



Anambah Subdivision, Gosforth NSW

Thirdi Communities

Waste Management Plan

JBS&G 67816 | 161,967

29 August 2024





We acknowledge the Traditional Custodians of Country throughout Australia and their connections to land, sea and community.

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte

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1. Introduction

JBS&G Australia Pty Ltd (JBS&G) has been engaged by Vara Consulting on behalf of Thirdi Communities (the client) to prepare a Waste Management Plan (WMP) as part of a concept development application (CDA) for the planned subdivision of 559 Anambah Road, Gosforth NSW (the site) approximately 37km north west of Newcastle. The site for the works is legally identified as Lot 55 Deposited Plan (DP) 874170 and part of Lot 177/DP 874171.

The DA seeks development consent for the ‘Stage 1’ subdivision of the site, including site preparation (civil works, vegetation removal, stormwater basin installations), construction works (roads, paths, cycleways), installation of utilities and landscaping works (the Proposal). Future stages will be determined under separate DAs.

This WMP will only apply to Stage 1 of the design drawings (**Appendix A**). Development applications for subsequent stages will also require a WMP once the details of those stages are defined.

1.1 Background

The Project is for a CDA seeking concept approval for the staged development of the concept master plan, and for which detailed proposals for the Site or for separate parts of the site are to be subject of subsequent Development Applications (DAs), apart from stage 1.

The masterplan creates a new urban subdivision within the Anambah Urban Release Area accommodating a mix of housing types with approximately 900 residential lots, and incorporates open space, roads, pedestrian networks, utilities and services, intersection upgrades and drainage infrastructure.

The application includes a development application for stage 1, which is made up of approximately 240 lots. This stage includes the subdivision of the land, construction of the lots including roads, services, bulk earth works and dedication of reserves. The application includes an intersection to provide access into the development via Anambah Road together with an emergency flood access to be constructed via the unformed River Road.

1.2 Purpose

The purpose of this WMP is to provide an outline of the considerations regarding waste during site preparation and construction phases of the Proposal with respect to types, estimated volumes and potential reduction opportunities. This management plan will assist the planned Development Application (DA) with Maitland City Council (Council).

Upon approval of the DA, a more detailed Waste Management Plan will be prepared to meet requirements of the consent conditions.

1.3 Scope

In accordance with the *Maitland Development Control Plan 2011* (MDCP), this waste management plan will align with the requirements outlined in ‘Section B.6 – Waste Not – Site Waste Minimisation & Management’. Requirements for the preparation of a Waste Minimisation Management Plan set out in the MDCP is outlined in **Table 1-1** below.

Table 1-1: MDCP Requirements and how they are addressed in this WMP

Maitland DCP Requirements	Where addressed
The volume and type of waste and recyclables to be generated.	Section 4

The storage and treatment of waste and recyclables on site.	Section 5
The disposal of residual waste and recyclables.	Section 5.3
The operational procedures for ongoing waste management once the development is completed, including the nominated waste management service provider.	Not applicable to this development

This WMP will also review industry guidance on waste generation rates during construction. Further information on industry guidance is provided in **Section 3**.

1.4 Objectives

The objectives of the WMP are to identify each of the potential wastes generated during earthworks prior to subdivision, and to provide procedures for the management of wastes or reuse of materials during the works in accordance with Council's DCP requirements.

2. Project Description

The site, located at 559 Anambah Road, Gosforth NSW is currently a rural zone used for rural landscape and agricultural purposes. The proposal seeks to subdivide the area through various site preparation, construction and installation works, outlined more in **Section 2.2**.

2.1 Location and Site Layout

Information relating to the site is provided in **Table 2-1** below.

Table 2-1: Site Details

Site Address	559 Anambah Road, Gosforth NSW 2320
Lot/DP	Lot 55/DP 874170 Part Lot 177/DP 874171
Local Government	Maitland City Council
Local Environmental Plan	Maitland Local Environmental Plan 2011 (MLEP 2011)
Zoning	R1 General Residential, RU2 Rural Landscape.
Surrounding Land Zoning	The immediate surrounds of the Site are zoned as RU1 Primary Production (north and west), RU2 Rural Landscape (east) and R1 General Residential and C4 Environmental Living (south). The Site is approximately 37km north west of Newcastle and is situated directly to the east of the Hunter River.

2.2 Project Scope of Works

The DA is for the 'Stage 1' subdivision of a site in which site preparation, construction and installation works are to be undertaken. The associated works will comprise the following:

- Site preparation works including vegetation removal, civil earthworks (cut and fill), installation of storm water basins,
- Construction of roads, paths, cycleways and stormwater infrastructure,
- Installation of utilities (power, water, gas and telecommunications), and
- Landscaping works.

Detailed design drawings are provided in **Appendix A** under Stage 1 works. Development applications for subsequent stages will also require a WMP.

2.3 Existing Environment

The footprint of the works described in **Section 2.2** above occupy sections of Lot 55/DP 874170 and Lot 177/DP 874171. The surrounding area comprises of other general residential areas and agricultural land.

A review of the NSW Spatial Information eXchange website (SIXMaps)¹ regional topography show the site to be at a slight gradient to the north west, with elevations of approximately 30 metres Australian Height Datum

¹ Department of Customer Service (2024). Retrieved from Spatial Information eXchange at <https://maps.six.nsw.gov.au/>

(mAHD) to 50 mAHD. The site only has one access point through Anambah Road, along the east site boundary, however the CDA proposes a secondary, emergency access via the existing River Road reserve to the south.

Aerial imagery indicates the presence of scattered vegetation found with the proposed site area, with denser vegetation along the west. The MLEP 2011 Acid Sulfate Soils map indicates the site is situated within a Class 5 Acid Sulfate Soils area.

3. Legislative Requirements and Guidelines

3.1 Legislation

This WMP has been prepared in accordance with the requirements of the NSW *Waste Avoidance and Resource Recovery Act 2001* (WARR Act), and the NSW *Protection of the Environment Operations Act 1997* (POEO Act). These and other key legislation relevant to waste management at the site are provided in **Table 3-1**.

Table 3-1: NSW Waste Legislation Summary

Legislation	Purpose
<p><i>Protection of the Environment Operations Act 1997 (POEO Act)</i></p> <p><i>Protection of the Environment Operations (General) Regulation 2009</i></p>	<p>The POEO Act is the key piece of environment protection legislation administered by the NSW Environment Protection Authority (EPA). The object of the Act is to achieve the protection, restoration and enhancement of the quality of the NSW environment.</p> <p>The Act provides a definition of ‘waste’ for regulatory purposes, along with a list of activities that require an environmental protection licence (EPL).</p> <p>The POEO Act enables the Government to establish policy instruments for setting environmental standards, goals, protocols and guidelines.</p> <p>All material to be excavated and removed from the site (including associated activities such as classification) are required to be undertaken in accordance with the requirements of the POEO Act, including:</p> <ul style="list-style-type: none"> • Ensuring waste is classified appropriately and in accordance with relevant guidelines; • Waste materials are disposed of, to appropriately licensed facilities; and • Other materials are removed to facilities lawfully able to accept such materials.
<p><i>Protection of the Environment Operations (Waste) Regulation 2014</i></p>	<p>The POEO (Waste) Regulation outlines requirements relating to non-licensed waste activities and waste transporting. The proposed works on the site will not be required to be licensed.</p> <p>The Regulation requires that wastes are stored in an environmentally safe manner and that vehicles used to transport waste must be covered when loaded.</p> <p>The Regulation exempts certain waste streams from the full waste tracking and record keeping requirements. Waste tracking is required only for industrial and hazardous wastes. However, these are not anticipated to be present on the site based on the assessment of soils and associated materials as requiring remediation and/or off-site disposal.</p>

<p><i>Waste Avoidance and Resource Recovery Act 2001 (WARR Act)</i></p>	<p>The WARR Act promotes waste avoidance and resource recovery to achieve a continual reduction in waste generation, provides for development of a state-wide Waste Strategy, and introduces a scheme to promote extended producer responsibility for the life cycle of a product. Objectives of the Act include:</p> <ul style="list-style-type: none"> • To encourage the most efficient use of resources and to reduce environmental harm; • To ensure that resource management options are considered against a hierarchy; • Provide for the continual reduction in waste generation; • To minimise the consumption of natural resources and the final disposal of waste; • To ensure that industry shares with the community the responsibility for reducing and dealing with waste; and • To assist in the achievement of the objectives of the POEO Act.
<p><i>Environmental Planning and Assessment Act 1979</i> <i>Environmental Planning and Assessment Regulation 2000</i></p>	<p>The EP&A Act and its regulation provide the overarching structure for planning in NSW. They provide for a number of other statutory documents to support the planning structure, including State Environmental Planning Policies and Local Environmental Plans. The objectives include:</p> <ul style="list-style-type: none"> • The proper management, development and conservation of natural and artificial resources; and • To encourage ecologically sustainable development.
<p><i>Contaminated Land Management Act 1997</i> <i>Contaminated Land Management Regulation 2013</i></p>	<p>This Act establishes a process for investigating and (where appropriate) remediating land that the EPA considers to be contaminated significantly enough to require regulation.</p>

3.2 Guidelines

Guidance documents and policies considered in the preparation of this WMP are included in **Table 3-2**.

Table 3-2: NSW Guidance Summary

Guideline	Purpose
<p><i>NSW Environment Protection Authority (EPA) Waste Classification Guidelines 2014 (EPA 2014)</i></p>	<p>The Waste Classification Guidelines have been established by the NSW EPA to assist waste generators to classify wastes. Wastes are classified into groups that pose similar risks to environment and human health. Waste classifications are discussed further in Section 4.2.</p>
<p><i>A management toolkit: Construction and demolition waste (EPA 2020)</i></p>	<p>The toolkit provides guidance on how to reduce the risk of unlawful or fraudulent behaviour by contractors and subcontractors during the tender, contract and project management phases of construction and demolition projects.</p>

<p><i>NSW EPA’s Waste and Sustainable Materials (WSM) Strategy 2041, Stage 1: 2021-2027</i></p>	<p>The WSM strategy aims to continually improve the state’s policies and targets for waste reduction and landfill diversion. Stage 1 of the strategy sets the following targets:</p> <ul style="list-style-type: none"> • Reduce total waste generated by 10% per person by 2030; • Have an 80% average recovery rate from all waste streams by 2030; • Significantly increase the use of recycled content by governments and industry; • Phase out problematic and unnecessary plastics by 2025; • Halve the amount of organic waste sent to landfill by 2030.
<p><i>How to safely remove asbestos, SafeWork NSW Code of Practice 2016 (NSW Government)</i></p>	<p>The Code of Practice is an approved code of practice under the <i>Work Health and Safety Act 2011</i>.</p> <p>The code provides practical guidance on how to safely remove asbestos from all workplaces including structures, plant and equipment and is to be read in conjunction with <i>How to manage and control asbestos in the workplace</i> Code of Practice.</p>
<p><i>Australian Government Construction and Demolition Waste Guide, 2011</i></p>	<p>The aim of the guide is to help develop effective markets for materials diverted or derived from the construction waste stream.</p>
<p><i>Maitland Development Control Plan 2011</i></p>	<p>Under Section B.6 Waste Not – Site Waste Minimisation & Management, the objectives are as follows:</p> <ul style="list-style-type: none"> • To minimise resource requirements and construction waste through reuse and recycling and the efficient selection and use of resources, • To encourage building designs, construction and demolition techniques in general which minimise waste generation, • To assist applicants in planning for sustainable waste management, through the preparation of a site waste minimisation and management plan. This plan is to be completed in the planning stages of a development, and • To facilitate effective waste minimisation and management for development in a manner consistent with the principles of ecologically sustainable development (ESD).

4. Construction Waste Management Plan

4.1 Maitland Council Waste Minimisation Management Plan

JBS&G have completed this document to assist in identifying the type and volume of wastes anticipated to be generated as provided in **Appendix B**. Each waste type including the proposed management strategy is also outlined in **Section 4.2** below.

It is noted that for the proposed remediation and earthworks proposed, only the ‘Construction Phase’ of the Council document is considered applicable.

4.2 Waste Streams and Classification

4.2.1 Vegetation/Green Waste

Based on review of Stage 1 development plans, vegetation at the site consists of approximately 156 trees/groupings as well as grass, leaves, plants and similar materials. It is understood these materials will likely be mowed/slashed and/or mulched in site preparation works.

An estimate was calculated based on the trunk diameter and height of trees at the site, noting this information is indicative and may be revised (further details is provided in **Appendix B**).

Mulch was calculated by the following formula

$$\text{Mulch volume: } (\text{trunk diameter}/200)^2 \times 3.142 \times \text{height} / 3$$

It is estimated that the 156 trees (currently within the site boundary) will need to be removed which equates to around 79,380 m³ of wood chip. It is planned that larger trees will be taken off site and processed (such as for fire wood), and the balance will be mulched and either stockpiled on site prior to use in landscaping, or used for erosion and sediment control purposes during construction. As such the volume estimate for mulch is conservative and likely to be lower during construction.

Vegetation/green waste shall be either re-used (onsite) within the development site, or otherwise recycled off-site at a facility legally permitted to receive and use the materials.

No contamination was identified during the Preliminary Site Investigation (PSI). If there are any unexpected finds, such as ACM impacted surface vegetation, this will be disposed as asbestos waste where the ACM cannot be picked out or if it is not suitable for containment cells beneath roads.

4.2.2 Soils at the site

The site is planned to be modified by bulk earthworks to level the site. Cut/fill volumes are provided in **Table 4-1**.

Table 4-1: Cut and fill balance for the site

Cut/Fill	Stage 1 (including River Road) Subject to this WMP	Whole of site (including River Road) Subject to future approval
Total Cut	130,000 m ³	270,000 m ³
Total Fill	50,000 m ³	120,000 m ³
Balance	80,000 m ³ excess cut	150,000 m ³ excess cut

Soil will be reused on site to achieve site levels, with around 80,000 m³ of excess cut from Stage 1. It is noted that the earthworks for Stages 2-6 are preliminary only and will be resolved in more detail with subsequent development applications.

Non-impacted materials comprising site-won fill soils that meet site suitability criteria adopted and/or are characterised as virgin excavated natural material (VENM) (i.e, natural soil below fill) are anticipated to be reused in earthworks, and exported from site where in excess.

4.2.3 Excess construction materials

The following materials are to be utilised at the site to construct roads, footpaths, cycleways and utilities. The Principal Constrictor will endeavour to order the required quantum of materials, however where there is excess, the materials will need to be disposed of off-site. These materials may include:

- Concrete wastage from insitu pours (footpaths etc)
- Concrete products (e.g. concrete pipe offcuts)
- Pavement gravels
- Aggregates
- Sand
- Bitumen
- Asphalt
- PVC pipes
- Geofabrics
- Landscape materials (excess turf, unviable tubestock etc)

At this stage, a volume cannot be attributed to these potential waste streams, however it is prudent to include in this waste management plan to ensure that should any excess materials result from the development, they be managed appropriately.

5. Waste Management Requirements

5.1 Works Staging and Waste Segregation

The three material types identified in **Section 4.2** will be required to be kept segregated for the duration of the remediation works. This will be undertaken in practice by the staging of the works:

- **Vegetation:** shall be cleared or mulched as part of site preparation works;
- **Excess natural soils:** will be exported offsite in accordance with the requirements of an EPA Order or the *NSW Waste Classification Guidelines*.
- **Excess construction materials:** will be recycled or disposed of at a suitably licenced waste facility.

5.2 Characterisation of Identified Materials from a Waste Perspective

Materials which are surplus to the site will be required to be disposed off-site subject to waste classification, which may require chemical analysis to confirm classification. Waste classification of each of the identified materials in accordance with EPA (2014) *Waste Classification Guidelines* is as follows:

- Excess organic matter/ mulch may be exported offsite under the Mulch Order (2016);
- Natural soils (all other soils) are likely to be classified as 'virgin excavated natural material' (VENM) consistent with the EPA (2014) and POEO Act definitions;

Further as per the definition in the POEO Act, VENM is natural material (such as clay, gravel, sand, soil or rock fines):

- That has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities; and
- That does not contain sulfidic ores or soils, or any other waste
- Where construction materials cannot be recycled, they are pre-classified as 'Building and demolition waste'.

5.3 Waste Recycling and Disposal

Garden waste and VENM shall be either re-used (onsite) within the development site, or otherwise recycled off-site at a facility legally permitted to receive and use/recycle the materials.

Building / demolition wastes will be disposed off-site to a facility legally able to receive and recycle the materials. It is a requirement that these materials are not mixed with soils.

The proposed recycling / re-use of materials as outlined will satisfy NSW EPA waste objectives.

Materials that are designated for disposal off-site, other than those pre-classified, will require chemical analysis of materials and a waste classification letter or VENM or excavated natural material (ENM²) letter to be provided by an environmental consultant prior to off-site disposal/re-use occurring.

5.4 Waste Transporting

All wastes removed from the site shall be transported in accordance with relevant road and transportation regulatory requirements. Where required (depending on the classification of the wastes), appropriately licensed transport contractors shall be used.

The appointed transporters shall be responsible for ensuring they are appropriately licensed to:

- Carry the particular type of waste; and
- Transport the materials to an appropriately licensed facility or otherwise approved receipt site.

Materials tracking shall be undertaken for the movement of all materials and records retained to inform the validation of the site.

5.5 Received Imported Materials

Where import materials are proposed to be brought to the site for use in filling, engineering purposes or landscaping materials, they must comply with the following guidelines and procedures:

- Imported fill material must comprise virgin excavated natural material (VENM); or
- Excavated natural material (ENM); or
- Meet the requirements of an applicable EPA exemption (e.g. recovered aggregate Order 2014).

Where required, chemical analysis will be undertaken to confirm classification of material.

² Excavated Natural Materials, ENM refers to materials that meet the NSW EPA supported "The excavated natural material order 2014" Resource Recovery Order under Part 9, Clause 93 of the Protection of the Environment Operations (Waste) Regulation 2014

6. Limitations

Scope of services

This report (“the report”) has been prepared by JBS&G in accordance with the scope of services set out in the contract, or as otherwise agreed, between the Client and JBS&G. In some circumstances, a range of factors such as time, budget, access and/or site disturbance constraints may have limited the scope of services. This report is strictly limited to the matters stated in it and is not to be read as extending, by implication, to any other matter in connection with the matters addressed in it.

Reliance on data

In preparing the report, JBS&G has relied upon data and other information provided by the Client and other individuals and organisations, most of which are referred to in the report (“the data”). Except as otherwise expressly stated in the report, JBS&G has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report (“conclusions”) are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. JBS&G has also not attempted to determine whether any material matter has been omitted from the data. JBS&G will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to JBS&G. The making of any assumption does not imply that JBS&G has made any enquiry to verify the correctness of that assumption.

The report is based on conditions encountered and information received at the time of preparation of this report or the time that site investigations were carried out. JBS&G disclaims responsibility for any changes that may have occurred after this time. This report and any legal issues arising from it are governed by and construed in accordance with the law as at the date of this report.

Environmental conclusions

Within the limitations imposed by the scope of services, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted environmental consulting practices. No other warranty, whether express or implied, is made, including to any third parties, and no liability will be accepted for use or interpretation of this report by any third party.

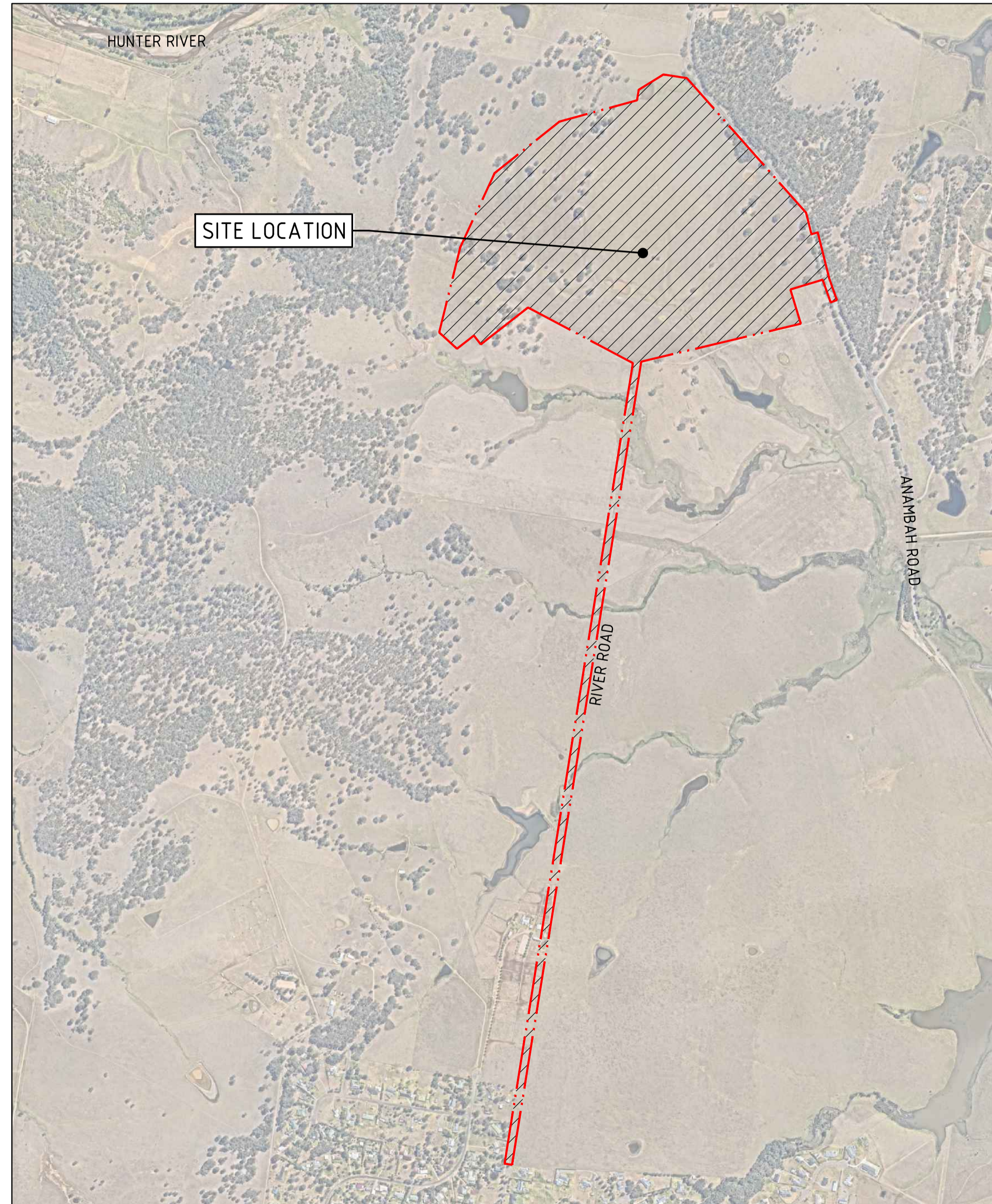
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Appendix A Detailed Site Designs

PROPOSED SUBDIVISION, 559 ANAMBAH ROAD GOSFORTH NSW 2320

MASTERPLANNING DEVELOPMENT APPLICATION CIVIL ENGINEERING PACKAGE



LOCALITY PLAN

IMAGE SOURCE : NEARMAPS

DRAWING SCHEDULE

DWG NO.	DRAWING TITLE
MP-C01.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
MP-C02.01	STAGING PLAN
MP-C03.01	CONCEPT BULK EARTHWORKS PLAN
MP-C03.11	BULK EARTHWORKS SITE SECTIONS - SHEET 1
MP-C03.12	BULK EARTHWORKS SITE SECTIONS - SHEET 2
MP-C03.13	BULK EARTHWORKS SITE SECTIONS - SHEET 3
MP-C04.01	CONCEPT CIVIL WORKS PLAN - SHEET 1
MP-C04.02	CONCEPT CIVIL WORKS PLAN - SHEET 2
MP-C04.03	CONCEPT CIVIL WORKS PLAN - SHEET 3
MP-C04.04	CONCEPT CIVIL WORKS PLAN - SHEET 4
MP-C05.01	FOOTPATH AND SHARED PATH PLAN
MP-C05.21	ROAD TYPICAL SECTIONS - SHEET 1
MP-C05.22	ROAD TYPICAL SECTIONS - SHEET 2
MP-C05.25	TYPICAL SECTIONS THROUGH LOTS
MP-C05.26	TYPICAL CIVIL DETAILS
MP-C05.31	ROAD LONGITUDINAL SECTIONS - SHEET 1
MP-C05.32	ROAD LONGITUDINAL SECTIONS - SHEET 2
MP-C05.33	ROAD LONGITUDINAL SECTIONS - SHEET 3
MP-C05.34	ROAD LONGITUDINAL SECTIONS - SHEET 4
MP-C05.35	ROAD LONGITUDINAL SECTIONS - SHEET 5
MP-C05.36	ROAD LONGITUDINAL SECTIONS - SHEET 6
MP-C05.37	ROAD LONGITUDINAL SECTIONS - SHEET 7
MP-C05.38	ROAD LONGITUDINAL SECTIONS - SHEET 8
MP-C05.39	ROAD LONGITUDINAL SECTIONS - SHEET 9
MP-C05.40	ROAD LONGITUDINAL SECTIONS - SHEET 10
MP-C05.41	ROAD LONGITUDINAL SECTIONS - SHEET 11
MP-C05.42	ROAD LONGITUDINAL SECTIONS - SHEET 12
MP-C05.43	ROAD LONGITUDINAL SECTIONS - SHEET 13
MP-C05.44	ROAD LONGITUDINAL SECTIONS - SHEET 14
MP-C05.45	ROAD LONGITUDINAL SECTIONS - SHEET 15
MP-C05.46	ROAD LONGITUDINAL SECTIONS - SHEET 16
MP-C05.47	ROAD LONGITUDINAL SECTIONS - SHEET 17
MP-C05.48	ROAD LONGITUDINAL SECTIONS - SHEET 18
MP-C05.49	ROAD LONGITUDINAL SECTIONS - SHEET 19
MP-C05.50	ROAD LONGITUDINAL SECTIONS - SHEET 20
MP-C05.51	ROAD LONGITUDINAL SECTIONS - SHEET 21
MP-C05.52	ROAD LONGITUDINAL SECTIONS - SHEET 22
MP-C05.53	ROAD LONGITUDINAL SECTIONS - SHEET 23
MP-C05.54	ROAD LONGITUDINAL SECTIONS - SHEET 24
MP-C05.55	ROAD LONGITUDINAL SECTIONS - SHEET 25
MP-C05.56	ROAD LONGITUDINAL SECTIONS - SHEET 26
MP-C05.57	ROAD LONGITUDINAL SECTIONS - SHEET 27
MP-C05.58	ROAD LONGITUDINAL SECTIONS - SHEET 28
MP-C05.59	ROAD LONGITUDINAL SECTIONS - SHEET 29
MP-C05.60	ROAD LONGITUDINAL SECTIONS - SHEET 30
MP-C05.61	ROAD LONGITUDINAL SECTIONS - SHEET 31
MP-C05.62	ROAD LONGITUDINAL SECTIONS - SHEET 32
MP-C05.63	ROAD LONGITUDINAL SECTIONS - SHEET 33
MP-C05.64	ROAD LONGITUDINAL SECTIONS - SHEET 34
MP-C05.65	ROAD LONGITUDINAL SECTIONS - SHEET 35
MP-C05.66	ROAD LONGITUDINAL SECTIONS - SHEET 36
MP-C06.01	CREEK PLAN AND LONGITUDINAL SECTION
MP-C06.11	CREEK CROSS SECTIONS
MP-C08.01	CONCEPT CIVIL WORKS PLAN RIVER ROAD - SHEET 1
MP-C08.02	CONCEPT CIVIL WORKS PLAN RIVER ROAD - SHEET 2
MP-C08.03	CONCEPT CIVIL WORKS PLAN RIVER ROAD - SHEET 3
MP-C08.21	ROAD TYPICAL SECTIONS RIVER ROAD
MP-C08.31	ROAD LONGITUDINAL SECTIONS RIVER ROAD - SHEET 1
MP-C08.32	ROAD LONGITUDINAL SECTIONS RIVER ROAD - SHEET 2
MP-C08.33	ROAD LONGITUDINAL SECTIONS RIVER ROAD - SHEET 3
MP-C08.34	ROAD LONGITUDINAL SECTIONS RIVER ROAD - SHEET 4

DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE



NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	DRAFT ISSUE	JS		AK	09.08.24
B	DRAFT ISSUE	JS		AK	15.08.24
C	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24
D	REISSUED FOR APPROVAL	JS	LM	AK	28.08.24

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PROJECT

**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

**COVER SHEET, DRAWING SCHEDULE
AND LOCALITY PLAN**

JOB NUMBER

NL222055-01

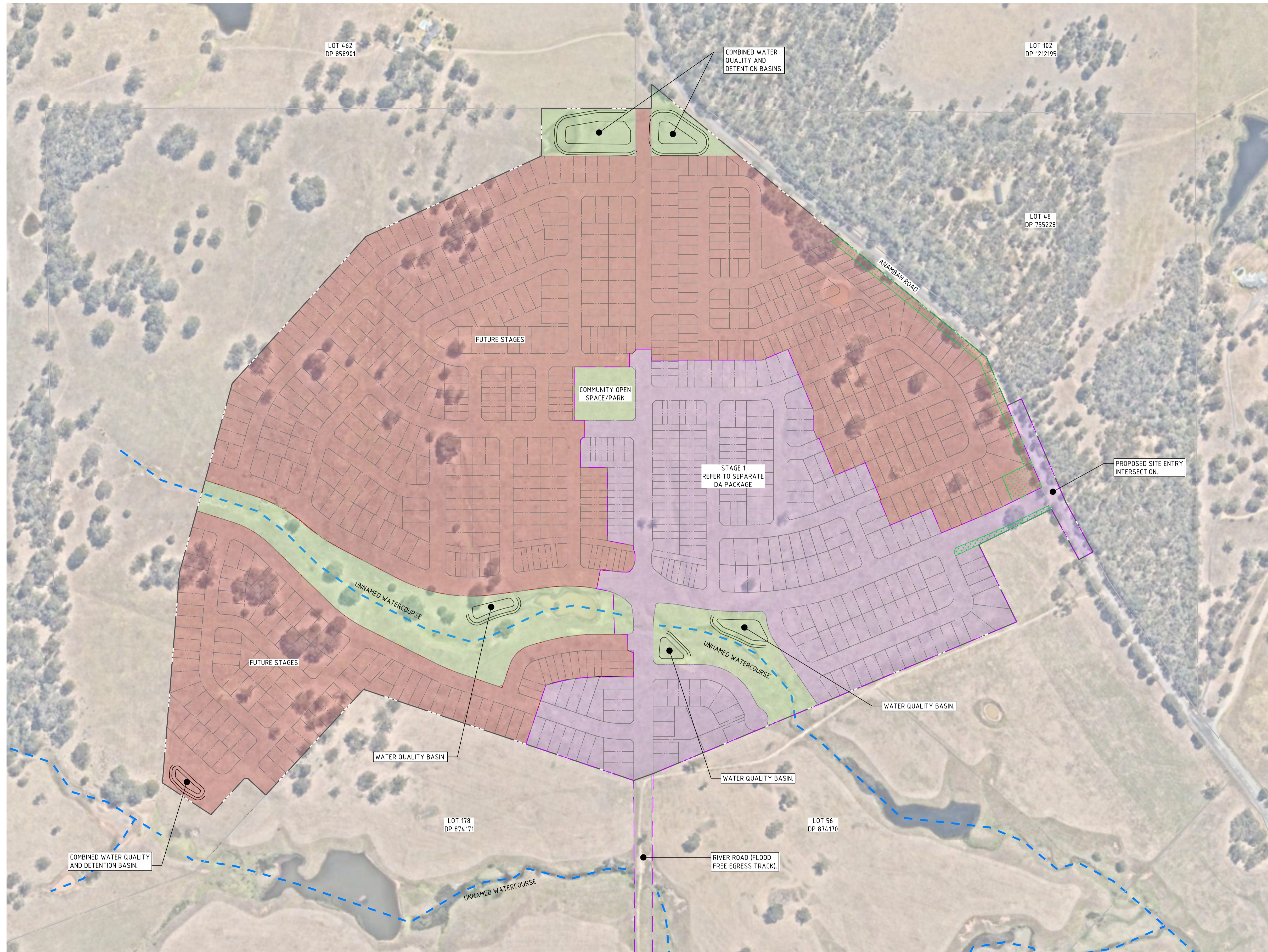
DRAWING NUMBER

MP-C01.01

REVISION

D

DRAWING SHEET SIZE = A1



LEGEND	
	SITE BOUNDARY LINE
	EXISTING BOUNDARY LINE
	STAGE 1 WORKS EXTENT
	STAGE 1
	FUTURE STAGE
	OPEN SPACE/ DRAINAGE RESERVE
	LANDSCAPE SETBACK
	INDICATIVE LINE OF EXISTING WATERCOURSE

DRAWN: J. STAUB DESIGNED: A. TURBULL JOB MANAGER: L. MCRAE VERIFIER: L. MCRAE



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
A	DRAFT ISSUE	AK		LM	09.08.24	 DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED
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C	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24	

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 Level 1, 215 Pacific Hwy, Charlestown NSW 2290
 Ph (02) 4943 1777 Email newcastle@northrop.com.au
 ABN 81 094 433 100

PROJECT
**PROPOSED SUBDIVISION
 559 ANAMBAH ROAD
 GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STAGING PLAN

JOB NUMBER NL222055-01	
DRAWING NUMBER MP-C02.01	REVISION C
DRAWING SHEET SIZE = A1	

DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE



LEGEND

- SITE BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- STAGE 1 WORKS EXTENT
- LOT RE-GRADING TO BE UNDERTAKEN AT SUBDIVISION WORKS STAGE VIA CONSTRUCTING RETAINING WALLS AND BATTERS. DETAILS TO BE PROVIDED AT SWC STAGE. REFER TO C05.25, TYPICAL LOT SECTIONS FOR STANDARD RESIDENTIAL LOT ARRANGEMENTS.
- DESIGN CONTOURS (10m INTERVAL)
- EXISTING CONTOURS (10m INTERVAL)
- SECTION MARKER

DEPTH OF CUT

	- 9.99m TO - 15.0m
	- 15.0m TO - 10.0m
	- 10.0m TO - 5.0m
	- 5.0m TO - 2.0m
	- 2.0m TO - 1.0m
	- 1.0m TO - 0.5m
	- 0.5m TO - 0.25m
	- 0.25m TO - 0.0m

DEPTH OF FILL

	0.0m TO 0.25m
	0.25m TO 0.5m
	0.5m TO 1.0m
	1.0m TO 2.0m
	2.0m TO 5.0m
	5.0m TO 10.0m
	10.0m TO 15.0m
	15.0m TO 999m

NOTES

THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY AND IT IS EXPECTED THAT ADDITIONAL AREAS OF CUT AND FILLING WILL BE REQUIRED BEYOND THE EXTENTS SHOWN ON THIS PLAN. FURTHER LEVELS/DEPTHS OF CUT AND FILL WILL CONTINUE TO BE ALTERED AND THIS WILL BE CONFIRMED AS PART OF THE DETAILED DESIGN PHASE FOR SUBDIVISION WORKS CERTIFICATE PLAN PREPARATION.



