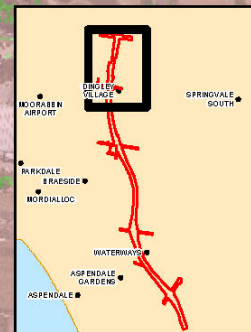


15. Appendix

15.1.1 Viewshed analysis (following 4 pages)

PRELIMINARY



Legend

 Photo location

 Project boundary

Viewshed analysis

☐ Not visited

Map: 2135645A GIS 869 A1

Author: MB



A scale bar with markings at 0, 50, and 100 meters. The bar is divided into segments: a black segment from 0 to 25m, a white segment from 25m to 50m, a black segment from 50m to 75m, and a white segment from 75m to 100m.

Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



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LiDAR photo site visit visualisations
Map 1

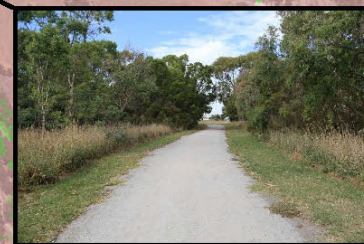
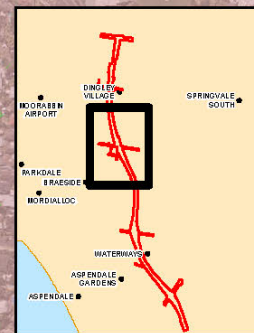
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3:unif001/term/MinRoad/12/9454_08AR_ENGINEERING_TECHNICAL_SPE/ISO/Products/Map/12/36454_GIS_899_81.mxd



VicRoads

www.wsp.com



PRELIMINARY




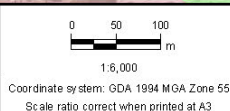
Legend

-  Photo location
-  Project boundary

Viewshed analysis

-  Not visible
-  Visible

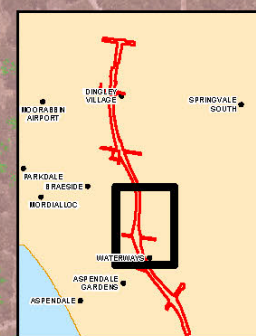
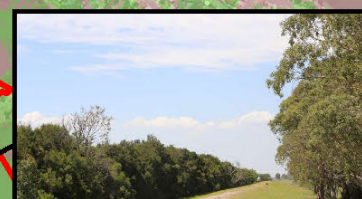
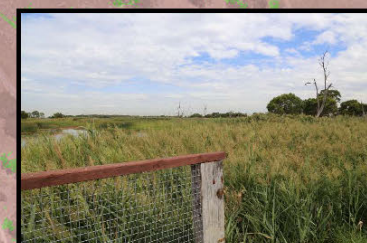
Map: 2135645A_GIS_869_A1	Author: MB	
Date: 28/02/2018	Approved by: -	



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LiDAR photo site visit visualisations
Map 2

PRELIMINARY



Legend

- Photo location
- Project boundary
- Viewshed analysis**
- Not visible
- Visible

Map: 2135645A_GIS_868_A1	Author: MB	
Date: 28/02/2018	Approved by: -	
Data source: VicRoads Copyright © The State of Victoria, Department of Environment, Land, Water & Planning 2018		 1:6,000 Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3

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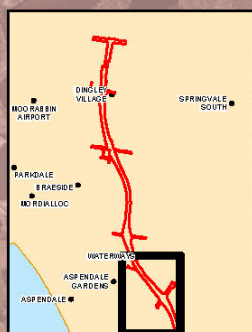
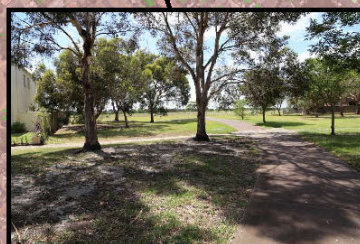
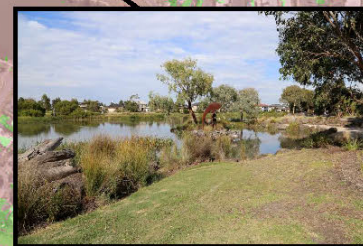
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LIDAR photo site visit visualisations
Map 3





VicRoads

www.wsp.com

PRELIMINARY



Legend

-  Photo location
 Project boundary
Viewshed analysis
 Not visible
 Visible

Map: 2135645A GIS 869 A1

Author MB



Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3

Date: 28/02/2018 Approved by: -

Data source: VicRoads,
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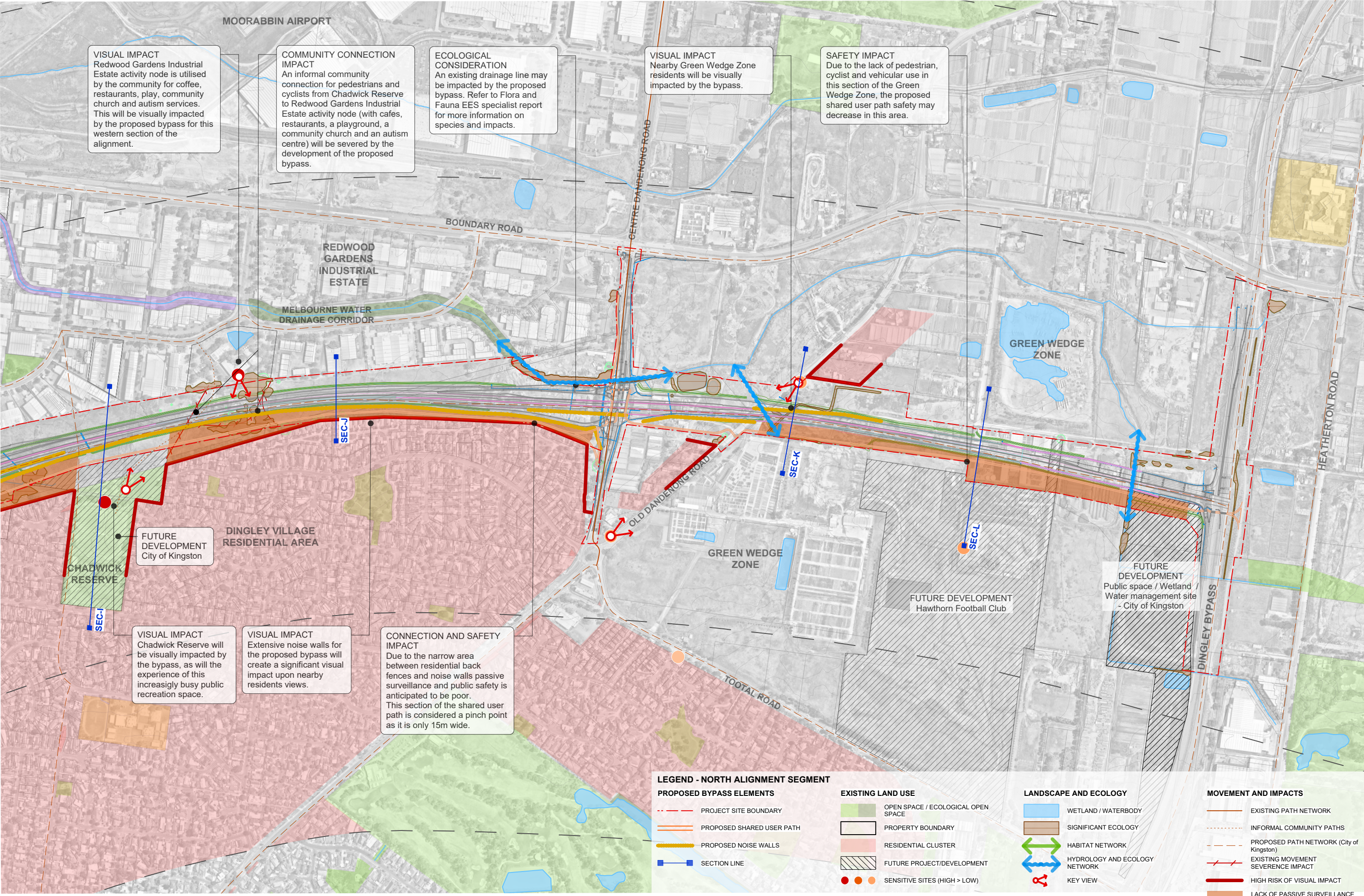
LiDAR photo site visit visualisations
Map 4

