

# Crubenmore to Kinraig project – welcome

As part of the A9 Dualling Programme, Transport Scotland has been taking forward route option assessment work for dualling the A9 between Crubenmore and Kinraig.

In November 2015, we held a public exhibition to seek feedback on the developing route options.

The purpose of this exhibition is to provide you with an overview of the outcome of the route option assessment work, and to present the preferred route option for the Crubenmore to Kinraig project.

We will also outline the work that will be undertaken as part of the Design Manual for Roads and Bridges (DMRB) Stage 3 Assessment process.

**Transport Scotland staff and its consultants from CFJV will be happy to assist you with any queries you may have in relation to the project.**



Spey Valley from Creag Dubh



Ruthven Barracks



TRANSPORT  
SCOTLAND  
CÒMHDHAIL ALBA



# Programme objectives

The Scottish Government has committed to dualling the A9 between Perth and Inverness by 2025. The A9 Dualling programme objectives are to:

- improve operational performance of the A9 by:
  - reducing journey times
  - improving journey time reliability
- improve safety for both Motorised and Non-Motorised Users (NMUs) by:
  - reducing accident severity
  - reducing driver stress
- facilitate active travel within the corridor
- improve integration with public transport facilities.



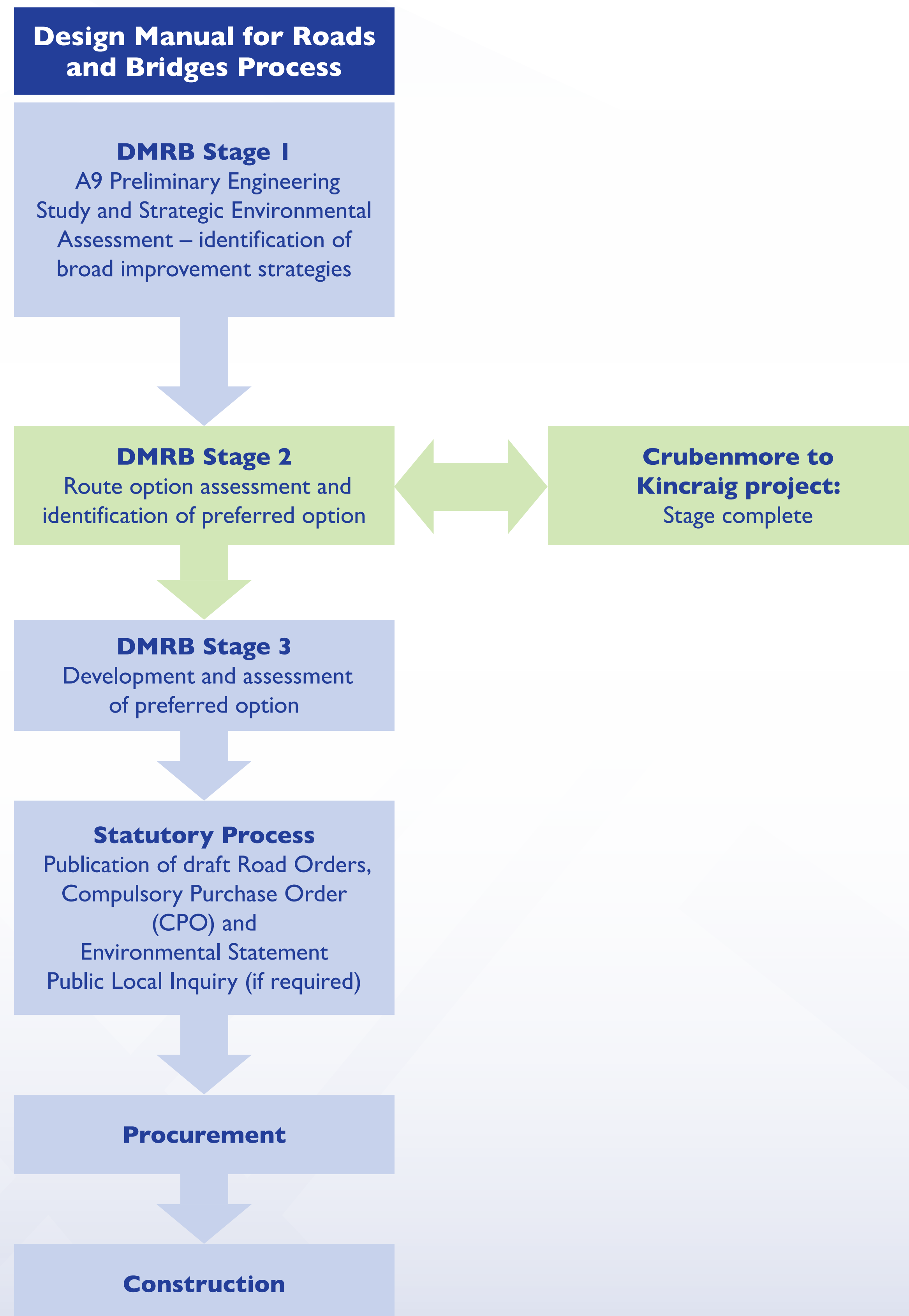
# Project development

We are following the normal trunk road scheme development process and progressing in accordance with guidance in the Design Manual for Roads and Bridges (DMRB). The three-stage assessment process covers engineering, environment, traffic and economic considerations.

Throughout this process, Transport Scotland consults with a diverse range of landowners, the public, stakeholders and interested parties including heritage, environmental and Non-Motorised Users (NMUs) such as pedestrians, equestrians and cyclists.

Following feedback from the November 2015 public exhibition, the route option assessment process (DMRB Stage 2 Assessment) for the Crubenmore to Kinraig project has been completed.

Today's exhibition shows the result of the route option assessment.





# Consultation

As part of the DMRB Stage 2 Assessment process, public consultation was carried out to inform the further development, refinement and assessment of the route and junction options.

Public exhibitions were held in Newtonmore Village Hall on Wednesday 18 November 2015 and in Talla Nan Ros in Kingussie on Thursday 19 November 2015. In total, 205 people attended over the two days and 22 feedback forms were completed, with 25 comments received after the event.

The comments received were mainly regarding the proposed junctions, local accesses and design.

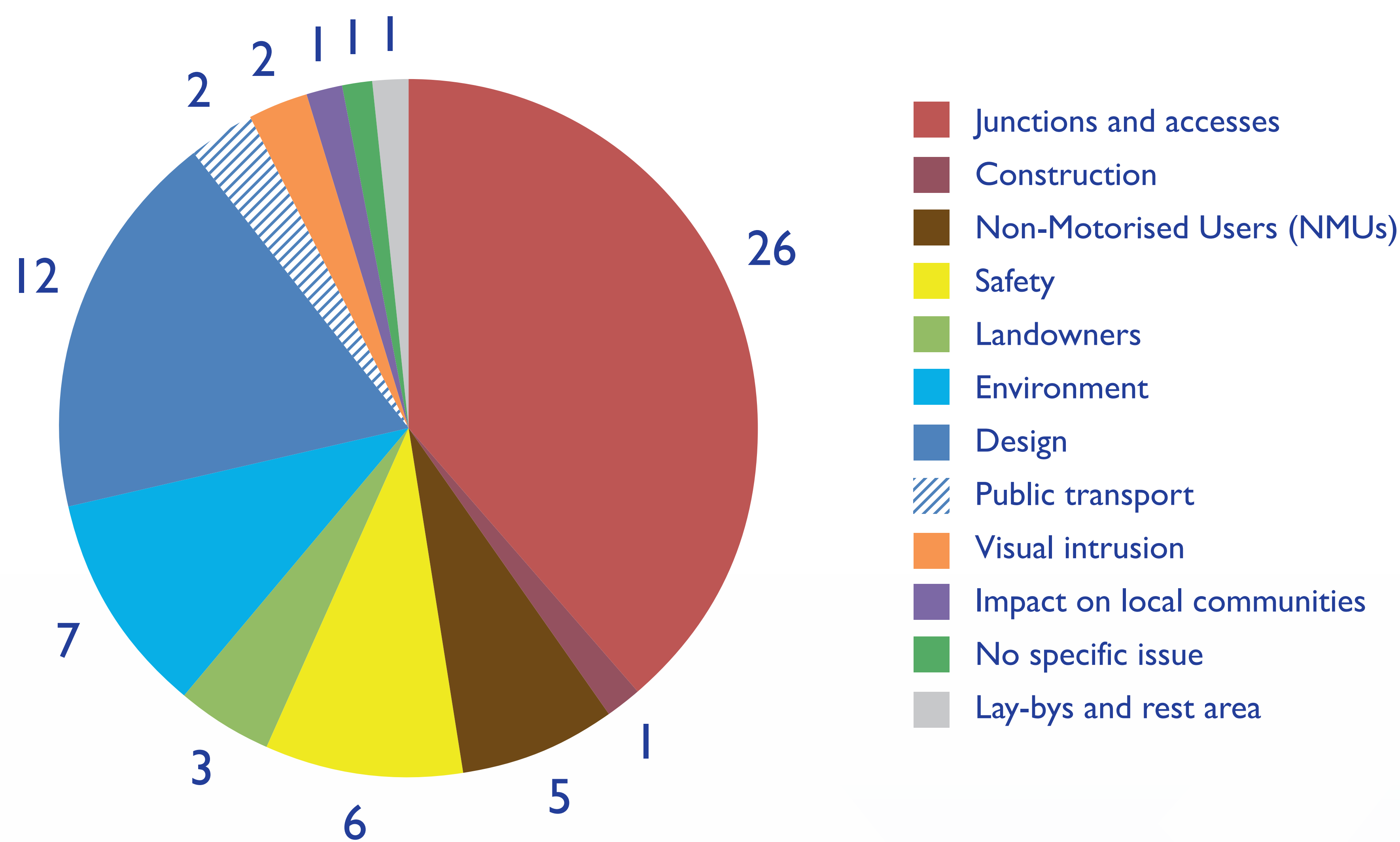
Each comment was reviewed and the key points were summarised into broad categories shown on the chart below. This is also documented in an exhibition report, which is available on the A9 Dualling website.

The feedback provided by members of the public will continue to inform the design and development of the Crubenmore to Kinraig project.

We will continue to have public engagement events to seek wider community feedback, one-to-one engagement with affected landowners and residents, as well as key stakeholders, as we progress through the Stage 3 Assessment.



Public exhibition, November 2015 – Kingussie



Summary of public exhibition comments



Public exhibition, November 2015 – Newtonmore



# Dual carriageway options

The Crubenmore to Kinraig project involves dualling approximately 16.5km of the current A9, from the existing dual carriageway at Crubenmore, to the Kinraig to Dalraddy dual carriageway section (currently under construction).

The project was split into five sections to assist the design work on the dual carriageway options. The sections are shown on the adjacent map and were chosen based on local constraints such as topography, environmental features and the proximity of the Highland Mainline Railway.

**Section 1 is 0.85km in length:** 1 option (a)

**Section 2 is 3.82km in length:** 2 options (a) and (b)

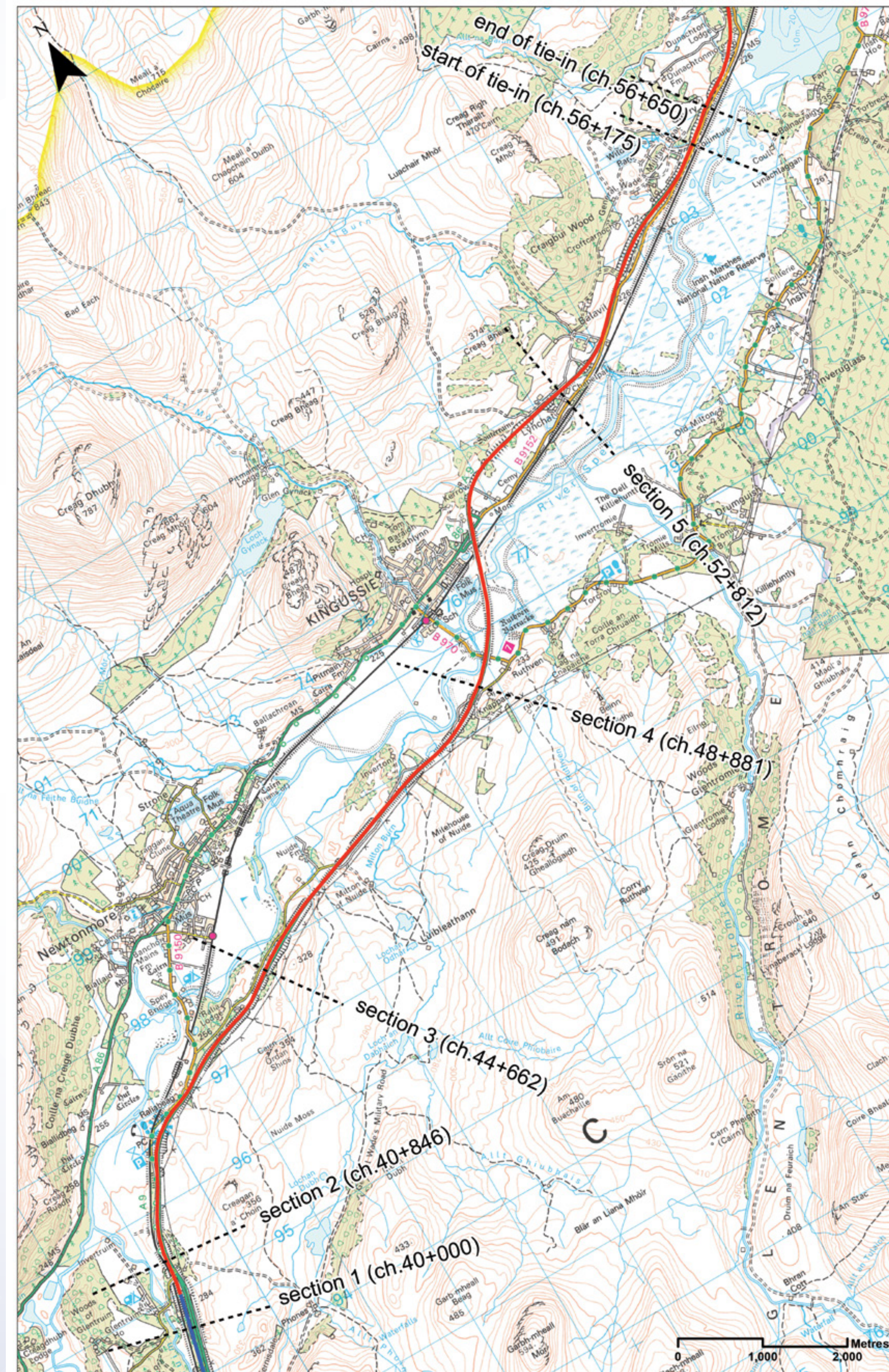
**Section 3 is 4.22km in length:** 1 option (a)

**Section 4 is 3.93km in length:** 4 options (a), (b), (e) and (f)

**Section 5 is 3.68km in length:** 1 option (a)

The assessment of the options in each section considered known local constraints and feedback received from public consultations. The line of the dual carriageway for the overall project was identified by joining together the preferred options for each section.

Junction options serving the towns of Newtonmore and Kingussie have also been assessed and a preferred junction selected at each location.



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Crubenmore to Kinraig





# Preferred route

On the basis of the route options assessment process, section options **1a**, **2a**, **3a**, **4b** and **5a** will be taken forward as the combined preferred route option.

The preferred route provides online widening of the carriageway to the east, from the start of the project to Knappach underpass at the end of section 3. The alignment then moves offline to the east, through section 4 as it crosses the River Spey and Insh Marshes, before it changes to online carriageway widening to the west for the remainder of the route. It then connects with the Kincaig to Dalraddy dual carriageway, currently under construction.

The following exhibition panels present the preferred option within each section.

Throughout the design and development of the preferred option (DMRB Stage 3 Assessment process), the following important elements will be given further consideration:

- a strategy will be developed and incorporated into the design to provide access to land and property next to the route, and to address access requirements for Non-Motorised Users (NMUs) such as pedestrians and cyclists
- the route alignment will be further developed to seek to reduce impact on land and properties
- the alignment will be further developed to help construction and reduce the impact on road users during construction.



