

TECHNICAL PAPER

04

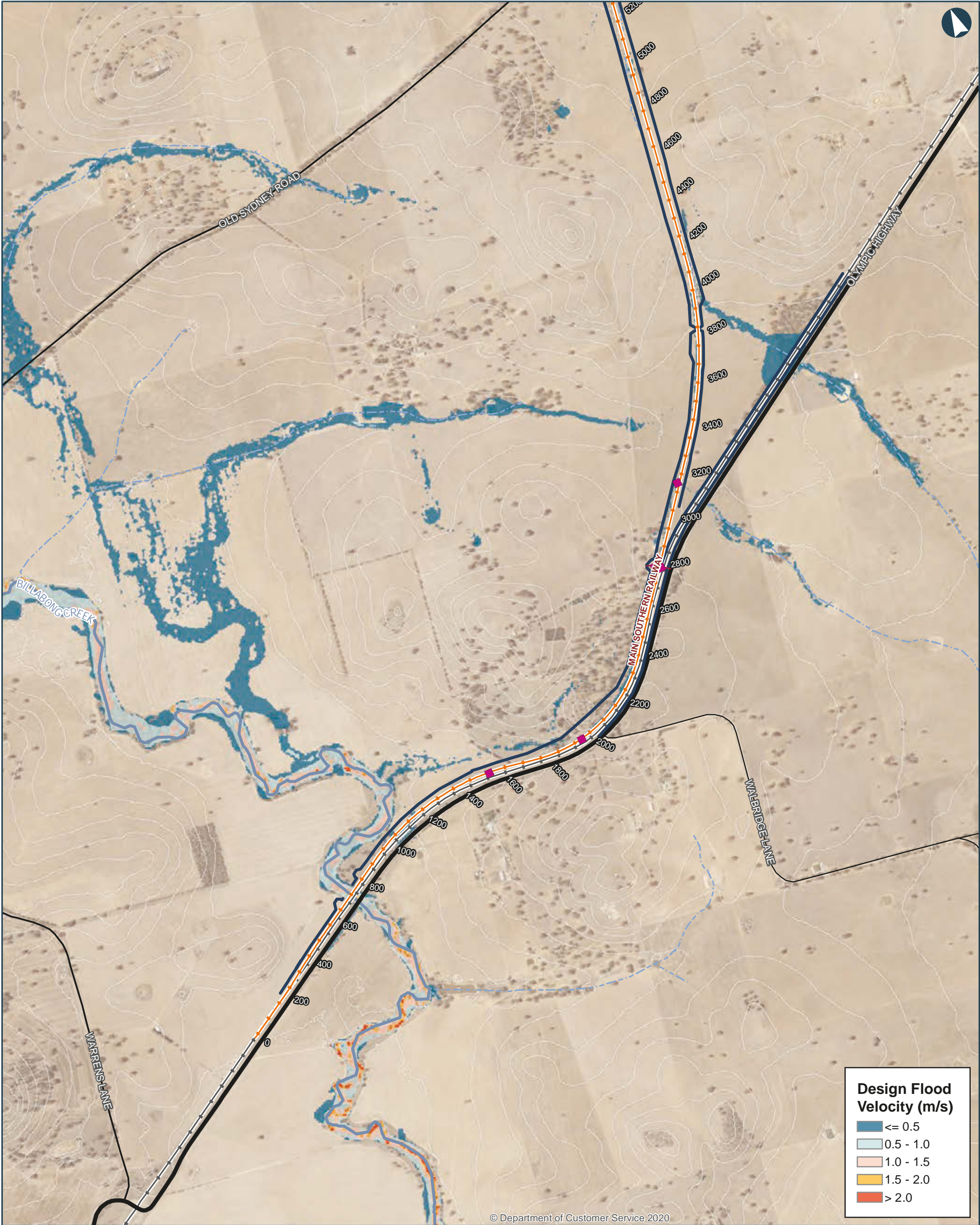
Hydrology and Flooding Impact Assessment

Appendix D Flood maps— design conditions

Appendix D2 Change in velocity

ILLABO TO STOCKINBINGAL ENVIRONMENTAL IMPACT STATEMENT





ILLABO TO STOCKINBINGAL 0.2EY Flood Design Velocity

Map 1 of 9

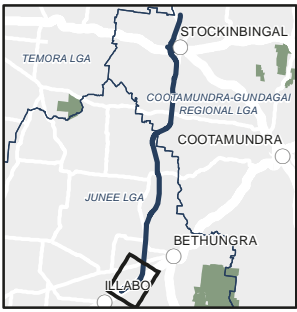
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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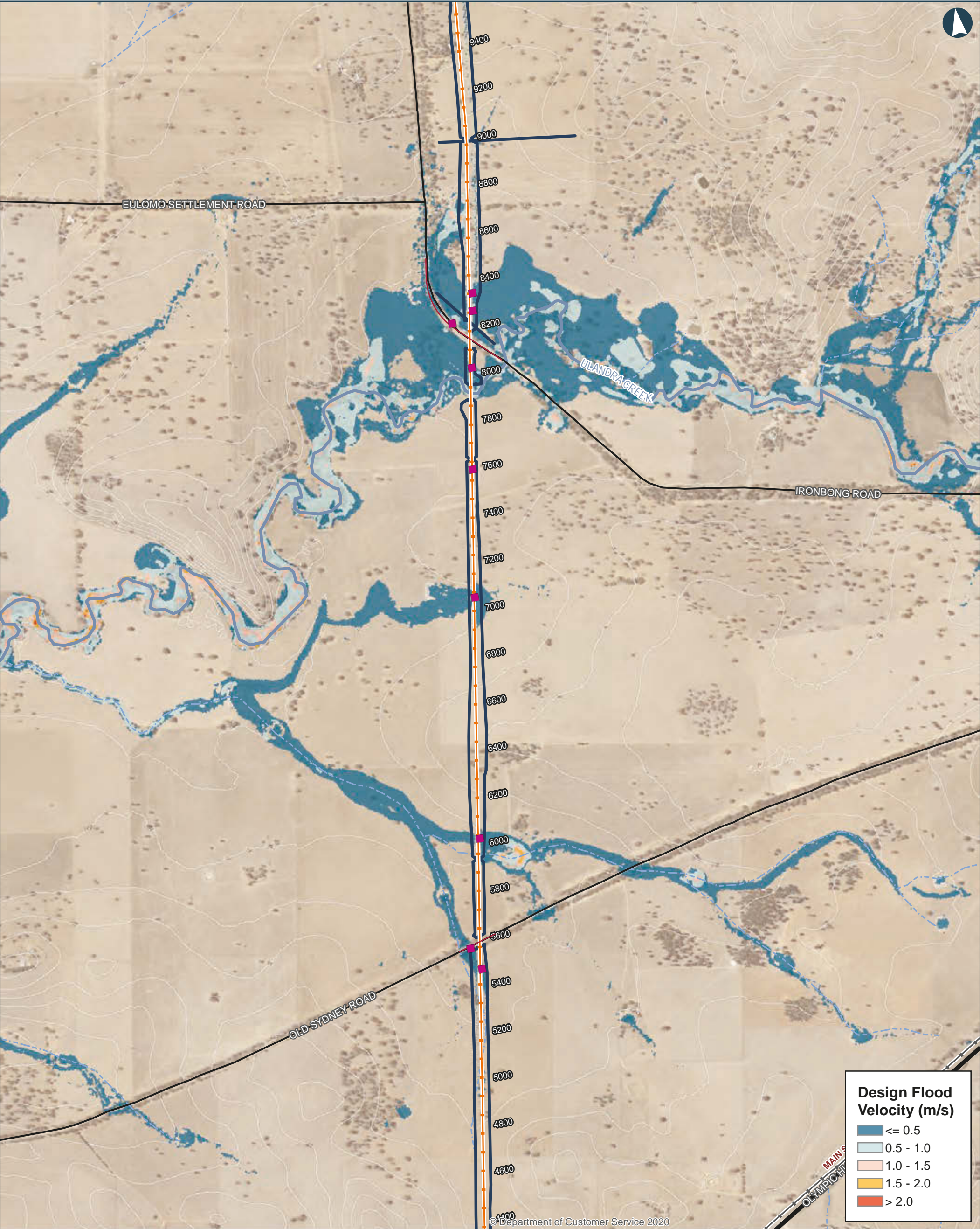
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
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- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 0.2EY Flood Design Velocity

Map 2 of 9

0 200 400 Metres

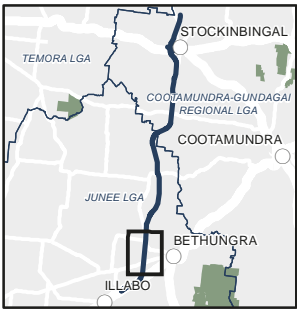
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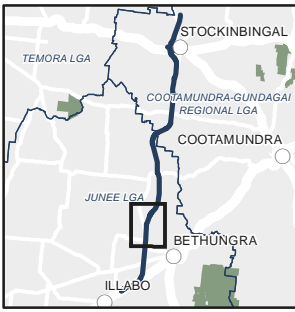
ILLABO TO STOCKINBINGAL 0.2EY Flood Design Velocity

Map 3 of 9

0 200 400 Metres

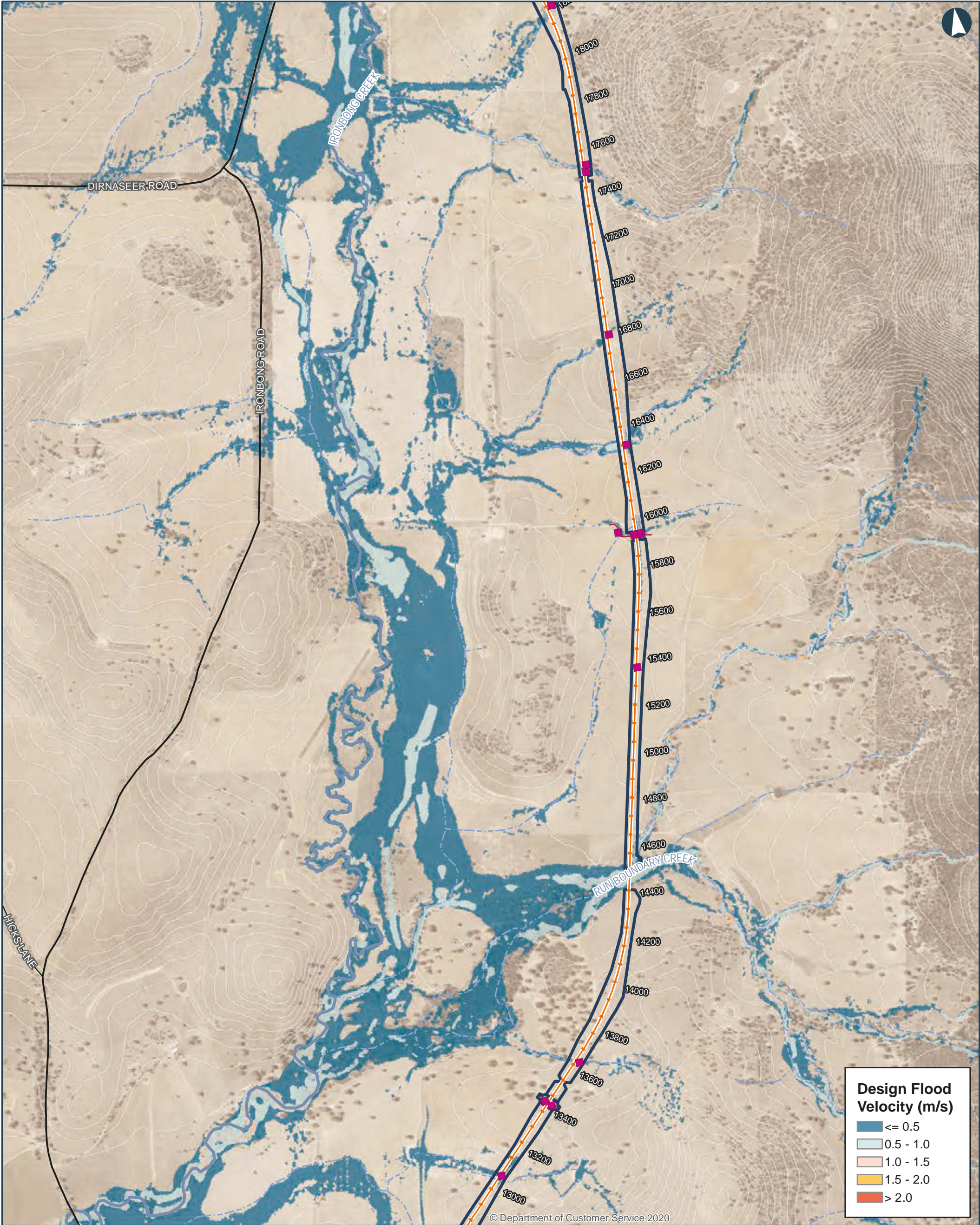
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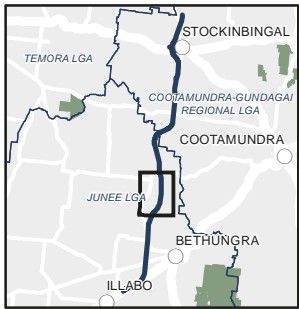
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ILLABO TO STOCKINBINGAL 0.2EY Flood Design Velocity

Map 5 of 9

0200400Metres

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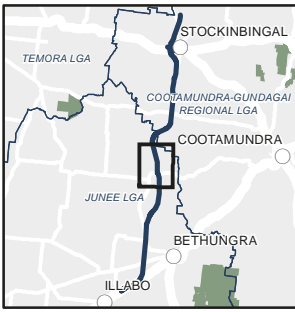
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ILLABO TO STOCKINBINGAL 0.2EY Flood Design Velocity

Map 6 of 9

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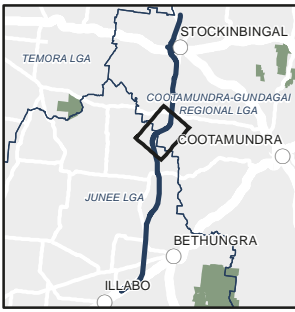
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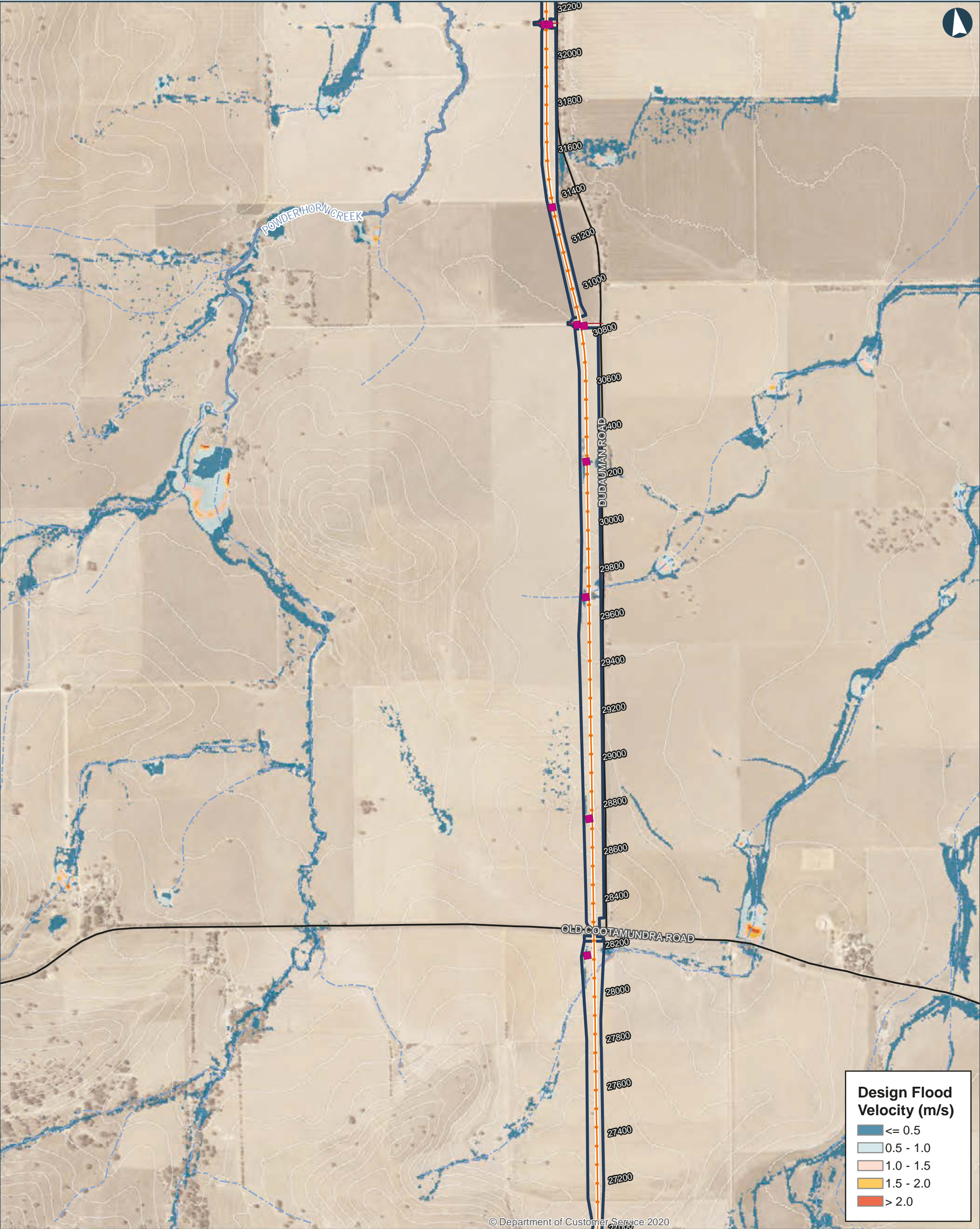
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Map 7 of 9

0200400Metres

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Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

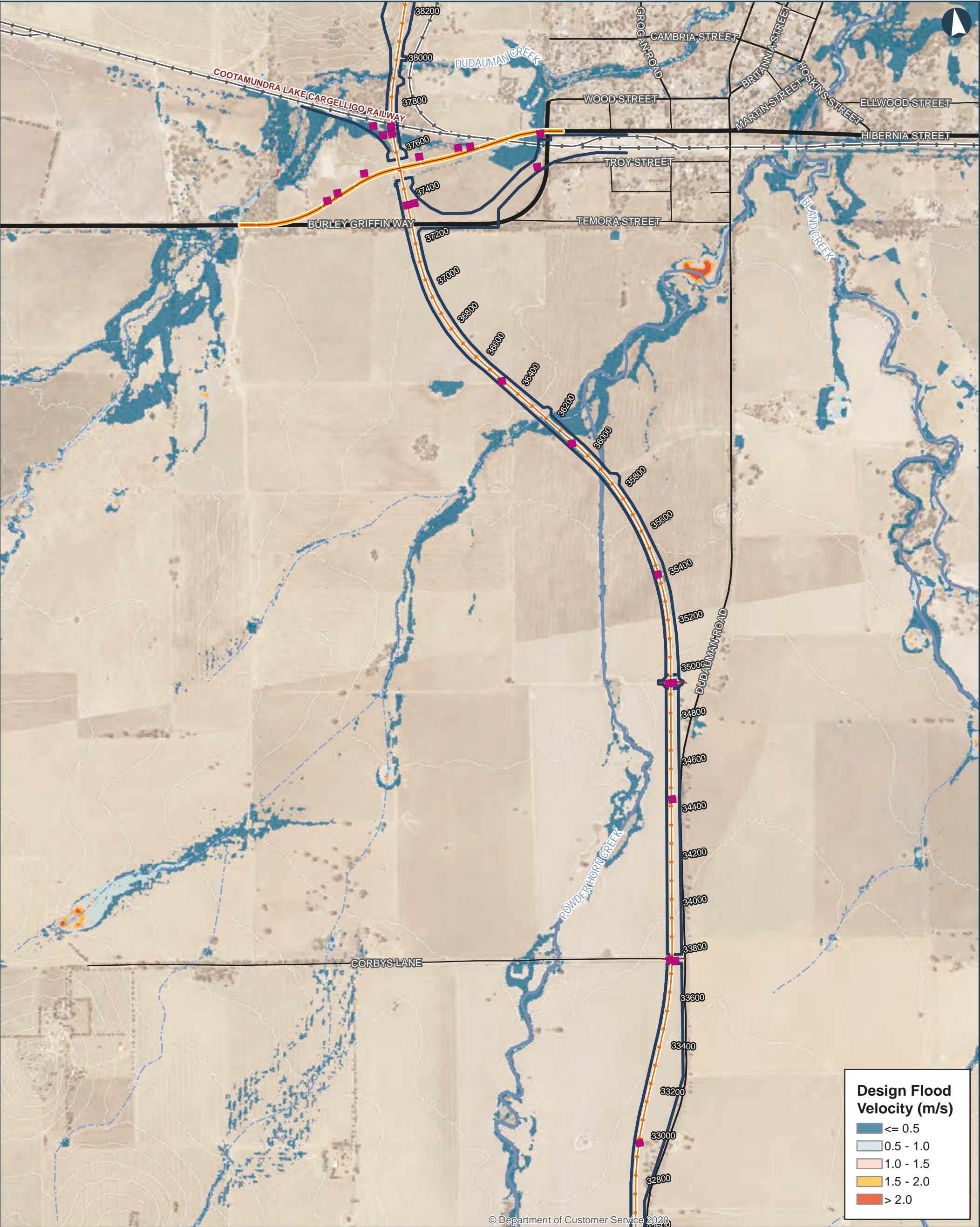
— Sub-arterial road

— Arterial road

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ILLABO TO STOCKINBINGAL 0.2EY Flood Design Velocity

Map 8 of 9

0200400Metres

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40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

B

Underbridge

■

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

—

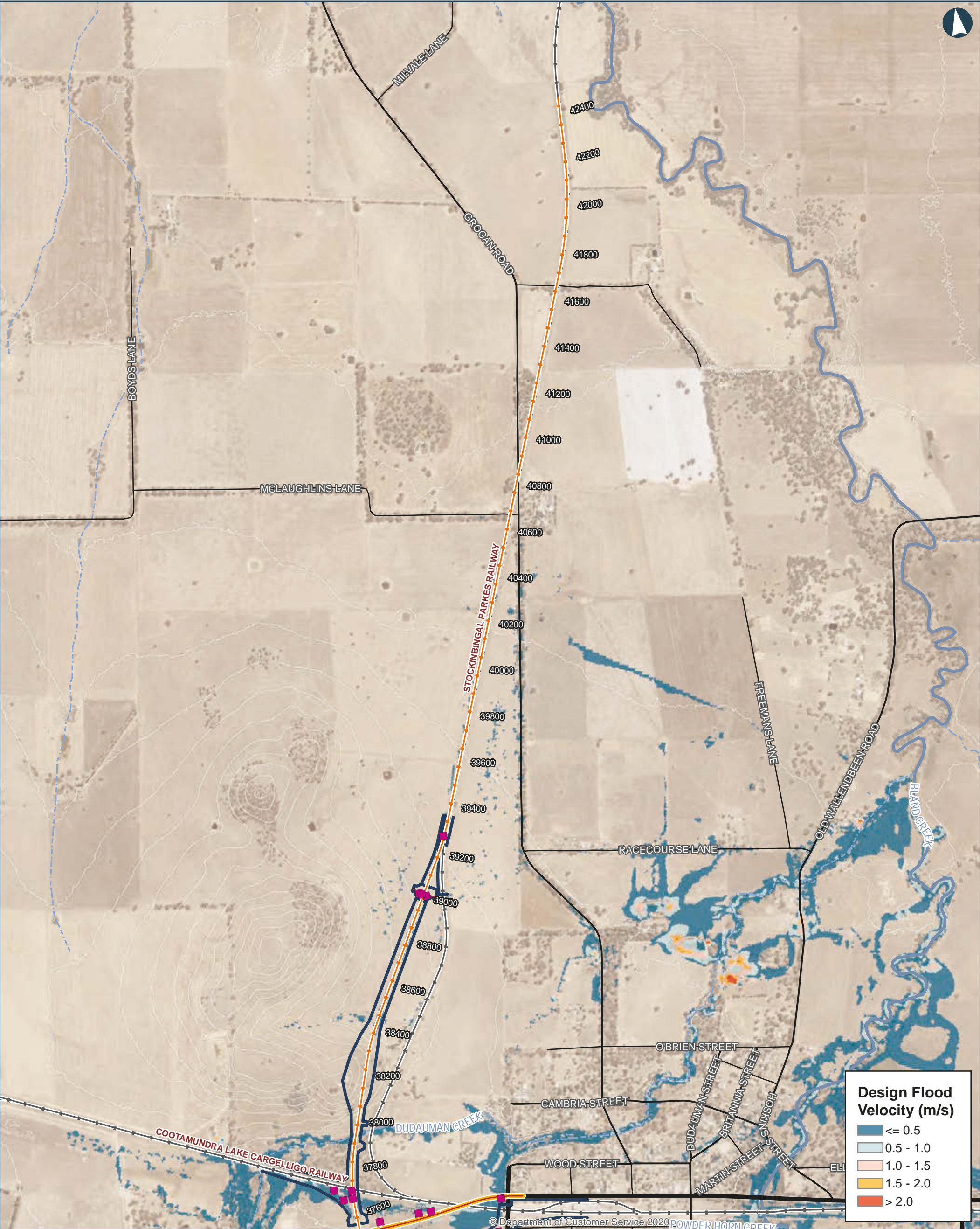
Sub-arterial road

—

Arterial road

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ILLABO TO STOCKINBINGAL 0.2EY Flood Design Velocity

Map 9 of 9

0 200 400 Metres

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40950

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

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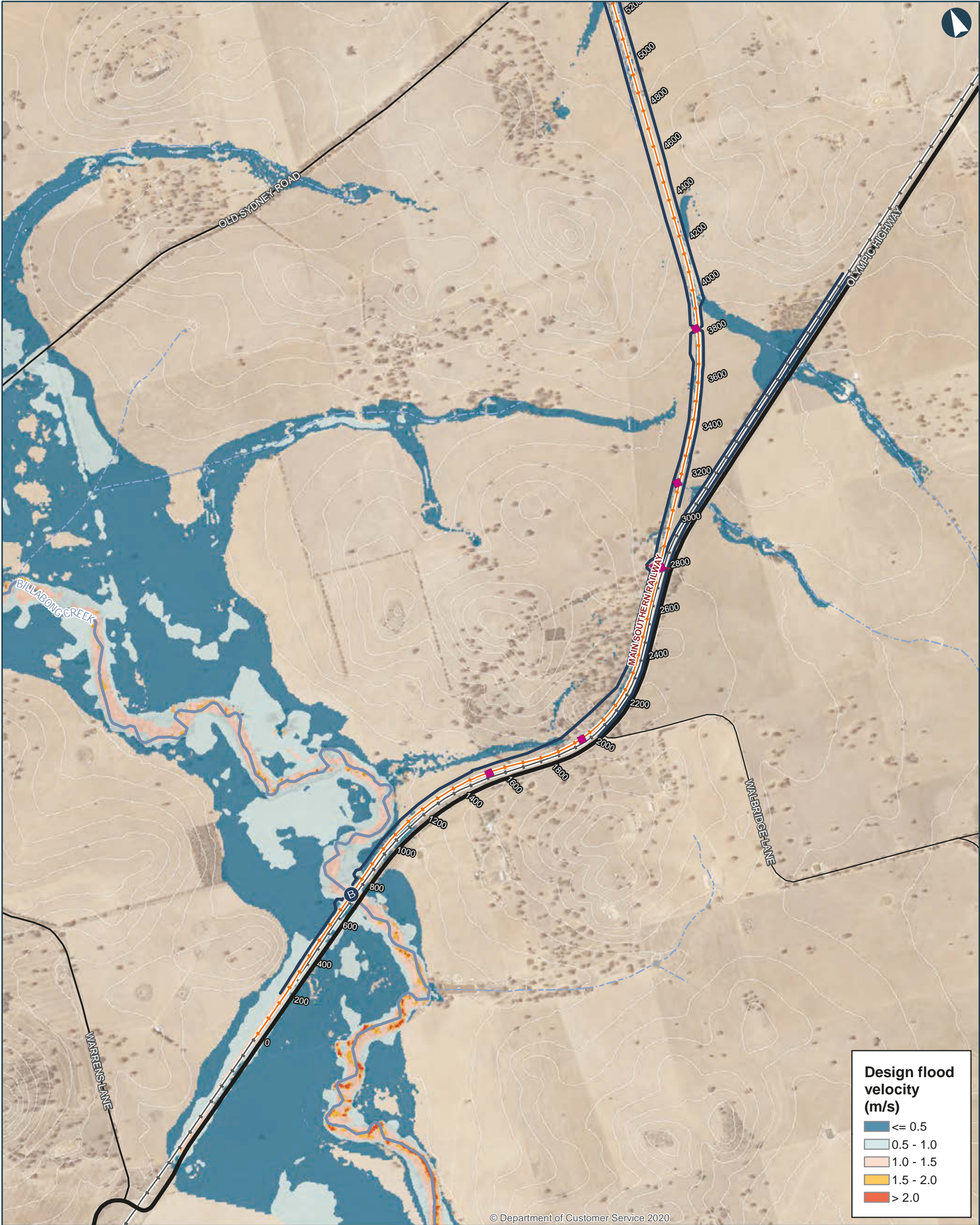
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 10% AEP Flood Design Velocity

Map 1 of 9

0 200 400 Metres

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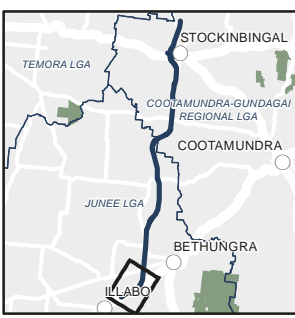
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— Local road

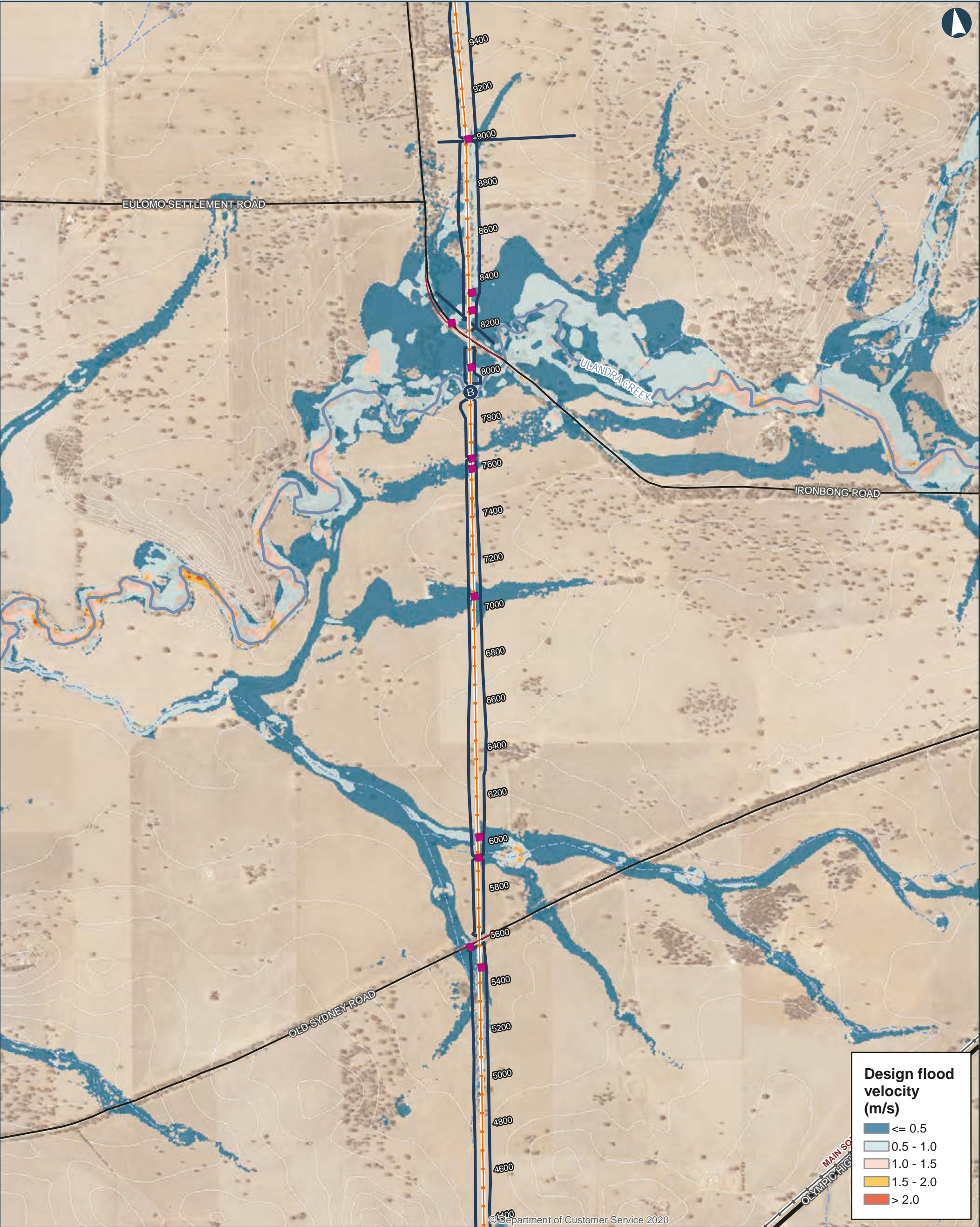
— Sub-arterial road

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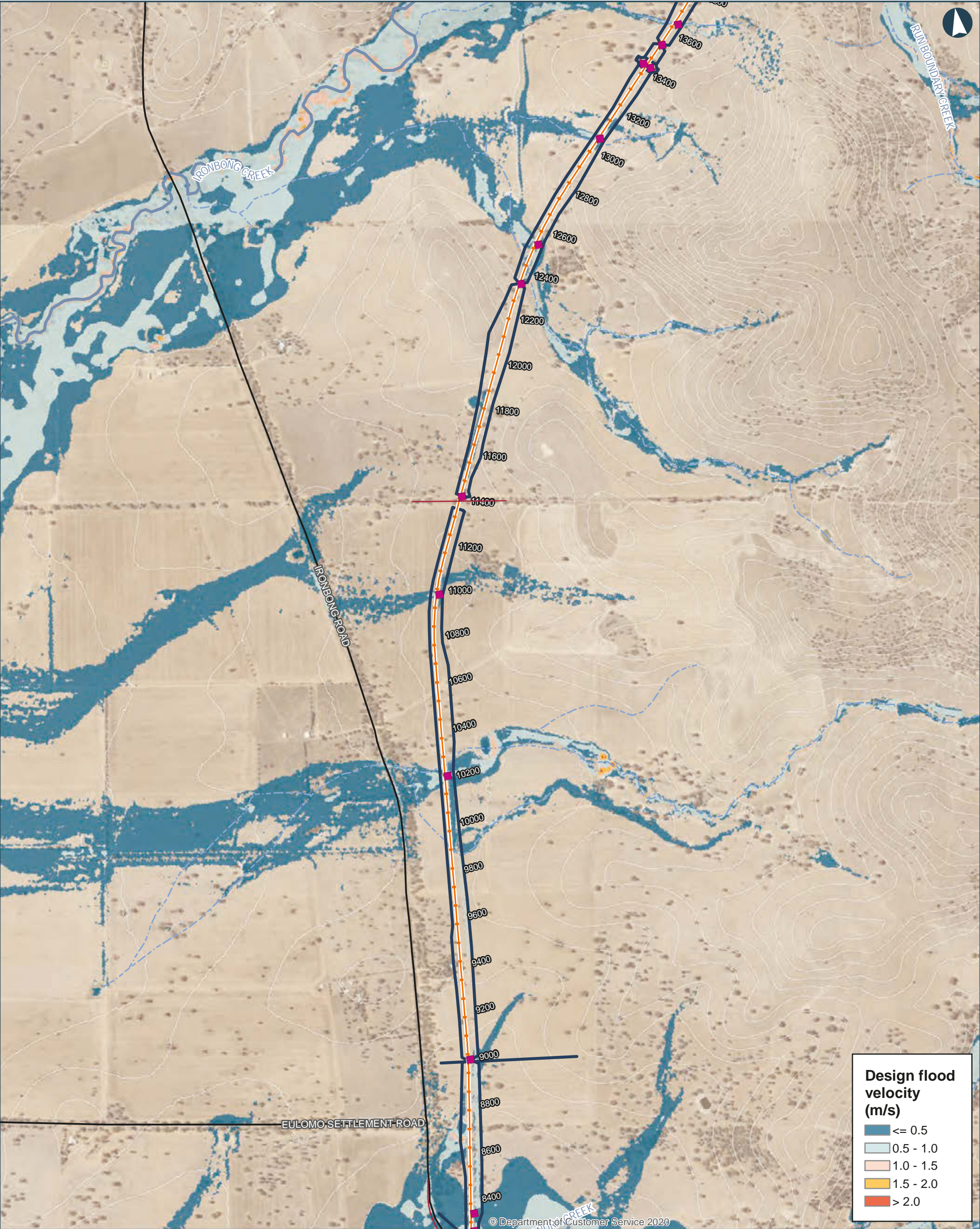
— Local road

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ILLABO TO STOCKINBINGAL 10% AEP Flood Design Velocity

Map 3 of 9

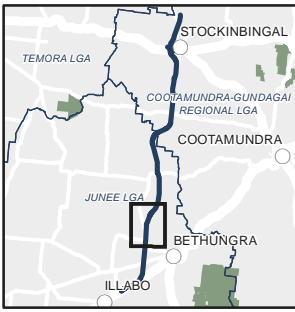
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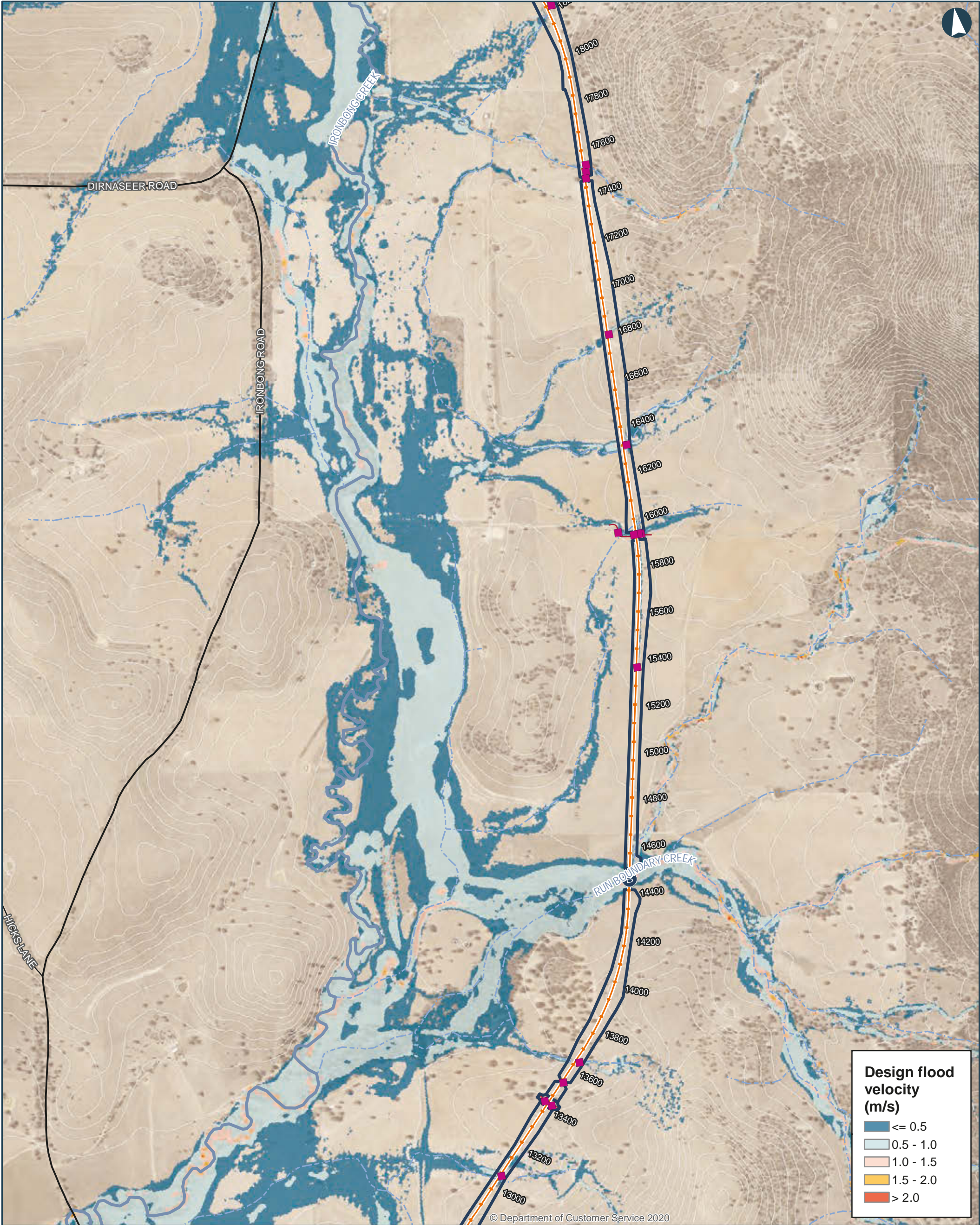
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ILLABO TO STOCKINBINGAL 10% AEP Flood Design Velocity

Map 4 of 9

0 200 400 Metres

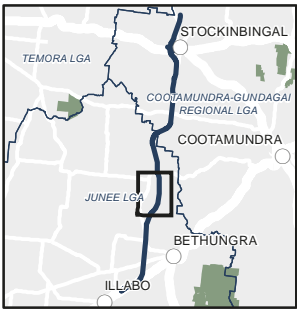
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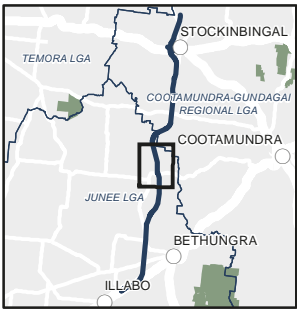
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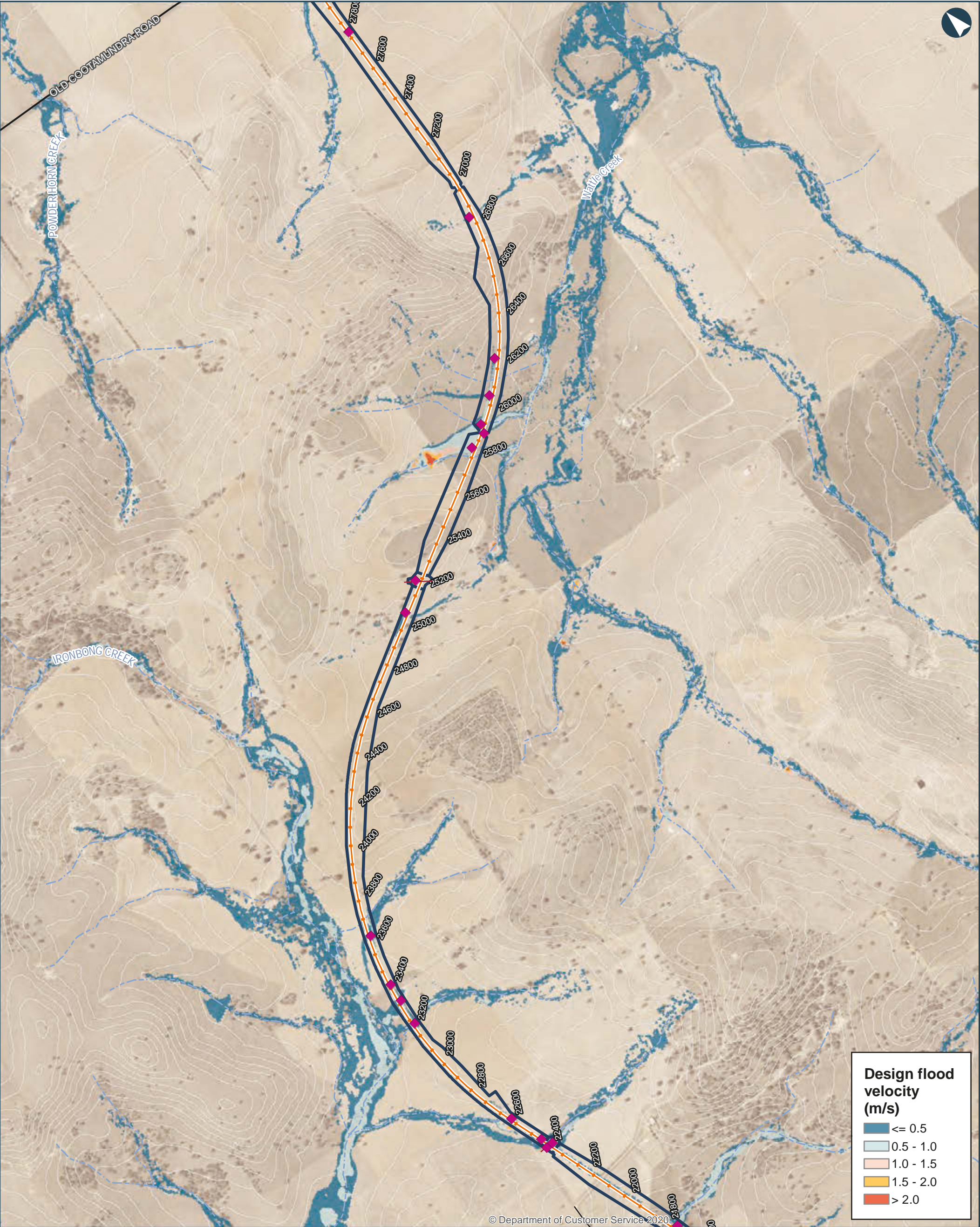
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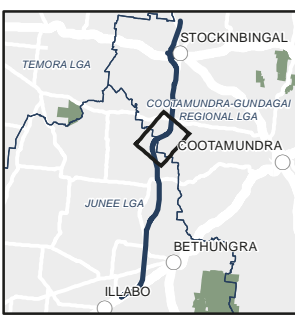
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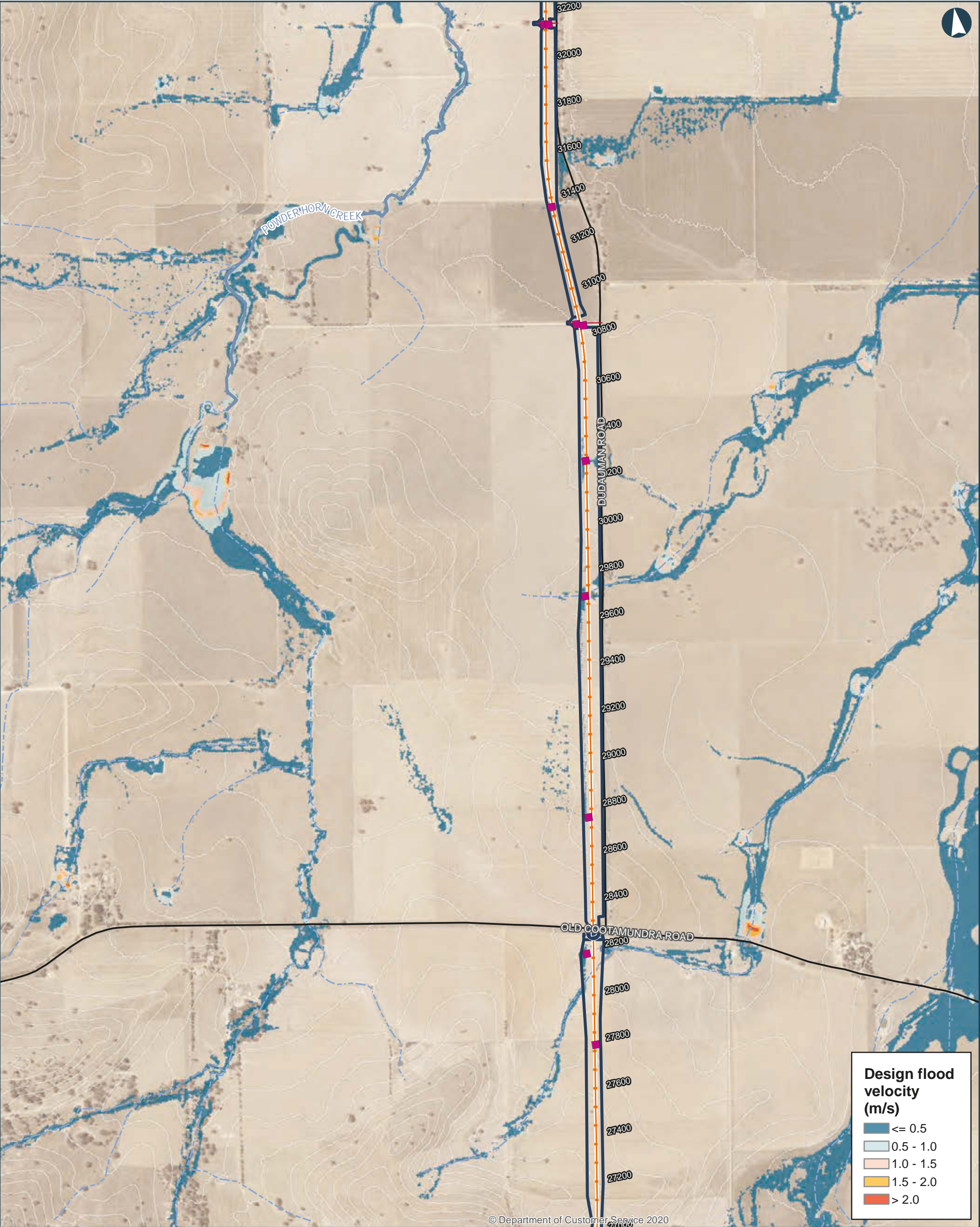
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ILLABO TO STOCKINBINGAL 10% AEP Flood Design Velocity

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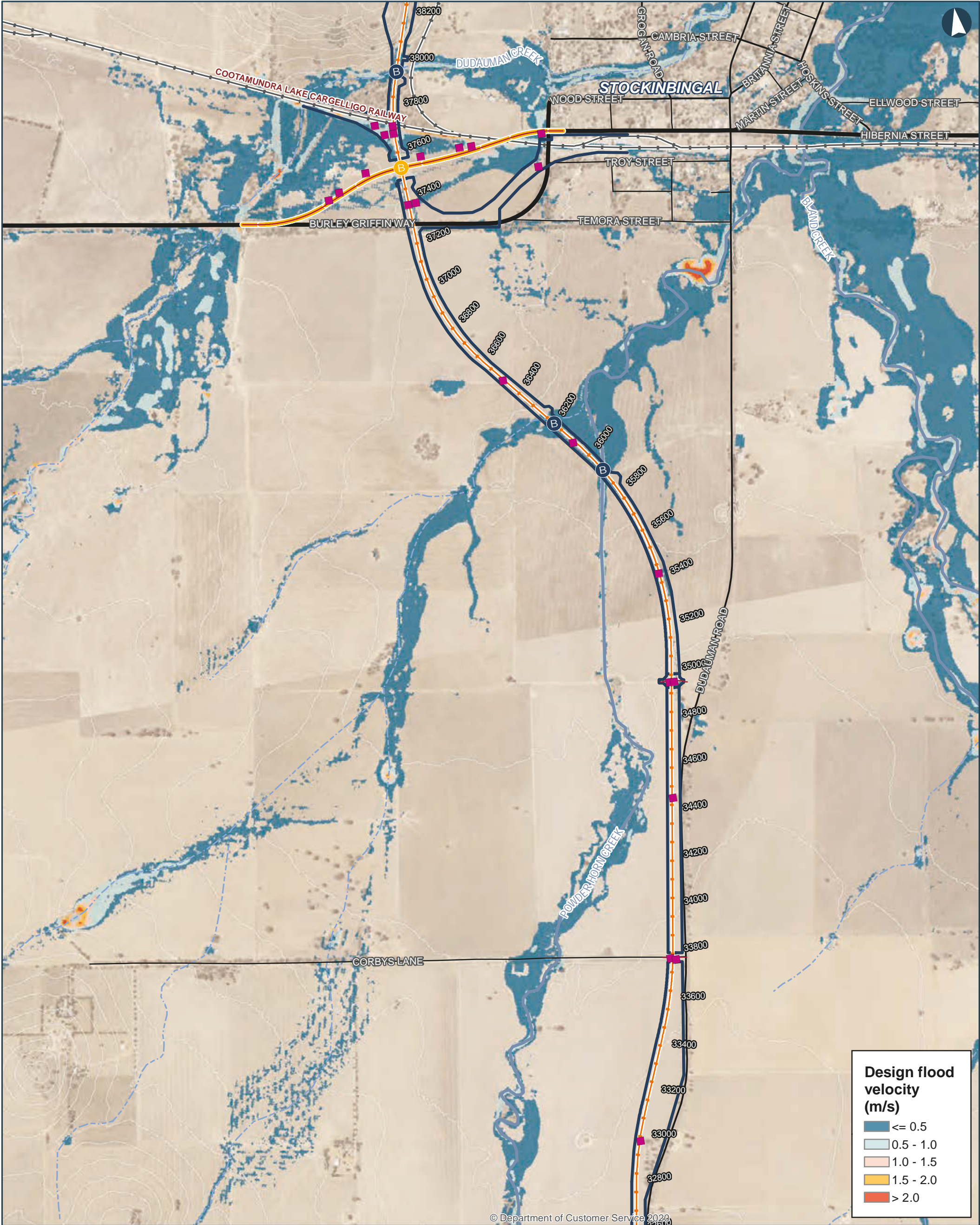
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0 200 400
Metres

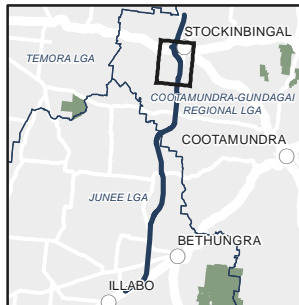
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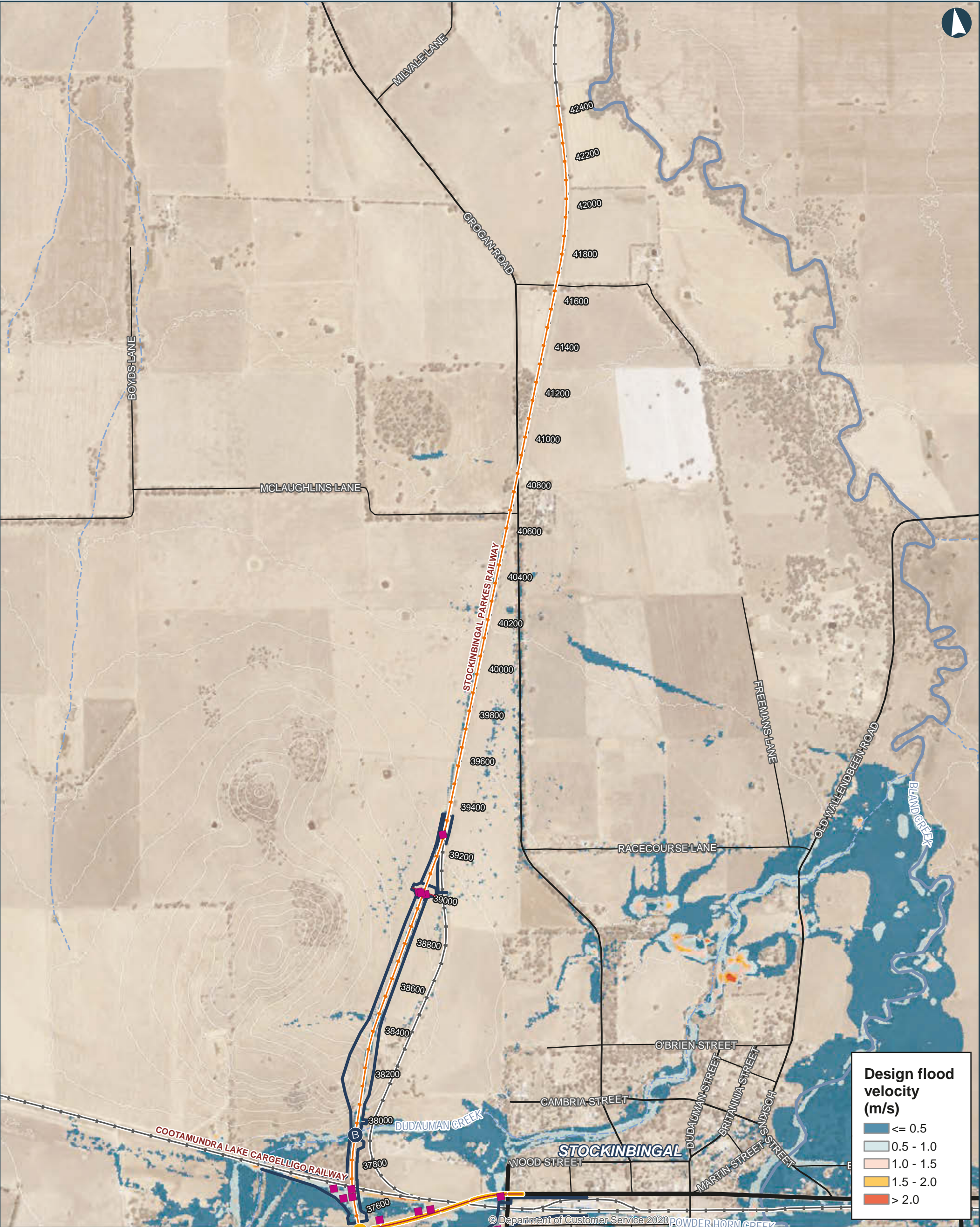
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0 200 400 Metres

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

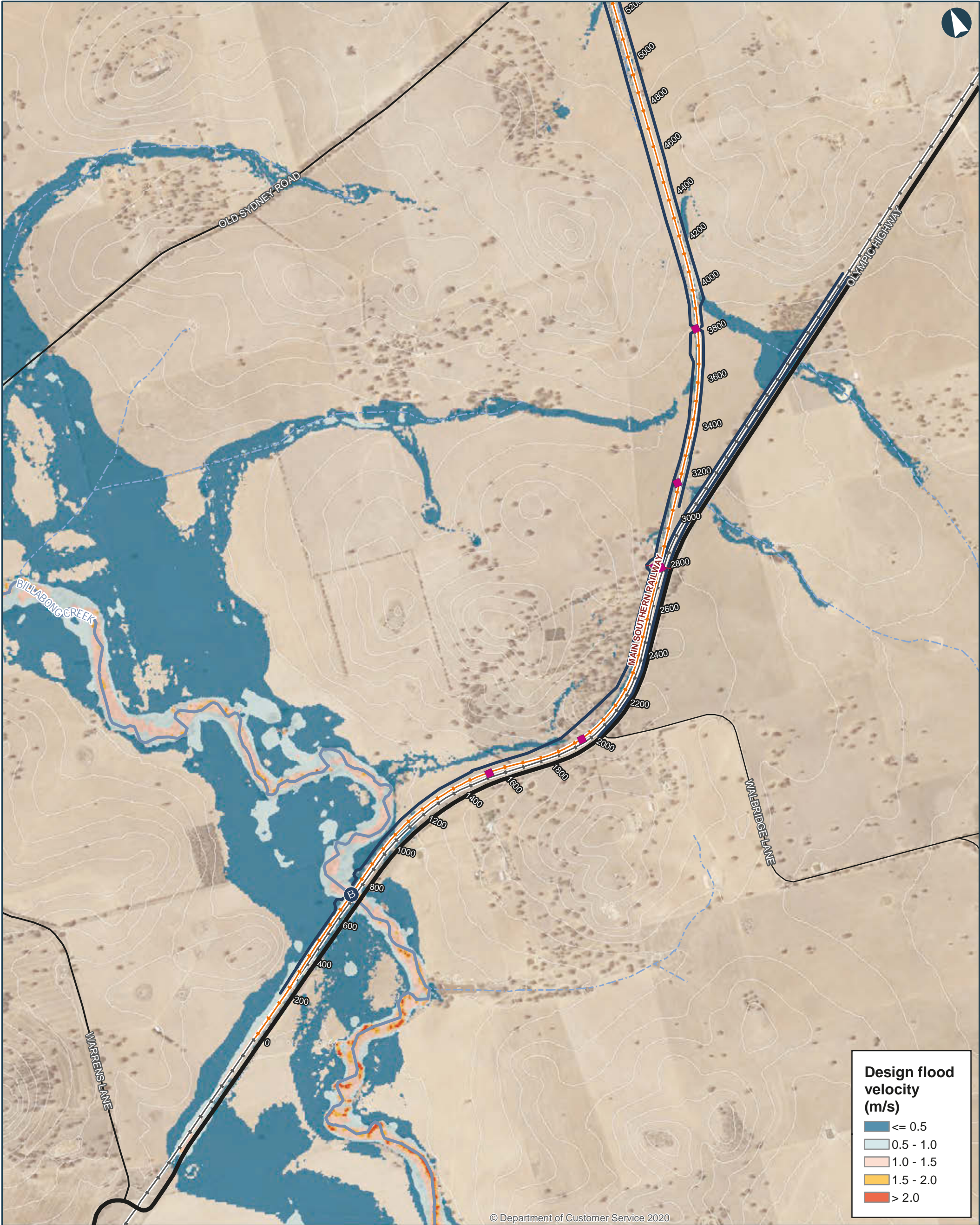
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 5% AEP Flood Design Velocity

