

LEGEND

Combined Engineering Appraisal

- Major Adverse
- Moderate Adverse
- Slight Adverse
- Neutral

P01	First Fix Appraisal				
	JSE	RO	FM	GW	GH
	10/04/18	18/04/18	18/04/18	18/04/18	18/04/18

Revision	Revision details				
	Created	Checked	Reviewed	Approved	Authorised
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

Designer
 Precision House
 McNeil Drive
 Motherwell
 ML1 4UR



Client
 58 Port Dundas Road
 Glasgow
 G4 0HF



Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
D03 - Engineering Appraisal Sheet 2 of 2

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

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

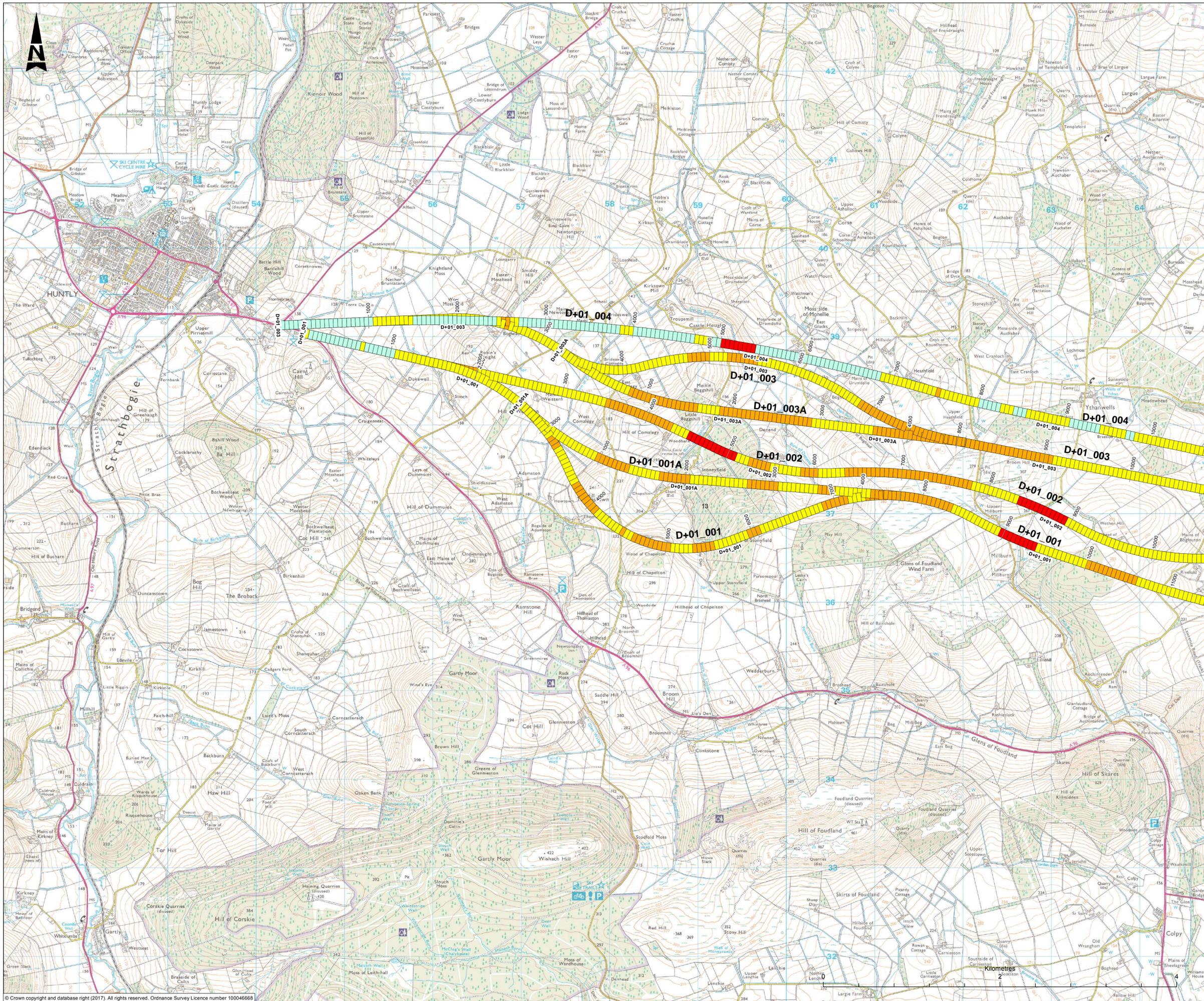
Suitability S2	Suitability Description For Information	Revision P01.01
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0	Neutral	Criteria
-1	Slight Adverse	
-2	Moderate Adverse	
-3	Major Adverse	

