

Project:	Beveridge North West PSP	Office:	Melbourne, Swanston St
Project №:	304200129	Status:	Draft
Client:	Victorian Planning Authority	Prepared by:	Samuel Beckham
Date:	15 September 2023		
Subject:	Western Arterial - Alignment RD-03A Design Report		

1.1 Introduction

The VPA instructed Stantec in July 2023 to prepare concept designs of the two alignments of the Western Arterial Road in the Beveridge North West PSP, being Option 3A and 3B.

The revised 3A alignment will travel “through the saddle” and tie into the existing Wallan South RD-01a design at the PSP boundary. The design seeks to:

- avoid any hillocks/stony rises,
- have an alignment that avoids Kalkallo Creek and any tributaries to the west of Intersection IN-06,
- be designed with an alignment as straight as possible, and
- have minimal impact on the Wallan South PSP.
- enable the Wallan South PSP to tie alignment 3A within Wallan South at intersection IN-13, and
- allow for land take (inclusive of required batters and safety barriers) should option 3B not proceed.

The work has also involved updates to intersections IN-06A and IN-07A.

1.2 Purpose of this memorandum

This memorandum documents the design inputs, parameters, standards and compliance for alignment for RD-03A. The work builds on work completed by Stantec (formerly Cardno) for the VPA as a result of previous feedback from the Department of Transport and Planning (DTP) which sought to investigate options to improve the alignment, safety and greater adherences to Greenfield PSP guidelines.

The detail of the alignment of RD-03B will be provided in a separate memorandum.

Full design plans are located in Appendix A and the costings provided in Appendix B.

1.3 Design inputs, parameters & standards used

Table 1.1 summarises the design inputs for the alignment of 3A. The road alignment maintains compliance to all the design parameters listed below.

Table 1.1 – Design inputs used for 3A variation

Input	Reference	Date
Design v14.12daz	Beveridge Northwest PSP civil model	14.08.2023
Existing v14.12daz	Existing survey PSP civil model	14.08.2023
BurrungBuluk (HannahSwamp)_VicMapWetlands	VPA – GIS Hanna Swamp	08.08.2022

The following guidelines have been used in the preparation of this design:

- Austroads Guide to Road Design Part 3: Geometric Design
- Austroads Guide to Road Design Part 4A: Unsignalised and Signalised Intersections
- VicRoads Supplement to Austroads Guide to Road Design (AGRD) Part 3: Geometric design (2021)
- VicRoads Supplement to the Austroads Guide to Road Design Part 4A - Signalised & Unsignalised Intersections
- Road Design Note 04-01 - Heavy Vehicle Network Access Considerations

Table 1.2 summarises the design parameters adopted for the horizontal alignment.

Table 1.2 – Horizontal alignment specifications for a design and operating speed of 80km/hr

Description	Specification	Criteria 1	Criteria 2	Criteria 3
Minimum curve length	AGRD part 3 Table 7.7	V80	180m	
Frictional Factor (Cars)	AGRD Part 3 Table 7.5	V80	Des max 0.16	Abs max 0.26
Minimum curve radius (3% super, Trucks)	As specified in Scope of Works	V80	400m	
Minimum Radii 3% adverse cross fall (New roads)	AGRD Part 3 Table 7.12	V80	660m	Max side friction 0.11
Minimum straight between reverse curves (0.7V) (Design speed based)	AGRD Part 3 Section 7.5.3	V80	56m	
Minimum straight between broken back curves (V) (Design speed based)	AGRD Part 3 Section 7.5.2	V80	80m	
Maximum deflection angle, no curve	AGRD Part 3 Table 7.7	V80	0.5deg	

Table 1.3 details the vertical alignment specifications adopted for the design.

Table 1.3 – Vertical alignment specifications for a design and operating speed of 80km/hr

Description	Specification	Criteria 1	Criteria 2	Criteria 3
Maximum grades	AGRD part 3 Table 8.3	Flat	6%	Road section
	VicRoads Supplement AGRD Pt 3: 8.5.3	Desirable	2.5%	Intersection
	VicRoads Supplement AGRD Pt 4A: 2.2.4	Maximum	5% (vector sum in any direction)	Intersection
Minimum grade	AGRD Part 3 Table 8.5	Minimum	0.5%	
	AGRD Part 3 Table 8.5	Desirable	1%	
Minimum vertical curve length (New construction)	AGRD Part 3 Table 8.10	V80	60m	Single carriageway
Minimum straight between broken back curves (0.4V)	AGRD Part 3 Section 8.6.6	V80	32m	
Maximum grade change without vertical curve	AGRD Part 3 Table 8.12	V80	0.6%	
Minimum Sag K value	AGRD Part 3 Figure 8.9	V80	10 – 17	
Desirable minimum crest K value (Design speed based)	AGRD Part 3 Table 8.7	V80	Rt=2.0s	29.3

Table 1.4 details the sight distance specifications adopted for the design.

Table 1.4 – Sight distance specifications for a design and operating speed of 80km/hr

Description	Specification	Criteria 1	Criteria 2	Criteria 3
Driver Reaction time (Rt)	AGRD part 3 5.2.2	2.0 sec		
Coefficient of Deceleration (Car)	AGRD Part 3 Table 5.5	0.36		
Car Stopping Sight Distance (SSD) – no grade correction	VicRoads Supplement AGRD Pt 3: 5.2.2	V80	Rt=2.0s	115m
Eye Height	AGRD Part 3 Table 5.1	1.1m Cars	2.4m Truck	
Eye location	AGRD Part 3 Table 5.1	Centre of lane		
Object height	AGRD Part 3 Table 5.1	0.0m ASD		
	AGRD Part 3 Table 5.1	0.2m SSD		
	AGRD Part 3 Table 5.1	0.65m MGSD		
	AGRD Part 3 Table 5.1	1.25m SISD		

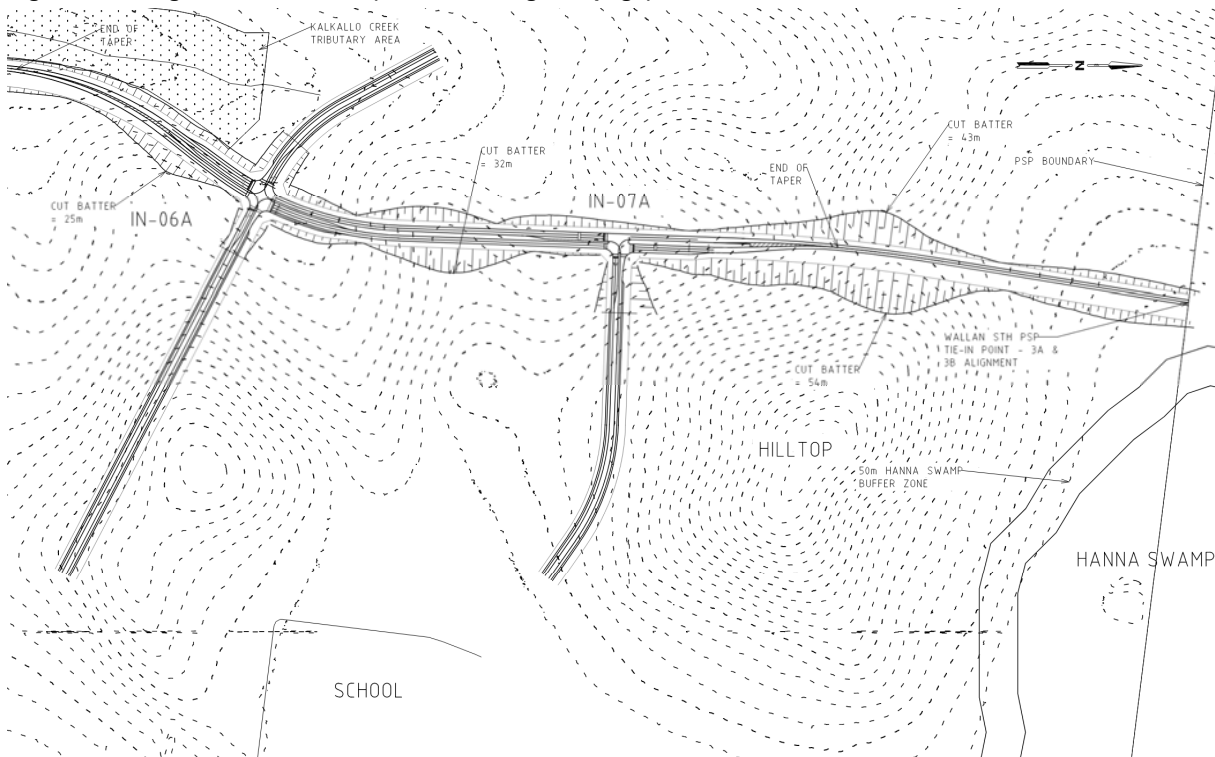
Finally, Table 1.5 details the general design criteria adopted for the design.

Table 1.5 – General design criteria

Description	Specification	Criteria 1	Criteria 2	Criteria 3
Interim road cross fall	PSP specification	3%		
Verge and SUP cross fall	PSP specification	2%		
Road width	PSP specification	3.5m		
Ultimate land reserve	PSP specification	34m (Adjusted as appropriate depending on the existing surface grade)		
Batters	As per Jacobs report recommendations	Cut	Earth	Max. 4:1
	AGRD	Fill	Earth	Max. 4:1

1.4 Design development

Figure 1.1 provides an overview of the revised alignment for 3A.

Figure 1.1 – Alignment of RD-03A (north to the right of page)


The alignment moves through the hilltops, minimising horizontal curves and providing a straight arterial to connect into Wallan South PSP. The changes to the alignment resulted in modifications to IN-06A and IN-07A as the revised arterial has shifted west from its original location.

IN-07A has been positioned as far from IN-06A as possible to increase the functionality of the road network grid. Due to the proximity of IN-06A and IN-07A, the ultimate dual carriageway has been specified in the interim case, due to the lack of space to provide an interim mid-block road. Moving IN-07A north would significantly impact earthworks to an unacceptable level and moving IN-06A further south would infringe into the Kalkallo Creek tributary zone.

The maximum vertical grade through the alignment is 6%, in accordance to the Austroads Guidelines. The acceptability of any future transport link that is proposed to carry buses and requires a departure from the standard maximum 6% grade should be confirmed with the Department of Transport and Planning at the earliest opportunity.

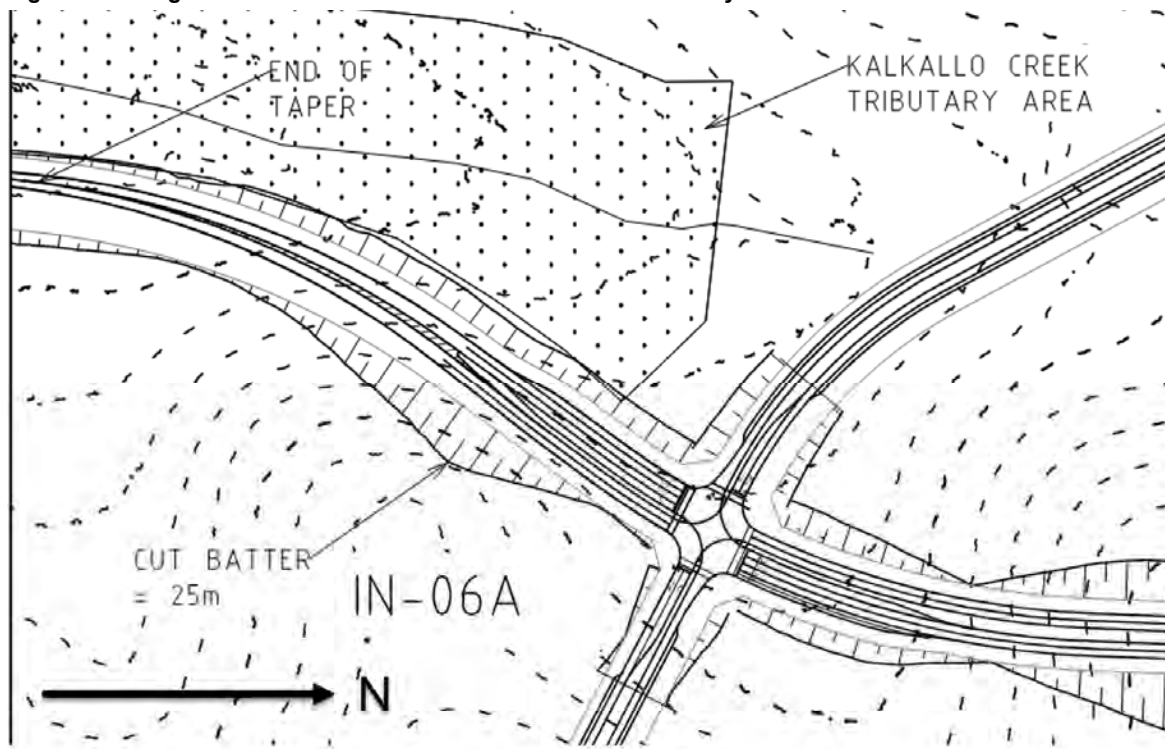
Key changes to the alignment (from the previous issue) included a curve radius of 400m (increased from 240m), as instructed by DTP, and to limit the adverse crossfall to be 3%. These changes result in a shift in the alignment to encroach more into the hilltop and therefore an increased degree of earthworks when compared to the previous alignment. The horizontal curves of the alignment were kept to as close as 400m as possible to maximise the efficiency while avoiding the indicative Kalkallo Creek tributary area west of IN-06A.

The Western Arterial has been identified as a traffic and freight route in the corridor plan and it is expected to form a key link for localized movement of freight and commercial vehicles. With this in mind, we have adopted a conservative approach for the grade on the approaches to the intersection. A maximum 2.5% absolute vertical grade has been applied throughout the approaches to the intersections. The approach of the intersections has been defined as the total required length to allow for a deceleration of a vehicle to a stop, plus a nominal queue length contingency of approx. 15m (AGRD Standard 4A, Clause 5.2.1).

North of IN-07A, we have adopted a vertical curve at 117m from the stop line to the maximum allowable grade of 6% through the hilltops. Moving the vertical curve closer than this would impact the approach to the intersections on a freight route, which Stantec does not recommend.

Figure 1.2 shows the alignment of RD-03A and the avoidance of the Kalkallo creek tributary area (shown in grey).

Figure 1.2 – Alignment of RD-03A avoidance Kalkallo creek tributary area



Full extents of the design can be found in drawing set in Appendix A.

1.5 Design compliance

The horizontal and vertical geometry of the RD-03B alignment was designed according to AGRD guidelines and VicRoads supplements. Compliance with key design requirements is summarised as follows:

- Vertical grades were designed to be no greater than 6.0% throughout the length of the design alignment. Approach grades to intersections were no greater than 2.5%.
- Intersections maintained a 90-degree intersection between the major and minor arterials.
- Approach, stopping and safe intersection sight distance was checked along the control line of the alignment with the 3D surface modelled to check the extents of sight distance at 10m intervals at intersections IN-06A and IN-07A.

- A 4:1 batter slope rather than 6:1 was adopted due to the recommendations of the sodic soil investigation, which specified steeper slopes to reduce erosion potential. The steeper batter slopes have a decreased effect on land take in the PSP.
- The design has used the benchmark VPA cross section as a basis and offsets from the shared user path to kerb have been taken from this section. The clearance from back of kerb is listed as 1.7 metres which is desirable as per VR Supplement to AGRD Pt 6A Section 5.5.1.
- The interim carriageway placement was maintained on the western portion of the ultimate road reserve to maintain consistency with the MAC alignment submitted in June 2022.
- Safety in design principles detailed in the memorandum dated 28th March 2023 have also been adopted in the revised design.

1.6 Costings

Updated cost estimates of the updated design have been prepared by sub consultants Currie and Brown, and are summarised in Table 1.6.

Table 1.6 – 3D Infrastructure cost comparisons

Project	Benchmark Item No.	MAC Cost (June 2022) (\$P90)	Remediated Cost (\$P90)	Departures
RD-03 Sec.2A	Item 1	2,508,000	2,710,000	Increase in works area of IN-06b due to realignment of radius curve. Significant increase of earthworks throughout the alignment to maintain compliance with DTP criteria. Ultimate alignment road design between IN-06A and IN-07A
RD-03 Sec.3A	Item 1	134,000	-	
RD-03 Sec.4A	Item 1	7,592,000	15,432,000	
IN-06A	Item 7	8,928,000	14,639,000	
IN-07A	Item 13	7,947,000	16,334,000	
IN-08	Item 8	7,866,000	7,866,000	
IN-08 (BNW Apportioned)	Item 8	3,933,000	3,933,000	

The revised costings capture the changes in pavement area, earthworks, and sodic soil items from the new design. Sodic soils items were quantified and costed to the same methodology as the MAC Beveridge Northwest PSP Costings report. Refer to Appendix B for the costing sheets from Currie and Brown.

Appendix A. Design Drawings

CAD File: pw:/stantec-ap-pw.bentley.com:/stantec-ap-pw-01/Documents/Australian Clients/Victorian Planning Authority/304200129 - Beveridge Northwest PSP/01/Transport/V181662-CI-DG-1000.dgn
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VICTORIAN PLANNING AUTHORITY

BEVERIDGE NORTHWEST PSP
INFRASTRUCTURE DESIGNS AND COSTINGS
BEVERIDGE 3753 VIC.

