

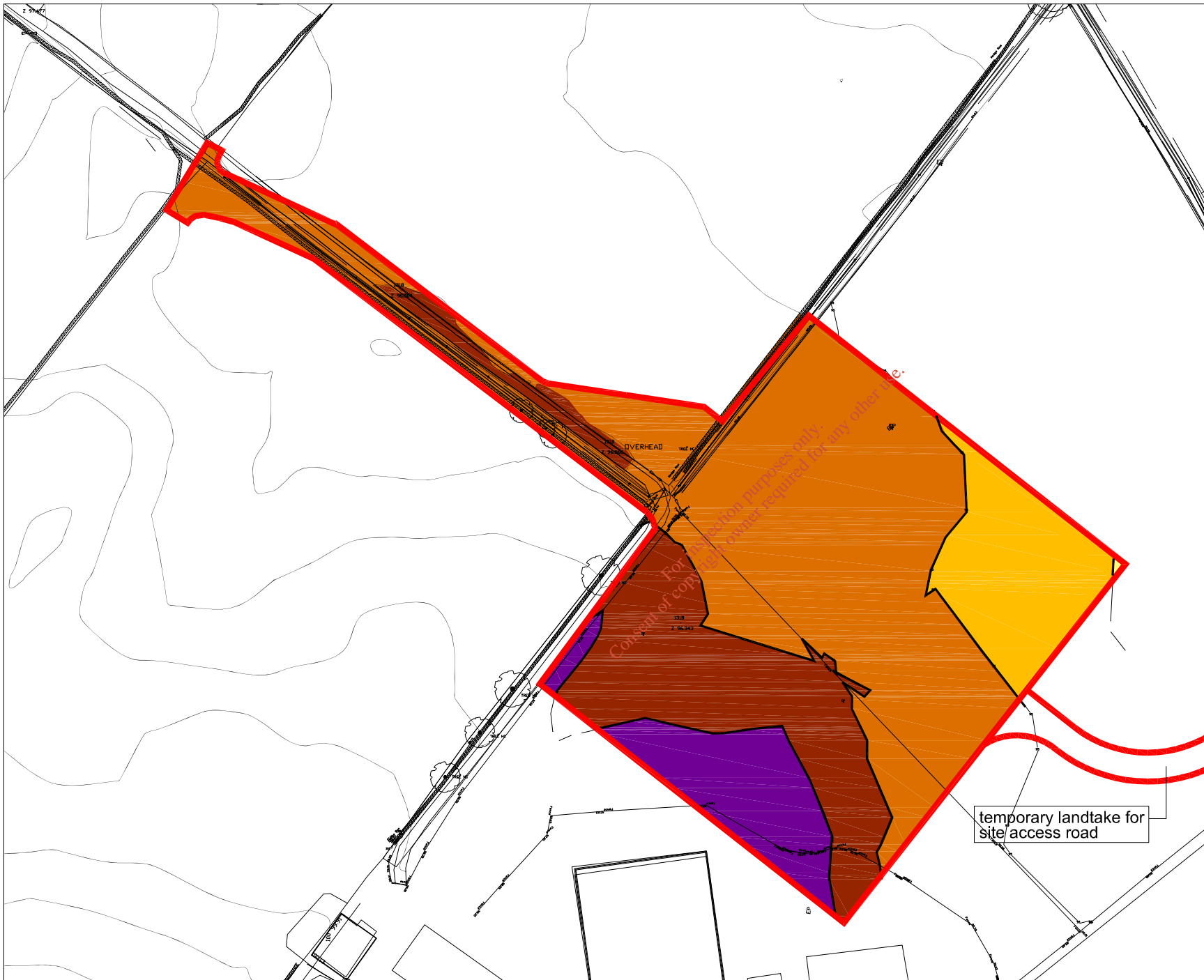
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FIGURES







Site location
Extract from the RMP map
Proposed site layout
Area of proposed development showing nearby archaeological site
Extract from the first edition OS map (1842)
Extract from the third edition OS map (1914)
Site context
Topography map
Slope map
Existing vegetation map
Land use map
Visual analysis map



FIG. 11.1 SITE CONTEXT



Legend:

-  94 metres O.D. and under
-  94 to 95 metres O.D.
-  95 to 96 metres O.D.
-  96 to 97 metres O.D.
-  97 metres O.D. and over
-  site boundary

