1 May 2024

ARTC REF# 3-0000-210-EAP-00-LT-0002-DH

Mr Alexander Scott
(Attn: Max Obiakor)
Director Freight Team
Freight Assessment and Management
Department of Planning, Housing and Infrastructure

Via Major Projects Planning Portal

Dear Max

Inland Rail – Albury to Illabo (SSI-10055)
Response to request for additional information – Air Quality Assessment

We write in response to the Department's letter of 18 April 2024 seeking additional information on air quality matters. Please refer below and to the attachments for our response to the Department's request.

Additional information request

Mapping of sensitive receivers near idling sites showing location and type of receivers and respective distances from the idling sites.

Response

Network configuration and potential idling sites

The Albury to Illabo Project is for the enhancement of infrastructure along the existing Main South Line (also known as the North-South Corridor). The line runs from Sydney to Melbourne. Dual track runs between Sydney and Junee, with single track largely present between Junee and Albury. Along this section there are a number of passing lanes as well as crossing loops that allow a train to move off the single track into loop and let another train pass on the mainline. The Network Diagram (Attachment 1) illustrates this arrangement (also available at https://www.artc.com.au/customers/maps/system/sydney-craigieburn). The Network Information Book (Attachment 2) provides more detailed information including the location of signals (see https://www.artc.com.au/customers/operations/nib).

ARTC's operational objectives include the maximisation of train movement and minimisation of stoppages and idling. For operational efficiency, the preference for crossing trains is within a passing lane, with loops used where necessary. Passing lanes are generally up to 7.0km in length and are in place five (5) locations between Junee and Albury. A passing lane offers the opportunity for a 'running cross' where one train enters the passing lane and can continue moving while the other train continues moving on the mainline. However, based on the timing of each train approaching the signals, a running cross may not be possible and the train in the passing lane may need to become stationary and idle. It is emphasised that not every train crossing results in an idling locomotive scenario.

Inland Rail

Australian Rail Track Corporation Ltd
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Crossing loops vary in size but are generally up to 2.0km in length and are located with yards (e.g. stations / freight sidings). Most yards allow for train crossing (and therefore idling), e.g. one on the platform road while one crosses on the mainline. It is generally not time tabled for trains to cross in a yard but as the operation of the network is a live run environment, a delay to the XPT passenger service may be mitigated by standing a freight train or lower priority train in a yard to allow the XPT to cross. The other activity where a train might idle at a yard is for driver changeover at the end of the shift. This only happens at certain yards and is managed by the locomotive operators.

Inland Rail is not creating or extending the passing lanes. Works to crossing loops are necessary in various locations to achieve double-stacked clearances, with only minor alterations to loop lengths.

Mapping of predicted affected distances and receiver categorisation

Mapping of the predicted affected distances of NOx are provided in Attachment 2, including categorisation of the receiver types. These show the potential effects of idling trains, and the potential effects of a passing train with an idling train present.

The mapping of locations represents the up and down track signals of the loop or passing lane where a train could stop. This does not necessarily mean a train would stop at a location during every day operations, as each day's operational pattern differs. The locations are shown below.

Table 1 Locations of crossing loops and passing lanes

Location	South (Down)	North (Up)	Length (km)	Type	Context
Albury Platform Road and Loop Road	646.546	645.475	1.1	Crossing loop	Urban
Albury Run Round Road and Coal Road	646.552	644.709	1.8	Crossing loop	Urban
Gerogery Loop Up	623.216	616.197	7.0	Passing lane	Rural
Culcairn Loop Up	597.142	595.836	1.3	Crossing loop	Rural
Culcairn Passing Lane	595.646	588.847	6.8	Passing lane	Rural
Henty Loop Down	581.182	580.055	1.1	Crossing loop	Rural
Yerong Creek Loop Up	567.679	560.515	7.2	Passing lane	Rural
The Rock Loop Down	551.419	550.343	1.1	Crossing loop	Rural
The Rock Loop Up	551.018	550.045	1.0	Crossing loop	Rural
Uranquinty Loop Up	541.924	534.900	7.0	Passing lane	Rural
Wagga Wagga Loop Up	522.095	520.484	1.6	Crossing loop	Urban
Bomen Passing Lane	514.59	507.577	7.0	Passing lane	Rural
Harefield Loop Down	498.526	497.418	1.1	Crossing loop	Rural
Junee Platform Up Road	486.378	485.162	1.2	Crossing loop	Urban

The distances and number of potentially affected receivers illustrated on the mapping are consistent with Table 5.18 and Table 5.19 respectively of Appendix F – Addendum Assessment to Technical Paper 14: Air Quality of the Preferred Infrastructure Report – Response to Submissions Report. Extracts of these tables are reproduced below.

Table 5.18 Indicative exceedance distance for idling locations

Representative case study	Study area idling locations	Indicative distance for exceedance (m)
Urban – W2 idling train	Albury Platform Road and Loop Road Albury Run Round Road and Coal Road Wagga Wagga Loop Up Junee Platform Up Road	70
Urban – W3 idling +passing train	Albury Platform Road and Loop Road Albury Run Round Road and Coal Road Wagga Wagga Loop Up Junee Platform Up Road	120
Rural – C2 idling train	Gerogery Loop Up Culcairn Loop Up Culcairn Passing Lane Henty Loop Down Yerong Creek Loop Up The Rock Loop Down The Rock Loop Up Uranquinty Loop Up Bomen Passing Lane Harefield Loop Down	100
Rural – C3 idling +passing train	Gerogery Loop Up Culcairn Loop Up Culcairn Passing Lane Henty Loop Down Yerong Creek Loop Up The Rock Loop Down The Rock Loop Up Uranquinty Loop Up Bomen Passing Lane Harefield Loop Down	150

Table 5.19 Sensitive Receptors with potential for NO_2 1-hour exceedance

Representative case study	Study area idling locations	Sensitive receptors within maximum distance for potential exceedances
Urban – W3 idling +passing train	Wagga Wagga Case Study Area[1]	53
	Albury Platform Road and Loop Road	11
	Albury Run Round Road and Coal Road	3
	Wagga Wagga Loop Up	43
	Junee Platform Up Road	47
	TOTAL	**157**
Rural – C3 idling +passing train	Culcairn Case Study Area[2]	2
	Gerogery Loop Up	4
	Culcairn Loop Up	2
	Culcairn Passing Lane	4
	Henty Loop Down	1
	Yerong Creek Loop Up	0
	The Rock Loop Down	2
	The Rock Loop Up	20
	Uranquinty Loop Up	5
	Bomen Passing Lane	0
	Harefield Loop Down	0
	TOTAL	**40**

Note:
(1) Refer to Section 5.1.3
(2) Refer to Section 5.2.4

The mapping indicates the receiver type using available sensitive receiver data from late 2021. We note that buildings may have changed since this time, such as new residential developments in urban areas. Aerial photography of various dates is shown in the mapping and may not correlate with the receiver data set.

As outlined in the Addendum Air Quality Assessment, the approach taken results is a conservative analysis. Consequently, the mapping illustrates potential air quality impacts dependant on the simultaneous occurrences required to generate 1-hour NOx exceedances as discussed in the Addendum Assessment.

Attachments

Please refer to the following attachments:

1. North South Corridor Network Diagram
2. Network Information Book extract
3. A2I Idling locations and predicted affected distances for NOx

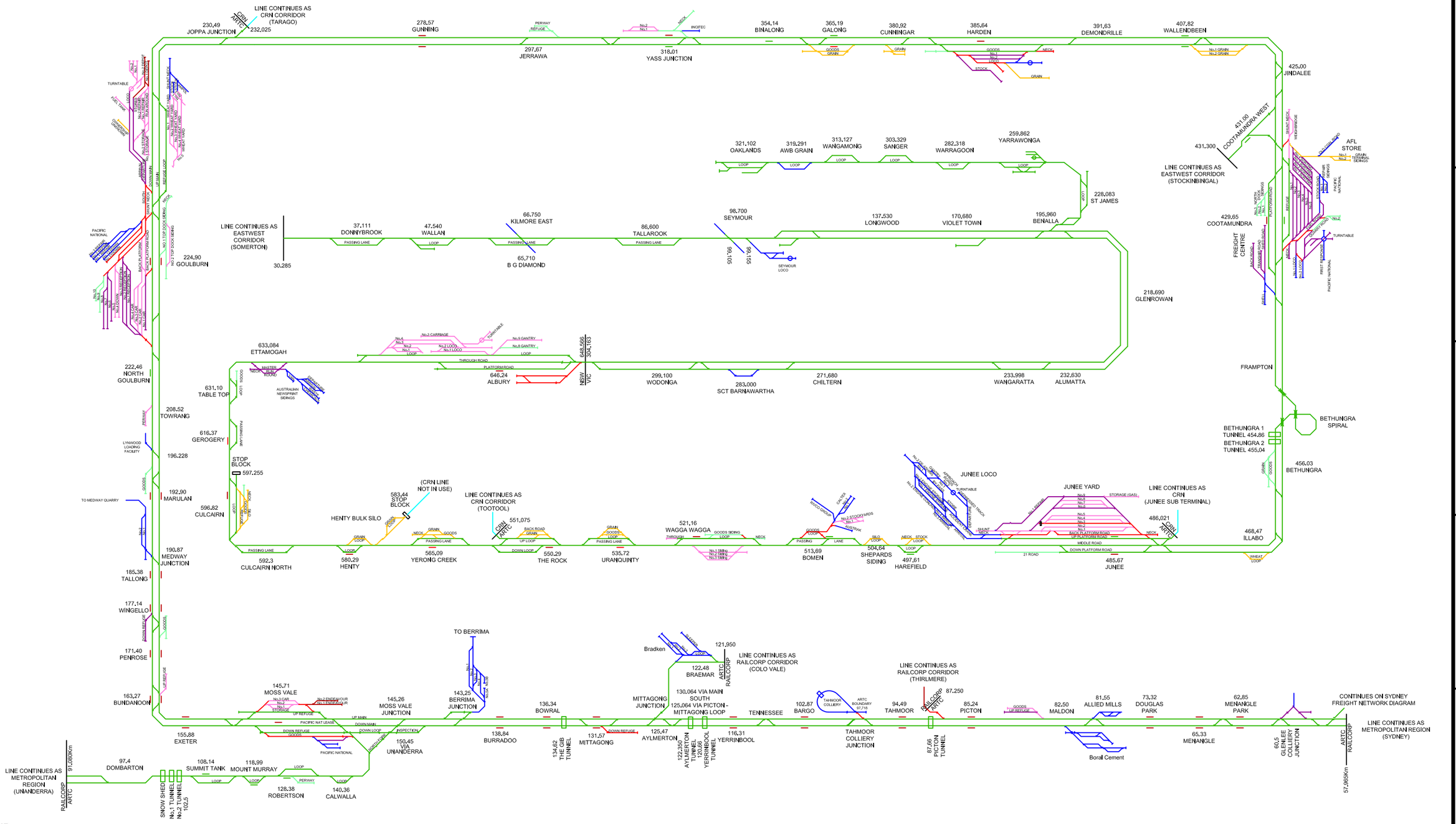
Next Steps

We trust the attached provides the Department with sufficient information to progress consideration of this aspect of the proposal. If you wish to discuss any of the above further, please contact Wayne Window on 0447 553 401 or at wwindow@artc.com.au.

Yours sincerely

Wayne Window
Environment Manager – NSW & Victoria

Attachment 1. North South Corridor Network Diagram



LEGEND

- Leased Sidings
- ARTC LEASE NETWORK - MAIN CORRIDOR / STATIONS
- MULTI-USER SIDINGS
- SURPLUS TO OPERATIONAL REQ.-LEASE/CLOSURE
- COUNTRY REGIONAL NETWORK / STATION
- GRAIN AND SUPPORT SIDINGS
- ASSET MANAGEMENT STORAGE
- RAILCORP / STATION
- PRIVATE SIDINGS

STANDARD GAUGE
BROAD GAUGE
MIXED GAUGE

Used on / Next higher assembly: ASSEMBLY

Filename: ARTCS3090006001.DWG

Alternate DMS number:

Rev	Date	Revision Description	Designed	Checked	Ind. Rev.	Approv.
14	Jun 19	E/W & N/S corridor boundary updated, Summit Tank perway siding, Frampton, Douglas Park & Towrang				
		crossovers removed & SCT Barnawartha siding and Chiltern crossover added				
13	Jun 15	Various corrections & addition of Seymour loco depot				
12	Dec 14	Redundant infrastructure removed at Marinna				
11	Jun 14	Crossovers added Menangle and Glenlee				
10	Dec 13	Marulan goods siding rationalised				
9	Sep 13	Decommissioned Junee north fork crossover removed				
8	Jun 13	Lynwood siding added 196.228km				

Designing Company:

