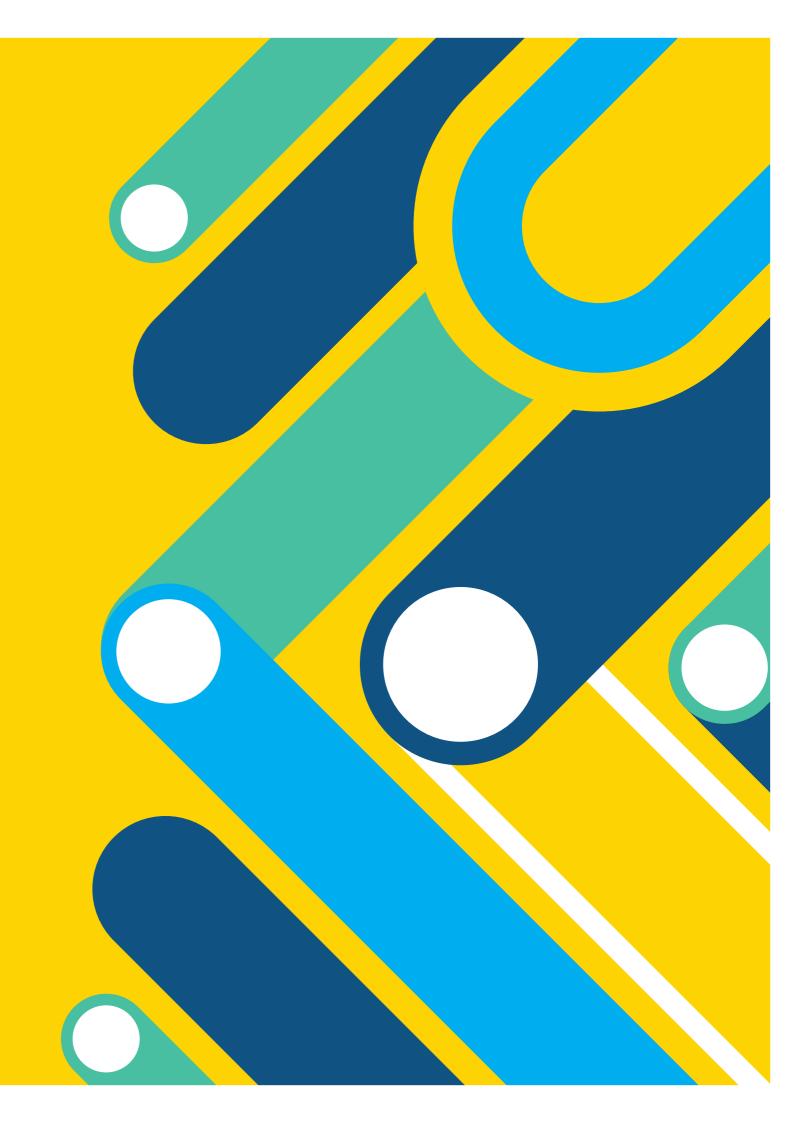
Chapter 14 Land, Soils, Geology & Hydrogeology

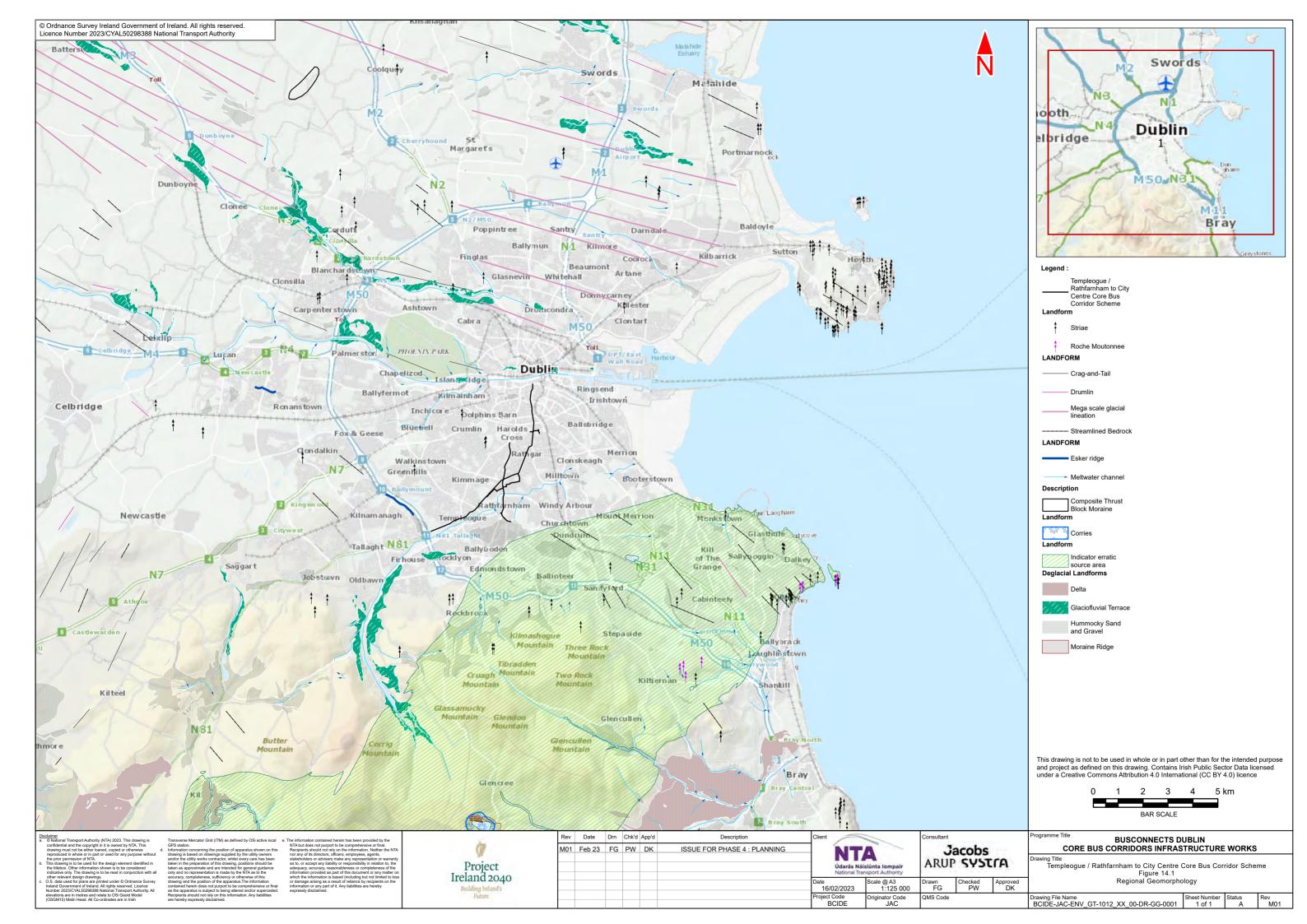




14.1 Regional Geomorphology

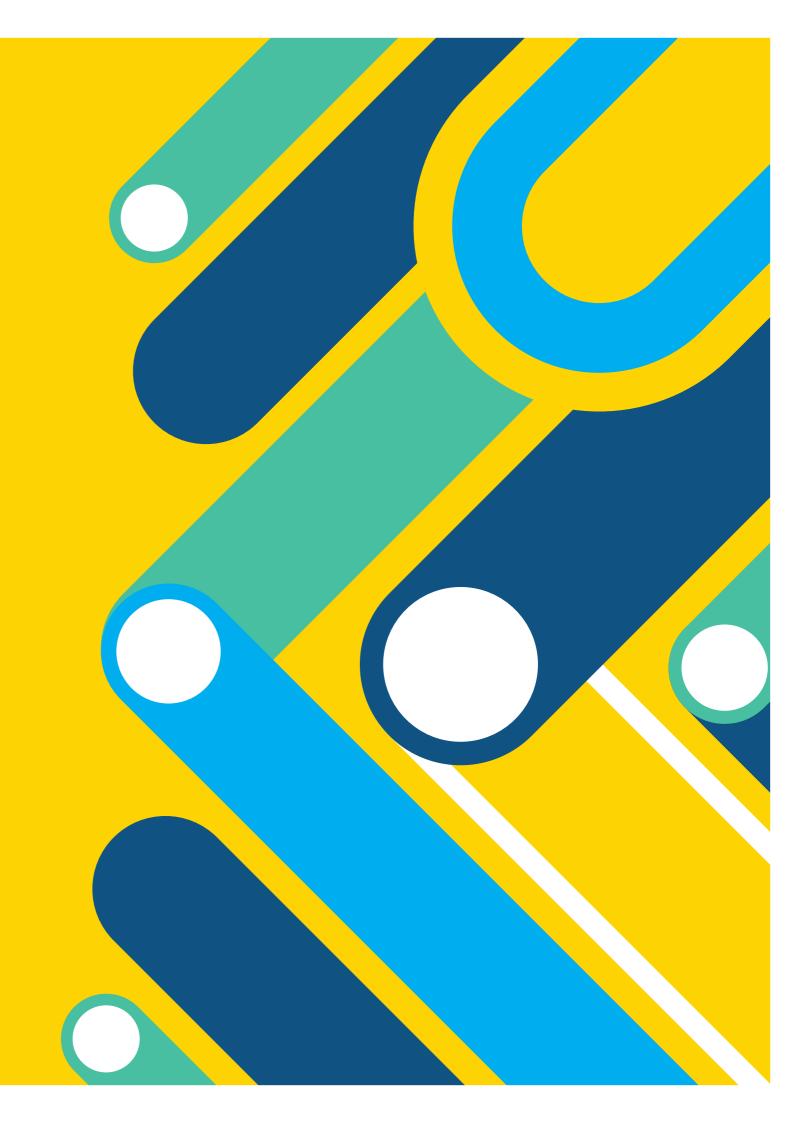


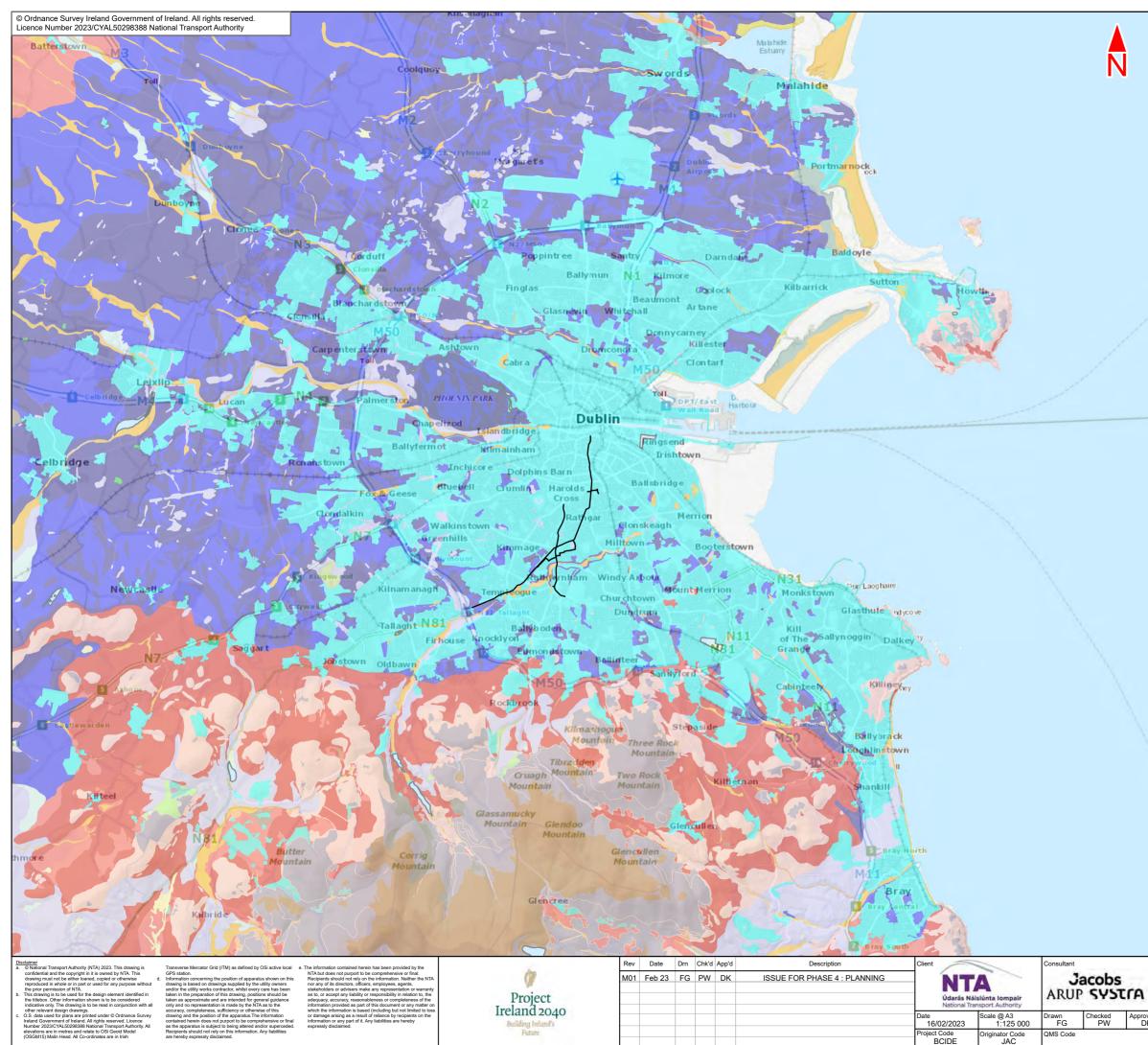




14.2 Regional Soils











Legend :

Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme

Teagasc Soils

AeoUND - Aeolian Undifferentiated
AlluvMIN - Mineral alluvium
AminDW - Acid Brown Earths / Brown Podzolics
AminPD - Surface

water Gleys / Ground water Gleys Acidic

AminPDPT - Peaty Gleys Acidic

AminSP - Surface water Gleys / Ground water Gleys Shallow

AminSRPT - Podzols Peatv

AminSW - Lithosols / Regosols

BktPt - Blanket peat

BminDW - Grey Brown Podzolics / Brown Earths Basic

water Gleys / Ground water Gleys Basic BminPDPT - Peaty Gleys Basic Parent Materials Basic BminSP - Surface water Gleys / Ground water Gleys Shallow BminSPPT - Peaty Gleys Shallow BminSRPT - Lithosols Peats BminSW - Renzinas / Lithosols Cut - Raised Bog cutaway/cutover

BminPD - Surface

FenPT - Fen peat

Lac

Made

MarSands

MarSed

Scree

Water

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Approved DK

Programme Title

Drawing Title

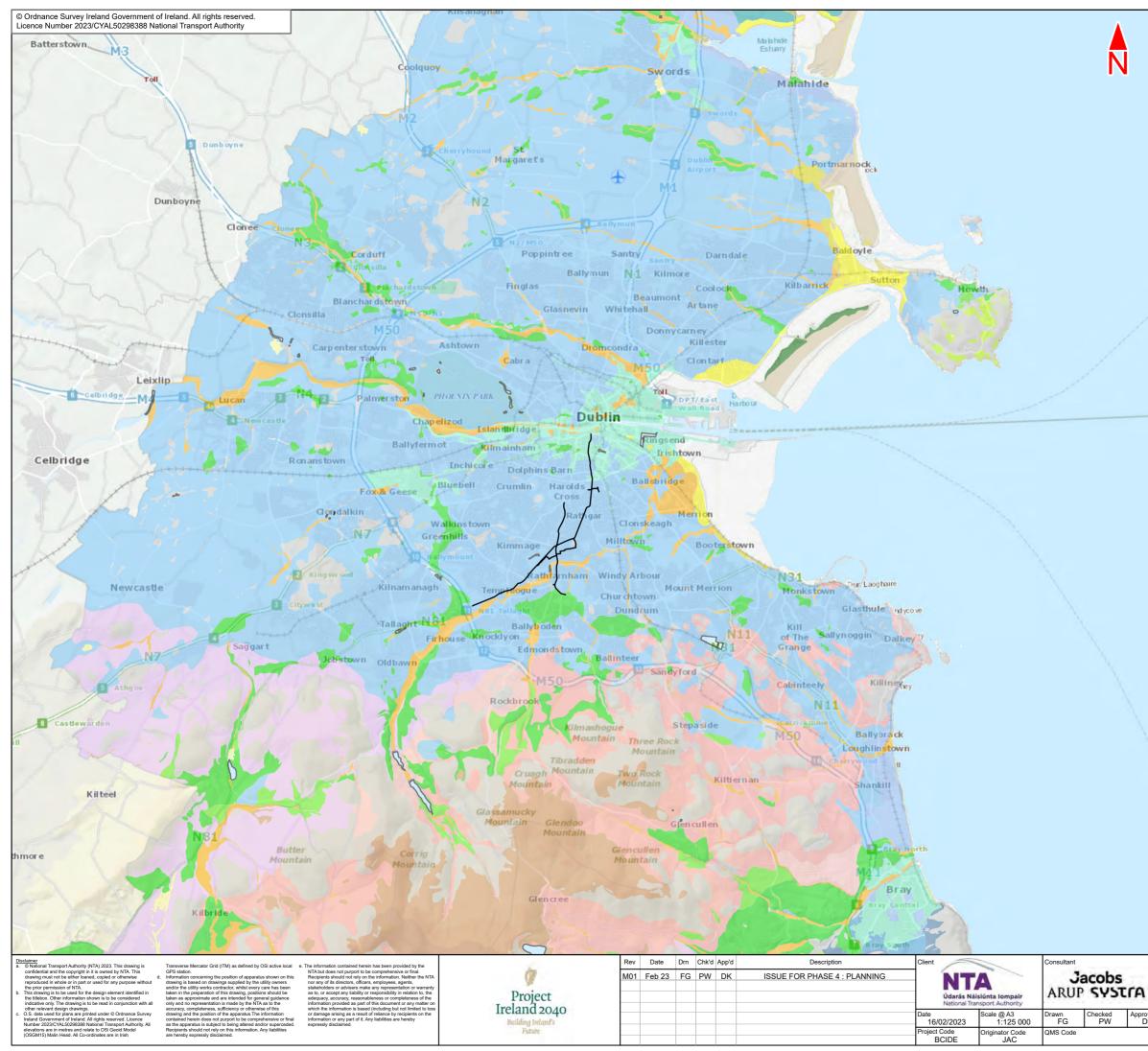
Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 14.2 Regional Soils

Drawing File Name	Sheet Number	Status	Rev
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14.3 Regional Subsoils









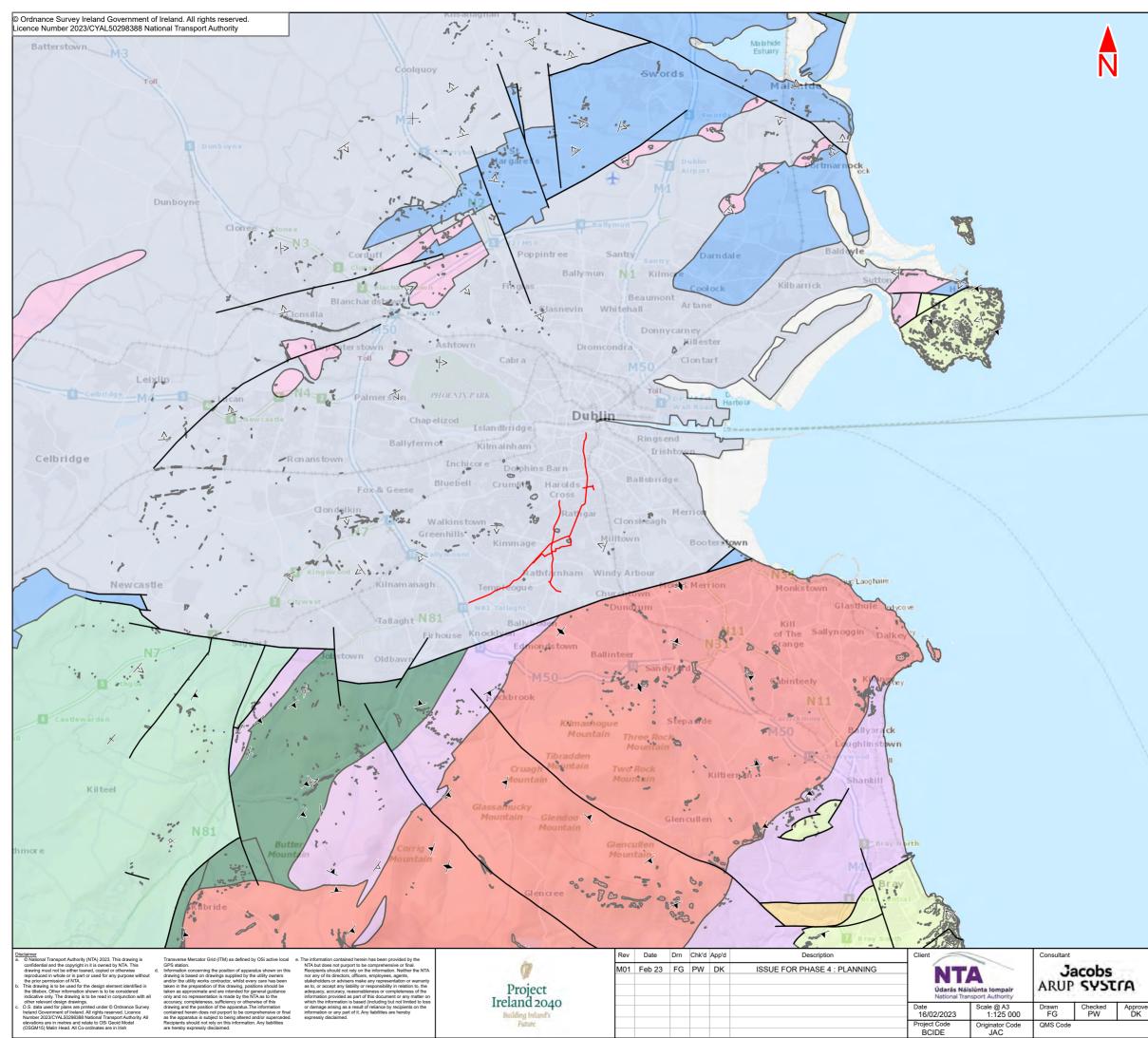


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14.4 Regional Bedrock







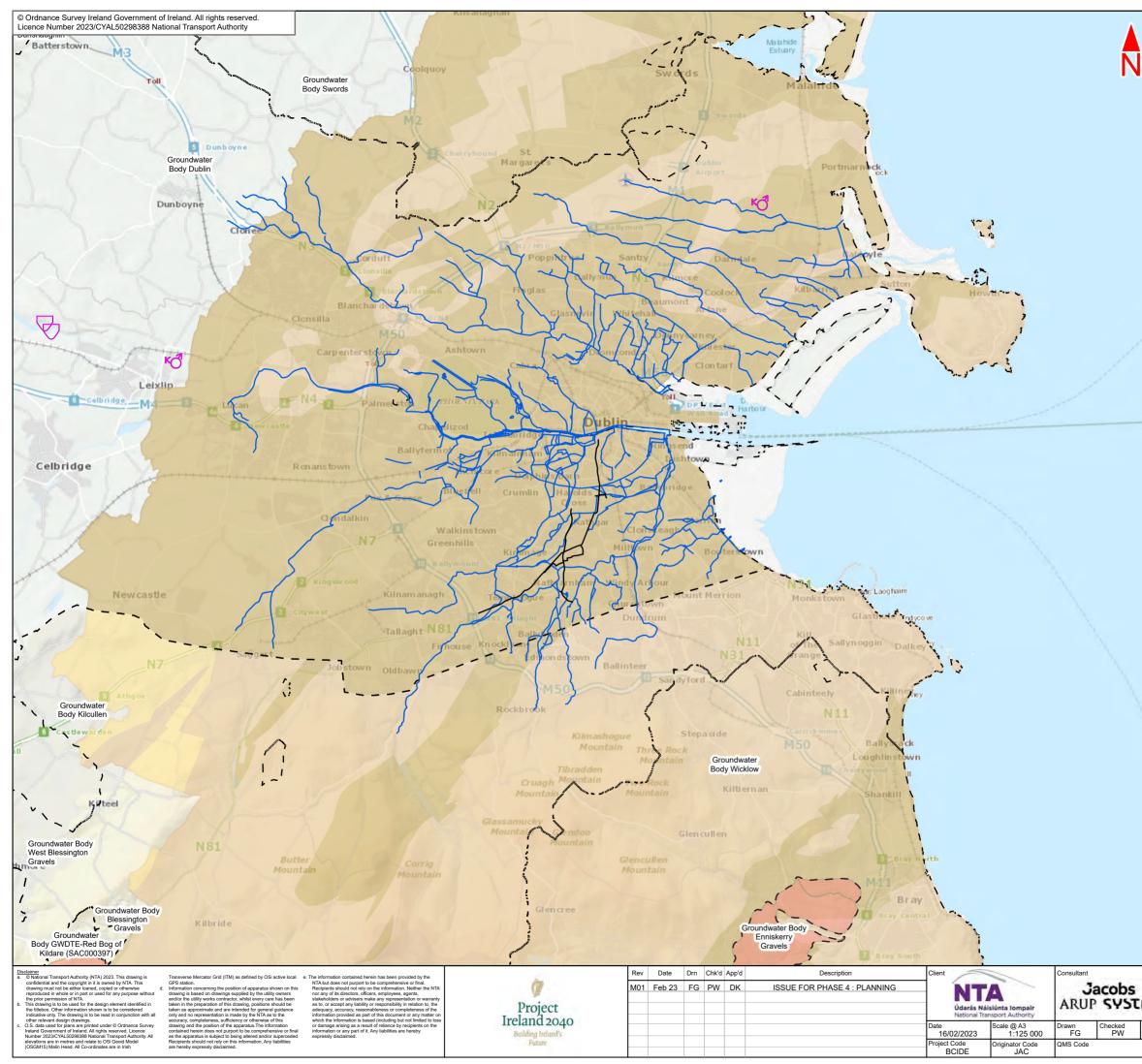
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	N3 N1 m nooth N4 Dublin elbridge 1 M50 N31 m M11 Bray						
2	Legend :						
	Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme						
	GSI Bedrock Geological Faults - 1:500,000						
	GSI Bedrock Structural Symbols - 1:100,000						
	First foliation parallel to bedding						
	Horizontal Bedding						
-	< Strike and dip of bedding, right way up						
	- Strike and dip of bedding, way up unknown						
	Strike and dip of first foliation						
	Strike and dip of overturned bedding						
	Strike and dip of second foliation						
	Strike of vertical first foliation						
	GSI Bedrock Outcrop - 1:100,000						
	GSI Bedrock Outcrop - 1:100,000						
	GSI Bedrock Geology - 1:500,000						
	Visean basinal limestone "Calp"						
	Waulsortian mudbank						
	Courceyan limestone						
	Up Dev-Lr Carb ORS						
	Caledonian granite						
	Silurian sandstone, g'wacke, shale						
	Mid-Up Ordovician basic volcanics						
	Lr-Mid Ordovician slate						
1	Lr-Mid Ordovocian acid volcanics						
	Lr-Mid Ordovician basic volcanics						
	Cambrian greywacke, sandst, qtzite						
	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. Contains Irish Public Sector Data licensed under a Creative Commons Attribution 4.0 International (CC BY 4.0) licence 0 1 2 3 4 5 km BAR SCALE						
	Programme Title BUSCONNECTS DUBLIN						
	CORE BUS CORRIDORS INFRASTRUCTURE WORKS						
	Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme						
d	Figure 14.4 Regional Bedrock						
	Drawing File Name Sheet Number Status Rev BCIDE-JAC-ENV_GT-1012_XX_00-DR-GG-0004 1 of 1 A M01						

