



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

- LEGEND**
- Significant environmental issues
 - 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	
	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 OLC

Project Ref. No.	Stage	Scale	@A1
250002-92	Stage 2	1:20,000	
Dimensions :			

Drawing Number	Project	Originator	Volume
A96PEA - AMAR - EGN - CB			
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
OLC-001		While there is a potential Major adverse impact at Willamston House Garden and Designed Landscape (GDL), the majority of impacts identified in the appraisal are Moderate. The alignment is predominantly online.		Route crosses extensive floodplain of Gadie Burn (ch. 3700m) and is not perpendicular to flow (major adverse). Route encroaches onto extensive floodplain of the River Urie without crossing it at several locations. Potential for river realignment of River Urie at ch.2000m and ch.2500m (moderate adverse). Potential for active morphology at crossing of Shevock Burn (ch.4500m) (moderate adverse).		A number of minor watercourse crossings and encroachment into a sensitive area alongside the current A96 alignment (an area which currently forms a habitat corridor). The route is constantly in and out of areas of prime land along its length. Only a short section between Caden Farm and Pitcaple Castle is completely free from prime land.		Garden centre (Kellockbank). There are a few areas where scattered properties and farms fall within the alignment. The route is constantly in and out of areas of prime land along its length. Only a short section between Caden Farm and Pitcaple Castle is completely free from prime land.		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 medium population count, including Old Rayne and receptors close to existing A96. Additionally, there are LDs which could be potentially affected such as: Old Rayne - OP2; Barredylkes Allocation: 30 homes, business use and retail use & OP1; East of School Allocation: 10 homes.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m.		The alignment would likely affect the settings of Wester Shevock cairn (SM12115), Willamston House (LB2964) and GDL, and Newton House (LB2962) and GDL. The alignment cuts through the edge of the non-inventory GDL which forms the setting of Category A Listed Pitcaple Castle (LB2830), and may have a significant effect on its setting.		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Large stretches of prime agricultural land. Contaminated Land (railway, fuel storage, mills). Large areas of mineral resources.
OLC-002		The appraisal has not identified any Major adverse impacts. The overall rating is therefore Moderate adverse.		Route crosses extensive floodplain of the River Urie at ch.6350m and ch.13100m and these crossings are not perpendicular to flow (major adverse). Potential for river realignment of River Urie at ch.12500m (moderate adverse). Potential for active morphology at crossing of Shevock Burn (ch.5100m) (moderate adverse).		Crossing of the River Urie. Several minor watercourse crossings throughout. It is assumed that no realignment of the watercourses is needed. Fragmentation of several larger blocks of ancient woodland within the area around the River Urie, causing a greater level of impact to this ecological habitat mosaic. Further crossing through more blocks of ancient woodland and several watercourse crossings which form part of a habitat corridor across the current A96.		Whole area of protected reserve land (LDP Aberdeenshire Council) within alignment at Whiteford Old School. There are a few areas where scattered properties and farms fall within the alignment. Large sections of the route are within prime land. Lodge Durmo Primary School located directly adjacent to alignment.		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 Old Rayne and Whiteford. Additionally, there are LDs with the potential to be affected including Old Rayne - OP2 (Barredylkes Allocation: 30 homes, business use and retail use) and OP1 - East of School Allocation: 10 homes.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m/km.		The alignment intersects with the western edge of Durmo Roman temporary camp Scheduled Monument (SM4123). It is assumed that a direct impact can be avoided through adjusting the alignment. Nevertheless the proximity of the alignment to the temporary camp would likely cause a significant impact on its setting. The alignment would be visible in the key view (to the south-east) from Candel Hill stone circle (SM13). The alignment cuts through the edge of the non-inventory GDL which forms the setting of Category A Listed Pitcaple Castle (LB2830), and may have a significant effect on its setting. The settings of Pitscurry, cairn 420m N of (SM12302), Willamston House (LB2964) and GDL, and Newton House (LB2962) and GDL, and the Inventory Historic Battlefield of Battle of Harlaw, and Logie House Hotel (LB2857) are all likely to be impacted by the use of this alignment.		Route passes through Pitcaple/Whiteford settlement and LDP allocated protected green space. Route passes through small scale committed housing development.		Large stretches of prime agricultural land. Contaminated Land (railway). Mineral resources.
OLC-002b		The loss of ancient woodland, introduction of new structures and impacts on residential receptors lead to an overall impact that will be major adverse.		Route crosses extensive floodplain of the River Urie (ch.1450m) and is not perpendicular to flow (major adverse).		Crosses the River Urie and impacts three large blocks of ancient woodland, all of which directly contribute to a habitat corridor across the current A96. There is likely to be a cumulative adverse impact on local habitat porosity associated with cutting across two potential habitat corridors and a river which connects them.		Mill of Durmo and properties at Pitcaple within the alignment. Large proportion of alignment in prime land.		There is minor or negligible potential change to level of the existing noise climate, resulting from the introduction of new roads and/or rerouting of existing traffic. The small increase in noise is identified at communities with a relative low population count.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m/km.		The sub option cuts through the edge of the non-inventory GDL which forms the setting of Category A Listed Pitcaple Castle (LB2830), and may have a significant effect on its setting. The setting of Logie House Hotel (LB2857) is likely to be impacted by the use of this sub option.		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Large stretches of prime agricultural land. Contaminated Land (mill at one location). Mineral resources.
