



Legend

- Alignment
- Tunnel

Station Locations
- Groundborne Noise Contours
- 30dB

31dB

32dB

33dB

34dB

35dB

36dB

37dB

38dB

39dB

40dB

41dB

42dB

43dB

44dB

45dB

46dB

47dB

48dB

49dB

50dB

51dB

52dB

53dB

54dB

55dB

56dB

57dB

58dB

59dB

60dB



P02	14/2/24	Final Issue		JL	RH	RH	NC
Rev.	Date	Purpose of revision		Drawn	Check'd	Rev'd	Appr'd
<div>JACOBS</div> <div>IDOM</div>							
Client		<div>TII</div> <div>Bonneagair Iompair Éireann</div> <div>Transport Infrastructure Ireland</div>					
Project		<div>METROLINK</div>					
Drawing Title		Figure 14.2 Groundborne Noise from Tunnel Boring Machine Sheet 6 of 7					
Drawing Status		FINAL					
Scale @ A3		1:10,000			DO NOT SCALE		
Jacobs No.		32108600					
Client No.							
Drawing No.		ML1-JAI-EIA-ROUT_XX-DR-Y-14008					Rev P02
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							





### Legend

Alignment

Tunnel

Station Locations

Groundborne Noise Contours

30dB

31dB

32dB

33dB

34dB

35dB

36dB

37dB

38dB

39dB

40dB

41dB

42dB

43dB

44dB

45dB

46dB

47dB

48dB

49dB

50dB

51dB

52dB

53dB

54dB

55dB

56dB

57dB

58dB

59dB

60dB

P02	14/2/24	Final Issue	JL	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd

JACOBS  
IDOM

Client

Project

METROLINK

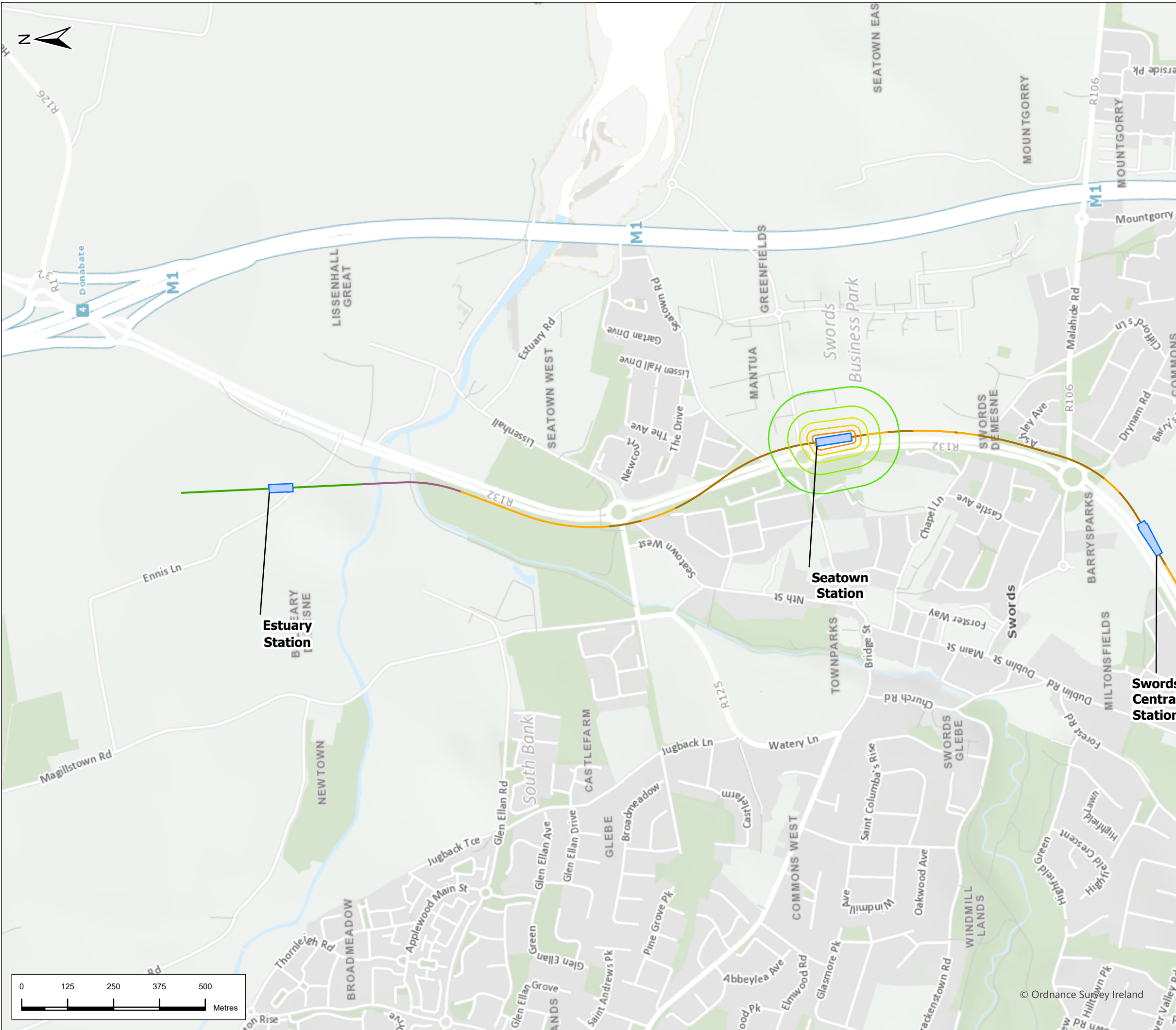
Drawing Title

Figure 14.2 Groundborne Noise from Tunnel Boring Machine  
Sheet 7 of 7

Drawing Status		FINAL
Scale @ A3	1:10,000	DO NOT SCALE
Jacobs No.	32108600	
Client No.		
Drawing No.	ML1-JAI-EIA-ROUT_XX-DR-Y-14009	Rev P02

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### Legend

#### Alignment

- Cut & Cover
- Retained Cut
- Surface
- Viaduct
- Station Locations

#### Mechanical Excavation Contours

- 20dB
- 25dB
- 30dB
- 35dB
- 40dB
- 45dB

P02	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

JACOBS  
IDOM

Client  
TII  
Bonneagar Iompair Éireann  
Transport Infrastructure Ireland

Project  
METROLINK

Drawing Title  
Figure 14.3 Groundborne Noise from Mechanical Excavation  
Sheet 1 of 7

Drawing Status  
FINAL

Scale @ A3  
1:10,000  
DO NOT SCALE

JACOBS No.  
32108600

Client No.

