

APPENDIX E PREDICTED CONSTRUCTION VIBRATION IMPACTS ON HUMAN COMFORT





Map 1 of 5

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Piling Day

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions -
 (Piling – day)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490579		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Metres
 Coordinate System: GDA 1994 MGA Zone 55



Map 2 of 5

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 VicTrack 2021
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 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
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Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490579	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 3 of 5

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0 10 KM

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Date: 9/08/2021	Map Size: A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM MOTT MACDONALD

Scale: 0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55





Map 1 of 3

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Melbourne Airport Rail
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Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490580		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



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MOTT MACDONALD

0 110 220
Metres
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 Joint Venture MOTT MACDONALD



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AJM MOTT MACDONALD
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Aerial photo:
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Date:	9/08/2021	Map Size:	A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 7 of 15

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J. Rivera	D. Lamer	9/08/2021	A3

Metres
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Map 8 of 15

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Melbourne Airport Rail
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Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

0 110 220 Metres
Coordinate System: GDA 1994 MGA Zone 55

Data Sources:
AJMLV 2021
VicTrack 2021
Vicmap 2021
Aerial photo:
DELWP Apr. 2021

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Map 9 of 15

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J. Rivera	D. Lamer	9/08/2021	A3

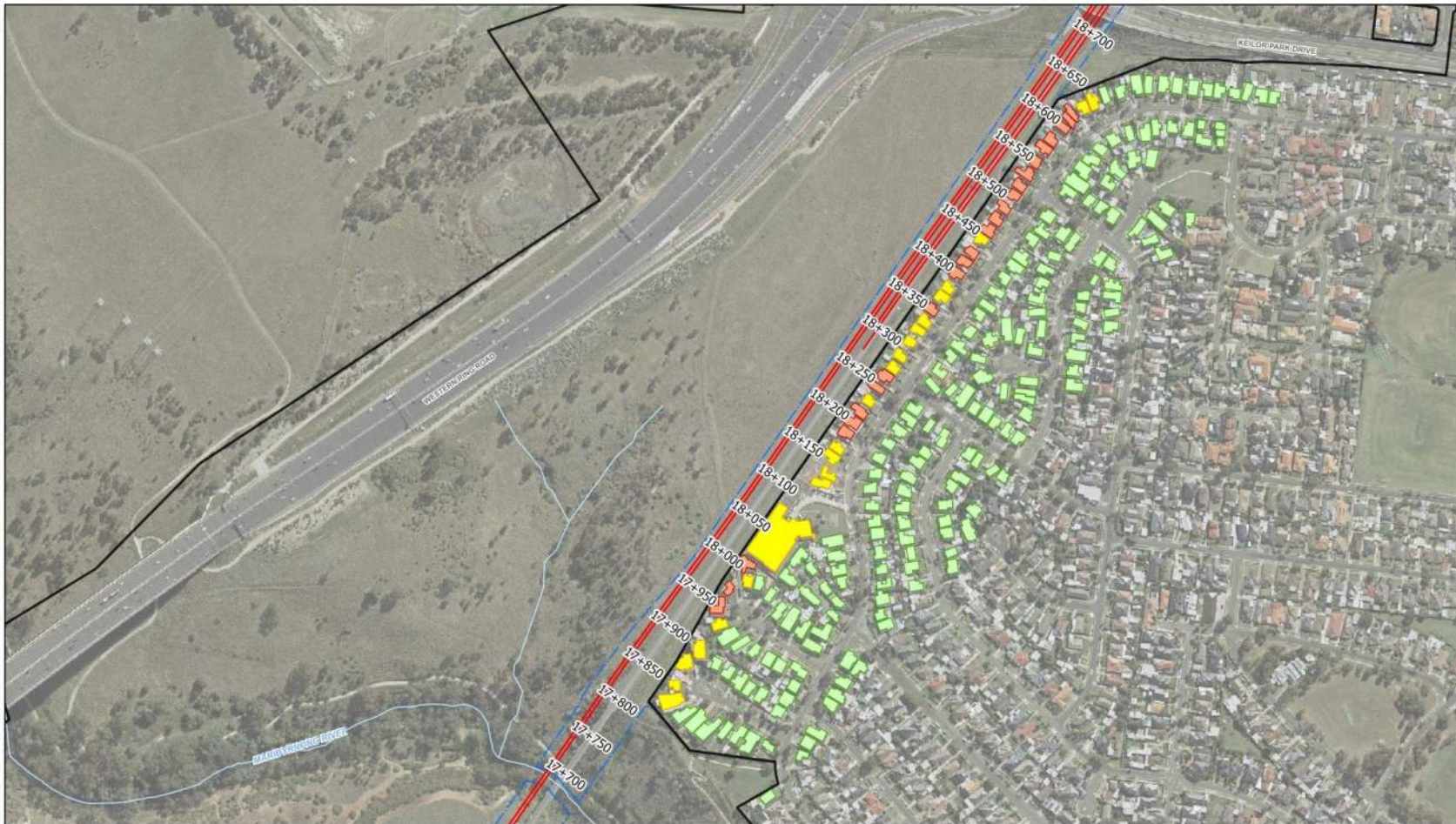
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Metres

