South Oxfordshire Local Plan 2034 Final Publication Version 2

Infrastructure Delivery Plan

March 2019 update

South Oxfordshire District Council

Listening Learning Leading

Contents

1. Introduction

This report sets out an updated Infrastructure Delivery Plan (IDP), which focuses on the strategic sites proposed to be allocated in the Local Plan and as set out in the South Oxfordshire Local Plan 2034 Final Publication Version 2. It follows extensive work on planning for infrastructure related to planned growth, and further develops the work undertaken and reported upon in 2017 to support the last publication version of the Local Plan. It also takes into account work at a wider Oxfordshire level as reflected in the approved Oxfordshire Infrastructure Strategy (OXIS) published in November 2017.

2. Structure

This update includes the following sections

- Background and Context: This section sets out the national, regional and sub-regional context, as well as updating on other related Local Plan evidence base documents.
- Infrastructure Types and Assumptions: This section gives an overview of the assumptions on which the IDP update is given.
- Infrastructure Requirements: This section gives a summary of the infrastructure requirements for Berinsfield, Chalgrove, Culham, Grenoble Road, Bayswater Brook, Northfield and Wheatley.
- Didcot Infrastructure Requirements: This section gives a summary of the infrastructure requirements for sites in Didcot.
- District-wide and Local Infrastructure Requirements: This section takes account of wider strategic requirements, such as those identified through OXIS and infrastructure requirements that should be considered by all sites.
- Funding and Delivery: This section gives an overview of the funding situation and opportunities related to delivering the infrastructure required to support the planned growth.
- Conclusion: This section provides an overall conclusion and sets out the circumstances under which the findings of the IDP may change.

3. Background and Context

The following section summarises some of the extant policy documents and evidence base documents that frame infrastructure planning and delivery in South Oxfordshire.

3.1 National Policy Context

3.1.1 National Planning Policy

The new National Planning Policy Framework was published in July 2018 and updated in February 2019[1]. This Framework emphasises the importance of developing a robust and evidence based local plan which seeks to deliver sustainable development. Planning for infrastructure is an integral part of this, with paragraph 16 and paragraph 25 stating the importance of early and appropriate engagement with county councils and infrastructure providers in development of the plan, and paragraph 26 recognising the importance on relevant joint working on determining 'where additional infrastructure is necessary'.

Paragraph 20 also makes it clear that local plan policies should make sufficient provision for 'infrastructure for transport, telecommunications, security, waste management, water supply, wastewater, flood risk and coastal change management,' as well as 'community facilities (such as health, education and cultural infrastructure)'.

Paragraph 34 states that, 'plans should set out the contributions expected from development,' for infrastructure and that this is likely to include education, transport, flood and water management, green and digital infrastructure, as well as for affordable housing.

Paragraph 72 further states the potential for large scale development to be related to 'existing or planned investment in infrastructure,' however footnote 35 further states that, 'The delivery of large scale developments may need to extend beyond an individual plan period, and the associated infrastructure requirements may not be capable of being identified fully at the outset. Anticipated rates of delivery and infrastructure requirements should, therefore, be kept under review and reflected as policies are updated.'

Section 8 of the Framework on 'promoting healthy and safe communities' and section 9 on 'promoting sustainable transport,' further emphasise the importance of providing for infrastructure needed to support sustainable development.

[1] https://www.gov.uk/government/publications/national-planning-policy-framework--2

3.1.2 National Planning Guidance

The planning practice guidance further emphasises the importance of engaging with key infrastructure providers as part of the plan development, and emphasises that planning authorities and infrastructure providers can, 'work collaboratively to ensure that the infrastructure requirements are not beyond what could reasonably be considered to be achievable within the planned timescales.'[2]

3.2 Regional Context

3.2.1 Oxford to Cambridge Corridor

In the October 2018 budget, central government published its response to the National Infrastructure Commission's report, 'Partnering for Prosperity: a new Deal for the Cambridge-Milton Keynes-Oxford Arc'[3]. This response sets out in more detail the government commitment to supporting economic and housing growth in this area, and developing the strategic infrastructure seen as needed to support this. In relation to infrastructure, it notes the government's commitment to a co-ordinated delivery programme for progressing work on East-West Rail, the Oxford – Cambridge Expressway and work on new settlements, as well as developing an indicative, long-term pipeline of strategic national and local infrastructure investment. This response has also now been followed with a joint declaration between central government and local partners on the growth ambition for the Oxford to Cambridge Arc.[4]

South Oxfordshire will continue to engage on this work, particularly through Growth Board commissioned workstreams such as updates to the Oxfordshire Infrastructure Strategy. However, it is noted that the development of key schemes such as the Expressway are at an early stage and it is difficult to know how they may impact on the proposed growth within the current Local Plan. They are therefore not considered core mitigation for development proposed at this stage. However, once further detail on these schemes are known, this can be reflected in the planning, development and delivery of other identified necessary infrastructure, particularly transport infrastructure improvements.