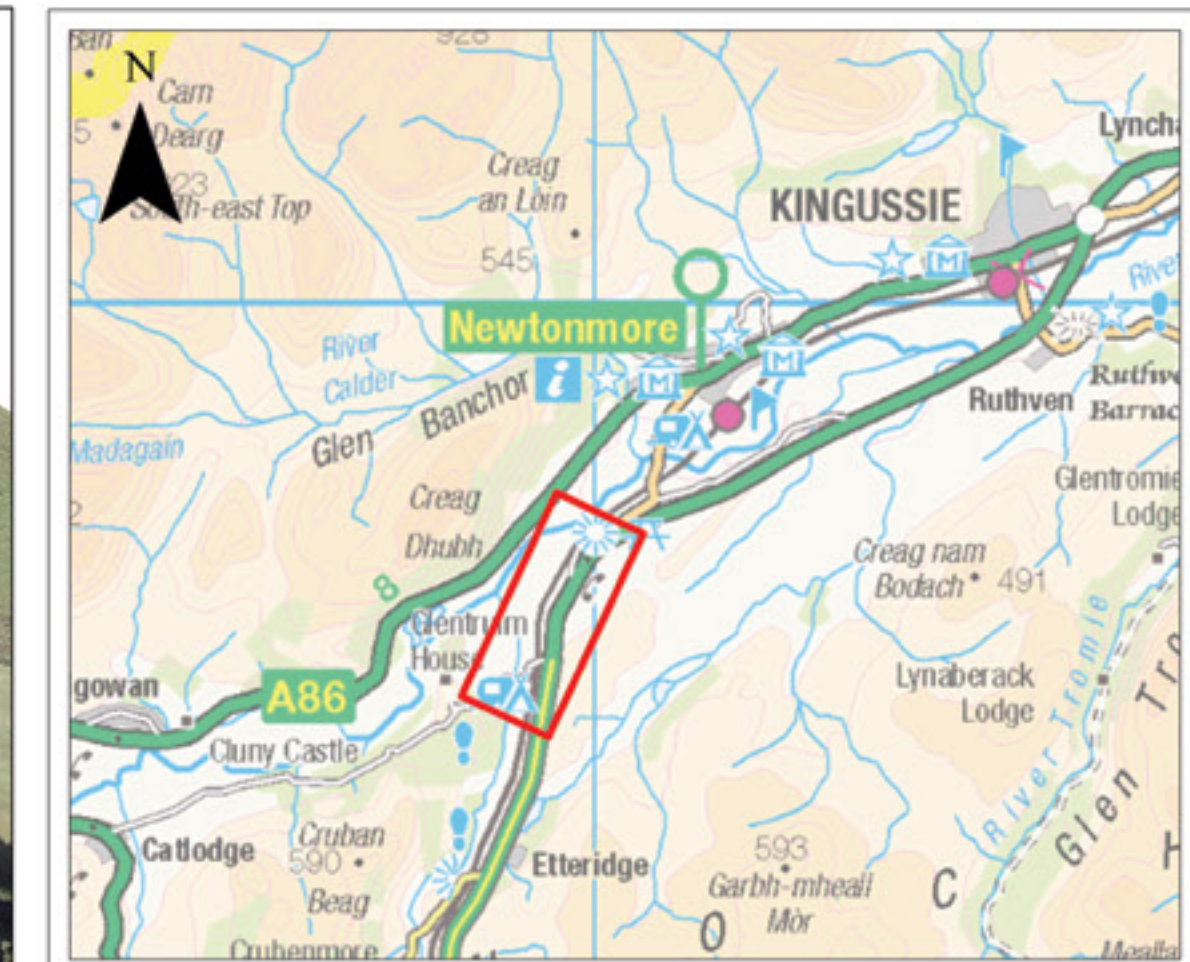
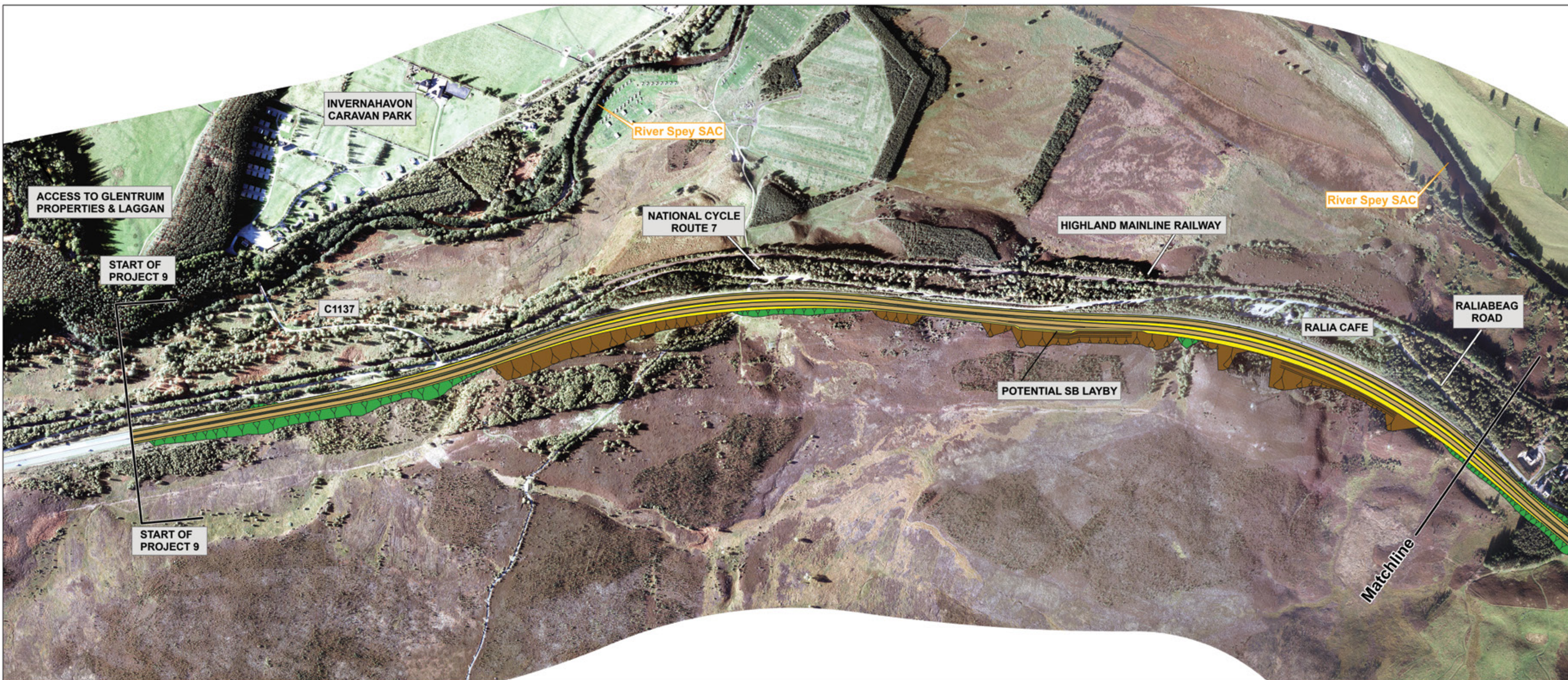
River Spey Crossing and Ruthven Barracks



A9 looking north at Braes of Nuide



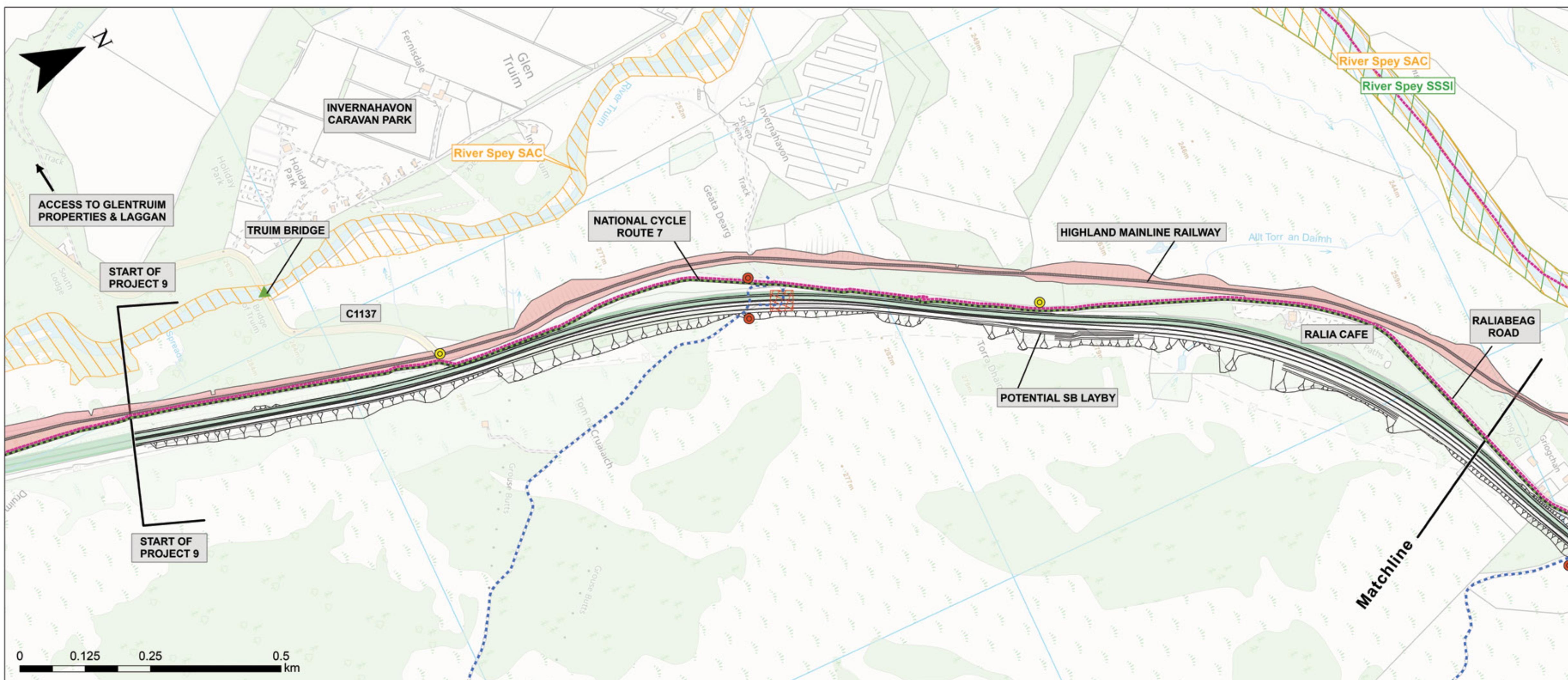




**Legend**

- Detailed Alignment
- Earthworks Embankment
- Earthworks Cutting
- Central Reserve / Verge
- Carriageway
- Existing**
- Existing Local Roads
- Existing Private Access
- Sustrans NCN7 Route
- Informal NMU Routes
- CNPA Core Path
- Highland Mainline Railway
- Railway
- Existing Bridges
- Cultural Heritage Assets**
- ▲ Historic Environment Record (Point)
- Environmental Designations**
- Special Area of Conservation (SAC)
- Site of Special Scientific Interest (SSSI)

Please Note:  
 The preferred option shown on this drawing is indicative and will be developed further during the next stage of design development. This will include the preferred option alignment, the layout of the junctions, lay-bys, side roads and private means of access. Environmental mitigation will also be added to the scheme design.



**ch2m** **FAIRHURST**

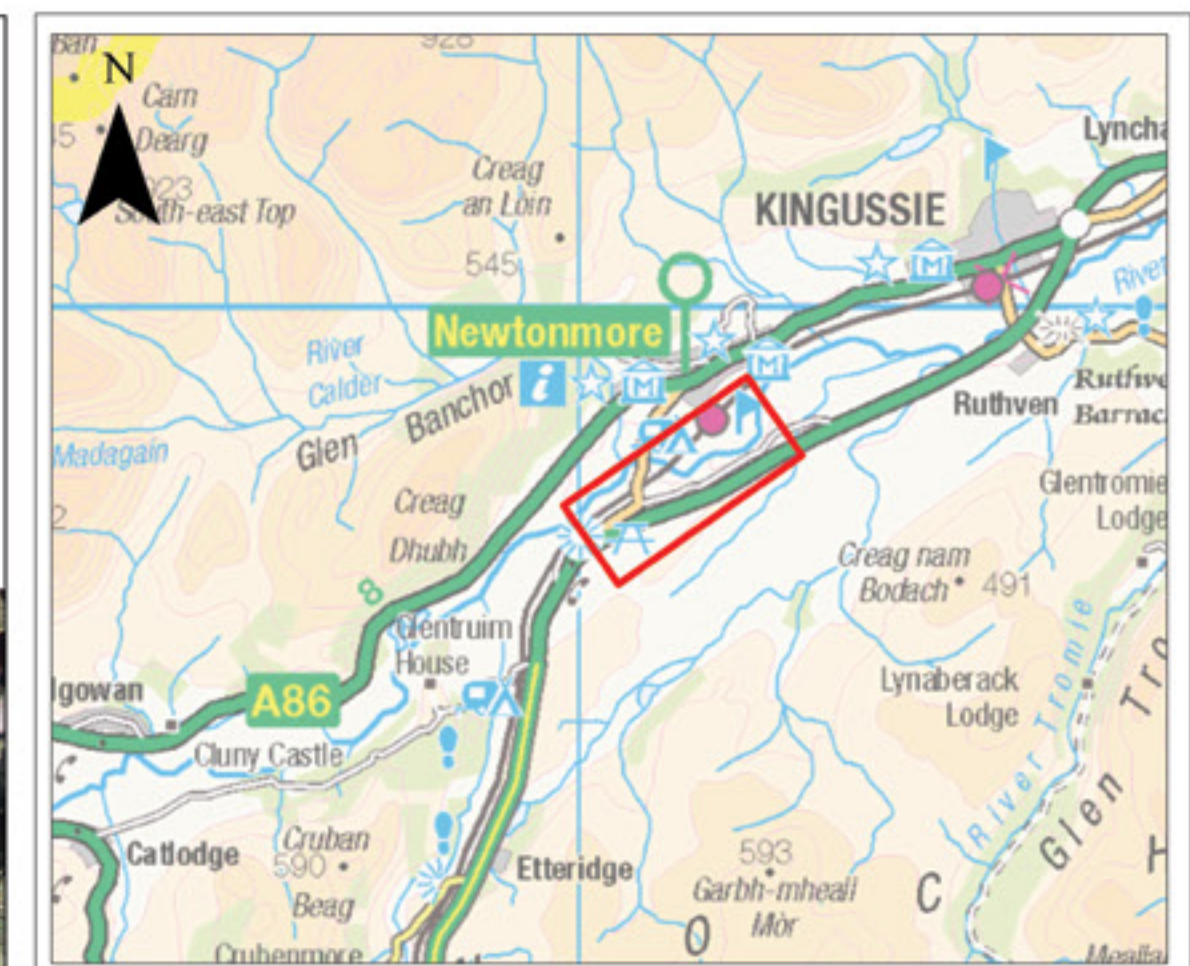
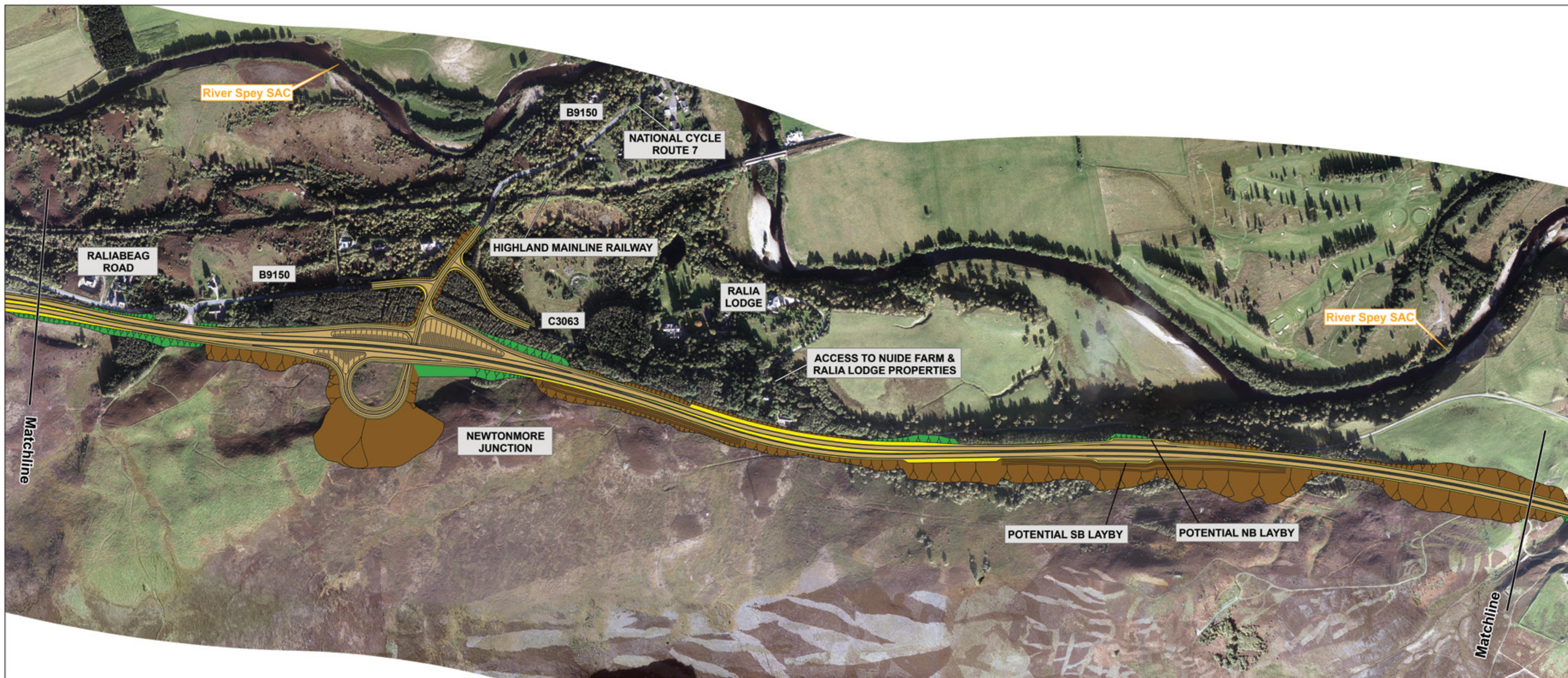


