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APPENDIX I

SLAA Viability Study



Chelmsford SLAA

Viability Study – Final Report

On behalf of **Chelmsford City Council**

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1 Introduction

1.1 Commission

- 1.1.1 Peter Brett Associates has been instructed by Chelmsford City Council to prepare a viability assessment to assist the Council in the preparation of the Strategic Land Availability Assessment (SLAA) 2015.
- 1.1.2 The proposed methodology for undertaking the SLAA for Chelmsford City Council was published in February 2015 for consultation. This clearly identifies the need to identify the extent of land considered deliverable (i.e. available now, in a suitable location and achievable i.e. viable over the forthcoming five year period), thus forming the five year housing land supply, and to identify that land which is potentially developable over a longer period (i.e. 6-15 years) on the basis that it is likely to be suitable, available, and viable over a longer period. This is a specific requirement of National Planning Policy Framework (NPPF).
- 1.1.3 As part of the preparation of Chelmsford City Council's new Local Plan, the Council has sought information from landowners and developers on sites they wish to promote for future development. The 'Call for Sites' ran from 3 November to 19 December 2014 and gave parties the opportunity to submit sites to the Council for the consideration of future development.
- 1.1.4 In assessing all sites submitted through the Call for Sites the Council has confirmed they will follow the latest National Guidance. To ensure the Council's assessment is transparent, a Draft Strategic Land Availability Assessment Methodology (the methodology) has been produced. This sets out the City Council's approach to assessing sites submitted through the Call for Sites, as well as the on-going assessment of land availability throughout the Local Plan process. The report that was submitted to committee on the 5th March contained a flow chart (copy enclosed in Chapter 3 of this report) which sets out the Council's approach and is consistent with National Planning Policy Guidance (NPPG).
- 1.1.5 This study will form part of the Stage 2 'Site/Broad location assessment'. The Council has confirmed that the purpose of this work is to focus on the viability of sites, and does not consider the suitability and availability of sites. The assessment of all sites 'suitability' and 'availability' is being carried out separately and the findings of this study will feed into this piece work.

1.2 Document status

- 1.2.1 The assessment of sites within this document is based upon information available at the time of writing (Summer 2015) and reflects the current assessment of sites based on the development plans and also current market conditions.
- 1.2.2 Identification of sites as potentially deliverable within this study does not provide any status to a site and should not be considered to be the Council's view with regard to a particular site. Government guidance is very clear "The assessment is an important evidence source to inform plan making but does not in itself determine whether a site should be allocated for development".1
- 1.2.3 This document must be considered as part of the wider evidence base for the Development Plan but cannot be construed as committing the Council to allocate any particular parcel of land for a particular use, nor approve any application for its development. The document will however be used by the Council in its review of its Development Plan and will provide evidence in the preparation of the forthcoming Chelmsford Plan.

¹ NPPG (2014) Does the assessment allocate land in development plans?(paragraph 3)



1.3 Structure of Report

1.3.1 This report is set out as follows:

Section 2 Local and national policy context

1.3.2 This section of the report summarises the policy documents relevant to the future development of sites in the study area.

Section 3 Viability Methodology

1.3.3 This section describes the methodology that we have employed for the study, which is in accordance with the Council's Draft Strategic Land Availability Assessment Methodology.

Section 4 Market Assessment

1.3.4 This section of the report provides an assessment of the residential and commercial markets in 2015. This analysis was used to inform the revenue assumption in our appraisal, and the threshold land value. In our assessment we relied on recognised published data from Land Registry, Department for Communities and Local Government (DCLG), Focus, Lambert Smith Hampton, CBRE and JLL commercial research reports and the Harman Report². We also supplemented this information with consultation with local agents.

Section 5 Review of Identified Sites

1.3.5 This section provides our analysis of the SLAA sites. The analysis is to formulate a number of typologies (i.e. sample sites) representative of the range of sites put forward by developers, landowners and other promoters that we could use in our testing.

Section 6 Viability Assumptions

1.3.6 In this section of the report we set out our assessment of the cost and value inputs which are used to test the viability of potential development sites. As mentioned above the assumptions on values are taken from Section 4 of this report. Costs are based on recognised published data and industry standard assumptions. This method is widely recognised by the industry and is therefore deemed suitable for the purposes of this study.

Section 7 Results of Viability Testing

1.3.7 In this section we provide the results of the viability testing. A copy of the appraisals are contained in Appendix C of this report.

Section 8 Conclusions

1.3.8 This section of the report provides a conclusion of our analysis.

1.4 Limitations of Report

1.4.1 This report and the accompanying appraisals are documents in relation to the Strategic Land Availability Assessment (SLAA). As per Valuation Standards 1 of the RICS Valuation Standards - Global and UK Edition 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.

² Local Housing Delivery Group (June 2012) Viability Testing Local Plans – Advice for planning practitioners



2 Local and national policy context

2.1 Introduction

2.1.1 This piece of work forms part of the deliverability appraisal of the SLAA assessment. As such it is subject to the Local and National policy context. In this Chapter we have outlined a summary of the applicable policy context.

2.2 SLAA

- 2.2.1 The SLAA is an evidence base document, required by Government, which will identify land and buildings that may be suitable for development after 2021. The document is a key part of preparing a new Local Plan for the City Council's area until 2036.
- 2.2.2 Its purpose is to:
 - Identify sites in the City with potential for housing or economic development;
 - Work out how many houses or units could be built on them; and
 - Work out when they could be provided.
- 2.2.3 The assessment does not allocate sites for development or grant planning permission.
- 2.2.4 The SLAA process commenced with the Council seeking information from landowners and developers on sites they wish to promote for future development in order to explore possible areas of land for future development within the Chelmsford administrative area. The 'Call for Sites' ran from 3 November to 19 December 2014 and gave parties the opportunity to submit sites to the Council for consideration for future development.
- 2.2.5 In assessing all sites submitted through the Call for Sites the City Council have confirmed they will follow the latest National Guidance on undertaking a SLAA as set out by the NPPF³, NPPG⁴, the Harman Report⁵ and RICS Guidance.⁶

2.3 The NPPF

2.3.1 The NPPF requires an assessment of Housing Land Availability to be undertaken. Specifically this assessment is required to identify the extent of land considered deliverable (i.e. available now, in a suitable location and achievable - i.e. viable - over the forthcoming five year period), thus forming the five year housing land supply, and to identify that land which is potentially developable over a longer period (i.e. 6- 15 years) on the basis that it is likely to be suitable, available, and viable over a longer period.

Local Plan

2.3.2 Paragraph 158 of the NPPF requires that local planning authorities should ensure that their Local Plan is based on adequate, up-to-date and relevant evidence about the economic, social and environmental characteristics and prospects of the area. Local planning authorities

³ National Planning Policy Framework (Dept. for Communities & Local Government) March 2012

⁴ National Planning Policy Guidance 'Housing and Economic Land Availability Assessment' (Dept. for Communities & Local Government)

Viability Testing Local Plans: Advice for Planning Practitioners (Local Housing Delivery Group Chaired by Sir John Harman) June 2012

⁶ RICS (2012) Financial Viability in Planning Guidance Note



should ensure that their assessment of and strategies for housing, employment and other uses are integrated, and that they take full account of relevant market and economic signals.

Housing

- 2.3.3 In respect of housing, paragraph 159 of the NPPF states that authorities should have a clear understanding of housing needs in their area. As part of this, local authorities should prepare a SLAA to establish realistic assumptions about the availability, suitability and the likely economic viability of land to meet the identified need for housing over the plan period.
- 2.3.4 Paragraph 47 states that local planning authorities should seek to boost significantly the supply of housing through a number of avenues. Of relevance to this document, local authorities should:
 - Use their evidence base to ensure that their Local Plan meets the full, objectively assessed needs for market and affordable housing in the housing market area as far as is consistent with the policies set out in the Framework (including identifying key sites which are critical to the delivery of the housing strategy over the plan period; and
 - Identify and update annually a supply of specific deliverables and sites sufficient to provide five years worth of housing against their housing requirements (with an additional buffer of 5% - moved forward from later in the plan period) to ensure choice and competition in the market for land.
- 2.3.5 The NPPF also states that where there has been a record of persistent under-delivery of housing, local planning authorities should increase the buffer to 20% (moved forward from later in the plan period) to provide a realistic prospect of achieving the planned supply and to ensure choice and competition in the market for land; identify a supply of specific, developable sites or broad locations for growth, for years 6-10 and, where possible, for years 11-15.

Employment

2.3.6 In respect of employment, paragraph 161 of the NPPF sets out the need to assess the existing and future supply of land available for economic development and its sufficiency and suitability to meet the identified needs. Reviews of land available for economic development should be undertaken at the same time as, or combined with, SLAA and should include a reappraisal of the suitability of previously allocated land.

Viability

2.3.7 A definition of viability in planning terms is provided in Paragraph 173 of the NPPF, which states:

"To ensure viability, the costs of any requirements likely to be applied to development, such as the 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"

2.4 The NPPG

- 2.4.1 The NPPG provides further guidance in relation to the undertaken of SLAA and in considering the issue of viability in planning.
- 2.4.2 Specifically, the Guidance indicates that the key principles for understanding viability issues are as follows:



- That the obtaining of an appropriate Evidence Base will require understanding of realistic costs and values and the operation of the local development market. It suggests that ensuring understanding of issues such as past delivery rates, and direct engagement with the local development sector may be useful in obtaining evidence;
- A collaborative approach is advocated to assist the understanding of deliverability and viability. Transparency of evidence is encouraged wherever possible; and
- That the Evidence Base for housing, employment and retail policy is underpinned by a comprehensive and consistent approach to viability across the area.

2.5 Viability Testing Local Plans: Advice for Planning Practitioners (June 2012) – The Harman Report

- 2.5.1 The Harman report provides advice on the role of viability appraisals in the planning process, specifically in relation to the assessment of Local Plan policies.
- 2.5.2 It defines viability as follows:

"An individual development can be said to be viable if, after taking account of all costs, including central and local government policy and regulatory costs and the costs and availability of development finance, the scheme provides a competitive return to the developer to ensure that the development takes place and generates a land value sufficient to persuade the land owner to sell the land for the development proposed. If these conditions are not met, a scheme will not be delivered."

2.5.3 We can confirm that our viability methodology will adhere to the national guidance detailed above.



3 Viability Methodology

3.1 Introduction

- 3.1.1 In this section we provide an overview of the Study methodology which reflects the requirements of the NPPF and the NPPG, and takes account of the best practice and expertise we have amassed through undertaking viability work and numerous Strategic Housing Land Availability Assessments and SLAA studies across the country. Later sections provide greater detail in terms of the assessment of value areas, site typologies and the application of this to the choice of sites to be subject to viability testing.
- 3.1.2 At the outset it should be noted that this Study does not represent a full SLAA update it is a housing and commercial viability study, the purpose of which is to provide recommendations on the viability housing and commercial sites identified through the 'call for sites' in the City. This work will then provide the evidence to inform the allocation of appropriate sites in the Council's emerging SLAA.
- 3.1.3 In order to ensure the Council's assessment is transparent, a Draft Strategic Land Availability Assessment Methodology (the methodology) has been produced. This sets out the City Council's approach to assessing sites submitted through the Call for Sites, as well as the ongoing assessment of land availability throughout the Local Plan process. The report submitted to committee on the 5th March contained the flowchart process detailed at Figure 3.1:

Stage 1- Site / broad location identification

Determine assessment area and site size

Desktop review of existing information

Site / broad locations

Site / broad location

Stage 3 - Windfall assessment

Determine housing / economic development potential of windfall sites (where justified)

Stage 4 - Assessment review

Assessment of development uses

Stage 5 - Final evidence base

Perview assessment and prepare draft trajectory Enough sites / broad locations?

Perview assessment and prepare draft trajectory Enough sites / broad locations?

Perview assessment and prepare draft trajectory Enough sites / broad locations?

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Perview assessment and prepare draft trajectory Enough sites / broad locations?

Perview assessment and prepare draft trajectory Enough sites / broad locations / broad locatio

Figure 3.1 Draft Strategic Land Availability Assessment Methodology Flow Chart

Source: Chelmsford City Council



- 3.1.4 This report forms part of Stage 2 (Broad Location assessment) and considers in the following in the context of viability:
 - Estimating Development Potential
 - Achievability
 - Overcoming Constraints
 - Rate and Timescale of Development
- 3.1.5 In accordance with Chelmsford City Council's published SLAA methodology the viability of each site will be assessed against site typologies, developing on the strategic approach used to calculate the Community Infrastructure Levy (CIL). This approach has been tested as part of the CIL Examination and is therefore considered to be appropriate for use in this assessment. It is also considered to be consistent with the requirements of the NPPG.
- 3.1.6 As set out in the NPPG a site is considered achievable for development where there is a reasonable prospect that the particular type of development will be developed on the site at a particular point in time. This is essentially a judgement about the economic viability of a site, and the capacity of a developer to complete and let or sell the development over a certain period.
- 3.1.7 The City Council used a residual land valuation model to determine the viability of residential development in a strategic manner across the City when calculating CIL, and we also propose to use a RLV model in keeping with the CIL methodology. This methodology is also consistent with industry practice when assessing development site viability.

3.2 First Phase: High Level Achievability Assessments

- 3.2.1 The first phase of our analysis involves a high-level achievability assessment of all SLAA sites. This stage of work involves the research into and consideration of:
 - Market issues at both the macro and micro levels across all land uses; and
 - Other factors which are likely to influence / affect achievability, including known information relating to land values, geo-environmental factors, physical constraints and so on.
- 3.2.2 We have interpreted the evidence collected as part of this stage using our professional knowledge, forecasts of future market changes informed by past trends and general market forecasts from leading agents.
- 3.2.3 Completion of the First Phase of work has enabled us to develop a series of typologies (i.e. sample sites) which are representative of the range of identified sites. We talk about these typologies in Chapter 5.

3.3 Second Phase: Achievability Assessments – Viability Testing

- 3.3.1 The second phase of the assessment is to undertake viability testing for a representative sample of sites across the study area, which we have agreed with the Council as part of the First Phase. Viability testing is carried out through undertaking development viability appraisals. The purpose of the viability appraisals is two-fold:
 - 1. The appraisals demonstrate that our assumptions in the First Phase of the achievability assessments were robust; and

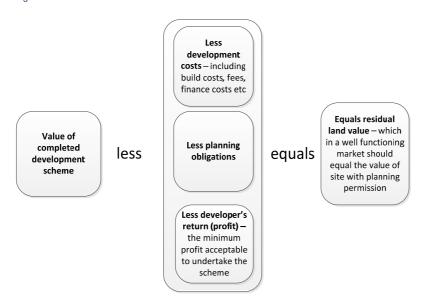


2. The appraisals provide the Council with a set of representative templates which can then be used as the basis for detailed assessment of any site as and when it is required.

3.4 Viability testing

- 3.4.1 Our viability assessments are based on development appraisals of sample schemes within the administrative area using the residual valuation method. The resulting residual land value is assessed against a threshold land value (sometimes called benchmark land value) to determine whether the sample schemes area viable. This approach is in line with accepted practice as recommended by RICS guidance and the Harman report.
- 3.4.2 The residual appraisals are applied to different sites, aiming to show typical values for each. They are based on the following formula in Figure 3.2:

Figure 3.2 Residual Value Calculation



- 3.4.3 For each of the development categories tested, we use this formula to estimate typical residual land values, which is what the site should be worth once it has full planning permission. The residual value calculation requires a wide range of inputs, or assumptions, including the costs of development and the required developer's return.
- 3.4.4 The arithmetic of residual appraisal is straightforward. However, the inputs to the calculation are hard to determine for a specific site (as demonstrated by the complexity of many S106 negotiations). Therefore our viability assessments are necessarily broad approximations, subject to a margin of uncertainty.

PBA Viability toolkit

- 3.4.5 We have used PBA's viability toolkit for the viability modelling exercise. All sites identified are assessed and the results reported to the SLAA Assessment Panel for input into the overall assessment.
- 3.4.6 The PBA development appraisal model is a Microsoft Excel model designed to be transparent, with all inputs visible and verifiable. Inputs into the model include:
 - Developable area (site area less land for open space or major site infrastructure);
 - Density of development (dwellings per ha);



- Type of residential properties;
- Tenure of residential properties (private / social rented / affordable rented /shared ownership);
- Residential sales values and sales rates (benchmarked against published data from recognised sources (mouseprice.com and rightmove.co.uk);
- Type of commercial properties:
- Rents and yields of commercial property;
- Construction costs (benchmarked against the latest quarter of Build Cost Information Services (BCIS) data re-based for Chelmsford);
- Overheads (including professional fees for architects, planning etc. & insurances);
- Land cost (the threshold land value);
- 'Residual' S.106 costs;
- Finance costs; and
- Abnormal costs.

Abnormal Costs

3.4.7 It is outside the scope of a strategic study of this nature to assess physical constraints of sites in detail. Thus, we have focused on obvious constraints, based on available knowledge and observations. For instance, for a large, undeveloped field cut off from existing housing, we would assume that significant new drainage etc will be required; conversely we would assume that a small site in a primarily residential area is capable of linking into existing road infrastructure and service provision.

3.5 Threshold Land Values

- 3.5.1 As mentioned above the residual land values are assessed against a threshold land value to assess whether the scenario is viable. In determining a suitable threshold land value we have regard to:
 - Greenfield and brownfield land values
 - HCA Guidance, The Harman Report and DCLG Guidance.
 - Land values agreed for the site specific S.106 viability work which PBA has undertaken on behalf of the Council.
- 3.5.2 In our assessment of threshold land value we have followed the definition set out in the Harman Report. The Harman Report states:

"Threshold Land Value should represent the value at which a typical willing landowner is likely to release land for development, before payment of taxes (such as capital gains tax)."

⁷ Local Housing Delivery Group (June 2012) *Viability Testing Local Plans – Advice for planning practitioners* (P28)



3.5.3 And recommends that:

"Threshold Land Value is based on a premium over current use values and credible alternative use values (noting the exceptions below).

Alternative use values are most likely to be relevant in cases where the Local Plan is reliant on sites coming forward in areas (such as town and city centres) where there is competition for land among a range of alternative uses. This approach is already used by many councils, allows realistic scope to provide for policy requirements and is capable of adjusting to local circumstances by altering the percentage of premium used in the model.

The precise figure that should be used as an appropriate premium above current use value should be determined locally. But it is important that there is evidence that it represents a sufficient premium to persuade landowners to sell."

