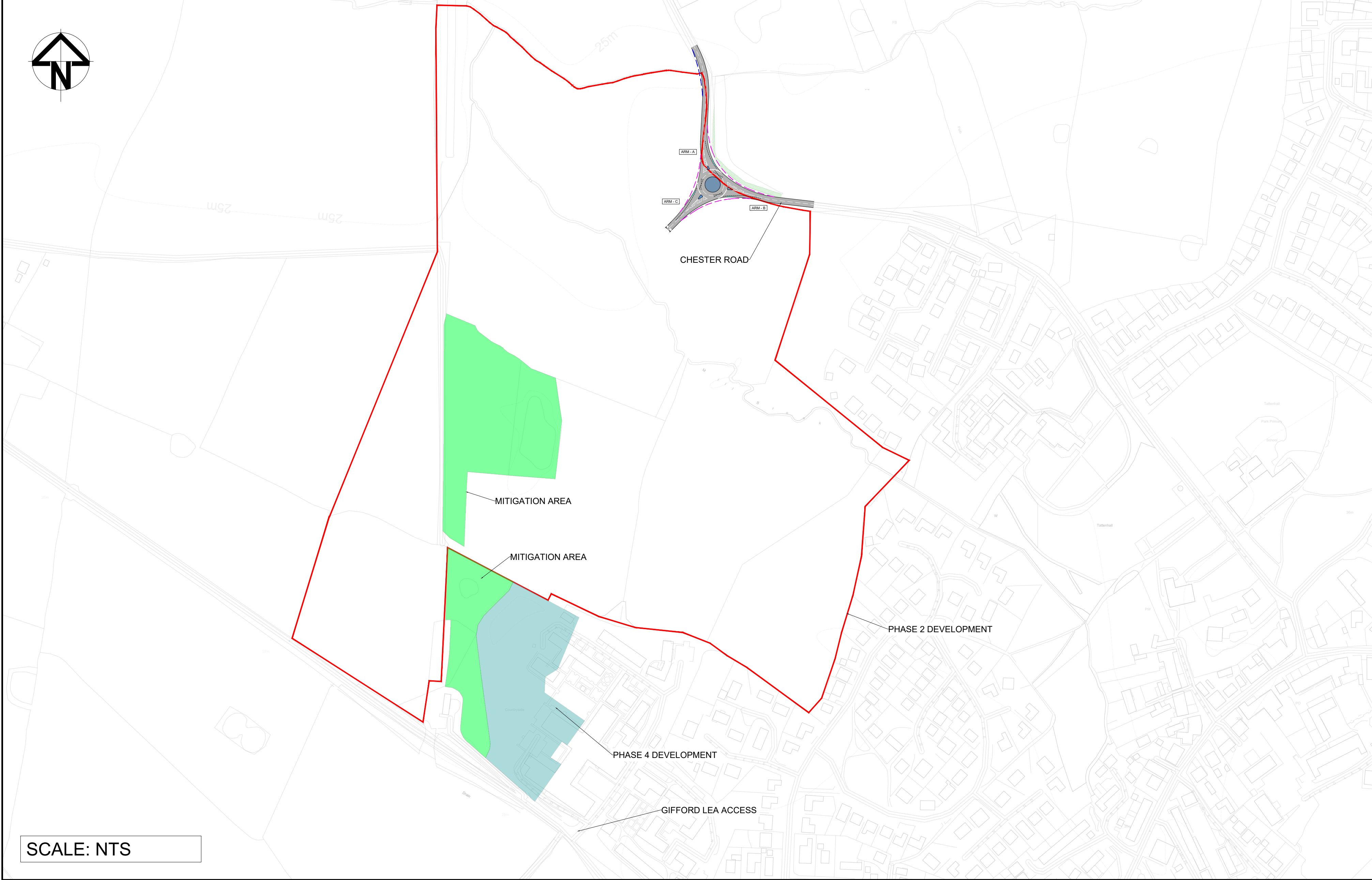
