



Victorian Planning Authority

Sunbury Sth Lancefield Rd ICP Design and Costings

March 2021

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1. Introduction

1.1 Introduction

GHD were engaged by the Victorian Planning Authority (VPA) to prepare a report to update the Infrastructure Costing Plan (ICP) for the Sunbury South and Lancefield Road Precinct Structure Plans (PSP 1074 and PSP 1075) following the Planning Panel Conclaves.

Further to this report, GHD has updated the detailed design drawings and cost plans provided by the VPA with revised rates quantities based on updated design amendments and direction from the VPA and conclaves. GHD notes that not all drawings and quantities have been updated, only those that have been changed as a result of the Conclaves. GHD also notes that previous costings are to be considered superseded. Quantities and rates expressed in previous costings are not to be referred to or referenced unless directed by the VPA.

When reviewing this report, it is advised that the cost plans be read in conjunction with the Functional Design drawings.

1.2 Design Development

The Sunbury South and Lancefield Road Precinct Structure Plans (PSP 1074 and PSP 1075) can be considered the origin point of this project. Prepared by the VPA in consultation with Hume City Council and with the assistance of relevant government agencies, service authorities and major stakeholders. The PSPs are a long-term plan for urban development, describing how the land is expected to be developed, and how and where services are planned to support development.

Following the formulation of PSP 1074 and PSP 1075, Aurecon were engaged in 2015 to prepare a concept drawing package, associated cost estimates and report for five grade separations and/or bridges associated with the PSPs. This design package references a study completed by GTA Consultants which established road widths and conceptual road alignments.

Further to Aurecon's involvement with the project, Parsons Brinckerhoff were later engaged in 2016 to further develop the work completed by Aurecon and undertake an infrastructure design study of the same PSP areas. High level, 2-dimensional concept designs were developed for numerous road and intersection projects using elements of the previous designs completed by GTA, Aurecon and Hume City Council as a base.

The desired lane arrangement for each intersection was provided by the VPA. The road alignments used were drawn from those established by GTA, Aurecon, Hume City Council and from those identified in the Future Urban Structure Plan as supplied by the VPA. In some cases, the alignments were adjusted slightly to conform to the basis of design as established by VicRoads, Hume City Council and the VPA.

GHD consolidated the previous reports and made a number of updates to the design and cost plans which were summarised in a report dated November 2019.

The ICP was advertised for public consultation in 2020. The Planning Panel was adjourned in November 2020 to enable the VPA to respond to submitters. The subject of this report responds to design considerations raised by submitters throughout the Panel Hearing

1.3 Scope and limitations

This report has been prepared by GHD for Victorian Planning Authority and may only be used and relied on by Victorian Planning Authority as advice for the infrastructure items to be funded under the Sunbury South PSP and Lancefield Road PSP Infrastructure Contributions Plan.

GHD otherwise disclaims responsibility to any person other than Victorian Planning Authority arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared

GHD has prepared the preliminary cost estimate set out in attached document to this report ("Cost Estimate") using information reasonably available to the GHD employee(s) who prepared this report; and based on assumptions and judgments made by GHD (refer to section 5).

The Cost Estimate has been prepared for the purpose of understanding high level costs associated with the development and must not be used for any other purpose.

The Cost Estimate is a preliminary estimate only. Actual prices, costs and other variables may be different to those used to prepare the Cost Estimate and may change. Unless as otherwise specified in this report, no detailed quotation has been obtained for actions identified in this report. GHD does not represent, warrant or guarantee that the works can or will be undertaken at a cost which is the same or less than the Cost Estimate.

Where estimates of potential costs are provided with an indicated level of confidence, notwithstanding the conservatism of the level of confidence selected as the planning level, there remains a chance that the cost will be greater than the planning estimate, and any funding would not be adequate. The confidence level considered to be most appropriate for planning purposes will vary depending on the conservatism of the user and the nature of the project. The user should therefore select appropriate confidence levels to suit their particular risk profile.

2. VPA supplied information

Table 1 below is a summary of information provided by the VPA including drawings, reports and other sources of information that has informed this updated report. GHD has also been provided additional information verbally, via email and through directions in meetings that has been utilised in the preparation of the designs and cost plans. Please refer to Appendix B for full copies.

Table 1 Summary of VPA Information

Description	Author	Date
Northern Roads Upgrade Project – Issue for Tender Drawings	Major Roads Projects Authority	6 December 2018
Conclave Summary Final	Rob Howard Mark Bruer Mark Fleming Stephen Watters Lance Weatherall Mark Whalen	27 October 2020
Expert Witness Report	Spiire	8 October 2020
Expert Witness Report	SMEC	14 October 2020
Sunbury Growth Corridor - Jackson Creek Northern Bridge Removal	GTA Consultants	21 December 2020
GTA Memo regarding ultimate design SS-IN-03	GTA Consultants	March 2021

3. Relevant drawings

Table 3 is a summary of the final concept design drawings that provides relevant detail for all infrastructure items captured; refer Appendix A for drawings.

The naming convention for the drawing titles is explained in Table 2 below:

Table 2 Naming Conventions

Component	Explanation	Comment
LR	Lancefield Road	
SS	Sunbury South	
IN (IT)	Intersection	IT updated to IN as requested by VPA for latest revision
BR (BD)	Bridge	BD updated to BR as requested by VPA for latest revision
RD	Roads	

Table 3 Drawing Index

Drawing number	Scope item	Designer
CIV-0100	Title Sheet	GHD
CIV-0101	Drawing Index	GHD
CIV-0201	Sections	PB
CIV-0202	Sections	PB
CIV-0203	Sections	GHD
CIV-0204	Sections	GHD
CIV-0205	Sections	PB
CIV-0300	Vehicle Swept Path SS-RD-07	GHD
CIV-0400	Long Sections	GHD
CIV-0401	Long Sections	GHD
CIV-0501	Lancefield Road PSP	GHD
CIV-0502	Sunbury South PSP	GHD
CIV-1000	LR-RD-01	GHD
CIV-1001	LR-RD-01/LR-IT1	PB
CIV-1002	LR-RD-01/LR-IN-02	GHD
CIV-1004	LR-RD-01/LR-IT3	PB
CIV-1006	LR-RD-01/LR-IT4	PB
CIV-1020	LR-RD-02	GHD
CIV-1023	LR-RD-02	GHD
CIV-1030	LR-RD-03/LR-RD-04	GHD
CIV-1032	LR-RD-03	GHD

Drawing number	Scope item	Designer
CIV-1033	LR-RD-04/LR-IN-06	GHD
CIV-1100	SS-RD-02	GHD
CIV-1101	SS-RD-02/SS-IN-04	GHD
CIV-1102	SS-RD-02/SS-IN-03	GHD
CIV-1103	SS-RD-02/SS-IN-02	GHD
CIV-1104	SS-RD-02/SS-IN-01	GHD
CIV-1110	SS-RD-01	GHD
CIV-1111	SS-RD-01/SS-IN-12	GHD
CIV-1112	SS-RD-01/SS-IN-08	GHD
CIV-1120	SS-RD-03	GHD
CIV-1121	SS-RD-03/SS-IN-07	GHD
CIV-1122	SS-RD-03/SS-IN-05	GHD
CIV-1130	SS-RD-04	GHD
CIV-1131	SS-RD-04/SS-IN-09	GHD
CIV-1132	SS-RD-04	GHD
CIV-1133	SS-RD-04/SS-IN-10	GHD
CIV-1134	SS-RD-04	GHD
CIV-1135	SS-RD-04	GHD
CIV-1136	SS-RD-04	GHD
CIV-1140	SS-RD-05	GHD
CIV-1141	SS-RD-05/SS-IN-09	GHD
CIV-1142	SS-RD-05	GHD
CIV-1143	SS-RD-05/SS-IN-14	GHD
CIV-1151	SS-RD-06	GHD
CIV-1160	SS-RD-07	GHD
CIV-1161	SS-RD-07	PB
CIV-1162	SS-RD-07/SS-IN-14	GHD
CIV-1163	SS-RD-07/SS-IN-13	GHD
CIV-1164	SS-RD-07/SS-IN-15	GHD
CIV-1170	SS-RD-08	GHD
CIV-1171	SS-RD-08/SS-IN-15	GHD
CIV-1172	SS-RD-08	GHD
CIV-1173	SS-RD-08/SS-IN-11	GHD
CIV-1501	LR-IT1	PB
CIV-1502	LR-IN-01	GHD
CIV-1503	LR-IT3	PB
CIV-1504	LR-IT4	PB

Drawing number	Scope item	Designer
CIV-1601	SS-IN-01	GHD
CIV-1602	SS-IN-02	GHD
CIV-1603	SS-IN-03	GHD
CIV-1604	SS-IN-04	GHD
STR-0102	SS-BR-01	GHD
STR-0103	SS-BR-01	GHD
CIV-2015	Retaining Wall Detail	GHD

4. GHD design changes scope

4.1 Background

GHD has undertaken design changes based on the information in Table 1 for Sunbury South and Lancefield Road PSP's road layout and cost estimates.

A summary of GHD's scope is outlined in Table 4 below.

Table 4 Scope items

Item	Project	Description
1	All	Update relevant rates for excavation and disposal of rock to \$55 as agreed in the conclave
2	LR-BR-01	Remove from ICP
3	LR-RD-01B	Remove from ICP
4	LR-RD-02A	Remove from ICP
5	LR-IN-01	Update design and cost sheet to include items identified in SMEC Expert Witness Update cost plan to include additional utility relocations agreed at costing conclave Update cost plan to include stormwater culvert as agreed at costing conclave Update interim design to show taper back to existing carriageway
6	LR-IN-02	Update cost plan to include additional utility relocations agreed at costing conclave Update design and cost sheet to include items identified in SMEC Expert Witness
7	LR-IN-03	Update cost plan to include additional utility relocations agreed at costing conclave Update current interim design to align with GTA report (dated - 21/12/2020) recommendations
8	LR-IN-04	Update cost plan to include additional utility relocations agreed at costing conclave Update current interim design to align with GTA report (dated - 21/12/2020) recommendations
9	SS-IN-08	Update cost plan to include additional utility relocations agreed at costing conclave Update interim design to show taper back to existing carriageway
10	SS-IN-11	Update cost plan to rectify typographical error in previous report for quantity of item 1.2.1 Cut and Disposal
11	SS-IN-12	Update cost plan to include additional utility relocations agreed at costing conclave
12	SS-IN-01	Update central median of ultimate and interim designs, and associated land-take and costs, to align with DoT proposed designs
13	SS-IN-02	Update central median of ultimate and interim designs, and associated land-take and costs, to align with DoT proposed designs

Item	Project	Description
14	SS-IN-03	Update cost plan to include additional utility relocations agreed at costing conclave Update current interim design to align with GTA report (dated - 21/12/2020) recommendations Update to current ultimate design to respond to GTA Memo (March 2021) recommendations
15	SS-IN-04	Update cost plan to include additional utility relocations agreed at costing conclave
16	SS-BR-01	Provide design and costs of two feasible alternative bridge designs with varied bridge typologies and vertical alignments.
17	SS-BR-03	Amend bridge typology from culvert to concrete single span as per Melbourne Water requirements.

4.2 SS-BR-04 Bendigo Rail line Bridge

No proposed amendments were required to SS-BR-04 following the Planning Panel hearings.

4.3 LR-BR-01

The traffic conclave concluded that LR-BR-01 is not essential to the functioning of the transport network and should be removed from the ICP. The item has been removed from this report to reflect this change.

4.4 SS-BR-01

Submitters to the Planning Panel had proposed a number of alternative designs and alignments for SS-BR-01, which provided the same functionality but could be delivered at a lower cost to developers. GHD reviewed the proposed alternatives to ascertain if any of the nominated alternatives were feasible.

The proposals included a number of alternative alignments which sought to reduce the overall length and height of the bridge. A number of these alternative routes encroached on the environmental overlays at the site and were not deemed acceptable by DELWP's MSA Team. VPA advised the current alignment is to be maintained.

A second proposal was to amend the vertical alignment of the bridge to shorten the overall span. GHD reviewed the proposed vertical geometry of SS-BR-01 and was able to reduce the overall length of the bridge from 315m to 280m. The redesign also reduced the overall height of the bridge by approximately 5m from 43m to 38m. The proposed reduction in length and height reduces the overall cost of delivery by approximately \$6.7 million.

The third proposal was to mix the bridge typologies of concrete super T and steel box girder. The proposal was to include a section of steel box girder at the centre of the bridge which can span up to 50m as opposed to the concrete super T span of 35m. This option reduced the number of pylons required to support the bridge, however the higher rate for construction of the steel box girder (\$4,450 per sq.m) as opposed to the concrete super T (\$2,450 per sq.m) offset these cost savings.

A summary of the cost comparisons is outlined in Table 5 below showing the differential between a full concrete and a concrete with steel box girder section. The full concrete option is still approximately \$1.7million cheaper and is the design that has been adopted.

Table 5 Bridge cost comparison

Item	Typology	Cost
1	Concrete Super T 315m (previously exhibited)	\$41,735,842
2	Concrete Super T 280m	\$35,006,298
3	Concrete Super T with Steel Box Girder Section 280m	\$36,763,553

5. Cost summary

GHD has prepared the cost plans with revised quantities based on updated design amendments and direction from the VPA based on Conclave statements and information contained in Table 1. All previous costing calculations are to be considered outdated and superseded. Reasonable and verifiable assumptions have been carried forward from previous reports.

A summary of the overall development costs is captured in Table 6 below. Individual projects including intersection, road and bridge cost sheets have been attached in Appendix C.

Table 6 Overall development costs

Sunbury South			
ROADS SEGMENTS			
	Construction Costs (excl GST)	Other Project Costs (excl GST)	Total (excl GST)
SS-RD-04-01	\$10,803,583	\$4,456,478	\$15,260,061
SS-RD-04-02	\$4,497,464	\$1,855,204	\$6,352,668
SS-RD-04-03	\$8,137,724	\$3,356,811	\$11,494,536
SS-RD-04-04	\$2,479,366	\$1,022,739	\$3,502,105
SS-RD-04-05	\$12,211,446	\$5,037,221	\$17,248,667
SS-RD-05	\$4,296,855	\$1,772,453	\$6,069,308
SS-RD-06	\$2,964,886	\$1,223,016	\$4,187,902
SS-RD-07	\$7,071,877	\$2,917,149	\$9,989,026
SS-RD-08	\$3,288,136	\$1,356,356	\$4,644,492
SS-RD-09	\$2,435,924	\$1,004,819	\$3,440,743
SUB-TOTAL	\$58,187,262	\$24,002,246	\$82,189,508
INTERSECTIONS			
SS-IN-01	\$5,685,541	\$2,345,286	\$8,030,826
SS-IN-02	\$5,929,953	\$2,446,106	\$8,376,058
SS-IN-03	\$7,782,490	\$3,210,277	\$10,992,768
SS-IN-04	\$5,487,841	\$2,263,734	\$7,751,575
SS- IN-05	\$3,431,439	\$1,415,469	\$4,846,907
SS- IN-07	\$3,638,548	\$1,500,901	\$5,139,449
SS- IN-08	\$4,278,536	\$1,764,896	\$6,043,433
SS- IN-09	\$6,275,352	\$2,588,583	\$8,863,934
SS-IN-10	\$3,669,728	\$1,513,763	\$5,183,491
SS-IN-11	\$1,004,846	\$414,499	\$1,419,344
SS-IN-12	\$3,771,952	\$1,555,930	\$5,327,882
SS-IN-13	\$1,044,815	\$430,986	\$1,475,802
SS-IN-14	\$1,044,815	\$430,986	\$1,475,802
SS-IN-15	\$645,334	\$266,200	\$911,534
SUB-TOTAL	\$53,691,189	\$22,147,615	\$75,838,804

Sunbury South			
BRIDGES			
SS-BR-01	\$23,613,017	\$11,393,280	\$35,006,297
SS-BR-02	\$2,053,540	\$929,227	\$2,982,767
SS-BR-03	\$1,711,581	\$774,490	\$2,486,071
SS-BR-04	\$10,695,005	\$6,550,690	\$17,245,695
SUB-TOTAL	\$38,073,143	\$19,647,687	\$57,720,830
Lancefield Road			
ROAD SEGMENTS			
LR-RD-02-03A	\$3,984,103	\$1,643,443	\$5,627,546
LR-RD-02-03B	\$3,698,030	\$1,525,437	\$5,223,467
LR-RD-03	\$1,934,607	\$798,025	\$2,732,632
LR-RD-04	\$2,856,206	\$1,178,185	\$4,034,391
SUB-TOTAL	\$12,472,946	\$5,145,090	\$17,618,036
INTERSECTIONS			
LR- IN-01	\$5,667,398	\$2,337,802	\$8,005,199
LR- IN-02	\$5,000,164	\$2,062,568	\$7,062,732
LR- IN-03	\$5,100,119	\$2,103,799	\$7,203,918
LR- IN-04	\$4,978,482	\$2,053,624	\$7,032,105
LR- IN-06	\$367,083	\$151,422	\$518,505
SUB-TOTAL	\$21,113,246	\$8,709,214	\$29,822,460
BRIDGES			
LR-BR-02	\$5,069,696	\$3,105,189	\$8,174,885
LR-BR-03	\$4,824,350	\$2,954,914	\$7,779,264
SUB-TOTAL	\$9,894,046	\$6,060,103	\$15,954,149
TOTAL	\$193,431,832	\$85,711,955	\$279,143,787

5.1 Cost assumptions

The following assumptions have been taken into consideration within each high-level cost estimate:

- The cost estimates assume a traditional lump sum competitively tendered procurement method
- The cost estimates are based on carrying out the works during normal working hours
- The cost estimates assume road works outside the alignments for each option are excluded
- Cost template was supplied by the VPA
- Road pavement profile has been assumed to be 685mm deep to reflect Hume City Council Trunk Collector Street detail, refer Hume Standard Drawing SD06. Due to the limited geotechnical information, this pavement depth also reflects an insitu subgrade CBR value of 2%
- Earthwork volumes for pedestrian footpaths or similar have been added to the cut and fill values. The bulk cut and fill quantities allowed in the estimate will need to be tested and revised subsequent to further analysis and design

- Where batters have been designed the calculated cut and fill values have been added to the volumes used in the cost estimates
- Rock excavation and disposal rates are based upon the agreed rate of \$55 per cu.m from the costing conclave
- Allowances for utility relocations were derived from the costings conclave which agreed to adopt the rates from in SMEC's Expert Witness Report
- Preliminary vertical road design was completed on roads SS-RD-04, SS-RD-05, SS-RD-06, LR-RD-02-02, LR-RD-02-03 and LR-RD-03 only, using previous design inputs from GTA, Aurecon and WSP
- Earthworks quantities for GHD designed elements were calculated using a 3D model created for roads SS-RD-04, SS-RD-05, SS-RD-06, LR-RD-02-02, LR-RD-02-03 and LR-RD-03. Cut and fill volumes were calculated using 3d design software (12d Model) by comparing two elevation surfaces: the design surface (vertical geometry, including road cross sections and batter interfaces) and existing surface (constructed from LIDAR data provided by VPA)
- Cut and fill quantities are based upon insitu volumes, no bulking factors have been applied to excavated soil quantities
- Bridge cost estimates exclude all civil and retaining wall works associated with the approaches unless noted otherwise. These works have been included in the adjacent road cost estimates
- GHD has made no allowance for contaminated material.
- Street lighting poles 12m high with luminaries placed every 50m along roads to one side, unless noted otherwise
- An allowance for traffic signals has been made based on type and size of intersection at locations
- Rates used in the cost estimates are based on recent project data and benchmarked rates for concept cost estimates for projects of a similar nature in the Melbourne region unless noted otherwise
- Cost estimates are based on the information provided to GHD and knowledge of similar projects. The costs used for calculations have been validated via an external third party
- All structural rates are high level allowances based on concept drawings. Adjustments to structural rates upon further structural design developments are anticipated
- The cost review assumes that a structured cost planning / value engineering process will be followed throughout the design process and that the project will be appropriately documented prior to tender
- No flood modelling has been incorporated into the costing allowance for bridges that appear in the cost sheets
- LR-BR-03 consists of a bridge over existing rail, LIDAR data advises that the current rail level is approximately 5-6m below the adjacent land. Therefore GHD has made minimal allowance for fill to the bridge approach to meet the required 5.75m clearance stipulated by Transport for Victoria

- Road design has been completed using AutoCAD software, the software has also been utilised to derived road lengths which have been measured along the road centre line from intersection to intersection, intersection to bridge structure and precinct boundary to intersection as applicable. Road project lengths and chainages are detailed in Appendix G for South Sunbury and Appendix H for Lancefield Road
- Intersection extents are defined at the earliest point where a road layout differs from the typical road layout, such as the start of a turn lane
- Retaining walls details are based on the soil nail retaining wall detail prepared by WSP in their Memo Sunbury South and Lancefield Road PSP – Infrastructure cost estimates, dated 28 April 2017
- Habitat compensation fees were provided by the VPA following receipt of advice from DELWP
- Along road alignments, batters have been substituted for retaining wall when batter widths exceed 20m perpendicular to the edge of pavement works. Further design refinement and value engineering will be required to identify the optimal design
- All other assumptions have been noted in the cost estimates for each option

6. Design assumptions

The following design standards and reference documents (versions current as of July 2018) have been used in this investigation:

- Austroads Guide to Road Design (AGRD) and corresponding VicRoads supplements
- Engineering Design and Construction Manual (VPA April 2011)
- VicRoads Standard Specification for Roadworks and Bridgeworks.
- Growth Area Road Network Planning – Guidance and Policy Principles (VicRoads – working document)

The design speeds adopted are outlined in Table 7 below

Table 7 Adopted design speeds

Road type	Posted speed limit	Design speed	Reference
Connector Boulevard	60 km/h	60 km/h	Growth Area Road Network Planning – Guidance and Policy Principles
Connector Street	60 km/h	60 km/h	Growth Area Road Network Planning – Guidance and Policy Principles
Arterial (primary)	60 km/h	60 km/h	Growth Area Road Network Planning – Guidance and Policy Principles

Horizontal geometry design inputs are outlined in Table 8 below

Table 8 Horizontal geometry design inputs

Criteria	Value	Comment	Reference
Minimum radius for adverse cross fall	60 km/h = 200 m 80 km/h = 500 m	Urban Side friction factor = 0.17 Urban Side friction factor = 0.13	VicRoads Supplement to AGRD, Part 3, Table V7.2
Minimum radius for horizontal curves with superelevation	60 km/h = 98 m 80 km/h = 240 m	Desirable min. friction factor	AGRD, Part 3, Table 7.5
Minimum horizontal curve length	60 km/h = 100 m 80 km/h = 180 m		AGRD, Part 3, Table 7.6
Merge taper length	100 m (60 km/h) 130 m (80 km/h)		AGRD Part 3 Table 9.8

The design vehicles for intersections have not been changed from PB's early assumptions of the following, based on Austroads Design Vehicles and Turning Path Templates Guide:

- Arterial/ Arterial - Prime mover and semi-trailer (19 m)
- Arterial/Collector (Connector) - Single unit truck/bus (12.5 m)
- Collector/Collector (Connector/Connector) - Single unit truck/bus (12.5 m)

Intersection turn lane lengths have been adopted from table 4.1 within the Growth Area Road Network Planning – Guidelines & Policy Principles, as outlined in Table 9 below.

