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# A90 Dualling Balmedie to Tipperty

## Volume 2 Environmental Statement: Figures

### August 2007

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# A90 Dualling, Balmedie to Tipperty

## Environmental Statement

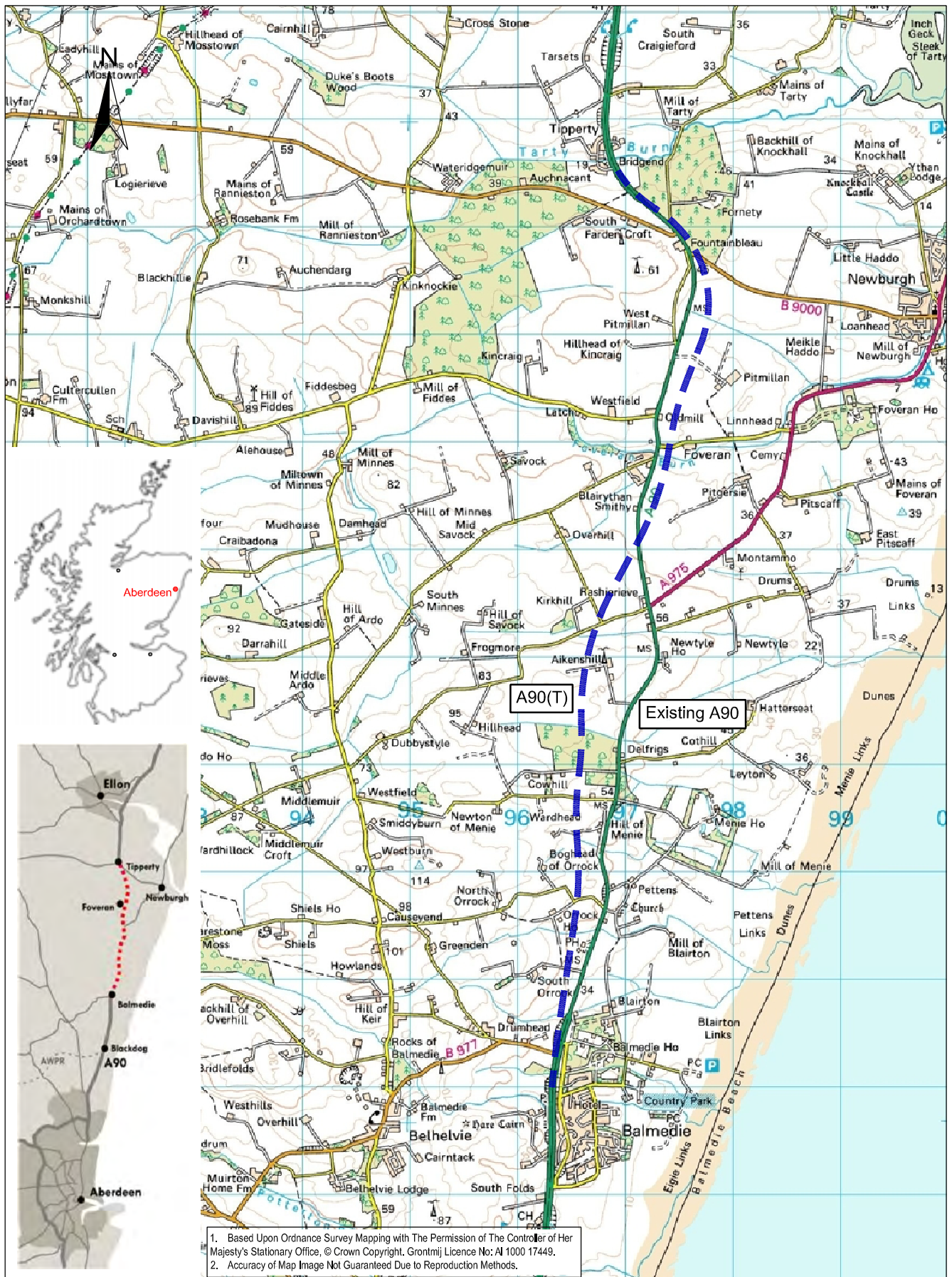
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This Environmental Statement comprises:

- Non-Technical Summary
- Volume 1 – Main Statement  
including the Non-Technical Summary
- **Volume 2 – Environmental Statement: Figures**

|                  |   |
|------------------|---|
| Figure 1.1       | Location Map  |
| Figure 2.1       | Route Options   |
| Figure 3.1a-e    | Scheme Design   |
| Figure 3.2       | All Purpose Dual Carriageway Typical Cross Section  |
| Figure 4.1       | Existing Network 2..5, Annual Average Daily Traffic (AADT)  |
| Figure 4.2       | Traffic Flows 2010 and 2025   |
| Figure 6.1 a-e   | Land Use  |
| Figure 6.2       | Existing Public Utilities   |
| Figure 7.1 a-e   | Agricultural Land Use   |
| Figure 8.1       | Solid Geology   |
| Figure 8.2       | Drift Geology   |
| Figure 10.1 a-b  | Nature Conservation Designations  |
| Figure 10.2 a-c  | Phase I Habitat Map   |
| Figure 11.1 a-b  | Visual Envelope Map   |
| Figure 11.2      | Local Landscape Designations  |
| Figure 11.3      | Landscape Character Zones   |
| Figure 11.4      | Landscape Character Sketches, Formantine Links Developed/Developing Zone                                      |
| Figure 11.5      | Landscape Character Sketches, Formantine Lowlands Southern Rolling Zone                                       |
| Figure 11.6      | Landscape Character Sketches, Formantine Lowlands Northern Open Zone  |
| Figure 11.7 a-h  | Outline Landscape Proposals   |
| Figure 11.8 a-f  | Outline Landscape Proposals, Illustrative Cross Sections  |
| Figure 11.9      | Photomontages, Viewpoints   |
| Figure 11.10     | Landscape Impact Photomontages, View towards Orrock House   |
| Figure 11.11     | Landscape Impact Photomontages, View from Stoneyards Cottages to the South-East                               |
| Figure 11.12     | Landscape Impact Photomontages, View from Overhill to the East  |
| Figure 11.13     | Landscape Impact Photomontages, View from Fornety to the West   |
| Figure 11.21 a-d | Visual Impact Summary Figures   |
| Figure 12.1 a-c  | Cultural Heritage Sites within the Scheme Corridor  |
| Figure 13.1      | Disruption due to Construction  |
| Figure 14.1 a-b  | Study Area  |
| Figure 14.2 a-b  | Measurement Locations   |
| Figure 14.3 a-g  | Predicted sample receptor point noise levels and proposed noise mitigation measures                           |
| Figure 14.4 a-b  | Noise Map for 2010 Do Minimum (DM)  |
| Figure 14.5 a-b  | Noise Map for 2010 Do Something (DS)  |
| Figure 14.6 a-b  | Noise Map for 2025 Do Minimum (DM)  |
| Figure 14.7 a-b  | Noise Map for 2025 Do Something (DS)  |
| Figure 14.8 a-b  | Noise Level Change Map for 2025DM – 2010DM  |
| Figure 14.9 a-b  | Noise Level Change Map for 2025DS – 2010DM  |
| Figure 14.10 a-b | Noise Level Change Map for 2010DS – 2010DM  |
| Figure 15.1      | Residential Properties considered in the Air Quality Assessment   |
| Figure 15.2 a-e  | Constraints Map Showing Properties within 200m of the Road Centreline   |
| Figure 15.3 a-e  | Properties most likely to Experience an Improvement or Deterioration in Air Quality as a Result of the Scheme |





**Key:**

- Existing A90
- - - Proposed Route (A90(T))

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A90 Dualling - Balmedie to Tippetry

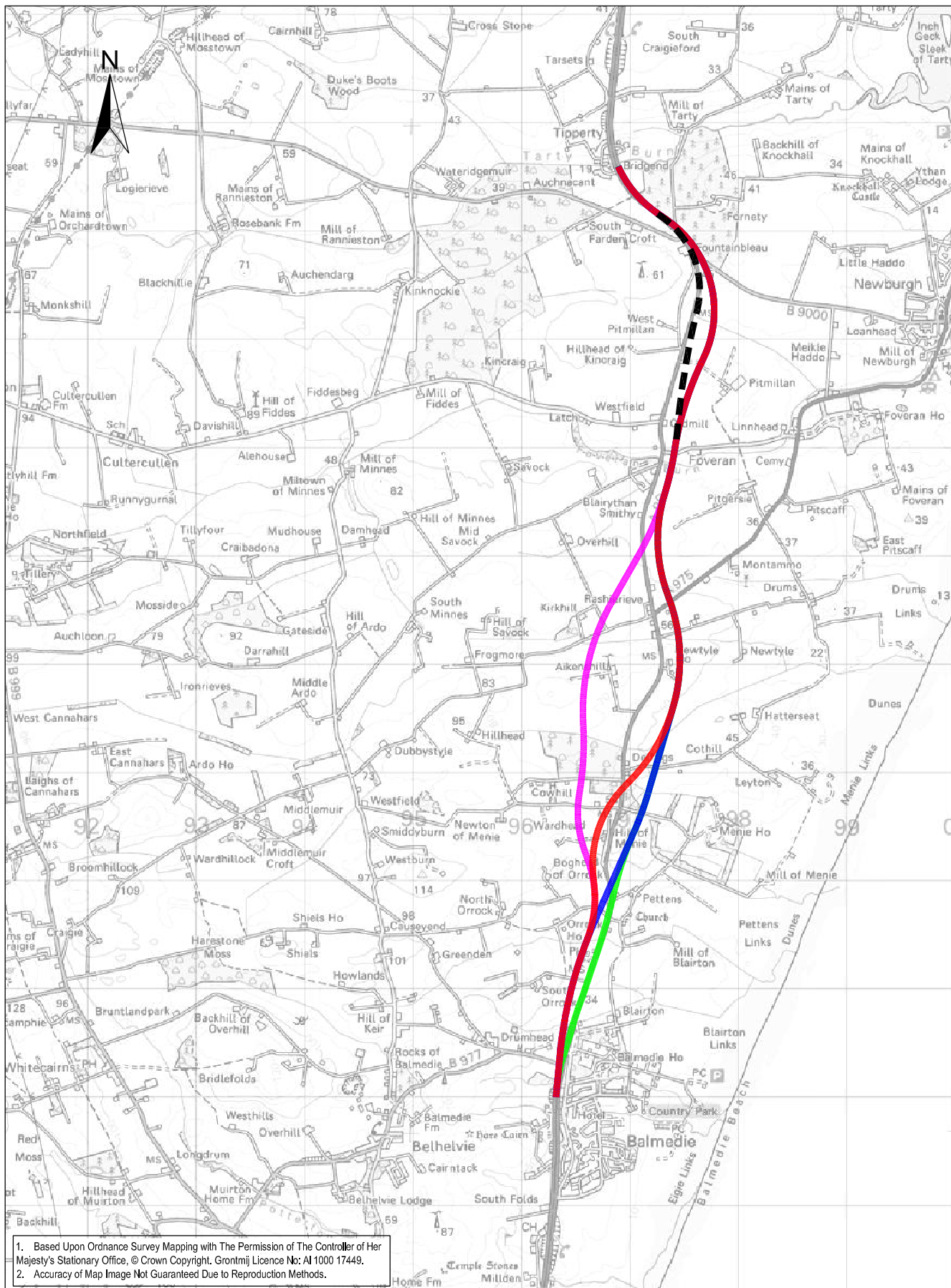
**Location Map**

Figure 1.1

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**Key:**

- Sub-option 1
- Sub-option 2
- Sub-option 3
- - - Sub-option 4
- Sub-option 5

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A90 Dualling - Balmedie to Tippetry

**Route Options**

Figure 2.1

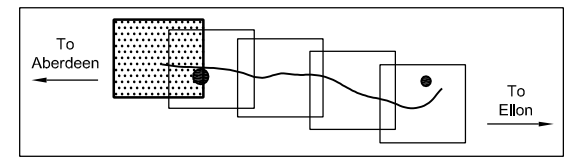
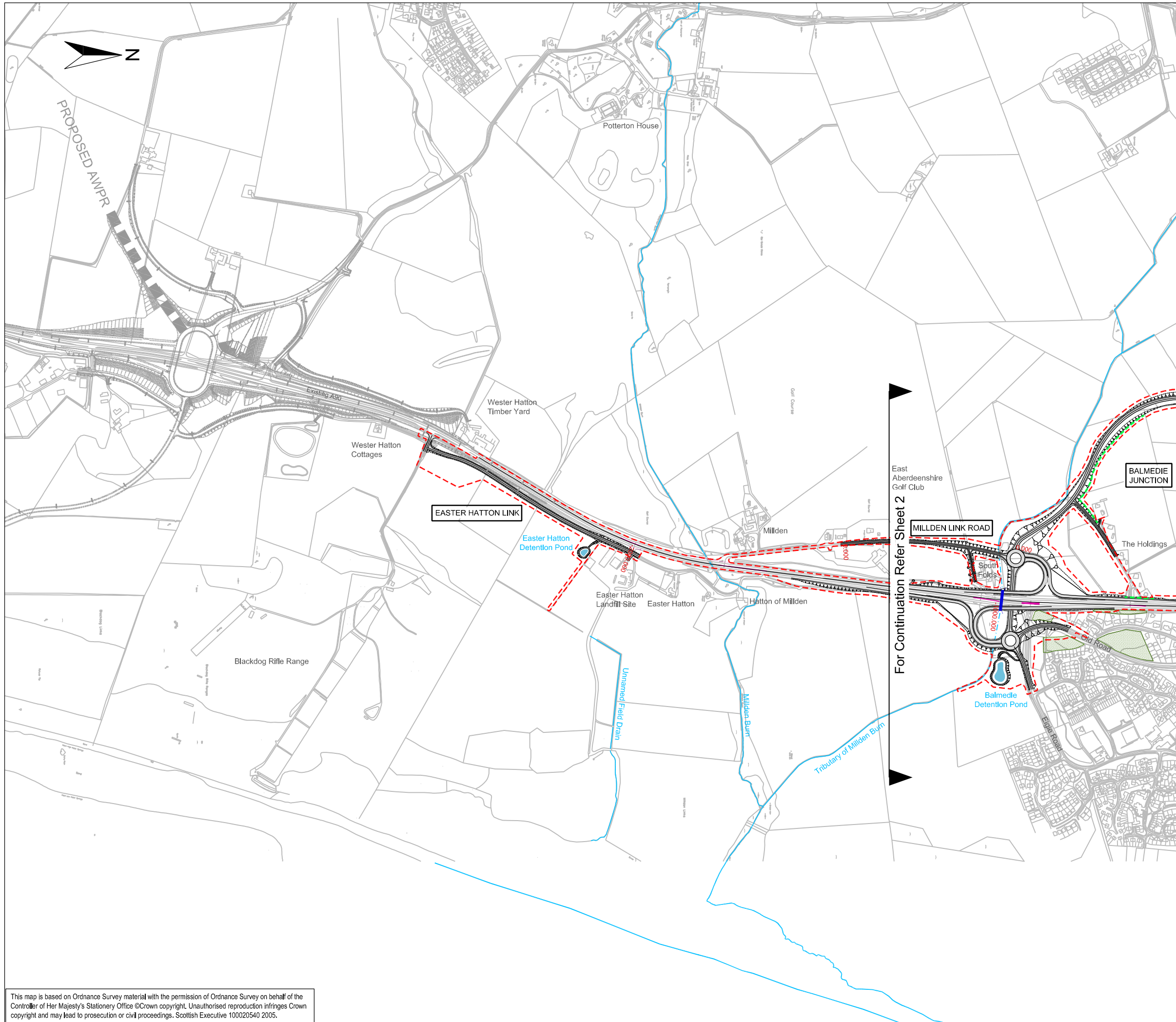
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- Key:**
- - - Proposed CPO Line
  - Existing Watercourse
  - Existing Woodland
  - - - Proposed Noise Barrier
  - Proposed Central Reserve Gap Closure
  - = Proposed Major Culverts

