Ashbou	rne Optioneerin	g Comparison												
	junction with Highways Alignmen	t Optioneering Overview drawin		Route		Land Constraints and Planning		Preliminary Surface Surface		Highwa Departures/relaxations due to	y Geometry  Departures/relaxations due to	Departures/relaxations due to		
Option 1 (RED.	Summary  Smillar to criginal "Western Option A" but with roundabout at north end & nexicles solds farm at south end.	Features  Requires construction of additional roundation of additional roundation of additional roundation of additional roundation of at a southern extent, west of New roundational at north end of scheme replacing Spend	70kph (for the first 640m) and 85kph for remaining extents of scheme	Lengt (km) 3.28	Within Flood Zone  Cuts through Flood Zone 3: Would impact Hermore Brock food plans to the south of the AGU, and the total south of the AGU, and the floor through the south of the AGU, and the corrections of section 10 and north of the AGU, and controllay a small EA flood devices occurred as a small EA flood devices controlled as settled pears to The Lillian's Will require full EA flood modeling of Section 10 and the section of the Section 10 and	Restrictions Listed mileage post in vicinity of A52 roundabout at south end of scheme.	Tissington Trail bridge over highway required. Trail levels ma need to be increased on approach impact on farm underpass to be considered.	Preliminary Surface-Surface CutFill Ballance Total preliminary cusffill balance y shows as prodominarly in St. Cut: 30822.122+1896.474 FB: T7102.566+1932.264 Net: 46403.443-534.210 -4FB>	Opportunity for "Overtaking" Opportunity for "Sööm of PGSI overtaking, Near straight Söfford allowing overtaking, I bell direction (vertice purmitting, I/CSSm, 1% longlak)	Horizontal Profile  One-step below relaxation - 255mF for 70kph design speed 40mph section to avoid solar panels.	Vertical Profile  Vertical departures from standard required for North Roundabout. Spend Lane and A515 South arm would require steep approach gradients.	Departures-resultation out to Roundshort Geometry  None	of PRAW, and more sensitive passance of PRAW, and more sensitive passance Additional effects entered floodplain compensation, works in the area, are issue effects from slight and an extra section of modularity. Proximit or residential incorptors (The Statler main elevation of Brooklands Farm, Bridge Barm). Longer assets minimal members of brooklands for an external splingly and Teaching consolidated and potential splingly and Teaching consolidated and potential splingly and Teaching consolidated and potential splingly and Teaching and solidated times of Bertiley Brook parallel to ASTS, yealther impacts on residential snoophors to south and east.	Heritage Concernalisases  There are three cross-readion areas, one scheduled monument and over 100 listed buildings within time of Option 1. The conservation areas scheduled monument and over 100 listed buildings within time of Option 1. The conservation areas scheduled monument is all Medical settlement including part of open field system, 200m south of Bank Farm (MEE: 101827) and is loaded approximately of 10m west of the Option. The Island buildings are grade listed Obtach of St Option (MEE: 1020715), Old Grammar School (1207969), and manusion (1335193) are will as the grade listed Obtach of John the Baptist and numerous grade is and it is the chasses. The closest back buildings is off its land to such a school (1207969), and associated stables (1203577) and Dourdary walls (1000555). The walls are Coaled adjacent to the AST-5 close to the proposed roundatout, A grade listed millipsort south of Buckholmer (1203069) is also becasted close to the south-western and of the Option on the ASZ. Assas within the fields along the proposed most on the relation status of the proposed roundatout. A grade Isstem Emisjoner Record within the fields along the proposed most on the college Design Per Isstem Emisconer Record
Option 2 (ORANGE)	Bridge, being identical to	existing on A52 at southern extent, incorporating left in / left out connections to Watery Lane. New roundabout at		3.25	Flood Zone 3, does cut through once ted-back into Option 1. Will require full EA flood modelling of Bentley Brook & River Dove in addition to flood compensation. Highway levels may need to be increased to ensure	Land adjacent to Water Lane is owned by Derbyshire Dales Datrict Council (DDDC) but is subject to a land covenant is understooth that DCC as the acquiring authority is able to overreach these restrictions through compulsory acquisitions or a should have no bearing on the Encocaches on existing alternat and cemetry ground owned by DDDC. Sandytrook hall adjacent to proposed junction with A615 is a grade I listed building	need to be increased on approach.	