Table 9 Intersection turn lengths

Road type	Turn lane	Assumed volumes	Total turn land length (incl taper)
Primary Arterial	Left	400 veh/hr	100m (incl 25m taper)
	Single Right	200 veh/hr	200m (incl 25m taper)
	Double Right	400 veh/hr	170m (incl 55m taper)
Secondary Arterial	Left	400 veh/hr	100m (incl 20m taper)
	Right	200 veh/hr	200m (incl 20m taper)
Connector Street	Left	500 veh/hr	100m (incl 15m taper)
	Right	500 veh/hr	100m (incl 30m taper)

Vertical geometry adopted in the design is outlined in Table 10 below.

Table 10 Vertical geometry

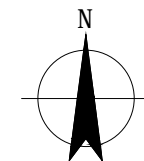
Vertical geometry limits	Value	Comment	Reference
Minimum k value for a crest curve	60 km/h = 11.8 80 km/h = 29.3	Desirable minimum value for a 2.0s reaction time (2.5s is not available for these speeds)	AGRD, Part 3, Table 8.7
Minimum k value for a sag curve	60 km/h = 10 80 km/h = 17	Other Urban and Rural Roads without street lighting	AGRD, Part 3, Figure 8.7
Minimum longitudinal grade	1%	Desirable minimum value for drainage purposes	AGRD, Part 3, Table 8.5
Maximum longitudinal grade	60 km/h = 7-9% 80 km/h = 5-7%	Rolling Terrain	AGRD Part 3 Table 8.3

The geometry for road batters listed below has been reproduced from previously generated road cross-sections. The batter slope may not be applicable along all roads due to soil conditions on site. The grades will need to be reviewed following receipt of further detailed site specific geotechnical information.

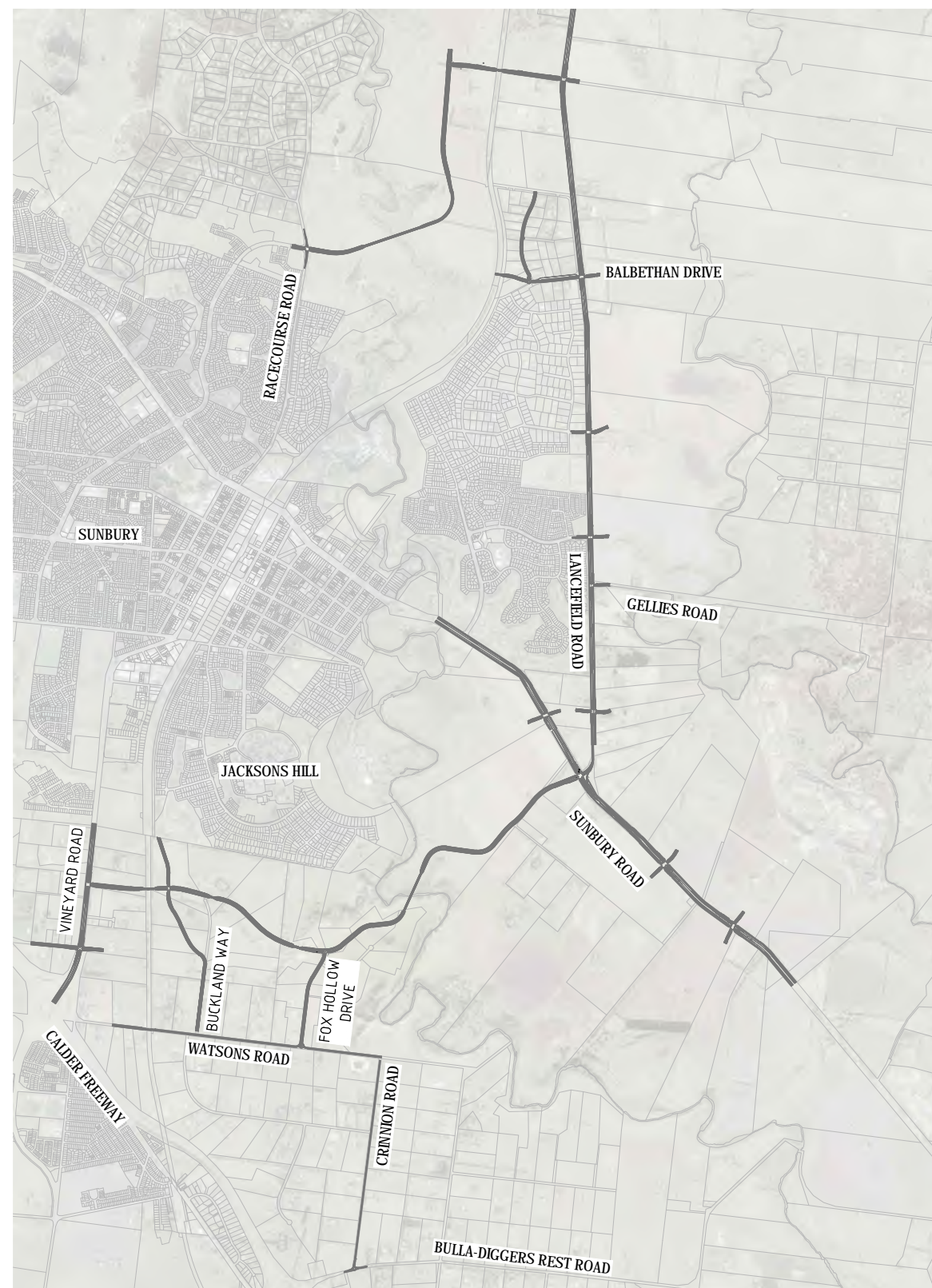
- Fill batters – 6:1
- Cut batters – 3:1

Appendices

Appendix A – Current Drawings



SUNBURY SOUTH AND LANCEFIELD ROAD PSP INFRASTRUCTURE DESIGN STUDY



LOCATION PLAN



WARNING
SERVICES SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY. THE EXACT LOCATION IS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.

F	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	06.08.19	
E	RE-ISSUED FOR INFORMATION - GHD	DAC	LM*	MW*	02.08.18	
D	LR-RD2 AND LR-BD1 ALIGNMENT UPDATED	GW	-	-	01.05.17	
C	COVER SHEET UPDATED	GW	-	-	15.12.16	
B	UPDATED LOCATION PLAN WITH LATEST LAYOUT	DH	-	-	30.06.16	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Approved (Project Director) Date	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

PRELIMINARY	GHD Drawing No. 31-36206-CIV-0100		
Project Title	SUNBURY STH AND LANCEFIELD RD PSP TITLE SHEET		
Original Size	Drawing No:	2113308A-CIV-0100	Rev: F

DRAWING INDEX

GENERAL

2113308A - CIV - 0100	TITLE SHEET
2113308A - CIV - 0101	DRAWING INDEX AND LEGEND

TYPICAL SECTIONS

2113308A - CIV - 0201	SHEET 1
2113308A - CIV - 0202	SHEET 2
2113308A - CIV - 0203	SHEET 3
2113308A - CIV - 0204	SHEET 4
2113308A - CIV - 0205	SHEET 5

SWEPTH PATHS

31 - 36206 - CIV - 0300	VEHICLE TURNING MOVEMENTS - WATSONS RD (SS-RD-07)
-------------------------	---

LONGITUDUNAL SECTION (SS-RD-04)

2113308A - CIV - 0400	SHEET 1
2113308A - CIV - 0401	SHEET 2

OVERALL LAYOUT PLANS

2113308A - CIV - 0501	LANCEFIELD ROAD PSP
2113308A - CIV - 0502	SUNBURY SOUTH PSP

ALIGNMENT PLANS - ULTIMATE LAYOUT

LANCEFIELD ROAD (LR-RD-01)

2113308A - CIV - 1000	LAYOUT PLAN
2113308A - CIV - 1001	SHEET 1
2113308A - CIV - 1002	SHEET 2
2113308A - CIV - 1003	SHEET 3
2113308A - CIV - 1004	SHEET 4
2113308A - CIV - 1005	SHEET 5
2113308A - CIV - 1006	SHEET 6
2113308A - CIV - 1007	SHEET 7

LR-RD-02

2113308A - CIV - 1020	LAYOUT PLAN
2113308A - CIV - 1021	SHEET 1
2113308A - CIV - 1022	SHEET 2
2113308A - CIV - 1023	SHEET 3
2113308A - CIV - 1024	SHEET 4
2113308A - CIV - 1025	SHEET 5

BALBETHAN DRIVE / STOCKWELL DRIVE (LR-RD-03 / LR-RD-04)

2113308A - CIV - 1030	LAYOUT PLAN
2113308A - CIV - 1032	SHEET 2
2113308A - CIV - 1033	SHEET 3

SUNBURY ROAD (SS-RD-02)

2113308A - CIV - 1100	LAYOUT PLAN
2113308A - CIV - 1101	SHEET 1
2113308A - CIV - 1102	SHEET 2
2113308A - CIV - 1103	SHEET 3
2113308A - CIV - 1104	SHEET 4
2113308A - CIV - 1105	SHEET 5
2113308A - CIV - 1106	SHEET 6
2113308A - CIV - 1107	SHEET 7

LANCEFIELD ROAD (SS-RD-01)

2113308A - CIV - 1110	LAYOUT PLAN
2113308A - CIV - 1111	SHEET 1
2113308A - CIV - 1112	SHEET 2

VINEYARD ROAD (SS-RD-03)

2113308A - CIV - 1120	LAYOUT PLAN
2113308A - CIV - 1121	SHEET 1
2113308A - CIV - 1122	SHEET 2

SS-RD-04

2113308A - CIV - 1130	LAYOUT PLAN
2113308A - CIV - 1131	SHEET 1
2113308A - CIV - 1132	SHEET 2
2113308A - CIV - 1133	SHEET 3
2113308A - CIV - 1134	SHEET 4
2113308A - CIV - 1135	SHEET 5
2113308A - CIV - 1136	SHEET 6

BUCKLAND WAY/JACKSONS HILL LINK (SS-RD-05)

2113308A - CIV - 1140	LAYOUT PLAN
2113308A - CIV - 1141	SHEET 1
2113308A - CIV - 1142	SHEET 2
2113308A - CIV - 1143	SHEET 3

WATSONS ROAD (SS-RD-06)

2113308A - CIV - 1151	LAYOUT PLAN
-----------------------	-------------

WATSONS ROAD (SS-RD-07)

2113308A - CIV - 1160	LAYOUT PLAN
2113308A - CIV - 1161	SHEET 1
2113308A - CIV - 1162	SHEET 2
2113308A - CIV - 1163	SHEET 3
2113308A - CIV - 1164	SHEET 4

CINNION ROAD (SS-RD-08)

2113308A - CIV - 1170	LAYOUT PLAN
2113308A - CIV - 1171	SHEET 1
2113308A - CIV - 1172	SHEET 2
2113308A - CIV - 1173	SHEET 3

ALIGNMENT PLANS - INTERIM INTERSECTION

2113308A - CIV - 1501	LR-IN-01
2113308A - CIV - 1502	LR-IN-02
2113308A - CIV - 1503	LR-IN-03
2113308A - CIV - 1504	LR-IN-04
2113308A - CIV - 1505	LR-IN-05
2113308A - CIV - 1601	SS-IN-01
2113308A - CIV - 1602	SS-IN-02
2113308A - CIV - 1603	SS-IN-03
2113308A - CIV - 1604	SS-IN-04
2113308A - CIV - 1607	SS-IN-08

JACKSONS CREEK BRIDGE (SS-BR-01)

2113308A - STR - 0102	GENERAL ARRANGEMENT	SHEET 1
2113308A - STR - 0103	GENERAL ARRANGEMENT	SHEET 2




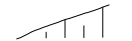


JACKSONS CREEK BRIDGE (LR-BR-01)

2113308A - STR - 0401	GENERAL ARRANGEMENT	SHEET 1
2113308A - STR - 0402	GENERAL ARRANGEMENT	SHEET 2
2113308A - STR - 0403	GENERAL ARRANGEMENT	SHEET 3

JACKSONS CREEK BRIDGE INVESTIGATION

2113308A - STR - 2015	RETAINING WALL SOIL NAIL DETAILS
-----------------------	----------------------------------

LEGEND

	PROPOSED LAND TAKE AREA		EXISTING WATER MAIN
	UNDERPASS		EXISTING SEWER
	STRUCTURE		EXISTING TELECOMMUNICATIONS
	RETAINING WALL		EXISTING GAS
	CONTOUR		EXISTING ELECTRICITY OVERHEAD
	CADASTRAL BOUNDARY		EXISTING ELECTRICITY UNDERGROUND
	KERB		EXISTING ELECTRICITY HIGH VOLTAGE
	EARTHWORKS (CUT/FILL BATTER)		EXISTING DRAINAGE
	PROPOSED ROW		

GENERAL NOTES

- DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DESIGN REPORTS
- PB DOCUMENT No. "211308A - CIV - REP - 002 RevC"
- GHD DOCUMENT "SUNBURY SOUTH LANCEFIELD ROAD ICP DESIGN AND COSTING REPORT" - SEPTEMBER 2019
- THE LOCATION OF EXISTING SERVICES SHOWN ARE APPROXIMATE ONLY. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.
- WHERE SHOWN, BATTER AND RETAINING WALL EXTENTS ARE APPROXIMATE ONLY. RETAINING WALLS SHOWN WHEN BATTER WIDTH WOULD HAVE EXCEEDED 20m
- CONTOURS SHOWN ARE GENERATED FROM LIDAR DATA PROVIDED BY VPA (FORMALLY MPA).



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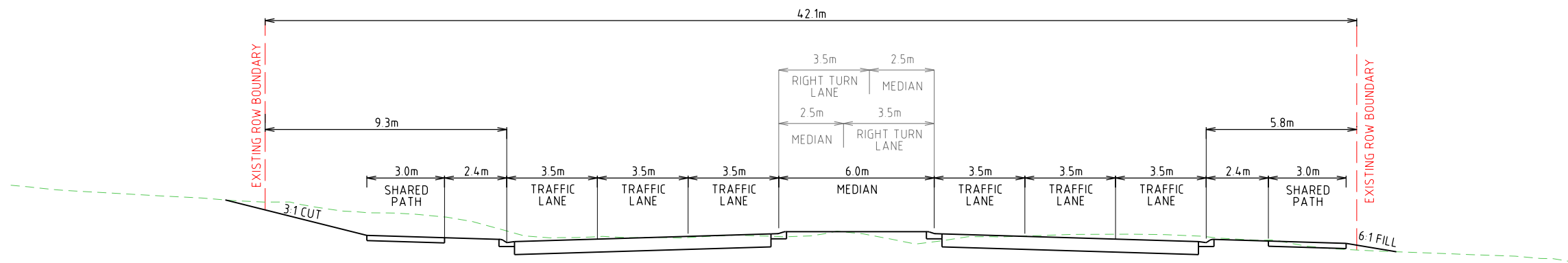
M	UPDATED DRAWING INDEX		SL	LM*	MW*	06.11.19
L	UPDATED GENERAL NOTES AND LEGEND		SL	LM*	MW*	18.09.19
K	UPDATED DRAWING LIST		SL	LM*	MW*	12.08.19
J	ADDED NEW DRAWINGS AND REMOVED SS DRAWINGS		SL	LM*	MW*	27.05.19
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



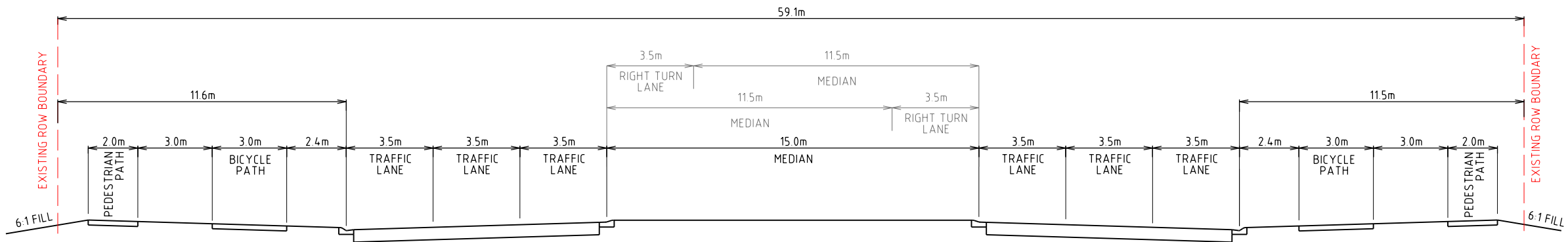
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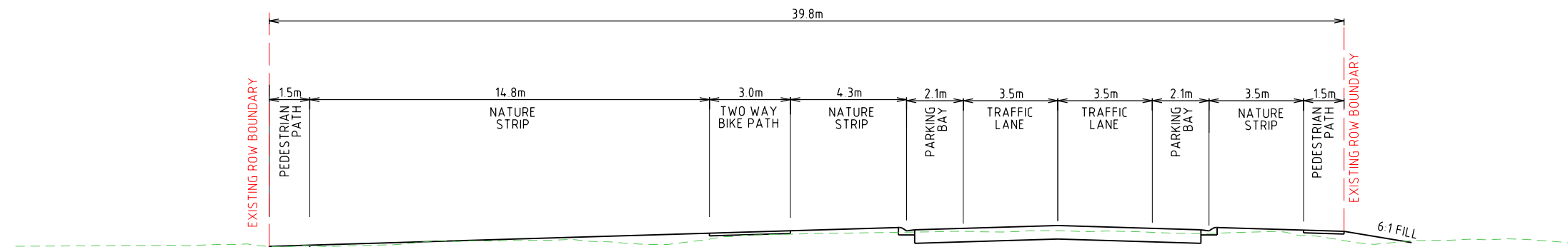
PRELIMINARY		GHD Drawing No. 31-36206-CIV-0101	
Project Title	SUNBURY STH AND LANCEFIELD RD PSP DRAWING INDEX, LEGEND AND GENERAL NOTES		
Original Size A3	Drawing No:	2113308A-CIV-0101	Rev: M



VINEYARD ROAD - ULTIMATE - TYPICAL SECTION (SS-RD3)



SUNBURY ROAD - ULTIMATE - TYPICAL SECTION (SS-RD1)



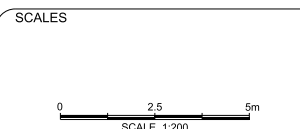
CONNECTOR ROAD (LR-RD3)

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRAWN	CHECK	DESIGN	VERIFY
B	25/07/16	ADDED ROAD NAMES TO XSECTS	GW	DR	GW	DR
A	10/12/15	ISSUED FOR INFORMATION	RAM	GW	RAM	DR