For Continuation Refer Sheet 2

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A90 Dualling - Balmedie to Tippetry

**Scheme Design**  
Sheet 1 of 5

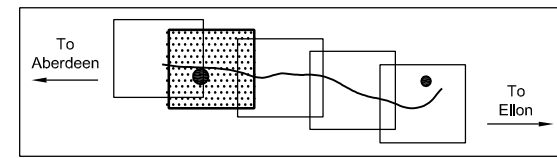
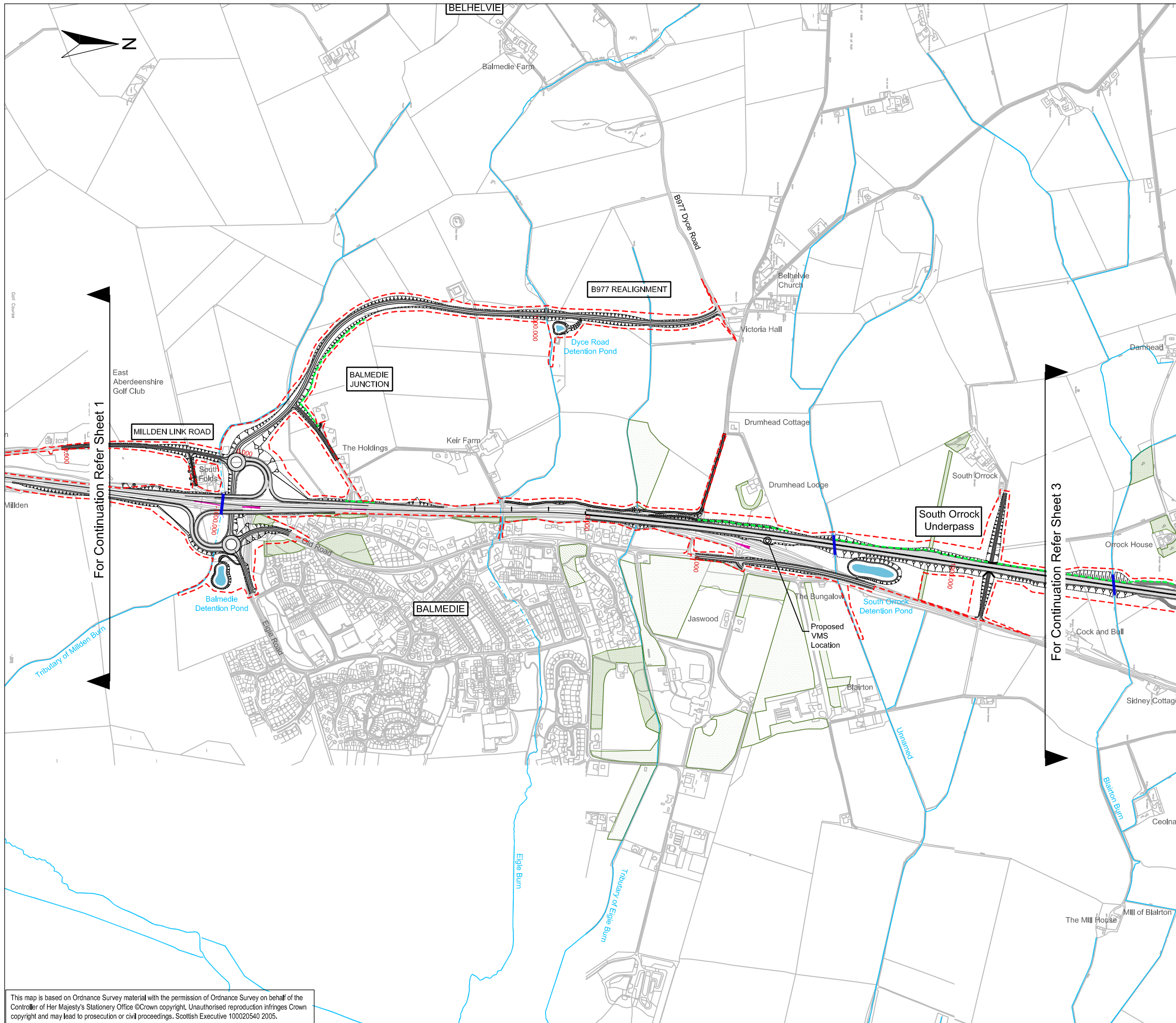
Figure 3.1a

Scale 1 : 10 000 at A3



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**A90 Dualling - Balmedie to Tippetry**

**Scheme Design**  
Sheet 2 of 5

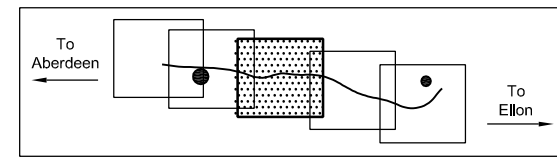
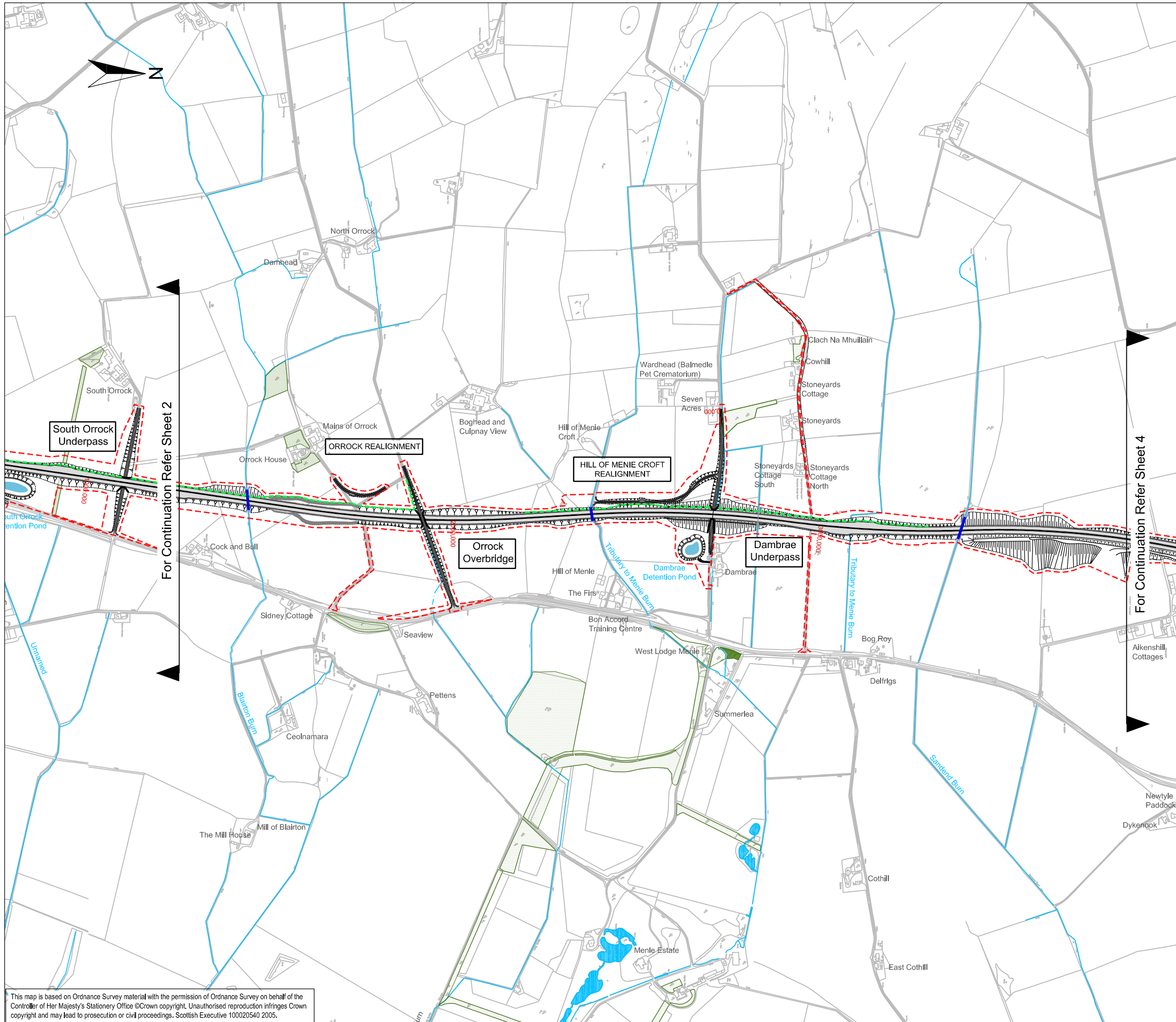
Figure 3.1b

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A90 Dualling - Balmedie to Tippetry

**Scheme Design**  
Sheet 3 of 5

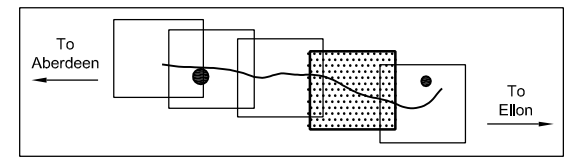
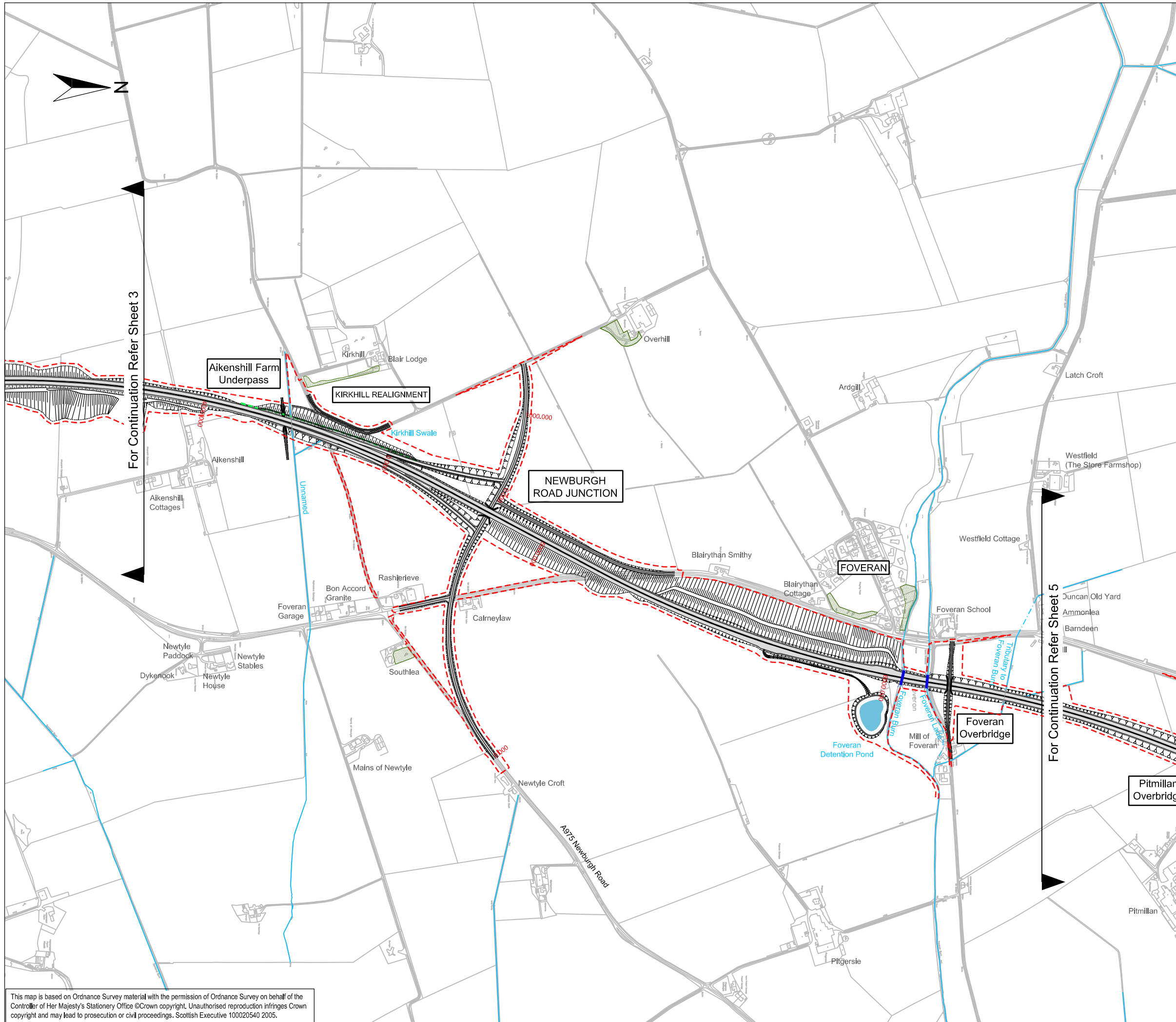
Figure 3.1c

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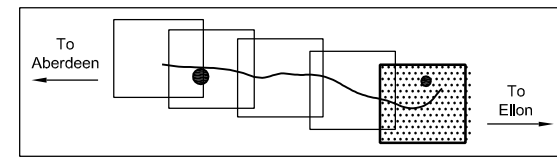
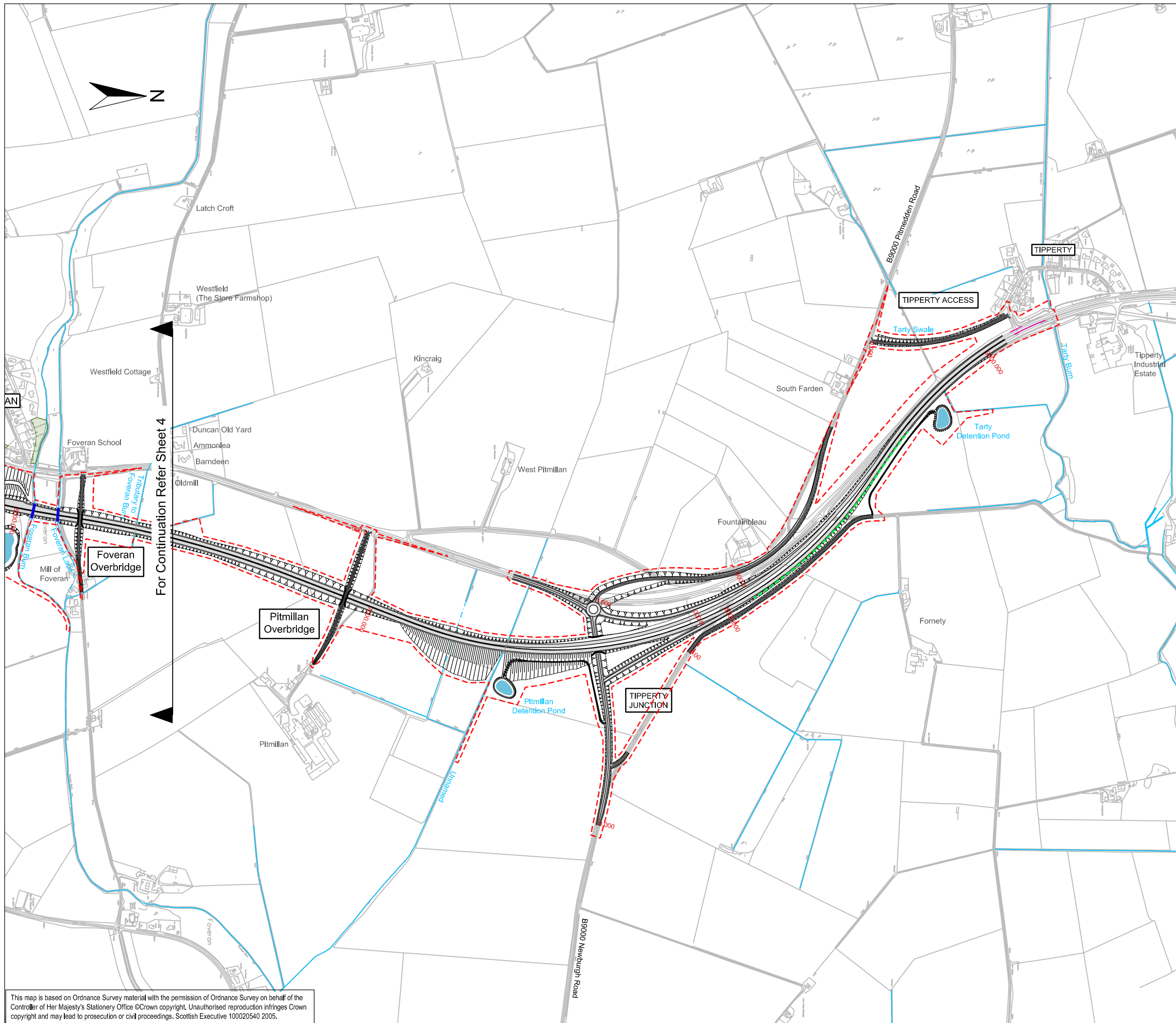
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|--|----------------|-------------|
| Drawn by: CG                               | Checked by: AS | Date: 08/07 |
| <b>A90 Dualling - Balmedie to Tippetry</b> |                |             |
| <b>Scheme Design</b>                       |                |             |
| Sheet 4 of 5                               |                |             |
| Figure 3.1d                                |                |             |
| Scale 1 : 10 000 at A3                     |                |             |