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C	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24	
D	REISSUED FOR APPROVAL	JS	LM	AK	28.08.24	

CLIENT: **Third.i COMMUNITIES**

COUNCIL: **maitland city council**

SCALE: 1:2500@A1

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ABN 81 094 433 100

PROJECT: **PROPOSED SUBDIVISION 559 ANAMBAH ROAD GOSFORTH NSW 2320**
MASTERPLANNING DA

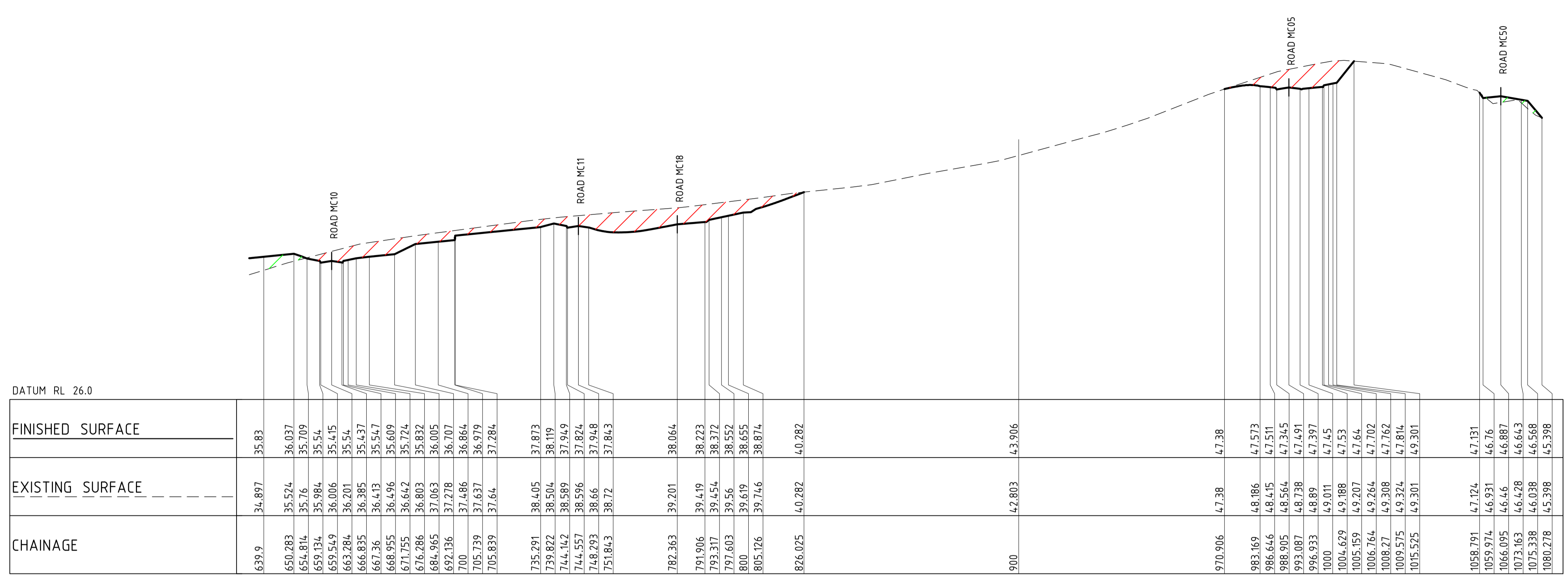
DRAWING TITLE: **CIVIL ENGINEERING PACKAGE**
CONCEPT BULK EARTHWORKS PLAN

JOB NUMBER: **NL222055-01**

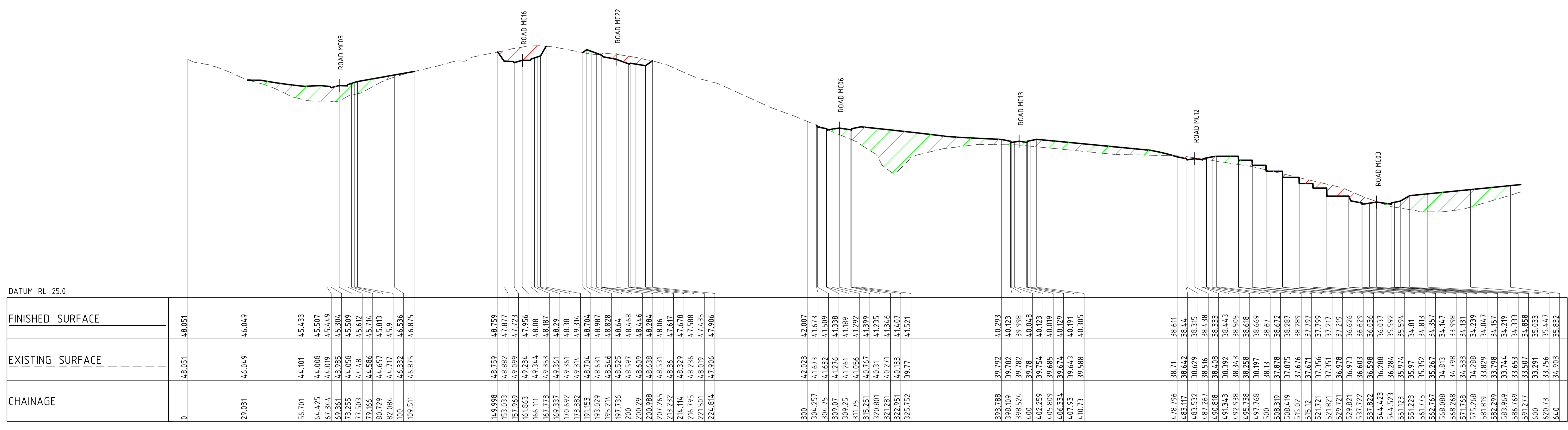
DRAWING NUMBER: MP-C03.01	REVISION: D
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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG 1
HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:200@A1



LONGITUDINAL SECTION ALONG 1
HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:200@A1



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SCALE 1:1000@A1
SCALE 1:200@A1

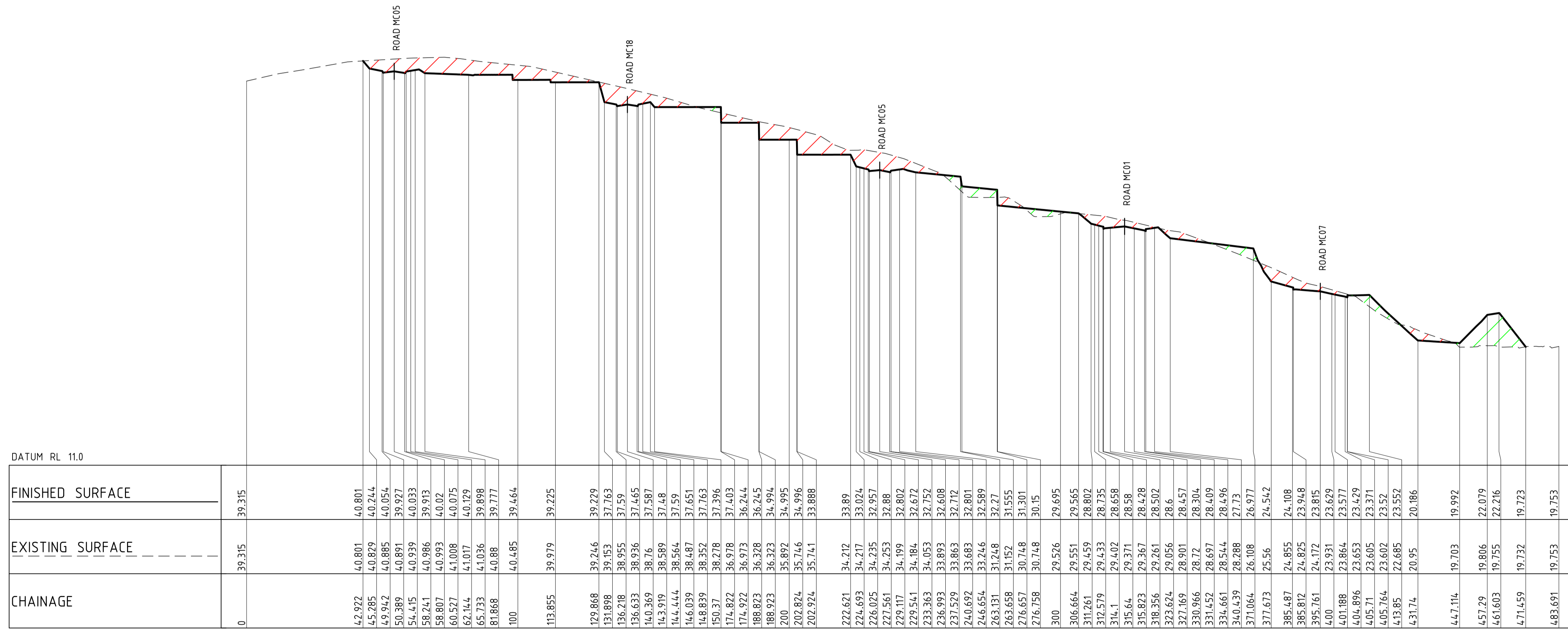
NORTHROP Newcastle
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Ph (02) 4943 1777 Email newcastle@northrop.com.au
ABN 81 094 433 100

PROJECT: **PROPOSED SUBDIVISION 559 ANAMBAH ROAD GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE: **CIVIL ENGINEERING PACKAGE BULK EARTHWORKS SITE SECTIONS - SHEET 1**

JOB NUMBER: **NL222055-01**
DRAWING NUMBER: **MP-C03.11**
REVISION: **B**
DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG 2

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:200@A1

CHAINAGE	EXISTING SURFACE	FINISHED SURFACE
0	39.315	39.315
4.2922	40.801	40.801
4.5285	40.829	40.244
4.9942	40.885	40.054
50.389	40.891	39.927
54.415	40.939	40.033
58.241	40.986	39.913
58.807	40.993	40.02
60.527	41.008	40.075
62.144	41.017	40.129
65.733	41.036	39.898
81.868	40.88	39.777
100	40.485	39.464
113.855	39.979	39.225
129.868	39.246	39.229
131.898	39.153	37.763
136.218	38.955	37.59
136.633	38.936	37.465
140.369	38.76	37.587
143.919	38.589	37.48
144.444	38.564	37.59
146.039	38.487	37.651
148.839	38.352	37.763
150.37	38.278	37.396
174.822	36.978	37.403
174.922	36.973	36.244
188.823	36.328	36.245
188.923	36.323	34.994
200	35.892	34.995
202.824	35.716	34.996
202.924	35.741	33.888
222.621	34.212	33.89
224.693	34.217	33.024
226.025	34.235	32.957
227.561	34.253	32.88
229.117	34.199	32.802
229.541	34.184	32.672
233.363	34.053	32.752
236.993	33.893	32.608
237.529	33.863	32.712
240.692	33.683	32.801
246.654	33.246	32.589
263.131	31.246	32.27
263.658	31.152	31.555
276.657	30.748	31.301
276.758	30.748	30.15
300	29.526	29.695
306.664	29.551	29.565
311.261	29.459	28.802
312.579	29.433	28.735
314.1	29.402	28.658
315.64	29.371	28.58
315.823	29.367	28.428
318.356	29.261	28.502
323.624	29.056	28.6
327.169	28.901	28.457
330.966	28.72	28.304
331.452	28.697	28.409
334.661	28.544	28.496
340.439	28.288	27.73
371.064	26.108	26.977
377.673	25.56	24.542
385.487	24.855	24.108
385.812	24.825	23.948
395.761	24.172	23.815
400	23.931	23.629
401.188	23.864	23.577
404.896	23.653	23.429
405.71	23.605	23.371
405.764	23.602	23.52
413.85	22.685	23.552
431.74	20.95	20.186
447.114	19.703	19.992
457.29	19.806	22.079
461.603	19.755	22.216
471.459	19.732	19.773
483.691	19.753	19.753



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SCALE 1:1000@A1
SCALE 1:200@A1

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ABN 81 094 433 100

PROJECT: **PROPOSED SUBDIVISION 559 ANAMBAH ROAD GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE: **CIVIL ENGINEERING PACKAGE**

BULK EARTHWORKS SITE SECTIONS - SHEET 2

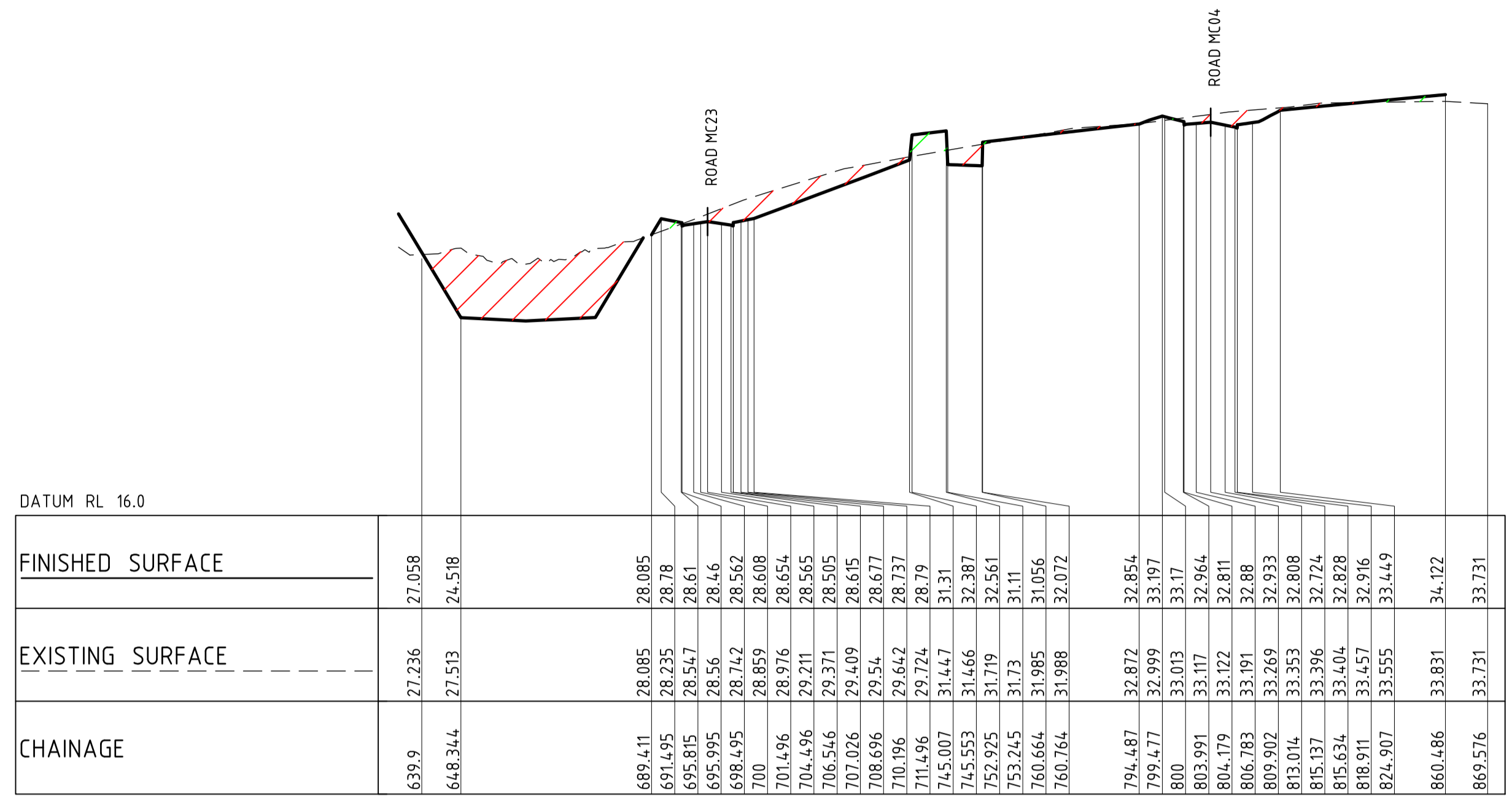
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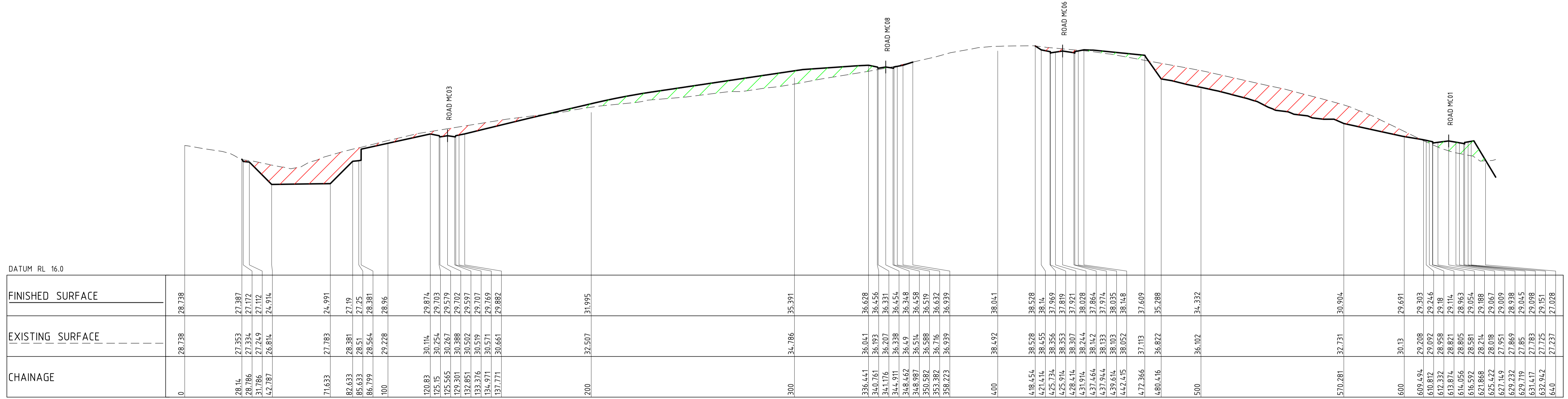
REVISION: **B**

DRAWING SHEET SIZE = A1

DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE



LONGITUDINAL SECTION ALONG 3
HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:200@A1



LONGITUDINAL SECTION ALONG 3
HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:200@A1



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SCALE 1:1000@A1
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ABN 81 094 433 100

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MASTERPLANNING DA

DRAWING TITLE: **CIVIL ENGINEERING PACKAGE**

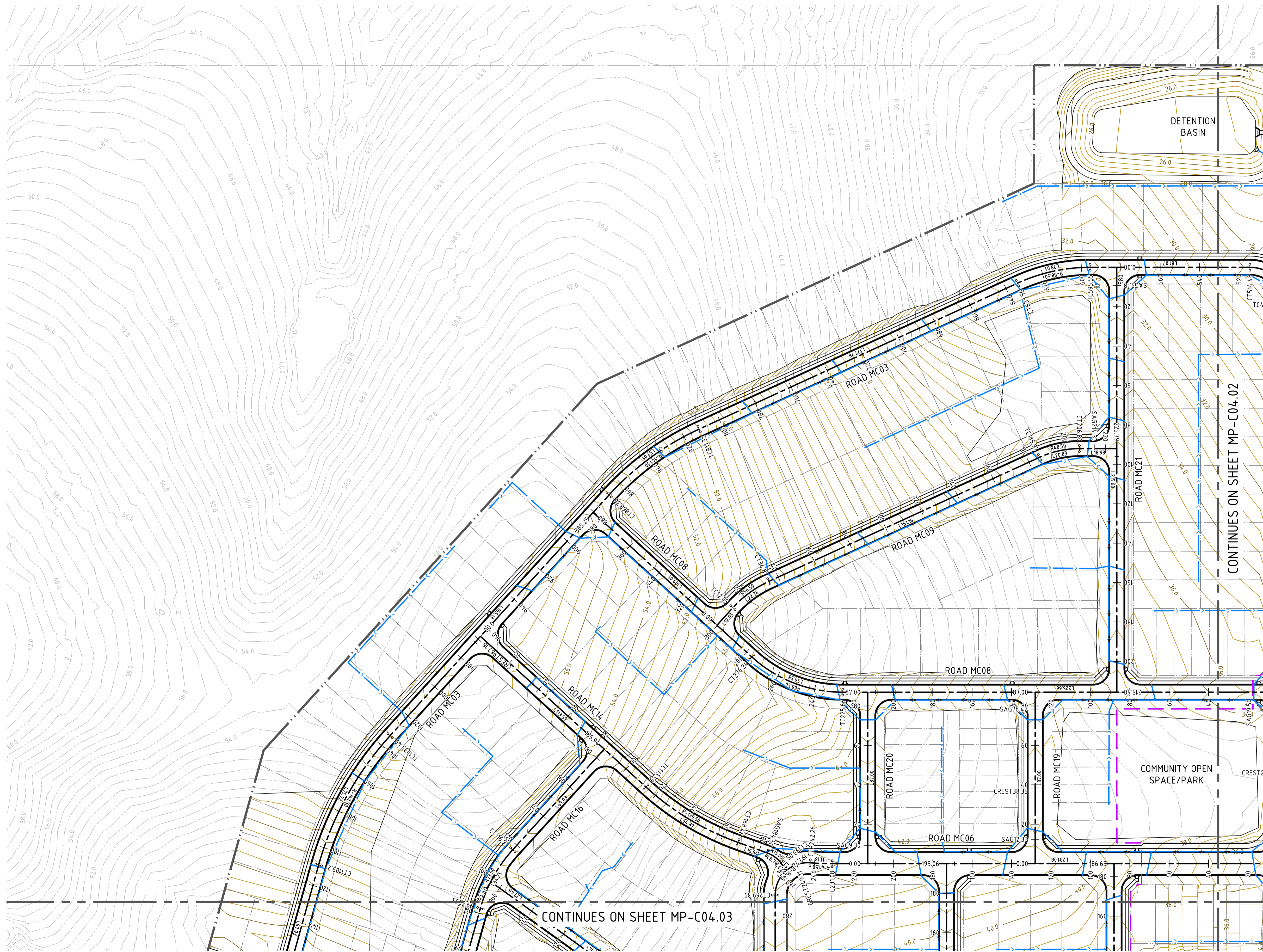
BULK EARTHWORKS SITE SECTIONS - SHEET 3

JOB NUMBER: **NL222055-01**

DRAWING NUMBER: **MP-C03.13**

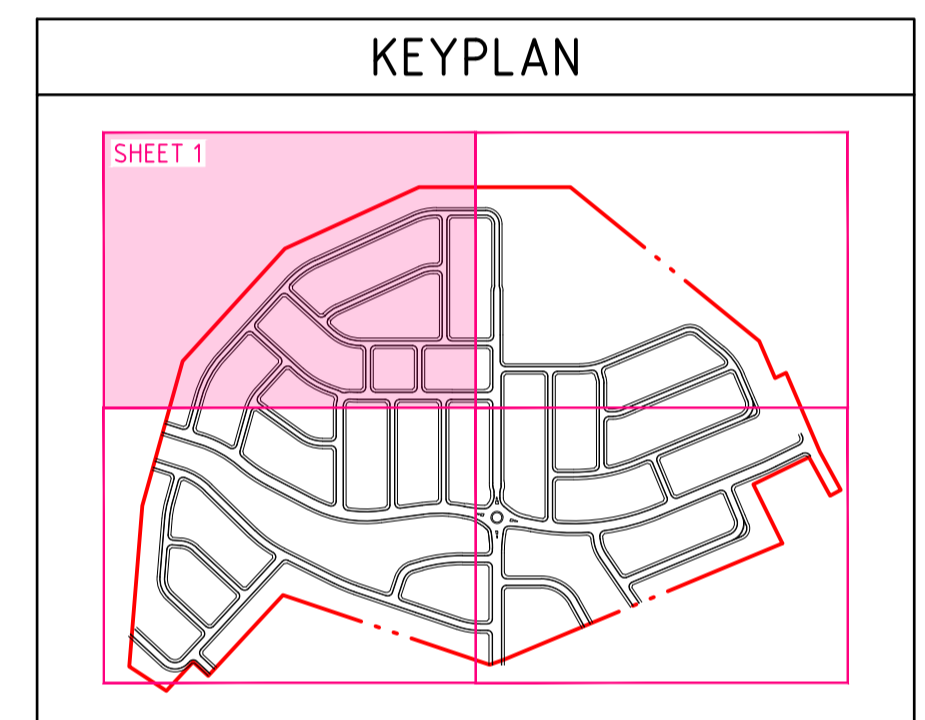
REVISION: **B**

DRAWING SHEET SIZE = A1



LEGEND	
	SITE BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	STAGE BOUNDARY LINE
	PROPOSED STORMWATER PIPE
	PROPOSED STORMWATER OUTLET WITH SCOUR PROTECTION
	DESIGN CONTOURS (0.5m INTERVALS)
	EXISTING CONTOURS (0.5m INTERVALS)
	LANDSCAPE SETBACK

- NOTES**
- REFER TO DRAWING MP-C05.01 FOR FOOTPATH AND SHARED PATH LAYOUTS.
 - REQUIRED RETAINING WALLS TO MAITLAND CITY COUNCIL REQUIREMENTS ON LOT BOUNDARIES NOT SHOWN. DETAILS TO BE PROVIDED AT SWC STAGE.
 - INDICATIVE LOT GRADING SHOWN ONLY. SUBJECT TO DETAILED DESIGN AT SUBDIVISION WORKS CERTIFICATE STAGE.



DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE

CONTINUES ON SHEET MP-C04.03

CONTINUES ON SHEET MP-C04.02



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C	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24	
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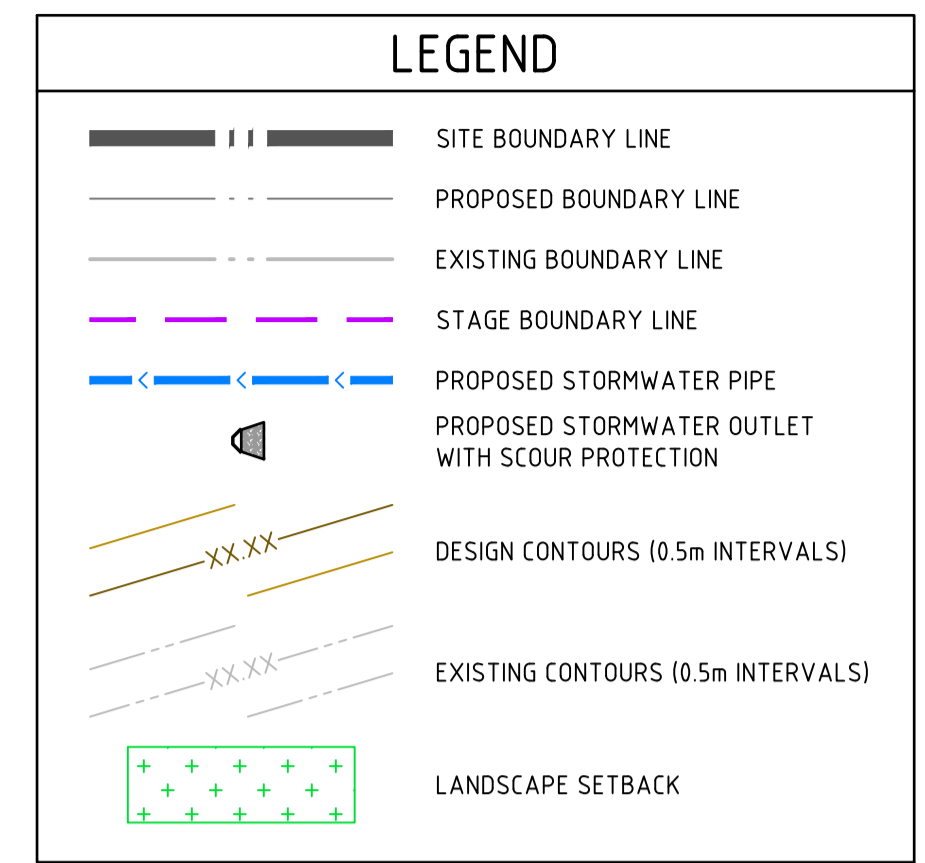
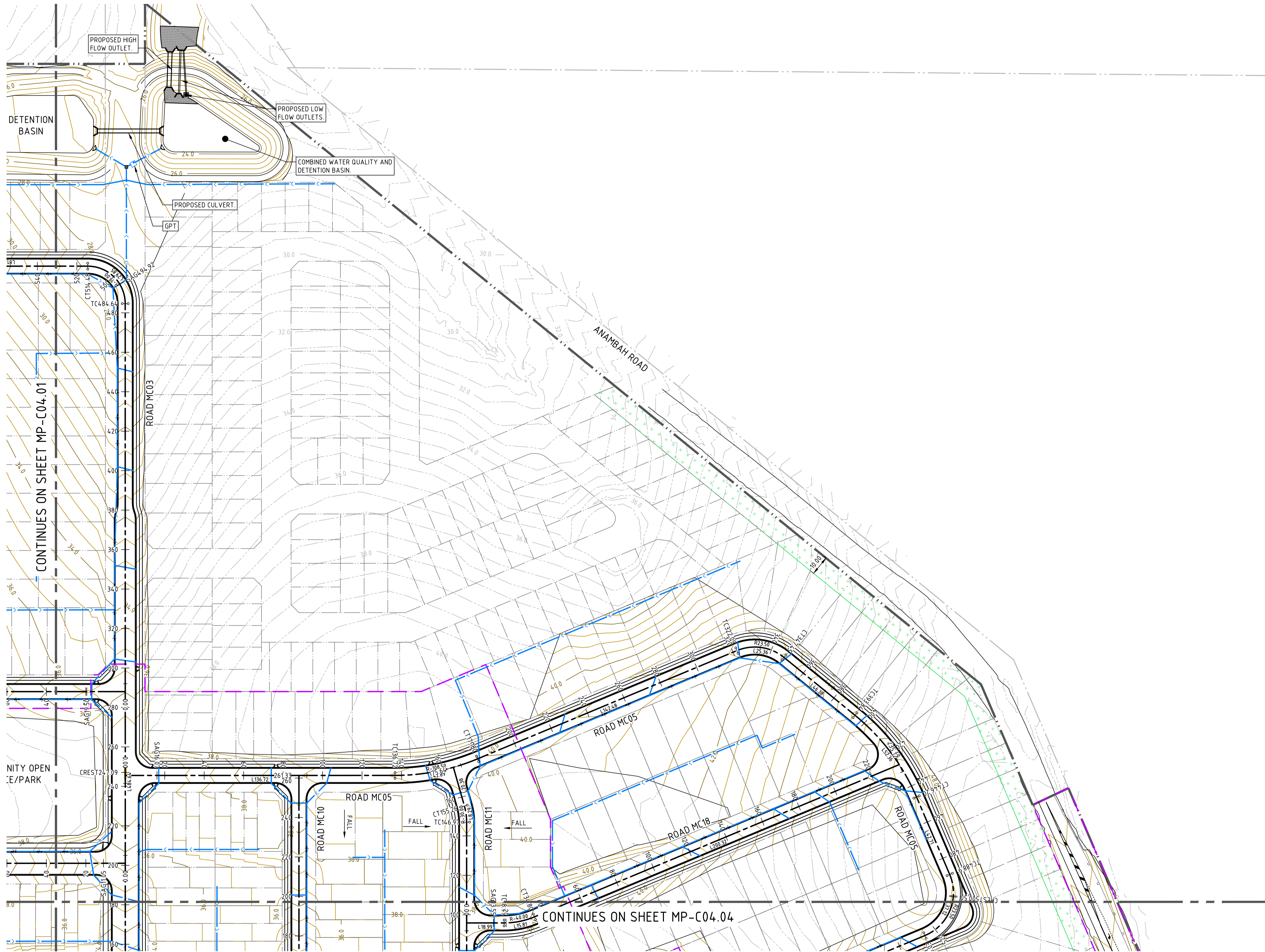
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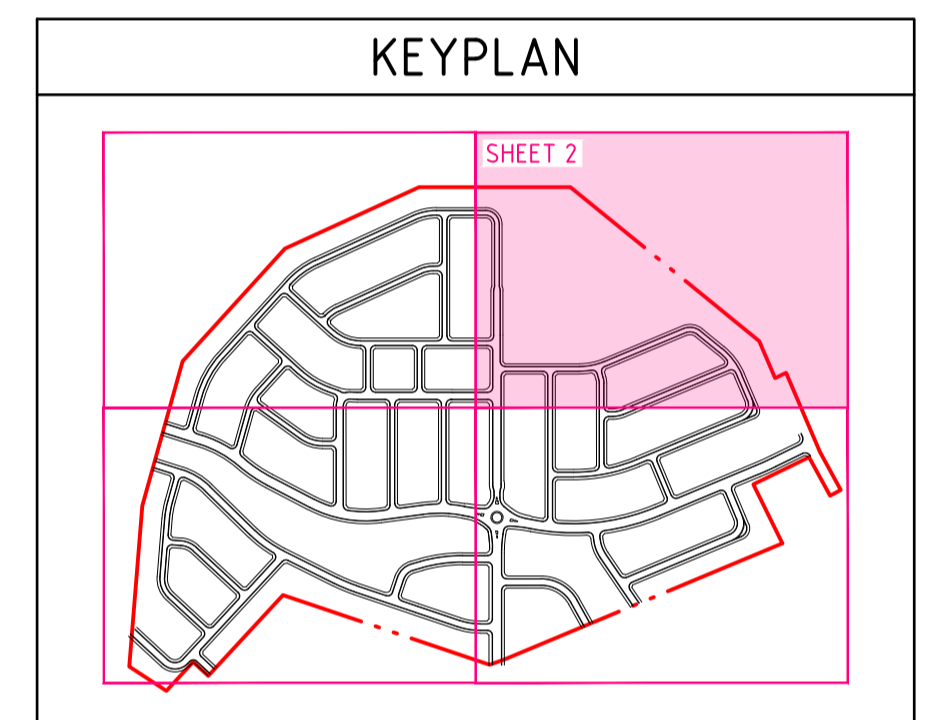
PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
CONCEPT CIVIL WORKS PLAN -
SHEET 1**

JOB NUMBER NL222055-01	
DRAWING NUMBER MP-C04.01	REVISION D
DRAWING SHEET SIZE = A1	



- ### NOTES
- REFER TO DRAWING MP-C05.01 FOR FOOTPATH AND SHARED PATH LAYOUTS.
 - REQUIRED RETAINING WALLS TO MAITLAND CITY COUNCIL REQUIREMENTS ON LOT BOUNDARIES NOT SHOWN. DETAILS TO BE PROVIDED AT SWC STAGE.
 - INDICATIVE LOT GRADING SHOWN ONLY. SUBJECT TO DETAILED DESIGN AT SUBDIVISION WORKS CERTIFICATE STAGE.



DRAWN: J. STAUB DESIGNED: A. TURBULL JOB MANAGER: L. MCRAE VERIFIER: L. MCRAE

CONTINUES ON SHEET MP-C04.01

CONTINUES ON SHEET MP-C04.04



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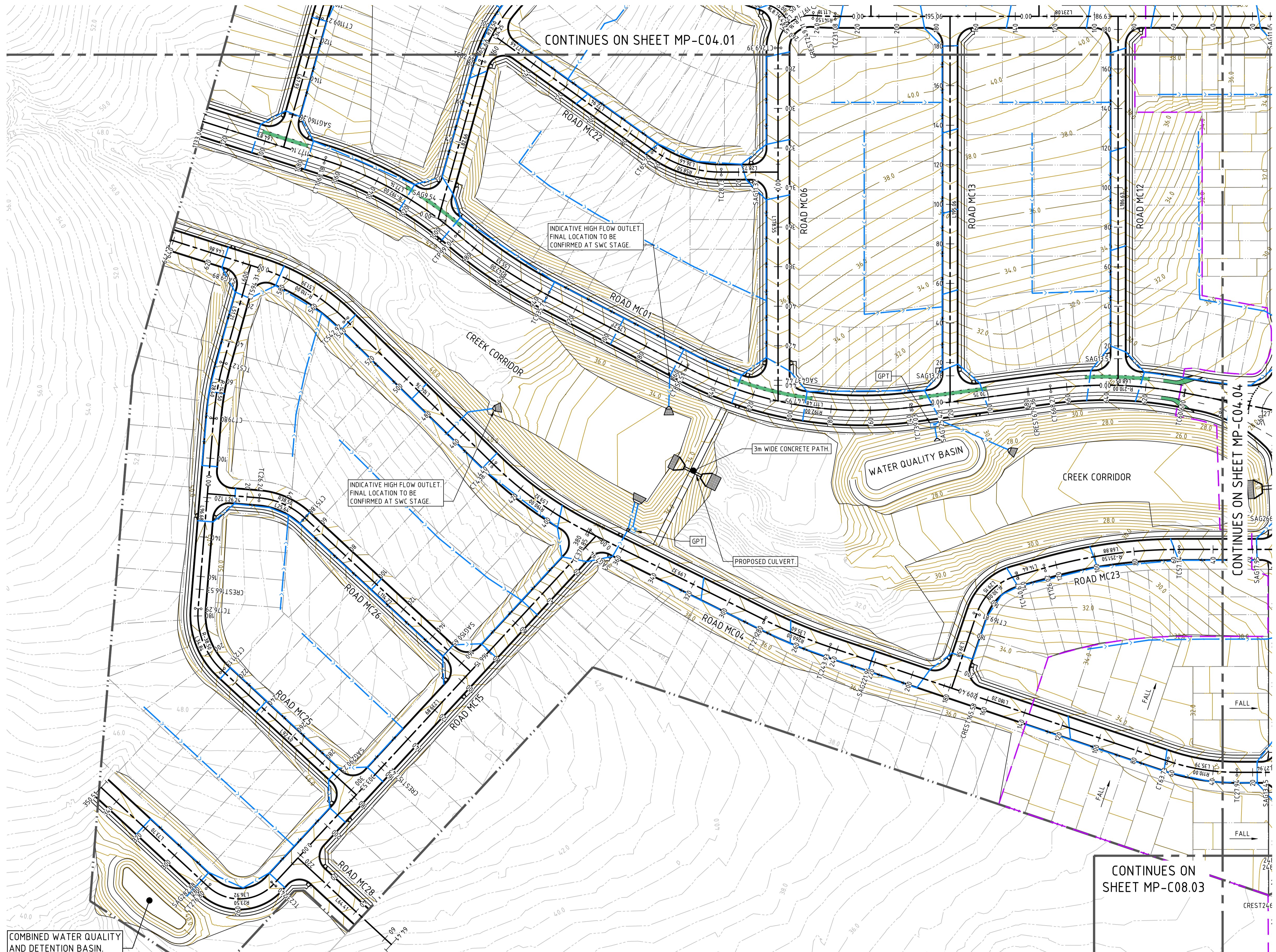
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PROJECT
**PROPOSED SUBDIVISION
 559 ANAMBAH ROAD
 GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
**CONCEPT CIVIL WORKS PLAN -
 SHEET 2**

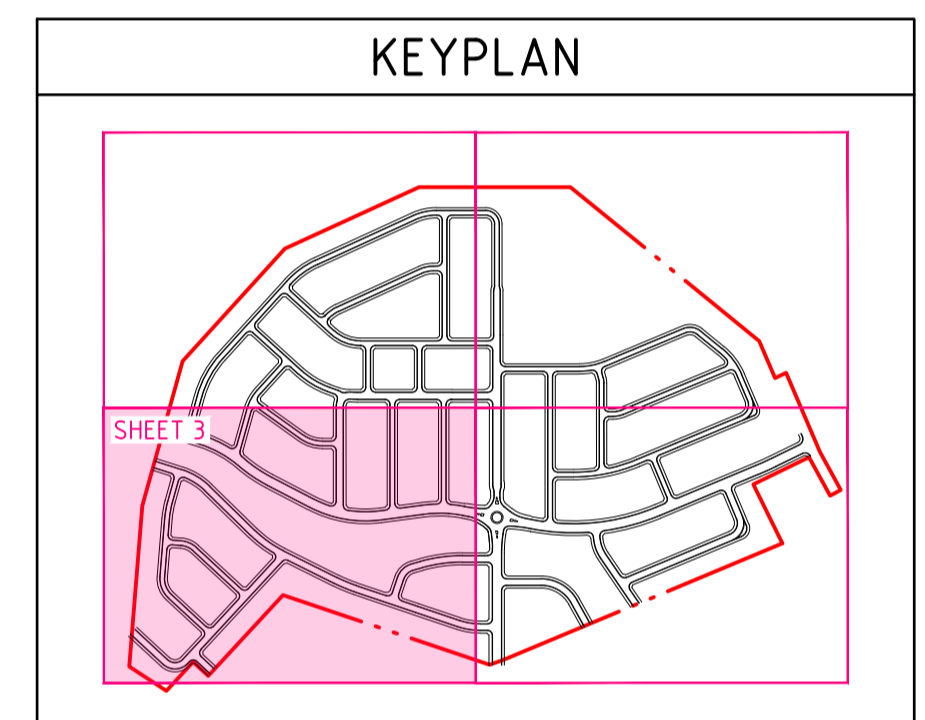
JOB NUMBER
NL222055-01
 DRAWING NUMBER
MP-C04.02
 REVISION
D
 DRAWING SHEET SIZE = A1



LEGEND

- SITE BOUNDARY LINE
- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- STAGE BOUNDARY LINE
- PROPOSED STORMWATER PIPE
- PROPOSED STORMWATER OUTLET WITH SCOUR PROTECTION
- DESIGN CONTOURS (0.5m INTERVALS)
- EXISTING CONTOURS (0.5m INTERVALS)
- LANDSCAPE SETBACK

- ### NOTES
1. REFER TO DRAWING MP-C05.01 FOR FOOTPATH AND SHARED PATH LAYOUTS.
 2. REQUIRED RETAINING WALLS TO MAITLAND CITY COUNCIL REQUIREMENTS ON LOT BOUNDARIES NOT SHOWN. DETAILS TO BE PROVIDED AT SWC STAGE.
 3. INDICATIVE LOT GRADING SHOWN ONLY. SUBJECT TO DETAILED DESIGN AT SUBDIVISION WORKS CERTIFICATE STAGE.



DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE

COMBINED WATER QUALITY AND DETENTION BASIN.

