

ED.4.2.1

Stratford-on-Avon District Council Viability and deliverability of strategic sites

Final Report

On behalf of Stratford-on-Avon District Council



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Viability and Deliverability of Strategic Sites

Stratford-on-Avon District Council



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1 Introduction and approach

- 1.1.1 The focus of this report is to assess viability and deliverability issues associated with taking forward potential strategic allocations to deliver residential development in Stratford-on-Avon District. This report builds on an earlier report 'Large scale new settlement assessment', June 2013, which looked at options for new strategic sites within the District.
- 1.1.2 The report will assess the key issues and constraints associated with potential strategic allocations identified by the Council for testing. This has involved desk based research including policy analysis and a market assessment, alongside extensive consultation with each of the promoters and infrastructure providers.
- 1.1.3 The sites being considered within this report are as follows:
 - Gaydon/Lighthorne Heath
 - Long Marston Airfield
 - Lower Farm, Stoneythorpe
 - Southam North
 - South East Stratford
- 1.1.4 These sites were previously assessed in the 'Large scale new settlements assessment' report with the exception of Stoneythorpe. To address the omission of Stoneythorpe from that report we have undertaken an assessment of Stoneythorpe on the same basis as those completed previously and this is included in **Appendix C**.
- 1.1.5 It is anticipated that the Council will identify at least one of these sites to contribute to housing supply in Stratford-on-Avon District. The site sizes range from 800 to 2,500 dwellings to be delivered within the Plan period. Whichever site is chosen to bring forward the Council need to provide evidence that their housing supply is deliverable (first five years) and developable (six to fifteen years) to meet the requirements set out in the National Planning Policy Framework (NPPF).
- 1.1.6 The report and the accompanying appraisals have been prepared in line with RICS valuation guidance. However, it is first and foremost a supporting document to inform the Core Strategy evidence base and planning policy, in particular policy concerned with the planning, funding and delivery of infrastructure needed to support delivery of the plan.
- 1.1.7 As per Professional Standards 1 of the RICS Valuation Standards Global and UK Edition¹, the advice expressly given in the preparation for, or during the course of negotiations or possible litigation does not form part of a formal "Red Book" valuation and should not be relied upon as such. No responsibility whatsoever is accepted to any third party who may seek to rely on the content of the report for such purposes.

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¹ RICS (January 2014) Valuation – Professional Standards, PS1 Compliance with standards and practice statements where a written valuation is provided



1.2 Approach

- 1.2.1 PBA has sought to establish whether the potential strategic sites identified by the Council can deliver the required number of dwellings within the Plan period, taking into account the local market and infrastructure requirements necessary to enable development. A brief summary of our approach is set out as follows:
- 1.2.2 **Site research** this has established the baseline evidence on each of the sites in terms of the scale and mix of development, pace of development, infrastructure requirements, constraints and mitigation, building on previous work where possible. In particular and for each of the sites we have:
 - Undertaken consultation/interviews with each of the landowners/promoters this has
 established work done to date in identifying infrastructure requirements and constraints,
 marketing and anticipated sales rates and values and land values
 - Reviewed the transport and utilities work and established from this likely costs and timing of delivery
 - Updated population increase related infrastructure requirements, costs and timings (e.g. education)
 - Market assessment we have set out achieved values for the types of developments likely to come forward and tested these with local agents through telephone consultation as to the likelihood of achieving suggested values and the pace of development.
- 1.2.3 **Task 2 Delivery plan** for each site we have set out a schedule for the delivery of the site which will include a housing trajectory and triggers for key infrastructure. This has been used to inform the viability testing.
- 1.2.4 Task 3 Viability testing for each site a viability assessment has been undertaken. This includes a cashflow analysis that will take into account the pace of development and payments for key infrastructure items. The viability assessment sets out what contributions development could make through CIL, taking into account development costs and S106 requirements including affordable housing.



2 Policy context

2.1 Introduction

- 2.1.1 The NPPF promotes sustainable development and encourages planning authorities to plan positively for their area. The Local Plan is the key document delivering this sustainable development and reflects the vision and aspirations of local communities.
- 2.1.2 The setting of strategic priorities within the Local Plan (Core Strategy) is set out within the NPPF (para 156). This advocates strategic policies to deliver the homes and jobs needed in the local authority and broad locations for strategic development as well as additional specific site allocations for promoting development (para 157). In addition, the NPPF requires a proportionate evidence base to be submitted to support the plan (para 158). In particular, the NPPF requires that Local Plans' pay careful attention to viability to ensure that the plan is deliverable. With regards to this, paragraph 173 of the NPPF states:

'The sites and the scale of development identified in the plan should not be subject to such a scale of obligations and policy burdens that their ability to be developed viably is threatened. To ensure viability, the costs of any requirements likely to be applied to development, such as requirements for affordable housing standards, infrastructure contributions or other requirements should when taking account of the normal cost of development and mitigation, provide competitive returns to a willing land owner and willing developer to enable the development to be deliverable.'

- 2.1.3 Specifically in relation to housing, NPPF (para. 47) requires local planning authorities to:
 - identify and update annually a supply of specific deliverable sites sufficient to provide five years worth of housing against their housing requirements and
 - identify a supply of specific, developable sites or broad locations for growth, for years 6-10 and, where possible, for years 11-15;
- 2.1.4 To be considered deliverable, sites should be available now, offer a suitable location for development now, and be achievable with a realistic prospect that housing will be delivered on the site within five years and in particular that development of the site is viable. Sites with planning permission should be considered deliverable until permission expires, unless there is clear evidence that schemes will not be implemented within five years, for example they will not be viable, there is no longer a demand for the type of units or sites have long term phasing plans.
- 2.1.5 To be considered developable, sites should be in a suitable location for housing development and there should be a reasonable prospect that the site is available and could be viably developed at the point envisaged.
- 2.1.6 It is within this context that we set our findings as to the deliverability of the proposed strategic sites in Stratford-on-Avon District.

2.2 Guidance

- 2.2.1 The NPPF provides no further guidance as to delivery and in particular the viability aspects should be approached. However the recently published National Planning Practice Guidance (NPPG), does provide some further explanations about the government's view on viability and delivery in respect of plan making.
- 2.2.2 It states that "Development of plan policies should be iterative with draft policies tested against evidence of the likely ability of the market to deliver the plan's policies, and revised as



part of a dynamic process" and that "Evidence should be proportionate to ensure plans are underpinned by a broad understanding of viability. Greater detail may be necessary in areas of known marginal viability or where the evidence suggests that viability might be an issue – for example in relation to policies for strategic sites which require high infrastructure investment"

- 2.2.3 In respect of delivering land for housing development the GPPG sets out what should be considered deliverable and developable. In particular it states that assessments should identify:
 - the potential type and quantity of development that could be delivered on each site/broad location
 - reasonable estimate of build out rates
 - how any barriers to delivery could be overcome and when
 - an indicative trajectory of anticipated development and consideration of associated risks.
- 2.2.4 CLG have also produced guidance on implementing the CIL, recently updated in February 2014 to reflect the amended regulations which came in at the same time. This guidance sets out advice on the evidence required to inform levy rates. This includes identifying the cost of infrastructure they wish to fund wholly or partly through the levy and the impact of the levy on strategic sites.
- 2.2.5 It should also be noted that there are two other main guidance reports of relevance to viability and Local Plans. They are:
 - Viability Testing in Local Plans, Advice for Planning Practitioners. (LGA/HBF & Sir John Harman) June 2012, often referred to as the 'Harman Report', and
 - Financial Viability in Planning, RICS guidance note, 1st edition (August 2012), often referred to as the 'RICS Guidance'.
- 2.2.6 Whilst not statutory or formal guidance or endorsed by CLG there is a general appreciation of the principles toward assessing viability set out in these reports and they are often quoted at Examinations. Therefore it is reasonable to consider their approaches in undertaking this work.



3 Potential strategic site profiles

3.1.1 The council has identified five potential sites that it considers to provide alternative options to contribute to the delivery of housing within the district. The sites are briefly described below, with more detailed descriptions of the sites and proposals set out in the council document 'Focused Consultation: 2011-2031 Housing Requirement and Strategic Site Options February/March 2014'.

3.2 Gaydon/Lighthorne Heath

- 3.2.1 Gaydon/Lighthorne Heath is located between the M40 and the settlements of Lighthorne, Lighthorne Heath and Gaydon. It is predominantly greenfield although there is a former quarry within the site. Jaguar Land Rover's (JLR) main base is also adjacent and part of the development proposal is to allow for their expansion.
- 3.2.2 Although the site is adjacent to three small settlements these offer only limited services and facilities and therefore development in this location will require significant investment in suitable infrastructure to meet the needs of the new community.
- 3.2.3 Environmental constraints are limited, although there will need to be a consideration of the impact of the adjacent motorway, local wildlife and historic sites.
- 3.2.4 Gaydon/Lighthorne Heath is largely within control of three landowners and is being jointly promoted. The site is now formally split between the land identified for expansion of JLR and the new settlement. Each have different requirements in terms of infrastructure with neither dependent on the other in terms of delivery, although clearly a joint approach is beneficial.

3.3 Lower Farm, Stoneythorpe

- 3.3.1 The Stoneythorpe site adjoins the A425 to the west of Southam although it does not share a boundary with the urban form of Southam. It is a greenfield site that whilst isolated from residential settlements is adjacent to Codemasters, which is a successful software company employing 500 people.
- 3.3.2 Whilst smaller in scale than the other potential sites, its relatively isolated location means that a range of infrastructure will need to be provided.
- 3.3.3 Part of the site is within an area of floodrisk and the route of HS2 crosses the northern part of the site which will need to be considered in terms of both construction and operation.
- 3.3.4 Lower Farm is within the same ownership as the family who established the neighbouring Codemasters company. It is understood that the owner is not seeking a market return for the land and is self-promoting the scheme as an exemplar development.

3.4 Long Marston Airfield

- 3.4.1 Long Marston Airfield is located approximately 3.5 miles to the south of Stratford-upon-Avon. The nearest settlements are Long Marston and Lower Quinton, although neither adjoins the proposal. It is mixed brownfield and greenfield site given its current use as an airfield although it does have significant greenspace on the site.
- 3.4.2 The nearby settlements do not offer extensive service provision and there are well established issues regarding access to and through Stratford-upon-Avon from the south, therefore provision of infrastructure will be a key consideration.



- 3.4.3 There are limited environmental constraints on site but there is a gas main running through the site which will reduce the developable area and require capping. Also whilst not on site the required road link for south west Stratford-upon-Avon is likely to be close to SSSI (1021874 Racecourse Meadow), although a formal potential route has yet to be agreed.
- 3.4.4 Long Marston Airfield is within the control of a single ownership and is being actively promoted by an experienced land development promoter with established financial backing. It is understood that current users of the site will have agreements terminated upon granting of any outline planning permission or reserved matters, dependant on use and location on the site.

3.5 Southam North

- 3.5.1 The Southam North site extends either side of the A423 Coventry Road between the settlements of Southam to the south and Long Itchingham to the north. The site comprises of both greenfield and former mineral working associated with the cement works which used to operate from the central area of the proposed site. Surrounding land is still being worked and a former railway with unknown ownership runs through the site.
- 3.5.2 The adjoining settlements do offer a range of services which could meet some of the needs of the new settlement, although these may need improvement or expansion as development moves forward.
- 3.5.3 Whilst part of the site is a former cement works there are not any known major constraints to address through the development, although an allowance will be made in testing for viability for land remediation to address any contamination and land stability issues that may be present. The promoter has experience of developing similar sites and considers that its former use does not preclude residential development.
- 3.5.4 Southam North is substantially within the ownership of Cemex who are seeking to dispose of the land as it has no further use to the company. There are some areas within the site that have separate ownership, but it is understood from the promoters that agreements are in place to bring those areas forward should the site be identified for development. These areas are not critical to overall delivery but would reduce the net developable area were they not to come forward.

3.6 South East Stratford

- 3.6.1 South East Stratford area is located between the Banbury and Wellesbourne Roads. It is greenfield site adjacent to Stratford-upon Avon. It is understood that parts of the site have already been submitted through planning applications for residential development, although at the time of writing these were yet to be approved.
- 3.6.2 As the site is adjacent to the urban area it has access to services and facilities within the town. However, there is a limit to the amount of development permissible prior to some form of new road access for south east Stratford-upon-Avon. Also, education is already at or near capacity; so whilst the site is well located in terms of proximity to a settlement there are still some significant infrastructure requirements.
- 3.6.3 Although the site may be sensitive in landscape terms there are no major environmental constraints for the development to overcome.
- 3.6.4 South East Stratford has a more complex ownership pattern from the other strategic sites. Whilst there are two main landowners to the south west part of the site the remaining areas to the north east are more disparate. Whilst two of the landowner's representatives have indicated a willingness to jointly promote, there is no evidence of this having yet happened. It is also clear that small piecemeal applications are coming forward with no indication of how



these would be considered within a wider strategic development and how matters of infrastructure and equalisation would be considered.

3.7 Site proposals

3.7.1 A brief profile of the scale and form of each proposed site is provided below in Table 3.1. The site size, proposed number of dwellings and other uses have all been identified following consultation with each of the main promoters of the sites and with the council. In some cases promoters have come forward with higher dwelling numbers in their responses to the Focused Consultation on the Core Strategy as their proposals have evolved since initial discussions. It is not surprising that the numbers are varying as more understanding and information comes forward. As the numbers are not significantly altering for development within the plan period in terms of what has been tested, it is not considered that they would affect the overall findings in this report in respect to delivery.

Table 3.1 Site profile

Site	Site area	Dwellings	Employment
Gaydon/Lighthorne Heath	300 h	2,500 by 2031 (3,000 total)	100 h
Long Marston Airfield	210 h	2,100 by 2031 (3,500 total)	13 h
Lower Farm Stoneythorpe	40 h	800	Not specified in hectares but indication of around 1,000 sq. m of employment space
Southam North	North 120 h 2,000 by 2031 (2,000-2500 total)		5 h
South East Stratford	220 h	2,500 by 2031 (2,750 total)	8 h

3.8 Delivery rates

- 3.8.1 As well as the quantum and type of development it is important to consider the timing for each infrastructure item in terms of triggers in respect of housing numbers. In order to assist infrastructure providers to identify when infrastructure is required and to assist in assessing cashflow through the life of the development a proposed delivery rate for each site needs to be set out.
- 3.8.2 To inform the delivery rates, as this is a crucial part of understanding the viability of sites and also in showing that sites can come forward at the required rate over the plan period, research has been undertaken on other schemes either recently completed or under construction.
- 3.8.3 These are for a range of sites within the same range in terms of numbers as the proposed strategic sites, although it is recognised that they are in different market areas so some caution does need to be exercised with making direct comparisons.