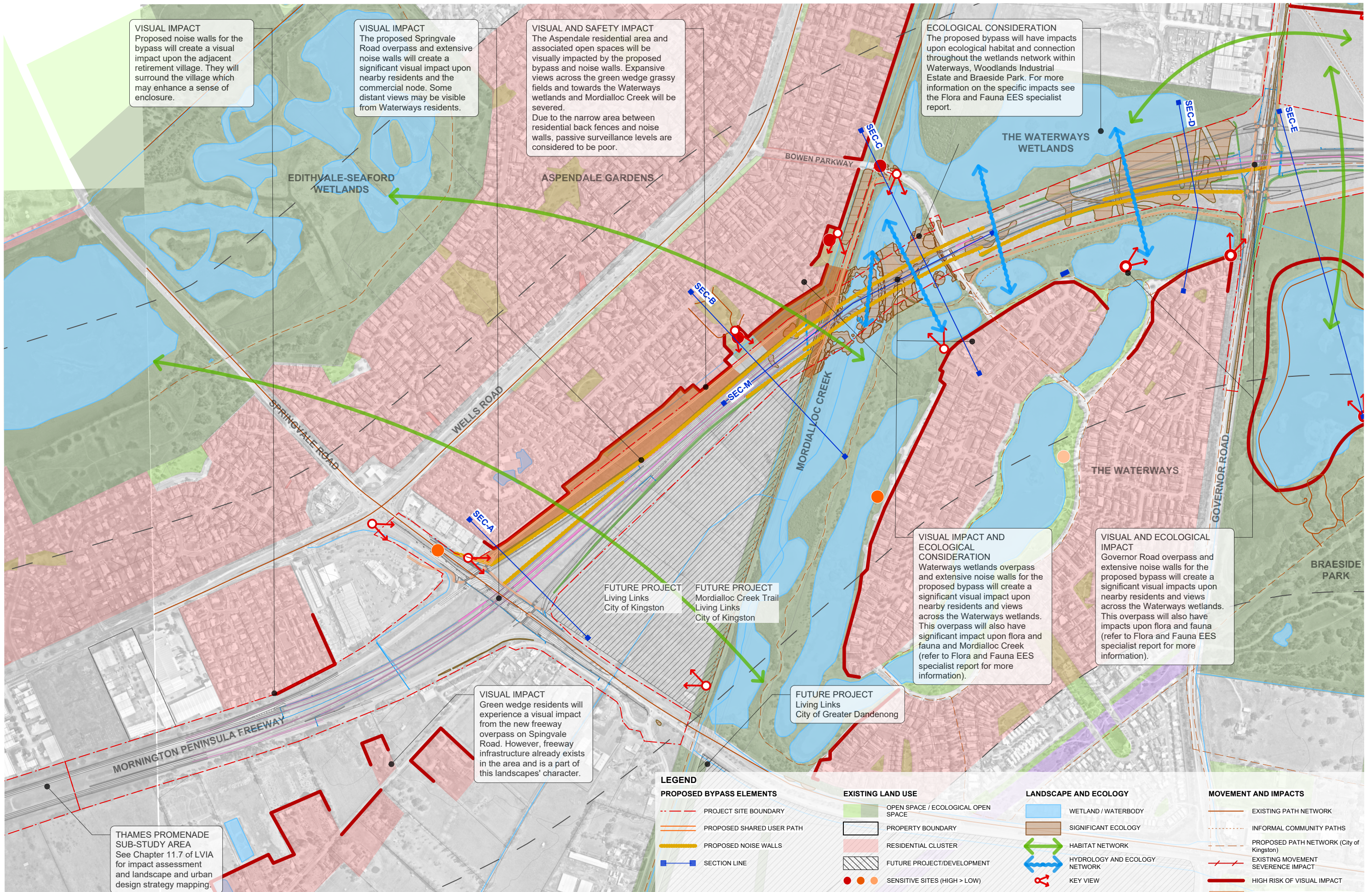
VicRoads

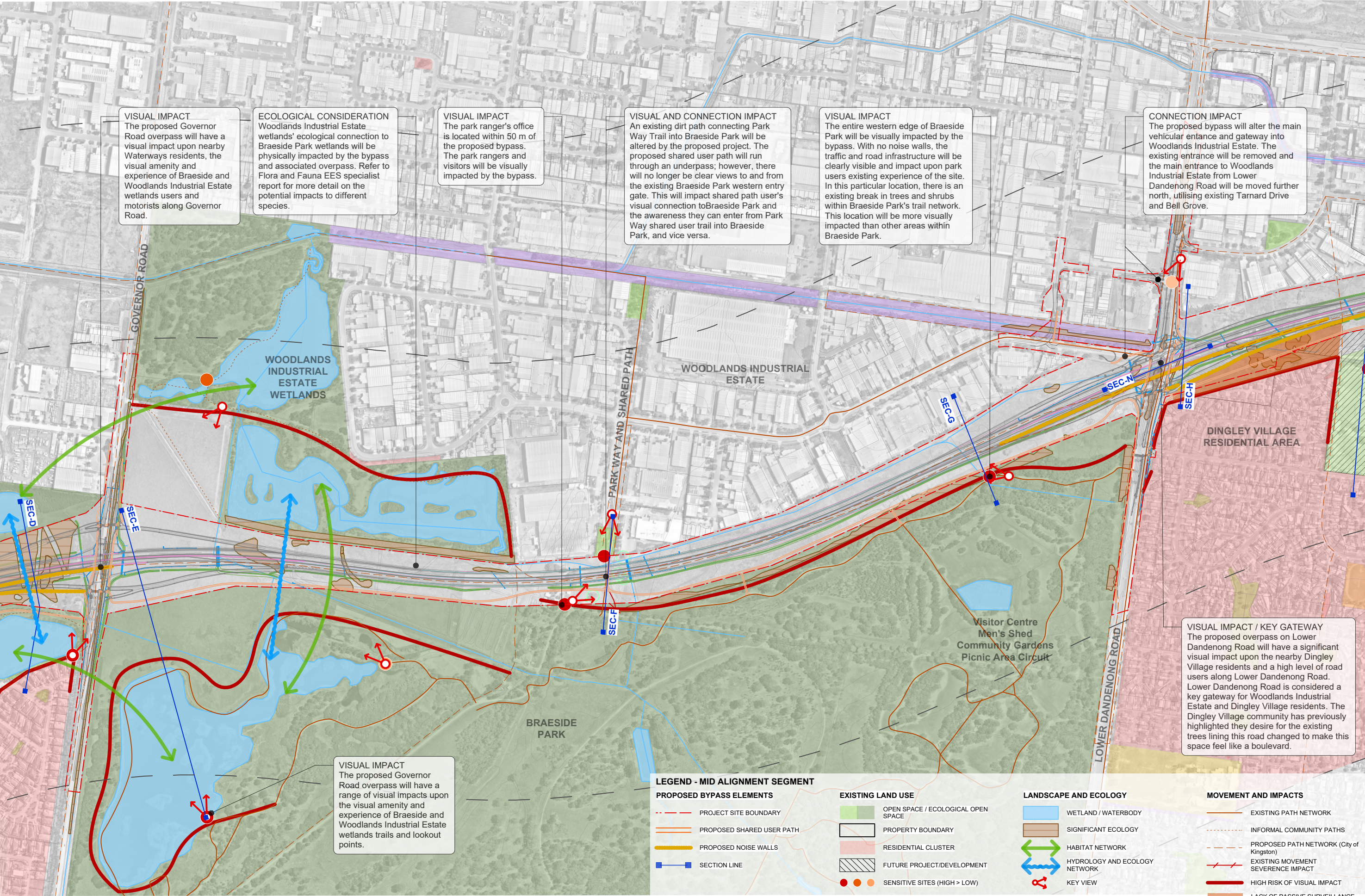
www.wsp.com

15.1.2 Mordialloc Bypass Project, EES Environmental Risk Register – Residual and Cumulative Effects

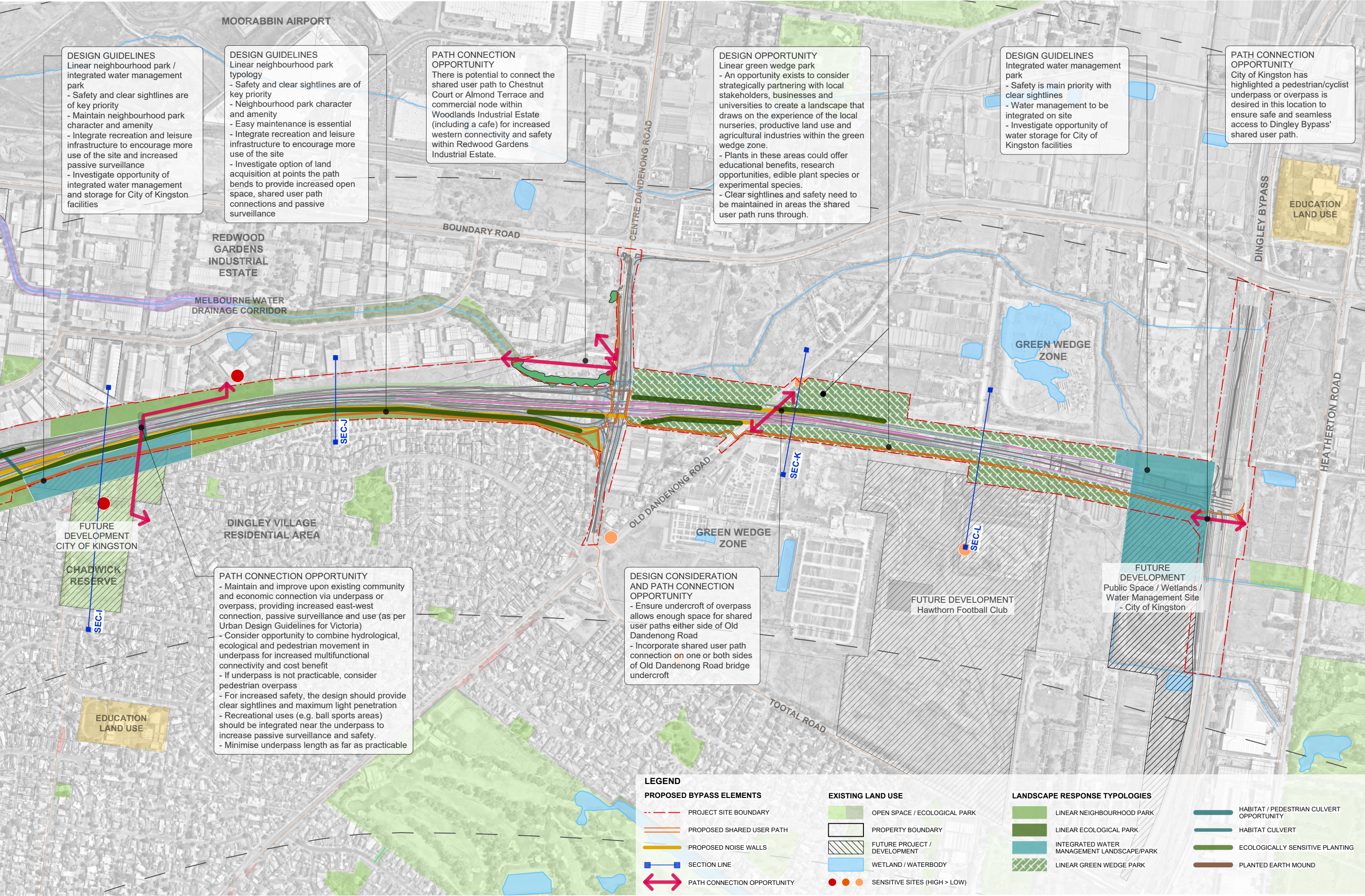
- 15.1.3 **Landscape and Visual Impact Assessment map: North sub-study area**
- 15.1.4 **Landscape and Visual Impact Assessment map: Middle sub-study area**
- 15.1.5 **Landscape and Visual Impact Assessment map: South sub-study area**

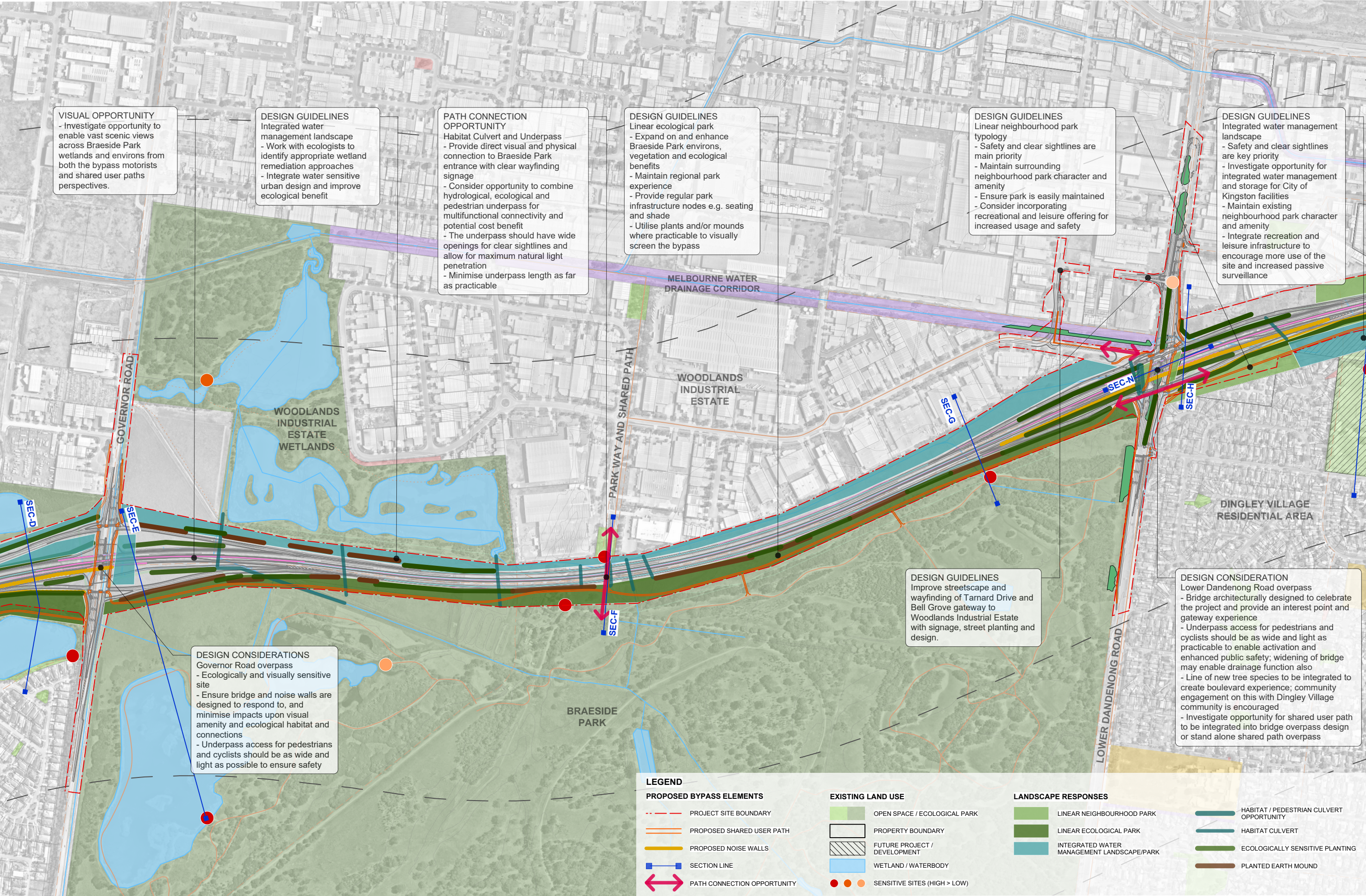


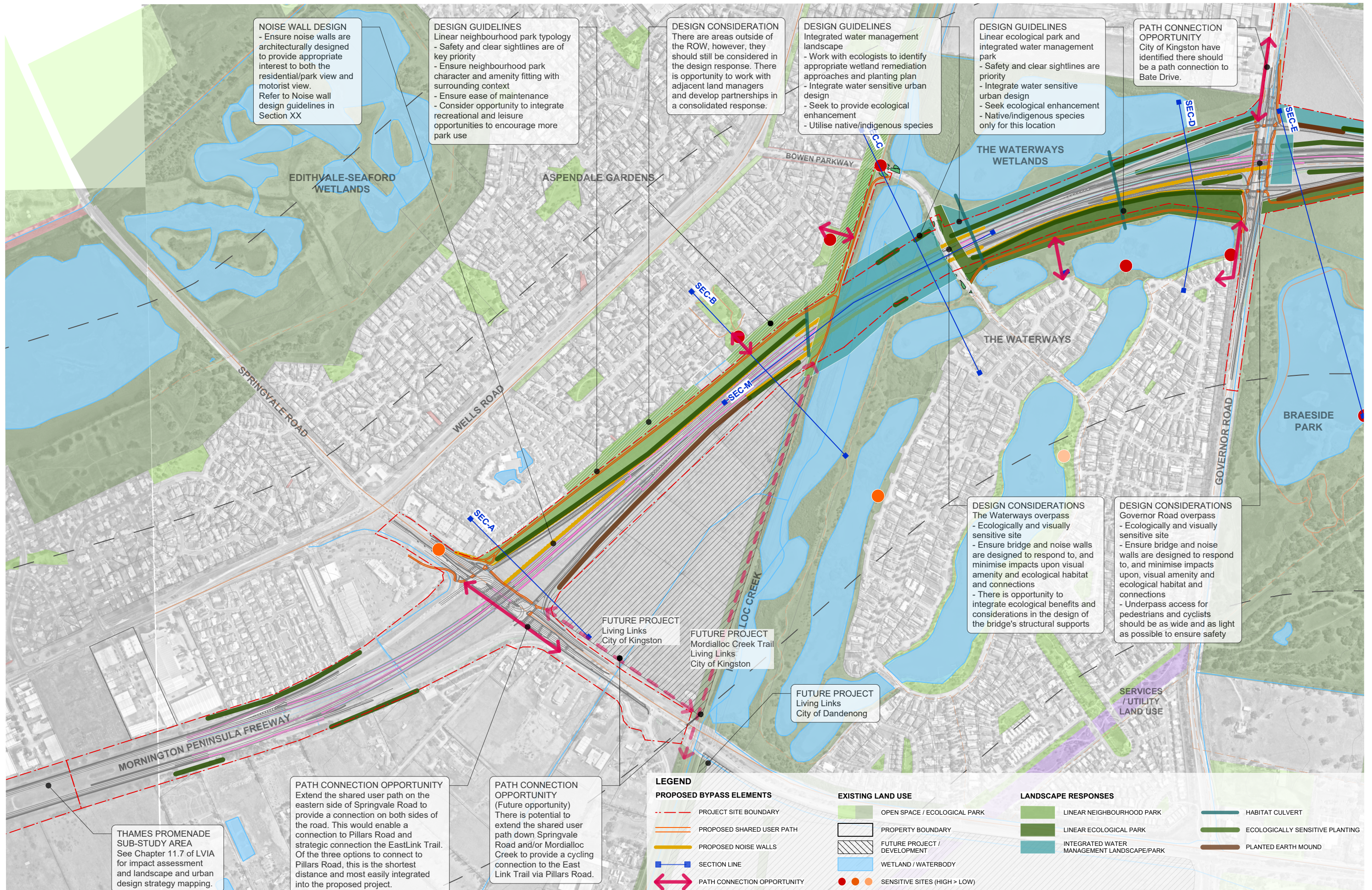




- 15.1.6 **Landscape and Urban Design Strategy map: North sub-study area**
- 15.1.7 **Landscape and Urban Design Strategy map: Middle sub-study area**
- 15.1.8 **Landscape and Urban Design Strategy map: South sub-study area**







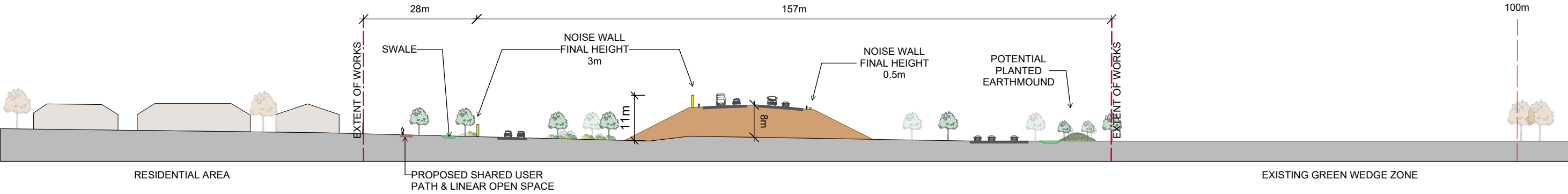
15.1.9 Standard mitigation cross sections A–C

15.1.10 Standard mitigation cross sections D–F

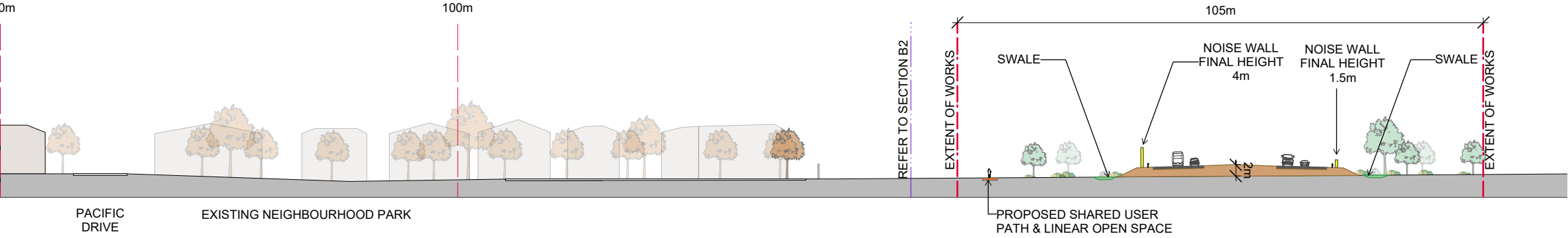
15.1.11 Standard mitigation cross sections G–J

