

Norwich Western Link

Environmental Statement

Chapter 13: Geology & Soils

Appendix 13.3: Ground

Contamination Interpretive

Report – Addendum

Part 3 of 3

Author: Ferrovial Construction and Ramboll UK Ltd

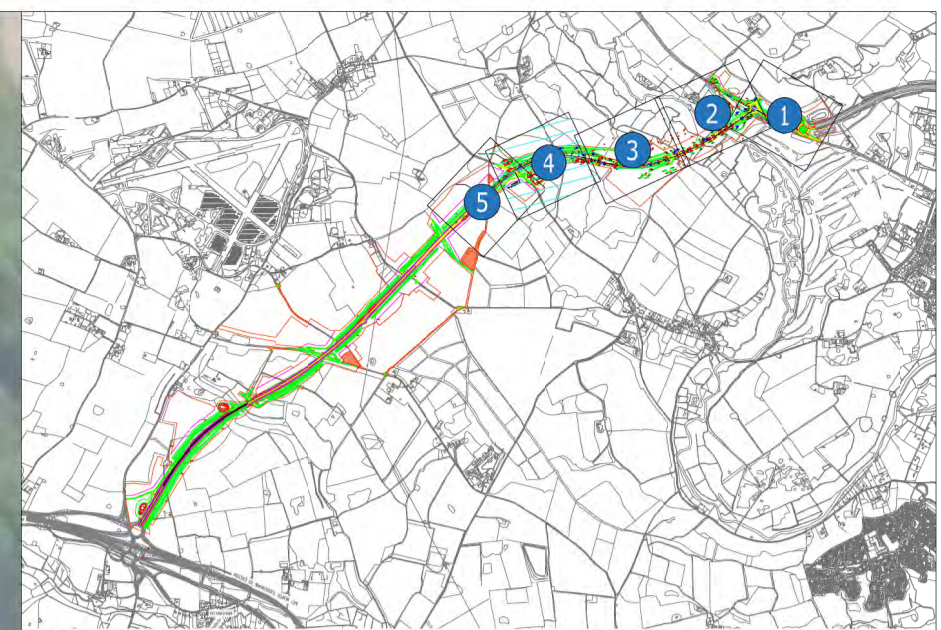
Document Reference: 3.13.03d

Version Number: 00

Date: March 2024

FIGURES

FIGURE 2 EXPLORATORY HOLE LOCATION PLAN



Key:
 Site extents boundary

- Notes:**
- Do not scale from this drawing.
 - All dimensions are in metres unless otherwise stated.
 - This drawing is to be read with all other relevant drawings and reports. Any discrepancies, errors or omissions to be brought to the attention of the designer.
 - This drawing must not be used for construction. This drawing does not show hazards and residual risks.
 - Additional boreholes with rotary follow-on may be required at some of the wensum viaduct pier locations. Number to be confirmed during the ground investigation.
 - BH232 and BH248 may need to be relocated to gain suitable access.
 - BH249 and BH250 may need to be relocated to avoid trees.
 - TR203, TP233, TP234 may need to be relocated to avoid skylark nests.
 - Groundwater monitoring installations at the following locations: BH201, BH203, BH206, BH210, BH221, BH226, BH228, BH229, BH231, BH233, BH235, BH236, BH237, BH241, BH243, BH245, BH246, WS211, WS212, WS213, WS214, WS215 and WS216.
 - Provisionally allow for an additional 20 trial pits south of CH2400 in the cuttings along main line. Positions to be agreed.
 - TP235, 236, 237, 238, WS218 positions may need to be relocated depending on the position of the infiltration pond(s).
 - WS207 may need to be relocated to avoid trees and bat roosts.
 - The locations of BH206, 208, 209, 211, 212, 255, 256, and CPT201 are approximate until the new arrangement has been fixed.
 - Lightweight deflectometer tests to be carried out at the following locations: WS208, WS209, WS210 (1 No. at each WS location) TR201, TR202, TR203 (3 No. at each trench location), TP202, TP204, TP241 to TP250, TP211, TP212, TP213, TP231, TP232, TP233, TP234, TP251; and TP252 (1 no. at pit location).
 - Plate bearing tests at TR201, TR202, TR203 (3 no. at each tr location), TP241 to TP250, TP211, TP212, TP213, TP231, TP232, TP233, TP234, TP251, and TP252 (1 no. at TP location).
 - Sand Replacement Tests at each Plate Bearing test location.
 - Allow for an additional 2 no. trial pits with infiltration testing south of Green Bridge 4. Positions to be agreed.
 - Allow for an additional 2 no. trial pits with infiltration testing near to Green Bridge 5B1. Positions to be agreed.
 - BH210 and BH211 are rotary open-holed from ground level.