temporary landtake for
site access road

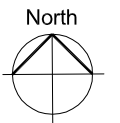
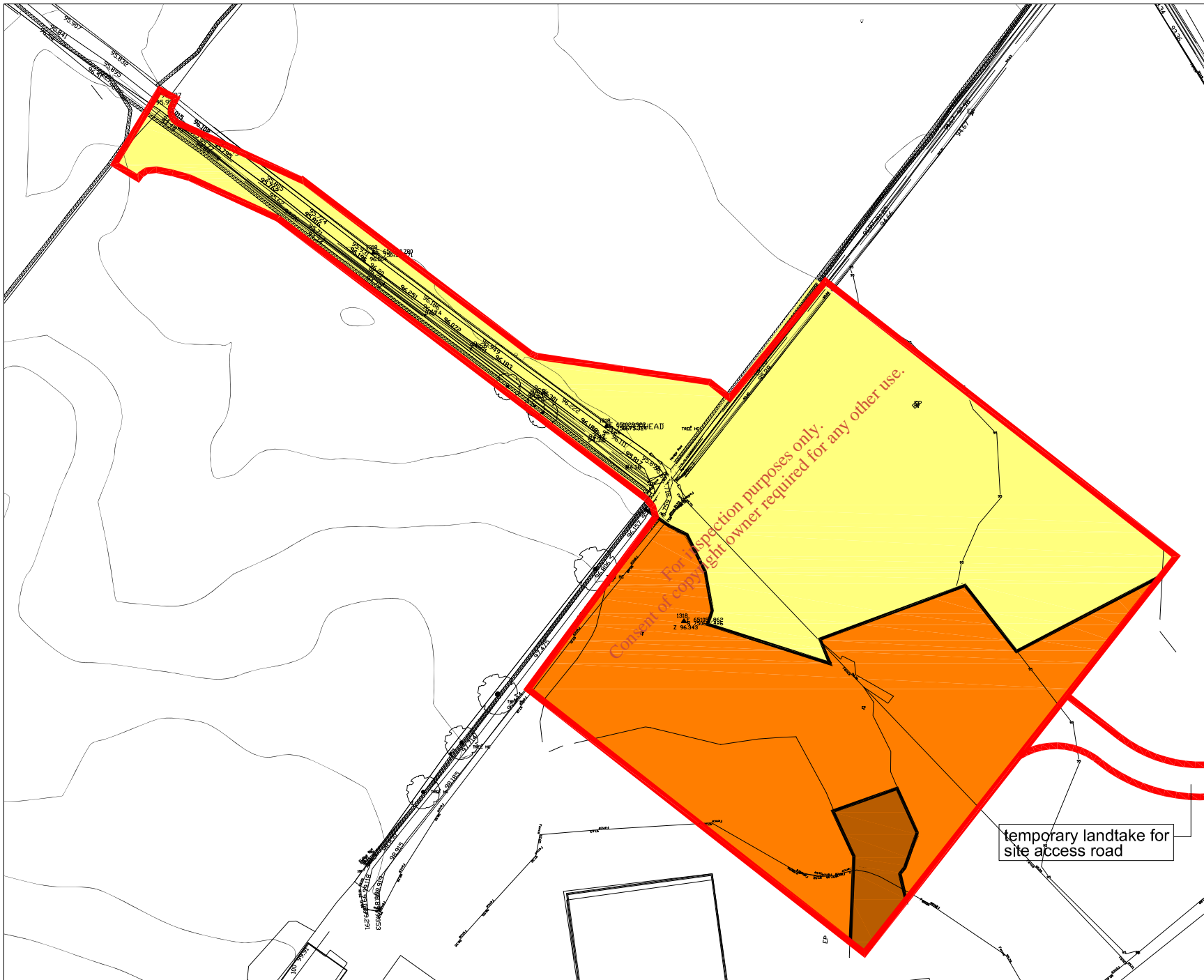


FIG. 11.2 TOPOGRAPHY MAP



Legend:

- 1 in 50 and less
- 1 in 20 to 1 in 50
- 1 in 20 and steeper
- site boundary



FIG. 11.3 SLOPE MAP



Legend:

-  tree planting
-  hedgerow
-  site boundary

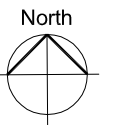
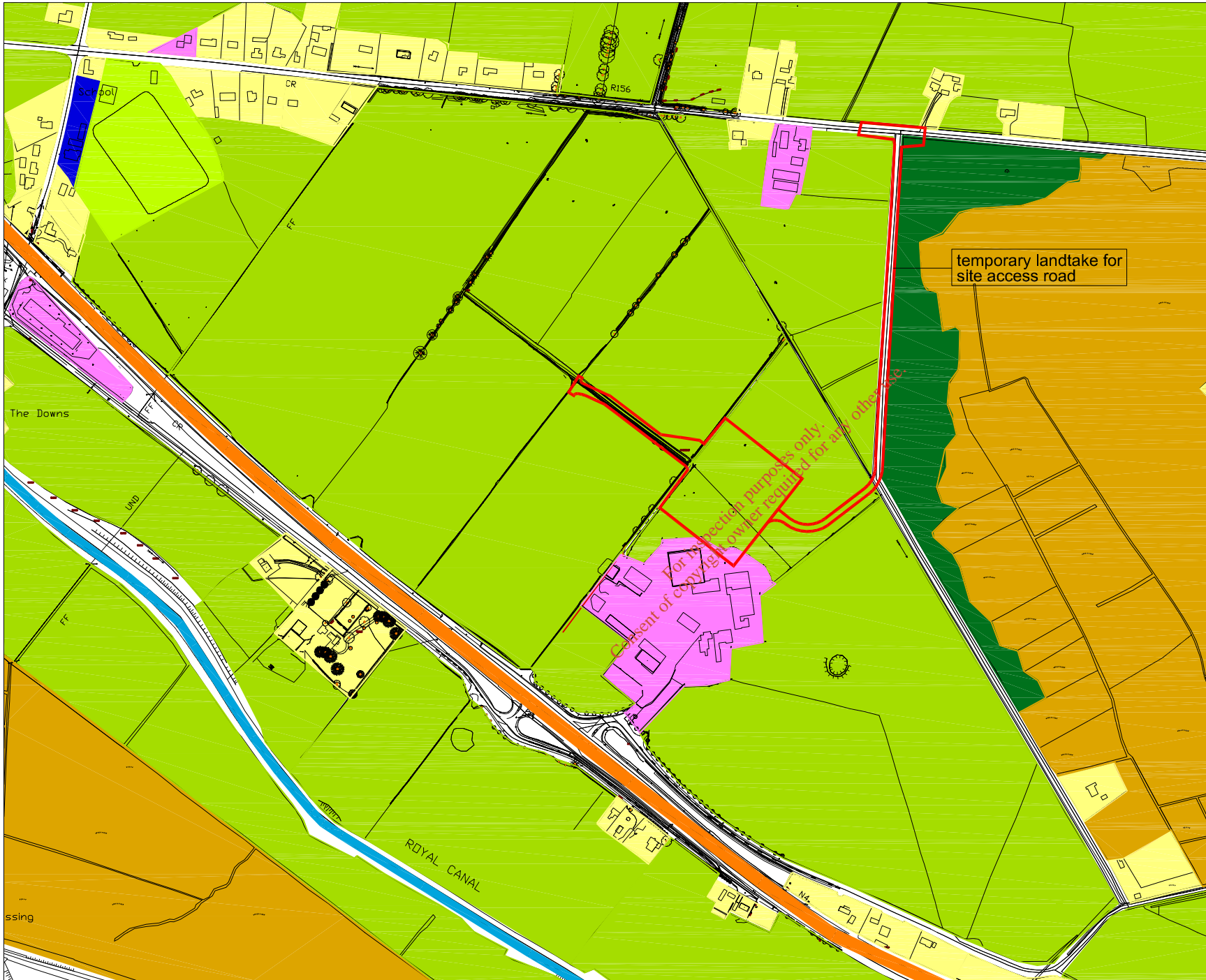


