

Infrastructure Delivery Plan for South East King's Lynn Strategic Growth Area

October 2018

Mott MacDonald East Wing 69-75 Thorpe Road Norwich NR1 1UA United Kingdom

T +44 (0)1603 767530 F +44 (0)1603 619365 mottmac.com

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Mott MacDonald Limited. Registered in England and Wales no. 1243967. Registered office: Mott MacDonald House, 8-10 Sydenham Road, Croydon CR0 2EE, United Kingdom

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Introduction

1.1 The Infrastructure Delivery Plan

- 1.1.1 The Borough Council of King's Lynn and West Norfolk (BCKLWN) have appointed Mott MacDonald and Gerald Eve LLP to assist in the preparation and adoption of an Infrastructure Delivery Plan (IDP) for the South East King's Lynn Strategic Growth Area (SEKLSGA) (See Figure 1).
- 1.1.2 The IDP sets out the key strategic infrastructure that is required to support the housing objectives of the SEKLSGA and identifies where and at what time that infrastructure is required, who is responsible for delivering it, the predicted cost of provision and how these costs are expected to be funded. It is a 'living document' that will be periodically reviewed and modified to ensure that it remains up to date and addresses changing circumstances or includes new information that becomes available. Table 1 outlines the general chapter structure of this report
- 1.1.3 The IDP presents:
 - Information on the infrastructure required to support the delivery of development identified through the Core Strategy and subsequent Development Plan Documents and Neighbourhood Plans;
 - Evidence for developer contributions by indicating suitable infrastructure schemes to which contributions can be directed to make a development acceptable in planning terms;
 - An assessment of the viability of the notional development of the SEKLSGA in relation to the key infrastructure required and build costs of the infrastructure;
 - The assumed housing delivery phasing strategy found in Appendix B.
- 1.1.4 The IDP essentially acts as a high-level reference and guide, setting out the agreed principles, processes and delivery mechanisms that will be updated as and when planning applications are progressed, and further detail and phasing timings are advanced. It is recognised that documentation contained within the planning applications will contain information which will develop the evidence base for concluding the triggers for infrastructure provision and detailed nature of the infrastructure to be provided.
- 1.1.5 The purpose is to clearly outline those infrastructure elements that are needed to deliver the SEKLSGA that will be provided (or contributed to) by all relevant parties, or where relevant, by an individual party. It is based on the clear rationale, as outlined by the National Planning Policy Framework (NPPF), for planning contributions to be fair, reasonable, and proportional. On that basis, it is highlighted that the IDP is as detailed as it can be prior to the development of detailed designs for the infrastructure, as well as more information relating to the phasing of development within SEKLSGA. Table 1 outlines the general chapter structure of this report.
- 1.1.6 The IDP will be updated on a regular basis; this process includes consulting with the BCKLWN and parish councils, organisations such as public transport providers, emergency services, utility companies, business associations, the development industry, and other providers of services such as the highway authority, education and social services.

1.2 Structure of this Document

Table 1: Chapter Structure and Contents

1.	Introduction
2.	The South East King's Lynn Strategic Growth Area (SEKLSGA)
3	The Policy Position regarding the SEKLSGA
4.	Work to Date
5.	Delivery of the SEKLSGA
6.	Securing Development Infrastructure
	Appendices

1.3 Work Stages

1.3.1 This report is part of a wider instruction which has been broken down into Stages.

Stage 1a

1.3.2 Reviewed the infrastructure required, clarified the costs of the key infrastructure items, and build costs, developed an assumed housing delivery phasing strategy, and identified any cashflow funding issues that may influence the delivery of the SEKLSGA.

Stage 1b

1.3.3 The Gerald Eve report (Appendix B), providing an assessment of the viability of the notional development of the SEKLSGA using the information provided by Mott MacDonald.

Stage 2a

1.3.4 The provision of a IDP report by Mott MacDonald to which this Gerald Eve report is appended as a supporting document along with a series of other pieces of supporting documentation.

Stage 2b

Consultation with the various parties and stakeholders to agree an appropriate approach to delivery of the SEKLSGA and to document it in this report. It should be noted that this is a working document and will be revised and enlarged as more information and detail becomes available.

1.4 Relationship with the Planning Process

- 1.4.1 The IDP does not constitute draft heads of terms for a planning agreement. It is intended for use in the formation of draft heads of terms and negotiation of section 106 agreements for each parcel of land brought forward and the various planning applications therein. The IDP is intended to inform the decision-making process and consideration of planning applications. It will assist with the assessment of viability for each site coming forward as well as providing a route map against which individual planning applications can be measured in terms of how they will contribute to the comprehensive and timely development of the SEKLSGA.
- 1.4.2 The IDP does not include the costs of infrastructure items. Although assumptions on costs were concluded from the Indicative Viability Assessment (Appendix B) undertaken during Stage 1 of this work, these will require further refinement as more detail becomes available. The IDP has been informed by analysis of likely costs and viability appraisal work (Appendix B) . It is

proposed that detailed costs and the contributions sought will be discussed and agreed with BCKLWN through the planning applications.

2 The South East King's Lynn Strategic Growth Area

2.1 The Growth Area

- 2.1.1 The growth area (Figure 1) is located to the south-east of King's Lynn and includes parts of the parishes of West Winch and North Runcton. It is roughly bounded by the A10 to the west, the A47 to the east, and the Setchey to Blackborough End road to the south. It stretches around 3.5 km north-south and around 1.5 km east-west. The area fringes the village of West Winch and the main road (A10) north towards Hardwick roundabout and King's Lynn. It stretches towards, but stops short of, North Runcton Village.
- 2.1.2 Although predominantly agricultural land, the growth area encompasses several existing dwellings and other premises lying between the two villages. In the late 19th Century West Winch was a small, dispersed agricultural village, with the church, public house, school, and smithy on the main London Road (now the A10), while most of the houses were to the west, fronting the common. By the end of the 1940s there was little change, though sporadic development fronting the London Road had taken place, especially to the north of the village nearer to King's Lynn. By the 1980s, substantial ribbon development had taken place along the main road, and the village had been transformed by extensive estate type developments which were then continuing. By this time, King's Lynn had also greatly expanded, bringing the village closer to the town and its influence.
- 2.1.3 The growth area lies on the western end of a low ridge of land between the Nar and Gaywood valleys, and the Common fringes the Fens stretching beyond to the west.

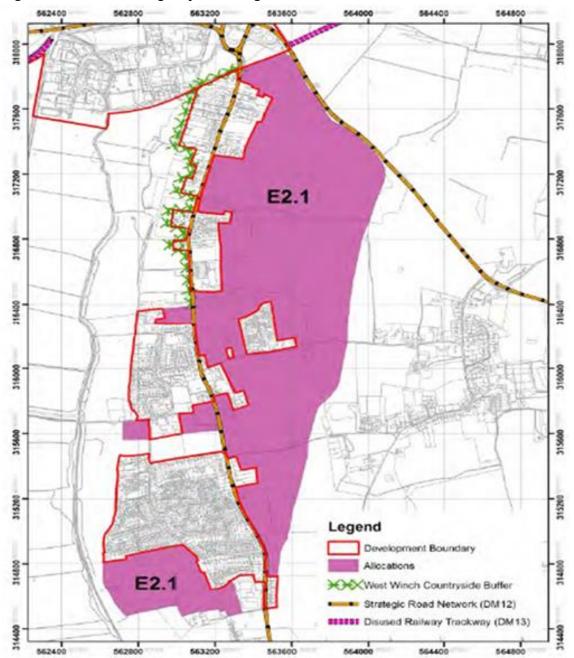


Figure 1: South East King's Lynn Strategic Growth Area

Source: Site Allocations and Development Management Policies Plan (SADMPP) 2016

3 The Policy Position regarding the SEKLSGA

3.1 National Planning Policy Framework

- 3.1.1 The National Planning Policy Framework (NPPF) (2012 revised 2018) sets out the Government's planning policies for England and how these are expected to be applied.
- 3.1.2 Annex 1 para 214 of the NPPF (2018) indicates that for Planning policy making, Authorities are currently able to rely upon the 2012 NPPF, although the NPPF was revised in July 2018 along with viability guidance in the National Planning Guidance (NPG 2018). This report including the indicative viability assessment at Appendix B, therefore remains consistent with the 2018 NPPF.
- 3.1.3 Para. 153 of the NPPF (2012) states that:
- 3.1.4 "Each local planning authority should produce a Local Plan for its area. This can be reviewed in whole or in part to respond flexibly to changing circumstances. Any additional development plan documents should only be used where clearly justified. Supplementary planning documents should be used where they can help applicants make successful applications or aid infrastructure delivery and should not be used to add unnecessarily to the financial burdens on development."
- 3.1.5 The NPPF (2012) places emphasis on using a proportionate evidence base when determining infrastructure requirements during local planning. Para. 162 of the NPPF (2012) states that:
- 3.1.6 *"Local planning authorities should work with other authorities and providers to:*
 - Assess the quality and capacity of infrastructure for transport, water supply, wastewater and its treatment, energy (including heat), telecommunications, utilities waste, health, social care, education, flood risk and coastal change management, and its ability to meet forecast demands; and
 - Take account of the need for strategic infrastructure including nationally significant infrastructure within their areas."
- 3.1.7 The NPPF (2012) establishes the presumption in favour of sustainable development. Specifically, paragraph 19 states that the planning system should do all that it can to promote sustainable economic growth to create jobs and prosperity and meet the challenges of global competition alongside a low carbon future. The NPPF states that significant weight should be placed on the need to support economic growth through the planning system.
- 3.1.8 Part 6 of the NPPF (2012) relates specifically to boosting the national supply of housing in order to meet local housing requirements. Paragraph 50 states that there should be provision of a wide choice of high quality homes, opportunities for home ownership should be widened and inclusive and mixed communities should be created through residential-led development proposals.
- 3.1.9 Section 7 of the NPPF (2012) states that the Government attaches great importance to the design of the built environment and that good design is a key aspect of sustainable development

3.2 Local Policy

3.2.1 The adopted Core Strategy designated South East King's Lynn as one of the strategic "urban expansion" areas around King's Lynn. The independent planning inspector who examined the

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Core Strategy explicitly stated that, compared to potential alternatives, the expansion areas identified were preferable to the alternatives in meeting the Borough's need for substantial numbers of additional dwellings over the plan period. It is relatively unconstrained by flood risk and infrastructure problems, and relatively easily accessed and serviced.

- 3.2.2 Policy CS09 of the Core Strategy, "Housing Distribution", provides for an allocation in this general area of at least 1,600 new homes, with supporting infrastructure. It also identifies this as establishing a direction for future growth beyond the plan period (i.e. beyond 2026). Work by the Prince's Foundation for the Built Environment (sponsored by a major landowner and undertaken with the active involvement of local people), together with sites and information put forward, suggests that a total of 3,000 to 3,500 additional dwellings could potentially be accommodated in the fullness of time, as indicated in figure 7 of the Core Strategy.
- 3.2.3 To achieve the strategic outcomes detailed in Policy E.1 of the Site Allocations and Development Management Policies Plan (SADMPP), Part B of Policy E.1 - paragraph b states that proposals for development will need to;

"Demonstrate through an Infrastructure Delivery Plan, to be agreed by the local planning authority, how the growth area's infrastructure can be delivered in a way which is proportionate to the scale and value of the development on the application site and showing how the various considerations and requirements (including those above) can be satisfactorily integrated and delivered across the site".

3.2.4 The IDP has been prepared to support the level of growth envisaged in the Council's adopted Core Strategy. The Core Strategy identified the Growth Area as a strategic allocation for the development of up to 3,500 houses and refers to the allocation of supporting infrastructure which is to be provided in tandem with housing development.

3.3 Neighbourhood Plan

- 3.3.1 The North Runcton and West Winch Neighbourhood Plan for the Period 2016-2026 was submitted by the Local Planning Authority (LPA) in November 2016. This document details a vision that aims to guide the development of the parishes until 2026 and beyond.
- 3.3.2 During the compilation of this document, a series of community consultations were undertaken to identify local needs and aspirations, whilst also allowing residents to comment on draft policies.
- 3.3.3 It is therefore deemed that this document should be held with high importance when planning infrastructure delivery in the Growth Area and as such has been considered when making the decisions outlined in this document.

3.4 Current Planning Applications

3.4.1 Planning application 13/01615/OM was submitted by Turley Associates on behalf of Hopkins Homes for development of up to 1,110 residential units (class C3); primary school (class D1); local centre (class A1, B1, D1, D2); public open space, landscaping, and highway access onto both the A47 and A10.

3.5 National Planning Guidance (NPG)

3.5.1 Whilst the SADMPP is an additional document to BCKLWN's Development Framework, it is anticipated to deliver a significant proportion of the housing trajectory for the Authority. As a result we have had regard to National Planning Guidance (NPG) (published 6 March 2014 and updated 24 July 2018) which refers to viability and states,

- 3.5.2 *"Plans should set out the contributions expected from development. This should include setting out the levels and types of affordable housing provision required, along with other infrastructure (such as that needed for education, health, transport, flood and water management, green and digital infrastructure)."*
- 3.5.3 "These policy requirements should be informed by evidence of infrastructure and affordable housing need, and a proportionate assessment of viability that takes into account all relevant policies, and local and national standards, including the cost implications of the Community Infrastructure Levy (CIL) and section 106. Policy requirements should be clear so that they can be accurately accounted for in the price paid for land. To provide this certainty, affordable housing requirements should be expressed as a single figure rather than a range. Different requirements may be set for different types of site or types of development."

(Paragraph: 001 Reference ID: 10-001-20180724)

- 3.5.4 "The role for viability assessment is primarily at the plan making stage. Viability assessment should not compromise sustainable development but should be used to ensure that policies are realistic, and that the total cumulative cost of all relevant policies will not undermine deliverability of the plan."
- 3.5.5 *"It is the responsibility of plan makers in collaboration with the local community, developers and other stakeholders, to create realistic, deliverable policies. Drafting of plan policies should be iterative and informed by engagement with developers, landowners, and infrastructure and affordable housing providers."*

(Paragraph: 002 Reference ID: 10-002-20180724)

3.5.6 "It is important to consider the specific circumstances of strategic sites. Plan makers can undertake site specific viability assessment for sites that are critical to delivering the strategic priorities of the plan. This could include, for example, large sites, sites that provide a significant proportion of planned supply, sites that enable or unlock other development sites or sites within priority regeneration areas. Information from other evidence informing the plan (such as Strategic Housing Land Availability Assessments) can help inform viability assessment for strategic sites."

(Paragraph: 005 Reference ID: 10-005-20180724)

3.5.7 "In plan making and decision making viability helps to strike a balance between the aspirations of developers and landowners, in terms of returns against risk, and the aims of the planning system to secure maximum benefits in the public interest through the granting of planning permission."

(Paragraph: 010 Reference ID: 10-010-20180724)

3.5.8 "For viability assessment of a specific site or development, market evidence (rather than average figures) from the actual site or from existing developments can be used. Any market evidence used should be adjusted to take into account variations in use, form, scale, location, rents and yields, disregarding outliers. Under no circumstances will the price paid for land be a relevant justification for failing to accord with relevant policies in the plan."

Paragraph: 011 Reference ID: 10-011-20180724)

3.5.9 This report therefore considers assessment of the SEKLSGA, as a hybrid between area wide assessment and site-specific assessment, due to the nature of unknowns, detail and length of

time involved in delivery. Furthermore, it also has regard to the impact of forecasting and sensitivity testing to consider the potential of the SEKLSGA for viable development.

3.6 The RICS Guidance Note: Financial Viability in Planning (GN94/2012)

- 3.6.1 In assessing financial viability, this report has considered the RICS Guidance Note on Financial Viability in Planning.
- 3.6.2 GN94/2012 (first edition) was published in August 2012 and its purpose is to enable all participants in the planning process to have a more objective and transparent basis for understanding and evaluating financial viability in a planning context. It provides practitioners with advice on undertaking and assessing viability appraisals for planning purposes.
- 3.6.3 GN94/2012 defines the following:
 - financial viability for planning purposes;
 - separates the key functions of development, being land delivery and viable development (in accordance, and consistent, with the NPPF (2012 revised 2018));
 - highlights the residual appraisal methodology;
 - defines Site Value for both scheme-specific and area-wide testing in a market rather than hypothetical context;
 - what to include in viability assessments; terminology and suggested protocols; and the uses
 of Financial Viability Assessments ("FVA") in planning.
- 3.6.4 It provides all those involved in financial viability in planning and related matters with an objective method, framework and set of principles that can be applied for both plan making and development management.
- 3.6.5 GN94/2012 is grounded in the statutory and regulatory planning regime that currently operates in the UK. It is relevant and consistent with the Localism Act 2011, the NPPF (2012 revised 2018) and the Community Infrastructure Levy Regulations 2010.
- 3.6.6 Financial viability for planning purposes is defined as follows:

"An objective financial viability test of the ability of a development project to meet its costs including the cost of planning obligations, whilst ensuring an appropriate site value for the landowner and a market risk adjusted return to the developer in delivering that project."

3.7 Borough Council of King's Lynn and West Norfolk Affordable Housing Policy

- 3.7.1 Policy CS09 of the Council's "Affordable Housing Policy" April 2011 document sets out that:
- 3.7.2 "The overall target for affordable housing in the borough during the plan period will be related to the ability to deliver in the market conditions that prevail at the time a planning application is made. At the present time, the percentage which will be sought for affordable housing provision on qualifying sites is:
 - 15% within the built-up area of King's Lynn
 - 20% in all other areas.
- 3.7.3 It should be noted the SEKLSGA falls within the area where 20% affordable housing is required.
- 3.7.4 In terms of tenure split, Section 6.6 of the Council's "Affordable Housing Policy" April 2011 document also sets out that:

3.7.5 "The tenure split of affordable housing sought as a requirement of S.106 agreements will be 70:30 rent to shared ownership. The need for rented to shared ownership in this proportion has been established through research evidenced in the Strategic Housing Market Assessment."

3.8 Community Infrastructure Levy (CIL)

3.8.1 In terms of Community Infrastructure Levy (CIL), the Council's CIL charging schedule sets out that the South East King's Lynn Strategic Growth Area has a zero £ per m² rating, so that no CIL is chargeable on the proposed development of the SEKLSGA site.

3.9 Section 106 Costs

- 3.9.1 The IDP highlights the various documents from which the required infrastructure and Section 106 costs have been identified. These include:
 - Core Strategy: Policy CS09
 - Hardwick Transport Strategy
 - SADMPP: Policy E.1
 - Neighbourhood Plan: North Runcton and West Winch
 - Planning application 13/01615/OM
 - Norfolk County Council Norfolk Schools.

3.10 Infrastructure Identified for Delivery and Trigger Points

Required Infrastructure

3.10.1 For the purposes of this document, the definition of the key infrastructure groups, and the types of facilities and services within each group required to develop the SEKLSGA, are broadly summarised below:

Transport

- Trunk roads
- Local roads and streets
- Lanes and home roads
- Cycle and shared use pathways.

Education

- Primary schools
- High school provision
- Sixth form capacity increase.

Utilities

- Electricity
- Gas
- Telecommunications
- Mains water distribution
- Sewerage and drainage.

Community

- Indoor recreation and sports facilities
- Fire Service requirements
- Community meeting space
- Allowances for expansion to West Winch Church Graveyard
- Libraries.

Green Infrastructure

- Outdoor sports facilities
- Play areas
- Green space and corridors
- Habitat creation
- Allotments.

It should be noted that this is a working document and this list will be revised and enlarged as more information and detail becomes available.

Section 106 Requirements and Trigger Points

3.10.2 There are trigger points that require the delivery of key infrastructure to support the development of the SEKLSGA. These are detailed in Table 2.

Infrastructure Theme	Item	Trigger Point for Delivery
Access and Transport	Minor Improvement to Hardwick for A10 Arm	To be delivered by 2020 or by the construction of 400 dwellings.
	A10 West Winch Bypass - Phase 1	To be delivered by 2020 or by the construction of 400 dwellings.
	A10 West Winch Bypass - Phase 2	To be delivered by 2026 or by the construction of 1,600 dwellings.
	A47 east of Hardwick dualling	To be delivered by 2026 or by the construction of 1,600 dwellings.
	Hardwick interchange local widening within junction	To be delivered by 2026 or by the construction of 1,600 dwellings.
	A47 retained but expanded	To be delivered by 2026 or by the construction of 1,600 dwellings.
	Traffic calming through West Winch Village	To be delivered within 12 months of development commencing.
	Bus Strategy	Bus service improvements are based on business case and therefore details and delivery of these are to be identified and agreed at a later date.
Education	West Winch Primary School capacity increase	£100,000 to be paid on commencement of the development. A further £1,000,000 to be paid on occupation of 100 new dwellings (6 months

Table 2: Trigger Points for Required Infrastructure

Section 106 Infrast	ructure	
		post commencement). The balance is to be paid on the occupation of 500 new dwellings across the overall IDP area (30 months post commencement)
	420 place primary school	2ha School site is to be purchased on commencement of the development and transferred to a fully serviced school site after the occupation of the 100th dwelling.
	315 place primary school	2ha School site to be purchased 3 years prior to the point where 2,000 units are estimated t be occupied (i.e. 84 months post commencement). The school is to be completed by the point when 2,000 units are occupied across the wider IDP area and cost apportioned across the previous 3 years.
	Nursery provision	To be delivered as part of the primary schools
	High school capacity increase	To be paid in four equal instalments on occupation of 400 dwellings of each respectiv phase.
	Sixth form capacity increase	To be paid in four equal instalments on occupation of 400 dwellings of each respective phase.
Green Infrastructure	Neighbourhood parks, allotments and open spaces with equipped sports and play facilities	Contributions are to be apportioned and phased across the whole IDP area on a basis of cost per residential unit delivered. To be delivered in accordance with phasing plan to be agreed prior to development.
Community Facilities	Community centre 1	Contributions are to be apportioned and phased across the whole IDP area on a basis of cost per residential unit delivered. To be delivered in accordance with phasing plan to be agreed prior to development.
	Community centre 2	Contributions are to be apportioned and phased across the whole IDP area on a basis of cost per residential unit delivered. To be delivered in accordance with phasing plan to be agreed prior to development.
	Community centre 3	Contributions are to be apportioned and phased across the whole IDP area on a basis of cost per residential unit delivered. To be delivered in accordance with phasing plan to be agreed prior to development.
	Sports centre	Contributions are to be apportioned and phased across the whole IDP area on a basis of cost per residential unit delivered. To be delivered in accordance with phasing plan to be agreed prior to development.
	1no. Multi Use Games Area (MUGA) facility	Contributions are to be apportioned and phased across the whole IDP area on a basis of cost per residential unit delivered. To be delivered in accordance with phasing plan to be agreed prior to development.
	Health centre	Land is to be safeguarded for this, however, a need for a new health centre within the growt area is to be assessed at a later stage.
	3no. shops	Land is to be safeguarded for this.
	Library contributions	Contributions taken per dwelling and any upgrades are to be delivered as required, in

Section 106 Infrastructure

		accordance with phasing plan which is to be agreed prior to construction.	
Utilities	Fire hydrants	One hydrant to be provided for every 50 dwellings, every school and neighbourhood centre.	
	SuDS infrastructure	In accordance with agreed phasing plan prior to the commencement of development.	

Source: SADMPP, BCKLWN Core Strategy, Neighbourhood Plan, and Norfolk County Council

4 Work to Date

4.1 Background

- 4.1.1 A document review was undertaken to aid a full understanding of the extent of work that had been previously carried out with regards to infrastructure planning in the local area and the future requirements for the Growth Area. The review of planning information has been summarised in Section 3 above. This was supplemented by consultation with the following organisations:
 - Norfolk County Council on:
 - Education
 - Public transport
 - Flood risk and drainage
 - A47 Alliance
 - Norfolk Community Health and Care NHS Trust
 - UK Power Networks
 - National Grid
 - Anglian Water
 - Internal Drainage Board
 - BCKLWN Parks and Open Spaces Team
 - Proposed developers
 - Mott MacDonald cost intelligence team and Black Book authors
 - Mott MacDonald Hardwick Transport Strategy Report

4.2 Strategic Infrastructure Costs

- 4.2.1 The following tables outline potential costs for the provision of infrastructure required to develop the SEKLSGA.
- 4.2.2 There are two sets of costs that have contributed to the Indicative Viability Assessment one set has been based on the proposed 3,500 homes (Appendix C1). Another set of costs has been developed based on slightly increased density scenarios across the site of 3,988 homes (Appendix C2), This scenario is tested in the attached Indicative Viability Assessment (Appendix B) demonstrates.
- 4.2.3 All cost data has been uplifted to a common base date of 3Q2018 using the BCIS All-in-Tender Price Index to arrive at current prices. This process enables a comparison of past projects by bringing their costs in line with current levels of inflation and subsequently allowing a like-for-like comparison to be made between past projects that have varying completion dates. As an example, projects completed 5 years ago will likely be cheaper than similar projects in the present-day due to ongoing inflation movements in labour, plant, and materials.
- 4.2.4 Cost data has been sourced from a combination of in-house project data and professional opinion based on experience. Mott MacDonald hold vast amounts of cost data on infrastructure projects both past and present due to the ongoing workload with relevant organisations in the infrastructure industry. Alongside this, a number of professionals within Mott MacDonald were contacted to gain their professional opinion; namely Highways and Infrastructure Estimators /

Quantity Surveyors with many years' experience in their field. The Cost Analysis Spreadsheets can be found in Appendix C. It should be noted that there is no change in these costs for either 3,500 or 3,988 homes apart from predicted education costs.

- 4.2.5 As a result of the length of the development programme for the SEKLSGA it is appropriate to assume growth in costs and values across the development period. For this reason the growth rates set out in Figure 9a of the Indicative Viability Assessment (Appendix B) have been adopted.
- 4.2.6 In order to ensure the robustness of construction cost forecast growth assumptions, figures have been used derived from an average of a range of latest forecasts from established market commentators. All costs have been derived from third quarter 2018 values (Q32018).

Table 3: Recalculated Infrastructure Costs for Hardwick Transport Strategy (Costs rounded to nearest £)

Infrastructure costs for 3500 homes	Recalculated 2018 Cost £	Developer Contribution £
Minor improvement to Hardwick for A10 arm	547,301.00	547,301.00
A10 West Winch Bypass – Phase 1	901,323.00	901,323.00
A10 West Winch Bypass – Phase 2	6,566,295.00	6,566,295.00
A47 east of Hardwick dualling	2,189,207.00	2,189,207.00
Hardwick Interchange local widening within junction	1,469,934.00	1,469,934.00
A47 roundabout retained but expanded	1,312,463.00	1,312,463.00
A47 flyover dualled	8,934,975.00	0
A149 dualled	2,407,066.00	0
Traffic calming through West Winch Village (nominal sum)	538,194.00	538,194.00
Total Cost	24,866,762.00	13,524,720.00
	£Q 2018	
Infrastructure costs for 3988 homes	Recalculated 2018 Cost £	Developer
	00312	Contribution £
Minor improvement to Hardwick for A10 arm	547,301.00	547,301.00
Minor improvement to Hardwick for A10 arm A10 West Winch Bypass – Phase 1		
	547,301.00	547,301.00
A10 West Winch Bypass – Phase 1	547,301.00 901,323.00	547,301.00 901,323.00
A10 West Winch Bypass – Phase 1 A10 West Winch Bypass – Phase 2	547,301.00 901,323.00 6,566,295.00	547,301.00 901,323.00 6,566,295.00
A10 West Winch Bypass – Phase 1 A10 West Winch Bypass – Phase 2 A47 east of Hardwick dualling	547,301.00 901,323.00 6,566,295.00 2,189,207.00	547,301.00 901,323.00 6,566,295.00 2,189,207.00
A10 West Winch Bypass – Phase 1 A10 West Winch Bypass – Phase 2 A47 east of Hardwick dualling Hardwick Interchange local widening within junction	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00
A10 West Winch Bypass – Phase 1 A10 West Winch Bypass – Phase 2 A47 east of Hardwick dualling Hardwick Interchange local widening within junction A47 roundabout retained but expanded	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00 1,312,463.00	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00 1,312,463.00
A10 West Winch Bypass – Phase 1 A10 West Winch Bypass – Phase 2 A47 east of Hardwick dualling Hardwick Interchange local widening within junction A47 roundabout retained but expanded A47 flyover dualled	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00 1,312,463.00 8,934,975.00	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00 1,312,463.00 0
A10 West Winch Bypass – Phase 1 A10 West Winch Bypass – Phase 2 A47 east of Hardwick dualling Hardwick Interchange local widening within junction A47 roundabout retained but expanded A47 flyover dualled A149 dualled	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00 1,312,463.00 8,934,975.00 2,407,066.83	547,301.00 901,323.00 6,566,295.00 2,189,207.00 1,469,934.00 1,312,463.00 0 0

Source: Appendix C – Cost Analysis Reports

Public Transport

4.2.7 The requirement for financial contributions to make improvements to the local bus service is given in SADMPP section E.2.60. However, at present, this figure could not be ascertained as any improvements would be based on a viable business case proposed by the relevant bus service provider.

4.2.8 Development within the Growth Area can support a business case for such improvements and mitigate the size of any financial contribution sought for their delivery by providing layouts that facilitate bus access and maximise the catchment area for bus services.

Education

4.2.9 The education contribution requirements to make the development acceptable from the view of Norfolk County Council (NCC) are detailed in the document "Potential County Council Infrastructure Requirements – Proposed Housing Development – West Winch Growth Area (3500 Dwellings)" Appendix D. These requirements and their potential associated costs are shown in Table 4.

Table 4: Education Contribution Requirements

Item costs for 3,500 homes	Contribution Amount £
West Winch Primary School capacity increase	£2,084,276
420 place primary school	£6,900,000
315 place primary school	£5,150,000
High school capacity increase	£10,632,876
Sixth form capacity increase	£1,141,740
Total	£25,908,892
Item costs for 3,988 homes	Contribution Amount £
West Winch Primary School capacity increase	2,445,240
420 place primary school 1	6,900,000
420 place primary school 2	6,900,000
High school capacity increase	11,229,440
Sixth form capacity increase	1,198,827
Total	28,673,507

Source: Appendix C – Cost Analysis Reports

4.2.10 Further to the requirements outlined in Table 4, the "Potential County Council Infrastructure Requirements – Proposed Housing Development – West Winch Growth Area (3500 Dwellings)" document also states that:

> " From September 2017, additional places will be needed due to the introduction of 30 Hours Free Entitlement for eligible families. These places will need planning for now, so nursery provision is being sought in this instance".

- 4.2.11 For the purposes of this IDP, this nursery provision is assumed to be part of the Primary School provision and therefore no cost has been included for this.
- 4.2.12 High school capacity increase costs will require further discussion as these are potentially 'theoretical' and not tied to planned projects (CIL vs S 106); however at present it is prudent to include these in the costs schedule.

Green Infrastructure

4.2.13 The green infrastructure requirements are outlined in the SADMPP Policy E2.1 – Part A – Paragraph 13 which states that the following is required:

"Significant 'green infrastructure', including (separately and/or combination, as appropriate)

- Landscape planting to integrate the development within the local landscape, character and provide visual amenity within the growth area;
- Recreational open space of at least 9 hectares;
- Conservation and enhancement of local biodiversity;
- Measures to mitigate potential adverse recreational impacts on designated nature conservation sites (SPAs, SACs, Ramsar) outside the growth area"
- 4.2.14 The green infrastructure allowances for the Growth Area outlined in Table 5 have been included in the cost analysis. There is no change in costs for either 3,500 or 3,988 homes.

Item costs for 3,500 homes	Land Allowance	Cost £
Formal recreation facilities such as playing fields	10ha	5.185.467.00
Play areas	6ha	12,786,084.00
Allotments	0.6ha	104,774.00
Other green spaces	4ha	355,169.00
Natural and semi-natural green spaces Inc. footpath links and hedgerows (i.e. landscape buffers)	28ha	1,988,946.00
Interim habitat mitigation payment	-	200,641.00
Maintenance costs formal recreation facilities such as playing fields	10ha	1,391,446.00
Maintenance costs play areas	4ha	4,350,589.00
Maintenance costs allotments	0.6ha	20,407.00
Maintenance costs green spaces	4ha	636,973.00
Maintenance costs natural and semi natural greenspace	28ha	995,656.00
Total		28,016,156.00
Item costs for 3,988 homes	Land Allowance	Cost £
Formal recreation facilities such as playing fields	10ha	5.185.467.00
Play areas	6ha	12,786,084.00
Allotments	0.6ha	104,774.00
Other green spaces	4ha	355,169.00
Natural and semi-natural green spaces Inc. footpath links and hedgerows (i.e. landscape buffers)	28ha	1,988,946.00
Interim habitat mitigation payment	-	200,641.00
Maintenance costs formal recreation facilities such as playing fields	10ha	1,391,446.00
Maintenance costs play areas	6ha	4,350,589.00
Maintenance costs allotments	0.6ha	20,407.00
Maintenance costs green spaces	4ha	636,973.00
Maintenance costs natural and semi natural greenspace	28ha	995,656.00
Total	-	28,016,156.00

Table 5: Green Infrastructure Allowances

Source: Appendix C – Cost Analysis Reports

4.2.15 The allowances outlined in Table 5 have been taken pro rata from a previous scheme that Mott MacDonald has undertaken, where the costs were available that related to green infrastructure. Projections of these costs are problematic as they vary considerably and from year to year and are highly dependent on the nature and type of open space required. However, the exception is for the interim habitat mitigation payment costs, which are given in the SADMPP DM16.

Community Facilities

4.2.16 The community facilities required due to the development have been ascertained from the requirements outlined in Policy E2.1 of the SADMPP and are outlined in Table 6. They include both land and physical build costs. The requirement for sports facilities stems from the need for "active" recreation facilities. Policy GA03 (NP) states that:

"10 Ha of new active recreation facilities should be provided (which could include sports pitches, courts, MUGA facilities, children's play areas or trim trails within the new Neighbourhood Plan area".

This also accounts for the statement on the Hopkins Homes application from Sport England. However, the scope and nature of new sports facilities will ultimately be decided by BCKLWN in consultation with developers.

Item costs for 3,500 homes	Land Take	Cost £
Community centre 1	1000 m ²	2,447,133.00
Community centre 2	500 m ²	1,223,566.00
Community centre 3	500 m ²	1,223,566.00
Sports centre	1500 m ²	3,105,575.00
1no. MUGA facility	782 m ²	203,299.00
Health centre	-	-
3no. shops	280 m ² each	-
NLIS library contributions	-	979,128.00
Total	-	9,182,270.00
Item costs for 3,988 homes	Land Take	Cost £
Community centre 1	1000 m ²	2,447,133.00
Community centre 2	500 m ²	1,223,566.00
Community centre 3	500 m ²	1,223,566.00
Sports centre	1500 m ²	3,105,575.00
1no. MUGA facility	782 m ²	203,299.00
Health centre	-	-
3no. shops	280 m ² each	-
NLIS library contributions	-	979,128.00
Total		9,182,270.00

Table 6: Community Facilities Allowances

Source: Appendix C – Cost Analysis Reports

4.2.17 The land take associated with each of the items shown in Table 6 are conservative estimates, with the health centre assumed to be part of the larger community centre and the NLIS contributions coming directly from Council requirements.

Utilities

4.2.18 The SADMPP Policy E2.1 states the following as a requirement for the Growth Area;

"Incorporation of Sustainable Drainage Systems to address surface water run-off, flood risk, biodiversity and the avoidance of groundwater pollution"

- 4.2.19 To outline the existing drainage conditions and to ascertain the level and type of SuDS required because of the Growth Area at a high level, the Middle Level Commissioners for the East of Ouse, Polver and Nar Internal Drainage Board prepared the North Runcton & West Winch Surface Water Management Strategy in April 2014. Using the data from this in combination with Environmental Agency Report SC080039/R9 (March 2015) the costs associated with site drainage and the required strategic SuDS infrastructure have been ascertained.
- 4.2.20 The requirement for fire hydrants contributions has been detailed in the "Potential County Council Infrastructure Requirements Proposed Housing Development West Winch Growth Area (3500 Dwellings)" document and this has been included in the costs shown in Table 7.

Table 7: Utilities Requirements (Section 106 costs)

Item costs for 3,500 homes	Cost £
Fire hydrants contributions	70,167.00
Detention basins – capital cost (78317.4m ³ storage allowance)	6,359,864.00
Detention basins - maintenance	349,980.00
Total	6,780,012.00
Item costs for 3,988 homes	Cost £
Fire hydrants contributions	70,167.00
Detention basins – capital cost (78317.4m ³ storage allowance)	6,359,864.00
Detention basins - maintenance	349,980.00
Total	6,780,012.00
Courses Assessed a Cost Assesses Descerts	

Source: Appendix C – Cost Analysis Reports

4.2.21 The requirements shown for detention basins in Table 8 are taken at a very high level and as such, detailed analysis will have to take place to determine exact site conditions.

4.3 Neighbourhood Plan Requirements

Access and Transport

4.3.1 The Neighbourhood Plan has raised several additional requirements with regards to planning and transport, these are shown in Table 8. There is no change in costs for either 3,500 or 3,988 homes.

Table 8: Neighbourhood Plan Additional Access and Transport Requirements

Item costs for 3,500 homes	Cost £
Redevelopment of A10 between Chapel Lane and Long Lane	-
Provision for future dual use path connection to Bawsey Country Park	-
Dual use path connection to the village of Middleton	519,552.00
Safe cycle and pedestrian crossing at Rectory Lane	103,412.00
Safe cycle and pedestrian crossing at Chequers Lane	103,412.00
Total	726,378.00
Item costs for 3,988 homes	Cost £
Redevelopment of A10 between Chapel Lane and Long Lane	-
Provision for future dual use path connection to Bawsey Country Park	-
Dual use path connection to the village of Middleton	519,552.00
Safe cycle and pedestrian crossing at Rectory Lane	103,412.00

Item costs for 3,500 homes	Cost £
Safe cycle and pedestrian crossing at Chequers Lane	103,412.00
Total	726,378.00
Source: Appendix C – Cost Analysis Report	

- 4.3.2 It has been assumed that the redevelopment of the A10 between Long Lane and Chapel Lane will be included in the allowances for traffic calming listed in Table 3, with any other upgrades along this stretch not being directly related to the development.
- 4.3.3 The provision for a future dual use path to Bawsey Country Park is presumed to be an allowance for a tie-in point into the footpath network, and thus no cost has been associated with this is this can be facilitated with relative ease.
- 4.3.4 A dual use path to the village of Middleton has been allowed for in the cost plan, however this may not in its entirety be related to the development and as such it may be determined that the full costs for this item may not need to be covered by the development.
- 4.3.5 Safe cycle and pedestrian crossings at both Chequers Lane and Rectory Lane have been costed as Toucan Crossings, which would allow for the footway networks created by the development to be linked up over these roads.

Education

4.3.6 There were no additional education requirements raised in the Neighbourhood Plan.

Green Infrastructure

4.3.7 The Neighbourhood Plan has requested a 5ha fenced off nature reserve to be allocated as part of the development. No cost has been associated with this and it has been assumed that land take will be the only factor required.

Community Facilities

4.3.8 An allowance for the expansion to West Winch Church Graveyard has also been requested by the Neighbourhood Plan. This has been factored in and an allowance for the safeguarding of land has been made.