CONTINUES ON SHEET MP-C04.01

CONTINUES ON SHEET MP-C04.04

CONTINUES ON SHEET MP-C08.03

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
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PROJECT

**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE

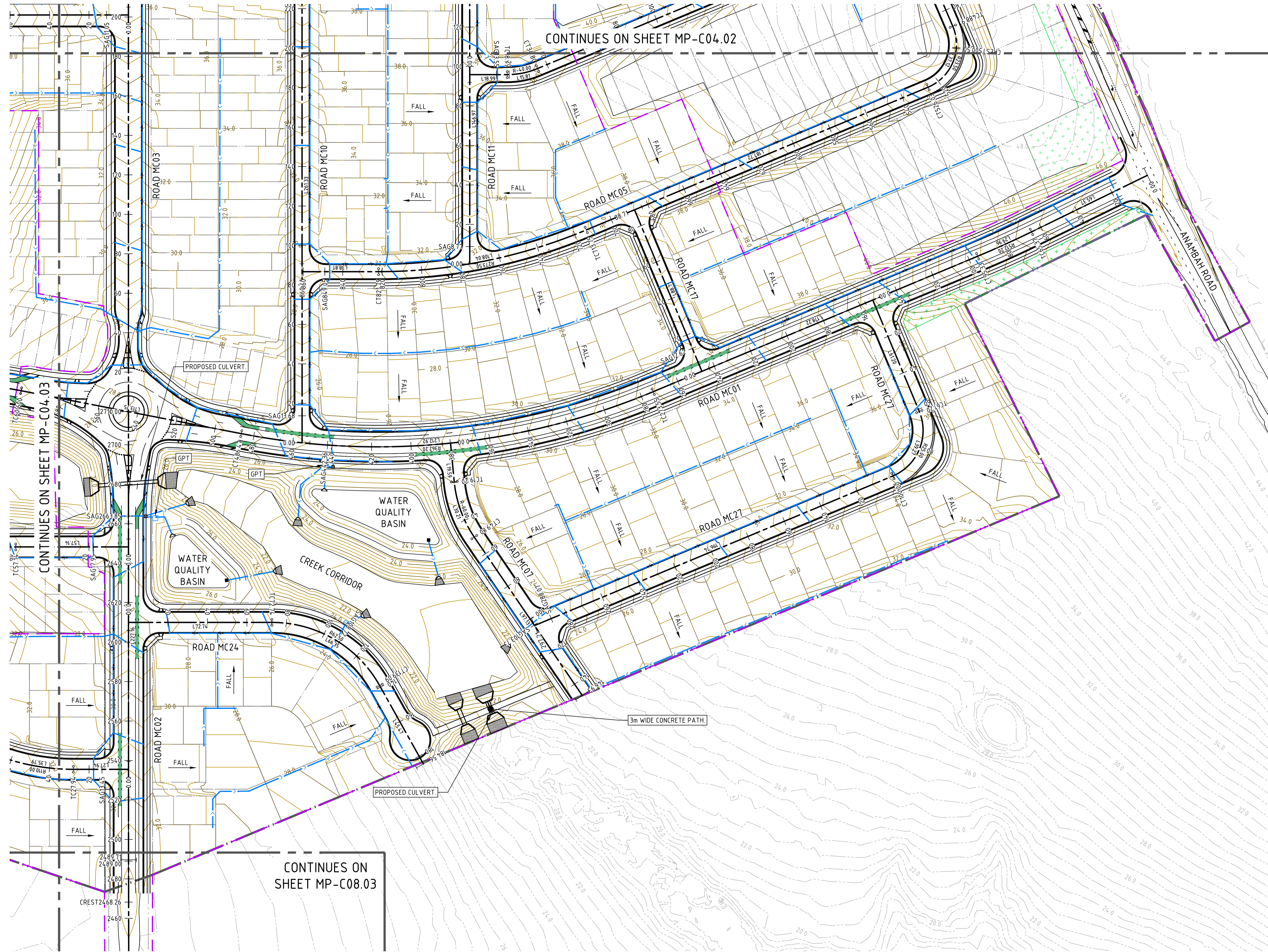
CIVIL ENGINEERING PACKAGE

CONCEPT CIVIL WORKS PLAN - SHEET 3

JOB NUMBER		NL222055-01
DRAWING NUMBER	REVISION	
MP-C04.03	D	
DRAWING SHEET SIZE = A1		



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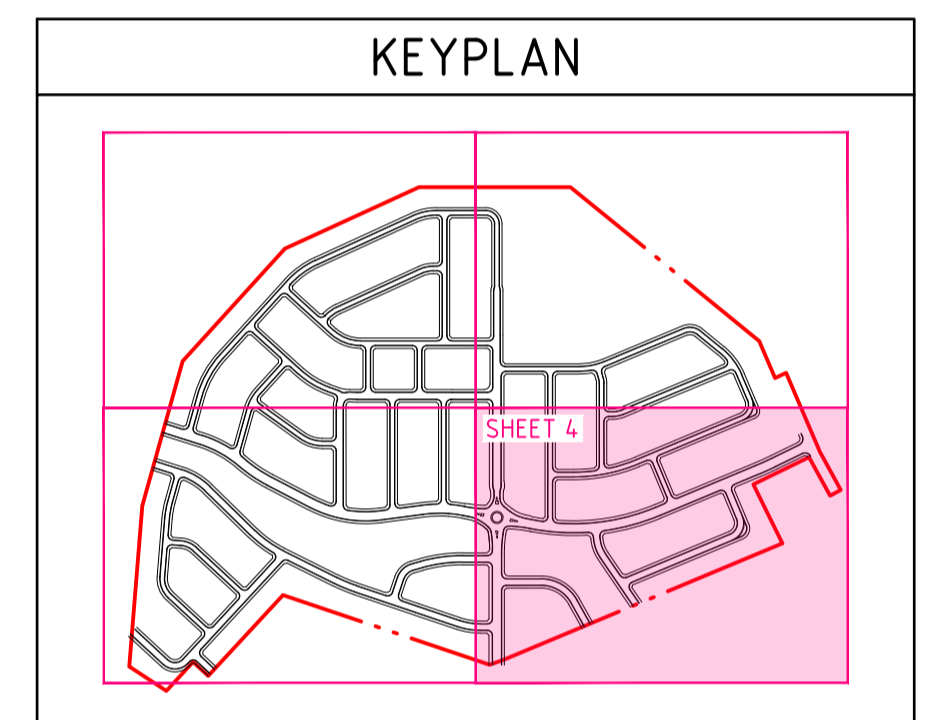
CONTINUES ON SHEET MP-C04.02

CONTINUES ON SHEET MP-C04.03

CONTINUES ON SHEET MP-C08.03

LEGEND	
	SITE BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	STAGE BOUNDARY LINE
	PROPOSED STORMWATER PIPE
	PROPOSED STORMWATER OUTLET WITH SCOUR PROTECTION
	DESIGN CONTOURS (0.5m INTERVALS)
	EXISTING CONTOURS (0.5m INTERVALS)
	LANDSCAPE SETBACK

- NOTES**
- REFER TO DRAWING MP-C05.01 FOR FOOTPATH AND SHARED PATH LAYOUTS.
 - REQUIRED RETAINING WALLS TO MAITLAND CITY COUNCIL REQUIREMENTS ON LOT BOUNDARIES NOT SHOWN. DETAILS TO BE PROVIDED AT SWC STAGE.
 - INDICATIVE LOT GRADING SHOWN ONLY. SUBJECT TO DETAILED DESIGN AT SUBDIVISION WORKS CERTIFICATE STAGE.



DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE



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C	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24	
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COMMUNITIES

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ABN 81 094 433 100

PROJECT

**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

CONCEPT CIVIL WORKS PLAN - SHEET 4

JOB NUMBER

NL222055-01

DRAWING NUMBER

MP-C04.04

REVISION

D

DRAWING SHEET SIZE = A1

LEGEND	
	SITE BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	STAGE 1 WORKS EXTENT
	1.5m WIDE FOOTPATH
	2.5m WIDE SHARED PATH
	PROPOSED ON ROAD BIKE LANE



DRAWN: J. STAUB DESIGNED: A. TURBULL JOB MANAGER: L. MCRAE VERIFIER: L. MCRAE



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	DRAFT ISSUE	JS		AK	25.07.24
B	DRAFT ISSUE	JS		AK	02.08.24
C	DRAFT ISSUE	JS		AK	06.08.24
D	DRAFT ISSUE	JS		AK	09.08.24
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F	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24

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SCALE 1:2000@A1

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GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

FOOTPATH AND SHARED PATH PLAN

JOB NUMBER

NL222055-01

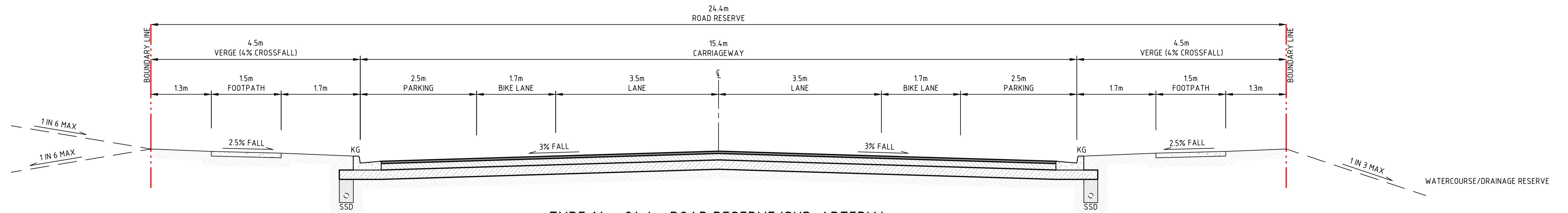
DRAWING NUMBER

MP-C05.01

REVISION

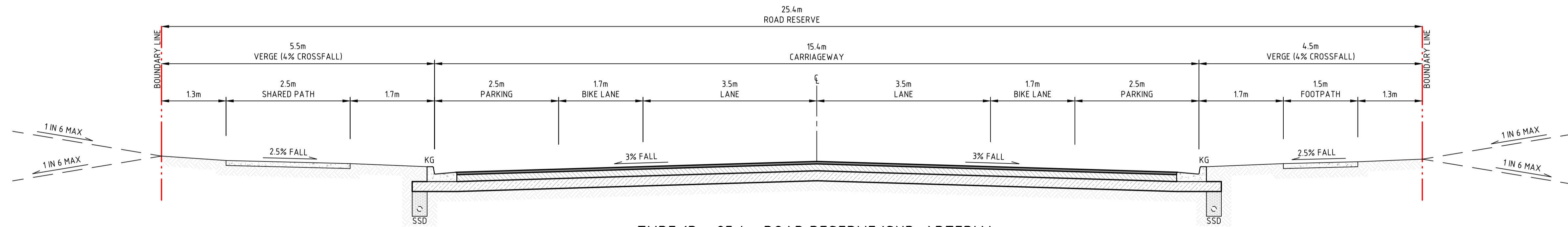
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DRAWING SHEET SIZE = A1



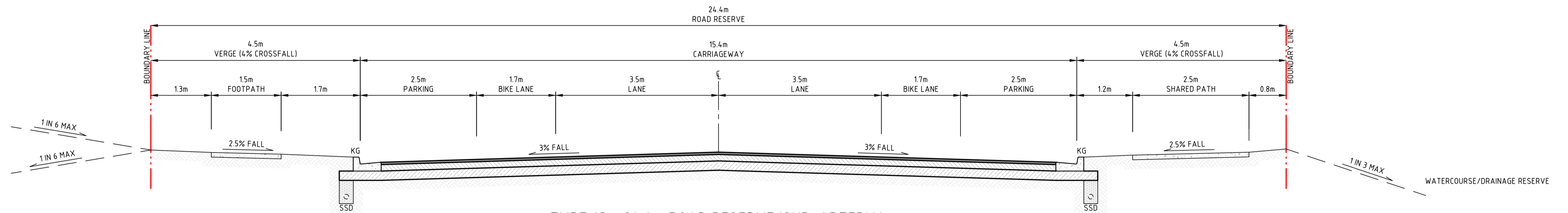
TYPE 1A - 24.4m ROAD RESERVE/SUB-ARTERIAL

SECTION 1A
SCALE 1:50



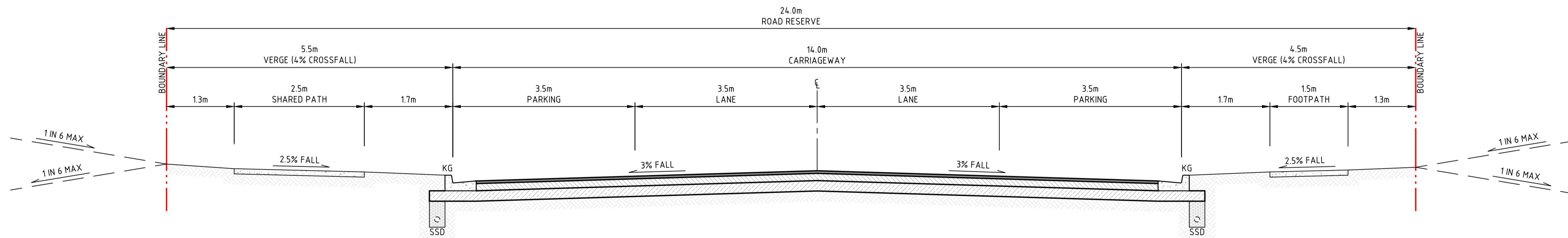
TYPE 1B - 25.4m ROAD RESERVE/SUB-ARTERIAL

SECTION 1B
SCALE 1:50



TYPE 1C - 24.4m ROAD RESERVE/SUB-ARTERIAL

SECTION 1C
SCALE 1:50



TYPE 2 - 24m ROAD RESERVE/DISTRIBUTOR SECONDARY

SECTION 2
SCALE 1:50



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DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE

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SCALE 1:50 @ A1

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PROJECT
PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320
MASTERPLANNING DA

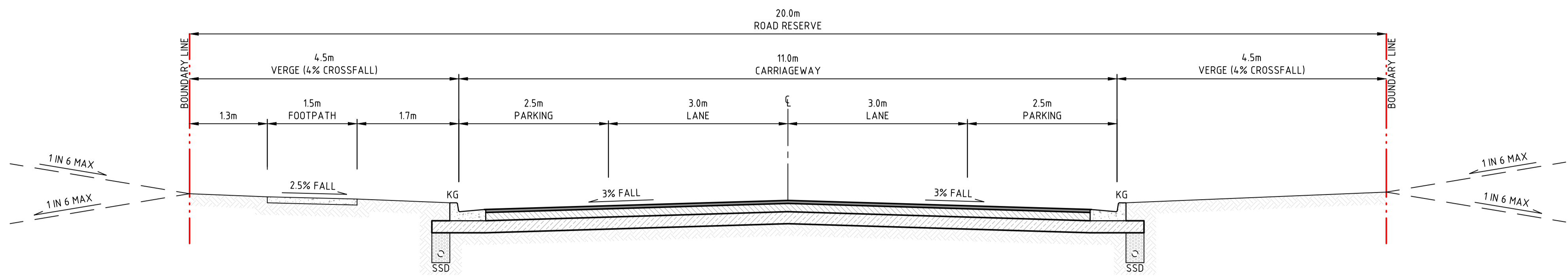
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CIVIL ENGINEERING PACKAGE
ROAD TYPICAL SECTIONS - SHEET 1

JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.21

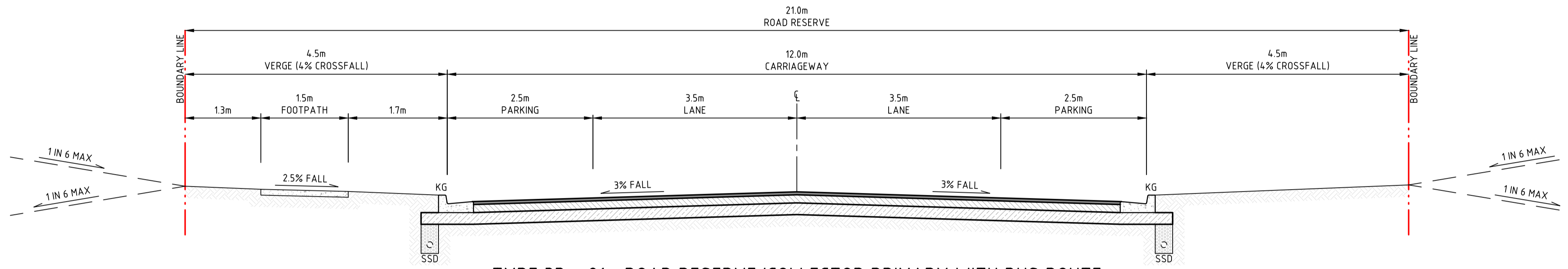
REVISION
F

DRAWING SHEET SIZE = A1



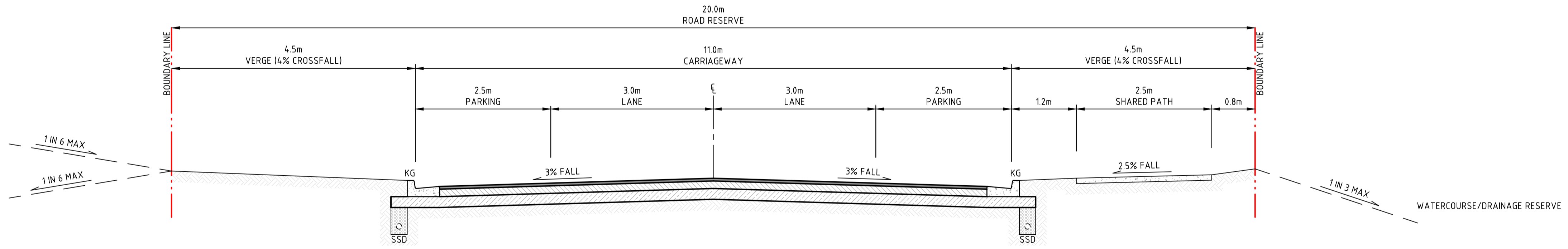
TYPE 3A - 20m ROAD RESERVE/COLLECTOR PRIMARY WITHOUT BUS ROUTE

SECTION 3A
SCALE 1:50
C05.01



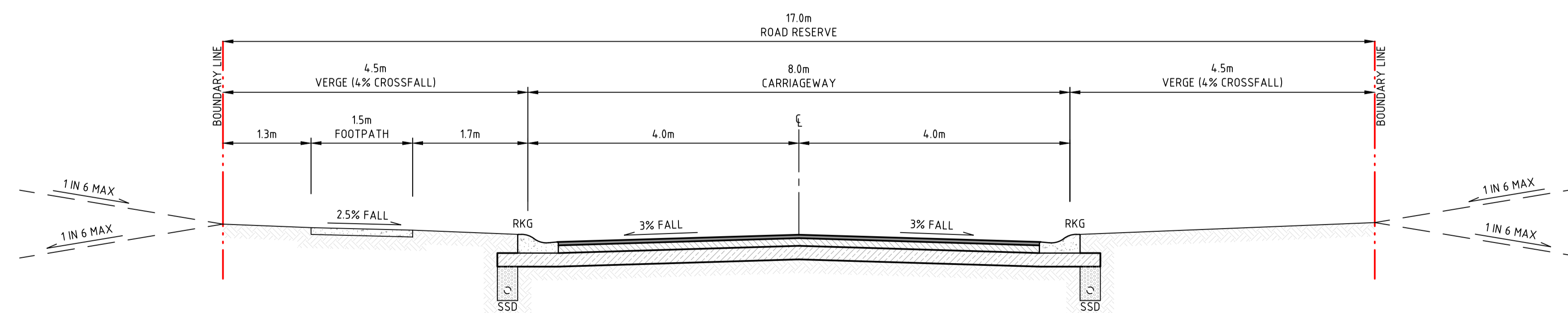
TYPE 3B - 21m ROAD RESERVE/COLLECTOR PRIMARY WITH BUS ROUTE

SECTION 3B
SCALE 1:50
C05.01



TYPE 3C - 20m ROAD RESERVE/COLLECTOR PRIMARY WITHOUT BUS ROUTE

SECTION 3C
SCALE 1:50
C05.01



TYPE 4 - 17m ROAD RESERVE - PARKING ON ONE SIDE ONLY - PLANNING FOR BUSH FIRE PROTECTION (NOVEMBER 2019)

SECTION 4
SCALE 1:50
C05.01



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559 ANAMBAH ROAD
GOSFORTH NSW 2320
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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD TYPICAL SECTIONS - SHEET 2

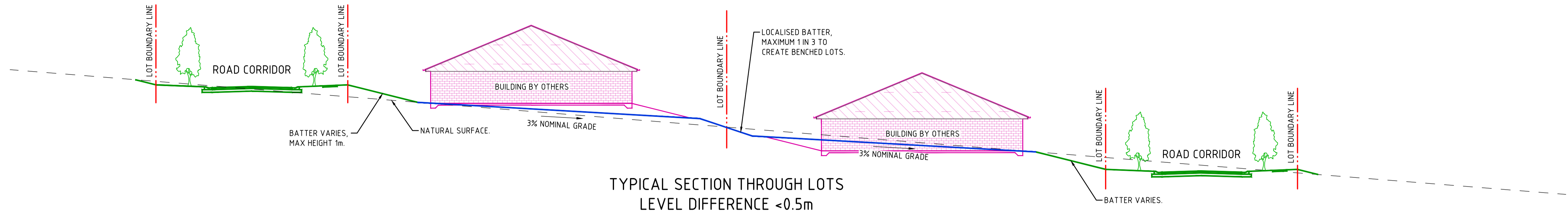
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.22

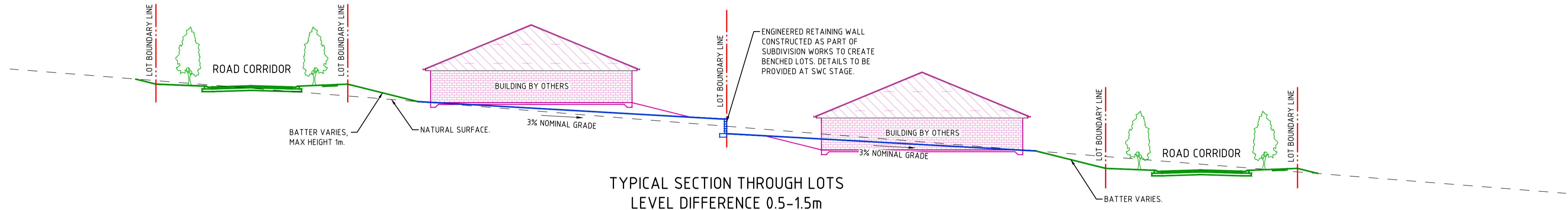
REVISION
F

DRAWING SHEET SIZE = A1

DRAWN: J STAUB
DESIGNED: A TURBULL
JOB MANAGER: L MCRAE
VERIFIER: L MCRAE



TYPICAL SECTION THROUGH LOTS
LEVEL DIFFERENCE < 0.5m



TYPICAL SECTION THROUGH LOTS
LEVEL DIFFERENCE 0.5-1.5m

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



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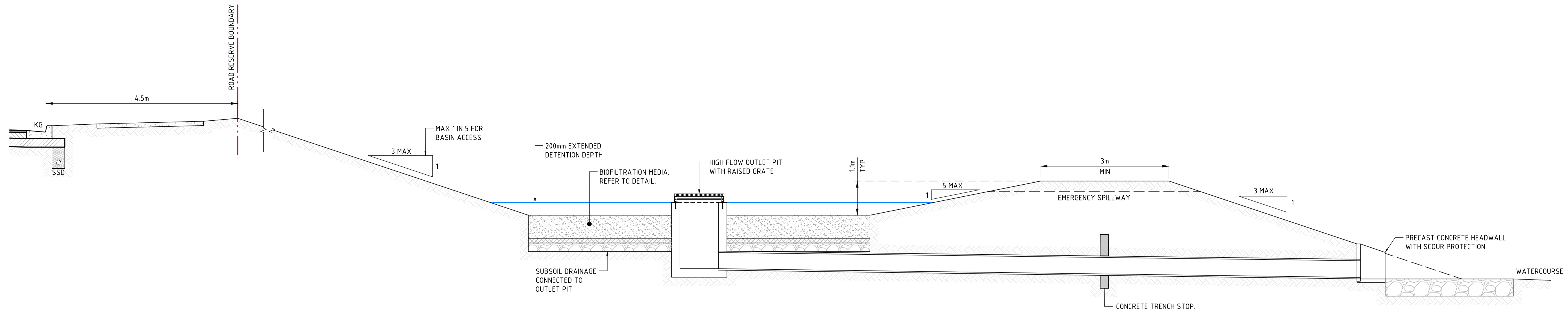
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DRAWING TITLE

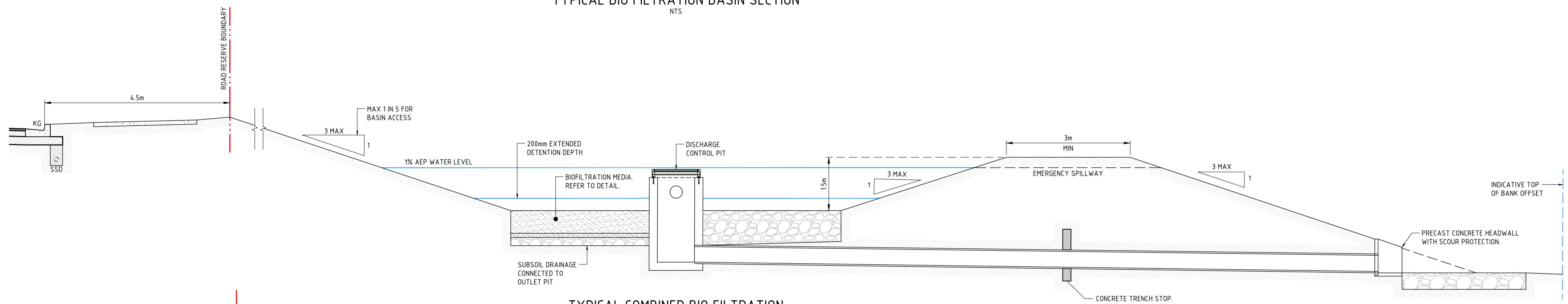
CIVIL ENGINEERING PACKAGE

TYPICAL SECTIONS THROUGH LOTS

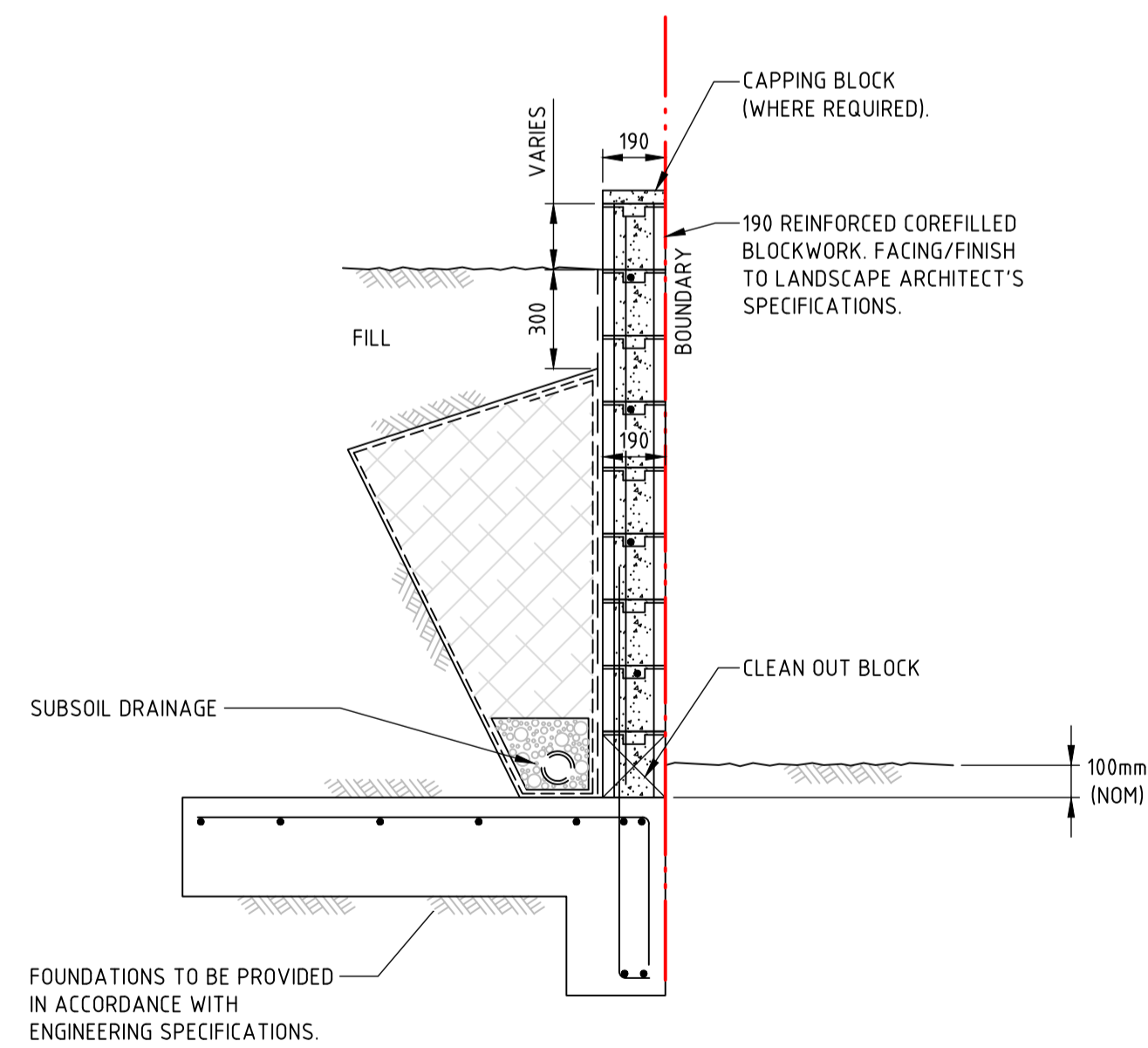
JOB NUMBER	
NL222055-01	
DRAWING NUMBER	REVISION
MP-C05.25	B
DRAWING SHEET SIZE = A1	



TYPICAL BIO FILTRATION BASIN SECTION
NTS

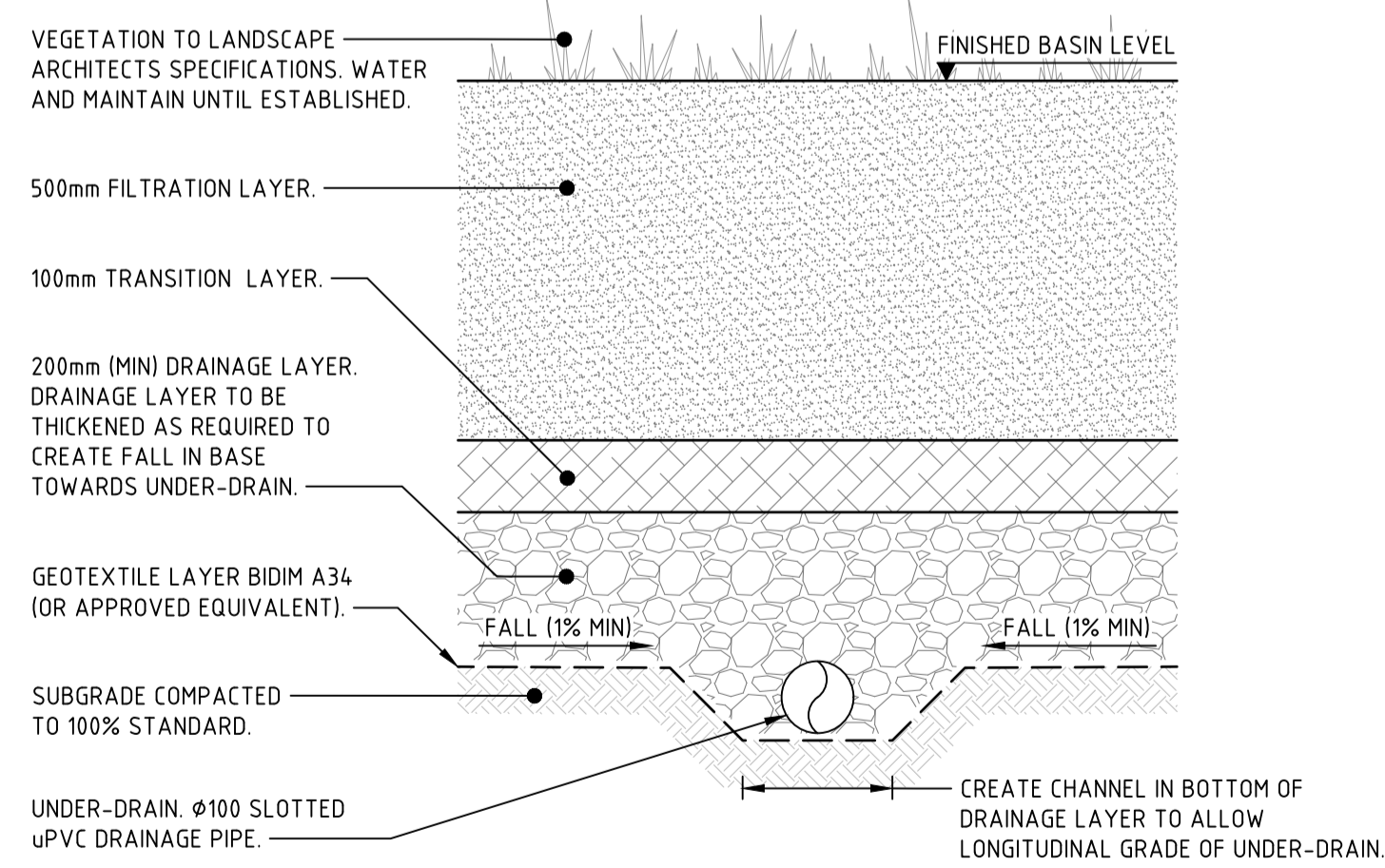


TYPICAL COMBINED BIO FILTRATION AND DETENTION BASIN SECTION
NTS



TYPICAL RETAINING WALL UP TO 1.5m HEIGHT

BLOCKWORK RETAINING WALL OPTION SHOWN FINAL WALL TYPE AND STRUCTURAL DETAILING TO BE CONFIRMED AT SWC STAGE.



BIOFILTRATION MEDIA DETAIL

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE DRAWN: J.STAUB



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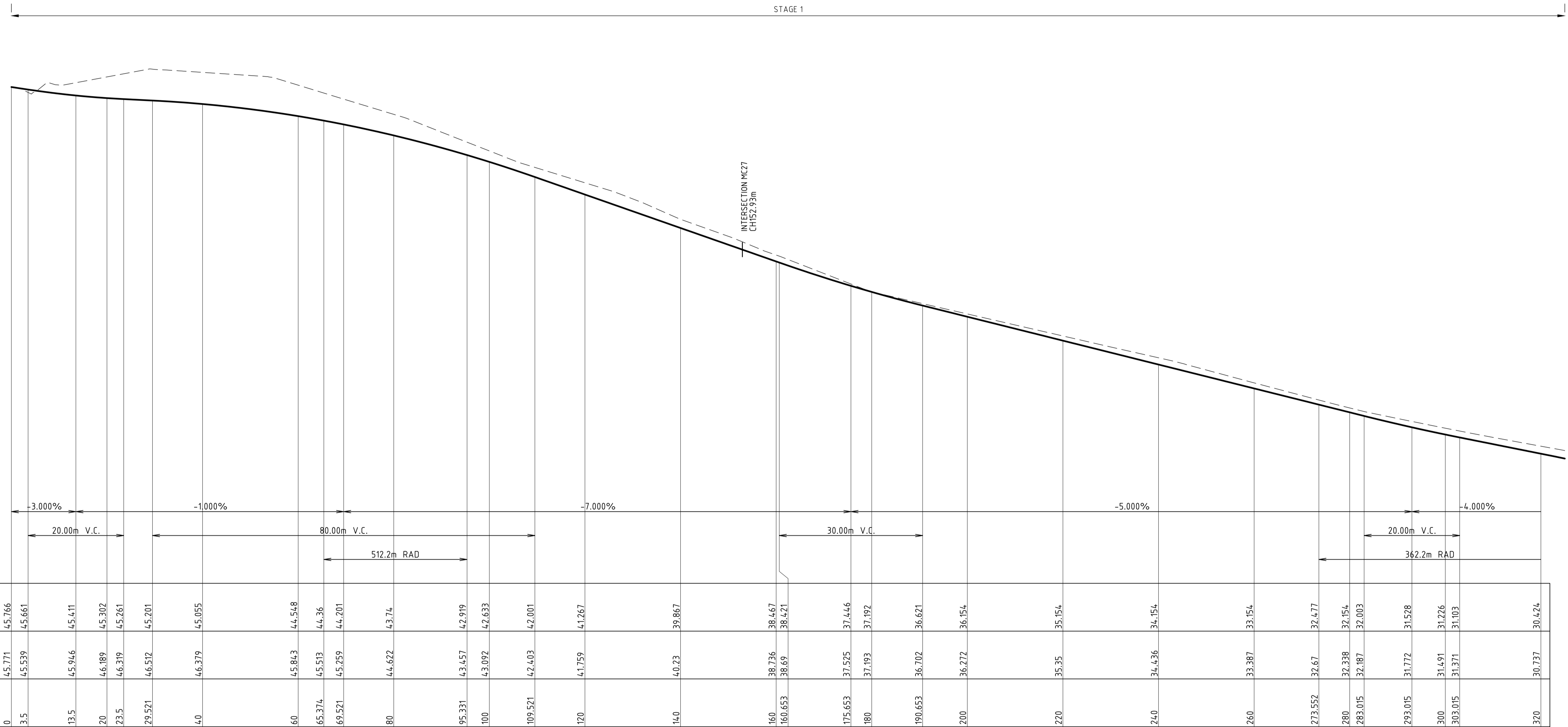
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559 ANAMBAH ROAD
GOSFORTH NSW 2320**
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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
TYPICAL CIVIL DETAILS

JOB NUMBER NL222055-01	
DRAWING NUMBER MP-C05.26	REVISION B
DRAWING SHEET SIZE = A1	

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



LONGITUDINAL SECTION ALONG MC01
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:500@A1
SCALE 1:100@A1

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PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**
MASTERPLANNING DA

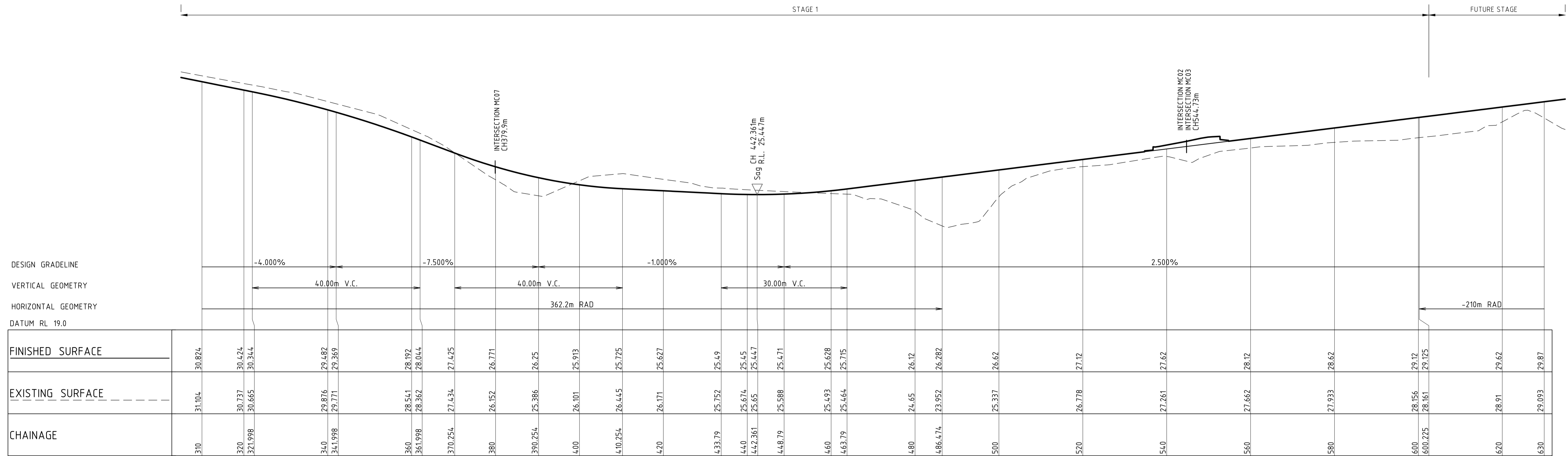
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**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 1**

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.31	REVISION C
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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC01
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:500@A1
SCALE 1:100@A1

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DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 2**

