WHAT HAPPENS NEXT

the public may comment on the proposals until 16th January Report will be available for inspection, during normal business 2015.

All comments on the proposals will be considered and resolved • where possible. In the event that resolution is not possible the Scottish Ministers may instruct that a Public Local Inquiry (PLI) . into the draft Statutory Orders be held. If this is necessary all interested parties will be informed of the arrangements and notices will be placed in the local press to allow all members of • the public the opportunity to attend. Following the conclusion of the statutory processes, the scheme may be taken forward to construction, including any amendments recommended at the PLI. The construction contract for the works will be subject to • Wick, Girnigoe Street, KW1 4HW a competitive tendering process and the contract prepared will include all engineering and environmental mitigation included in the proposed design, with appropriate amendments as charge. The Environmental Report can also be viewed for free determined by the PLI process, if any.

FURTHER INFORMATION

Following the publication of draft Road Orders, members of Copies of the draft Statutory Orders and the Environmental hours, free of charge at the following locations:

- Transport Scotland, Reception, 9th Floor, Buchanan House, 58 Port Dundas Road, Glasgow, G4 0HF
- Highland Council Headquarters, Glenurquhart Road, Inverness, IV3 5NX
- **Dunbeath Post Office, Caithness, KW6 6EA**
- Golspie, Olsen House, Main Street, KW10 6RA
- Thurso, Rotterdam Street, KW14 8AB

Copies of the Scheme Summary Report are available free of on the Transport Scotland Website: www.transportscotland.gov.uk





IF YOU WISH TO MAKE REPRESENTATION ON THE SCHEME, PLEASE WRITE TO DIRECTOR OF MTRIPS, TRANSPORT SCOTLAND, BUCHANAN HOUSE, 58 PORT DUNDAS ROAD, GLASGOW, G4 0HF BEFORE 16TH JAN 2015.

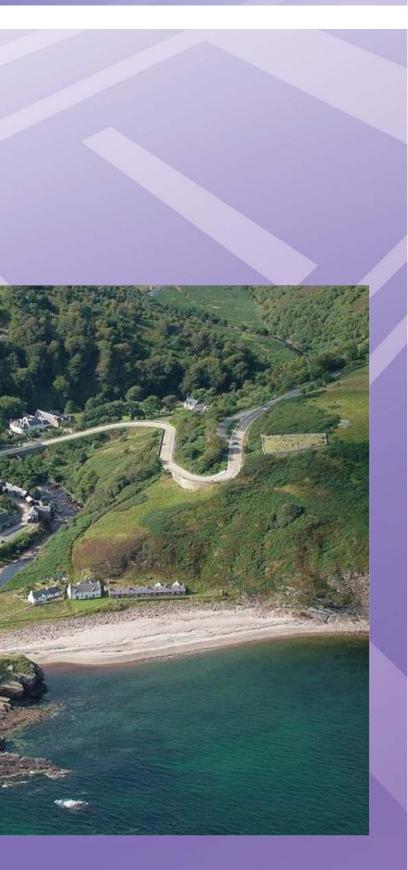
A9 Berriedale Braes Improvement

Scheme Summary Report Nov 2014

URS







INTRODUCTION

Nuclear Decommissioning Authority, Hitrans and The Highland and the route now proposed has been assessed against Council to improve the A9 Trunk Road at Berriedale Braes. these objectives. The objectives for the improvements can be The improvements seek to remove the hairpin bend just north summarised as follows. of the Berriedale Village and locally improve the alignment at this location. This document provides a summary of the work carried out to develop the A9 Berriedale Braes Improvement Scheme, including a summary of the environmental assessment that was carried out alongside the engineering design. This document accompanies the publication of the draft Roads Order and draft Compulsory Purchase Order published 21st November 2014.



NEED FOR THE SCHEME

Berriedale Braes is located north of Helmsdale and south of ALTERNATIVES CONSIDERED Dunbeath on the A9 Trunk Road in Caithness and forms part of the strategic road network north of Inverness. The location A wide range of options were considered and these were of the Scheme is shown above.

The road is set in a demanding terrain and requires steep options assessed in that report are shown below. The report gradients and tight bends on either side of the Berriedale village concluded that Option 4a is the Preferred Route and that it to fit within the surrounding landscape. North of the village a is developed in more detail in Stage 3 of the design. This hairpin bend with a 13 metre radius and 11% gradient has assessment is discussed in more detail in the sections that been introduced to affect the change in level within the rugged follow. and steep topography. Currently, two HGVs approaching in opposite directions cannot pass on the hairpin bend, as the northbound vehicle takes up most of the carriageway in order to negotiate the bend. This is an operational and safety issue. This was highlighted when an athletics club bus travelling south mis-judged the bend and it was only the safety barrier that prevented the bus going over the edge of the cliff.