CONCEPT HIGH LEVEL DESIGNS
COVER SHEET

6	13.09.23	FINAL CONCEPT DESIGN	IM	SP	
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP	
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK	
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC	
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	VA	FH	
1	02.05.19	ISSUED FOR INFORMATION	NV	EA	
Rev	Date	Description	Drawn	Appr.	

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Title	DRAWING TITLE LINE 1 COVER SHEET

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	Size A3
Drawing Number	V181662-CI-DG-1000	Sheet No.	Revision 6



LOCALITY PLAN - RD03B
SCALE 1:20000

Rev	Date	Description	Drawn	Appr.
7	13.09.23	FINAL CONCEPT DESIGN	IM	FA
6	13.10.22	REMEDIATED ALIGNMENT 3B	SB	DY
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	27.07.19	SHEET NUMBERS UPDATED	VA	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

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Drawing Number	V181662-CI-DG-1001	Sheet No.	7



LOCALITY PLAN - RD03A
SCALE 1:20000

Rev	Date	Description	Drawn	Appr.
3	13.09.23	FINAL CONCEPT DESIGN	IM	FA
2	22.04.22	FINAL CONCEPT DESIGN	SB	SP
1	07.03.22	NEW ALIGNMENT RD03A ADDED	SE	MOK

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Date	13.09.23	Scale	1:20000
Drawing Number	V181662-CI-DG-1002	Sheet No.	Revision
			3

SCHEDULE OF DRAWINGS

DRAWING No.	DESCRIPTION
V181662-CI-DG-1000	COVER SHEET
V181662-CI-DG-1001	LOCALITY PLAN - RD03B - SHEET 1 OF 2
V181662-CI-DG-1002	LOCALITY PLAN - RD03A - SHEET 2 OF 2
V181662-CI-DG-1003	INDEX SHEET
V181544-CI-DG-2002	TYPICAL SECONDARY ARTERIAL ROAD
V181544-CI-DG-2003	TYPICAL CONNECTOR BOULEVARD ROAD
V181544-CI-DG-2009	TYPICAL PRIMARY TO CONNECTOR BLVD INTERSECTION
V181544-CI-DG-2010	TYPICAL PRIMARY TO CONNECTOR BLVD INTERSECTION
V181544-CI-DG-2011	TYPICAL SECONDARY TO SECONDARY INTERSECTION
V181544-CI-DG-2012	TYPICAL SECONDARY TO SECONDARY INTERSECTION
V181544-CI-DG-2013	TYPICAL SECONDARY TO CONNECTOR BLVD INTERSECTION
V181544-CI-DG-2014	TYPICAL SECONDARY TO CONNECTOR BLVD INTERSECTION
V181544-CI-DG-2032	TYPICAL INTERIM SECONDARY ARTEIAL BRIDGE
V181544-CI-DG-2034	TYPICAL ULTIMATE CONNECTOR ROAD BRIDGE
V181544-CI-DG-2040	TYPICAL BOX CULVERT 1800X3000
V181544-CI-DG-2043	TYPICAL CULVERT DN1200 SECONDARY
V181662-CI-DG-1701	CH 0 - CH 2200 - RD03 - GEOMETRIC PLAN
V181662-CI-DG-1702	CH 2200 - CH 4935.714- RD03&04 - GEOMETRIC PLAN
V181662-CI-DG-1711	CH 0 - CH 2200 - RD03 - GEOMETRIC PLAN
V181662-CI-DG-1712	CH 2200 - CH 3378.695- RD03A - GEOMETRIC PLAN
V181662-CI-DG-2000	ALIGNMENT KEY PLAN - RD03, RD03A, RD03B & RD04
V181662-CI-DG-2001	RD03 CH 0 - CH 250 - ALIGNMENT PLAN
V181662-CI-DG-2002	RD03 CH 250 - CH 497 - ALIGNMENT PLAN
V181662-CI-DG-2003	RD03 INTERSECTION 05 CH 497 - CH 873 - ALIGNMENT PLAN
V181662-CI-DG-2004	RD03 CH 873 - CH 1205 - ALIGNMENT PLAN
V181662-CI-DG-2005	RD03 CH 1205 - CH 1484 - ALIGNMENT PLAN
V181662-CI-DG-2006	RD03 INTERSECTION 06 CH 1484 - CH 1840 - ALIGNMENT PLAN
V181662-CI-DG-2007	RD03 CH 1840 - CH 2090 - ALIGNMENT PLAN
V181662-CI-DG-2008	RD03 INTERSECTION 07 CH 2090 - CH 2500 - ALIGNMENT PLAN
V181662-CI-DG-2009	RD03B CH 2500 - CH 2750 - ALIGNMENT PLAN
V181662-CI-DG-2010	RD03B CH 2750 - CH 3070 - ALIGNMENT PLAN
V181662-CI-DG-2011	RD03B CH 3070 - CH 3430 - ALIGNMENT PLAN
V181662-CI-DG-2012	RD03B CH 3430 - CH 3780 - ALIGNMENT PLAN
V181662-CI-DG-2013	RD03B CH 3780 - CH 4080 - ALIGNMENT PLAN
V181662-CI-DG-2014	RD03B CH 4080 - CH 4283 - ALIGNMENT PLAN
V181662-CI-DG-2022	RD04 INTERSECTION 12 CH 5078 - CH 5448 - ALIGNMENT PLAN
V181662-CI-DG-2023	RD04 CH 14000 - CH 14330 - ALIGNMENT PLAN
V181662-CI-DG-2024	RD04 CH 14330 - CH 14617.203 - ALIGNMENT PLAN
V181662-CI-DG-2050	ALIGNMENT KEY PLAN - RD03 & RD03A
V181662-CI-DG-2048	RD03A CH 1180 - CH 1540 - ALIGNMENT PLAN
V181662-CI-DG-2049	RD03A CH 1540 - CH 1890 - ALIGNMENT PLAN
V181662-CI-DG-2051	RD03A CH 1890 - CH 2260 - ALIGNMENT PLAN
V181662-CI-DG-2052	RD03A CH 2260 - CH 2640 - ALIGNMENT PLAN
V181662-CI-DG-2053	RD03A CH 2640 - CH 2876.300 - ALIGNMENT PLAN
V181662-CI-DG-2054	RD03A CH 2800 - CH 3150 - ALIGNMENT PLAN
V181662-CI-DG-2055	RD03A CH 3150 - CH 3379.695 - ALIGNMENT PLAN
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V181662-CI-DG-3002	RD03 - CH 340 - CH 680 - LONGITUDINAL SECTION
V181662-CI-DG-3003	RD03 - CH 680 - 1020 - LONGITUDINAL SECTION
V181662-CI-DG-3004	RD03 - CH 1020 - 1360 - LONGITUDINAL SECTION
V181662-CI-DG-3005	RD03 - CH 1360 - 1680 - LONGITUDINAL SECTION
V181662-CI-DG-3006	RD03 - CH 1680 - 2020 - LONGITUDINAL SECTION
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V181662-CI-DG-3008	RD03 - CH 2360 - CH 2700 - LONGITUDINAL SECTION
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V181662-CI-DG-3012	RD03A - CH 1360 - CH 1700 - LONGITUDINAL SECTION

V181662-CI-DG-3013	RD03A - CH 1700 - 2040 - LONGITUDINAL SECTION
V181662-CI-DG-3014	RD03A - CH 2040 - 2380 - LONGITUDINAL SECTION
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V181662-CI-DG-3016	RD03A - CH 2720 - CH 2876.192 - LONGITUDINAL SECTION
V181662-CI-DG-3017	RD03A - CH 3740 - CH 4080 - LONGITUDINAL SECTION
V181662-CI-DG-3018	RD03B - CH 1020 - CH 1360 - LONGITUDINAL SECTION
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V181662-CI-DG-3033	RD04 - CH 5000 - CH 5340 - LONGITUDINAL SECTION
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V181662-CI-DG-3036	RD04 - CH 14340 - CH 14617.206 - LONGITUDINAL SECTION
V181662-CI-DG-4001	RD03 - CROSS SECTIONS - SHEET 1 OF 3
V181662-CI-DG-4002	RD03 - CROSS SECTIONS - SHEET 2 OF 3
V181662-CI-DG-4003	RD03 - CROSS SECTIONS - SHEET 3 OF 3
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V181662-CI-DG-4012	RD03A - CROSS SECTIONS - SHEET 2 OF 2
V181662-CI-DG-4021	RD03B - CROSS SECTION - SHEET 1 OF 3
V181662-CI-DG-4022	RD03B - CROSS SECTION - SHEET 2 OF 3
V181662-CI-DG-4023	RD03B - CROSS SECTION - SHEET 3 OF 3
V181662-CI-DG-4031	RD04 - CROSS SECTIONS - SHEET 1 OF 3
V181662-CI-DG-4032	RD04 - CROSS SECTIONS - SHEET 2 OF 3
V181662-CI-DG-4033	RD04 - CROSS SECTIONS - SHEET 3 OF 3
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V181662-CI-SK-9001	RD04 - STRIP PLAN

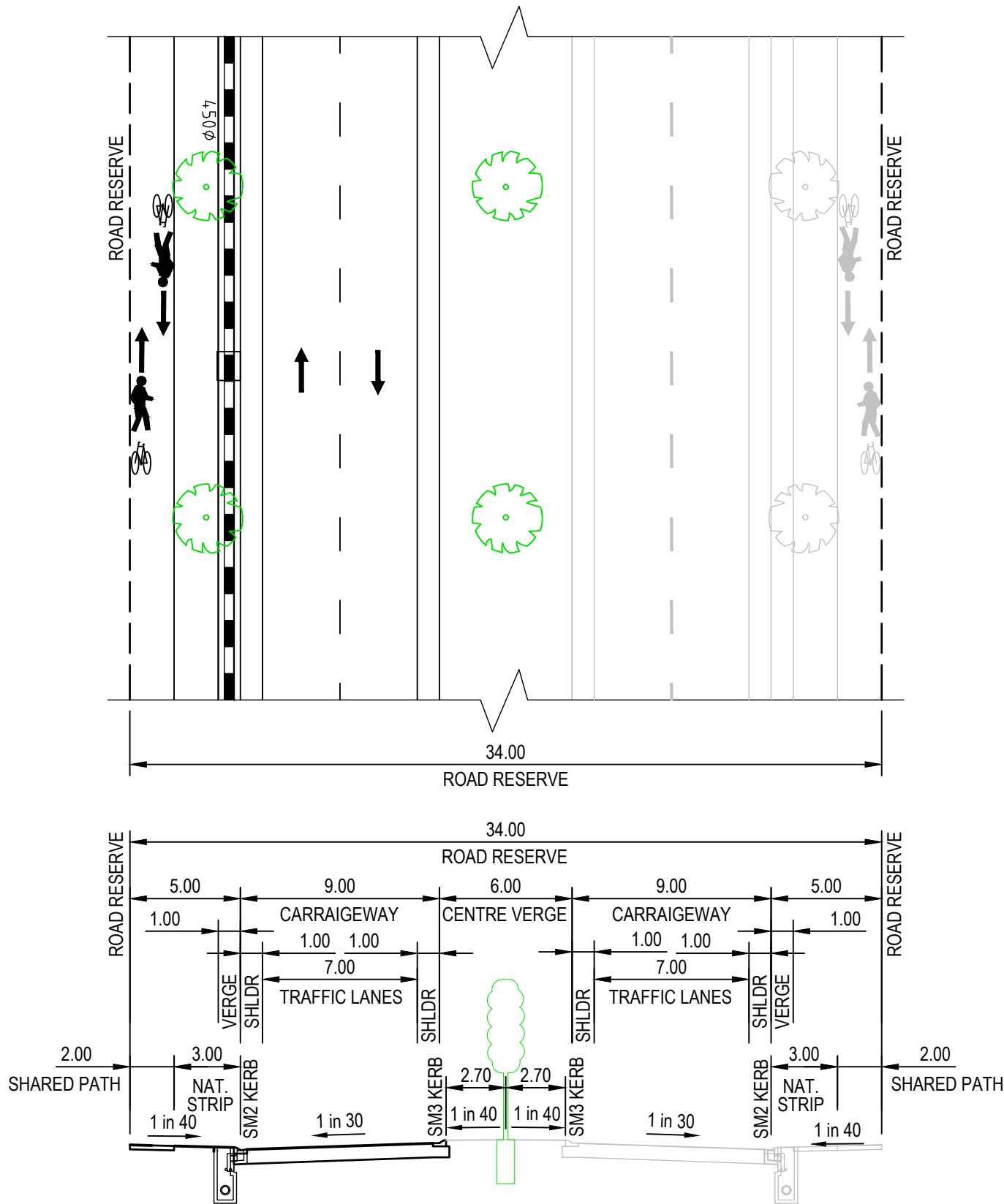
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3	13.10.22	REMIEDIATED ALIGNMENT 3B	SB	DY	
2	22.04.22	FINAL CONCEPT DESIGN	SB	SP	
1	07.03.22	NEW ALIGNMENT RD03A ADDED	SE	MOK	
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Rev	Date	Description	Des.	Verif.	Appd.
6	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
5	23/07/2018	ADDRESS VPA COMMENTS	CM		
4	05/07/2018	ADDRESS VPA COMMENTS	CM		
3	29/06/2018	ADDRESS VPA COMMENTS	CM		
2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	RVR		

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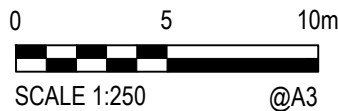
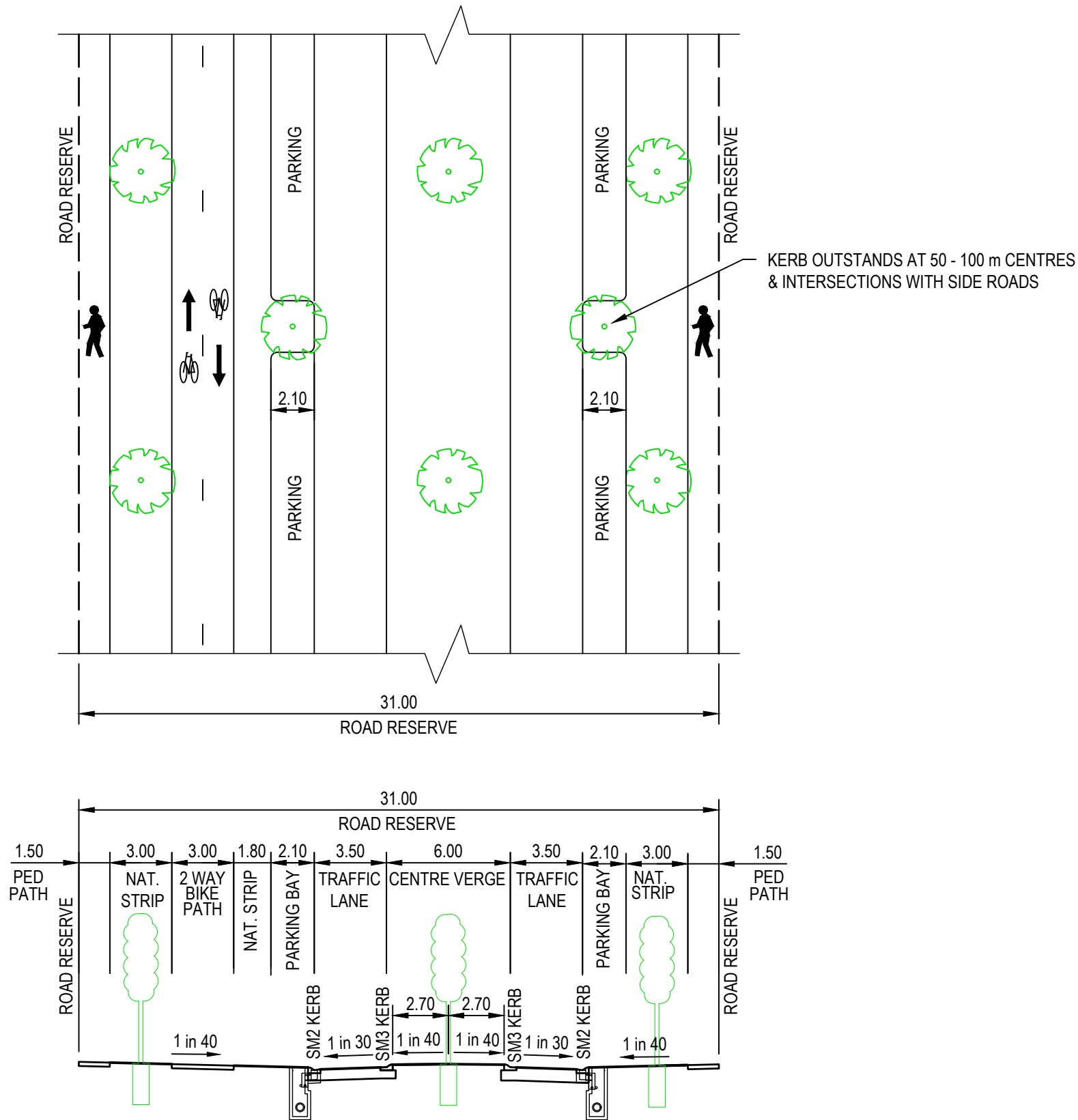
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Checked MEA	Date 28/09/2017
Designed RVR	Date
Verified	Date
Approved	Date

Client VICTORIAN PLANNING AUTHORITY
Project BENCH MARK INFRASTRUCTURE COSTING
Title ITEM 2 SECONDARY ARTERIAL ROAD INTERIM