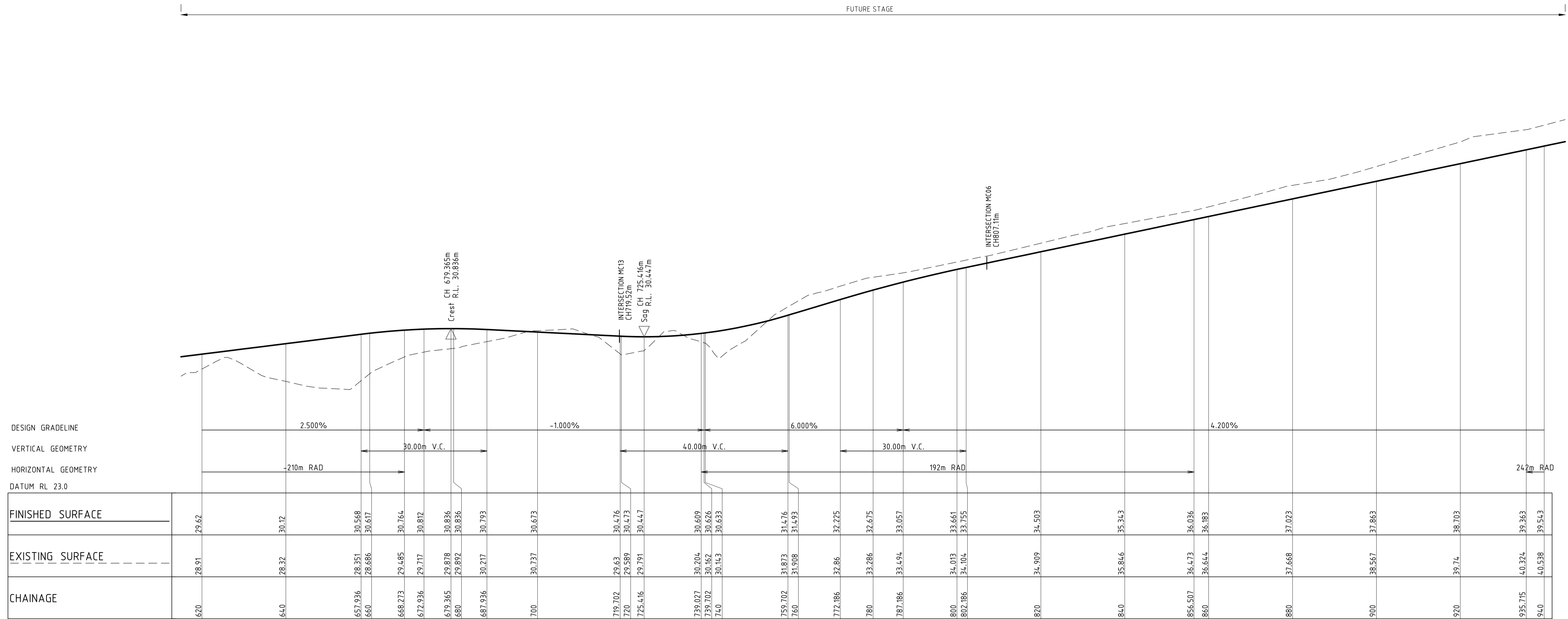
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.32

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC01
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:100@A1

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559 ANAMBAH ROAD
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DRAWING TITLE
CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS - SHEET 3

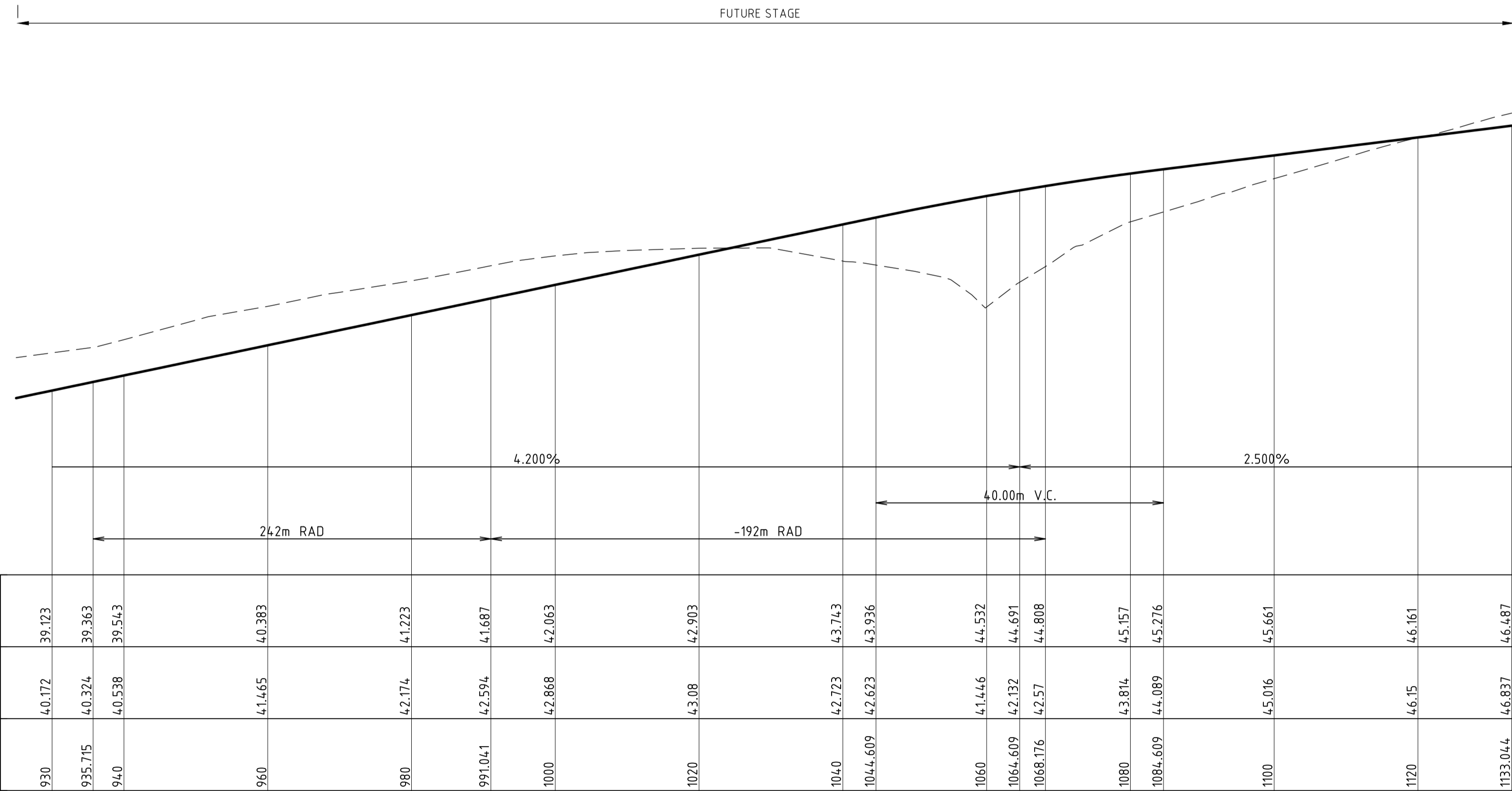
JOB NUMBER
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DRAWING NUMBER
MP-C05.33

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC01
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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 SCALE 1:100@A1

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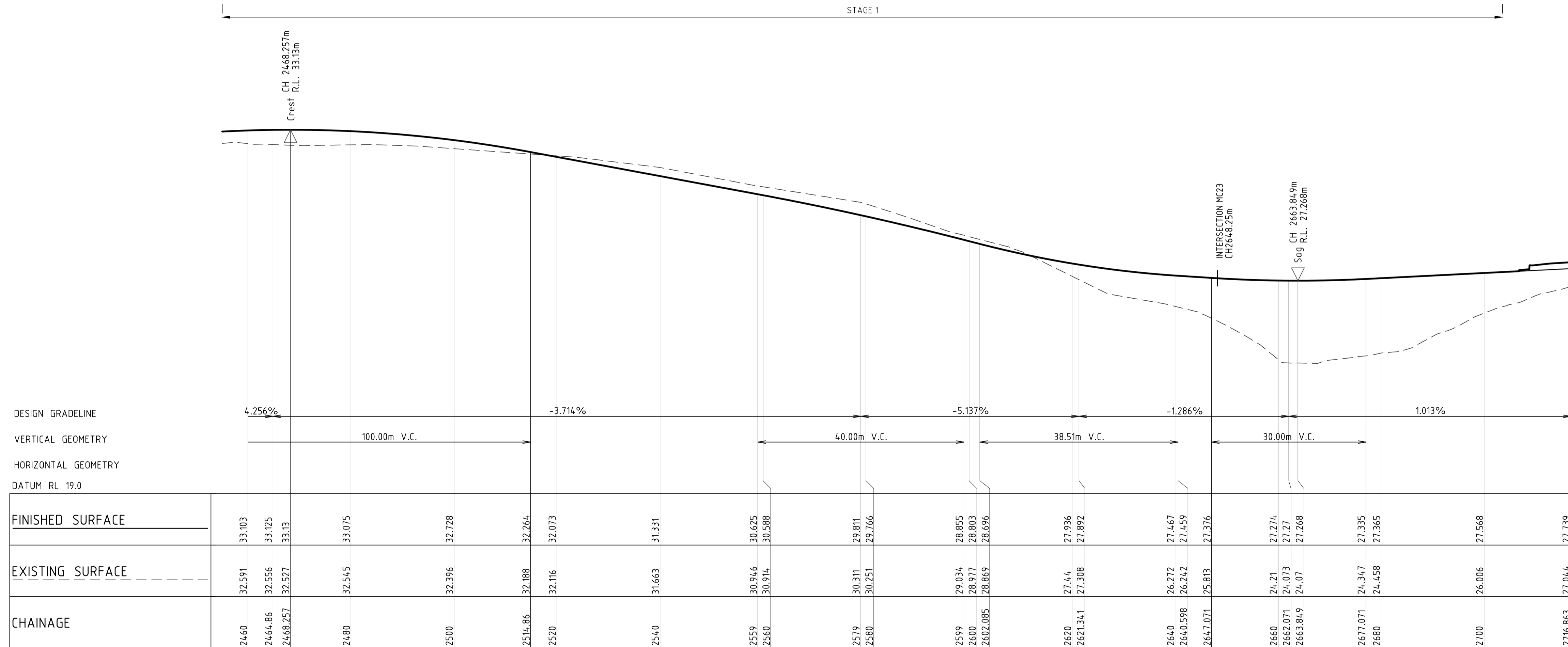
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CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS - SHEET 4

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.34	REVISION C
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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC02

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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SCALE 1:100@A1

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559 ANAMBAH ROAD
GOSFORTH NSW 2320**
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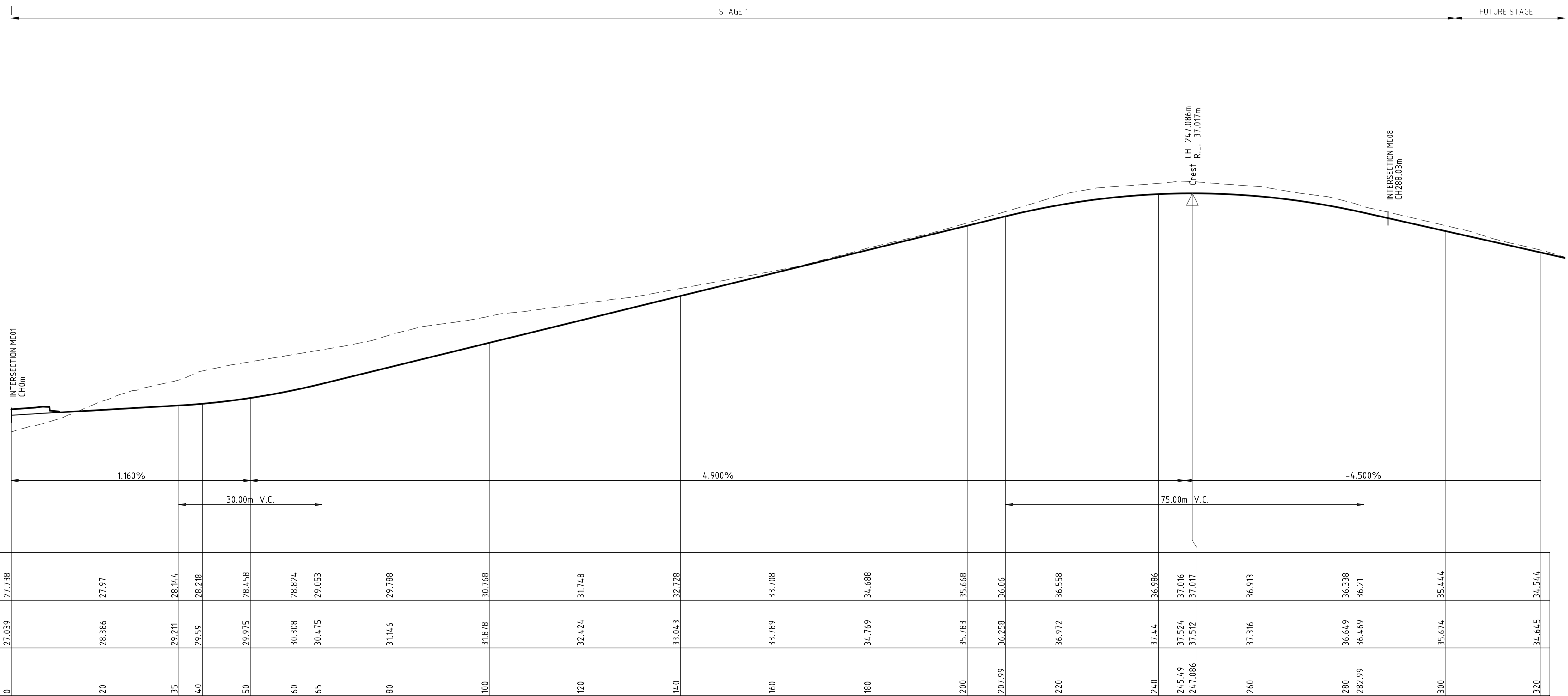
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CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS - SHEET 5

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.35	REVISION C
------------------------------------	----------------------

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC03
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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 SCALE 1:500@A1
 SCALE 1:100@A1

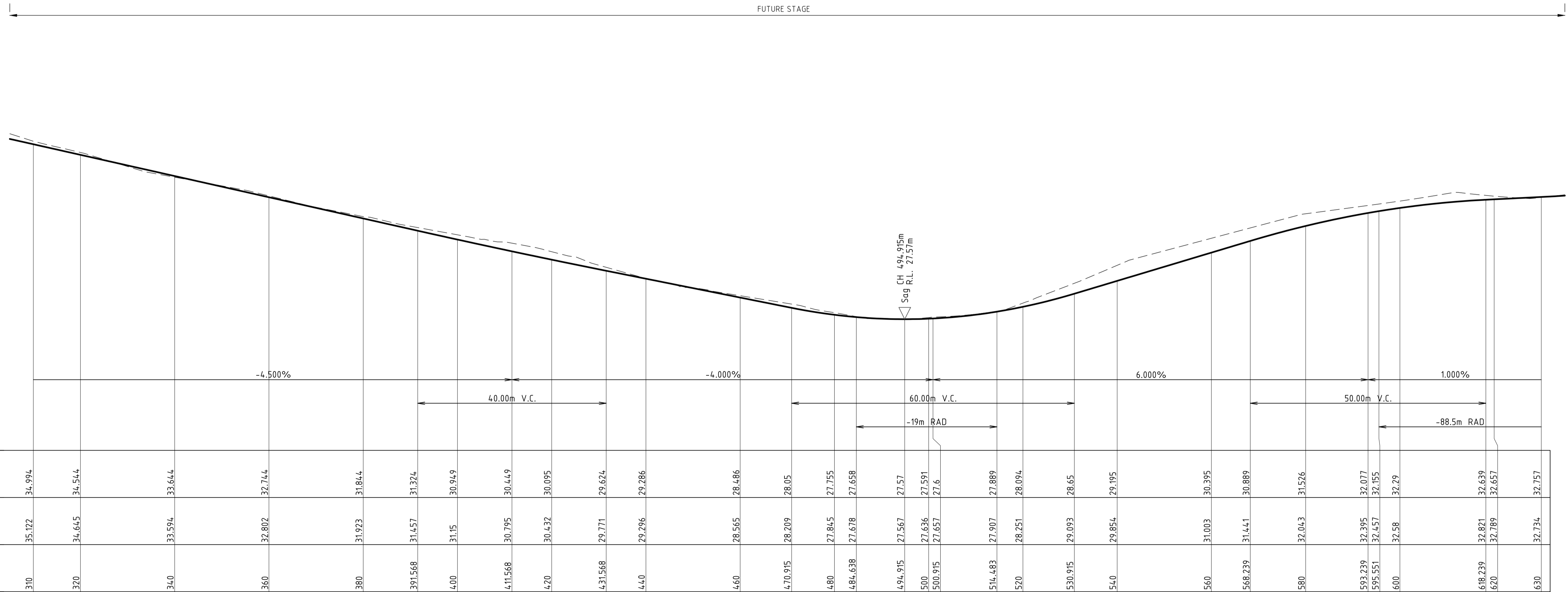
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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS - SHEET 6

JOB NUMBER
NL222055-01
 DRAWING NUMBER
MP-C05.36
 REVISION
C
 DRAWING SHEET SIZE = A1

DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE



LONGITUDINAL SECTION ALONG MC03
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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A	DRAFT ISSUE	JS		AK	09.08.24	 DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED
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SCALE 1:500@A1
SCALE 1:100@A1

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**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

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DRAWING TITLE

CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS - SHEET 7

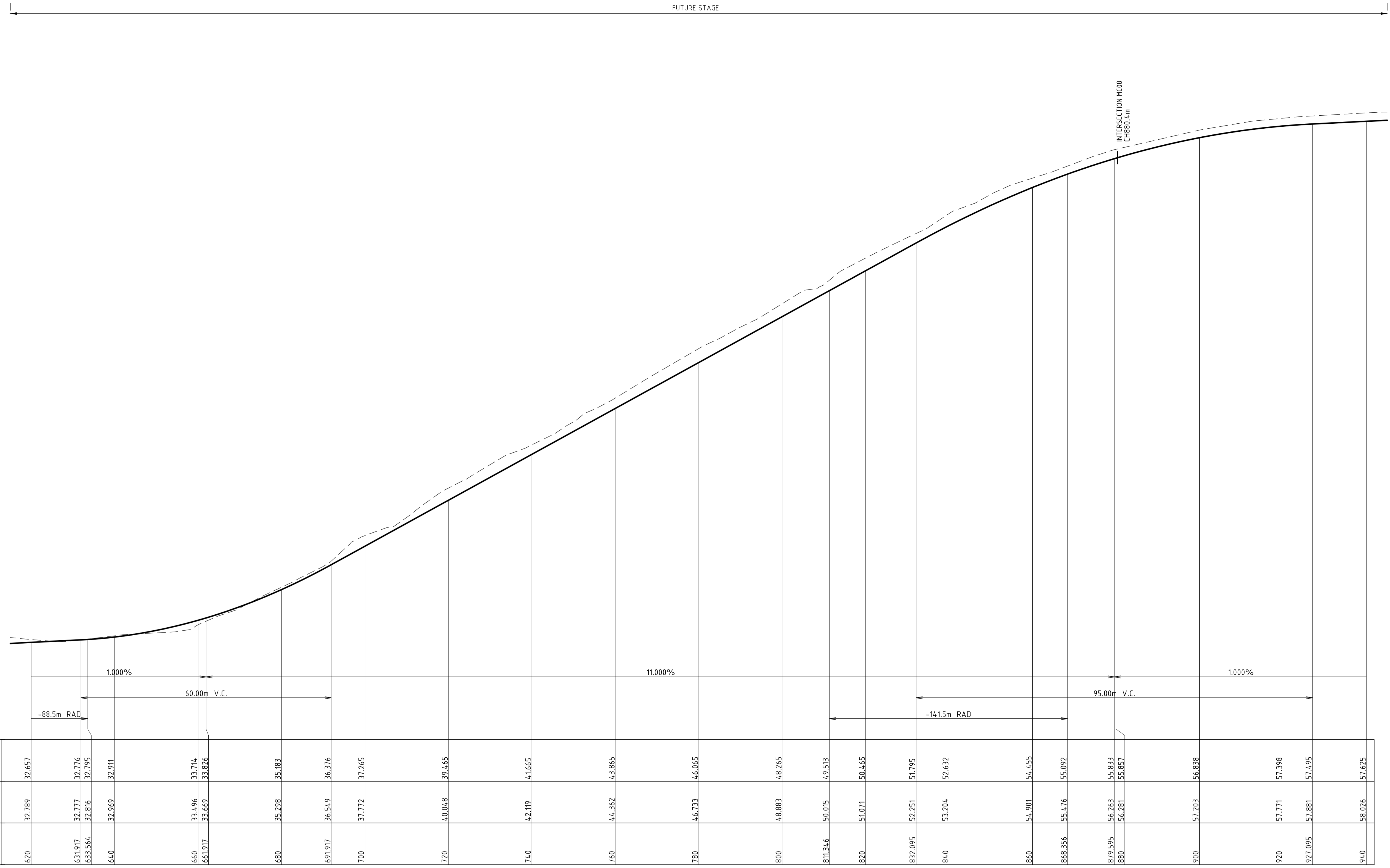
JOB NUMBER

NL222055-01

DRAWING NUMBER	REVISION
MP-C05.37	C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC03

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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A	DRAFT ISSUE	JS		AK	09.08.24
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SCALE 1:100@A1

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ROAD LONGITUDINAL SECTIONS - SHEET 8

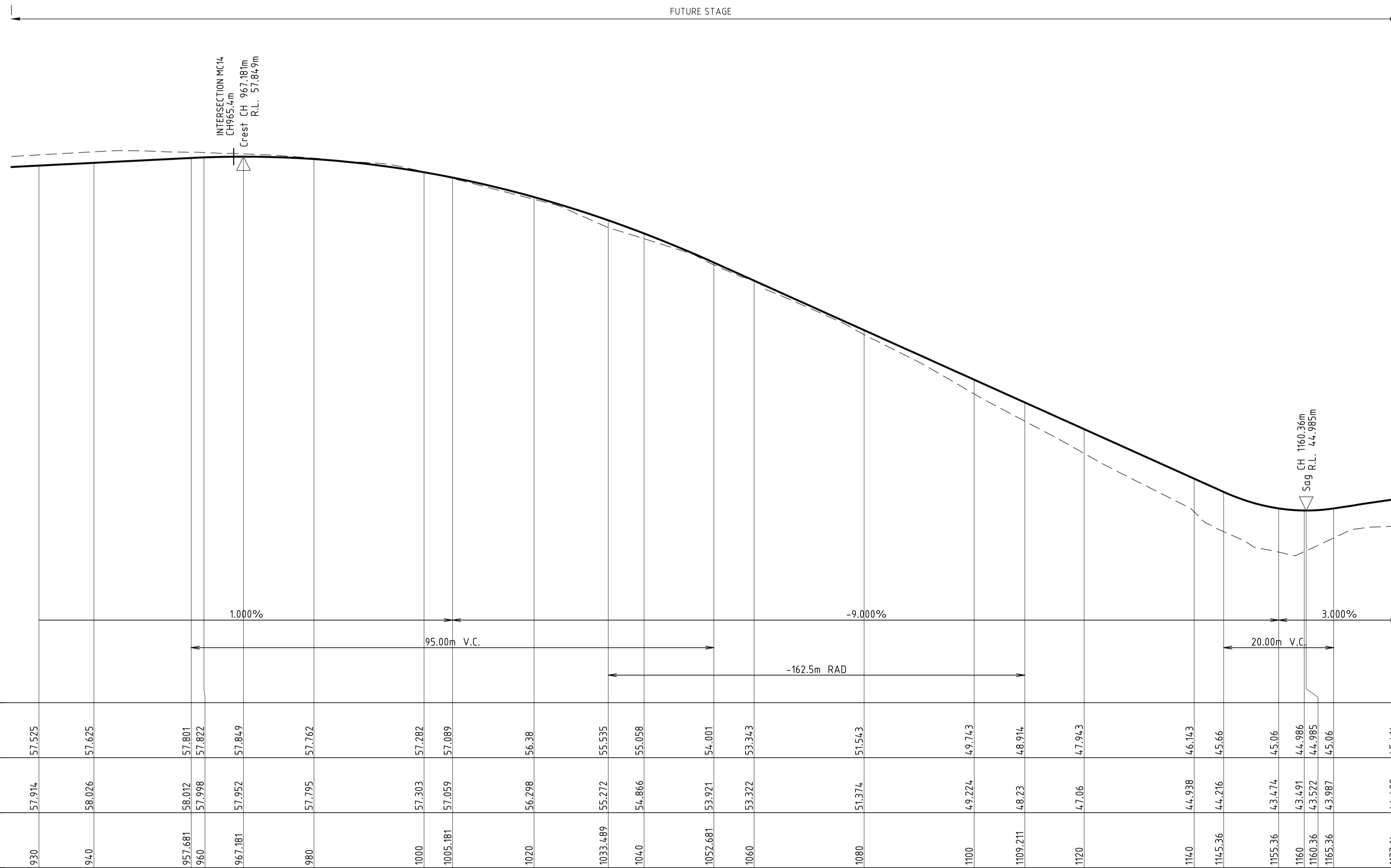
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.38

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC03
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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A	DRAFT ISSUE	JS		AK	09.08.24
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SCALE 1:100@A1

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ROAD LONGITUDINAL SECTIONS - SHEET 9

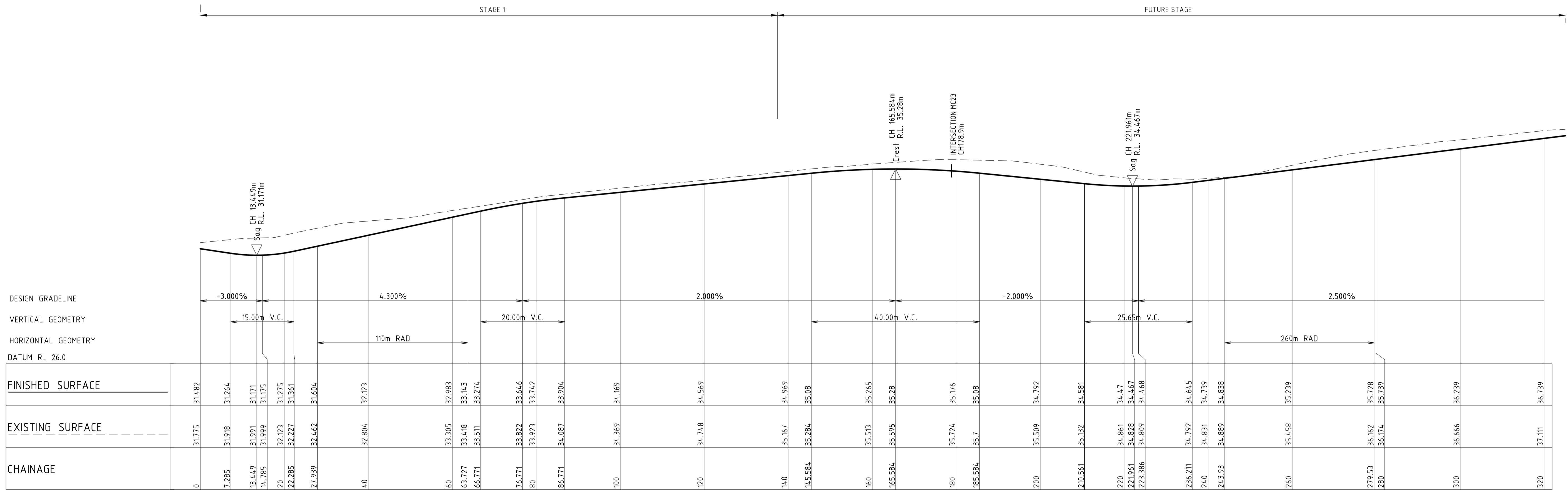
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.39

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
 DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC04
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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 SCALE 1:100@A1

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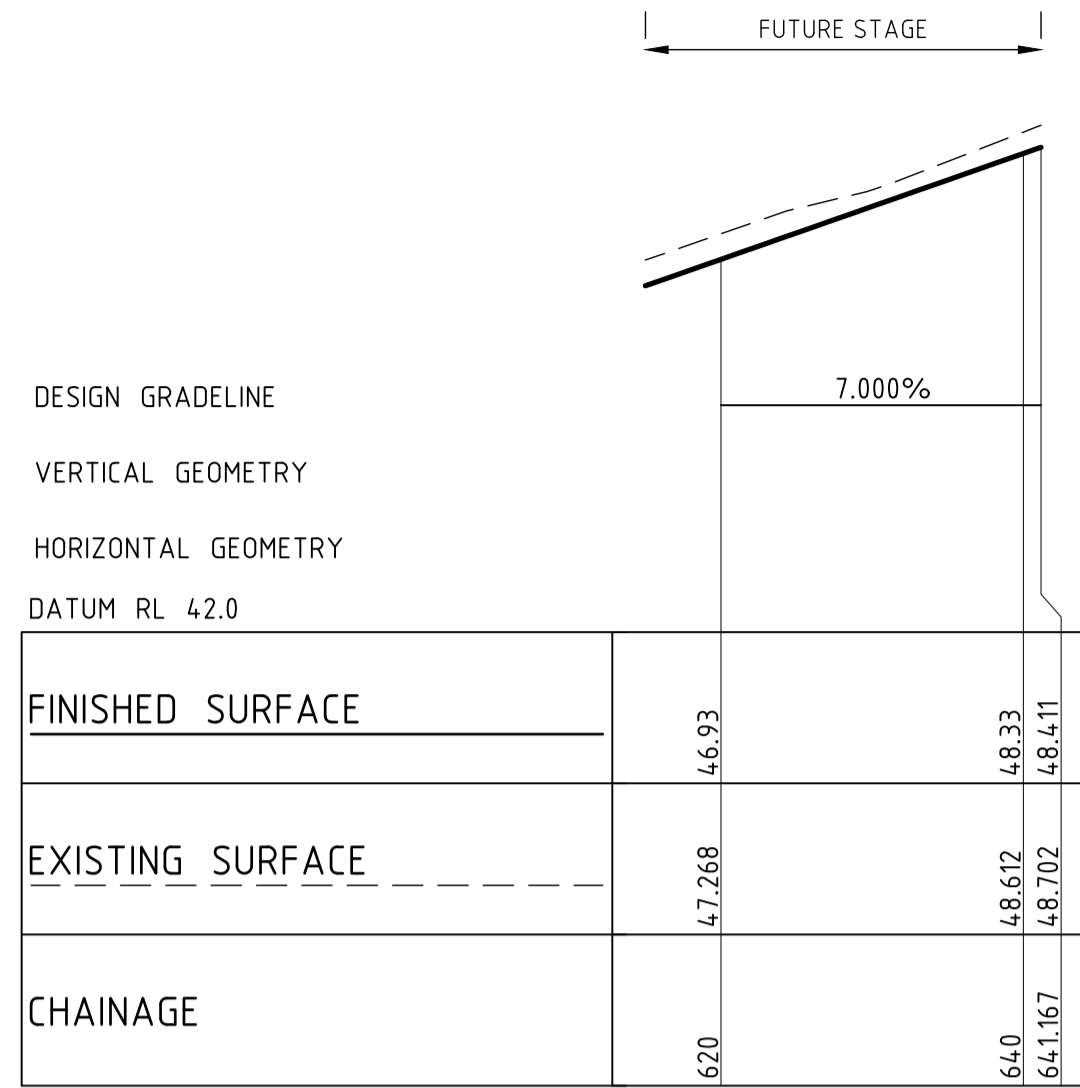
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**PROPOSED SUBDIVISION
 559 ANAMBAH ROAD
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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
**ROAD LONGITUDINAL SECTIONS -
 SHEET 10**

JOB NUMBER
NL222055-01

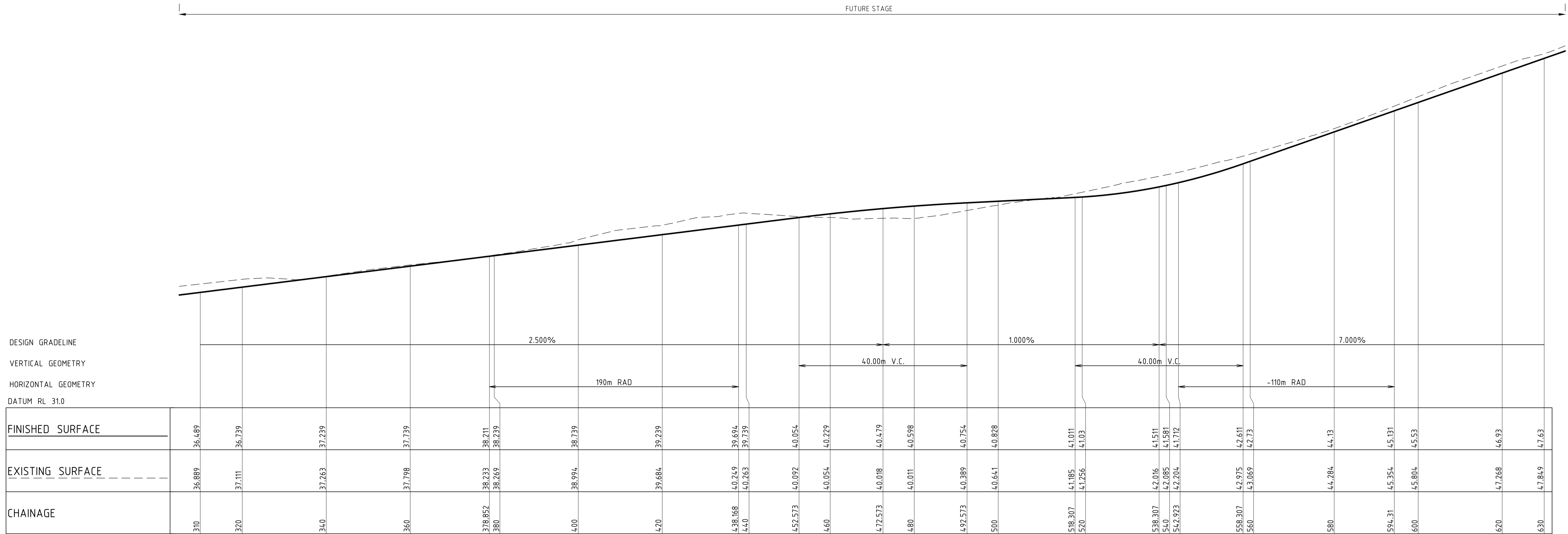
DRAWING NUMBER	REVISION
MP-C05.40	C

DRAWING SHEET SIZE = A1



LONGITUDINAL SECTION ALONG MC04

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



LONGITUDINAL SECTION ALONG MC04

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE
DRAWN: J.STAUB VERIFIER: L.MCRAE



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DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 11**

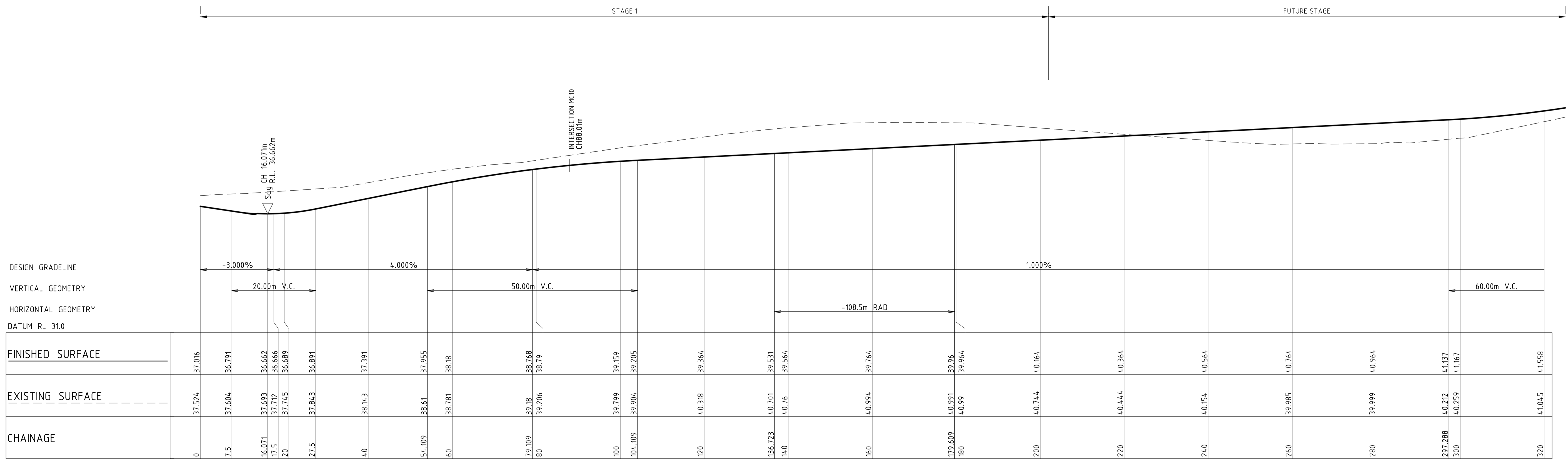
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.41

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC05
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:100@A1

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DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 12**

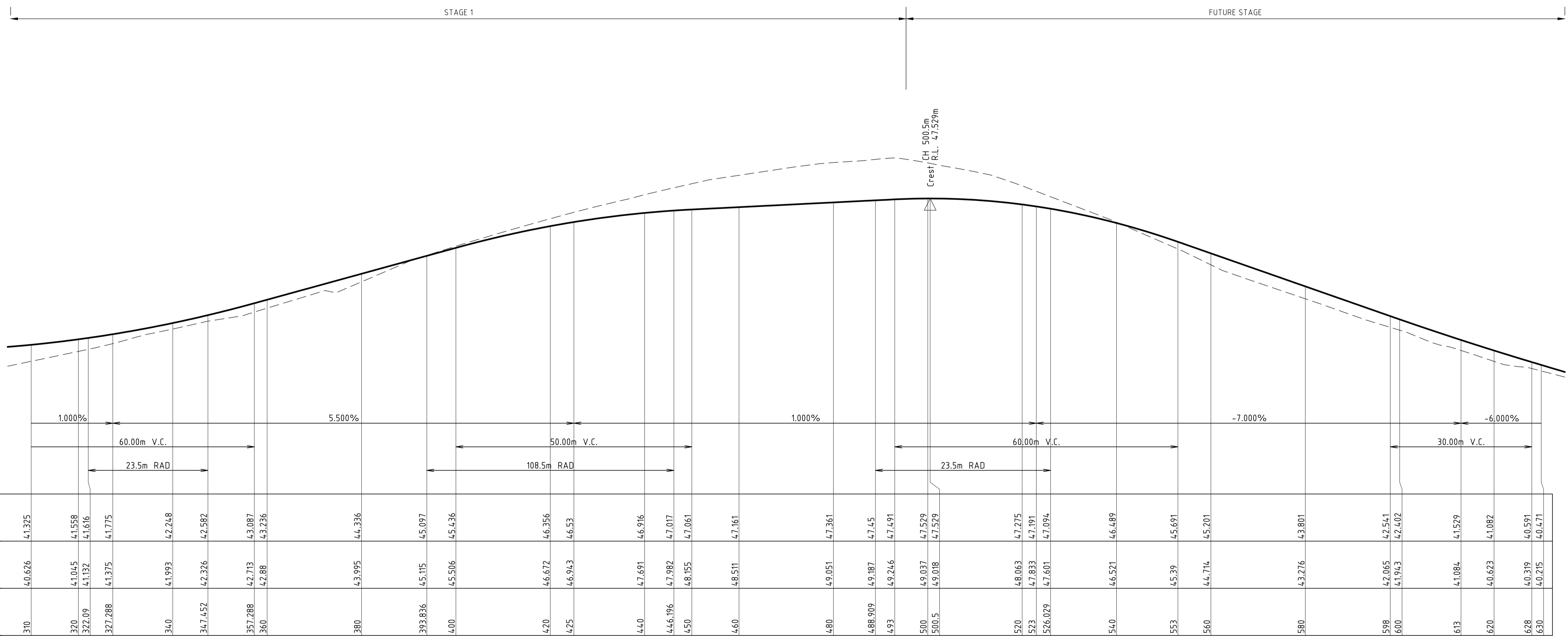
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.42

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC05
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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COUNCIL: **maitland city council**

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SCALE 1:500@A1
SCALE 1:100@A1

