



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	

Client
 Precision House
 McNell Drive
 Motherwell
 ML1 4UR



Client
 58 Port Dundas Road
 Glasgow
 G4 0HF



Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
First Fix Environmental Appraisal of Alignment D02

Project Ref. No	Stage	Scale	@A1
250002-92	Stage 2	1:20,000	
Drawing Number		Dimensions	
Project 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
D02-001		Moderate impacts are due to cuttings of 5-15m at locations along the alignment, loss of woodland to the east of Kirkton of Culalmond and impacts on the setting of Durno. Major adverse effects occur at both ends of the alignment, due to the introduction of new structures across the River Urie, loss of woodland and earthworks. The overall assessment of the alignment is Moderate adverse.		Route crosses the extensive floodplain of the River Urie (ch.13400m) and is not perpendicular to flow (major adverse). Route crosses channel three times here due to sinuosity of channel (potential requirement for river realignment) and potential for active morphology (moderate 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 several watercourses which are likely to be field drains, cuts across a couple of very small areas of ancient woodland. Northern end cuts into Foudland Local Nature Conservation Site (LNCS) and ancient woodland mosaic. This is true of all the D02 options, however, as this one causes no other moderate adverse impacts, it has been scored as minor overall. It is assumed that no realignment of the watercourses is needed.		A total of three properties lie within the alignment: Residential properties: Kirkton, at Kirkton of Culalmond Denovan Irelanbrae Farmhouse Prime and non prime agricultural land is 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.		The baseline alignment between Hurty and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area. Alignment is <200m from Durno settlement area so is classed as minor beneficial.		The alignment intersects the northwest corner of the Battle of Harlaw Inventory Historic Battlefield, causing a direct impact. Even if adjusting the alignment enabled the direct impact to be avoided, the proximity of the alignment to the battlefield may cause an impact on its setting. The proximity of this alignment to Culalmond Old Parish Church (LB2960) would result in a likely impact on its setting. Other assets whose settings may be impacted by the alignment are Mummer's Reive, cairn (SM11629), Whitehatches cairn (SM12188), Pitscurry, cairn 430m N of (SM12302), The Law, cairn (SM12113), Black Cairn, cairn 900m NW of Tocherford (SM12172), Rayne Parish Church (LB16017), and Freefield House (LB16001).		Route entirely outwith settlement boundaries and Local Development Plan (LDP) allocations and committed development.		One large stretch of prime agricultural land, and several smaller areas. Contaminated land (railway crosses alignment at one point) and small areas of mineral resources also present.
D02-002		Moderate adverse effects are primarily due to earthworks 5-15m and some loss of woodland. Major adverse effects occur at both ends of the alignment and are due to the combined effect of cuttings of more than 15m in depth, the introduction of new large structures, in addition to potential impacts on the setting of Williamston House Garden and Designed Landscape (GDL) at the north end, and loss of ancient woodland at the south end. The overall assessment of the alignment is Moderate adverse.		Route crosses the extensive floodplain of the River Urie (ch.14100m) and is not perpendicular to flow (major adverse). Potential for active morphology (moderate 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 across the River Urie twice in quick succession, cuts very close to Pitscurry Moss LNCS, cuts across several minor watercourses. It is assumed that no realignment of the watercourses is needed. 002, 003, 004 join together and clip the edge of Cairnhill LNCS and cross watercourses which feed into this LNCS. In this area, they also cut through the woodland and wetland mosaic habitat. The northern end of all options cuts into Foudland LNCS and ancient woodland mosaic.		A total of three properties lie within the alignment: Residential property Kirkton, at Kirkton of Culalmond Denovan Legatesden House (borderline) Prime and non prime agricultural land is 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 Hurty and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area.		The alignment intersects the northwest corner of the Battle of Harlaw Inventory Historic Battlefield, causing a direct impact. Even if adjusting the alignment enabled the direct impact to be avoided, the proximity of the alignment to the battlefield may cause an impact on its setting. The proximity of this alignment to Culalmond Old Parish Church (LB2960) would result in a likely impact on its setting. The alignment also runs in close proximity to the Williamston House Inventory GDL and may have an impact on its setting, causing it to increasingly feel as though it is enclosed by major modern roads. The alignment runs to the immediate south-west of Cat Cairn (SM12270), and its proximity to the SM would likely cause a significant effect on its setting. Other assets whose settings may be impacted by the alignment are Mummer's Reive, cairn (SM11629), Whitehatches cairn (SM12188), Pitscurry, cairn 430m N of (SM12302), Black Cairn, cairn 900m NW of Tocherford (SM12172), Rayne Parish Church (LB16017), and Freefield House (LB16001).		Route entirely outwith settlement boundaries and LDP allocations and committed development. Route is immediately adjacent to a small scale committed housing development.		Geological Site of Special Scientific Interest (SSSI) within 5m of alignment. Many small areas of prime agricultural land. Contaminated Land (railway crosses alignment at one point) and small areas of mineral resources also present.