TRANSPORT SCOTLAND








- Key:**
- - - Proposed CPO Line
  - Existing Watercourse
  - Existing Woodland
  - - - Proposed Noise Barrier
  - Proposed Central Reserve Gap Closure
  - = Proposed Major Culverts

For Continuation Refer Sheet 4

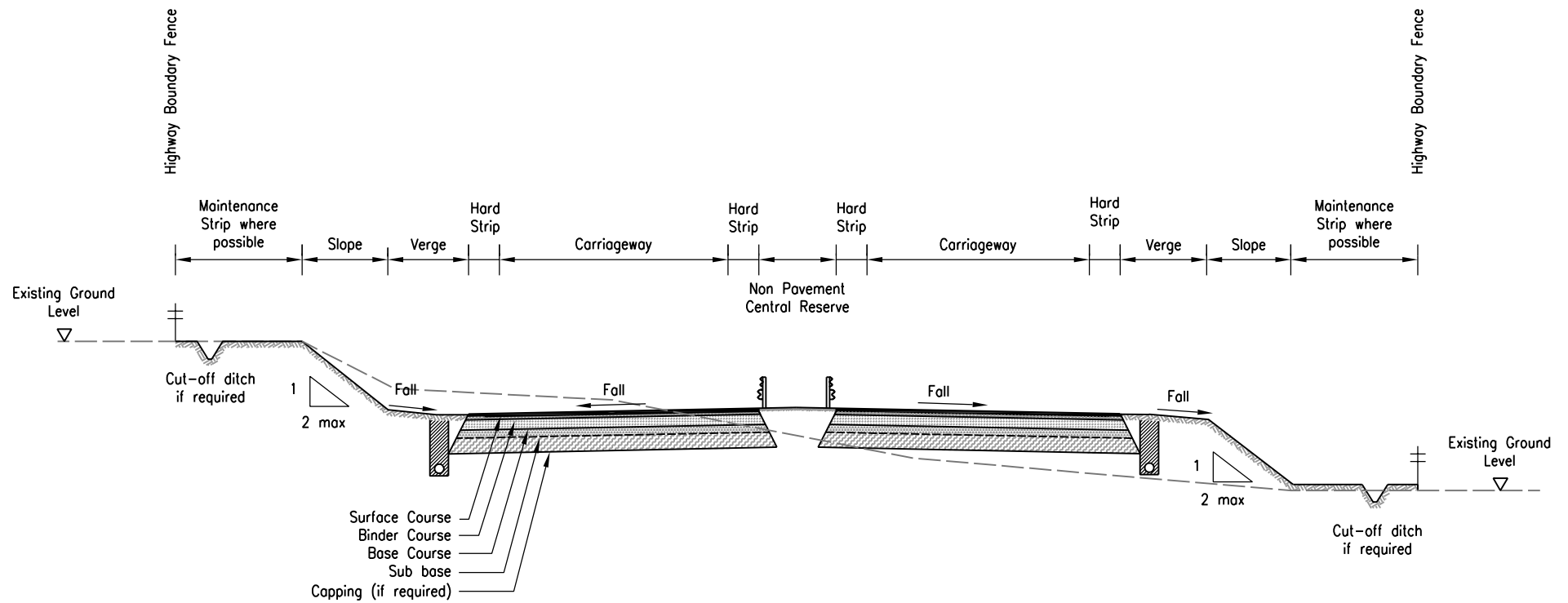
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|--|----------------|-------------|
| Drawn by: CG                               | Checked by: AS | Date: 08/07 |
| <b>A90 Dualling - Balmedie to Tipterty</b> |                |             |
| <b>Scheme Design</b>                       |                |             |
| Sheet 5 of 5                               |                |             |
| Figure 3.1e                                |                |             |
| Scale 1 : 10 000 at A3                     |                |             |



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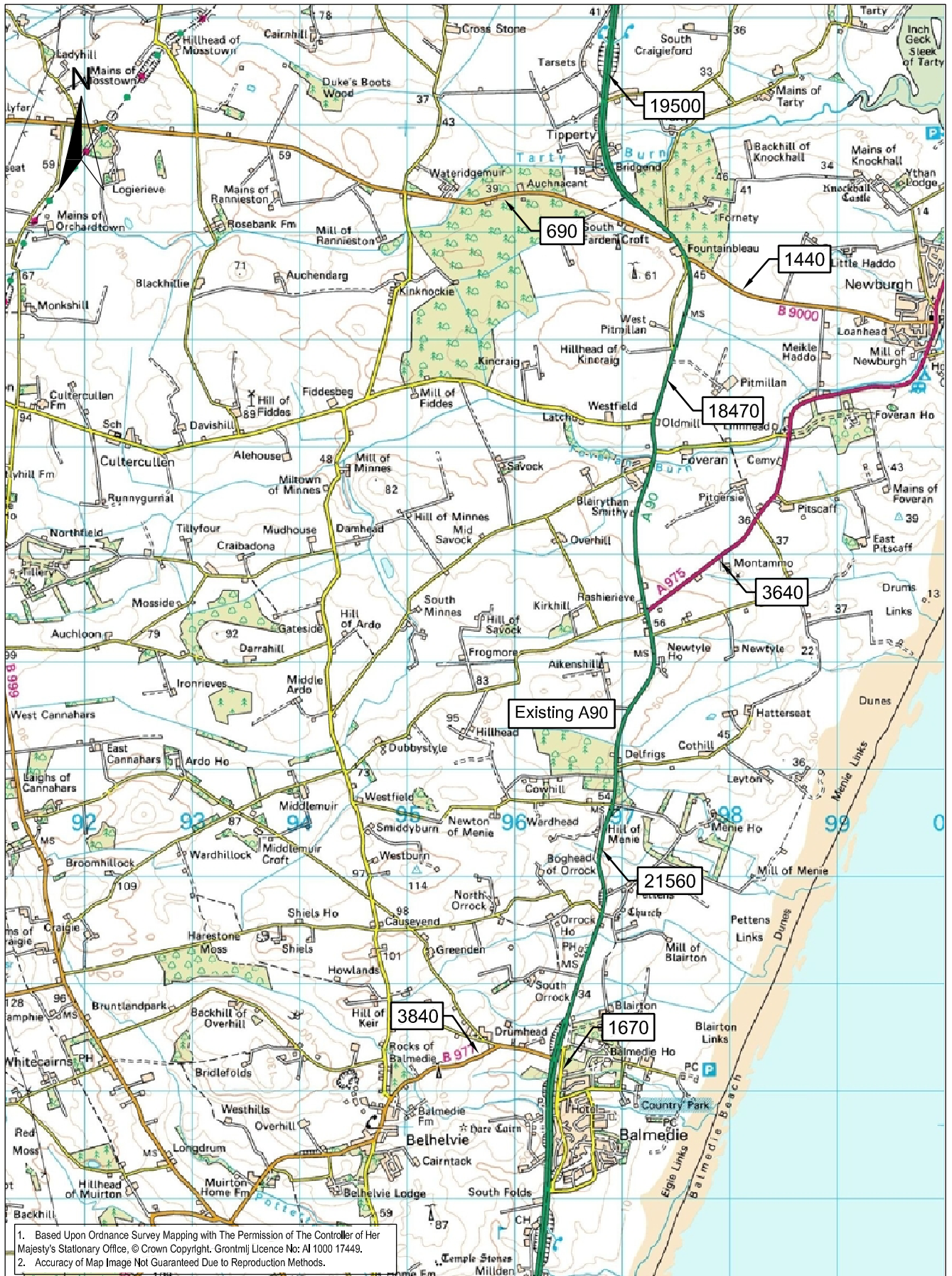
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| Drawn by: CG | Checked by: AS | Date: 08/07 |
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A90 Dualling - Balmedie to Tipperty  
**All Purpose Dual Carriageway**  
**Typical Cross Section**

Figure 3.2  
 Scale NTS







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**Key:**

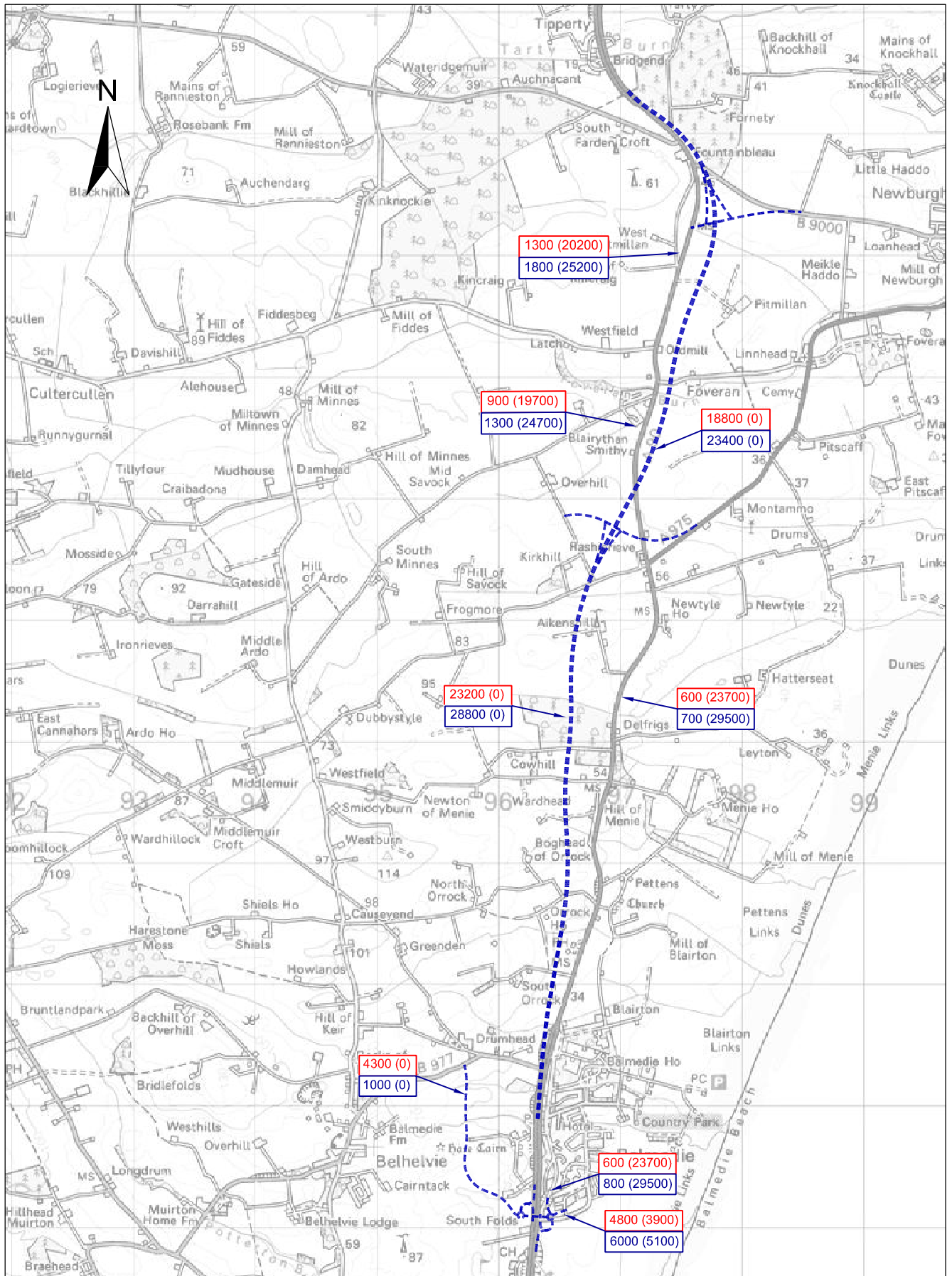
1670 Total Average Daily Traffic Movements

|              |                |             |
|--------------|----------------|-------------|
| Drawn by: CG | Checked by: AS | Date: 08/07 |
|--------------|----------------|-------------|

**A90 Dualling - Balmedie to Tipperty**  
**Existing Network 2005**  
 Annual Average Daily Traffic (AADT)  
 Figure 4.1  
 Scale 1 : 50 000 at A4







**Key:**

- Average Annual Daily Traffic without new road in place 2010
- Average Annual Daily Traffic with new road in place 2010
- Average Annual Daily Traffic with new road in place 2025
- Average Annual Daily Traffic without new road in place 2025

1200 (0)

1200 (0)

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**A90 Dualling - Balmedie to Tipterty  
Traffic Flows 2010 and 2025**