Table 3.2 Delivery rates for major schemes

Scheme	Total number of dwellings	Annual achieved delivery rate (completions)
Loves Farm, St Neots	1,200	150 (8yrs)
Broughton Gate, Milton Keynes	1,500	214 (7yrs)
Cranbrook, East Devon	2,900	500 (u/c)
Centenary Quay, Southampton	1,600	160 (10yrs)
Hindmarch Crescent, Hedge End	1,014	60 (u/c)
Camborne, South Cambridgeshire	3,000	110 (u/c)

u/c under construction

- 3.8.4 The range varies considerably from just 60 sales per year to 500 sales the range can be dependent on a number of factors including the number of outlets/builders involved in a site. For example Cranbrook has five different outlets, whereas Hindmarch is just one outlet. Another determining factor is location, whereby areas such as Milton Keynes have heated property markets and will therefore be able to accommodate higher sales rates. It is apparent from the market in Stratford-upon-Avon, where investment is being made in appealing planning decisions and promoting large sites that there is appetite from the development industry and therefore from the local market for new housing suggesting sites could accommodate the suggested pace of delivery. It is also of note the general improvement in the market over the past year with volume housebuilders such as Redrow, Persimmon and Barratt reporting average completions at around 40 per year per outlet over the past year with an expectation of rising sales rates.
- 3.8.5 The sales rates described above are largely in common with those put forward by the promoters of schemes on the strategic sites. On this basis of this evidence, we see no reason to alter the proposed rates suggested by the promoters/developers of the strategic sites. Therefore we have tested viability and deliverability on the following suggested average per annum sales rates:

Table 3.3 Delivery rates for proposed strategic sites

Site	Average delivery rate per annum	Number of outlets
Gaydon/Lighthorne Heath	170	4
Long Marston Airfield	140	4
Lower Farm Stoneythorpe	100	2/3
Southam North	135	3/4
South East Stratford	170	4



3.8.6 These delivery rates have been used iteratively in discussions with the infrastructure providers to inform the timing of infrastructure and key trigger points to test whether the proposed sites can deliver the required level of infrastructure and development within the Plan period. This is shown in section 4.



4 Infrastructure requirements

4.1.1 The proposed strategic sites will require substantial investment in infrastructure to deliver the sustainable communities which are planned. It is important that the main infrastructure requirements are identified and tested in this report. However, it is also important to note that an Infrastructure Delivery Plan (IDP) is being prepared to support the Core Strategy and a subsequent CIL process will provide further guidance on developer contributions for the required infrastructure. Whilst the findings of this report will be inform the latest IDP, it will be the IDP that will be kept up to date through the plan period to reflect any changing circumstances and should be cross referenced when reading this report for the latest position.

4.2 Infrastructure consultation

- 4.2.1 To inform the viability testing and to evidence the assessment of delivery consultation has been undertaken with developers, landowners and Infrastructure Service Providers (ISPs) to identify indicative physical, social and green infrastructure requirements. This information has been supplemented and validated by PBA in conjunction with ISPs identified by the Council.
- 4.2.2 The work has focused on the identification of onsite infrastructure requirements to inform the consideration of development viability. The study has sought to identify what infrastructure is required, its cost, who is responsible for its delivery, when it is likely to be required and potential funding sources. The following infrastructure contacts consulted previously were invited for comments and responses received were used to update this report:

Table 4.1 Infrastructure Service Providers Consulted

Type of Infrastructure	Contact	Organisation
Education	Janet Neale John Harmon	Warwickshire County Council
Transport	Nick Dauncey Dave Neale	Warwickshire County Council
Health/Public Health	Mel Duffy Jayne Blacklay David Goodwin David Rosling Emily Fernandez	South Warwickshire Foundation Trust NHS Property Services, Primary Care, Arden, Herefordshire & Worcestershire Area Team Warwickshire County Council
Leisure Services	Tony Perks Chris Fennell	Stratford-on-Avon District Council
Green infrastructure	David Lowe	Warwickshire County Council
Police	Tim Sanders Andrew Morgan	Warwickshire Police
Fire & Rescue	Greg Pace Andrew Kelly Rachael Dimbleby	Warwickshire Fire and Rescue Service
Culture	Jasbir Kaur Ciaran Power	Warwickshire County Council



Ayub Khan Water/Drainage Peter Davies Water/Flood Risk Jane Field		
Water/Drainage	Peter Davies	Senior Commercial Development Advisor, Severn Trent Water
Water/Flood Risk	Jane Field Becky Clarke	Environment Agency

4.3 Infrastructure requirements and delivery

- 4.3.1 Following consultation a range of infrastructure needs have been identified for each site. As well as identifying specific items the following has also been set out:
 - Trigger points for infrastructure
 - Cost of infrastructure
 - Funding options for infrastructure provision
- 4.3.2 The tables in the following section set out a delivery plan in terms of infrastructure provision and pace of development for each of the potential strategic sites. An indication of the likely source of funding for each of the infrastructure items is also included. However, it is considered that whilst the report does indicate funding sources the decision of what will be identified as site specific mitigation and agreed through S106/S278 and what will be funded through CIL is ultimately a decision for the council and guided through national policy.
- 4.3.3 Whilst known infrastructure requirements have been identified these do vary from site to site according to the level of detail that has been provided by both site promoters and infrastructure providers. As sites progress through the planning process the level of detail will become more comprehensive. For examples some infrastructure such as leisure and play is an unknown quantity at this stage as this level of detail will become more apparent during an application phase. Therefore this has not been costed in the study. However, there is sufficient contingency throughout the assessment and buffer to take account of these unknown costs.
- 4.3.4 The site specific costs, housing trajectory and infrastructure triggers are all used to inform the viability assessment which is set out in Section 5 of this report.



Table 4.2 Infrastructure delivery, phasing, cost and funding - Gaydon/ Lighthorne Heath

Gaydon/Lighthorne Heath Infrastructure Trajectory

SCENARIO 1 - JLR extant plus Gaydon Lighthorne Heath housing only - no JLR employment assumed

		Phasing	0	0	120	170	170	170	170	170	170	170	170	170	170	170	170	170	170
		Running Total	0	0	120	290	460	630	800	970	1140	1310	1480	1650	1820	1990	2160	2330	2500
	CILor																		
Scheme Reference/Infrastructure Requirement	S106/S278	Cost (£ million)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/3
1. M40 Junction 12 northbound slip lane	S106/S278	3.00					3.00												
6. Widening of Fosse Way/Southam Road roundabout	S106/S278	0.50								0.50									
7. Contingency for localised impacts in villages only	S106/S278	2.50								2.50									
8. Fosse Way/Chesterton Road/Harbury Lane signals	S106/S278	0.40								0.40									
9. Right turn bay into access road to Meadow Close/Spinney Close off B4100 Chesterton Hill	S106/S278	0.10				0.10													
10. Signalisation of Greys Mallory	S106/S278	0.15								0.15									
13. A452 Banbury Road/Gallows Hill northbound flare/Warwick Technology Park roundabout	S106/S278	0.45										0.45							
15. Relocation and expansion of existing Lighthorne Heath Primary School	S106	2.25				2.25													
16. New primary school (2-3 FE) with co-located nursery x 2	S106	7.00								3.5					3.5				
17. Contribution to Kineton Secondary School	S106	13.00						6.5						6.5					
18. New 4 GP Facility (646 sqm)	S106	2.30							2.3										
19. Safer Neighbour Team Premise (potentially co-located)	S106	0.45										0.45							
20. Provision of public open space, children's play space and leisure.	S106	0.00																	
21. Provision or improvement of libraries and community meeting space	S106	1.90										1.9							
Total S106/278 Cost		34.00																	
12. Public open space and play/recreation and sport	CIL	-																	
23. Police staff recruitment, equipment and custody provision	CIL	0.29																	
Total Cost		34.29	0	0	0	2.35	3	6.5	2.3	7.05	0	2.8	0	6.5	3.5	0	0	0	0
Total S106/278		34.00	0	0	0	2.35	3	6.5	2.3	7.05	0	2.8	0	6.5	3.5	0	0	0	0

Notes:-

⁽c) The following estimates of when mitigation would be required are based on a high-level assessment of predicted highway network conditions in relation to the proposed housing trajectory

⁽d) Assuming (b), no more than 500 houses could be accommodated without Scheme 1 otherwise this number could potentially rise to 1,500 dwellings

⁽e) Scheme 9 would be required with 200 - 500 dwellings

⁽f) Schemes 6, 8 and 10 would be required with 1,000 dwellings

⁽g) Scheme 7 provides a contingency sum for schemes yet to be identified and is based on a rate of £1,000 per dwelling as adopted at the former Rugby Radio Station site

⁽h) Scheme 13 would be required with 1,250 - 1,500 dwellings



Table 4.3 Infrastructure delivery, phasing, cost and funding - Long Marston Airfield

Long Marston Infrastructure Trajectory

		Phasing	0	0	140	140	140			140		140	140	140	140	140	140	140	1/
		Running Total	0	0	140	280	420	560	700	840	980	1120	1260	1400	1540	1680	1820	1960	210
	CIL or																		
Scheme Reference/Infrastructure Requirement	S106/S278	Cost (£ million)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/3
1. A4390/B493 Evesham Place Roundabout	S106/S278	0.80								0.80									
2. Stratford Western Relief Road Southern Extension	S106/S278	20.0									20.0								
3. New primary school (2-3 FE) with co-located nursery x 2	S106	7.00						3.5						3.5					
4. Provision of Secondary School on site or expand Shipston	S106	20.00										20							
5. Provision of Sixth Form on Site or at Shipston Secondary School	S106	3.00										3							
6. Development of Meon Medical Centre site	S106	2.40										2.4							
7. Safer Neighbour Team Premise (potentially co-located)	S106	0.45										0.45							
8. Provision of public open space, children's play space and leisure.	S106	0.00																	
8. Provision or improvement of libraries and community meeting space	S106	1.90										1.9							
Total S106/2	78 Cost	55.55																	
	Developer																		
12. Public open space and play/recreation and sport	/CIL	-																	l
10. A3400 Alveston Manor and Shipston Road/A422 Banbury Road Roundabout	CIL	1.03																	
11. A3400 Bridgefoot/Bridgeway Gyratory	CIL	0.83																	
12. A3400 Shipston Road/B4632 Clifford Lane Roundabout	CIL	1.10																	
13. A3400 Shipston Road/A4390 Seven Meadows Road Roundabout	CIL	1.10																	1
14. A3400 Birmingham Road	CIL	1.70																	
15. A46/A3400 Bishopton Roundabout	CIL	2.50																	
16. A46/A422 Wildmoor Roundabout	CIL	2.50																	
17. Strategic Signing Improvements	CIL	1.00																	
18. Shakespeare Street/Mulberry Street one-way	CIL	0.20																	
19. A3400 Guild Street/Great William Street traffic signals	CIL	0.20																	
20. A46/A4239 Marraway Roundabout	CIL	0.15																	
21. Stratford Western Relief Road/B439 Evesham Road/Luddington Road Roundabout	CIL	0.50																	
22. A46/A4239 Marraway Roundabout	CIL	0.15																	
23. Contingency for unforeseen transport impacts	CIL	2.10																	
24. Police staff recruitment, equipment and custody provision	CIL	0.35																	
Tot	tal Cost	69.86	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.80	20.00	27.75	0.00	3.50	0.00	0.00	0.00	0.00	0.00
Total S1	106/278	55.55	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.80	20.00	27.75	0.00	3.50	0.00	0.00	0.00	0.00	0.00

Notes:-

- (a) The following estimates of when mitigation would be required are based on a high-level assessment of predicted highway network conditions in relation to the proposed housing trajectory
- (b) Scheme 1 would be required with 250 500 dwellings
- (c) Scheme 2 would be required with 500 1,000 dwellings
- (d) Scheme 3 is also required to accommodate the effects of change in traffic movements at this junction following the delivery of the Stratford Western Relief Road (SWRR) which will exacerbate issues which are likely to occur as result of the overall growth within the area
- (e) Schemes 4 and 5 are intrinsically linked and should be delivered as a single scheme. Implementation would need to follow the capacity improvements provided by Schemes 1 to 3
- (f) Scheme 6 is required to accommodate the additional vehicle demands released onto the network by Schemes 1 to 5
- (g) Schemes 7 and 8 should be considered for early implementation due to the strategic nature of the trips that are affected by development impact coupled with the need to ensure the operation of the A46 Strategic Road Network is maintained throughout the Core Strategy period
- (h) Scheme 9 would encourage traffic to use the A439 Warwick Road for inbound trips as an alternative to A3400 Birmingham Road where capacity is constrained
- (i) Schemes 10 to 13 would be required with > 1,600 dwellings
- (j) Scheme 15 provides a contingency sum for schemes yet to be identified and is based on a rate of £1,000 per dwelling as adopted at the former Rugby Radio Station site
- (k) Scheme 16 would be required with 1,000 dwellings



Table 4.4 Infrastructure delivery, phasing, cost and funding - Lower Farm Stoneythorpe