15.1.12 Standard mitigation cross sections K–N

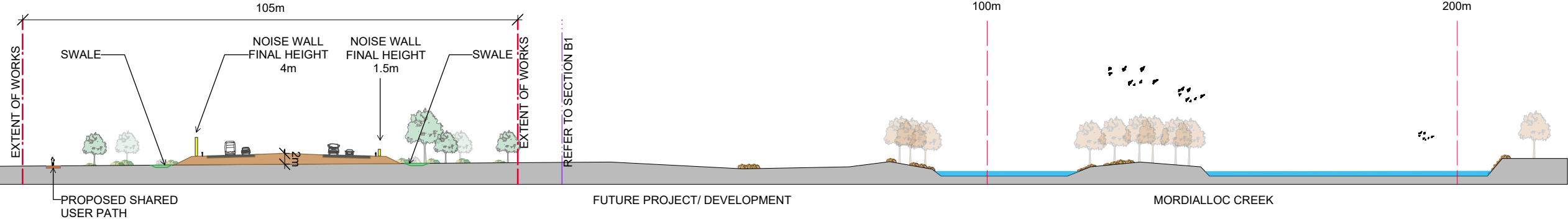
STANDARD MITIGATION CROSS SECTION A: LOOKING NORTH-WEST



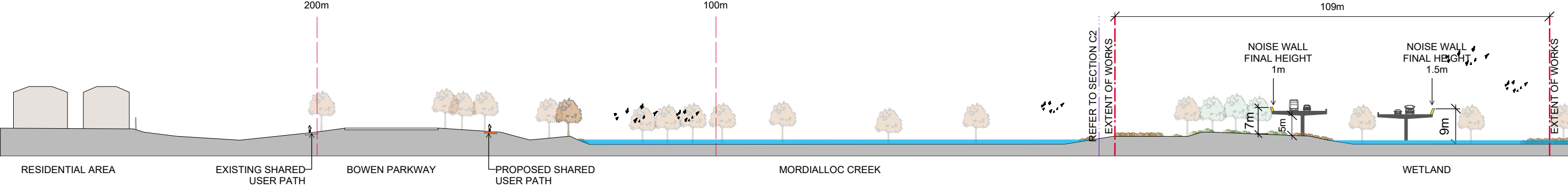
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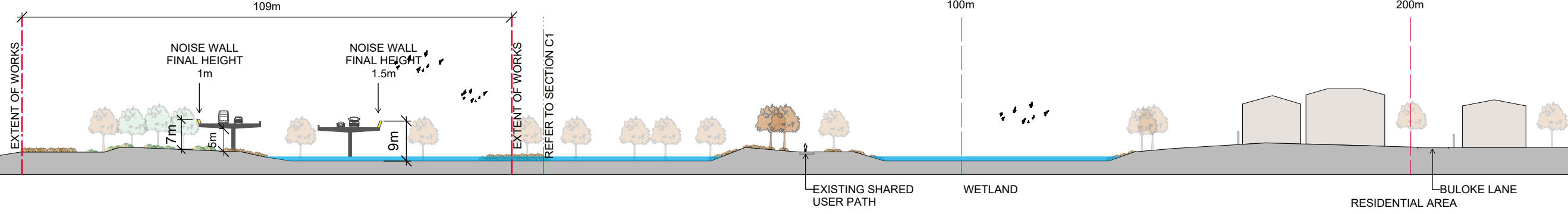
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STANDARD MITIGATION CROSS SECTION C1: LOOKING NORTH-WEST



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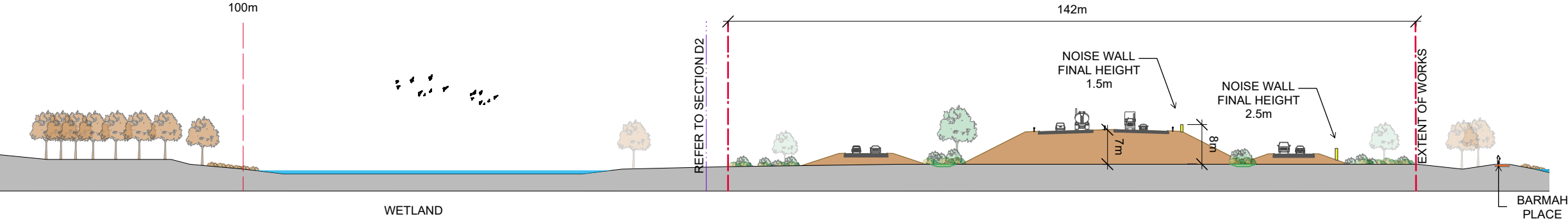
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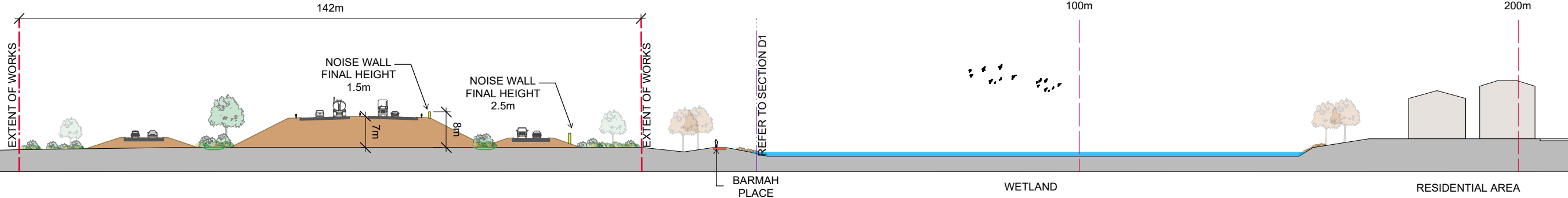
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Revision: C
Cross Sections
Sheet 01 of 16

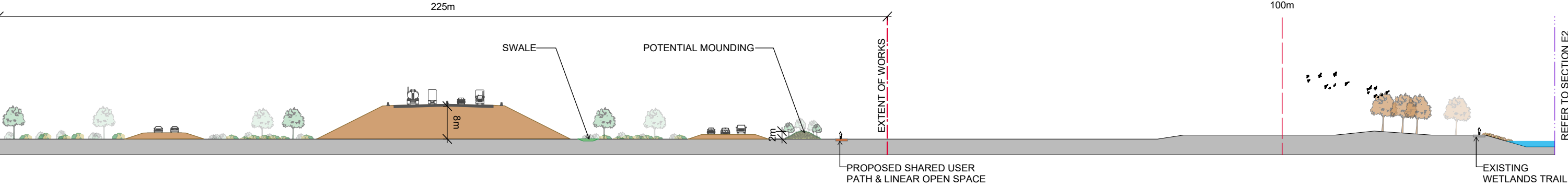
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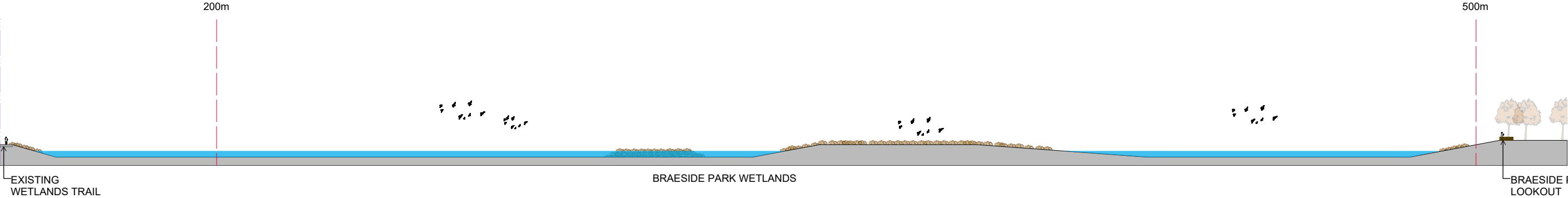
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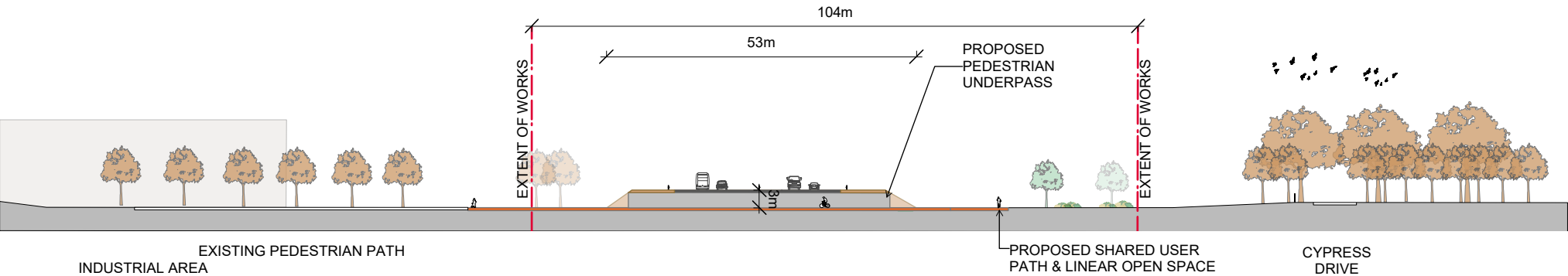
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STANDARD MITIGATION CROSS SECTION F: LOOKING NORTH



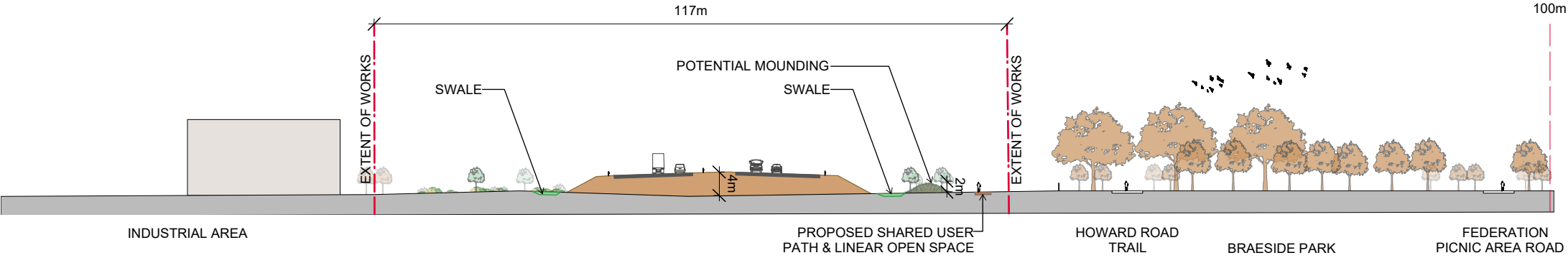
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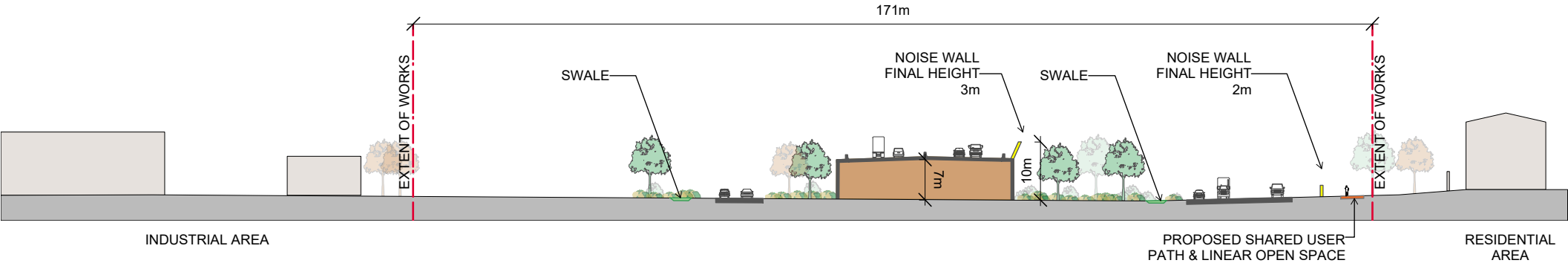
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Sheet 02 of 16

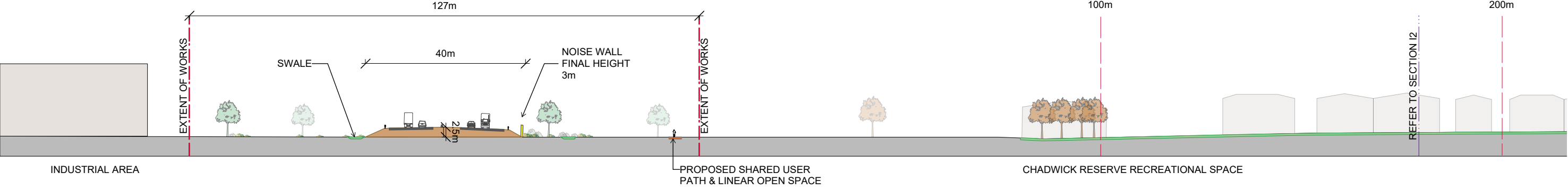
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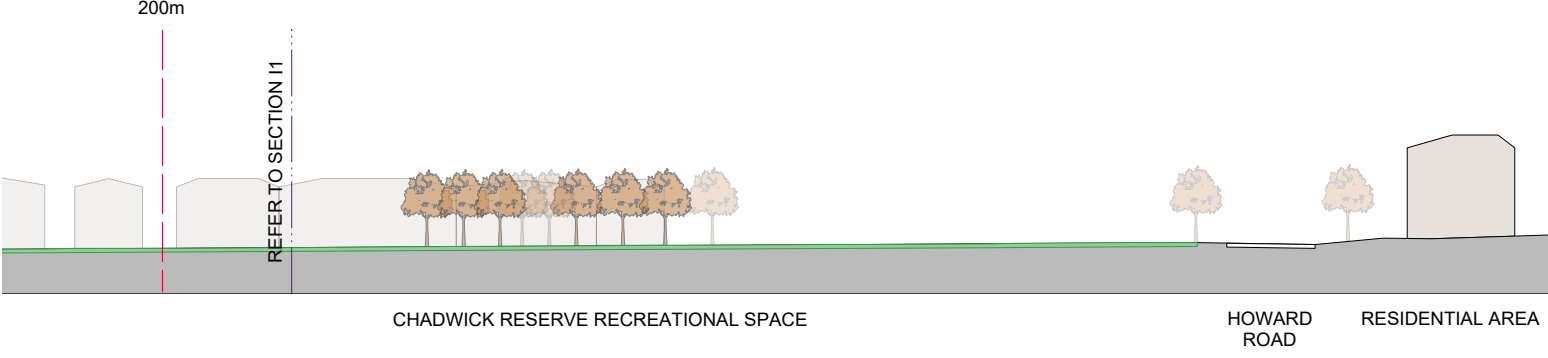
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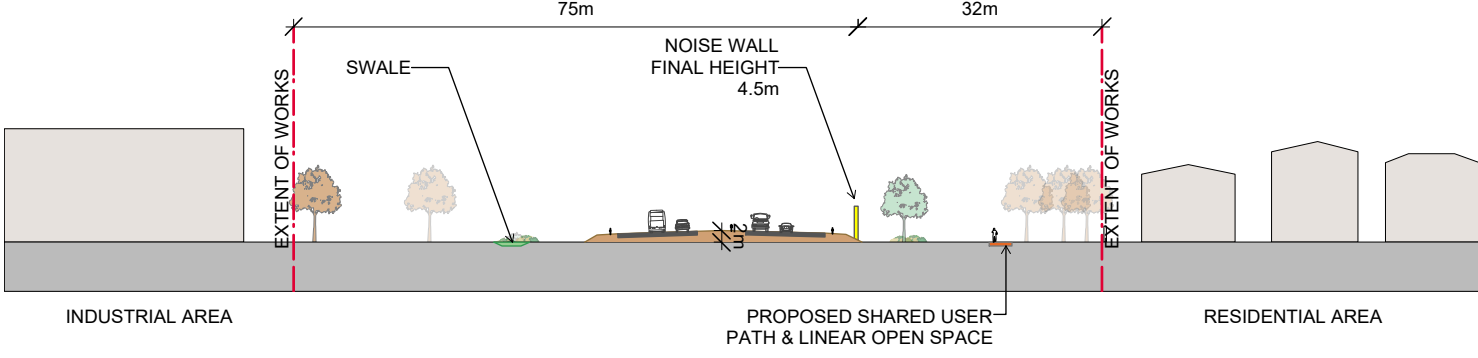
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STANDARD MITIGATION CROSS SECTION I2: LOOKING NORTH



