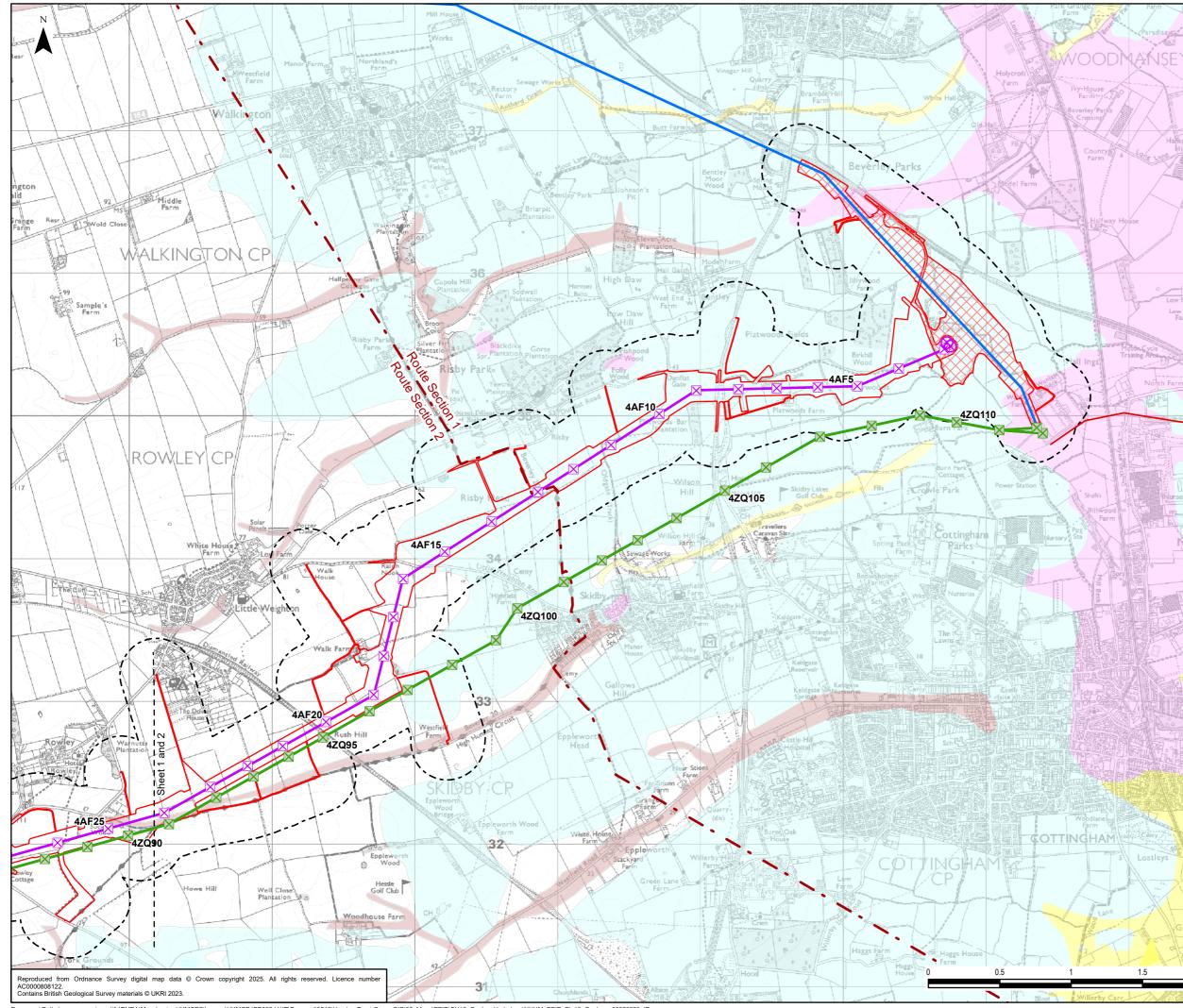
Preliminary Environmental Information Report

Volume 2: Chapter 12 Figures February 2025

The Great Grid Upgrade

North Humber to High Marnham



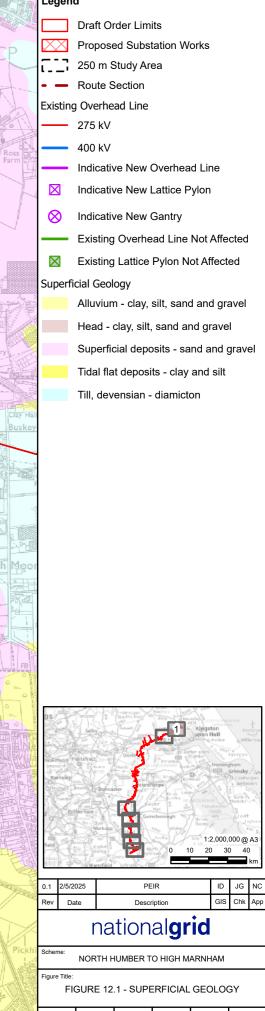


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

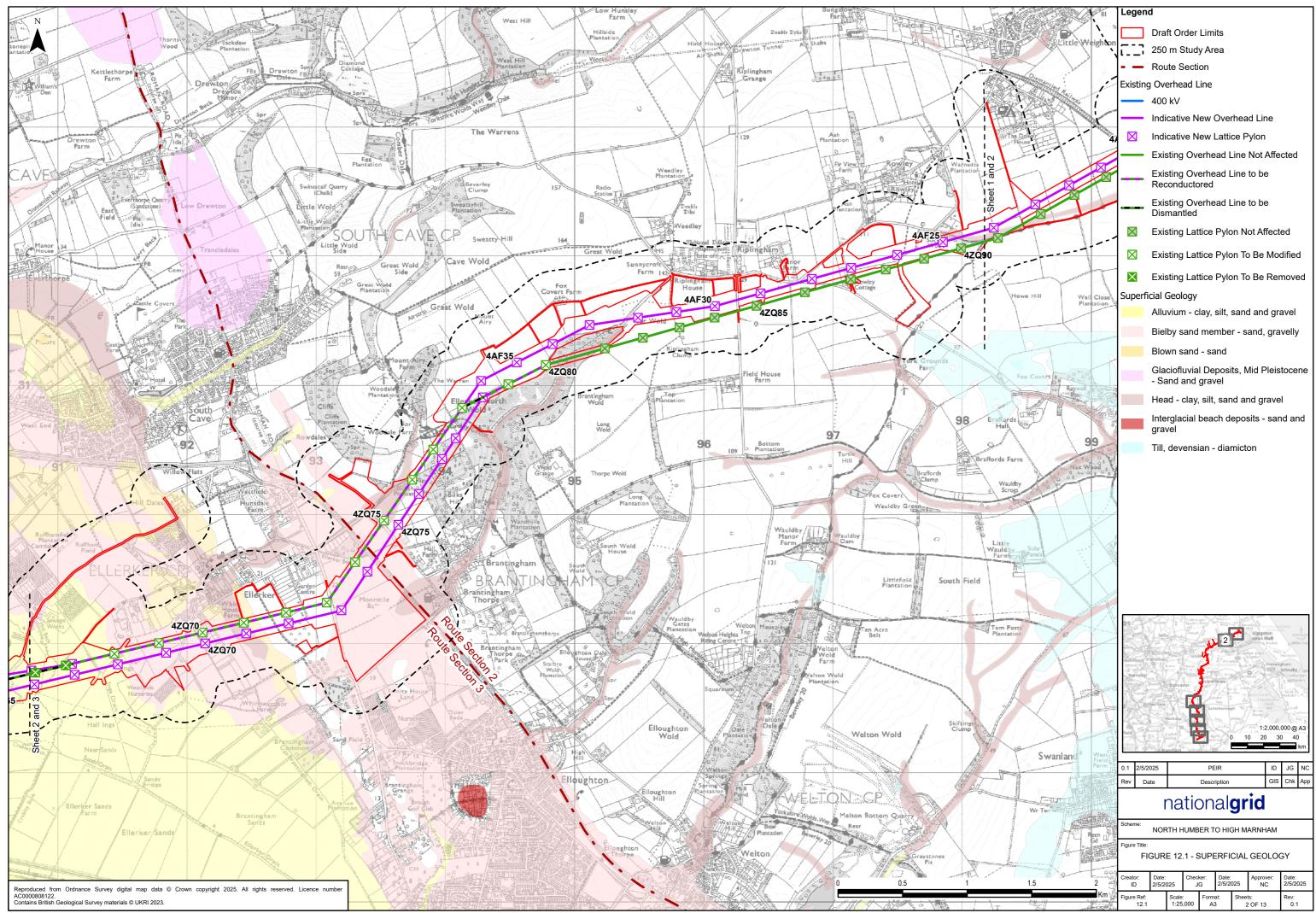




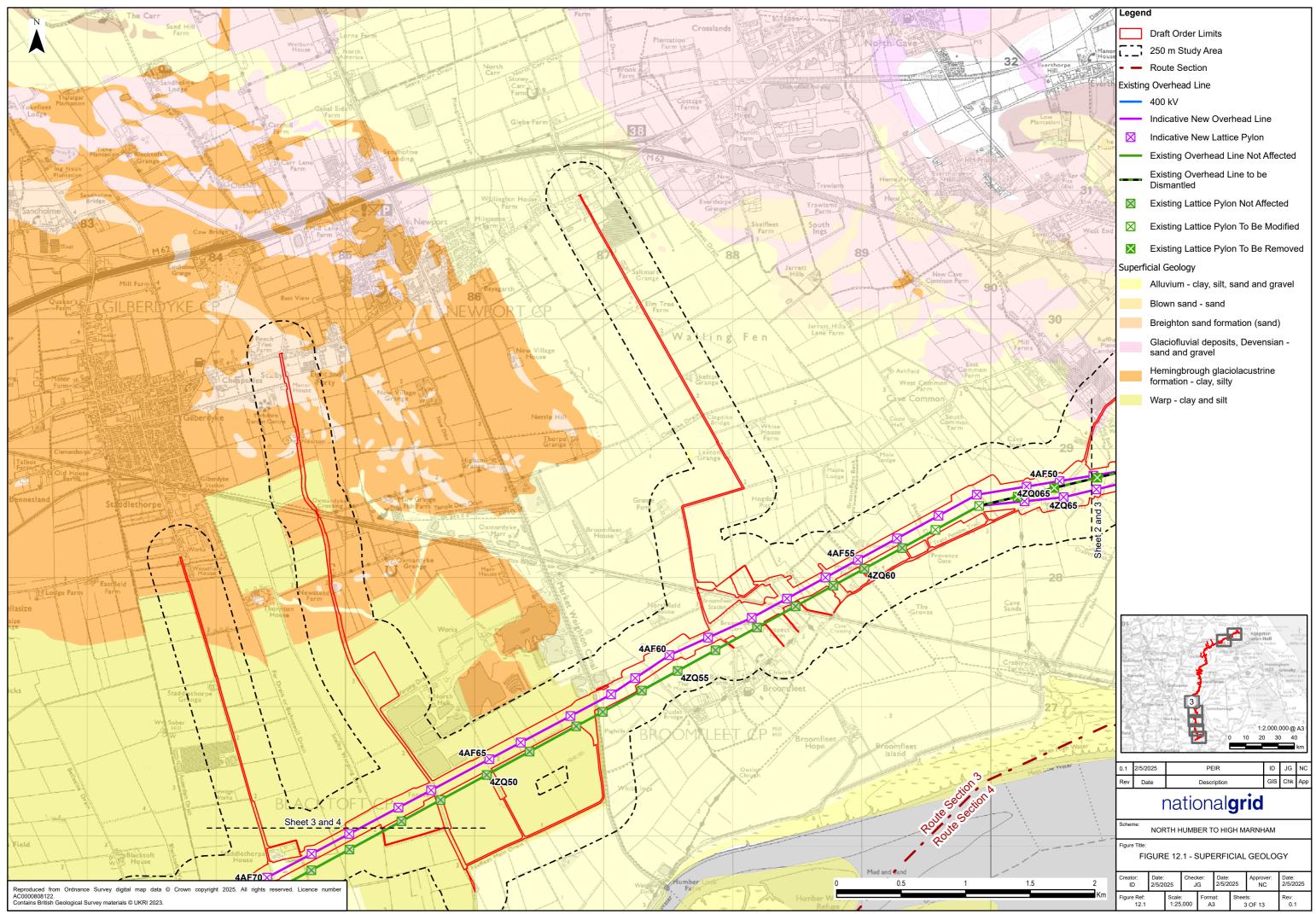
Low Barr Farm



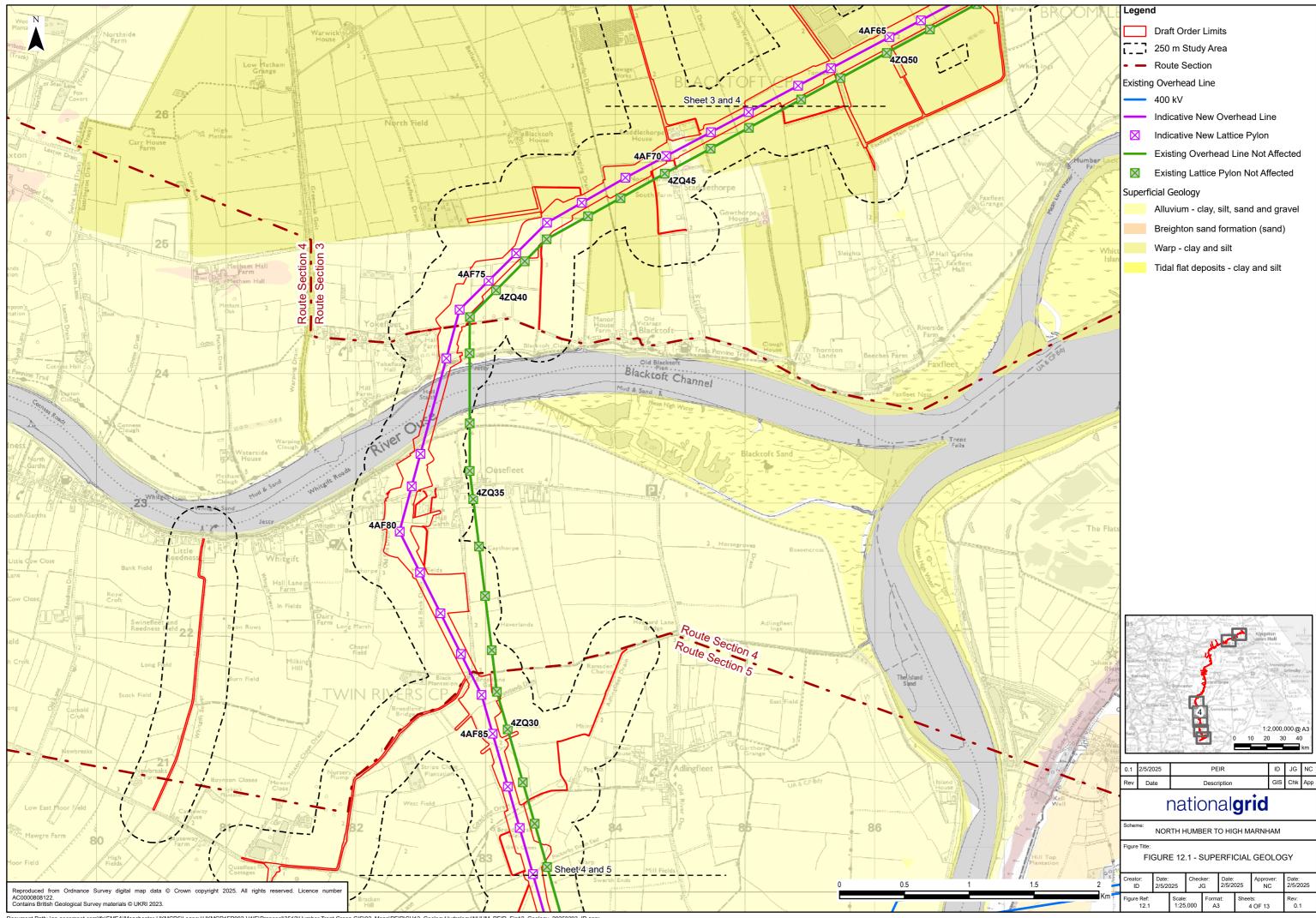
2 Km										
	Creator: ID	Date: 2/5/2025		Checker: JG		Date: 2/5/2025		Approver: NC	Date: 2/5/2025	
	Figure Ref: 12.1		Scale: 1:25,000		Format: A3		Sheets: 1 OF 13		Rev: 0.1	