Map 1 of 9

0 200 400 Metres

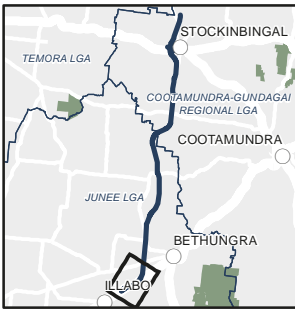
Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

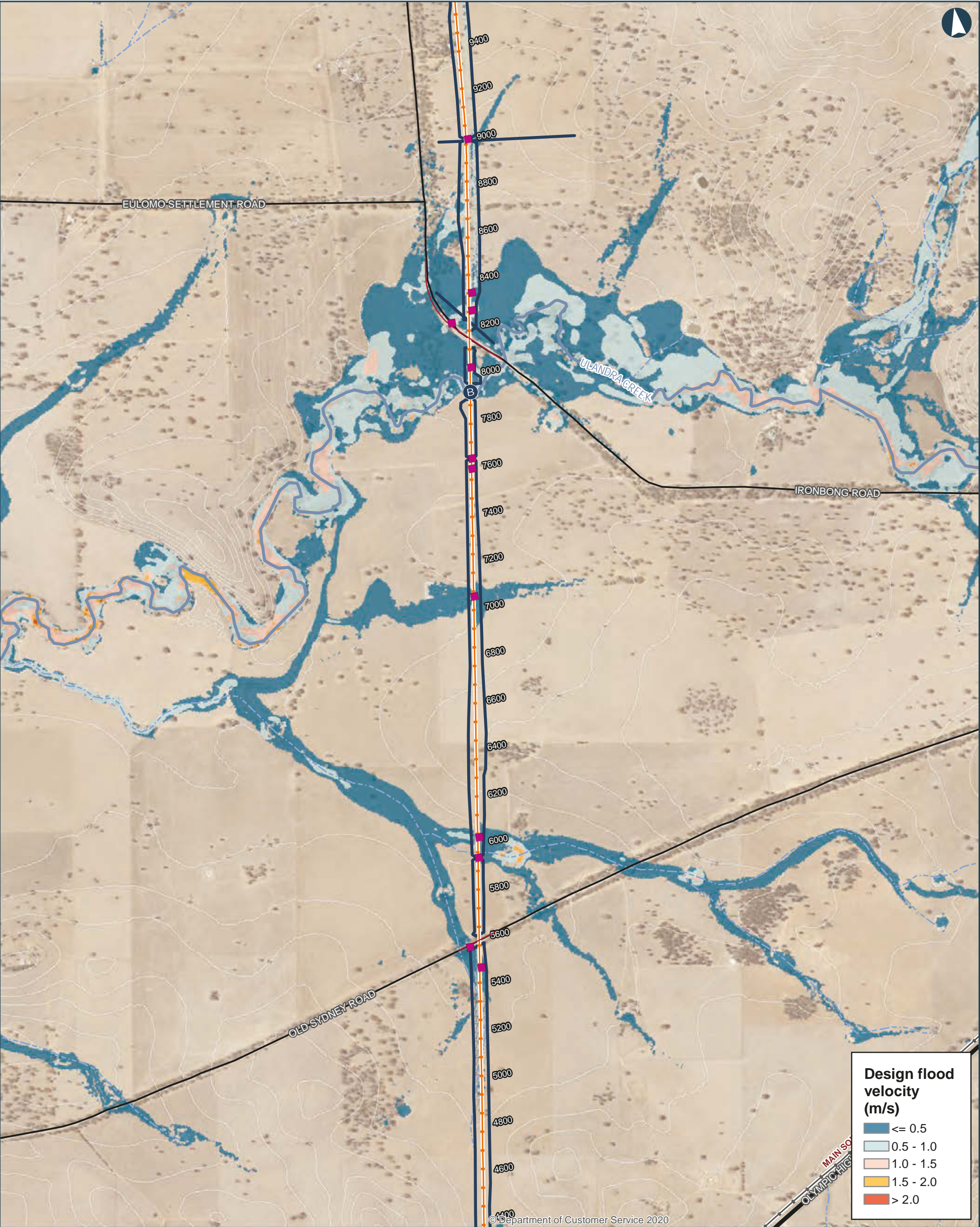
Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
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- Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

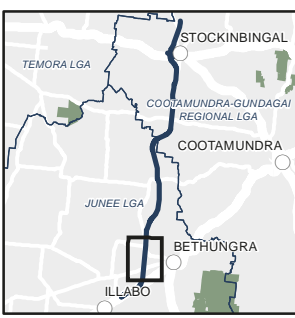
--- Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

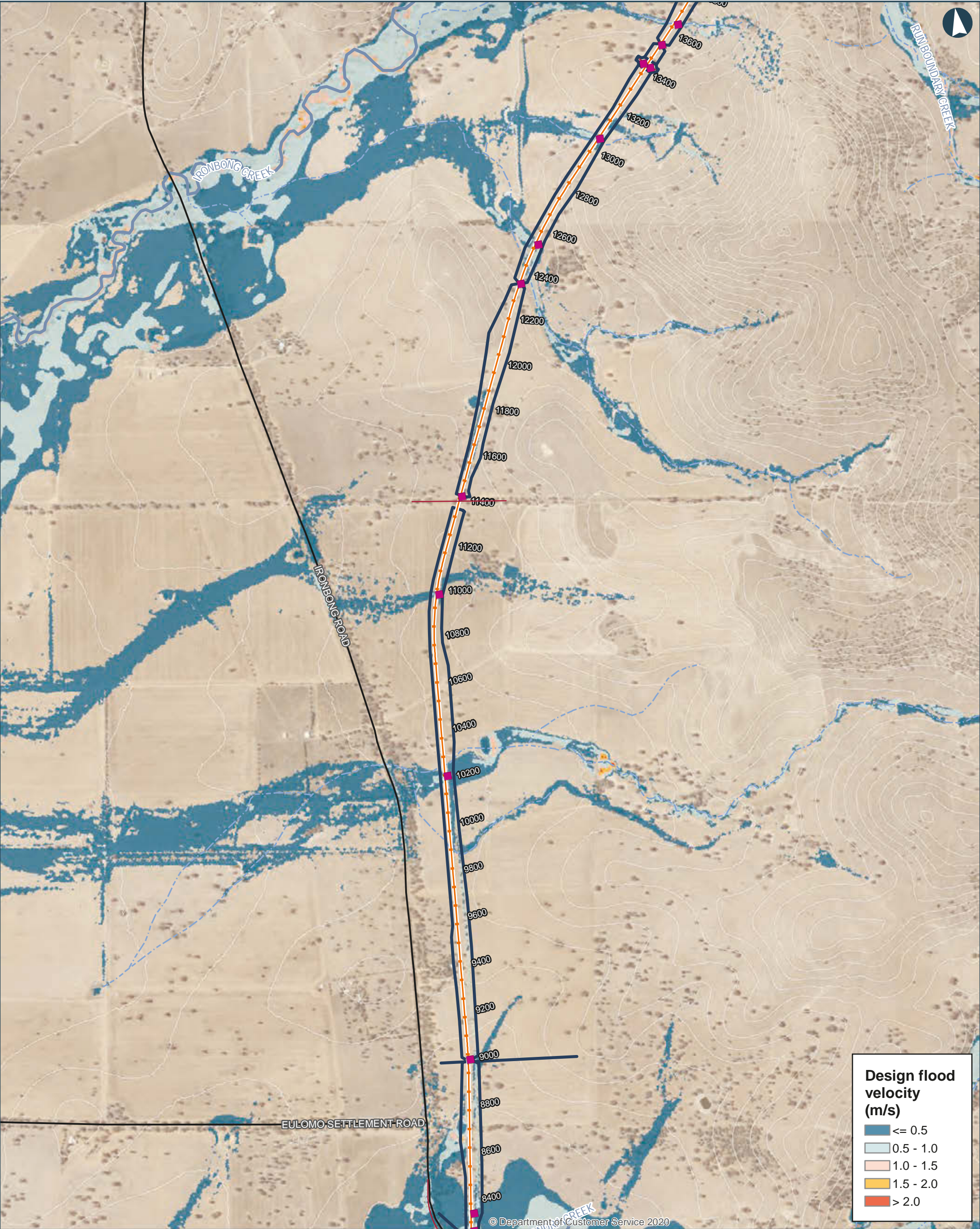
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Flood Design Velocity

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Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

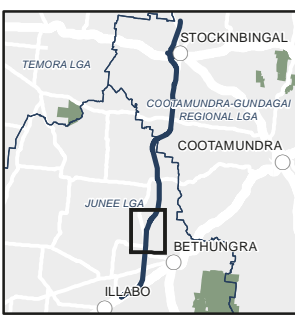
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

— Sub-arterial road

— Arterial road



INLAND RAIL

ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Flood Design Velocity

Map 4 of 9

0 200 400 Metres

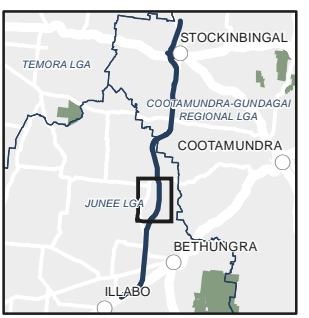
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Data Sources: IRDJV, ARTC, LPI

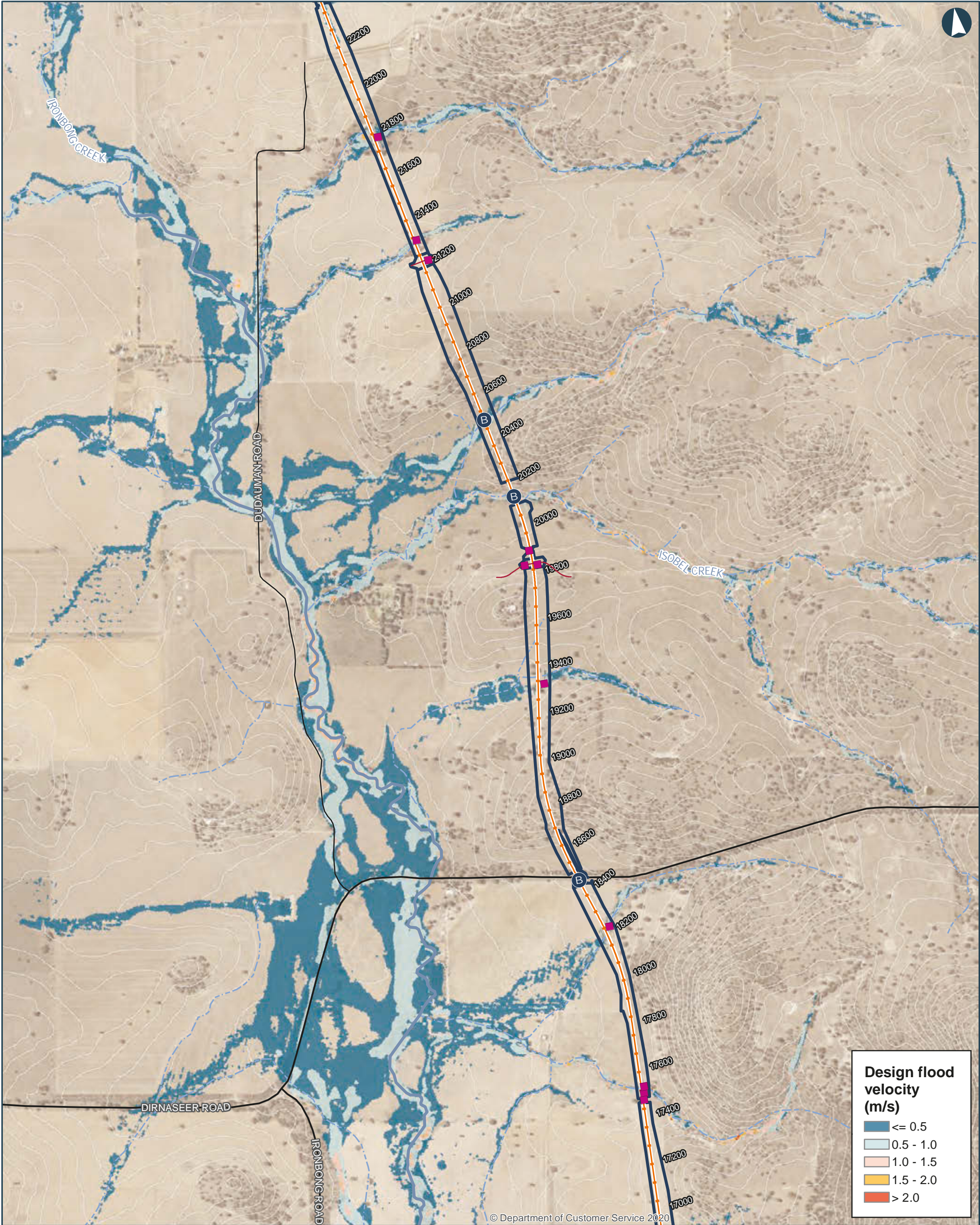
Paper: A3
Scale: 1:15,000

- Proposal site
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ILLABO TO STOCKINBINGAL 5% AEP Flood Design Velocity

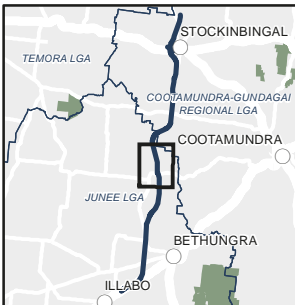
Map 5 of 9

0 200 400 Metres

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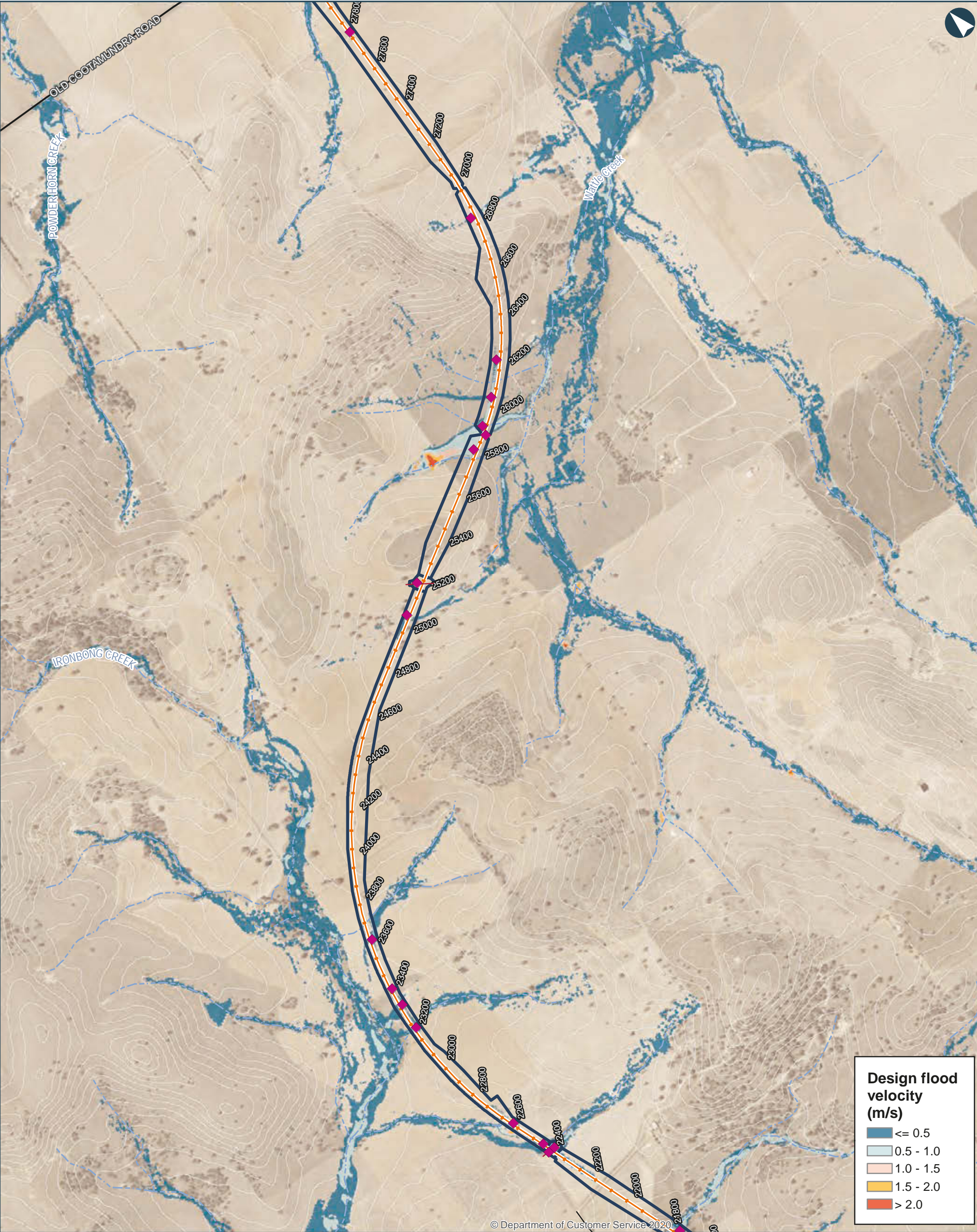
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
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- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Flood Design Velocity

Map 6 of 9

0 200 400 Metres

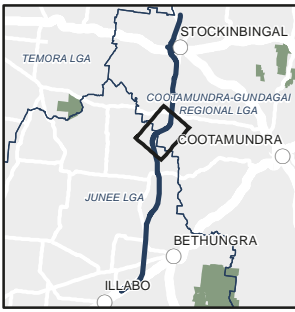
Coordinate System: GDA 1994 MGA Zone 55

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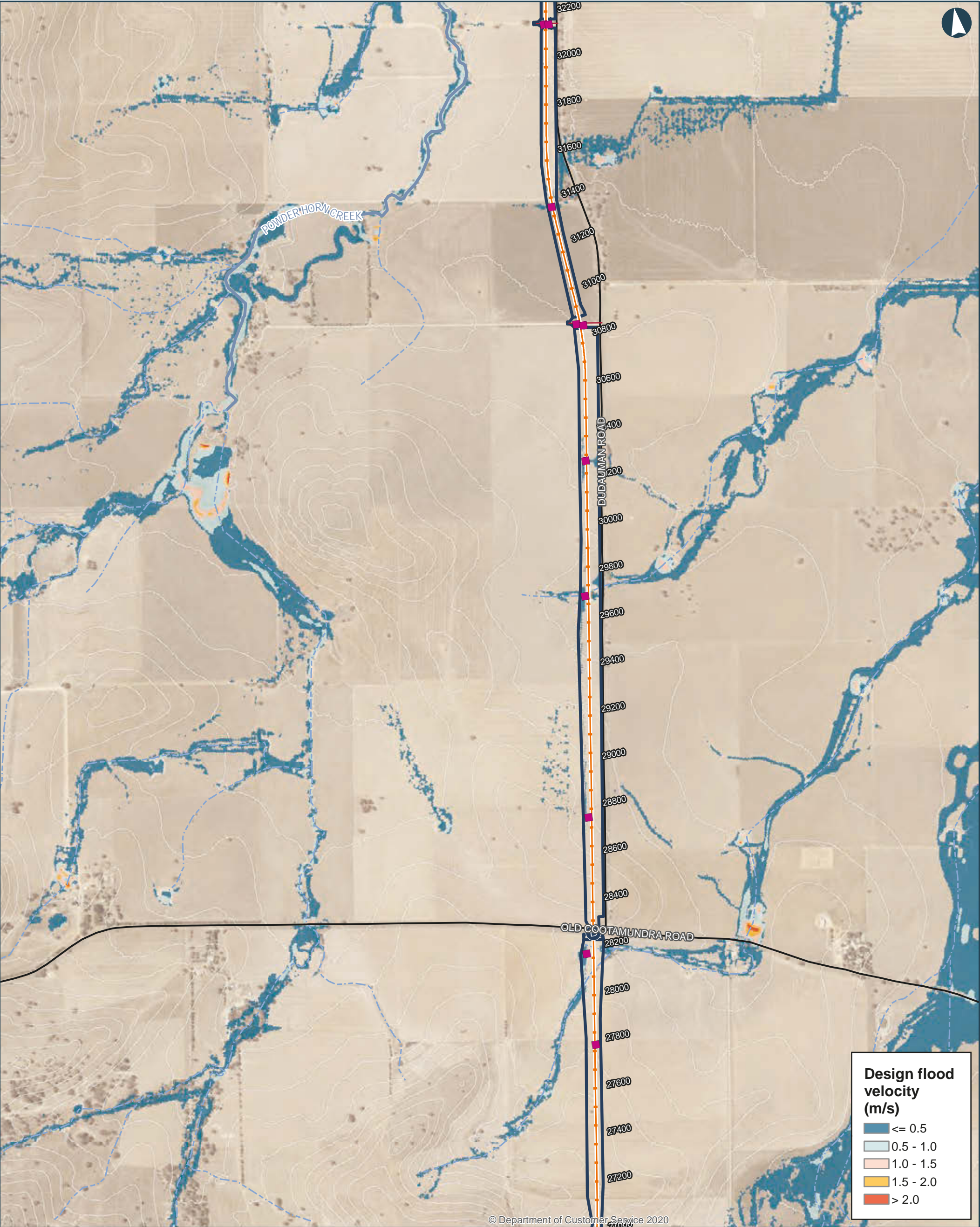
Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
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- Underbridge
- Culvert
- 5m Contours
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- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
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- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINAL 5% AEP Flood Design Velocity

Map 7 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

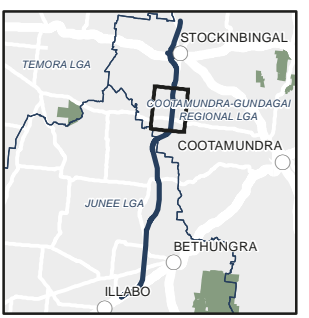
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

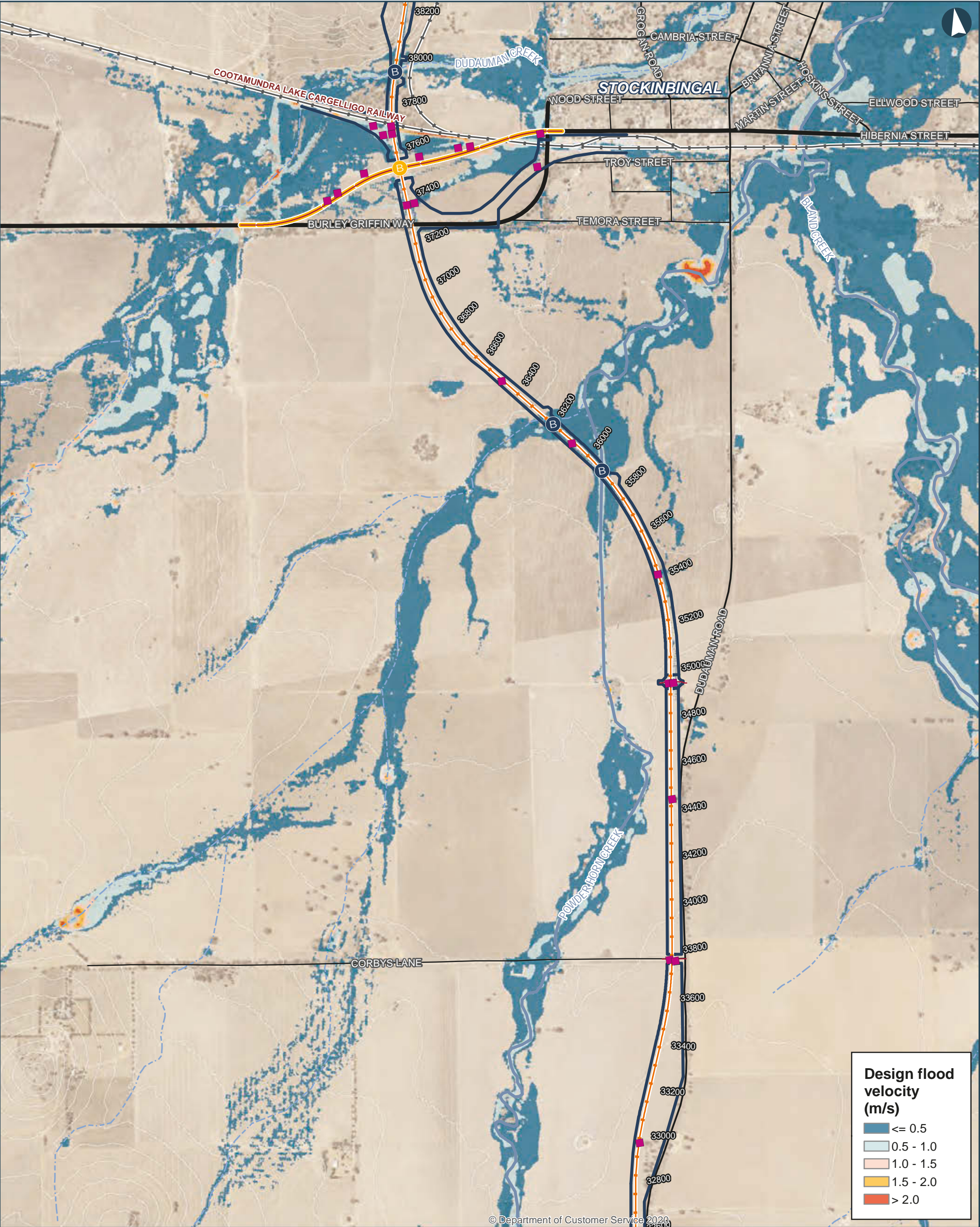
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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0200400Metres

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

STOCKINBINGAL

ILLABO

COOTAMUNDRA-GUNDAGUI REGIONAL LGA

COOTAMUNDRA

BETHUNGRA

JUNEE LGA

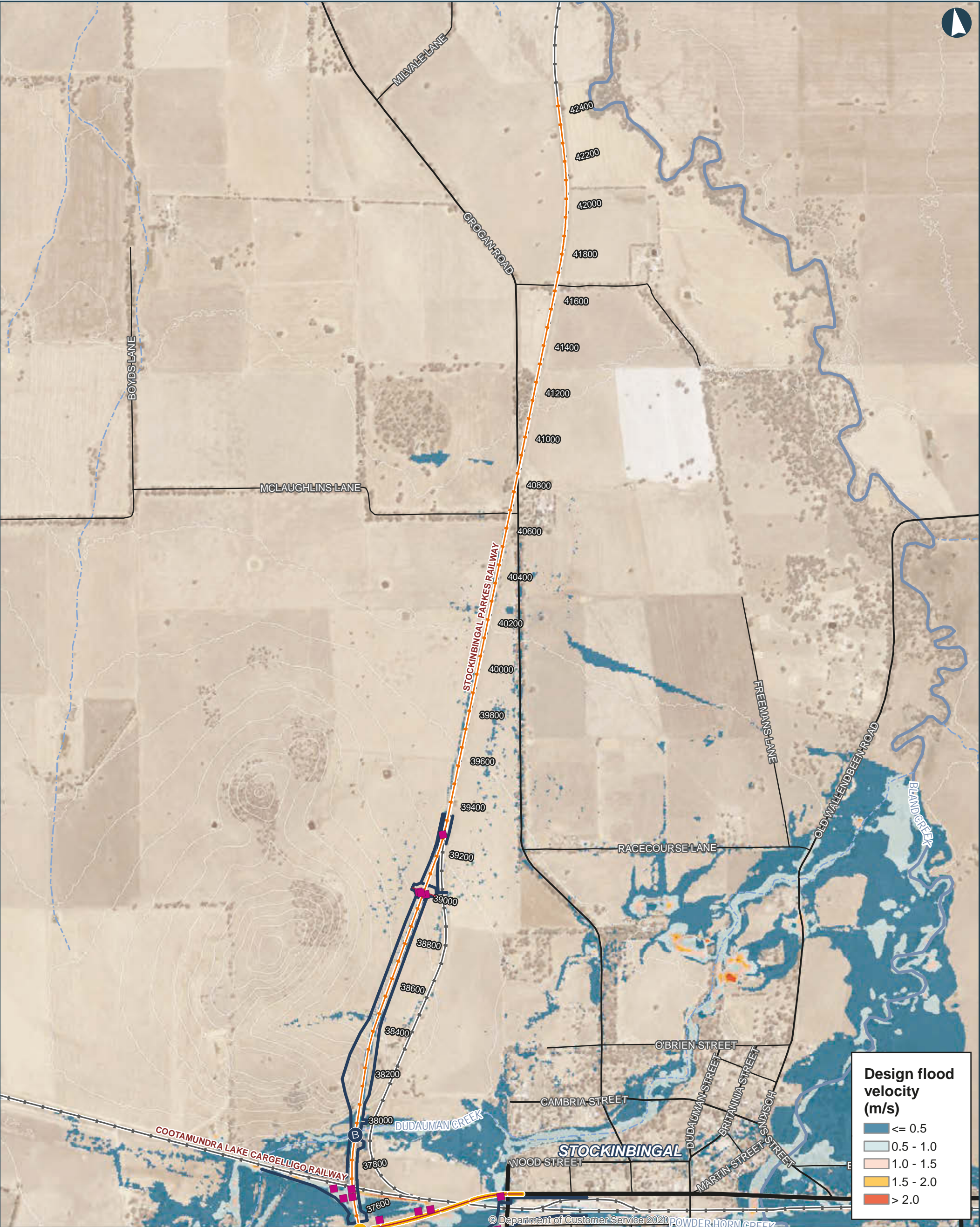
TEMORA LGA

INLAND RAIL

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G:\Projects\PS108286_ILS\Tasks\220_0118_HYD_HydrologyReportResubmissionMay22\Documents\5AEP\220_0118_HYD_5AEPDesignVelocity_v2.mxd



ILLABO TO STOCKINBINGAL 5% AEP Flood Design Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Proposal site

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New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

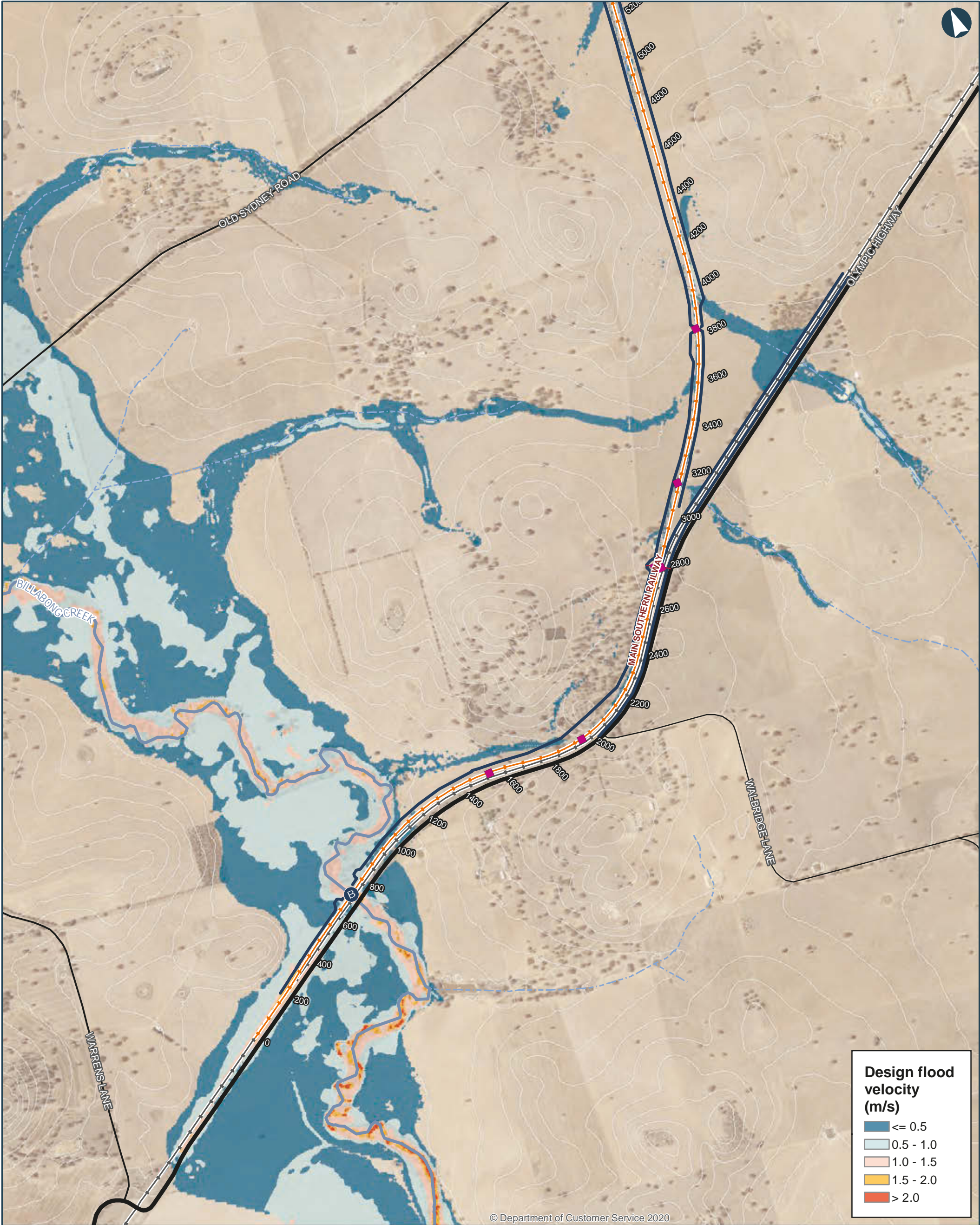
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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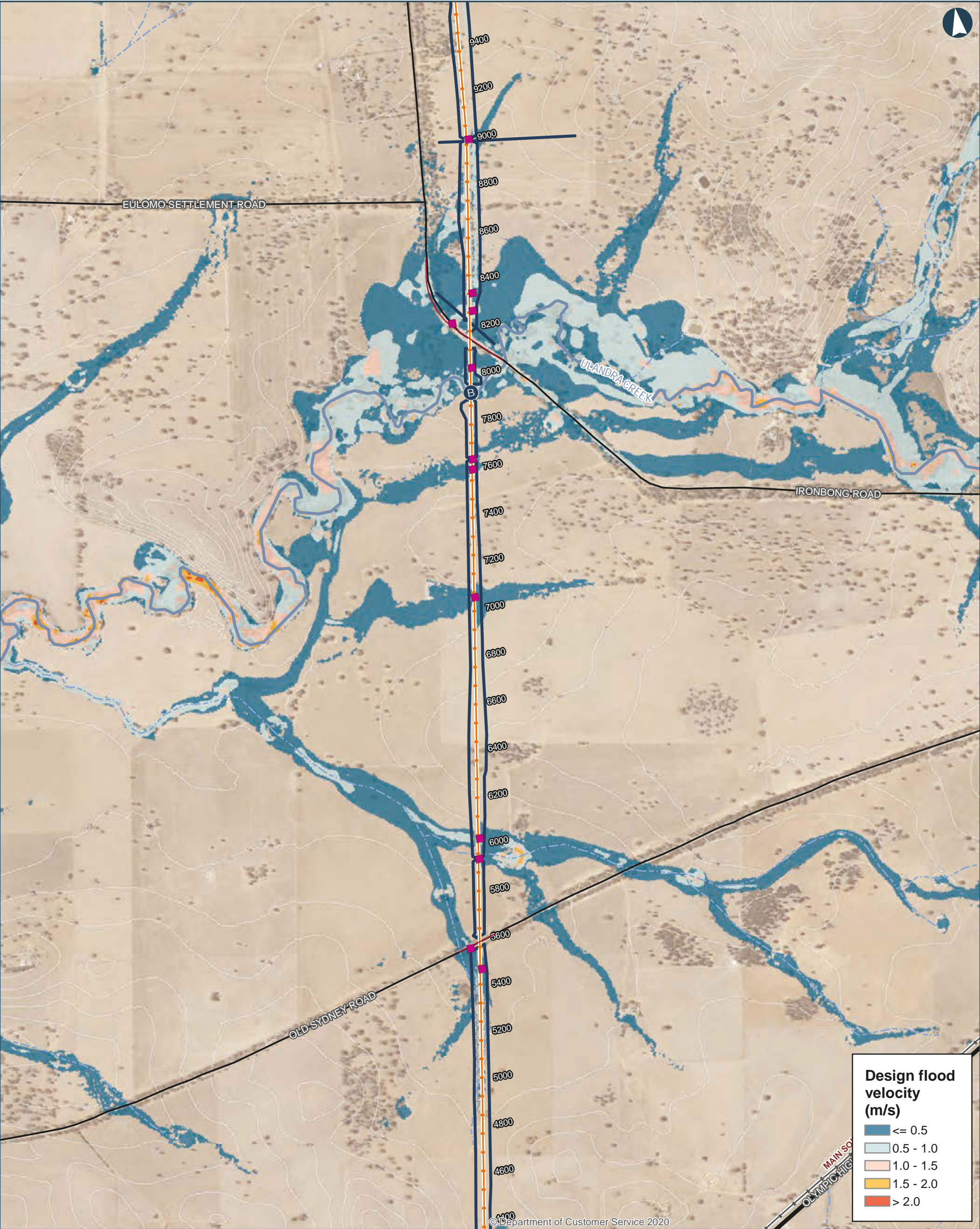
- Proposal site
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- Overbridge
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- 5m Contours
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INLAND RAIL

ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

0200400Metres

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

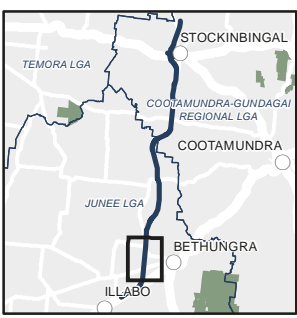
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

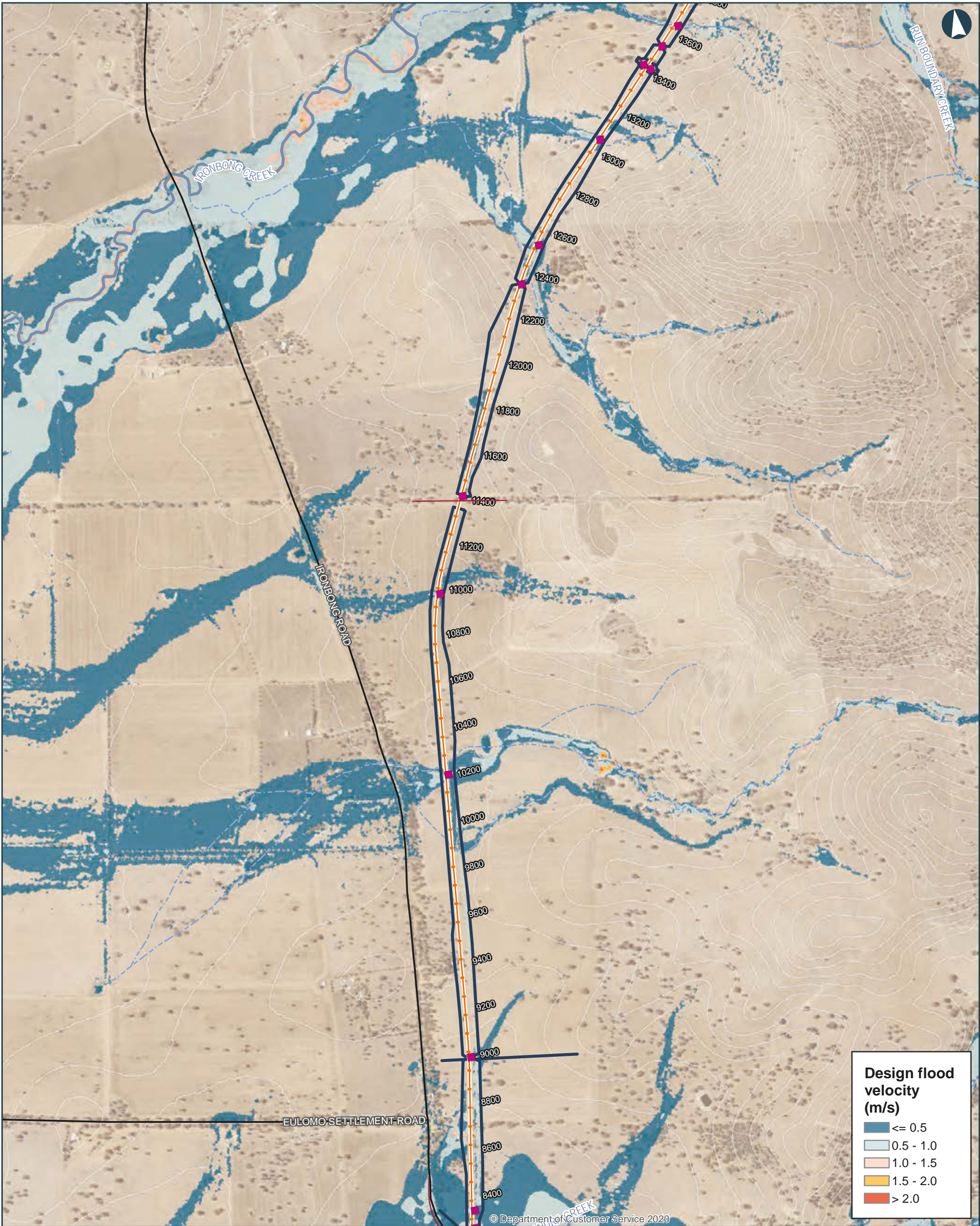
— Local road

— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

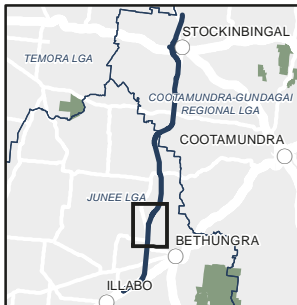
Map 3 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55
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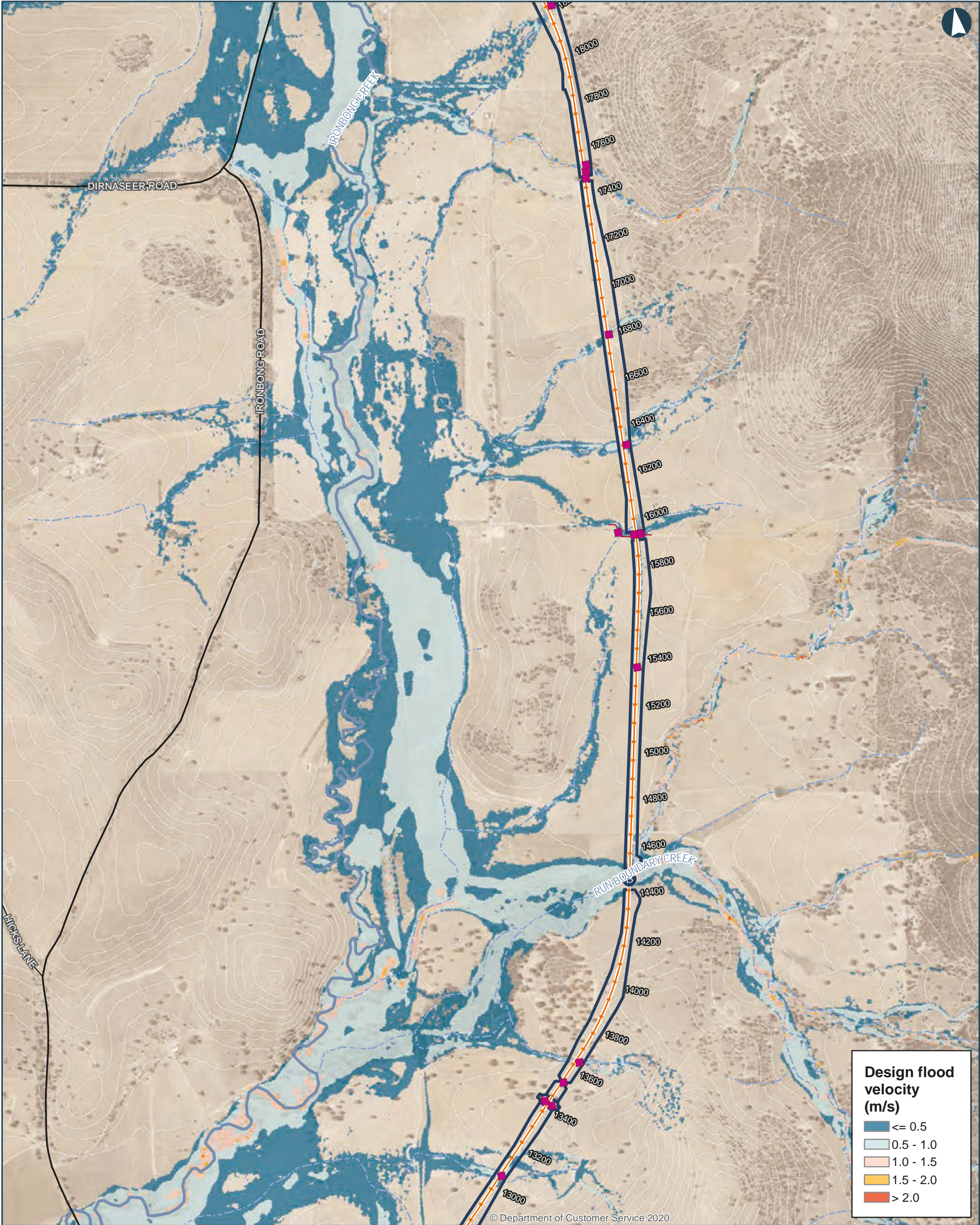
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
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- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
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- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

Map 4 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3
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— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

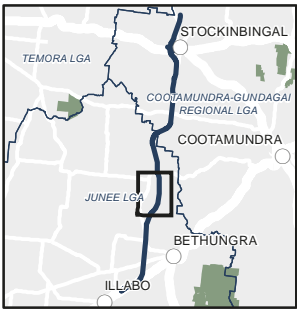
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

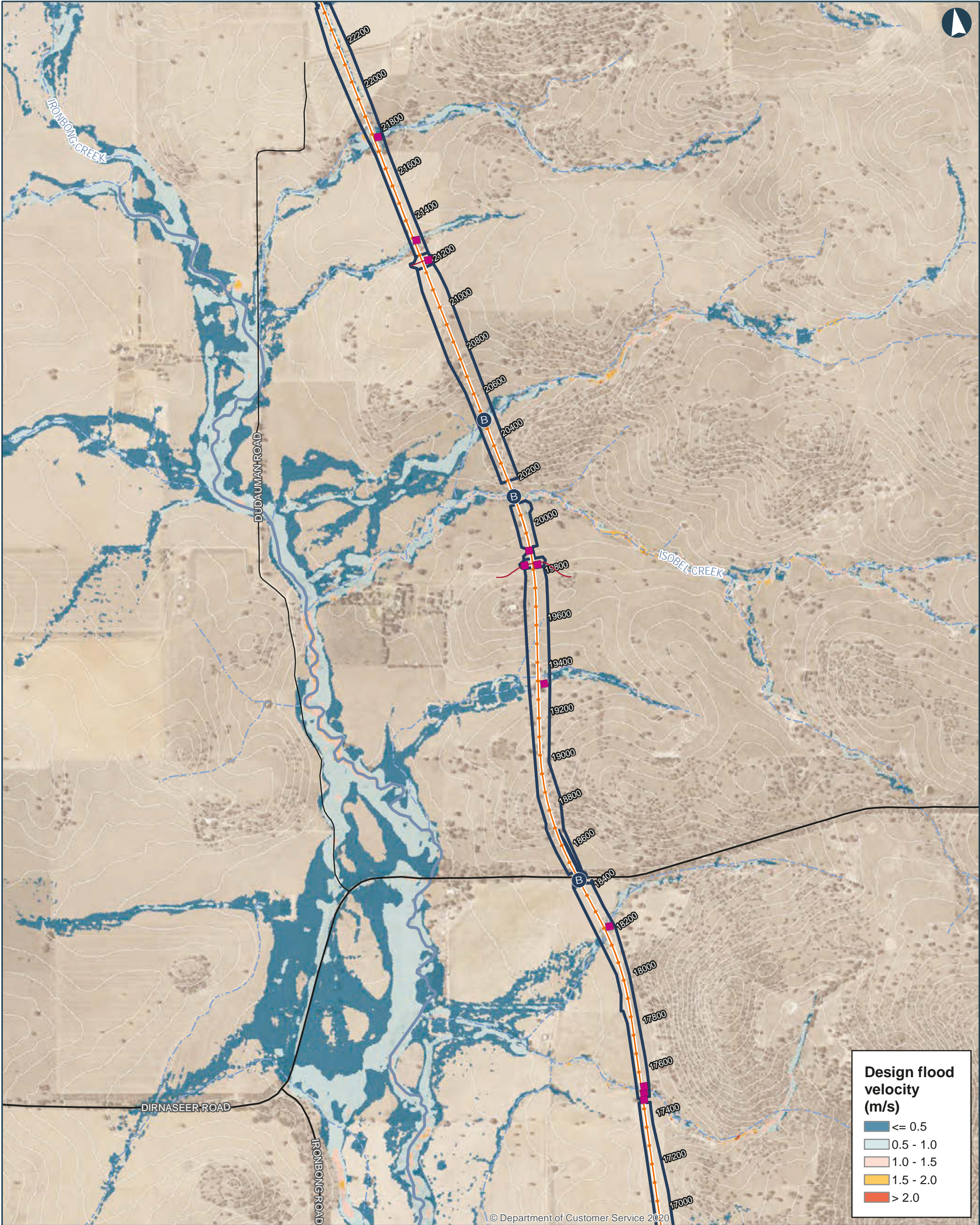
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

Map 5 of 9

0 200 400 Metres

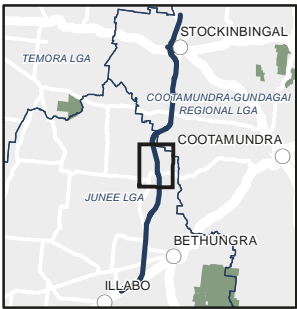
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- Underbridge
- Culvert
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INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

Map 6 of 9

0 200 400 Metres

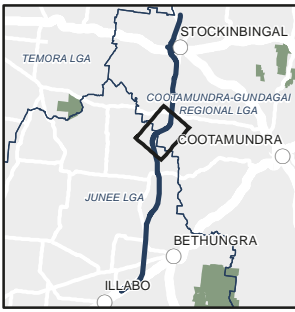
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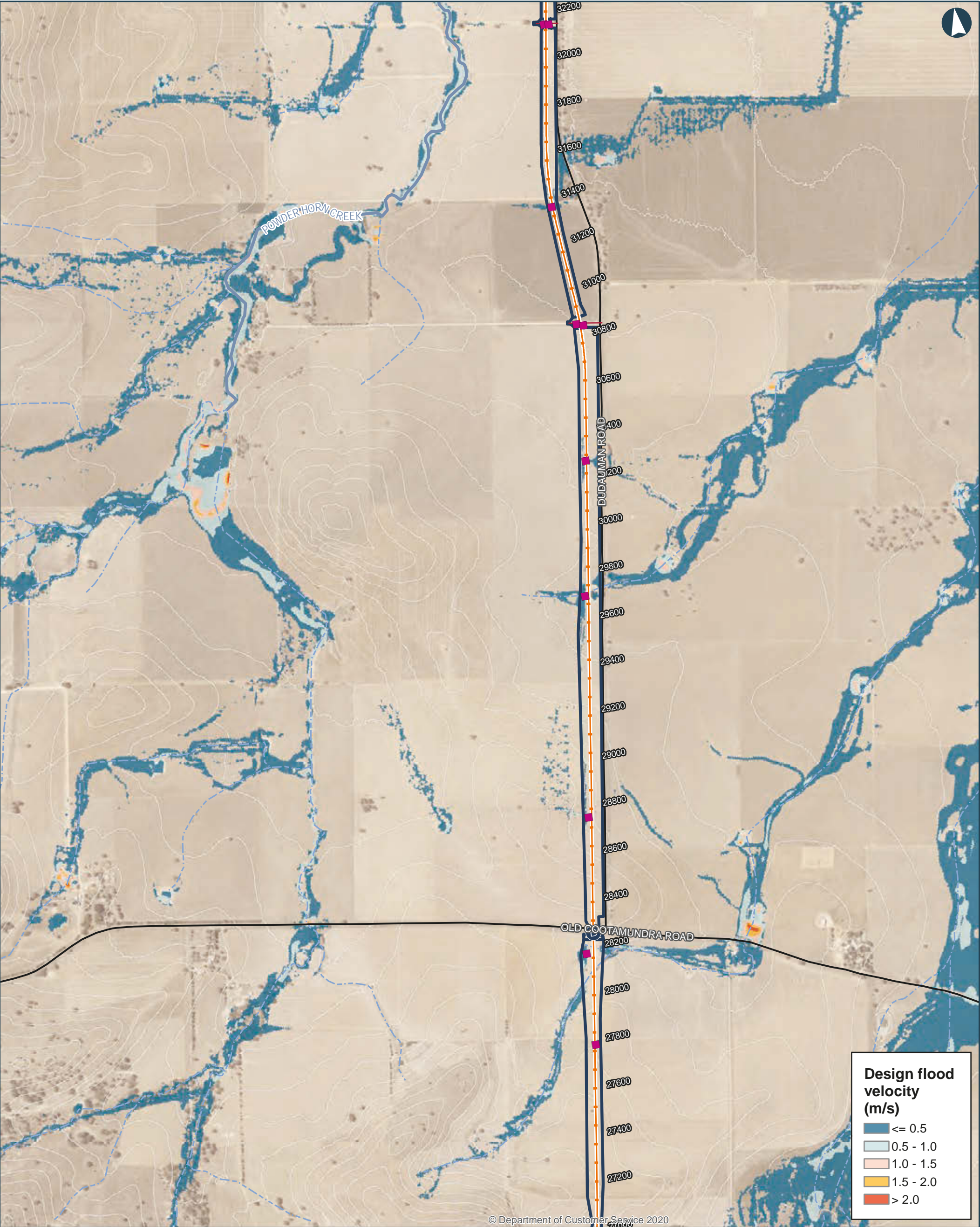
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- Major watercourse (Strahler SO 4-6)
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INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

Map 7 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

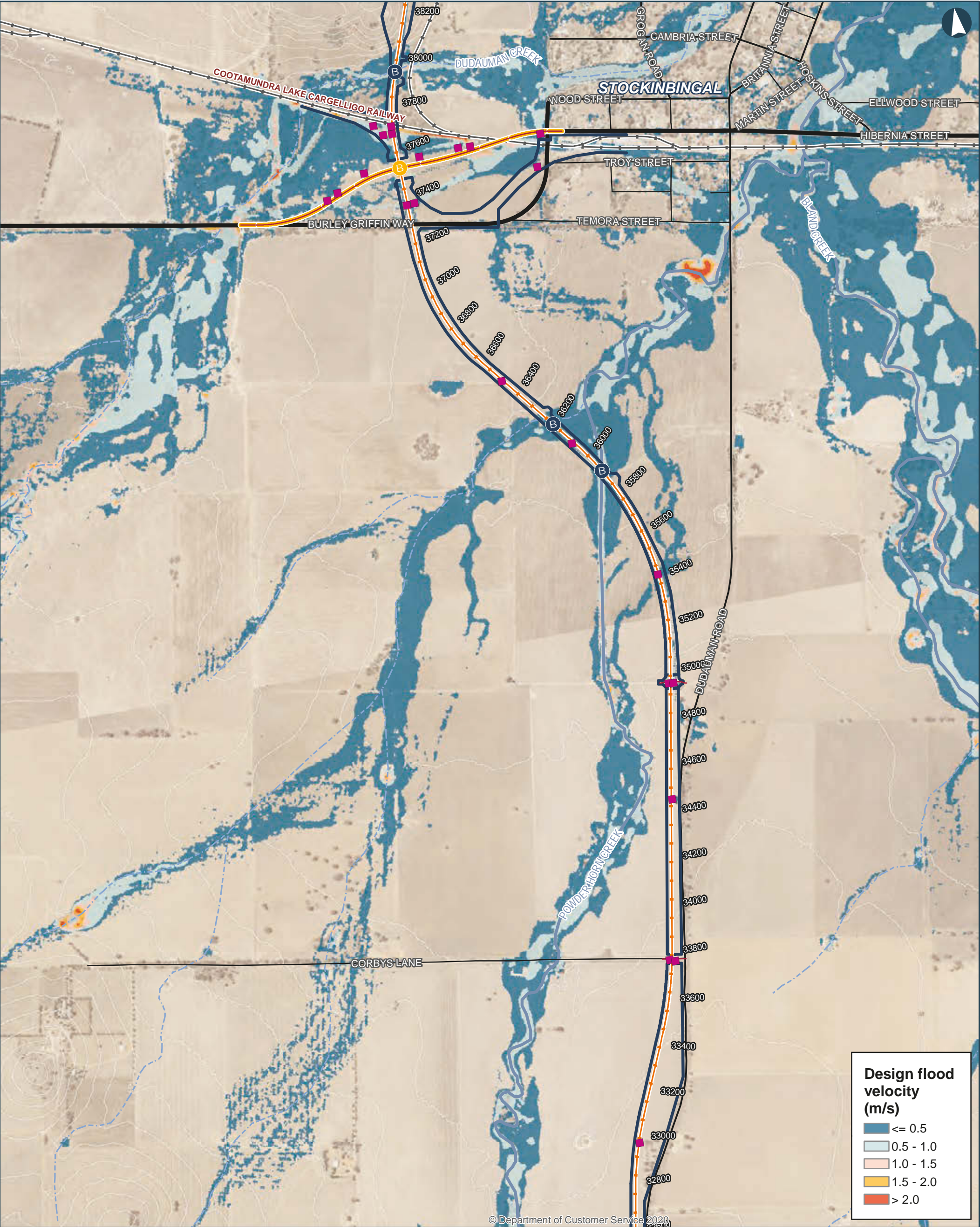
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

Map 8 of 9

0 200 400
Metres

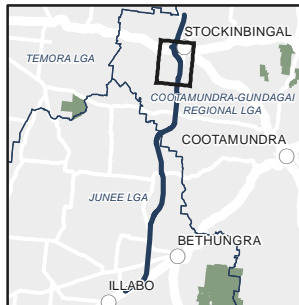
Coordinate System: GDA 1994 MGA Zone 55
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Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Burley Griffin Way Realignment
- Overbridge

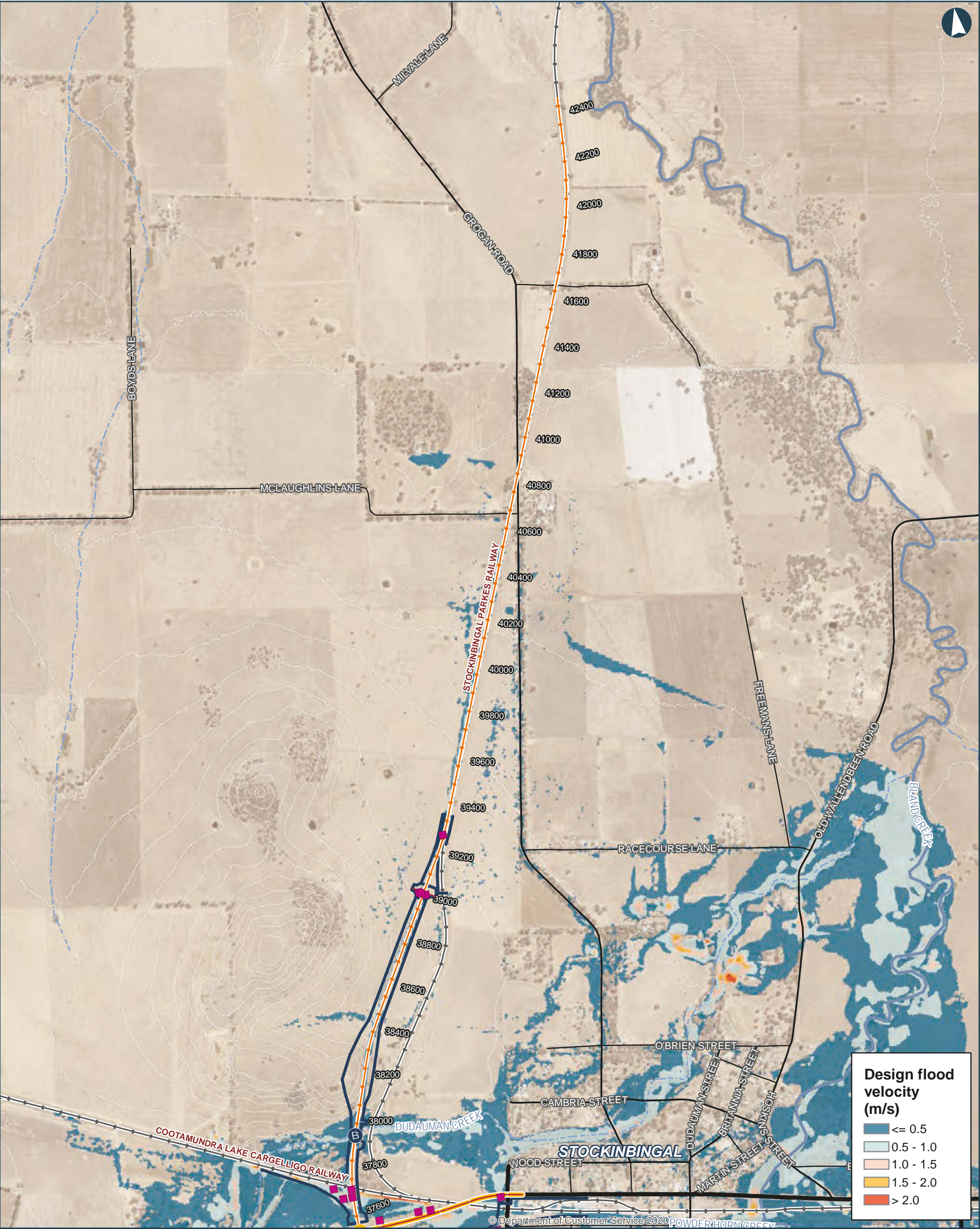
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Flood Design Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