Status NOT TO BE USED FOR CONSTRUCTION PURPOSES	Scale 1:250	Size A3
Drawing Number V181544-CI-DG-2002	Revision 6	



Rev	Date	Description	Des.	Verif.	Appd.
5	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
4	05/07/2018	ADDRESS VPA COMMENTS	CM		
3	29/06/2018	ADDRESS VPA COMMENTS	CM		
2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	RVR		

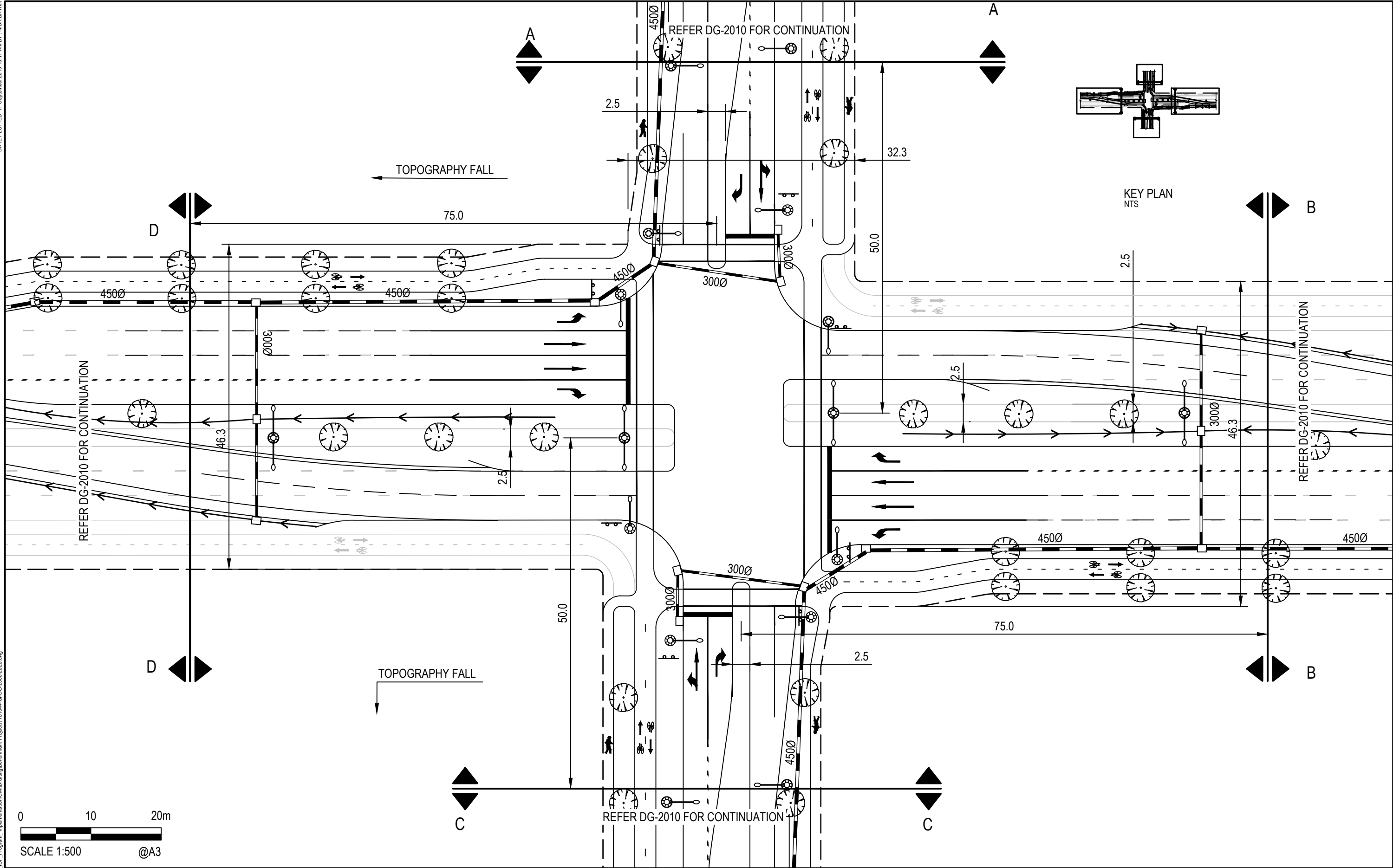
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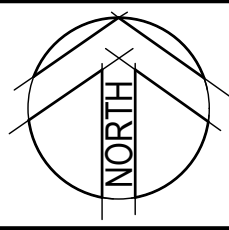
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Checked	MEA	Date	28/09/2017
Designed	RVR	Date	
Verified		Date	
Approved		Date	

Client	VICTORIAN PLANNING AUTHORITY
Project	BENCH MARK INFRASTRUCTURE COSTING
Title	ITEM 3 CONNECTOR BOULEVARD ULTIMATE

Status	CONCEPT NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Number	1:250	Size	A3
V181544-CI-DG-2003			Revision 5



Rev	Date	Description	Des.	Verif.	Appd.
7	12/03/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
6	28/02/2019	ADDRESS STAKEHOLDER COMMENTS V.2.	CM		
5	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
4	05/07/2018	ADDRESS VPA COMMENTS	CM		
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2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	RVR		



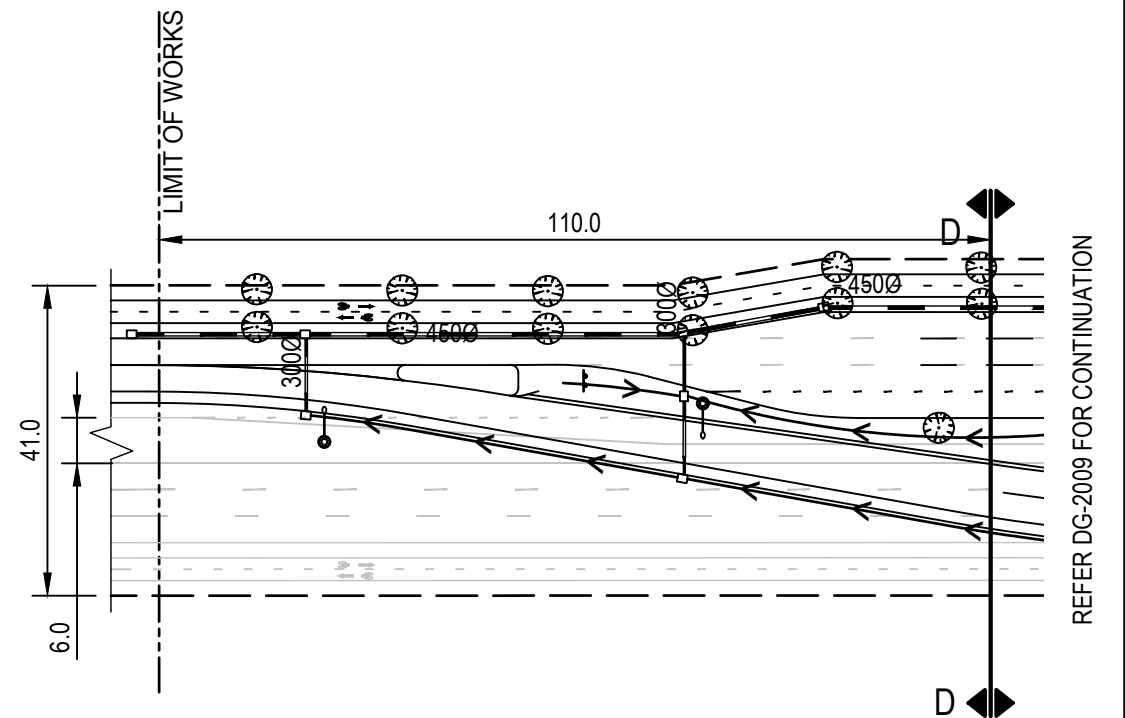
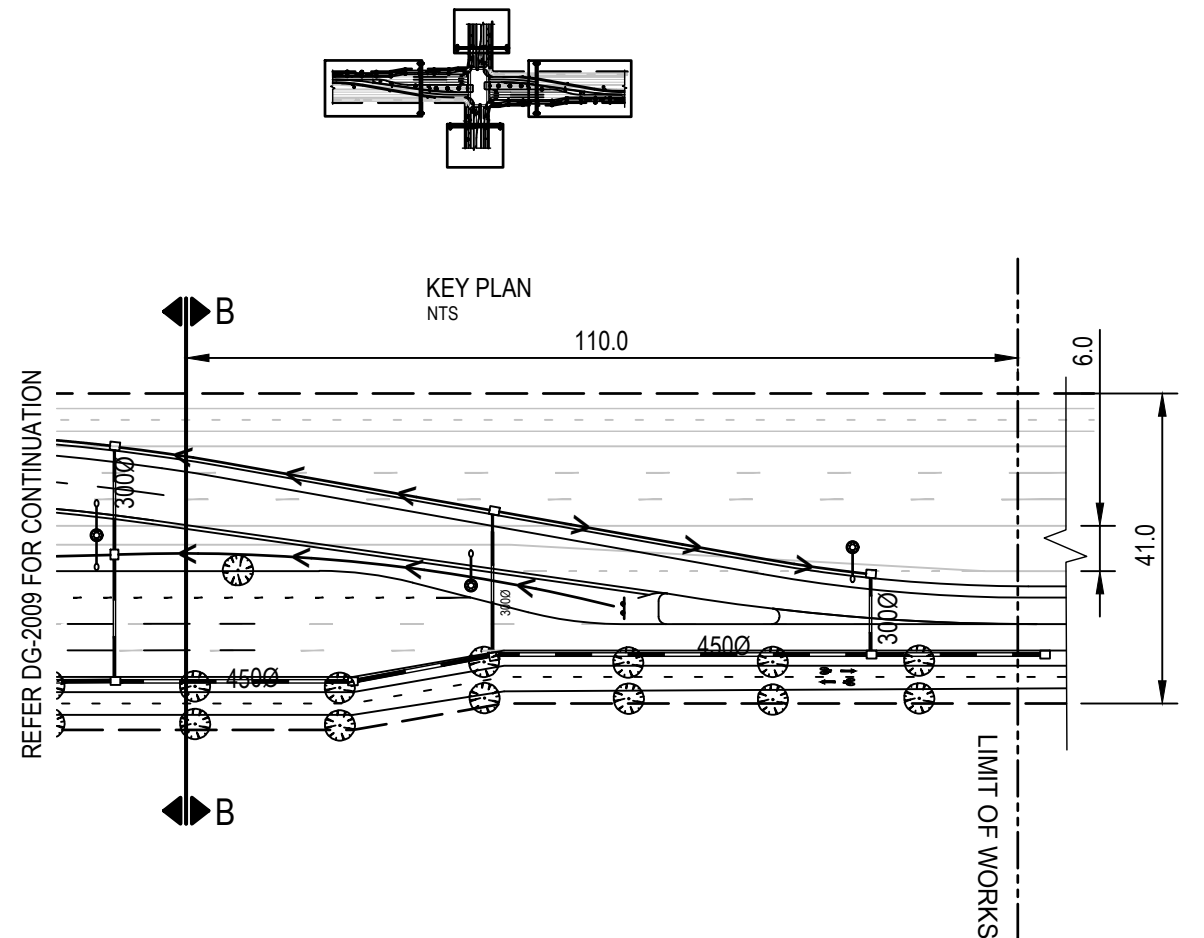
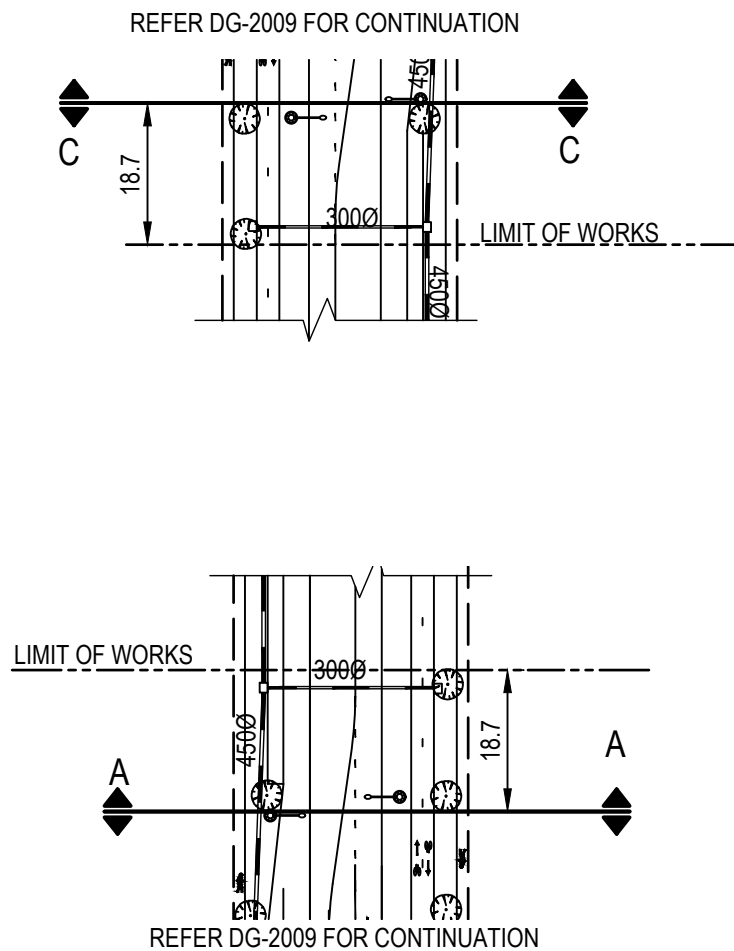
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Checked	MEA	Date	14/12/2017
Designed	RVR	Date	
Verified		Date	
Approved		Date	

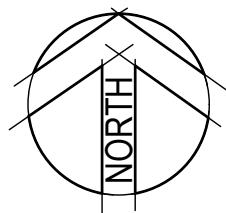
Client	VICTORIAN PLANNING AUTHORITY
Project	BENCH MARK INFRASTRUCTURE COSTING
Title	ITEM 7 PRIMARY TO CONNECTOR BLVD INTERSECTION INTERIM

Status	CONCEPT NOT TO BE USED FOR CONSTRUCTION PURPOSES		
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Drawing Number	V181544-CI-DG-2009		Revision 7



0 20 40m
SCALE 1:1000 @A3

Rev	Date	Description	Des.	Verif.	Appd.
7	12/03/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
6	28/02/2019	ADDRESS STAKEHOLDER COMMENTS V.2.	CM		
5	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
4	05/07/2018	ADDRESS VPA COMMENTS	CM		
3	29/06/2018	ADDRESS VPA COMMENTS	CM		
2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	RVR		



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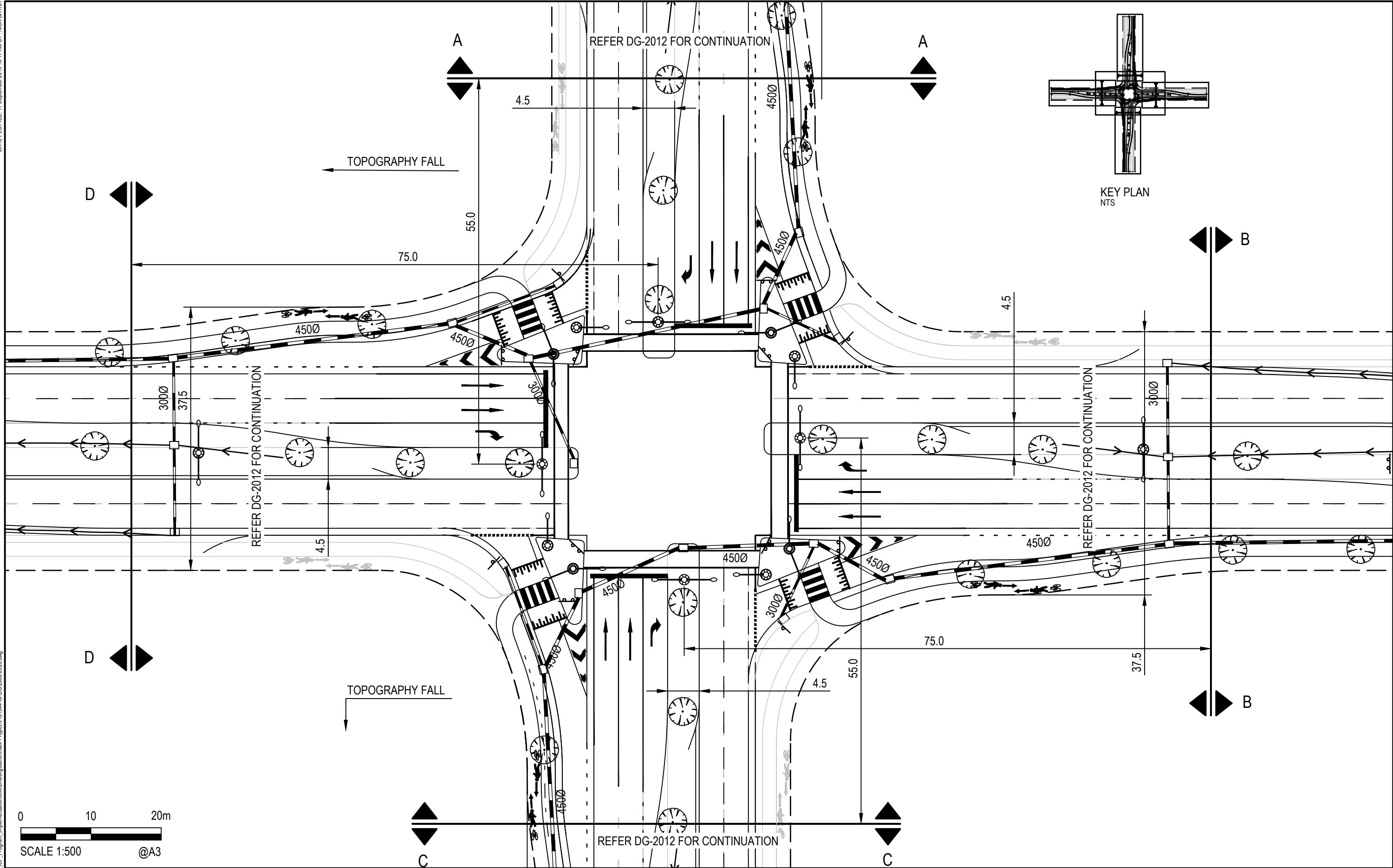
Drawn NPV	Date 14/12/2017
Checked MEA	Date 14/12/2017
Designed RVR	Date
Verified	Date
Approved	Date