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P03	SK	CM	AR	16/03/2022
ADDITIONAL EXPLORATORY HOLES AND IN SITU TESTING				
P02	SK	CM	AR	04/03/2022
REVISED POSITIONS				
P01	SK	CM	AR	25/02/2022

REVISION	DRAWN	CHECKED	APPROVED	DATE
CLIENT				

Norfolk County Council
 Tom McCabe
 Executive Director of
 Community and Environmental Services
 Norfolk County Council
 County Hall, Martineau Lane
 Norwich NR1 2SG

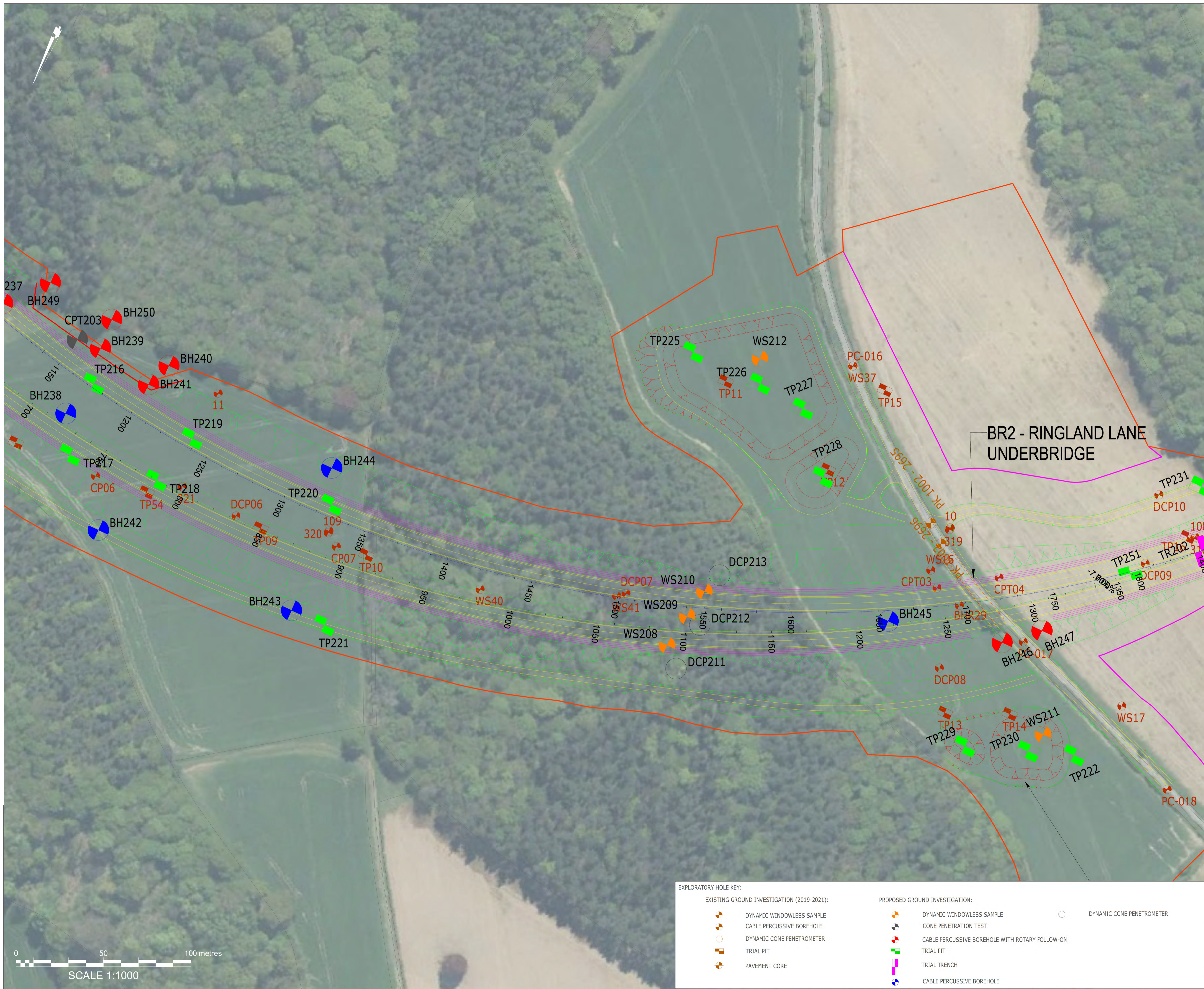
PROJECT **TENDERER**

DRAWING TITLE
 NORWICH WESTERN LINK ROAD ALIGNMENT REFINEMENT
 PROPOSED EXPLORATORY HOLE LOCATION PLAN
 SHEET 4 OF 5

DRAWING STATUS
 PRELIMINARY

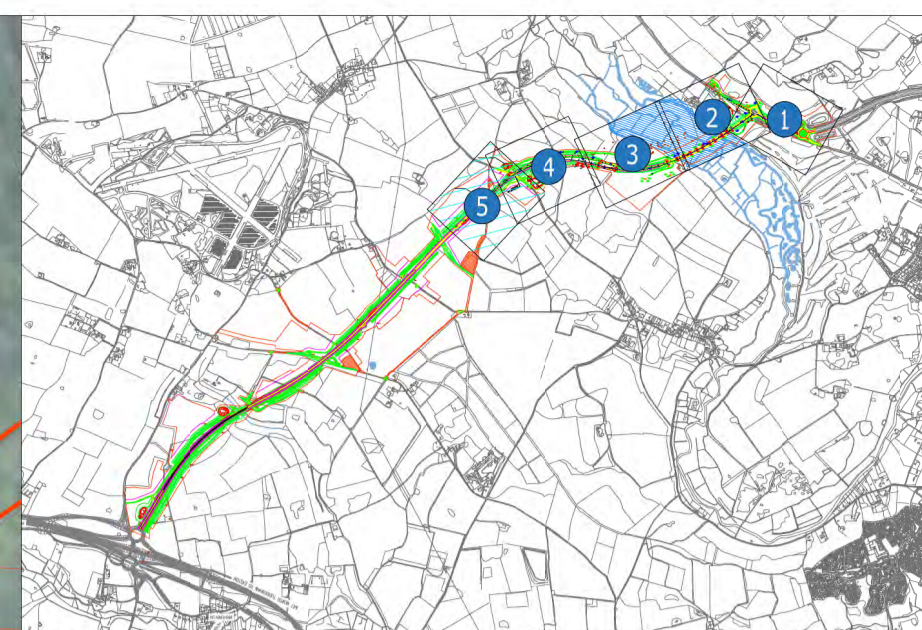
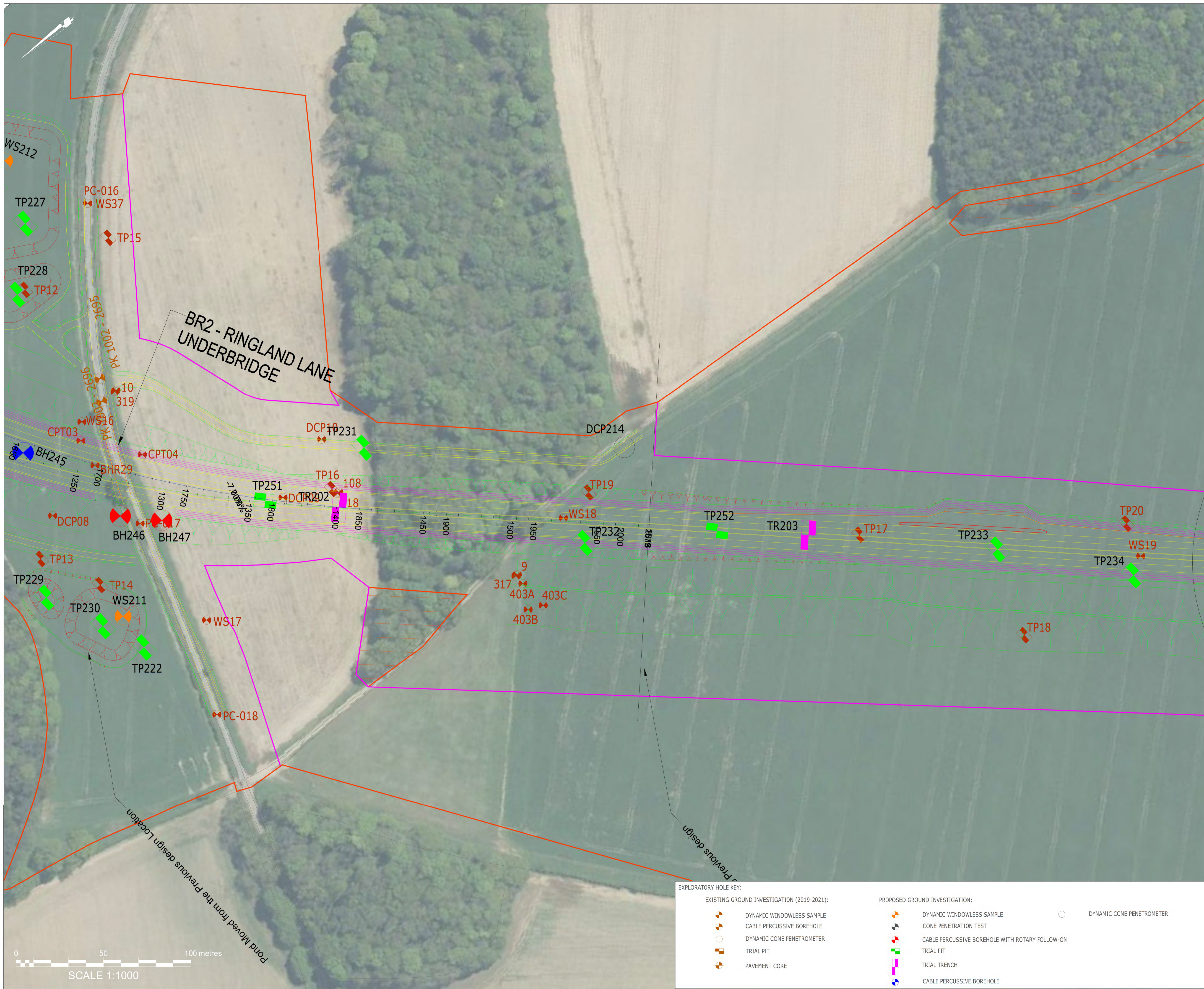
DRAWN SK	CHECKED CM	APPROVED AR	AUTHORISED -
SCALE @ A1 SIZE 1:1000		DATE 16/03/2022	REVISION P03

DRAWING NUMBER
 NCCT41793-RAM-VGT-FSC-DR-GI-0004



EXPLORATORY HOLE KEY:

DYNAMIC WINDOWLESS SAMPLE	DYNAMIC WINDOWLESS SAMPLE	DYNAMIC CONE PENETROMETER
CABLE PERCUSSIVE BOREHOLE	CONE PENETRATION TEST	
DYNAMIC CONE PENETROMETER	CABLE PERCUSSIVE BOREHOLE WITH ROTARY FOLLOW-ON	
TRIAL PIT	TRIAL PIT	
PAVEMENT CORE	TRIAL TRENCH	
	CABLE PERCUSSIVE BOREHOLE	