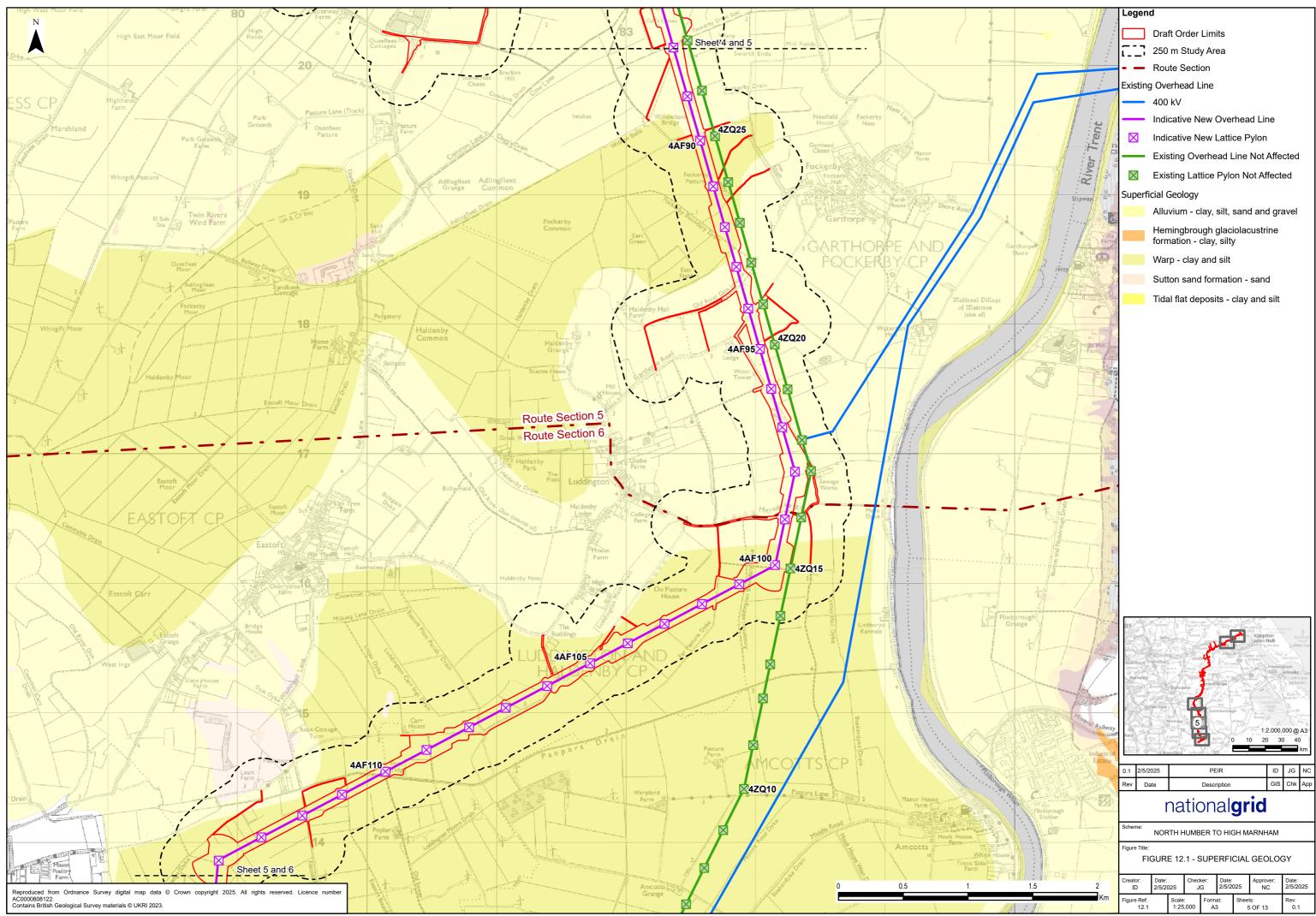


Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

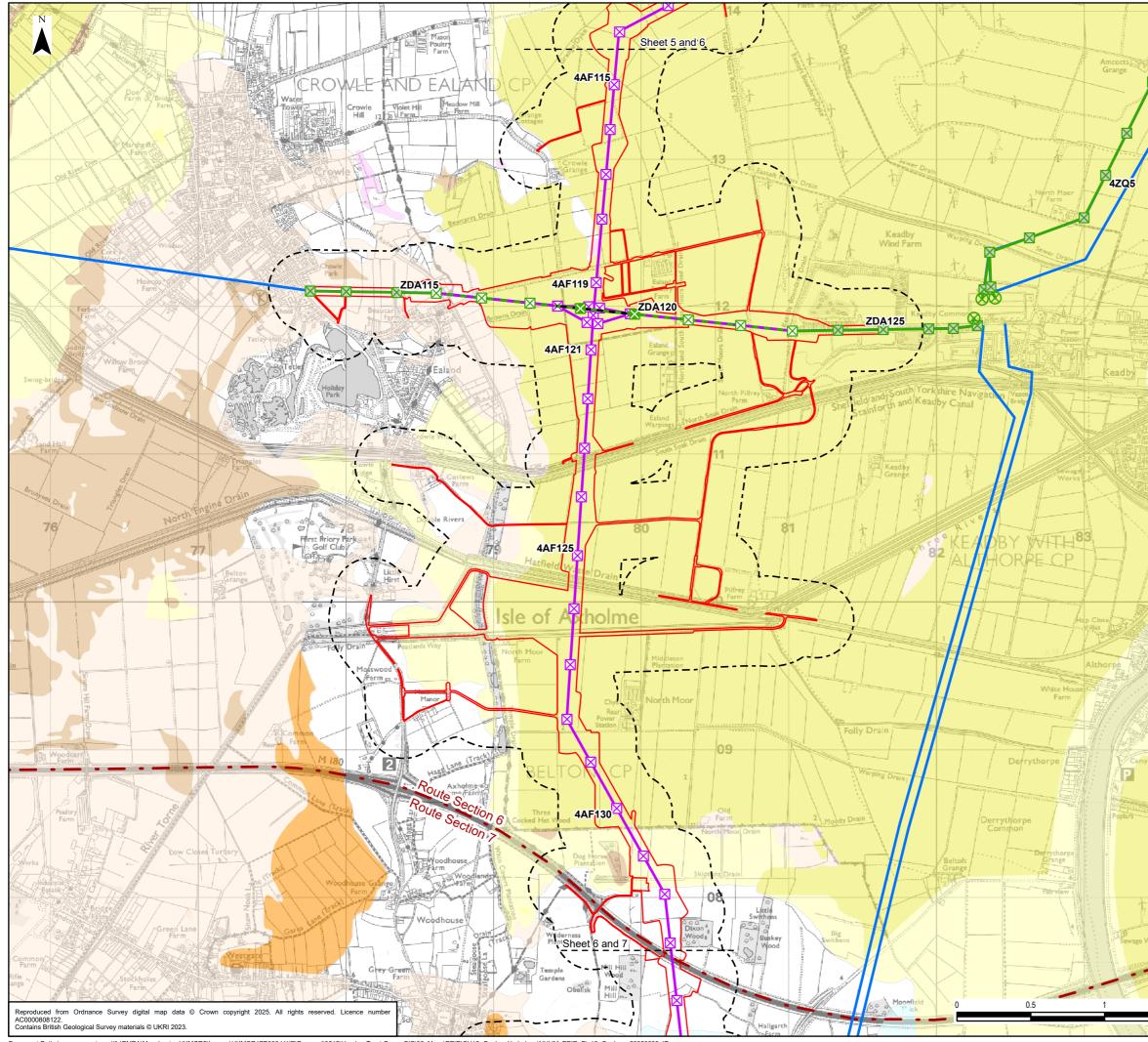


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx



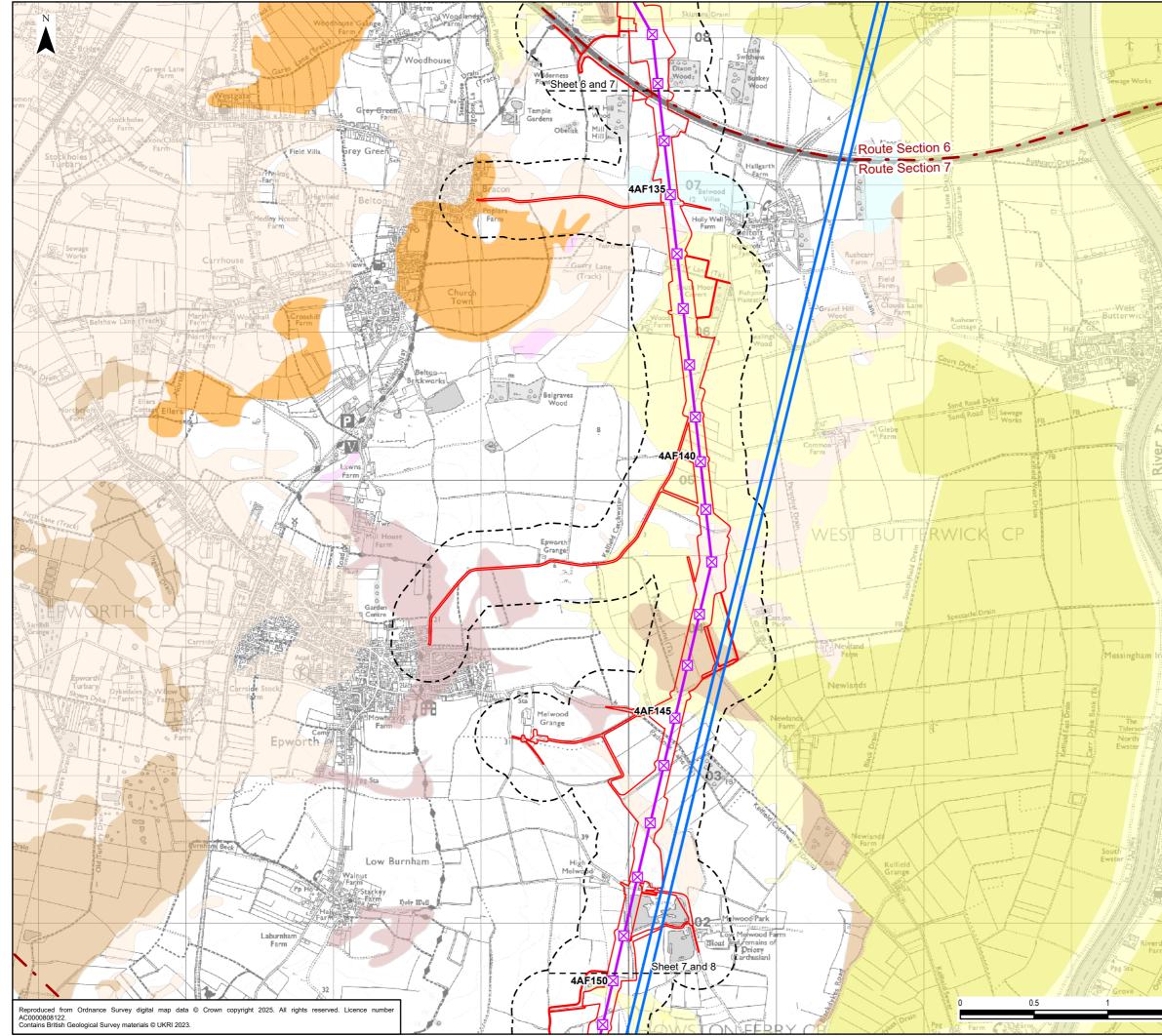


Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-\/11E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx



Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

192 ⁰	Legend								
		Draft Order Limits							
		250 m Study Area							
	· ·	Route Section							
	Evicting	Overhead Line							
	LXISUII	400 kV							
		Indicative New Overhead Line							
	\boxtimes	Indicative New Lattice Pylon							
		Existing Overhead Line Not Affected							
		Existing Overhead Line to be Reconductored							
		Existing Overhead Line to be Dismantled							
Sewage &	\mathbf{X}	Existing Lattice Pylon Not Affected							
1 1 1	\boxtimes	Existing Lattice Pylon To Be Modified							
***	\otimes	Existing Gantry Not Affected							
R	Existing Lattice Pylon To Be Removed								
	Superficial Geology								
ness		Alluvium - clay, silt, sand and gravel							
		Glaciofluvial deposits, Devensian - sand and gravel							
		Hemingbrough glaciolacustrine formation - clay, silty							
		Warp - clay and silt							
inness)									
<u>A LA</u>	Peat - peat								
		Sutton sand formation - sand							
		Till, mid pleistocene - diamicton							
1 : 虚									
//P									
E E									
I.									
ingham									
Caraceses	DS	2022 Statts Korr S							
		Setby Setby Reads and Sector S							
a a a a a a a a a a a a a a a a a a a	Wakefield	antefract Coolever							
North	Barnsley	That's Series of International Control of the Series of							
Dyke	Cill Hostard	Bentin Concaster Control And C							
5		therman Jack Gainsberough Arman Albert							
	oDrohled	Number August Au							
	field	0 10 20 30 40							
	REP. Manufald chroten and km								
1	0.1 2/5/2 Rev Da								
	national grid								
M	Scheme: Figure Title:	NORTH HUMBER TO HIGH MARNHAM							
Burringha	-	GURE 12.1 - SUPERFICIAL GEOLOGY							
South Grav	Creator: ID	Date: Checker: Date: Approver: Date: 2/5/2025 JG 2/5/2025 NC 2/5/2025							
Km	Figure Ref: 12.1	Scale: Format: Sheets: Rev: 1:25,000 A3 6 OF 13 0.1							



Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V11E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx





Existing Overhead Line

400 kV

Indicative New Overhead Line

Indicative New Lattice Pylon

Superficial Geology

Alluvium - clay, silt, sand and gravel

Glaciofluvial deposits, Devensian -sand and gravel

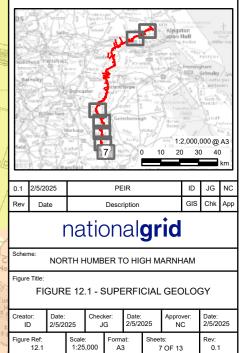
Head - clay, silt, sand and gravel

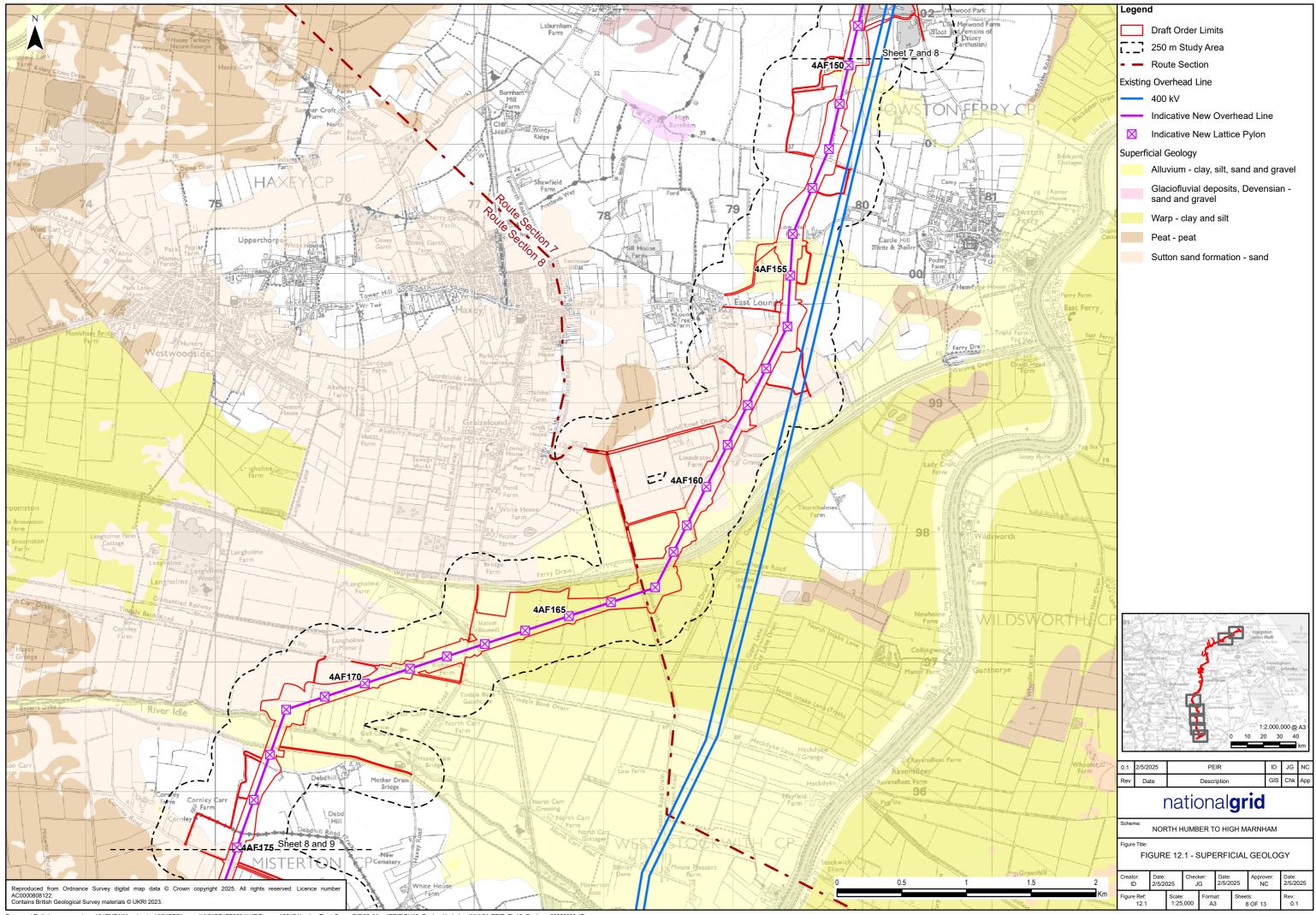
Hemingbrough glaciolacustrine formation - clay, silty