Coordinate System: GDA 1994 MGA Zone 55

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Map 10 of 15

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 DELWP Apr. 2021



Melbourne Airport Rail
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Drawn By: J. Rivera Approved By: D. Lamer Date: 9/08/2021 Map Size: A3

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0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 11 of 15

- Rail station
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 VicTrack 2021
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 DELWP Apr. 2021



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Melbourne Airport Rail
Project Wide
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Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490581
 Drawing By: J. Rivera

Revision: A.1
 Approved By: D. Lamer
 Date: 9/08/2021
 Map Size: A3

0 110 220
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Map 12 of 15

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AJM JV 2021
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0 10 KM

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J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



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Melbourne Airport Rail
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0 110 220
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Map 14 of 15

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 DELWP Apr. 2021



Melbourne Airport Rail
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Date: 9/08/2021	Map Size: A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM MOTT MACDONALD Joint Venture

0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55





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Map 1 of 15

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J. Rivera	D. Lamer	9/08/2021	A3

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RAIL PROJECTS VICTORIA

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 (Excavation - night)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490582	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55

RAIL PROJECTS VICTORIA
aurecon JACOBS
AJM MOTT MACDONALD
 Joint Venture





Map 8 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Excavation Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Excavation - night)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490582 Revision: A.1

Drawn By: J. Rivera Approved By: D. Lamer Date: 9/08/2021 Map Size: A3

AJM **aurecon** **JACOBS**
 Joint Venture MOTT MACDONALD

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55





Map 9 of 15

- Rail station
 - VicTrack Reserve Boundary
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 - Assessment Area
- Construction human comfort impact predictions: Excavation Night**
- Maximum criteria predicted to be exceeding at building
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Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



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Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Excavation - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490582		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

0 110 220
Metres

Coordinate System: GDA 1994 MGA Zone 55

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Map 11 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
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- Assessment Area

Construction human comfort impact predictions: Excavation Night

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Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Excavation - night)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490582 Revision: A.1

Drawn By: J. Rivera Approved By: D. Lamer Date: 9/08/2021 Map Size: A3

RAIL PROJECTS VICTORIA
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AJM MOTT MACDONALD

0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 12 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Excavation Night

- Maximum criteria predicted to be exceeding at building
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Data Sources:
AJM JV 2021
VicTrack 2021
Vicmap 2021
Aerial photo:
DELWP Apr. 2021

Melbourne Airport Rail
Project Wide
Construction human comfort (vibration) impact predictions
(Excavation - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490582		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



Map 14 of 15

- Rail station
- VicTrack Reserve Boundary
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Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

0 10 KM

Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Excavation - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490582		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 15 of 15

- Rail station
- VicTrack Reserve Boundary
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Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Excavation - night)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490582 Revision: A.1

Drawn By: J. Rivera Approved By: D. Lamer Date: 9/08/2021 Map Size: A3

RAIL PROJECTS VICTORIA
ajm **aurecon** **JACOBS**
 Joint Venture MOTT MACDONALD

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 1 of 15

- Rail station
- VicTrack Reserve Boundary
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Construction human comfort impact predictions: Roller Day

- Maximum criteria predicted to be exceeding at building
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Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490583	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 2 of 15

- Rail station
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Construction human comfort impact predictions: Roller Day

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Data Sources:
 AJMV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