14.5 Regional Aquifers





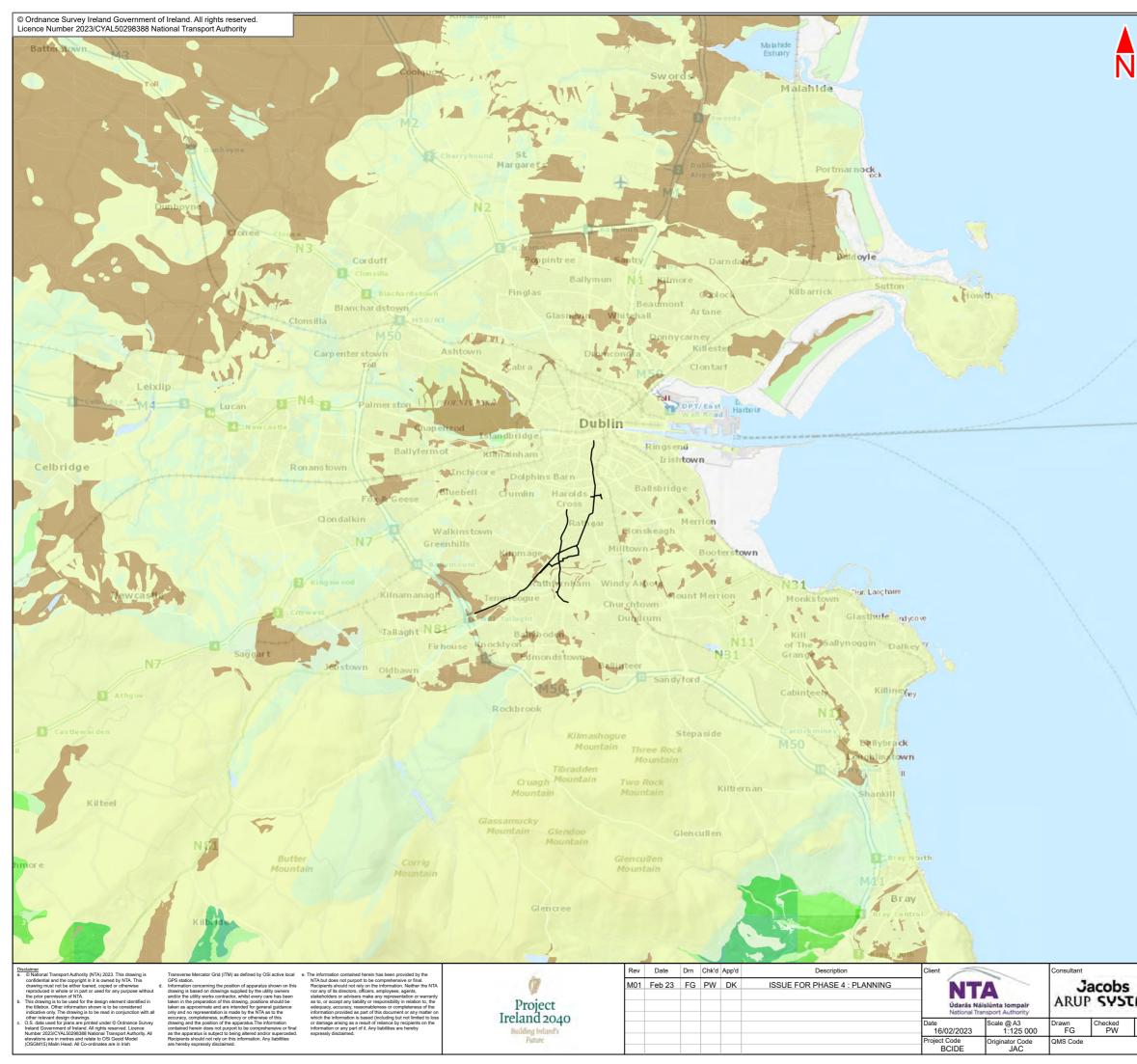


	M2 Swords N3 N1 m Dublin 1 M50 N31 Dan share M50 N31 Dan share M11 Bray			
1	Legend :			
1	Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme			
/	Rivers Of Dublin			
	GSI Sand And Gravel Aquifers			
	Groundwater Bodies - Water Framework Directive			
	GSI Karst			
	CAVE			
	GSI Bedrock Aquifer Locally Important Aquifer - Bedrock which is			
	Moderately Productive only in Local Zones (LI) Locally Important Aquifer - Bedrock which is Generally			
	Moderately Productive (Lm)			
	Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)			
	Poor Aquifer - Bedrock which is Generally Unproductive (Pu)			
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re l	CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
200 Pro-	Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 14.5 Pergional Aquifers			
Approved DK	Regional Aquifers Drawing File Name Sheet Number Status Rev			
	BCIDE-JAC-ENV_GT-1012_XX_00-DR-GG-0005 1 of 1 A M01			

14.6 Regional Groundwater Recharge











Legend :

Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme

GSI Groundwater Recharge

Annual Recharge (mm)				
	601-700 mm			
	551-600 mm			
	501-550 mm			
	451-500 mm			
	401-450 mm			
	351-400 mm			
	301-350 mm			
	251-300 mm			
	201-250 mm			
	151-200 mm			
	101-150 mm			
	51-100 mm			
	1-50 mm			

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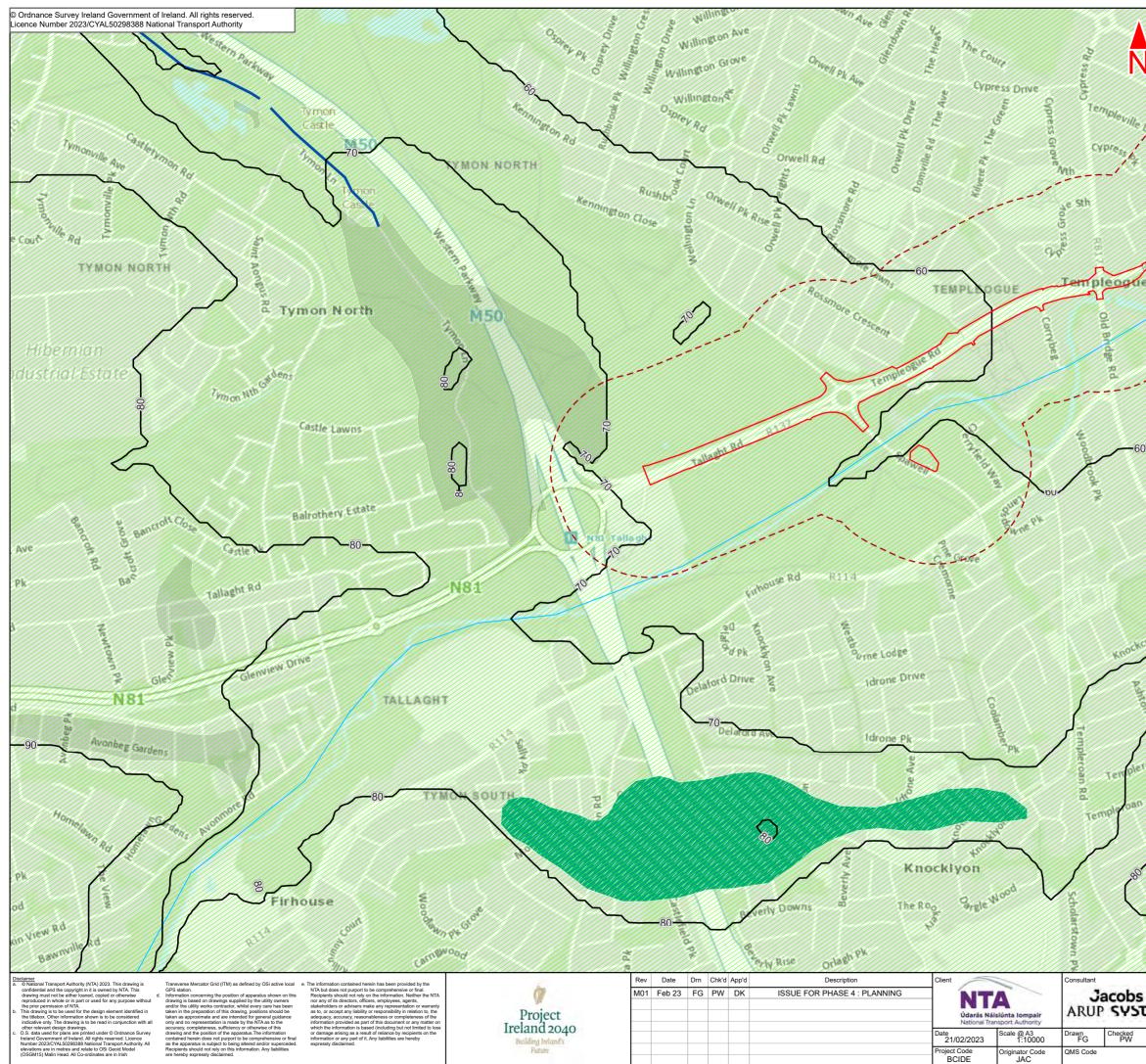
Drawing Title
Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
Figure 14.6
Regional Groundwater Recharge

Drawing File Name	Sheet Number	Status	Rev
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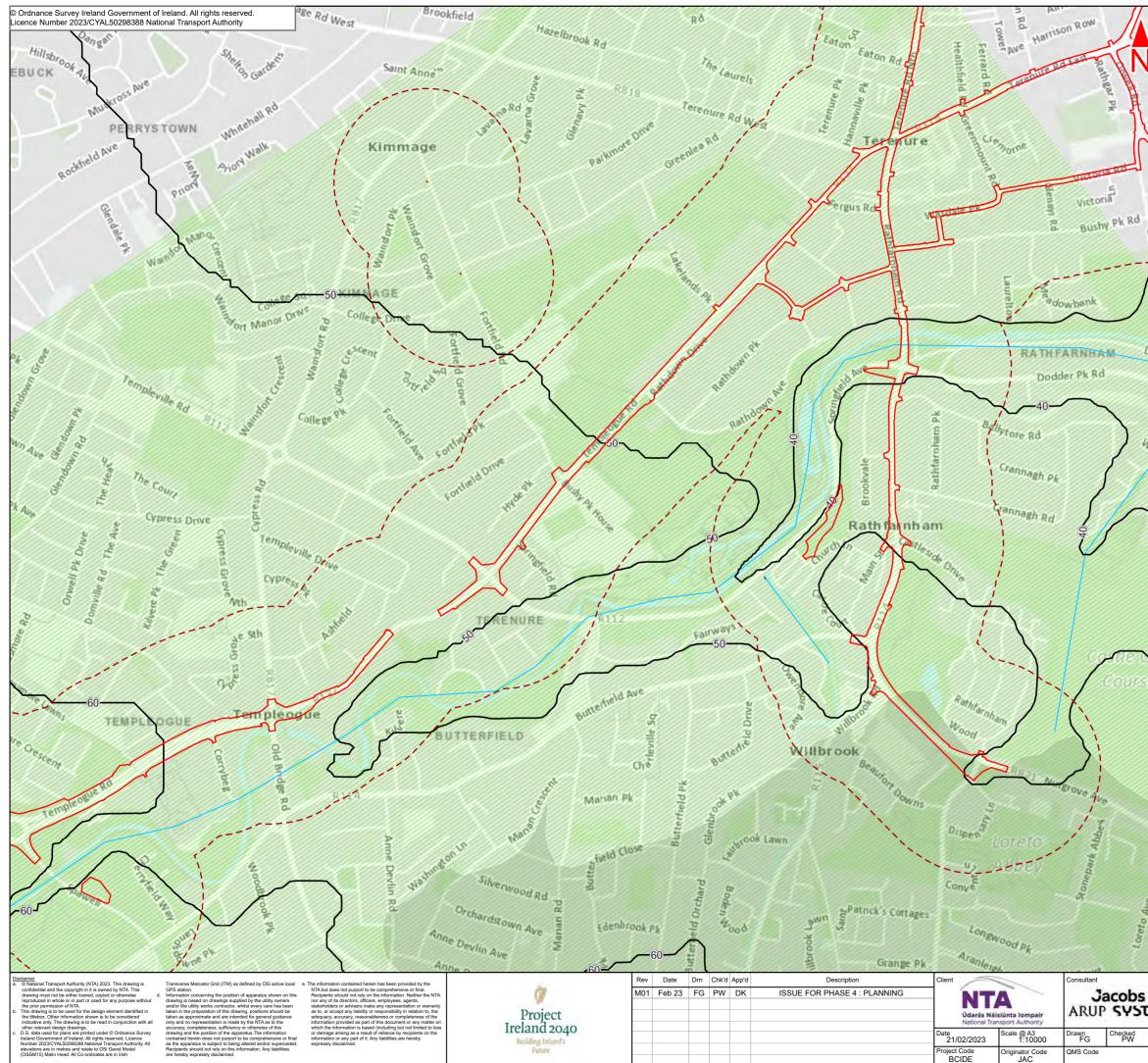
14.7 Topography and Geomorphology



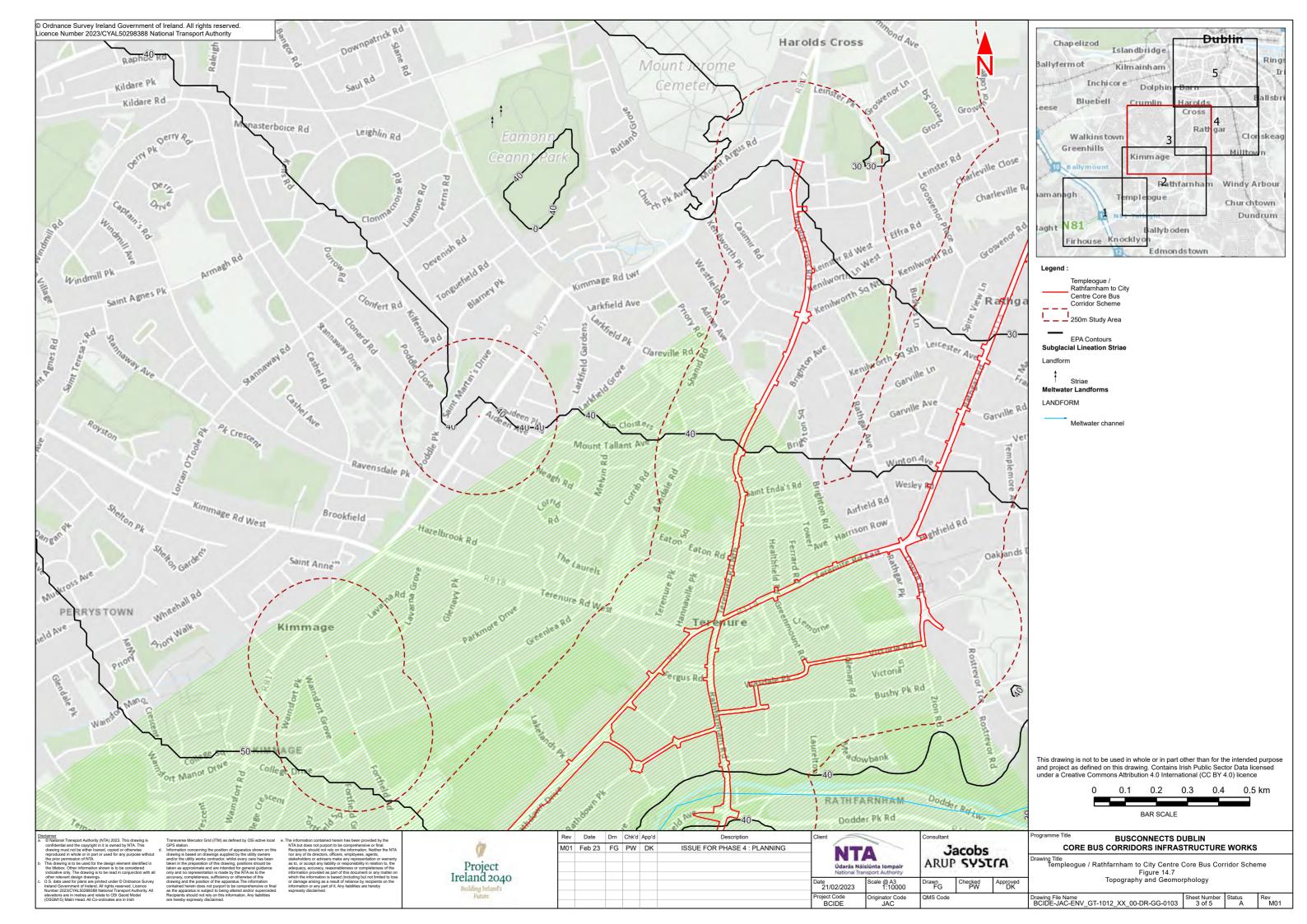


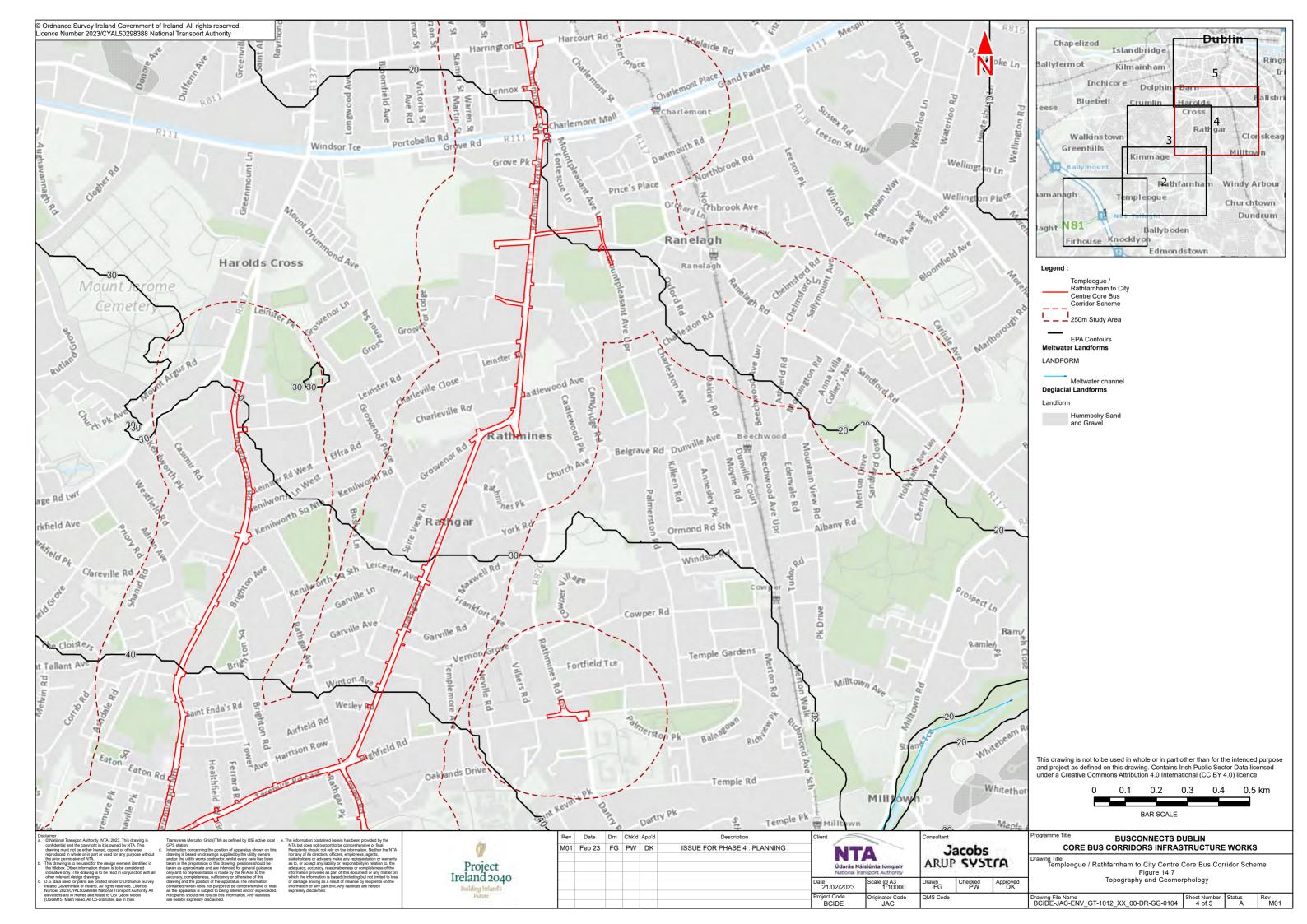


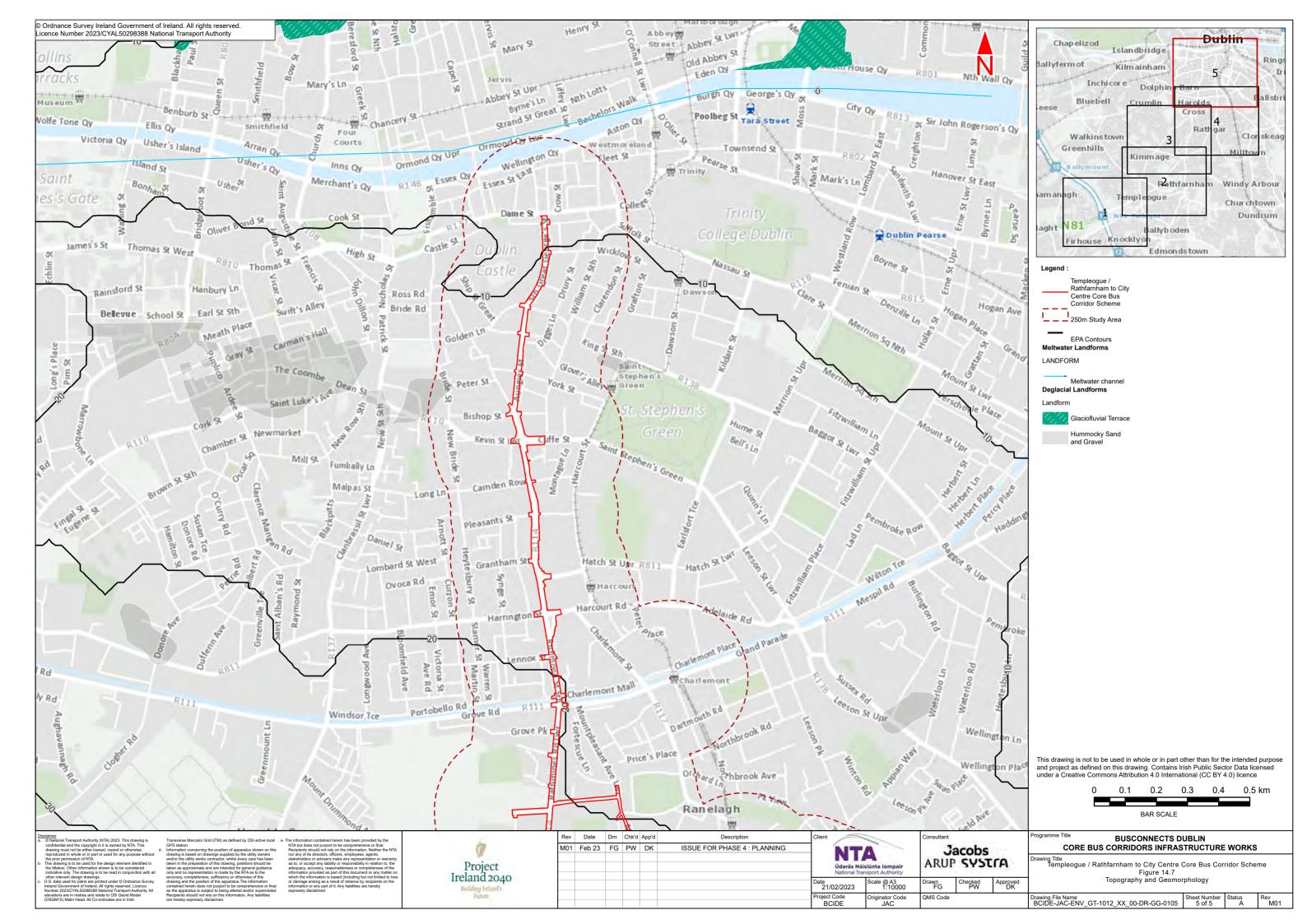
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0 Ve	June To Cal	Cross 4 Rathgai	T.	S-
	Walkinstown 3 Greenhills		Clo	skeag
	Kimmage		Milltov	n l
AST		farnham	Windy A	rbour
	hamanagh Templeogue	in .	Churcht	and the second second
Ŋ	laght N81 Ballybod	en	Dune	irum
	Firhouse Knocklyon Edmon			
	Legend :	13 (0)111		
Z	Templeogue / Rathfarnham to City			
×50-	Centre Core Bus Corridor Scheme			
	250m Study Area			
	EPA Contours Meltwater Landforms			
	LANDFORM			
	Esker ridge			
Y	Meltwater channel Deglacial Landforms			
8	Landform			
6	Glaciofluvial Terrace Hummocky Sand			
X	and Gravel			
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roan Ave				
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ICA	CORE BUS CORRIDORS INFRA: Drawing Title Templeogue / Rathfarnham to City Centre			
Approved	Figure 14.7 Figure 14.7 Topography and Geomo		nuor ocne	
DK	Drawing File Name BCIDE-JAC-ENV_GT-1012_XX_00-DR-GG-0101	Sheet Number 1 of 5	Status A	Rev M01



hfield Rd	Chapelizod	Dublin
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Y	eese Bluebell Crumlin	Harolds Ballsbri
	whether the state	Cross 4 Rattigar
	Walkinstown 3	Clonskeag
	Greenhills Kimmage	Milltown
4	10 Ballymount	hfarnham Windy Arbour
Į.	iamanagh Templeogue	Churchtown
Zion Rt	Nos Tallaghe	Dundrum
RH	aght N81 Firhouse Knocklyon	oden
\cap	THINGSON T	ondstown
	Legend :	
	Templeogue / Rathfarnham to City Centre Core Bus	
Dodda	Corridor Scheme	
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	Drawing File Name BCIDE-JAC-ENV_GT-1012_XX_00-DR-GG-01	02 Sheet Number Status Rev 2 of 5 A M01

