268

HORIZONTAL GEOMETRY

L=63.343 R=850.000 | 3165.117 | L=39.373 B=64°39'09" | 3204.490 | L=126.898 R=65.000

SUPER ELEVATION

R-1% L1% R-1% L1% R-1% L1% R-1% L1% R-2% L2% R-2% L2% R-2% L2% R-2% L2% R-2% L2% R-3% L3% R-3% L3% R-3% L3% R-4% L4% R-4% L4% R-5% L5% R-5% L5% R-6% L6% R-6% L6%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
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HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500
VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

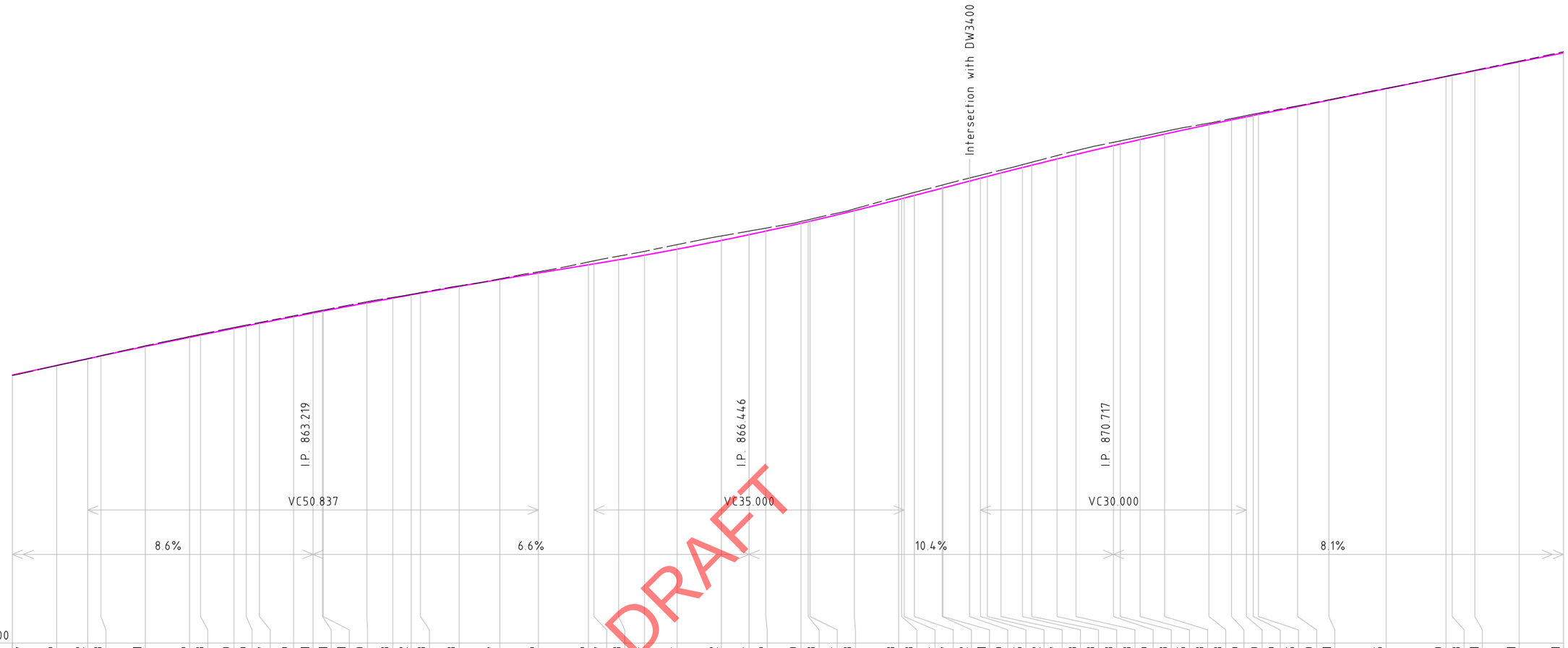
MC-01 LONGITUDINAL SHEET 19 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D. | SCALES AS SHOWN | DRAWING NO. 1455-218 | A3



R.L. 848.200

CONTROL LINE CUT / FILL	0.017	0.006	0.002	-0.008	-0.031	-0.036	-0.038	-0.040	-0.039	-0.037	-0.039	-0.041	-0.041	-0.041	-0.050	-0.033
DESIGN SURFACE	860.285	860.718	861.021	861.150	861.574	861.988	862.088	862.391	862.501	862.619	862.918	863.086	863.168	863.173	863.540	863.753
EXISTING SURFACE	860.268	860.712	861.019	861.158	861.605	862.024	862.126	862.431	862.540	862.656	862.957	863.127	863.209	863.214	863.590	863.786
CHAINAGE	3305.000	3310.000	3313.508	3315.000	3320.000	3325.000	3326.235	3330.000	3331.389	3332.880	3336.731	3338.927	3340.000	3340.068	3345.000	3347.919

CONTROL LINE CUT / FILL	-0.022	-0.023	-0.023	-0.027	-0.056	-0.126	-0.137	-0.163	-0.174	-0.204	-0.202	-0.164	-0.136	-0.080	-0.083	-0.084
DESIGN SURFACE	863.903	863.978	864.284	864.597	864.886	865.257	865.298	865.484	865.689	865.962	866.355	866.613	866.775	867.128	867.204	867.223
EXISTING SURFACE	863.925	864.001	864.307	864.624	864.942	865.383	865.435	865.647	865.863	866.166	866.557	866.777	866.911	867.208	867.287	867.307
CHAINAGE	3350.000	3351.045	3355.418	3360.000	3364.346	3370.000	3370.614	3373.393	3376.314	3380.000	3385.000	3388.114	3390.000	3393.971	3394.791	3395.000

CONTROL LINE CUT / FILL	-0.078	-0.133	-0.133	-0.134	-0.137	-0.142	-0.141	-0.139	-0.135	-0.132	-0.127	-0.128	-0.133	-0.153	-0.168
DESIGN SURFACE	867.698	868.200	868.234	868.264	868.384	868.709	868.720	869.030	869.159	869.239	869.397	869.642	869.746	870.028	870.233
EXISTING SURFACE	867.776	868.333	868.367	868.398	868.521	868.851	868.861	869.169	869.294	869.371	869.524	869.770	869.879	870.181	870.401
CHAINAGE	3400.000	3405.000	3405.324	3405.614	3406.770	3409.897	3410.000	3412.987	3414.224	3415.000	3416.538	3418.961	3420.000	3422.867	3425.000

CONTROL LINE CUT / FILL	-0.149	-0.143	-0.125	-0.113	-0.063	-0.059	-0.060	-0.059	-0.055	-0.030	-0.021	-0.015	-0.010	-0.013	-0.021	-0.031	-0.051
DESIGN SURFACE	870.630	870.701	870.904	871.150	871.579	871.791	871.927	871.989	872.036	872.392	872.677	873.199	873.743	873.799	874.005	874.408	874.812
EXISTING SURFACE	870.779	870.844	871.029	871.263	871.642	871.850	871.987	872.048	872.091	872.422	872.698	873.214	873.753	873.812	874.026	874.439	874.863
CHAINAGE	3429.224	3430.000	3432.235	3435.000	3440.000	3442.557	3444.224	3445.000	3445.580	3450.000	3453.526	3460.000	3466.743	3467.447	3470.000	3475.000	3480.000

HORIZONTAL GEOMETRY

L=126.898 R=65.000
3331.389 3336.731
L=5.342 B=176°30'37"
L=14.314 R=100.000
3351.045
L=25.269 B=184°42'41"
3376.314
L=40.224 R=115.000
L=6.329
3416.538 [illegible] 3422.867
L=22.712 R=35.000
3445.580
L=21.164 B=127°29'24"
3466.743
L=19.498 R=175.000

SUPER ELEVATION

L6% R-6%
L6% R-6%
L5% R-5%
L4% R-4%
L3% R-3%
L2% R-2%
R-0% L0%
R1% L-1%
R2% L-2%
R3% L-3%
R4% L-4%
R5% L-5%
R3% L-3%
R2% L-2%
R-0% L0%
L2% R-2%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

MC-01 LONGITUDINAL SHEET 20 OF 29

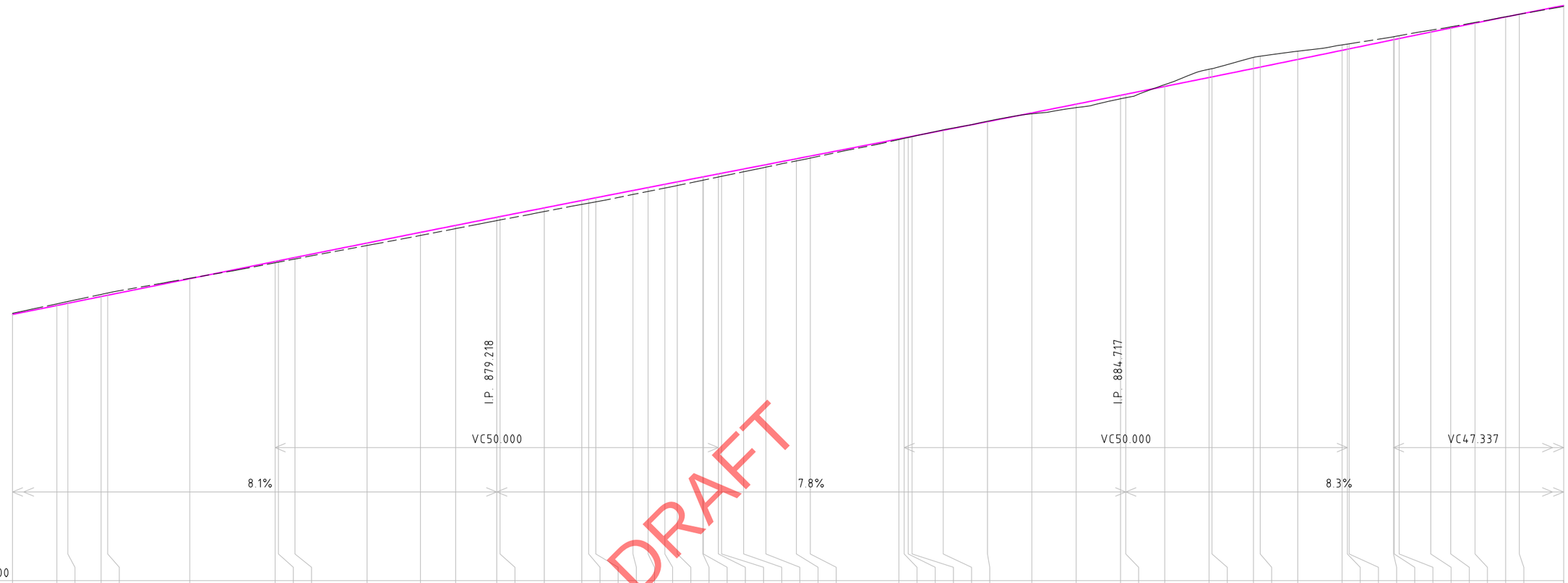
SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
A3

SCALES AS SHOWN
DRAWING NO.
1455-219



CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
3480.000	-0.051	874.812	874.863
3485.000	-0.074	875.215	875.289
3486.242	-0.080	875.315	875.395
3490.000	-0.097	875.618	875.715
3490.743	-0.100	875.678	875.778
3500.000	-0.020	876.424	876.444
3509.637	0.060	877.202	877.142
3510.000	0.061	877.231	877.170
3511.865	0.068	877.381	877.313
3520.000	0.110	878.034	877.924
3526.032	0.137	878.515	878.378
3530.000	0.146	878.831	878.685
3534.637	0.151	879.198	879.047
3535.000	0.152	879.227	879.075
3540.000	0.166	879.621	879.455
3544.231	0.175	879.954	879.779
3545.000	0.179	880.014	879.835
3545.813	0.183	880.078	879.895
3550.000	0.179	880.405	880.226
3551.703	0.173	880.538	880.365
3553.603	0.171	880.687	880.516
3555.000	0.167	880.795	880.628
3557.890	0.151	881.020	880.869
3557.950	0.150	881.024	880.874
3559.637	0.140	881.155	881.015
3560.000	0.138	881.183	881.045
3562.492	0.127	881.377	881.250
3565.000	0.112	881.571	881.459
3568.435	0.097	881.837	881.740
3570.000	0.090	881.958	881.868
3580.000	0.030	882.734	882.704
3580.593	0.023	882.780	882.757
3581.058	0.017	882.816	882.799
3581.486	0.012	882.849	882.837
3585.000	-0.019	883.122	883.141
3590.000	-0.020	883.513	883.533
3595.000	0.040	883.907	883.867
3600.000	0.157	884.303	884.146
3605.000	0.156	884.701	884.545
3605.593	0.157	884.749	884.592
3610.000	-0.082	885.102	885.184
3615.000	-0.371	885.506	885.877
3615.324	-0.372	885.532	885.904
3620.000	-0.502	885.912	886.414
3620.760	-0.494	885.974	886.468
3625.000	-0.371	886.321	886.692
3630.000	-0.245	886.732	886.977
3630.593	-0.233	886.781	887.014
3630.793	-0.229	886.797	887.026
3635.801	-0.135	887.211	887.346
3635.884	-0.134	887.218	887.352
3636.437	-0.129	887.263	887.392
3640.000	-0.086	887.555	887.641
3642.257	-0.052	887.739	887.791
3645.000	-0.029	887.961	887.990
3648.446	-0.008	888.237	888.245
3650.000	0.002	888.361	888.359
3655.000	0.039	888.756	888.717

