# South West Bicester Environmental Statement Countryside Properties (Bicester) Ltd

Technical Appendix 4 Amended landscape and visual effects

### **South West Bicester**

## Landscape Technical Appendix

for

Countryside Properties (Bicester) Ltd

Terence O'Rourke Ltd

October 2006

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### 1.0 INTRODUCTION

### 1.1 Appointment

Terence O'Rourke Ltd has been appointed by Countryside Properties to undertake a Landscape and Visual Assessment of proposals for a new mixed used development and perimeter road on land south west of Bicester, Oxfordshire.

### 1.2 Overview

The purpose of this Technical Appendix is to evaluate the significance of potential effects of the proposed development on the landscape character and visual resources. The site, which extends over 190 hectares, is currently a mixture of arable and pasture farmland. The site is shown on figure 10. For the purpose of the landscape and visual assessment, the site includes the land proposed to remain in agricultural use within the ownership of the applicant. The planning application boundary does not include this agricultural land, as illustrated on figure 21 – The EIA master plan.

Located centrally is Whitelands Farm comprising the main farmhouse and associated out buildings. Access to the farm is off Middleton Stoney Road via a farm track along which a further two residential properties are located.

Two public rights of way cross the site, the northernmost crossing the site east -west and linking the southern edge of Bicester with Bignell Park and Chesterton. The second footpath crosses the south-eastern corner of the site linking the A41 with the lane east of Chesterton. Pingle Brook crosses the north-eastern corner of the site close to Bicester. Hedgerows line the majority of the site perimeter, that, in combination with nearby woodland, hedgerows and copses tend to limit views in and out of the site to the local area. Within the site, vegetation cover is more fragmented comprising, for the most part, of poor quality and intermittent hedgerows with infrequent hedgerow trees. Three copses in the northern half of the site, together with Whitelands Farm, are the

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most prominent features in views. A fourth copse is located in the north east

corner of the site, but is generally in poor condition.

The settlement of Bicester lies immediately to the north of the site, and

Bignell Park is located to the west. The park is privately owned with no public

access. To the south lies the village of Chesterton, part of which is designated

as a conservation area. Gagle Brook crosses between the site and Chesterton in

a shallow valley.

No landscape planning designations covering the site.

The scoping report dated July 2005 was agreed by Oxfordshire County

Council and determined that landscape was a primary issue.

Throughout this text reference is made to other published documents, including

the relevant national and local policy and assessment documentation. Figure 1

below set out all of the background data sources referred to as part of this

assessment.

FIGURE 1 : Data Sources

Countryside Character Volume 7 – The Countryside Agency 1999

Cherwell Local Plan 2011- Revised Deposit Draft

Oxfordshire Wildlife and Landscape Study (OWLS)

Cherwell District Landscape Assessment November 1995

Buckinghamshire County Council Landscape Assessment

Cherwell Biodiversity Action Plan (BAP)

A Rural Strategy 2002-2006, Cherwell Community Planning Partnership

Recreation and Amenity Open Space Provision 2004, Cherwell District

Council.

Aylesbury Vale District Local Plan, Adopted 2004.

### 1.3 Assessment Methodology

The assessment of the site and the surrounding area has been undertaken with reference to the Countryside Agency's Landscape Character Assessment Guidance for England and Scotland (2002) and the Guidelines for Landscape and Visual Impact Assessment by the Landscape Institute and the Institute of Environmental Management and Assessment (2002). Assessment of night time effects has been undertaken in accordance with Lighting in the Countryside: Towards Good Practice by the Office of the Deputy Prime Minister.

The site and surrounding area has been visited to obtain familiarity with the landscape. Field studies and desk studies of photographs, map information and local plans have enabled the recording of landscape elements such as topography, drainage, land-use, development, vegetation and other features. This has allowed an evaluation of the landscape character and resources in and around the site, the recording of views and the establishment of representative viewpoints.

A combination of information from desktop topographical analysis and field studies has been used to determine the visual envelope of the existing site. This is defined as the extent of visibility of the site in the surrounding landscape. In order to determine the extent of the study area, the potential zone of visual influence (ZVI), defined as the extent of the visibility of the proposals in the surrounding landscape has also been calculated.

The study area is shown on figure 12. Within this study area, the visual analysis has determined that the main area of potential impact on landscape resources and visual amenity is within the local area, defined approximately by a 2km radius from the centre of the site. Beyond this area, potential effects on the landscape are limited, being confined primarily to distant views from higher land. For this reason, and where considered appropriate, the mapping of baseline information has not always covered the full study area, much of which will remain unaffected by the proposals.

The visual envelope was plotted initially by assessing 1:10000 Ordnance Survey data and by conducting a computerized view shed analysis. This included height data in 5km x 5km tiles at 10m point intervals. The digital terrain model included broad areas of existing settlements at a height of 8m and large blocks of woodland plotted at a height of 15m. This information was then taken out into the field where it was checked for accuracy and refined to take into account other factors determining visibility such as woodland blocks, hedgerows and buildings.

Fieldwork was confined to the site, public rights of way and the highway network, with the extent of visibility across private land interpolated based on findings adjacent from publicly accessible areas. The visual envelope defines the extent of visibility of the site in the surrounding landscape. This is limited by the combined effects of topography, development, vegetation and distance.

Views and visual receptors within the visual envelope have been identified. A number of 'representative viewpoints' have been selected that best demonstrate the site, and how it interacts with the landscape. The viewpoints chosen provide a representative selection of views from all relevant directions. These were agreed through consultation with Cherwell District Council's landscape officer.

The proposals are described later in this chapter. The effects on landform and on existing landscape features such as vegetation are included, as are other factors relevant to this assessment. Proposals for landscape measures such as new planting and earth shaping are similarly set out.

The zone of visual influence (ZVI) defines the area that would potentially be affected by views of the proposals. As for the visual envelope, an initial digital terrain model was produced based on the EIA building heights plan (figure 3.2 in the Environmental Statement). A number of individual points within the development and along the perimeter road were plotted to provide a suitable

coverage. Heights along the perimeter road were plotted at 4m to take account of traffic on the road. This digital information was then checked on site and refined as necessary.

Landscape and visual effects can be positive or negative and are therefore referred to as either beneficial or adverse. In some cases the nature of the effect may be dependent upon personal perspective and in those cases the effect can be recorded as subjective.

The effects, which are identified during the evolution of the proposals, are described as predicted potential effects. Adverse effects identified at this stage inform the mitigation measures.

Mitigation has been considered during all stages of design development with the purpose of avoiding or reducing predicted potential effects. Mitigation has not only been a secondary measure designed to address a specific adverse effect identified once a scheme is complete, but importantly has been an intrinsic part of the iterative design process. Mitigation has therefore been incorporated into a scheme from the outset and influenced design decisions from inception, for example, determining an alignment for the perimeter road that follows the grain of the land and respects sensitive views. This primary mitigation is included as part the proposals and has therefore been assessed as part of section 4.0. Secondary mitigation is outlined in section 5.0. Where adverse effects remain after secondary mitigation, these are referred to as residual effects.

In describing potential effects, account must also be taken of on-going changes to the area surrounding the site. This may include existing planning policy, allocations or planning permissions for new development. Equally, vegetation growth may progressively reduce the visibility of the development, or conversely views of the development may be opened up if, for example, vegetation is regularly coppiced or harvested as a crop.

The degree of landscape and visual effects can vary considerably between day and night, over time and with changing seasonal conditions. The description of effects therefore include consideration of effects at completion of the development, during construction, in winter and summer conditions and at night. The period of time taken for proposed planting to significantly reduce the effects is also considered.

### 1.3.2 Definition and Classification of Effects on Landscape Resource

Landscape effects arise from changes as a result of development in the physical elements of the landscape, which may affect its features, character and quality. The significance of a landscape effect is determined by consideration of the importance of the landscape and the magnitude of the change.

### **Landscape Importance**

The baseline section identifies factors that can be used to assess the relative value society attaches to the landscape, often in the form of designation. The guidance set out in figure 2 has been used in this assessment to arrive at an evaluation of landscape importance. This judgement may be moderated by reference to one or more of the additional criteria shown, such as landscape rarity or cultural and conservation interests. Evaluation of landscape importance is ultimately a matter of professional judgement and is defined in this report as high, medium, low or negligible.

### **Magnitude of Change**

The magnitude of change is a function of the degree to which the scale and/or nature and/or extent of the changes are at variance with the character and qualities of the receiving landscape. The guidance set out in figure 3 has been used for this assessment. Physical landscape characteristics such as topography, scale, vegetation and land use, which may affect the capacity of the landscape to accommodate change, should be taken into account.

Evaluation of magnitude of change is a matter of professional judgement and is defined in this report as large, medium, small or negligible.

### **Degree of Significance of Landscape Effects**

The degree of significance of effects on the landscape resource (adverse, beneficial or subjective) is judged from a combined evaluation of the landscape importance and the magnitude of change. The matrix in figure 6 has been used to guide this judgement. The definitions used are listed below. They can be applied to potential effects pre-mitigation, and to residual effects post-mitigation.

### Very substantial

The proposals become the dominant feature in, and fundamentally change the character of, a very important landscape, such that other elements become subordinate.

### Substantial

The proposals form an immediately apparent feature in a moderately or very important landscape, such that they affect and change its overall character.

### Moderate

The proposals form a recognisable new element within a moderately or very important landscape, but are of such a design or small scale that the change in character may not be readily noticed by a casual observer. Alternatively, the proposals cause an immediately apparent or fundamental change in character in a landscape of low importance.

### Slight

The proposals form a recognisable new element of different character within a landscape of low importance, but to such a small degree that they may not be readily noticed by a casual observer.

### None

No part of the proposals has any effect on the landscape, such that they are scarcely or not appreciated and the character remains substantially unchanged.

### 1.3.3 Definition and Classification of Significance of Effects on Visual Amenity

Visual effects result from the changes in character and quality of people's views arising from the development. The significance of the effect on visual amenity is determined by consideration of the importance of the receptor and the magnitude of the change.

### **Importance of Visual Receptor**

The importance of the visual receptors is determined by considering the following:

- the location and context of the viewpoint
- the number of people affected and the intervening distance
- the occupations/activity and consequent expectations of the receptor group and the degree to which that group is tolerant to change
- the consensual importance of the view including consideration of any consensus on the importance of the view. This can include cultural, historical and archaeological associations, tourist/leisure/recreational associations.
- Other factors such as specific, regular meteorological conditions at the site.

Views from community areas, houses or public footpaths might be considered more important than transient views from roads or views from workplaces, although transient views may include tourist routes which are important. Views of attractive unspoilt landscapes might be considered more important than views of a rapidly changing area of development. Views, which have cultural associations, might also be considered important. The definitions in

figure 4 have been used to guide the evaluation of importance in this assessment.

### Magnitude of Change

The magnitude of change in the view is determined partly by the degree of intrusion and obstruction of views in relation to the receptor and partly the degree to which the nature and scale of the proposals assimilates with or alters the character and quality of the existing view. The criteria in figure 5 have been used to determine the magnitude of change for this assessment.

### **Significance of Visual Effect**

The degree of significance of visual effect (adverse, beneficial or subjective) is judged from a combined evaluation of the visual importance and the magnitude of change. The matrix in figure 6 has been used to guide this judgement. The definitions used are listed below. They can be applied to potential effects pre-mitigation, and to residual effects post-mitigation.

### • Very substantial

Dominating changes to views from the most important receptors.

### Substantial

Major changes to views from important and very important receptors, or dominating changes to views from moderately important receptors.

### Moderate

Major or dominating changes to views from receptors of low importance, or small changes to views from important and very important receptors.

### Slight

Small changes to views from receptors of low importance.

### None

No discernible change to views, or changes at such a distance or of such a small scale that a negligible component of wider views is influenced. Alternatively, no views of the proposal available from important receptors.