- 3.5.4 To formulate suitable threshold land values we have examined a range of comparables, looking at residential development site values whilst taking into consideration existing commercial uses. This is to ensure that the threshold land value used in the Viability Study for individual sites is as robust as possible. Given the complexities of development across a whole plan area, and limited nature of publicly available transactional data, we propose to base this assessment on appropriate available evidence.
- 3.5.5 From our recent work we would highlight several key issues in assessing the threshold land value, as follows.
 - It is important to stress that there is no single threshold land value at which land will come forward for development. Much depends on the land owner and their need to sell or wait in the hope that land values might improve and on the condition and location of the site.
 - All sites vary in terms of the degree to which they are serviced or free of abnormal development conditions. Such associated costs vary considerably from site to site and it is difficult to adopt a generic figure with any degree of accuracy. Our starting point is to assume that the value of sites (when calculating the threshold level) relates to a full serviced development plot. In real terms, abnormal development costs or site servicing costs will be met by developers when the land is purchased. Careful analysis of transactions is required to assess the split between abnormal development and servicing costs (as a discount from the market value) from the premium sought by the land owner above the existing use value.
 - The land transaction market is not transparent. Very little data is in the public domain and the subjective influences behind the deal are usually not available. We therefore place a strong emphasis on consultation with both landowners and developers to get an accurate picture as possible as to what the threshold value might be.

3.6 Determining Developability & Deliverability

- 3.6.1 The 'deliverability' and 'developability' of sites has been assessed on a systematic and transparent basis. The test of a site's viability will depend on the scheme's ability to generate a reasonable return for the developer, landowner after meeting policy requirements. A conclusion will be reached for each site about viability, and hence the likelihood of the site being delivered through the operation of the market.
- 3.6.2 As a broad approximation we have adopted the following criteria:

Viable – The residual land value is 20% or greater above the threshold land

⁸ Local Housing Delivery Group (June 2012) *Viability Testing Local Plans – Advice for planning practitioners* (P29)



Marginal - The residual land value is not less than 20% below the threshold land value and no greater than 20% above the threshold land

Unviable – The residual land value is 20% or greater below the threshold land value

3.6.3 We would note that deliverability is not just a question of viability. What is acceptable to one landowner could be unacceptable to another. A sense of built-up expectation of land value is a complicating factor in the housing and commercial markets, and landowners with a certain expectation may choose not to sell a site if that expectation is not reached. The psychology of landowner behaviour is a real issue that the Council will need to consider so that deliverability rates for housing and employment are not adversely affected.



4 Market Assessment

4.1 Introduction

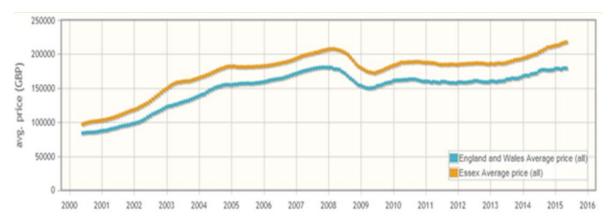
4.1.1 To assist in our analysis of the identified SLAA sites we also carried out a market assessment of housing, employment, and gypsy and traveler uses. This involved the consideration of market issues at both the macro and micro levels. The outputs of this analysis has informed the scenarios to test and capital values to use in the viability assessment.

4.2 Residential

National and county context

4.2.1 Following the economic crises in 2007 and the subsequent recession in 2008 the UK residential market experienced a period of prolonged stagnation. As a result of the recession house prices fell nationally by around 15% (Figure 4.1) from a peak of £180,000. At an Essex County level average house prices have been consistency higher than the UK average. House prices peaked in Essex at a similar time to the UK average with an average price of £208,000, but fell by a larger percentage (17.3%) to £172,000. Since 2009 average house prices in Essex have performed well, with prices rising faster than the UK average. The average price in Essex is above the 2007 peak at £219,500.

Figure 4.1 England & Wales & Essex Average house prices (all properties)



Source: Land Registry

4.2.2 Within Essex, the county wide analysis masks the variation in house prices at a district level. Figure 4.2 shows that in Chelmsford average house prices are higher than the county average at £324,000, with prices increasing further on the western side of the district. At the other end of the spectrum lower values are found on the eastern side of the district. This is due to their relative remoteness from the major commercial centres, whilst conversely the higher values areas are driven by their proximity to London.



Figure 4.2 Heatmap – Average Property Values



Source: zoopla.co.uk, last accessed 30 June 2015

New Build House Prices

4.2.3 Detailed analysis has been undertaken of the new build house prices in the Chelmsford area and is set out in **Error! Reference source not found.**. The developments analysed range in size from small scale housing schemes to larger housing developments. They are distributed across the administrative area although there is a high concentration of development activity in and adjacent to Chelmsford. The table summarises the average asking prices on a £ per sq m bases across each of the developments (our calculations are based on the floor areas provided by the developers including an allowance for hallways, bathrooms and store cupboards, where these have been omitted from the measurements).

Table 4.1 New Build House Price Analysis

Name of Development	Average Purchase Price	Average Price per sqm	Allowance for 10% discount on asking price	Allowance for 10% discount on Average Asking Price per sqm	Average Size (sqm)
Agua Verde - Bellway Homes	£404,995	£4,878	£364,496	C4 300	87
Woodlands - William Thompson Homes &	· · · · · · · · · · · · · · · · · · ·	14,070	1304,490	£4,390	87
Biminster Homes	£1,209,167	£4,898	£1,088,250	£4,408	249
Church Court - Tern Developments	£248,328	£3,956	£223,496	£3,561	63
Willowdene - Developer Unknown	£1,650,000	£3,986	£1,485,000	£3,587	414
The Waterfront - Taylor Wimpey	£214,545	£4,041	£193,091	£3,637	54
Marconi Evolution - Bellway Homes	£449,995	£3,913	£404,996	£3,522	115
Coval Lane - Marden Homes Ltd	£484,375	£3,703	£435,938	£3,333	131
Chignall Road - Marden Homes Ltd	£838,000	£4,067	£754,200	£3,660	206
St. John's - Inland Homes Ltd	£343,700	£4,568	£309,330	£4,111	76

Source: Zoopla/Rightmove/PBA



4.2.4 The data in Table 4.1 shows that average asking prices across the district ranges from £3,703 to £4,898 per sq m. If we apply a discount of 10% to reflect the typical reduction achieved in negotiating the actual price paid, then the revised rate is between £3,333 and £4,408 per sq m.

Conclusion on residential sale values

- 4.2.5 As agreed with the Council we have compared our analysis against earlier house price data prepared by BNP Paribas as part of the CIL Viability Report undertaken in February 2013. The purpose of this analysis is to form a view on a current single average house price £ per sq m that can be used in the SLAA viability testing.
- 4.2.6 BNP Paribas reported an average sales value of £269,056, equating to £2,990 per sq m assuming an average house size of 90 sq m. Land Registry data shows that since February 2013 average prices in Essex have increased by 17.50%. If we apply this to BNP Paribas figures, this provides a revised blended (apartments and houses) average rate of £3,513 per sq m. This falls within the range (just below the mid-point) of rates which we estimate will be achieved on new build schemes in the area. We have therefore of the opinion that £3,515 per sq m is a reasonable figure to use in the SLAA viability testing.

4.3 Office

National Outlook

- 4.3.1 There are ongoing changes to the nature of office occupier demand for example centralisation, fewer office locations, less floorspace and the implementation of modern workplace strategies (for example hot desking). As the UK economy has been growing this has now filtered through to the regional office market.
- 4.3.2 CBRE report that the UK regional office markets have continued to build upon growth that firmly took hold in 2014....Occupier demand has grown, and has resulted in take-up tracking above long run averages. CBRE state that many of the core regional cities, pre-letting has returned in strength, with professional service firms in particular taking advantage of the new generation of office buildings that are about to emerge in cities such as Manchester, Leeds and Birmingham.
- 4.3.3 Lambert Smith Hampton (LSH) report that the in the regional markets, speculative development doubled in 2014 to reach 390,000 sq m. Manchester, Edinburgh, Leeds and Reading are the key focus of activity.¹⁰

South East office market

- 4.3.4 The major office markets outside of Greater London are towards its west with towns such as Maidenhead and Reading having strong established markets able to attract blue chip occupiers. The office market towards the east is more marginal and has historically seen less development activity then towards the west.
- 4.3.5 The west / east divide is also reflective in prime rents achieved. Prime rents to the west are around £323 per sq m compared to £215 per sq m in the east.
- 4.3.6 CBRE report that the South East office markets have not seen the same acceleration as has been the case in the regional cities. It is not that the market is inactive, but more the case that larger floorplate deals are becoming scarcer.

 9 CBRE state that the effect of UK economic

⁹ CBRE (H1 2015) National office market review

¹⁰ LSH (2015) Activating the workplace office market



growth over the past two years is continuing to drive smaller requirements (under 1,850 sq m). Activity in this sector is very strong. Grade A stock levels are now noticeably low in some markets, resulting in rental growth.

4.3.7 With regard to yields, LSH report (Figure 4.3) that prime office yields are 5.25% in the South East with the average transaction at 6.85%. The average yield transaction in the South East is slightly below the UK average of 6.95%.

Figure 4.3 Office Yields

	Prime (Q4 14)	IPD (Q4 14)	2014 transaction average
West End	3.75%	3.39%	4.43%
City	4.25%	4.13%	4.94%
South East	5.25%	5.29%	6.85%
Rest of UK	5.25%	6.23%	6.95%

Source: LSH

Chelmsford office market

- 4.3.8 Chelmsford provides one of the prime office locations in Essex. LSH report that 2014 was Chelmsford's strongest year of take-up since 2008. With a marked improvement in demand in the latter half of 2014, 2015 is expected to outperform last year.¹⁰
- 4.3.9 The area around Chelmsford train station has seen the most new build development. Genesis competed 2,200 sq m of Grade A office space at City Park West. With Phase 2 recently obtaining consent for 3,800 sq m. LSH report that Bellway is seeking pre-lets for a proposed 6,000 sq m development on the former Marconi site, with quoting rents of £280 per sq m. The quoting rent of £280 per sq m at Marconi is the prime headline rent for Chelmsford. Prime office yields are 6.5%.
- 4.3.10 Secondary office rents vary across Chelmsford. Focus data indicates that refurbished office space typically achieves around £80 to £135 per sq m around the city centre. The space typically is finished to a specification of suspended ceilings with category 2 lighting and airconditioning. Letting void periods are very noticeable of between 6 to 18 months which highlights the relatively slow letting market of secondary property in Chelmsford.
- 4.3.11 Bidwells report¹¹ that second half 2014 office take-up for Chelmsford was 1,468 sq m with demand during the same period at around 10 times the figure at 10,870 sq m. Bidwells state that during this period office availability in Chelmsford was around 11%.

Conclusion on office values

4.3.12 Taking the above into account we are of the opinion that a rental value of £250 per sq m and a yield of 7.5% are appropriate assumptions for new build Chelmsford office space as part of the SLAA testing.

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¹¹ Bidwells (Spring 2015) Business Space Data Book



4.4 Industrial B2 / DistributionB8

National and South East Outlook

- 4.4.1 Prior the late 2000s economic crises there had been significant quantum of speculative development of Industrial B2 / Distribution B8 across the country. Speculative development came to a standstill in the late 2000s due to the lack of development finance, this combined with occupier demand weakening and the introduction of empty property rates on industrial buildings placed downward pressure on rents and yields increased.
- 4.4.2 Since the economy has improved combined with a greater reliance on on-line sales (on-line retail sales, as a percentage of market share, doubled from 5.6% to 12% from 2006 to 2013¹²) demand for distribution units has significantly increased. In prime areas of the UK agents are reporting that there is very limited vacancy as surplus supply has been absorbed and new opportunities have until recently been delivered through build to suit solutions. LSH report¹³ that in 2014, take-up reached record levels, investment activity saw an all-time high and speculative development returned in a meaningful way. However, the strong recovery in demand has put existing supply under acute pressure. These pronounced shortages are influencing the nature of occupier activity and Grade A take-up nationally was actually the lowest on record.
- 4.4.3 JLL report¹⁴ that the first half of 2015 saw 790,000 sq m of take-up of Grade A big box distribution (i.e. over 9,300 sq m). Nearly half of this take-up was from retailers and nearly one third logistic companies. JLL also report¹⁵ that during 2014 take-up in units from 930 to 9,300 sq m was slightly down (2%) of the year before with the annual supply diminishing by 16%.

Essex industrial market

4.4.4 At an Essex county level the industrial market prime areas are around the Thurrock, M25 and M11 corridors. Key transactions have been the investment sales (Table 4.2) of Sainsbury's 78,000 sq m distribution Centre at Waltham Abbey at a yield of 4.7% and Unilever Purfleet 17,600 sq m distribution unit at 6.8% yield. Notable lettings (Table 4.3) were the Slex Galileo deal at Sigma House, Basildon where they took 15,000 sq m at £124 per sq m, and Rowan International at Endeavour House, Basildon where they took a new 15 year lease at £68 per sq m.

Table 4.2 Investment sales: Essex June 2014 to June 2015

Address	Date	Size Sq m	Sale Price (£)	Yield	Notes
Sainsbury's Distribution Centre, Waltham Abbey	01/09/2014	78,199	110m	4.7%	Purchased by Legal & General Property
Unilever, Purfleet	05/08/2014	17,651	18.15m	6.8%	Purchased by UK Property Fund
Units 630-660 Skyline 120 Business Park, Braintree	01/01/2015	6,826	£17.9m	6.18%	Aviva Investors Global Services Ltd has purchased the freehold interest
2 Wyncolls Road, Colchester	05/06/2014	5,738	£3.17m	8.63%	Columbus Capital Management LLP has purchased the freehold interest

Source: Focus

¹³ LSH (09/03/2015) Industrial sector sheds its inhibitions

¹² Experian retail

¹⁴ JLL (Jan-June 2015) UK Industrial & Logistics Big Box Key Indicators

¹⁵ JLL (March 2015) UK Industrial Property Trends today



Table 4.3 Lettings: Essex June 2014 to June 2015

Address	Date	Size sq m	Rent £ psm	Comment
Sigma House, Basildon	15/01/2015	15,049	£124	Tenant: Selex Galileo Ltd. The passing rent of £1,860,000 per annum is subject to 5 year upward only rent reviews to open market rental value, with the 1 January 2010 review remaining outstanding.
1-2 Moss Road, Witham	31/12/2014	7,129	n/a	Simarco International Limited has taken a five year lease for an undisclosed rent. No break options or rent reviews were agreed. No rent free periods were agreed.
Endeavour House, Endeavour Drive, Basildon	04/11/2014	7,030	£68	Rowan International Limited has taken a 15-year lease subject to five yearly open market rent reviews underpinned by minimum fixed uplifts.
International Timber, Haven Road, Colchester	09/09/2014	5,090	n/a	First Essex Buses Limited has purchased the long- leasehold interest

Source: Focus

4.4.5 Bidwells report¹¹ that prime industrial rents in Thurrock (i.e. prime for Essex as well) are £94 per sq m, good secondary are £75 per sq m and poor secondary £54 per sq m.

Chelmsford Industrial Market

- 4.4.6 There is a solid market for both B2 and B8 stock in the wider Chelmsford City area, although it is not a recognised industrial market location compared to Norwich, Milton Keynes or Cambridge. There are currently a number of design and build opportunities available across the Chelmsford and wider Essex area. Prospective tenants are typically seeking accommodation close to the urban centres (such as Chelmsford) and in particular locations with good road access to London and the UK's road distribution network.
- 4.4.7 Estates Gazette Interactive (EGi) property data shows that rental levels for modern industrial accommodation vary across the Chelmsford area. Typical rents for B2 accommodation are around £71 per sq m for good quality second hand modern accommodation (space at the Chelmsford Industrial Estate on Tattersall Way was recently let at £71 per sq m), and new build development achieving a slight premium of up to £73 per sq m. As shown in Table 4.4 there is a lack of recorded transactions on EGi for B8 space in Chelmsford. All the space transacted is second-hand stock, with a large proportion being relatively small units of less than 200 sq m. Evidence of rents show that mid-range size units (500 to 2,000 sq m) achieve rents in between £64 and £73 per sq m.

Table 4.4 B8 Transactions in Chelmsford

Date	Address	Size sq m	per sq m	Purchaser/Lessee
15/04/2015	Unit 15, Chelmsford Industrial Estate, Tattersall Way	616	£73	
01/03/2015	Unit 5, Banters Lane Business Park, Banters Lane	433	£47	
09/01/2015	Unit 11, Chelmsford Industrial Estate, Tattersall Way,	1,109	£71	Currock Engineering
01/12/2014	Ground Floor, Highland Farm, Southend Road, Rettendon Common	622	£2.50	



Date	Address	Size sq m	per sq m	Purchaser/Lessee
01/12/2014	Unit 13, Chelmsford Industrial Estate, Tattersall Way	7,717	£7	
10/11/2014	Unit 4, Drakes Lane Industrial Estate - Greenacres, Drakes Lane, Boreham	93	£88	
04/11/2014	Unit 12, Chelmsford Industrial Estate, Tattersall Way	822	£67	Illuminati Lighting UK Limited
01/08/2014	57A Haltwhistle Road, South Woodham Ferrers	168	£65	
01/06/2014	Unit 18, East Hanningfield Industrial Estate, 34 Old Church Road	167	£66	
01/06/2014	Unit 33, Widford Industrial Estate, Hanbury Road	782	£64	
01/05/2014	Unit 1, Dukes Park Industrial Estate, 1 Atholl Road	1,491	£58	
01/04/2014	Unit 11, Widford Industrial Estate, Robjohns Road	169	£71	DrainFix Pipeline Solutions Limited

Source: EGi

- 4.4.8 Analysis of EGi data and consultation with agents indicates that that yields for industrial units in Chelmsford are currently around 7% for B2 accommodation and 6% for slightly more desirable B8 accommodation.
- 4.4.9 With regards managed workspace in Chelmsford there is little evidence of transacted and available space. The main managed workspace centre in the region is Essex Technology & Innovation Centre in Ongar. The centre has 30 units which range in size from 14 and 56 sq m with all-inclusive rents of between £150 and £484 per sq m. On-site management, utilities rates and voids will mean the true net rent is likely to be around a one third of that guoted.

Conclusion on Industrial Values

- 4.4.10 Based on the above analysis we have applied the following values in the SLAA viability analysis:
 - B2 industrial rent of £72 per sq m and yield of 7%
 - B8 distribution rent of £70 per sq m and yield of 6.5%
 - Managed workspace rent of £40 and yield of 9.5%

4.5 Convenience Retail

- 4.5.1 The convenience retail sector has seen a significant change since the financial crises of 2007/08. In the years following 2008 the supermarkets appeared to have weathered the economic storm with most operators aggressively expanding (commonly referred to as the race for space). Operators were able to competitively bid for sites as they were able to take advantage of other sectors in the property market being much weaker. During this period of growth there was a strong appetite from operators to open large format stores of up to circa 11,150 sq m. With this format of store providing a mixture of convenience and comparison retail.
- 4.5.2 In recent years shopping patterns have changed significantly: there is more reliance for online shopping combined along with customers supplementing a 'big' shopping trip with regular



smaller shops during the week. Also some customers are splitting their shopping trips between the big four supermarkets (as defined in Figure 4.4) and discounters such as Aldi and Lidl. As shown discount supermarkets and Waitrose have gained market share over the last three years and this has been at the expense of the big four.