IMAGE OF DAMAGED BARRIER FOLLOWING **BUS COLLISION**



OBJECTIVES OF THE SCHEME

Transport Scotland are working with its funding partners; the Objectives for the current work were set early in the process

The improvement scheme will ensure that all vehicles are able to travel on the A9 at Berriedale Braes without having to stop or give way to vehicles travelling in the opposite direction. The improvement scheme will also:

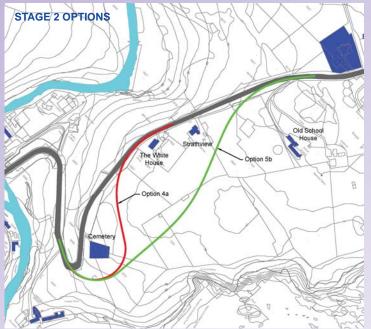
- Minimise the impacts of disruption to the existing route during construction;
- Minimise the risk and potential serious consequences of errant vehicles leaving the carriageway; and
- Ensure one lane remains open during periods of maintenance and vehicle breakdown.

The improvement recognises that the A9 at this location is a lifeline route and will contribute to sustaining and enhancing the social and economic development of Caithness, Orkney and northern Sutherland. It will maximise the economic transport user benefits while taking cognisance of the capital and future operation and maintenance costs.

The environmental impact of the improvement scheme will be minimised and, where possible, will provide opportunities for enhancing the natural and built environment. In particular attention will be paid to ecology, visual impacts and landscape impacts.

The improvement scheme will aim to gain support from stakeholders, including the local community, to enable a smooth passage through the statutory process thereby minimising potential delay to implementation.

reduced to the two options assessed in detail in the Stage 2 Scheme Assessment Report, issued in March 2014. The two



The construction works will have a temporary impact on the Once the Scheme is constructed, residential properties setting of the Berriedale Castle, however, once the Scheme within 600m are expected to experience a negligible impact is constructed and open to traffic it is considered that there in daytime traffic noise. A negligible increase in traffic noise will be no change to the setting. No significant impacts were levels in the long term is also predicted at all the identified identified on any other cultural heritage designations; however, non-residential receptors, except for the East Caithness Cliffs minor impacts have been identified for the White House SPA/SAC and Berriedale Cliffs SSSI, where a small area is (category C listed building) and Berriedale Cemetery which is predicted to experience a minor increase. a non-designated asset.

Pre-construction archaeological surveys will be carried out to ensure there are no impacts on 'unknown' assets. Landscape planting has been carefully considered as part of the Scheme design to minimise any impacts on the setting of Berriedale Castle.

ROAD DRAINAGE & WATER ENVIRONMENT

The significant water resources in the area include the Berriedale and Langwell Waters, the coastal water and the groundwater beneath the Scheme. The assessment considered the impact during both construction and post construction when the new road is open to traffic.

A Construction Environmental Management Document will be prepared by the Contractor to ensure that control measures are in place to reduce the potential of pollution affecting MATERIALS surrounding water bodies.

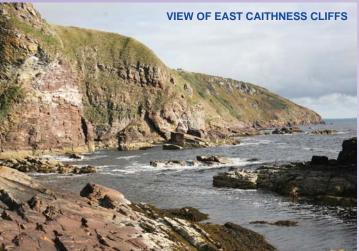
The construction of the Scheme will require the use of building Once the Scheme is constructed, road run off from the A9 would materials and will also generate surplus material. Due to the be collected and passed through three levels of Sustainable local topography it will be necessary to excavate large amounts Drainage Systems (SUDS) for treatment before being of rock and soil to construct the road. Some of the excavated discharged to the Berriedale Water. No significant adverse material will be reused on site and provide landscape reeffects on the existing water quality of the watercourses or profiling of the old redundant road. The rest of the material will coastal water are predicted as a result of the proposals. be removed off site.



NOISE & VIBRATION

The proposed Scheme will result in both temporary noise impacts during the construction works and permanent noise impacts after the new road has been built and is open to traffic. In addition, blasting works required during the construction will result in temporary impacts.