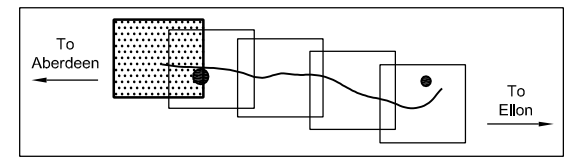
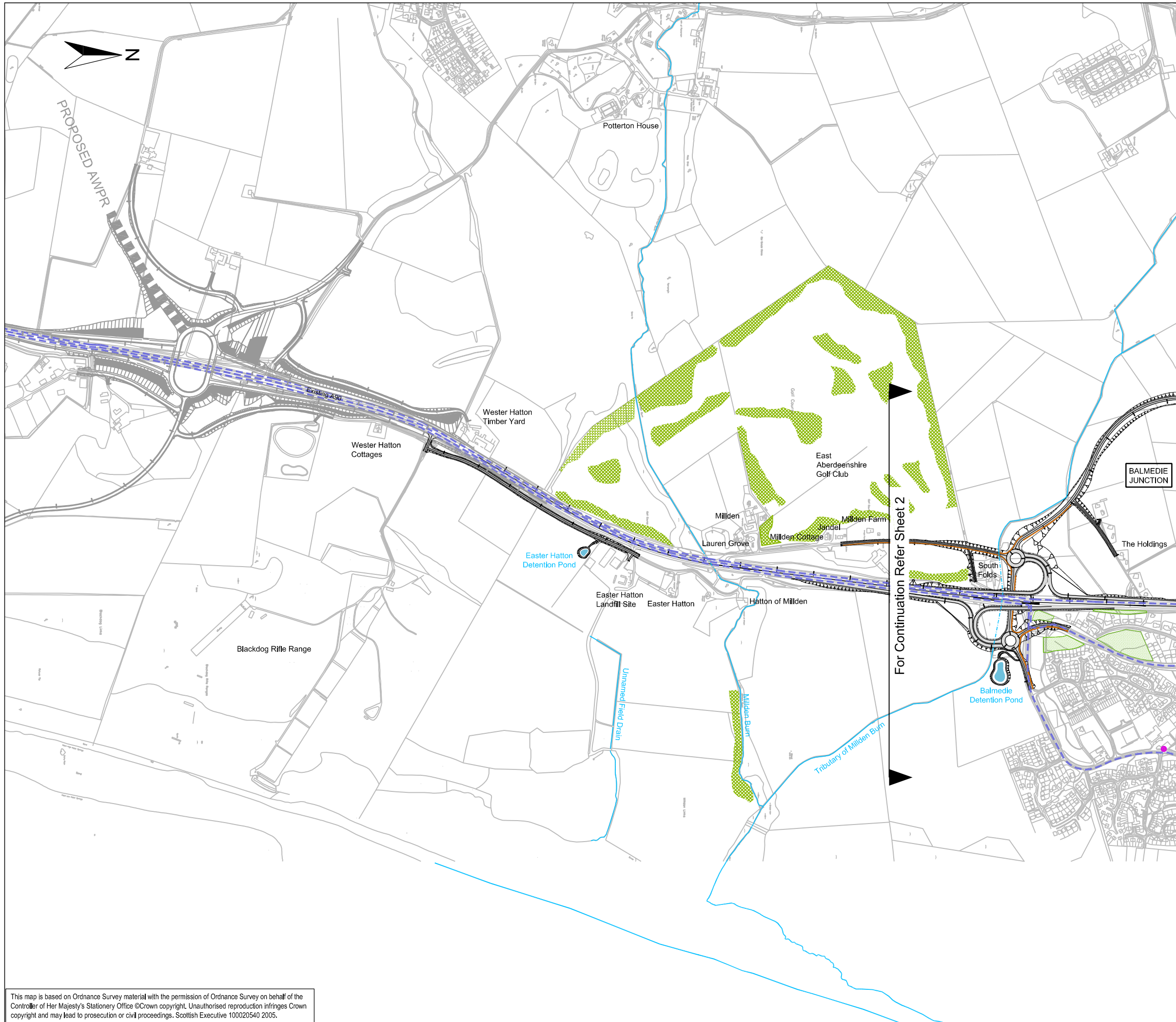
**Figure 4.2**

Scale NTS









- Key:**
- Bus Route
  - Bus Stop
  - Public Right of Way
  - Existing Watercourse
  - Known Private Water Extraction
  - Existing Woodland
  - Existing Scottish Forestry Grant Scheme
  - Proposed Footway

Drawn by: CG    Checked by: AS    Date: 08/07

**A90 Dualling - Balmedie to Tippetry**

**Land Use**  
Sheet 1 of 5

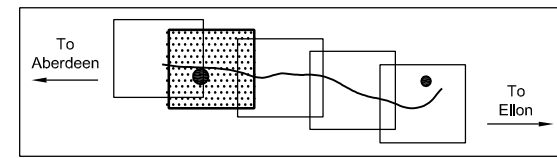
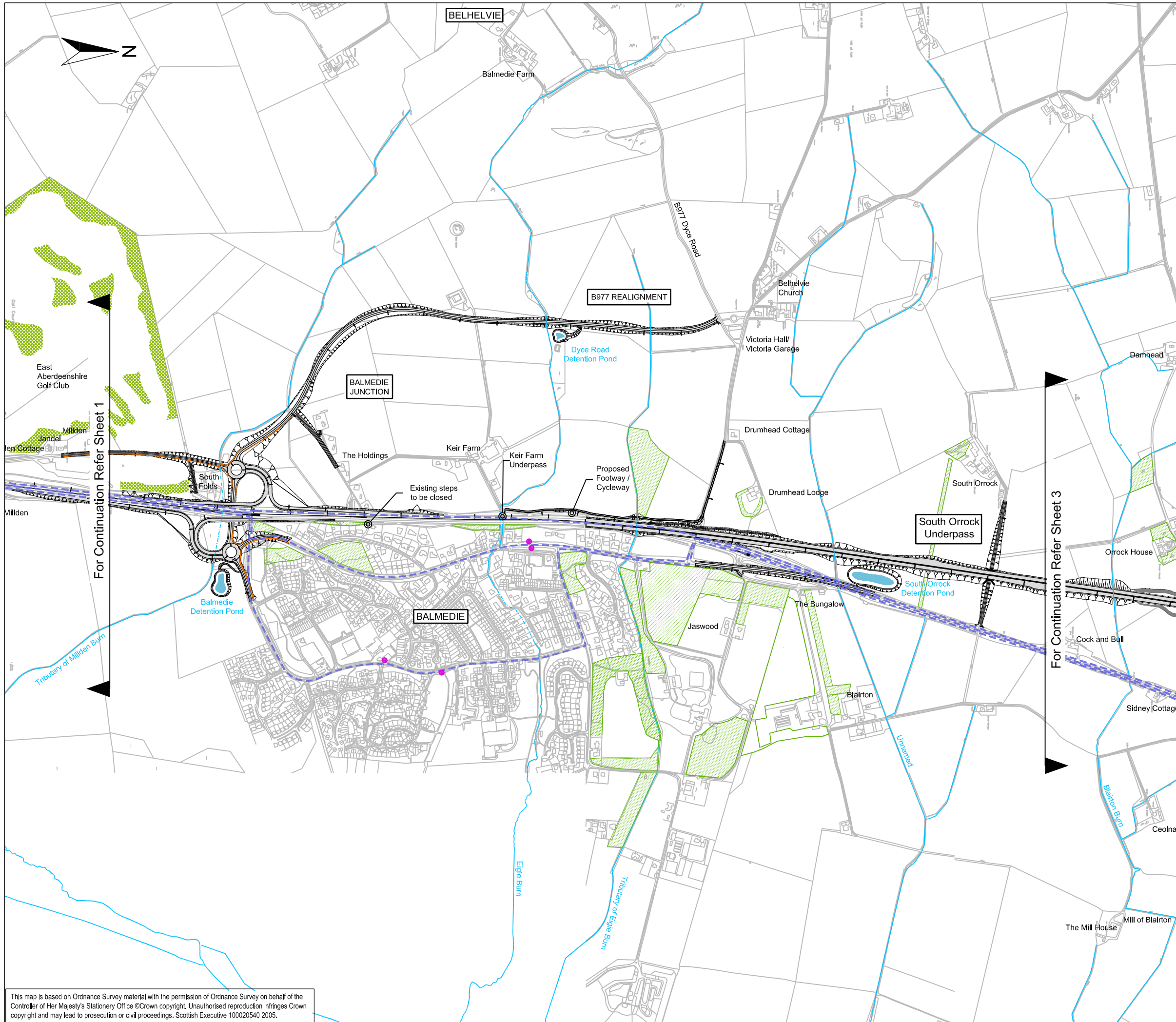
Figure 6.1a

Scale 1 : 10 000 at A3



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- Key:**
- Bus Route
  - Bus Stop
  - Public Right of Way
  - Existing Watercourse
  - ⊙ Known Private Water Extraction
  - Existing Woodland
  - Existing Scottish Forestry Grant Scheme
  - Proposed Footway

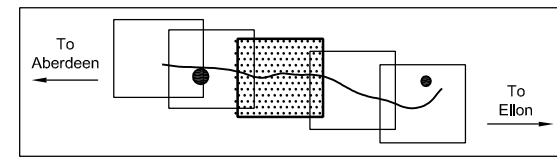
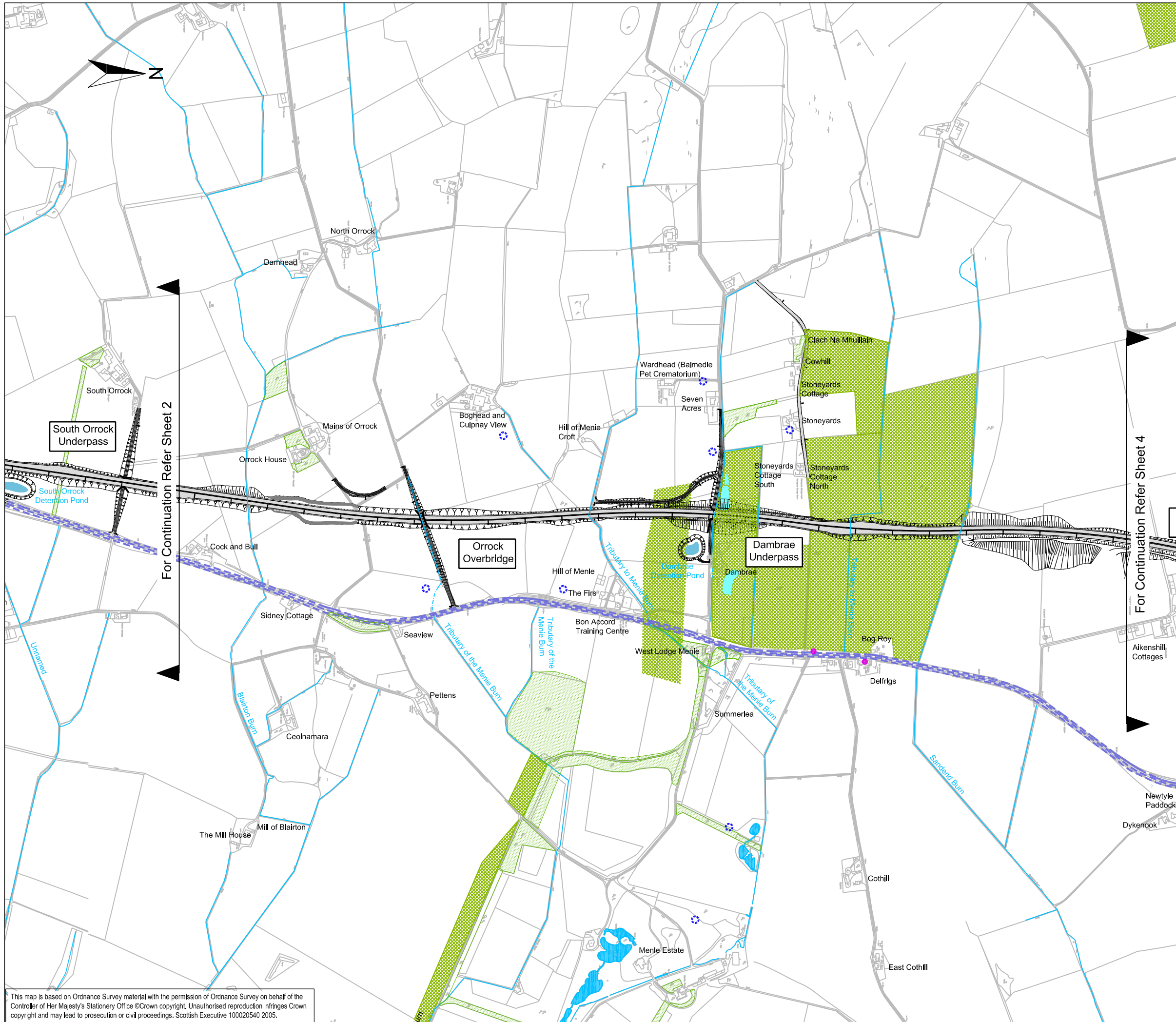
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**A90 Dualling - Balmedie to Tippetry**  
**Land Use**  
 Sheet 2 of 5  
 Figure 6.1b  
 Scale 1 : 10 000 at A3



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- Key:**
- - - Bus Route
  - Bus Stop
  - - - Public Right of Way
  - Existing Watercourse
  - ⊗ Known Private Water Extraction
  - Existing Woodland
  - Existing Scottish Forestry Grant Scheme
  - Proposed Footway

For Continuation Refer Sheet 2

For Continuation Refer Sheet 4

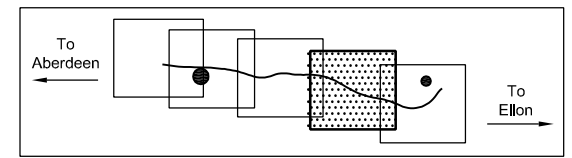
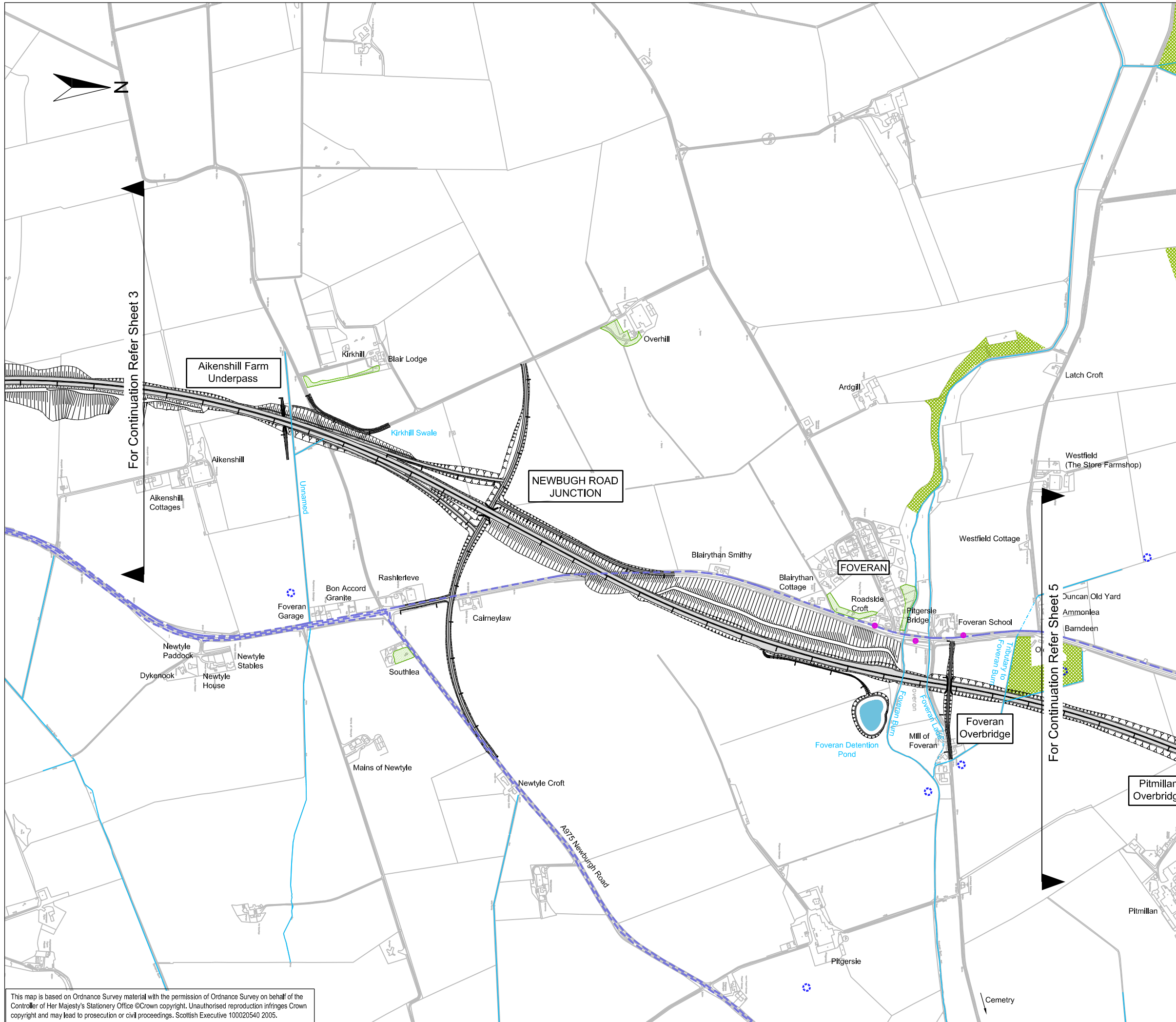
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A90 Dualling - Balmedie to Tippetry  
**Land Use**  
 Sheet 3 of 5  
 Figure 6.1c  
 Scale 1 : 10 000 at A3