FIG. 11.4 EXISTING VEGETATION MAP



Legend:

- residential
- agriculture
- institutional
- sports related
- scrub woodland
- poor quality agriculture / marsh land
- Royal Canal
- N4 dual carriageway
- site boundary

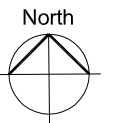
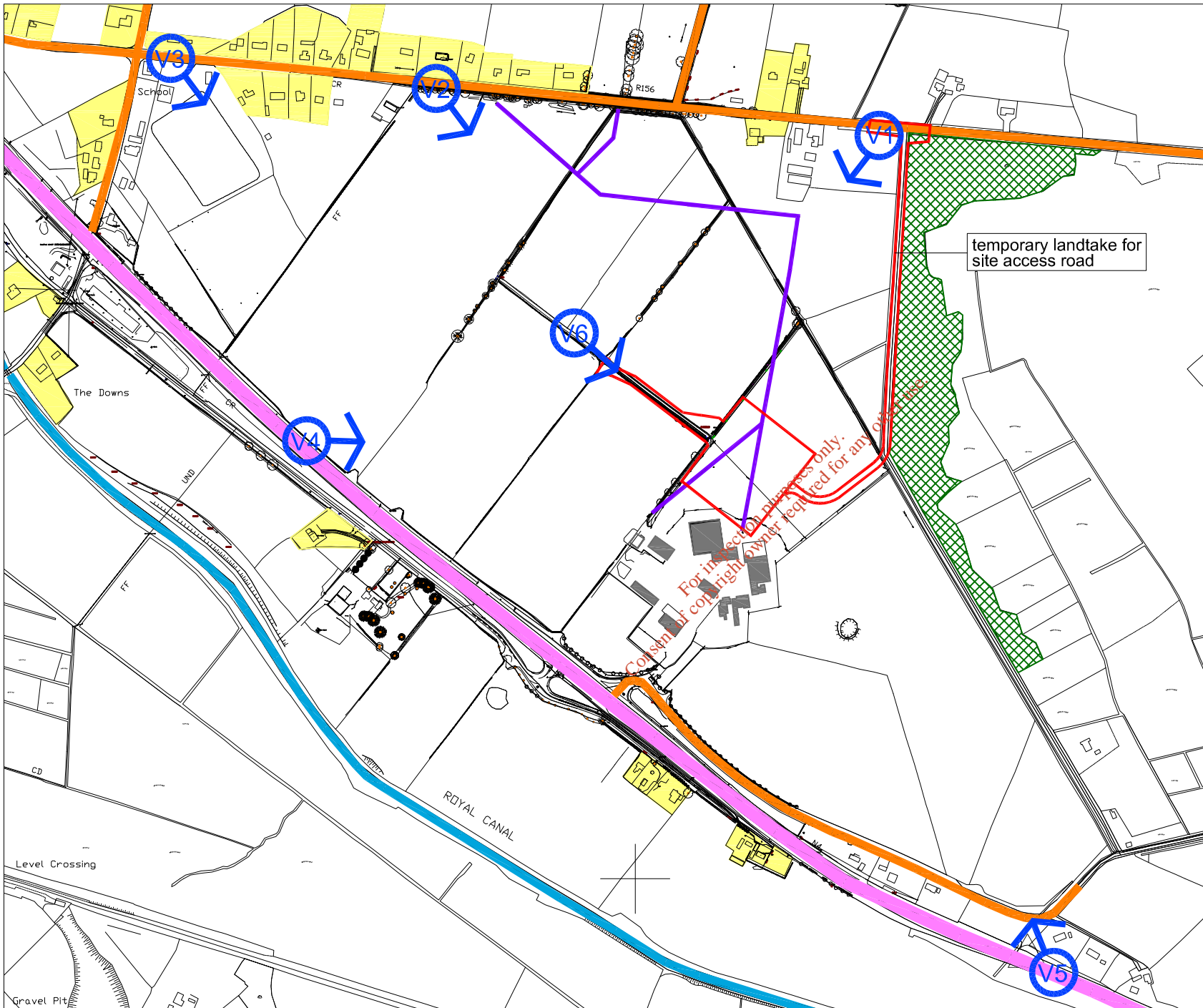