Stoneythorpe Infrastructure Trajectory

		Phasing	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	C
		Running Total	0	0	0	0	0	100	200	300	400	500	600	700	800	800	800	800	800
	CILor	-																	
Scheme Reference/Infrastructure Requirement	S106/S278	Cost (£ million)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
1. A423/A425 Banbury Road/Leamington Road roundabout widening	S106/S278	0.75												0.75					
2. A425/B4451 roundabout minor widening and signals	S106/S278	0.50													0.5				
3. A425 Southam Road/B4455 Fosse Way roundabout widening	S106/S278	0.50													0.5				
7. New primary school (1 FE)	S106	2.25										2.25							
5. Secondary School contributions	S106	8.00										8.00							
6. Village hall	S106	1.30										1.30							
7. Safer Neighbour Team Premise (potentially co-located)	S106	0.45										0.45							
8. Development of Southam Surgery Site	S106	2.20										2.20							
Total S106/278 Cost		15.95																	
	Developer/																		
9. Public open space and play/recreation and sport	CIL	=																	
10. Installation of a new circuit breaker and telecontrol at Harbury Primary and 6 No. 315kVA																			
distribution substations.	Developer	=																	
11. Localised mitigation in respect of acoustic fencing to provide increased noise containment	Developer	=																	
12. Contribution to leisure provision (off site)	CIL	1.00																	
13. Contingency for localised mitigation (e.g. in local villages such as Bishop's Itchington)	CIL	0.80										0.00							
14. Police recruitment, equipment and custody provision	CIL	0.06																	
Total Cost		17.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.20	0.00	0.75	1.00	0.00	0.00	0.00	0.00
Total \$106/278		15.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.20	0.00	0.75	1.00	0.00	0.00	0.00	0.00

⁽a) The following estimates of when mitigation would be required are based on a high-level assessment of predicted highway network conditions in relation to the proposed housing trajectory

⁽b) Schemes 1 and 2 would be required with 500-1,000 dwellings

⁽e) Scheme 3 provides a contingency sum for schemes yet to be identified and is based on a rate of £1,000 per dwelling as adopted at the former Rugby Radio Station site



Table 4.5 Infrastructure delivery, phasing, cost and funding - Southam North

Southam Infrastructure Trajectory

		Phasing	0	0	110	135	135	135	135	135	135	135	135	135	135	135	135	135	135
		Running Total	0	0	110	245	380	515	650	785	920	1055	1190	1325	1460	1595	1730	1865	2000
	CIL or																		
Scheme Reference/Infrastructure Requirement	S106/S278	Cost (£ million)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
1. A3400 Alveston Manor and Shipston Road/A422 Banbury Road Roundabout	S106/S278	0.50								0.50									
2. A423/A425 Daventry Road roundabout widening/reconfiguration	S106/S278	0.50								0.50									
3. A423/A425 Banbury Road/Leamington Road roundabout widening	S106/S278	0.75									0.75								
4. A425/B4451 roundabout minor widening and signals	S106/S278	0.50										0.50							
5. A425 Southam Road/B4455 Fosse Way roundabout widening	S106/S278	0.50										0.50							
6. A425 Radford Road/Wyles Road widening	S106/S278	0.25										0.25							
7. New primary school (2-3 FE) with co-located nursery x 2	S106	7.00						3.5						3.5					
8. Secondary School and Sixth form Contributions	S106	4.00						2						2					
9. Safer Neighbour Team Premise (potentially co-located)	S106	0.45										0.45							
10. Development of Southam Surgery Site	S106	2.20										2.2							
11. Community centre and Library	S106	1.90										1.9							
Total S106/278 Cost		18.55																	
	Developer/																		
12. Public open space and play/recreation and sport	CIL	-																	
13. Contamination costs	Developer	-																	
14. Contribution to leisure provision (off site)	CIL	2.40																	
15. Police recruitment and equipment	CIL	0.16																	
16. Contingency for localised mitigation (e.g. in local villages such as Bishop's Itchington)	CIL	2.00																	
Total Cost		23.11	0.00	0.00	0.00	0.00	0.00	5.50	0.00	1.00	0.75	5.80	0.00	5.50	0.00	0.00	0.00	0.00	0.00
Total S106/278		18.55	0.00	0.00	0.00	0.00	0.00	5.50	0.00	1.00	0.75	5.80	0.00	5.50	0.00	0.00	0.00	0.00	0.00

Notes:-

⁽a) The following estimates of when mitigation would be required are based on a high-level assessment of predicted highway network conditions in relation to the proposed housing trajectory

⁽b) Schemes 1 and 2 would be required with 500-1,000 dwellings

⁽c) Scheme 3 would be required with approx. 1,000 dwellings

⁽d) Schemes 4 to 6 would be required with > 1,000 dwellings

⁽e) Scheme 7 provides a contingency sum for schemes yet to be identified and is based on a rate of £1,000 per dwelling as adopted at the former Rugby Radio Station site



Table 4.6 Infrastructure delivery, phasing, cost and funding - South East Stratford

		Phasing	0	0	120	170	170	170	170	170	170	170	170	170	170	170	170	170	170
		Running Total	0	0	120	290	460	630	800	970	1140		1480			1990	2160		
	CIL or	Rulling Total	- 0	-	120	230	400	030	800	370	1140	1310	1400	1030	1020	1550	2100	2330	2300
Scheme Reference/Infrastructure Requirement		Cost (£ million)/year	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
1. A3400 Alveston Manor and Shipston Road/A422 Banbury Road Roundabout	S106/S278	1.03				1.03					-								
2. A3400 Bridgefoot/Bridgeway Gyratory	S106/S278	0.83						0.83											
3. Contingency for unforeseen transport impacts	S106/S278	2.50																	
4. Stratford Eastern Relief Road (Northern Section including bridge)	S106/S278	20.0								10.0	10.0								
5. New primary school (2-3 FE) with co-located nursery x 2	S106	7.00				3.5						3.5							
6. New Secondary School (4 to 5 FE) Several delivery options could be considered.	S106	23.00								11.5					11.5				
7. Contributions to Further education	S106	3.50										3.5							
8. New 4 GP Facility (646 sqm)	S106	2.30										2.3							
9. Provision of public open space, children's play space and leisure.	S106	0.00																	
10. Provision or improvement of libraries and community meeting space	S106	1.90										1.9							
11. Safer Neighbour Team Premise (potentially co-located)	S106	0.45									0.45					,			
Total S106/278 C	ost	62.51																	
12. Stratford Eastern Relief Road (Southern Section)	Other SI	30.0																	
	Developer	_																	
12. Public open space and play/recreation and sport	/CIL	-														, ,	1 1	, ,	l
14. A4390/B493 Evesham Place Roundabout	CIL	0.80																	
15. A3400 Shipston Road/B4632 Clifford Lane Roundabout	CIL	1.10																	
16. A3400 Shipston Road/A4390 Seven Meadows Road Roundabout	CIL	1.10																	<u> </u>
17. A3400 Birmingham Road	CIL	1.70																	
18. A46/A3400 Bishopton Roundabout	CIL	2.50																	
19. A46/A422 Wildmoor Roundabout	CIL	2.50																	
20. Strategic Signing Improvements	CIL	1.00														,			
21. Shakespeare Street/Mulberry Street one-way	CIL	0.20																	
22. Guild Street/Gt. William Street traffic signals	CIL	0.20																	
23. A46/A4239 Marraway Roundabout	CIL	0.40																	
24. Police recruitment, equipment and custody provision	CIL	0.40																	
Total C	ost	103.3	0	0	0	4.53	0	0.83	0	21.5	10.45	11.2	0	0	11.5	0	0	0	0
Total S106/2	78	62.51	0.00	0.00	0.00	4.53	0.00	0.83	0.00	21.50	10.45	11.20	0.00	0.00	11.50	0.00	0.00	0.00	0.00

Notes:-

- (a) The following estimates of when mitigation would be required are based on a high-level assessment of predicted highway network conditions in relation to the proposed housing trajectory
- (b) Scheme 1 would be required with 250 500 dwellings
- (c) Scheme 2 would be required with 500 1,000 dwellings
- (d) Scheme 3 is also required to accommodate the effects of change in traffic movements at this junction following the delivery of the Stratford Western Relief Road (SWRR) which will exacerbate issues which are likely to occur as result of the overall growth within the area
- (e) Schemes 4 and 5 are intrinsically linked and should be delivered as a single scheme. Implementation would need to follow the capacity improvements provided by Schemes 1 to 3
- (f) Scheme 6 is required to accommodate the additional vehicle demands released onto the network by Schemes 1 to 5
- (g) Schemes 7 and 8 should be considered for early implementation due to the strategic nature of the trips that are affected by development impact coupled with the need to ensure the operation of the A46 Strategic Road Network is maintained throughout the Core Strategy period
- (h) Scheme 9 would encourage traffic to use the A439 Warwick Road for inbound trips as an alternative to A3400 Birmingham Road where capacity is constrained
- (i) Schemes 10 to 12 would be required with > 1,600 dwellings
- (j) Scheme 13 provides a contingency sum for schemes yet to be identified and is based on a rate of £1,000 per dwelling as adopted at the former Rugby Radio Station site
- (k) Scheme 14 would be required with 1,000 dwellings

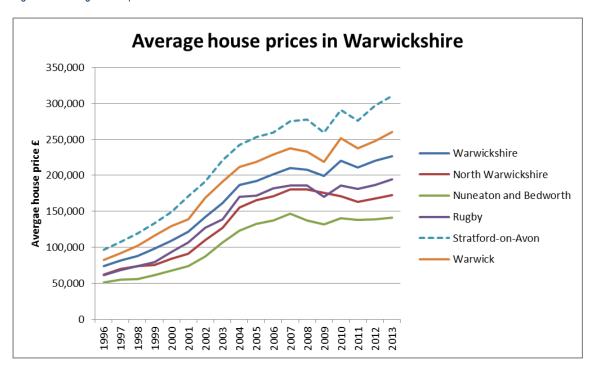


5 Market assessment and viability

5.1 Market overview

- 5.1.1 The housing market in Stratford-on-Avon District continues to outperform its neighbours in Warwickshire, with a widening gap between average house prices as shown in Figure 5.1. This is likely to reflect the typical larger properties associated with this area and its affluent location.
- 5.1.2 The peak of the last market cycle was in December 2007, when the average residential property price in Stratford-on-Avon was £276,000 and £222,000 across England. The impact of the financial crisis and resultant recession is also clear in Figure 5.1, with average values in Stratford-on-Avon falling to £264,000 by April 2009. Since that time, prices have been on a steady (if somewhat erratic) upwards trajectory, peaking in August 2010 before falling back and then up again. The most recent record suggests that average price in Stratford-on-Avon District was just over £300,000.

Figure 5.1 Average house prices in Warwickshire



- 5.1.3 Looking forward, the latest projections of house prices prepared by Savills in their Residential Property Focus (Q1 2014), shows a 23.4% increase in values over the next five years, which is slightly below their expectations for the UK which is at 25.2%. However, based on the characteristics of the local market, there may be some reason to suggest that Stratford-on-Avon will over-perform the regional average.
- 5.1.4 When looking at the markets within Stratford-on-Avon District there are distinctions as highlighted in the CIL Economic Viability Report, September 2013. The table below (5.1) shows average house prices over the last 12 months for 6 settlements in the district.



Table 5.1 Average house prices paid (new and secondhand market)

Settlement	Average price
Alcester	£237,000
Henley-in-Arden	£327,000
Shipston-on-Stour	£290,000
Southam	£248,000
Stratford-upon-Avon	£312,000
Studley	£199,000
Zoopla March 2014	

Zoopla March 2014

- 5.1.5 In common with the previous work undertaken values to the west in Studley and Alcester are lower than those in the central area around Stratford-upon-Avon, Henley-in-Arden and Shipston-on-Stour. Values to the east, illustrated here with Southam are in between the east and central value areas.
- 5.1.6 The previous work on the local housing market (CIL Economic Viability Report, September 2013) identified a per square metre value of £3,200 for dwellings within the strategic sites. The reasoning for using the same value for the strategic sites, despite the different locations was because the strategic sites would share similar characteristics and would be a different offer to what has previously come forward in the area in recent years in terms of scale in particular.
- 5.1.7 It is considered that the same principles should apply to this updated work for consistency, however as previously described there has been an improvement in values since the £3,200 was established. Therefore having looked at the market data from both Land Registry and property websites it is considered appropriate to add a modest increase of 1.5% to reflect the slight rise in the market. Therefore the value to be used in this assessment will be £3,250 per sq. m for market dwellings.

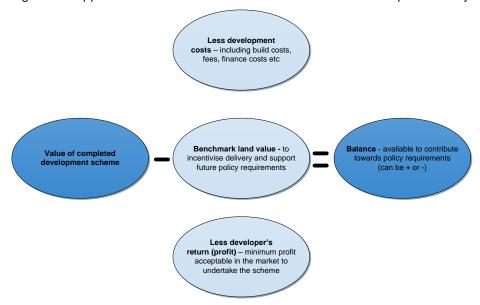
5.2 Approach used for the development viability appraisals

- 5.2.1 The PBA development viability model uses the residual approach to development viability. The approach takes the difference between the development values and costs and compares the 'residual land value' with a threshold land value to determine the balance that could be available to support policy costs such as affordable housing and infrastructure.
- 5.2.2 In the case of the strategic sites, the model has been adapted to test for a range of different infrastructure requirements and when they are required. This is then built into the cashflow modelling to assess viability through the lifetime of the development, where costs and returns will be flowing through the development cycle.
- 5.2.3 Where appropriate assumptions that were used in the CIL Economic Viability Report, September 2013 have been utilised as a baseline for consistency but these have been updated to reflect latest position on costs and values. It should also been noted that this report should be read in conjunction with the 2014 report on Plan Viability, including affordable housing, although the reports are consistent in terms of both approach and baseline assumptions.



5.2.4 The broad method is illustrated in the figure 5.2.

Figure 5.2 Approach to residual land value assessment for whole plan viability



- 5.2.5 The purpose of the assessment is to identify the balance available to pay for policy costs at which each of the potential strategic sites is financially viable.
- 5.2.6 Work in the previous stages provides an understanding of each of the sites and the required infrastructure to bring forward sustainable development. When added to a set of locally based assumptions on new-build sales values, threshold land values and developer profits, a set of potential strategic sites development viability assessments are produced.

5.3 Viability assumptions

5.3.1 Given that there has been little development in Stratford-on-Avon District at the scales proposed in the strategic sites, it is not always possible to get a perfect fit between a site, the site profile and cost/revenue categories. But a best fit in the spirit of the Harman Report guide has been attempted. For this, the viability testing requires a series of assumptions about the site coverage and floorspace mix to generate an overall sales turnover and value of land, which are discussed here. In addition, there are a number of residential cost assumptions that have been used, which are set out in detail in **Appendix A**. Residential appraisal summary sheets are set out in **Appendix B**.