NEGLIGIBLE

LOW **MEDIUM** South West Bicester 1806.01

Professional indgement can be used to vary the value of the	receptor, and the reason for doing so will be made clear in the landscape assessment. For example, factors such as local, regional or national rarity, cultural association, conservation	factors (history, topography geomorphology, geography, etc) may moderate the chosen category. See box below.		s, AGLV)	d appreciated by cal settlements	Non-designated landscape areas of particularly distinctive character	Locally designated or important open gaps	Landscape areas with relatively ordinary characteristics	A-landscape unknown or unappreciated by people	Featureless, spoiled or mundaine landscape with few features of value or interest	FIGURE TWO - LANDSCAPE IMPORTANCE
A landscape-known and cherished by very-many people from across the UK or internationally	National Park	Area of Outstanding Natural Beauty	A landscape known and cherished by many people from across the region or county	County landscape site (e.g. AGLV)	A landscape known and appreciated by many people from local settlements	Landscape importance can be determined by a judgement of the relative value that society attaches to a landscape, as shown on this diagram, moderated if appropriate by factors such as:	Consensus: the consensus of opinion expressed in different forms by different groups can help determine its value. This can include its recognised importance expressed by local, national or international	designations as well as value expressed by special interest groups or local communities or by professional bodies.  • Landscape rarity: a landscape may be valued due to its rarity (in either its local context or the wider context).	Landscape quality: a landscape may be valued because it is a good example of a typical landscape type. Factors influencing this include the condition of the landscape and the existence of features that detract from the integrity of the landscape.	Scenic quality: apart from the aesthetic qualities of the landscape, other less tangible qualities such as sense of place, tranquillity, remoteness should also betaken into account.	The conservation interest of the inclusion of a landscape in art, literature, film etc. can add value to a landscape.  Designations such as World Heritage Site, Scheduled Monument, listing, or Conservation Area may indicate that such moderation should be considered.  Conservation interest: the presence of features of ecological or geological interest can add value to the landscape as well as having value in their own right. Designations such as Ramsar site or Site of Special Scientific

NEGLIGIBLE			eatures/ duction of within the	Very miner loss of or very minor alteration to key elements/features/ characteristics of the baseline landscape and/ or introduction of elements that are not uncharacteristic in the surrounding landscape.
SMALL		he o, o and a seristic c be.	Minor foss of or minor alteration to key elements/ Teatures/ cfaracteristics of the baseline landscape and/ or introduction of elements that may not be uncharacteristic when set within the attributes of the receiving landscape.	Very leaff
MEDIUM	ress/ oction* When	Partial loss of key elements/ features/ characteristics of the baseline landscape or immediately apparent alteration to, or introduction of, elements that may be prominent but may not necessarily be considered to be substantially uncharacteristic when set within the attributes of the receiving landscape.	N Ceftr	the particular type the particular type or it, so warrants. s. pattern or scale or accommodate this category can be highlight how and ed.
LARGE	Total-loss of or major alteration to key elements/features/estaracteristics of the baseline landscape and/or introduction of elements considered to be totally uncharacteristic-when set within the attributes of the receiving landscape.	Partial baseli or intro not nee when		Professional judgement can be used to moderate the magnitude category if the sensitivity of the receptor to the particular type of change proposed, or its capacity to absorb it, so warrants.  For example, land use, enclosure openness, pattern or scale may enhance the capacity of the receptor to accommodate this particular type of development, and the category can be amended accordingly. The assessment will highlight how and why any moderation was used.
		onsiberq egnsde off f	to noitqirəsəb lsə 	iqųT 

# FIGURE THREE - MAGNITUDE OF LANDSCAPE CHANGE

NEGLIGIBLE	The number of people with views affected by the proposals and the intervening distance will help to determine where in the guidance rance the constitutive measure should lie In extreme cases of very	fange are sensitivity incasure snough not in extreme cases of very few or very many receptors the sensitivity measure can be moderated (i.e. reduced or increased).  Other factors such as specific local climatological conditions may be relevant in some circumstances.		age and proposeds	learning places the landscape	Some residential properties with restricted or indirect views of the proposals from the curtilage or windows	Views from <u>urban-roads</u> and footways, railways, railways, industrial areas and trading parks, where the focus of attention is unlikely to be on the landscape and where tolerance to change is likely to be high	Areas without public or private views
МОТ			٨	vs from the curt itely towards the estricted or indij	ocial meeting and	I properties with f the proposals f	i,V i <u>i</u>	
HIGH	Public views of or from areas of protected landscape such as National Park and AONB	Many residential properties with views from the curtilage and groundor first floor windows immediately towards the proposals	Views from rights of way, rural roads and recreational areas where the focus may be on the landscape and tolerance to change is likely to be low	Some residential-properties with views from-the curtilage and ground of first floor windows immediately towards the proposals, or many residential properties with restricted or indirect-views of the proposals from the curtilage-or windows	Views from offices, social meeting and learning places.  where the focus is unlikely to be on the landscape	Some residentia proposals o		
	Typical description of the visual receptor							

FIGURE FOUR - VISUAL IMPORTANCE

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NEGLIGIBLE						No real change to the perception of the view
SMALL				Major changes over a small proportion of the view	Minor changes over a large proportion of the view	
MEDIUM			Major changes over a large proportion of the view	V	·	
LARGE	<	Dominating changes over all or most of the view				
			predicted	tion of the change	Typical descrip	

FIGURE FIVE - MAGNITUDE OF VISUAL CHANGE

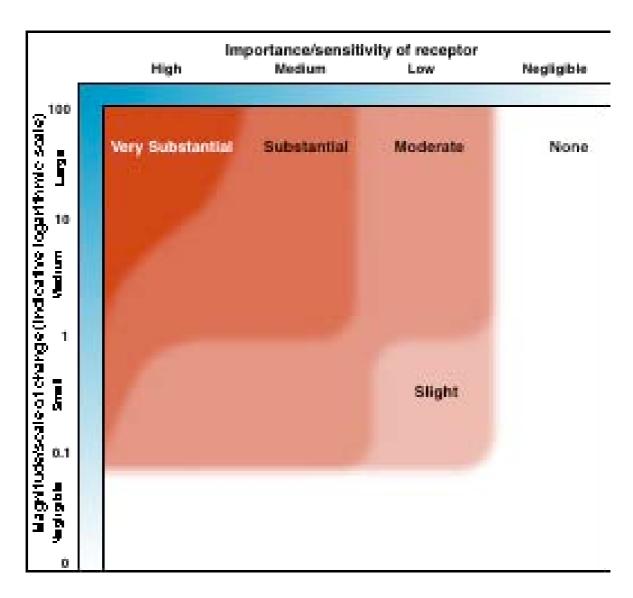


FIGURE SIX - Generic significance of environmental effects

### **Assessment Content**

The assessment is set out in five sections.

- Existing Landscape Conditions (Baseline) establishes the current landscape character and visual amenity of the site and its landscape setting, identifying the receptors of the proposals and classifying them in terms of sensitivity and importance.
- Description of the Proposals and Predicted Nature of Change –
  gives a brief description of the physical characteristics of the
  proposals and their appearance in the landscape, which informs the
  assessment of their effects.
- Predicted Potential Impacts on Landscape Character and Visual Resources – describes the potential effects on the landscape resources and visual amenity with reference to the receptors identified in the baseline studies.
- Proposed Mitigation Measures describes the landscape strategy and mitigation measures introduced to minimize identified adverse effects.
- Residual Landscape and Visual Impacts describes the effects predicted to remain following mitigation and establishment.

### 1.5 Illustrations

All photographs unless otherwise indicated were taken with a 50mm lens by employees of Terence O'Rourke Ltd. Viewpoints were taken from public areas, except those within the site itself and from Graven Hill, were access to private land was permitted by the MOD. Photographs have been included as they were processed without any modifications or enhancement using computer imagery.

All Ordnance Survey Plan maps are reproduced under licence held by Terence O'Rourke Ltd.

### 2.0 EXISTING LANDSCAPE CONDITIONS (BASELINE)

### 2.1 Introduction

The purpose of the baseline study is to record the existing landscape situation against which the effects of the proposals (both beneficial, adverse and subjective) can be assessed. It describes and assesses the site, its setting and its main features. It examines the existing landscape elements, character, quality, potential opportunities and sensitivity of the landscape, allowing identification of the principal landscape issues and an evaluation of the visual and character sensitivity of the site to the proposed development.

This site record is achieved by a process of description, classification, and evaluation, achieved by a combination of desktop study, field survey and analysis using a variety of techniques for study and presentation.

The study area is shown on figure 10. It has been determined by the extent of the visual envelope and predicted zone of visual influence of the proposals (ZVI).

### 2.2 Legislation and Policy Context

Planning constraints covering the site and study area are shown on figure 14. The site is not covered by any national, regional or locally important designation. It does not contain any listed buildings or any trees with protection orders. Within the local context of the site, the historic centres of Chesterton and Bicester are designated as conservation areas. These include a number of listed buildings. To the south east of the site, Alchester Roman town is listed as a Scheduled Ancient Monument and at Graven Hill the woodland has been designated as Ancient and Semi-Natural Woodland. Designations throughout the study area are described more fully below.

A large part of the study area is an Environmentally Sensitive Area. These areas, designated by Defra, are designed to encourage farmers to adopt

agricultural practices which will safeguard and enhance parts of the countryside considered to be of high landscape, wildlife or historic value.

In addition to Chesterton and Bicester, the airfield to the north of Bicester, and the settlements of Weston on the Green, Charlton on Otmoor and Islip are also designated as conservation areas. The historic parks and gardens at Kirtlington and Middleton Stoney are included in English Heritage's Register of Parks and Gardens and therefore are of national importance. The park at Kirtlington is also designated as a conservation area. As well as Alchester Roman town, there are several other Scheduled Ancient Monuments in the study area, all of them of national importance.

There are several areas of Ancient Woodland (semi-natural and replanted) and Sites of Special Scientific Interest (SSSI). The closest SSSI are at Stonepits Hills and adjacent to Holts Farm; both approximately 3.5 km from the site. There is an RSPB Nature Reserve near Oddington, and two Woodland Trust Sites at Launton and near Clue Hill Farm. The southern-eastern part of the study area is designated as an Area of Attractive Landscape (AAL) in Aylesbury Vale District Local Plan. The adjoining landscape within Cherwell district was previously designated as an Area of High Landscape Value by the local authority. This designation has now been superseded by more recent Landscape Character policies — see below. Nevertheless, this former designation and the AAL indicate the landscape in this part of the study area is regionally important.

### **Regional Policies**

### Oxfordshire Structure Plan, 2016

The Oxfordshire Structure Plan, Adopted in 2005, covers the majority of the study area, including the site.

Policy ENI relates to landscape character and states "Local planning authorities will ensure that proposals for development contribute to the protection, maintenance and, where possible, enhancement of Oxfordshire's landscape character."

Policy EN2 relates to biodiversity and states "the following sites of at least national importance will be protected from damaging development

- Special Areas of Conservation
- National Nature Reserves and Sites of Special Scientific Interest
- Sites which support specially protected species."

### 2.2.2 Local Policies

### Cherwell Local Plan 2011, Revised Deposit Draft.

The site and the majority of the study area are covered by this local plan (which is a non-statutory document).

The proposed urban extension at South West Bicester is allocated in the non-statutory local plan. Policy H13 covers the site. Item (xix) of the main policy requires the proposals to:

"incorporate structural planting and landscape proposals within the site and in the area to the south west of the perimeter road to mitigate the visual impact of the development, particularly from the south and west."

It is also stated in the supplementary text that land around Pingle Brook should be developed as public open space. Copse and, as far as possible, hedgerows should also be retained.