**PUBLIC EXHIBITION  
 CRUBENMORE TO KINCAIG**

**PREFERRED OPTION  
 SHEET 1 OF 6**

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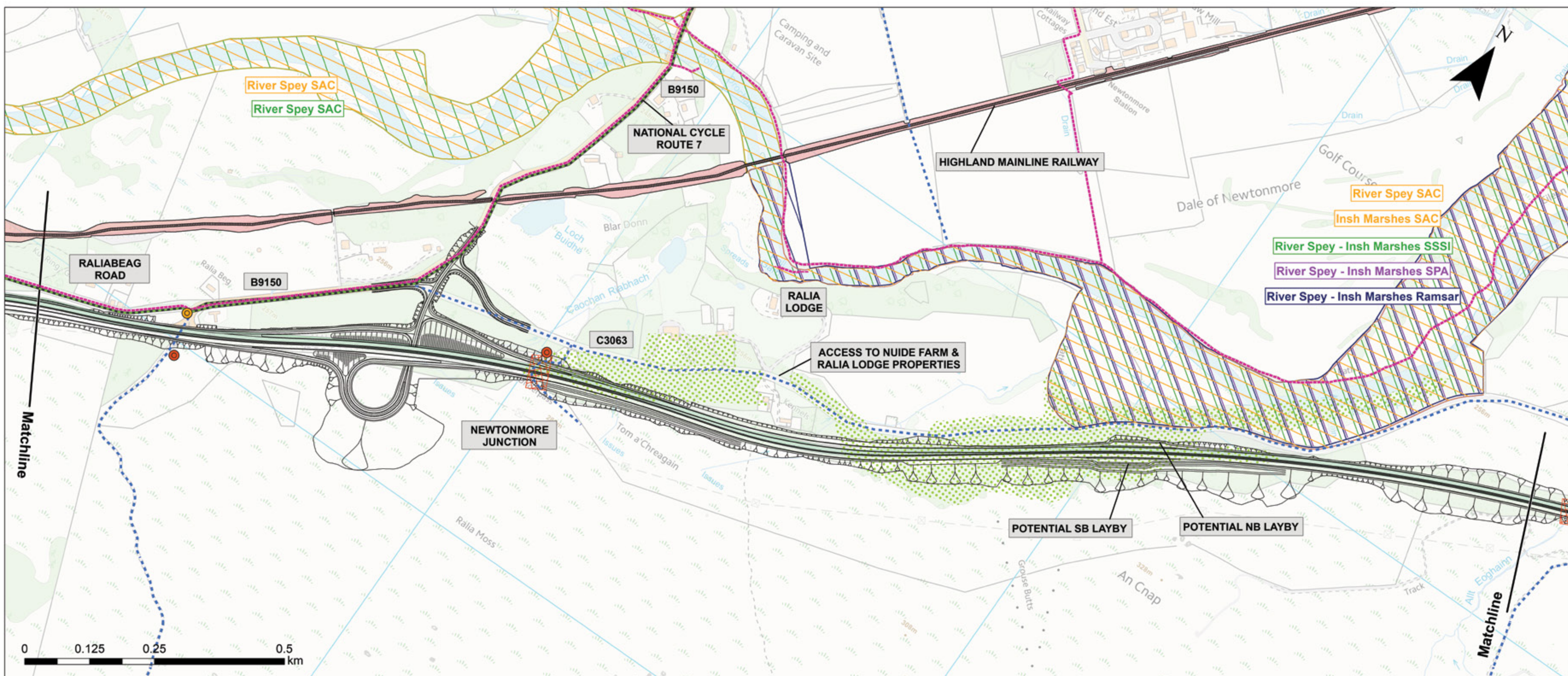




**Legend**

- Detailed Alignment
  - Earthworks Embankment
  - Earthworks Cutting
  - Central Reserve / Verge
  - Carriageway
- Existing**
- Existing Newtonmore / Kingussie Junctions
  - Existing Private Access
  - Sustrans NCN7 Route
  - Informal NMU Routes
  - CNPA Core Path
  - Highland Mainline Railway
  - Railway Boundaries
  - Existing Bridges
- Environmental Designations**
- Special Area of Conservation (SAC)
  - Special Protection Area (SPA)
  - Site of Special Scientific Interest (SSSI)
  - Ramsar
  - Ancient Woodland Inventory (AWI) Sites 2a

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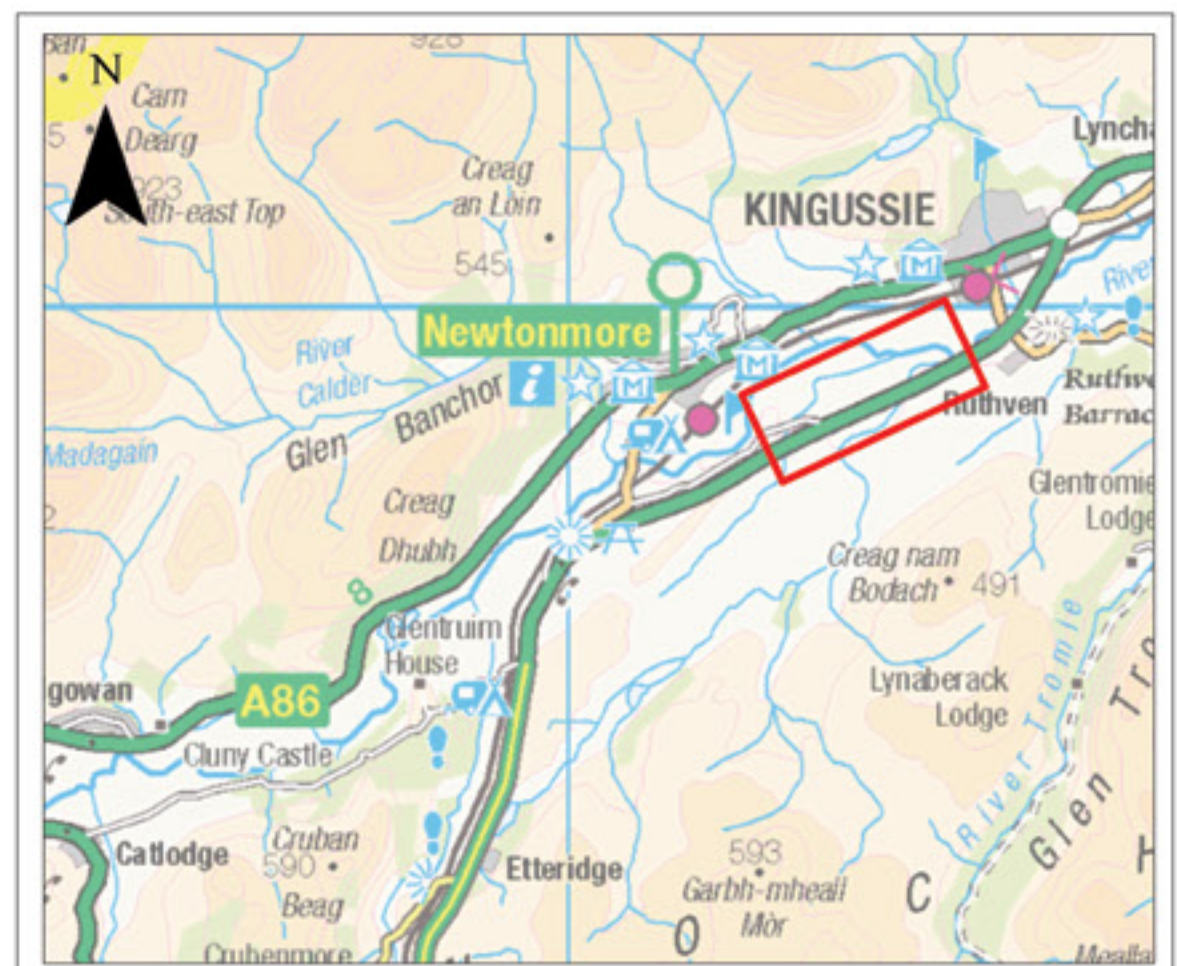
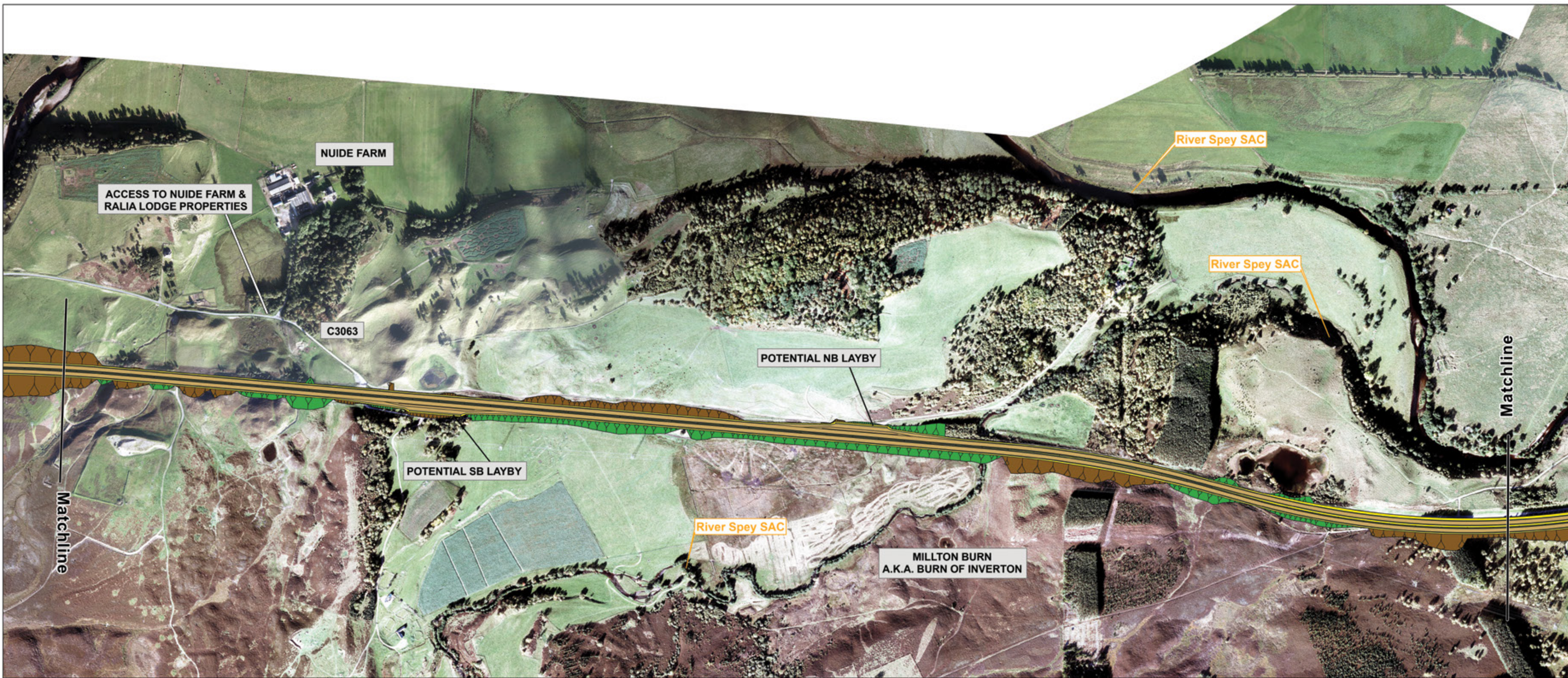
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**PUBLIC EXHIBITION  
 CRUBENMORE TO KINCRAIG**

**PREFERRED OPTION  
 SHEET 2 OF 6**

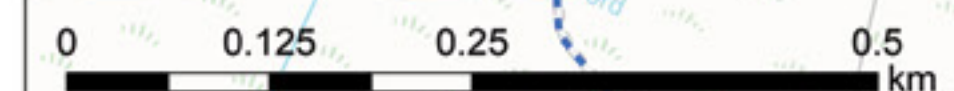
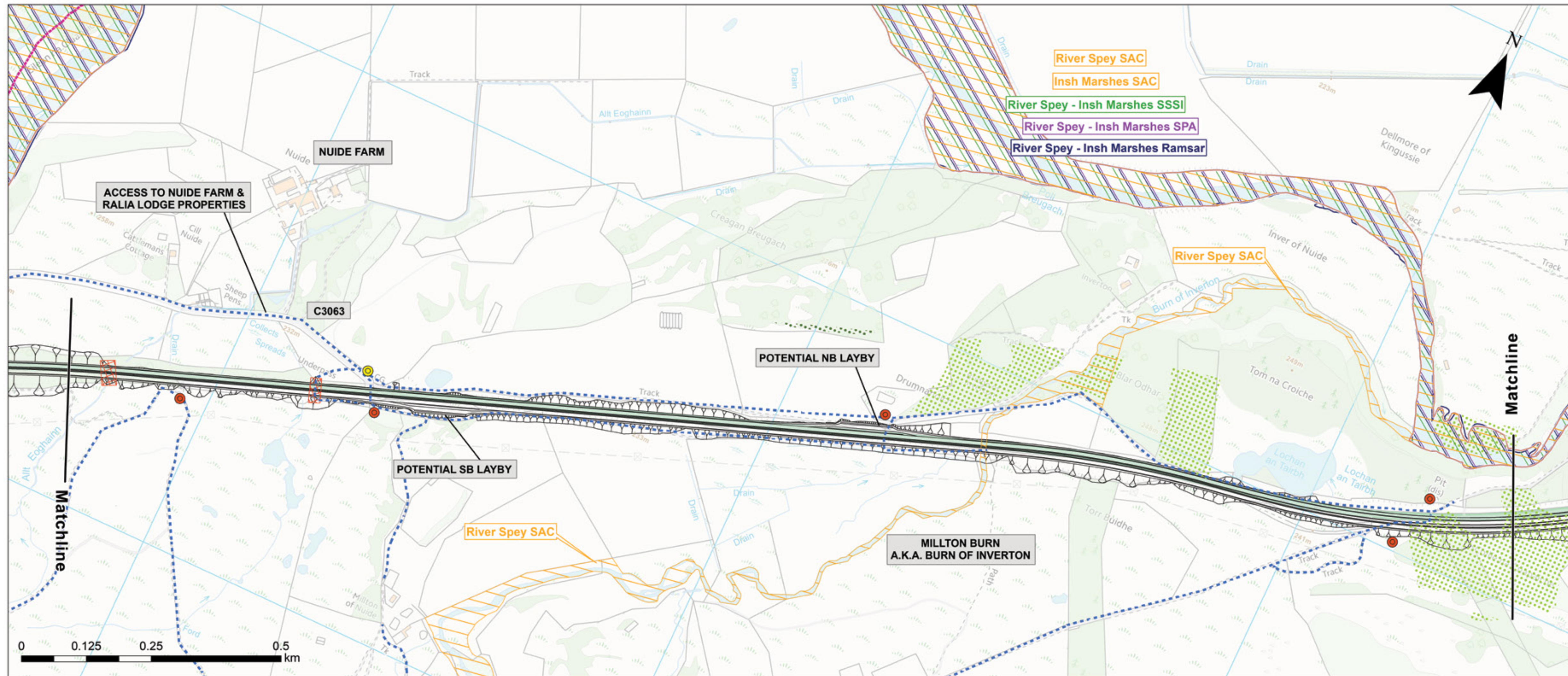




**Legend**

- Detailed Alignment
- Earthworks Embankment
- Earthworks Cutting
- Central Reserve / Verge
- Carriageway
- Existing**
- Existing Local Roads
- Existing Private Access
- Informal NMU Routes
- CNPA Core Path
- Existing Bridges
- Environmental Designations**
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- Ramsar
- Ancient Woodland Inventory (AWI) Sites 1a
- Ancient Woodland Inventory (AWI) Sites 2a