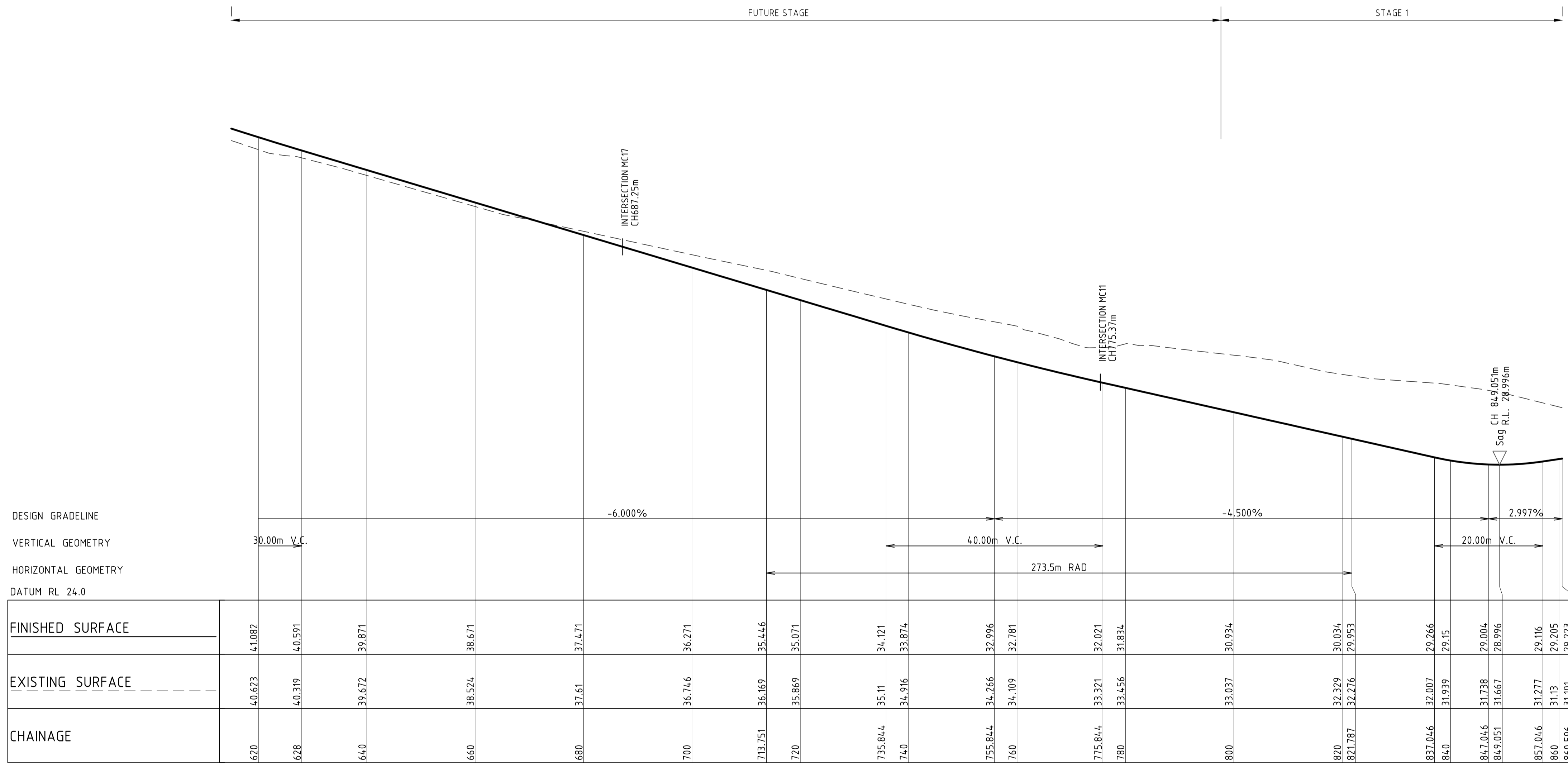
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ABN 81 094 433 100

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DRAWING TITLE: **CIVIL ENGINEERING PACKAGE**
ROAD LONGITUDINAL SECTIONS - SHEET 13

JOB NUMBER: **NL222055-01**
DRAWING NUMBER: **MP-C05.43**
REVISION: **C**
DRAWING SHEET SIZE = A1

DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE



LONGITUDINAL SECTION ALONG MC05
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:100@A1

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GOSFORTH NSW 2320
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DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 14**

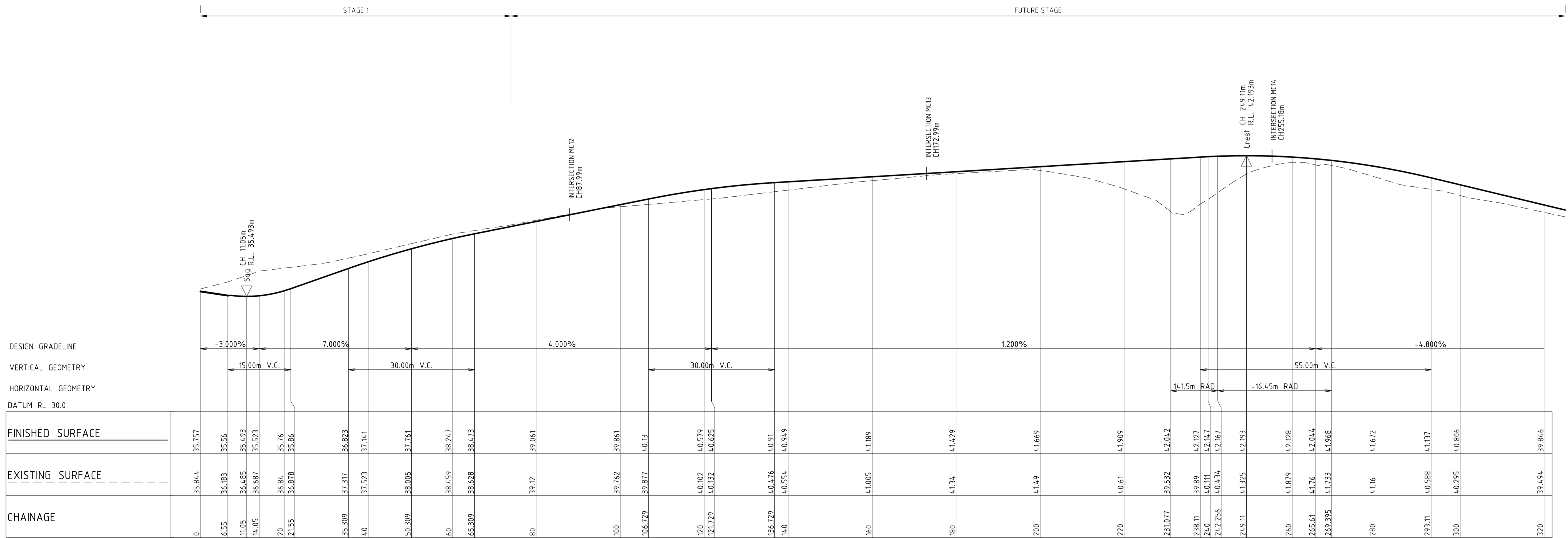
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.44

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC06
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
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SCALE 1:100@A1

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CIVIL ENGINEERING PACKAGE

**ROAD LONGITUDINAL SECTIONS -
SHEET 15**

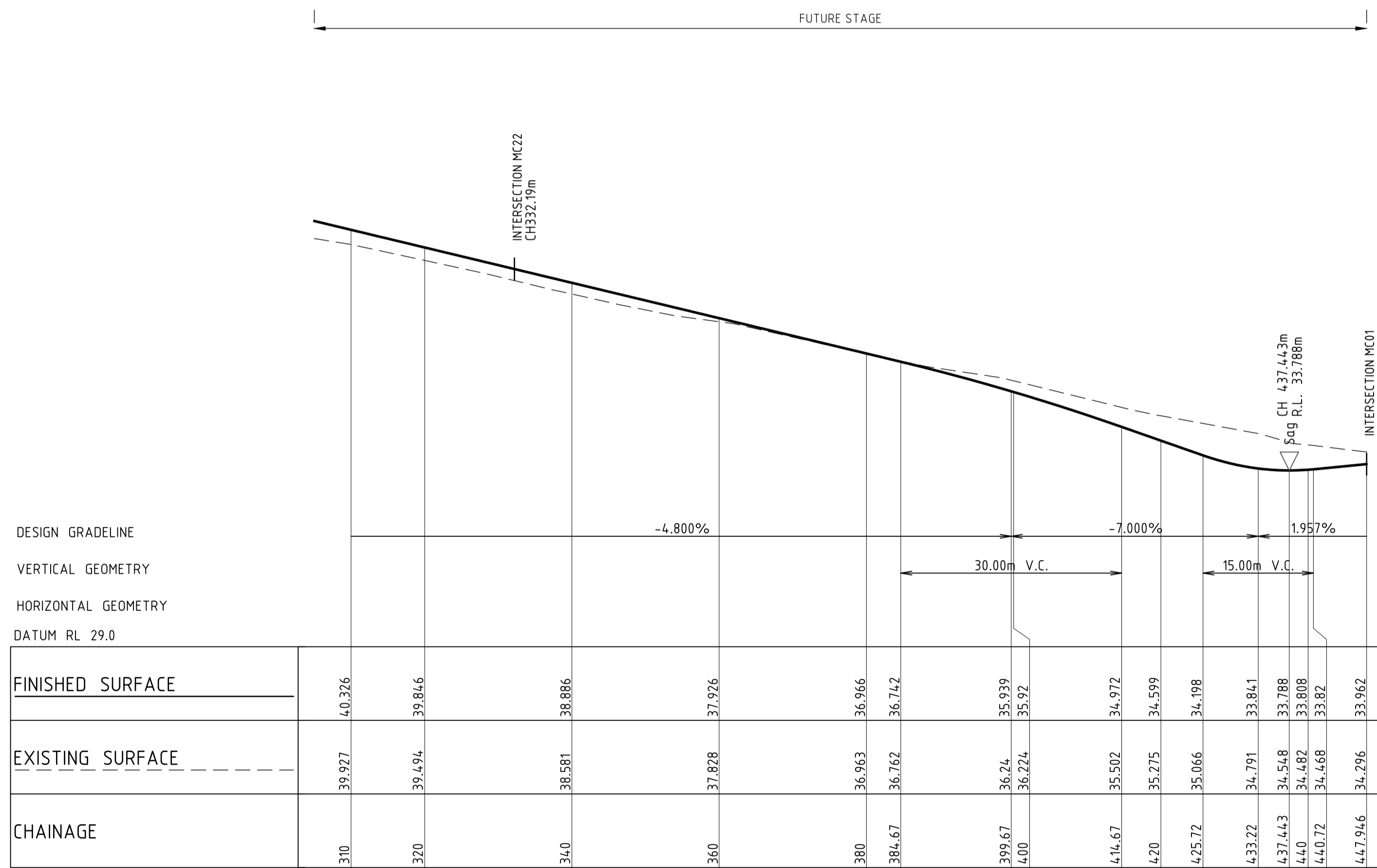
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.45

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC06
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	DRAFT ISSUE	JS		AK	09.08.24
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SCALE 1:100@A1

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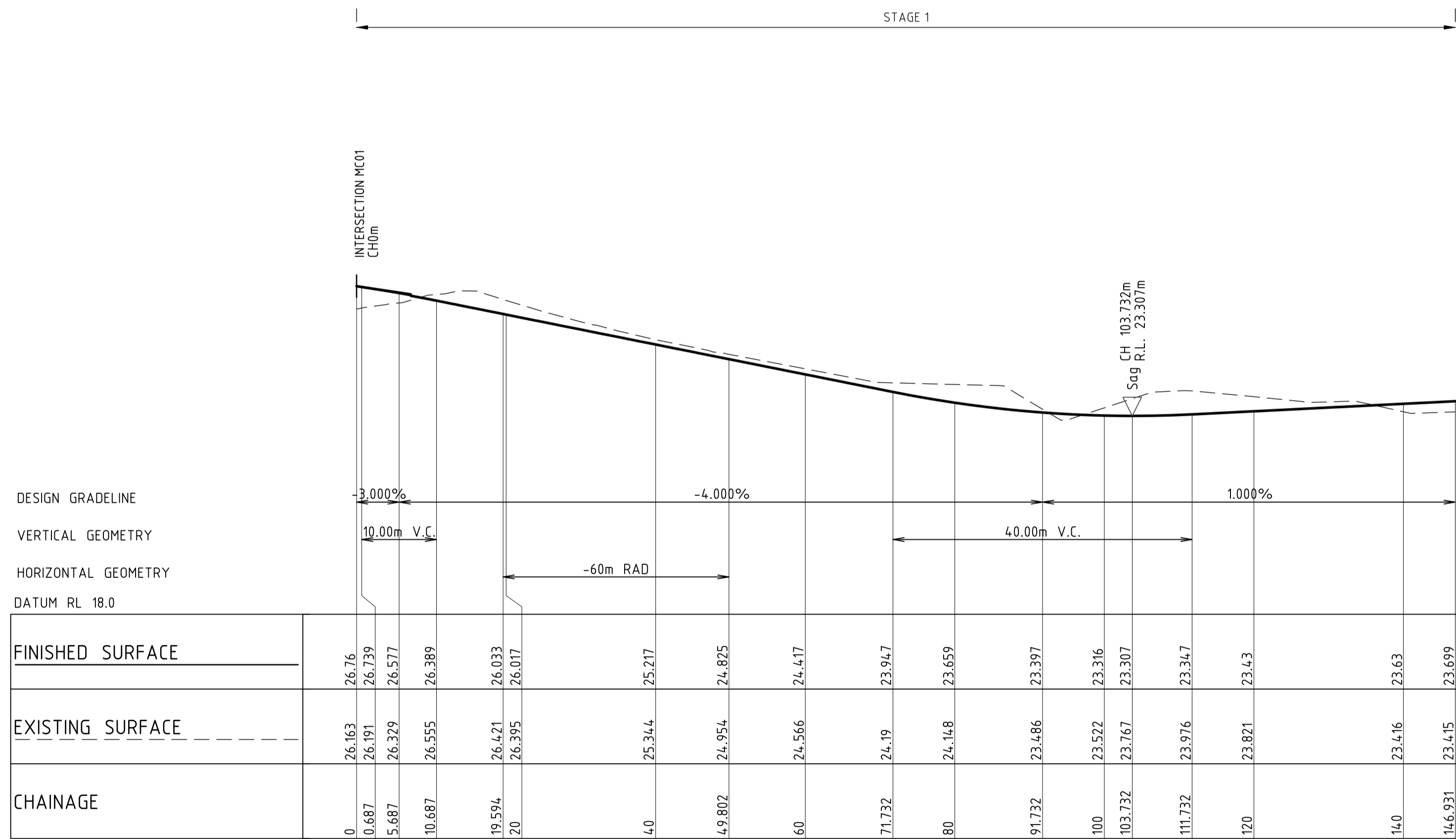
DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 16**

JOB NUMBER
NL222055-01

DRAWING NUMBER	REVISION
MP-C05.46	C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC07
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	DRAFT ISSUE	JS		AK	09.08.24
B	DRAFT ISSUE	JS		AK	15.08.24
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SCALE 1:100@A1

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DRAWING TITLE
CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS - SHEET 17

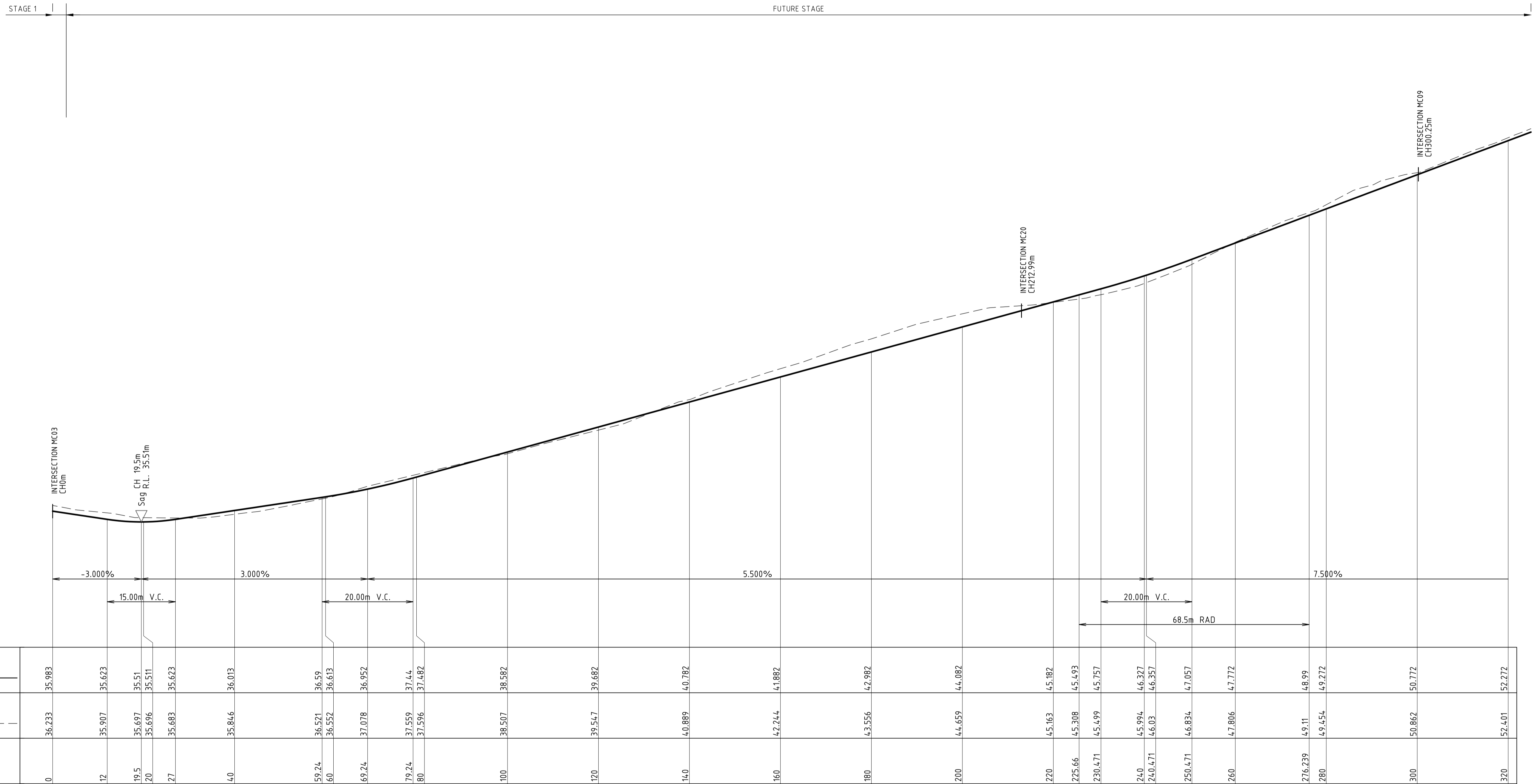
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.47

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC08
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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A	DRAFT ISSUE	JS		AK	09.08.24
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C	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24

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SCALE 1:100@A1

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ABN 81 094 433 100

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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
**ROAD LONGITUDINAL SECTIONS -
SHEET 18**

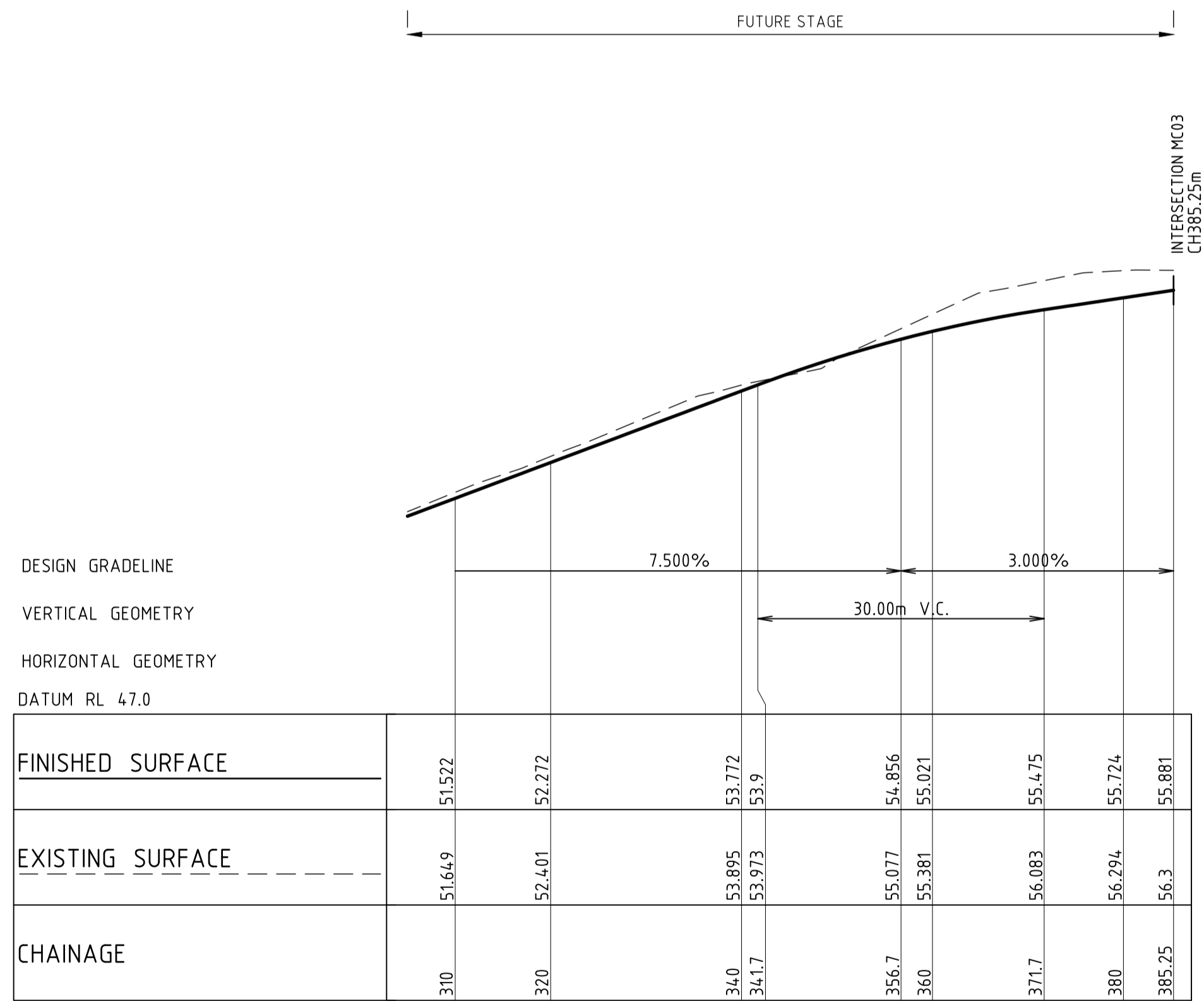
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.48

REVISION
C

DRAWING SHEET SIZE = A1

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



LONGITUDINAL SECTION ALONG MC08
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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B	DRAFT ISSUE	JS		AK	15.08.24
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CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS - SHEET 19

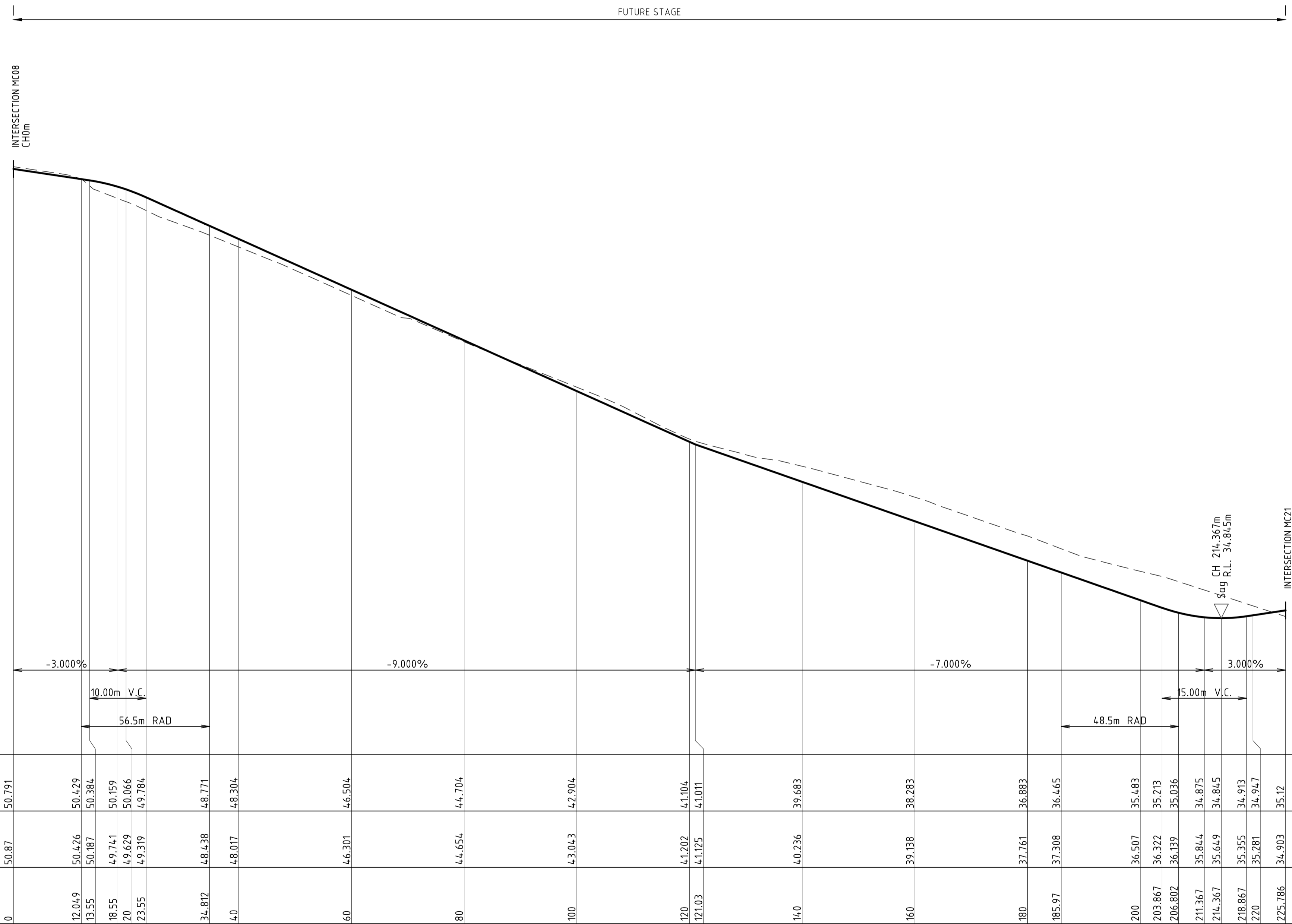
JOB NUMBER

NL222055-01

DRAWING NUMBER	REVISION
MP-C05.49	C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC09
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:500@A1
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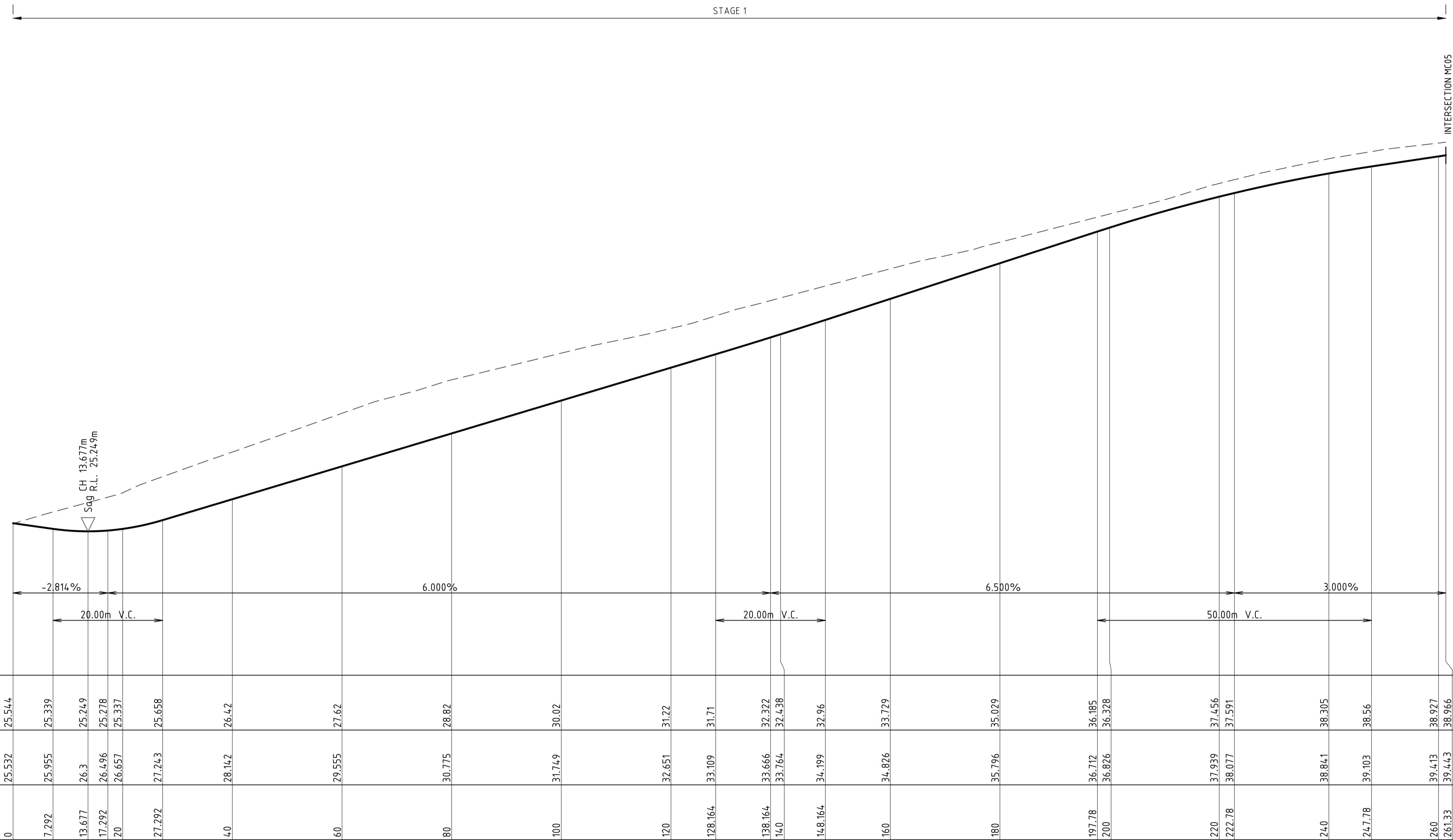
**ROAD LONGITUDINAL SECTIONS -
SHEET 20**

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.50	REVISION C
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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC10

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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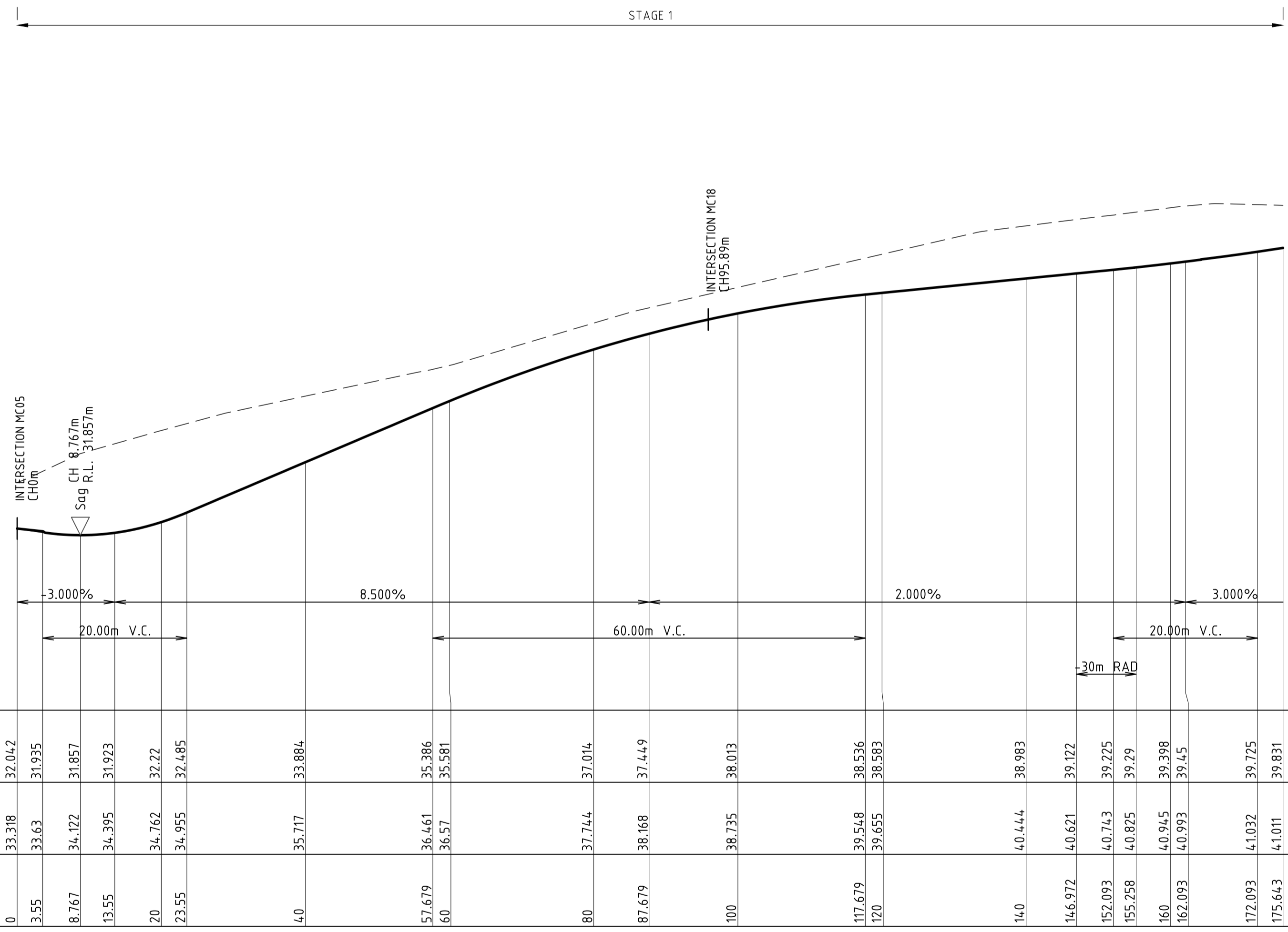
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ROAD LONGITUDINAL SECTIONS - SHEET 21

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.51	REVISION C
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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC11
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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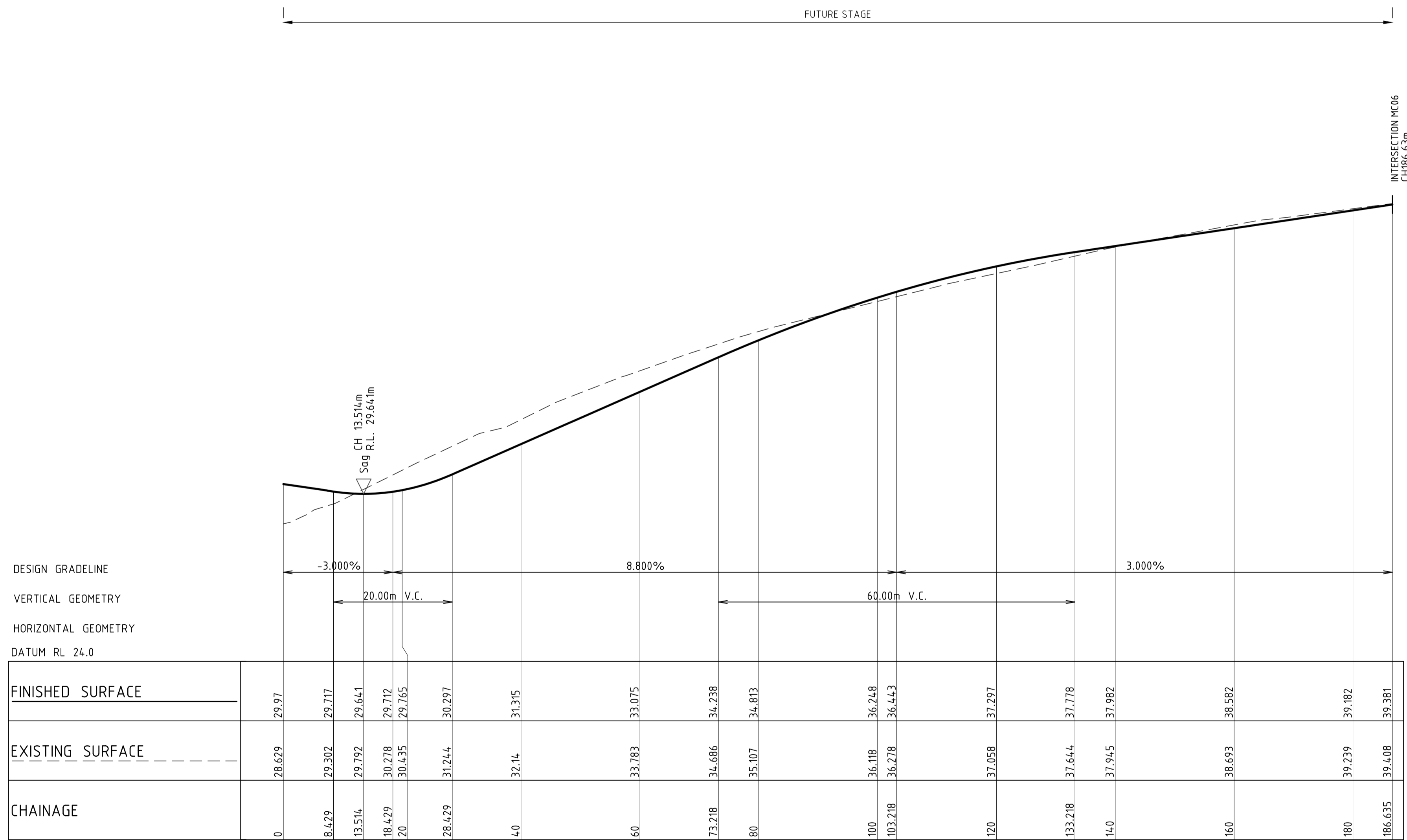
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ROAD LONGITUDINAL SECTIONS -
SHEET 22**

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.52	REVISION C
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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC12
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:100@A1

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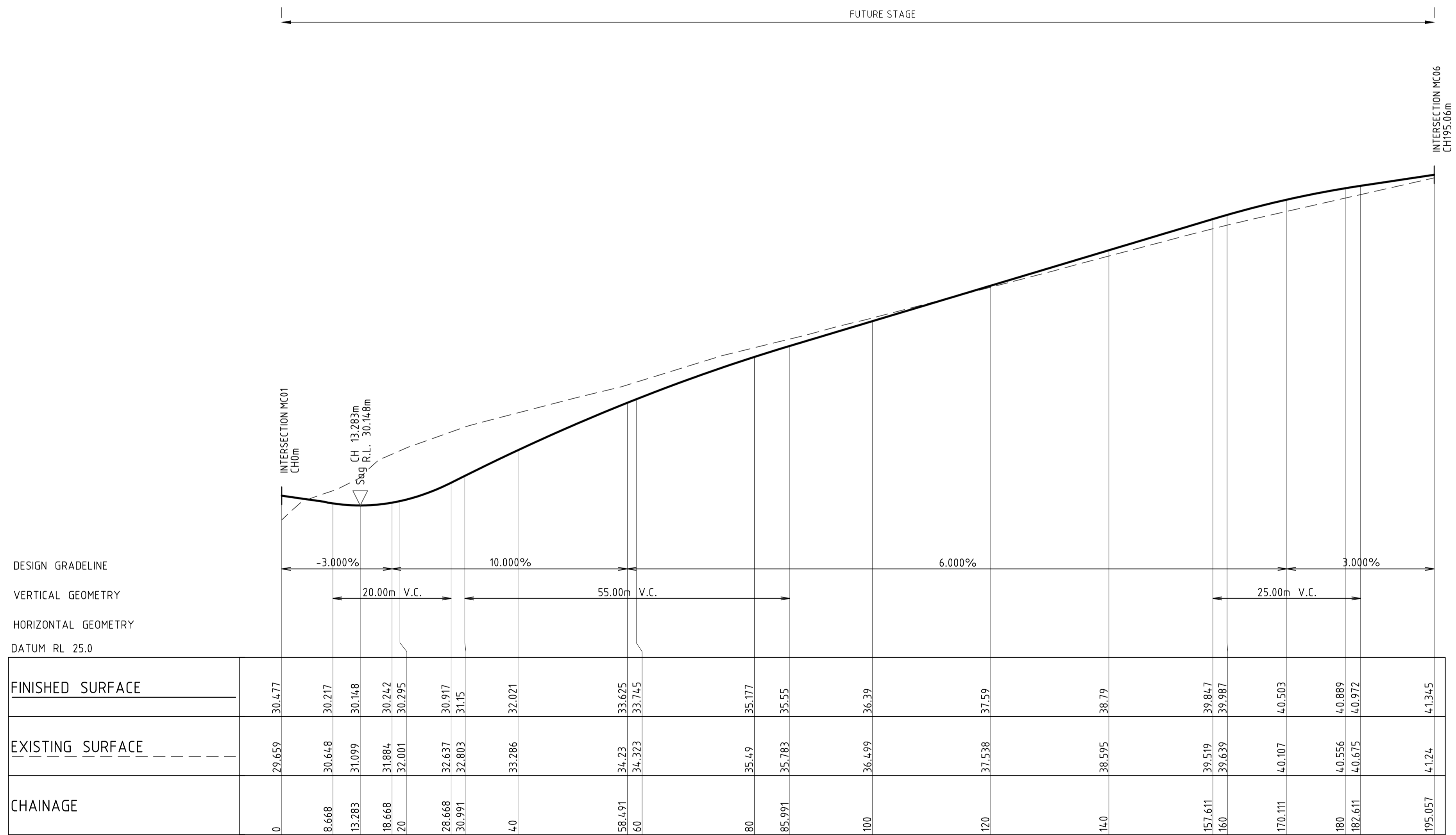
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ROAD LONGITUDINAL SECTIONS - SHEET 23