Total preliminary cut/fill balance y shows as predominantly in fill.	No apportunity for FOSD overtaking	None	Vertical departures from standard required for North Roundabout. Spend Lane and AS15 South arm would require steep approach gradients.	Departures for high entry path radiu on AS2 SW arm	section. Fewer impacts on floodplai to Dove, but large cutting E of sewage works may have greater visusal influence in early years, possibly including from Okeover Ha	(HER). There are three conservation areas, one is cheduled monument and over 100 listed buildings within time of Option 2. The conservation areas comprise. Althours, approximately 270m south-east, Callow Hall 150m north and Majeleton 400m inch-west of the Option. The scheduled monument is a Medieval settlement including part of open field system, 200m south of Earth Farm 570m west of the Option. The listed buildings are mostly concentrated in Althours, and include the grade listed Church of St Oswald (MELE 120715), Lid Grammar School (120796), and mannion (1305139) as well as the grade if listed Church of John the Begintal and numerous grade I and if itsel houses. The closest tisted buildings are the Option are the grade listed Suppriors light (100705), The walls are located according to the Church of St Option are the grade listed Suppriors light (100705). The walls are located sequent to the AST Close to the proposed round door, Areas of Imediend ridge and Strow are also recorded within the fields story the proposed route on the oritine Derbyshire Historic Environment Record (HER).
Option 3 (BROWN)	Identical to Option 1 from AS2 to Mayleton Bridge but Mayleton Bridge but Mayleton Bridge but Mayleton Bridge to take in the hordest transitional rate of the market but and the state of the market but and the state of the stat	Requires construction of additional roundation of notice and additional roundation of notice and additional roundation at north end of scheme 100-150m north of existing ASTS (unclaim).	70kph (over entire length)	2.12	Duts through Flood 20ns 3. Will expain bill EA flood moveleting of Banthy Brick EA flood moveleting of Banthy Brick EA floor Does is addition to flood compensation	Listed mileage post in vicinity of AS2 roundabout at south end of scheme	Highwaystructure over Tissington trail required. Trail levels may be and be reduced on Tissington Trail farm underpass to be considered.	Total preliminary cutfill balance shows as predominarily in fit.	Opportunity for ~650m of FOSD overfailing	One-step below 255mR for 70kph design speek 40mph section to word only panel 40mph section to word only panel 50mph section to word only panel 50mph section with anti-scaping to restrict natural visibility where overtaking not appropriate. Suppared coulde white line system used as per Section 9 CD 100 to be in with current systems in place on the AS2 and AS15 to the north.	to the northern roundabout. Existing road gradient circa 8%, pox	Option 2 CD 36m aboven, has to be properlied to normal die to properlies constraining approach properlies constraining approach arms. Needs traffic modelling. OK for car & 7.75 side by side bot MVV would take both lanes on circulatory	River Dove and Bentley Brook with noreased proximity to and truncatic of PROW; and (possibly) older, mo valued hedgerows. Visual effects of slight embankment on floodplain. Proximity to residential receptors (The Stables, main elevation of Brooklands Farm, Bridge Barn). Extensive, engineered (incongrous) curved embankment at northern roundabout, with potential visual migracts in most directions, includin	There are three consensation areas, one scheduled mosument and over 100 lister buildings within 14m of John 3. The consensation areas in comprise: Ashbourne, approximately 260m south-seast Callow Half 190m north weeklighten 400m north-west of the Option. The scheduled monument is a Mediceal settlement including part of open feld system, 200m south of Bank Farm (Pett.E. 1018877) and is located over 900m north-west of the Option. The lister buildings are mostly concentrated in Ashbourne, and include the graded listed Church of St. Obweller (Pett.E. 1018877) and is located over 100m north-west of the Option. The lister buildings are mostly concentrated in Ashbourne, and include the graded listed Church of Schotten (1935153) as well as the graded in lister Option are the graded listed milegon to outh of John the Baptett and rumerous graded fault of Inster Option are the graded listed milegon to outh of Schotten (1935154), as valid lister buildings propriately 150m north of the troundshoot on the ASIS. Areas of medical stigle and furnow are also recorded within both of the Province of the Control of the Province of the CERN.