4.4 Other Required Infrastructure

Access and Transport

4.4.1 To allow for the development to function the additional access and transport requirements shown in Table 9 will be required. These have been derived from the masterplan layouts drawn up by potential developers. These will constitute costs to the developer. They have been included as part of the Indicative Viability Assessment but are not included as part of the Section 106 requirement.

Table 9: Additional Access and Transport Requirements

Item costs for 3,500 homes	Cost £
Neighbourhood streets – Site Masterplan	16,284,968.00
Village centre streets – Site Masterplan	2,175,525.00
Lanes and home roads – Site Masterplan	28,377,603.00
East to West road – Hopkins Homes	3,207,189.00
Other roads – Hopkins Homes	10,896,780.00

Item costs for 3,500 homes	Cost £
Cycle/shared use pathways associated with road network	4,332,938.00
2m footpath associated with road network	4,626,306.00
Cycle routes not associated with road network	957,955.00
Total	70,859,266.00
Item costs for 3,988 homes	Cost £
Neighbourhood streets – Site Masterplan	16,284,968.00
Village centre streets – Site Masterplan	2,175,525.00
Lanes and home roads – Site Masterplan	28,377,603.00
East to West road – Hopkins Homes	3,207,189.00
Other roads – Hopkins Homes	10,896,780.00
Cycle/shared use pathways associated with road network	4,332,938.00
2m footpath associated with road network	4,626,306.00
Cycle routes not associated with road network	957,955.00
Total	70,859,266.00

Source: Appendix C – Cost Analysis Reports

Utilities

4.4.2 The utilities required to facilitate the development are summarised in Table 10. These will constitute costs to the developer. They have been included as part of the Indicative Viability Assessment but are not included as part of the Section 106 requirement.

Utility	Company	Detail	Cost £ for 3,500 homes
Electricity	UKPN	Contestable works	1,091,603.00
		Non-contestable works	10,916,030.00
Gas	National Grid	Strategic improvements to gas supply	2,567,097.00
		Protection works to H/P line	1,637,404.00
		Infrastructure works	574,096.00
		On-site trenching	898,484.00
Water	Anglian Water	Mains water distribution	3,820,610.00
		Foul sewer connections	3,109,459.00
Total			£24,614,786.00
Utility	Company	Detail	Cost £ for 3,988 homes
Electricity	UKPN	Contestable works	1,091,603.00
		Non-contestable works	10,916,030.00
Gas	National Grid	Strategic improvements to gas supply	2,567,097.00
		Protection works to H/P line	1,637,404.00
		Infrastructure works	574,096.00
		On-site trenching	898,484.00
Water	Anglian Water	Mains water distribution	3,820,610.00
		Foul sewer connections	3,109,459.00
Total			£24,614,786.00

Table 10: Required Utilities

Source: Appendix C – Cost Analysis Reports

4.4.3

Full details of required utilities can be found in the utilities statement included in Appendix C.

4.5 Testing Viability

4.5.1 Using the cost information provided, a viability assessment was developed for the IDP to assess the viability of the proposed development of the Growth Area to deliver the infrastructure required. The Indicative Viability Assessment can be found in Appendix B and is summarised in Section 5.

4.6 Stakeholder Consultation

4.6.1 Discussions with developers were undertaken to gain an agreed way forward regarding delivery. Comments on the costing schedules used to underpin the Indicative Viability Assessment (Appendix B) can be found in Appendix E.

5 Delivery of the SEKLSGA

5.1 Infrastructure Delivery

5.1.1 This document has been compiled to present the findings and justification of the infrastructure required to enable the development of the SEKLSGA and to be used for discussion with stakeholders to inform future deliverable development within the SEKLSGA.

5.2 Indicative IDP Phasing Plan

- 5.2.1 As there is no adopted masterplan covering the whole of the SEKLSGA site and indicating geographical distribution of development or phasing, this section of the report sets out an indicative phasing plan adopted for the purposes of assessing the headline viability of the delivery of the SEKLSGA.
- 5.2.2 In producing the phasing plan, regard was given to the following data:
 - The overall development capacity of the Growth Area as set out in the BCKLWN Site Allocations and Development Management Policies Plan (SADMPP) which totals 3,500 residential units
 - The SADMPP indicates that of the 3,500 units, an allocation of 1,600 new homes with supporting infrastructure should be delivered up to 2026
 - The number of units proposed by Hopkins Homes (1,110 units) in the northern portion of the Growth Area in planning application ref. 13/01615/OM
 - The proposed residential build out rate and phasing plan set out in the above Hopkins Homes planning application
 - The residential build out rate proposed for the Growth Area as set out in the BCKLWN Strategic Housing Land Availability Assessment (SHLAA)
 - Market evidence of residential delivery rates
 - The potential location of future road infrastructure
 - Existing gas pipeline restrictions.
- 5.2.3 The resultant plan is set out at Appendix A. This assumes that a total of circa 200 residential units (affordable and private market) are delivered per annum across the whole Growth Area to achieve the target of delivering 1,600 new homes by 2026. A minimum of two outlets delivering units simultaneously is anticipated to reflect overall delivery. This results in a total development programme of 18 years. Taking this into account an indicative phasing plan was drafted which indicates potential delivery and geographical distribution to deliver 3,500 houses over four phases; each phase representing approximately 4 years or 875 units.
- 5.2.4 Associated infrastructure costs were then attributed to phases, meeting the specified trigger points for the provision of required infrastructure to coincide with housing delivery.

5.3 Testing Viability

5.3.1 Indicative viability assessments were undertaken of the entire Growth Area, using the estimated infrastructure costs identified in this document, having regard to all planning policy requirements, including affordable housing and CIL requirements (see Appendix B).

- 5.3.2 A number of additional assumptions were applied within the indicative viability assessment, which in the absence of a defined masterplan scheme or overall development partner have been determined with regard to publicly available data, such as BCIS, and industry standard assumptions for holistic masterplan assessments.
- 5.3.3 It is recognised that several assumptions are based on a holistic masterplan basis and that these may vary from those applied at a more specific level relating to individual applications within the Growth Area.
- 5.3.4 Given the size of the scheme and the circa 18-year delivery profile, in accordance with PPG the assessment has made an allowance for growth in assumed values and inflation in associated costs.
- 5.3.5 Viability of the development of the Growth Area has been determined having regard to the residual profit output, which given the size of the scheme and assumptions applied has been considered on an Internal Rate of Return (IRR) basis.
- 5.3.6 The indicative viability assessment indicates the notional IDP scheme may achieve an IRR of 10.4% over the whole of the proposed development. Taking into account the precautionary nature of the cost schedules due to the lack of an overall masterplan, the capacity for cost savings and potential funding contributions, sensitivity and scenario analysis further indicates that the notional IDP scheme is potentially capable of being viable over the life time of the development and that an overall return of circa 20% IRR is achievable.
- 5.3.7 The series of scenario and sensitivity analyses identified are detailed in the Indicative Viability Assessment in Appendix B.
- 5.3.8 The indicative viability assessment identifies that housing delivery will be strongly correlated to associated and required infrastructure, and as such delivery could be accelerated through forward funding investment. Given the holistic nature of the indicative viability assessment, individual elements of the SEKLSGA delivery will need to be considered on a site-specific basis.

5.4 Items not Included in the Indicative Viability Assessment

- 5.4.1 In addition to the considered inputs, it should be noted that there are potentially a number of other elements that could impact upon the viability of the notional IDP Scheme. However, for the purposes of this assessment, the following items have not been included:
 - · Additional costs for ransom issues between the parties
 - Commercial restrictions such as minimum land value drawdowns; although Gerald Eve takes note that £100,000 per acre is often cited in strategic contracts.
- 5.4.2 Whilst potential ransom costs have not been specifically identified in this assessment; it is considered that a significant proportion of the potential ransoms would simply reflect apportionment of land value and may have minimal impact on additional costs if they are required to deliver development at this location. They may have a greater impact if the scheme is developed piecemeal, where alternative value is defined.

6 Securing Development Infrastructure : Next Steps

6.1 Introduction

6.1.1 Development infrastructure and contributions are associated with the grant of planning permission. They are used to ensure that development proposals are acceptable in planning terms and deliver necessary improvements to, or contributions towards, supporting infrastructure. This section explains the mechanisms and next steps open to BCKLWN in terms of securing developer contributions for the infrastructure that will be required in the SEKLSGA.

6.2 Mechanisms for securing infrastructure

6.2.1 Legislation and national planning policy provide the tools for local authorities to secure developer contributions through the planning system for infrastructure and affordable housing, meet the needs of their area. There are a series of potential mechanisms for securing developer contributions (either individually or collectively) that could be applied by BCKLWN to the SEKLSGA. These are outlined below:

Section 106 Planning obligations

- 6.2.2 Planning Obligations are one of the key mechanisms available to BCKLWN. These are entered into with regard to Section 106 (S106) of the Town and Country Planning Act 1990 (as amended). The notable exception is Section 278 agreements, entered under the Highways Act 1980, which relate to off-site highways works.
- 6.2.3 A Planning Obligation is a legally binding document either contained in a bilateral agreement between local planning authorities and landowner(s)10 and other parties with an interest in land forming the application site or set out in the form of an undertaking made by the landowner(s) and other parties with an interest in land forming the application site to BCKLWN and (if applicable) Norfolk County Council. Planning obligations enable the local authority to secure the provision of infrastructure or services, or contributions towards them, to support development. Planning Obligations are used to make an otherwise unacceptable development acceptable and are only used where it is not possible to resolve an unacceptable impact through planning conditions.
- 6.2.4 The same tests that apply to Planning Conditions (Para 6.2.4.) apply to Planning Obligations this means that Planning Obligations can only be used to enable the provision of additional or renewed infrastructure to create additional capacity in order to satisfy the demands arising directly from that development and to make it acceptable and cannot be used to correct existing pre-development community infrastructure deficits.
- 6.2.5 BCKLWN may (at its discretion) apply contributions secured via planning obligations towards the costs associated with the professional fee and project management costs to fund the planning and implementation stages of delivering new infrastructure (including the process of obtaining all requisite consent orders agreements licences and permissions).Planning obligations could be used to secure on-site provision of, or financial contributions towards affordable housing. The policy for setting the threshold for affordable housing contributions is set out in the Local Plan.

6.2.6 Planning obligations are usually agreed to be spent within a reasonable period of time to programme and plan for the expenditure of contributions, provided that if at the end of such a period the BCKLWN shall have entered into a contract or other legally binding obligation or specific allocation to expend the requisite contribution(s) the BCKLWN shall not be required to refund the relevant contribution(s).

Section 278 Highway Agreements

- 6.2.7 A Section 278 agreement is another option open to the BCKLWN. These agreements secure modifications to the existing highway network to facilitate or service a proposed development. Such agreements enable the funding or undertaking of alteration or improvement works to the public highway necessary to support the development outside or beyond the development site itself (otherwise a Section 106 agreement is used). Section 278 agreements are made between landowners or developers and the Highways Authority. The developer can carry out the works themselves or pay the highway authority to do the works.
- 6.2.8 Works covered by Section 278 Agreements include:
 - Roundabouts
 - Signalised junctions
 - Right turn lanes
 - Safety related works such as traffic calming
 - Street lighting
 - Improved facilities for pedestrians and cyclists
- 6.2.9 Pooling restrictions that apply to planning obligations secured under Section 106 of the Town and Country Planning Act 1990 do not apply to Section 278 Agreements. Section 278 agreements will not be replaced by the Community Infrastructure Levy when this is adopted

Land Development / Equalisation Agreement

- 6.2.10 Another option to secure the delivery of infrastructure in the SEKLSGA could be for BCKLWN to seek to enter into a commercial agreement with the land owners / developers within the SEKLSGA.
- 6.2.11 As part of the agreement, a land price equalisation arrangement could be documented between the relevant land owners / developers to ensure no developer or landowner within the SEKLSGA area is unfairly penalised with regard to paying for essential infrastructure
- 6.2.12 This would be achieved through the equalisation of land prices taking into account cost and infrastructure deductions in promoting the land to allow a fair and timely return.

BCKLWN led Outline Masterplan Application

- 6.2.13 BCKLWN could also seek to help secure the delivery of infrastructure through obtaining outline planning permission for a masterplan for the area of the SEKLSGA outside of (but compatible with) the existing Hopkins Homes application, alongside a detailed planning application for the required strategic road infrastructure. This would ensure the development of the site is coherent and to a proposed masterplan.
- 6.2.14 This could be undertaken by the BCKLWN in isolation or in partnership with the relevant landowner / developers in the SEKLGSA. If in partnership such an agreement could reflect BCKLWN and the land owners entering into a pro-rata share of the cost associated with making an outline planning application; in exchange for an equalised share in the benefits of the

application. These documents could be used as the lynch pin in securing a deliverable mechanism to support an outline planning application for the remaining elements of the SEKLGSA; ensuring any planning permission obtained can be implemented and mitigating the ability of parties to ransom the project; or the need for the use Compulsory Purchase Orders.

Careful thought would be required as to the most appropriate delivery structure - whether this is to be a limited company, an LLP, some other form of corporate development vehicle or a land trust. BCKLWN could be a 50% share partner in the delivery vehicle with the aggregate landowners' planning conditions

- 6.2.15 Planning conditions may also be used to secure the delivery of infrastructure. These are imposed on the grant of planning permission to enhance the quality of development and enable development proposals to proceed where otherwise it would have been necessary to refuse planning permission. Conditions may relate to phasing of development, timing of delivery of infrastructure (including up front delivery before the commencement of development), or the appearance of development all of which can help to manage the adverse impacts or additional pressures of development (NPPF 2018, paragraph 54 enabled by Sections 70 and 72 of the Town and Country Planning Act 1990).
- 6.2.16 When imposing planning conditions, local planning authorities are required to ensure that they meet the following criteria:
 - Necessary to make the development acceptable in planning terms
 - Directly related to the development
 - Reasonable in all other respects and kind to the development

Community Infrastructure Levy (CIL)

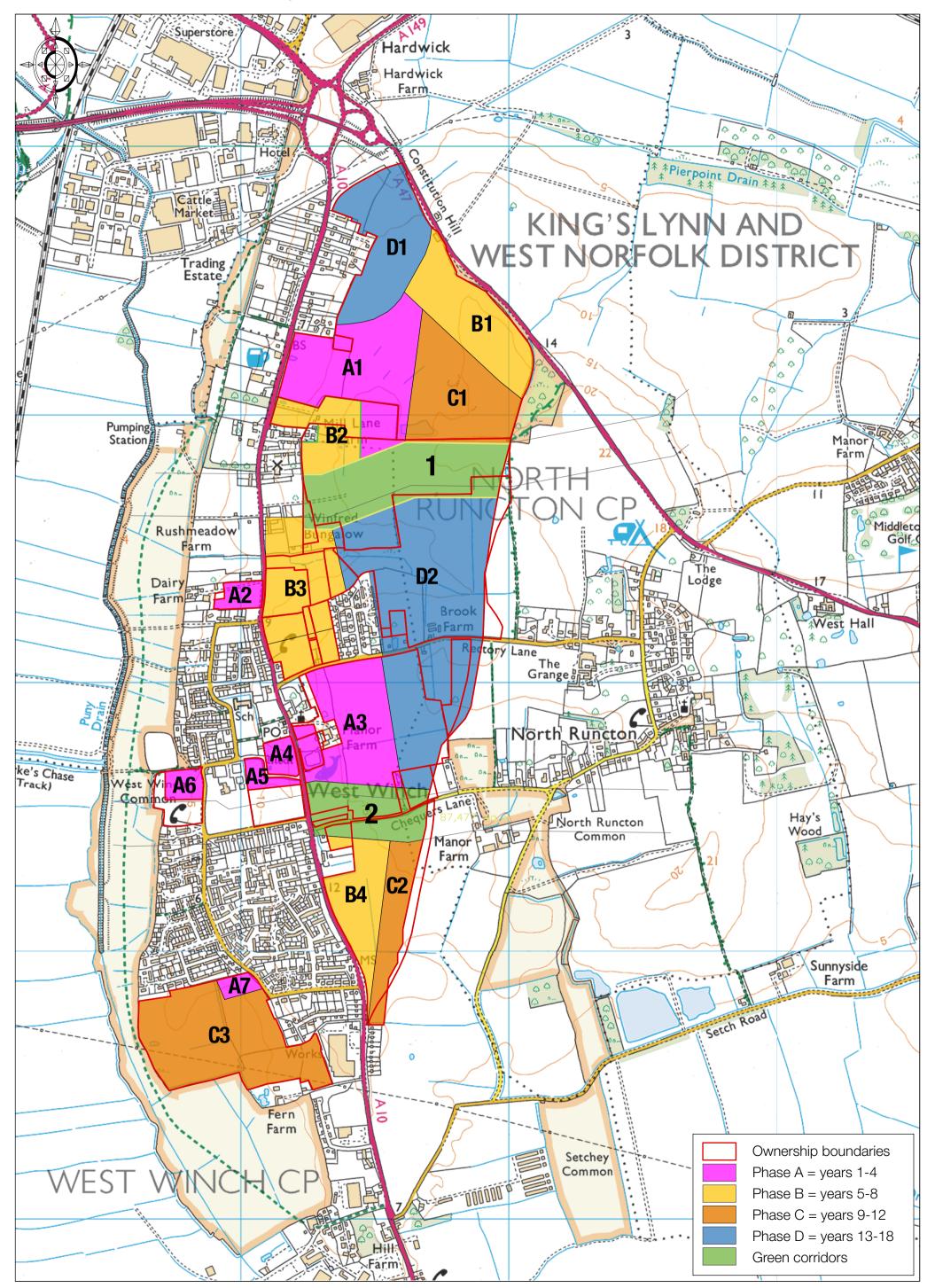
- 6.2.17 In terms of Community Infrastructure Levy (CIL) is one mechanism that could be used for securing contributions towards infrastructure. However, the BCKLWN CIL charging schedule sets out that the West Winch Strategic Growth Area has a zero £ per sq m rating, so that no CIL is currently chargeable on the proposed development of the SEKLSGA. Voluntary Agreements
- 6.2.18 Voluntary agreements such as Unilateral Undertakings cannot be taken into account in the decision-making process.

Appendices

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A. Phasing Plan

Indicative IDP Area Development Phasing





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B. Indicative Viability Assessment



Infrastructure Delivery Plan Indicative Viability Assessment

South East Kings Lynn Growth Area

On behalf of: Borough Council of Kings Lynn and West Norfolk

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NOTE: The contents of this report are for Borough Council of Kings Lynn and West Norfolk and are provided on the understanding that it shall be used only to assist in the delivery of South East Kings Lynn Growth Area. The information contained within this report is believed to be correct as at August 2018 but Gerald Eve LLP give notice that:

- (i) All statements contained within this report are made without acceptance of any liability in negligence, tort or otherwise by Gerald Eve LLP. The information contained in this report has not been independently verified by Gerald Eve LLP;
- None of the statements contained within this report are to be relied upon as statements or representations of fact or warranty whatsoever without referring to Gerald Eve LLP in the first instance and taking appropriate legal advice;
- (iii) References to national and local government legislation and regulations should be verified with Gerald Eve LLP and legal opinion sought as appropriate;
- (iv) Gerald Eve LLP do not accept any liability, nor should any of the statements or representations be relied upon, in respect of intending lenders or otherwise providing or raising finance to which this report as a whole or in part may be referred to; and
- (v) Any estimates of values or similar, other than specifically referred to otherwise, are subject to and for the purposes of discussion and are therefore only draft and excluded from the provisions of the RICS Valuation – Global Standards 2017.

EXECUTIVE SUMMARY

- Mott MacDonald ('MM') with support from Gerald Eve LLP ('GE') have been instructed by the Borough Council of Kings Lynn and West Norfolk ('the Council') to undertake an independent assessment of the viability and deliverability of South East Kings Lynn Growth Area ('SEKLGA') to inform an Infrastructure Delivery Plan ('IDP') to understand and establish any potential funding issues.
- 2. GE's instruction was to review and assess the viability of the proposed development of the SEKLGA in line with the Council's infrastructure requirements. Using infrastructure costs provided by MM in August 2018, GE has undertaken an indicative viability and cash flow exercise to understand the potential funding issues when allowing for a policy compliant level of onsite Affordable Housing.
- 3. This report is part of the wider instruction which is divided into three stages.
- 4. <u>Stage 1</u> reviewed the infrastructure required, clarified the costs of the key infrastructure items and build costs, developed an assumed housing delivery phasing strategy and identified any cashflow funding issues that may influence the delivery of the SEKLGA. Also forming part of Stage 1, this Gerald Eve report provides an assessment of the viability of the notional development of the SEKLGA using the information provided by Mott MacDonald.
- 5. <u>Stage 2a</u> comprises the provision of a draft IDP report by Mott MacDonald to which this Gerald Eve report is appended as a supporting document along with a series of other pieces of supporting documentation.
- 6. <u>Stage 2b</u> is to work with the various parties and stakeholders to agree an appropriate approach to delivery of the SEKLGA and to finalise the IDP.
- 7. This report concludes that having regard to the timescales assumed, information available at this point in time, and sensitivity testing around the assumptions applied, the development of 3,500 residential units and associated infrastructure required presented within the draft IDP is potentially capable of being viable and deliverable.

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Appendices

Appendix 1:	Indicative IDP Area Phasing Plan
Appendix 2(i):	Mott MacDonald 3500 Unit Scheme Infrastructure Cost and Trigger Point Assessment
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Appendix 3:	Matrix of Indicative Base Position Appraisal Inputs
Appendix 4:	Base Position Mid-Case Development Appraisal with Sensitivity Analysis

1 Introduction

- 1.1 Mott MacDonald ('MM') with support from Gerald Eve LLP ('GE') have been instructed by the Borough Council of Kings Lynn and West Norfolk ('the Council') to undertake an independent assessment of the viability and deliverability of South East Kings Lynn Growth Area ('SEKLGA') to inform an Infrastructure Delivery Plan ('IDP') to understand and establish any potential funding issues.
- 1.2 GE's instruction was to review and assess the viability of SEKLGA in line with the Council's infrastructure requirements. Using infrastructure costs provided by MM in August 2018, GE has undertaken a viability and cash flow exercise to understand the potential funding issues when allowing for a policy compliant level of on-site Affordable Housing.
- 1.3 This report provides an assessment of the viability of the notional development of the SEKLGA using the information provided by Mott MacDonald in relation to the key infrastructure required and build costs of the infrastructure; and also the assumed housing delivery phasing strategy.
- 1.4 We understand that this report will be discussed with the various parties and stakeholders to agree an appropriate approach to delivery of the SEKLGA.



2 Site Description

2.1 A description of the SEKLGA site is set out in the MM IDP report. In summary, the area is defined by the Borough Council of Kings Lynn and West Norfolk Site Allocations and Development Management Plan (SADMP) adopted September 2016, as shown in the Figure 1. The Council's "Local Development Framework – Core Strategy" adopted July 2011 also shows this area as an allocated "Area for Urban Expansion".

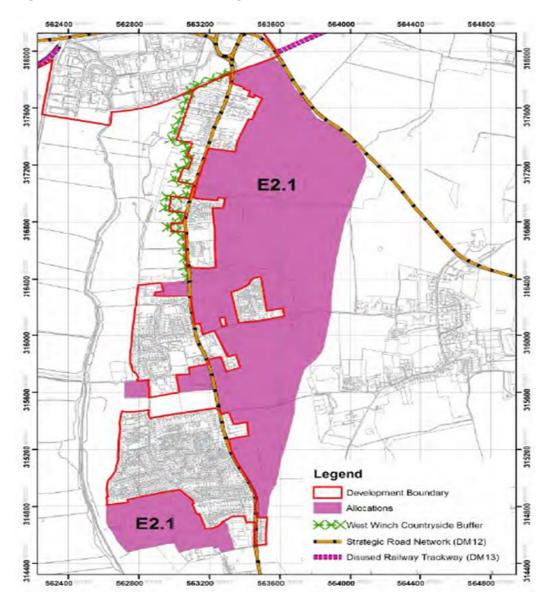


Figure 1 : SEKLGA Plan showing the IDP Area

Source: SADMP (September 2016) - page 119

3 Planning Policy Overview

- 3.1 In this section of the report we provide an overview of planning policy and guidance with specific reference to the background and need for the viability assessments. We also summarise local planning policy in relation to affordable housing and community infrastructure levy (CIL).
- 3.2 The viability assessment has been produced having regard to policy in the National Planning Policy Framework (NPPF) (2012, revised 2018), Planning Practice Guidance (PPG) (2016), National Practice Guidance (NPG) (2018) and other relevant practitioner guidance such as the RICS Guidance Note: Financial Viability in Planning (GN94/2012).

Planning Policy

- 3.3 MM has set out a review of national and local planning policy in relation to the SEKLGA in section 3 of the MM IDP document. The NPPF is referred to in section 3.1 and PPG in section 3.5.
- 3.4 For Planning policy making Authorities are able to rely upon the 2012 NPPF, although the NPPF was revised in July 2018 along with viability guidance in the National Planning guidance (NPG -2018).
- 3.5 The NPPF (2012) has a clear presumption in favour of sustainable development and in determining planning applications local planning authorities should take account of this.
- 3.6 The NPPF (2012) recognises that development should not be subject to such a scale of obligation and policy burdens to where its viability is threatened; and in addition, obligations should be flexible to market changes in order to ensure planned developments are not stalled.
- 3.7 The current PPG (2015) relating to planning obligations reinforces this point relating to viability in relation to obligations:

PPG (2016) states:

"Planning obligations assist in mitigating the impact of unacceptable development to make it acceptable in planning terms. Planning obligations may only constitute a reason for granting planning permission if they meet the tests that they are necessary to make the development acceptable in planning terms, directly related to the development, and fairly and reasonably related in scale and kind."

(Paragraph 001 Ref ID 23-b-001-20161116)

3.8 The PPG also indicates where local planning authorities are requiring affordable housing obligations or tariff style contributions to infrastructure:

..they should be flexible in their requirements. Their policy should be clear that such planning obligations will take into account specific site circumstances.

(Paragraph: 006 Reference ID: 23b-006-20140306)

- 3.9 The NPPF (2018) continues to recognise the place of viability testing, in both plan-making and decision-making.
 - 3.10 Paragraph 57 of the NPPF (2018) states:-

"Where up-to-date policies have set out the contributions expected from development, planning applications that comply with them should be assumed to be viable. It is up to the applicant to demonstrate whether particular circumstances justify the need for a viability assessment at the application stage. The weight to be given to a viability assessment is a matter for the decision maker, having regard to all the circumstances in the case, including whether the plan and the viability evidence underpinning it is up to date, and any change in site circumstances since the plan was brought into force. All viability assessments, including any undertaken at the plan-making stage, should reflect the recommended approach in national planning guidance, including standardised inputs, and should be made publicly available." – our emphasis

3.11 In the Viability section of the NPG (2018) which has been recently updated following a consultation exercise earlier in the year, applicants are now required to demonstrate whether particular circumstances justify the need for a viability assessment at the application stage. The NPG then sets out such circumstances which could include:

"...where development is proposed on unallocated sites of a wholly different type to those used in viability assessment that informed the plan; where further information on infrastructure or site costs is required; where particular types of development are proposed which may significantly vary from standard models of development for sale (for example build to rent or housing for older people); or where a recession or similar significant economic changes have occurred since the plan was brought into force."

(Paragraph 007 Reference ID: 10-007-20180724)

3.12 Where viability assessments accompany applications the NPG at paragraph 008 (ID 008-20180724) requires these to be based upon and refer back to the viability assessment that informed the plan and provide evidence of what has changed. In these cases "the weight to be given to a viability assessment is a matter for the decision maker having regard to all the circumstances in the case ..."

The RICS Guidance Note: Financial Viability in Planning

- 1.1 The RICS Guidance Note (RICS GN) was published in August 2012 (CD REF A7). The purpose of the guidance note is to enable all participants in the planning process to have a more objective and transparent basis for understanding and evaluating financial viability in a planning context. It provides practitioners with advice in undertaking and assessing viability appraisals for planning purposes.
- 1.2 The RICS defines a guidance note is a document "that provides users with recommendations for accepted good practice as followed by competent and conscientious practitioners". It also states that "where members do not comply with practice recommended in this note, they should do so only for a good reason" (RICS Guidance notes, page 1 RICS GN).
- 1.3 The RICS GN represents 'best practice' for its members and others who prepare and/or use financial viability assessments.

- 1.4 The RICS GN provides all those involved in financial viability in planning and related matters with an objective methodology framework and set of principles that can be applied for both plan making and development management.
- 1.5 It is grounded in the statutory and regulatory planning regime that currently operates in the UK. It is consistent with the Localism Act 2011, the NPPF and the CIL Regulations 2010. The production of the guidance note was subject to wide consultation with both the public and private sectors. In particular it was drafted to be consistent with the NPPF which preceded the release of the RICS GN.
- 1.6 Financial viability for planning purposes is defined in the RICS GN as follows:

"An objective financial viability test of the ability of a development project to meet its costs including the cost of planning obligations, whilst ensuring an appropriate site value for the landowner and a market risk adjusted return to the developer in delivering that project."

1.7 The RICS GN definition of Site Value states:-

"Site Value should equate to the Market Value subject to the following assumption: that the value has regard to development plan policies and all other material planning considerations and disregards that which is contrary to the development plan."

1.8 Market Value is defined in the International Valuation Standards (IVS) 2017, which are produced by the International Valuation Standards Council (IVSC) and serve as the key guidance for valuation professionals globally. The IVS 2017 are reproduced in full in the RICS Valuation – Global Standards 2017 ("**the Red Book**") and are adopted and applied throughout the Red Book. Within the IVS 2017, Market Value is defined at paragraph 30.1. as "*the estimated amount for which an asset or liability should exchange on the valuation date between a willing buyer and a willing seller in an arm's length transaction, after proper marketing and where the parties had each acted knowledgably, prudently and without compulsion.*"

- 1.9 Site Value is not unrestricted when compared to Market Value as defined in the IVS. The degree of variance will be subject to a judgement, having regard to the circumstances in each instance.
- 1.10 Paragraph 3.4.5 of the RICS GN states:

"The Site Value will be based on <u>market value, which will be risk-adjusted</u>, so it will normally be less than current market prices for development land for which planning permission has been secured and planning obligation requirements are known. The practitioner will have regard to current use value, alternative use value, market/transactional evidence (including the property itself if that has recently been subject to a disposal/acquisition), and all material considerations including planning policy in deriving the Site Value." -Our emphasis

- 1.11 The RICS GN therefore supports the notion that Site Value must be at a level where the landowner is incentivised to sell for development when compared to other options as recognised by the NPPF and the NPG including holding the land or selling it on.
- 1.12 The RICS GN at paragraph 3.4.7 explicitly makes reference to the use of comparable evidence in providing an indication of the land value that a land owner might expect, albeit noting the need to risk adjust having regard to the planning permission, if in place. Whilst noting that often there might be a lack of up to date comparable information, the RICS GN stresses the importance of comparable information, even if limited as evidenced by court and lands tribunal decisions.
- 1.13 Although the updated NPPF and NPG has followed the publication of the RICS GN, the principles set out in the RICS GN are, in my opinion, relevant and wholly consistent with government policy and guidance.

Planning Policy relating to Development

- 3.13 It is important that the approach taken to affordable housing and scheme viability does not compromise the ability to deliver residential development on the Site.
- 3.14 This section therefore sets out the planning parameters and guidance under which the proposed development is assessed, having regard to the objectives of national, local and site specific planning policy.

Borough Council of Kings Lynn and West Norfolk Affordable Housing Policy

3.15 Policy CS09 of the Council's "Affordable Housing Policy" April 2011 document sets out that,

"The overall target for affordable housing in the borough during the plan period will be related to the ability to deliver in the market conditions that prevail at the time a planning application is made. At the present time the percentage which will be sought for affordable housing provision on qualifying sites is:

- 15% within the built up area of King's Lynn;
- 20% in all other areas."
- 3.16 The SEKLGA falls within area where 20% affordable housing is required.
- 3.17 In terms of tenure split, section 6.6 of the Council's "Affordable Housing Policy" April 2011 document also sets out that,

"The tenure split of affordable housing sought as a requirement of S.106 agreements will be 70:30 rent to shared ownership. The need for rented to shared ownership in this proportion has been established through research evidenced in the Strategic Housing Market Assessment."

Community Infrastructure Levy

3.18 In terms of Community Infrastructure Levy (CIL), the Council's CIL charging schedule sets out that the West Winch Strategic Growth Area has a zero £ per sq m rating, so that no CIL is chargeable on the proposed development of the



SEKLGA site.

Identification of Infrastructure and Section 106 Costs

- 3.19 The MM draft IPD highlights the various documents from which the required infrastructure and section 106 costs have been identified. These include:
 - Core Strategy: Policy CS09;
 - SADMP: Policy E.1;
 - Neighbourhood Plan: North Runcton and West Winch; and
 - Planning application 13/01615/OM

4 Indicative SEKLGA Phasing Plan

- 4.1 As there is no adopted masterplan which covers the whole of the SEKLGA site indicating geographical distribution of development or phasing, in this section of the report we set out an indicative phasing plan we have adopted for the purposes of assessing the headline viability of the delivery of the SEKLGA.
- 4.2 In producing the phasing plan, we have had regard to the following data :
 - The overall development capacity of the Growth Area as set out in the BCKLWN Site Allocations and Development Management Policies Plan (SADMP) which totals 3,500 residential units;
 - The SADMP indicates that of the 3500 units, an allocation of 1,600 new homes with supporting infrastructure should be delivered up to 2026¹;
 - The number of units proposed by Hopkins Homes (1,110 units) in the northern portion of the Growth Area in planning application ref. 13/01615/OM;
 - The proposed residential build out rate and phasing plan set out in the above Hopkins Homes planning application;
 - The residential build out rate proposed for the Growth Area as set out in the BCKLWN Strategic Housing Land Availability Assessment (SHLAA).
 - Market evidence of residential delivery rates; and
 - The potential location of future road infrastructure and also existing gas pipeline restrictions.
- 4.3 The resultant plan is set out at **Appendix 1**. This assumes that a total of circa 200 residential units (affordable and private market) are delivered per annum across the whole growth area in order to achieve the target of delivering 1600 new homes by 2026. We would anticipate a minimum of two outlets delivering units simultaneously to reflect overall delivery. This results in a total development programme of 18 years.

¹ 1600 residential units assuming start on site no earlier than 2018 indicates a requirement for circa 200 units per annum

5 Infrastructure Costs and Trigger Points

- 5.1 MM has produced an assessment of the cost of the infrastructure requirements set out in the Local Development Framework and the draft Neighbourhood Plan, together with Section 106 costs and other infrastructure costs required for development as part of the SEKLGA. For the purposes of our viability assessment we have relied on these costs.
- 5.2 The MM cost estimate has been agreed by the Council and split into four "pots". A full schedule of costs dated 20th July 2018 is set out at Appendix 2(i) in relation to a notional scheme of 3500 residential units. These are summarised in Figure 2 :

Cost Heading	Costs
1. Section 106 Costs	£83,412,053
2. Additional Draft Neighbourhood Plan Costs	£726,378
3. Developer Costs	£70,859,266
4. Other Infrastructure Costs	£24,614,787
Total	£179,612,484

Figure 2 : Infrastructure Costs Summary

Source – Mott MacDonald

- 5.3 **Figure 2** shows that the S106 Strategic Infrastructure and Neighbourhood Plan requirements equate to c. £51,000 per unit, based on the 3,500 units proposed for delivery. The total costs on a price per unit basis are consistent when compared to other Masterplan reviews which GE has assessed.
- 5.4 A further revised cost plan has been produced by MM to inform our sensitivity analysis relating to a notional scheme with a greater residential density of 3988 homes. This is set out at **Appendix 2(ii)** dated 20th July 2018.

Infrastructure Trigger Points

5.5 In terms of the trigger points for delivery of the infrastructure required throughout the



proposed development of the SEKLGA, these are set out in the MM schedule at **Appendix 2.** GE has relied on this information in producing this report, and it reflected in our appraisal analysis.

6 Summary of Appraisal Inputs

- 6.1 In addition to the phasing and infrastructure assumptions set out above, we have also used a series of other appraisal inputs in producing the headline IDP viability assessment.
- 6.2 Applied assumptions have been determined on the basis of review the Growth Area on a holistic approach. However it is recognised that individual detailed elements of the Masterplan may result the application of different assumptions, such as build cost, programme, land agreements and profit return. Cost and value and return recover will be over differing timescales for individual developments within the Masterplan; however this assessment has focused on the viability of the overall development which spans the delivery of 3,500 units and associated infrastructure over an approximate 18 year period.
- 6.3 These are set out in a matrix at **Appendix 3** along with a summary explanation of the reasoning behind each assumption. We have provided additional commentary below on some the key assumptions:

Build Costs

- 6.4 Other than planning application 13/01615/OM, there is no indication of a proposed scheme within the SEKLGA.
- 6.5 As there is no clear product being delivered, no detailed cost assessment has been undertaken. We understand that Hopkins Homes are currently in the process of costing their element of the scheme, however, as at the date of this report, we have not been provided with a cost schedule.
- 6.6 Therefore, we have had regard to data publications to determine an appropriate build cost and we have then applied industry standard assumptions to reflect potential uplifts.
- 6.7 We have used Build Cost Information Services ('BCIS') to inform the build costs and, to factor in that there is no clear defined residential product, we have relied upon the median cost level. The BCIS costs for housing and for flats is summarised in **Figure 3**.

Figure 3 - BCIS Build Costs for Estate Housing and Flats

Туре	BCIS Median £/sq m	BCIS Median £/sq ft
Estate Housing (2 storey)	£1,047	£97.26
Flats (3 to 5 storey)	£1,244	£115.57

Source: BCIS (21.01.17)

6.8 Having established the BCIS build cost we have then added 5% for external works and 3% for abnormals to arrive at the residential build costs in **Figure 4** which we have adopted in our appraisals. Such costs are not included within BCIS costing but are anticipated with development of this type. In order to update the costs set out above (from our 2017 draft report) to August 2018 we have also applied the BCIS All-In Tender Price Index to these. Our adopted figures are set out below:

Figure 4 - Adopted Construction Costs (at as August 2018)

Туре	Adopted Construction Cost £/sq m	Adopted Construction Cost £/sq ft
Houses	£1,172	£108.88
Flats	£1,392	£129.38

Private Residential Revenue

Figure 5 - Private Residential Units

Residential Units	Private Unit Area
1 bed flat size (Private Market Sale)	482 sq ft (45 sq m)
2 bed flat size (Private Market Sale)	655 sq ft (61 sq m)
2 bed house size (Private Market Sale)	700 sq ft (65 sq m)
3 bed house size (Private Market Sale)	950 sq ft (88 sq m)
4 bed house size (Private Market Sale)	1,350 sq ft (125 sq m)
5+ bed house size (Private Market Sale)	1,510 sq ft (140 sq m)

6.9 Having adopted the unit sizes set out above, we have then gone on to assess the value of each unit type based on our analysis of comparable market evidence. We have also then updated our original assessment from 2017 to August 2018 using the Land Registry House Price Index. Based on this information we have adopted the private residential units sales values set out in **Figure 6** :

Figure 6 - Private Residential Sales Values

Private Residential Units	Unit Sales Values as at 2017	Updated Unit Sales Values as at August 2018
1 bed flat capital value (Private Market Sale)	£87,000	£91,872
2 bed flat capital value (Private Market Sale)	£120,000	£126,720
2 bed house capital value (Private Market Sale)	£158,000	£166,848
3 bed house capital value (Private Market Sale)	£212,000	£223,872
4 bed house capital value (Private Market Sale)	£280,000	£295,680
5+ bed house capital value (Private Market Sale)	£293,000	£309,408

6.10 On the basis of the above capital values and the unit mix we have assumed (see Appendix 3) our opinion is that the private sales values that could be achieved in the SEKLGA on an overall blended basis is c.£230 per sq ft.

