Welcome

A90/A96 Haudagain Improvement

This exhibition presents the preferred option for the Haudagain Improvement scheme and also explains the work undertaken so far.

Transport Scotland and Jacobs UK staff (wearing blue name badges) will be happy to assist with any queries you may have in relation to the junction improvement scheme. A leaflet summarising the exhibition is also available for you to take away as well as a

feedback form where we welcome your comments.



www.transportscotland.gov.uk/road/projects/ **A90-A96-Haudagain-Improvement**







Scheme background

This scheme involves an improvement at Haudagain roundabout, the junction between the A90 and A96 trunk roads.

Key stages in the development of the scheme to date include:

- 2008: STAG appraisal undertaken by Aberdeen City Council (ACC) recommends Option 5 as the preferred route
- **2010:** Minister for Transport, Infrastructure and Climate Change confirms Option 5 as the preferred option
- 2013/2014: Transport Scotland revisits the STAG appraisal to take account of ACC's updated development plans in the wider Aberdeen area. This work was carried out in accordance with the Design Manual for Roads and Bridges (DMRB)
- **2014:** Design and assessment work confirms that Option 5 remains the preferred option.

The scheme objectives are:

- To reduce congestion and unreliability by improving and sustaining base year 2004 journey times for commercial and public transport traffic until 2033
- Measures must minimise the risk of transport related accidents especially for vulnerable users in the vicinity of the junction to improve on 2002 - 2006 casualty levels
- To make socially-inclusive and healthy transport modes more attractive to use, including cycling, walking and public transport measures to be promoted in all measures
- To minimise traffic induced severance on communities by ensuring measures do not have a significant detrimental impact on 2004 walk time accessibility
- To contribute to the City Council's regeneration aims by complementing the development of the Logie/Manor area of Middlefield.



Scheme assessment process

The DMRB Stage 2 Assessment carried out in 2013/2014 involved the following work:

- **Surveys**
- **Review of existing traffic, environmental** and engineering conditions
- **Review and sifting of options**
- **Design and engineering assessment** of options
- **Environmental impact assessment and** consideration of potential environmental mitigation
- Traffic modelling and assessment of options
- **Preparation of DMRB Stage 2 Assessment** Report
- Confirmation of Preferred Option.





Options sifting

Options sifting involved:

- **Review of the 41 options identified in the** 2008 STAG report
- Identification of eight other potential options
- **Assessment of options**
- **Review of option assessment at a sifting** workshop.



At the sifting workshop each option was reviewed considering the following criteria:

- **Operational performance (22 options** discounted primarily under this criteria)
- **Scheme objectives (one option discounted** primarily under this criteria)
- **Environmental impact (eight options)** discounted primarily under this criteria)
- **Engineering complexity (11 options** discounted primarily under this criteria)
- **Cost (four options discounted primarily** under this criteria).

The outcome of the workshop determined that the following options be developed and assessed further:

- **Option 4 signal-controlled crossroads**
- **Option 5 new dual carriageway link road**
- **Option 13 signalised roundabout.**



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Option 4 – signal-controlled crossroads

Option 4 would include the following:

- Existing roundabout replaced with a sign controlled crossroads
- A90(T) Mugiemoss Road would be wide to provide two lanes in each direction cl to the junction
- A96 Great Northern Road would be sub to minor modifications only
- **A90(T)** North Anderson Drive northbou carriageway would be widened to provid an additional two lanes on approach to t junction
- A96(T) Auchmill Road eastbound carriageway would be widened to provide an additional lane on approach to the junction.

Other features:

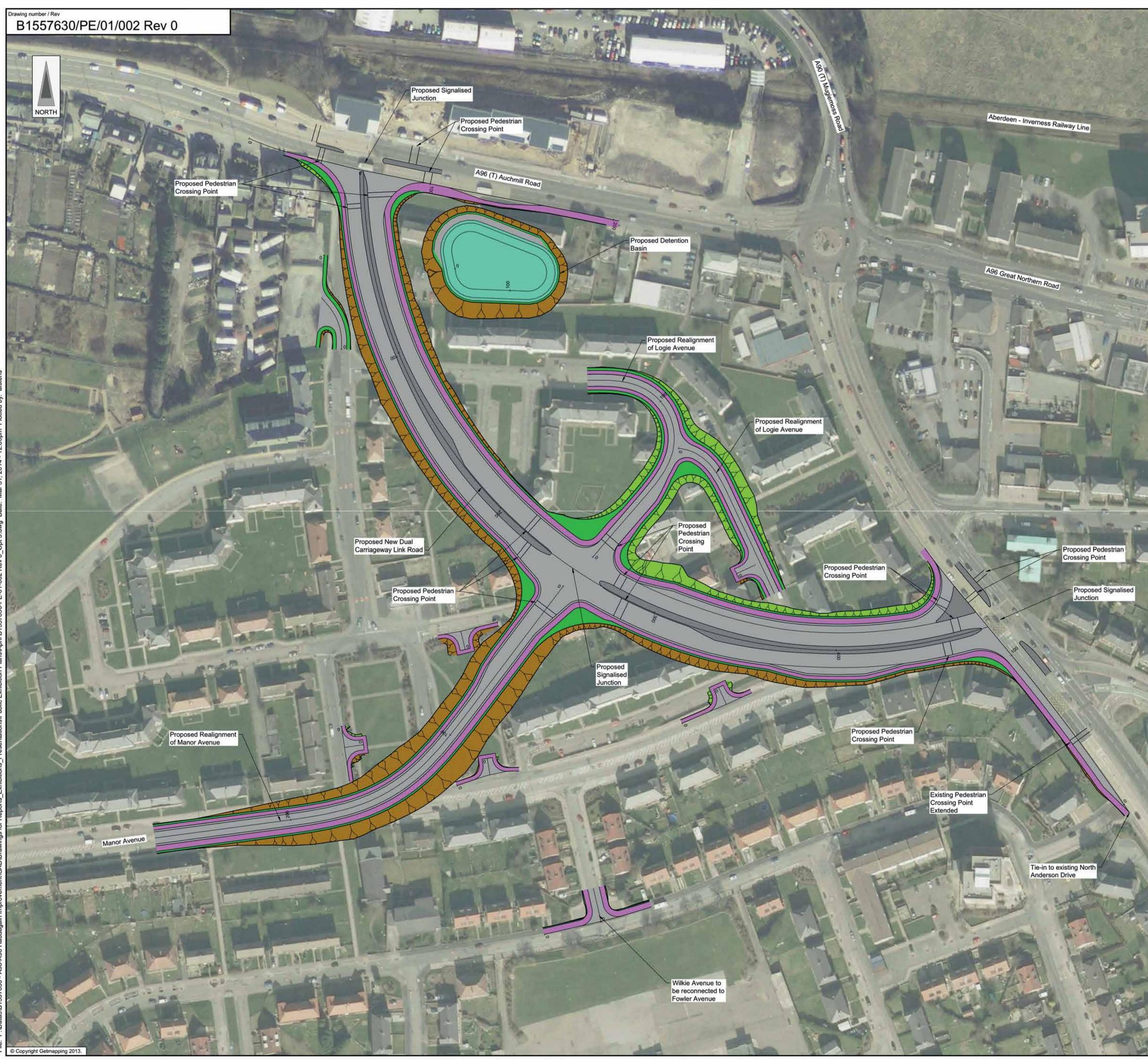
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ose	 Mugiemoss Road Rail Bridge would be widened
oject	 New footways and/or cycleways would provided close to the junction
und le the	• Traffic signals at the crossroads would include pedestrian crossings.





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Option 5 new dual carriageway link road

Option 5 would include the following:

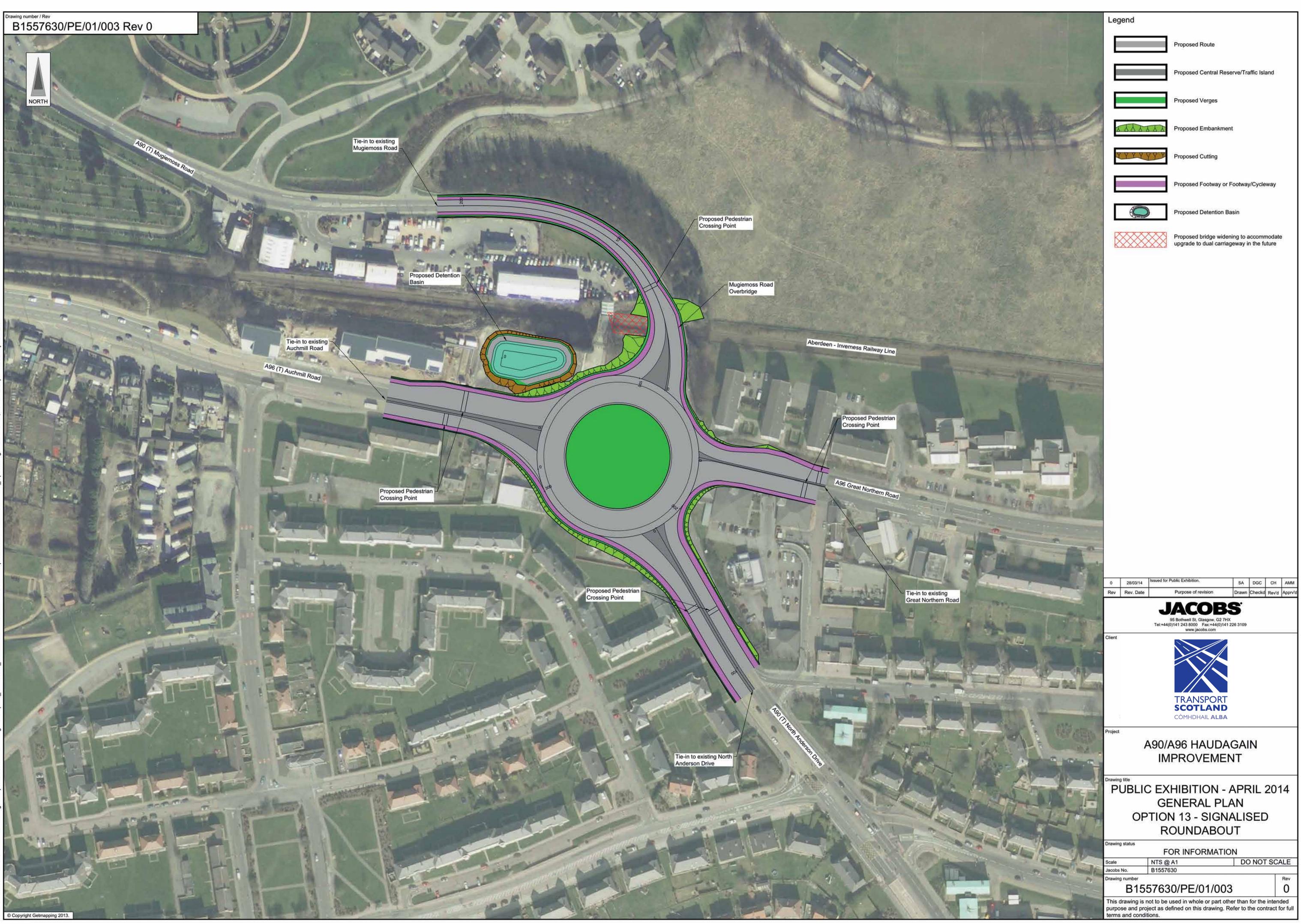
- New dual carriageway link road approximately 500 metres in length
- Three new signal-controlled junctions would connect the new link road to the existing No works are proposed at the existing Haudagain roundabout as part of Option 5 road network
- A detention basin to store and treat surface Manor Avenue would be realigned to tie-in to the new link road water run-off from the road is proposed to the south of Auchmill Road
- Logie Avenue would be realigned to tie-in to the new link road
- Logie Place would be closed and stopped up at its eastern extent
- Logie Terrace would be closed and stopped up at its southern extent
- Manor Terrace would be closed and stopped up

A new junction would connect Wilkie **Avenue to Fowler Avenue to maintain** access to Manor Avenue.

Other features:

- New footways and/or cycleways are proposed next to the new link road and **Manor Avenue**
- **Traffic signals would include pedestrian** crossings.





Option 13 signalised roundabout

Option 13 would include the following:

- Existing roundabout would be upgraded with a larger signalised roundabout
- A90(T) Mugiemoss Road would be widened to provide two lanes in each direction close to the roundabout
- **A96 Great Northern Road westbound** carriageway would be widened in the vicinity of the new roundabout
- **A90(T)** North Anderson Drive northbound carriageway would be widened close to the new roundabout
- A96(T) Auchmill Road eastbound carriageway widened to provide an additional lane on the approach to the new roundabout.