Drawing No.  
ML1-JAI-EIA-ROUT\_XX-DR-Y-14011

Rev  
P02

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Path: \\europa-jacobs.com\Dublin\DATA\3\Sustainable Solutions\Metro North\11 - Mapping\Working\ESAR\_Drawing\CH 14 - Fig 14.3 Groundborne Noise from Mechanical Excavation.aprx





### Legend

**Alignment**

- Cut & Cover
- Retained Cut
- Surface
- Tunnel
- Station Locations

**Mechanical Excavation Contours**

- 20dB
- 25dB
- 30dB
- 35dB
- 40dB
- 45dB

P02	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd
<div><div>JACOBS</div><div>IDOM</div></div>						
<div>Client</div> <div><div>TII</div><div>Bonneagar Iompair Éireann Transport Infrastructure Ireland</div></div>						
<div>Project</div> <div>METROLINK</div>						
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<div>Drawing Status</div> <div>FINAL</div>						
Scale @ A3		1:10,000	DO NOT SCALE			
Jacobs No.		32108600				
Client No.						
Drawing No.		ML1-JAI-EIA-ROUT_XX-DR-Y-14012				Rev P02
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

Path: \\unipac-jacobs.com\Dublin\Data\31\Sustainable Solutions\Metro North\11 - Mapping\Working\ESAR\_Drawing\CH 14 - Fig 14.3 Groundborne Noise from Mechanical Excavation.aprx





## Legend

### Alignment

- Cut & Cover
- Incline
- Retained Cut
- Surface
- Tunnel
- Station Locations

### Mechanical Excavation Contours

- 20dB
- 25dB
- 30dB
- 35dB
- 40dB
- 45dB

P02	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

JACOBS  
IDOM

Client  
  
Bonneagar Iompair Éireann  
Transport Infrastructure Ireland

Project

Drawing Title  
Figure 14.3 Groundborne Noise from Mechanical Excavation  
Sheet 3 of 7

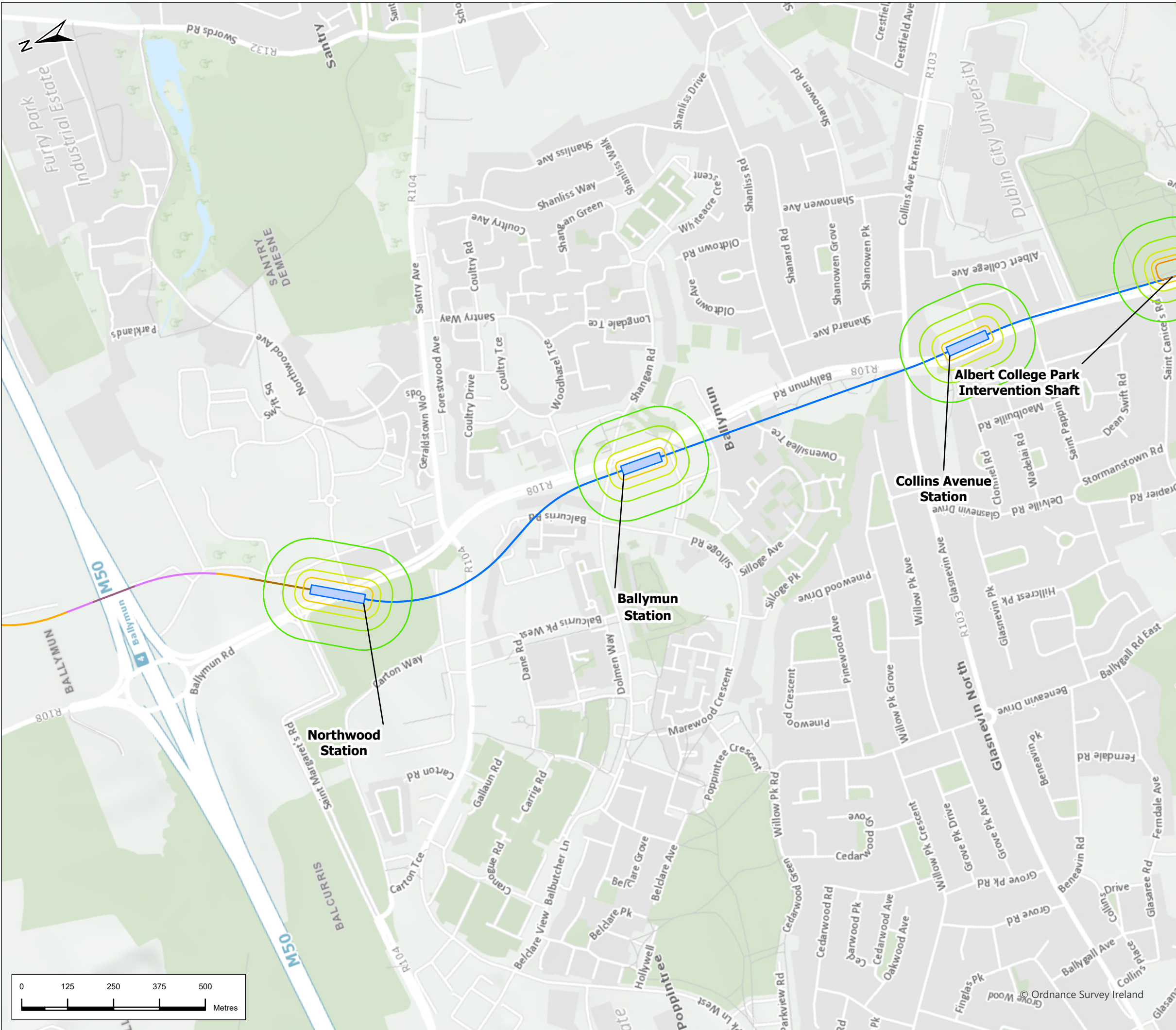
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Client No.		
Drawing No.	ML1-JAI-EIA-ROUT_XX-DR-Y-14013	Rev P02

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### Legend

**Alignment**

- Cut & Cover
- Incline
- Retained Cut
- Tunnel
- Viaduct

**Station Locations**

**Mechanical Excavation Contours**

- 20dB
- 25dB
- 30dB
- 35dB
- 40dB
- 45dB

P02	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd

**JACOBS IDOM**

Client

**TII**  
Bonneagar Iompair Éireann  
Transport Infrastructure Ireland

Project

**METROLINK**

Drawing Title

Figure 14.3 Groundborne Noise from Mechanical Excavation  
Sheet 4 of 7

Drawing Status

FINAL

Scale @ A3

1:10,000

DO NOT SCALE

Jacobs No.

32108600

Client No.

Drawing No.

ML1-JAI-EIA-ROUT\_XX-DR-Y-14014

Rev

P02

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Legend

Alignment

- Tunnel
- Station Locations

Mechanical Excavation Contours

- 20dB
- 25dB
- 30dB
- 35dB
- 40dB
- 45dB



P02	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
<div>JACOBS IDOM</div>						
Client <div><div>TII</div><div>Bonneagair Iompair Éireann Transport Infrastructure Ireland</div></div>						
Project <div>METROLINK</div>						
Drawing Title <div>Figure 14.3 Groundborne Noise from Mechanical Excavation Sheet 5 of 7</div>						
Drawing Status <div>FINAL</div>						
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Jacobs No.		32108600				
Client No.						
Drawing No. ML1-JAI-EIA-ROUT_XX-DR-Y-14015						Rev P02
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						