FIG. 11.5 LAND USE MAP



Legend:







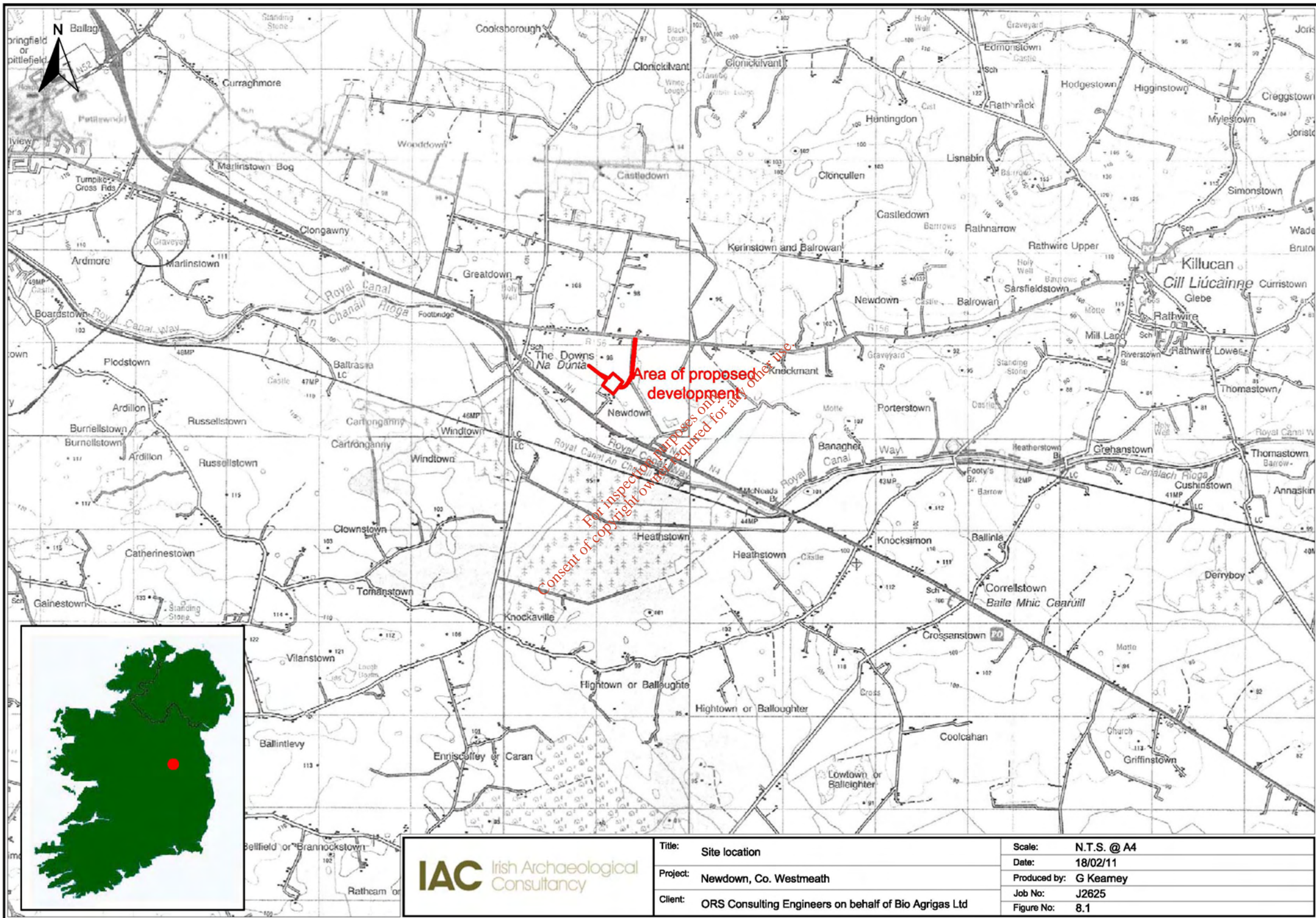
-  views in
-  overhead powerlines
-  primary vehicular movement (N4 dual carriageway)
-  secondary vehicular movement
-  structures adjacent to site
-  ribbon development
-  visual buffer
-  Royal Canal
-  site boundary

