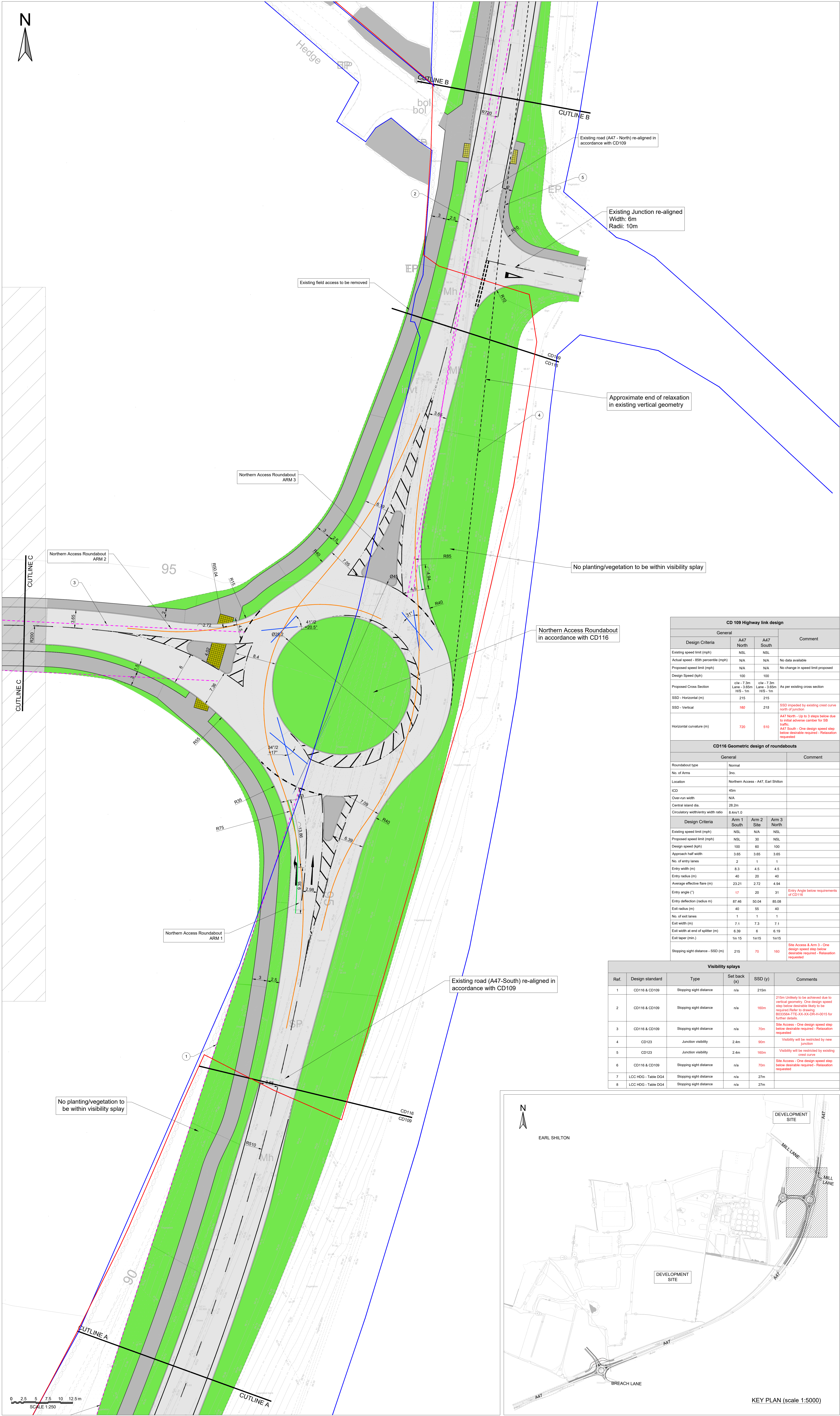




Key - General Arrangement

- Carriageway
- Footway
- Verges
- Overrun Area
- Tactile - Blister - uncontrolled crossing