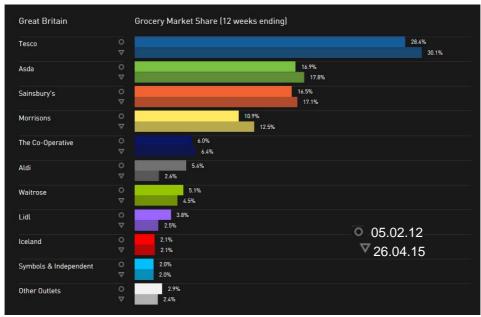


Figure 4.4: Supermarkets % by share, February 2012 to 2015

Source: kantarworldpanel.com

- 4.5.3 The change in shopping patterns in tandem with previous aggressive expansion from the big four has led to them issuing profit warnings. This itself has been compounded by Tesco overstating their profit by £250 million due to the accelerated recognition of commercial income and delayed accrual of costs. A recent Tesco trading statement¹⁶ stated, amongst other things, that they are closing 43 unprofitable stores, consolidating the Head Office location to Welwyn Garden City and disposing of Tesco Broadband and Blinkbox to TalkTalk.
- 4.5.4 Tesco's situation is not unique to the sector with Sainsbury's and Morrison's also reporting problems.
- 4.5.5 Sainsbury's announced in November 2014 that is was scaling back new store openings after the company reported a half year loss before tax of £290 million. In a recent trading statement¹⁷ Sainsbury's announced that their total retail sales for third quarter 2014 were down 2.5 per cent (including fuel) and like-for-like retail sales for third quarter down 3.9% (including fuel). Sainsbury's outlook for the remainder of the financial year is that it is set to remain challenging, with food price deflation likely to continue.
- 4.5.6 Morrison's Chief Executive Dalton Philips recently announced that he was stepping down from his role after they announced in their January 2015 trading statement that total sales (excluding VAT and fuel) were down 1.3% over the six weeks to 4 January.
- 4.5.7 Moving away from the big four operators the discount operators are performing well. Aldi reported in September 2014 that their pre-tax profits had grown by 65.2%, with group turnover up by 35.7%. Lidl has also been reporting strong retail growth. In August 2014 Lidl's managing

¹⁶ Tesco (08 January 2015) Trading statement for 19 weeks ending 3 January 2015

¹⁷ Sainsbury's (08 January 2015) 3rd quarter trading statement for 14 weeks ending 3 January 2015



- director stated that sales would grow 20% during 2014 and that they planned to double in size in the UK over the next decade as it looks to expand to between 1,200 and 1,500 stores.
- 4.5.8 Convenience retailers are now therefore looking to focus on the acquisition of smaller sites and the refurbishment/expansion of existing stores rather than delivering non-food retail and 'mega-stores' (stores over circa 9,290 sq m), but despite this research by CBRE¹⁸ indicates that the development pipeline remains robust, with construction activity increasing by over 50% in 2014, the highest level since 2009.

Convenience Retail Investment Market

- 4.5.9 Commercial agents tell us that the uncertainty in the market is started to be felt in yield shifts and investors being more selective on the tenant profile and location. In addition operators themselves are being more selective on store locations and lease terms. Agents' have commentated as follows:
 - Yields have moved out on those leases which have open market rent reviews (OMR)
 - Yields are holding firm with those leases with RPI fixed increases
 - Large institutional investors are quite exposed to Tesco's and Sainsbury's meaning other covenants are comparatively more keenly priced
 - Morrisons is an attractive covenant in the investment market as they have not historically undertaken sale and leasebacks and they have a large freehold portfolio so are seen to be on a strong footing
 - Size and location impacts yield. Larger formats are particularly unattractive as growth in the sector is now for smaller format
 - Strength of location is an important factor in attracting operators. Weaker locations will have to offer heavily incentivised terms.
 - Power lies with the tenant rather than the landlord in negotiating terms.
 - 25 year lease with 5 yearly fixed RPI sub 5% yield, but with OMR then there is a yield of at least 0.5%. Aldi and Lidl will commit to a 15 year lease with OMR. Therefore you would expect the yield to be above 6%.
- 4.5.10 As shown in Table 4.5 yields where leases have a fixed uplift at review are generally under 5%, with a range of 4.17% to 6%. Those which have open market rent reviews and a term of 10 years of more unexpired, are achieving higher yields of between 5.75% and 6.15%. The evidence also shows that Tesco yields are slightly higher than that of Asda and Sainsbury's. This could be a reflection of funds seeking to reduce their exposure to this covenant.
- 4.5.11 The yield pricing shows that a difference of around 25 basis points for a lease of 7.5 years longer unexpired with Sainsbury's as the covenant. Rental evidence is very wide ranging.

 Analysis of the capital values shows rents of between £61 and £334 psm (£5.70 and £31 psf). The average rent is around £215 psm (£20 psf).

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¹⁸ CBRE United Kingdom Shopping Centre Pipeline H1 2015



Table 4.5 Supermarket rents and yields – fixed reviews

Property	GIA Sq m	Tenant	WAULTC (years)	Date	Price	Initial Yield	Capital value £ psf	RPI Uplifts
107 Dunton Road, Southwark, London	5,790	Tesco	21.80	Jan 2015	£43.00M	4.50%	£690	RPI annual uplifts (5% cap, 0% collar)
Pentwyn Road, Cardiff	3,526	Waitrose	13.77	Jun 2014	£15.30M	4.73%	£403	Fixed 2.5% pa uplifts.
Lower Road, Belvedere	6,308	ASDA	18.18	Mar 2014	£32.40M	4.75%	£477	Fixed 3% pa uplifts.
2 Strafford Road, Wallington, Greater London	5,613	Sainsbury's	20.40	Jan 2014	£35.10M	4.24%	£581	RPI uplifts received 5 yearly (4% cap, 1% collar).
Sainsbury's Way, Kingston-upon- Hull	10,147	Sainsbury's	10.88	Aug 2013	£38.83M	5.50%	£356	Annual RPI uplifts (3.5% cap, 1.5% collar). Current rent £20.69 psf.
Nottingham Street Rotherham	10,235	Tesco	30.00	Mar 2013	£38.50M	5.10%	£349	RPI uplifts (4% cap, 1% collar). Current rent £20.50 psf
Fakenham Road Norwich	2,129	Tesco	10.80	Mar 2013	£6.50M	6.00%	£284	Annual RPI uplifts capped at 4%.

Source: PBA/Savills

4.5.12 As shown in Table 4.6 leases with open market reviews with a term of 10 years or more unexpired are showing to have rents between £178 and £312 psm (£16.50 and £29 psf). Current rents for leases with fixed uplifts are between £226 and £248 psm (£21 and £23 psf).

Table 4.6 Supermarket rents and yields – open market reviews

Property	GIA Sq m	Tenant	U/X Lease Term (years)	Current Rent (£ psf)	Sale Date	Price	Initial Yield
Westfield Road, Edinburgh	10,001	Sainsbury's	17.81	£18.53	Available	£32.85M	5.75%
Friar Street, Reading	3,366	Sainsbury's	4.07	£11.04	Available	£6.75M	5.60%
London Road North, Lowestoft	3,553	Tesco	5.41	£5.75	Available	£2.77M	7.51%
Etruria Road, Stoke- on-Trent	5,912	Sainsbury's	10.39	£16.50	Aug 2014	£16.50M	6.01%
Spring Lane, Bury	4,809	ASDA	8.92	£16.94	Dec 2013	£13.63M	5.78%
Lewes Road, Brighton	6,202	Sainsbury's	12.87	£29.07	May 2013	£29.85M	6.15%

Source: PBA/Savills



Conclusion on Convenience Retail Values

4.5.13 Taking the above into account we are of the opinion that a rental value of £200 per sq m and a yield of 5.5% are appropriate assumptions for new build convenience retail as part of the SLAA testing.

4.6 Gypsy & Traveller Accommodation

- 4.6.1 The Council's adopted Core Strategy and Development Control Policies DPD recognises the differing accommodation needs within Gypsy and Traveller communities via Policy DC34. In order to meet the identified need for Gypsy and Traveller accommodation up to 2016 the need for two ten pitch sites has been identified in the Core Strategy and Development Control Policies Development Plan Document. However, the Council recognises that beyond 2016 potential sites may need to be identified to meet an unmet need in the future.
- 4.6.2 In our experience gypsy and traveller sites are usually brought forward as part of large development proposals, where it forms only a small proportion of the overall scheme. The reason for this is that by their very nature, gypsy and traveller sites do not generate any revenue and are therefore purely a cost. As such the private sector is unlikely to develop these sites in isolation unless it is a planning policy requirement for a development scheme. Similarly they may also be included within the development itself. For instance, a ten pitch site (0.2ha) is to be provided by Countryside Zest at their Greater Beaulieu urban extension to the north of Chelmsford. In this instance a contribution of £612,000 towards the cost of building out the 10 pitches will be incurred by the developer in addition to the land contribution from the overall site.

Conclusion on Gypsy & Traveller Accommodation

4.6.3 Since these sites are a pure cost and therefore unviable to provide in isolation we have excluded them from our viability assessment. Should the Council intend to allocate sites for this use, through updating its Gypsy and Traveller Policy, then we would recommend that these are considered separately via an appropriate accommodation assessment.



5 Review of Identified Sites

- 5.1.1 It was agreed with the Council that for the purposes of this study, it was not necessary to do a detailed assessment of each site. Instead a high level assessment of the identified sites was carried out. This entailed reviewing key site characteristics and identifying common constraints, which are likely to influence/affect achievability, such as geo-environmental factors, physical constraints, and so on.
- 5.1.2 This then enabled us to develop a series of typologies (i.e. sample sites) representative of the range of sites put forward by developers, landowners and other promoters.
- 5.1.3 As a result of this work, 18 typologies were developed, which are set out in detail at Appendix A We have provided a brief summary of each of the typologies in Table 5.1.

Table 5.1 Site Typologies

Site Type	Location	Land Type (BF/GF)	Site Size (Gross)	Land Use	Form and Scale
1	Central Chelmsford	BF	0.4 ha	Residential	Flats only – 6+ storeys
2	Central Chelmsford	BF	1 ha	Residential	Flats only – 6+ storeys
3	Urban Area	BF	0.4 ha	Residential	Flats only – between 2 & 3 storeys
4	Urban Area	BF	1 ha	Residential	Flats only – between 2 & 3 storeys
5	Urban Area	GF	0.4 ha	Residential	Flats only – between 2 & 3 storeys
6	Chelmsford Outer Fringe	GF	50 ha	Residential, offices, industrial (B2), and convenience retail.	75% Residential (consisting of 20% flats, 16% 2 bed houses, 39% 3 bed houses & 25% 4+ bed houses); 5% convenience retail (465 sqm); 5% offices (2,000 sqm) & 15% B2 industrial (5,000 sqm)
7	Key Rural Villages Strategic Sites	GF	20 ha	Residential and convenience retail.	95% Residential (consisting of 20% flats, 16% 2 bed houses, 39% 3 bed houses & 25% 4+ bed houses) and 5% convenience retail (465 sqm)
8	Key Rural Villages	GF	0.4 ha	Residential	Houses only (consisting of 36% 2 beds, 39% 3 beds & 25% 4+ beds.)
9	Key Rural Villages	GF	2 ha	Residential	Houses only (consisting of 36% 2 beds, 39% 3 beds & 25% 4+ beds.)



Site Type	Location	Land Type (BF/GF)	Site Size (Gross)	Land Use	Form and Scale
10	Key Rural Villages	GF	5 ha	Residential	100% Residential (consisting of 20% flats, 16% 2 bed houses, 39% 3 bed houses & 25% 4+ bed houses)
11	Other Rural Villages	GF	0.4 ha	Residential	Houses only (consisting of 36% 2 beds, 39% 3 beds & 25% 4+ beds.)
12	Central Chelmsford	BF	0.4 ha	Residential and convenience retail.	95% Residential (consisting of 100% flats at 6+ storeys) and 5% convenience retail (465 sqm)
13	Central Chelmsford	BF	1 ha	Residential, offices and convenience retail.	60% Residential (consisting of 100% flats at 6+ storeys); 30% offices (2,000 sqm) and 10% convenience retail (930 sqm)
14	Central Chelmsford	BF	0.19 ha	Offices	100% offices (2,000 sqm)
15	District Wide	GF	0.10 ha	Managed Workspace	100% managed workspace (465 sqm)
16	District Wide	GF	1 ha	Industrial – B2	100% B2 industrial (2,000 sqm)
17	District Wide	GF	1 ha	Industrial – B8	100% B8 industrial (4,000 sqm)
18	District Wide	BF	0.04 ha	Retail - Convenience	100% convenience retail (465 sqm)

Source: PBA

5.1.4 From the information provided by the Council, no sites have been formally put forward solely for convenience retaill. However, the Authorities Core Strategy indicates that up to 100,000 sq.m of retail floorspace is needed in the Town Centre up to 2021. Although the majority of the growth is for comparison retail we have assumed that a small amount of convenience retail may also be needed.



6 Viability Assumptions

6.1 Introduction

6.1.1 Viability assessments require us to make a series of assumptions about the development in question. We have therefore used industry standard cost and value assumptions in addition to market evidence. A full list of the assumptions used in the development appraisals are contained in Appendix B

6.2 Sales Values

- 6.2.1 To establish suitable sale values for the study a high level market assessment was undertaken which updates the assessment carried as part of CIL. This is documented in Chapter 4 of this report. For residential this involved analysing a range of data from zoopla.co.uk, Land Registry and rightmove.co.uk. For the employment uses this involved reviewing published market data from Focus, EGi, JLL, CBRE, Bidwells and LSH as well as PBA's own in-house data gathered from undertaking a number of site specific S.106 viability studies in the administrative area.
- 6.2.2 Table 6.1 sets out the values used in the viability model.

Table 6.1 Sales Values by Land Use

Land Use	Value per sq.m
Residential – Flats	£3,513
Residential – Houses	£3,513
Offices	£250
Managed Workspace	£40
Industrial – B2	£72
Industrial – B8	£70
Retail – Convenience	£200

Source: Various



6.2.3 In terms of the commercial uses, the values above have been capitalised by applying an appropriate yield. These are based on our analysis of yield evidence as set out in Chapter 4 of this report. Table 6.2 summarises the yields applied for each use.

Table 6.2 Capitalisation Rates

Land Use	Yield
Offices	7.5%
Managed Workspace	9%
Industrial – B2	7%
Industrial – B8	6%
Retail – Convenience	5.5%

Source: Various

6.3 Affordable Housing Transfer Values

- 6.3.1 The affordable housing transfer values have been calculated in conjunction with the Council given their established relationship with Registered Providers operating in the administrative area.
- 6.3.2 We have analysed these figures against industry standard transfer values for both affordable rent and intermediate housing.
- 6.3.3 Table 6.3 summarises the allowances including in the viability model.

Table 6.3 Affordable Housing Transfer Values

Туре	Size (sqm)	Average Market Value		Shared Ownership @ 60% of Market Value
2 bed flat	51	£143,330	£71,665	£85,998
2 bed house	79	£277,527	£138,764	£166,516
3 bed house	102	£358,326	£179,163	£214,996
4 bed house	124	£435,612	£217,806	£261,367

Source: PBA/Chelmsford City Council

6.4 BCIS Costs - Unit build costs

- 6.4.1 Build costs have been based on industry recognised data sources such as Build Cost Information Service (BCIS) and comparable schemes PBA has been involved in.
- 6.4.2 Table 6.4 sets out the BCIS rate per use that have been applied. The BCIS data has been rebased for Essex (last updated on 27th June 2015 & 25th July 2015). We have applied the median build cost for each use. This has been used as it is the middle statistic (NOT the middle of the range), therefore unlike the mean, it is not as easily affected by rogue figures.



Table 6.4 BCIS Build Costs - All Uses

House Type	BCIS Description	BCIS Rate (psm)
Apartment	New build flats (apartments), 3-5 storeys	£1,134
Apartment	New build flats (apartments), 6+ storeys	£1,438
House	New build estate housing, generally	£964
Offices	New build, generally and air conditioned	£1,494
Managed Workspace	New build, generally	£1,394
Industrial – B2	New build factories, 500 to 2,000 sq.m.	£767
Industrial – B8	New build warehouses, over 2,000 sq.m	£472
Retail – Local Convenience	New build, up to 1,000 sq.m	£1,164

Source: BCIS online (last updated on 27th June 2015 & 25th July 2015)

6.5 Site Externals

6.5.1 External site costs relate to the on-site works in providing service connections, driveways, gardens, estate roads, sustainable urban drainage (SUDs) and swales etc. This will vary from site to site but typically range between 10% to 15% of build cost, depending on the mix, type of site and use. We have therefore assumed different allowances, depending on whether the site is a greenfield or brownfield site. These are summarised in Table 6.5.

Table 6.5: Site Externals

Land Type	Percentage of Build Cost
Brownfield	10%
Greenfield	15%

Source: PBA

6.6 Remediation/Demolition

6.6.1 It is envisaged that some of the future development supply will come from brownfield sites. We would therefore expect some remediation work and/or demolition to be needed on these sites prior to them being built out. To reflect the additional costs associated with this we have included an allowance of £200,000 per hectare, based on industry standards.

6.7 Flood Mitigation

6.7.1 The extent of flood mitigation will vary from site to site and will depend on many factors such as development size, development type, gross to net site area and site typography. To reflect the additional costs involved for flood mitigation measures we have allowed for the following increases in BCIS costs.



6.7.2 Table 6.6 sets out the allowances included in the viability model.

Table 6.6 Flood Risk Cost Allowances by Flood Zone

Flood Zone	Flood Risk Score	Cost Allowance Uplift on BCIS Costs
Zone 1: Low Probability	1	3%
Zone 2: Medium Probability	2	8%
Zone 3a: High Probability	3a	15%
Zone 3b: The Functional Floodplain	3b	20%

Source: Environment Agency/PBA

6.8 Professional fees

- 6.8.1 Professional fees reflect costs associated for items such as project management, planning, surveyors, architects, masterplanning, landscape architect, engineers, ecology, transport, building control, heritage and arboriculture.
- 6.8.2 The Harman report states that: Figures for fees relating to design, planning and other professional fees can range from 8 -10% for straightforward sites to 20% for the most complex, multi–phase¹⁹
- 6.8.3 In our viability model, we have applied professional fees at 10% of build which is in line with industry standards.

