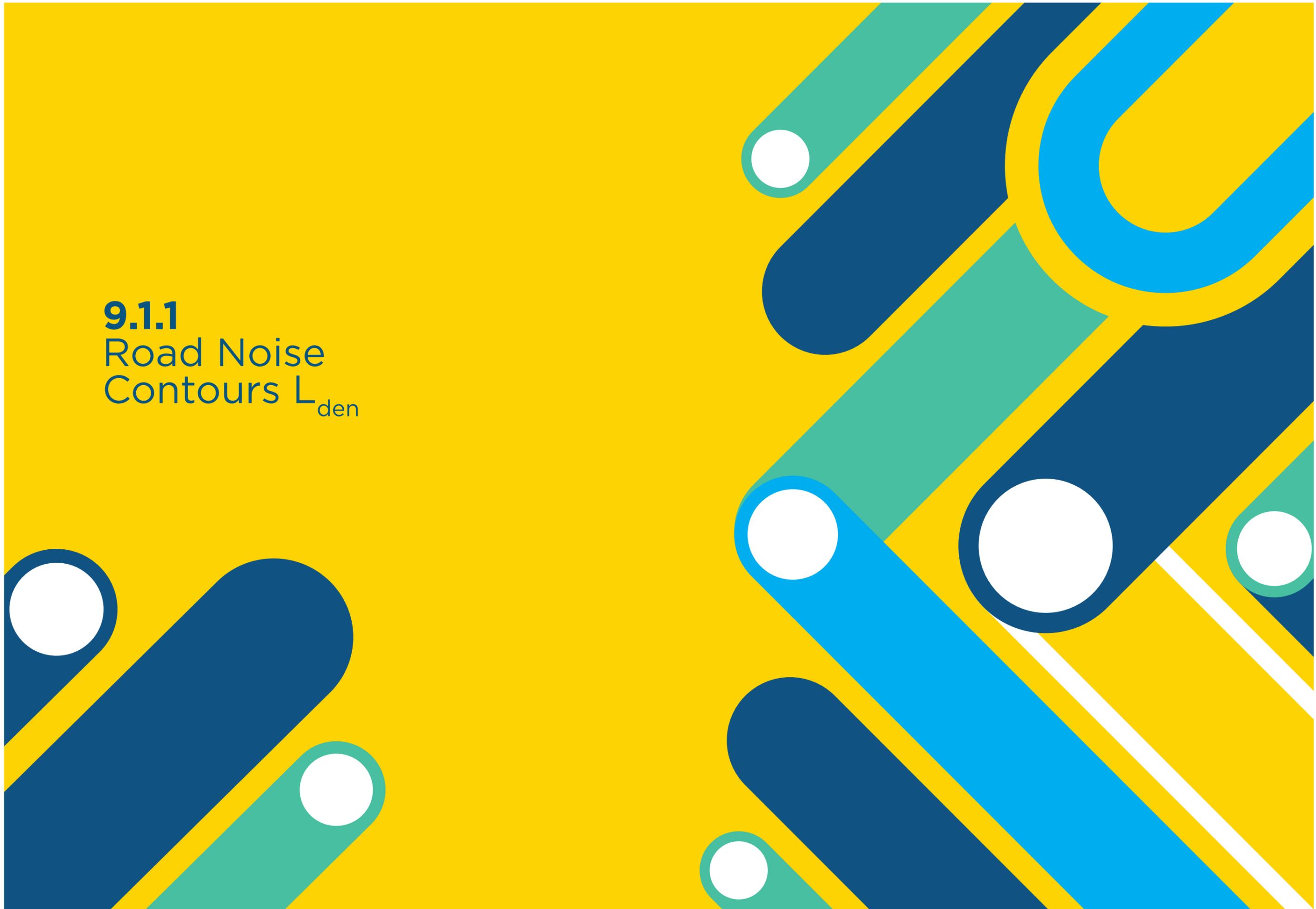
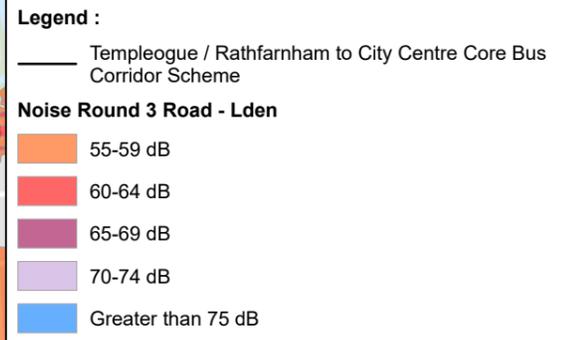
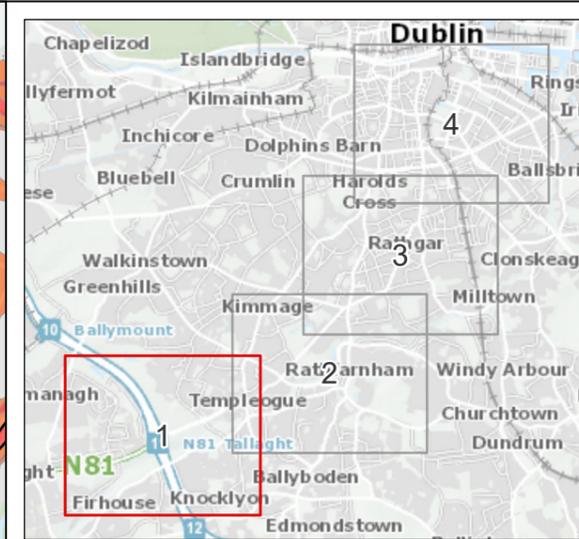
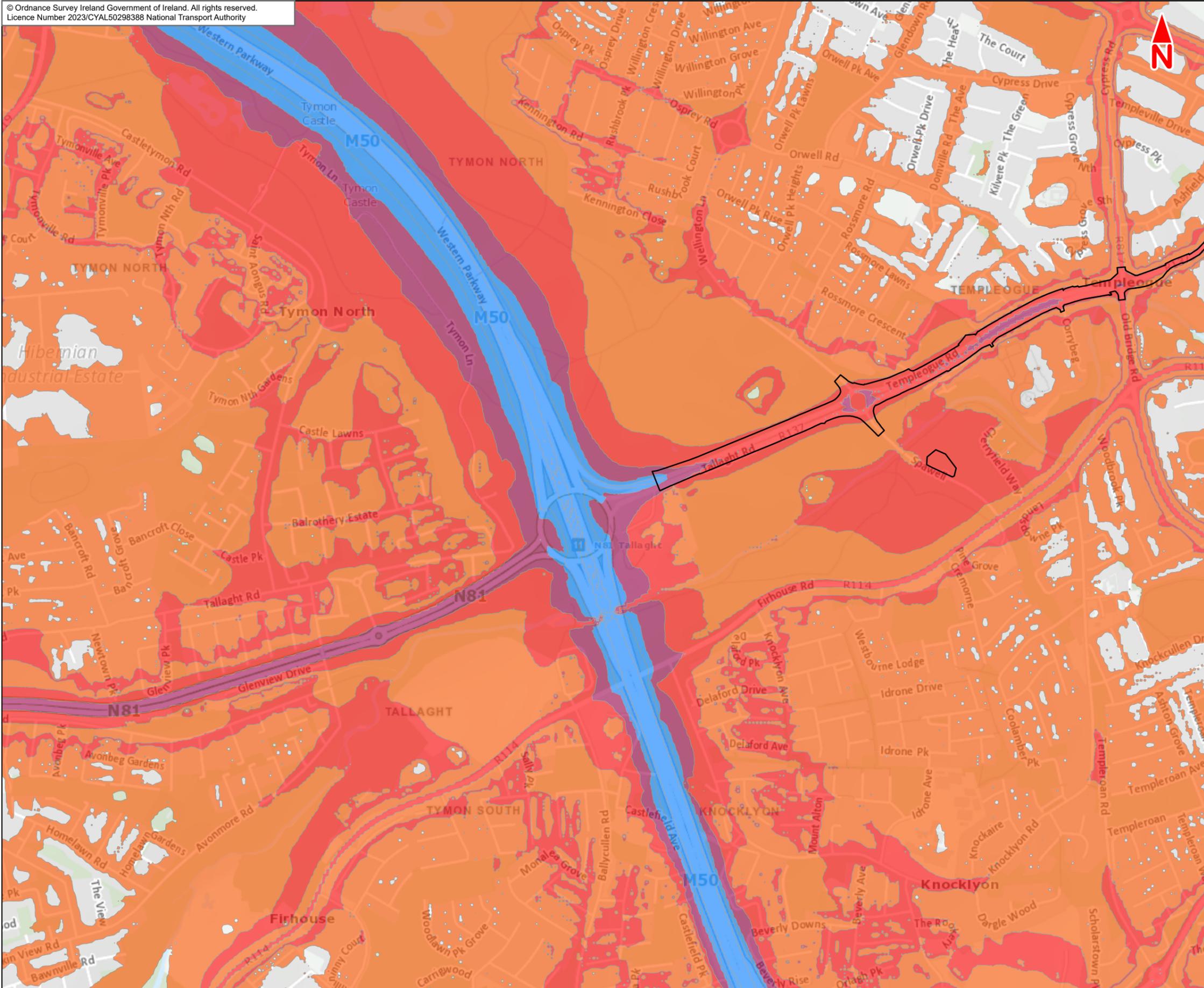


Chapter 09
Noise & Vibration



9.1.1
Road Noise
Contours L_{den}





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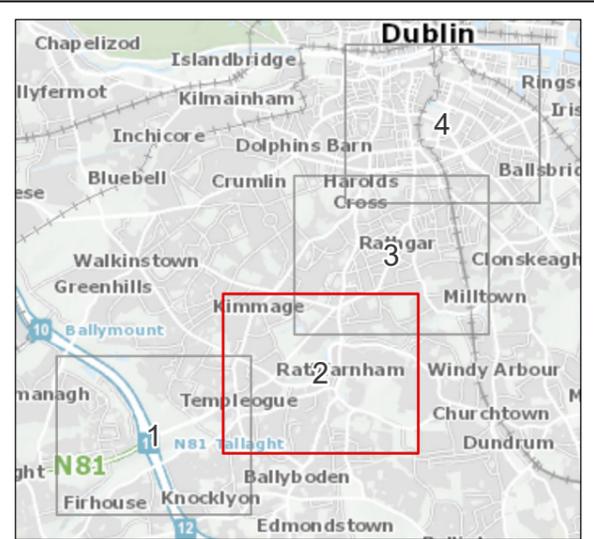
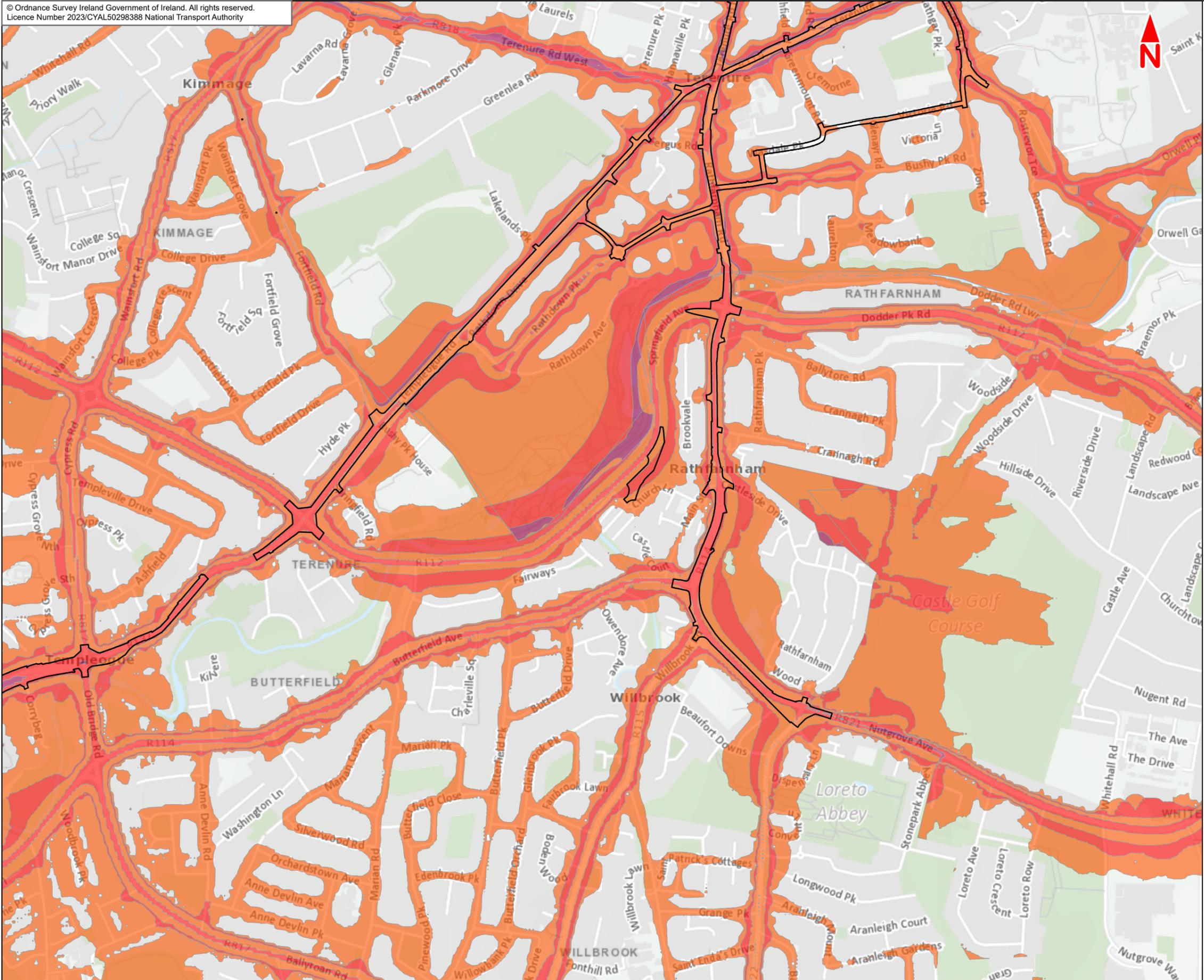
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Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.1.1 Road Noise Contours Lden				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0101	Sheet Number 1 of 4	Status A	Rev M01	

Date 23/02/2023	Scale @ A3 1:10 000	Drawn HCH	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



Legend :

- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme

Noise Round 3 Road - Lden

- 55-59 dB
- 60-64 dB
- 65-69 dB
- 70-74 dB
- Greater than 75 dB

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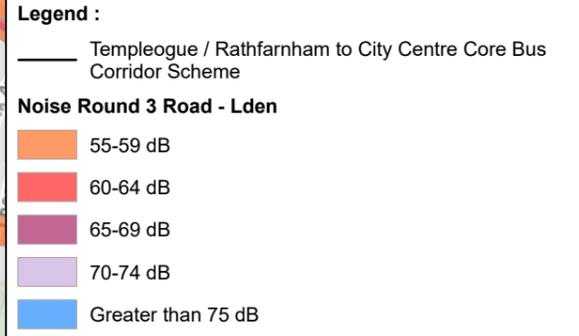
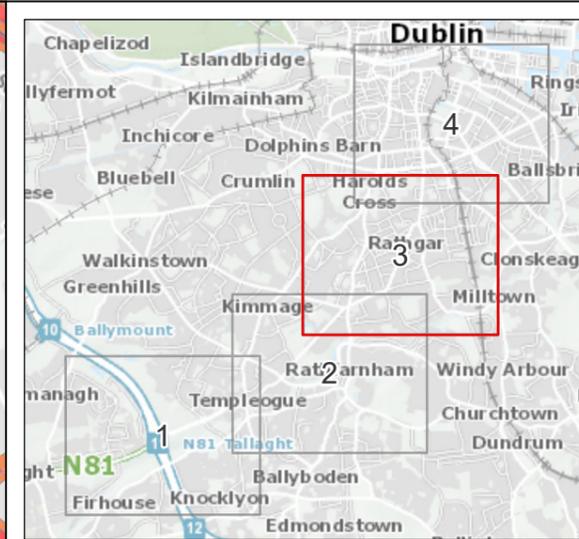
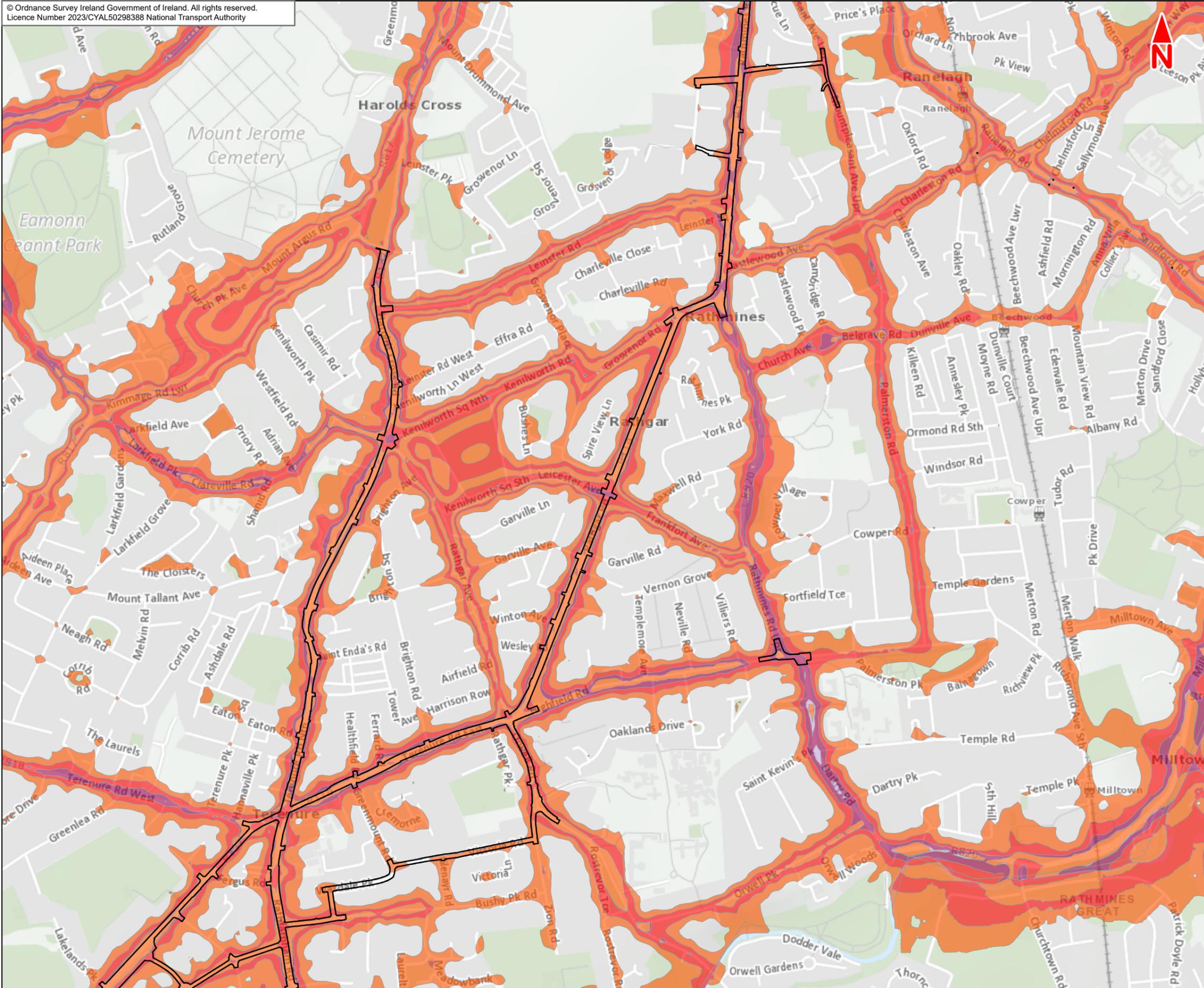
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Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.1.1 Road Noise Contours Lden				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0102	Sheet Number 2 of 4	Status A	Rev M01	