HORIZONTAL GEOMETRY

L=19.3498 3486.242 R=175.000
L=39.790 B=133°52'25"
3526.032
L=25.671 R=540.000
3551.703 L=1.901 B=135°35'03" 3553.603
L=14.832 R=200.000
3568.435 B=132°20'55" 3581.486 L=13.051
L=49.307 R=19.000
3630.793 B=343°39'34" L=11.463
3642.257 L=36.266 R=75.000

SUPER ELEVATION

L2% R-2% L2% R-3% R-3% L-2% L-3% L-3% R-3% R-2% R-1% R0% R1% R2% R3% R4% L-3% L-4% L-5% R6% L-6% R5% L-5% R3% L-3% R1% L-1% R-1% L1% L2% L3% L4% L5% R-2% R-3% R-4% R-5%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500
VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

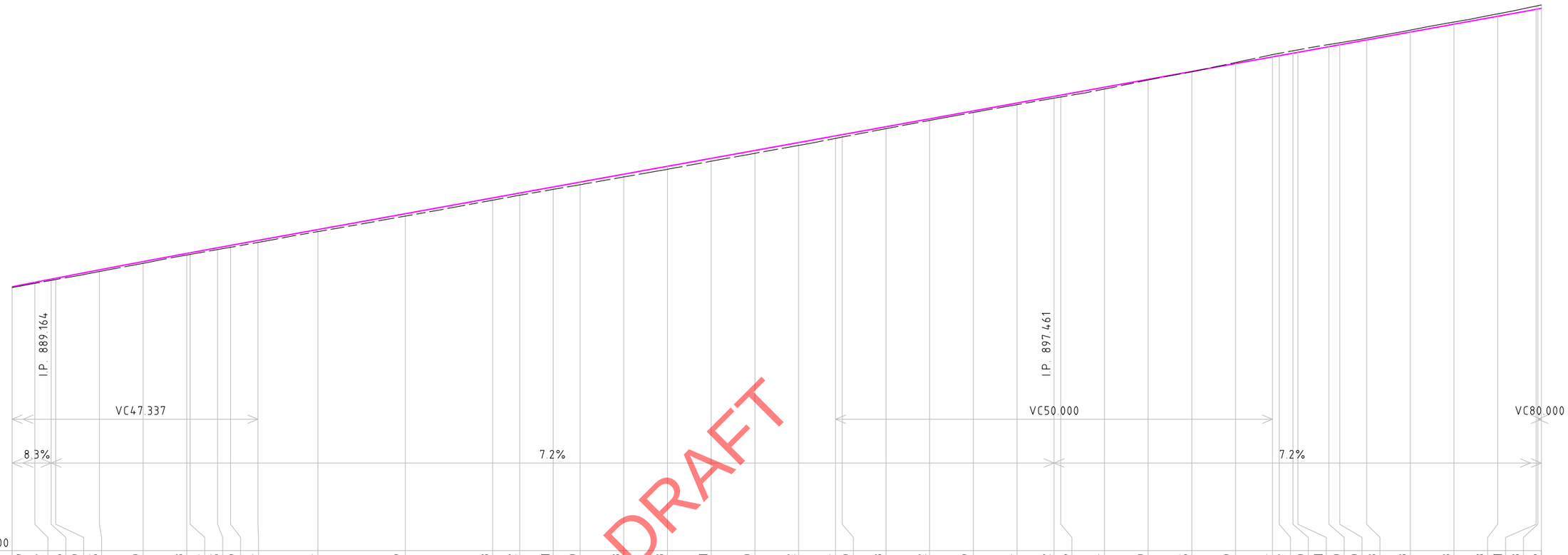
MC-01 LONGITUDINAL SHEET 21 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-220



CONTROL LINE CUT / FILL	0.039	0.047	0.056	0.059	0.075	0.080	0.073	0.074	0.085	0.089	0.094	0.094
DESIGN SURFACE	888.756	888.959	889.104	889.145	889.529	889.907	890.280	890.308	890.540	890.648	890.876	891.372
EXISTING SURFACE	888.717	888.912	889.048	889.086	889.454	889.827	890.207	890.234	890.455	890.559	890.782	891.278
CHAINAGE	3655.000	3657.609	3659.469	3660.000	3665.000	3670.000	3675.000	3675.376	3678.523	3680.000	3683.138	3690.000

CONTROL LINE CUT / FILL	0.109	0.103	0.102	0.111	0.120	0.128	0.138	0.131	0.130	0.132	0.114	0.110
DESIGN SURFACE	892.095	892.817	893.042	893.318	893.540	893.902	894.263	894.625	894.986	895.348	895.653	895.709
EXISTING SURFACE	891.986	892.714	892.940	893.207	893.420	893.774	894.125	894.494	894.856	895.216	895.539	895.599
CHAINAGE	3700.000	3710.000	3713.102	3716.922	3720.000	3725.000	3730.000	3735.000	3740.000	3745.000	3749.229	3750.000

CONTROL LINE CUT / FILL	0.088	0.072	0.069	0.074	0.082	0.086	0.084	0.030	0.015	-0.049	-0.104	-0.107
DESIGN SURFACE	896.071	896.432	896.793	897.154	897.459	897.515	897.876	898.236	898.597	898.957	899.262	899.318
EXISTING SURFACE	895.983	896.360	896.724	897.080	897.377	897.429	897.792	898.206	898.582	899.006	899.366	899.425
CHAINAGE	3755.000	3760.000	3765.000	3770.000	3774.229	3775.000	3780.000	3785.000	3790.000	3795.000	3799.229	3800.000

CONTROL LINE CUT / FILL	-0.110	-0.111	-0.100	-0.090	-0.078	-0.088	-0.098	-0.113	-0.151	-0.153	-0.156
DESIGN SURFACE	899.431	899.472	899.728	899.817	900.038	900.398	900.759	901.119	901.437	901.450	901.479
EXISTING SURFACE	899.541	899.583	899.828	899.907	900.116	900.486	900.857	901.232	901.588	901.603	901.635
CHAINAGE	3801.570	3802.141	3805.691	3806.927	3810.000	3815.000	3820.000	3825.000	3829.407	3829.595	3830.000

HORIZONTAL GEOMETRY

L=36.266
R=75.000
3678.523
L=38.399
B=11°21'54"
3716.922
L=84.648
R=95.000
3801.570
L=4.121
B=62°[illegible]
3805.691
L=31.653
R=25.000

SUPER ELEVATION

L6% R-6%
L6% R-6%
L5% R-5%
L5% R-5%
L5% R-5%
L5% R-5%
L3% R-3%
R1%
R1% R2% L-1% L-2%
R4% L-4%
R6% L-6%
R6% L-6%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

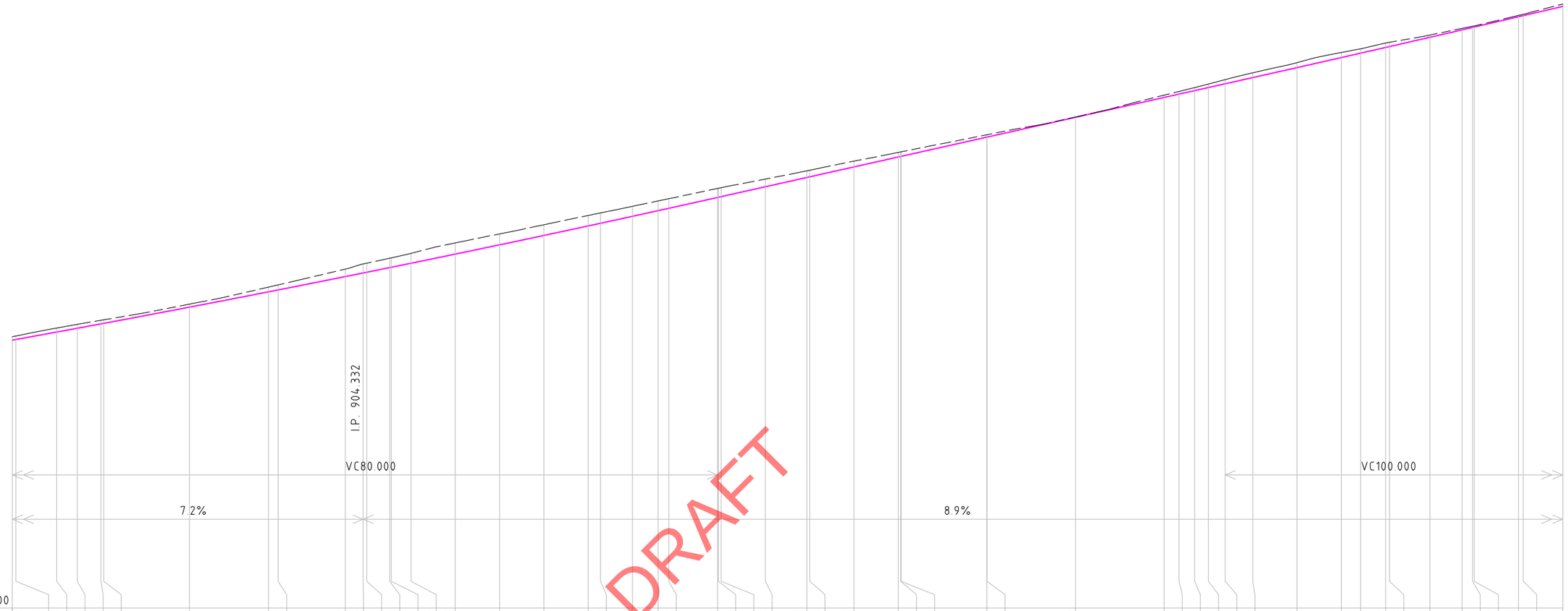
MC-01 LONGITUDINAL SHEET 22 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-221



CHAINAGE	CONTROL LINE CUT / FILL	DESIGN SURFACE	EXISTING SURFACE
3830.000	-0.156	901.479	901.635
3830.398	-0.158	901.508	901.666
3835.000	-0.179	901.843	902.022
3837.344	-0.177	902.015	902.192
3840.000	-0.161	902.212	902.373
3840.322	-0.159	902.236	902.395
3850.000	-0.137	902.966	903.103
3858.915	-0.214	903.656	903.870
3860.000	-0.228	903.742	903.970
3867.584	-0.335	904.345	904.680
3869.595	-0.406	904.507	904.913
3870.000	-0.409	904.539	904.948
3872.594	-0.423	904.750	905.173
3872.767	-0.424	904.764	905.188
3875.000	-0.446	904.946	905.392
3880.000	-0.503	905.359	905.862
3885.000	-0.490	905.777	906.267
3890.000	-0.482	906.200	906.682
3895.000	-0.472	906.629	907.101
3896.380	-0.465	906.748	907.213
3900.000	-0.450	907.063	907.513
3902.891	-0.437	907.317	907.754
3904.101	-0.432	907.423	907.855
3909.595	-0.406	907.912	908.318
3909.692	-0.406	907.920	908.326
3910.000	-0.404	907.948	908.352
3915.000	-0.346	908.395	908.741
3919.681	-0.301	908.814	909.115
3920.000	-0.298	908.843	909.141
3925.000	-0.262	909.290	909.552
3930.000	-0.207	909.738	909.945
3930.268	-0.204	909.762	909.966
3930.314	-0.204	909.766	909.970
3940.000	-0.109	910.632	910.741
3940.002	-0.108	910.633	910.741
3950.000	-0.015	911.527	911.542
3960.000	-0.103	912.422	912.525
3961.686	-0.119	912.573	912.692
3963.449	-0.136	912.731	912.867
3965.000	-0.157	912.869	913.026
3966.886	-0.188	913.038	913.226
3970.000	-0.216	913.317	913.533
3975.000	-0.226	913.768	913.994
3980.000	-0.229	914.221	914.450
3982.171	-0.197	914.418	914.615
3985.000	-0.200	914.677	914.877
3985.444	-0.193	914.717	914.910
3990.000	-0.102	915.135	915.237
3993.625	-0.068	915.469	915.537
3994.811	-0.055	915.578	915.633
3995.000	-0.052	915.596	915.648
4000.000	-0.061	916.060	916.121
4000.540	-0.062	916.110	916.172
4005.000	-0.108	916.526	916.634

