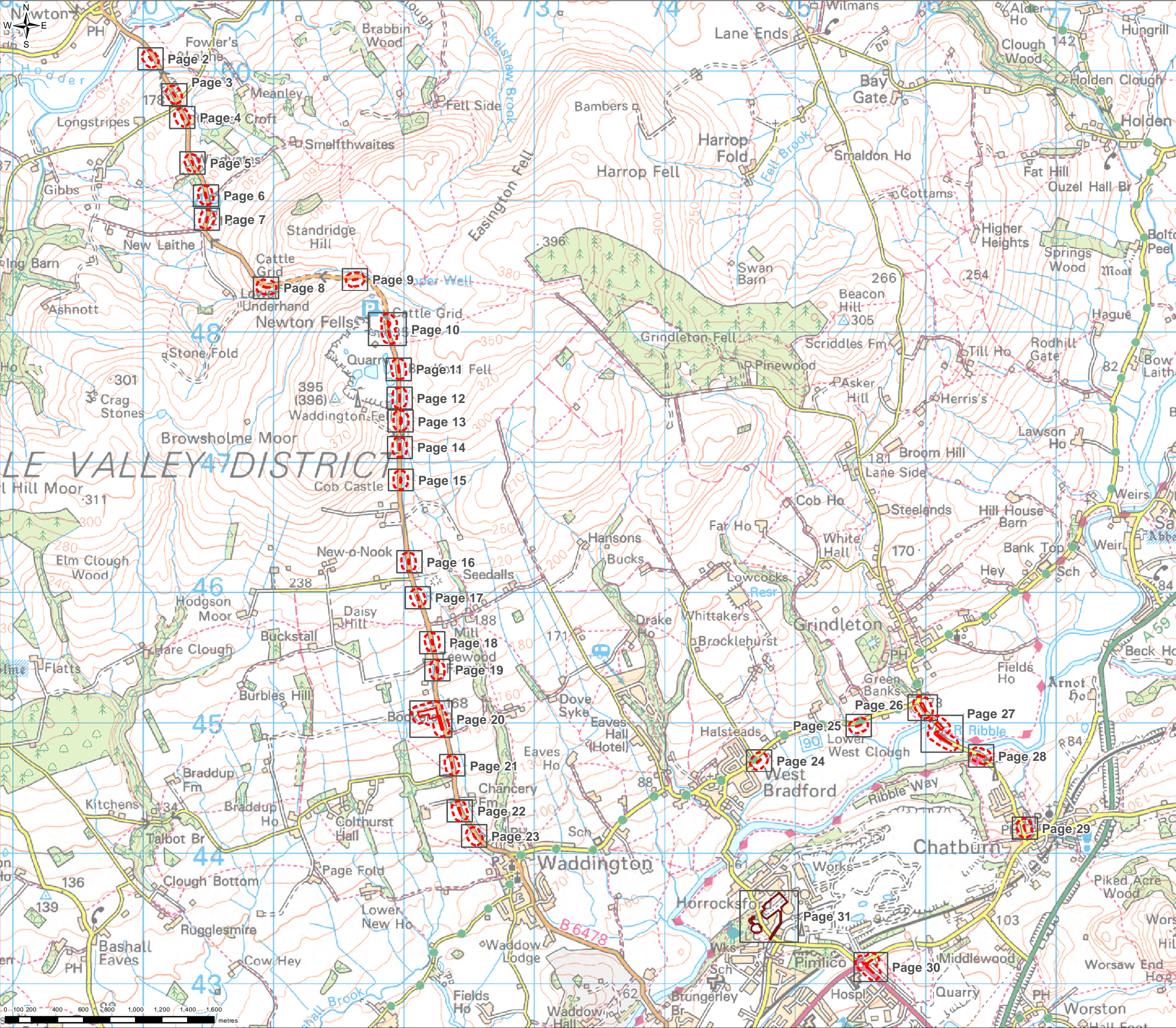


FIGURE 5



- Legend
- Highways improvement works
 - Highways improvement works - 50m buffer
 - Proposed works at Clitheroe
 - Page and page number

Note:
The locations of habitats and habitat features are indicative.



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PROJECT UNITED UTILITIES WATER LIMITED
HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II
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SCALE 1:28,100	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.1	REVISION 0

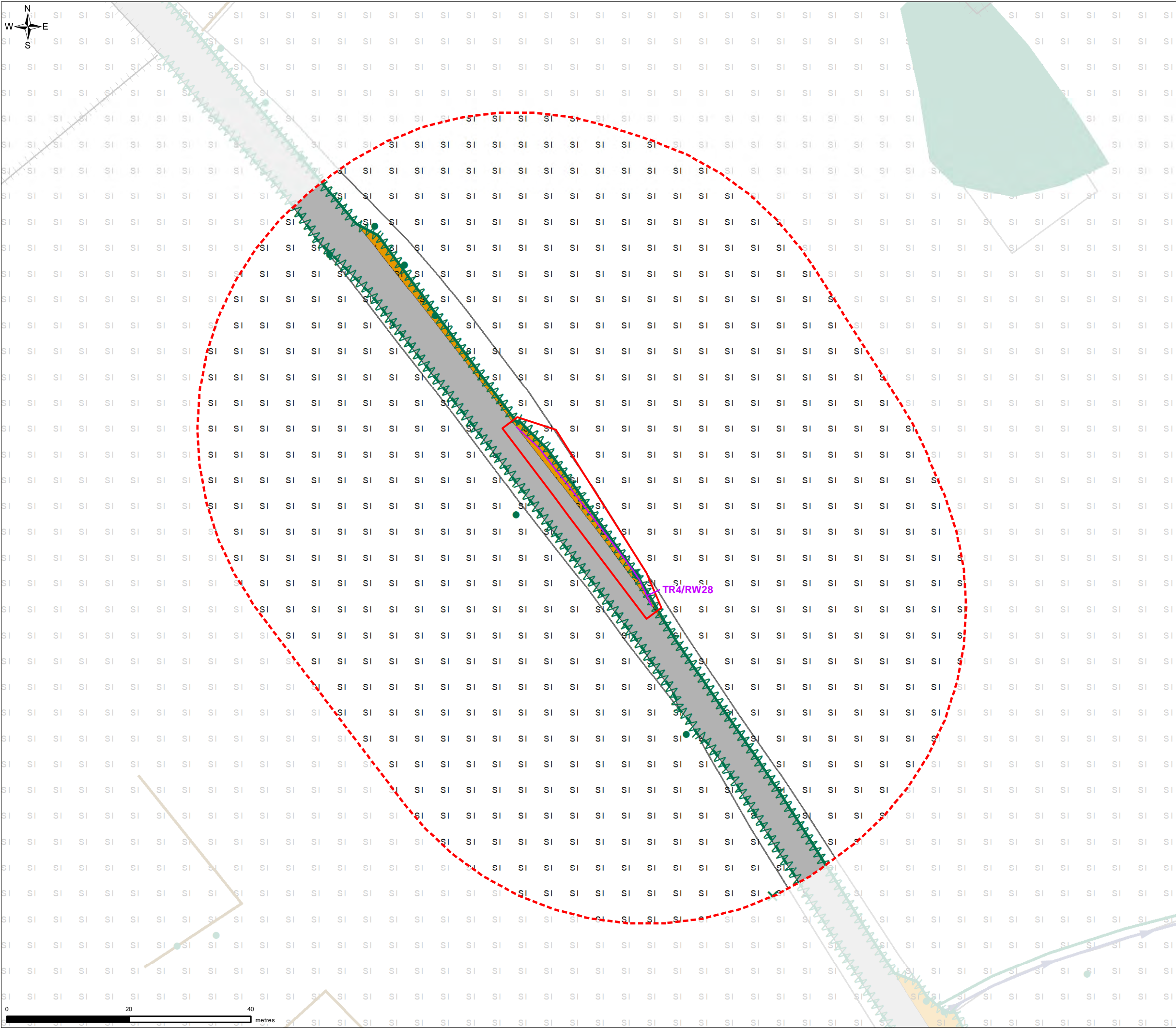


FIGURE 5

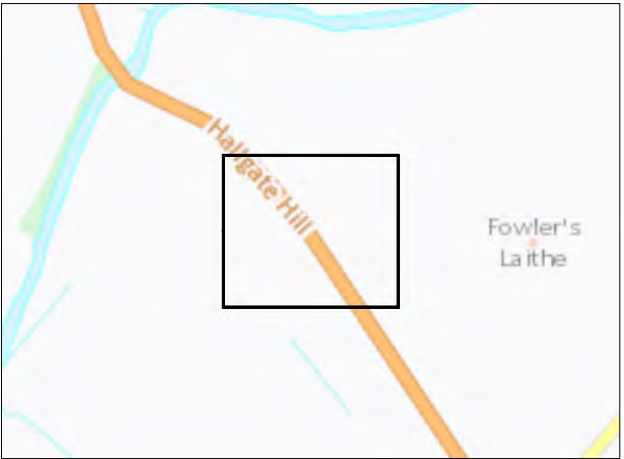
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Scattered scrub
- Scattered broad-leaved tree
- Running water
- Native species-rich intact hedge
- Species-poor intact hedge
- Native species-rich defunct hedge
- Fence
- Wall
- Semi-natural broad-leaved woodland
- Semi-improved neutral grassland
- Poor semi-improved grassland
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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PROJECT		UNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 2 OF 31	
SCALE		SHEET SIZE	
1:600		A3	
DRAWING NUMBER		REVISION	
LCC_RVBC-BO-FIG-V5-P2-02.05.2		0	

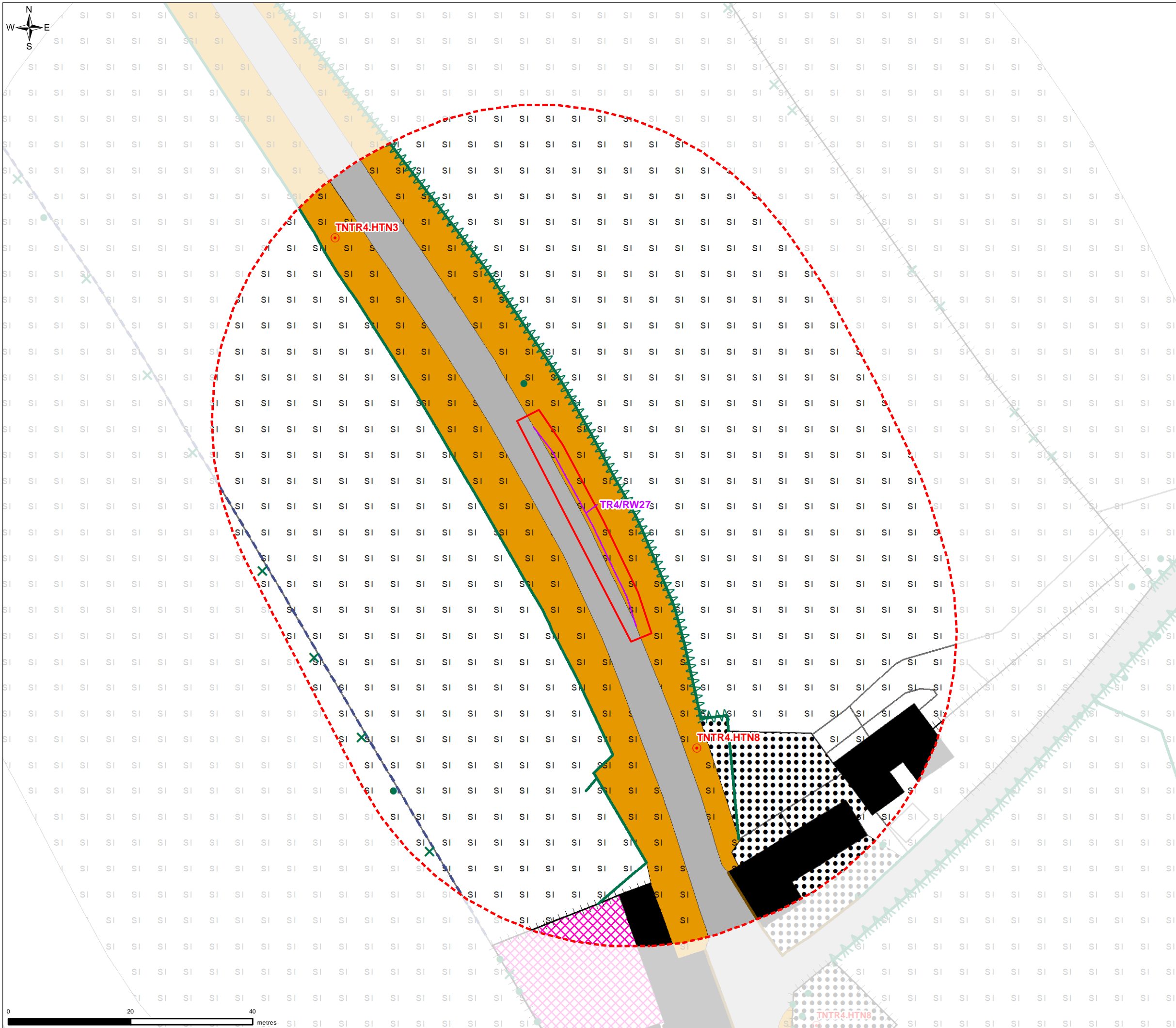


FIGURE 5

Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Target note
- Scattered scrub
- Scattered broad-leaved tree
- Native species-rich intact hedge
- Species-poor intact hedge
- Dry ditch
- Native species-rich hedge and trees
- Fence
- Wall
- Semi-improved neutral grassland
- Poor semi-improved grassland
- Building
- Private garden
- Bare ground
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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PAGE 3 OF 31

SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.3	REVISION 0

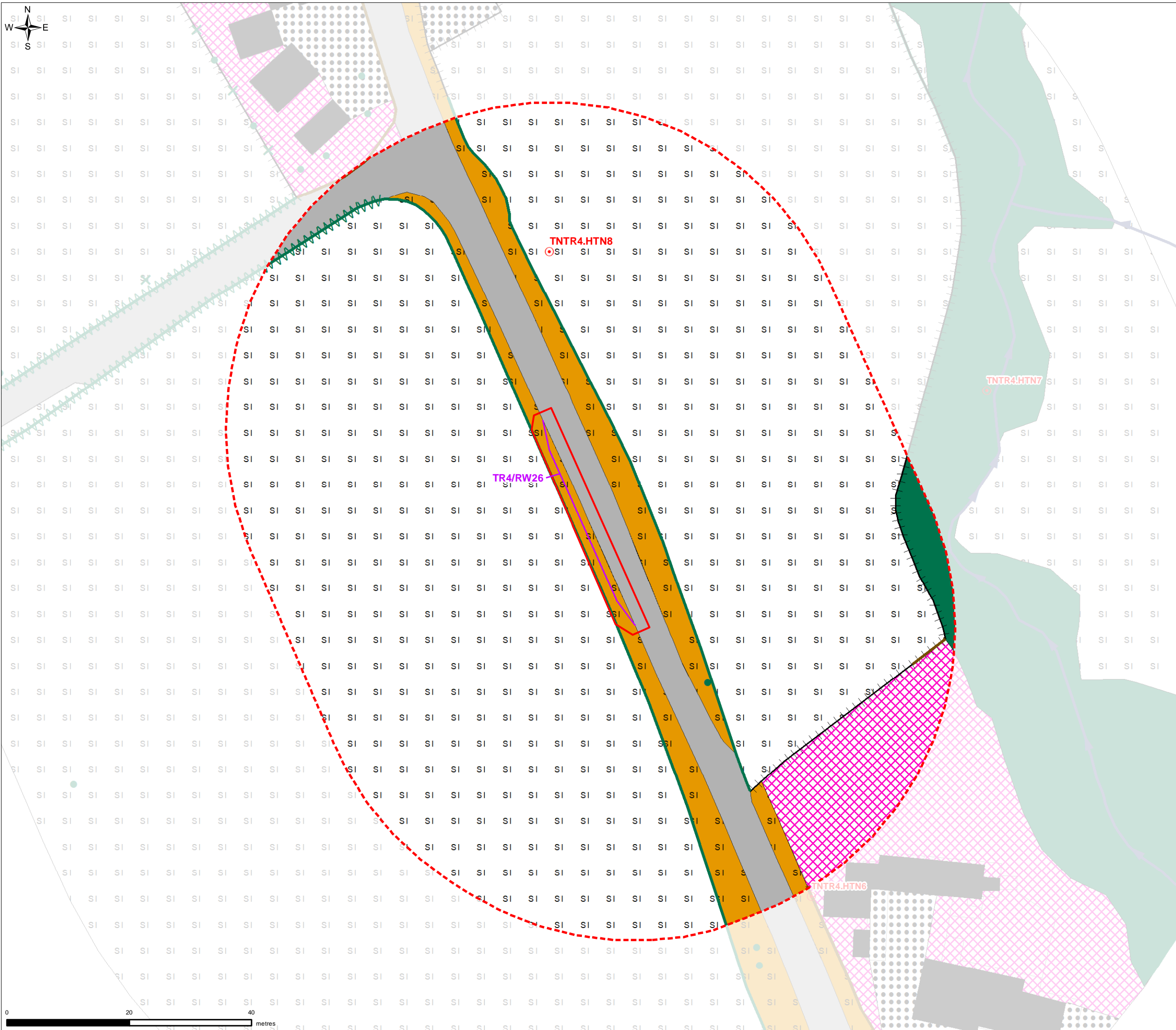
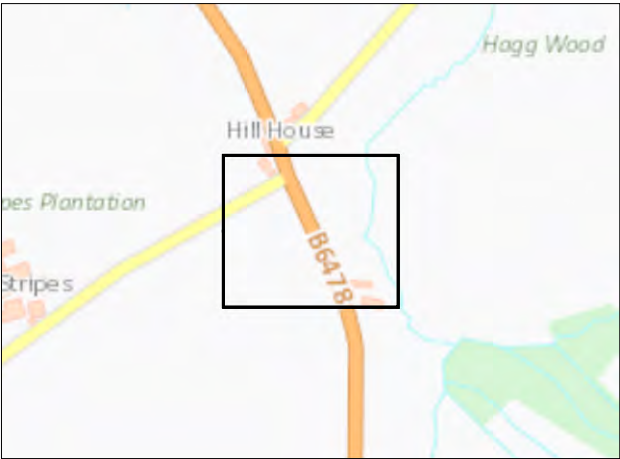


FIGURE 5

Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening
- Phase Habitat 1 Survey
 - Target note
 - Scattered scrub
 - Scattered broad-leaved tree
 - Running water
 - Native species-rich intact hedge
 - Species-poor intact hedge
 - Fence
 - Wall
 - Semi-natural broad-leaved woodland
 - Semi-improved neutral grassland
 - Poor semi-improved grassland
 - Building
 - Private garden
 - Bare ground
 - Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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PROJECT UNITED UTILITIES WATER LIMITED
HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II
PHASE 1 HABITAT SURVEY
PAGE 4 OF 31

SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.4	REVISION 0

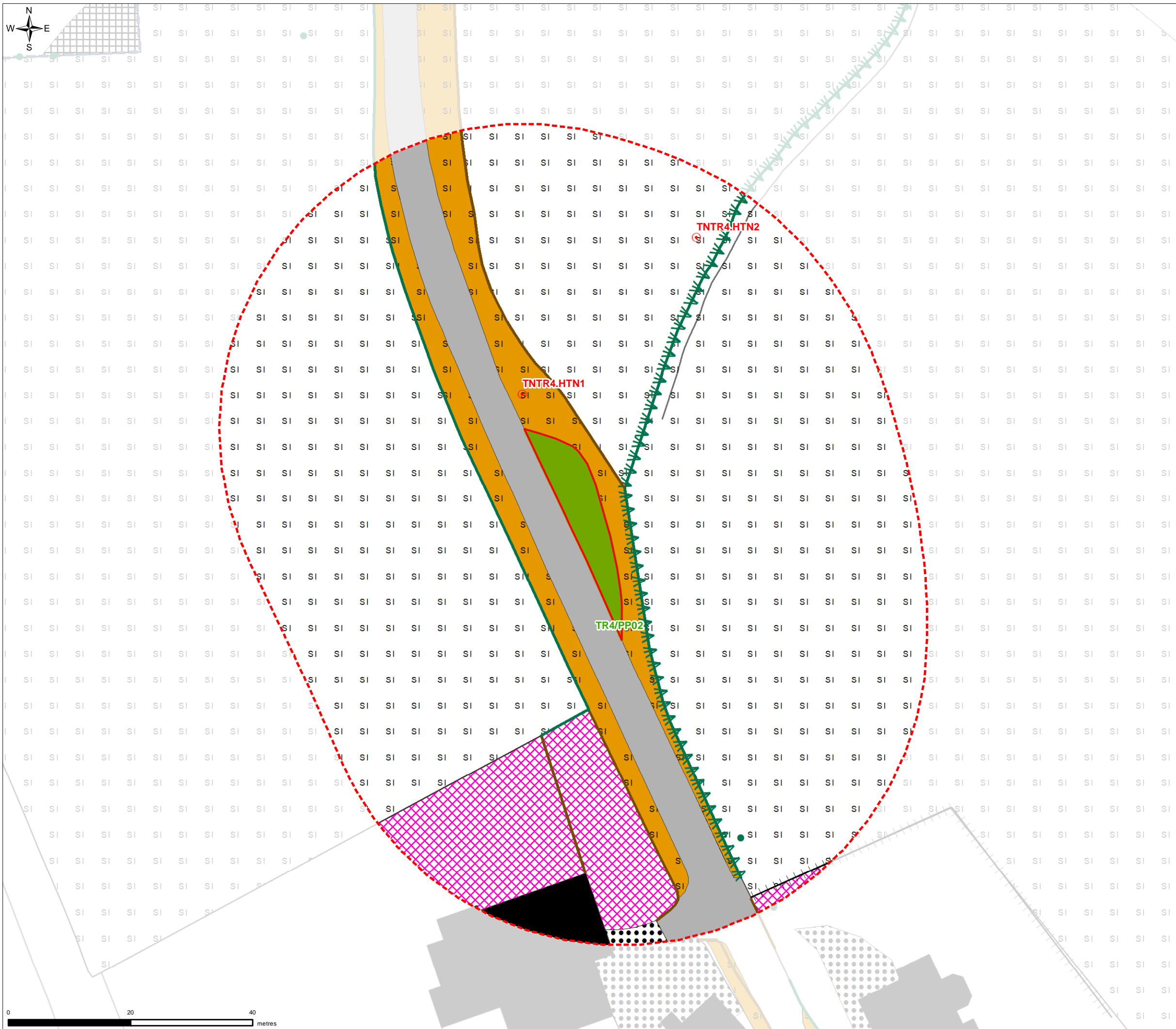


FIGURE 5

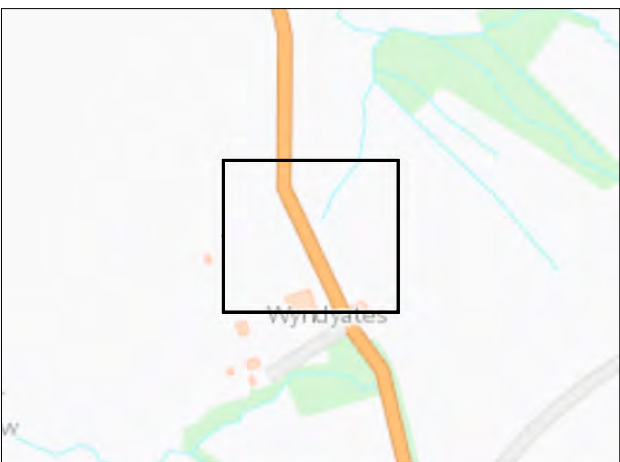
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Passing place


Phase Habitat 1 Survey

- Target note
- Scattered broad-leaved tree
- Species-poor intact hedge
- Dry ditch
- Species-poor defunct hedge
- Native species-rich hedge and trees
- Fence
- Wall
- Semi-improved neutral grassland
- Poor semi-improved grassland
- Building
- Private garden
- Bare ground
- Hardstanding
- Not surveyed

Note:
The locations of habitats and habitat features are indicative.



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Water for the North West

PROJECT

UNITED UTILITIES WATER LIMITED
HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II
PHASE 1 HABITAT SURVEY
PAGE 5 OF 31

SCALE
1:600

DRAWING NUMBER
LCC_RVBC-BO-FIG-V5-P2-02.05.5

SHEET SIZE
A3

REVISION
0

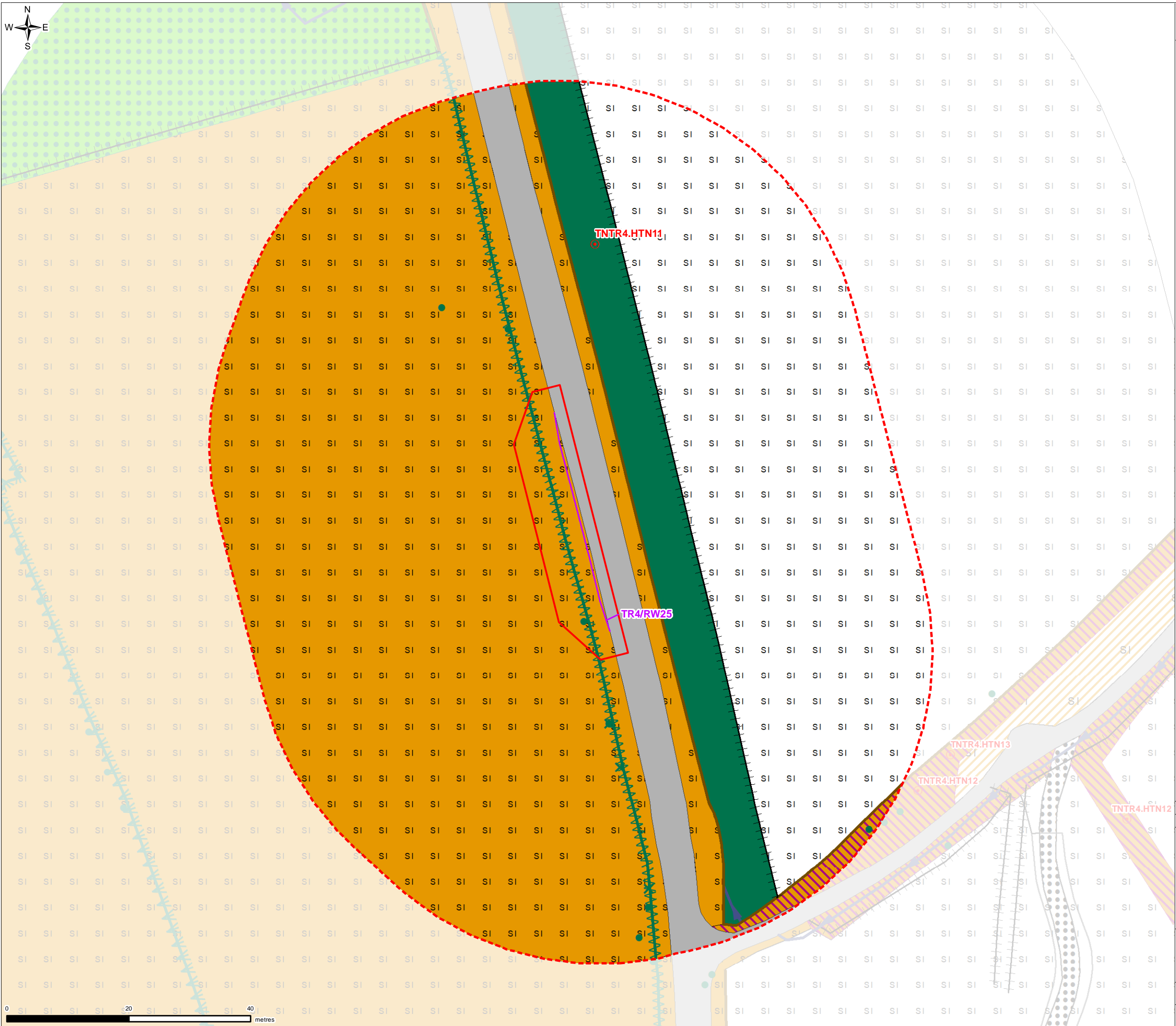
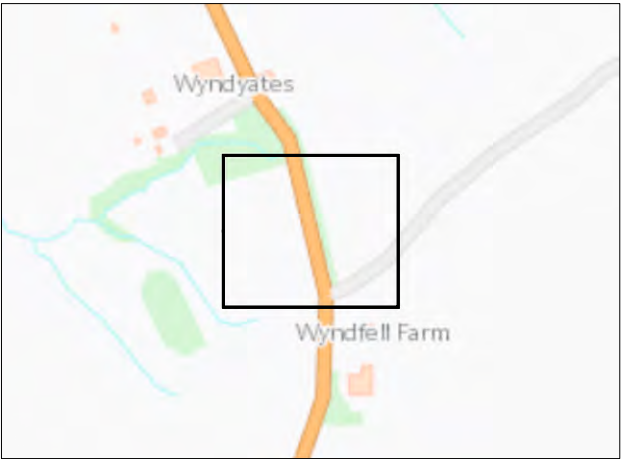


FIGURE 5

- Legend**
- Highways improvement works
 - Highways improvement works - 50m buffer
 - Road widening
 - Bare ground
 - Hardstanding
- Phase Habitat 1 Survey**
- Target note
 - Scattered scrub
 - Scattered broad-leaved tree
 - Running water
 - Native species-rich intact hedge
 - Native species-rich hedge and trees
 - Fence
 - Wall
 - Semi-natural broad-leaved woodland
 - Semi-natural mixed woodland
 - Semi-improved acid grassland
 - Semi-improved neutral grassland
 - Marsh/marshy grassland
 - Poor semi-improved grassland

Note:
The locations of habitats and habitat features are indicative.