Other features:

- A detention basin to store and treat surface water run-off from the road would be located to the north-west of the roundabout
- **Mugiemoss Road Rail Bridge would be** widened
- New footways and cycleways would be provided close to the roundabout
- Traffic signals at the roundabout would include pedestrian crossings.







Summary of engineering and economic assessment

Details	Option 4	Option 5	Option I3
Road construction	770 metres of mainline carriageway (online)	480 metres mainline and 510 metres of side roads	820 metres of mainli carriageway (online)
Junction	Upgrade existing Haudagain junction	Three signalised junctions	Upgrade existing Had junction
Major structural works	Widening required at Mugiemoss Road Rail Bridge	None	Widening required a Mugiemoss Road Ra Bridge
Non motorised user (NMU) facilities	As per existing	New shared footway / cycleway next to new link road and Manor Avenue	As per existing
Constructability	Significant disruption to road users predicted	Minimal disruption to road users predicted	Significant disruption road users predicted
Value for money	Very high value for money	Very high value for money	Medium value for mo



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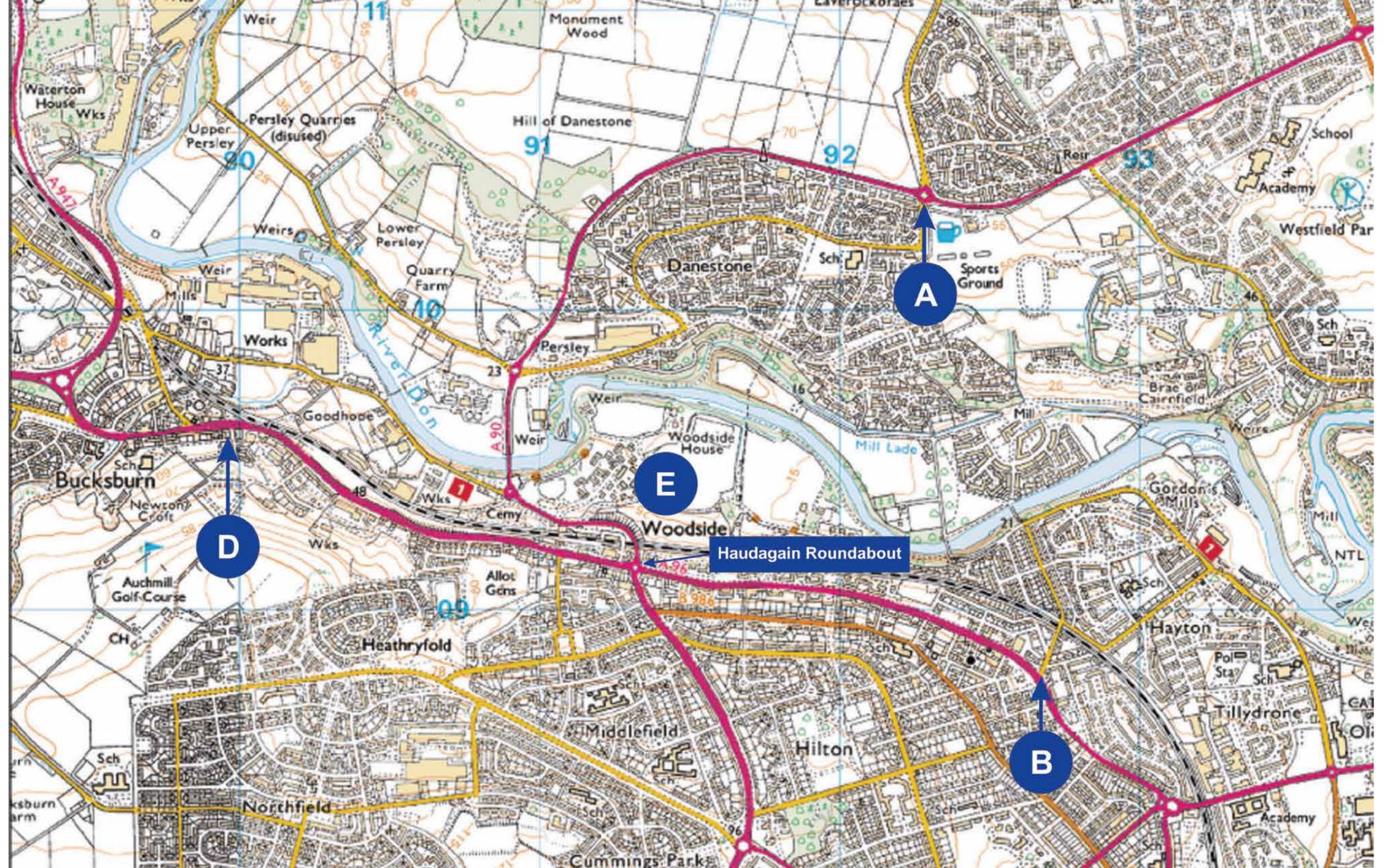
Summary of traffic assessment