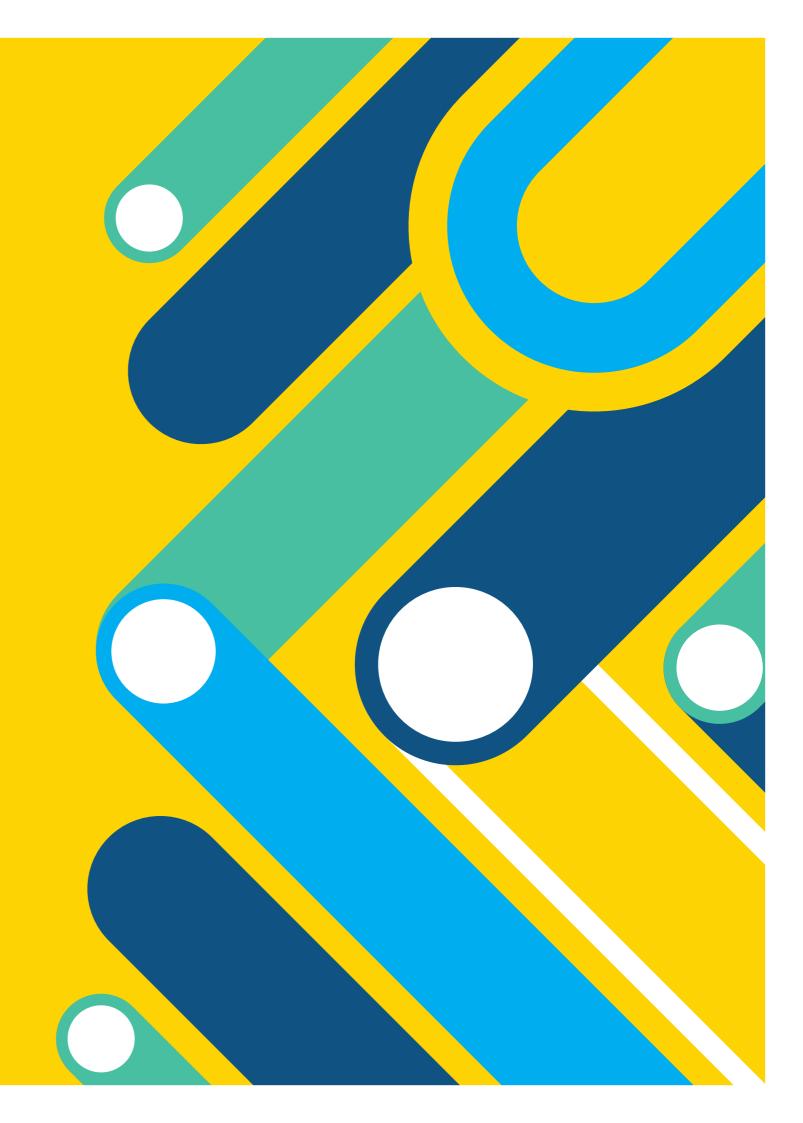


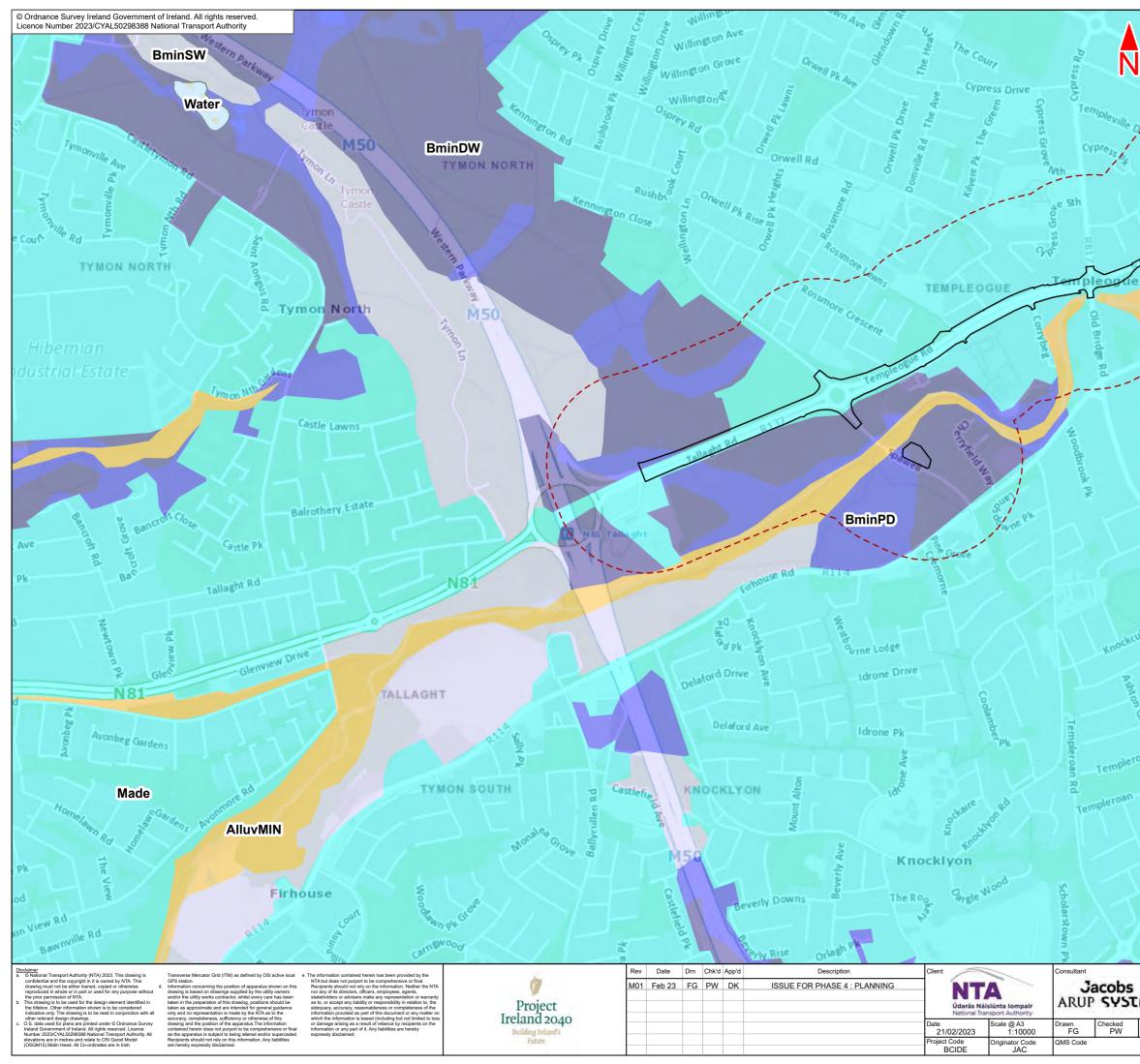




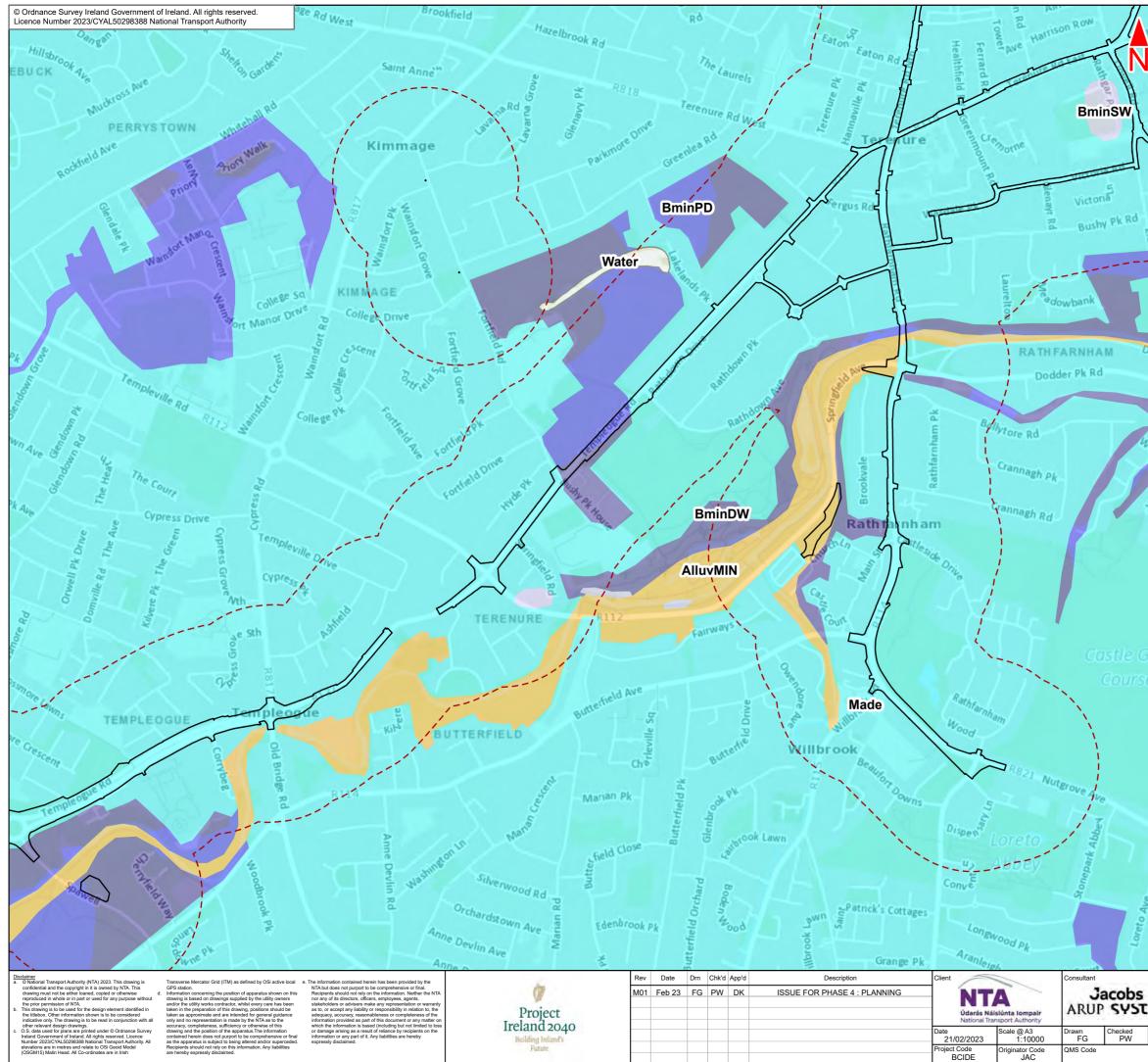
14.8 Soil Deposits



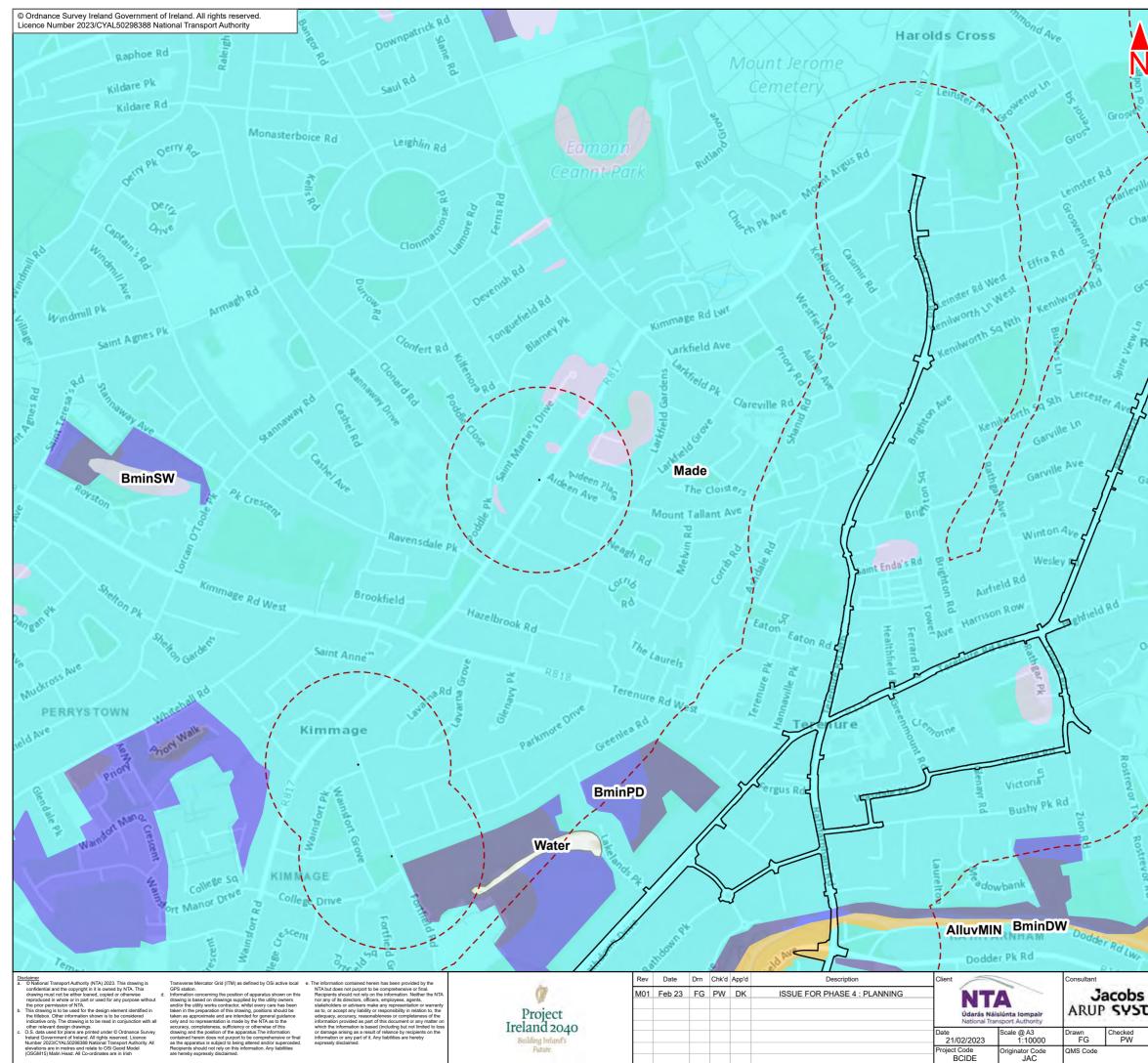




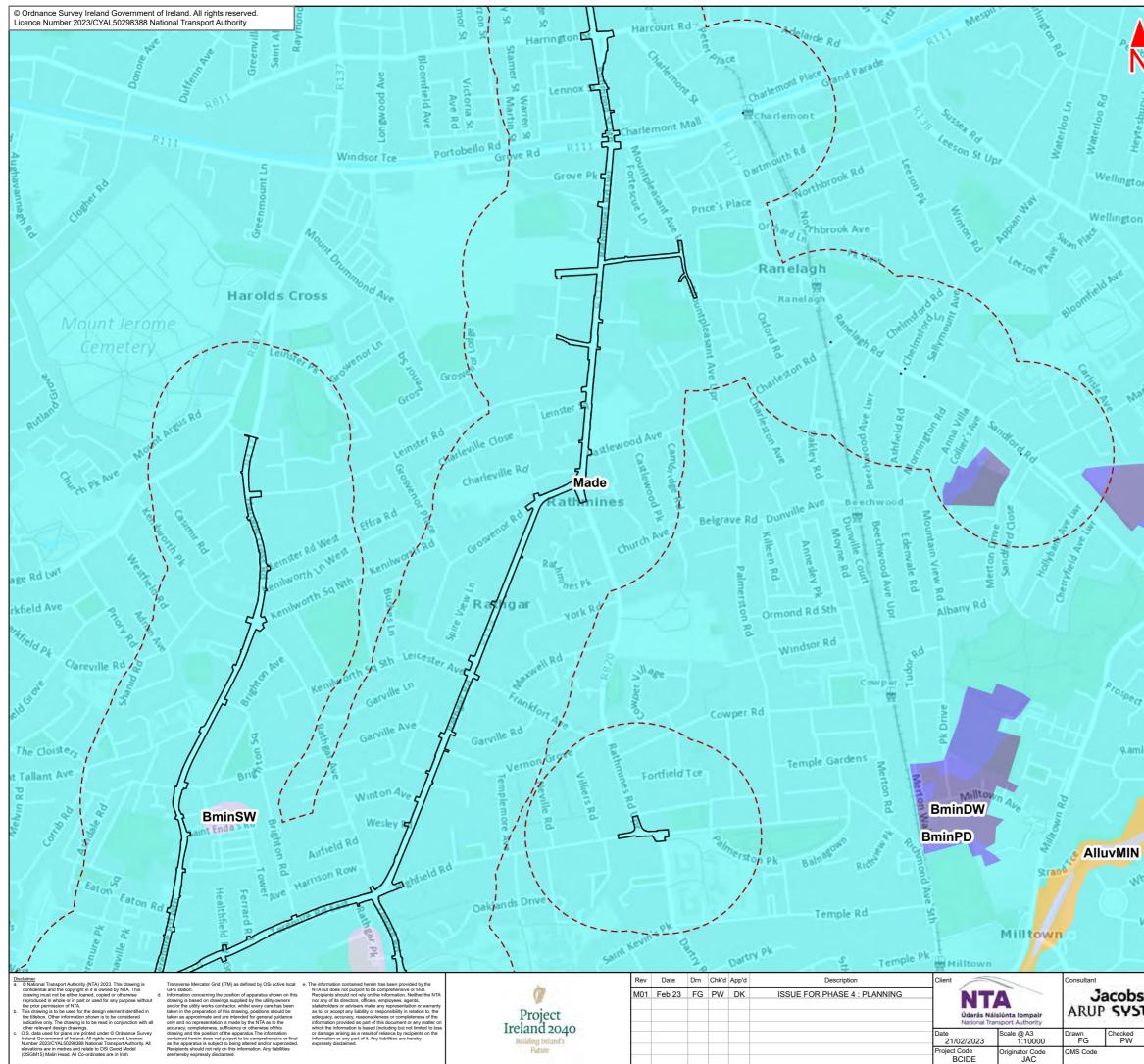
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	Islandbridge.
	Kilmainham 5
\sim	Inchicore Dolphin <mark>r Barn</mark> Bluebell Crumlin Harolds Ballsbri
1-	eese Crumin Harolds Cross
Drive	Walkinstown 3 Rathgar Cloriskeag
	Greenhills
No.	Kimmage Pillican
Astri	Pathfarnham Windy Arbour
	ham an agh Templeogu e Chur chtown
	laght N81 Ballyhoden
	Firhouse Knocklyon
~	Edmondstown
	Legend : Templeogue / Rathfarnham to City Centre Core Bus
	Corridor Scheme
	Teagasc Soils
1	AlluvMIN - Mineral alluvium
-	BminDW - Grey Brown Podzolics / Brown Earths Basic
	BminPD - Surface water Gleys / Ground water Gleys
Y	Basic BminSW - Renzinas / Lithosols
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A	Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 14.8
Approved DK	Soil Deposits
	Drawing File Name Sheet Number Status Rev



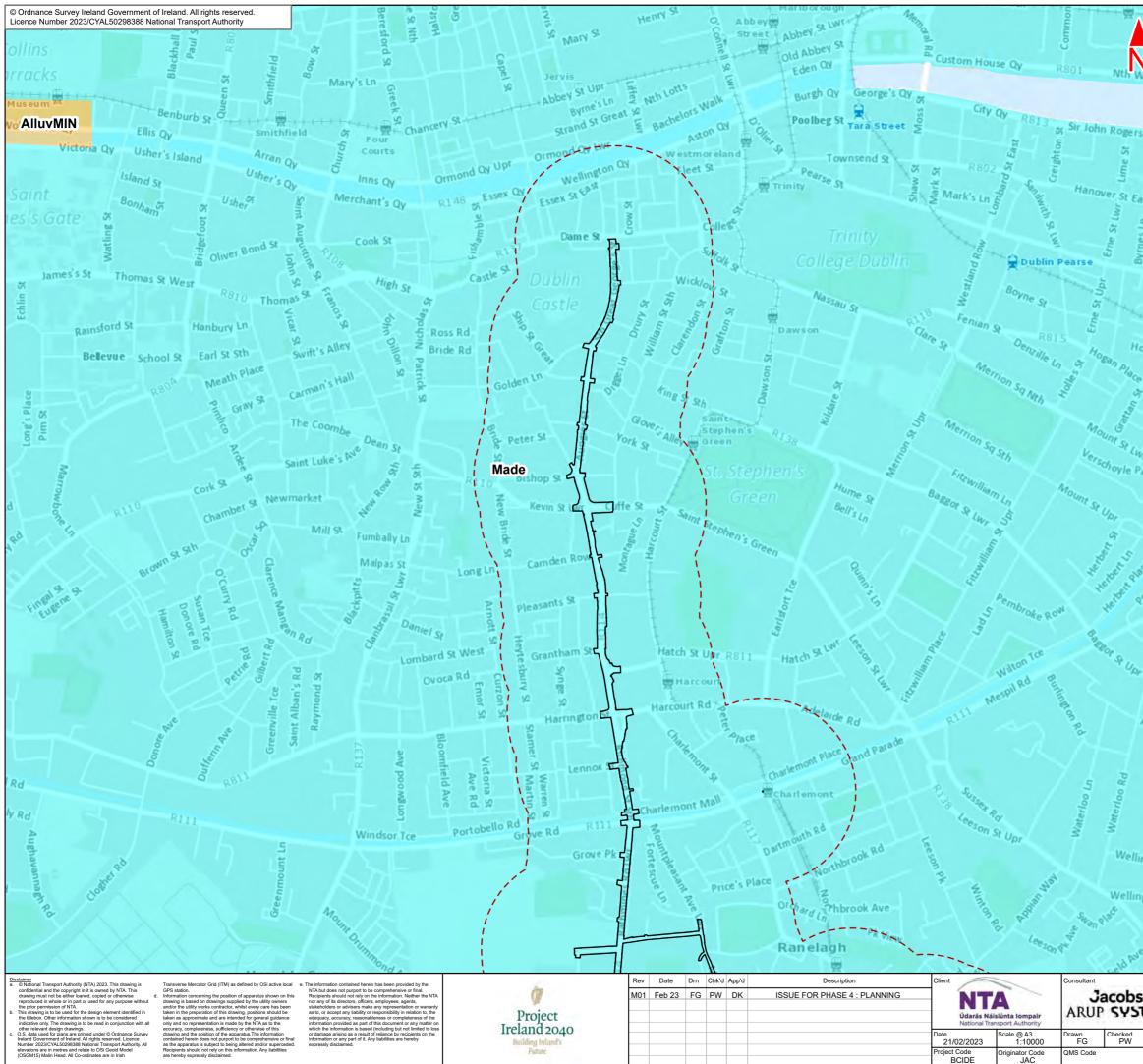
Hield Rd	Chapelizod Islandbridge Ballyfermot Kilmainham 5 Iri Inchicor e Dolphin Barn Bluebell Crumlin Harolds Eallsbri Greenhills Kimmage Clorskeag Greenhills Kimmage Milltown amanagh Flathfarnham Windy Arbour Chur chtown Dundrum Ballyboden Firhouse Knocklyon
Dodder Ro R11 Loodside Juoodside C	Legend :
Golf Te	
Loreto Cresce	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. Contains Irish Public Sector Data licensed under a Creative Commons Attribution 4.0 International (CC BY 4.0) licence 0 0.1 0.2 0.3 0.4 0.5 km BAR SCALE
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Approved DK	Figure 14.8 Soil Deposits
	Drawing File Name Sheet Number Status Rev BCIDE-JAC-ENV GT-1012 XX 00-DR-GG-0202 2 of 5 A M01



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	R ² athfarnham Windy Arbour
arleville Ra	amanagh Templeogue Churchtown
	Dundrum
orRd	laght N81 Ballyboden
osvenor Rd	Firhouse Knocklyon Edmondstown
//	Legend :
	Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
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	Teagasc Soils
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<u>,</u>	BminDW - Grey Brown Podzolics / Brown Earths Basic
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Approved DK	Soil Deposits
	Drawing File Name Sheet Number Status Rev BCIDE-JAC-ENV_GT-1012_XX_00-DR-GG-0203 3 of 5 A M01



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V Ln	Inchicore Dolphin Barn Bluebell Crumlin Harolds Ballsbri
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1	Reathfarnham Windy Arbour
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	Firhouse Knocklyon Edmondstown
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More	Templeogue / Rathfarnham to City Centre Core Bus
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alborot	AlluvMIN - Mineral alluvium
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5	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
AIT	Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 14.8
Approved DK	Soil Deposits
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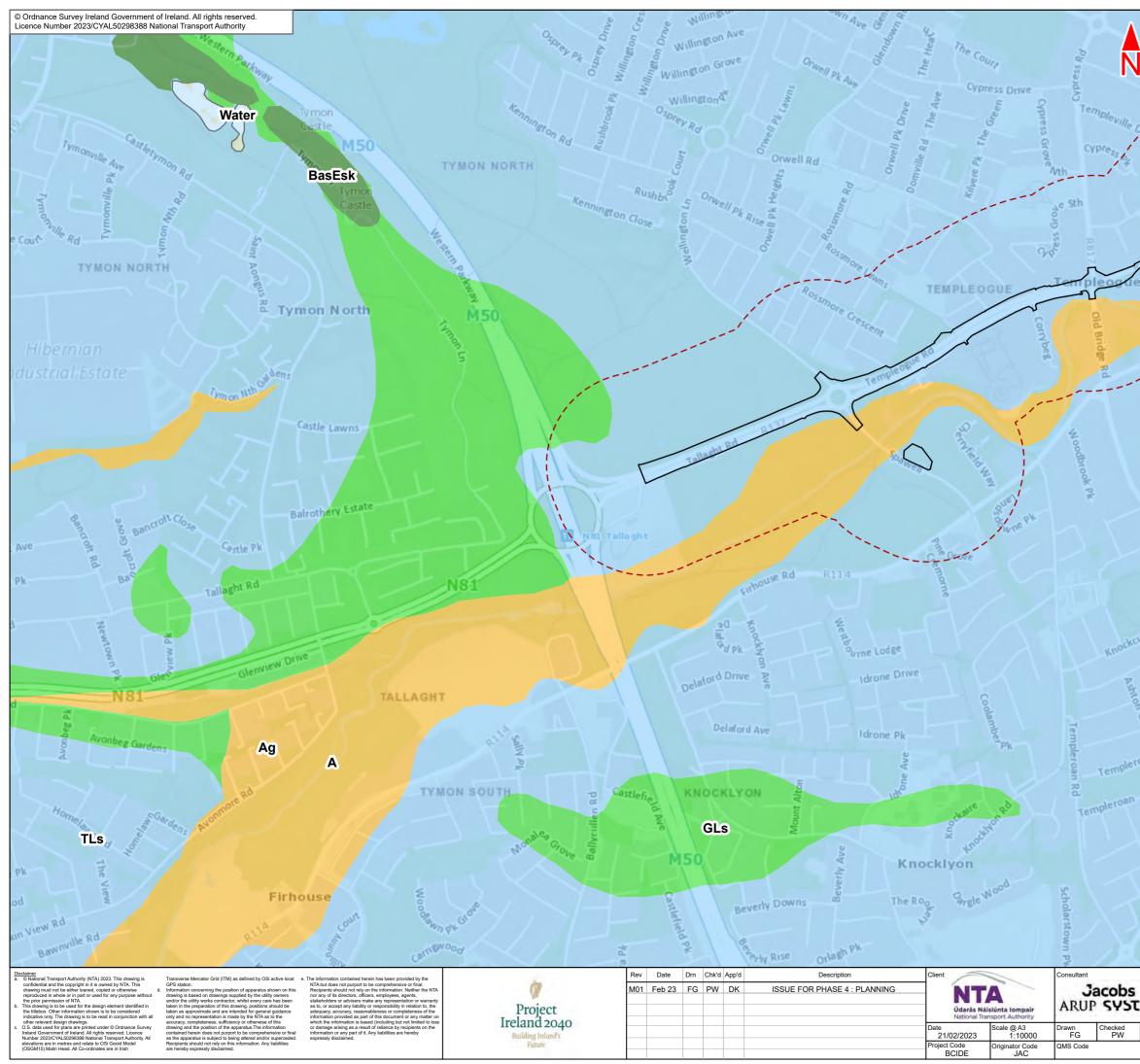