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SCALE 1:600					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.6					REVISION 0

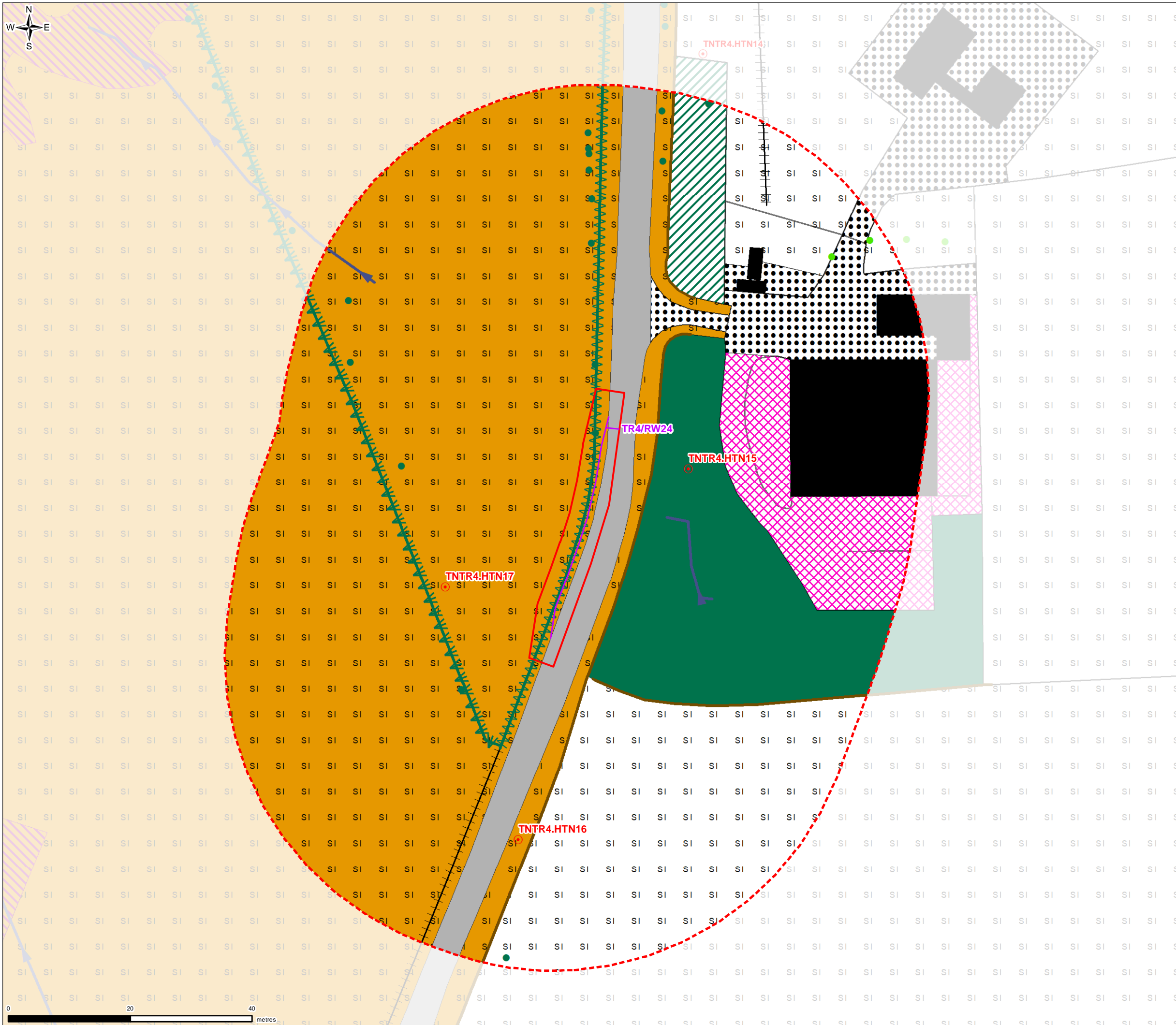



FIGURE 5

- Legend**
- Highways improvement works
 - Highways improvement works - 50m buffer
 - Road widening
 - Private garden
 - Bare ground
 - Hardstanding
- Phase Habitat 1 Survey**
- Target note
 - Scattered broad-leaved tree
 - Scattered coniferous tree
 - Running water
 - Native species-rich intact hedge
 - Native species-rich hedge and trees
 - Fence
 - Wall
 - Semi-natural broad-leaved woodland
 - Plantation broad-leaved woodland
 - Semi-improved neutral grassland
 - Marsh/marshy grassland
 - Poor semi-improved grassland
 - Building

Note:
The locations of habitats and habitat features are indicative.



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<div><p>Water for the North West</p></div>					
PROJECT UNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 7 OF 31					
SCALE 1:600					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.7					REVISION 0

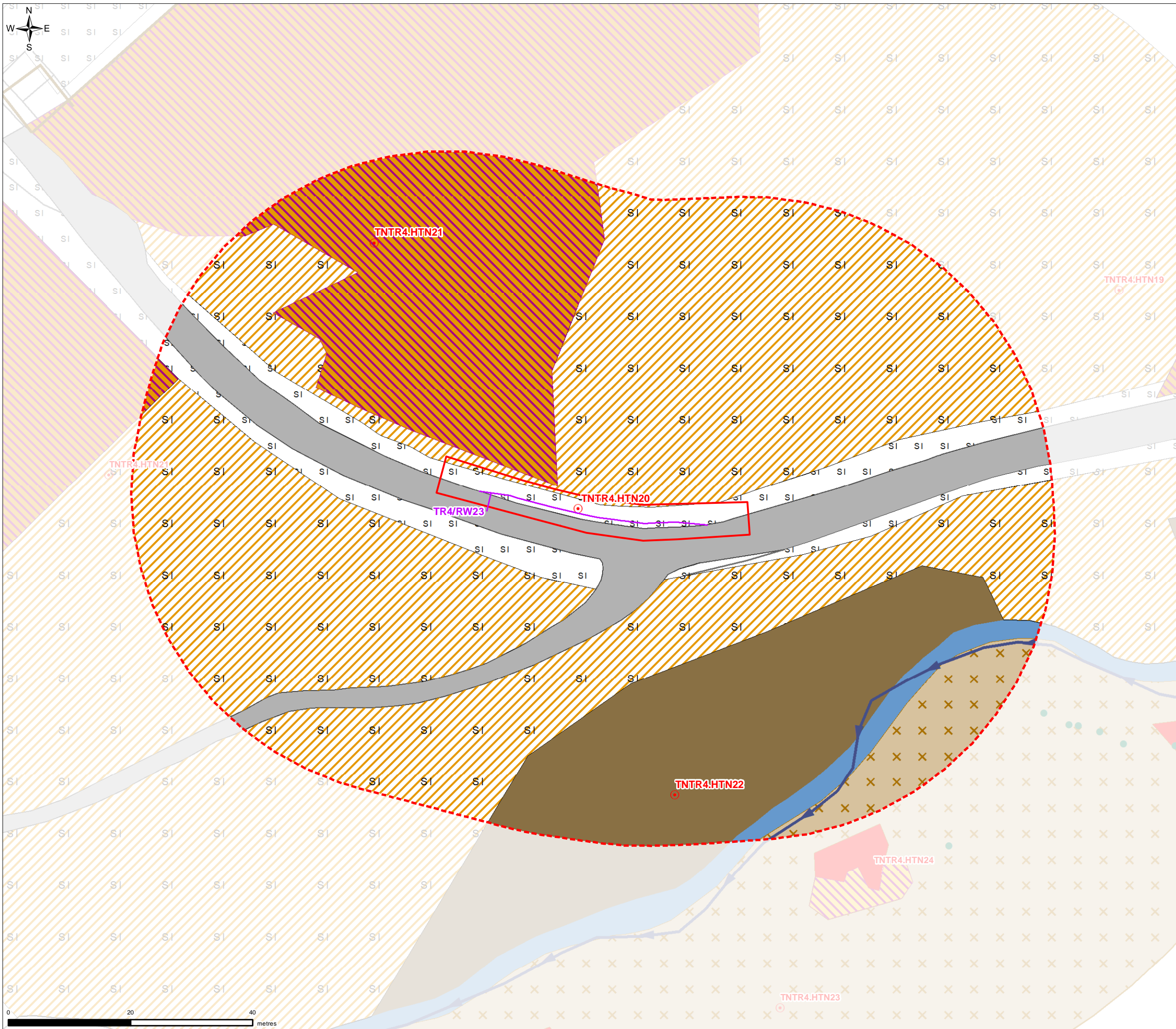


FIGURE 5

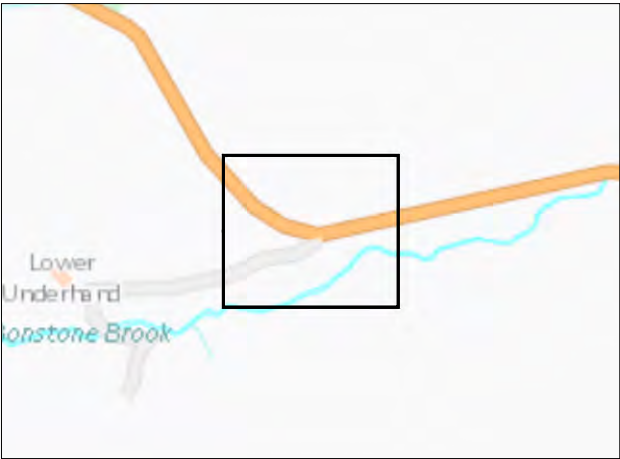
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Target note
- Scattered broad-leaved tree
- Running water
- Wall
- Semi-improved acid grassland
- Marsh/marshy grassland
- Poor semi-improved grassland
- Continuous bracken
- Wet dwarf shrub heath
- Running water
- Acid/neutral exposure inland cliff
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.

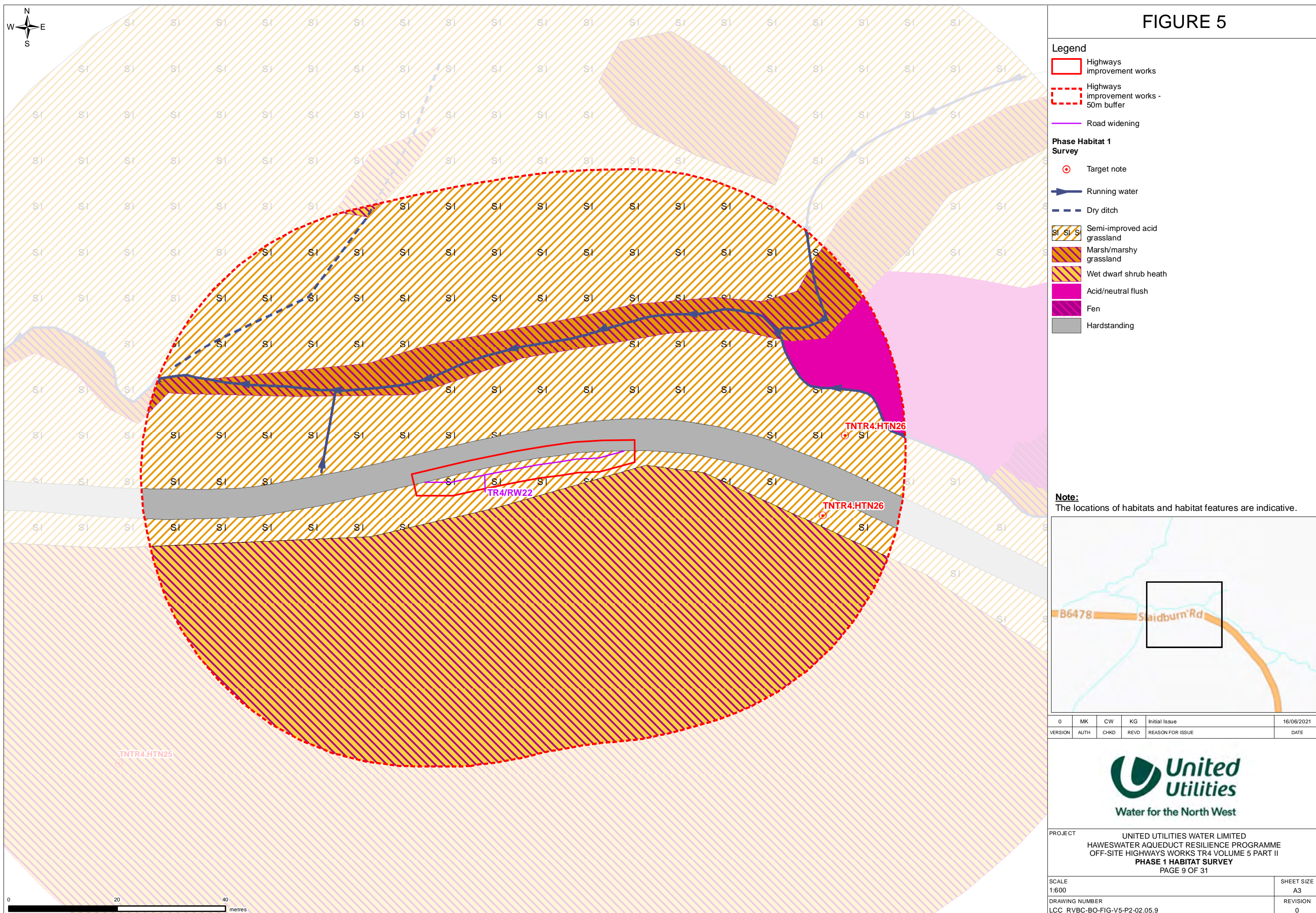


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VERSION	AUTH	CHKD	REVD	REASON FOR ISSUE	DATE



PROJECT UNITED UTILITIES WATER LIMITED
HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II
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SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.8	REVISION 0



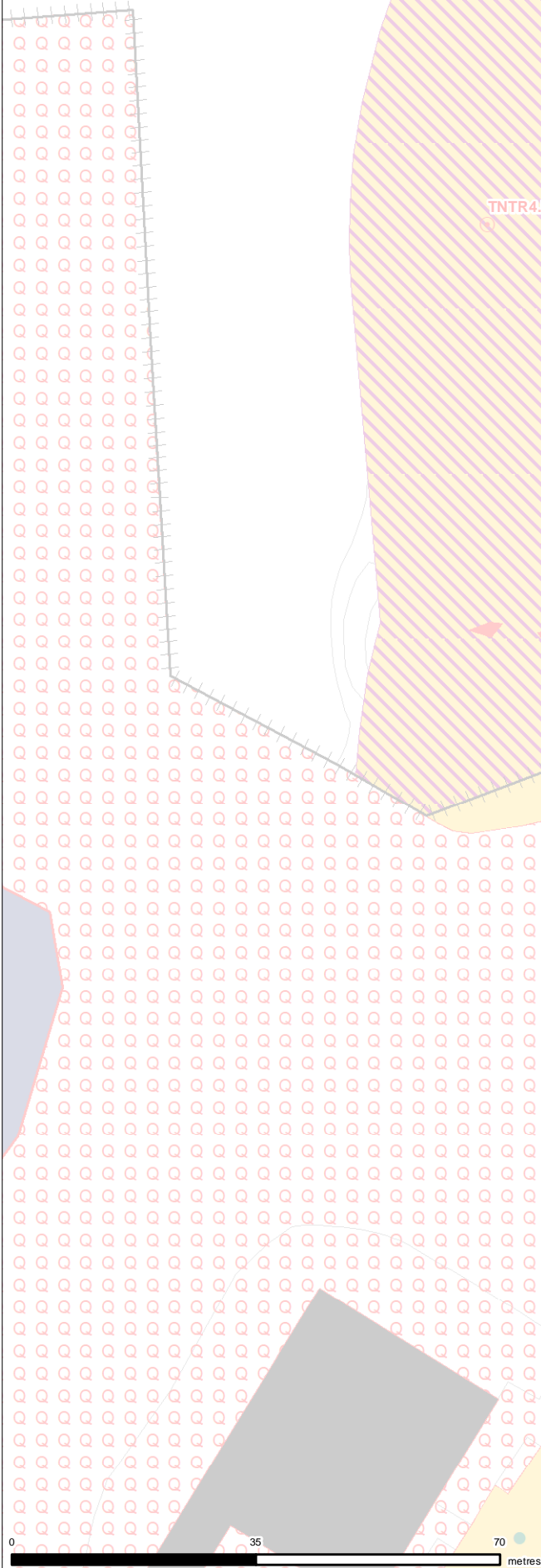


FIGURE 5

Legend

Highways improvement works

Highways improvement works - 50m buffer

Road widening

Passing place

Dense/continuous ephemeral/short perennial

Building

Bare ground

Hardstanding

Phase Habitat 1 Survey

Target note

Scattered broad-leaved tree

Fence

Wall

Plantation mixed woodland

Semi-improved acid grassland

Semi-improved neutral grassland

Marsh/marshy grassland

Acid dry dwarf shrub heath

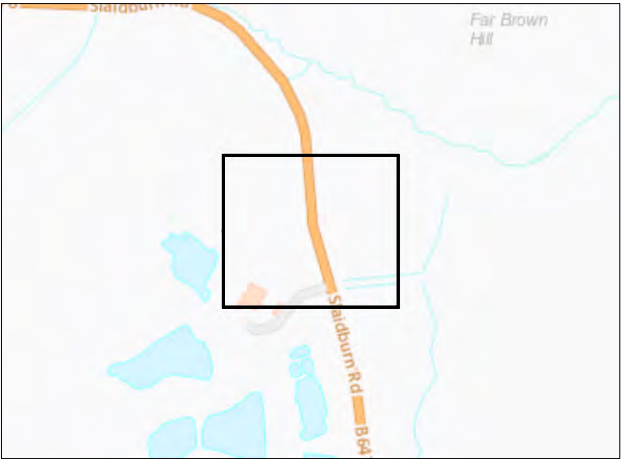
Wet dwarf shrub heath


Standing water

Acid/neutral exposure inland cliff

Quarry

Note:
The locations of habitats and habitat features are indicative.