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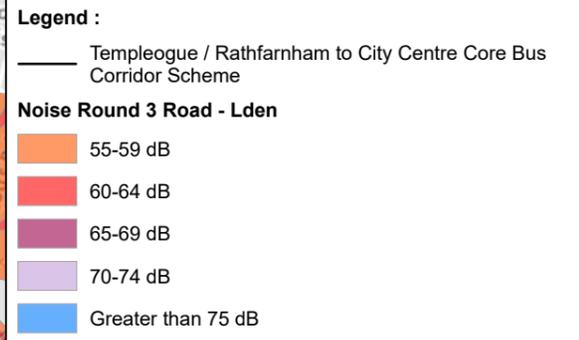
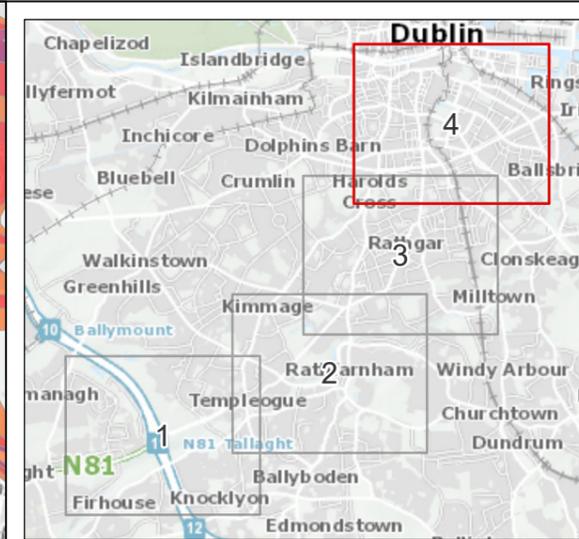
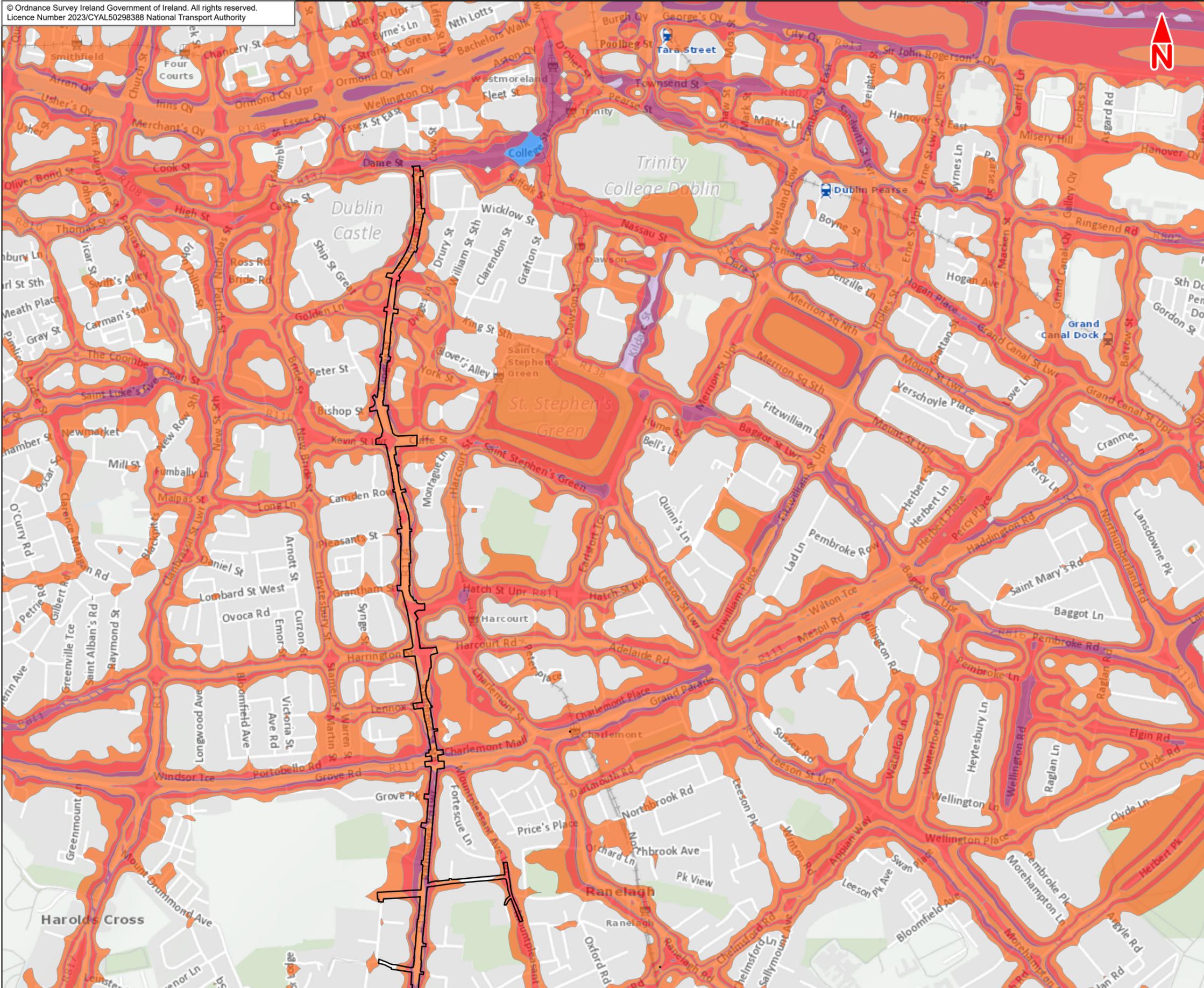


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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.1.1 Road Noise Contours Lden				
Date 23/02/2023	Scale @ A3 1:10 000	Drawn HCH	Checked SW	Approved DK
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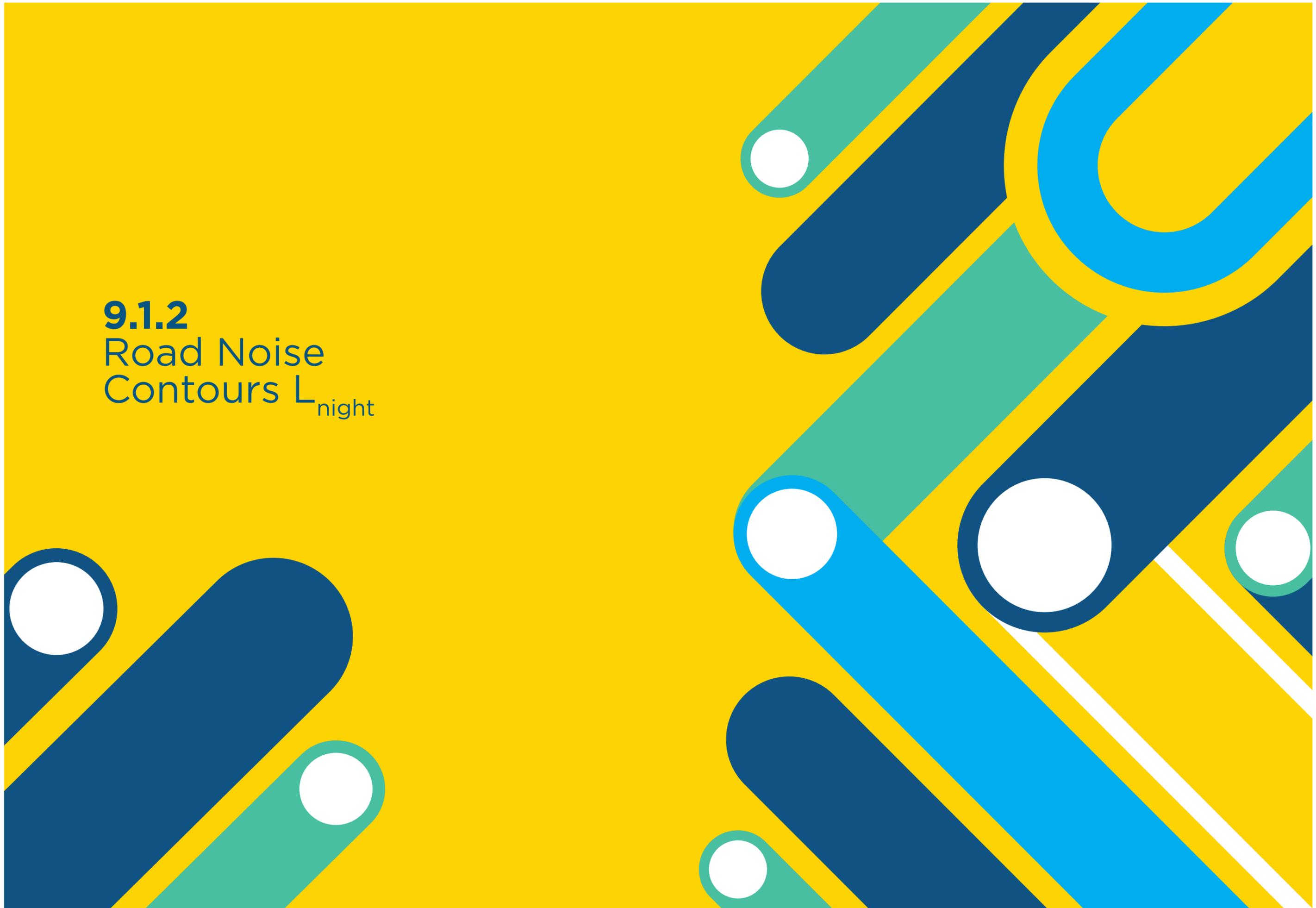
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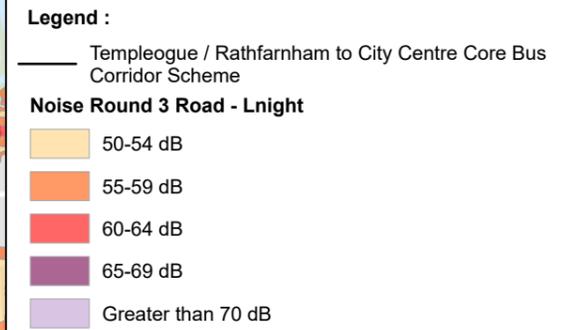
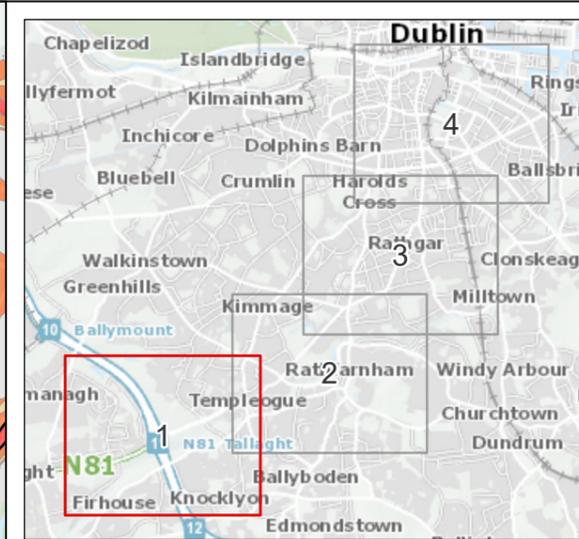
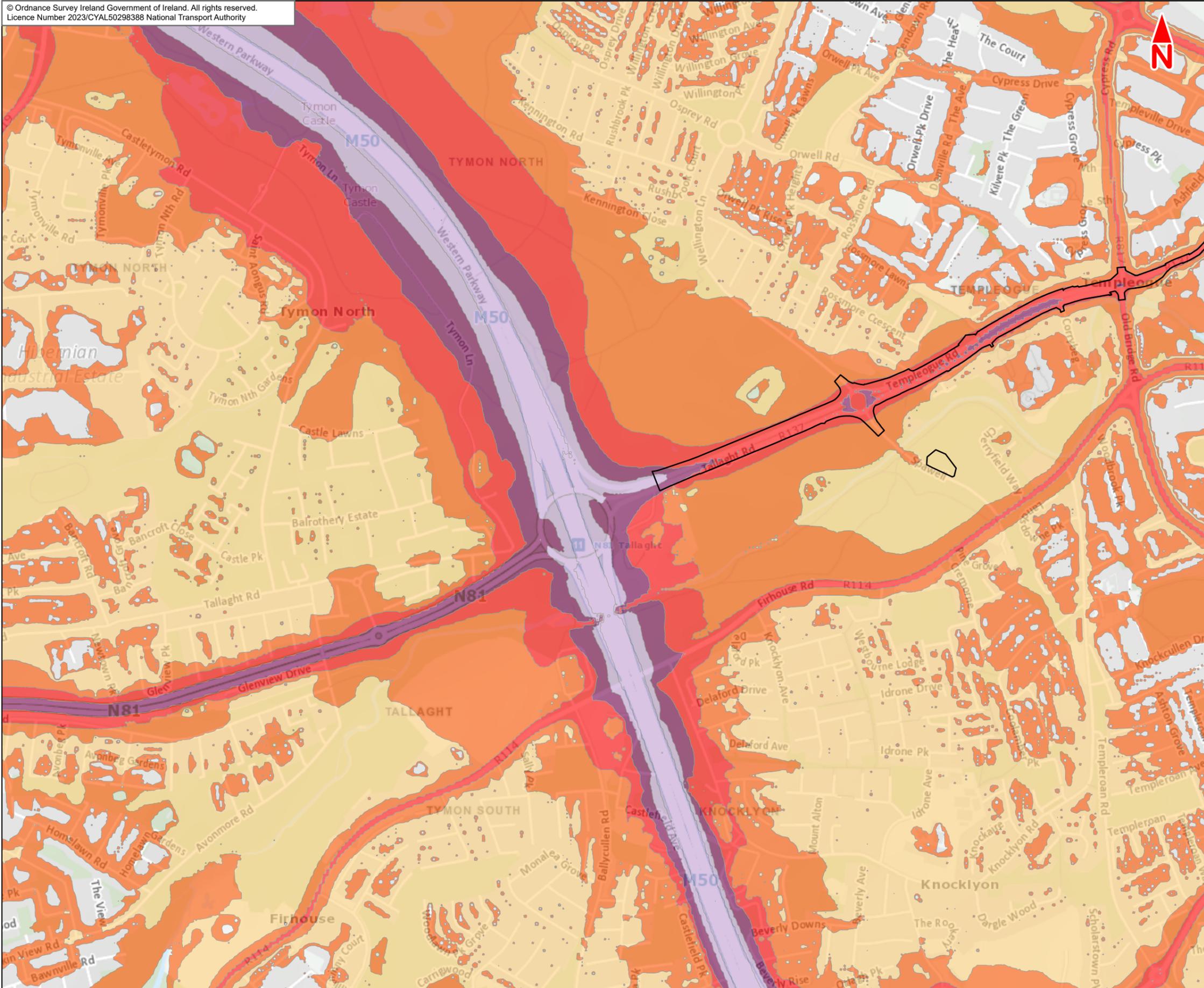
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Originator Code: JAC

Drawn: HCH
Checked: SW
Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.1.1 Road Noise Contours Lden			
Drawing File Name: BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0104	Sheet Number: 4 of 4	Status: A	Rev: M01

9.1.2
Road Noise
Contours L_{night}





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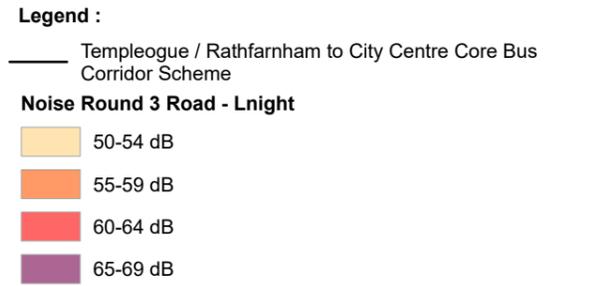
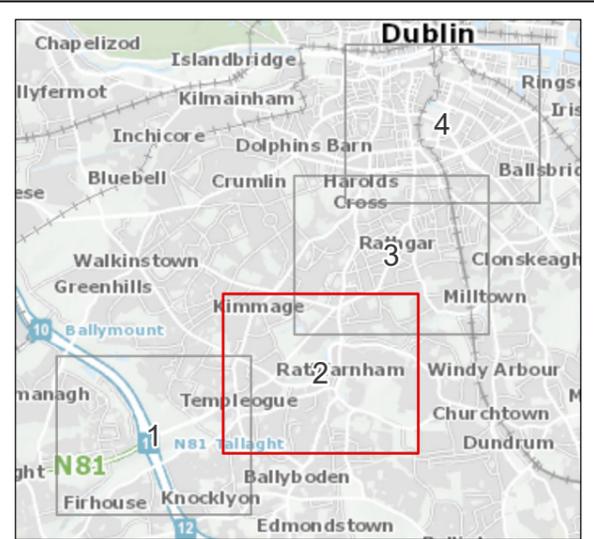
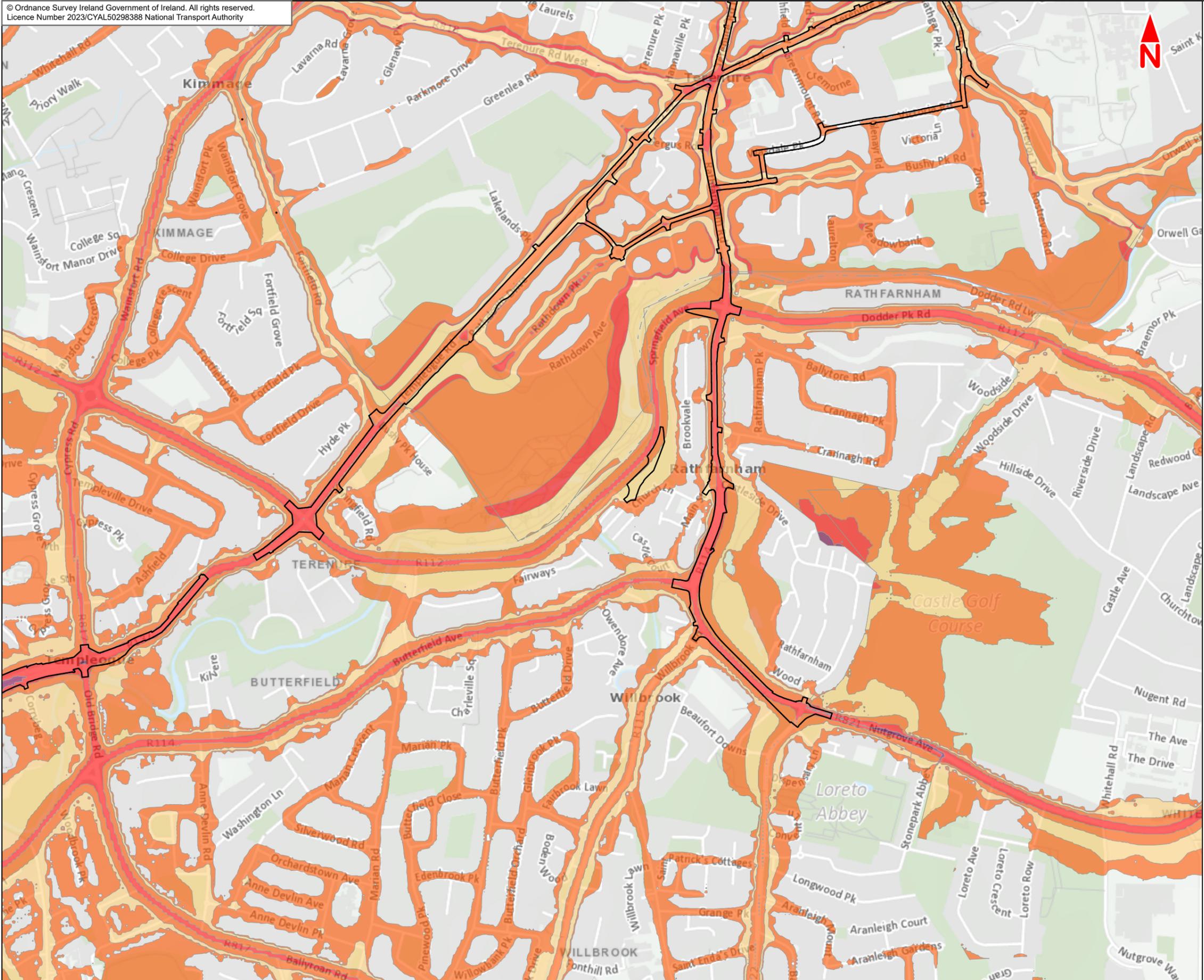
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Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.1.2 Road Noise Contours Night				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0201	Sheet Number 1 of 4	Status A	Rev M01	