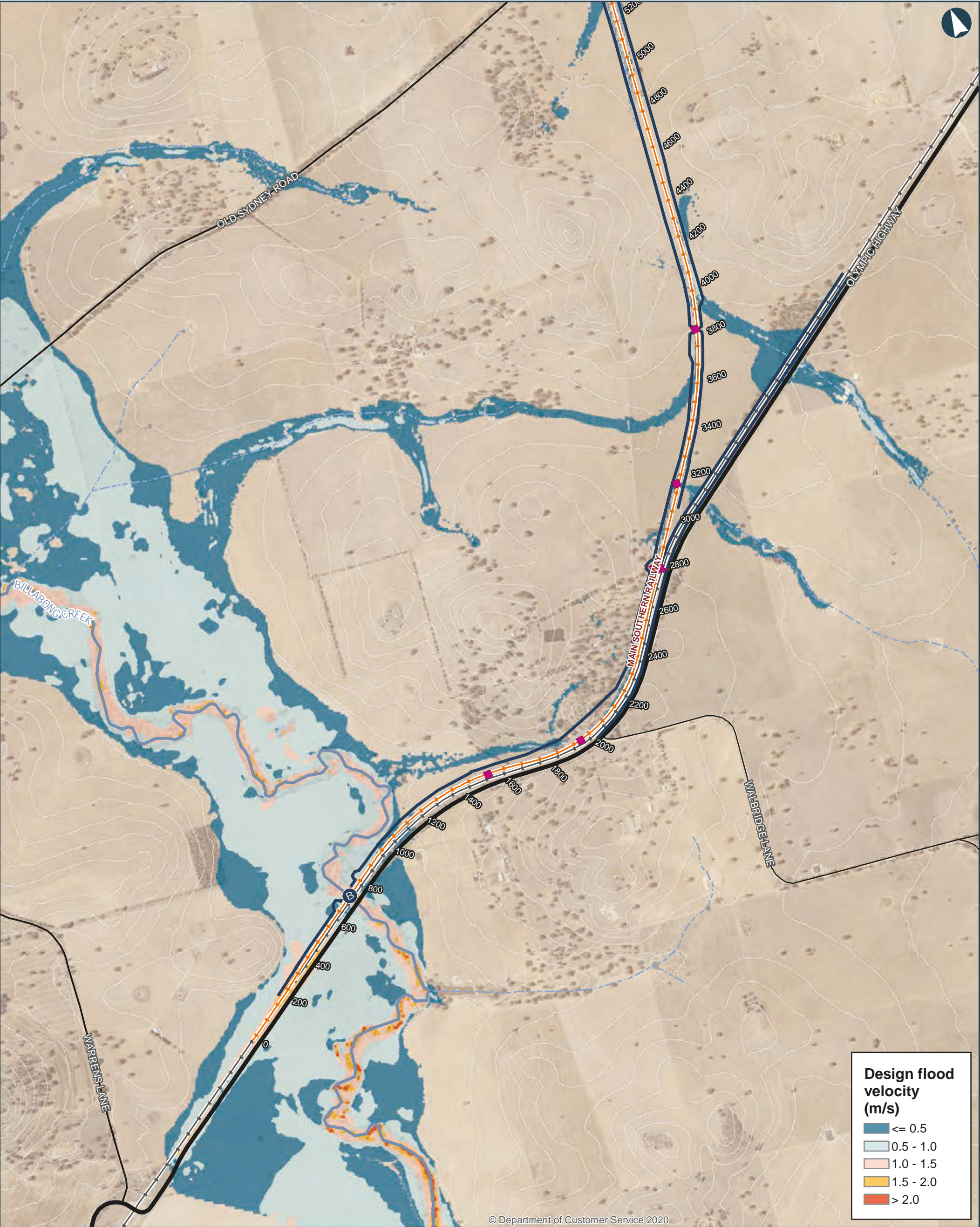
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

Map 1 of 9

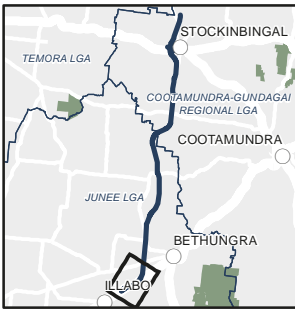
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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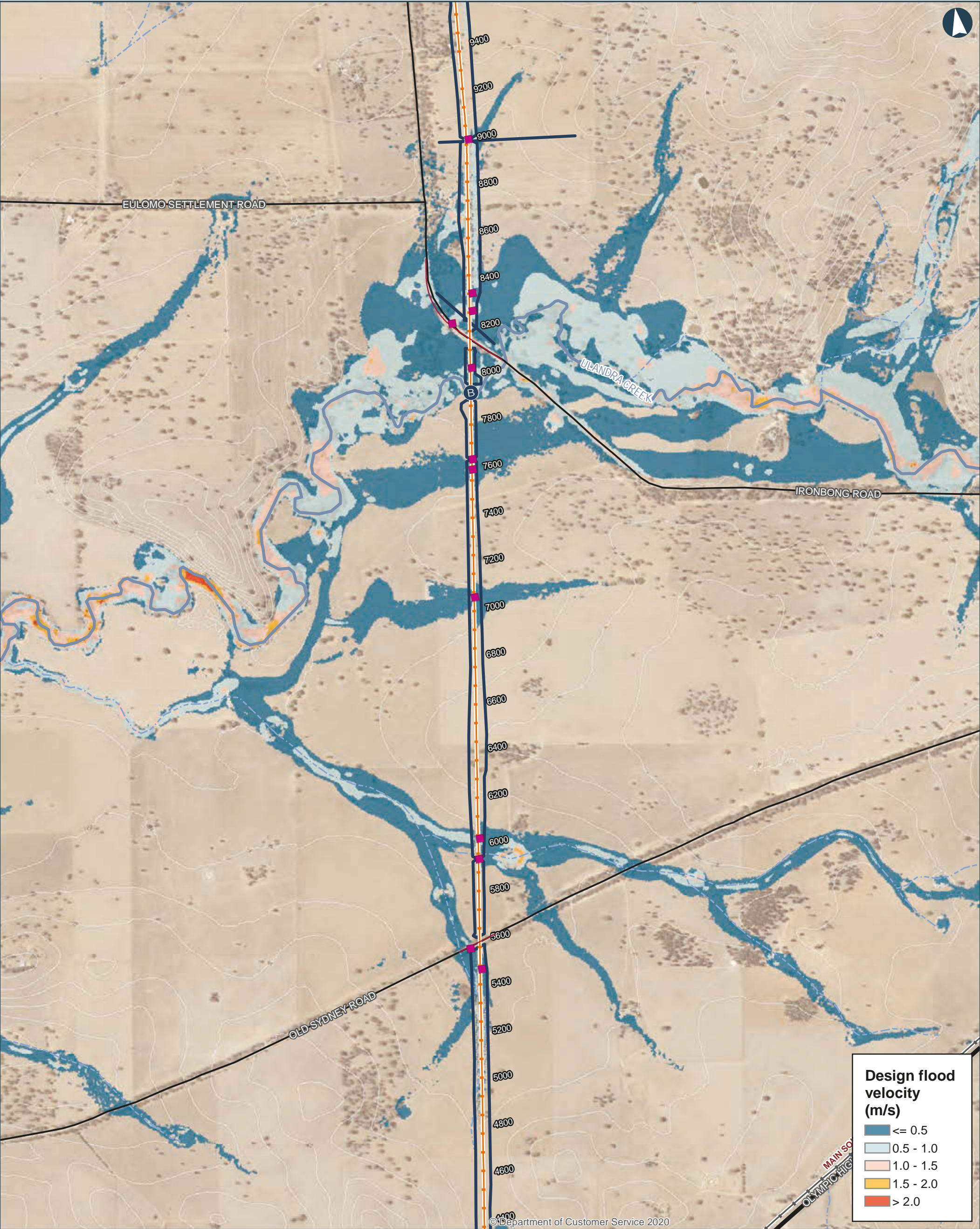
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

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- Major watercourse (Strahler SO 4-6)
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- Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

--- Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

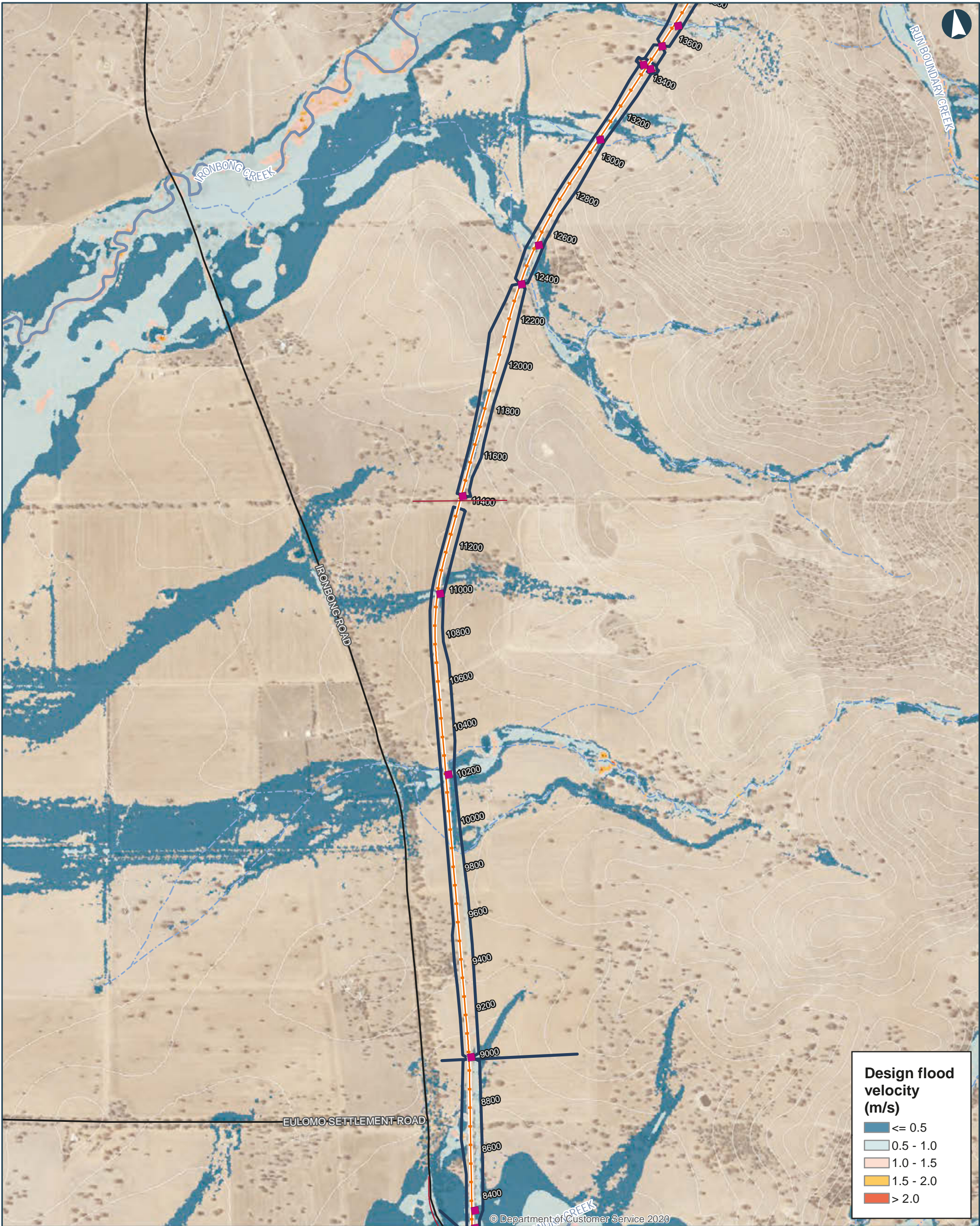
— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

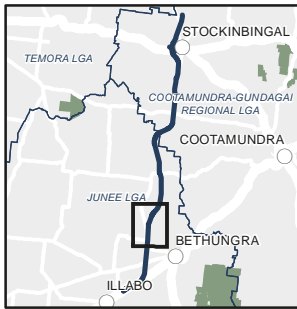
Map 3 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55
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ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

Map 4 of 9

0 200 400 Metres

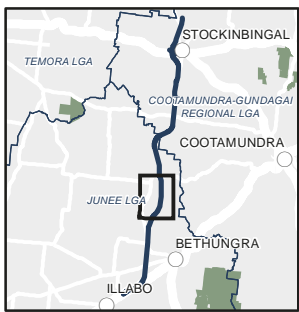
Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

Map 5 of 9

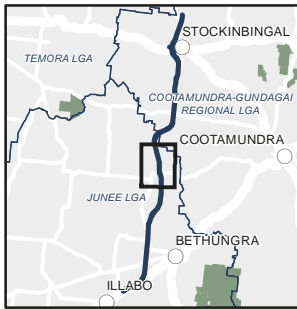
0 200 400
Metres

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Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
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- Local road
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- Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

Map 6 of 9

0 200 400 Metres

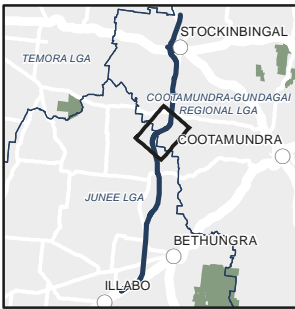
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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

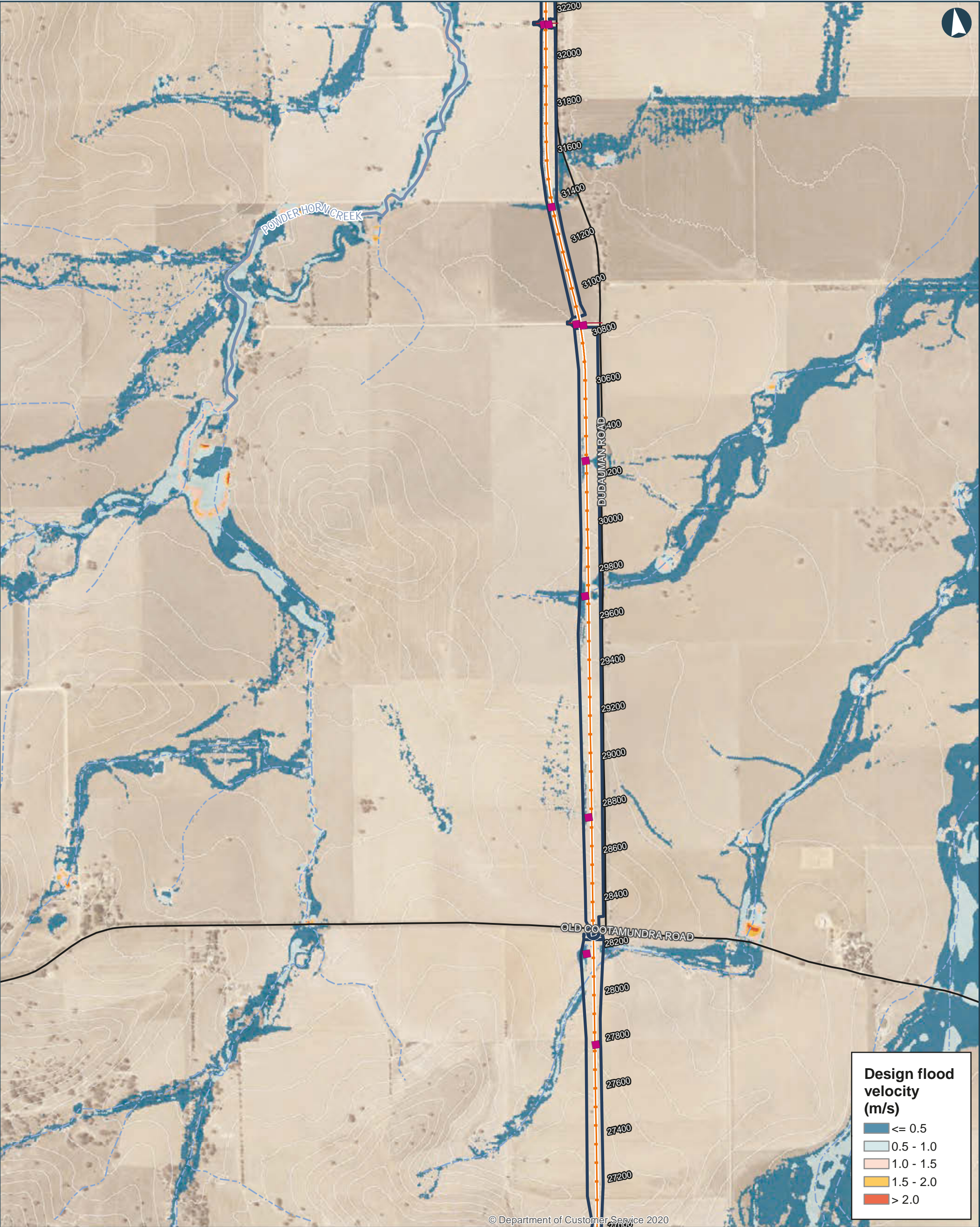
Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINAL 1% AEP Flood Design Velocity

Map 7 of 9

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

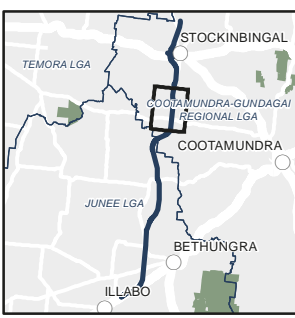
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

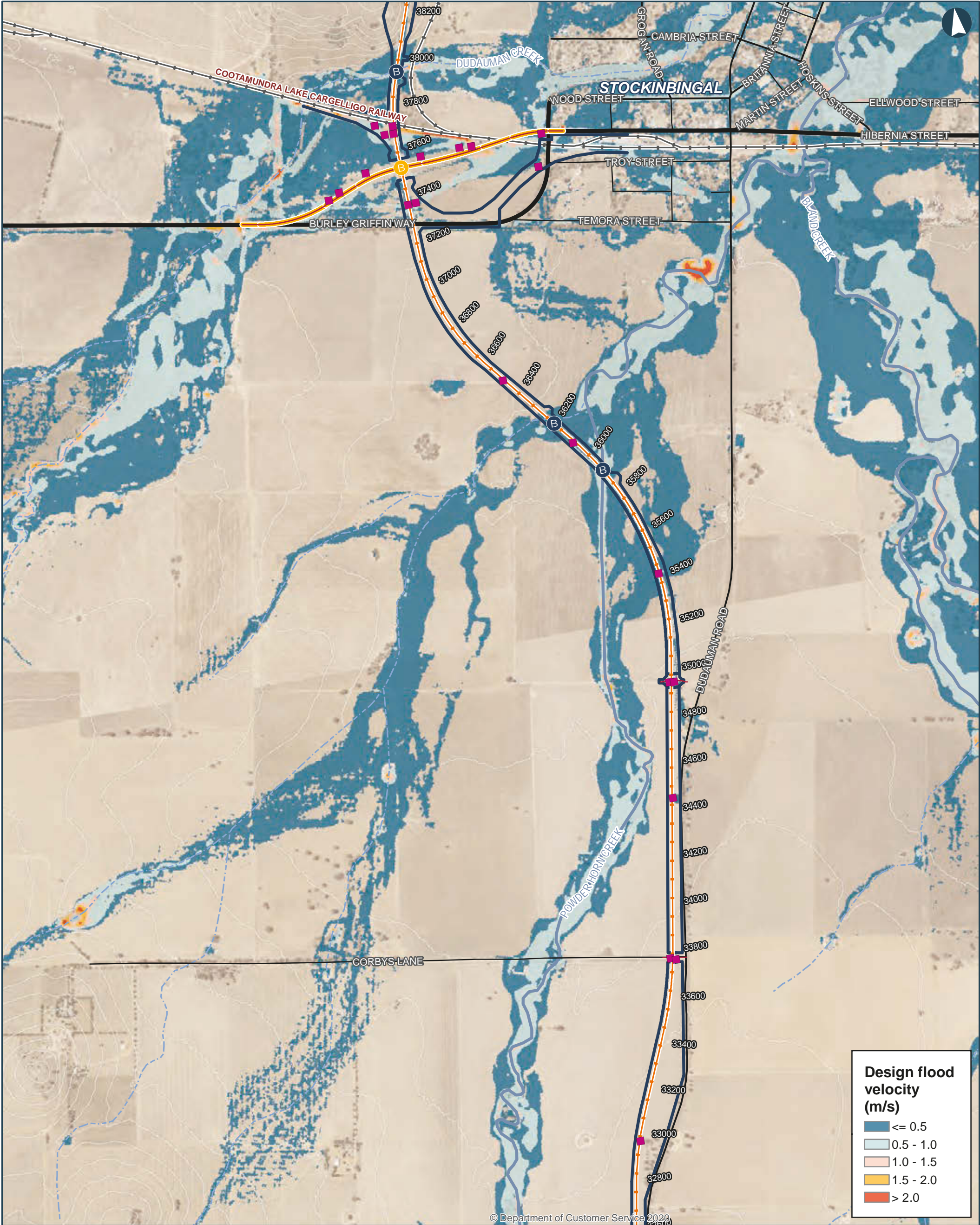
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

Map 8 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

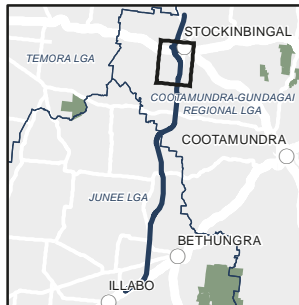
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Data Sources: IRDJV, ARTC, LPI

- Proposal site
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- New track/track upgrade
- Burley Griffin Way Realignment
- Overbridge

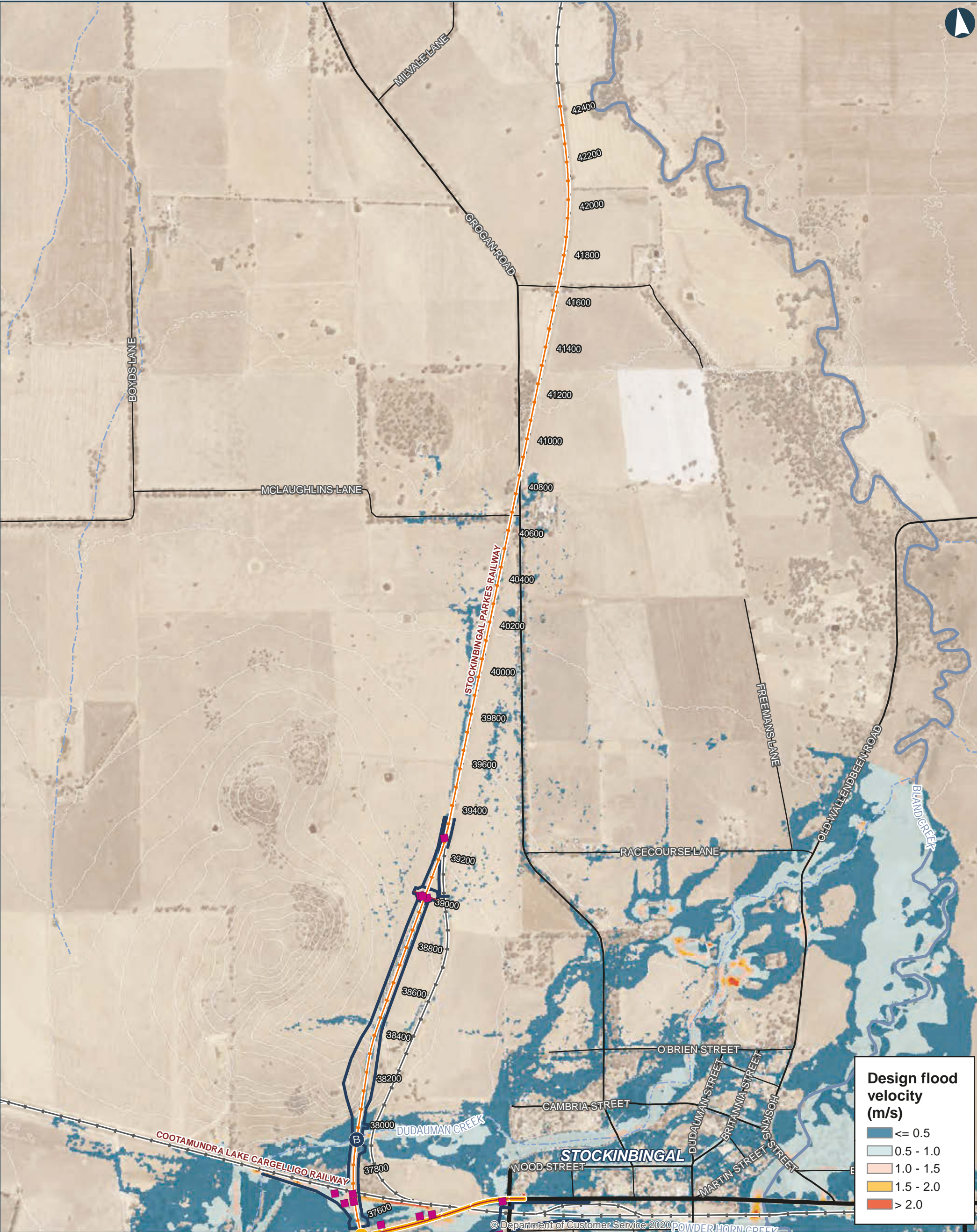
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
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ILLABO TO STOCKINBINGAL 1% AEP Flood Design Velocity

0 200 400 Metres

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Flood Design Velocity

0 200 400 Metres

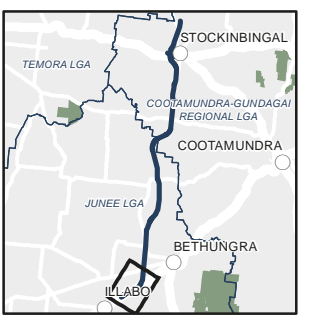
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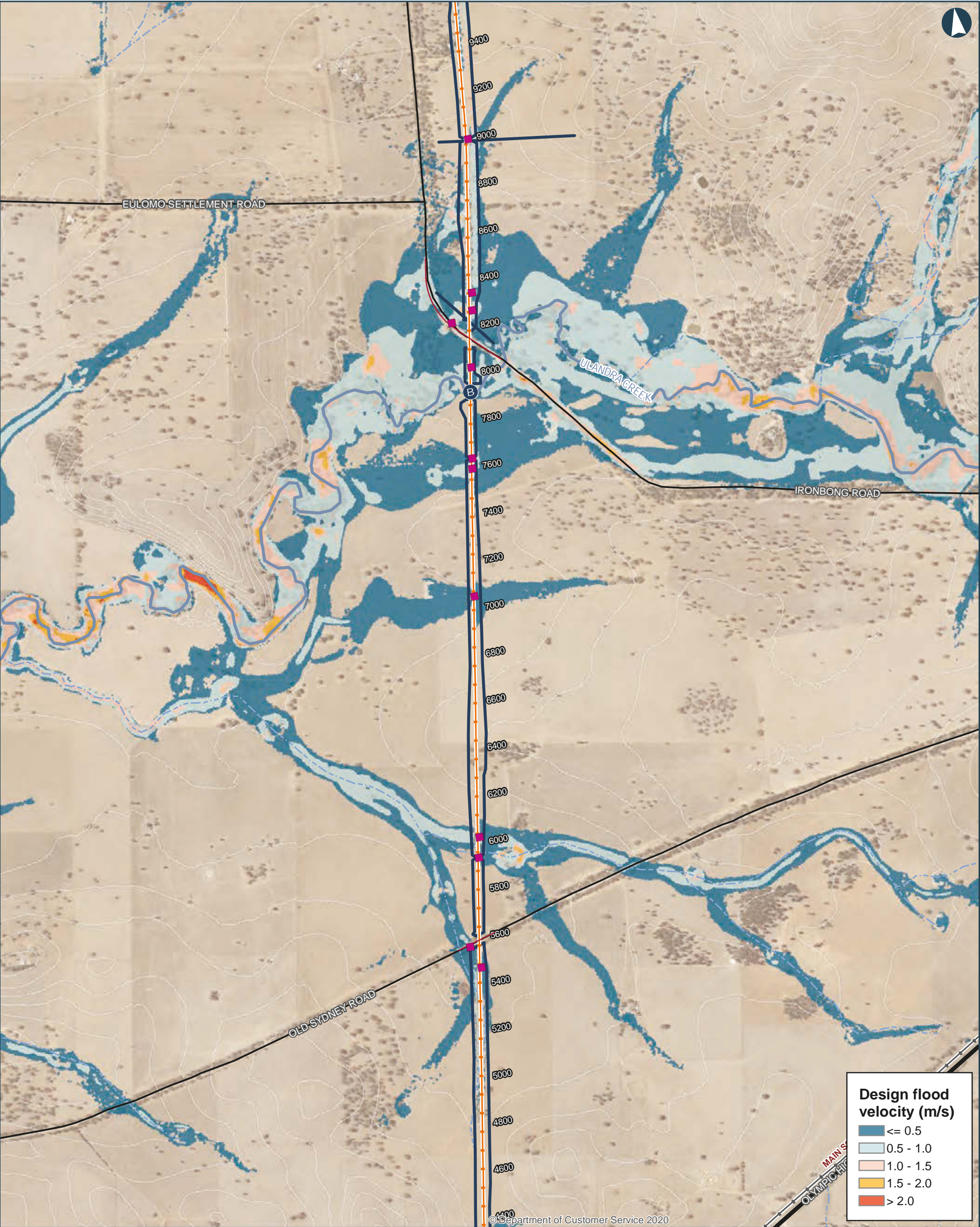
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— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

ⓘ Overbridge

ⓑ Underbridge

■ Culvert

— 5m Contours

— Existing Rail

- - - Minor watercourse (Strahler SO 1-3)

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Flood Design Velocity

0200400Metres

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— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

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B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

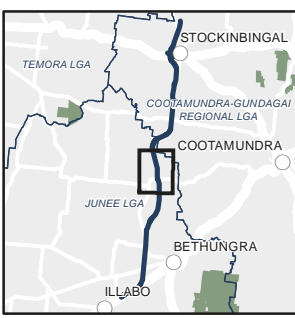
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— Arterial road



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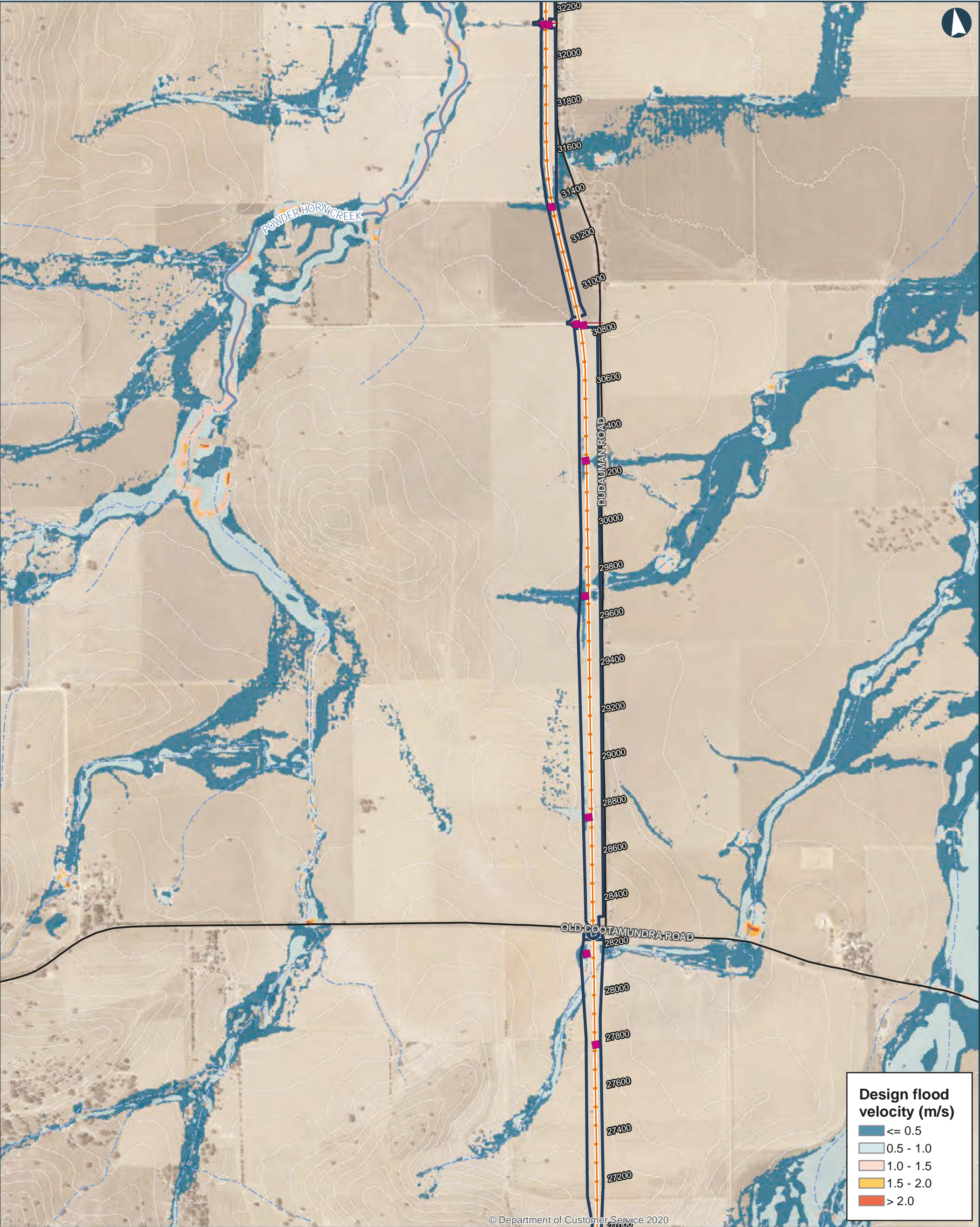
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— 5m Contours

— Existing Rail

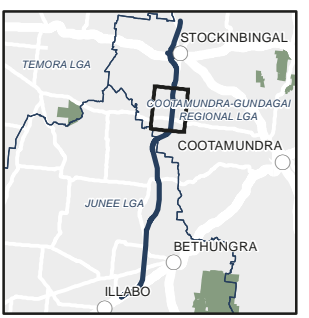
— Minor watercourse (Strahler SO 1-3)

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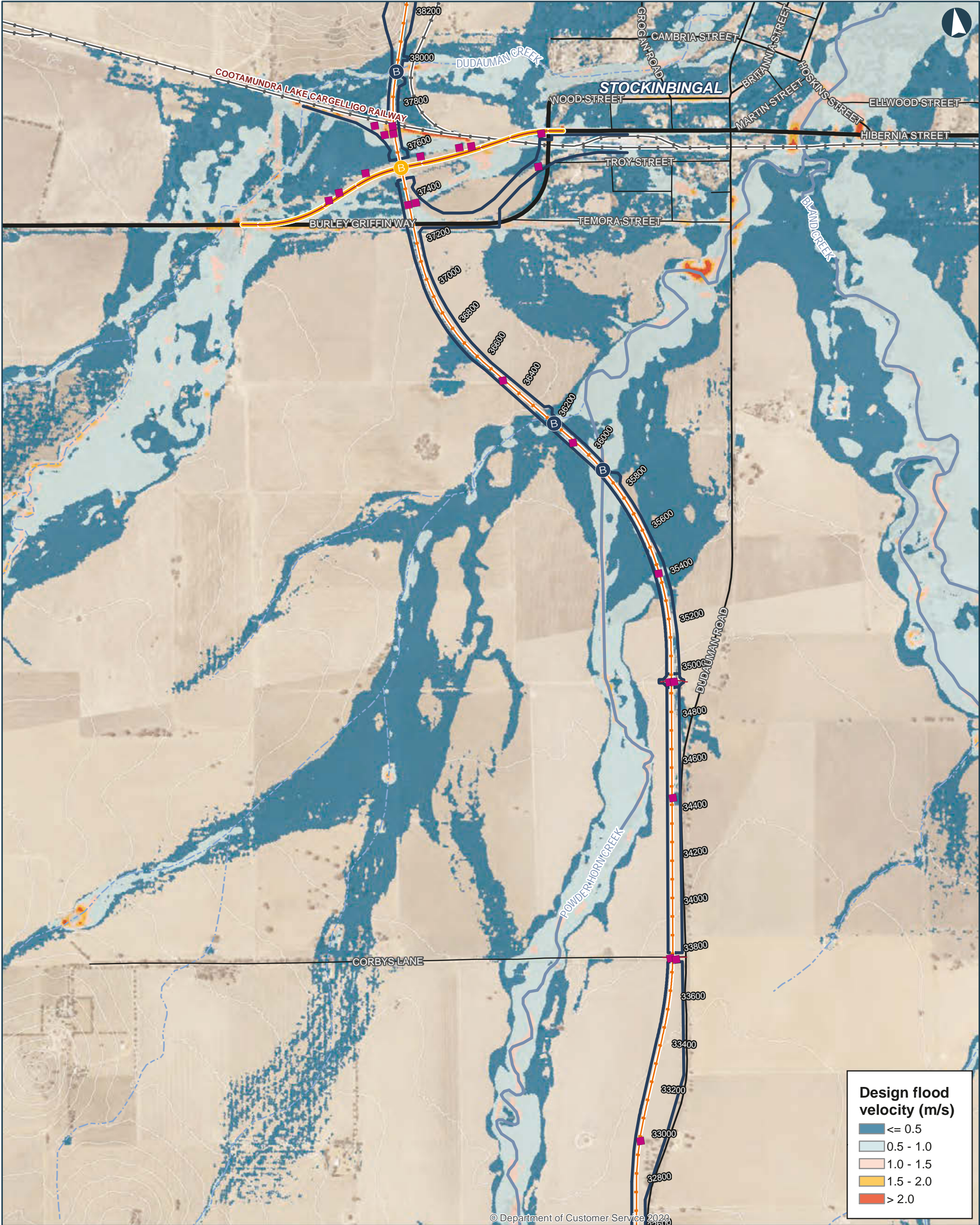
— Local road

— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Flood Design Velocity

Map 8 of 9

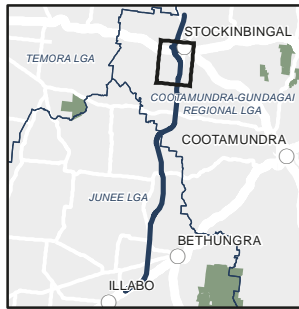
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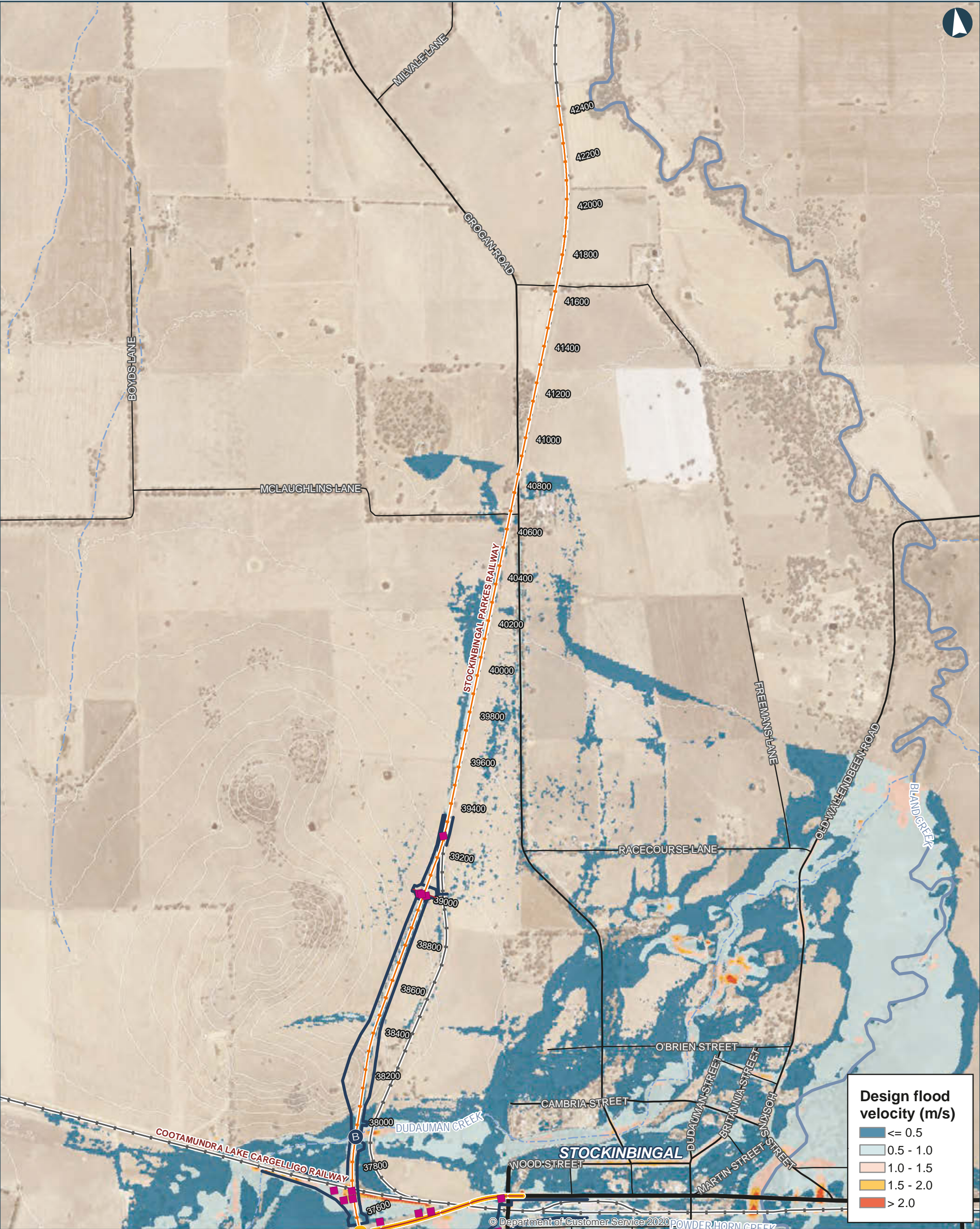
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
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- New track/track upgrade
- Burley Griffin Way Realignment
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 1% AEP Climate Change Flood Design Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

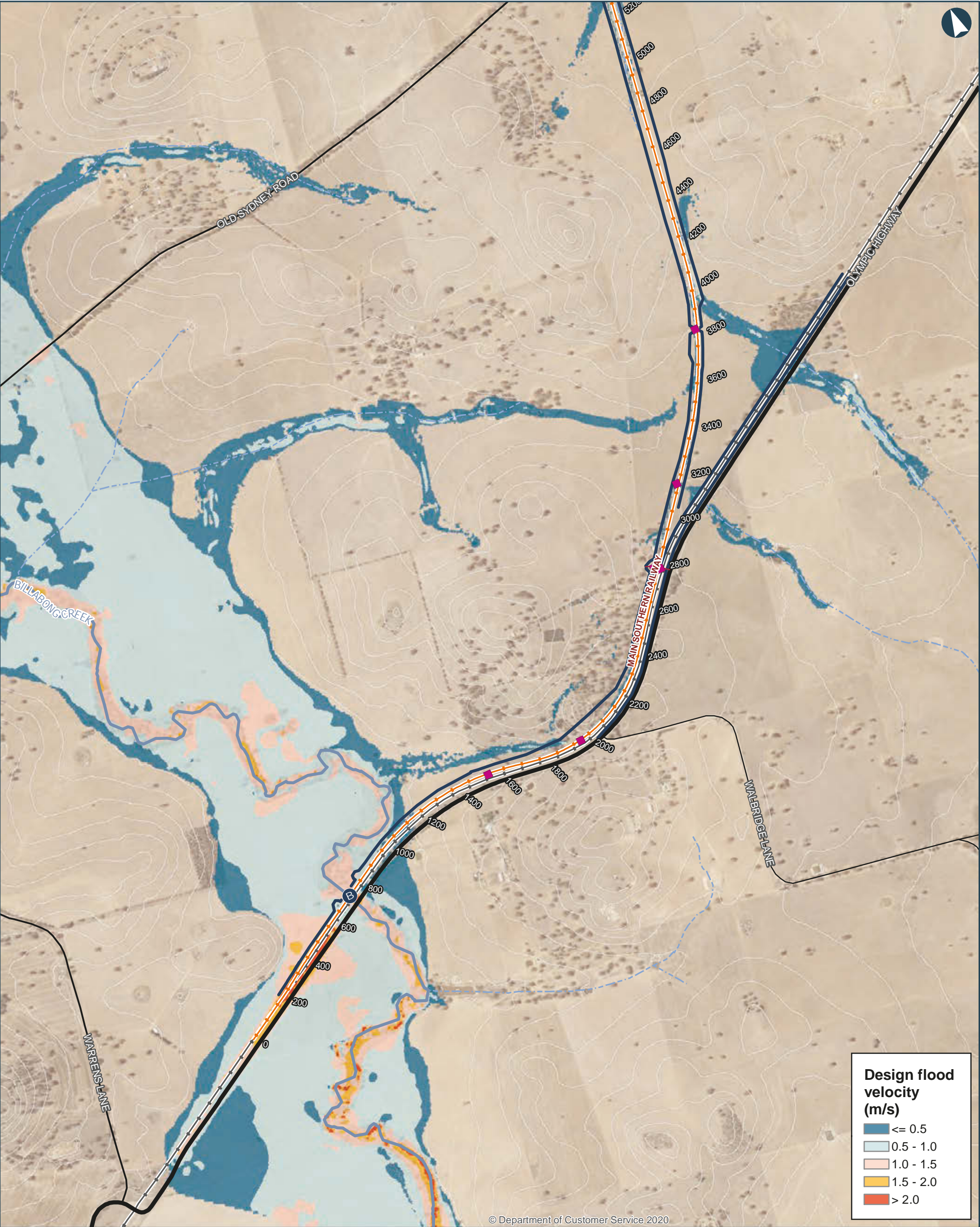
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

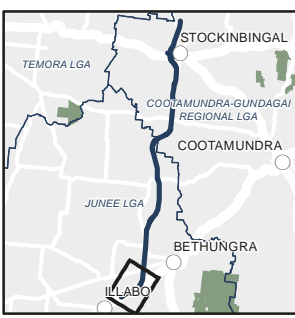
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

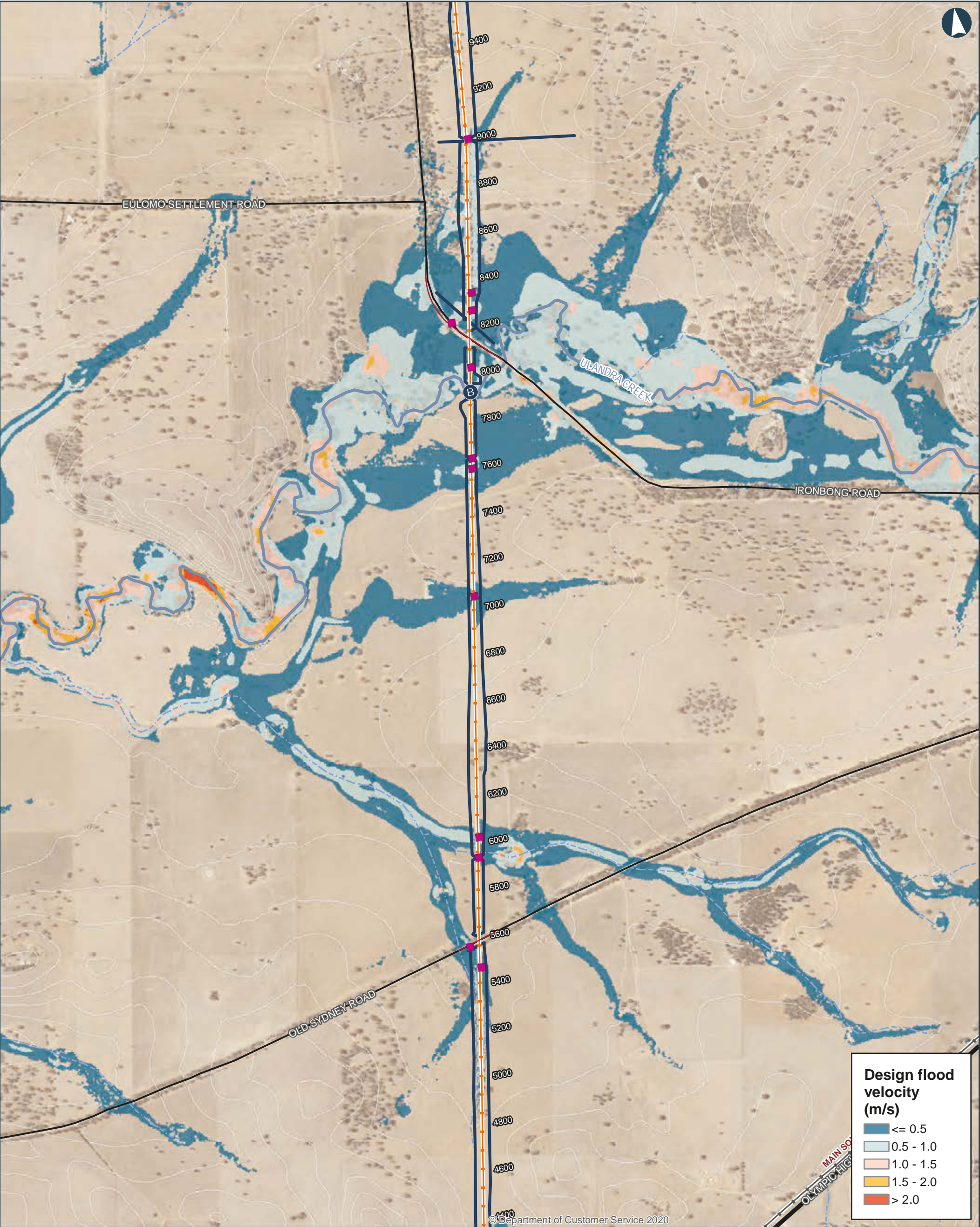
— Local road

— Sub-arterial road

— Arterial road



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

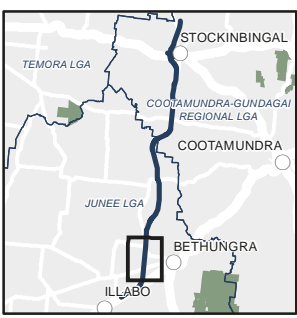
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

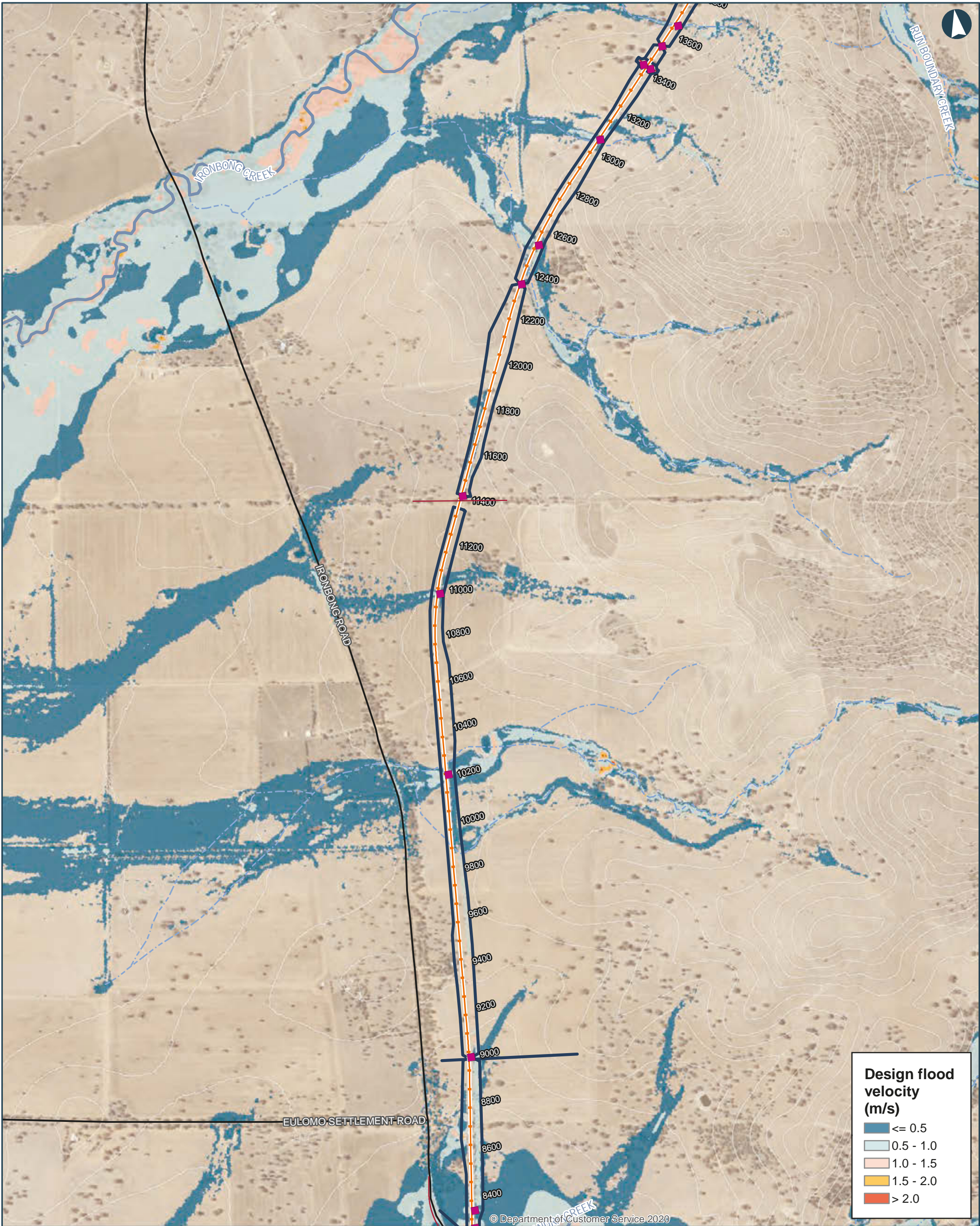
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

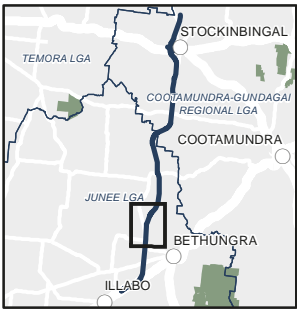
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

Map 4 of 9

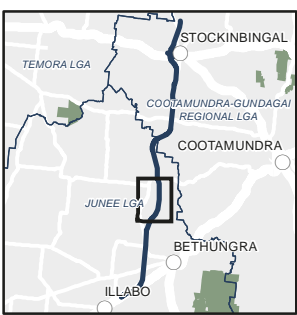
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

— Sub-arterial road

— Arterial road

INLAND RAIL

ARTC

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

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ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

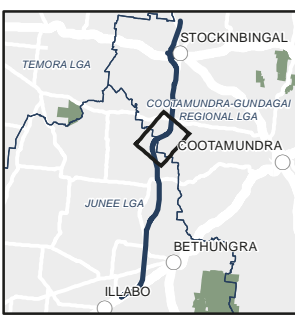
--- Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

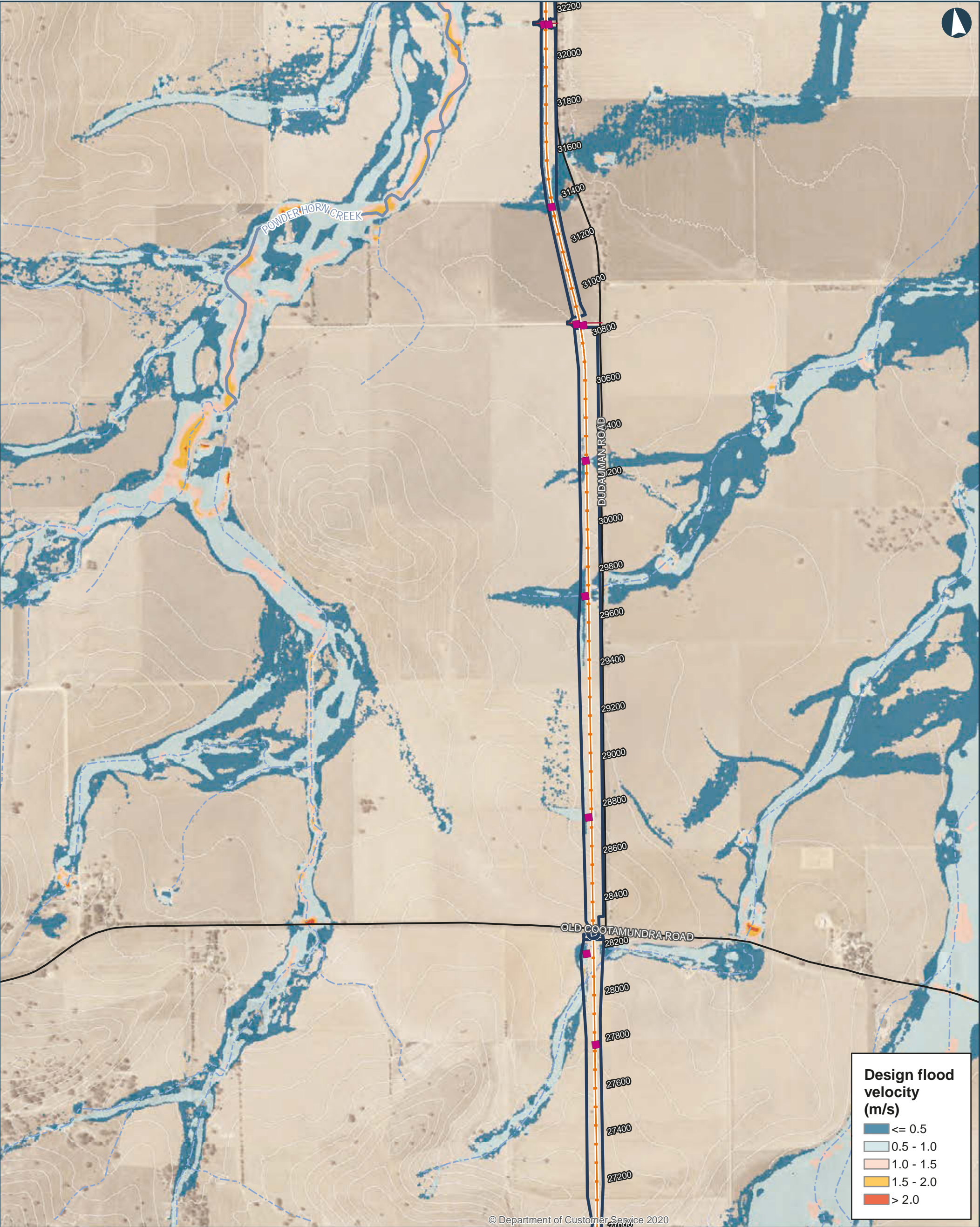
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

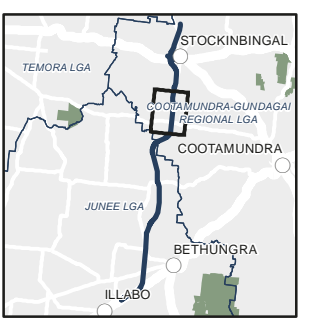
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