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<div><p>Water for the North West</p></div>					
PROJECT UNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 10 OF 31					
SCALE 1:900					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.10					REVISION 0

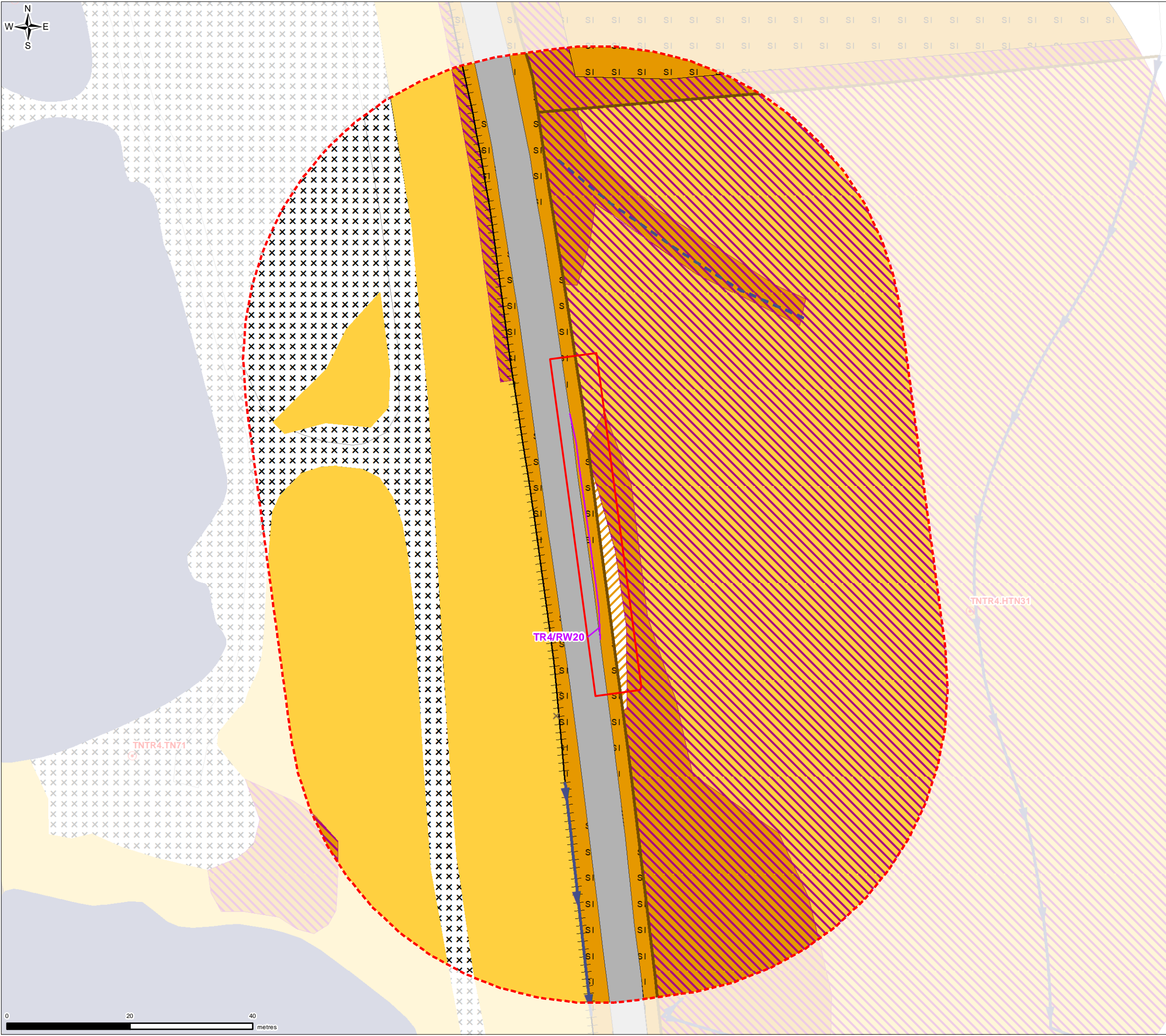


FIGURE 5

Legend


- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Target note
- Scattered bracken
- Running water
- Dry ditch
- Fence
- Wall
- Semi-improved acid grassland
- Semi-improved neutral grassland
- Marsh/marshy grassland
- Continuous bracken
- Acid dry dwarf shrub heath
- Wet dwarf shrub heath
- Standing water
- Dense/continuous ephemeral/short perennial
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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<div><p>Water for the North West</p></div>					
PROJECT UNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 11 OF 31					
SCALE 1:600					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.11					REVISION 0

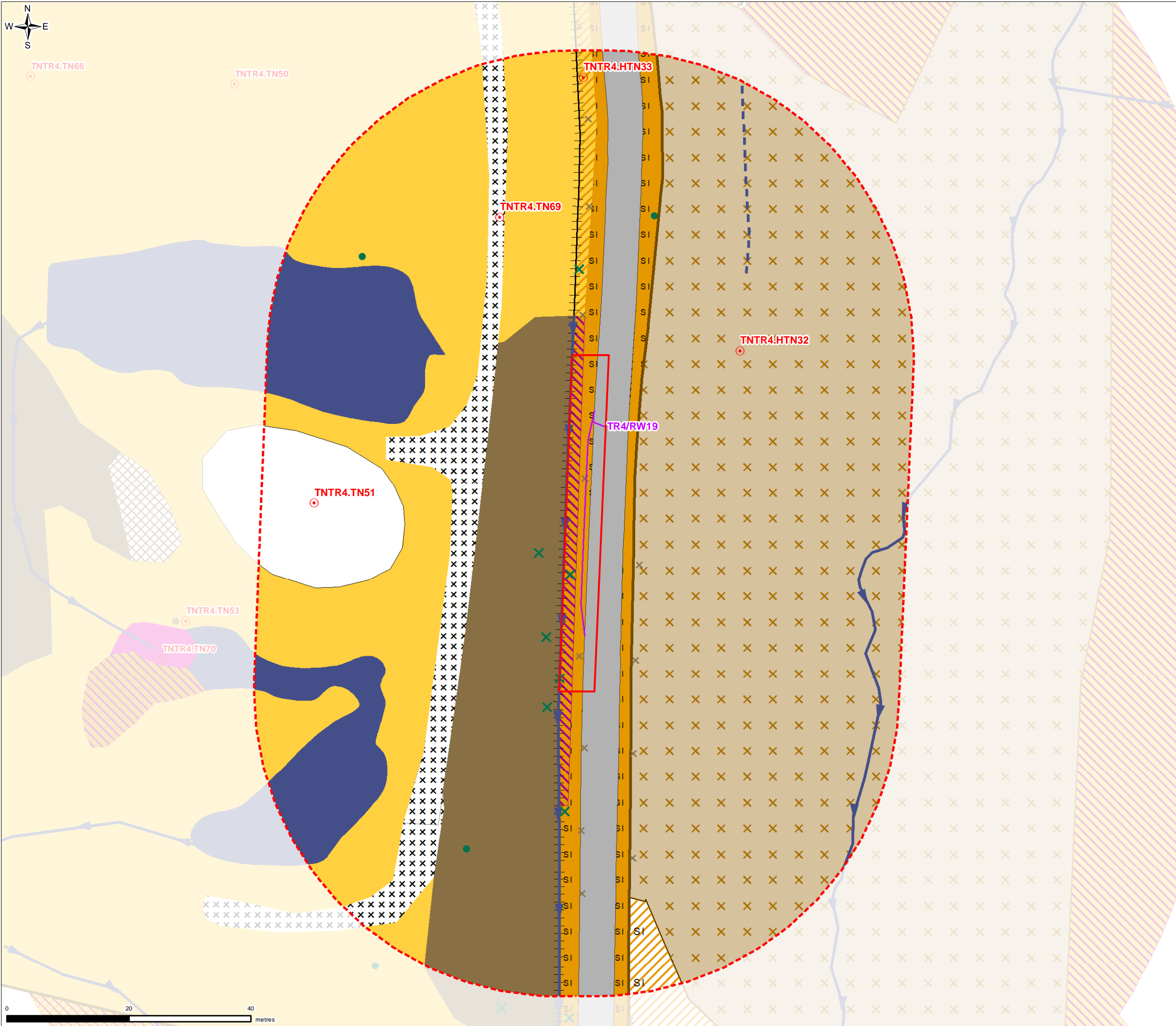


FIGURE 5

Legend

Highways improvement works

Highways improvement works - 50m buffer

Road widening

Phase Habitat 1 Survey

Target note

Scattered scrub

Scattered broad-leaved tree

Scattered bracken

Scattered introduced shrub

Running water

Dry ditch

Fence

Wall

Semi-improved acid grassland

Semi-improved neutral grassland

Marsh/marshy grassland

Continuous bracken

Acid dry dwarf shrub heath

Wet dwarf shrub heath

Dry heath/acid grassland mosaic

Wet heath/acid grassland mosaic

Acid/neutral flush

Standing water

Dense/continuous ephemeral/short perennial

Introduced shrub

Other habitat

Hardstanding

Target note

Scattered scrub

Scattered broad-leaved tree

Scattered bracken

Scattered introduced shrub

Running water

Dry ditch

Fence

Wall

Semi-improved acid grassland

Semi-improved neutral grassland

Marsh/marshy grassland

Continuous bracken

Acid dry dwarf shrub heath

Note:

The locations of habitats and habitat features are indicative.

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<div><div><div><div><div></div><div>United Utilities</div><div>Water for the North West</div></div></div><div>PROJECT</div><div>UNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 12 OF 31</div></div></div>					
SCALE 1:600					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.12					REVISION 0

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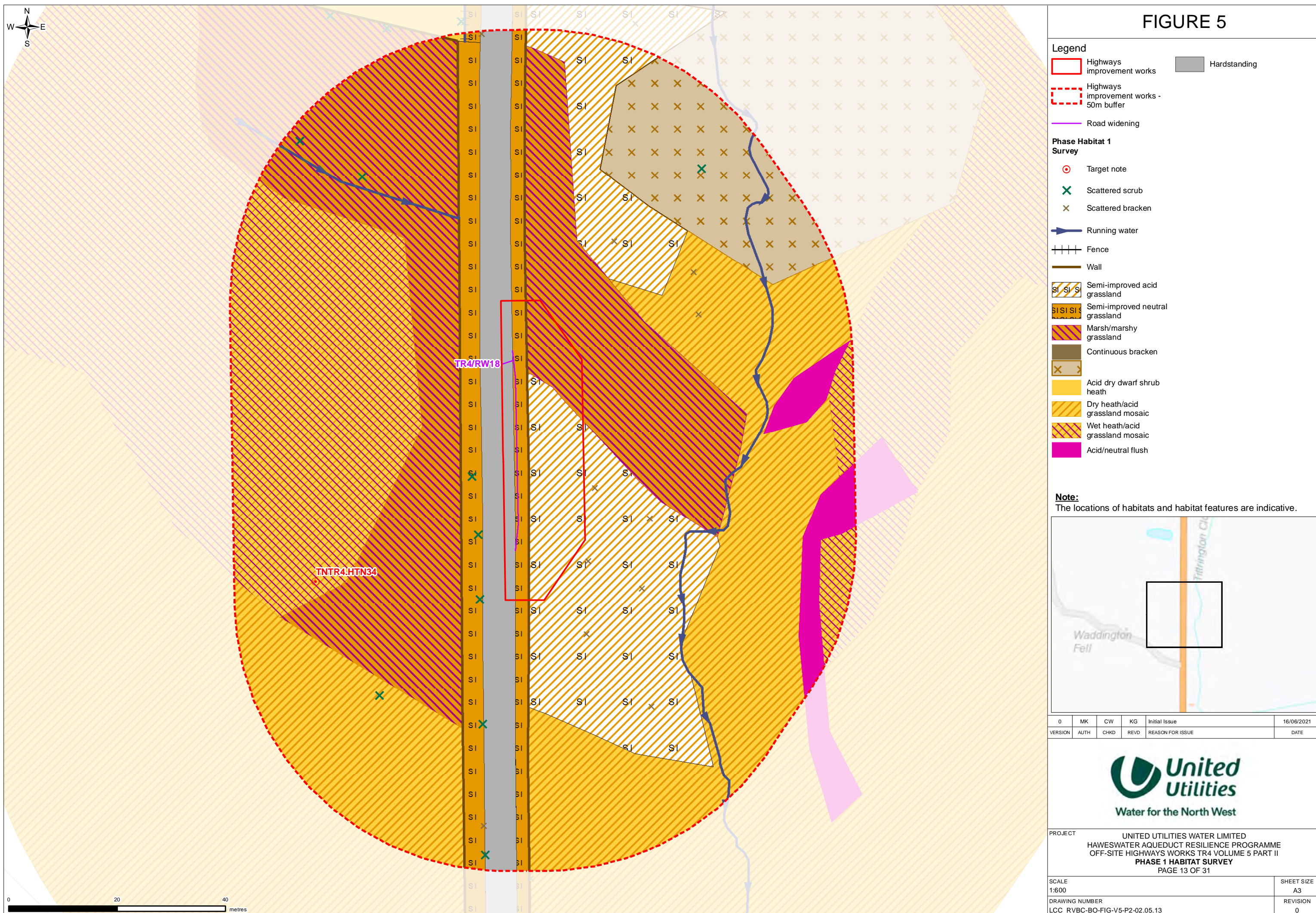


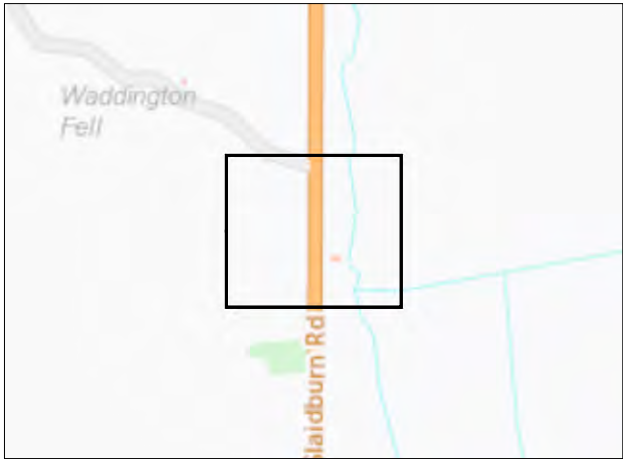


FIGURE 5

Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening
- Bare ground
- Hardstanding
- Phase Habitat 1 Survey
 - Target note
 - Scattered scrub
 - Scattered broad-leaved tree
 - Scattered coniferous tree
 - Scattered bracken
 - Running water
 - Fence
 - Wall
 - Dense/continuous scrub
 - Semi-improved acid grassland
 - Semi-improved neutral grassland
 - Poor semi-improved grassland
 - Wet dwarf shrub heath
 - Dry heath/acid grassland mosaic
 - Wet heath/acid grassland mosaic

Note:
The locations of habitats and habitat features are indicative.