HORIZONTAL GEOMETRY

L=31.6[illegible] 3837.344
R=25.000
L=30.241
B=349°52'31"
3867.584
L=35.306
R=50.000
3902.891
L=6.801
B=30°20'00"
3909.692
L=20.623
R=40.000
3930.314
L=31.372
B=59°52'23"
3961.686
L=23.758
R=25.000
3985.4[illegible]
L=9.366
B=45°25'22"
3994.811
L=23.800
R=55.000

SUPER ELEVATION

R6% L-6% R5% L-5% R1% L-1% L2% L3% R-2% R-3% L6% R-6% L5% R-5% L2% R-2% R1% L-1% R4% R5% R6% R6% L-4% L-5% L-6% L-6% R5% R3% L-5% L-3% R-0% L-0% L2% L3% R-2% R-3% L6% R-6%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

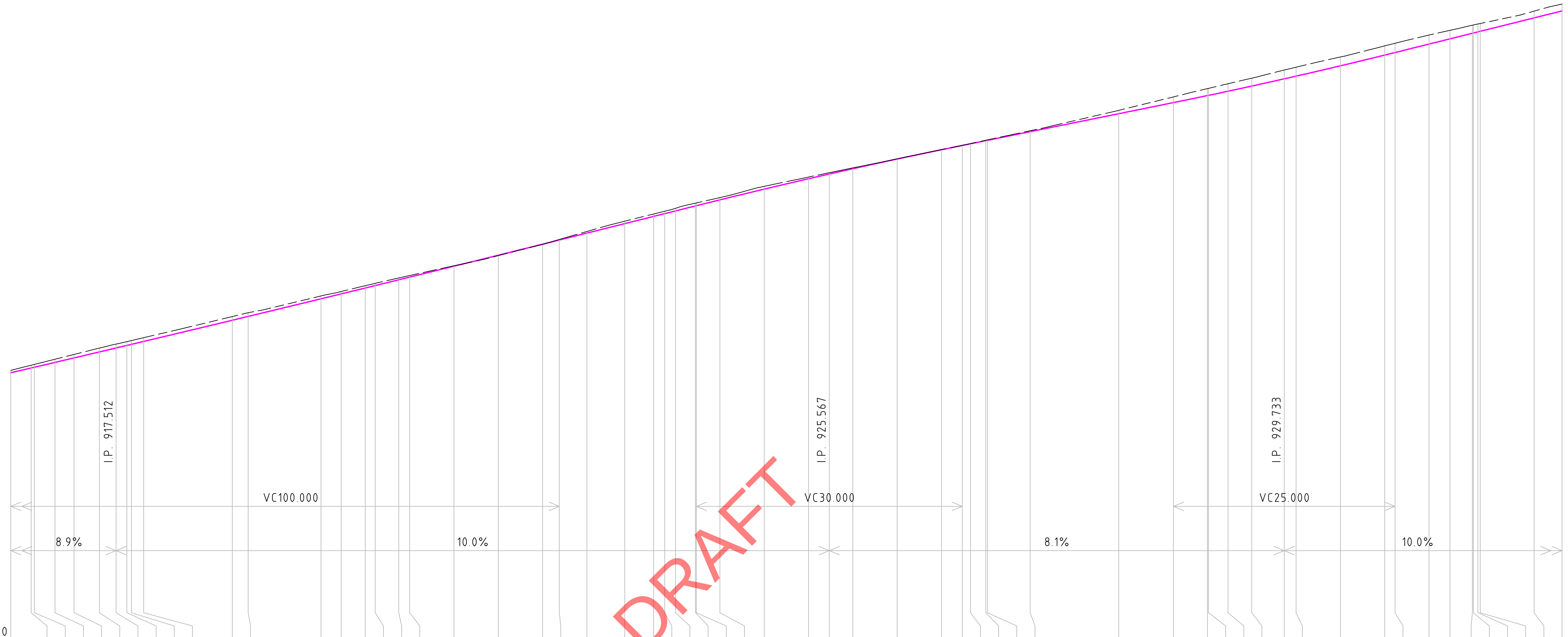
MC-01 LONGITUDINAL SHEET 23 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-222



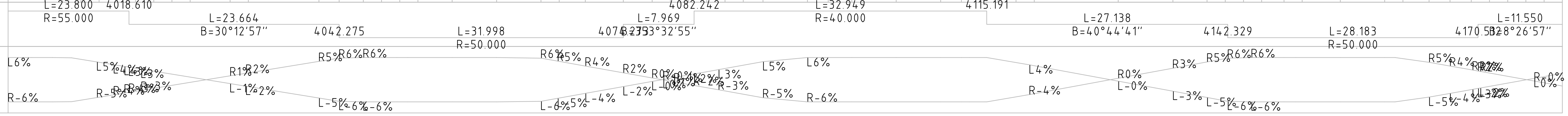
CONTROL LINE CUT / FILL	-0.108	-0.125	-0.127	-0.143	-0.157	-0.172	-0.177	-0.173	-0.172	-0.170	-0.167	-0.166	-0.128	-0.105	-0.105	-0.101	-0.083	-0.071	-0.021	0.017
DESIGN SURFACE	916.526	916.742	916.776	916.995	917.197	917.467	917.645	917.761	917.809	917.941	918.897	919.070	919.865	920.086	920.352	920.462	920.722	920.842	921.335	921.831
EXISTING SURFACE	916.634	916.867	916.903	917.138	917.354	917.639	917.822	917.934	917.981	918.111	919.064	919.236	919.993	920.191	920.457	920.563	920.805	920.913	921.356	921.814
CHAINAGE	4005.000	4007.304	4007.664	4010.000	4012.144	4015.000	4016.886	4018.104	4018.610	4020.000	4030.000	4031.790	4040.000	4042.275	4045.000	4046.123	4048.776	4050.000	4055.000	4060.000

CONTROL LINE CUT / FILL	0.010	-0.024	-0.074	-0.112	-0.110	-0.109	-0.120	-0.127	-0.126	-0.104	-0.126	-0.078	-0.059	-0.038	-0.013	-0.002	-0.006	-0.012	-0.021	-0.022
DESIGN SURFACE	922.329	922.518	922.829	923.257	923.582	923.709	923.831	924.055	924.065	924.329	924.813	925.282	925.496	925.734	926.171	926.592	926.784	926.860	927.000	927.016
EXISTING SURFACE	922.319	922.542	922.903	923.369	923.692	923.818	923.951	924.182	924.191	924.433	924.939	925.360	925.555	925.772	926.184	926.594	926.790	926.872	927.021	927.038
CHAINAGE	4065.000	4066.886	4070.000	4074.273	4077.522	4078.784	4080.000	4082.242	4082.343	4085.000	4090.000	4095.000	4097.343	4100.000	4105.000	4110.000	4112.343	4113.272	4115.000	4115.191

CONTROL LINE CUT / FILL	-0.043	-0.152	-0.258	-0.315	-0.315	-0.338	-0.357	-0.397	-0.405	-0.400	-0.416	-0.419	-0.407	-0.385	-0.365	-0.363	-0.355	-0.351	-0.305	-0.308
DESIGN SURFACE	927.406	928.218	928.718	929.035	929.045	929.233	929.464	929.790	929.912	930.378	930.863	930.978	931.361	931.595	931.847	931.859	931.910	931.936	932.541	932.855
EXISTING SURFACE	927.449	928.370	928.976	929.350	929.360	929.571	929.821	930.187	930.317	930.778	931.279	931.397	931.768	931.980	932.212	932.222	932.265	932.287	932.846	933.163
CHAINAGE	4120.000	4130.000	4136.160	4140.000	4140.113	4142.329	4145.000	4148.660	4150.000	4155.000	4160.000	4161.160	4165.000	4167.353	4169.884	4170.000	4170.512	4170.771	4176.851	4180.000

HORIZONTAL GEOMETRY

SUPER ELEVATION



LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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DIAL 1100 BEFORE YOU DIG

"Take 5"

C:\AutoCAD Working Folder\PSC\Detailed Design\DSJN1455 Concept Design Long Sections.dwg

REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DESIGNER DATE:
CHECKED: SENIOR DESIGN & PROJECT ENGINEER DATE:
CHECKED: CLIENT REPRESENTATIVE DATE:

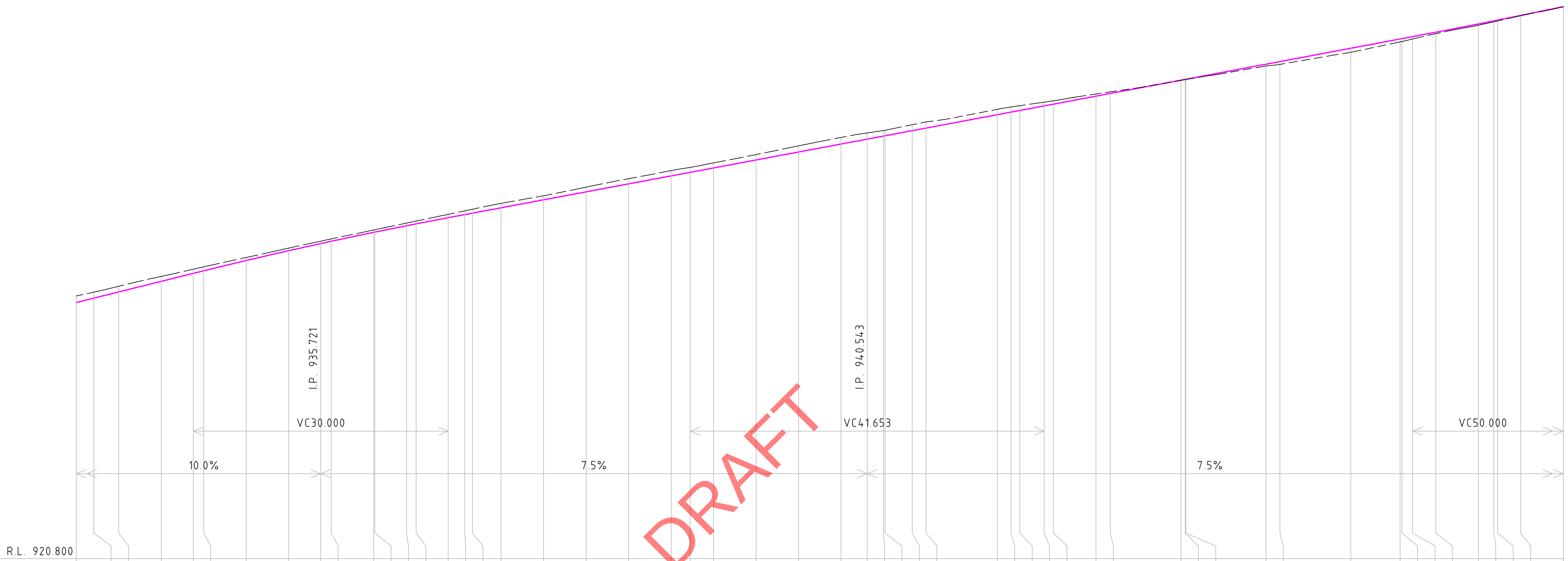
MC-01 LONGITUDINAL SHEET 24 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
A3
DRAWING NO. 1455-223