6.9 Sales and Marketing Costs

- 6.9.1 Sales and marketing costs are based on comparable schemes which we have assessed and are in line with industry standards. They have been applied as follows:
 - Marketing & sale costs on open market dwellings 3% of market housing Gross Development Value (GDV). The Harman report provides a range of sales and marketing costs, and states that 'an allowance should be made for these costs of around 3-5% of the GDV.' Therefore, the cost applied is reasonable, all be it at the lower end of the range.
 - Legal fees on open market dwellings £500 per unit. This is cost is in line with industry standards.
 - Sales and marketing costs for the employment uses have been assumed at 1% of the GDV.
 - Letting costs for the employment uses have been assumed at 10% of the rental value which is in line with industry standards.
 - Legal fees on sale have been assumed at 0.5% of the GDV, whilst for a letting an allowance of 5% of the rental income has been assumed. In both cases these allowances are in line with industry standards.
 - Stamp duty and tax HMRC prevailing rates.

¹⁹ Local Housing Delivery Group (June 2012) Viability Testing Local Plans – Advice for planning practitioners



6.10 Contingency

6.10.1 Contingency is based upon the risk associated with each site and is calculated as a percentage of build cost. Contingency allowances typically range between 3% to 10%. We have adopted a rate of 5% which falls within this range.

6.11 Affordable Housing

- 6.11.1 The current affordable housing policy for the administrative area is a target of 35% on sites of 0.5ha or above 15 dwellings as set out in Policy DC31 of the Council's Local Development Framework (LDF).
- 6.11.2 Under paragraph 5.8 of the City Council's Planning Obligations Supplementary Planning Document (SPD), adopted June 2014 the mix of affordable housing is to include 23.45% of the total number of dwellings within the development as social rented accommodation and the balance of the 35% Affordable Housing, to be intermediate housing.
- 6.11.3 The apportionment between the different tenure types is summarised in Table 6.7.

Table 6.7 Affordable Housing Requirement by Tenure Type

Affordable Housing Policy (District wide)	Affordable Rent	Intermediate Housing
35%	67%	33%

Source: Chelmsford City Council Planning Obligations Supplementary Planning Document (SPD), adopted June 2014.

6.12 Section 106 contributions

6.12.1 In addition to affordable housing contributions the Council seeks planning obligations through its Planning Obligations SPD (June 2014) for education, health, public transport improvements etc. These contributions are based on data provided by the Council as well as PBA's experience of undertaking SLAA viability studies. We have assumed the rates set out in Table 6.8.

Table 6.8 S.106 Contributions

Description	S.106 per unit
Non-Strategic Sites	£1,000
Strategic Sites	£5,000

Source: Chelmsford City Council/PBA

6.13 CIL

- 6.13.1 CIL allows authorities to raise funds from developers who are undertaking new building projects in their area. The funds raised are used to provide infrastructure which is needed in order to support the growth of the area administered by Chelmsford City Council.
- 6.13.2 CIL is applied as a charge per gross square metre of new building and is payable on new residential and retail developments in Chelmsford. Site specific contributions will still be required via S.106 agreements in addition to the provision of affordable housing.
- 6.13.3 On 1st June 2014, Chelmsford's CIL came into effect via its CIL Charging Schedule and applies to all development permitted after this date.
- 6.13.4 Table 6.9 sets out the rates payable on new residential and retail development.



Table 6.9: Community Infrastructure Levy for Retail and Residential Development

Use	Rate per sq.m
Residential	£125
Retail - Convenience	£150

Source: Chelmsford City Council's CIL Charging Schedule

6.14 Developers' profit

6.14.1 Profit is a reward for the developers' risk in undertaken the development. RICS guidance states:

...developer's profit allowance, should be at a level reflective of the market at the time of the assessment being undertaken. It will include the risks attached to the specific scheme. This will include both property-specific risk, i.e. the direct development risks within the scheme being considered, and also broader market risk issues, such as the strength of the economy and occupational demand, the level of rents and capital values, the level of interest rates and availability of finance'²⁰

- 6.14.2 Based on our experience of recent comparable schemes and the market's appetite for risk, a profit margin of 17.5% of Gross Development Value (GDV) on the market housing and 6% GDV of affordable housing has been applied (i.e. a contractors profit on the affordable housing). These rates are also in line with industry standards.
- 6.14.3 On the commercial units we have applied a profit of 15% on GDV. This is again in line with industry standards and reflective of the level of return required by the market.

6.15 Finance

6.15.1 Included within our viability model is a cashflow. This methodology is in line with both the Harman and the RICS Viability for planning guidance. The cashflow assumes the scheme is 100% debt financed at an interest rate of 7% - this is based on typical current market interest rates.

6.16 Threshold Land Values

- 6.16.1 We have based our approach to the threshold land values by:
 - Analysing greenfield and brownfield land values
 - Reference to HCA Guidance, The Harman Report and DCLG Guidance.
 - Analysis of land values agreed for the site specific S.106 viability work which PBA has undertaken on behalf of the Council.

Greenfield Land

- 6.16.2 In calculating a greenfield land value we started with an existing use value. We have based the existing use value on agricultural use. Analysis of quoted farmland prices in the Essex area suggests an average of £24,000 per gross hectare.
- 6.16.3 The HCA Transparent Viability Assumptions Report recommends to incentivise agricultural land to come forward for development a multiplier of between 10 and 20 times agricultural value should be applied. Applying these multipliers would result in a gross land value per

²⁰ RICS (2012) Financial viability in planning guidance GN 94/2012 (16)



- hectare of between £240,000 and £480,000. We have crossed referenced this with the DCLG Turner Morum report which suggests that land values for greenfield land are typically between £246,000 and £369,000 per gross hectare.
- 6.16.4 We are of the view that Chelmsford has a much stronger housing market than other parts of Essex and therefore recommend assuming the upper end of this range i.e. £480,000 per gross hectare. To this figure we need to add the cost of site servicing (infrastructure and utility costs) and make an adjustment for gross to net site area. We can then come to a conclusion on a greenfield site value per net developable hectare.
- 6.16.5 Analysis of the sample greenfield sites in Chapter 5 shows that the average gross to net is 60%. If we apply this ratio to our land value figure of £480,000 per gross hectare results in an adjusted land value of £686,000 per net hectare for an unserviced site.
- 6.16.6 The Harman report²¹ provides a range of £17,000 to £23,000 per plot for strategic infrastructure and utility costs. Taking the bottom of the range and applying it to the average development density of our greenfield scenario i.e. 35 per hectare results in a site servicing cost of £800,000 per net hectare.
- 6.16.7 If we add the site servicing costs of £595,000 per net hectare to our unserviced land value of £800,000 per net hectare equates to greenfield serviced land value for an unallocated site of £1.4 million per net hectare.

Brownfield Land

- 6.16.8 Through our experience of Section 106 viability assessments on behalf of the Council shows that there is a significant variance across Chelmsford's brownfield sites. This is due to the specific characteristics and issues of each individual site. We have seen a general trend across the area of central brownfield sites struggling to achieve policy contributions. At the same time we are also seeing instances where the premium/hope value is over-inflated due to landowners unrealistic expectations on what the land/premises are worth.
- 6.16.9 The starting position of our analysis is to consider the existing use values of brownfield sites. Our analysis of existing use values for offices in Chelmsford is circa. £1.7 million per net hectare. Average industrial land values are £688,000 per hectare. These two figures provide a range of values for our analysis.
- 6.16.10 Standard industry practice, which is supported by planning case law, suggests a premium of between 15% to 30% is applied over the existing use value of a site. The chosen percentage is derived from our assessment of the quality of the brownfield sites in the SLAA. The bulk of the sites in the urban area are either blocks of garages or traditional secondary industrial sites. Also, few are protected employment sites which typically command a lower premium as they are less likely to obtain permission for residential development. The potential therefore for these sites to be developed for housing is greater, and this is reflected by applying a higher premium. Landowners expectations will also be higher for these reasons.
- 6.16.11 In the city centre, the sites identified in the SLAA are a combination of vacant industrial land, Council owned buildings, car parks and industrial premises. Many of these are identified in the Local Plan as 'opportunity areas', which recognises their inherent development potential for other higher value uses such as residential. We are of the opinion that on these sites a 30% premium is appropriate rather than the traditional 15% to 20% as there is more certainty that higher value uses will be granted planning permission.

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²¹ Local Housing Delivery Group (June 2012) *Viability Testing Local Plans – Advice for planning practitioners* (P44)

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- 6.16.12 If we add a 30% premium (this is the hope value associated with the sites inherent development potential/incentive for landowner to sell) to both averages, this produces a land value for offices of £2.2 million per net hectare and a land value for industrial of £894,000 per net hectare.
- 6.16.13 Our assessment of the additional sites put forward through the latest SLAA call for sites has shown that around 30% of all sites are brownfield with only 23% of these located outside of the settlement boundaries. Given that the majority of the housing supply from these sites is likely to come from the main urban areas, where sites constraints are likely to impact on viability, we are of the opinion that a lower land value of £894,000 per net hectare for an unallocated site is appropriate as this value more adequately reflects the nuisances of these sites.



7 Results of Viability Testing

7.1 Introduction

7.1.1 This chapter sets out our viability analysis of the 18 sites tested. Appraisal summaries can be found in Appendix C based on current affordable housing policy, Section 106 and CIL contributions set out in Chapter 6.

7.2 The Results

- 7.2.1 The results of the viability testing (Table 7.1) of the purely residential scenarios has shown that 6 out of the 9 typologies produce a positive residual land value and also achieve the threshold land value (i.e. a landowners return is achieved) and are therefore classified as being viable. However, the two Central Chelmsford sites, Site Type 1 & 2, are marginal and unviable respectively. This is due to site constraints such as flood risk and contamination generating additional development costs.
- 7.2.2 In the Urban Area, Site Type 5 is also on the margins of viability. This is because sales values are not enough to support all policy contributions and the remediation of its previous use. Nevertheless, it still produces a residual land value and therefore the landowner may take a view on the threshold land value assumed i.e. by accepting a lower price for the land, thereby allowing the development to come forward.

Table 7.1	Site	Typologies	- Residential
Table 1.1	SILE	I Anningies	- Residelliai

								Viable?
Site Type No.	Location	Land Use Type	SHLAA Ref	Address	Net site area ha	No of dwellings	Density dph	Per Ha
				Central Chelmsford				
1	Central Chelmsford	Brownfield	CFS241	Civic Centre Land Site, Duke Street, Chelmsford	0.32	51	160	Marginal
				Central Chelmsford				
2	Central Chelmsford	Brownfield	CFS278	County Library Headquarters, Goldlay Gardens, Chelmsford	0.80	60	75	No
3	Urban Area	Brownfield	CFS266	Waterhouse Lane Depot and Nursery Waterhouse Lane, Chelmsford	0.32	21	65	Yes
4	Urban Area	Brownfield	CFS32	Allotment Gardens Seymour Street Chelmsford Essex	0.80	52	65	Yes
5	Urban Area	Greenfield	CFS250	Play Area, Cherwell Drive, Chelmsford	0.32	21	65	Marginal
				Key Rural Villages			•	
8	Key Rural Villages	Greenfield	CFS104	Horseshoe Farm, Main Road, Bicknacre, Chelmsford, Essex, CM3 4EX	0.32	11	35	Yes
9	Key Rural Villages	Greenfield	CFS116	Land East of 1-15 Millfields, Danbury, Chelmsford, Essex	1.50	53	35	Yes
10	Key Rural Villages	Greenfield	CFS46	67 Peartree Lane Bicknacre Chelmsford Essex CM3 4LS	3.50	123	35	Yes
				Other Rural Villages				
11	Other Rural Villages	Greenfield	CFS25	Land South West of 21 Seven Ash Green Chelmsford	0.32	10	30	Yes

Source: PBA

- 7.2.3 In terms of the employment typologies (see Table 7.2), three of the five scenarios are viable they include, the office scheme, B8 industrial scenario and the convenience retail store. In the case of the office scheme and convenience retail store the viability testing shows that at these values, the sites can withstand the additional brownfield remediation costs and still be viable.
- 7.2.4 On the other hand the managed workspace and B2 industrial typologies are unviable and both generate a negative residual land value. In the case of the B2 industrial scheme, the actual cost of the external works maybe lower for those parcels of land in established industrial estates which can connect easily to the existing infrastructure without the need for expensive service connections and upgrades. Similarly if a major occupier can be secured with excellent covenant strength then viability will improve greatly, producing a positive land value. In reality



there maybe instances whereby certain B2 industrial schemes do come forward for development on this basis and contribute to the future supply of employment land. However, the results show that in the immediate term the deliverability of B2 industrial land is uncertain and it is unlikely to improve unless market conditions improve.

7.2.5 In terms of the managed workspace site, the short flexible lease terms are geared to attract small businesses. Whilst Chelmsford is a prime office location in Essex in terms of managed workspace it is not a major location for this use when compared against established locations such as London. The nature of the tenants and the flexible lease terms often creates a high level of voids and poor covenant strength, which subsequently impacts on viability. However, that is not to say that all centres will be unviable. For instance, established business centres in Chelmsford, with an experienced and effective team are highly profitable and for these reasons may require additional accommodation to expand. However, the amount of land needed for this uses will be small and it is highly likely that viability will be an issue.

Table 7.2 Site Typologies - Employment

						Viable?
Site Type No.		SHLAA Ref	Address	Net site area ha	Total Floorspace	Per Ha
14	Offices	CFS241	Civic Centre Land Site, Duke Street, Chelmsford	0.06	2,000	Yes
15	Managed Workspace	CFS153	206 and 208 Main Road Broomfield Chelmsford Essex CM1 7AJ	0.12	395	No
16	Industrial - B2	CFS166	Land West of Hanbury Road, Chelmsford	1.00	2,000	No
17	Industrial - B8	CFS117	BAE Works, West Hanningfield Road, Great Baddow, Chelmsford	1.00	4,000	Yes
18	Retail - Convenience	CFS148	Land North of Cuton Hall Lane Chelmer Village Springfield Chelmsford Essex	0.05	465	Yes

Source: PBA

7.2.6 In addition to the above scenarios a number of mixed use typologies were also tested (see Table 7.3), these range from large strategic urban extension sites to small intensively developed city centre sites.

Table 7.3 Site Typologies - Mixed

								Viable?
Site Type	Location	Land Use Type	SHLAA Ref	Address	Net site area ha	No of dwellings	Employment Uses	Per Ha
6	Chelmsford Outer Fringe	Greenfield	CFS182	Land North and South of Brick Barns Farm, Mashbury Road, Chignal St James, Chelmsford, Essex	21	840	Convenience retail (465 sqm); Offices (2,000 sqm) & Industrial (5,000 sqm)	Yes
7	Key Rural Villages	Greenfield	CFS173	Land Adjacent Danbury Mission Evangelical Church, Maldon Road, Danbury, Chelmsford, Essex	10.4	416	Convenience retail (465 sqm	Yes
12	Central Chelmsford	Brownfield	CFS255	45/47 Baddow Road + area at rear Baddow Road Chelmsford CM2 0DD	0.32	48.64	Convenience retail (465 sqm	No
13	Central Chelmsford	Brownfield	CFS263	Baddow Road Car Park Baddow Road Chelmsford CM2 0DD	0.8	76.8	Offices (2,000 sqm) & Convenience retail (930 sqm)	Yes

Source: PBA

- 7.2.7 It can be seen that the majority of the mixed typologies are viable, providing a positive land value in excess of the threshold land value. From a viability perspective, these sites have the potential to contribute towards the authorities development land supply.
- 7.2.8 Typology 12 is the only mixed use scheme that is unviable. This is a city centre apartment scheme with ground floor convenience retail on a former brownfield site. It does generate a small positive residual land value. This suggests that the combination of site constraints i.e.



flood risk and contamination, in addition to the Council's policy contributions are too much of a burden on the scheme and as such it is unable support all these costs whilst also providing a profitable scheme. City centre sites without these constraints may be more viable. Similarly a more intensely developed apartment scheme may also improve viability. In these instances some small city centre residential and retail schemes will come forward for development. Furthermore, if the Council is prepared to be flexible with their affordable housing policy on these sites then this may generate viable development.



8 Conclusions

- 8.1.1 Based on the information available to us at present, in our assessment the majority of sites tested appear viable. In some instances the Council's policy contributions may need to be 'flexed' on mixed use and apartment city centre schemes that have abnormals such as flood risk or remediation, to facilitate viable development.
- 8.1.2 In the case of the small apartment schemes in the main urban areas (Typology 5), the testing has shown that these sites are more marginal as although a positive residual land value is generated it is not sufficient for the landowner to sale. These sites may come forward and contribute towards the Council's development land supply but will depend more on the negotiations between the two parties.
- 8.1.3 In terms of the remaining residential scenarios, the results of the viability exercise has shown that medium to large apartment schemes in and around the main urban areas are developable and have the potential to contribute to the authorities development supply in the future. Similarly, the Council can expect greenfield sites in and around the key rural villages and other villages to be viable.
- 8.1.4 The testing of mixed use sites, involved city centre scenarios and strategic urban extension sites in and around Chelmsford and the Key Rural Villages. Apart from the city centre retail and residential scenario (Typology 12), all the scenarios produced a positive residual land value and exceeded the threshold land value. This shows that these different development scenarios are capable of supporting the Council's policy contributions and have the potential to contribute to the areas development needs in the future.
- 8.1.5 Similarly, the majority of employment sites tested are viable. Only the B2 Industrial (Typology 16) and managed workspace (Typology 15) were unviable and in the case of the latter substantially below the threshold land value. Site specific schemes of this nature may be more viable than our high level assessment, however, in general these sites are only likely to come forward if the market improves and/or a landowner is willing to accept a lower margin.
- 8.1.6 If we extrapolate the findings of the sample sites tested in our viability assessment and apply them to the total number of SLAA sites, we can broadly say the following quantum of development sites are viable, marginal or unviable across the city, as shown in Table 8.1. However, in applying them our approach was based on the data provided by the Council at the time of writing this report. Where information relating to the proposed use was unavailable, a residential end use was assumed.