Rules
Total Score
 = Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L,
 Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
 If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers.
 If total is between -3 and -5 sho

Change	Start Change	End Change	Alignment									Utilities	Construction access	Temp disruption	Adjusted Total	Comments	
			Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plan	Watercourse Crossings						Attenuation requirement
0	50																
50	100		-1	0	0	-2	-3	0	-1	0	0	0	0	0	-1	-3	Structure at tie in to A82?
100	150		-1	0	0	-2	-3	0	0	0	0	0	0	0	-1	-2	
150	200		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-1	-2	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
200	250		-1	-1	0	-2	-3	-2	-3	0	0	0	0	0	-1	-7	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
250	300		-1	-2	0	-2	-3	-2	-3	0	0	0	0	0	-1	-4	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
300	350		-1	-2	0	-2	-3	-2	-3	-3	0	0	0	0	-1	-9	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
350	400		-1	-2	0	-2	-3	-2	-3	-3	0	0	0	0	-1	-9	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
400	450		-1	-2	0	-2	-3	-2	-3	-3	0	0	0	0	-1	-9	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
450	500		-1	-2	0	-2	-3	-2	-3	-3	0	0	0	0	-1	-9	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
500	550		-1	-2	0	-2	-3	-2	-3	-3	0	0	0	0	-1	-9	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
550	600		-1	-2	0	-2	-3	-2	-3	-3	0	0	0	0	-1	-9	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
600	650		-1	-2	0	-2	-3	-2	-3	-3	0	0	0	0	-1	-9	Structure over River Urie and Wood Burn Area of compressible ground Impact assessed as Major for the structure (600m) and associated engineering works
650	700		-1	-2	0	-2	-3	-1	-3	-3	0	0	0	0	-1	-8	Structure over River Urie and Wood Burn Non identified geotechnical constraint Impact assessed as Major for the structure (600m) and associated engineering works
700	750		-1	-2	0	-2	-3	-1	-3	0	0	0	0	0	-1	-7	Structure over River Urie and Wood Burn Non identified geotechnical constraint Impact assessed as Major for the structure (600m) and associated engineering works
750	800		-1	-2	0	-2	-3	0	-3	0	0	0	0	0	-1	-6	Structure over River Urie and Wood Burn Impact assessed as Major for the structure (600m) and associated engineering works
800	850		-1	-1	0	-2	-3	0	-3	0	0	0	0	0	-1	-5	Structure over River Urie and Wood Burn Impact assessed as Major for the structure (600m) and associated engineering works
850	900		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-1	-2	Cutting up to 15m in non-identified ground Combination of hilliness, bendiness and earthworks/m
900	950		-1	-1	0	-2	-3	-1	0	0	0	0	0	0	-1	-3	Cutting up to 15m in non-identified ground Combination of hilliness, bendiness and earthworks/m
950	1000		-1	-2	0	-2	-3	-1	0	0	0	0	0	0	-1	-4	Cutting up to 15m in non-identified ground Combination of hilliness, bendiness and earthworks/m
1000	1050		-1	-2	0	-2	-3	-1	0	0	0	0	0	0	-1	-4	Cutting up to 15m in non-identified ground Combination of hilliness, bendiness and earthworks/m
1050	1100		-1	-2	0	-2	-3	-1	0	0	0	0	0	0	-1	-4	Cutting up to 15m in non-identified ground Combination of hilliness, bendiness and earthworks/m
1100	1150		-1	-2	0	-2	-3	0	0	0	0	0	0	0	-1	-3	Cutting up to 15m in non-identified ground Combination of hilliness, bendiness and earthworks/m
1150	1200		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-1	-2	Structure required for side road crossing - moderate impact
1200	1250		-1	-1	0	-2	-3	0	-2	0	0	0	0	0	-1	-4	
1250	1300		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-1	-2	
1300	1350		-1	0	0	-2	-3	0	0	0	0	0	0	-1	-1	-3	Private Utility supply
1350	1400																
1400	1450		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1450	1500		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1500	1550		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1550	1600		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1600	1650		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1650	1700		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1700	1750		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1750	1800		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1800	1850		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1850	1900		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1900	1950		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
1950	2000		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
2000	2050		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
2050	2100		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
2100	2150		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
2150	2200		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
2200	2250		-1	0	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
2250	2300		-1	-1	0	-2	-3	0	0	0	0	0	0	0	-2	-3	Mix of minor cut and embankments Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
2300	2350		-1	-1	0	-2	-3	-1	-1	0	0	0	0	0	-2	-5	Structure over A82 on potential compressible ground
2350	2400		-1	-1	0	-2	-3	-1	0	0	0	0	0	0	-2	-4	Minor embankment on area of potential compressible ground Combination of hilliness, bendiness and earthworks/m Local disruption due to construction
			-1	-1	0	-2	-3	-1	0	0	0	0	0	0	-2	-4	Minor embankment on area of potential compressible ground Combination of hilliness, bendiness and earthworks/m Local disruption due to construction