## Legend

### Alignment

- Tunnel
- Station Locations

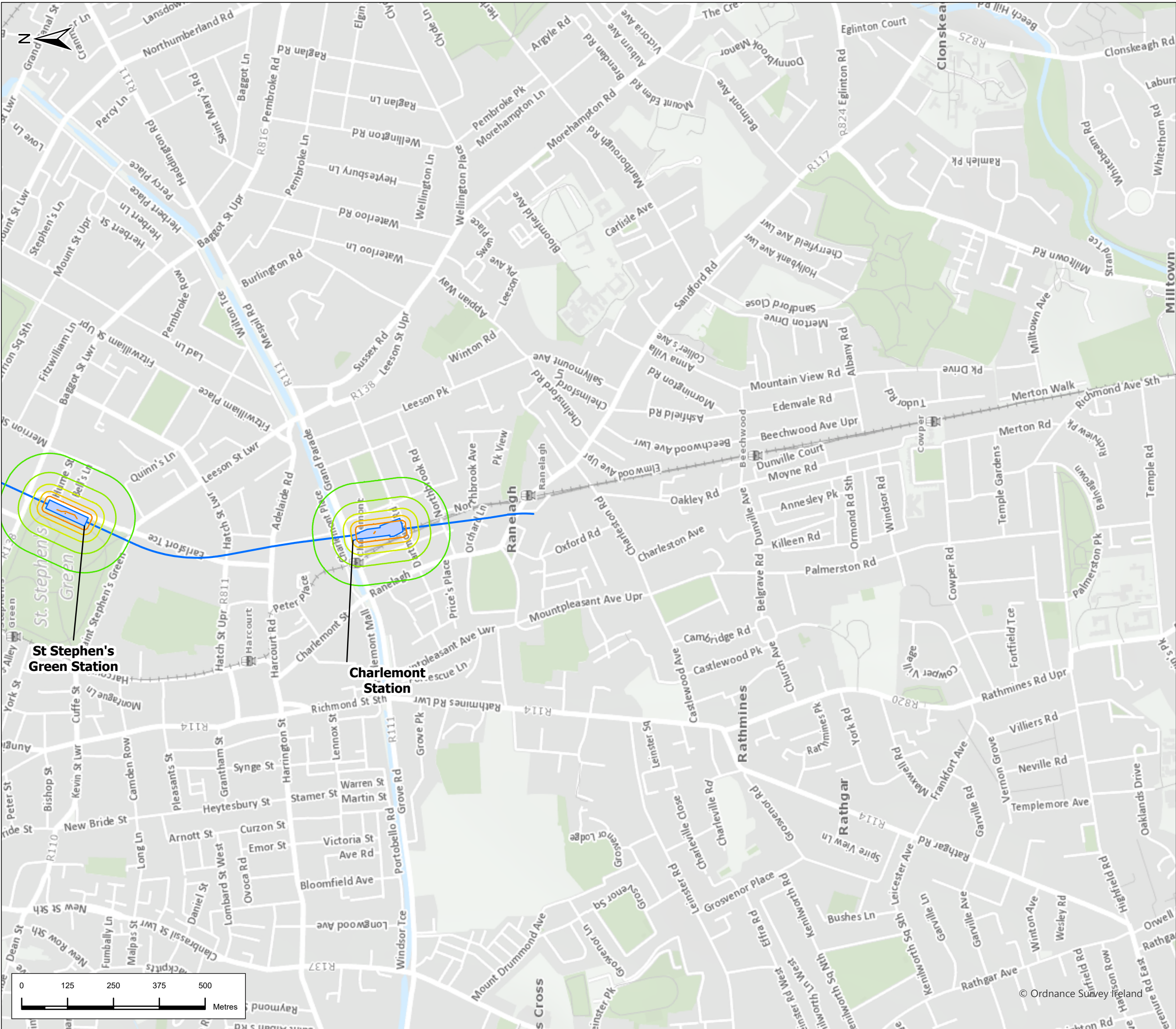
### Mechanical Excavation Contours

- 20dB
- 25dB
- 30dB
- 35dB
- 40dB
- 45dB



P02	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
<div>JACOBS</div> <div>IDOM</div>						
Client <div>TII</div> <div>Bonneagar Iompair Éireann</div> <div>Transport Infrastructure Ireland</div>						
Project <div>METROLINK</div>						
Drawing Title <div>Figure 14.3 Groundborne Noise from Mechanical Excavation Sheet 6 of 7</div>						
Drawing Status <div>FINAL</div>						
Scale @ A3		1:10,000			DO NOT SCALE	
Jacobs No.		32108600				
Client No.						
Drawing No.						Rev
ML1-JAI-EIA-ROUT_XX-DR-Y-14016						P02
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## Legend

### Alignment

- Tunnel
- Station Locations

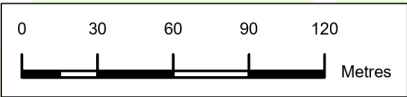
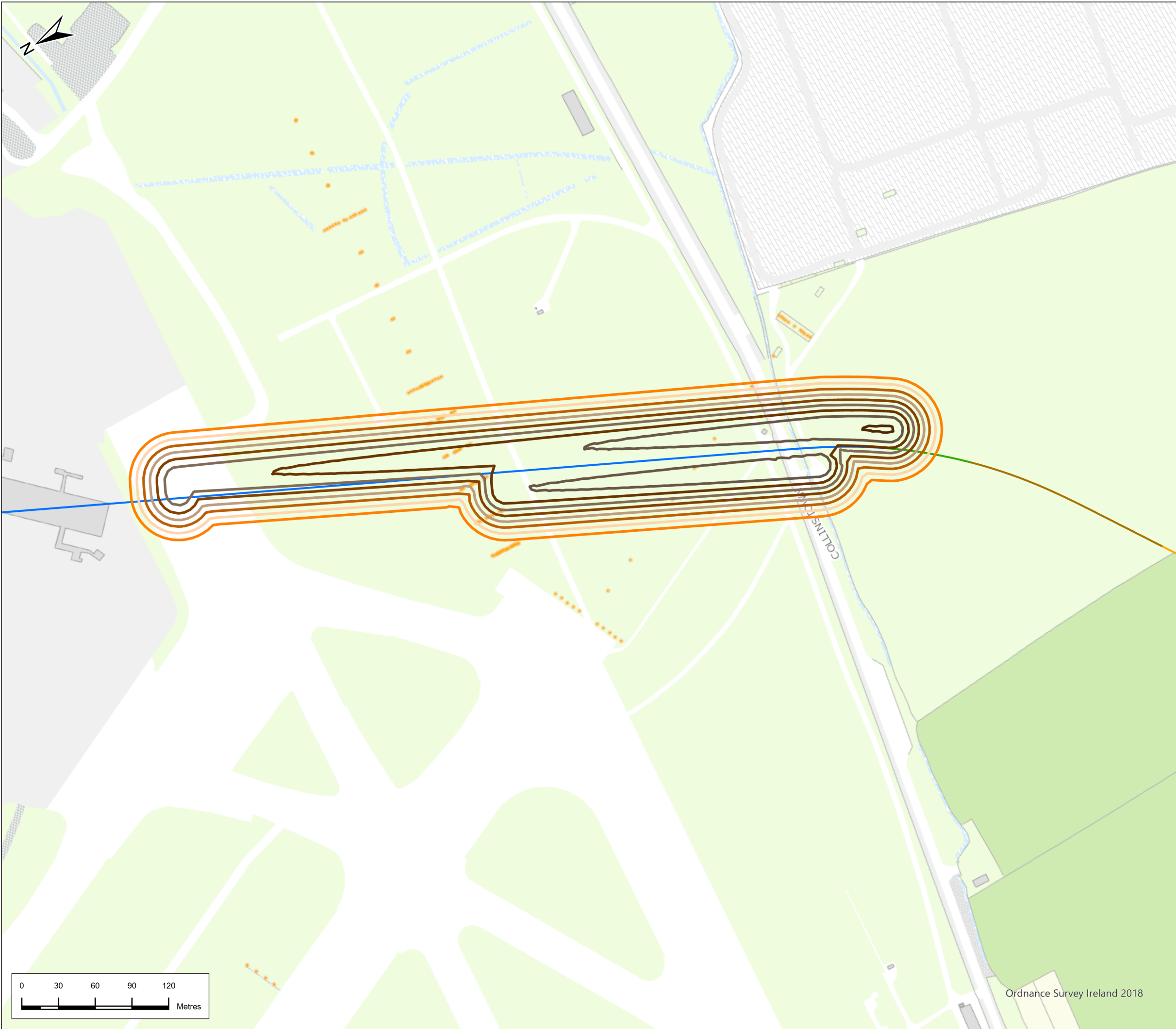
### Mechanical Excavation Contours