FIG. 11.6 VISUAL ANALYSIS MAP



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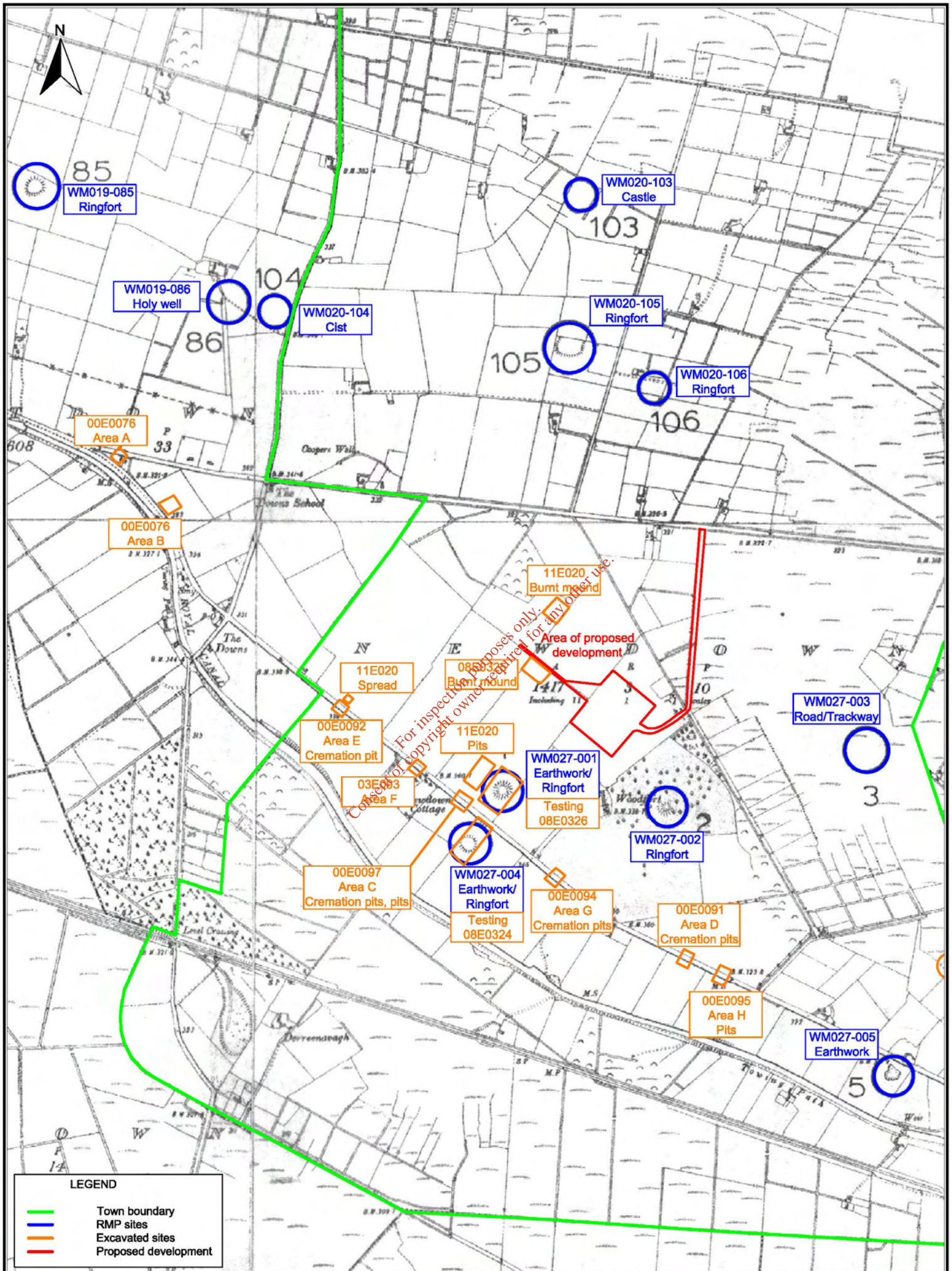
Area of proposed development



IAC Irish Archaeological Consultancy

Title:	Site location
Project:	Newdown, Co. Westmeath
Client:	ORS Consulting Engineers on behalf of Bio Agrigas Ltd

Scale:	N.T.S. @ A4
Date:	18/02/11
Produced by:	G Kearney
Job No:	J2625
Figure No:	8.1



LEGEND	
—	Town boundary
○	RMP sites
□	Excavated sites
—	Proposed development

Title: Extract from the RMP map (based on the third edition OS map) showing the area of proposed development