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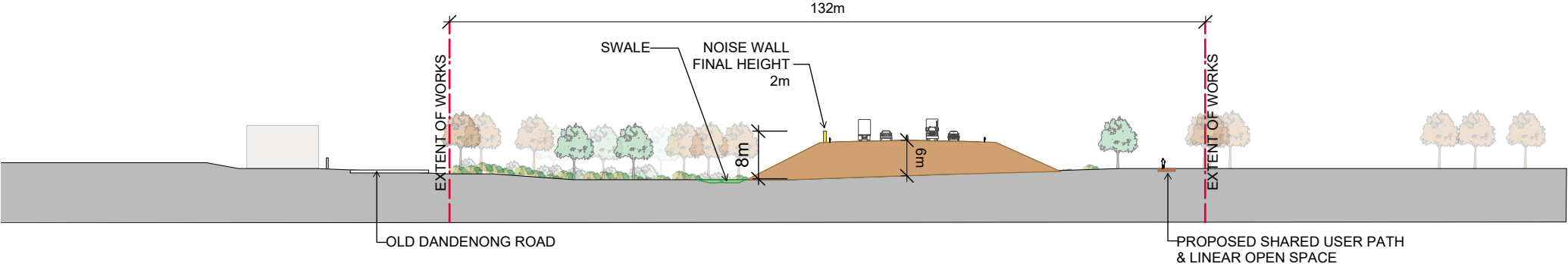
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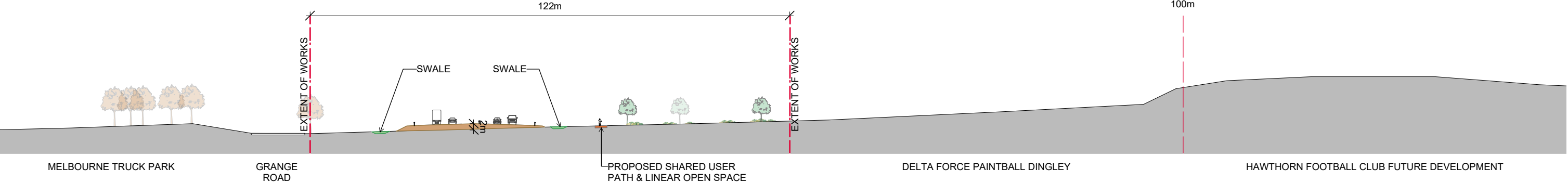
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Cross Sections
Sheet 03 of 16

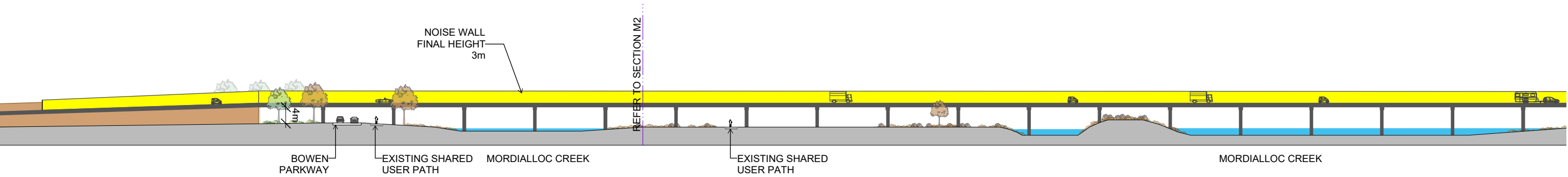
STANDARD MITIGATION CROSS SECTION K: LOOKING NORTH



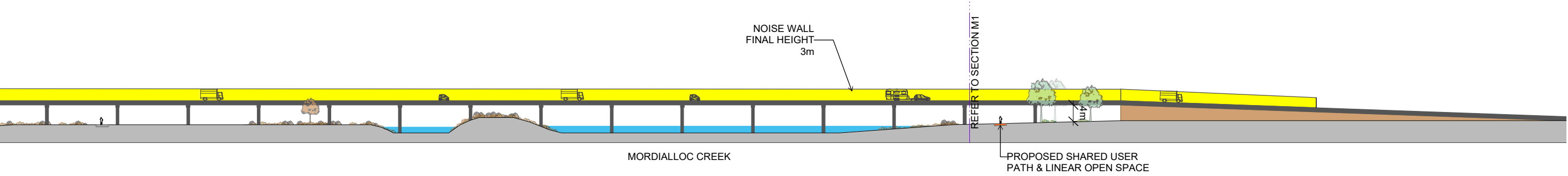
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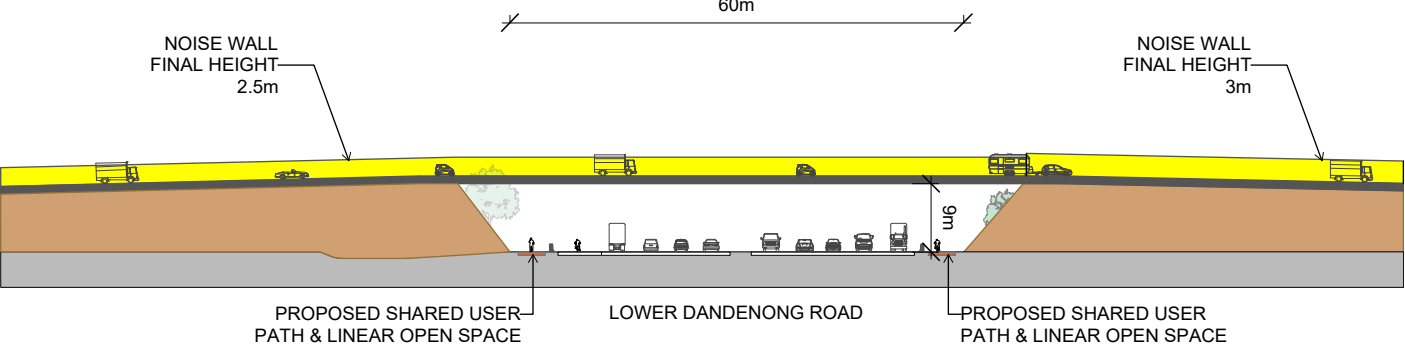
STANDARD MITIGATION CROSS SECTION M1: LOOKING EAST



STANDARD MITIGATION CROSS SECTION M2: LOOKING EAST



STANDARD MITIGATION CROSS SECTION N: LOOKING EAST



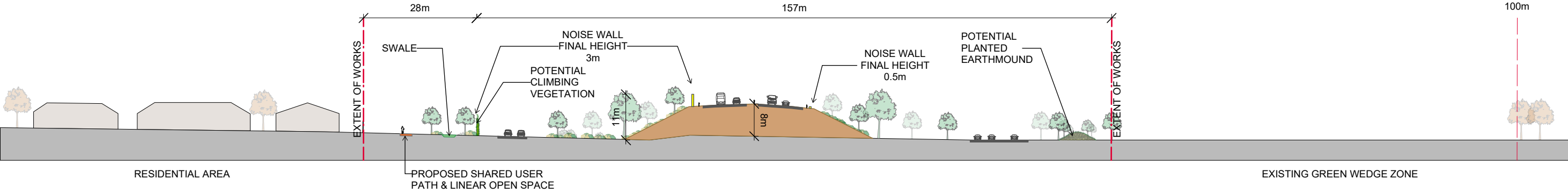
15.1.13 Non-standard mitigation cross sections A–C

15.1.14 Non-standard mitigation cross sections D–F

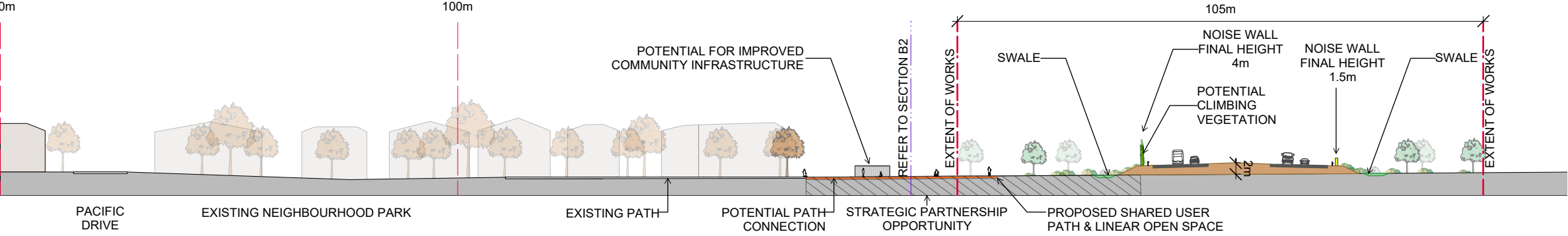
15.1.15 Non-standard mitigation cross sections G–J

15.1.16 Non-standard mitigation cross sections K–N

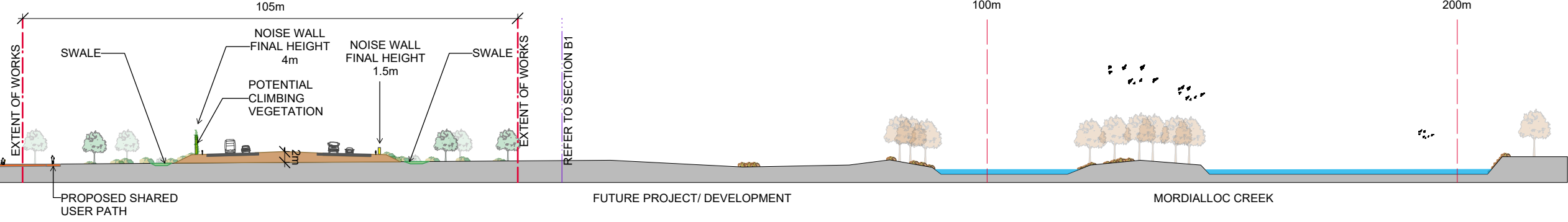
NON-STANDARD MITIGATION CROSS SECTION A: LOOKING NORTH-WEST



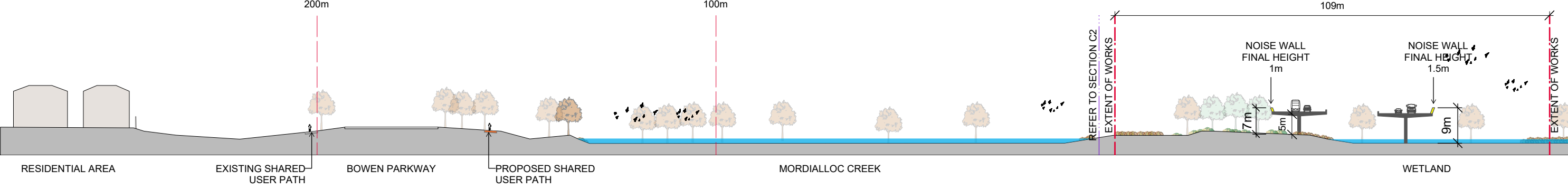
NON-STANDARD MITIGATION CROSS SECTION B1: LOOKING NORTH-WEST



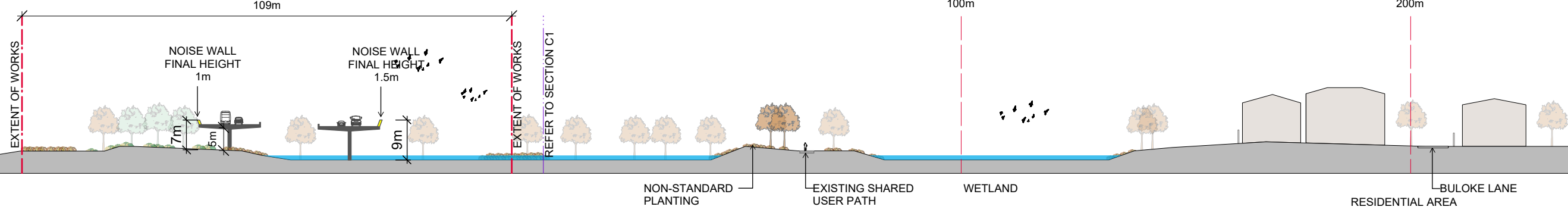
NON-STANDARD MITIGATION CROSS SECTION B2: LOOKING NORTH-WEST