- 20dB
- 25dB
- 30dB
- 35dB
- 40dB
- 45dB



P02	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
<div>JACOBS IDOM</div>						
<div>Client</div> <div><div>TII</div><div>Bonneagair Iompair Éireann Transport Infrastructure Ireland</div></div>						
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Jacobs No.			32108600			
Client No.						
Drawing No.						Rev
ML1-JAI-EIA-ROUT_XX-DR-Y-14017						P02
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						





Legend

- Alignment
- Cut & Cover
  - Retained Cut
  - Surface
  - Tunnel

Groundborne Noise for Mechanical Excavation at Intervention Tunnels

- 30dB
- 31dB
- 32dB
- 33dB
- 34dB
- 35dB
- 36dB
- 37dB
- 38dB



P01	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

JACOBS  
IDOM

Client

**TII**  
Bonneagar Iompair Éireann  
Transport Infrastructure Ireland

Project

**METROLINK**

Drawing Title

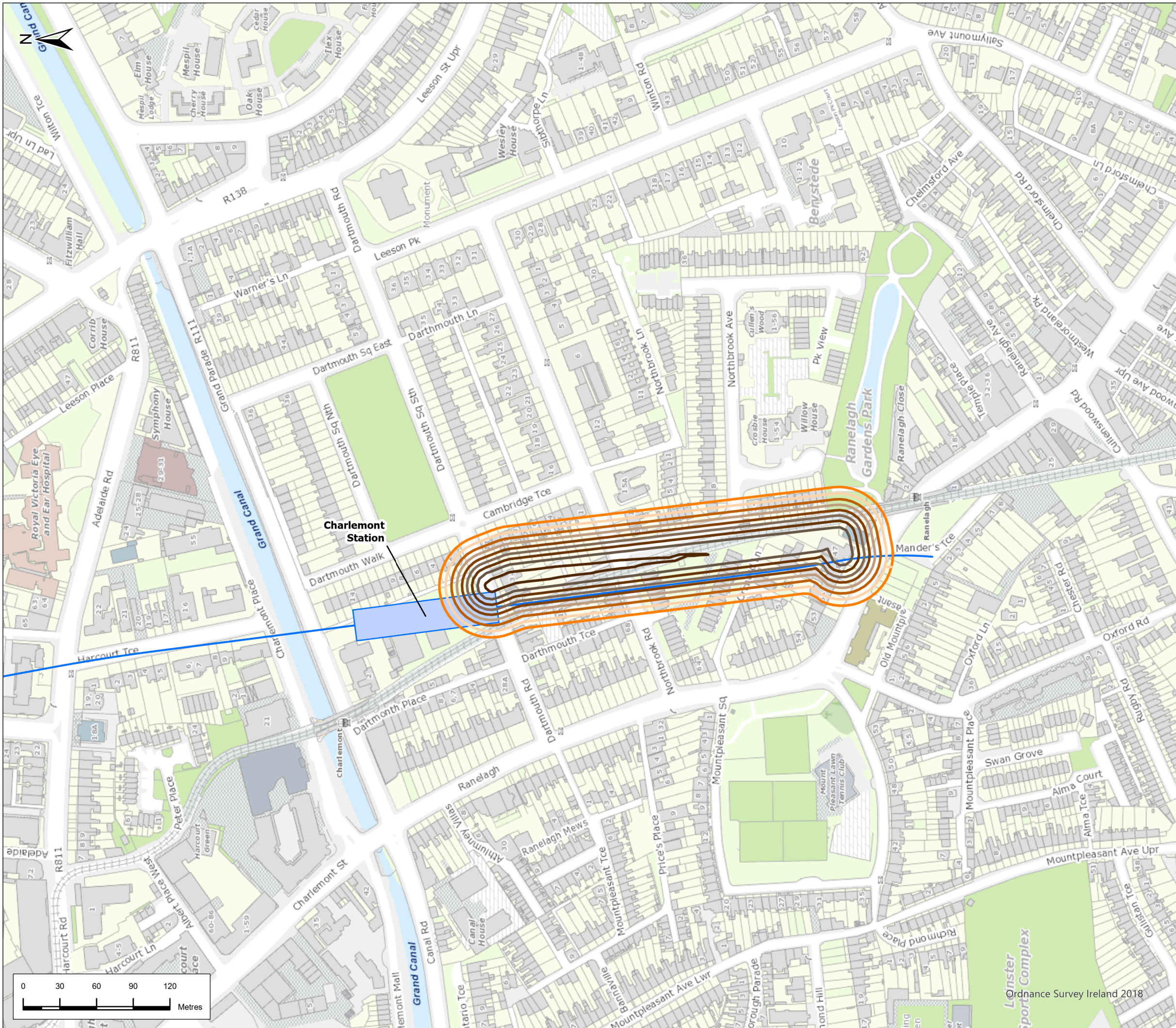
Figure 14.7 Groundborne Noise from the Mechanical Excavation of Intervention Tunnels  
Sheet 1 of 2

Drawing Status	FINAL	
Scale @ A3	1:3,000	DO NOT SCALE
Jacobs No.	32108600	
Client No.		

Drawing No.	ML1-JAI-EIA-ROUT_XX-DR-Y-14046	Rev P01
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### Legend

Alignment

- Tunnel
- Station Location

Groundborne Noise for Mechanical Excavation at Intervention Tunnels

- 30dB
- 31dB
- 32dB
- 33dB
- 34dB
- 35dB
- 36dB
- 37dB
- 38dB

P01	14/2/24	Final Issue	FND	RH	RH	NC
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd

Client

Project

Drawing Title

Figure 14.7 Groundborne Noise from the Mechanical Excavation of Intervention Tunnels  
Sheet 2 of 2

Drawing Status	FINAL	
Scale @ A3	1:3,000	DO NOT SCALE
Jacobs No.	32108600	
Client No.		
Drawing No.	ML1-JAI-EIA-ROUT_XX-DR-Y-14047	Rev P01