Table 8.1 Viability status and development quantum of SLAA sites as a percentage

Scenario	Total Sites	Viable sites	Marginal sites	Unviable sites
	%	% of sites	% of sites	% of sites
Residential	71%	95.5%	4%	0.5%
Office	1%	100%	0%	0%
Managed	1%	0%	0%	100%
workspace				
Industrial – B2	3%	0%	0%	100%
Industrial – B8	1%	100%	0%	0%
Convenience retail	0%	0%	0%	0%
Mixed use	17%	98%	0%	2%
Other	6%	n/a	n/a	n/a

Source: PBA



Appendix A List of Site Typologies

Site Typology – Employment & Mixed Use

Site Type No.	Location	Land Type	SHLAA Reference	Proposed Development	Gross site area	Net site area	Net:Gross Ratio	Net yield	Dwellings per ha	Form and Scale
	Chelmsford Outer Fringe	Greenfield	CFS182	Residential, offices, B2 industrial & convenience retail	50	21	80%	840	40	75% Residential (consisting of 20% flats, 16% 2 bed houses, 39% 3 bed houses & 25% 4+ bed houses); 5% convenience retail (465 sqm); 5% offices (2,000 sqm) & 15% B2 industrial (5,000 sqm)
	Key Villages Strategic Site	Greenfield	CFS173	Residential & convenience retail	20	10.4	80%	416		95% Residential (consisting of 20% flats, 16% 2 bed houses, 39% 3 bed houses & 25% 4+ bed houses) and 5% convenience retail (465 sqm)
12	Central Chelmsford	Brownfield	CFS255	Residential & convenience retail	0.4	0.32	80%	49		95% Residential (consisting of 100% flats at 6+ storeys) and 5% convenience retail (465 sqm)
13	Central Chelmsford	Brownfield	CFS263	Residential, offices & convenience retail	1	0.80	80%	77	160	60% Residential (consisting of 100% flats at 6+ storeys); 30% offices (2,000 sqm) and 10% convenience retail (930 sqm)
14	Central Chelmsford	Brownfield	CFS241	Offices	0.06	0.048	80%	0	0	100% offices (2,000 sqm)

Site Typology – Employment & Mixed Use

District Wide	Greenfield	CFS153	Managed Workspace	0.12	0.48	40%	0	0	100% managed workspace
									(465 sqm)
District Wide	Greenfield	CES166	Industrial – R2	2 5	1	40%	0	n	100% B2 industrial (2,000 sqm)
District Wide	diceillicia	CI 3100	maastriar B2	2.5	1	4070	O	J	10070 BZ IIIdd3ti1di (2,000 3qiii)
District Wide	Greenfield	CFS117	Industrial – B8	2.5	1	40%	0	0	100% B8 industrial (4,000 sqm)
Dietwiet Wiele	Drawafiald	CEC1.40	Camuanianaa Datail	0.05	0.04	000/	0	0	100% convenience retail (465
District wide	Browniieid	CF3148	Convenience Retail	0.05	0.04	80%	U		·
									sqm)
	District Wide District Wide	District Wide Greenfield District Wide Greenfield	District Wide Greenfield CFS166 District Wide Greenfield CFS117	District Wide Greenfield CFS166 Industrial – B2 District Wide Greenfield CFS117 Industrial – B8	District Wide Greenfield CFS166 Industrial – B2 2.5 District Wide Greenfield CFS117 Industrial – B8 2.5	District Wide Greenfield CFS166 Industrial – B2 2.5 1 District Wide Greenfield CFS117 Industrial – B8 2.5 1	District Wide Greenfield CFS166 Industrial – B2 2.5 1 40% District Wide Greenfield CFS117 Industrial – B8 2.5 1 40%	District Wide Greenfield CFS166 Industrial – B2 2.5 1 40% 0 District Wide Greenfield CFS117 Industrial – B8 2.5 1 40% 0	District Wide Greenfield CFS166 Industrial – B2 2.5 1 40% 0 0 District Wide Greenfield CFS117 Industrial – B8 2.5 1 40% 0 0 District Wide Brownfield CFS148 Convenience Retail 0.05 0.04 80% 0 0

Site Typology – Residential

(Including housing phases for the strategic sites)

Site Type	Location	Land Type	SHLAA	Size	Gross site	Net site	Net:Gross	l	Net	Dwellings	Form and Scale
No.			Reference	Category	area	area	Ratio	yield	yield	per ha	
1	Central Chelmsford	Brownfield	CFS241	Small	0.4	0.32	80%	64	51	160	Flats only – 6+ storeys
2	Central Chelmsford	Brownfield	CFS278	Medium	1	0.80	80%	75	60	75	Flats only – 6+ storeys
3	Urban Area	Brownfield	CFS266	Small	0.4	0.32	80%	26	21	65	Flats only – between 2 & 3 storeys
4	Urban Area	Brownfield	CFS32	Medium	1	0.80	80%	65	52	65	Flats only – between 2 & 3 storeys
5	Urban Area	Greenfield	CFS250	Small	0.4	0.32	80%	26	21	65	Flats only – between 2 & 3 storeys
	Chelmsford Outer Fringe	Greenfield	CFS182	Large	50	25.00	55%	2000	825	40 (average)	80% houses & 20% flats
	Key Rural Villages Strategic Sites	Greenfield	CFS173	Large	20	10	55%	800	418	40	80% houses & 20% flats
8	Key Rural Villages	Greenfield	CFS104	Small	0.4	0.32	80%	14	11	35	Houses only
9	Key Rural Villages	Greenfield	CFS116	Medium	2	1.5	75%	70	53	35	Houses only
10	Key Rural Villages	Greenfield	CFS46	Large	5	3.5	70%	175	123	35	80% houses & 20% flats
11	Other Rural Villages	Greenfield	CFS25	Small	0.4	0.32	80%	12	10	30	Houses only



Appendix B Appraisal Assumptions

Assumption	Source	Notes				
Revenue						
Sales values of residential and employment uses	EGI, CoStar, Land Registry, market comparables & Consultation	housing, Land Registry data forms a basis for analysis. This provides a full record of all individual transactions. This data is then supplemented with conversations with local agents, which allows us to form a view on new build sales values. In terms of the employment, EGi and CoStar data forms the basis of our analysis, which we have supplement with our own in-house data gathered from undertaking a number of site specific S.106 viability studies in the administrative area. The values used are as follows: Houses - £3,513 per sq.m Flats - £3,513 per sq.m Offices - £250 per sq m capitalised at 7.5% Managed Workspace - £40 per sq m capitalised at 9.5% Industrial – B2 - £72 per sq m capitalised at 7%. Industrial – B8 - £83 per sq m capitalised at 5.5%. We have assumed the following price paid per unit as a percentage of market				
Affordable housing transfer values	PBA and Chelmsford City Council	value as follows: • Affordable Rent = 50% of ope • Intermediate Housing = 60% This equates to the following values per Affordable Rent Type Houses Flats Intermediate Housing Type Houses	en market value; of market value. sq.m: Value per sq.m £1,757 £2,108 Value per sq.m £1,757			
		Flats	£2,108			
Construction costs Construction	BCIS Online	BCIS is published by RICS on a quarterly basis. BCIS offers a range of prices dependent on the final specification and are derived from BCIS Review of Building Prices data of actual prices in the marketplace. The build costs used in the model are based on median rates adjusted for location. They exclude any allowance for externals which is treated separately. The following build costs used are rebased for Essex:				
		Market houses Affordable rent houses Intermediate houses Market flats (3 – 5 storeys) Affordable rent flats (3 – 5 storeys) Intermediate flats (3 – 5 storeys) Market flats (6+ storeys) Affordable rent flats (6+ storeys) Intermediate flats (6+ storeys) Offices (Generally & Air Conditioned)	£964 per sq.m £964 per sq.m £964 per sq.m £1,136 per sq.m £1,136 per sq.m £1,136 per sq.m £1,438 per sq.m £1,438 per sq.m £1,438 per sq.m £1,438 per sq.m			

		Managed Workspace (Generally)	£1,394 per sq.m
		Industrial – B2 (New Build Factories, 500 to 2,000 sqm)	£767 per sq.m
		Industrial – B8 (New Build Warehouses, over 2,000 sqm)	£472 per sq.m
		Retail – Local Convenience (up to 1,000 sqm)	£1,164 per sq.m
Remediation/	Industry	We have assumed the following remedia	ALION COSIS:
Demolition	Standards	Greenfield £0 per heci Brownfield £200,000 per heci	
	Industry	These covers external build costs for sit internal access roads, landscaping, ope	e preparation and includes items such as
Plot external	Standards	Greenfield	15%
		Brownfield	10%
		These exclude abnormal site developme infrastructure.	·
Qu.		The Community Infrastructure Levy (CII Schedule. The following rates have been convenience retail:	 L) is based on the City Council's Charging en assumed for residential and
CIL	Council Policy	Residential - £125 per sq.m Convenience Retail - £150 per sq.m	
Developer Contributions (S106/S278)	Planning policy, PBA & Council's Database	In addition to affordable housing contributions through its Planning Obligations through its Planning Obligation health, public transport improvements elements.	ons SPD (June 2014) for education,
		These contributions are based on the S. in Chelmsford City Council's CIL Viabilit 2013). We have applied the following.	106 Infrastructure Assumptions included y Evidence Base Report (February
		S.106	£1,000 per unit
		S.106 – Strategic Sites	£5,000 per unit
			ry from site to site and will depend on e, development type, site area gross to tional costs involved for flood mitigation
Flood Mitigation	Allowance	S.106 – Strategic Sites The extent of flood risk mitigation will va many factors such as: development size net, and site typography. To reflect addit measures we have allowed for the follow	ry from site to site and will depend on e, development type, site area gross to tional costs involved for flood mitigation
	Allowance Industry Standards	S.106 – Strategic Sites The extent of flood risk mitigation will va many factors such as: development size net, and site typography. To reflect addit measures we have allowed for the follow Flood Zone 1: Low Probability 1 Zone 2: Medium Probability 2 Zone 3a: High Probability 3a Zone 3b: Functional Floodplain 3b Contingency is an expression of risk relations and sites are sites as a site of the sites and sites are sites as a site of the sites are sites as	ry from site to site and will depend on e, development type, site area gross to tional costs involved for flood mitigation ving increases in BCIS costs. risk score Cost allowance uplift 3% 8% 15% 20%
Contingency	Industry	S.106 – Strategic Sites The extent of flood risk mitigation will va many factors such as: development size net, and site typography. To reflect addit measures we have allowed for the follow Flood Zone 1: Low Probability 1 Zone 2: Medium Probability 2 Zone 3a: High Probability 3a Zone 3b: Functional Floodplain 3b Contingency is an expression of risk relationship to site. We have adopted a ge	ry from site to site and will depend on e, development type, site area gross to tional costs involved for flood mitigation ving increases in BCIS costs. risk score Cost allowance uplift 3% 8% 15% 20% atting to a specific scheme and will vary
Flood Mitigation Contingency Fees Professional fees	Industry	S.106 – Strategic Sites The extent of flood risk mitigation will va many factors such as: development size net, and site typography. To reflect addit measures we have allowed for the follow Flood Zone 1: Low Probability 1 Zone 2: Medium Probability 2 Zone 3a: High Probability 3a Zone 3b: Functional Floodplain 3b Contingency is an expression of risk relationship to site. We have adopted a ge	ry from site to site and will depend on e, development type, site area gross to tional costs involved for flood mitigation ving increases in BCIS costs. risk score Cost allowance uplift 3% 8% 15% 20% ating to a specific scheme and will vary neric average of 5% though in practice it

		following industry standards:				
			Sales	Lettings		
		Survoyer	1.00%	10.00%		
		Surveyor -				
		Legal - Stamp duty has been charged at the	0.50%	5.00%		
		Stamp duty has been charged at the	ie prevailing rate.			
Finance costs	Industry standards	Finance costs assume an interest rate of 7%.				
Stamp Duty on Land Purchase	HMRC	Stamp duty has been charged on the land purchase at the prevailing rate.				
	Industry	Fees associated with the land purc industry standards:	chase are based up	on the following		
Professional fees	standards	Surveyor -	1.00%			
on Land Purchase		Legal -	0.75%			
Profit		20gai	3.7070			
Profit	Industry standards	Developer profit is a reflection of d a project the greater return is soug a lower developer profit is applied is mitigated through having a end- construction. The following rates h comparables of similar schemes:	ht to off-set the risk to the affordable ho user in place (i.e. pr	. It is industry practice that using units as the risk here e-sales) prior to		
		Affordable 6	7.50% of value % of value 5% of value			
Threshold Land Va	lue per net developa	ble ha				
Threshold Land	DDA a mortest	We have examined a cross section comparables. We aim to arrive at serviced site, with roads and major sites require remediation this has the developer. In setting a suitable threshold land that: "Threshold Land Value is bas credible alternative use values (no the site has been identified as brown and several treatments and several treatments."	the price that a land r utilities to the site open dealt with by we value we have con ed on a premium of ting the exceptions wnfield we have cor	downer will accept for a coundary. Note that where vay of a separate cost to sidered the Harman report ver current use values and below)." Therefore, where isidered this to be an		
Value	PBA & market comparables	employment value plus landowners premium (applied at 30%), with greenfield sites assessed against residential values. Employment land values vary across the District depending on location and actual employment use. Residential values depend on local market conditions and are therefore subject to change. The existing use value plus premium is an acceptable methodology set out in the Harman report.				
		The following land values have been	en used:			
		Brownfield £894,000 Greenfield £1,400,000	per net ha per net h			
Other						
		For the residential e have assumed	d the following build	out period:		
		Small	24 per annu	ım		
Time-scales - build	Industry	Medium	32 per annu			
rate	Standards	Large	32 per annu	ım		
		Key Rural Villages Strategic Site	s 50 per annu	ım		
		Chelmsford Outer Fringe	150 per anr	num		

		For the commercial schemes we	have assumed the following build out period:
		Offices	9 months
		Managed Workspace	6 months
		Industrial – B2	9 months
		Industrial – B8	9 months
		Convenience Retail	6 months
Threshold Land Value	PBA & market comparables	comparables. We aim to arrive a serviced site, with roads and maj sites require remediation this has the developer. In setting a suitable threshold lar that: "Threshold Land Value is be credible alternative use values (remediate has been identified as bremployment value plus landownesites assessed against residentiathe District depending on location values depend on local market control of the service of th	on of residential and commercial land at the price that a landowner will accept for a jor utilities to the site boundary. Note that where is been dealt with by way of a separate cost to and value we have considered the Harman report ased on a premium over current use values and noting the exceptions below)." Therefore, where ownfield we have considered this to be an ers premium (applied at 30%), with greenfield at values. Employment land values vary across in and actual employment use. Residential conditions and are therefore subject to change inium is an acceptable methodology set out in the open used:
		Greenfield £1,400,000 In terms of the residential units the Nationally Described Space Starn Draft (September 2014). The followed:	·
		Residential	
	Industry	Houses – 2 bed	79 sq.m
	standards, market	Houses – 3 bed	102 sq.m
Avorago unit sizo	comparables &	Houses – 4+ bed	124 sq.m
Average unit size	Nationally	Flats NIA	51 sq.m
	Described Space	Flats GIA	60 sq.m
	Standards	Employment Offices Managed Workspace	2,000 sq.m 465 sq.m
		Industrial B2	2,000 sq.m
		Industrial B8	4,000 sq.m
		I IIIuusiilai Do	



Appendix C Detailed Appraisals

Peter Brett Associates

Development Appraisal

Report Date: 14 August 2015

Equivalent Yield% (Nominal)

Equivalent Yield% (True)

IRR

Summary Appraisal for Phase 1 Offices

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Rental Area Summary	Units	m²	Rate m ²	Initial MRV/Unit	Net Rent at Sale
Offices	1	1,700.00	£250.00	£425,000	425,000
Investment Valuation Offices Current Rent	425,000	YP @	7.5000%	13.3333	5,666,667
NET REALISATION				5,666,667	
OUTLAY					
ACQUISITION COSTS Residualised Price (0.06 Ha £13,568,784.96 pHect) Stamp Duty Agent Fee Legal Fee		4.00% 1.00% 0.75%	814,127 32,565 8,141 6,106	860,939	
CONSTRUCTION COSTS	2	Data m²	Coot	000,000	
Construction Offices	m² 2,000.00	Rate m² £1,494.00	Cost 2,988,000	2,988,000	
Contingency Remediation/Demolition	0.06 ha	5.00% 200,000.00 /ha	149,400 12,000	161,400	
Other Construction External Works		10.00%	298,800	298,800	
PROFESSIONAL FEES Architect		10.00%	328,680	220 600	
MARKETING & LETTING Letting Agent Fee Letting Legal Fee		10.00% 5.00%	42,500 21,250	328,680	
DISPOSAL FEES		3.0070	21,230	63,750	
Sales Agent Fee Sales Legal Fee		1.00% 0.50%	56,667 28,333	85,000	
FINANCE Debit Rate 7.000% Credit Rate 0.000% (Nominal) Land Construction			56,607 84,358		
Total Finance Cost				140,965	
TOTAL COSTS				4,927,534	
PROFIT				739,132	
Performance Measures Profit on Cost% Profit on GDV% Profit on NDV% Development Yield% (on Rent)		15.00% 13.04% 13.04% 8.63%			

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7.50%

7.87%

39.24%

APPRAISAL SUMMARY

PETER BRETT ASSOCIATES

Rent Cover Profit Erosion (finance rate 7.000%) 1 yr 9 mths 2 yrs

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Peter Brett Associates

Development Appraisal

Report Date: 14 August 2015

Summary Appraisal for Phase 1 Managed Workspace

REVENUE

Rental Area Summary	Units	m²	Rate m²	Initial MRV/Unit	Net Rent at Sale	Initial MRV
Managed Workspace	1	395.25	£40.00	£15,810	15,810	15,810
Investment Valuation Managed Workspace Current Rent	15,810	YP @	9.5000%	10.5263	166,421	
NET REALISATION				166,421		
OUTLAY						
ACQUISITION COSTS Residualised Price			(677,168)	(677,168)		
CONSTRUCTION COSTS Construction Managed Workspace	m² 465.00	Rate m ² £1,394.00	Cost 648,210	648,210		
Contingency		5.00%	32,410	32,410		
Other Construction External Works		10.00%	64,821	64,821		
PROFESSIONAL FEES Architect		10.00%	71,303	74 202		
MARKETING & LETTING Letting Agent Fee Letting Legal Fee		10.00% 5.00%	1,581 791	71,303		
DISPOSAL FEES Sales Agent Fee Sales Legal Fee		1.00% 0.50%	1,664 832	2,372		
FINANCE Debit Rate 7.000% Credit Rate 0.000% (Nominal)				2,496		
Land Construction Total Finance Cost			(10,990) 11,259	269		
TOTAL COSTS				144,714		
PROFIT				21,707		
Performance Measures Profit on Cost% Profit on GDV% Profit on NDV% Development Yield% (on Rent) Equivalent Yield% (Nominal) Equivalent Yield% (True) IRR Rent Cover Profit Erosion (finance rate 7.000%)		15.00% 13.04% 13.04% 10.93% 9.50% 10.09% (13.13)% 1 yr 4 mths 2 yrs				

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Peter Brett Associates

Development Appraisal

Report Date: 14 August 2015

Equivalent Yield% (Nominal)

Equivalent Yield% (True)