3.3 Sub-regional Context

3.3.1 Oxfordshire Local Enterprise Partnership

[2] Paragraph: 056 Reference ID: 61-056-20180913 https://www.gov.uk/guidance/plan-making
[3] https://www.gov.uk/government/publications/cambridge-milton-keynes-oxford-arc-study-government-response
[4] https://www.gov.uk/government/publications/the-oxford-cambridge-arc-government-ambition-and-joint-declaration-between-government-and-local-partners

OxLEP determines strategic economic priorities including investments and activities to drive growth and create jobs in the county. OxLEP has managed to gain funding from a series of national funding streams including Local Growth Fund[5], City Deal[6] and the Growing Places Fund[7].

Local Growth Fund

Under the Local Growth Fund (Growth Deal 1), OxLEP has managed to secure over £95 million to invest in priority projects and infrastructure. Those projects that will be of benefit to South Oxfordshire include:

- Science Vale Cycle Network Improvements
  £4.9 million (£4.5 million from the Local Growth Fund). A sustainable transport scheme funding cycle routes, including improvements to connectivity between Science Vale and Didcot station by bike. This project is being be delivered by Oxfordshire County Council.
- Didcot Station Car Park Expansion
  £23 million (£9.5 million from the Local Growth Fund): Packages of measures for car park expansion including construction of a deck access car park on the existing Foxhall Road car park. This is part of the expansion and improvement of Didcot station as a key gateway to the Science Vale high-tech cluster and the Enterprise Zone. This project is being delivered by Great Western Railway.

OxLEP has also secured further funds under Growth Deal 2 and Growth Deal 3 (£9.8 million and £24 million respectively), although there are limited funds secured as part of round 2 and 3 specifically for infrastructure improvements.

Oxfordshire Local Industrial Strategy

A Local Industrial Strategy (LIS) is being prepared for Oxfordshire, which builds on the Oxfordshire Strategic Economic Plan (SEP). The LIS will provide a long-term vision for growth to raise productivity and earning power. It will provide a framework to guide Government, public and private sector investment decisions and financing tools to be used to deliver the strategy.

3.3.2 Oxfordshire Partnership / Oxfordshire Growth Board

To help generate a coordinated response to growth across Oxfordshire, the Oxfordshire Partnership has been put in place which brings together organisations from the public, private, voluntary and community sectors, and all five district councils.

[5] https://www.oxfordshirelep.com/content/local-growth-fund
[6] https://www.oxfordshirelep.com/content/city-deal
[7] https://www.oxfordshirelep.com/content/growing-places-fund

The Oxfordshire Partnership has established the Oxfordshire Growth Board, which is a joint committee of the six councils (including Oxfordshire County Council) to foster joint working on growth and ensure a joined-up approach on matters of infrastructure.

Oxfordshire Infrastructure Strategy

In 2017, the Growth Board commissioned a county-wide Oxfordshire Infrastructure Strategy (OXIS), which presents an overview of growth patterns, assesses the infrastructure required to support the growth, and estimates likely costs and funding gaps. It is not intended to supersede or replace local studies (including this IDP), but it is a useful reference point for strategic infrastructure issues across the county. The final Stage 2 report was published and endorsed by the Growth Board in November 2017[8].

OXIS prioritises infrastructure improvements based on available evidence. Key schemes relevant to South Oxfordshire have been included in this IDP. The OXIS work confirms that there is a significant gap between the cost of the infrastructure Oxfordshire is likely to need by 2040, and the funding available to deliver it.

Oxfordshire Housing and Growth Deal

The Oxfordshire Growth Board signed a Housing and Growth Deal with central government in November 2017, with further details on how this would be administered in March 2018.

Infrastructure workstream

The Housing and Growth Deal has secured £215 million of investment over the next 5 years towards affordable housing (£60 million), and infrastructure improvements (£150 million)[9] . The infrastructure fund is being prioritised to help fund schemes that unlock delivery of housing sites over the next 5 years, with decisions on prioritisation and programming of funds being undertaken by the Oxfordshire Growth Board.