Warp - clay and silt

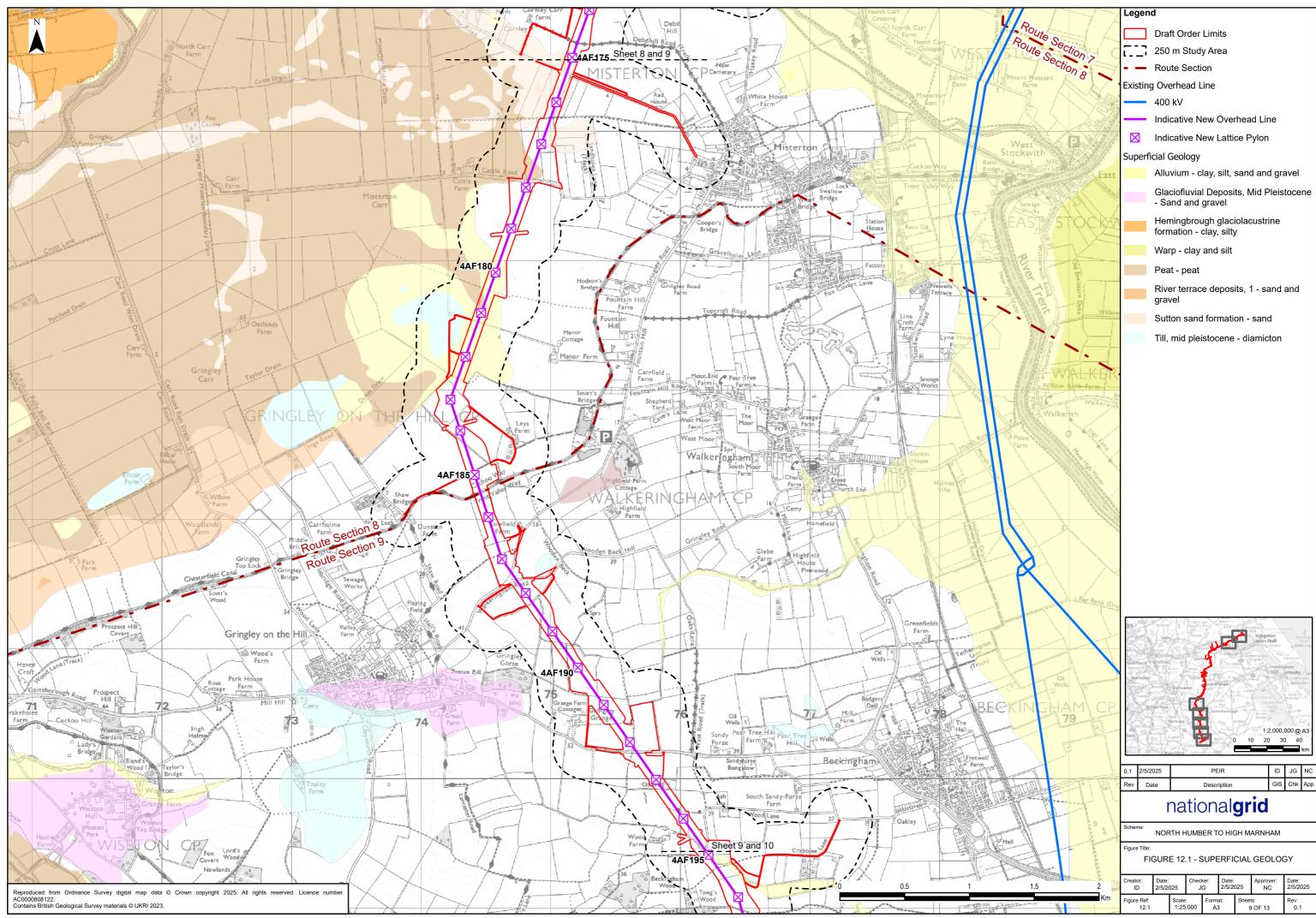
Peat - peat

- Sutton sand formation sand
- Till, mid pleistocene diamicton

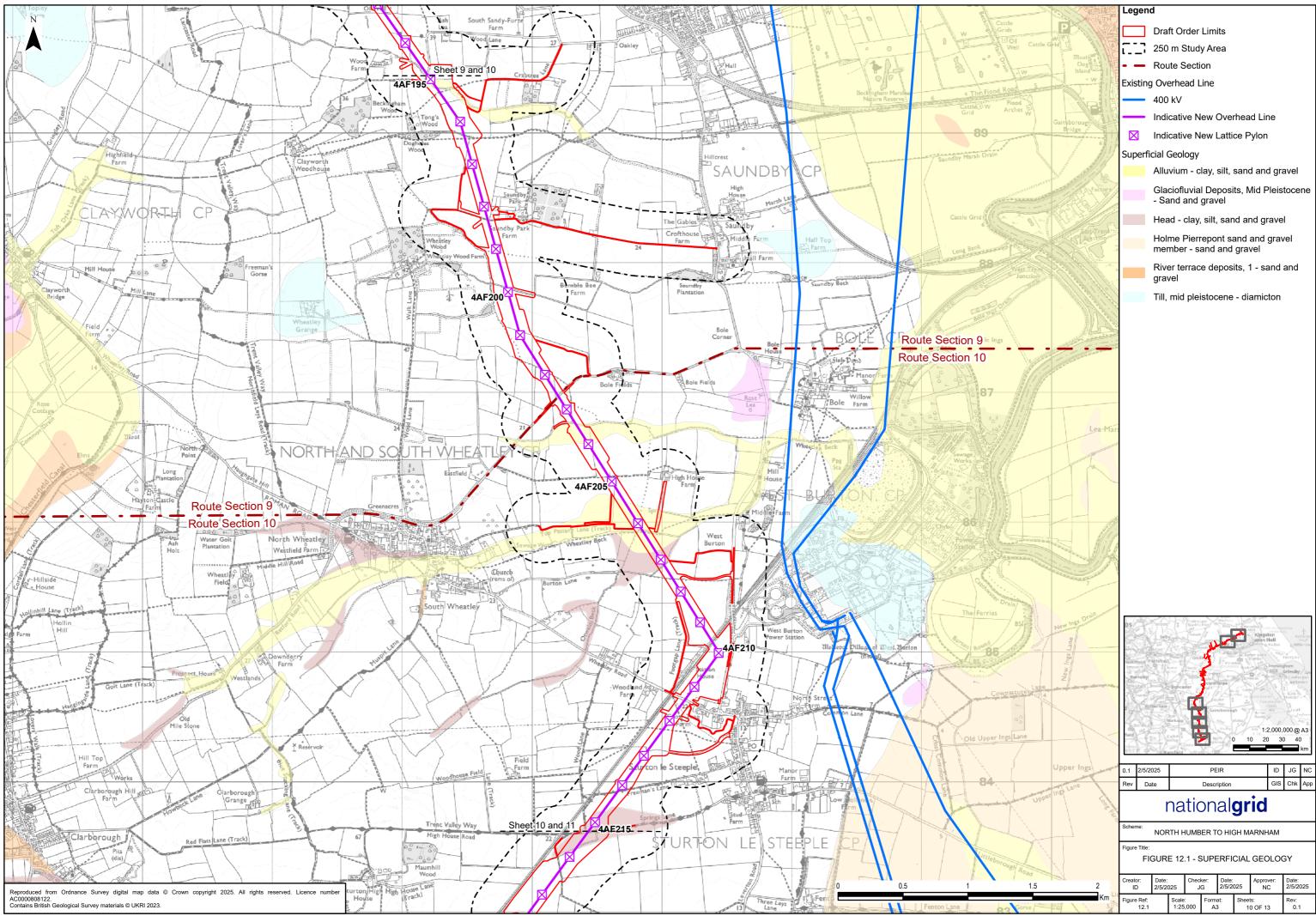




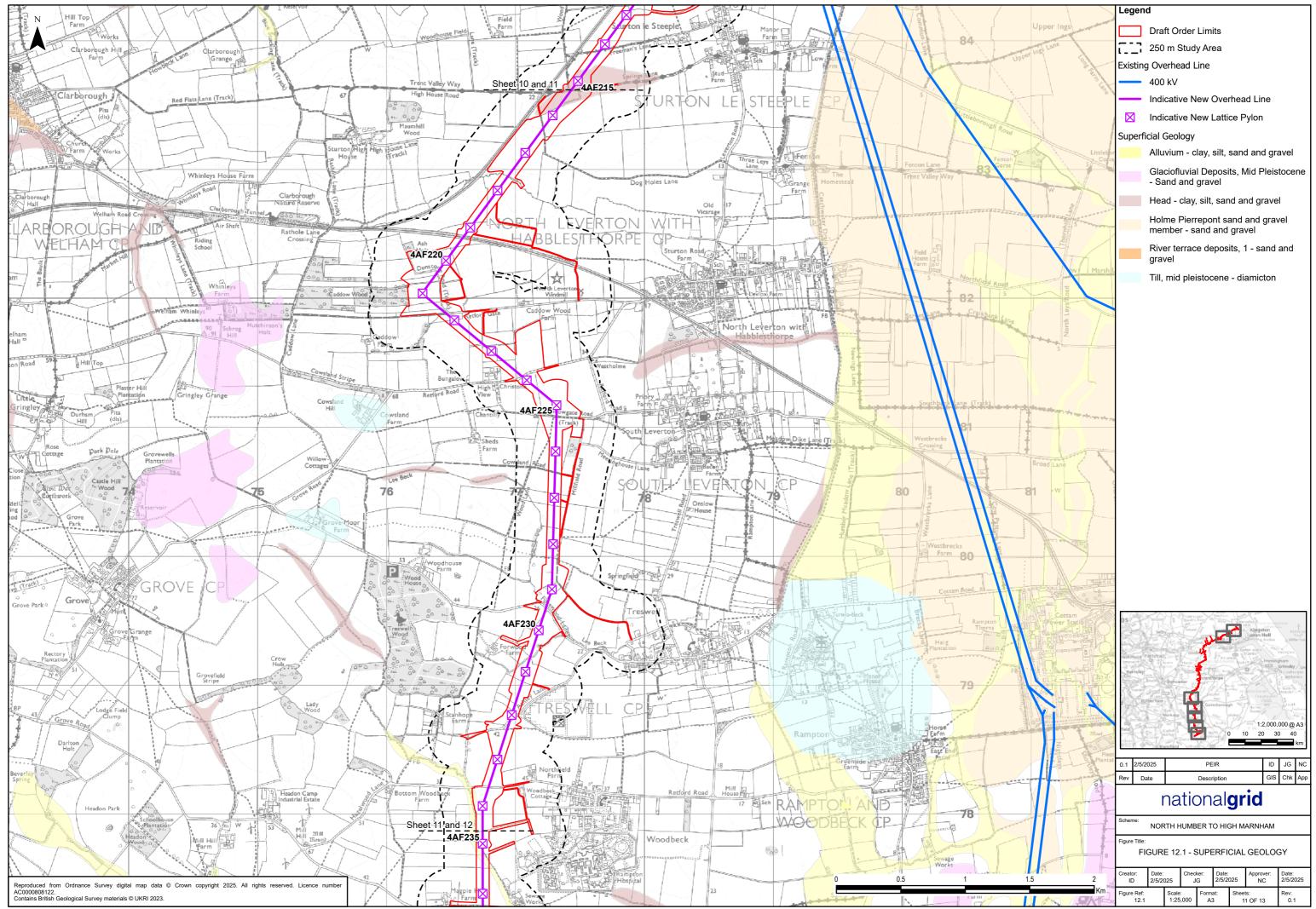
Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V11E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_Geology\Hydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx



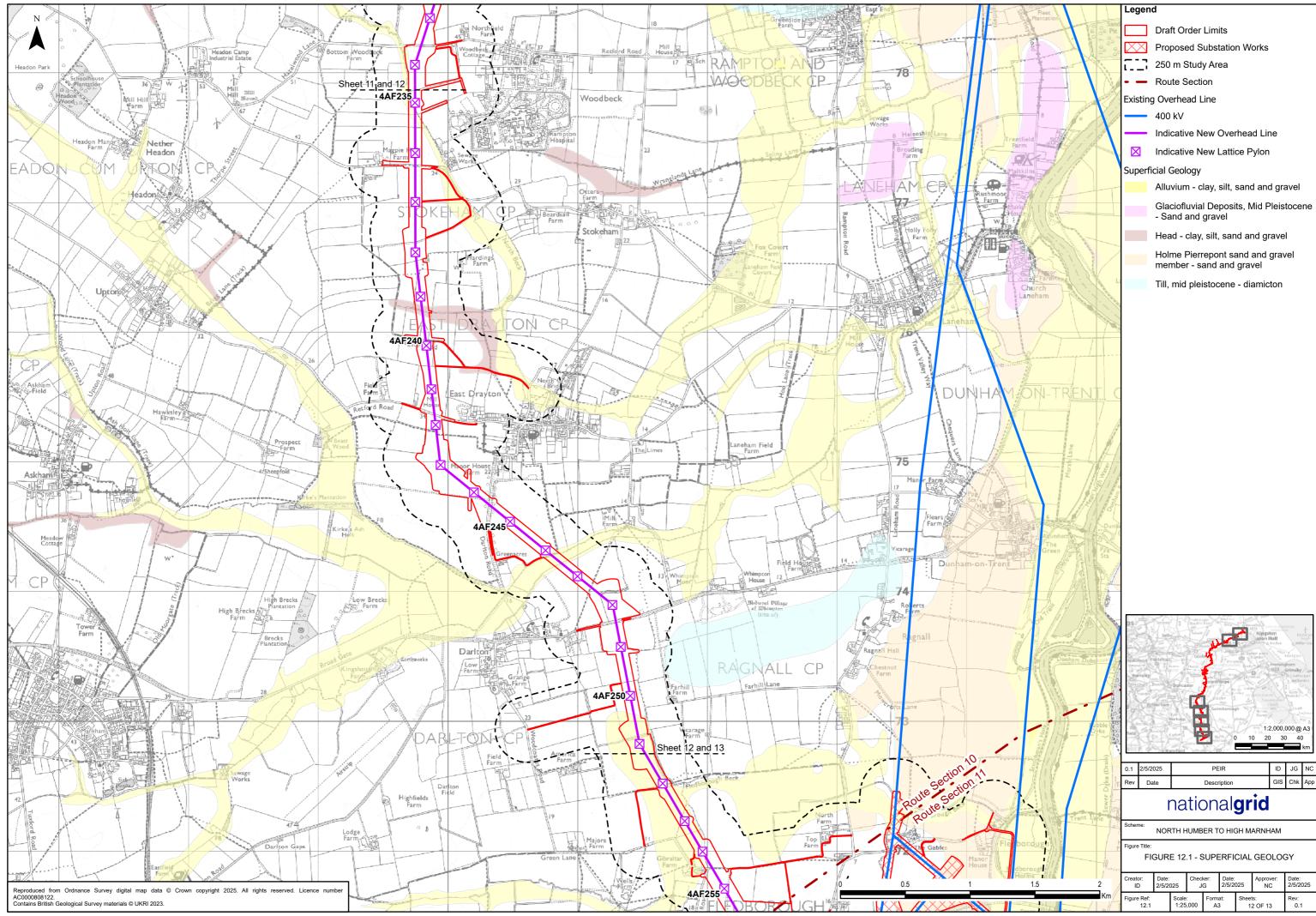


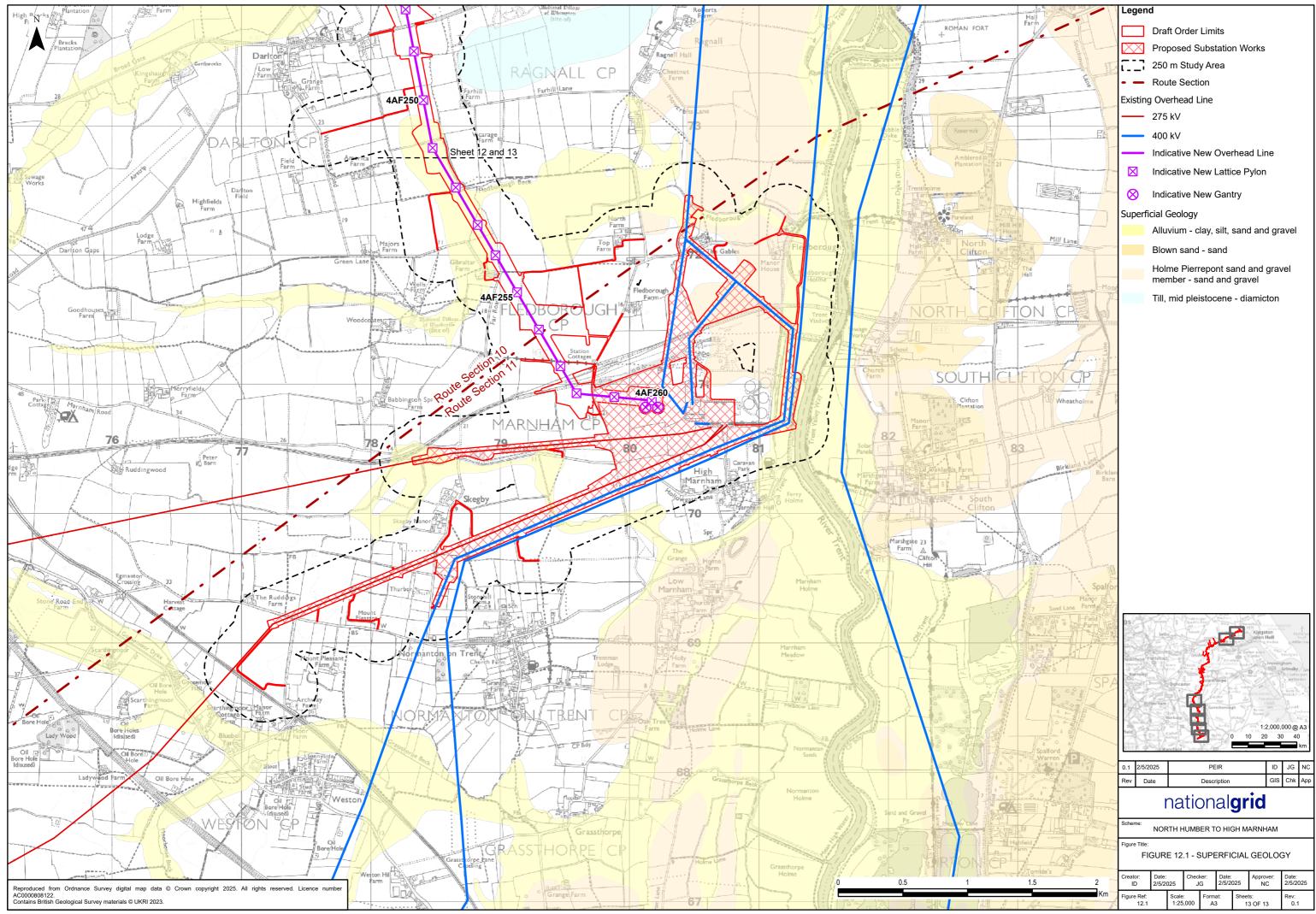


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V11E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