Option 4 (GREEN)	HWRC/cametery roundlabout then lies into Option 1 north of Tissington Trail	New roundabout to replace existing on ASZ et southern extent, incorporating left in / left out connections to Walter Lune. Passes between self-self-self-self-self-self-self-self-	1300m) and 85kph thereafter	2.88	still likely to require full EA flood	Land adjacent to Watery Lane is owned by Derbyshire Dales Datrict Council (DDD-D) but is subject to a land covenant. It is understood that DCC as the accurating authority is because the properties of the through computiony acqualitions so it should have no bearing on the development in this area. Enrocaches or existing allotment and cemelary ground owned by DDD-DCC. All adjacent to proposed junction with A615 is a grade il listed building.	need to be increased on approach.  Impact on farm underpass to be	Total preliminary cutfill balance y shows as predominantly in SI.	No opportunity for FOSD overtaking	One-step below relaxation - 255mf for 70kph design speed to avoid sewage works	R The maximum proposed vertical grade of 8% is the maximum	Departures may be required for high entry path radius on ASZ SW arm	As Option 1 for easternhoritem section. Fewer impacts on flootigis to Drove, but culting along certain section may have greater visual influence from one sensitive locations to north. Mangally higher compared to Option 6 may locally increase impacts. Truncation of FP19.	There are Bree conservation areas, one scheduled morument and one 100 Istad building within 14m of John A. The conservation areas comprise. Ashbourne, approximately 370m south seast, Calibor Hall Choin north and Majesten 600m morument is a Medicard settlement including part dopen field system, 200m south of Barik Farm (IN-LE 1018871) and is boated approximately 370m south of Sear Again (IN-LE 1018871) and is boated approximately appeal is lained Christon 401 Chavald PME 15m and install of the appeal is lained Christon 401 Chavald PME 15m and manufact (1301313) as well as the grade if listed Christon 401 Christon 401 (IN-LE 1018871) and install christon 1018 Christon 14m in 14m of
Option 5 (BLUI	E) HWRC/cemetery roundabout then passes south of barn at Alephen Road before its in Negleton Road before its in the Alephen Commissional roads on the ASTS	existing on A52 at southern		1.72	Could impact Hemmore Brook flood lpain. Existing EA Hemmore Brook modelled flood outline solely and/or modelled flood levels to be used to confirm flood plain extent/flood risk from this Brook to the existing roundabout.	Land adjacent to Watery Lane is owned by Derbyshire is subject to a DCC as the acquiring admortly is able to overerach these restrictions through compulsory acquisitions of a brouch that was bearing on the development in this area. Encroaches on existing allotment and cemelary ground owned by DDCC.	Trail required. Trail levels may need to be reduced on approach. Impact on farm underpass to be considered.	d shows as predominantly in fill.	No apportunity for FOSD overtaking	One-step below relaxation - 255mR for 70tch design speed to te-into A615 roundabout	Unless the route passes over the Trainington Trial, it would not be properties of the control of the popularies), as the existing slope of the ground is too steep on the approach to the nothern roundatout The maximum proposed vertical grade of 8% is the maximum	Departures for high entry path radiu on AG2 SW arm	Dove, but extensive cuttings along elevated central section may have greater visusal influence from mor sensitive locations to north, possibl including from Oleover Hall area (large concentration of listed buildings). Truncation of PP19. Extensive, engineered (incongrous) curved embankment at northern roundabout, with potential visual impacts in most directions, includin	There are three conservation areas, one scheduled monument and over 100 listed buildings comprise Ashbourne approximately 26th southern comprise Ashbourne approximately 26th southern conservation and the scheduled monument is a Medieval settlement including part of open feel system, 200m south of Barik Farm (PAEL: 101887) and is located over 600m northwest of the Option. The listed buildings are mostly concentrated in Ashbourne, and include the graded is lasted Church of SC Owasid PAEL: 2027716, Out 100 (100 pages 100 pa