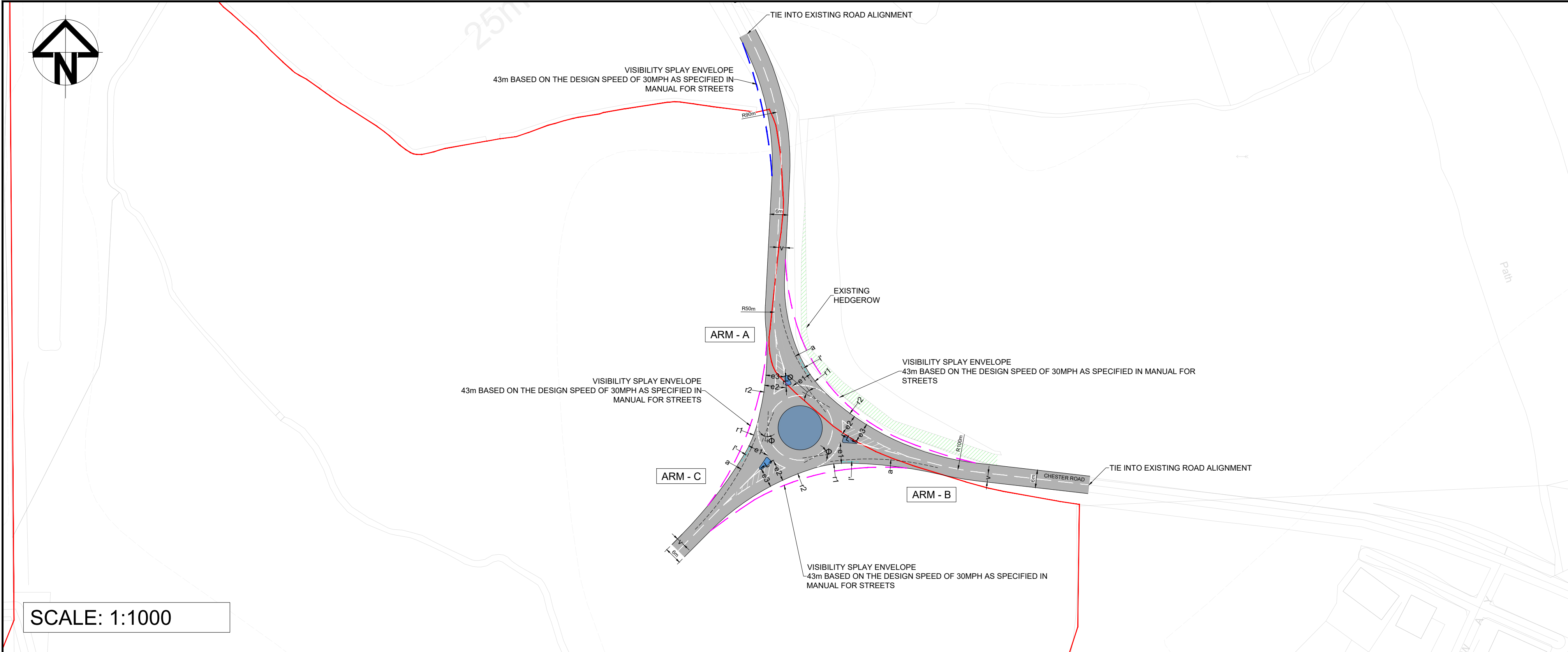