Site coverage

- 5.3.2 The net (developable) area of the site informs the likely land value of a residential site. Typically, residential land values are normally reported on a per net hectare basis, since it is only this area which delivers a saleable return.
- 5.3.3 The net developable area has been arrived at through discussion with the council and the strategic site promoters representing these sites.

Sales area

5.3.4 In addition to density, the type and size of units is important because this informs overall revenue based on saleable floorspace, to generate an overall sales turnover. To derive saleable floorspace, the type of unit and size of these units need to be defined.



- 5.3.5 The type of unit has been based on assumptions that have been used and approved in other studies we have been involved. Details are shown in **Appendix A**.
- 5.3.6 Two floor areas are used for flatted schemes: the Gross Internal Area (GIA), including circulation space, is used to calculate build costs and Net Internal Area (NIA) is applied to calculate the sales revenue.

Sales values

- 5.3.7 Current residential revenues and other viability variables are obtained from a range of sources, including:
 - Generic websites, such as the RightMove and the Land Registry
 - Direct research with developers and agents operating in the area.
- 5.3.8 The details for these assumptions have been discussed in the market assessment section of this report and are shown below:
 - Houses £3,250 per sqm
 - Flats £2,143 per sqm
- 5.3.9 The appraisal assumes that variable levels of affordable housing, which will command a transfer value to a Registered Provider at the going rates:
 - Social rent 45%
 - Affordable rent 55%
 - Intermediate 65%
- 5.3.10 The current policy requirements of 60% social rented, 20% affordable rent and 20% intermediate (e.g. shared ownership) are assumed. The details for these assumptions are set out in a separate report on Affordable Housing Viability.

Threshold land values

- 5.3.11 To assess viability, the residual value generated by a scheme is compared with a threshold land value, which reflects 'a competitive return for a landowner' (as stated in Harman). The threshold land value is important in our calculations of the residual balance to pay for other policy and infrastructure costs to support a sustainable development. The difference between the threshold land value and the residual land value represents the amount of money available to contribute to affordable housing policy, S106/278 contributions or CIL.
- 5.3.12 The approach used to arrive at the threshold land value is based on a review of recent viability evidence of sites that are currently on the market, viability appraisal submissions, published data on land values and discussions with various stakeholders. The approach has been based on a top down approach of current market value and bottom up approach of existing use / alternative use values. Account has been taken of current and future policy requirements. This approach is in line with the Harman report and recent CIL examination reports which accept that authorities should work on the basis of future policy and its effects on land values and well as ensuring a reasonable return to a willing landowner and developer.
- 5.3.13 In collecting evidence on residential land values, a distinction has been made for sites that might reflect extra costs for 'opening up, abnormals and securing planning permission' from those which are clean or 'oven-ready' residential sites. Following discussion with the



promoters of the strategic sites a figure of £600,000 per net hectare is suggested as an appropriate figure at which to test viability, whilst providing a competitive return to a willing landowner.

5.3.14 It is important to appreciate that assumptions on threshold land values can only be broad approximations, subject to wide variations. This is taken account of in drawing conclusions and recommendations on whether sites are viable. For example it is acknowledged that the landowner at Stoneythorpe has indicated that a less than market value would be an acceptable return on the land, so this will be considered when drawing any conclusions on viability and deliverability of the site.

Build costs

- 5.3.15 The sources used for typical development costs include Build Cost Information Service (BCIS) build cost data rebased to the location. Approximations to represent the average over a range of scheme types have been used for costs such as external works, fees, finance and developers' margins and previously tested with the development sector.
- 5.3.16 Building costs are based on BCIS data for new builds over a 15 year period, which have been rebased to Stratford-on-Avon and first quarter 2014 prices using BCIS defined adjustments. This identified the following unit build costs:
 - Flats £993 sqm
 - Houses (general estate) £891sqm

The Council has policy towards improved building standards, these are considered below. Further associated development costs applied to the unit build costs for the potential strategic sites are shown in Table 5.2, and discussed below.

Table 5.2 Cost summary

Cost	Rate	Unit
External costs	10.0%	build cost
Extra over for Lifetime Homes	£500	per unit
Professional fees	12.0%	development costs
Contingency	5.0%	development costs
Sales costs	3.0%	GDV
Developers' profit on OM dwgs	20.0%	OM GDV
Developers' profit on AH dwgs	6.0%	AH GDV
Development costs finance (pa)	7.0%	-ve cashflow gap

External Works

5.3.17 This input incorporates all additional costs associated with the site curtilage of the built area, including circulation space in flatted areas and garden space with the housing units,



- landscaping costs comprises Highway trees and public open space, permeable paving, estate roads, and connections to the strategic infrastructure such as sewers and utilities.
- 5.3.18 The external works variable had been set at a rate of 10% of build cost in the absence of no detail costings data being available at this time.

Sustainability and building standards

- 5.3.19 In England, Building Regulations (Part L, 2013 effective from April 2014) have recently been amended to require emission reductions, to give an overall 6% improvement to 2010 standards. This standard is estimated to add approximately £450 in costs per home above the 2010 Building Regulation standards (this is based on the Government's Regulatory Impact Assessment findings). This increase is taken into account in the viability assessments.
- 5.3.20 Building Regulations are different to the requirements set out in the Code for Sustainable Homes (CfSH). The Code outlines a staged framework to improve the overall sustainability of new homes. In the past, there has been an intention to incorporate the requirements of the code with the Building Regulations. The government has recently intimated in the Building Standards Review that it wishes to simplify national standards and proposes to move away from the CfSH to a single system of standards.
- 5.3.21 Whilst the Government is no longer intending to support a range of standards in the future, they have indicated that they will allow local authorities, through planning policy, to seek improved building standards in their locations until revised regulations are place. For authorities wishing to incorporate this into planning policy, such as Stratford-on-Avon, this will have cost implications that will need to be considered. Further details in respect of the regulation change are anticipated in summer 2014.
- 5.3.22 A review of Government research on cost impacts of changes in building regulations and CfSH suggests that past forecasts of price changes (such as that predicted in the original Cyril Sweet work, 2010) have never affected costs to the extent forecast. In order to incorporate the cost into the model, we have used the latest advice on the additional cost of moving to CfSH 4 from Building Regulations Part L 2013 in an update from autumn 2013, by Davis Langdon to their original 2011 estimates that were published by DCLG. The CfSH sets standards above Part L. The increased requirements for Part L that come into force in April 2014 will still mean that an increase is required in standards to meet CfSH Level 4. The update shows an increase on build costs of 2.5%, which is a substantial reduction on previous estimates.
- 5.3.23 Similar to the Building Regulations the Government is also reviewing space standards and is currently considering a national voluntary policy on space standards. The details of this have yet to be published. The emerging Core Strategy policy also requires improved space standards and until such a time as a national policy is in place will apply a requirement for new dwelling to be compliant with Lifetime Homes standards. The extra over cost of new buildings meeting Lifetime Homes standards will range widely according to housing type, although typically the average cost is around £300 to £500 per dwelling. Based on a level of uncertainty, the high end value is assumed.
- 5.3.24 It is recognised that building standards are under constant review both in terms of resource reduction and space. However the guidance is quite clear that unless there is a clear policy framework for future changes, assumptions should be based on current costs and values. Therefore, the assessments take into account Council policy on implementing CfSH 4 and Lifetimes homes but not beyond as there is no certainty in respect of the future regulations at this time.



Professional Fees

5.3.25 For a scheme of this nature, significant professional fees will be required. This input incorporates all professional fees associated with the build, including: architect fees, planner fees, surveyor fees, project manager fees at 12% of build cost.

Contingency

5.3.26 For schemes of this nature and at this early planning stage, it is normal to build in contingency based on the risk associated with each site and has been calculated based on industry standards. They are applied as a percentage of build costs at 5%.

Marketing Fees

5.3.27 The Gross Development Value needs to reflect additional sales cost assumptions, which have been set out in Section 5. These costs relate to the costs incurred for disposing the completed residential units, including legal, agents and marketing fees, and are based on the average cost of marketing for a major new build development site. These are based on industry accepted scales established from discussions with developers and agents at the rate of 3% of open market GDV.

Developers' Profit

5.3.28 The developers' profit is the expected and reasonable level of return that a private developer would expect to achieve from a specific development scheme. In relation to these sites the open market residential dwellings elements are assumed to achieve a profit of 20%, which is applied to their Gross Development Value (GDV). This also allows for internal overheads. For the Affordable Housing element, because they will have some, albeit lower, risks to the developer a lower 6% profit margin is assumed for the private house builders on a nil grant basis. This is applied to the below market GDV of the AH residential dwelling development.

Finance

5.3.29 A monthly cashflow based on a finance cost of 7% has been used throughout the sites appraisals, as identified in the above costs assumptions. This is used to account for the cost of borrowing and the risk associated with the current economic climate and near term outlook and associated implications for the housing market. This is a typical rate which is being applied by developers to schemes of this nature

S106 infrastructure costs, site opening costs and abnormal costs

5.3.30 For each strategic site, a different approach has been adopted for s106. In consultation with infrastructure providers, the council and the promoters we have estimated the likely site specific s106 or s278 infrastructure requirements necessary for each of the strategic sites (to allow for onsite infrastructure such as education and transport costs). These S106 costs assumptions have been factored into the viability assessment as a cost input for each site. The amount of S106/S278 for each site is shown in Table 5.3



Table 5.3 S106/S278 contributions applied for the potential strategic sites

Site	S106/S278	Affordable housing
Gaydon/Lighthorne Heath	£13,600	35%
		(60%SR, 20%AR, 20%IM)
A and	£26,452	35%
Long Marston Airfield	323, 102	(60%SR, 20%AR, 20%IM)
Lower Farm Stoneythorpe	£19,937	35%
Lower Farm George and pe	210,007	(60%SR, 20%AR, 20%IM)
Southam North	£9,275	35%
Southam North	20,210	(60%SR, 20%AR, 20%IM)
South East Stratford	£25,004	35%
John Edot Gridright	220,007	(60%SR, 20%AR, 20%IM)

SR – Social rent; AR – Affordable rent; IM – Intermediate

5.3.31 The viability appraisals for the strategic sites includes an allowance for site opening costs to allow for costs such as spine roads, utilities, strategic landscaping/green infrastructure, drainage systems and the like. Also included are costs associated with demolitions and land remediation. In consultation with the site promoters and infrastructure providers the following costs have been identified in Table 5.4.

Table 5.4 Opening up contributions applied for the potential strategic sites

Site	Opening up costs per dwelling
Gaydon/Lighthorne Heath	£17,849
Long Marston Airfield	£7,143
Lower Farm Stoneythorpe	£18,000
Southam North	£15,000
South East Stratford	£12,000

5.3.32 The figures for S106/S278 and opening up costs are indicative at this stage as none of the sites have reached a detailed planning stage. Once detailed master-planning is undertaken



there will be a better understanding of these various costs (site opening costs, site abnormals, and strategic infrastructure such as schools, highways etc.) to inform site specific assessments. However, they are considered to be sufficiently detailed to demonstrate plan wide viability.

Land Purchase Costs

- 5.3.33 The land value needs to reflect additional purchase cost assumptions. These are based on surveying costs and legal costs to a developer in the acquisition of land and the development process itself, which have been established from discussions with developers and agents, and are also reflected in the Harman Report (2012) as industry standard rates.
- 5.3.34 A Stamp Duty Land Tax is payable by a developer when acquiring development land. This factor has been recognised and applied to the residual valuation as percentage cost based on the HM Customs & Revenue variable rates against the residual land value.
- 5.3.35 These inputs are incorporated into the residual valuation land value.

Table 5.5 Land Purchase Costs

Land purchase costs	Rate	Unit
Surveyor's fees	1.00%	land value
Legal fees	0.75%	land value
Stamp Duty Land Tax	HMRC rate	land value
Development finance for land purchase (pa)	7.00%	land value

5.4 Strategic site assessment outputs

- 5.4.1 Although the purpose of this report is not to set the level of CIL to apply to the strategic sites, the calculation of a potential CIL it is a useful test by which the strategic sites can be assessed in comparison which each other. The previous work on CIL only tested three of the five potential strategic sites and the level of information to inform assessments at that time was not as detailed.
- 5.4.2 The following is an explanation of how to interpret the information contained in the summary appraisal table. Reading the tables from left to right, successive columns are as follows:
 - Site typology
 - Yield the number of dwellings estimated for the site.
 - The overage or residual value expressed as £per sq.m. The residual site value is the difference between the value of the completed development and the cost of that development (including the developer's profit, policy costs, site servicing costs, etc).
 - The threshold land value is then deducted from the residual land value to arrive at the CIL balance or 'overage' available to contribute towards any infrastructure costs in the form of a possible maximum CIL charge. This CIL balance is an estimate of the CIL 'maximum theoretical CIL' i.e. the maximum CIL that could be charged consistent with the development being financially viable. Given the variations surrounding strategic viability appraisals, this is an approximate indicator, and as such we seek to have a considerable



buffer between the overage and any CIL charge. It is not recommended that this theoretical maximum be directly translated into a CIL charge.

- The traffic light colour coding is used to show if a scheme is considered to be viable (green), marginal (amber is stated as being unviable, but is actually within 20% of the threshold value) or not viable (red). Note it is important to state that a scheme may come out as not viable in this assessment but still deliver depending on the what the landowner and developer are willing to accept, so for instance the threshold land value could be reduced or the developer's return could be adjusted, or actual build costs or other assumption variables maybe be differ from that used here.
- 5.4.3 Note that the CIL overage is not a direct calculation of deducting the threshold value from the residual land value. As affordable housing is not liable to CIL charge, an allowance for this is included in the analysis. The CIL overage/ or CIL liable figure is calculated from the CIL chargeable floor area (total GIA minus GIA of affordable units).

5.5 The viable position

5.5.1 Based on current development values and costs, including the purchase price for land, the build costs, S106/S278 contributions, and an affordable housing rate of 35%, all the sites are viable, with a varying degree of financial headroom left over for the CIL, which will support the delivery of the wider necessary infrastructure in Stratford-on-Avon and beyond to enable the housing target to be deliverable.