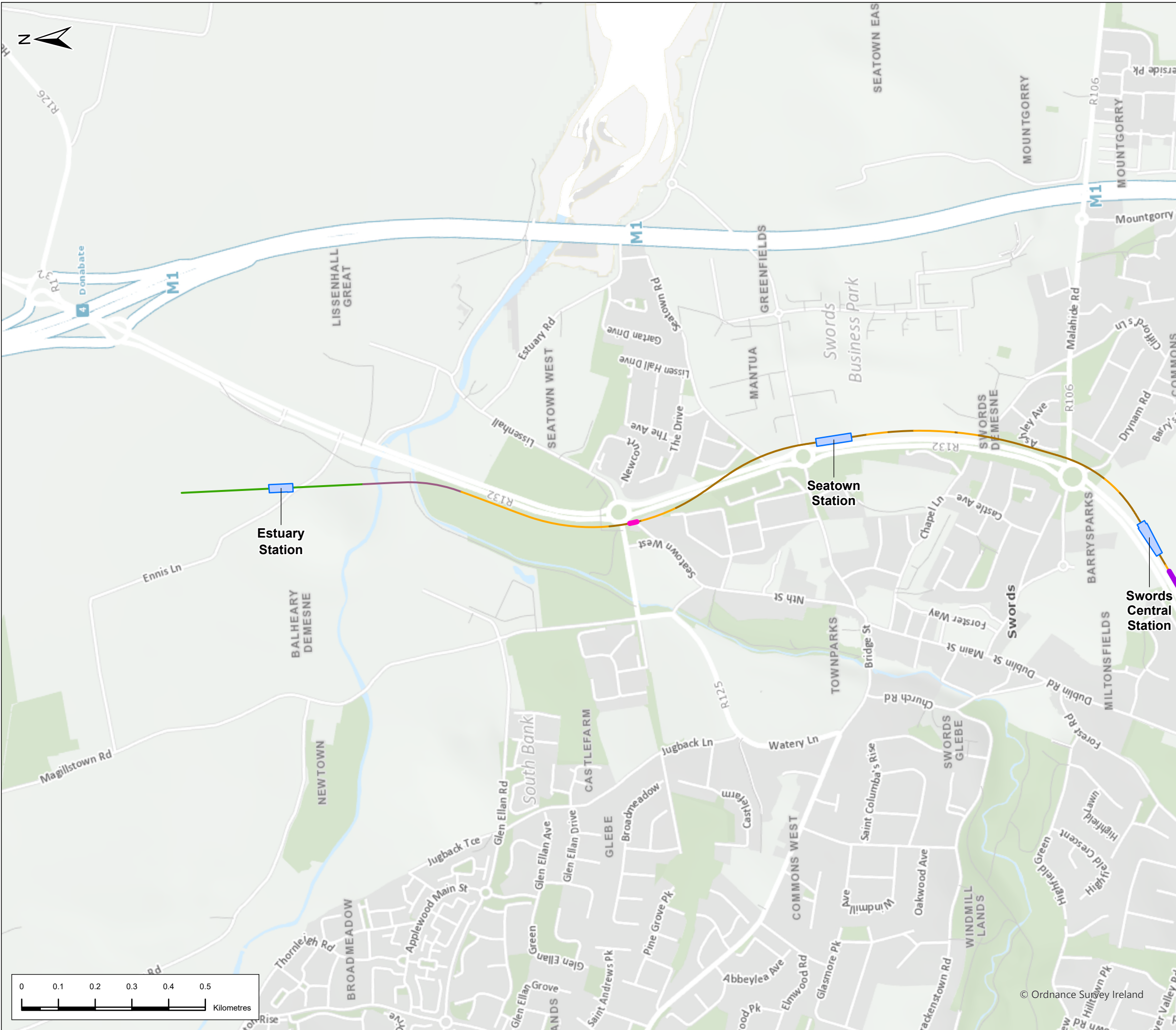
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© Ordnance Survey Ireland 2022/ OSI NMA 273. All elevations are in metres and relate to OSI Geoid Model (OSGM02) Malin Head as defined by existing Project Control. All Co-ordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSI active GPS station Tallaght College (TLLG).

Path: \\unipac-jacobs.com\pub\dm\pub\3\Sustainable Solutions\Metro North\11 - Mapping\Working\ESAR\_Drawings\CH 14 - Fig 14.7 Groundborne Noise from the Mechanical





Legend

Alignment

Cut & Cover

Retained Cut

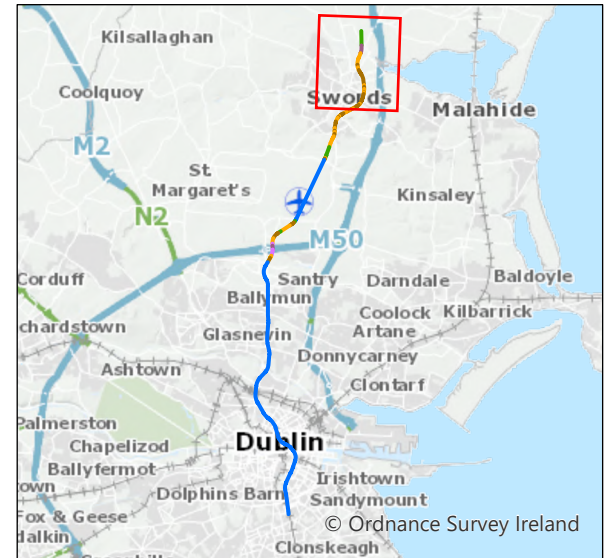
Surface

Viaduct

Station Locations

EIAR proposed Floating Slab Track (FST)

Additional FST lengths as a result of New 'Medium' impacts



P01	15/2/24	DRAFT		JL	PB	ME	RH
Rev.	Date	Purpose of revision		Drawn	Check'd	Rev'd	Appr'd
<div>JACOBS</div> <div>IDOM</div>							
Client <div><div>TII</div><div>Bonneagar Iompair Éireann Transport Infrastructure Ireland</div></div>							
Project <div>METROLINK</div>							
Drawing Title <div>Figure 14.8 EIAR proposed locations for Floating Slab Track</div>							
Drawing Status <div>DRAFT</div>							
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Jacobs No.		32108600					
Client No.							
Drawing No. ML1-JAI-EIA-ROUT_XX-DR-Y40021							Rev P01
This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							