Affordable Housing

- 6.11 As set out in section 3, the Council "Affordable Housing Policy" 2011 indicates that 20% affordable housing policy is required, on the basis of a 70:30 rent to shared ownership split. We have therefore made these assumptions for the purposes of our analysis.
- 6.12 As instructed by the Council, in assessing the appropriate value to apply to the affordable residential component of the SEKLGA scheme we have adopted the unit areas set out in **Figure 7.**

Figure 7 - Affordable Residential Unit Type	Adopted Unit Sizes	
1 bed flat size (Affordable Unit)	50 sq m (538 sq ft)	
2 bed flat size (Affordable Unit)	70 sq m (753 sq ft)	
2 bed house size (Affordable Unit)	80 sq m (861 sq ft)	
3 bed 5 person house size (Affordable Unit)	93 sq m (1,001 sq ft)	
3 bed 6 person house size (Affordable Unit)	102 sq m (1,098 sq ft)	
4 bed house size (Affordable Unit)	115 sq m (1,238 sq ft)	
5 bed house size (Affordable Unit)	119 sq m (1,281 sq ft)	
2 bed bungalow size (Affordable Unit)	70 sq m (753 sq ft)	
3 bed bungalow size (Affordable Unit)	86 sq m (926 sq ft)	

6.13 Based on the assessment carried out by our affordable housing team and agreed by the Council, we have adopted the updated sales values as at August 2018 set out in **Figure 8** for the intermediate and affordable rented element of the affordable housing. Based on a policy compliant mix of units this equates to an average sales rate of circa £101 per sq ft for the affordable rent units and £126 per sq ft for the intermediate units.

Affordable Residential Unit Type	Unit Values as at 2017	Updated Sales Values as at August 2018
1 bed flat capital value (Intermediate)	£81,000	£85,538
2 bed flat capital value (Intermediate)	£84,000	£88,704
2 bed house capital value (Intermediate)	£102,000	£107,712
3 bed 5 person house capital value (Intermediate)	£116,000	£122,496
3 bed 6 person house capital value (Intermediate)	£132,000	£139,392
4 bed house capital value (Intermediate)	£174,000	£183,744
5 bed house capital value (Intermediate)	£182,000	£192,192
2 bed bungalow capital value (Intermediate)	£98,000	£103,488
3 bed bungalow capital value (Intermediate)	£112,000	£118,272
1 bed flat capital value (Affordable Rent)	£68,000	£69,695
2 bed flat capital value (Affordable Rent)	£82,000	£84,370
2 bed house capital value (Affordable Rent)	£82,000	£84,370
3 bed 5 person house capital value (Affordable Rent)	£100,000	£99,534
3 bed 6 person house capital value (Affordable Rent)	£100,000	£99,534
4 bed house capital value (Affordable Rent)	£121,000	£124,720
5 bed house capital value (Affordable Rent)	£126,000	£125,779
2 bed bungalow capital value (Affordable Rent)	£69,000	£71,349
3 bed bungalow capital value (Affordable Rent)	£100,000	£99,534

Figure 8 - Affordable Residential Values

Benchmark Land Value (BLV)

- 6.14 In concluding an appropriate Benchmark Land Value (BLV) for the proposed Growth Area GE has regard to the following:
 - National Planning Practice Framework (NPPF);
 - Planning Practice Guidance/National Planning Guidance (PPG/NPG);
 - RICS Professional Guidance Note 12: Financial Viability in Planning (2012);
 - The Harman Report Local Housing Delivery Group (June 2012) Viability Testing Local Plans;

- The HCA Transparent Viability Assumptions Report (2010) Area Wide Viability Model Annex 1;
- Turner Morum DCLG (2011) Cumulative impacts of regulations of house builders; and land owners research paper; and
- BCKLWN CIL Viability Assessment (March 2016) by HRH.
- 6.15 Turner Morum on behalf of DCLG (in 2011) conclude land values were typically between £246,000 and £369,000 per gross hectare (£100,000 to £150,000 per gross acre) for greenfield agricultural sites with strategic development potential. It is note that the Turner Morum report was based on their experience and observation although it did not appear to be supported by market analysis or evidence.
- 6.16 In the BCKLWM CIL viability assessment (2016) it was concluded based upon 19 known transactions that residential land with planning consent within the Kings Lynn area had a value of circa £354,000 per gross hectare or £143,261 per gross acre. It is noted that these transactions were significantly smaller and do not require the infrastructure delivery proposed for the Growth Area.
- 6.17 Following review of land values in BCKLWM the 2016 CIL viability assessment conclude the following land values:
 - I. Agricultural land £25,000/ha (c.£10,000/acre);
 - II. Paddock land £50,000/ha (c.£20,000/acre);
 - III. Garden land £100,000/ha (c.£40,500/acre);
 - IV. Industrial land £380,000/ha (c.£153,700/acre); and
 - V. Residential land £650,000 net/ha, (c.£250,000 net/acre)

£350,000 gross/ha (£140,500 gross/acre)

- 6.18 The Growth Area has identified 3,500 houses to deliver within an area of circa 474 acres, with an anticipated minimum density of circa 11.5 per developable acre (c.28 per ha), suggesting the need for circa 303 residential developable acres with the remaining 170 acres for other uses including open space, roads and education.
- 6.19 However, the residential land value evidence would appear based on schemes at higher density circa 16-20 per net acre. When adjusted to reflect the Growth Area density this would indicate developable land values of circa £355,000 pdha (£144,000/pda) to £450,000 pdha (£180,000 pda); with non-developable land at circa £25,000 pha (£10,000 pa).

- 6.20 We are therefore of the opinion that due to the variations in potential required developable land, accounting for infrastructure costs and non-developable land within the masterplan area an appropriate Benchmark Land Value (BLV) with which to assess an indicative scheme should reflect a minimum of c.£47,700,000 or c.£247,000 pgha (c.£100,000 pga) for the landowner to release for development. This reflects c.£370,000 pdha (c.£150,000pda) for residential land and £25,000 for non-developable land (c.£10,000pa).
- 6.21 In accordance with NPG (2018) the BLV can be considered as the aggregation of component 1 (EUV) and component 2 (Land owners Incentive/Premium). The current predominant use of the property is agricultural and equine use and therefore component 1 reflects circa £25,000 to £50,000 per hectare with Component 2 reflecting circa £197,000 to £225,000 per acre.
- 6.22 We are of the opinion that due to the variations in development land (accounting for infrastructure costs) and non-developable land, it is possible that the Market Value of individual parcels of land may vary across the Growth Area when not considered on an equalised approach, however in order to the sustainable delivery of a holistic scheme site value should be considered on an equalised approach.

Cost and Value Growth

- 6.23 As a result of the length of the development programme for the SEKLGA it is appropriate to assume growth in costs and values across the development period. For this reason we have adopted the growth rates set out in Figure 9:
- 6.24 We would note that in order ensure the robustness of our construction cost forecast growth assumptions we have used figures derived from an average of a range of latest forecasts from established market commentators. We have termed this the "mid-case" and have set this out in the following table.

Cost and Value Growth Assumptions	Forecast Adopted	Source
Construction Cost Growth (Infrastructure and build costs)	Yr1 0.5%; Yr2 2.2%; Yr3 3.0%; Yr4 3.7%; Yr5 3.8%; Yr6+ 2.6%	Average annual forecast based on Gardiner and Theobald; Turner and Townsend; Mace and BCIS All In Tender Price Index (TPI) forecast at August 2018
Private Residential Sales Value Growth	Yr1 2.0%; Yr2 3.0%; Yr3 4.0%; Yr4 3.0%; Yr5+ 3.2%.	Knight Frank UK Residential Market Forecast for East of England (as at May 2018) (Most up to date established forecast as at Aug 2018)
Intermediate Residential Sales Value Growth	Yr1 2.0%; Yr2 3.0%; Yr3 4.0%; Yr4 3.0%; Yr5+ 3.2%.	Knight Frank UK Residential Market Forecast for East of England (as at May 2018) (Most up to date established forecast as at Aug 2018)
Affordable Rent Residential Sales Value Growth	Yr1 3.4%; Yr2 3.1%; Yr3 3%; Yr4 3%; Yr5+ 3.12%	Bank of England Consumer Price Index (CPI) Projections as at August 2018 plus 1%
Commercial Land Value Growth	Yr1+ 2.1%	Bank of England Consumer Price Index (CPI) Projections as at August 2018 (4 year predicted average)
Residential Land Value Growth	Yr1 1.5%; Yr2 2.5%; Yr3 3.5 %; Yr4 2.5%; Yr5+ 2.7%.	Knight Frank UK Residential Market Forecast for East of England (as at May 2018). (Most up to date established forecast as at Aug 2018). Average for next 5 years less 0.5% to allow for notional effect of cost inflation.

Figure 9b - Construction cost Growth Assumptions

Case	Best Case			Worst Case	Mid Case
Forecast	Gardiner and Theobald	Turner and Townsend	Mace	BCIS - All In TPI	Average %
	Q2 18	Autumn 17	Q1 18	Aug-18	
2018	1.0	1.4	1	-1.6	0.5
2019	1.0	2.5	1.5	3.8	2.2
2020	1.5	3.2	3	4.3	3.0
2021	1.5	3.6	4	5.6	3.7
2022	2.0	N/A	N/A	5.6	3.8
Cumulative Total	7.0	10.7	9.5	17.7	13.1
Annual Forecast Average	1.4%	2.7%	2.4%	3.5%	2.6%

Professional Fees, Finance Costs, Agency and Disposal Fees

- 6.25 **Figure 10** sets out the professional fees, finance, agency and disposal fees that we have adopted in the appraisals we have undertaken.
- 6.26 The sources and assumptions that we have used as a basis for these adopted costs are also set out in **Figure 10**.

Items not included

- 6.27 In addition to the considered inputs, GE notes that there are potentially a number of other elements that could impact upon the viability of the Scheme. However, for the purposes of this assessment, the following items <u>have not been included</u>:
 - Additional costs for ransom issues between the parties;
 - Commercial restrictions such as minimum land value drawdowns; although GE is aware that £100,000 per acre is often cited in Strategic contracts.

Figure 10 - Adopted Professional Fees, Finance Costs, Agency and Disposal Fees

Input	Adopted Costs	Source / Assumption	
Professional Fees	8%	Dependent on complexity of a development. Typically range from 6-15% with the lower end of the range being for housing delivered by a national housebuilder.	
Finance	6.00%	Assumption based on finance rates available in the market	
Acquisition Costs	1.8% (agent, legal & VAT)	Standard industry assumption	
Residential Disposal Fees	1% marketing, 1% agent, 0.5% legal	Standard industry assumption	
RP Purchase cost	0.8% of Affordable Housing GDV	Agency fees that the Developer pays to market and tender the Scheme to potential RP purchasers. Market norm on smaller schemes range from 1-1.25%. 0.8% assumed due to large size and estimated value of this scheme.	
Land disposal fee for commercial serviced land	1% marketing, 1% agent, 0.5% legal	Standard industry assumptions	

6.28 Whilst potential ransom costs have not been superficially identified this assessment; GE considers that a significant proportion of the potential ransoms

would simply reflect apportionment of land value and may have minimal impact on additional costs if they are required to deliver development at this location. They may have a greater impact if the scheme is developed piecemeal, where alternative value is defined.

7 Return Assumptions

- 7.1 In this section we look at the appropriate measure of return that a developer should consider being reasonable given the associated costs and risks that might be required for the Site.
- 7.2 The financial appraisals have been undertaken in accordance with generally accepted guidance in undertaking viability assessments, in particular, PPG (2016), NPG (2018), RICS guidance and emerging viability assessment guidance of Masterplan developments.
- 7.3 A significant factor in undertaking viability assessments is the level of profit which a developer might reasonably require from undertaking the development. This will depend on a number of factors including the size of the development, the perceived risks involved, the degree of competition for the site from competing developers, the state of the market in terms of demand for value of the completed development, etc.
- 7.4 It is recognised that Development profit is necessary if private sector investment is to deliver any given project. The level of profit is essentially the reward to the developer for the time, expertise and risk involved in carrying out the process of development. When the developer/land owners are one and the same this may be reflected in the development return.
- 7.5 The level of profit will vary between projects and will reflect a range of factors including market demand, competition, scheme complexity, financial risk and exposure particularly in relation to up-front or abnormal costs together with the anticipated timescales for the development.
- 7.6 The NPG (2018) parragraph018 (Ref 10-018-20120724) indicates that for the purpose of plan making an assumption of 15-20% of gross development value (GDV) may be considered a suitable return to developers in order to establish the viability of plan polices.
- 7.7 This is not a direct guidance for scheme specific applications and that specific development returns need to account for type, scale and risk profile of the planned development. Furthermore it is recognized that lower returns are

considered more appropriate for affordable housing where risk to receipt of income are lower; and that alternative figures may also be appropriate for different development types.

- 7.8 As a measure of development return (GDV), it is commonly used as a benchmark for qualifying the risks of a standard development project when calculating a residual value, and as a simple measure of return in development appraisals. This methodology is reasonable where the influence of time is limited on both costs and revenues; for example, assessment of individual phases of the Masterplan at the time of implementation. However, a major masterplan type development is an exception to this approach.
- 7.9 It is considered by the Council that development type of this proposal reflects a masterplan and that the appropriate return proxy should reflect the scheme's size, development time frame, complexity and infrastructure requirements.
- 7.10 In terms of being satisfied of scheme viability, it is usual for any project proposal to be accompanied by a cashflow model – a residual appraisal or a Discounted Cash Flow (DCF) appraisal that shows both the expenditure and receipts and the time frame across which these will take place. In the case of long term development project types such as Regeneration and Masterplan developments, these appraisals will inform investors with a projected viability, Internal Rate of Return (IRR) or Net Present Value (NPV) (see Glossary). The rate of return (the target profit or Discount Rate) that the investor will apply to their investment in the project, and thereby informing the scheme's viability, will depend to a great extent on the way in which the landowner agrees with the assumptions within the appraisal. It is important, therefore, to ensure that the early project preparation and planning stages are comprehensive and robust.
- 7.11 RICS Guidance 2012 (P42- E3.2.8) further highlights that:

"The Nature of the development prevailing practice in the market for the sector influences the target profit margin or rate of return. This varies between developments....Increasingly, and particularly in respect of large scale or lengthy developments, the internal rate of return is used."

7.12 Whilst the SEKLGA will be delivered through a number smaller phases, where

standard methodologies for assessing a competitive return are appropriate; this approach is limited for considering viability of the holistic scheme where the development will be spread over at least 19 years and the risk and costs of the scheme will be spread between Stakeholders and phases.

- 7.13 In line with Government and RICS guidance, to reflect the prolonged period of the development which is anticipated to be approximately 19 years, GE considers that for this development type a more appropriate return proxy to be applied in this instance would be an Internal Rate of Return (IRR) rather than a GDV approach.
- 7.14 The RICS Workbook Financial Viability in Planning Principles and Methodologies V7 defines IRR as follows:

"The IRR on an investment or project is the "annualised effective compounded return rate" that makes the net present value of all cash flows (both positive and negative), including the initial investment and future cash flows, equal to zero. It is found by trial and error by applying present values at different rates of interest in turn to the net cash flow. It is sometimes called the discounted cash flow rate of return. In development financial viability appraisals the IRR is commonly, although not always, calculated on a without-finance basis as a total project IRR."

- 7.15 Such an approach has been recently adopted for the assessment of :
 - Ipswich Borough Council Infrastructure Development Plan for Ipswich Garden Suburb in 2016 (circa 3,500 residential units);
 - Canada Water Area Action Plan 2013 (Montagu Evans /London Borough of Southwark);
 - Convoys Wharf (3,500 residential units plus other associated uses) by the Greater London Authority;
 - BNPPRE/ London Borough of Brent in 2015/2016 as an appropriate method of assessment for Wembley Masterplan (c.4,000 units plus A1/B1/C1/DS/DS;
 - GVA/Birmingham City Council (2014) applied an IRR approach when

considering an appropriate CIL charging schedule.

7.16 Furthermore, RICS study paper 'Financial Viability in planning appeals – theory and practice', paragraph 4.4 which expresses a preference for IRR in viability testing. This states:

"Assumptions regarding finance are linked to those relating to profit. 100% debt financing appears to be universal and unchallenged and even the rate used appears on non-contentious with 7% adopted in four out of five cases where it is mentioned.

As stated above, the return to the developer is included as a cash sum, calculated as a ratio to total development costs or gross development value. In reality very few developments are funded using 100% debt finance. Instead financing arrangements are usually a mixture of debt and equity funding and the developer typically funds a proportion of the development costs as an equity provider. Consequently a measure of return on the developer's investment should be a function of this equity stake, i.e. a return on equity or, more correctly, an equity IRR."

Return to Developer Assumption

- 7.17 As set out in section 6, due to the length of the assumed development programme for the development of the SEKLGA we have factored in to our assessment both cost and value growth over the life of the scheme.
- 7.18 Taking this into account, when considering whether the proposed development is potentially capable of being viable it is our opinion that a reasonable target IRR when testing the scheme on the basis of using grown costs and values, is 20%.



8 Base Position Appraisal Results

- 8.1 This section sets out the appraisal results from our assessment of the notional development of the SEKLGA having regard to the inputs, and phasing outlined in the previous sections of this report together with the infrastructure costs and Section 106 requirements.
- 8.2 The base position appraisal results are set out in **Figure 11**.

Phase	Base Position Scenario (IRR)
1	5.1%
2	11.7%
3	11.6%
4	18.0%
Merged	10.4%

Figure 11 - Base Position Appraisal Results

- 8.3 The results shown in **figure 11**, show that in the base position, the notional IDP scheme can be seen to generate an IRR of 10.4% over the whole development. The development appraisal showing this result is attached at **Appendix 4**.
- 8.4 As set out in section 7 the target IRR for the scheme is 20% and so on the basis of the assessment this does not generate a viable scheme. For this reason we have gone to examine a series of alterative scenarios and also to test the base position appraisal using sensitivity analysis. This is set out in the following section.

Net Balancing Payment

8.5 In addition we have assessed what the approximate grant funding requirement would be in order to increase the overall scheme IRR to the 20% target. In this case, an upfront funding amount of circa £23.7m would appear to enable the scheme to reach a viable IRR of 20%.

9 Scenario and Sensitivity Testing

9.1 This section sets out the different scenarios we have tested in order to assess the viability of the notional development of the SEKLGA. Given the indicative nature of the viability assessment, in accordance with RICS guidance it is important to consider the impact of sensitivity around chosen assumptions. We have therefore undertaken sensitivity analyses on the base position appraisal and also the scenario appraisals, in order to test the impact of changes in key appraisal inputs on those appraisals.

Base Position Sensitivity Analysis

9.2 As the base position appraisal does not generate sufficient return to reach the target IRR of 20% we have therefore tested the sensitivity of the appraisal to changes in private residential sales values and construction costs. Figure 12 therefore shows how a variation + / - 5% in private residential sales values and construction costs impacts on the IRR of the notional scheme. The full sensitivity analysis results are shown in the appraisal at Appendix 4.

Phase	Base Position Scenario (IRR)	Sensitivity Upper Range (IRR) (+5% Sales / -5% Costs)	Sensitivity Lower Range (IRR) (-5% Sales / +5% Costs)
1	5.1%	15.8%	-5.3%
2	11.7%	26.3%	-1.4%
3	11.6%	24.3%	-0.2%
4	18.0%	30.5%	6.6%
Merged	10.4%	20.7%	1.0%

Figure 12 - Base Position Sensitivity Analysis Results

9.3 As can be seen the sensitivity analysis undertaken shows that if construction costs were to decrease by 5% and residential sales values were to increase by 5% on our current assumptions, the overall IRR would increase to 20.7%. This demonstrates that the base position is in fact potentially capable of being viable.

Scenario 1 – High School Costs Funded from Alternative Sources

- 9.4 The first alternative scenario we have tested is on the assumption that the high school costs (£10,632,876) which forms part of the section 106 costs are funded from alternative sources. As a result in this scenario the total section 106 costs assumed are £66,063,118 rather than £76,695,994 in the base position.
- 9.5 The results of this scenario are set out in **Figure 13** along with a sensitivity analysis of the results based on varying private residential sales values and construction costs by + / 5%.

Phase	Scenario 1 (IRR)	Sensitivity Upper Rate (IRR) (+5% Sales / -5% Costs)	Sensitivity Lower Rate (IRR) (-5% Sales / +5% Costs)
1	7.6%	18.5%	-3.1%
2	15.0%	29.9%	1.4%
3	14.4%	27.4%	2.3%
4	20.4%	33.4%	8.5%
Merged	12.7%	23.3%	2.8%

9.6 **Figure 13 - Scenario 1 Appraisal Results and Sensitivity Analysis**

9.7 The results shown in Figure 13, demonstrate that in the Scenario 1, the notional IDP scheme can be seen to generate an IRR of 12.7% over the whole development. However the sensitivity analysis undertaken shows that if construction costs were to decrease by 5% and residential sales values were to increase by 5% on our current assumptions, the overall IRR would increase to 23.3% This demonstrates that the Scenario 1 is potentially capable of being viable and generates a greater return than the base position scenario.

Scenario 2a and 2b – Increased Residential Density

- 9.8 Whilst it is understood that the proposed allocation is for 3500 units, as a sensitivity test, an alternative scenario has been assessed to reflect a notional increase in the residential density of the development across the IDP area, having regard to the proposed density of 32.5 dwellings per hectare (dph) presented by Hopkins Homes (in line with their planning application for the site).
- 9.9 In scenario 2 we have increased the density to 32.5 dph across the site. This

brings the total number of units to 3988 across the whole IDP area in this scenario.

- 9.10 Scenario 2a shows the impact of the increased density on the Base Position appraisal and Scenario 2b shows the impact of the increased density on the Scenario 1 appraisal.
- 9.11 **Figures 14 and 15** show the results scenario 2a and 2b, in addition to a sensitivity analysis based on varying private residential sales values and construction costs by + / 5%.

Figure 14 - Scenario 2a Results – Base Position with Increased Residential Density

Phase	Scenario 2a (IRR)	Sensitivity Upper Rate (IRR) (+5% Sales / -5% Costs)	Sensitivity Lower Rate (IRR) (-5% Sales / +5% Costs)
1	10.5%	22.0%	-0.7%
2	18.8%	34.8%	4.4%
3	16.1%	29.6%	3.6%
4	23.1%	36.7%	10.7%
Merged	15.1%	26.4%	4.7%

Figure 15 Scenario 2b Results – Scenario 1 with Increased Residential Density

Phase	Scenario 2b (IRR)	Sensitivity Upper Rate (IRR) (+5% Sales / -5% Costs)	Sensitivity Lower Rate (IRR) (-5% Sales / +5% Costs)
1	13.3%	25.0%	1.6%
2	22.4%	39.0%	7.4%
3	19.2%	33.3%	6.2%
4	23.1%	36.7%	10.7%
Merged	17.4%	29.3%	6.3%

9.12 The results shown in **Figures 14 and 15**, show that if the density of development is increased to 32.5 dph across the IDP area the scenario 2a generates an IRR of 15.1% and scenario 2b generates an IRR of 17.4%. This demonstrates that neither scenario reaches the target IRR of 20%. However the

sensitivity analysis undertaken shows that if construction costs were decrease by 5% and residential sales values were to increase by 5% on our current assumptions, the overall IRR in Scenario 2a would increase to 26.4% and to 29.3% in Scenario 2b. This demonstrates that Scenarios 2a and 2b are potentially capable of being viable and generate a greater return than the Base Position scenario and Scenario 1.

Scenario 3a and 3b – Revised Affordable Housing Tenure Split

- 9.13 The third alternative scenario we have tested is to change the affordable housing tenure split from 70 : 30 affordable rented to intermediate in the Base Position scenario to 50 : 50 affordable rented to intermediate tenure split in line with an alternative mix required by BCKLWN. We have applied this to the Base Position scenario and Scenario 1 appraisals in Scenario 3a and 3b respectively.
- 9.14 The results of this are shown in **Figures 16 and 17.**

Figure 16 - Scenario 3a Results – Base Position Scenario with Revised Affordable Housing Tenure Split

Phase	Scenario 4A (IRR)	Sensitivity Upper Rate (IRR) (+5% Sales / -5% Costs)	Sensitivity Lower Rate (IRR) (-5% Sales / +5% Costs)
1	5.7%	16.7%	-4.8%
2	12.6%	27.5%	0.8%
3	12.4%	25.4%	0.4%
4	18.8%	31.6%	7.2%
Merged	11.1%	21.5%	1.4%

Figure 17 - Scenario 3b Results – Scenario 1 with Revised Affordable Housing Tenure Split

Phase	Scenario 4B (IRR)	Sensitivity Upper Rate (IRR) (+5% Sales / -5% Costs)	Sensitivity Lower Rate (IRR) (-5% Sales / +5% Costs)
1	8.3%	19.5%	-2.6%
2	16.0%	31.5%	2.0%
3	15.4%	29.0%	2.9%
4	21.1%	34.3%	9.0%
Merged	13.4%	24.3%	3.3%

9.15 The results in **Figures 16 and 17**, show that if the affordable housing tenure split is revised to 50:50 social rented/intermediate across the IDP area the

Scenario 3a generates an IRR of 11.1% and Scenario 3b generates an IRR of 13.4%. This demonstrates that neither scenario reaches the target IRR of 20%.

- 9.16 However the sensitivity analysis undertaken shows that if construction costs were decrease by 5% and residential sales values were to increase by 5% on our current assumptions, the overall IRR in Scenario 3a would increase to 21.5% and to 24.3% in Scenario 3b.
- 9.17 This demonstrates that the Scenarios 3a and 3b are potentially capable of being viable and generate a greater return than the Base Position scenario and Scenario 1. However, the impact of changing the affordable housing tenure in this way can be seen to have a smaller impact on scheme viability than increasing the residential density as set out in Scenarios 2a and b.

10 Conclusions

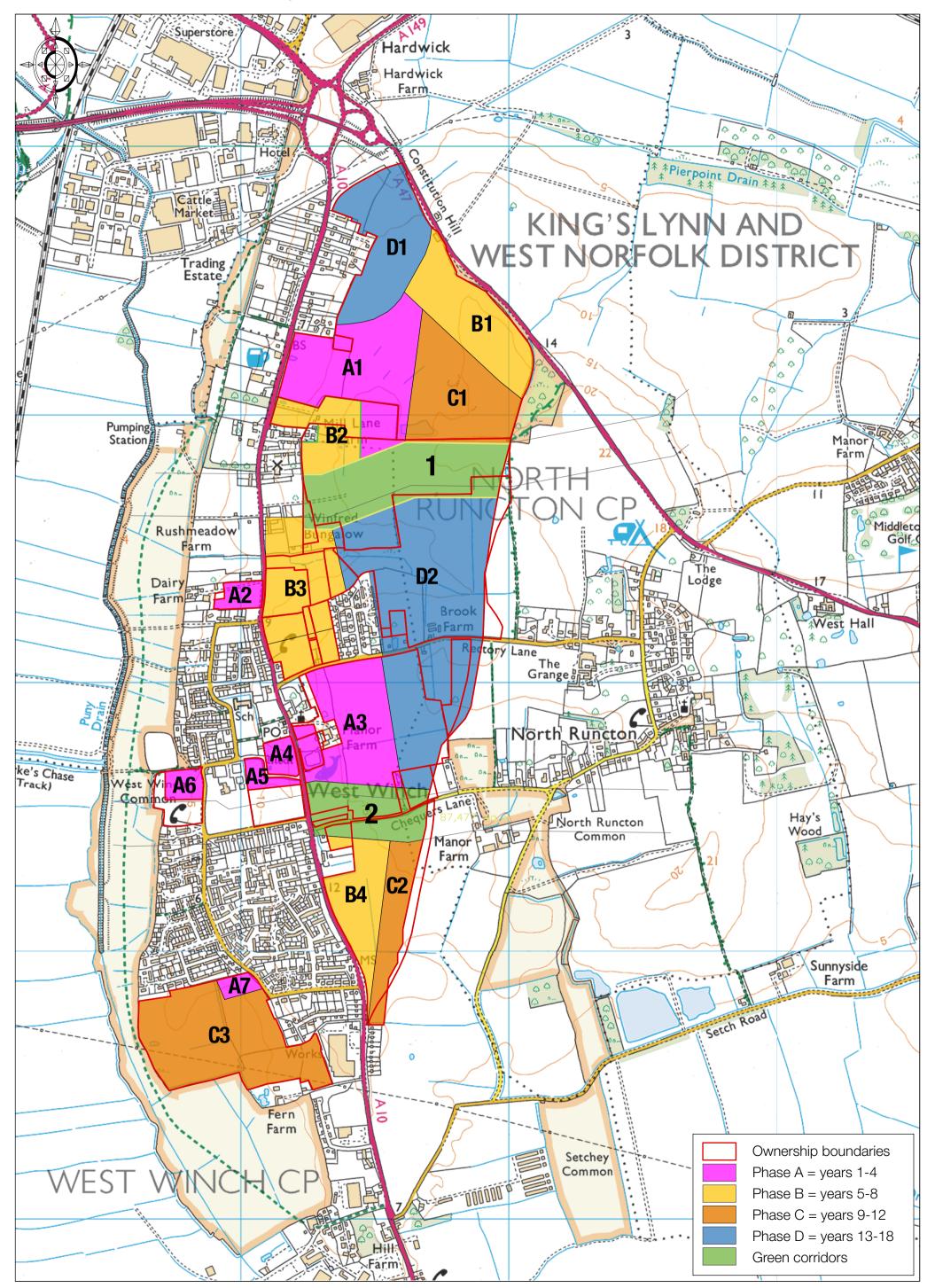
- 10.1 Gerald Eve has undertaken an indicative viability assessment of the SEKLGA which proposes the delivery of 3,500 residential units and associated infrastructure. The purpose of the headline assessment is to consider whether the proposed IDP is deliverable and viable.
- 10.2 In the absence of an agreed masterplan, a series of assumptions have been made in relation to the overall scheme as well as associated values and costs in delivering the proposed overall development. These assumptions have been considered and evidenced through the assessment of local, regional and national planning and development assumptions, such as the BCKLWN CIL viability assessment and BCIS costs.
- 10.3 On review, having regard to the timescales assumed, information available at this point in time, and sensitivity testing around the assumptions applied, Gerald Eve concludes that the overall proposed development is potentially capable of being viable while delivering the infrastructure and section 106 costs identified in this report. This has been demonstrated through stress testing the base viability assumptions through sensitivity analysis and also via various scenario tests.
- 10.4 It is recognised that the assessment is a reflection of overall proposed housing delivery for the SEKLGA, and that individual elements of the proposed scheme will need to be considered on a site specific basis. That said the SEKLGA has the best potential to be delivered if it is considered as a whole and in a consistent manner.



Appendix 1

Indicative IDP Area Phasing Plan

Indicative IDP Area Development Phasing





Ordnance Survey © Crown Copyright 2016. All rights reserved. Licence number 100022432. Plotted Scale - 1:12500@A3





Appendix 2(i)

Mott MacDonald 3500 Unit Scheme Infrastructure Cost and Trigger Point Assessment

	_	Cost Analysis for	M
	South East	st Kings Lynn Strategic Growth Area	MOTT MACDONALD
Project Title: South East Kings Lynn Strategic Growth Area Project No: 377873 Date: 20/07/2018		Revision: 18: Base Date: Q3 2018	
ntroduction			
This document is provided with the intent of identifying	g the potentia	I costs of the infrastructure associated with the South I	East Kings Lynn Strategic
Growth Area. The costs are broken down into the follo	wing 3 main	sections;	
1 Castian 100 Casta	Deces		
1 Section 106 Costs	Pages:	1 to 5	
2 Additional Neighbourhood Plan Requirements	Pages:	6	
 3 Developer Costs 4 Other Infrastructure 	Pages:	7 8	
Within each of these sections, the costs are further br	Pages:		
		,	
n.1 Access and Transport : Q3 2018			
n.2 Education Costs 2018			
n.3 Green Infrastructure Q3 2018			
n.4 Community Facilities Q3 2018			
n.5 Utilities Q3 2018			
n.6 Other Requirements Q3 2018			
An explanation of the contents of the columns which a	appear in the	sheets are as follows;	
"Total Cost" - The total calculated cost associated w	ith the item o	finfrastructure	
		s. This only appears in the Section 106 costs section, a	all other sections require full
contribution. Any blank (£0) values in the column, required	•	• • • •	
"Assumptions" - Any assumptions made during the		•	
"Trigger point for delivery/ Assummed Cost Phasi	•		
"Cost Source" - Where the associated costs have be	-		
	1		
NB where Optimism Bias (OB) is incuded in costs, a r	ate of 44% h	as been used.	

					Sou	Cost uth East Kings Ly	Analysis for nn Strategic Grov	vth Area		-	M MOTT MACDONALD
Projec Date: 2	:t No : 37787 20/07/2018		Growth Area						Revision: 18 Base Date: Q3 2018	ľ	
1.0 Se	ction 106 Co	osts (3500 homes)									
Ref.	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OE	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.1	Access and Transport										
1.1.1	Transport	Minor improvement to Hardwick for A10 arm							 As Hardwick Transport Strategy, but with updated unit costs. Ref 1.8 will require additional land costs. Which have not been 		See Appendix A
1.1.1.1			Single lane slip road	£ 547,30	1.90 £ 547,301.90	£ 380,070.76	£ 380,070.76	44%	included.	To be delivered by 2020 or by 400 dwellings	
1.1.2		A10 West Winch Bypss - Phase 1									
1.1.2.1			Intermediate roundabout	£ 136,16	2.01 £ 136,162.01	£ 94,556.95	£ 94,556.95	44%		To be delivered by 2020 or by 400 dwellings	
1.1.2.2			200m single carriageway	£ 547,30	1.90 £ 547,301.90	£ 380,070.76	£ 380,070.76	44%		uwenings	
1.1.2.3			A47 roundabout	£ 217.85	9.23 £ 217.859.23	£ 151.291.13	£ 151.291.13	44%	1		
1.1.3		A10 West Winch Bypss - Phase 2									4
1.1.3.1			2no at-grade roundabout on single carriageway	£ 272,32	4.03 £ 272,324.03	£ 189,113.91	£ 189,113.91	44%		To be delivered by 2026 or by 1600 dwellings	1
1.1.3.2			2300m single carriageway	£ 6,293,97	1.85 £ 6,293,971.85	£ 4,370,813.78	£ 4,370,813.78	44%			
1.1.4		A47 east of Hardwick dualled									1
1.1.4.1			800m length widening of existing carriageway	£ 2,189,20	7.60 £ 2,189,207.60	£ 1,520,283.06	£ 1,520,283.06	44%		To be delivered by 2026	1
1.1.5		Hardwick Interchange local									1
1.1.5.1		widening within junction	Widening parts of hardwick circulatory carriageway and exits	£ 1,368,25	4.75 £ 1,368,254.75	£ 950,176.91	£ 950,176.91	44%		To be delivered by 2026 or by 1600 dwellings	1
1.1.5.2			Upgrade to Traffic Signals	£ 101,68	0.00 £ 101,680.00	£ 70,611.11	£ 70,611.11	44%			
1.1.6 1.1.6.1		A47 roundabout retained but expanded	400m length slip road	£ 1,094,60	3.80 £ 1,094,603.80	£ 760,141.53	£ 760,141.53	44%		To be delivered by 2026	1
1.1.6.2			Dual carriageway roundabout	£ 217,85	9.23 £ 217,859.23	£ 151,291.13	£ 151,291.13	44%	1		
1.1.7		A47 flyover dualled								T	1
			1no new viaduct 175m long x 9m wide	£ 8,934,97	5.00 £ -	£ 6,204,843.75	£ -	44%		To be delivered by 2031/35	1
1.1.8 1.1.8.1		A149 dualled	800m length widening of existing					44%	-	To be delivered by 2031/35	-
1.1.8.2			carriageway Existing roundabout upgraded to dual	£ 2,189,20	7.60 £ -	£ 1,520,283.06	£ -	44%	-		
1.1.0.2			roundabout	£ 217,85	9.23 £ -	£ 151,291.13	£ -	44%			
1.1.9	1	Traffic Calming through West							- Allowance; Scope of traffic calming to be defined, nominal sum	1	
1.1.9.1		Winch Village	Nominal Sum	£ 538,19	4.44 £ 538,194.44	£ 538,194.44	£ 538,194.44	0%	of £0.5m as suggested in NCC Document. Assume safe crossings are allowed for in this figure. (Uplifted to 3Q2018).	To be commenced within 12 months of development	Nominal sum, taken from previous scheme.
1110	Access and	Bus Strategy		£ 538,19	+.++ z 538,194.44	538,194.44	2 538,194.44				
1.1.10	Transport	Dus Silaleyy									
1	cont		To be confirmed						 Contiributions will need to be sought, however bus service improvements are based on business case. 		
		Access and Transport T	otal	£ 24,866,76	2.56 £ 13,524,720.74	£ 17,433,033.42	£ 9,556,615.48				
1.2	Education										
1.2.1		Contributions towards new facilities									
1.2.1.1			West Winch Primary School Capacity Increase					0%	As advised by NCC Nursery assumed to be part of primary school provision	£100,000 on commencement of the development. £1,000,000 on occupation of 100 new dwellings. (6 months post commencement) Balance (£1,345,240) on occupation of 500 new dwellings percers the ourcell IDR pare (20)	Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
				£ 2,084,27	6.00 £ 2,084,276.00	£ 2,084,276.00	£ 2,084,276.00			across the overall IDP area (30 months post commencement	1

					Sout		Analysis for n Strategic Grow	rth Area			M MINTT MACDONALD
Projec	:t Title: Sout :t No : 37787: 20/07/2018	h East Kings Lynn Strategic 3	c Growth Area						Revision: 18 Base Date: Q3 2018	1	ACDONALD
1.0 Se		osts (3500 homes)									
Ref.	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.2.1.2			420 place primary school (2ha)	£ 6.900.000.00	£ 6.900.000.00	£ 6,900,000.00	£ 6,900,000.00	0%		 2ha School site purchased on commencement of the development Transfer of a fully serviced schoo site after occupation of the 100th dwelling (6 months post commencement) £250,000 on transfer of the school site (costs for design and planning) (6 months post commencement) £1,000,000 on occupation of the 200th dwelling, (12 months post commencement) £2,400,000 on occupation of the 400th dwelling, (24 months post commencement) Balance (£3,250,000) on occupation of the 600th dwelling. (36 months after commencement) 	
	Education cont	Contributions towards new facilities cont	315 place primary school (1.5ha, total 2ha safeguarded)	£ 5,150,000.00	£ 5,150,000.00	£ 5,150,000.00	£ 5,150,000.00	0%	As advised by NCC Nursery assumed to be part of primary school provision	 2 ha School site to be purchased 3 years prior to the point when 2000 units are estimated to be occupied (ie. 84 months post commencement) School to be completed by the point when 2000 units are occupied across the wider IDP area and cost apportioned across the previous 3 years (£5,150,000 apportioned between 84 and 120 post commencement) 	Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
1.2.1.4			Nursery provision High School Capacity 606 place Increase	£ -	£ -	£ -	£ -	0%	_	 To be paid by in four equal instalments on occupation of 400 dwellings of each respective phase. 	
1.2.1.6			Sixth Form Capacity 60 place Increase	£ 1,141,740.00	,	£ 1,141,740.00	£ 1,141,740.00	0%		 To be paid by in four equal instalments on occupation of 400 dwellings within each respective phase. 	
1.3	Green	Education Total		£ 25,908,892.00	£ 25,908,892.00	£ 25,908,892.00	£ 25,908,892.00				
1.3.1 1.3.1.1	Green Infrastructure	Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities. Capital Costs.	Formal recreation facilities such as playing fields (10ha)	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	0%	50% of total open space area. Assume 20ha total	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Pro-rata from previous scheme
1.3.1.2 1.3.1.3 1.3.1.4			Play Areas (6ha) Allotments (0.6ha) Other green spaces (4ha)	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	0%	30% of total open space area from DM 16. Assume 20ha total 20% of total open space area. Assume 20ha total	4	
1.3.1.5		Neighbourhood parks, allotments	Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 355,169.01 £ 1,988,946.46	£ 355,169.01 £ 1,988,946.46	£ 355,169.01 £ 1,988,946.46	£ 355,169.01 £ 1,988,946.46	0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.		