Client VICTORIAN PLANNING AUTHORITY
Project BENCH MARK INFRASTRUCTURE COSTING
Title ITEM 7 PRIMARY TO CONNECTOR BLVD INTERSECTION INTERIM

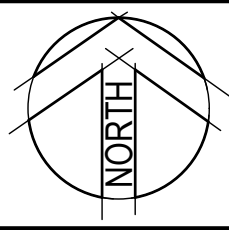
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Drawing Number V181544-CI-DG-2010	Revision 7	

DATE PLOTTED: 17 September 2019 10:17 AM BY: NICK BARTRA

XREF: C:\D:\181544_VPA_ICP_Program_Implementation\CallDraughting\Benchmark Project\181544-CI-DG-2000-2028.dwg



Rev	Date	Description	Des.	Verif.	Appd.
5	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
4	05/07/2018	ADDRESS VPA COMMENTS	CM		
3	29/06/2018	ADDRESS VPA COMMENTS	CM		
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1	14/12/2017	PRELIMINARY ISSUE	RVR		



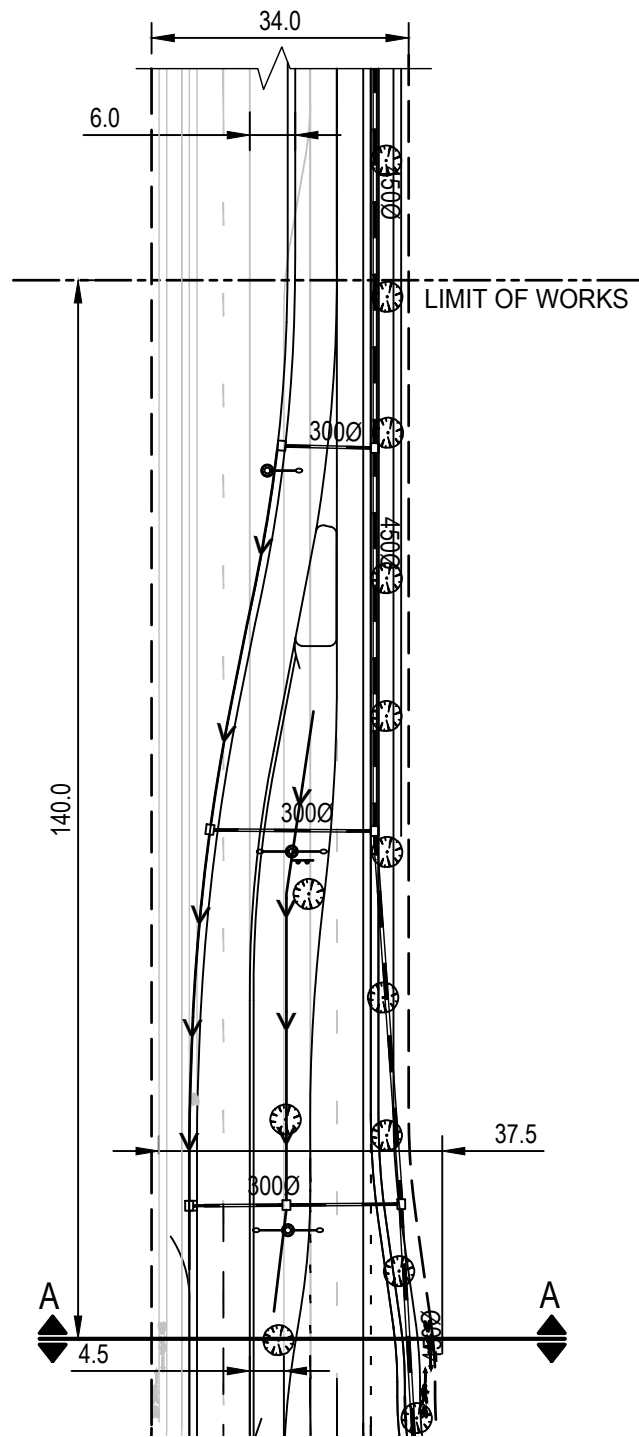
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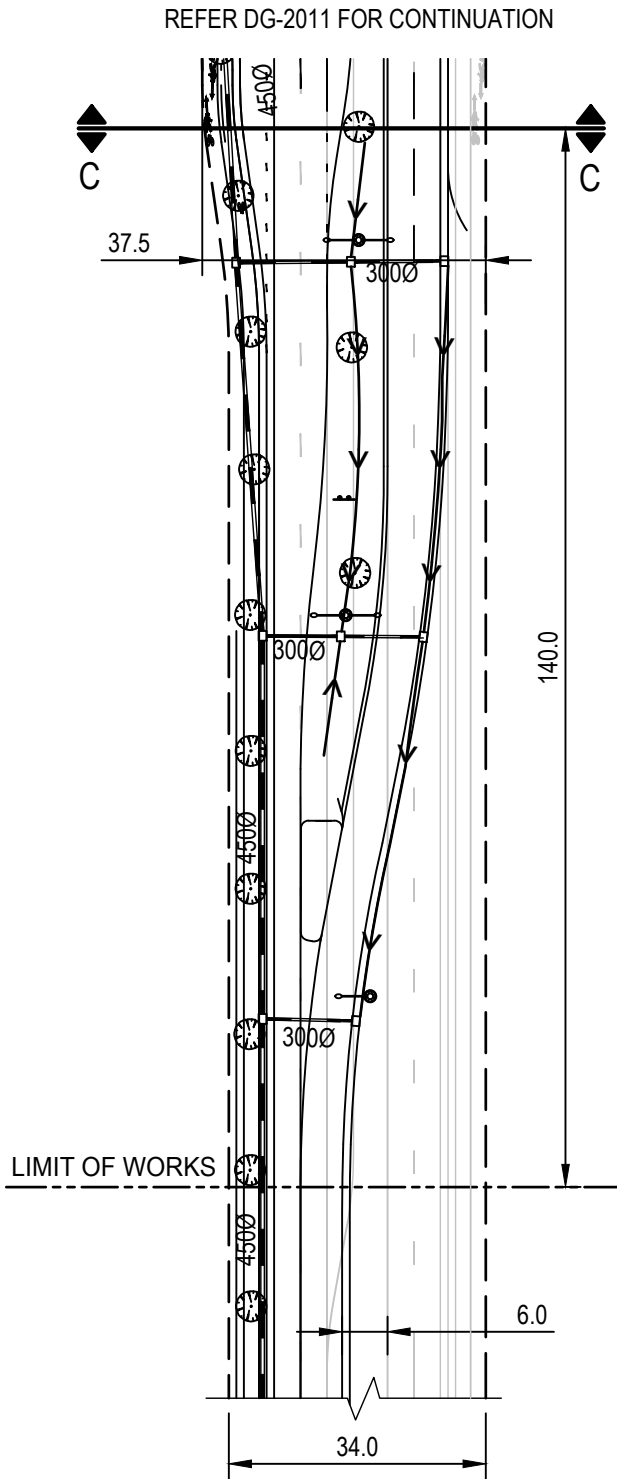
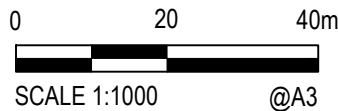
Drawn NPV	Date 14/12/2017
Checked MEA	Date 14/12/2017
Designed RVR	Date
Verified	Date
Approved	Date

Client VICTORIAN PLANNING AUTHORITY
Project BENCH MARK INFRASTRUCTURE COSTING
Title ITEM 8 SECONDARY TO SECONDARY INTERSECTION INTERIM

Status			
CONCEPT			
NOT TO BE USED FOR CONSTRUCTION PURPOSES			
		Scale 1:500	Size A3
Drawing Number V181544-CI-DG-2011			Revision 5



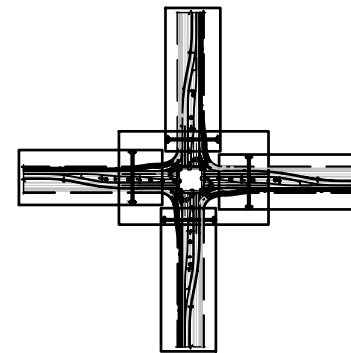
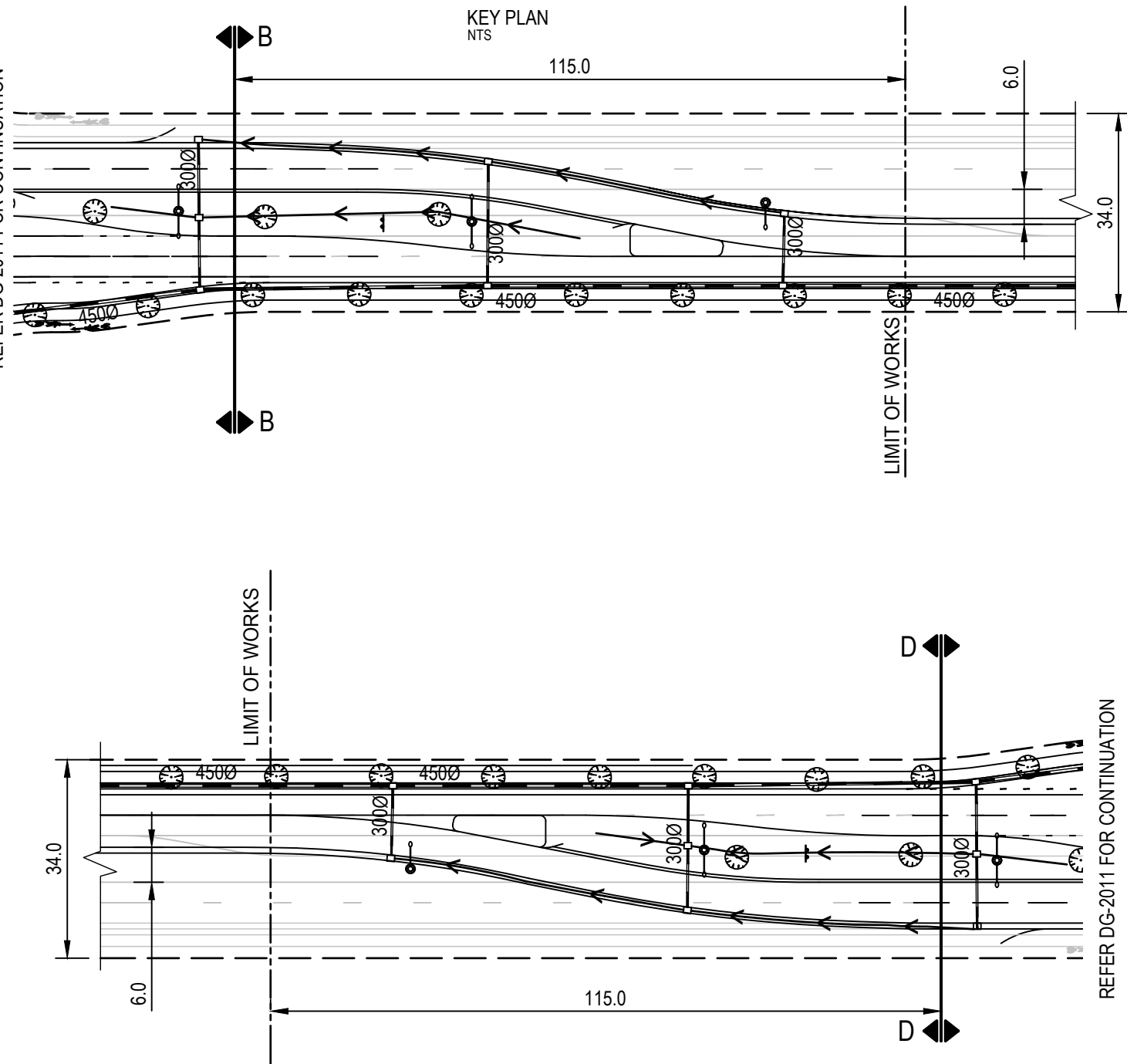
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REFER DG-2011 FOR CONTINUATION

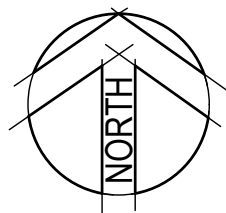
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REFER DG-2011 FOR CONTINUATION



REFER DG-2011 FOR CONTINUATION

Rev	Date	Description	Des.	Verif.	Appd.
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4	05/07/2018	ADDRESS VPA COMMENTS	CM		
3	29/06/2018	ADDRESS VPA COMMENTS	CM		
2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	RVR		



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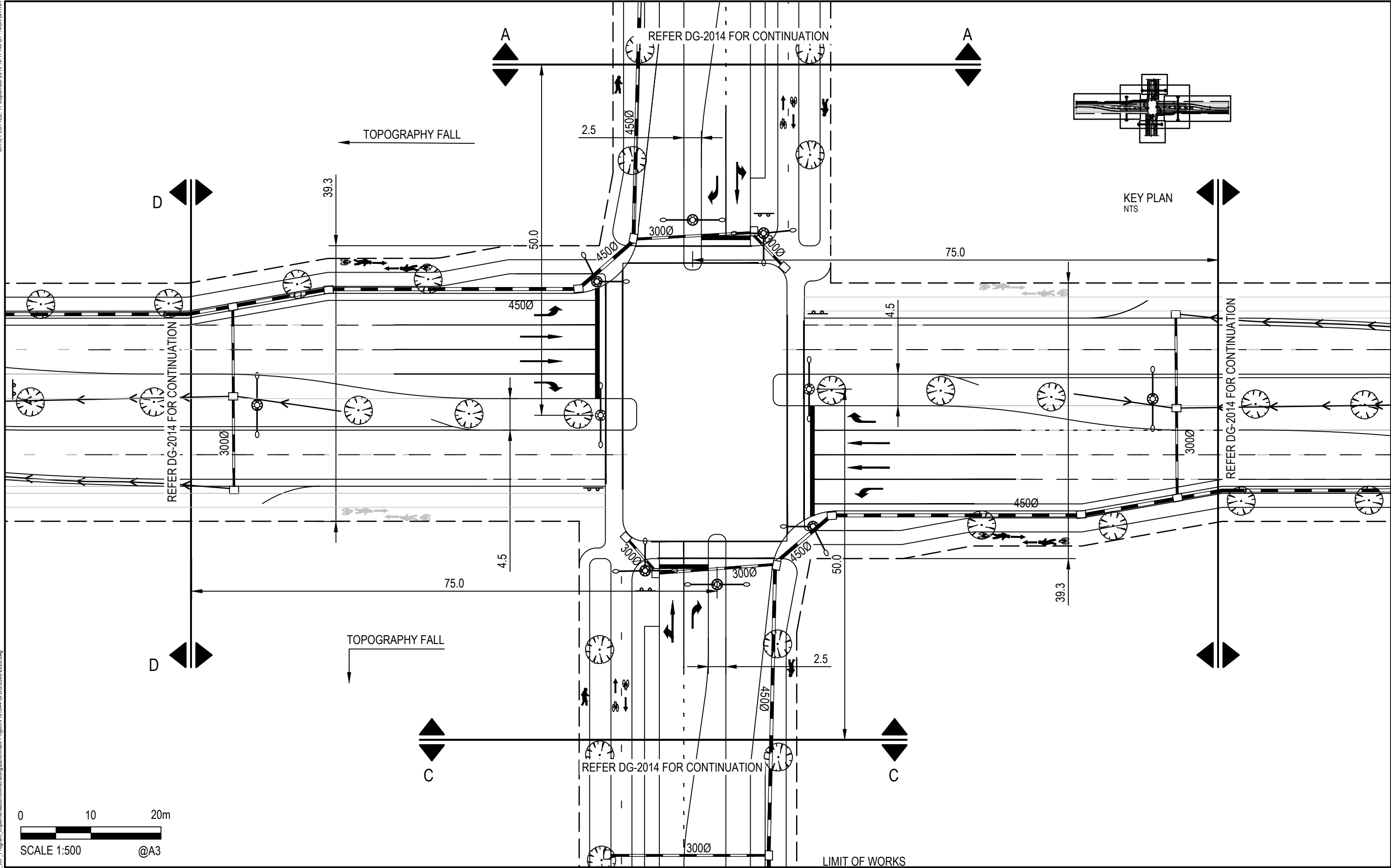
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Checked MEA	Date 14/12/2017
Designed RVR	Date
Verified	Date
Approved	Date