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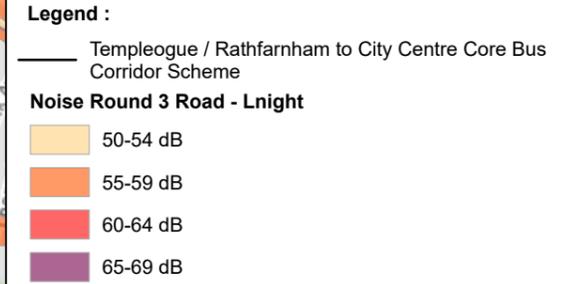
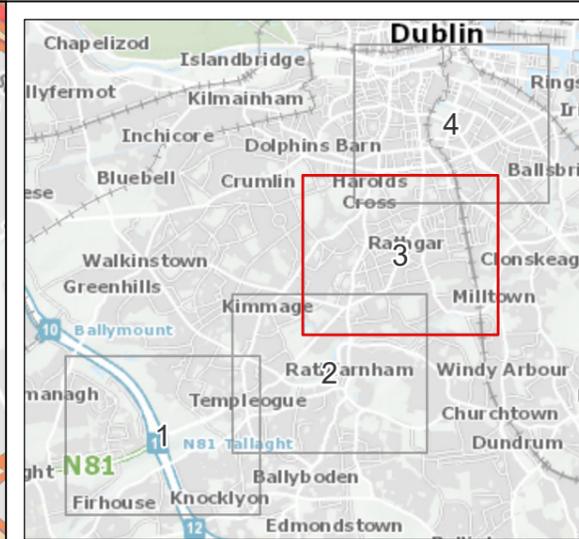
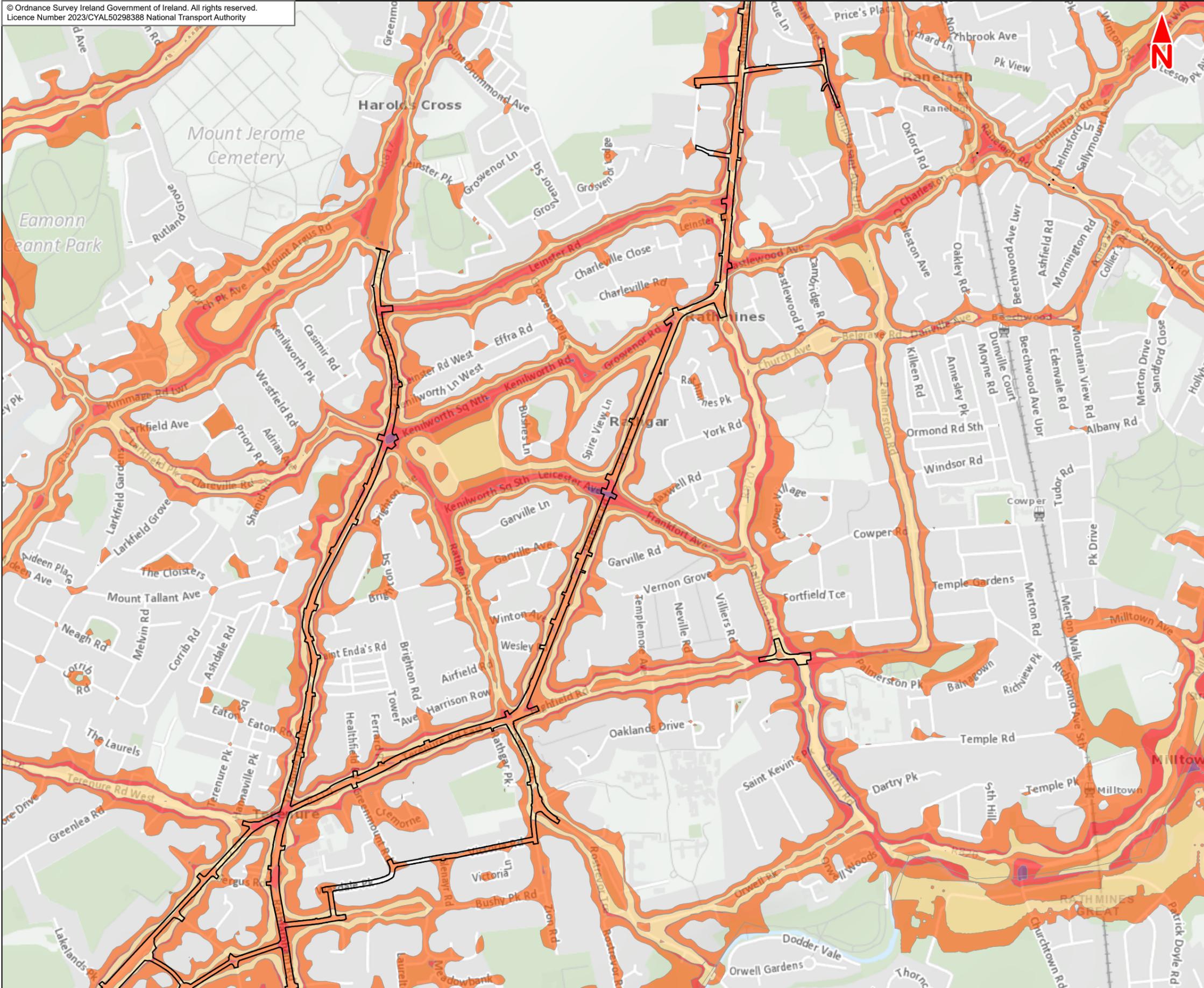
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.1.2 Road Noise Contours Night				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0202	Sheet Number 2 of 4	Status A	Rev M01	

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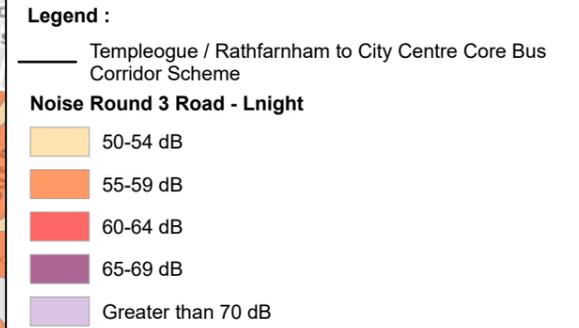
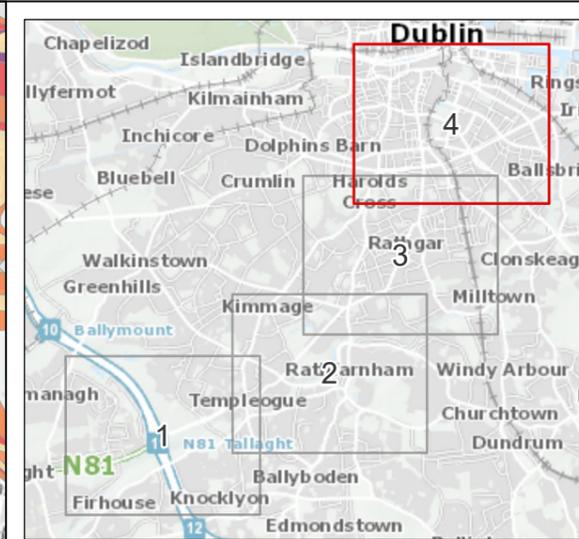
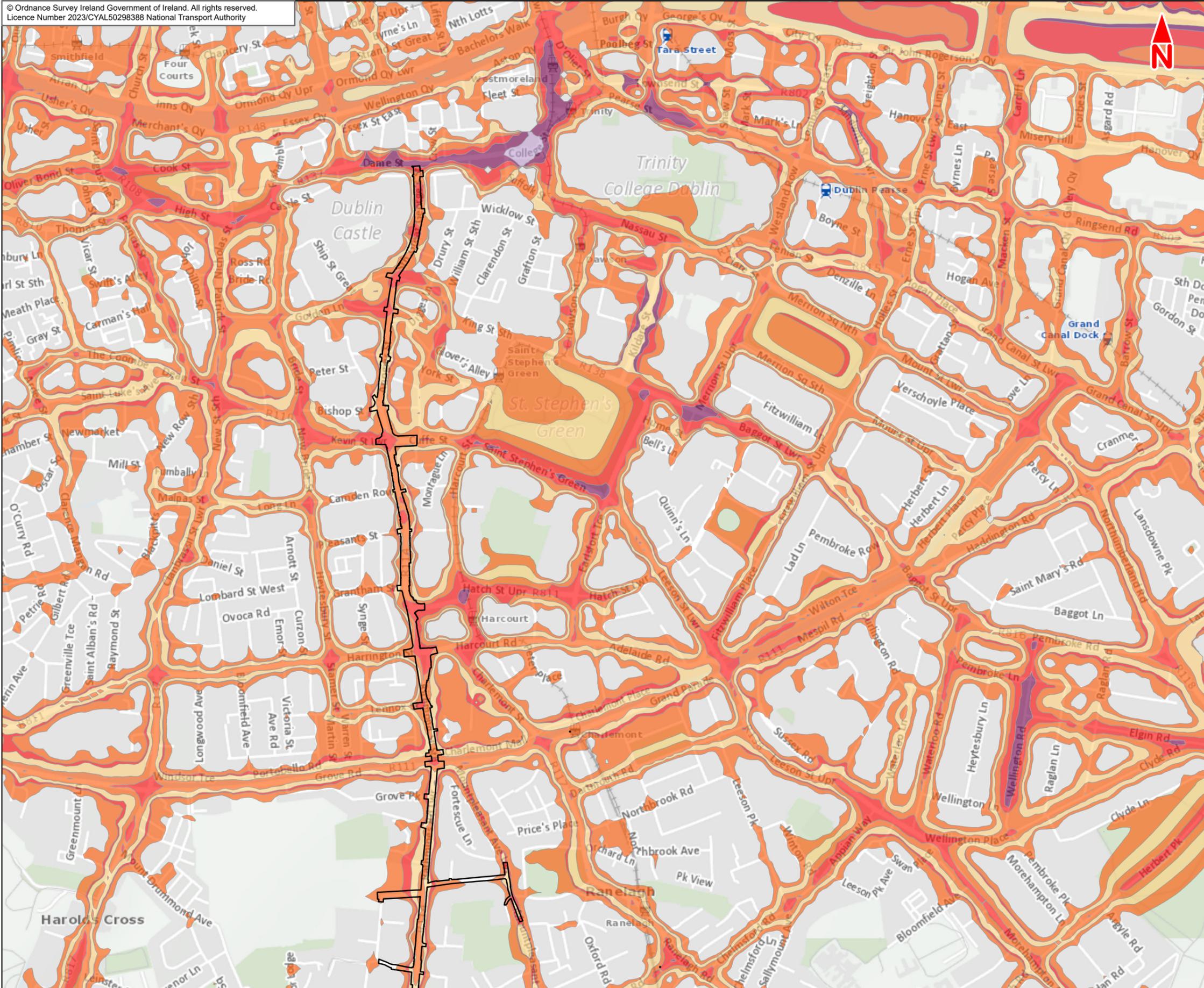
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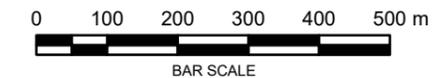
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
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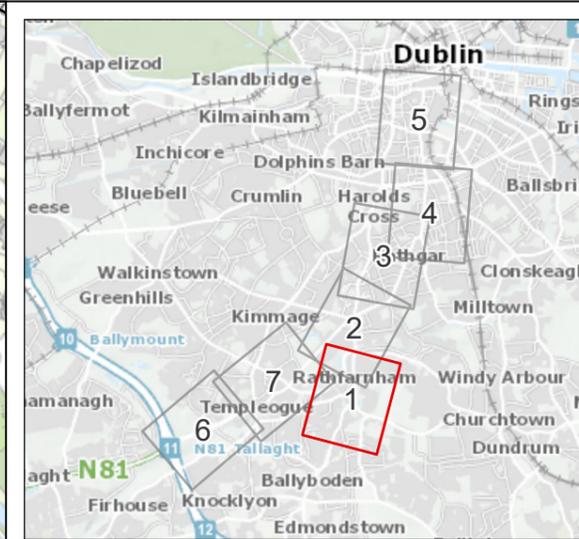
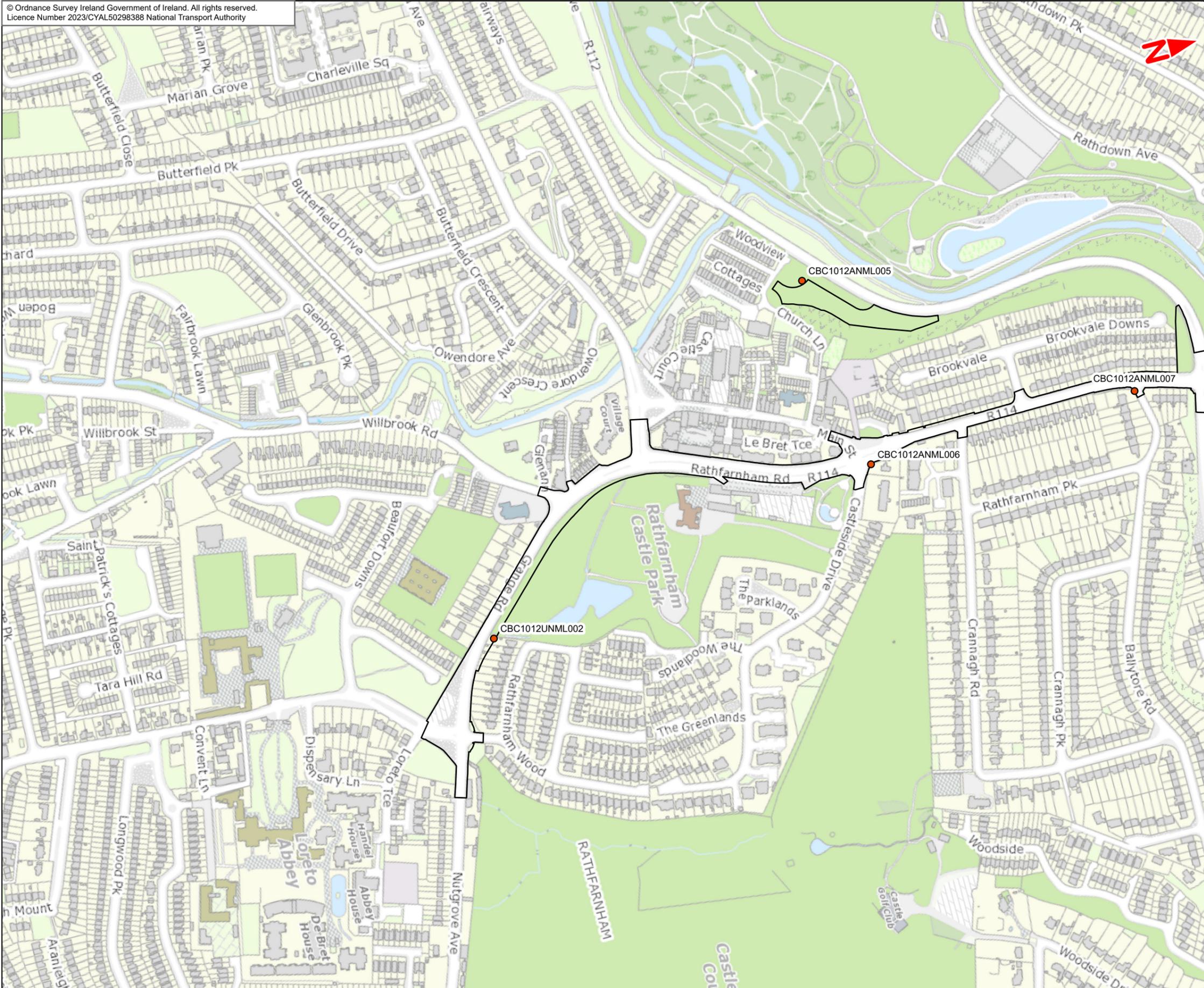
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M01	Feb 2023	HCH	SW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 23/02/2023	Scale @ A3 1:10 000	Drawn HCH	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.1.2 Road Noise Contours Night				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0204	Sheet Number 4 of 4	Status A	Rev M01	



9.2
Noise Monitoring Locations



Legend :
 Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
● Noise Monitoring Locations

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d. Transverse Mercator Grid (ITM) as defined by OSI active local information concerning the position of apparatus shown on this drawing is based on drawings supplied by the utility owners and/or the utility works contractor, whilst every care has been taken in the preparation of this drawing, positions should be taken as approximate and are intended for general guidance only and no representation is made by the NTA as to the accuracy, completeness, sufficiency or otherwise of this drawing and the position of the apparatus. The information contained herein does not purport to be comprehensive or final as the apparatus is subject to being altered and/or superseded. Recipients should not rely on this information. Any liabilities are hereby expressly disclaimed.