Key:
 Site extents boundary

- Notes:**
- Do not scale from this drawing.
 - All dimensions are in metres unless otherwise stated.
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 - BH232 and BH248 may need to be relocated to gain suitable access.
 - BH249 and BH250 may need to be relocated to avoid trees.
 - TR203, TP233, TP234 may need to be relocated to avoid skylark nests.
 - Groundwater monitoring installations at the following locations: BH201, BH203, BH206, BH210, BH212, BH226, BH228, BH229, BH231, BH233, BH235, BH236, BH237, BH241, BH243, BH245, BH246, WS211, WS212, WS213, WS214, WS215 and WS216.
 - Provisionally allow for an additional 20 trial pits south of CH2400 in the cuttings along main line. Positions to be agreed.
 - TP235, 236, 237, 238, WS218 positions may need to be relocated depending on the position of the infiltration pond(s).
 - WS207 may need to be relocated to avoid trees and bat roosts.
 - The locations of BH206, 208, 209, 211, 212, 255, 256, and CPT201 are approximate until the new arrangement has been fixed.
 - Lightweight deflectometer tests to be carried out at the following locations: WS208, WS209, WS210 (1 No. at each WS location) TR201, TR202, TR203 (3 No. at each trench location), TP202, TP204, TP241 to TP250, TP211, TP212, TP213, TP231, TP232, TP233, TP234, TP251; and TP252 (1 no. at pit location).
 - Plate bearing tests at TR201, TR202, TR203 (3 no. at each tr location), TP241 to TP250, TP211, TP212, TP213, TP231, TP232, TP233, TP234, TP251, and TP252 (1 no. at TP location).
 - Sand Replacement Tests at each Plate Bearing test location.
 - Allow for an additional 2 no. trial pits with infiltration testing south of Green Bridge 4. Positions to be agreed.
 - Allow for an additional 2 no. trial pits with infiltration testing near to Green Bridge GBL. Positions to be agreed.
 - BH210 and BH211 are rotary open-holed from ground level.

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P03	SK	CM	AR	16/03/2022
ADDITIONAL EXPLORATORY HOLES AND IN SITU TESTING				
P02	SK	CM	AR	04/03/2022
REVISED POSITIONS				
P01	SK	CM	AR	25/02/2022

REVISION	DRAWN	CHECKED	APPROVED	DATE
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CLIENT

Norfolk County Council
 Tom McCabe
 Executive Director of
 Community and Environmental Services
 Norfolk County Council
 County Hall, Martineau Lane
 Norwich NR1 2SG

PROJECT: TENDERER:

DRAWING TITLE
 NORWICH WESTERN LINK ROAD ALIGNMENT REFINEMENT
 PROPOSED EXPLORATORY HOLE LOCATION PLAN
 SHEET 5 OF 5

DRAWING STATUS
 PRELIMINARY

DRAWN	CHECKED	APPROVED	AUTHORISED
SK	CM	AR	-

SCALE @ A1 SIZE	DATE	REVISION
1:1000	16/03/2022	P03

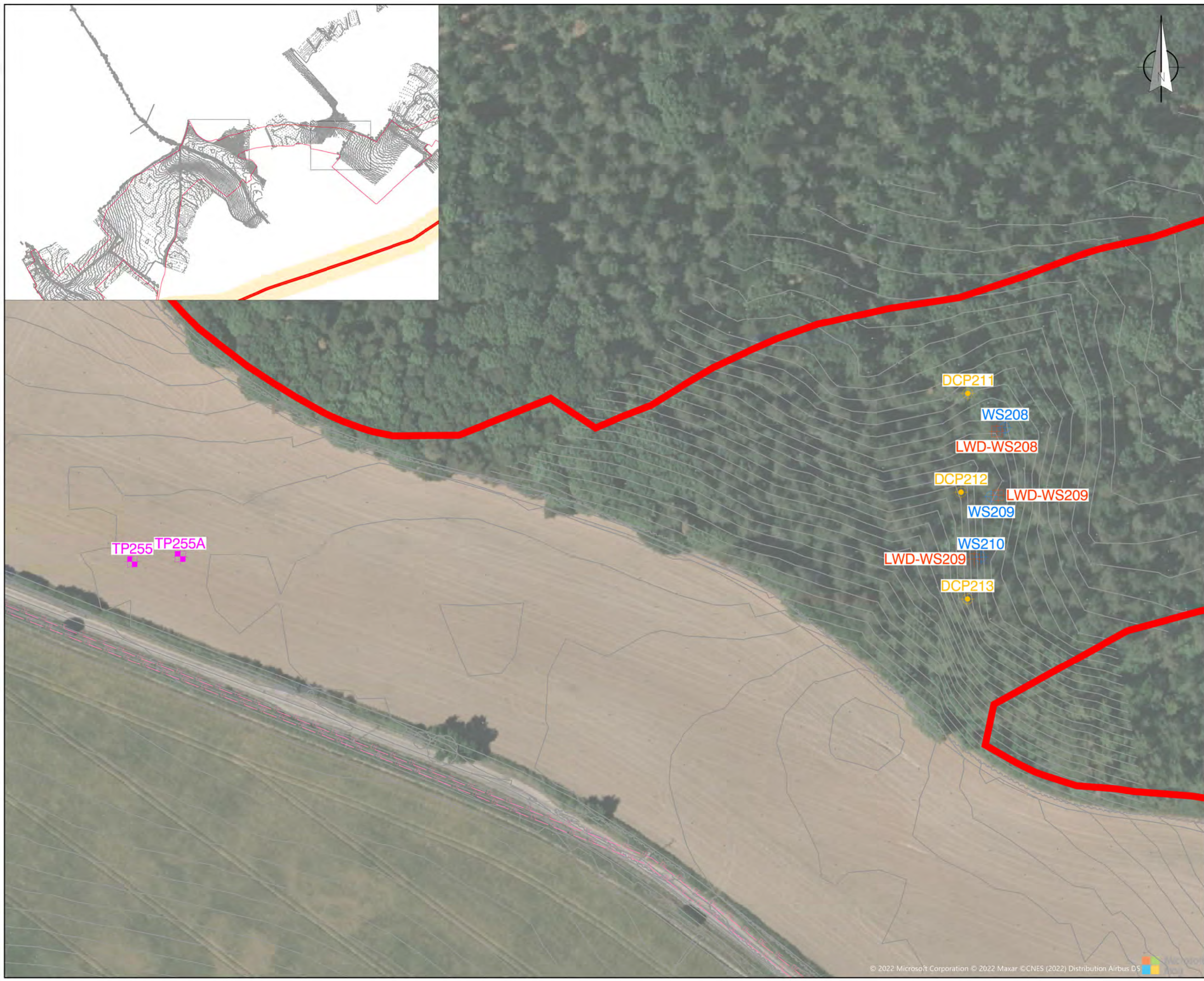
DRAWING NUMBER
 NCCT41793-RAM-VGT-FSC-DR-GI-0005

EXPLORATORY HOLE KEY:

	EXISTING GROUND INVESTIGATION (2019-2021):		PROPOSED GROUND INVESTIGATION:		DYNAMIC CONE PENETROMETER
	CABLE PERCUSSIVE BOREHOLE		CONE PENETRATION TEST		CABLE PERCUSSIVE BOREHOLE WITH ROTARY FOLLOW-ON
	DYNAMIC CONE PENETROMETER		TRIAL PIT		TRIAL TRENCH
	TRIAL PIT		CABLE PERCUSSIVE BOREHOLE		
	PAVEMENT CORE				



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 FN-14-0-0004



Key :

- Site Boundary
- DCP201 Dynamic Cone Penetrometer Test
- ⊕ WS201 Dynamic Continuous Sampling Borehole
- ⊕ LWD-WS208 Hand Excavated Trial Pit with Light Weight Deflectometer Test
- ⊕ TP255 Machine Excavated Trial Pit
- High Pressure Gas Main (Yellow Line) with Easement (Rec Hatch) and Middle Zone (Yellow Hatch)