JOB NUMBER
NL222055-01

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DRAWING SHEET SIZE = A1

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



LONGITUDINAL SECTION ALONG MC13
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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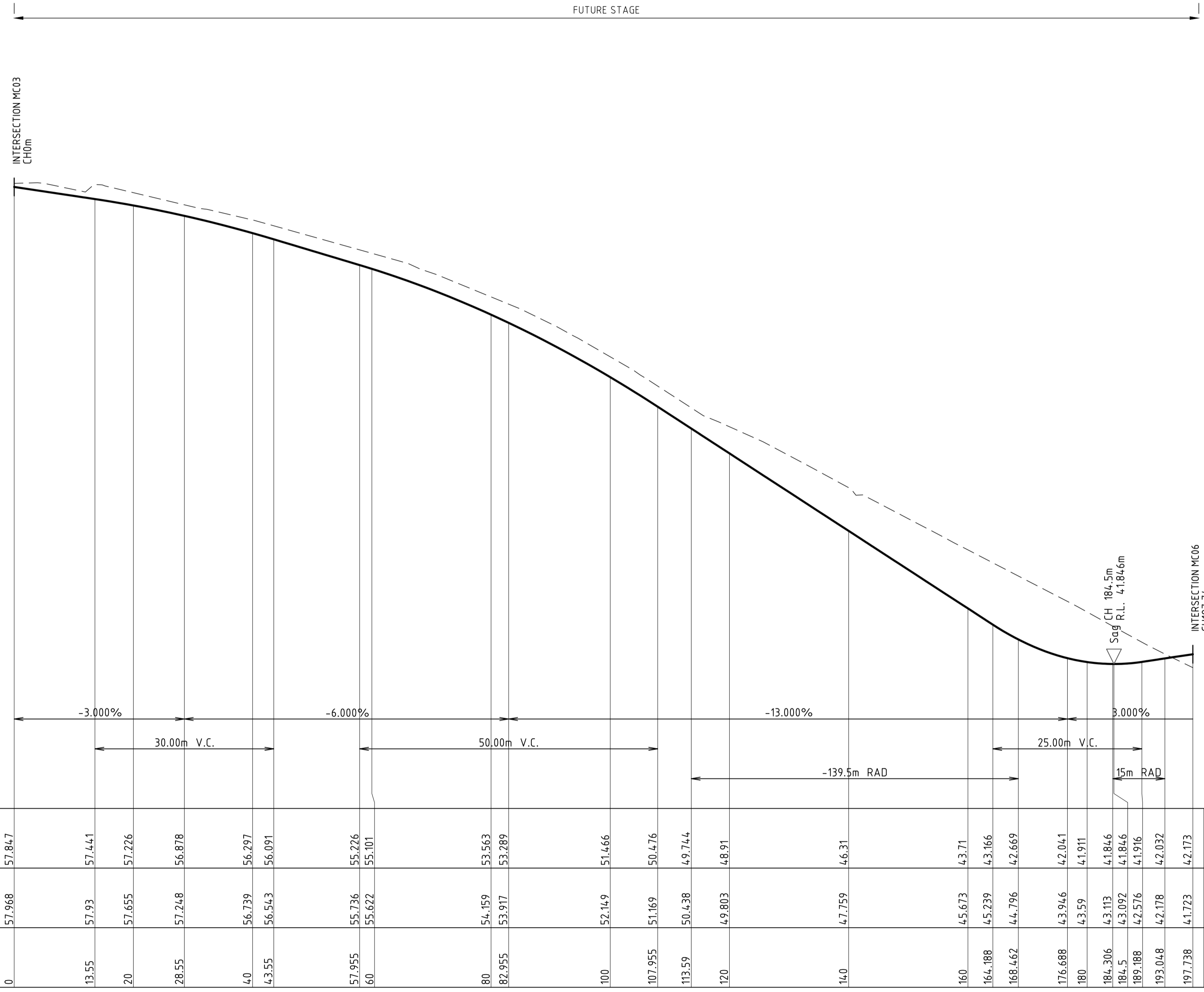
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ROAD LONGITUDINAL SECTIONS - SHEET 24

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.54	REVISION C
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DRAWING SHEET SIZE = A1

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



LONGITUDINAL SECTION ALONG MC14
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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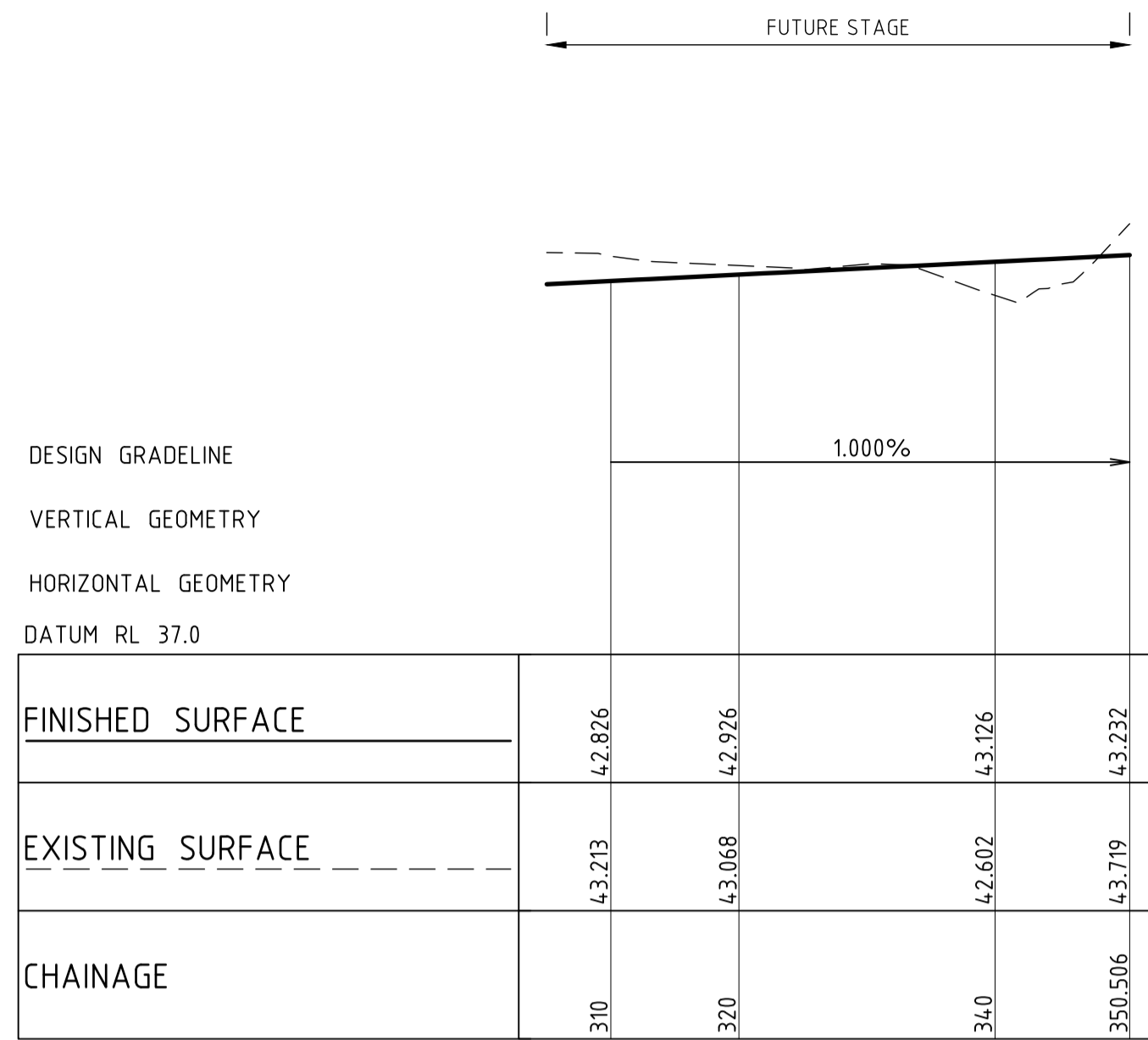
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CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS - SHEET 25

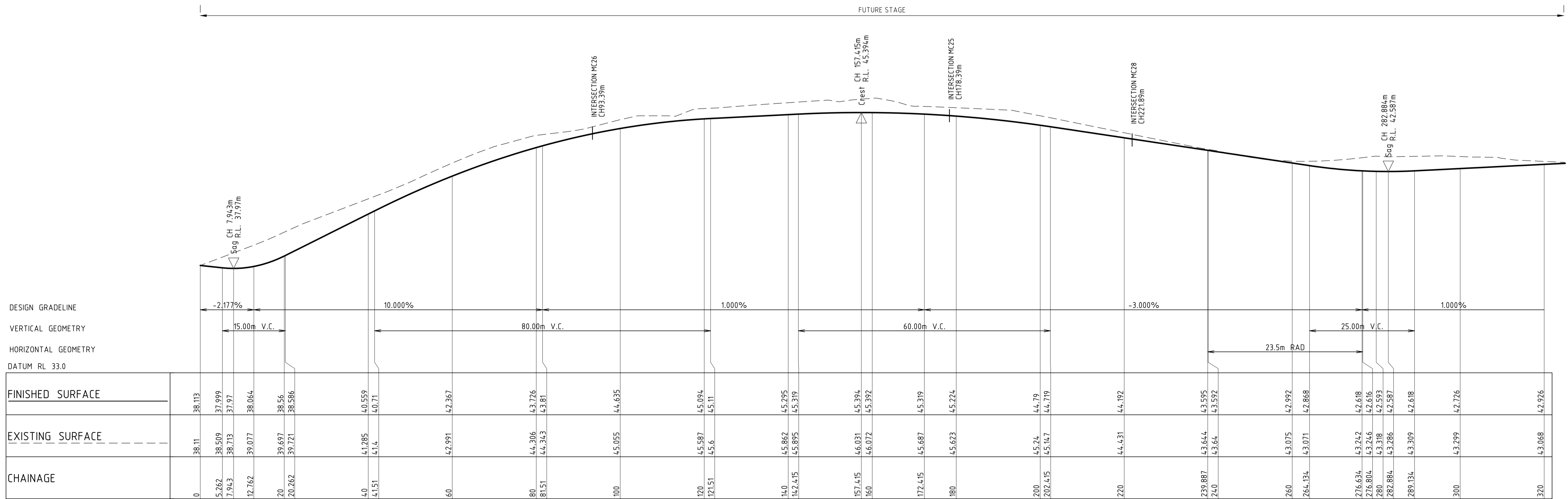
JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.55	REVISION C
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DRAWING SHEET SIZE = A1



LONGITUDINAL SECTION ALONG MC15
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



LONGITUDINAL SECTION ALONG MC15
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
 DRAWN: J.STAUB



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ROAD LONGITUDINAL SECTIONS - SHEET 26

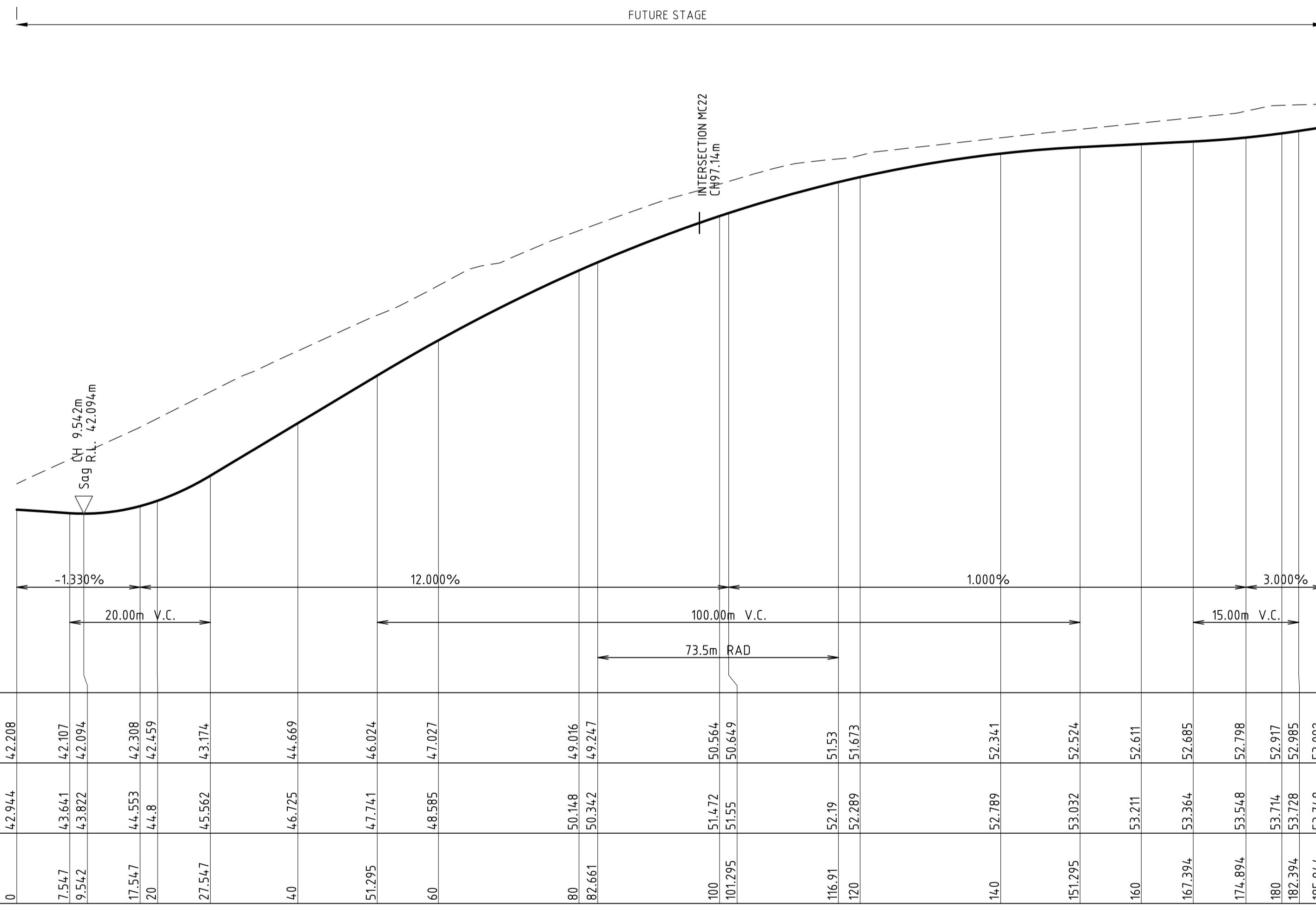
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DRAWING NUMBER
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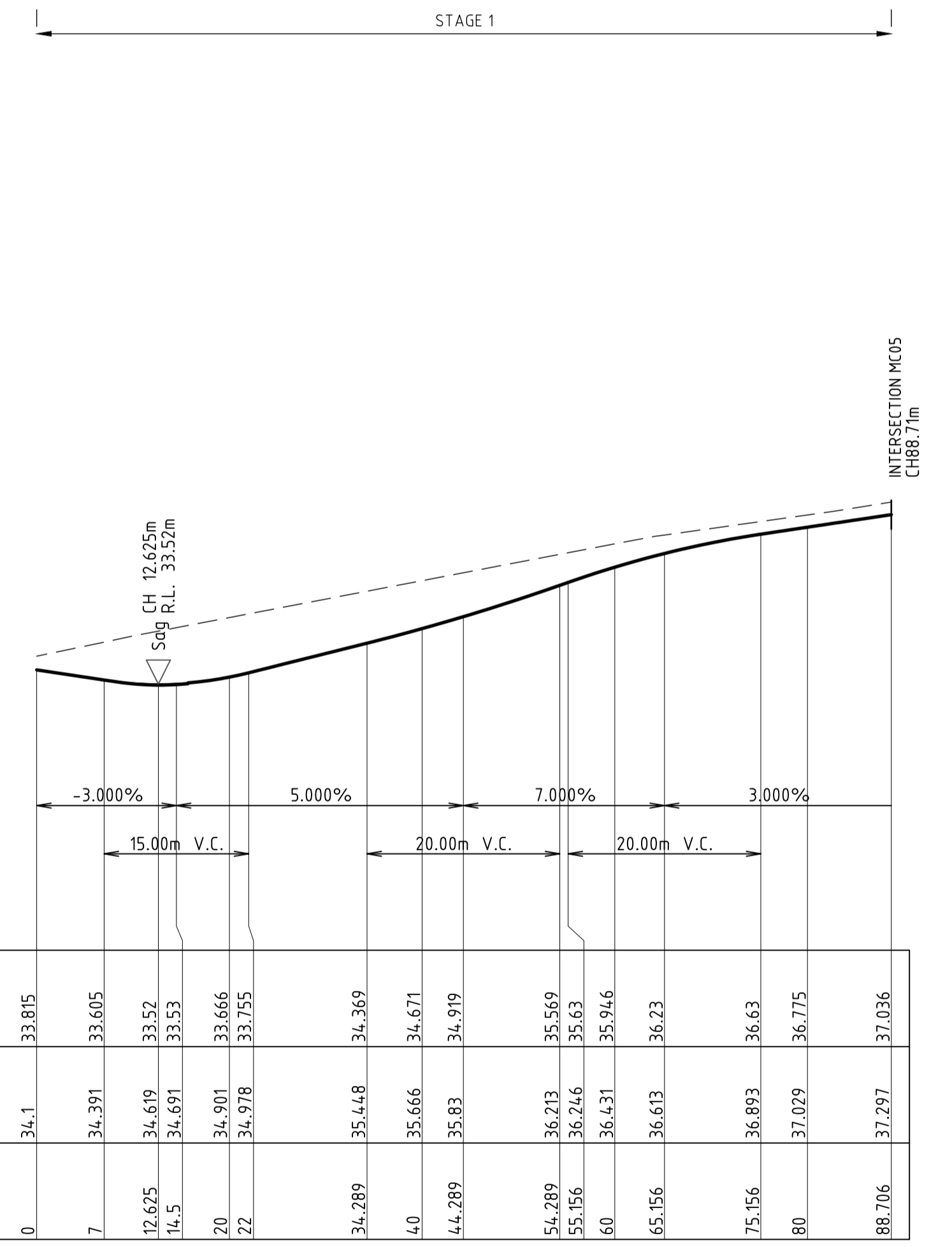
REVISION
C

DRAWING SHEET SIZE = A1

DRAWN: J. STAUB DESIGNED: A. TURBULL JOB MANAGER: L. MCRAE VERIFIER: L. MCRAE



LONGITUDINAL SECTION ALONG MC16
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



LONGITUDINAL SECTION ALONG MC17
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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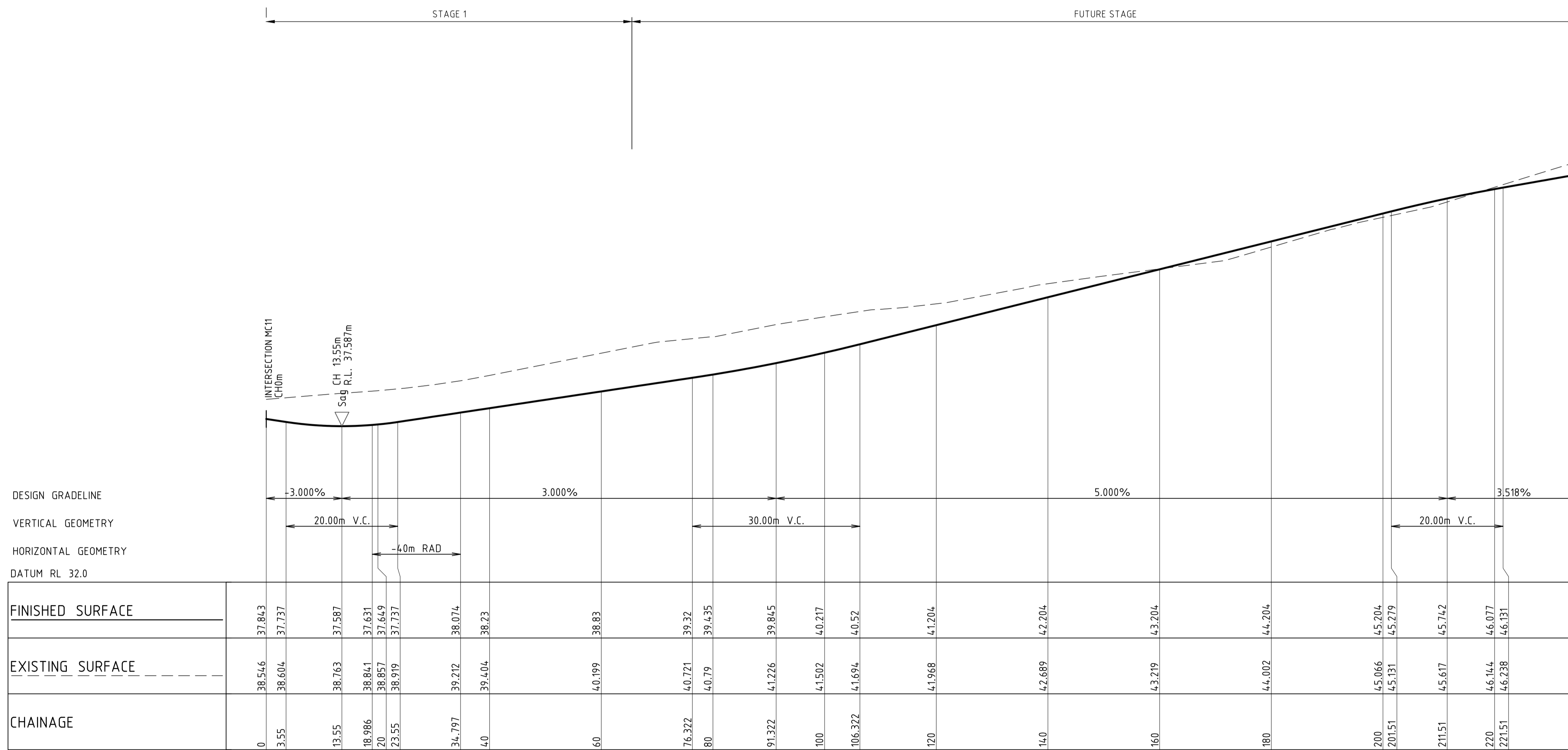
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JOB NUMBER **NL222055-01**
DRAWING NUMBER **MP-C05.57**
REVISION **C**
DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC18
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 28**

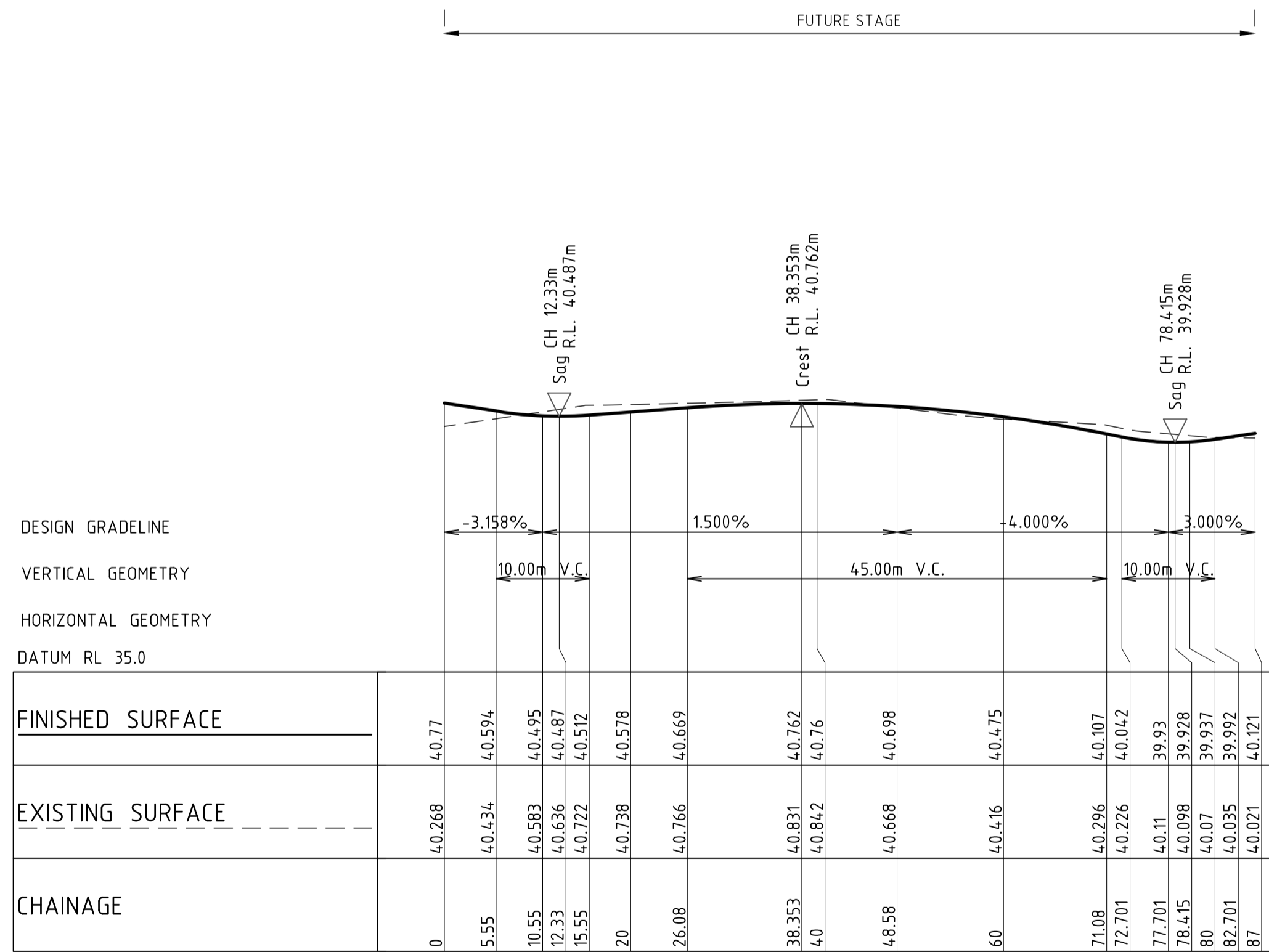
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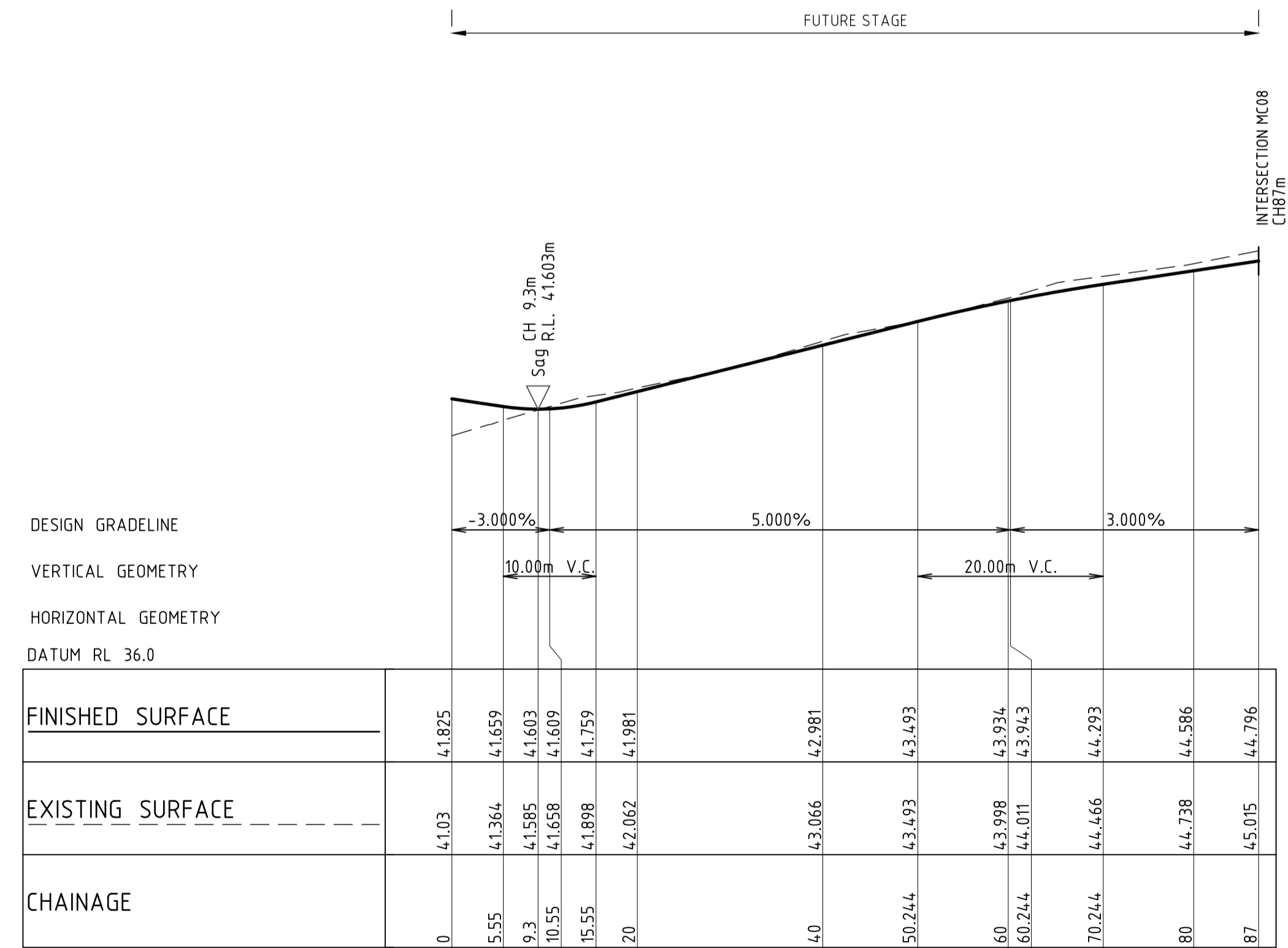
REVISION
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DRAWING SHEET SIZE = A1

DRAWN: J. STAUB DESIGNED: A. TURBULL JOB MANAGER: L. MCRAE VERIFIER: L. MCRAE



LONGITUDINAL SECTION ALONG MC19
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



LONGITUDINAL SECTION ALONG MC20
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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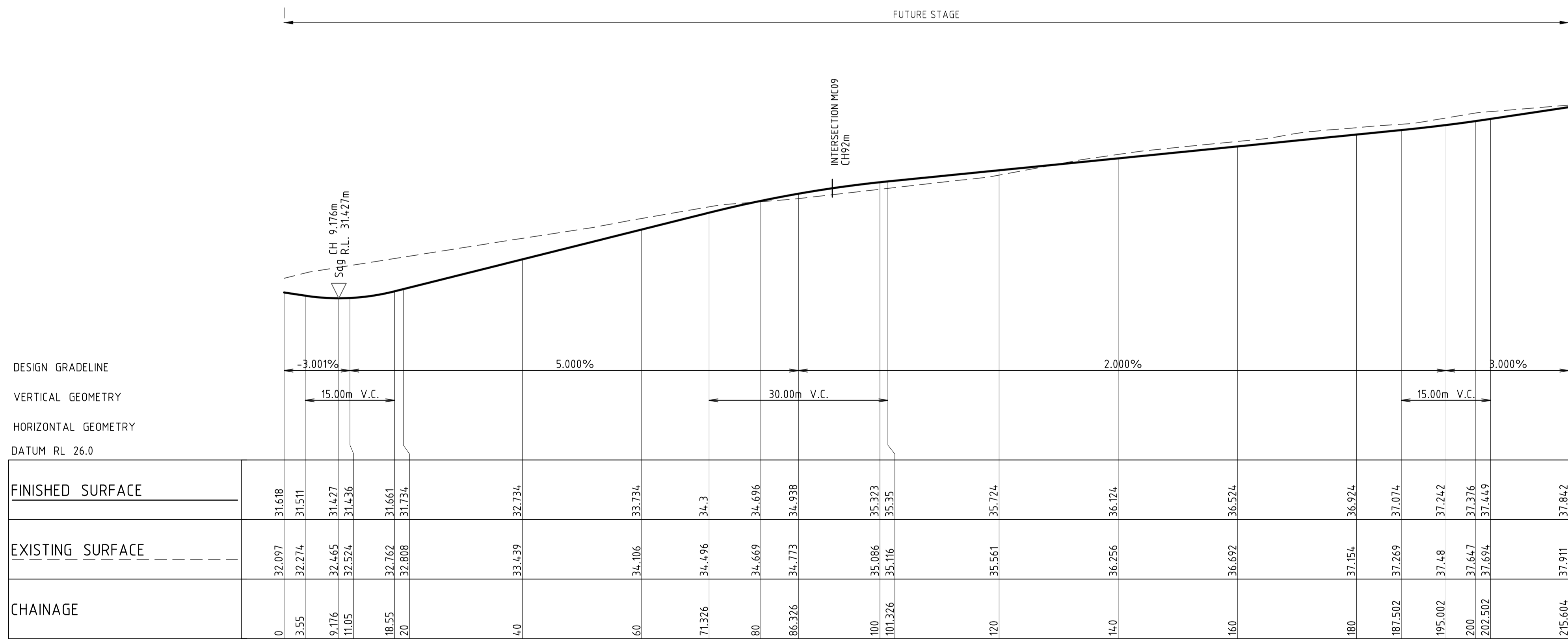
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**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS -
SHEET 29**

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.59	REVISION C
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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC21

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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ROAD LONGITUDINAL SECTIONS - SHEET 30

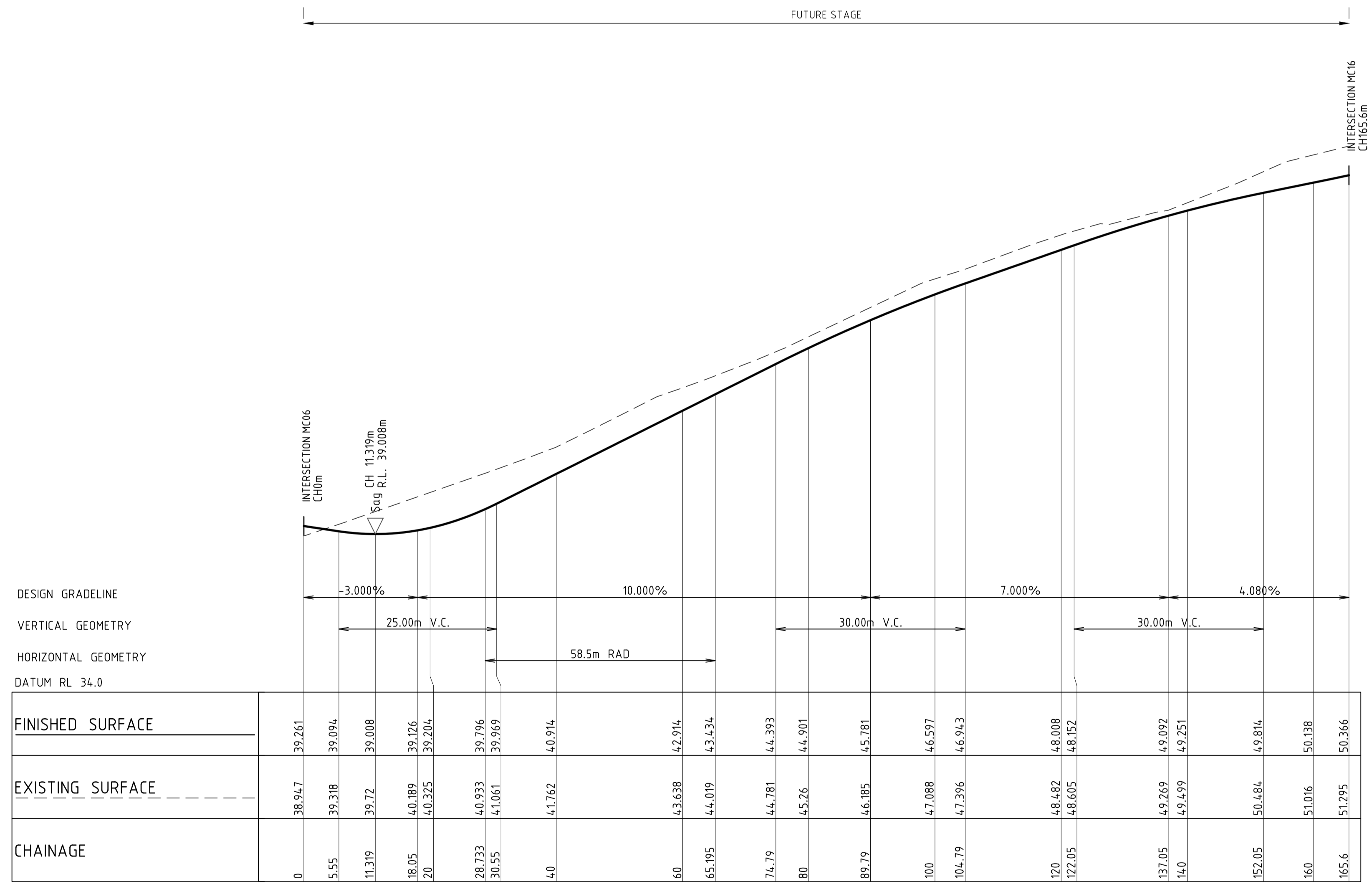
JOB NUMBER
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DRAWING NUMBER
MP-C05.60

REVISION
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DRAWING SHEET SIZE = A1

DRAWN: J. STAUB DESIGNED: A. TURBULL JOB MANAGER: L. MCRAE VERIFIER: L. MCRAE



LONGITUDINAL SECTION ALONG MC22

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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**ROAD LONGITUDINAL SECTIONS -
SHEET 31**