					Sout		Analysis for nn Strategic Grov	vth Area			M MOTT MACDONALD
Projec	ct Title: Sout ct No: 377873 20/07/2018	h East Kings Lynn Strategic 3	Growth Area						Revision: 18 Base Date: Q3 2018		
1.0 Se	ction 106 Co	osts (3500 homes)									
Ref.	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.3.2.1		sports and play facilities. Maintainance Costs.	Formal recreation facilities such as playing fields (10ha)	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	0%			
1.3.2.2	Green Infrastructure cont	Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities.	Play Areas (6ha)	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	0%		 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	
1.3.2.3		Maintainance Costs cont	Allotments (0.6ha)	£ 20,407.77	£ 20,407.77	£ 20,407.77	£ 20,407.77	0%		delivered.	
1.3.2.4			Other green spaces (4ha)	£ 636,973.13	£ 636,973.13	£ 636,973.13	£ 636,973.13	0%			
1.3.2.5			Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 995,656.24	£ 995,656.24	£ 995,656.24	£ 995,656.24	0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.]	
1.3.2.6			Interim Habitat Mitigation Payment	£ 200,641.03	£ 200,641.03	£ 200,641.03	£ 200,641.03	0%	Nominal contribution of £50 per home, as required by SADMP, assume 3500 homes. (Uplifted to 3Q2018).		SADMP
		Green Infrastructure To	otal	£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69				
1.4	Community										
1.4.1	Facilities	Neighbourhood Centres									
1.4.1.1			Community Centre 1 (Assumed 1000m ²)	£ 2,447,133.76	£ 2,447,133.76	£ 2,008,841.15	£ 2,008,841.15	24%	 Assumed as one large community centre and 2 smaller community centres. The costs shown are the estimated physical build costs of the 	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	
1.4.1.2			Community Centre 2 (Assumed 500m ²) Community Centre 3 (Assumed	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%	centres.	delivered.	
-			500m ²)	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%			
1.4.1.4			Sports Centre (1500m2)	£ 3.105.575.59	£ 3.105.575.59	£ 2.504.496.44	£ 2,504,496,44	24%	Assumed 1500m2 sports halls (approx. 4 hall). However, this may change in detailed design. - The costs shown are the estimated physical build costs of the centres.		Sport England Facility Costs, April Revision 001, 2016
1.4.1.5			1no. MUGA Facilitiy (782m2)	£ 203,299.53	£ 203,299.53	£ 163,951.23	£ 163,951.23	24%	Taken from Sport England Guidance		
1.4.1.6				2 200,200.00	2 200,200.00	100,001.20	2 100,001.20	2470	- Land to be safeguarded only.	-	F+A Little Black Book (Q1 2011) mid-range a
			Health Centre	£ -		£ -					£1291.66/m ²
1.4.1.7			3no. Shops (Assumed 280m ²)	£ -		£ -			- Land to be safeguarded only.		
1.4.1.8								0%	 Taken as £244 per dwelling (assuming 3500 dwellings) as advised by BCKLWN. (Uplifted to 3Q2018). 		Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12
			NLIS library contributions	£ 979,128.21	£ 979,128.21	£ 979,128.21	£ 979,128.21				October 2016
		Community Facilities To	otal	£ 9,182,270.85	£ 9,182,270.85	£ 7,665,258.18	£ 7,665,258.18				
1.5	Utilities										
1.5.1		SADMP Fire Service Requirement						0%	Allowance for 1 hydrant per 50 homes (assuming 3500) and one additional hydrant per school and neighbourhood centre at £816		
1.5.2		Strategic SUDS Infrastructure	Fire hydrants Contributions	£ 70,167.03	£ 70,167.03	£ 70,167.03	£ 70,167.03		each. (Uplifted to 3Q2018).		2010001 2010
1.3.2		Gracyc GODG milasuuclule									

					Sou		Analysis for nn Strategic Grow	th Area		N	M MOTT MACDONALD
Projec	:t Title: Sou :t No : 37787 20/07/2018	ith East Kings Lynn Strategi 73	ic Growth Area						Revision: 18 Base Date: Q3 2018		
1.0 Se	ction 106 C	Costs (3500 homes)									
	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.5.2.1			Detention Basins; Capital Cost	£ 6,359,864.96	£ 6,359,864.96	£ 5,128,923.36	£ 5,128,923.36	24%	Allowance for detention basins which are to store a total of 78317.4m3 of water. Works to existing watercourses to be defined. Scope to be defined.	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Cost details taken from Environmental Agency Report SC080039/R9 (March 2015). Require volume of storage take
1.5.2.2			Detention Basins; 15year Maintainance Cost	£ 349,980.88	£ 349,980.88	£ 349,980.88	£ 349,980.88	0%			from: North Runcton and West Winch Surface Water Management Strategy (April 2014).
		Utilities Total		£ 6,780,012.88	£ 6,780,012.88	£ 5,549,071.27	£ 5,549,071.27				
	Total	I Cost of Strategic Infrastructure	(Contribution Portion)	£83,412	2,053.15	£76,69	5,993.62				
		Total Cost of Strategic Infr	rastructure	£94,754	4,094.98	£84,57	2,411.55				
• • •	All cost data has Cost data has I Optimism bias Development a Contributions for	been sourced from a combination of of 44% is taken for all standard civ and Supervision allowance of 10% i for section 106 costs have been tak		pinion based on past ex uilding costs. necessary to developm	xperience. ent and 0% for those a	s a direct cost to the dev		en derived with guidance	e from the Borough Council of King's Lynn and West Norfolk.		

Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes.

Disclaimer:

A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

					f	Analysis for				M M
Proje	ct Title: Sou ct No : 3778 20/07/2018			st Kin	gs Lyn	n Strategic	Growth Are	Revision: 18 Base Date: Q3 2018		MOTT MACDONALD
2.0 /	Additiona	l Neighbourhood Plan Re	equirements							
Ref	Infrastructure Theme	Item	Detail	Cost		Cost Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
2.1	Access and Transport									
2.1.1		Off-Site Improvements to Road Network							1	
2.1.1.1			Redevelopment of A10 between Chapel Lane and Long Lane	£		£-		Assume to be included in traffic calming, other upgrades not directly related to development.	In accordance with agreed phasing plan prior to the commencement of	
2.1.1.2	2		Provision for future dual use path connection to Bawsey Country Park	£	-	£-		This will tie into an new development footpath, therefore no contribution related to development.	development	
2.1.1.3	8		Dual use path connection to the village of Middleton	£	519,552.47	£ 519,552.47	0%	Allowance for new 3m pavement on A47 south of New Road (approx. 1.7km)		
2.1.1.4	Ļ		Safe Cycle and Pedestrian Crossing at Rectory Lane	£	103,412.81	£ 73,866.29	44%	Allowance for 2 Toucan Crossings		
2.1.1.5	ō		Safe Cycle and Pedestrian Crossing at Chequers Lane		103,412.81	£ 73,866.29	44%	Allowance for 2 Toucan Crossings		
		Access and	Transport	1	£726,378.08	£667,285.05	ō			
2.2	Education									
	Green	Educa	ation		£0.00	£0.00)			
2.3	Infrastructure									
2.3.1		New nature reserve (5ha)								
2.3.1.1			5ha fenced off nature reserve	£	-			Assumed land take implications only. Scope to be defined	1	
	1-	Green Infra	astructure		£0.00	£0.00				
2.4	Community Facilities	Existing community facilities								
2.4.1	1	Existing community raciilities	Upgrade existing community facilites	£				A need for this would need to be assessed. At this point it is assumed that the communities will be serviced by new facilities.		
		Community	y Facilities		£0.00	£0.00)	racinues.		
2.5	Other									
2.5.1	Requirements	Allowance for expansion to West Winch Church graveyard								
2.5.1.1	1	onalon glavoyara	Land safeguarded only	£	-			Assume land take only.		
		Other Req	uirements		£0.00	£0.00				
		Total Cost of Neighbo	urhood Infrastructure	1	£726,378.08	£667,285.05	5			
Notes/ 0	Comments									
• • • • • • •	Cost data has to Optimism bias of Development at Contributions for Potential traffic Where trigger potents	peen sourced from a combination of in-house of 44% is taken for all standard civil engineen nd Supervision allowance of 10% is assumed or section 106 costs have been taken as a 10 diversion works are not included in these esti soints for delivery have not been provided to N ate can vary dramatically depending on many		for those a constructio orfolk, they	on techniques y have been	s used during constru provided by Gerald I	uction. Eve and have been ir	ncluded in this schedule in order to provide information on th	e inputs being used for viability	

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

	Cost Analysis for South East Kings Lynn Strategic Growth Area South East Kings Lynn Strategic Growth Area										
Project Date: 2	: No : 37787 0/07/2018	3	ic Growth Area				Revision: 18 Base Date: Q3 2018				
3.0 De	eveloper	Costs		-							
	nfrastructure Theme	ltem	Detail	Cost	Cost Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source		
	Access and Fransport	On-site road network									
3.1.1			Neighbourhood Streets - Site Masterplan	£ 16,284,968.04	£ 16,284,968.04	0%	Estimate from masterplan drawing 1565/01 SK306. Allowance; 5151m neighbourhood streets, 795m village centre streets and 10370m lanes and home roads. These	Costs to be apportioned and phased across the IDP area outside of the Hopkins	See Appendix A		
3.1.1.2			Village Centre Streets - Site Masterplan		£ 2,175,525.06		have all been estimated as single carriageway all purpose road, and will be defined in detailed design stage. Scope to be defined.	Homes scheme only, on the basis of a cost per residential unit delivered.			
3.1.1.3 3.1.1.4			Lanes and Home Roads - Site Masterplan East to West Road - Hopkins Homes		£ 19,706,669.11 £ 2,227,214.68	44%	Estimate from Hopkins Homes Masterplan Drawing Allowance; East to west road: 1172m, Other Roads: 3982m	Costs to be apportioned and phased across the IDP area within the Hopkins Homes			
3.1.1.5			Hopkins Homes - Other Roads	£ 10,896,780.83		44%	These have all been estimated as single carriageway all purpose road, and will be defined in detailed design stage. Scope to be defined.	scheme only, on the basis of a cost per residential unit delivered.			
3.1.2		On site footpaths						O stata in ha anna d'anna i an d	E. A. Livia Dia d. D. al. (O)		
3.1.2.1			Cycle/ Shared use pathways associated with road network	£ 4,332,938.31	£ 3,094,955.93	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 6326m from hopkins homes masterplan Scope to be defined.	Costs to be apportioned and phased across the whole IDP area on the basis of a cost	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata		
3.1.2.2			2m footpath associated with road network	£ 4,626,306.14	£ 3,304,504.38	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 3982m from hopkins homes masterplan. Scope to be defined	per residential unit delivered	F+A Little Black Book (Q3 2010) mid-range at £87.69/m2. Pro rata		
3.1.3 3.1.3.1		Cycle Routes	Not associated with road network (3m wide)	£ 957,955.34	£ 684,253.81	44%	Allowance; 3613m at 3m wide	In accordance with agreed phasing plan prior to the commencement of development	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata		
		Ac	ccess and Transport	£70,859,266.36	£55,045,299.92	2					
		Total Cost of	f Neighbourhood Infrastructure	£70,859,266.36	£55,045,299.92			·	• •		

All cost data has been uplifted to a common base date to 3Q18 using BCIS Tender Price Indices to arrive at current prices.

Cost data has been sourced from a combination of in-house project data and professional opinion based on past experience.

Optimism bias of 44% is taken for all standard civil engineering works and for all standard building costs.

Development and Supervision allowance of 10% is assumed for all works.

Contributions for section 106 costs have been taken as a 100% contribution for those costs necessary to development and 0% for those as a direct cost to the development. This has been derived with guidance from the Borough Council of King's Lynn and West Norfolk.

Potential traffic diversion works are not included in these estimates, it is assumed that these will be defined by the phasing and construction techniques used during construction.

Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes.

Disclaimer:

A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

				Cost Analysis for			M M
			South East King	gs Lynn Strategic	Growth Area		
Projec Date: 2	t No : 37787 20/07/2018		egic Growth Area		Revision: 18 Base Date: Q3 2018		
3.0 C	ther Infra Infrastructure	astructure				Trigger Point for Delivery/	
Ref	Theme	Item	Detail	Cost	Assumptions	Assumed Cost Phasing	Costing Source
3.5 3.5.1	Utilities	UKPN					
3.5.1		UKPN			Figures from UKPN Pre-development Enquiry Budget	Costs to be apportioned and	Pre-development Enquiry
3.5.1.1			Contestable works	£ 1,091,603.05	Estimate	phased across the IDP area	Pre-development Enquiry
3.J.1.2						on the basis of a cost per residential unit delivered.	
			Non-contestable works	£ 10,916,030.53			
3.5.2 3.5.2.1		National Grid				Costs to be opportioned and	
3.5.2.1						 Costs to be apportioned and phased across the IDP area 	Pro-rata from previous
			Strategic improvements to gas supply	£ 2,567,097.81	Allowance in lieu of National Grid feasibility study	on the basis of a cost per residential unit delivered, from	scheme
3.5.2.2				f 1.637.404.58	This is a highly conservative estimate based on two crossing points with complex slab protection measures. This assumption does not allow for diversion works at both	the point of 300 units delivered onwards.	Due to lack of site information a nominal figure has been used based on
3.5.2.3			Protection works to H/P Line	£ 1,637,404.58	crossing points.	-	diverting the gas main Pro-rata from previous
			Infrastructure works	£ 574,096.42	Allowance; assume no offsite diversion works.		scheme
3.5.2.4			On-site trenching	£ 898,484.23	Allowance; scope to be defined		Pro-rata from previous scheme
3.5.3		Anglian Water					
3.5.3.1			Mains water distribution	£ 3,820,610.69	Allowance; £1000 per dwelling, assume no upgrades required in lieu of response from Anglian Water. Assume 3500 dwellings. Assume no offsite diversion works. (Uplifted to 302018).	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Pro-rata from previous scheme
3.5.3.2					Allowance in lieu of response from Anglian Water. Assume		
			Foul Sewer Connections	£ 3,109,459.65	no upgrades and no off site diversion works.		Pro-rata from previous scheme
			Utilities	£24,614,786.98			
3.6	Other						
5.0	Requirements						
			Other Requirements	£0.00			
		Total Cos	st of Neighbourhood Infrastructure	£24,614,786.98		<u> </u>	
lotes/ C	omments			·			
iability p Disclaime	Cost data has b Optimism bias o Development ar Contributions for Potential traffic o Where trigger po urposes. ar: A project estima	een sourced from a combination f 44% is taken for all standard ci id Supervision allowance of 10% section 106 costs have been tai diversion works are not included i pints for delivery have not been p	cen as a 100% contribution for those costs necessary to development a n these estimates, it is assumed that these will be defined by the phasi rovided to Mott MacDonald by the Borough Council of Kings Lynn and and on many factors such as procurement, technology and availability of the second	ience. and 0% for those as a direct cost ing and construction techniques us West Norfolk, they have been pro	sed during construction. vvided by Gerald Eve and have been included in this schedul	e in order to provide information	on the inputs being used for
	The high level e	stimated costs contained within th	is report are produced as an indication of costs only and it is recomme s that are incurred as a result of the use of this project data.	ended that a detailed estimate is u	ndertaken to obtain a more accurate picture of any proposed	d project cost.	



Appendix 2(ii)

Mott MacDonald 3988 Unit Scheme Infrastructure Cost and Trigger Point Assessment

	South Eas	Cost Analysis for t Kings Lynn Strategic Growth Area	M MOTT MACDONALD	
oject Title: South East Kings Lynn Strategic Growth Area oject No: 377873 te: 20/07/2018		Revision: 19: Base Date: Q3 2018	MACDONALD	
troduction				
is document is provided with the intent of identifying	g the potentia	I costs of the infrastructure associated with the South	East Kings Lynn Strategic	
rowth Area. The costs are broken down into the follo	owing 3 main	sections;		
Section 106 Costs	Pages:	1 to 5		
Additional Neighbourhood Plan Requirements	Pages:	6		
Developer Costs	Pages:	7		
Other Infrastructure	Pages:	8		
ithin each of these sections, the costs are further br	roken down as	s follows;		
1 Access and Transport : Q3 2018				
2 Education Costs 2018				
3 Green Infrastructure Q3 2018				
4 Community Facilities Q3 2018				
5 Utilities Q3 2018				
6 Other Requirements Q3 2018				
n explanation of the contents of the columns which a	appear in the	sheets are as follows;		
Fotal Cost " - The total calculated cost associated w	with the item o	finfrastructure		
		5. This only appears in the Section 106 costs section,	all other sections require full	
ontribution. Any blank (£0) values in the column, req	•		an other sections require full	
Assumptions" - Any assumptions made during the				
Frigger point for delivery/ Assummed Cost Phase	-			
Ingger point for delivery Assummed COSLEMAS	•	•		
Cost Source" - Where the associated costs have b	and brided tra			

					Sout		Analysis for n Strategic Grov	vth Area		-	M MINT MACDONALD
Projec Date: 2	t No: 37787 20/07/2018		c Growth Area						Revision: 19 Base Date: Q3 2018		
1.0 Se	ction 106 C	Costs									
Ref.	Infrastructure Theme	ltem	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.1	Access and		2 one		Contribution	Total Obst Thinbut OB	05		riounpiono	ooot i nubiilg	Cooking Course
1.1.1	Transport	Minor improvement to Hardwick							- As Hardwick Transport Strategy, but with updated unit costs.		See Appendix A
1.1.1		for A10 arm	Single lane slip road	£ 547,301.90	£ 547,301.90	£ 380,070.76	£ 380,070.76	44%	- Ref 1.8 will require additional land costs. Which have not been included.	To be delivered by 2020 or by 400 dwellings	
1.1.2		A10 West Winch Bypss - Phase 1		2 011,001100	2 011,001.00	2 000,010.10	2 000,010110				1
1.1.2.1			Intermediate roundabout	£ 136,162.01	£ 136,162.01	£ 94,556.95	£ 94,556.95	44%		To be delivered by 2020 or by 400	1
1.1.2.2			200m single carriageway	£ 547,301.90	£ 547,301.90	£ 380,070.76	£ 380,070.76	44%	7	dwellings	
1.1.2.3			A47 roundabout	£ 217,859.23	£ 217,859.23	£ 151,291.13	£ 151,291.13	44%	1		
1.1.3		A10 West Winch Bypss - Phase 2			,				1		1
1.1.3.1			2no at-grade roundabout on single carriageway	£ 272,324.03	£ 272,324.03	£ 189,113.91	£ 189,113.91	44%		To be delivered by 2026 or by 1600 dwellings)
1.1.3.2			2300m single carriageway	£ 6,293,971.85	£ 6,293,971.85	£ 4,370,813.78	£ 4,370,813.78	44%	7		
1.1.4		A47 east of Hardwick dualled							1		t
1.1.4.1			800m length widening of existing carriageway	£ 2,189,207.60	£ 2,189,207.60	£ 1,520,283.06	£ 1,520,283.06	44%	-	To be delivered by 2026	
1.1.5		Hardwick Interchange local]
1.1.5.1		widening within junction	Widening parts of hardwick circulatory carriageway and exits	£ 1,368,254.75	£ 1,368,254.75	£ 950,176.91	£ 950,176.91	44%		To be delivered by 2026 or by 1600 dwellings)
1.1.5.2			Upgrade to Traffic Signals	£ 101,680.00	£ 101,680.00	£ 70,611.11	£ 70,611.11	44%			1
1.1.6		A47 roundabout retained but expanded	400m length slip road		-				-	To be delivered by 2026	4
1.1.6.2			Dual carriageway roundabout	£ 1,094,603.80	£ 1,094,603.80	£ 760,141.53	£ 760,141.53	44%	_	To be delivered by 2020	
1.1.7		A47 flyover dualled	Buai camageway roundabout	£ 217,859.23	£ 217,859.23	£ 151,291.13	£ 151,291.13	44%	-		-
1.1.7.1		At hydrei ddaled	1no new viaduct 175m long x 9m wide				-	44%	-	To be delivered by 2031/35	4
1.1.8		A149 dualled		£ 8,934,975.00	£ -	£ 6,204,843.75	£ -	44%	-		4
1.1.8.1			800m length widening of existing					44%	-	To be delivered by 2031/35	4
1.1.8.2			carriageway Existing roundabout upgraded to dual	£ 2,189,207.60	£ -	£ 1,520,283.06	£ -	44%	_		
1.1.0.2			Existing roundabout upgraded to dual roundabout	£ 217,859.23	£ -	£ 151,291.13	£ -	44%			
1.1.9		Traffic Calming through West						1	- Allowance; Scope of traffic calming to be defined, nominal sum		
1.1.9.1		Winch Village	Nominal Sum	£ 538,194.44	£ 538,194.44	£ 538,194.44	£ 538,194.44	0%	of £0.5m as suggested in NCC Document. Assume safe crossings are allowed for in this figure. (Uplifted to 3Q2018).	To be commenced within 12 months of development	Nominal sum, taken from previous scheme.
1.1.10	Access and	Bus Strategy					,				
1.1.10.	Transport										
1	cont		To be confirmed						- Contiributions will need to be sought, however bus service improvements are based on business case.		
	E durati	Access and Transport T	otal	£ 24,866,762.56	£ 13,524,720.74	£ 17,433,033.42	£ 9,556,615.48				
1.2	Education	Contributions towards new			+	1					
1.2.1		facilities									
1.2.1.1			West Winch Primary School Capacity Increase					0%	 As advised by NCC Nursery assumed to be part of primary school provision 	• £100,000 on commencement of the development. • £1,000,000 on occupation of 100 new dwellings. (6 months post commencement) • Balance (£1,345,240) on occupation of 500 new dwellings across the overall IDP area (30	Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
				£ 2,445,240.00	£ 2,445,240.00	£ 2,445,240.00	£ 2,445,240.00			months post commencement	1

					Sout		Analysis for nn Strategic Grow	vth Area			M MINT MACDONALD
Projec Date:	:t No : 37787 20/07/2018		ic Growth Area						Revision: 19 Base Date: Q3 2018		
1.0 Se	ction 106 C	osts			-						
Ref.	Infrastructure Theme	ltem	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.2.1.2			420 place primary school (2ha)	£ 6,900,000.00	£ 6,900,000.00	£ 6,900,000.00	£ 6,900,000.00	0%		2ha School site purchased on commencement of the development • Transfer of a fully serviced school site after occupation of the 100th welling (6 months post commencement) • £250,000 on transfer of the school site (costs for design and planning) (6 months post commencement) • £1,000,000 on occupation of the 200th dwelling. (12 months post commencement) • £2,400,000 on occupation of the 400th dwelling. (24 months post commencement) • £2,400,000 on occupation of the 400th dwelling. (24 months post commencement) • Balance (25,250,000) on occupation of the 600th dwelling. (36 months after commencement)	
1.2.1.3	Education cont	Contributions towards new facilities cont	315 place primary school (1.5ha, total 2ha safeguarded)	£ 6,900,000.00	£ 6,900,000.00	£ 6,900,000.00	£ 6,900,000.00	0%	As advised by NCC Nursery assumed to be part of primary school provision	 2 ha School site to be purchased 3 years prior to the point when 2000 units are estimated to be occupied (ie. 84 months post commencement) School to be completed by the point when 2000 units are occupied across the wider IDP are and cost apportioned across the previous 3 years (£5,150,000 apportioned between 84 and 120 post commencement) 	Potential County Cour Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
1.2.1.4			Nursery provision	£ -	£-	£ -	£ -				1
1.2.1.5			High School Capacity 640 place Increase	£ 11,229,440.00	£ 11,229,440.00	£ 11,229,440.00	£ 11,229,440.00	0%		To be paid by in four equal instalments on occupation of 400 dwellings of each respective phase	-
1.2.1.6			Sixth Form Capacity 63 place Increase	£ 1,198,827.00	£ 1,198,827.00			0%		To be paid by in four equal instalments on occupation of 400 dwellings within each respective phase.	
	0	Education Total		£ 28,673,507.00	£ 28,673,507.00	£ 28,673,507.00	£ 28,673,507.00				
1.3	Green Infrastructure	Neighbourhood parks, allotments								Costs to be apportioned and	Pro-rata from previous
1.3.1		& open spaces with eaquipped								phased across the IDP area on the	
1.3.1.1		sports and play facilities. Capital Costs.	Formal recreation facilities such as playing fields (10ha)	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	0%	50% of total open space area. Assume 20ha total	basis of a cost per residential unit delivered.	
1.3.1.2			Play Areas (6ha)	£ 12,786,084.40	£ 12,786,084.40	£ 12,786,084.40	£ 12,786,084.40	0%	30% of total open space area from DM 16. Assume 20ha total	Ţ	
1.3.1.3			Allotments (0.6ha)	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 104,774.86	0%		+	
1.3.1.4			Other green spaces (4ha)	£ 355,169.01	£ 355,169.01	£ 355,169.01	£ 355,169.01	0%	20% of total open space area. Assume 20ha total	1	
1.3.1.5		Najabbaurbaad aarka alleteensia	Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 1,988,946.46	£ 1,988,946.46			0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.		
1.3.2		Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities. Maintainance Costs.	Formal recreation facilities such as playing fields (10ha)	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	0%		+	

					Sout		Analysis for nn Strategic Grow	vth Area		M	И _{10тт} М
Projec	t Title: Sou t No: 37787 20/07/2018	th East Kings Lynn Strateg '3	jic Growth Area				-		Revision: 19 Base Date: Q3 2018	N	IACDONALD
1.0 Se	ction 106 C	osts									
Ref.	Infrastructure Theme	ltem	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.3.2.2	Green Infrastructure cont	Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities.	Play Areas (6ha)	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	0%		 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	Pro-rata from previous scheme
1.3.2.3		Maintainance Costs cont	Allotments (0.6ha)	£ 20,407.77	£ 20,407.77	£ 20,407.77	£ 20,407.77	0%		delivered.	
1.3.2.4			Other green spaces (4ha)	£ 636,973.13	£ 636,973.13	£ 636,973.13	£ 636,973.13	0%		1	
1.3.2.5			Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 995,656.24	£ 995,656.24	£ 995,656.24	£ 995,656.24	0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.		
1.3.2.6			Interim Habitat Mitigation Payment	£ 200,641.03	£ 200,641.03	£ 200,641.03	£ 200,641.03	0%	Nominal contribution of £50 per home, as required by SADMP, assume 3988 homes. (Uplifted to 3Q2018).		SADMP
		Green Infrastructure T	otal	£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69				
1.4	Community										
1.4.1	Facilities	Neighbourhood Centres									
1.4.1.1			Community Centre 1 (Assumed 1000m ²)	£ 2,447,133.76	£ 2,447,133.76	£ 2,008,841.15	£ 2,008,841.15	24%	 Assumed as one large community centre and 2 smaller community centres. The costs shown are the estimated physical build costs of the 	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	F+A Little Black Book (Q1 2011) mid-range at 1277.77/m ²
1.4.1.2			Community Centre 2 (Assumed 500m ²) Community Centre 3 (Assumed	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%	centres.	delivered.	
			500m ²)	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%			
1.4.1.4			Sports Centre (1500m2)	£ 3,105,575.59	£ 3,105,575.59	£ 2,504,496.44	£ 2,504,496.44	24%	Assumed 1500m2 sports halls (approx. 4 hall). However, this may change in detailed design. - The costs shown are the estimated physical build costs of the centres.	-	Sport England Facility Costs, April Revision 001, 2016
1.4.1.5			1no. MUGA Facilitiy (782m2)	£ 203.299.53	£ 203.299.53			24%	Taken from Sport England Guidance		
1.4.1.6									- Land to be safeguarded only.	-	F+A Little Black Book (Q1 2011) mid-range at £1291.66/m ²
			Health Centre	£ -		£ -				1	
1.4.1.7			3no. Shops (Assumed 280m ²)	£ -		£ -			- Land to be safeguarded only.	<u> </u>	
1.4.1.8			NLIS library contributions	£ 979,128.21	£ 979,128.21	£ 979,128.21	£ 979,128.21	0%	 Taken as £244 per dwelling (assuming 3988 dwellings) as advised by BCKLWN. (Uplifted to 3Q2018). 		Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016
		Community Facilities T	otal	£ 9,182,270.85	£ 9,182,270.85	£ 7,665,258.18	£ 7,665,258.18				
1.5	Utilities										
1.5.1		SADMP Fire Service Requirement									
1.5.1.1		Stelasis CUDS 1/1000	Fire hydrants Contributions	£ 70,167.03	£ 70,167.03	£ 70,167.03	£ 70,167.03	0%	Allowance for 1 hydrant per 50 homes (taken as 4000 (rounded up to the nearest 50)homes) and one additional hydrant per school and neighbourhood centre at £816 each. (Uplifted to 3Q2018).	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016
1.5.2		Strategic SUDS Infrastructure									
1.5.2.1			Detention Basins; Capital Cost	£ 6,359,864.96	£ 6,359,864.96	£ 5,128,923.36	£ 5,128,923.36	24%	Allowance for detention basins which are to store a total of 78317.4m3 of water. Works to existing watercoursed to be defined. Scope to be defined.	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Cost details taken from Environmental Agency Report SC080039/R9 (March 2015). Required
1.5.2.2			Detention Basins; 15year Maintainance Cost	£ 349,980.88	£ 349,980.88	£ 349,980.88	£ 349,980.88	24%			volume of storage taken from: North Runcton and West Winch Surface Water Management Strategy (April 2014).

						Sout		Analysis for In Strategic Grow	vth Area			
Proj	ect Title: Sou ect No: 3778 : 20/07/2018	73	gs Lynn Strategic	Growth Area						Revision: 19 Base Date: Q3 2018	"	
1.0 \$	Section 106 C	Costs										
Ref.	Infrastructure Theme	ltem		Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
			Utilities Total		£ 6,780,012.88	£ 6,780,012.88	£ 5,549,071.27	£ 5,549,071.27				
	Total	I Cost of Strateg	gic Infrastructure (Co	ontribution Portion)	£86,176	668.15	£79,460	0,608.62				
		Total Co	st of Strategic Infras	tructure	£97,518	3,709.98						
√otes	/ Comments											
	Cost data has b Optimism bias o Development a Contributions fo Potential traffic	been sourced fro of 44% is taken f and Supervision a or strategic Hard diversion works	om a combination of in for all standard civil en allowance of 10% is as wick infrastructure imp are not included in the		binion based on past exp of buildings as recomment he percentage of traffic f vill be defined by the pha	erience. nded by HM Treasury si low presented in the Ha sing and construction te	rdwick Transport Strateg	gy. This was taken as the		e morning and evening peak flows identified.		

ate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an A project

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost. Mott MacDonald accepts no liability for any losses that are incurred as a result of the use of this project data.

			South Eas	st Kii		or		Growth Area	a			
Projec	t Title: S t No: 37 20/07/20		gic Growth Area						Revision: 19 Base Date: Q3 2018			
2.0 Ad	ditional	Neighbourhood Plan Req	uirements							-		
Ref Th	frastructure neme	ltem	Detail	Cost		Cost	Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source	
	ccess and ansport											
2.1.1		Off-Site Improvements to Road Network										
2.1.1.1			Redevelopment of A10 between Chapel Lane and Long Lane	£		£			Assume to be included in traffic calming, other upgrades not directly related to development.	In accordance with agreed phasing plan prior to the commencement of		
2.1.1.2			Provision for future dual use path connection to Bawsey Country Park	£	-	£	-		This will tie into an new development footpath, therefore no contribution related to development.	development		
2.1.1.3			Dual use path connection to the village of Middleton	£	519,552.47	£	519,552.47	0%	Allowance for new 3m pavement on A47 south of New Road (approx. 1.7km)			
2.1.1.4			Safe Cycle and Pedestrian Crossing at Rectory Lane	£	103,412.81	£	73,866.29	44%	Allowance for 2 Toucan Crossings			
2.1.1.5			Safe Cycle and Pedestrian Crossing at Chequers Lane	£	103,412.81	£	73,866.29	44%	Allowance for 2 Toucan Crossings			
		Access and	Transport		£726,378.08		£667,285.05					
2.2 Ed	ducation											
		Educat	ion		£0.00		£0.00					
Gr	reen	Euuca			20.00		20.00					
2.3 Inf	frastructure	New nature reserve (5ha)		_								
2.3.1			5ha fenced off nature reserve	6		f			Assumed land take implications only. Scope to be defined			
2.3.1.1		Green Infras		L	£0.00	L	£0.00		Assumed land take implications only. Scope to be defined			
Co	ommunity	Gieen inna			20.00		20.00					
	acilities	Existing community facilities										
2.4.1.1			Upgrade existing community facilites	£	-	£	-		A need for this would need to be assessed. At this point it is assumed that the communities will be serviced by new facilities.			
		Community	Facilities		£0.00		£0.00					
	ther equirements											
2.5.1		Allowance for expansion to West Winch Church graveyard										
2.5.1.1			Land safeguarded only	£	-	£	-		Assume land take only.			
		Other Requ	irements		£0.00		£0.00					
		Total Cost of Neighbou	rhood Infrastructure		£726,378.08		£667,285.05					
lotes/ Com	nments											

to 3Q18 using BCIS Tel Cost data has been sourced from a combination of in-house project data and professional opinion based on past experience.

Optimism bias of 44% is taken for all standard civil engineering works and 24% for all standard buildings as recommended by HM Treasury supplementary green book guidance.

Development and Supervision allowance of 10% is assumed for all works.

Contributions for section 106 costs have been taken as a 100% contribution for those costs necessary to development and 0% for those as a direct cost to the development. This has been derived with guidance from the Borough Council of King's Lynn and West Norfolk.

Potential traffic diversion works are not included in these estimates, it is assumed that these will be defined by the phasing and construction techniques used during construction. Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes. Disclaimer:

A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be sed when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

	Cost Analysis for South East Kings Lynn Strategic Growth Area												
Proje Date:	ect Title: S ect No: 37 : 20/07/20 eveloper	7873 018	ynn Strategic Growth Area				Revision: 19 Base Date: Q3 2018						
Ref	Infrastructure Theme	Item	Detail	Cost	Cost Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source				
3.1 3.1.1 3.1.1.1	Access and Transport	On-site road network	Neighbourhood Streets - Site Masterplan	-			Estimate from masterplan drawing 1565/01 SK306. Allowance; 5151m neighbourhood streets, 795m village	Costs to be apportioned and phased across the IDP area	See Appendix A				
3.1.1.2			Village Centre Streets - Site Masterplan Lanes and Home Roads - Site Masterplan	£ 16,284,968.04 £ 2,175,525.06 £ 28,377,603.52	£ 16,284,968.04 £ 2,175,525.06 £ 19,706,669,11		centre streets and 10370m lanes and home roads. These have all been estimated as single carriageway all purpose road, and will be defined in detailed design stage. Scope to be defined.	outside of the Hopkins Homes scheme only, on the basis of a cost per residential unit delivered.					
3.1.1.4			East to West Road - Hopkins Homes		£ 2,227,214.68	44%	Estimate from Hopkins Homes Masterplan Drawing Allowance; East to west road: 1172m, Other Roads: 3982m These have all been estimated as single carriageway all	Costs to be apportioned and phased across the IDP area within the Hopkins Homes scheme only, on the basis of	•				
3.1.1.5			Hopkins Homes - Other Roads	£ 10,896,780.83	£ 7,567,208.91	44%	purpose road, and will be defined in detailed design stage. Scope to be defined.	a cost per residential unit delivered.					
3.1.2 3.1.2.1		On site footpaths	Cycle/ Shared use pathways associated with road network	£ 4,332,938.31	£ 3,094,955.93	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 6326m from hopkins homes masterplan Scope to be defined.	area on the basis of a cost	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata				
3.1.2.2		Cycle Routes	2m footpath associated with road network	£ 4,626,306.14	£ 3,304,504.38	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 3982m from hopkins homes masterplan. Scope to be defined	per residential unit delivered	F+A Little Black Book (Q3 2010) mid-range at £87.69/m2. Pro rata				
3.1.3.1			Not associated with road network (3m wide)	£ 957,955.34	£ 684,253.81	44%	Allowance; 3613m at 3m wide	In accordance with agreed phasing plan prior to the commencement of development	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata				
			Access and Transport	£70,859,266.36	£55,045,299.92								
	omments	Total C	Cost of Neighbourhood Infrastructure	£70,859,266.36	£55,045,299.92	2							

All cost data has been uplifted to a common base date to 3Q18 using BCIS Tender Price Indices to arrive at current prices.

Cost data has been sourced from a combination of in-house project data and professional opinion based on past experience.

Optimism bias of 44% is taken for all standard civil engineering works and 24% for all standard buildings as recommended by HM Treasury supplementary green book guidance.

Development and Supervision allowance of 10% is assumed for all works.

Contributions for section 106 costs have been taken as a 100% contribution for those costs necessary to development and 0% for those as a direct cost to the development. This has been derived with guidance from the Borough Council of King's Lynn and West Norfolk.

Potential traffic diversion works are not included in these estimates, it is assumed that these will be defined by the phasing and construction techniques used during construction.

• Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes. Disclaimer:

• A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

				Analysis for			M M			
			South East Kings Lyn	n Strategic	Growth Area					
Proje Date:	ect No: 37 20/07/20	018	egic Growth Area		Revision: 19 Base Date: Q3 2018					
3.0 O		astructure								
Ref	Infrastructure Theme	Item	Detail	Cost	Assumptions	Assumed Cost Phasing	Costing Source			
3.5	Utilities									
3.5.1		UKPN								
3.5.1.1			Contestable works	£ 1,091,603.05	Figures from UKPN Pre-development Enquiry Budget	Costs to be apportioned and	Pre-development Enquiry			
3.5.1.2					Estimate	phased across the IDP area on the basis of a cost per residential unit delivered.				
			Non-contestable works	£ 10.916.030.53		residential unit delivered.				
3.5.2		National Grid		2 10,010,000.00						
3.5.2.1						Costs to be apportioned and				
			Strategic improvements to gas supply	£ 2,567,097.81	Allowance in lieu of National Grid feasibility study	phased across the IDP area on the basis of a cost per	Pro-rata from previous scheme			
3.5.2.2					This is a highly conservative estimate based on two crossing points with complex slab protection measures.	residential unit delivered, from the point of 300 units delivered onwards.	Due to lack of site information a nominal figure			
			Protection works to H/P Line	£ 1,637,404.58	This assumption does not allow for diversion works at both crossing points.	ļ	has been used based on diverting the gas main			
3.5.2.3			Infrastructure works	£ 574,096.42	Allowance; assume no offsite diversion works.	ļ	Pro-rata from previous scheme			
3.5.2.4			On-site trenching	£ 898,484.23	Allowance; scope to be defined		Pro-rata from previous scheme			
3.5.3		Anglian Water								
3.5.3.1			Mains water distribution	£ 3,820,610.69	Allowance; £1000 per dwelling, assume no upgrades required in lieu of response from Anglian Water. Assume 3988 dwellings. Assume no offsite diversion works. (Uplifted to 3Q2018).	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Pro-rata from previous scheme			
3.5.3.2			Foul Sewer Connections	£ 3,109,459.65	Allowance in lieu of response from Anglian Water. Assume no upgrades and no off site diversion works.		Pro-rata from previous scheme			
		Utilit	ies	£24,614,786.98						
3.6	Other									
	Requirements									
		Other Req	Luirements	£0.00						
		Total Cost of Neighbo	urhood Infrastructure	£24,614,786.98						
Notes/ C	omments									
 All cost data has been uplifted to a common base date to 3Q18 using BCIS Tender Price Indices to arrive at current prices. Cost data has been sourced from a combination of in-house project data and professional optimine based on past experience. Optimism bias of 44% is taken for all standard civil engineering works and 24% for all standard buildings as recommended by HM Treasury supplementary green book guidance. Development and Supervision allowance of 10% is assumed for all works. Contributions for section 106 costs have been taken as a 100% contribution for those costs necessary to development and 0% for those as a direct cost to the development. This has been derived with guidance from the Borough Council of King's Lynn and West Norfolk. Potential traffic diversion works are not included in these estimates, it is assumed for all be defined by the phasing and construction techniques used during construction. Where trigger points for delivery have not been provided to Mott MacDonaid by the Borough Council of King's Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for 										
met on si •	er: A project estima ite therefore care The high level es	e should be exercised when using an estimate stimated costs contained within this report are	actors such as procurement, technology and availability of resources produced as an indication of costs only and it is recommended that a urred as a result of the use of this project data.			-	does not reflect the condition			



Appendix 3

Matrix of Indicative Base Position Appraisal Inputs

Appendix 3 - Draft South East Kings Lynn Infrastructure Delivery Plan Appraisal Inputs and Assumptions 22 08 2018

NameNoteNoteNoteBarProblem StateProblem StateProblem StateProblem StateBarProblem StateProblem StateProblem StateProblem StateBar <th></th> <th></th> <th></th> <th>GERALDEVE</th>				GERALD EVE
NameSectorSect				
	Appraisal Item	Input	Source	Notes
	Land Area Inputs			
NameNoteNoteNoteNoteControlControControlControlControlC	Total Site Area	c.192 ha (474 acres)	Gerald Eve	Based on the area of the IDP agreed with BCKLWN as shown in Gerald Eve IDP plan area
	Residential Developable Land	c.122.6 ha (303 acres)	Gerald Eve	Based on the area of the IDP agreed with BCKLWN as shown in Gerald Eve IDP plan area
NameAnother<	Employment Land	c. 1.0 ha (2.5 acres)	Gerald Eve	Based on the area of the IDP agreed with BCKLWN as shown in Gerald Eve IDP plan area
	Local Centres Area	c.0.36 ha (0.9 acres)	Gerald Eve	Based on the area of the IDP agreed with BCKLWN as shown in Gerald Eve IDP plan area
	Educational Use Land	c. 4.0 ha (9.9 acres)	Gerald Eve	Based on the area of the IDP agreed with BCKLWN as shown in Gerald Eve IDP plan area
	Green Space	c 48.0 hs (119 scree)	Gerald Eve	Bread on the strat of the IDP extends with BCKI WN as shown in Center Fue IDP elem strat
Number of the section of the secti	oreen opace			
AControlCo	Surplus land	c. 16.0 ha (39.5 acres)	Gerald Eve	Based on the area of the IDP agreed with BCKLWN as shown in Gerald Eve IDP plan area
AnderHaracePart of the second	Residential Market Inputs			
CharacterConstruction	Units	up to 3,500		Based on BCKLWN policy CS09 of Core Strategy and E2 of SADMP
	Delivery Velocity	Up to 200 dwellings per annum	Gerald Eve	
NameNetwork with a start of the s			Carold Euro	
Child and and a start of the start of t	Density		Geraid Eve	Based on larger oweninghouses onsite using available and area within LUP-, (hopkins mones planning application has density of 32-3 owenings per nectare).
Name of the sectorName of the se		4.4%		
Name NotesName <b< td=""><td></td><td></td><td></td><td></td></b<>				
Name of Section o				
Number of the section of the sect	4 bed house size (Private Market Sale)	1,350 sq ft (125 sq m)	Gerald Eve	Gerald Eve assumption based on average size of comparable residential schemes
All Action 1985 (Control of the second sec	5+ bed house size (Private Market Sale) Private Market Sale Indexation on original 2017 value	1,510 sq ft (140 sq m) 5,60%		Gerald Eve assumption based on average size of comparable residential schemes Cerald Eve assumption based on the Land Registru Index providing from Augury 2017 to May 2018.
Note of the section	1 bed flat capital value (Private Market Sale)		Gerald Eve	Gerald Eve assessment based on comparable market evidence
Mathematical Barterial Barterial Barterial Barterial Barterial Barterial Barterial Barterial Barterial 				
NameBase<	3 bed house capital value (Private Market Sale)	Original 2017 value £212.000. grown to £223.872		Gerald Eve assessment based on comparable market evidence
Number of the section of the secti	5+ bed house capital value (Private Market Sale) 5+ bed house capital value (Private Market Sale)			
Band and any	Affordable Housing Inputs			
Add with a stateControlControControlControlCon	Affordable Housing Percentage Base Assumption	20% Affordable Housing	Gerald Eve	
All And All All All All All All All All All Al	1 bed flat size (Affordable Unit)	50 sq m (538 sq ft)	BCKLWN	BCKLWN assumption - confirmed
ad part of a start of a sta				
Link bank back is a strainLink back is a strainLink back is a strainLink back 	3 bed 5 person house size (Affordable Unit)	93 sq m (1,001 sq ft)	BCKLWN	BCKLWN assumption - confirmed
Hardbard Hardbardbard Hardbardbardbardbardbardbardbardbardbardb		102 sq m (1,098 sq ft)		
IntroductionNotaContoContoInternational Conto<	5 bed house size (Affordable Unit)	119 sq m (1,281 sq ft)	BCKLWN	BCKLWN assumption - confirmed
Interfact of the sector of				BCALLY assumption - continued BCALLY assumption - continued
International process of the second secon				
Half and with a strand with	2 bed flat capital value (Affordable Rent)	£84,370	Gerald Eve	Gerald Eve affordable housing team assessment - Affordable Rent per week (80% of market rent) - adjusted and confirmed by BCKLWN
Independence<				
Bit of addition of a second	3 bed 6 person house capital value (Affordable Rent)	£99,543	Gerald Eve	Gerald Eve affordable housing team assessment - Affordable Rent per week (80% of market rent) - adjusted and confirmed by BCKLWN
Non-standard International and the standard in the standar	5 bed rental value (Affordable Rent)			
NameAnd Add Add Add Add Add Add Add Add Add	2 bed bungalow capital value (Affordable Rent)		Gerald Eve	Gerald Eve affordable housing team assessment - Affordable Rent per week (80% of market rent) - adjusted and confirmed by BCKLWN
Non-state <td>3 bed bullgalow capital value (Altordable Rent)</td> <td></td> <td>Geraid Eve</td> <td></td>	3 bed bullgalow capital value (Altordable Rent)		Geraid Eve	
Bit Model and Bits American StrainSet De Constraint StrainSet De Constraint Straint	Affordable Housing Capitalisation and Deductions	Debts, 2% Repairs and Maintenance inc Sinking Fund. Rental stream to be capitalised at 5.75%.		Gerald Eve affordable housing team assessment - industry standard assumption
Bit Model and Bits American StrainSet De Constraint StrainSet De Constraint Straint				
Solitional statusControlCont				
Initiation and the set of th	2 bed flat capital value (Intermediate)	Original 2017 value £84,000, grown to £88,704	Gerald Eve	Gerald Eve affordable housing team assessment - Intermediate Rent element at £155.62
Indeference of a set of				
Index and submark inclusionsOne of a state of a	3 bed 6 person house capital value (Intermediate)	Original 2017 value £132.000. grown to £139.392	Gerald Eve	Gerald Eve affordable housing team assessment - Intermediate Rent element at £155.62
International sectorControl of the sector of t	5 bed house capital value (Intermediate)	Original 2017 value £182,00, grown to £192,192		Gerald Eve affordable housing team assessment - Intermediate Rent element at £155.62
Bandbard Standsmith Sector Standsmith Sector Standsmith CH E				
Answer of the second		4% management deductions from the gross rent. This includes a 1% management fee, 3% Voids & Bad Debts		
Out NameDescriptionDescriptionDescriptionDescriptionConstruction11111Construction111<	1			Gerald Eve affordable housing team assessment - industry standard assumption
Out NameDescriptionDescriptionDescriptionDescriptionConstruction11111Construction111<	Intermediate Capitalisation and Deductions	to cover the rental element paid on the unsold equity. Rental stream to be capitalised at 5%.		
Answer Answer Answer Standard Scalage Carl Scalage Carl <td></td> <td>to cover the rental element paid on the unsold equity. Rental stream to be capitalised at 5%.</td> <td></td> <td></td>		to cover the rental element paid on the unsold equity. Rental stream to be capitalised at 5%.		
Same Bode Same Bode Same Bode Same Bode Sade Sade Sade Sade Sade Sade Sade Sa	Other Income Inputs Loan (Not used at present)	3.5% over a 25 year period to be incuded in the model at a later date		
Same Bode Same Bode Same Bode Same Bode Sade Sade Sade Sade Sade Sade Sade Sa	Other Income Inputs Loan (Not used at present)	3.5% over a 25 year period to be incuded in the model at a later date		
Contract Proceeding Contract Contract Restruction status of the contract of the con	Other Income Inputs Loan (Not used at present)	3.5% over a 25 year period to be incuded in the model at a later date		
Nachon (Nachon	Other Income Inputs Laan (Not used at present) Commercial Land Income Cost Inputs	3.5% over a 25 year period to be incuded in the model at a later date E100,000 less 2.5% disposal fees	Gerald Eve RICS Building Cost Information Service (BCIS) /	Assumption of selling serviced plot of commercial land for the local centre to be developed. Income reflects land value less purchasers costs.
Control Control Control Control Sand a flat backbad instances on same Control Control <td< td=""><td>Other Income Inputs Laan (Not used at present) Commercial Land Income Cost Inputs Residential Build Cost Contingency</td><td>3.5% over a 25 year period to be incuded in the model at a later date E100,000 tess 2.5% disposal tees Houses: £108.85 psf (£1,172psm): Flats: £129.30 psf (£1,382 psm) 5%</td><td>Gerald Eve RICS Building Cost Information Service (BCIS) / Gerald Eve Gerald Eve</td><td>Assumption of selling serviced plot of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumed BCIS median build cost for West Norfolk Estate Housing (E/sq m) plus an uplift of 10% for External Works and 3% for abnormals - See base cost breakdown Assumption based on an appropriate contingency for a project at an early stage in its development.</td></td<>	Other Income Inputs Laan (Not used at present) Commercial Land Income Cost Inputs Residential Build Cost Contingency	3.5% over a 25 year period to be incuded in the model at a later date E100,000 tess 2.5% disposal tees Houses: £108.85 psf (£1,172psm): Flats: £129.30 psf (£1,382 psm) 5%	Gerald Eve RICS Building Cost Information Service (BCIS) / Gerald Eve Gerald Eve	Assumption of selling serviced plot of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumed BCIS median build cost for West Norfolk Estate Housing (E/sq m) plus an uplift of 10% for External Works and 3% for abnormals - See base cost breakdown Assumption based on an appropriate contingency for a project at an early stage in its development.
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Standard industry assumption Assessment Information Process Based Information Process Information P</td></td<></td></td<>	3.5% over a 25 year period to be incuded in the model at a later date E100,000 less 2.5% disposal fees Houses: £108.85 pdf (£1,172psm): Flats: £129.30 pdf (£1,382 psm) 5% E83.412.053 E70.459.20 E24.614,787 E20.84 E20.84 E80.412.053 E70.439.20 E24.614,787 E20.84 E20.84 <td< td=""><td>Geraid Eve RICS Building Cost Information Service (BCIS) / Geraid Eve Geraid Eve Mott MacDonald Geraid Eve Geraid Eve</td><td>Assumption of selling serviced plot of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumed BCIS median build cost for West Northk. Estate Housing (Eliga m) plus an uptift of 10% for Estemal Works and 3% for abnormals - See base cost breakdown Assumption hased on an appropriate contingency for a policit at an early state in is development. Based on Nort MacDonald infrastructure cost estimate Based on Nort MacDonald Information State Cost provided by Nort MacDonald For Information:Comparison based on total cost provided by Mort MacDonald For Information:Comparison based on total cost provided by Mort MacDonald Cost and the Dot North MacDonald Information on the Information Information Comparison Inform Cost Cost North MacDonald For Information:Comparison Based on North MacDonald Information Inform Cost Based Information Information Cost assumption Inform Cost North MacDonald Information Information Informer Information Cost assumption Cost assumption Assessment Information Process Based Information Process Market norm on smaller schemes range from 1-1.25%, Have suggested 0.8% due to size and estimated value of this scheme. Standard industry assumption Assessment Information Process Based Information Process Information P</td></td<>	Geraid Eve RICS Building Cost Information Service (BCIS) / Geraid Eve Geraid Eve Mott MacDonald Geraid Eve	Assumption of selling serviced plot of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumed BCIS median build cost for West Northk. Estate Housing (Eliga m) plus an uptift of 10% for Estemal Works and 3% for abnormals - See base cost breakdown Assumption hased on an appropriate contingency for a policit at an early state in is development. 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Commercial Land Value Growth Yr1+ 2.1% Bank of England Bank of England Consumer Price Index (CPI) Projections as at August 2018 (4 year predicted average)	Other Income Inputs Coam (Not used at present) Commercial Land Income Cost Inputs Residential Build Cost Contingency Strategic Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure costs per residential unit Professional Fees Cit. Stramp Duty Land Tax Residential Disposal Fees Developer cost of sale to RP RP Purchase cost Land disposal fee for commerical serviced land Land Value Inputs Residential Developable Land Value Education Developable Land Value Education Developable Land Value Genen Infrastructure Land Value Guernet Developable Land Value Guernet Value Guernet Developable Land Value Education Devel	3.5% over a 25 year period to be incuded in the model at a later date E100,000 less 2.5% disposal fees Houses: £108.85 pdf (£1.172psm): Flats: £129.30 pdf (£1.382 psm) 5% E83.412.053 E70.879.226 E24.614,787 E23.832 E208 E20.45 E70.439.26 E20.45 E70.333 5% Constanced within Strategic and Neighbourhood Infrastructure 7.00% 1.8% (agent, legal & VAT) 5% (HCA model does not reflect latest legislation) 1% marketing, 1% agent, 0.5% legal 3% Assumed £100k per developable acre (c £247k per ha) Assumed £100k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha) Assumed £10k per developable acre (c £247k per ha)	Geraid Eve RICS Building Cost Information Service (BCIS) / Geraid Eve Geraid Eve Geraid Eve Moti MacDonald Geraid Eve	Assumption of selling serviced pixt of commercial land for the local centre to be developed. Income reflects land value tess purchasers costs. Cost assumption as percental confinements of a protect at a neithy state in in development. Based on Mat MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Mat MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Mat MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Mat MacDonald Infrastructure cost estimate Based on Mat MacDonald Infrastructure cost estimate Based on Mat MacDonald Infrastructure cost estimate For Infrastructure cost estimate For Infrastructure cost estimate For Infrastructure cost estimate Based on Mat MacDonald Infrastructure cost estimate For Reserver Infrastructure estimate For Infrastructure cost estimate For Reserver Infrastructure estimate For Reserver Infrastructure estimate For Reserver Infrastructure estimate For Reserver Infrastructure For Reserver Infrastructure estimate For Reserver Infrastructure estimate For Reserver Infrastructure estinate estimate
Commercial Land Value Growth Yr1+ 2.1% Bank of England Bank of England Consumer Price Index (CPI) Projections as at August 2018 (4 year predicted average)	Other Income Inputs Commorcial Land Income Cost Monical Evaluation Cost Inputs Residential Build Cost Contingency Strategic Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure costs per residential unit Professional Fees Cit. Stramp Duty Land Tax Residential Disposal Fees Developer cost G als to RP RP Purchase cost Land Value Inputs Residential Developable Land Value Education Developable Land Value Green Infrastructure Land Value	3.5% over a 25 year period to be incuded in the model at a later date E100,000 less 2.5% disposal fees Houses: £108.85 pdf (£1,172psm): Flats: £129.30 pdf (£1,392 psm) 5% E83.412.053 E726.378 E70.859.226 E24.614.787 E23.832 E208 E20.45 E70.439.246 E20.45 E20.45 E20.45 E20.45 E20.45 E20.45 E20.45 E20.45 E20.46 E20.45 E20.45 E20.44 E20.45 E20.45 E20.45 E20.45 E20.45 E20.45 E20.45 E20.45 E20.45 E20.46 E20.47 E20.45 E20.46 E20.47 E20.47 E20.48 E20.41 E20.41 E20.41 E20.41 <td>Geraid Eve</td> <td>Assumption of selling serviced pits of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumption appropriate continement of a provided tain early states in its development. Based on Most MacDonald infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate For Infrastructure cost estimate Based on Infrastructure cost estimate For Infrastructure For Infra</td>	Geraid Eve	Assumption of selling serviced pits of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumption appropriate continement of a provided tain early states in its development. Based on Most MacDonald infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate Based on Most MacDonald Infrastructure cost estimate For Infrastructure cost estimate For Infrastructure cost estimate Based on Infrastructure cost estimate For Infrastructure For Infra
	Offer Income Inputs Commorcial Land Income Commorcial Land Income Cost Inputs Residential Build Cost Contingency Strategic Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Other Infrastructure Developer Infrastructure costs per residential unit Developer Infrastructure costs per residential unit Developer Infrastructure costs per residential unit Professional Fees Citl. Strate Duty Land Tax Strate Duty Land Tax Residential Disposal Fees Developer cost of sale to RP RP Purchase cost Land Value Inputs Residential Developable Land Value Education Developable Land Value Education Developable Land Value Green Infrastructure Land Value Green Infrastructure Land Value Green Infrastructure Land Value Guard Developable Land Value Green Infrastructure Land Value Guard Orowich Ass	3.5% over a 25 year period to be incuded in the model at a later date 2100,000 less 2.5% disposal less Houses: £108.85 pdf (£1.172psm): Flats: £129.30 pdf (£1.392 psm) 5% E83.412.053 E70.879.226 E22.4161.4787 E23.832 E20.826 E20.245 E70.439.206 E20.245 E70.439.206 E20.245 E70.439.208 E20.245 E70.433.2 E20.414.787 E20.414.787 E20.414.787 E20.424 E20.424 E20.424 E20.424 E20.424 E20.435 E70.433 B% EXempt area EContained within Stratecic and Neighbourhood Infrastructure C00% J.8% (appl. does not reflect latest legislation) 1% marketing, 1% agent, 0.5% legal 3% of Altfordable Housing GDV 1% marketing, 1% agent, 0.5% legal Assumed E100K per developable acre (c.E247K per ha) Assumed E100K per developable acre (c.E247K per ha	Geraid Eve Geraid	Assumption of salling serviced plot of commercial land for the local centre to be developed. Income reflects land value less purchases costs. Cost assumption based on an appropriate continuency for a protect at an early stope in 16 development. Based on Met MacDonald infrastructure cost estimate For infrastructure cost estimate Based on Met MacDonald in Met MacDonald For infrastructure cost estimate Based on Met MacDonald in Met MacDonald For infrastructure cost estimate Based on Met MacDonald in Met MacDonald For infrastructure cost estimate Based on Met MacDonald in Met MacDonald For infrastructure cost estimate Based on Met MacDonald Infrastructure cost estimate Based on Met MacDonald For infrastructure cost estimate Based on Met MacDonald Dependent on conscluctors of a development. This infrast but macDonald Dependent on conscluctors of a development. This meds to be updated to reflect current legislation - Analing meeting with HCA to address the port. Standard industry assumption HCA DAT mode deves not all user for the Donale to be updated to reflect current legislation - Analing meeting with HCA to address the port. Standard industry assumption Assessment of typical developable acres and supported with market evidence Assessment of typical developable acres and supported with market evidence Assessment of typical developable acres and supported with market evidence Assessment of typical developable acre and supported with market e
Residential Land Value Growth Yr1 1.5%; Yr2 2.5%; Yr3 3.5 %; Yr4 2.5%; Yr5 + 2.7%. Knight Frank Knight Frank UK Residential Market Forecast for East of England (as at May 2018). Average for next 5 years less 0.5% to allow for notional effect of cost inflation.	Offer Income Inputs Commorcial Land Income Commorcial Land Income Cost Inputs Residential Build Cost Contingency Strategic Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Other Infrastructure Developer Infrastructure costs per residential unit Developer Infrastructure costs per residential unit Developer Infrastructure costs per residential unit Professional Fees Citl. Strate Duty Land Tax Strate Duty Land Tax Residential Disposal Fees Developer cost of sale to RP RP Purchase cost Land Value Inputs Residential Developable Land Value Education Developable Land Value Education Developable Land Value Center Developable Land Value Green Infrastructure Land Value Green Infrastructure Land Value Green Infrastructure Land Value Guard Value Growth Assumtions Construction Cost	3.5% over a 25 year period to be incuded in the model at a later date 2100,000 less 2.5% disposal less Houses: £108.85 pdf (£1.172psm); Flats: £129.30 pdf (£1.392 psm) 5% E33.412.053 E70.639.226 E22.4161.4787 E23.832 E20.83 E20.845 E70.439.266 E20.436 E70.439.276 E20.436 E20.246 E20.246 E20.246 E20.246 E20.246 E20.245 E20.246 E20.246 E20.246 E20.246 E20.246 E20.246 E20.246 E20.246 E20.245 E20.246 E20.247 E20.246	Geraid Eve Ceraid Eve RtCS Building Cost Information Service (BCIS) / Geraid Eve Mott MacDorald Geraid Eve Geraid Ev	Assumption of selling serviced plot of commercial land for the local centre to be developed. Income reflects land value less purchases costs.
	Offer Income Inputs Commercial Land Income Construction Land Income Cost Inputs Residential Build Cost Contingency Strategic Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure Developer Infrastructure costs per residential unit Professional Fees Cit Strate Cost Strate Duty Land Tax Residential Disposal Fees Developer cost of sale to RP RP Purchase cost Land Value Inputs Residential Developable Land Value Education Developable Land Value Education Developable Land Value Green Infrastructure Land Value <t< td=""><td>3.5% over a 25 year period to be incuded in the model at a later date 2100,000 less 2.5% disposal less Houses: £108.85 pdf (£1.172psm): Flats: £129.30 pdf (£1.382 psm) 5% E83.412.053 2728.378 2728.378 2728.378 2728.378 270.359.226 224.614.787 223.832 2208 220.245 270.333 8% EN+: Exempt area EContained within Stratecic and Neighbourhood Infrastructure 7.00% 1.8% (apont, leaal & VAT) 5% (HCA model does not reflect latest legislation) 1% marketina, 1% agent, 0.5% legal 3% of Affordable Housing GDV 1% marketina, 1% agent, 0.5% legal Assumed £100k per developable acre (c.£247k per ha) Assumed £100k per developable acre (c.£247k per ha) Assumed £10k per developable acre (c.£247k per ha) Assumed £10k</td><td>Geraid Eve</td><td>Assumption of selling serviced pits of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumption of selling serviced pits of commercial land for the local centre to be developed. Income reflects and 2% for abnormals - See loses cost breakdown Sealer on MM Machonal infrastructure cost estimate Based on MM Machonal infrastructure cost estimate Assumption infrastructure cost estimate Based on Machonal infrastructure cost estimate Assumption infrastructure cost estimate Based on Ma</td></t<>	3.5% over a 25 year period to be incuded in the model at a later date 2100,000 less 2.5% disposal less Houses: £108.85 pdf (£1.172psm): Flats: £129.30 pdf (£1.382 psm) 5% E83.412.053 2728.378 2728.378 2728.378 2728.378 270.359.226 224.614.787 223.832 2208 220.245 270.333 8% EN+: Exempt area EContained within Stratecic and Neighbourhood Infrastructure 7.00% 1.8% (apont, leaal & VAT) 5% (HCA model does not reflect latest legislation) 1% marketina, 1% agent, 0.5% legal 3% of Affordable Housing GDV 1% marketina, 1% agent, 0.5% legal Assumed £100k per developable acre (c.£247k per ha) Assumed £100k per developable acre (c.£247k per ha) Assumed £10k	Geraid Eve	Assumption of selling serviced pits of commercial land for the local centre to be developed. Income reflects land value less purchasers costs. Cost assumption of selling serviced pits of commercial land for the local centre to be developed. Income reflects and 2% for abnormals - See loses cost breakdown Sealer on MM Machonal infrastructure cost estimate Based on MM Machonal infrastructure cost estimate Assumption infrastructure cost estimate Based on Machonal infrastructure cost estimate Assumption infrastructure cost estimate Based on Ma



Appendix 4 (i)

Base Position Development Appraisal with Sensitivity Analysis

West Winch Urban Extension Kings Lynn Scenario 3

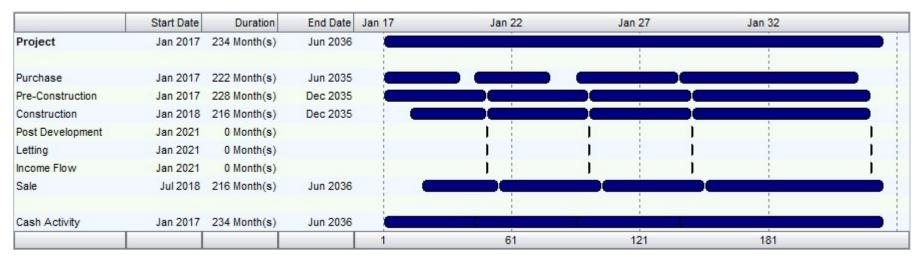
> Development Appraisal Gerald Eve LLP 14 August 2018

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West Winch Urban Extension Kings Lynn Scenario 3

Project TimescaleProject Start DateJan 2017Project End DateJun 2036Project Duration (Inc Exit Period)234 months

All Phases



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West Winch Urban Extension Kings Lynn Scenario 3

1. Phase 1

	Start Date	Duration	End Date	Jan 17	Jan 22	Jan 27	Jan 32	
Project	Jan 2017	234 Month(s)	Jun 2036					
Purchase	Jan 2017	36 Month(s)	Dec 2019					
Pre-Construction	Jan 2017	48 Month(s)	Dec 2020					
Construction	Jan 2018	36 Month(s)	Dec 2020				1	-
Post Development	Jan 2021	0 Month(s)			1			
Letting	Jan 2021	0 Month(s)			1			
Income Flow	Jan 2021	0 Month(s)						
Sale	Jul 2018	36 Month(s)	Jun 2021	_				
								-
Cash Activity	Jan 2017	54 Month(s)	Jun 2021					
				1	61	121	181	

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West Winch Urban Extension Kings Lynn Scenario 3

2. Phase 2

	Start Date	Duration	End Date	Jan 17	Jan 22	Jan 27	Jan 32	
Project	Jan 2017	234 Month(s)	Jun 2036	i i				
Purchase	Jul 2020	36 Month(s)	Jun 2023					
Pre-Construction	Jan 2021	48 Month(s)	Dec 2024				1	
Construction	Jan 2021	48 Month(s)	Dec 2024					
Post Development	Jan 2025	0 Month(s)				1		
Letting	Jan 2025	0 Month(s)				1		
Income Flow	Jan 2025	0 Month(s)						
Sale	Jul 2021	48 Month(s)	Jun 2025				1	
								-
Cash Activity	Jul 2020	60 Month(s)	Jun 2025					
				1	61	121	181	

Project: O:\Planning\JOBS\G Files\G6000's\G6668 - King's Lynn\August 2018 Updates\Updated Appraisals\Kings Lynn Scenario 3.wcfx ARGUS Developer Version: 7.50.001

Report Date: 14/08/2018

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West Winch Urban Extension Kings Lynn Scenario 3

3. Phase 3

	Start Date	Duration	End Date	Jan 17	Jan 22	Jan 27	Jan 32	
Project	Jan 2017	234 Month(s)	Jun 2036	i and				
							1	
Purchase	Jul 2024	48 Month(s)	Jun 2028					
Pre-Construction	Jan 2025	48 Month(s)	Dec 2028					i i
Construction	Jan 2025	48 Month(s)	Dec 2028				1	
Post Development	Jan 2029	0 Month(s)				1		
Letting	Jan 2029	0 Month(s)				1		
Income Flow	Jan 2029	0 Month(s)				1		
Sale	Jul 2025	48 Month(s)	Jun 2029					1
								-
Cash Activity	Jul 2024	60 Month(s)	Jun 2029					
				1	61	121	181	

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West Winch Urban Extension Kings Lynn Scenario 3

4. Phase 4

	Start Date	Duration	End Date	Jan 17	Jan 22	Jan 27	Jan 32	
Project	Jan 2017	234 Month(s)	Jun 2036	1				
		.,				1	1	
Purchase	Jul 2028	84 Month(s)	Jun 2035	1	1			
Pre-Construction	Jan 2029	84 Month(s)	Dec 2035				1	
Construction	Jan 2029	84 Month(s)	Dec 2035				1	
Post Development	Jan 2036	0 Month(s)				-		
							1	
Letting	Jan 2036	0 Month(s)			1		1	
Income Flow	Jan 2036	0 Month(s)		1	1	1	1	1
Sale	Jul 2029	84 Month(s)	Jun 2036				· ·	
		.,						
Cash Activity	Jul 2028	96 Month(s)	Jun 2036					
				1	61	121	181	

Project: O:\Planning\JOBS\G Files\G6000's\G6668 - King's Lynn\August 2018 Updates\Updated Appraisals\Kings Lynn Scenario 3.wcfx ARGUS Developer Version: 7.50.001

Report Date: 14/08/2018

APPRAISAL SUMMARY

West Winch Urban Extension Kings Lynn Scenario 3

Summary Appraisal for Merged Phases 1 2 3 4

Currency in £

REVENUE							
Sales Valuation	Units	ft²	Rate ft ²	Unit Price	Gross Sales	Adjustment	Net Sales
‡ 1 bedroom flat - private market sale	47	22,654	190.61	91,872	4,317,984	365,247	4,683,231
‡ 2 bedroom flat - private market sale	17	11,135	193.47	126,720	2,154,240	182,222	2,336,462
‡ 2 bedroom house - private market sale	171	119,700	238.35	166,848	28,531,008	2,413,367	30,944,375
‡ 3 bedroom house - private market sale	278	264,100	235.65	223,872	62,236,416	5,264,423	67,500,839
‡ 4 bedroom house - private market sale	99	133,650	219.02	295,680	29,272,320	2,476,073	31,748,393
‡ 5 bedroom house - private market sale	28	42,280	204.91	309,408	8,663,424	732,817	9,396,241
‡ 2 bedroom flat - intermediate	6	4,518	117.80	88,704	532,224	45,020	577,244
‡ 2 bedroom house - intermediate	20	17,220	125.10	107,712	2,154,240	182,222	2,336,462
‡ 2 bedroom bungalow - intermediate	2	1,506	137.43	103,488	206,976	17,508	224,484
‡ 3 bedroom (5 person) house - intermediate	10	10,010	122.37	122,496	1,224,960	103,616	1,328,576
‡ 3 bedroom (6 person) house - intermediate	5	5,490	126.95	139,392	696,960	58,954	755,914
‡ 3 bedroom bungalow - intermediate	2	1,852	127.72	118,272	236,544	20,009	256,553
‡ 4 bedroom house - intermediate	3	3,714	148.42	183,744	551,232	46,627	597,859
‡ 1 bedroom flat - affordable rent	9	4,842	129.54	69,695	627,255	60,869	688,124
‡ 2 bedroom flat - affordable rent	12	9,036	112.05	84,370	1,012,440	98,247	1,110,687
‡ 2 bedroom house - affordable rent	40	34,440	97.99	84,370	3,374,800	327,489	3,702,289
‡ 2 bedroom bungalow - affordable rent	3	2,259	94.75	71,349	214,047	20,771	234,818
‡ 3 bedroom house (5 person) - affordable rent	25	25,025	99.44	99,543	2,488,575	241,490	2,730,065
‡ 3 bedroom house (6 person) - affordable rent	13	14,274	90.66	99,543	1,294,059	125,575	1,419,634
‡ 3 bedroom bungalow - affordable rent	4	3,704	107.50	99,543	398,172	38,638	436,810
‡ 4 bedroom house - affordable rent	2	2,476	100.74	124,720	249,440	24,206	273,646
‡ 5 bedroom house - affordable rent	4	5,124	98.19	125,779	503,116	48,822	551,938
‡ 1 bedroom flat - private market sale	47	22,654	190.61	91,872	4,317,984	926,368	5,244,352
‡ 2 bedroom flat - private market sale	17	11,135	193.47	126,720	2,154,240	462,165	2,616,405
‡ 2 bedroom house - private market sale	171	119,700	238.35	166,848	28,531,008	6,120,964	34,651,972
‡ 3 bedroom house - private market sale	278	264,100	235.65	223,872	62,236,416	13,352,029	75,588,445
‡ 4 bedroom house - private market sale	99	133,650	219.02	295,680	29,272,320	6,280,003	35,552,323
‡ 5 bedroom house - private market sale	28	42,280	204.91	309,408	8,663,436	1,858,630	10,522,065
‡ 2 bedroom flat - intermediate	6	4,518	117.80	88,704	532,224	114,182	646,406
‡ 2 bedroom house - intermediate	20	17,220	125.10	107,712	2,154,240	462,165	2,616,405

Project: O:\Planning\JOBS\G Files\G6000's\G6668 - King's Lynn\August 2018 Updates\Updated Appraisals\Kings Lynn Scenario 3.wcfx ARGUS Developer Version: 7.50.001

APPRAISAL SUMMARY

West Winch Urban Extension Kings Lynn Scenario 3 [‡] 2 bedroom bungalow - intermediate 2 1.506 137.43 103.488 206,976 44,404 251.380 ± 3 bedroom (5 person) house - intermediate 10 122.37 122,496 10,010 1,224,960 262,800 1,487,760 ± 3 bedroom (6 person) house - intermediate 5 5,490 126.95 139.392 696,960 149,524 846.484 ‡ 3 bedroom bungalow - intermediate 2 287.291 127.72 118.272 236.544 50.747 1.852 ± 4 bedroom house - intermediate 3 3,714 148.42 183.744 551,232 118,260 669.492 ± 1 bedroom flat - affordable rent 9 4.842 129.54 69.695 627.255 138.293 765.548 ± 2 bedroom flat - affordable rent 12 9,036 112.05 84,370 1,012,440 223,215 1,235,655 ‡ 2 bedroom house - affordable rent 40 34,440 97.99 84.370 3.374.800 744.052 4,118,852 2 bedroom bungalow - affordable rent 3 2,259 47,192 94.75 71,349 214,047 261,239 ± 3 bedroom house (5 person) - affordable rent 25 25,025 99.44 99,543 2,488,575 548,663 3,037,238 ± 3 bedroom house (6 person) - affordable rent 13 99.543 14,274 90.66 1.294.059 285.305 1.579.364 ‡ 3 bedroom bungalow - affordable rent 4 3,704 107.50 99.543 398.172 87.786 485.958 ± 4 bedroom house - affordable rent 2 2.476 100.74 124.720 249.440 54.995 304.435 ± 5 bedroom house - affordable rent 4 5,124 98.19 125,779 503,116 110,923 614,039 ‡ 1 bedroom flat - private market sale 47 22.654 190.61 91.872 4.317.984 1.630.163 5,948,147 2 bedroom flat - private market sale 17 813,287 11,135 193.47 126,720 2,154,240 2,967,527 ‡ 2 bedroom house - private market sale 171 119,700 238.35 166.848 28,531,008 10,771,272 39,302,280 278 ± 3 bedroom house - private market sale 264.100 235.65 223.872 62.236.416 23,496,028 85.732.444 ± 4 bedroom house - private market sale 99 133,650 295,680 29,272,320 40,323,459 219.02 11,051,139 ± 5 bedroom house - private market sale 28 42.280 204.91 309.408 8.663.424 3.270.691 11.934.115 ± 2 bedroom flat - intermediate 6 4,518 117.80 88,704 532,224 200,930 733,154 20 17.220 125.10 107.712 2.154.240 813.287 2.967.527 2 78,139 285,115 1,506 137.43 103,488 206,976

± 2 bedroom house - intermediate [‡] 2 bedroom bungalow - intermediate ± 3 bedroom (5 person) house - intermediate 10 10,010 122.37 122,496 1,224,960 462,457 1,687,417 ± 3 bedroom (6 person) house - intermediate 5 5,490 126.95 139.392 696.960 263.122 960.082 ‡ 3 bedroom bungalow - intermediate 2 236,544 89,302 325,846 1,852 127.72 118,272 ± 4 bedroom house - intermediate 3 3.714 148.42 183.744 551.232 208.106 759.338 ± 1 bedroom flat - affordable rent 9 4.842 129.54 69.695 627.255 238.398 865.653 ± 2 bedroom flat - affordable rent 12 9.036 112.05 84.370 1,012,440 384.794 1,397,234 ± 2 bedroom house - affordable rent 40 34.440 97.99 84.370 3.374.800 1.282.645 4.657.445 [‡] 2 bedroom bungalow - affordable rent 3 2,259 94.75 71,349 214,047 81,352 295,399 25 ± 3 bedroom house (5 person) - affordable rent 25,025 99.44 99.543 2.488.575 945,822 3,434,397 ± 3 bedroom house (6 person) - affordable rent 13 1,294,059 1,785,886 14,274 90.66 99,543 491,827 ± 3 bedroom bungalow - affordable rent 4 3,704 107.50 99,543 398,172 151,331 549,503 ± 4 bedroom house - affordable rent 2 2.476 100.74 124.720 249.440 94.804 344.244 ± 5 bedroom house - affordable rent 4 5.124 98.19 125.779 503.116 191.217 694.333 ± 1 bedroom flat - private market sale 65 31.330 190.61 91.872 5.971.680 3.823.844 9.795.524