Table 5.6 Viability assessment of potential strategic sites

		Affordable	Residual				
Site typology	Dwellings	housing	land value	Benchmark		Headro	oom
	No.	%	Per Ha	Per Ha	Per Ha	Per Sqm	CIL liable Sqm
Long Marston Airfield (SS)	2,100	35%	£923,550	£600,000	£323,550	£113	£169
South East Stratford (SS)	2,500	35%	£858,230	£600,000	£258,230	£82	£122
Gaydon-Lighthorne Heath (SS)	2,500	35%	£869,782	£600,000	£269,782	£94	£141
Stoneythorpe (SS)	800	35%	£997,609	£600,000	£397,609	£143	£214
Southam (SS)	2,000	35%	£1,177,668	£600,000	£577,668	£164	£246

Note dwelling numbers are to 2031

5.5.2 The potential site at Southam North shows the most viability, however whilst we have made allowance for some land remediation on this formally worked area there may be further costs associated with development when detailed surveys have been undertaken. The lowest headroom can be found at South East Stratford which is not surprising given the high infrastructure costs associated with bring this forward as a strategic site. Stoneythorpe, Long Marston and Lighthorne Heath are also viable with headroom ranging from £269,000 – £397,000 per net hectare.



6 Delivery

- 6.1.1 Each site has been assessed in respect of its prospects to come forward over the plan period in terms of the market, infrastructure requirements and broad viability to deliver a sustainable development that will meet the supply needs of Stratford-on-Avon. This assessment is drawn together in the following section which sets out, in accordance with the NPPF, the delivery prospects of each potential strategic site in terms of whether it is 'deliverable' and 'developable'. For each site the anticipated numbers of dwellings which are deliverable and developable are set out. For the purposes of this report deliverable, i.e. first five years is considered from the anticipated adoption of the Plan in 2015.
- 6.1.2 This report does not seek to recommend one potential site over another as this is a decision for the council and will include a number of factors in addition to aspects around delivery. Instead we set out delivery in the context of the NPPF and the risks associated with identifying each of the sites to contribute to the delivery the council's required housing numbers.

6.2 Gaydon/Lighthorne Heath

- 6.2.1 Gaydon/Lighthorne Heath has reduced in size in respect of the number of dwelling anticipated to come forward as a result of JLR requiring a substantial part of the site for expansion. However, the site is still of sufficient size to significantly contribute in meeting the council's supply.
- 6.2.2 The council and the promoter both consider that 2,500 dwellings can be delivered within the plan period. This requires an annual average delivery rate of around 170 dwellings per year or 14 per month. Given the relatively buoyant market in Stratford-on-Avon District and the demand for new dwellings in the local market, this is considered as realistic and achievable, especially when compared to other areas, which have matched and exceeded this pace of development.
- 6.2.3 The reduction in the number of dwellings has meant that the infrastructure requirements associated with population growth have reduced. However, some infrastructure is required to enable the development to commence and the costs of these will have risen on a per dwelling basis. Whilst there is substantial infrastructure requirements these are not as significant as some of the other potential strategic sites. The timing of any infrastructure should not hold up the pace of development and should be provided in a timely fashion to support the phases of development. Potentially one of the largest costs would have been the junction improvements to Junction 12 on the M40. However, most of the costs associated with the improvements are being funded through the 'Pinchpoint' funding, which has been granted, with work due to start shortly thus not effecting delivery of the new community.
- 6.2.4 Therefore infrastructure provision is not considered a risk on this site and in terms of timing or funding the required infrastructure. The viability assessment shows that there is sufficient value in the development to provide the entire required infrastructure, affordable housing at 35% and a contribution to CIL to help fund wider infrastructure needs for Stratford-on-Avon.
- 6.2.5 The site is being actively promoted and our understanding is that agreements are in place with the landowners to bring forward the site for development. It is considered that there is sufficient evidence to suggest the potential strategic site at Gaydon Lighthorne Heath can contribute around 2,500 dwellings of which:
 - 600 dwellings in the first five years (assuming first completions in 2016)
 - 1900 dwellings year 6 to the end of the plan period
- 6.2.6 Therefore, Gaydon/Lighthorne Heath is both deliverable and developable over the plan period.



6.3 Long Marston Airfield

- 6.3.1 The council consider that 2,100 dwellings can be delivered within the plan period, although the promoter has indicated a scheme of up to 3,500 could eventually come forward. The promoter suggests that 3,500 dwelling could be built out over 20 years with a start date of 2017, which would mean approximately 1,000 dwellings to come forward beyond the plan period. At this pace of development it would mean around the same delivery in terms of the number of dwellings at 2,500 by 2031 as Gaydon/Lighthorne Heath. In market terms this is considered realistic, given the Stratford-on-Avon buoyant market and the existing demand for new dwellings. However, this will need to be considered in terms of infrastructure provision.
- The infrastructure requirements for Long Marston Airfield are more significant than 6.3.2 Gaydon/Lighthorne Heath as the completed development will need both a southern bypass for Stratford-upon-Avon and a new secondary school. These items alone have significant costs attached in excess of £20m each. However it is the south west bypass in particular that has the largest potential impact on delivery. The county council have indicated that the need for the bypass is triggered at 1,000 dwellings. At the proposed pace of development this would mean that the road will need to be in place by around 2022. However, this is reliant on the completion of the Western Relief Road in order to provide the necessary link to the A46. The promoter has indicated that it is in discussions with landowners in respect of a potential route for the scheme, although these are at an early stage. Assuming the plan is adopted in 2015 there will be around 7 years to agree alignment, secure the necessary land agreements and construct the road. The County Council have indicated that this timetable is challenging albeit achievable but with any road scheme of this scale, particularly as it requires completion of a road outside of the control of both the council and promoter, a river crossing and is potentially in close proximity to an ecologically sensitive site (Racecourse SSSI) there is uncertainty over delivery until the relevant permissions and finances are in place. If the road is not delivered then only 1,000 dwellings will come forward, meaning the council will be short of its supply requirements.
- 6.3.3 Therefore whilst it is considered that the infrastructure requirements are not insurmountable there is a risk to the council in terms of delivery. In terms of viability, the assessment shows that there is sufficient value in the development to provide the entire required infrastructure, affordable housing at 35% and a contribution to CIL to help fund wider infrastructure needs for Stratford-on-Avon.
- 6.3.4 The site is in single ownership with an active promoter and it is considered that there is sufficient evidence to suggest the potential strategic site at Long Marston can contribute 2,100 2,500 dwellings over the plan period, subject to the construction of both the Shottery Road and the south west bypass. However, as at least 1,000 dwelling can come forward this is not an issue in terms of demonstrating a deliverable supply of which:
 - 400 600 dwellings in the first five years (assuming first completions in 2016)
 - 1,600 1900 dwellings year 6 to the end of the plan period, subject to bypass construction
- 6.3.5 Therefore, Long Marston is deliverable but there is uncertainty as to whether it is developable over the longer period.

6.4 Lower Farm, Stoneythorpe

6.4.1 Lower Farm, Stoneythorpe is substantially smaller than the other potential strategic sites and would therefore have to come forward either with another site or as a reserve site if there are issues with delivery elsewhere that delay their implementation.



- 6.4.2 The council and the promoter both consider that 800 dwellings can be delivered on the proposed site within the plan period. This can be comfortably delivered within the plan period and a variety of rates of delivery, however for the purposes of this assessment it has been assumed that the development could come forward at an annual average of around 100 dwellings per year assuming two outlets. Given the relatively buoyant market in Stratford-on-Avon District and the existing demand for new dwellings, this is considered as realistic and achievable.
- As a relatively small site the infrastructure requirements are not significant when compared to the other potential strategic sites; however it will require a new primary school. There is an area of flood risk in the eastern part of the site which reduces the developable area; however this is not significant enough to reduce the number of dwellings. Whilst there are no show stoppers in terms of infrastructure requirements to bring the site forward for development there is uncertainty in respect of the construction of the High Speed Two (HS2) railway network. The route of HS2 is on the northern boundary of the site and would effectively sever the development from its access. Whilst the promoter has indicated there are solutions to any access issues in terms of both the construction phases of Lower Farm and HS2, no agreements are yet in place. Due to the uncertainty of HS2 and the construction period for Lower Farm it is suggested that the council do not rely on Lower Farm in terms of a deliverable supply in the first five years of the Plan.
- 6.4.4 Therefore whilst it is considered that the construction issues are not insurmountable there is a risk to the council in terms of delivery. However, in terms of viability, the assessment shows that there is sufficient value in the development to provide the entire required infrastructure, affordable housing at 35% and a contribution to CIL to help fund wider infrastructure needs for Stratford-on-Avon.
- 6.4.5 The site is being actively promoted by the landowner, and there is no evidence to suggest that there would be any difficulty in attracting a developer. It is also noted that the landowner is not seeking a housing market return for the land, therefore there is considerable scope within the viability to promote a high quality development and overcome any site issues. It is considered that there is sufficient evidence to suggest the potential strategic site at Lower Farm, Stoneythorpe can contribute around 800 dwellings, subject to satisfactory access arrangements with HS2, of which:
 - 800 dwellings from year 6 to the end of the plan period
- 6.4.6 Therefore, Lower Farm, Stoneythorpe is developable over the plan period.

6.5 Southam North

- 6.5.1 Southam North is smaller than the other potential strategic sites, apart from Stoneythorpe and therefore may not deliver the required amount of development unless a wider area is considered or it could come forward either with another site or as reserve site if there are issues with delivery elsewhere that delay their implementation.
- 6.5.2 The council and the promoter initially considered that 1,700 2,000 dwellings can be delivered on the proposed site within the plan period. The higher figure has been used for testing and shown that this can be delivered within the plan period with a variety of rates of delivery, however for the purposes of this assessment it has been assumed that the development could come forward at an annual average of around 135 dwellings per year assuming three or four outlets. Given the relatively buoyant market in Stratford-on-Avon District and the existing demand for new dwellings, this is considered as realistic and achievable.
- 6.5.3 As the site is located between two existing settlements the infrastructure requirements on the site are not significant. Whilst the promoters do not envisage any issues with delivery, as a former worked area there is always a risk in bringing forward development, but until detailed investigations are undertaken these will not be known. However given the experience of the



- promoter in bringing forward similar sites elsewhere we are assured that development is feasible on this type of site.
- 6.5.4 Infrastructure provision is not considered a risk on this site in terms of timing or funding the required infrastructure. The viability assessment shows that there is sufficient value in the development to provide the entire required infrastructure, affordable housing at 35% and a contribution to CIL to help fund wider infrastructure needs for Stratford-on-Avon. As there is substantial overage it is considered that this de-risks the element of the unknown if construction costs are higher than tested because of any required unforeseen remediation.
- 6.5.5 The site is being actively promoted and our understanding is that agreements are in place with the other landowner to bring forward the site for development. It is considered that there is sufficient evidence to suggest the potential strategic site at Southam North can contribute around 1,700 dwellings of which around:
 - 350 dwellings in the first five years
 - 1600 plus dwelling year 6 to the end of the plan period
- 6.5.6 Therefore, Southam North is both deliverable and developable over the plan period.

6.6 South East Stratford

- 6.6.1 The council consider that 2,500 dwellings could potentially be delivered within the plan period in terms of the size of the proposed area. This requires an annual average delivery rate of around 170 dwellings per year or 14 per month. Given the relatively buoyant market in Stratford-on-Avon District and the existing demand for new dwellings, this is considered as realistic and achievable, especially when compared to other areas, which have matched and exceeded this pace of development.
- 6.6.2 South East Stratford is subject to the highest infrastructure costs of all the strategic sites as it will have to be able to bring forward a south east bypass and a new secondary school, which are expensive items of infrastructure. The south east bypass in particular has the largest potential impact on delivery. The county council have indicated that the need for the bypass is triggered at 1,000 dwellings. At the proposed pace of development this would mean that the road will need to be in place by around 2022. The proposed route is significantly longer than the south west bypass option and there is no evidence that any of the promoters of the South East Stratford area have undertaken any preparatory work as to the feasibility of such a scheme including any landowner constraints. Assuming the plan is adopted in 2015 there will be around 7 years to agree alignment, secure the necessary land agreements and construct the road. The county council have indicated that this timetable is challenging albeit achievable but with any road scheme of this scale, particularly as it requires a river crossing and third party land agreements, there is uncertainty over delivery until the relevant permissions and finances are in place. If the road is not delivered then only 1,000 dwellings will come forward, meaning the council will be short of its supply requirements.
- 6.6.3 Therefore whilst it is considered that the infrastructure requirements are not insurmountable there is a risk to the council in terms of delivery. In terms of viability, the assessment shows that there is sufficient value in the development to provide the entire required infrastructure, affordable housing at 35% and a contribution to CIL to help fund wider infrastructure needs for Stratford-on-Avon.
- 6.6.4 Unlike the other potential strategic sites, where there is evidence of agreed positions in terms of promotion and landownership, there does not seem to be any joint promotion of South East Stratford. Whilst two of the promoters have indicated a willingness to work together there is no evidence to suggest that this has happened or that the other land owners are on board. It is also of note that planning applications are being pursued within the strategic site so whilst



there is an appetite for development in this location this is not being done comprehensively. Whilst viability is not an apparent issue, if all the site is considered the situation may change if piecemeal development comes forward without any contributions to the strategic infrastructure and thus make per dwelling requirements greater.

- 6.6.5 Therefore, whilst there is potential for South East Stratford to be both deliverable and developable, the council should be mindful that piecemeal development and uncertainties over delivery of the south east bypass mean that there is some uncertainty. Subject to a comprehensive approach and the road being deliverable it is considered that South East Stratford could contribute around 2,500 dwellings of which:
 - 600 dwellings in the first five years (assuming first completions in 2016)
 - 1900 dwellings year 6 to the end of the plan period
- 6.6.6 Therefore, subject to the caveats identified South East Stratford is both deliverable and developable over the plan period.