Designed DATE

Checked DATE

Ind.Rev. Company Ind.Rev. Name

Review Signature DATE

ARTC APPROVAL
Approved By
Signed:
Approval Date

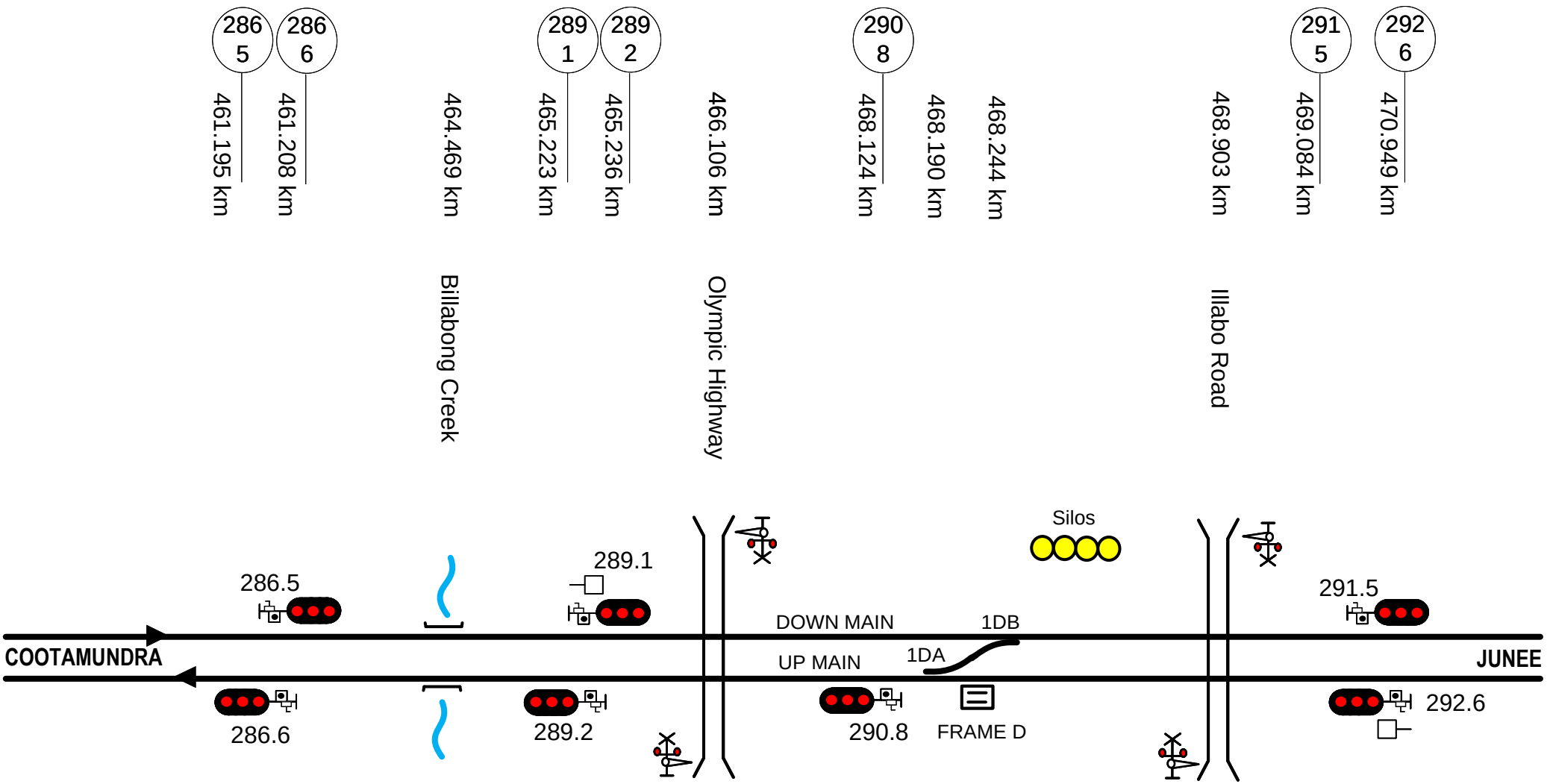
ARTCS3090006

TITLE
NORTH SOUTH CORRIDOR NETWORK DIAGRAM - 1

Sheet No. 1 of 2

Scale: NTS

Attachment 2. Network Information Book extract



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	17/7/23	Forest Lodge crossing removed				
2	26/2/20	eTAP review updates				
1	1/2/19	Data verification changes updated	DBOCZ			

Designed	S KHAJOUI	2/9/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/9/16	Accepted by P CAMPBELL
Ind. Rev. Company	ARTC	Ind. Rev. Name	R RATH
Review Signature		2/9/16	Acceptance Date 2/9/16

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NIB-T0342

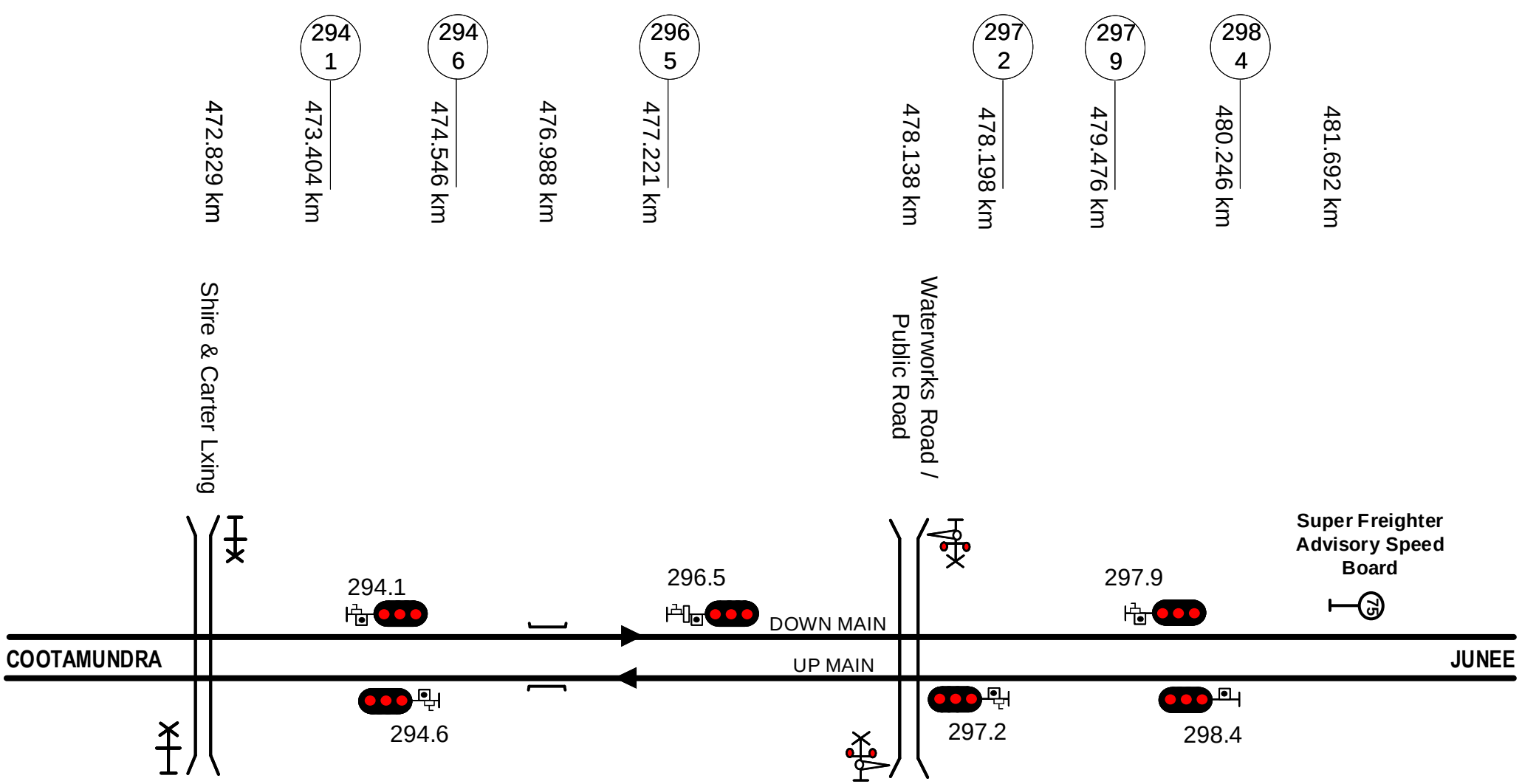
Sheet No 1 of 1

Scale NTS

Sheet Size A4

TITLE

ILLABO



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	22/1/21	Signal 299.6 moved to Junee diagram				
2	26/2/20	eTAP review updates				
1	26/2/19	Updated km's from verification spreadsheet	DBOCZ			

Designed	S KHAJOUI	2/9/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/9/16	Accepted by P CAMPBELL
Ind. Rev. Company	ARTC	Ind. Rev. Name	R RATH
Review Signature		2/9/16	Signed: Acceptance Date 2/9/16

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TITLE

ILLABO - JUNEE

NIB-T0343

Sheet No 1 of 1

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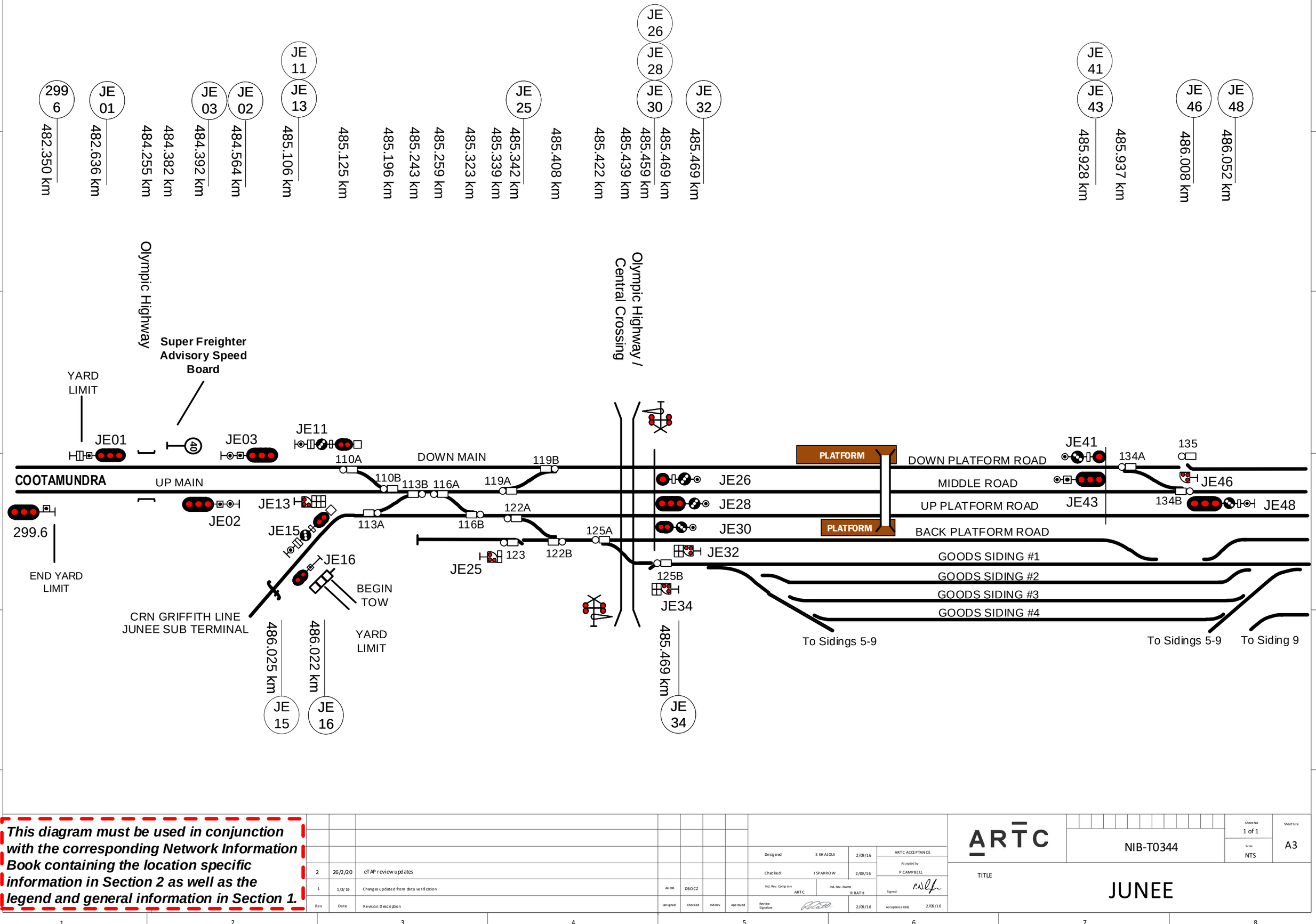
Sheet Size A4



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
2	26/2/20	eTAP review updates				
1	1/2/19	Changes updated from data verification	AGIBB	DBOCZ		

Designed	S KHAJOUI	2/09/16
Checked	J SPARROW	2/09/16
Ind. Rev. Company	ARTC	
Ind. Rev. Name	R RATH	
Review Signature		2/09/16

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Acceptance Date: 2/09/16

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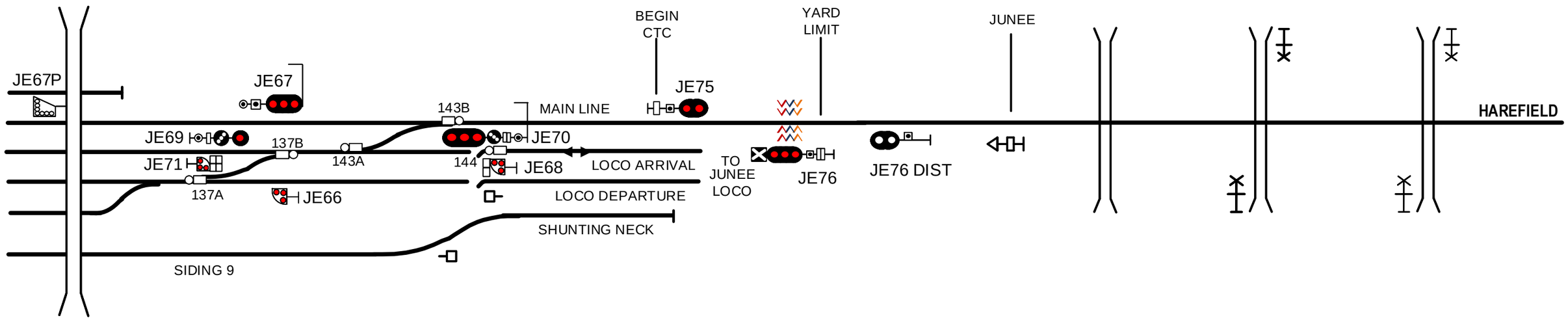
NIB-T0344

Sheet No: 1 of 1
Sheet Size: A3
Scale: NTS

TITLE

JUNEE



JE67 486.292 km

JE66 486.282 km

JE71 486.209 km

JE69 486.211 km

486.250 km

JE68 486.363 km

JE70 486.393 km

JE75 486.591 km

JE76 488.619 km

488.609 km Wayside monitoring

JE76 DIST 490.252 km

491.121 km JUNEE

491.976 km Lords Private Lxing

494.765 km Dullator Pastoral

496.020 km Old Wagga Road

486.122 km Kemp Street

This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	20/1/22	Crossover removed and sidings updated				
2	1/2/19	Data verification updates included.	AG IBB	DBO CZ		
1	24/2/17	Wayside equipment added				

Designed S KHAJOUI 2/09/16
Checked J SPARROW 2/09/16
Ind. Rev. Company ARTC
Ind. Rev. Name R RATH
Review Signature 2/09/16