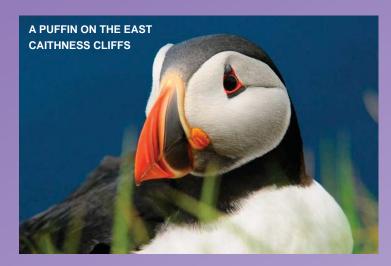
The impact of construction noise construction works is classed as moderate at the closest affected residential properties. A range of best practice noise reducing measures will be adopted by the contractor following consultation with The Highland Council. Blasting (if required) may result in moderate vibration impacts on nearby residential properties, which will be monitored by the Contractor. Impacts at the East Caithness Cliffs SPA/SAC and Berriedale Cliffs SSSI will be avoided through the timing of the works outside of the breeding bird season.



It was concluded that construction of the scheme will result in negligible carbon emissions.

In order to mitigate the impacts of the Scheme, the contractor will be required to produce a Construction Environmental Management Document and clearly specify how the surplus material will be dealt with. The Contractor will also carry out the works in such a way that, as far as is practicable, the amount of surplus material to be disposed of is minimised.





A targeted non-statutory environmental assessment was carried out and an Environmental Report has been prepared NATURE CONSERVATION to accompany the draft Roads Orders.

avoided and environmental benefits delivered.

The Environmental Report provides an assessment on the likely effects of the proposed Scheme and its purpose is to act Minor impacts are expected from a minor loss of mature as a targeted report on the main likely impacts and proposes trees and grassland. No adverse impacts are expected on mitigation measures (measures that would be implemented any designated sites. Potential disturbance of SPA-protected to avoid, reduce or remedy adverse environmental impacts) seabirds is most likely from rock-blasting and piling but will to be taken forward to the construction contract. A summary be avoided by restricting these activities to the non-breeding of each of the environmental topics covered in the report is season. Tree/shrub planting of locally native species including provided below.

LANDSCAPE AND VISUAL AMENITY

in order to identify any sensitive landscapes, establish the existing landscape character, and identify key viewpoint locations.

The proposed Scheme will not be visible from the majority of residential properties within the area and so visual effects will be limited. However, there will be some significant temporary effects on views during construction. Negative effects will be reduced once the construction phase is complete and will further reduce as the proposed planting matures. In the long-term, significant effects are anticipated on views from Berriedale Castle and the Beacon Tower, with the remaining viewpoints not significantly affected.

VIEW FROM BERRIEDALE CASTLE



The landscape character assessment concluded that the proposed Scheme would not significantly affect the overall impression of the landscape character of the area. However, there would be some localised effects which would reduce as the proposed planting matures and are not considered significant in the long term.

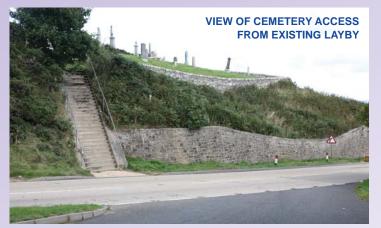
Landscape proposals have been designed to provide partial screening and to help integrate the Scheme to the character of the landscape. The design largely consists of native woodland planting, grass and wildflower seeding. As mitigation planting establishes over time the overall effects on landscape character would not be significantly adverse. Operation visual effects at all locations would be reduced and visual effects would be further reduced as mitigation planting matures, with significant visual effects being limited to two locations (Berriedale Castle and Beacon Tower).

The Scheme is in close proximity to, but does not directly The environmental assessment has been informed by impinge upon, East Caithness Cliffs SPA and SAC, Berriedale consultations with a wide range of organisations and & Langwell Water SAC and Berriedale Cliffs Site of Special landowners. This information and the findings of the Scientific Interest (SSSI). Ecological surveys undertaken in assessments have been used to help develop the design of the 2013-2014 included habitats/plants, breeding birds, bats, otters Scheme by ensuring that wherever possible, adverse effects and other protected mammals. This included specific surveys on people and the natural and cultural environment would be of protected seabirds in nearby parts of East Caithness Cliffs SPA, small breeding populations of which were found on cliffs near the Scheme.

juniper and the provision of a drainage basin will provide general habitat enhancement, and, in combination with replacement of some heavily-grazed poor pasture with rough grassland/scrub on new wide verges, it is considered that A review of the site and the surrounding area was undertaken there are some benefits for breeding birds and reptiles.

CULTURAL HERITAGE

The cultural heritage assessment considered potential effects on archaeology (below ground remains), historic landscape and built heritage (such as listed buildings). A desk and field study was carried out to gather relevant information on known archaeological remains along the route, and on built heritage features such as listed buildings. Assessment for cultural heritage assets includes direct physical impacts on heritage features as well as any impacts on the setting which is important to the way in which historic structures or places are understood, appreciated or experienced.



