



**RESIDUAL DESIGN HAZARDS**  
 (The following information has been collected from Preconstruction Information and the AmeyArup CDM Hazard Management Process.)

- LEGEND**
- Site of Special Scientific Interest (SSSI)
  - Inventory of Gardens and Designed Landscapes
  - Significant Environmental Issues
  - Scheduled Monuments
  - Inventory of Historic Battlefields
  - Category A Listed Building
- Environmental appraisal impact**
- Major Adverse Impact alignment section
  - Moderate Adverse Impact alignment section
  - Minor Adverse Impact alignment section

P02	Final	AC	JC	FM	NH	AF
		17/04/18	18/04/18	18/04/18	18/04/18	18/04/18
P01	Draft	AC	JC	FM	NH	AF
		10/04/2018	11/04/2018	11/04/2018	12/04/2018	13/04/2018
Revision	Revision details					
	Created	Checked	Reviewed	Approved	Authorised	
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	

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Project Name  
**A96 Dualling: East of Huntly to Aberdeen**

Drawing Title  
**First Fix Environmental Appraisal of Alignment D03**

Project Ref. No	Stage	Scale	@A1
250002-92	Stage 2	1:25,000	
		Dimensions	

Drawing Number	Project	Originator	Volume
A96PEA - AMAR - EGN - CD			
Location	Type	Role	Number