Key - Geometry - Roundabout

- Entry Path Radius
- Entry Flare
- Entry Angle

Key - Visibility

- Junction visibility
- Junction approach SSD
- Refer to visibility table

Key - Traffic sign

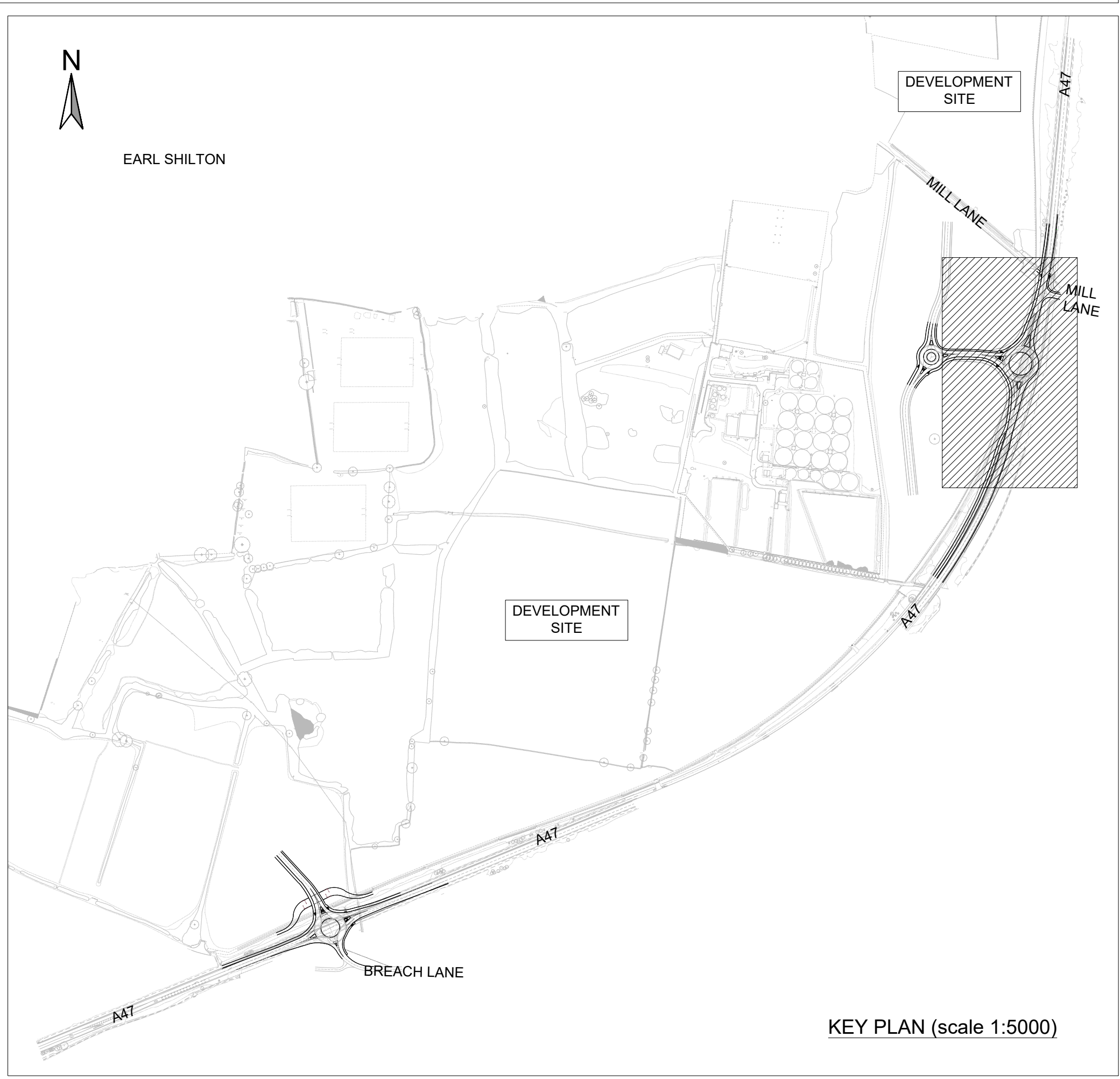
- Non illuminated traffic sign on new post.