In November 2018, the Growth Board agreed a list of infrastructure to which funding should be allocated, which is split between those needing funding in year 1 and those that would require funding in years 2-5[10]. In summary, for South Oxfordshire funds have been agreed to be allocated towards the following schemes:

- Year 1 (2018/19): Watlington and Benson Relief Roads
- Years 2-5 (2019/2020-2022/2023): Didcot Garden Town: Central Didcot Transport Corridor Improvements and Jubilee Way Roundabout Improvements, Thame to Haddenham Cycle Route

[8] https://www.oxfordshiregrowthboard.org/projects/oxis-stage-2/
[9] https://www.gov.uk/government/publications/oxfordshire-housing-deal
[10] https://www.oxfordshiregrowthboard.org/infrastructure-programme-to-unlock-over-500-million-of-investment-across-oxfordshire/

In addition, a 'scheme advancement allowance' was identified to fund schemes that could come forward in this time period that would help deliver further new housing.

These schemes will now be progressed by the County Council for detailed design and delivery, subject to progression through their project management processes, and relevant match funding coming forward.

Oxfordshire Plan 2050 (Joint Statutory Spatial Plan)

As part of the Oxfordshire Growth Deal, all planning authorities have committed to developing an Oxfordshire Plan (Joint Statutory Spatial Plan) which will set out strategic plans for growth across Oxfordshire to 2050. It will effectively plan for growth following the current and emerging Local Plans, and build on growth already allocated through district level local plans.

To coincide with the development of the Oxfordshire Plan, it is planned that OXIS is reviewed and updated, to ensure priorities for infrastructure investment take into account the location and quantum of growth proposed. It is intended that future versions of the South Oxfordshire IDP will reflect any update to OXIS and any related evidence base.

3.3.3 Oxfordshire Local Transport Plan, 'Connecting Oxfordshire.'

The County Council has an Oxfordshire Local Transport Plan, with the latest version, Local Transport Plan 4, updated in 2016[11]. The plan sets out an overall strategy for transport in Oxfordshire, as well as having several area strategies for the identified growth areas in the County. The most relevant strategies related to the South Oxfordshire Local Plan strategic sites are the Science Vale Area strategy and the Oxford strategy. Also of relevance, particularly for the Grenoble Road strategic allocation, is the Park and Ride report.

3.4 South Oxfordshire Local Plan Context

The emerging South Oxfordshire Local Plan allocates homes at a number of strategic sites. However, it is noted that these sites are not due to start delivering homes for several years, and will in several cases not be fully built out until beyond the plan period. The location of the proposed strategic allocations is shown in Appendix 1.1. The trajectory for each site is shown in Appendix 1.2.

The identification of infrastructure requirements for these sites is therefore under development, and will be informed by more detailed evidence, including that undertaken to support the planning application process and wider infrastructure strategy updates, such as for OXIS. The infrastructure requirements identified are therefore a starting point for review

[11] https://www.oxfordshire.gov.uk/residents/roads-and-transport/connecting-oxfordshire

through more detailed work and should be considered in line with the policies within the plan. They will be updated in subsequent versions of the IDP, which remains a 'living document' throughout the period of the Local Plan.

It is also important to note that there are interdependencies between sites. One site may, for example, depend on another site for new school provision. This IDP cannot set out all the interdependencies, not least because the timing of development may change. Developers are encouraged to cooperate with each other and infrastructure providers. Legal agreements or conditions will be negotiated at planning application stage and can set out requirements related to the provision of infrastructure in relation to the development proposed.

3.4.1 Relevant evidence base development

Previous Infrastructure Delivery Plan

Two Infrastructure Delivery Plan reports were produced to support the last consultation stage of the Local Plan. This work including extensive engagement on infrastructure issues with a wide range of stakeholders. It also considered and recommended infrastructure requirements for strategic sites proposed at this time, which included the Chalgrove, Culham and Berinsfield sites which are still proposed for allocation in the 2034 Final Publication Version 2 of the Local Plan. In summary, the reports produced were:

- A stage 1 report published in March 2017 which included an overview of different infrastructure areas, and outlined likely infrastructure requirements. This reflected engagement with key infrastructure providers in the form of a stakeholder workshop.
- A stage 2 report published in October 2017 which included a more detailed infrastructure schedule, taking into account the strategic sites and neighbourhood plan targets included in that version of the plan[12]

Local Plan Viability Report

To support the new version of the Local Plan, a site assessment viability report has been produced. The viability work has included engagement with site promotors on development of their proposed sites and engagement with infrastructure providers on forecast infrastructure costs. This IDP has built on work undertaken to inform the viability report, providing greater detail where this is now possible.