The assessment of the junction's performance considered whether the objective to improve and maintain 2004 journey times until 2033 would be met.

Journey times

Locations A, B, C and D shown below are the start and end points of the journey time routes. Location E is Haudagain junction through which all journey time routes pass, except for Option 5 where south to west and west to south movements travel via the new link road.







Total average journey times for all traffic movements through Haudagain in minutes for Options 4, 5 and 13 are provided below.

	Period	Base Year (2004)	Base Year (2018)	Base Year (2033)
Existing	AM	70.5	57.7	129.5
roundabout	PM	115	55.6	180.4
Option 4	AM		66.8	96.0
Option 4	PM		75.8	136.3
Option 5	AM		59.4	71.8
Option 5	PM		58.9	87.8
Option 12	AM		66.4	149.1
Option I3	PM		73.0	251.2

Environmental constraints

Consultations and studies allowed environmental constraints to be identified within the study area. Potential environmental impacts and mitigation were considered to ensure protection of the environment

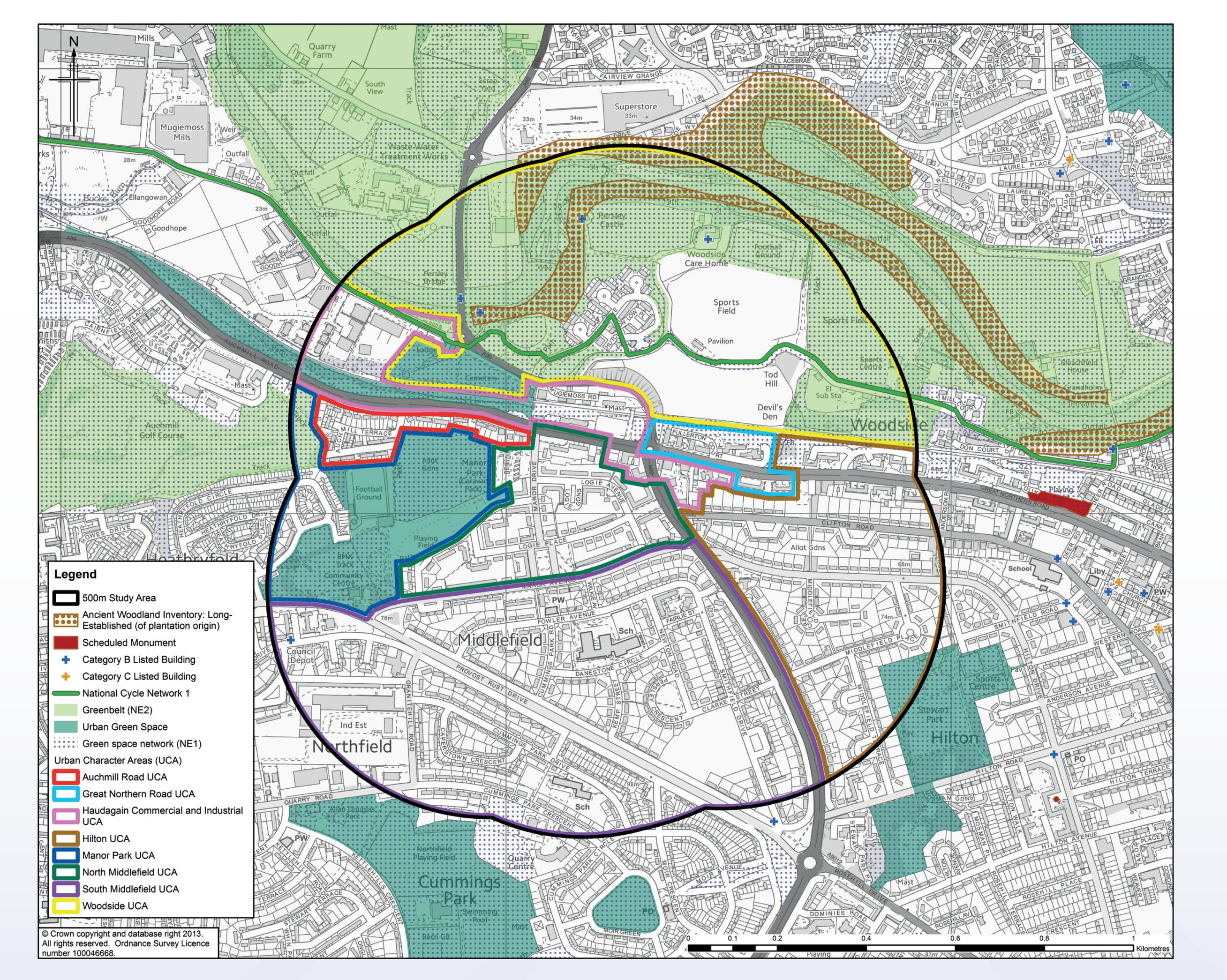


Constraints identified include:

- Residential and commercial properties
- Pedestrian/cycle networks
- Listed buildings



- Long established woodland
- Green space network
- Urban green space
- Green belt
- Urban Character Area area of distinct and recognisable urban character.



Summary of environmental assessment

Topic area	Option 4	Option 5	Option I3
Compunity and private assets	• Demolition of 17 residential / commercial premises, garden land- take from a further 11 residential properties and car park space from two commercial properties.	 Demolition of 131 residential / community premises and garden land-take from a further 108 residential properties. 	 Demolition of 16 residential / community / commercial premises, garden land-take from 43 residential properties and car park space from two commercial properties.
Noise and vibration	 Potential for significant noise impacts on receptors such as residential properties and community facilities during construction and operation. 	 Potential for significant noise impacts on receptors such as residential properties and community facilities during construction and operation. Fewest adversely affected receptors on scheme opening and most receptors anticipated to experience reduced noise levels. 	 Potential for significant noise impacts on receptors such as residential properties and community facilities during construction and operation.