CONTROL LINE CUT / FILL	-0.308	-0.282	-0.268	-0.231	-0.195	-0.184	-0.142	-0.122	-0.113	-0.112	-0.112	-0.113	-0.127	-0.131	-0.158	-0.177	-0.185	-0.209	-0.192	-0.223	-0.246	-0.251	-0.234	-0.239	-0.256	-0.292	-0.313	-0.292	-0.260	-0.260	-0.282	-0.290	-0.253	-0.242	-0.226	-0.175	-0.158	-0.102	-0.075	0.009	0.013	0.012	0.081	0.132	0.190	0.138	0.136	0.110	0.068	0.059	0.045	0.040	0.014	0.015
DESIGN SURFACE	932.855	933.061	933.353	933.851	934.227	934.349	934.832	935.294	935.629	935.736	936.157	936.168	936.468	936.558	936.846	936.993	937.060	937.313	937.688	938.063	938.438	938.813	938.981	939.188	939.563	939.938	940.313	940.544	940.689	940.702	940.942	941.064	941.695	941.815	941.894	942.109	942.191	942.567	942.694	943.319	943.358	943.362	944.071	944.194	944.822	945.258	945.275	945.368	945.576	945.966	946.111	946.146	946.368	946.783
EXISTING SURFACE	933.163	933.343	933.621	934.082	934.422	934.533	934.974	935.416	935.742	935.848	936.269	936.281	936.595	936.689	937.004	937.170	937.245	937.522	937.880	938.286	938.684	939.064	939.215	939.427	939.819	940.230	940.626	940.836	940.949	940.962	941.224	941.354	941.948	942.057	942.120	942.284	942.349	942.669	942.769	943.310	943.345	943.350	943.990	944.062	944.632	945.120	945.139	945.258	945.508	945.907	946.066	946.106	946.354	946.768
CHAINAGE	4180.000	4182.063	4185.000	4190.000	4193.766	4195.000	4200.000	4205.000	4208.766	4210.000	4215.000	4215.140	4218.861	4220.000	4223.766	4225.728	4226.626	4230.000	4235.000	4240.000	4245.000	4250.000	4252.246	4255.000	4260.000	4265.000	4270.000	4273.073	4275.000	4275.182	4278.380	4280.000	4288.392	4290.000	4291.048	4293.899	4295.000	4300.000	4301.681	4310.000	4310.513	4310.579	4320.000	4321.640	4330.000	4335.799	4336.026	4337.253	4340.000	4345.000	4346.824	4347.262	4350.000	4355.000

HORIZONTAL GEOMETRY

4182.063
L=11.550
B=8°26'57"
L=36.799
R=65.000
4218.861
L=7.765
B=40°53'22"
4226.626
L=51.754
R=55.000
4278.380
L=12.668
B=346°58'18"
4291.048
L=10.633
R=45.000
4301.681
L=34.345
B=0°30'34"
4336.026
L=24.065
R=40.000

SUPER ELEVATION

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

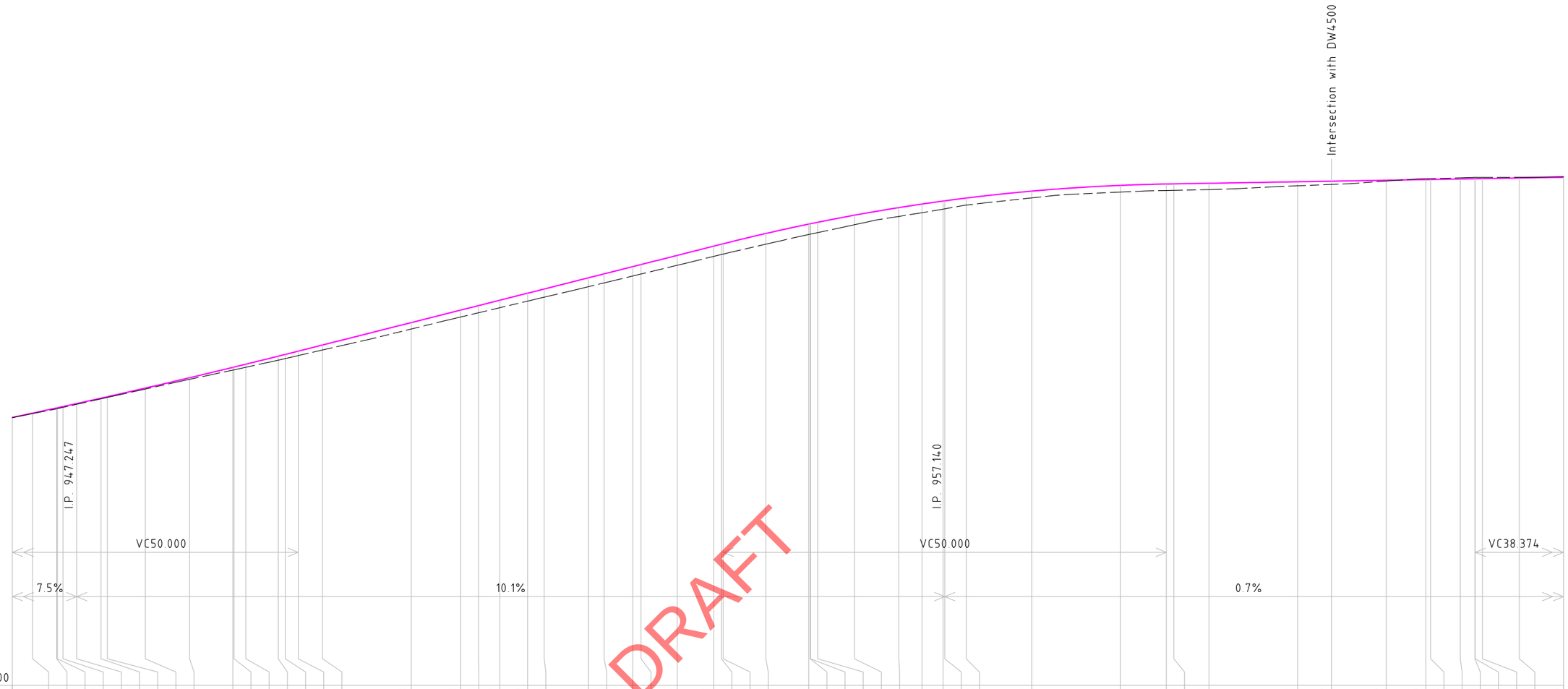
MC-01 LONGITUDINAL SHEET 25 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-224



CONTROL LINE CUT / FILL	0.015	0.020	0.039	0.039	0.037	0.035	0.031	0.031	0.045	0.071	0.123	0.124	0.139	0.179	0.186
DESIGN SURFACE	946.783	946.976	947.211	947.219	947.273	947.409	947.652	947.716	948.107	948.573	949.041	949.053	949.184	949.546	949.625
EXISTING SURFACE	946.768	946.956	947.172	947.180	947.236	947.374	947.621	947.685	948.062	948.502	948.918	948.929	949.045	949.367	949.439
CHAINAGE	4355.000	4357.271	4360.000	4360.091	4360.711	4362.253	4365.000	4365.712	4370.000	4375.000	4379.875	4380.000	4381.341	4385.000	4385.792

CONTROL LINE CUT / FILL	0.200	0.225	0.289	0.310	0.323	0.337	0.357	0.368	0.399	0.408	0.424	0.427	0.446	0.460	0.464
DESIGN SURFACE	949.773	950.050	951.060	951.623	951.827	952.070	952.387	952.575	953.080	953.259	953.586	953.678	954.091	954.507	954.596
EXISTING SURFACE	949.573	949.825	950.771	951.313	951.504	951.733	952.030	952.207	952.681	952.851	953.162	953.251	953.645	954.047	954.132
CHAINAGE	4387.253	4390.000	4400.000	4405.576	4407.588	4410.000	4413.132	4415.000	4420.000	4421.763	4425.000	4425.916	4430.000	4434.126	4435.000

CONTROL LINE CUT / FILL	0.465	0.483	0.470	0.470	0.469	0.468	0.430	0.398	0.390	0.363	0.360	0.319	0.307	0.304	0.294
DESIGN SURFACE	954.615	955.079	955.502	955.515	955.519	955.585	955.904	956.246	956.407	956.541	956.551	956.677	956.990	957.250	957.311
EXISTING SURFACE	954.150	954.596	955.032	955.045	955.050	955.117	955.474	955.848	956.017	956.178	956.191	956.358	956.683	956.946	957.017
CHAINAGE	4435.187	4440.000	4444.842	4445.000	4445.052	4445.857	4450.000	4455.000	4457.622	4460.000	4460.187	4462.615	4470.000	4480.000	4485.187

CONTROL LINE CUT / FILL	0.292	0.288	0.183	0.147	0.037	-0.037	-0.039	-0.050	-0.058	-0.058	-0.054	-0.029	-0.029
DESIGN SURFACE	957.316	957.344	957.412	957.438	957.480	957.511	957.514	957.537	957.548	957.549	957.554	957.582	957.613
EXISTING SURFACE	957.024	957.056	957.229	957.291	957.443	957.548	957.553	957.587	957.606	957.607	957.608	957.611	957.642
CHAINAGE	4486.029	4490.000	4500.000	4503.810	4510.000	4514.458	4515.000	4518.348	4520.000	4520.034	4520.844	4525.000	4530.000

HORIZONTAL GEOMETRY
4360.711 L=0.620 L=B4336605'0211'20" R=40.000
L=25.081 R=200.000
4385.792
L=19.785 B=333°13'26"
4405.576
L=39.475 R=220.000
4445.857 L=0.805 B4342255'5662'36"
L=16.758 R=85.000
4462.615
L=51.843 B=334°14'23"
4514.458
L=40.113 R=65.000

SUPER ELEVATION
R6% L-6%
R6%R6% L-6%L-6%
R5% L-5%
R4%R4%R4% L-4%L-4%L-4%
R3%R3% L-3%L-3%
R3%R3% L-3%L-3%
R2% L-2%
R2% L-2%
R2% L-2%
R1% L-1%
R1% L-1%
R1% L-1%
R0% L-0%
R-0%R-1%R-1%R-1% L0%L1%L1%L1%
L2% R-2%
L3% R-3%
L3% R-3%
L4% R-4%
L5% R-5%
L5% R-5%
L6% R-6%
L6% R-6%

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LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

"Take 5"

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
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A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500
VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER
CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER
CHECKED: DATE:
CLIENT REPRESENTATIVE

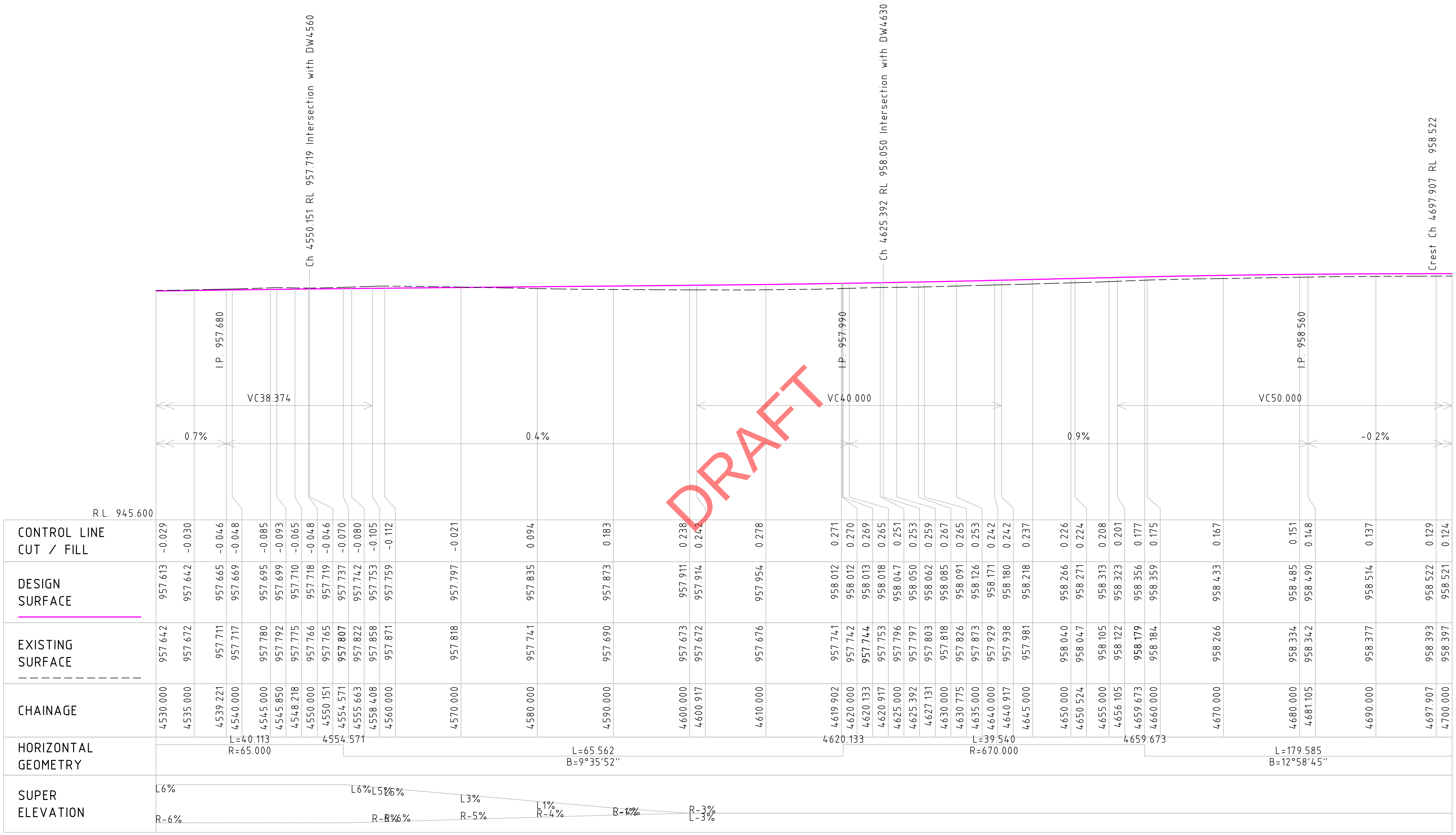
MC-01 LONGITUDINAL SHEET 26 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-225