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- Key:**
- - - Bus Route
  - Bus Stop
  - - - Public Right of Way
  - Existing Watercourse
  - ⊗ Known Private Water Extraction
  - Existing Woodland
  - Existing Scottish Forestry Grant Scheme
  - Proposed Footway

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**A90 Dualling - Balmedie to Tippetry**

**Land Use**  
Sheet 4 of 5

Figure 6.1d

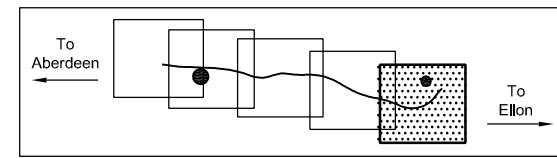
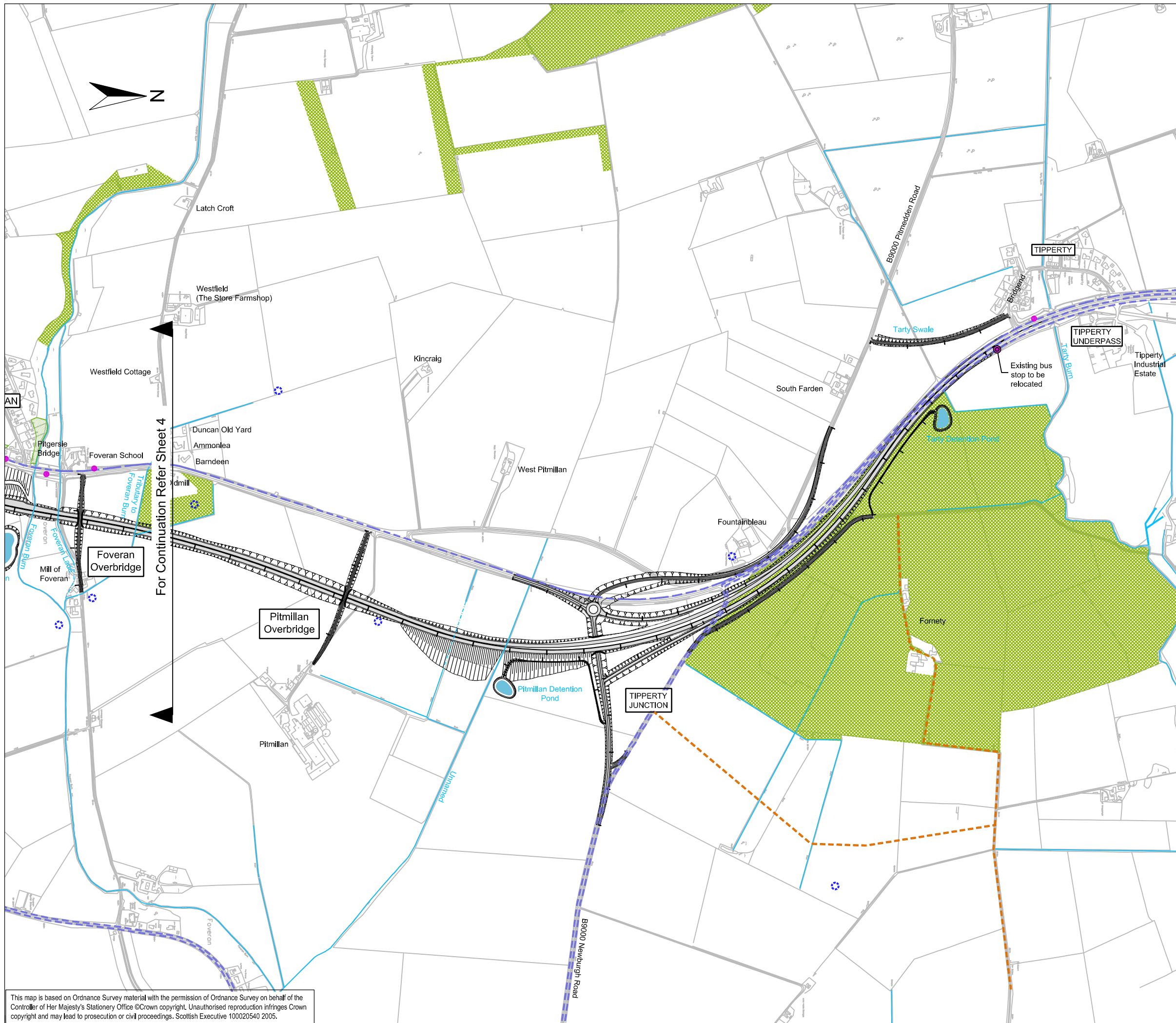
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- Key:**
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  - Bus Stop
  - - - Public Right of Way
  - Existing Watercourse
  - ⊗ Known Private Water Extraction
  - Existing Woodland
  - Existing Scottish Forestry Grant Scheme
  - Proposed Footway

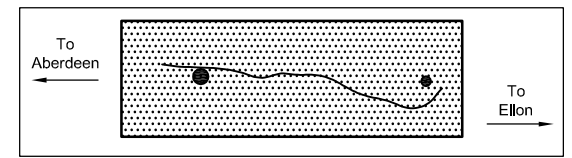
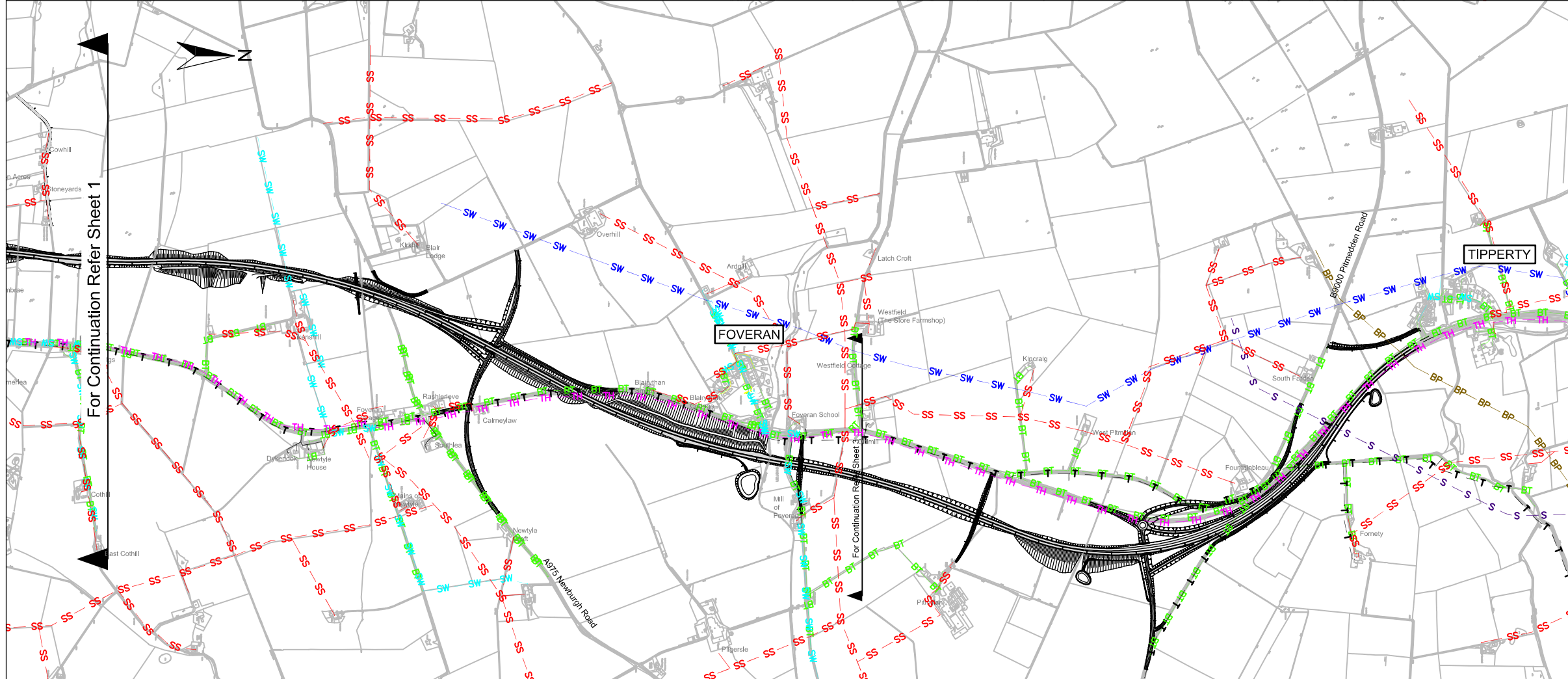
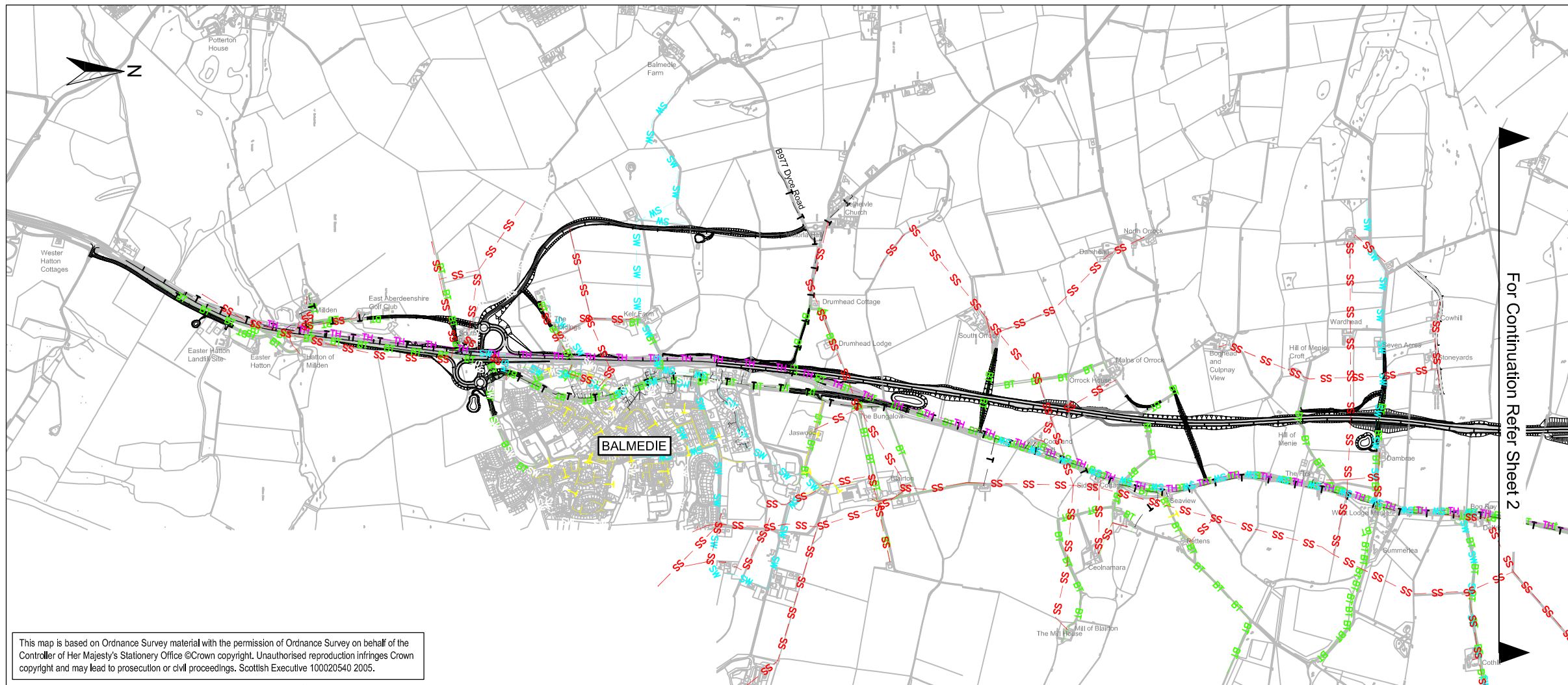
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A90 Dualling - Balmedie to Tippetty  
**Land Use**  
 Sheet 5 of 5  
 Figure 6.1e  
 Scale 1 : 10 000 at A3



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**Key:**

|                                    |    |    |    |
|------------------------------------|----|----|----|
| British Telecom                    | BT | BT | BT |
| British Petroleum                  | BP | BP | BP |
| Shell                              | S  | S  | S  |
| THUS                               | TH | TH | TH |
| Transco MP Mains                   | T  | T  | T  |
| Scottish and Southern Energy       | SS | SS | SS |
| Scottish Water - Combined          | SW | SW | SW |
| Scottish Water - Distribution Main | SW | SW | SW |
| Scottish Water - Foul              | SW | SW | SW |
| Scottish Water - Trunk Main        | SW | SW | SW |

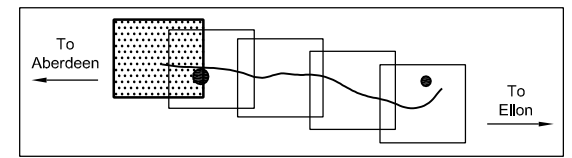
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|-----------|----|-------------|----|-------|-------|

**A90 Dualling - Balmedie to Tipperty**  
**Existing Public Utilities**  
 Sheet 1 of 1  
 Figure 6.2  
 Scale 1 : 20 000 at A3







**Key:**

| Land Class     | Description                               |
|----------------|---|
| 3 <sub>1</sub> | Consistant production of high yield crops |
| 3 <sub>2</sub> | Average production of high yield crops    |
| w              | Woodland                                  |
| ①              | Landowner Reference                       |

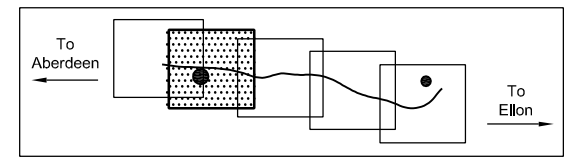
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A90 Dualling - Balmedie to Tippetry  
**Agricultural Land Use**  
 Sheet 1 of 5  
 Figure 7.1a  
 Scale 1 : 10 000 at A3



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**Key:**

| Land Class     | Description                               |
|----------------|---|
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| 3 <sub>2</sub> | Average production of high yield crops    |
| W              | Woodland                                  |
| ①              | Landowner Reference                       |