NON-STANDARD MITIGATION CROSS SECTION C1: LOOKING NORTH-WEST



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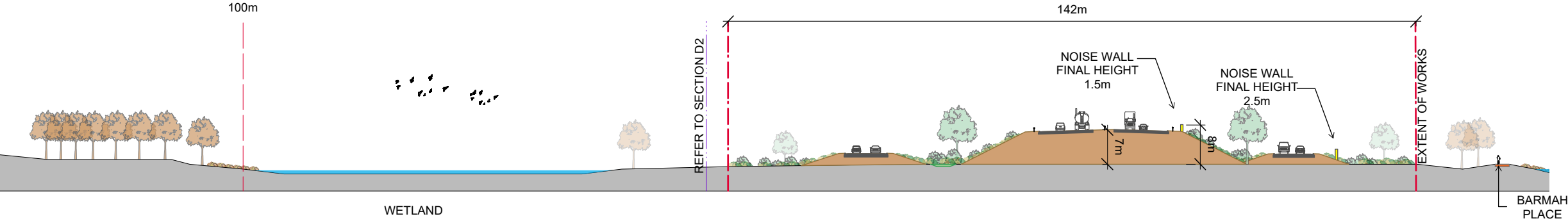
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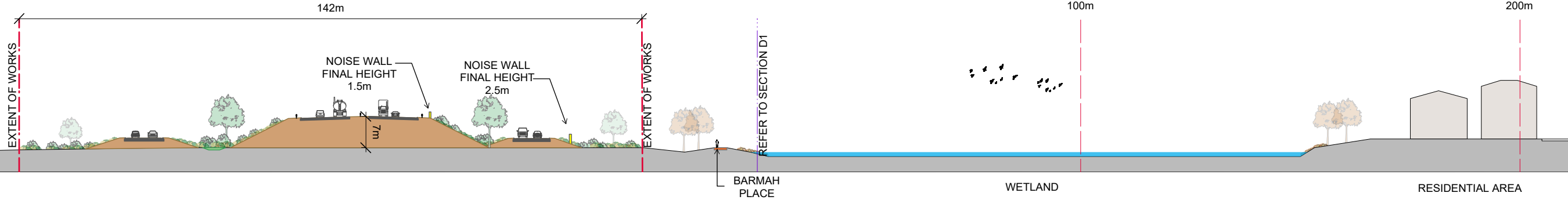
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Sheet No.: LS-005
Revision: C
Cross Sections
Sheet 05 of 16

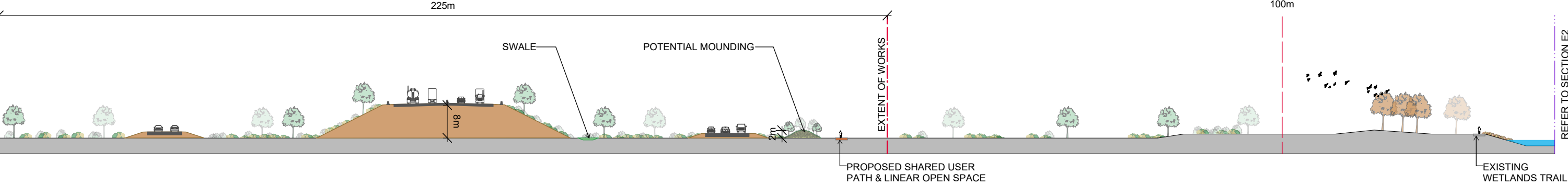
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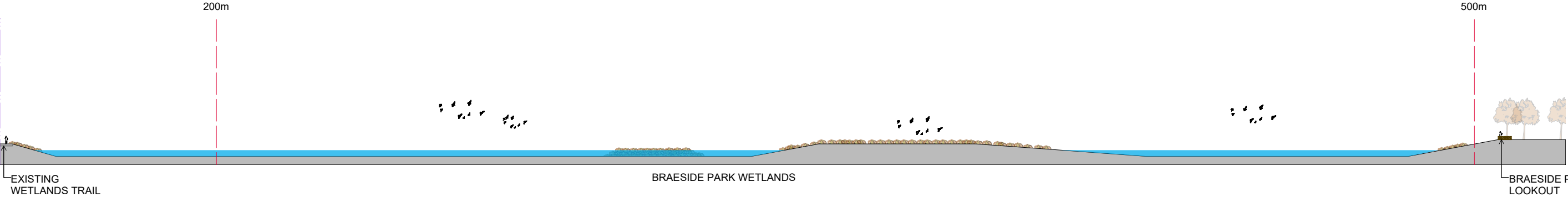
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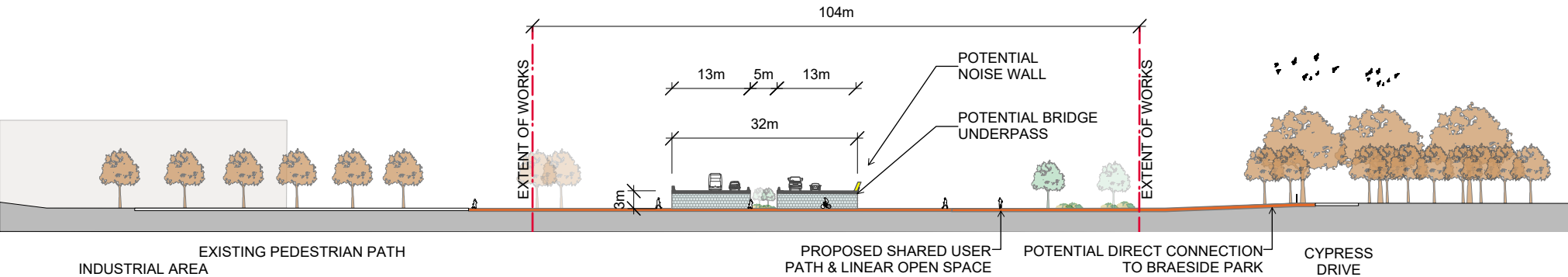
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NON-STANDARD MITIGATION CROSS SECTION E2: LOOKING NORTH-WEST



NON-STANDARD MITIGATION CROSS SECTION F: LOOKING NORTH



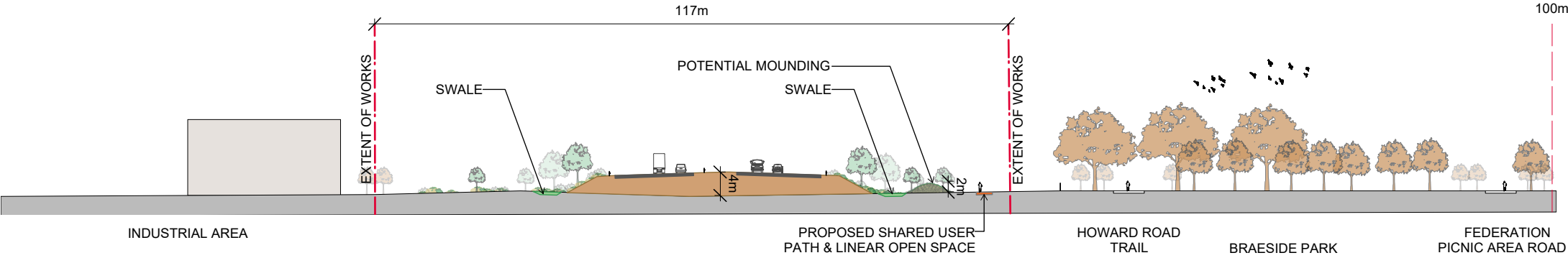
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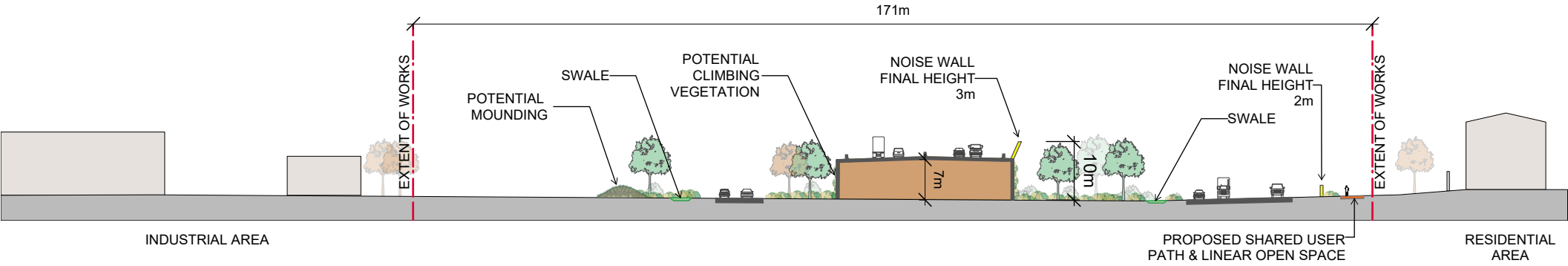
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Cross Sections
Sheet 06 of 16

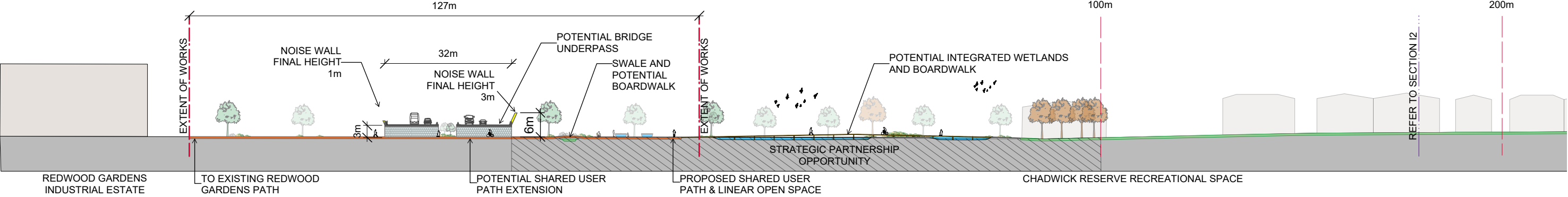
NON-STANDARD MITIGATION CROSS SECTION G: LOOKING NORTH-WEST



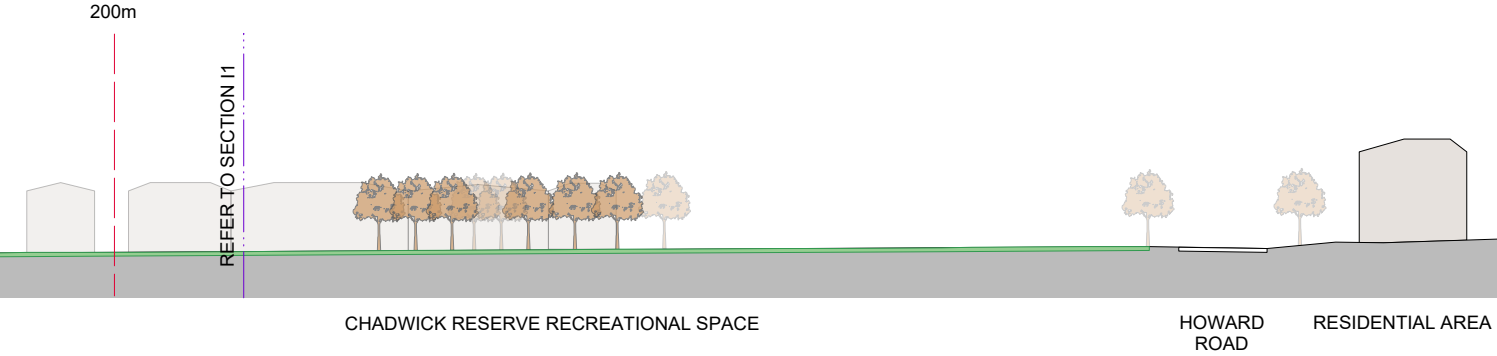
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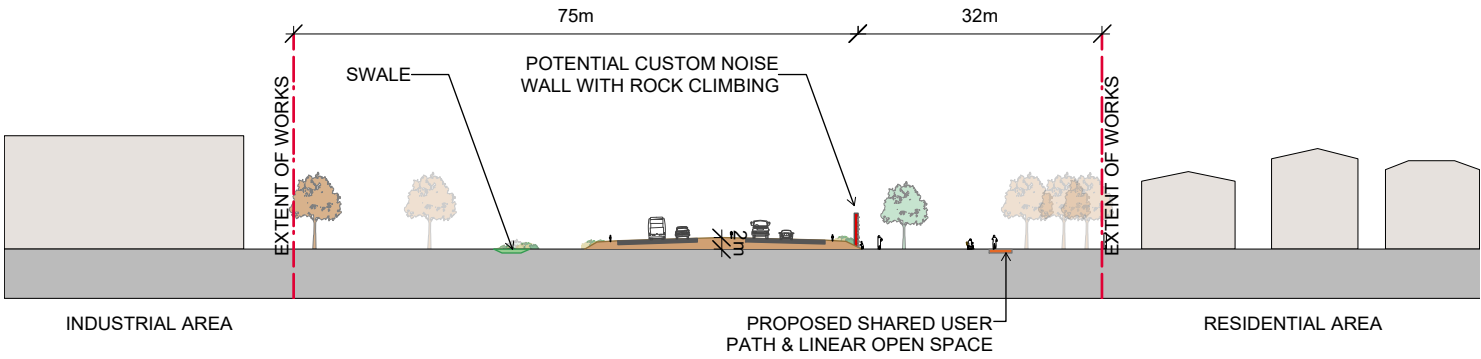
NON-STANDARD MITIGATION CROSS SECTION I1: LOOKING NORTH



NON-STANDARD MITIGATION CROSS SECTION I2: LOOKING NORTH



NON-STANDARD MITIGATION CROSS SECTION J: LOOKING NORTH



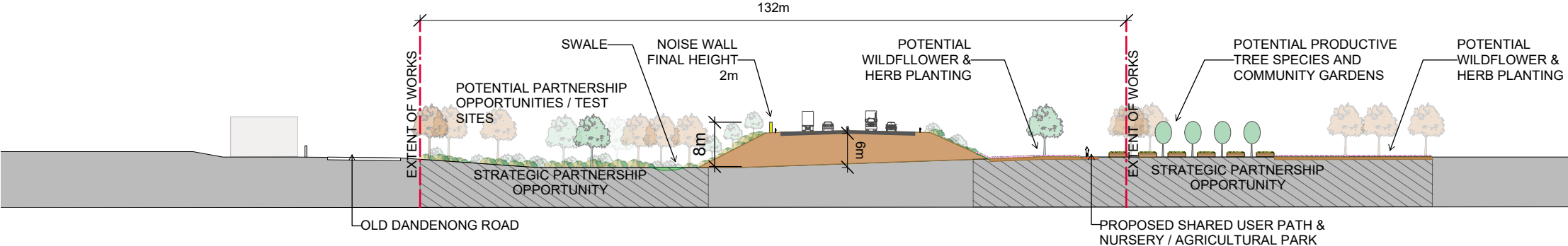
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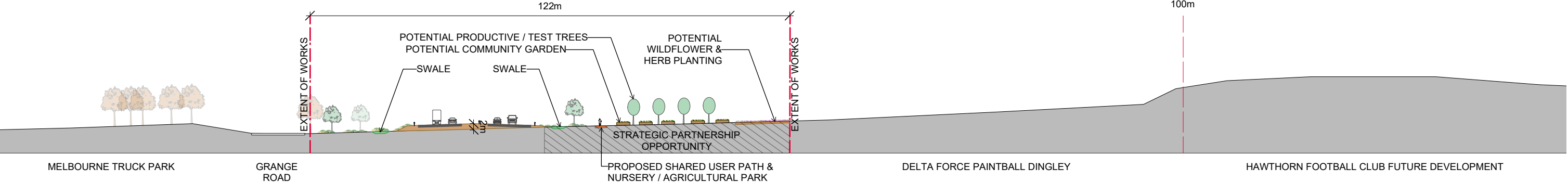
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Revision: C
Cross Sections
Sheet 07 of 16