CHAINAGE	EXISTING SURFACE	DESIGN SURFACE	CONTROL LINE CUT / FILL
4530.000	957.642	957.613	-0.029
4535.000	957.672	957.642	-0.030
4539.221	957.711	957.665	-0.046
4540.000	957.717	957.669	-0.048
4545.000	957.780	957.695	-0.085
4545.850	957.792	957.699	-0.093
4548.218	957.775	957.710	-0.065
4550.000	957.766	957.718	-0.048
4550.151	957.765	957.719	-0.046
4554.571	957.807	957.737	-0.070
4555.663	957.822	957.742	-0.080
4558.408	957.858	957.753	-0.105
4560.000	957.871	957.759	-0.112
4570.000	957.818	957.797	-0.021
4580.000	957.741	957.835	0.094
4590.000	957.690	957.873	0.183
4600.000	957.673	957.911	0.238
4600.917	957.672	957.914	0.242
4610.000	957.676	957.954	0.278
4619.902	957.741	958.012	0.271
4620.000	957.742	958.012	0.270
4620.133	957.744	958.013	0.269
4620.917	957.753	958.018	0.265
4625.000	957.796	958.047	0.251
4625.392	957.797	958.050	0.253
4627.131	957.803	958.062	0.259
4630.000	957.818	958.085	0.267
4630.775	957.826	958.091	0.265
4635.000	957.873	958.126	0.253
4640.000	957.929	958.171	0.242
4640.917	957.938	958.180	0.242
4645.000	957.981	958.218	0.237
4650.000	958.040	958.266	0.226
4650.524	958.047	958.271	0.224
4655.000	958.105	958.313	0.208
4656.105	958.122	958.323	0.201
4659.673	958.179	958.356	0.177
4660.000	958.184	958.359	0.175
4670.000	958.266	958.433	0.167
4680.000	958.334	958.485	0.151
4681.105	958.342	958.490	0.148
4690.000	958.377	958.514	0.137
4697.907	958.393	958.522	0.129
4700.000	958.397	958.521	0.124

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL
0.00 5.00 10.00 15.00 20.00 25.00
SCALE 1:500

VERTICAL
0.00 2.00 4.00 6.00 8.00 10.00
SCALE 1:200

CHECKED: DATE:
DESIGNER

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CHECKED: DATE:
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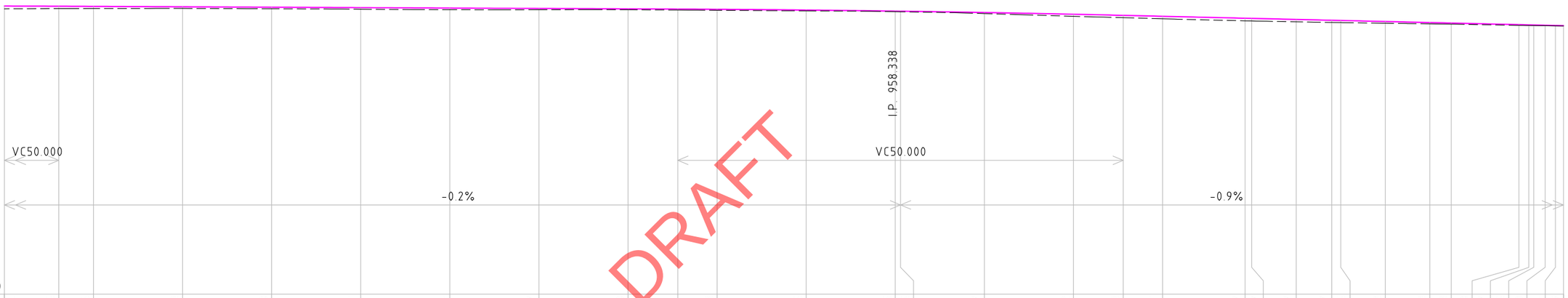
MC-01 LONGITUDINAL SHEET 27 OF 29

SURVEYED: BSA
CLIENT REP: MG
DESIGNED: AF
JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM
A.H.D.
SCALES AS SHOWN
A3
DRAWING NO.
1455-226



CONTROL LINE CUT / FILL	0.124	0.105	0.096	0.073	0.070	0.071	0.074	0.057	0.040	0.041	0.043	0.035	0.025	0.025	0.047	0.092	0.103	0.111	0.117	0.117	0.107	0.097	0.095	0.078	0.058	0.048	0.030	0.027	0.025	0.020	0.014	0.009
DESIGN SURFACE	958.521	958.514	958.507	958.488	958.470	958.451	958.432	958.414	958.395	958.385	958.375	958.342	958.295	958.291	958.232	958.154	958.104	958.063	957.976	957.969	957.922	957.884	957.875	957.828	957.781	957.759	957.687	957.677	957.672	957.660	957.649	957.640
EXISTING SURFACE	958.397	958.409	958.411	958.415	958.400	958.380	958.358	958.357	958.355	958.344	958.332	958.307	958.270	958.266	958.185	958.062	958.001	957.952	957.859	957.852	957.815	957.787	957.780	957.750	957.723	957.711	957.657	957.650	957.647	957.640	957.635	957.631
CHAINAGE	4700.000	4706.105	4710.000	4720.000	4730.000	4740.000	4750.000	4760.000	4770.000	4775.592	4780.000	4790.000	4800.000	4800.592	4810.000	4820.000	4825.592	4830.000	4839.258	4840.000	4845.000	4848.990	4850.000	4855.000	4860.000	4862.394	4870.000	4871.106	4871.659	4872.941	4874.096	4875.000

HORIZONTAL GEOMETRY: L=179.585 B=12°58'45" | 4839.258 | L=23.136 R=720.000 | 4862.394 | L=10.547 R=55.000 B=14°49'12" | 4872.9729

SUPER ELEVATION: R-3% L-3% | R-4% | R-4% | R-5% | R-5% | R-5% | R-6%

LONGITUDINAL SECTION - MC01

SCALE: 1:500H 1:200V (A3)

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REV	DATE	DESCRIPTION
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B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

HORIZONTAL 0.00 5.00 10.00 15.00 20.00 25.00 SCALE 1:500

VERTICAL 0.00 2.00 4.00 6.00 8.00 10.00 SCALE 1:200

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MC-01 LONGITUDINAL SHEET 28 OF 29

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D. | SCALES AS SHOWN

A3 | DRAWING NO. 1455-227

DRAINAGE SCHEDULE

PAGE #	UNIT #	PIPE SIZE	CHAINAGE	PIPE LENGTH	INLET TYPE	OUTLET TYPE
601	SW-01	DN450	250	13.080	RAISED GRATE AND PIT	CONCRETE HEADWALL
602	SW-02	DN450	380	10.950	RAISED GRATE AND PIT	ROCK WALL OUTLET
603	SW-03	DN450	540	12.390	RAISED GRATE AND PIT	ROCK WALL OUTLET
604	SW-04	DN525	640	9.080	RAISED GRATE AND PIT	ROCK WALL OUTLET
605	SW-05	DN450	770	10.910	RAISED GRATE AND PIT	ROCK WALL OUTLET
606	SW-06	DN525	840	10.750	RAISED GRATE AND PIT	ROCK WALL OUTLET
607	SW-07	DN600	950	11.650	RAISED GRATE AND PIT	ROCK WALL OUTLET
608	SW-08	DN525	1100	12.130	RAISED GRATE AND PIT	ROCK WALL OUTLET
609	SW-09	DN450	1380	15.280	RAISED GRATE AND PIT	ROCK WALL OUTLET
610	SW-10	DN600	1535	9.350	RAISED GRATE AND PIT	ROCK WALL OUTLET
611	SW-11	DN450	1725	12.760	RAISED GRATE AND PIT	ROCK WALL OUTLET
612	SW-12	DN750	1830	14.300	RAISED GRATE AND PIT	ROCK WALL OUTLET
613	SW-13	DN600	2105	13.950	RAISED GRATE AND PIT	ROCK WALL OUTLET
614	SW-14	DN1050	2125	21.080	RAISED GRATE AND PIT	CONCRETE HEADWALL
615	SW-15	DN900	2400	27.190	RAISED GRATE AND PIT	ROCK WALL OUTLET
616	SW-16	DN525	2560	17.750	RAISED GRATE AND PIT	CONCRETE HEADWALL
617	SW-17	DN450	2680	10.190	RAISED GRATE AND PIT	ROCK WALL OUTLET
618	SW-18	DN450	2825	9.690	RAISED GRATE AND PIT	CONCRETE HEADWALL
619	SW-19	DN525	2980	16.910	CONCRETE HEADWALL	ROCK WALL OUTLET
620	SW-20	DN600	3090	12.690	CONCRETE HEADWALL	CONCRETE HEADWALL
621	SW-21	3x DN750	3615	27.050	CONCRETE HEADWALL	CONCRETE HEADWALL
622	SW-22	DN600	3825	14.880	RAISED GRATE AND PIT	CONCRETE HEADWALL
623	SW-23	DN600	3985	13.310	RAISED GRATE AND PIT	ROCK WALL OUTLET
624	SW-24	DN600	4060	12.800	RAISED GRATE AND PIT	CONCRETE HEADWALL
625	SW-25	DN525	4155	10.670	RAISED GRATE AND PIT	ROCK WALL OUTLET
626	SW-26	DN450	4235	10.420	RAISED GRATE AND PIT	ROCK WALL OUTLET
627	SW-27	DN750	4345	13.280	CONCRETE HEADWALL	CONCRETE HEADWALL
628	SW-28	DN525	4410	11.210	CONCRETE HEADWALL	CONCRETE HEADWALL
629	SW-29	DN750	4620	15.540	CONCRETE HEADWALL	CONCRETE HEADWALL
630	SW-30	DN600	4745	15.060	CONCRETE HEADWALL	CONCRETE HEADWALL
631	SW-31	DN450	4875	13.630	CONCRETE HEADWALL	CONCRETE HEADWALL

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REV	DATE	DESCRIPTION
D	19/12/24	50% DESIGN SUBMISSION
C	21/03/24	20% DESIGN SUBMISSION
B	05/06/23	DESIGN OPTION 2
A	15/03/23	DESIGN OPTION 1

CHECKED: DATE:
DESIGNER

CHECKED: DATE:
SENIOR DESIGN & PROJECT ENGINEER

CHECKED: DATE:
CLIENT REPRESENTATIVE

STORMWATER DRAINAGE SCHEDULE

SURVEYED: BSA | CLIENT REP: MG | DESIGNED: AF | JOB NO: DSJN1455

TAMWORTH REGIONAL COUNCIL

NOWENDOC ROAD UPGRADE
BETWEEN OGUNBIL ROAD AND WEABONGA ROAD

DATUM: A.H.D.
SCALES AS SHOWN
DRAWING NO.
A3
1455-600

A3

CREST STABILISATION (REFER DRG PSM4845-013):