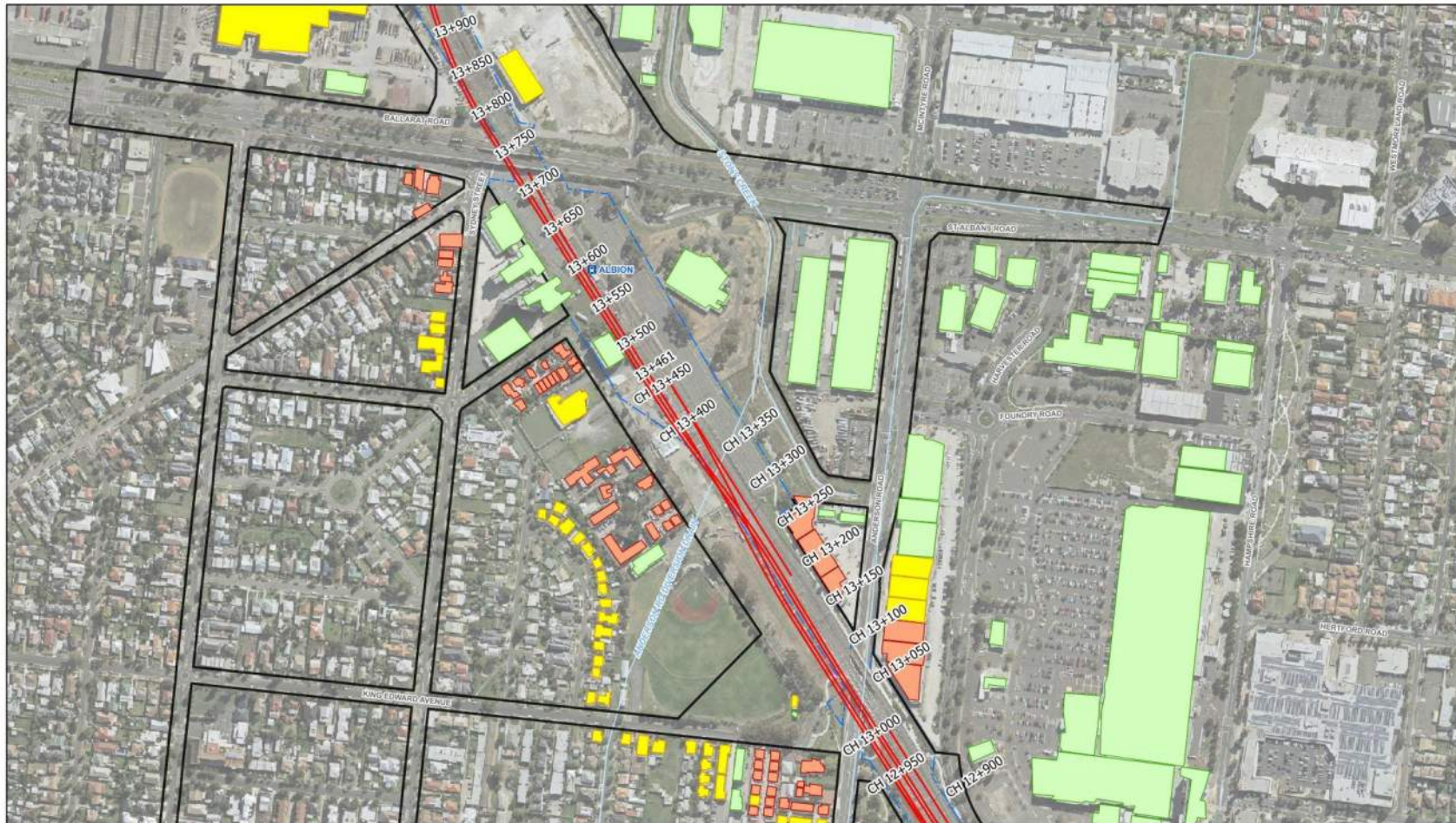
Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490583	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM Joint Venture, MOTT MACDONALD

Scale: 0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55





Map 4 of 15

- Rail station
- VicTrack Reserve Boundary
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Construction human comfort impact predictions: Roller Day