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	eese Bluebell <u>Crumlin Harolds</u> Ballsbri Cross
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Ist	Pathfarnham Windy Arbour
	iamanagh Templepque
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gearse Sq	laght N81 Ballyboden
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0	Legend :
Actor	Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
N	250m Study Area
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	CORE BUS CORRIDORS INFRASTRUCTURE WORKS
LLU	Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 14.8
Approved DK	Soil Deposits
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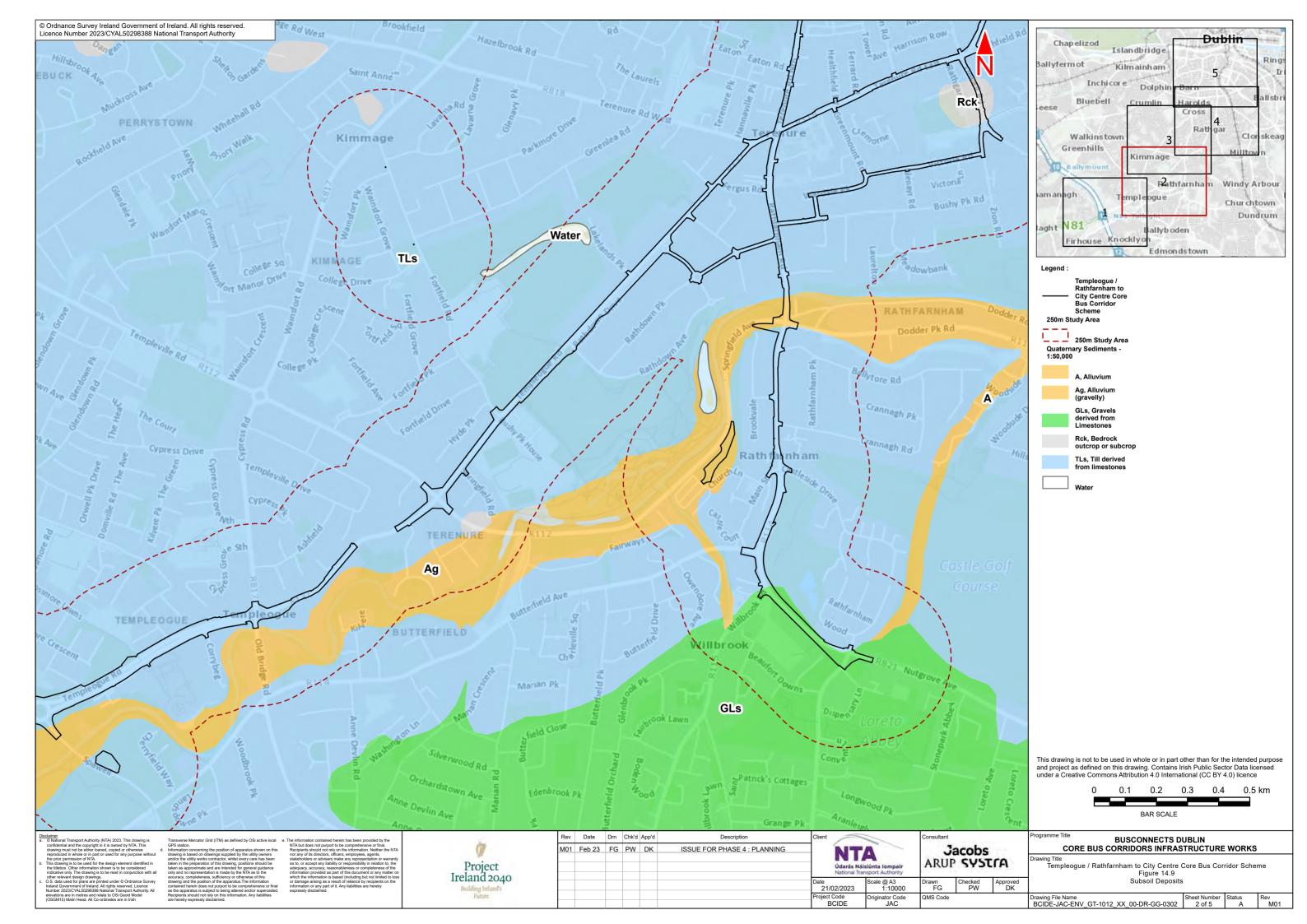
14.9 Subsoil Deposits

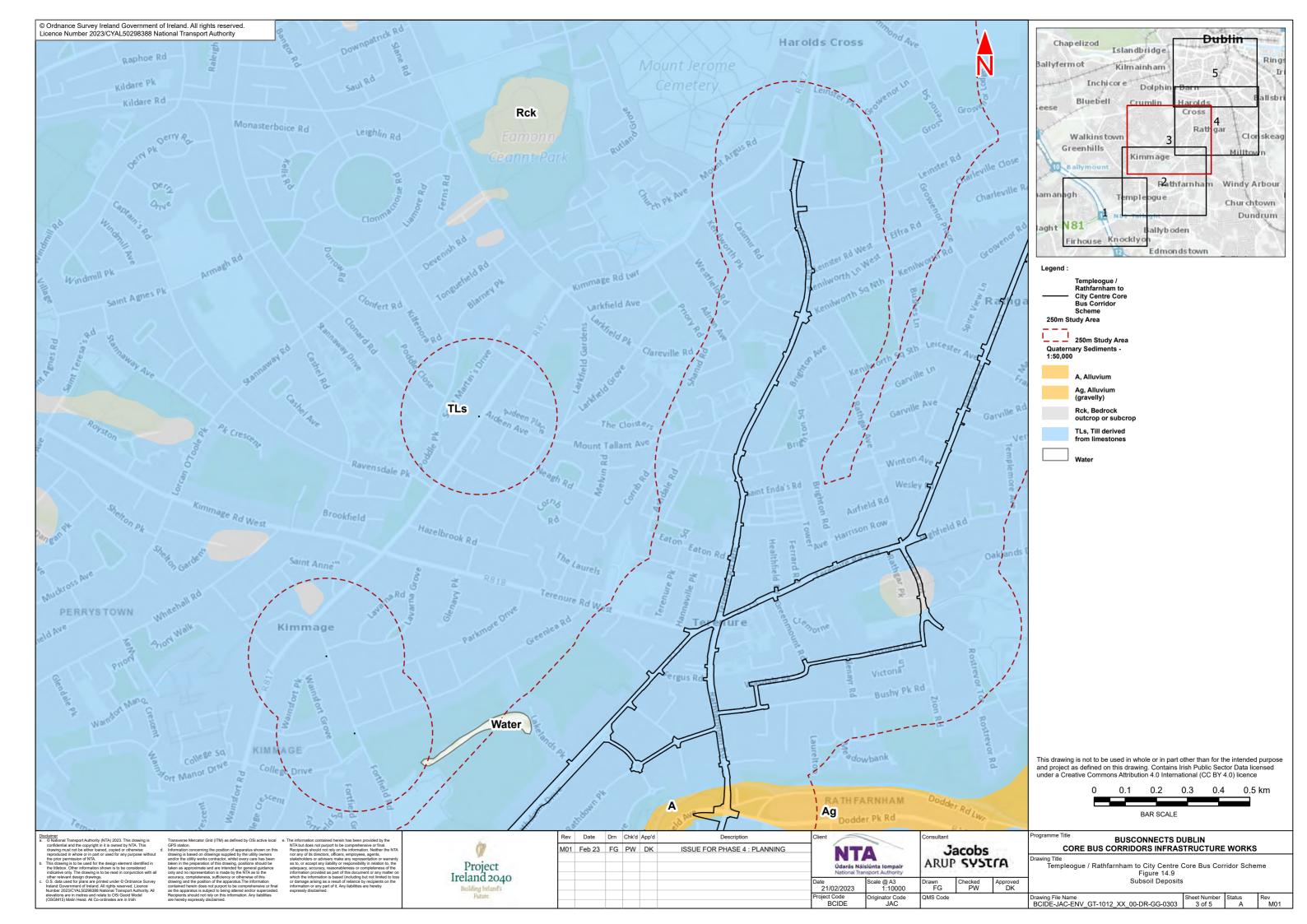


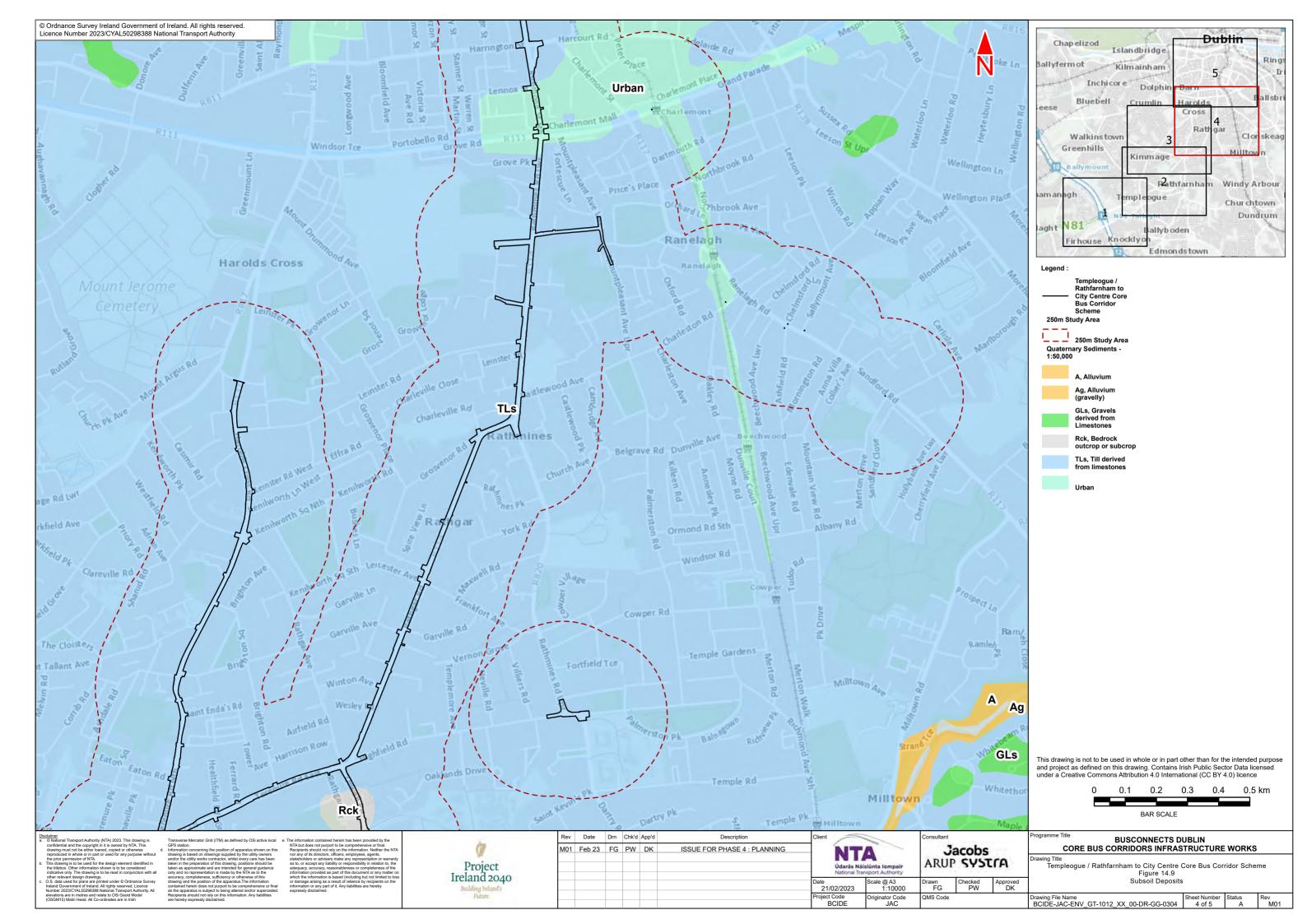


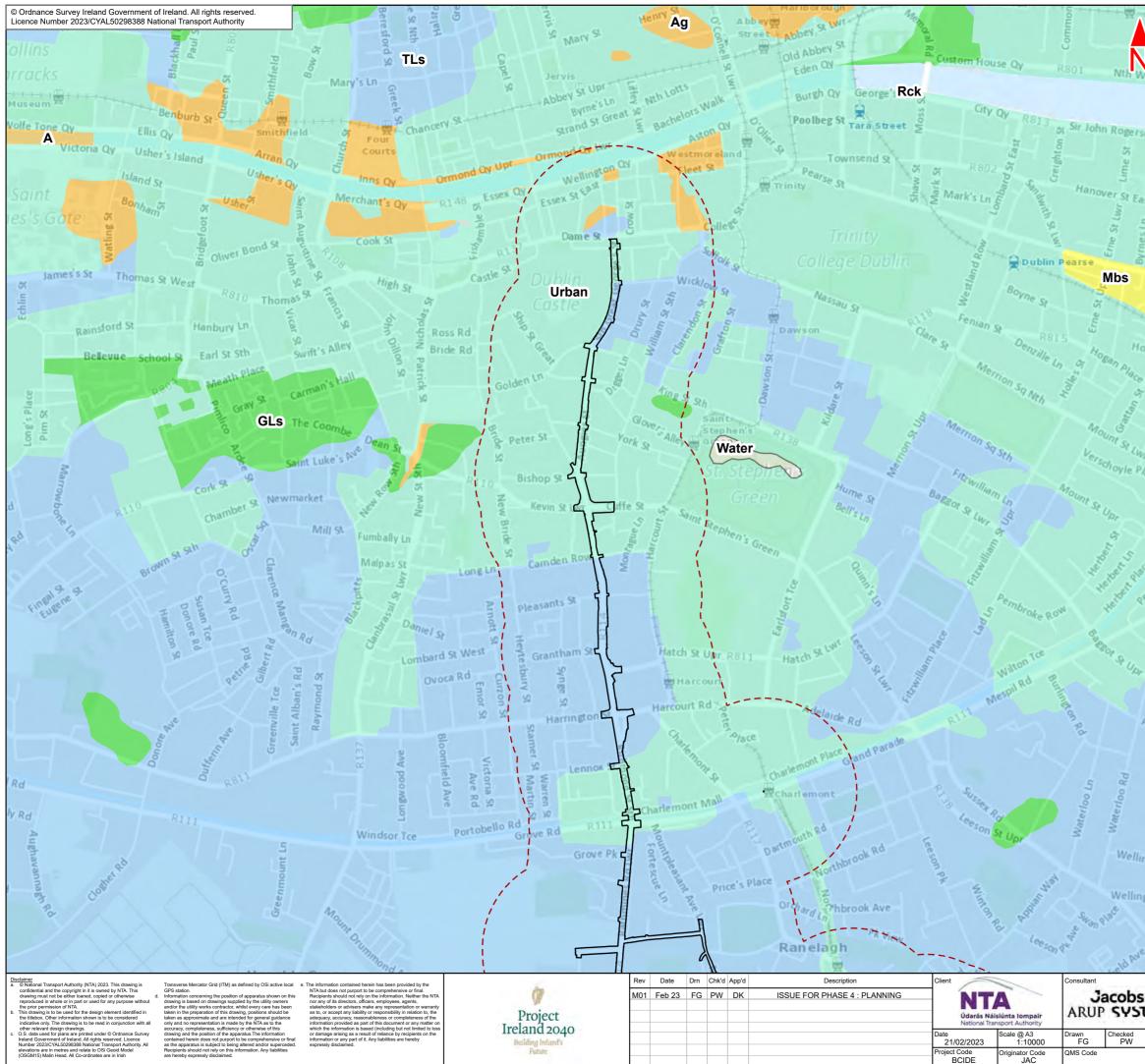


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	Islandbridge Ballyfermot Kilmainham 5 Iri
	Inchicore Dolphin Barn
	eese Cross
Orive	Walkinstown 3 Rattigar Clorskeag
	Greenhills Kimmage Milltown
Astheld	Pathfarnham Windy Arbour
Pa	Rathfarnham Windy Arbour Iamanagh Templeogue Churchtown
	Net Tallight Dundrum
	laght N81 Ballyboden Firhouse Knocklyon
e	Edmondstown
	Legend : Templeogue /
	Rathfarnham to ————————————————————————————————————
	Scheme 250m Study Area
1	 250m Study Area
	Quaternary Sediments - 1:50,000
	A, Alluvium
	Ag, Alluvium (gravelly)
	GLs, Gravels derived from Limestones
	TLs, Till derived from limestones
	Water
	BasEsk, Eskers comprised of
	gravels of basic reaction
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CCA	CORE BUS CORRIDORS INFRASTRUCTURE WORKS Drawing Title
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DK	Drawing File Name Sheet Number Status Rev BCIDE-JAC-ENV_GT-1012_XX_00-DR-GG-0301 1 of 5 A M01







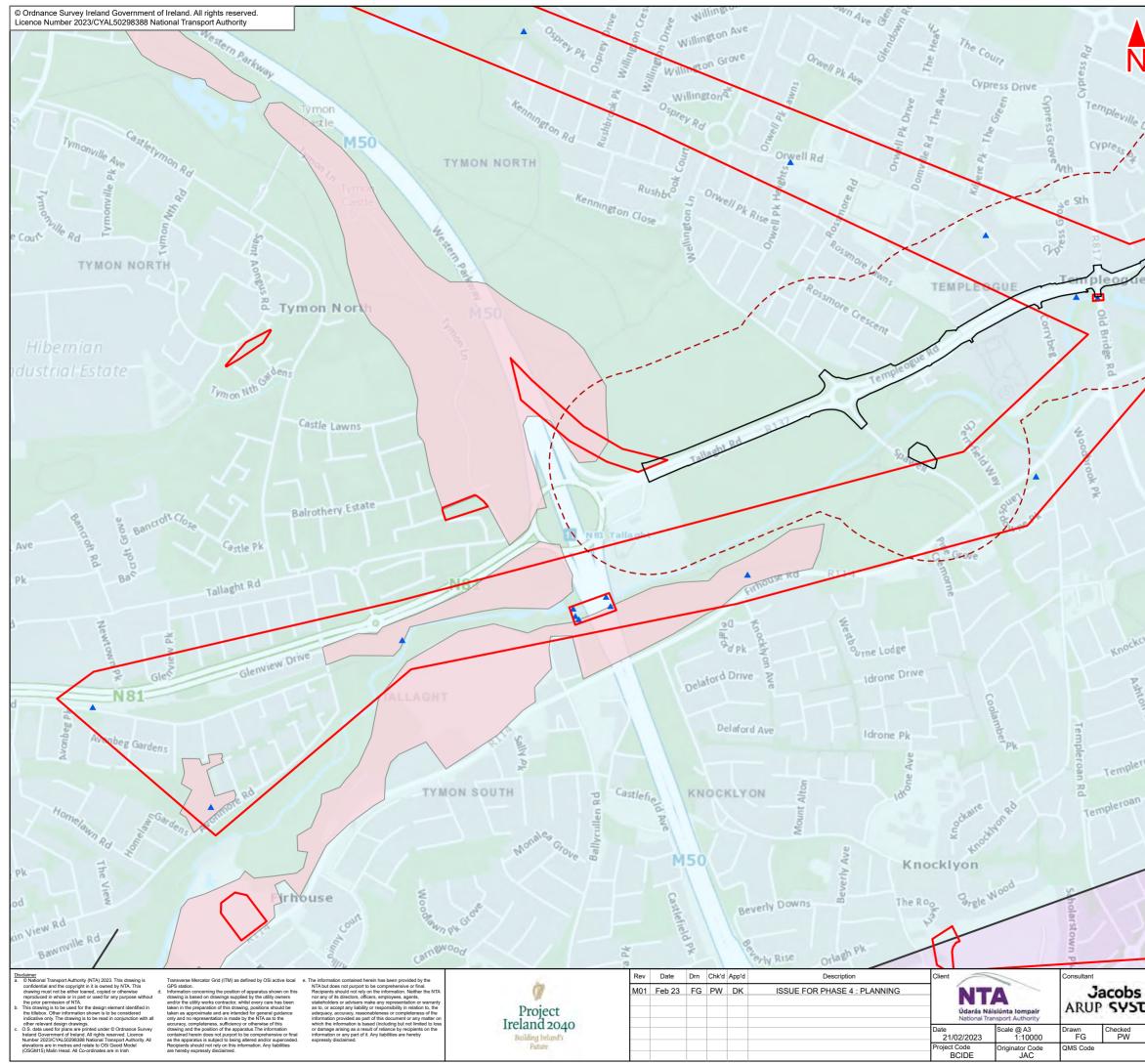


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	eese Bluebell Crumlin Harolds Ballsbri
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A carse	Templeogue Churchtown
gearse Sq	laght N81 Ballyboden
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0	Edmondstown
ken	Legend : Templeogue /
Ma	Rathfarnham to ————————————————————————————————————
ogan Ave	Bus Corridor Scheme 250m Study Area
211	[^]
Grand	250m Study Area Quaternary Sediments -
pa	1:50,000
7 1	A, Alluvium Ag, Alluvium
r	(gravelly)
lace ?	GLs, Gravels derived from Limestones
5	Rck, Bedrock
1 4	outcrop or subcrop Mbs, Marine beach
~ 0	sands
8 8	TLs, Till derived from limestones
de a	Urban
Hadding	Water
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	Programme Title
	BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS
Tra	Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
Approved DK	Figure 14.9 Subsoil Deposits
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14.10 Bedrock Geology

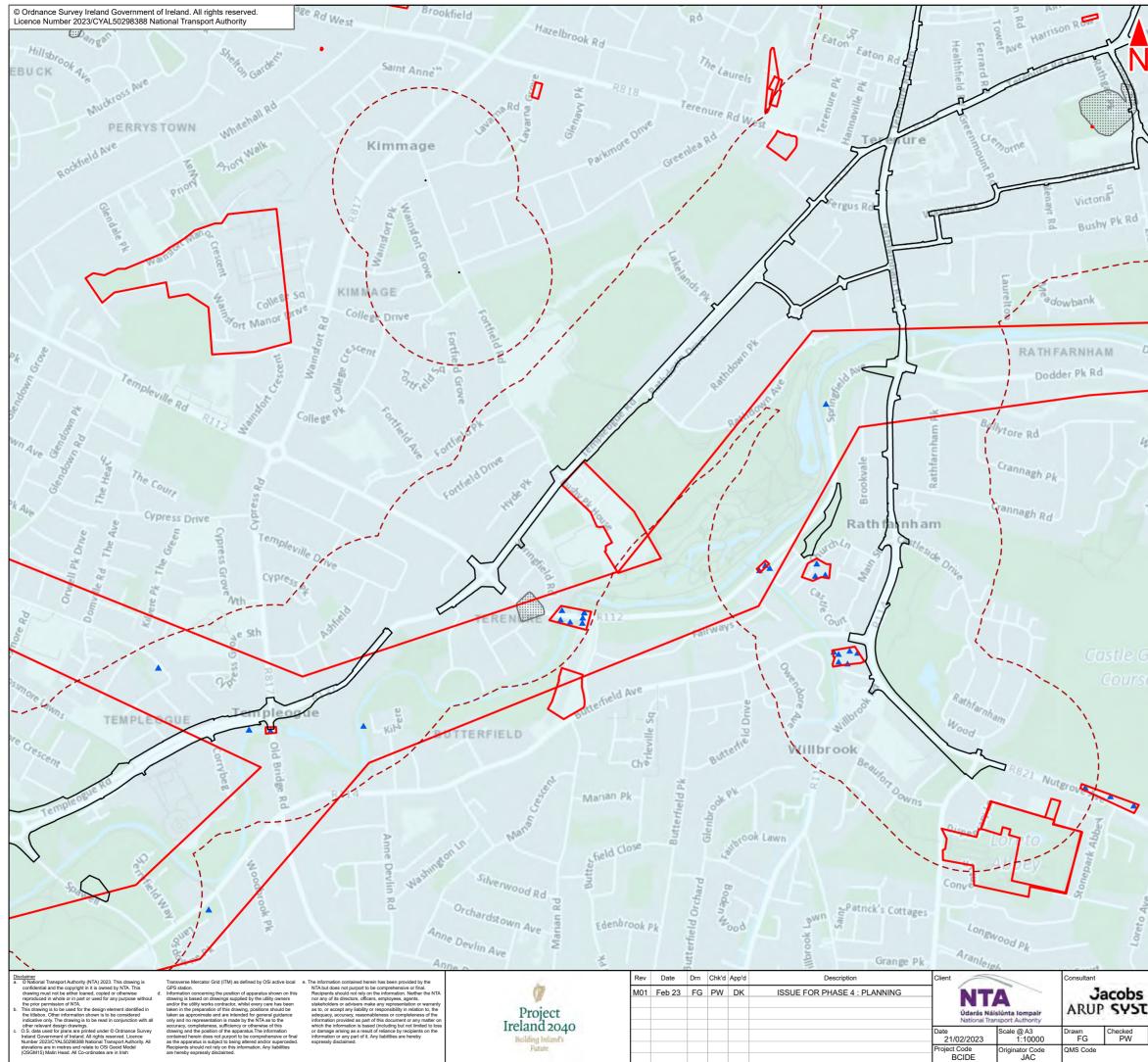




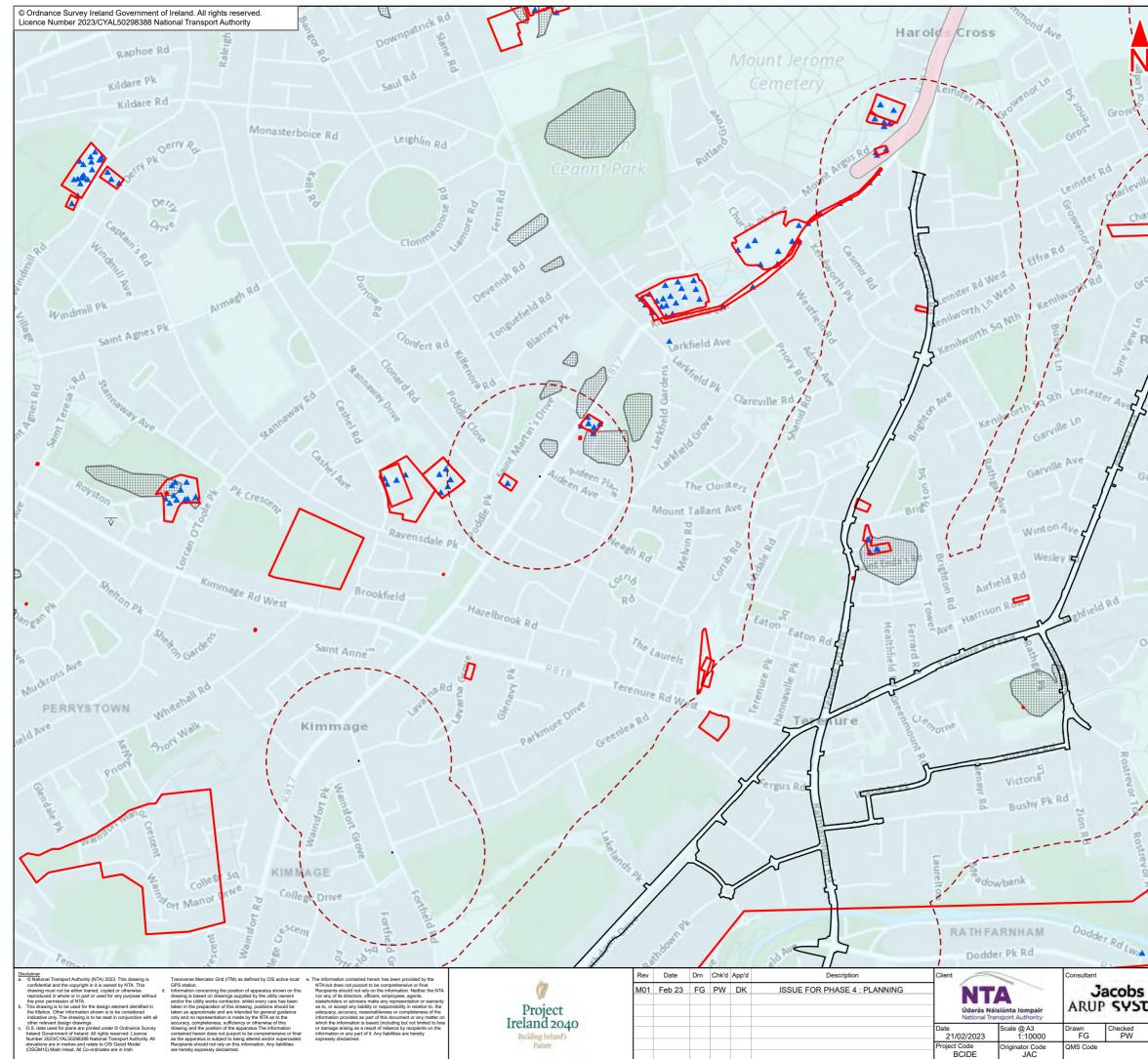


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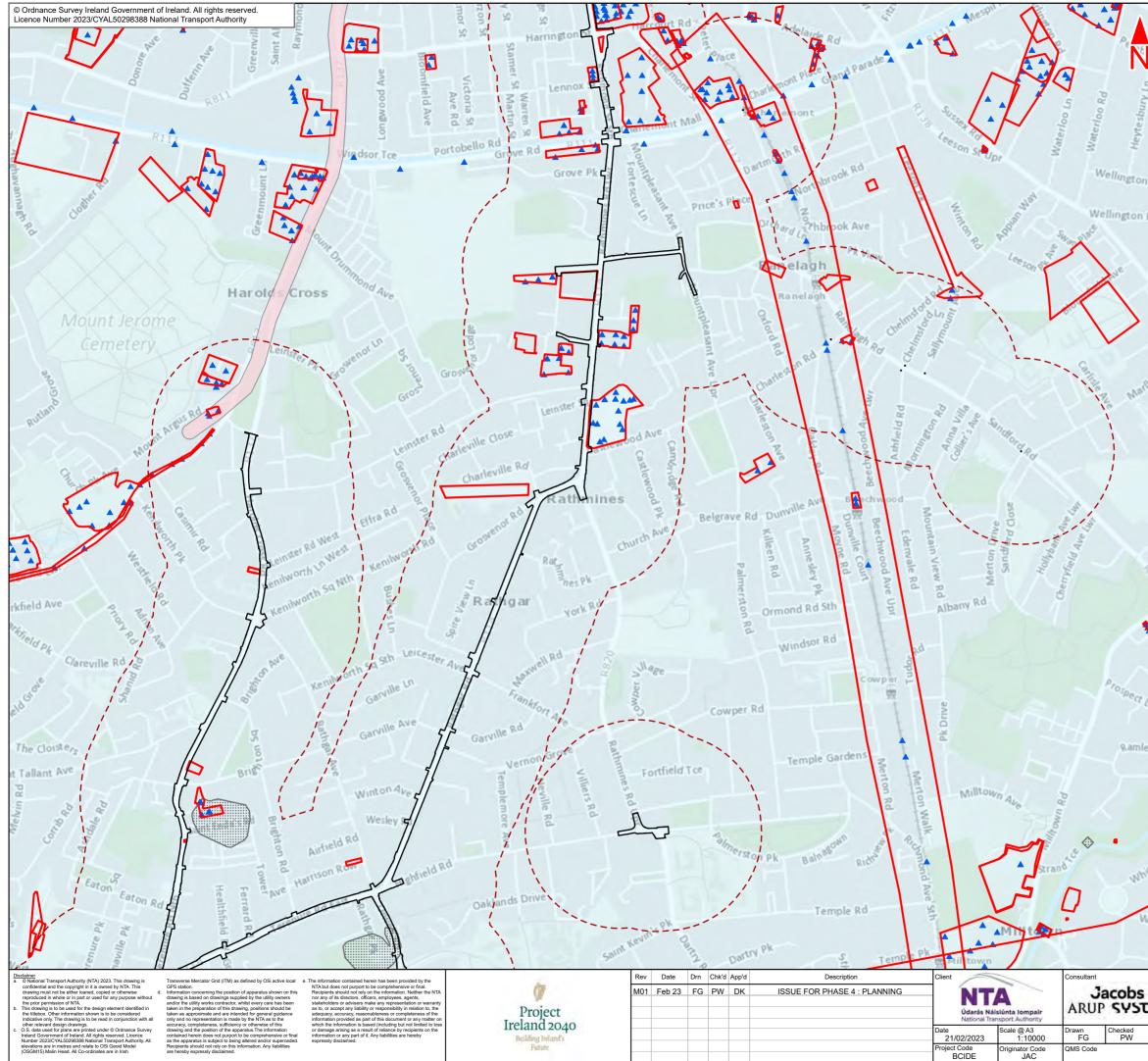