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Acceptance Date 2/09/16

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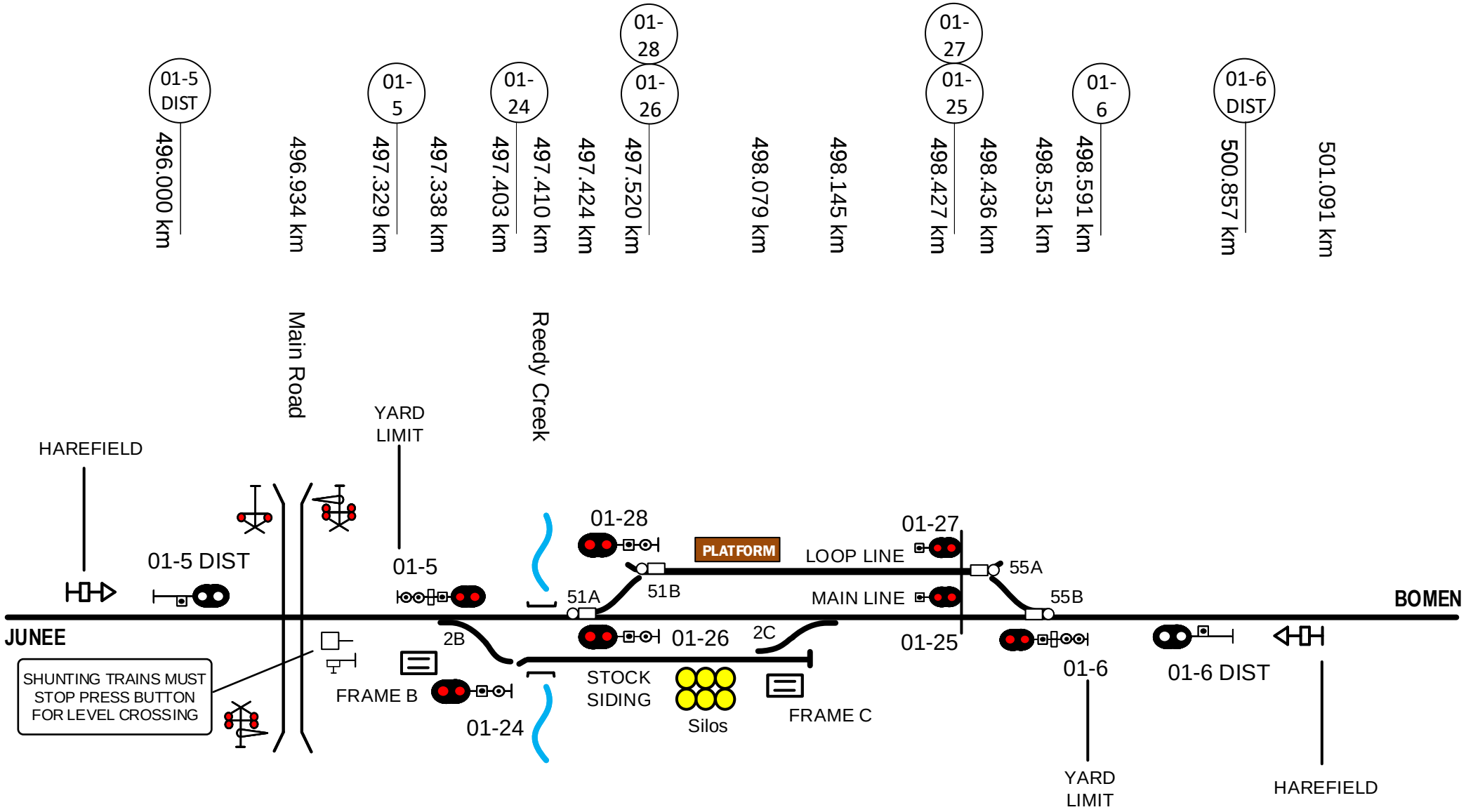
NIB-T0345

Sheet No 1 of 1
Sheet Size A3
Scale NTS

TITLE

JUNEE SOUTH



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
4	6/7/20	Main Road crossing protection updated				
3	21/4/20	eTAP review updates				
2	19/2/19	Signal 01-5 Dist was duplicated at 500.857 km – changed to 01-6 Dist	DBOCZ			
1	01/2/19	Update km's from verification spreadsheet	DBOCZ			

Designed	S KHAJOUI	2/9/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/9/16	Accepted by P CAMPBELL
Ind. Rev. Comp an y ARTC	Ind. Rev. Name R RATH		Signed:
Review Signature		2/9/16	Acceptance Date 2/9/16

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NIB-T0346

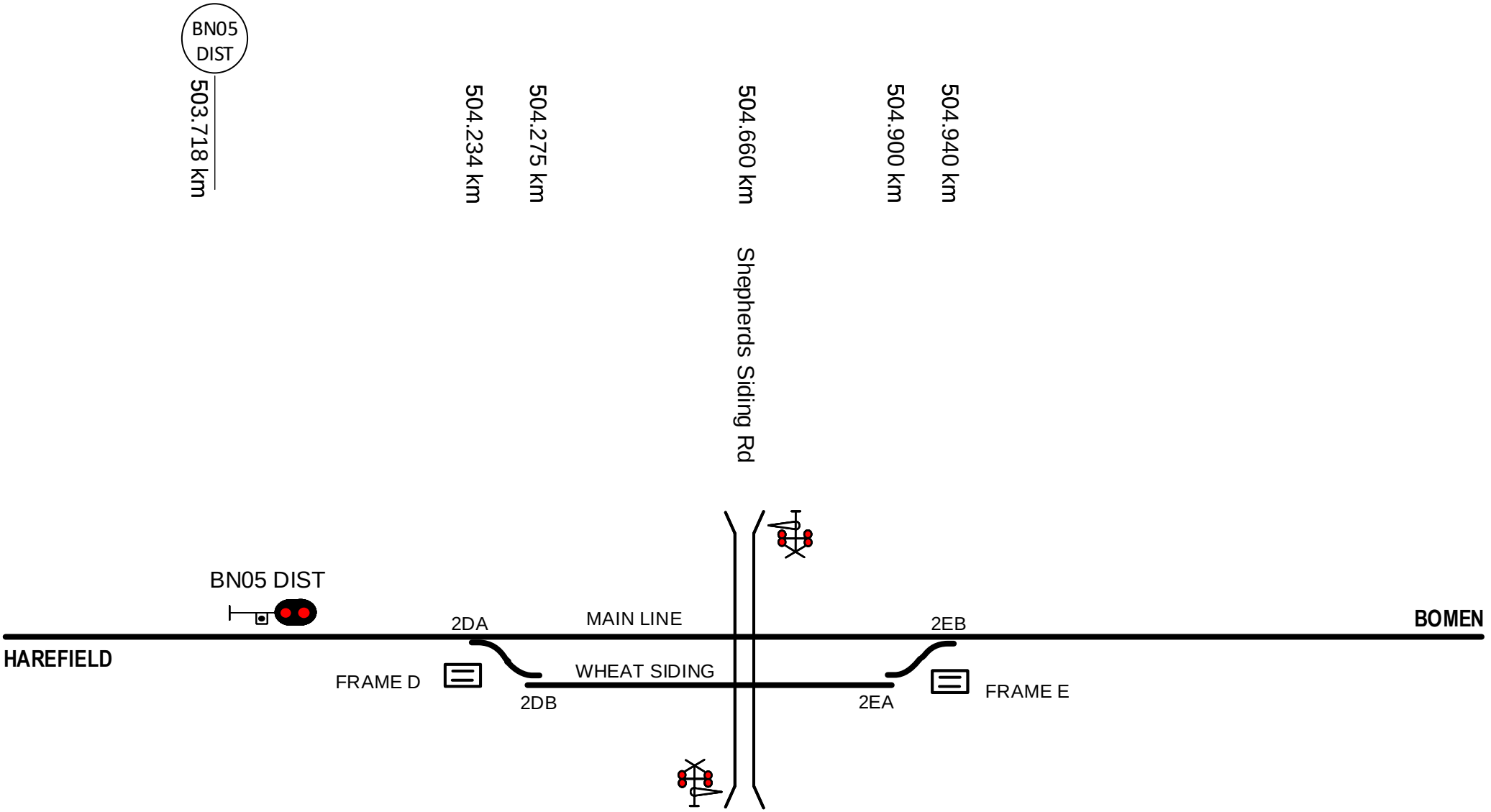
Sheet No 1 of 1

Sheet Size A4

Scale NTS

TITLE

HAREFIELD



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
1	21/4/20	eTAP review updates				

Designed	S KHAJOUI	2/9/16
Checked	J SPARROW	2/9/16
Ind. Rev. Company	ARTC	Ind. Rev. Name R RATH
Review Signature		2/9/16

ARTC ACCEPTANCE
Accepted by P CAMPBELL
Signed:
Acceptance Date 2/9/16

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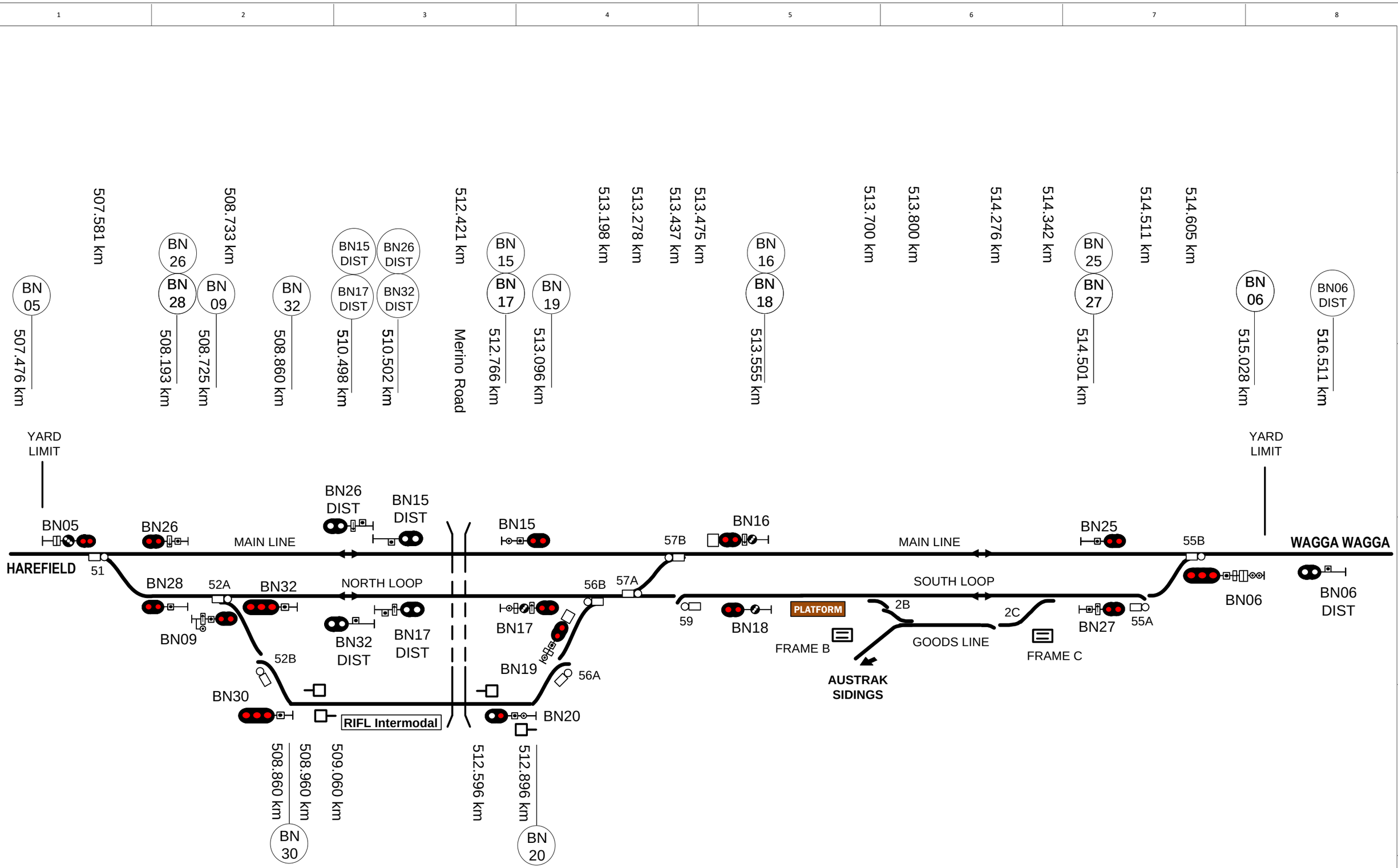
NIB-T0347

Sheet No 1 of 1
Scale NTS
Sheet Size A4

TITLE

SHEPHERDS SIDING



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
6	31/10/22	Passing lane changed to North Loop & West Bomen Road updated to Merino Road				
5	31/5/22	Signals BN15, BN17 & BN19 updated				
4	3/2/22	Riverina Intermodal Terminal signs added & Austrak siding name corrected				
3	3/9/21	Riverina Intermodal Terminal details added				
2	21/4/20	eTAP review updates	DBOCZ			

Designed	S KHAJOUI	2/09/16
Checked	J SPARROW	2/09/16
Ind. Rev. Company	ARTC	Ind. Rev. Name R RATH
Review Signature		2/09/16

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Accepted by P CAMPBELL
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Acceptance Date 2/09/16

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TITLE

BOMEN

NIB-T0348

Sheet No 1 of 1
Scale NTS
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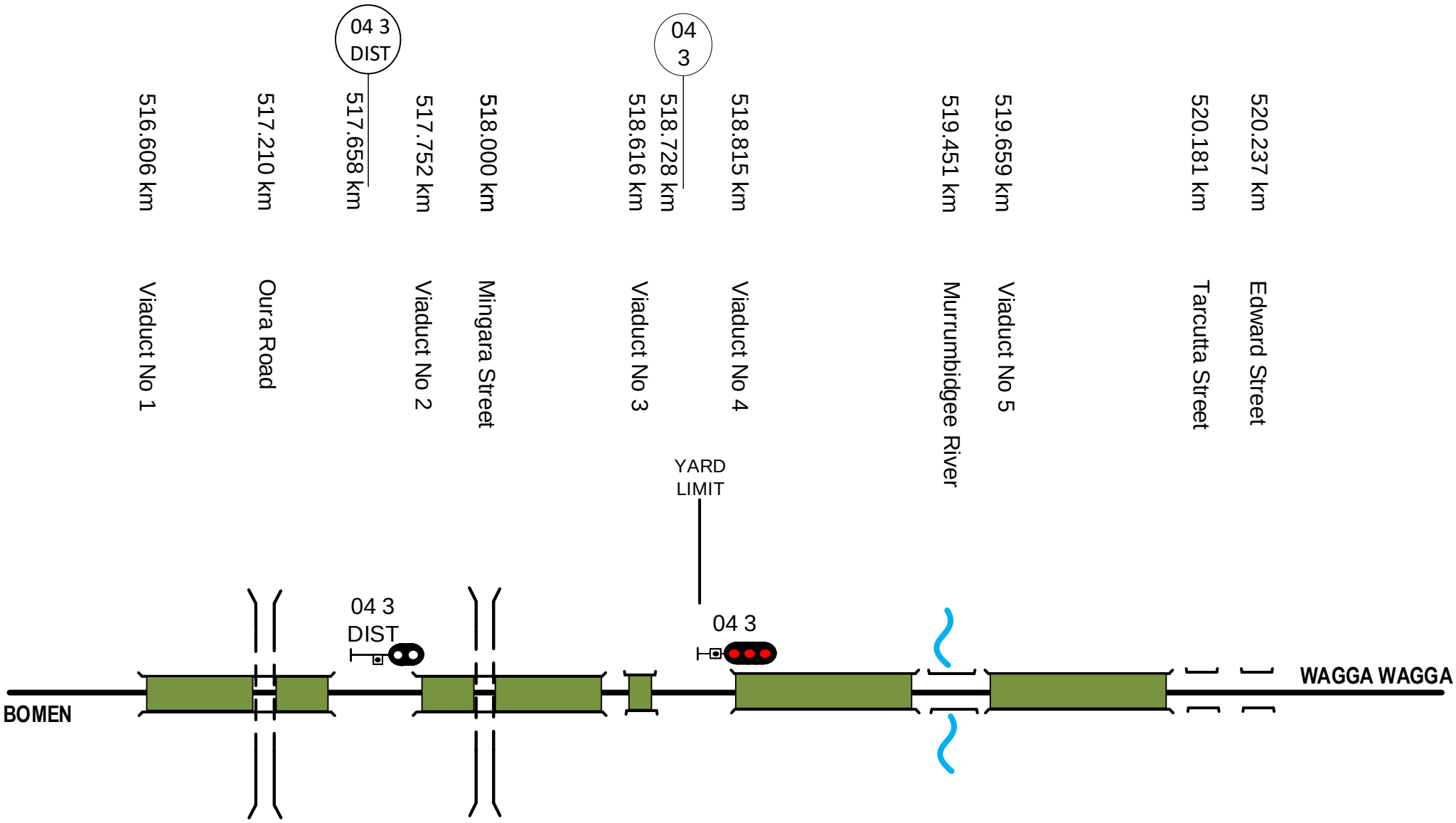