Policy EN34 relates to landscape character and states, "The council will seek to conserve and enhance the character of the landscape through the control of development". The policy goes on to state, "Proposals will not be permitted if they would:

i. cause undue visual intrusion into the open countryside;

- ii. cause undue harm to important natural landscape features and topography;
- iii. be inconsistent with local character;
- iv. harm the setting of settlements, buildings, structures or other landmark features;
- v. harm the historic value of the landscape."

Policy EN35 states, "The council will seek to retain woodland, trees, hedges, ponds, walls and any other features which are important to the character or appearance of the local landscape."

Policy EN 36 relates to landscape enhancement and states " *The council will seek opportunities to secure the enhancement of the character and appearance of the landscape, particularly in urban fringe locations*"

Policy EN37 mentions that the council will welcome opportunities for countryside management projects where all important trees, woodland and hedgerows are retained and enhanced by new planting.

Conservation areas and listed buildings are covered by policy EN 39 which states, " Development should preserve listed buildings, their features and settings, and preserve or enhance the character or appearance of designated Conservation Areas."

### Aylesbury Vale District Local Plan, Adopted 2004

The eastern edge of the study area is covered by this local plan. The principal policy designation of relevance is the Area of Attractive landscape (AAL). These broad areas have been identified in the Buckinghamshire Structure Plan, and the precise boundaries are defined in each of the local plans. These are important landscape areas that demand a high level of protection.

### 2.3 Landscape Setting and Site Features

### 2.3.1 Location

The extent of the site is shown on figure 10. The site is located between the village of Chesterton to the south and Bicester to the north. The Oxford Road (A41) connects Bicester with the M40 motorway and defines the eastern boundary of the site, except for the triangle of land located between the A41 and the old Roman road. Bignell Park and the A4095 border the site in the west. In the south-west corner, three privately owned fields lie between the site and the A4095. The northern boundary of the site is defined by Middleton Stoney Road (B4030) and by houses along the southern urban edge of Bicester. In the south, the boundary roughly follows the alignment of Gagle Brook; the shallow valley of the brook forming a physical barrier between the site and Chesterton. A petrol filling station and Little Chef are located on the eastern edge of the site, accessed from the A41 roundabout.

The M40 motorway crosses the study area to the west. Although audible from the site, it is not visible.

### 2.3.2 Settlement

The largest settlement within the study area is Bicester which has grown progressively through the last century from a small market town, see 1885 map (appendix 3). The centre of Bicester is about 0.5km from the closest part of the site. The transition between the urban edge of Bicester and the landscape is abrupt and, for the most part, characterized by two storey houses backing onto a perimeter road. The south-eastern edge of Bicester is surprisingly inconspicuous in views from the site, a combination of hedgerows along the B4030 and dense planting in rear gardens screening views of the urban edge. Bicester Village Retail Park (a factory outlet centre), and a large Tesco supermarket are located on the south-east edge of Bicester, separated from the main town by Pingle Recreation Grounds.

The village of Chesterton is the other main settlement in the vicinity of the site. The historic core is located in the south of the village and includes many fine buildings, several of which are listed. These include the St Mary's Church and Manor Farm House (both grade II\*). This part of Chesterton has been designated as a conservation area. Whilst the village has expanded to the west and east, development to the north (towards the site) has been restricted by Gagle Brook. The village lies just outside the Cotswolds Character Area (as defined in the Character Assessment for England by the Countryside Agency): however, the characteristic limestone walls and buildings of the Cotswolds, especially in the historic core, influence the vernacular.

To the south of Chesterton lie the settlements of Little Chesterton and Wendlebury.

The Ministry of Defence (MOD) owns several large defence complexes in the area including Graven Hill located approximately 2km to the east of the site. The MOD industrial type buildings are intrusive in views. The settlements of Ambrosden and Lower and Upper Arncott to the south east include large areas of barrack housing. Other settlements in the area include Launton, Marsh Gibbon and Little Marsh to the east, and Bucknell to the north west of Bicester.

### 2.3.3 Landscape Heritage/Listed Buildings

The landscape and visual assessment has been closely co-ordinated with the cultural heritage assessment; refer to Chapter 5 of the Environmental Statement. The main settlement of Bicester is of Saxon origin, probably 6<sup>th</sup> century in date. The 'cester' refers to the Anglo Saxon name for Roman defences and is common to several place names locally. The land surrounding Whitelands Farm was utilised for agricultural purposes, with certain field parcels leased to the inhabitants of the neighbouring village of Bignell. The distinctive ridge and furrow marks are clearly visible today in the three field parcels to the immediate east of the farm buildings. The Domesday survey (1086) refers to the town of Berencestra being spilt between two established

manor estates. The boundary with the neighbouring manor of Chesterton is clearly shown on a map from 1753 and corresponds to the field boundaries surviving today. The site of a windmill is also shown in the north-west corner just outside of this named area (The windmill was destroyed in 1886).

The 1885 1<sup>st</sup> edition County Series (refer to Appendix 3) shows the area in detail. The buildings of Whitelands Farm are shown surrounded by enclosed fields, with those in the south-eastern and south-western corners matching the areas of early enclosure shown on the 1753 and 1793 maps. There are two long straight tracks shown crossing the fields of Whitelands Farm from Bicester to Bignell and to Chesterton corresponding with the surviving footpaths across the site. To the west is the small area of parkland surrounding Bignell House, built in 1864. The village of Chesterton is well established by this date.

Conservation areas have been designated at the historic village of Chesterton and at the centre of Bicester old town. The conservation area at Chesterton covers the village along Alchester Road and the park at Chesterton Lodge up to the old boundary with the manor of Bicester. Several of the most important buildings within this conservation area are included on the statutory list of buildings of special architectural or historical interest, a number of them at a high grade – see Appendix 2.

### 2.3.4 Topography and Drainage

The topography of the study area is illustrated on Figure 13. The geology has a marked influence on the landform and drainage of the area, as well as landscape character which is discussed later in this section. The geology can be sub-divided into three distinct zones, the site straddling two of them.

Running in a south west to north east alignment, an outcrop of Great Oolite creates a gently undulating landscape that divides the higher land to the west (outside the study area) from the low-lying land to the south. This belt of limestone rises gently to the west from 80m AOD at the site to 110m AOD in

the north-west corner of the study area. Further west, the land continues to rises to approximately 130m AOD before falling steeply where the River Cherwell has formed a deep valley.

To the east of the limestone belt lies the Otmoor Basin that comprises Oxford Clays overlain by alluvial deposits associated with the rivers. The area is low lying, flat and ranges in height from 70-80m AOD. Within this flat landscape outcrops of higher land and isolated hills are features, including Graven Hill that rises steeply to 110m AOD.

In the south west of the study area the clays are overlaid with Greensands and Portland limestone that form the hills of the Midvale Ridge. The Midvale Ridge is the highest point in the study area rising to 190m AOD.

The drainage pattern can be seen on figure 13. A characteristic of the lowlying Otmoor basin is the network of rivers, streams and ditches that crisscross the land. The River Ray is the principal river in the area joining the River Cherwell just south of Islip.

The site falls gently from 82m AOD in the north west to 65m AOD in the south east. A 'shoulder of land' runs along the south-western edge of the site following the alignment of the Gagle Brook. The site falls more steeply from this shoulder of land down to the brook. A second more subtle valley follows a drainage ditch to the east of Whitelands Farm in the centre of the site.

In the north, Pingle Brook crosses the site. Watercourses are highlighted in the Cherwell Biodiversity Action Plan as important 'species rich' resources that should be protected. Recreational areas in the south of Bicester are located along the brook forming a strategic green corridor.

### **2.3.5** Land Use

The site is exclusively in agriculture use. The majority of the land is farmed as arable, although sheep are kept on some of the smaller fields to the east.

Whitelands Farm is located centrally and Whitelands Cottages (two properties) are situated to the north of the main farm along the same track. The triangle of land east of the A41 is currently unused, comprising scrub and grassland.

In the study area, the majority of the surrounding countryside is in agricultural use. In the vicinity of the site, other land uses include Bignell Park to the west which is a large private estate with golf course. To the east, a variety of urban fringe uses including a garden centre, sewage and caravan park. The MOD complex at Graven Hill lies beyond this area to the east.

### 2.3.6 Vegetation

The vegetation cover for the site and its local context is illustrated on figure 15. The principal areas of vegetation comprise woodland at Graven Hill and at Bignell Park. The parkland planting at Bignell Park includes a high percentage of evergreen trees that forms a solid screen along its eastern edge. Gagle Brook is also well treed, especially north of Chesterton conservation area. It can be seen from the plans that field boundaries are often hedged. The combined effect of the hedgerows is to filter and truncate views across the landscape, especially in the flat areas; this is discussed further under landscape character and visibility.

Within the site, vegetation cover is more fragmented, comprising, for the most part, of poor quality and intermittent hedgerows with infrequent hedgerow trees. Three copses in the northern half of the site are prominent in views, Foxey Leys Copse being the largest and most visible of the three. A fourth small copse in the north east corner of the site is of poor condition with many dead elm and elder.

As part of the baseline assessment, Colin Bashford Associates undertook a full arboricultural survey of the site and the perimeter, in accordance with BS5837: 2005. *This arboricultural survey has been provided as part of the supporting documentation*.

### 2.3.7 Public Rights of Way and Access

The public rights of way network for the site and the local context is illustrated on figure 16. The public rights of way network for the whole study area has not been shown as very few footpaths beyond the local context are predicted to be affected by the proposal.

The alignment of the two footpaths crossing the site is illustrated on figure 16. The south-eastern footpath continues further north to link up with Pingle Recreation Ground, although walkers are required to cross the busy A41 dual carriageway at grade. To the south of the site there is a reasonably comprehensive network of footpaths, which, in combination with the country lanes, link the settlements in this area with one another. To the north there are very few public rights of way, a bridleway north of Bignell Park being the only designated route. A number of footpaths radiate from the centre of Bicester towards the surrounding countryside, although several terminate where the built development ends.

Whitelands Farm is accessed from Middleton Stoney Road.

### 2.4 Landscape Character

The *landscape* character areas and types described below are illustrated on figures 17 and 18.

As part of the desktop assessment, previous classifications and evaluations of the landscape character for the study area have been considered.

### 2.4.1 National

The site straddles two national character areas as defined in the Countryside Agency's "Countryside Character – The character of England's natural and made-made landscape". The majority of the site lies within Character Area 108 "Upper Thames Clay Vale". This area is characterized by open, gently

undulating lowlands farmland of Upper Jurassic clays containing a variety of contrasting landscapes including enclosed pasture, wet valley bottoms and more settled open arable land. In Oxfordshire the landscape is dominated by the 18<sup>th</sup> century enclosure of small woodlands/copse and hedgerows.

The western edge of the site falls within Character Area 107 "Cotswolds". This area is characterized by the underlying limestone geology, used extensively for the buildings and walls resulting in the well known attractive villages with unity of design and materials. The topography of the Cotswolds is complex, but in the study area is best characterised as a flat open landscape with extensive arable farmland.

The south-eastern edge of the study area falls within Area 109 "Midvale Ridge". The area is characterized by irregular outcrops of limestone which rise from the clay vales below. In the study area vegetation cover is limited, the large geometric fields divided by regular patterns of hedgerows with isolated trees and mostly small copses.

A fuller description of each of the three character areas described above is provided in Appendix 4.

### 2.4.2 Regional

In November 1995 Cobham Landscape Consultants produced a landscape assessment for the Cherwell District. This subdivided the landscape of the district into a series of landscape character areas and types. In 2004 Oxfordshire County Council, English Nature, the Countryside Agency and the Northmoor Trust jointly produced the Oxfordshire Wildlife and Landscape Study, otherwise known as OWLS. This report subdivided the district into a series of landscape types.