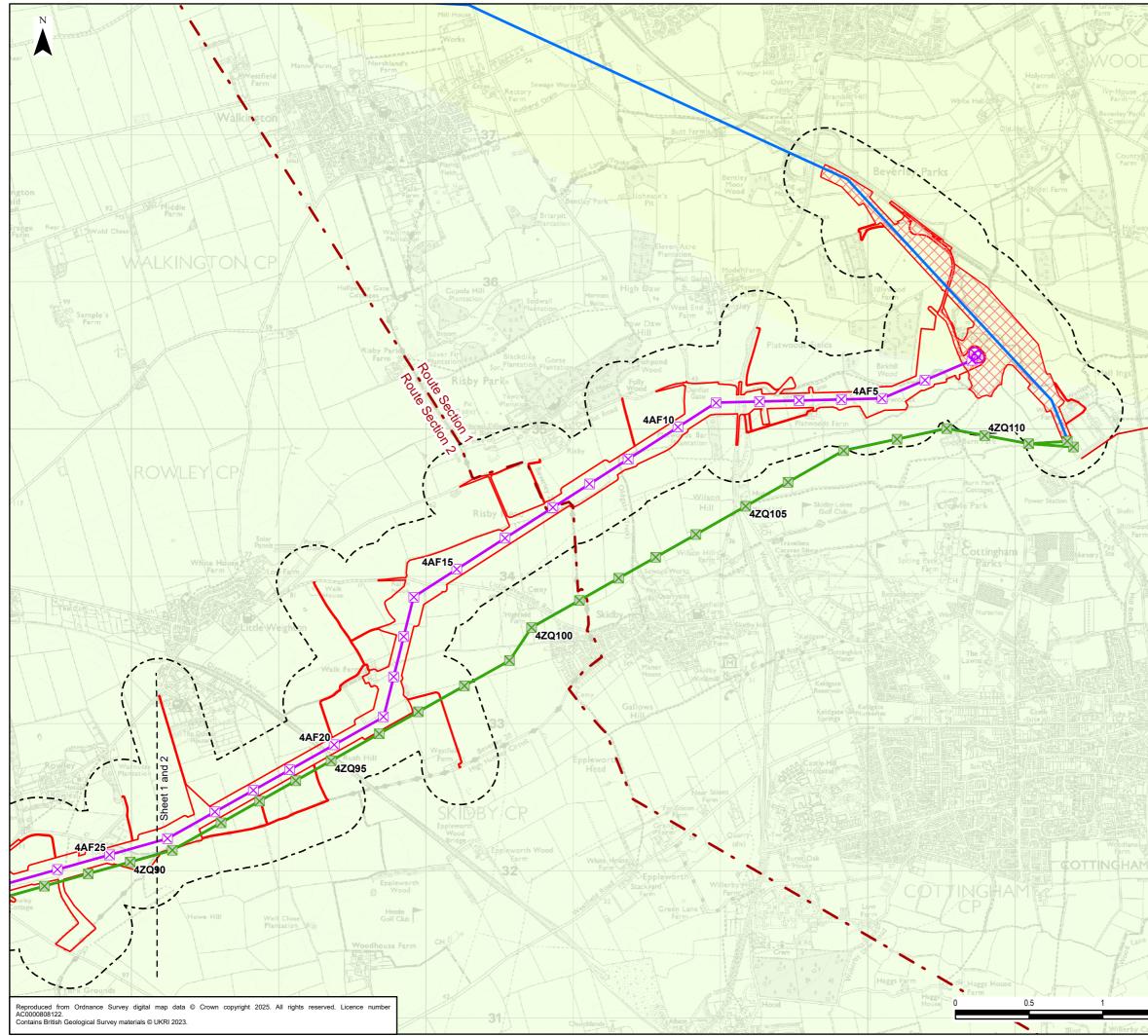


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx



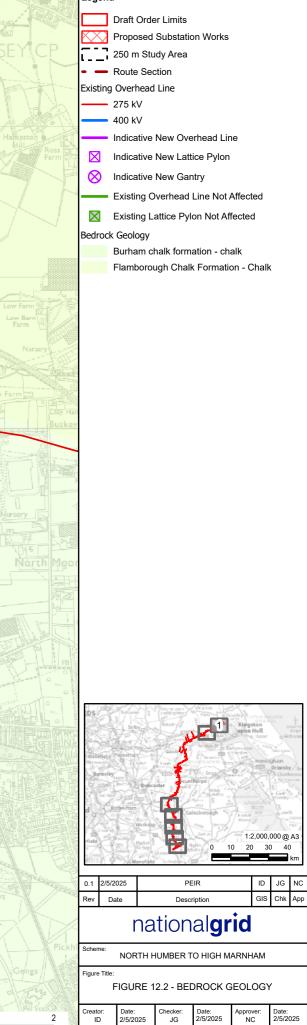


Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx



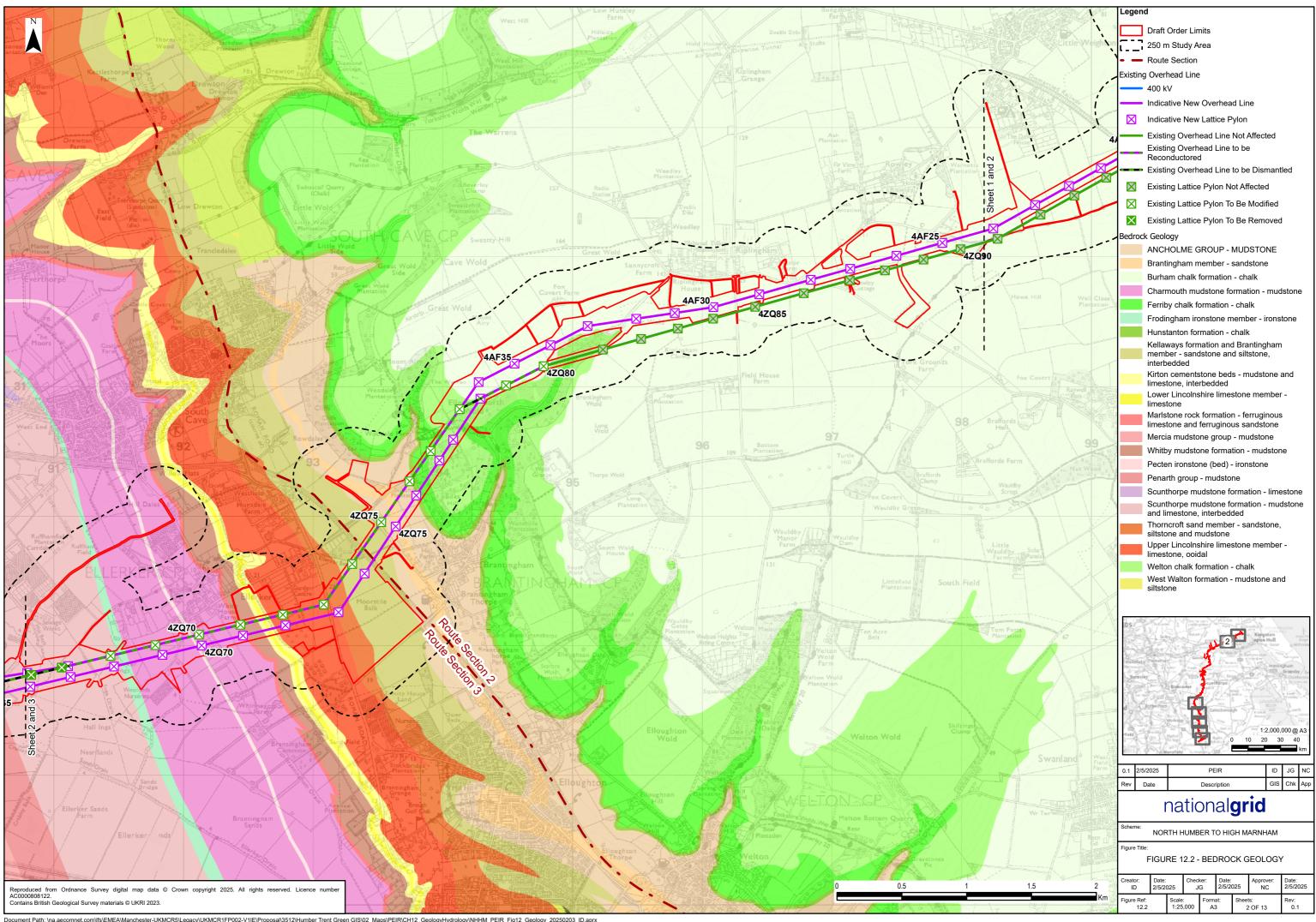
Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-\/11E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

Legend

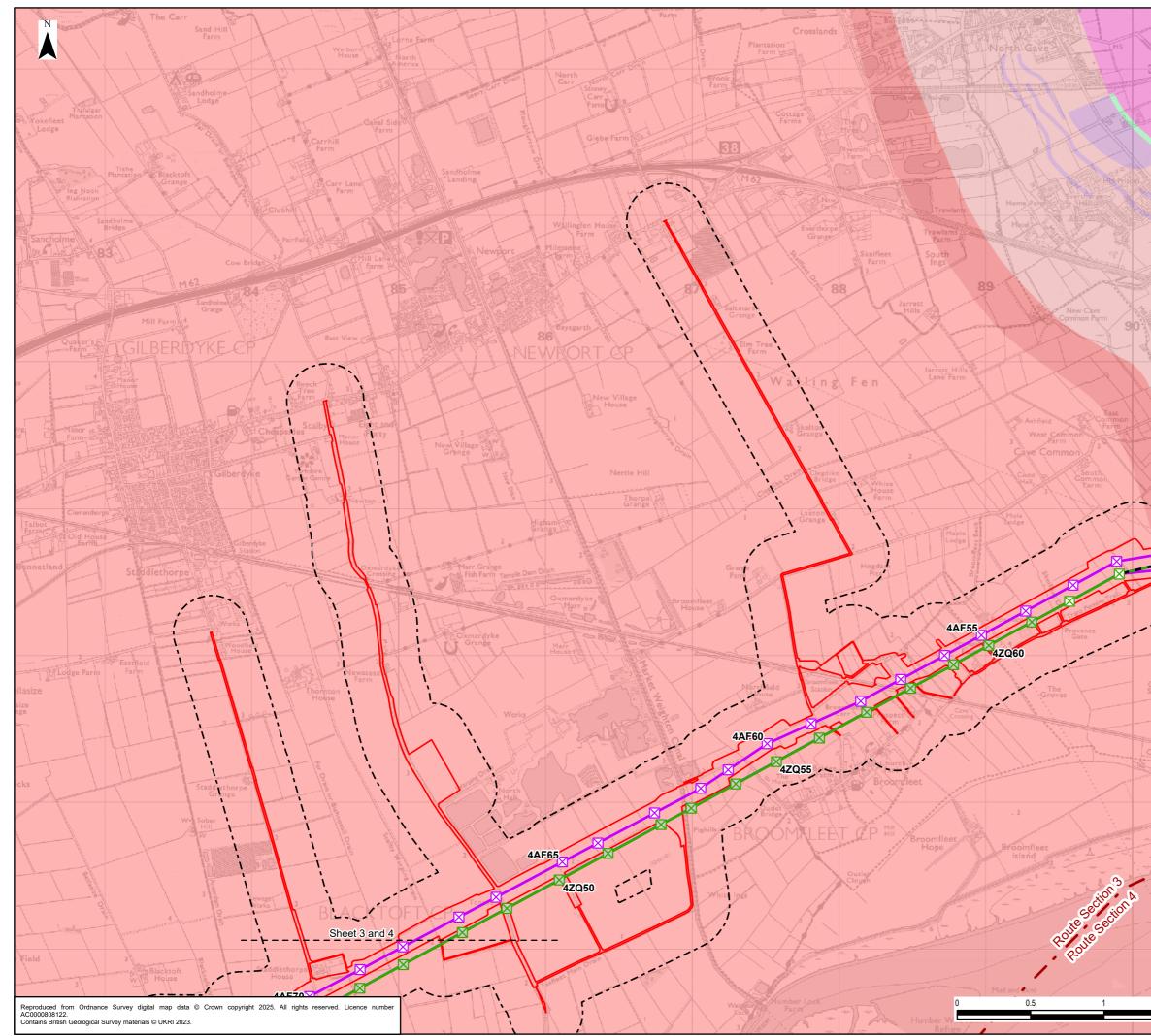


2 ID 2/5/2025 JG 2/ Figure Ref: Scale: 1:25,000 Format: 12.2 1:25,000 A3

Sheets: 1 OF 13 ev: 0.1



Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

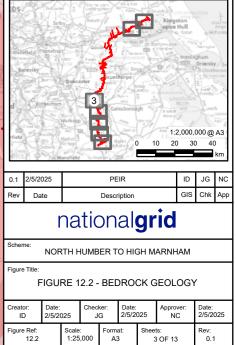


Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-\/11E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

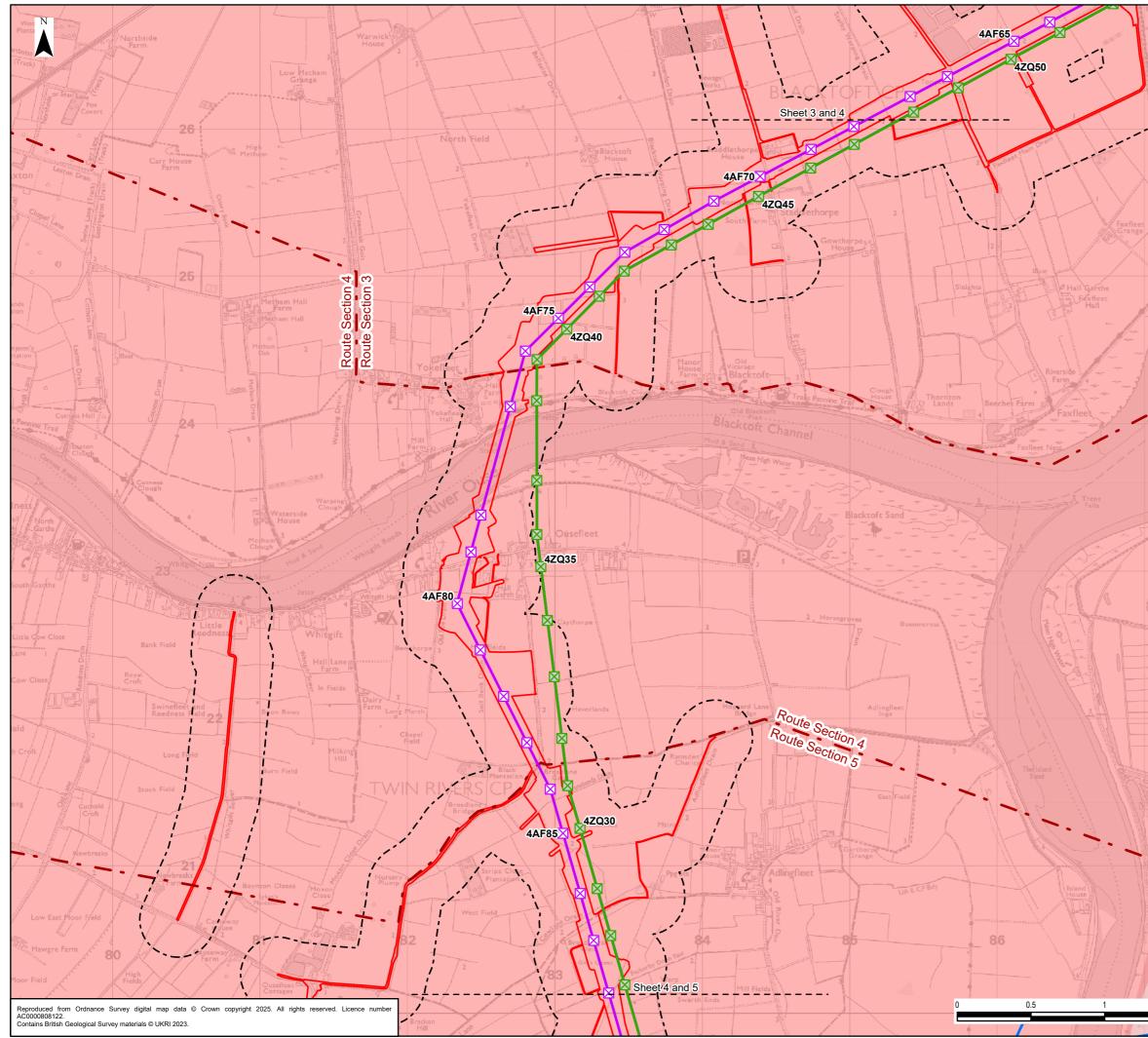










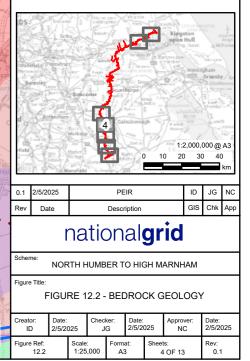


Legend

	Draft Order Limits
623	250 m Study Area
	Route Section
Existing	9 Overhead Line
—	400 kV
—	Indicative New Overhead Line
\boxtimes	Indicative New Lattice Pylon
	Existing Overhead Line Not Affected
\bowtie	Existing Lattice Pylon Not Affected