Appendix A Viability assumptions

Assumption	Source	ID	Notes									
Scenarios	004.00		110100									
Goonaneo		This m	ix of schemes was selected in discussion with the clien	t group, making use of								
		Ref	Typology	Settlement	Land type			Gross area (ha)	Net area (ha	Total	dwnh	B-space (sqm)
		18	Long Marston Airfield (SS)	Central	Strategic site	G	reenfield	110.00	59.65	2,100	35	_ opuso (oq)
Residential	Consultation	19	South East Stratford (SS)	Central	Strategic site		reenfield	120.00	64.17	2,500	39	_
development	with client	20	Gaydon-Lighthorne Heath (SS)	Central	Strategic site		reenfield	133.00	71.12	2,500	35	_
typology	With Chent	21	Stoneythorpe (SS)	Central	Strategic site		reenfield	40.00	23.43	800	34	-
		22	Southam (SS)	Central	Strategic site		rownfield	85.00	46.27	2.000	43	-
			Averages	Central	Strategic site	ь	rowniieid	65.00	56%	2,000	37	
Mix type	Assumed	Eveent	for the CQ sites, unit size distribution is taken from the	GL Horno Coventry and	d Manuickshira S	HMA (Nov 201	2) Tables 09 8 00		30 /8		31	
wiix type	Assumed	Ехсері	for the CQ sites, unit size distribution is taken from the	GL Herrie Coveritiy and		lwelling type				ALI dural	ling type (%)	
					OW C	iweiling type	(70)		1-2 bed	An awei	iiig type (%)	
				1-2 bed Fla		bed house	3 bed house	4+ bed house		2 had have	3 bed house	4+ bed house
		Ref	T	1-2 bed Fia 5.00		35.00%	3 Dea nouse 40.00%	4+ bed nouse 20.00%	17.5%	2 bed nouse 37.5%	3 Dea nouse 37.5%	4+ bed nouse 7.5%
		18	Typology Long Marston Airfield (SS)	5.00		35.00% 35.0%	40.00% 40.0%	20.00%	17.5% 17.5%	37.5% 37.5%	37.5% 37.5%	7.5% 7.5%
		19		5.0		35.0%	40.0%		17.5%		37.5%	7.5%
			South East Stratford (SS)					20.0%		37.5%		
		20	Gaydon-Lighthorne Heath (SS)	5.0		35.0%	40.0%	20.0%	17.5%	37.5%	37.5%	7.5%
		21	Stoneythorpe (SS)	5.0		35.0%	40.0%	20.0%	17.5%	37.5%	37.5%	7.5%
		22	Southam (SS)	5.0		35.0%	40.0%	20.0%	17.5%	37.5%	37.5%	7.5%
Unit sizes	Industry		ential floorspace is based upon industry standards of ne									
	standard	(NI	 A) is applied to calculate the sales revenue. For the small 	ill housing sites (up to 5	5 units) larger dw	ellings are deliv	vered in the boroug	h, with medium and	d larger sites d	elivering more	'standard' unit si:	zes, we have
			Private									
			Private sale	Flats (NIA)		55 sc						
			Private sale	Flats (GIA)		65 sc						
			Private sale	2 bed house		70 sc						
			Private sale	3 bed house		80 sc						
			Private sale	4+ bed house		120 sc	q m	=,				
			Affordable units									
			Social rent	Flats (NIA)		55 sc						
			Social rent	Flats (GIA)		65 sc	q m					
			Social rent	2 bed house		70 sc	q.m					
			Social rent	3 bed house		80 sc	q m					
			Social rent	4+ bed house		120 sc	q m					
			Affordable rent	Flats (NIA)		55 sc	q m	='				
			Affordable rent	Flats (GIA)		65 sc	q m					
			Affordable rent	2 bed house		70 sc	q m					
			Affordable rent	3 bed house		80 sc	q m					
			Affordable rent	4+ bed house		120 sc						
			Intermediate	Flats (NIA)		55 sc	q m					
			Intermediate	Flats (GIA)		65 sc	q m					
			Intermediate	2 bed house		70 sc	q m					
			Intermediate	3 bed house		80 sc	q m					
			Intermediate	4+ bed house		120 sc	q m					
		The Co	ouncil targets an affordable housing rate of 35% on scher	mes of 5 dwellings or me	ore. The policy a	also states an o	overall balance of 6	0% social rent. 20°	% affordable re	nt and 20% for	intermediate aff	ordable tenures.
Residential	Council policy		3	3								
scenarios												
			Threshold	1	0 Units							
						1	Type		Affo	rdable tenure	split	
							Private	Affordable			Intermediate	
			f Typology				65%	35%	60%	20%	20%	
			3 Long Marston Airfield (SS)		00 Units		65%	35%	60%	20%	20%	
			South East Stratford (SS)		00 Units		65%	35%	60%	20%	20%	
			Gaydon-Lighthorne Heath (SS)		0 Units		65%	35%	60%	20%	20%	
		2	1 Stoneythorpe (SS)	80	0 Units		65%	35%	60%	20%	20%	
		22	2 Southam (SS)	2,00	0 Units		65%	35%	60%	20%	20%	
			•						•			
Dallay acata				Apply?								
Policy costs			CSH Level 4 (applies to sites >0.3ha or with 10+ units			2.5% bu	uild cost					
			Lifetime homes + BR2013	Yes	•	£953 pe	er unit			Calculat	e	
		_										



Assumption Construction Costs	Source	Notes	· .	•			
		Residential build costs are based upon					
		Chartered Surveyors (RICS). The data i specification.					
	BCIS Quarterly		Small housebo	uilder	Lar	ge house builder	
	Review of Building Prices		<	4	Lui	dwgs	
Build costs	online version	Private		7		dwgs	
	accessed March 2013. Prices	Flats –		£993		£993 sqm	
	rebased to the district.	Houses (general estate) –		£1,257		£891 sqm	
	district.	Affordable	_				
		Flats – Houses (general estate) –	₹	£993 £1,257		£993 sqm £891 sqm	
		,				,	
Plot external	Industry standards	Plot externals relate to costs for intern the following rate:	nal access roads, hard and	soft landscaping. This wi	II vary from site	to site, but we have allowe	ed for this
TOT OXIOTICAL		-	10% Build cost				
		Developing greenfield, brownfield and	Land type	erent risk and costs. These	costs can vary	significantly depending or	n the site
Site abnormals			Brownfield Mixed		£200,000 per £100,000 per		
			Greenfield			net ha	
Professional fees	Industry	Professional fees relate to the costs inc	curred to bring the develop	ment forward and cover ite	ms such as: su	vevs. architects, quantity	survevor
Totocoloriai 1000	standards	Troisectorial local totals to the decis in	12% Build cost	mont formale and cover no		royo, aronnooto, quantity	ou.ioyo.
Contingency	Industry standards	Contingency is based upon the risk ass		d has been calculated as a	percentage of I	build costs at	
	Stariuarus		5% Build cost				
Sale costs	Industry standards	Sale costs relate to the costs incurred on industry accepted scales at the follow		ed residential units, includi	ng legal, agents	and marketing tees. Thes	se are bas
	Standards		3% Gross Develop	oment Value			
	Industry	When testing for development viability i					
inance costs	Industry standards	Advice for planning practitioners and RI based upon market rates of interest as		anning guidance note GN9	4/2012. Within o	our cashtlow we used a fin	ance rate
		· ·	7% Development of		- Faor '	tod with the lead	n or- !
Professional fees on	Industry	In addition to SDLT the purchaser of lar upon the following industry standards:	nd will incur professional fe	ees relating to the purchase	e. Fees associa	ted with the land purchase	e are bas
and purchase	standards	Surveyor - Legals -		1.00% 0.75%			
		Stamp Duty Land Tax (SDLT) is general	ally payable on the purchas		r land in the UK	where the amount paid is	above a
		certain threshold. The SDLT rates are b	by Treasury, the following r	rates current rates have be			
Stamp duty on land ourchase	HMRC	<= >	£150,000 £150,000	0.00% 1.00%			
		>	£250,000	3.00%			
Profit		>	£500,000	4.00%			
		A developer's return is based upon their to, development type (e.g. Greenfield, E					
		worthiness of developer, and current ma		,,		, , ,,	
		The Harmen Report states that "resider	ntial developer margin expr	ressed as a percentage of	GDV - should be	e the default methodology	" and
		E.2.3.8.1 of the RICS Financial viability					
		We have applied a rate that is acceptal	ble to both developers and	financial institutions in the	current market.	The developer return is a	Gross
Developer's return	Industry standards	Margin and therefore includes overhead	ls. The developer return is	calculated as a percentage	e of Gross Devel	opment Value at the follow	wing rate:
	Stariuarus	Developer return on market housin	na		20% Gro	oss development value	
		Return on affordable housing	-9			oss development value	
		A lower margin has been applied to the	a affordable units as these	renresent less develonmer	it rick as the en	duser is known at noint of	ıf
		construction. This approach is also typ	ical with industry standard	s. The Homes and Commi	unity Agency (H	CA) state 'Conventional pro	ractice is
		allow for developer's margin at a lower redevelopment of open market housing. T					
Revenue					a typioc	gara, so ar are regr	21 0/0
		Property values are derived from differer For housing, Land Registry and Rightm			full record of all	individual transactions V	/alues us
Sales value of	Land			, provides a	House	Flats	
completed scheme	Registry/Rightm ove Brochures	Private sale Private sale	West East		£2,650 £2,850	£2,143 sqm £2,143 sqm	
	2.2 D.OOHuro3	Private sale	Central		£3,250	£2,143 sqm	
		The current percentage requirement for	affordable housing is X% of	on sites with X+ new dwell	ngs. The impac	t of residential tenure can	affect the
		impact of this policy, and we have assu					
		Transfer value			45%		
		Social rent	West		£1,193	£964 sqm	
		Social rent Social rent	East Central		£1,283 £1,463	£964 sqm £964 sqm	
Affordable housing	Industry		Central			2004 aqiil	
(Section 106)	standards	Transfer value Affordable rent	West		55% £1,458	£1,179 sqm	
		Affordable rent	East		£1,568	£1,179 sqm	
		Affordable rent	Central		£1,788	£1,179 sqm	
		Transfer value			65%		
		Intermediate Intermediate	West East		£1,723 £1,853	£1,393 sqm £1,393 sqm	
		Intermediate	Central		£2,113	£1,393 sqm	
Benchmark land value	e per ha	It is important to appreciate that assum	nptions on benchmark land	values can only be broad	approximations		of
		uncertainty. We take account of this ur			ons from our ana	alysis. We have examined	a cross
						to to urban, brownfield cite	
	Land Registry 9	section of residential land comparables were fully serviced with roads and majo	across Swale. These com	nparable recent transaction			
Residential land values	Land Registry & UK Land	were fully serviced with roads and majo between sites that deliver flats and hou	across Swale. These com or utilities to the site bound using sites - this is due to d	nparable recent transaction lary. In collecting evidence development densities, and	on residential la sites values tha	and values, we aimed to die at might reflect extra costs	istinguish s for oper
Residential land values	UK Land Directory	were fully serviced with roads and majo between sites that deliver flats and hou up and planning permission from those	across Swale. These com or utilities to the site bound using sites - this is due to d	nparable recent transaction lary. In collecting evidence development densities, and	on residential la sites values tha	and values, we aimed to die at might reflect extra costs	istinguish s for oper
Residential land values	UK Land	were fully serviced with roads and majo between sites that deliver flats and hou up and planning permission from those not yet be permitted)	a across Swale. These comor utilities to the site bound using sites - this is due to do which are clean residential	nparable recent transaction lary. In collecting evidence development densities, and al sites. The figure we use	on residential la I sites values tha reflect a fairly c	and values, we aimed to di at might reflect extra costs lean residential site (altho	istinguish s for oper ough it ma
esidential land values	UK Land Directory	were fully serviced with roads and majo between sites that deliver flats and hou up and planning permission from those	a across Swale. These comor utilities to the site bound using sites - this is due to do which are clean residential	nparable recent transaction lary. In collecting evidence development densities, and al sites. The figure we use	on residential la I sites values tha reflect a fairly c	and values, we aimed to di- at might reflect extra costs lean residential site (altho g under the affordable hou	istinguish s for oper ough it ma using