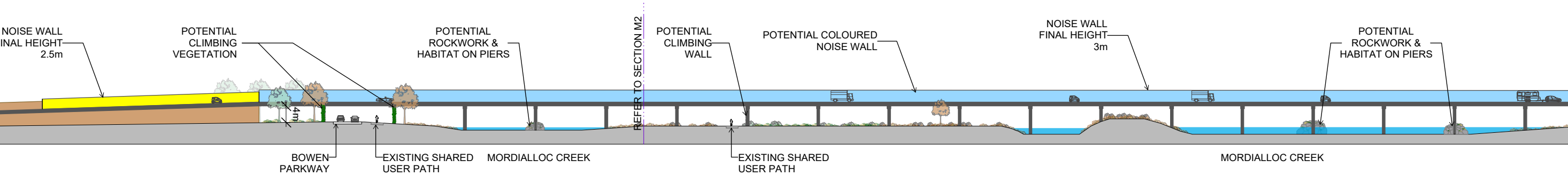
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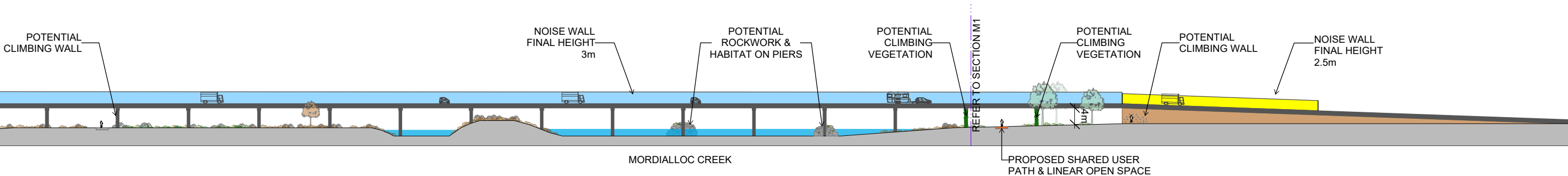
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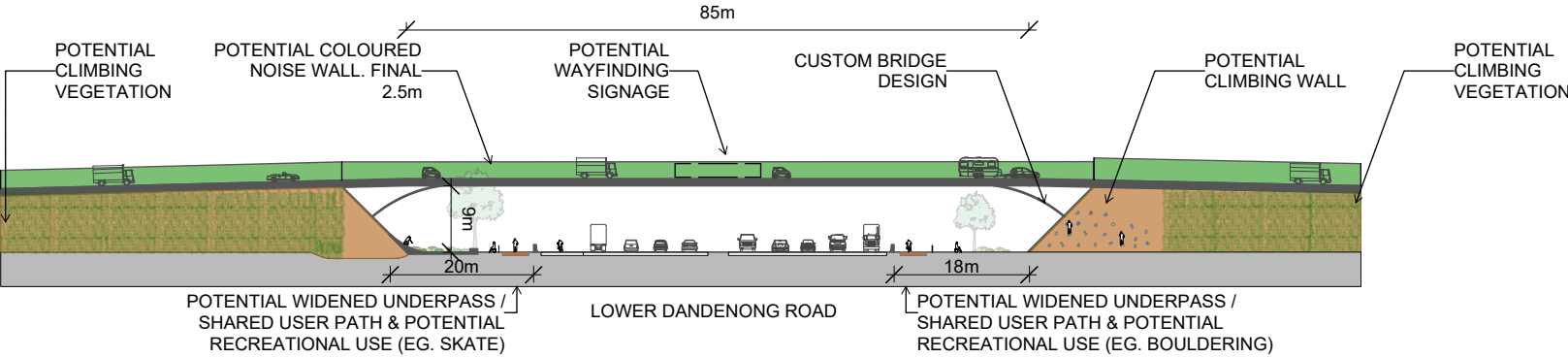
NON-STANDARD MITIGATION CROSS SECTION M1: LOOKING EAST



NON-STANDARD MITIGATION CROSS SECTION M2: LOOKING EAST



NON-STANDARD MITIGATION CROSS SECTION N: LOOKING EAST



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Scale: 1:1000 @ A3

Sheet No.: LS-008
Revision: C
Cross Sections
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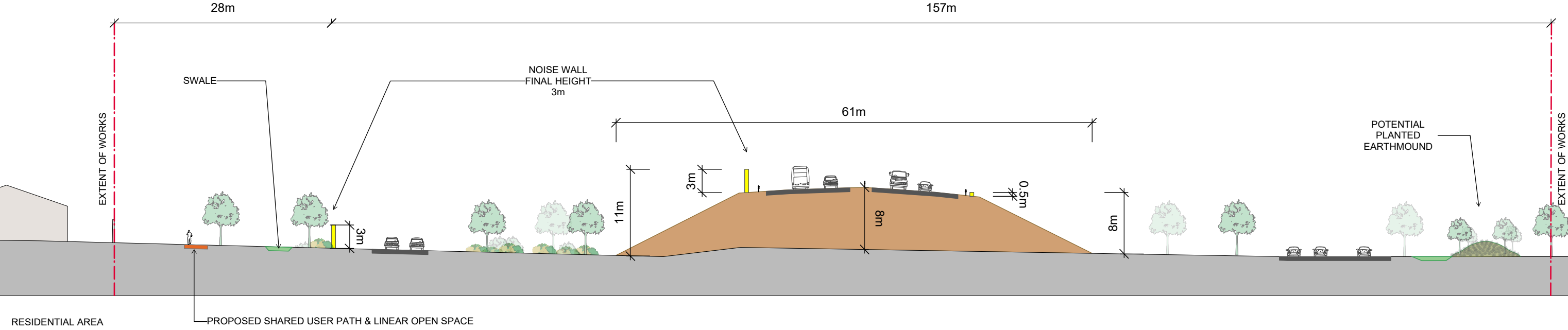
15.1.17 Standard mitigation cross sections A, B, C zoom-in

15.1.18 Standard mitigation cross sections E, F, H zoom-in

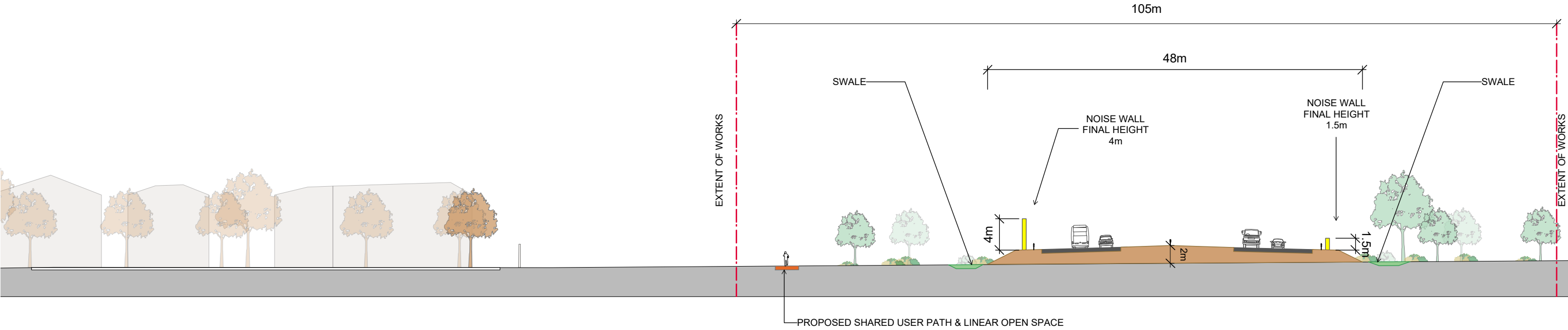
15.1.19 Standard mitigation cross sections I, J, K zoom-in

15.1.20 Standard mitigation cross sections M, N zoom-in

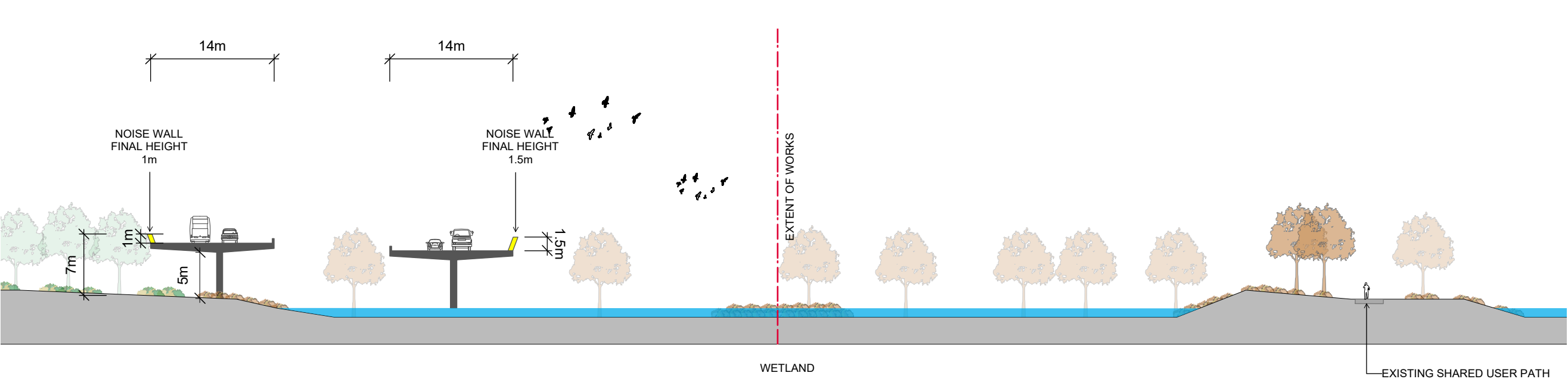
STANDARD MITIGATION CROSS SECTION A ZOOM-IN



STANDARD MITIGATION CROSS SECTION B ZOOM-IN



STANDARD MITIGATION CROSS SECTION C ZOOM-IN



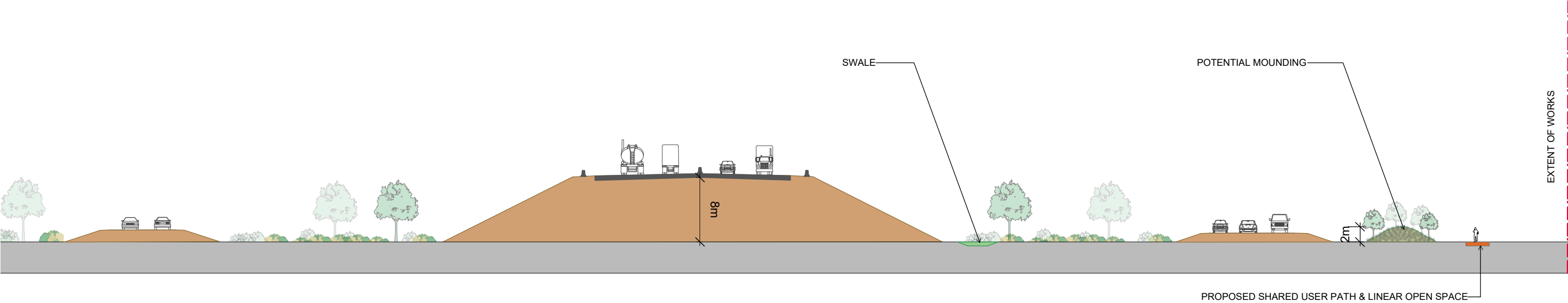
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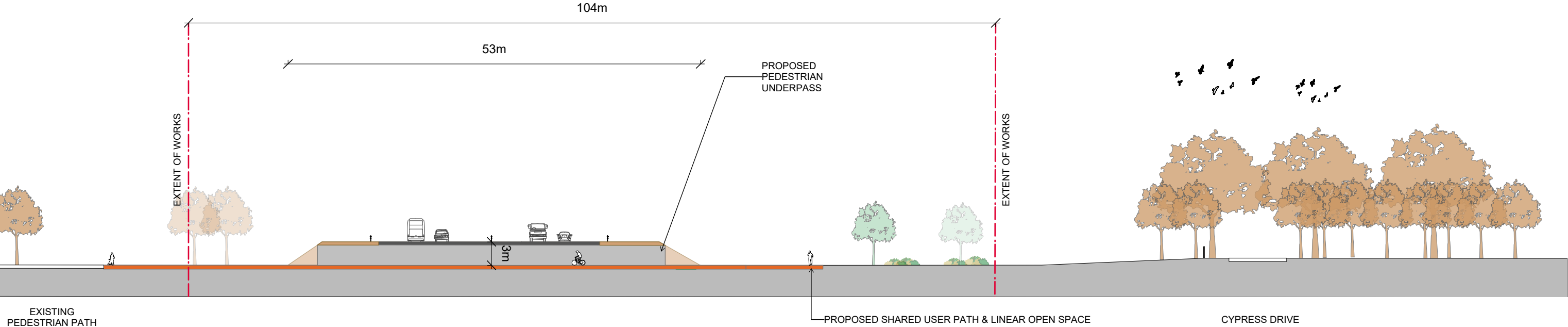
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Revision: C
Cross Sections
Sheet 09 of 16