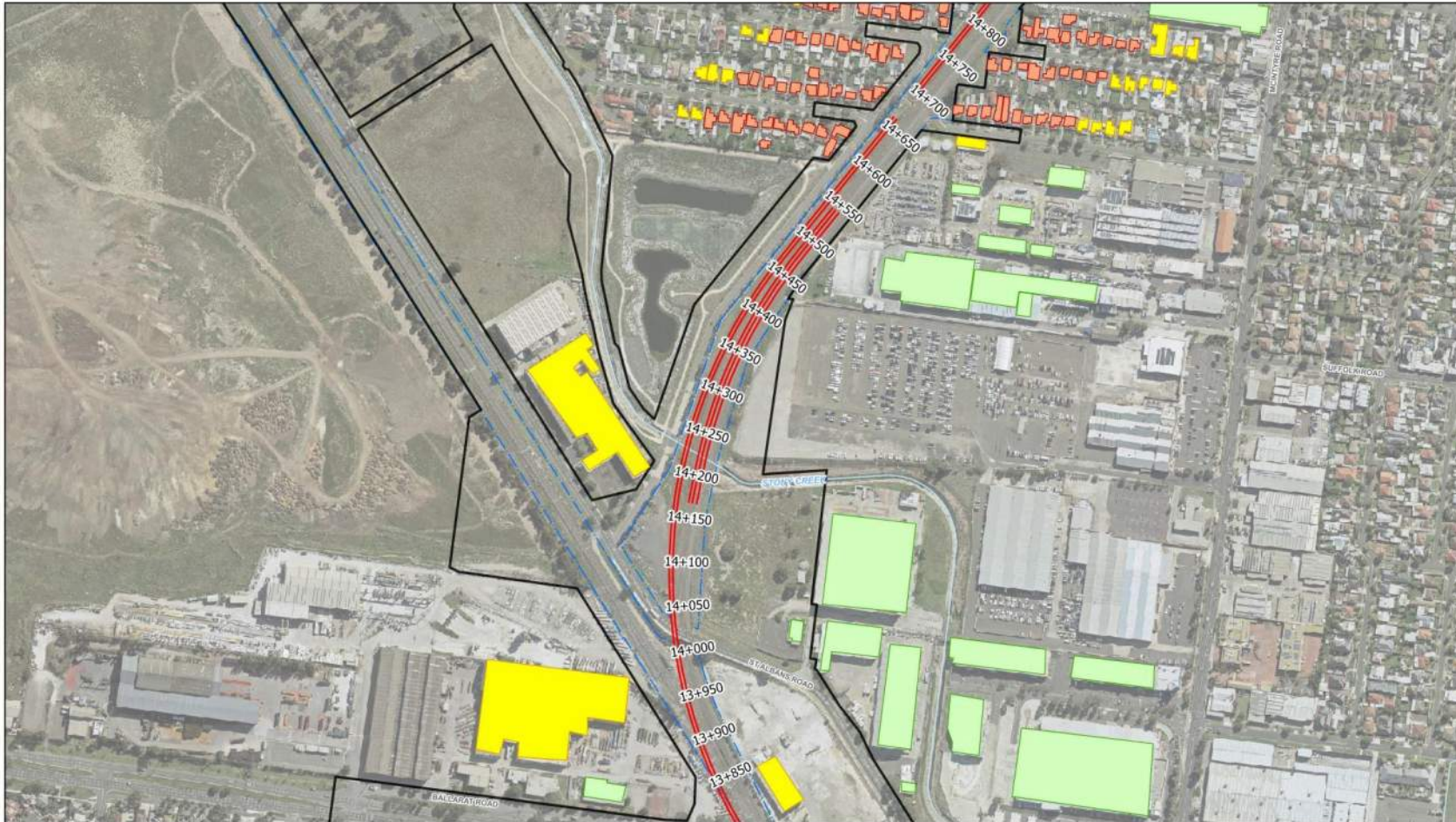
- Maximum criteria predicted to be exceeding at building
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- No predicted exceedance

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

Drawing Number:		Revision:	
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Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



Map 5 of 15

- Rail station
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Data Sources:
AJM JV 2021
VicTrack 2021
Vicmap 2021
Aerial photo:
DELWP Apr. 2021

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Melbourne Airport Rail
Project Wide
Construction human comfort (vibration) impact predictions
(Roller - day)

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Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Metres
Coordinate System: GDA 1994 MGA Zone 55



Map 6 of 15

- Rail station
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Data Sources:
 AJMLJV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

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Melbourne Airport Rail
Project Wide
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0 110 220
Metres