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Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
2	26/2/20	eTAP review updates				
1	27/2/19	Data verification changes updated	DBOCZ			

Designed	S KHAJOUI	2/9/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/9/16	Accepted by P CAMPBELL
Ind. Rev. Company	ARTC	Ind. Rev. Name	R RATH
Review Signature		2/9/16	Signed: Acceptance Date 2/9/16

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NIB-T0349

Sheet No 1 of 1

Scale NTS

Sheet Size A4

TITLE

BOMEN – WAGGA WAGGA

04 1
520.355 km

04 30
520.358 km

520.497 km

04 32
04 34
520.605 km

520.550 km

04 5
520.868 km

520.987 km

04 26
04 28
521.060 km

521.186 km

04 17
521.382 km

521.387 km

Station Footbridge

Edmondson Street

521.200 km

521.700 km

Cassidy Street Footbridge

04 25
04 27
522.015 km

522.030 km

04 12
522.123 km

522.100 km

04 6
522.412 km

522.393 km

Docker Street

04 29
523.301 km

523.520 km

Pearson Street

04 4
525.511 km

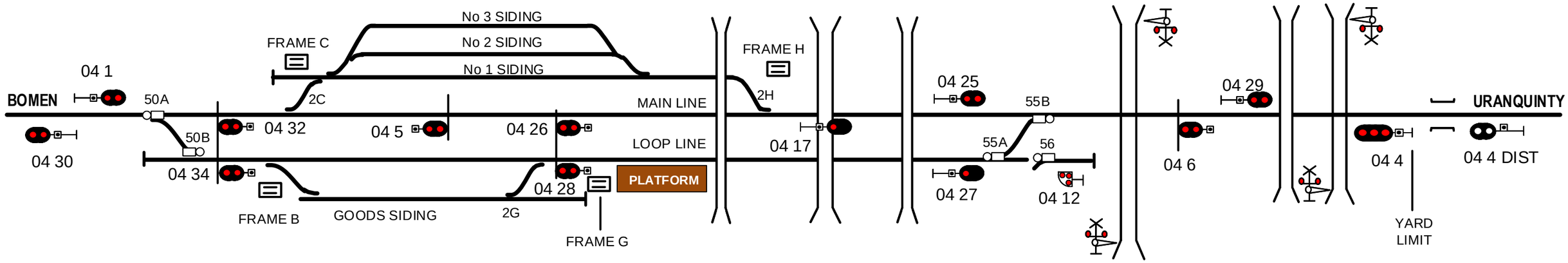
524.546 km

Fernleigh Road

04 4 DIST
527.988 km

525.922 km

Red Hill Road



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Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
2	21/4/20	eTAP review updates				
1	27/2/19	Data verification changes updated	AGIBB	DBOCZ		

Designed S KHAJOUI 2/09/16
Checked J SPARROW 2/09/16
Ind. Rev. Company ARTC
Ind. Rev. Name R RATH
Review Signature 2/09/16

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Accepted by P CAMPBELL
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Acceptance Date 2/09/16

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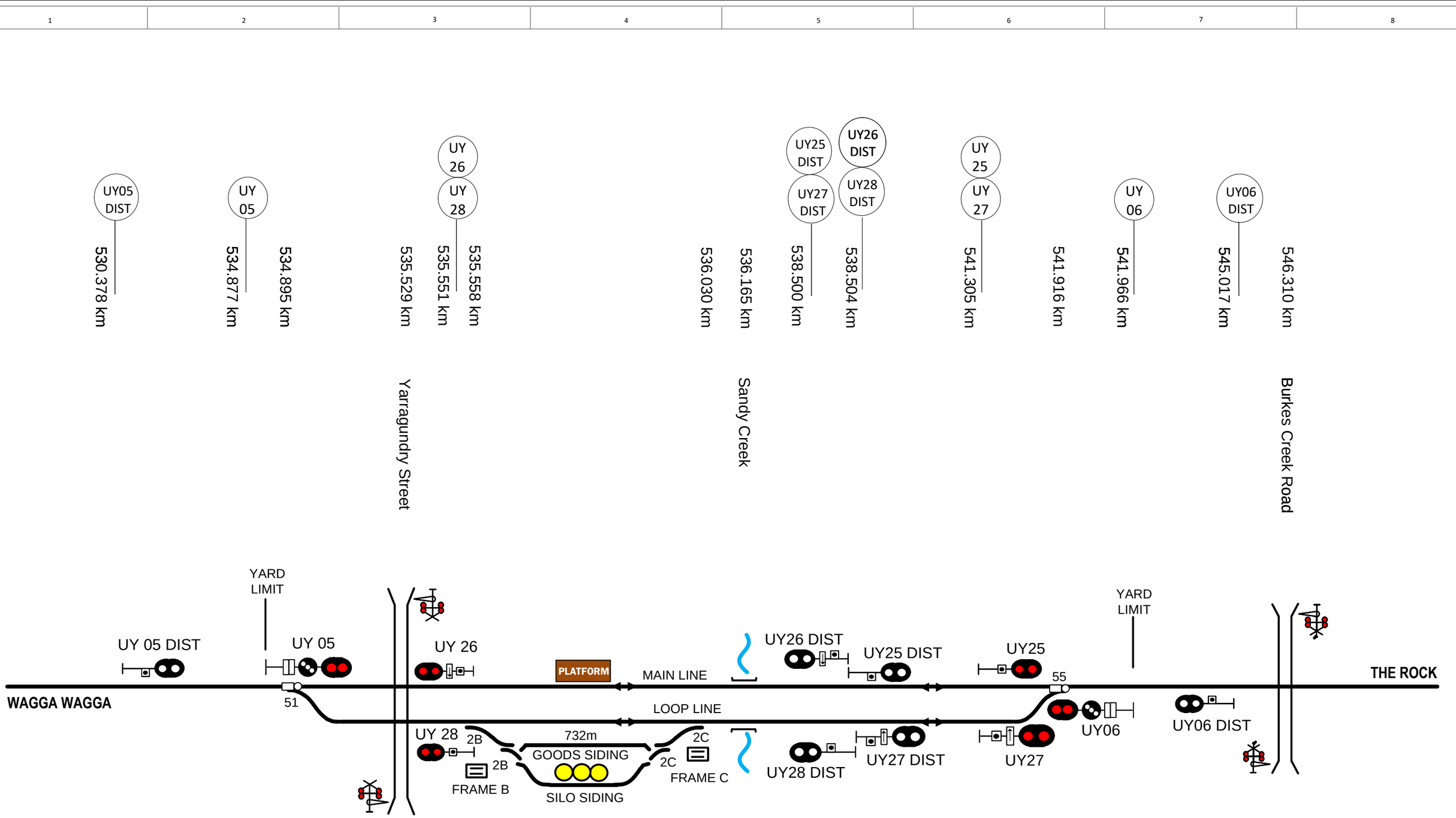
NIB-T0350

Sheet No 1 of 1
Sheet Size A3
Scale NTS

TITLE

WAGGA WAGGA



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Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	31/10/22	Passing lane changed to loop line				
2	26/2/20	eTAP review updates				
1	19/2/19	UY06 signal no corrected and data verification changes updated	AGIBB	DBOCZ		

Designed	S KHAJOUI	2/09/16
Checked	J SPARROW	2/09/16
Ind. Rev. Company	ARTC	Ind. Rev. Name R RATH
Review Signature		2/09/16

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Acceptance Date 2/09/16

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NIB-T0352

Sheet No 1 of 1
Sheet Size A3
Scale NTS

TITLE

URANQUINTY

07 3 DIST
546.679 km
07 3
548.229 km
07 30
549.876 km
07 5
550.052 km
550.075 km
07 26
07 28
550.179 km
550.154 km
550.145 km
550.188 km
07 13
550.365 km
07 18
07 16
550.458 km
550.380 km
07 15
07 17
550.951 km
550.955 km
07 12
551.094 km
551.046 km
07 14
551.107 km
07 27
07 25
551.366 km
551.496 km
551.448 km
07 6
551.555 km
07 6 DIST
553.570 km

Burkes Creek

Urana Street /
The Avenue

Yerong Street

The Rock ABA
Begin TOW

YARD
LIMIT

YARD
LIMIT

07 3 DIST
07 3
07 30
07 5
51A
51B
PLATFORM
07 26
07 28
07 13
53A
53B
07 18
07 16
DOWN LOOP LINE
MAIN LINE
UP LOOP LINE
07 15
07 17
54A
54B
2B
2C
2D
2E
UP SIDING
FRAME B
FRAME C
Silos
FRAME D
FRAME E
07 12
07 14
07 27
07 25
55A
55B
07 6
07 6 DIST
SHUNT
LIMIT
YARD
LIMIT
YARD
LIMIT
End TOW
The Rock
URANQUINTY
YERONG CREEK
CRN line to
BOREE CREEK
BACK ROAD

553.922 km
554.432 km

This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	11/7/22	Yerong Street crossing updated				
2	21/4/20	eTAP review updates				
1	30/1/18	Signal km's corrected & signal 07 14 added	AGIBB	RRATH		

Designed S KHAJOUI 2/09/16
Checked J SPARROW 2/09/16
Ind. Rev. Company ARTC
Ind. Rev. Name R RATH
Review Signature 2/09/16

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Accepted by P CAMPBELL
Signed:
Acceptance Date 2/09/16

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NIB-T0353

Sheet No 1 of 1
Sheet Size A3
Scale NTS

TITLE

THE ROCK

571.750 km

Neuheus Lane

570.817 km

YC 6 DIST

567.731 km

YC 06

567.714 km

567.109 km

YC 25

YC 27

565.242 km

Plunket Street /
Cole Street

565.236 km

YC 15

YC 17

565.190 km

564.832 km

564.680 km

564.303 km

564.020 km

Yerong Creek

563.375 km

YC26 DIST

YC28 DIST

561.158 km

YC 26

YC 28

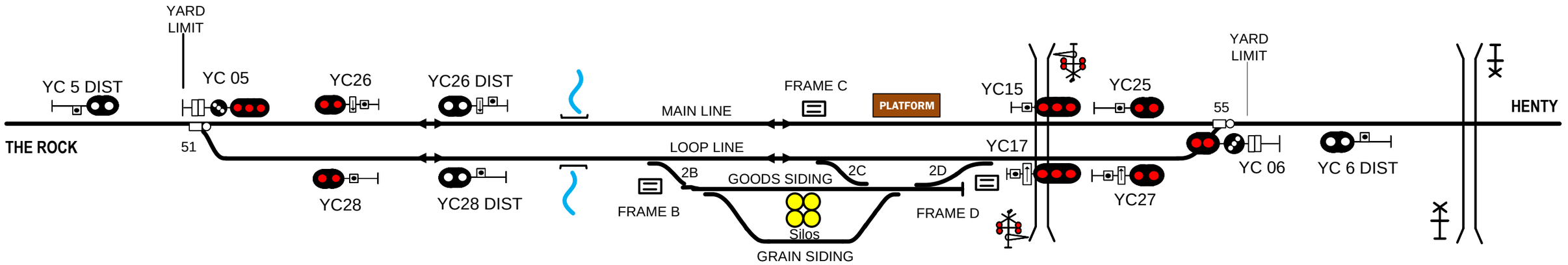
560.549 km

560.537 km

YC 05

556.875 km

YC 5 DIST



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Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	31/10/22	Passing lane changed to loop line				
2	21/4/20	eTAP review updates				
1	18/2/19	Updated km's from verification spreadsheet	DBOCZ			

Designed	S KHAJOUI	2/09/16
Checked	J SPARROW	2/09/16
Ind. Rev. Company	ARTC	Ind. Rev. Name R RATH
Review Signature		2/09/16

ARTC ACCEPTANCE
Accepted by P CAMPBELL
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Acceptance Date 2/09/16