Client VICTORIAN PLANNING AUTHORITY
Project BENCH MARK INFRASTRUCTURE COSTING
Title ITEM 8 SECONDARY TO SECONDARY INTERSECTION INTERIM

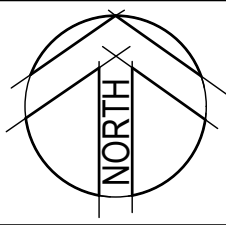
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Drawing Number V181544-CI-DG-2012
Revision 5

DATE PLOTTED: 17 September 2019 10:17 AM BY: NICK BARTRA

XREF: C:\D:\File_M\2018\1514_VPA_ICP_Program_Implementation\CallDraughting\Benchmark Project\1514-4-CL-DG-2000-2028.dwg



Rev	Date	Description	Des.	Verif.	Appd.
7	12/03/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
6	28/02/2019	ADDRESS STAKEHOLDER COMMENTS V.2.	CM		
5	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
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1	14/12/2017	PRELIMINARY ISSUE	RVR		



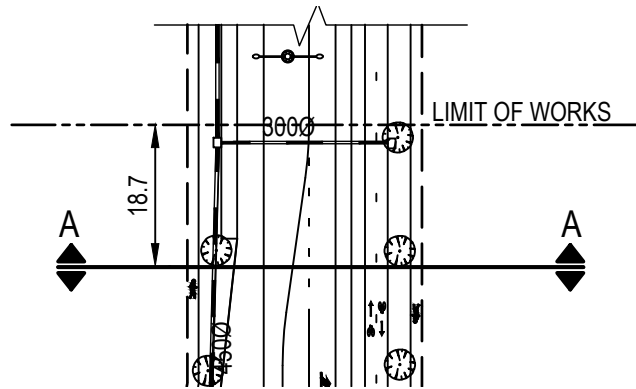
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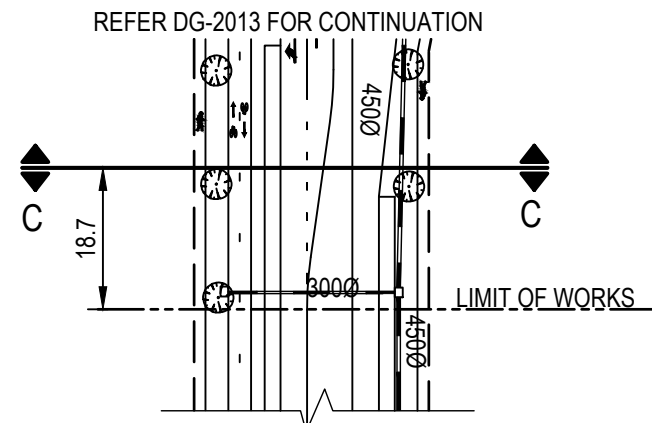
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Checked	MEA	Date	14/12/2017
Designed	RVR	Date	
Verified		Date	
Approved		Date	

Client	VICTORIAN PLANNING AUTHORITY
Project	BENCH MARK INFRASTRUCTURE COSTING
Title	ITEM 9 SECONDARY TO CONNECTOR BLVD INTERSECTION INTERIM

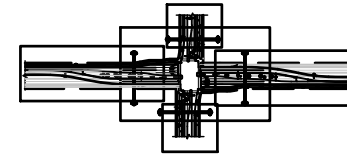
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Drawing Number	V181544-CI-DG-2013		Revision
			7



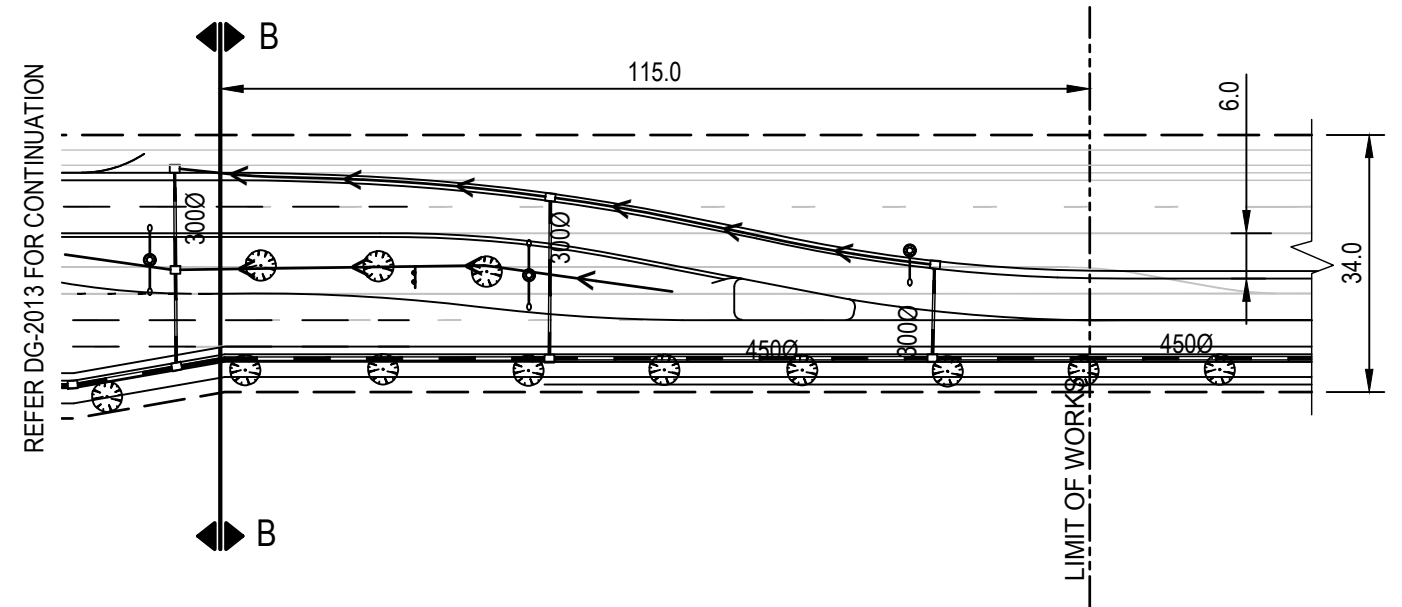
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REFER DG-2013 FOR CONTINUATION

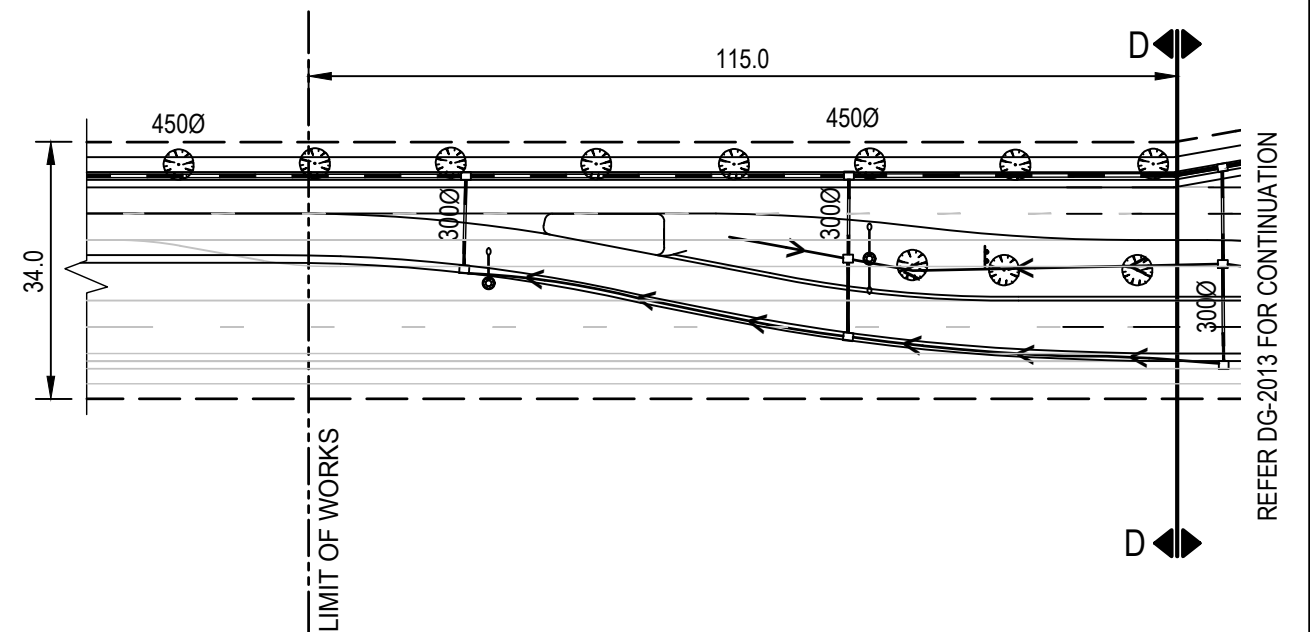


KEY PLAN
NTS



REFER DG-2013 FOR CONTINUATION

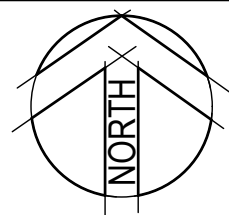
LIMIT OF WORKS



REFER DG-2013 FOR CONTINUATION

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6	28/02/2019	ADDRESS STAKEHOLDER COMMENTS V.2.	CM		
5	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
4	05/07/2018	ADDRESS VPA COMMENTS	CM		
3	29/06/2018	ADDRESS VPA COMMENTS	CM		
2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	RVR		



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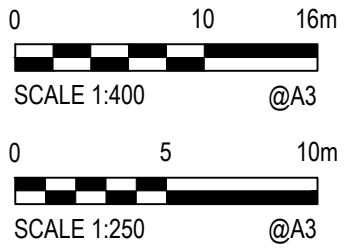
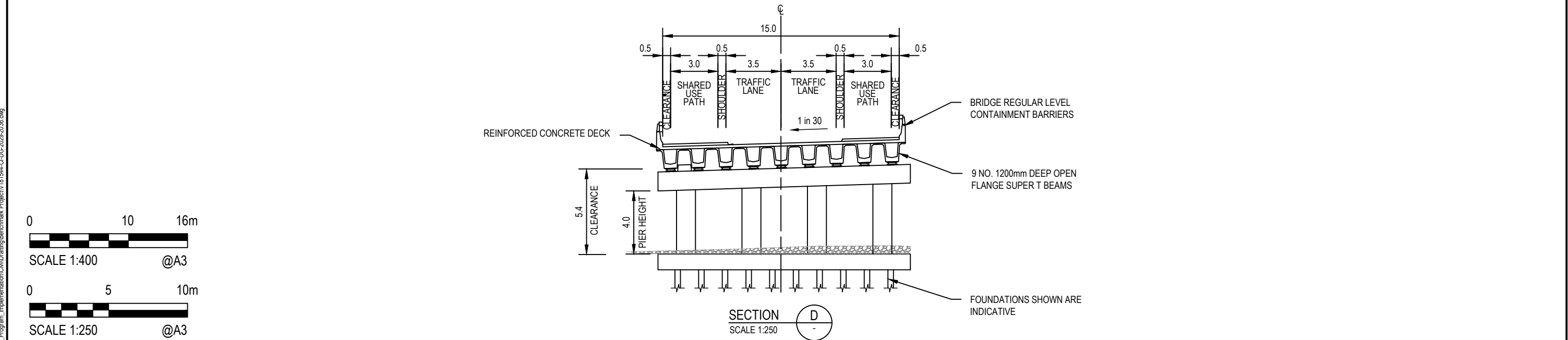
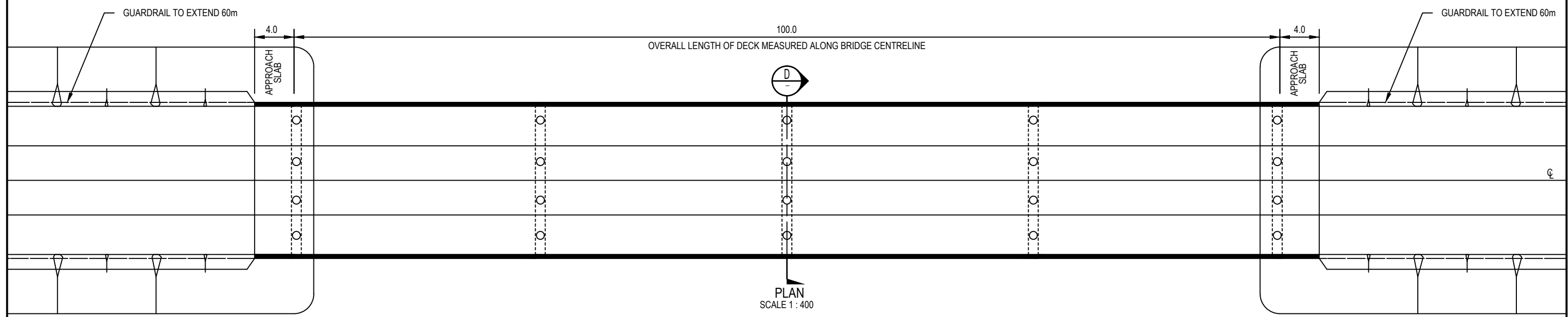
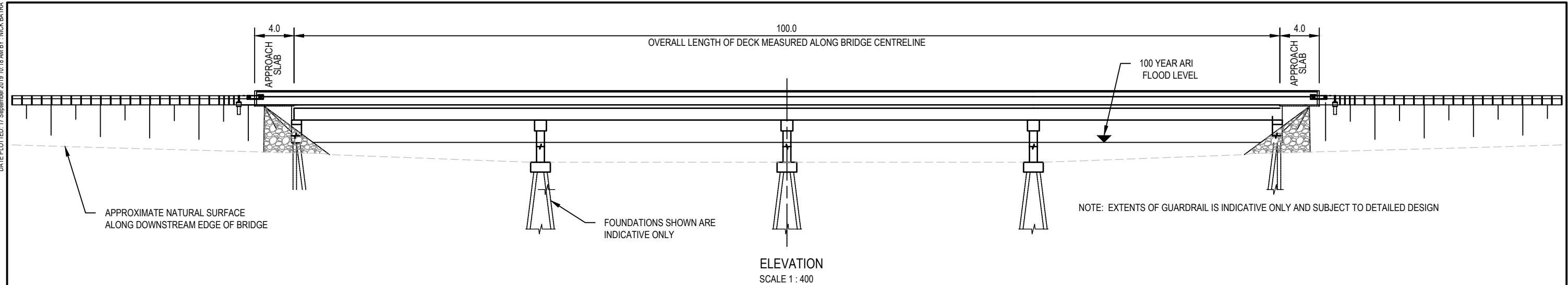
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Verified	Date
Approved	Date

Client VICTORIAN PLANNING AUTHORITY
Project BENCH MARK INFRASTRUCTURE COSTING
Title ITEM 9 SECONDARY TO CONNECTOR BLVD INTERSECTION INTERIM

Status CONCEPT NOT TO BE USED FOR CONSTRUCTION PURPOSES	Scale 1:1000	Size A3
Drawing Number V181544-CI-DG-2014	Revision 7	

DATE PLOTTED: 17 September 2019 10:18 AM BY: NICK BATTIA



Rev	Date	Description	Des.	Verif.	Appd.
3	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	VA		