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SIGNED _____
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PO BOX 19016
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Australia

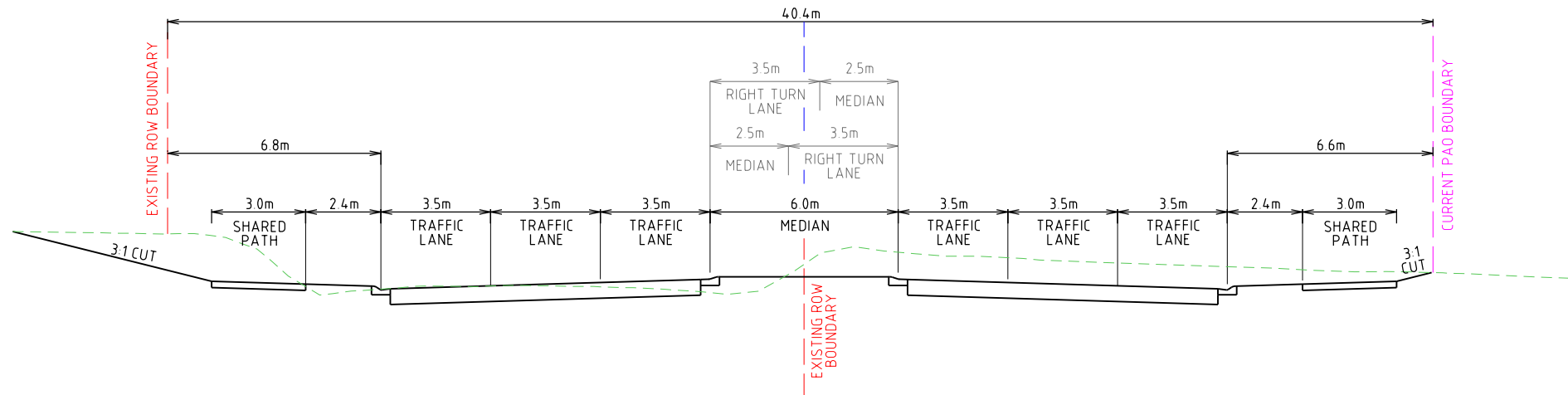
ABN 80 078 004 798

Telephone +61 3 9861 1111
Facsimile +61 3 9861 1144
Email: melbourne@pb.com.au

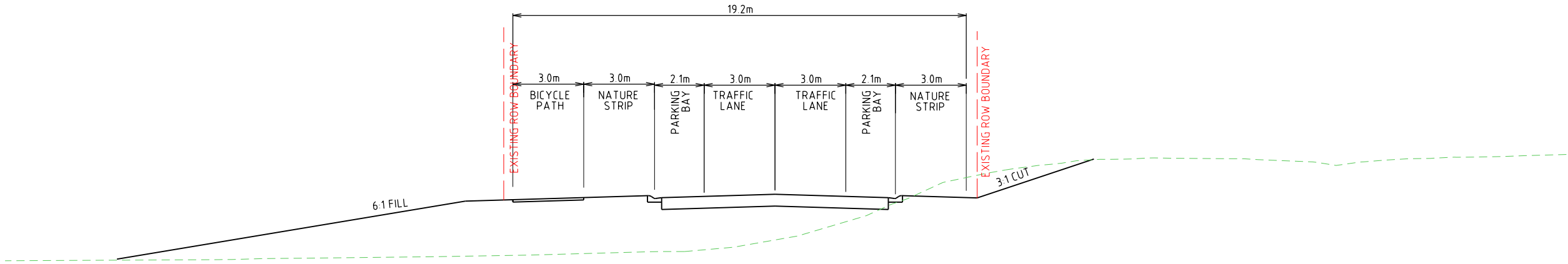
CLIENT

mpa METROPOLITAN PLANNING AUTHORITY

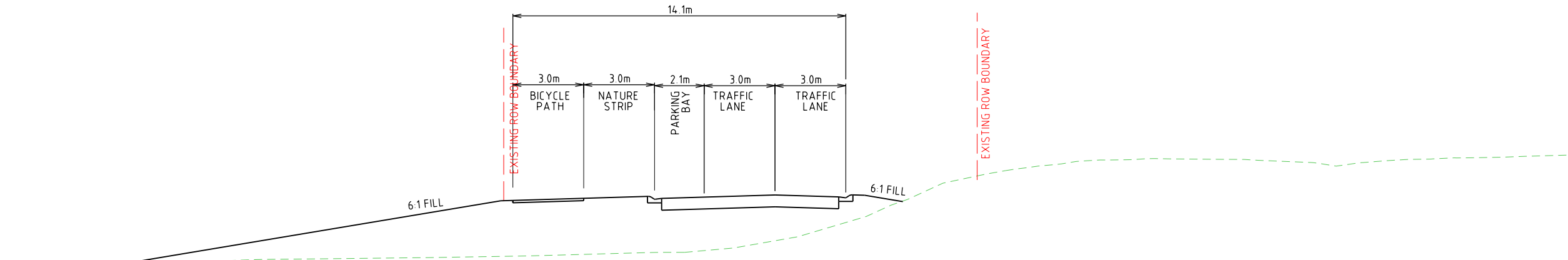
PROJECT SUNBURY STH AND LANCEFIELD RD PSP			
TYPICAL SECTIONS SHEET 1			
PROJECT No. 2113308A	DISCIPLINE - CIV -	NUMBER 0201	REV. B



LANCEFIELD ROAD - ULTIMATE - TYPICAL SECTION (LR-RD1, SS-RD2)



WATSONS ROAD MODIFIED CONNECTOR STREET (SS-RD7) - WEST OF RAILWAY LINE



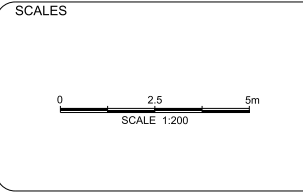
WATSONS ROAD MODIFIED CONNECTOR STREET (SS-RD7) - EAST OF RAILWAY LINE

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRAWN	CHECK	DESIGN	VERIFY
C	9/09/16	PED PATH REMOVED FROM WATSONS RD WEST	JM	GW	JM	GW
B	30/06/16	ADDED WATSONS RD MODIFIED CONNECTOR X-SECTION	DH	GW	DH	DR
A	10/12/15	ISSUED FOR INFORMATION	RAM	GW	RAM	DR

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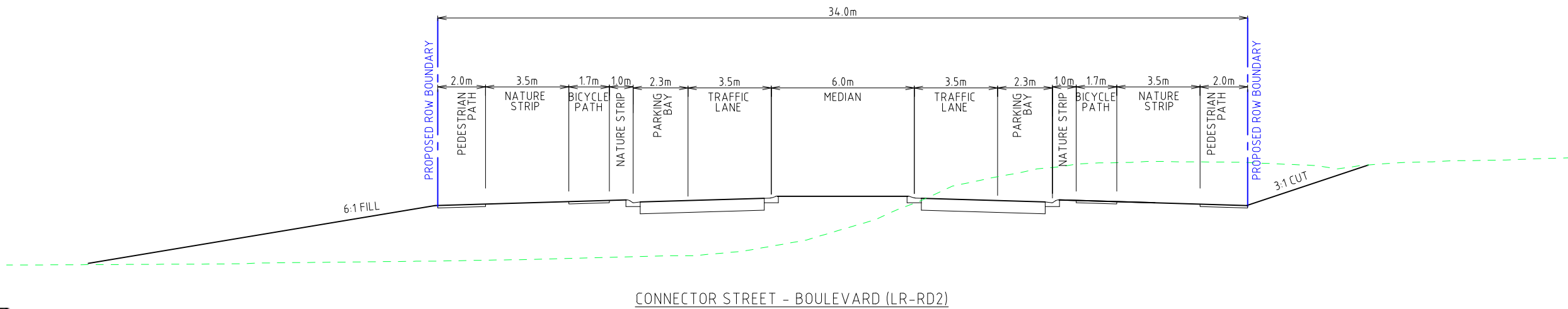
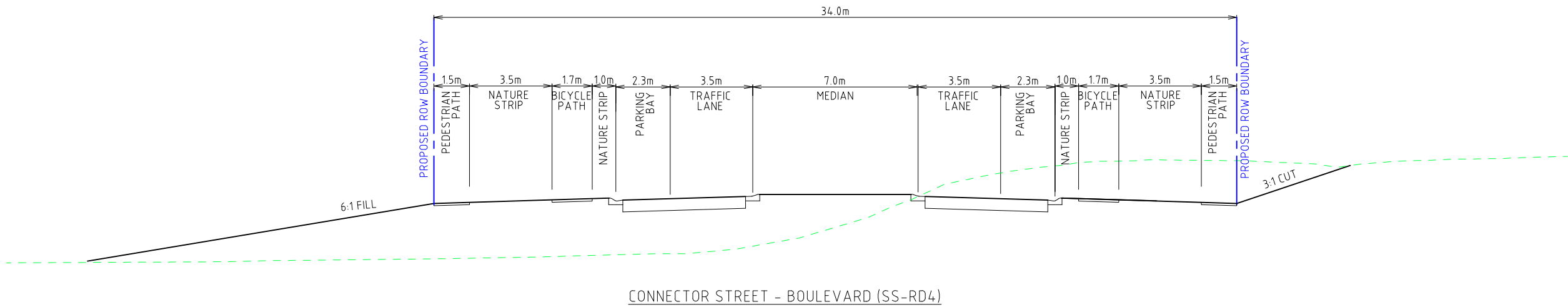
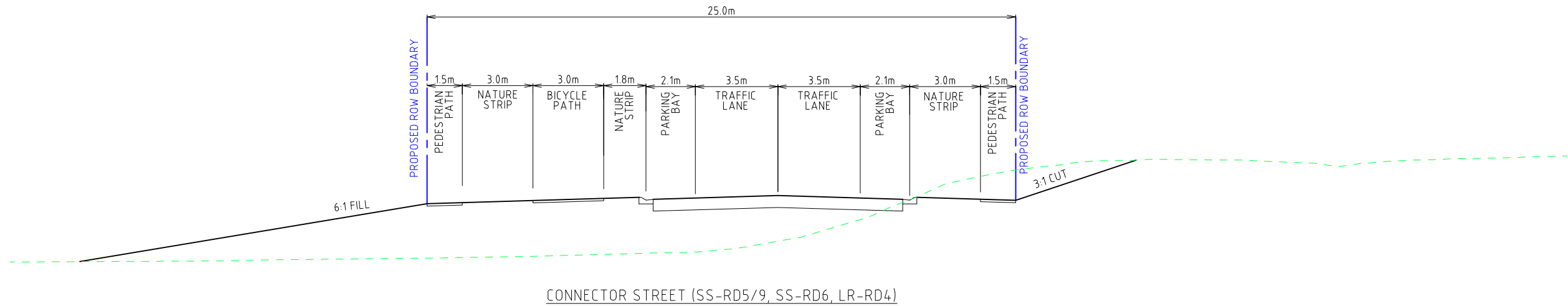
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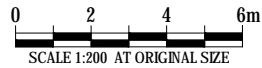


PROJECT SUNBURY STH AND LANCEFIELD RD PSP			
TYPICAL SECTIONS SHEET 2			
PROJECT No. 2113308A	DISCIPLINE - CIV -	NUMBER 0202	REV. C



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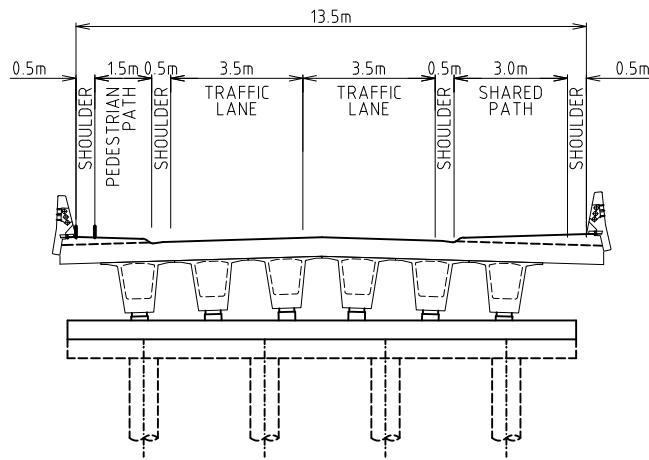
D	AMENDED TO VPA COMMENTS - GHD	DAC	LM*	MW*	27.07.18
C	SS-RD4 AND LR-RD2 CROSS SECTION REVISED - PB	GW	-	-	04.10.16
B	ADDED ROAD NAMES TO XSECTS - PB	DH	-	-	25.07.16
A	ISSUED FOR INFORMATION - PB	RAM	-	-	10.12.15
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			
		Drawn	Project Manager	Project Director	Date



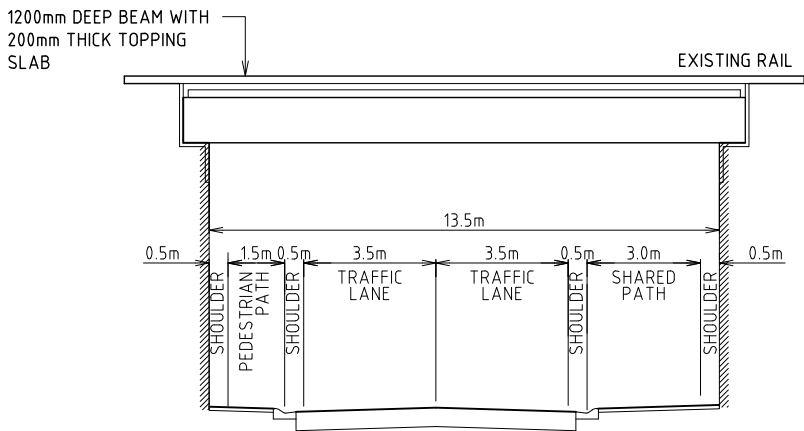
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PRELIMINARY	GHD Drawing No. 31-36206-CIV-0203
Project Title	SUNBURY STH AND LANCEFIELD RD PSP TYPICAL SECTIONS SHEET 3
Original Size	Drawing No: 2113308A-CIV-0203
A3	Rev: D



BRIDGE STRUCTURE (SS-BR-01, SS-BR-02,SS-BR-03, LR-BR-03)



UNDERPASS (SS-BR-04, LR-BR-02)



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G	SS-BR-03 ADDED TO TITLE		SL	LM*	MW*	03.02.21
F	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	12.09.19
E	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.08.19
D	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	27.07.18
C	LR-BD1 REMOVED FROM TITLE - PB		GW	GK*	-	01.05.17
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Designer M.BISHOP

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PRELIMINARY


GHD Drawing No. **31-36206-CIV-0204**

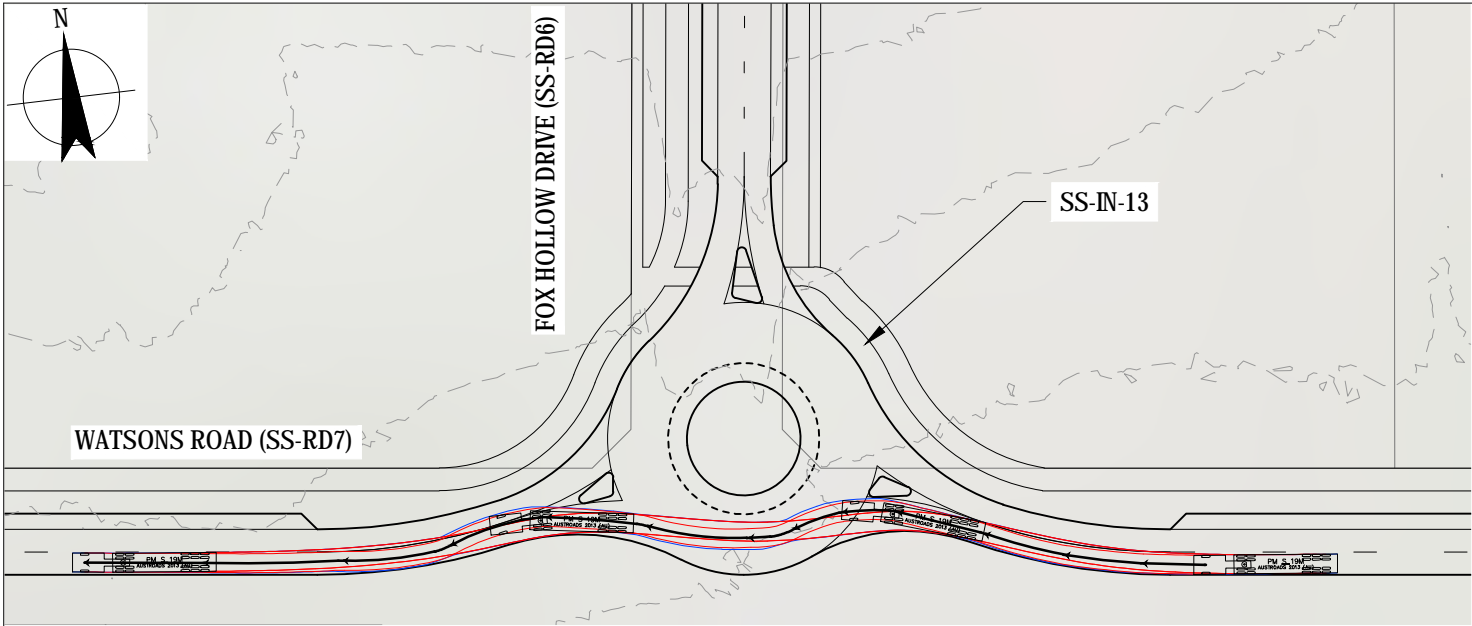
Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **TYPICAL SECTIONS**
SHEET 4

Original Size **A3** Drawing No: **2113308A-CIV-0204**

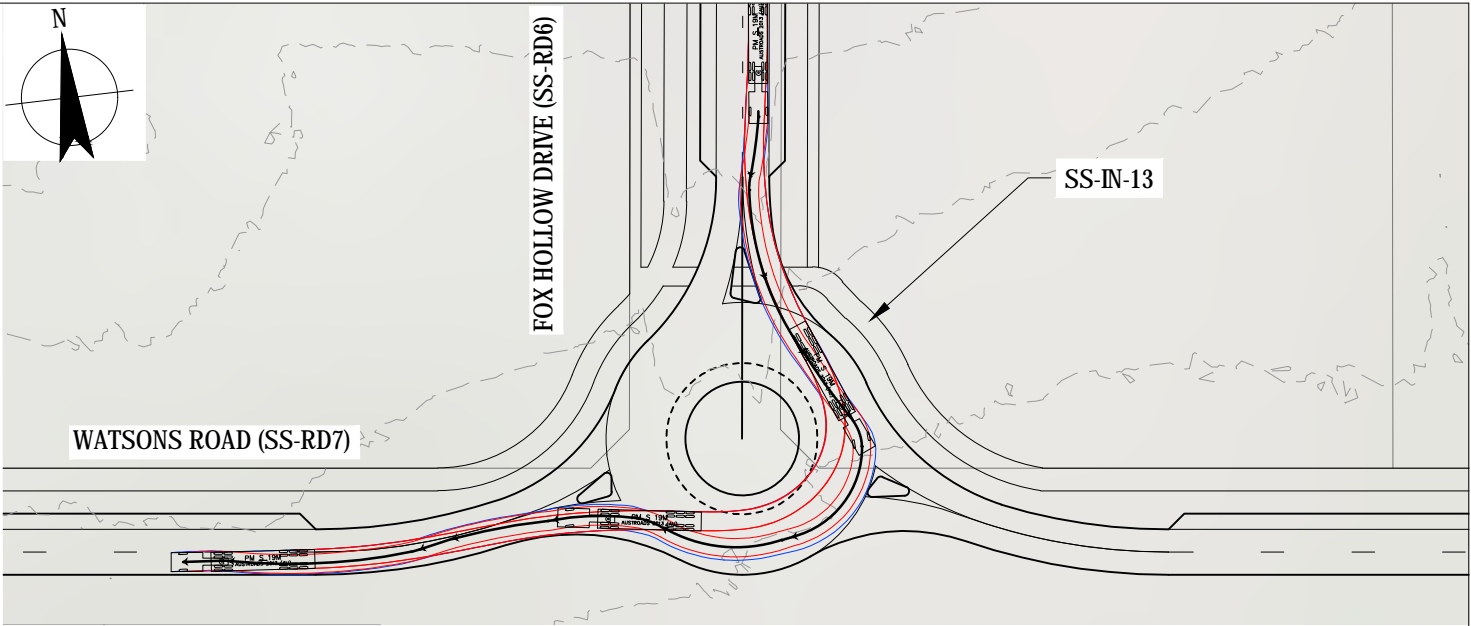
Rev: **G**



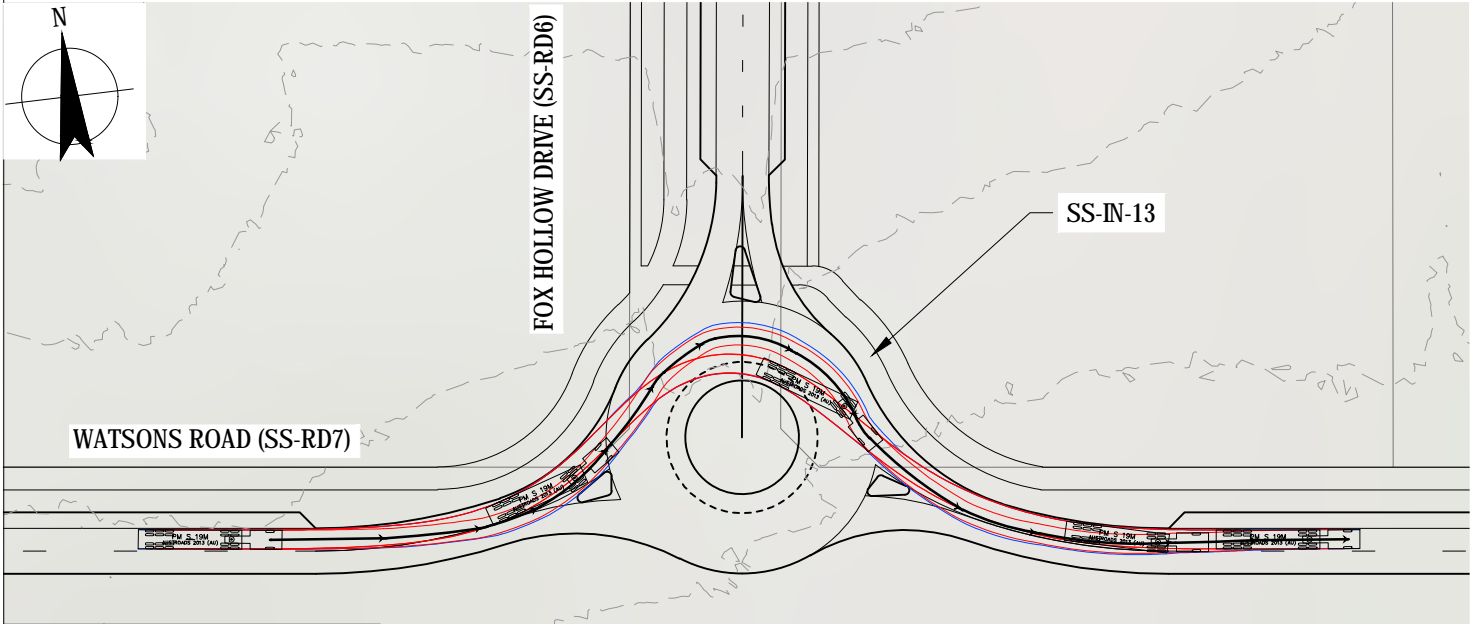
<div>CLIENT</div> 	<div>PROJECT</div> <div>SUNBURY STH AND LANCEFIELD RD PSP</div>			
	<div>TYPICAL SECTIONS</div> <div>SHEET 5</div>			
	<div>PROJECT No.</div> <div>2113308A</div>	<div>DISCIPLINE</div> <div>– CIV –</div>	<div>NUMBER</div> <div>0205</div>	<div>REV.</div> <div>A</div>