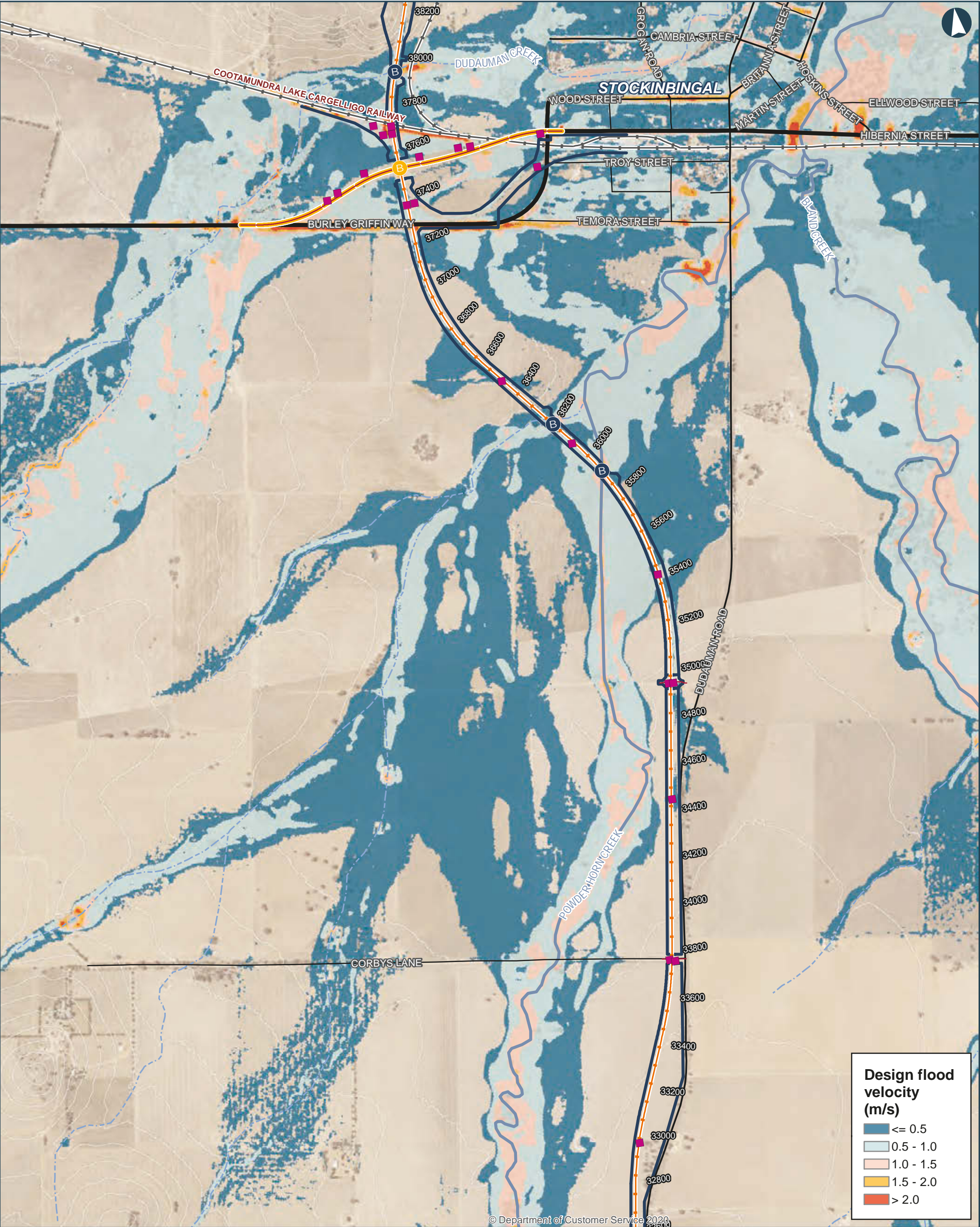
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

B

Culvert

5m Contours

Existing Rail

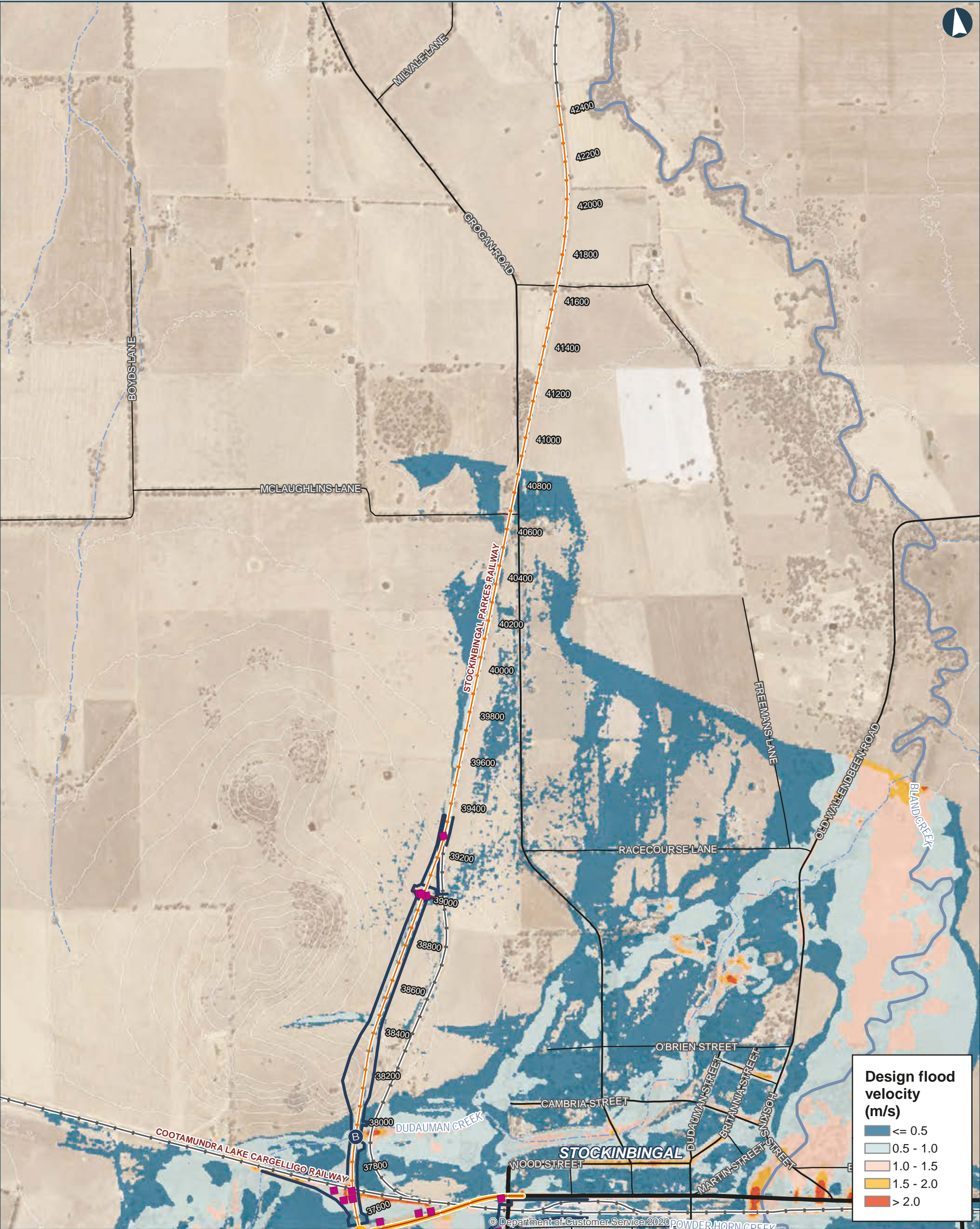
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road



ILLABO TO STOCKINBINGAL 0.05% AEP Flood Design Velocity

0 200 400 Metres

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Burley Griffin Way Realignment

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

— Sub-arterial road

— Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

0 200 400 Metres

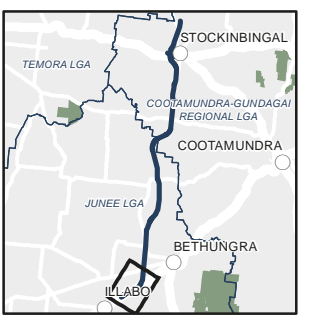
Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

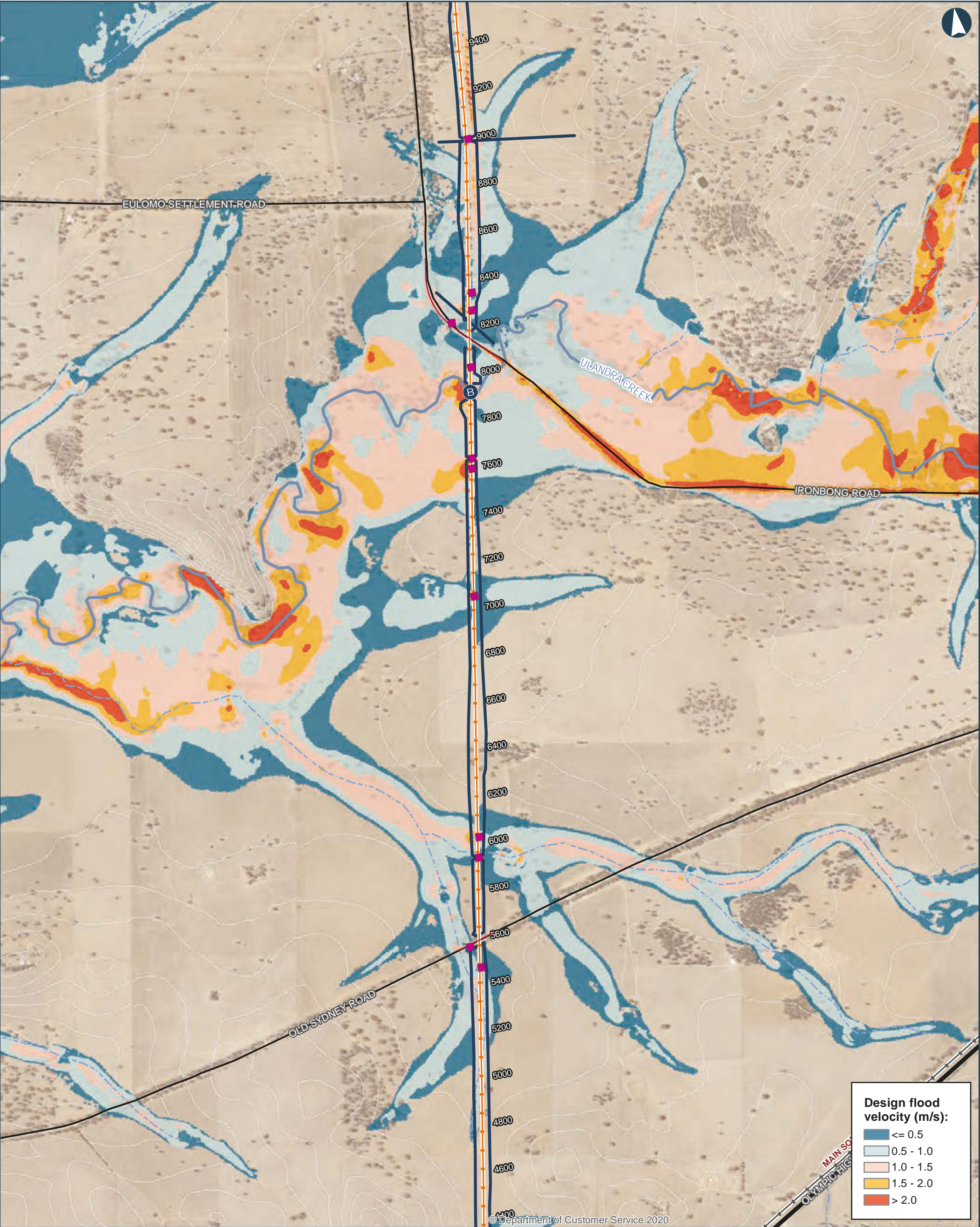
Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

— Sub-arterial road

— Arterial road

INLAND RAIL

ARTC

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G:\Projects\PS108286_L2S\Tasks\220_0118_HYD_HydrologyReportResubmissionMay22\Documents\PMF\220_0118_HYD_PMFDesignVelocity_v2.mxd



ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

—

Proposal site

—

5m Contours

40950

Chainage (distance in metres from southern limit of the proposal)

—

Existing Rail

—

New track/track upgrade

Minor watercourse (Strahler SO 1-3)

B

Overbridge

Major watercourse (Strahler SO 4-6)

B

Underbridge

—

Local road

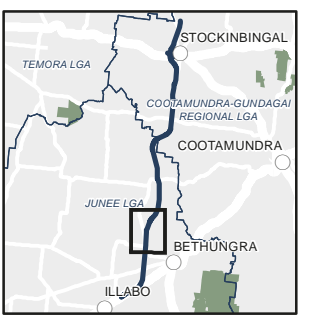
■

Culvert

—

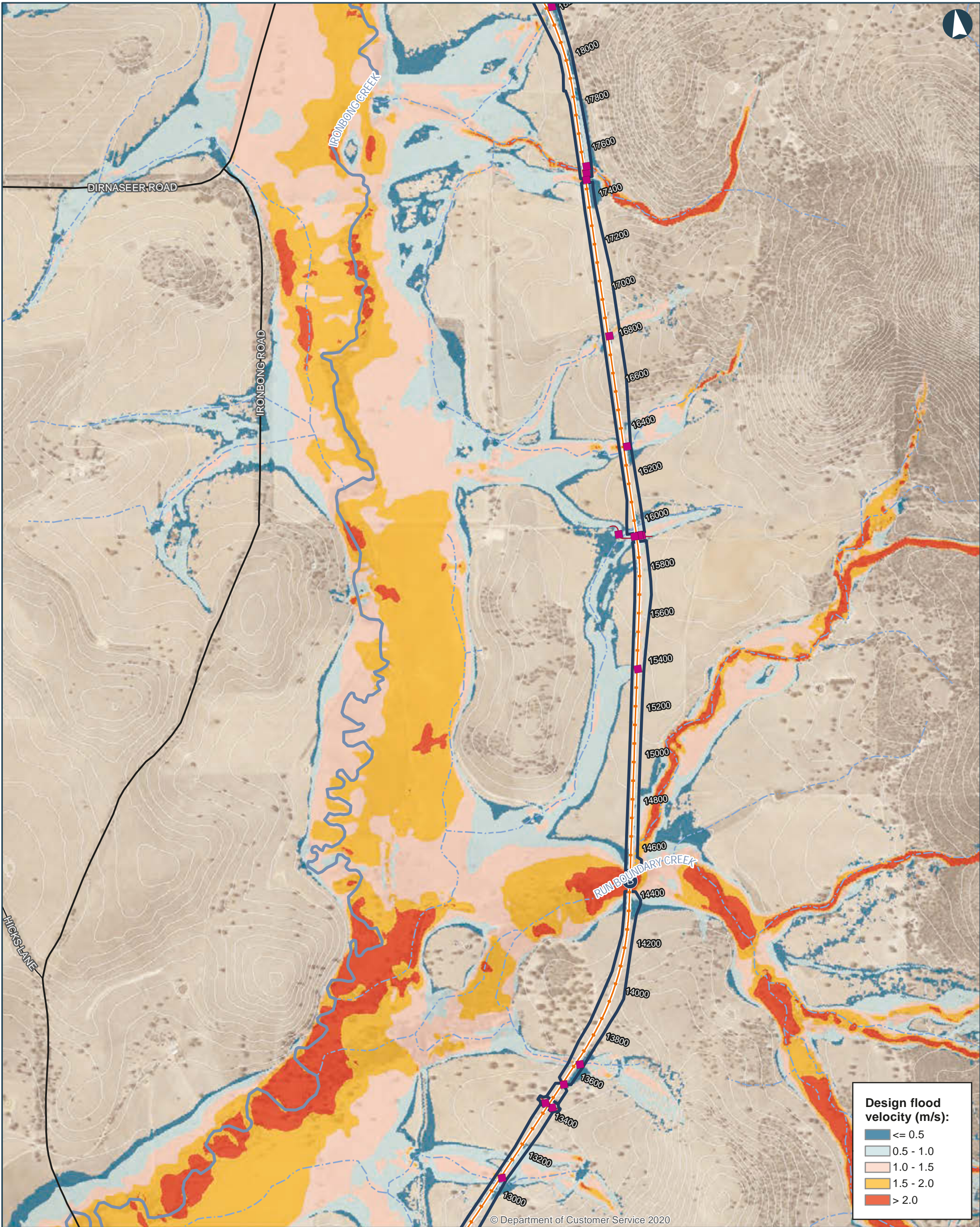
Sub-arterial road

Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

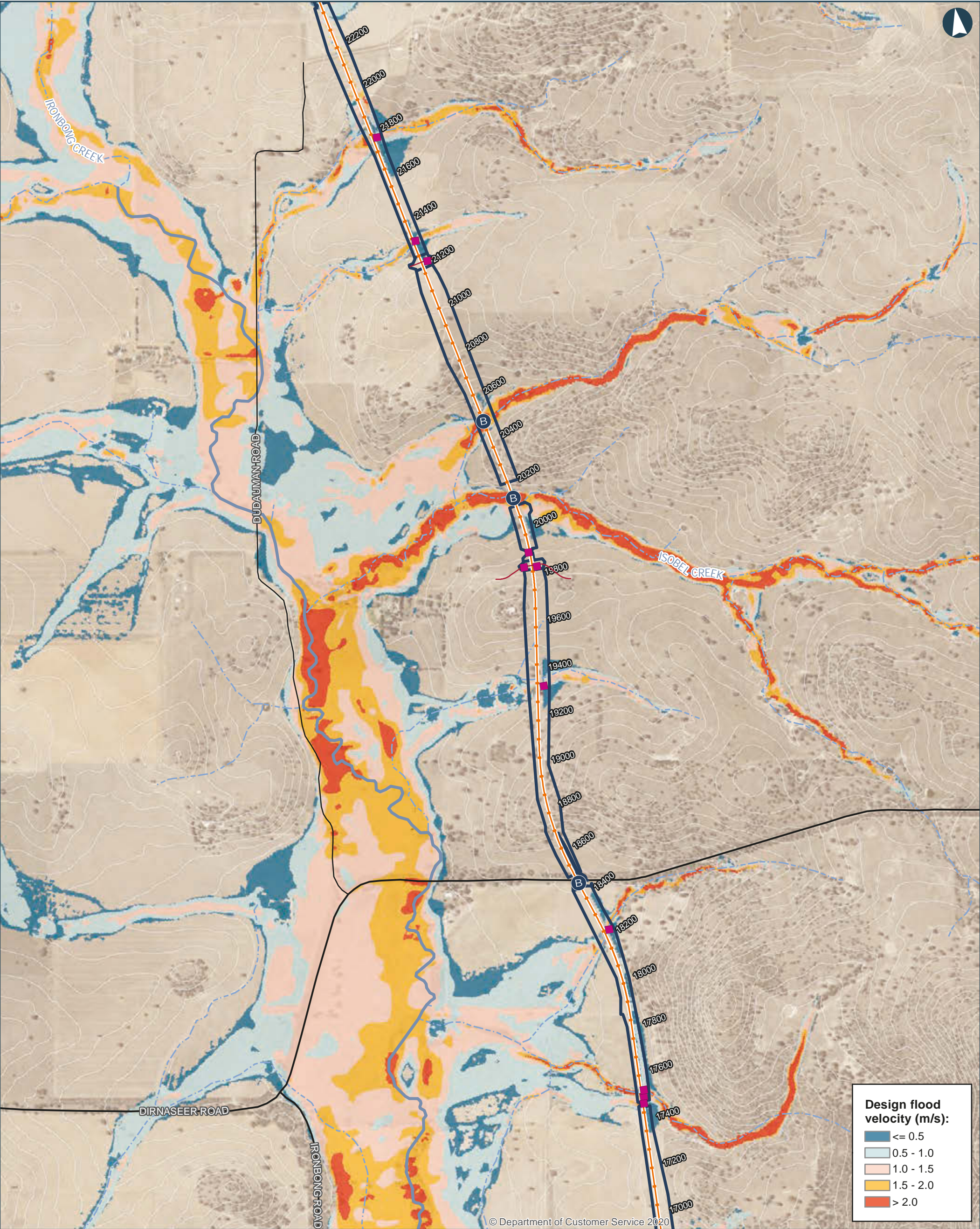
Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert

- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road

INLAND RAIL **ARTC**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

Map 5 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

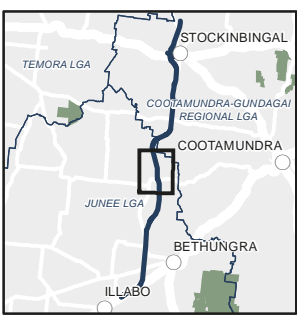
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

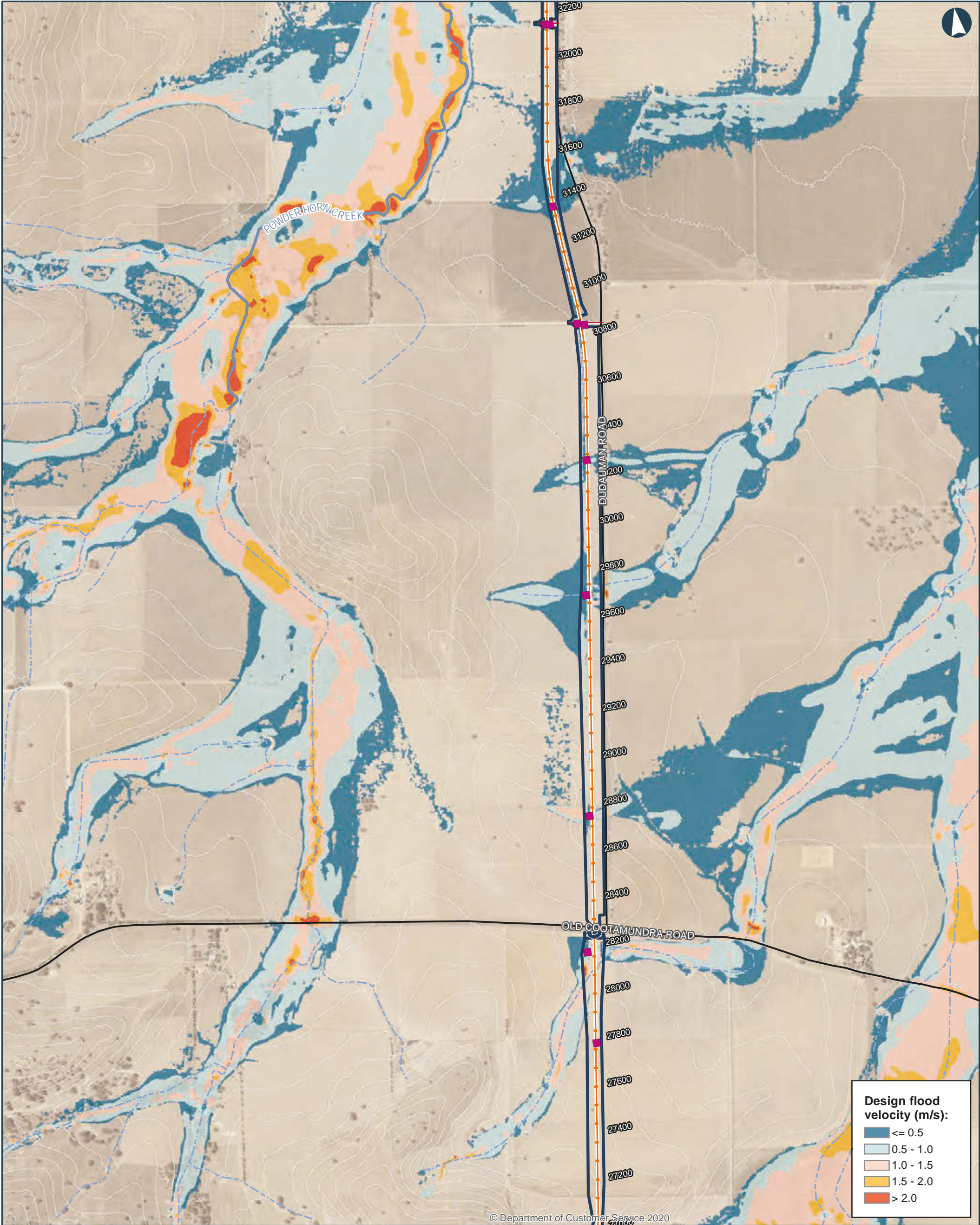
— Local road

— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

0 200 400 Metres

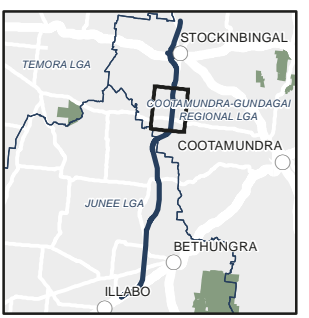
Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

Map 8 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

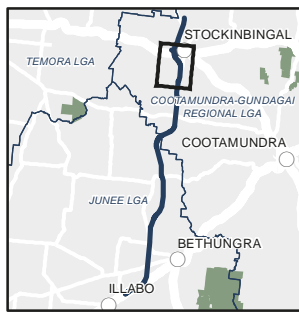
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Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Burley Griffin Way Realignment
- Overbridge

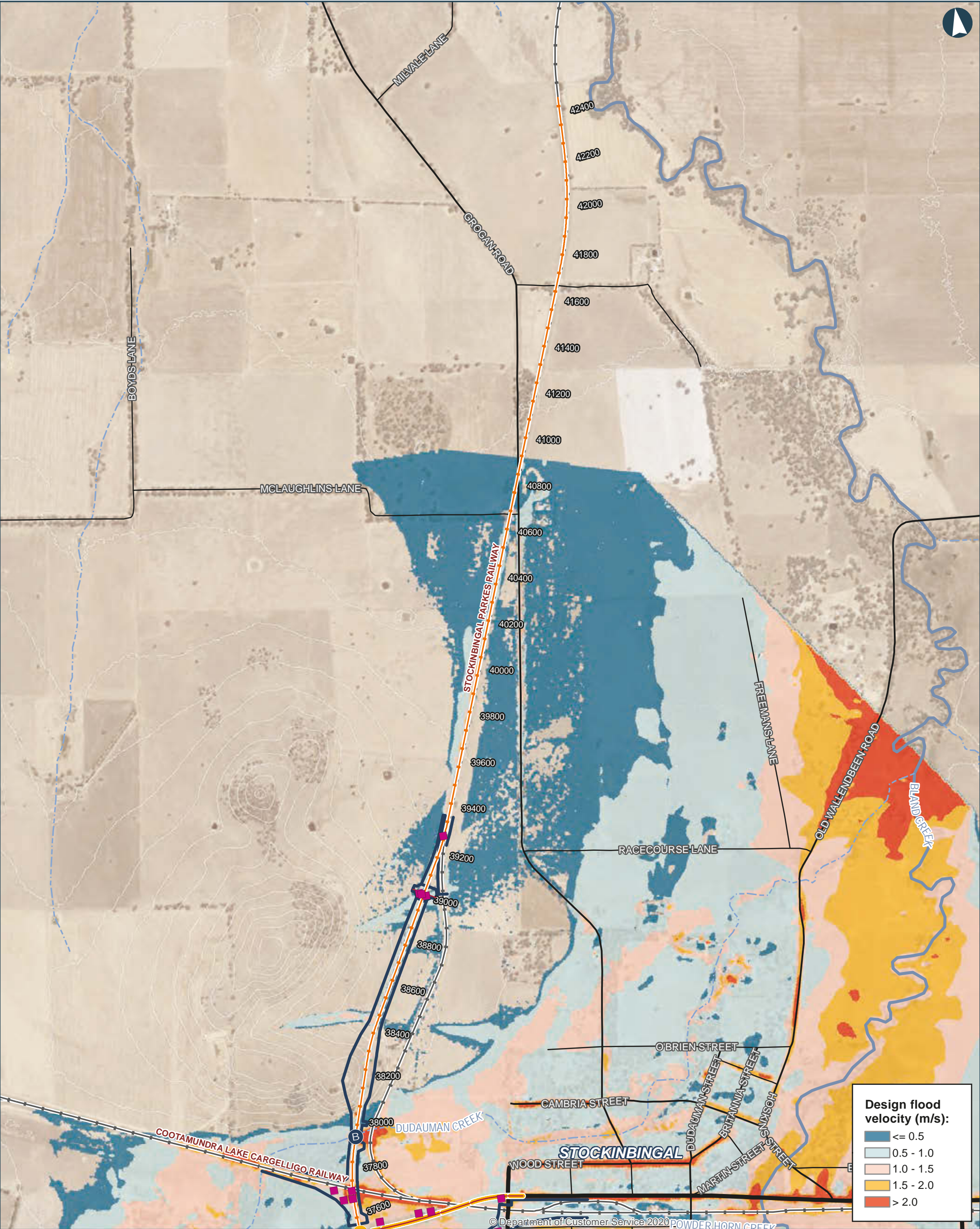
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Design Velocity

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

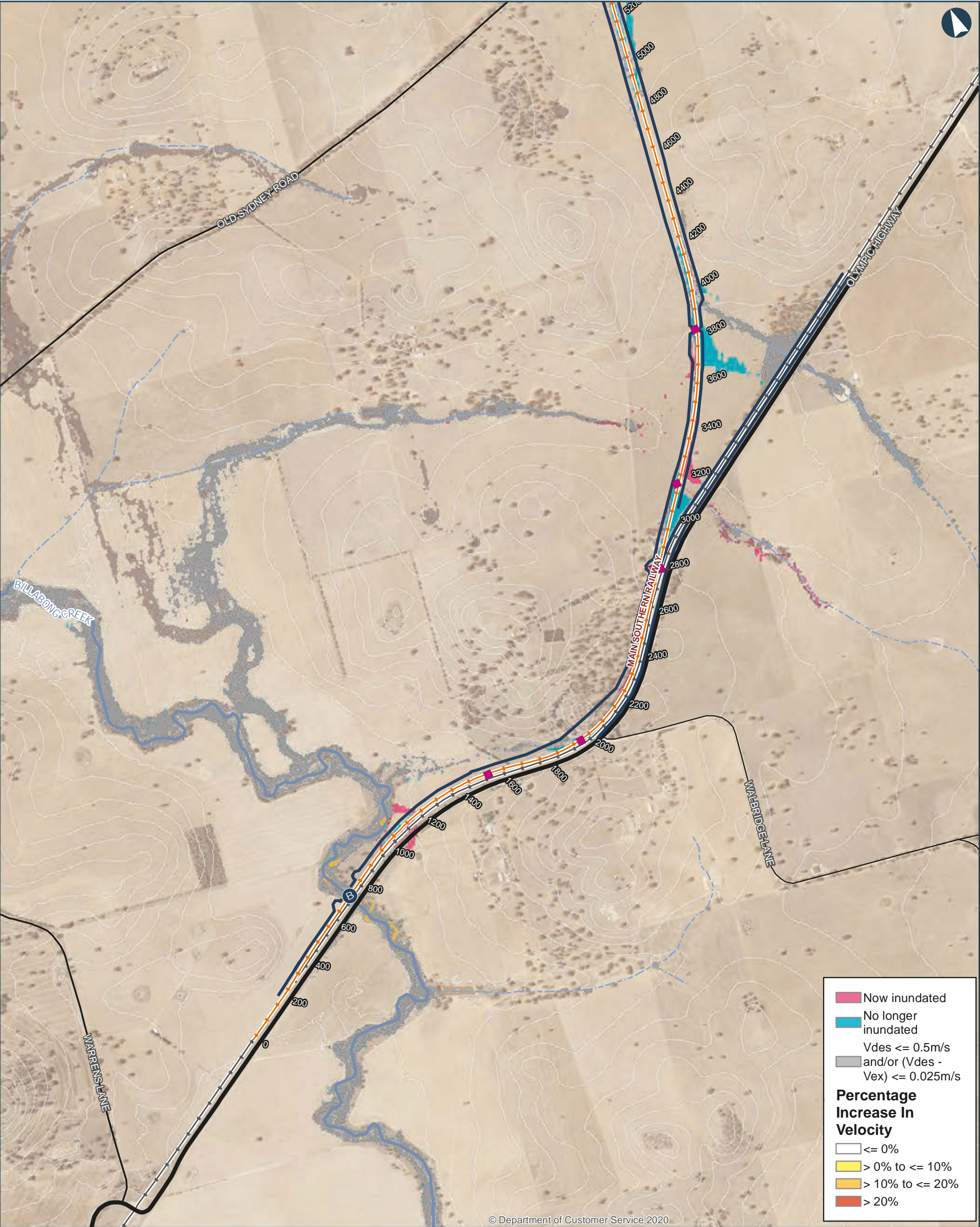
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

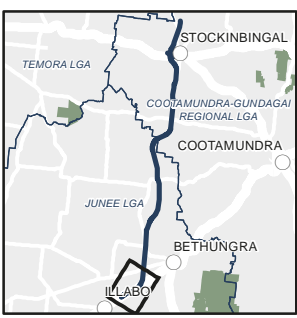
Coordinate System: GDA 1994 MGA Zone 55

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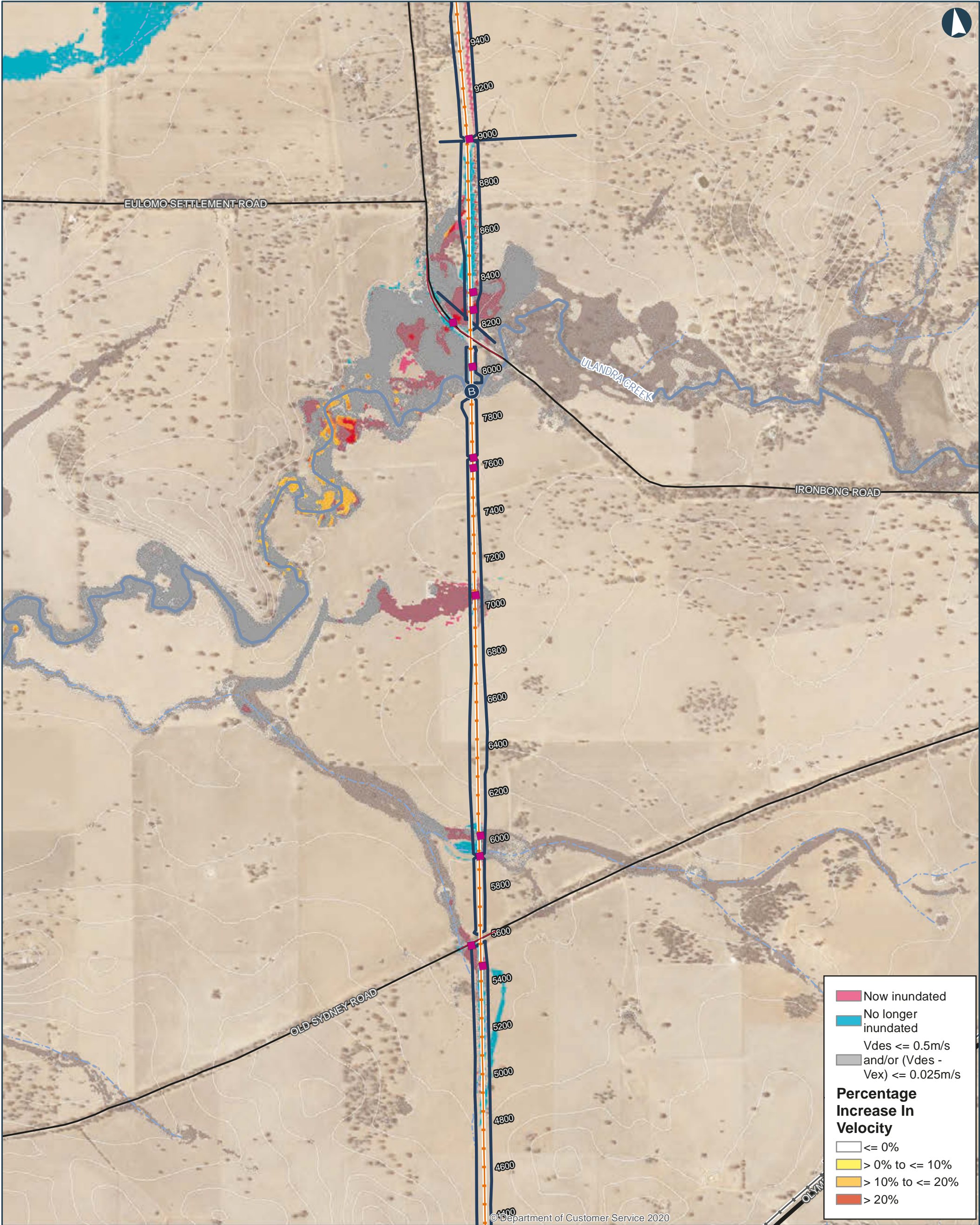
Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

0 200 400 Metres

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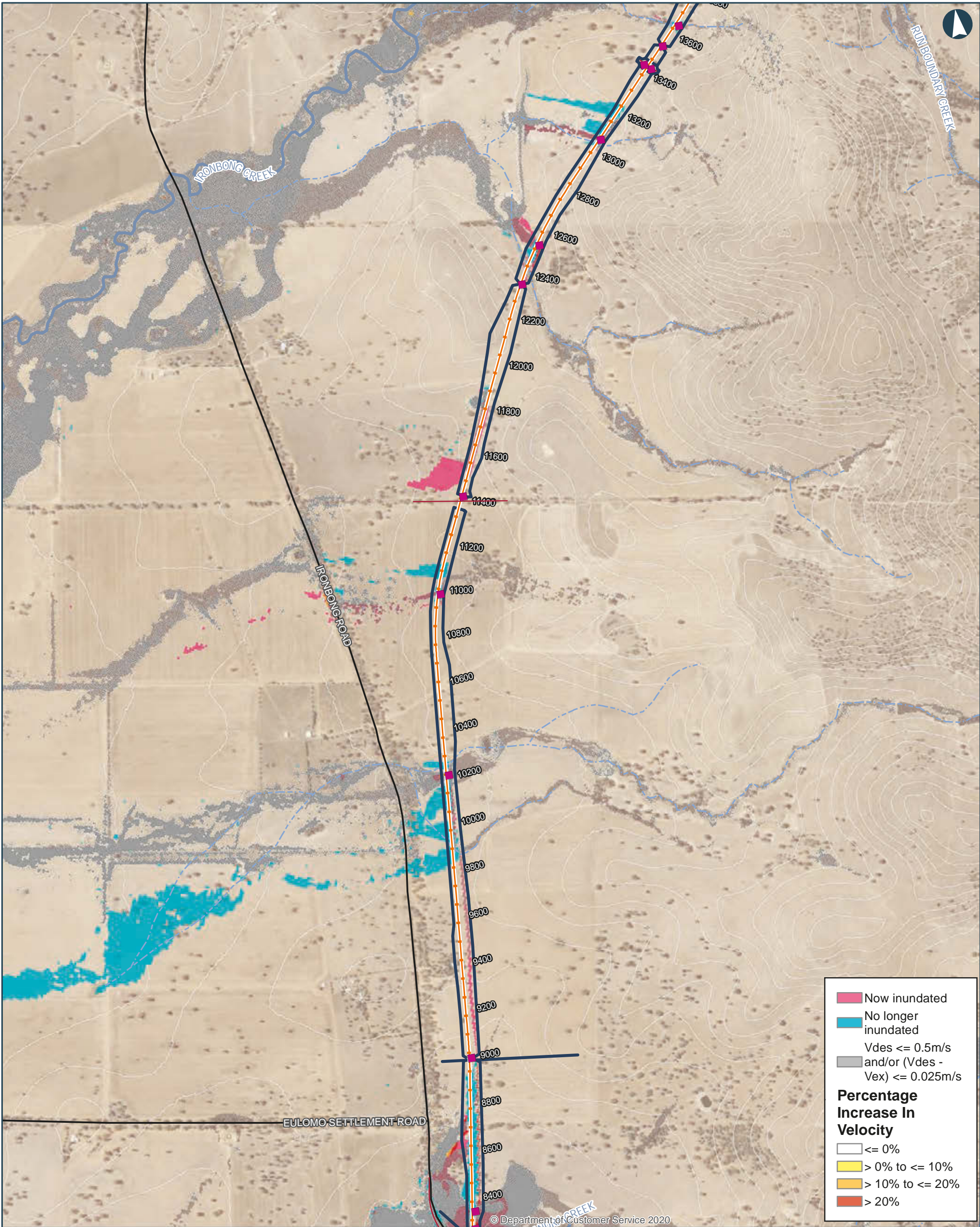
Paper: A3
Scale: 1:15,000

Legend:

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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

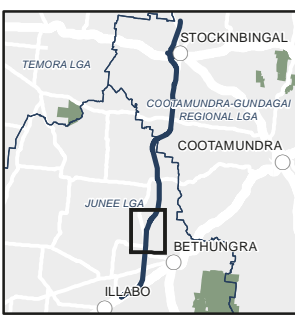
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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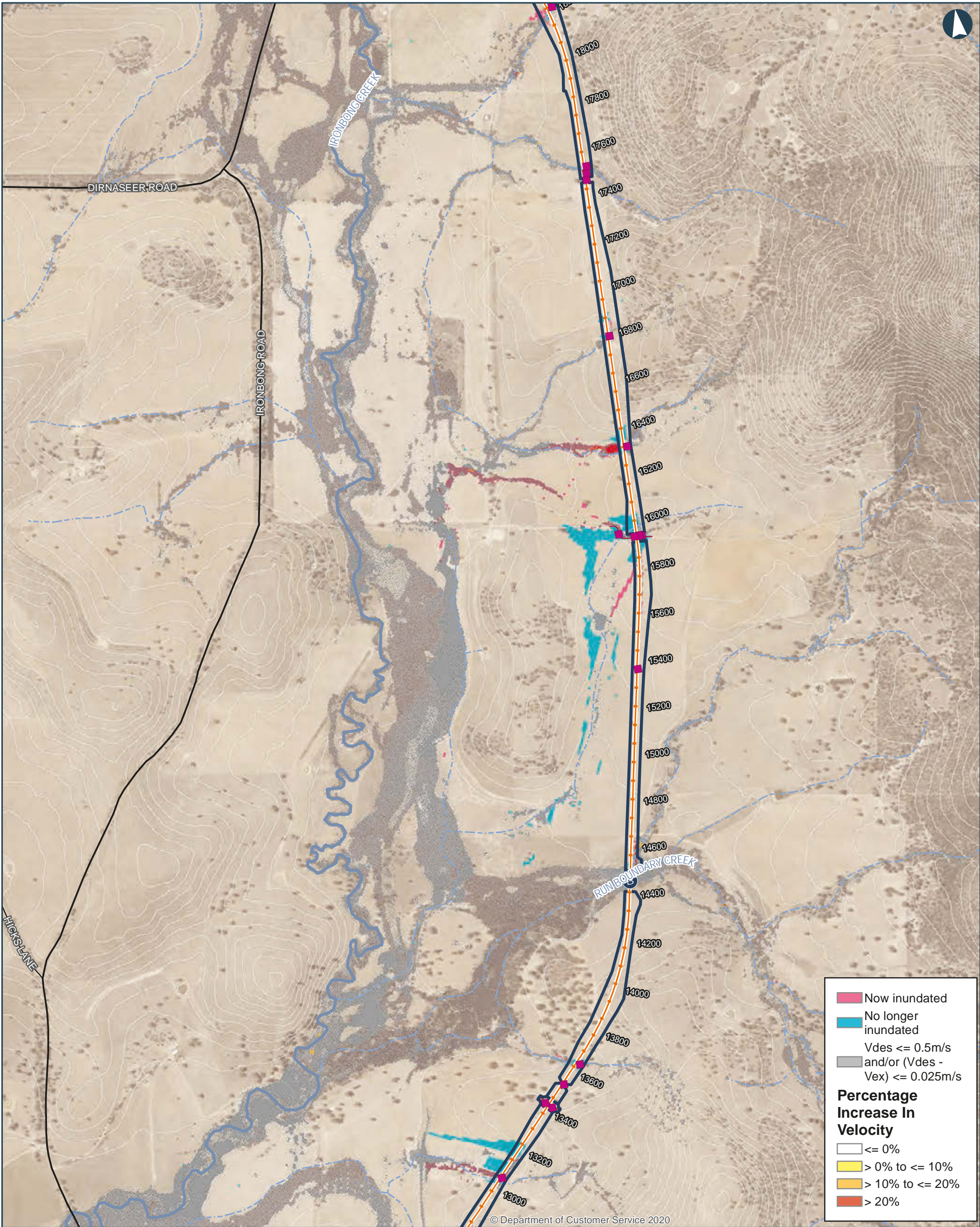
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

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INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 4 of 9

0 200 400 Metres

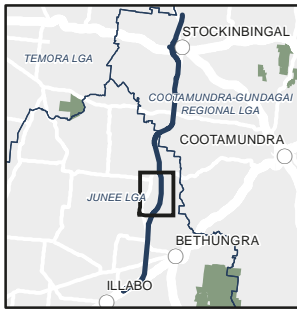
Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

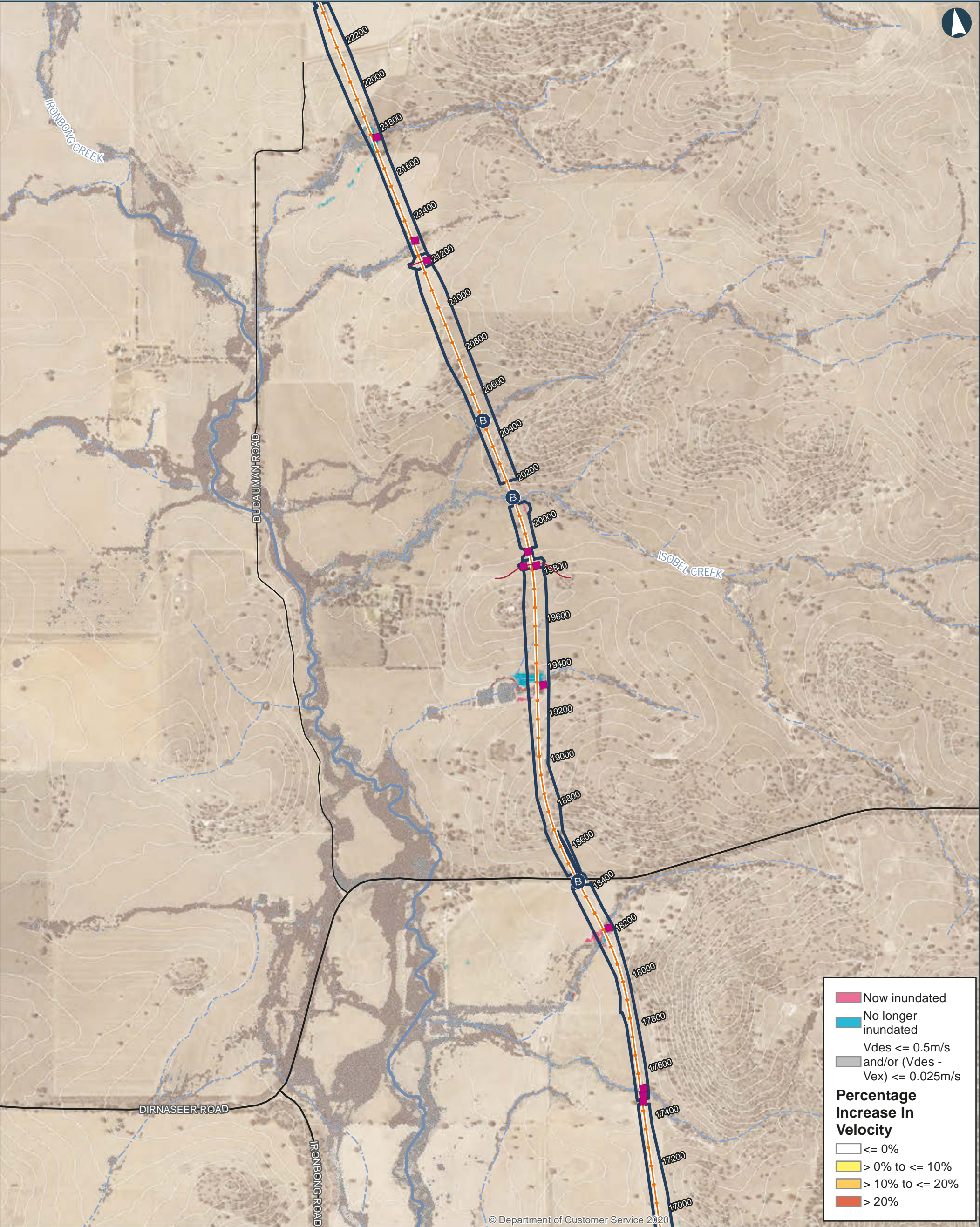
Paper: A3
Scale: 1:15,000

- Proposal site
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- Overbridge
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- Culvert
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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

0 200 400 Metres

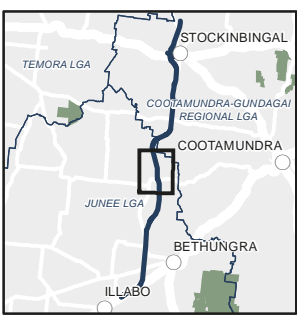
Coordinate System: GDA 1994 MGA Zone 55

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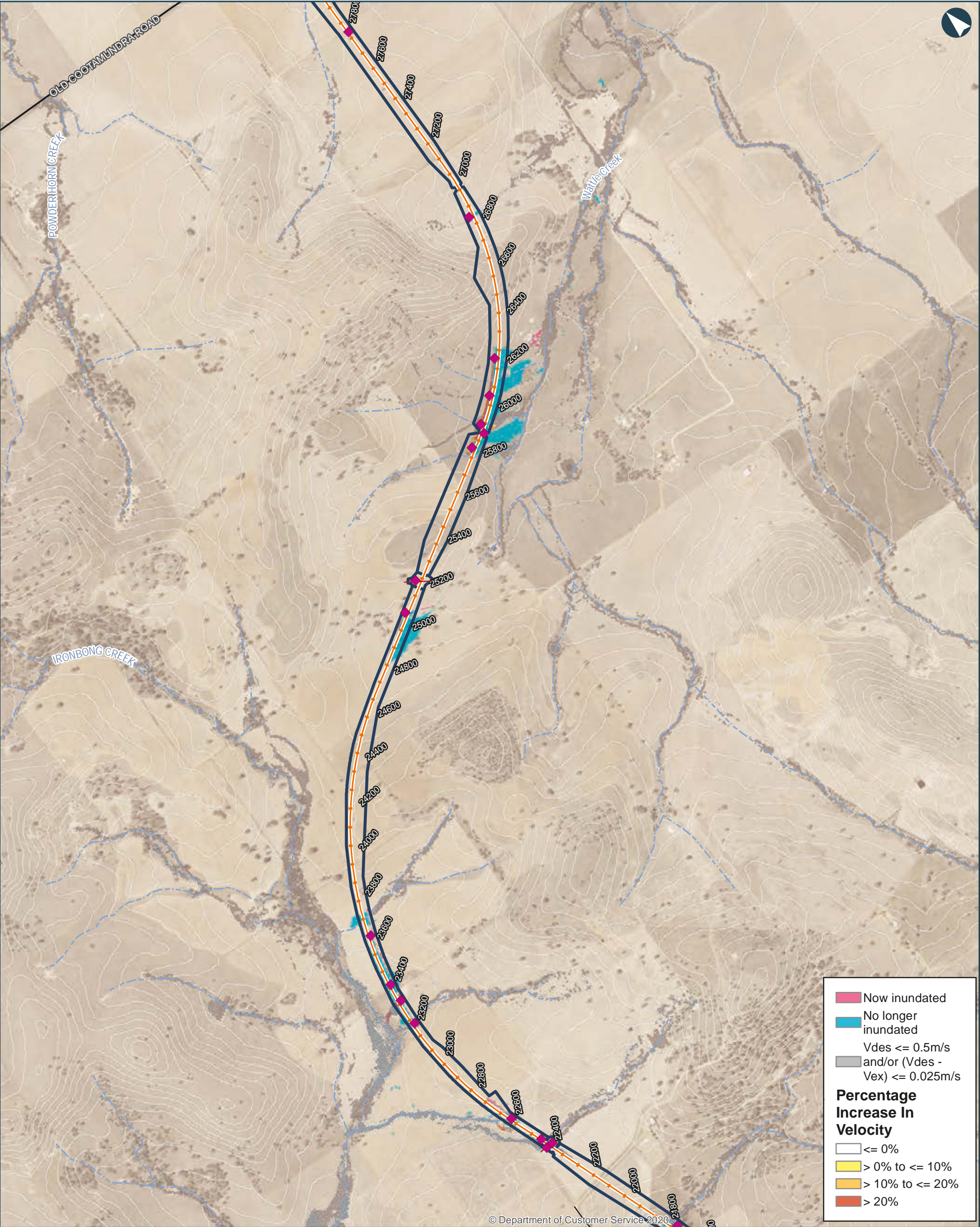
Paper: A3
Scale: 1:15,000

- Proposal site
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ILLABO TO STOCKINBINAL 0.2EY Percentage Change in Velocity

0 200 400 Metres

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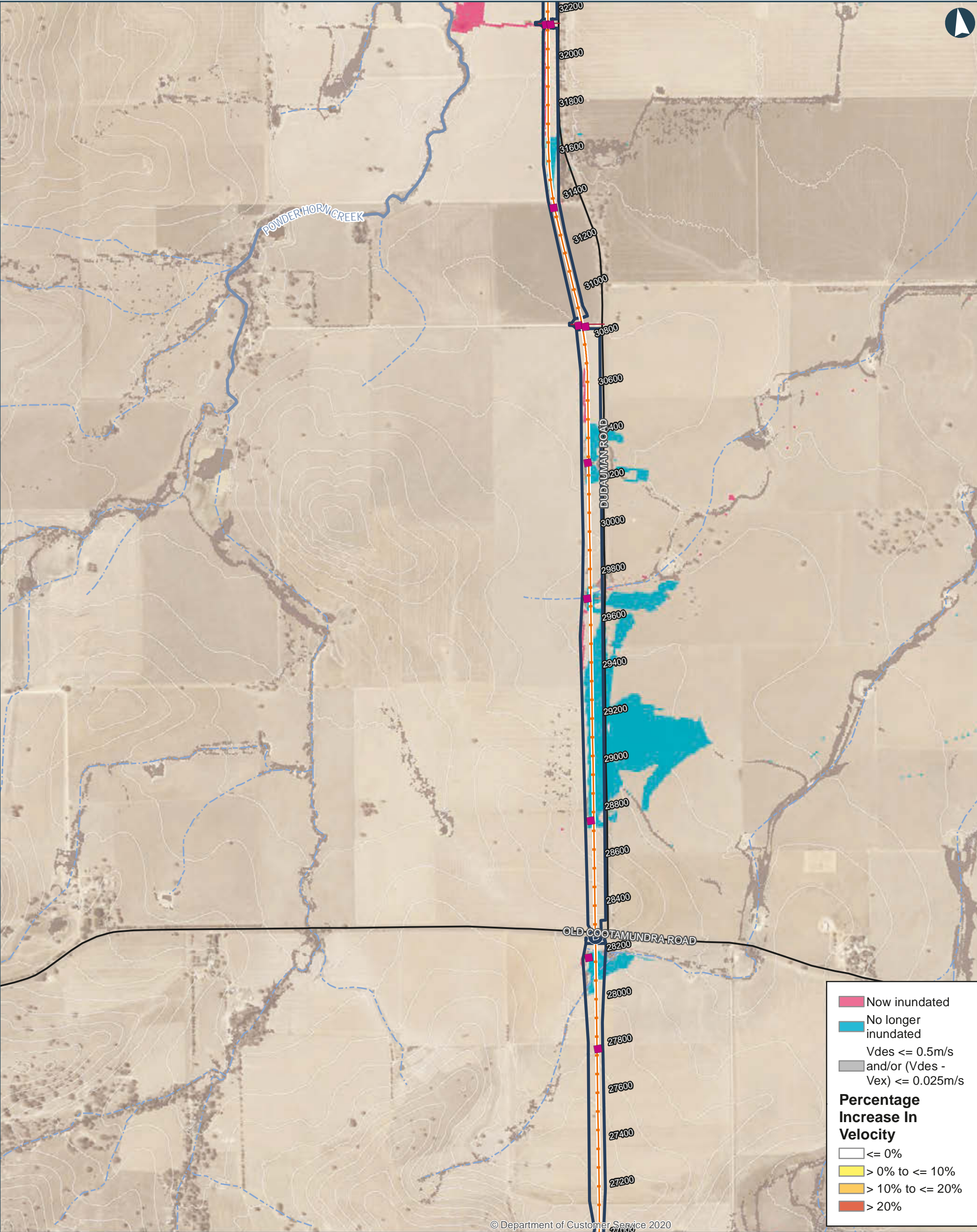
Paper: A3
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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 7 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Paper: A3
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— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

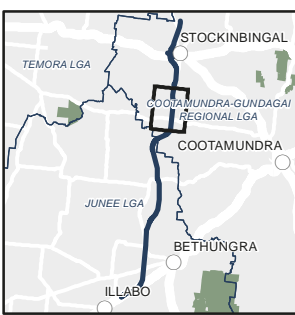
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

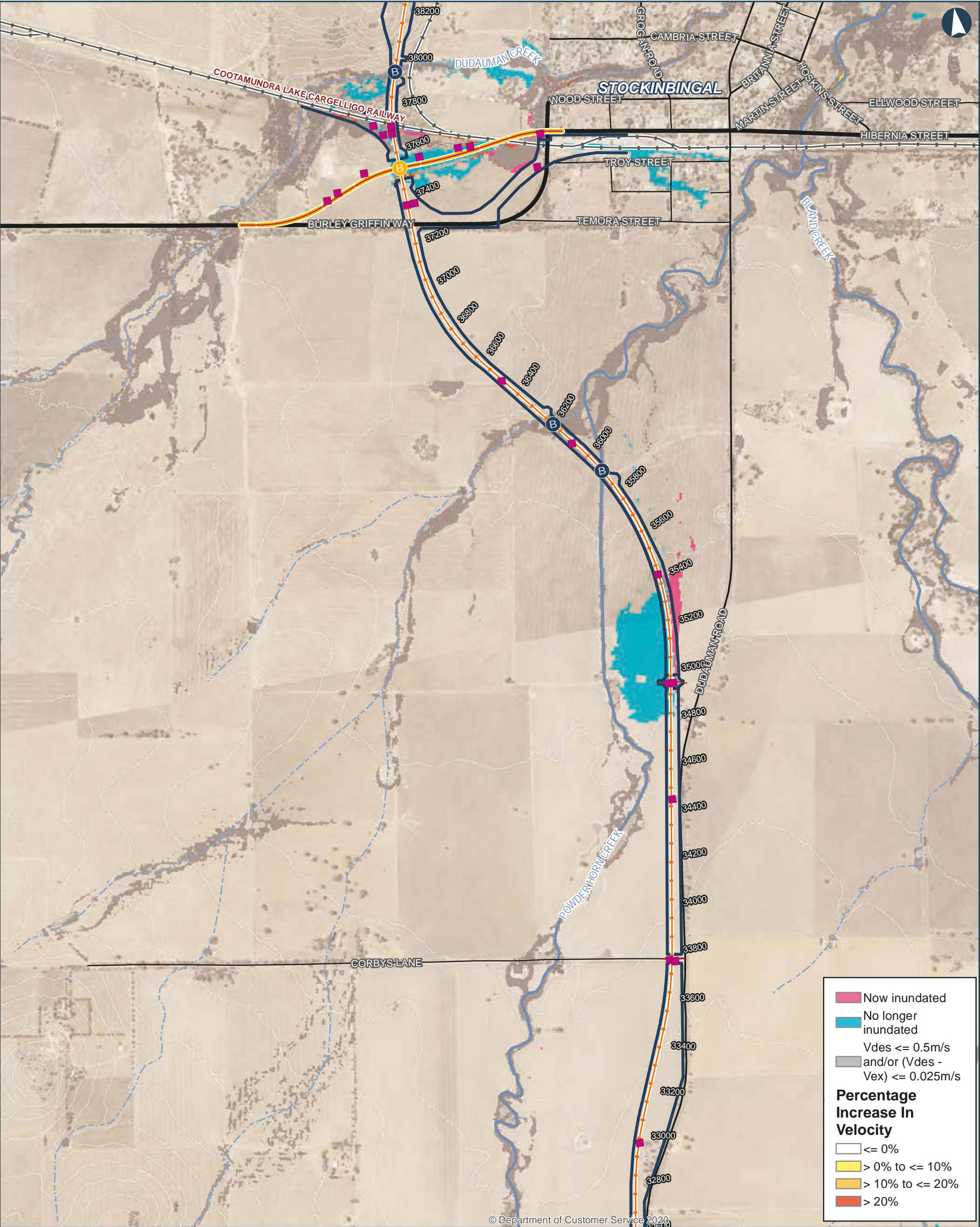
— Sub-arterial road

— Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

Map 8 of 9

0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

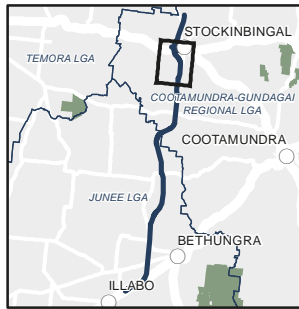
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Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Burley Griffin Way Realignment
- Overbridge

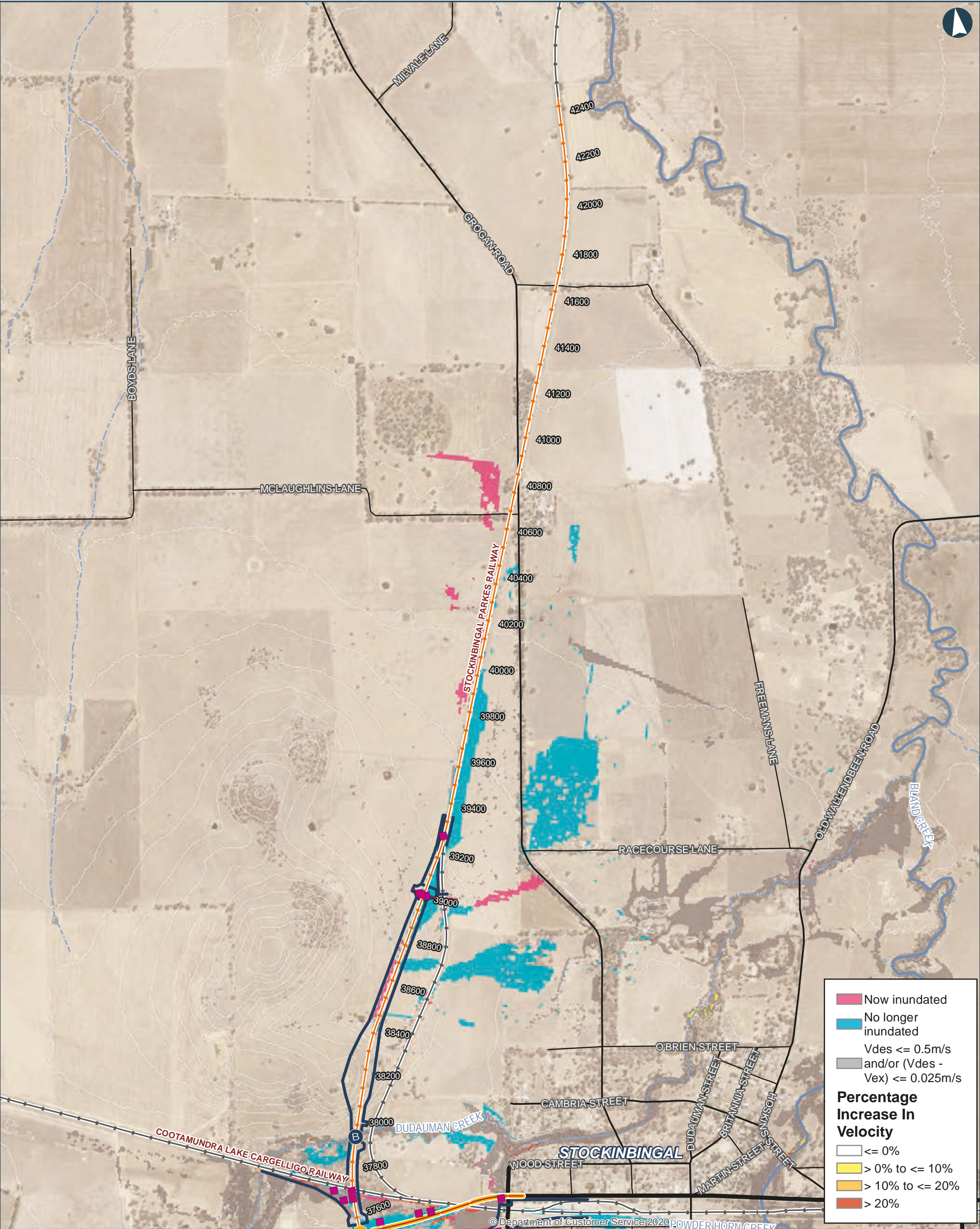
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road