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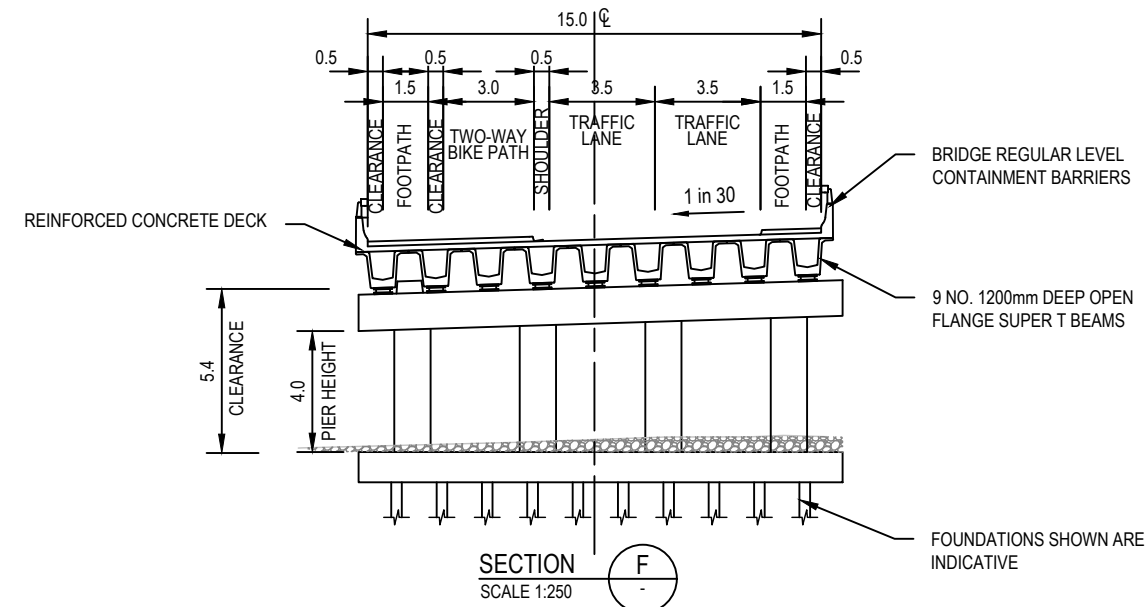
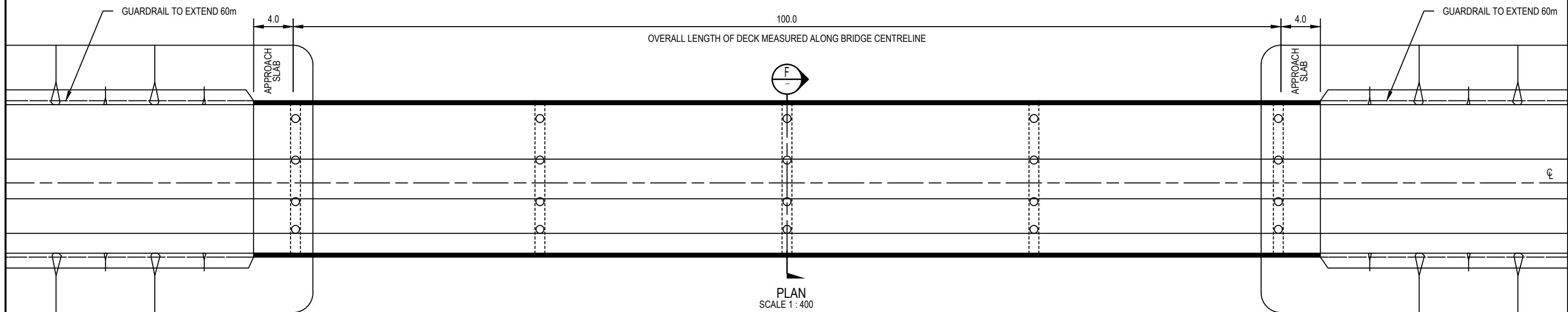
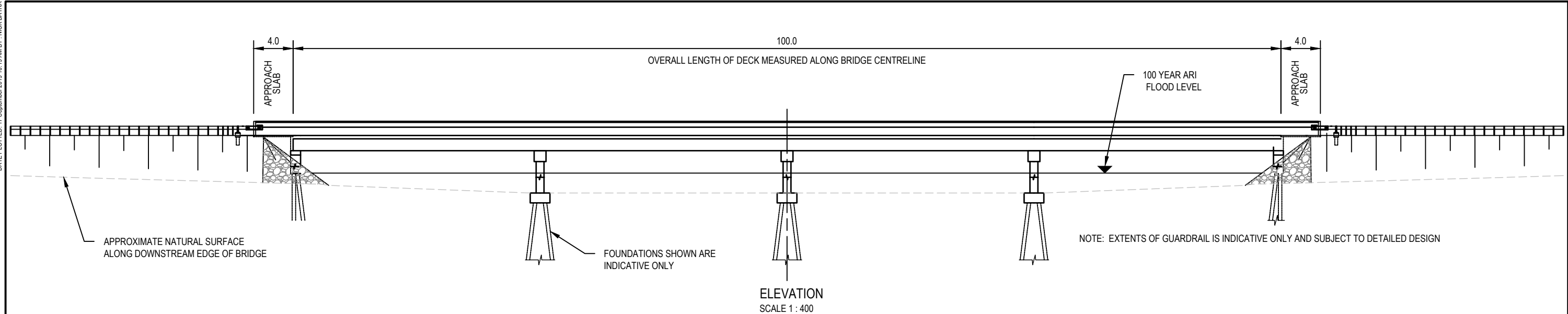
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Drawn NPV	Date 14/12/2017
Checked MEA	Date 14/12/2017
Designed RVR	Date
Verified	Date
Approved	Date

Client VICTORIAN PLANNING AUTHORITY
Project BENCH MARK INFRASTRUCTURE COSTING
Title ITEM 20 SECONDARY ARTERIAL 100m LONG SUPER T BRIDGE INTERIM

Status CONCEPT NOT TO BE USED FOR CONSTRUCTION PURPOSES
Drawing Number V181544-CI-DG-2032
Scale AS SHOWN
Size A3
Revision 3

DATE PLOTTED: 17 September 2019 10:19 AM BY: NICK BATTIA



Rev	Date	Description	Des.	Verif.	Appd.
4	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
3	05/07/2018	ADDRESS VPA COMMENTS	CM		
2	19/03/2018	ADDRESS VPA COMMENTS	VA		
1	14/12/2017	PRELIMINARY ISSUE	VA		

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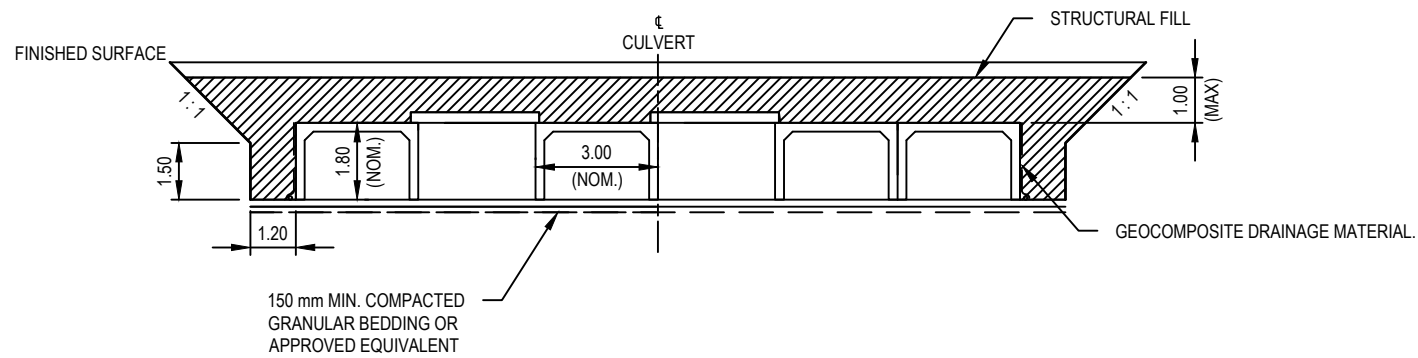
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Drawn NPV	Date 14/12/2017
Checked MEA	Date 14/12/2017
Designed RVR	Date
Verified	Date
Approved	Date

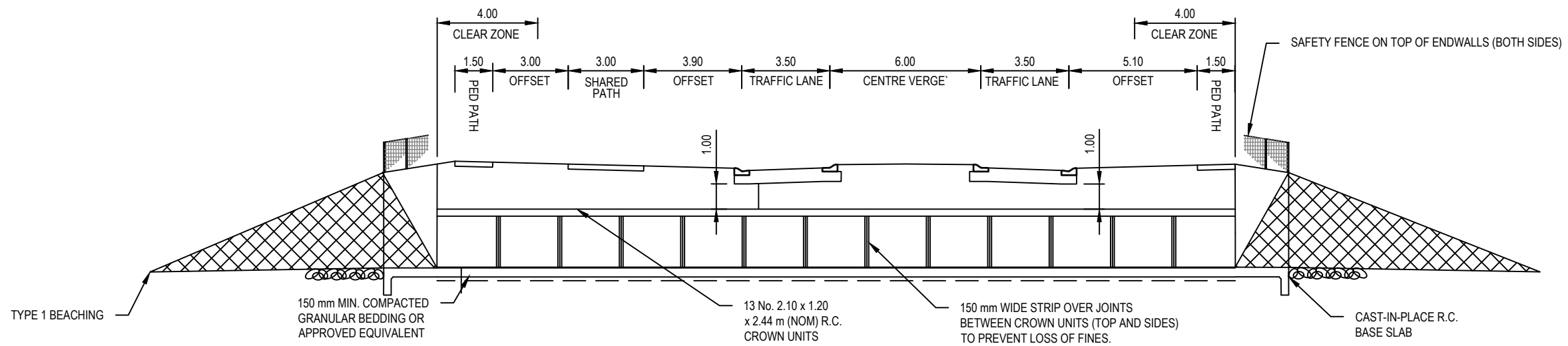
Client VICTORIAN PLANNING AUTHORITY
Project BENCH MARK INFRASTRUCTURE COSTING
Title ITEM 22 CONNECTOR 100m LONG SUPER T BRIDGE INTERIM

Status CONCEPT NOT TO BE USED FOR CONSTRUCTION PURPOSES
Drawing Number V181544-CI-DG-2034
Scale AS SHOWN
Size A3
Revision 4

DATE PLOTTED: 28 February 2019 2:57 PM BY: SAMUEL BECKHAM
XREF's: V170524-CI-DG-2000-2010
CAD File: V170524-CI-DG-2000-2010.dwg
VPA - JCP - Program Implementation/Civil/Drafting/Benchmark Project/V181544-CI-DG-2037-2046.dwg

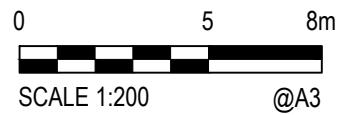


SECTION ELEVATION
SCALE 1:200



NOTE: REFER TO DRAWING NO. V170524-CI-DG-2003 FOR SECTION DETAILS

SIDE ELEVATION
SCALE 1:200



Rev	Date	Description	Des.	Verif.	Appd.
5	28/02/2019	ADDRESS STAKEHOLDER COMMENTS V.2.	CM		
4	04/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM		
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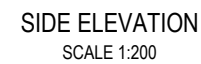
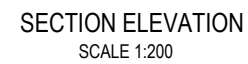
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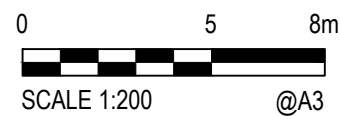
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Drawn NPV	Date 14/12/2017	Client VICTORIAN PLANNING AUTHORITY
Checked MEA	Date 14/12/2017	Project BENCH MARK INFRASTRUCTURE COSTING
Designed RVR	Date	
Verified	Date	
Approved	Date	
		Title ITEM 28 BOX CULVERT 1800X3000 CONNECTOR BOULEVARD ULTIMATE
		Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
		Scale 1:200
		Size A3
		Drawing Number V181544-CI-DG-2040
		Revision 5



NOTE: REFER TO DRAWING NO.V170524-CI-DG-2002 FOR SECTION DETAILS



	5	28/02/2019	ADDRESS STAKEHOLDER COMMENTS V.2.	CM	
	4	4/02/2019	ADDRESS STAKEHOLDER COMMENTS	CM	
	3	05/07/2018	ADDRESS VPA COMMENTS	CM	
	2	19/03/2018	ADDRESS VPA COMMENTS	VA	
	1	14/12/2017	PRELIMINARY ISSUE	RVR	
Rev	Date	Description		Des.	Verif. Appd.

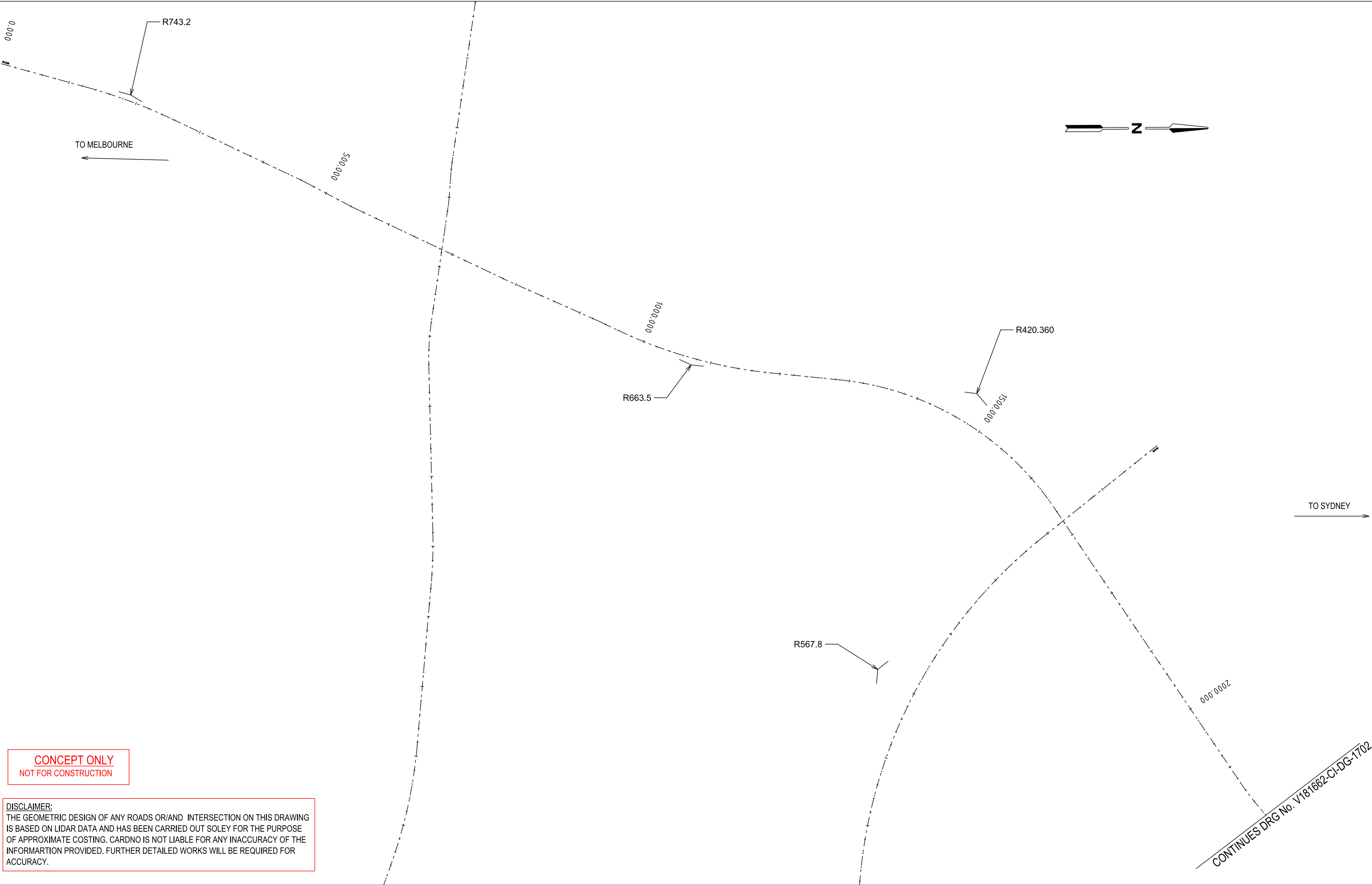
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Drawn NPV	Date 14/12/2017	Client VICTORIAN PLANNING AUTHORITY			
Checked MEA	Date 14/12/2017	Project BENCH MARK INFRASTRUCTURE COSTING	Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Designed RVR	Date			Scale 1:200	Size A3
Verified	Date		Drawing Number V181544-CI-DG-2043		
Approved	Date	Title ITEM 31 RCP 1200DN SECONDARY ARTERIAL INTERIM	Revision 5		



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Rev	Date	Description	Drawn	Appr.
7	13.09.23	FINAL CONCEPT DESIGN	IM	FA
6	16.02.23	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

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Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	CH 0 - CH 2200 RD03 - GEOMETRIC PLAN

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	1:5000
Drawing Number	V181662-CI-DG-1701	Sheet No.	Revision
			7

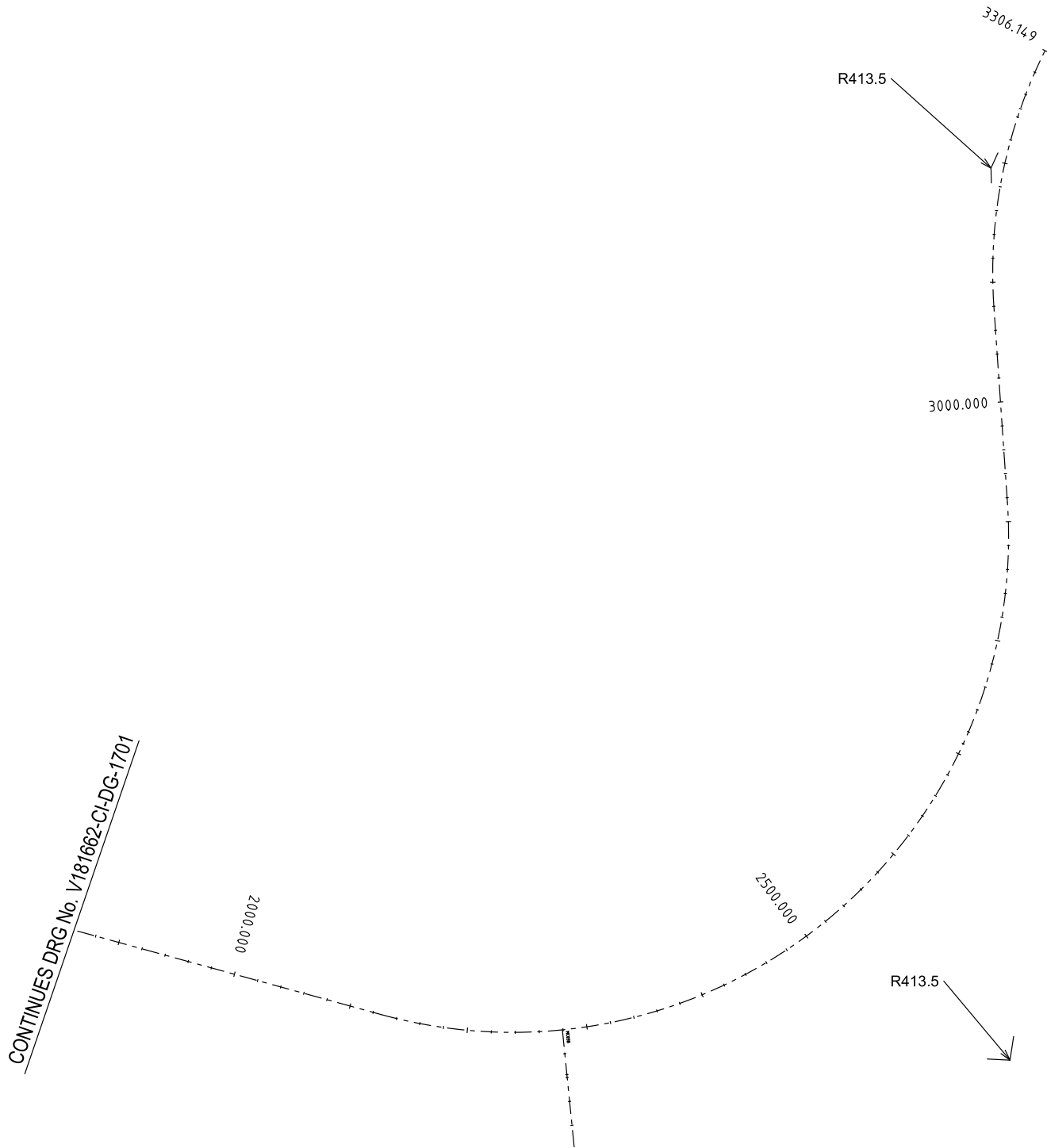
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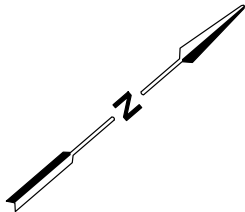
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Rev	Date	Description	Drawn	Appr.
7	13.09.23	FINAL CONCEPT DESIGN	IM	FA
6	16.02.23	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