JOB NUMBER

NL222055-01

DRAWING NUMBER

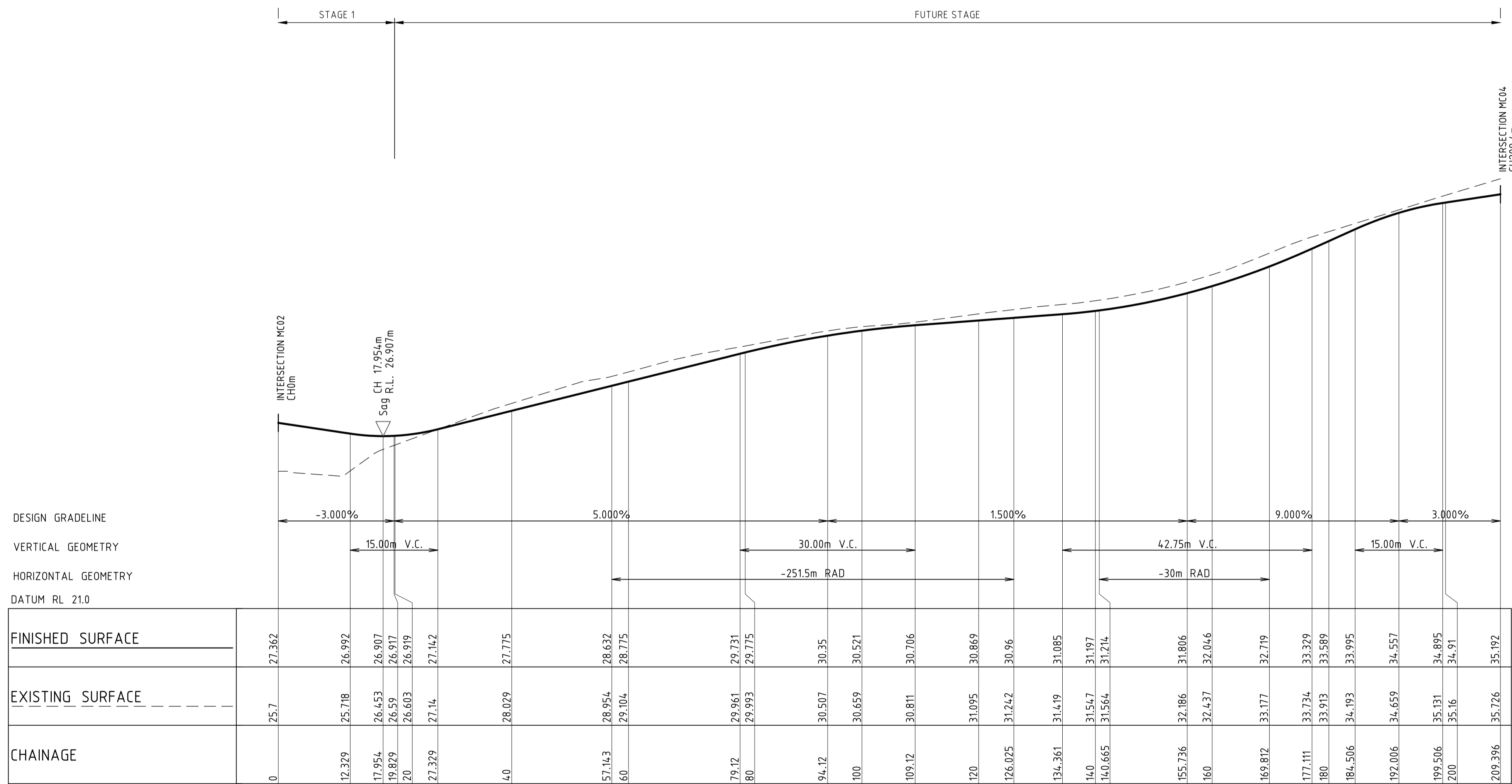
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REVISION

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DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC23

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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SCALE 1:500@A1
SCALE 1:100@A1

NORTHROP
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ABN 81 094 433 100

PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS -
SHEET 32

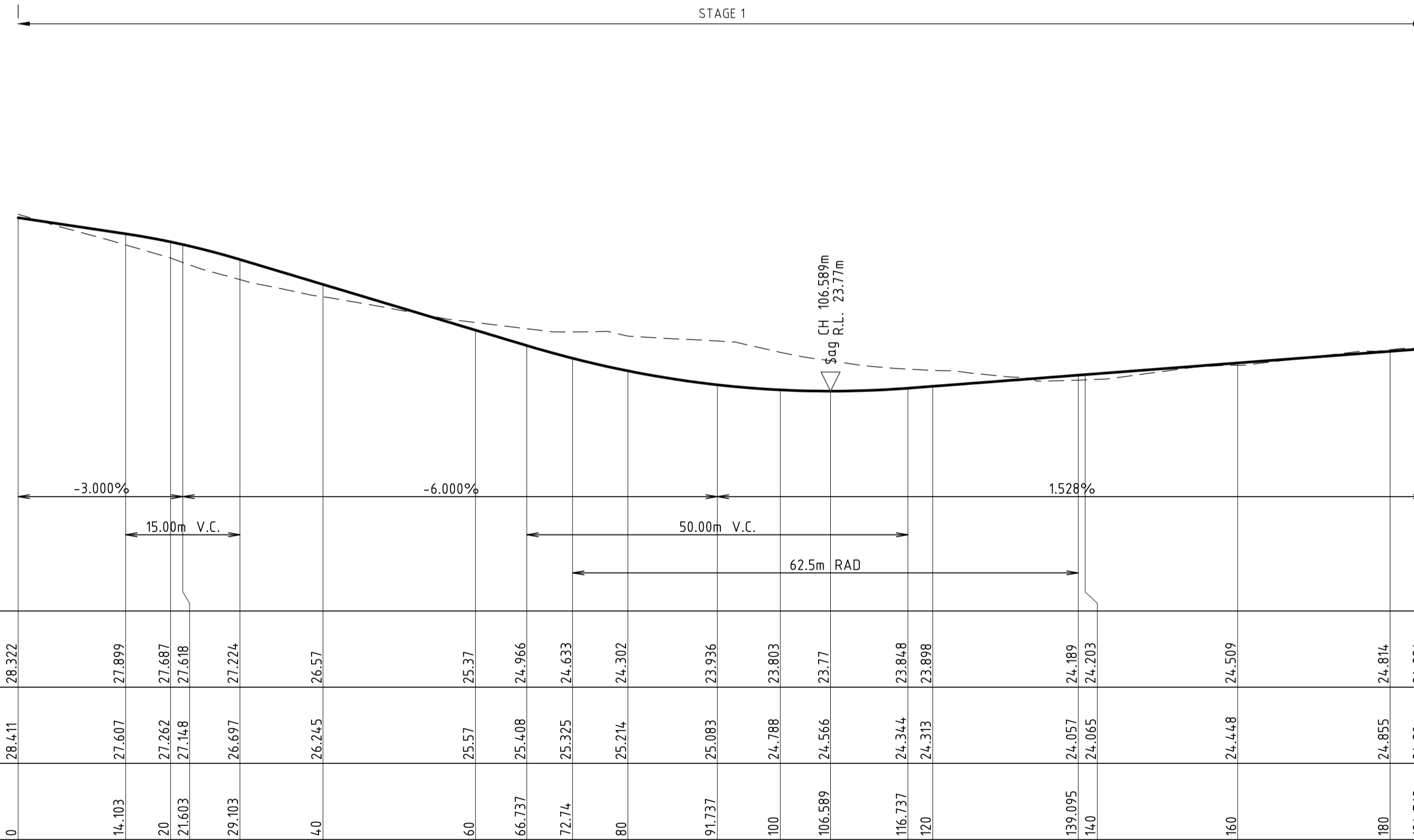
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.62

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC24
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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 SCALE 1:500@A1
 SCALE 1:100@A1

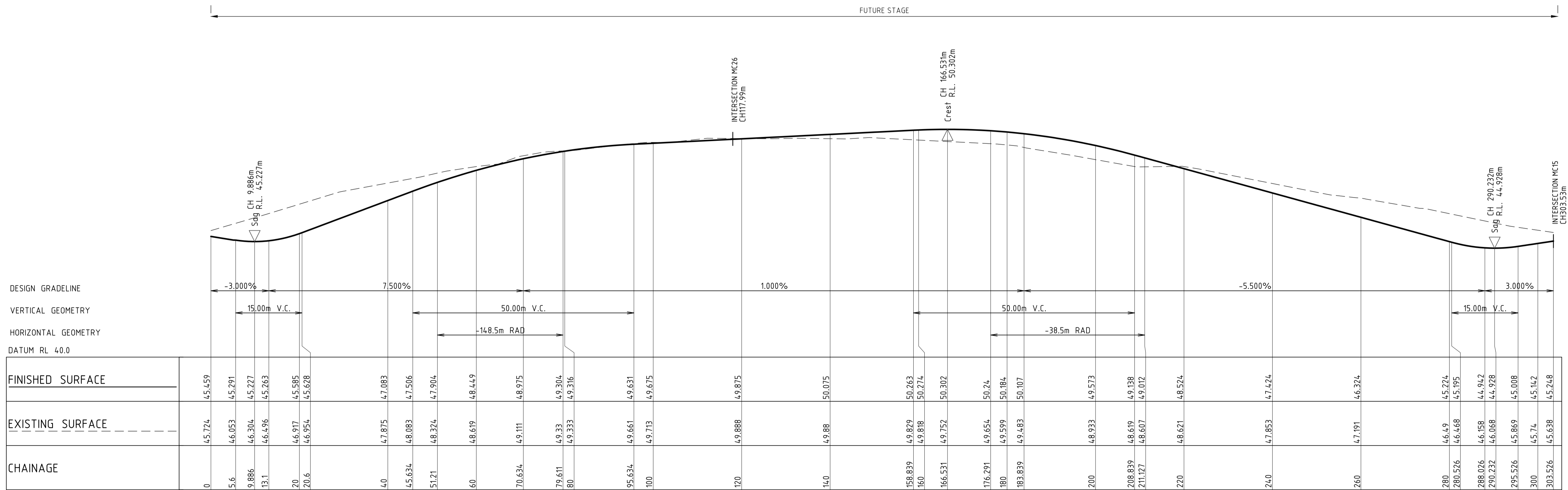
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 ABN 81 094 433 100

PROJECT
**PROPOSED SUBDIVISION
 559 ANAMBAH ROAD
 GOSFORTH NSW 2320**
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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS - SHEET 33

JOB NUMBER NL222055-01	
DRAWING NUMBER MP-C05.63	REVISION C
DRAWING SHEET SIZE = A1	

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



LONGITUDINAL SECTION ALONG MC25
 HORIZONTAL SCALE 1:500@A1
 VERTICAL SCALE 1:100@A1



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A	DRAFT ISSUE	JS		AK	09.08.24
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SCALE 1:500@A1
 SCALE 1:100@A1

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PROJECT
**PROPOSED SUBDIVISION
 559 ANAMBAH ROAD
 GOSFORTH NSW 2320**
 MASTERPLANNING DA

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
 ROAD LONGITUDINAL SECTIONS -
 SHEET 34**

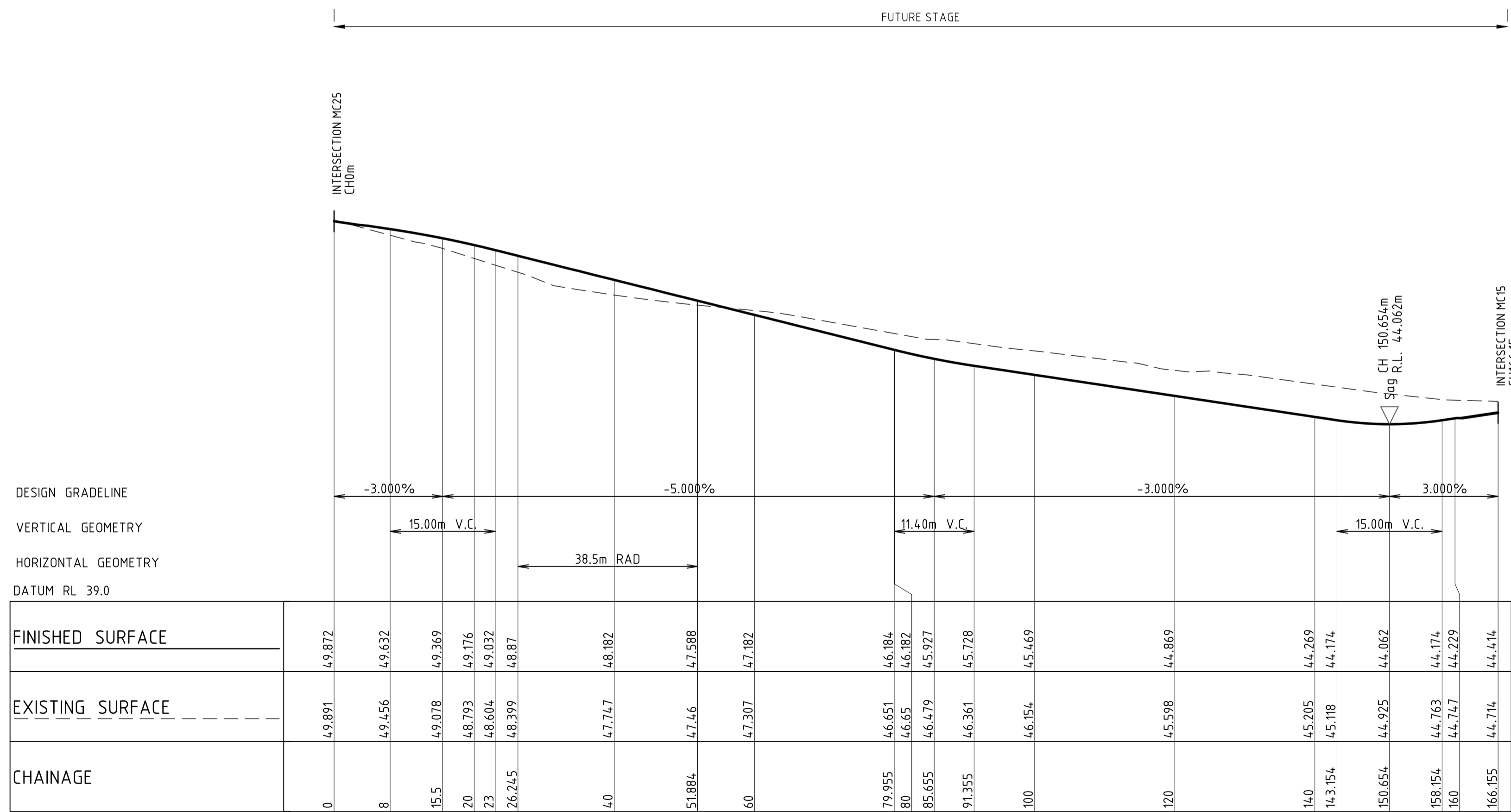
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C05.64

REVISION
C

DRAWING SHEET SIZE = A1

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



LONGITUDINAL SECTION ALONG MC26
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1



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A	DRAFT ISSUE	JS		AK	09.08.24
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C	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24

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COMMUNITIES

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COUNCIL
maitland
city council

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SCALE 1:500@A1
SCALE 1:100@A1

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PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

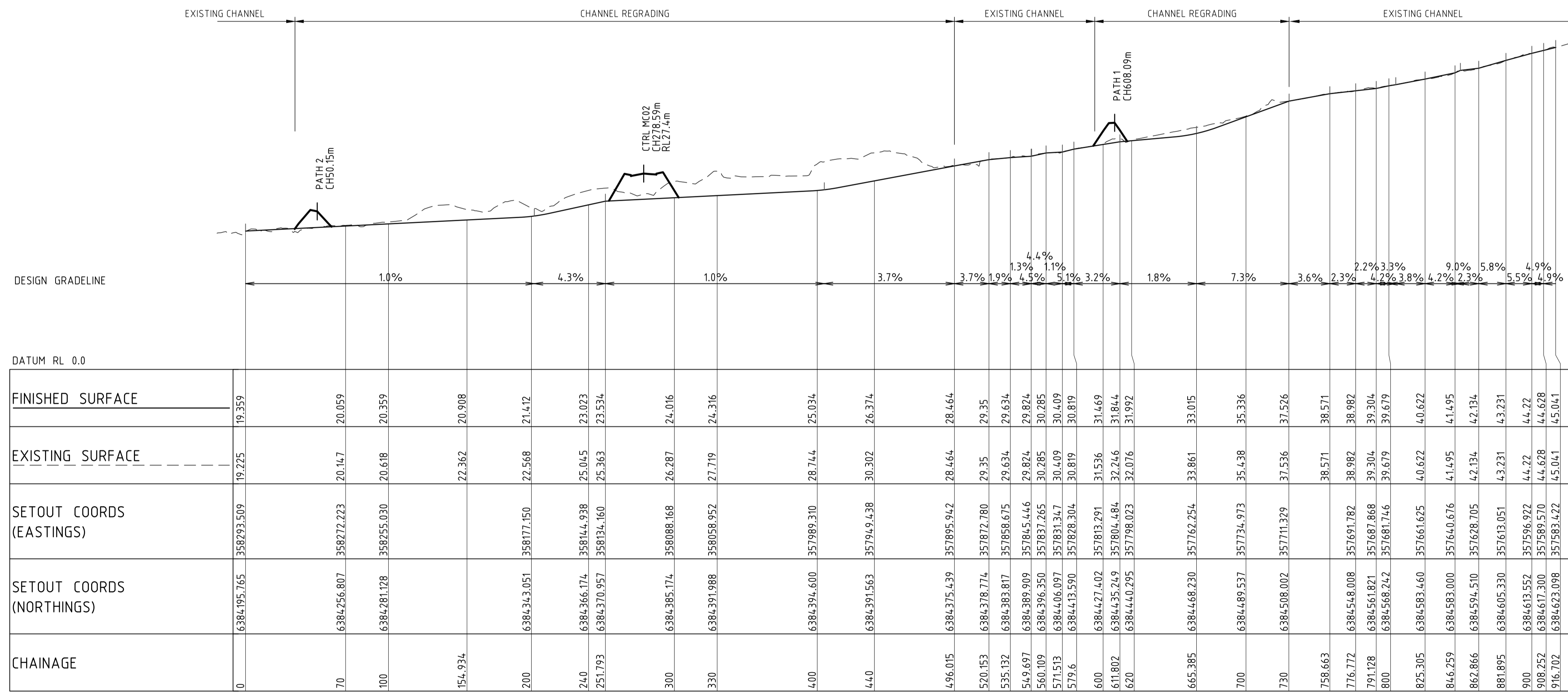
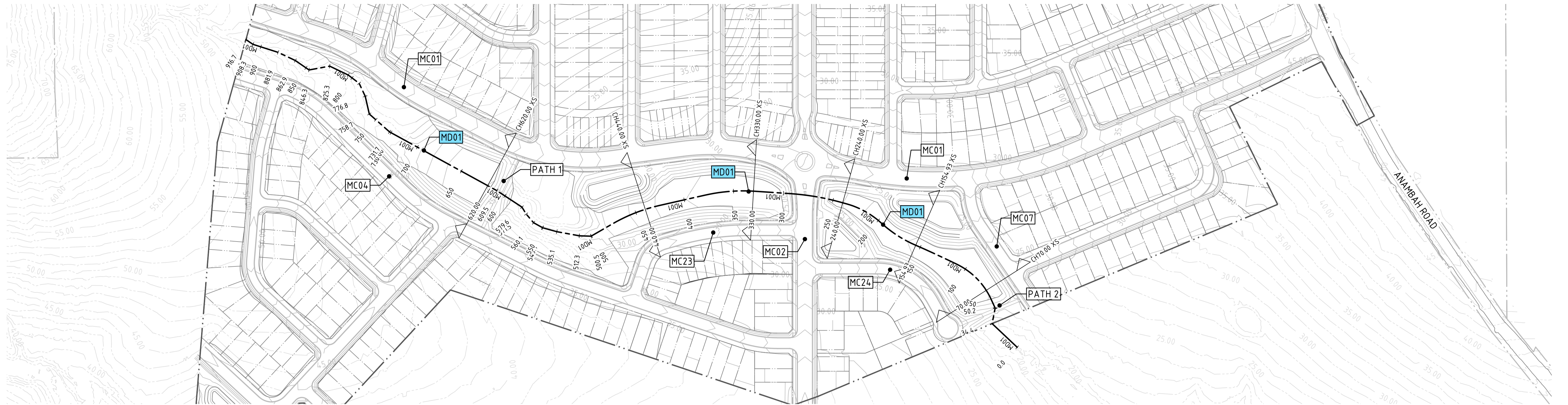
DRAWING TITLE
CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS -
SHEET 35

JOB NUMBER
NL222055-01

DRAWING NUMBER MP-C05.65	REVISION C
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DRAWING SHEET SIZE = A1



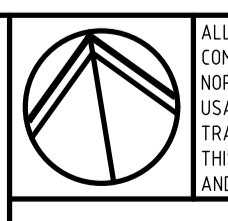
LONGITUDINAL SECTION ALONG MD01

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:400@A1



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A	DRAFT ISSUE	JS		AK	06.08.24
B	DRAFT ISSUE	JS		AK	09.08.24
C	DRAFT ISSUE	JS		AK	15.08.24
D	ISSUED FOR APPROVAL	JS	LM	AK	22.08.24
E	REISSUED FOR APPROVAL	JS	LM	AK	28.08.24



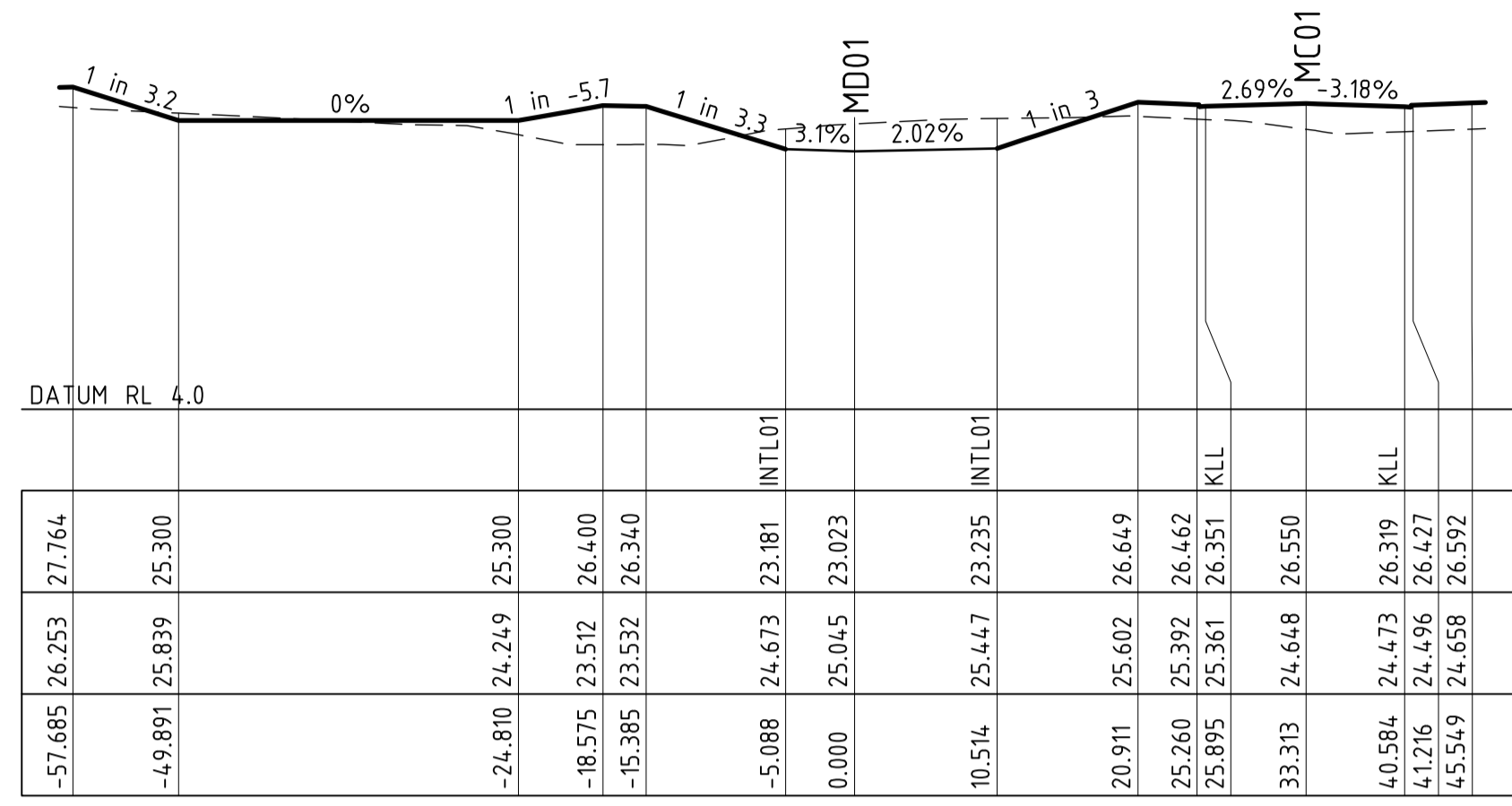
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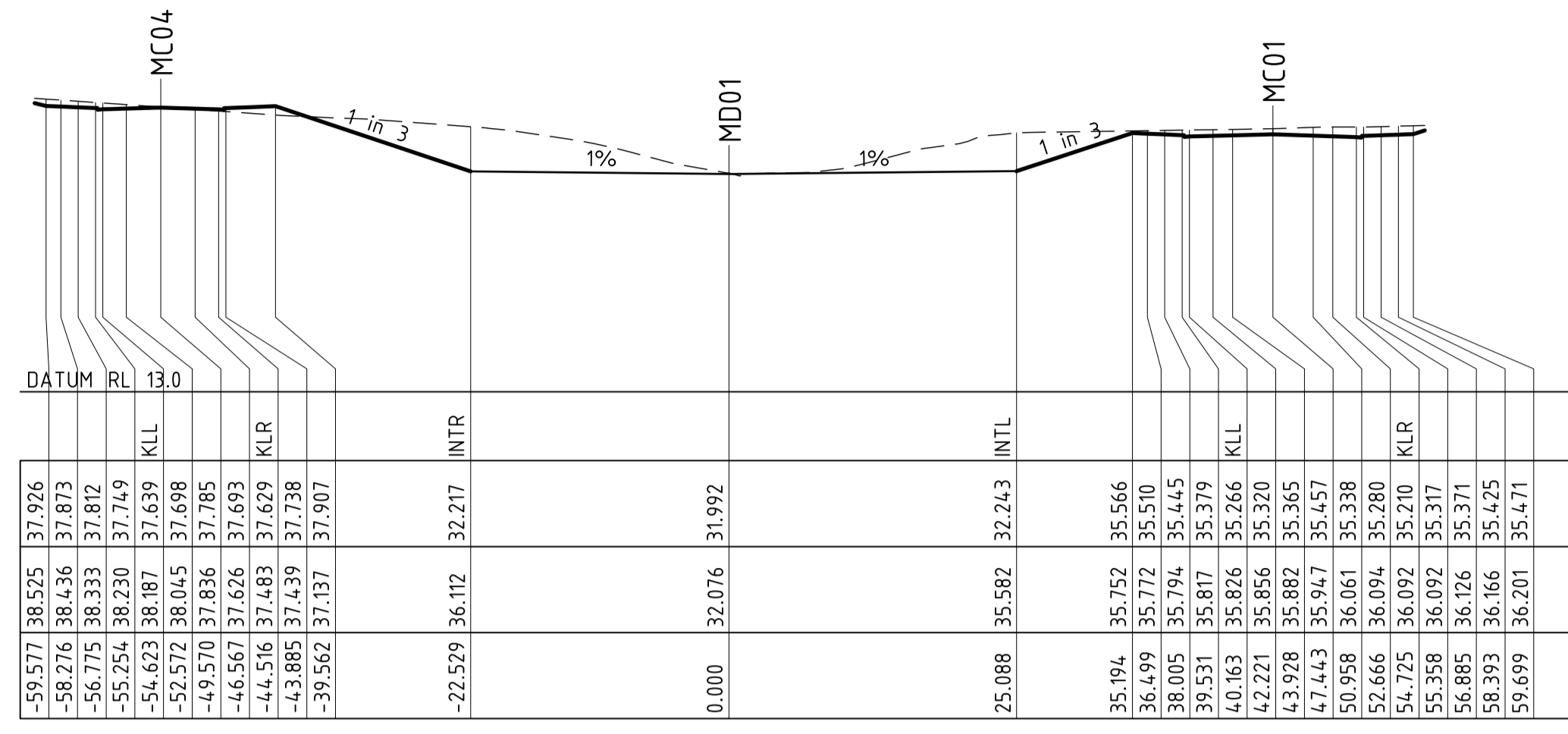
PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
**CREEK PLAN AND LONGITUDINAL
SECTION**

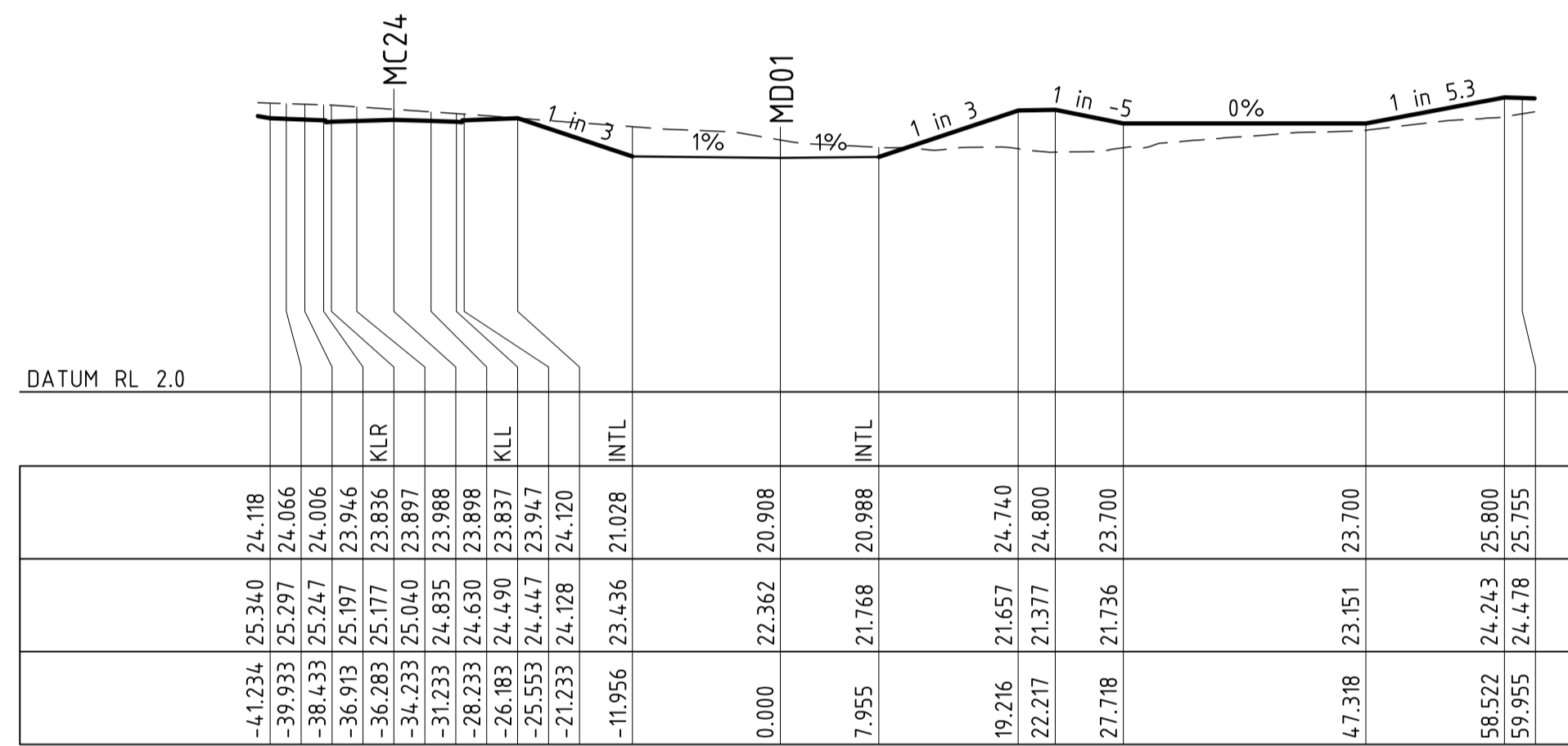
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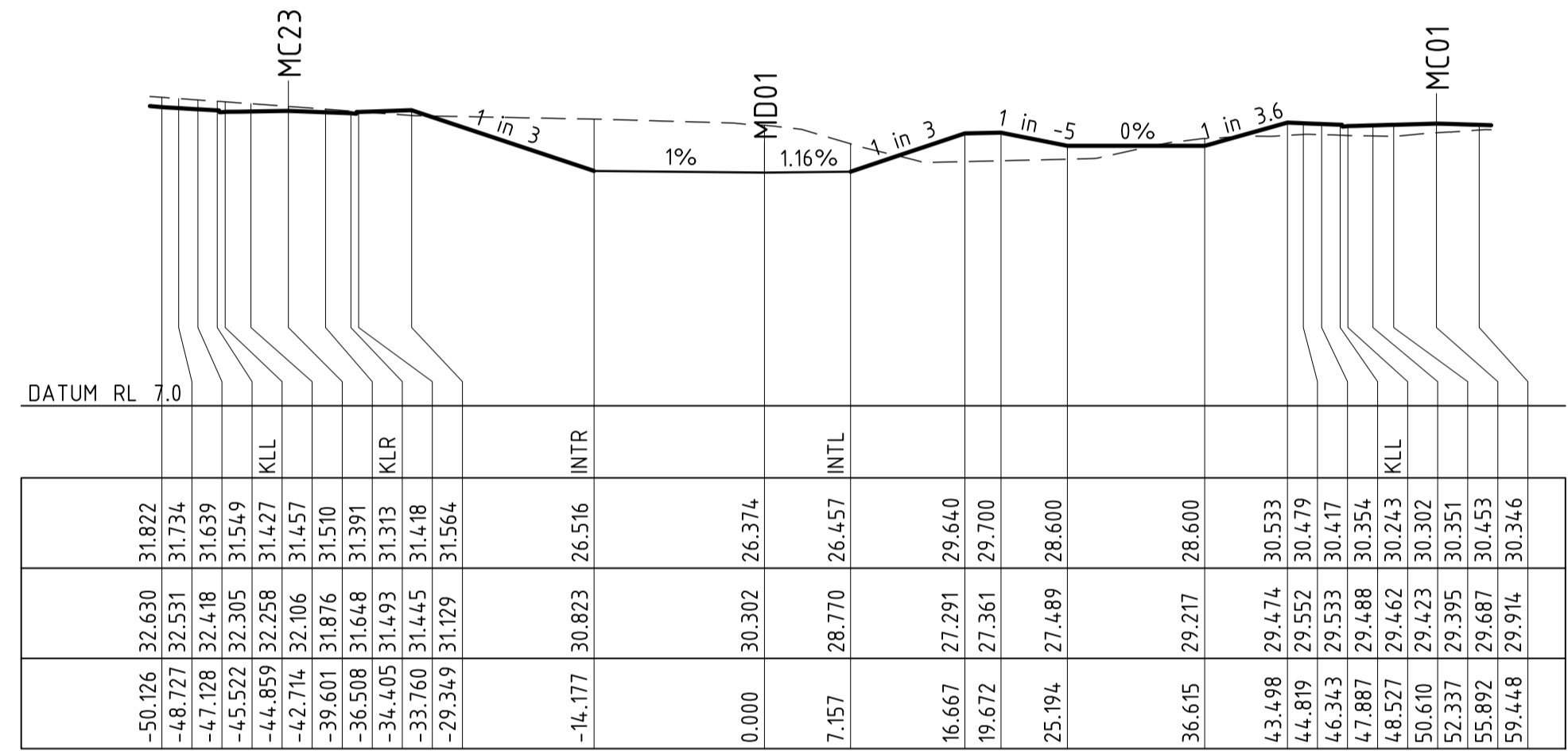
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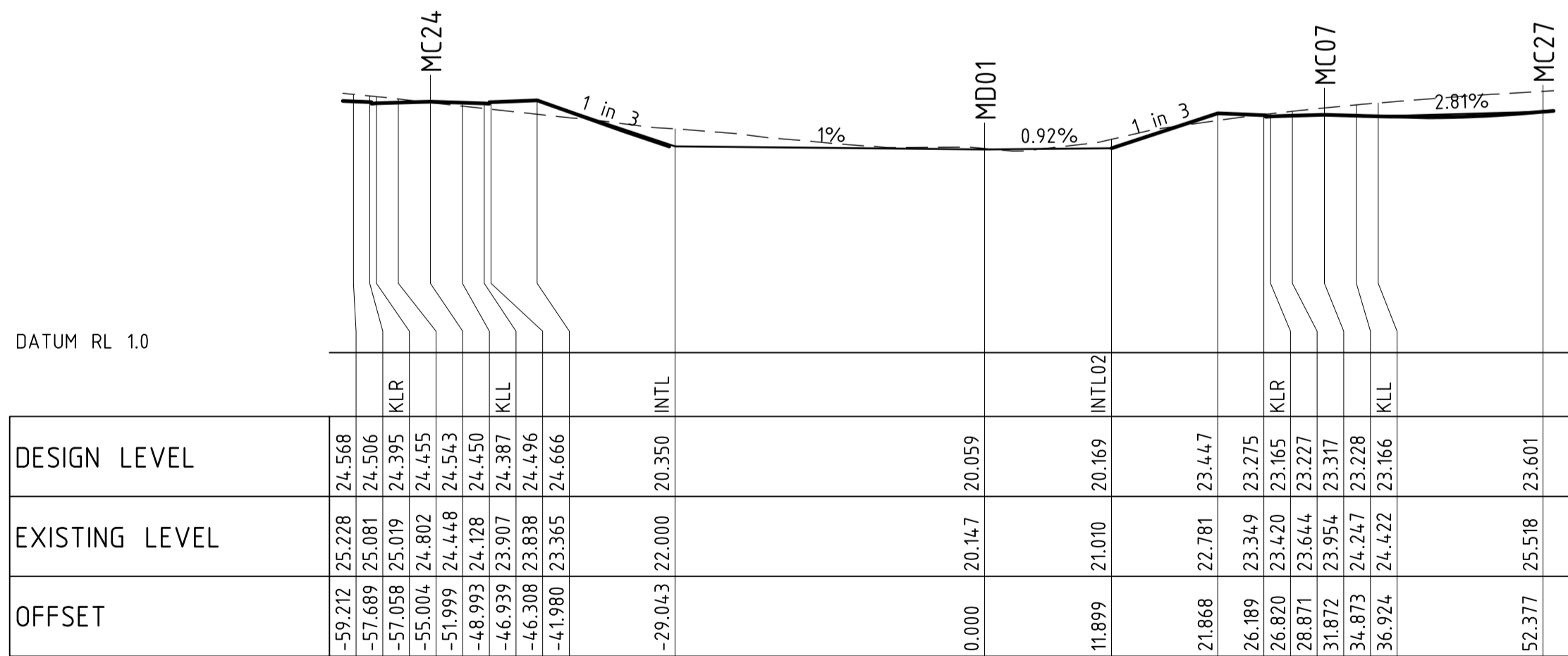
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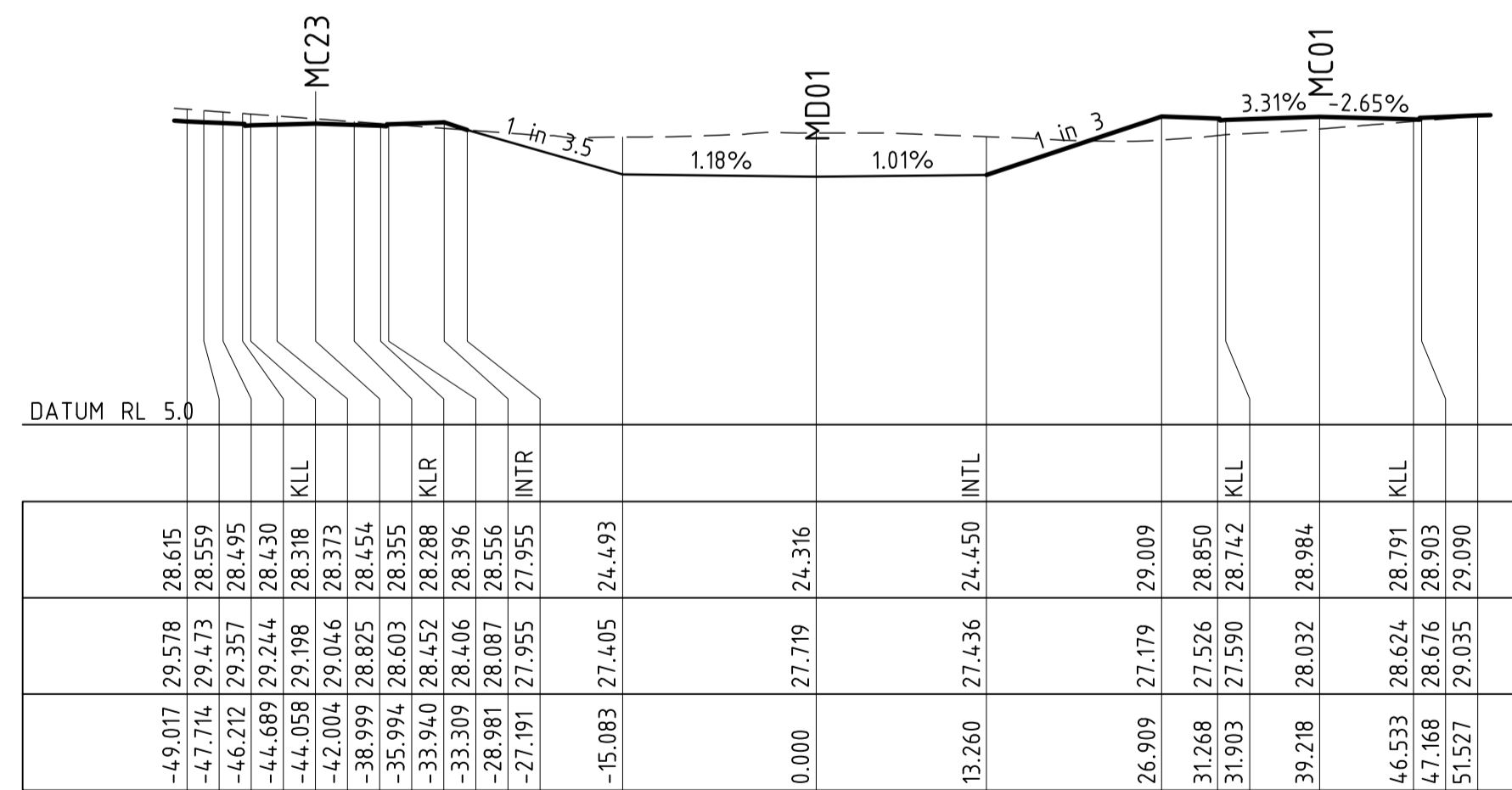
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CHAINAGE 440.000