- Sub-arterial road
- Arterial road



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ILLABO TO STOCKINBINGAL 0.2EY Percentage Change in Velocity

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

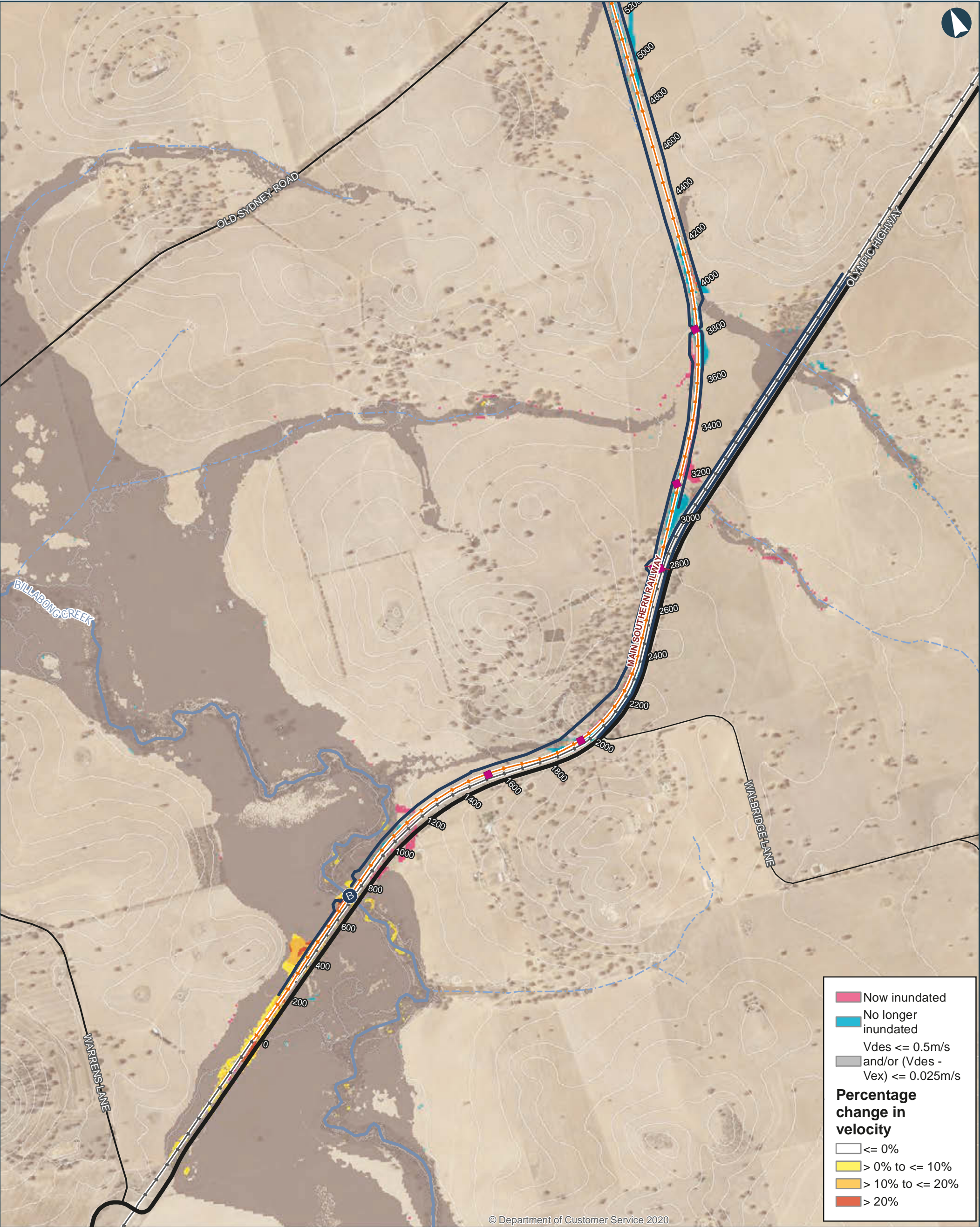
Local road

Sub-arterial road

Arterial road

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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

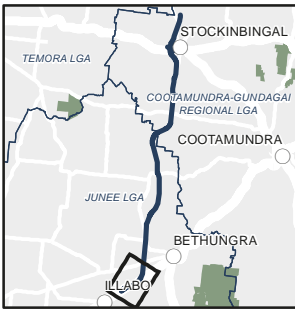
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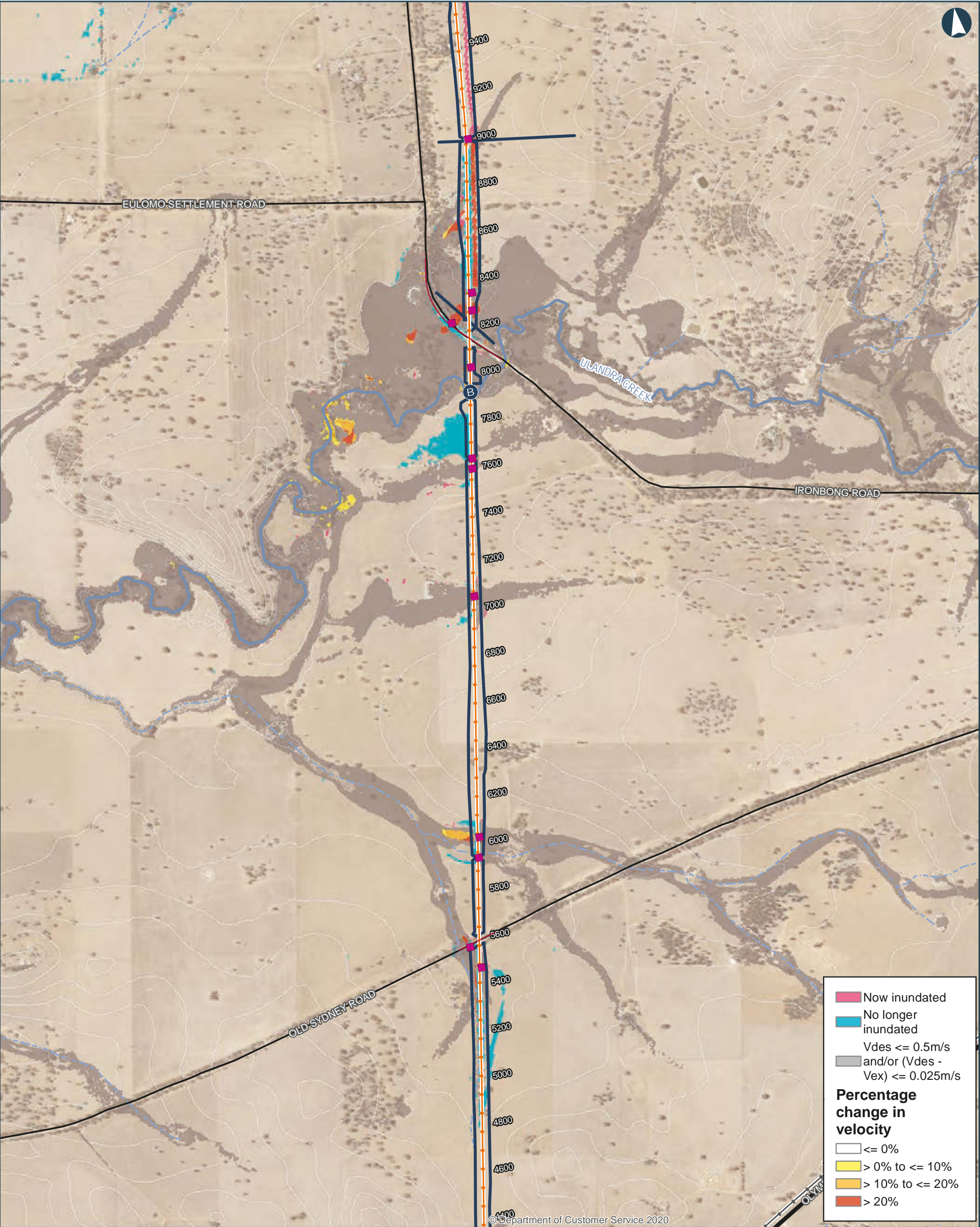
Paper: A3
Scale: 1:15,000

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- Chainage (distance in metres from southern limit of the proposal)
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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

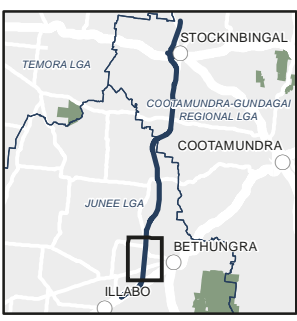
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

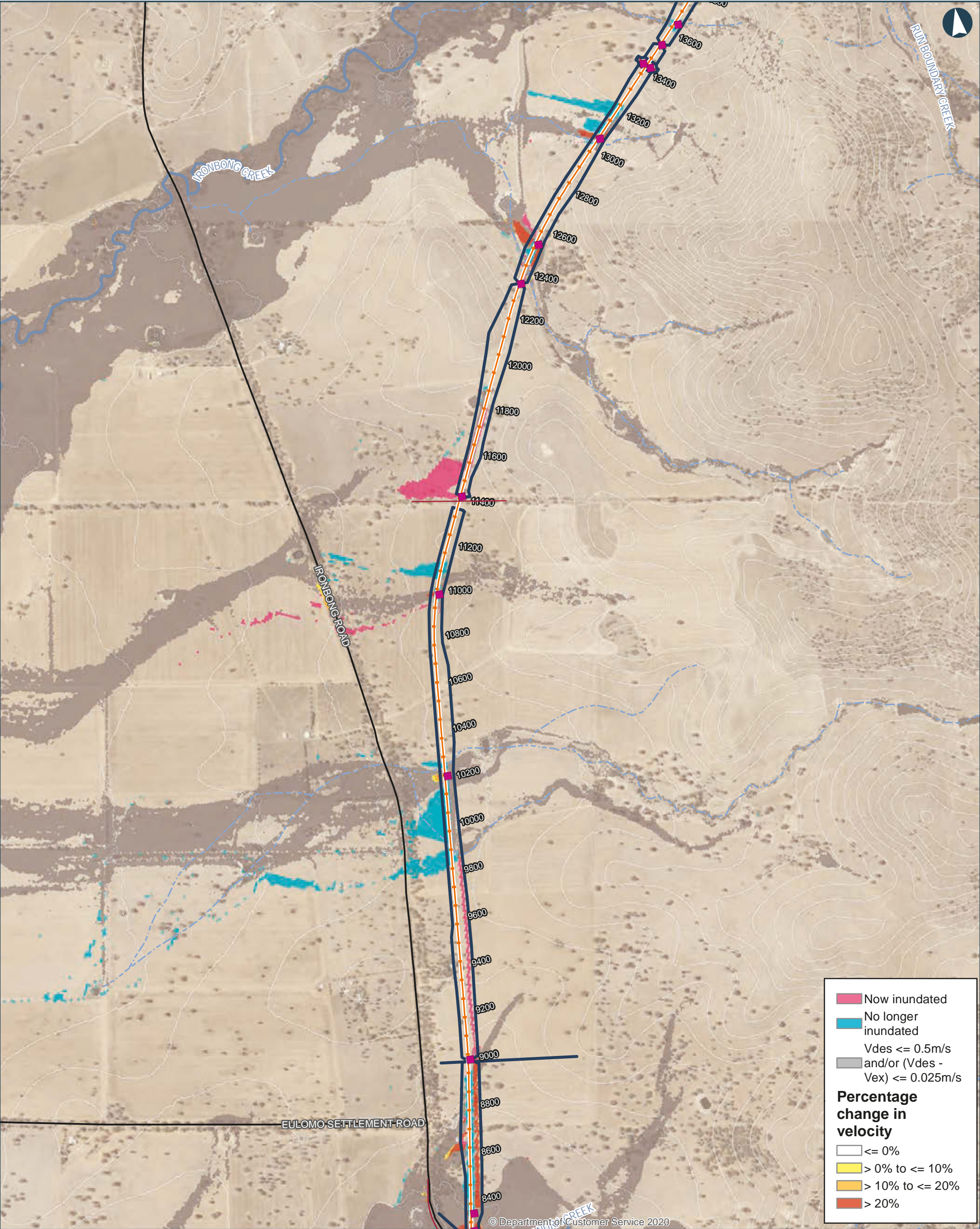
— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

0 200 400 Metres

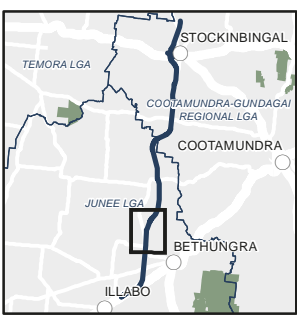
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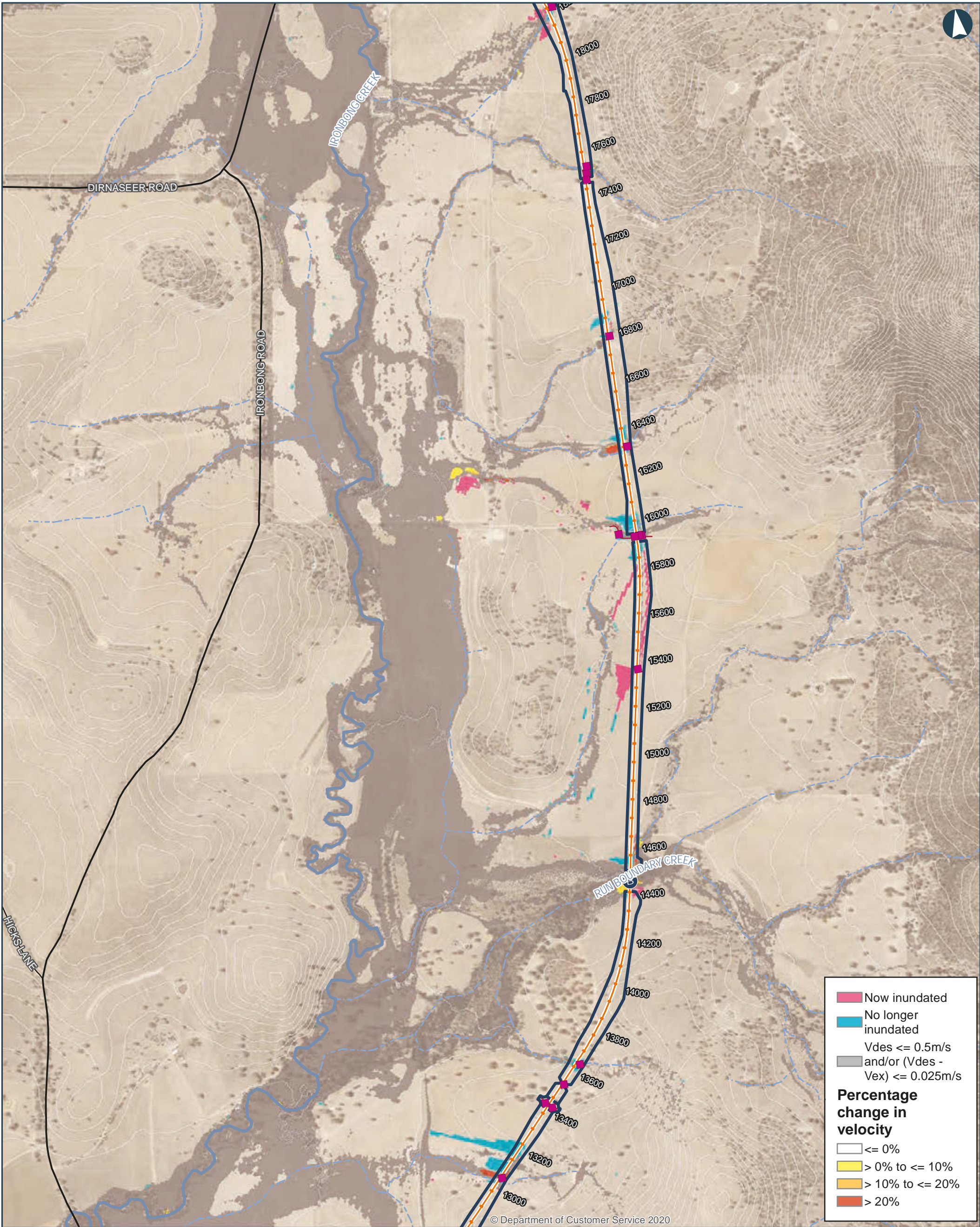
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- Proposal site
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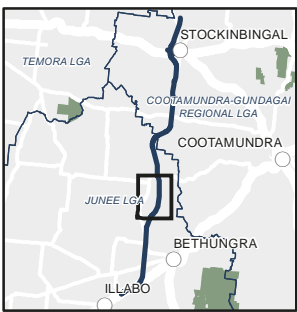
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- Arterial road

Now inundated
No longer inundated
 $V_{des} \leq 0.5m/s$
and/or $(V_{des} - V_{ex}) \leq 0.025m/s$

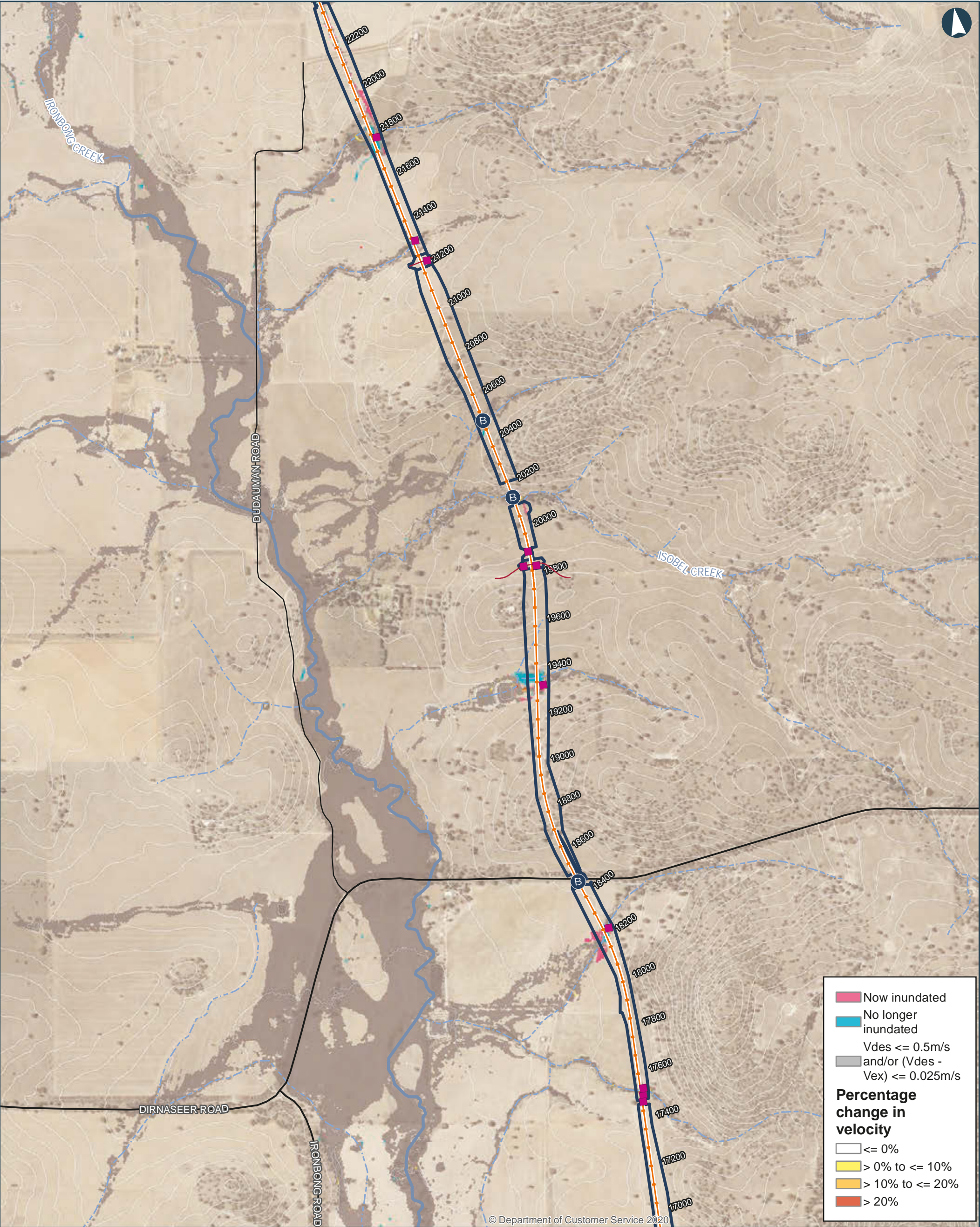
Percentage change in velocity

- $\leq 0\%$
- $> 0\%$ to $\leq 10\%$
- $> 10\%$ to $\leq 20\%$
- $> 20\%$



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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

0 200 400 Metres

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Data Sources: IRDJV, ARTC, LPI

Paper: A3
Scale: 1:15,000

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

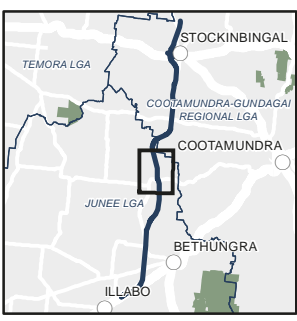
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

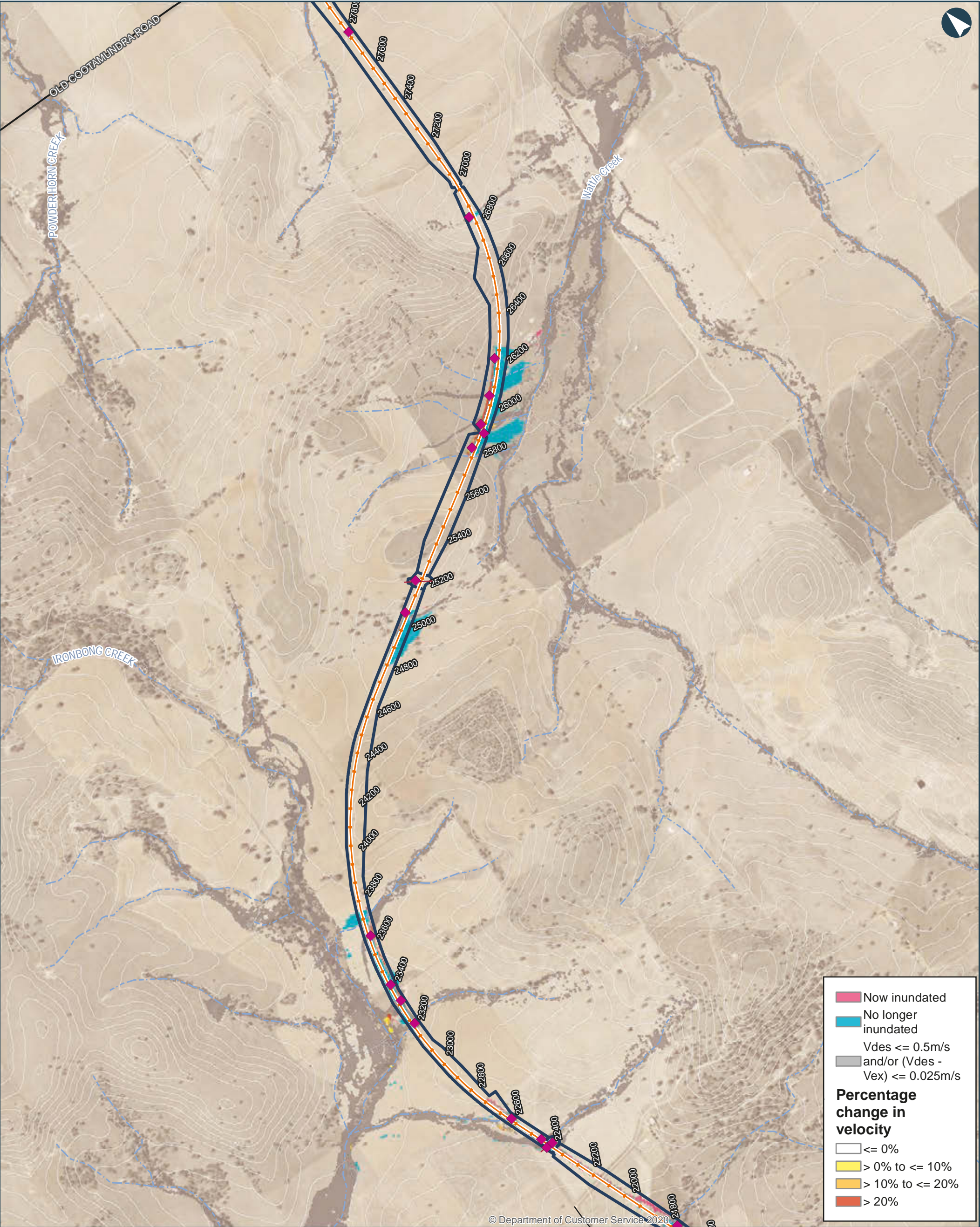
— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINAL 10% AEP Percentage Change in Velocity

Map 6 of 9

0 200 400 Metres

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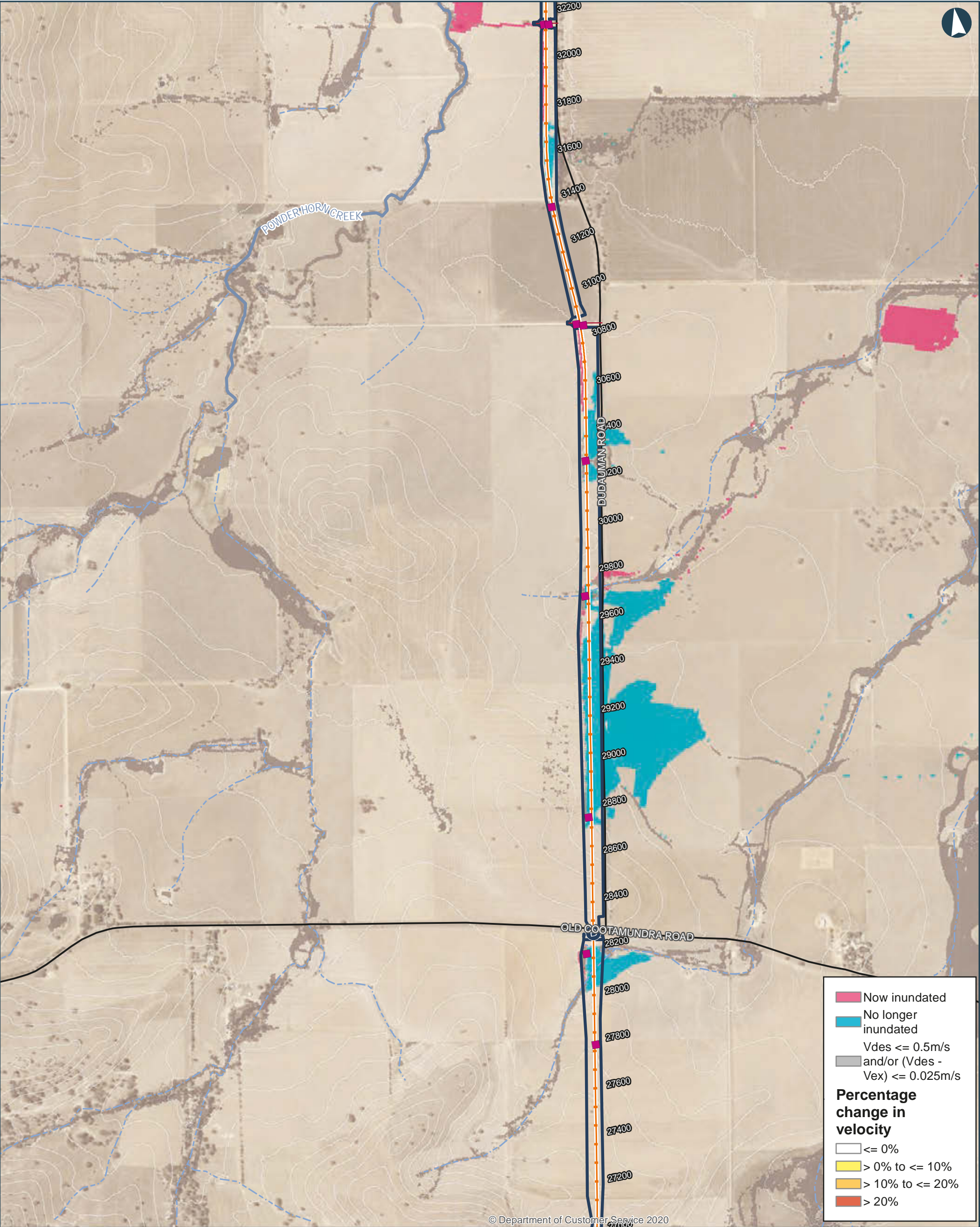
Paper: A3
Scale: 1:15,000

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
- Underbridge
- Culvert
- 5m Contours
- Existing Rail
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ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

Map 7 of 9

0 200 400 Metres

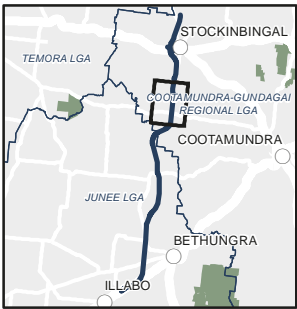
Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

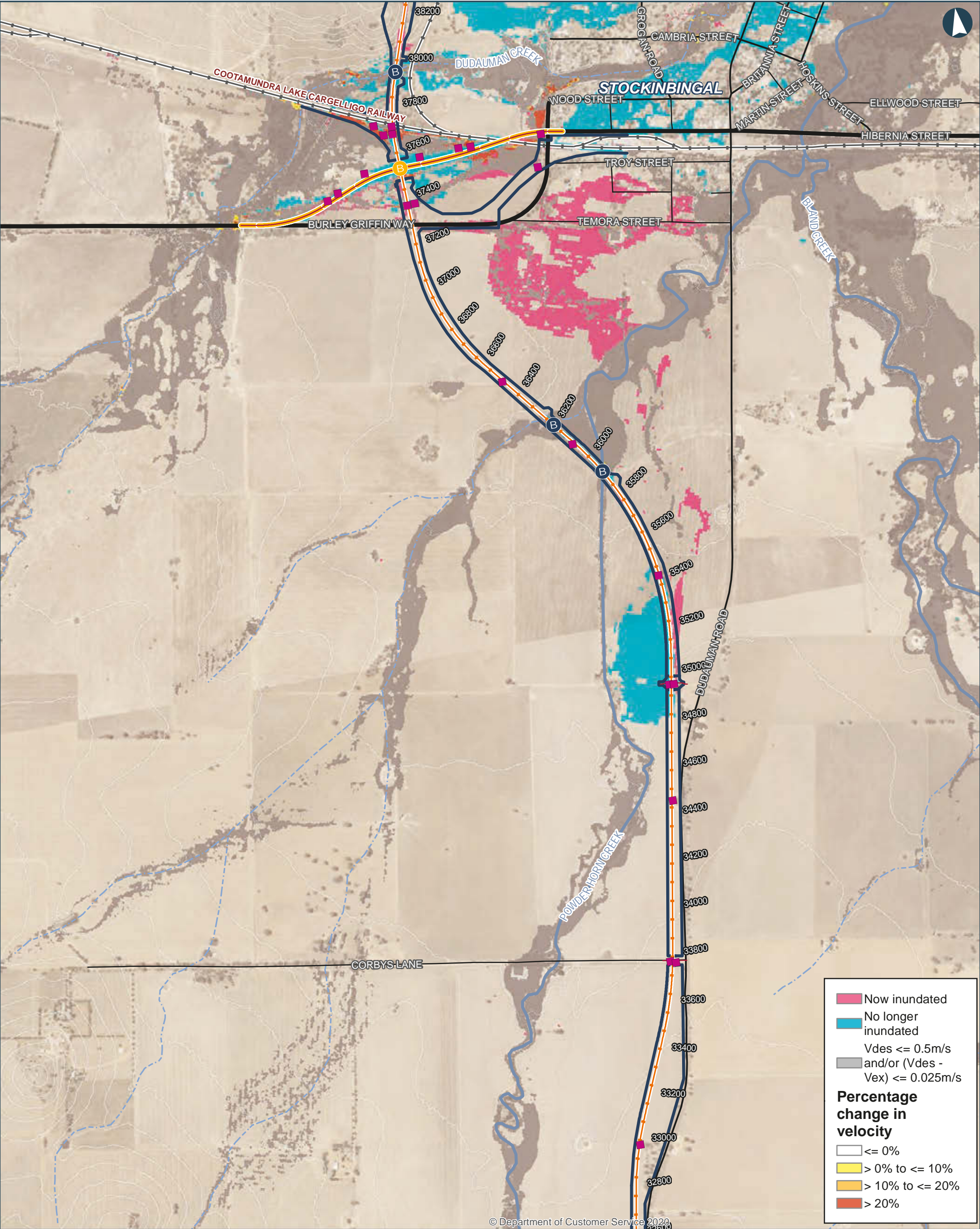
Paper: A3
Scale: 1:15,000

- Proposal site
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- Existing Rail
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0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Burley Griffin Way Realignment

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

— Sub-arterial road

— Arterial road

ILLABO

STOCKINBINGAL

TEMORA LGA

COOTAMUNDRA-GUNDAGUI REGIONAL LGA

COOTAMUNDRA

JUNEE LGA

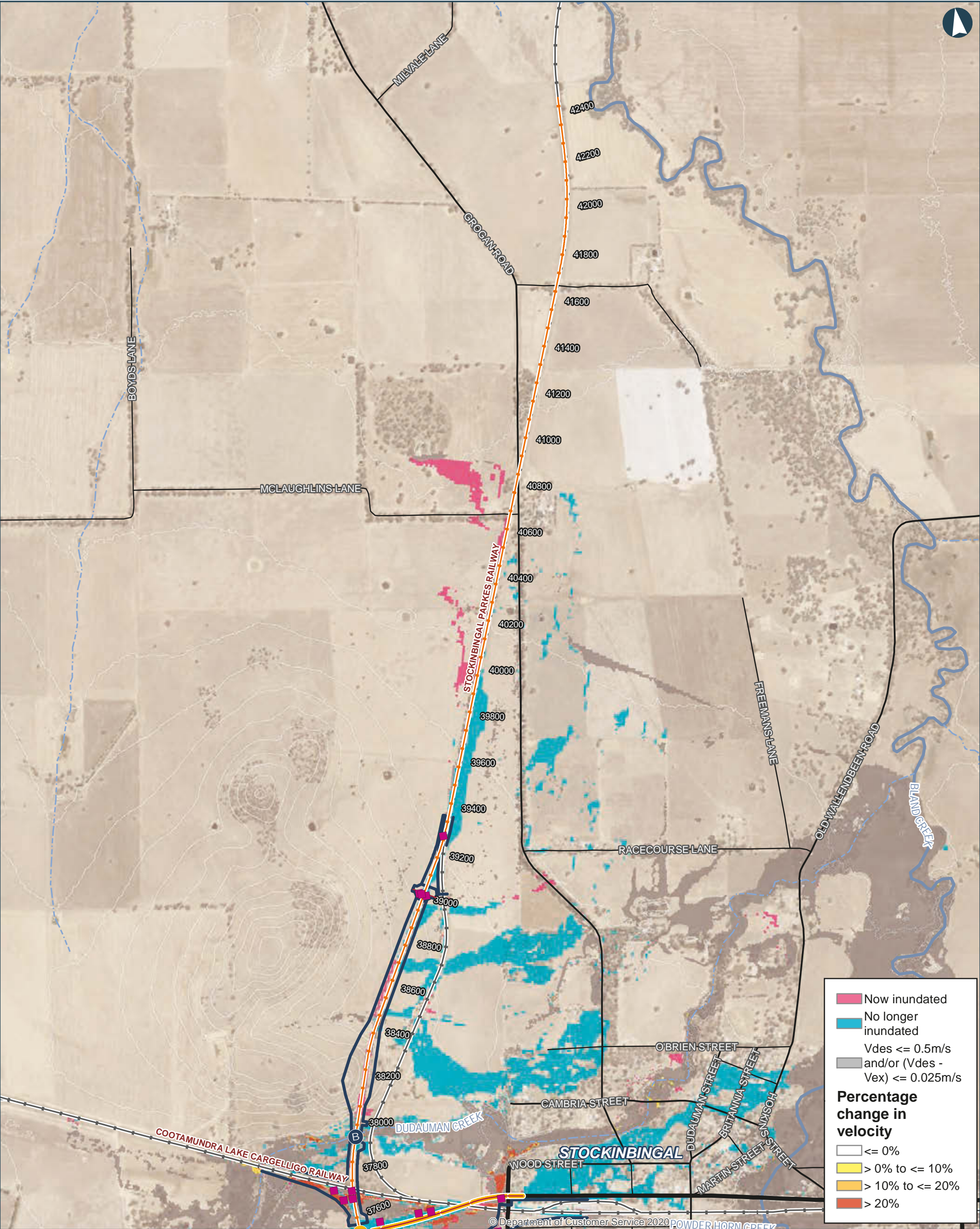
BETHUNGRA

INLAND RAIL

ARTC

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G:\Projects\PS108286_L2S\Tasks\220_0118_HYD_Hydrology\ReportResubmission\May22\Documents\10AEP\220_0118_HYD_10AEPVelocityChange_v4.mxd



ILLABO TO STOCKINBINGAL 10% AEP Percentage Change in Velocity

0 200 400 Metres

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Overbridge

Underbridge

Culvert

5m Contours

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Local road

Sub-arterial road

Arterial road

STOCKINBINGAL

ILLABO

COOTAMUNDRA

BETHUNGRA

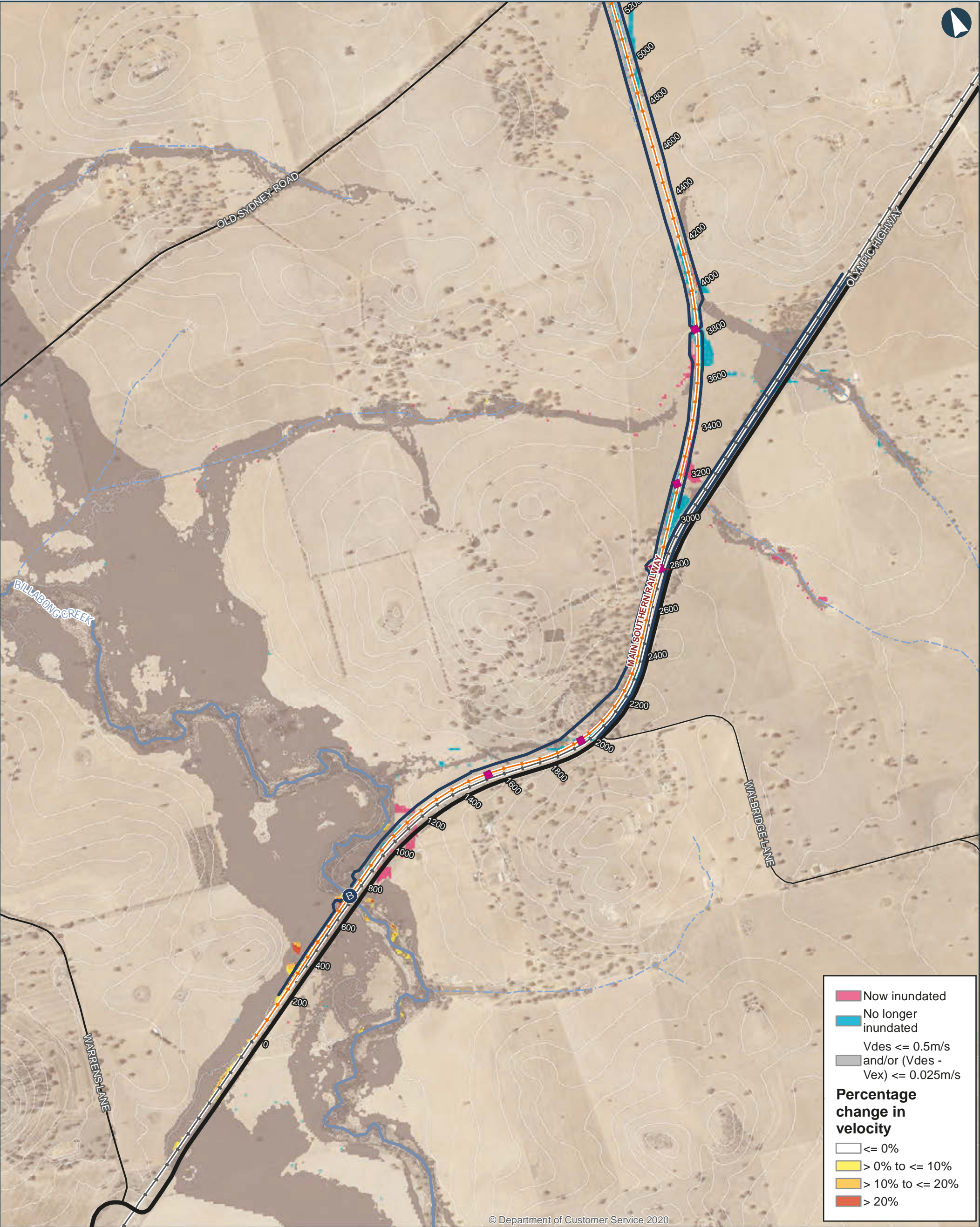
JUNEE LGA

COOTAMUNDRA-GUNDAGUI REGIONAL LGA

TEMORA LGA

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

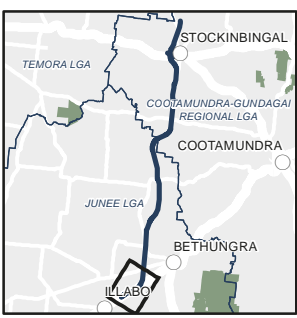
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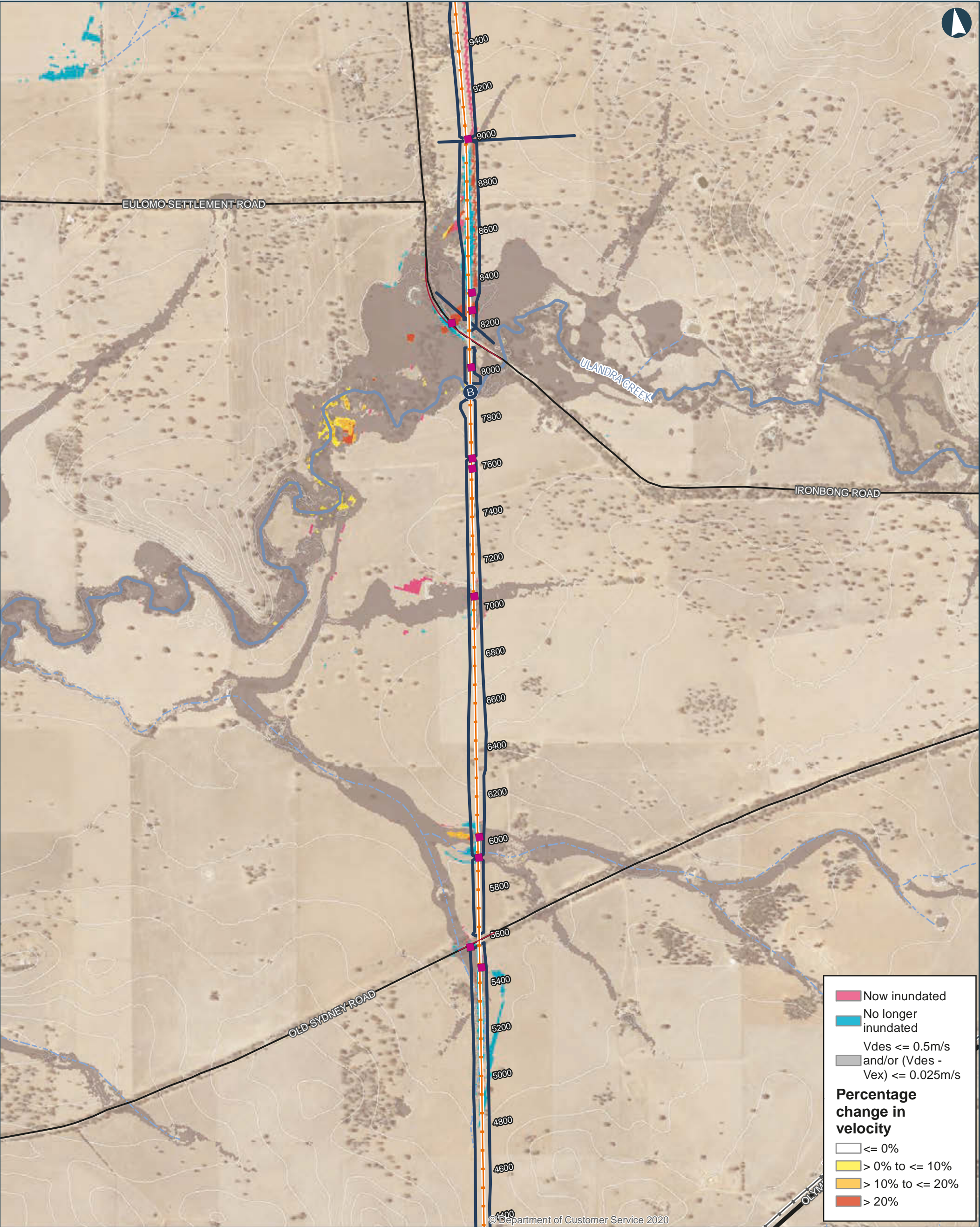
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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

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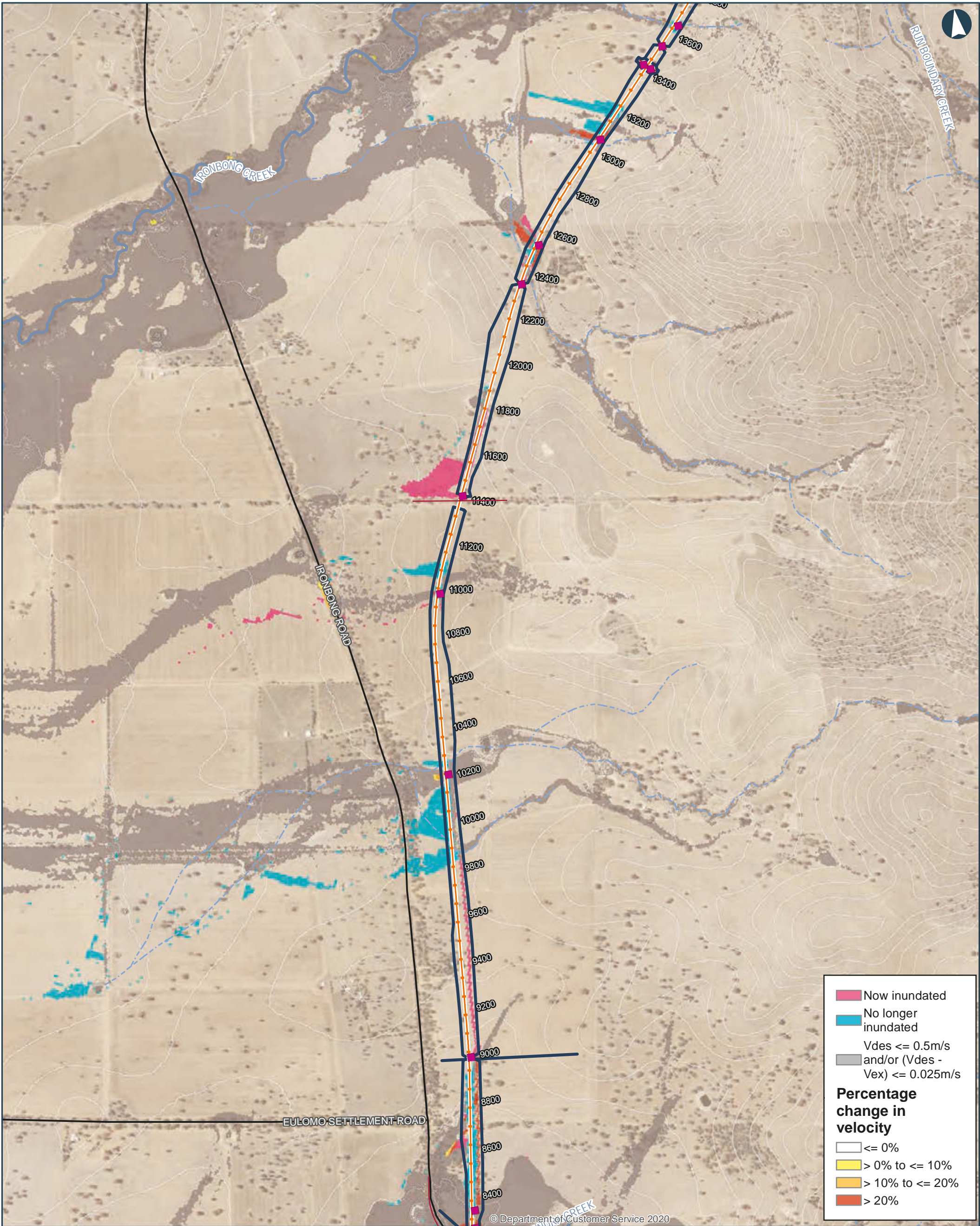
— Local road

— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

Map 3 of 9

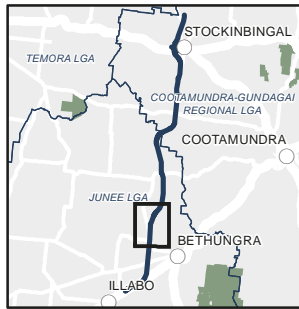
0 200 400
Metres

Coordinate System: GDA 1994 MGA Zone 55

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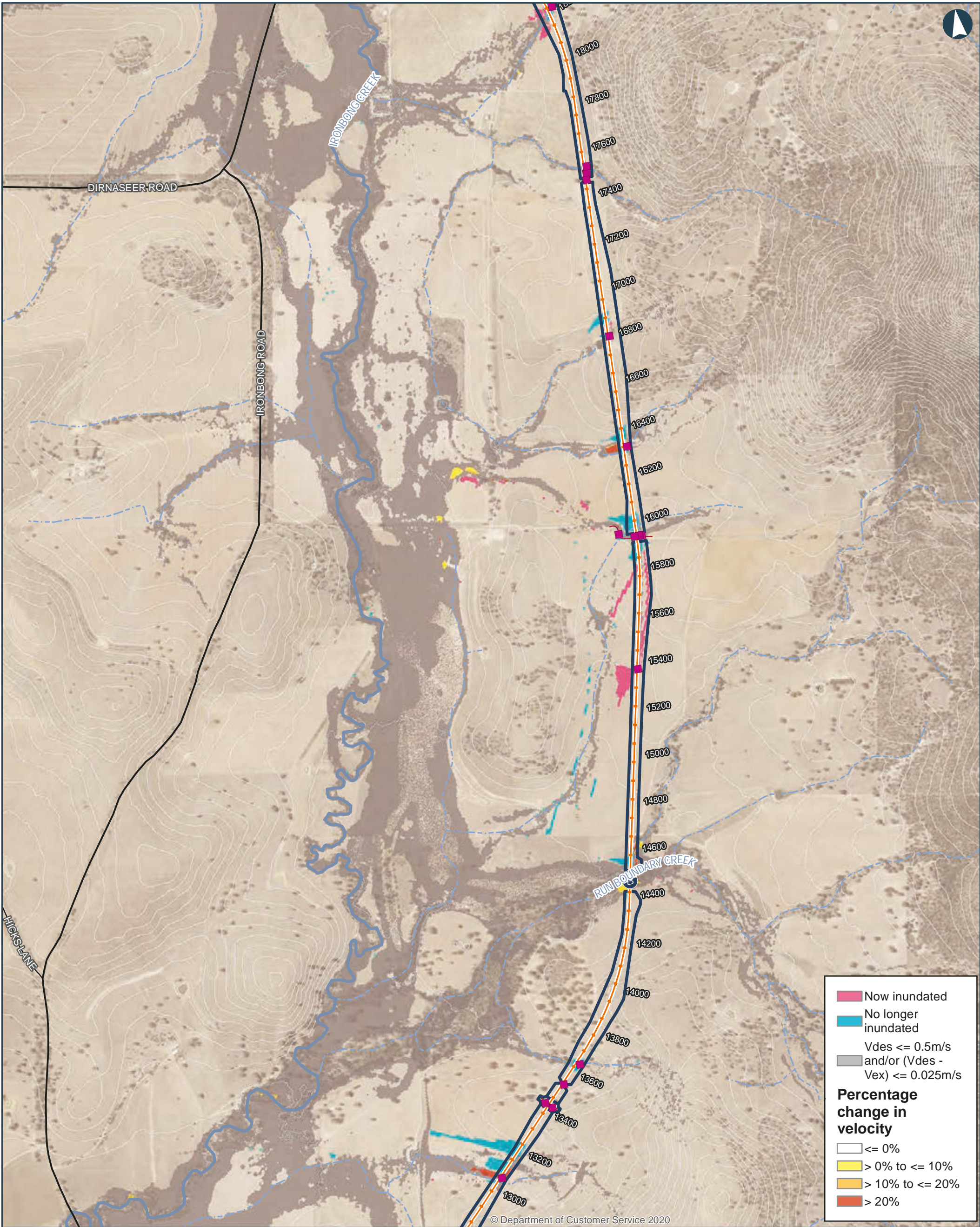
Date: 8/4/2022 Paper: A3
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Data Sources: IRDJV, ARTC, LPI

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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

0 200 400 Metres

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40950

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

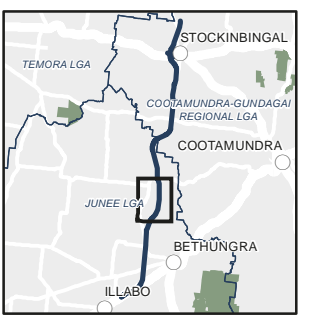
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

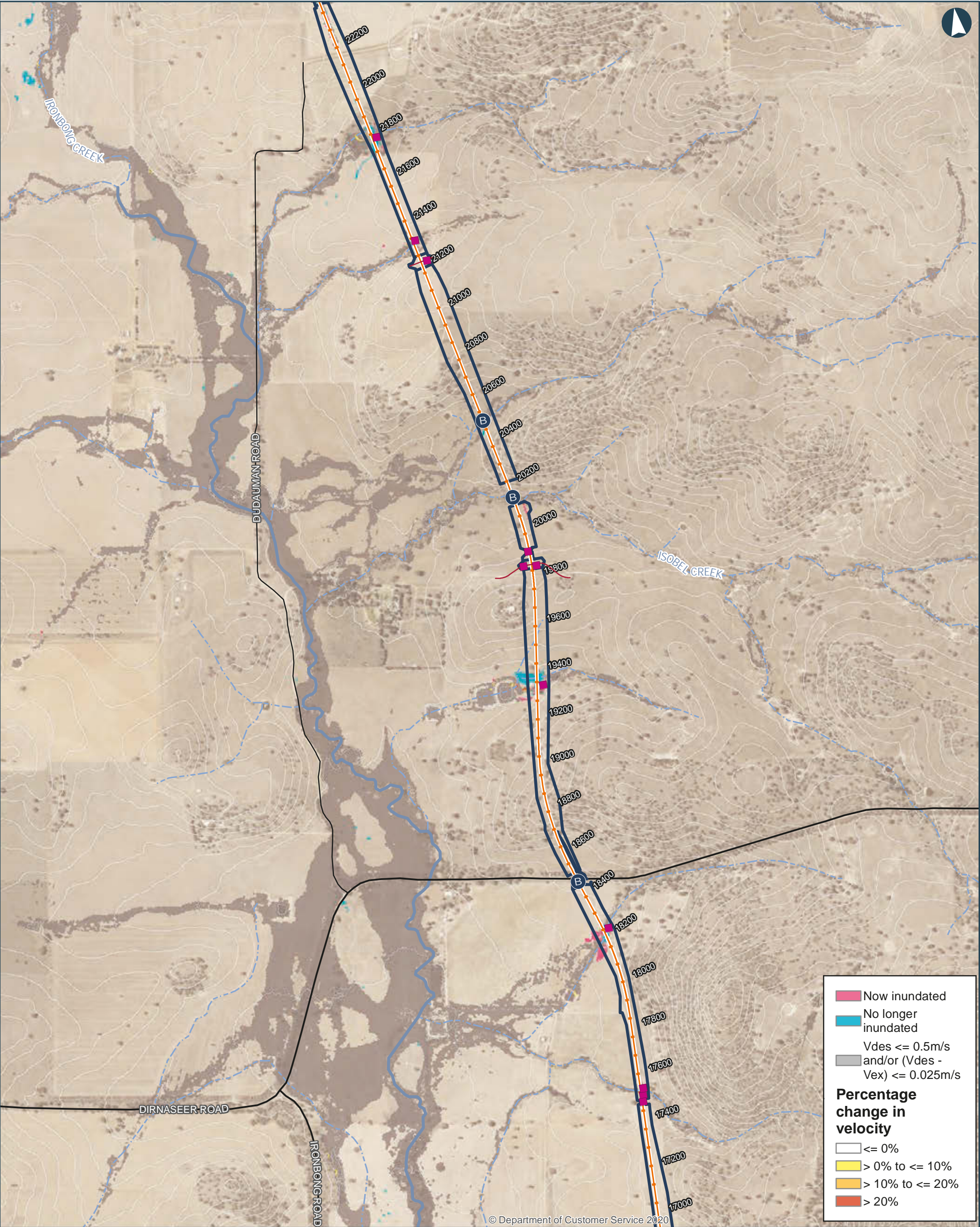
Sub-arterial road

Arterial road



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

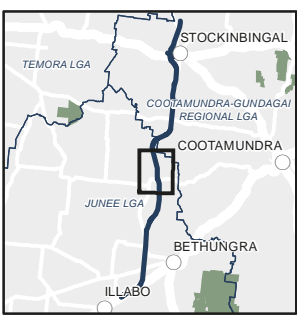
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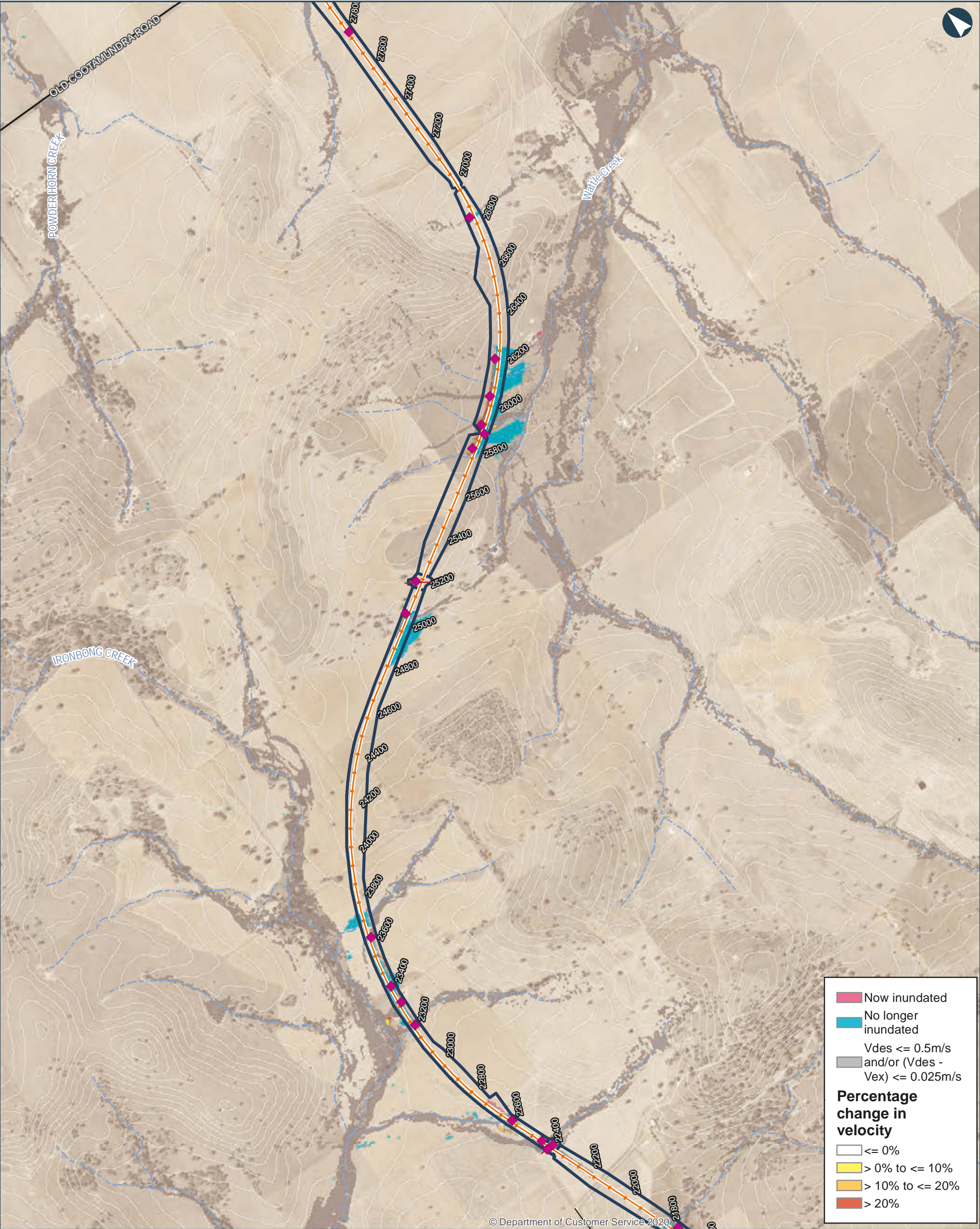
Paper: A3
Scale: 1:15,000