14350	14400																			Minor embankment on Peat area of floodplain combination of filliness, bendiness and earthworks/m limited construction access
14400	14450	-1	-1	0	-2	-3	-3	0	-2	0	0	0	-2	0	-2	-2				Minor embankment on non-identified ground Area of floodplain combination of filliness, bendiness and earthworks/m limited construction access
14450	14500	-1	-1	0	-2	-3	0	0	-2	0	0	0	-2	0	0	-4	-4			Minor embankment on non-identified ground Area of floodplain combination of filliness, bendiness and earthworks/m limited construction access
14500	14550	-1	-1	0	-2	-3	0	-1	-2	0	0	0	-2	0	0	-5	-6			Structure over the Kings Burn combination of filliness, bendiness and earthworks/m limited construction access
14550	14600	-1	-1	0	-2	-3	0	-1	-2	0	0	0	-2	0	0	-5	-6			Structure over the Kings Burn combination of filliness, bendiness and earthworks/m limited construction access
14600	14650	-1	-1	0	-2	-3	0	-1	-2	0	0	0	-2	0	0	-5	-6			Structure over the Kings Burn combination of filliness, bendiness and earthworks/m limited construction access
14650	14700	-1	-1	0	-2	-3	-1	0	-2	0	0	0	-2	0	0	-5	-6			Minor embankment on potentially compressible material area of floodplain combination of filliness, bendiness and earthworks/m limited construction access
14700	14750	-1	0	0	-2	-3	-1	-1	-2	0	0	0	-2	0	0	-6	-6			Minor embankment on potentially compressible material area of floodplain combination of filliness, bendiness and earthworks/m limited construction access
14750	14800	-1	0	0	-2	-3	-1	-1	0	0	0	0	-2	0	0	-5	-6			Minor embankment on potentially compressible material area of floodplain combination of filliness, bendiness and earthworks/m limited construction access
14800	14850	-1	0	0	-2	-3	-1	0	0	0	0	0	-2	0	0	-4	-6			Minor embankment on potentially compressible material area of floodplain combination of filliness, bendiness and earthworks/m limited construction access
14850	14900	-1	0	0	-2	-3	0	0	0	0	0	0	-2	0	0	-3	-3			Combination of filliness, bendiness and earthworks/m limited construction access
14900	14950	-1	0	0	-2	-3	0	0	0	0	0	0	-2	0	0	-3	-3			Combination of filliness, bendiness and earthworks/m limited construction access
14950	15000	-1	0	0	-2	-3	0	0	0	0	0	0	-2	0	0	-3	-3			Combination of filliness, bendiness and earthworks/m limited construction access
15000	15050	-1	0	0	-2	-3	0	0	0	0	0	0	-2	0	0	-3	-3			Combination of filliness, bendiness and earthworks/m limited construction access
15050	15100	-1	0	0	-2	-3	-1	0	-1	0	0	0	-2	0	0	-5	-6			Minor embankment on potentially compressible material area of floodplain within 100m of alignment combination of filliness, bendiness and earthworks/m limited construction access
15100	15150	-1	0	0	-2	-3	-1	0	-1	0	0	0	-2	0	0	-5	-6			Minor embankment on potentially compressible material area of floodplain within 100m of alignment combination of filliness, bendiness and earthworks/m limited construction access
15150	15200	-1	0	0	-2	-3	-1	0	-1	0	0	0	-2	0	0	-6	-6			Minor embankment on potentially compressible material area of floodplain within 100m of alignment SW Distribution Main combination of filliness, bendiness and earthworks/m limited construction access
15200	15250	-1	0	0	-2	-3	-1	0	-1	0	0	0	-2	0	0	-6	-6			Minor embankment on potentially compressible material area of floodplain within 100m of alignment SW Distribution Main combination of filliness, bendiness and earthworks/m limited construction access
15250	15300	-1	0	0	-2	-3	-1	0	-1	0	0	0	-2	0	0	-6	-6			Minor embankment on potentially compressible material area of floodplain within 100m of alignment SW Distribution Main combination of filliness, bendiness and earthworks/m limited construction access