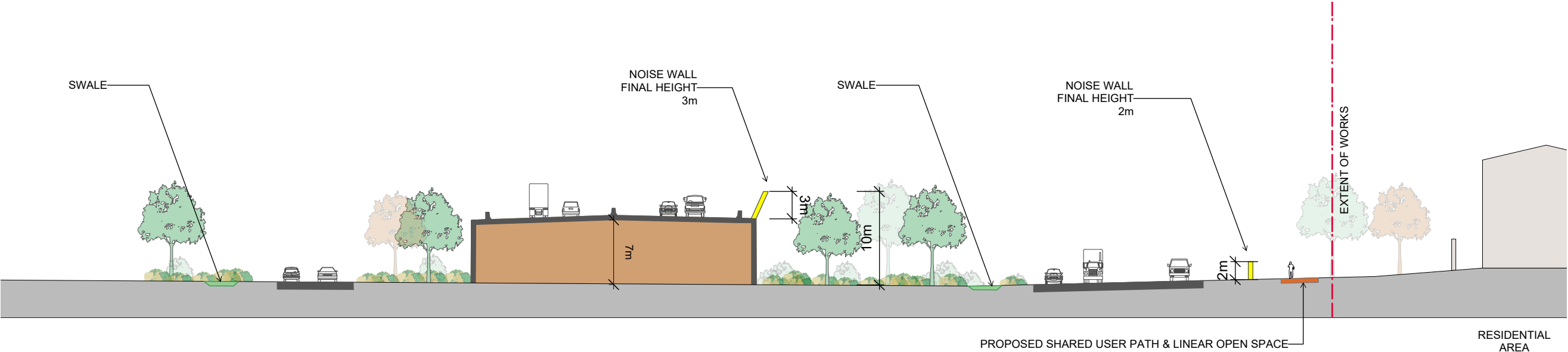
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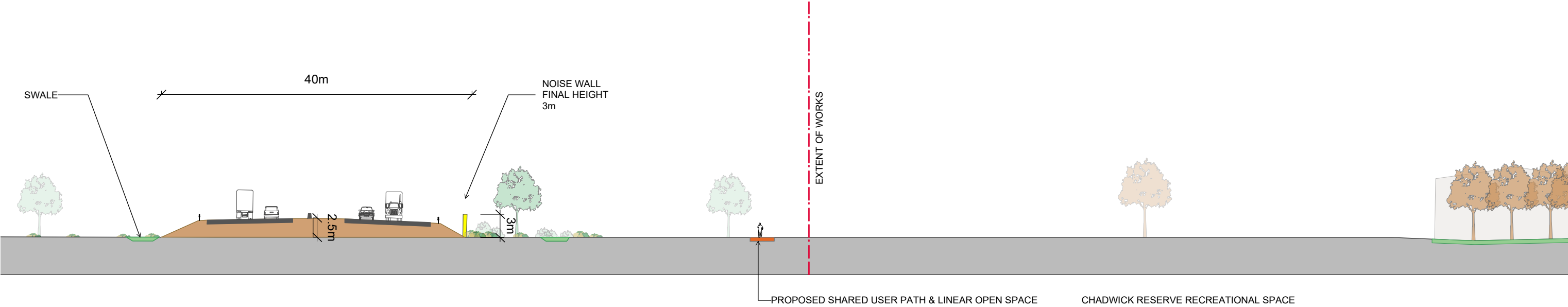
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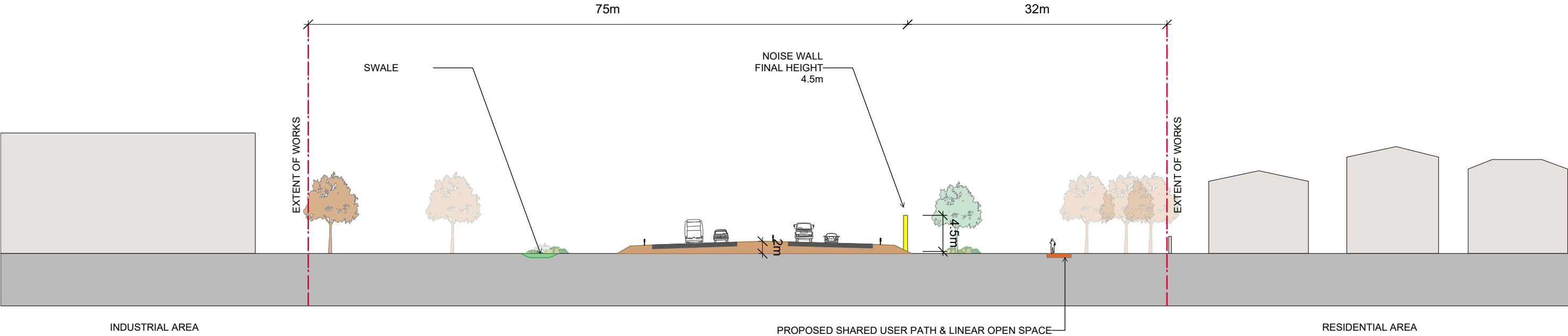
STANDARD MITIGATION CROSS SECTION H ZOOM-IN



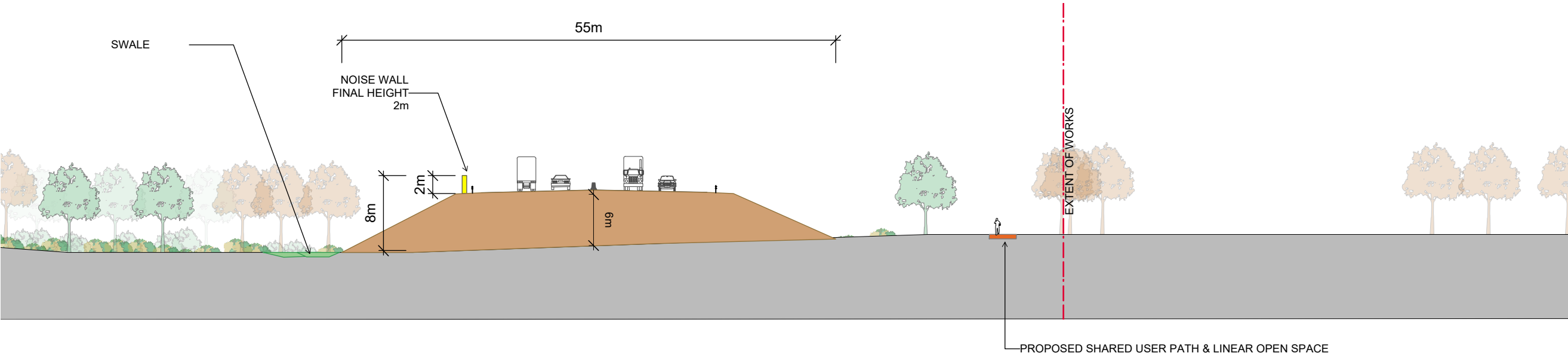
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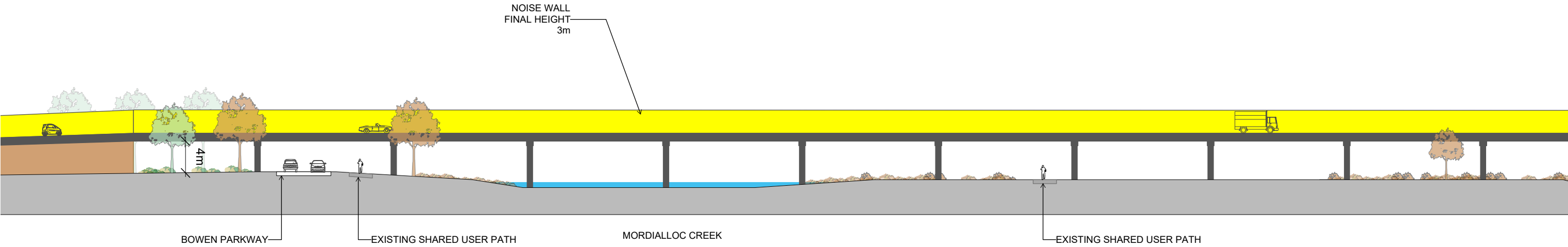
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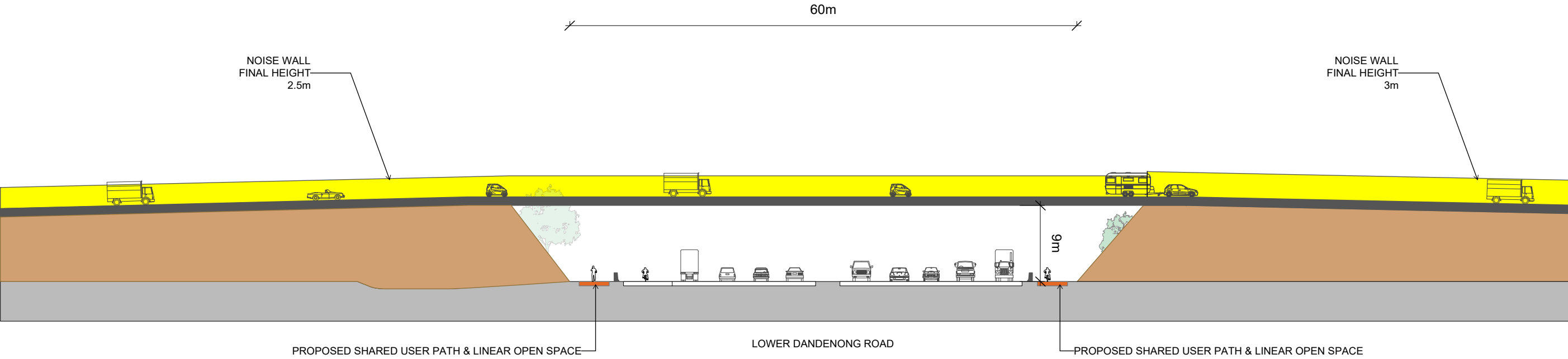
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STANDARD MITIGATION CROSS SECTION M ZOOM-IN



STANDARD MITIGATION CROSS SECTION N ZOOM-IN



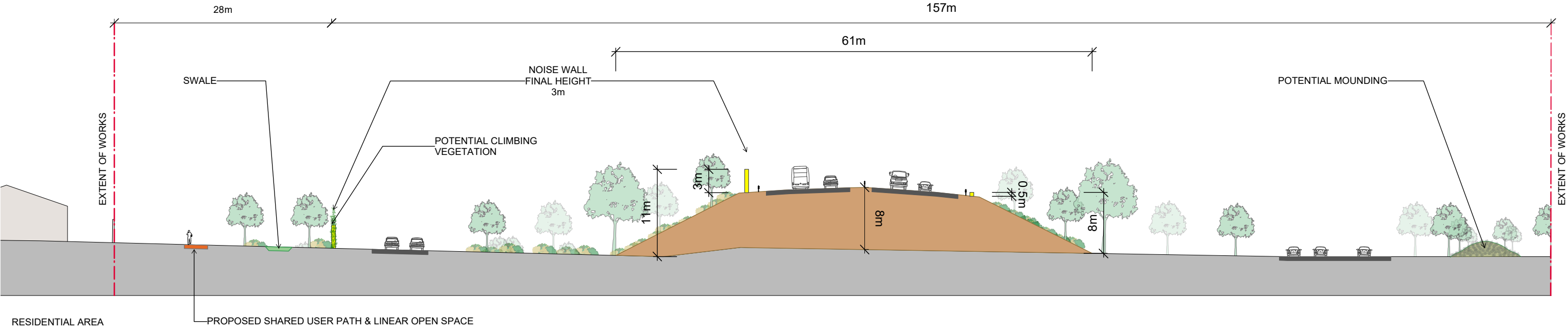
15.1.21 Non-standard mitigation cross sections A, B, C zoom-in

15.1.22 Non-standard mitigation cross sections E, F, H zoom-in

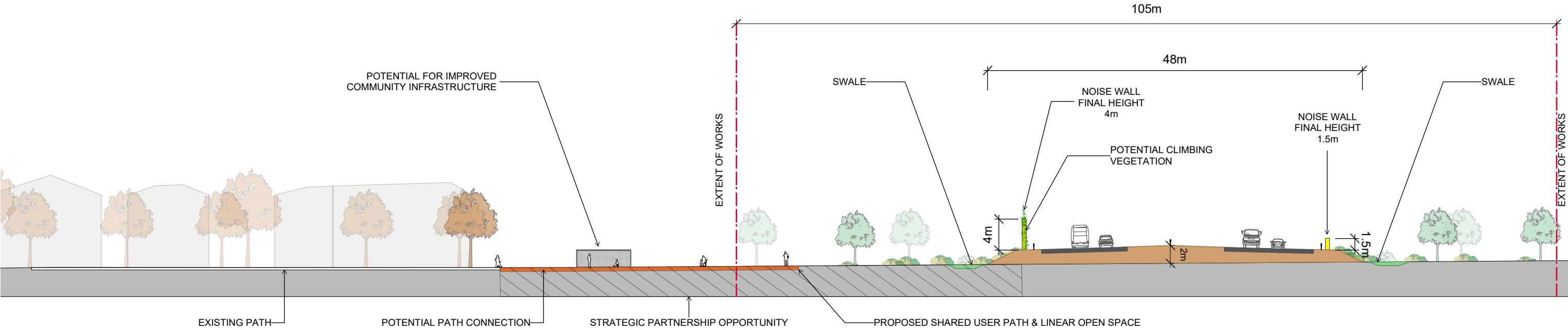
15.1.23 Non-standard mitigation cross sections I, J, K zoom-in

15.1.24 Non-standard mitigation cross sections M, N zoom-in

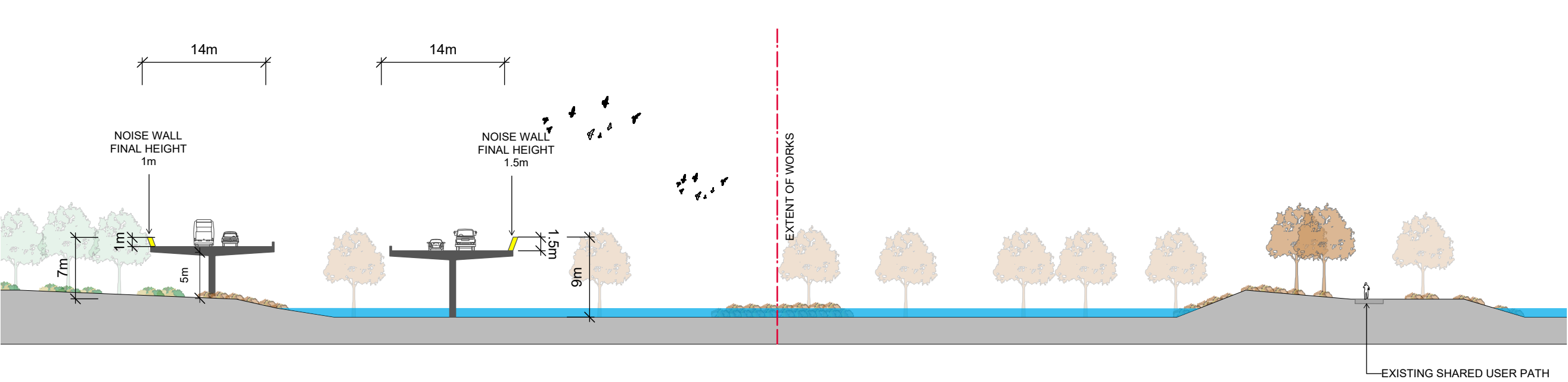
NON-STANDARD MITIGATION CROSS SECTION A ZOOM-IN