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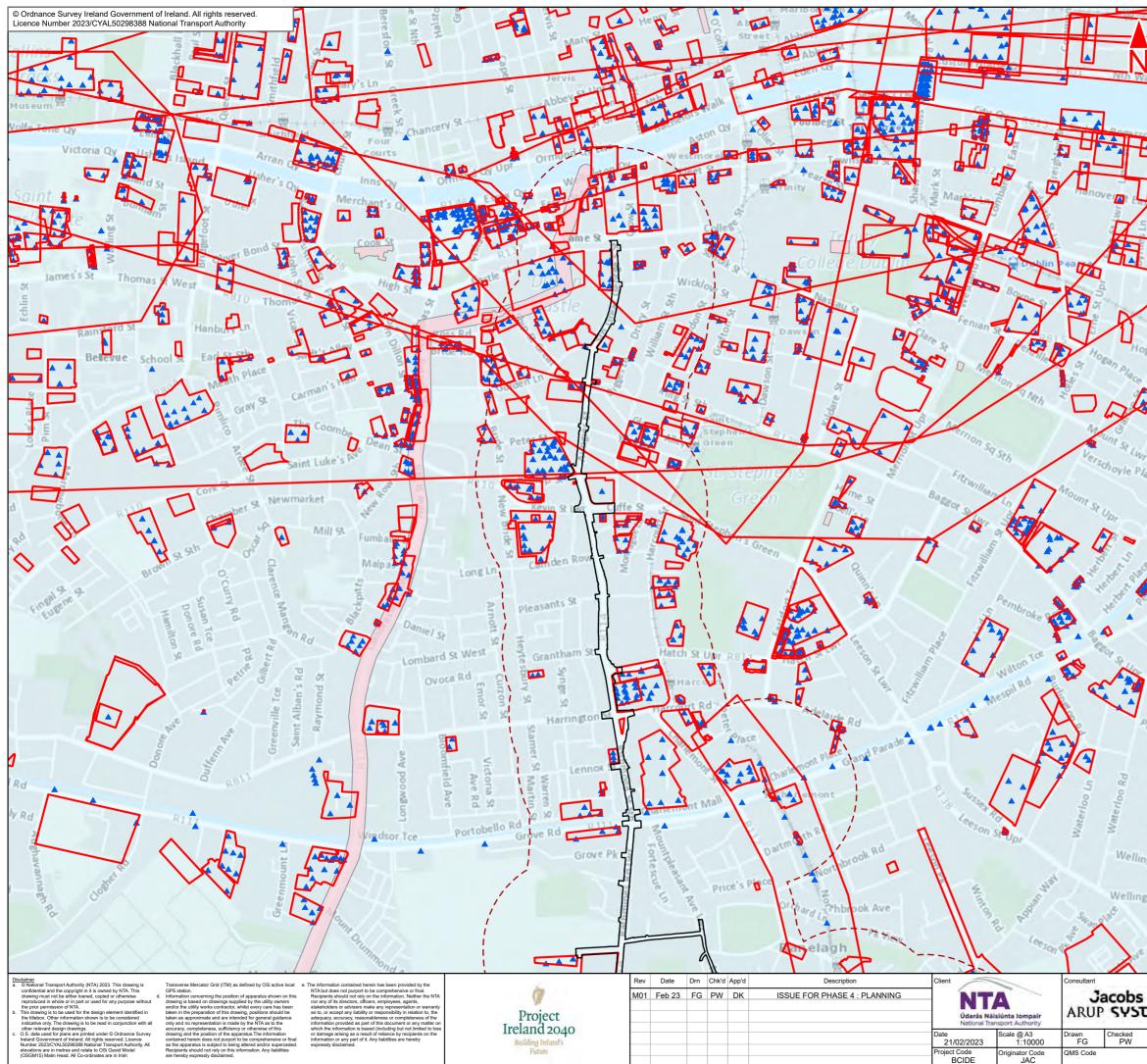


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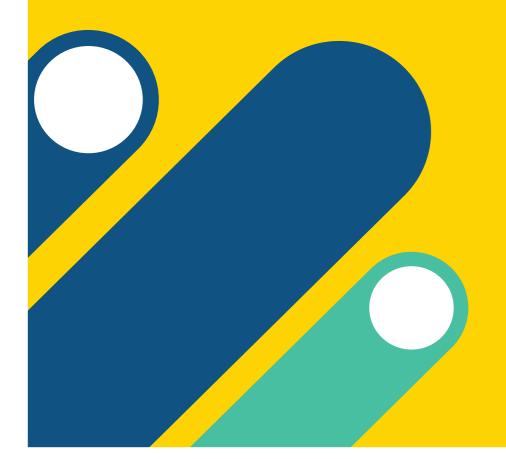


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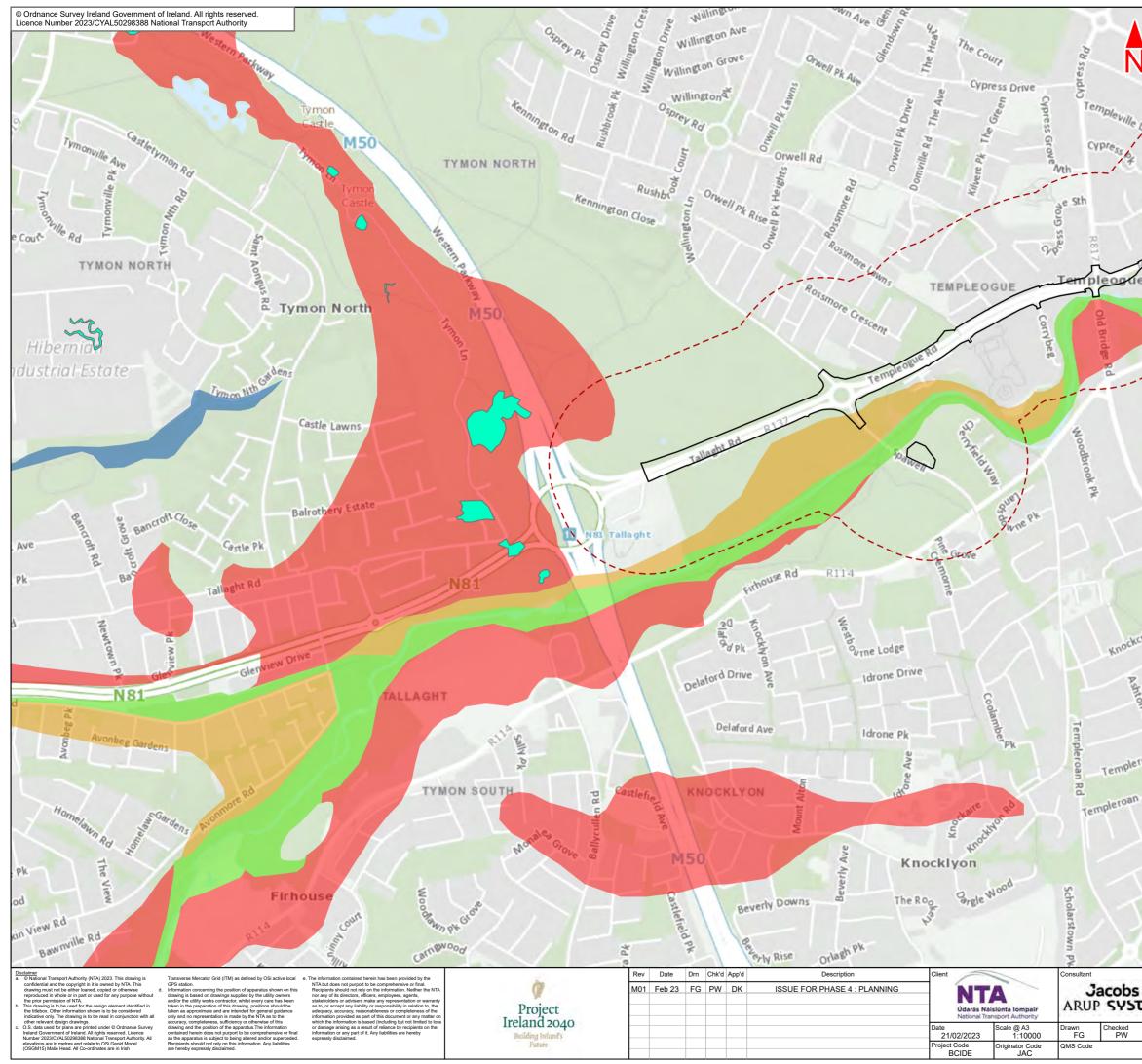


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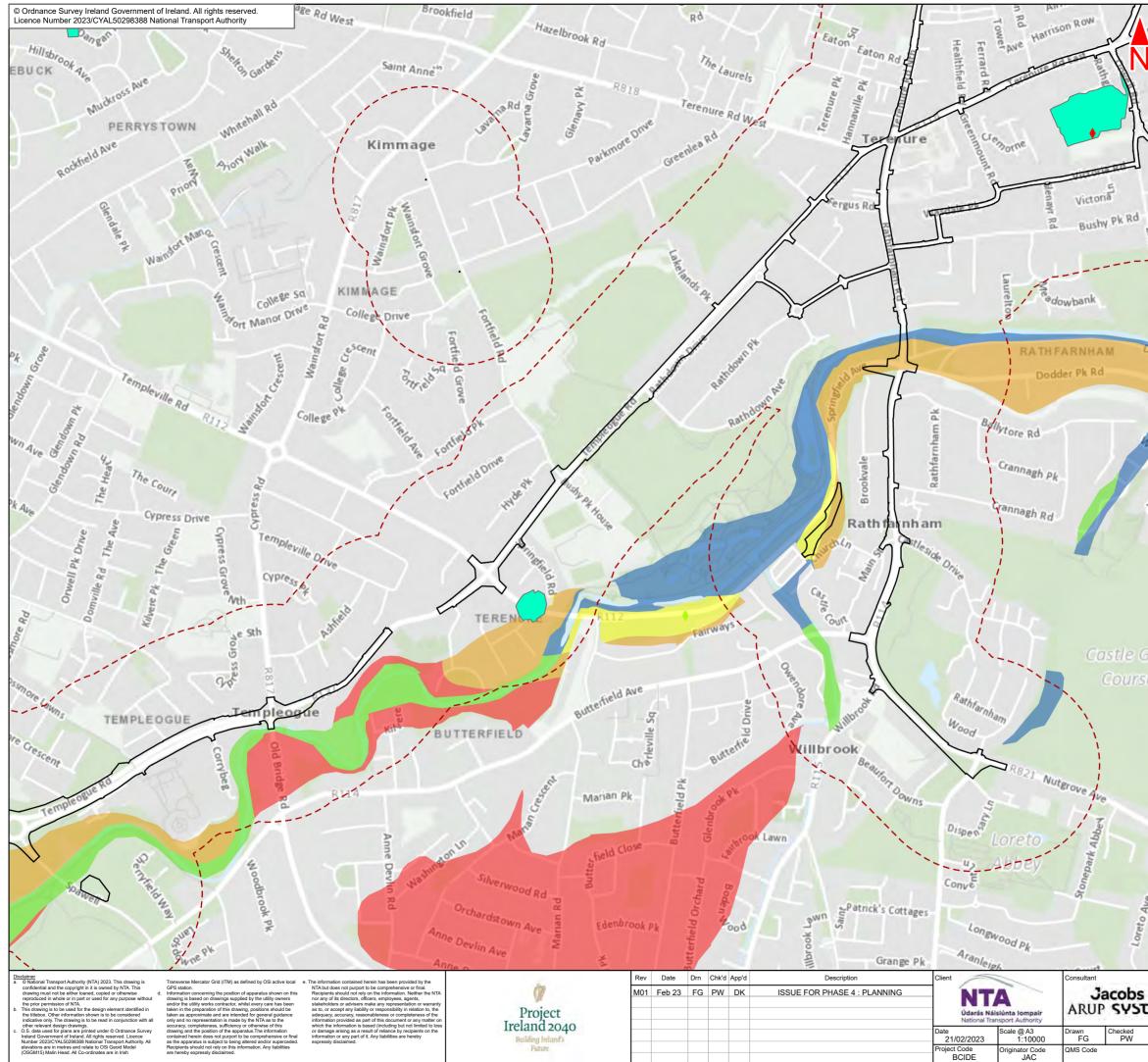
## **14.11** Granular Aggregate Potential



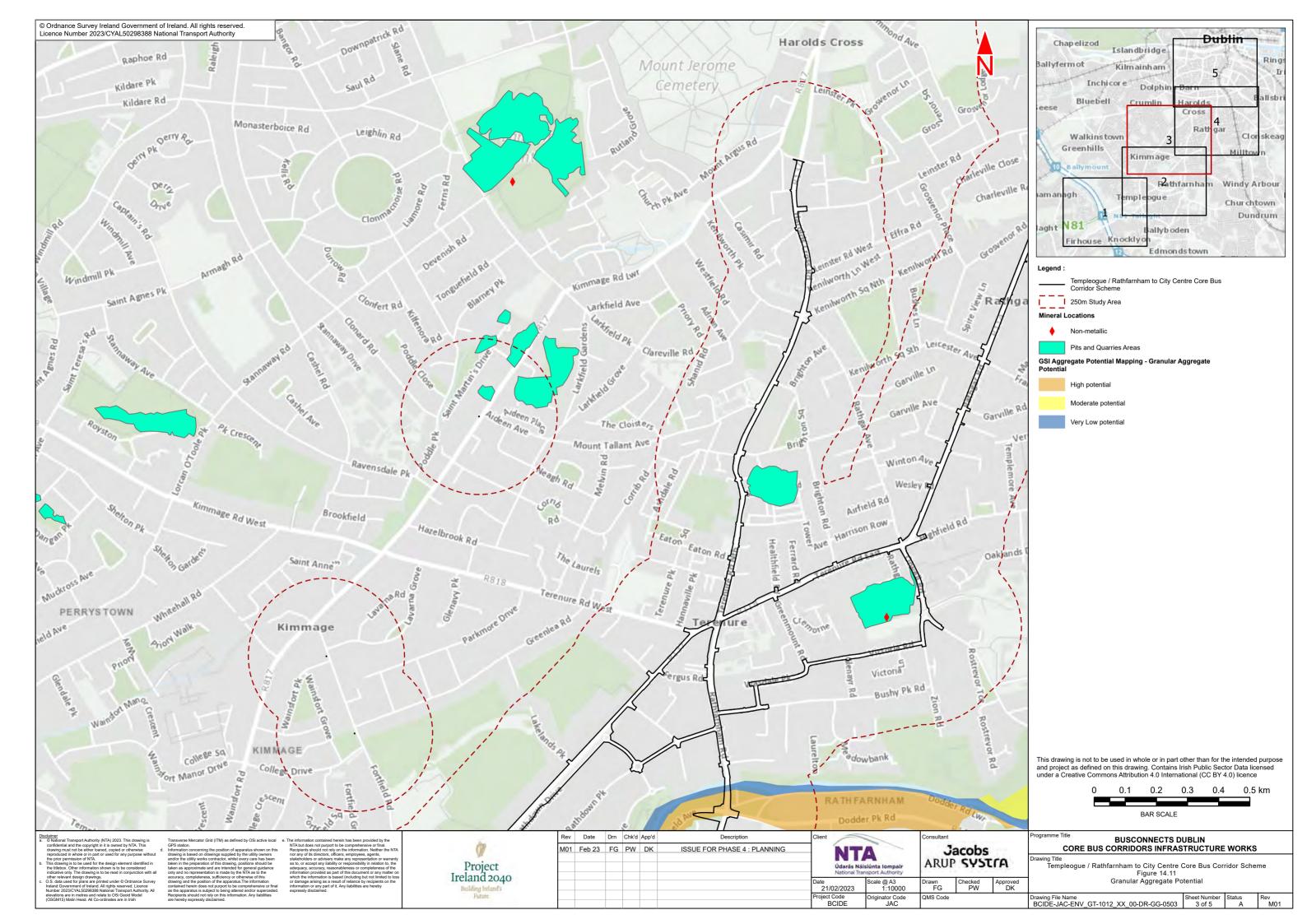


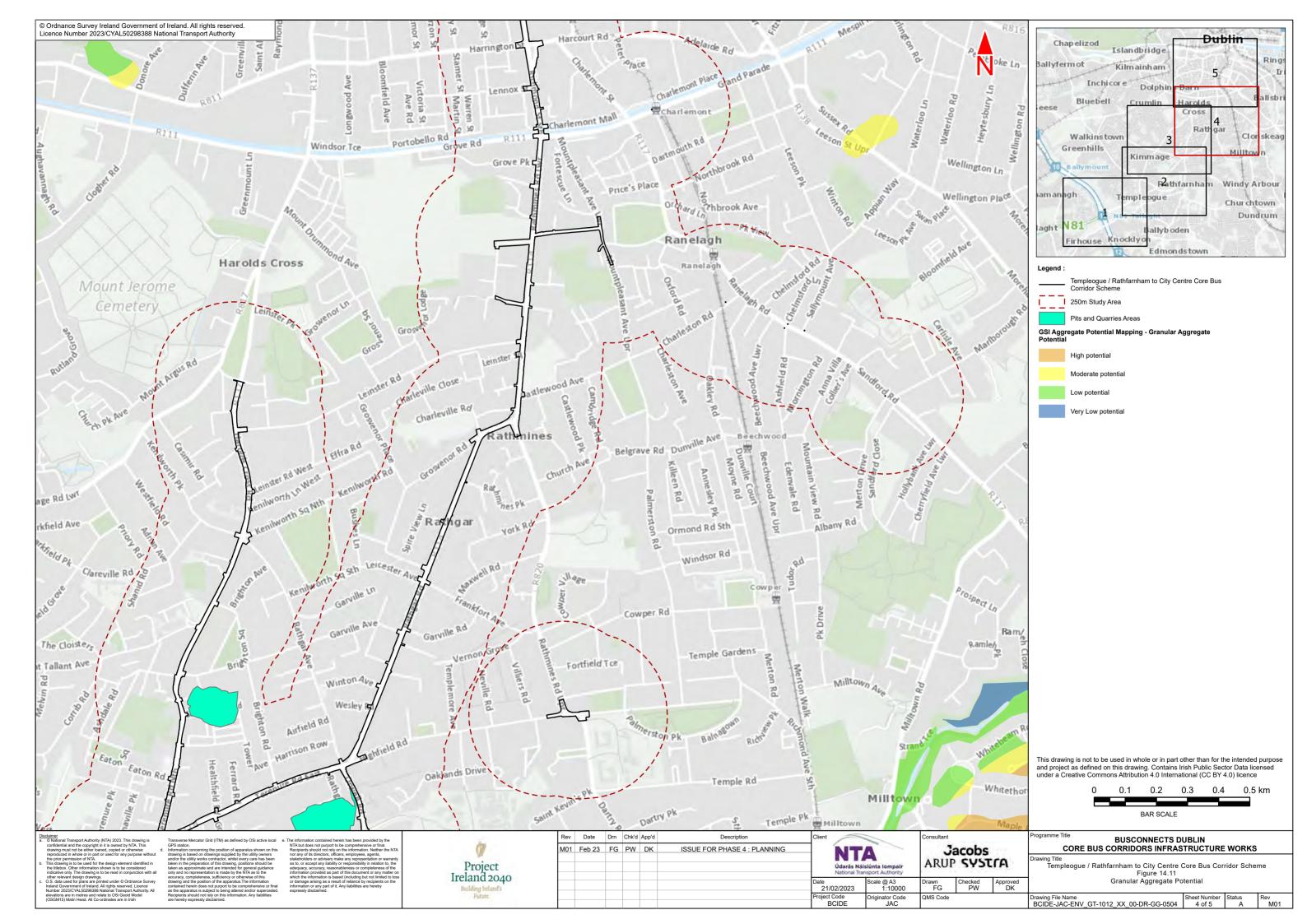


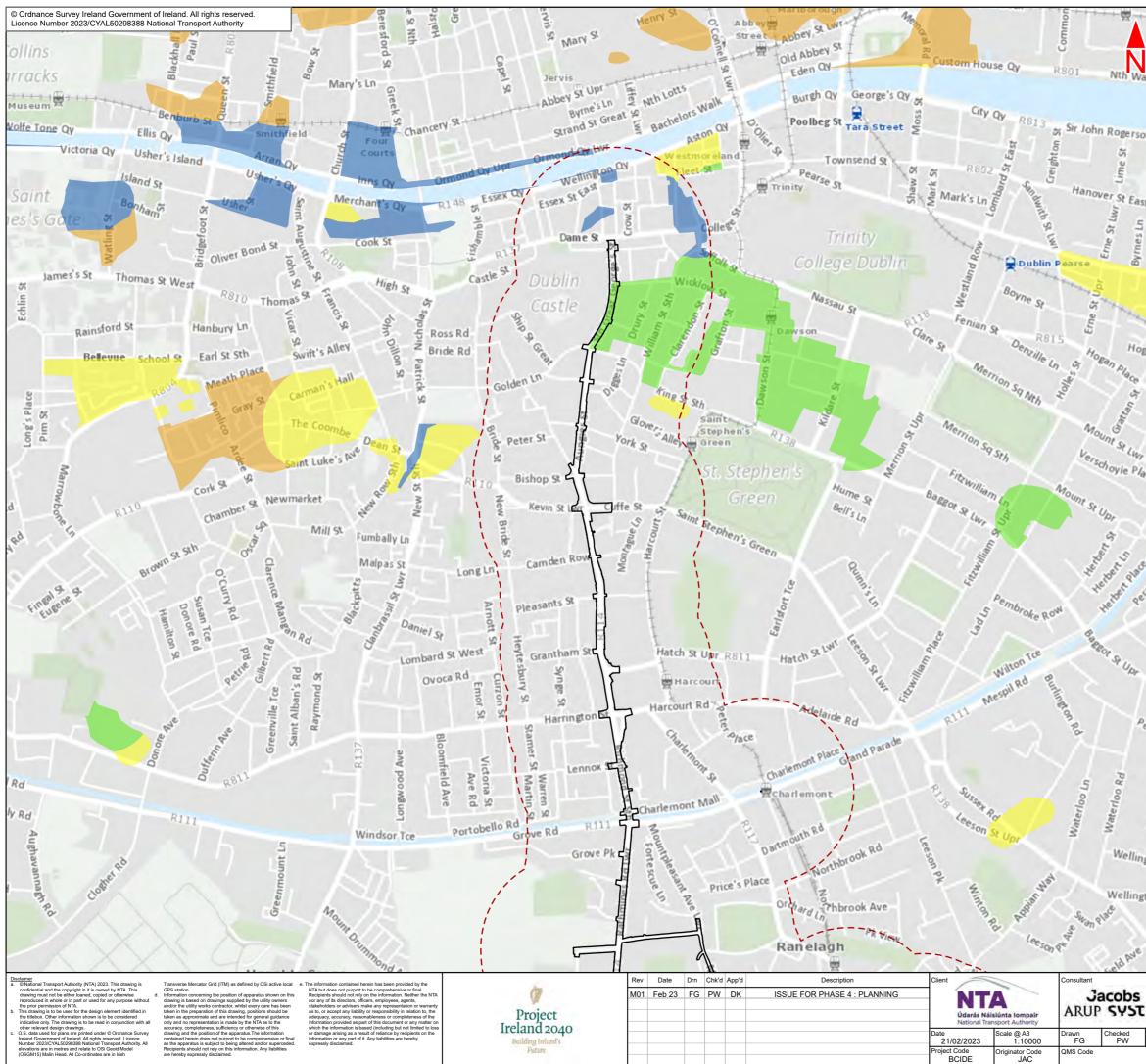
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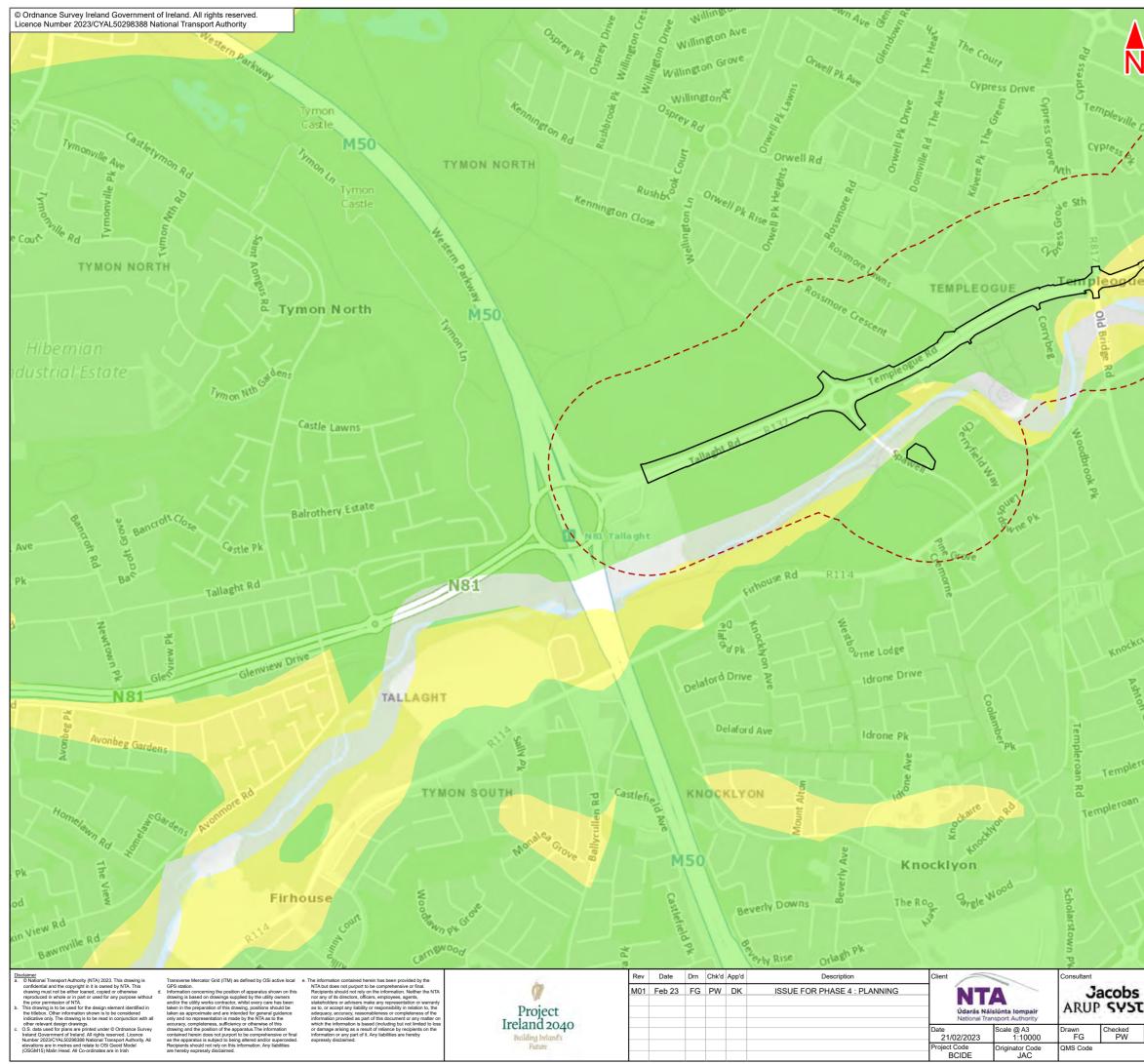