Both studies have been referred to as part of this assessment. However, the more recent OWLS study has been used for the baseline assessment. Figure 17

shows the character types from the OWLS study within the study area. Of these, the baseline assessment has determined four that are potentially either directly or indirectly affected by the proposals. In addition to these four character types, the Midvale Ridge, which falls outside the OWLS study has also been also determined as potentially being affected. The section of the Midvale Ridge within the study area has been assessed as part of Buckinghamshire County Councils Landscape Assessment. This study has been referred to and relevant extracts are provided in Appendix 5.

The site's character, together with the five character areas/types referred to above are now described. It should be noted that the transition between one character area/type and another is rarely defined, and therefore the edges should be read as illustrative.

### 2.4.2 Character of the Site

The site straddles two wider character types; the Wooded Estatelands to the west and Clay Vale to the east. The change in character is due to the underlying geology and soils. The large open arable fields to the west coincide with the limestone, whereas the smaller pasture grazing to the south east are clay soils. The change in character, however, is not pronounced. Although the site's character is extensively rural, the southern edge of Bicester and the main roads have an urbanizing effect especially in the north. This is less true in the south, particularly where the land slopes towards Gagle Brook. The southfacing slope of Gagle Brook, and the field to east of Whitelands Farm are more intimate in character.

The site has been assessed as being of **Medium Importance**.

### 2.4.3 Landscape Type 1 - Wooded Estatelands

This character type includes the western half of the site. The boundary is defined by the change in geology from Jurassic clays to the south east to the

Great Oolite limestone of this area. This character type closely coincides with the Cotswolds Character Area. Its primary characteristics are:

- Rolling topography with localized steep slopes.
- Large blocks of ancient woodland and mixed plantations of variable sizes.
- Large parklands and mansion houses.
- A regularly shaped field pattern dominated by arable fields
- Small villages with strong vernacular character.

The area is primarily rural in character, farmed as arable with medium to large fields with limited hedgerows and some small copses. In the vicinity of the site the land is relatively flat. The hedgerow framework has been eroded progressively by arable farming methods and this can be seen in the western half of the site which is more open due to limited vegetation cover. Historic parks are common throughout this landscape, many, such as those at Middleton Stoney and Kirtlington, are included on English Heritage's Register of Historic Parks and Gardens. Bignell Park is not designated.

The character type is not covered by any national or county level landscape designations. Chesterton conservation area lies on the south-eastern edge of this area. The M40 motorway passes through this landscape, degrading its character.

This character type has been assessed as being of **Medium Importance**.

#### 2.4.4 Character Type 3 - Wooded Hills

This character type includes the prominent hills at Graven and Arncott. Its primary characteristics are:

- Steep-sided isolated hills in otherwise low-lying areas
- Large blocks of ancient woodland
- Mixed land uses

The large MOD depots that are intrusive in views significantly influence the character of Graven and Arncott hills. The quality of the landscape is degraded by the large industrial-type buildings, hardstanding and boundary fences. Public access to both hills is restricted. The hills are prominent landmark features in views from the surrounding landscape. The woodland at both hills is listed as Ancient and Semi-Natural Woodland.

This character type has been assessed as being of **Medium Importance**.

# 2.4.5 Character Type 4 - Clay Vale

This character type includes the eastern half of the site.

Its primary characteristics are:

- A flat low-lying landscape
- Mix of uses dominated by pasture, with small to medium-sized fields
- Dense tree lined streams and ditches dominated by pollarded willows and poplars
- Small nucleated villages

The heavy clays have made settlement difficult and the landscape remains sparsely populated and rural in character. There are no national or county landscape designations covering this landscape. The predominance of pasture farming has meant that the hedgerow pattern has remained largely intact; refer to the aerial photograph, figure 11. Views tend to be limited by the hedgerow structure.

This character type has been assessed as being of **Medium Importance**.

# 2.4.6 Character Type 5 – Alluvial Lowlands

This is flat landscape of lowland river valleys, rural in character. The low-lying land coupled with the strong hedgerow pattern, limits views in and out of this area. Tree cover is a notable feature but woodland is limited. Open ditches, brooks and streams often border fields.

Its primary characteristics are:

- Broad alluvial plains
- Mixed farming pattern with regular fields with both arable and pasture
- Densely scattered hedgerow trees of ash and willow
- Sparsely settled

In the study area, views of the MOD depot at Graven Hill and the M40 motorway degrade the quality of the area. There are a number of Scheduled Ancient Monuments, including Alchester Roman Town to the south of the site. There are no national landscape designations covering this landscape. A large part of this area is designated as an Environmentally Sensitive Area, recognizing high landscape, wildlife or historic value.

This character type has been assessed as being of **Medium/ High Importance.** 

# 2.4.7 Character Area 10 - Midvale Ridge

Lying approximately 8km to the south west of the site, the elevated Midvale Ridge has distant panoramic views out across the low-lying areas towards the site. The landscape is largely unspoiled and rural in character, the most discordant element being the main roads. Its primary characteristics are:

- Steep-sided ridges with very little tree cover
- Panoramic views out across low-lying areas
- Fields tend to be grassland for pasture with low and fragmented hedges
- Designed parkland in low-lying areas

This area is designated as both an Area of High Landscape Value and Area of Attractive Landscape (AAL). Both designations reflect the quality of this landscape that has an extensive network of public rights of way.

This character type has been assessed as being of Medium/High Importance.

The site and its immediate surroundings have been considered in more detail as part of this assessment. The following additional character type has been determined as part of the assessment. Refer to figure 18.

# **Character Type 11 – Urban Fringe**

This character area is situated to the east of the site. Originally low-lying agricultural land, over time somewhat random development has changed the character of this area. Bicester Village Retail Park, Tesco supermarket, a sewage works and garden centre are all located in this area. This development and the MOD depot at Graven Hill are perceived as one in several views. Additionally, traffic on the A41 is both audible and visually intrusive. The character of this area is discordant and generally unattractive.

This character type has been assessed as being of Low Importance.

Two character sub areas within the Woodland Estatelands character type have also been determined.

# Character sub area 1a - Bignell Park

This area has a distinct character of its own. Dense parkland planting, with a high percentage of evergreen trees, limits views in and out of the area. The western edge of this area is more open, its boundary being less well defined and influenced by the nearby M40. The manor estate is mentioned in the Domesday survey (1086). The park is not included in English Heritage's Register of Historic Parks and Gardens. Bignell Park Farm, located east of the manor house, is now as small business centre.

This character type has been assessed as being of **Medium Importance**.

#### Character sub area 1b - Bignell Golf Course/Leisure

Located to the south of the parkland, the recreational land uses give this area a separate and distinct character from the surrounding agricultural land. The areas character is derived principally from the golf course, but also includes recreational pitches. The site is not visible from this area. It has been determined that the proposed development will also not be visible from here, therefore no assessment has been undertaken for this character area.

# 2.4.8 Landscape Resources

#### Natural features

The following features within the site are considered to be important in respect to landscape character and landscape heritage.

- Hedgerows: although individually not significant, combined they provide an important landscape structure both in character terms and for visual reasons.
- The three copses(the fourth copse in the north east of the site is assessed as having limited landscape value).
- Pingle Brook and associated tree and shrub vegetation.
- Gagle Brook and its rural character.
- The two existing footpaths, both of which are shown on the 1885
   Ordnance Survey map.
- Whitelands Farm and its setting.
- The setting of Chesterton conservation area and the relationship between the site and this area.
- The setting of Bignell Park.
- The rural approaches to Chesterton from the north and east.
- The open farmland in views
- Subtle variations in topography, in particular the more intimate valley landscapes along watercourses.

#### 2.5 Visual Envelope (Visibility of the Site)

The visual envelope of the existing site is illustrated on figure 12. Despite the site's size, the majority of views of the site from the surrounding landscape are within this local area (defined as 2km from the centre of the site). Bicester to

the north, Bignell Park to the west and Graven Hill to the east all form significant visual barriers between the site and views from the wider landscape. Additionally, the relatively flat landscape combined with the layering effect of hedgerows, copses and woodland, also limit the extent of the visual envelope. From some areas of higher land, potential views of the site have been determined including Graven Hill to the east and more distant locations near Arncott and Muswell.

# 2.6 Representative Viewpoints

The extent and nature of existing views of the site have been assessed and typical 'representative viewpoints' established. Figures 19 and 20 show the locations of the representative views. Each viewpoint is illustrated on Photographs 1-19.

#### 2.6.1 Local

Local views are classified as those at a distance of up to 2km from the centre of the site. Of these, nearly all are close to the site boundary. These include views from within the site.

#### Views from the North

Views from this area are restricted to the southern edge of Bicester, the houses along this edge forming a visual barrier to those further north. Houses on the southern edge will have views across the site, especially from upper floor windows. However, planting along Middleton Stoney Road and in the rear gardens of the houses restrict and filters these views, especially in the summer months. The following are typical viewpoints from public areas or from within the site.

#### Viewpoint 2

This view is from the A4095 looking south towards the site, at a ground level of approximately 82m AOD. In winter, filtered views of the north-western edge of the site are available. The site becomes less visible in summer when

the hedgerow and trees along Middleton Stoney are in leaf. Properties on the edge of Bicester are visible from the road.

# Viewpoint 10

This view is from within the north-east corner of the site, at a ground level of approximately 70m AOD. Pingle Brook is distinguishable in the view by the change in grassland. Whilst no public assess is currently available from this viewpoint, it is from a part of the site that will become informal public open space in the new development. Views from the nearby public right of way also overlook this area; this is discussed later in this section. Foxey Leys Copse is clearly visible, as is the petrol filling station and Little Chef, both of which are intrusive in the view. The electricity pylons also degrade the quality of the view.

# Viewpoints 16

This view is from the housing estate at the corner of Chalvey Road with Ray Road, looking south west towards the site, at a ground level of approximately 71m AOD. This location is from one of two junctions onto Middleton Stoney Road from the housing along this edge. The site is clearly visible through the gap in the housing, *although* the *old and poorly maintained public realm of the* housing estate in the foreground *degrades the view significantly*.

#### Viewpoint 17

This view is from the farm track leading to Whitelands Farm. The hedge along the farm track limits the extent of views to the east. Graven Hill and the A41 service station are just visible above the hedge, but in summer the view east is completely screened. To the south and west a panoramic view across the open and bland arable field is available towards Bignell Park and Whitelands Farm.

#### Identification of visual receptors from local northern views

 Motorists, pedestrians and cyclists using Middleton Stoney Road, the A4095 and the junctions onto this road from the southern edge of Bicester.

- Residents of houses along the southern edge of Bicester
- People using the footpath in the north-east corner of the site.
- Visitors to Bicester and / or Bicester Factory Outlet

#### Views from the East

Views from the east are currently significantly restricted by vegetation along the A41. The majority of the land east of the A41 is privately owned and therefore *the* visibility of the site could not be checked at site. It was possible, however, to view the site from the garden centre. From here the site is barely visible in winter; the top of Foxey Leys Copse is just *perceptible* in views from the site entrance. The triangle of land between the A41 and the old Roman road is densely vegetated which further reduces the visibility of the site west of the A41 from *land to* the east. Views of the north-eastern corner of the site are available from the sports ground (private), Tesco supermarket and from upper floor windows of a limited number of properties on the south-eastern edge of Bicester. Boundary fences and walls limit views of the site from Pingle Recreation Ground and public rights of way in the vicinity.

# Viewpoint 12

This view is from the pavement on King's End, at a ground level of approximately 71m AOD. The private sport club and grounds are located to the east and properties on the corner of Middleton Stoney Road are just visible in the view. The north-eastern corner of the site is visible, although the view is dominated by traffic on the roads. The poor quality of the perimeter vegetation *in this location* is evident.