15300	15350	-1	-1	0	-2	-3	0	0	0	0	0	0	-1	-2	0	-4	-4			SW Distribution Mains combination of filliness, bendiness and earthworks/m limited construction access
15350	15400	-1	-1	0	-2	-3	0	0	0	0	0	0	-1	-2	0	-4	-4			SW Distribution Mains combination of filliness, bendiness and earthworks/m limited construction access
15400	15450	-1	-1	0	-2	-3	0	0	0	0	0	0	-2	0	0	-3	-3			Combination of filliness, bendiness and earthworks/m limited construction access
15450	15500	-1	-1	0	-2	-3	0	0	0	0	0	0	-2	0	0	-3	-3			Combination of filliness, bendiness and earthworks/m limited construction access
15500	15550	-1	0	0	-2	-3	-1	0	0	0	0	0	-2	0	0	-4	-4			Area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15550	15600	-1	0	0	-2	-3	-1	0	0	0	0	0	-2	0	0	-4	-4			Area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15600	15650	-1	0	0	-2	-3	-1	0	0	0	0	0	-2	0	0	-4	-4			Structure over the Kings Burn and floodplain and local road area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15650	15700	-1	0	0	-2	-3	-1	-2	0	0	0	0	-2	0	0	-6	-6			Structure over the Kings Burn and floodplain and local road area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15700	15750	-1	0	0	-2	-3	-1	-2	0	0	0	0	-2	0	0	-4	-4			Structure over the Kings Burn and floodplain and local road area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15750	15800	-1	0	0	-2	-3	-1	-2	-3	0	0	0	-2	0	0	-7	-7			Structure over the Kings Burn and floodplain and local road area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15800	15850	-1	0	0	-2	-3	-1	-2	-3	0	0	0	-2	0	0	-7	-7			Structure over the Kings Burn and floodplain and local road area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15850	15900	-1	0	0	-2	-3	-1	-2	-3	0	0	0	-2	0	0	-7	-7			Structure over the Kings Burn and floodplain and local road area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15900	15950	-1	0	0	-2	-3	-1	0	-3	0	0	0	-2	0	0	-5	-6			Area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
15950	16000	-1	0	0	-2	-3	-1	0	-3	0	0	0	-2	0	0	-5	-6			Area of compressible ground combination of filliness, bendiness and earthworks/m limited construction access
16000	16050	-1	0	0	-2	-3	-1	0	-3	0	0	0	-2	0	0	-5	-6			Structure over the Lochter Burn and floodplain and local road
16050	16100																			
16100	16150																			
16150	16200																			
16200	16250																			
16250	16300																			
16300	16350																			
16350	16400																			
16400	16450																			
16450	16500																			
16500	16550																			
16550	16600																			
16600	16650																			
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16900	16950																			
16950	17000																			
17000	17050																			
17050	17100																			
17100	17150																			
17150	17200																			
17200	17250																			
17250	17300																			
17300	17350																			
17350	17400																			
17400	17450																			



LEGEND

Combined Engineering Appraisal

- Major Adverse
- Moderate Adverse
- Slight Adverse
- Neutral

P01	First Fix Appraisal				
	JSE	RO	FM	GW	GH
	10/04/18	18/04/18	18/04/18	18/04/18	18/04/18

Revision	Revision details				
	Created	Checked	Reviewed	Approved	Authorised
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

Designer
Precision House
McNeil Drive
Motherwell
ML1 4UR



Client
58 Port Dundas Road
Glasgow
G4 0HF



Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
**D+01 - Engineering Appraisal
Sheet 1 of 2**

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

Drawing Number	Project	Originator	Volume
A96PEA	-AMAR - HGN -		
CD	-DR-CH-010001		
Location	Type	Role	Number

Suitability	Suitability Description	Revision
S2	For Information	P01.01