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OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II
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SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.14	REVISION 0



FIGURE 5

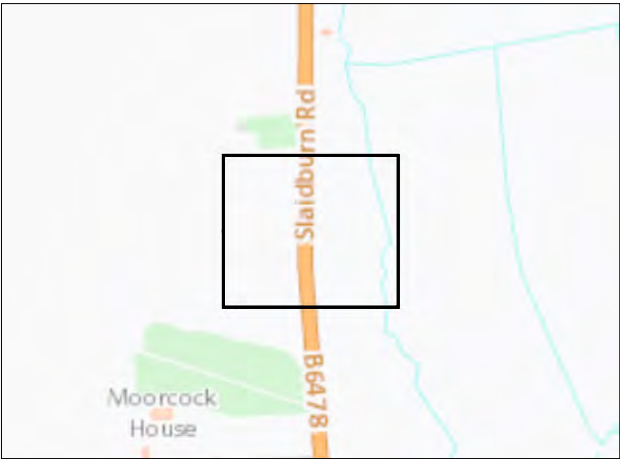
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Target note
- Scattered scrub
- Scattered broad-leaved tree
- Scattered coniferous tree
- Scattered bracken
- Running water
- Fence
- Wall
- Semi-improved acid grassland
- Semi-improved neutral grassland
- Marsh/marshy grassland
- Dry heath/acid grassland mosaic
- Bare ground
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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PROJECT UNITED UTILITIES WATER LIMITED
HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
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PHASE 1 HABITAT SURVEY
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SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.15	REVISION 0



FIGURE 5

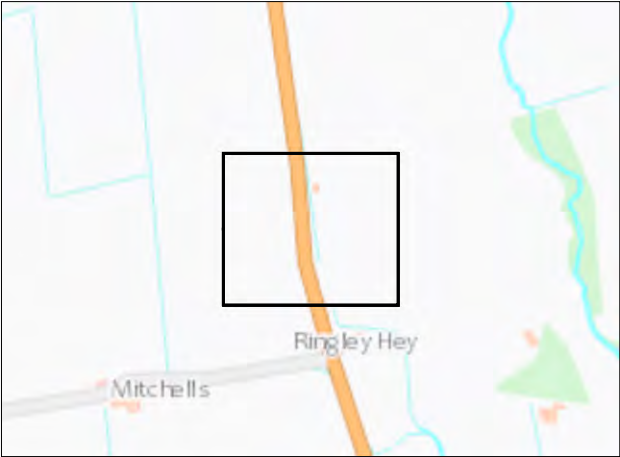
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Target note
- Scattered scrub
- Scattered broad-leaved tree
- Scattered coniferous tree
- Scattered bracken
- Running water
- Fence
- Wall
- Dense/continuous scrub
- Semi-improved neutral grassland
- Marsh/marshy grassland
- Poor semi-improved grassland
- Bare ground
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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VERSION	AUTH	CHKD	REVD	REASON FOR ISSUE	DATE



PROJECT
UNITED UTILITIES WATER LIMITED
HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II
PHASE 1 HABITAT SURVEY
PAGE 16 OF 31

SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.16	REVISION 0

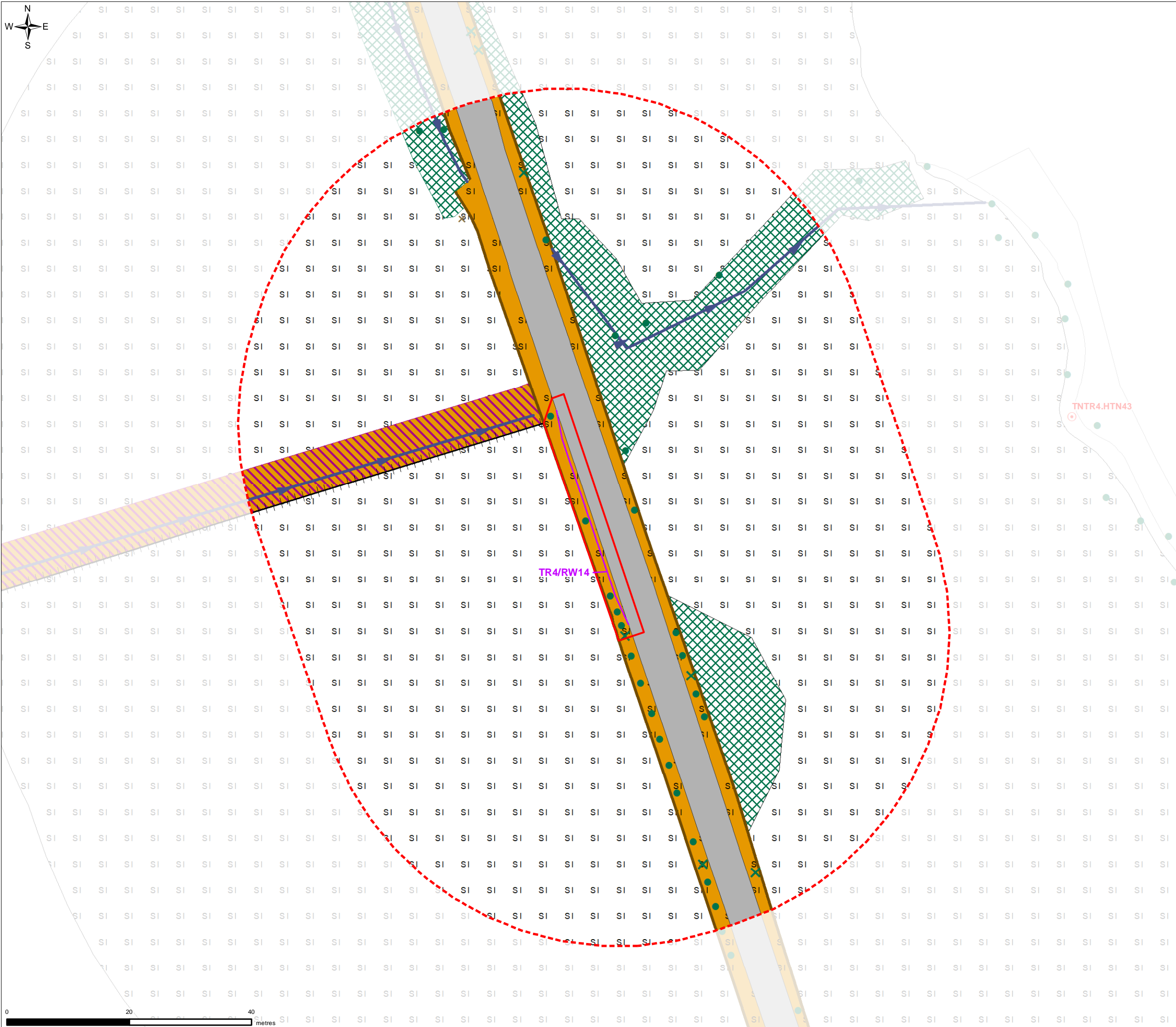


FIGURE 5

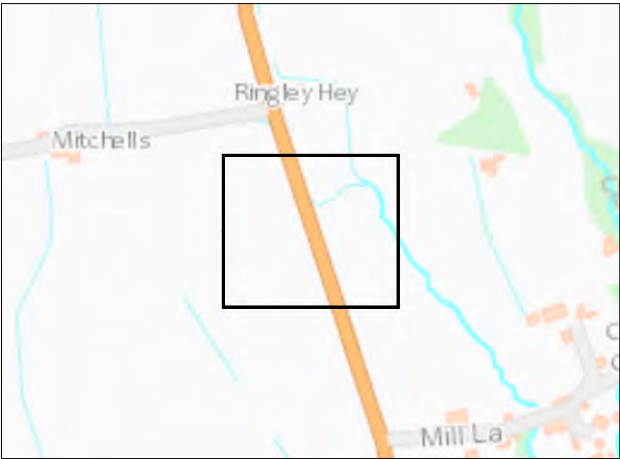
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Target note
- Scattered scrub
- Scattered broad-leaved tree
- Scattered bracken
- Running water
- Fence
- Wall
- Dense/continuous scrub
- Semi-improved neutral grassland
- Marsh/marshy grassland
- Poor semi-improved grassland
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.17	REVISION 0

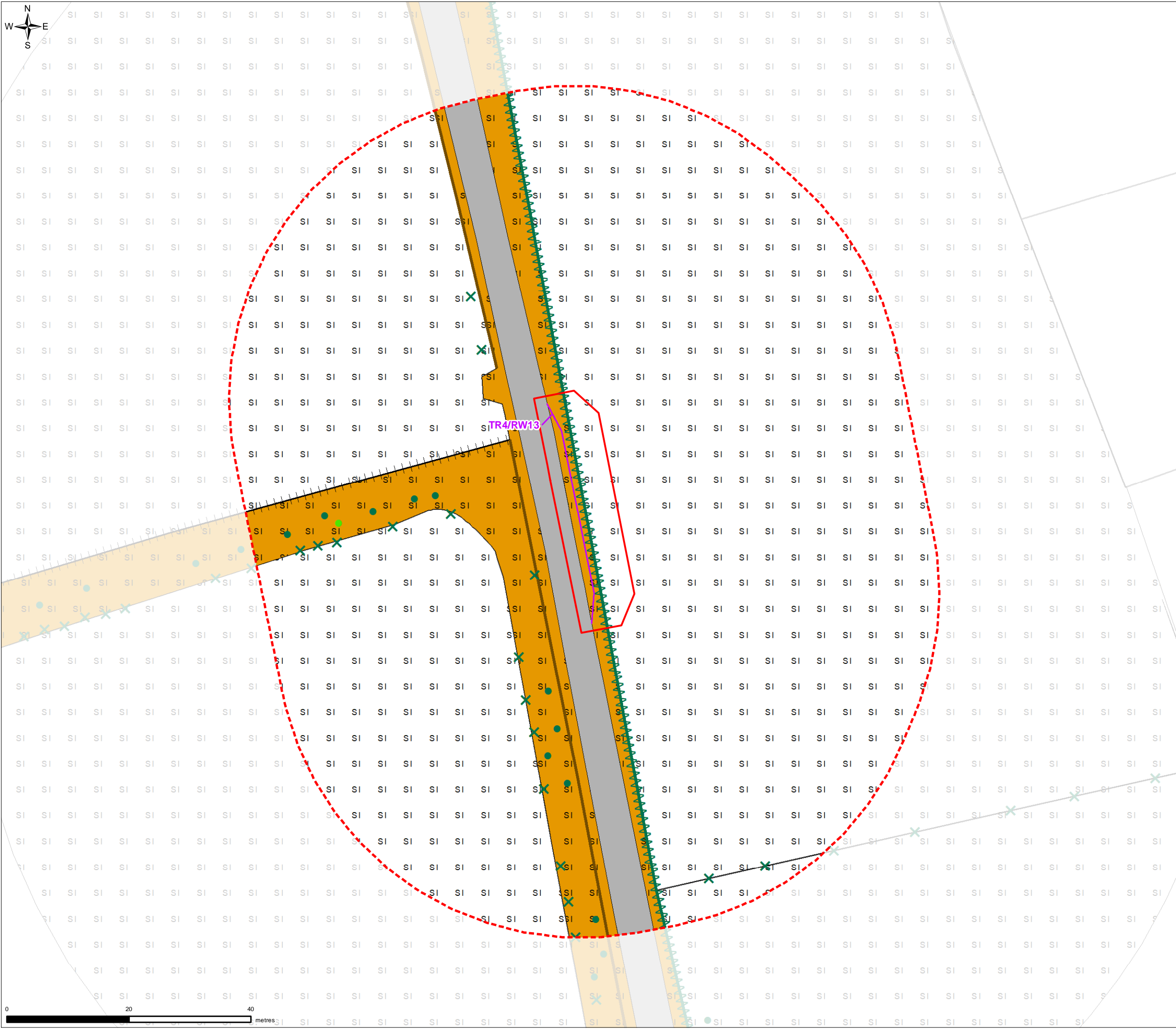


FIGURE 5

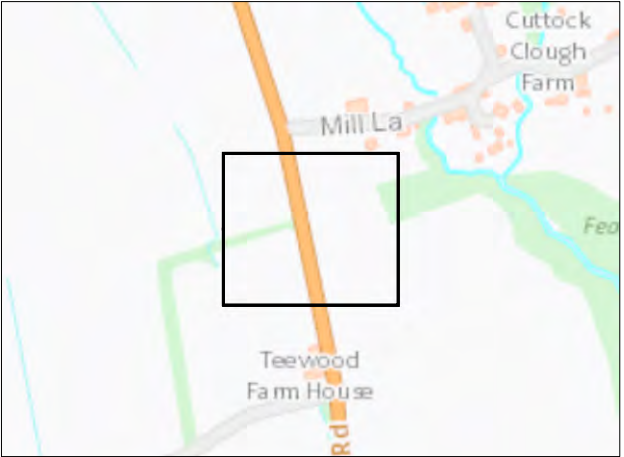
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Scattered scrub
- Scattered broad-leaved tree
- Scattered coniferous tree
- Native species-rich intact hedge
- Fence
- Wall
- Semi-improved neutral grassland
- Poor semi-improved grassland
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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PROJECT	UNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 18 OF 31
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SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.18	REVISION 0