Key - Boundaries

- Planning application boundary
- Highway boundary (LCoC)

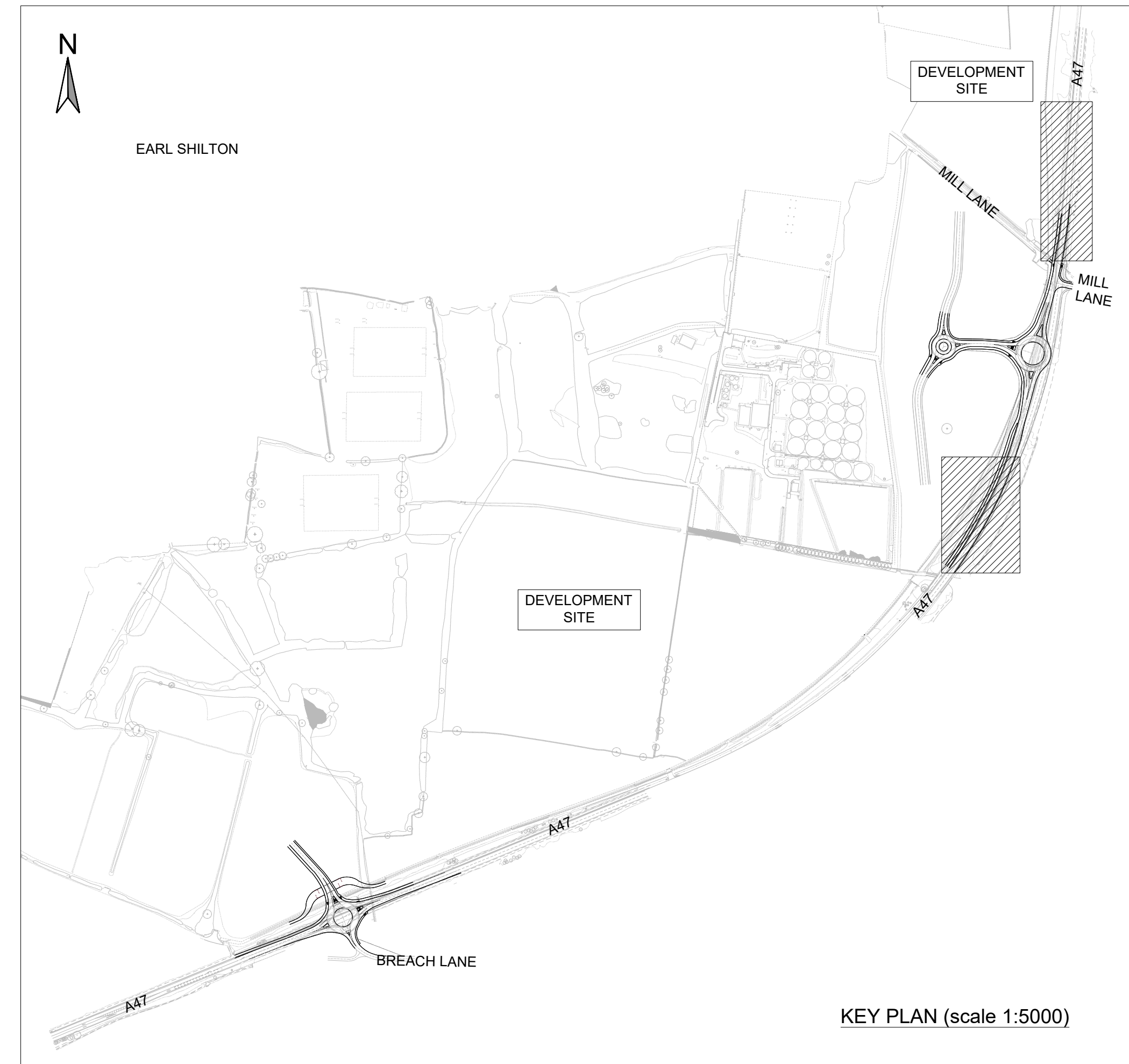
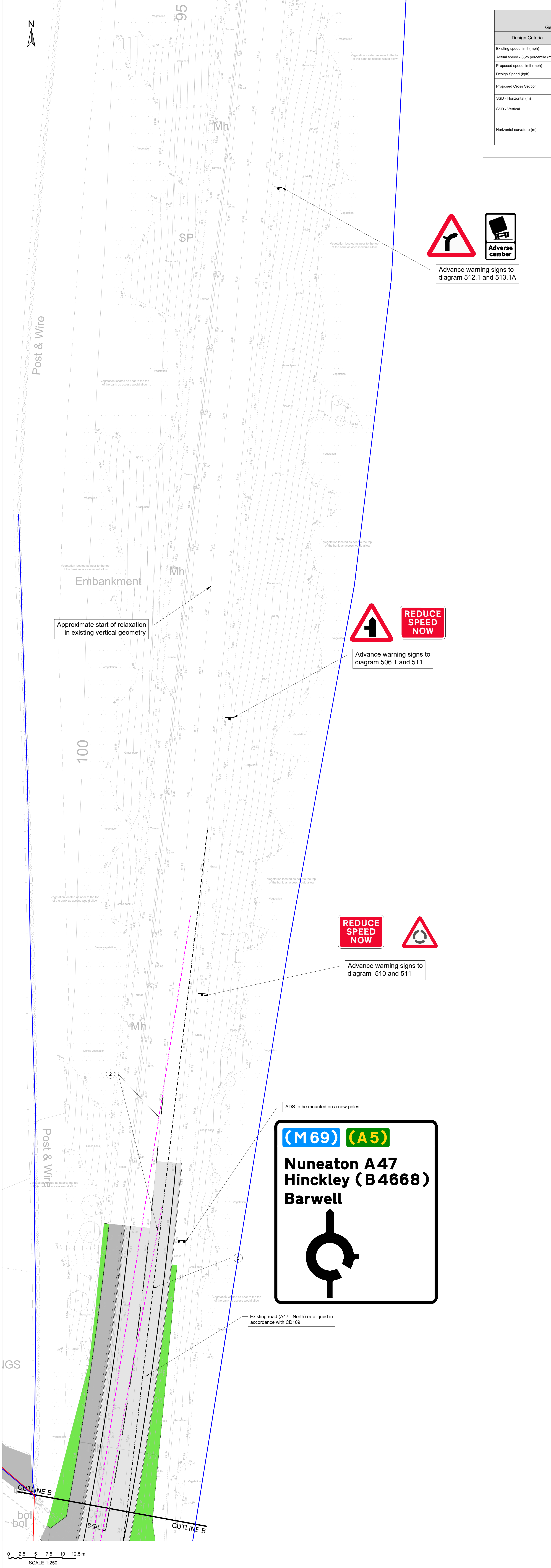
CD 109 Highway link design			
General			
Design Criteria	A47 North	A47 South	Comment
Existing speed limit (mph)	NSL	NSL	
Actual speed - 85th percentile (mph)	N/A	N/A	No data available
Proposed speed limit (mph)	N/A	N/A	No change in speed limit proposed
Design Speed (kph)	100	100	
Proposed Cross Section	c/w - 7.3m Lane - 3.65m HS - 1m	c/w - 7.3m Lane - 3.65m HS - 1m	As per existing cross section
SSD - Horizontal (m)	215	215	
SSD - Vertical	160	215	SSD impeded by existing crest curve north of junction
Horizontal curvature (m)	720	510	A47 North - Up to 3 steps below due to initial adverse camber for SB traffic. A47 South - One design speed step below desirable required - Relaxation requested
CD116 Geometric design of roundabouts			
General			
Roundabout type	Normal		
No. of Arms	3no.		
Location	Northern Access - A47, Earl Shilton		
ICD	45m		
Over-run width	N/A		
Central island dia.	28.2m		
Circulatory width/entry width ratio	8.4m/1.0		
Design Criteria	Arm 1 South	Arm 2 Site	Arm 3 North
Existing speed limit (mph)	NSL	N/A	NSL
Proposed speed limit (mph)	NSL	30	NSL
Design speed (kph)	100	60	100
Approach half width	3.65	3.65	3.65
No. of entry lanes	2	1	1
Entry width (m)	6.3	4.5	4.5
Entry radius (m)	40	20	40
Average effective flare (m)	23.21	2.72	4.94
Entry angle (°)	17	20	31
Entry deflection (radius m)	87.46	50.04	85.08
Exit radius (m)	40	55	40
No. of exit lanes	1	1	1
Exit width (m)	7.1	7.3	7.1
Exit width at end of splitter (m)	6.39	6	6.19
Exit taper (min.)	1m15	1m15	1m15
Stopping sight distance - SSD (m)	215	70	160