Landscape and visual	 Direct landscape impacts on four urban character areas and significant visual impacts on two residential built receptors and a cycle route. 	 Direct landscape impacts on three urban character areas and significant visual impacts on 19 residential built receptors and a caravan park. 	 Direct impacts on three urban character areas and significant visual impacts on five residential built receptors.
Geology and soils	 Negligible to slight/moderate geology, contaminated land and groundwater Impacts. Moderate surface water impacts. 	 Negligible to slight/moderate geology, contaminated land, groundwater and surface water impacts. 	 Negligible to slight/moderate geology, contaminated land and groundwater Impacts. Moderate surface water impacts.

No significant residual impacts were identified for the following assessment categories:

- Ecology
- Air quality
- Materials (resources and waste)
- Cultural heritage
- Road drainage and the water environment
- Effects on all travellers (vehicle travellers, pedestrians and cyclists).



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Preferred option

Option 5 remains the preferred route for the A90/A96 Haudagain Improvement scheme.

The new dual carriageway link road would:

- **Provide the best operational performance** in terms of journey times, reducing congestion and improving journey time reliability at Haudagain
- **Reduce the risk of transport related** ٠ accidents by reducing congestion and reducing driver frustration
- Cater for socially inclusive and healthy transport modes e.g. walking and cycling
- Provide safe and efficient walking routes and crossing points for pedestrians and cyclists
- Cater for effective access to the Logie / Manor regeneration area at Middlefield.





What happens next?

Key programme dates:

- Completion of preferred option design and assessment - summer 2015
- **Publication of the Draft Orders and** • **Environmental Statement – summer 2015**
- **Preparation of construction stage tender** documents – summer 2017
- Land acquisition early 2018
- **Anticipated construction start** spring 2018.

We welcome your comments and feedback. Please take your time to consider the information presented and provide any feedback you may have on the feedback form provided by 6 June 2014.



For further information on the Haudagain Improvement scheme please visit the Transport Scotland website: www.transportscotland.gov.uk/road/projects/A90-A96-Haudagain-Improvement

Further information on Aberdeen City Council's Middlefield Regeneration project is available from John Quinn | Telephone: 01224 439 209 | Email: jquinn@aberdeencity.gov.uk





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