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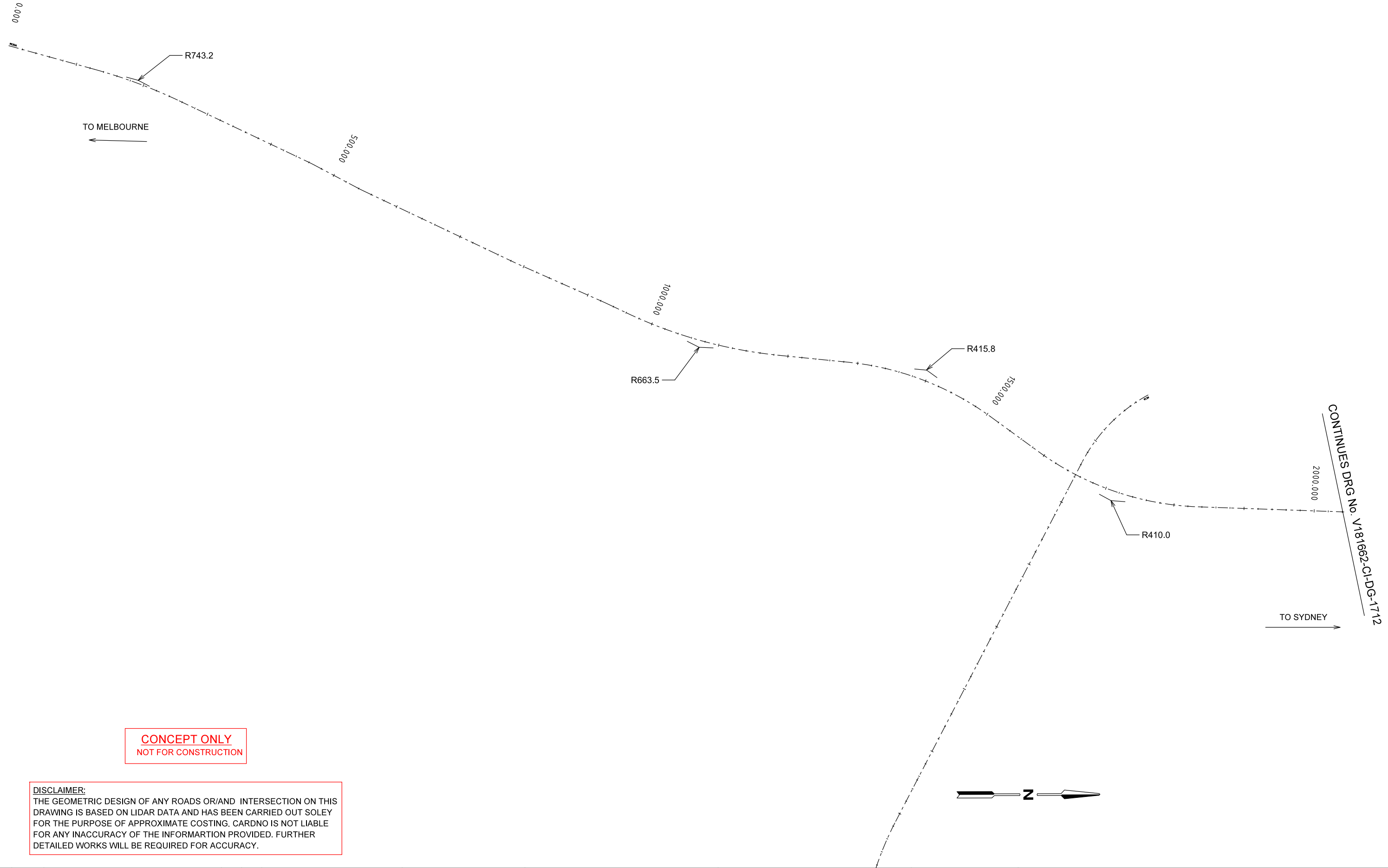
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Client	VICTORIAN PLANNING AUTHORITY		
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Title	CH 2200 - CH 4935.714 RD03B - GEOMETRIC PLAN		

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	1:5000
Drawing Number	V181662-CI-DG-1702	Sheet No.	7



3	13.09.23	FINAL CONCEPT DESIGN		IM	FA
2	22.04.22	FINAL CONCEPT DESIGN		SB	SP
1	19.02.22	NEW ALIGNMENT RD03A ADDED		SE	MOK
Rev	Date	Description		Drawn	Appr.

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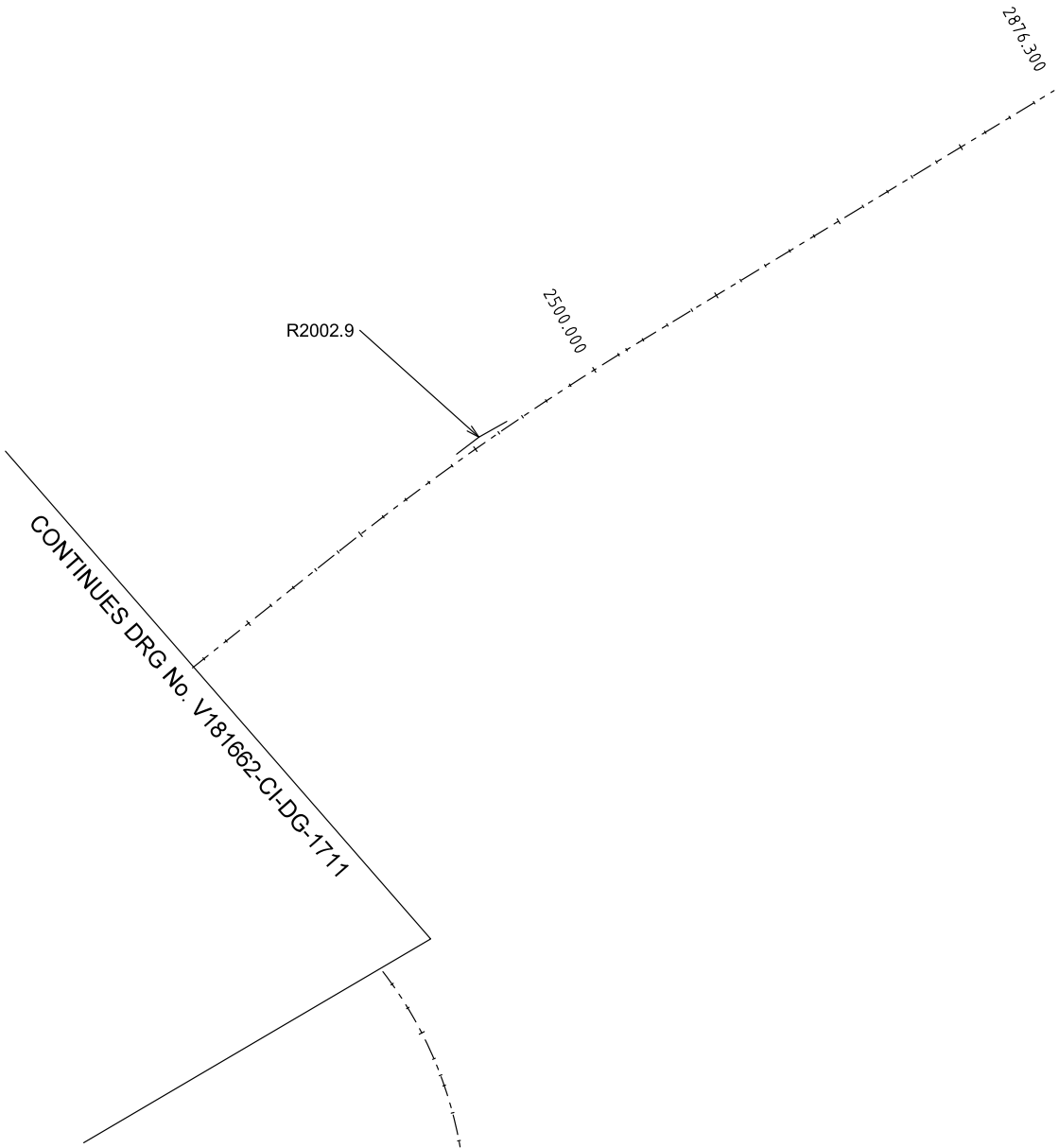
Drawn	S.ELIAS
Designed	S.BECKHAM
Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	CH 0 - CH 2200 RD03 - GEOMETRIC PLAN

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	1:5000
Drawing Number	V181662-CI-DG-1711	Sheet No.	3

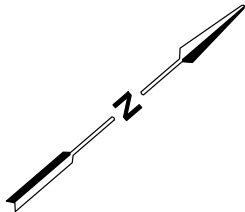
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Rev	Date	Description	Drawn	Appr.
3	13.09.23	FINAL CONCEPT DESIGN	IM	FA
2	22.04.22	FINAL CONCEPT DESIGN	SB	SP
1	19.02.22	NEW ALIGNMENT RD03A ADDED	SE	MOK

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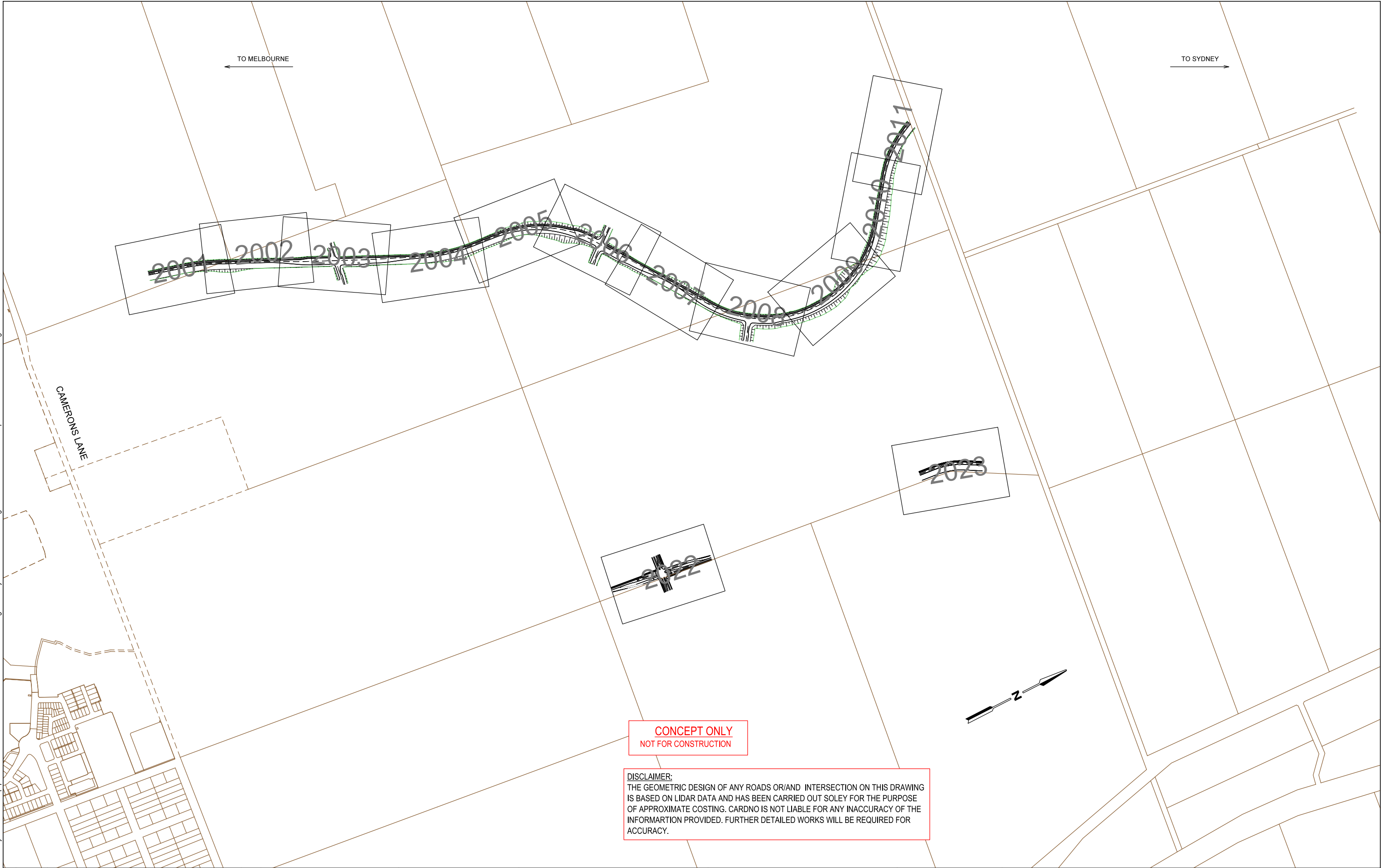
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Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	CH 2200 - CH 3378.695 RD03A - GEOMETRIC PLAN

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	1:5000
Drawing Number	V181662-CI-DG-1712	Sheet No.	3



Rev	Date	Description	Drawn	Appr.
7	13.09.23	FINAL CONCEPT DESIGN	IM	FA
6	13.10.22	REMEDIATED ALIGNMENT 3B	SB	DY
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

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Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	ALIGNMENT KEY PLAN RD03B & RD04

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	1:2500
Drawing Number	V181662-CI-DG-2000	Sheet No.	7

BY: _USER_

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NOTES:

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Rev	Date	Description	Drawn	Appr.
7	13.09.23	FINAL CONCEPT DESIGN	IM	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

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Designed S.BECKHAM	Project BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		Status PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES
Checked C.MENDOZA	Date 13.09.23	Scale 1:1000	Size A3
Authorised M.O.KHAN	Title RD03 - CH 0 - CH 250 ALIGNMENT PLAN	Drawing Number V181662-CI-DG-2001	Sheet No. Revision 7

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DATE PLOTTED: 13/09/2023 4:07:52 PM

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Designed	S.BECKHAM	Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Checked	C.MENDOZA	Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Authorised	M.O.KHAN	Date	13.09.23	Scale	0.736111
		Title	RD03 - CH 250 - CH 497 ALIGNMENT PLAN		
		Drawing Number	V181662-CI-DG-2002	Sheet No.	23
		Revision			7



NOTES:

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- INTERSECTION BASED ON BENCHMARK PROJECT INTERSECTION 09. REFER TO DRAWING V181544-CI-DG-2013/2014 FOR MORE DETAILS.