NON-STANDARD MITIGATION CROSS SECTION B ZOOM-IN



NON-STANDARD MITIGATION CROSS SECTION C ZOOM-IN



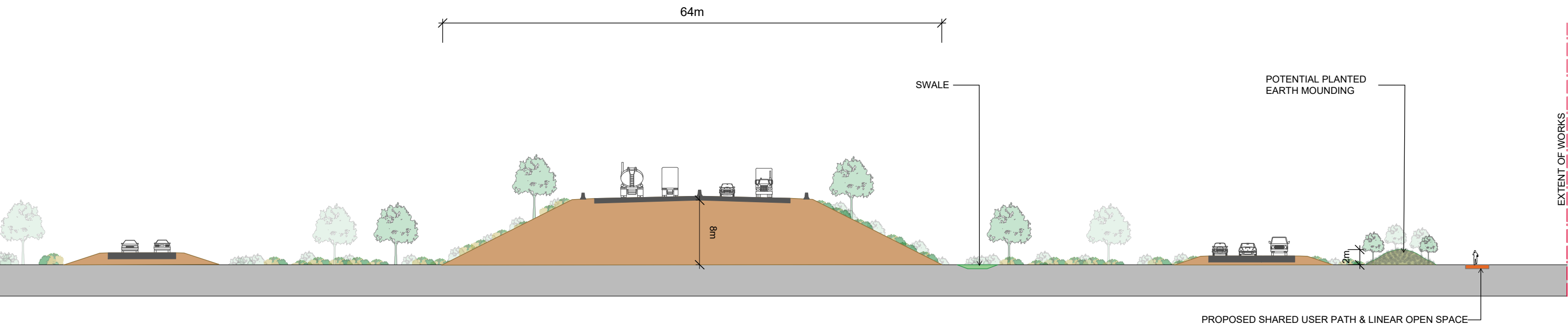
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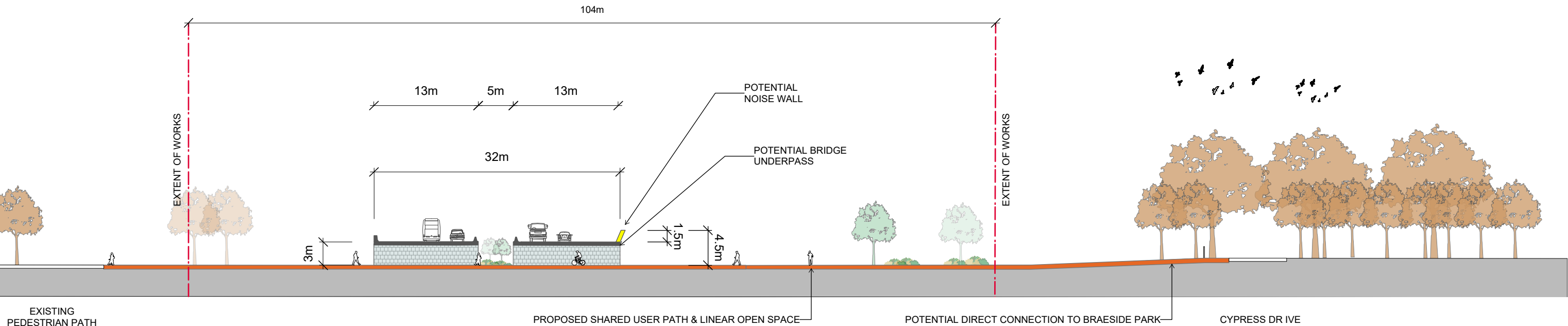
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Sheet No.: LS-013
Revision: C
Cross Sections
Sheet 13 of 16

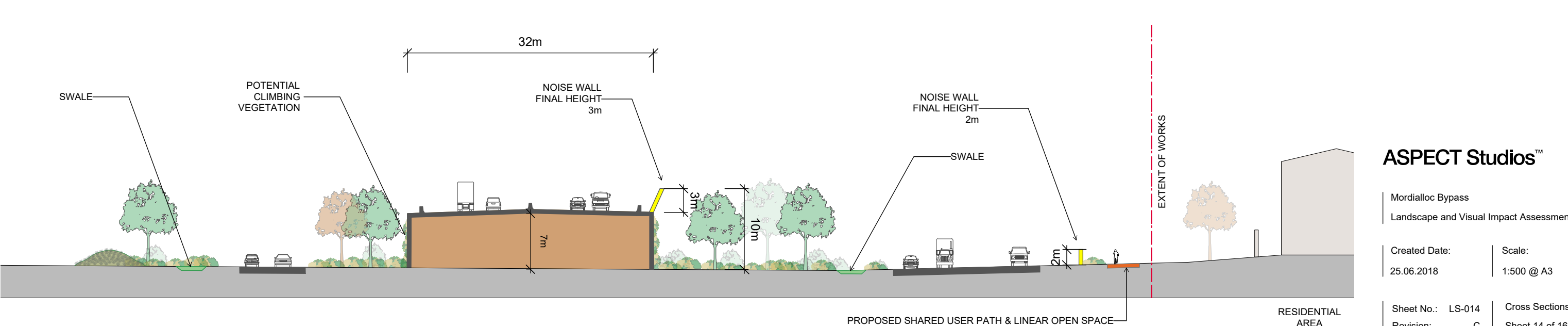
NON-STANDARD MITIGATION CROSS SECTION E ZOOM-IN



NON-STANDARD MITIGATION CROSS SECTION F ZOOM-IN



NON-STANDARD MITIGATION CROSS SECTION H ZOOM-IN



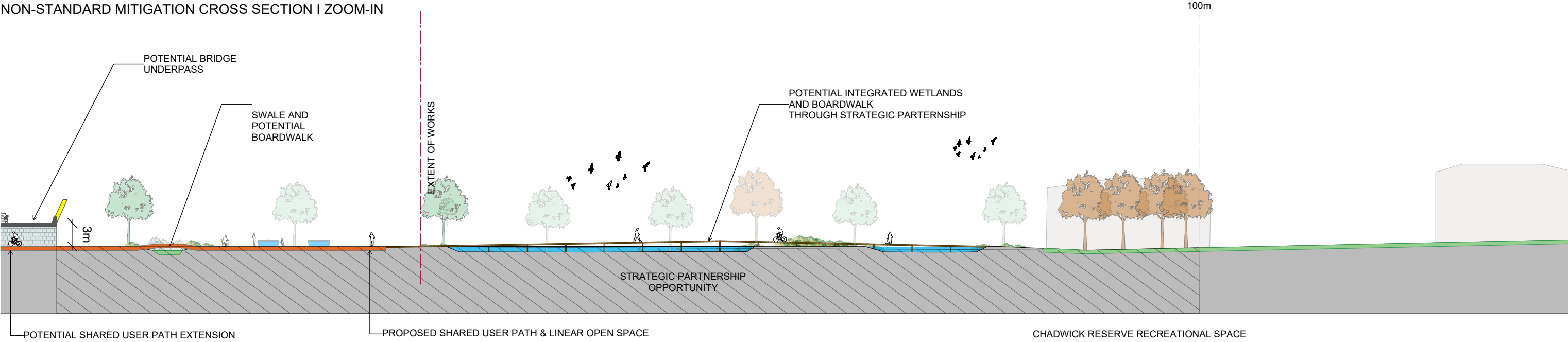
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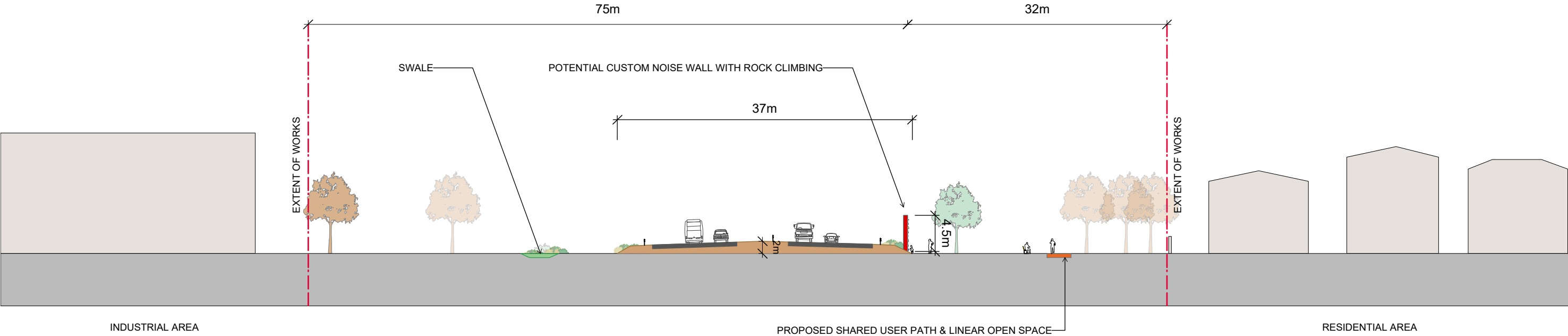
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Cross Sections
Sheet 14 of 16

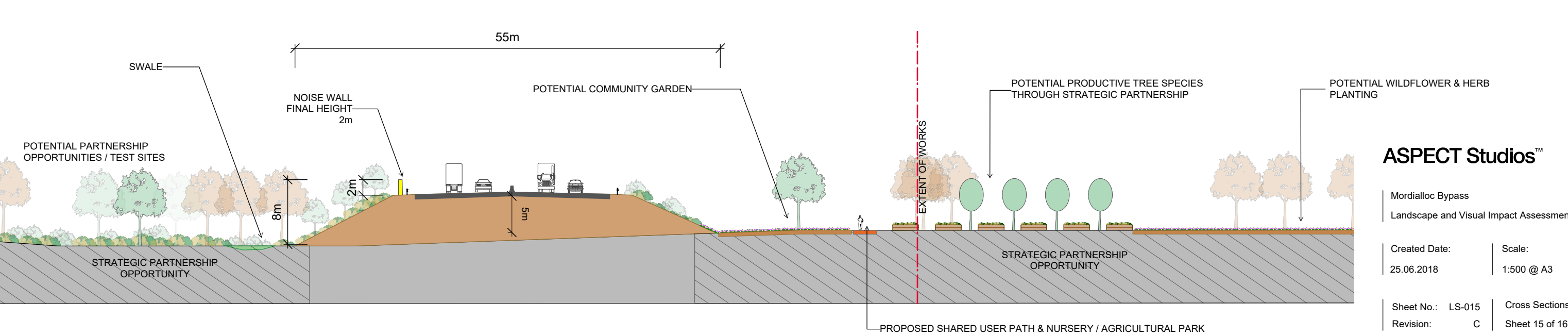
NON-STANDARD MITIGATION CROSS SECTION I ZOOM-IN



NON-STANDARD MITIGATION CROSS SECTION J ZOOM-IN



NON-STANDARD MITIGATION CROSS SECTION K ZOOM-IN



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Created Date: 25.06.2018
Scale: 1:500 @ A3

Sheet No.: LS-015
Revision: C
Cross Sections
Sheet 15 of 16

POTENTIAL CLIMBING VEGETATION

NOISE WALL FINAL HEIGHT 3m

POTENTIAL ROCKWORK & HABITAT ON PIERS

POTENTIAL CLIMBING WALL

POTENTIAL COLOURED NOISE WALL

4m

BOWEN PARKWAY

EXISTING SHARED USER PATH

MORDIALLOC CREEK

EXISTING SHARED USER PATH

85m

POTENTIAL CLIMBING VEGETATION

POTENTIAL COLOURED NOISE WALL. FINAL HEIGHT 2.5m

POTENTIAL WAYFINDING SIGNAGE

CUSTOM BRIDGE DESIGN

POTENTIAL CLIMBING WALL

POTENTIAL CLIMBING VEGETATION

9m

20m

18m

POTENTIAL WIDENED UNDERPASS / SHARED USER PATH & POTENTIAL RECREATIONAL USE (EG. SKATE)

LOWER DANDENONG ROAD

POTENTIAL WIDENED UNDERPASS / SHARED USER PATH & POTENTIAL RECREATIONAL USE (EG. BOULDERING)

15.1.25 Noise wall and bridge design precedents

Noise wall on elevated structure



Clear acrylic



Colour acrylic (green / light green)



Colour acrylic (blue / light blue)



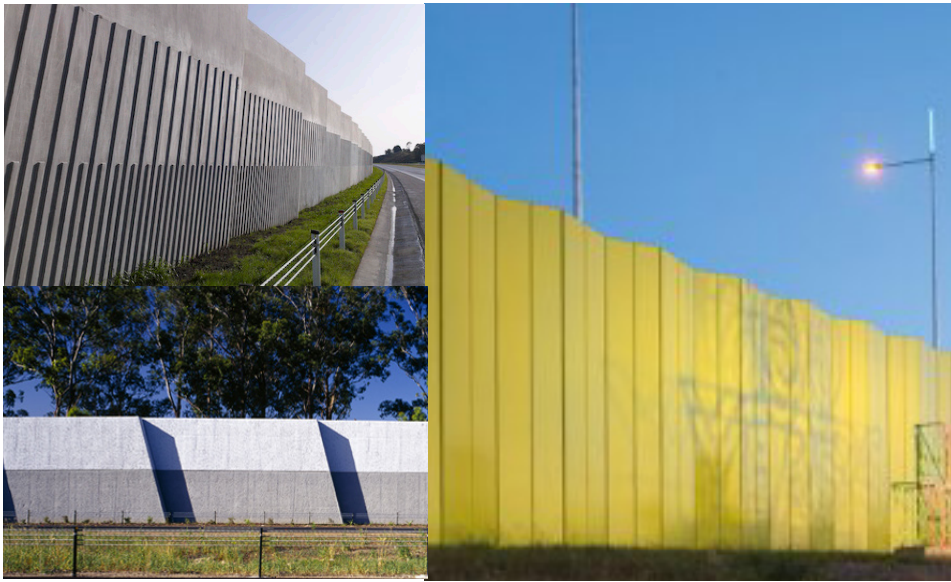
Highlight colour palette in green and blue in recognition of waterways and parkland

Overall palette

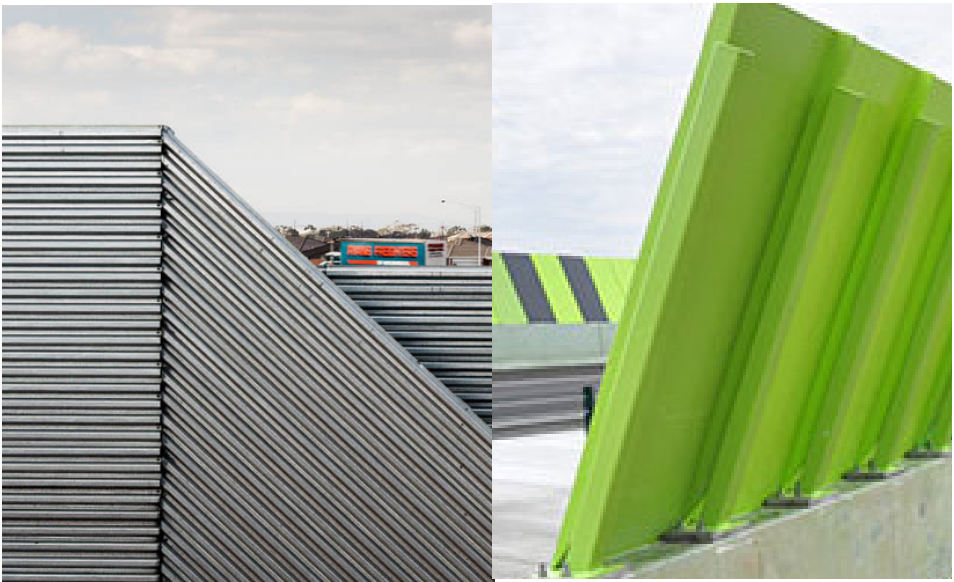
Noise wall on parkland



Pre-cast bespoke textured concrete



Pre-cast colored concrete panels



Metal

Bridge option



Coloured guard rail



Coloured guard rail



Architecturally designed bridge parapet



Primary colour palette in grey and brown with an earthy undertone, in recognition of an ecologically sensitive setting

Overall palette

Bridge abutment



Stone beaching



Tiled abutment



Shotcrete / stamped shotcrete

References

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