ROUNDABOUT DESIGN NOTES COMPLIANCE WITH DMRB CD 116 REQUIREMENTS

ROUNDABOUT TYPE
CD116 - 2.3.3
"FOR ROADS WITH A POSTED SPEED LIMIT OF 40mph OR BELOW, EITHER A COMPACT OR A NORMAL ROUNDABOUT MAY BE PROVIDED"

- ROUNDABOUT TYPE = **NORMAL**

CENTER ISLAND
CD116 - 3.7
"THE CENTRAL ISLAND OF NORMAL AND COMPACT ROUNDABOUTS SHALL BE AT LEAST 4m IN DIAMETER."

- INSCRIBED CIRCLE DIAMETER = **29m**
- CENTRAL ISLAND = **15m**

CIRCULATORY CARRIAGEWAY WIDTH
CD 116 - 3.6
"THE WIDTH OF THE CIRCULATORY CARRIAGEWAY FOR NORMAL OR COMPACT ROUNDABOUTS SHALL BE BETWEEN 1.0 AND 1.2 TIMES THE MAXIMUM ENTRY WIDTH, EXCLUDING ANY OVERRUN AREA."

- CIRCULATORY CARRIAGEWAY WIDTH = **7m**

ENTRY WIDTH
CD 116 - 3.12
"ON A SINGLE CARRIAGEWAY APPROACH TO NORMAL ROUNDABOUT, ENTRY WIDTH SHALL NOT EXCEED 10.5m"

EXIT WIDTH
CD 116 - 3.28.2
"AT A NORMAL ROUNDABOUT, IF THE DOWNSTREAM LINK IS A SINGLE CARRIAGEWAY ROAD, THE EXIST WIDTH SHOULD BE BETWEEN 7m AND 7.5m AND THE EXIT SHOULD TAPER DOWN TO A MINIMUM OF 6m."

ENTRY RADIUS
CD 116 - 3.19.1
"THE ENTRY KERB RADIUS SHOULD NOT LESS THAN 10m."
CD 116 - 3.19.2
"THE ENTRY KERB RADIUS SHOULD NOT GREATER THAN 100m."

EXIT RADIUS
CD 116 - 3.29.2
"AT NORMAL ROUNDABOUT, THE EXIST KERB RADIUS SHOULD BE 40m."
CD 116 - 3.29.3
"WHERE AN EXIT KERB RADIUS OF 40m CANNOT BE ACHIEVED, THE EXIT KERB SHOULD BE NO LESS THAN 20m AND NO GREATER THAN 100m."

FLARE LENGTH
CD 116 - 3.17.1
"A MINIMUM AVERAGE EFFECTIVE FLARE LENGTH OF 5m IN URBAN AREAS AND 25m IN RURAL AREA SHOULD BE USED, BUT CAPACITY CAN BE DETERMINING FACTOR FOR THE ACTUAL LENGTH."

ENTRY ANGLE
CD 116 - 3.18.1
"THE ENTRY ANGLE SHOULD BE NO LESS THAN 20 DEGREES AND NO GREATER THAN 60 DEGREES FOR NORMAL AND COMPACT ROUNDABOUTS."

ENTRY PATH RADIUS AND DEFLECTION
CD 116 - 3.26
"AT NORMAL ROUNDABOUTS, THE ENTRY PATH RADIUS SHALL NOT EXCEED 100m."

COMPLIANCE WITH DMRB CD 109 REQUIREMENTS

KERB RADIUS OF APPROACH ROAD
CD109 - 30mph

VISIBILITY STOPPING SIGHT DISTANCE
MANUAL FOR STREETS - 43m

ROUNDABOUT	ARM - A	ARM - B	ARM - C
ENTRY WIDTH - e1	7m	7m	7m
EXIT WIDTH - e2	7m	7m	7m
ISLAND EXIST WIDTH - e3	6.43m	6.49m	6.50m
ISLAND TAPER LENGTH - L	3.75m	5.36m	5m
APPROACH HALF WIDTH - v	3m	3m	3m
ENTRY RADIUS - r1	40m	40m	40m
EXIT RADIUS - r2	90m	90m	85m
FLARE LENGTH - l'	6.38m	5.87m	5.87m
ENTRY ANGLE - Φ	23°	21°	20°
ENTRY PATH RADIUS & DEFLECTION - a	54m	95m	95m

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.

LEGEND:

- CARRIAGEWAY
- ROUNDABOUT CENTER ISLAND / SPLITTER ISLAND
- VISIBILITY SPLAY

DRAFT

Project:

Land at Frog Lane

Site: Client:

ARCADIS

Registered office: 80 Fenchurch Street, London EC3M 4BY
Coordinating office: 16th Floor, 103 Colmore Row, Birmingham B3 3AG
Tel: 44 (0)121 516 1818

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Drawing Title:

**NORTH OF FROG LANE
NORTHERN ACCESS
ROUNDABOUT OPTION 1**

Designed: R. Reyes	Signed:	Date: 02/01/2026
Produced: R. Reyes	Signed:	Date: 02/01/2026
Checked: D. Waters	Signed:	Date: 02/01/2026
Reviewed: D. Waters	Signed:	Date: 02/01/2026
Approved: M. Davies	Signed:	Date: 02/01/2026

Design Stage:

Original Size: A1	Grid: OS	Datum: AOD
Status Code:	Scale: 1:500	Project Number: 30290622
Status Description:	WIP	
Security Classification:		
Drawing Number: 30290622-ARC-HGN-ZZ-DS-CE-00006	Revision: P01.02	