SOIL PROFILE (NOTE 3)	INDICATIVE CREST STABILISATION	PERCENTAGE OF CREST FACE AREA TO BE STABILISED (NOTE 5)
S	LOCALISED SHOTCRETE AND SOIL NAILS / DOWELS AS INSTRUCTED BY GDR	15%
M	2 ROWS OF NAILS AND SHOTCRETE AS INSTRUCTED BY GDR	50%
D	3+ ROWS OF NAILS AND SHOTCRETE AS INSTRUCTED BY GDR	65%

INDICATIVE ROCK STABILISATION QUANTITIES (NOTE 5 AND REFER DRG PSM4845-014):

TYPE	TOPPLING SUSCEPTIBILITY	CUT HEIGHT (m)	BOLT PER 20 m INTERVAL	SHOTCRETE BY FACE AREA	ROCKFALL FENCE	DRAIN HORIZONTAL SPACING C/C (m)
TYPE A2	LOW	2 TO 6	2 BOLTS	NOT ANTICIPATED	NO	NOT ANTICIPATED
TYPE A3		< 10	4 BOLTS	NOT ANTICIPATED	NO	NOT ANTICIPATED
TYPE B2	MEDIUM	2 TO 6	4 BOLTS	5%	NO	EVERY 20
TYPE B3		< 10	8 BOLTS	15%	YES	EVERY 10
TYPE C2	HIGH	2 TO 6	8 BOLTS	10%	NO	EVERY 8
TYPE C3		< 10	16 BOLTS	30%	YES	EVERY 5

CUT STABILISATION SCHEDULE:

CUT ID		FROM	TO	CREST SOIL DEPTH	TOPPLING SUSCEPTIBILITY	CUT SLOPE ANGLE (°) (NOTE 7)	TYPICAL SLOPE HEIGHT (m)	TYPICAL STABILISATION TYPE	MAX SLOPE HEIGHT (m)	STABILISATION TYPE AT MAX HEIGHT	ASSOCIATED CULVERT ID (NOTE 6)
1		450	650	S	HIGH	55-60	3	C2	4	C2	SW-03, SW-04
2		650	850	S	HIGH	55-60	4	C2	5	C2	SW-05,SW-06
3		850	1030	S	MEDIUM	55-60	5.5	B2	7	B3	SW-07
4		1430	1600	S	LOW	65	5	A2	7.5	A3	SW-10
5	5A	1600	1710	S	LOW	65	6	A3	7	A3	-
	5B	1710	1830	D	HIGH	60-65	5	C2	7.5	C3	SW-11, SW-12
	5C	1830	1920	S	HIGH	60	5	C2	10.5(9)	C3	-
6	6A	1920	1950	S	HIGH	60	6	C3	7	C3	-
	6B	1950	2010	S	LOW	60	6.5	A3	10.5(9)	A3	-
	6C	2010	2100	D	HIGH	60	7	C3	11.5(9)	C3	-
7		2130	2320	S	HIGH	55	7.5	C3	11.5(9)	C3	-
8		2380	2400	M	LOW	60	4	A2	6	A2	SW-15
9		2410	2550	S	HIGH	55-60	4	C2	7.5	C3	-
10		3520	3600	S	LOW	55	6	A3	7.5	A3	-

NOTES:

1. FOR GENERAL NOTES REFER TO DRG. PSM4845-002 & PSM4845-003.
2. CREST STABILISATION INDICATIVE ONLY. TO BE CONFIRMED BY GDR.
3. SOIL PROFILE IS DEFINED AS:
   - S = SHALLOW (NOMINALLY <0.5m TO ROCK)
   - M = MODERATE (NOMINALLY 0.5m TO 1.5m TO ROCK)
   - D = DEEP (NOMINALLY 1.5m TO 3m TO ROCK)
4. THE CUT STABILISATION SCHEDULE EXCLUDES CUTS WITH LOW LIKELIHOOD OF STABILISATION BEING REQUIRED AS FOLLOWS;
   - CUT AT 1H:1V OR FLATTER
   - TYPE A1, B1, C1 CUT TYPES: DEFINED AS <2m CUT HEIGHT
   - SIMILAR ADOPTED SLOPE ANGLE TO EXISTING SLOPE
   - FLAT CREST AREA (<15°) PERMITTING SLOPE FLATTENING DURING CONSTRUCTION
5. CUT STABILISATION QUANTITIES ARE AN ESTIMATE FOR PLANNING PURPOSES ONLY. THE ACTUAL STABILISATION WILL VARY BASED ON ENCOUNTERED CONDITIONS AND AS DIRECTED BY THE GDR.
6. REFERENCE SHOULD BE MADE TO THE TRC CIVIL DESIGN FOR FURTHER DETAILS REGARDING THE CUT STABILISATION TREATMENTS AT CULVERT LOCATIONS.
7. SLOPE ANGLE IS FOR INFORMATION ONLY. REFER TO THE TRC CIVIL DRAWINGS FOR DESIGN CUT SURFACE. SLOPE ANGLE IS A FUNCTION OF CUT LOCATION, TOPPLING SUSCEPTIBILITY AND SLOPE HEIGHT. WHERE A RANGE IS SHOWN, THIS REFLECTS THAT A CUT'S HEIGHT CROSSES A SLOPE ANGLE THRESHOLD.
8. REFER TO PSM4845-013 FOR HORIZONTAL DRAIN DETAILS.
9. CUT LOCALLY > 10m. WHERE > 10m, BENCH MAY BE REQUIRED SUBJECT TO FURTHER ASSESSMENT DURING CONSTRUCTION.

NOT FOR CONSTRUCTION USE

REV	DATE	REVISION DESCRIPTION	REV BY	CHCKD
A	22-Apr-2025	DRAFT - EOI ISSUE		
DRAFT	18-Feb-2025	DRAFT		

TAMWORTH CITY COUNCIL
NOWENDOC ROAD UPGRADE
CONCEPT DESIGN FOR EOI STAGE

CUT SLOPE SCHEDULE

DESIGNED: K.LIM		APPROVED:	
DRAWN: D.RECHSTEINER		DATE: 22-Apr-25	
SCALE:		PLOT DATE: 3-Jun-25	
XREF:		CAD FILE:	
PSM4845-010			REV: A

A3

NOTES:

1. FOR GENERAL NOTES REFER TO DRG. PSM4845-002 & PSM4845-003.
2. WALL HEIGHT IS INDICATIVE ASSUMING WALL FOUNDATION IS FOUNDED AT "TOP OF ROCK" AS INFERRED FROM THE GIR. HEIGHT WILL BE SUBJECT TO CONFIRMATION DURING FOUNDATION INVESTIGATION AND PREPARATION.
3. REFER TO TRC CIVIL DRAWINGS FOR WALL ELEVATIONS SHOWING ESTIMATED HEIGHT.
4. REFERENCE SHOULD BE MADE TO THE TRC CIVIL DRAWINGS REGARDING THE CULVERT OUTLET WORKS.
5. WALL FOUNDATION CONDITIONS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT OF BULK EXCAVATIONS. THE FOUNDATION TYPE WILL BE CONFIRMED BY THE GDR AS A HOLD POINT.
6. WALL TYPE VARIES ACCORDING TO EXTENT OF ROCK EXCAVATION TO FORM THE FOUNDATION AS FOLLOWS:

   TYPE 1: SHALLOW ROCK FOUNDATION EXCAVATION NOMINALLY UP TO 1.5m DEEP.

   TYPE 2: DEEP ROCK FOUNDATION EXCAVATION NOMINALLY IN EXCESS OF 1.5m DEPTH.

   TYPE 3: ROCK FOUNDATION NOT PRESENT AT TOE OF WALL REQUIRING SUPPLEMENTARY FOUNDATION TREATMENT. NOT NOMINATED, BUT MAY OCCUR.
7. WHERE RETAINING WALL RECONSTRUCTION TIES INTO THE EXISTING WALL, THE CONTRACTOR SHALL PROTECT THE EXISTING WALL. TIE IN DETAILS TBC DURING CONSTRUCTION.

RETAINING WALL FOR GEOTECH REMEDIATION SCHEDULE:

WALL ID	CH FROM	CH TO	ESTIMATED WALL LENGTH (m)	ESTIMATED RETAINED HEIGHT, H (m) (NOTE 3)	WALL TYPE (NOTE 6)	CULVERT ID. (NOTE 4)
RW-01-N1	535	560	20	2.2 - 2.8	TYPE 1	SW-03
RW-01-N2	620	650	30	2.4 - 3.1	TYPE 1	SW-04
RW-02-N1	830	850	20	4.7 - 4.9	TYPE 1	SW-06
RW-02-N2	920	940	20	2.2	TYPE 1	-
RW-03-N1	1475	1490	15	6.4 - 7.3	TYPE 2	-
RW-03-N2	1510	1560	50	2.5 - 2.8	TYPE 1	SW-10
RW-04/05-N1	1715	1755	40	2.4 - 3.5	TYPE 1	SW-11
RW-04/05-N2	1800	1840	40	5.2 - 5.6	TYPE 2	SW-12
RW-04/05-N3	1840	1870	40	7.3 - 8	TYPE 2	SW-12
RW-09-N1	2045	2070	25	2.3 - 4.7	TYPE 2	-
RW-10-N1	2150	2190	40	5.8 - 6.3	TYPE 2	-
RW-10-N2	2190	2250	60	2.8 - 3.4	TYPE 2	-
RW-10-N3	2250	2270	20	4.1	TYPE 2	-
RW-12-N1	2430	2450	20	3.6	TYPE 1	-
RW-15-N1	3495	3515	20	3.5 - 4.5	TYPE 2	-

RETAINING WALL FOR CULVERT OUTLET RECONSTRUCTION SCHEDULE:

WALL ID	CH FROM	CH TO	ESTIMATED WALL LENGTH (m)	ESTIMATED RETAINED HEIGHT, H (m) (NOTE 3)	WALL TYPE (NOTE 6)	CULVERT ID. (NOTE 4)
RW-02-C1	760	775	15	1.9	TYPE 1	SW-05
RW-02-C2	945	965	20	4.2	TYPE 1	SW-07
RW-02-C3	1090	1115	25	5.3	TYPE 1	SW-08
RW-02-C4	1365	1385	20	3.5	TYPE 1	SW-09
EM-03-C1	3960	3975	15	2.7	TYPE 1	SW-23

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A	22-Apr-2025	DRAFT - EOI ISSUE		
DRAFT	18-Feb-2025	DRAFT		

TAMWORTH CITY COUNCIL
NOWENDOC ROAD UPGRADE
CONCEPT DESIGN FOR EOI STAGE

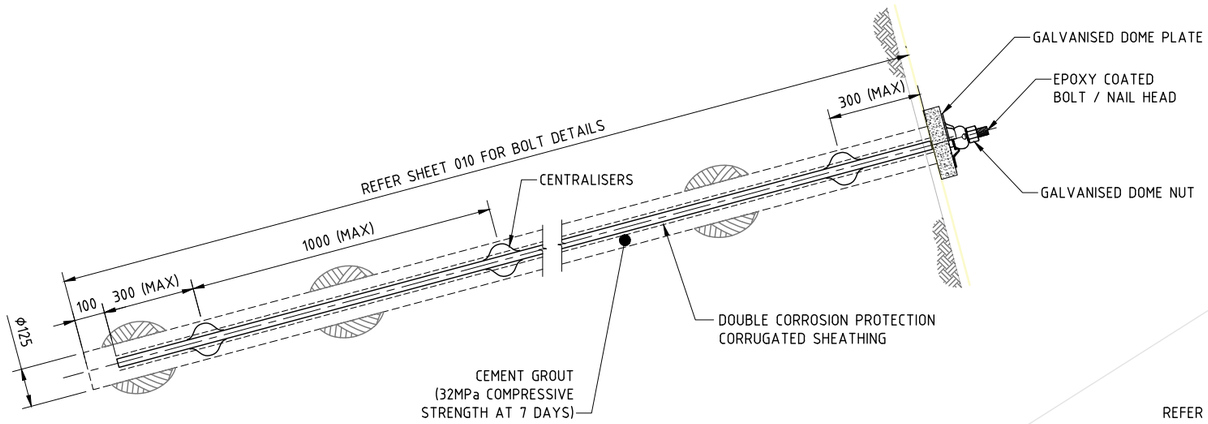
RETAINING WALL SCHEDULE

DESIGNED: K.LIM	APPROVED:
DRAWN: D.RECHSTEINER	DATE: 22-Apr-25
SCALE:	PLOT DATE: 1-Aug-25
XREF:	CAD FILE:
PSM4845-011	REV: A