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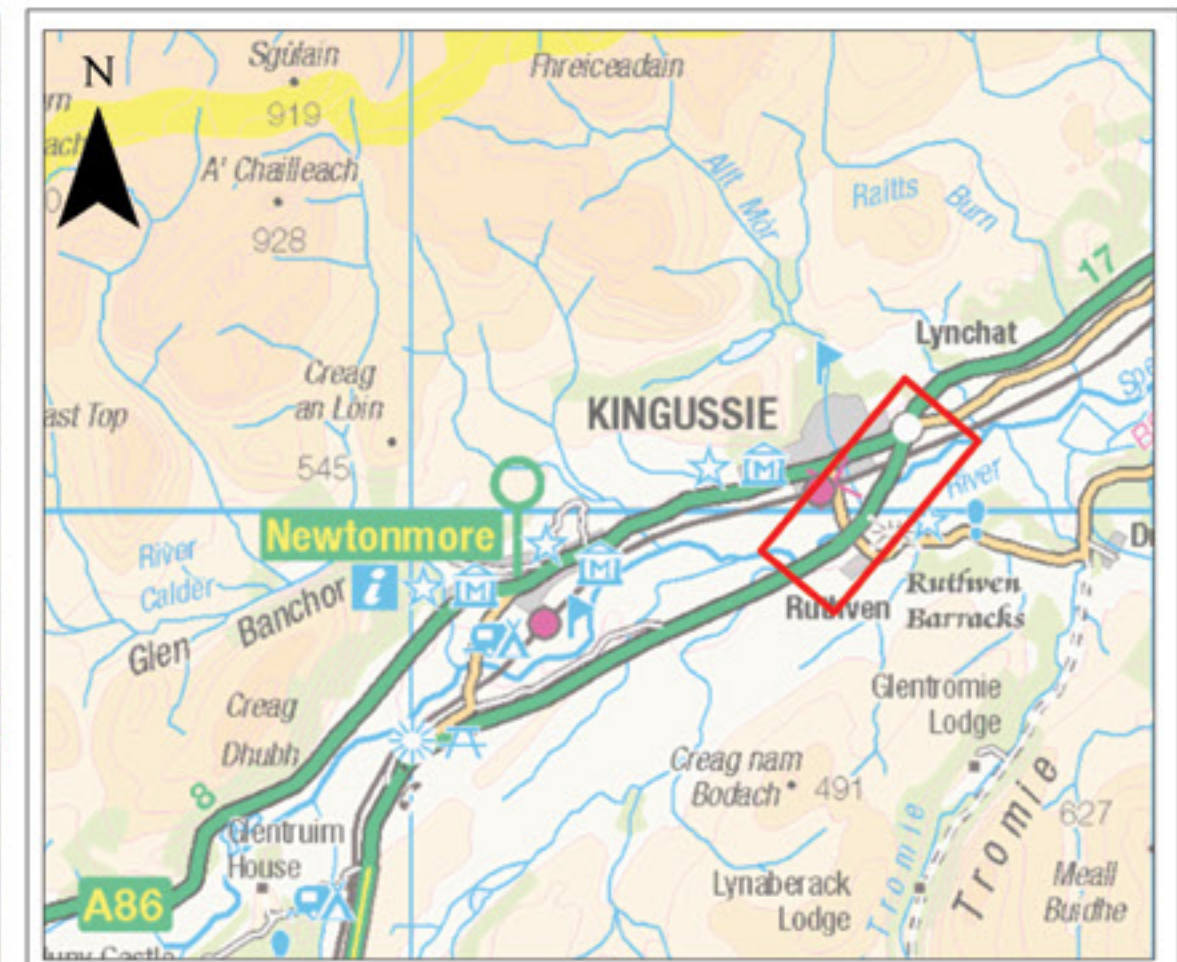
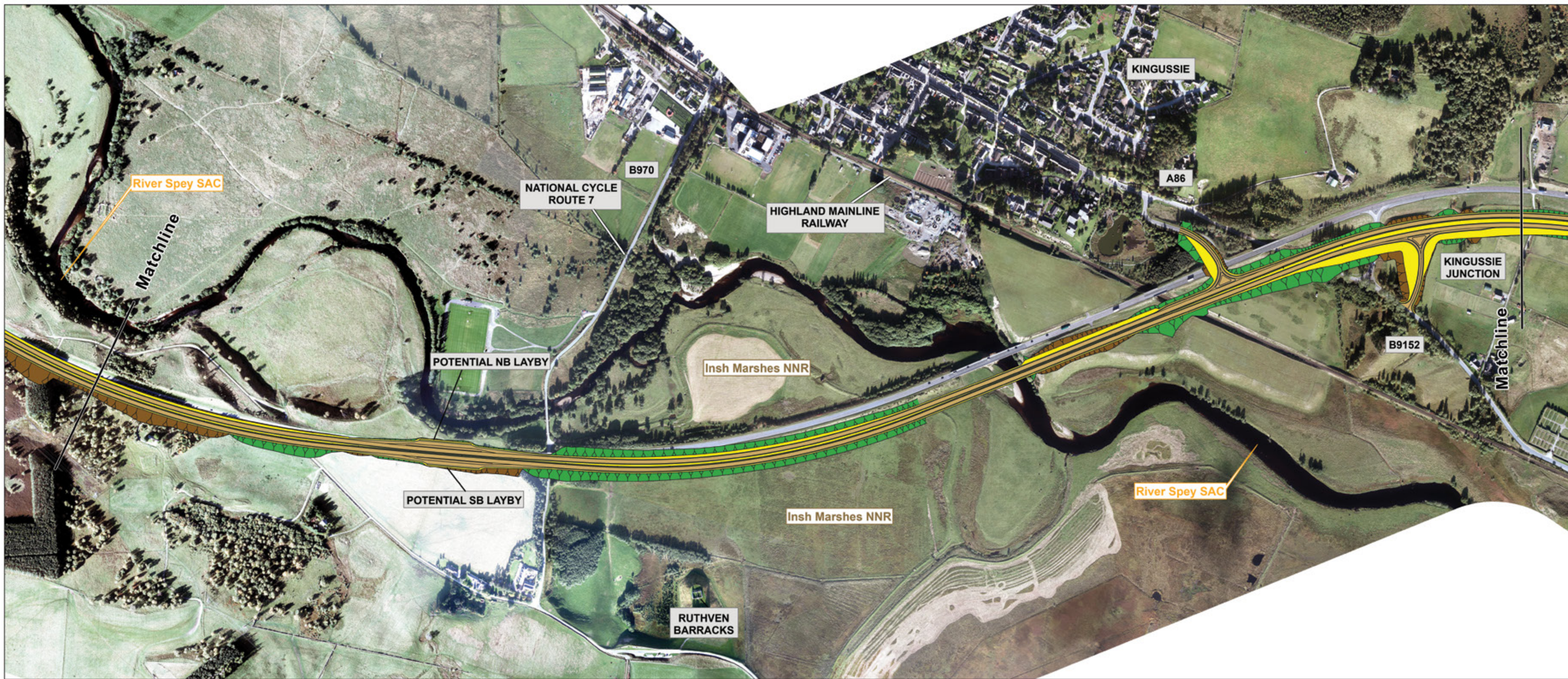


**PUBLIC EXHIBITION  
 CRUBENMORE TO KINCRAIG**

**PREFERRED OPTION  
 SHEET 3 OF 6**

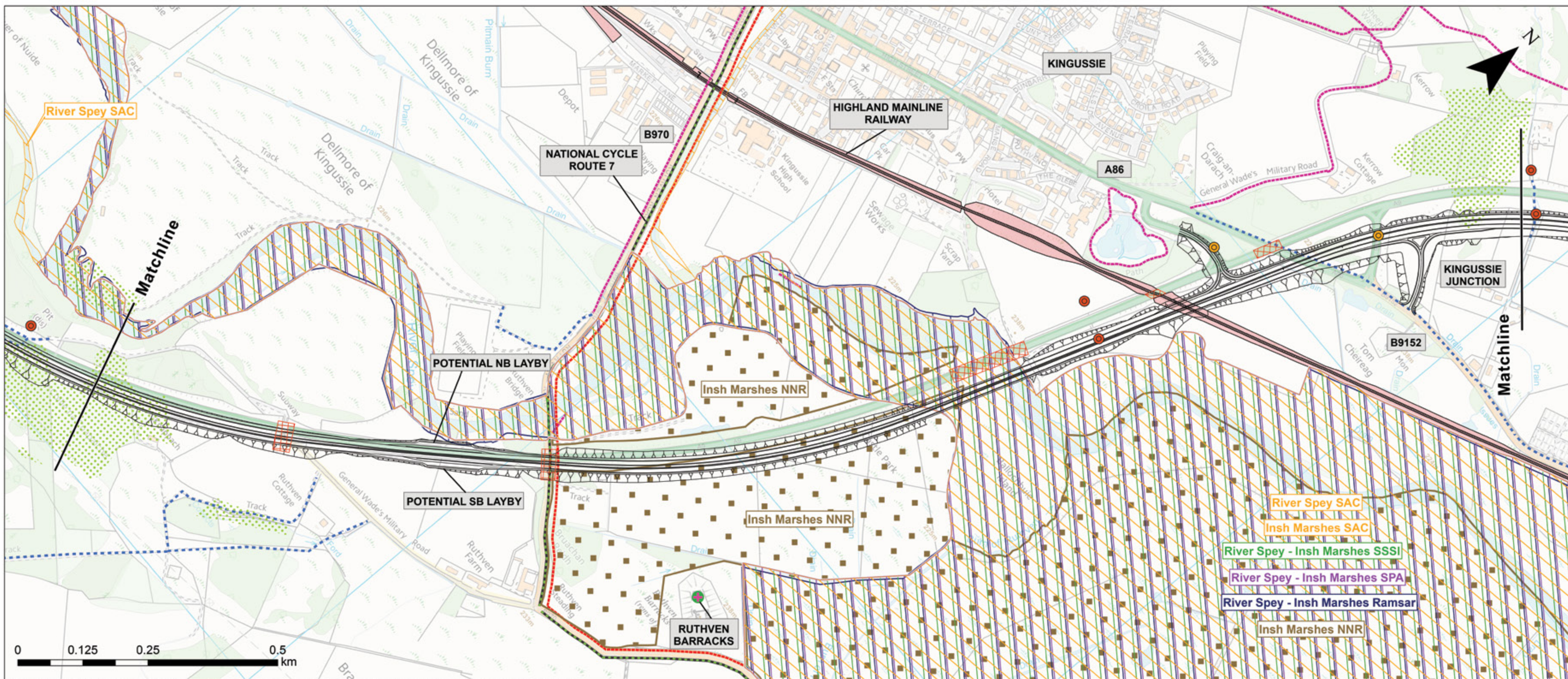
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**Legend**

- Detailed Alignment
- Earthworks Embankment
- Earthworks Cutting
- Central Reserve / Verge
- Carriageway
- Existing**
- Existing Newtonmore / Kingussie Junctions
- Existing Private Access
- Sustrans NCN7 Route
- Informal NMU Routes
- East Highland Way (National Route)
- CNPA Core Path
- Highland Mainline Railway
- Railway Boundaries
- Existing Bridges
- Cultural Heritage Features**
- Scheduled Monument / A Listed Building
- Environmental Designations**
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- Ramsar
- National Nature Reserve (NNR)
- Ancient Woodland Inventory (AWI) Sites 2a

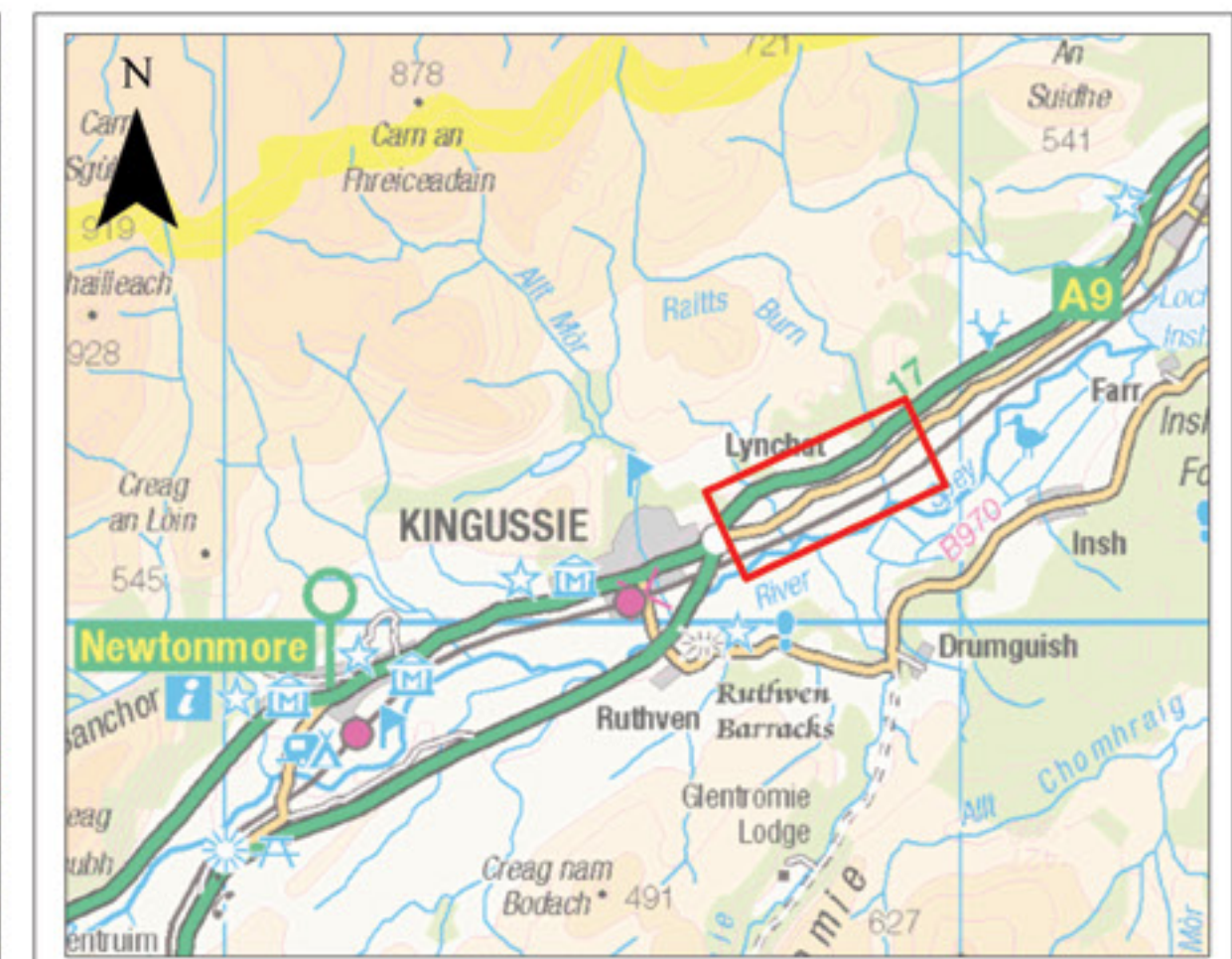
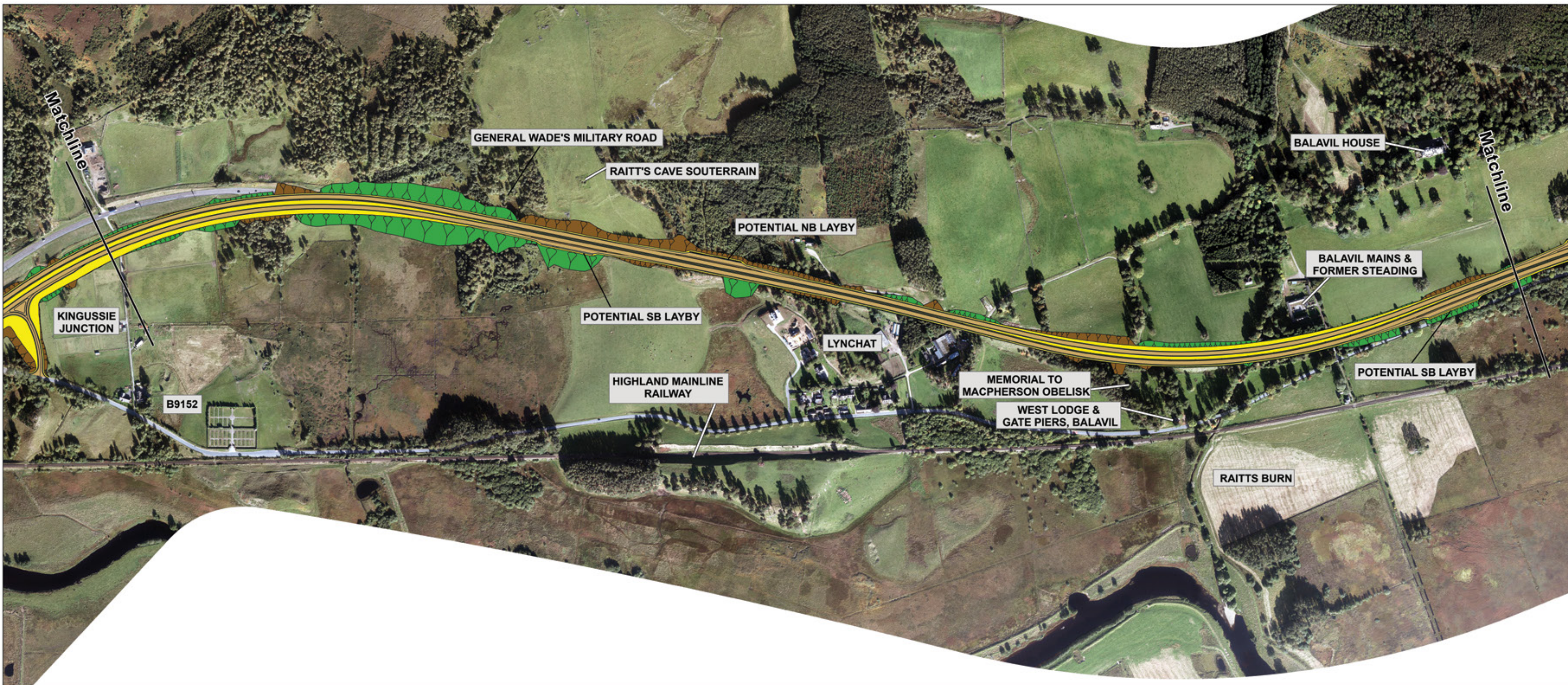