Summary Appraisal for Phase 1 Supermarket

REVENUE

Rental Area Summary	Units	m²	Rate m²	Initial MRV/Unit	Net Rent at Sale
Retail - Convenience	1	465.00	£200.00	£93,000	93,000
Investment Valuation Retail - Convenience Current Rent	93,000	YP @	5.5000%	18.1818	1,690,909
	00,000	0	0.000070		1,000,000
NET REALISATION				1,690,909	
OUTLAY					
ACQUISITION COSTS Residualised Price (0.05 Ha £11,870,908.37 pHect) Stamp Duty Agent Fee Legal Fee		4.00% 1.00% 0.75%	593,545 23,742 5,935 4,452	007.074	
CONSTRUCTION COSTS				627,674	
Construction Retail - Convenience	m² 465.00	Rate m ² £1,164.00	Cost 541,260	541,260	
Contingency Remediation/Demolition CIL	0.05 ha 465.00 m²	5.00% 200,000.00 /ha 150.00 pm²	27,063 10,000 69,750		
				106,813	
Other Construction External Works		10.00%	54,126	54,126	
PROFESSIONAL FEES					
Architect		10.00%	59,539		
MARKETING & LETTING				59,539	
Letting Agent Fee		10.00%	9,300		
Letting Legal Fee		5.00%	4,650		
DISPOSAL FEES				13,950	
Sales Agent Fee		1.00%	16,909		
Sales Legal Fee		0.50%	8,455		
FINANCE				25,364	
Debit Rate 7.000% Credit Rate 0.000% (Nominal)					
Land Construction			29,764 11,865		
Total Finance Cost			11,003	41,630	
TOTAL COSTS				1,470,355	
PROFIT					
				220,554	
Performance Measures					
Profit on Cost%		15.00%			
Profit on GDV%		13.04%			
Profit on NDV%		13.04%			
Development Yield% (on Rent)		6.33%			

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5.50%

5.69%

APPRAISAL SUMMARY

PETER BRETT ASSOCIATES

2 yrs

IRR 39.82%

Rent Cover 2 yrs 4 mths Profit Erosion (finance rate 7.000%)

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PETER BRETT ASSOCIATES

Initial MRV 93,000

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Peter Brett Associates

Development Appraisal

Report Date: 14 August 2015

Summary Appraisal for Phase 1 Industrial - B8

REVENUE

IRR

Rental Area Summary	Units	m²	Rate m ²	Initial MRV/Unit	Net Rent at Sale
Industrial - B8	1	4,000.00	£70.00	£280,000	280,000
Investment Valuation Industrial - B8 Current Rent	280,000	YP @	6.7500%	14.8148	4,148,148
NET REALISATION				4,148,148	
OUTLAY					
ACQUISITION COSTS Residualised Price (1.00 Ha £950,398.85 pHect) Stamp Duty Agent Fee Legal Fee		4.00% 1.00% 0.75%	950,399 38,016 9,504 7,128	1,005,047	
CONSTRUCTION COSTS Construction Industrial - B8	m² 4,000.00	Rate m ² £472.00	Cost 1,888,000	1,888,000	
Contingency		5.00%	94,400	04.400	
Other Construction				94,400	
External Works		10.00%	188,800	188,800	
PROFESSIONAL FEES Architect		10.00%	207,680	207,680	
MARKETING & LETTING Letting Agent Fee Letting Legal Fee		10.00% 5.00%	28,000 14,000		
DISPOSAL FEES Sales Agent Fee Sales Legal Fee		1.00% 0.50%	41,481 20,741	42,000	
FINANCE Debit Rate 7.000% Credit Rate 0.000% (Nominal) Land Construction Total Finance Cost			66,082 52,854	62,222 118,936	
TOTAL COSTS				3,607,085	
PROFIT					
				541,064	
Performance Measures Profit on Cost% Profit on GDV% Profit on NDV% Development Yield% (on Rent) Equivalent Yield% (Nominal) Equivalent Yield% (True)		15.00% 13.04% 13.04% 7.76% 6.75% 7.04%			

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35.13%

APPRAISAL SUMMARY

PETER BRETT ASSOCIATES

Rent Cover Profit Erosion (finance rate 7.000%) 1 yr 11 mths 2 yrs

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Peter Brett Associates

Development Appraisal

Report Date: 14 August 2015

Summary Appraisal for Phase 1 Industrial B2

REVENUE

Rental Area Summary	Units	m²	Rate m ²	Initial MRV/Unit	Net Rent at Sale
Industrial - B2	1	2,000.00	£72.00	£144,000	144,000
Investment Valuation					
Industrial - B2	444.000	\/D @	7.00000/	44.0057	0.057.440
Current Rent	144,000	YP @	7.0000%	14.2857	2,057,143
NET REALISATION				2,057,143	
OUTLAY					
ACQUISITION COSTS					
Residualised Price			(229,513)	(229,513)	
CONSTRUCTION COSTS				(225,515)	
Construction	m²	Rate m ²	Cost		
Industrial - B2	2,000.00	£767.00	1,534,000	1,534,000	
Contingency		5.00%	76,700		
Other Construction				76,700	
External Works		10.00%	153,400		
External Works		10.0070	100,400	153,400	
PROFESSIONAL FEES					
Architect		10.00%	168,740	100 710	
MARKETING & LETTING				168,740	
Letting Agent Fee		10.00%	14,400		
Letting Legal Fee		5.00%	7,200		
DISPOSAL FEES				21,600	
Sales Agent Fee		1.00%	20,571		
Sales Legal Fee		0.50%	10,286		
FINANCE				30,857	
FINANCE Debit Rate 7.000% Credit Rate 0.000% (Nominal)					
Land			(9,908)		
Construction			42,944		
Total Finance Cost				33,036	
TOTAL COSTS				1,788,820	
PROFIT					
				268,322	
Performance Measures					
Profit on Cost%		15 00%			

enonnance weasures	
Profit on Cost%	15.00%
Profit on GDV%	13.04%
Profit on NDV%	13.04%
Development Yield% (on Rent)	8.05%
Equivalent Yield% (Nominal)	7.00%
Equivalent Yield% (True)	7.32%
IRR	69.03%
Rent Cover	1 yr 10 mths
Profit Erosion (finance rate 7.000%)	2 yrs

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Typology Central Chelmsford - Mix	SHLAA Reference	Size Category Medium	Net site area	Net yield	Land Use Type Brownfield					
Central Chemision - Mix	C	Mediaiii	0.0	71	Brownneid					
Residual Land Value			No. of private units		No. of affordable un	its			peterb	COFF
-£402,905	per ha		50		27				petero	ell
Development Value										
Private Units					No. of units	Size sq.m	Total sq.m	£psm	Total Value	
	Flats Houses - 2 bed				50 0	51 79	2,546 0	£3,513 £3,513	£8,943,817 £0	\exists
	Houses - 3 bed Houses - 4+ bed				0 0	102 124	0 <u>0</u>	£3,513 £3,513	£0 £0	\exists
					50		2,546			
Intermediate	Flats				No. of units	Size sq.m 51	452	£psm £2,108	Total Value £953,548	\supset
	Houses - 2 bed Houses - 3 bed				0	79 102	0	£2,108 £2,108	£0 £0	Ⅎ
	Houses - 4+ bed				<u>0</u> 9	124	<u>0</u> 452	£2,108	£0	_
Affordable rent	Flats				No. of units	Size sq.m	040	£psm	Total Value	_
	Houses - 2 bed Houses - 3 bed				18 0 0	51 79 102	918 0 0	£1,757 £1,757 £1,757	£1,613,327 £0 £0	╡
	Houses - 4+ bed				<u>0</u> 18	124	<u>0</u> 918	£1,757	£0	<u> </u>
									044.540.000	
Gross Development Value Development Cost	ie				77		3,917		£11,510,692	
Site Acquisition										
Site Value									-£322,324	\Box
						Purchaser Costs			1.75%	
Residual Land Value									6227.064	
Build Costs									-£327,964	
Private units					No. of units	Size sq.m	Cost per sq.m		Total Costs	
	Flats Houses - 2 bed				50 0	60 79	£1,438 £964		£4,307,098 £0	_
	Houses - 3 bed Houses - 4+ bed				0	102 124	£964 £964		£0 £0	<u> </u>
Internal dist					50	0	01		Tatal Ocata	
Intermediate	Flats Houses - 2 bed				No. of units 9 0	Size sq.m 60 79	Cost per sq.m £1,438 £964		Total Costs £765,338 £0	\exists
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				0	102 124	£964 £964		£0 £0	╡
	Houses - 4+ bed				9	124	1304		2.0	→
Affordable rent	Flats				No. of units 18	Size sq.m 60	Cost per sq.m £1,438		Total Costs £1,553,868	\neg
	Houses - 2 bed Houses - 3 bed				0	79 102	£964 £964		£0 £0	7
	Houses - 4+ bed				0 18	124	£964		£0	コ
					77	4608			£6,626,304	
Externals										
Plot external						10%	as a percentage of b	uild costs	£662,630	\neg
Remediation/Demolition						£200,000	per ha		£160,000	_ _
Flood risk mitigation	[Flood zone 3a	Ā	Approx. % site eff 50%	ected	15%	cost uplift as a perce	entage of build costs	£496,973	_
									£1,319,603	
Professional Fees										
as percentage of construct	tion costs (build and externals)					10%			£794,591	コ
Contingency									£794,591	
	tion costs (build and externals)					5%			£331,315	\neg
	,					<u> </u>			£331,315	
Developer contributions									2001,010	
S.106						£1,000	per unit		£76,800	\supset
CIL						£125	per sq m		£374,400	
Sale cost									£451,200	
Legals -						£500			£38,400	コ
Sales & Marketing cost -						3.00%			£345,321	コ
									£383,721	
TOTAL DEVELOPMENT (Developers' Profit	COSTS								£9,578,770	
Developers Front						Rate				
Private Housing Affordable Housing						17.50% 6%	of sales of sales		£1,565,168 £154,013	7
- I I I I I I I I I I I I I I I I I I I									£1,719,180	
TOTAL PROJECT COCT	S (EVOLUDING INTERPOT									
	S [EXCLUDING INTEREST] . COSTS [EXCLUDING INTER	ESTI							£11,297,950	
	. 30313 [EXCLUDING INTER	.201]				ADD		DCM	£212,742	
Finance Costs						APR 7.00%		PCM 0.565%	-£212,742	
TOTAL PROJECT COSTS	S [INCLUDING INTEREST]								£11,510,692	
	repared by Peter Brett Associa nal 'Red Book' (RICS Valuatior						pose of the appraisal is to	inform the client on potentia	al overage generated from residentia	al development.

Typology	SHLAA Reference	Size Category	Net site area	Net yield	Land Use Type					a line
Central Chelmsford - Mixed Use	CFS255	Small	0.3	49	Brownfield					
Residual Land Value			No. of private units		No. of affordable u	nits			peterb	rett
-£552,588	per ha		32	l	17					
Davidanmant Value										
Development Value					No. of units	Sina an m	Total on m	Coom	Total Value	
Private Units	Flats				32	Size sq.m 51	Total sq.m 1,612	£psm £3,513	Total Value £5,664,417]
	Houses - 2 bed Houses - 3 bed				0	79 102	0	£3,513 £3,513	£0 £0	
	Houses - 4+ bed				0 32	124	<u>0</u> 1,612	£3,513	£0	_
Intermediate					No. of units	Size sq.m		£psm	Total Value	
	Flats Houses - 2 bed				6 0	51 79	287 0	£2,108 £2,108	£603,914 £0	Ⅎ
	Houses - 3 bed Houses - 4+ bed				0 <u>0</u>	102 124	0 <u>0</u> 287	£2,108 £2,108	£0 £0	<u> </u>
					6		287			
Affordable rent	Flats				No. of units 11	Size sq.m 51	582	£psm £1,757	Total Value £1,021,774	コ
	Houses - 2 bed Houses - 3 bed				0 0	79 102	0 0	£1,757 £1,757	£0 £0	<u> </u>
	Houses - 4+ bed				<u>0</u> 11	124	<u>0</u> 582	£1,757	£0	
Gross Development Valu	Ie .				49		2,481		£7,290,105	
Development Cost							2,.0.		2.,200,.00	
Site Acquisition										
Site Value									-£176,828	\Box
						Purchaser Costs			1.75%	
									0.770.000	
Residual Land Value Build Costs									-£179,923	
Private units					No. of units	Size sq.m	Cost per sq.m		Total Costs	
	Flats Houses - 2 bed				32 0	60 79	£1,438 £964		£2,727,828 £0	7
	Houses - 3 bed Houses - 4+ bed				0 0	102 124	£964 £964		£0 £0	7
					32					_
Intermediate	Flats				No. of units	Size sq.m 60	Cost per sq.m £1,438		Total Costs £484,714	\neg
	Houses - 2 bed Houses - 3 bed				0	79 102	£964 £964		£0 £0	7
	Houses - 4+ bed				0	124	£964		£0	\exists
Affordable rent					No. of units	Size sq.m	Cost per sq.m		Total Costs	
	Flats Houses - 2 bed				11	60 79	£1,438 £964		£984,117 £0	\exists
	Houses - 3 bed Houses - 4+ bed				0	102 124	£964 £964		£0 £0	7
	1100000 11 200				11		2001		20	→
					49	2918			£4,196,659	
Externals										
Plot external						10%	as a percentage of buil	ld costs	£419,665.92	\Box
Remediation/Demolition		Flood zone		Approx. % site ef	footod	£200,000	per ha		£64,000	\Box
Flood risk mitigation		3a]	50%	Tected	15%	cost uplift as a percent	age of build costs	£314,749	\Box
									£798,415	
Professional Fees										<u></u>
as percentage of construc	tion costs (build and externals)					10%			£499,507	
Contingency									£499,507	
	tion costs (build and externals)	ı				5%			£209,833	\neg
										_
Developer contributions									£209,833	
S.106						£1,000	per unit		£48,640	_
CIL						£125	per sq m		£237,120	
Sale cost									£285,760	
Legals -						£500	\neg		£24,320	_
Sales & Marketing cost -						3.00%	<u> </u>		£218,703	_ _
									£243,023	
TOTAL DEVELOPMENT	COSTS								£6,053,275	
Developers' Profit										
Private Housing						Rate 17.50%	of sales		£991,273	7
Affordable Housing						6%	of sales		£997,541	╛
									£1,088,814	
TOTAL PROJECT COST	S [EXCLUDING INTEREST]								£7,142,090	
TOTAL INCOME - TOTAL	COSTS [EXCLUDING INTER	REST]							£148,015	
Finance Costs						APR		РСМ		
						7.00%		0.565%	-£148,015	
	S [INCLUDING INTEREST]								£7,290,105	
	repared by Peter Brett Associa mal 'Red Book' (RICS Valuation						pose of the appraisal is to in	nform the client on potenti	al overage generated from residentia	al development.

Typology Other Rural Villages	SHLAA Reference CFS25	Size Category Small	Net site area	Net yield	Land Use Type Greenfield					
Other Kurai Villages	01 323	Siliali	0.3	10	Greenneid					
Residual Land Value			No. of private units		No. of affordable un	its			peterb	COFF
£2,347,442	per ha		6		3				petero	ell
Development Value										
Private Units	_				No. of units	Size sq.m	Total sq.m	£psm	Total Value	_
	Flats Houses - 2 bed				1 1	51 79	64 79	£3,513 £3,513	£223,595 £277,083	<u> </u>
	Houses - 3 bed Houses - 4+ bed				2	102 124	248 <u>193</u> 584	£3,513 £3,513	£872,022 £679,555	<u> </u>
					6	a.	584	•	-	
Intermediate	Flats Houses - 2 bed				No. of units 0 0	Size sq.m 51 79	11 14	£psm £2,108 £2,108	Total Value £23,839 £29,541	7
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				0 <u>0</u>	102 124	44	£2,108 £2,108	£92,971 £72,451	╡
	Flouses - 4+ bed				1	124	<u>34</u> 104	22,100	212,701	⊣
Affordable rent	Flats				No. of units	Size sq.m 51	23	£psm £1,757	Total Value £40,333	П
	Houses - 2 bed Houses - 3 bed				0 1	79 102	28 90	£1,757 £1,757	£49,982 £157,299	7
	Houses - 4+ bed				<u>1</u> 2	124	<u>70</u> 211	£1,757	£122,581	コ
Gross Development Valu	e				10		899		£2,641,253	
Development Cost										
Site Acquisition										
Site Value									£751,182	コ
						Purchaser Costs			5.75%	
Residual Land Value									£794,374	
Build Costs										
Private units	Flats				No. of units	Size sq.m 60	Cost per sq.m £1,134		Total Costs £84,914	コ
	Houses - 2 bed Houses - 3 bed				1 2	79 102	£964 £964		£76,034 £239,291	₫
	Houses - 4+ bed				2 6	124	£964		£186,476	_
Intermediate					No. of units	Size sq.m	Cost per sq.m		Total Costs	_
	Flats Houses - 2 bed				0 0 0	60 79	£1,134 £964		£15,089 £13,511	₫
	Houses - 3 bed Houses - 4+ bed				0 0 1	102 124	£964 £964		£42,520 £33,135	Ⅎ
Affordable rent					No. of units	Size sq.m	Cost per sq.m		Total Costs	
Anordable rent	Flats Houses - 2 bed				0 0	60 79	£1,134 £964		£30,634 £27,431	7
	Houses - 3 bed Houses - 4+ bed				1 1	102 124	£964 £964		£86,329 £67,275	7
					2					_
Externals					10	916			£902,639	
LAGINAIS						_				
Plot external						15%	as a percentage of bu	uild costs	£135,396	⅃ ━
Remediation/Demolition	r	Flood zone	A	pprox. % site eff	fected	£0	per ha	atana af haild a ata	03	」 ¬
Flood risk mitigation	L	0		0%		FALSE	cost uplift as a perce	ntage of build costs	£0 £135,396	
Professional Fees									£133,396	
as percentage of construct	ion costs (build and externals)					10%			£103,803	コ
									£103,803	
Contingency	ing and the tide and automate)					50/			045.400	_
as percentage of construct	ion costs (build and externals)					5%			£45,132	
Developer contributions									£45,132	
S.106						£1,000	per unit		£9,600	7
CIL						£125	per sq m		£74,428	<u> </u>
Sale cost									£84,028	
Legals -						£500			£4,800	コ
Sales & Marketing cost -						3.00%			£79,238	コ
									£84,038	
TOTAL DEVELOPMENT (Developers' Profit	COSTS								£2,149,410	
Developers Front						Rate				
Private Housing Affordable Housing						17.50% 6%	of sales of sales		£359,145 £35,340	7
									£394,485	
TOTAL PROJECT COSTS	S [EXCLUDING INTEREST]								£2,543,894	
	COSTS [EXCLUDING INTER	EST1							£97,358	
Finance Costs	The second in the	-				APR		PCM	20.,500	
						7.00%		0.565%	-£97,358	コ
	[INCLUDING INTEREST]								£2,641,253	
	repared by Peter Brett Associanal 'Red Book' (RICS Valuation						pose of the appraisal is to	inform the client on potentia	al overage generated from residential	I development.