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APPRAISAL SUMMARY

West Winch Urban Extension Kings Lynn Scenario 3 [‡] 2 bedroom flat - private market sale 24 15,720 193.47 126,720 3,041,280 1,947,422 4,988,702 2 bedroom house - private market sale 235 238.35 64,316,143 164,500 166,848 39,209,280 25,106,863 ‡ 3 bedroom house - private market sale 382 362,900 235.65 223,872 85,519,104 54,760,415 140,279,519 25,559,909 65,476,709 [‡] 4 bedroom house - private market sale 135 182,250 219.02 295.680 39,916,800 ± 5 bedroom house - private market sale 39 58,890 204.91 309,408 12,066,912 7,726,801 19,793,713 ± 2 bedroom flat - intermediate 9 6.777 117.80 88.704 798.336 511,198 1,309,534 ‡ 2 bedroom house - intermediate 28 24,108 125.10 107,712 3,015,936 1,931,193 4,947,129 ‡ 2 bedroom bungalow - intermediate 2 1,506 137.43 103,488 206,976 132,533 339,509 122.37 122,496 ‡ 3 bedroom (5 person) house - intermediate 14 14,014 1,714,944 1,098,129 2,813,073 ‡ 3 bedroom (6 person) house - intermediate 7 7,686 126.95 139,392 975,744 624,798 1,600,542 ‡ 3 bedroom bungalow - intermediate 2 127.72 118,272 388,010 1,852 236.544 151,466 ‡ 4 bedroom house - intermediate 4 4,952 148.42 183,744 734,976 470,627 1,205,603 12 ± 1 bedroom flat - affordable rent 6.456 129.54 69.695 836.340 532.119 1,368,459 ‡ 2 bedroom flat - affordable rent 17 12,801 112.05 84,370 1,434,290 912,564 2,346,854 ‡ 2 bedroom house - affordable rent 55 47,355 97.99 84,370 4,640,350 2,952,412 7,592,762 5 226,978 583,723 [‡] 2 bedroom bungalow - affordable rent 3,765 94.75 71,349 356,745 ‡ 3 bedroom house (5 person) - affordable rent 34 34,034 99.44 99,543 3,384,462 2,153,356 5,537,818 ‡ 3 bedroom house (6 person) - affordable rent 17 18,666 90.66 99,543 1,692,231 1,076,678 2,768,909 ± 3 bedroom bungalow - affordable rent 5 99,543 497,715 814,385 4,630 107.50 316,670 ± 4 bedroom house - affordable rent 3 3,714 100.74 124.720 374,160 238,058 612,218 ‡ 5 bedroom house - affordable rent 6 7,686 98.19 125,779 754,674 480,160 1,234,834 Totals 3,500 3,232,619 660,200,787 235,081,182 895,281,969 Rental Area Summary Initial Not Pont Initial

Rental Area Summary				Initiai	Net Rent	Initial	
	Units	ft²	Rate ft ²	MRV/Unit	at Sale	MRV	
Ground rent - private rented 1 bedroom flat	47	22,654	0.31	150	7,050	7,050	
Ground rent - private rented 2 bedroom flat	17	11,135	0.38	250	4,250	4,250	
Ground rent - private rented 1 bedroom flat	47	22,654	0.31	150	7,050	7,050	
Ground rent - private rented 2 bedroom flat	17	11,135	0.38	250	4,250	4,250	
Ground rent - private rented 1 bedroom flat	47	22,654	0.31	150	7,050	7,050	
Ground rent - private rented 2 bedroom flat	17	11,135	0.38	250	4,250	4,250	
Ground rent - private rented 1 bedroom flat	65	31,330	0.31	150	9,750	9,750	
Ground rent - private rented 2 bedroom flat	24	<u>15,720</u>	0.38	250	6,000	6,000	
Totals	281	148,417			49,650	49,650	

Investment Valuation

Ground rent - private rented 1 bedroom flat

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West Winch Urban Extension					
Kings Lynn Scenario 3					
Market Rent	7,050	YP @ PV 2yrs 5mths @	4.0000% 4.0000%	25.0000 0.9096	160,312
Ground rent - private rented 2 bedroom flat		F v Zyis Sinins @	4.0000%	0.9098	100,312
Market Rent	4,250	YP @ PV 2yrs 5mths @	4.0000% 4.0000%	25.0000 0.9096	96,642
Ground rent - private rented 1 bedroom flat		,			30,042
Market Rent	7,050	YP @ PV 11mths @	4.0000% 4.0000%	25.0000 0.9647	170,026
Ground rent - private rented 2 bedroom flat					110,020
Market Rent	4,250	YP @ PV 11mths @	4.0000% 4.0000%	25.0000 0.9647	102,498
Ground rent - private rented 1 bedroom flat					102,100
Market Rent	7,050	YP @ PV 3yrs 5mths @	4.0000% 4.0000%	25.0000 0.8746	154,146
Ground rent - private rented 2 bedroom flat	4.050	-			,
Market Rent	4,250	YP @ PV 3yrs 5mths @	4.0000% 4.0000%	25.0000 0.8746	92,925
Ground rent - private rented 1 bedroom flat	0.750	·	4.00000/	05,0000	·
Market Rent	9,750	YP @ PV 6yrs 6mths @	4.0000% 4.0000%	25.0000 0.7750	188,898
Ground rent - private rented 2 bedroom flat Market Rent	6.000	YP @	4.0000%	25.0000	
Market Rent	0,000	PV 6yrs 6mths @	4.0000%	0.7750	116,245
					1,081,691
GROSS DEVELOPMENT VALUE				896,363,661	
Additional Revenue					
Commercial Land Revenue			102,100	102,100	
				·	
NET REALISATION				896,465,761	
OUTLAY					
ACQUISITION COSTS					
Fixed Price		10,593,601			

cenario 3		44 774 400		
Fixed Price		11,774,408		
Fixed Price Fixed Price		12,253,105 19,946,383		
Total Acquisition (474.31 Acres 115,046.06 pAcre)		19,940,363	54,567,498	
Total Acquisition (474.51 Acres 115,046.06 pAcre)			54,507,490	54,567,498
Stamp Duty			2,678,375	54,507,450
Acquisition Cost		1.80%	982,215	
Addition of the		1.0070	002,210	3,660,590
ONSTRUCTION COSTS				-,,
onstruction	ft²	Rate ft ²	Cost	
‡ 1 bedroom flat - private market sale	27,166 ft ²	129.38 pf ²	3,669,241	
2 bedroom flat - private market sale	13,362 ft ²	129.38 pf ²	1,804,771	
2 bedroom house - private market sale	119,700 ft ²	108.88 pf ²	13,606,624	
‡ 3 bedroom house - private market sale	264,100 ft ²	108.88 pf ²	30,020,965	
‡ 4 bedroom house - private market sale	133,650 ft ²	108.88 pf ²	15,192,359	
‡ 5 bedroom house - private market sale	42,280 ft ²	108.88 pf ²	4,806,083	
‡ 2 bedroom flat - intermediate	5,424 ft ²	129.38 pf ²	732,606	
‡ 2 bedroom house - intermediate	17,220 ft ²	108.88 pf ²	1,957,444	
‡ 2 bedroom bungalow - intermediate	1,506 ft ²	108.88 pf ²	171,191	
‡ 3 bedroom (5 person) house - intermediate	10,010 ft ²	108.88 pf ²	1,137,864	
‡ 3 bedroom (6 person) house - intermediate	5,490 ft ²	108.88 pf ²	624,063	
‡ 3 bedroom bungalow - intermediate	1,852 ft ²	108.88 pf ²	210,522	
‡ 4 bedroom house - intermediate	3,714 ft ²	108.88 pf ²	422,180	
‡ 1 bedroom flat - affordable rent	5,814 ft ²	129.38 pf ²	785,282	
‡ 2 bedroom flat - affordable rent	10,848 ft ²	129.38 pf ²	1,465,211	
‡ 2 bedroom house - affordable rent	34,440 ft ²	108.88 pf ²	3,914,888	
‡ 2 bedroom bungalow - affordable rent	2,259 ft ²	108.88 pf ²	256,787	
‡ 3 bedroom house (5 person) - affordable rent	25,025 ft ²	108.88 pf ²	2,844,660	
‡ 3 bedroom house (6 person) - affordable rent	14,274 ft ²	108.88 pf ²	1,622,564	
‡ 3 bedroom bungalow - affordable rent	3,704 ft ²	108.88 pf ²	421,044	
‡ 4 bedroom house - affordable rent	2,476 ft ²	108.88 pf ²	281,454	
‡ 5 bedroom house - affordable rent	5,124 ft ²	108.88 pf ²	582,459	
‡ 1 bedroom flat - private market sale	27,166 ft ²	129.38 pf ²	4,097,574	
‡ 2 bedroom flat - private market sale	13,362 ft ²	129.38 pf ²	2,015,453	
‡ 2 bedroom house - private market sale	119,700 ft ²	108.88 pf ²	15,195,012	
‡ 3 bedroom house - private market sale	264,100 ft ²	108.88 pf ²	33,525,502	
‡ 4 bedroom house - private market sale	133,650 ft ²	108.88 pf ²	16,965,859	

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West Winch Urban Extension

Kings Lynn Scenario 3

‡ 5 bedroom house - private market sale	42,280 ft ²	108.88 pf ²	5,367,127
‡ 2 bedroom flat - intermediate	5,424 ft ²	129.38 pf ²	818,127
‡ 2 bedroom house - intermediate	17,220 ft ²	108.88 pf ²	2,185,949
‡ 2 bedroom bungalow - intermediate	1,506 ft ²	108.88 pf ²	191,175
‡ 3 bedroom (5 person) house - intermediate	10,010 ft ²	108.88 pf ²	1,270,694
‡ 3 bedroom (6 person) house - intermediate	5,490 ft ²	108.88 pf ²	696,914
‡ 3 bedroom bungalow - intermediate	1,852 ft ²	108.88 pf ²	235,097
‡ 4 bedroom house - intermediate	3,714 ft ²	108.88 pf ²	471,464
‡ 1 bedroom flat - affordable rent	5,814 ft ²	129.38 pf ²	876,953
‡ 2 bedroom flat - affordable rent	10,848 ft ²	129.38 pf ²	1,636,254
‡ 2 bedroom house - affordable rent	34,440 ft ²	108.88 pf ²	4,371,898
‡ 2 bedroom bungalow - affordable rent	2,259 ft ²	108.88 pf ²	286,763
‡ 3 bedroom house (5 person) - affordable rent	25,025 ft ²	108.88 pf ²	3,176,735
‡ 3 bedroom house (6 person) - affordable rent	14,274 ft ²	108.88 pf ²	1,811,977
‡ 3 bedroom bungalow - affordable rent	3,704 ft ²	108.88 pf ²	470,195
‡ 4 bedroom house - affordable rent	2,476 ft ²	108.88 pf ²	314,310
‡ 5 bedroom house - affordable rent	5,124 ft ²	108.88 pf ²	650,453
‡ 1 bedroom flat - private market sale	27,166 ft ²	129.38 pf ²	4,547,465
‡ 2 bedroom flat - private market sale	13,362 ft ²	129.38 pf ²	2,236,738
‡ 2 bedroom house - private market sale	119,700 ft ²	108.88 pf ²	16,863,337
‡ 3 bedroom house - private market sale	264,100 ft ²	108.88 pf ²	37,206,410
‡ 4 bedroom house - private market sale	133,650 ft ²	108.88 pf ²	18,828,613
‡ 5 bedroom house - private market sale	42,280 ft ²	108.88 pf ²	5,956,407
‡ 2 bedroom flat - intermediate	5,424 ft ²	129.38 pf ²	907,953
‡ 2 bedroom house - intermediate	17,220 ft ²	108.88 pf ²	2,425,954
‡ 2 bedroom bungalow - intermediate	1,506 ft ²	108.88 pf ²	212,165
‡ 3 bedroom (5 person) house - intermediate	10,010 ft ²	108.88 pf ²	1,410,209
‡ 3 bedroom (6 person) house - intermediate	5,490 ft ²	108.88 pf ²	773,431
‡ 3 bedroom bungalow - intermediate	1,852 ft ²	108.88 pf ²	260,910
‡ 4 bedroom house - intermediate	3,714 ft ²	108.88 pf ²	523,228
‡ 1 bedroom flat - affordable rent	5,841 ft ²	129.38 pf ²	977,757
‡ 2 bedroom flat - affordable rent	10,848 ft ²	129.38 pf ²	1,815,906
‡ 2 bedroom house - affordable rent	34,440 ft ²	108.88 pf ²	4,851,907
‡ 2 bedroom bungalow - affordable rent	2,259 ft ²	108.88 pf ²	318,248
‡ 3 bedroom house (5 person) - affordable rent	25,025 ft ²	108.88 pf ²	3,525,522
‡ 3 bedroom house (6 person) - affordable rent	14,274 ft ²	108.88 pf ²	2,010,921
‡ 3 bedroom bungalow - affordable rent	3,704 ft ²	108.88 pf ²	521,820

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West Winch Urban Extension Kings Lynn Scenario 3

Scenario 3				
‡ 4 bedroom house - affordable rent	2,476 ft ²	108.88 pf ²	348,819	
‡ 5 bedroom house - affordable rent	5,124 ft ²	108.88 pf ²	721,869	
‡ 1 bedroom flat - private market sale	37,570 ft ²	129.38 pf ²	7,249,175	
‡ 2 bedroom flat - private market sale	18,864 ft ²	129.38 pf ²	3,639,831	
‡ 2 bedroom house - private market sale	164,500 ft ²	108.88 pf ²	26,712,777	
‡ 3 bedroom house - private market sale	362,900 ft ²	108.88 pf ²	58,930,497	
‡ 4 bedroom house - private market sale	182,250 ft ²	108.88 pf ²	29,595,159	
‡ 5 bedroom house - private market sale	58,890 ft ²	108.88 pf ²	9,563,012	
‡ 2 bedroom flat - intermediate	8,136 ft ²	129.38 pf ²	1,569,851	
‡ 2 bedroom house - intermediate	24,108 ft ²	108.88 pf ²	3,914,843	
‡ 2 bedroom bungalow - intermediate	1,506 ft ²	108.88 pf ²	244,556	
‡ 3 bedroom (5 person) house - intermediate	14,014 ft ²	108.88 pf ²	2,275,701	
‡ 3 bedroom (6 person) house - intermediate	7,686 ft ²	108.88 pf ²	1,248,112	
‡ 3 bedroom bungalow - intermediate	1,852 ft ²	108.88 pf ²	300,742	
‡ 4 bedroom house - intermediate	4,952 ft ²	108.88 pf ²	804,144	
‡ 1 bedroom flat - affordable rent	7,788 ft ²	129.38 pf ²	1,502,704	
‡ 2 bedroom flat - affordable rent	15,368 ft ²	129.38 pf ²	2,965,274	
‡ 2 bedroom house - affordable rent	47,355 ft ²	108.88 pf ²	7,689,870	
‡ 2 bedroom bungalow - affordable rent	3,765 ft ²	108.88 pf ²	611,390	
‡ 3 bedroom house (5 person) - affordable rent	34,034 ft ²	108.88 pf ²	5,526,703	
‡ 3 bedroom house (6 person) - affordable rent	18,666 ft ²	108.88 pf ²	3,031,129	
‡ 3 bedroom bungalow - affordable rent	4,630 ft ²	108.88 pf ²	751,855	
‡ 4 bedroom house - affordable rent	3,714 ft ²	108.88 pf ²	603,108	
‡ 5 bedroom house - affordable rent	<u>7,686 ft²</u>	108.88 pf ²	<u>1,248,112</u>	
Totals	3,456,593 ft ²		460,385,876	460,385,876
Contingency		5.00%	23,019,294	
S106 (44% OB)			9,990,337	
S106 (24% OB)			12,054,335	
S106 (No OB)			68,189,749	
Neighbourhood Plan (44% OB)			187,584	
Neighbourhood Plan (No OB)			659,701	
Developer Costs (44% OB)			26,815,467	
Developer Costs (No OB)			12,990,059	
Other Infrastructure			18,014,941	
Optimism Bias (44%)		44.00%	25,008,280	
Optimum Bias (24%)		24.00%	610,408	

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West Winch Urban Extension				
Kings Lynn				
Scenario 3				
Optimism Bias (24%)	24.00%	2,282,632		
Developer Cost (44% OB)		19,843,612		
Developer Cost (No OB)		10,901,715		
Other Infrastructre		13,394,420		
Notional Balancing Payment	1.00%	4		
			243,962,538	
PROFESSIONAL FEES				
Professional Fees	8.00%	36,830,870		
			36,830,870	
DISPOSAL FEES Sales Agent Fee	1.00%	8,963,637		
Sales Agent Fee	0.50%	4,481,818		
Marketing	1.00%	8,963,637		
RP Purchase Cost	0.80%	749,109		
			23,158,200	
Debit Rate 6.000%, Credit Rate 0.000% (Nominal) Total Finance Cost			16,689,639	
Total Finance Cost			10,009,039	
TOTAL COSTS			839,255,211	
PROFIT				
			57,210,550	
Performance Measures Profit on Cost%	6.82%			
Profit on GDV%	6.38%			
	0.0078			
IRR	10.42%			
Land Cost pAcre	115,046			
‡ Inflation/Growth applied				
Growth on Sales		Ungrown	Growth	Total
1 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	4,317,984	365,247	4,683,231
		.,,	000,211	.,000,201

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West Winch Urban Extension Kings Lynn Scenario 3

2 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	2,154,240	182,222	2,336,462
2 bedroom house - private market sale	Growth Set 1 at 2.000% var.	28,531,008	2,413,367	30,944,375
3 bedroom house - private market sale	Growth Set 1 at 2.000% var.	62,236,416	5,264,423	67,500,839
4 bedroom house - private market sale	Growth Set 1 at 2.000% var.	29,272,320	2,476,073	31,748,393
5 bedroom house - private market sale	Growth Set 1 at 2.000% var.	8,663,424	732,817	9,396,241
2 bedroom flat - intermediate	Growth Set 1 at 2.000% var.	532,224	45,020	577,244
2 bedroom house - intermediate	Growth Set 1 at 2.000% var.	2,154,240	182,222	2,336,462
2 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	206,976	17,508	224,484
3 bedroom (5 person) house - intermediate	Growth Set 1 at 2.000% var.	1,224,960	103,616	1,328,576
3 bedroom (6 person) house - intermediate	Growth Set 1 at 2.000% var.	696,960	58,954	755,914
3 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	236,544	20,009	256,553
4 bedroom house - intermediate	Growth Set 1 at 2.000% var.	551,232	46,627	597,859
1 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	627,255	60,869	688,124
2 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	1,012,440	98,247	1,110,687
2 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	3,374,800	327,489	3,702,289
2 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	214,047	20,771	234,818
3 bedroom house (5 person) - affordable rent	Growth Set 4 at 3.400% var.	2,488,575	241,490	2,730,065
3 bedroom house (6 person) - affordable rent	Growth Set 4 at 3.400% var.	1,294,059	125,575	1,419,634
3 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	398,172	38,638	436,810
4 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	249,440	24,206	273,646
5 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	503,116	48,822	551,938
1 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	4,317,984	926,368	5,244,352
2 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	2,154,240	462,165	2,616,405
2 bedroom house - private market sale	Growth Set 1 at 2.000% var.	28,531,008	6,120,964	34,651,972
3 bedroom house - private market sale	Growth Set 1 at 2.000% var.	62,236,416	13,352,029	75,588,445
4 bedroom house - private market sale	Growth Set 1 at 2.000% var.	29,272,320	6,280,003	35,552,323
5 bedroom house - private market sale	Growth Set 1 at 2.000% var.	8,663,436	1,858,630	10,522,065
2 bedroom flat - intermediate	Growth Set 1 at 2.000% var.	532,224	114,182	646,406
2 bedroom house - intermediate	Growth Set 1 at 2.000% var.	2,154,240	462,165	2,616,405
2 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	206,976	44,404	251,380
3 bedroom (5 person) house - intermediate	Growth Set 1 at 2.000% var.	1,224,960	262,800	1,487,760
3 bedroom (6 person) house - intermediate	Growth Set 1 at 2.000% var.	696,960	149,524	846,484
3 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	236,544	50,747	287,291
4 bedroom house - intermediate	Growth Set 1 at 2.000% var.	551,232	118,260	669,492
1 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	627,255	138,293	765,548
2 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	1,012,440	223,215	1,235,655
2 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	3,374,800	744,052	4,118,852

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West Winch Urban Extension Kings Lynn Scenario 3

2 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	214,047	47,192	261,239
3 bedroom house (5 person) - affordable rent	Growth Set 4 at 3.400% var.	2,488,575	548,663	3,037,238
3 bedroom house (6 person) - affordable rent	Growth Set 4 at 3.400% var.	1,294,059	285,305	1,579,364
3 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	398,172	87,786	485,958
4 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	249,440	54,995	304,435
5 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	503,116	110,923	614,039
1 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	4,317,984	1,630,163	5,948,147
2 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	2,154,240	813,287	2,967,527
2 bedroom house - private market sale	Growth Set 1 at 2.000% var.	28,531,008	10,771,272	39,302,280
3 bedroom house - private market sale	Growth Set 1 at 2.000% var.	62,236,416	23,496,028	85,732,444
4 bedroom house - private market sale	Growth Set 1 at 2.000% var.	29,272,320	11,051,139	40,323,459
5 bedroom house - private market sale	Growth Set 1 at 2.000% var.	8,663,424	3,270,691	11,934,115
2 bedroom flat - intermediate	Growth Set 1 at 2.000% var.	532,224	200,930	733,154
2 bedroom house - intermediate	Growth Set 1 at 2.000% var.	2,154,240	813,287	2,967,527
2 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	206,976	78,139	285,115
3 bedroom (5 person) house - intermediate	Growth Set 1 at 2.000% var.	1,224,960	462,457	1,687,417
3 bedroom (6 person) house - intermediate	Growth Set 1 at 2.000% var.	696,960	263,122	960,082
3 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	236,544	89,302	325,846
4 bedroom house - intermediate	Growth Set 1 at 2.000% var.	551,232	208,106	759,338
1 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	627,255	238,398	865,653
2 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	1,012,440	384,794	1,397,234
2 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	3,374,800	1,282,645	4,657,445
2 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	214,047	81,352	295,399
3 bedroom house (5 person) - affordable rent	Growth Set 4 at 3.400% var.	2,488,575	945,822	3,434,397
3 bedroom house (6 person) - affordable rent	Growth Set 4 at 3.400% var.	1,294,059	491,827	1,785,886
3 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	398,172	151,331	549,503
4 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	249,440	94,804	344,244
5 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	503,116	191,217	694,333
1 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	5,971,680	3,823,844	9,795,524
2 bedroom flat - private market sale	Growth Set 1 at 2.000% var.	3,041,280	1,947,422	4,988,702
2 bedroom house - private market sale	Growth Set 1 at 2.000% var.	39,209,280	25,106,863	64,316,143
3 bedroom house - private market sale	Growth Set 1 at 2.000% var.	85,519,104	54,760,415	140,279,519
4 bedroom house - private market sale	Growth Set 1 at 2.000% var.	39,916,800	25,559,909	65,476,709
5 bedroom house - private market sale	Growth Set 1 at 2.000% var.	12,066,912	7,726,801	19,793,713
2 bedroom flat - intermediate	Growth Set 1 at 2.000% var.	798,336	511,198	1,309,534
2 bedroom house - intermediate	Growth Set 1 at 2.000% var.	3,015,936	1,931,193	4,947,129
2 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	206,976	132,533	339,509

APPRAISAL SUMMARY West Winch Urban Extension

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Kings Lynn				
Scenario 3				
3 bedroom (5 person) house - intermediate	Growth Set 1 at 2.000% var.	1,714,944	1,098,129	2,813,073
3 bedroom (6 person) house - intermediate	Growth Set 1 at 2.000% var.	975,744	624,798	1,600,542
3 bedroom bungalow - intermediate	Growth Set 1 at 2.000% var.	236,544	151,466	388,010
4 bedroom house - intermediate	Growth Set 1 at 2.000% var.	734,976	470,627	1,205,603
1 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	836,340	532,119	1,368,459
2 bedroom flat - affordable rent	Growth Set 4 at 3.400% var.	1,434,290	912,564	2,346,854
2 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	4,640,350	2,952,412	7,592,762
2 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	356,745	226,978	583,723
3 bedroom house (5 person) - affordable rent	Growth Set 4 at 3.400% var.	3,384,462	2,153,356	5,537,818
3 bedroom house (6 person) - affordable rent	Growth Set 4 at 3.400% var.	1,692,231	1,076,678	2,768,909
3 bedroom bungalow - affordable rent	Growth Set 4 at 3.400% var.	497,715	316,670	814,385
4 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	374,160	238,058	612,218
5 bedroom house - affordable rent	Growth Set 4 at 3.400% var.	754,674	480,160	1,234,834
nflation on Construction Costs		Uninflated	Inflation	Total
1 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	3,514,601	154,640	3,669,241
2 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	1,728,709	76,062	1,804,771
2 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	13,033,175	573,449	13,606,624
3 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	28,755,736	1,265,229	30,020,965
4 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	14,552,079	640,280	15,192,359
5 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	4,603,531	202,552	4,806,083
2 bedroom flat - intermediate	Inflation Set 1 at 0.500% var.	701,730	30,876	732,606
2 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	1,874,948	82,496	1,957,444
2 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	163,976	7,215	171,191
3 bedroom (5 person) house - intermediate	Inflation Set 1 at 0.500% var.	1,089,909	47,955	1,137,864
3 bedroom (6 person) house - intermediate	Inflation Set 1 at 0.500% var.	597,762	26,301	624,063
3 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	201,649	8,872	210,522
4 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	404,388	17,793	422,180
1 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	752,186	33,096	785,282
2 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	1,403,460	61,751	1,465,211
2 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	3,749,896	164,992	3,914,888
2 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	245,964	10,822	256,787
3 bedroom house (5 person) - affordable rent	Inflation Set 1 at 0.500% var.	2,724,772	119,888	2,844,660
3 bedroom house (6 person) - affordable rent	Inflation Set 1 at 0.500% var.	1,554,182	68,383	1,622,564
3 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	403,299	17,745	421,044
4 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	269,592	11,862	281,454
5 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	557,911	24,548	582,459

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West Winch Urban Extension Kings Lynn Scenario 3

	Inflation Cat 4 at 0 5000/ was	2 544 604	500 070	4 007 574
1 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	3,514,601	582,973	4,097,574
2 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	1,728,709	286,744	2,015,453
2 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	13,033,175	2,161,836	15,195,012
3 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	28,755,736	4,769,766	33,525,502
4 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	14,552,079	2,413,780	16,965,859
5 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	4,603,531	763,596	5,367,127
2 bedroom flat - intermediate	Inflation Set 1 at 0.500% var.	701,730	116,397	818,127
2 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	1,874,948	311,001	2,185,949
2 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	163,976	27,199	191,175
3 bedroom (5 person) house - intermediate	Inflation Set 1 at 0.500% var.	1,089,909	180,785	1,270,694
3 bedroom (6 person) house - intermediate	Inflation Set 1 at 0.500% var.	597,762	99,152	696,914
3 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	201,649	33,448	235,097
4 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	404,388	67,077	471,464
1 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	752,186	124,766	876,953
2 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	1,403,460	232,794	1,636,254
2 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	3,749,896	622,002	4,371,898
2 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	245,964	40,799	286,763
3 bedroom house (5 person) - affordable rent	Inflation Set 1 at 0.500% var.	2,724,772	451,963	3,176,735
3 bedroom house (6 person) - affordable rent	Inflation Set 1 at 0.500% var.	1,554,182	257,795	1,811,977
3 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	403,299	66,896	470,195
4 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	269,592	44,718	314,310
5 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	557,911	92,542	650,453
1 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	3,514,601	1,032,863	4,547,465
2 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	1,728,709	508,029	2,236,738
2 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	13,033,175	3,830,161	16,863,337
3 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	28,755,736	8,450,674	37,206,410
4 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	14,552,079	4,276,534	18,828,613
5 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	4,603,531	1,352,876	5,956,407
2 bedroom flat - intermediate	Inflation Set 1 at 0.500% var.	701,730	206,223	907,953
2 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	1,874,948	551,006	2,425,954
2 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	163,976	48,189	212,165
3 bedroom (5 person) house - intermediate	Inflation Set 1 at 0.500% var.	1,089,909	320,300	1,410,209
3 bedroom (6 person) house - intermediate	Inflation Set 1 at 0.500% var.	597,762	175,669	773,431
3 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	201,649	59,260	260,910
4 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	404,388	118,841	523,228
1 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	755,679	222,077	977,757
2 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	1,403,460	412,446	1,815,906
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4,851,907 318,248

3,525,522

2,010,921

521,820

348,819

721,869

7,249,175

3,639,831

26,712,777

58,930,497

29,595,159

9,563,012 1,569,851

3,914,843

2,275,701

1,248,112

300,742

804,144

1,502,704

2,965,274

7,689,870

3,031,129

1,248,112

751,855 603,108

611,390 5,526,703

244,556

West Winch Urban Extension Kings Lynn Scenario 3

2 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	3,749,896	1,102,011
2 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	245,964	72,283
3 bedroom house (5 person) - affordable rent	Inflation Set 1 at 0.500% var.	2,724,772	800,750
3 bedroom house (6 person) - affordable rent	Inflation Set 1 at 0.500% var.	1,554,182	456,740
3 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	403,299	118,521
4 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	269,592	79,227
5 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	557,911	163,958
1 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	4,860,619	2,388,557
2 bedroom flat - private market sale	Inflation Set 1 at 0.500% var.	2,440,530	1,199,301
2 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	17,911,089	8,801,688
3 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	39,513,278	19,417,219
4 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	19,843,745	9,751,414
5 bedroom house - private market sale	Inflation Set 1 at 0.500% var.	6,412,061	3,150,951
2 bedroom flat - intermediate	Inflation Set 1 at 0.500% var.	1,052,595	517,256
2 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	2,624,927	1,289,915
2 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	163,976	80,580
3 bedroom (5 person) house - intermediate	Inflation Set 1 at 0.500% var.	1,525,872	749,829
3 bedroom (6 person) house - intermediate	Inflation Set 1 at 0.500% var.	836,867	411,245
3 bedroom bungalow - intermediate	Inflation Set 1 at 0.500% var.	201,649	99,093
4 bedroom house - intermediate	Inflation Set 1 at 0.500% var.	539,184	264,960
1 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	1,007,572	495,131
2 bedroom flat - affordable rent	Inflation Set 1 at 0.500% var.	1,988,235	977,039
2 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	5,156,107	2,533,762
2 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	409,941	201,449
3 bedroom house (5 person) - affordable rent	Inflation Set 1 at 0.500% var.	3,705,690	1,821,013
3 bedroom house (6 person) - affordable rent	Inflation Set 1 at 0.500% var.	2,032,391	998,737
3 bedroom bungalow - affordable rent	Inflation Set 1 at 0.500% var.	504,124	247,731
4 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	404,388	198,720
5 bedroom house - affordable rent	Inflation Set 1 at 0.500% var.	836,867	411,245



Appendix 4 (ii)

Base Position Development Appraisal with Sensitivity Analysis

West Winch Urban Extension Kings Lynn Scenario 3

> Development Appraisal Gerald Eve LLP 15 August 2018

West Winch Urban Extension Kings Lynn Scenario 3

Table of Profit Amount and IRR%

	Sales: Rate pf ²					
Construction: Rate pf ²	-10.000%	-5.000%	0.000%	+5.000%	+10.000%	
-10.000%	£11,749,066	£73,509,427	£119,483,759	£161,632,021	£203,016,227	
116.44 pf ²	6.5185%	12.6460%	18.9025%	25.2216%	31.5415%	
-5.000%	(£36,399,540)	£35,695,003	£90,366,574	£134,635,188	£176,427,909	
122.91 pf ²	2.6247%	8.5032%	14.5402%	20.6892%	26.8868%	
0.000%	(£84,606,967)	(£11,644,290)	£57,210,550	£106,499,488	£149,628,578	
129.38 pf ²	-1.0248%	4.6157%	10.4165%	16.3640%	22.4073%	
+5.000%	(£132,814,394)	(£59,851,716)	£13,044,824	£75,468,805	£122,101,170	
135.84 pf ²	-4.4603%	0.9699%	6.5370%	12.2625%	18.1213%	
+10.000%	(£181,021,820)	(£108,059,143)	(£35,096,466)	£37,034,684	£92,530,186	
142.31 pf ²	-7.7152%	-2.4587%	2.8941%	8.3932%	14.0448%	

Sensitivity Analysis : Assumptions for Calculation

Sales: Rate pf²

Original Values are varied by Steps of 5.000%.

Heading	Phase	Rate	No. of Steps
1 bedroom flat - private market sale	1	£190.61	2 Up & Down
2 bedroom flat - private market sale	1	£193.47	2 Up & Down
2 bedroom house - private market sale	1	£238.35	2 Up & Down
3 bedroom house - private market sale	1	£235.65	2 Up & Down
4 bedroom house - private market sale	1	£219.02	2 Up & Down
5 bedroom house - private market sale	1	£204.91	2 Up & Down
1 bedroom flat - private market sale	2	£190.61	2 Up & Down
2 bedroom flat - private market sale	2	£193.47	2 Up & Down
2 bedroom house - private market sale	2	£238.35	2 Up & Down
3 bedroom house - private market sale	2	£235.65	2 Up & Down
4 bedroom house - private market sale	2	£219.02	2 Up & Down
5 bedroom house - private market sale	2	£204.91	2 Up & Down
1 bedroom flat - private market sale	3	£190.61	2 Up & Down
2 bedroom flat - private market sale	3	£193.47	2 Up & Down
2 bedroom house - private market sale	3	£238.35	2 Up & Down
3 bedroom house - private market sale	3	£235.65	2 Up & Down

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West Winch Urban Extension Kings Lynn

Scenario 3

4 bedroom house - private market sale	3	£219.02	2 Up & Down
5 bedroom house - private market sale	3	£204.91	2 Up & Down
1 bedroom flat - private market sale	4	£190.61	2 Up & Down
2 bedroom flat - private market sale	4	£193.47	2 Up & Down
2 bedroom house - private market sale	4	£238.35	2 Up & Down
3 bedroom house - private market sale	4	£235.65	2 Up & Down
4 bedroom house - private market sale	4	£219.02	2 Up & Down
5 bedroom house - private market sale	4	£204.91	2 Up & Down
2 bedroom flat - intermediate	1	£117.80	2 Up & Down
2 bedroom house - intermediate	1	£125.10	2 Up & Down
2 bedroom bungalow - intermediate	1	£137.43	2 Up & Down
3 bedroom (5 person) house - intermediate	1	£122.37	2 Up & Down
3 bedroom (6 person) house - intermediate	1	£126.95	2 Up & Down
3 bedroom bungalow - intermediate	1	£127.72	2 Up & Down
4 bedroom house - intermediate			2 Up & Down
2 bedroom flat - intermediate	2	£117.80	2 Up & Down
2 bedroom house - intermediate			2 Up & Down
2 bedroom bungalow - intermediate	2	£137.43	2 Up & Down
3 bedroom (5 person) house - intermediate	2	£122.37	2 Up & Down
3 bedroom (6 person) house - intermediate			2 Up & Down
3 bedroom bungalow - intermediate			2 Up & Down
4 bedroom house - intermediate	2	£148.42	2 Up & Down
2 bedroom flat - intermediate	3	£117.80	2 Up & Down
2 bedroom house - intermediate	3	£125.10	2 Up & Down
2 bedroom bungalow - intermediate	3	£137.43	2 Up & Down
3 bedroom (5 person) house - intermediate	3	£122.37	2 Up & Down
3 bedroom (6 person) house - intermediate			2 Up & Down
3 bedroom bungalow - intermediate			2 Up & Down
4 bedroom house - intermediate	3	£148.42	2 Up & Down
2 bedroom flat - intermediate	4	£117.80	2 Up & Down
2 bedroom house - intermediate	4	£125.10	2 Up & Down
2 bedroom bungalow - intermediate	4	£137.43	2 Up & Down
3 bedroom (5 person) house - intermediate			2 Up & Down
3 bedroom (6 person) house - intermediate			2 Up & Down
3 bedroom bungalow - intermediate			2 Up & Down
4 bedroom house - intermediate			2 Up & Down

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Report Date: 15/08/2018

West Winch Urban Extension Kings Lynn Scenario 3

Construction: Rate pf²

Original Values are varied by Steps of 5.000%.