ARTC

NIB-T0354

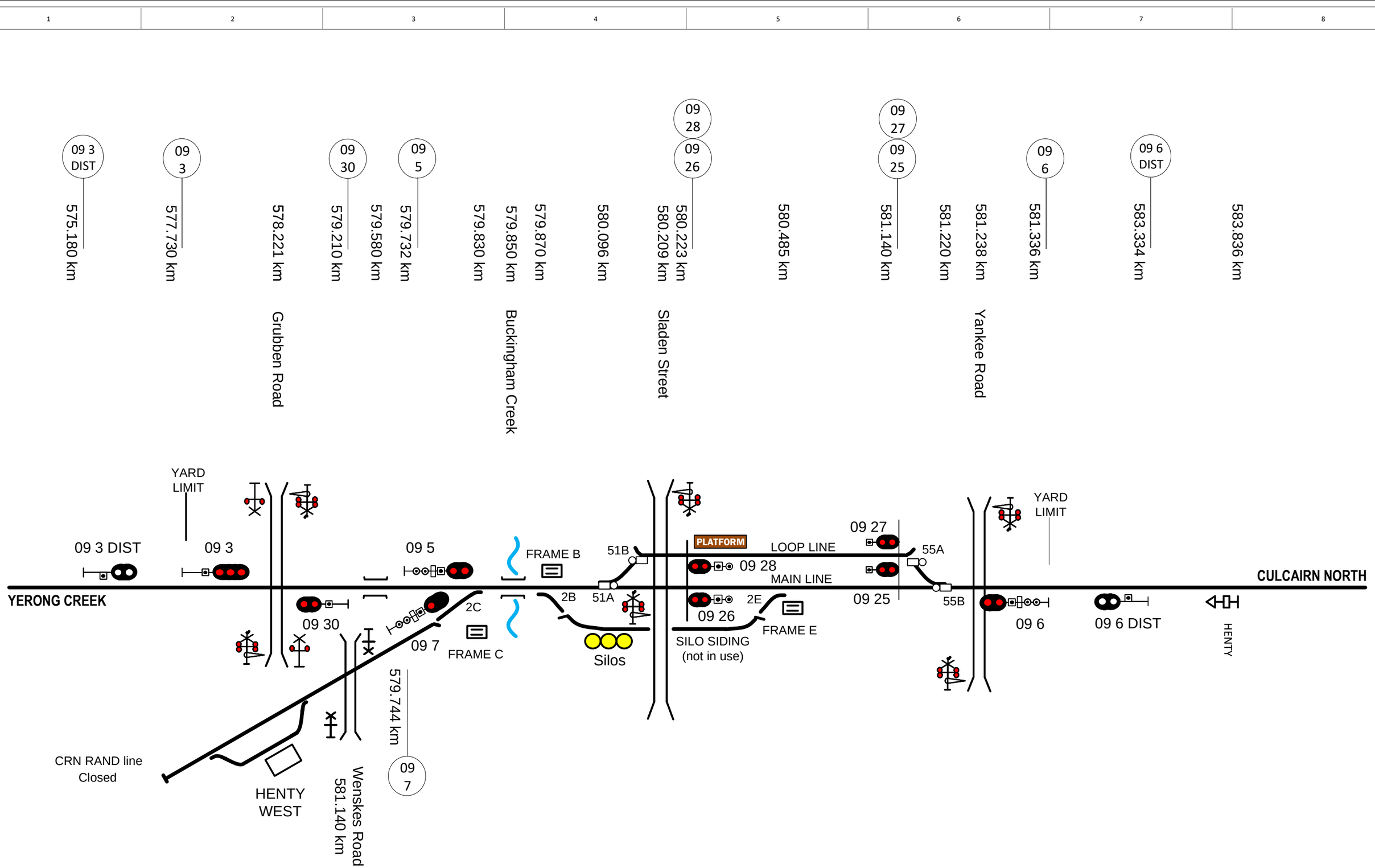
Sheet No 1 of 1

Scale NTS

Sheet Size A3

TITLE

YERONG CREEK



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	26/9/23	Down location sign removed, 09-3 distant signal km updated. 09-30 & 09-7 signals and 2C & 55B points km corrected				
2	6/9/21	Grubben Road level crossing added and Williams Crossing removed				
1	31/5/18	Rosler Parade renamed to Yankee Road	AGIBB	RRATH		

Designed	S KHAJOUI	2/09/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/09/16	Accepted by P CAMPBELL
Ind. Rev. Company	ARTC	Ind. Rev. Name	R RATH
Review Signature		2/09/16	Acceptance Date 2/09/16

ARTC

NIB-T0355

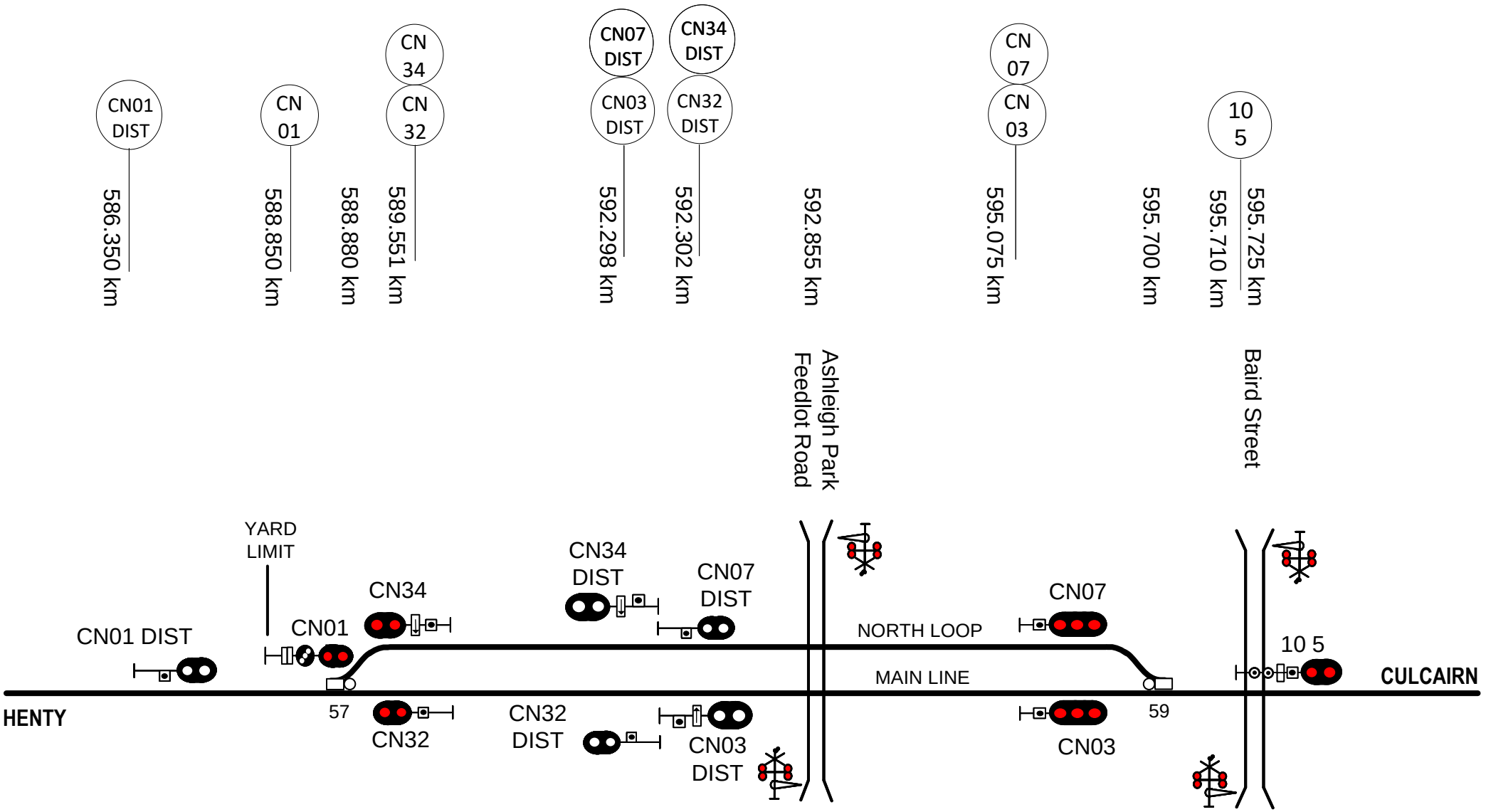
Sheet No 1 of 1

Sheet Size A3

Scale NTS

TITLE

HENTY



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	31/10/22	Passing lane changed to loop line				
2	21/4/20	eTAP review updates				
1	18/2/19	Baird St level crossing updated & data verification changes included	AGIBB	DBOCZ		

Designed	S KHAJOUI	2/9/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/9/16	Accepted by P CAMPBELL
Ind. Rev. Company	ARTC	Ind. Rev. Name	R RATH
Review Signature		2/9/16	Signed: Acceptance Date 2/9/16

ARTC

TITLE

CULCAIRN NORTH

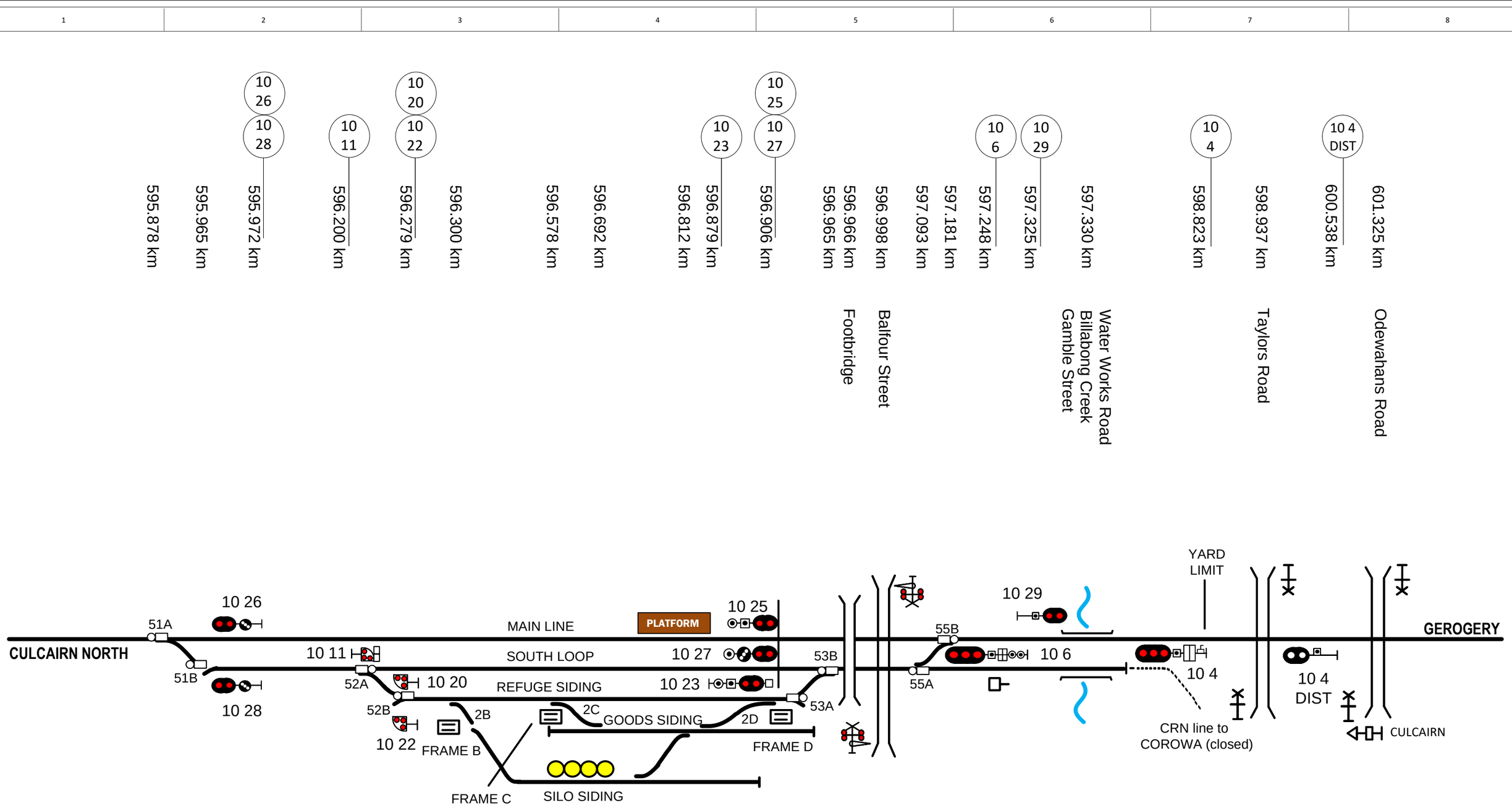
NIB-T0356

Sheet No 1 of 1

Scale NTS

Sheet Size A4

601.325 km	Odewahans Road
600.538 km	10 4 DIST
598.937 km	Taylors Road
598.823 km	10 4
597.330 km	Water Works Road Billabong Creek Gamble Street
597.325 km	10 29
597.248 km	10 6
597.181 km	
597.093 km	
596.998 km	Balfour Street
596.966 km	
596.965 km	Footbridge
596.906 km	10 27
596.879 km	10 23
596.812 km	
596.692 km	
596.578 km	
596.300 km	
596.279 km	10 22
596.200 km	10 11
595.972 km	10 28
595.965 km	
595.878 km	10 26



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	31/10/22	Passing lane changed to loop line				
2	21/4/20	eTAP review updates				
1	31/1/18	Signal km's corrected	AGIBB	RRATH		

Designed	S KHAJOUI	2/09/16
Checked	J SPARROW	2/09/16
Ind. Rev. Company	ARTC	
Ind. Rev. Name	R RATH	
Review Signature		2/09/16

ARTC ACCEPTANCE
Accepted by
P CAMPBELL
Signed:
Acceptance Date 2/09/16

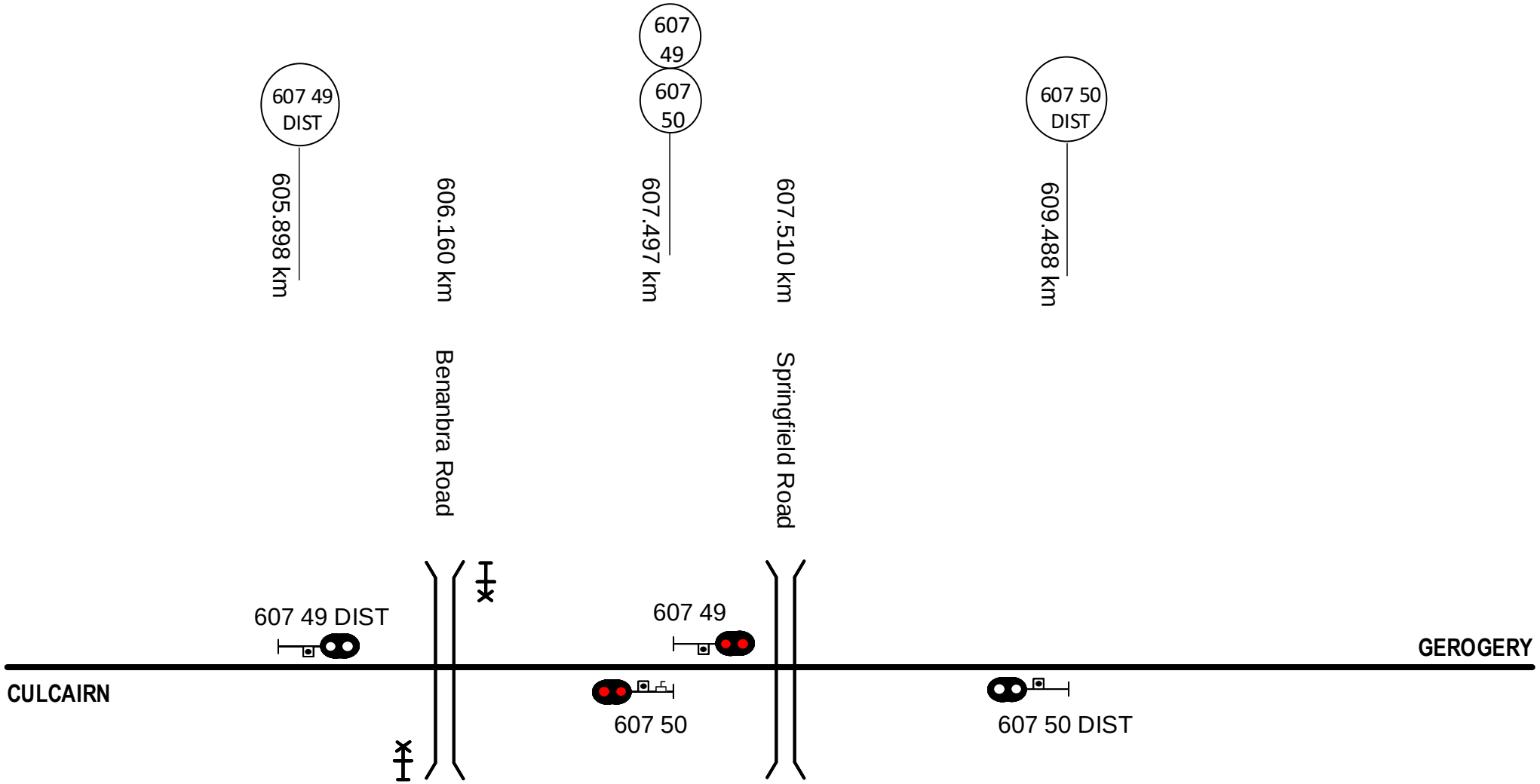
ARTC

NIB-T0357

Sheet No 1 of 1
Sheet Size A3
Scale NTS

TITLE

CULCAIRN



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
2	26/2/20	eTAP review updates				
1	31/1/18	Signal km's corrected	AGIBB	RRATH		