Suitability	Suitability Description	Revision
S4	Fit for Stage Approval	P02

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Alignment	Landscape and visual impact	Landscape and visual commentary	Water	Water commentary	Ecology	Ecology commentary	People and community	People and community commentary	Noise	Noise commentary	Air quality	Air quality commentary	Cultural heritage	Cultural heritage commentary	Plans and policies	Plans and policies commentary	Soil and geology	Soil and geology commentary
003-001		Moderate adverse effects occur due to earthworks, loss of woodland and ancient woodland, and potential impacts on setting of Daviot and cultural heritage. Major adverse effects are predicted due to earthworks of more than 15m in depth, introduction of a new structure across the River Urie, and loss of ancient woodland. Due to the earthworks, loss of woodland and impacts on setting of Williamston House Garden and Designated Landscape (GDL), and potential impacts on the setting of a scheduled monument and Daviot, the overall assessment for this alignment is Moderate adverse.		No crossings of extensive floodplain. A number of watercourse crossings of floodplain <100m wide (minor adverse). Potential requirement for river realignment and potential active morphology at crossing of River Urie at ch.500m (moderate adverse). There may be limited scope for realignment at this location due to confined nature of the floodplain.		Cutting through a number of minor watercourses. It is assumed that no realignment of the watercourses is needed. Fragments an area of ancient woodland which forms a habitat connection across the current A96 to Wartle Moss Site of Special Scientific Interest (SSSI). The northern end of all options cuts into Fouldland Local Nature Conservation Site (LNCS) and ancient woodland mosaic.		A total of three properties lie within the alignment. Residential properties: The Old School on the A920 Hillbrae Property Barn - Potts of Bayne Prime and non prime agricultural land located along section, and the alignment passes through areas of class 3.1 land. There are no class 1 or 2 areas.		There is minor or negligible potential change to level of the existing noise climate at Old Rayne, Whiteford and Colpy, resulting from the introduction of new roads and/or rerouting of existing traffic. Minor increase to the noise climate may take place upon communities with a relative medium population count. There are Local Development Plan (LDP) allocations in the area which are potentially affected by the scheme including OP1: Land to the south east Allocation: eight homes.		The baseline alignment between Hurtle and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area. Alignment is <200m from Melkie Wartle and Daviot settlement areas.		The alignment would run between the locations of Loanhead stone circle and enclosed cremation cemetery (Scheduled Monument - SM90202 and HES Property in Cairn) New Craig stone circle (SM12170) and New Craig cupmarked boulder (SM12154) and would have a likely significant effect on their settings. The proximity of the alignment to Category A Listed Building Culsaimond Old Parish Church (LB2960) means that a significant impact on its setting is likely. Similarly, the alignment runs within 150m of Category B Listed Warthill House (LB16018) and is likely to have a significant impact on its setting. Other assets whose settings may be impacted by the alignment are Mummer's Reiv, cairn (SM11629), Cat Cairn, cairn 255m south west of Smiddyhowe (SM12170), Woodside, hut circles 300m west of (SM11513), Black Cairn, cairn 990m north west of Tocherford (SM12172), Mounie Castle (LB2793), Williamston House Inventory GDL and Williamston House (LB2964), Inventory Historic Battlefield of the Battle of Harlaw, Inventory Historic Battlefield of the Battle of Barra, and Freefield House (LB16001).		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Many small areas of prime agricultural land, and contaminated land (railway crosses alignment at one point) are present.
003-002		Moderate adverse impacts occur due to earthworks of 5-15m in depth, and a moderate loss of woodland. Major adverse effects are due to earthworks of more than 15m in depth, the introduction of a new structure across the River Urie, loss of ancient woodland at Warthill House and potential impacts on setting of Williamston House GDL and a scheduled monument. Due to these factors the overall assessment for this alignment is Moderate adverse.		Route crosses the extensive floodplain of the Bonnyton Burn (ch.3600m) and is not perpendicular to flow (major adverse). Potential requirement for river realignment and potential active morphology at crossing of River Urie at ch.300m (moderate adverse). There may be limited scope for realignment at this location due to confined nature of the floodplain.		Cuts through a number of minor watercourses. It is assumed that no realignment of the watercourses is needed. Cuts through Wartle Moss LNCS, ancient woodland and fragments habitat corridor across the current A96 route. Cuts through the Cairn Hill LNCS. The northern end of all options cuts into Fouldland LNCS and ancient woodland mosaic.		A total of 10 properties lie within the alignment. Residential property: The Old School Hillbrae Viewfield Hether Tacher Collichill Cottage Bennachie View Moss-side of Parkes - outbuilding New Craig Courtyards/Wicketlap Prime and non prime agricultural land located along section, and the alignment passes through areas of class 3.1 land. There are no class 1 or 2 areas.		Potential noticeable decrease to level of current noise climate at Old Rayne, Whiteford and Colpy, resulting from rerouting traffic via new roads. The increase to noise from the new roads, potentially impacts communities with a relative medium population count, which are located close to the new roads.		The baseline alignment between Hurtle and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area.		The alignment would run to the immediate east of New Craig stone circle (SM12170) and New Craig cupmarked boulder (SM12154) and would have a likely significant effect on their settings. Its proximity to Loanhead stone circle (SM90202) would also likely result in a significant impact on its setting. The proximity of the alignment to Category A Listed Building Culsaimond Old Parish Church (LB2960) means that a significant impact on its setting is likely. Similarly, the alignment runs within 150m of Category B Listed Warthill House (LB16018) and is likely to have a significant impact on its setting. Other assets whose settings may be impacted by the alignment are Mummer's Reiv, cairn (SM11629), Cat Cairn, cairn 255m south west of Smiddyhowe (SM12170), Woodside, hut circles 300m west of (SM11513), Black Cairn, cairn 990m north west of Tocherford (SM12172), Mounie Castle (LB2793), Williamston House Inventory GDL and Williamston House (LB2964), Inventory Historic Battlefield of the Battle of Harlaw, Inventory Historic Battlefield of the Battle of Barra, Fingask House (LB2797) and Freefield House (LB16001).		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Two areas of peat (200m and 275m long). Many small areas of prime agricultural land. Contaminated land (railway crosses alignment at one point) and small area of mineral resources are present.
