



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

- LEGEND**
- Significant Environmental Issues
 - Wildcat Priority Areas
 - Site of Special Scientific Interest (SSSI)
 - Inventory of Gardens and Designed Landscapes
 - 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	
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Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
First Fix Environmental Appraisal of Alignment CN01

Project Ref. No. 250002-92	Stage Stage 2	Scale : 1:35,000 Dimensions :	@A1
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Drawing Number	Project	Originator	Volume
A96PEA - AMAR - EGN - CC	- DR - EN - 000001		
Location	Type	Role	Number

Suitability S4	Suitability Description Fit for Stage Approval	Revision 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
CN01-001		The appraisal identifies 16km of the alignments as having Major adverse effects, mainly due to large scale of earthworks and loss of woodland. The southern 8.5 km of the alignment lies within the Bernache Special Landscape Area (SLA), between 21+250 and 29+750. Moderate effects are predicted for approximately 9km of the alignment, mostly along the central section. Due to these factors the overall assessment is Major adverse.		Route crosses extensive floodplain of the River Bogie (ch.500m) and is not perpendicular to flow (major adverse). Potential for active morphology at the three crossings of the River Bogie (moderate adverse). Potential for river realignment where route encroaches on the Gadie Burn (ch.21750m) (moderate adverse).		Ecological receptors and constraints include the wildcat priority area, one local designated site (Local Nature Conservation Site), one sensitive area (for badger), two areas of ancient woodland, and two water crossings.		Insch Airfield partially crosses the alignment. It is utilised by Grampian Microlight and Flying Club. The alignment crosses part of the former Waulmill Church, now converted to a residential property. Alignment passes through areas of agricultural land of class 3.1 west and south of Auchleven. No Class 1 or 2 land is present.		Potential noticeable increase to level of current noise climate as a result of introduction of new roads. This potential increase is identified upon communities with a relative high population count, including Huntly and small communities located close to proposed alignment.		The baseline alignment between Huntly and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area. Alignment passes <200m from Garty and Auchleven settlement areas so is classed as minor beneficial.		The southern end of the alignment passes through an area with numerous Scheduled Monuments (SM) of prehistoric date whose settings are inter-related, with views between many of the hill forts/ settlements forming a key part of their setting. This means that this whole area is sensitive to change. Also at the southern end, the alignment passes in close proximity to Lickleyhead Castle Category A Listed Building (LB16234) and may have an impact on its setting. The settings of Hamhill Castle Category A Listed Building (LB16132) and Leslie Castle Category B Listed Building (LB9239) are also vulnerable to change. Further north the alignment passes in very close proximity to Armlair stone circle (SM3) this is likely to result in significant impacts on its setting.		The route does not pass through any LDP allocations or settlements, or committed developments.		Large stretch of prime agricultural land (1375m), but this is a small proportion of overall alignment length. Contaminated land (railway), and small areas of mineral resources, are also present.
CN01-002		The appraisal identifies long sections of the alignment for which Major adverse effects are predicted. These are due to large scale earthworks, including cuttings of up to 50m and potentially the introduction of eight new structures, four of which cross the enclosed valley of Strathbogie. The alignment will impact upon the setting of Leith Hall Garden and Designed Landscape (GDL). To the east of Gadie Burn, a new structure, a cutting of more than 45m in depth at Tillymuick, loss of woodland and ancient woodland will cause major impacts on Bernache SLA. Moderate effects are predicted for some sections of the alignment, mostly due to earthworks of 5-15m. These appear generally linked to sections of larger earthworks. The overall assessment of the alignment is therefore Major adverse.		Route crosses extensive floodplain of the River Bogie (ch.450m) and is not perpendicular to flow (major adverse). Potential for active morphology at the three crossings of the River Bogie and the crossing of the Gadie Burn at ch.23100m (moderate adverse). Potential for river realignment where route encroaches onto the River Bogie at ch.2250m (moderate adverse).		Ecological receptors and constraints include the wildcat priority area, one local designated site, one sensitive area (for badger), one area of ancient woodland, and five water crossings.		The alignment crosses two residential properties, Braehead House and East Newton. Alignment passes through areas of class 3.2 and higher agricultural land. No Class 1, 2, or 3.1.		Potential noticeable increase to level of current noise climate as a result of introduction of new roads. This potential increase is identified upon communities with a relative high population count, including Huntly and small communities located close to proposed alignment.		The baseline alignment between Huntly and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area.		The southern end of the alignment passes through an area with numerous SMs of prehistoric date whose settings are inter-related, with views between many of the hill forts/ settlements forming a key part of their setting. This means that this whole area is sensitive to change. Further north the alignment passes through the non-inventory GDL with the potential for Category B Listed Wardhouse (LB9192). The alignment also passes close to a viewpoint which overlooks the Leith Hall Inventory GDL (and forms a key part of its setting). This is a key concern with the use of this alignment.		The route does not pass through any LDP allocations or settlements, or committed developments.		Small areas of peat, contaminated land (railway), and mineral resources are present.