Heading	Phase	Rate	No. of Steps
1 bedroom flat - private market sale			2 Up & Down
2 bedroom flat - private market sale	1	£129.38	2 Up & Down
2 bedroom house - private market sale	1	£108.88	2 Up & Down
3 bedroom house - private market sale	1	£108.88	2 Up & Down
4 bedroom house - private market sale	1	£108.88	2 Up & Down
5 bedroom house - private market sale	1	~	2 Up & Down
2 bedroom flat - intermediate	1	£129.38	2 Up & Down
2 bedroom house - intermediate	1	£108.88	2 Up & Down
2 bedroom bungalow - intermediate	1	£108.88	2 Up & Down
3 bedroom (5 person) house - intermediate	1	£108.88	2 Up & Down
3 bedroom (6 person) house - intermediate	1		2 Up & Down
3 bedroom bungalow - intermediate	1	£108.88	2 Up & Down
4 bedroom house - intermediate	1	£108.88	2 Up & Down
1 bedroom flat - affordable rent	1	£129.38	2 Up & Down
2 bedroom flat - affordable rent	1	£129.38	2 Up & Down
2 bedroom house - affordable rent	1	£108.88	2 Up & Down
2 bedroom bungalow - affordable rent	1	£108.88	2 Up & Down
3 bedroom house (5 person) - affordable rent	1	£108.88	2 Up & Down
3 bedroom house (6 person) - affordable rent	1	£108.88	2 Up & Down
3 bedroom bungalow - affordable rent	1		2 Up & Down
4 bedroom house - affordable rent	1	£108.88	2 Up & Down
5 bedroom house - affordable rent	1	£108.88	2 Up & Down
1 bedroom flat - private market sale	2	£129.38	2 Up & Down
2 bedroom flat - private market sale	2	£129.38	2 Up & Down
2 bedroom house - private market sale	2	£108.88	2 Up & Down
3 bedroom house - private market sale	2	£108.88	2 Up & Down
4 bedroom house - private market sale	2	£108.88	2 Up & Down
5 bedroom house - private market sale			2 Up & Down
2 bedroom flat - intermediate	2	£129.38	2 Up & Down
2 bedroom house - intermediate	2	£108.88	2 Up & Down
2 bedroom bungalow - intermediate	2	£108.88	2 Up & Down

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West Winch Urban Extension Kings Lynn

Scenario 3

3 bedroom (5 person) house - intermediate	2	£108.88	2 Up & Down
3 bedroom (6 person) house - intermediate			2 Up & Down
3 bedroom bungalow - intermediate	2	£108.88	2 Up & Down
4 bedroom house - intermediate	2	£108.88	2 Up & Down
1 bedroom flat - affordable rent	2	£129.38	2 Up & Down
2 bedroom flat - affordable rent	2	£129.38	2 Up & Down
2 bedroom house - affordable rent	2	£108.88	2 Up & Down
2 bedroom bungalow - affordable rent	2	£108.88	2 Up & Down
3 bedroom house (5 person) - affordable rent	2	£108.88	2 Up & Down
3 bedroom house (6 person) - affordable rent	2	£108.88	2 Up & Down
3 bedroom bungalow - affordable rent	2	£108.88	2 Up & Down
4 bedroom house - affordable rent	2	£108.88	2 Up & Down
5 bedroom house - affordable rent	2	£108.88	2 Up & Down
1 bedroom flat - private market sale	3	£129.38	2 Up & Down
2 bedroom flat - private market sale	3	£129.38	2 Up & Down
2 bedroom house - private market sale	3	£108.88	2 Up & Down
3 bedroom house - private market sale	3	£108.88	2 Up & Down
4 bedroom house - private market sale	3	£108.88	2 Up & Down
5 bedroom house - private market sale	3	£108.88	2 Up & Down
2 bedroom flat - intermediate	3	£129.38	2 Up & Down
2 bedroom house - intermediate	3	£108.88	2 Up & Down
2 bedroom bungalow - intermediate	3	£108.88	2 Up & Down
3 bedroom (5 person) house - intermediate	3	£108.88	2 Up & Down
3 bedroom (6 person) house - intermediate	3	£108.88	2 Up & Down
3 bedroom bungalow - intermediate	3	£108.88	2 Up & Down
4 bedroom house - intermediate	3	£108.88	2 Up & Down
1 bedroom flat - affordable rent	3	£129.38	2 Up & Down
2 bedroom flat - affordable rent	3	£129.38	2 Up & Down
2 bedroom house - affordable rent	3	£108.88	2 Up & Down
2 bedroom bungalow - affordable rent	3	£108.88	2 Up & Down
3 bedroom house (5 person) - affordable rent	3	£108.88	2 Up & Down
3 bedroom house (6 person) - affordable rent	3	£108.88	2 Up & Down
3 bedroom bungalow - affordable rent	3	£108.88	2 Up & Down
4 bedroom house - affordable rent	3	£108.88	2 Up & Down
5 bedroom house - affordable rent	3	£108.88	2 Up & Down
1 bedroom flat - private market sale	4	£129.38	2 Up & Down

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Report Date: 15/08/2018

West Winch Urban Extension Kings Lynn

Scenario 3

2 bedroom flat - private market sale	4	£129.38	2 Up & Down
2 bedroom house - private market sale	4	£108.88	2 Up & Down
3 bedroom house - private market sale	4		2 Up & Down
4 bedroom house - private market sale	4	£108.88	2 Up & Down
5 bedroom house - private market sale	4	£108.88	2 Up & Down
2 bedroom flat - intermediate	4	£129.38	2 Up & Down
2 bedroom house - intermediate	4	£108.88	2 Up & Down
2 bedroom bungalow - intermediate	4	£108.88	2 Up & Down
3 bedroom (5 person) house - intermediate	4	£108.88	2 Up & Down
3 bedroom (6 person) house - intermediate	4		2 Up & Down
3 bedroom bungalow - intermediate	4	£108.88	2 Up & Down
4 bedroom house - intermediate	4		2 Up & Down
1 bedroom flat - affordable rent	4	£129.38	2 Up & Down
2 bedroom flat - affordable rent	4		2 Up & Down
2 bedroom house - affordable rent	4	£108.88	2 Up & Down
2 bedroom bungalow - affordable rent	4	£108.88	2 Up & Down
3 bedroom house (5 person) - affordable rent	4	£108.88	2 Up & Down
3 bedroom house (6 person) - affordable rent	4	£108.88	2 Up & Down
3 bedroom bungalow - affordable rent	4	£108.88	2 Up & Down
4 bedroom house - affordable rent	4	£108.88	2 Up & Down
5 bedroom house - affordable rent	4	£108.88	2 Up & Down

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C. Cost Analysis Spreadsheets

- C.1 Costs for 3,500 Homes
- C.2 Costs for 3,988 Homes



Appendix C(i)

Mott MacDonald 3500 Unit Scheme Infrastructure Cost and Trigger Point Assessment

	_	Cost Analysis for	M
	for South East Kings Lynn Strategic Growth Area :: 377873 Revision: 18: Base Date: Q3 2018 : 277873 Base Date: Q3 2018 7/2018 Base Date: Q3 2018 ction cument is provided with the intent of identifying the potential costs of the infrastructure associated with the South I Area. The costs are broken down into the following 3 main sections; ction 106 Costs Pages: 1 to 5 ditional Neighbourhood Plan Requirements Pages: 6 veloper Costs Pages: 7 her Infrastructure Pages: 8 each of these sections, the costs are further broken down as follows; cess and Transport : Q3 2018 ucation Costs 2018 een Infrastructure Q3 2018 lities Q3 2018 her Requirements Q3 2018 anation of the contents of the columns which appear in the sheets are as follows; Cost" - The total calculated cost associated with the item of infrastructure. buttors" - The contribution amount required by developers. This only appears in the Section 106 costs section, a	MOTT MACDONALD	
Project Title: South East Kings Lynn Strategic Growth Area Project No: 377873 Date: 20/07/2018			
ntroduction			
This document is provided with the intent of identifying	g the potentia	I costs of the infrastructure associated with the South I	East Kings Lynn Strategic
Growth Area. The costs are broken down into the follo	wing 3 main	sections;	
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n.1 Access and Transport : Q3 2018			
n.2 Education Costs 2018			
n.3 Green Infrastructure Q3 2018			
n.4 Community Facilities Q3 2018			
n.5 Utilities Q3 2018			
n.6 Other Requirements Q3 2018			
An explanation of the contents of the columns which a	appear in the	sheets are as follows;	
"Total Cost" - The total calculated cost associated w	ith the item o	finfrastructure	
			all other sections require full
contribution. Any blank (£0) values in the column, required	•	• • • •	
"Assumptions" - Any assumptions made during the		•	
"Trigger point for delivery/ Assummed Cost Phasi	•		
"Cost Source" - Where the associated costs have be	-		
	1		
NB where Optimism Bias (OB) is incuded in costs, a r	ate of 44% h	as been used.	

					Sou	Cost uth East Kings Ly	Analysis for nn Strategic Grov	vth Area		-	M MOTT MACDONALD
Projec Date: 2	:t No : 37787 20/07/2018		Growth Area						Revision: 18 Base Date: Q3 2018	ľ	
1.0 Se	ction 106 Co	osts (3500 homes)									
Ref.	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OE	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.1	Access and Transport										
1.1.1	Transport	Minor improvement to Hardwick for A10 arm							 As Hardwick Transport Strategy, but with updated unit costs. Ref 1.8 will require additional land costs. Which have not been 		See Appendix A
1.1.1.1			Single lane slip road	£ 547,30	1.90 £ 547,301.90	£ 380,070.76	£ 380,070.76	44%	included.	To be delivered by 2020 or by 400 dwellings	
1.1.2		A10 West Winch Bypss - Phase 1									
1.1.2.1			Intermediate roundabout	£ 136,16	2.01 £ 136,162.01	£ 94,556.95	£ 94,556.95	44%		To be delivered by 2020 or by 400 dwellings	
1.1.2.2			200m single carriageway	£ 547,30	1.90 £ 547,301.90	£ 380,070.76	£ 380,070.76	44%		uwenings	
1.1.2.3			A47 roundabout	£ 217.85	9.23 £ 217.859.23	£ 151.291.13	£ 151.291.13	44%	1		
1.1.3		A10 West Winch Bypss - Phase 2									4
1.1.3.1			2no at-grade roundabout on single carriageway	£ 272,32	4.03 £ 272,324.03	£ 189,113.91	£ 189,113.91	44%		To be delivered by 2026 or by 1600 dwellings	1
1.1.3.2			2300m single carriageway	£ 6,293,97	1.85 £ 6,293,971.85	£ 4,370,813.78	£ 4,370,813.78	44%			
1.1.4		A47 east of Hardwick dualled									1
1.1.4.1			800m length widening of existing carriageway	£ 2,189,20	7.60 £ 2,189,207.60	£ 1,520,283.06	£ 1,520,283.06	44%		To be delivered by 2026	1
1.1.5		Hardwick Interchange local									1
1.1.5.1		widening within junction	Widening parts of hardwick circulatory carriageway and exits	£ 1,368,25	4.75 £ 1,368,254.75	£ 950,176.91	£ 950,176.91	44%		To be delivered by 2026 or by 1600 dwellings	1
1.1.5.2			Upgrade to Traffic Signals	£ 101,68	0.00 £ 101,680.00	£ 70,611.11	£ 70,611.11	44%			
1.1.6 1.1.6.1		A47 roundabout retained but expanded	400m length slip road	£ 1,094,60	3.80 £ 1,094,603.80	£ 760,141.53	£ 760,141.53	44%		To be delivered by 2026	1
1.1.6.2			Dual carriageway roundabout	£ 217,85	9.23 £ 217,859.23	£ 151,291.13	£ 151,291.13	44%	1		
1.1.7		A47 flyover dualled								T	1
			1no new viaduct 175m long x 9m wide	£ 8,934,97	5.00 £ -	£ 6,204,843.75	£ -	44%		To be delivered by 2031/35	1
1.1.8 1.1.8.1		A149 dualled	800m length widening of existing					44%	-	To be delivered by 2031/35	-
1.1.8.2			carriageway Existing roundabout upgraded to dual	£ 2,189,20	7.60 £ -	£ 1,520,283.06	£ -	44%	-		
1.1.0.2			roundabout	£ 217,85	9.23 £ -	£ 151,291.13	£ -	44%			
1.1.9	1	Traffic Calming through West							- Allowance; Scope of traffic calming to be defined, nominal sum	1	
1.1.9.1		Winch Village	Nominal Sum	£ 538,19	4.44 £ 538,194.44	£ 538,194.44	£ 538,194.44	0%	of £0.5m as suggested in NCC Document. Assume safe crossings are allowed for in this figure. (Uplifted to 3Q2018).	To be commenced within 12 months of development	Nominal sum, taken from previous scheme.
1110	Access and	Bus Strategy		£ 538,19	+.++ z 538,194.44	2 538,194.44	2 538,194.44				
1.1.10	Transport	Dus Silaleyy									
1	cont		To be confirmed						 Contiributions will need to be sought, however bus service improvements are based on business case. 		
		Access and Transport T	otal	£ 24,866,76	2.56 £ 13,524,720.74	£ 17,433,033.42	£ 9,556,615.48				
1.2	Education										
1.2.1		Contributions towards new facilities									
1.2.1.1			West Winch Primary School Capacity Increase					0%	As advised by NCC Nursery assumed to be part of primary school provision	£100,000 on commencement of the development. £1,000,000 on occupation of 100 new dwellings. (6 months post commencement) Balance (£1,345,240) on occupation of 500 new dwellings percers the ourcell IDR pare (20)	Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
				£ 2,084,27	6.00 £ 2,084,276.00	£ 2,084,276.00	£ 2,084,276.00			across the overall IDP area (30 months post commencement	1

					Sout		Analysis for n Strategic Grow	rth Area			M MINTT MACDONALD
Projec	:t Title: Sout :t No : 37787: 20/07/2018	h East Kings Lynn Strategic 3	c Growth Area						Revision: 18 Base Date: Q3 2018	1	ACDONALD
1.0 Se		osts (3500 homes)									
Ref.	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.2.1.2			420 place primary school (2ha)	£ 6.900.000.00	£ 6.900.000.00	£ 6,900,000.00	£ 6,900,000.00	0%		2ha School site purchased on commencement of the development Transfer of a fully serviced schoo site after occupation of the 100th dwelling (6 months post commencement)	
	Education cont	Contributions towards new facilities cont	315 place primary school (1.5ha, total 2ha safeguarded)	£ 5,150,000.00	£ 5,150,000.00	£ 5,150,000.00	£ 5,150,000.00	0%	As advised by NCC Nursery assumed to be part of primary school provision	 2 ha School site to be purchased 3 years prior to the point when 2000 units are estimated to be occupied (ie. 84 months post commencement) School to be completed by the point when 2000 units are occupied across the wider IDP area and cost apportioned across the previous 3 years (£5,150,000 apportioned between 84 and 120 post commencement) 	Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
1.2.1.4			Nursery provision High School Capacity 606 place Increase	£ -	£ -	£ -	£ -	0%	_	 To be paid by in four equal instalments on occupation of 400 dwellings of each respective phase. 	
1.2.1.6			Sixth Form Capacity 60 place Increase	£ 1,141,740.00	,	£ 1,141,740.00	£ 1,141,740.00	0%		 To be paid by in four equal instalments on occupation of 400 dwellings within each respective phase. 	
1.3	Green	Education Total		£ 25,908,892.00	£ 25,908,892.00	£ 25,908,892.00	£ 25,908,892.00				
1.3.1 1.3.1.1	Green Infrastructure	Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities. Capital Costs.	Formal recreation facilities such as playing fields (10ha)	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	0%	50% of total open space area. Assume 20ha total	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Pro-rata from previous scheme
1.3.1.2 1.3.1.3 1.3.1.4			Play Areas (6ha) Allotments (0.6ha) Other green spaces (4ha)	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	0%	30% of total open space area from DM 16. Assume 20ha total 20% of total open space area. Assume 20ha total	4	
1.3.1.5		Neighbourhood parks, allotments	Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 355,169.01 £ 1,988,946.46	£ 355,169.01 £ 1,988,946.46	£ 355,169.01 £ 1,988,946.46	£ 355,169.01 £ 1,988,946.46	0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.		

					Sout		Analysis for nn Strategic Grov	vth Area			M MOTT MACDONALD
Projec	ct Title: Sout ct No: 377873 20/07/2018	h East Kings Lynn Strategic 3	Growth Area						Revision: 18 Base Date: Q3 2018		
1.0 Se	ction 106 Co	osts (3500 homes)									
Ref.	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.3.2.1		sports and play facilities. Maintainance Costs.	Formal recreation facilities such as playing fields (10ha)	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	0%			
1.3.2.2	Green Infrastructure cont	Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities.	Play Areas (6ha)	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	0%		 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	
1.3.2.3		Maintainance Costs cont	Allotments (0.6ha)	£ 20,407.77	£ 20,407.77	£ 20,407.77	£ 20,407.77	0%		delivered.	
1.3.2.4			Other green spaces (4ha)	£ 636,973.13	£ 636,973.13	£ 636,973.13	£ 636,973.13	0%			
1.3.2.5			Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 995,656.24	£ 995,656.24	£ 995,656.24	£ 995,656.24	0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.]	
1.3.2.6			Interim Habitat Mitigation Payment	£ 200,641.03	£ 200,641.03	£ 200,641.03	£ 200,641.03	0%	Nominal contribution of £50 per home, as required by SADMP, assume 3500 homes. (Uplifted to 3Q2018).		SADMP
		Green Infrastructure To	otal	£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69				
1.4	Community										
1.4.1	Facilities	Neighbourhood Centres									
1.4.1.1			Community Centre 1 (Assumed 1000m ²)	£ 2,447,133.76	£ 2,447,133.76	£ 2,008,841.15	£ 2,008,841.15	24%	 Assumed as one large community centre and 2 smaller community centres. The costs shown are the estimated physical build costs of the 	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	
1.4.1.2			Community Centre 2 (Assumed 500m ²) Community Centre 3 (Assumed	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%	centres.	delivered.	
-			500m ²)	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%			
1.4.1.4			Sports Centre (1500m2)	£ 3.105.575.59	£ 3.105.575.59	£ 2.504.496.44	£ 2,504,496,44	24%	Assumed 1500m2 sports halls (approx. 4 hall). However, this may change in detailed design. - The costs shown are the estimated physical build costs of the centres.		Sport England Facility Costs, April Revision 001, 2016
1.4.1.5			1no. MUGA Facilitiy (782m2)	£ 203,299.53	£ 203,299.53	£ 163,951.23	£ 163,951.23	24%	Taken from Sport England Guidance		
1.4.1.6				2 200,200.00	2 200,200.00	100,001.20	2 100,001.20	2470	- Land to be safeguarded only.	-	F+A Little Black Book (Q1 2011) mid-range a
			Health Centre	£ -		£ -					£1291.66/m ²
1.4.1.7			3no. Shops (Assumed 280m ²)	£ -		£ -			- Land to be safeguarded only.		
1.4.1.8								0%	 Taken as £244 per dwelling (assuming 3500 dwellings) as advised by BCKLWN. (Uplifted to 3Q2018). 		Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12
			NLIS library contributions	£ 979,128.21	£ 979,128.21	£ 979,128.21	£ 979,128.21				October 2016
		Community Facilities To	otal	£ 9,182,270.85	£ 9,182,270.85	£ 7,665,258.18	£ 7,665,258.18				
1.5	Utilities										
1.5.1		SADMP Fire Service Requirement						0%	Allowance for 1 hydrant per 50 homes (assuming 3500) and one additional hydrant per school and neighbourhood centre at £816		
1.5.2		Strategic SUDS Infrastructure	Fire hydrants Contributions	£ 70,167.03	£ 70,167.03	£ 70,167.03	£ 70,167.03		each. (Uplifted to 3Q2018).		2010001 2010
1.3.2		Gracyc GODG milasuuclule									

					Sou		Analysis for nn Strategic Grow	th Area		N	M MOTT MACDONALD
Projec	:t Title: Sou :t No : 37787 20/07/2018	ith East Kings Lynn Strategi 73	ic Growth Area						Revision: 18 Base Date: Q3 2018		
1.0 Se	ction 106 C	Costs (3500 homes)									
	Infrastructure Theme	Item	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.5.2.1			Detention Basins; Capital Cost	£ 6,359,864.96	£ 6,359,864.96	£ 5,128,923.36	£ 5,128,923.36	24%	Allowance for detention basins which are to store a total of 78317.4m3 of water. Works to existing watercourses to be defined. Scope to be defined.	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Cost details taken from Environmental Agency Report SC080039/R9 (March 2015). Require volume of storage take
1.5.2.2			Detention Basins; 15year Maintainance Cost	£ 349,980.88	£ 349,980.88	£ 349,980.88	£ 349,980.88	0%			from: North Runcton and West Winch Surface Water Management Strategy (April 2014).
		Utilities Total		£ 6,780,012.88	£ 6,780,012.88	£ 5,549,071.27	£ 5,549,071.27				
	Total	I Cost of Strategic Infrastructure	(Contribution Portion)	£83,412	2,053.15	£76,69	5,993.62				
		Total Cost of Strategic Infr	rastructure	£94,754	4,094.98	£84,57	2,411.55				
• • •	All cost data has Cost data has l Optimism bias Development a Contributions for	been sourced from a combination of of 44% is taken for all standard civ and Supervision allowance of 10% i for section 106 costs have been tak		pinion based on past ex uilding costs. necessary to developm	xperience. ent and 0% for those a	s a direct cost to the dev		en derived with guidance	e from the Borough Council of King's Lynn and West Norfolk.		

Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes.

Disclaimer:

A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

					f	Analysis for				M M
Proje	ct Title: Sou ct No : 3778 20/07/2018			st Kin	gs Lyn	n Strategic	Growth Are	Revision: 18 Base Date: Q3 2018		MOTT MACDONALD
2.0 /	Additiona	l Neighbourhood Plan Re	equirements							
Ref	Infrastructure Theme	Item	Detail	Cost		Cost Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
2.1	Access and Transport									
2.1.1		Off-Site Improvements to Road Network							1	
2.1.1.1			Redevelopment of A10 between Chapel Lane and Long Lane	£		£-		Assume to be included in traffic calming, other upgrades not directly related to development.	In accordance with agreed phasing plan prior to the commencement of	
2.1.1.2	2		Provision for future dual use path connection to Bawsey Country Park	£	-	£-		This will tie into an new development footpath, therefore no contribution related to development.	development	
2.1.1.3	8		Dual use path connection to the village of Middleton	£	519,552.47	£ 519,552.47	0%	Allowance for new 3m pavement on A47 south of New Road (approx. 1.7km)		
2.1.1.4	Ļ		Safe Cycle and Pedestrian Crossing at Rectory Lane	£	103,412.81	£ 73,866.29	44%	Allowance for 2 Toucan Crossings		
2.1.1.5	ō		Safe Cycle and Pedestrian Crossing at Chequers Lane		103,412.81	£ 73,866.29	44%	Allowance for 2 Toucan Crossings		
		Access and	Transport	1	£726,378.08	£667,285.05	ō			
2.2	Education									
	Green	Educa	ation		£0.00	£0.00)			
2.3	Infrastructure									
2.3.1		New nature reserve (5ha)								
2.3.1.1			5ha fenced off nature reserve	£	-			Assumed land take implications only. Scope to be defined	1	
	1-	Green Infra	astructure		£0.00	£0.00				
2.4	Community Facilities	Existing community facilities								
2.4.1	1	Existing community raciilities	Upgrade existing community facilites	£				A need for this would need to be assessed. At this point it is assumed that the communities will be serviced by new facilities.		
		Community	y Facilities		£0.00	£0.00)	racinues.		
2.5	Other									
2.5.1	Requirements	Allowance for expansion to West Winch Church graveyard								
2.5.1.1	1	onalon glavoyara	Land safeguarded only	£	-			Assume land take only.		
		Other Req	uirements		£0.00	£0.00				
		Total Cost of Neighbo	urhood Infrastructure	1	£726,378.08	£667,285.05	5			
Notes/ 0	Comments									
• • • • • • •	Cost data has to Optimism bias of Development at Contributions for Potential traffic Where trigger potents	peen sourced from a combination of in-house of 44% is taken for all standard civil engineen nd Supervision allowance of 10% is assumed or section 106 costs have been taken as a 10 diversion works are not included in these esti soints for delivery have not been provided to N ate can vary dramatically depending on many		for those a constructio orfolk, they	on techniques y have been	s used during constru provided by Gerald I	uction. Eve and have been ir	ncluded in this schedule in order to provide information on th	e inputs being used for viability	

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

			South Ea		Analysis or n Strategic (Growth Area	I		M MOTT MACDONALD
Project Date: 2	: No : 37787 0/07/2018		ic Growth Area				Revision: 18 Base Date: Q3 2018		
3.0 De	eveloper	Costs		-					
	nfrastructure Theme	ltem	Detail	Cost	Cost Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
	Access and Fransport	On-site road network							
3.1.1			Neighbourhood Streets - Site Masterplan	£ 16,284,968.04	£ 16,284,968.04	0%	Estimate from masterplan drawing 1565/01 SK306. Allowance; 5151m neighbourhood streets, 795m village centre streets and 10370m lanes and home roads. These	Costs to be apportioned and phased across the IDP area outside of the Hopkins	See Appendix A
3.1.1.2			Village Centre Streets - Site Masterplan		£ 2,175,525.06		have all been estimated as single carriageway all purpose road, and will be defined in detailed design stage. Scope to be defined.		
3.1.1.3 3.1.1.4			Lanes and Home Roads - Site Masterplan East to West Road - Hopkins Homes		£ 19,706,669.11 £ 2,227,214.68	44%	Estimate from Hopkins Homes Masterplan Drawing Allowance; East to west road: 1172m, Other Roads: 3982m	Costs to be apportioned and phased across the IDP area within the Hopkins Homes	
3.1.1.5			Hopkins Homes - Other Roads	£ 10,896,780.83		44%	These have all been estimated as single carriageway all purpose road, and will be defined in detailed design stage. Scope to be defined.	scheme only, on the basis of a cost per residential unit delivered.	
3.1.2		On site footpaths						O stata in ha anna d'anna i an d	E. A. Livia Dia d. D. al. (O)
3.1.2.1			Cycle/ Shared use pathways associated with road network	£ 4,332,938.31	£ 3,094,955.93	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 6326m from hopkins homes masterplan Scope to be defined.	Costs to be apportioned and phased across the whole IDP area on the basis of a cost	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata
3.1.2.2			2m footpath associated with road network	£ 4,626,306.14	£ 3,304,504.38	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 3982m from hopkins homes masterplan. Scope to be defined	per residential unit delivered	F+A Little Black Book (Q3 2010) mid-range at £87.69/m2. Pro rata
3.1.3 3.1.3.1		Cycle Routes	Not associated with road network (3m wide)	£ 957,955.34	£ 684,253.81	44%	Allowance; 3613m at 3m wide	In accordance with agreed phasing plan prior to the commencement of development	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata
		Ac	ccess and Transport	£70,859,266.36	£55,045,299.92	2			
		Total Cost of	f Neighbourhood Infrastructure	£70,859,266.36	£55,045,299.92			·	• •

All cost data has been uplifted to a common base date to 3Q18 using BCIS Tender Price Indices to arrive at current prices.

Cost data has been sourced from a combination of in-house project data and professional opinion based on past experience.

Optimism bias of 44% is taken for all standard civil engineering works and for all standard building costs.

Development and Supervision allowance of 10% is assumed for all works.

Contributions for section 106 costs have been taken as a 100% contribution for those costs necessary to development and 0% for those as a direct cost to the development. This has been derived with guidance from the Borough Council of King's Lynn and West Norfolk.

Potential traffic diversion works are not included in these estimates, it is assumed that these will be defined by the phasing and construction techniques used during construction.

Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes.

Disclaimer:

A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

				Cost Analysis for			M M
			South East King	gs Lynn Strategic	Growth Area		
Projec Date: 2	t No : 37787 20/07/2018		egic Growth Area		Revision: 18 Base Date: Q3 2018		
3.0 C	ther Infra Infrastructure	astructure				Trigger Point for Delivery/	
Ref	Theme	Item	Detail	Cost	Assumptions	Assumed Cost Phasing	Costing Source
3.5 3.5.1	Utilities	UKPN					
3.5.1		UKPN			Figures from UKPN Pre-development Enquiry Budget	Costs to be apportioned and	Pre-development Enquiry
3.5.1.1			Contestable works	£ 1,091,603.05	Estimate	phased across the IDP area	Pre-development Enquiry
3.J.1.2						on the basis of a cost per residential unit delivered.	
			Non-contestable works	£ 10,916,030.53			
3.5.2 3.5.2.1		National Grid				Costs to be opportioned and	
3.5.2.1						 Costs to be apportioned and phased across the IDP area 	Pro-rata from previous
			Strategic improvements to gas supply	£ 2,567,097.81	Allowance in lieu of National Grid feasibility study	on the basis of a cost per residential unit delivered, from	scheme
3.5.2.2				f 1.637.404.58	This is a highly conservative estimate based on two crossing points with complex slab protection measures. This assumption does not allow for diversion works at both	the point of 300 units delivered onwards.	Due to lack of site information a nominal figure has been used based on
3.5.2.3			Protection works to H/P Line	£ 1,637,404.58	crossing points.	-	diverting the gas main Pro-rata from previous
			Infrastructure works	£ 574,096.42	Allowance; assume no offsite diversion works.		scheme
3.5.2.4			On-site trenching	£ 898,484.23	Allowance; scope to be defined		Pro-rata from previous scheme
3.5.3		Anglian Water					
3.5.3.1			Mains water distribution	£ 3,820,610.69	Allowance; £1000 per dwelling, assume no upgrades required in lieu of response from Anglian Water. Assume 3500 dwellings. Assume no offsite diversion works. (Uplifted to 302018).	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Pro-rata from previous scheme
3.5.3.2					Allowance in lieu of response from Anglian Water. Assume		
			Foul Sewer Connections	£ 3,109,459.65	no upgrades and no off site diversion works.		Pro-rata from previous scheme
			Utilities	£24,614,786.98			
3.6	Other						
5.0	Requirements						
			Other Requirements	£0.00			
		Total Cos	st of Neighbourhood Infrastructure	£24,614,786.98		<u> </u>	
lotes/ C	omments			·			
iability p Disclaime	Cost data has b Optimism bias o Development ar Contributions for Potential traffic o Where trigger po urposes. ar: A project estima	een sourced from a combination f 44% is taken for all standard ci id Supervision allowance of 10% section 106 costs have been tai diversion works are not included i joints for delivery have not been p	cen as a 100% contribution for those costs necessary to development a n these estimates, it is assumed that these will be defined by the phasi rovided to Mott MacDonald by the Borough Council of Kings Lynn and and on many factors such as procurement, technology and availability of the second	ience. and 0% for those as a direct cost ing and construction techniques us West Norfolk, they have been pro	sed during construction. vvided by Gerald Eve and have been included in this schedul	e in order to provide information	on the inputs being used for
	The high level e	stimated costs contained within th	is report are produced as an indication of costs only and it is recomme s that are incurred as a result of the use of this project data.	ended that a detailed estimate is u	ndertaken to obtain a more accurate picture of any proposed	d project cost.	



Appendix C(ii)

Mott MacDonald 3988 Unit Scheme Infrastructure Cost and Trigger Point Assessment

	South Eas	Cost Analysis for st Kings Lynn Strategic Growth Area	M MOTT N	
oject Title: South East Kings Lynn Strategic Growth Area oject No: 377873 te: 20/07/2018		Revision: 19: Base Date: Q3 2018	MACDONALD	
troduction				
is document is provided with the intent of identifying	g the potentia	I costs of the infrastructure associated with the South	East Kings Lynn Strategic	
rowth Area. The costs are broken down into the follo	owing 3 main	sections;		
Section 106 Costs	Pages:	1 to 5		
Additional Neighbourhood Plan Requirements	Pages:	6		
Developer Costs	Pages:	7		
Other Infrastructure	Pages:	8		
ithin each of these sections, the costs are further bi	roken down as	s follows;		
1 Access and Transport : Q3 2018				
2 Education Costs 2018				
3 Green Infrastructure Q3 2018				
4 Community Facilities Q3 2018				
5 Utilities Q3 2018				
6 Other Requirements Q3 2018				
n explanation of the contents of the columns which a	appear in the	sheets are as follows;		
Fotal Cost " - The total calculated cost associated w	with the item o	finfrastructure		
		s. This only appears in the Section 106 costs section,	all other sections require full	
ontribution. Any blank (£0) values in the column, req	•		an other sections require full	
Assumptions" - Any assumptions made during the				
Frigger point for delivery/ Assummed Cost Phas	-			
ingger point for derivery Assummed COSt Flids	•			
Cost Source" - Where the associated costs have b	and brided tra			

					Sout		Analysis for n Strategic Grov	vth Area		-	M MINT MACDONALD
Project Date: 2	t No : 37787 :0/07/2018		ic Growth Area						Revision: 19 Base Date: Q3 2018		
.0 Sec	tion 106 C	osts									
	nfrastructure Theme	ltem	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
	Access and	i com	Boldi		Contribution		05	onde forodadi		Coot i ridoling	Cooking Course
	Transport	Minor improvement to Hardwick							- As Hardwick Transport Strategy, but with updated unit costs.		See Appendix A
1.1.1		for A10 arm	Single lane slip road	£ 547,301.90	£ 547,301.90	£ 380,070.76	£ 380,070.76	44%	- Ref 1.8 will require additional land costs. Which have not been included.	To be delivered by 2020 or by 400 dwellings	
1.1.2		A10 West Winch Bypss - Phase 1		2 011,001.00	2 011,001100	2 000,010.10	2 000,010110			•	1
1.1.2.1			Intermediate roundabout	£ 136,162.01	£ 136,162.01	£ 94,556.95	£ 94,556.95	44%		To be delivered by 2020 or by 400	1
1.1.2.2			200m single carriageway	£ 547,301.90	£ 547,301.90	£ 380,070.76	£ 380,070.76	44%	-	dwellings	
1.1.2.3			A47 roundabout	£ 217,859.23		£ 151,291.13	£ 151,291.13	44%	-		
1.1.3		A10 West Winch Bypss - Phase 2									1
1.1.3.1			2no at-grade roundabout on single carriageway	£ 272,324.03	£ 272,324.03	£ 189,113.91	£ 189,113.91	44%		To be delivered by 2026 or by 1600 dwellings)
1.1.3.2			2300m single carriageway	£ 6,293,971.85	£ 6,293,971.85	£ 4,370,813.78	£ 4,370,813.78	44%	7		
1.1.4		A47 east of Hardwick dualled							1		1
1.1.4.1			800m length widening of existing carriageway	£ 2,189,207.60	£ 2,189,207.60	£ 1,520,283.06	£ 1,520,283.06	44%		To be delivered by 2026]
1.1.5		Hardwick Interchange local widening within junction									
1.1.5.1			Widening parts of hardwick circulatory carriageway and exits	£ 1,368,254.75	£ 1,368,254.75	£ 950,176.91	£ 950,176.91	44%		To be delivered by 2026 or by 1600 dwellings)
1.1.5.2			Upgrade to Traffic Signals	£ 101,680.00	£ 101,680.00	£ 70,611.11	£ 70,611.11	44%			1
1.1.6 1.1.6.1		A47 roundabout retained but expanded	400m length slip road						-	To be delivered by 2026	4
1.1.6.2			Dual carriageway roundabout	£ 1,094,603.80		£ 760,141.53	£ 760,141.53	44%	_	TO be delivered by 2020	
1.1.7		A47 flyover dualled	Buai camageway loundabout	£ 217,859.23	£ 217,859.23	£ 151,291.13	£ 151,291.13	44%	-		1
1.1.7		A47 hyover dualled	1no new viaduct 175m long x 9m wide						-	To be delivered by 2031/35	4
1.1.8		A149 dualled	The new vialable from long x on wide	£ 8,934,975.00	£ -	£ 6,204,843.75	£ -	44%	-	10 be delivered by 2001/00	4
1.1.8.1		AT45 dualied	800m length widening of existing						-	To be delivered by 2031/35	4
			carriageway	£ 2,189,207.60	£ -	£ 1,520,283.06	£ -	44%			
1.1.8.2			Existing roundabout upgraded to dual roundabout	£ 217,859.23	£ -	£ 151,291.13	f -	44%			
1.1.9		Traffic Calming through West		2 211,000.20	-	101,231.10			- Allowance; Scope of traffic calming to be defined, nominal sum		
1.1.9.1		Winch Village	Nominal Sum						of £0.5m as suggested in NCC Document. Assume safe crossings are allowed for in this figure. (Uplifted to 3Q2018).	To be commenced within 12	Nominal sum, taken
				£ 538,194.44	£ 538,194.44	£ 538,194.44	£ 538,194.44	0%	crossings are allowed for in this ligure. (oplined to 502016).	months of development	from previous scheme.
7	Access and	Bus Strategy									
	Fransport cont		To be confirmed						 Contiributions will need to be sought, however bus service improvements are based on business case. 		
Access and Transport Total			otal	£ 24,866,762.56	£ 13,524,720.74	£ 17,433,033.42	£ 9,556,615.48				
.2 E	Education										
1.2.1		Contributions towards new facilities									
1.2.1.1			West Winch Primary School Capacity Increase					0%	As advised by NCC Nursery assumed to be part of primary school provision	£100,000 on commencement of the development. £1,000,000 on occupation of 100 new dwellings. (6 months post commencement) Balance (£1,345,240) on occupation of 500 new dwellings across the overall IDP area (30	Potential County Counci Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
				£ 2,445,240.00	£ 2,445,240.00	£ 2,445,240.00	£ 2,445,240.00			months post commencement	

					Sout		Analysis for nn Strategic Grow	vth Area			M MINT MACDONALD
Projec Date:	:t No : 37787 20/07/2018		ic Growth Area						Revision: 19 Base Date: Q3 2018		
1.0 Se	ction 106 C	osts									
Ref.	Infrastructure Theme	ltem	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.2.1.2			420 place primary school (2ha)	£ 6,900,000.00	£ 6,900,000.00	£ 6,900,000.00	£ 6,900,000.00	0%		 2ha School site purchased on commencement of the development Transfer of a fully serviced school site after occupation of the 100th welling (6 months post commencement) 2520,000 on transfer of the school site (costs for design and planning) (6 months post commencement) £1,000,000 on occupation of the 200th dwelling. (12 months post commencement) £240,000 on occupation of the 400th dwelling. (24 months post commencement) E3280,000) on scupation of the 600th dwelling. (36 months after commencement) 	
1.2.1.3	Education cont	Contributions towards new facilities cont	315 place primary school (1.5ha, total 2ha safeguarded)	£ 6.900.000.00	£ 6,900,000.00	£ 6,900,000,00	£ 6,900,000.00	0%	As advised by NCC Nursery assumed to be part of primary school provision	 2 ha School site to be purchased 3 years prior to the point when 2000 units are estimated to be occupied (ie. 84 months post commencement) School to be completed by the point when 2000 units are occupied across the wider IDP are and cost apportioned across the previous 3 years (25,150,000 apportioned between 84 and 120 post commencement) 	Potential County Could Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016.
1.2.1.4			Nursery provision	£ -	£ -	£ -	£ -		1		1
1.2.1.5			High School Capacity 640 place Increase	£ 11,229,440.00	£ 11,229,440.00	£ 11,229,440.00	£ 11,229,440.00	0%		To be paid by in four equal instalments on occupation of 400 dwellings of each respective phase	-
1.2.1.6			Sixth Form Capacity 63 place Increase	£ 1,198,827.00	£ 1,198,827.00			0%		To be paid by in four equal instalments on occupation of 400 dwellings within each respective phase.	
		Education Total		£ 28,673,507.00	£ 28,673,507.00	£ 28,673,507.00	£ 28,673,507.00				
1.3	Green Infrastructure	Neighbourhood parks, allotments								Costs to be apportioned and	Pro-rata from previous
1.3.1		& open spaces with eaquipped								phased across the IDP area on the	
1.3.1.1		sports and play facilities. Capital Costs.	Formal recreation facilities such as playing fields (10ha)	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	£ 5,185,467.56	0%	50% of total open space area. Assume 20ha total	basis of a cost per residential unit delivered.	
1.3.1.2			Play Areas (6ha)	£ 12,786,084.40	£ 12,786,084.40		£ 12,786,084.40	0%	30% of total open space area from DM 16. Assume 20ha total	1	
1.3.1.3			Allotments (0.6ha)	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 12,786,084.40 £ 104,774.86	£ 104,774.86	0%		+	
1.3.1.4			Other green spaces (4ha)	£ 355,169.01	£ 355,169.01	£ 355,169.01	£ 355,169.01	0%	20% of total open space area. Assume 20ha total	1	
1.3.1.5		Najabbaurbaad aarka alkeimenia	Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 1,988,946.46	£ 1,988,946.46			0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.		
1.3.2		Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities. Maintainance Costs.	Formal recreation facilities such as playing fields (10ha)	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	£ 1,391,446.71	0%		+	

					Sout		Analysis for nn Strategic Grow	vth Area		, in the second s	М _{иотт} М
Projec	t Title: Sou t No: 37787 20/07/2018	th East Kings Lynn Strateg '3	ic Growth Area				-		Revision: 19 Base Date: Q3 2018	N	ACDONALD
1.0 Se	ction 106 C	osts									
Ref.	Infrastructure Theme	ltem	Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
1.3.2.2	Green Infrastructure cont	Neighbourhood parks, allotments & open spaces with eaquipped sports and play facilities.	Play Areas (6ha)	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	£ 4,350,589.52	0%		 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	Pro-rata from previous scheme
1.3.2.3		Maintainance Costs cont	Allotments (0.6ha)	£ 20,407.77	£ 20,407.77	£ 20,407.77	£ 20,407.77	0%		delivered.	
1.3.2.4			Other green spaces (4ha)	£ 636,973.13	£ 636,973.13	£ 636,973.13	£ 636,973.13	0%		1	
1.3.2.5			Natural and semi natural green spaces inc. footpath links and hedgegrows (i.e. landscape buffers) (28ha)	£ 995,656.24	£ 995,656.24	£ 995,656.24	£ 995,656.24	0%	Assume landscape buffer zones are approx 700m x 164m and 700m x 236m.		
1.3.2.6			Interim Habitat Mitigation Payment	£ 200,641.03	£ 200,641.03	£ 200,641.03	£ 200,641.03	0%	Nominal contribution of £50 per home, as required by SADMP, assume 3988 homes. (Uplifted to 3Q2018).		SADMP
	Green Infrastructure Total			£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69	£ 28,016,156.69				
1.4	Community Excilition										
1.4.1	Facilities	Neighbourhood Centres									
1.4.1.1			Community Centre 1 (Assumed 1000m ²)	£ 2,447,133.76	£ 2,447,133.76	£ 2,008,841.15	£ 2,008,841.15	24%	 Assumed as one large community centre and 2 smaller community centres. The costs shown are the estimated physical build costs of the 	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit 	F+A Little Black Book (Q1 2011) mid-range at 1277.77/m ²
1.4.1.2			Community Centre 2 (Assumed 500m ²) Community Centre 3 (Assumed	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%	centres.	delivered.	
-			500m ²)	£ 1,223,566.88	£ 1,223,566.88	£ 1,004,420.57	£ 1,004,420.57	24%			
1.4.1.4			Sports Centre (1500m2)	£ 3,105,575.59	£ 3,105,575.59	£ 2,504,496.44	£ 2,504,496.44	24%	Assumed 1500m2 sports halls (approx. 4 hall). However, this may change in detailed design. - The costs shown are the estimated physical build costs of the centres.	-	Sport England Facility Costs, April Revision 001, 2016
1.4.1.5			1no. MUGA Facilitiy (782m2)	£ 203.299.53	£ 203.299.53			24%	Taken from Sport England Guidance	-	
1.4.1.6				2 203,233.33	2 200,200,00	2 100,001.20	2 100,001.20	2178	- Land to be safeguarded only.	+	F+A Little Black Book (Q1 2011) mid-range at £1291.66/m ²
			Health Centre	£ -		£ -					£1291.00/III
1.4.1.7			3no. Shops (Assumed 280m ²)	£ -		£ -			- Land to be safeguarded only.		
1.4.1.8			NLIS library contributions	£ 979,128.21	£ 979,128.21	£ 979,128.21	£ 979,128.21	0%	 Taken as £244 per dwelling (assuming 3988 dwellings) as advised by BCKLWN. (Uplifted to 3Q2018). 		Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016
		Community Facilities T	otal	£ 9,182,270.85	£ 9,182,270.85	£ 7,665,258.18	£ 7,665,258.18				
1.5	Utilities										
1.5.1		SADMP Fire Service Requirement					1				
1.5.1.1		Disalania (CUD): 1/1/1/1/1/	Fire hydrants Contributions	£ 70,167.03	£ 70,167.03	£ 70,167.03	£ 70,167.03	0%	Allowance for 1 hydrant per 50 homes (taken as 4000 (rounded up to the nearest 60)homes) and one additional hydrant per school and neighbourhood centre at £816 each. (Uplifted to 3Q2018).	Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered.	Potential County Council Infrastructure Requirements - Proposed Housing Development Document, dated 12 October 2016
1.5.2		Strategic SUDS Infrastructure									
1.5.2.1			Detention Basins; Capital Cost	£ 6,359,864.96	£ 6,359,864.96	£ 5,128,923.36	£ 5,128,923.36	24%	Allowance for detention basins which are to store a total of 78317.4m3 of water. Works to existing watercoursed to be defined. Scope to be defined.	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Cost details taken from Environmental Agency Report SC080039/R9 (March 2015). Required
1.5.2.2			Detention Basins; 15year Maintainance Cost	£ 349,980.88	£ 349,980.88	£ 349,980.88	£ 349,980.88	24%			volume of storage taken from: North Runcton and West Winch Surface Water Management Strategy (April 2014).