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— 5m Contours

— Existing Rail

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— Major watercourse (Strahler SO 4-6)

— Local road

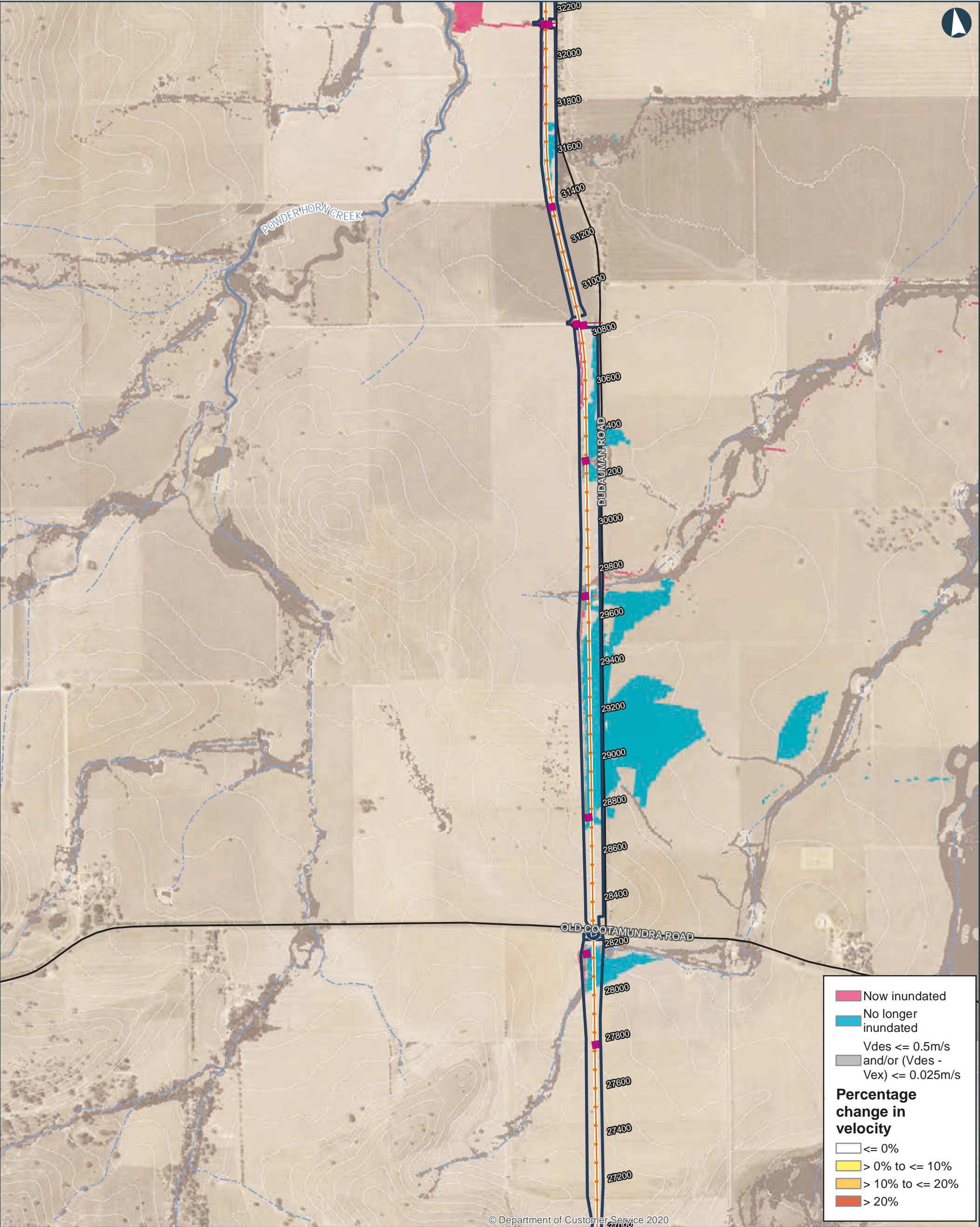
— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

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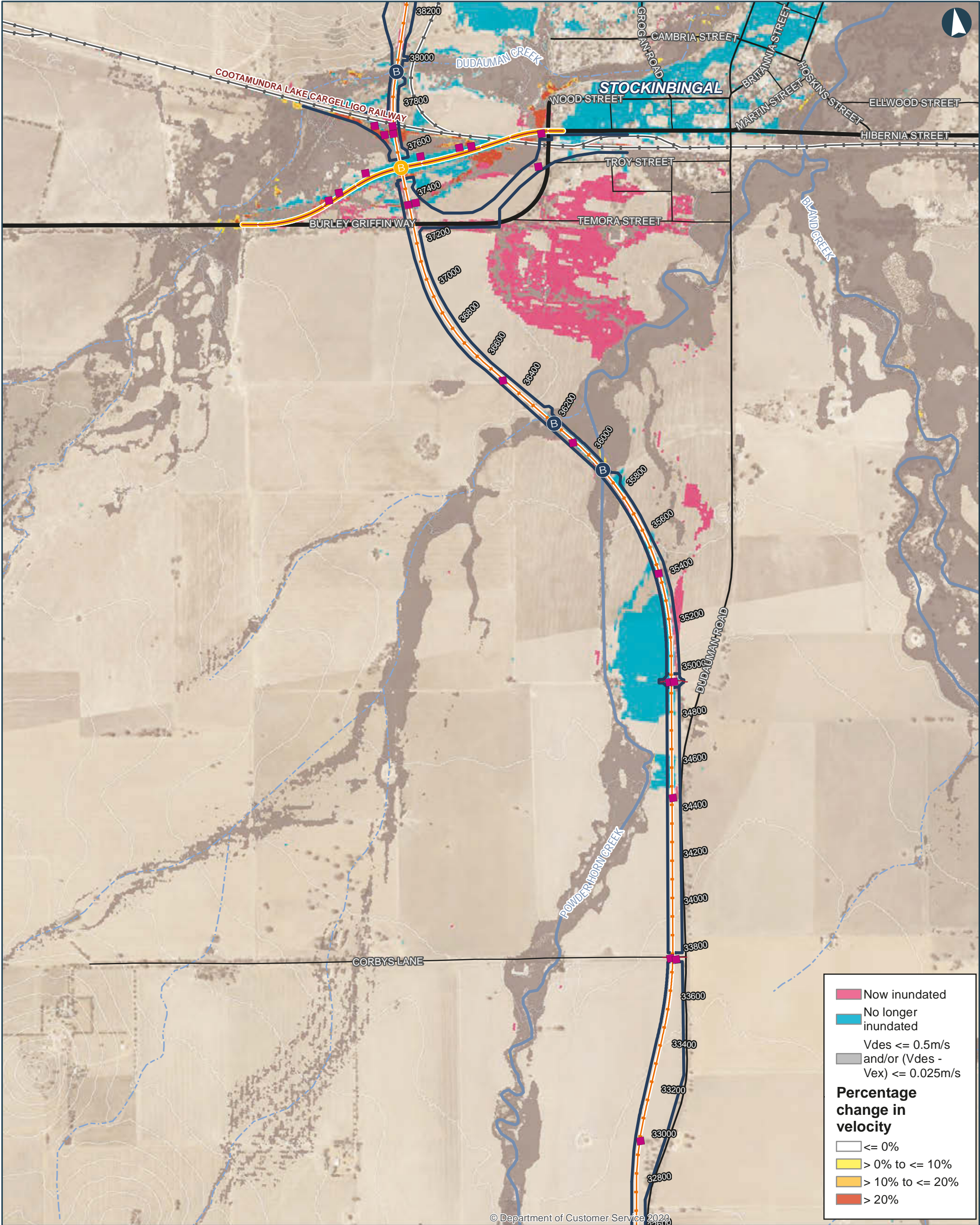
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ILLABO TO STOCKINBINGAL 5% AEP Percentage Change in Velocity

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Data Sources: IRDJV, ARTC, LPI

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

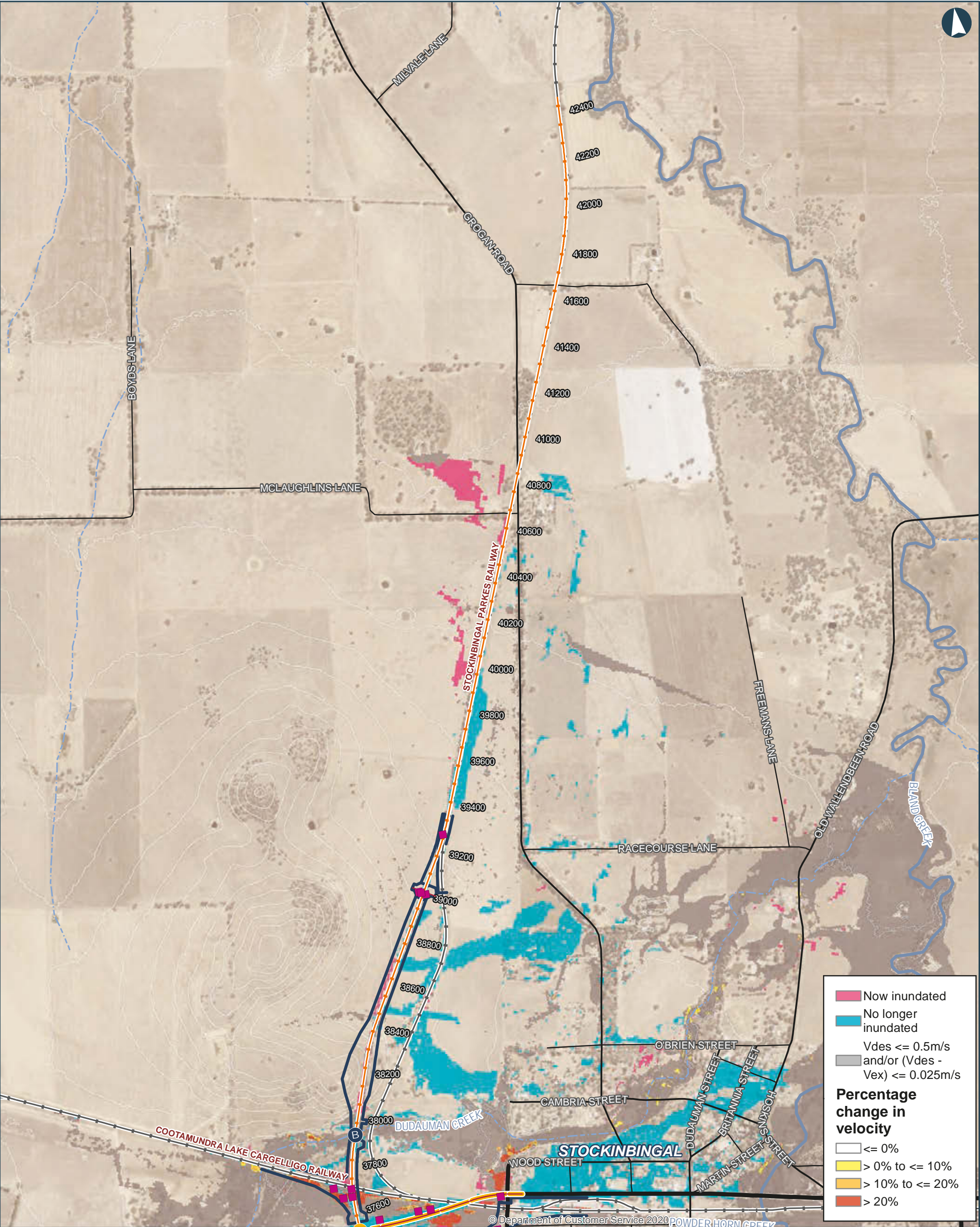
Local road

Sub-arterial road

Arterial road

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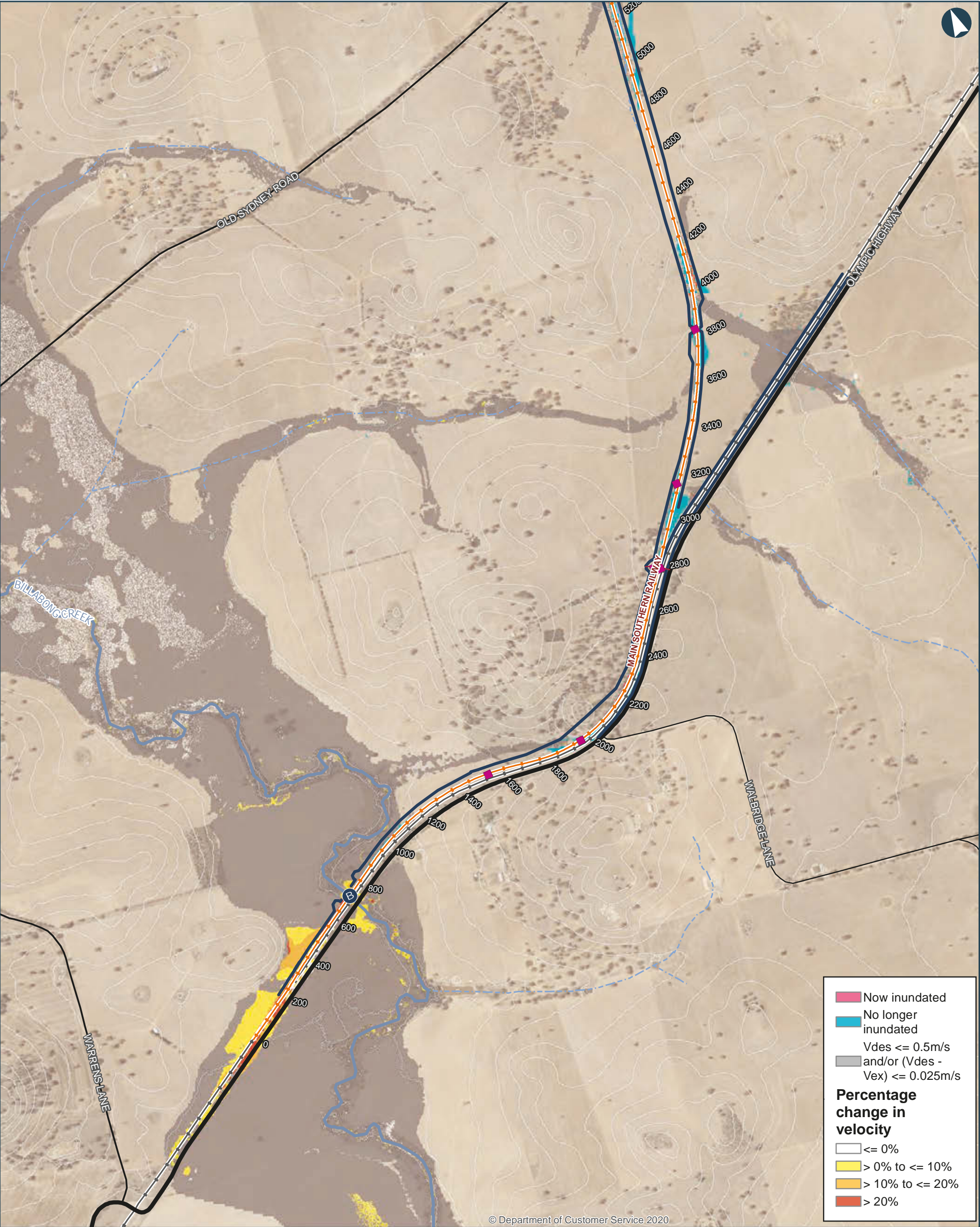
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

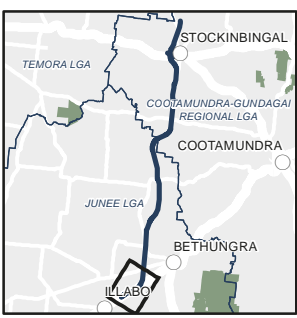
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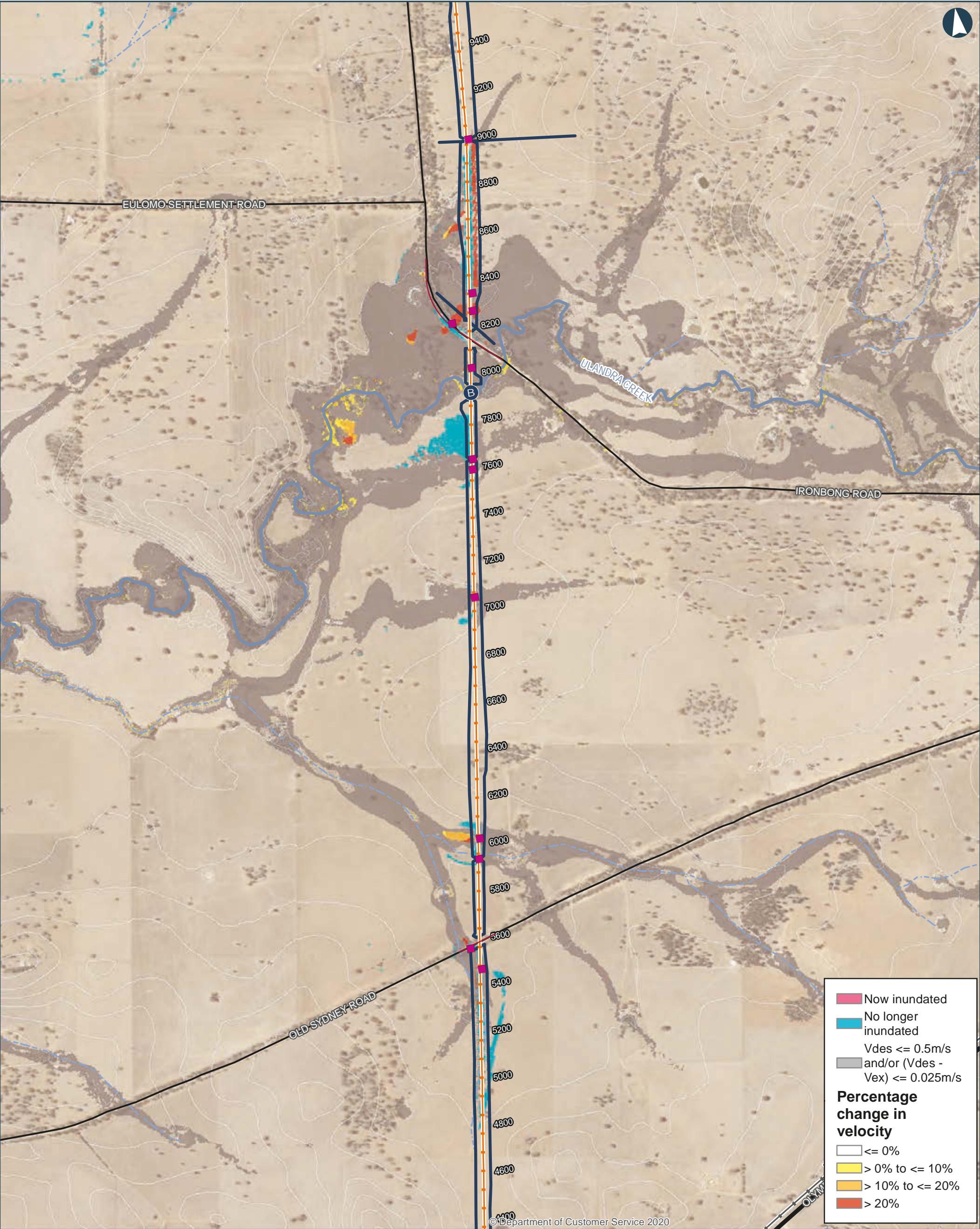
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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

0 200 400 Metres

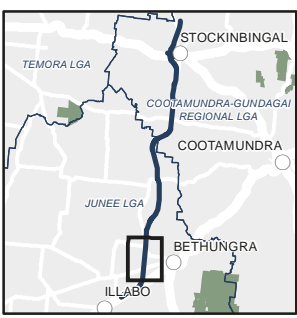
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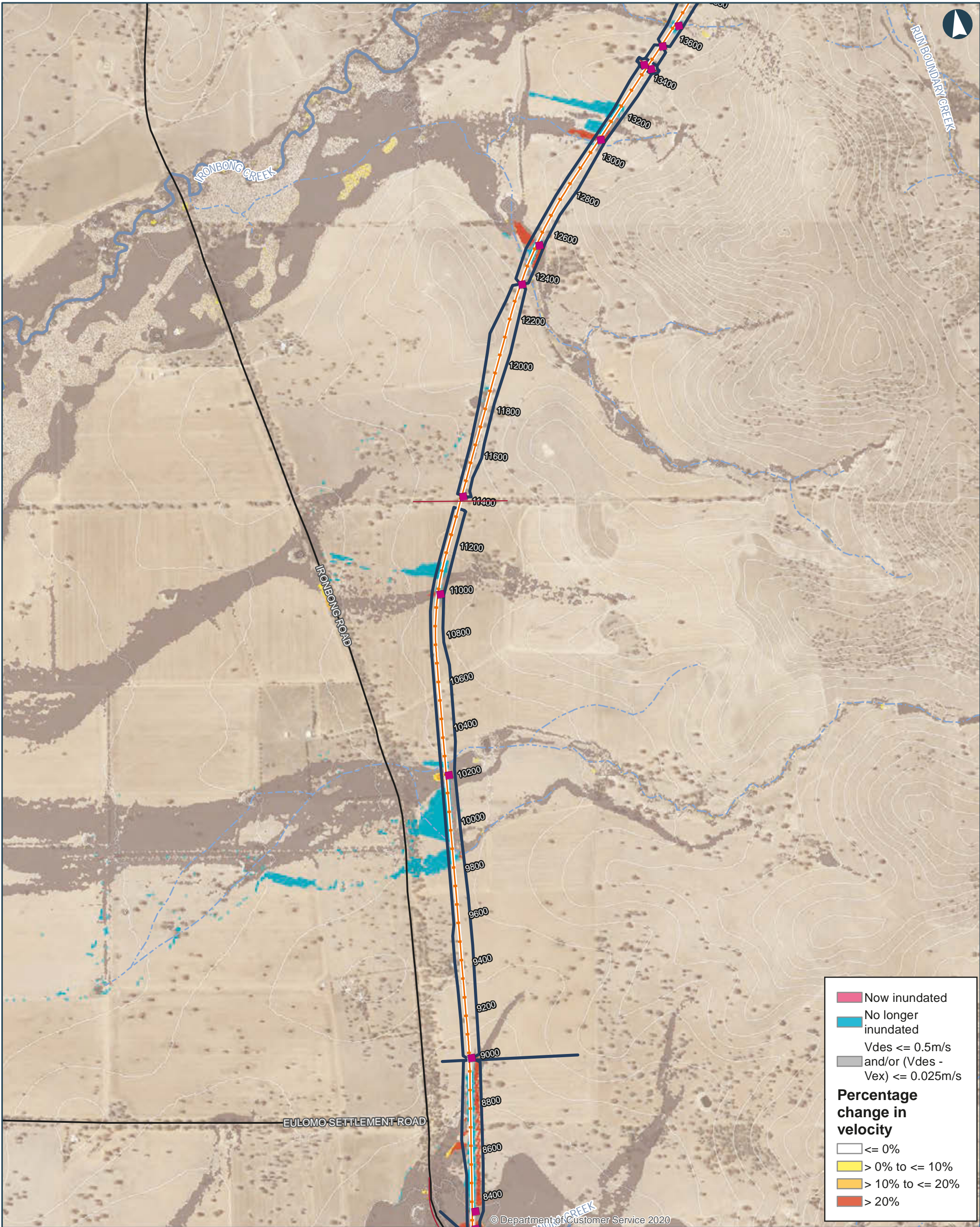
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INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity Map 3 of 9

0 200 400 Metres

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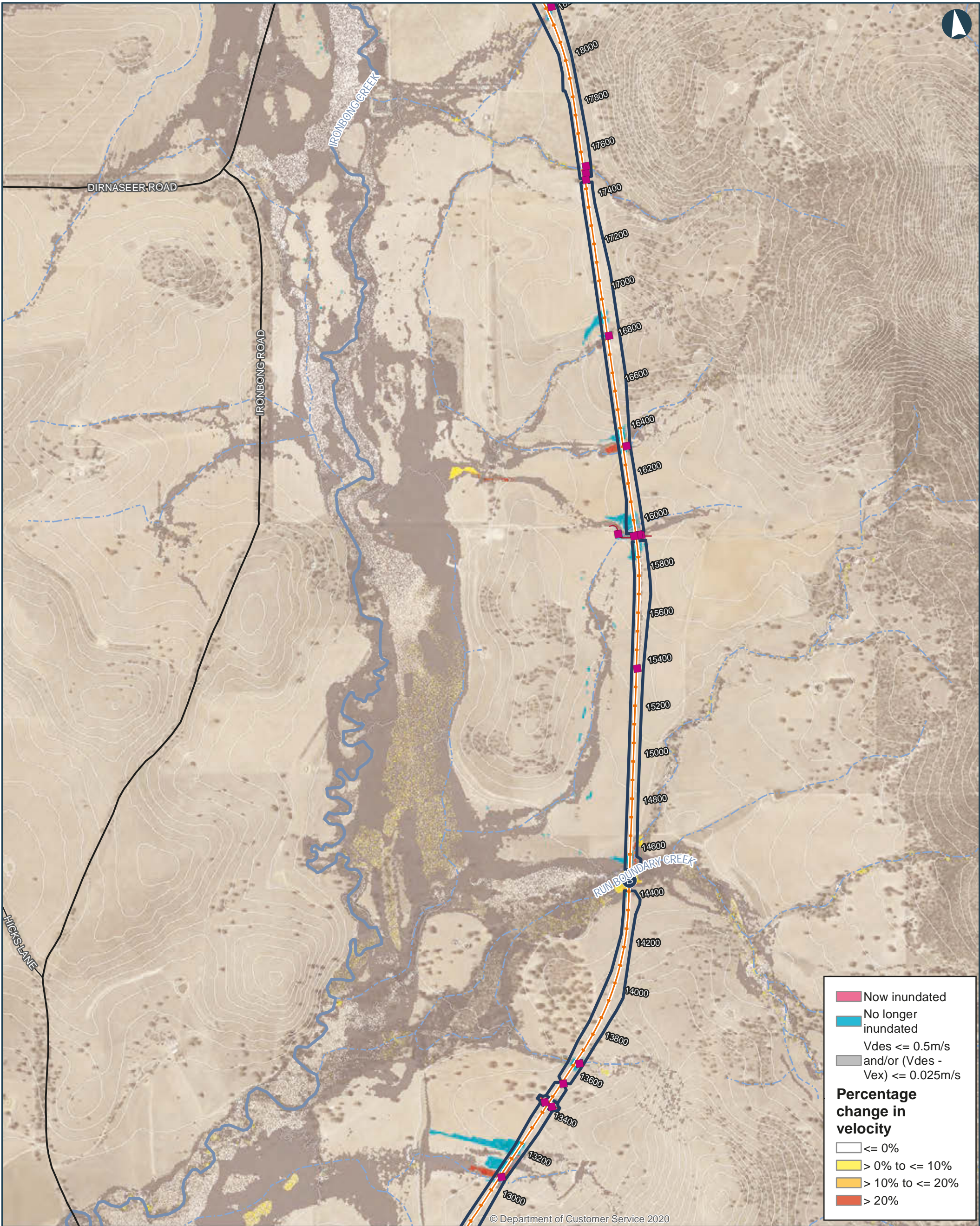
— Local road

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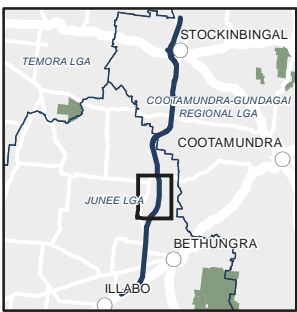
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Major watercourse (Strahler SO 4-6)

Local road

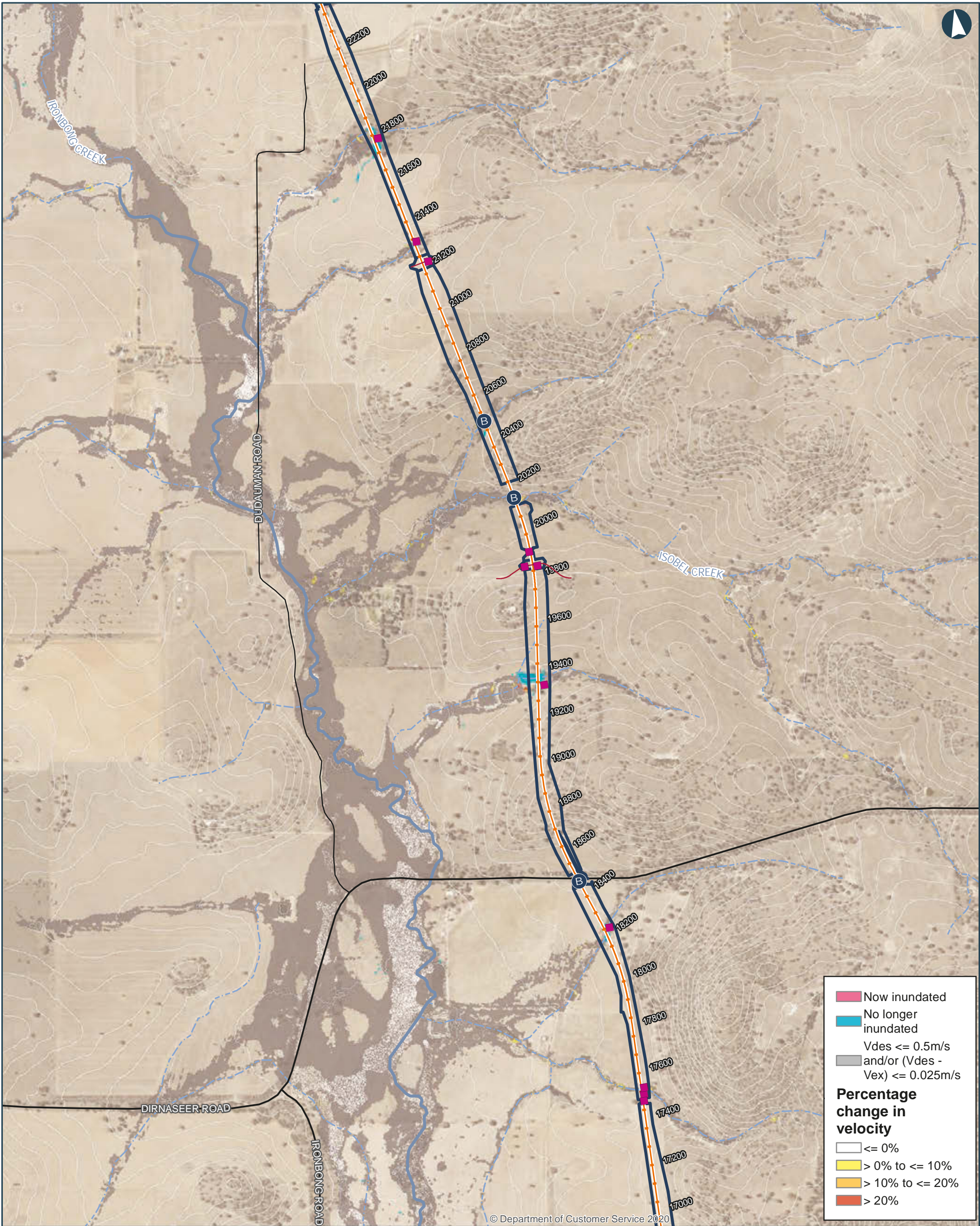
Sub-arterial road

Arterial road



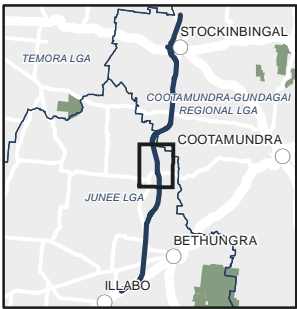
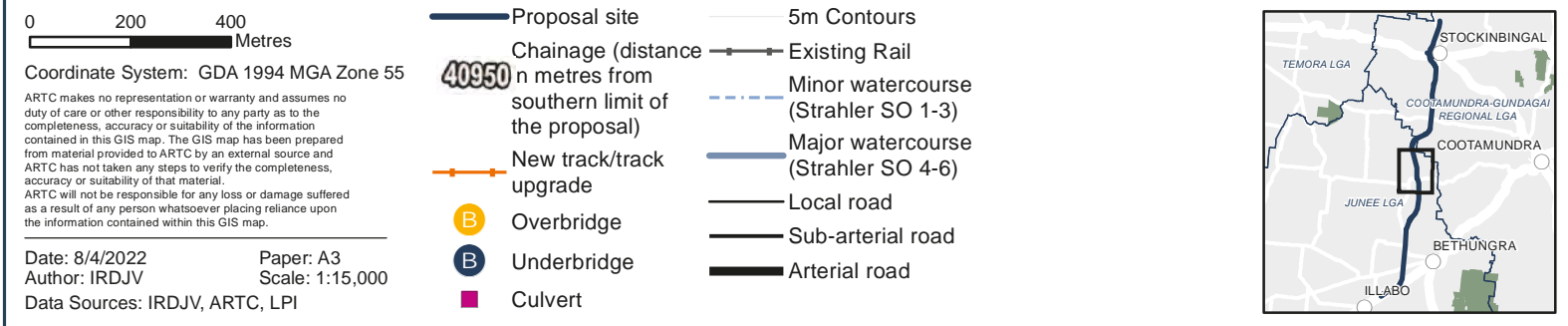
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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

Map 5 of 9



INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

0200400Metres

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 Overbridge

B

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■

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— Existing Rail

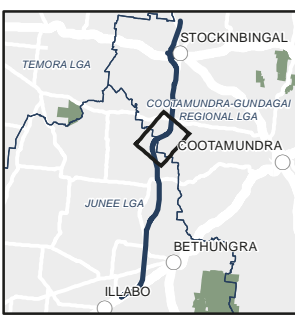
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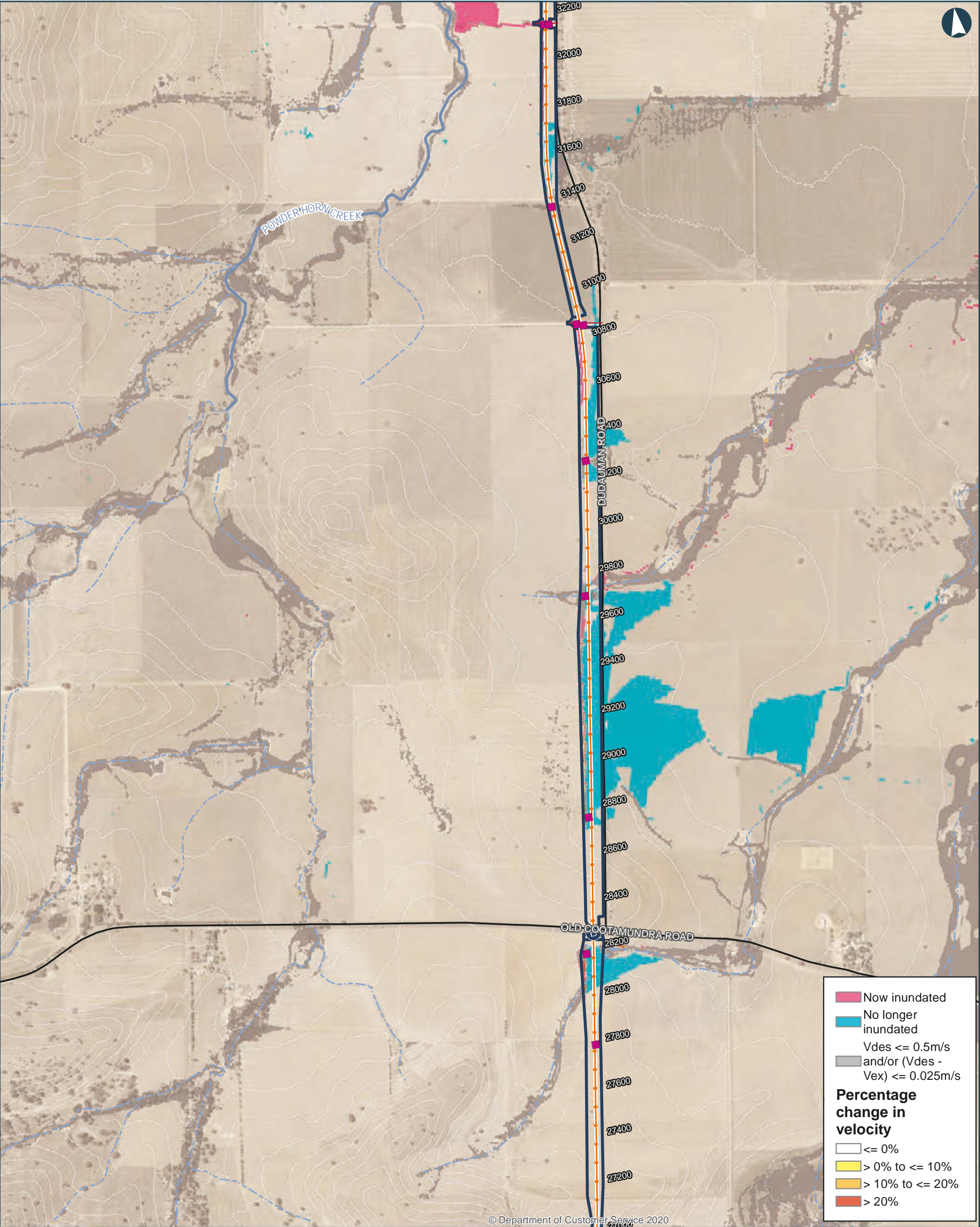
— Local road

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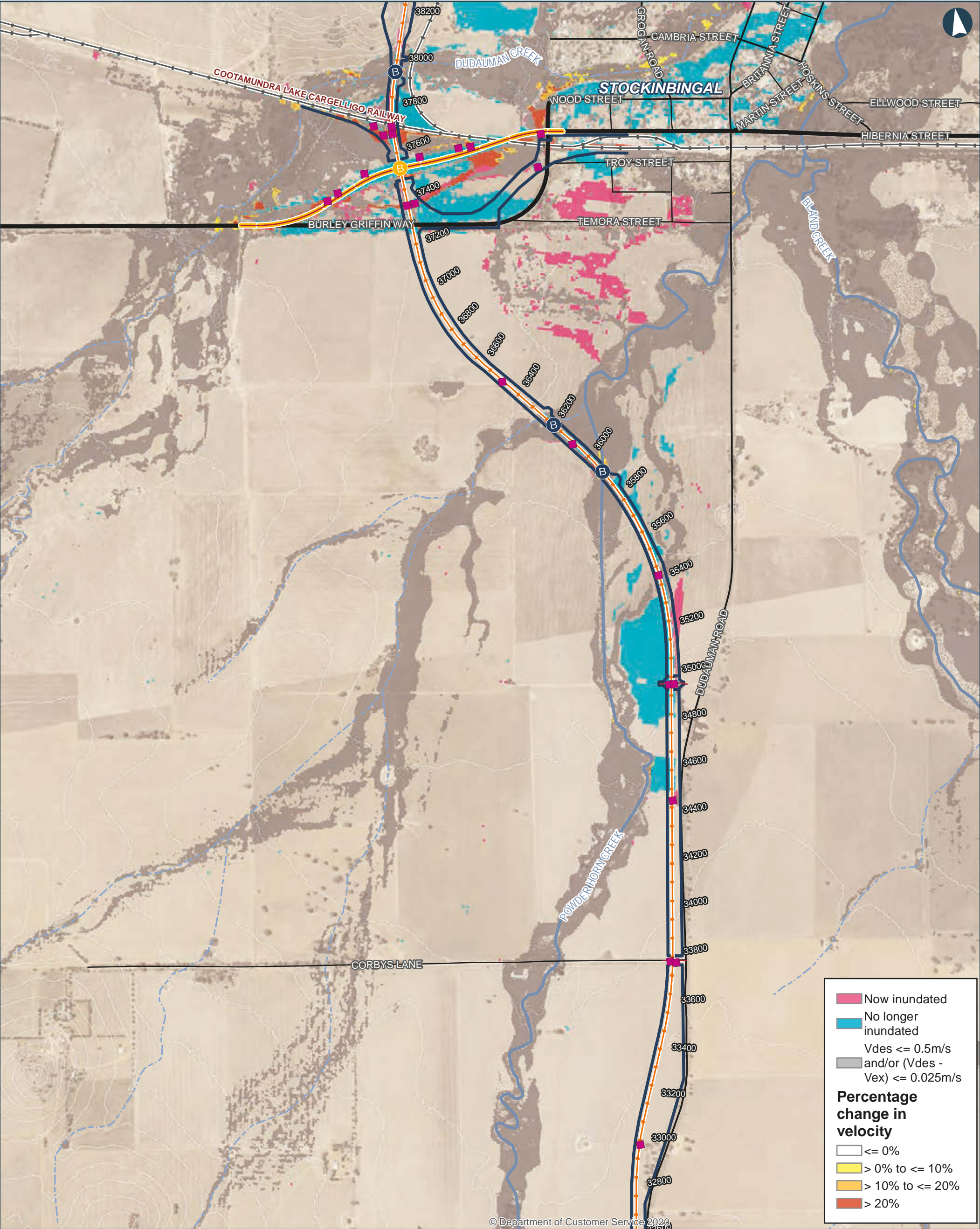
— Sub-arterial road

— Arterial road



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0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

— Proposal site

Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Burley Griffin Way Realignment

B Overbridge

B Underbridge

■ Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

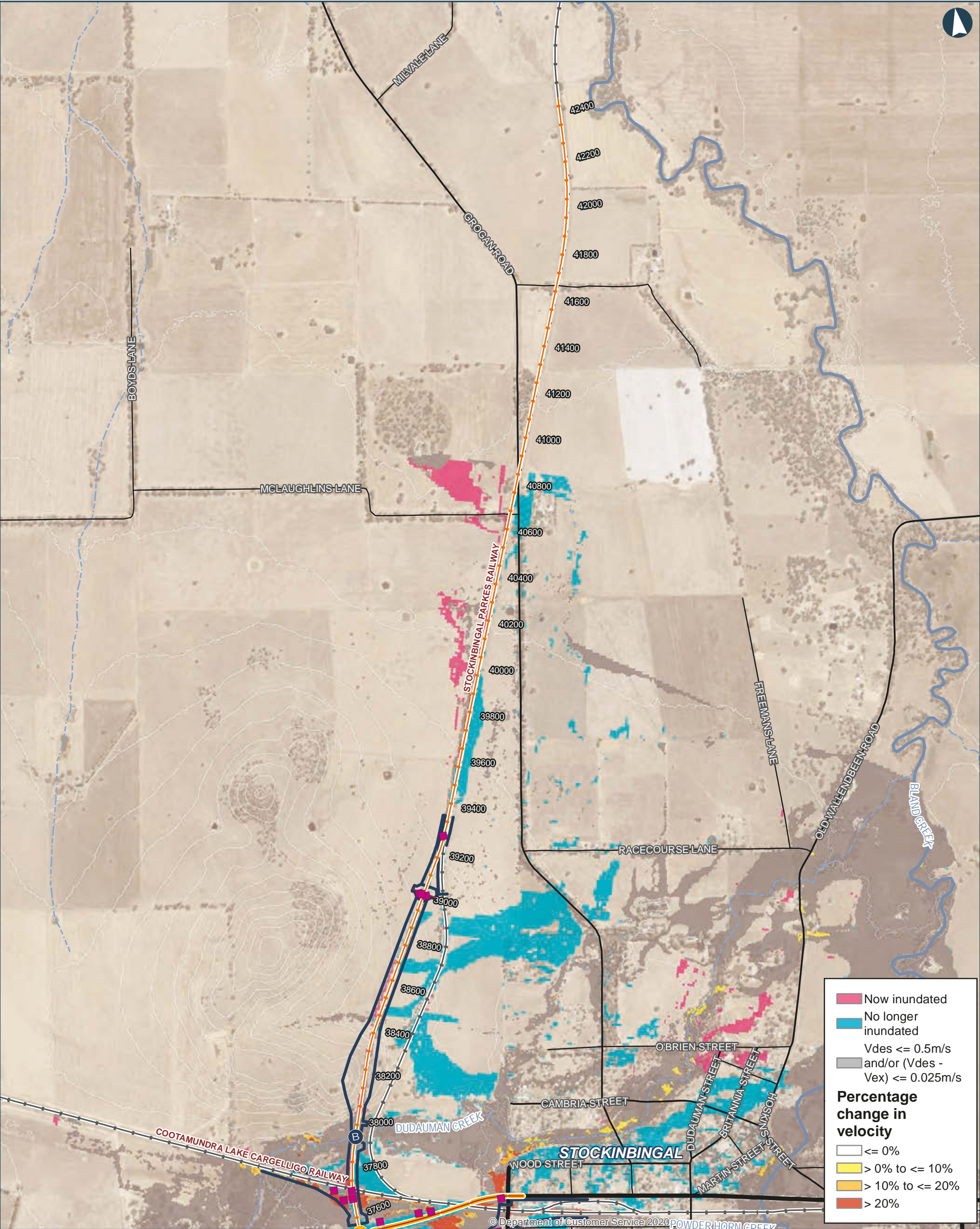
— Local road

— Sub-arterial road

— Arterial road



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 2% AEP Percentage Change in Velocity

0 200 400 Metres

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

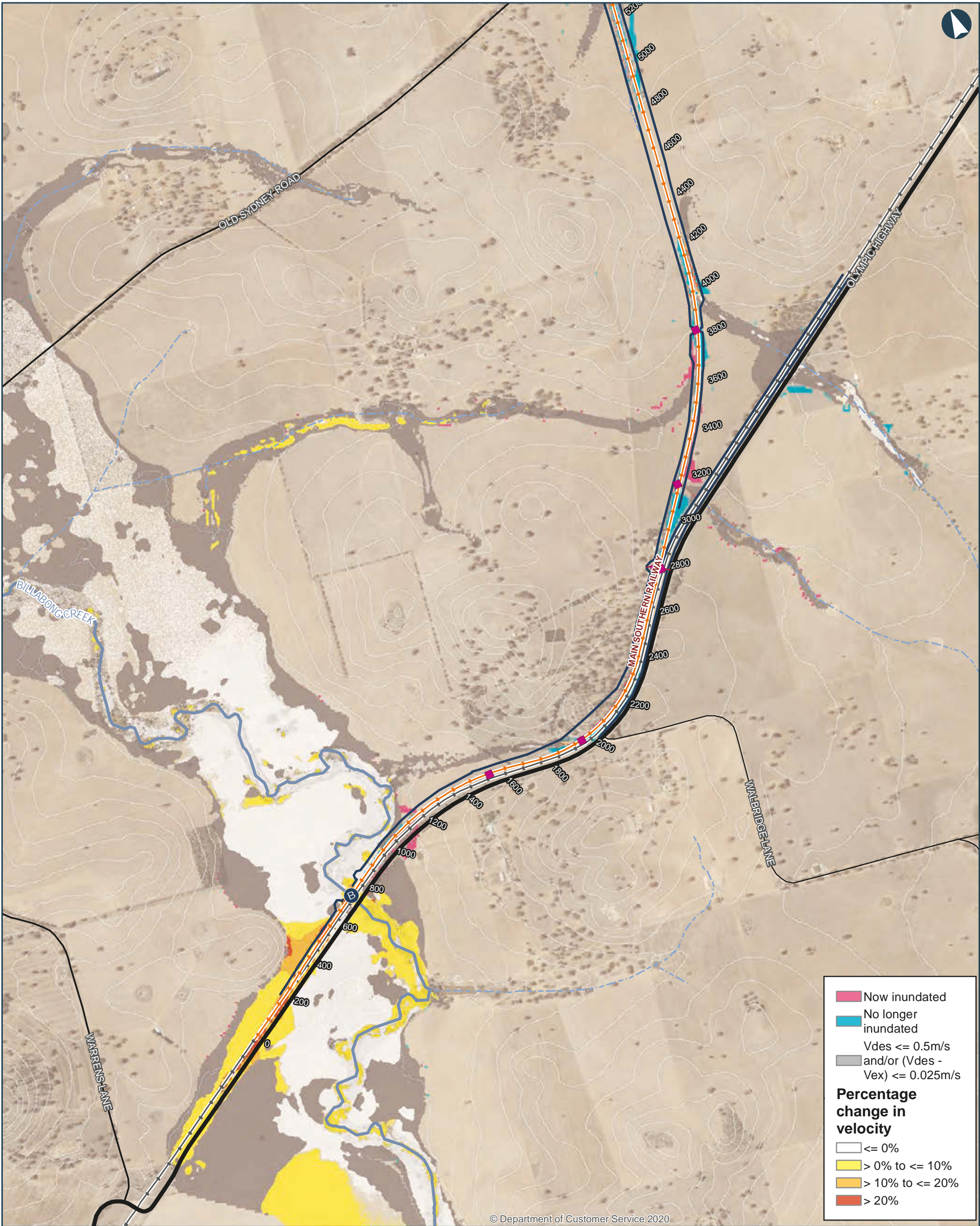
Local road

Sub-arterial road

Arterial road

INLAND RAIL **ARTC**

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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

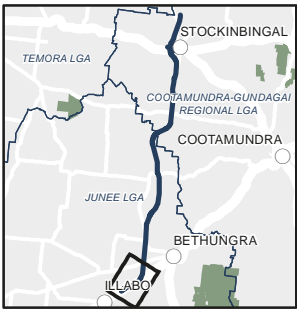
Map 1 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55
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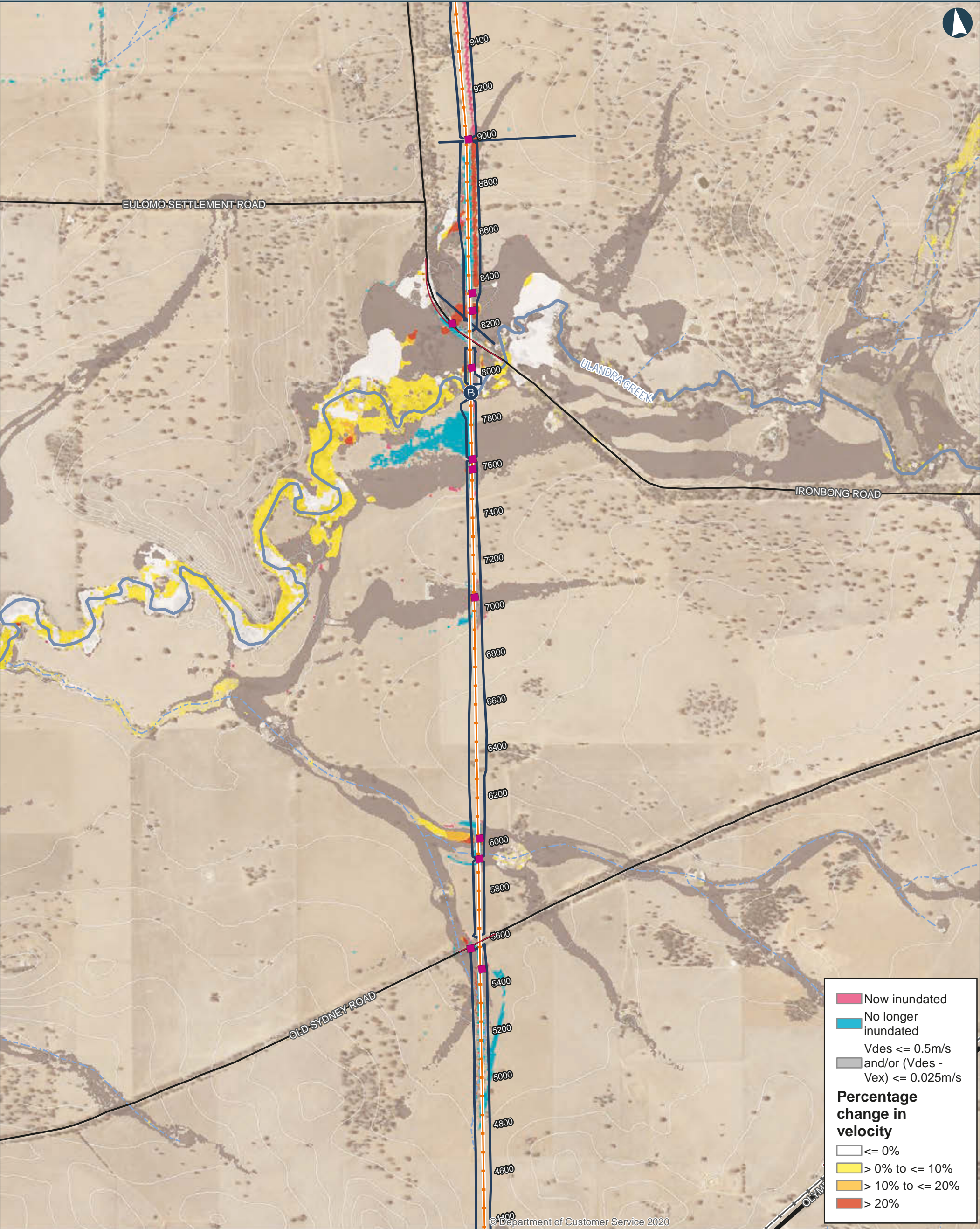
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
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- Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

0 200 400 Metres

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— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

— Culvert

— 5m Contours

— Existing Rail

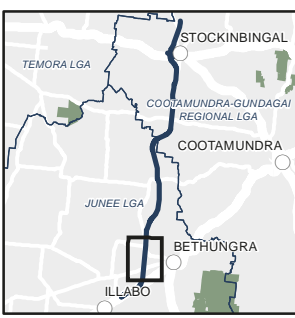
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

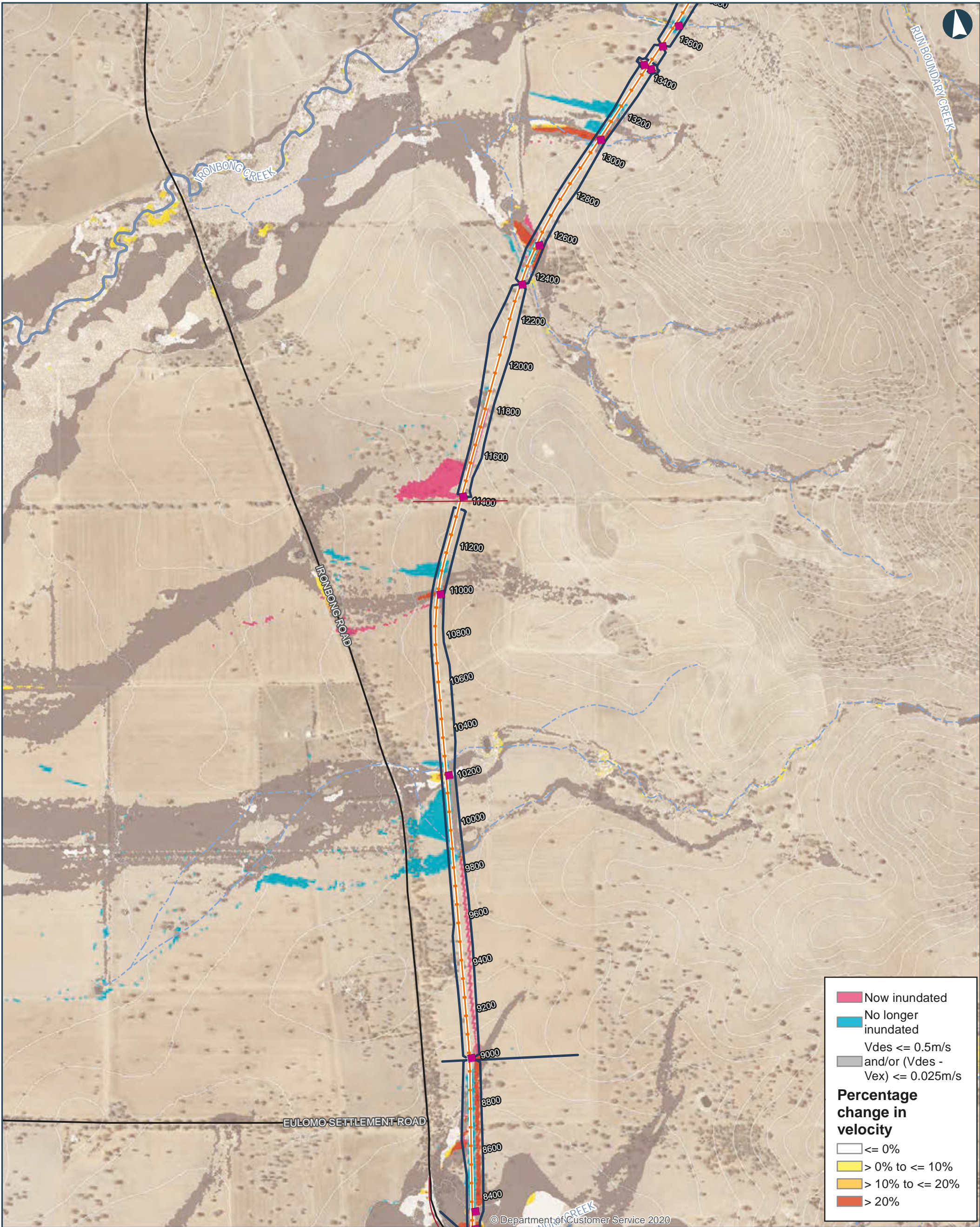
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

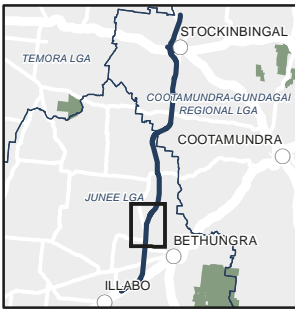
Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55
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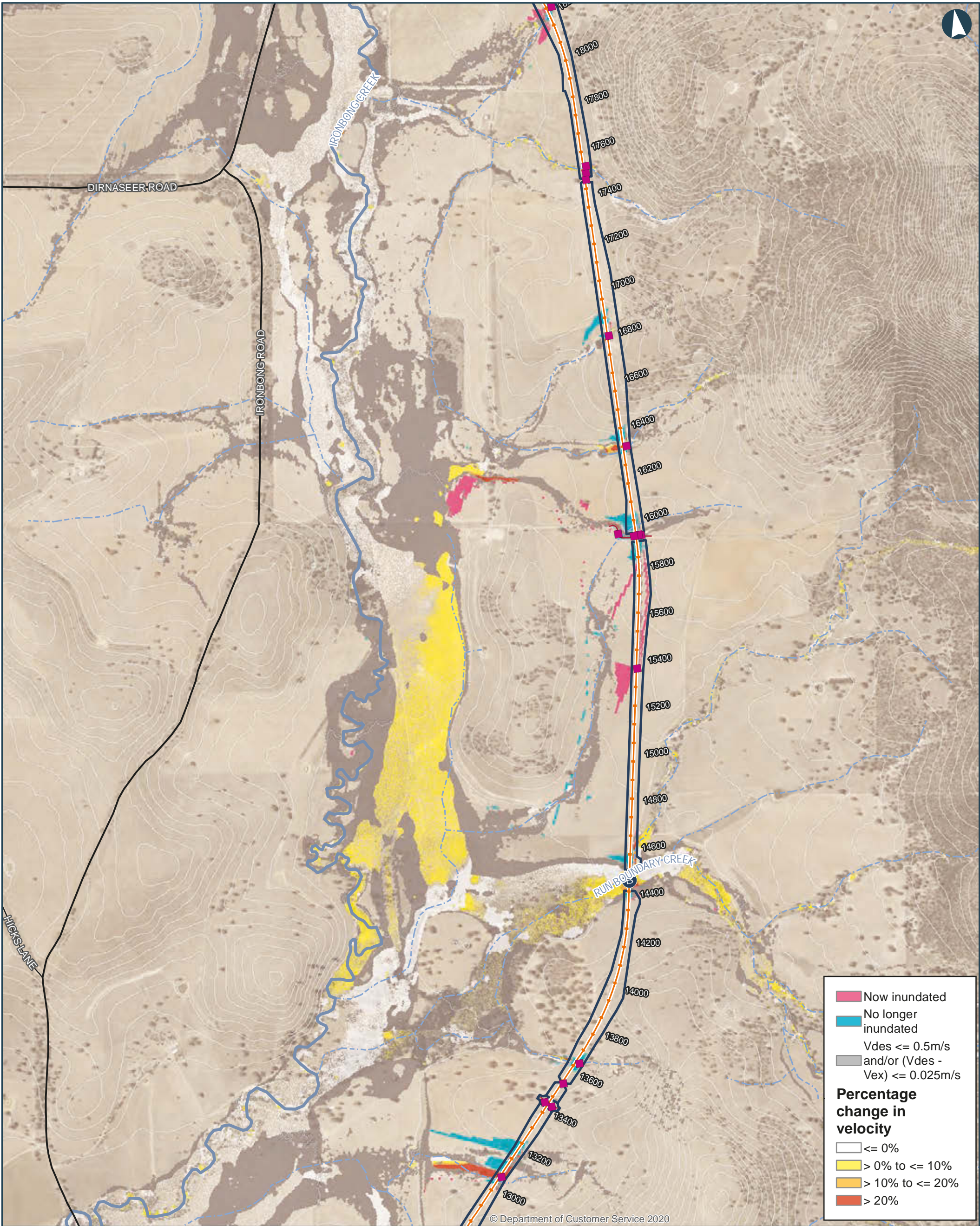
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
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- Major watercourse (Strahler SO 4-6)
- Local road
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0 200 400 Metres

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

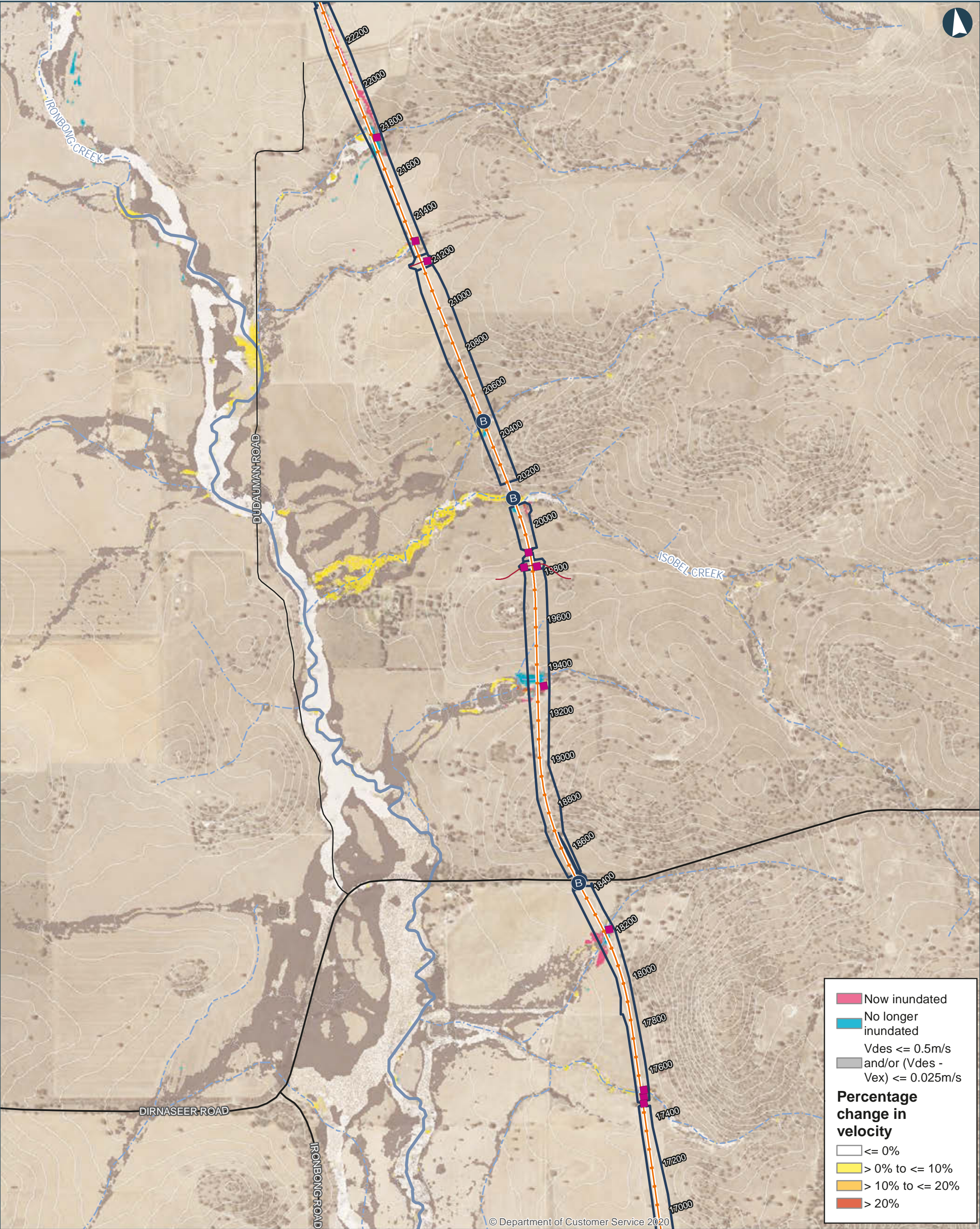
Sub-arterial road

Arterial road

INLAND RAIL

ARTC

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.



ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

0 200 400 Metres

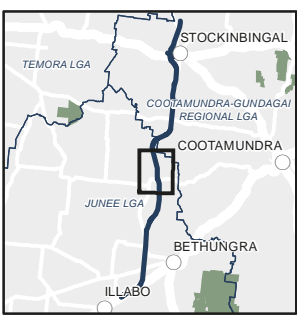
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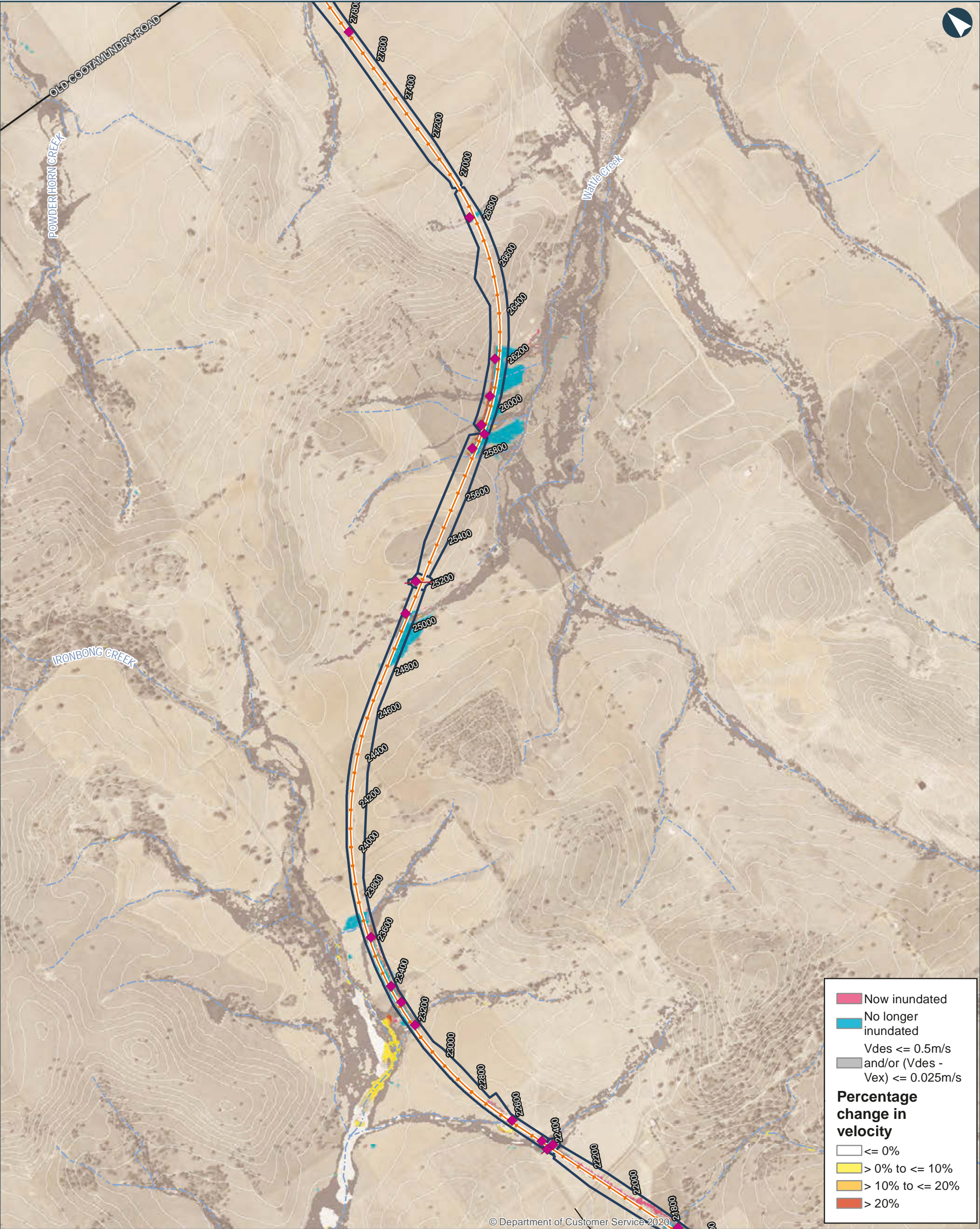
Paper: A3
Scale: 1:15,000

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ILLABO TO STOCKINBINAL 1% AEP Percentage Change in Velocity

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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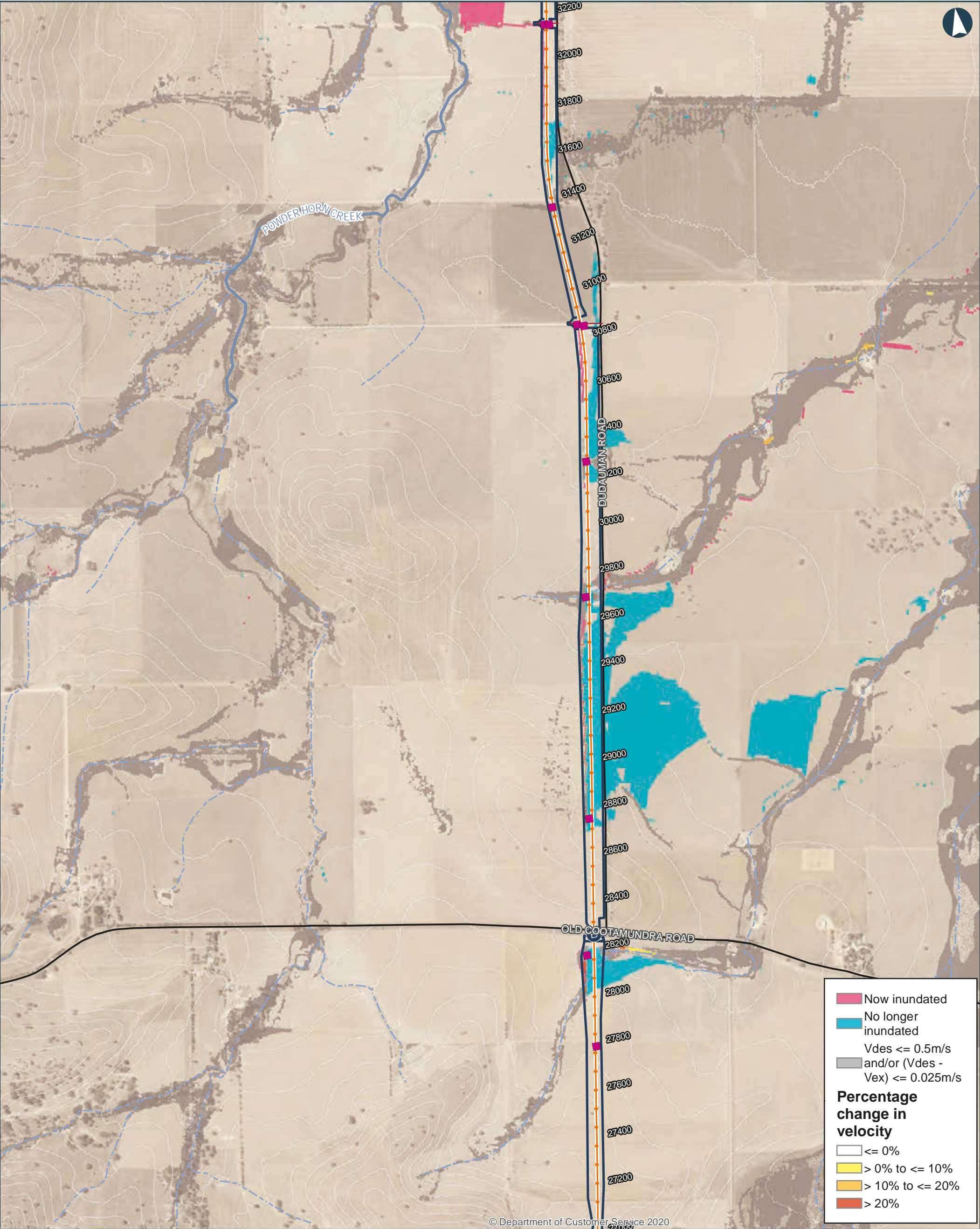
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

— Proposal site
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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

Map 7 of 9

0 200 400 Metres

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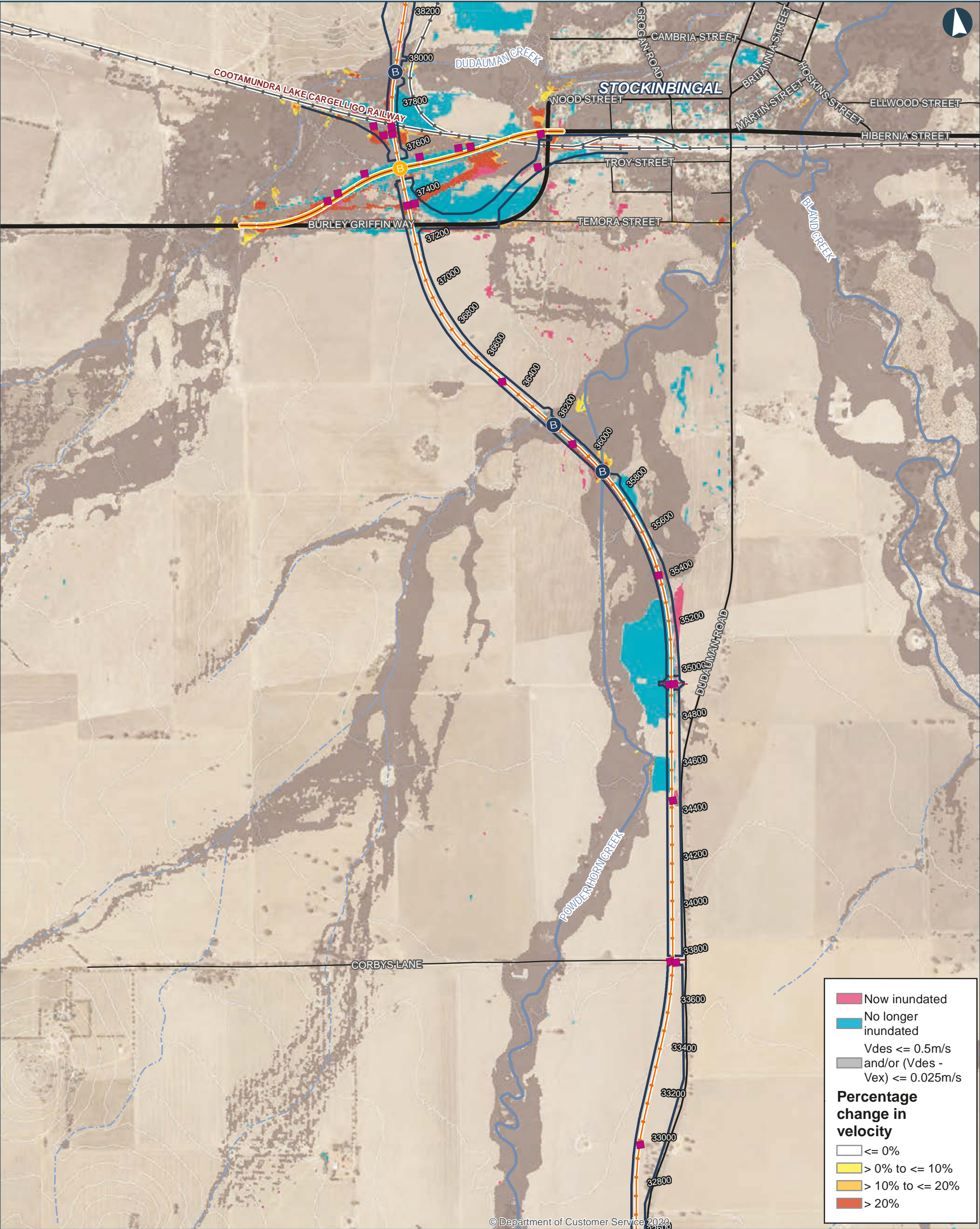
Paper: A3
Scale: 1:15,000

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ILLABO TO STOCKINBINGAL 1% AEP Percentage Change in Velocity

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Data Sources: IRDJV, ARTC, LPI

40950

— Proposal site

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— Burley Griffin Way Realignment

B Overbridge

B Underbridge

■ Culvert

— 5m Contours

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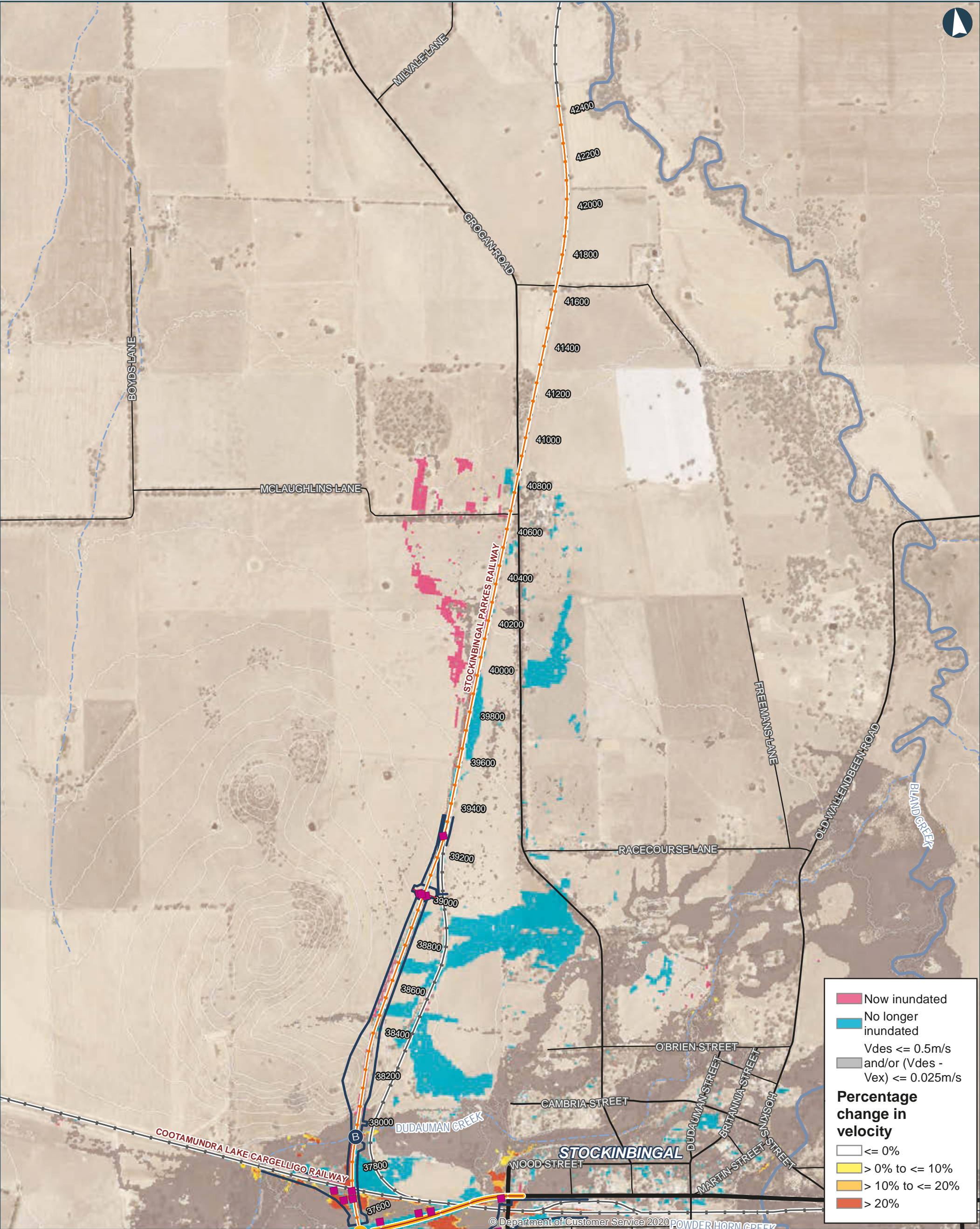
— Local road

— Sub-arterial road

— Arterial road

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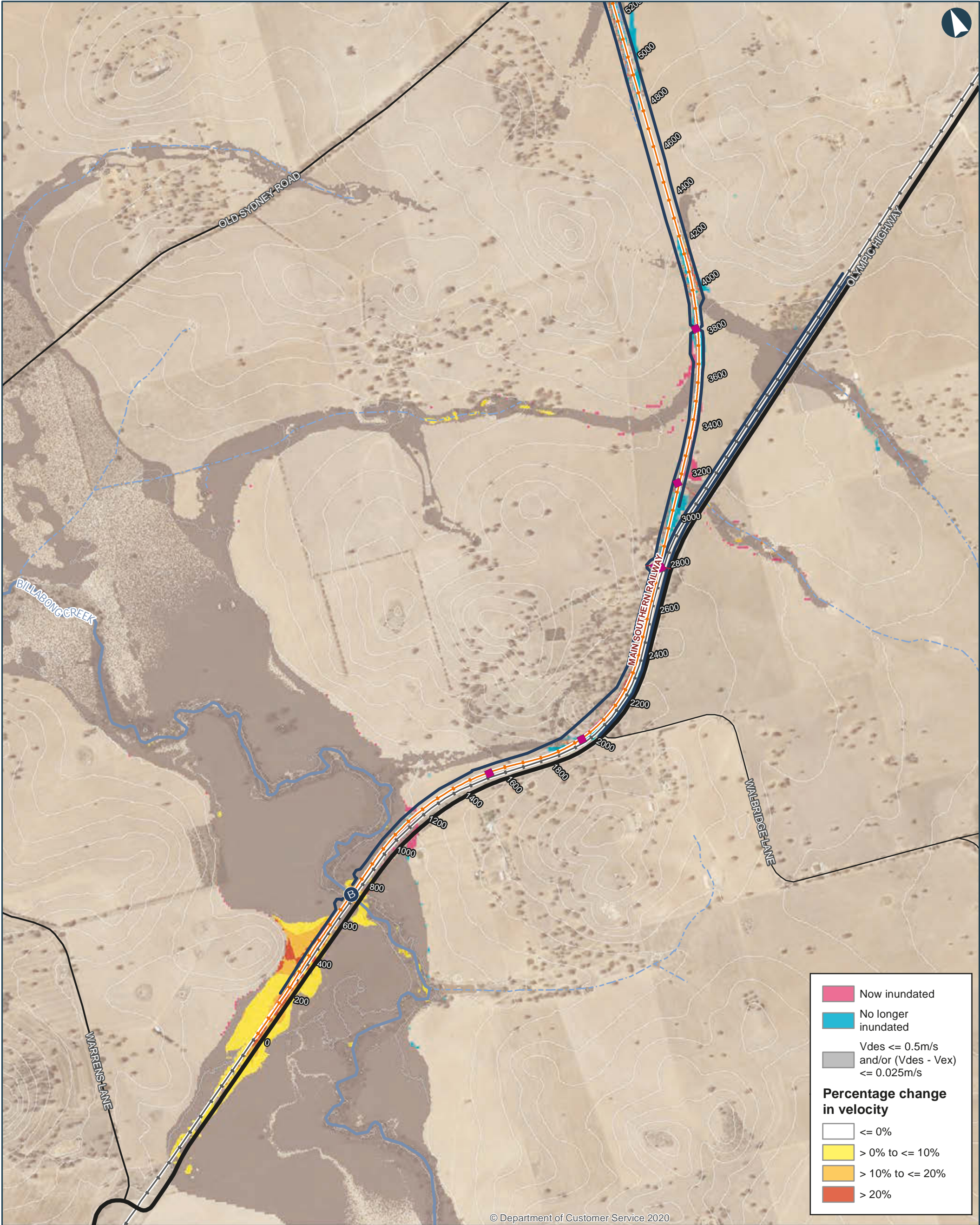
— Local road

— Sub-arterial road

— Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 1 of 9

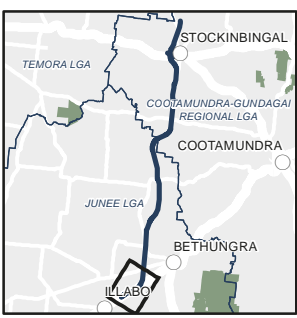
0 200 400 Metres

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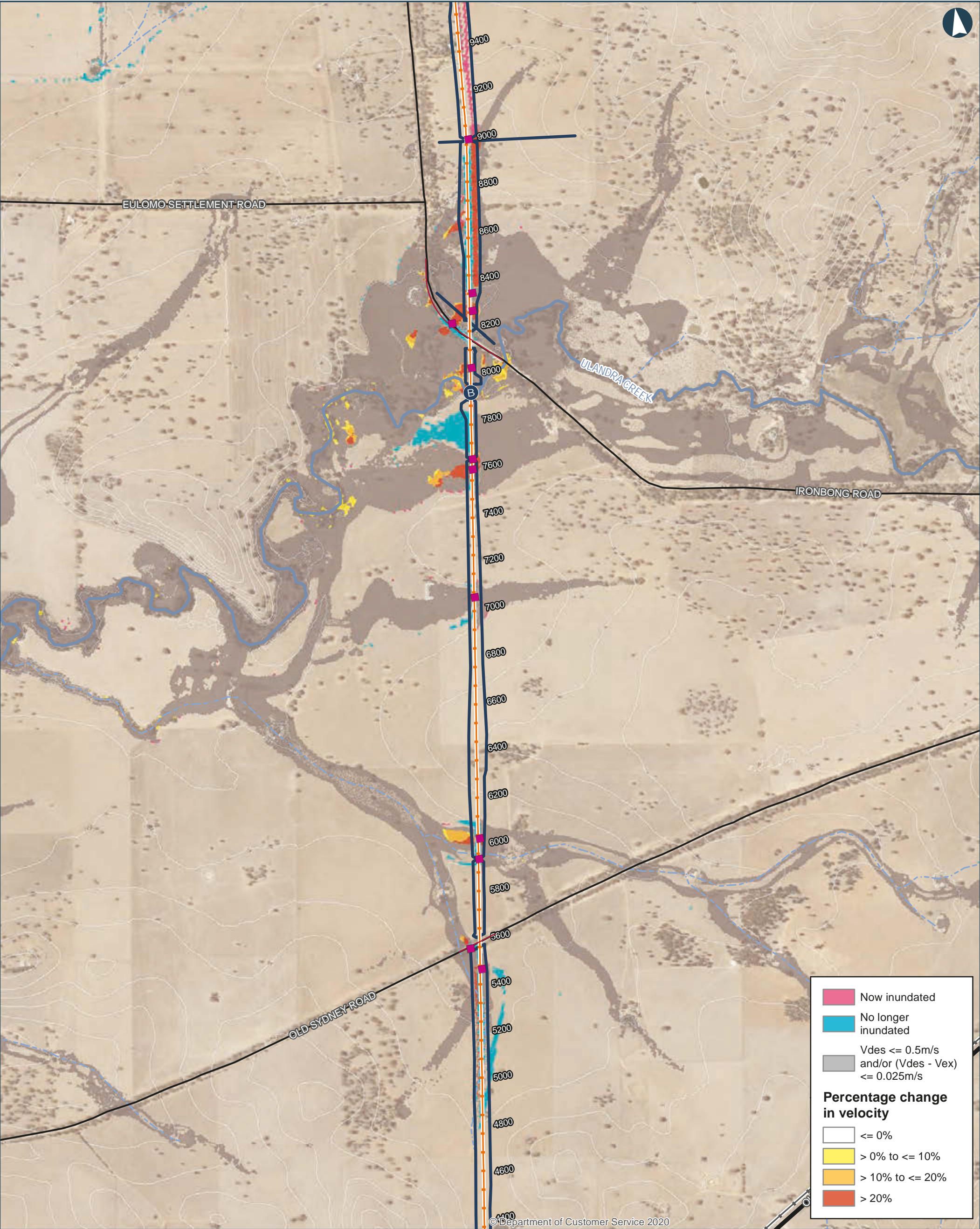
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
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- Underbridge
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- 5m Contours
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- Local road
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- Arterial road



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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 2 of 9

0 200 400 Metres

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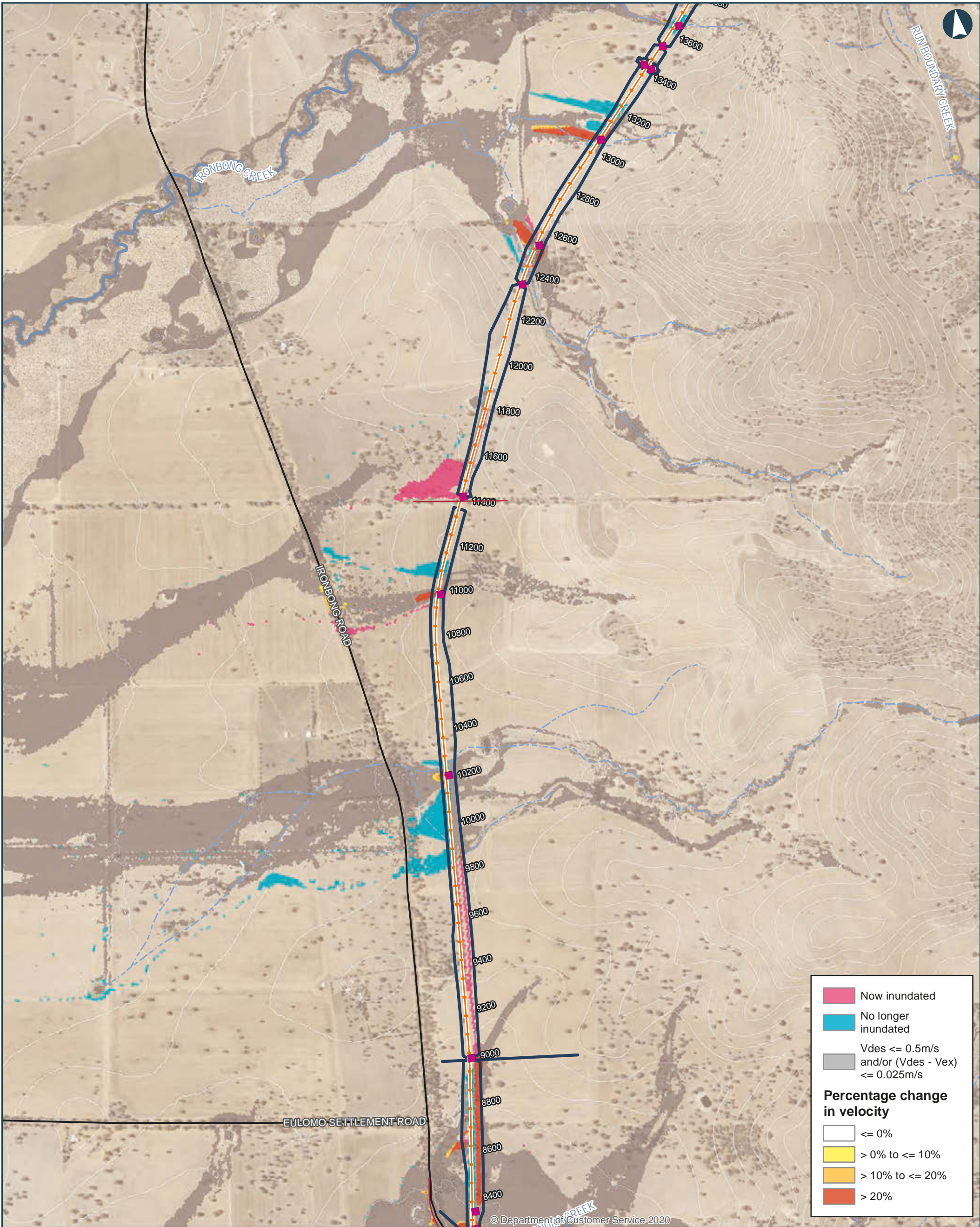
Paper: A3
Scale: 1:15,000

- Proposal site
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- Overbridge
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- Culvert
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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity Map 3 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

Paper: A3
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— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

○ Overbridge

○ Underbridge

■ Culvert

— 5m Contours

— Existing Rail

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— Major watercourse (Strahler SO 4-6)

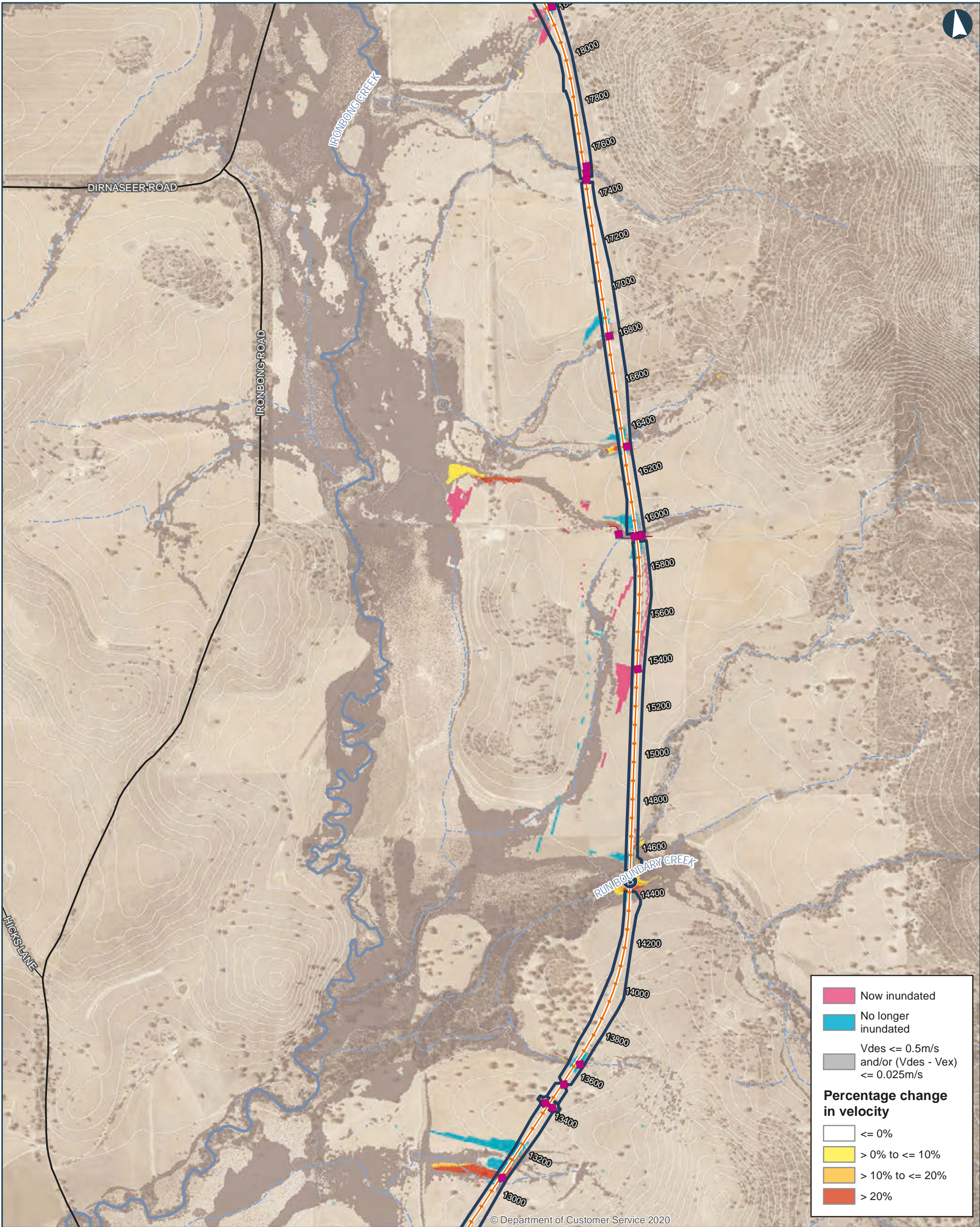
— Local road

— Sub-arterial road

— Arterial road

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0 200 400 Metres

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Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

ILLABO

STOCKINBINGAL

TEMPORA LGA

COOTAMUNDRA-GUNDAGAI REGIONAL LGA

COOTAMUNDRA

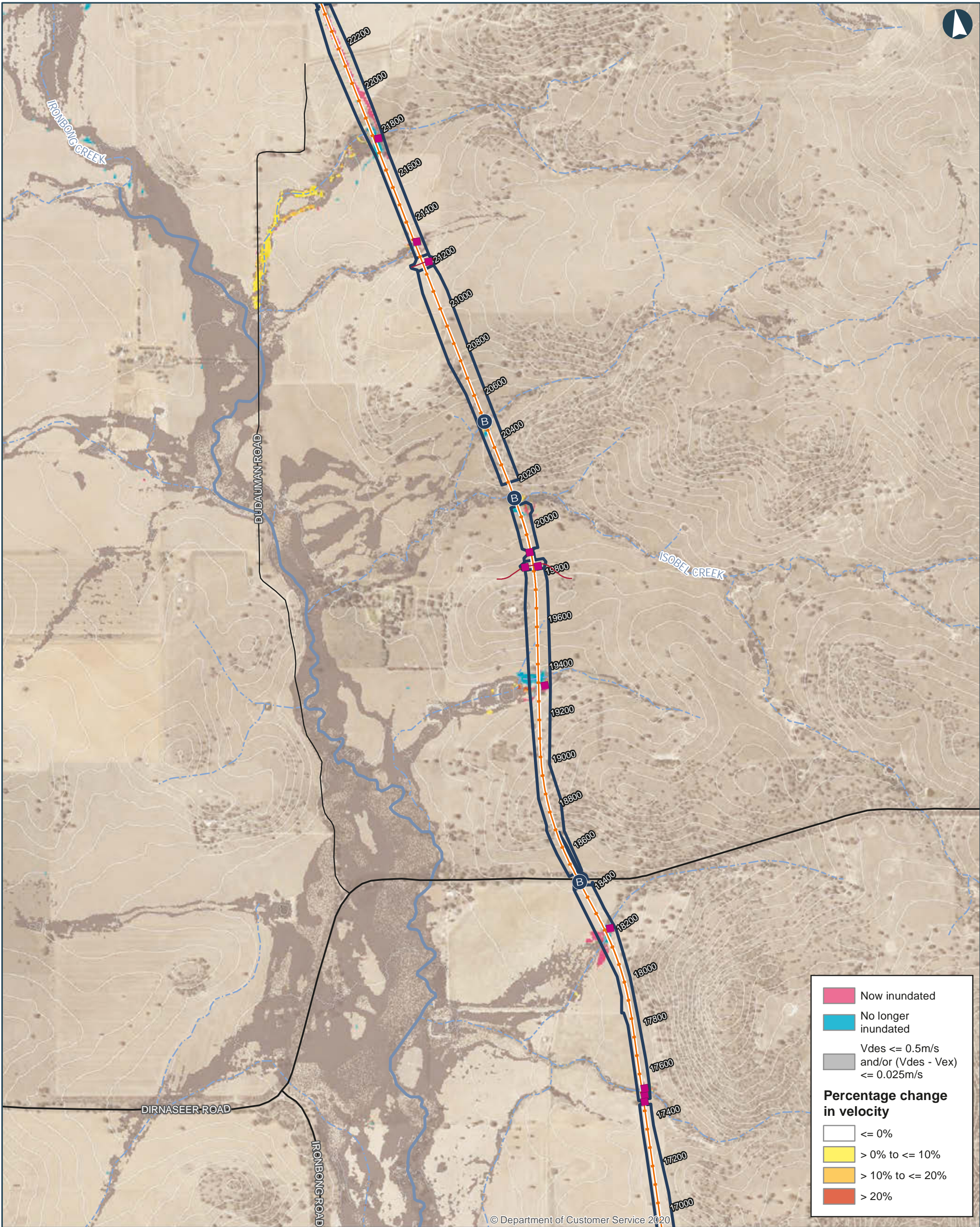
JUNEE LGA

BETHUNGRA

INLAND RAIL

ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 5 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

Proposal site

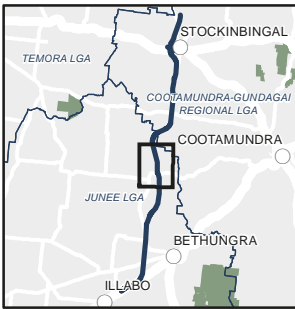
Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Overbridge

Underbridge

Culvert



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ILLABO TO STOCKINBINAL 1% AEP Climate Change Percentage Change in Velocity

Map 6 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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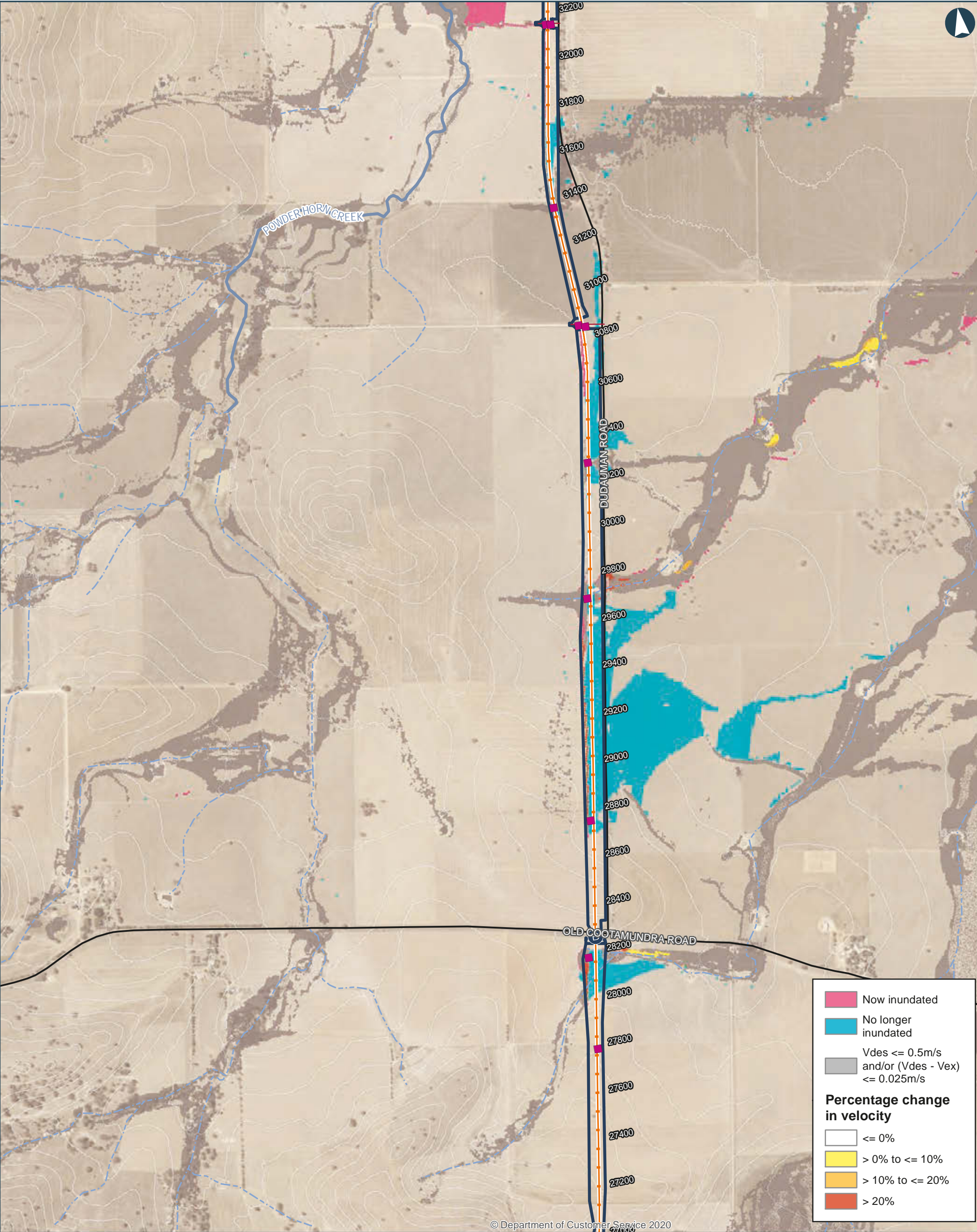
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
- Chainage (distance in metres from southern limit of the proposal)
- New track/track upgrade
- Overbridge
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- Culvert
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
- Major watercourse (Strahler SO 4-6)
- Local road
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- Arterial road



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Now inundated

No longer inundated

Vdes <= 0.5m/s
and/or (Vdes - Vex)
<= 0.025m/s

Percentage change in velocity

<= 0%

> 0% to <= 10%

> 10% to <= 20%

> 20%

ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 7 of 9

0200400

Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Paper: A3

Author: IRDJV

Scale: 1:15,000

Data Sources: IRDJV, ARTC, LPI

— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

B

 Overbridge

B

 Underbridge

■

 Culvert

— 5m Contours

— Existing Rail

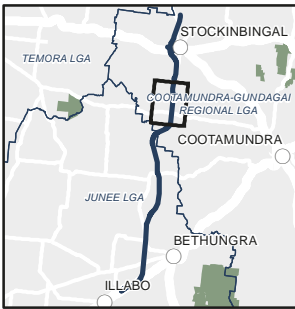
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

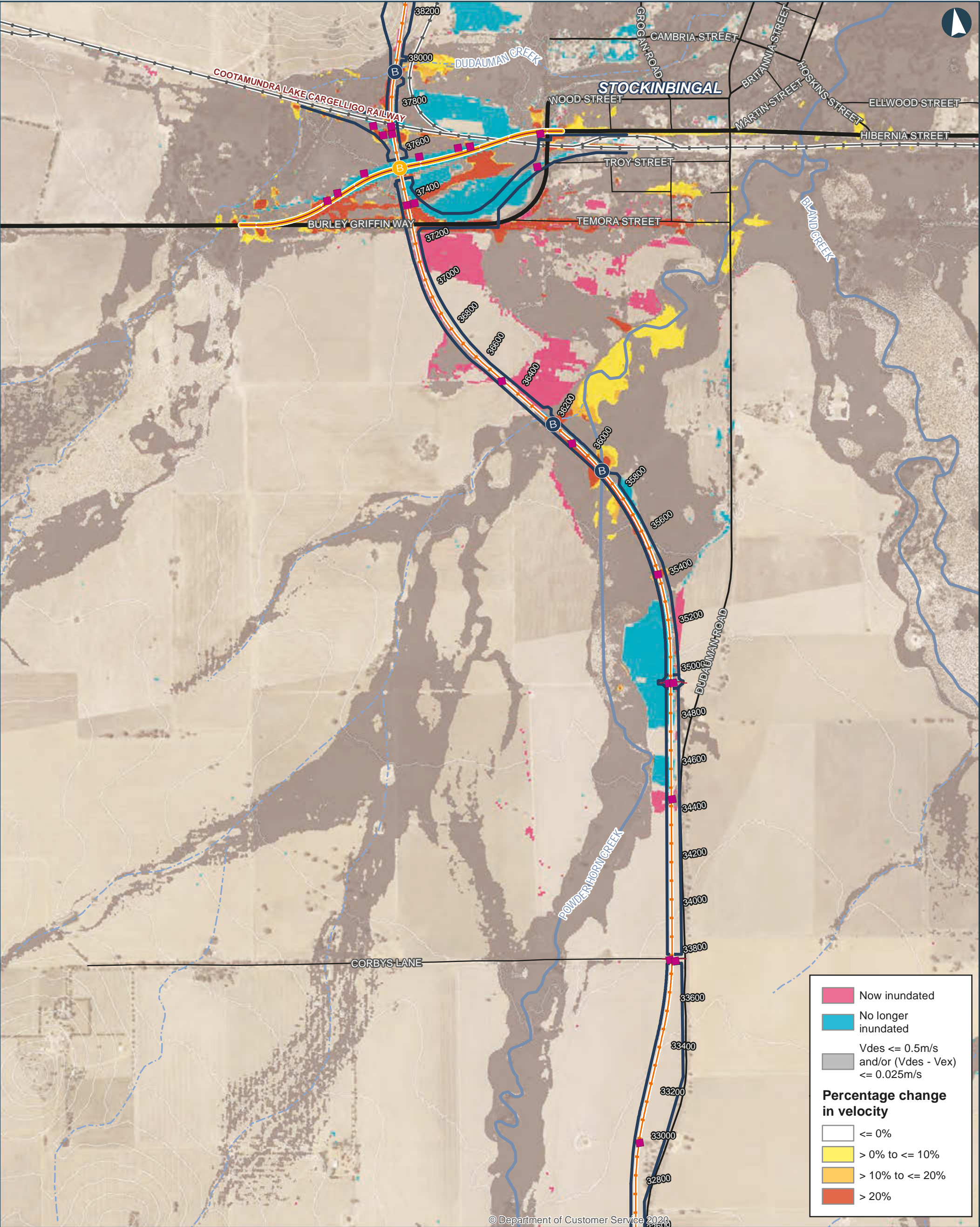
— Sub-arterial road

— Arterial road



INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

Map 8 of 9

0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022

Author: IRDJV

Data Sources: IRDJV, ARTC, LPI

Paper: A3

Scale: 1:15,000

— Proposal site

40950 Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Burley Griffin Way Realignment

B

 Overbridge

B

 Underbridge

■ Culvert

— 5m Contours

— Existing Rail

— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

— Local road

— Sub-arterial road

— Arterial road

STOCKINBINGAL

ILLABO

COOTAMUNDRA-GUNDAGUI REGIONAL LGA

JUNEE LGA

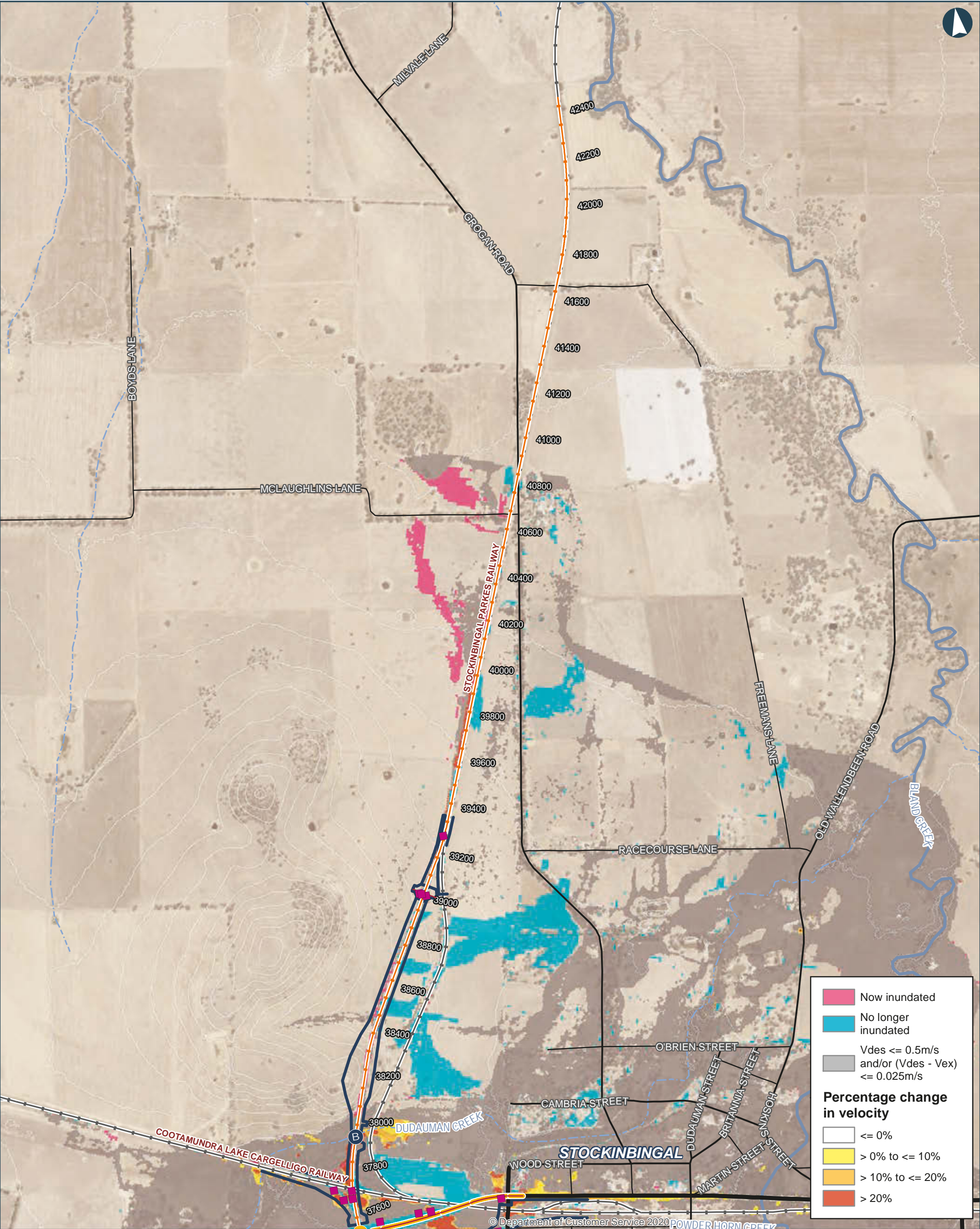
BETHUNGRA

INLAND RAIL

ARTC

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G:\Projects\PS108286_ILS\Tasks\220_0118_HYD_HydrologyReportResubmissionMay22\Documents\1AEPCC\220_0118_HYD_1AEPCCVelocityChange_v4.mxd



ILLABO TO STOCKINBINGAL 1% AEP Climate Change Percentage Change in Velocity

0 200 400 Metres

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Underbridge

Culvert

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Existing Rail

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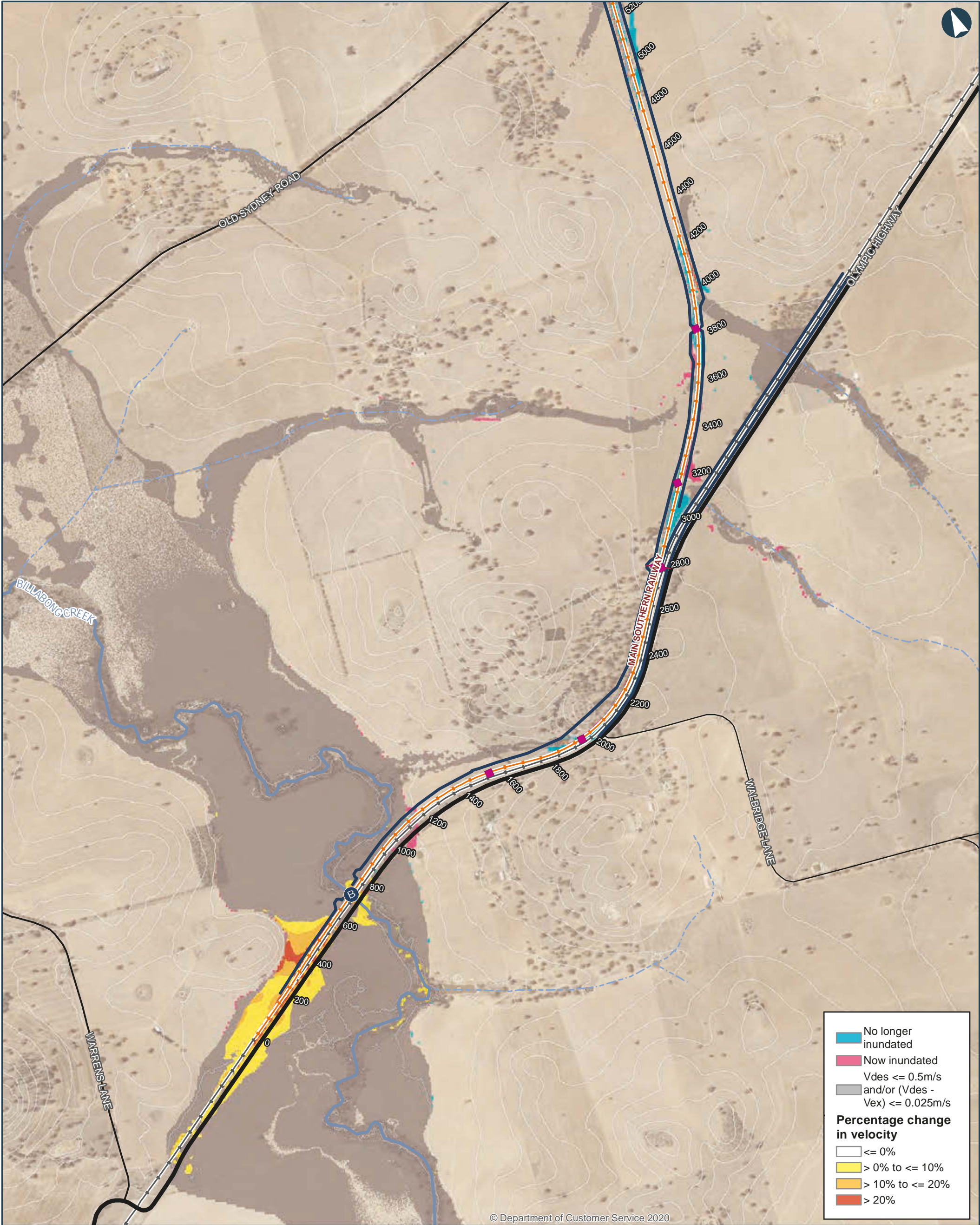
Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

Map 1 of 9

0 200 400 Metres

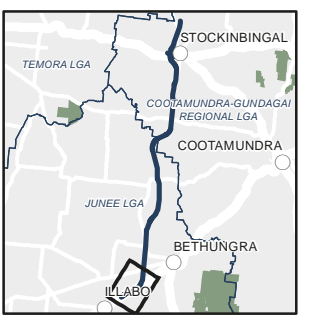
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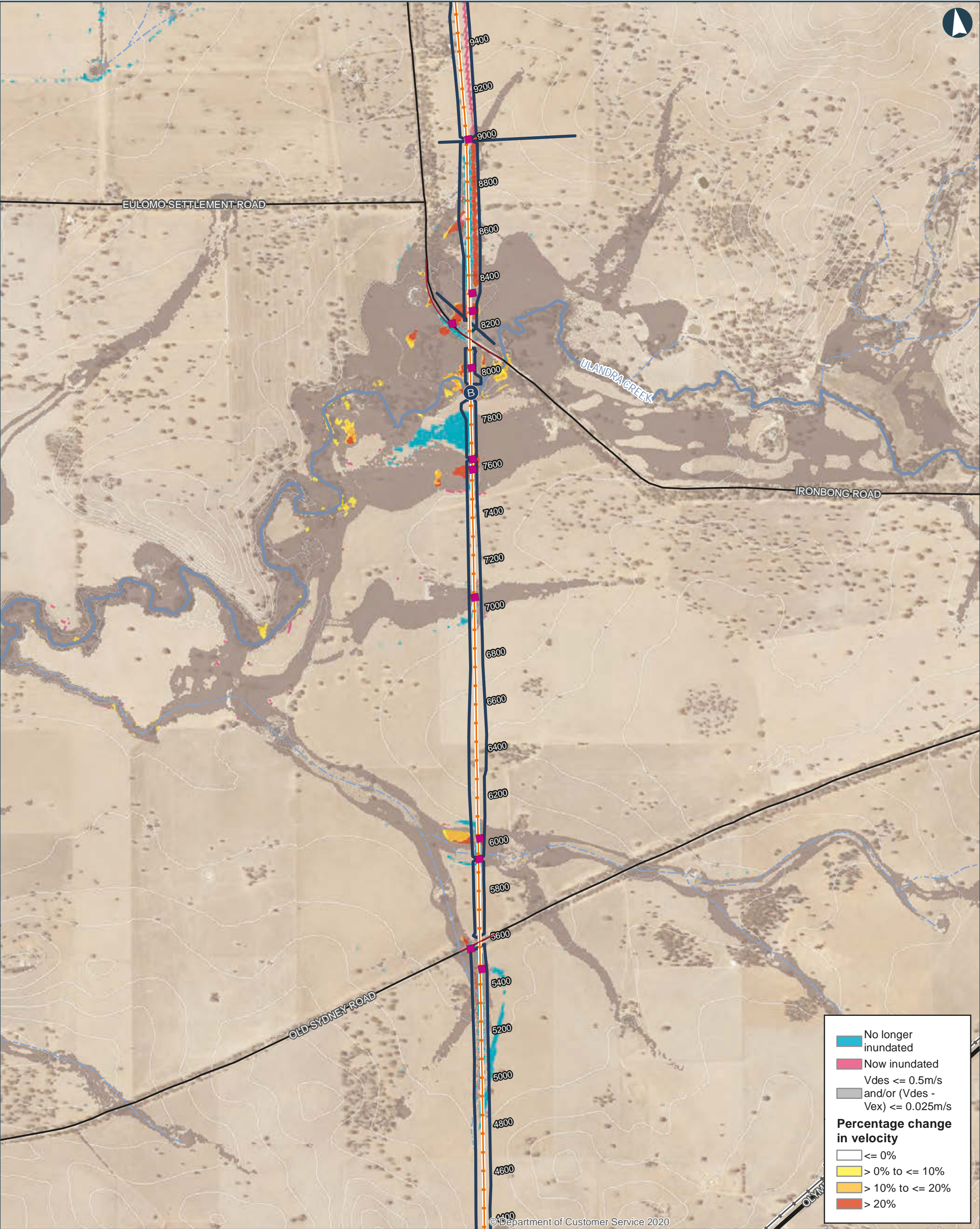
Paper: A3
Scale: 1:15,000