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**PUBLIC EXHIBITION  
CRUBENMORE TO KINCRAIG  
PREFERRED OPTION  
SHEET 4 OF 6**





### Legend

- Detailed Alignment
- Earthworks Embankment
- Earthworks Cutting
- Central Reserve / Verge
- Carriageway
- Existing**
- Existing Private Access
- Informal NMU Routes
- CNPA Core Path
- Highland Mainline Railway
- Railway Boundaries
- Existing Bridges

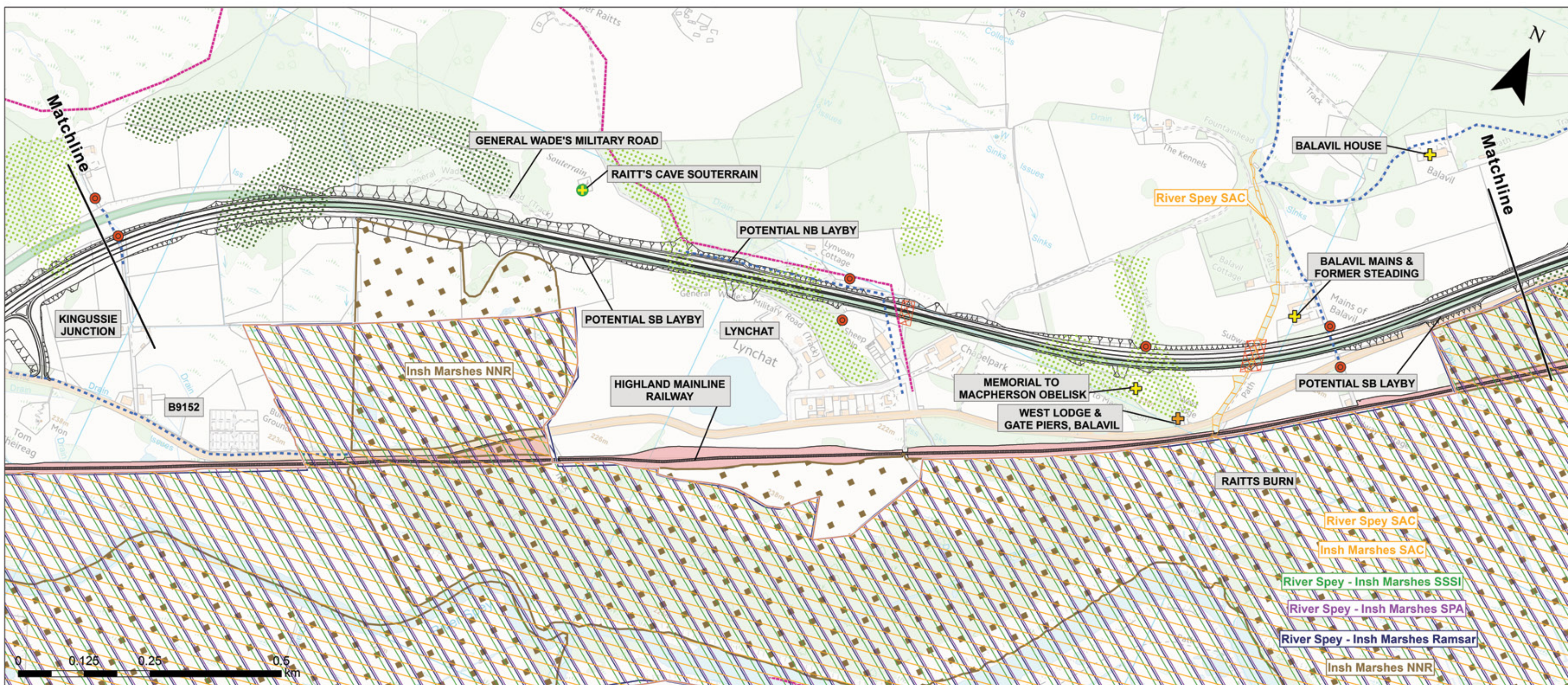
### Cultural Heritage Features

- C Listed Building
- Scheduled Monument
- B Listed Building

### Environmental Designations

- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
- Ramsar
- National Nature Reserve (NNR)
- Ancient Woodland Inventory (AWI) Sites 1a
- Ancient Woodland Inventory (AWI) Sites 2a

**Please Note:**  
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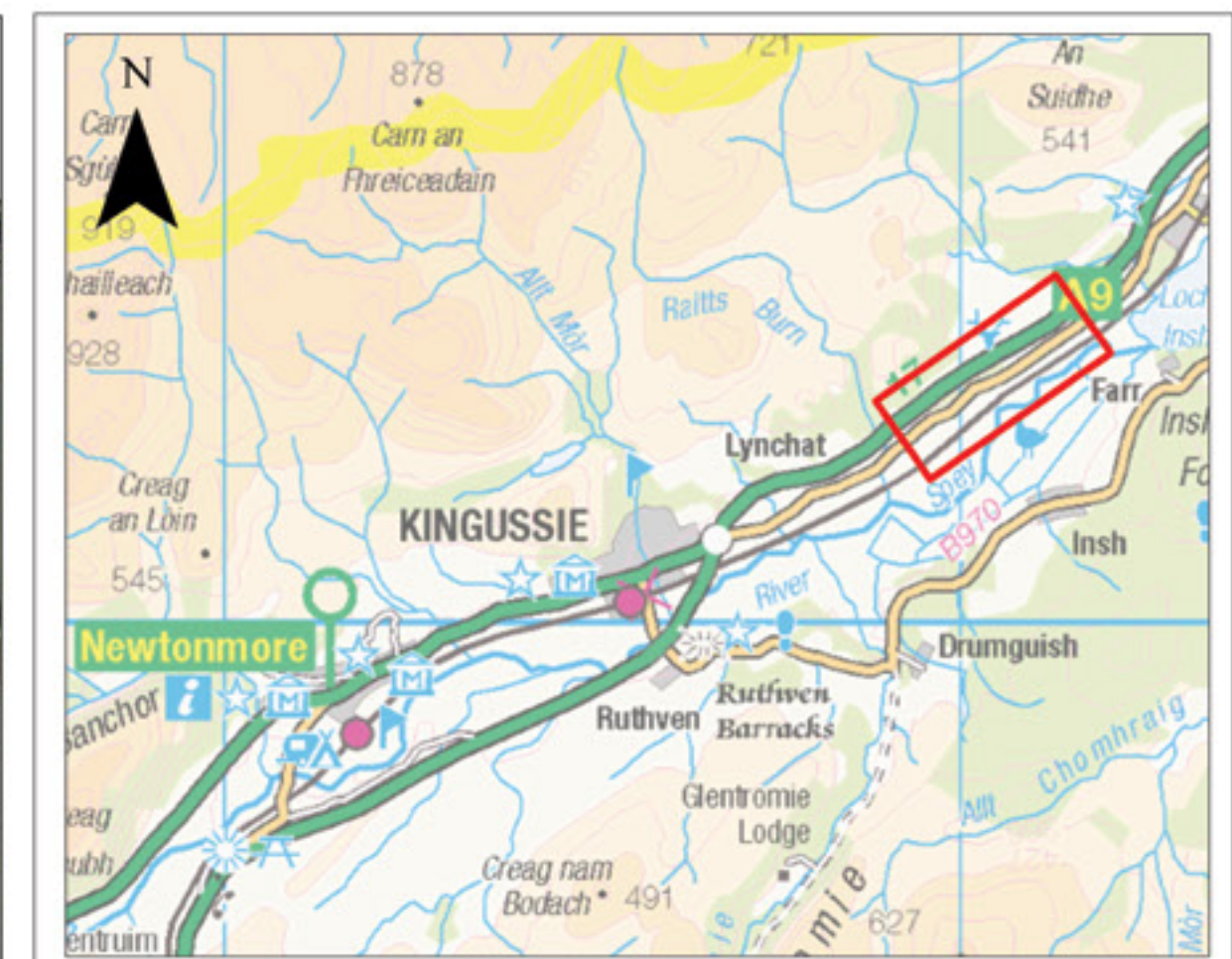
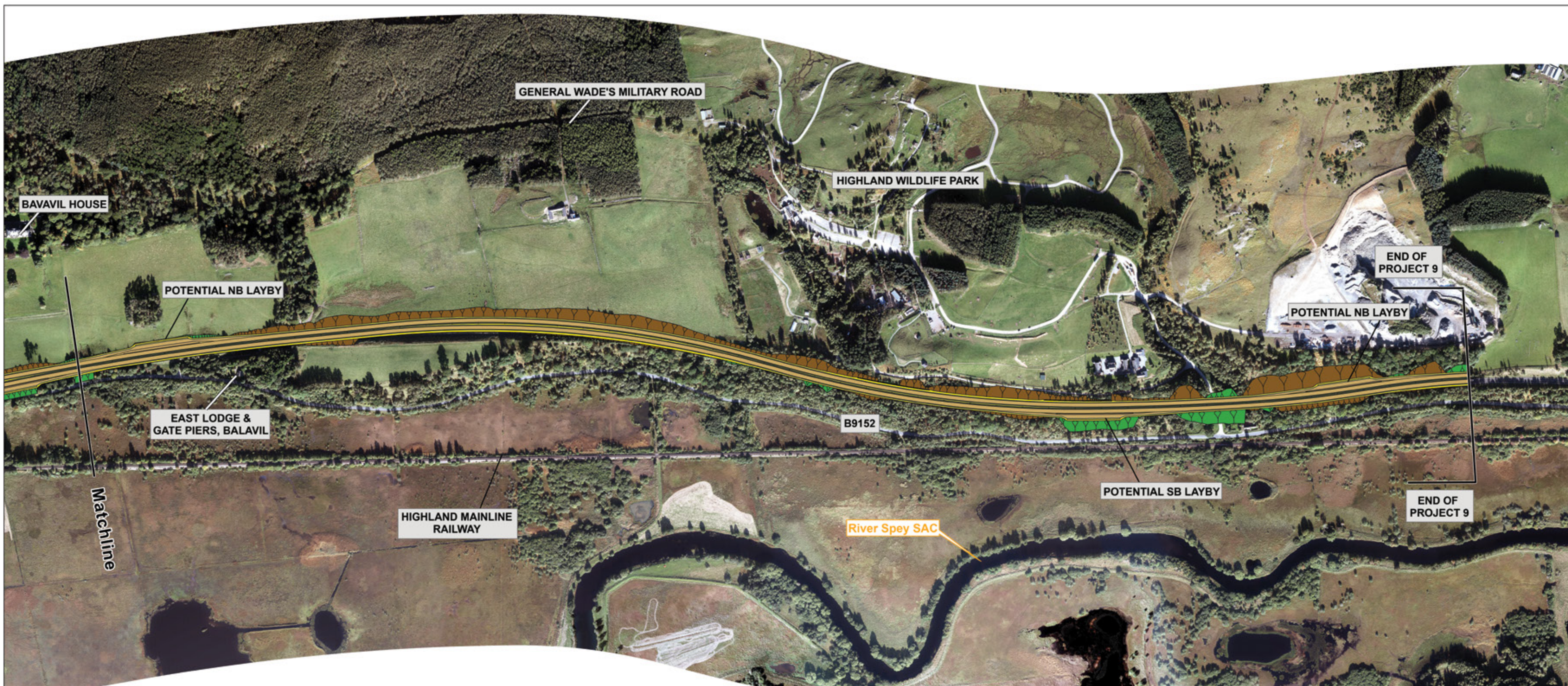
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**PUBLIC EXHIBITION  
CRUBENMORE TO KINCRAIG**

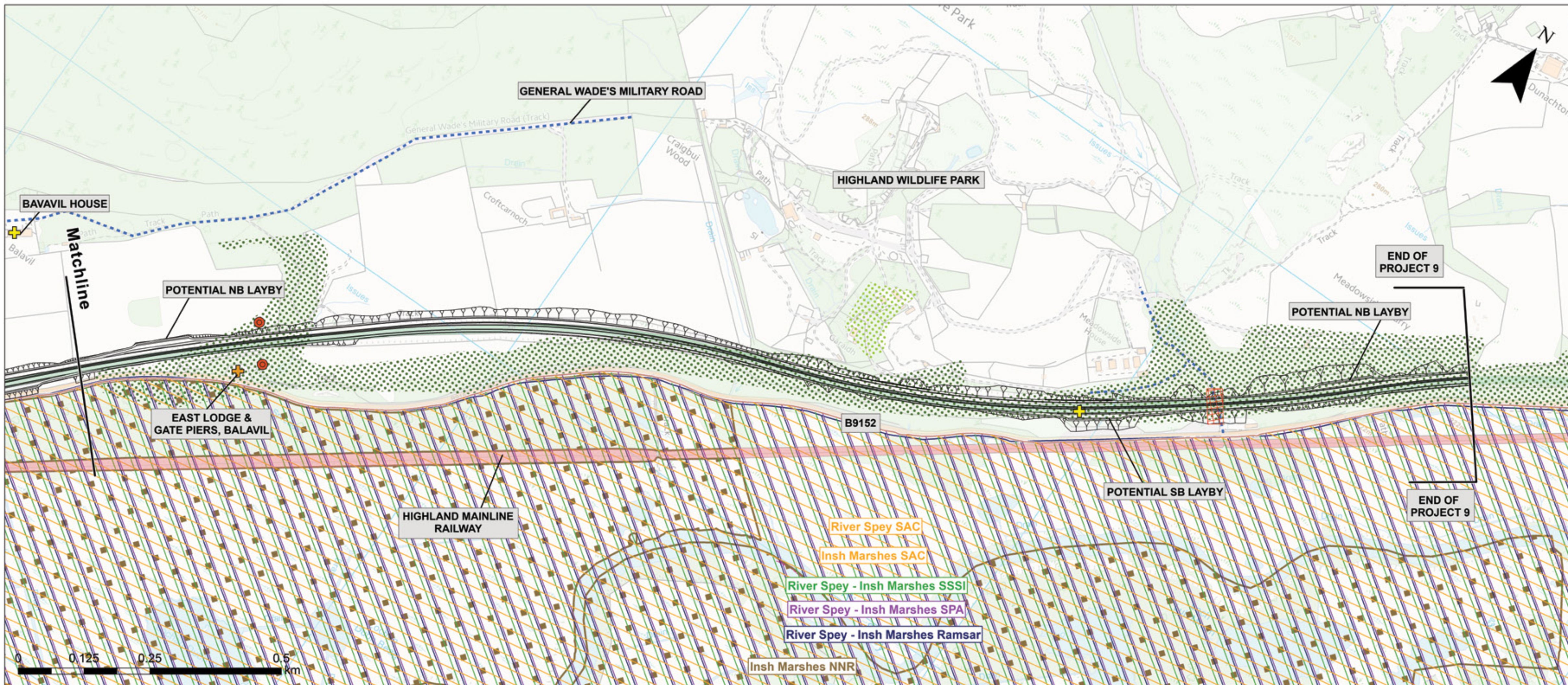
**PREFERRED OPTION  
SHEET 5 OF 6**





- ### Legend
- Detailed Alignment
  - Earthworks Embankment
  - Earthworks Cutting
  - Central Reserve / Verge
  - Carriageway
- Existing**
- Existing Private Access
  - Informal NMU Routes
  - CNPA Core Path
  - Highland Mainline Railway
  - Railway Boundaries
  - Existing Bridges
- Cultural Heritage Features**
- ⊕ C Listed Building
  - ⊕ Scheduled Monument
  - ⊕ B Listed Building
- Environmental Designations**
- Special Area of Conservation (SAC)
  - Special Protection Area (SPA)
  - Site of Special Scientific Interest (SSSI)
  - Ramsar
  - National Nature Reserve (NNR)
  - Ancient Woodland Inventory (AWI) Sites 1a
  - Ancient Woodland Inventory (AWI) Sites 2a