#### Viewpoint 7

This view is from the edge of the service station, at a ground level of approximately 67m AOD. The existing view towards the site is of extensively open arable land, although the quality of the view is degraded and urbanized significantly by the adjacent service station. Foxey Leys Copse is clearly visible in the middle distance.

#### Viewpoint 1

This view is from the flyover on the A41 looking towards the site, at a level of approximately 73m AOD. The flyover provides an elevated panoramic view in which much of the site is visible. Whitelands Farm and Foxey Leys Copse are both clearly visible, as are the fragmented and poor quality hedgerows within the site that contrast with the denser perimeter hedgerows along the A41. The edge of Bicester and service station are visible in the distance. The A41 and open farmland are the dominant features of this view.

Identification of visual receptors from local eastern views

- Motorists using the A41
- Residents of houses along the south-eastern edge of Bicester
- · Spectators and players at the sports ground
- Pedestrians, cyclists and motorists on King's End Road
- Visitors/workers going to Bicester Village Factory Outlet, the service station and Little Chef.

#### Views from the South

Views from the south are restricted by landform and vegetation, and the site tends to be viewed through gaps in vegetation.

In Chesterton, views of the site from locations accessible to the public are very limited. Where views are available from public areas, they tend to be through gaps in buildings and are filtered by trees, see viewpoint 8. The majority of views of the site from Chesterton are from private properties along the northern edge of the village. In the south east (the conservation area) the site is heavily screen by the woodland planting along Gagle Brook. This planting completely screens views from Chesterton Lodge (winter and summer). Further west the planting becomes less dense and there are views from a limited number of properties (some of which are listed) through gaps in the planting. The landform limits views across the site where properties are located in the valley of Gagle Brook.

In the north west of Chesterton a number of properties along the northern edge overlook the site. The main views are from upper floor windows. Views from this area include the Primary school; its playground located at the rear of the school is clearly visible from within the site looking back. Views from the lane to the east of Chesterton are restricted by hedgerows and by the landform. To the south of this lane, Lodge Farm is located on higher ground and will have filtered views across the eastern half of the site. Views of the site from the footpaths further south of Lodge Farm are screened by vegetation and landform.

#### Viewpoints 6 and 14

Both of these viewpoints are from the southern edge of the site looking north. Viewpoint 14 is at a ground level of approximately 67m AOD, whilst viewpoint 6 is slightly higher at approximately 70m AOD. Both views are taken next to farm gates where gaps in the hedgerow afford views across the site. For people travelling on the lane by car, these views would appear as momentary glimpses. In viewpoint 14, the public right of way that follows the broken hedge is visible. Viewpoint 6 clearly illustrates the shoulder of land that follows the valley for Gagle Brook. From this location the base of the trees visible on the skyline (and much of the site) is screened by the landform.

# Viewpoint 15

This panoramic view is from within the site and is therefore not available to the public. The view is from a ground level of approximately 73m AOD. Whitelands Farm and Graven Hill are noticeable landmarks in this extensively rural scene. The woodland planting along the edge of Chesterton Lodge is clearly visible. As this land is proposed to remain in agricultural use, no public access will be available in the future and therefore no assessment has been made for this view. It is, however, referred to as part of the assessment for Chesterton.

#### Viewpoint 8

This is from Alchester Road looking north towards the site, at a ground level of approximately 77m AOD. The primary school is in the foreground; the site is only just visible in winter time through a small gap.

Identification of visual receptors from local southern views

- Motorists, walkers and cyclists using the lane east of Chesterton
- Residents of houses along the northern edge of Chesterton
- Local people and visitors using Alchester Road.

#### Views from the West

Views of the site from the west are restricted, only being available from the A4095 to the north of Chesterton and from the eastern edge of Bignell Park. Views of the site may also be available from upper floor windows of Bignell Park Hotel.

#### Viewpoint 19

This view is from the public right of way close to the A4095, at a ground level of approximately 75m AOD. The view is of private fields; the site, which lies further west, is barely perceptible in winter and totally screened in summer by the dense hedgerows.

#### Viewpoint 18

This view is from the A4095 at a ground level of 82m AOD. The site is to the west; totally screened in summer, but visible through the vegetation in winter. For motorists, the dense vegetation channels the view along the lane.

# Viewpoint 13

This view is from within the site and therefore is not currently available to the public. It has been included as it provides a good example of the open arable plateau landscape in the western half of the site, and because it help to inform the assessment for viewpoint 18 which is from a public location. Vegetation cover is limited. Both Whitelands Farm and Graven Hill are visible; the

church in Bicester is just visible on the skyline in the winter view. As this land is proposed to remain in agricultural use no public access will be available in the future and therefore no assessment has been made for this view inside the site.

Identification of visual receptors from local west views

- Private residents of Bignell House.
- The owners and public at Bignell Park Hotel.
- Motorists using the lane (A4095) to the north of Chesterton.

There are two public rights of way that cross the site. From both footpaths users will experience a wide range of views of the site. Viewpoint 5 has been included as a representative view from the public rights of way.

# Viewpoint 5

This view is from the public right of way (footpath) that crosses the site north east to south west. The view is west of Whiteland Farm, at a ground level of approximately 77m AOD. The panoramic view includes Whitelands Farm in the foreground and Chesterton to the south. The extent of vegetation screening Chesterton is illustrated well in the view; the majority of the village is completely hidden in summer months.

# 2.6.2 Intermediate and Distant

Beyond the local context (2km from the centre of the site), there are very few areas where the site is visible. The following representative viewpoints have been included from these distances.

#### Intermediate

#### Viewpoint 11

This view is from Graven Hill, at a ground level of approximately 89m AOD. The view is not currently available to the public as it lies within the boundary of the MOD depot, but has been included because it is considered to be one of the few locations beyond the local area where clear views of the site would be

visible. The site is visible in the middle distance; it actually constitutes a relatively small part of the view that is dominated by the MOD buildings in the foreground.

# Viewpoint 9

The view is from the over bridge on the M40 looking south east towards the site, at a ground level of approximately 108m AOD. Graven Hill and the large industrial type buildings at its base are just visible, as is the northern edge of Bignell Park. The site is not visible from this distance (the viewpoint being outside the visual envelope) but potential views of the development have been determined as part of the ZVI modelling.

#### Distant

#### Viewpoint 3

This view is from the public right of way (bridleway) on Muswell Hill, at a ground level of approximately 175m AOD. From this distance, the site constitutes only a very small part of the fine panoramic view across the clay vales. The northern half of the site is screened by Graven Hill.

#### Viewpoint 4

From Muswell Hill, a ridge of higher land extents to the south east. Viewpoint 4 is from this ridge, along a public right of way south of Gardener's Barn. The ground level is approximately 96m AOD. The drop in height from Muswell Hill means that at this distance the site is not visible. No view of the site, or the proposals, is available from this location and therefore no assessment has been undertaken.

Identification of visual receptors from intermediate and distant views

- Motorists, walkers or cyclist using the overbridge on the M40
- Ramblers using the footpaths and house riders using the bridleway on Muswell Hill.
- MOD workers at Graven Hill.

# 2.7 Night-time Views

An assessment of the site at night-time was undertaken. Currently the site is almost completely devoid of lighting, Whitelands Farm being the main source of light. However, in views from the south, the urban edge of Bicester is clearly visible, the petrol filling station and Little Chef being particularly visible and intrusive. The absence of lighting columns along the A41 significantly reduces the level of light pollution along the eastern edge of the site. In views from the southern edge of Bicester, the site is again seen as a large dark area, although all of the existing views from this area are adversely affected by lighting associated with built development.

#### 2.8 Future Baseline

In the absence of the proposed development, the site will remain in agricultural use. Minimal change to the landscape character and views is predicted.

# 3.0 DESCRIPTION OF THE PROPOSALS AND PREDICTED NATURE OF CHANGE

# 3.1 Proposals

The EIA masterplan is shown on figure 21. This master plan is fixed and has been used for the landscape and visual assessment of potential effects.

The proposals comprise:

- up to 1,585 residential dwellings, 30% of which will be affordable
- 2 ha of employment land to be located in the north-east of the site and with a further 1000m<sup>2</sup> within the local centre
- outdoor playing space including formal outdoor sports, clubhouse and changing facilities, children's play areas and informal open space
- a primary school and land for a second primary school
- land for a secondary school
- a local centre including a community centre, and land reserved for a children's day nursery, retail area, a family- friendly pub and office space
- 1ha reserved for a hotel
- a safeguarded site in the for a health village, which will include a nursing home and could include a community hospital, GP surgery and complementary uses, which will revert to employment uses if not taken up
- a perimeter road and junction improvements
- access to a potential site for park and ride (potential site outside application boundary).

The development will generally be two and three stores, although for the purpose of this assessment the worst case has been assessed as illustrated on figure 3.2 (Buildings Heights) in the Environmental Statement.

A variety of house types and tenures across the site is proposed, which will help to ensure that a mixed community is delivered. These will include apartments as well as two, three, four and five bed-houses. Flexible building types will be provided where appropriate to allow the neighbourhood to change and adapt to social and economic pressures over time.

The layout of the new development considers the character of Chesterton and Bicester and the variety and detail of built form in both places.

Provision will be made for two primary schools on-site to serve the local community.

Land for a secondary school will be provided on-site, incorporating an area of up 3.14 ha of buildings and hardstanding. The school will share sports pitches and facilities on the formal open space. The secondary school will be accessible by bus and could cater for 850 pupils.

# 3.1.1 Open space and amenity provision

The development will include formal sports provision (including existing and proposed planting). Ten hectares is to make up the existing deficiency in the town and meet the needs for the planned growth of Bicester. Six hectares provides for the development proposal.

A mix of facilities will be provided that could include senior football pitches, senior rugby pitches, plus pitches for junior use, cricket pitch, athletics facility, a bowls facility and tennis provision. Details of type and layout will to be confirmed by Cherwell District Council after public consultation and at a future detailed stage.

A sports pavilion, changing facilities and parking area will be provided on-site adjacent to the playing fields. This will support the six hectares of formal sports provision required for the development proposal.

There will also be a number of areas of informal open space provided throughout the application site, including land around Pingle Brook, a greenway through the site and the existing woodland belts, as shown on the master plan.

The overall vehicular access strategy for the development is shown on figure 21.

The main vehicular access from the A41 Oxford Road to the proposed development will be provided by a new four-arm roundabout. This will be coupled with the closure of the slip roads for the existing grade separated junction, which currently provides access to Chesterton. Access to Chesterton will be provided from the new roundabout, the eastern arm of which will link to the existing unclassified road to the east of the A41 Oxford Road. The new arrangements for access to Chesterton from the A41 Oxford Road, coupled with the new perimeter road, are likely to reduce existing rat-running movements through Chesterton.

The provision of the eastern link from the new roundabout to the unclassified road will also facilitate access to land to the east of the A41 Oxford Road. This could provide the opportunity for this land to be developed for a future park and ride facility to the south of Bicester.

It is proposed to reduce the speed limit of the A41 Oxford Road to 40 mph to the north of the proposed access roundabout. This measure will improve safety for drivers along this corridor and, in particular, help reduce the occurrence of shunt type accidents at the A41 Esso Roundabout.

Secondary accesses will be provided via a new signalised junction off the A41 Oxford Road, a new priority junction and a new roundabout on Middleton Stoney Road and a further roundabout onto the proposed perimeter road. These access roads and junctions will be designed to the relevant county and national standards and will be appropriate for the forecast flows.

The access junction toward the eastern end of Middleton Stoney Road, although connecting with the main part of the development, is intended

primarily to serve the 100 dwellings located north of Pingle Brook. Traffic from the main part of the site will be discouraged as the link between the main development and these 100 dwellings will be designed to be of the lower end of the hierarchy, for instance narrow roads with footways, shared surfaces or home zones with design speeds of 10 and 20 mph. The link will not directly connect to either a spine street, the routes designed to accommodate the main vehicle movements through and within the development, or a secondary level street, which will connect to the development areas. These measures will ensure that this is not an attractive alternative in terms of journey time for the majority of residents.