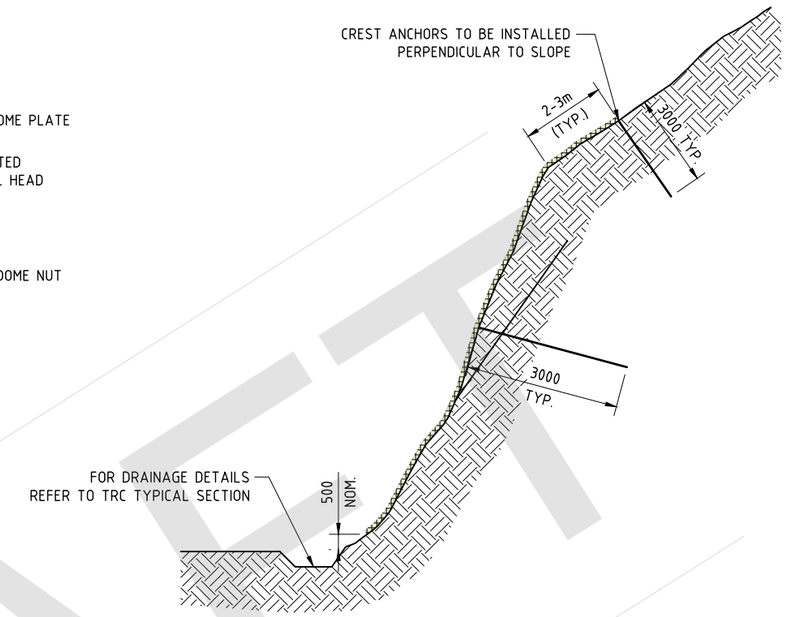
A3

NOTES:

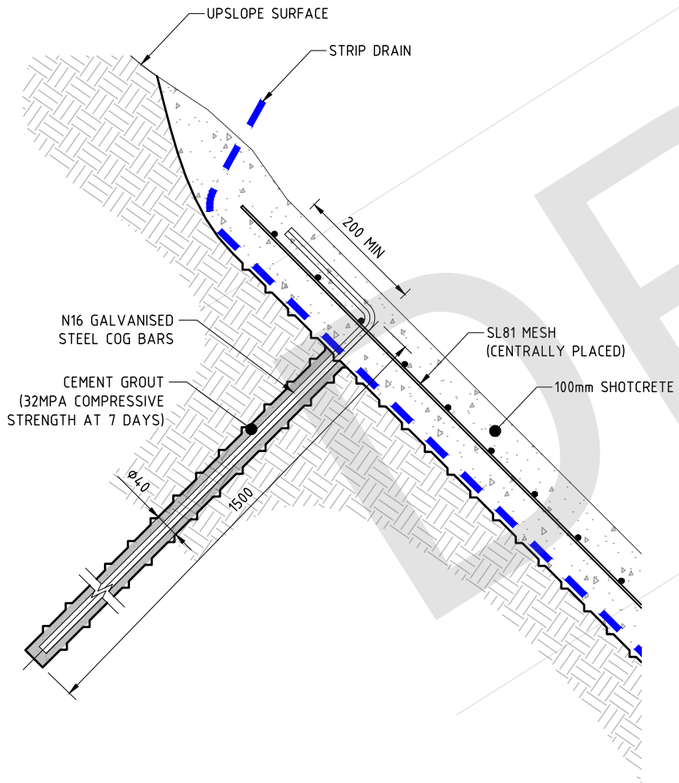
1. FOR GENERAL NOTES REFER TO DRG. PSM4845-002 & PSM4845-003.
2. PROVIDE APERTURE FOR BOTTOM ROPE IN DRAPE MESH TO ALLOW PARTICLES TO FALL OUT OF MESH FOR EASE OF MAINTENANCE.
3. GALVANIZED STEEL COG BARS SHOWN IN ROCK SHOTCRETE FACING WITHOUT ROCK BOLTS ARE ONLY REQUIRED FOR SHOTCRETE ON ROCK. SPACING TO BE CONFIRMED DURING CONSTRUCTION SUBJECT TO SHAPE AND AREA.



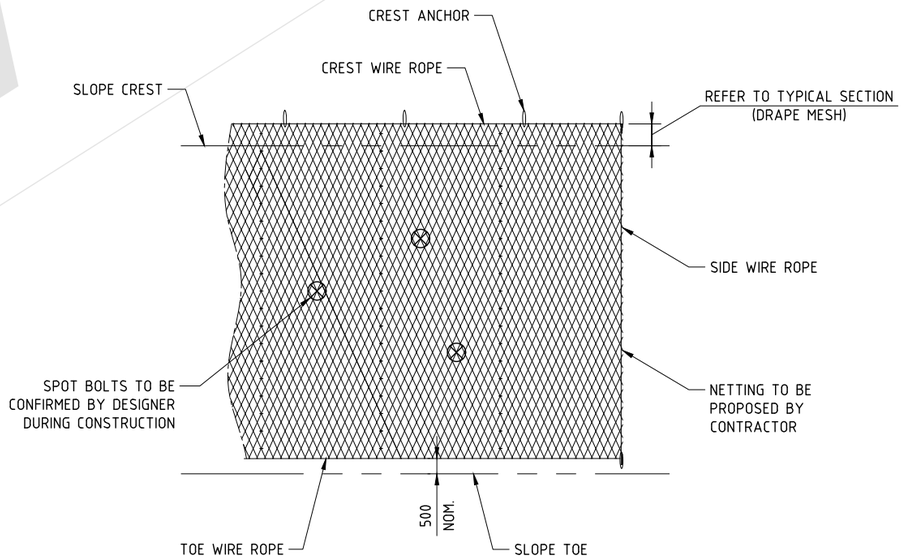
TYPICAL ROCK BOLT / SOIL NAIL
SCALE 1:20



TYPICAL SECTION (DRAPE MESH)
SCALE 1:200



ROCK SHOTCRETE FACING WITHOUT ROCK BOLTS
SCALE: 1:10



SYSTEM WIDE OVERVIEW - ELEVATION VIEW (DRAPE MESH)
NOT TO SCALE

NOT FOR CONSTRUCTION USE

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A	22-Apr-2025	DRAFT - EOI ISSUE		
DRAFT	18-Feb-2025	DRAFT		

TAMWORTH CITY COUNCIL
NOWENDOC ROAD UPGRADE
CONCEPT DESIGN FOR EOI STAGE

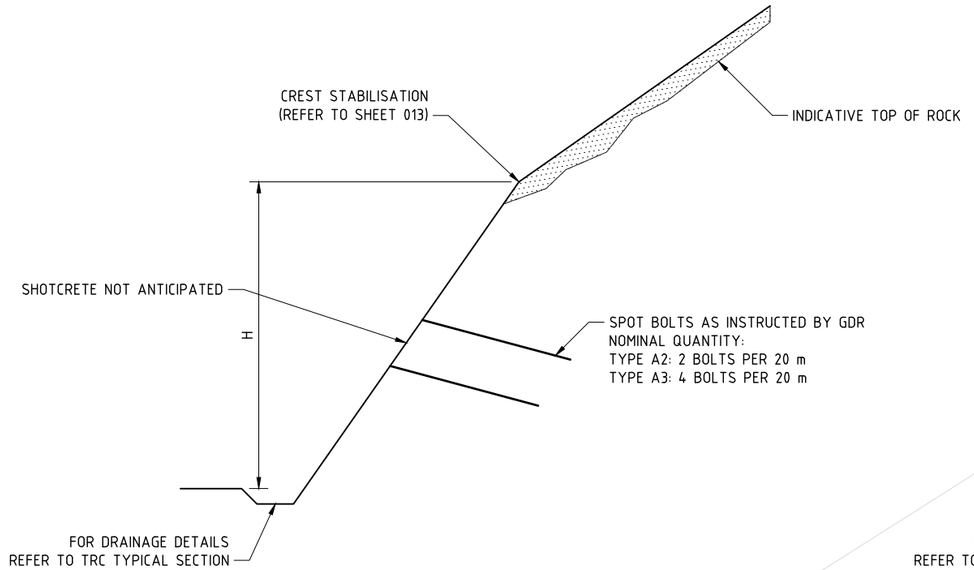
TYPICAL SECTIONS AND DETAILS - CUTTING 1

DESIGNED:	K.LIM	APPROVED:	
DRAWN:	D.RECHSTEINER	DATE:	22-Apr-25
SCALE:		PLOT DATE:	27-May-25
XREF:		CAD FILE:	
PSM4845-012		REV:	A

A3

NOTES:

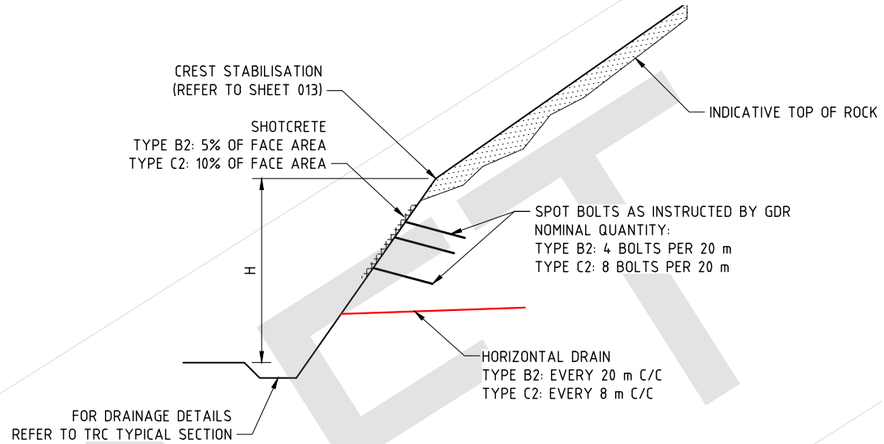
1. FOR GENERAL NOTES REFER TO DRG. PSM4845-002 & PSM4845-003.
2. BOLT LENGTH TO BE NOMINALLY 2m TO 6m.
3. REFER TO DRG PSM4845-010 FOR CUT STABILISATION SCHEDULE.