STAGE 3 DESIGN DEVELOPMENT

Following completion of the Stage 2 Assessment, the design of the Preferred Route has been developed in sufficient detail The lay-by connects to the entrance to the cemetery with a to allow land to be identified for the construction of the scheme length of new footpath designed to be suitable for disabled and for the publication of draft Road and Compulsory Purchase users. It is proposed to include a viewing area at the highest Orders. The main aspects developed were: (i) the access to point along the footpath to allow members of the public to stop the cemetery (ii) public utilities on the old road, (iii) visibility and take advantage of the views. The proposals for this area from the access to the White House, (iv) safety barriers to be also include landscaping of the area between the new footpath provided and (v) preliminary drainage design that meets with and the slope leading down to the existing road, including the approval of the Scottish Environment Protection Agency landscaping of the redundant sections of existing road. The (SEPA) and Scottish Natural Heritage (SNH). new lay-by will also allow slow moving northbound HGVs to pull over to allow faster vehicles to pass.



As a result of considering these aspects the following have of the replacement bend. been included in the design:-

- Divert the services in the existing road to the new road to allow the old road to be landscaped
- Provide a lay-by and footpath link to access the cemetery
- Introduce a viewing area along the footpath to the cemetery
- Provide a safety barrier with high containment on the improved bend
- Provide 3 levels of treatment to the road drainage, including a drainage basin
- Move the new road away from the White House to provide better visibility to and from the access

Development of the design resulted in the scheme described below.

THE PROPOSED SCHEME

Environmental assessment work has been ongoing since 2013 and each of the options considered for the A9 Berriedale Improvement were considered in terms of their environmental In addition, it was recognised early in the process that there was a need to assess the impacts on the East Caithness Cliffs

The main criterion for the engineering design of the Preferred Route has been the need to improve the operational requirements, as stated in the Scheme Objectives. Consequently the radius and carriageway width has been impact. Based on the substantial amount of environmental increased to allow two way traffic at all times and the gradient information that was collated, it was possible to determine has been reduced allowing reasonable speeds as traffic that there would be no likely significant environmental impacts negotiates the improved alignment. The design utilises the associated with the Scheme and the Environmental Impact existing retaining wall supporting the road on the approach to Assessment under the Environmental Impact Assessment and at the hairpin bend, since any disturbance to this would (Scotland) Regulations, 1999 (as amended) was not required. prove difficult to construct without having to close the road. The design consists of a 530m long improvement to the Special Protection Area (SPA) and Special Conservation Area existing A9 Trunk Road, with the majority being built off the line (SCA). The East Caithness Cliffs are important for the bird of the existing road. As a result disruption to trunk road traffic populations and the habitats that support them. A Habitats during construction will be kept to a minimum. Starting at the Regulation Appraisal (HRA) screening assessment was southern end, some 50m south of the existing hairpin bend, undertaken which determined that there would be no significant and travelling in a northbound direction, the new alignment impacts on the SPA and SCA provided any rock blasting, piling bypasses the existing hairpin bend by increasing the radius of or vegetation clearance is undertaken out with the breeding the bend to go around the cemetery on the north side, part on bird season. a new embankment and part in cut. Once past the north side of the cemetery the alignment straightens out for approximately

100m before entering a right hand bend with a new lay-by introduced on the Left Hand Side (LHS).

North of the lay-by the right hand bend continues, taking the road away from the property known as the White House improving the visibility for vehicles leaving the house, before tying into the existing road north of the White House.

On the LHS below the cemetery, the slope is steepened and reinforced to avoid disturbing the cemetery. On the Right Hand Side (RHS) opposite the cemetery, adjacent to the Berriedale Cliffs, it is anticipated that the design will include a reinforced soil embankment with a piled sub-structure beneath it to ensure long term stability of the new road on such steeply sloping ground. In recognition of the steep slopes at this location, a high containment safety barrier is included around the outside

West of the cemetery, the side slopes adopted in the design are more gentle and both the soil and rock slopes will be covered with topsoil and grassed.

Drainage from the new road will pass through 3 levels of treatment prior to discharge into the Berriedale Water with the flows being attenuated through the use of a detention basin to reduce risk of flooding.

In addition to the above measures, safety barriers and fencing will be provided as normal as part of the improvement scheme.

No properties will be demolished as a result of the proposed improvements. In particular, the design has been developed to avoid any alteration to the properties known and the "White House" and "Strathview" which are the closest dwellings to the scheme. The Scheme will require the compulsory purchase of farmland for construction.

ENVIRONMENTAL ASSESSMENT