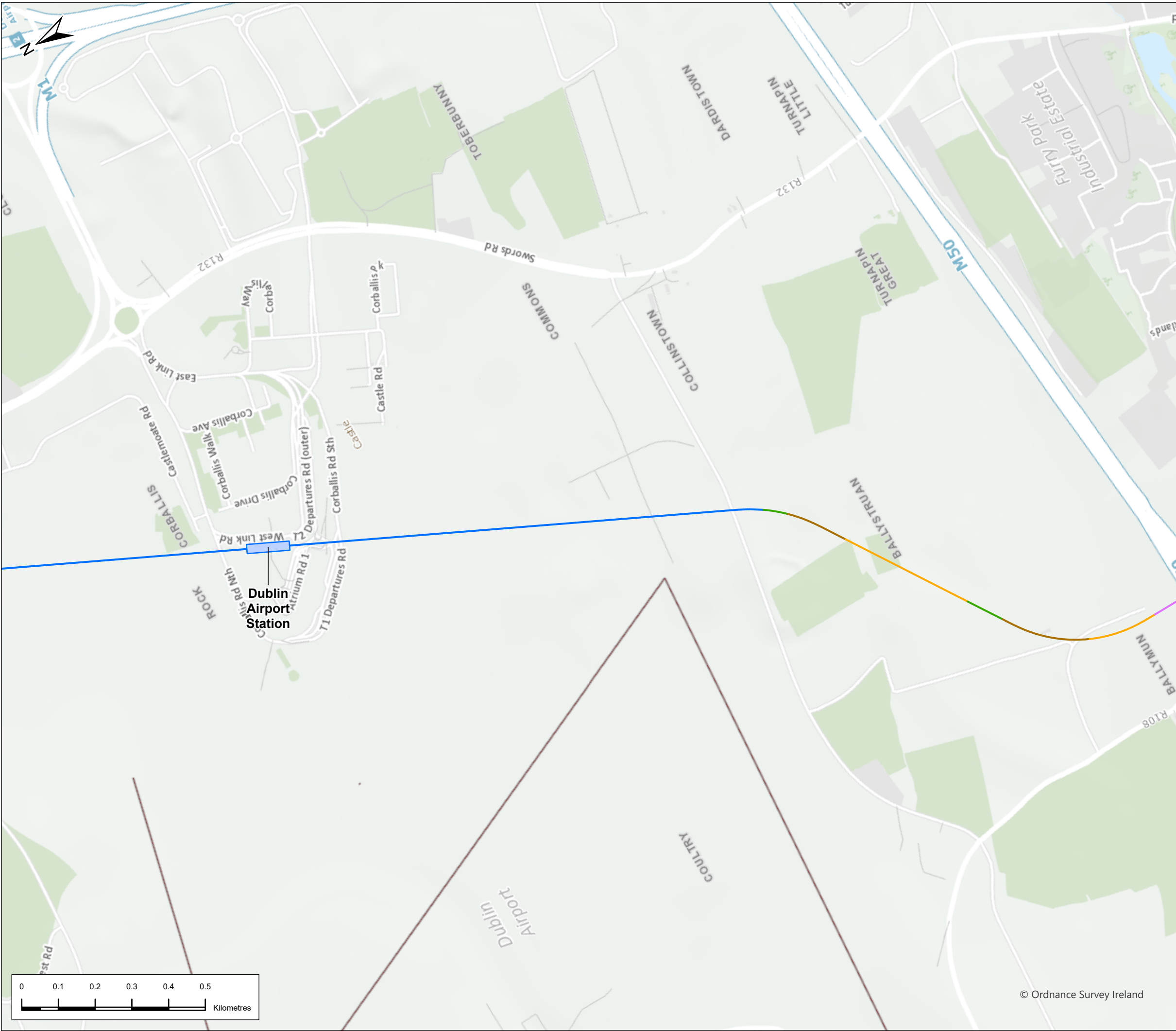
### Legend

Alignment

- Cut & Cover
- Retained Cut
- Surface
- Tunnel
- Station Locations
- Additional FST lengths as a result of New 'Medium' impacts

P01	15/2/24	DRAFT	JL	PB	ME	RH
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd
Client						
Project						
Drawing Title		Figure 14.8 EIAR proposed locations for Floating Slab Track				
Drawing Status		DRAFT				
Scale @ A3	1:10,000		DO NOT SCALE			
Jacobs No.	32108600					
Client No.						
Drawing No.	ML1-JAI-EIA-ROUT_XX-DR-Y40022					Rev P01
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						





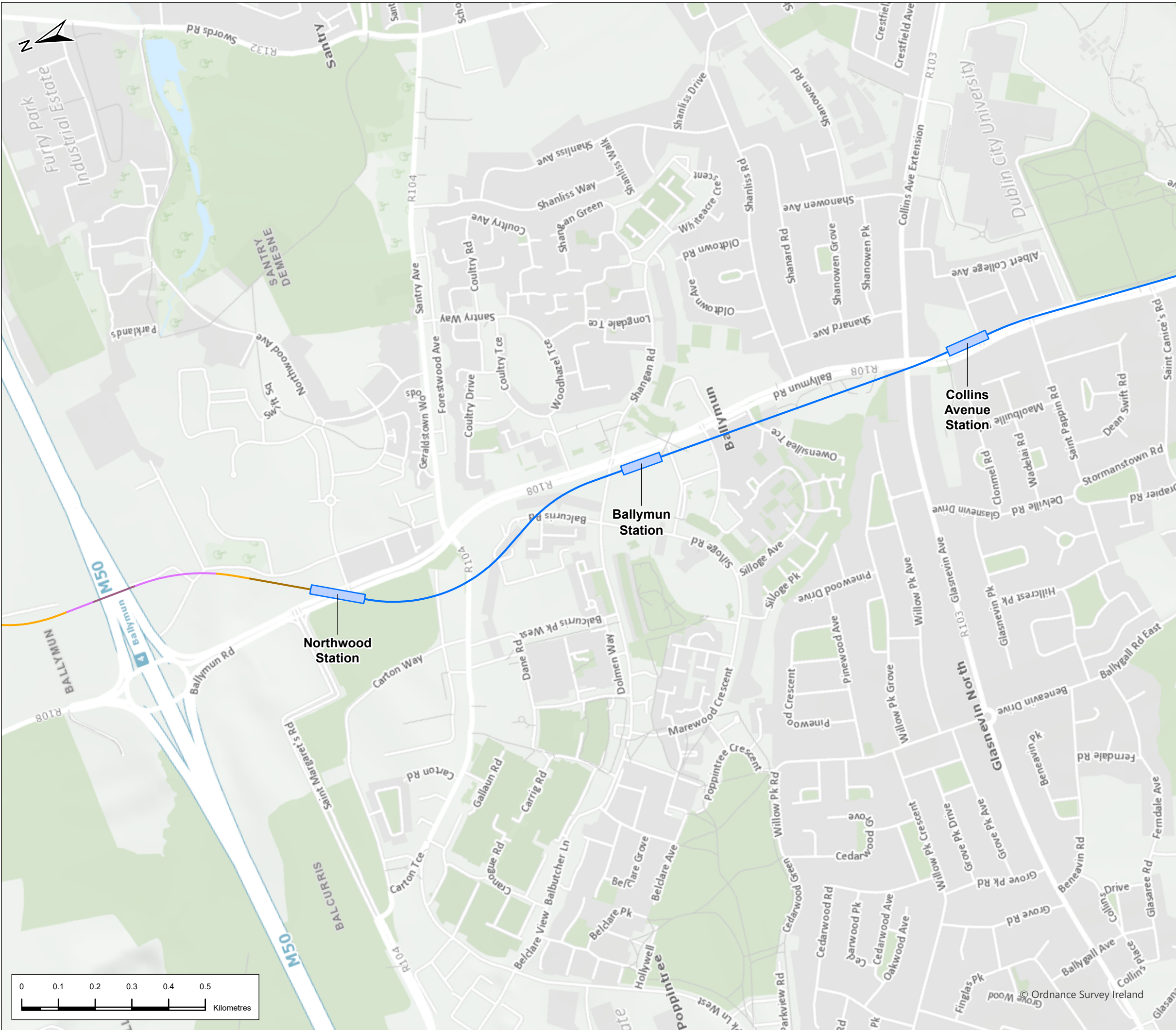
## Legend

- Alignment
- Cut & Cover
  - Incline
  - Retained Cut
  - Surface
  - Tunnel
  - Station Locations



P01	15/2/24	DRAFT		JL	PB	ME	RH
Rev.	Date	Purpose of revision		Drawn	Check'd	Rev'd	App'd
<div>JACOBS</div> <div>IDOM</div>							
Client <div><div>TII</div><div>Bonneagair Iompair Éireann Transport Infrastructure Ireland</div></div>							
Project <div>METROLINK</div>							
Drawing Title <div>Figure 14.8 EIAR proposed locations for Floating Slab Track</div>							
Drawing Status <div>DRAFT</div>							
Scale @ A3		1:10,000			DO NOT SCALE		
Jacobs No.		32108600					
Client No.							
Drawing No. <div>ML1-JAI-EIA-ROUT_XX-DR-Y40023</div>							Rev <div>P01</div>
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							