Designed	S KHAJOUI	2/9/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/9/16	Accepted by P CAMPBELL
Ind. Rev. Company	ARTC	Ind. Rev. Name R RATH	Signed:
Review Signature		2/9/16	Acceptance Date 2/9/16

ARTC

NIB-T0358

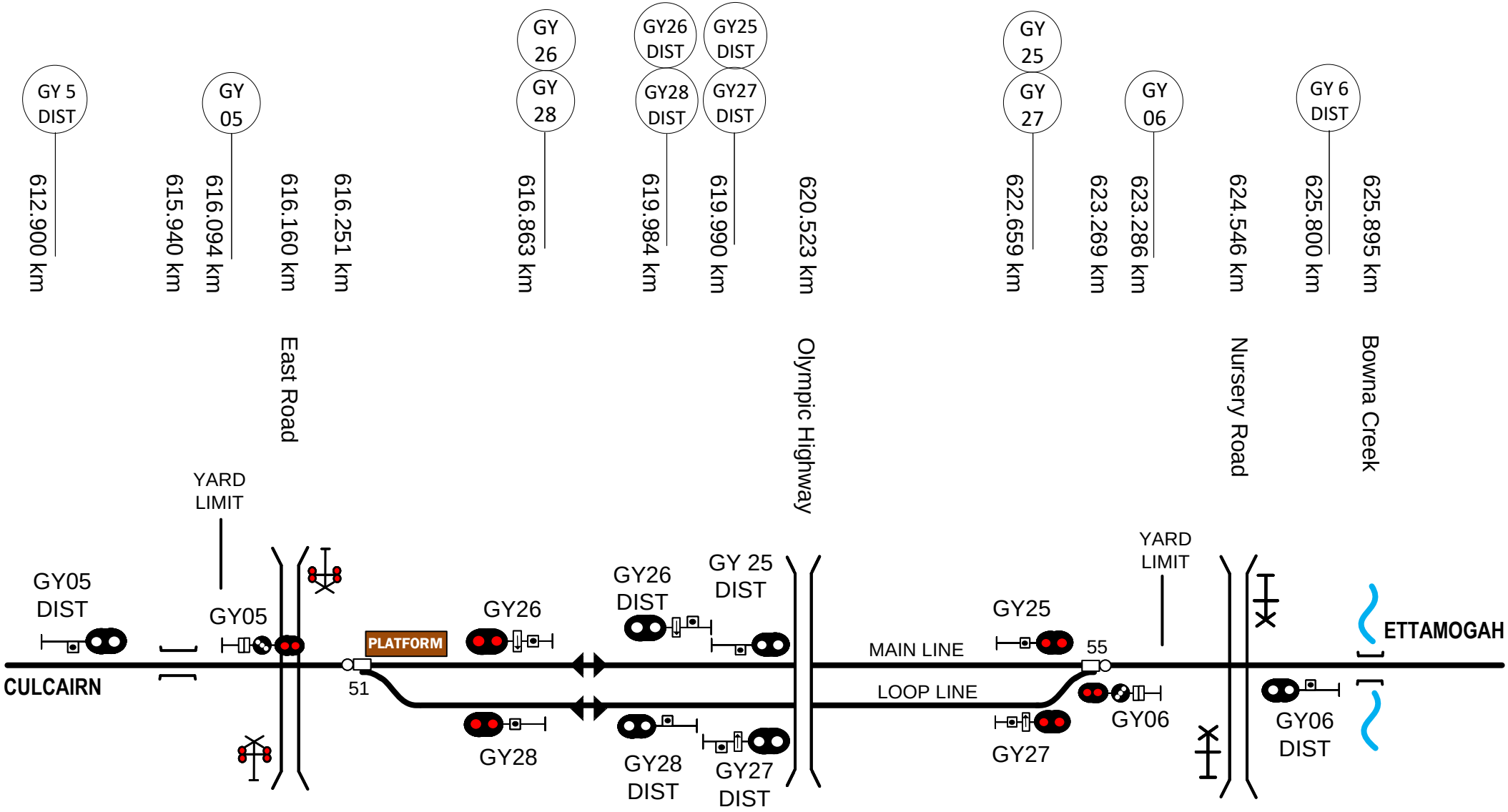
Sheet No 1 of 1

Scale NTS

Sheet Size A4

TITLE

CULCAIRN - GEROGERY



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	31/10/22	Passing lane changed to loop line				
2	26/2/20	eTAP review updates				
1	31/1/18	Signal km's corrected	AGIBB	RRATH		

Designed	S KHAJOUI	2/9/16	ARTC ACCEPTANCE
Checked	J SPARROW	2/9/16	Accepted by P CAMPBELL
Ind. Rev. Company	ARTC	Ind. Rev. Name	R RATH
Review Signature		2/9/16	Signed:
			Acceptance Date 2/9/16

ARTC

TITLE

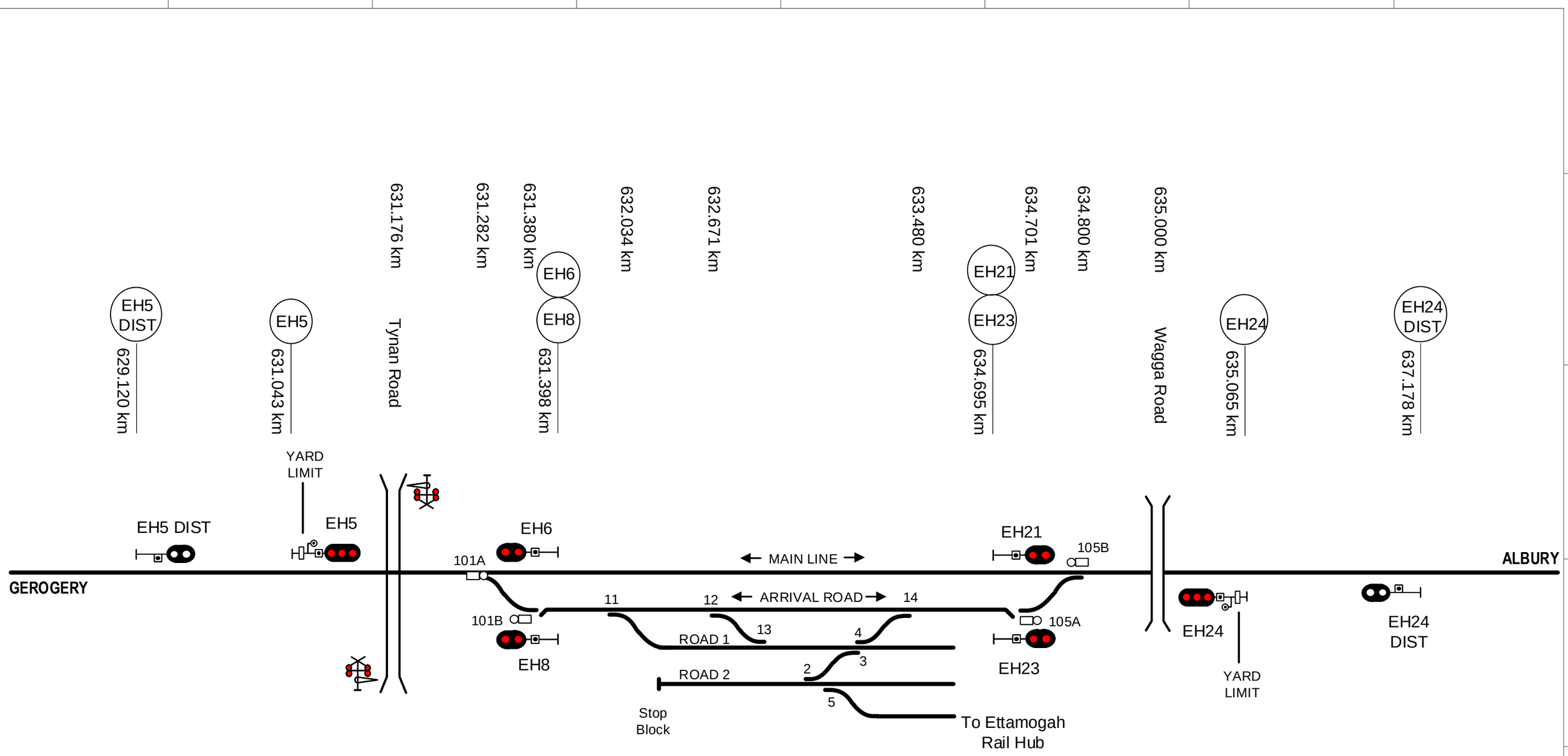
GEROGERY

NIB-T0359

Sheet No 1 of 1

Scale NTS

Sheet Size A4



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
1	16/4/21	Rail Hub details updated	DBOCZ			

Designed	S KHAJOUI	2/09/16
Checked	J SPARROW	2/09/16
Ind. Rev. Company	ARTC	Ind. Rev. Name R RATH
Review Signature		2/09/16

ARTC ACCEPTANCE
Accepted by P CAMPBELL
Signed:
Acceptance Date 2/09/16

ARTC

TITLE

ETTAMOGAH

NIB-T0361

Sheet No 1 of 1

Scale NTS

Sheet Size A3

645.918 km

Harold Mair Pedestrian Bridge
(Dean Street)

AY 154

AY 153

645.635 km

645.630 km

645.570 km

AY 161

645.350 km

AY 150

AY 151

644.881 km

644.830 km

644.772 km

645.104 km

Borella Road Bridge

AY 166

644.467 km

644.125 km

North Street Bridge

643.303 km

Fallon Street Bridge

641.800 km

Union Road Pedestrian Underpass

641.225 km

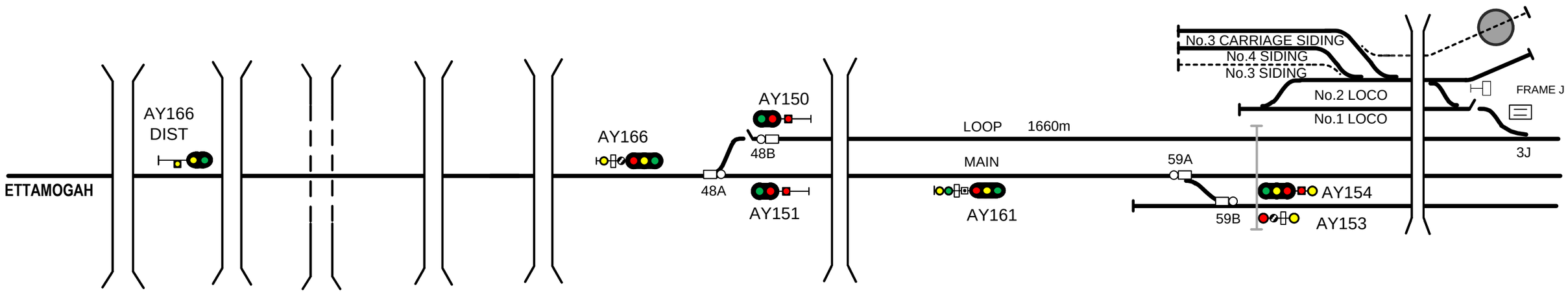
Racecourse Road Bridge

AY166
DIST

640.860 km

639.300 km

Thurgoona Drive Bridge



This diagram must be used in conjunction with the corresponding Network Information Book containing the location specific information in Section 2 as well as the legend and general information in Section 1.