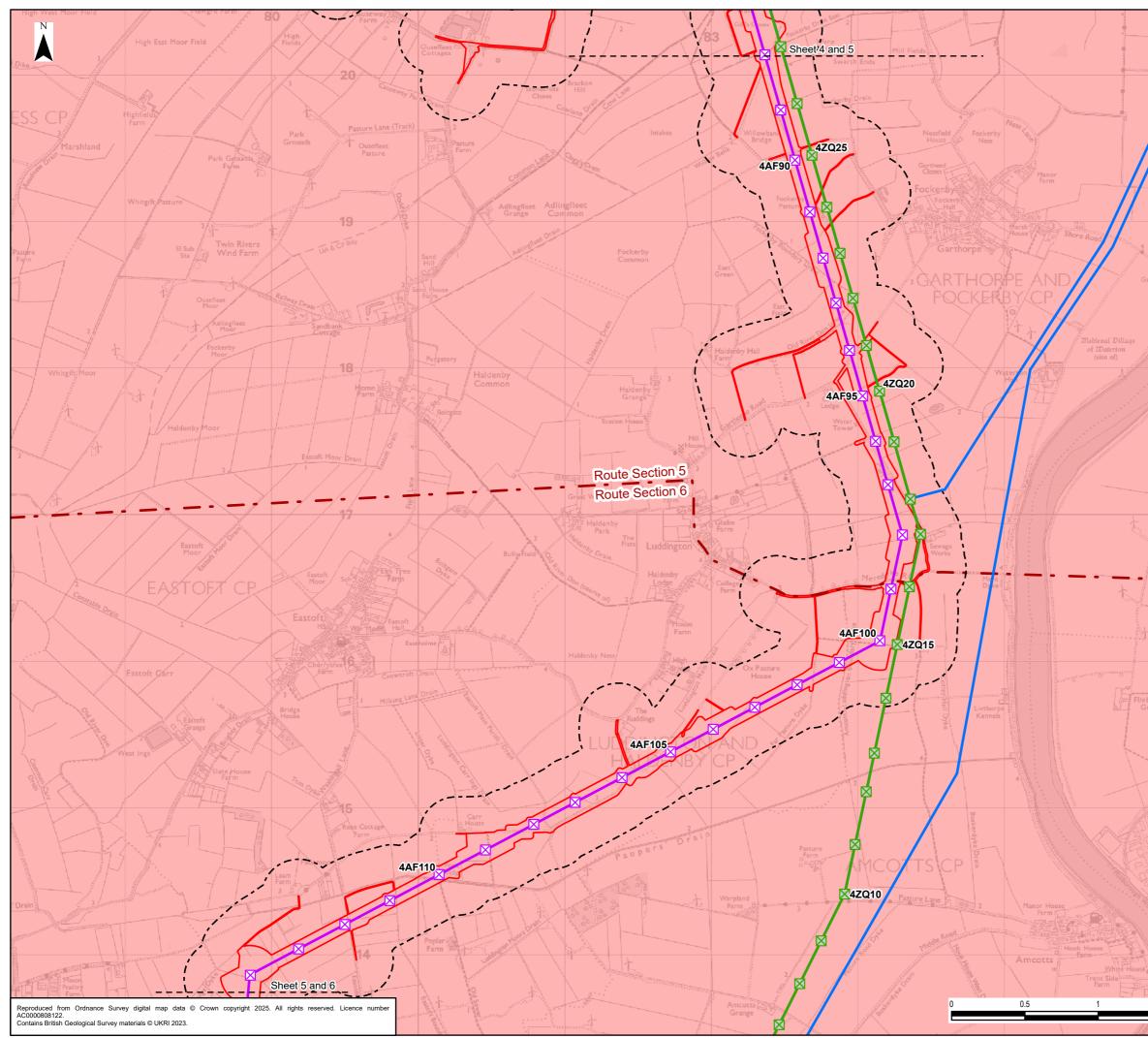
Bedrock Geology

Mercia mudstone group - mudstone
Scunthorpe mudstone formation - limestone



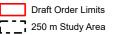
1.5

2



Legend







Existing Overhead Line

400 kV

Indicative New Overhead Line

Indicative New Lattice Pylon

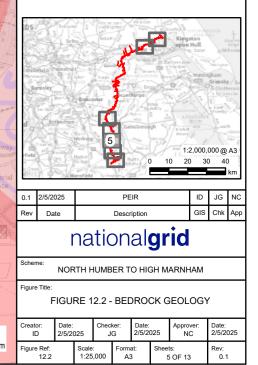
Existing Overhead Line Not Affected

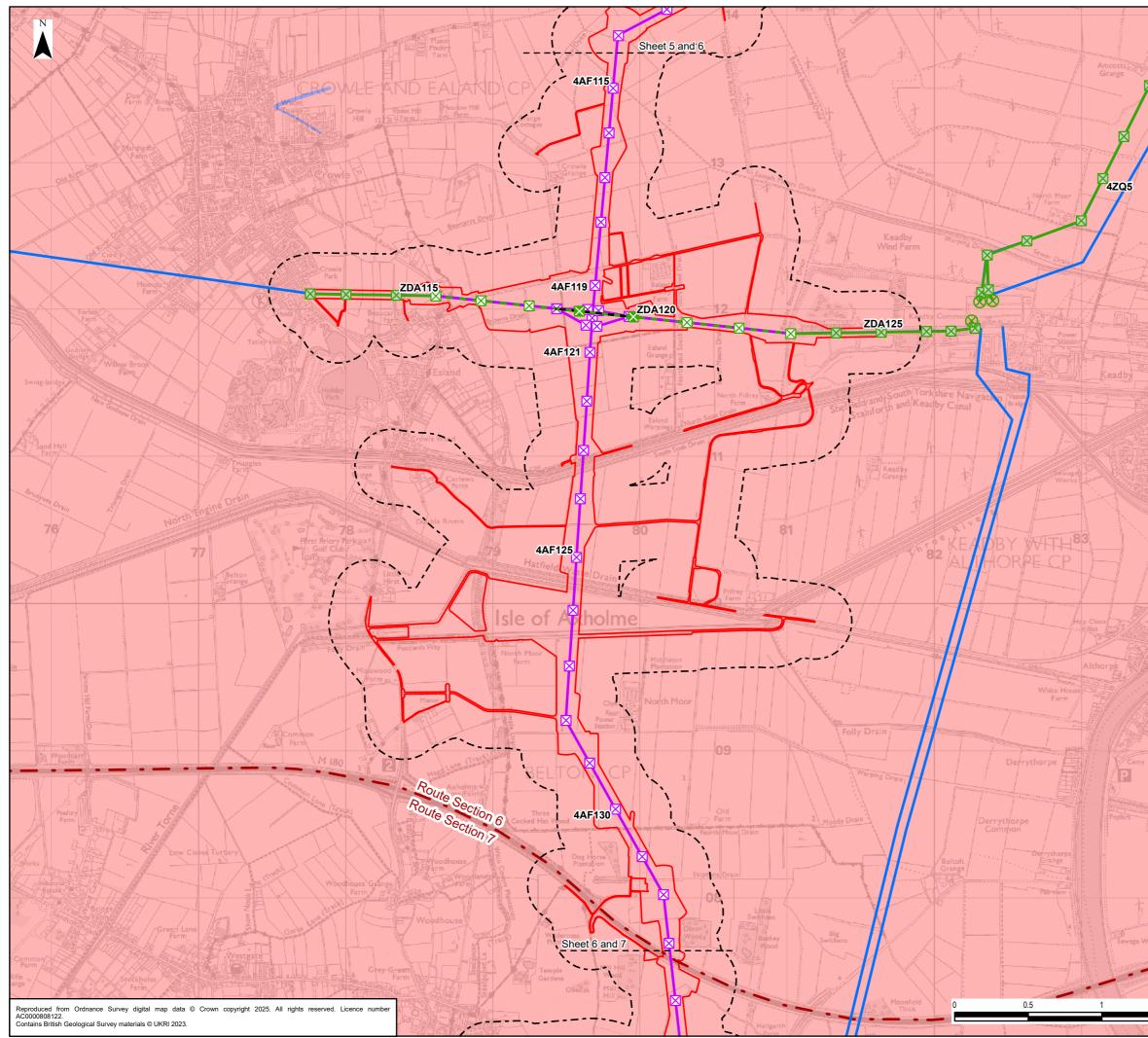
Existing Lattice Pylon Not Affected

Bedrock Geology

Mercia mudstone group - mudstone

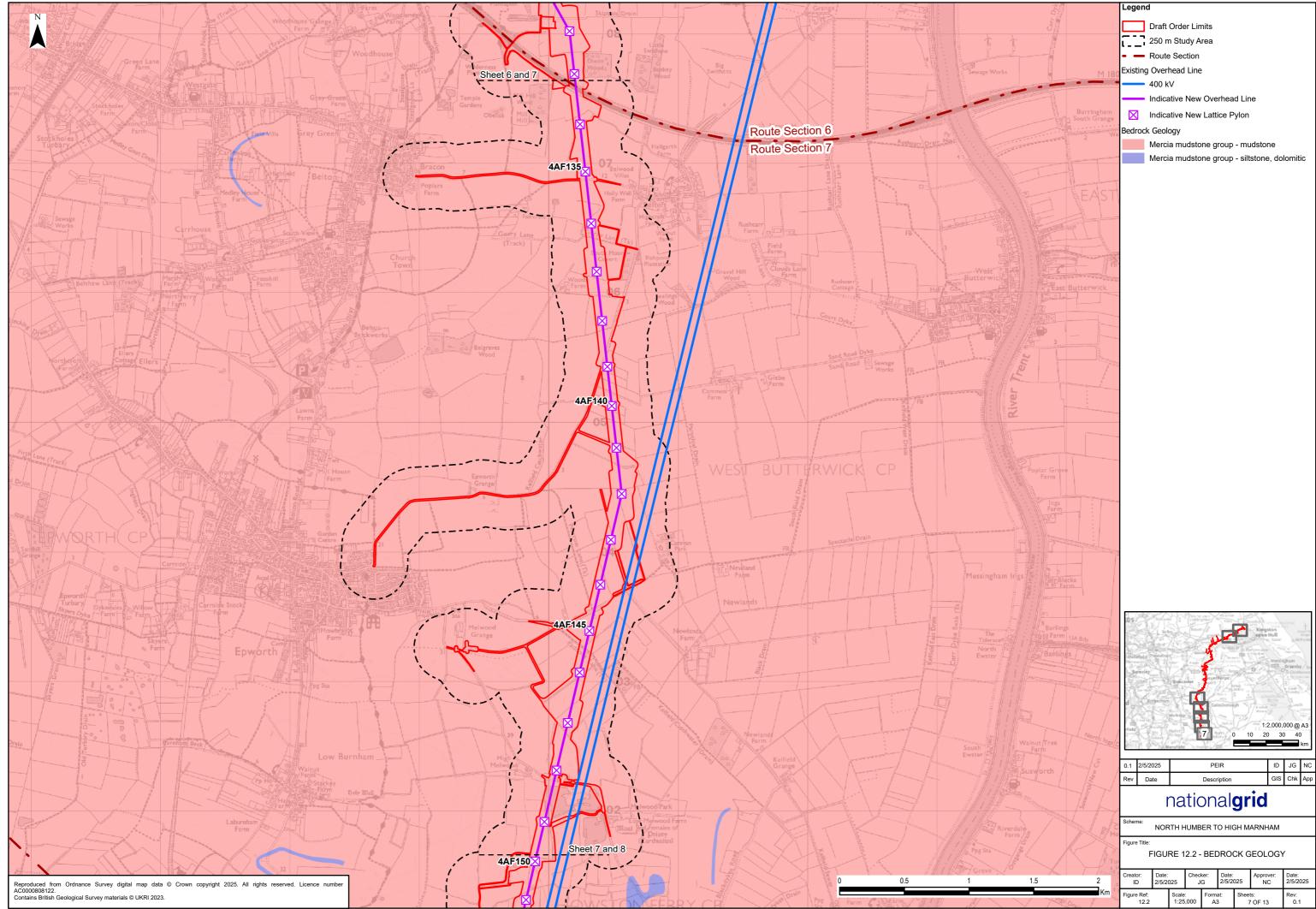
Scunthorpe mudstone formation - limestone Scunthorpe mudstone formation - mudstone and limestone, interbedded

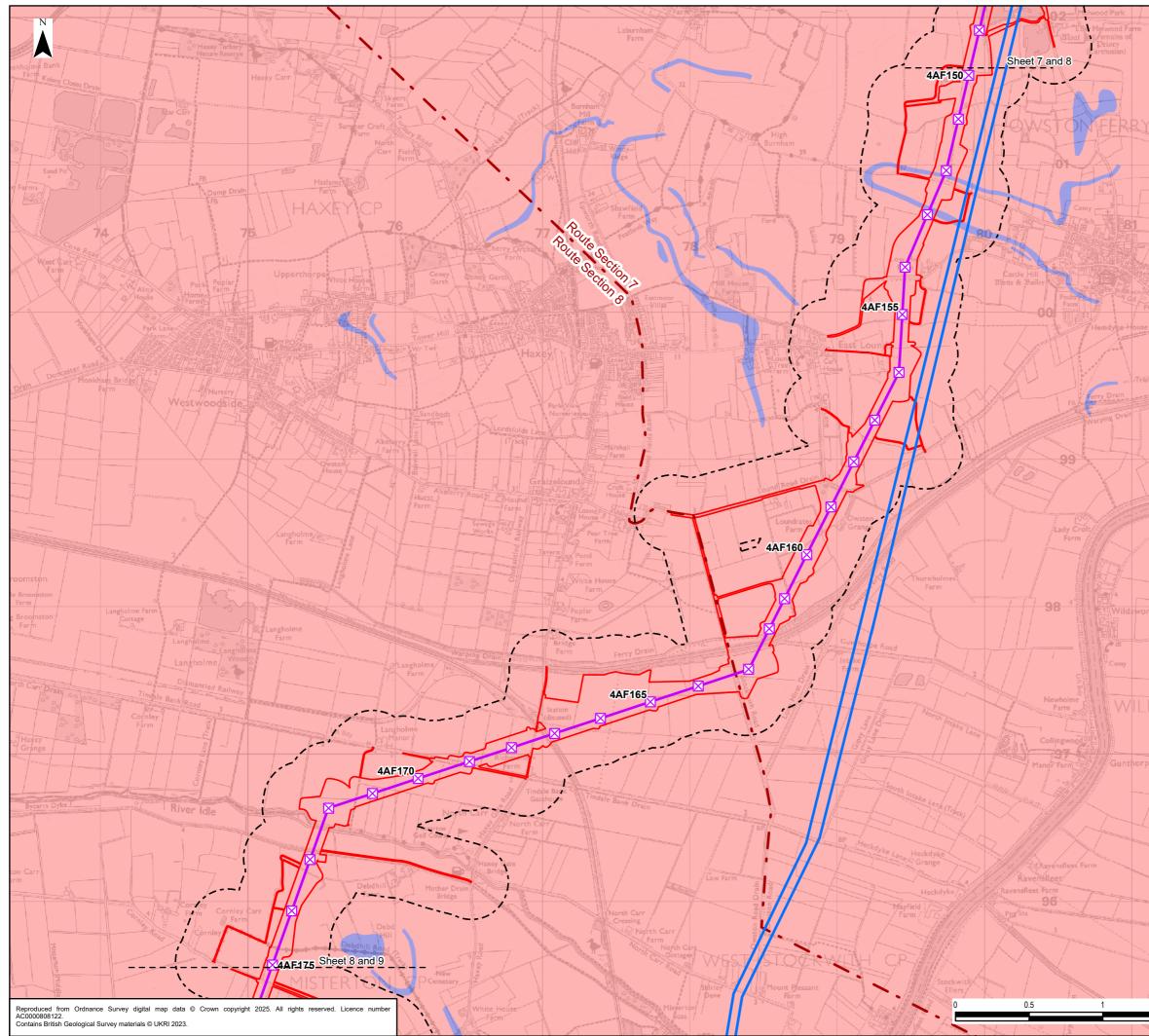




Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V11E\Proposal3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

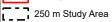
⁹⁷	Legen	d								
		Draft	Order Lir	nits						
12	<u></u>	250 n	n Study A	rea						
1 sterer		Route	e Section							
×°	Existing	g Over	head Line	2						
		400 k	Υ							
		Indica	ative New	/ Over	hea	d Lir	ne			
		Indica	ative New	Lattic	ce P	vlon				
J.M.			ing Overh					tod		
4 - A			ing Overh					leu		
111			nductore							
- //K@		Existi	ing Overh	lead L	.ine	to be	e Disr	mant	led	
$\parallel $	\mathbf{X}	Existi	ing Lattice	e Pylo	n N	ot Af	fecte	d		
1	\boxtimes	Existi	ing Lattice	e Pylo	n To	b Be	Modi	fied		
	\otimes	Existi	ing Gantr	v Not	Affe	cted				
Sewage s	×		ing Lattice	-				oved		
WORKS &				ST yiu	11 10	De	Rem	oveu		
****	Bedroc		ogy ia mudsto	no ar	aun	- mi	Ideto	no		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ia mudsto	-					lomit	ic
~		Merci		ne gi	oup	- 511	Storie	s, uo	IOIIIII	
PO										
ATTENT										
一個旗										
1 : 10										
广广										
No. E										
ham										
0	DS COR	Techarl			vie gritan	1 de				
		K	by an an an	Te		~	King	ston		+
		10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	X	لملح			-	lizzon	- Alle	term
the second of the second s	Wakefield Herswith	Pontefra	te Go	3	aire Infolis	-	-uriter Alla	tromin	gham	2
Nor	Barnel	ALLE D		弘	Dri	N.			Grimsby Cloth	1/ 5p
Dyke	Carlotter and Carlotter	E Ber - Sp un Sunt	Doncaster	17	Z	irin Cu Jadiry au			an Acrt	10.00
5	d	Rotherham		Gala	AD1 sboroe	igh V		coltanirs Wolds Acut	Lout	h
	As		By The By	- A-	01230	min/s	Harris	100 July	T	22203
	rfield	and and	All Market	6	tast sy		1:: 0 20		000@ 0 40	
	REP	A Colorado	ansfield Color	No.Ve	B					km
	0.1 2/5	/2025		PEI	R			ID	JG	NC
		Date	-	Descrip				GIS	Chk	App
			·				• .			- "
			natio	ona	al	gr	'Id			
	Scheme:									
- M		_	RTH HUME	SER TO) HIC	H M	ARNH	IAM		
	Figure Titl		RE 12.2 ·	BED	RO.	~~ <i>~</i>		00	,	
Burringha		FIGU	INE 12.2 ·					JUGY		
South Grai	Creator: ID	Date: 2/5/2		ker: G	Date: 2/5/2	025	Appro N		Date: 2/5/20	025
Km	Figure Re	f:	Scale:	Forma		Shee	ts:		Rev:	
	1 2.		1:25,000	A3			6 OF 13	3	0.1	









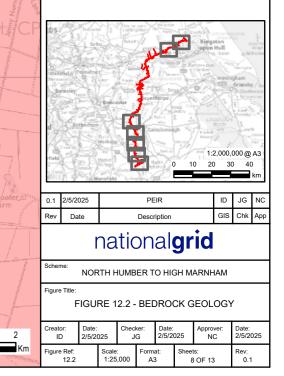


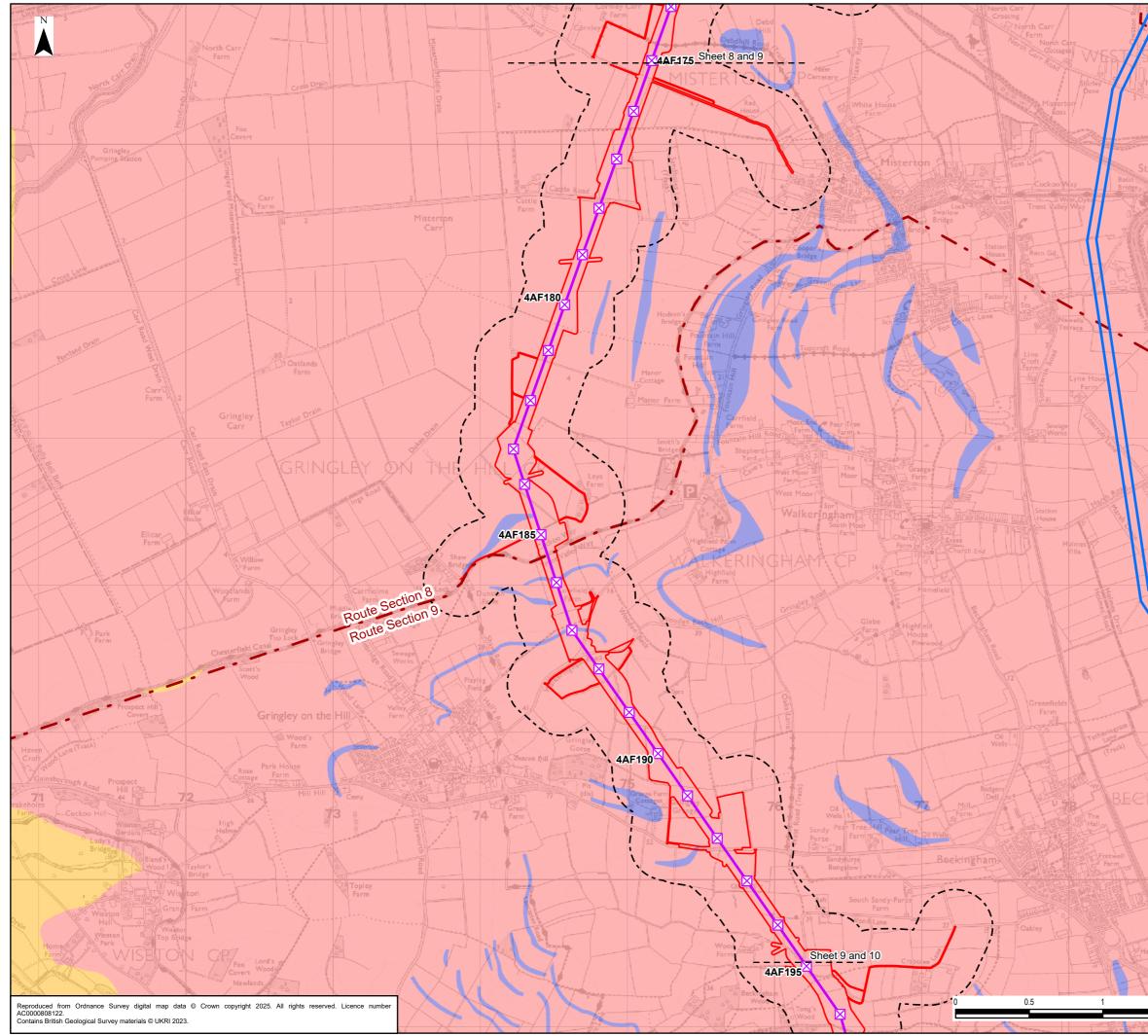


- Existing Overhead Line
- 400 kV
- Indicative New Overhead Line
- Indicative New Lattice Pylon