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**PUBLIC EXHIBITION  
 CRUBENMORE TO KINCRAIG**

**PREFERRED OPTION  
 SHEET 6 OF 6**



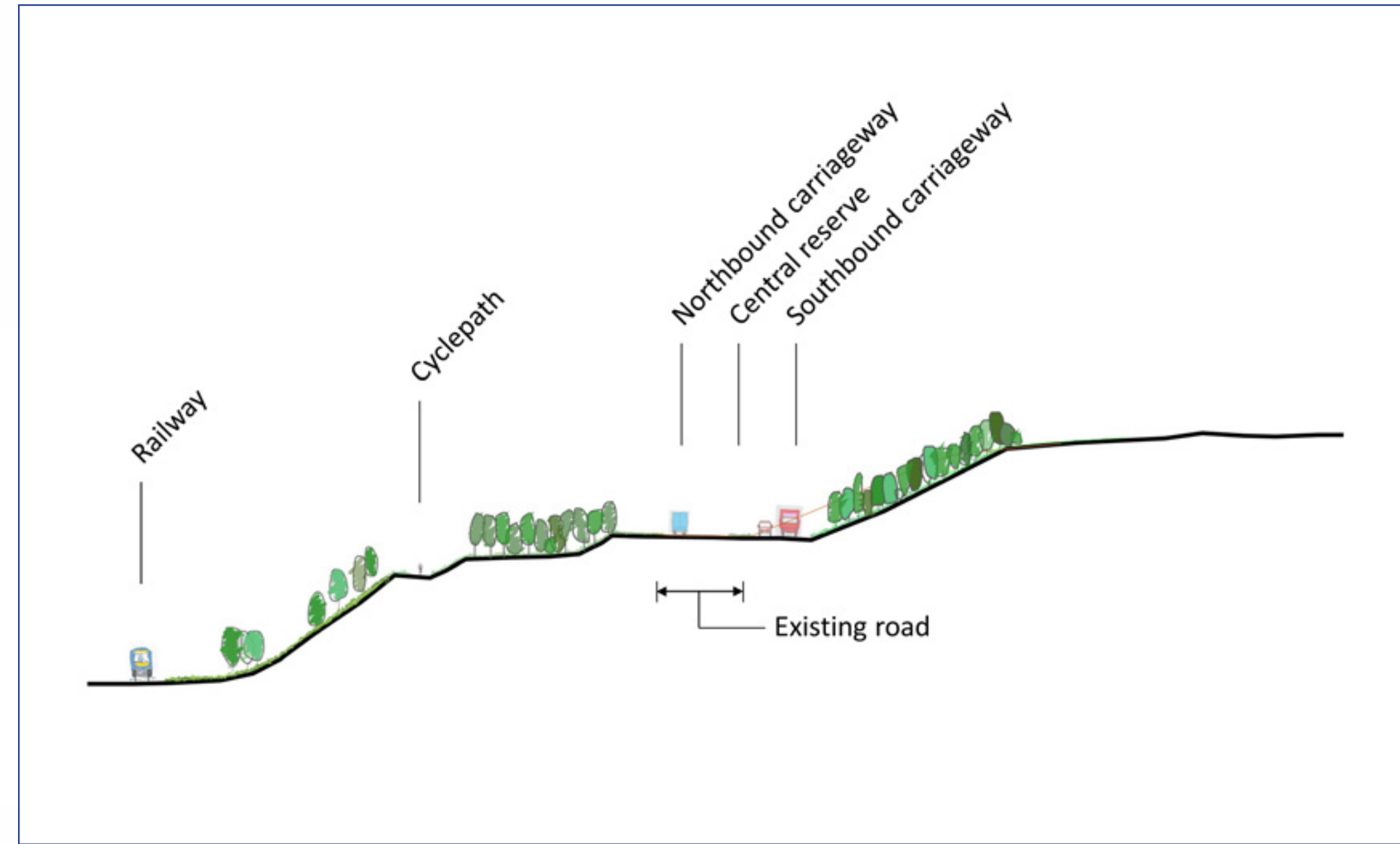
# Stage 2 preferred option – Section 1 Option (a)



This section is 0.85km long, from the tie-in with the existing Crubenmore dual carriageway and stretching between the existing Glen Truim access and Ralia Café and rest area.



Visualisation of Option 1a looking north



Typical cross-section schematic of Option 1a

There is limited opportunity to widen to the west of the existing A9 due to the proximity of the Highland Mainline Railway, National Cycle Network (Route 7) and the River Truim and its associated flood plain.

Therefore, a single option was considered for the new dual carriageway which involves widening to the east of the existing A9.

**Detailed plans of this option are available for viewing today.**





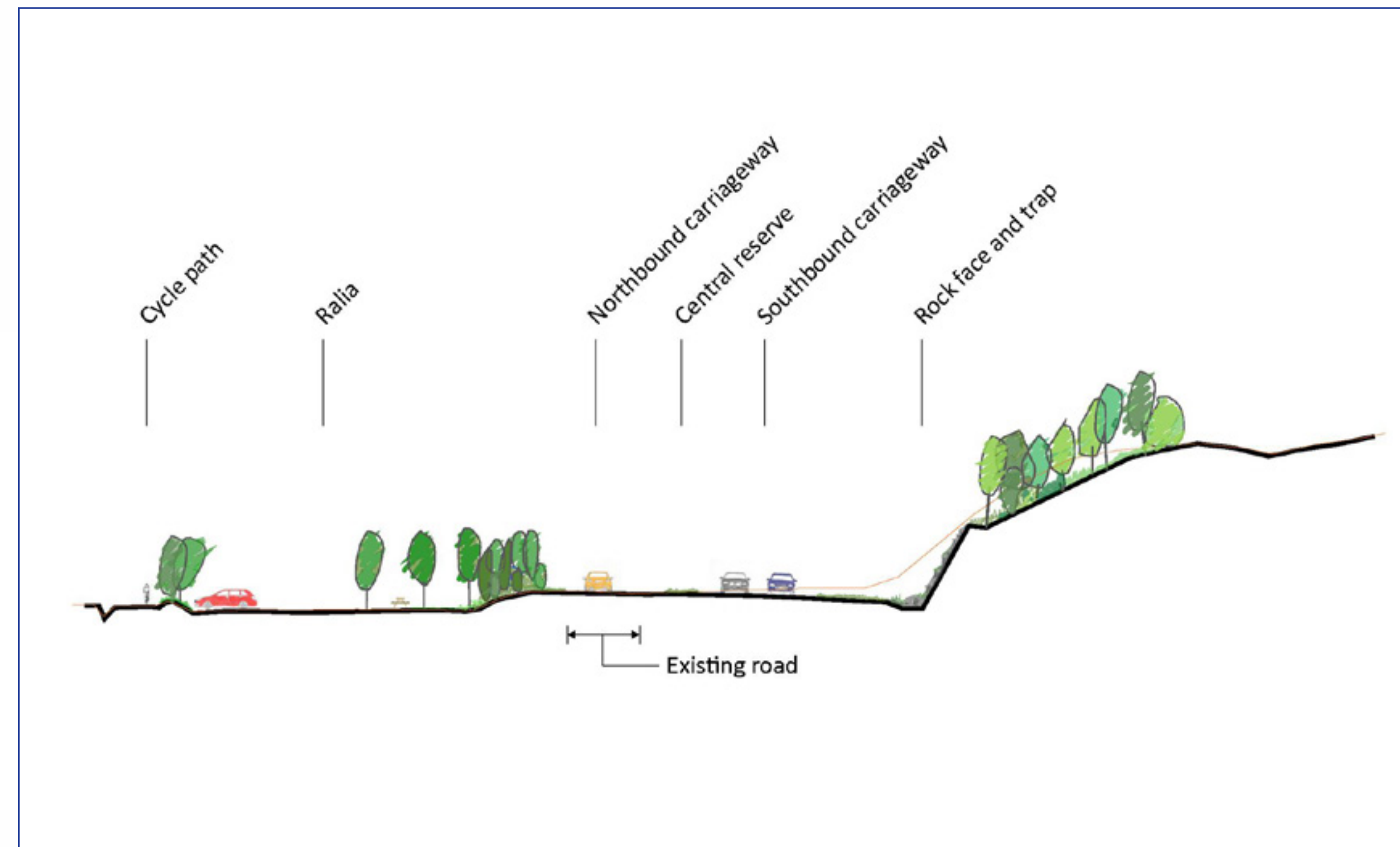
# Stage 2 preferred option – Section 2 Option (a)



Section 2 is 3.82km long and incorporates the existing Newtonmore T-junction with the B9150. It also passes to the east of the Ralia Café and rest area and the community of Ralia properties based around the existing Newtonmore junction.



Visualisation of Option 2a looking north at Braes of Nuide



Typical cross-section schematic of Option 2a

Two options were considered in this area taking into account the constraints imposed by the Highland Mainline Railway, National Cycle Network (Route 7) and the River Truim and its associated flood plain. Option 2a provided online widening to the east and Option 2b was an offline option to the east.

The preferred option is Option 2a, to provide online widening to the east side of the existing A9. This avoids impacts on Ralia Café and rest area and the community of Ralia to the west, whilst reducing the amount of earthworks to the east as there is available ground next to the A9.

**Detailed plans of this option are available for viewing today.**





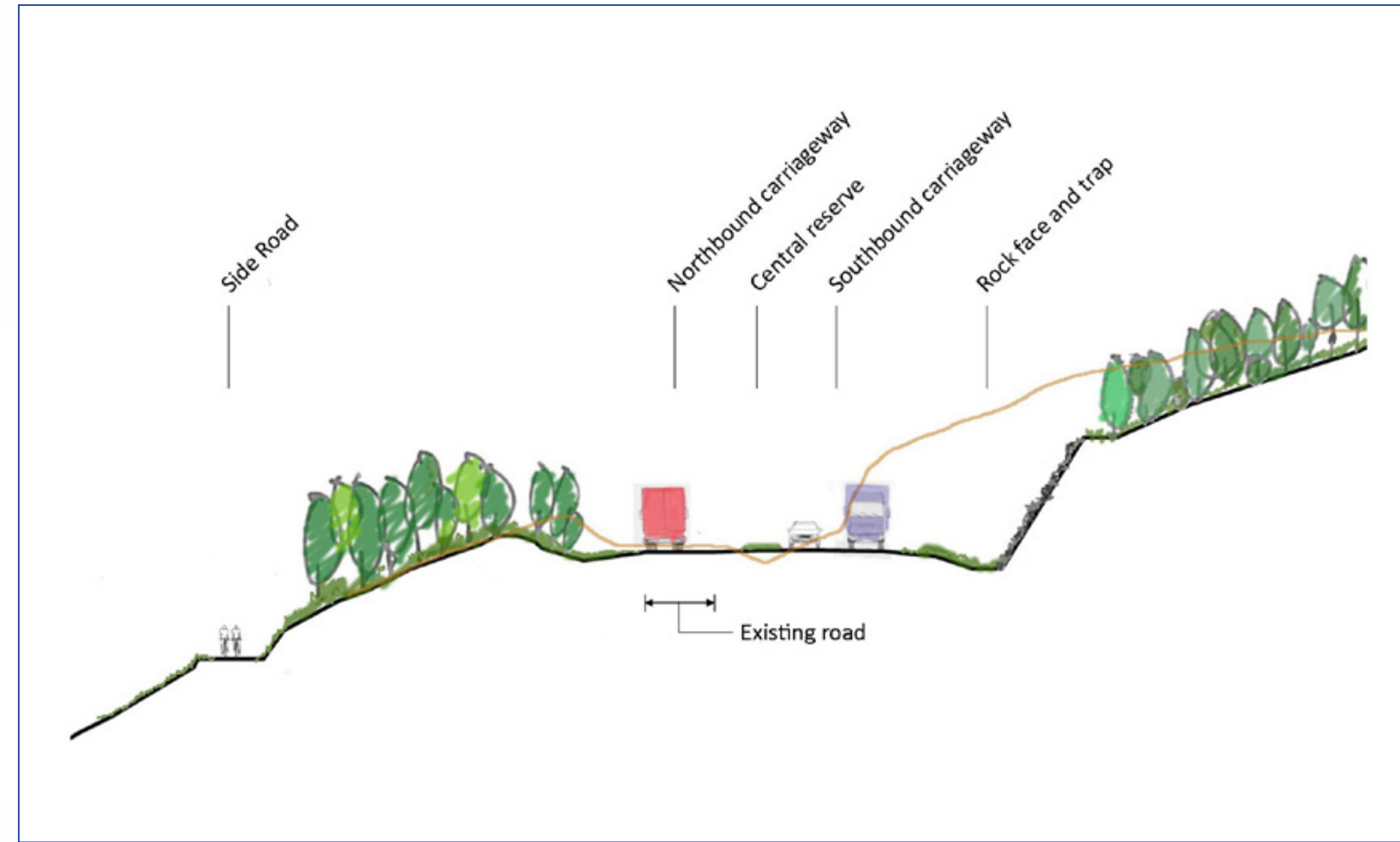
# Stage 2 preferred option – Section 3 Option (a)



Section 3 is 4.22km long, commencing north of the existing Newtonmore junction and continuing north, past Nuide Farm, to the north of Knappach underpass.



Visualisation of Option 3a looking north at Braes of Nuide



Typical cross-section schematic of Option 3a

A single option was considered for the new dual carriageway which involves widening to the east of the existing A9 to minimise impacts on the River Spey and its associated special environmental areas, as well as on adjacent properties and to avoid the Lochan an Tairbh water feature.

**Detailed plans of this option are available for viewing today.**





# Stage 2 preferred option – Section 4 Option (b)

Section 4 is 3.93km long, commencing just north of the Knappach underpass and crossing the River Spey and Insh Marshes floodplain to Chapelpark Farm in the settlement of Lynchat. Section 4 is constrained on both sides by the River Spey and Insh Marshes RAMSAR, Special Protection Area (SPA) and Site of Special Scientific Interest (SSSI), the River Spey Special Area of Conservation (SAC), Insh Marshes SAC, Insh Marshes National Nature Reserve (NNR) and B970 Ruthven Road.

The west side of section 4 is also constrained by Kingussie community duck ponds, Kerrow, Laggan and Lynvoan Cottages and Raitt's Cave Souterrain (scheduled ancient monument).

The east side of section 4 is constrained by Ruthven Barracks (scheduled ancient monument), Insh Marshes NNR, Lynchat settlement, Chapelpark Farm, Highland Mainline Railway and the B9152.