Visibility splay					
Ref.	Design standard	Type	Set back (x)	SSD (y)	Comments
1	CD116 & CD109	Stopping sight distance	n/a	215m	
2	CD116 & CD109	Stopping sight distance	n/a	160m	215m Unlikely to be achieved due to vertical geometry. One design speed step below desirable likely to be required. Refer to drawing B033564-TTE-XX-XX-DR-H-0015 for further details.
3	CD116 & CD109	Stopping sight distance	n/a	70m	Site Access - One design speed step below desirable required - Relaxation requested
4	CD123	Junction visibility	2.4m	90m	Visibility will be restricted by new junction
5	CD123	Junction visibility	2.4m	160m	Visibility will be restricted by existing crest curve
6	CD116 & CD109	Stopping sight distance	n/a	70m	Site Access - One design speed step below desirable required - Relaxation requested
7	LCC HDG - Table DG4	Stopping sight distance	n/a	27m	
8	LCC HDG - Table DG4	Stopping sight distance	n/a	27m	



PRELIMINARY ISSUE

P05	ADVANCE WARNING SIGNS ADDED AND AMENDED	16.02.2024	NM	IF	IF
P04	ROADWORKS ADDED - NOTE ADDED REGARDING VISIBILITY SPLAY AND VEGETATION PLANTING	06.10.2023	NM	IF	IF
P03	INDICATIVE ADS AND SIGNS ADDED	14.08.2023	NM	IF	IF
P02	AMENDMENTS FOLLOWING LCC COMMENTS	21.06.2023	MB	IF	IF
P01	PRELIMINARY FIRST ISSUE	29.11.2022	DM	IF	IF
Document Control					
Issued Office					
Tetra Tech Leicester Executive Park, Arden Way, Anstey, Leicester, United Kingdom, LE17 7GR Tel: +44 (0)111 6234 8000 www.tetrattech.co.uk					
Client					
JELSON HOMES BLOOR HOMES					
Project Name					
A47 EARL SHILTON					
Sheet Title					
NORTHERN ACCESS PRELIMINARY ACCESS SHEET 1					
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By
784-B033564	DM	Nov 22	IF	Nov 22	IF
Client Project Number	Designer	Visits/Designs	Location/Date	Type/Date	Number
B033564 - TTE	XX	XX	DR	H	0011
P05					
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TTE_MF_v1					



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PRELIMINARY ISSUE

Rev	Description	Date	By	Check	Appr	Scale	Sheet
P05	ADVANCE WARNING SIGNS ADDED AND AMENDED	16.02.2024	NM	IF	IF		
P04	BOUNDARIES ADDED	06.10.2023	NM	IF	IF		
P03	INDICATIVE ADS AND SIGNS ADDED	14.08.2023	NM	IF	IF		
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Issuing Office:
Tetra Tech Leicester
Executive Park, Aviation Way, Anstey, Leicester, United Kingdom, LE17 7GR
Tel: +44 (0)111 8234 8000
www.tetra-tech.co.uk

Client:
Jelsum Homes
BLOOR HOMES

Project Name:
A47 EARL SHILTON

Sheet Title:
**NORTHERN ACCESS
PRELIMINARY LAYOUT
SHEET 2**

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale	Sheet	Subsidiary
784-B033564	DM	Nov '22	IF	Nov '22	IF	Nov '22	1:250	50	

Client Project Number: 784-B033564
Drawing: VISUALISATION
Location: Leicester
Type: Road
Number: B033564 - TTE - XX - XX - DR - H - 0012
P05

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