FIGURE 5

Legend

Highways improvement works

Highways improvement works - 50m buffer

Road widening

Private garden

Hardstanding

Phase Habitat 1 Survey

Target note

Himalayan balsam

Scattered broad-leaved tree

Running water

Native species-rich intact hedge

Species-poor defunct hedge

Native species-rich hedge and trees

Fence

Wall

Semi-natural broad-leaved woodland

Semi-improved neutral grassland

Improved grassland

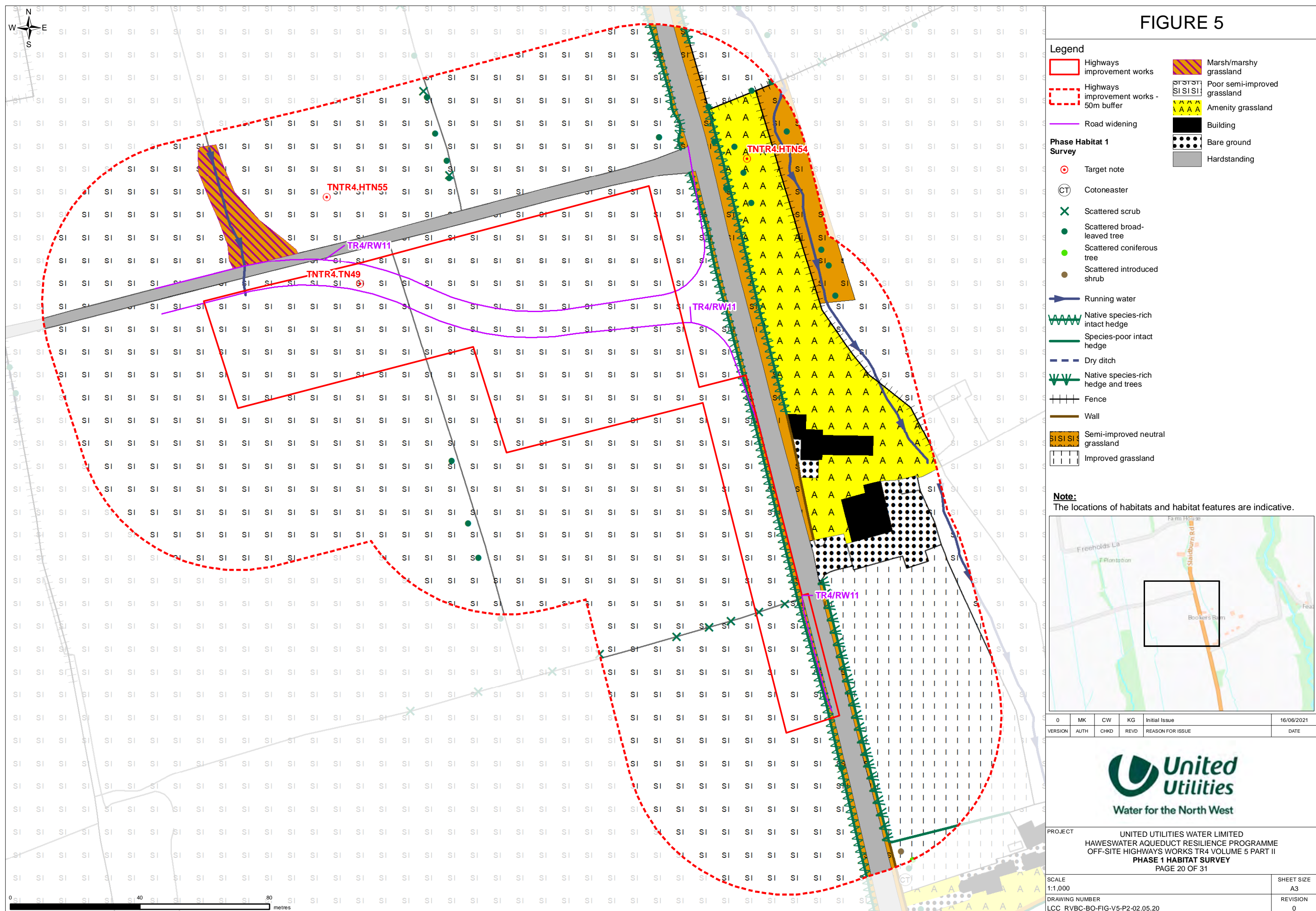
Poor semi-improved grassland

Building

Note:
The locations of habitats and habitat features are indicative.



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<div><div></div><div>Water for the North West</div></div>					
PROJECTUNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 19 OF 31					
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DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.19					REVISION 0



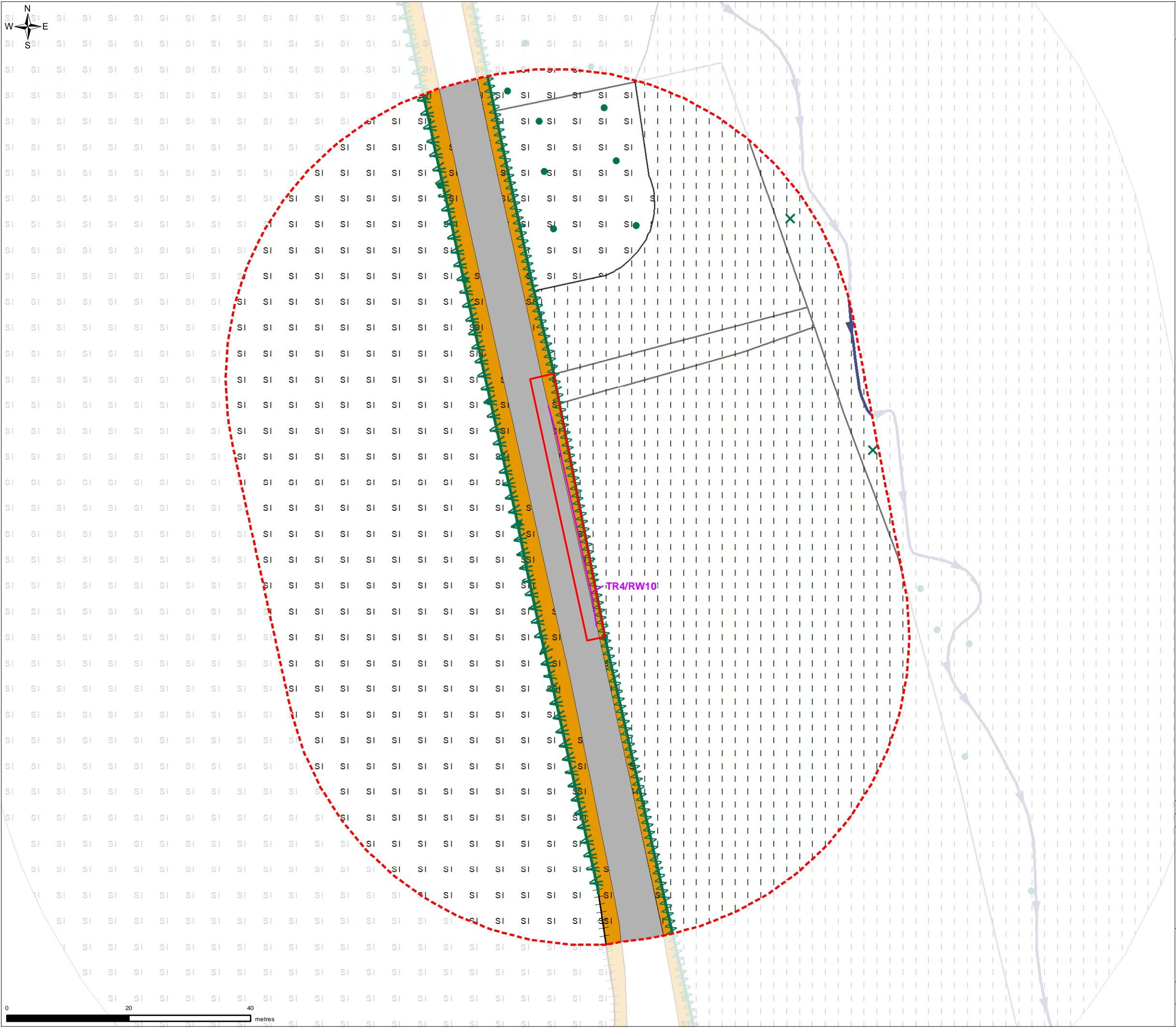


FIGURE 5

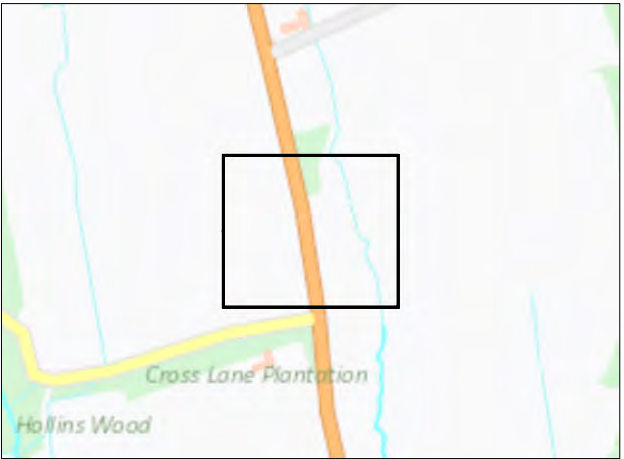
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Scattered scrub
- Scattered broad-leaved tree
- Running water
- Native species-rich intact hedge
- Native species-rich hedge and trees
- Fence
- Semi-improved neutral grassland
- Improved grassland
- Poor semi-improved grassland
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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PROJECT	UNITED UTILITIES WATER LIMITED HAWESWATER AQUEDUCT RESILIENCE PROGRAMME OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II PHASE 1 HABITAT SURVEY PAGE 21 OF 31
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SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.21	REVISION 0



FIGURE 5

- Legend**
- Highways improvement works
 - Highways improvement works - 50m buffer
 - Road widening
 - Phase Habitat 1 Survey
 - Target note
 - Scattered scrub
 - Scattered broad-leaved tree
 - Running water
 - Native species-rich intact hedge
 - Native species-rich hedge and trees
 - Fence
 - Wall
 - Semi-natural broad-leaved woodland
 - Plantation coniferous woodland
 - Improved grassland
 - Poor semi-improved grassland
 - Amenity grassland
 - Building
 - Bare ground
 - Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
OFF-SITE HIGHWAYS WORKS TR4 VOLUME 5 PART II
PHASE 1 HABITAT SURVEY
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SCALE 1:600	SHEET SIZE A3
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FIGURE 5

Legend

Highways improvement works

Highways improvement works - 50m buffer

Road widening

Bare ground

Hardstanding

Phase Habitat 1 Survey

Target note

Scattered scrub

Scattered broad-leaved tree

Running water

Native species-rich intact hedge

Species-poor intact hedge

Native species-rich hedge and trees

Fence

Wall

Semi-natural broad-leaved woodland

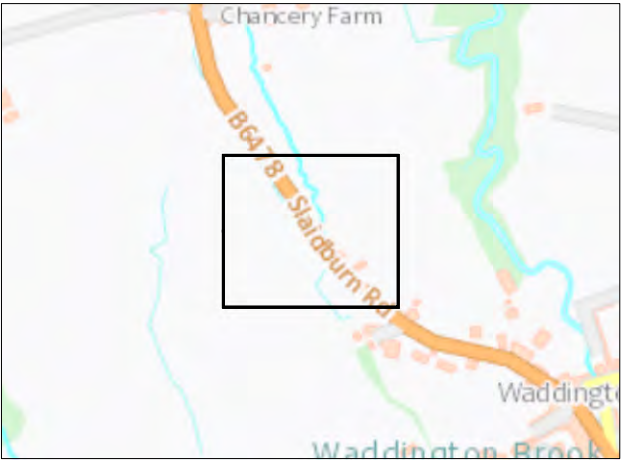
Dense/continuous scrub

Poor semi-improved grassland

Amenity grassland

Building

Note:
The locations of habitats and habitat features are indicative.



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SCALE 1:600					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.23					REVISION 0

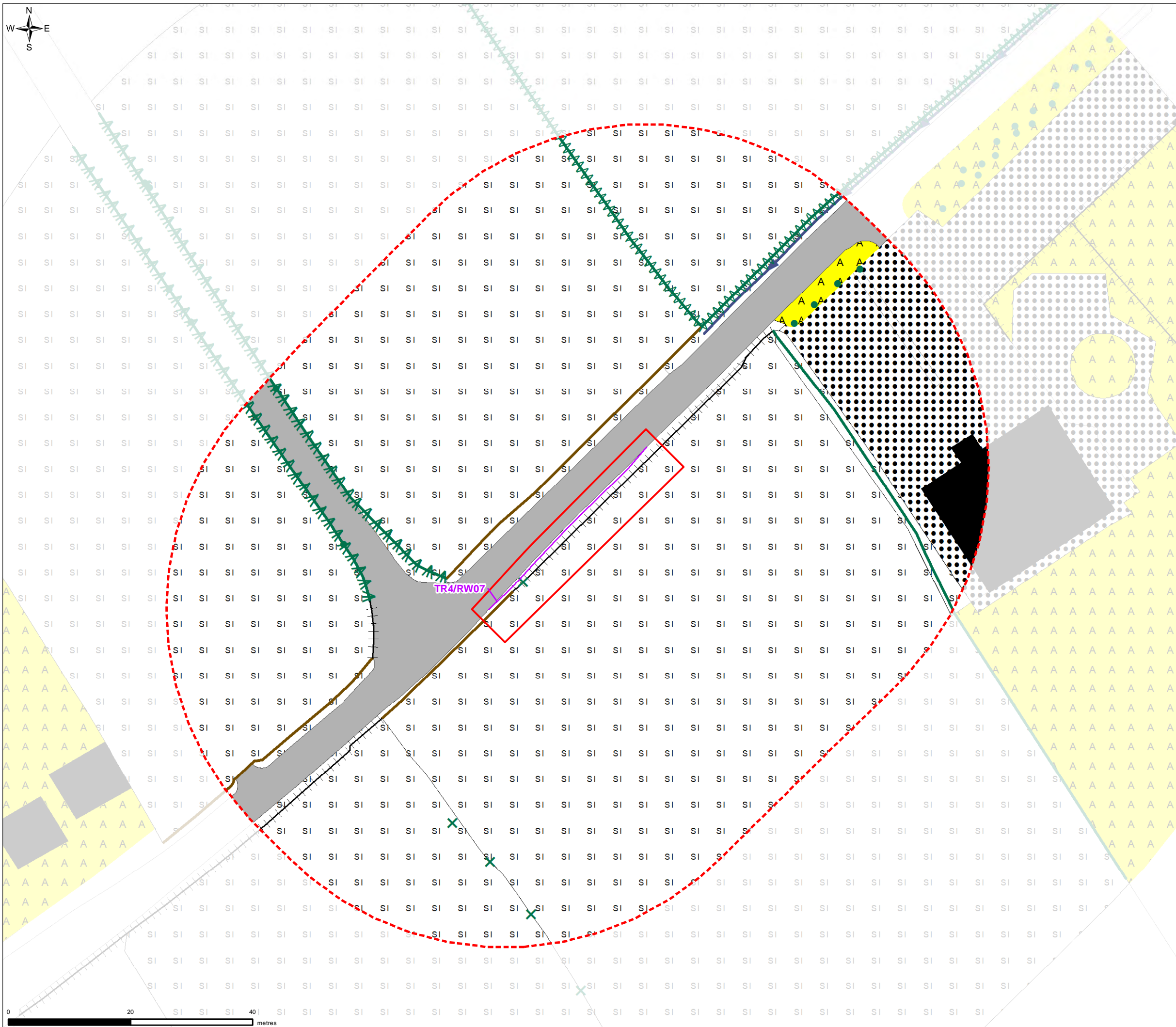


FIGURE 5

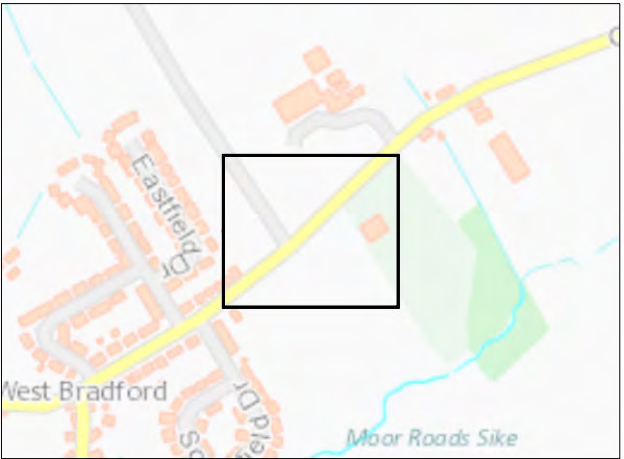
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Scattered scrub
- Scattered broad-leaved tree
- Running water
- Native species-rich intact hedge
- Species-poor intact hedge
- Native species-rich hedge and trees
- Fence
- Wall
- Poor semi-improved grassland
- Amenity grassland
- Building
- Bare ground
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.