PLAN
SCALE 1:1000



PLAN
SCALE 1:1000



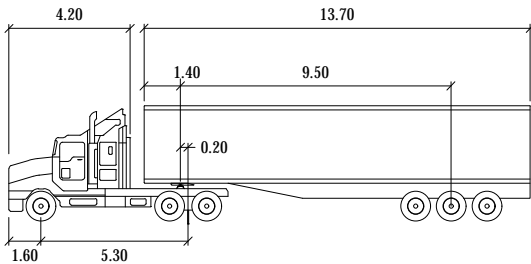
PLAN
SCALE 1:1000

LEGEND:

- VEHICLE PATH
- REAR TYRES
- FRONT TYRES
- VEHICLE BODY

NOTE:

1. DESIGN SPEED 5km/h UNLESS NOTED OTHERWISE.



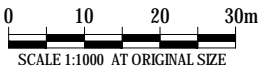
19M PRIME MOVER AND SEMI TRAILER (PM S 19M)

Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 27.8
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		



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B	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	08.08.19		
A	ISSUED FOR INFORMATION	TC	LM	MW	10.08.18		
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Project Manager	Project Director	Date



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Drawn T.COOLEY

Designer T.COOLEY

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Approved (Project Director)
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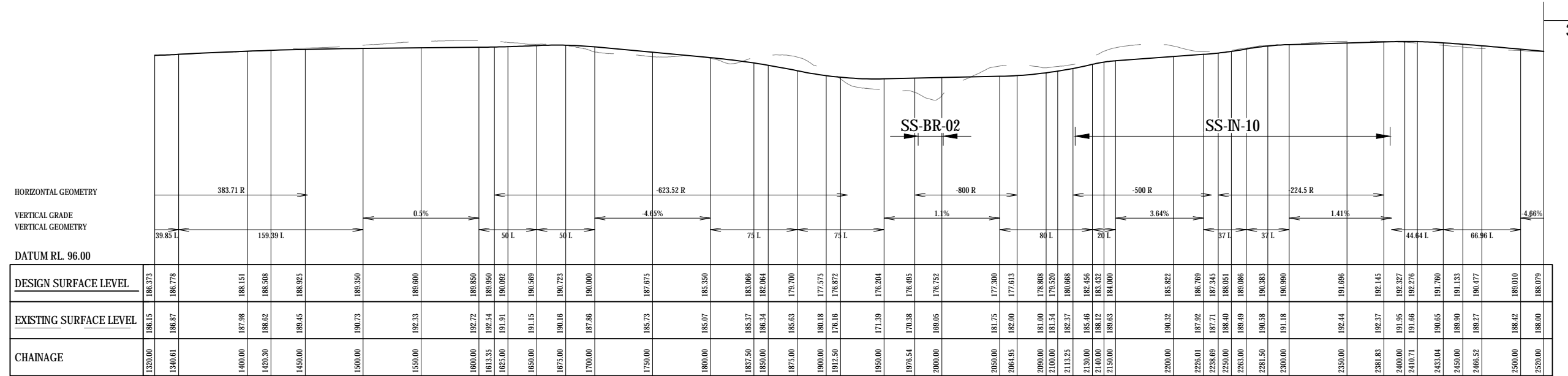
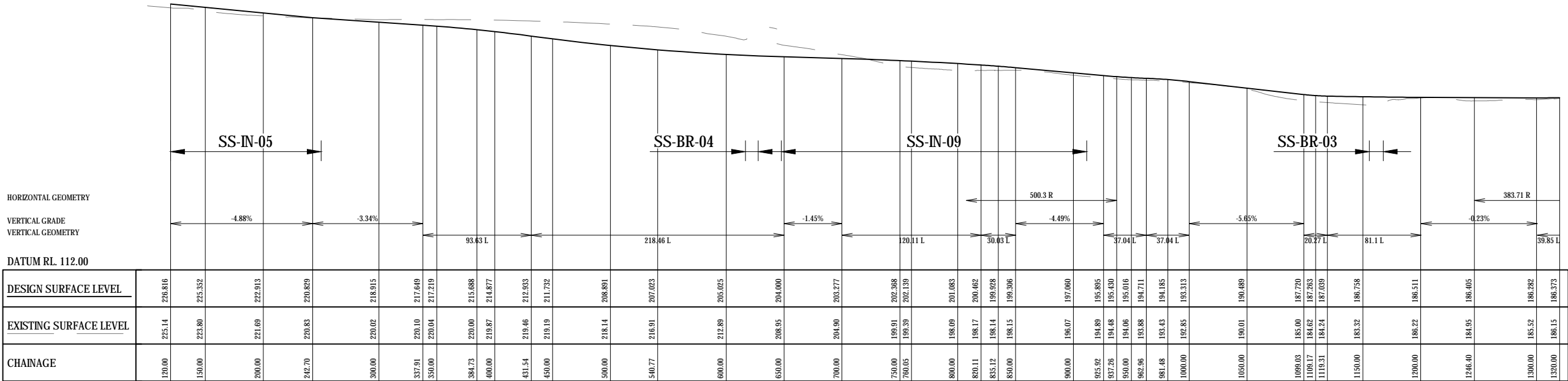
PRELIMINARY

GHD Drawing No. 31-36206-CIV-0300

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **VEHICLE TURNING MOVEMENTS**
WATSONS ROAD (SS-RD-07)

Original Size **A3** Drawing No: **31-36206-CIV-0300**

Rev: **B**



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A	ISSUED FOR INFORMATION - GHD	SL	LM*	MW*	22.05.19
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Designer J.THAI

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Date

Scale AS SHOWN

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PRELIMINARY

GHD Drawing No. 31-36206-CIV-0400

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **LONGITUDINAL SECTION**
SS-RD4-05, SS-RD4-04 & SS-RD4-03
SHEET 1 OF 2

Original Size

A3

Drawing No: **31-36206-CIV-0400**

Rev: B

CONTINUED ON
31-36206-CIV-402



VERTICAL GRADE
VERTICAL GEOMETRY

DATUM RL. 80.00

CHAINAGE	DESIGN SURFACE LEVEL		EXISTING SURFACE LEVEL
	188.00	188.07	
2520.00			188.00
2525.00			188.80
2530.00			188.135
2535.00			188.85
2540.00			188.143
2545.00			188.836
2550.00			190.14
2555.00			192.11
2560.00			192.564
2565.00			193.080
2570.00			193.293
2575.00			193.755
2580.00			193.987
2585.00			197.82
2590.00			197.558
2595.00			197.518
2600.00			198.718
2605.00			195.540
2610.00			
2615.00			
2620.00			
2625.00			
2630.00			
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SS-RD4 LONGITUDINAL SECTION (CONTINUATION BELOW)

SCALE 1:2000 H, 1:1000V



VERTICAL GRADE
VERTICAL GEOMETRY

DATUM RL. 138.00

CHAINAGE	EXISTING SURFACE LEVEL		DESIGN SURFACE LEVEL	
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3850.00	214.83	214.697		
3900.00	215.56	215.438		
3929.21	216.00	215.912		
3950.00	216.11	216.75		
4000.00	216.82	216.915		
4050.00	217.84	217.766		
4100.00	218.88	218.844		
4112.00	219.11	219.136		
4150.00	219.86	219.988		
4198.00	220.58	220.773		
4250.00	221.22	221.347		
4298.00	221.49	221.594		
4415.95	222.12	221.952		
4300.00	221.68	221.570		
4610.05	220.85	220.879		
4450.00	222.14	222.968		
4550.00	222.00	221.736		
4500.00	222.23	222.234		
4531.44	222.04	222.195		
4550.00	221.87	222.037		
4582.87	221.72	221.889		
4600.00	221.10	221.137		
4610.05	220.85	220.879		
4650.00	219.60	219.594		
4700.00	217.53	217.644		
4800.00	212.86	213.714		
4830.75	212.49	212.414		
4850.00	211.59	211.556		
4900.00	214.51	214.515		
4950.00	208.87	209.692		
4900.00	208.38	209.500		
4950.00	208.32	208.385		
4944.24	207.61	207.612		
4998.99	206.74	206.736		
5050.00	206.24	206.479		
5088.07	206.39	206.389		

SS-RD4 LONGITUDINAL SECTION

SCALE 1:2000 H, 1:1000V



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B	UPDATED PROJECT NAMES		SL	LM*	MW*
A	ISSUED FOR INFORMATION - GHD		SL	LM*	MW*
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director
					Date



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Drawn	S.LAYBOURNE
-------	-------------

o nt)	Drafting Check
	Approved (Project Director) Date

Scale	AS SHOWN
-------	----------

Designer J.THA1

	Design Check
--	--------------

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used for Construction unless

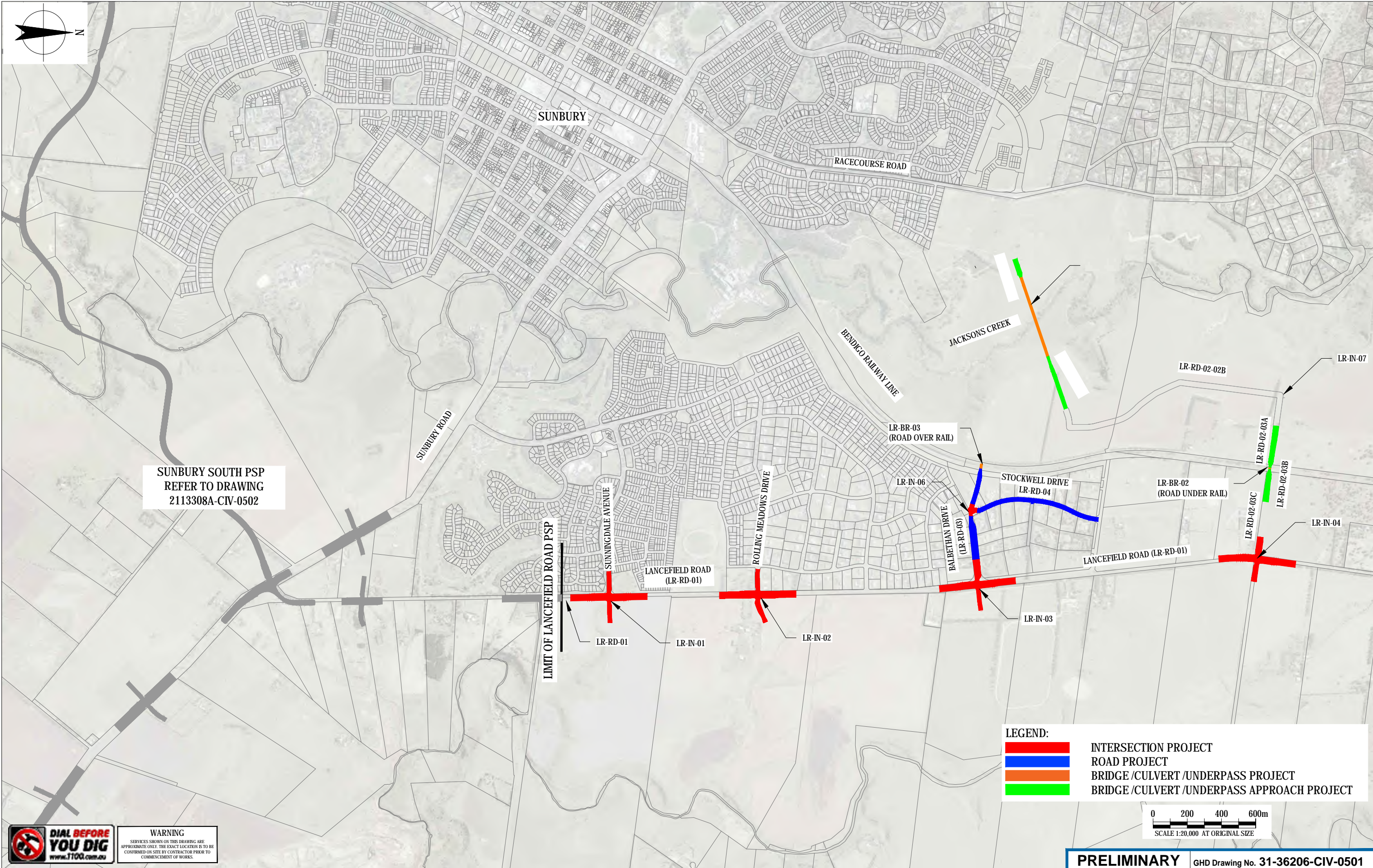
PRELIMINARY

GHD Drawing No. 31-36206-CIV-0401

Project	SUNBURY STH AND LANCEFIELD RD PSP
Title	LONGITUDUNAL SECTION SS-RD4-02 & SS-RD4-01 SHEET 2 OF 2

Original Size
A3 Drawing No: **31-36206-CIV-0401**

ev. **B**



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J	INTERSECTION LR-IN-06 ADDED	SL	LM*	MW*	12.09.19
I	UPDATED PROJECT NAMING CONVENTION - GHD	SL	LM*	MW*	12.08.19
H	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	06.08.19
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director
					Date



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Drawn D.COMBEN Designer G.KERR

Drafting Check Design Check

Approved (Project Director) Date

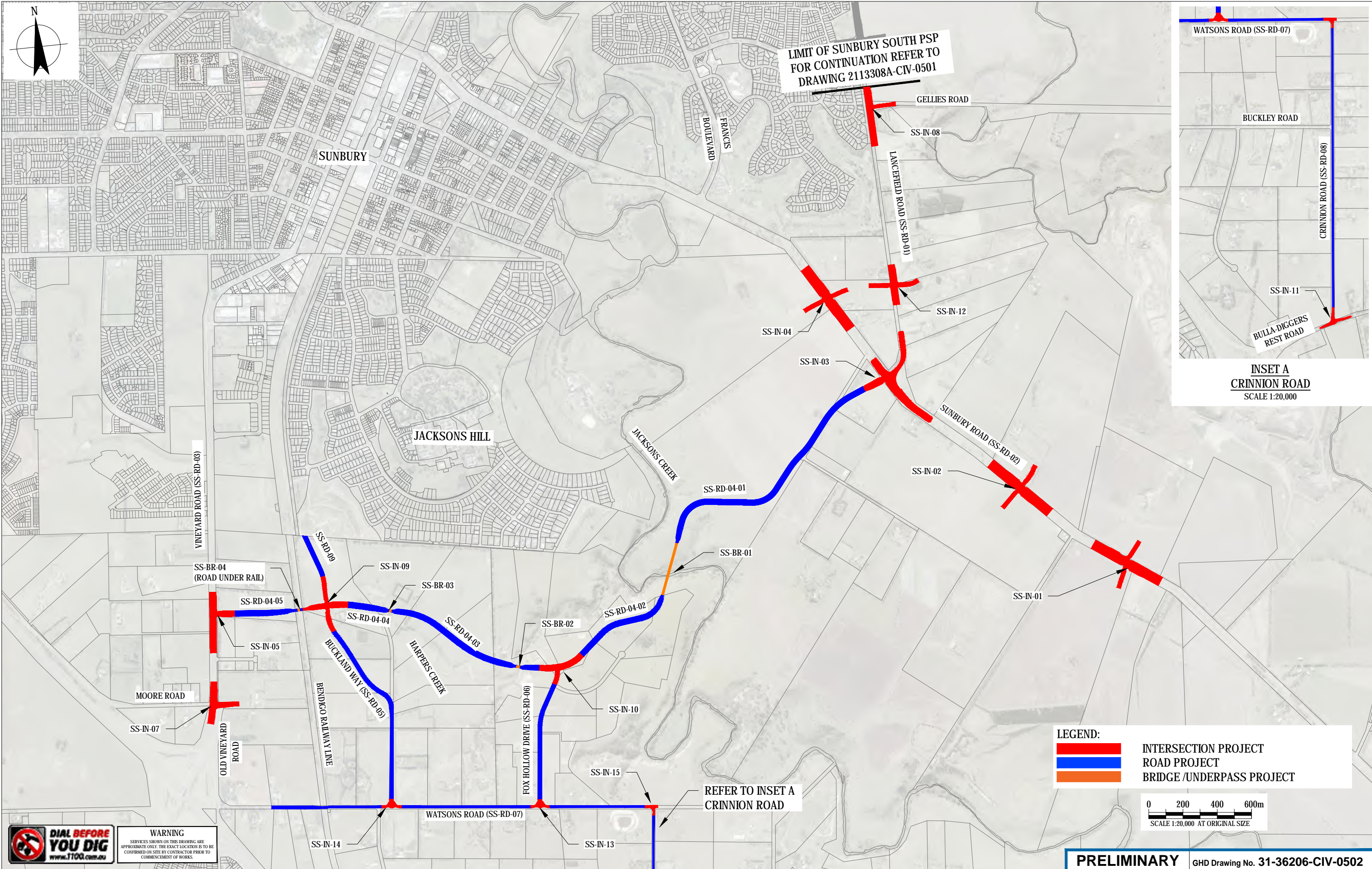
Scale AS SHOWN

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PRELIMINARY GHD Drawing No. 31-36206-CIV-0501

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **OVERALL LAYOUT PLAN
LANCEFIELD ROAD PSP**

Original Size **A3** Drawing No: **2113308A-CIV-0501** Rev: **J**



WARNING
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L	SS-BR-03 LABEL	SL	LM*	MW*	03.02.21
K	ROAD PROJECT SS-RD-09 ADDED	SL	LM*	MW*	12.09.19
J	INTERSECTION SS-IN-15 ADDED	SL	LM*	MW*	21.08.19
I	INTERSECTION SS-IN-14 ADDED	SL	LM*	MW*	12.08.19
H	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	06.08.19
No	Revision	Note:	* indicates signatures on original issue of drawing or last revision of drawing		
Drawn	Project Manager	Project Director	Date		



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Drawn	D.COMBEN	Designer	G.KERR
Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	