Coordinate System: GDA 1994 MGA Zone 55



Map 7 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Day

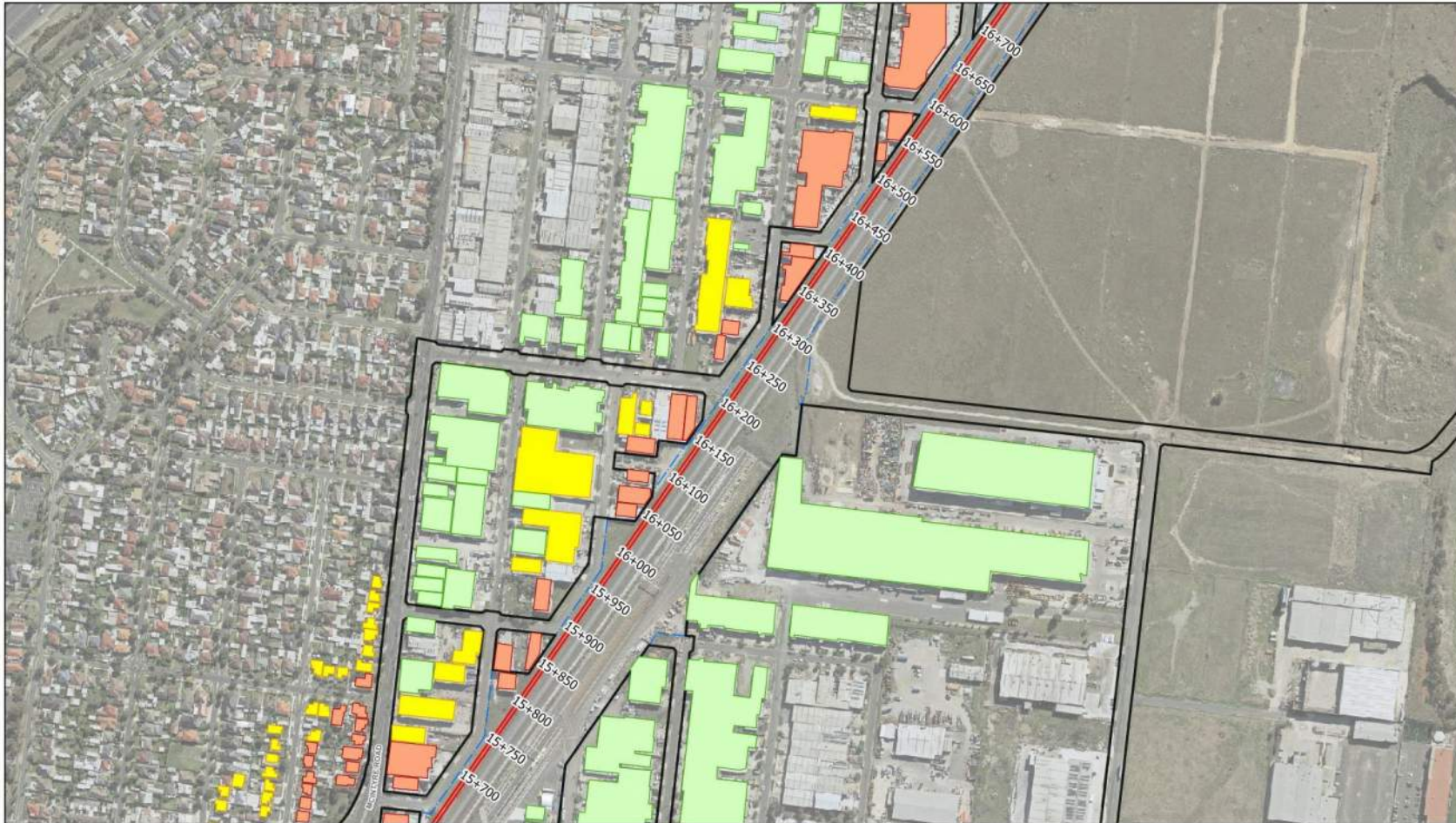
- Maximum criteria predicted to be exceeding at building
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Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

Melbourne Airport Rail
Project Wide
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 (Roller - day)

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Drawn By:	Approved By:	Date:	Map Size:
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Coordinate System: GDA 1994 MGA Zone 55



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- Rail station
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 AJMJV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
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Metres
 Coordinate System: GDA 1994 MGA Zone 55



Map 9 of 15

- Rail station
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Data Sources:
 AJM/JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



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Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490583		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

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Metres

Coordinate System: GDA 1994 MGA Zone 55

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Map 10 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Day

- Maximum criteria predicted to be exceeding at building
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Data Sources:
AJMLV 2021
VicTrack 2021
Vicmap 2021
Aerial photo:
DELWP Apr. 2021

Melbourne Airport Rail
Project Wide
Construction human comfort (vibration) impact predictions
(Roller - day)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490583		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Metres
Coordinate System: GDA 1994 MGA Zone 55



Map 11 of 15

- Rail station
- VicTrack Reserve Boundary
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- Watercourse
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Construction human comfort impact predictions: Roller Day

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Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

Drawing Number:	Revision:		
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Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Joint Venture MOTT MACDONALD