Rev	Date	Revision Description	Designed	Checked	Ind.Rev	Approved
3	18/9/23	Albury to Ettamogah resignalling project changes updated				
2	1/2/18	Signal km's corrected	AGIBB	RRATH		
1	22/01/17	Signal AY164 km's changed				

Designed S KHAJOUI 2/09/16
Checked J SPARROW 2/09/16
Ind. Rev. Company ARTC
Ind. Rev. Name R RATH
Review Signature 2/09/16

ARTC ACCEPTANCE
Accepted by P CAMPBELL
Signed:
Acceptance Date 2/09/16

ARTC

NIB-T0362

Sheet No 1 of 2
Sheet Size A3
Scale NTS

TITLE

ALBURY 1

Drawing Legend

	Standard gauge track		Dual gauge track
	Advisory Sign or Location Sign	75 80	Speed sign
	Pedestrian Crossing	STOP STOP	Passive Protection Level Crossing
	Active Protection Level Crossing – Flashing Lights		Active Protection Level Crossing – Lights and Boom
	Bridge or Overpass		Underpass
	River/Creek or Significant river bridge or Viaduct	Station Passenger Platform	Station or Platform
	Tunnel		Crossover
	Turnout		Catchpoint
	Derail	Motorised Manual	Points Operating Mechanism
	Point Indicator		Mechanical Frame
	Automatic Signals		Controlled Signals
	Dwarf Signals	6 6D 74.592 km 4 109.128 km	Signal number reference
	Distant Signal		Repeater Signal
	Overheight Detectors	>> <<	Wayside Equipment

Attachment 3. A2I Idling locations and predicted affected distances for NOx

PERRY STREET
WOOD STREET
YOUNG STREET
Albury Platform Rd And Loop Rd
Albury Run Round Rd And Coal Rd Rd
HUME HIGHWAY
BORELLA ROAD
BROAD STREET
SCHUBACH STREET

Albury to Illabo

Figure 1 Idling locations within the A2I alignment

0 10 20 m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Active recreation
- Commercial
- Educational
- Residential
- Shed

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MATE STREET

NORTH STREET

VINE STREET

EAMES STREET

TRIBUNE STREET

Albury Platform
Rd And Loop Rd

HUME HIGHWAY

Albury to Illabo

Figure 2 Idling locations within the A2I alignment

0 10 20
m

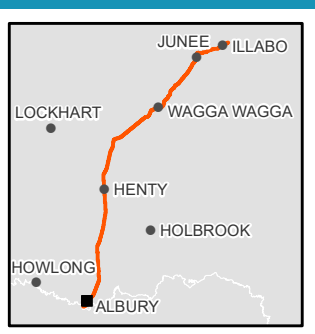
Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)

- Active recreation
- Educational
- Industrial
- Residential
- Shed



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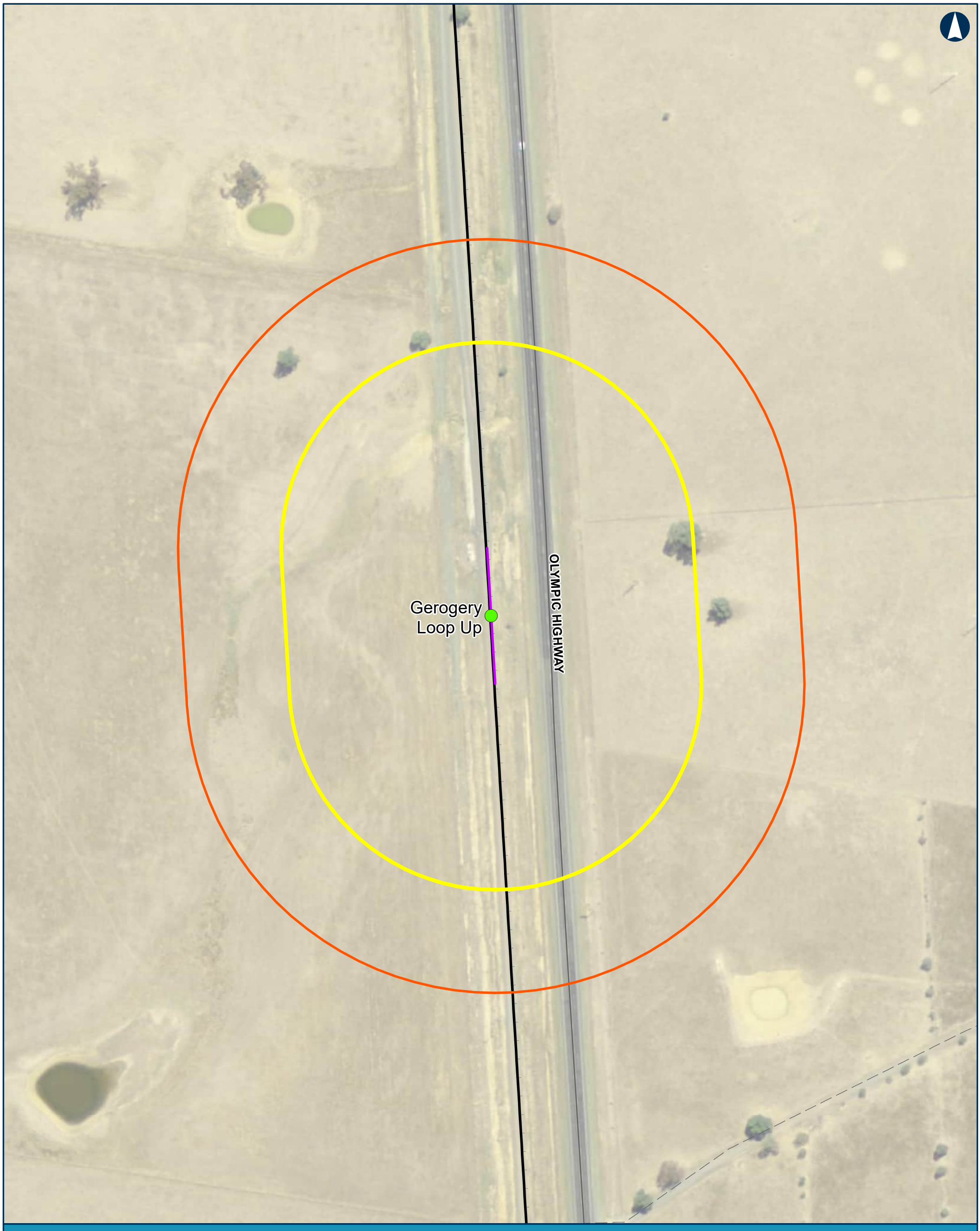

Albury to Illabo

Figure 3 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Track

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Albury to Illabo Figure 4 Idling locations within the A2I alignment

0 10 20 m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Commercial
- Educational
- Industrial
- Place of Worship
- Residential
- Shed

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WATERWORKS ROAD

OLYMPIC HIGHWAY

Culcairn
Loop Up

TAYLORS ROAD

CUMMINGS ROAD

Albury to Illabo

Figure 5 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road
- Track

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Culcairn Passing Lane

RAILWAY PARADE

MELVILLE STREET

HOPETOUN STREET

HAMILTON STREET

Albury to Illabo

Figure 6 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Industrial
- Residential
- Shed

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BACK HENTY ROAD

OLYMPIC HIGHWAY

Culcairn
Loop Up

HEATHCOTE LANE

BAIRD STREET

RAILWAY PARADE

MELVILLE STREET

Albury to Illabo Figure 7 Idling locations within the A2I alignment

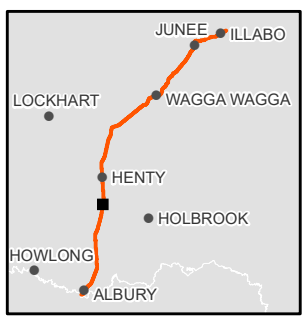
0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Industrial
- Residential
- Shed



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BACK HENTY ROAD

OLYMPIC HIGHWAY

Rural Case Study Area (Culcairn)

Albury to Illabo Figure 8 Idling locations within the A2I alignment

0 10 20 m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,200
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Residential
- Shed

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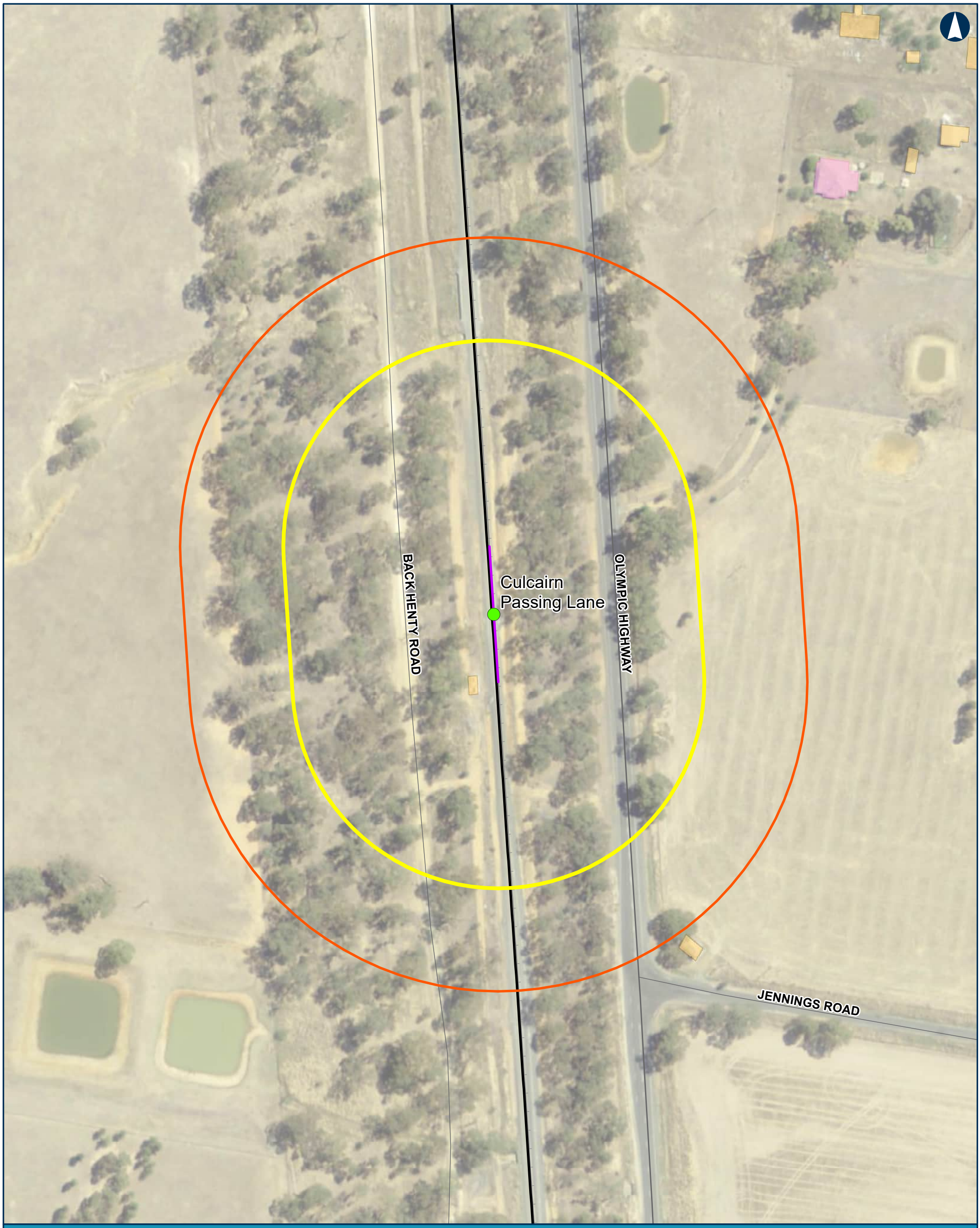


Albury to Illabo Figure 9 Idling locations within the A2I alignment

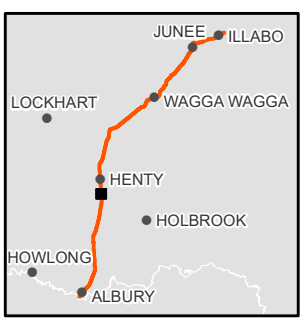
0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Residential
- Shed



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ROSLER PARADE

RAILWAY PARADE

YANKEE CROSSING ROAD

Henty
Loop Down

HENTY WALLA ROAD

OLYMPIC HIGHWAY

Albury to Illabo

Figure 10 Idling locations within the A2I alignment

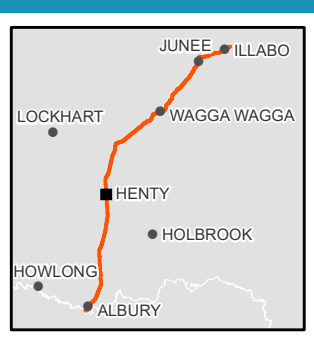
0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road
- Track

Sensitive receivers (11/06/2021)
- Active recreation
- Industrial
- Residential
- Shed



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ORANGE FLAT LANE

Henty Loop Down

OLYMPIC HIGHWAY

Albury to Illabo

Figure 11 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

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Albury to Illabo

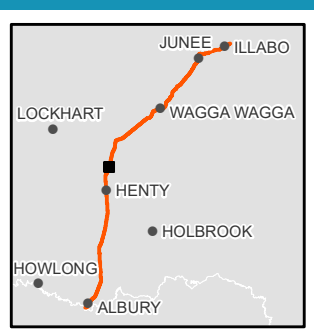
Figure 12 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road
- Track



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NOSKES LANE

Yerong Creek Loop Up

OLYMPIC HIGHWAY

Albury to Illabo

Figure 13 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Track

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YERONG STREET

BRAITHWAITES LANE

The Rock
Loop Down

RAILWAY STREET

OLYMPIC HIGHWAY

WATSON STREET

Albury to Illabo

Figure 14 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road
- Track

Sensitive receivers (11/06/2021)
- Residential
- Shed

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The Rock
Loop Up

RAILWAY STREET

HILL STREET

PINE STREET

Albury to Illabo

Figure 15 Idling locations within the A2I alignment

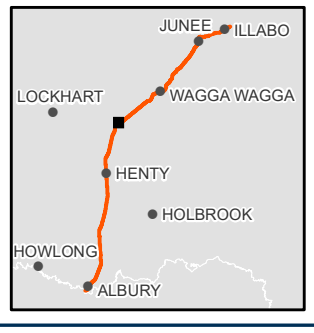
0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Residential
- Shed



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NORMAN STREET
DAVIDSON STREET
MITCHELL STREET
DRAPER SMISSEN STREET
RAILWAY STREET
The Rock
Loop Up
URANA STREET
OLYMPIC HIGHWAY
SCOTT STREET
MANGOPLAH ROAD

Albury to Illabo

Figure 16 Idling locations within the A2I alignment

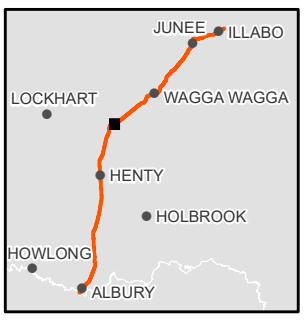
0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road
- Track