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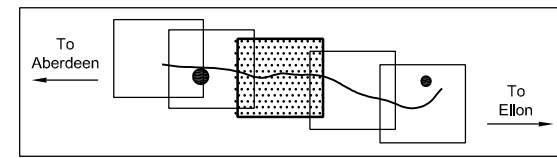
A90 Dualling - Balmedie to Tippetry  
**Agricultural Land Use**  
 Sheet 2 of 5  
 Figure 7.1b  
 Scale 1 : 10 000 at A3



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**Key:**

| Land Class     | Description                               |
|----------------|---|
| 3 <sub>1</sub> | Consistant production of high yield crops |
| 3 <sub>2</sub> | Average production of high yield crops    |
| W              | Woodland                                  |
| ①              | Landowner Reference                       |

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**A90 Dualling - Balmedie to Tippetry**

**Agricultural Land Use**  
Sheet 3 of 5

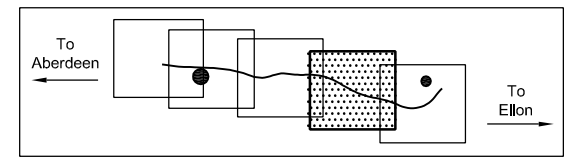
Figure 7.1c

Scale 1 : 10 000 at A3



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**Key:**

| Land Class     | Description                               |
|----------------|---|
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| 3 <sub>2</sub> | Average production of high yield crops    |
| W              | Woodland                                  |
| ①              | Landowner Reference                       |

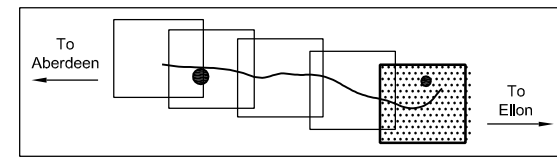
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|--------------|----------------|-------------|

**A90 Dualling - Balmedie to Tippetry**  
**Agricultural Land Use**  
 Sheet 4 of 5  
 Figure 7.1d  
 Scale 1 : 10 000 at A3







**Key:**

| Land Class     | Description                               |
|----------------|---|
| 3 <sub>1</sub> | Consistant production of high yield crops |
| 3 <sub>2</sub> | Average production of high yield crops    |
| W              | Woodland                                  |
| ①              | Landowner Reference                       |

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A90 Dualling - Balmedie to Tipperty

**Agricultural Land Use**  
Sheet 5 of 5

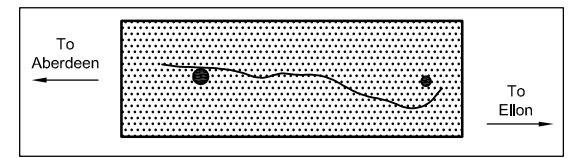
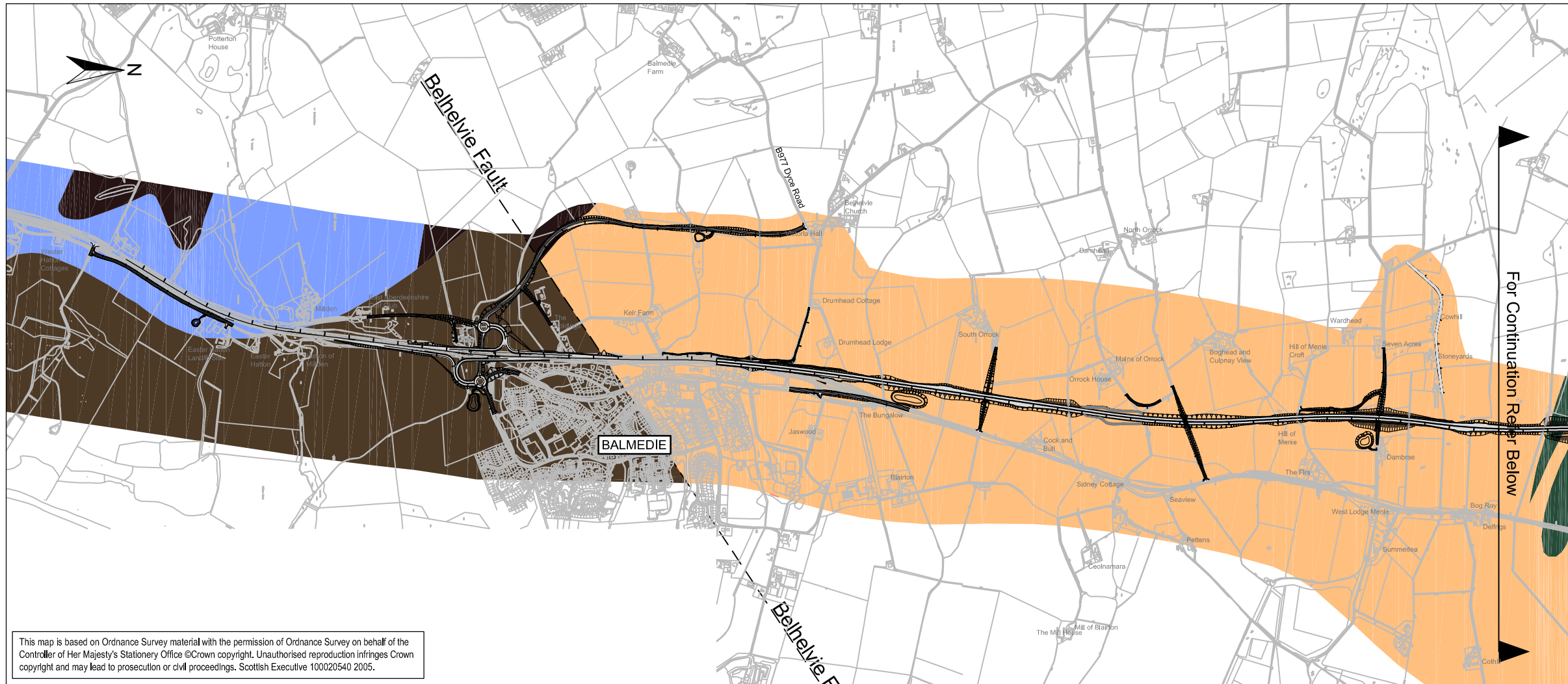
Figure 7.1e

Scale 1 : 10 000 at A3



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- Key:**
- Ellon Formation
  - Aberdeen Formation
  - Conglomerate
  - Dolerite and Basalt Intrusions
  - Amphibolite and Hornblende Schist
  - Gabbro and Norite
  - Peridotite

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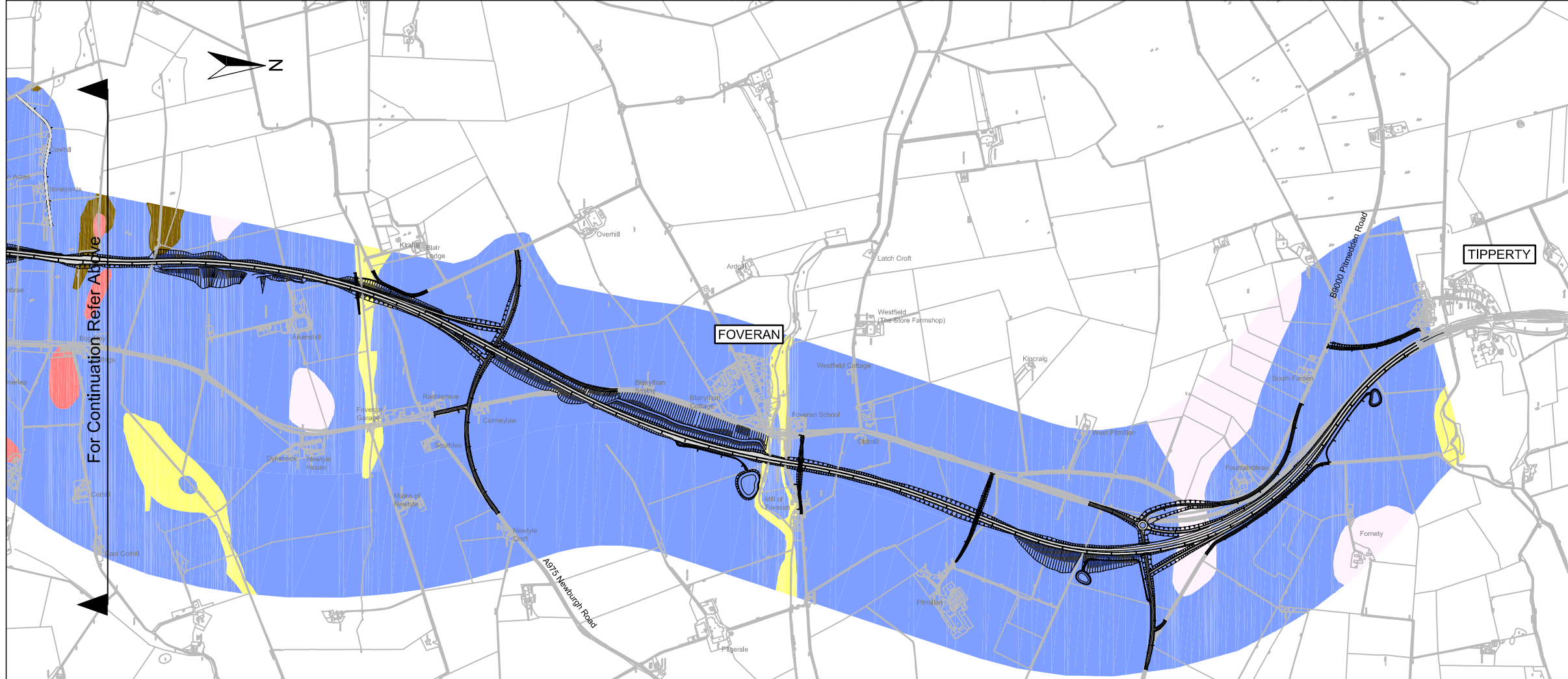
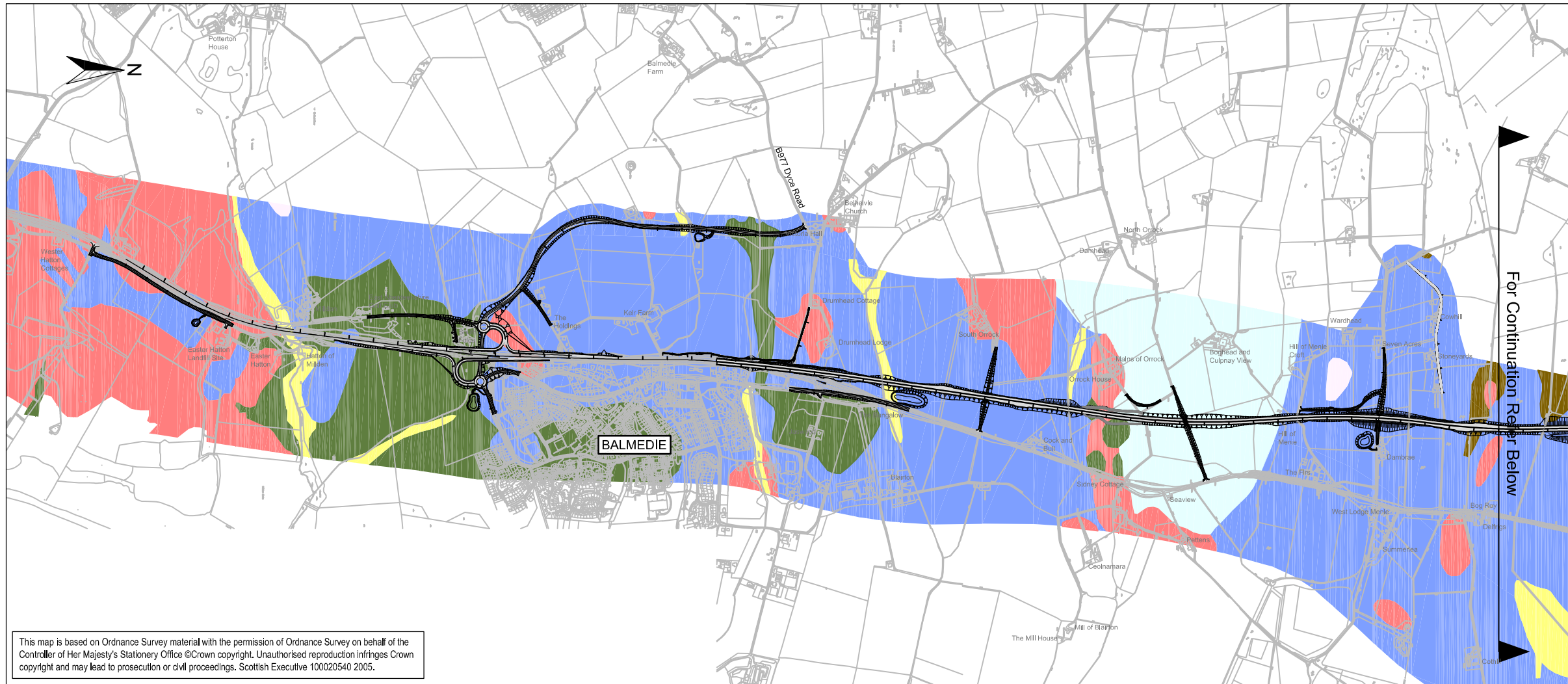
|  |                |             |
|--|----------------|-------------|
| Drawn by: CG                               | Checked by: AS | Date: 08/07 |
| <b>A90 Dualling - Balmedie to Tipperty</b> |                |             |
| <b>Solid Geology</b>                       |                |             |
| Sheet 1 of 1                               |                |             |
| Figure 8.1                                 |                |             |
| Scale 1 : 20 000 at A3                     |                |             |



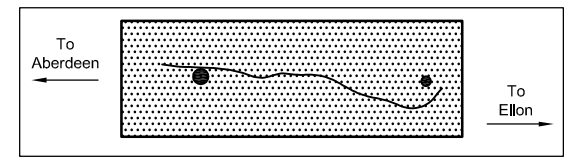
An agency of the Scottish Government







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- Key:**
- Glacial Till (Hatton Formation)
  - Glacial Till (Banchory Formation)
  - Alluvium
  - Glaciolacustrine Deposits
  - Glaciofluvial Deposits
  - Peat
  - Rock at or Near Surface