Project: Newdown, Co. Westmeath

Client: ORS Consulting Engineers on behalf of Bio Agrigas Ltd

Scale: N.T.S. @ A4

Date: 18/02/11

Produced by: G Kearney

Job No: J2625

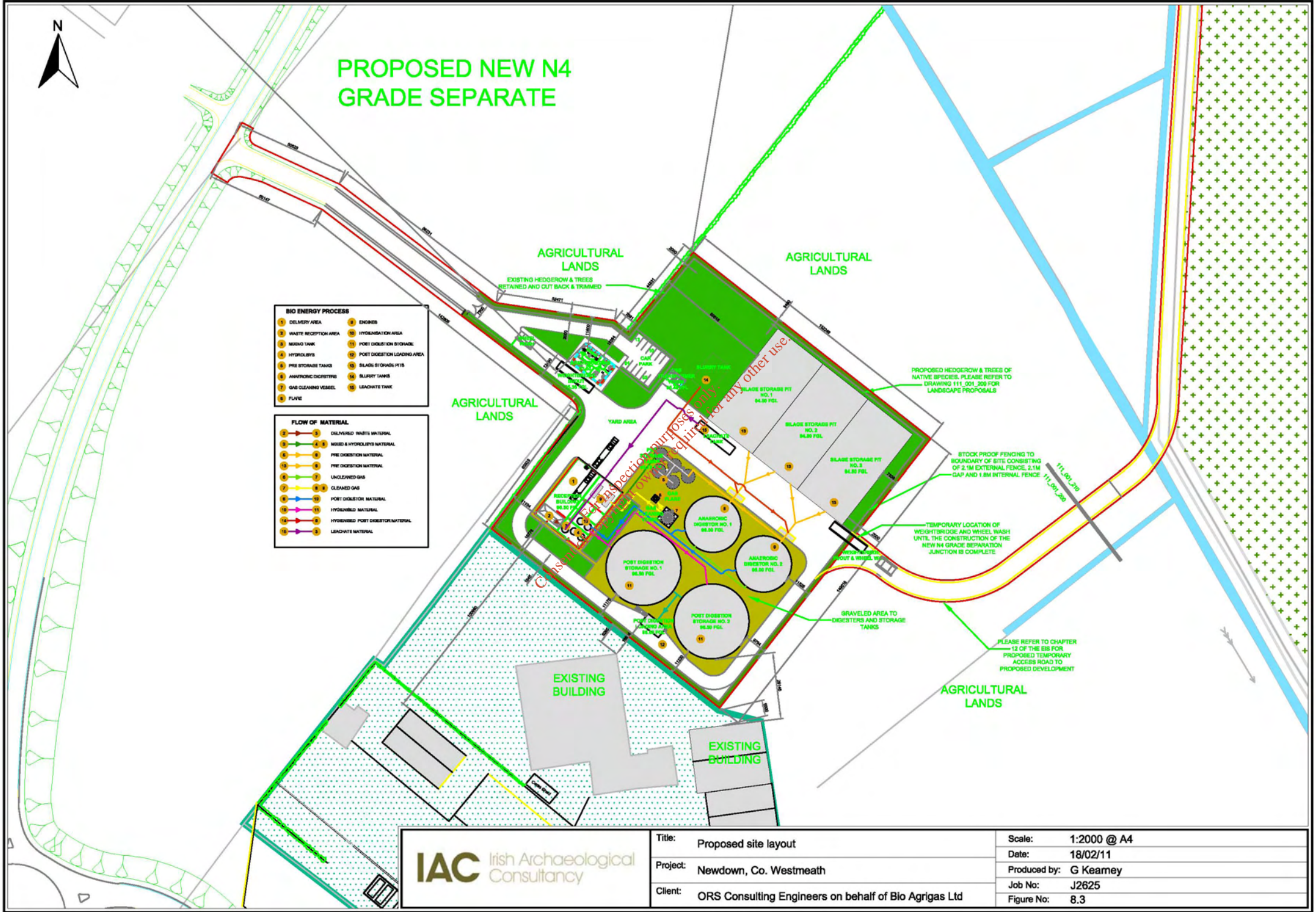
Figure No: 8.2



PROPOSED NEW N4 GRADE SEPARATE

- BIO ENERGY PROCESS**
- | | |
|--------------------------|---------------------------|
| 1 DELIVERY AREA | 4 EXCHANGER |
| 2 WASTE RECEPTION AREA | 5 HYDROLYSIS AREA |
| 3 MIXING TANK | 11 PORT DIGESTION STORAGE |
| 6 HYDROLYSIS | 12 SILAGE STORAGE PIT |
| 8 PRE DIGESTION TANKS | 13 ANAEROBIC DIGESTERS |
| 9 PRE DIGESTION MATERIAL | 14 GAS CLEANING VESSEL |
| 10 UNCLEANED GAS | 15 LEACHATE TANK |
| 7 CLEANED GAS | 16 FLARE |

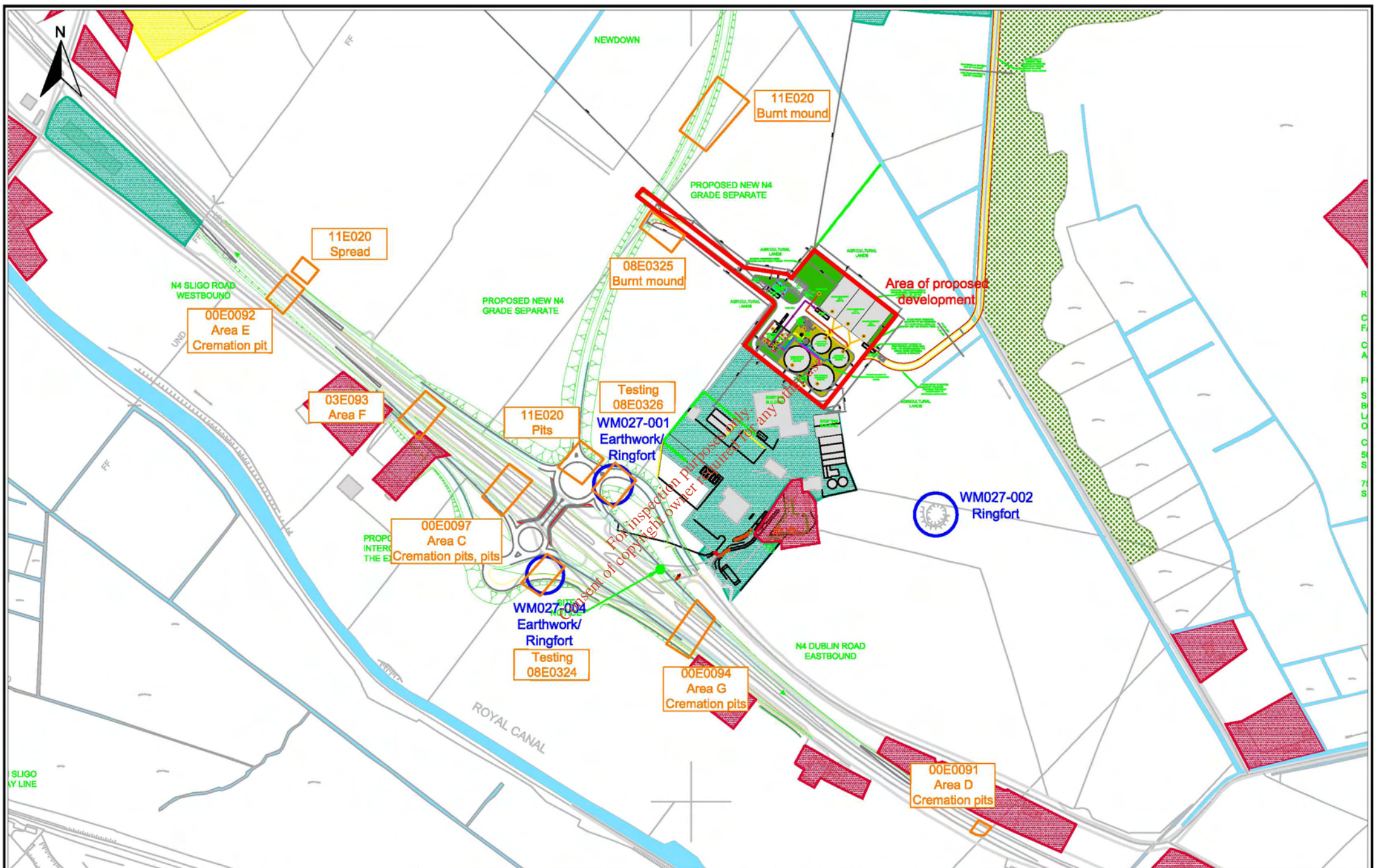
- FLOW OF MATERIAL**
- | | | |
|----|----|------------------------------------|
| 1 | 2 | DELIVERED WASTE MATERIAL |
| 3 | 4 | MIXED & HYDROLYSIS MATERIAL |
| 5 | 6 | PRE DIGESTION MATERIAL |
| 7 | 8 | PRE DIGESTION MATERIAL |
| 9 | 10 | UNCLEANED GAS |
| 11 | 12 | CLEANED GAS |
| 13 | 14 | PORT DIGESTION MATERIAL |
| 15 | 16 | HYDROLYSIS MATERIAL |
| 17 | 18 | HYDROLYSIS PORT DIGESTION MATERIAL |
| 19 | 20 | LEACHATE MATERIAL |