Appendix B Viability assessments



	or Central	2,50	Units					ODO
TEM let Site Area	71 Greenfi	eld		Residual Value 869782.389	e per net ha			peterbr
et Site Area	71 Greeni	eia		869782.389	per net na			
ield		Private 1625.00	Affordable 875.00	Social rent 525.00	Intermediate S 175.00	hared ownership 175.00		
.0	Development Value							
.1	Private units Flats (N	IA)		No. of units 81.25	Size sq.m 55	Total sq.m 4,469	£psm £2,143	Total Value £9,576,531
	2 bed he 3 bed he	ouse		568.75 650.00	70 80	39,813 52,000	£3,250 £3,250	£129,390,625 £169,000,000
	4+ bed	house		325.00 1,625.0	120 <u></u>	39,000 135,281	£3,250	£126,750,000
.2	Social rent Flats (N	IA)		No. of units 91.88	Size sq.m 55	Total sq.m 5,053	£psm £964	Total Value £4,872,981
	2 bed he 3 bed he	ouse		196.88 196.88	70 80	13,781 15,750	£1,463 £1,463	£20,155,078 £23,034,375
	4+ bed	house		39.38 525.0	120	4,725 39,309	£1,463	£6,910,313
.3	Affordable rent	IA)		No. of units 30.63	Size sq.m 55	Total sq.m 1,684	£psm £1,179	Total Value £1.985,289
	2 bed he 3 bed he	ouse		65.63 65.63	70 80	4,594 5,250	£1,788 £1,788	£8,211,328 £9,384,375
	4+ bed			13.13 175.0	120	1,575	£1,788	£2,815,313
.3	Intermediate	14.		No. of units		Total sq.m	£psm	Total Value
	Flats (N 2 bed he 3 bed he	ouse		30.63 65.63 65.63	55 70 80	1,684 4,594 5,250	£1,393 £2,113 £2,113	£2,346,250 £9,704,297 £11,090,625
	4+ bed			13.13	120	1,575	£2,113	£3,327,188
	Gross Development value	•						£538,554,567
0	Development Cost							
1	Site Acquisition							
1.1	Site value (residual land val	ue)						£61,862,441
						Purchaser Costs		5.7500%
								65,419,531
3	Build Costs							
3.1	Private units Flats (G	:(Δ):		No. of units 81.25	Size sq.m 65	Total sq.m 5,281	Cost per sq.m £993	Total Costs £5,244,281.25
	2 bed he 3 bed he	ouse		568.75 650.00	70 80	39,813 52,000	£891 £891	£35,472,937.50 £46,332,000.00
	4+ bed			325.00 1,625	120	39,000 136,094	£891	£34,749,000
.3.2	Affordable units			No. of units	Size sq.m	Total sq.m	Cost per sq.m	Total Costs
	Flats (G 2 bed he 3 bed he	ouse		153.13 328.13 328.13	65 70 80	9,953 22,969 26,250	£993 £891 £891	£9,883,453.13 £20,465,156.25 £23,388,750.00
	4+ bed			65.63	120	7,875 67,047	£891	£7,016,625.00
				2500.00				£182,552,203
4	Construction Costs							
.4.1	External works as a percen	tage of build	costs		10%			£18,255,220.31
.4.2	Site opening up costs		SI - Remainder of Br	ookbank costings	£17,849 p	er unit		£44,623,000
			S106/S278		£13,600 p	er unit		£34,000,080
.5	Professional Fees							£96,878,300
.5.1	as percentage of build cost:	s			12%			£21,906,264
					<u>, </u>			£21,906,264
6	Contingency							
6.1	as percentage of build cost	S			5%			£9,127,610
7	Developer contributions							£9,127,610
.7.3	CSH Level 4 (applies to site	s >0.3ha or	with 10+ units, whichev	er is the higher)	2.5% b	uild cost		£4,563,805
.7.5	Lifetime homes + BR2013					er unit		£2,382,500
								£6,946,305
8	Sale cost							
8.1	as percentage of GDV				3.00%			£16,156,637
	TOTAL DEVELOPMENT C	OSTS (incl	uding land)					£16,156,637 £398,986,851
.0	Developers' Profit	_U.U (IIIUI						2030,300,001
.1	Private units					ross development value		£86,943,431
2	Affordable units				6% G	ross development value		£6,230,245
								£93,173,676
	TOTAL INCOME. TOTAL							£492,160,527
0	TOTAL INCOME - TOTAL Finance Costs	COSTS [EX	CLUDING INTEREST]					£46,394,040
U					APR 7.00%		PCM 0.565%	-£46,394,040
.1	Finance				7.00%		0.30376	-£46,394,040
	Finance				7.00%		0.50578	-140,394,040



Long Marston A	ii Central	2,10	0 Units					^	~
ITEM									echcett
Net Site Area	59.65	Greenfield	3	£923,550	per net ha]		■pet	- Orect
	Units	Private	Affordable	Social rent	Intermediate	Shared ownership			
Yield	2,100		735.00	441.00	147.00	147.00			_
1.0	Development Va	alue							
1.1	Private units	Flats (NIA)		No. of units	Size sq.m 55	Total sq.m	£psm £2,143	Total Value £8,044,286	_
		2 bed house 3 bed house		68.25 477.75 546.00	70 80	3,754 33,443 43,680	£3,250 £3,250	£8,044,286 £108,688,125 £141,960,000	
		4+ bed house		273.00 1,365.0	120	32,760	£3,250	£106,470,000	
1.2	Social rent			No. of units	Size sq.m	Total sq.m	£psm	Total Value	
	ooda rom	Flats (NIA) 2 bed house		77.18 165.38	55 70	4,245 11,576	£964 £1,463	£4,093,304 £16,930,266	
		3 bed house 4+ bed house		165.38 33.08	80 120	13,230 3,969	£1,463 £1,463	£19,348,875 £5,804,663	
		TO DOG TIOGOS		441.0		33,020	21,400	20,004,000	
1.3	Affordable rent	Flats (NIA)		No. of units 25.73	Size sq.m 55	Total sq.m 1,415	£psm £1,179	Total Value £1,667,642	7
		2 bed house 3 bed house		55.13 55.13	70 80	3,859 4,410	£1,788 £1,788	£6,897,516 £7,882,875	
		4+ bed house		11.03	120	1,323	£1,788	£2,364,863	
1.3	Intermediate			No. of units	Size sq.m	Total sq.m	£psm	Total Value	
		Flats (NIA) 2 bed house		25.73 55.13	55 70	1,415 3,859	£1,393 £2,113	£1,970,850 £8,151,609	
		3 bed house 4+ bed house		55.13 11.03	80 120	4,410 1,323	£2,113 £2,113	£9,316,125 £2,794,838	
				147.0)	11,007			
	Gross Developm	ent value						£452,385,836	
2.0	Development Co	ost							
2.1	Site Acquisition								
2.1.1	Site value (residua	al land value)						£55,090,339	
						Purchaser Costs		5.7500%	
								58,258,033	
2.3	Build Costs								
2.3.1	Private units			No. of units	Size sq.m	Total sq.m	Cost per sq.m	Total Costs	_
		Flats (GIA) 2 bed house		68.25 477.75	65 70	4,436 33,443	£993 £891	£4,405,196.25 £29,797,267.50	
		3 bed house 4+ bed house		546.00 273.00	80 120	43,680 32,760	£891 £891	£38,918,880.00 £29,189,160	
				1,365		114,319			
2.3.2	Affordable units	Flats (GIA)		No. of units 128.63	Size sq.m 65	Total sq.m 8,361	Cost per sq.m £993	Total Costs £8,302,100.63	
		2 bed house 3 bed house		275.63 275.63	70 80	19,294 22,050	£891 £891	£17,190,731.25 £19,646,550.00	
		4+ bed house		55.13 735	120	6,615 56,319	£891	£5,893,965.00	
				2100.00				£153,343,851	
2.4	Construction Co					_			
2.4.1	External works as	s a percentage of build	costs		10%	_		£15,334,385.06	
2.4.2	Site opening up c	osts	SI - Remainder of Cala H	omes costings for	V £7,143	per unit		£15,000,000	
			S106/S278		£26,452	per unit		£55,550,016	
								£85,884,401	
2.5	Professional Fee	es .				_			_
2.5.1	as percentage of	build costs			12%			£18,401,262	
2.6	Contingency							£18,401,262	
2.6.1	as percentage of	build costs			5%	7		£7,667,193	7
	,							£7,667,193	
2.7	Developer contr	ibutions						. , ,	
2.7.3	CSH Level 4 (app	lies to sites >0.3ha or v	with 10+ units, whichever is	the higher)	2.5%	build cost		£3,833,596	
2.7.5	Lifetime homes +	BR2013			£953	per unit		£2,001,300 £5,834,896	
2.8	Sale cost								
2.8.1	as percentage of	GDV			3.00%			£13,571,575	
								£13,571,575	
3.0	Developers' Pro	PMENT COSTS (inclu fit	ding land)					£342,961,211	
3.1	Private units				20%	Gross development value		£73,032,482	
3.2	Affordable units				6%	Gross development value		£5,233,405	
								£78,265,888	
	TOTAL PROJEC	T COSTS [EXCLUDING	G INTEREST]					£421,227,099	
		- TOTAL COSTS [EXC		-	-		-	£31,158,737	
4.0	Finance Costs		-		APR		PCM		
4.1	Finance				7.00%		0.565%	-£31,158,737	
		T COSTS [INCLUDING				u pipe i ii ii		£452,385,836	
						the RICS valuation guidance. The			PACT OF



Stoneythorpe (S	Central	800	Units					\sim	20
ITEM								U	JU
Net Site Area	23.4	Greenfield	7	Residual Value £997,609 per net ha				■pete	Suprett
not one saca	20.4	Giocimeia	_	2007,000 por norma					7
VI-1-1	Units	Private	Affordable	Social rent		Shared ownership			╛
Yield	800	520.00	280.00	168.00	56.00	56.00			
1.0	Development Val	ue							
1.1	Private units	Flats (NIA)		No. of units 26.00	Size sq.m 55	Total sq.m 1,430	£psm £2,143	Total Value £3,064,490	٦
		2 bed house 3 bed house		182.00 208.00	70 80	12,740 16,640	£3,250 £3.250	£41,405,000 £54,080,000	4
		4+ bed house		104.00	120	12,480	£3,250	£40,560,000	Ⅎ
				520.0		43,290			
1.2		Flats (NIA)		No. of units 29.40	Size sq.m 55	Total sq.m 1,617	£psm £964	Total Value £1,559,354	
		2 bed house 3 bed house		63.00 63.00	70 80	4,410 5,040	£1,463 £1,463	£6,449,625 £7,371,000	_
		4+ bed house		12.60	120	1,512	£1,463	£2,211,300]
1.3	Affordable rent			No. of units	Size sq.m	Total sq.m	£psm	Total Value	
1.5		Flats (NIA)		9.80	55	539	£1,179	£635,292	7
		2 bed house 3 bed house		21.00 21.00	70 80	1,470 1,680	£1,788 £1,788	£2,627,625 £3,003,000	
		4+ bed house		4.20	120	504 4,193	£1,788	£900,900	_
1.3	Intermediate			No. of units	Size sq.m	Total sq.m	£psm	Total Value	
		Flats (NIA) 2 bed house		9.80 21.00	55 70	539 1,470	£1,393 £2,113	£750,800 £3,105,375	7
		3 bed house 4+ bed house		21.00	80	1,680	£2,113	£3,549,000 £1,064,700	4
		4+ bed flouse		4.20	120	4,193	£2,113	£1,064,700	_
	Gross Developme	nt value						£172,337,461	
2.0									
2.0	Development Cos	st							
2.1	Site Acquisition								
2.1.1	Site value (residual	land value)						£23,376,153]
						Purchaser Costs		5.7500%	
								24,720,282	
2.3	Build Costs								
				No. of coults	01	T-1-1	0	T-1-1 01-	
2.3.1		Flats (GIA)		No. of units 26.00	Size sq.m 65	Total sq.m 1,690	Cost per sq.m £993	Total Costs £1,678,170.00]
		2 bed house 3 bed house		182.00 208.00	70 80	12,740 16,640	£891 £891	£11,351,340.00 £14,826,240.00	-
		4+ bed house		104.00	120	12,480 43,550	£891	£11,119,680	
2.3.2	Affordable units			No. of units	Size sq.m	Total sq.m	Cost per sq.m	Total Costs	
2.0.2		Flats (GIA) 2 bed house		49.00 105.00	65	3,185	£993 £891	£3,162,705.00	7
		3 bed house		105.00	70 80	7,350 8,400	£891	£6,548,850.00 £7,484,400.00	_
		4+ bed house		21.00	120	2,520 21,455	£891	£2,245,320.00	_
				800.00				£58,416,705	
2.4	Construction Cost	s							
2.4.1	External works as a	a percentage of build of	costs		10%]		£5,841,670.50	
						_			_
2.4.2	Site opening up cos	sts	SI - Remainder of EC Ha	rris costings	£18,000	per unit		£14,400,000	┙
			S106/S278		£19,937	per unit		£15,949,992	
								£36,191,663	
2.5	Professional Fees	8				_			
2.5.1	as percentage of bu	uild costs			12%			£7,010,005]
2.6	Contingency							£7,010,005	
						-			_
2.6.1	as percentage of bu	uild costs			5%			£2,920,835	
2.7	Developer contrib	outions						£2,920,835	
2.7.3	CSH Level 4 (applied	es to sites >0.3ha or v	vith 10+ units, whichever is	the higher)	2.5%	build cost		£1,460,418]
2.7.5	Lifetime homes + B	3R2013			£953	per unit		£762,400]
								£2,222,818	
2.8	Sale cost					_			_
2.8.1	as percentage of G	DV			3.00%			£5,170,124	
								£5,170,124	
2.0	TOTAL DEVELOP	MENT COSTS (include	ding land)					£136,652,431	
3.0	Developers' Profit					-			
3.1	Private units				20%	Gross development value		£27,821,898	_
3.2	Affordable units				6%	Gross development value		£1,993,678	_
								£29,815,576	
	TOTAL PROJECT	COSTS [EXCLUDING	INTEREST]					£166,468,007	
	TOTAL INCOME -	TOTAL COSTS [EXC	LUDING INTEREST]					£5,869,454	
4.0	Finance Costs		-		APR		PCM		
4.1	Finance				7.00%]	0.565%	-£5,869,454]
	TOTAL PROJECT	COSTS [INCLUDING	INTEREST]					£172,337,461	
This appraisal has	s been prepared by P	eter Brett Associates	for the Council. The apprai	sal has been prepa	ared in line with	the RICS valuation guidance. The	e purpose of the appraisal is	to inform the Council about the imp	act of
pranning policy ha	as on vability at a str	rategic level. This appr	raisal is not a formal 'Red B	ook' (RICS Valuation	on – Professiona	il Standards January 2014) valua	tion and should not be relied	upon as such.	