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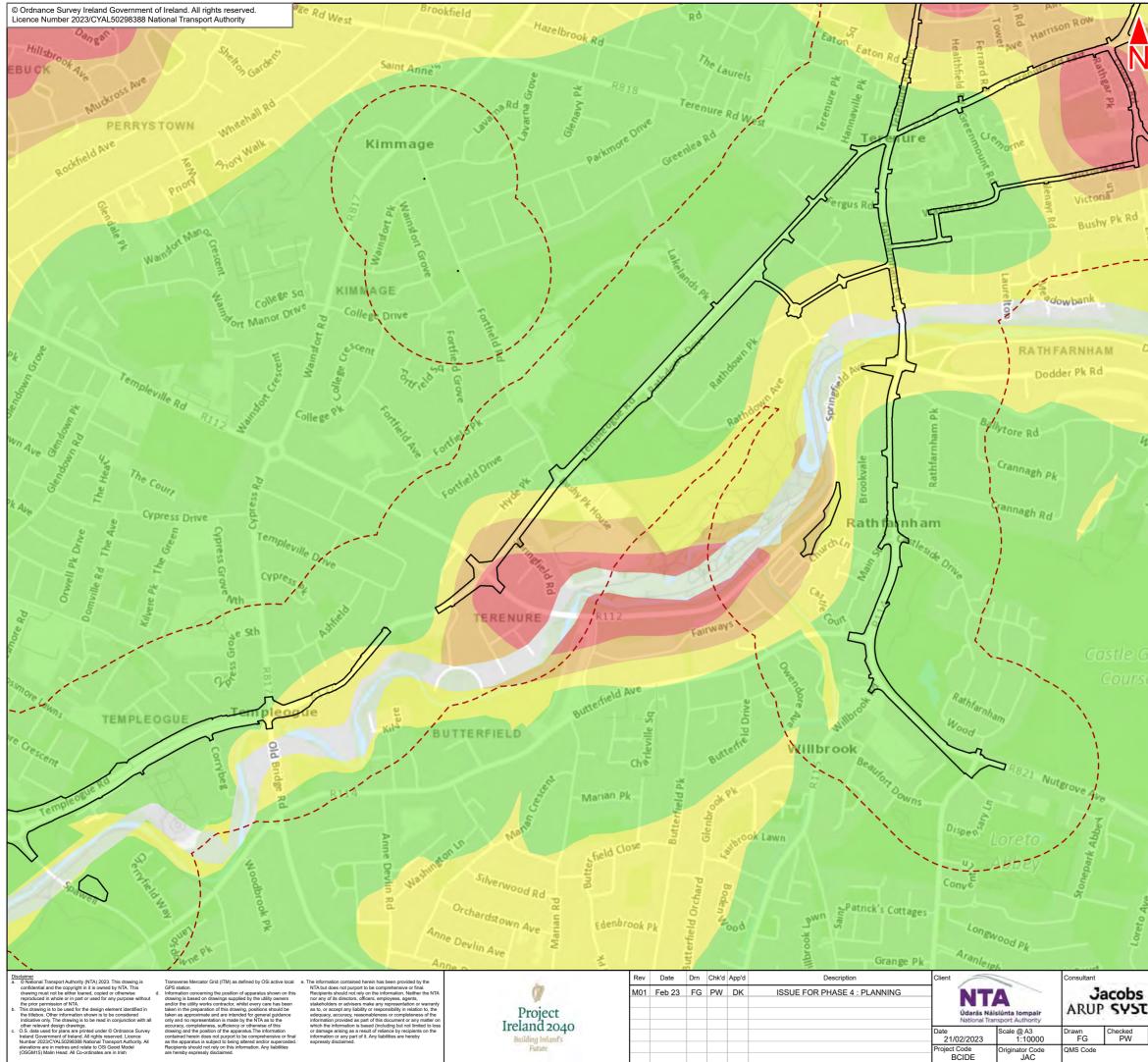
#### **14.12** Crushed Rock Aggregate Potential







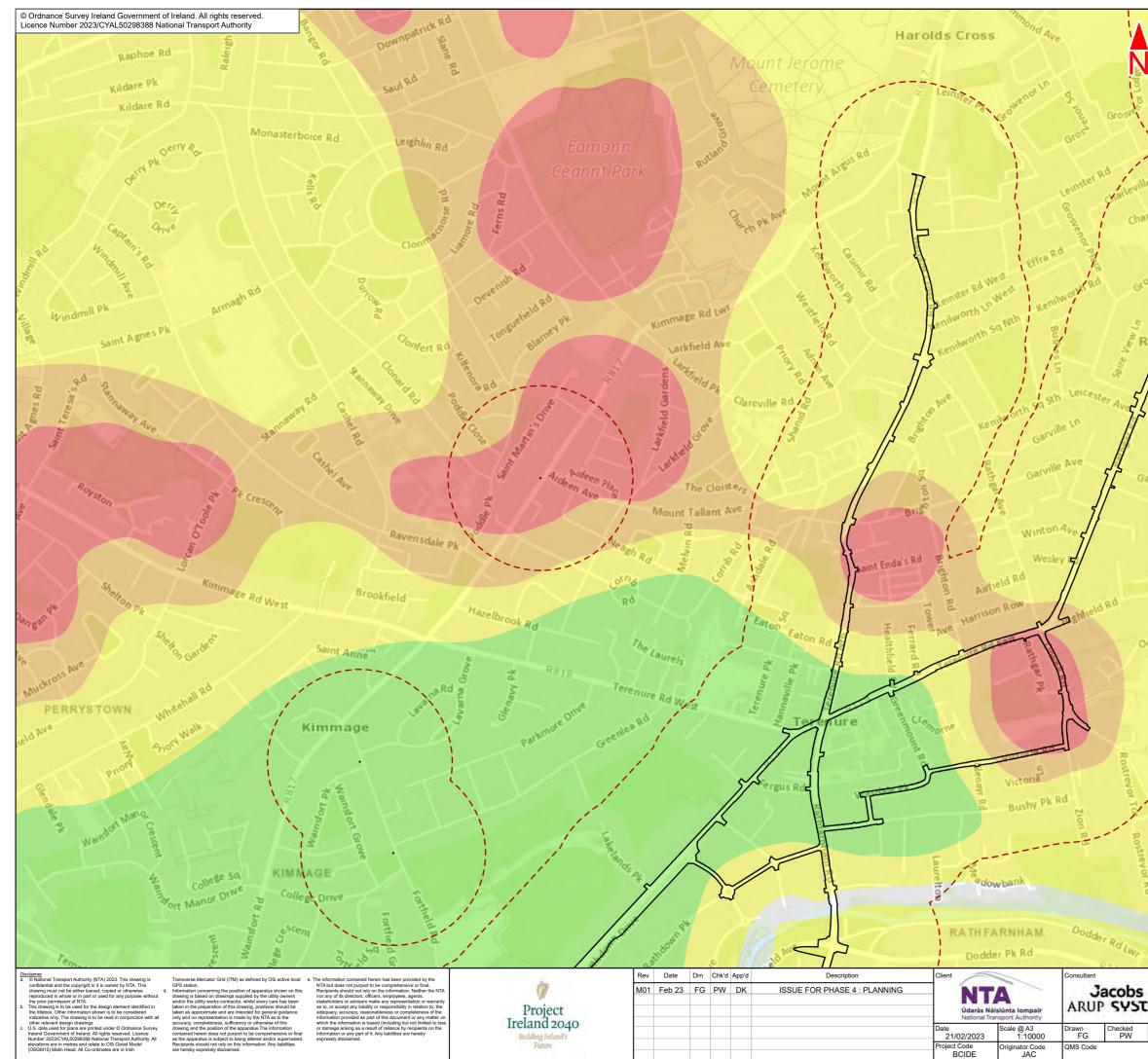
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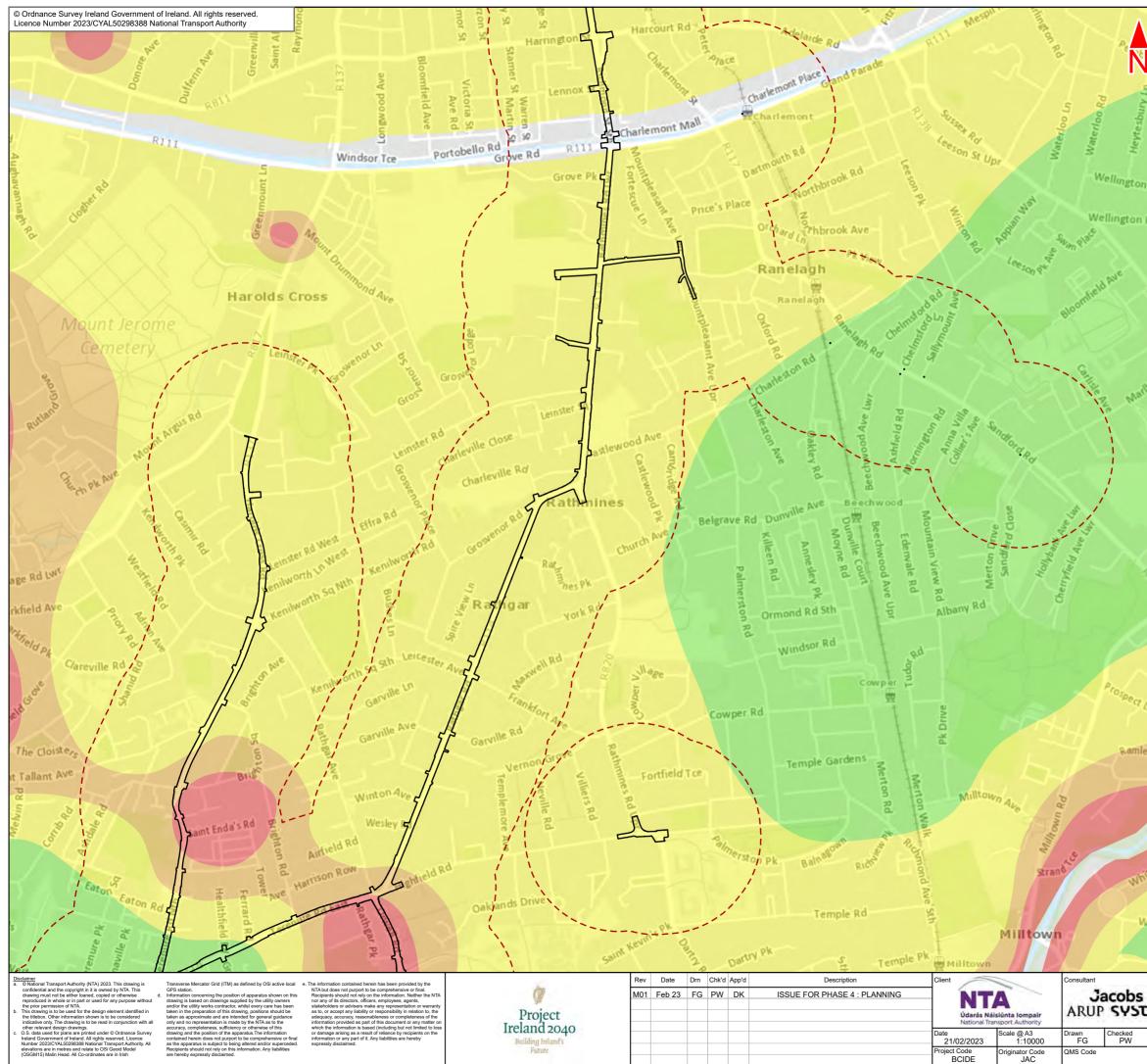
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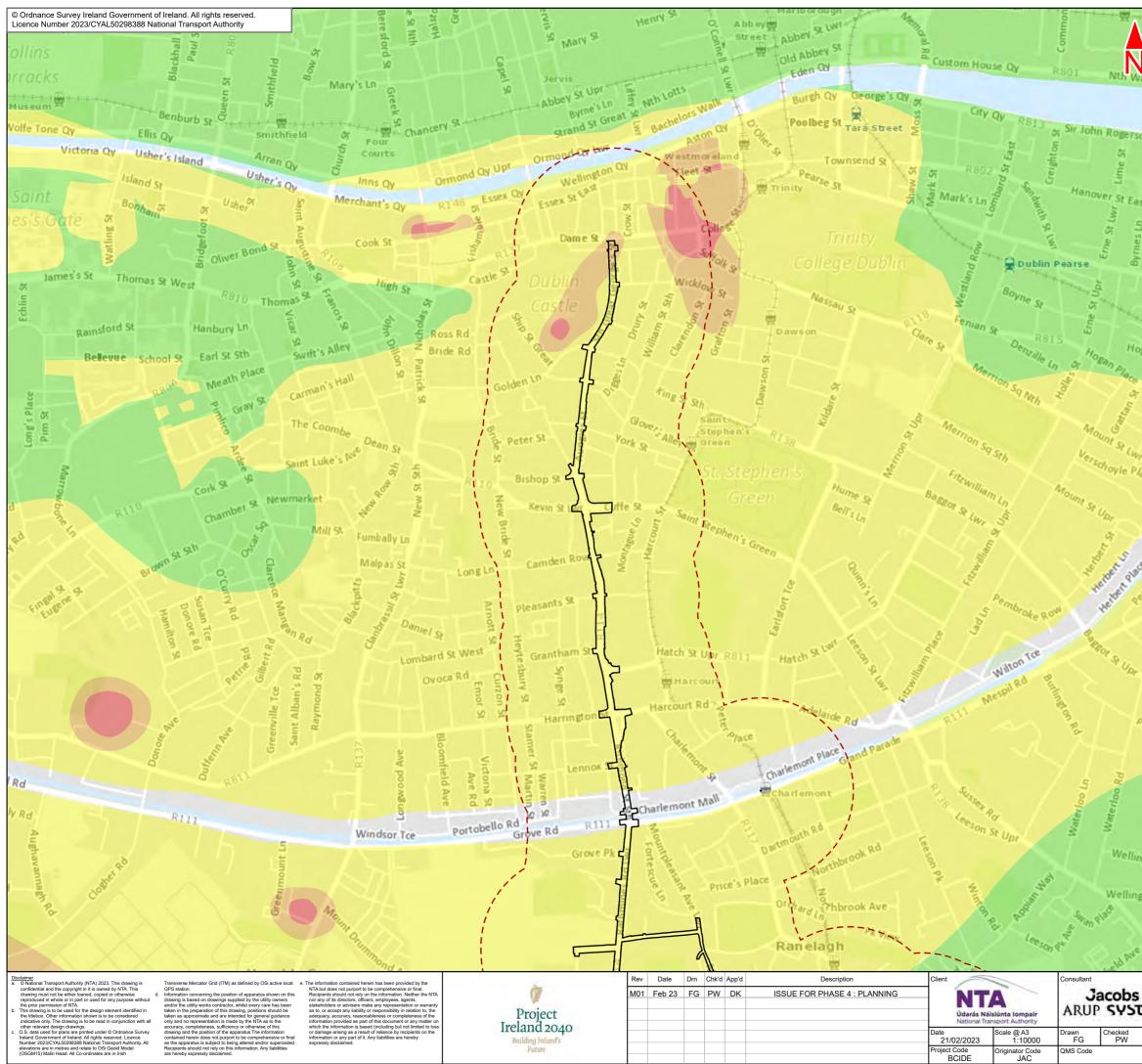
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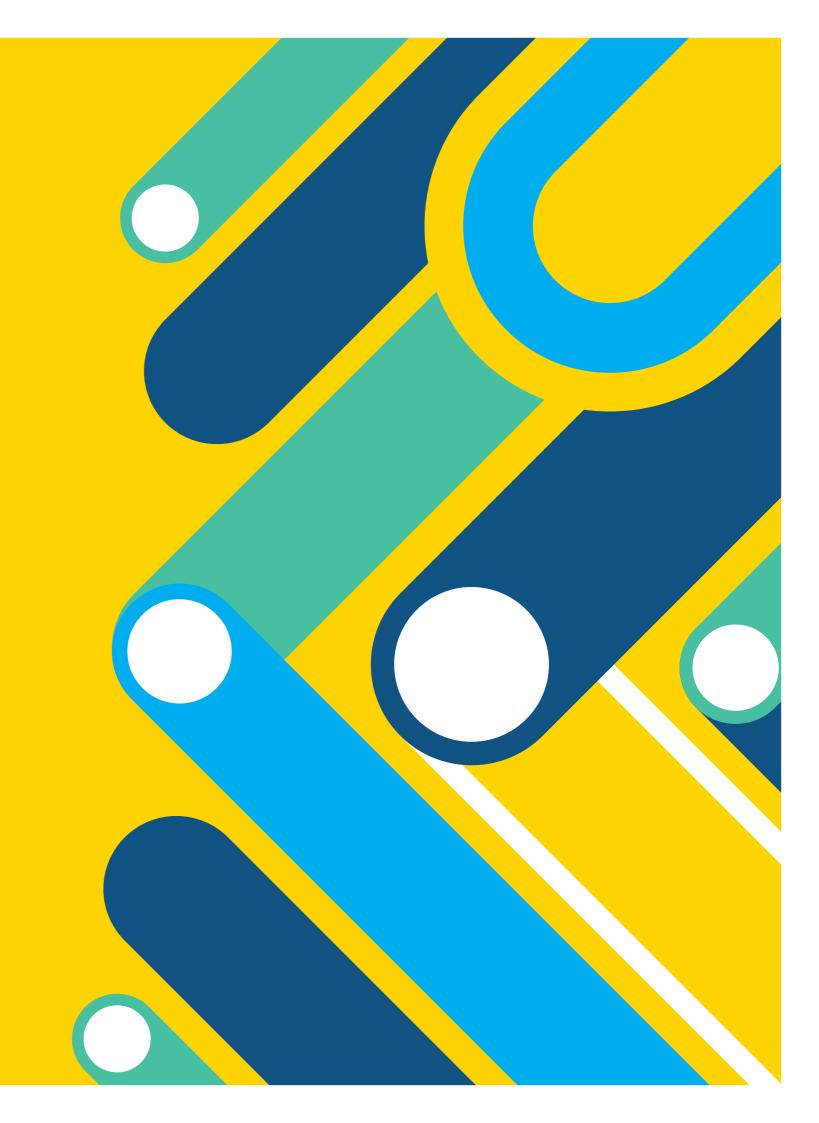
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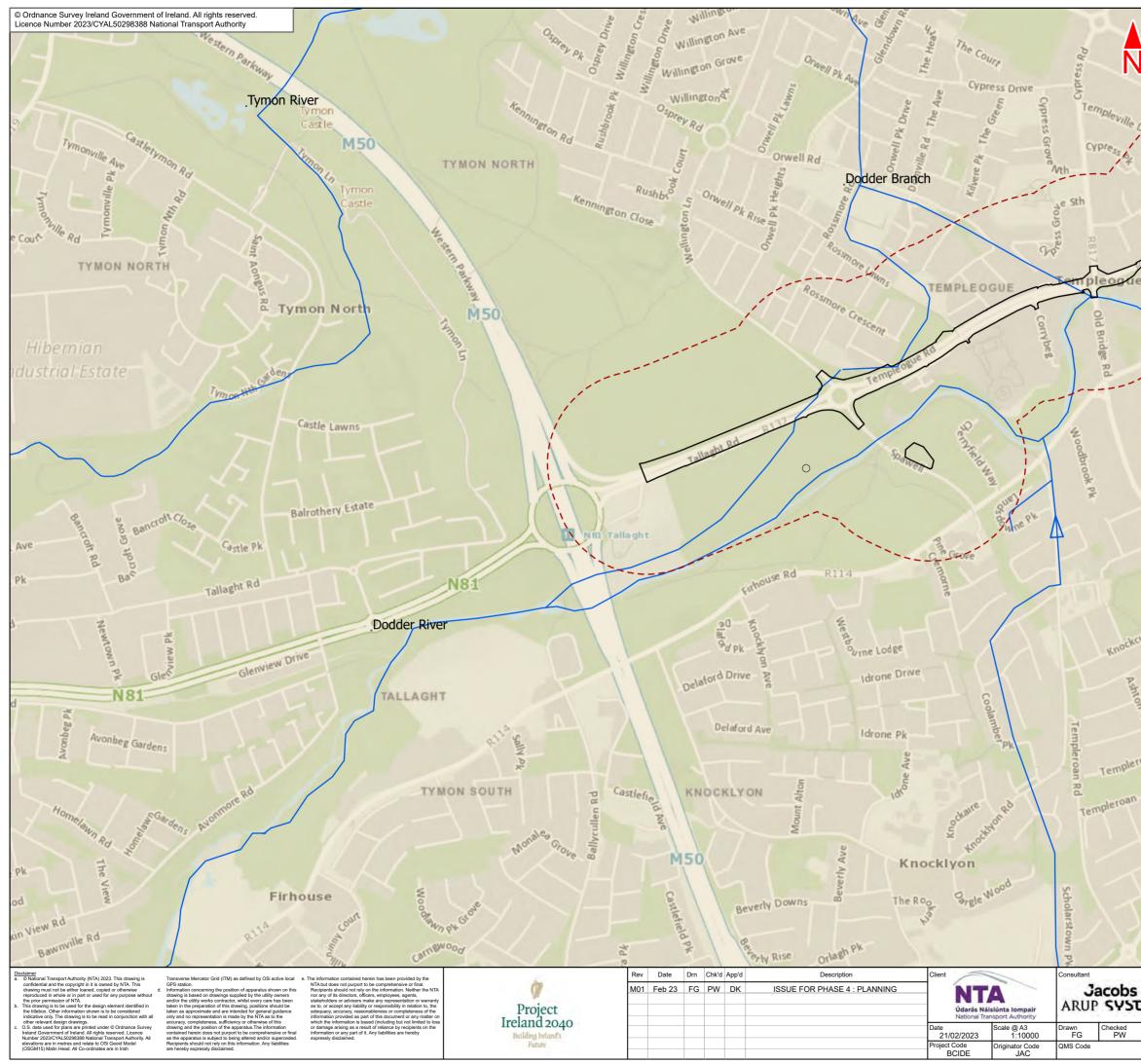


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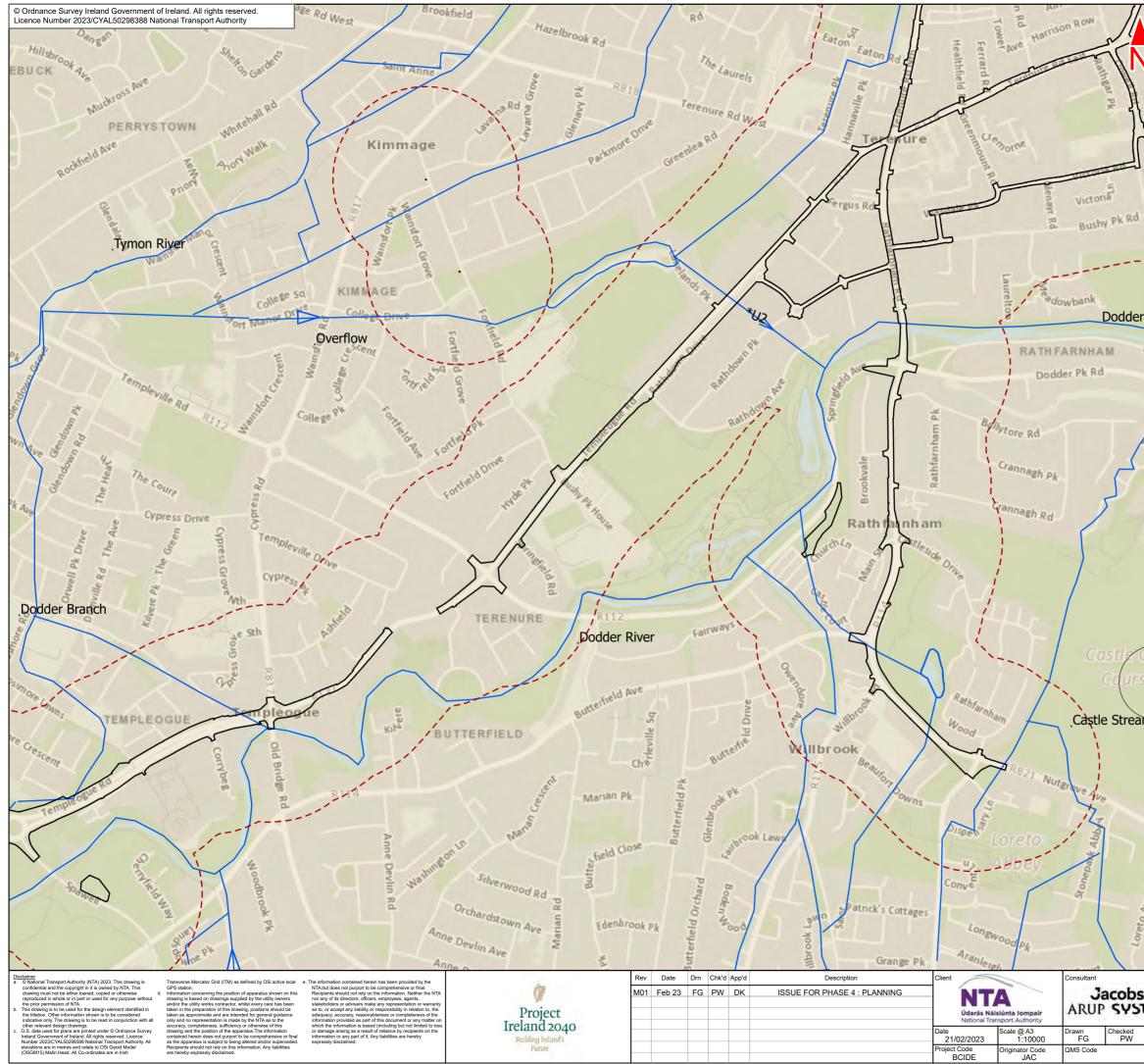
# **14.13** Aquifers