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 12 of 15

- Rail station
 - VicTrack Reserve Boundary
 - Rail Alignment (Baseline)
 - Watercourse
 - Assessment Area
- Construction human comfort impact predictions: Roller Day**
- Maximum criteria predicted to be exceeding at building
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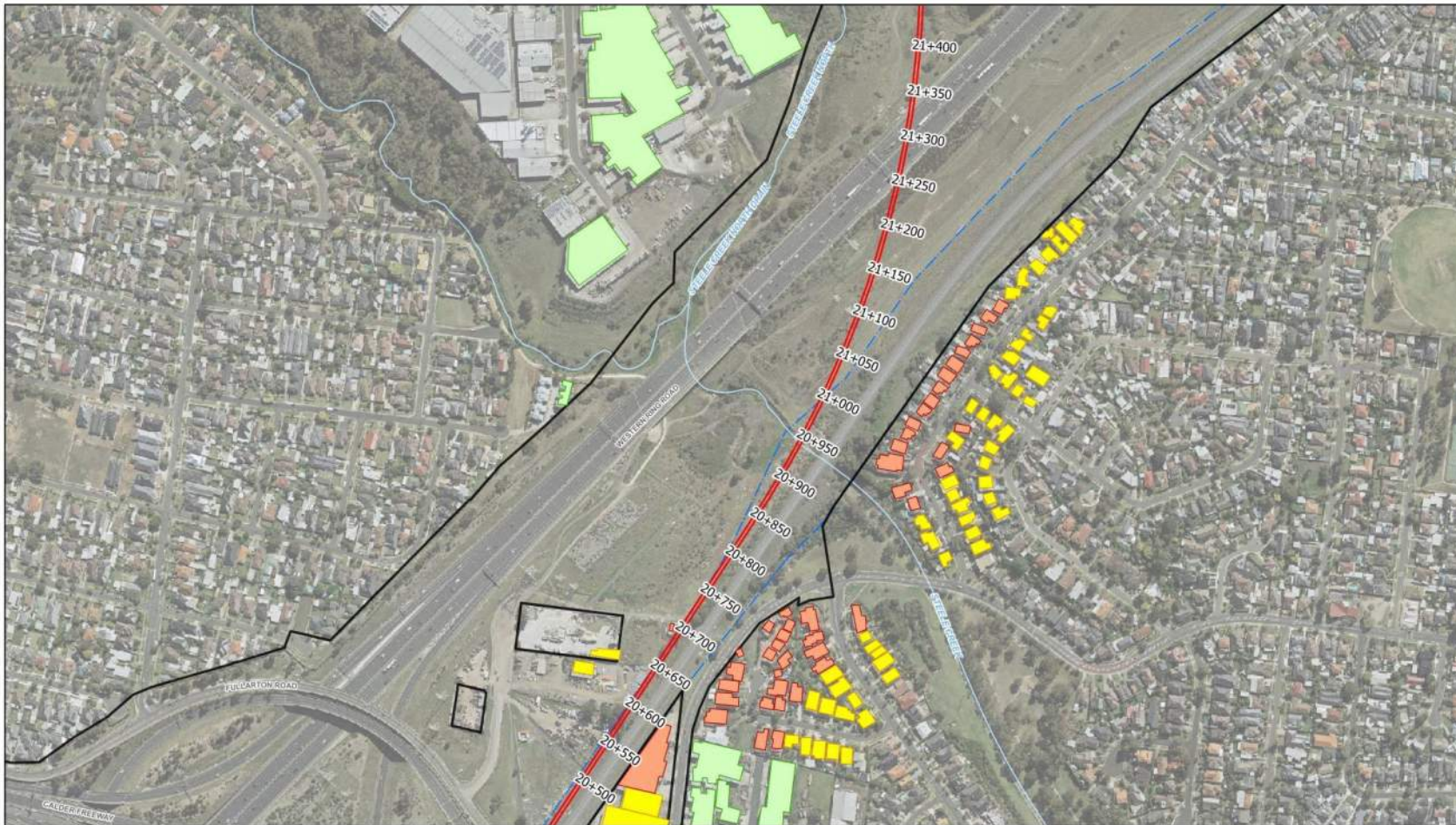
Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

Drawing Number:		Revision:	
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Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



- Rail station
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Map 13 of 15



Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

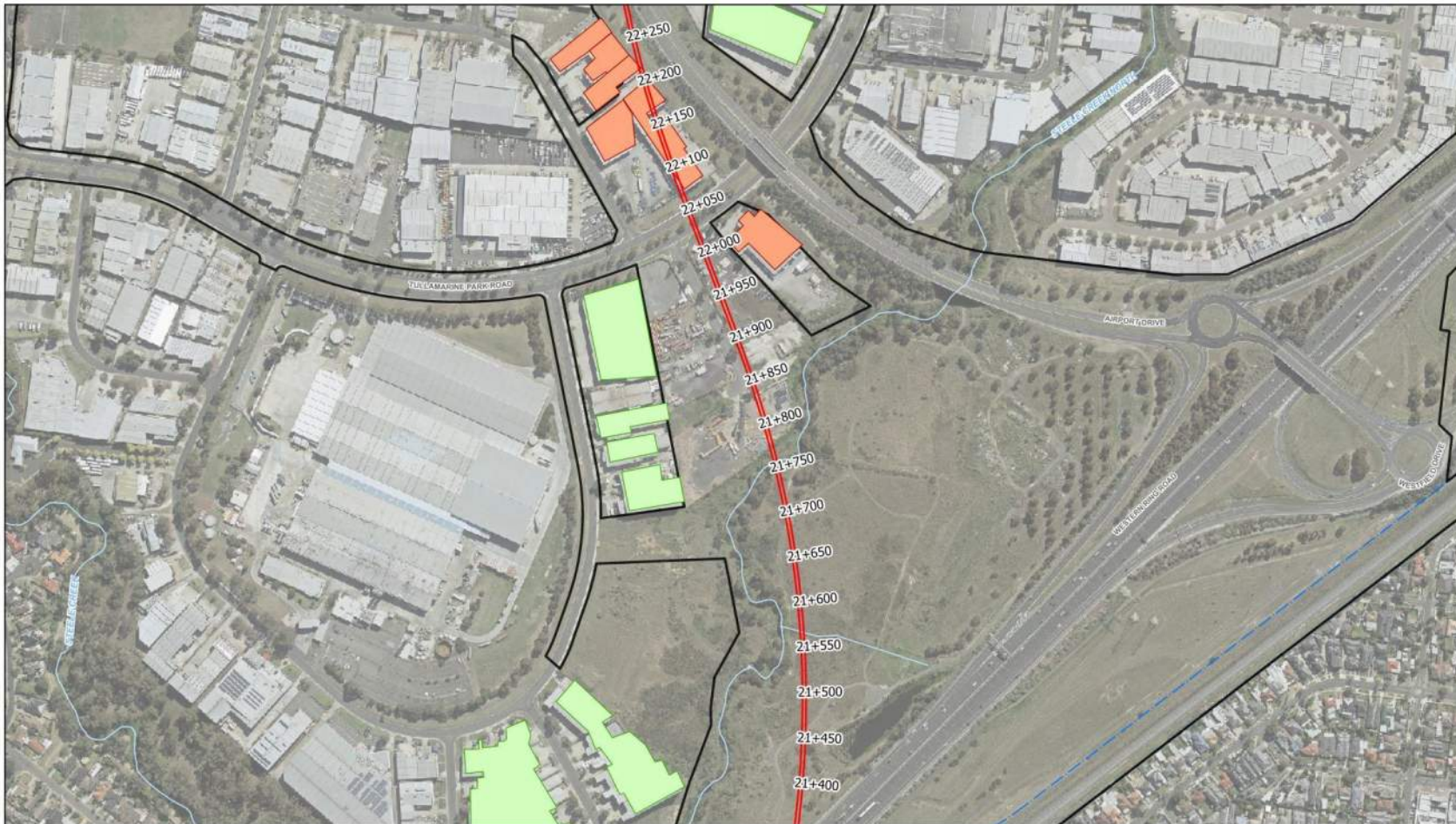
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Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Joint Venture