D02-003		Moderate effects are due to earthworks of 5-15m and some loss of woodland in the north of the alignment and ancient woodland south of Bennachie House. Major effects are caused by large scale earthworks and introduction of large scale structures, potential impacts on the setting of Williamston House GDL at the north end, and loss of ancient woodland at the south end. The overall assessment of the alignment is Moderate adverse.		Route crosses the extensive floodplain of the River Urie (ch.14500m) and is not perpendicular to flow (major adverse). Potential for active morphology (moderate 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.		Several minor watercourse crossings. It is assumed that no realignment of the watercourses is needed. 002, 003, 004 join together and clip the edge of Cairnhill LNCS and cross watercourses which feed into this LNCS. In this area, they also cut through the woodland and wetland mosaic habitat. The northern end of all options cuts into Foudland LNCS and ancient woodland mosaic.		A total of two properties lie within the alignment: Residential property: Kirkton, at Kirkton of Culalmond Denovan Prime and non prime land located along section - 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 only communities with a relative low population count.		The baseline alignment between Hurty and Inverurie is sparsely populated. The new alignment moves the road to a similarly sparsely populated area.		The alignment intersects the northwest corner of the Battle of Harlaw Inventory Historic Battlefield, causing a direct impact. Even if adjusting the alignment enabled the direct impact to be avoided, the proximity of the alignment to the battlefield may cause an impact on its setting. The proximity of this alignment to Culalmond Old Parish Church (LB2960) would result in a likely impact on its setting. The alignment also runs in close proximity to the Williamston House Inventory GDL and may have an impact on its setting, causing it to increasingly feel as though it is enclosed by major modern roads. Other assets whose settings may be impacted by the alignment are Mummer's Reive, cairn (SM11629), Pitscurry, cairn 430m N of (SM12302), Warthill House (LB16018), and Freefield House (LB16001).		Route entirely outwith settlement boundaries and LDP allocations and committed development. Route passes through a small scale committed housing development.		Many small areas of prime agricultural land, contaminated land (railway crosses alignment at one point), and small areas of mineral resources all present.
D02-004		Major effects occur at the north and south ends of the alignment, due to earthworks and the introduction of new structures across the River Urie. Loss of ancient woodland at Warthill House and impacts on Melkie Wartle also cause major effects. Moderate adverse effects are due to earthworks of 5-15m and moderate loss of woodland. The overall assessment is Major adverse.		Route crosses the extensive floodplain of the River Urie (ch.14600m) and is not perpendicular to flow (major adverse). Route crosses channel three times here due to sinuosity of channel (potential requirement for river realignment) and potential for active morphology (moderate 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 across the River Urie twice in quick succession and then cut over a few minor watercourses. It is assumed that no realignment of the watercourses is needed. Dissects an ancient woodland mosaic in the east which forms a southern buffer to Wartle Moss SSSI and LNCS. 002, 003, 004 join together and clip the edge of Cairnhill LNCS and cross watercourses which feed into this LNCS. In this area, they also cut through the woodland and wetland mosaic habitat. The northern end of all options cuts into Foudland LNCS and ancient woodland mosaic.		A total of six properties lie within the alignment: Residential property: Kirkton, at Kirkton of Culalmond Denovan Viewfield Biddiehead (borderline) Outbuilding on Wartle House land. Bennachie House Legatesden Farm Prime and non prime agricultural land is 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.		The baseline alignment between Hurty 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 so is classed as minor beneficial.		The alignment intersects the northwest corner of the Battle of Harlaw Inventory Historic Battlefield, causing a direct impact. Even if adjusting the alignment enabled the direct impact to be avoided, the proximity of the alignment to the battlefield may cause an impact on its setting. The proximity of this alignment to Culalmond Old Parish Church (LB2960) would result in a likely impact on its setting. The alignment also runs in close proximity to the Williamston House Inventory GDL and may have an impact on its setting, causing it to increasingly feel as though it is enclosed by major modern roads. The alignment cuts through the non-inventory GDL which forms the setting for Warthill House (LB16018) and passes approximately 150m to the south of the house. A significant impact upon the setting of Warthill House is likely. Other assets whose settings may be impacted by the alignment are Mummer's Reive, cairn (SM11629), and Freefield House (LB16001).		Route entirely outwith settlement boundaries and LDP allocations and committed development. Route passes through a small scale committed housing development.		Many small areas of prime agricultural land, contaminated land (sewage works, railway), and small areas of mineral resources all present.