PRELIMINARY

GHD Drawing No. 31-36206-CIV-0502

Project Title
**SUNBURY STH AND LANCEFIELD RD PSP
OVERALL LAYOUT PLAN
SUNBURY SOUTH PSP**

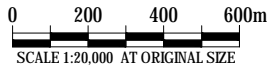
Original Size
A3 Drawing No: **2113308A-CIV-0502**

Rev: L



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C	AMENDED TO VPA COMMENTS - GHD	AP	LM*	MW*	06.08.19	
B	AMENDED TO VPA COMMENTS - GHD	DH	LM*	MW*	27.05.19	
A	ISSUED FOR INFORMATION	RAM	GW	DR	10.12.15	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	1:20000	This Drawing must not be used for Construction unless signed as Approved	

PRELIMINARY GHD Drawing No. 31-36206-CIV-1000

Project Title **SUNBURY STH AND LANCEFIELD RD PSP LAYOUT PLAN ULTIMATE LAYOUT LR-RD-01**

Original Size **A3** Drawing No: **2113308A-CIV-1000** Rev: **C**

1001

50mm AT FULL SIZE

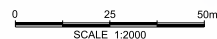


REV	DATE	DESCRIPTION	DRAWN	CHECK	DESIGN	VERIFY
B	30/06/2016	ADDED LAND TAKE FOR GELLIES ROAD INTERSECTION	DH	GW	DH	DR
A	10/12/15	ISSUED FOR INFORMATION	RAM	GW	RAM	DR

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SIGNED _____
DATE _____

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CLIENT



PROJECT			
SUNBURY STH AND LANCEFIELD RD PSP			
ALIGNMENT PLAN ULTIMATE LAYOUT LANCEFIELD ROAD (LR-RD1)			
SHEET 1			
PROJECT No.	DISCIPLINE	NUMBER	REV.
2113308A	- CIV -	1001	B

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

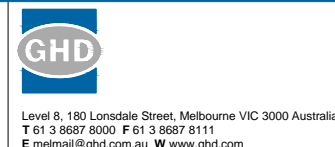
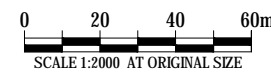


INTERIM DESIGN
ULTIMATE DESIGN



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C		AMENDED TO COMMENTS - GHD	SL	LM*	MW*	08.02.19
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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		Approved (Project Director) Date	
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PRELIMINARY		GHD Drawing No. 31-36206-CIV-1002	
Project	SUNBURY STH AND LANCEFIELD RD PSP		
Title	ALIGNMENT PLAN ULTIMATE LAYOUT LANCEFIELD ROAD (LR-RD-01) SHEET 2		
Original Size	A3	Drawing No: 2113308A-CIV-1002	Rev: C

1004



FOR CONTINUATION REFER TO LR-RD3 SHEET 3

LR-RD3

1800

INTERSECTION EXTENT

1900

INTERSECTION LR-IT3

2700

2800

2900

LANCEFIELD ROAD (LR-RD1)

APPROX
56 SQM

APPROX
3361 SQM

INTERSECTION EXTENT

FOR CONTINUATION REFER TO SHEET 5

FOR CONTINUATION REFER TO SHEET 3

INTERSECTION EXTENT

INTERSECTION EXTENT



PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRAWN	CHECK	DESIGN	VERIFY
B	25/07/16	REALIGNED LR-RD3 AND AMENDED CROSS SECTION	DH	GW	DH	DR
A	10/12/15	ISSUED FOR INFORMATION	RAM	GW	RAM	DR

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DATE

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PROJECT
SUNBURY STH AND LANCEFIELD RD PSP

ALIGNMENT PLAN
ULTIMATE LAYOUT
LANCEFIELD ROAD (LR-RD1)
SHEET 4

PROJECT No.	DISCIPLINE	NUMBER	REV.
2113308A	- CIV -	1004	B

1006

50mm AT FULL SIZE



FOR CONTINUATION REFER TO SHEET 5

FOR CONTINUATION REFER TO LR-RD2 SHEET 5

LR-RD2

INTERSECTION EXTENT

APPROX 17668 SQM

APPROX 58 SQM

LANCEFIELD ROAD (LR-RD1)

INTERSECTION EXTENT

APPROX 1234 SQM

INTERSECTION LR-IT4

APPROX 8399 SQM

4400

INTERSECTION EXTENT

FOR CONTINUATION REFER TO SHEET 7



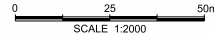
PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	DRAWN	CHECK	DESIGN	VERIFY
D	1/05/17	CHAINAGE UPDATED	GW	SB	GW	SB
C	4/10/16	LR-RD2 CROSS SECTION MODIFIED. LAND TAKE REVISED	GW	DR	GW	DR
B	25/07/16	AMENDED PED. PATH CROSS SECTION WIDTH TO 2m	DH	GW	DH	DR
A	10/12/15	ISSUED FOR INFORMATION	RAM	GW	RAM	DR

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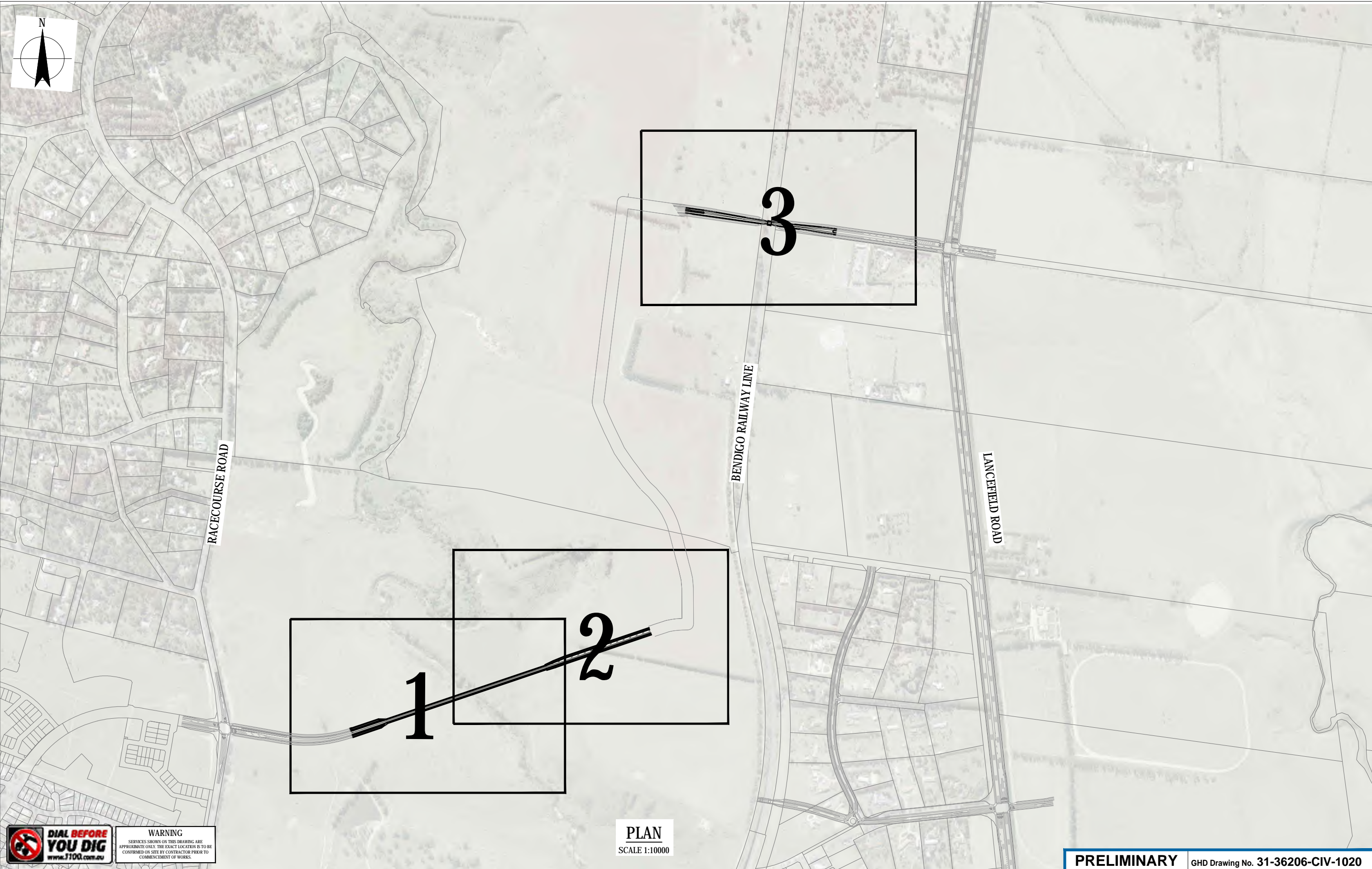
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PROJECT			
SUNBURY STH AND LANCEFIELD RD PSP			
ALIGNMENT PLAN ULTIMATE LAYOUT LANCEFIELD ROAD (LR-RD1) SHEET 6			
PROJECT No. 2113308A	DISCIPLINE - CIV -	NUMBER 1006	REV. C



WARNING
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G	UPDATED LR-BR-01 ALIGNMENT		SL	LM*	MW*	18.09.19
F	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	06.08.19
E	AMENDED TO VPA COMMENTS - GHD		DE	LM*	MW*	04.02.19
D	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	27.07.18
C	ISSUED FOR REVIEW - GHD		DAC	GK*	MW*	05.06.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date

Plot Date: 18 September 2019 - 3:07 PM Plotted By: Shane Laybourne

Cad File No: G:\31\36206\CADD\Drawings\31-36206-CIV-1020.dwg



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Drawn D.COMBEN

Designer G.KERR

Drafting Check

Design Check

Approved (Project Director)
Date

Scale 1:10000

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GHD Drawing No. 31-36206-CIV-1020

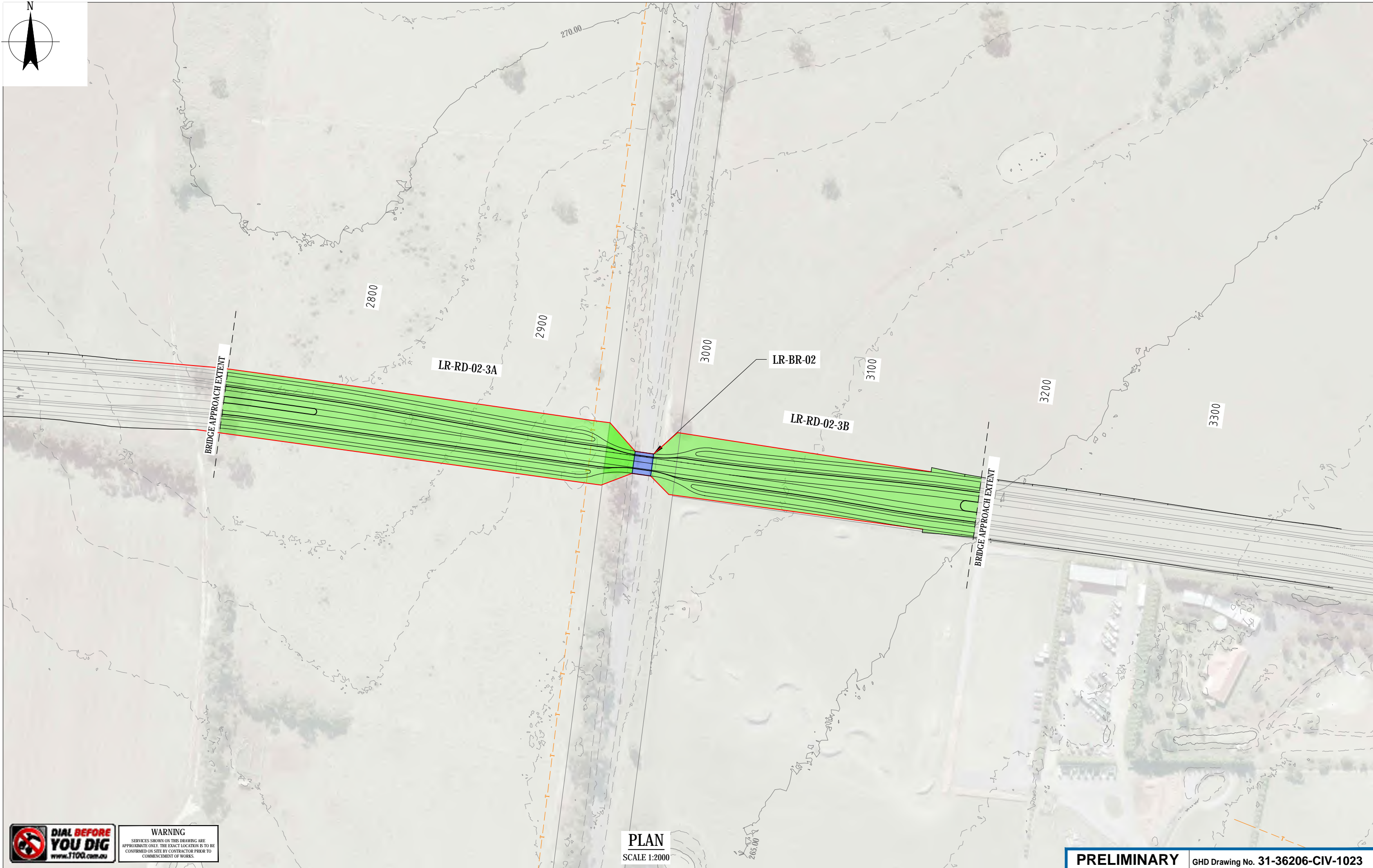
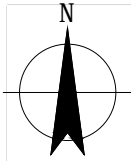
Project Title
**SUNBURY STH AND LANCEFIELD RD PSP
LAYOUT PLAN
ULTIMATE LAYOUT
LR-RD-02**

Original Size

A3

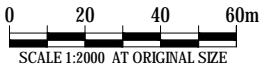
Drawing No: **2113308A-CIV-1020**

Rev: **G**



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K	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	18.09.19
J	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.08.19
I	AMENDED TO VPA COMMENTS - GHD		DH	LM*	MW*	27.05.19
H	AMENDED TO GHD COMMENTS - GHD		SL	LM*	MW*	08.02.19
G	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	02.08.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Drafting Check		Design Check	
Approved (Project Director)		Date	

Scale 1:2000

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PRELIMINARY

GHD Drawing No. 31-36206-CIV-1023

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **ALIGNMENT PLAN**
ULTIMATE LAYOUT
LR-RD-02 SHEET 3

Original Size

A3

Drawing No: **2113308A-CIV-1023**

Rev: **K**

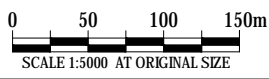


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PLAN
SCALE 1:5000

G	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	06.08.19
F	AMENDED TO COMMENTS - GHD		SL	LM*	MW*	08.02.19
E	AMENDED TO VPA COMMENTS		TC	LM*	MW*	03.12.18
D	AMENDED TO VPA COMMENTS		DAC	LM*	MW*	27.07.18
C	SHEET 2 RE-ALIGNED - GHD		DC	LM	MW	25.07.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date

Plot Date: 8 August 2019 - 10:00 AM Plotted By: Doug Ewert Cad File No: \\ghdnet\ghd\AU\Melbourne\Projects\31\36206\CADD\Drawings\31-36206-CIV-1030.dwg



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	Approved (Project Director)	Date
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PRELIMINARY	GHD Drawing No. 31-36206-CIV-1030		
Project Title	SUNBURY STH AND LANCEFIELD RD PSP LAYOUT PLAN INTERIM LAYOUT LR-RD-03 AND LR-RD-04		
Original Size	A3	Drawing No: 2113308A-CIV-1030	Rev: G



H	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	18.09.19
G	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	06.08.19
F	AMENDED TO VPA COMMENTS - GHD		DE	LM*	MW*	07.12.18
E	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	02.08.18
D	SHEET 2 RE-ALIGNED - GHD		DAC	LM	MW	25.07.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date

Plot Date: 30 October 2019 - 4:39 PM Plotted By: Shane Laybourne

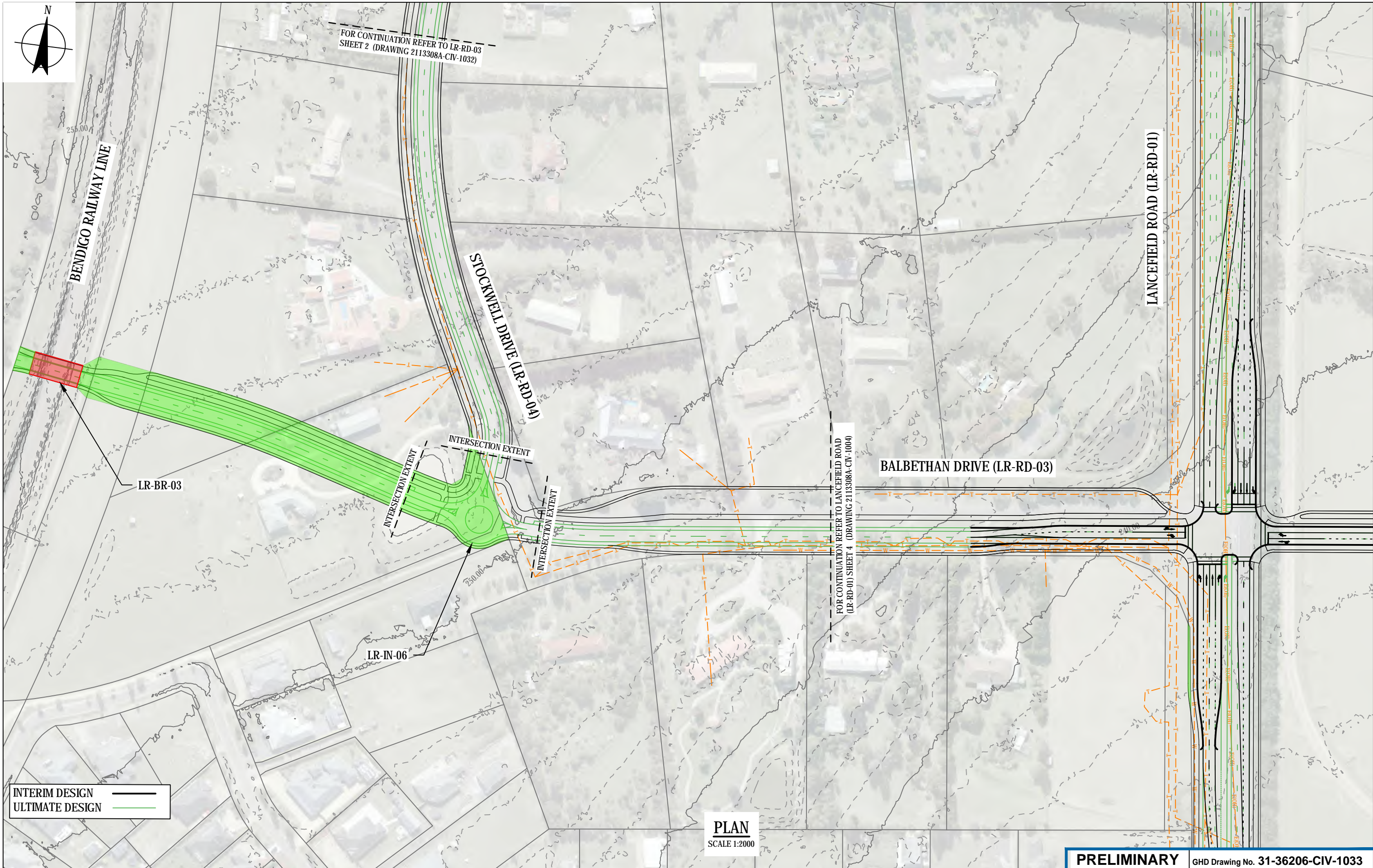


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	Approved (Project Director) Date	
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PRELIMINARY	GHD Drawing No. 31-36206-CIV-1032
Project Title	SUNBURY STH AND LANCEFIELD RD PSP LAYOUT PLAN ULTIMATE LAYOUT LR-RD-03
Original Size	A3
Drawing No:	2113308A-CIV-1032
Rev:	H

Cad File No: G:\31\36206\CADD\Drawings\31-36206-CIV-1031-1033.dwg

FOR CONTINUATION REFER TO LR-RD3
SHEET 3 (DRAWING 2113308A-CIV-1033)



I	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	7.10.19
H	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	18.09.19
G	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	06.08.19
F	AMENDED TO VPA COMMENTS - GHD		TC	LM*	MW*	03.12.18
E	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	02.08.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Designer M.BISHOP