CUT STABILISATION (TYPE A2, A3)

TYPE A2: H < 6m, TYPE A3: H < 10m

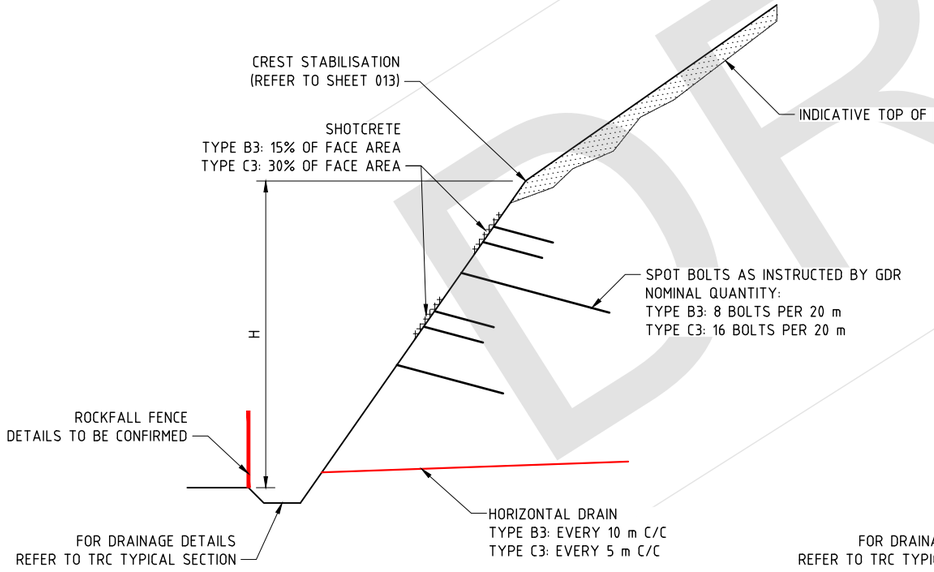
SCALE 1:200



CUT STABILISATION (TYPE B2 AND C2)

H < 6m

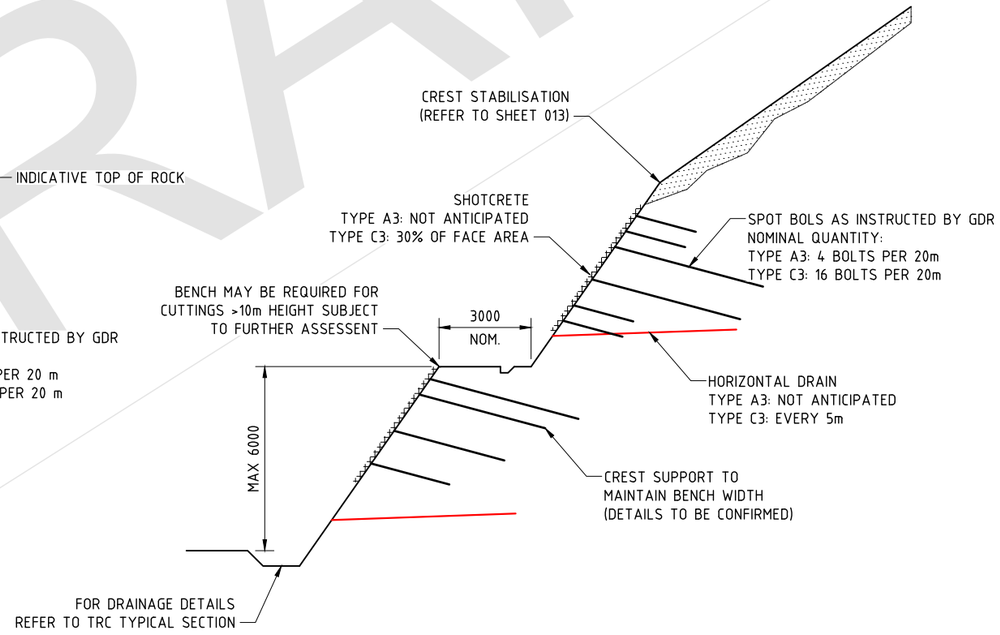
SCALE 1:200



CUT STABILISATION (TYPE B3 AND C3)

H < 10m

SCALE 1:200



CUT STABILISATION (TYPE A3 AND C3)

H > 10m

SCALE 1:200

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DRAFT	18-Feb-2025	DRAFT		

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REGIONAL COUNCIL Tamworth

TAMWORTH CITY COUNCIL
NOWENDOC ROAD UPGRADE
CONCEPT DESIGN FOR EOI STAGE

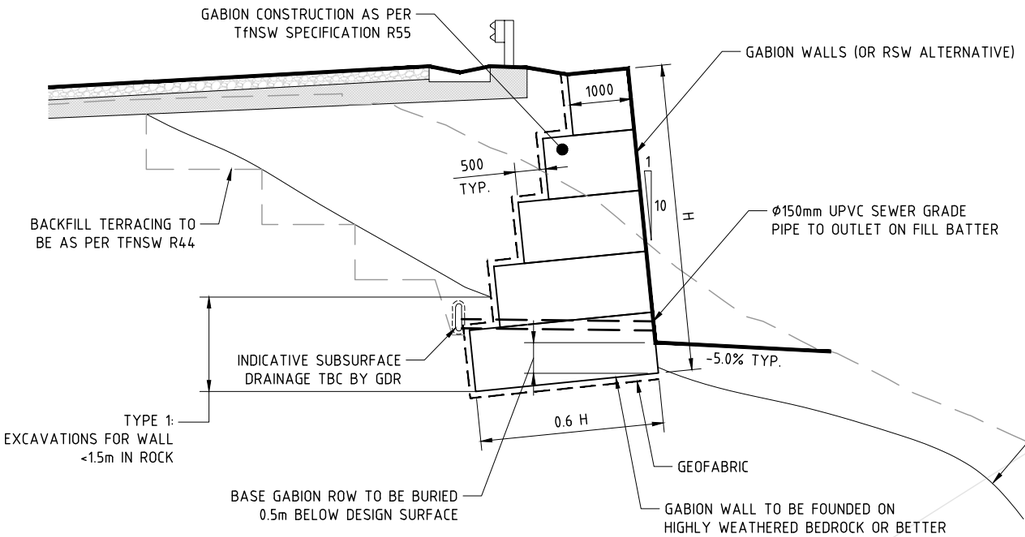
TYPICAL SECTIONS AND DETAILS - CUTTING 3

DESIGNED: K.LIM	APPROVED:
DRAWN: D.RECHSTEINER	DATE: 22-Apr-25
SCALE:	PLOT DATE: 27-May-25
XREF:	CAD FILE:
PSM4845-014	REV: A

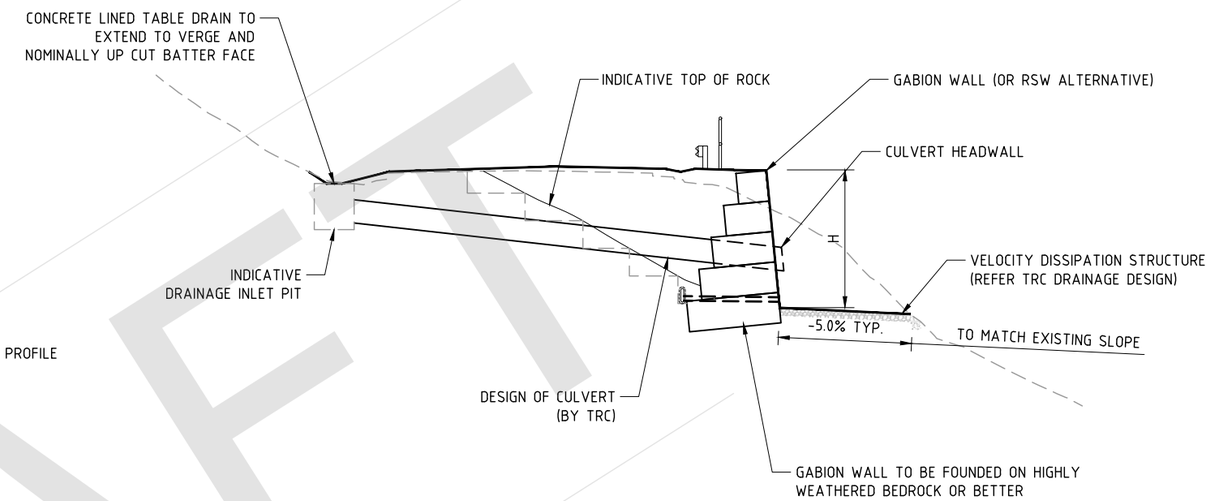
A3

NOTES:

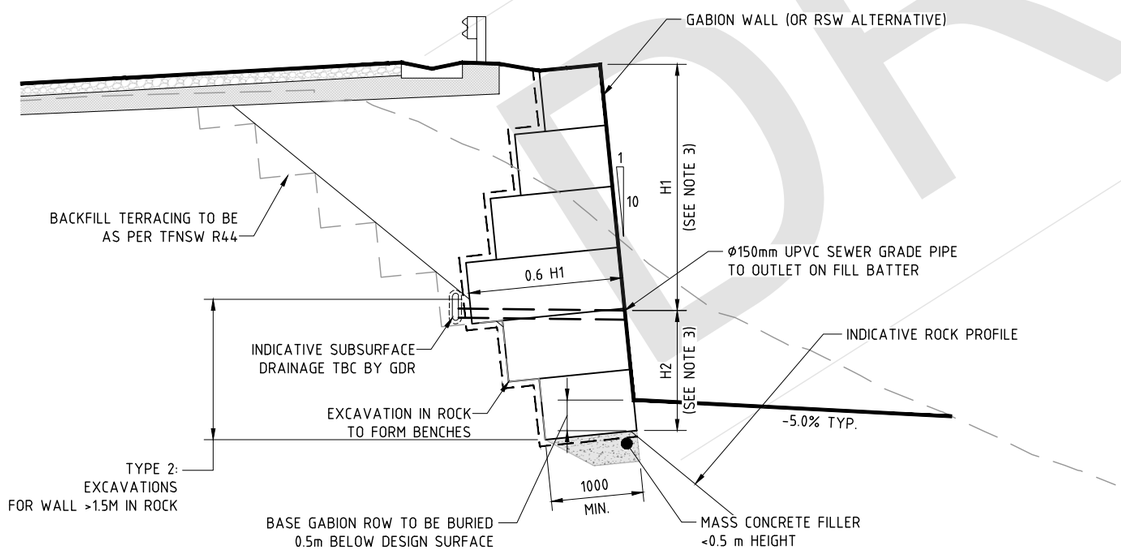
1. FOR GENERAL NOTES REFER TO DRG. PSM4845-002 & PSM4845-003.
2. REINFORCED SOIL WALL (RSW) CAN BE ADOPTED IN-LIEU OF GABION WALLS SHOWN. RSW TO BE PROPRIETY PRODUCT WITH FACINGS TO BE CONFIRMED.
3. H1 AND H2 IS TO BE CONFIRMED DURING CONSTRUCTION AS PART OF THE RETAINING WALL FOUNDATION INVESTIGATION HOLD POINT.



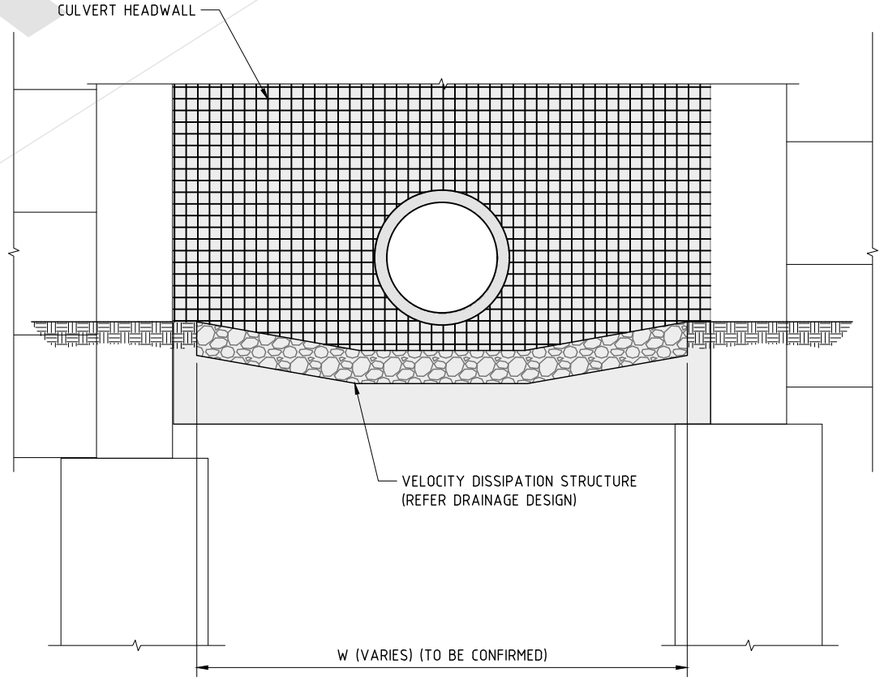
TYPICAL GABION WALL (TYPE 1) (SHALLOW ROCK FOUNDATION EXCAVATION, NOMINALLY <1.5m)
SCALE 1:100



TYPICAL SECTION (WITH CULVERT)
SCALE 1:200



TYPICAL GABION WALL (TYPE 2)
SCALE 1:100



CULVERT ELEVATION (REFER TRC DESIGN)
NTS

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A	22-Apr-2025	DRAFT - EOI ISSUE		
DRAFT	18-Feb-2025	DRAFT		

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Tamworth REGIONAL COUNCIL

TAMWORTH CITY COUNCIL
NOWENDOC ROAD UPGRADE
CONCEPT DESIGN FOR EOI STAGE

TYPICAL SECTIONS AND DETAILS - RETAINING WALL 1

DESIGNED: K.LIM	APPROVED:
DRAWN: D.RECHSTEINER	DATE: 22-Apr-25
SCALE:	PLOT DATE: 3-Jun-25
XREF:	CAD FILE:
PSM4845-016	REV: A