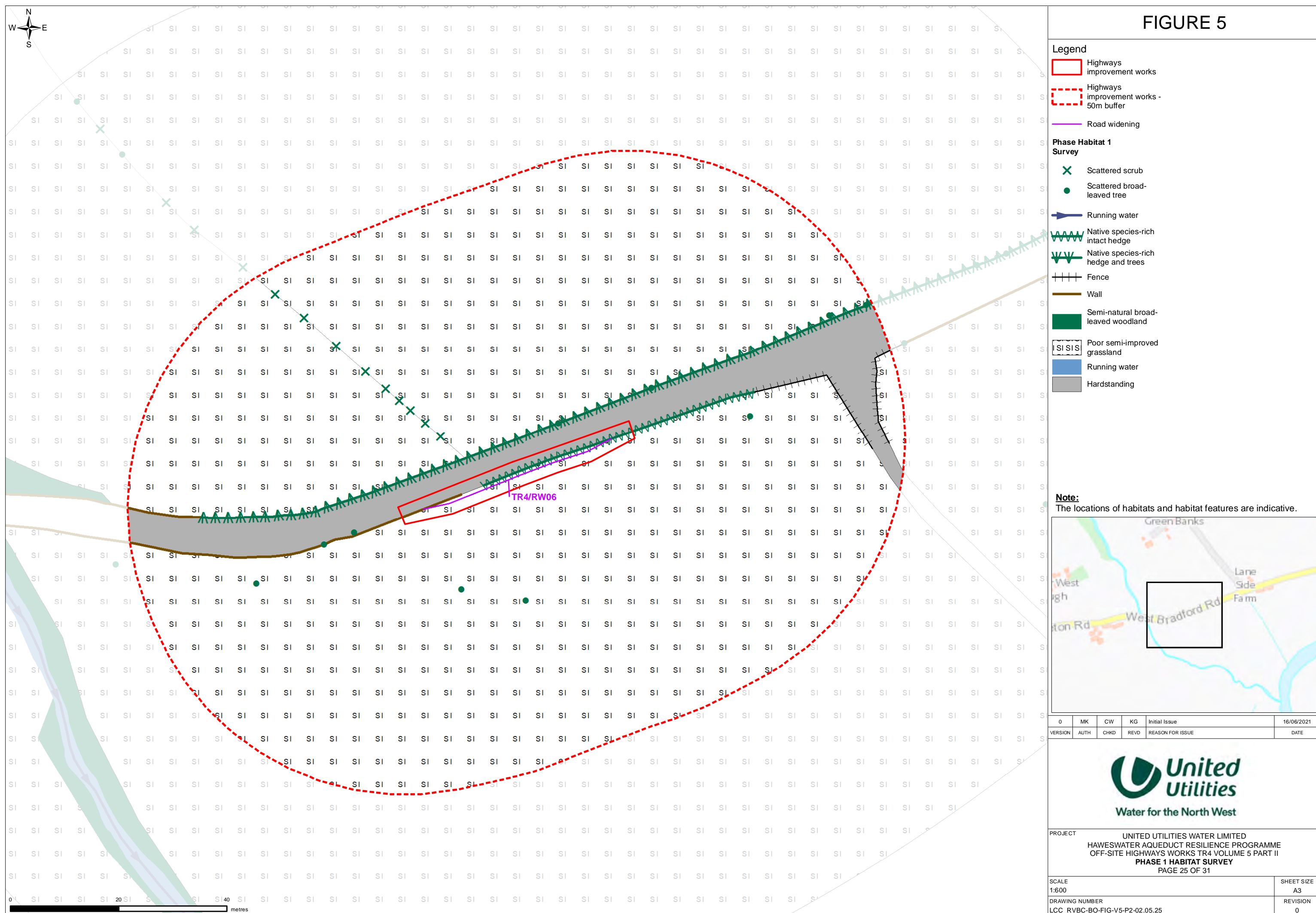


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HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
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PHASE 1 HABITAT SURVEY
PAGE 24 OF 31

SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.24	REVISION 0



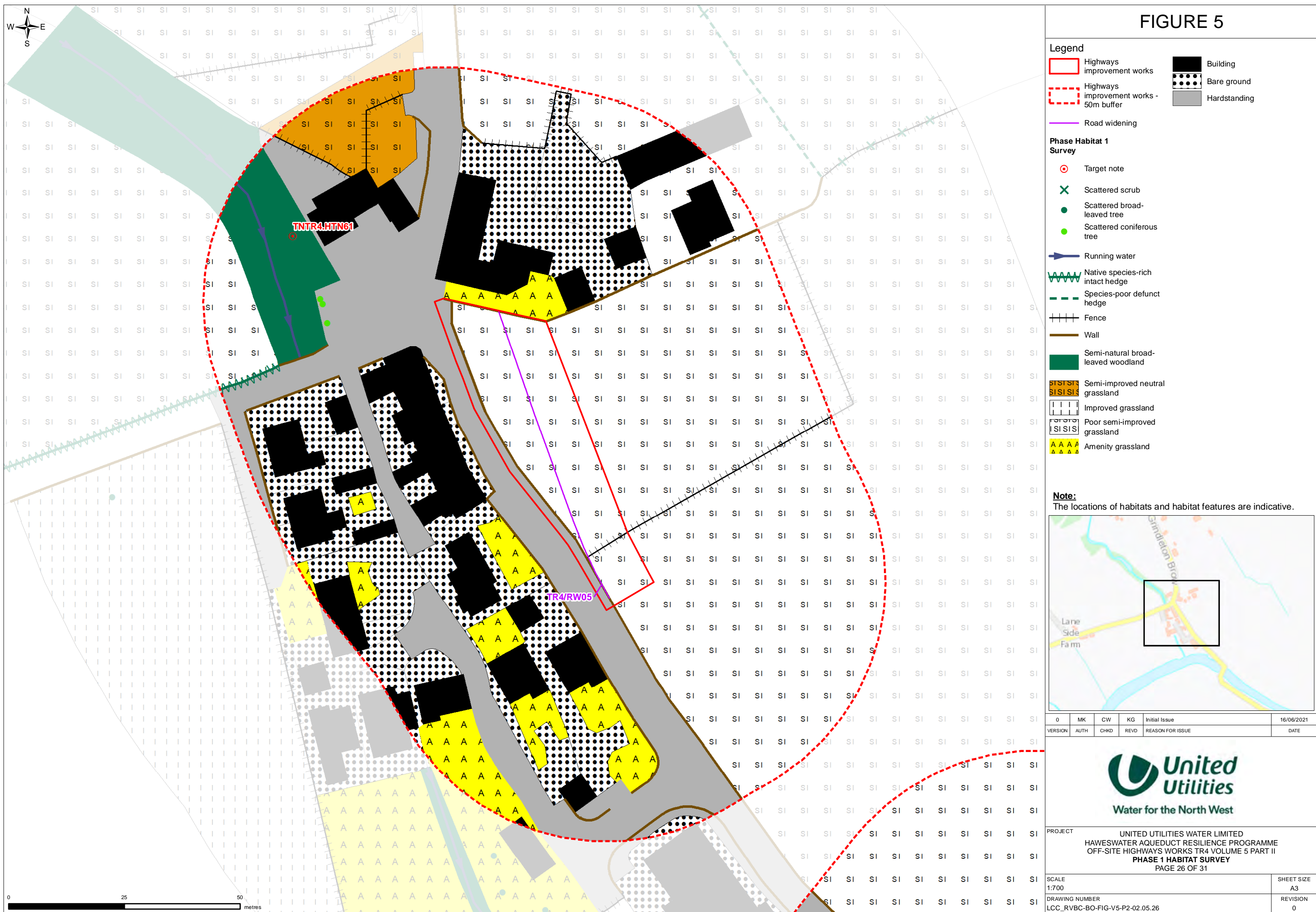
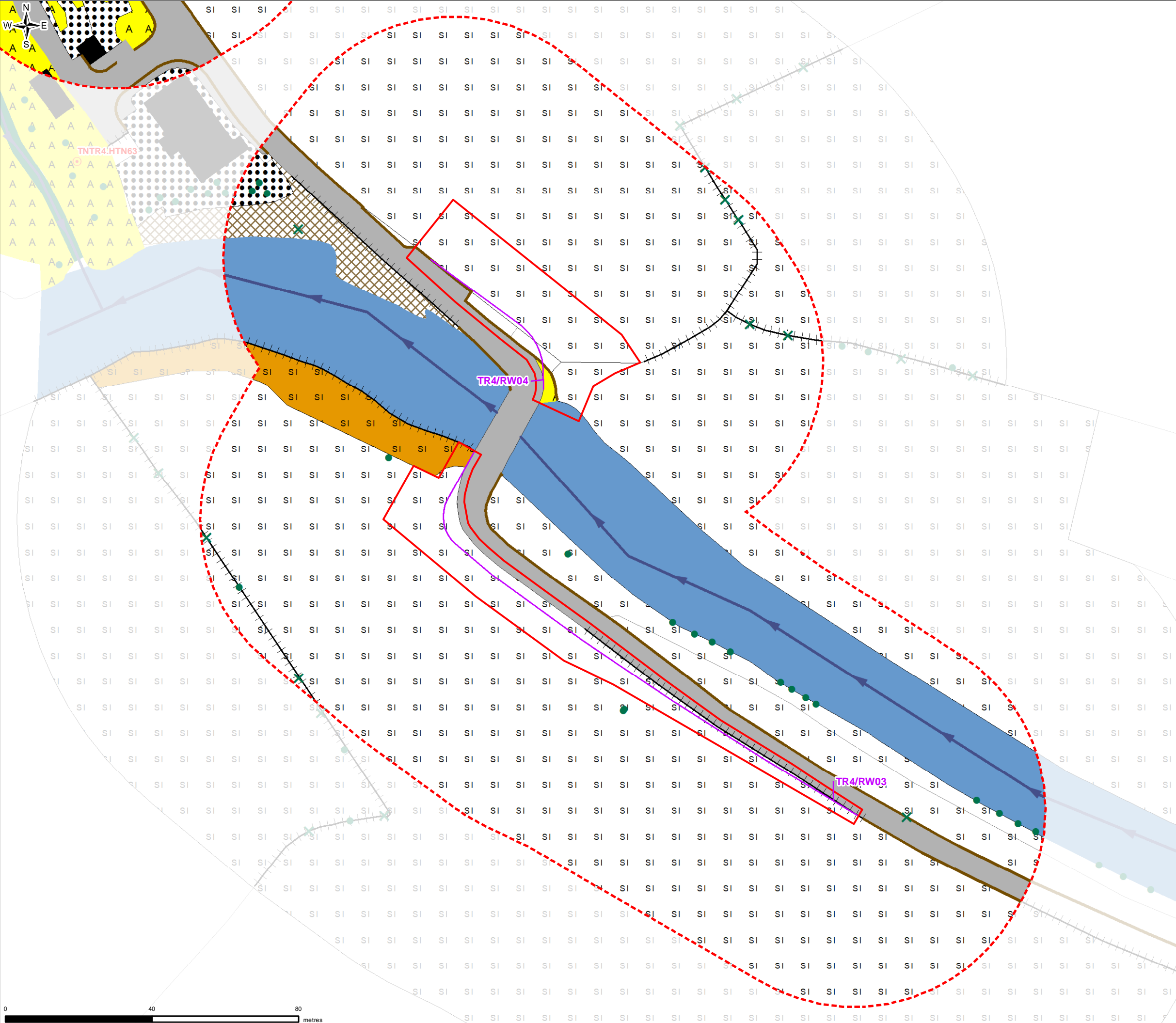


FIGURE 5



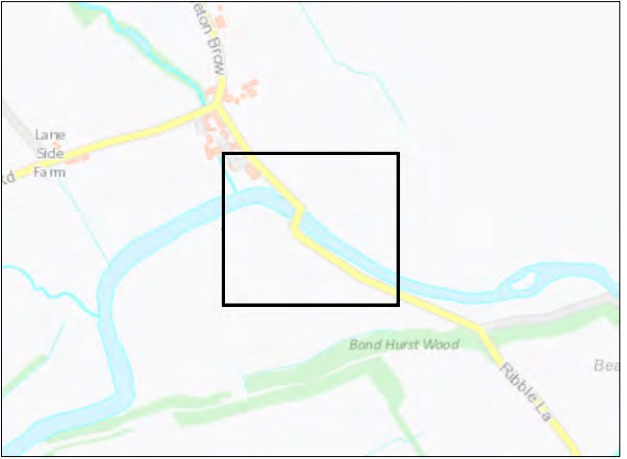
Legend

- Highways improvement works
- Highways improvement works - 50m buffer
- Road widening

Phase Habitat 1 Survey

- Target note
- Scattered scrub
- Scattered broad-leaved tree
- Running water
- Fence
- Wall
- Semi-natural broad-leaved woodland
- Semi-improved neutral grassland
- Poor semi-improved grassland
- Running water
- Amenity grassland
- Introduced shrub
- Building
- Bare ground
- Hardstanding

Note:
The locations of habitats and habitat features are indicative.



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PHASE 1 HABITAT SURVEY
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SCALE 1:1,000	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.27	REVISION 0

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FIGURE 5

Highways improvement works

Highways improvement works - 50m buffer

Road widening

SI SI SI

Poor semi-improved grassland

Running water

Hardstanding

Phase Habitat 1 Survey

Target note

Scattered scrub

Scattered broad-leaved tree

Scattered coniferous tree

Running water

Native species-rich intact hedge

Native species-rich defunct hedge

Fence

Wall

Semi-natural broad-leaved woodland

Plantation broad-leaved woodland

Dense/continuous scrub

Semi-improved neutral grassland

Note:
The locations of habitats and habitat features are indicative.