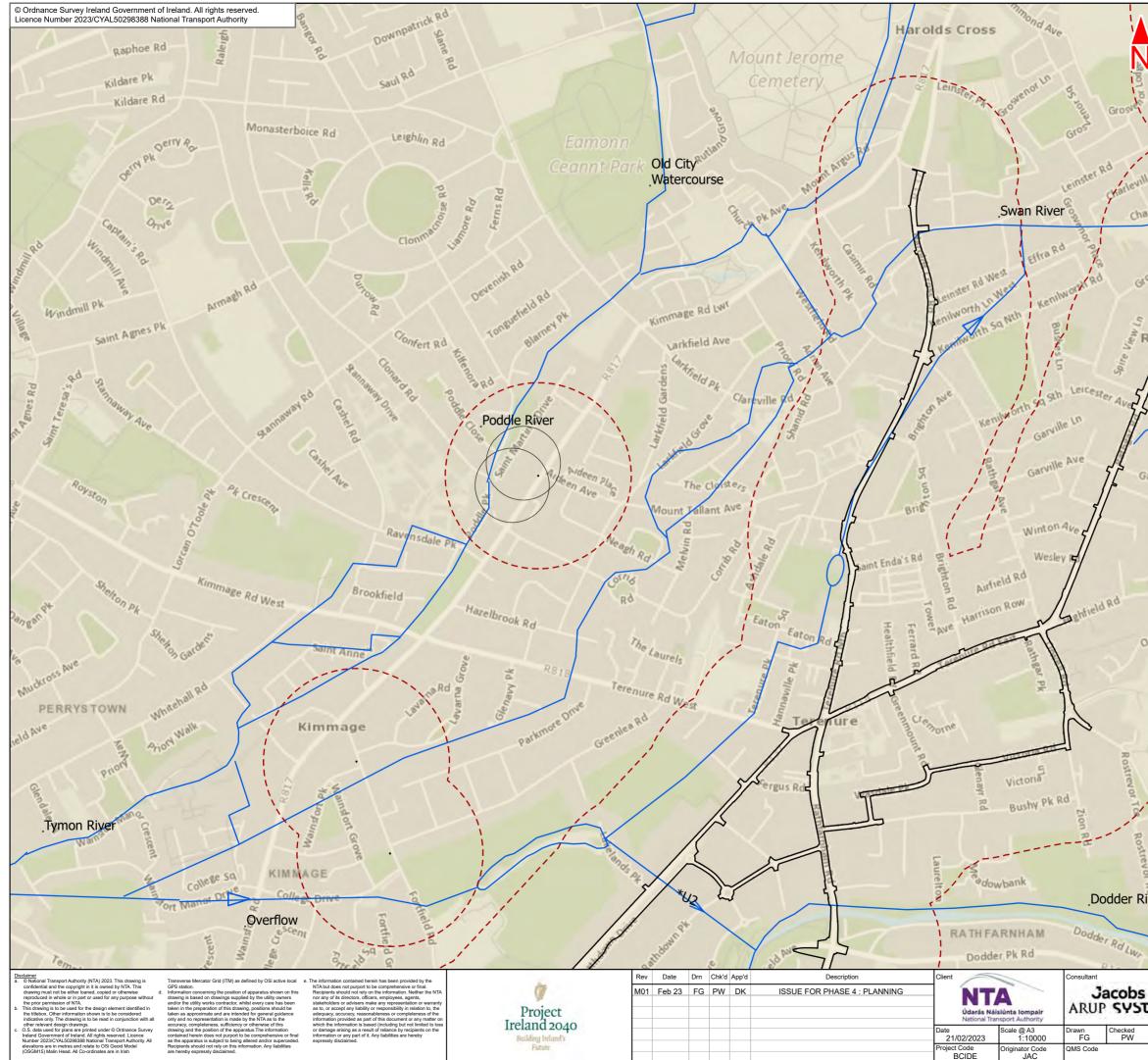




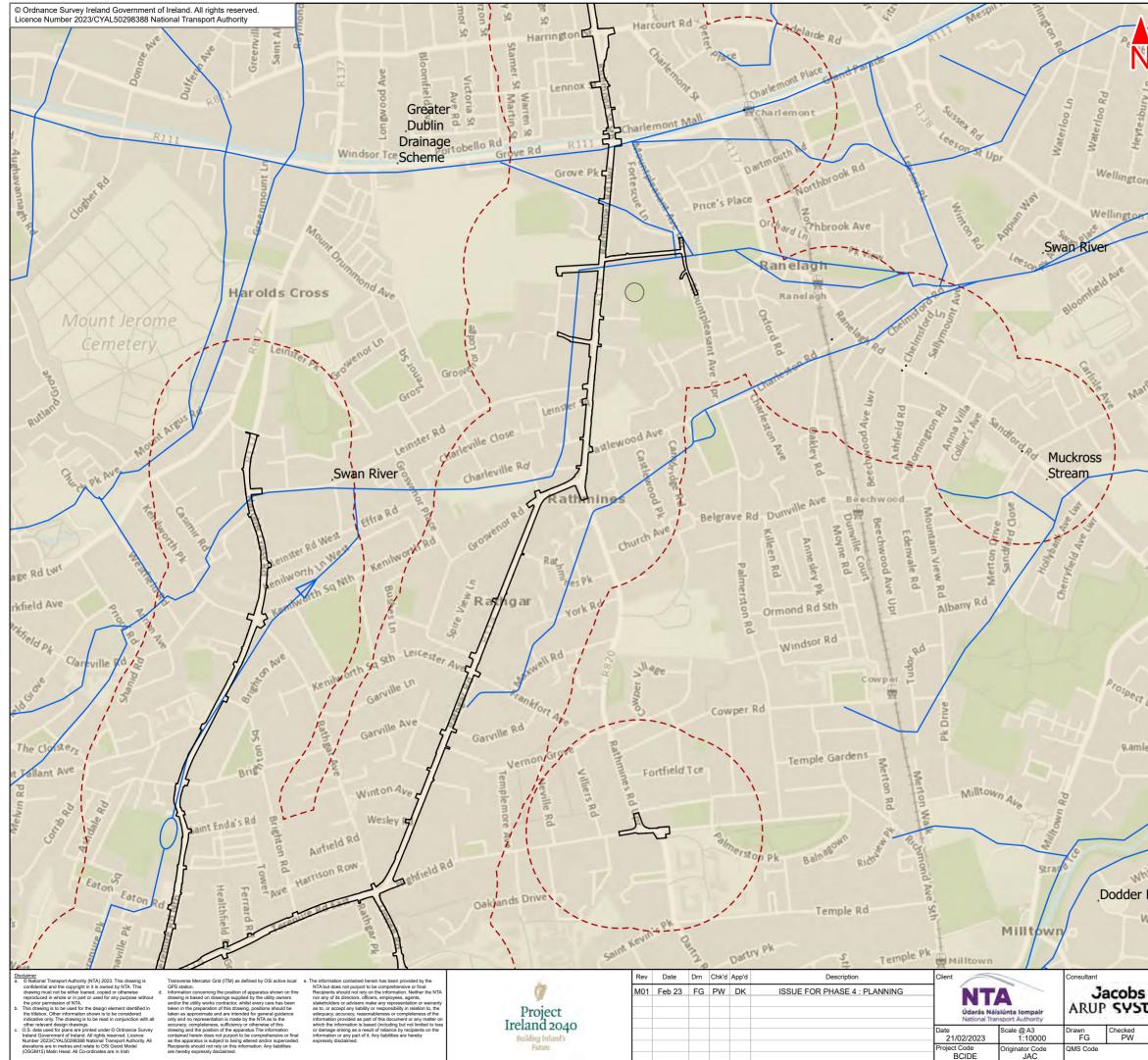
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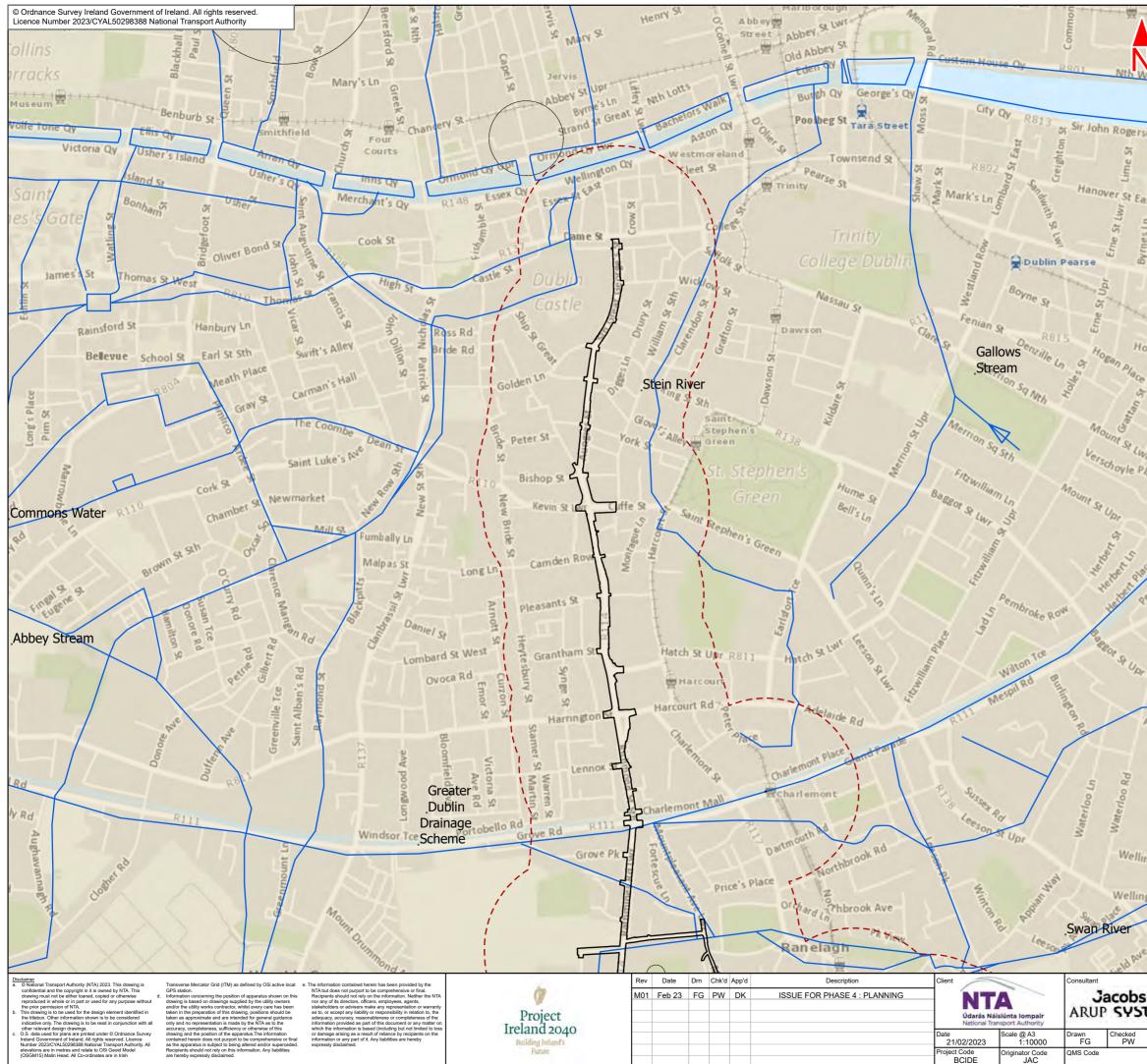
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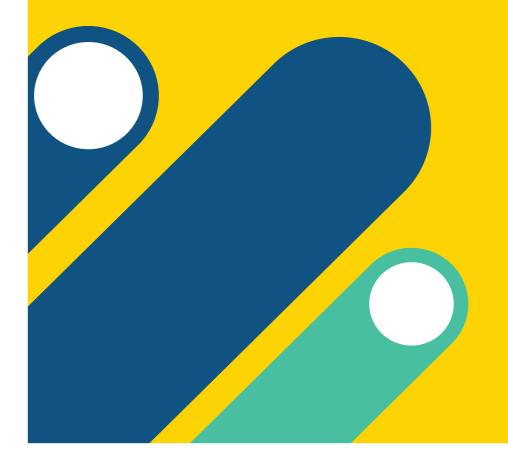


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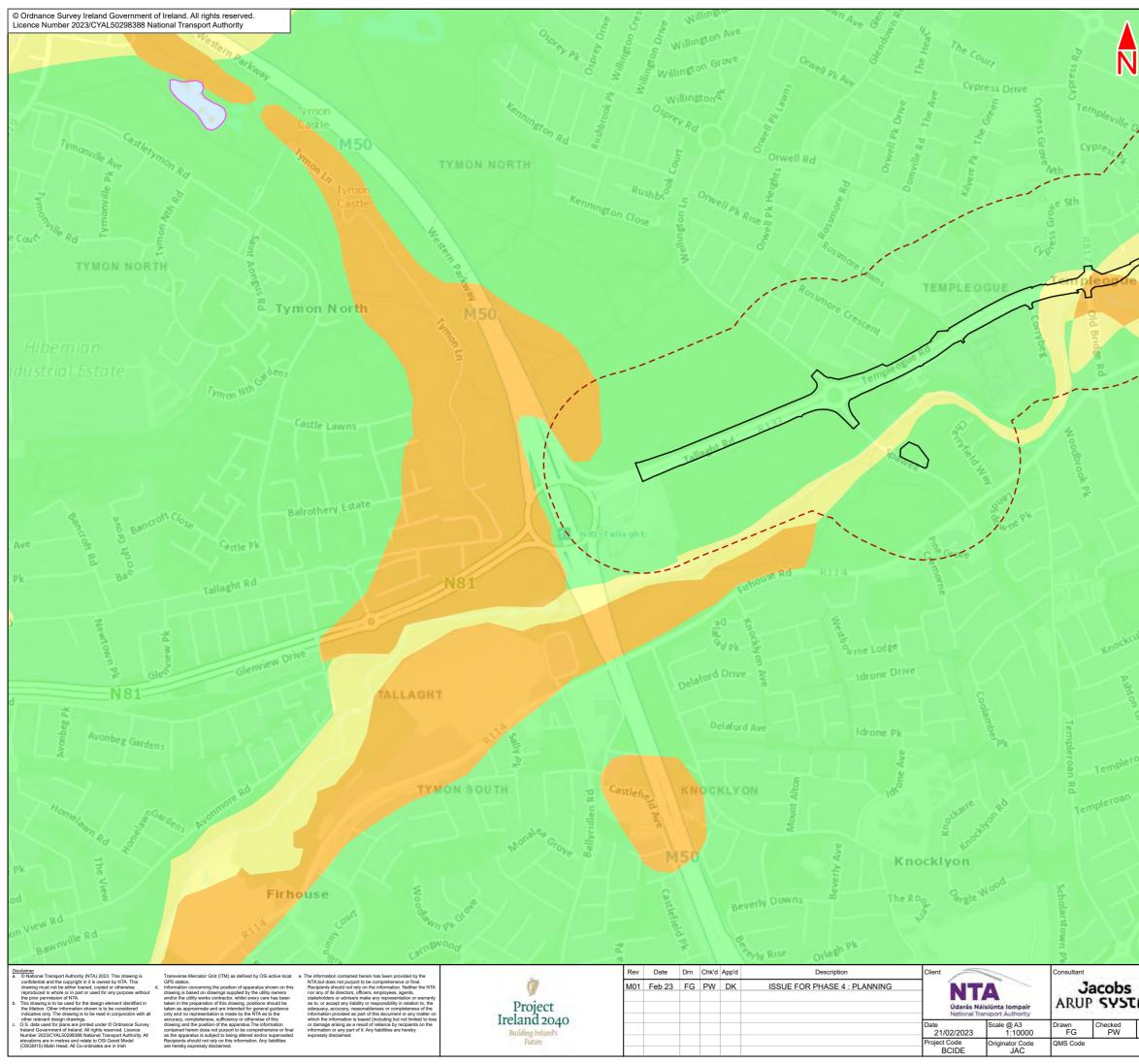


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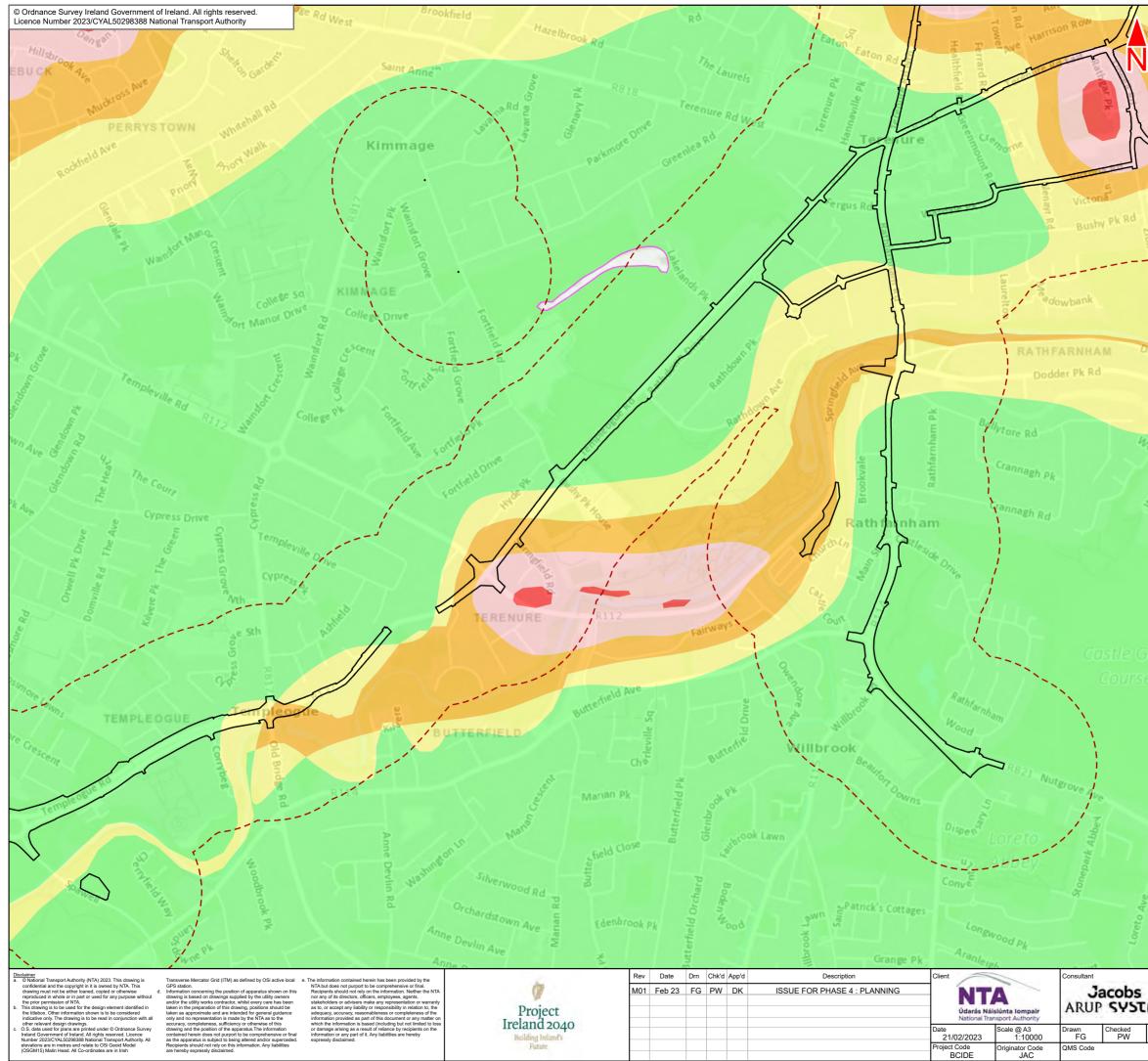
### **14.14** Groundwater Vulnerability