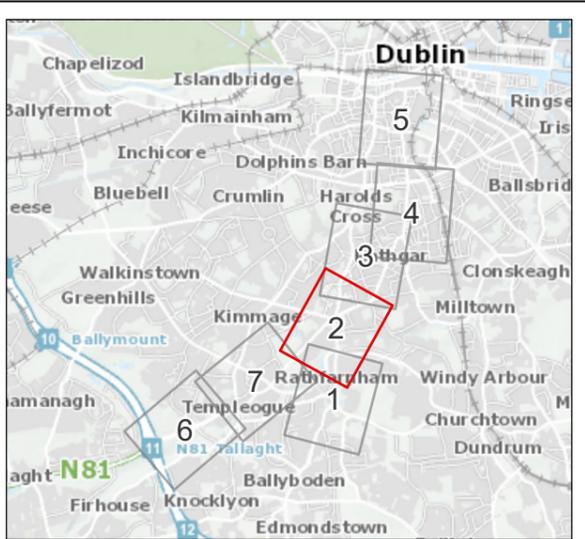
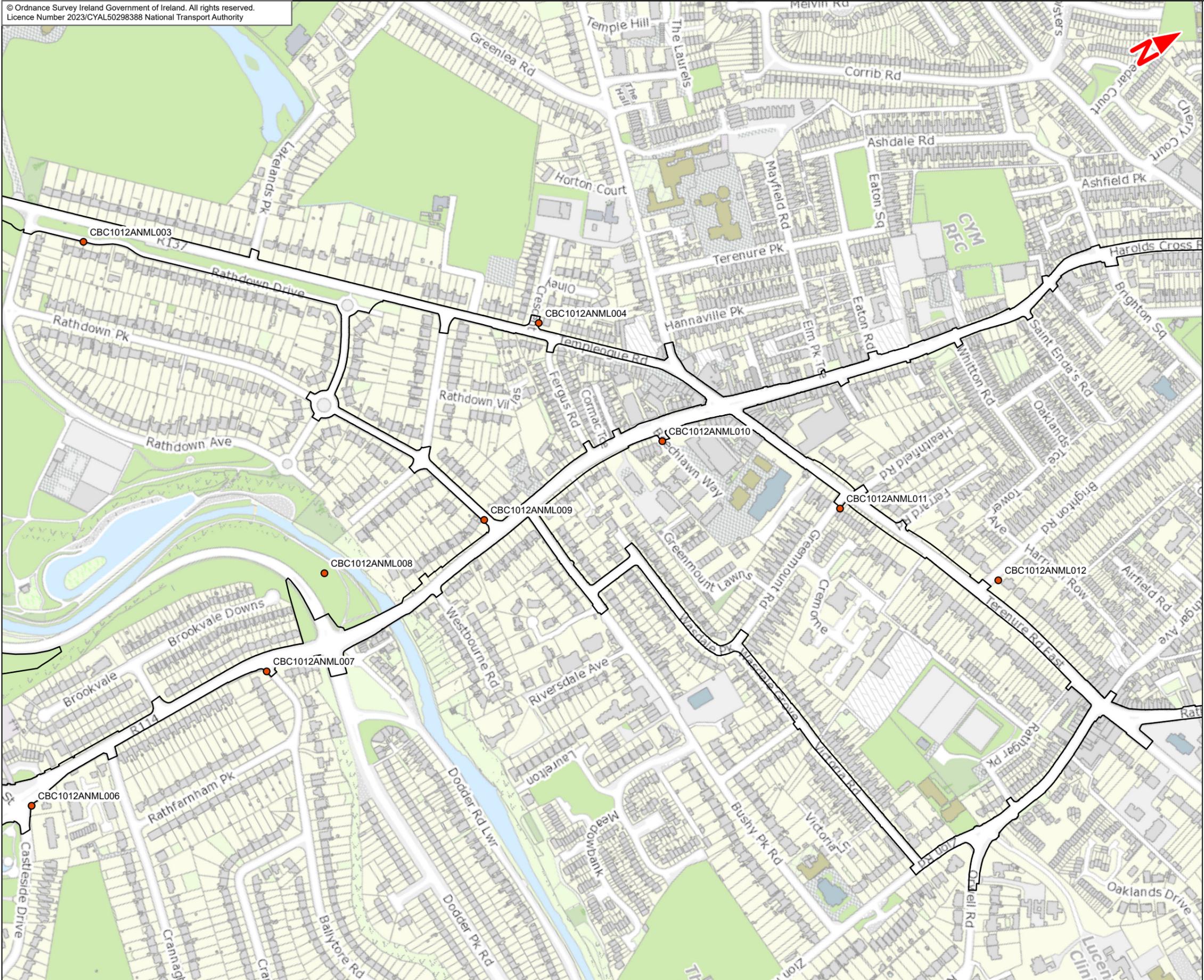
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Date 23/02/2023	Scale @ A3 1:5 000	Drawn HCH	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.2 Noise Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0301	Sheet Number 1 of 7	Status A	Rev M01	



Legend :

- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Noise Monitoring Locations

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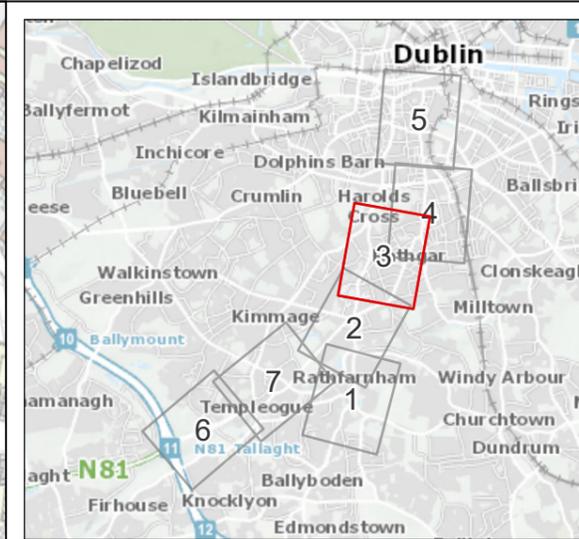
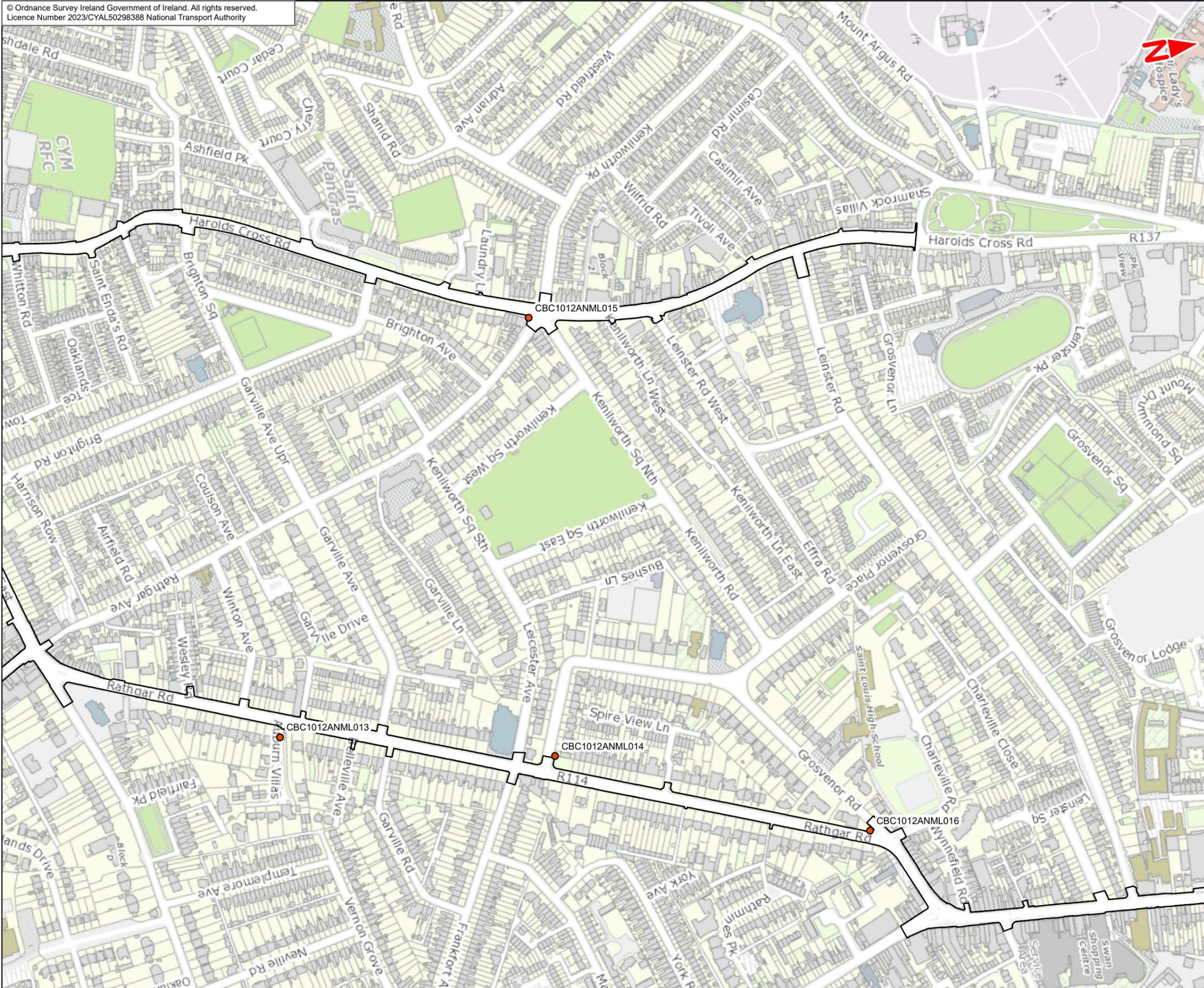
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Date 23/02/2023	Scale @ A3 1:5 000	Drawn HCH	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.2 Noise Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0302	Sheet Number 2 of 7	Status A	Rev M01	



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
 - Noise Monitoring Locations

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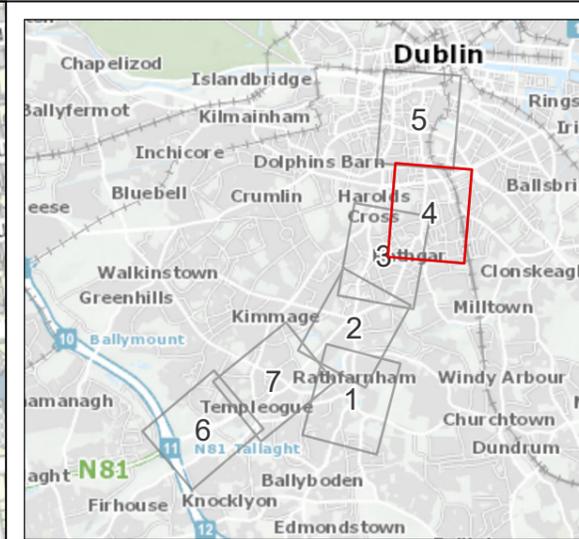
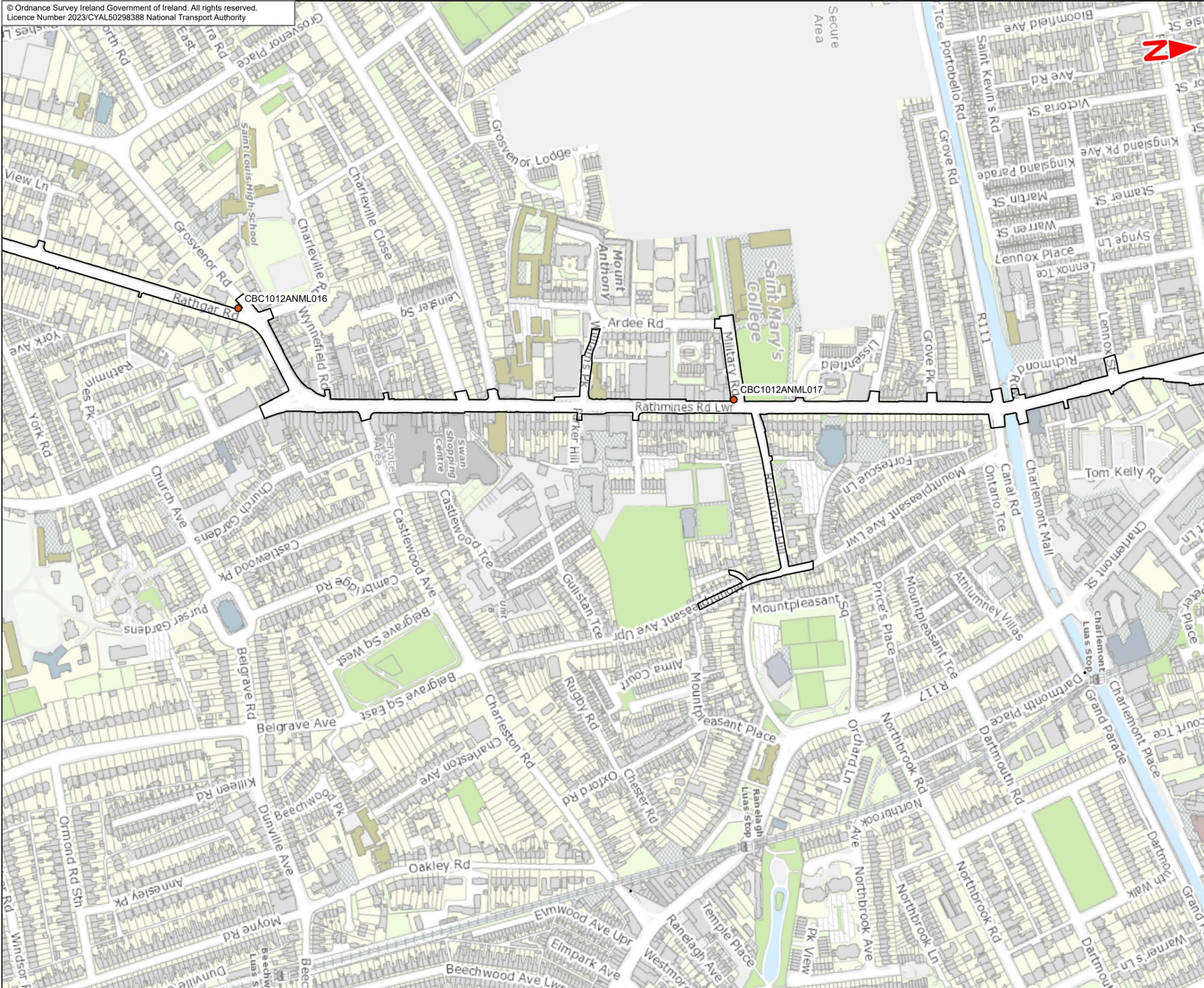
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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.2 Noise Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0303	Sheet Number 3 of 7	Status A	Rev M01	



Legend :
 Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
● Noise Monitoring Locations

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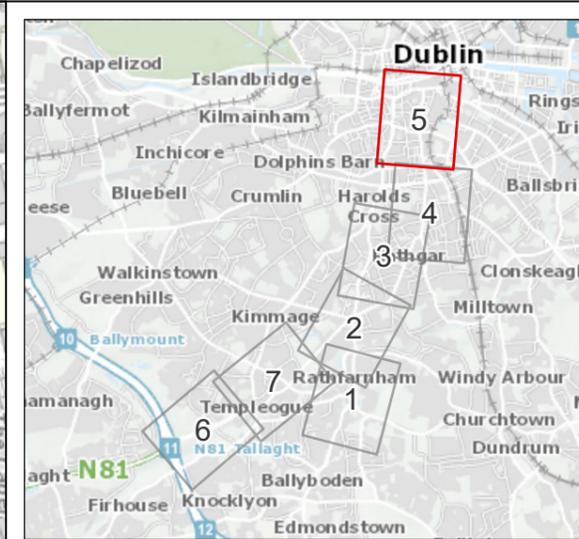
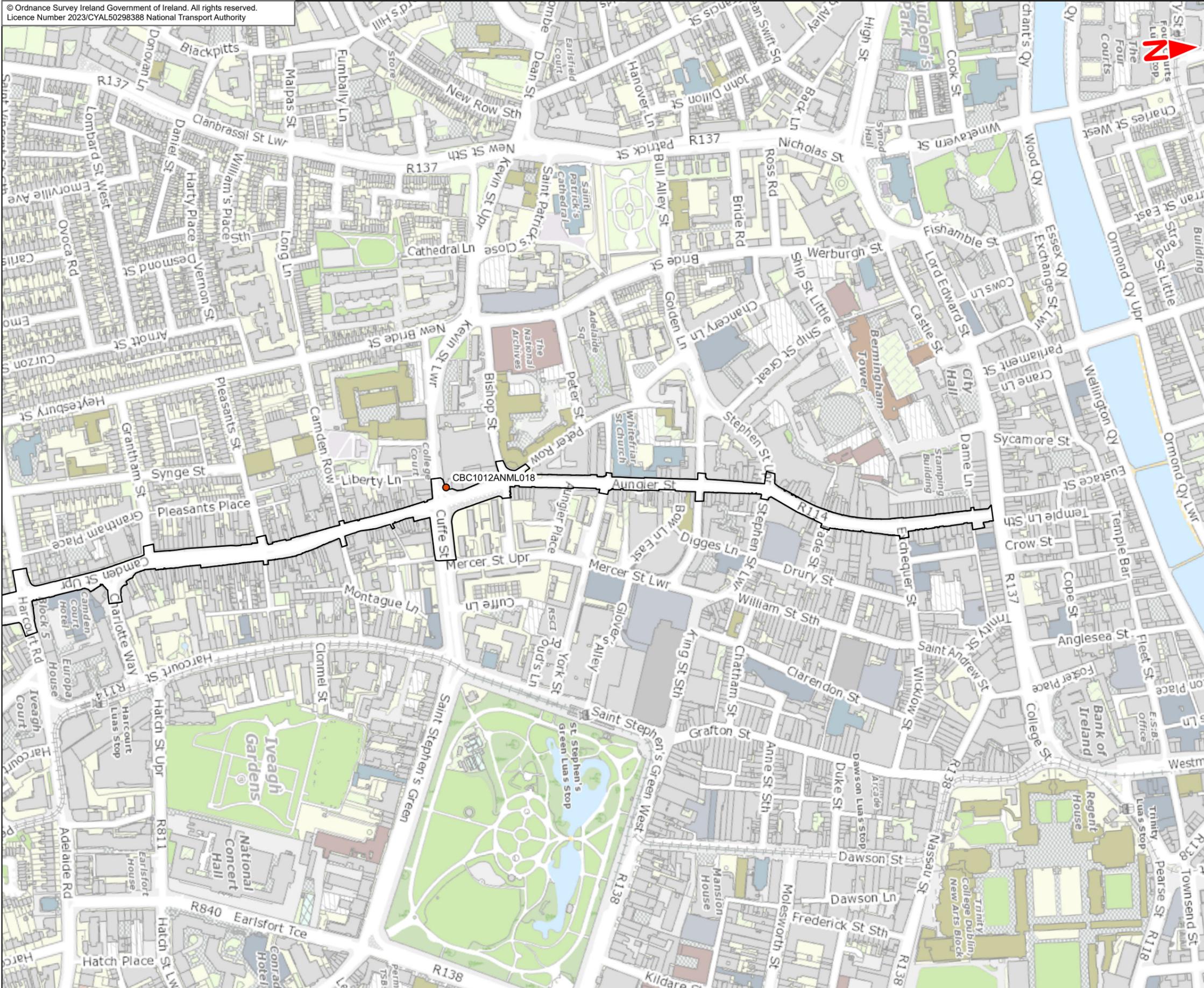
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Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.2 Noise Monitoring Locations			
Drawing File Name BCIDE-JAC-ENV NV-1012_XX 00-DR-GG-0304	Sheet Number 4 of 7	Status A	Rev M01