- Legend
- Alignment
- Cut & Cover

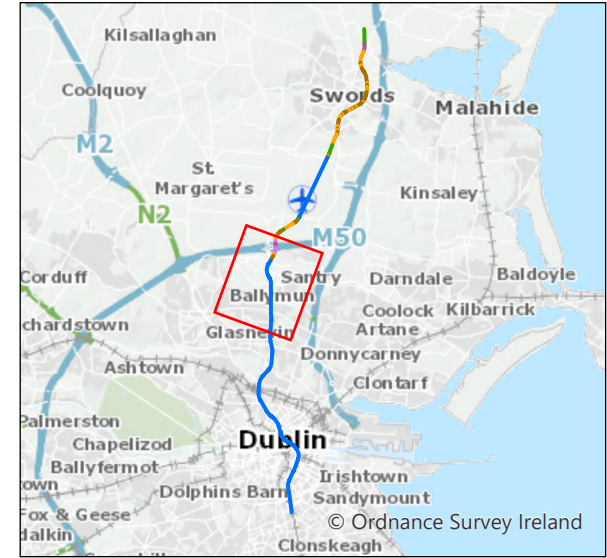
Incline

Retained Cut

Tunnel

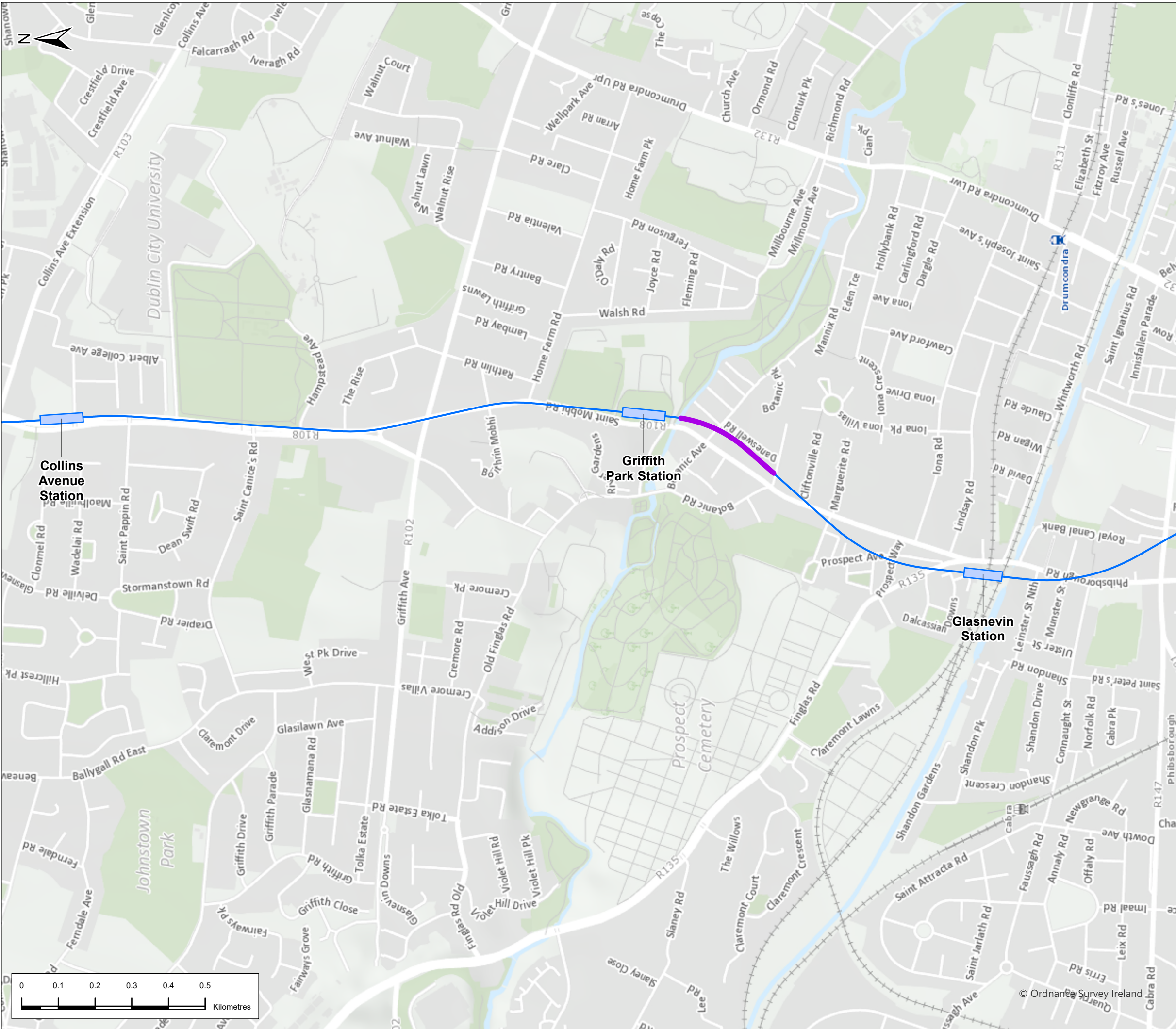
Viaduct

Station Locations



P01	15/2/24	DRAFT	JL	PB	ME	RH
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
<div>JACOBS</div> <div>IDOM</div>						
<div>Client</div> <div><div>TII</div><div>Bonneagar Ionpair Éireann</div><div>Transport Infrastructure Ireland</div></div>						
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Scale @ A3		1:10,000	DO NOT SCALE			
Jacobs No.		32108600				
Client No.						
Drawing No.						Rev
ML1-JAI-EIA-ROUT_XX-DR-Y40024						P01
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						