MOTT MACDONALD

0 110 220
Metres
Coordinate System: GDA 1994 MGA Zone 55





Map 14 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
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Construction human comfort impact predictions: Roller Day

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Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
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Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490583		Revision: A.1	
Drawn By: J. Rivera	Approved By: D. Lamer	Date: 9/08/2021	Map Size: A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM Joint Venture, MOTT MACDONALD

Scale: 0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55





Map 15 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Day

- Maximum criteria predicted to be exceeding at building
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Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - day)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490583	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM Joint Venture, MOTT MACDONALD

0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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■ Rail station
— VicTrack Reserve Boundary
— Rail Alignment (Baseline)
— Watercourse
 Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
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Map 1 of 15



Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - night)

Drawing Number:	Revision:
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Drawn By:	Approved By:
J. Rivera	D. Lamer
Date:	Map Size:
9/08/2021	A3

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 Metres
 Coordinate System: GDA 1994 MGA Zone 55

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Map 2 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
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Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - night)

Drawing Number:	Revision:		
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584	A.1		
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM Joint Venture, MOTT MACDONALD

Scale: 0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55





Map 3 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
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Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - night)

Drawing Number:		Revision:	
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Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM Joint Venture, MOTT MACDONALD

Scale: 0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 4 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
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Data Sources:
 AJJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

Melbourne Airport Rail
Project Wide
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Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



Map 5 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- ▭ Assessment Area

Construction human comfort impact predictions: Roller Night

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Data Sources:
AJM JV 2021
VicTrack 2021
Vicmap 2021
Aerial photo:
DELWP Apr. 2021

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Melbourne Airport Rail
Project Wide
Construction human comfort (vibration) impact predictions
(Roller - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Metres
Coordinate System: GDA 1994 MGA Zone 55



Map 6 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

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Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
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Melbourne Airport Rail
Project Wide
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J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



Map 7 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
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- Assessment Area

Construction human comfort impact predictions: Roller Night

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 AJM JV 2021
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0 10 KM

Melbourne Airport Rail
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J. Rivera	D. Lamer	9/08/2021	A3

Coordinate System: GDA 1994 MGA Zone 55



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- Rail station
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- Construction human comfort impact predictions: Roller Night**
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Data Sources:
 AJM JV 2021
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 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
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Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Metres
 Coordinate System: GDA 1994 MGA Zone 55



Map 9 of 15

- Rail station
 - VicTrack Reserve Boundary
 - Rail Alignment (Baseline)
 - Watercourse
 - Assessment Area
- Construction human comfort impact predictions: Roller Night**
- Maximum criteria predicted to be exceeding at building
 - Preferred criteria predicted to be exceeding at building
 - No predicted exceedance

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



RAIL PROJECTS VICTORIA

aurecon JACOBS MOTT MACDONALD

Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions (Roller - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