Date 23/02/2023 **Scale @ A3** 1:5 000
Project Code BCIDE **Originator Code** JAC
Drawn HCH **Checked** SW **Approved** DK
QMS Code



Legend :

- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Noise Monitoring Locations

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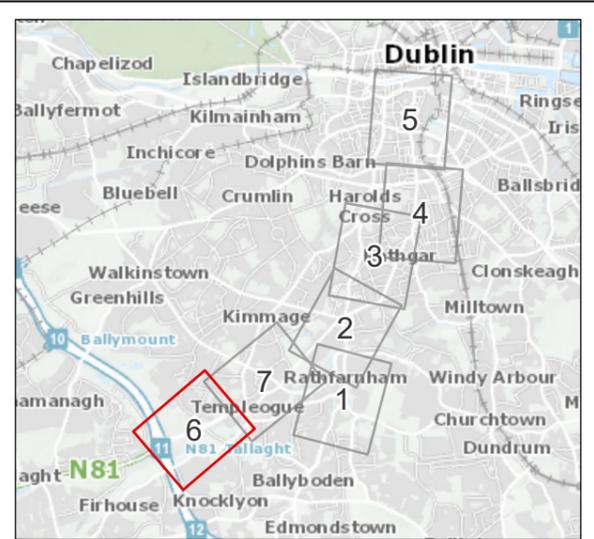
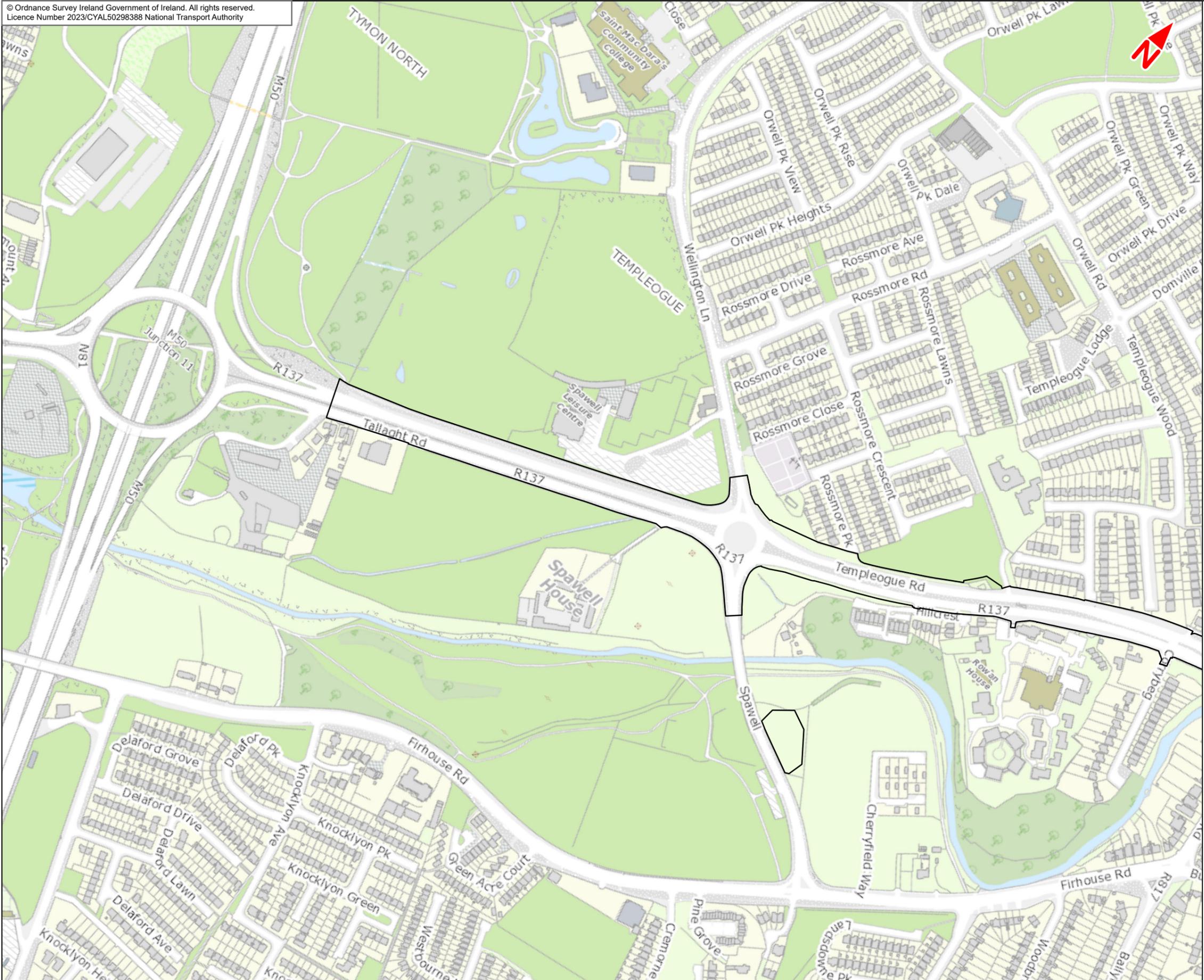
Consultant
JACOBS
ARUP SYSTRA

Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
Figure 9.2
Noise Monitoring Locations

Date	23/02/2023	Scale @ A3	1:5 000	Drawn	HCH	Checked	SW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

Drawing File Name	BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0305	Sheet Number	5 of 7	Status	A	Rev	M01
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Legend :
 Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme

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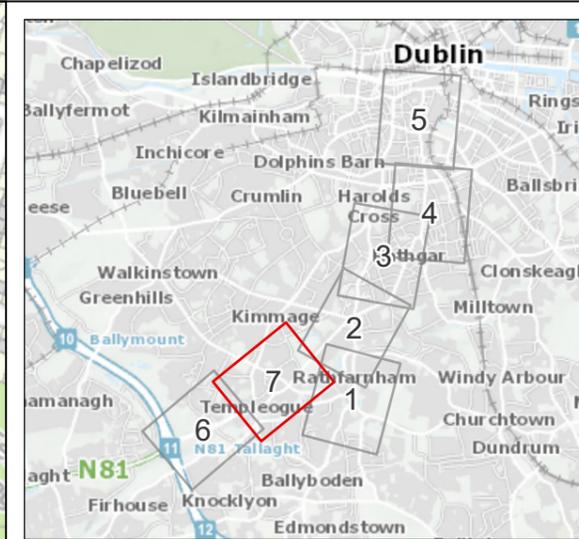
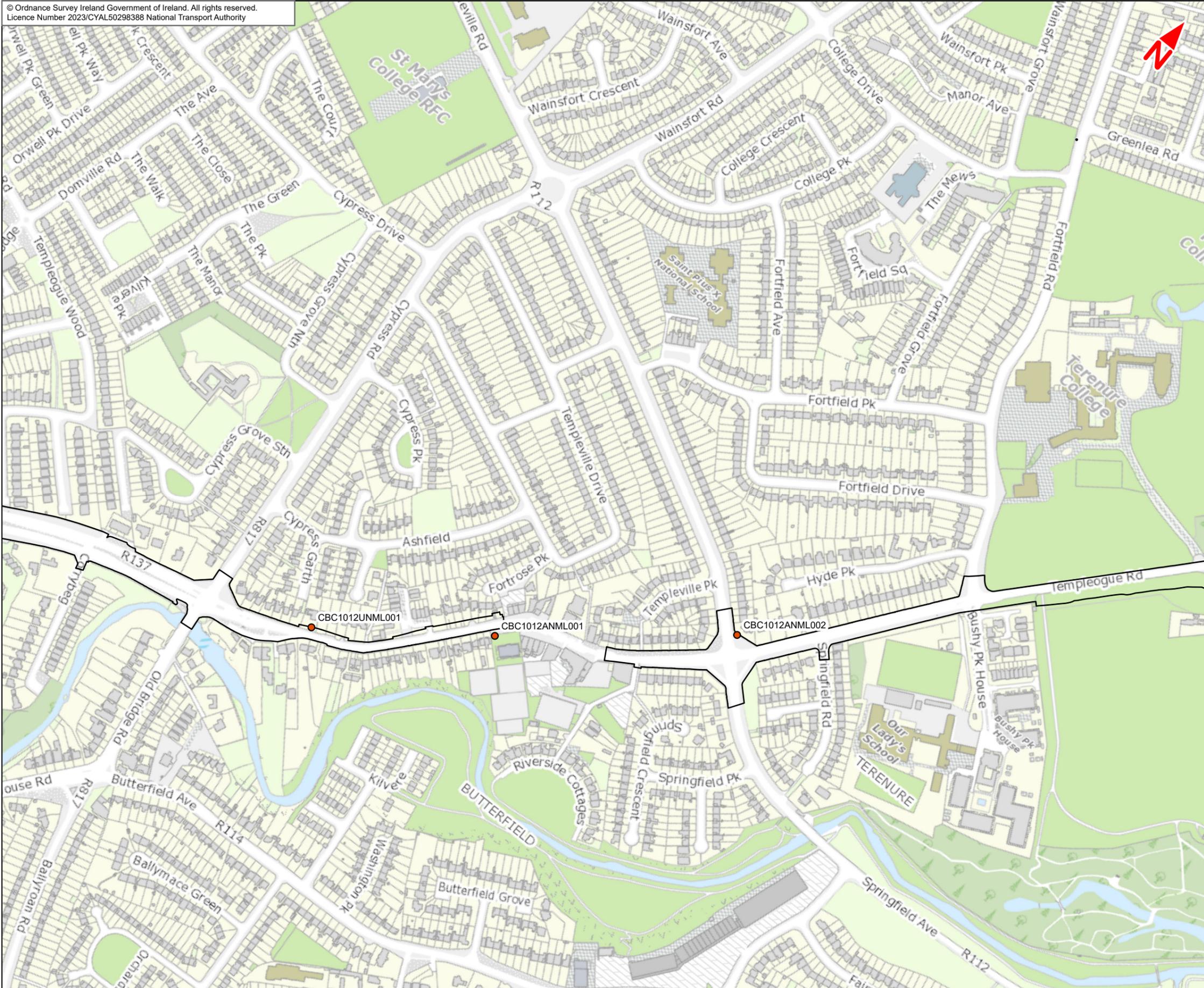
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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.2 Noise Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0306	Sheet Number 6 of 7	Status A	Rev M01	



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
 - Noise Monitoring Locations

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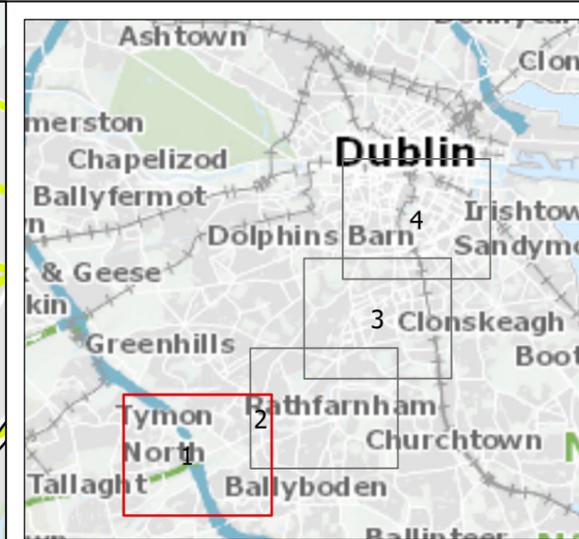
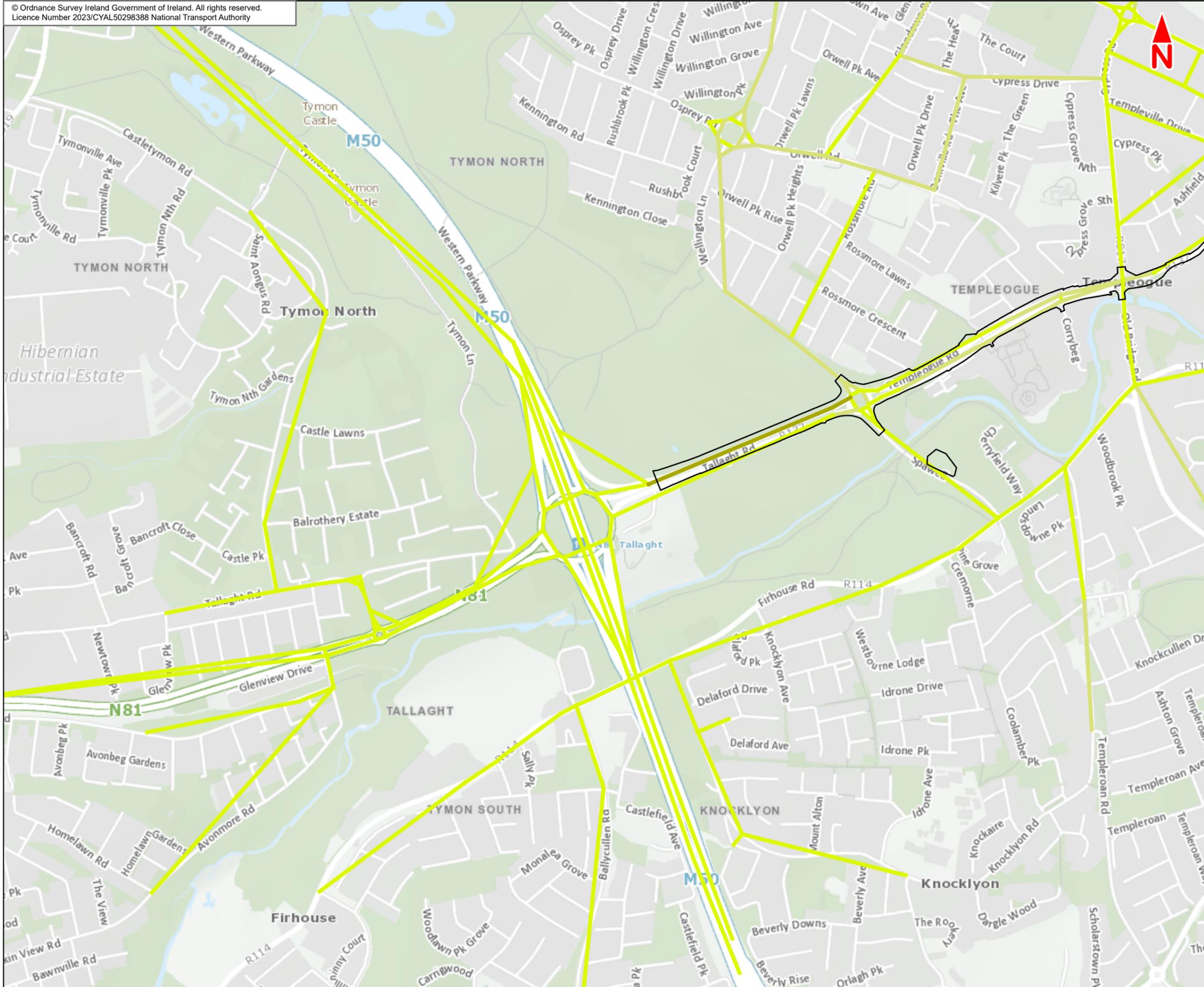
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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.2 Noise Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0307	Sheet Number 7 of 7	Status A	Rev M01	



9.3
Construction Traffic
Noise Impacts



- Legend :**
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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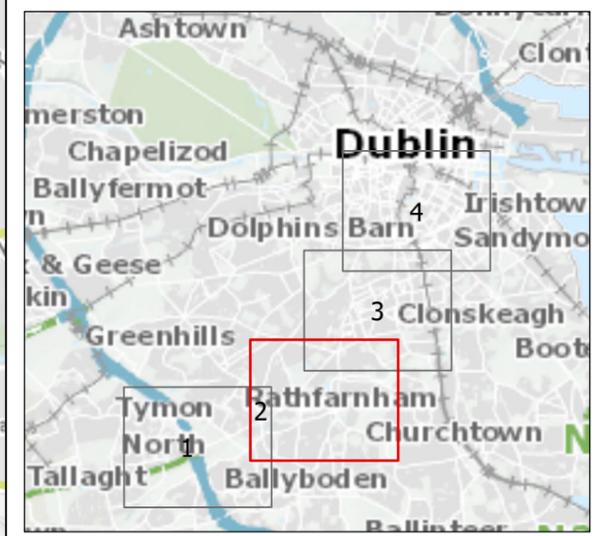
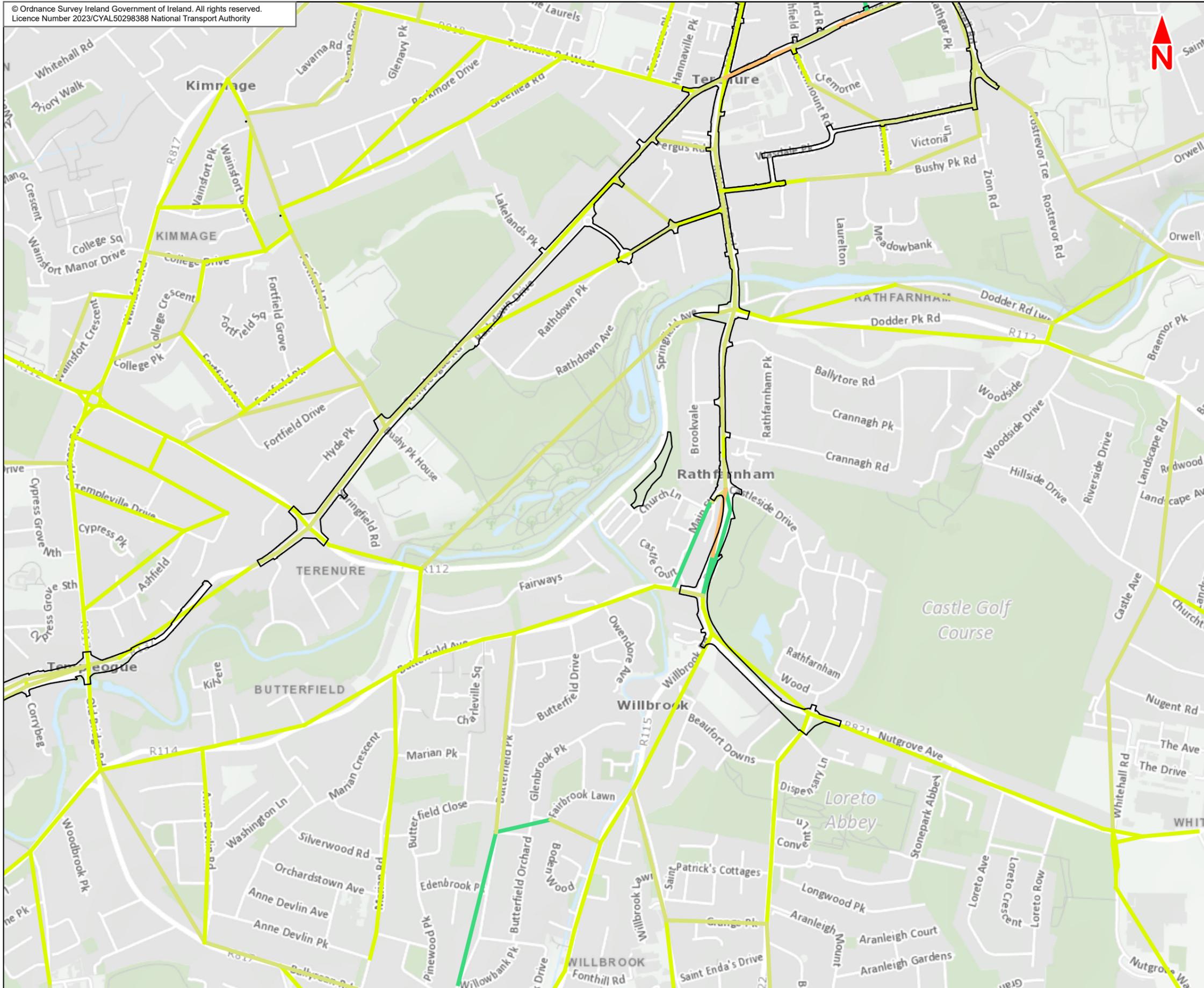