Typology Key Rural Villages	SHLAA Reference CFS46	Size Category Large	Net site area	Net yield 123	Land Use Type Greenfield				ab	
		-	No. of private							
Residual Land Value £2,523,296	per ha	_ _ (units 80		No. of affordable un	its			peterb	rett
Development Value										
Private Units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 16 13 31 20 80	Size sq.m 51 79 102 124	Total sq.m 812 1,006 3,167 <u>2,468</u> 7,454	£psm £3,513 £3,513 £3,513 £3,513	Total Value £2,853,171 £3,535,694 £11,127,366 £8,671,401	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 3 2 6 4 14	Size sq.m 51 79 102 124	144 179 563 <u>439</u> 1325	£psm £2,108 £2,108 £2,108 £2,108	Total Value £304,192 £376,959 £1,186,348 £924,505	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 6 5 11 7 29	Size sq.m 51 79 102 124	293 363 1,143 <u>891</u> 2689	£psm £1,757 £1,757 £1,757 £1,757	Total Value £514,668 £637,785 £2,007,206 £1,564,187	
Gross Development Valu	le				123		11,468		£33,703,483	
Site Acquisition Site Value						Purchaser Costs			£8,831,537 5.75%	
Residual Land Value									£9,339,350	
Build Costs Private units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 16 13 31 20 80	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £1,083,537 £970,227 £3,053,453 £2,379,514	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 3 2 6 4 14	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £192,536 £172,402 £542,575 £422,821	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 6 5 11 7 29	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £390,907 £350,028 £1,101,592 £858,455	
Externals					123	11003			211,310,040	
Plot external Remediation/Demolition Flood risk mitigation		Flood zone 0	Ĺ	Approx. % site eft 0%	fected	15% £0 FALSE	as a percentage of bu per ha cost uplift as a percen		£1,727,707.17 £0	
Professional Fees									£1,727,707	
as percentage of construc	tion costs (build and externa	als)				10%			£1,324,575 £1,324,575	
Contingency as percentage of construc	tion costs (build and externa	als)				5%			£575,902	\exists
Developer contributions									£575,902	
S.106 CIL						£1,000 £125	per unit per sq m		£122,500 £949,727 £1,072,227	3
Sale cost Legals -						£500			£61,250	
Sales & Marketing cost -						3.00%			£1,011,104	
TOTAL DEVELOPMENT	COSTS								£1,072,354 £26,630,165	
Developers' Profit	00010								220,000,100	
Private Housing Affordable Housing						Rate 17.50% 6%	of sales of sales		£4,582,836 £450,951 £5,033,787	3
TOTAL PROJECT COST	S [EXCLUDING INTEREST	1							£31,663,951	
TOTAL INCOME - TOTAL	COSTS [EXCLUDING INT	EREST]							£2,039,531	
Finance Costs						APR 7.00%		PCM 0.565%	-£2,039,531	\exists
	S [INCLUDING INTEREST]	iciatae on hoholf of the -1	ient The appreciable	as heen property	I in line with the BICC calc	ation quidance. The accord	nose of the approise! is to	inform the client on retards	£33,703,483	al devolopment
This appraisal is not a forr	repared by Peter Brett Asso mal 'Red Book' (RICS Valua	tion – Professional Stand	lards January 2014) v	valuation and sho	ould not be relied upon as	adon guidance. The purp such.	pose or the appraisal is to i	anomi ale cilent on potentia	ai overage generateu irom residenti	ai uevelopinent.

Typology Key Rural Villages	SHLAA Reference CFS116	Size Category Medium	Net site area	Net yield 53	Land Use Type Greenfield				ab	
			No. of private							
Residual Land Value £2,986,807	per ha	_ _ (units 34		No. of affordable un 18	its			peterb	rett
Development Value										
Private Units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 0 12 13 9 34	Size sq.m 51 79 102 124	Total sq.m 0 971 1,357 <u>1,058</u> 3,386	£psm £3,513 £3,513 £3,513 £3,513	Total Value £0 £3,409,419 £4,768,871 £3,716,315	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 0 2 2 2 6	Size sq.m 51 79 102 124	0 172 241 <u>188</u> 602	£psm £2,108 £2,108 £2,108 £2,108	Total Value £0 £363,497 £508,435 £396,216	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 0 4 5 3 12	Size sq.m 51 79 102 124	0 350 490 <u>382</u> 1222	£psm £1,757 £1,757 £1,757 £1,757	Total Value £0 £615,007 £860,231 £670,366	
Gross Development Valu	е				53		5,209		£15,308,357	
Development Cost Site Acquisition Site Value						Purchaser Costs			£4,480,210 5.75%	
Residual Land Value									£4,737,822	
Build Costs Private units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 0 12 13 9 34	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £0 £935,576 £1,308,623 £1,019,792	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 0 2 2 2 6	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £0 £166,245 £232,532 £181,209	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 0 4 5 3 12	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £0 £337,527 £472,111 £367,909	
Externals					53	5209			23,021,324	
Plot external Remediation/Demolition Flood risk mitigation		Flood zone	É	Approx. % site effe	ected	15% £0 FALSE	as a percentage of bui		£753,228.63 £0	
Professional Fees									£753,229	
as percentage of construct	tion costs (build and externa	als)				10%			£577,475	
Contingency as percentage of construct	tion costs (build and externa	als)				5%	7		£251,076	7
		, 							£251,076	_
Developer contributions S.106 CIL						£1,000 £125	per unit per sq m		£52,500 £423,235 £475,735]
Sale cost Legals - Sales & Marketing cost -						£500 3.00%			£26,250 £459,251	
TOTAL DEVELOPMENT	COSTS								£485,501 £12,302,363	
Developers' Profit						Pata				
Private Housing Affordable Housing						Rate 17.50% 6%	of sales of sales		£2,081,556 £204,825 £2,286,381	<u> </u>
TOTAL PROJECT COSTS	S [EXCLUDING INTEREST]							£14,588,744	
TOTAL INCOME - TOTAL	. COSTS [EXCLUDING INT	[EREST]				APR 7.00%		PCM 0.565%	£719,613	
TOTAL PROJECT COSTS	S [INCLUDING INTEREST]	I							£15,308,357	
This appraisal has been p		ociates on behalf of the cl	ent. The appraisal ha ards January 2014) v	as been prepared raluation and sho	in line with the RICS valua	ation guidance. The purpuch.	pose of the appraisal is to in	inform the client on potentia	al overage generated from residentia	al development.

Typology Key Rural Villages	SHLAA Reference CFS104	Size Category Small	Net site area	Net yield 11	Land Use Type Greenfield					
ney itulal villages	010104	Oman			Creenneid					
Residual Land Value £3,073,143	per ha	r	No. of private units 7		No. of affordable un	its			peterb	ett
25,675,145	per na	L	· · · · · · · · · · · · · · · · · · ·			_				
Development Value										
Private Units	Flats Houses - 2 bed				No. of units	Size sq.m 51 79	Total sq.m 0	£psm £3,513	Total Value £0	7
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				3 3 2	102 124	207 290 <u>226</u>	£3,513 £3,513 £3,513	£727,343 £1,017,359 £792,814	‡
					7		722			_
Intermediate	Flats Houses - 2 bed				No. of units 0 0	Size sq.m 51 79	0 37	£psm £2,108 £2,108	Total Value £0 £77,546	7
	Houses - 3 bed Houses - 4+ bed				1 <u>0</u>	102 124	51 <u>40</u> 128	£2,108 £2,108	£108,466 £84,526	\exists
Affordable rent					1 No. of units	Size sq.m	128	£psm	Total Value	
7	Flats Houses - 2 bed				0	51 79	0 75	£1,757 £1,757	£0 £131,201	\exists
	Houses - 3 bed Houses - 4+ bed				1 <u>1</u> 3	102 124	104 <u>81</u> 261	£1,757 £1,757	£183,516 £143,011	Ⅎ
Gross Development Valu	ie.				11		1,111		£3,265,783	
Development Cost							1,111		20,200,100	
Site Acquisition										
Site Value						Purchaser Costs			£983,406 5.75%	_
						i dichaser costs				
Residual Land Value Build Costs									£1,039,952	
Private units	Flats				No. of units	Size sq.m	Cost per sq.m £1,134		Total Costs £0	\neg
	Houses - 2 bed Houses - 3 bed				3 3	79 102	£964 £964		£199,590 £279,173	∄
	Houses - 4+ bed				2 7	124	£964		£217,556	
Intermediate	Flats				No. of units	Size sq.m 60	Cost per sq.m £1,134		Total Costs £0	\neg
	Houses - 2 bed Houses - 3 bed				0	79 102	£964 £964		£35,466 £49,607	∃
	Houses - 4+ bed				0 1	124	£964		£38,658	→
Affordable rent	Flats				No. of units	Size sq.m	Cost per sq.m £1,134		Total Costs £0	⊐
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				1 1 1	79 102 124	£964 £964 £964		£72,006 £100,717 £78,487	‡
					3					_ _
Externals					11	1111			£1,071,258	
Plot external						15%	as a percentage of bu	uild costs	£160,688.77	\exists
Remediation/Demolition		Flood zone	,	Approx. % site eff	footod	£0	per ha		£0	_
Flood risk mitigation]	0	Ĺ	0%		FALSE	cost uplift as a percer	ntage of build costs	03	コ
Professional Fees									£160,689	
as percentage of construct	tion costs (build and externals)					10%			£123,195	⊐
Contingency									£123,195	
	tion costs (build and externals)					5%			£53,563	
									£53,563	
Developer contributions							<u></u>			<u></u>
S.106 CIL						£1,000 £125	per unit per sq m		£11,200 £90,290	∃
Sale cost									£101,490	
Legals -						£500			£5,600	\exists
Sales & Marketing cost -						3.00%			£97,973	コ
TOTAL DEVELOPMENT	2720								£103,573 £2,653,720	
Developers' Profit	C0313								£2,033,720	
Private Housing						Rate 17.50%	of sales		£444,065	\exists
Affordable Housing						6%	of sales		£43,696 £487,761	
TOTAL PROJECT COSTS	S [EXCLUDING INTEREST]								£3,141,482	
	COSTS [EXCLUDING INTER	EST]							£124,301	
Finance Costs						APR 7.00%		PCM 0.565%	-£124,301	_
						1.00%		0.30376	-£ 124,30 l	
TOTAL PROJECT COSTS	S [INCLUDING INTEREST]								£3,265,783	
This appraisal has been portion that the properties of the properties appraisal is not a form	repared by Peter Brett Associa nal 'Red Book' (RICS Valuatior	tes on behalf of the cl	ient. The appraisal ha dards January 2014) v	as been prepared valuation and sho	I in line with the RICS value ould not be relied upon as s	ation guidance. The purp such.	pose of the appraisal is to	inform the client on potenti	ial overage generated from residentia	l development.

Typology Key Rural Villages Strate	SHLAA Reference CFS173	Size Category Large	Net site area	Net yield 416	Land Use Type Greenfield				d	7
Residual Land Value £2,431,963	per ha		No. of private units 270		No. of affordable un	nits			peterbr	ett
Development Value Private Units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 54 43 105 68	Size sq.m 51 79 102 124	Total sq.m 2,758 3,418 10,757 8,382	£psm £3,513 £3,513 £3,513 £3,513	Total Value £9,689,135 £12,006,928 £37,787,627 £29,447,371	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				270 No. of units 10 8 19 1 <u>2</u> 48	Size sq.m 51 79 102 124	25,315 490 607 1,911 <u>1,489</u>	£psm £2,108 £2,108 £2,108 £2,108	Total Value £1,033,011 £1,280,123 £4,028,742 £3,139,543	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				48 No. of units 20 16 38 24 98	Size sq.m 51 79 102 124	995 1,233 3,881 3,024 9133	£psm £1,757 £1,757 £1,757 £1,757	Total Value £1,747,771 £2,165,865 £6,816,307 £5,311,853	
Gross Development Value Development Cost	e				416		38,946		£114,454,276	
Site Acquisition Site Value						Purchaser Costs			£25,292,416 5.75%	
Residual Land Value Build Costs									£26,746,730	
Private units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 54 43 105 68 270	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £3,679,603 £3,294,813 £10,369,278 £8,080,634	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 10 8 19 12 48	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £653,837 £585,463 £1,842,541 £1,435,866	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 20 16 38 24 98	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £1,327,488 £1,188,667 £3,740,916 £2,915,244	
Externals					416	39695			£39,114,350	
Plot external Remediation/Demolition Flood risk mitigation	1	Flood zone 0) (í	Approx. % site eff	ected	15% £0 FALSE	as a percentage of buil per ha cost uplift as a percenta		£5,867,153 £0 £0	
Professional Fees as percentage of constructi	ion costs (build and externals)					10%	7		£5,867,153 £4,498,150	
Contingency									£4,498,150	
	ion costs (build and externals)					5%			£1,955,718 £1,955,718	
Developer contributions S.106 CIL						£5,000 £125	per unit per sq m		£2,080,000 £3,225,196	
Sale cost Legals - Sales & Marketing cost -						£500 3.00%			£5,305,196 £208,000 £3,433,628	
TOTAL DEVELOPMENT O	COSTS								£3,641,628 £87,128,925	
Developers' Profit						Poto			, ,	
Private Housing Affordable Housing						Rate 17.50% 6%	of sales of sales		£15,562,936 £1,531,393 £17,094,329	
TOTAL PROJECT COSTS	[EXCLUDING INTEREST]								£104,223,253	
TOTAL INCOME - TOTAL	COSTS [EXCLUDING INTER	REST]				APR 7.00%		PCM 0.565%	£10,231,022	
TOTAL PROJECT COSTS	[INCLUDING INTEREST]						_		£114,454,276	
	epared by Peter Brett Associa nal 'Red Book' (RICS Valuation						ose of the appraisal is to in	nform the client on potent	tial overage generated from residential de	evelopment.

Typology Chelmsford Outer Fringe	SHLAA Reference CFS182	Size Category Large	Net site area	Net yield 840	Land Use Type Greenfield				do	
Residual Land Value £3,655,110	per ha]	No. of private units 546		No. of affordable ur 294	nits			peterbr	ett
Development Value					No. of units	Size sq.m	Total sq.m	£psm	Total Value	_
	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				109 87 213 137 546	51 79 102 124	5,569 6,901 21,720 <u>16,926</u> 51,117	£3,513 £3,513 £3,513 £3,513	£19,564,600 £24,244,759 £76,301,938 £59,461,038	
	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 19 16 38	Size sq.m 51 79 102 124	990 1,226 3,859 <u>3,008</u>	£psm £2,108 £2,108 £2,108 £2,108	Total Value £2,085,887 £2,584,864 £8,134,961 £6,339,461]
Affordable rent	Flats Houses - 2 bed				24 97 No. of units 39 32	Size sq.m 51 79	9083 2,009 2,490	£psm £1,757 £1,757	Total Value £3,529,153 £4,373,381	-
	Houses - 3 bed Houses - 4+ bed				77 <u>49</u> 197 840	102 124	7,836 6,106 18441 78,641	£1,757 £1,757	£13,763,696 £10,725,856	<u> </u>
Development Cost	-				040		70,041		2231,103,333	
Site Acquisition										
Site Value						Purchaser Costs			£76,757,310 5.75%]
Residual Land Value									£81,170,855	
Build Costs										
	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 109 87 213 137 546	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £7,429,968 £6,652,988 £20,937,964 £16,316,664	
	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 19 16 38 24	Size sq.m 60 79 102 124	Cost per sq.m £1,134 £964 £964 £964		Total Costs £1,320,248 £1,182,185 £3,720,515 £2,899,346]
Affordable rent	Flats Houses - 2 bed				97 No. of units 39 32	Size sq.m 60 79	Cost per sq.m £1,134 £964		Total Costs £2,680,504 £2,400,193	.]
	Houses - 3 bed Houses - 4+ bed				77 49 197	102 124 80153	£964 £964		£7,553,773 £5,886,550 £78,980,899	<u> </u>
Externals										
Plot external Remediation/Demolition		Florida		A	to and	15% £0	as a percentage of buil	ld costs	£11,847,134.88 £0]]
Flood risk mitigation		Flood zone 0	j [Approx. % site eff 0%	ected	FALSE	cost uplift as a percent	age of build costs	£0]
									£11,847,135	
Professional Fees	an and the state of a state of the					400/			00.000.000	T
as percentage of construction	on costs (build and externals))				10%			£9,082,803 £9,082,803	1
Contingency as percentage of construction	on costs (build and externals))				5%			£3,949,045	7
									£3,949,045	
Developer contributions S.106						£5,000	per unit		£4,200,000	T
CIL						£125	per sq m		£6,512,415	<u> </u>
Sale cost									£10,712,415	
Legals -						£500			£420,000	I
Sales & Marketing cost -						3.00%			£6,933,288 £7,353,288	1
TOTAL DEVELOPMENT C	COSTS								£203,096,441	
Developers' Profit									2200,000,441	
Private Housing Affordable Housing						Rate 17.50% 6%	of sales of sales		£31,425,159 £3,092,236]
									£34,517,394	
	[EXCLUDING INTEREST]								£237,613,835	
	COSTS [EXCLUDING INTER	REST]							-£6,504,240	
Finance Costs						APR 7.00%		PCM 0.565%	-£28,013,154	I
TOTAL PROJECT COSTS	[INCLUDING INTEREST]								£265,626,989	
	epared by Peter Brett Associa al 'Red Book' (RICS Valuation						ose of the appraisal is to ir	nform the client on potent	tial overage generated from residential	development.