CHAINAGE 70.000



CHAINAGE 330.000

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-55.058	25.019	24.395
-51.004	24.802	24.455
-51.999	24.648	24.543
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-46.308	23.838	24.476
-41.980	23.365	24.666
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0.000	20.147	20.059
11.899	21.010	20.169
21.868	22.781	23.447
26.189	23.349	23.275
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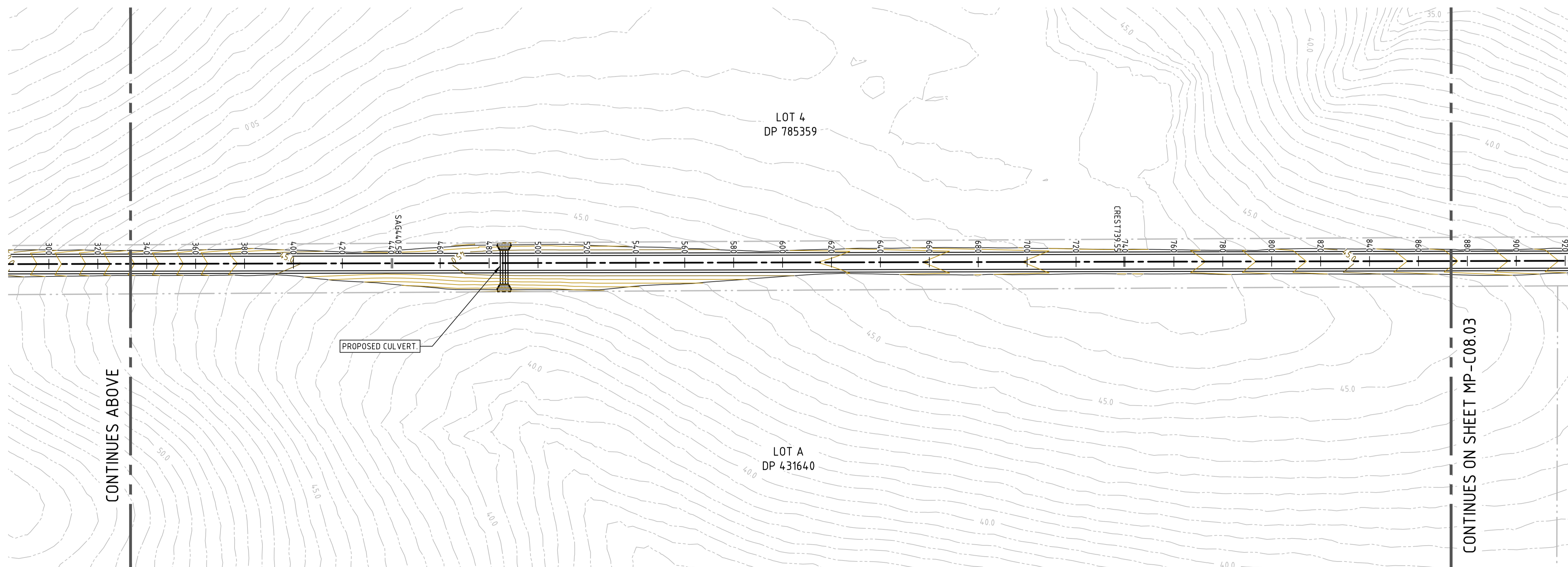
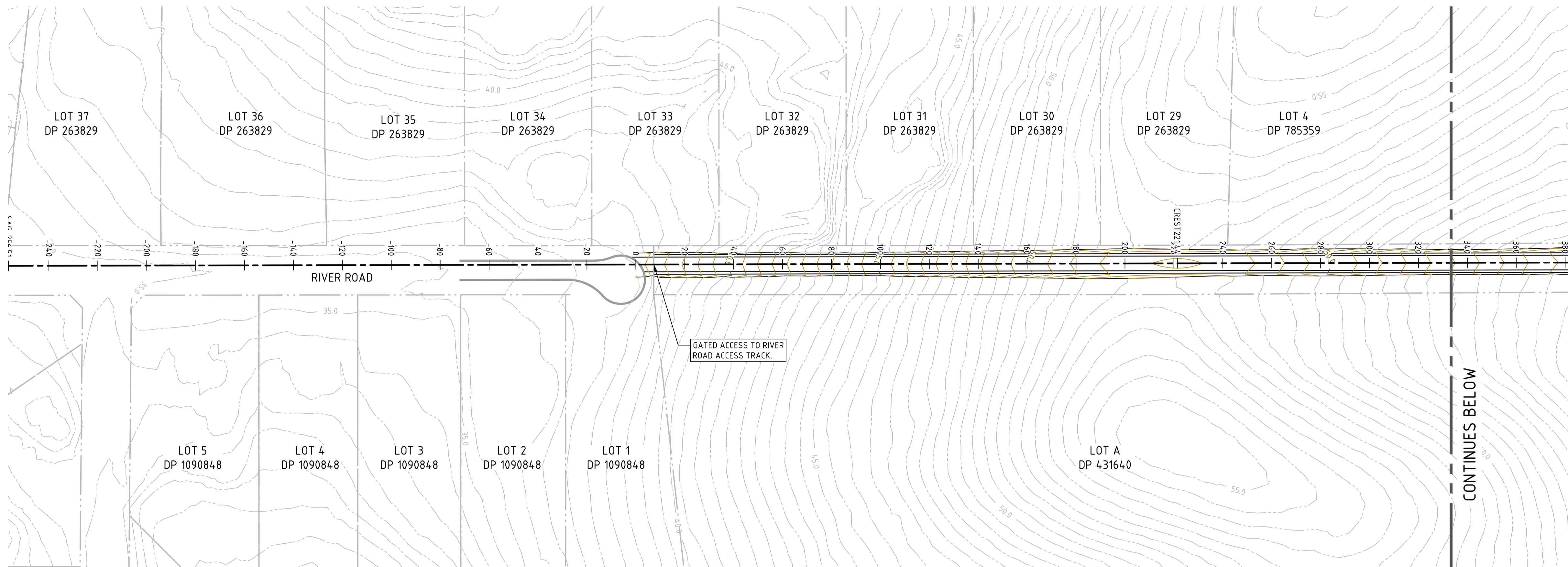
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PROJECT
**PROPOSED SUBDIVISION
 559 ANAMBAH ROAD
 GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CREEK CROSS SECTIONS

JOB NUMBER
NL222055-01
 DRAWING NUMBER
MP-C06.11
 REVISION
D
 DRAWING SHEET SIZE = A1



DRAWN: J STAUB DESIGNED: A TURBULL JOB MANAGER: L MCRAE VERIFIER: L MCRAE

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PROJECT

**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

**CONCEPT CIVIL WORKS PLAN
RIVER ROAD - SHEET 1**

JOB NUMBER

NL222055-01

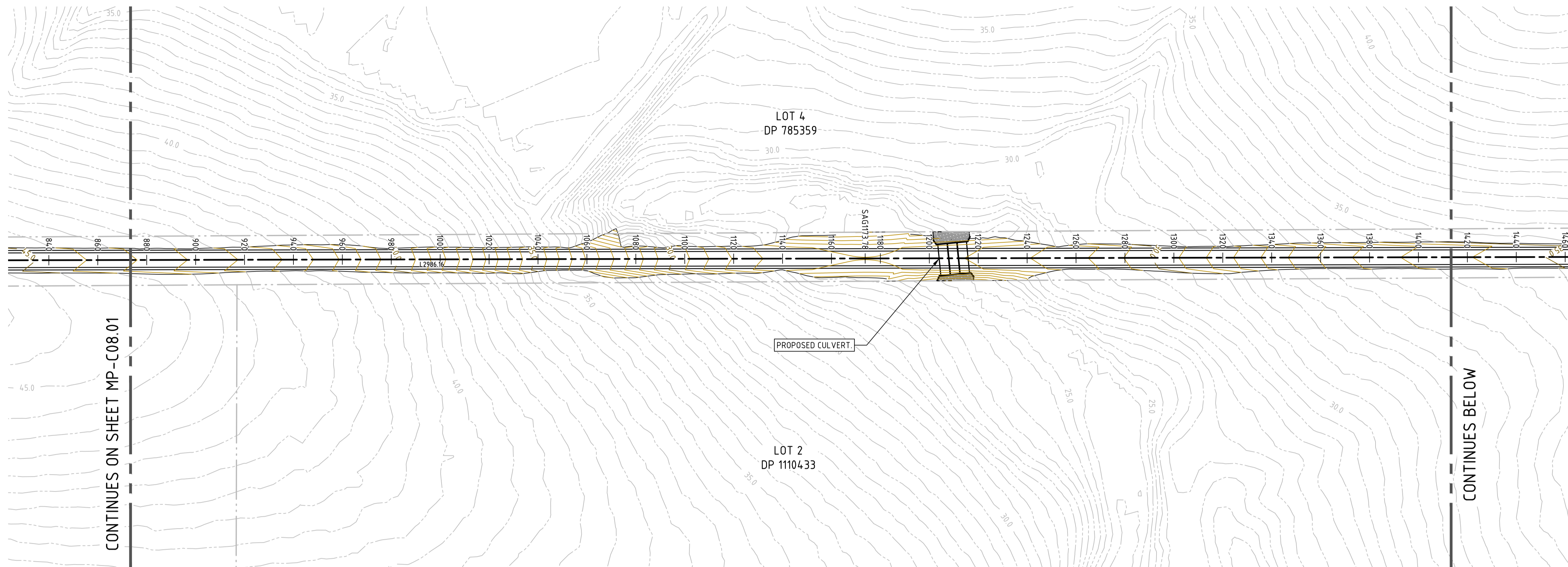
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MP-C08.01

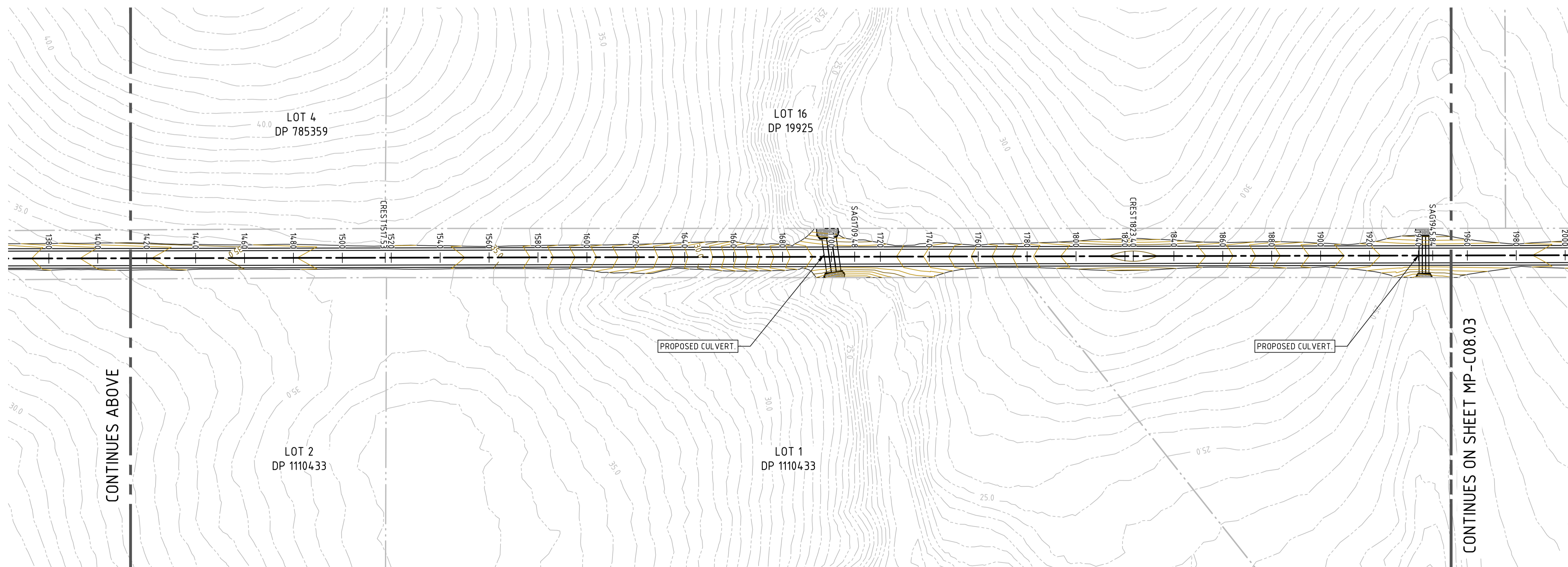
REVISION

C

DRAWING SHEET SIZE = A1



LEGEND	
	SITE BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	PROPOSED STORMWATER PIPE
	PROPOSED STORMWATER OUTLET WITH SCOUR PROTECTION
	DESIGN CONTOURS (0.5m INTERVALS)
	EXISTING CONTOURS (0.5m INTERVALS)



DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



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COUNCIL

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ABN 81 094 433 100

PROJECT

**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

**CONCEPT CIVIL WORKS PLAN
RIVER ROAD - SHEET 2**

JOB NUMBER

NL222055-01

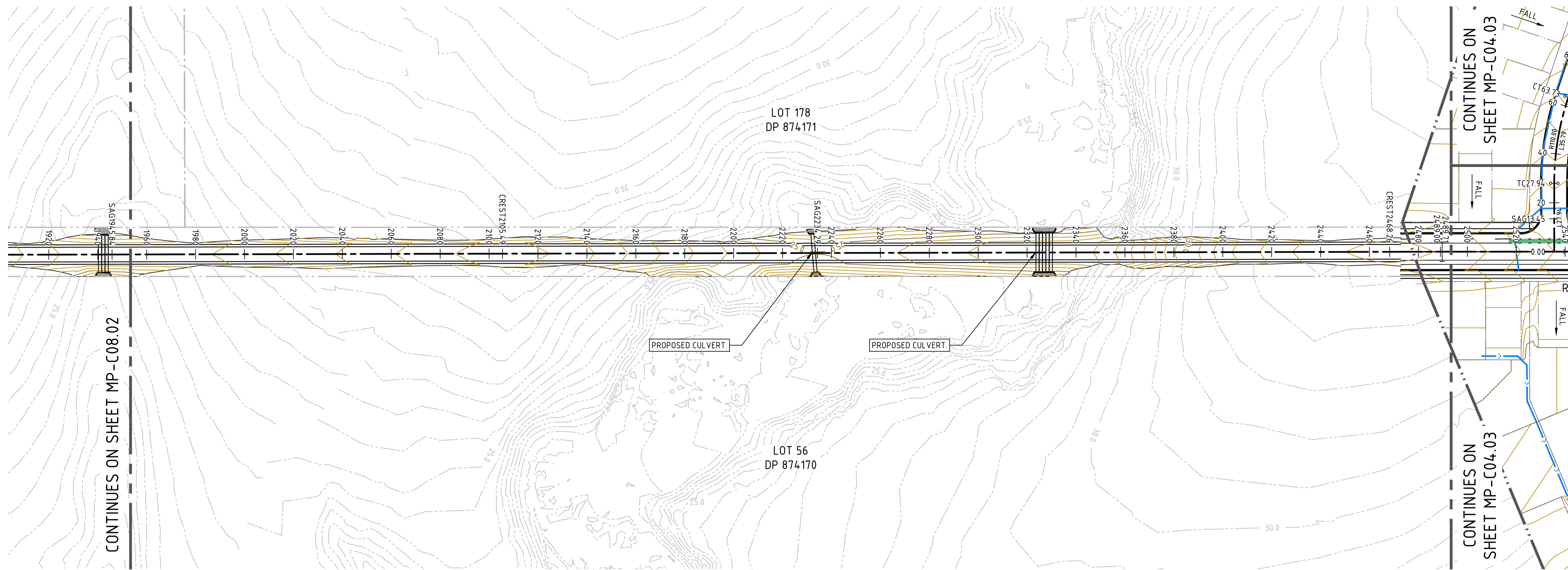
DRAWING NUMBER

MP-C08.02

DRAWING SHEET SIZE = A1

REVISION

C



LEGEND	
	SITE BOUNDARY LINE
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	PROPOSED STORMWATER PIPE
	PROPOSED STORMWATER OUTLET WITH SCOUR PROTECTION
	DESIGN CONTOURS (0.5m INTERVALS)
	EXISTING CONTOURS (0.5m INTERVALS)

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



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SCALE 1:1000 @ A1

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PROJECT

**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

MASTERPLANNING DA

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

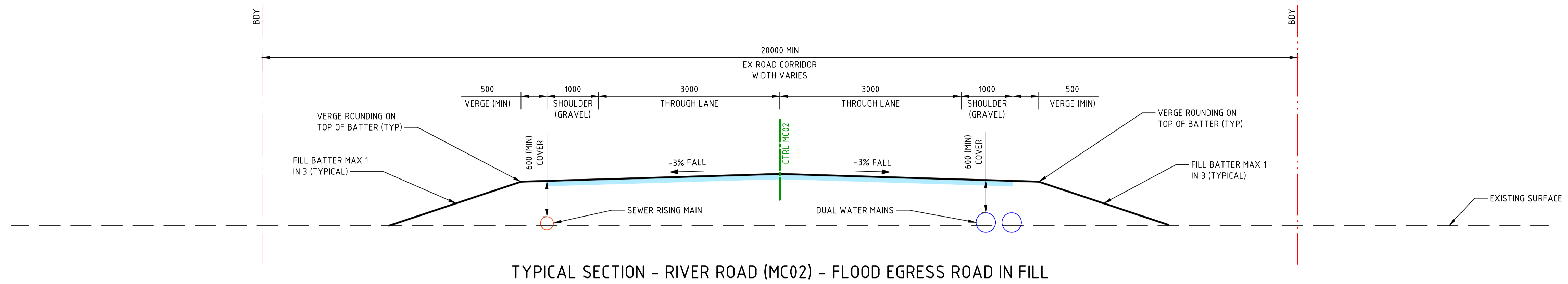
**CONCEPT CIVIL WORKS PLAN
RIVER ROAD - SHEET 3**

JOB NUMBER

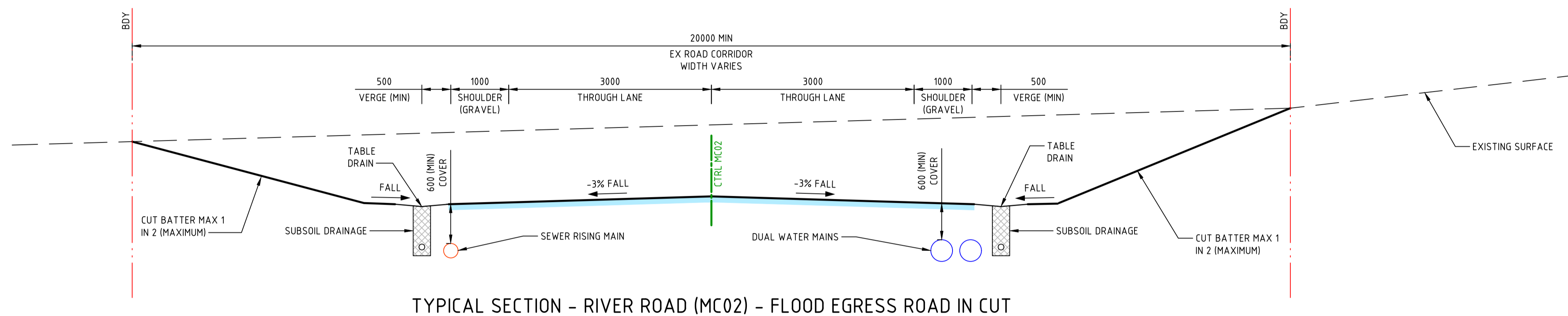
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DRAWING NUMBER	REVISION
MP-C08.03	C

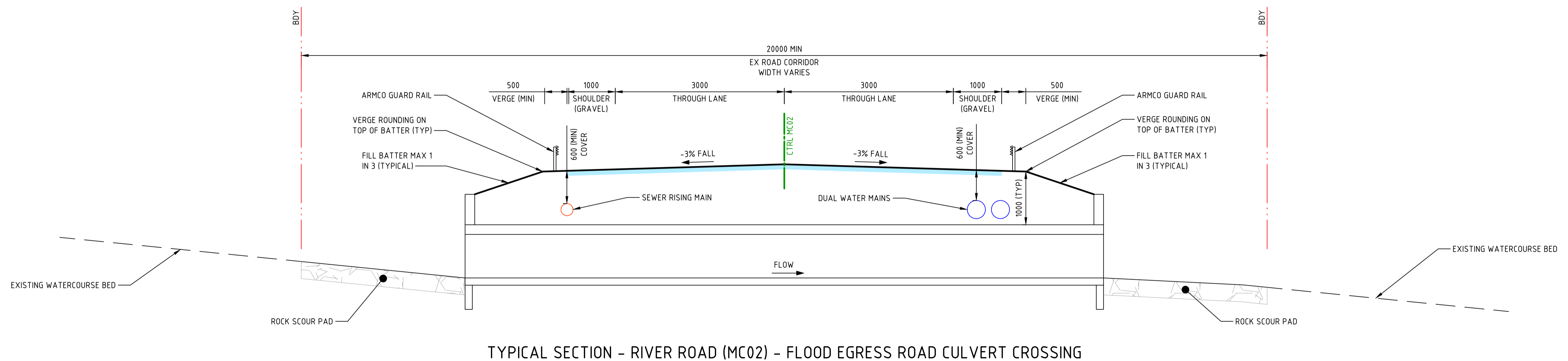
DRAWING SHEET SIZE = A1



TYPICAL SECTION - RIVER ROAD (MC02) - FLOOD EGRESS ROAD IN FILL



TYPICAL SECTION - RIVER ROAD (MC02) - FLOOD EGRESS ROAD IN CUT



TYPICAL SECTION - RIVER ROAD (MC02) - FLOOD EGRESS ROAD CULVERT CROSSING

DRAWN: J.STAUB DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE



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A	DRAFT ISSUE	JS		AK	15.08.24
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**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**

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DRAWING TITLE

CIVIL ENGINEERING PACKAGE

**ROAD TYPICAL SECTIONS
RIVER ROAD**

JOB NUMBER

NL222055-01

DRAWING NUMBER

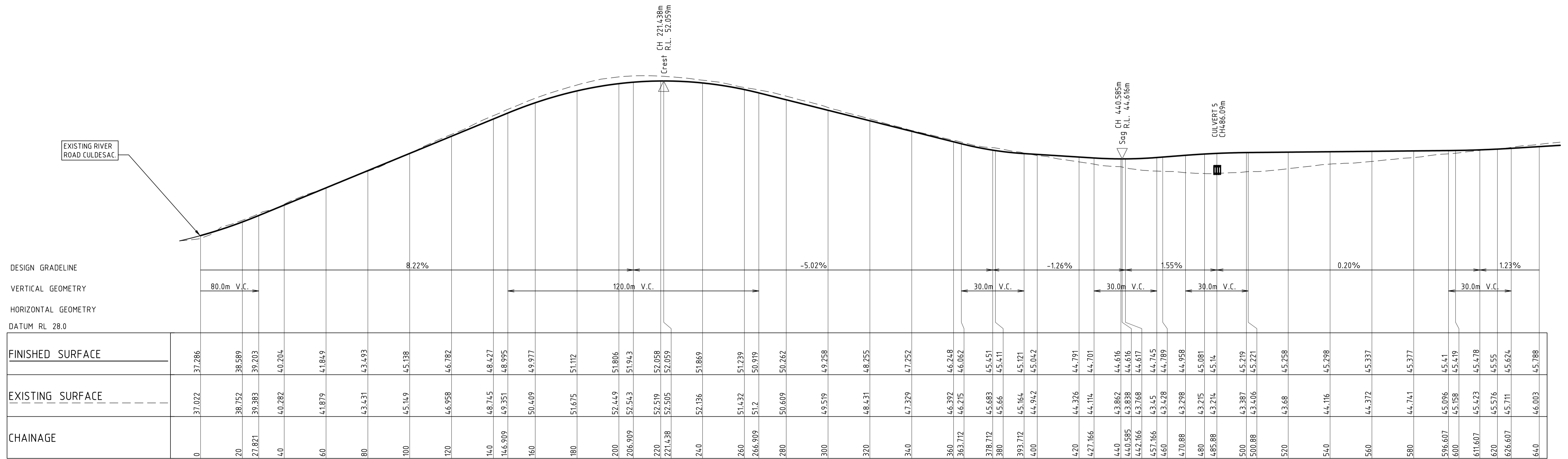
MP-C08.21

REVISION

B

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC02

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:200@A1

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	DRAFT ISSUE	JS		AK	15.08.24
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C	REISSUED FOR APPROVAL	JS	LM	AK	28.08.24

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COMMUNITIES

COUNCIL
maitland
city council

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SCALE 1:1000 @ A1
SCALE 1:200 @ A1

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PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
RIVER ROAD - SHEET 1**

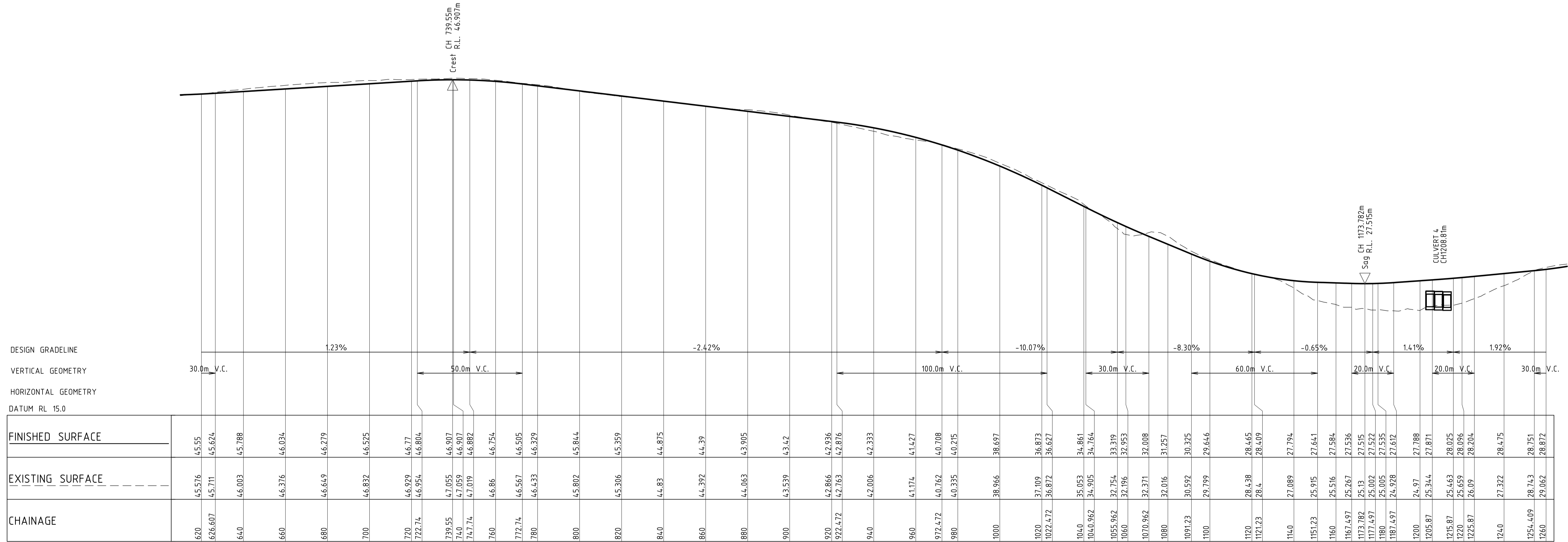
JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C08.31

REVISION
C

DRAWING SHEET SIZE = A1

DESIGNED: A.TURBULL JOB MANAGER: L.MCRAE VERIFIER: L.MCRAE
DRAWN: J.STAUB



LONGITUDINAL SECTION ALONG MC02

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:200@A1

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	DRAFT ISSUE	JS		AK	15.08.24
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COMMUNITIES

COUNCIL
maitland
city council

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SCALE 1:200@A1

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PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**
MASTERPLANNING DA

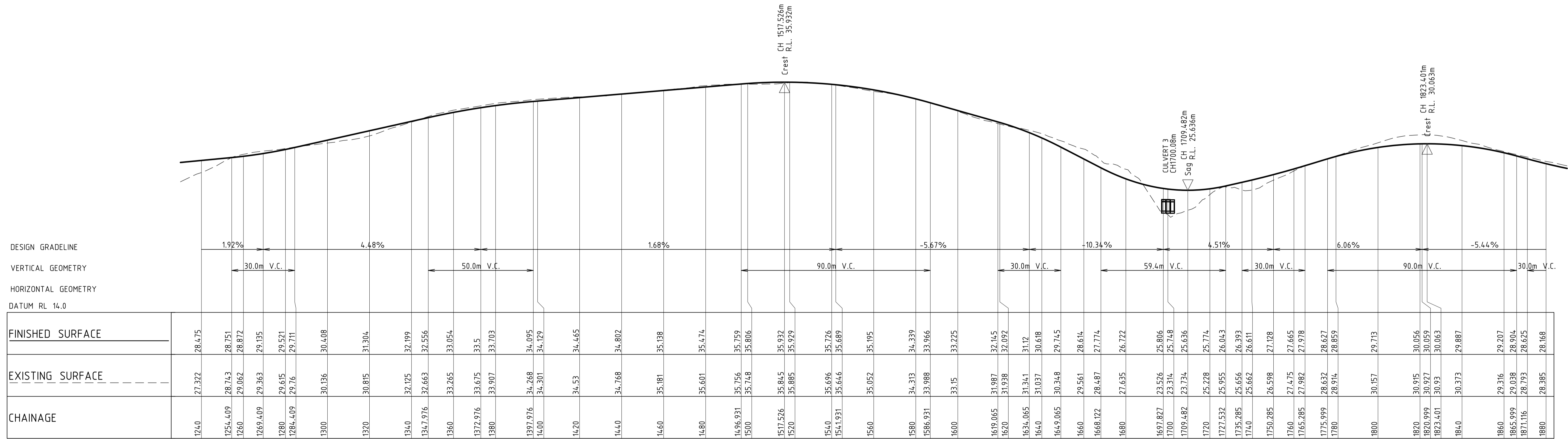
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**ROAD LONGITUDINAL SECTIONS
RIVER ROAD - SHEET 2**

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NORTHROP
Newcastle
Level 1, 215 Pacific Hwy, Charlestown NSW 2290
Ph (02) 4943 1777 Email newcastle@northrop.com.au
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PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**
MASTERPLANNING DA

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ROAD LONGITUDINAL SECTIONS
RIVER ROAD - SHEET 3**

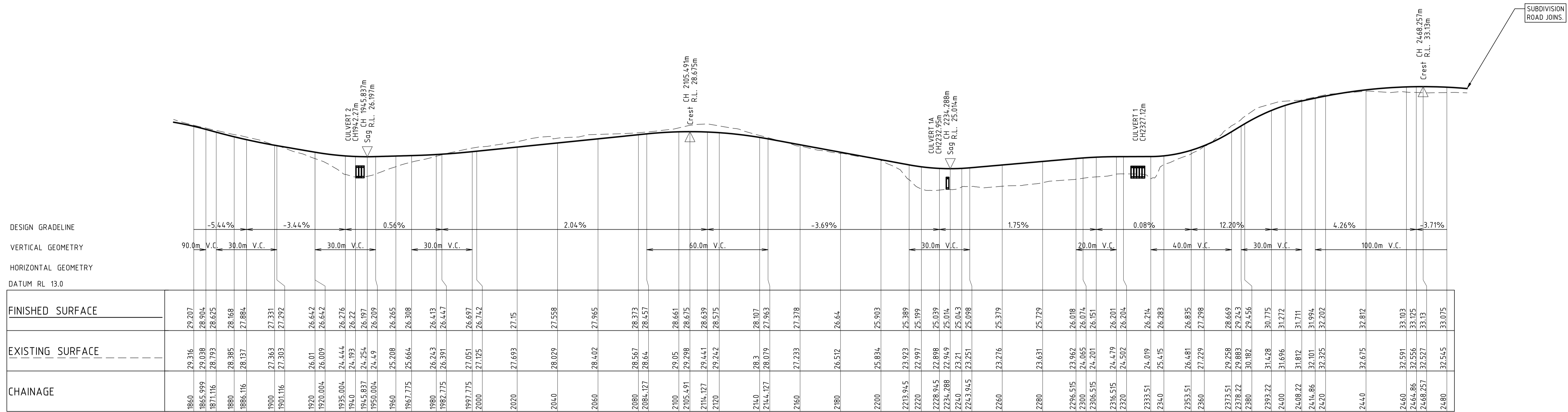
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NORTHROP
Newcastle
Level 1, 215 Pacific Hwy, Charlestown NSW 2290
Ph (02) 4943 1777 Email newcastle@northrop.com.au
ABN 81 094 433 100

PROJECT
**PROPOSED SUBDIVISION
559 ANAMBAH ROAD
GOSFORTH NSW 2320**
MASTERPLANNING DA

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
**ROAD LONGITUDINAL SECTIONS
RIVER ROAD - SHEET 4**

JOB NUMBER
NL222055-01

DRAWING NUMBER
MP-C08.34

REVISION
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Appendix B Maitland Council Waste Minimisation Management Plan

Outline of Proposal

Site Address _____

Applicant Name _____

Applicant Address _____

Building and other structures currently on the site

Brief description of the proposal

The Project is for a Concept Development Application (CDA) seeking concept approval for the staged development of the concept master plan, and for which detailed proposals for the Site or for separate parts of the site are to be subject of subsequent Development Applications (DAs), apart from stage 1.

The masterplan creates a new urban subdivision within the Anambah Urban Release Area accommodating a mix of housing types with approximately 900 residential lots, and incorporates open space, roads, pedestrian networks, utilities and services, intersection upgrades and drainage infrastructure.

The application includes a development application for stage 1, which is made up of approximately 240 lots. This stage includes the subdivision of the land, construction of the lots including roads, services, bulk earth works and dedication of reserves. The application includes an intersection to provide access into the development via Anambah Road, together with an emergency flood access to be constructed via the unformed River Road.

Construction Phase

DESTINATION					
Waste materials on site	Vol (m ³)	Wt (t)	ON SITE	OFF SITE	DISPOSAL
			<i>Specify proposed reuse or on-site recycling methods</i>	<i>Specify contractor and recycling outlet</i>	<i>Specify Contractor and Landfill Site</i>
Excavation Material					
Garden Waste					
Bricks					
Tiles					
Concrete					
Timber – pine, particle board					
Plasterboard					
Metal – copper, aluminium					
Asbestos – cement, roof and wall					
Other – including glass, doors, etc					



Ongoing Operations Phase

Ongoing Operations - Option 1

(applies to the following types of development)

- Single dwellings
- Dual Occupancy and Medium Density Housing – Individual Storage Areas
- Construction of outbuildings, such as garages, carports and sheds
- Dwelling alterations and additions
- Fences and retaining walls
- Swimming Pools
- Water Tanks
- Proposals involving minor construction
- Change of use applications involving minimal construction

Who is going to collect the waste and recycling generated by this development?
(tick applicable)

- Council General Waste Collection (Green bin)
- Council Recycling Collection (Yellow bin)
- Private Contractor Council

Ongoing Operations - Option 2

(applies to all development excluding those categories nominated under Option 1 above)

Describe how you intend to ensure ongoing management of waste on site

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____





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1.1.1.1 Document Distribution

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1.1.1.2 Document Status

Rev No.	Author	Reviewer Name	Approved for Issue Name	Signature	Date
Rev A	Eloise Marshall	Hamish Manzi	Hamish Manzi		26/08/2024
Rev 0	Rachel Gray	Hamish Manzi	Hamish Manzi		29/08/2024



Adelaide

Kaurna Country | 100 Hutt St,
Adelaide, SA 5000
T: 08 8431 7113

Brisbane

Turrbal/Yuggera Country | Level 37,
123 Eagle Street, Brisbane, QLD 4000
T: 07 3211 5350

Bunbury

Wardandi Country | 177 Spencer
Street Bunbury, WA 6230
T: 08 9792 4797

Canberra

Ngunnawal Country | Level 1, The Realm
18 National Circuit Barton, ACT 2600
T: 02 6198 3278

Darwin

Larrakia Country | Suite G1, Level 1,
48-50 Smith Street, Darwin NT 0800
T: 08 8943 0600

Hobart

Muwununa/Nuenon Country | L2, 137
Liverpool Street, Hobart TAS 7000
T: 03 6208 3700

Melbourne

Wurundjeri Country | Level 19,
31 Queen Street, Melbourne VIC 3000
T: 03 9642 0599

Newcastle

Awabakal/Worimi Country | 61 / 63
Parry Street Newcastle West, NSW 2302
T: 02 8245 0300

Perth

Whadjuk Country | Allendale Square,
Level 9, 77 St Georges Terrace, WA 6000
T: 08 9380 3100

Sydney

Gadigal Country | Level 1,
50 Margaret Street, Sydney, NSW 2000
T: 02 8245 0300

Wollongong

Dharawal Country | Suite 1A, 280 - 286
Keira Street, Wollongong, NSW 2500
T: 02 4225 2647