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ARUP SYSTRA

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Date 23/02/2023		Scale @ A3 1:10 000	
Project Code BCIDE		Originator Code JAC	
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0401		Sheet Number 1 of 4	
Status A		Rev M01	



- Legend :**
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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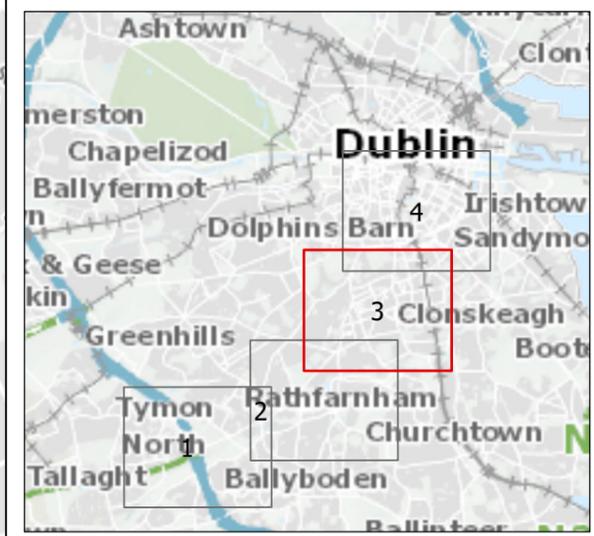
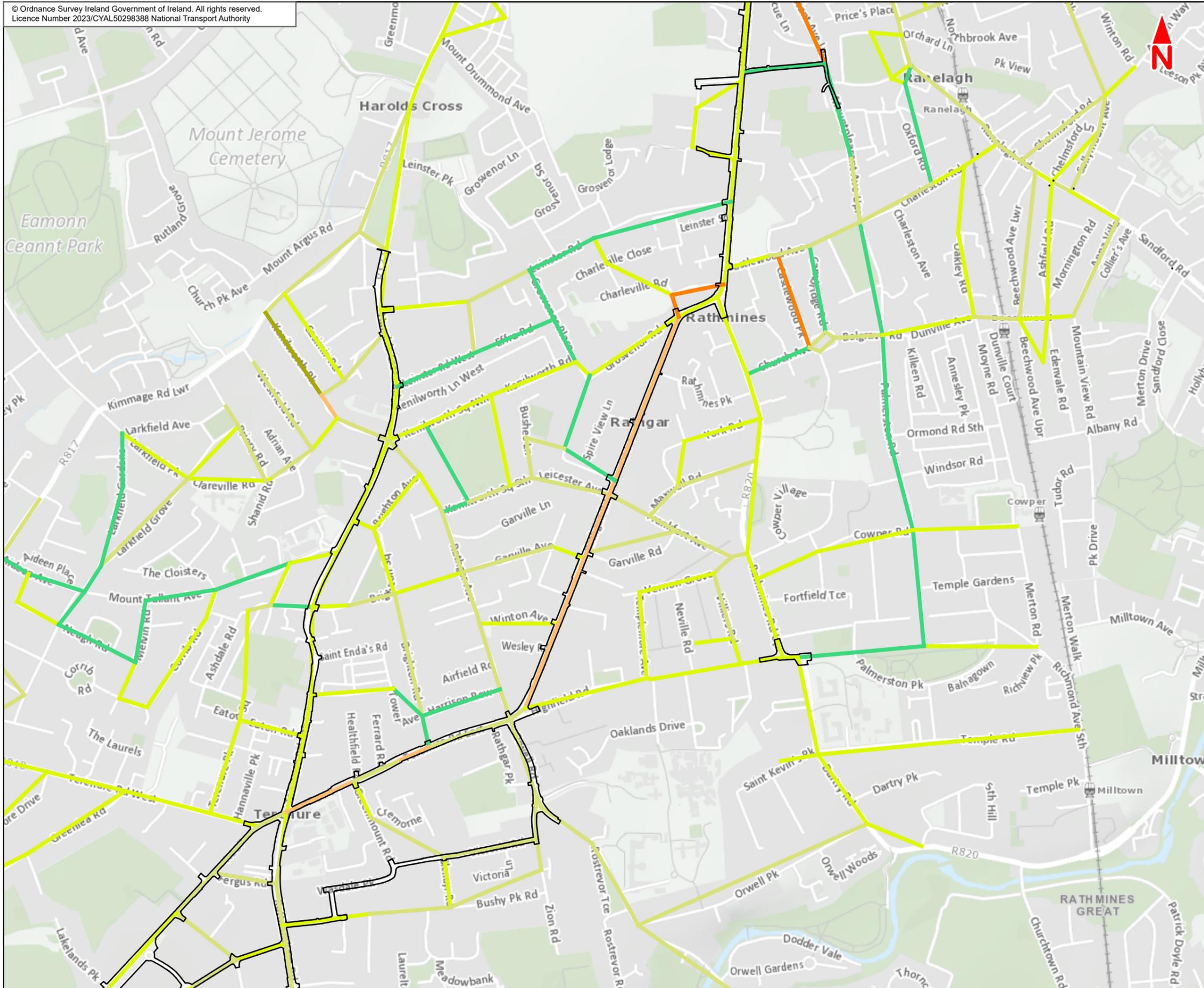
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 2023	HCH	JH	DK	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.3 Construction Traffic Noise Impacts			
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0402	Sheet Number 2 of 4	Status A	Rev M01

Date 23/02/2023	Scale @ A3 1:10 000	Drawn HCH	Checked JH	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



- Legend :**
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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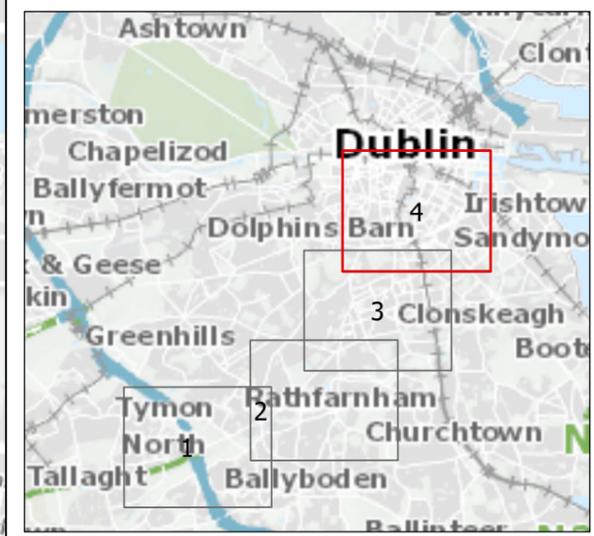
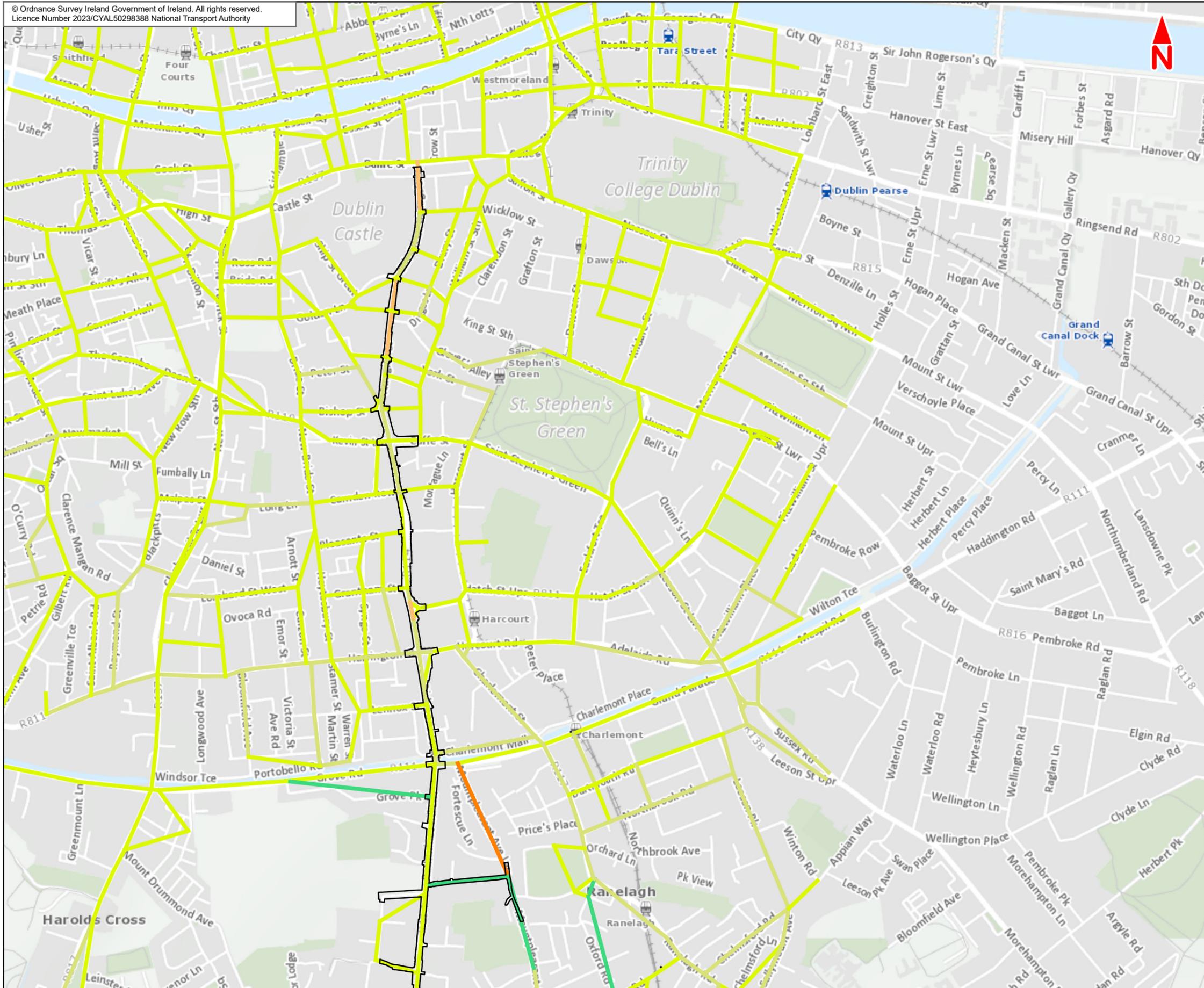
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 2023	HCH	JH	DK	ISSUE FOR PHASE 4: PLANNING

Client

Consultant

Programme Title		BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS		
Drawing Title		Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.3 Construction Traffic Noise Impacts		
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0403	3 of 4	A	M01	

Date	Scale @ A3	Drawn	Checked	Approved
23/02/2023	1:10 000	HCH	JH	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			



- Legend :**
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
 - Overall Significance**
 - Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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M01	Feb 2023	HCH	JH	DK	ISSUE FOR PHASE 4: PLANNING

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National Transport Authority

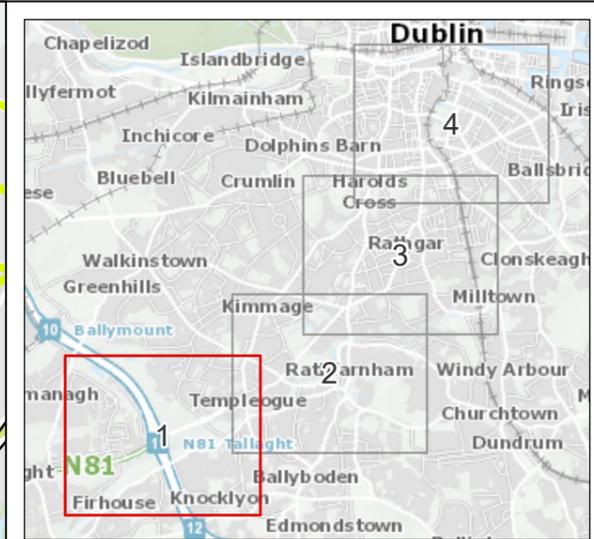
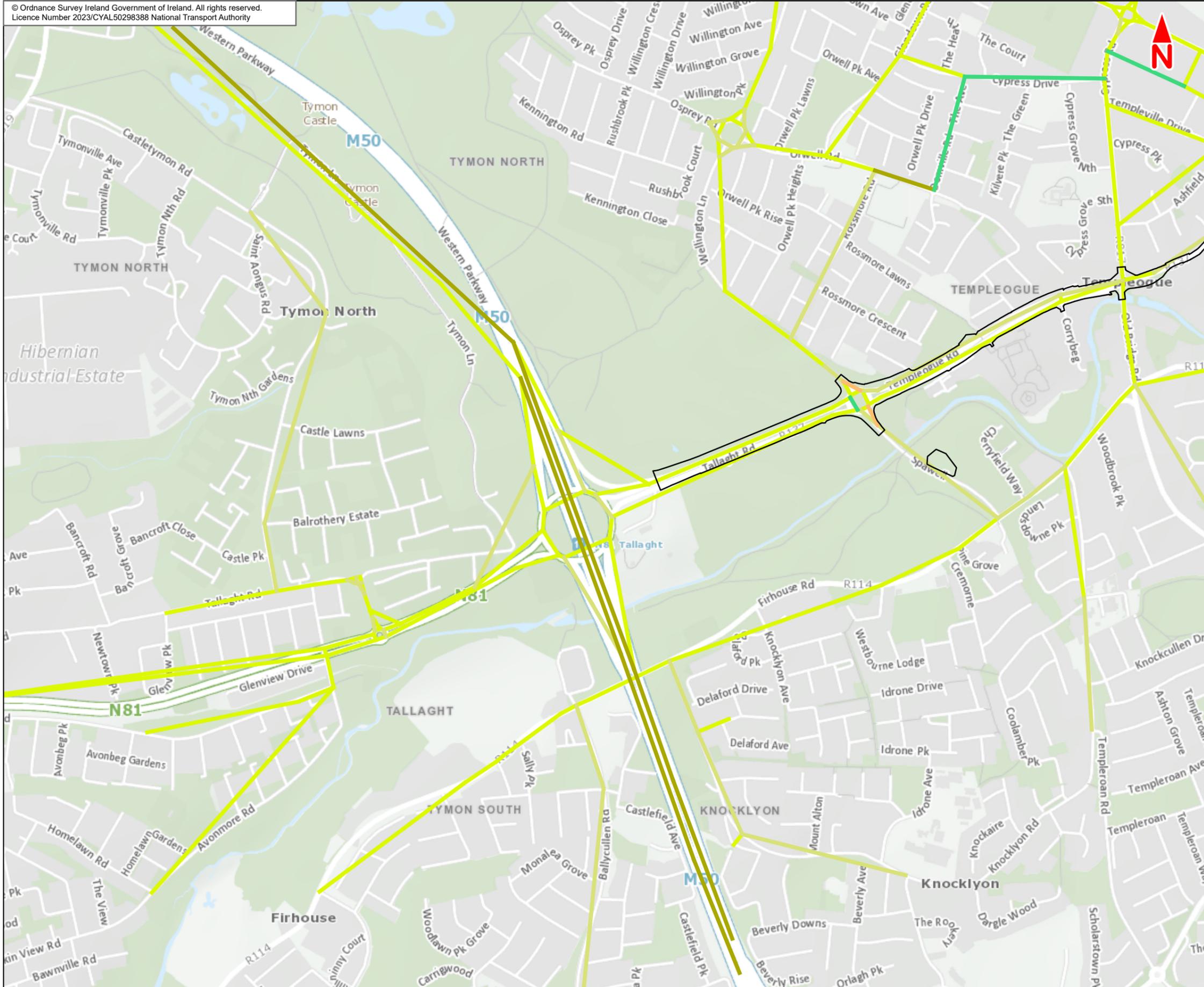
Consultant: **JACOBS ARUP SYSTRA**

Date: 23/02/2023 Scale @ A3: 1:10 000
 Drawn: HCH Checked: JH Approved: DK
 Project Code: BCIDE Originator Code: JAC QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.3 Construction Traffic Noise Impacts			
Drawing File Name: BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0404	Sheet Number: 4 of 4	Status: A	Rev: M01