Drawn by: CG    Checked by: AS    Date: 08/07

**A90 Dualling - Balmedie to Tipperty**

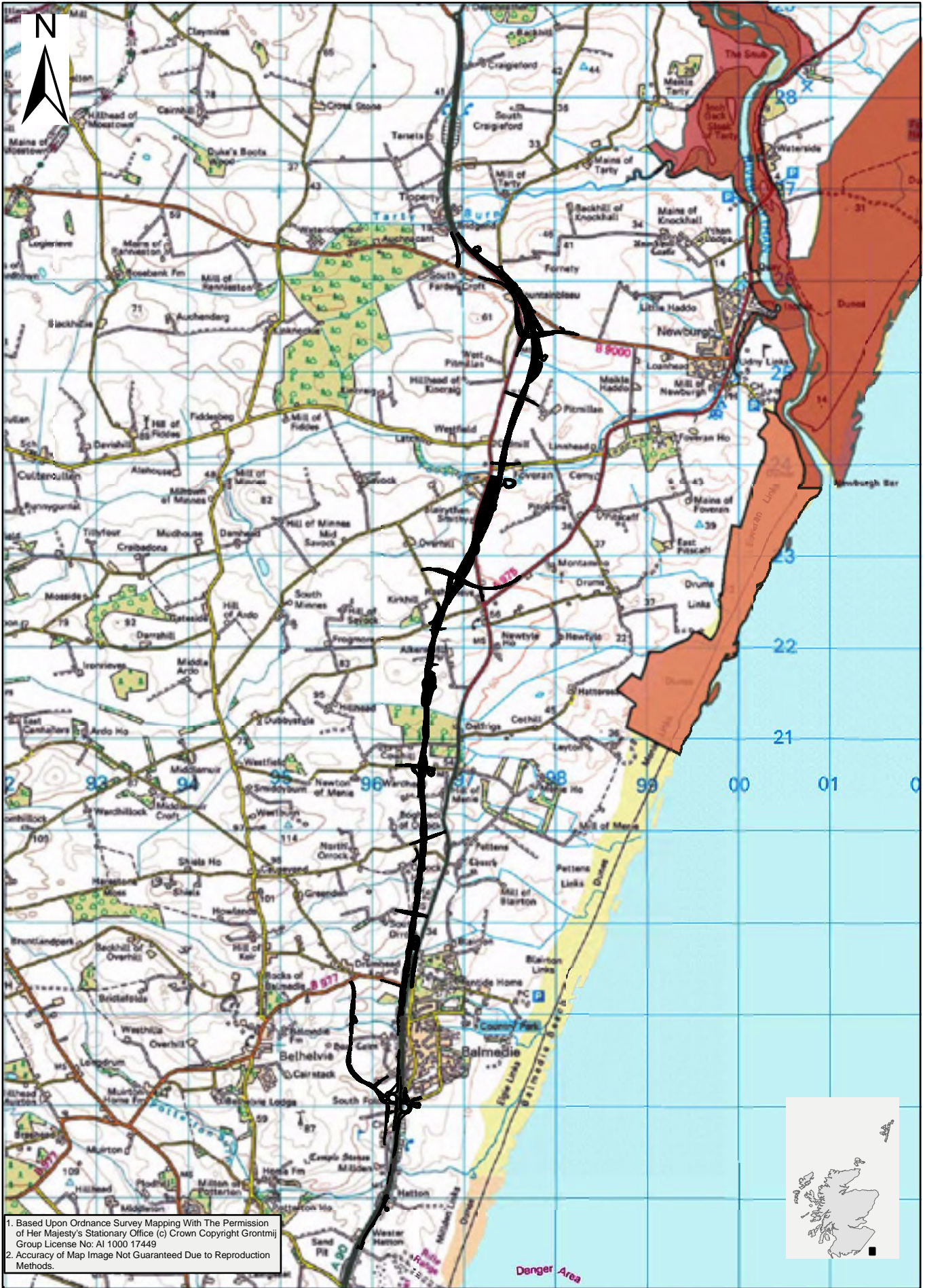
**Drift Geology**  
Sheet 1 of 1

Figure 8.2

Scale 1 : 20 000 at A3







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**Key**

- Scheme
- SSSI - Foveran Links
- SSSI - Ythan Estuary & Sands of Forvie

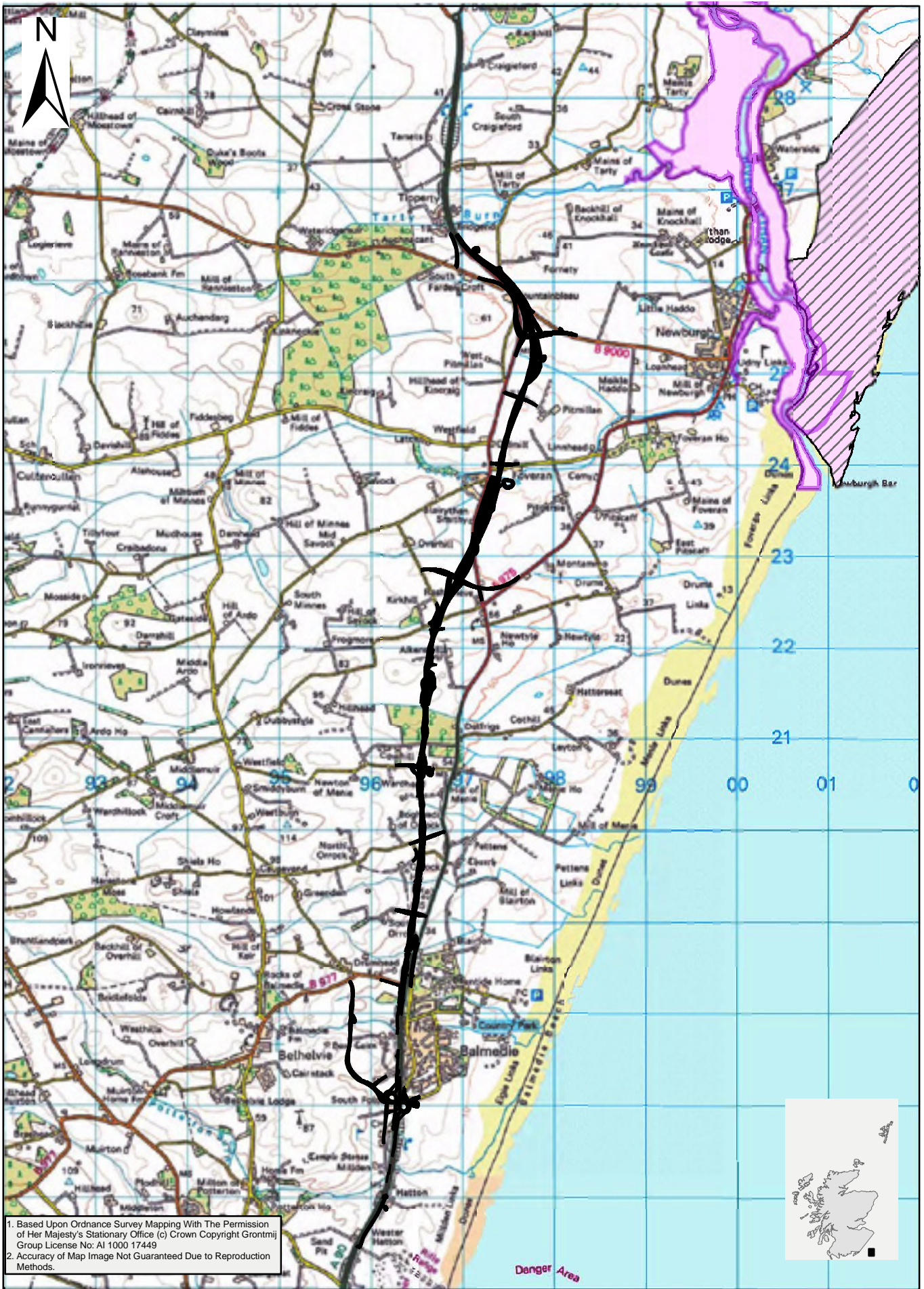
|                   |                   |                |
|-------------------|-------------------|----------------|
| Drawn by:<br>CO'S | Checked by:<br>AS | Date:<br>08/07 |
|-------------------|-------------------|----------------|

A90 Dualling - Balmedie to Tippetry  
 Nature Conservation Designations

Figure 10.1a  
 Scale: 1:50,000 at A4







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**Key**

- Scheme
- SPA and NNR
- Ramsar Site
- SAC

|                   |                   |                |
|-------------------|-------------------|----------------|
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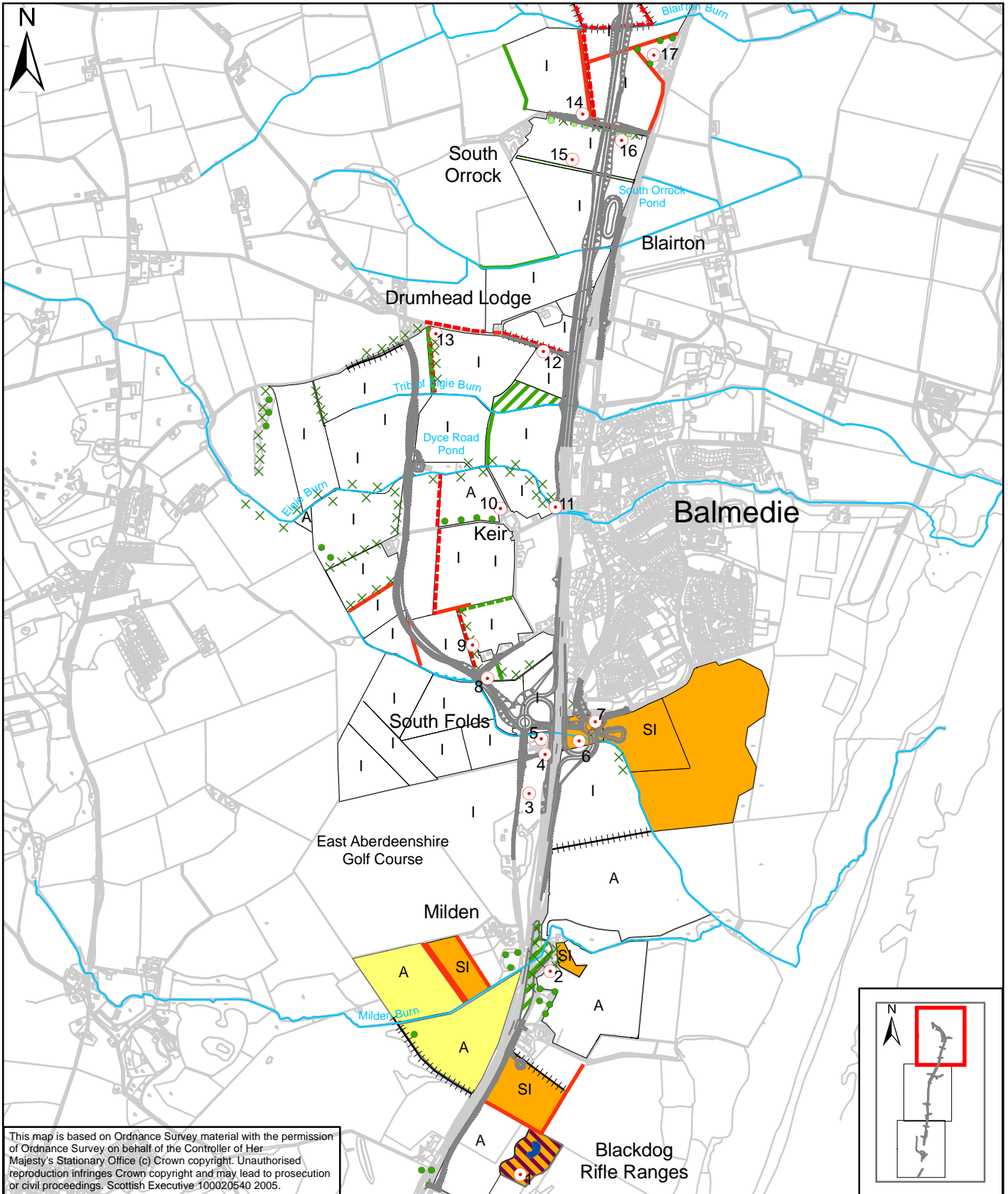
A90 Dualling - Balmedie to Tippetry  
 Nature Conservation Designations

Figure 10.1b

Scale: 1:50,000 at A4







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**Key**


- |                                  |                                      |                           |
|----------------------------------|--------------------------------------|---------------------------|
| ○ Target Note                    | ..... Hedgerow (defunct)             | ▨ Mixed Plantation        |
| — Scheme                         | — Hedgerow (intact)                  | ▨ Coniferous Plantation   |
| × Scattered Scrub                | Fence                                | ▨ Broad Leaved Plantation |
| ● Scattered Trees (coniferous)   | ■ Unimproved Neutral Grassland       | ■ Standing Water          |
| ● Scattered Trees (broad-leaved) | ■ SI Semi-improved Neutral Grassland |                           |
| — Running Water                  | ■ Marshy Grassland                   |                           |
| --- Ditch                        | ▨ Improved Grassland                 |                           |
| — Stone Wall                     | ■ A Amenity Grassland                |                           |
| --- Stone Wall (defunct)         | ■ A Arable                           |                           |

|                   |                   |                |
|-------------------|-------------------|----------------|
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|-------------------|-------------------|----------------|

**A90 Dualling - Balmedie to Tipperty**

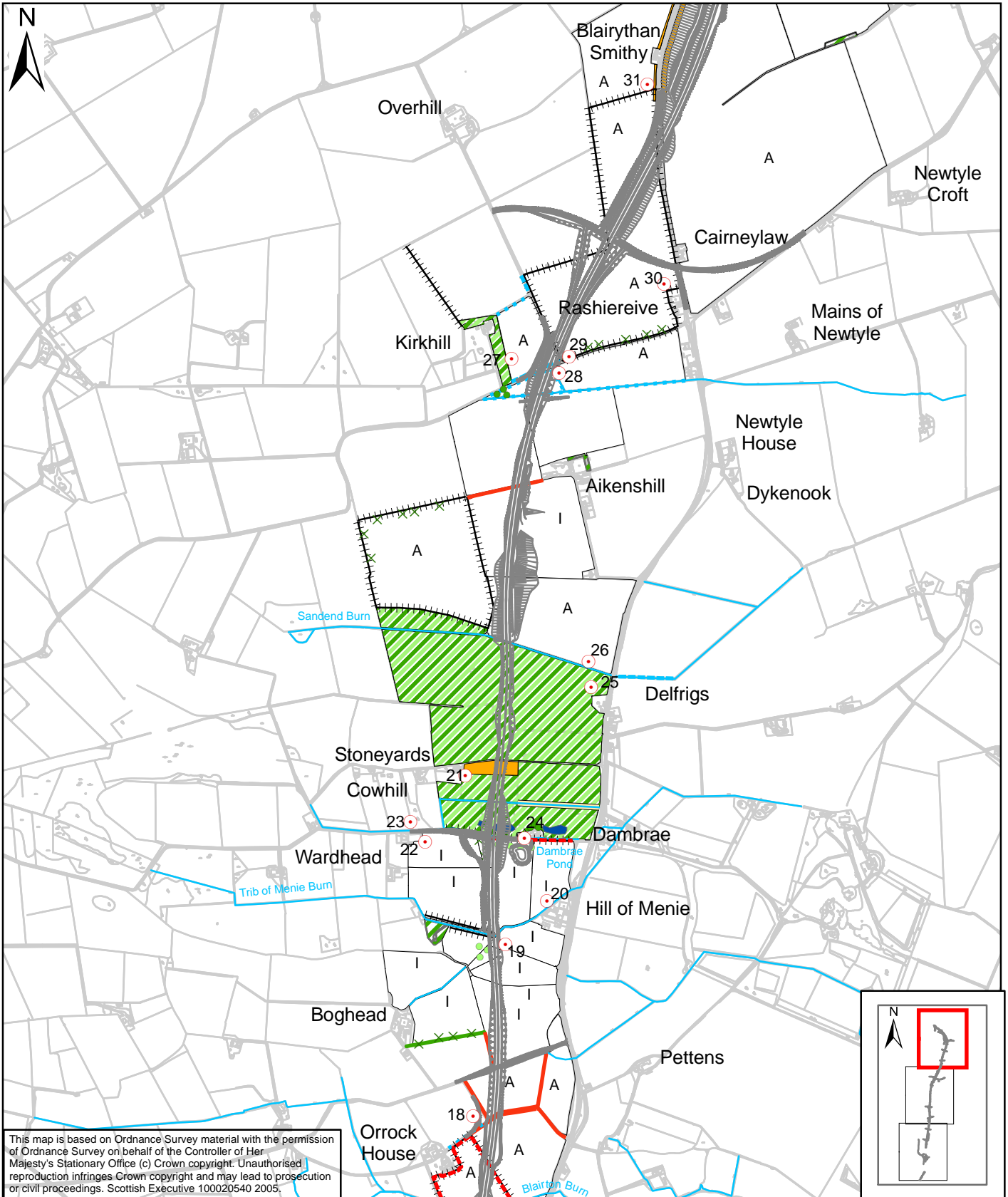
Phase I Habitat Map  
Figure 10.2a

Scale 1:10,000 at A4









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| Key                            |                                 |
|--------------------------------|---------------------------------|
| Target Note                    | Hedgerow (defunct)              |
| Scheme                         | Hedgerow (intact)               |
| Scattered Scrub                | Fence                           |
| Scattered Trees (coniferous)   | Unimproved Neutral Grassland    |
| Scattered Trees (broad-leaved) | Semi-improved Neutral Grassland |
| Running Water                  | Marshy Grassland                |
| Ditch                          | Improved Grassland              |
| Stone Wall                     | Amenity Grassland               |
| Stone Wall (defunct)           | Arable                          |
|                                | Mixed Plantation                |
|                                | Coniferous Plantation           |
|                                | Broad Leaved Plantation         |
|                                | Standing Water                  |