Drafting Check

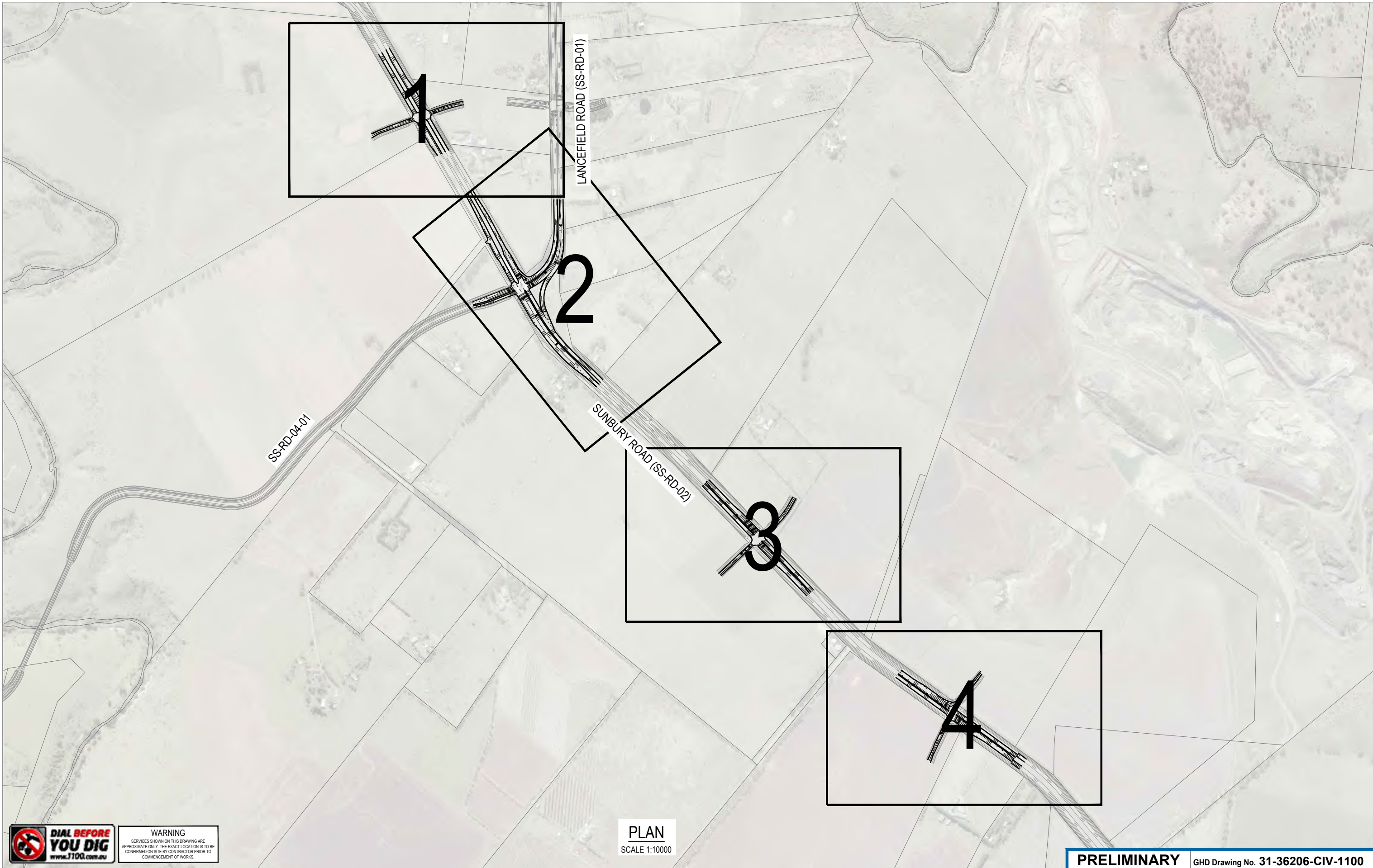
Design Check

Approved (Project Director)
Date

Scale 1:2000

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PRELIMINARY		GHD Drawing No. 31-36206-CIV-1033	
Project	SUNBURY STH AND LANCEFIELD RD PSP		
Title	LAYOUT PLAN INTERIM LAYOUT LR-RD-03		
Original Size	A3	Drawing No: 2113308A-CIV-1033	Rev: I



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C	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	02.03.21
B	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	08.08.19
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director



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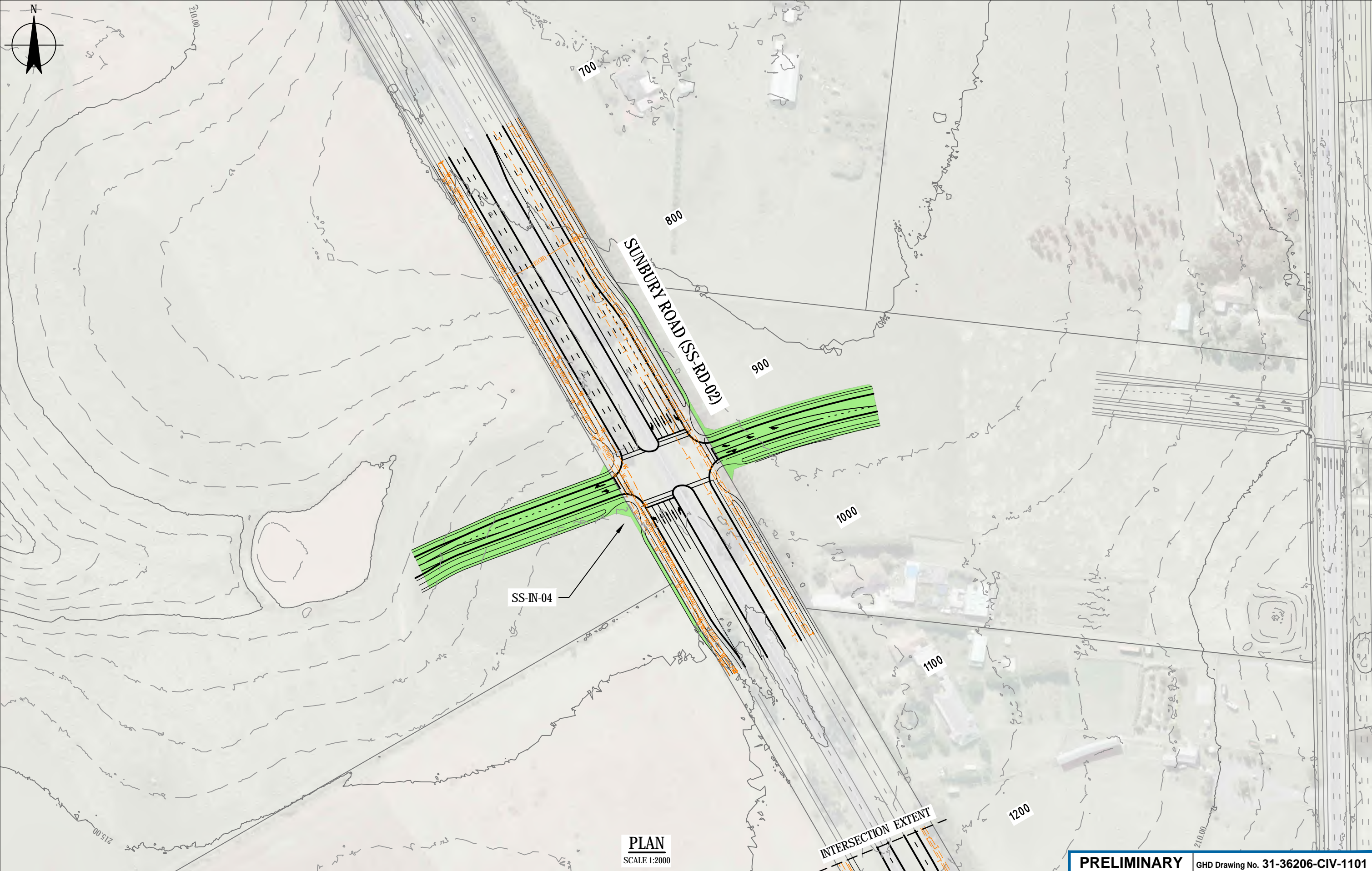
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Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	1:10000	This Drawing must not be used for Construction unless signed as Approved	

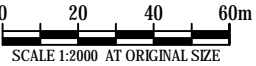
PRELIMINARY GHD Drawing No. 31-36206-CIV-1100

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **LAYOUT PLAN**
ULTIMATE LAYOUT
SS-RD-02

Original Size **A3** Drawing No: **2113308A-CIV-1100** Rev: **C**



D	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	08.10.19
C	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	08.08.19
B	AMENDED LIMIT OF WORKS TO MATCH PSP BOUNDARY	DH	GW	DH	DR
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director



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Drawn D.COMBEN

Designer G.KERR

Drafting Check

Design Check

Approved
(Project Director)
Date

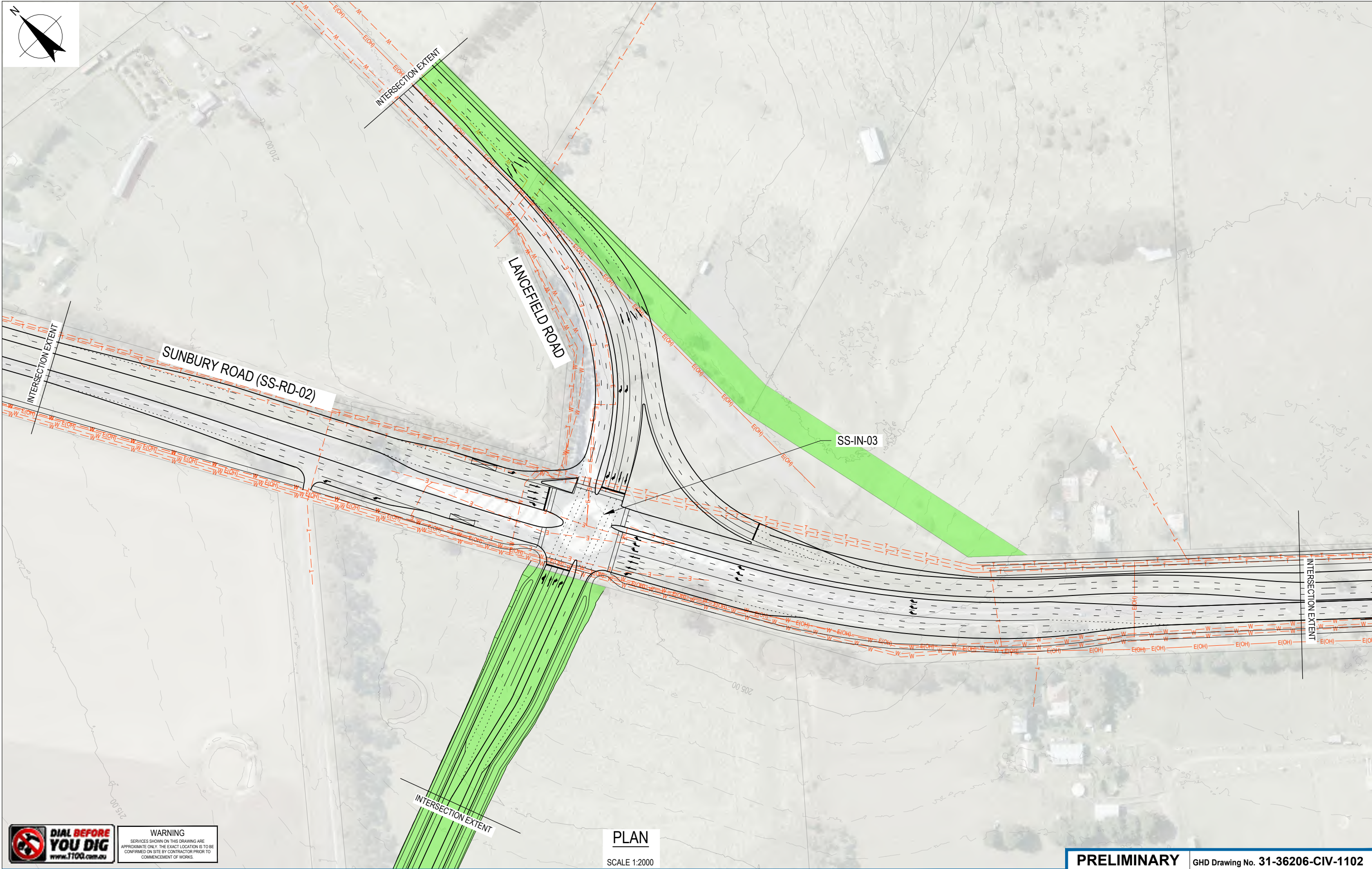
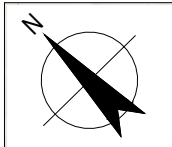
Scale 1:2000

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PRELIMINARY GHD Drawing No. 31-36206-CIV-1101

Project Title
**SUNBURY STH AND LANCEFIELD RD PSP
ALIGNMENT PLAN
ULTIMATE LAYOUT
SS-RD-02 SHEET 1**

Original Size
A3 Drawing No: 2113308A-CIV-1101 Rev: D



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PLAN

SCALE 1:2000

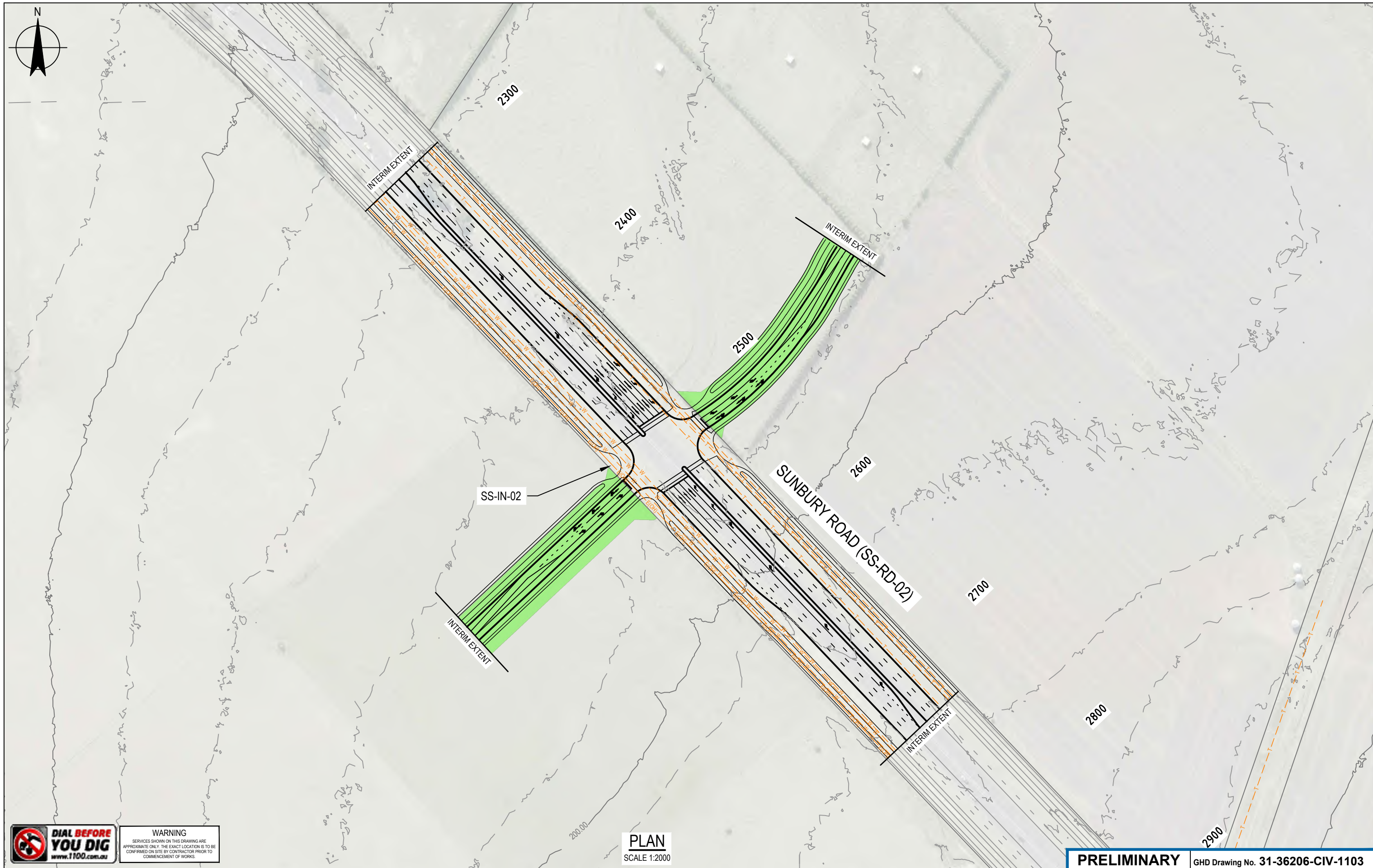
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E	AMENDED TO VPA COMMENTS - GHD		NV	LM*	MW*	23.10.19
D	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.10.19
C	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.08.19
B	AMENDED LIMIT OF WORKS TO MATCH PSP BOUNDARY		DH	GW	DH	DR
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



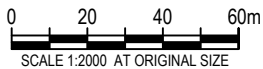
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	Designer	G.KERR
	Drafting Check	Design Check
	Approved (Project Director)	Date
Scale	1:2000	This Drawing must not be used for Construction unless signed as Approved

PRELIMINARY		GHD Drawing No. 31-36206-CIV-1102	
Project	SUNBURY STH AND LANCEFIELD RD PSP		
Title	ALIGNMENT PLAN ULTIMATE LAYOUT SS-RD-02 SHEET 2		
Original Size	A3	Drawing No: 2113308A-CIV-1102	Rev: F

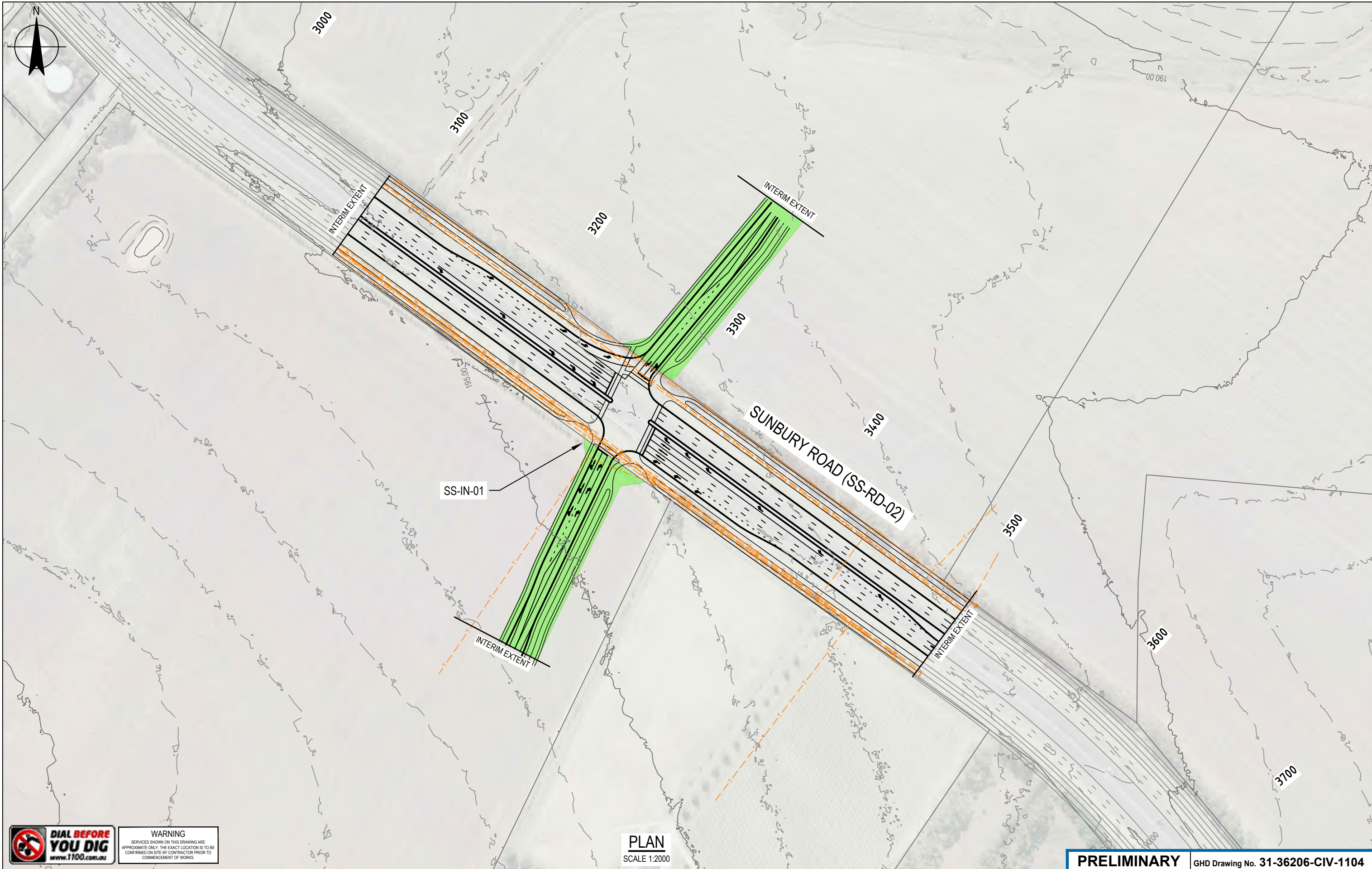


E	UPDATED TO VPA COMMENTS - GHD	SL	LM*	MW*	26.01.21	
D	UPDATED MEDIAN STRIP WIDTH - GHD	SL	LM*	MW*	20.01.21	
C	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	08.08.19	
B	AMENDED LIMIT OF WORKS TO MATCH PSP BOUNDARY	DH	GW	DH	DR	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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	Drafting		Design	
	Check		Check	
	Approved (Project Director)			
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		1:2000		