Rev	Date	Description	Drawn	Appr.
7	13.09.23	FINAL CONCEPT DESIGN	IM	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

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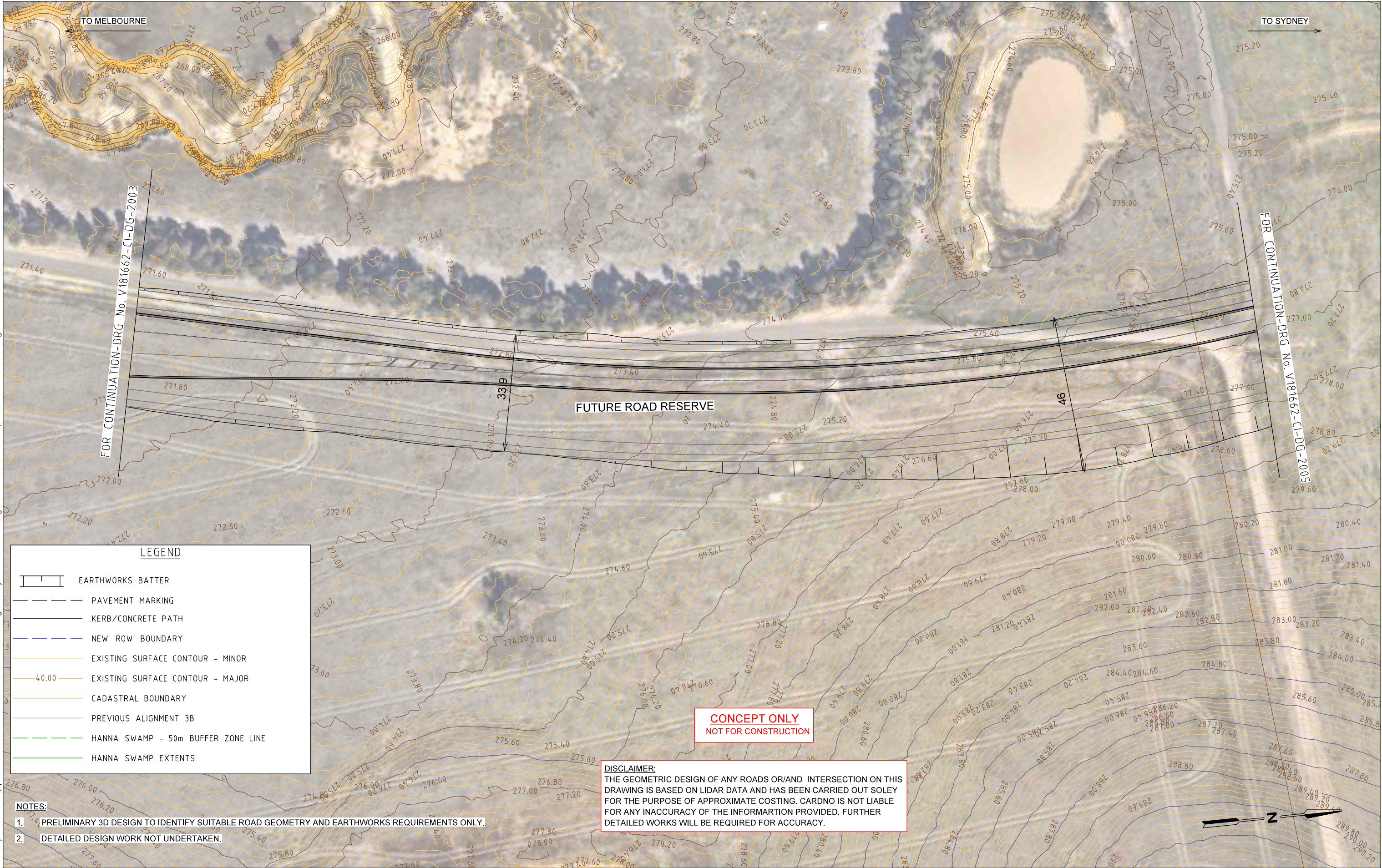
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Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY		
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Title	INTERSECTION - 05 RD03 - CH 497 - CH 873 ALIGNMENT PLAN		

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	0.736111
Drawing Number	V181662-CI-DG-2003	Sheet No.	24
Revision			7



Rev	Date	Description	Drawn	Appr.
7	13.09.23	FINAL CONCEPT DESIGN	IM	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA

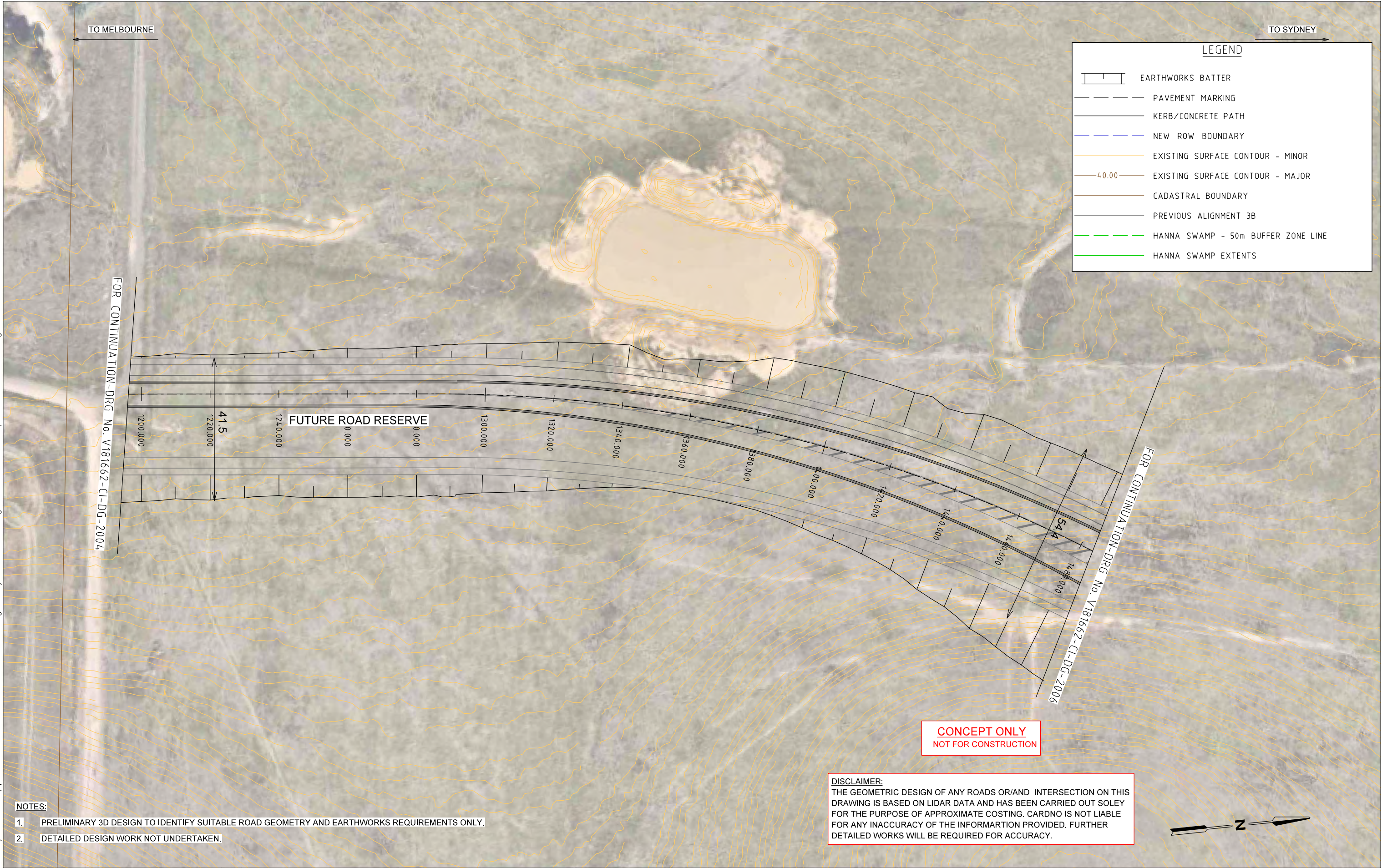
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Checked	C.MENDOZA
Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY		
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	0.736111
Size	A3		
Title	RD03 - CH 873 - CH 1205 ALIGNMENT PLAN		
Drawing Number	V181662-CI-DG-2004	Sheet No.	25
Revision			7



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8	13.09.23	FINAL CONCEPT DESIGN	IM	FA	
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA	
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA	
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP	
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK	
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC	
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH	
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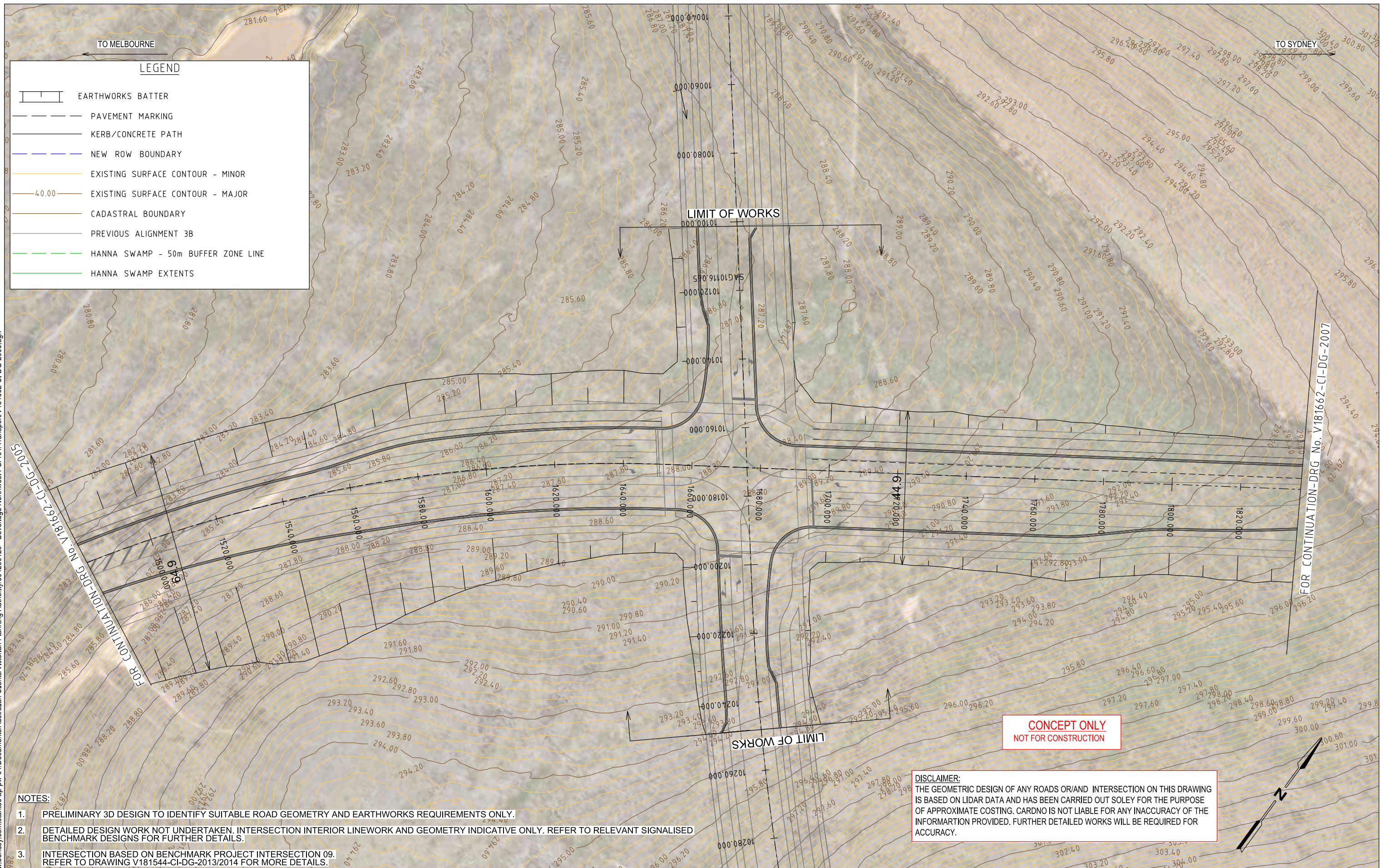
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Client	VICTORIAN PLANNING AUTHORITY		
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS		
Title	RD03 - CH 1205 - CH 1484 ALIGNMENT PLAN		

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	0.736111
Drawing Number	V181662-CI-DG-2005	Sheet No.	26
Revision			8



8	13.09.23	FINAL CONCEPT DESIGN	IM	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
2	23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
1	02.05.19	ISSUED FOR INFORMATION	NV	EA
Rev	Date	Description	Drawn	Appr.

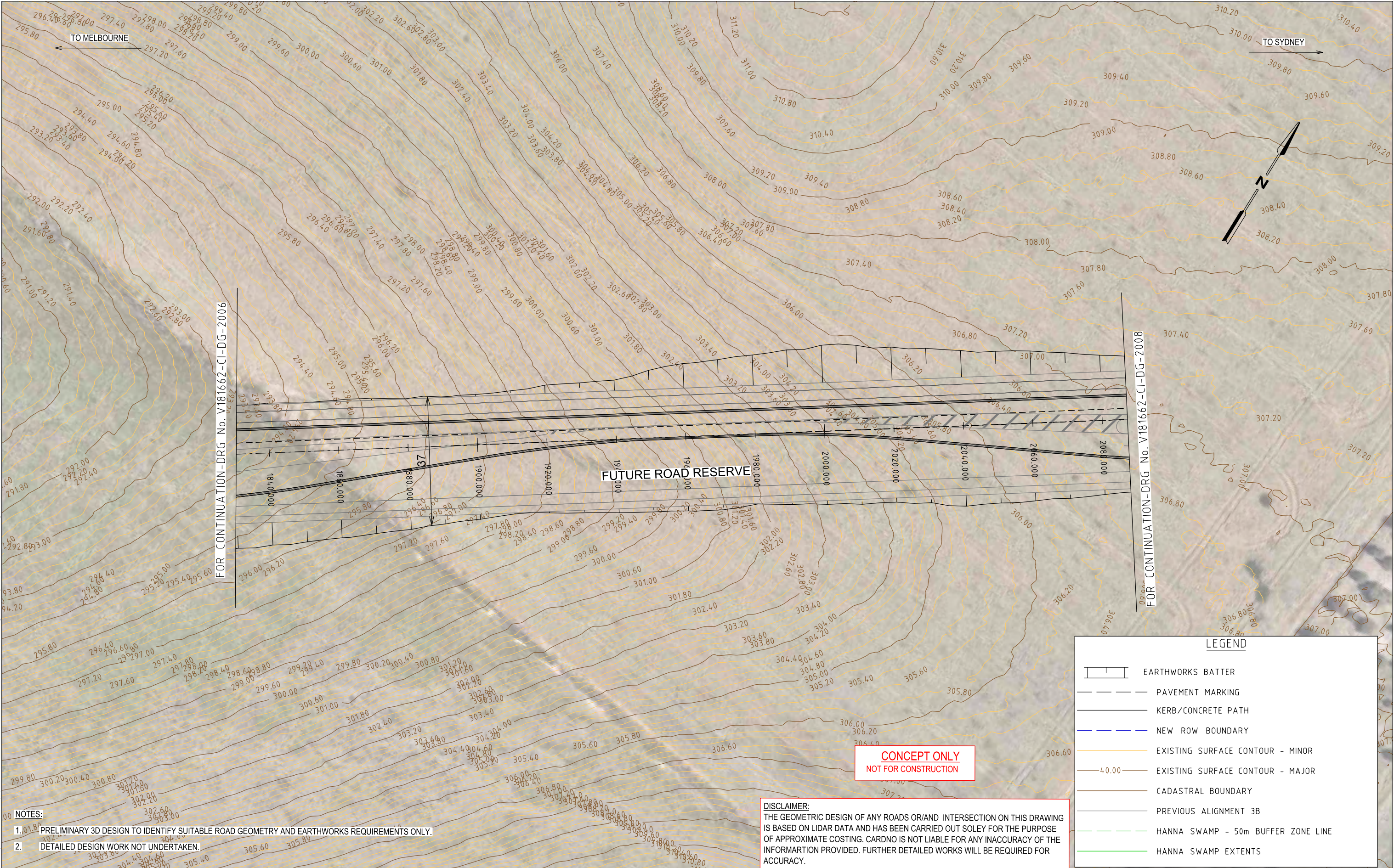
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Designed S.BECKHAM	Project BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS	Date 13.09.23
Checked C.MENDOZA	Title INTERSECTION - 06B RD03B - CH 1484 - CH 1860 ALIGNMENT PLAN	Scale 0.736111
Authorised M.O.KHAN	Drawing Number V181662-CI-DG-2006	Sheet No. 27
	Revision 8	



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Rev	Date	Description	Drawn	Appr.
9	13.09.23	FINAL CONCEPT DESIGN	IM	FA
8	28.03.23	IN-07 REVISION	SB	FA
7	16.02.23	ALIGNMENT 3B REVISION	SB	FA
6	15.11.22	ALIGNMENT 3B REVISION	SB	FA
5	22.04.22	FINAL CONCEPT DESIGN	SB	SP
4	07.03.22	ISSUED FOR INFORMATION	SE	MOK
3	31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
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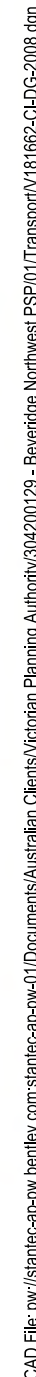
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Authorised	M.O.KHAN

Client	VICTORIAN PLANNING AUTHORITY
Project	BEVERIDGE NORTHWEST PSP INFRASTRUCTURE DESIGNS AND COSTINGS
Title	RD03B - CH 1860 - CH 2110 ALIGNMENT PLAN

Status	PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Date	13.09.23	Scale	0.736111
Drawing Number	V181662-CI-DG-2007	Sheet No.	28
Revision		Size	A3
		Revision	9



13.09.23	FINAL CONCEPT DESIGN	IM	FA
28.03.23	IN-07 REVISION	SB	FA
16.02.23	ALIGNMENT 3B REVISION	SB	FA
15.11.22	ALIGNMENT 3B REVISION	SB	FA
22.04.22	FINAL CONCEPT DESIGN	SB	SP
07.03.22	ISSUED FOR INFORMATION	SE	MOCK
31.10.21	ADDRESSING STAKEHOLDER COMMENTS	SE	PC
25.07.19	ADJUSTING EARTHWORKS GRADE	VA	FH
23.07.19	ADDRESSING STAKEHOLDER COMMENTS	YG	FH
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Checked C.MENDOZA			Date 13.09.23	Scale 0.736111	Size A3
Authorised M.O.KHAN	Title INTERSECTION - 07B RD03B - CH 2110 - CH 2500 ALIGNMENT PLAN		Drawing Number V181662-CI-DG-2008	Sheet No. 29	Revision 10