The alignment of the perimeter road has been considered on the basis of a design speed of 50mph with the objectives of:

- connecting to the proposed A41 roundabout which has been carefully located at a safe distance from the Chestern/Wendlebury junction and proposed and existing junctions further north on the A41providing adequate land to the west of the A41 can be utilised as a future park and ride facility
- closely following the topography of the site to help assimilate with the landform
- taking account of sensitive views in and around Chesterton, Whitelands
   Farm and the new development
- aligning with existing hedgerows, copses and trees to fit within the landscape
- minimising potential noise and light pollution
- enabling a conventional T-junction to be constructed between the realigned A4095 and the perimeter road
- connecting to Howes Lane with a straight alignment to enable a conventional roundabout junction with Middleton Stoney Road to be constructed.

At the north-western end, the proposed implementation of the perimeter road requires the realignment of the existing A4095 towards Chesterton and a roundabout at the Middleton Stoney Road / Howes Lane junction. The existing road north of the new junction Middleton Stoney Road will be a bus only link, with pedestrian and cycleway access. Cars travelling in both directions and buses travelling south will use the north-western section of the perimeter road.

The existing lane to Whitelands Farm will be closed off to traffic and provide pedestrian and cycle access only. A new access to Whitelands Farm will be provided via the perimeter road.

As part of the master planning, Colin Bashford Associates (the arboricultural consultants) were involved in the design process. Vegetation loss was discussed and agreed at site, and their comments informed the layouts.

# 3.1.2 Planting

Extensive landscape planting is proposed as part of the new development and the perimeter road, to help assimilate the proposals with the existing landscape. This will include the planting of new hedgerows, copses and woodland designed to build upon the existing landscape framework. Species will be predominately native, mostly deciduous and of local provenance. The purpose of the landscape planting is not necessarily to screen the development, but rather to provide a landscape framework in which the development is viewed.

#### **3.2** Construction Phase

A full phasing programme is provided in chapter 3 of the Environmental Statement. It has been assumed that the construction of the development will commence in 2007 and extend until 2014. Construction will begin for the initial residential area off Middleton Stoney Road and off the new access off the A41 and will continue in phases as shown in the phasing plan (figure 3.4) accompanying the application.

The standard working hours for all construction activities will be from 0730 to 1730 Mondays to Fridays, and 0730 to 1300 Saturdays. No continuous 24-hour activities are envisaged at this stage and there will be no Sunday or Bank Holiday working.

The following table outlines the likely plant required during the construction phase.

Construction activity	Likely plant
	required
Main roads	Tracked
	excavator,
	Earth mover
Residential and employment development	Tracked
	excavator
	JCB
	Concrete and
	bitumen paver
	Site dumper
	Cement mixer
	Fork truck
Primary schools, secondary school, local centre, community	Tracked
building, public house and hotel	excavator
	Concrete and
	bitumen paver
	Site dumper
	Cement mixer
	Fork truck
Playing fields	Tracked
	excavator
	Site dumper
	Bulldozer

# 3.3 Predicted Sources of Effects

# 3.3.1 Predicted Temporary Effects during Construction

- Removal of surface vegetation and topsoil resulting in an exposed soil surface.
- Adjustment to ground levels associated with the development and perimeter road.
- Erection of temporary site fencing.
- Site compound, storage areas and contactors' car park.
- Temporary lighting and signage associated with the works.
- Construction traffic movements to and from the site.
- Adjustments to the existing road network including the A41 and potential resultant congestion.
- General building infrastructure including noise and dust, and views of large machinery and cranes.

#### 3.3.2 Predicted Permanent Effects

- Significant loss of existing farmland to development.
- New development edge and associated change in physical appearance, character and massing of the site.
- Major new areas of public informal and formal open space.
- New network of roads and associated traffic movements including the perimeter road.
- Additional lighting.
- Changes to views and landscape resources.
- Alteration to public access including additional paths through the development and open space.
- New landscape planting associated with the development and perimeter road.

# 4.0 PREDICTED POTENTIAL IMPACTS ON LANDSCAPE CHARACTER AND VISUAL RESOURCES

#### 4.1 Introduction

The existing characteristics and resources of the site and its context have been described in the baseline. The nature and significance of the predicted impacts on landscape resources is assessed in relation to landscape importance and magnitude of change envisaged. The potential impact on landscape resources - that is to say how the landscape features, character and quality may be affected - is described for each of the character types/ areas established in the baseline assessment as potentially being affected.

#### 4.1.1 Landscape Character of the Site

The site has been assessed as being of Medium Importance. Whitelands Farm is to continue as a working farm, with approximately 76 hectares of the site remaining as agricultural land. The character of the site will, however, fundamentally change. The creation of a new development of up to 1585 dwellings with secondary school and associated open space resulting in the loss of approximately 114 ha of existing agricultural land. Pingle Brook will be retained and a new linear park created along its length. Vegetation loss associated with the new development is shown on figure 23. Within the site, hedgerow loss has been minimized with the majority of existing hedgerows, and all three copses, retained. Tree loss is limited, the layout retaining those assessed as of landscape or arboricultural value. Although currently of poor quality, the fourth copse in the north east corner will be retained as it affords an opportunity to create ecological and landscape enhancement along to Pingle Brook. The dead elm and alder will be removed with the aim of establishing a wet woodland: the proposals are described further in the ecological chapter.

Significant hedgerow loss will occur as a result of the new road junctions. Along the A41, a large section of the vegetation in the central reservation will be removed. The new roundabout will also require the removal of a section of hedgerow along the western edge of the A41. The two new roundabouts on Middleton Stoney Road and the link road to the A4095 will result in the loss of three further sections of hedgerows. All of these hedgerows have been assessed as worthy of retention, although their quality is mixed. Loss of vegetation will be compensated, in the long term, by major new structure planting outlined on the master plan. New woodland and copse planting is also proposed, with in excess of 5km of new hedgerow proposed.

The retention of the agricultural land, combined with the 16 hectares of open space along the southern edge of the development, will provide a transition and buffer from the new urban area in the north to the rural edges of the site in the west and south. The perimeter road has been designed to fit with the landform, minimizing earthworks and helping to assimilate the road with the landscape. The road is single carriageway and will not be lit (except at junctions), helping to minimize the urbanizing effect of this feature. Traffic along the road, will, nevertheless, alter the rural character of this part of the site.

The magnitude of change is large, resulting in a substantial impact. The nature of the impact will depend largely on the quality of the new development. Potentially, a new high quality urban edge will be created as a gateway to Bicester. However, because of the loss of agricultural land, the detrimental impact of the perimeter road that crosses the site, and loss of existing vegetation the impact on the character of the site has been assessed as *a adverse substantial landscape impact*. This is considered to reduce to a moderate adverse landscape impact once proposed planting becomes established.

# **4.1.2** Character Type 1 – Wooded Estatelands

This area has been assessed as being of medium importance. The site and Bignell Park, which lie within this wider character type have been assessed separately.

Much of this character type will remain unaffected and the development needs to be considered in the context of Bicester. The highest inter-visibility between the site and this landscape is from the south. This area includes the village of Chesterton. The retention of agricultural land in the south of the site, and the proposed strategic open space along the southern edge of the development, will provide a gradual transition from the development edge to the rural landscape of this character type. Potential views of the development edge, and of the perimeter road, are limited by the existing landscape structure, especially the woodland along Gagle Brook. Where the development and perimeter road is visible, it will be viewed across open landscape and will not be substantially uncharacteristic when compared with the existing context. Potential benefits to the centre of Chesterton have been assessed as a result of through traffic being diverted onto the perimeter. The magnitude of change has been assessed as small /medium, resulting in a *moderate adverse landscape impact*.

# 4.1.3 Character Type 3 - Wooded Hills.

This area has been assessed as medium importance. None of the elements/ features that make up this landscape will be directly affected. Where views of the development are available from this area, it will be seen in the context of Bicester and the existing MOD depot in the foreground. The development is therefore not considered to appear uncharacteristic. The magnitude of change is considered to be small, resulting in a *slight adverse landscape impact*.

#### 4.1.4 Character Type 4 – Clay Vale.

This area has been assessed as being of medium importance. The site, which lies within this wider character type, has been assessed separately.

Much of this character type will remain unaffected. Potential effects will be limited to the immediate landscape adjoining the site. The character of the landscape is still extensively rural - see character photography C4, although the M40 motorway and the A41 are degrading features. Limited views of the

development will be available, but the intrinsic character of this landscape type is not considered to be significantly affected by the development. The magnitude of change has been assessed as small, resulting in a *slight adverse landscape impact*.

# **4.1.5** Character Type 5 – Alluvial Lowlands

This character type has been assessed as being of medium/high importance. None of the elements/ features that make up this landscape will be directly affected. Views in and out of this landscape are restricted by the combination of the low-lying land and vegetation pattern, see character photograph C5. Potential views of new lighting associated with the roundabout on the A41 will have a slight detrimental effect. The intrinsic rural character of this landscape type is not considered to be affected by the development. The magnitude of change is assessed as negligible resulting in a *no landscape impact*.

# 4.1.6 Character Area 10 – Midvale Ridge

This character area has been assessed as being of medium/high importance. The development is at a distance of approximately 8km. Where visible it will constitute a small part of the existing view. The fine panoramic views out across the clay lowlands from this landscape, which contribute significantly to the landscape's character and value, will not be affected. A negligible magnitude of change has been assessed, resulting in *no landscape impact*.

#### 4.1.7 Character Type 11 – Urban Fringe

This character type has been assessed as being of low importance. Despite its proximity to the site, inter-visibility is low. The development along the eastern edge of the site will alter the character of the adjoining landscape, making it more urban. However, from this character area the urbanizing effect of this will not be uncharacteristic, and potentially could enhance the quality and amenity which is currently degraded and discordant. A small magnitude of change has been assessed, resulting in a *slight beneficial impact*.

#### 4.1.8 Character sub area 1a - Bignell Park

This area has been assessed as being of medium importance. No physical effects to landscape features are predicted within this character area. Despite the site's proximity, inter-visibility is low due to dense planting within the park and a hedgerow along the western edge of the site. The main development will be approximately 0.5km from the park with the existing arable land remaining in the foreground. The principal change to the character area will be associated with the new perimeter road, Middleton Stoney roundabout and link to the existing A4095.

Approximately 80m of existing hedgerow along the eastern edge of the lane will be removed, opening up views across the site. To the east of the hedge, traffic on the new perimeter road will be visible through the gap, and, in winter time, heavily filtered views will be available through the hedge. Noise from the traffic will be audible; however, the northern section of the A4095 will be closed off to traffic (except for buses) thereby moving traffic away from the park's edge and improving the amenity in this area. The magnitude of change is considered to be medium. Planting along the eastern edge will, once established, repair the landscape structure and reduce the visibility of the perimeter road. A *moderate adverse landscape impact* to this character will result, predicted to reduce to slight adverse once the planting is established.