003-003		Major adverse effects occur due to the introduction of a new structure and earthworks of more than 15m in depth on the north end, loss of ancient woodland at Warthill House and at Mounie Castle. Moderate adverse effects are predicted due to earthworks and loss of woodland. The overall assessment for the alignment is Moderate adverse.		No crossings of extensive floodplain. A number of watercourse crossings of floodplain <100m wide (minor adverse). Potential requirement for river realignment and potential active morphology at crossing of River Urie at ch.500m (moderate adverse). There may be limited scope for realignment at this location due to confined nature of the floodplain.		Cuts through a number of minor watercourses. It is assumed that no realignment of the watercourses is needed. Cuts through Wartle Moss LNCS, ancient woodland and fragments habitat corridor across the current A96 route. Cuts through the Cairn Hill LNCS. The northern end of all options cuts into Fouldland LNCS and ancient woodland mosaic.		A total of five properties lie within the alignment. Residential properties: Kirkton Farm (3 buildings) Stavhuise xi building adjacent to Stavhuise Barrun House Beaufield House Greenford Cottage Business properties: Farm Barn at Mid Tacher Inverurie Skip Hire, Causewayfold, Melkie Wartle Prime and non prime agricultural land located along section, and the alignment passes through areas of class 3.1 land. There are no class 1 or 2 areas.		Potential noticeable decrease to level of current noise climate at Old Rayne, Whiteford and Colpy, resulting from rerouting traffic via new roads. The increase to noise from the new roads, potentially impacts communities with a relative medium population count, which are located close to the new roads.		The baseline alignment between Hurtle and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area. Alignments 003 is within 200m of Wartle Moss SSSI which is fen habitat with Sphagnum and Juncus species sensitive to nitrogen deposition.		There is one SM, Mummer's Reiv, cairn (SM11629), located within the alignment, but it is assumed that adjustment of the alignment would enable it to be preserved in situ. The alignment would pass within the immediate vicinity of Mummer's Reiv cairn (SM11629) and would have a significant effect on its setting. Similarly the proximity of the alignment to Category A Listed Building Culsaimond Old Parish Church (LB2960) means that a significant impact on its setting is likely. The alignment would cut through the remnants of the non-inventory GDL which forms the setting for Mounie Castle (LB2793) and would have a likely significant effect on its setting. An impact on the setting of the other Category B Listed buildings within the GDL may also occur. The alignment would be visible in the key view to the south-east from Fingask House (LB2797) and may impact upon its setting. The alignment would also cross the non-inventory GDL which forms the setting of Warthill House (LB16018) having a potentially significant effect upon the setting of the house. The proximity of the alignment to the Inventory Historic Battlefield of the Battle of Barra means that there may be a significant effect upon the setting of the battlefield. Other assets whose settings may be impacted by the alignment are Cat Cairn, cairn 255m south west of Smiddyhowe (SM12170), Woodside, hut circles 300m west of (SM11513), Black Cairn, cairn 990m north west of Tocherford (SM12172), Mounie Castle (LB2793), Williamston House Inventory GDL and Williamston House (LB2964), Inventory Historic Battlefield of the Battle of Harlaw, and Freefield House (LB16001).		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Several areas of peat, up to 400m in size. Large stretches of prime agricultural land, contaminated land (historic railway, fuel storage), and small area of mineral resources are all present.
003-004		Moderate adverse impacts occur due to earthworks of 5-15m in depth, loss of woodland and potential impacts on visual amenity in the north of the alignment. Major adverse effects are predicted due to earthworks of more than 15m in depth, the introduction of a new large structure across the river Urie and loss of ancient woodland. The overall assessment of the alignment is Moderate adverse.		No crossings of extensive floodplain. A number of watercourse crossings of floodplain <100m wide (minor adverse). Potential requirement for river realignment and potential active morphology at crossing of River Urie at ch.500m (moderate adverse). There may be limited scope for realignment at this location due to confined nature of the floodplain.		Cuts through the Cairn Hill LNCS. The northern end of all options cuts into Fouldland LNCS and ancient woodland mosaic. It is assumed that no realignment of the watercourses is needed.		A total of eight properties lie within the alignment. Residential properties: Kirkton Farm (3) Barrun House Gillhill Willow Cottage Bioscience House Saphock Cottage Business property Drum Inn Drum Garage and Petrol Station Prime and non prime agricultural land located along section, and the alignment passes through class 2 and 3.1 areas. There are no class 1 areas.		Potential noticeable decrease to level of current noise climate at Old Rayne, Whiteford and Colpy, resulting from rerouting traffic via new roads. The increase to noise from the new roads, potentially impacts communities with a relative medium population count, which are located close to the new roads.		The baseline alignment between Hurtle and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area. Alignments 004 is within 200m of Wartle Moss SSSI which is fen habitat with Sphagnum and Juncus species sensitive to nitrogen deposition.		There is one SM, Mummer's Reiv, cairn (SM11629), located within the alignment, but it is assumed that adjusting the alignment would enable it to be preserved in situ. The alignment would pass within the immediate vicinity of Mummer's Reiv cairn (SM11629) and would have a significant effect on its setting. The proximity of the alignment to Category A Listed Building Culsaimond Old Parish Church (LB2960) means that a significant impact on its setting is likely. The proximity of the alignment to the Inventory Historic Battlefield of the Battle of Barra means that there may be a significant effect upon the setting of the battlefield. The alignment would be visible in the key view to the south-east from Fingask House (LB2797) and may impact upon its setting. The alignment would also cross the non-inventory GDL which forms the setting of Warthill House (LB16018) having a potentially significant effect upon the setting of the house. Other assets whose settings may be impacted by the alignment are Cat Cairn, cairn 255m south west of Smiddyhowe (SM12170), Woodside, hut circles 300m west of (SM11513), Black Cairn, cairn 990m north west of Tocherford (SM12172), Hillhead of Barra, standing stone 240m west of (SM12393), The Hill of Barra, fort (SM1897), Four Braehed Cottages, standing stone 195m south east of (SM12112), New Craig, cupmarked boulder 230m west north-west of (SM12154), Loanhead, stone circle and enclosed cremation cemetery (SM90202), Barra Castle (LB2821), Williamston House Inventory GDL and Williamston House (LB2964), Inventory Historic Battlefield of the Battle of Harlaw.		Route entirely outwith settlement boundaries and LDP allocations and committed development. Route is immediately adjacent to a small scale committed housing development.		Peat is found in 750m of the alignment. Large stretches of prime agricultural land are present. Contaminated land (railway, spoil heap) and a small area of mineral resources are also present.