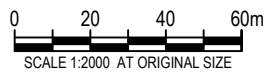
PRELIMINARY		GHD Drawing No. 31-36206-CIV-1103	
Project	SUNBURY STH AND LANCEFIELD RD PSP		
Title	ALIGNMENT PLAN		
	ULTIMATE LAYOUT		
	SS-RD-02 SHEET 3		
Original Size	A3	Drawing No:	2113308A-CIV-1103
		Rev:	E



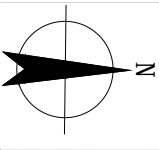
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PLAN
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E	UPDATED TO VPA COMMENTS - GHD		SL	LM*	MW*	26.02.21
D	UPDATED MEDIAN STRIP WIDTH - GHD		SL	LM*	MW*	20.01.21
C	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.08.19
B	AMENDED LIMIT OF WORKS TO MATCH PSP BOUNDARY		DH	GW	DH	DR
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



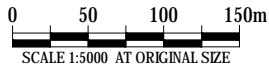
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		Approved (Project Director)		Date	
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Project Title		Original Size		Rev: E	
PRELIMINARY		GHD Drawing No. 31-36206-CIV-1104		Drawing No: 2113308A-CIV-1104	
SUNBURY STH AND LANCEFIELD RD PSP		ALIGNMENT PLAN		ULTIMATE LAYOUT	
				SS-RD-02 SHEET 4	



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F	AMENDED TO COMMENTS - GHD	SL	LM*	MW*	08.08.19
E	AMENDED TO VPA COMMENTS	DE	LM*	MW*	07.12.18
D	AMENDED TO VPA COMMENTS	TC	LM*	MW*	03.12.18
C	AMENDED TO VPA COMMENTS	DAC	LM*	MW*	27.07.18
B	RE-ISSUED FOR INFORMATION - GHD	DAC	GK*	MW*	30.05.18
No	Revision	Note: *	Indicates signatures on original issue of drawing or last revision of drawing		
Drawn	Project Manager	Project Director	Date		



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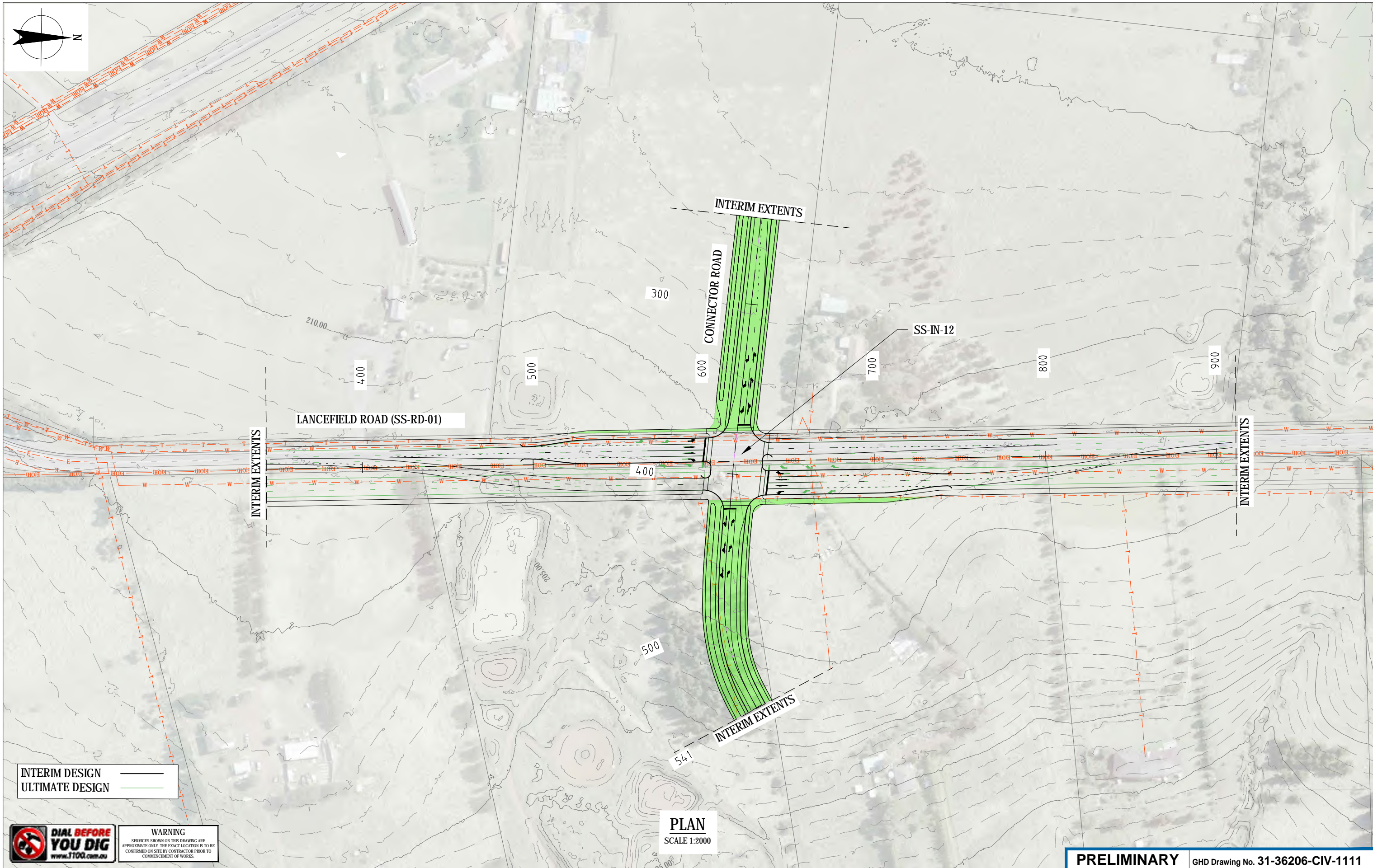
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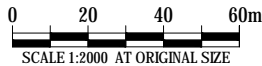
Drawn	D.COMBEN
Drafting Check	Designer G.KERR
Approved (Project Director)	Design Check
Date	
Scale	1:5000

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PRELIMINARY		GHD Drawing No. 31-36206-CIV-1110	
Project Title	SUNBURY STH AND LANCEFIELD RD PSP LAYOUT PLAN INTERIM LAYOUT LANCEFIELD ROAD (SS-RD-01)		
Original Size	A3	Drawing No: 2113308A-CIV-1110	Rev: F



G	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	12.08.19
F	AMENDED TO VPA COMMENTS - GHD		DE	LM*	MW*	11.12.18
E	AMENDED TO VPA COMMENTS - GHD		DRE	LM*	MW*	03.12.18
D	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	02.08.18
C	ISSUED FOR REVIEW - GHD		DAC	GK*	MW*	05.06.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Drawn D.COMBEN Designer G.KERR

Drafting Check

Design Check

Approved (Project Director)

Date

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PRELIMINARY GHD Drawing No. 31-36206-CIV-1111

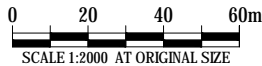
Project Title
SUNBURY STH AND LANCEFIELD RD PSP
ALIGNMENT PLAN
INTERIM LAYOUT
LANCEFIELD ROAD (SS-RD-01) SHEET 1

Original Size A3 Drawing No: 2113308A-CIV-1111

Rev: G



C	AMENDED TO COMMENTS & INTERIM LAYOUT ADDED - GHD	SL	LM*	MW*	12.08.19
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director



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Drawn D.COMBEN

Designer G.KERR

Drafting Check

Design Check

Approved
(Project Director)
Date

Scale 1:2000

This Drawing must not be
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signed as Approved

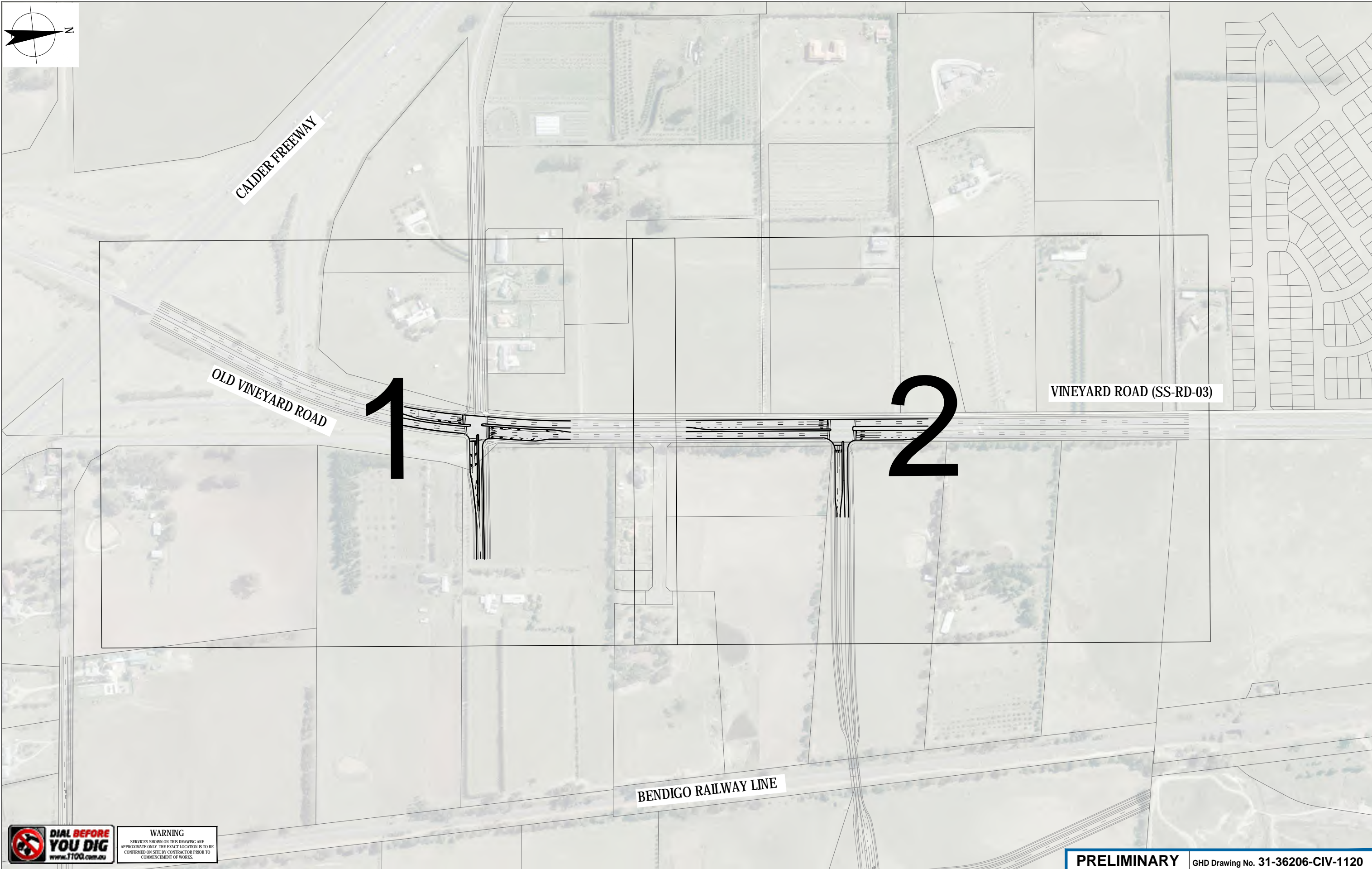
PRELIMINARY

GHD Drawing No. 31-36206-CIV-1112

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **ALIGNMENT PLAN**
INTERIM LAYOUT
LANCEFIELD ROAD (SS/LR-RD-01) SHEET 2

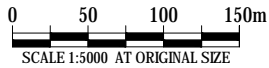
Original Size **A3** Drawing No: **2113308A-CIV-1112**

Rev: **C**



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B	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	08.08.19
A	AMENDED TO VPA COMMENTS - GHD	DH	LM*	MW*	27.05.19
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director



DO NOT SCALE

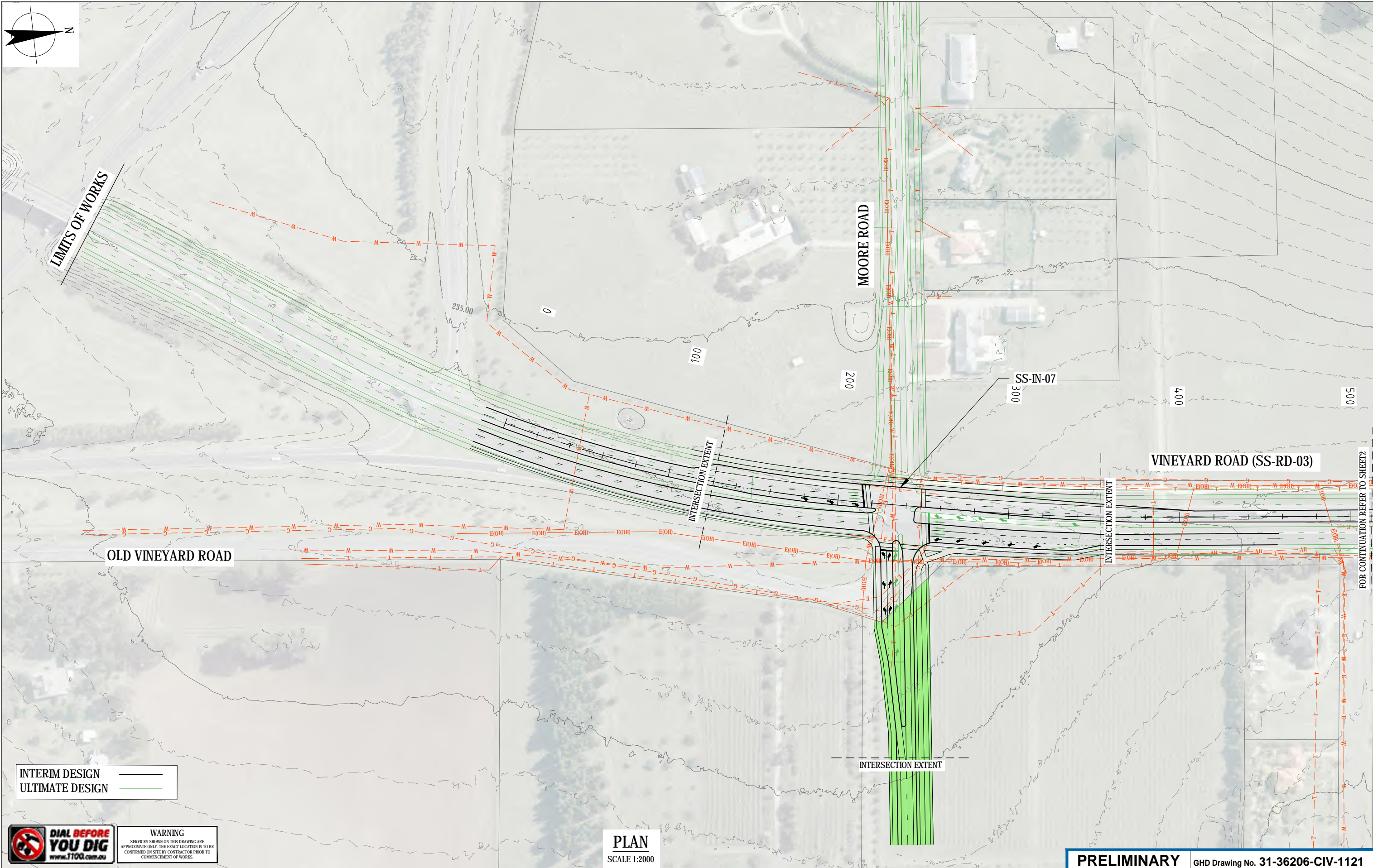
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Drawn	A. PRIMUS	Designer	M. BISHOP
Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	1:5000	This Drawing must not be used for Construction unless signed as Approved	

PRELIMINARY GHD Drawing No. 31-36206-CIV-1120

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **LAYOUT PLAN**
ULTIMATE LAYOUT
VINEYARD ROAD (SS-RD-03)

Original Size **A3** Drawing No: **2113308A-CIV-1120** Rev: **B**



J	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	21.10.19
I	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	12.08.19
H	AMENDED TO VPA COMMENTS - GHD	DE	LM*	MW*	19.12.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director



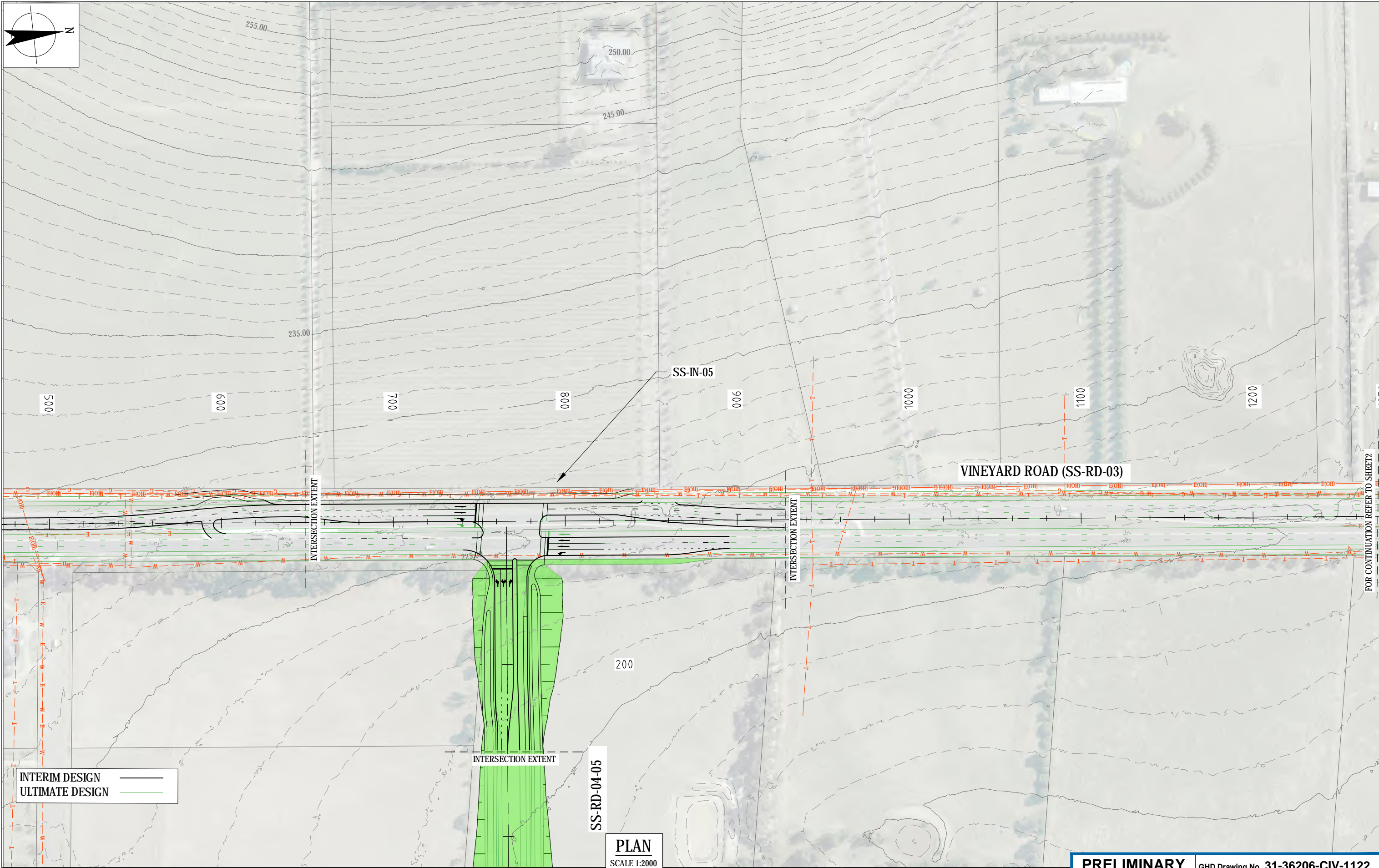
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Drafting Check		Design Check	
Approved (Project Director)			
Date			
Scale	1:2000		

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Project	SUNBURY STH AND LANCEFIELD RD PSP
Title	ALIGNMENT PLAN INTERIM LAYOUT VINEYARD ROAD (SS-RD-03) SHEET 1
Original Size	A3
Drawing No:	2113308A-CIV-1121
Rev:	J