|                   |                   |                |
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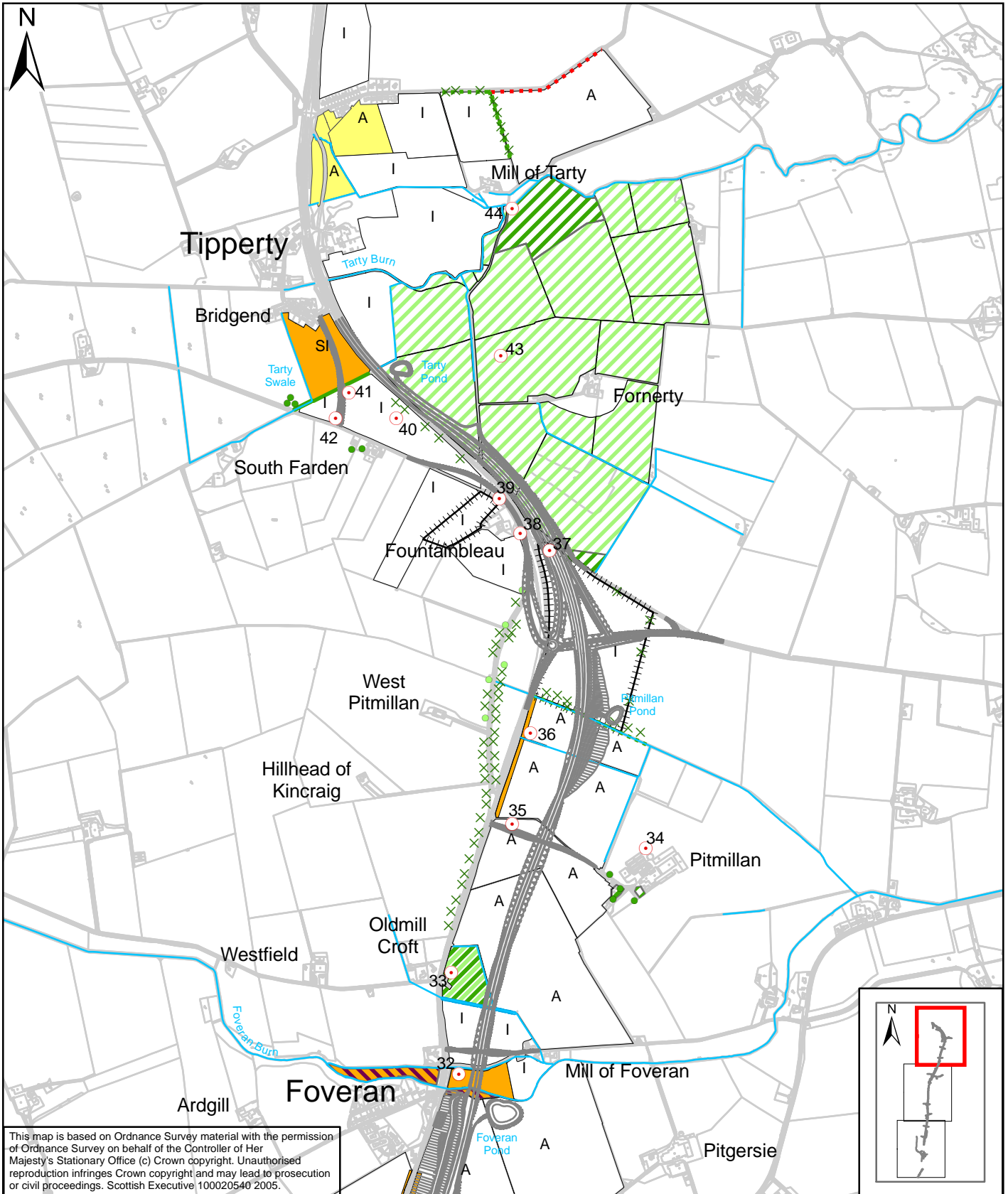
**A90 Dualling - Balmedie to Tipperty**

Phase I Habitat Map  
Figure 10.2b

Scale 1:10,000 at A4







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**Key**

- Target Note
- Scheme
- × Scattered Scrub
- Scattered Trees (coniferous)
- Scattered Trees (broad-leaved)
- Running Water
- Ditch
- Stone Wall
- Stone Wall (defunct)
- Hedgerow (defunct)
- Hedgerow (intact)
- ++++ Fence
- Unimproved Neutral Grassland
- SI Semi-improved Neutral Grassland
- Marshy Grassland
- I Improved Grassland
- A Amenity Grassland
- A Arable
- Mixed Plantation
- Coniferous Plantation
- Broad Leaved Plantation
- Standing Water

|                   |                   |                |
|-------------------|-------------------|----------------|
| Drawn by:<br>CO'S | Checked by:<br>AS | Date:<br>08/07 |
|-------------------|-------------------|----------------|

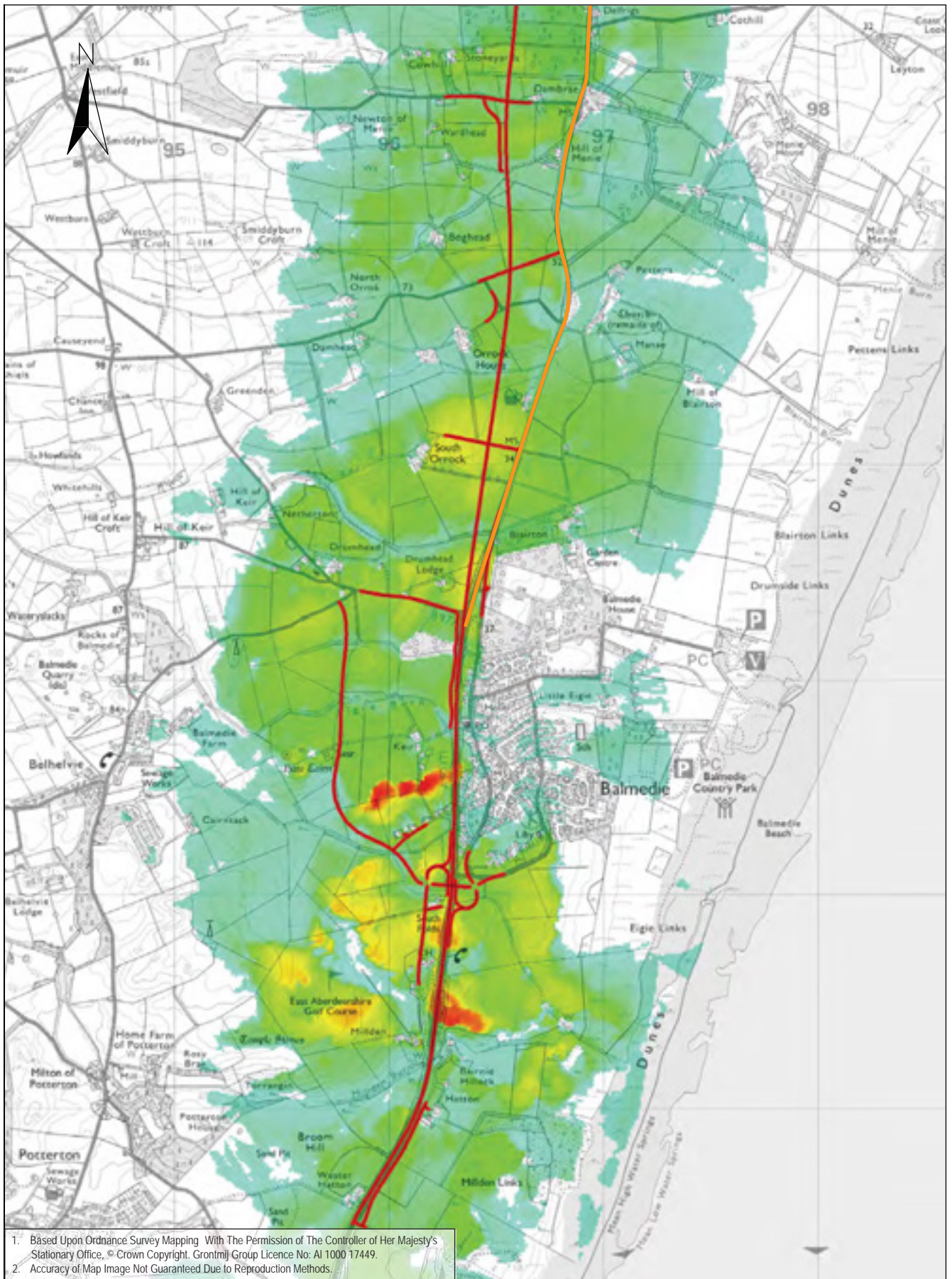
**A90 Dualling - Balmedie to Tippetry**

Phase I Habitat Map  
Figure 10.2c

Scale 1:10,000 at A4









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**Key:**

Extent to which new road and traffic will be visible, within 1 km:

-  Some of the new road or traffic visible
-  Much of the new road or traffic visible

-  New A90(T) and side roads
-  Existing A90

Drawn by: KM      Checked by: AJF      Date: 08/07

A90 Dualling - Balmedie to Tipperty

**Visual Envelope Map**  
Sheet 1 of 2

Figure 11.1a

Scale 1 : 25 000 at A4










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**Key:**

Extent to which new road and traffic will be visible, within 1 km:

-  Some of the new road or traffic visible
-  Much of the new road or traffic visible

-  New A90(T) and side roads
-  Existing A90

Drawn by: KM    Checked by: AJF    Date: 08/07

A90 Dualling - Balmedie to Tippetry

**Visual Envelope Map**  
Sheet 2 of 2

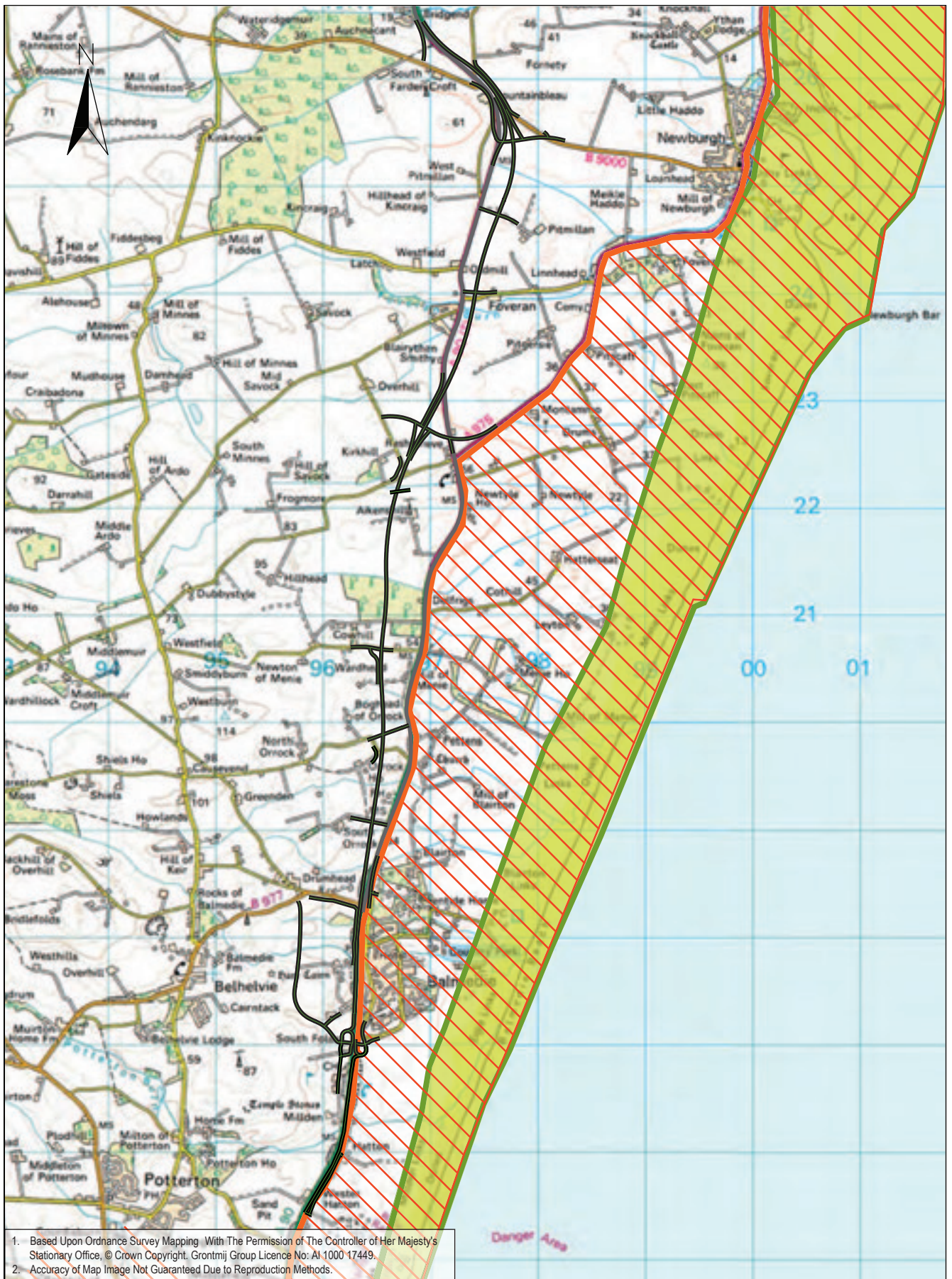
Figure 11.1b

Scale 1 : 25 000 at A4













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**Key:**

Designations in Aberdeenshire Local Plan:

-  Area of Landscape Significance
-  Undeveloped Coast
-  New A90(T) and side roads
-  Existing A90

Drawn by: KM    Checked by: AJF    Date: 08/07

A90 Dualling - Balmedie to Tippetry

**Local Landscape Designations**

Figure 11.2









Scale 1 : 50 000 at A4







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|   |  |
|---|--|
| <b>Key:</b>   |  |
|  | Landscape character zone boundaries            |
|  | Main ridges                                    |
|  | New A90(T) and side roads                      |
|  | Existing A90                                   |
|  | Formartine Lowlands - northern open zone       |
|  | Formartine Lowlands - southern rolling zone    |
|  | Formartine Links                               |
|  | Formartine Links - developed / developing zone |

Drawn by: KM    Checked by: AJF    Date: 08/07

**A90 Dualling - Balmedie to Tippiery**

**Landscape Character Zones**

Figure 11.3

Scale 1 : 50 000 at A4







View from Balmedie South to the South - East



View towards Balmedie South

|              |                 |             |
|--------------|-----------------|-------------|
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|--------------|-----------------|-------------|

A90 Dualling - Balmedie to Tippetry

**Landscape Character Sketches**  
Formartine Links  
Developed / Developing Zone



Figure 11.4