Notes :

ferrovial construction		
Client : Ferrovial Construction (UK) Limited		
Project : Norwich Western Link Project		
Job No : NCCT41793	Date : November 2022	
Drawing Title : Fieldwork Location Plan - Re-scoped Mainline Churnage 1250 to 1540		
Drawing No : GN24456 - DR302A		
Scale : 1:1000 @ A3		
Drawn by : CS	Checked by : RL	
Eastings : 613276	Northings : 315183	
Revision history		
Rev	Date	Revision Data
P01	17/11/2022	First draft issue

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Key :

- Site Boundary
- BH232
 Cable Percussive Borehole
- High Pressure Gas Main (Yellow Line) with Easement (Rec Hatch) and Middle Zone (Yellow Hatch)

Notes :



Client : Ferrovial Construction (UK) Limited

Project : Norwich Western Link Project

Job No : NCCT41793 Date : November 2022

Drawing Title : Fieldwork Location Plan - Re-scoped Mainline Churnage 800 to 1250

Drawing No : GN24456 - DR302B

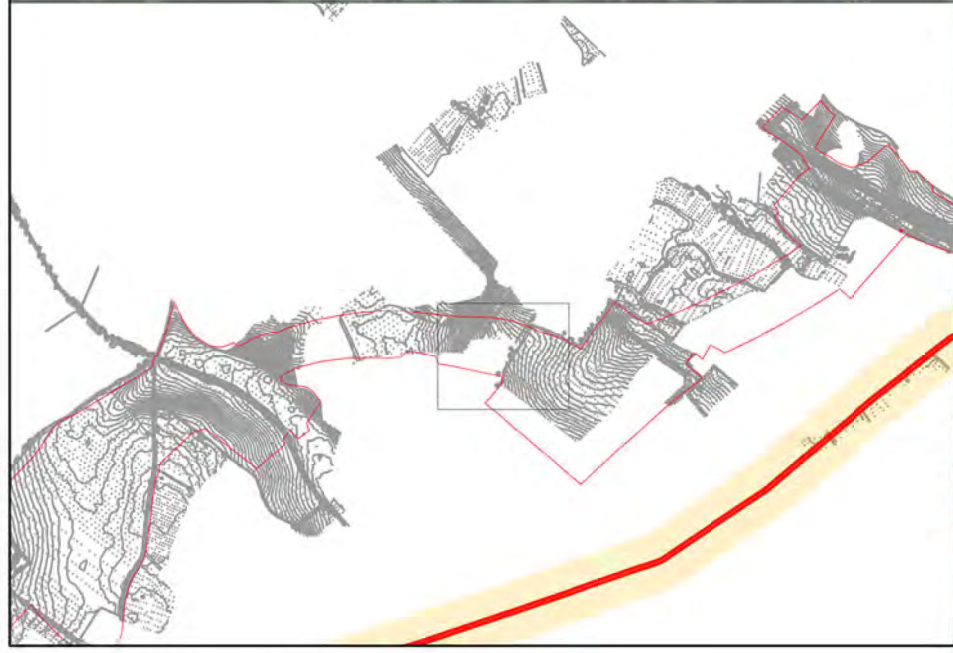
Scale : 1:1000 @ A3

Drawn by : CS Checked by : RL

Eastings : 613276 Northings : 315183

Revision history

Rev	Date	Revision Data
P01	17/11/2022	First draft issue



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Key :

- Site Boundary
- + BH261 Cable Percussive Borehole
- + TP254 Machine Excavated Trial Pit
- High Pressure Gas Main (Yellow Line) with Easement (Rec Hatch) and Middle Zone (Yellow Hatch)

Notes :
Indicative access points and routes only - subject to agreement



Client : Ferrovial Construction (UK) Limited

Project : Norwich Western Link Project

Job No : NCCT41793 Date : November 2022

Drawing Title : Fieldwork Location Plan - Re-scoped Mainline Churnage 5900

Drawing No : GN24456 - DR302C

Scale : 1:1000 @ A3

Drawn by : CS Checked by : RL

Eastings : 609808 Northings : 312541

Revision history

Rev	Date	Revision Data
P01	17/11/2022	First draft issue

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