# 4.3 Summary of the Significance of Landscape Character Impacts

The significance of impact on the site is summarised below:

Character Area	Landscape	Magnitude of	Significance of
	Importance	Landscape	<b>Landscape Impacts</b>
		Change	
Site	Medium	Large	Substantial Adverse
Type 1- Wooded	Medium	Small/Medium	Moderate Adverse
Estatelands			
Type 3 - Wooded Hills	Medium	Small	Slight Adverse
Type 4 - Clay Vale	Medium	Small	Slight Adverse
Type 5 – Alluvial	Medium/High	Negligible	None

Lowlands			
Area 10 - Midvale Ridge	Medium/High	Negligible	None
Type 11 – Urban Fringe	Low	Small	Slight Beneficial
Sub Area 1a – Bignell	Medium	Medium	Moderate Adverse
Park			

Figure 7 – Summary of the significance of Landscape Resource Impacts

# 4.4 Predicted Potential Impacts on Visual Amenity

Changes in visual amenity will be generated as a direct consequence of changes in the appearance of the site. The changes will be experienced by the receptors identified in the baseline. The impact is assessed at completion, assuming a 'worst case' or winter situation. Changes during other periods are highlighted separately, including changes during summer. Predicted changes to night-time views are also assessed.

#### 4.4.1 Local

#### Views from the north

A number of properties along the southern edge of Bicester will have views of the new development from rear windows, although existing vegetation along the B4030 (Middleton Stoney Road) and in rear gardens will provide a partial screen. An assessment of the impact has been undertaken for these properties based on analysis from the site looking back, and nearby public locations. The perimeter road has been aligned so that it is kept away from these properties, and arable farmland will remain the main landscape component in the view for properties to the west. Further east, the new development will be visible in the foreground.

All properties will benefit from the traffic calming measures proposed along Middleton Stoney Road, with the number of vehicles, and their speeds, reducing. Views from these properties are assessed as of medium importance. The magnitude of change is considered to be small/medium, resulting in

*moderate adverse visual impact*. During the construction phase, views of the machinery soil stripping and building work will be intrusive, resulting in a substantial adverse visual impact whilst the construction phase lasts.

# Viewpoint 2

This view will be available to motorists and cyclists using the A4095. The view from the road is considered to be of low/medium importance. The principal change to this view will be a new roundabout visible at the junction with Middleton Stoney Road. The new roundabout will result in the loss of vegetation along the edge of the site opening up views across arable land. The development will not be visible. The key components of the view (the road) will not significantly change. The magnitude of change to this view is assessed as small/medium, resulting in a sight/moderate adverse visual impact.

During construction: Construction of the new roundabout primarily, but also perimeter road will be intrusive in this view. Machinery, soil stripping and storage will be clearly visible. A medium adverse visual impact is assessed during the construction.

10 years after completion: Once established, proposed hedgerow planting will enclose the view and repair the landscape structure. The visual impact will reduce to *slight adverse* 

Seasonal difference- No change to the visual impact assessed.

*Night conditions* – New lighting columns on the roundabout will increase night-time lighting in this location, but this will be seen in the context of Bicester. The lighting potentially could have an adverse impact on nearby properties and should be designed to reduce light spillage.

#### Viewpoint 10

Located within the site, this view is not currently available to the public, but will be once the scheme is completed. Intrusive features such as the service

station and pylons currently degrade the view of mostly open countryside. The view is assessed as low to medium importance. The existing view will completely change: a new public park with balancing lakes being created along Pingle Brook, overlooked by new housing and health/employment. The magnitude of change will be large, resulting in a *moderate to substantial visual impact*. A new high quality urban edge and park (which will screen the intrusive service station) is considered to potentially enhance the existing view. However, it is a matter of personal perspective whether views of a park and development is preferable to the existing view of fields and poor quality development. Therefore a *subjective visual impact* has been recorded.

*During construction:* This view will not be available to the public until this part of the development is complete.

10 years after completion: Planting within the park will help to soften the development edge.

Seasonal difference: No change to the assessment at completion.

*Night conditions*: Night time lighting will increase significantly, but will be seen in the context of a new urban quarter.

#### Viewpoint 16

The main receptor will be residents of the nearby housing. The view is considered to be of low/medium importance. The majority of this view will remain unchanged. Through the gap in the existing housing a new development edge, set back from Middleton Stoney Road, will replace a broken view of the site. A small/medium magnitude of change is predicted, resulting in a slight/moderate adverse visual impact.

During construction: Construction traffic will be intrusive in the view; a slight/moderate adverse visual impact has been assessed.

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10 years after completion: Planting in the park along Pingle Brook will begin

to frame views of the new development, reducing the level of impact to slight/

none

Seasonal difference: Existing trees and hedgerow along the A41 currently limit

views of the site in summer.

Night conditions: Lighting associated with the development will have a limited

impact in the context of the existing urban view.

Viewpoint 17

The main receptors are currently residents of, and visitors to, the existing

properties within the site. The existing view of open arable farmland will be

completely altered by the new development. Along the farm track a 'green

corridor' approximately 20m wide is proposed with development fronting the

green space either side. The farm track will be closed off to traffic and become

a cycle and pedestrian route through the development to the open space. The

view will be commonly experienced and it has therefore been assessed as of

medium importance. The magnitude of change is large, resulting in a

substantial visual impact. However, it is a matter of personal perspective

whether a new green corridor with high quality development overlooking it is

beneficial or adverse change. Therefore a subjective visual impact has been

recorded.

During construction: During the construction phase site machinery, soil

stripping/mounding and construction works will be highly intrusive. A

substantial adverse visual impact is assessed.

10 years after completion: Planting along the green corridor will enhance the

view further as compared to completion.

Seasonal difference: No change to that assessed at completion.

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*Night conditions:* Night time lighting will increases significantly, but will be seen in the context of a new urban quarter.

#### Views from the east

Along the eastern edge of the development a mix of housing and employment is proposed, up to four storeys high. Development at this height would be clearly visible above the hedge along the western edge of the A41 and would form a new skyline in nearby views. Receptors in the east include the users of the private sports ground, shoppers using Tesco and Bicester Village Factory Outlet and private properties to the north of the sports ground. From these areas, views are already mostly of built development and therefore are considered to have a high tolerance of change.

# Viewpoint 12

The receptors of this view would be motorists and pedestrians using King's End Road, and the nearby sports club. The view has been assessed as of medium importance, being a busy public area on the edge of Bicester. The new development will be clearly visible, forming a prominent new development edge beyond the existing hedge (to be retained); important views of countryside will not be lost. The magnitude of the change is considered to be medium, resulting in a moderate to substantial visual impact. It is considered that the new urban edge will be a positive feature resulting in a beneficial impact. However, this assessment is subject to an individual's perception and therefore the impact has been assessed as subjective.

*During construction:* During the construction phase site machinery, soil stripping/mounding and construction works will be visible on the skyline. A moderate adverse visual impact is assessed.

10 years after completion: No significant change to the visual impact assessed at completion.

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Seasonal difference: No change to the impact assessed at completion.

Night conditions: New lighting will be seen in the context of existing lights

along roadways and in nearby properties.

Viewpoint 7

This view will be available to users of the service station and Little Chef. From

these areas the focus is unlikely to be on the landscape and the tolerance to

change is high. The view is considered to be of low importance. The view will

completely change with a new development edge totally obscuring views of the

countryside beyond. The magnitude of change is large. A moderate adverse

visual impact has been assessed for this view.

During construction: During the construction phase site machinery, soil

stripping/mounding and construction works will be highly visible. A

substantial adverse visual impact is assessed.

10 years after completion: No change to the impact assessed at completion.

Seasonal difference: No change to the impact assessed at completion.

Night conditions: New lighting will be seen in the context of the intrusive

lighting of the service station.

Viewpoint 1

This is a transient view from the flyover on the A41, the main receptor being

motorists. The site, whilst forming the main part of the view, is unlikely to be

the main focus of the receptor. The importance of this view has been assessed

as low/medium. Agricultural land will remain in the foreground. The new

housing edge and secondary school will be clearly visible, as will the perimeter

road. The existing landscape structure will help to assimilate the new

development edge within landscape, especially in summer. New structure

planting will, once established, significantly screen views of the perimeter road

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and soften the development edge. In the context of the A41, which is already dominant feature in the view, it is considered that the magnitude of change is medium. A *moderate adverse visual impact* is assessed.

*During construction:* Views of the construction machinery will increase the adverse visual impact to medium/substantial adverse.

10 years after completion: Once structure planting has established the view of the development, and, in particular, the perimeter road will be reduced and framed. The visual impact is considered to reduce to slight adverse.

Seasonal difference: The visual impact is considered to be less during summer months.

*Night conditions*: Whilst the site currently has very little night time lighting, in this view car lights along the A41 and the service station/edge of Bicester are already intrusive. In this context the new lighting associated with the development is not considered to be significant.

#### Views from the South

Views from the south are sensitive, and include the conservation area of Chesterton. There are very few public locations where views of the site are available. The majority of views are from private properties/land. To better understand potential visual impacts from the south, long sections across the site were produced from the north and southern edges of Chesterton; these are shown on figure 24.

#### Viewpoints 6 and 14

These views are taken from the southern edge of the site looking north. The hedge along the southern edge of the site heavily screens views of the site for motorists, cyclists and pedestrians using the lane east of Chesterton. The above

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receptors will only experience these views if they stop at the lay-by. Similar

views will also be experienced from the nearby footpath crossing the site.

Both views are extensively of semi-open rolling farmland and rural in

character. Both are considered to be of medium importance.

From viewpoint 6, the ridgeline will screen much of the development and the

perimeter road. The roofscape of the development will just be visible beyond

the ridgeline. Farmland will remain the prominent landscape component in this

view. Structure planting will further reduce views of the proposals. Section A-

A on figure 24 is from this point and illustrates the screening effect of the

landform and structure planting. The magnitude of change is considered to be

small, resulting in a *slight/moderate adverse visual impact*.

During construction: No change to the visual impact assessed

10 years after completion: Planting will significantly screen views, the impact

is assessed as reducing to slight adverse

Seasonal difference: No change to the visual impact assessed.

Night conditions: Lighting associated with the perimeter road and open space

to the east will potentially be visible in winter months especially. The absence

of light pollution currently in this views means that the impact is considered to

increase to moderate adverse for night-time views.

Viewpoint 14 is further east where the ridgeline has graded out. The edge of

Bicester is already visible from this location. This will be replaced with a view

of the south-west edge of the development across farmland and the new open

space. The eastern section of the perimeter road will be clearly visible crossing

the landscape and is considered to be the principal intrusive element. Structure

planting will help to reduce the impact, once established. A medium magnitude

of change is predicted resulting in a substantial adverse visual impact.

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During construction: Construction machinery will be clearly visible.

10 years after completion: Planting will have a significant effect reducing the visual impact to moderate adverse.

Seasonal difference: The existing summer and winter views demonstrate that the new development edge will be more visible during winter.

Night conditions: Lighting on the new roundabout on the A41 and 100m either side of the eastern T-junction into the development is considered to be the most intrusive night time element, but this will be seen in the context of Bicester beyond.

The south-eastern edge of Chesterton is designated a conservation area. Views of site are heavily screened by woodland along Gagle Brook. The perimeter road will be located north of an existing hedgerow proposed to be strengthened significantly with new woodland planting. A combination of existing and proposed planting will mean views of the proposals from this part of Chesterton will be limited, refer to viewpoint 15. No public views of note have been determined. There are some views from a limited number of properties (including some listed) towards the site from the northern edge of the conservation area. Where views of the site are available, they have been assessed as of high importance. The magnitude of change is assessed as negligible/small, resulting in a slight/moderate adverse visual impact.

From the north-eastern edge of Chesterton very few views of the site are available from public areas. Most potential views of the proposals will be from private receptors. The primary school has been determined as one location where the proposals may be visible. Section B-B on figure 24 is from this location and illustrates the screening effect of the landform and planting. Whilst views of the development (0.85km away) and perimeter road and traffic (0.5km away) would not be screened by the landform, proposed structure

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planting - shown at 5m high on the sections, would have a significant screening

effect. This new woodland screen would be further strengthened by existing

planting along Gagle Brook (not shown on section B-B). The perimeter road

and development are a significant distance from these receptors and the

majority of the view will remain agricultural land. The views from this part of

Chesterton are assessed as medium importance. The magnitude of change is

assessed as small/medium, resulting in a moderate adverse visual impact. This

is predicted to reduce to slight adverse once the structure planting establishes.