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SCALE 1:600					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.28					REVISION 0

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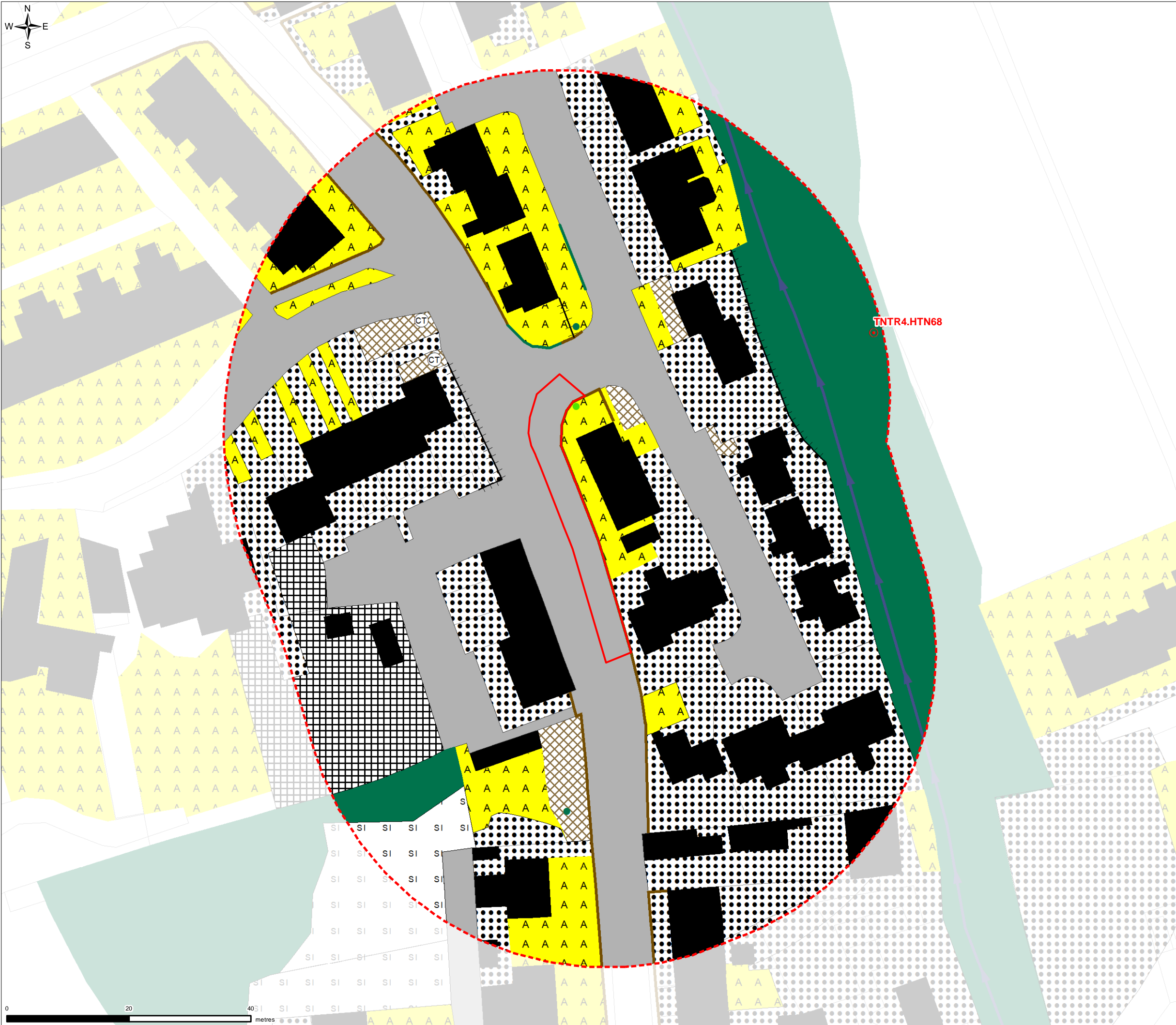


FIGURE 5

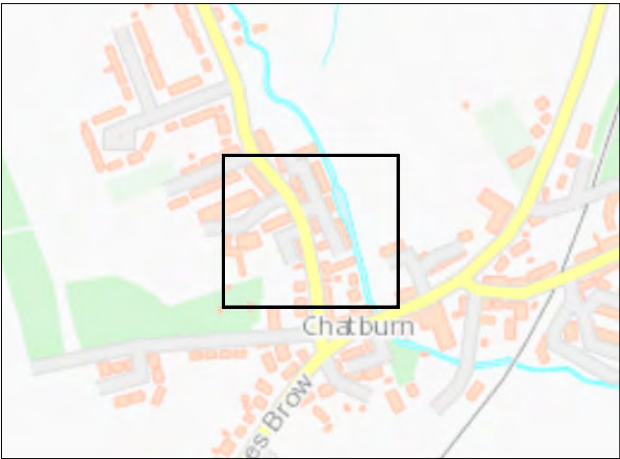
Legend

- Highways improvement works
- Highways improvement works - 50m buffer

Phase Habitat 1 Survey

- Target note
- Cotoneaster
- Scattered broad-leaved tree
- Scattered coniferous tree
- Running water
- Species-poor intact hedge
- Fence
- Wall
- Semi-natural broad-leaved woodland
- Poor semi-improved grassland
- Amenity grassland
- Introduced shrub
- Building
- Bare ground
- Hardstanding
- Not surveyed

Note:
The locations of habitats and habitat features are indicative.



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UNITED UTILITIES WATER LIMITED
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SCALE 1:600	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.29	REVISION 0

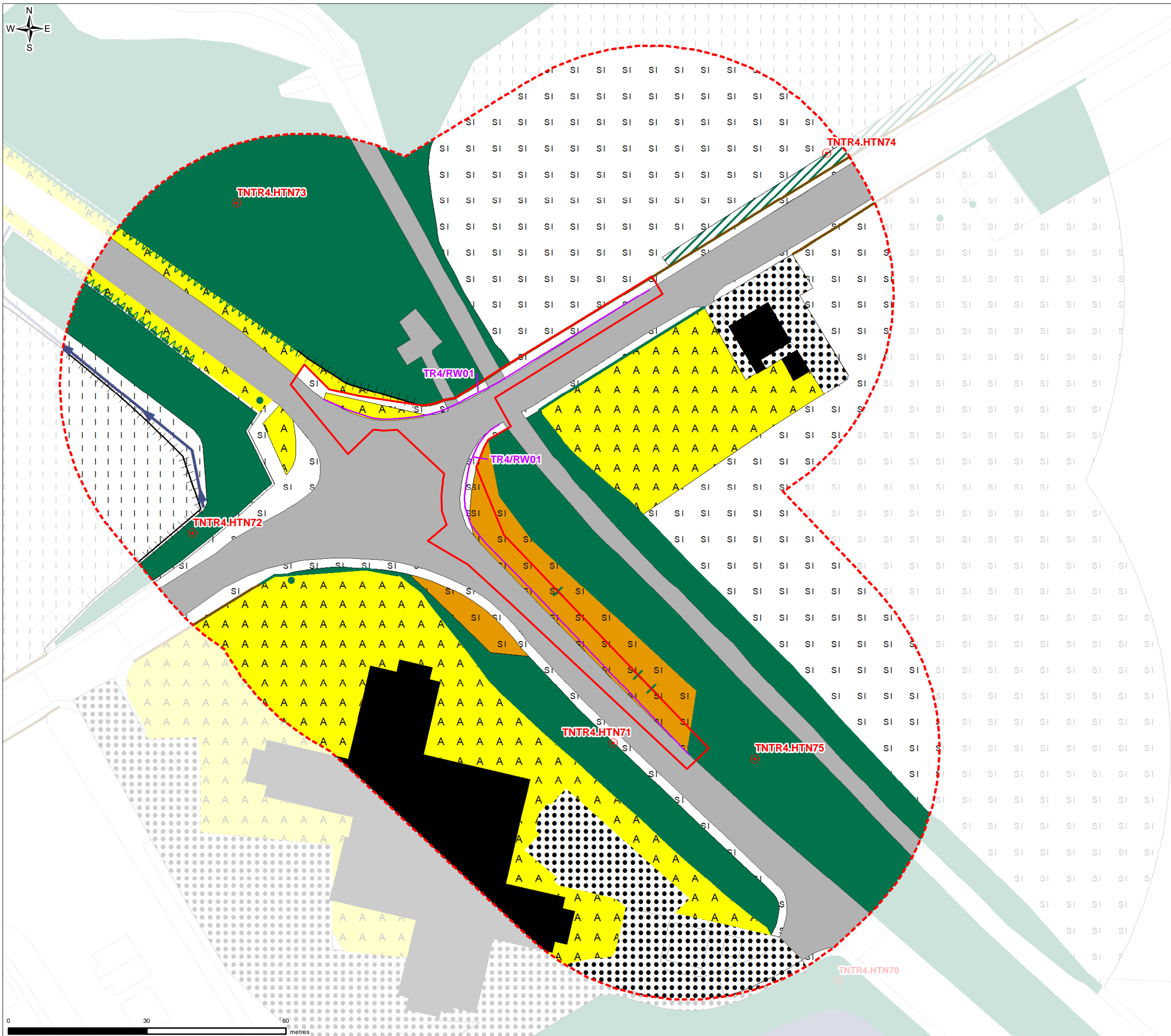


FIGURE 5

Highways improvement works

Highways improvement works - 50m buffer

Road widening

Standing water

Amenity grassland

Building

Bare ground

Hardstanding

Phase Habitat 1 Survey

Target note

Scattered scrub

Scattered broad-leaved tree

Running water

Native species-rich intact hedge

Species-poor intact hedge

Native species-rich defunct hedge

Fence

Wall

Semi-natural broad-leaved woodland

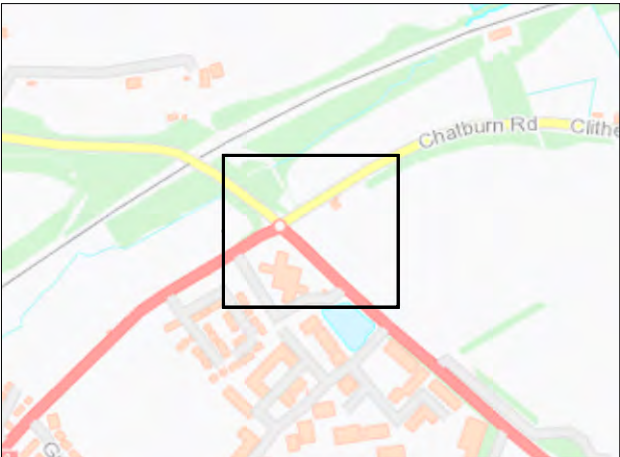
Plantation broad-leaved woodland

Semi-improved neutral grassland

Improved grassland

Poor semi-improved grassland

Note:
The locations of habitats and habitat features are indicative.



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SCALE 1:800					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.30					REVISION 0

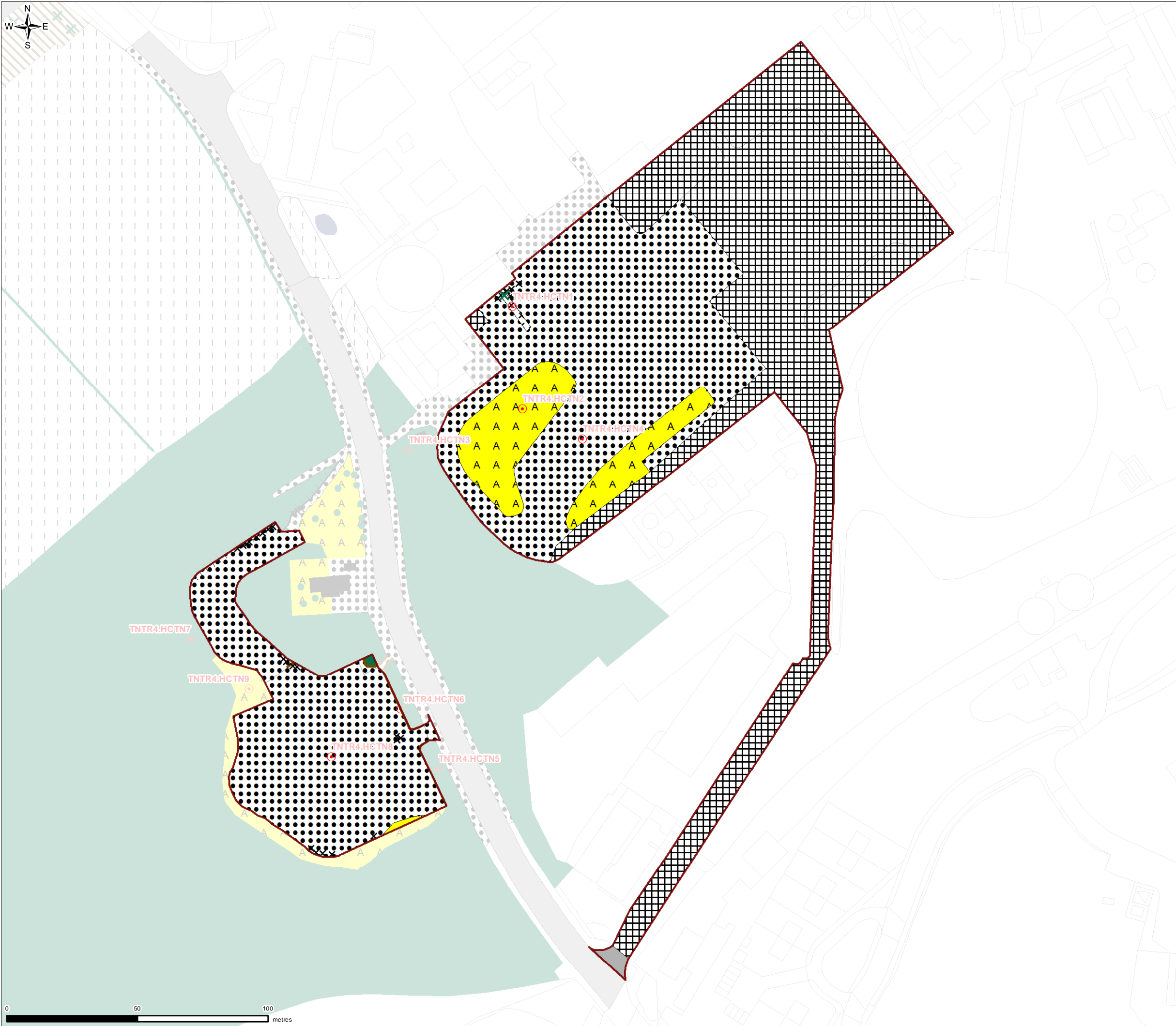



FIGURE 5

Legend

- Proposed works at Clitheroe
- Phase Habitat 1 Survey
 - Target note
 - Scattered scrub
 - Scattered broad-leaved tree
 - Ephemeral/short perennial
 - Species-poor intact hedge
 - Fence
 - Wall
 - Semi-natural broad-leaved woodland
 - Improved grassland
 - Tall ruderal
 - Standing water
 - Amenity grassland
 - Dense/continuous ephemeral/short perennial
 - Building
 - Bare ground
 - Hardstanding
 - Not surveyed

Note:
The locations of habitats and habitat features are indicative.



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SCALE 1:1,400					SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-FIG-V5-P2-02.05.31					REVISION 0