Typology	SHLAA Reference	Size Category	Net site area	Net yield	Land Use Type					
Urban Area	CFS250	Small	0.3	21	Greenfield					
Residual Land Value			No. of private units		No. of affordable un	its			peterb	
£1,378,095	per ha] [14		7				petero	ell
Development Value										
Private Units					No. of units	Size sq.m	Total sq.m	£psm	Total Value	
	Flats Houses - 2 bed				14 0	51 79	690 0	£3,513 £3,513	£2,422,284 £0	∃
	Houses - 3 bed Houses - 4+ bed				0	102 124	0 <u>0</u>	£3,513 £3,513	£0 £0	<u> </u>
luta was dista					14	S:	690	Cmarr.	Total Value	
Intermediate	Flats Houses - 2 bed				No. of units 2 0	Size sq.m 51 79	123 0	£psm £2,108 £2,108	Total Value £258,253 £0	\exists
	Houses - 3 bed Houses - 4+ bed				0	102 124	0 <u>0</u>	£2,108 £2,108	£0 £0	‡
	1100000 41 000				<u>0</u> 2	12-7	1 <u>2</u> 3	22,100	20	→
Affordable rent	Flats				No. of units 5	Size sq.m 51	249	£psm £1,757	Total Value £436,943	コ
	Houses - 2 bed Houses - 3 bed				0	79 102	0	£1,757 £1,757	£0 £0	∃
	Houses - 4+ bed				<u>0</u> 5	124	<u>0</u> 249	£1,757	£0	_
Gross Development Valu	ie				21		1,061		£3,117,479	
Development Cost										
Site Acquisition										
Site Value									£440,990	
						Purchaser Costs			4.75%	
Residual Land Value									£461,937	
Build Costs					No of units	Sina an m	Coat non on m		Total Coata	
Private units	Flats Houses - 2 bed				No. of units 14 0	Size sq.m 60 79	Cost per sq.m £1,134 £964		Total Costs £919,901 £0	7
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				0	102 124	£964 £964		£0 £0	‡
	Tiouses - 47 bed				14	124	2304		LU	<u> </u>
Intermediate	Flats				No. of units	Size sq.m 60	Cost per sq.m £1,134		Total Costs £163,459	7
	Houses - 2 bed Houses - 3 bed				0 0	79 102	£964 £964		£0	7
	Houses - 4+ bed				0 2	124	£964		£0	⊐
Affordable rent	F				No. of units	Size sq.m	Cost per sq.m		Total Costs	_
	Flats Houses - 2 bed Houses - 3 bed				5 0 0	60 79 102	£1,134 £964 £964		£331,872 £0 £0	‡
	Houses - 4+ bed				0 0 5	124	£964 £964		£0	Ⅎ
					21	1248			£1,415,232	
Externals										
Plot external						15%	as a percentage of b	uild costs	£212,284.80	\neg
Remediation/Demolition						£0	per ha		£0	_
Flood risk mitigation		Flood zone 0	A	pprox. % site eff 0%	fected	FALSE	cost uplift as a perce	entage of build costs	£0	\exists
									£212,285	
Professional Fees										<u>_</u>
as percentage of construc	tion costs (build and externals))				10%			£162,752	
Contingency									£162,752	
as percentage of construc	tion costs (build and externals))				5%			£70,762	コ
									£70,762	
Developer contributions										
S.106 CIL						£1,000 £125	per unit per sq m		£20,800 £101,400	7
						-	·		£122,200	
Sale cost										<u> </u>
Legals -						£500 3.00%			£10,400	⊥ ¬
Sales & Marketing cost -						3.00%			£93,524 £103,924	
TOTAL DEVELOPMENT	COSTS								£2,549,092	
Developers' Profit									X=,0 10,002	
Private Housing						Rate 17.50%	of sales		£423,900	\neg
Affordable Housing						6%	of sales		£41,712	<u> </u>
									£465,611	
TOTAL PROJECT COST	S [EXCLUDING INTEREST]								£3,014,703	
TOTAL INCOME - TOTAL	COSTS [EXCLUDING INTER	REST]							£102,776	
Finance Costs						APR 7.00%		PCM 0.565%	-£102,776	\exists
							_			-
TOTAL PROJECT COST	S [INCLUDING INTEREST]								£3,117,479	
							pose of the appraisal is to	inform the client on potentia	al overage generated from residentia	l development.
i nis appraisal is not a forr	mal 'Red Book' (RICS Valuation	n – Protessional Stand	uards January 2014) v	aiuation and sho	ouid not be relied upon as s	sucn.				

Typology	SHLAA Reference	Size Category	Net site area	Net yield	Land Use Type					
Urban Area	CFS32	Medium	0.8	52	Brownfield					
Residual Land Value			No. of private units		No. of affordable un	its			peterb	COFF
£1,369,118	per ha		34		18				petero	ecc
Development Value										
Private Units	_				No. of units	Size sq.m	Total sq.m	£psm	Total Value	
	Flats Houses - 2 bed				34 0	51 79	1,724 0	£3,513 £3,513	£6,055,709 £0	
	Houses - 3 bed Houses - 4+ bed				0 0 34	102 124	0 <u>0</u>	£3,513 £3,513	£0 £0	
Intermediate					No. of units	Size sq.m	1,724	£psm	Total Value	
	Flats Houses - 2 bed				6	51 79	306 0	£2,108 £2,108	£645,632 £0	\exists
	Houses - 3 bed Houses - 4+ bed				0 <u>0</u>	102 124	0 <u>0</u>	£2,108 £2,108	£0 £0	\exists
					6		306	_		
Affordable rent	Flats Houses - 2 bed				No. of units 12 0	Size sq.m 51 79	622 0	£psm £1,757	Total Value £1,092,357 £0	\exists
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				0 <u>0</u>	102 124	0 <u>0</u>	£1,757 £1,757 £1,757	£0 £0	#
					12		622	21,707	20	
Gross Development Valu	le				52		2,652		£7,793,698	
Development Cost										
Site Acquisition Site Value									£1,095,294	_
Oile Value						Purchaser Costs			5.75%	
Residual Land Value Build Costs									£1,158,274	
Private units					No. of units	Size sq.m	Cost per sq.m		Total Costs	_
	Flats Houses - 2 bed				34 0	60 79	£1,134 £964		£2,299,752 £0	
	Houses - 3 bed Houses - 4+ bed				0	102 124	£964 £964		£0 £0	
Intermediate					34 No. of units	Size sq.m	Cost per sq.m		Total Costs	
intermediate	Flats Houses - 2 bed				6 0	60 79	£1,134 £964		£408,648 £0	7
	Houses - 3 bed Houses - 4+ bed				0	102 124	£964 £964		£0 £0	7
					6					-
Affordable rent	Flats				No. of units 12	Size sq.m	Cost per sq.m £1,134		Total Costs £829,680	\exists
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				0 0 0	79 102 124	£964 £964 £964		£0 £0 £0	=
	Houses - 4+ bed				12	124	1304		LU	
					52	3120			£3,538,080	
Externals										
Plot external						10%	as a percentage of bu	uild costs	£353,808.00	
Remediation/Demolition		Flood zone	A	Approx. % site ef	fected	£200,000	per ha		£160,000	<u> </u>
Flood risk mitigation		0		0%		FALSE	cost uplift as a perce	ntage of build costs	£0	
Professional Fees									£513,808	
as percentage of construct	tion costs (build and externals))				10%			£405,189	\exists
0									£405,189	
Contingency	tion costs (build and externals)					5%	\neg		£176,904	_
as percentage of construct	tion costs (build and externals,					370				
Developer contributions									£176,904	
S.106						£1,000	per unit		£52,000	\exists
CIL						£125	per sq m		£253,500	
Sale cost									£305,500	
Legals -						£500			£26,000	
Sales & Marketing cost -						3.00%			£233,811	
									£259,811	
Developers' Profit	COSTS								£6,357,566	
Drivete Henrica						Rate	-tl		04.050.740	
Private Housing Affordable Housing						17.50% 6%	of sales of sales		£1,059,749 £104,279	\exists
									£1,164,028	
TOTAL PROJECT COST	S [EXCLUDING INTEREST]								£7,521,594	
TOTAL INCOME - TOTAL	COSTS [EXCLUDING INTER	REST]							£272,104	
Finance Costs						APR 7.00%		PCM 0.565%	-£272,104	_
TOTAL PROJECT COSTS	S [INCLUDING INTEREST]								£7,793,698	
							pose of the appraisal is to	inform the client on potentia	al overage generated from residentia	al development.
i nis appraisal is not a forr	nal 'Red Book' (RICS Valuation	i – Professional Stand	aaros January 2014) v	aluation and sho	ouid not be relied upon as s	sucn.				

Typology	SHLAA Reference	Size Category	Net site area	Net yield	Land Use Type					
Urban Area	CFS266	Small	0.3	21	Brownfield					
Residual Land Value			No. of private units		No. of affordable un	its			peterb	COFF
£1,399,189	per ha		14		7				petero	ecc
Development Value										
Private Units	_				No. of units	Size sq.m	Total sq.m	£psm	Total Value	
	Flats Houses - 2 bed				14 0	51 79	690 0	£3,513 £3,513	£2,422,284 £0	
	Houses - 3 bed Houses - 4+ bed				0 0 14	102 124	0 <u>0</u> 690	£3,513 £3,513	£0 £0	
Intermediate					No. of units	Size sq.m	690	£psm	Total Value	
	Flats Houses - 2 bed				2 0	51 79	123 0	£2,108 £2,108	£258,253 £0	\exists
	Houses - 3 bed Houses - 4+ bed				0 <u>0</u> 2	102 124	0 <u>0</u>	£2,108 £2,108	£0	7
							123			-
Affordable rent	Flats				No. of units	Size sq.m	249	£psm £1,757	Total Value £436,943	\exists
	Houses - 2 bed Houses - 3 bed				0	79 102	0	£1,757 £1,757	£0 £0	=
	Houses - 4+ bed				<u>0</u> 5	124	<u>0</u> 249	£1,757	£0	
Gross Development Valu	ie				21		1,061		£3,117,479	
Development Cost										
Site Acquisition										
Site Value						Durah a a a O a ata			£447,741	
						Purchaser Costs			4.75%	
Residual Land Value									£469,008	
Build Costs Private units					No. of units	Size sq.m	Cost per sq.m		Total Costs	
Frivate units	Flats Houses - 2 bed				14 0	60 79	£1,134 £964		£919,901 £0	7
	Houses - 3 bed Houses - 4+ bed				0	102 124	£964 £964		£0 £0	‡
					14					
Intermediate	Flats				No. of units	Size sq.m 60	Cost per sq.m £1,134		Total Costs £163,459	\neg
	Houses - 2 bed Houses - 3 bed				0 0	79 102	£964 £964		£0 £0	
	Houses - 4+ bed				0 2	124	£964		£0	⊐
Affordable rent					No. of units	Size sq.m	Cost per sq.m		Total Costs	
	Flats Houses - 2 bed				5 0	60 79	£1,134 £964		£331,872 £0	
	Houses - 3 bed Houses - 4+ bed				0 0 5	102 124	£964 £964		£0	\exists
					21	1248			£1,415,232	
Externals						.=.0			2.,,202	
Plot external						10%	as a percentage of be	uild costs	£141,523.20	\neg
Remediation/Demolition						£200,000	per ha		£64,000	
Flood risk mitigation	[Flood zone 0	A	pprox. % site eft	fected	FALSE	cost uplift as a perce	ntage of build costs	£0	_ _
									£205,523	
Professional Fees										
as percentage of construct	tion costs (build and externals)					10%			£162,076	
Contingency									£162,076	
as percentage of construct	tion costs (build and externals)					5%			£70,762	
									£70,762	
Developer contributions										
S.106 CIL						£1,000 £125	per unit per sq m		£20,800 £101,400	7
									£122,200	
Sale cost										
Legals -						£500			£10,400	<u></u>
Sales & Marketing cost -						3.00%			£93,524	
TOTAL DEVELOPMENT	COSTS								£103,924 £2,548,725	
Developers' Profit	00010								22,340,123	
Private Housing						Rate 17.50%	of sales		£423,900	_
Affordable Housing						6%	of sales		£41,712	<u> </u>
									£465,611	
TOTAL PROJECT COSTS	S [EXCLUDING INTEREST]								£3,014,336	
TOTAL INCOME - TOTAL	. COSTS [EXCLUDING INTER	REST]							£103,143	
Finance Costs						APR 7.00%	_	PCM 0.565%	-£103,143	\neg
								2.22070	2.00,1.10	
TOTAL PROJECT COSTS	S [INCLUDING INTEREST]								£3,117,479	
This appraisal has been p	repared by Peter Brett Associa						pose of the appraisal is to	inform the client on potentia	al overage generated from residentia	al development.
	nal 'Red Book' (RICS Valuation						**	•		•

Typology Central Chelmsford	SHLAA Reference CFS278	Size Category Medium	Net site area	Net yield 60	Land Use Type Brownfield					
Central Chemisioru	CF 3270	Medidili	0.0	00	Biowillelu					
Residual Land Value			No. of private units		No. of affordable units	3			peterb	COFF
-£376,966	per ha	ı [39		21]			petero	ell
Development Value										
Private Units	_				No. of units	Size sq.m	Total sq.m	£psm	Total Value	
	Flats Houses - 2 bed				39 0	51 79	1,989 0	£3,513 £3,513	£6,987,357 £0	1
	Houses - 3 bed Houses - 4+ bed				0 0	102 124	0 <u>0</u>	£3,513 £3,513	£0 £0	
					39	0.1	1,989			
Intermediate	Flats Houses - 2 bed				No. of units 7 0	Size sq.m 51 79	353 0	£psm £2,108 £2,108	Total Value £744,960 £0	7
	Houses - 2 bed Houses - 3 bed Houses - 4+ bed				0	102 124	0	£2,108 £2,108 £2,108	£0 £0	7
	Houses - 4+ bed				<u>0</u> 7	124	<u>0</u> 353	22,100	LU	_
Affordable rent	Flats				No. of units 14	Size sq.m 51	718	£psm £1,757	Total Value £1,260,412	\neg
	Houses - 2 bed Houses - 3 bed				0 0	79 102	0 0	£1,757 £1,757	£0 £0	7
	Houses - 4+ bed				<u>0</u> 14	124	<u>0</u> 718	£1,757	£0	
Gross Development Valu	ie				60		3,060		£8,992,728	
Development Cost										
Site Acquisition										
Site Value									-£301,573	
						Purchaser Costs			1.75%	
Residual Land Value									-£306,850	
Build Costs										
Private units	Flats				No. of units 39	Size sq.m 60	Cost per sq.m £1,438		Total Costs £3,364,920	\Box
	Houses - 2 bed Houses - 3 bed				0	79 102	£964 £964		£0 £0	<u> </u>
	Houses - 4+ bed				0 39	124	£964		£0	
Intermediate	Flate				No. of units	Size sq.m	Cost per sq.m		Total Costs	
	Flats Houses - 2 bed Houses - 3 bed				7 0 0	60 79	£1,438 £964		£597,920 £0	‡
	Houses - 4+ bed				0 7	102 124	£964 £964		03 03	Ⅎ
Affordable rent					No. of units	Size sq.m	Cost per sq.m		Total Costs	
	Flats Houses - 2 bed				14 0	60 79	£1,438 £964		£1,213,960 £0	\exists
	Houses - 3 bed Houses - 4+ bed				0 0	102 124	£964 £964		£0 £0	7
					14					
Externals					60	3600			£5,176,800	
										_
Plot external						10%	as a percentage of b	uild costs	£517,680.00	<u> </u>
Remediation/Demolition Flood risk mitigation	,	Flood zone 3a	A	pprox. % site eff	ected	£200,000	per hacost uplift as a perce	entage of build costs	£160,000 £388,260	<u> </u>
1 lood fisk fillitigation	l	Ja	L	30 /8		1376	cost upint as a perce	intage of build costs	£1,065,940	
Professional Fees									21,003,340	
as percentage of construct	tion costs (build and externals)					10%			£624,274	\Box
0									£624,274	
Contingency	tion costs (build and externals)					5%	\neg		£258,840	_
as percentage of constituet	tion costs (build and externals)					370				
Developer contributions									£258,840	
S.106						£1,000	per unit		£60,000	\exists
CIL						£125	per sq m		£292,500	
Sale cost									£352,500	
Legals -						£500			£30,000	
Sales & Marketing cost -						3.00%			£269,782	\Box
									£299,782	
TOTAL DEVELOPMENT (Developers' Profit	COSTS								£7,471,286	
Developers From						Rate				
Private Housing Affordable Housing						17.50%	of sales of sales		£1,222,787 £120,322	\exists
							<u> </u>		£1,343,110	
TOTAL PROJECT COSTS	S [EXCLUDING INTEREST]								£8,814,395	
	. COSTS [EXCLUDING INTER	ESTI							£178,333	
Finance Costs	The same of the same in the	.				APR		PCM	20,500	
						7.00%		0.565%	-£178,333	\Box
	S [INCLUDING INTEREST]								£8,992,728	
	repared by Peter Brett Associa nal 'Red Book' (RICS Valuatior						ose of the appraisal is to	inform the client on potenti	al overage generated from residentia	al development.

Typology Central Chelmsford	SHLAA Reference CFS241	Size Category Small	Net site area	Net yield 51	Land Use Type Brownfield				ah	
			No. of private							U
Residual Land Value -£558,296	per ha	– (units 33		No. of affordable unit	es			peterb	rett
Development Value										
Private Units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 33 0 0 33 3	Size sq.m 51 79 102 124	Total sq.m 1,697 0 0 <u>0</u> 1,697	£psm £3,513 £3,513 £3,513 £3,513	Total Value £5,962,545 £0 £0 £0	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 6 0 0 0	Size sq.m 51 79 102 124	302 0 0 0	£psm £2,108 £2,108 £2,108 £2,108	Total Value £635,699 £0 £0 £0	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				6 No. of units 12 0 0 12 12	Size sq.m 51 79 102 124	302 612 0 0 0 612	£psm £1,757 £1,757 £1,757 £1,757	Total Value £1,075,551 £0 £0 £0	
Gross Development Valu	ıe				51		2611		£7,673,795	
Development Cost Site Acquisition Site Value									-£178,655	
						Purchaser Costs			1.75%	
Residual Land Value Build Costs									-£181,781	
Private units	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 33 0 0 0 33	Size sq.m 60 79 102 124	Cost per sq.m £1,438 £964 £964 £964		Total Costs £2,871,398 £0 £0 £0	
Intermediate	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 6 0 0 6	Size sq.m 60 79 102 124	Cost per sq.m £1,438 £964 £964 £964		Total Costs £510,225 £0 £0 £0 £0	
Affordable rent	Flats Houses - 2 bed Houses - 3 bed Houses - 4+ bed				No. of units 12 0 0 1 12 12	Size sq.m 60 79 102 124	Cost per sq.m £1,438 £964 £964 £964		Total Costs £1,035,912 £0 £0 £0	
Externals					51	3072			£4,417,536	
Plot external Remediation/Demolition Flood risk mitigation		Flood zone 3a	É	Approx. % site effo 50%	ected	10% £200,000 15%	as a percentage of buil		£441,753.60 £64,000 £331,315	
Professional Fees									£837,069	
as percentage of construc	tion costs (build and externa	als)				10%			£525,460 £525,460	
Contingency	tion costs (build and externa	nie)				5%			£220,877	
ao personiago er construo	tion cools (balla and externe	210)				070			£220,877	
Developer contributions S.106 CIL						£1,000 £125	per unit per sq m		£51,200 £249,600	
Sale cost						0500			£300,800	
Legals - Sales & Marketing cost -						£500 3.00%			£25,600 £230,214	
									£255,814	
TOTAL DEVELOPMENT Developers' Profit	COSTS								£6,375,775	
Private Housing Affordable Housing						Rate 17.50% 6%	of sales of sales		£1,043,445 £102,675 £1,146,120	
TOTAL PROJECT COST	S [EXCLUDING INTEREST]							£7,521,895	
	COSTS [EXCLUDING INT	EREST]							£151,900	
Finance Costs						APR 7.00%		PCM 0.565%	-£151,900	
This appraisal has been p	S [INCLUDING INTEREST] repared by Peter Brett Asso	ciates on behalf of the cl	ient. The appraisal ha	s been prepared	in line with the RICS valuat	tion guidance. The purp	pose of the appraisal is to ir	nform the client on potentia	£7,673,795	ial development.
This appraisal is not a forr	mal 'Red Book' (RICS Valua	tion - Professional Stand	lards January 2014) v	aluation and sho	uld not be relied upon as su	ıch.				