OLC-003		The appraisal has identified Major adverse impacts on Willamston GDL and Newton House GDL. While the overall proportion of the alignment affecting these two GDLs is relatively small, the overall rating is assessed as Major due to the importance of the GDL.		Route crosses extensive floodplain of the River Urie (ch.8800m and ch.13700m) and the Gadie Burn (ch.8800m) and these crossings are not perpendicular to flow (major adverse). Potential for river realignment of River Urie at ch.12100m (moderate adverse). Potential for active morphology at crossing of the River Urie (ch.13750m) (moderate adverse).		Several minor watercourse crossings and skimming of ancient woodland. It is assumed that no realignment of the watercourses is needed. Fragmentation of habitat corridor across current A96.		Pitcaple Environmental Project. There are scattered properties within the alignment. Majority of alignment is within prime land ch. 000- 350 ch. 750- 1750 ch. 2400- 7400 ch. 9750 to end		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 Old Rayne and Whiteford. Additionally, there are LDs with the potential to be affected including Old Rayne - OP2 (Barredylkes Allocation: 30 homes, business use and retail use) and OP1 - East of School Allocation: 10 homes.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m/km.		The alignment would have a direct impact on the north-east corner of the Newton House Inventory GDL. The alignment intersects the Inventory Historic Battlefield of the Battle of Harlaw. The alignment cuts through the edge of the non-inventory GDL which forms the setting of Category A Listed Pitcaple Castle (LB2830), and may have a significant effect on its setting. The alignment would be visible in the key view (to the south-east) from Candel Hill stone circle (SM13). The settings of Pitscurry, cairn 420m N of (SM12302), Willamston House (LB2964) and GDL, and Newton House (LB2962) and GDL, and Logie House Hotel (LB2857) are likely to be affected by the use of this alignment.		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Large stretches of prime agricultural land. Contaminated Land (railway, tanks, mills). Large areas of mineral resources.
OLC-004		Due to the potential impacts on Willamston GDL, Newton House GDL, the scale of earthworks at Hill of Knockallochie and Pitcaple and loss of woodland the overall rating is assessed as Major adverse.		Route encroaches onto extensive floodplain of the River Urie (ch.5000m) without crossing it - potential river realignment (major adverse). Route crosses extensive floodplain of the Shevock Burn (ch.440m) and is perpendicular to flow (moderate adverse). Potential for active morphology at crossing of Gadie Burn (ch.8400m).		Significant fragmentation of sensitive area, including large blocks of ancient woodland, that form a habitat connection across the current A96. The alignment cuts through Gouals Local Nature Conservation Site (LNCS) which is designated for geological reasons so has not been considered within this ecological assessment. It is assumed that no realignment of the watercourses is needed.		Garden centre (Kellockbank). Scattered properties along the alignment. Station Cottages ch13000 ch. 11250 ch. 8150 ch. 7300 ch. 6100 ch. 4500- 5000 Large cluster of property. First half of alignment within prime land ch. 000- 7350 ch. 13850 - 13150 ch. 13550- end		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 Old Rayne and Whiteford. Additionally, there are LDs with the potential to be affected including Old Rayne - OP2 (Barredylkes Allocation: 30 homes, business use and retail use) and OP1 - East of School Allocation: 10 homes.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m/km.		As much of this alignment follows the course of the existing A96 road, there is generally a reduced likelihood of impacts on the setting of heritage assets. The alignment would likely affect the settings of Pitcaple Castle (LB2830), Wester Shevock cairn (SM12115), Willamston House (LB2964) and GDL, Newton House (LB2962) and GDL, and the Inventory Historic Battlefield of the Battle of Harlaw.		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development, and immediately adjacent to Old Rayne settlement boundary.		Large stretches of prime agricultural land. Contaminated Land (railway, fuel storage, mills). Mineral resources.
OLC-005		The alignment includes very large scale earthworks at Galloway Hill, Hill of Knockallochie and Croft of Netherberton in addition to a large structure/embankment at the Gadie Burn and loss of woodland at that location. Due to these factors the overall rating is Major adverse.		Route crosses the extensive floodplain of the Gadie Burn (ch.7800m) and is not perpendicular to flow (major adverse). Potential for active morphology at the crossings of the Gadie Burn and Shevock Burn (moderate adverse). Potential for river realignment of the River Urie at ch.2550m (moderate adverse).		Several minor watercourse crossings and encroachment into several small ancient woodland blocks. It is assumed that no realignment of the watercourses is needed.		Garden centre (Kellockbank) is present within the alignment. Few scattered properties along route. First half of alignment mainly in prime agricultural land with scattered pockets along the remaining section.		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 medium population count, including Old Rayne and receptors close to existing A96.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m/km.		This alignment would be in the immediate vicinity of Mains of Balquhain stone circle (SM3961) and would be likely to cause a significant impact on its setting. The use of this alignment would likely affect the settings of Balquhain Castle (SM490), Wester Shevock cairn (SM12115), The Maiden Stone (SM425 and HES Property in Care), Harthill Castle (LB16132), Willamston House (LB2964) and GDL, Newton House (LB2962) and GDL, and the Inventory Historic Battlefield of the Battle of Harlaw.		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Large stretches of prime agricultural land. Contaminated Land (railway, mills). Small areas of mineral resources.