Four options were considered in section 4 taking into account the many constraints:

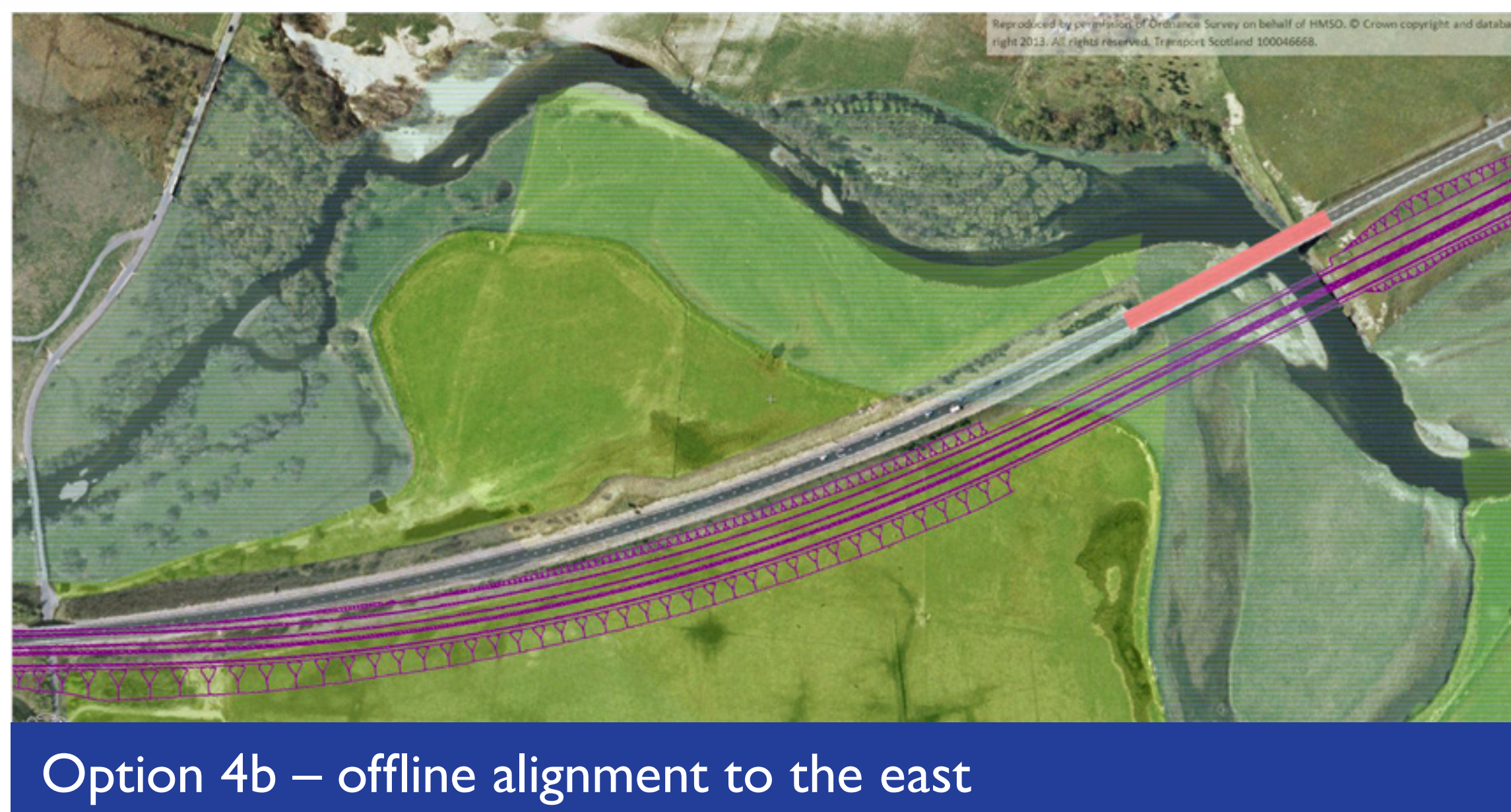


Visualisation of Option 4b looking south



Option 4a – online widening to the east

**Option 4a:** Online widening to the east, retaining the existing bridge and requiring a new bridge for the southbound carriageway.



Option 4b – offline alignment to the east

**Option 4b:** Offline dual carriageway bridge to the east, with the existing bridge and embankment removed and a new dual carriageway bridge crossing the River Spey.



Option 4e – online widening to the west

**Option 4e:** Online widening to the west, retaining the existing bridge and requiring a new bridge for the northbound carriageway.



Option 4f – symmetrical widening

**Option 4f:** Online dual carriageway (predominantly to the west), with the existing bridge and embankment removed, and a new dual carriageway bridge crossing the River Spey.

Following assessment, the DMRB Stage 2 preferred option selected was **Option 4b**, as it :

- limits impact on River Spey (flooding and flood risk)
- limits impact on progressive long term river channel movement
- improves the river/floodplain ecological connectivity and species permeability
- provides for full bridge replacement, easier construction and improved flexibility of bridge choice.

There may be potential to align the new dual carriageway closer to the existing A9 and this will be considered further at the next stage of project development.

**Detailed plans of this option are available for viewing today.**



# River Spey Bridge development

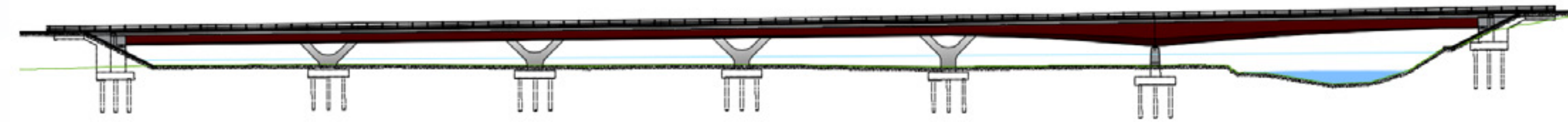
Feedback from the November 2015 exhibition on the River Spey Bridge indicated support for a new bridge structure which:

- fitted well within the local landscape
- would not interrupt views of the Insh Marshes from Kingussie
- would not compete with views to and from Ruthven Barracks.

Feedback from members of the public generally gave support for a bridge style similar to that of the existing bridge, which sits low in the landscape.

The development process has considered the environmental importance of the River Spey corridor and the Insh Marshes National Nature Reserve.

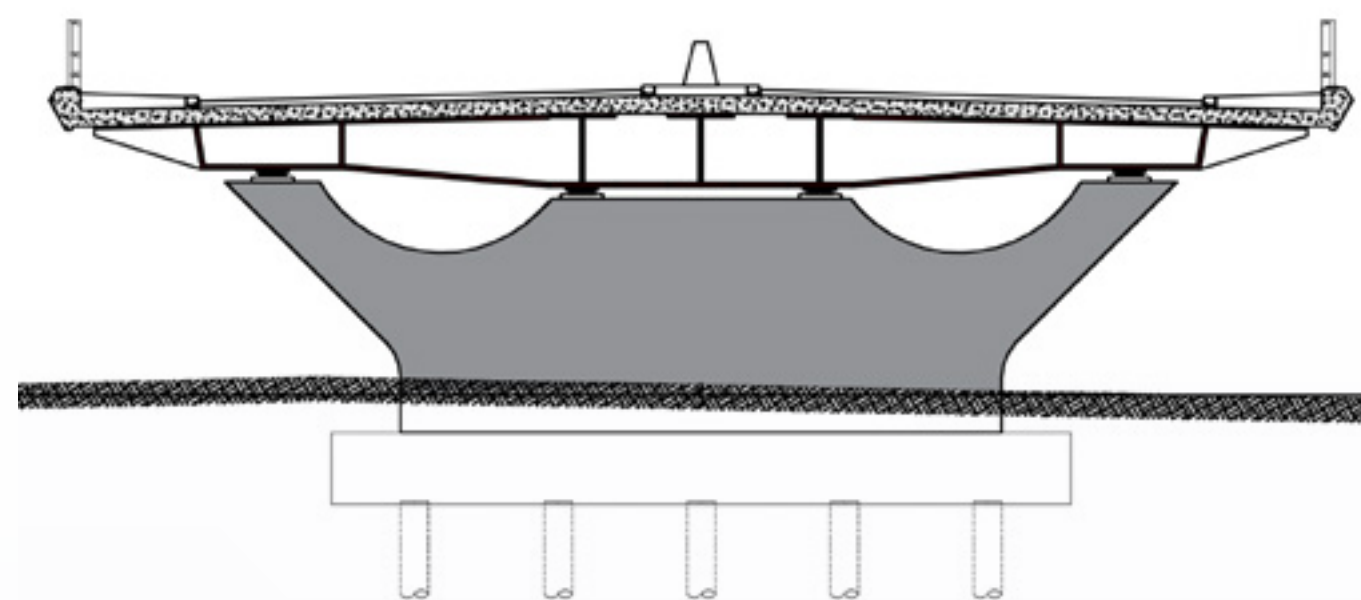
This panel illustrates two bridge types which will be considered further as part of the DMRB Stage 3 Assessment process. The preferred bridge type, pier configuration and span arrangement will be confirmed following further assessment.



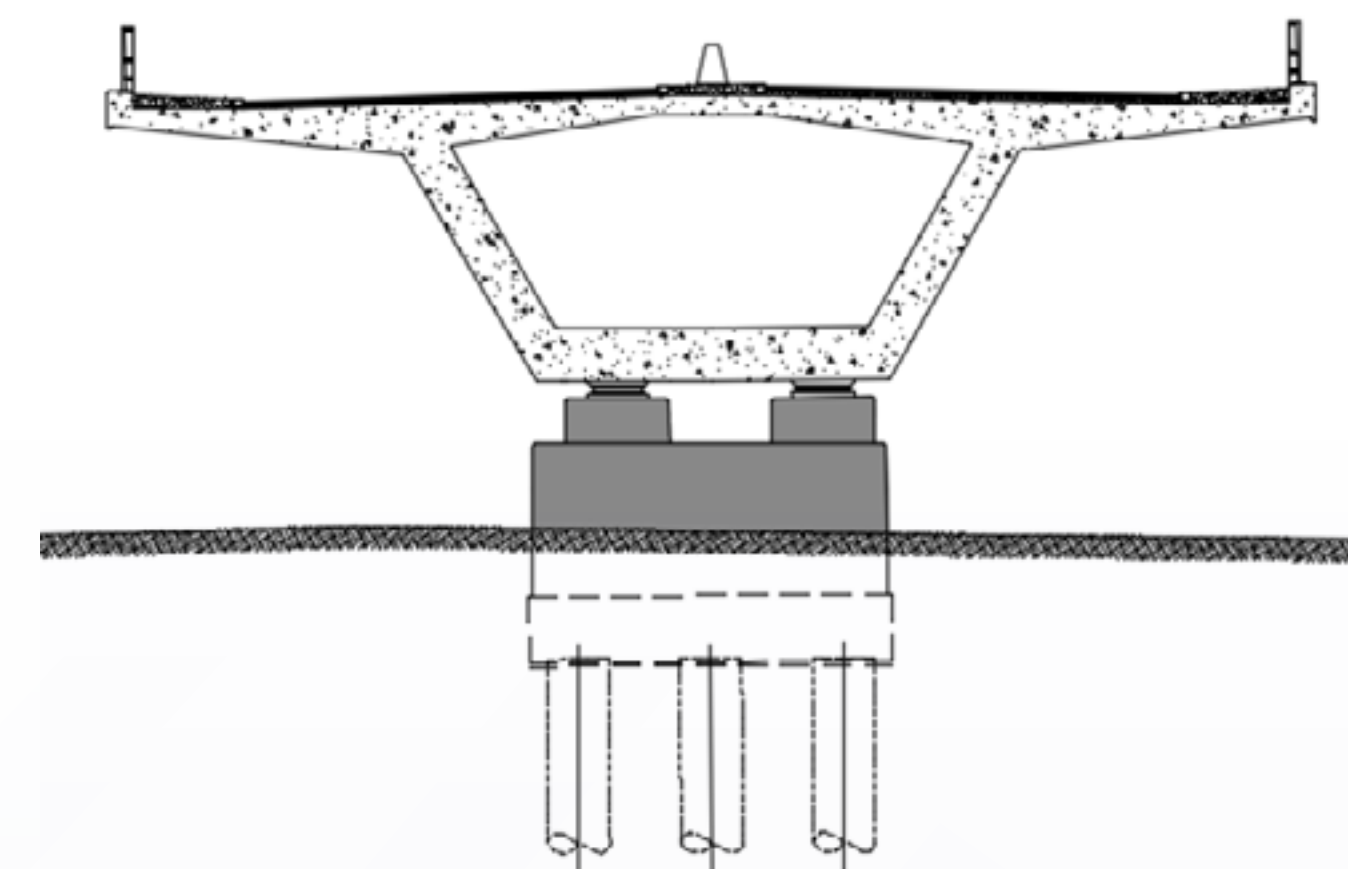
**Potential steel composite bridge**



**Potential balanced cantilever bridge**



**Typical pier arrangement – steel composite**



**Typical pier arrangement – balanced cantilever**



# River Spey flood risk assessment

The River Spey is a significant feature in the local landscape between Newtonmore and Kincaig. The A9 crosses the floodplain upstream of the Insh Marshes.

We have created a hydraulic model of the River Spey and its floodplain to investigate the impact of severe flood events on the A9 and the impact of A9 dualling upstream and downstream of the A9 at Kingussie.

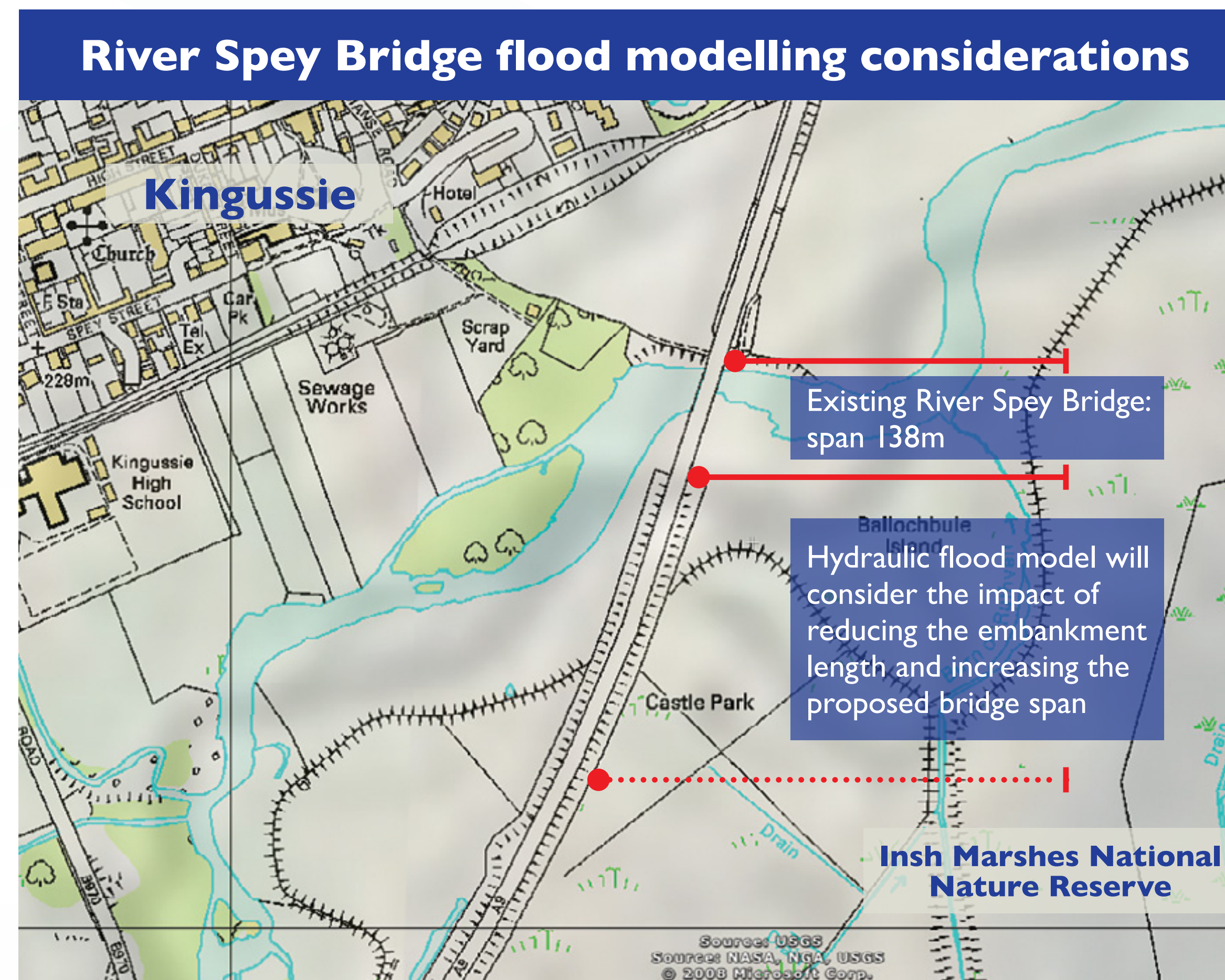
Our model has allowed us to consider the impact of various embankment and bridge span combinations.

Our studies indicate that the ability of flood water to pass below the Spey crossing is important, with different bridge spans over the Spey affecting upstream and downstream water levels in major flood events (*a 0.5% probability of flood extents being equalled or exceeded in any one year*).

We will develop the selected preferred option with an embankment and bridge span combination which aims to minimise the environmental impact on the River Spey and Insh Marshes and at the same time minimises flood impacts on receptors such as property, utilities, roads and the railway.