Bedrock Geology

- Clarborough member siltstone, dolomitic Mercia mudstone group - mudstone
- Mercia mudstone group siltstone, dolomitic





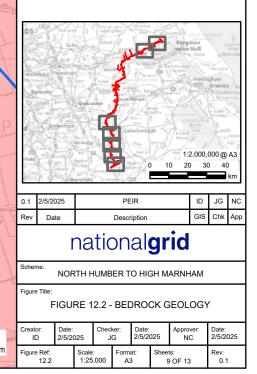




- 250 m Study Area
- Route Section Existing Overhead Line
- **—** 400 kV
- Indicative New Overhead Line
- Indicative New Lattice Pylon

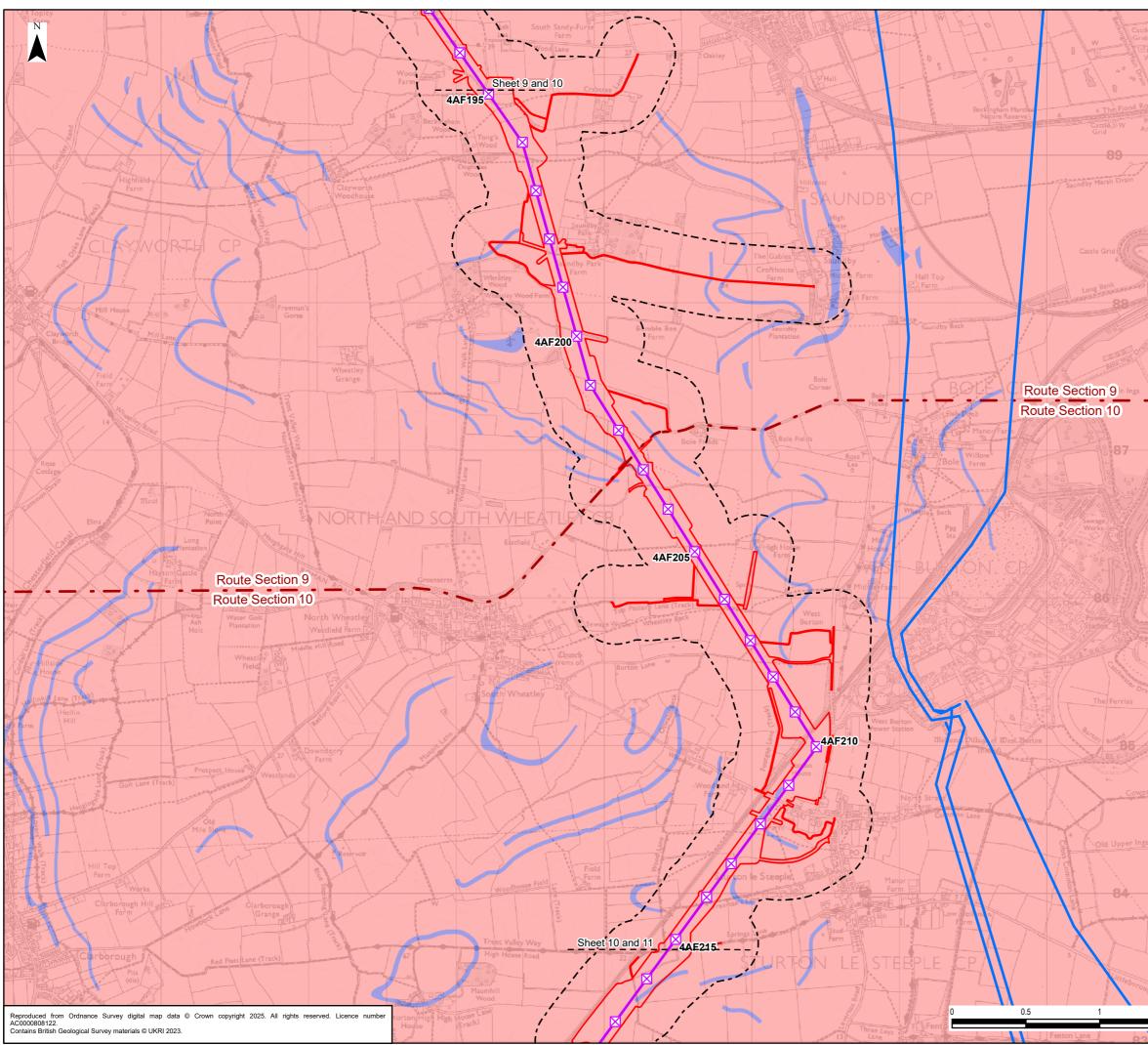
Bedrock Geology

- Chester formation sandstone, pebbly (gravelly)
- Clarborough member siltstone, dolomitic
- Mercia mudstone group mudstone
- Mercia mudstone group siltstone, dolomitic



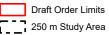
1.5

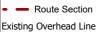
2











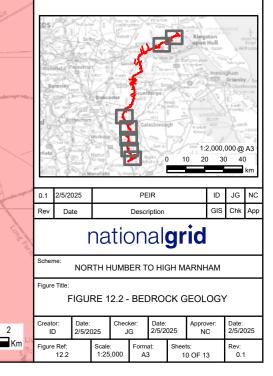
400 kV

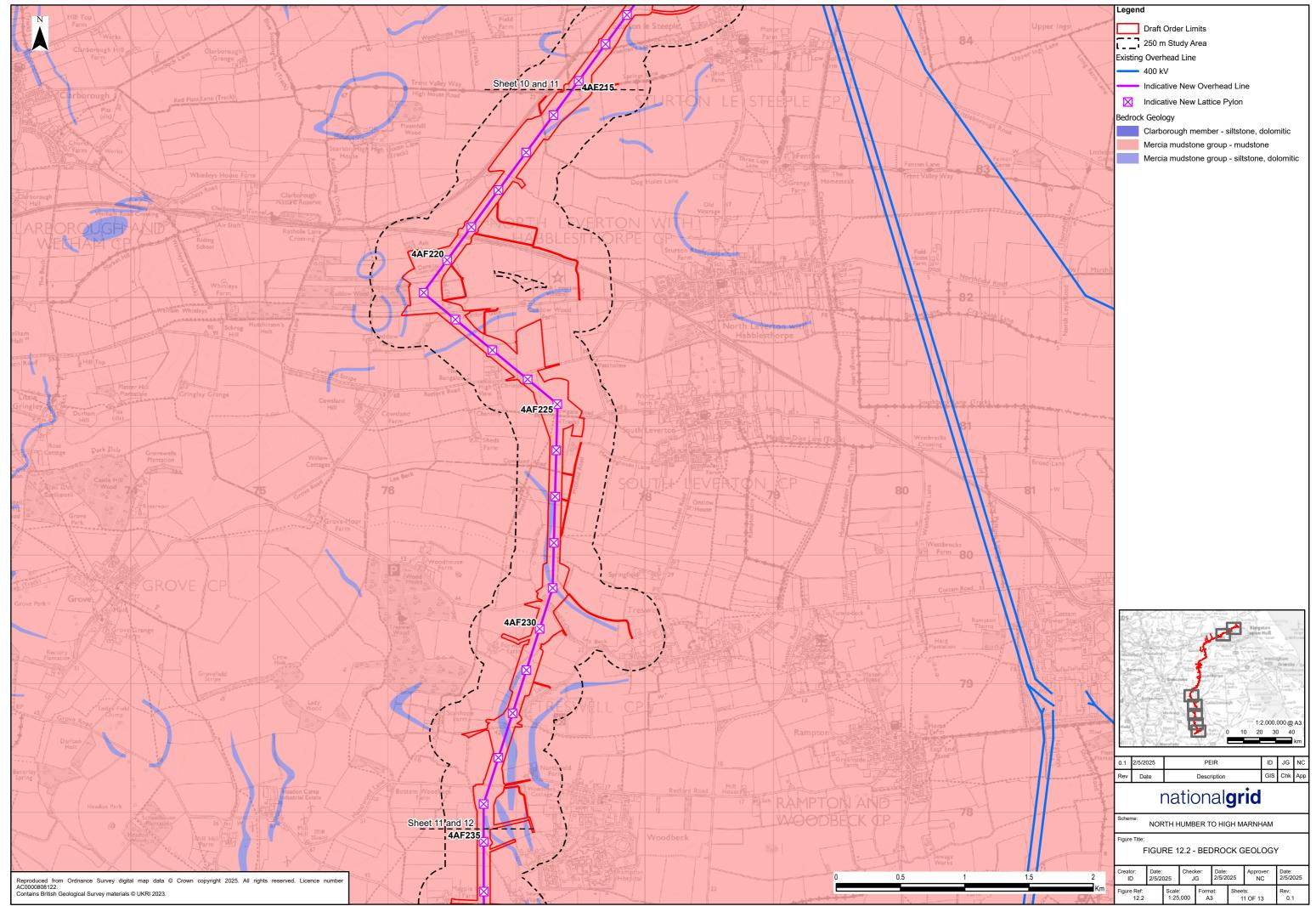
Indicative New Overhead Line

Indicative New Lattice Pylon

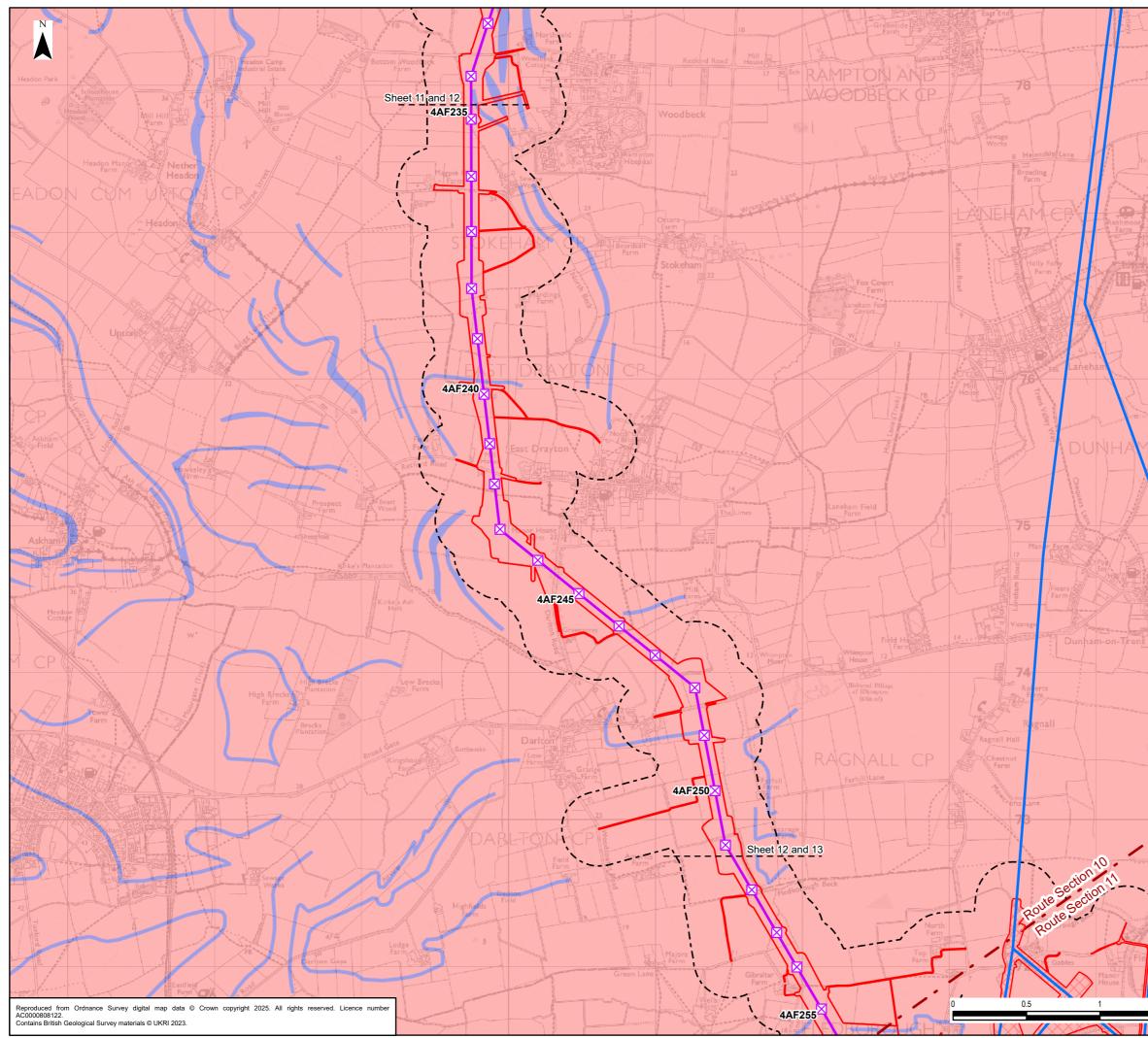
Bedrock Geology

Clarborough member - siltstone, dolomitic Mercia mudstone group - mudstone Mercia mudstone group - siltstone, dolomitic





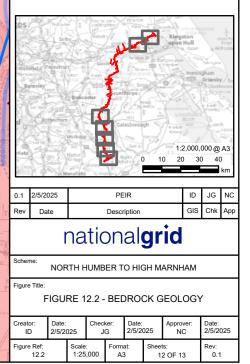
Document Path: \na.aecommet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-\/11E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx





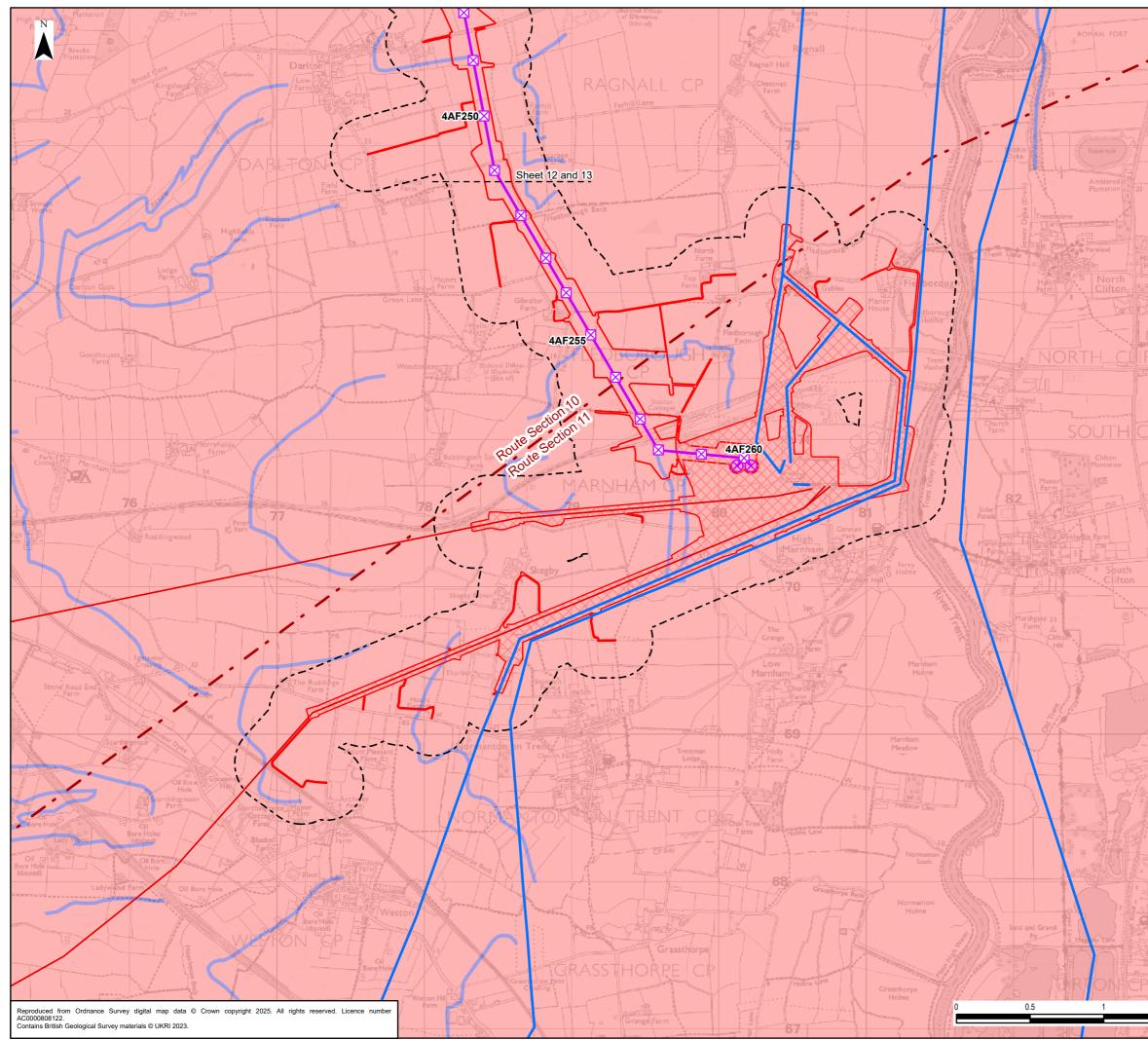






1.5

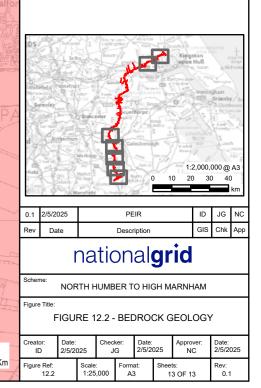
2



Legend

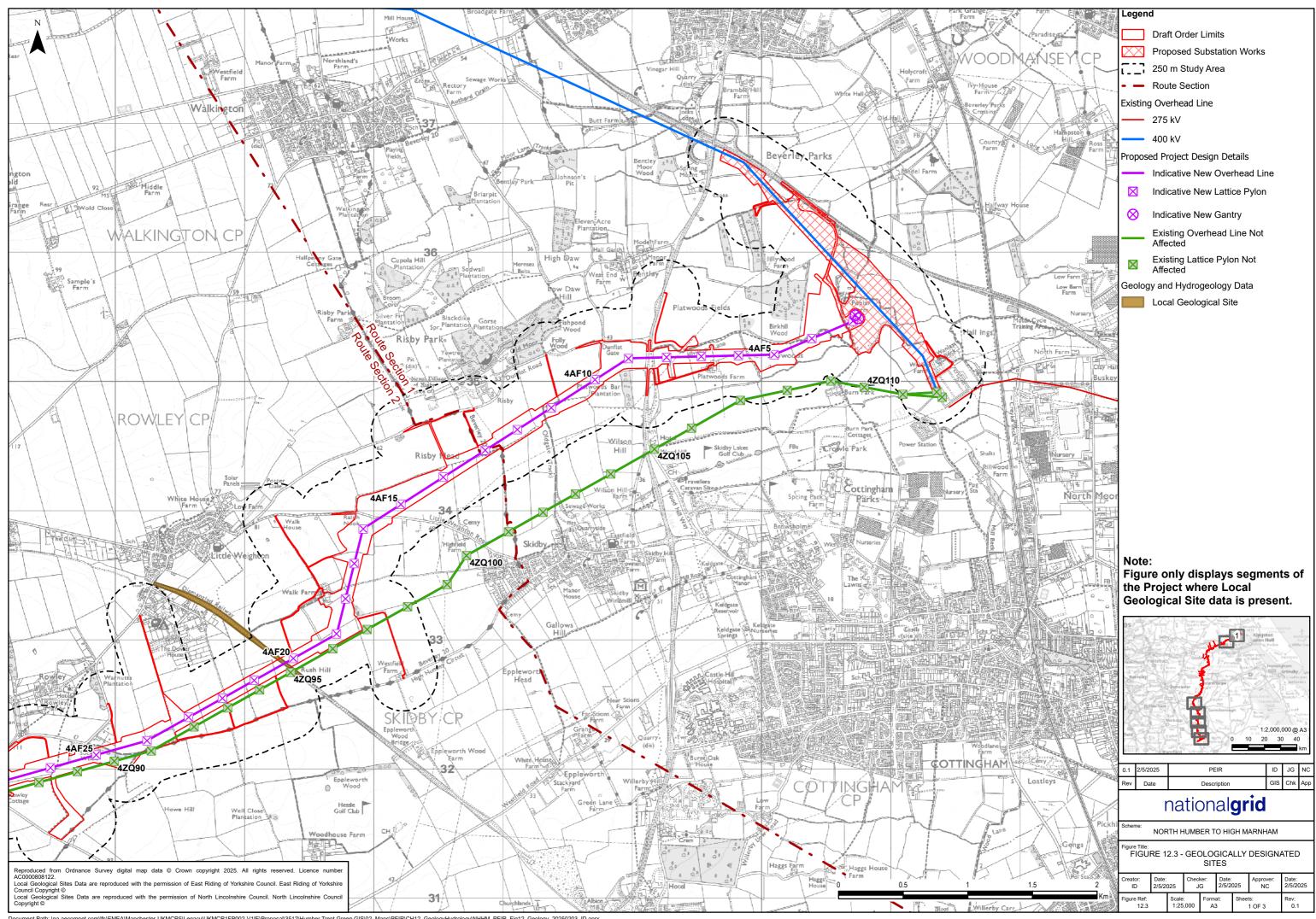


- Proposed Substation Works
- 250 m Study Area
- Route Section
- Existing Overhead Line
- 275 kV
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Number 2015 Indicative New Gantry
- Bedrock Geology
- Mercia mudstone group mudstone Mercia mudstone group - siltstone, dolomitic

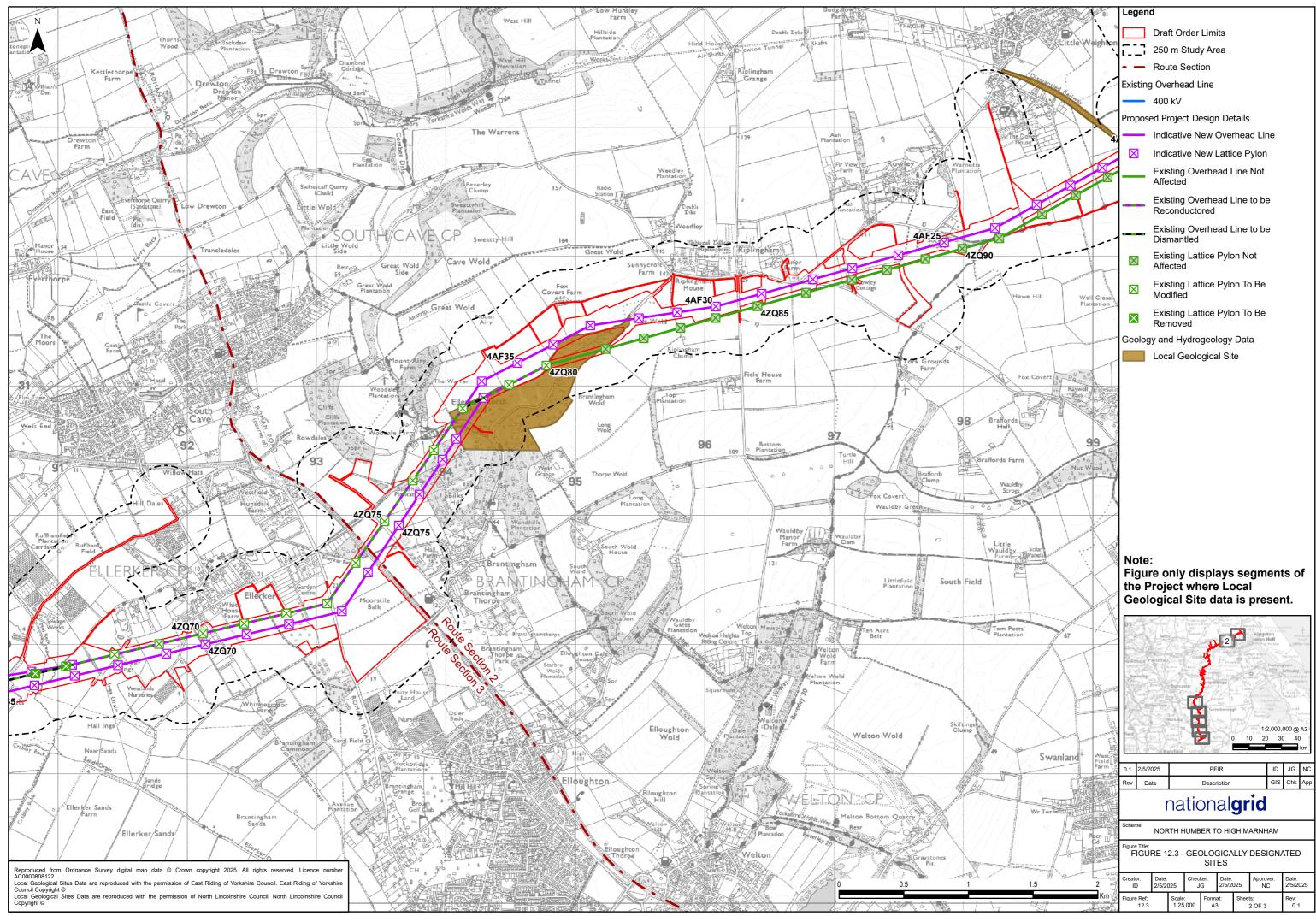


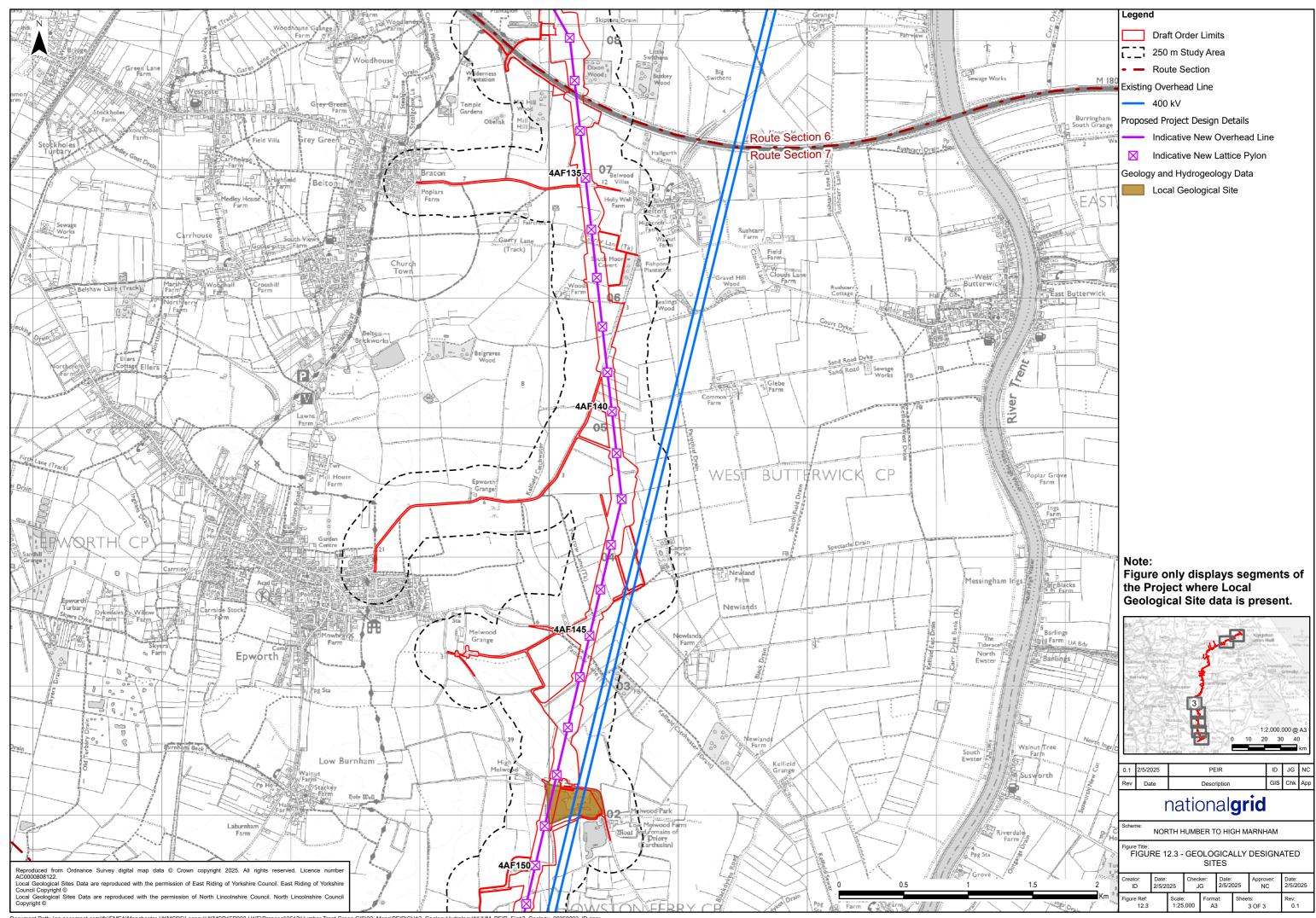
1.5

2

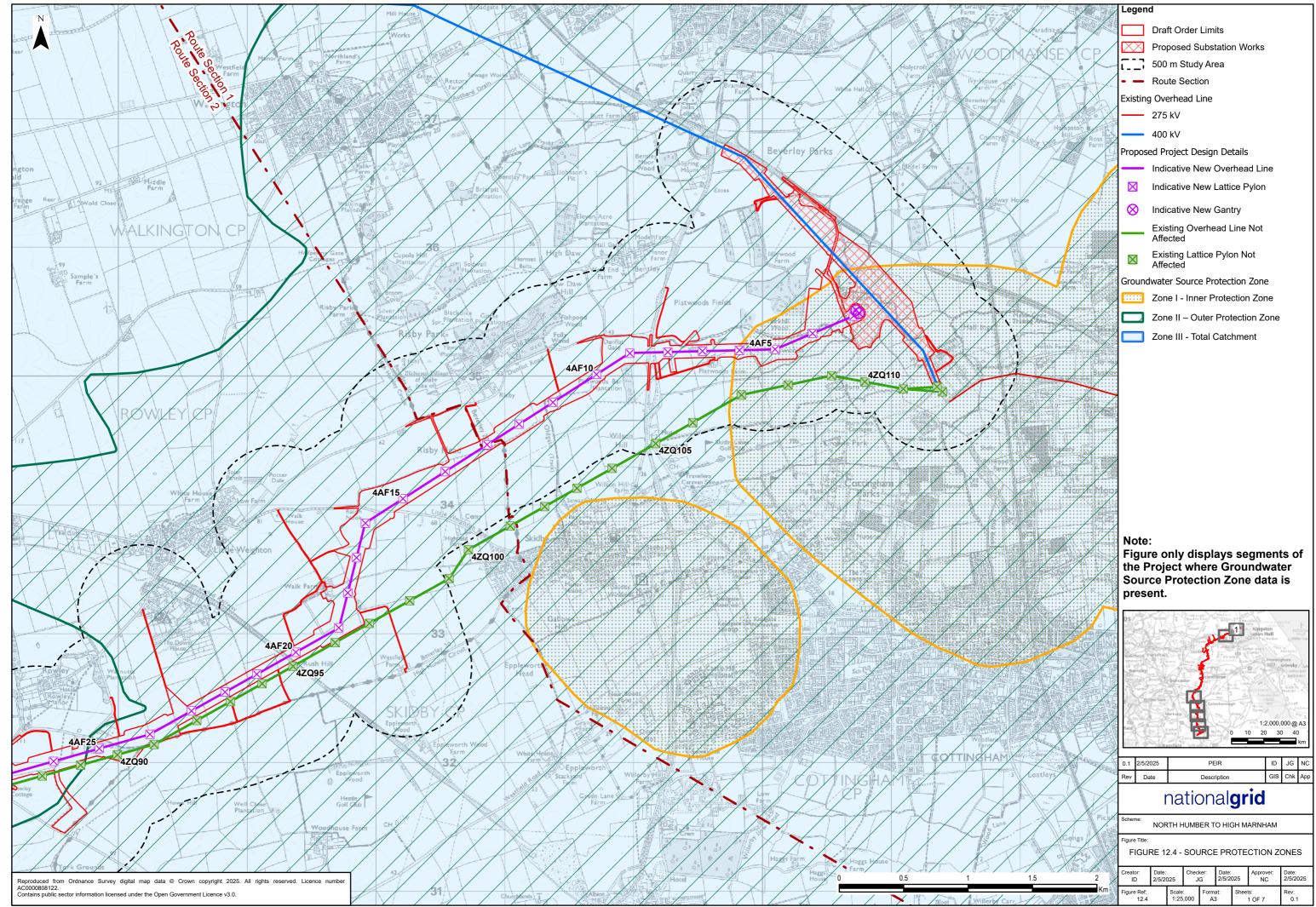


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1|E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_Geology\Hydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