						Sout		Analysis for In Strategic Grow	/th Area			
Pro	ect Title: Sou ect No: 3778 : 20/07/2018	73	gs Lynn Strategio	Growth Area						Revision: 19 Base Date: Q3 2018		
1.0	Section 106 C	Costs										
Ref.	Infrastructure Theme	ltem		Detail	Total Cost	Contribution	Total Cost Without OB	Contribution Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source
			Utilities Total		£ 6,780,012.88	£ 6,780,012.88	£ 5,549,071.27	£ 5,549,071.27				
	Total	Cost of Strateg	gic Infrastructure (C	ontribution Portion)	£86,176	6,668.15	£79,460	0,608.62		·		
		Total Cos	st of Strategic Infras	tructure	£97,518	3,709.98						
Votes	/ Comments											
	Cost data has b Optimism bias o Development a Contributions fo Potential traffic	been sourced fro of 44% is taken for nd Supervision a or strategic Hards diversion works	m a combination of in for all standard civil en allowance of 10% is as wick infrastructure imp are not included in the	provements its taken as 19% based on t ase estimates, it is assumed that these v	binion based on past exp of buildings as recomment he percentage of traffic f vill be defined by the pha	erience. nded by HM Treasury si low presented in the Ha sing and construction te	rdwick Transport Strateg	gy. This was taken as the onstruction.		e morning and evening peak flows identified. Jle in order to provide information on the inputs being		

ate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an A project

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost. Mott MacDonald accepts no liability for any losses that are incurred as a result of the use of this project data.

Cost Analysis for South East Kings Lynn Strategic Growth Area												
Projec	ct Title: S ct No : 37 20/07/20		gic Growth Area						Revision: 19 Base Date: Q3 2018			
2.0 Ad	ditional	Neighbourhood Plan Req	uirements			-						
tef T	nfrastructure 'heme	ltem	Detail	Cost		Cost	Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source	
	ccess and ransport											
2.1.1		Off-Site Improvements to Road Network										
2.1.1.1			Redevelopment of A10 between Chapel Lane and Long Lane	£	-	£			Assume to be included in traffic calming, other upgrades not directly related to development.	In accordance with agreed phasing plan prior to the commencement of		
2.1.1.2			Provision for future dual use path connection to Bawsey Country Park	£	-	£	-		This will tie into an new development footpath, therefore no contribution related to development.	development		
2.1.1.3			Dual use path connection to the village of Middleton	£	519,552.47	£	519,552.47	0%	Allowance for new 3m pavement on A47 south of New Road (approx. 1.7km)			
2.1.1.4			Safe Cycle and Pedestrian Crossing at Rectory Lane	£	103,412.81	£	73,866.29	44%	Allowance for 2 Toucan Crossings			
2.1.1.5			Safe Cycle and Pedestrian Crossing at Chequers Lane	£	103,412.81	£	73,866.29	44%	Allowance for 2 Toucan Crossings			
		Access and	Transport		£726,378.08		£667,285.05					
.2 ^E	ducation			-								
		Educa	line .		£0.00		£0.00					
G	Green	Euuca		-	20.00		20.00					
.3 lr 2.3.1	nfrastructure	New nature reserve (5ha)		-								
2.3.1			5ha fenced off nature reserve	6		f			Assumed land take implications only. Scope to be defined			
2.3.1.1		Green Infras		L	£0.00	L	£0.00					
4 C	Community	Green mina										
2.4.1	acilities	Existing community facilities		-								
2.4.1.1			Upgrade existing community facilites	£	-	£	-		A need for this would need to be assessed. At this point it is assumed that the communities will be serviced by new facilities.			
		Community	Facilities		£0.00		£0.00					
	Other Requirements	All										
2.5.1		Allowance for expansion to West Winch Church graveyard										
2.5.1.1			Land safeguarded only	£	-	£	-		Assume land take only.			
		Other Requ	irements		£0.00		£0.00					
		Total Cost of Neighbou	rhood Infrastructure		£726,378.08		£667,285.05					
lotes/ Cor	mments											

to 3Q18 using BCIS Tel Cost data has been sourced from a combination of in-house project data and professional opinion based on past experience.

Optimism bias of 44% is taken for all standard civil engineering works and 24% for all standard buildings as recommended by HM Treasury supplementary green book guidance.

Development and Supervision allowance of 10% is assumed for all works.

Contributions for section 106 costs have been taken as a 100% contribution for those costs necessary to development and 0% for those as a direct cost to the development. This has been derived with guidance from the Borough Council of King's Lynn and West Norfolk.

Potential traffic diversion works are not included in these estimates, it is assumed that these will be defined by the phasing and construction techniques used during construction. Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes. Disclaimer:

A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be sed when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

	Cost Analysis for South East Kings Lynn Strategic Growth Area											
Proje Date:	ect Title: S ect No: 37 20/07/20 eveloper	7873 018	ynn Strategic Growth Area				Revision: 19 Base Date: Q3 2018					
Ref	Infrastructure Theme	Item	Detail	Cost	Cost Without OB	OB level to be used once forecast	Assumptions	Trigger Point for Delivery/ Assumed Cost Phasing	Costing Source			
3.1 3.1.1 3.1.1.1	Access and Transport	On-site road network	Neighbourhood Streets - Site Masterplan				Estimate from masterplan drawing 1565/01 SK306. Allowance; 5151m neighbourhood streets, 795m village	Costs to be apportioned and phased across the IDP area	See Appendix A			
3.1.1.2			Village Centre Streets - Site Masterplan Lanes and Home Roads - Site Masterplan	£ 16,284,968.04 £ 2,175,525.06 £ 28,377,603.52	£ 16,284,968.04 £ 2,175,525.06 £ 19,706,669.11	0%	have all been estimated as single carriageway all purpose road, and will be defined in detailed design stage.	outside of the Hopkins Homes scheme only, on the basis of a cost per residential unit delivered.				
3.1.1.4			East to West Road - Hopkins Homes		£ 2,227,214.68	44%	Estimate from Hopkins Homes Masterplan Drawing Allowance; East to west road: 1172m, Other Roads: 3982m These have all been estimated as single carriageway all	Costs to be apportioned and phased across the IDP area within the Hopkins Homes scheme only, on the basis of				
3.1.1.5			Hopkins Homes - Other Roads	£ 10,896,780.83	£ 7,567,208.91	44%	purpose road, and will be defined in detailed design a cos	a cost per residential unit delivered.				
3.1.2 3.1.2.1		On site footpaths	Cycle/ Shared use pathways associated with road network	£ 4,332,938.31	£ 3,094,955.93	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 6326m from hopkins homes masterplan Scope to be defined.	area on the basis of a cost	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata			
3.1.2.2		Cycle Routes	2m footpath associated with road network	£ 4,626,306.14	£ 3,304,504.38	44%	Allowance; 10016m estimated from site masterplan drawing 1565/01 SK306. Allowance; 3982m from hopkins homes masterplan. Scope to be defined	per residential unit delivered	F+A Little Black Book (Q3 2010) mid-range at £87.69/m2. Pro rata			
3.1.3.1			Not associated with road network (3m wide)	£ 957,955.34	£ 684,253.81	44%	Allowance; 3613m at 3m vide	In accordance with agreed phasing plan prior to the commencement of development	F+A Little Black Book (Q3 2010) mid-range at £154.17/m2. Pro rata			
		•	Access and Transport	£70,859,266.36	£55,045,299.92	2						
lotes/ C	omments	Total C	Cost of Neighbourhood Infrastructure	£70,859,266.36	£55,045,299.92	2						

All cost data has been uplifted to a common base date to 3Q18 using BCIS Tender Price Indices to arrive at current prices.

Cost data has been sourced from a combination of in-house project data and professional opinion based on past experience.

Optimism bias of 44% is taken for all standard civil engineering works and 24% for all standard buildings as recommended by HM Treasury supplementary green book guidance.

Development and Supervision allowance of 10% is assumed for all works.

Contributions for section 106 costs have been taken as a 100% contribution for those costs necessary to development and 0% for those as a direct cost to the development. This has been derived with guidance from the Borough Council of King's Lynn and West Norfolk.

Potential traffic diversion works are not included in these estimates, it is assumed that these will be defined by the phasing and construction techniques used during construction.

• Where trigger points for delivery have not been provided to Mott MacDonald by the Borough Council of Kings Lynn and West Norfolk, they have been provided by Gerald Eve and have been included in this schedule in order to provide information on the inputs being used for viability purposes. Disclaimer:

• A project estimate can vary dramatically depending on many factors such as procurement, technology and availability of resources (e.g. materials, labour and plant). These will differ within any individual project, sometimes resulting in a cost that does not reflect the conditions met on site therefore care should be exercised when using an estimate.

The high level estimated costs contained within this report are produced as an indication of costs only and it is recommended that a detailed estimate is undertaken to obtain a more accurate picture of any proposed project cost.

				Analysis for			M M
			South East Kings Lyn	n Strategic	Growth Area		
Proje Date	ect No: 37 20/07/20	018	egic Growth Area		Revision: 19 Base Date: Q3 2018		
3.0 C		astructure					
Ref	Infrastructure Theme	Item	Detail	Cost	Assumptions	Assumed Cost Phasing	Costing Source
3.5	Utilities						
3.5.1		UKPN					
3.5.1.1			Contestable works	£ 1,091,603.05	Figures from UKPN Pre-development Enquiry Budget	Costs to be apportioned and	Pre-development Enquiry
3.5.1.2					Estimate	phased across the IDP area on the basis of a cost per residential unit delivered.	
			Non-contestable works	£ 10.916.030.53		residential unit delivered.	
3.5.2		National Grid		2 10,010,000.00			
3.5.2.1						Costs to be apportioned and	
			Strategic improvements to gas supply	£ 2,567,097.81	Allowance in lieu of National Grid feasibility study	phased across the IDP area on the basis of a cost per	Pro-rata from previous scheme
3.5.2.2					This is a highly conservative estimate based on two crossing points with complex slab protection measures.	residential unit delivered, from the point of 300 units delivered onwards.	Due to lack of site information a nominal figure
			Protection works to H/P Line	£ 1,637,404.58	This assumption does not allow for diversion works at both crossing points.		has been used based on diverting the gas main
3.5.2.3			Infrastructure works	£ 574,096.42	Allowance; assume no offsite diversion works.		Pro-rata from previous scheme
3.5.2.4			On-site trenching	£ 898,484.23	Allowance; scope to be defined		Pro-rata from previous scheme
3.5.3		Anglian Water					
3.5.3.1			Mains water distribution	£ 3,820,610.69	Allowance; £1000 per dwelling, assume no upgrades required in lieu of response from Anglian Water. Assume 3988 dwellings. Assume no offsite diversion works. (Uplifted to 3Q2018).	 Costs to be apportioned and phased across the IDP area on the basis of a cost per residential unit delivered. 	Pro-rata from previous scheme
3.5.3.2			Foul Sewer Connections	£ 3,109,459.65	Allowance in lieu of response from Anglian Water. Assume no upgrades and no off site diversion works.		Pro-rata from previous scheme
		Utilit	ies	£24,614,786.98			
3.6	Other						
	Requirements						
		Other Req	Luirements	£0.00			
		Total Cost of Neighbo	urhood Infrastructure	£24,614,786.98			
Notes/ C	omments						
• • • •	Cost data has be Optimism bias o Development an Contributions for Potential traffic o Where trigger po	een sourced from a combination of in-house p of 44% is taken for all standard civil engineerin nd Supervision allowance of 10% is assumed I r section 106 costs have been taken as a 100' diversion works are not included in these estim	8 using BCIS Tender Price Indices to arrive at current prices. roject data and professional opinion based on past experience. g works and 24% for all standard buildings as recommended by HM ¹ or all works. % contribution for those costs necessary to development and 0% for nates, it is assumed that these will be defined by the phasing and con ott MacDonald by the Borough Council of Kings Lynn and West Norfor the States and the these the state of the states and the states of the states	those as a direct cost struction techniques u	to the development. This has been derived with guidance fro sed during construction.		
met on si •	er: A project estima ite therefore care The high level es	e should be exercised when using an estimate stimated costs contained within this report are	actors such as procurement, technology and availability of resources produced as an indication of costs only and it is recommended that a urred as a result of the use of this project data.			-	does not reflect the conditions

D. Potential County Council Education Infrastructure Requirements – Proposed Housing Development – South East King's Lynn Strategic Growth Area

Potential County Council infrastructure Requirements - Proposed Housing Development

Address: West Winch Growth Area (3,500 Dwellings)

Date: 10th January 2018

Preface

The requirements below would need to be addressed in order to make the development acceptable in sustainable terms through the delivery of necessary infrastructure. The funding of this infrastructure would be through Planning obligations / condition.

Education

- 1.1 It is understood that the proposed development comprises 3,500 multi-bed houses. The County Council does not seek education contributions associated with 1-bed units and only seeks 50% contributions for multi-bed flats. Therefore in net education terms this represents the equivalent of 3,500 dwellings, which will generate:
 - 1. Early Education 3,500 dwellings x 0.096 children = 336 children (2-4);
 - 2. Primary School -3,500 dwellings x 0.261 children = 914 children (5 -11);
 - 3. High School -3,500 dwellings x 0.173 children = 606 children (11 16);
 - 4. College/6th Form 3,500 dwellings x 0.017 children = 60 children (16-18).
- 1.2 The Department for Education (DfE) provide a range of "basic need multipliers" (2008) which take into account the different school age ranges (see below).

Sector	Basic Need Multiplier Cost Per Place (2008)
Early Education (2-4)	11,644
Primary (4-11)	11,644
High School (11-16)	17,546
Sixth Form (16-18)	19,029

Table 1 Cost per Place

^{1.3} Based on the above demographic and DfE cost multipliers, the following standard education charges arise per dwelling, if there is insufficient capacity at local schools:

Table 2 Cost per Dwelling

(Age Range)	C	Cost per dwelling (£)	
	House (Multi-bed)	Flat (Multi – bed)	1-Bed Unit
Nursery	1,118	559	0
Primary	3,039	1,520	0
High	3,035	1,518	0
Sixth Form	323	162	0
Total	7,515	3,759	0

1.4 **Table 3 The current situation at local schools is as follows:**

School	Capacity	Numbers on Roll (May 2017)	Spare Capacity
Early Education Sector (2-4)	556	456	+100
Middleton Church of England Primary Academy (4-11) (excluding mobile)	120	73	+47
West Winch Primary School (4- 11)	210	209	+1
King's Lynn Academy (11-16)	900	644	+256
King Edward VII Academy (11-16) (excluding mobiles)	1100	1035	+65
King Edward VII Academy (16-18) (excluding mobiles)	218	202	+16
Springwood High School (11-16)	1350	1356	-6

Springwood High School (16-18)	354	344	+10

1.5 **Claim**

Early Education:

From September 2017 additional places have been needed due to the introduction of 30 Hours Free Entitlement for eligible families.

Primary School:

3,500 dwellings – To accommodate the numbers of primary age children likely to be generated from a development of 3,500 dwellings the County Council would wish to increase the capacity of West Winch Primary school and plan for 2 new primary phase schools as follows:

From a development of 3,500 dwellings 914 pupils will arise in the primary age range (4-11). West Winch Primary school currently has a capacity of 210 (1FE). If this is increased to 2FE to make a 420 place primary school (i.e. an additional 210 places) and another 2FE new primary school is built (420 places), and a 1.5 form entry (315 places) primary school is also built, including nursery provision for both these schools, the number of children generated by the proposed new development would be able to be accommodated.

The additional places generated from the proposals above equates to 945 but as outlined above a development of 3,500 dwellings will generate 914 pupils. Therefore of the 210 places required to expand the existing primary school to 2FE only 179 places will be sought (210-31).

Therefore the following would be requested:

- Contributions of 179 (210-31) x £11,644 = **£2,084,276** in order to double the capacity of West Winch Primary School.
- 2.0 ha of land free of charge, to accommodate a 2FE school.
- Centrally located within the development.
- The cost of building a new 420 place primary school is in the region of **£6.9 million**.
- 1.5 ha of land free of charge, to accommodate a 1.5FE school but 2 ha safeguarded to allow for expansion to a 2FE school.
- Centrally located within the development.
- The cost of building a new 315 place primary school is in the region of **£5.15 million**.

High School:

A total of 3,500 dwellings and other permitted in the area will mean that there will be no spare capacity in the High school sector.

Although there is currently spare capacity at King's Lynn Academy and King Edward VII Academy, numbers of children already in the primary system (YGR-

Y6) feeding into the King's Lynn High Schools will take all the capacity at these schools without the impact of additional housing.

3,500 dwellings - Contributions would therefore be sought for High School places: $606 \times \pounds 17,546 = \pounds 10,632,876$.

The contributions will be used to increase capacity within the King's Lynn high schools.

Sixth Form

A total of 3,500 dwellings and other permitted in the area will mean that there will be no spare capacity in the sixth form sector.

3,500 dwellings – contributions as follows: $60 \times \pounds 19,029 = \pounds 1,141,740$.

The contributions will be used to increase capacity within the King's Lynn high schools.

1.6 Should you have any queries with the above figures or comments please call Peter Dawes (Children's Services Department) on 01603 222356 or email him at <u>peter.dawes@norfolk.gov.uk</u>

Fire Service

2.1 **Residential:** Norfolk Fire Services have indicated that the proposed development will require 1 hydrant per 50 dwellings (on a minimum 90-mm main) for the residential development at a cost of £815 per hydrant. The number of hydrants will be rounded to the nearest 50th dwelling where necessary.

School and Local Centre:

An additional two hydrants at a cost of £815 each will be required to serve the School and Local Centre and should provide a minimum sustained outlet discharge in line with the National guidance document on the provision of firefighting water, and meet the requirements of Building Regulations Approved Document B volume 2 sections 15 & 16 (Fire Hydrants / water supplies and Vehicle access.

- 2.2 Please note that the onus will be on the developer to install the hydrants during construction to the satisfaction of Norfolk Fire Service and at no cost. Given that the works involved will be on-site, it is felt that the hydrants could be delivered through a planning condition.
- 2.3 Should you have any queries please call Trish Bond (Norfolk Fire Service) on 01603 819714 or email on <u>patricia.bond@fire.norfolk.gov.uk</u>

Library Provision

3.1 In order to cater for the additional library service usage resulting from the increased population from the development, Norfolk Library and Information

Service (NLIS) would need to increase the size of the existing library in Kings Lynn or provide a sub-library linked to some other community facility within the new development, if there is such provision in the development plan. This could be a community hall, retail area or even a doctor's surgery for instance.

NLIS would be seeking £244 per dwelling to increase the lending capacity of Kings Lynn library or to provide a sub-library on the development site. If a new library is located on the whole (3500 dwelling) new development then a contribution towards a suitable site would be required. In the event that NLIS were unable to extend the existing library or provide a new facility we would seek a fall back contribution of £75 per dwelling to improve the existing facility.

3.2 Should you have any queries with the above comments please call lan McCann (Cultural Services) on 01603 638117 or email on <u>ian.mccann@norfolk.gov.uk</u>

Environment

- 4.1 **General Comments:** As outlined in the Norfolk County Council Planning Obligations Standards (April 2016), the scope of the County Council's green infrastructure responsibilities include:
 - Public Rights of Way
 - Norfolk Trails
 - Ecological Networks

Green infrastructure should be included within the proposed site in line with local policy. Connections into the local Green Infrastructure (GI) network, including Public Rights of Way (PRoW) and ecological features, should be considered alongside the potential impacts of development. We would advise the Local Planning Authority that a maintenance/mitigation contribution or commuted sum for new and existing GI features may be required in addition to the County response, in order comply with local policy. Thus allowing the local GI network to facilitate the development without receiving negative impact and equally, allow the development to integrate and enhance the existing network.

Specific comments:

This large development site has a number of elements of existing green infrastructure (GI) within or adjacent to it. These include:

- Registered common land (Hardwick Narrows, West Winch Common, North Runcton Common and Setchy Common) with open access under the CROW Act;
- Numerous Public Rights of Way (including North Runcton RB3, RB4, RB6, BR4; West Winch FP1, FP2, RB1, and RB2);
- Several County Wildlife Sites (including CWS390: West Winch Common; CWS399: Meadow Adj. to A10; and CWS2079: Brook Meadow);
- The River Nar SSSI to the south of the development site; alongside which on the northern bank is the Nar Valley Way, a major trail in the Norfolk

Trails family. In this area the trail uses existing rights of way.

Mitigation should be provided by the developer for direct impacts on existing GI elements. Open access commons, PRoW and the Nar Valley Way are likely to receive far greater footfall as a result of development than they do currently, this means that it is very likely that both new access infrastructure and resilience measures will need to be put in place.

An appropriate assessment will need to be made in order to establish whether the existing commons are suitable for greater scale of public access, or whether it is of benefit to biodiversity for them to remain relatively undisturbed as at present. In either case mitigation and/or other suitable alternatives will be required.

Norfolk County Council will require these works to ensure that no long-term increased management costs are incurred as a direct result of the development. It is likely that some of these measures can be delivered by way of Highway Condition, particularly where Public Rights of Way are to be affected, and where new highway infrastructure is required. Other works and infrastructure provision for common land will require a financial contribution through s106 agreement. These works will ensure that no long-term increased management costs are incurred to the landowner or Norfolk County Council as a direct result of the development.

Local GI Network

The local GI network in this location is very much on a north-south orientation, with commons and footpath(s) to the east of the Masterplan boundary and others in the west. There are clear opportunities to create a number of east – west links from the development to these PRoW and access areas, as outlined in the emerging West Winch and North Runcton Neighborhood Plan (Figure 7, Settlement Concept, pp.36).

Consideration should be given to the use of detached footways and the formalising of footpaths through greenspace by dedication. The creation of new footpaths in areas of open space would enhance and integrate the local GI network and create positive additions to the local PRoW network.

A new link from the development area to the long-distant path, the Nar Valley Way, would also be very beneficial and should also be explored. In this respect we understand that a permissive path already exists from Setchy Road to the north bank of the Nar and consideration should be given to formally registering this as PRoW.

A clear requirement in terms of growth in this sector is the provision of nonmotorised access to Kings Lynn. This should be a major consideration in planning of GI in the Masterplan. There is an opportunity to create a link on the disused railway between the proposed development and the existing/proposed recreation facility at Bawsey Pits. This route still mostly exists but there would need to be some works including a pedestrian bridge across the railway. It is recommended that a Landscape and Green Infrastructure Management Plan or suitable alternative be required for this, and the wider area to enable the timely integration, delivery and management of the Local GI Network. The requirements of the emerging policies of the West Winch and North Runcton Neighborhood Plan should also be considered in the development of the wider masterplan.

The comments made previously by the Natural Environment Team with regards to obligations for Application 13/10615/OM still apply in the northern section (Land west of Constitution Hill, North Runcton/West Winch), namely:

- To the west instate a link Footpath to North Runcton RB2; this links to West Winch (3km) and the Nar Valley Way at Setchey (5km)
- To the south east instate a link Bridleway/Cycle route to North Runcton RB3 (Illington Lane) :- this gives the potential to create a circular cycle/walk route around North Runcton (inc N. Runcton RB3/BR4/RB6 & some quiet roads)
- Circular walk around the parameter of the development including small circular link for school & landscape area to the south.
- 4.2 Should you have any queries with the above comments please call David White on 01603 222058 or email on <u>david.white.etd@norfolk.gov.uk</u>

Highways and Transport Provision

5.1 I understand that you have contacted the County Council's Highways Development Control Manager separately on this proposal.

Lead Local Flood Authority

6.1 If you have consulted Norfolk County Council as Lead Local Flood Authority and statutory consultee for surface water drainage, they will be responding separately.

	ceived from Hopkins Homes a]
should be n	oted that all costs commented	Responses to IDP Report	Third Quarter 2018 (3Q2018)		
	Relevant Section	Relevant Sub section	Comments	Specific Comments	*all costs have been updated to 3rd quarter 18.
GVA on behalf of Northern Trust	Strategic Infrastructure: Transport	Table 3: Infrastructure Costs Highways	Table 3 of the IDP sets out some major (mainly off-site) transport costs associated with the SEKLSGA, including the costs for the relief road. This is somewhat of a surprise as it was our client's implicit understanding, as stated when we met on 3rd November, the development itself would not be liable for the full funding of the road infrastructure. This was discussed with the Chief Executive of BCKLWN on 3rd September 2015 in which a firm commitment to seek external funding for the relief road and other infrastructure was given to ensure the viability of the overall project. Please refer to the minutes of the meeting and covering email attached herewith.	Funding is being sought.	
GVA on behalf of Northern Trust	Strategic Infrastructure: Transport	Table 3: Infrastructure Costs Highways	Turning our attention to the costs within Table 3 (including the calculations within the IDP Appendices that support the figures presented in Table 3) we note the addition of optimism bias and allowances for design and supervision. Curtin's have undertaken a review of the information and raised doubts on some of the costs included within the IDP, can we provide further evidence for items: 2. A10 West Winch Bypass Phase 1 4. A47 east Hardwick dualling 6. A47 roundabout retained but expanded 7. A47 flyover 8. A149 dualling	Further evidence of costs has been provided and updated to reflect 3Q2018 values	
GVA on behalf of Northern Trust	Strategic Infrastructure: Education	Table 3 Appendix D	Although the IDP sets out at Table 3 of Appendix D the current situation on space capacity at a number of local schools in the area, there are several which the IDP does not account for within its assessment. We have attached a map which identifies the schools within the local area and those which have not been included in the IDP's assessment of capacity. We do accept that the majority of schools not included appear to primary and this could be due to their distance from the site (primary generally required to be closer). However, there does appear to be at least one primary school (St Michael's) which should have been included in the assessment.	The NCC Education department provided the capacity report and developer requirements.	
GVA on behalf of Northern Trust	Strategic Infrastructure: Transport	N/A	Primary: The IDP has included a cost of £14,495,240 for primary education which is based on doubling the expansion of West Winch Primary School, thereby adding 210 places, and providing a new 420 and 315 place primary school. In total the IDP includes provision for 945 places which is more than the net child yield (893 places) generated by a scheme of 3,500 units. Based on the basic need multiplier for primary education the total cost based on a net child yield of 893 places would be £10,398,092. This is £4,097,148 less than the primary education cost included within the IDP.	The NCC Education department provided the capacity report and developer requirements.	
GVA on behalf of Northern Trust	Strategic Infrastructure: Transport	N/A	High School: The IDP also calculates the high school and college contributions on the basis of the total number of pupils to be generated rather than the additional capacity required. Therefore, the costs within the IDP are significantly inflated. For example the education contribution for high school places (based on the basic need multiplier of £17,546) would be £4,877,788 which is £5,754,998 less than the high school contribution within the IDP.	The NCC Education department provided the capacity report and developer requirements.	
GVA on behalf of Northern Trust	Strategic Infrastructure: Transport	N/A	Sixth Form Provision: The education contribution for sixth form provision would be £228,348 rather than the cost of £1,141,740, which is included in the IDP.	The NCC Education department provided the capacity report and developer requirements.	
GVA on behalf of Northern Trust	Green Infrastructure	N/A	Formal Playing Fields and Maintenance: The formal recreation areas (playing fields) extend to 10ha and equate to circa 14 adult/senior football pitches. The average cost for a natural turf senior football pitch (based on Facility Costs from Sport England Q2 2016) is £85,000. This would result in a total cost of £1,190,000 and whilst it is accepted that other sports may be accommodated within the recreation area the total cost included within the IDP at £4,522,788 appears high. To put this into context: A natural turf rugby union pitch costs £100,000 and circa 11 pitches could be accommodated within the total area resulting in a total cost of £1,100,000. A natural turf cricket pitch (with 8 pitch square and 2 winter sport pitches) costs £265,000. For comparison purposes circa 5 natural cricket pitches could be accommodated with the total recreation area at a total cost of £1,325,000. Even if the costs include for changing rooms/club house/pavilion this would only add £240,000 for a 2 team changing room or £630,000 for a 4 team changing room. So on the assumption that the recreational area comprises 11 football pitches this would result in a need for three x 4 team changing rooms at a total cost of £1,890,000, which when added to the cost of the pitches (£1,100,000) would give a total cost of £2,990,000. It would be useful to understand what is included within the cost for formal recreation areas.	Maintenace costs are subject to yearly variation and the costs included have taken that into account	
GVA on behalf of Northern Trust	Community Facilities	N/A	Our only comments on the community facilities relates to the number of community centres and why three are included / proposed within the IDP. This seems excessive especially as a sports centre is also proposed which could be dual purpose and also serve as a community centre.	This can be considered	

r				
GVA on behalf of Northern Trust	Utilities		Detention Basins: The costs within Table 7 of the IDP are based on the Environment Agency report ref SC080039/R9. The max unit rate in this is £55/cubic metre for a dry detention basin but the data source for that rate is 2007. Assuming 2007 was the peak for construction costs we think 10% inflation from 2007-2017 would be reasonable. Therefore 60 per cubic metre would be defensible. We note that an optimism bias of 44% has also been applied in the IDP. The total cost of £6.96m is based on 78,317 cubic metres of storage. This works out a unit rate of £88 per cubic metre with inflation and optimism bias). We also note that Allan Baxter in some of their initial calculations for the development suggested that the volume of retention required is around 64,000 cubic metres. Therefore the IDP seems to be overestimating the amount of retention and costs of providing the site retention. If we adopt the Allan Baxter estimate of 64,000 cubic metre of retention required on site and use the MM Unit rate of £88/cubic metre the cost is £5.632m. This compares to the IDP costs of £6.96m giving a saving of £1.3m. However, whilst we accept that for the development to function a network of detention basins will be required as part of a comprehensive Sustainable Urban Drainage system these will be delivered as part of the overall masterpian proposals being brought forward by the respective landowners/developers. Therefore, we believe that this item of infrastructure costs.	Costs have been revised for 3Q2018
GVA on behalf of Northern Trust	Neighbourhood Plan Requirements		Curtins have reviewed the costs set out within Table 8 and consider that the IDP slightly over-estimates the costs of providing the measures requested in the Neighbourhood Plan. Curtins estimate the overall cost to be £495,000, a saving of just over £200,000 on the cost included in the IDP (£697,995).	Costs have been revised to reflect 3Q2018
GVA on behalf of Northern Trust	Other Required Infrastructure		The IDP (Table 9) identifies circa £67m of additional transport and access requirements. It is acknowledged within the IDP that these have been derived from the masterplan layouts drawn up by potential developers. Indeed some of the items within Table 9 are specifically linked to the scheme being proposed by Hopkins Homes. Whilst we accept that for the development to function a network or roads, streets and paths within the development, as per the respective masterplans, are required we strongly believe that these items of infrastructure should not be included within the IDP (and ultimately be included within the roof tax charge'), as they are not \$106 or Strategic Infrastructure Costs.	These costs will not be included within the Sectoion 106 agreements but are used to assess viability
GVA on behalf of Northern Trust	Statutory Utilities		At this stage we are not able to provide detailed comments as the advice we have received on utilities only relates to our initial phase 1 development of 500 units. We note that the costs for electricity are based on figures from UKPN pre development enquiry budget – could this be shared? The other costs appear to be based on 'allowances'. Could you provide further evidence which supports / justifies these allowances?	
Hopkins Homes	Table 3: Infrastructure Costs Highways	Minor improvements to Hardwick for A10 arm	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	A10 West Winch Bypass - Phase 1	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	A10 West Winch Bypass - Phase 2	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	A47 east of Hardwick dualling	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	Hardwick Interchange local widening within junction	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	A47 roundabout retainined but expanded	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	A47 Flyover dualled	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	A149 Dualled	No Comment	
Hopkins Homes	Table 3: Infrastructure Costs Highways	Traffic Calming through West Winch Village	Nominal summ but the access on A10 could contribute to this cost.	
Hopkins Homes	Table 3: Infrastructure Costs Highways	Total	doesn't include cost of land to deliver dualling and sustainable transport contribution. But overall costs more advanced than previously so can work with this	£10.7m for road is appropriate but should include cost of land for dualling which would be additional c£700K

Properties Table & Education Centrifuence N/A Provided the space/report Provided the space/report Provided the space/report Properties Table & Education Centrifuence West Work Provides (Store Store St				-	
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Hopkins Homes	Table 6: Community Facilities	Health Centre	Part of community facilities and included in those costs	
Hopkins Homes	Table 6: Community Facilities	3 Shops, expansion of graveyard, new nature reserve	Land take only	Maintenace would be required
Hopkins Homes	Table 6: Community Facilities	NLIS Library Contributions (£244 per home)	No Comment	internet would be required
Hopkins Homes	Table 6: Community Facilities	Total	Costs different to Table 6	Corrected
Hopkins Homes	Table 7: Utilities Requirements	Fire Hydrants - 1 per 50 homes or school/centre (£816 each)	74 hydrants	
Hopkins Homes	Table 7: Utilities Requirements	Detention Basins	Atkins estimated £1.05m for earthworks (£50 per cubic meeting) + outfall channels, attentuation basin structures and outfall pipes and connections on Hopkins site - would suggest overall cost c£3.5m. This would be included within development costs.	
Hopkins Homes	Table 7: Utilities Requirements	Detention Basins maintenance	Private maintenance company	Costs must be estimated for maintenance to demonstarte they are affordable
Hopkins Homes	Table 8: Neighbourhood Plan Additional Access & Transport Requirements	Redevelopment of A10 between Chapel Lane and Long Lane	Assumed to be included in traffic calming measures	To be confirmed
Hopkins Homes	Table 8: Neighbourhood Plan Additional Access & Transport Requirements	Provision for future dual use path connection to Bawsey Country Park		
Hopkins Homes	Table 8: Neighbourhood Plan Additional Access & Transport Requirements	Dual use path connection to the village of middleton (3m footpath for 1.7km)	Is a 3m wide footpath necessary?	3m is the standard minimum for multiuse.
Hopkins Homes	Table 8: Neighbourhood Plan Additional Access & Transport Requirements	safe cycle and pedestrian crossing at Rectory Lane (2 toucan crossings)	No Comment	
Hopkins Homes	Table 8: Neighbourhood Plan Additional Access & Transport Requirements	safe cycle and pedestrian crossing at Chequers Lane (2 toucan crossings)	No Comment	
Hopkins Homes	Table 9: Additional Access and Transport Requirements	Neighbourhood Streets - Site Masterplan (5151m of neighbourhood streets taken from 1565/01 SK306)	All included within development costs	
Hopkins Homes	Table 9: Additional Access and Transport Requirements	Village Centre Streets - Site Masterplan (795m of streets)	No Comment	
Hopkins Homes	Table 9: Additional Access and Transport Requirements	Lanes and Home Roads - Site Masterplan (10370m of lanes)	this is different to Table 9	Corrected
Hopkins Homes	Table 9: Additional Access and Transport Requirements	East of West Road - Hopkins (1172m)	This is different to Table 9	Corrected
Hopkins Homes	Table 9: Additional Access and Transport Requirements	Other Roads - Hopkins (3982m)	This is different to Table 9	Corrected
Hopkins Homes	Table 9: Additional Access and Transport Requirements	Cycle/shared use pathways associated with road network (10016m from SK306 and 6326m from HH masterplan)	No Comment	

Hopkins Homes	Table 9: Additional Access and Transport Requirements	2m footpath associated with road network (10016m from SK306 and 3982m from HH Masterplan)	Why is this more than cycle lanes	This may increase
Hopkins Homes	Table 9: Additional Access and Transport Requirements	cycle routes not associated with road network (3613m)	No Comment	
Hopkins Homes	Table 10: Required Utilities	Electricity - contestable	No Comment	
Hopkins Homes	Table 10: Required Utilities	Electricity - non contestable	Atkins calculate c£1.8m for Hopkins site based on £1,200 per plot and reinforcements of £500K only re-inforcements would be an abnormal cost.	
Hopkins Homes	Table 10: Required Utilities	Gas - strategic improvements	Atkins consider c£800 per unit plus reinforcements leading to c£1.3m for Hopkins Site - would suggest overall budget of c£4.5m for full site	
Hopkins Homes	Table 10: Required Utilities	Gas - protection works to H/P line	May not be necessary if development not proposed within hazardous area	Road are potentially crossing gas mains.
Hopkins Homes	Table 10: Required Utilities	Gas - infrastructure works	No Comment	
Hopkins Homes	Table 10: Required Utilities	Gas - on site trenching	No Comment	
Hopkins Homes	Table 10: Required Utilities	Water - Mains water distribution	Atkins consider £0.5m for off site connections and reinforcements + £354 per unit for connection. It would suggest c£3m for whole site so £3.5m realistic.	
Hopkins Homes	Table 10: Required Utilities	Water - foul sewer connections	Atkins suggest £0.7m which suggests c£2.5m so this cost appears reasonable.	



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