IAC Irish Archaeological Consultancy

Title:	Proposed site layout
Project:	Newdown, Co. Westmeath
Client:	ORS Consulting Engineers on behalf of Bio Agrigas Ltd

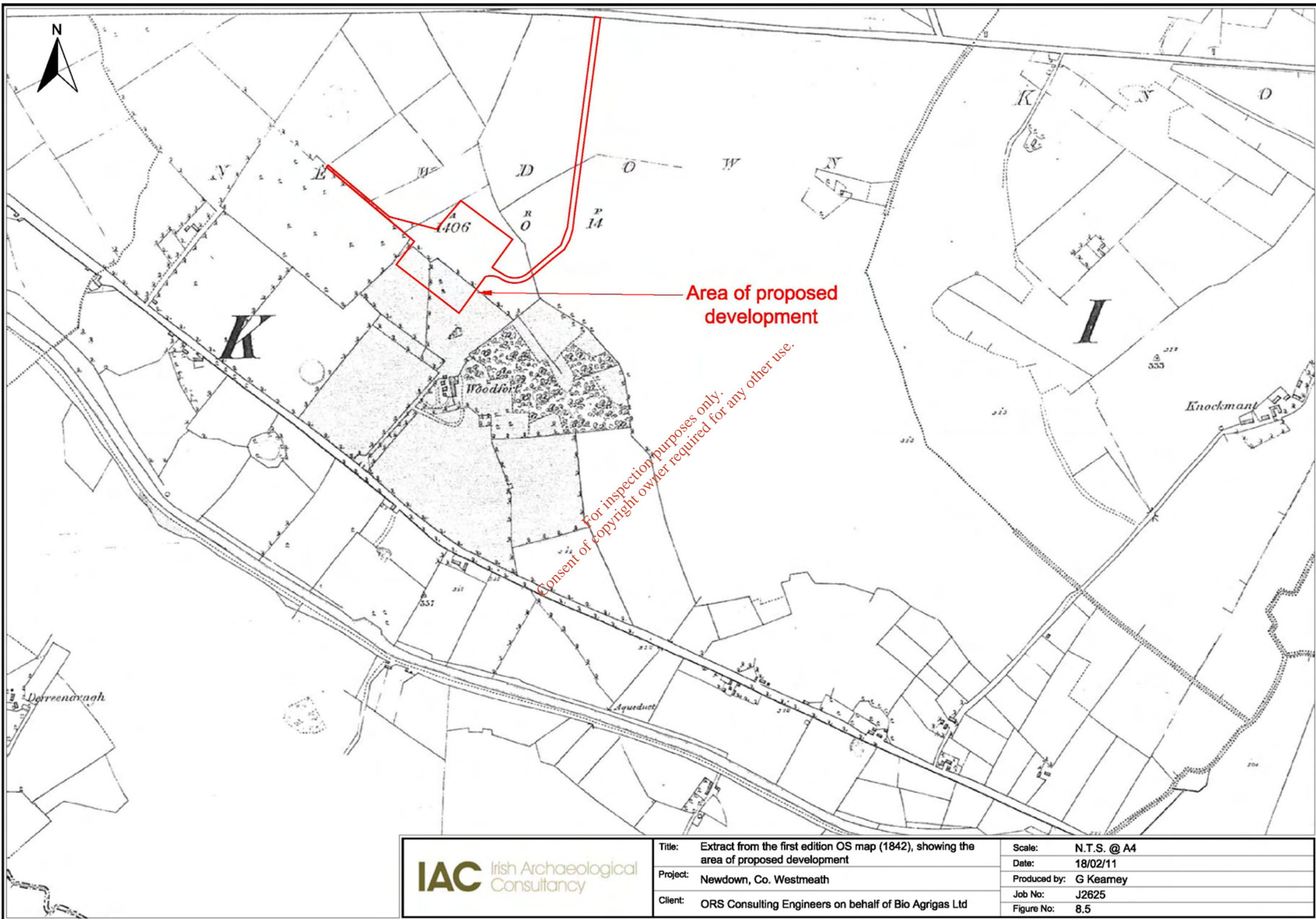
Scale:	1:2000 @ A4
Date:	18/02/11
Produced by:	G Kearney
Job No:	J2625
Figure No:	8.3