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- Culvert
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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

0 200 400 Metres

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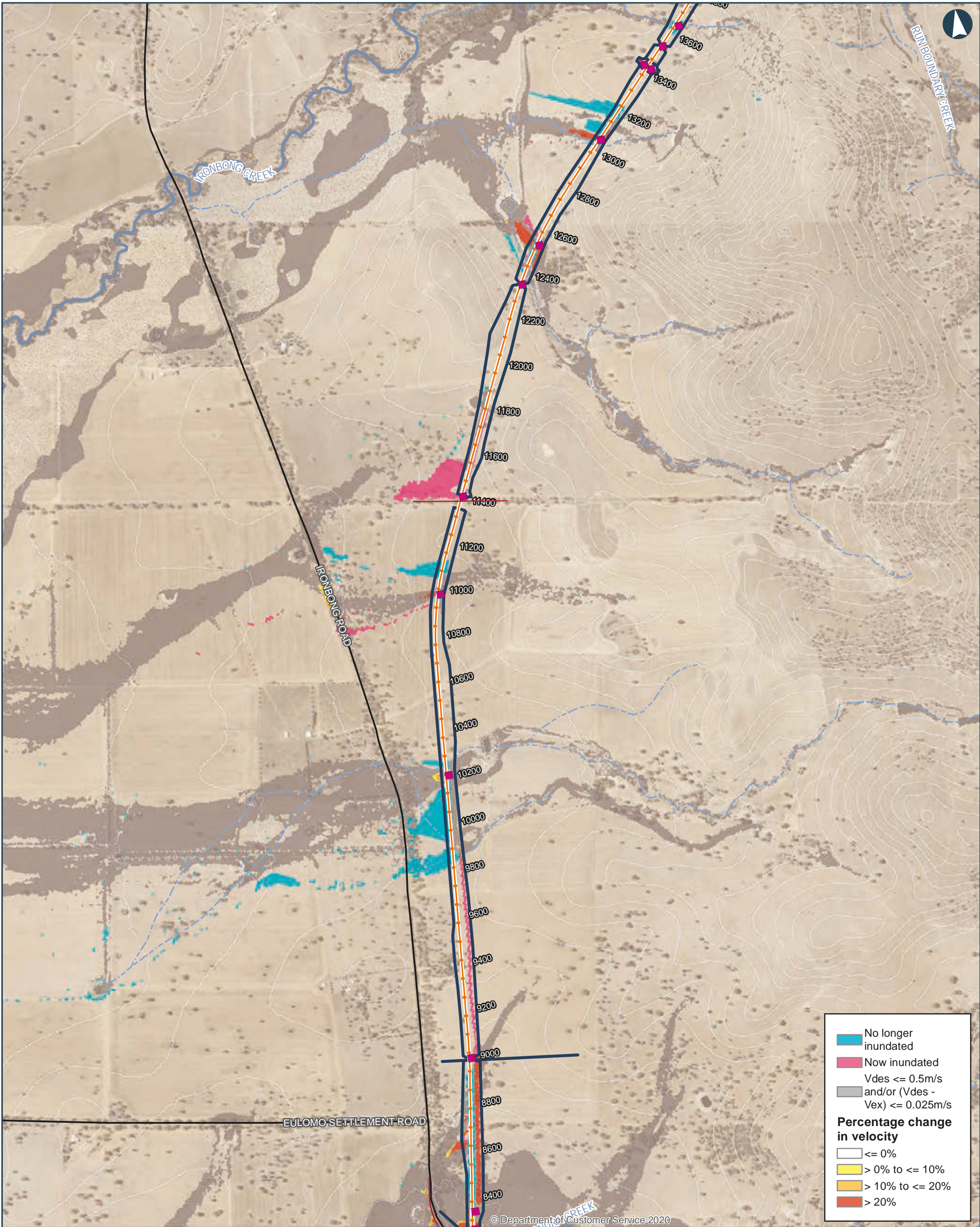
— Local road

— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

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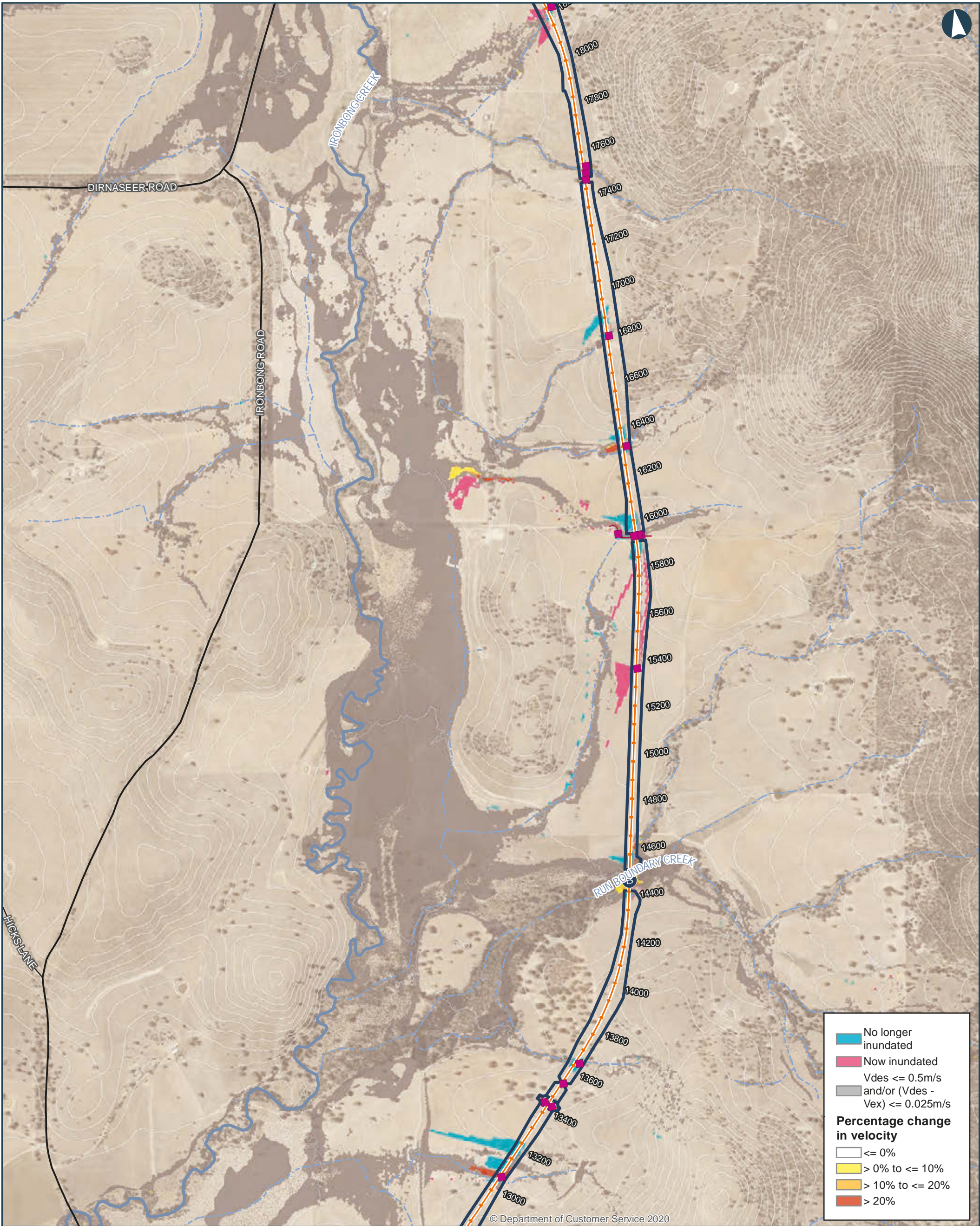
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- New track/track upgrade
- Overbridge
- Underbridge
- Culvert

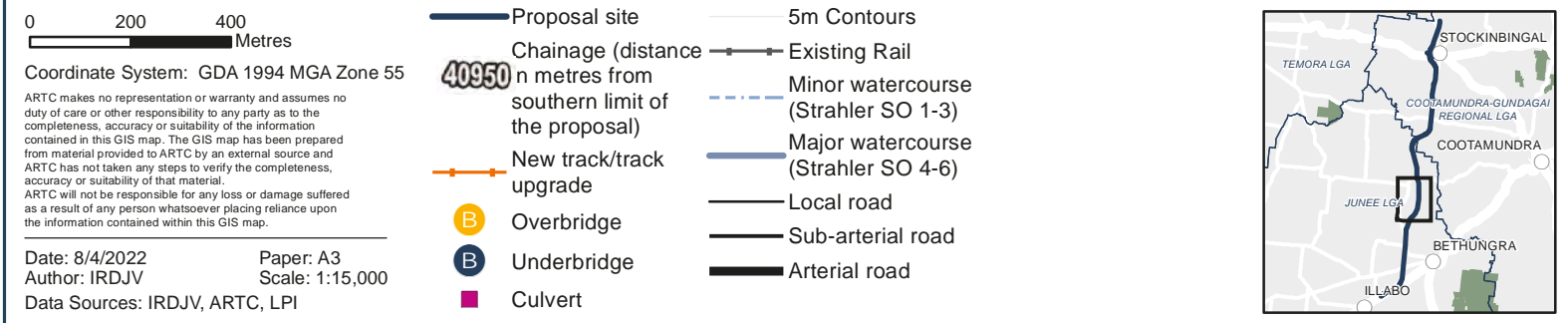
- 5m Contours
- Existing Rail
- Minor watercourse (Strahler SO 1-3)
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- Local road
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- Arterial road

INLAND RAIL **ARTC**

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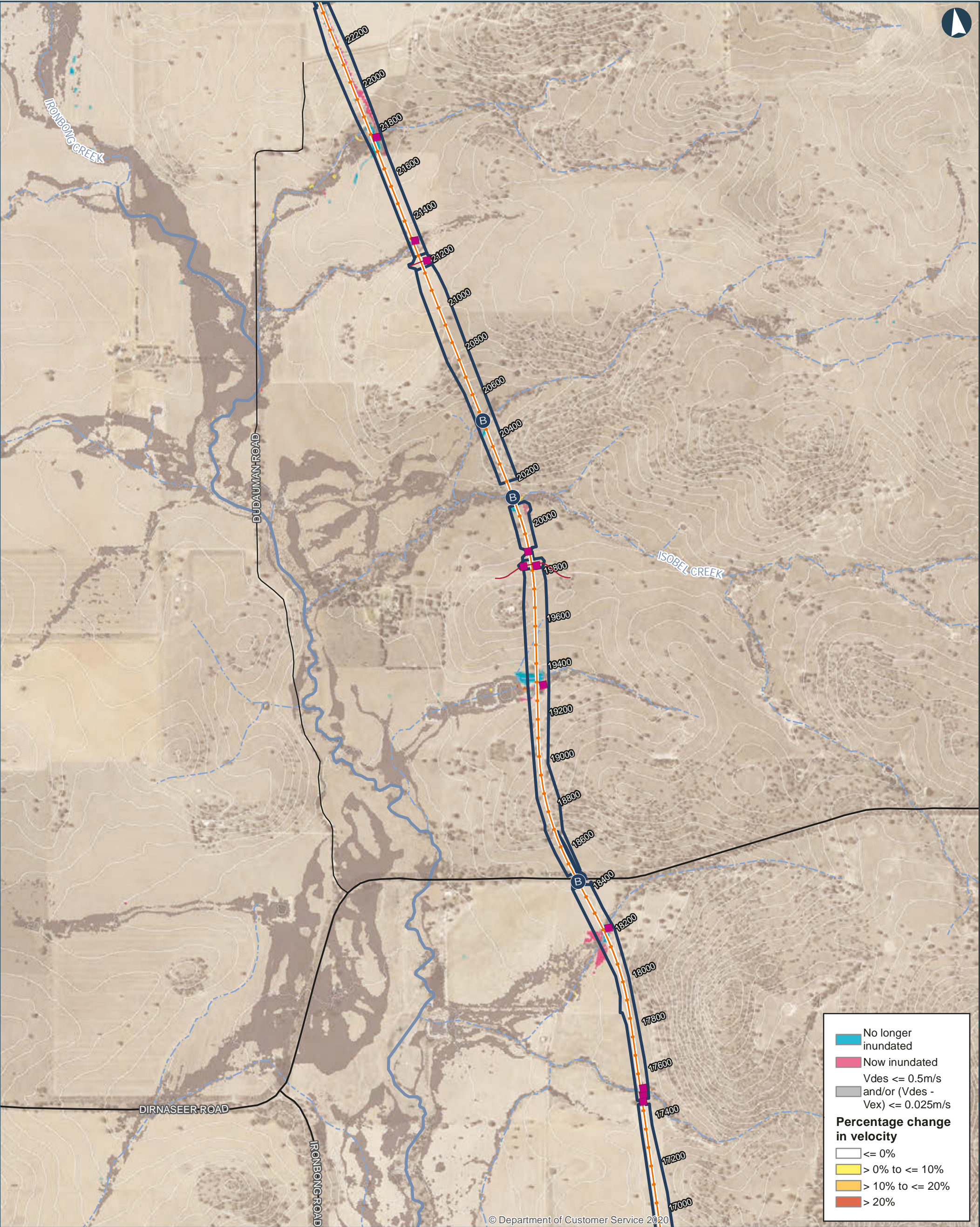


ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

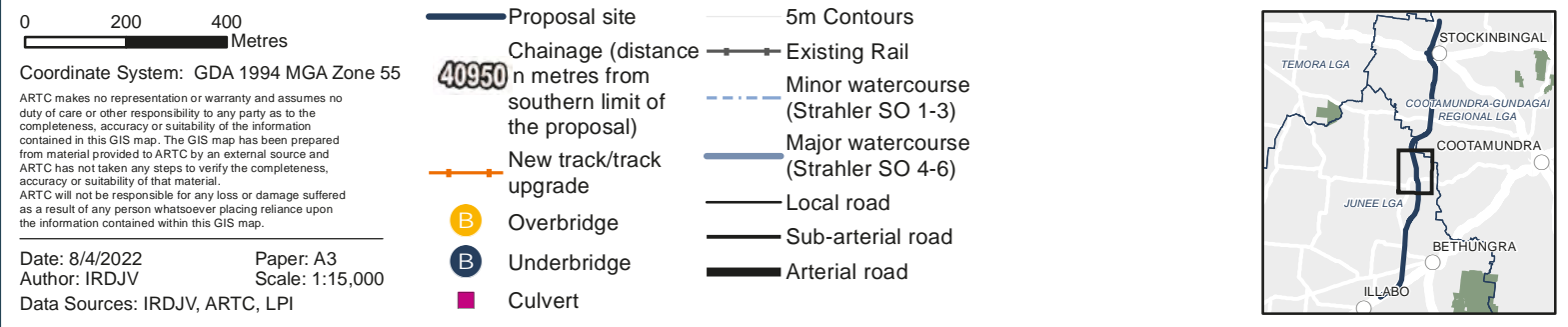


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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity



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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

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— Proposal site

— Chainage (distance in metres from southern limit of the proposal)

— New track/track upgrade

— Overbridge

— Underbridge

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— 5m Contours

— Existing Rail

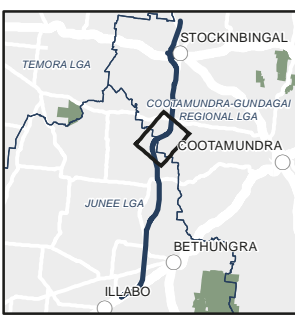
— Minor watercourse (Strahler SO 1-3)

— Major watercourse (Strahler SO 4-6)

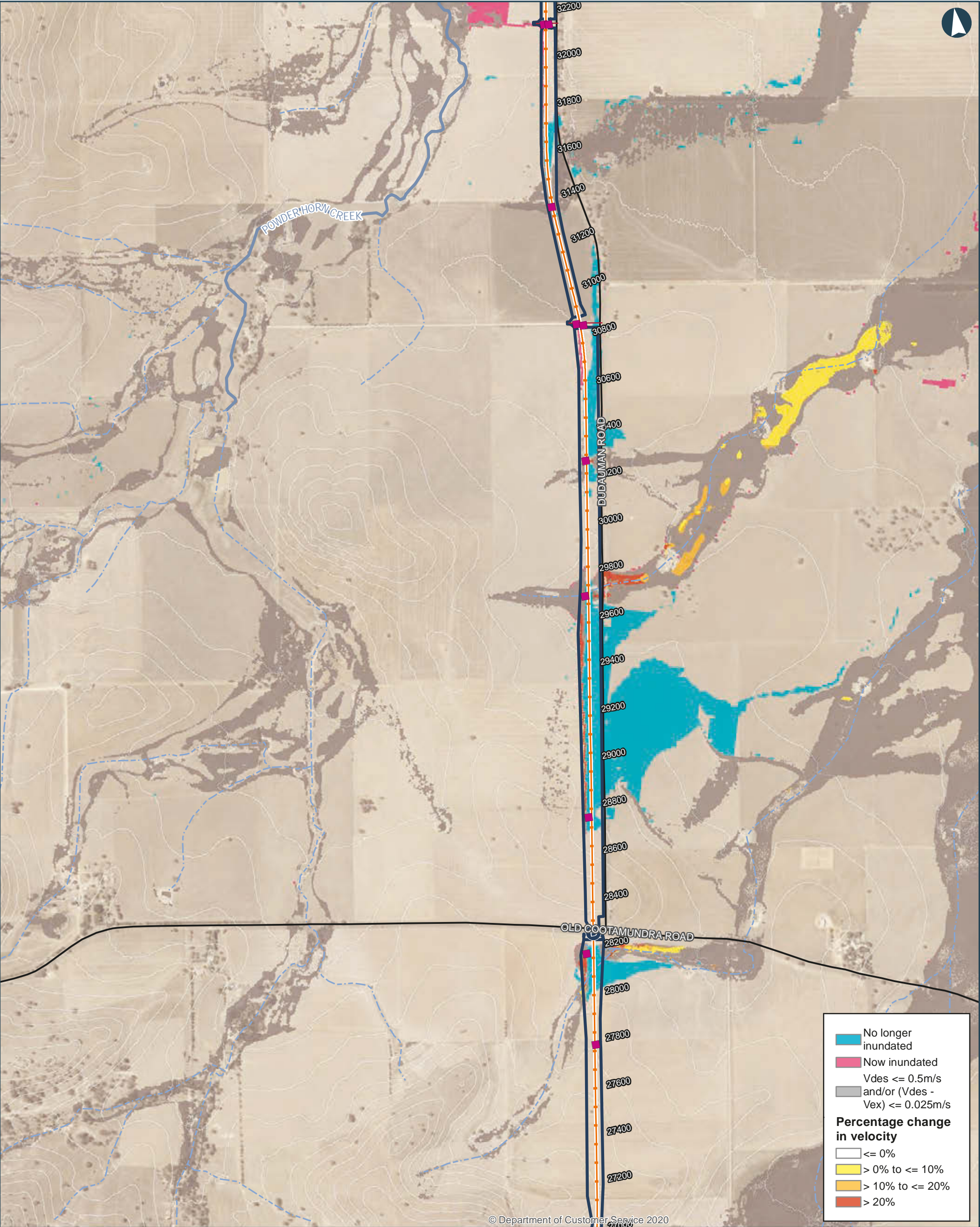
— Local road

— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

Map 7 of 9

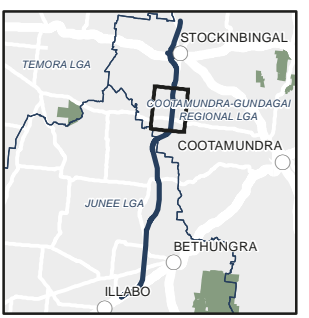
0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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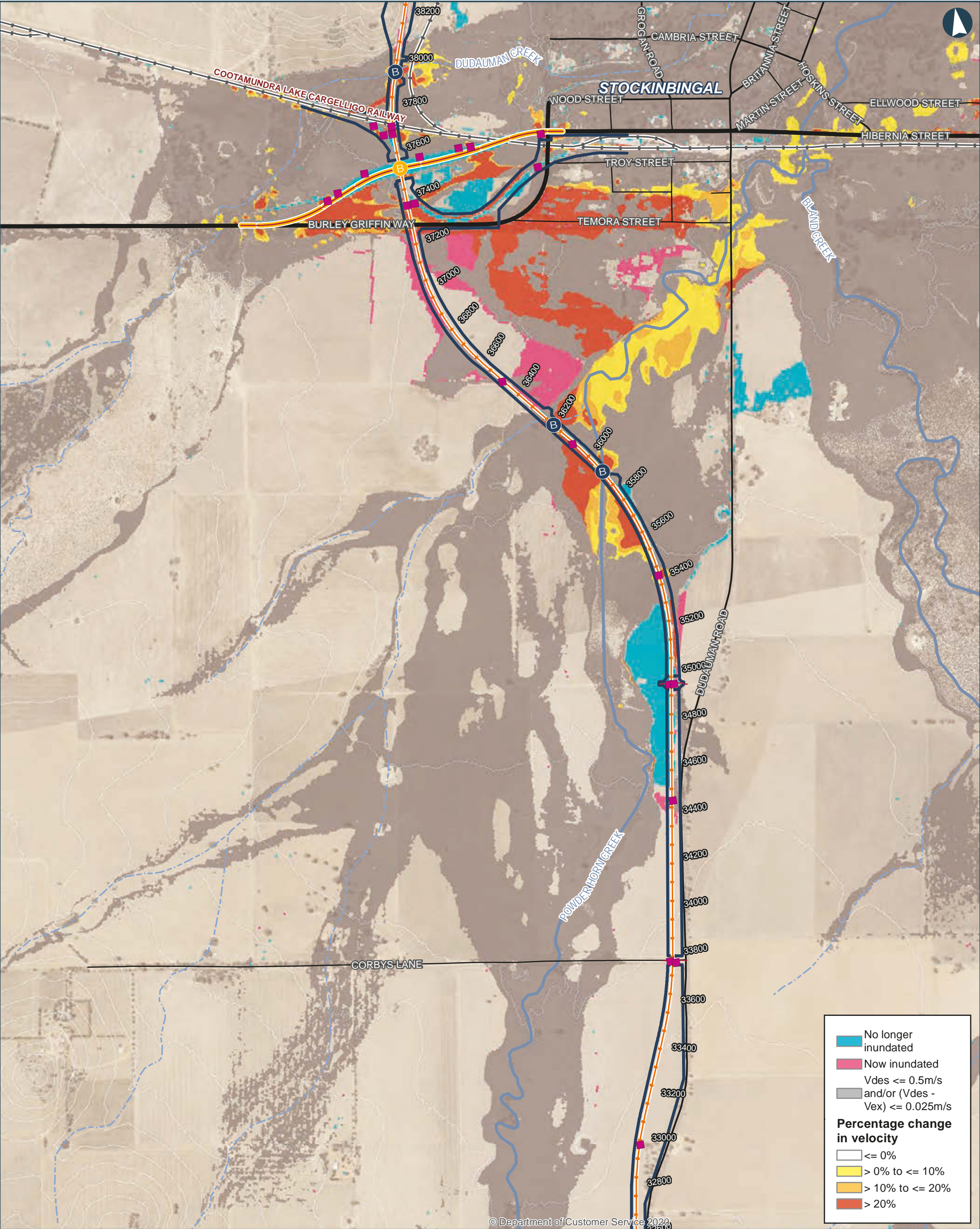
Date: 8/4/2022 Paper: A3
Author: IRDJV Scale: 1:15,000
Data Sources: IRDJV, ARTC, LPI

- Proposal site
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- Overbridge
- Underbridge
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INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

0200400Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

B

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

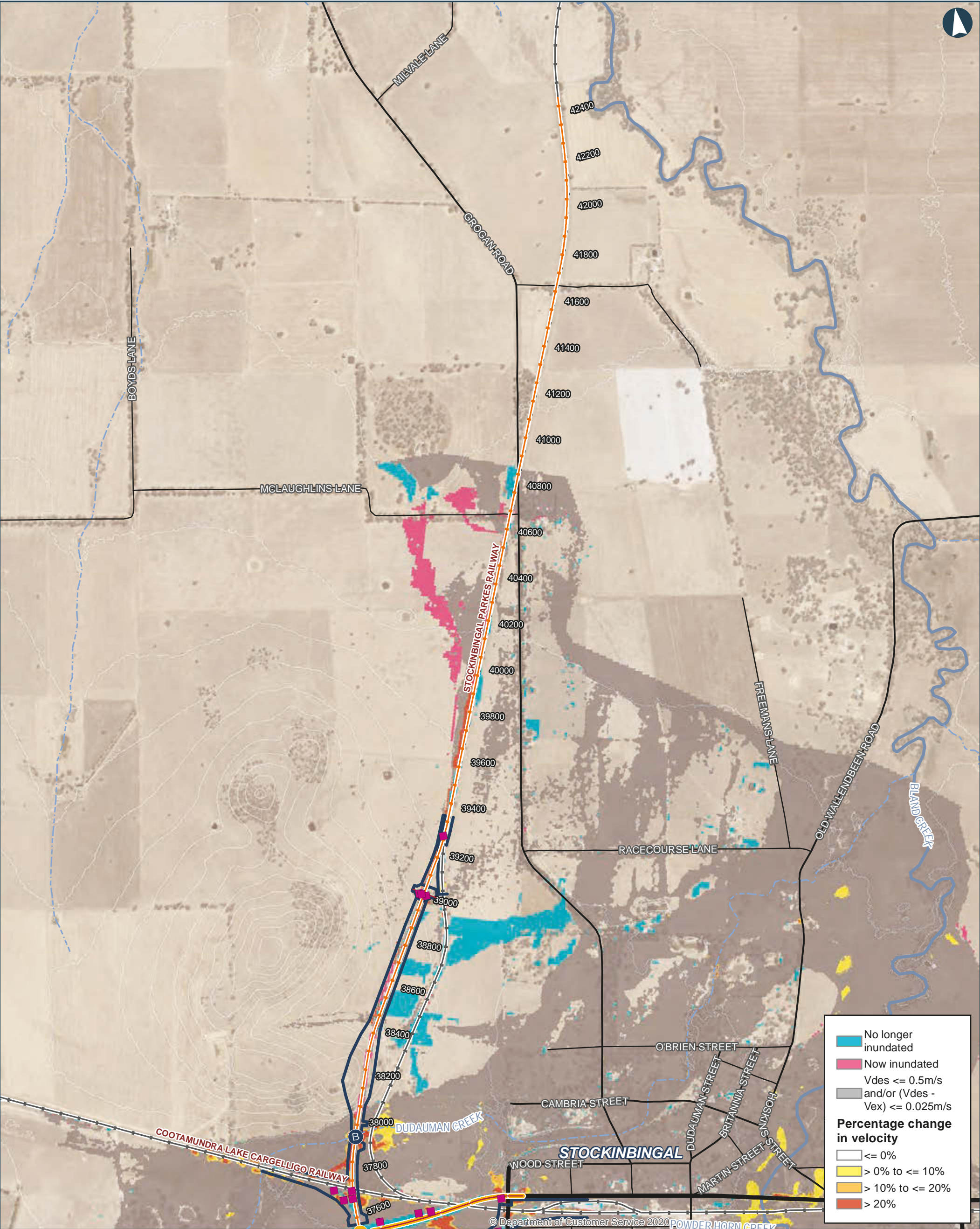
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL 0.05% AEP Percentage Change in Velocity

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Proposal site

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New track/track upgrade

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Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

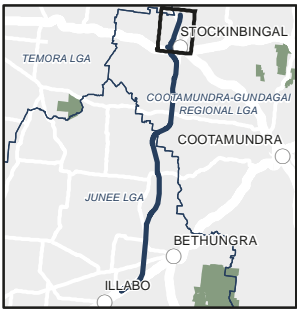
Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

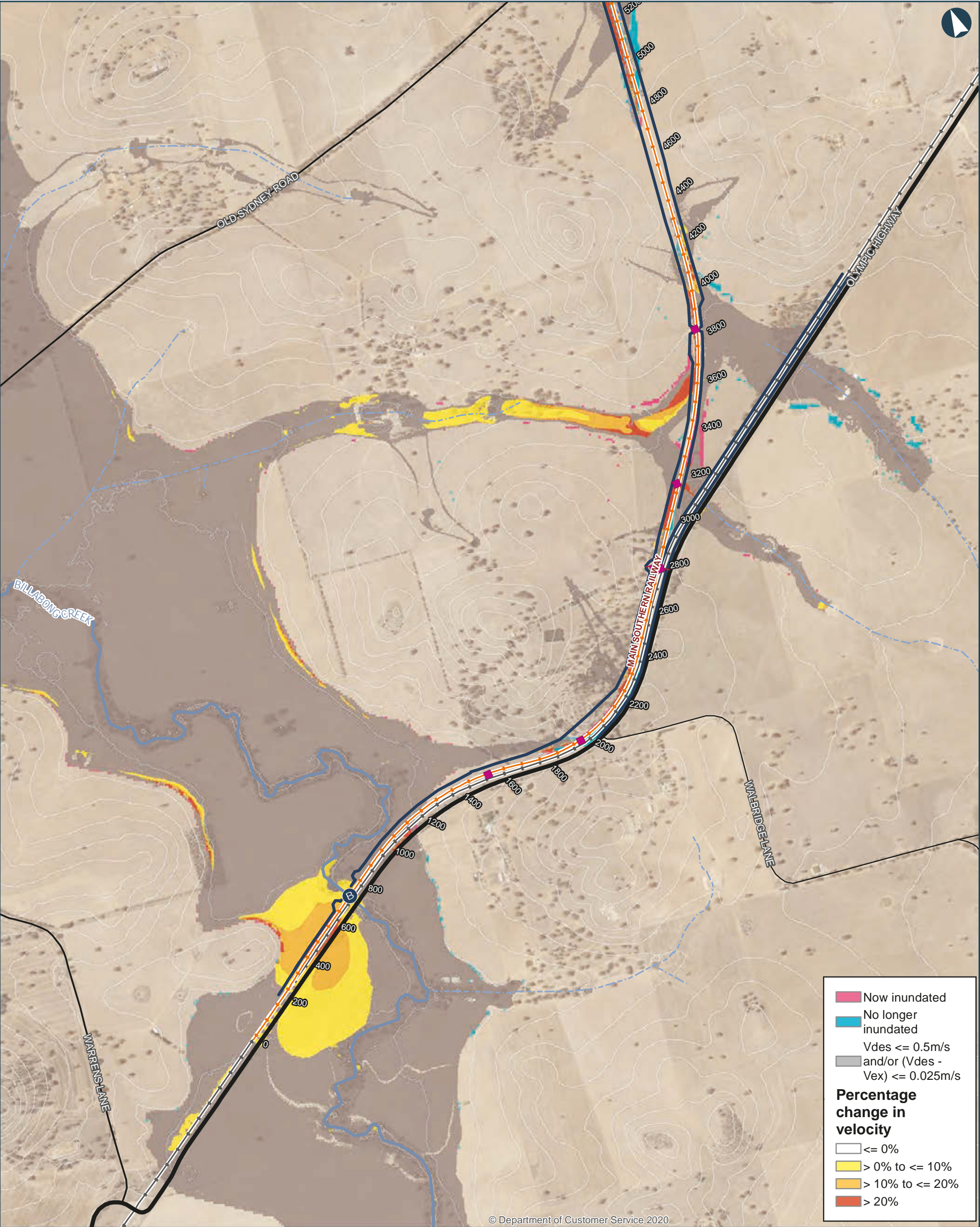
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

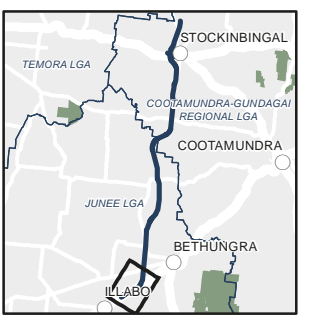
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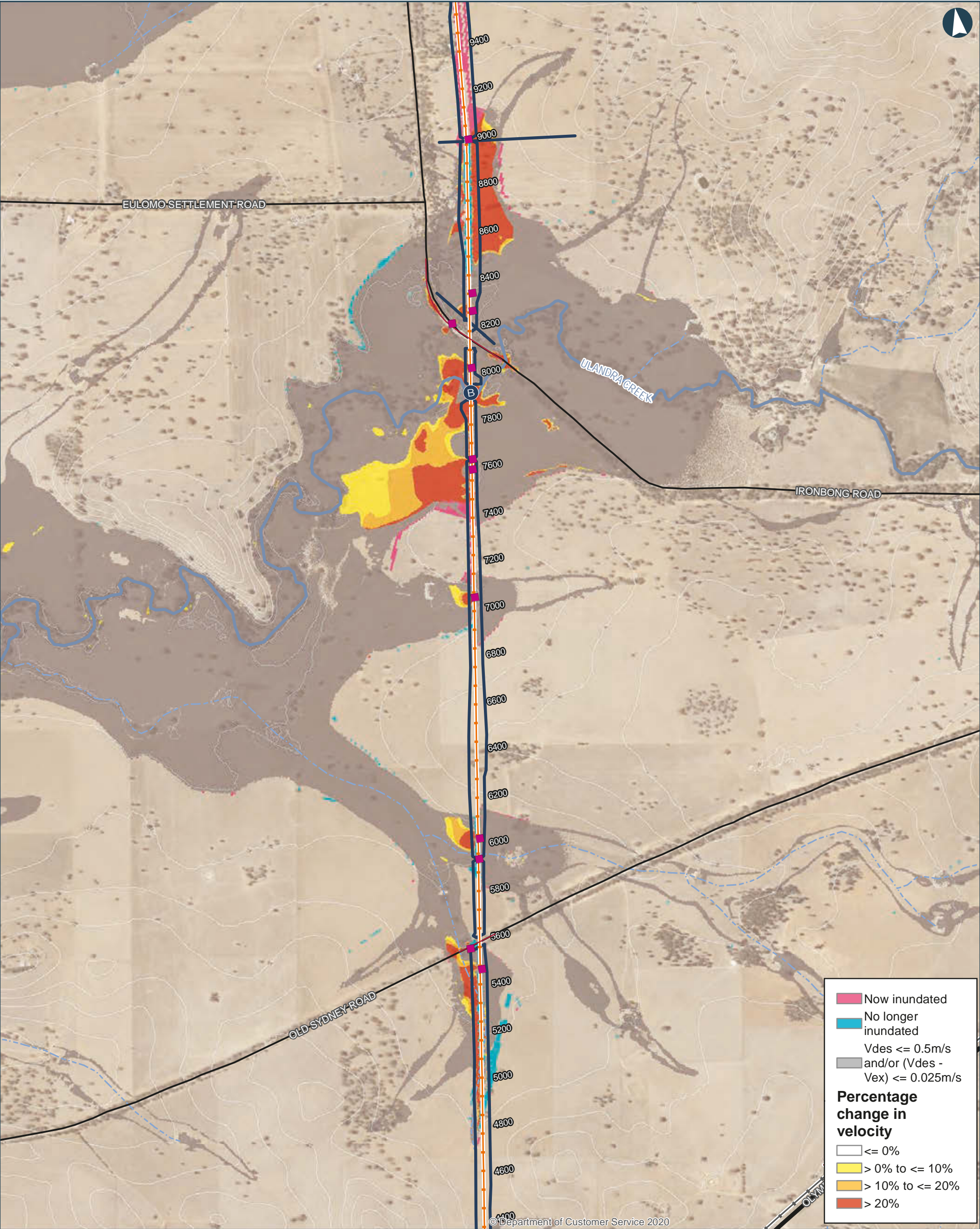
Paper: A3
Scale: 1:15,000

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- Culvert
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INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

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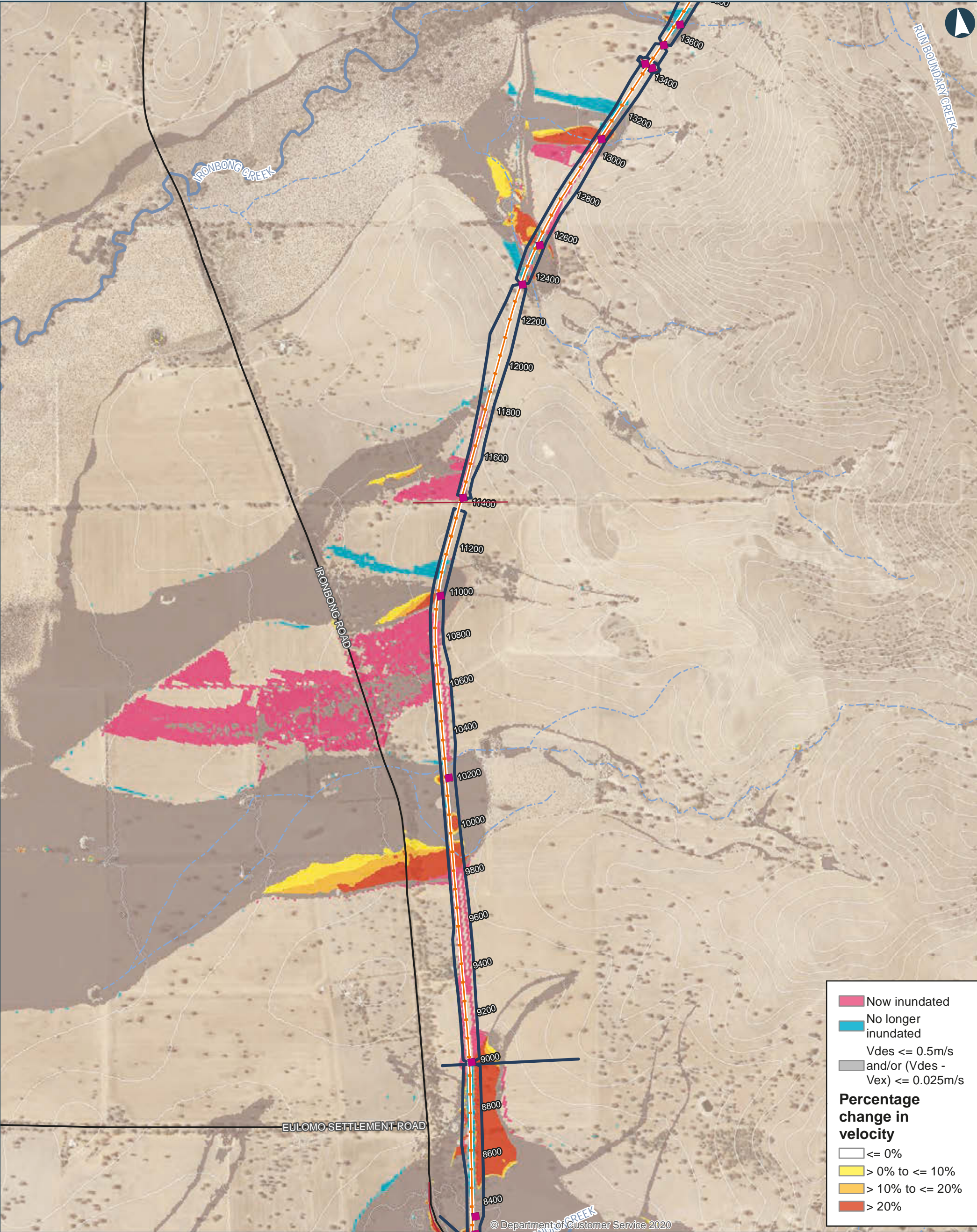
— Local road

— Sub-arterial road

— Arterial road



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ILLABO TO STOCKINBINAL Probable Maximum Flood Percentage Change in Velocity

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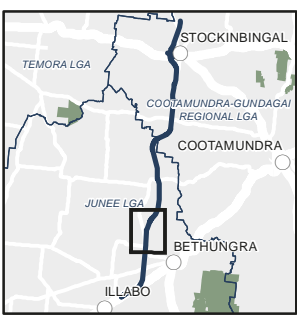
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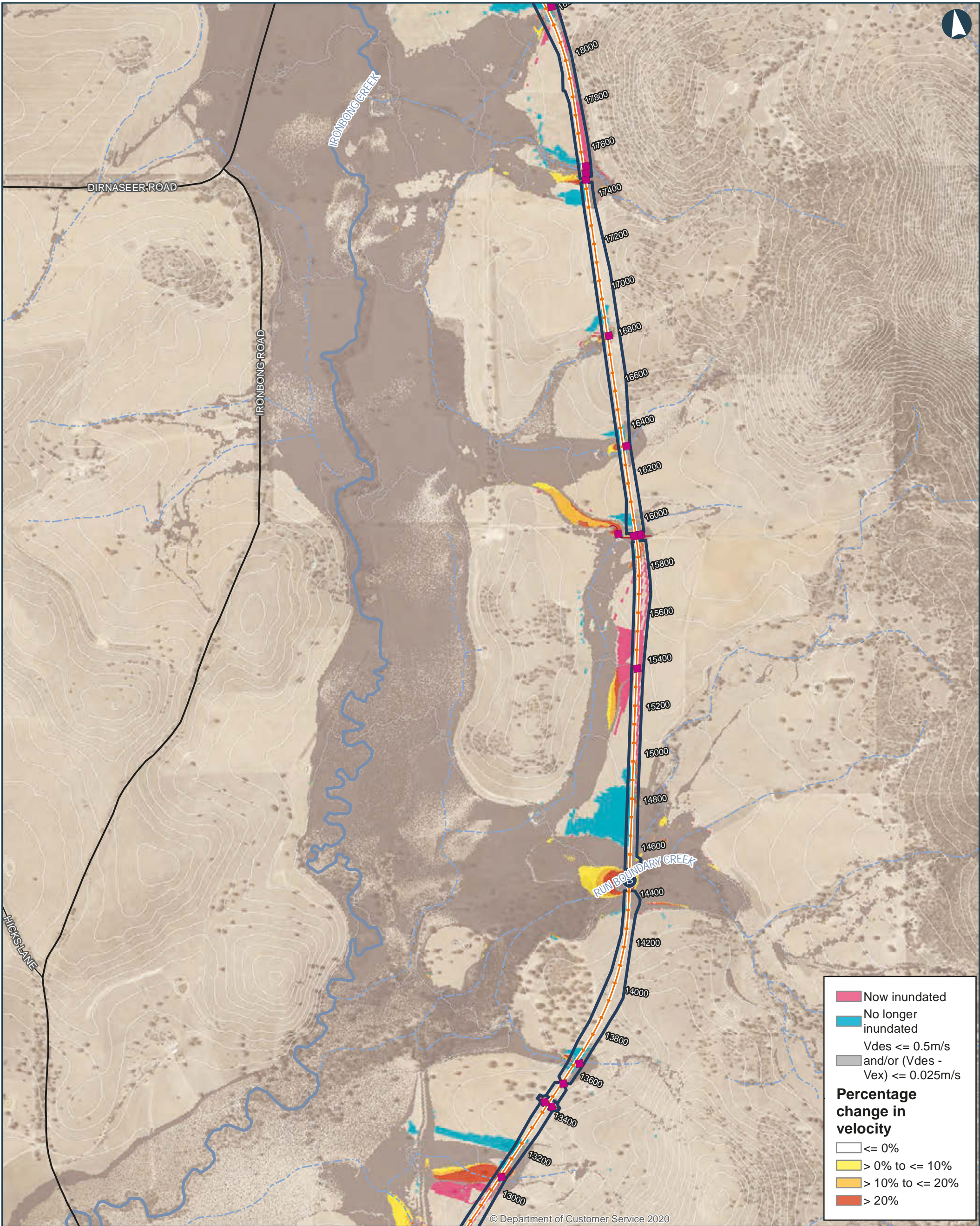
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Proposal site

Chainage (distance in metres from southern limit of the proposal)

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Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

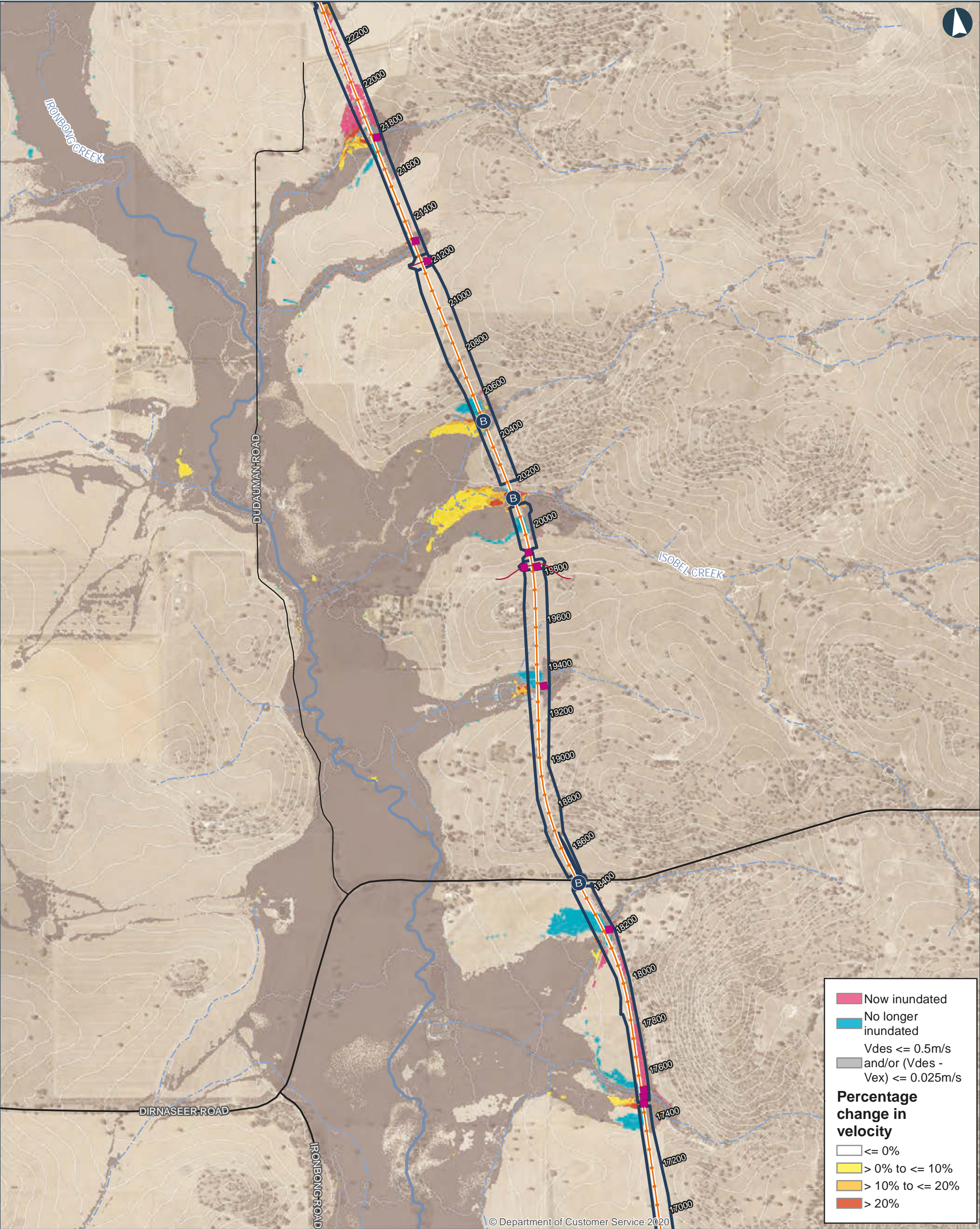
Local road

Sub-arterial road

Arterial road



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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

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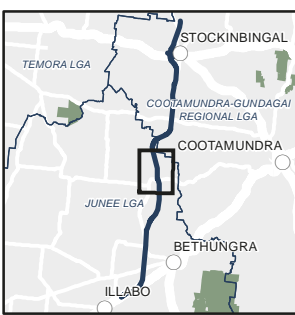
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ILLABO TO STOCKINBINAL Probable Maximum Flood Percentage Change in Velocity

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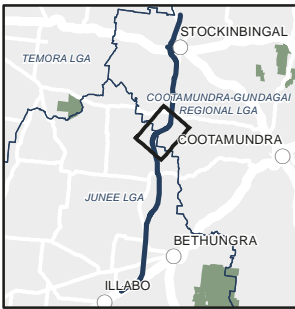
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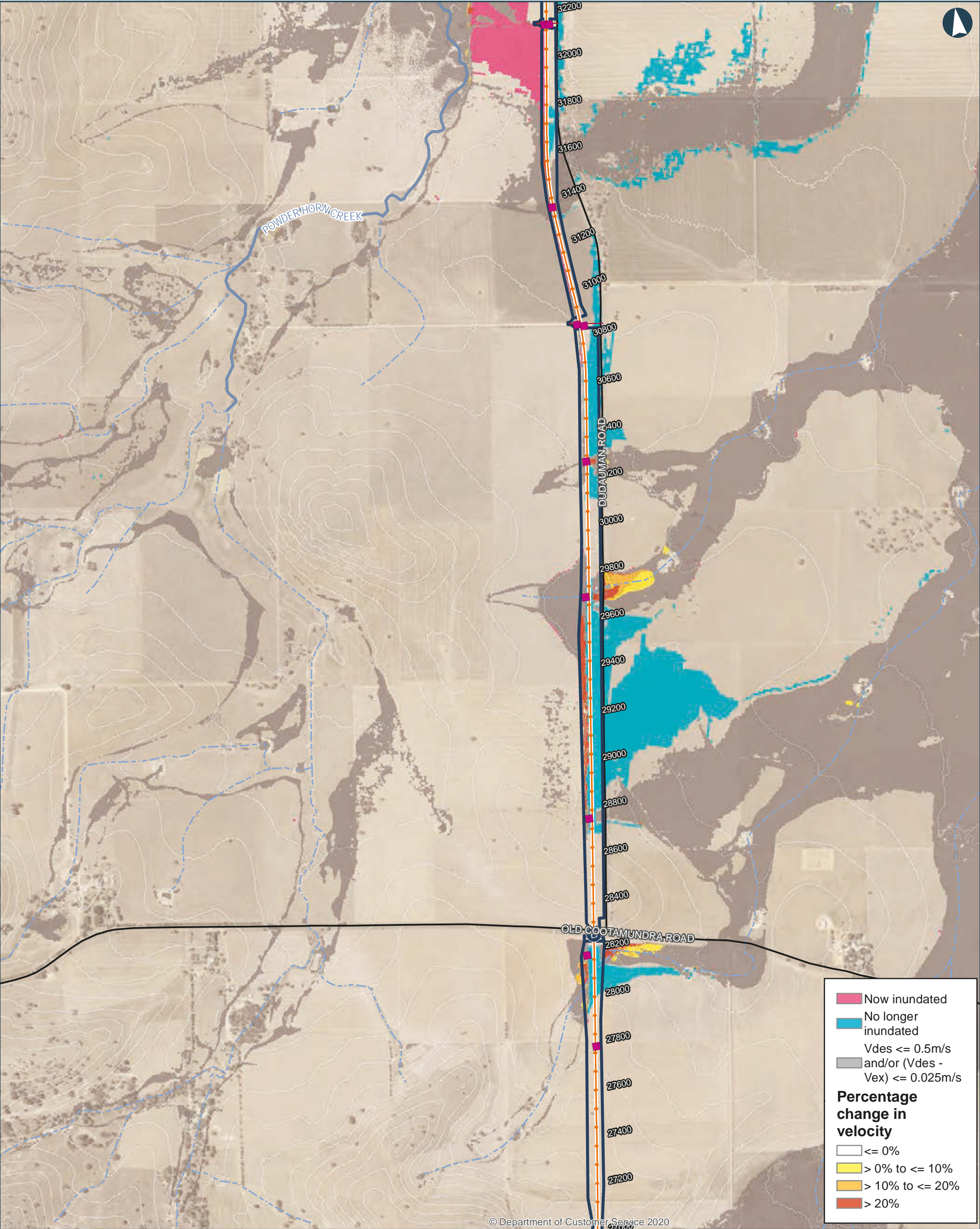
— Local road

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

0 200 400 Metres

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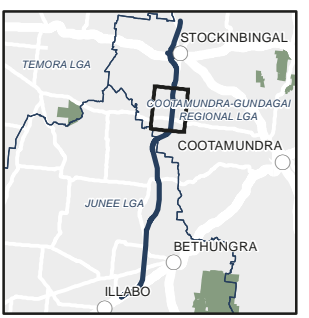
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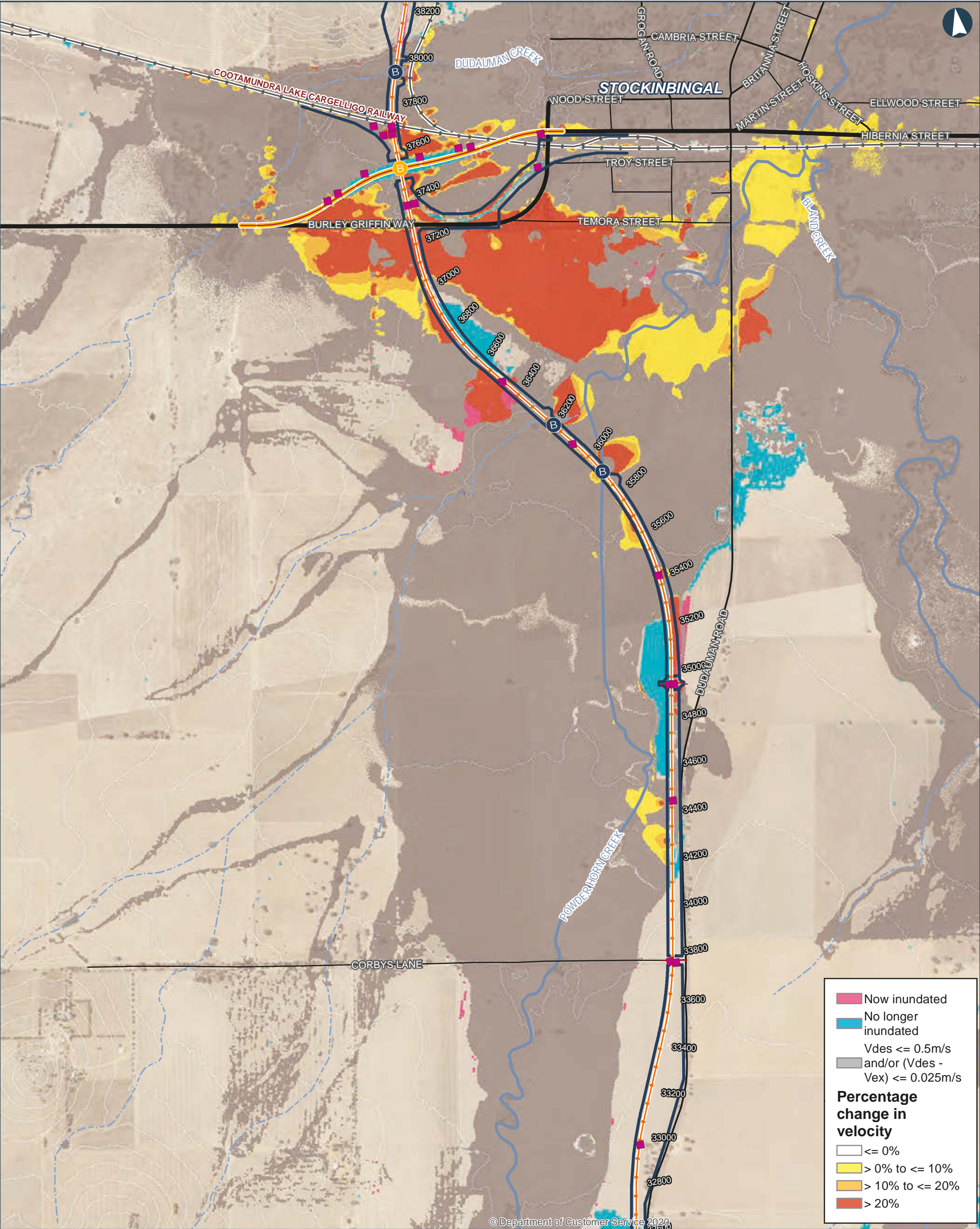
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— 5m Contours
— Existing Rail
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INLAND RAIL ARTC

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ILLABO TO STOCKINBINGAL Probable Maximum Flood Percentage Change in Velocity

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Proposal site

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Burley Griffin Way Realignment

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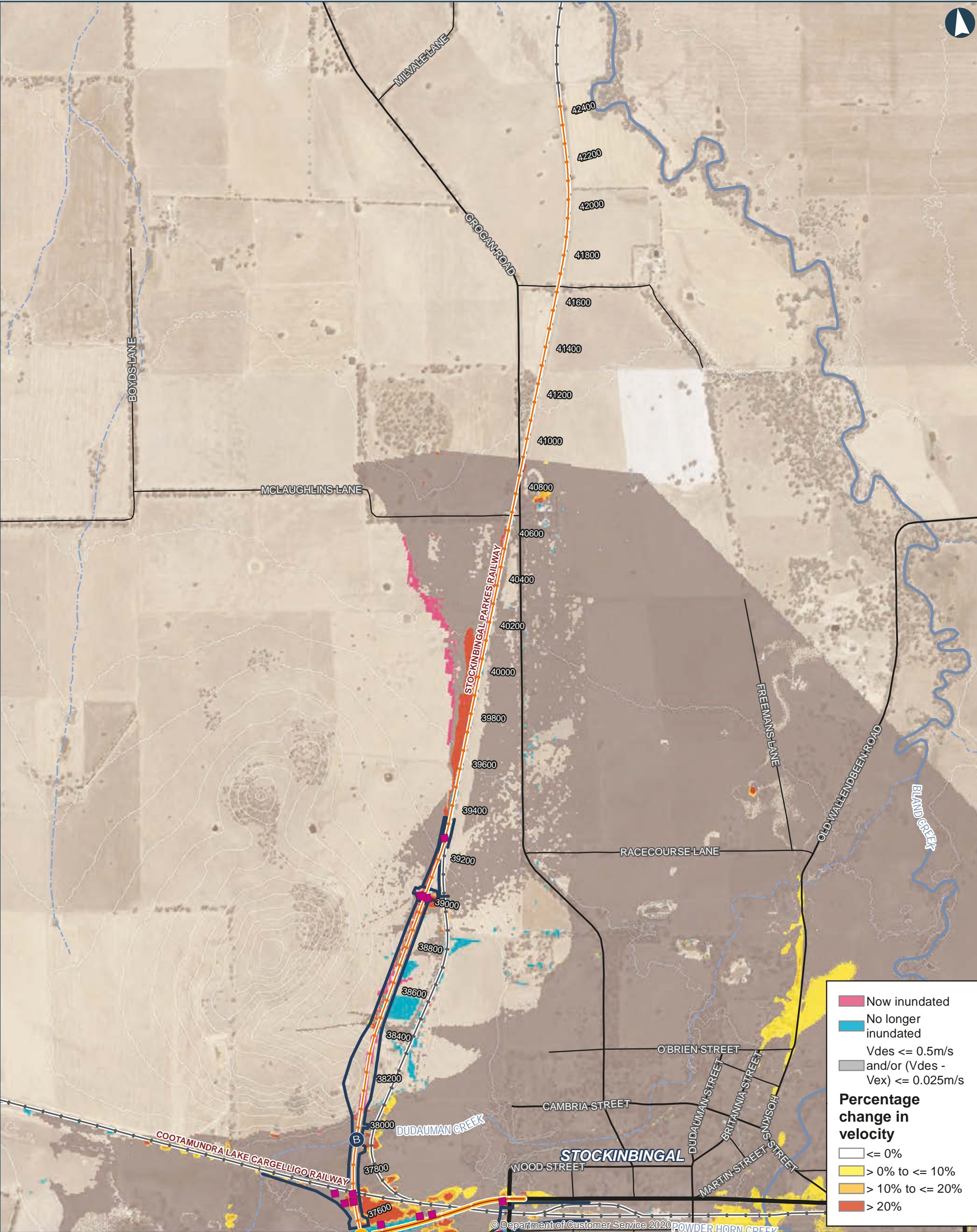
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0 200 400 Metres

Coordinate System: GDA 1994 MGA Zone 55

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Date: 8/4/2022
Author: IRDJV
Data Sources: IRDJV, ARTC, LPI

40950

Proposal site

Chainage (distance in metres from southern limit of the proposal)

New track/track upgrade

Burley Griffin Way Realignment

Overbridge

Underbridge

Culvert

5m Contours

Existing Rail

Minor watercourse (Strahler SO 1-3)

Major watercourse (Strahler SO 4-6)

Local road

Sub-arterial road

Arterial road

INLAND RAIL ARTC

The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.