CN01-003		The appraisal identifies 10km of Major adverse effects within the high sensitivity landscapes of Strathbogie due to the construction of a number of crossings across the river, a structure of 5m length and up to 10m in height, and impacts on the setting of Leith Hall. A cutting of 50m in depth and loss of woodland along the 5.5km of alignment within Bernache SLA. Moderate adverse effects are predicted for sections of earthworks of 5-15m, and also due to loss of woodland. The overall assessment of the alignment is Major adverse.		Route crosses the extensive floodplain of the River Bogie seven times in the first 5km. These crossings are not perpendicular to flow (major adverse) and in many places the route encroaches on the channel (potential for river realignment), and there is potential for active morphology (moderate adverse). This represents an unacceptable environmental impact on the River Bogie and this route should not be taken forward. Route crosses the extensive floodplain of the Kirkney Water (ch.5850m) and is not perpendicular to flow (major adverse). Potential for active morphology at the crossing of the Gadie Burn at ch.23500m (moderate adverse).		Ecological receptors and constraints include the wildcat priority area, one local designated site, one sensitive area (for badger), two areas of ancient woodland, and two water crossings.		The alignment crosses three residential properties, Mill of Greenhaugh, south of Huntly; Bogie View in Bridgend; and Cappaghmore to the south of Bridgend. Alignment passes through areas of 3.1 land north and east of Auchleven. No Class 1 or 2.		Potential noticeable increase to level of current noise climate as a result of introduction of new roads. This potential increase is identified upon communities with a relative high population count, including Huntly and small communities located close to proposed alignment. There is also a Local Development Plan (LDP) allocation at Garty named OPI for Land adjacent to Railway and an allocation of five homes.		The baseline alignment between Huntly and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area. Alignment passes <200m from Auchleven settlement area so is classed as minor beneficial.		The southern end of the alignment passes through an area with numerous SMs of prehistoric date whose settings are inter-related, with views between many of the hill forts/ settlements forming a key part of their setting. This means that this whole area is sensitive to change. Further north the alignment passes through the non-inventory GDL with forms the setting for Category B Listed Caldcrain House (LB9204), and is likely to result in a significant impact on the LB's setting. Adjustments to the alignment may be able to reduce the impact on the setting of Caldcrain House.		The route does not pass through any LDP allocations or settlements, or committed development site.		Small area of peat, small areas of prime agricultural land, contaminated land (railway, mill), small areas of mineral resources, are all present.
CN01-004		The appraisal identifies long sections of the alignment as having Major adverse effects, being mainly due to large scale earthworks of >15m depth and height and to the introduction of new structures, the loss of woodland and ancient woodland. Direct impacts and loss of woodland would occur at Leith Hall GDL. Bernache SLA is affected by cuttings of more than 15m at Tillymuick Hill, introduction of a new structure across the Gadie Burn and loss of woodland and ancient woodland. Moderate adverse effects are due to earthworks of 5-15m, loss of woodland, and impacts on visual amenity at Garty and Auchleven. The overall assessment of the alignment is therefore Major adverse.		Route crosses the extensive floodplain of Priest's Water (ch.3800m) and is approximately perpendicular to flow (moderate adverse). Potential for active morphology at crossings of Priest's Water, Kirkney Water, River Bogie and Gadie Burn (moderate adverse).		Ecological receptors and constraints include the wildcat priority area, one local designated site, one sensitive area (for badger), two areas of ancient woodland, and two water crossings.		The alignment crosses residential properties, Burnend, south of Huntly, and Colthie Mill House, south east of Bridgend. Alignment passes through areas of 3.1 class land north and east of Auchleven. No Class 1 or 2.		Potential noticeable increase to level of current noise climate as a result of introduction of new roads. This potential increase is identified upon communities with a relative high population count, including Huntly, Gartoich and small communities located close to proposed alignment. There is also a LDP allocation at Garty named OPI for Land adjacent to Railway and an allocation of five homes.		The baseline alignment between Huntly and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area. Alignment passes <200m from Kennethmont settlement area and the Ardmore Distillery so is classed as minor beneficial.		The use of this alignment would result in a direct impact upon the Leith Hall Inventory GDL. The use of this alignment would also result in a likely significant impact upon the setting of Leith Hall GDL and on Category A Listed Leith Hall which lies at its centre. The southern end of the alignment passes through an area with numerous SMs of prehistoric date whose settings are inter-related, with views between many of the hill forts/ settlements forming a key part of their setting. This means that this whole area is sensitive to change. The alignment passes through the non-inventory GDL that forms the setting of Category B Listed Caldcrain House (LB9204), and is likely to result in a significant impact on the LB's setting. Adjusting the position of the alignment may be able to reduce the impact on the setting of Caldcrain House.		The route does not pass through any LDP allocations or settlements, or committed developments. It does pass in close proximity to a number of committed development sites.		Small areas of prime agricultural land, contaminated land (railway), and small areas of mineral resources are all present.