9.4
Opening Year 2028 Traffic
Noise Impact Summary



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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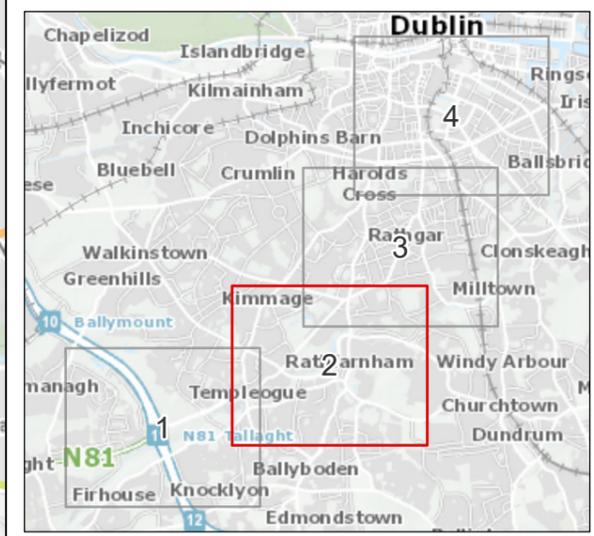
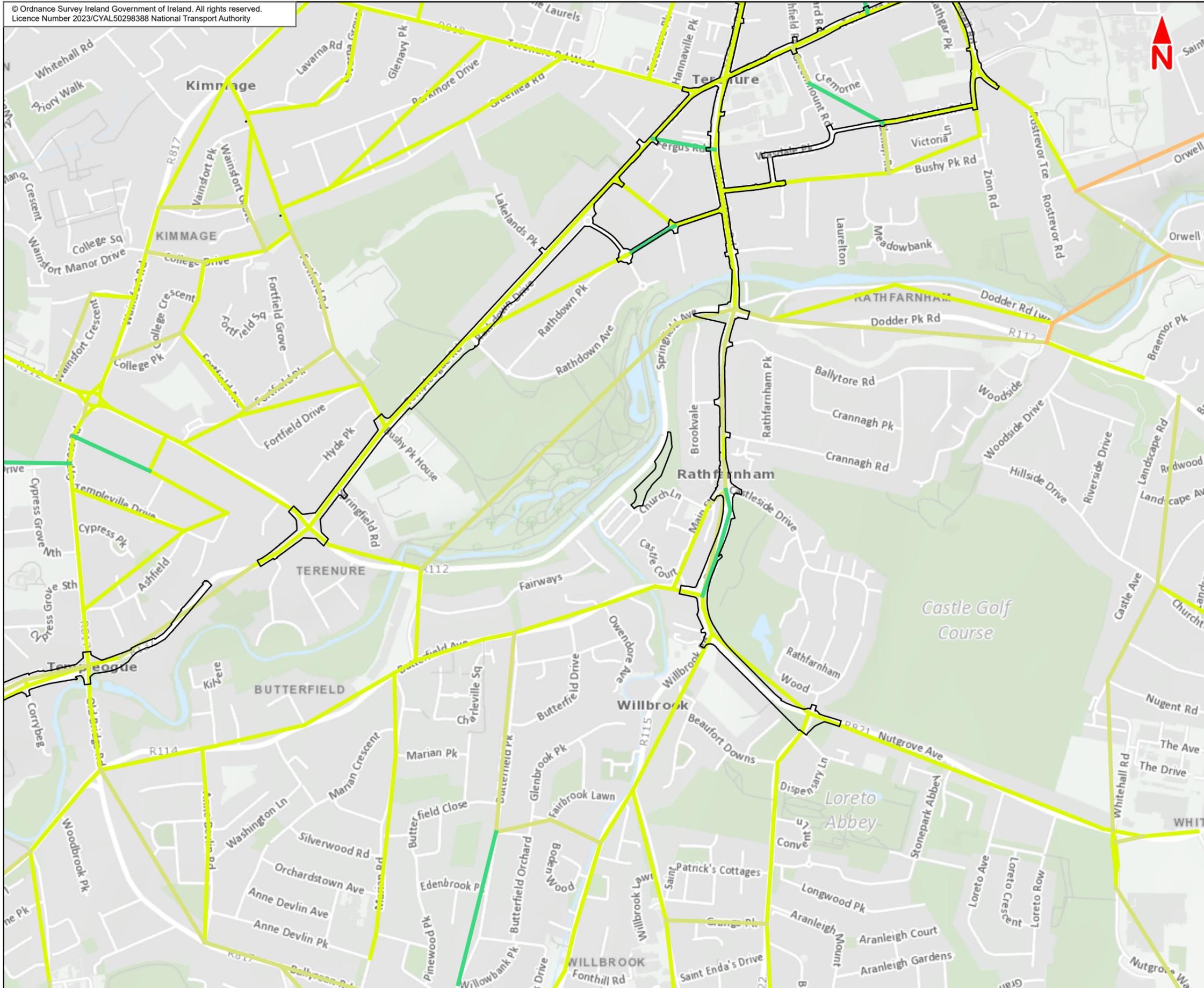
Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 23/02/2023 Scale @ A3: 1:10 000
Project Code: BCIDE Originator Code: JAC

Drawn: HCH Checked: JH Approved: DK

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme			
Figure 9.4			
Opening Year 2028			
Traffic Noise Impact Summary			
Drawing File Name: BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0501	Sheet Number: 1 of 4	Status: A	Rev: M01



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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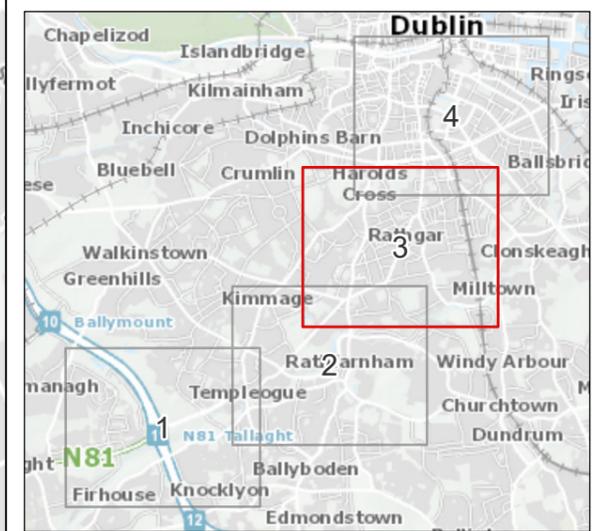
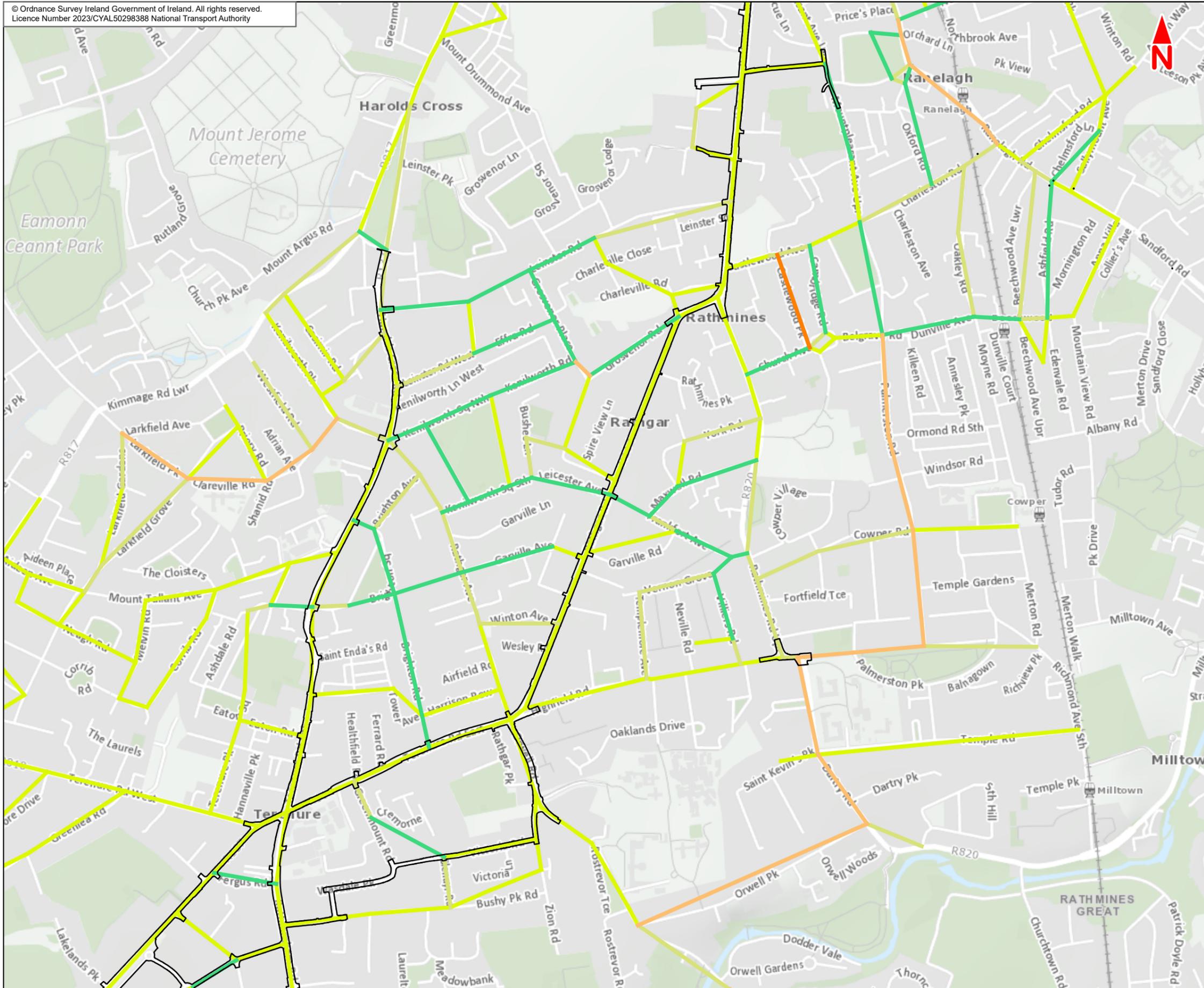
Rev	Date	Drn	Chk'd	App'd	Description
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Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.4 Opening Year 2028 Traffic Noise Impact Summary	
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0502	Sheet Number 2 of 4
Status A	Rev M01

Date 23/02/2023	Scale @ A3 1:10 000	Drawn HCH	Checked JH	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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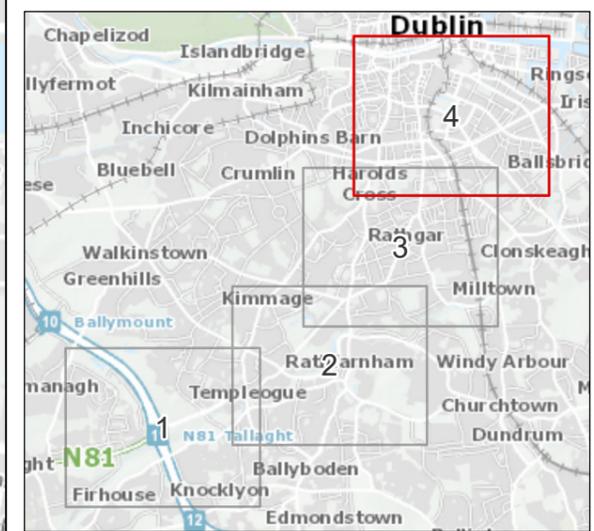
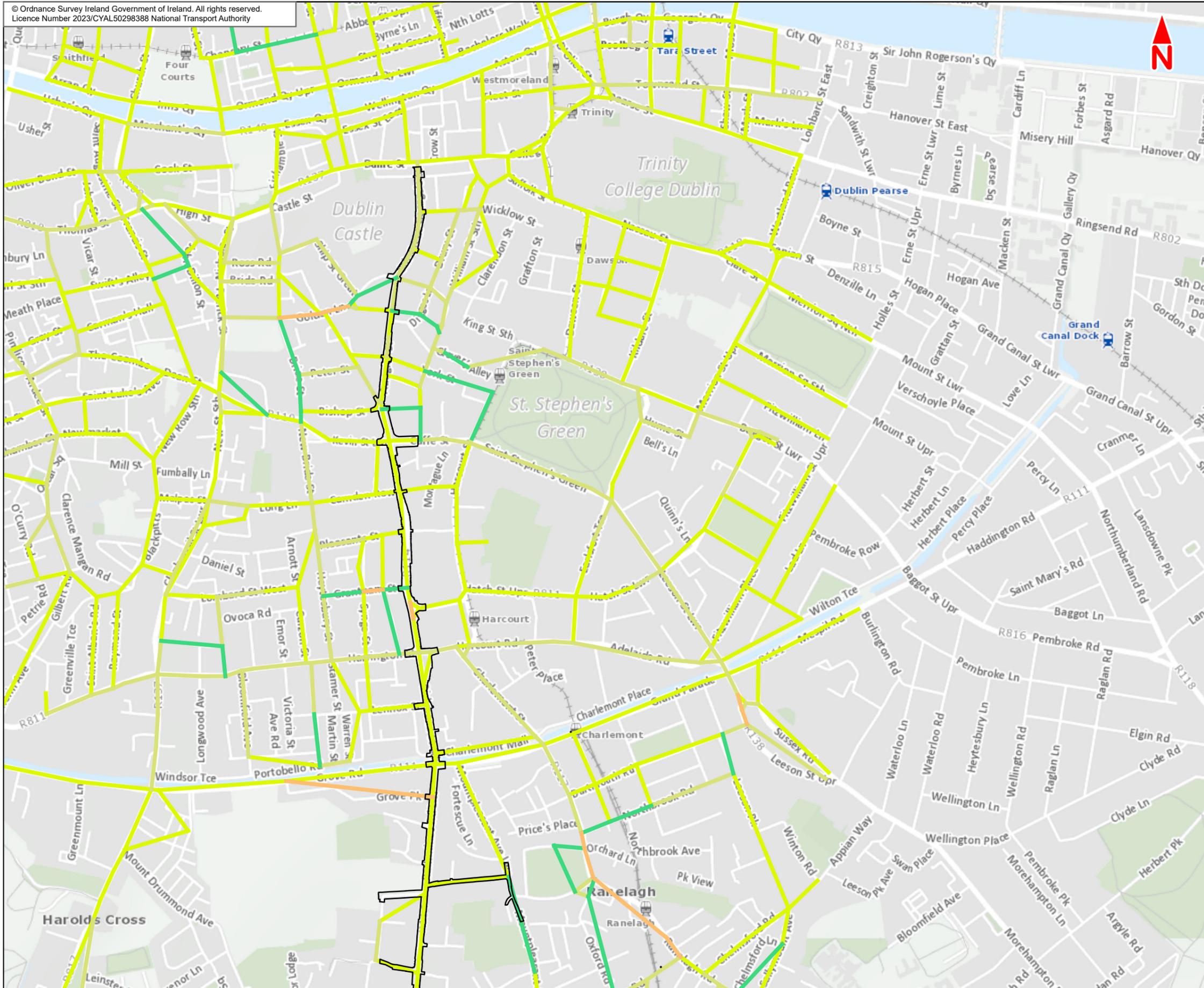
Client

Date: 23/02/2023
Scale @ A3: 1:10 000

Consultant

Drawn: HCH
Checked: JH
Approved: DK

Programme Title				BUSCONNECTS DUBLIN		
				CORE BUS CORRIDORS INFRASTRUCTURE WORKS		
Drawing Title				Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme		
				Figure 9.4		
				Opening Year 2028		
				Traffic Noise Impact Summary		
Drawing File Name	Sheet Number	Status	Rev			
BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0503	3 of 4	A	M01			



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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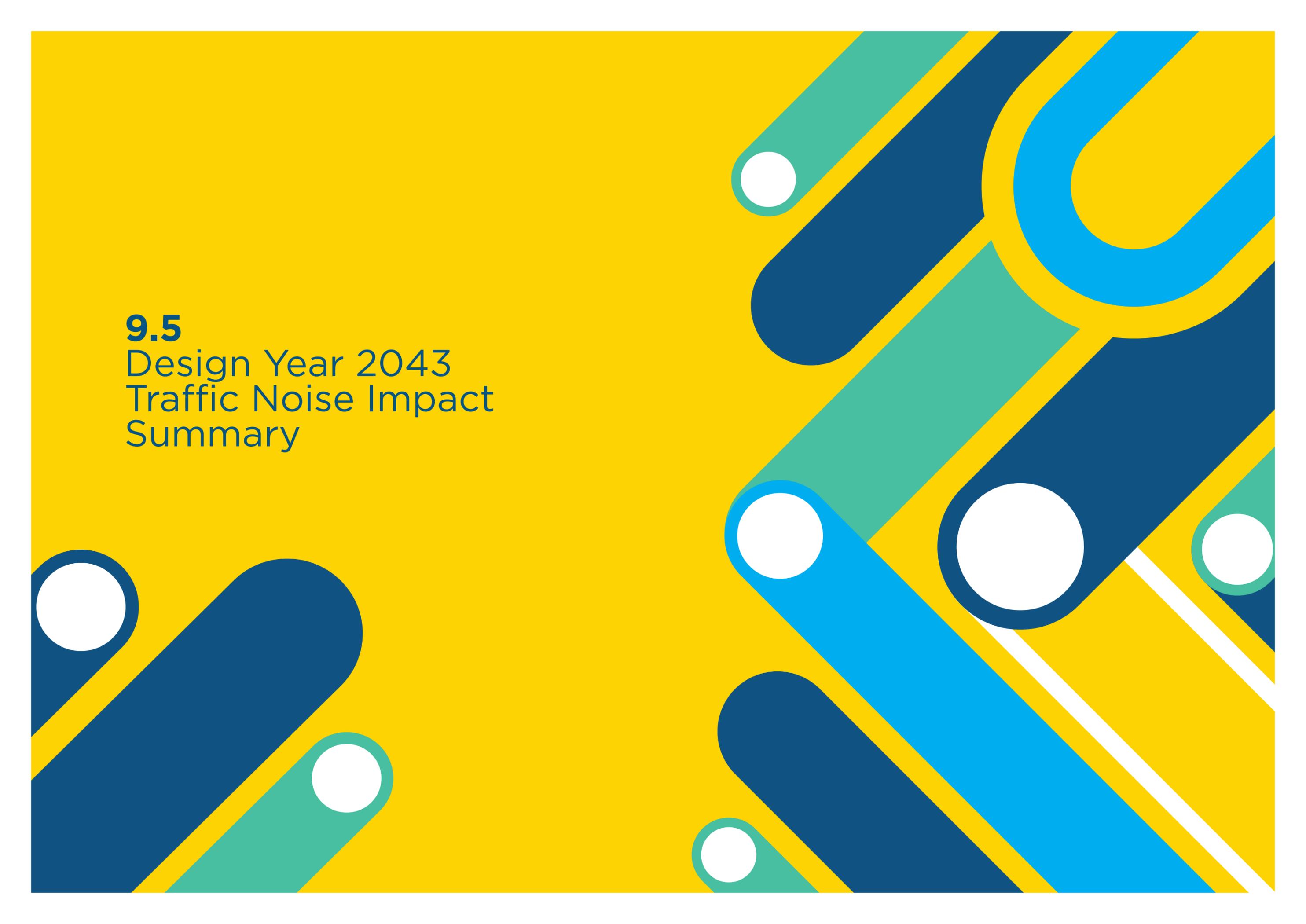
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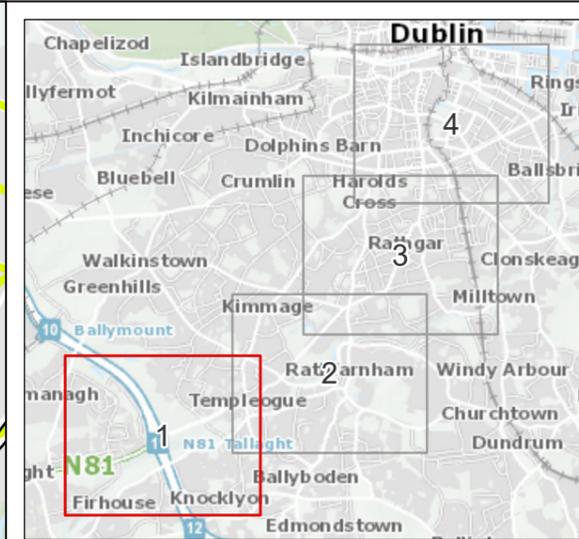
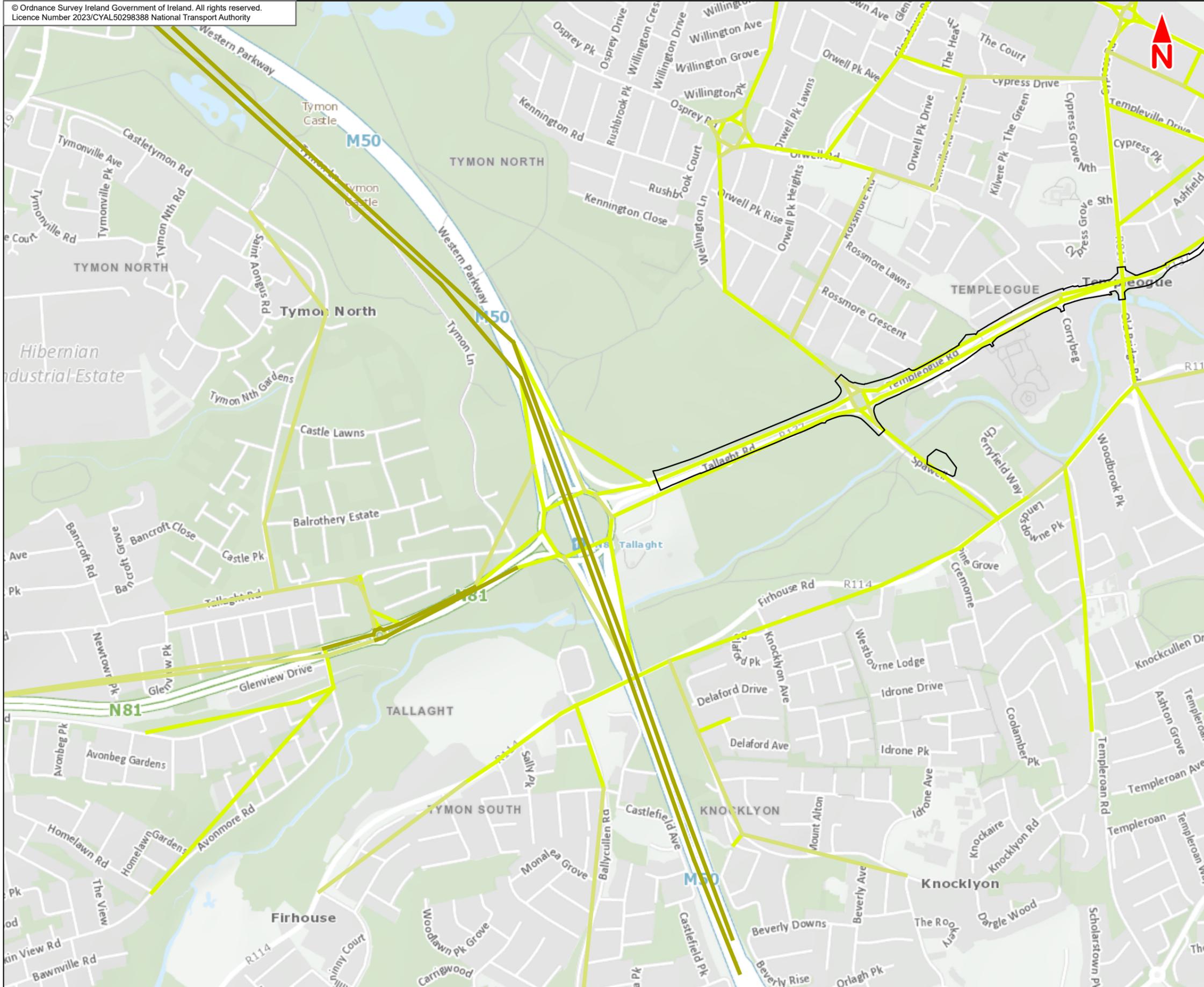
Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.4 Opening Year 2028 Traffic Noise Impact Summary				
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0504	Sheet Number 4 of 4	Status A	Rev M01	