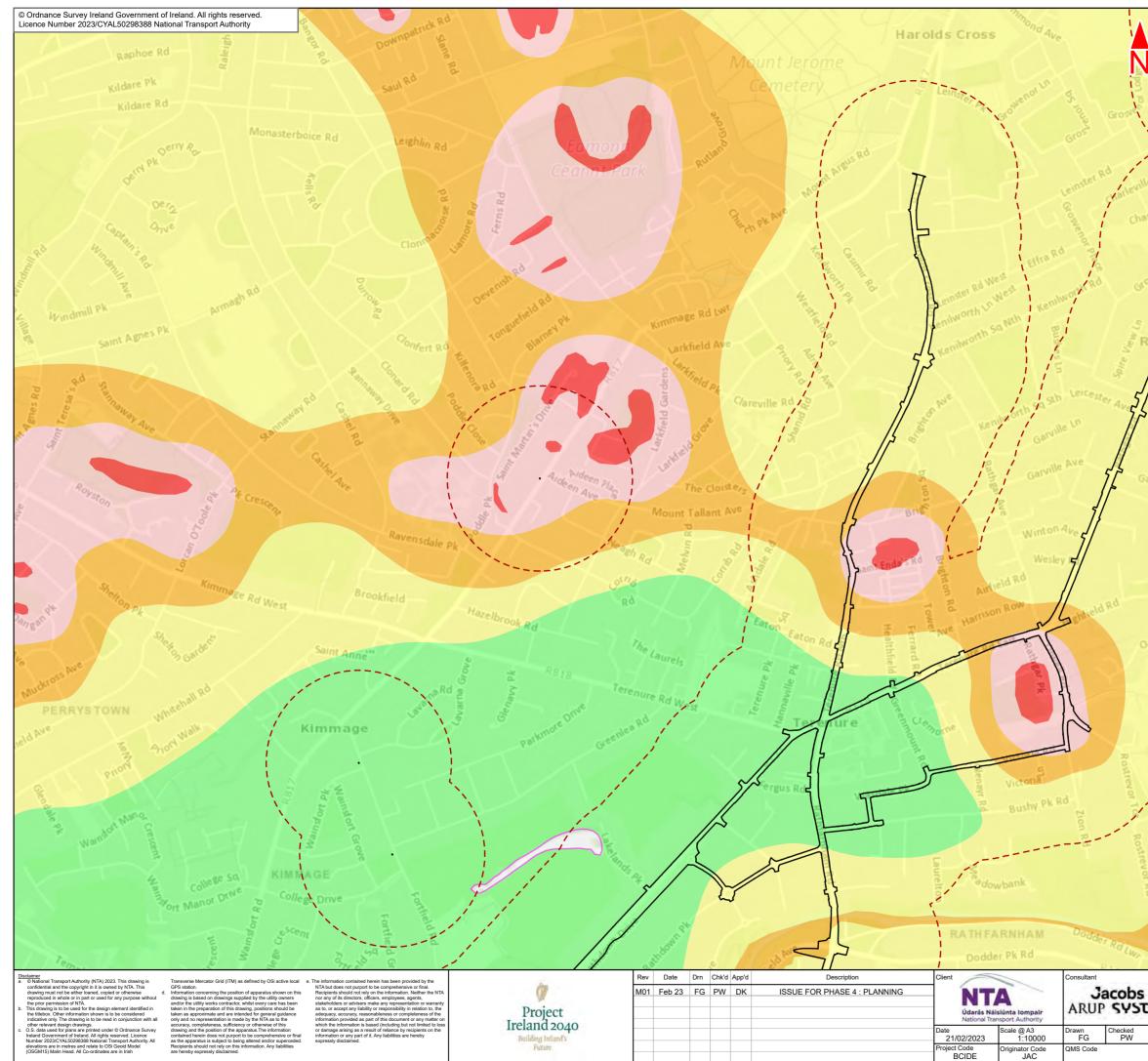




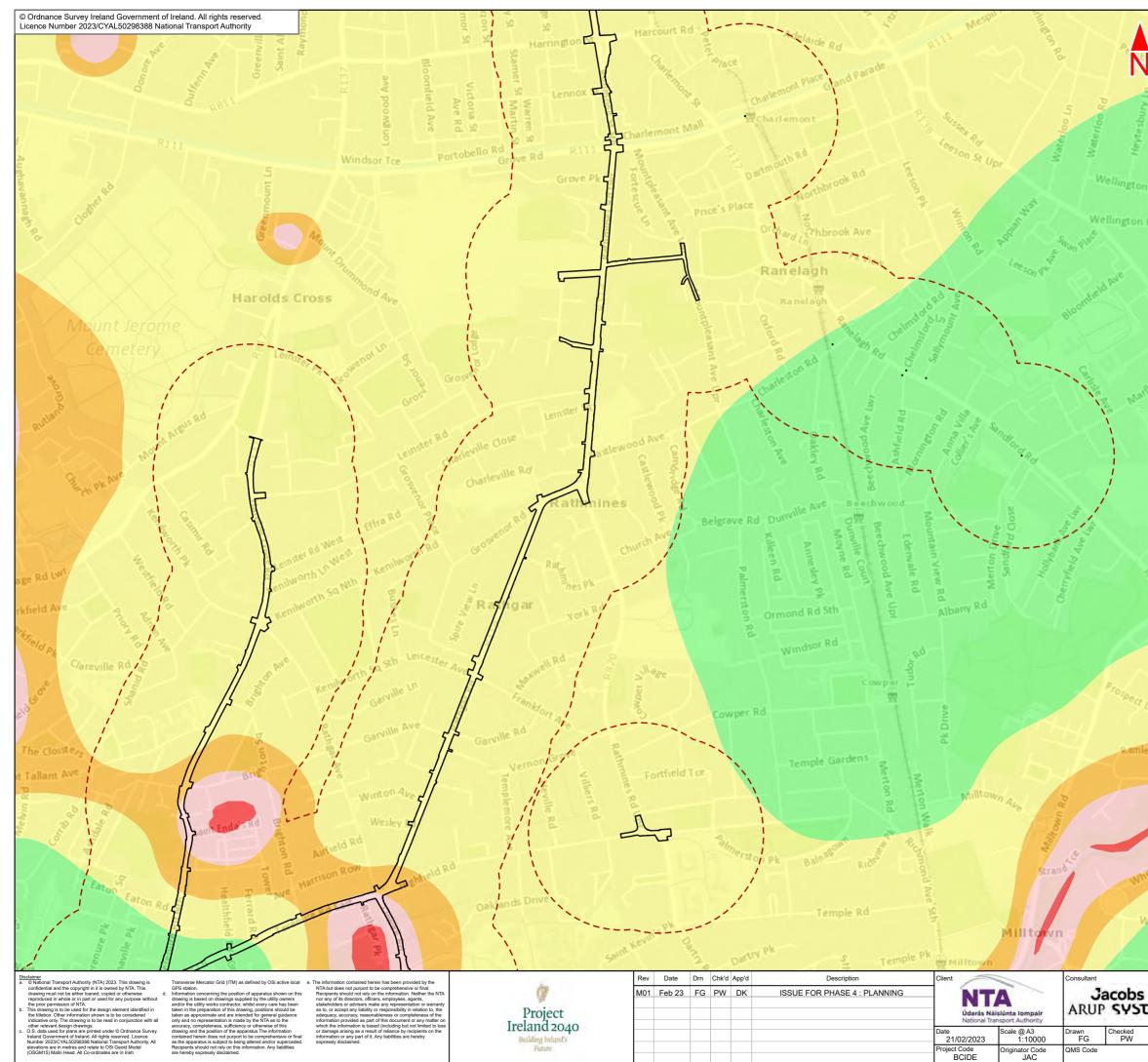
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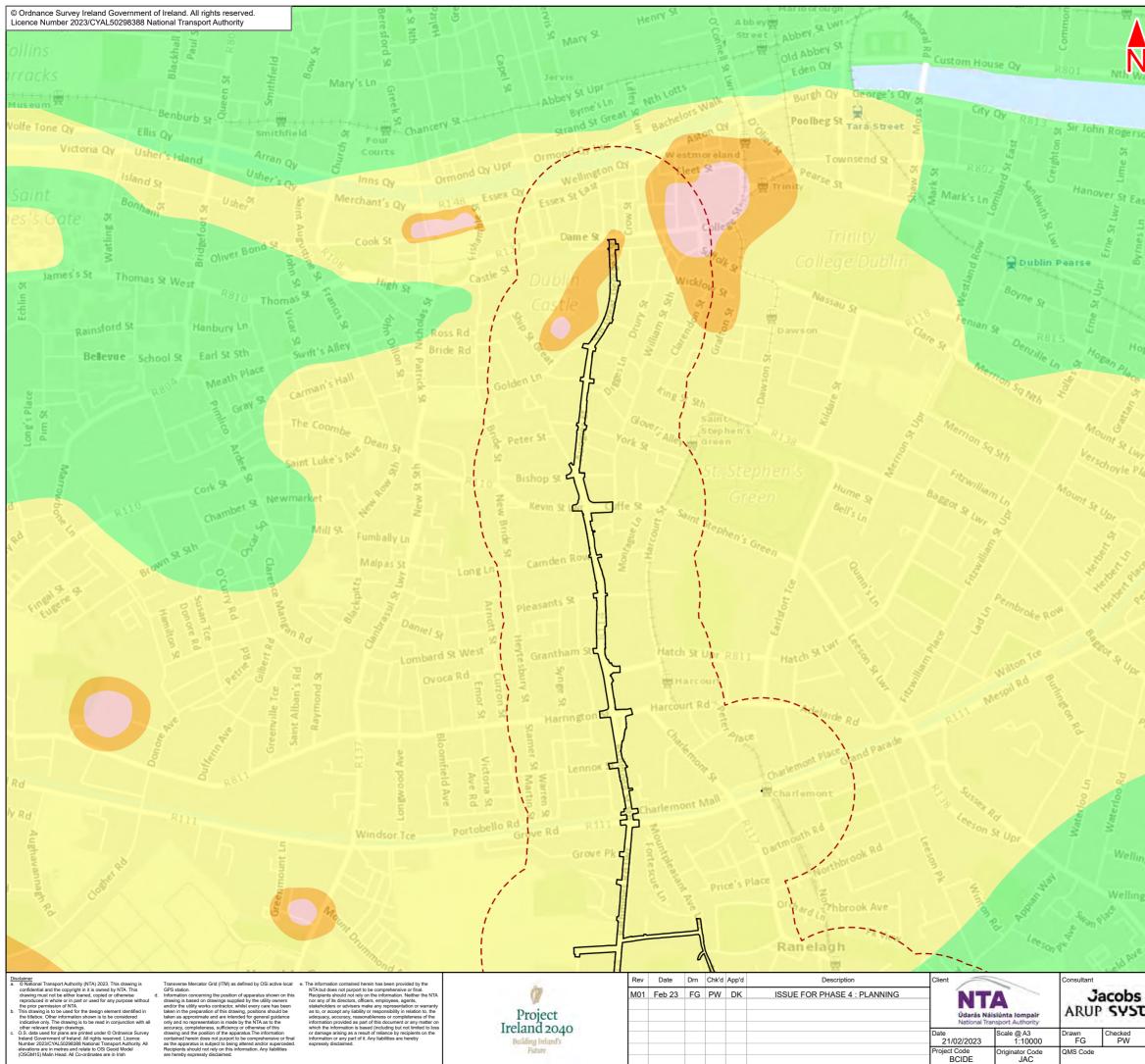
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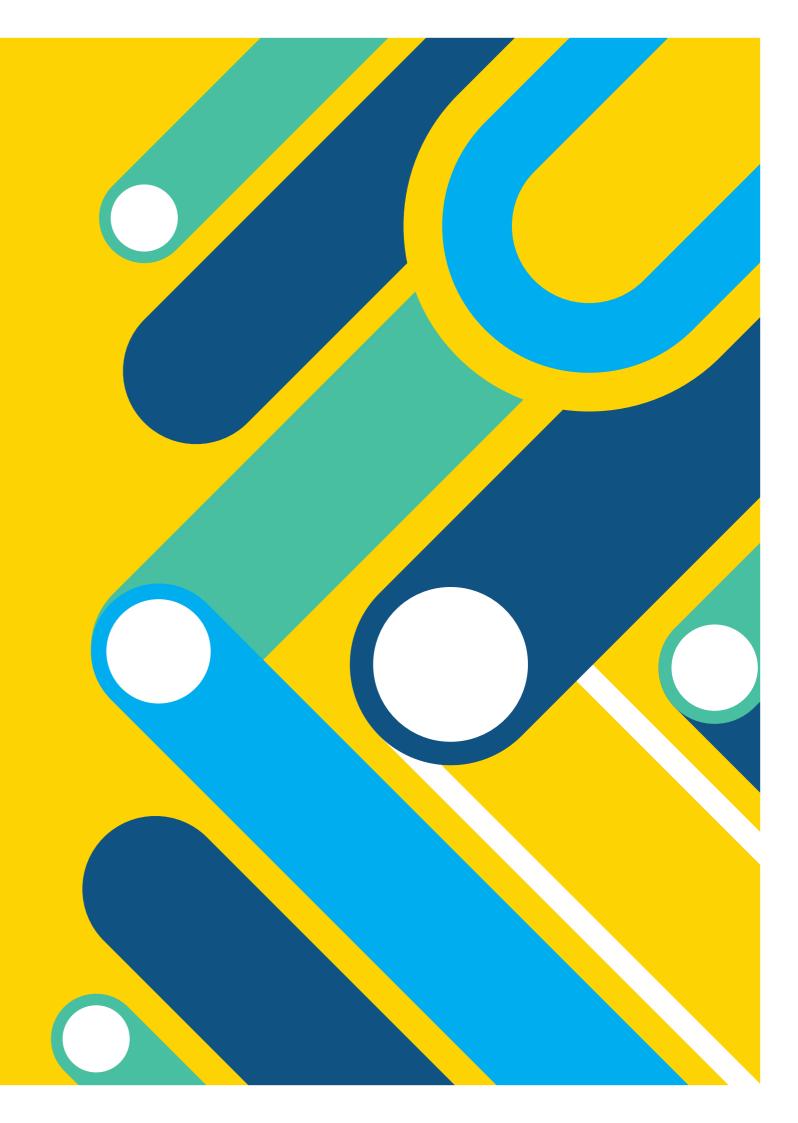
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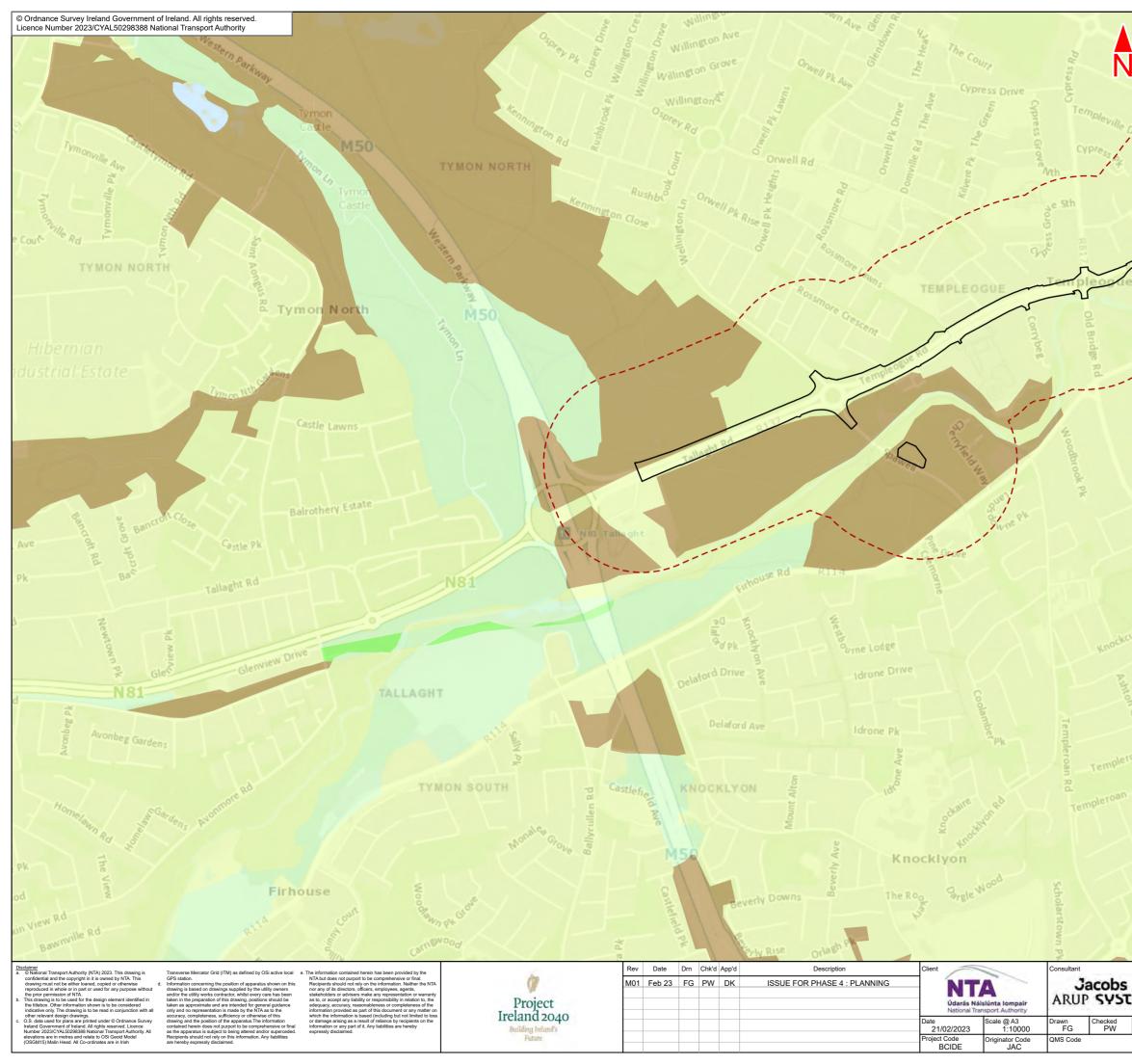


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### **14.15** Groundwater Recharge

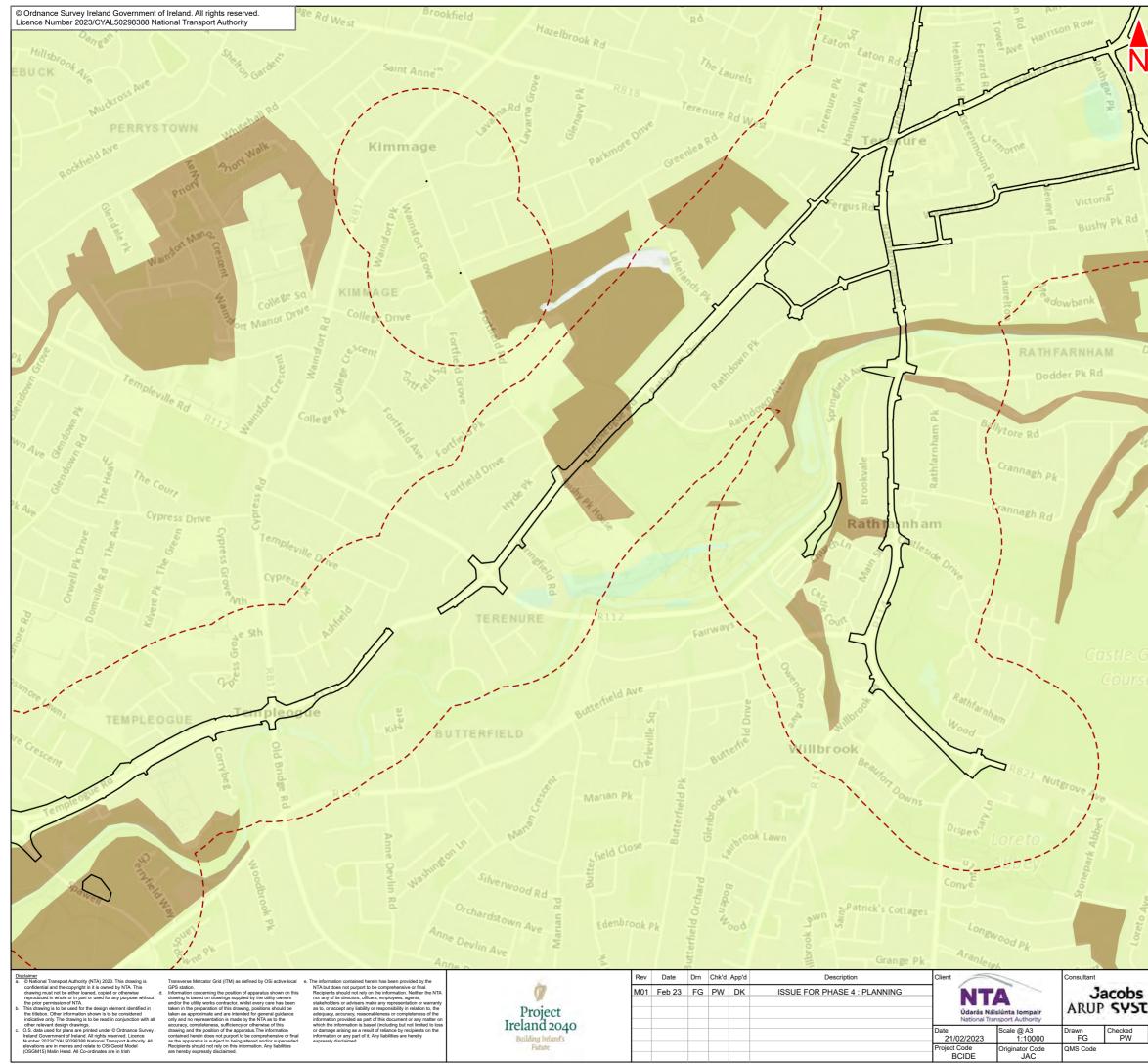




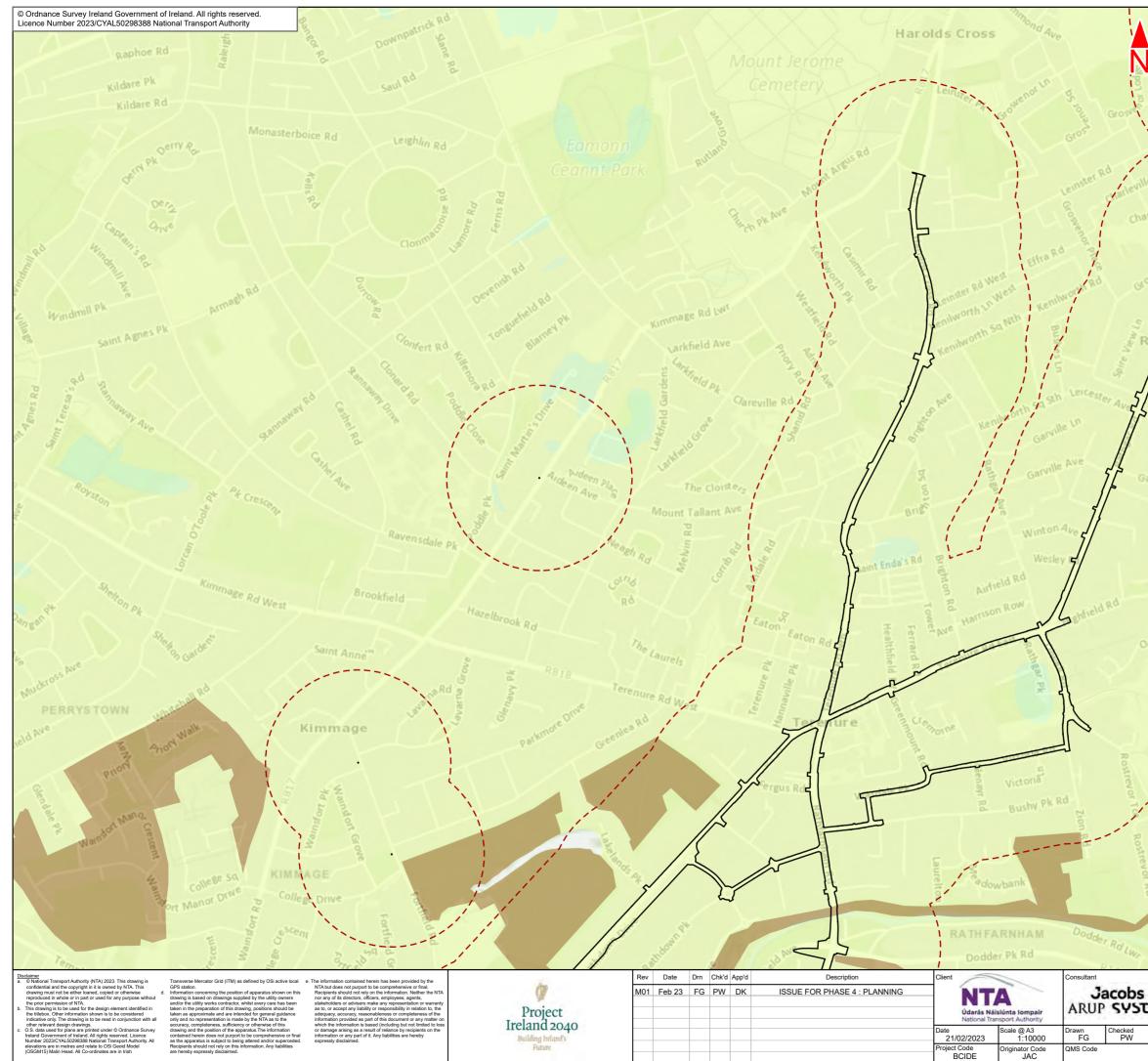


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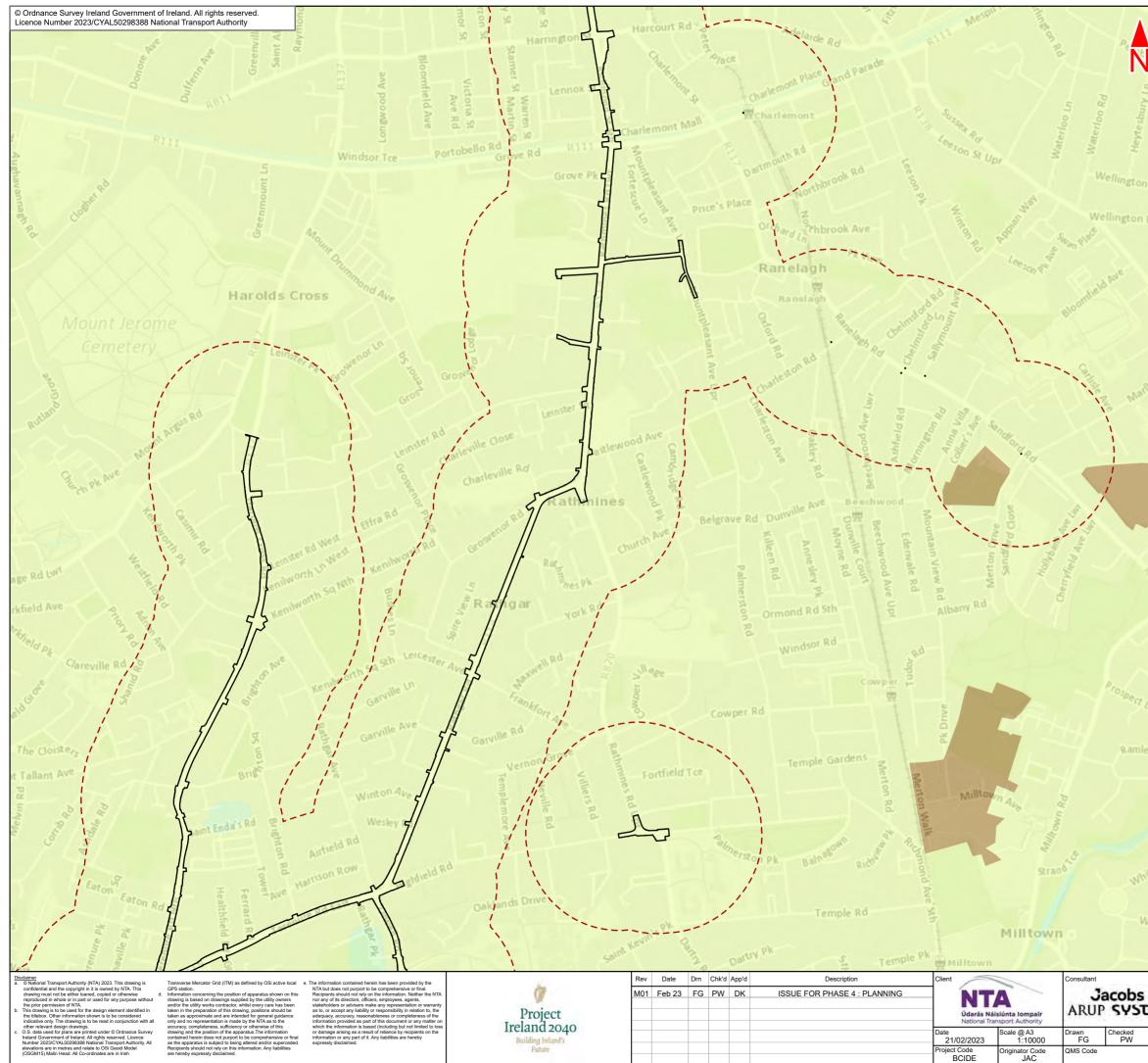
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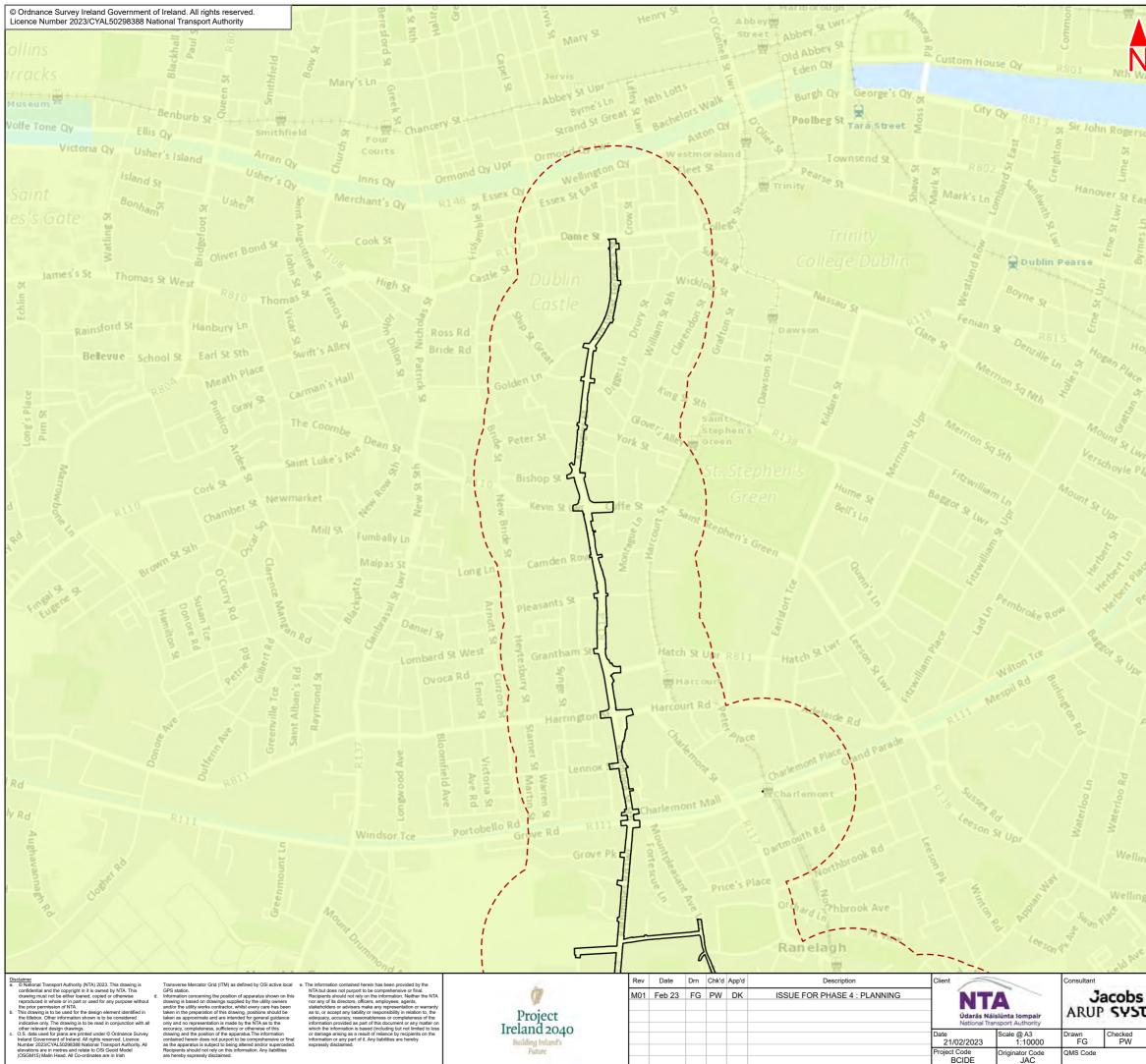
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gton Place	This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Contains Irish Public Sector Data licensed
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	0 0.1 0.2 0.3 0.4 0.5 km
5	BAR SCALE
	Programme Title BUSCONNECTS DUBLIN
Tro	CORE BUS CORRIDORS INFRASTRUCTURE WORKS Drawing Title
	Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 14.15
Approved DK	Groundwater Recharge Drawing File Name Sheet Number Status Rev
	BCIDE-JAC-ENV_GT-1012_XX_00-DR-GG-0905 5 of 5 A M01