Option 6 (MAGENTA)	then passes south of barn at Mapleton Road before tie in to intermediate roundabout route	New roundabout to replace existing on ASC at southern existing on ASC at southern left of the control of the co	reduced design speed of 50kph (speed limit of	2.07	plain. Existing EA Henmore Brook modelled flood outline solely and/or	Derbyshire Dales District Council which is subject to a land covenant. Encroaches on existing allotment and cemetery ground owned by		Total preliminary cutfill balance shows as predominarily in cut. Cut 87399.200 Fix: 35850.038 Nat: 51448.142 < Cut-	No opportunity for FOSD overtaking	One-step below reteastion - 255mF for 704ph design speed to te-ents ARTS roundabout	raising above road subject to Topo data. Possible alternative is lowerin road subject to levels in close proximity to flood zone.  The 3.33% gradient into the roundabout is technically a departur according to DMRB, but is frequent	as a service road for the mini- business park and farm access (potentially putting in a ghost island e right turn off the north arm although y may be too close) may require a	Dove, but extensive cuttings along elevated central section may have greater visual influence from more sensitive locations to north, possibly including from Okeover Hall area (large concentration of listed it buildings). Less impact than engineered impact (Option 5) but loss of mature trees in Bertley Brot food plain and compromise of field	These we have consensation seems, one chandled in some ent and one 100 bited buildings within them of Option 6. The consensation street comprise Ashbourne, approximately 400m south- reast. Callow Hell 200m north and Mapiston 650m north-west of the Option. The scheduled morument is a Medieval settlement including part of open field system. 200m south of Barik Farm (NeLE: 1018871) and is located over 900m north- west of the Option. The leated building are mostly concentrated in Ashbourne, and include the greatel stated Courth of 25 (Owald NeLE 201716), Oil (1335153) as well as the grade if listed Church of John the Bagbat and manerous grade land if listed houses. The closest listed building to this Option is the Gables, a grade it listed building approximately 70m south of the roundatout on the AR15. Areas of medieval right and thorn ware also recorded within the fields along the proposed roush on the orisine Debytine Halton: Environment Record (MER).
Notes:		Further consideration of Va Consideration of land restr	lue For Money (VFM)	) required t	o incorporate impacts of options of the incorporate impacts of options of the incorporate	n route length, junction form and trachase (CPO)	affic speeds.	ilable						
		Consideration of geotechn Landscape Concerns / Issu	tions required to ass ical constraints requi es (Impacts will arise	ired from all op	on Tissington trail and options for tions to Tissington Trail / southern	over/under bridges - to be based on access; and landscape/visual setti	on topographical survey once avaing of northern fringe of Ashbourn	ilable ne, where development is largely hi	dden by intervening landform).					
						gh the Ashbourne CA due to the ne	w road though, which may have a	positive effect on the setting.)	vation area, I think all of the option		ent into the rural landscape, and ma	,		
	,	7 Ecology, we don't have any known major species constraints at this point, or any designations likely to be affected; there aren't expected to be any showstoppers at this point. Differentiation between the options would likely come from limiting hedgerow loss and the footprint of the project; plus limiting impacts of the riparian habitat alongside the watercourses.												