Viewpoint 8

The viewpoint has been assessed as medium importance and is available to

local residents and members of the public using Alchester Road. The

magnitude of change is assessed as negligible resulting in *no visual impact*.

During construction: As assessed at completion.

10 years after completion: As assessed at completion.

Seasonal difference: As assessed at completion.

*Night conditions:* As assessed at completion.

Views from the west

Views from the west are limited to the immediate area.

Viewpoint 19

This view will be available to walkers on the footpath. The majority of this

view will remain unchanged. Traffic on the perimeter road may be visible. The

development will be screened. The view is assessed as medium importance.

The magnitude of change is assessed as negligible/ small resulting in a slight

adverse visual impact.

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During construction: Construction machinery may be visible above the hedgerow.

10 years after completion: Structure planting will reduce the impact to none.

Seasonal difference: In summer potential views of traffic would be reduced.

Night conditions: No change to that assessed at completion.

#### Viewpoint 18

This view will be available to motorists and cyclists using the A4095. The view has been assessed as medium importance. The main impact on this view will be the loss of hedgerow. Although the majority of the hedgerow in the view will be retained, immediately opposite and to the north views will open up across the site, especially for travellers heading northwards along this section of the road. The layout of the new junction has been designed to minimize hedgerow loss; however, extensive views across the open agricultural land will become available where hedgerow is removed. Viewpoint 13 from a similar location, but within the site, illustrates how the view will change where hedgerow is removed. The loss of hedgerow will afford exposed views of the perimeter road until new planting becomes established. The western development edge will also be visible, although the majority of the view will remain as agricultural land. North of the viewpoint, the section of the road will be closed off to traffic improving the environment for cyclists and walkers. new structure planting will compensate for adverse impacts associated with hedgerow loss. The magnitude of change is assessed as largel medium resulting in *substantial adverse visual impact*.

*During construction:* The construction phase will be intrusive and result in a substantial adverse visual impact.

10 years after completion. The structure planting will alter the impact at completion from *substantial* adverse to *moderate*/slight adverse.

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Seasonal difference: Views in summer will be limited by new and existing

planting

*Night conditions:* As completion.

Viewpoint 5

The view will be experienced by walkers on the footpath across the site. It has

been assessed as medium importance. Currently the view is mostly of open

agricultural land and Whitelands Farm. Although the majority of the view will

remain agricultural land, the new perimeter road will become the prominent

element and intrusive in the view. The magnitude of change is assessed as

large resulting in a substantial adverse visual impact. The impact is assessed

as remain unchanged during construction, 10 years after completion and for

night- time views, due to the proximity of the perimeter road. This impact

would begin to decrease the further one walks away from the perimeter road,

as proposed structure planting begins to screen views of the road and traffic.

Intermediate and Distant

Beyond the local context (2km from the centre of the site), there are very few

areas where the site is visible. No substantial adverse visual impacts have been

determined. The following representative viewpoints have been included from

these distances.

Viewpoint 11

In the context of the existing view, the proposals, which will be visible beyond

the MOD buildings, will not be intrusive. The view is currently not available to

the public and, for this reason, the view has been assessed as low importance.

The magnitude of change is small resulting in a slight adverse visual impact.

During construction: As assessed at completion.

10 years after completion: As assessed at completion.

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Seasonal difference: As assessed at completion.

*Night conditions:* As assessed at completion.

Viewpoint 9

The view is transient, seen briefly by motorist whilst on the overbridge. The

site is currently not visible from this location, but the ZVI modelling has

determined that potential views of the roofscape may be available from this

location. The importance of the views is assessed as low. The magnitude of

change is negligible, resulting in *no impact*. The impact is assessed as remain

unchanged during construction, 10 years after completion and for night-time

views.

Viewpoint 3

This view is available to walkers and horse riders. The importance of the view

is assessed as high. The site constitutes a small part of the view and the

northern extent (where the development is proposed) is hidden behind Graven

Hill. The magnitude of change is negligible, resulting in no impact. The

impact is assessed as remain unchanged during construction, 10 years after

completion and for night time views.

4.5 **Zone of Visual Influence (ZVI)** 

The ZVI is illustrated on figure 22 shows the worst case, based on the building

heights plan. It can be seen that, for the most part, the ZVI is unchanged from

the visual envelope, although it does include some areas of additional land. To

the north west, potential views of the development (primarily its roofscape)

have been determined, and to the east of the A41 potential views of the

development either through or above vegetation, or as a result of vegetation

loss, may occur.

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# 4.6 Summary of the Significance of Visual Impacts

Visual Receptors	Importance of	Magnitude of	Significance of Visual
	Visual Receptor	Change	Impacts
Local-			
Views from the north			
Properties on southern	Medium	Small/medium	Moderate adverse
edge of Bicester.			
Viewpoint 2	Low/medium	Small/medium	Slight/moderate adverse
Viewpoint 10	Low/medium	Large	Moderate/substantial
			Subjective
Viewpoint 16	Low/medium	Small/medium	Slight/moderate adverse
Viewpoint 17	Medium	Large	Substantial subjective
Views from the east			
Viewpoint 12	Medium	Medium	Moderate/substantial
			subjective
Viewpoint 7	Low	Large	Moderate adverse
Viewpoint 1	Low/medium	Medium	Moderate adverse
Views from the south			
Properties in	High	Negligible/small	Slight/moderate adverse
Chesterton			
conservation area.			
Chesterton Primary	Medium	Small/medium	Moderate adverse
School/nearby			
properties			
Viewpoint 6	Medium	Small	Slight/moderate adverse
Viewpoint 14	Medium	Medium	Substantial adverse
Viewpoint 8	Medium	Negligible	None
Views from the west			
Viewpoint 19	Medium	Negligible/small	Slight adverse
Viewpoint 18	Medium	Large/medium	Substantial adverse
Viewpoint 5	Medium	Large	Substantial adverse
Intermediate/Distant			
Viewpoint 11	Low	Small	Slight adverse
Viewpoint 9	Low	Negligible	None
Viewpoint 3	High	Negligible	None
Figura 8	G 6.1 G	nificance of Visual	<u> </u>

Figure 8 – Summary of the Significance of Visual Impacts

#### 5.0 PROPOSED MITIGATION

# **5.1** Site Mitigation Measures

Mitigation has been an integral part of the master plan proposals and is inherent in the design of the scheme. Proposed planting, including new areas of woodland, copse trees and hedgerows, will result in a significant increase in the number of trees and hedgerows within the site.

The proposals on the master plan, including the structure planting, have been considered as part of the preceding assessment. This section discusses secondary mitigation, the details of which have not been determined at this stage.

#### Minimise scale of buildings and use of materials to reduce visibility

Controlled use of colour and materials is recommended to minimise unnecessary or unintentional visual impacts in the wider landscape, especially along the southern and western edges. Buildings heights and plot layouts should be carefully designed to provide a varied roofscape.

# Minimise night-time effects by careful design and location of lighting

The absence of lighting along the perimeter road (except at the junctions) is an important mitigation to potential adverse visual effects to the landscape. Recreational facilities that require lighting have been located to the east next to A41 to reduce potential light pollution to residents in Chesterton. Within the development, careful consideration of the height and type of street, amenity and building lighting will be given to reduce night-time effects. Floodlighting associated with the sports pitches in the east will be designed to reduce light spillage. Planting should be used to help filter the lighting, reducing its visual impact.

# Provide additional reinforcement of existing retained landscape features to minimise effects

Extensive planting is proposed as part of the master plan. This will include the planting of new copses, hedgerows and trees around the development edge to establish framed views of the development. Extensive tree planting within the development area (not indicated on the master plan and not considered as part of this assessment) will help to soften the skyline profile of the development.

# Minimise the loss of existing trees and hedgerows

An arboricultural and landscape consultant has assessed individual trees and hedgerows across the site, and those considered worthy of retention have been incorporated into the development proposals. Existing hedgerows that are currently fragmented and comprising of dead plants or poor quality species will be enhanced. This will include new planting to infill gaps or laying existing hedges.

# 6.0 RESIDUAL LANDSCAPE AND VISUAL IMPACTS

# 6.1 Residual Impacts on Landscape Character and Visual Resources

Residual impacts are those that are predicted to remain after implementation of the mitigation measures described above. It is expected that the residual impacts will improve the proposals however there will be very little change from the predicted potential impacts described above, as the additional mitigation measures are minor elements within the large-scale proposals. The residual impacts are summarised below:

l of	inty			nable	nable		nable	nable	nable		nable		nable	nable			nable
Level of	certainty			Reasonable	Reasonable		Reasonable	Reasonable	Reasonable		Reasonable		Reasonable	Reasonable			Reasonable
Nature				Adverse	Adverse		Adverse	Adverse			Beneficial		Beneficial	Adverse			Adverse
Significance				Substantial	Moderate		Slight	Slight	None		None		Slight	Moderate			Moderate
Duration				Long Term	Long Term		Long Term	Long Term	Long Term		Long Term		Long Term	Long Term			Long Term
Magnitude of	change			Large	Small	/Medium	Small	Small	Negligible		Negligible		Small	Medium			Small/medium
Sensitivity of	receptor			Medium	Medium		Medium	Medium	Medium/	High	Medium/	High	Low	Medium			Medium
Significant Residual	Effects	Character	Areas	Site	Type 1 – Wooded	Estatelands	Type 3 - Wooded Hills	Type 4 – Clay Vale	Type 5 – Alluvial	Lowlands	Type 10 – Midvale	Ridge	Type 11 – Urban Fringe	Sub Area 1a – Bignell	Local-	Views from the south	Properties on southern
Topic				•	•	səəl	inosa	эс Ко	recsl	bnsJ			•	•		susi inər	

edge of Bicester						
Viewpoint 2	Low/medium	Small/medium	Long Term	Slight/moderate	Adverse	Reasonable
Viewpoint 10	Low/medium	Large	Long Term	Moderate/substantial	Subjective	Reasonable
Viewpoint 16	Low/medium	Small/medium	Long Term	Slight/moderate	Adverse	Reasonable
Viewpoint 17	Medium	Large	Long Term	Substantial	Subjective	Reasonable
Views from the east						
Viewpoint 12	Medium	Medium	Long Term	Moderate/Substantial	Subjective	Reasonable
Viewpoint 7	Low	Large	Long Term	Moderate	Adverse	Reasonable
Viewpoint 1	Low/medium	Medium	Long Term	Moderate	Adverse	Reasonable
Views from the south						
Properties in Chesterton	High	Negligible/	Long Term	Slight/moderate	Adverse	Reasonable
Conservation Area		small				
Chesterton Primary	Medium	Small/medium	Long Term	Moderate	Adverse	Reasonable
School/nearby						
properties						
Viewpoint 6	Medium	Small	Long Term	Slight/moderate	Adverse	Reasonable
Viewpoint 14	Medium	Medium	Long Term	Substantial	Adverse	Reasonable
Viewpoint 8	Medium	Negligible	Long Term	None		Reasonable
Views from the west						

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Viewnoint 19	Medium	Negligible/	Long Term	Slight	Adverse	Reasonable
		small				
Viewpoint 18	Medium	Large/medium	Long Term	Substantial	Adverse	Reasonable
Viewpoint 5	Medium	Large	Long Term	Substantial	Adverse	Reasonable
Intermediate/Distant						
Viewpoint 11	Tow	Small	Long Term	Slight	Adverse	Reasonable
Viewpoint 9	MoT	Negligible	Long Term	None		Reasonable
Viewpoint 3	High	Negligible	Long Term	None		Reasonable

Figure 9 - Residual Effects on Landscape Resources and Visual Amenity