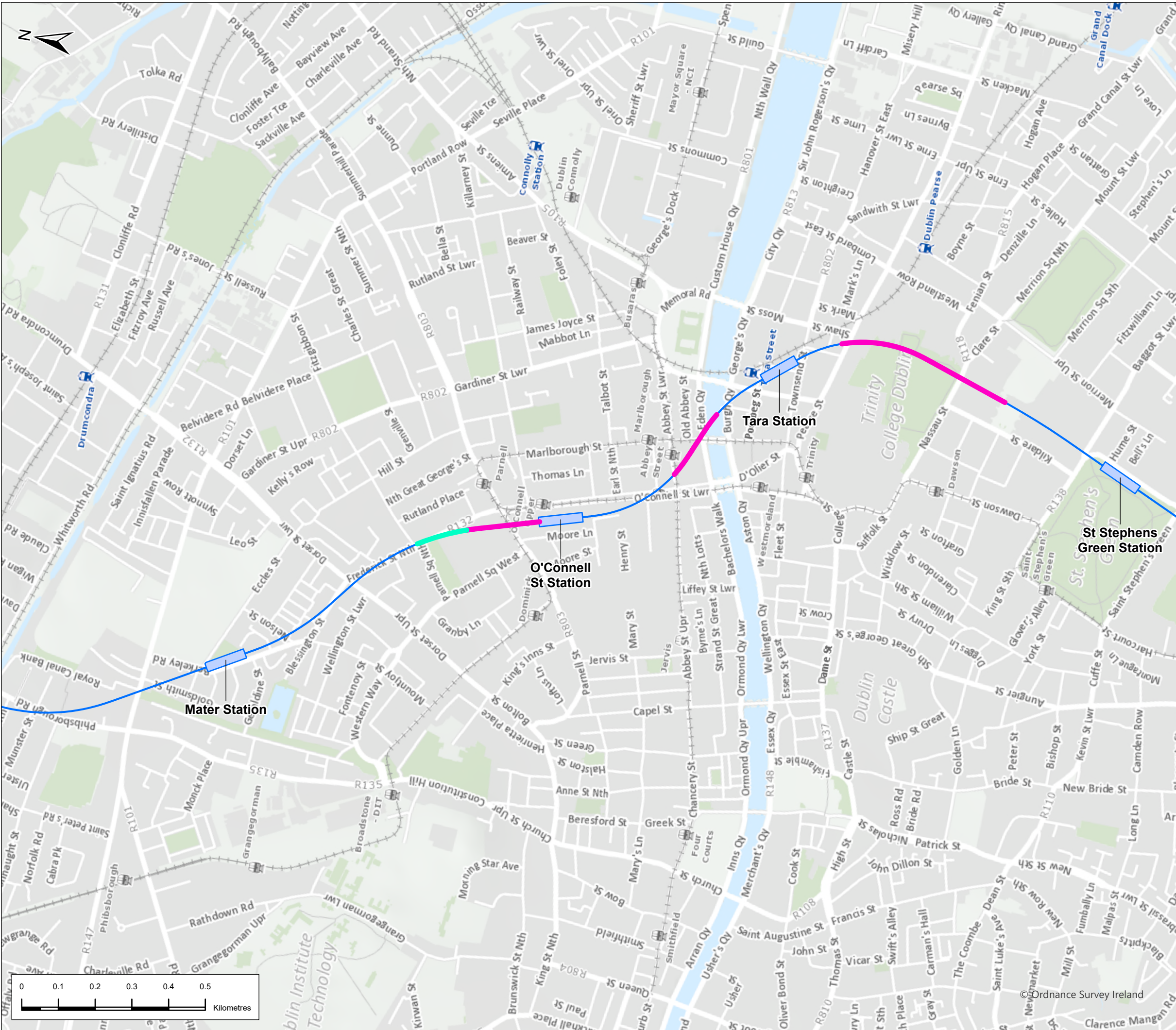
## Legend

Alignment

- Tunnel
- Station Locations
- Additional FST lengths as a result of New 'Medium' impacts

P01	15/2/24	DRAFT	JL	PB	ME	RH
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
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Jacobs No.		32108600				
Client No.						
Drawing No.		ML1-JAI-EIA-ROUT_XX-DR-Y40025				Rev P01
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						





## Legend

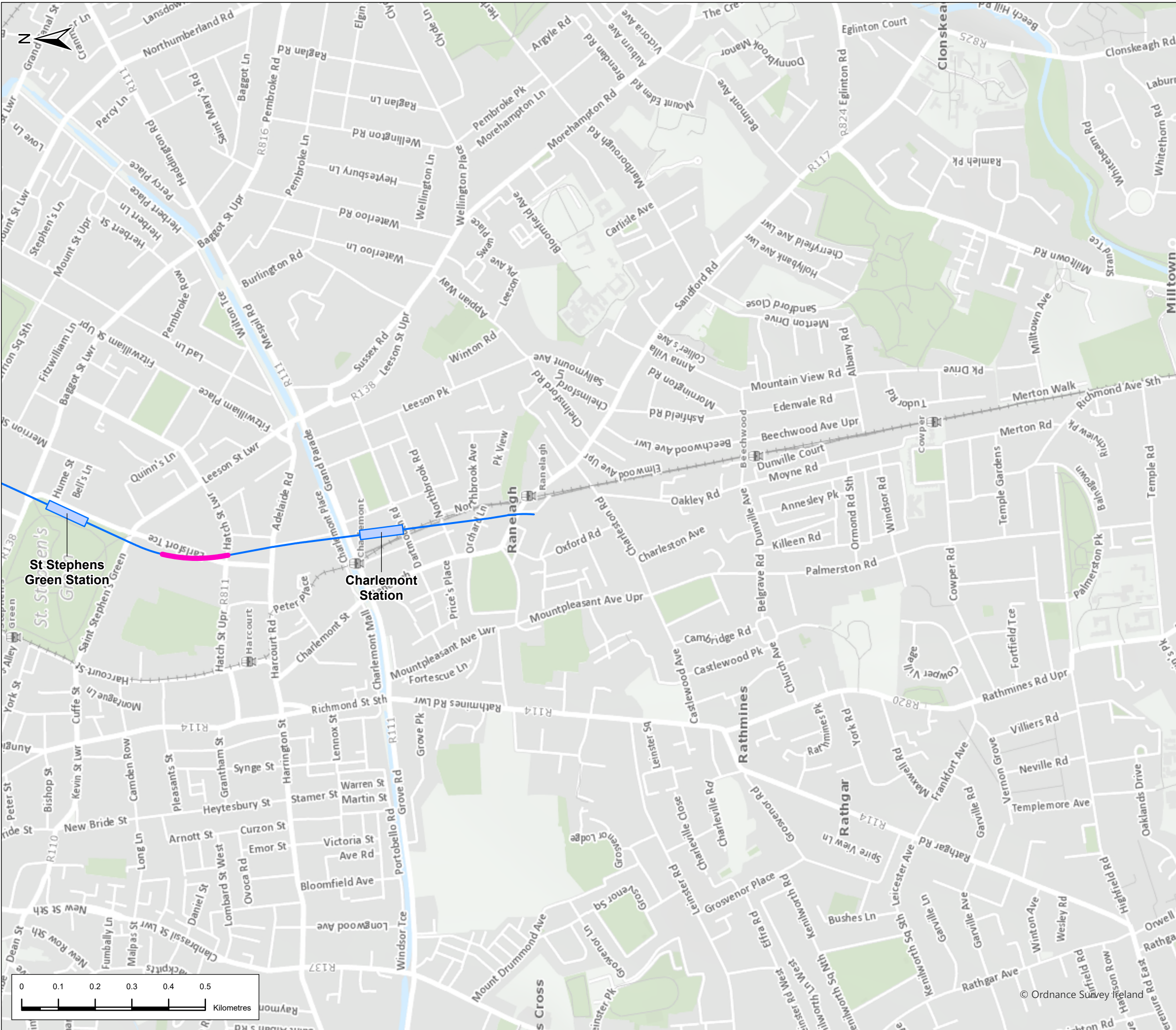
### Alignment

- Tunnel
- Station Locations
- EIAR proposed Floating Slab Track (FST)
- Additional FST lengths as a result of:  
Rotunda Hospital development footprint



P01	15/2/24	DRAFT		JL	PB	ME	RH
Rev.	Date	Purpose of revision		Drawn	Check'd	Rev'd	App'r'd
<div>JACOBS</div> <div>IDOM</div>							
Client <div><div>TII</div><div>Bonneagar Iompair Éireann Transport Infrastructure Ireland</div></div>							
Project <div>METROLINK</div>							
Drawing Title <div>Figure 14.8 EIAR proposed locations for Floating Slab Track</div>							
Drawing Status <div>DRAFT</div>							
Scale @ A3		1:10,000			DO NOT SCALE		
Jacobs No.		32108600					
Client No.							
Drawing No. ML1-JAI-EIA-ROUT_XX-DR-Y40026							Rev P01
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.							





Legend

Alignment

Tunnel

Station Locations

EIAR proposed Floating Slab Track (FST)



P01	15/2/24	DRAFT	JL	PB	ME	RH
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd
<div>JACOBS</div> <div>IDOM</div>						
Client <div><div>TII</div><div>Bonneagair Iompair Éireann Transport Infrastructure Ireland</div></div>						
Project <div><div>METRO</div><div>LINK</div></div>						
Drawing Title <div>Figure 14.8 EIAR proposed locations for Floating Slab Track</div>						
Drawing Status <div>DRAFT</div>						
Scale @ A3		1:10,000			DO NOT SCALE	
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Client No.						
Drawing No. ML1-JAI-EIA-ROUT_XX-DR-Y40027						Rev P01
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						