IAC Irish Archaeological Consultancy

Title: Area of proposed development showing nearby archaeological sites
 Project: Newdown, Co. Westmeath
 Client: ORS Consulting Engineers on behalf of Bio Agrigas Ltd

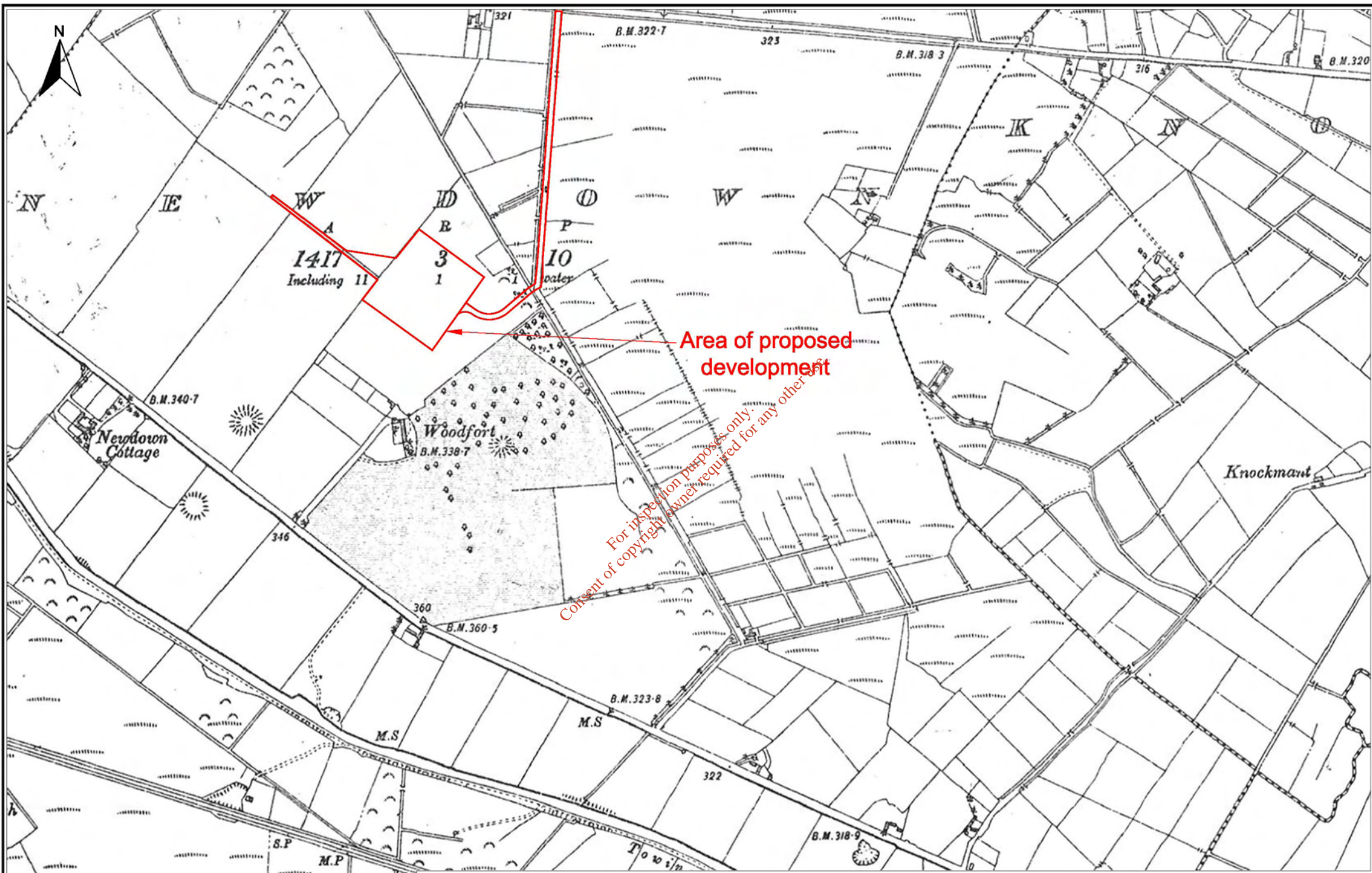
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 Date: 18/02/11
 Produced by: G Kearney
 Job No: J2625
 Figure No: 8.4



IAC Irish Archaeological Consultancy

Title: Extract from the first edition OS map (1842), showing the area of proposed development
 Project: Newdown, Co. Westmeath
 Client: ORS Consulting Engineers on behalf of Bio Agrigas Ltd

Scale: N.T.S. @ A4
 Date: 18/02/11
 Produced by: G Kearney
 Job No: J2625
 Figure No: 8.5



Area of proposed development

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Title:	Extract from the third edition OS map (1914), showing the area of proposed development	Scale:	N.T.S. @ A4
Project:	Newdown, Co. Westmeath	Date:	18/02/11
Client:	ORS Consulting Engineers on behalf of Bio Agrigas Ltd	Produced by:	G Kearney
		Job No:	J2625
		Figure No:	8.6