OLC-006		The scale of earthworks, loss of woodland and potential impact on the Maiden Stone mean the alignment is assessed as major adverse.		Route crosses the extensive floodplain of The Kellock (ch.2250m) and Gadie Burn (ch.1450m) - these crossings are not perpendicular to flow (major adverse). Potential for active morphology at the crossing of the Gadie Burn.		Several minor watercourse crossings. Fragmentation of sensitive area which currently forms a habitat corridor across the A96 and is composed of woodland and ancient woodland blocks and watercourses.		Property at start of alignment and at ch. 750. Prime agricultural land located at: ch. 900- 2100 ch. 2350- 3750 ch. 4800- 7400 ch. 8200- 8450 ch. 13450- 14100		Potential noticeable decrease to level of current noise climate at Old Rayne and receptors located at A96, resulting from rerouting traffic via new roads. The increase to noise from the new roads, potentially impacts only communities with a relative low population count.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m.		Two Scheduled Monuments Mains of Balquhain stone circle (SM3961) and The Maiden Stone cross slab (SM90210 and HES Property in Care) are situated within the alignment. Although adjusting the alignment would be able to avoid direct impacts on the SMs, the proximity of the alignment to the SMs would likely cause a significant impact on their settings. The use of this alignment would also likely affect the settings of Balquhain Castle (SM490), Wester Shevock cairn (SM12115), Brownhills Cairns (SM12116), Harthill Castle (LB16132), Willamston House (LB2964) and GDL, Newton House (LB2962) and GDL, and the Inventory Historic Battlefield of the Battle of Harlaw.		Route entirely outwith settlement boundaries and LDP allocations. Route passes through small scale committed housing development.		Large stretches of prime agricultural land. Contaminated Land (railway, artificial ground, mills). Small areas of mineral resources.
OLC-006b		The scale of earthworks and potential impacts on residential receptors lead to an overall impact that will be major adverse.		Route the Strathstevick Burn where the floodplain is <100m wide (minor adverse).		Crossing of a few minor watercourses (likely field drains).		Individual property at end of the alignment. Prime agricultural land located: ch. 1400 - end.		There is minor or negligible potential change to level of the existing noise climate, resulting from the introduction of new roads and/or rerouting of existing traffic. The small increase in noise is identified at communities with a relative low population count.		The alignments are broadly in line with the existing alignment, however move away from all major settlements >100m/km.		The sub option would be visible within the key view to the south-east from Mains of Balquhain stone circle (SM3961). The use of this sub option would also likely affect the settings of Balquhain Castle (SM490), and the Inventory Historic Battlefield of the Battle of Harlaw.		Route entirely outwith settlement boundaries and LDP allocations and committed development.		Prime agricultural land (923m stretch). Small area of mineral resources.
OLC-007		The scale of earthworks, loss of woodland and potential impacts on mature trees and residential properties mean that the alignment is assessed as major adverse.		Route encroaches onto extensive floodplain of the Gadie Burn without crossing it (ch.8200m) with potential requirement for river realignment (major adverse). Potential for active morphology at the existing A96 crossing of the Gadie Burn.		Significant fragmentation of sensitive area, including large blocks of ancient woodland, that form a habitat connection across the current A96. The alignment cuts through Gouals LNCS which is designated for geological reasons so has not been considered within this ecological assessment. It is assumed that no realignment of the watercourses is needed.		Scattered properties within alignment and mainly to the southern end. One individual property at Watercraigs. Prime land located at: ch. 0-500 ch. 1100- 1250 ch. 2700- 4150 ch. 6000- 8500 ch. 13750		Potential noticeable decrease to level of current noise climate at Old Rayne and receptors located by existing A96, 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 alignments are broadly in line with the existing alignment, however move away from all major settlements >100m/km.		The use of this alignment would likely affect the settings of Brownhills, Cairns (SM12116), Hatton of Ardyne stone circle (SM21), Wester Shevock cairn (SM12115), Pitcaple Castle (LB2830), Westhill House (LB16134), Willamston House (LB2964) and GDL, Newton House (LB2962) and GDL, and the Inventory Historic Battlefield of the Battle of Harlaw.		Route entirely outwith settlement boundaries and LDP allocations and committed development.		Large stretches of prime agricultural land. Contaminated Land (railway, artificial ground, mills). Small areas of mineral resources.