0 110 220

Metres

Coordinate System: GDA 1994 MGA Zone 55



Map 10 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance

Data Sources:
AJMLV 2021
VicTrack 2021
Vicmap 2021
Aerial photo:
DELWP Apr. 2021

0 10 KM

Melbourne Airport Rail
Project Wide
Construction human comfort (vibration) impact predictions
(Roller - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

0 110 220
Metres
Coordinate System: GDA 1994 MGA Zone 55



Map 11 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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Map 12 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021

0 10 KM

Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Metres
 Coordinate System: GDA 1994 MGA Zone 55



Map 14 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance

Data Sources:
 AJMLV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - night)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55





Map 15 of 15

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Roller Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Roller - night)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490584	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

Logos: RAIL PROJECTS VICTORIA, aurecon, JACOBS, AJM Joint Venture, MOTT MACDONALD

0 110 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55



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- Rail station
 - VicTrack Reserve Boundary
 - Rail Alignment (Baseline)
 - Watercourse
 - Assessment Area
- Construction human comfort impact predictions: Carpark Construction Day**
- Maximum criteria predicted to be exceeding at building
 - Preferred criteria predicted to be exceeding at building
 - No predicted exceedance

Map 1 of 2

Data Sources:
 AJMJV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Carpark construction - day)

Drawing Number:		Revision:	
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490585		A.1	
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

Metres
 Coordinate System: GDA 1994 MGA Zone 55



- Rail station
 - VicTrack Reserve Boundary
 - Rail Alignment (Baseline)
 - Watercourse
 - Assessment Area
- Construction human comfort impact predictions: Carpark Construction Day**
- Maximum criteria predicted to be exceeding at building
 - Preferred criteria predicted to be exceeding at building
 - No predicted exceedance

Map 2 of 2

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide
 Construction human comfort (vibration) impact predictions
 (Carpark construction - day)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490585		Revision: A.1	
Drawn By: J. Rivera	Approved By: D. Lamer	Date: 9/08/2021	Map Size: A3

Coordinate System: GDA 1994 MGA Zone 55



Map 1 of 2

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Construction human comfort impact predictions: Carpark Construction Night

- Maximum criteria predicted to be exceeding at building
- Preferred criteria predicted to be exceeding at building
- No predicted exceedance

Data Sources:
 AJMJV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Carpark construction - night)

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490586	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lamer
Date: 9/08/2021	Map Size: A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55





- Rail station
 - VicTrack Reserve Boundary
 - Rail Alignment (Baseline)
 - Watercourse
 - Assessment Area
- Construction human comfort impact predictions: Carpark Construction Night**
- Maximum criteria predicted to be exceeding at building
 - Preferred criteria predicted to be exceeding at building
 - No predicted exceedance

Map 2 of 2

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
Project Wide
 Construction human comfort (vibration) impact predictions
 (Carpark construction - night)

Drawing Number:	Revision:		
MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490586	A.1		
Drawn By:	Approved By:	Date:	Map Size:
J. Rivera	D. Lamer	9/08/2021	A3

0 110 220
 Metres
 Coordinate System: GDA 1994 MGA Zone 55



APPENDIX F PREDICTED OPERATIONAL VIBRATION IMPACTS





Map 1 of 1

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Human comfort impact predictions: eVDV day

- Predicted exceedance to preferred criteria
- Predicted compliant

Data Sources:
AJM JV 2021
VicTrack 2021
Vicmap 2021
Aerial photo:
DELWP Apr. 2021

0 10 KM

Melbourne Airport Rail
Project Wide

Human Comfort: eVDV - Day

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490700		Revision: A.1	
Drawn By: J. Rivera	Approved By: D. Lamer	Date: 9/08/2021	Map Size: A3

Coordinate System: GDA 1994 MGA Zone 55



Map 1 of 1

- Rail station
- VicTrack Reserve Boundary
- Rail Alignment (Baseline)
- Watercourse
- Assessment Area

Human comfort impact predictions: eVDV night

- Predicted exceedance to preferred criteria
- Predicted compliant

Data Sources:
 AJM JV 2021
 VicTrack 2021
 Vicmap 2021
 Aerial photo:
 DELWP Apr. 2021



Melbourne Airport Rail
 Project Wide

Human Comfort: eVDV - Night

Drawing Number: MAR-AJM-PWD-PWD-MAP-XAV-MMN-0490701	Revision: A.1
Drawn By: J. Rivera	Approved By: D. Lerner
Date: 9/08/2021	Map Size: A3

Scale: 0 to 220 Metres
 Coordinate System: GDA 1994 MGA Zone 55

RAIL PROJECTS VICTORIA
aurecon JACOBS
AJM MOTT MACDONALD
 Joint Venture





Joint Venture

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aurecon | **Jacobs** | **MOTT**
MACDONALD ^M **M**