Date 23/02/2023	Scale @ A3 1:10 000	Drawn HCH	Checked JH	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



9.5
Design Year 2043
Traffic Noise Impact
Summary



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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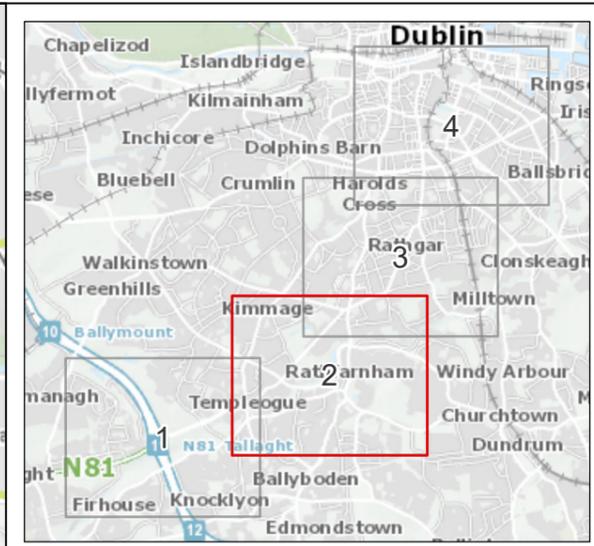
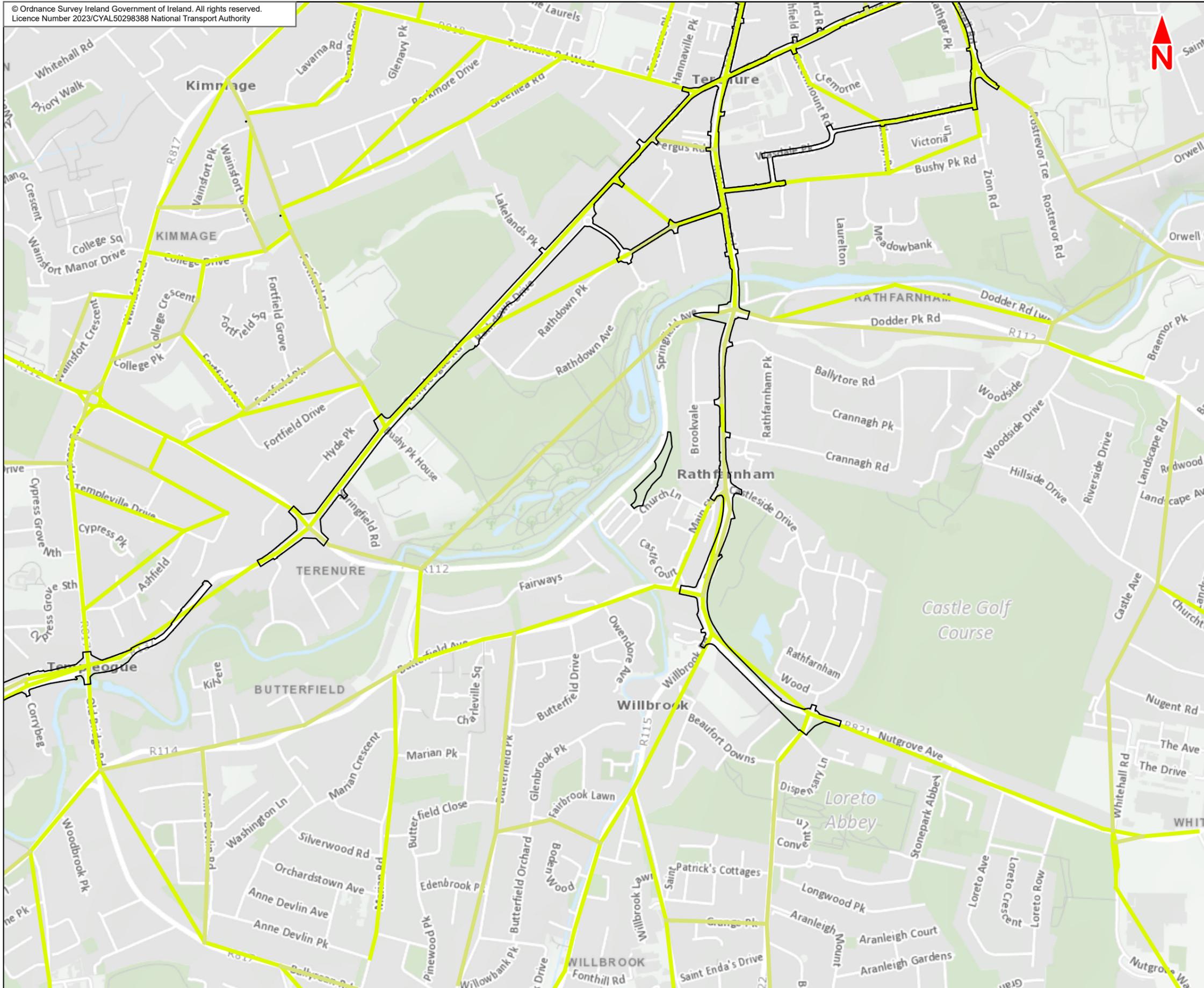
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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 23/02/2023 Scale @ A3: 1:10 000
Project Code: BCIDE Originator Code: JAC

Drawn: HCH Checked: JH Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.5 Design Year 2043 Traffic Noise Impact Summary			
Drawing File Name: BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0601	Sheet Number: 1 of 4	Status: A	Rev: M01



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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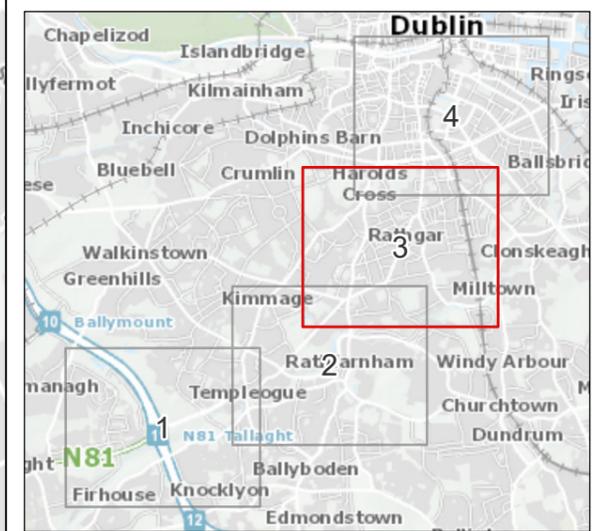
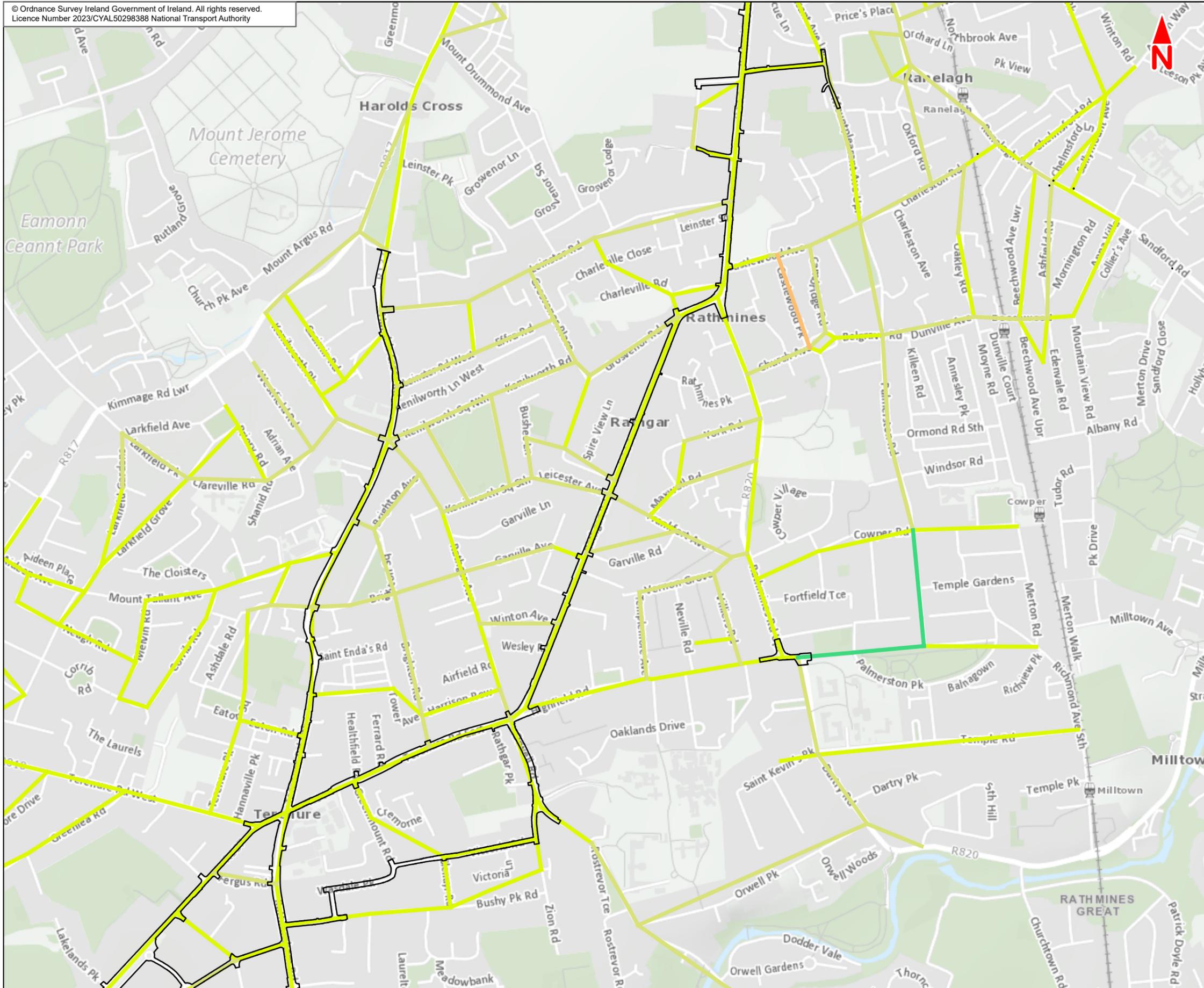
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 2023	HCH	JH	DK	ISSUE FOR PHASE 4: PLANNING

Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS	
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 9.5 Design Year 2043 Traffic Noise Impact Summary	
Drawing File Name BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0602	Sheet Number 2 of 4
Status A	Rev M01

Date 23/02/2023	Scale @ A3 1:10 000	Drawn HCH	Checked JH	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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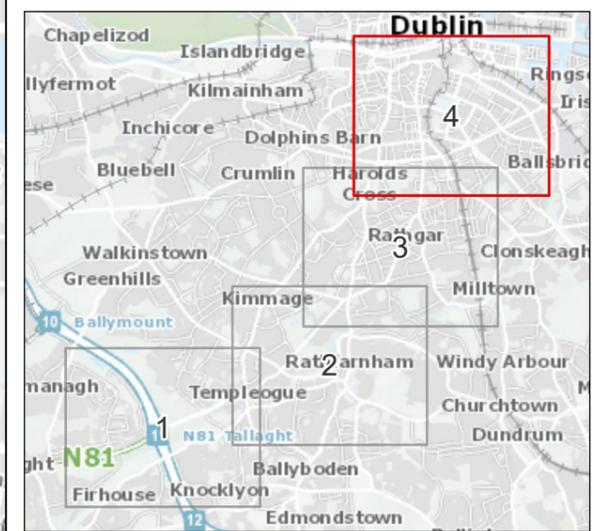
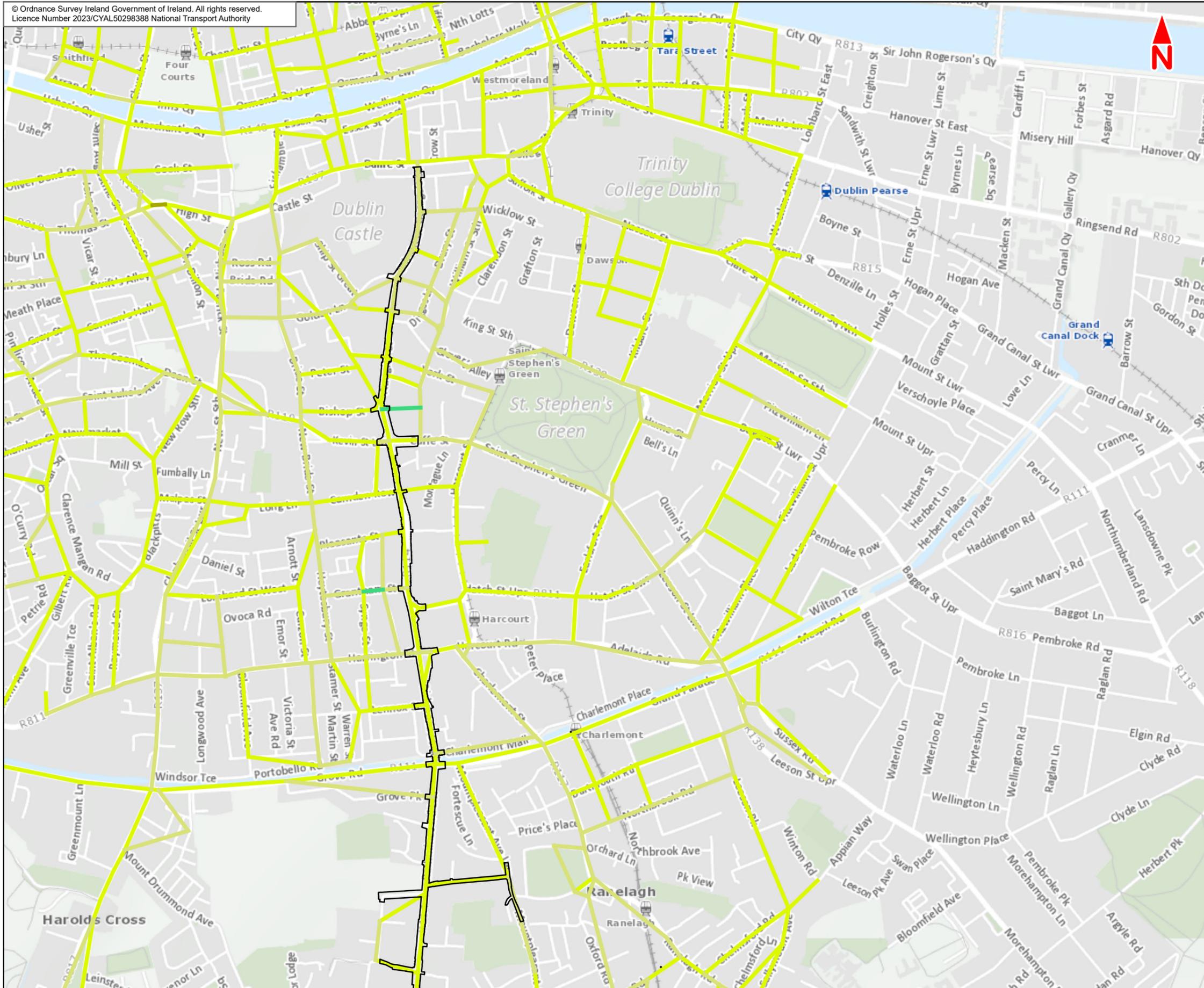
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 2023	HCH	JH	DK	ISSUE FOR PHASE 4: PLANNING

Client

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Programme Title		BUSCONNECTS DUBLIN		
		CORE BUS CORRIDORS INFRASTRUCTURE WORKS		
Drawing Title		Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme		
		Figure 9.5		
		Design Year 2043		
		Traffic Noise Impact Summary		
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0603	3 of 4	A	M01	

Date	Scale @ A3	Drawn	Checked	Approved
23/02/2023	1:10 000	HCH	JH	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			



- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
- Overall Significance**
- Imperceptible / Positive
 - Not Significant
 - Not Significant - Slight
 - Slight
 - Slight - Moderate
 - Moderate
 - Moderate - Significant

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Date: 23/02/2023
Scale @ A3: 1:10 000

Consultant

Drawn: HCH
Checked: JH
Approved: DK

Programme Title				BUSCONNECTS DUBLIN			
				CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title				Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme			
				Figure 9.5			
				Design Year 2043			
				Traffic Noise Impact Summary			
Drawing File Name		Sheet Number		Status		Rev	
BCIDE-JAC-ENV_NV-1012_XX_00-DR-GG-0604		4 of 4		A		M01	