Sensitive receivers (11/06/2021)
- Commercial
- Residential
- Shed



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The Rock
Loop Down

OLYMPIC HIGHWAY

Albury to Illabo

Figure 17 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road

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BON ACCORD ROAD

Uranquinty
Loop Up

OLYMPIC HIGHWAY

Albury to Illabo

Figure 18 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

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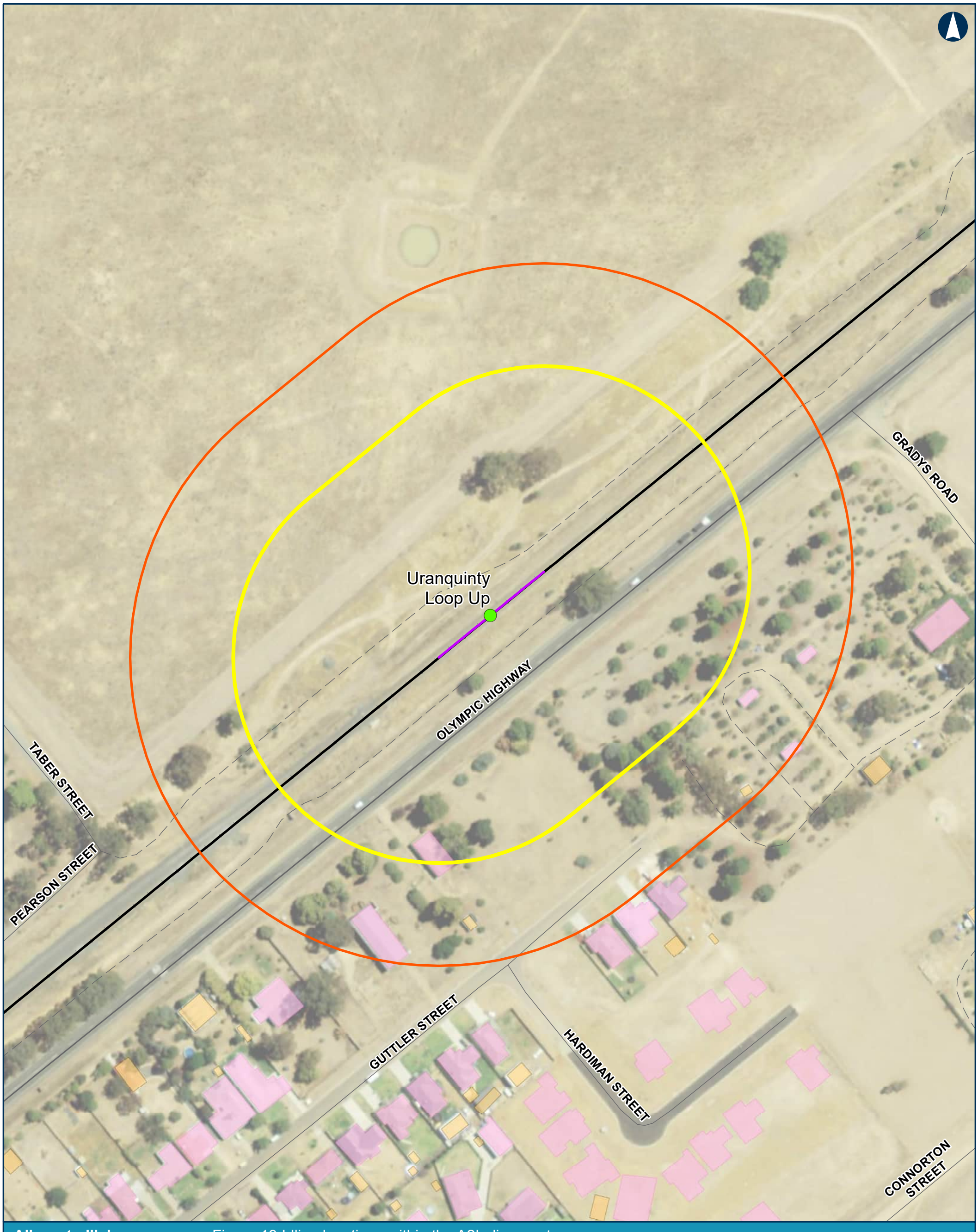


Albury to Illabo Figure 19 Idling locations within the A2I alignment

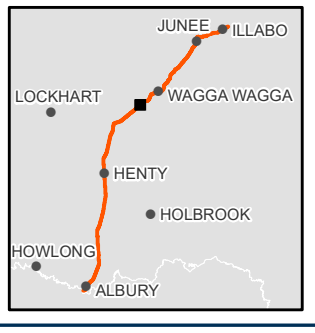
0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road
- Track

Sensitive receivers (11/06/2021)
- Residential
- Shed



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EATON STREET
FRANCES COURT
ALLEN STREET
JEREMY PLACE
CRISP DRIVE
O'REGAN STREET
APPRENTICE AVENUE
GRINTON AVENUE
Wagga Wagga
Loop Up
WARAMBEE STREET
YOOGALI STREET
MIMA STREET
ALLUNGA STREET
BIRRI PLACE
WOMBOIN
CRESCENT

Albury to Illabo

Figure 20 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Local road
- Track

Sensitive receivers (11/06/2021)
- Residential
- Shed

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Albury to Illabo

Figure 21 Idling locations within the A2I alignment

0 10 20 m

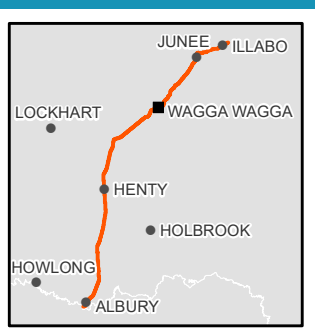
Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,000
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Local road

Sensitive receivers (11/06/2021)

- Medical
- Place of Worship
- Residential
- Shed



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KELVIN STREET

HINKLER STREET

HALE STREET

WHITTLE STREET

Wagga Wagga
Loop Up

Albury to Illabo

Figure 22 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Local road
- Track

Sensitive receivers (11/06/2021)
- Residential
- Shed

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Bomen
Passing
Lane

BYRNES ROAD

Albury to Illabo

Figure 23 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Track

Sensitive receivers (11/06/2021)
- Shed

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Bomen Passing Lane

BYRNES ROAD

Albury to Illabo

Figure 24 Idling locations within the A2I alignment

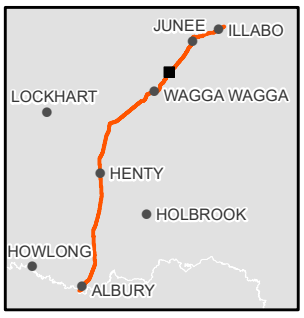
0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Track

Sensitive receivers (11/06/2021)
- Residential
- Shed



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Harefield
Loop Down

BYRNES ROAD

Albury to Illabo

Figure 25 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Track

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HAREFIELD ROAD

Harefield
Loop Down

BYRNES ROAD

Albury to Illabo

Figure 26 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,700
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Industrial
- Shed

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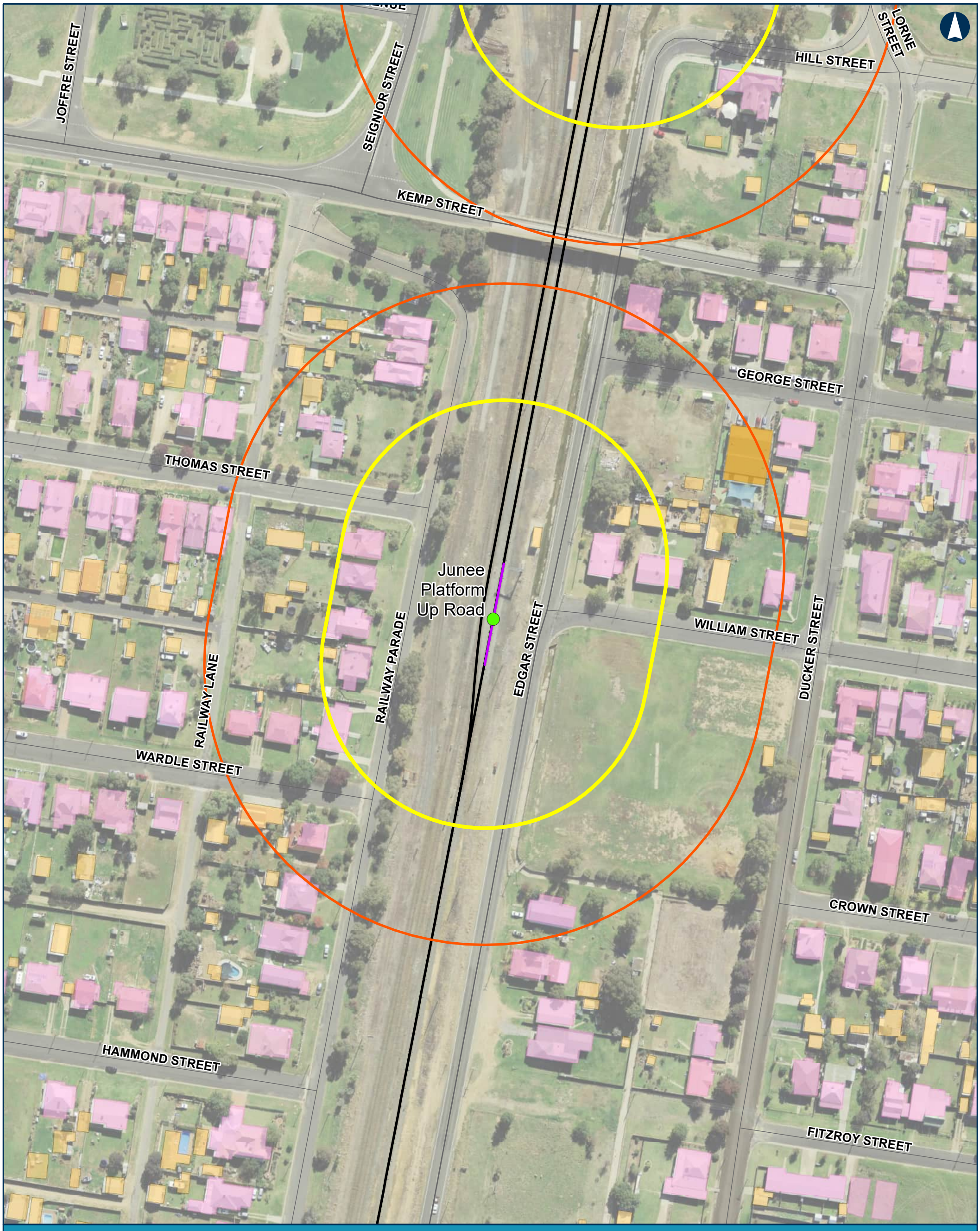

Albury to Illabo Figure 27 Idling locations within the A2I alignment

0 10 20 m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Educational
- Residential
- Shed

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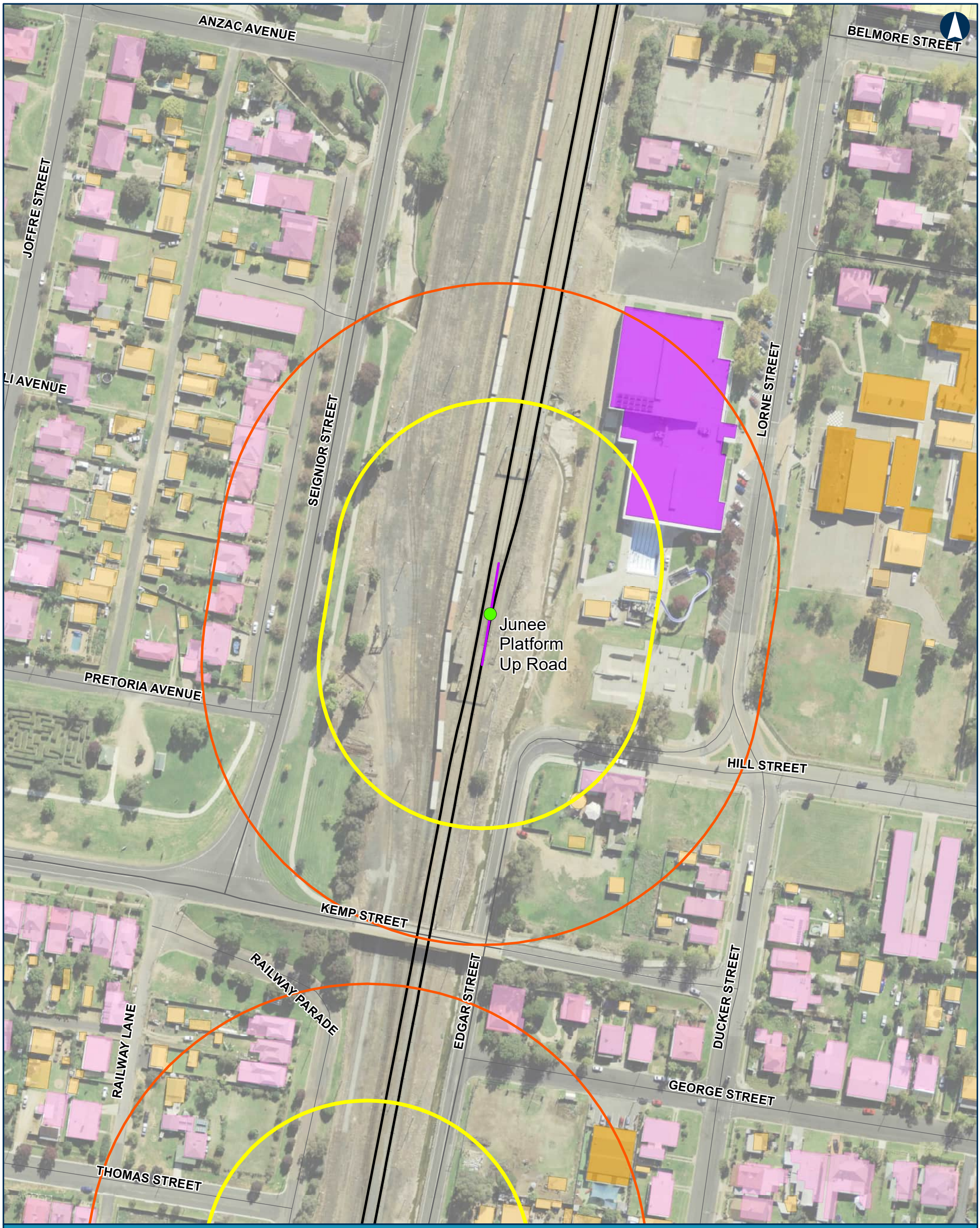


Albury to Illabo Figure 28 Idling locations within the A2I alignment

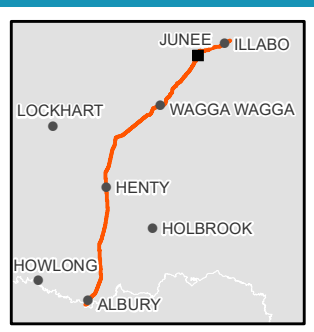
0 10 20 m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)
- Active recreation
- Commercial
- Educational
- Residential
- Shed



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PITT STREET

Junee
Platform
Up Road

MAIN STREET

LOFTUS LANE

ORR STREET

BOLTON STREET

JUNCTION STREET

CRAWLEY STREET

BROADWAY

PEEL STREET

COX STREET

Albury to Illabo

Figure 29 Idling locations within the A2I alignment

0 10 20
m

Coordinate System: GDA 1994 MGA Zone 55

Date: 30/04/2024 Paper: A3
Author: WSP Scale: 1:1,500
Data Sources: ARTC, NSWSS, LPI

- Idling Locations
- Locomotives Length
- NO2 1-hour criterion exceedance – Idling train
- NO2 1-hour criterion exceedance – Idling train with passing train
- Track alignment
- Existing railway
- Main road
- Local road

Sensitive receivers (11/06/2021)

- Active recreation
- Commercial
- Industrial
- Residential
- Shed

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