River Spey flood extents looking south, August 2014





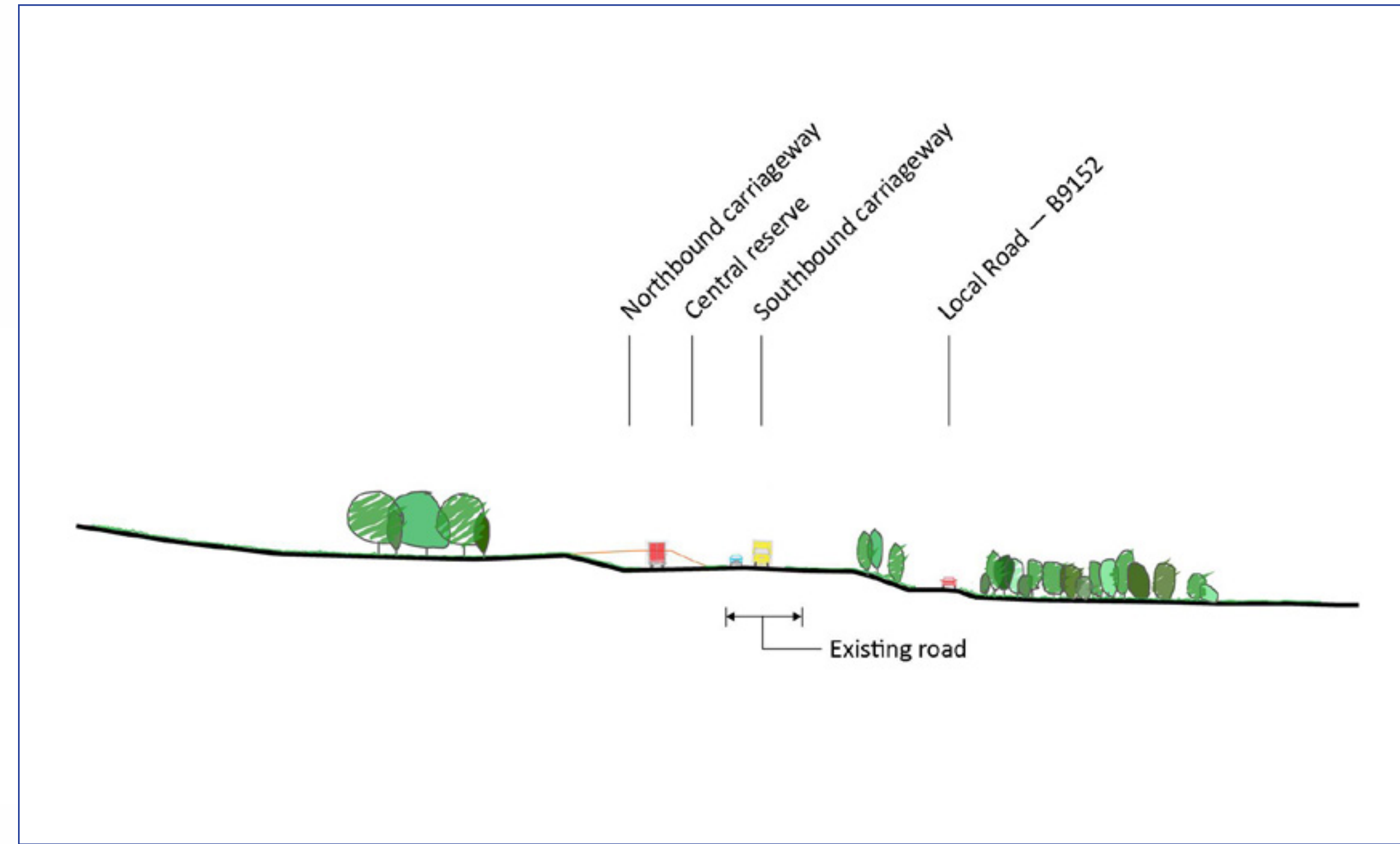
# Stage 2 preferred option – Section 5 Option (a)



Section 5 is 3.68km long, starting at Chapelpark Farm and extending north to the tie-in with the Kinraig to Dalraddy project.



Visualisation of Option 5a looking north



Typical cross-section schematic of Option 5a

There is limited opportunity to widen to the east of the existing A9 due to the significant constraint posed by the settlement of Lynchat, Balavil properties (East & West Lodge – Grade B listing), Memorial to MacPherson Obelisk and the existing B9152, which runs parallel to the A9 for the whole of section 5.

As this section passes through a very challenging corridor, a single option for the new dual carriageway was considered, which involves widening to the west of the existing A9.

**Detailed plans of this option are available for viewing today.**





# Stage 2 preferred junction – Newtonmore Option 7

Two potential junction options were considered during the DMRB Stage 2 Assessment for Newtonmore junction. These options were dependent on the mainline option in section 2.

Both junction options are in the form of a 3-way – 2-level trumpet arrangement.

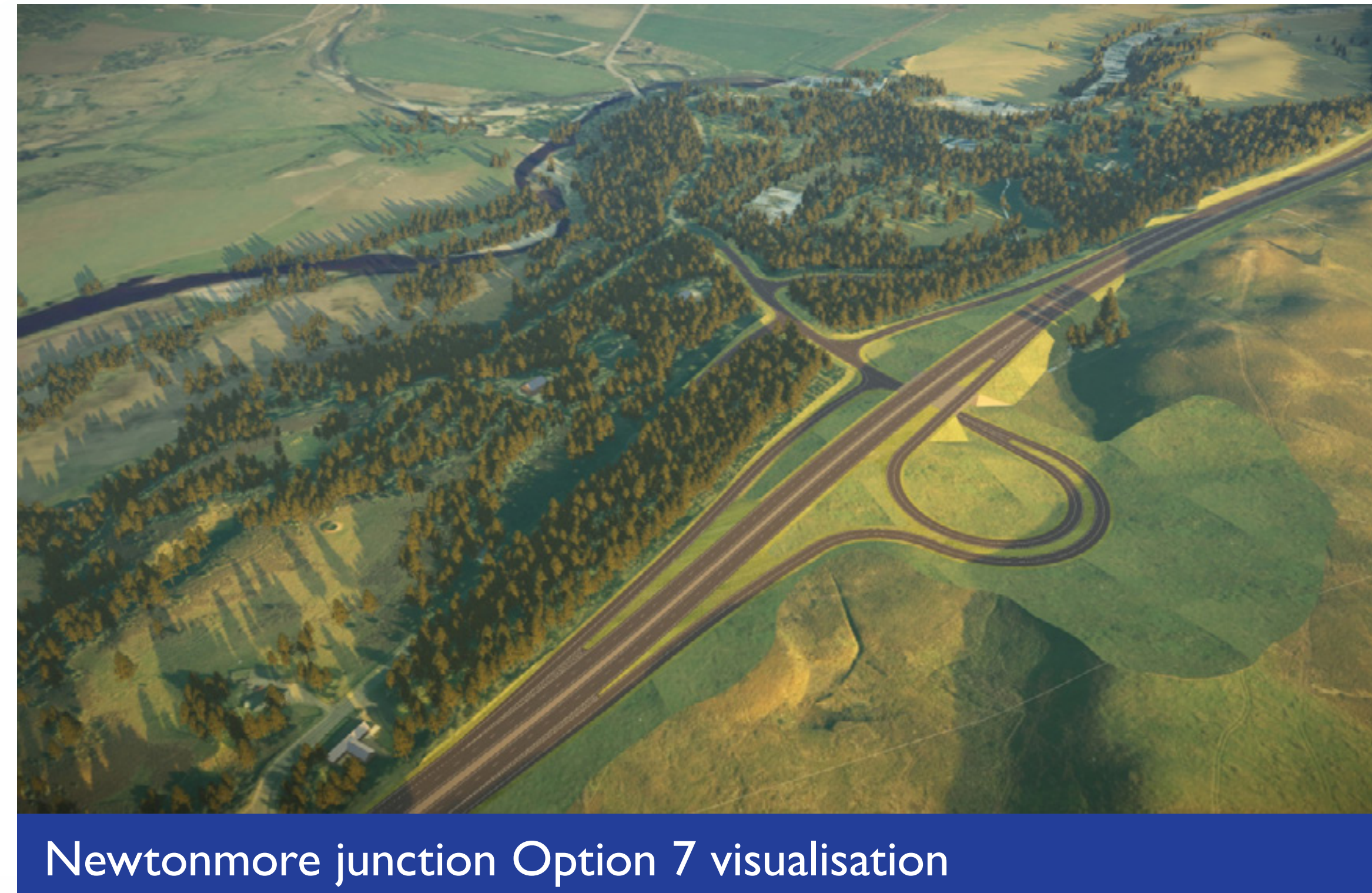
**Newtonmore Option 4** was designed to tie-in to the offline alignment of the mainline, Option 2b.

**Newtonmore Option 7** was designed to tie-in to the online widening of the mainline, Option 2a.

The preferred junction option is Option 7 as mainline Option 2a was chosen as the preferred mainline in this section.

The selection of junction Option 7 results in a better earthworks balance for the project. It is considered to provide a more appropriate fit within the surrounding landscape because of the reduced earthworks footprint.

There may be potential to consider if a more compact junction layout can be adopted and this will be considered further at the next stage of the project development.



**Detailed plans of this option are available for viewing today.**



# Stage 2 preferred junction – Kingussie Option 2

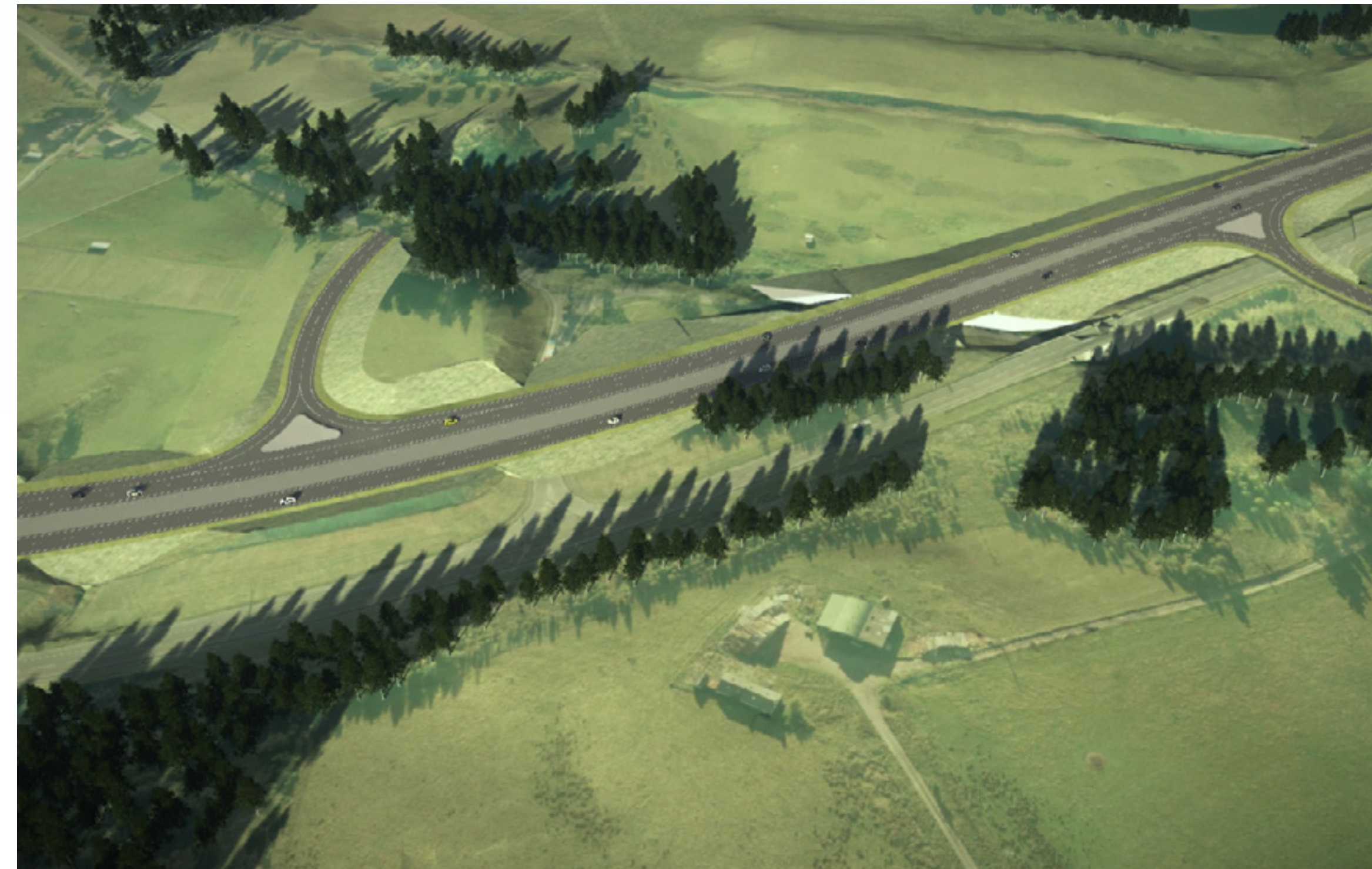
Two potential junction options were considered in the final DMRB Stage 2 Assessment for Kingussie junction. Designs for both junction options were prepared for each mainline option within section 4.

**Kingussie Option 2** is a compact grade-separated junction with a similar layout design to the existing junction with an upgrade of the existing left-in/left-out arrangements on both the northbound and southbound carriageways. This option was developed to include additional lanes on the northbound and southbound diverges to take account of concerns expressed by members of the public about the existing junction layout.

**Kingussie Option 7** is a grade-separated junction which realigns the A86/B9152 slightly to the north to accommodate the new slip roads which have longer merging and diverging lengths than the current junction.

The preferred junction option is Option 2 as it has benefits over Option 7, including:

- minimised impact on surroundings including A86/B9152, Kingussie community duck ponds and Kingussie rail bridge
- improved earthworks balance (reducing waste disposal)
- in line with public feedback where a preference has been shown for a junction layout similar to the existing one.



Kingussie junction Option 2 visualisation

**Detailed plans of this option are available for viewing today.**



# What happens next?

Public consultation will continue throughout the DMRB Stage 3 Assessment process and the comments and feedback from stakeholders and members of the public, including from this exhibition, will be considered as part of the further development, refinement and assessment of the preferred route option.

Further consultation will also be undertaken on the access strategy for the route, as we look to address access to properties and land adjacent to the existing A9. Some of this work has already started and plans indicating potential options to provide access to Glen Truim, Ralia, Nuide and Inverton are available to view at this exhibition.

Transport Scotland's consultant will now take forward the development and assessment of the preferred route option for the project (DMRB Stage 3 Assessment).

The next stage of the assessment process will include:

- ongoing consultation with stakeholders, affected landowners and members of the public to inform the design development of the preferred route option
- identification of the land required for the project and preparation of draft Orders, preparation of an environmental impact assessment of the developed preferred route option including access issues and publication of an Environmental Statement which will include suitable mitigation measures to reduce impacts of the project on the environment



River Spey Bridge looking south

- a further event to present the developing DMRB Stage 3 design and seek further feedback
- the publication of the draft Road Orders, Compulsory Purchase Order and Environmental Statement.

We are now entering the DMRB Stage 3 Assessment phase of work. Some early work on the next stage of design has already started.

**If you would like to know more about some of this work, or the next stage of project development, please speak to one of our team members here today.**



# Comments and feedback

Transport Scotland welcomes your comments and feedback on the preferred route option and will use this to help inform the ongoing project development.

In particular, we'd welcome your views on the following topics:

- the preferred route option and junctions
- lay-bys
- local access
- Non-Motorised Users (e.g. pedestrians, cyclists and equestrian) routes.

Please take time to consider the information presented and provide any comments you may have as soon as possible and **by 4 May 2017**.

Email to:  
[carron.tobin@ruraldimensions.com](mailto:carron.tobin@ruraldimensions.com)

Or by post to:  
**Carron Tobin**  
**CH2M / Fairhurst**  
**A9 Dualling team**  
**City Park**  
**368 Alexandra Parade**  
**Glasgow**  
**G31 3AU**

## Further information

Further consultation through local drop-in events and one-to-one engagement is planned during the DMRB Stage 3 Assessment process.

We will keep you updated through a range of direct communications and consultations, as well as further public exhibitions.



You can contact CFJV Stakeholder Manager Carron Tobin, at any time:

Telephone: **0771 577 3660**  
Email: [carron.tobin@ruraldimensions.com](mailto:carron.tobin@ruraldimensions.com)

You can also contact Transport Scotland's A9 Dualling team:

Telephone: **0141 272 7100**  
Email: [a9dualling@transport.gov.scot](mailto:a9dualling@transport.gov.scot)

For further information on the Crubenmore to Kincaig project and to view the exhibition materials, drawings and visualisations, please visit:

[www.transport.gov.scot/project/a9-crubenmore-kincaig](http://www.transport.gov.scot/project/a9-crubenmore-kincaig)

For further information on the wider A9 Dualling Programme please visit the Transport Scotland website at:

[www.transport.gov.scot/project/a9-dualling](http://www.transport.gov.scot/project/a9-dualling)