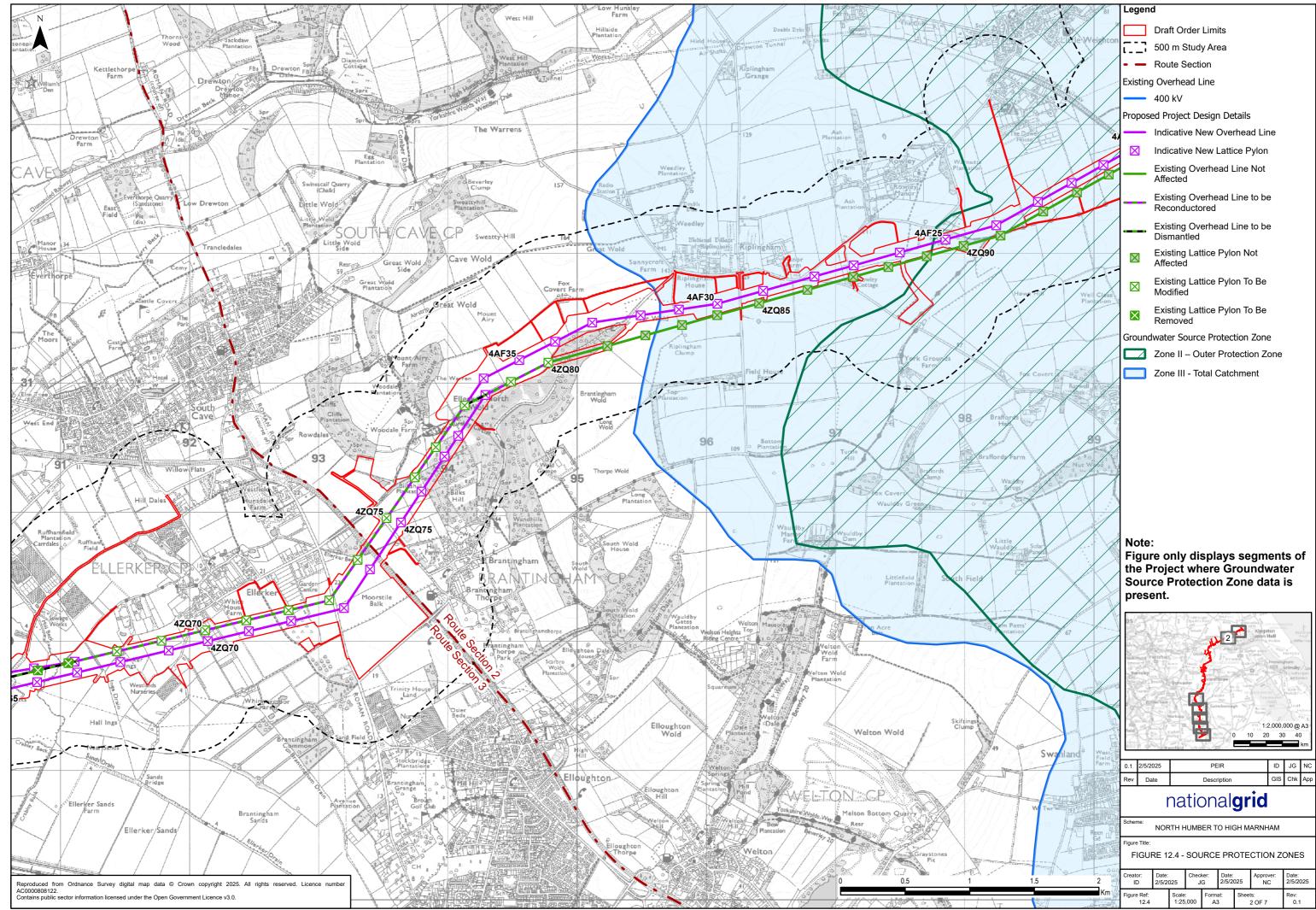




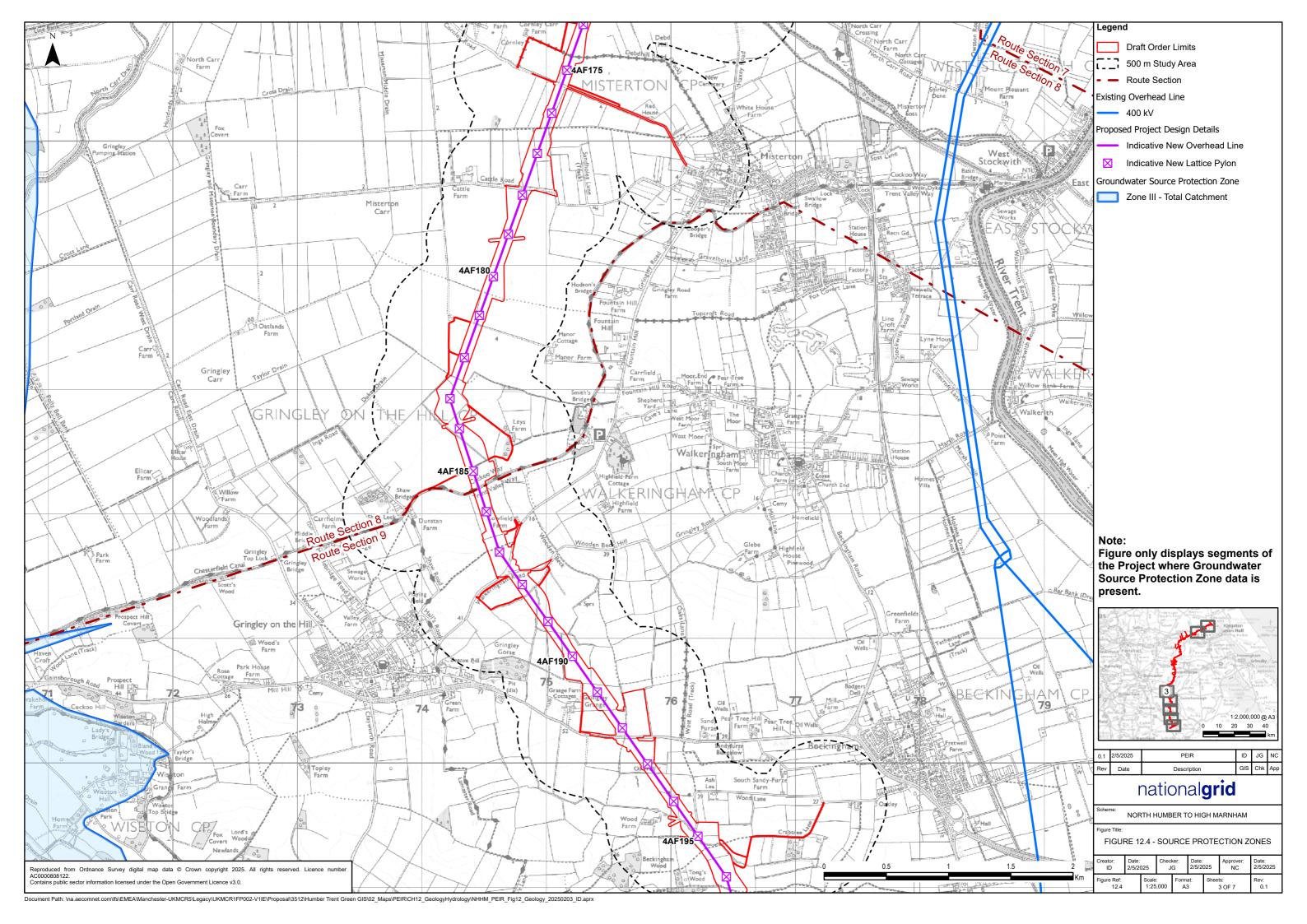
Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1|E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_Geology\Hydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

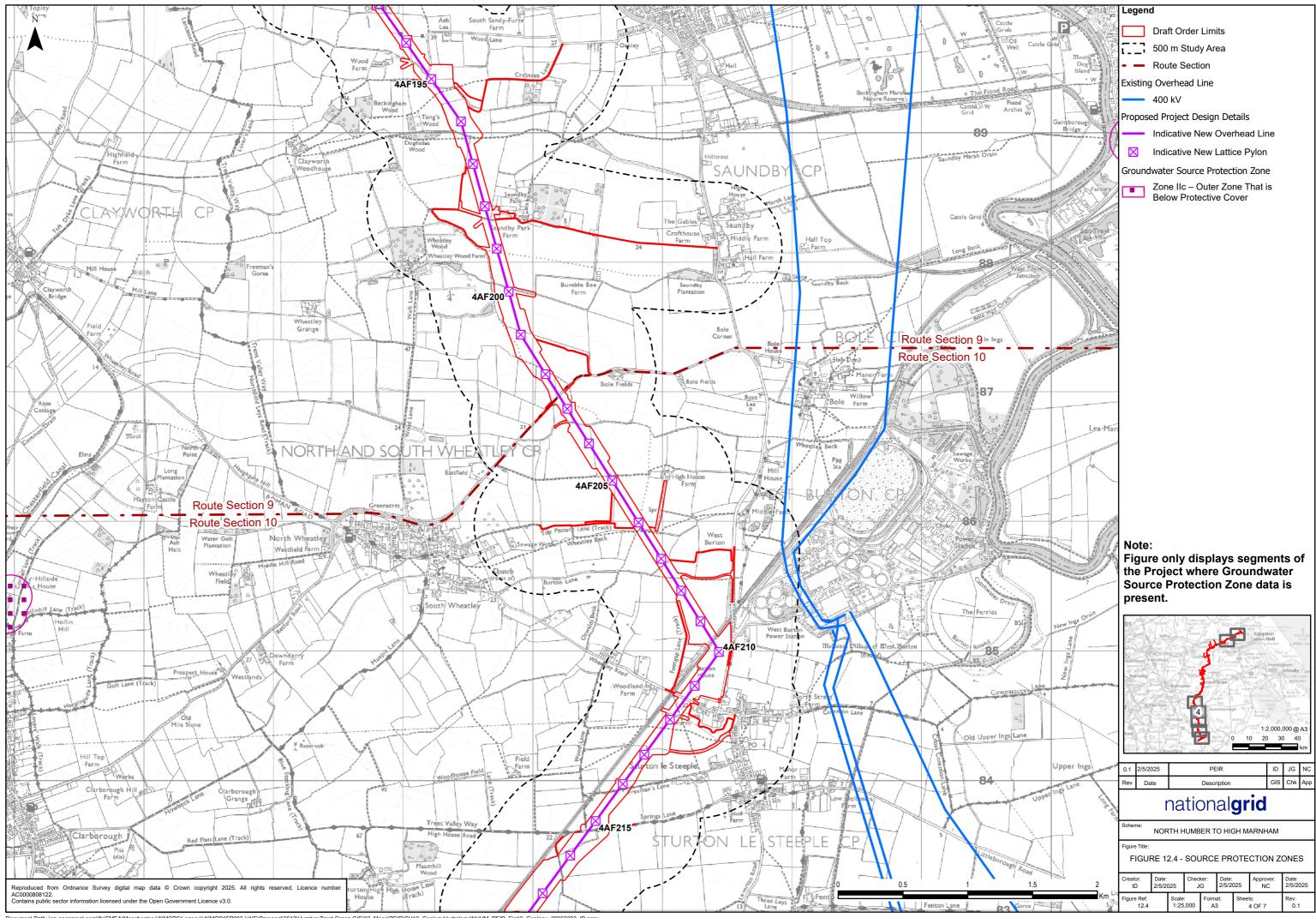


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

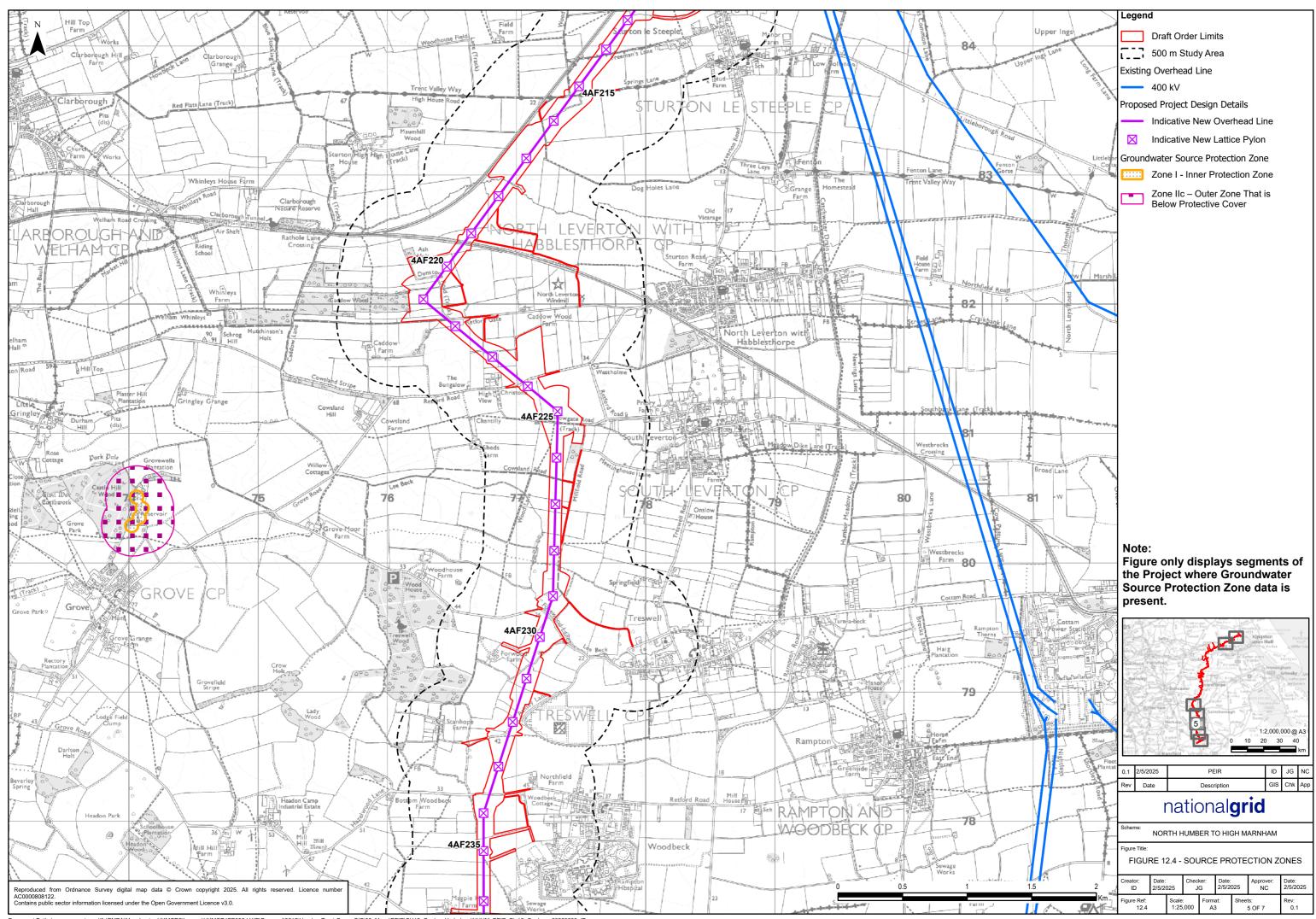


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx

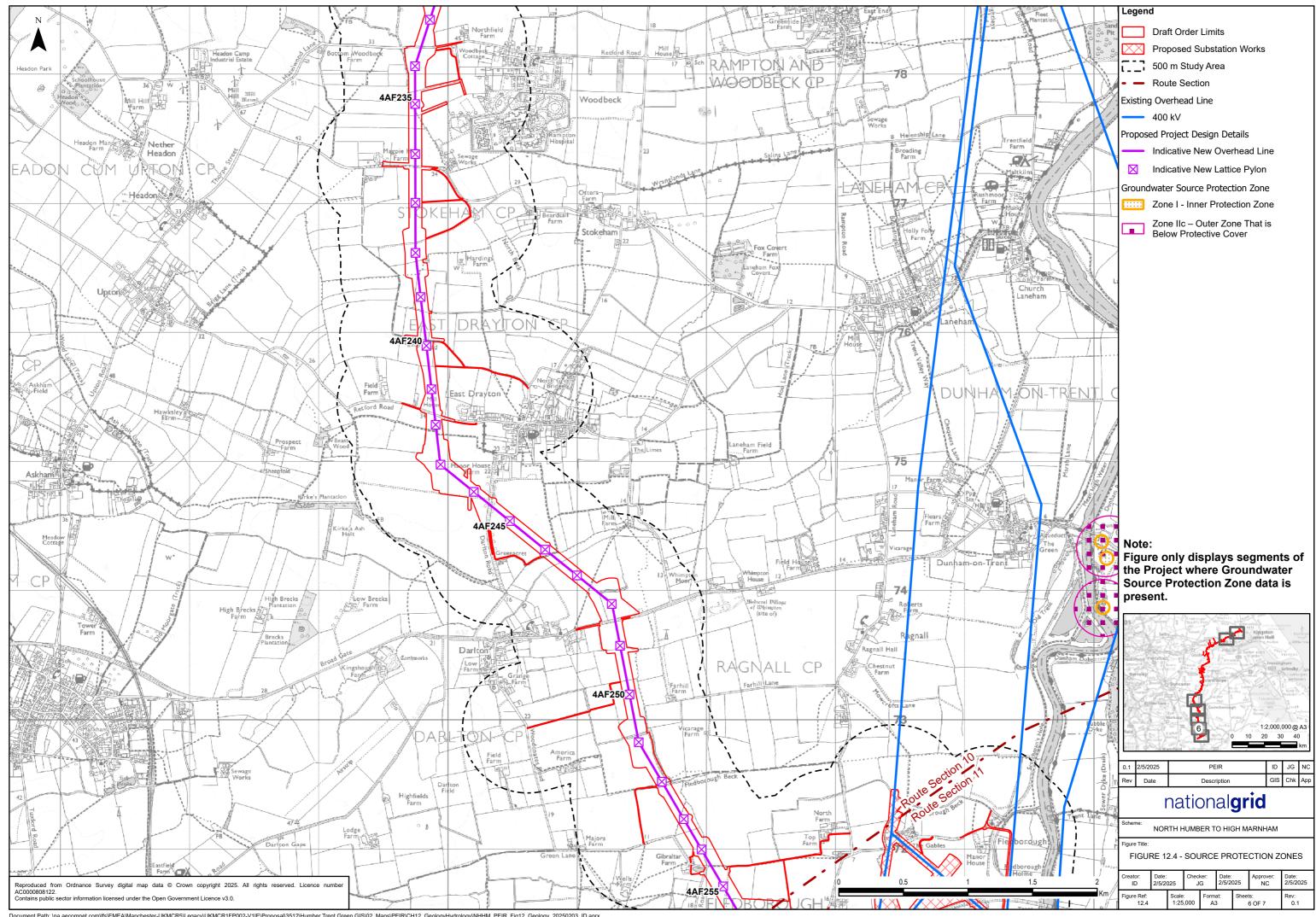


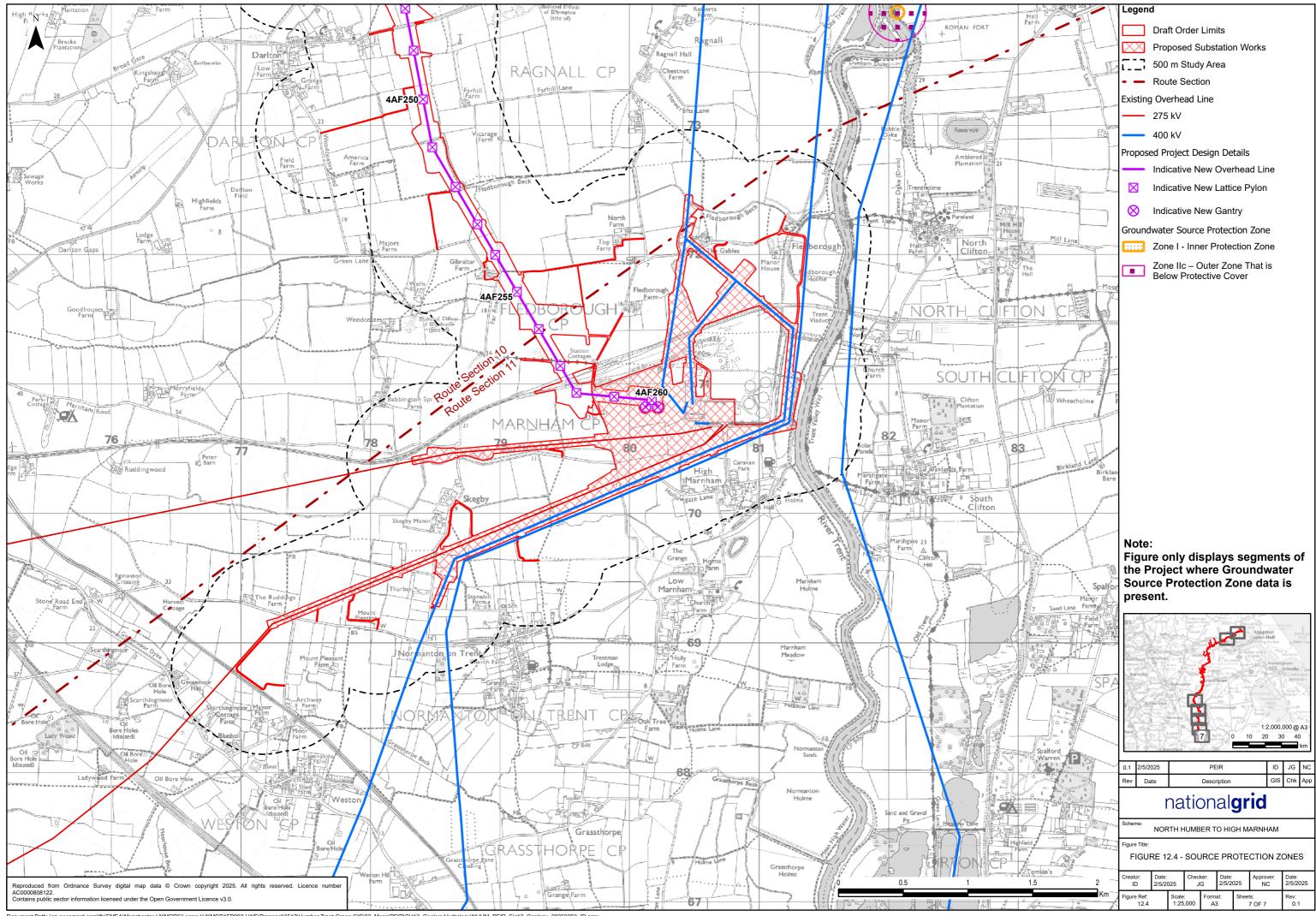


Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1|E\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_Geology\Hydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx



Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5\Legacy\UKMCR1FP002-V1IE\Proposal\3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx





Document Path: \na.aecomnet.com\lfs\EMEA\Manchester-UKMCR5iLegacy\UKMCR1FP002-V1IE\Proposal/3512\Humber Trent Green GIS\02_Maps\PEIR\CH12_GeologyHydrology\NHHM_PEIR_Fig12_Geology_20250203_ID.aprx