Southam (SS)	Central	2,000	Units					obo
ITEM				Residual Value	,			peterbrett
Net Site Area	46.27	Brownfield		£1,177,668	per net ha			
Yield	Units 2,000	Private 1300.00	Affordable 700.00	Social rent 420.00	Intermediate 140.00	Shared ownership 140.00		
1.0	Development Valu	ue						
1.1	Private units			No. of units	Size sq.m	Total sq.m	£psm	Total Value
		Flats (NIA) 2 bed house		65.00 455.00	55 70	3,575 31,850	£2,143 £3,250	£7,661,225 £103,512,500
		3 bed house 4+ bed house		520.00 260.00	80 120	41,600 31,200	£3,250 £3,250	£135,200,000 £101,400,000
				1,300.0		108,225	,	
1.2	Social rent	Flats (NIA)		No. of units 73.50	Size sq.m 55	Total sq.m 4,043	£psm £964	Total Value £3.898.385
		2 bed house 3 bed house		157.50 157.50	70 80	11,025 12,600	£1,463 £1,463	£16,124,063 £18,427,500
		4+ bed house		31.50	120	3,780	£1,463	£5,528,250
1.3	Affordable rent			No. of units		Total sq.m	£psm	Total Value
		Flats (NIA) 2 bed house		24.50 52.50	55 70	1,348 3,675	£1,179 £1,788	£1,588,231 £6,569,063
		3 bed house 4+ bed house		52.50 10.50	80 120	4,200 1,260	£1,788 £1,788	£7,507,500 £2,252,250
		44 bed flodse		140.0		10,483	21,700	12,202,200
1.3	Intermediate	Fire (NIA)		No. of units		Total sq.m	£psm	Total Value
		Flats (NIA) 2 bed house 3 bed house		24.50 52.50 52.50	55 70 80	1,348 3,675 4,200	£1,393 £2,113 £2.113	£1,877,000 £7,763,438 £8,872,500
		4+ bed house		10.50	120	1,260	£2,113 £2,113	£8,872,500 £2,661,750
				140.0	J	10,483		
	Gross Developme	nt value						£430,843,653
2.0	Development Cost	t						
2.1	Site Acquisition							
2.1.1	Site value (residual	land value)						£54,495,342
						Purchaser Costs		5.7500%
								57,628,824
2.3	Build Costs							
				No. of coults	01 ·	T-4-1	01	Total Contr
2.3.1		Flats (GIA)		No. of units 65.00	Size sq.m 65	Total sq.m 4,225	Cost per sq.m £993	Total Costs £4,195,425.00
		2 bed house 3 bed house		455.00 520.00	70 80	31,850 41,600	£891 £891	£28,378,350.00 £37,065,600.00
		4+ bed house		260.00 1,300	120	31,200 108,875	£891	£27,799,200
2.3.2	Affordable units			No. of units	Size sq.m	Total sq.m	Cost per sq.m	Total Costs
		Flats (GIA) 2 bed house		122.50 262.50	65 70	7,963 18,375	£993 £891	£7,906,762.50 £16,372,125.00
		3 bed house 4+ bed house		262.50 52.50	80 120	21,000 6,300	£891 £891	£18,711,000.00 £5,613,300.00
				700)	53,638		
2.4	Construction Costs			2000.00				£146,041,763
						1		
2.4.1		a percentage of build	costs		10%			£14,604,176.25
2.4.2		nediation/demolition)			£200,000	<u>.</u>		£9,254,789
2.4.2	Site opening up cos	sts	SI - utilities			per unit		£30,000,000
			S106/S278		£9,275	per unit		£18,549,984
2.5	Professional Fees							£72,408,949
2.5.1	as percentage of bu				12%	1		£17,525,012
	ao porcentage of Du	00010			14/0			£17,525,012
2.6	Contingency							£11,020,012
2.6.1	as percentage of bu	uild costs			5%			£7,302,088
								£7,302,088
2.7	Developer contrib							
2.7.3			with 10+ units, whichever is	the higher)		build cost		£3,651,044
2.7.5	Lifetime homes + B	R2013			£953	per unit		£1,906,000
2.8	Sale cost							£5,557,044
2.8.1	as percentage of GI	DV			3.00%]		£12,925,310
								£12,925,310
_	TOTAL DEVELOPM	MENT COSTS (inclu	ding land)					£319,388,989
3.0	Developers' Profit		<u> </u>					
3.1	Private units				20%	Gross development value		£69,554,745
3.2	Affordable units				6%	Gross development value		£4,984,196
								£74,538,941
	TOTAL PROJECT	COSTS [EXCLUDING	3 INTEREST]					£393,927,930
			CLUDING INTEREST]					£36,915,723
4.0	Finance Costs				APR		PCM	
4.1	Finance				7.00%]	0.565%	-£36,915,723
		COSTS [INCLUDING						£430,843,653
This appraisal har planning policy har	s been prepared by P as on viability at a stra	eter Brett Associates ategic level. This appl	for the Council. The appraisal is not a formal 'Red Be	sal has been prepa ook' (RICS Valuation	ared in line with t on – Professiona	ne RICS valuation guidance. Th I Standards January 2014) valua	e purpose of the appraisal is tion and should not be relied	to inform the Council about the impact of upon as such.
-						•		



South East Strat	Central	2,500	Units					ah	~
ITEM	-								u
Net Site Area				Residual Value £858,230 per net ha				peterbr	rett
Net Site Area	0.4	Greenneid		2030,230	per necha	1			
	Units	Private	Affordable	Social rent		Shared ownership			
Yield	2,500	1625.00	875.00	525.00	175.00	175.00			
1.0	Development Va	lue							
1.1	Private units	Flats (NIA)		No. of units 81.25	Size sq.m 55	Total sq.m 4,469	£psm £2,143	Total Value £9,576,531	
		2 bed house		568.75	70	39,813	£3,250	£129,390,625	
		3 bed house 4+ bed house		650.00 325.00	80 120	52,000 39,000	£3,250 £3,250	£169,000,000 £126,750,000	
				1,625.0		135,281			
1.2	Social rent	Flats (NIA)		No. of units 91.88	Size sq.m 55	Total sq.m 5,053	£psm £964	Total Value £4,872,981	
		2 bed house 3 bed house		196.88 196.88	70 80	13,781 15,750	£1,463 £1,463	£20,155,078 £23,034,375	
		4+ bed house		39.38	120	4,725	£1,463	£6,910,313	
				525.0			_		
1.3	Affordable rent	Flats (NIA)		No. of units 30.63	55	Total sq.m 1,684	£psm £1,179	Total Value £1,985,289	
		2 bed house 3 bed house		65.63 65.63	70 80	4,594 5,250	£1,788 £1,788	£8,211,328 £9,384,375	
		4+ bed house		13.13 175.0	120	1,575	£1,788	£2,815,313	
1.3	Intermediate			No. of units		Total sq.m	£psm	Total Value	
		Flats (NIA) 2 bed house		30.63 65.63	55 70	1,684 4,594	£1,393 £2,113	£2,346,250 £9,704,297	
		3 bed house		65.63	80	5,250	£2,113	£11,090,625	
		4+ bed house		13.13 175.0	120	1,575	£2,113	£3,327,188	
-	Gross Developme	ent value						£538,554,567	
2.0									
2.0	Development Co	5 .							
2.1	Site Acquisition								
2.1.1	Site value (residua	I land value)						£55,074,374	
						Purchaser Costs		5.7500%	
								58,241,151	
2.3	Build Costs								
2.3.1	Private units			No. of units	Size sq.m	Total sq.m	Cost per sq.m	Total Costs	
2.3.1	riivate uiits	Flats (GIA)		81.25	65	5,281	£993	£5,244,281.25	
		2 bed house 3 bed house		568.75 650.00	70 80	39,813 52,000	£891 £891	£35,472,937.50 £46,332,000.00	
		4+ bed house		325.00 1,625	120	39,000 136,094	£891	£34,749,000	
2.3.2	Affordable units			No. of units	Size sq.m	Total sq.m	Cost per sq.m	Total Costs	
		Flats (GIA) 2 bed house		153.13 328.13	65 70	9,953 22,969	£993 £891	£9,883,453.13 £20,465,156.25	
		3 bed house 4+ bed house		328.13 65.63	80 120	26,250 7,875	£891 £891	£23,388,750.00 £7,016,625.00	
				875		67,047			
2.4	Construction Cos	4-		2500.00				£182,552,203	
2.4	Construction Cos	ots .							
2.4.1	External works as	a percentage of build of	costs		10%]		£18,255,220.31	
2.4.2	Site abnormals (re	mediation/demolition)			£0	per net ha		£0	
2.4.2	Site opening up co	osts	SI - utlilities		£12,000	per unit		£30,000,000	
			S106/S278		£25,004	per unit		£62,509,992	
								£110,765,212	
2.5	Professional Fee	s							
2.5.1	as percentage of b	ouild costs			12%]		£21,906,264	
2.6	Contingency							£21,906,264	
						-			
2.6.1	as percentage of b	ould costs			5%			£9,127,610	
2.7	Developer contri	butions						£9,127,610	
2.7.1	CIL				£0	per unit		£0	
2.7.2	Affordable housing	contribution				per unit		£0	
2.7.3			vith 10+ units, whichever is	the higher)		build cost		£4,563,805	
2.7.5	Lifetime homes +		or anno, willonever is	(ingrioi)		per unit		£2,382,500	
	Lifetime nomes +	BR2013				jper unit		£2,362,500	
2.7.4	-				£0	1-			
2.8	Sale cost							£6,946,305	
2.8.1	as percentage of C	BDV			3.00%	7		£16,156,637	
								£16,156,637	
	TOTAL DEVELOR	PMENT COSTS (include	ling land)						
3.0	Developers' Prof		y ianuj					£405,695,383	
3.1	Private units				20%	Gross development value		£86,943,431	
3.2	Affordable units				6%	Gross development value		£6,230,245	
								£93,173,676	
	TOTAL PERSON	CORTE ISVE:	INTEREST						
		COSTS [EXCLUDING						£498,869,059	
4.0	TOTAL INCOME - Finance Costs	TOTAL COSTS [EXC	LUDING INTEREST]					£39,685,508	
4.1	Finance				APR 7.00%	1	PCM 0.565%	-£39,685,508	
1					7.0078		3.00070		
This appraisal bar		COSTS [INCLUDING		sal has been pro	red in line with	he RICS valuation quidance. The	surpose of the appraisal in	£538,554,567 to inform the Council about the impact of	
planning policy ha	as on viability at a st	trategic level. This appr	aisal is not a formal 'Red B	ook' (RICS Valuatio	n – Professiona	Standards January 2014) valuation	n and should not be relied	upon as such	



Appendix C Lower Farm, Stoneythorpe

Site ref	Settlement	Size (ha)		
Lower Farm, Stoneythorpe	Southam	37ha		
Site Address	Type of site			
Land near Lower Farm, Stoneythorpe, Southam, CV47 2DL	Greenfield	Greenfield		
Current/previous land use	Planning stat	us		
Agriculture	No planning history			
Description of site		-		

The site is located approximately 1.2km outside of Southam centre along the A425 that connects Southam to Royal Leamington Spa. It comprises predominantly of agriculture land to the south of Lower Farm, which is currently the headquarters for the software producers Codemasters. The land is owned by the founder of the software company that currently exists adjacent to the site, who proposes to create a new, self-sufficient settlement in the vicinity to the company building in the surrounding farmland. The proposed village centre would include a mix of shops and services to local residents including bars, cafés and restaurants. The promoted opportunity would also provide other infrastructure such a primary school and pre-school facility. Neighbouring the proposal there is currently a landfill site owned by Biffa located towards the south west which is separated by a woodland area. The woodland area is exempt from the proposal however much of the landfill site has been remediated with a view to creating a country park near to the south and south west of the proposed development.

Planning history

There is no planning history for the proposed site.

Policy context/ Restrictions

The site is on previously undeveloped land, containing grade 3 agricultural land which would be lost if developed. The site is located in the open countryside and would currently contravene policy as it is outside the development boundary.

Physical constraints

The site is constrained in the north by the A425, and in the West by woodland that separates the site from a landfill site that has ceased operation. The site is also dissected by a public right of way spanning diagonally from the North through to the West of the site. The River Itchen dissects the site North to South and a proportion of the land either side of the river is within the Flood Risk zone 2. A potential constraint on the site is the proposed line of the HS2 that is planned to tunnel along the north of the site south of the A425. This therefore is likely to have an impact on access to the site as direct access to the A425 will require careful consideration.

Potential impacts

The 'Feasibility Study – Air and Noise', carried out by Mayer Brown, assessed the suitability of the site given the proximity of the A425 and found that noise levels would not adversely affect the site. The study indicated that as baseline noise data are not yet available for HS2 the precise effect cannot yet be calculated however the masterplan for development intends to be designed in such a way as to mitigate these potential impacts. According to the 'Archaeology and Cultural Heritage Note', the site does not contain any designated heritage assets. There is only very limited evidence to suggest Prehistoric or Roman activity in the wider area. The Landscape Sensitivity Study states that the site is well contained visually within its landscape context due it's topography and the surrounding hedgerows and woodland. There are limited to no views into the site from a south or south-westerly direction due to existing woodland. The Ecological Study (2012) identifies the presence of a number of important species and habitats on the site that would necessitate further specie/habitat specific studies.

Suitability summary

The site benefits from being located next to an important employer in the district and would therefore offer some degree of sustainability in terms of job provision. The site is considered to be located away from existing services located in Southam, so provision would need to be made on site to address these issues. It is considered that the site is capable of careful design to address, HS2, flood impacts and site access and that the site is in principle a suitable option.

Availability summary

Viability and Deliverability of Strategic Sites Stratford-on-Avon District Council



The owner has confirmed that the land is available immediately for development. The proposed HS2 offers a potential concern to availability. Site access to the proposal directly crosses the line of HS2 and requires provision of a temporary access and careful timing of delivery. From communication with HS2, the promoter states that access arrangements for the site are acceptable to HS2 Ltd in principle, however HS2 Ltd have requested that the current scheme be redesigned in a manner that takes into account their plans. If achieved, HS2 Ltd have stated that they would be unlikely to object to the site.

Market appraisal / Achievability

The site is a greenfield location that is attractive for private developers. The market for housing in this area is relatively buoyant, underpinned by high sales values of between £2700/sq.m - £3800/sq.m. Land values range from about £2.5m/ha (before deductions for planning obligations and abnormal costs), which is high enough to ensure that planning obligations packages, including affordable housing, as well as abnormal development costs, can be delivered without either threatening the viability of the scheme, or falling below any existing use value. Land values have fallen from the 2007-peak, as a result of the current economic downturn, with many schemes being delayed, but market conditions have improved, and most sites in Stratford-on-Avon District are viable. In the case of this site the owner has stated that he is not seeking to profit from offering this land for redevelopment.

Yield summary

The developer intends to provide a development of 800 homes. The site extends to approximately 37 ha and, assuming a typical net to gross ratio of 55% and an indicative density of 30 dwellings per hectare would indicate a potential number of dwellings in the order of 610 dwellings. The indicative land budget includes 45% for landscaping, transport infrastructure, open space and associated community, education facilities.

Conclusion

Development in this location would be outside defined settlement boundaries, but the site is otherwise considered potentially suitable and available for the creation of a new settlement in principle. The site is relatively unconstrained with the exception of HS2 and flood issues, which would need further consideration. The site is available and considered to be a potentially developable option for a strategic development. The site should be considered further.