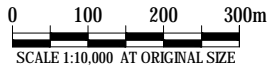


PRELIMINARY										GHD Drawing No. 31-36206-CIV-1122																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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G	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.08.19
F	UPDATED JACKSON HILL LINK OPTION		SL	LM*	MW*	08.02.19
E	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	02.08.18
D	ISSUED FOR REVIEW - GHD		DAC	GK*	MW*	05.06.18
C	UPDATED TO INCLUDE JACKSONS HILL OPTION 2 - PB		GW	-	-	25.07.16
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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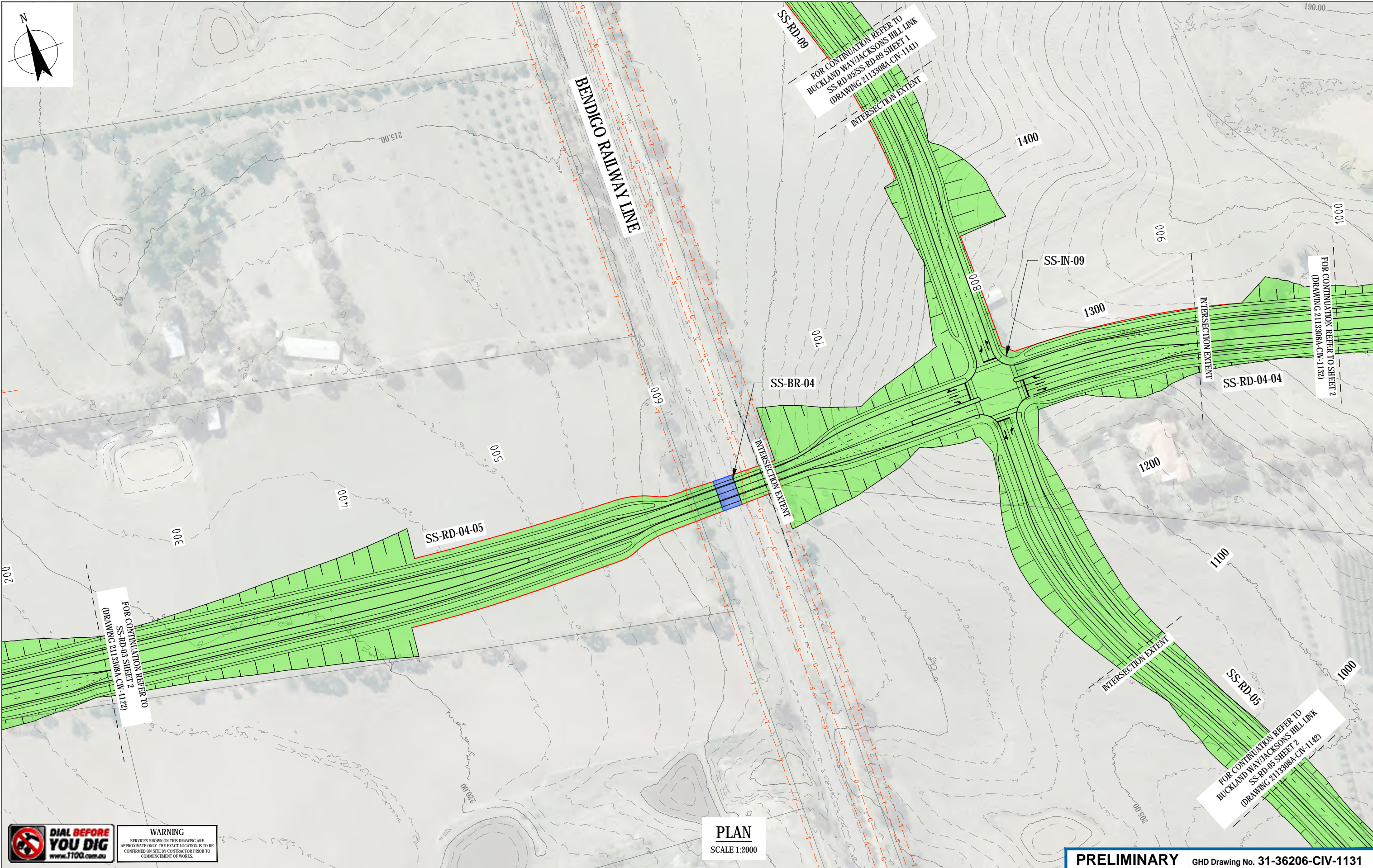
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Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	1:10000	This Drawing must not be used for Construction unless signed as Approved	

PRELIMINARY GHD Drawing No. 31-36206-CIV-1130

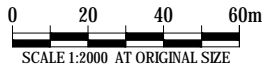
Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **LAYOUT PLAN**
ULTIMATE LAYOUT
SS-RD4

Original Size **A3** Drawing No: **2113308A-CIV-1130** Rev: **G**



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J	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	18.09.19
I	UPDATED VPA PROJECT NUMBERS		SL	LM*	MW*	08.08.19
H	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	06.08.19
G	AMENDED TO COMMENTS - GHD		SL	LM*	MW*	08.02.19
F	AMENDED TO VPA COMMENTS - GHD		AP	LM*	MW*	02.08.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	1:2000		

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PRELIMINARY

GHD Drawing No. 31-36206-CIV-1131

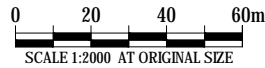
Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **ALIGNMENT PLAN**
ULTIMATE LAYOUT
SS-RD-04 SHEET 1

Original Size **A3** Drawing No: **2113308A-CIV-1131**

Rev: J



I	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	18.09.19	
H	UPDATED VPA PROJECT NAMES	SL	LM*	MW*	08.08.19	
G	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	06.08.19	
F	AMENDED TO VPA COMMENTS - GHD	DAC	LM*	MW*	02.08.18	
E	ISSUED FOR REVIEW - GHD	DAC	GK*	MW*	05.06.18	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Drawn D.COMBEN Designer G.KERR

Drafting Check Design Check

Approved (Project Director)

Date

Scale 1:2000

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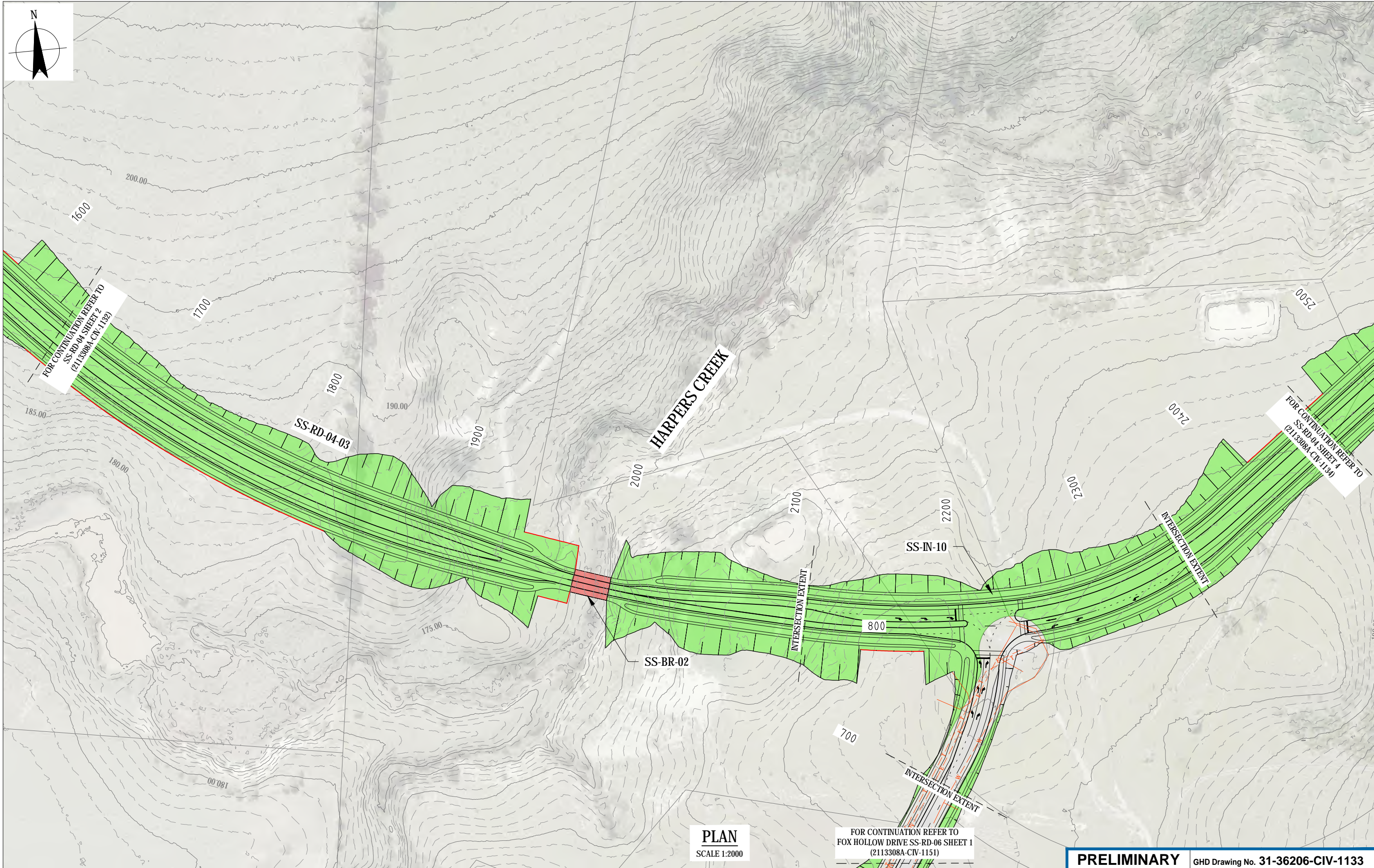
PRELIMINARY

GHD Drawing No. 31-36206-CIV-1132

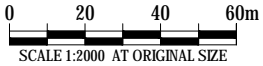
Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **ALIGNMENT PLAN**
ULTIMATE LAYOUT
SS-RD-04 - SHEET 2

Original Size **A3** Drawing No: **2113308A-CIV-1132**

Rev: I



N	UPDATED HATCHING	SL	LM*	MW*	18.09.19
M	UPDATED VPA PROJECT NAMES	SL	LM*	MW*	08.08.19
L	AMENDED TO VPA COMMENTS - GHD	SL	LM*	MW*	06.08.19
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director



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Drawn A. PRIMUS

Designer G. KERR

Drafting Check

Design Check

Approved (Project Director)

Date

Scale 1:2000

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GHD Drawing No. 31-36206-CIV-1133

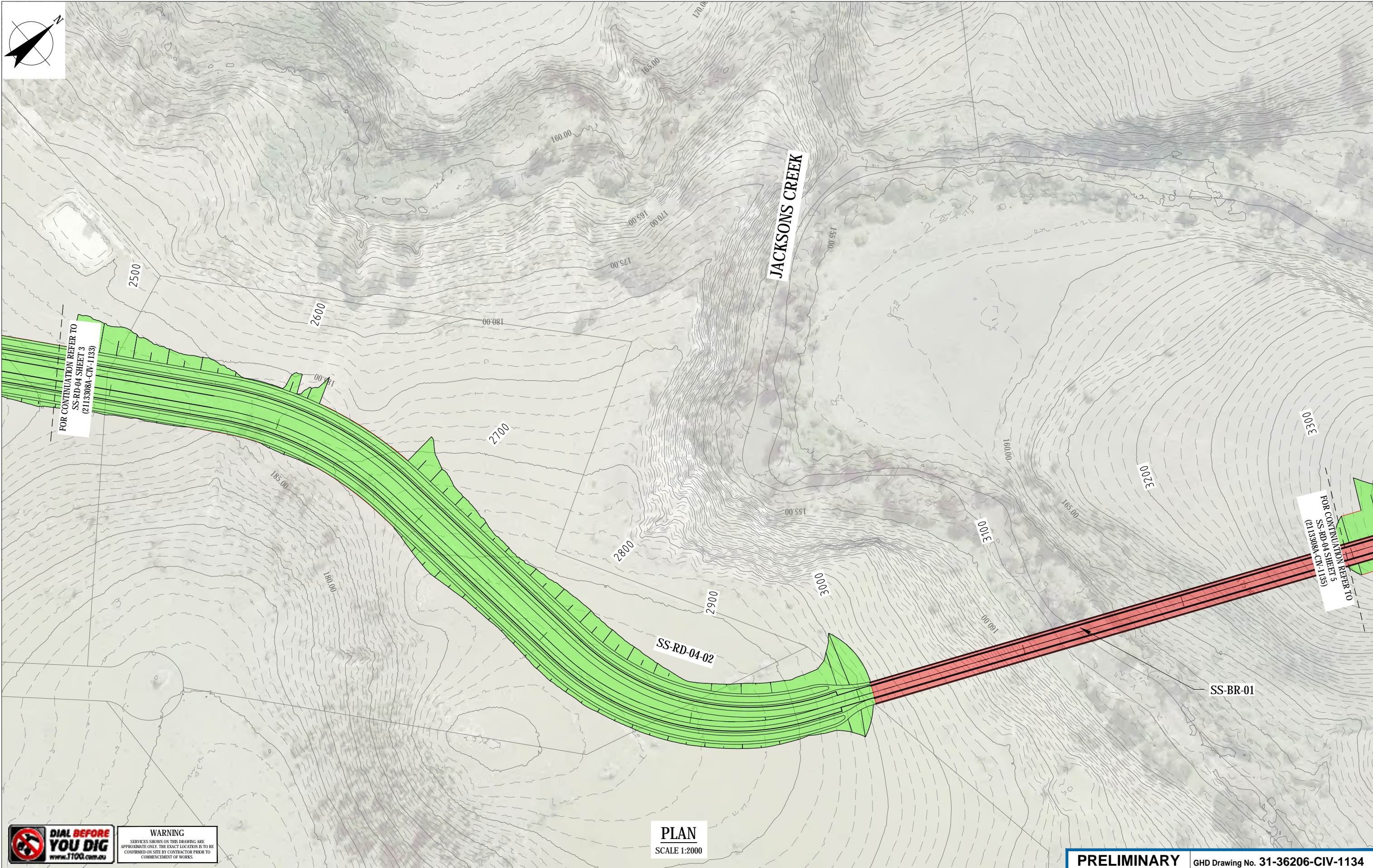
Project
Title
**SUNBURY STH AND LANCEFIELD RD PSP
ALIGNMENT PLAN
ULTIMATE LAYOUT
SS-RD-04 SHEET 3**

Original Size

A3

Drawing No: **2113308A-CIV-1133**

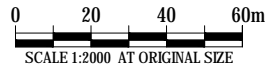
Rev: **N**



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SCALE 1:2000

J	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	18.09.19
I	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.08.19
H	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	02.08.18
G	ISSUED FOR REVIEW - GHD		JT	LM*	MW*	13.07.18
F	ISSUED FOR REVIEW - GHD		DAC	GK*	MW*	05.06.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Drafting Check		Design Check	
Approved (Project Director)			
Date			
Scale	1:2000	This Drawing must not be used for Construction unless signed as Approved	

PRELIMINARY	GHD Drawing No. 31-36206-CIV-1134		
Project	SUNBURY STH AND LANCEFIELD RD PSP		
Title	ALIGNMENT PLAN ULTIMATE LAYOUT SS-RD-04 SHEET 4		
Original Size	A3	Drawing No:	2113308A-CIV-1134
		Rev:	J

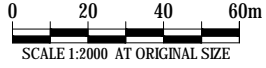


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PLAN
SCALE 1:2000

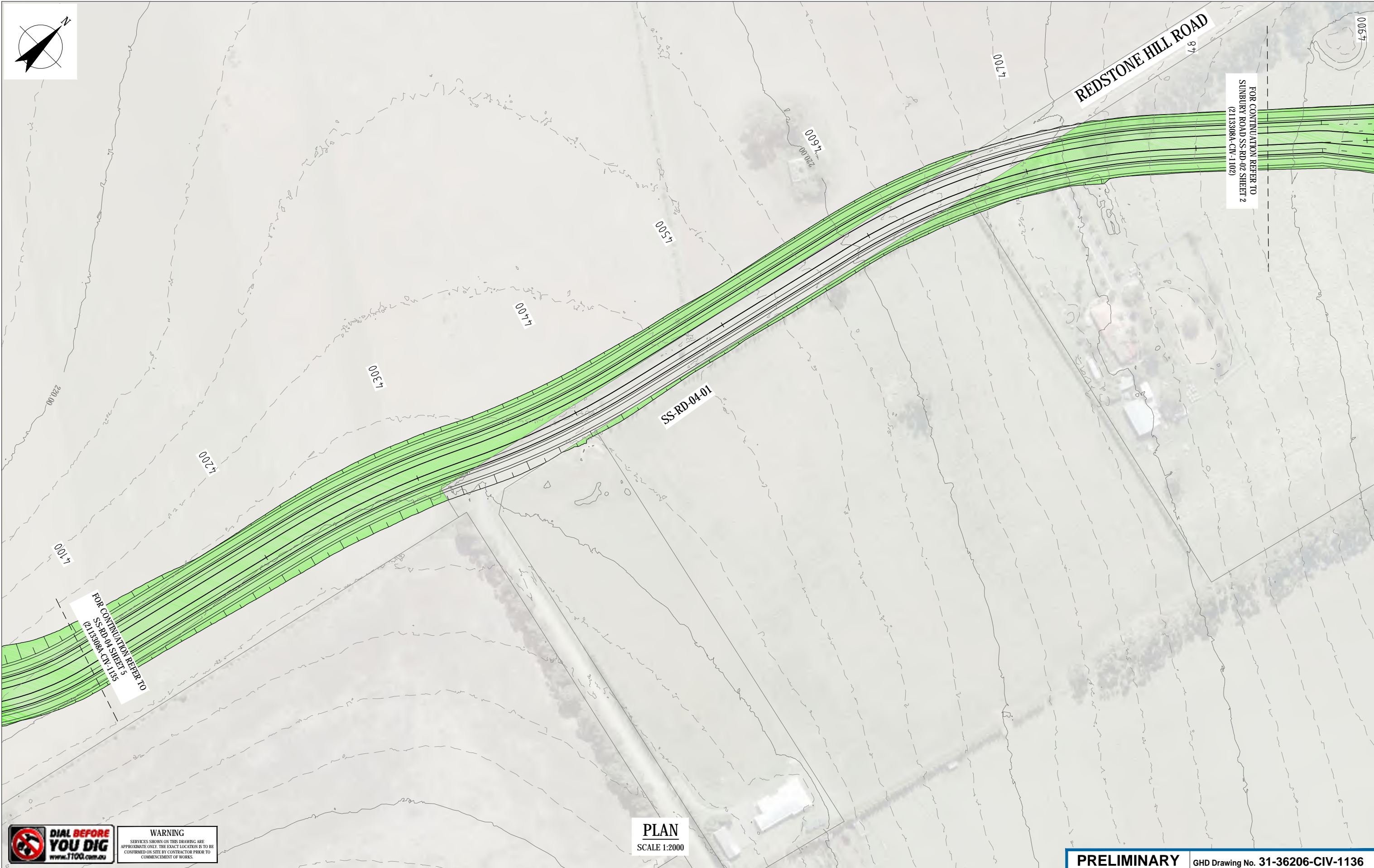
FOR CONTINUATION REFER TO
SS-RD-04 SHEET 6
(2113308A-CIV-1136)

H	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	18.09.19
G	AMENDED TO VPA COMMENTS - GHD		SL	LM*	MW*	08.08.19
F	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	02.08.18
E	ISSUED FOR REVIEW - GHD		JT	LM*	MW*	16.07.18
D	ISSUED FOR REVIEW - GHD		DAC	GK*	MW*	05.06.18
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



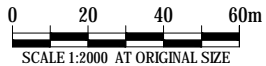
DO NOT SCALE	Drawn A. PRIMUS	Designer G. KERR
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	Approved (Project Director)	
	Date	
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PRELIMINARY	GHD Drawing No. 31-36206-CIV-1135		
Project Title	SUNBURY STH AND LANCEFIELD RD PSP ALIGNMENT PLAN ULTIMATE LAYOUT SS-RD-04 SHEET 5		
Original Size A3	Drawing No: 2113308A-CIV-1135	Rev: H	



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H	AMENDED TO VPA COMMENTS - GHD		SL	LM*		08.08.19
G	AMENDED TO VPA COMMENTS - GHD		DE	LM		28.09.18
F	AMENDED TO VPA COMMENTS - GHD		DE	LM		26.09.18
E	AMENDED TO VPA COMMENTS - GHD		DAC	LM*	MW*	05.06.18
D	ISSUED FOR REVIEW - GHD		DAC	-	-	06.10.16
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Project Manager	Project Director	Date



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Drawn D.EWERT

Drafting Check

Approved (Project Director)

Date

Scale 1:2000

Designer M. BISHOP

Design Check

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GHD Drawing No. 31-36206-CIV-1136

Project **SUNBURY STH AND LANCEFIELD RD PSP**
Title **ALIGNMENT PLAN**
ULTIMATE LAYOUT
SS-RD-04 SHEET 6

Original Size **A3** Drawing No: **2113308A-CIV-1136**

Rev: H