Water Cycle Study and Strategic Flood Risk Assessment Study (SFRA)

Updated Water Cycle Study and SFRA reports have been produced to support the new version of the Local Plan. These should be considered alongside the IDP when considering

[12] http://www.southoxon.gov.uk/services-and-advice/planning-and-building/planning-policy/evidence-studies

required upgrades to wastewater treatment and water supply facilities, and required flood management and mitigation measures.

Evaluation of Transport Impacts Work

An updated Evaluation of Transport Impact Study (ETI Stage 3 and relevant addendums) has been produced to support the new version of the Local Plan. This has helped identify transport schemes required to support delivery of the new version of the plan, which is reflected in the updated IDP infrastructure schedules.

4. Infrastructure Types and Assumptions

The IDP is a 'living document' and outlines the current situation regarding infrastructure required at the particular time it is undertaken. It is recognised that planning for infrastructure is complex, and that infrastructure providers plans can change due to wider considerations such as central government policy or plans and funding or proposals for development in surrounding authorities. It is therefore important to document the evidence base for the requirements set out in each version of the IDP for each infrastructure type, and any assumptions used to calculate infrastructure costs. The following summarises the position for this IDP update:

Education

Primary and secondary education requirements and costs for each proposed site allocation have been provided by Oxfordshire County Council. It is important to note that these are based on information currently available, for example on planned cross district border growth, and could be subject to change prior to any planning applications coming forward.

Transport and Highways

Costs of key highway infrastructure schemes have been provided by Oxfordshire County Council and in some cases have been derived from OXIS, updated as needed through engagement with the County Council. Costs reflect the most up to date information available including, where relevant, work undertaken by site promotors. These could change as, for example, strategic highways schemes are taken through more detailed feasibility stages.

Leisure

A cost for each proposed strategic site has been calculated based on latest leisure standards[13] and broken down by leisure type (sports facilities, playing pitches and local leisure facilities), as outlined in table 2. These standards vary by sub-area. The sub-areas are shown in Appendix 1.3. It is important to note that the leisure costs are based on information currently available and could be subject to change prior to any planning application coming forward.

[13] Leisure standards are based on the Sport England Facility costs Q2 2018, the Sports England sports facility calculator for sports halls, swimming, health and fitness and artificial grass pitches, and draft leisure study standards.

Table 2: Leisure Standards

Leisure type		**West area – includes Berinsfield, Culham Grenoble Road**	**North area- includes Chalgrove, Land north of Bayswater Brook, Northfield**
Sports Facilities	Sports Hall	0.3 badminton courts per 1,000 population	0.3 badminton courts per 1,000 population
	Swimming pool space	11.4 sq. m of water space per 1,000 population	11.4 sq. m of water space per 1,000 population
	Fitness Gym Building	4.2 fitness stations per 1,000 population	4.2 fitness stations per 1,000 population
	Fitness stations equipment	4.2 fitness stations per 1,000 population	4.2 fitness stations per 1,000 population
	Studio Space	0.14 sq. m of studio space per 1,000 population	0.14 sq. m of studio space per 1,000 population
	Athletics	0.3 athletics, cycling and walking routes per 1,000 population	0.3 athletics, cycling and walking routes per 1,000 population
	Indoor Bowls	0.06 facility per 1,000 population	0.08 facility per 1,000 population
	Indoor Tennis Facility	0.03 facility per 1,000 population	0.03 facility per 1,000 population
	Squash Court	0.1 courts per 1,000 population	0.1 court per 1,000 population
	Gymnastics Centre	0.04 centre per 1,000 population	0.02 centre per 1,000 population
Playing Pitches	3G AGP full size	0.093 pitches per 1,000 population	0.093 pitches per 1,000 population
	Hockey	0.03 courts per 1,000 population	0.03 courts per 1,000 population
	Changing Rooms	Capital cost dependant on pitch requirement	Capital cost dependant on pitch requirement
	Football Pitches	0.65 pitches per 1000 population	0.65 pitches per 1000 population
	Rugby Pitches	0.11 pitches per 1000 population	0.11 pitches per 1000 population
	Cricket Pitches	0.08 pitches per 1,000 population	0.08 pitches per 1,000 population
Local Leisure Facilities	Outdoor Tennis	0.38 courts per 1,000 population	0.38 courts per 1,000 population
	Outdoor Bowls	0.08 courts per 1,000 population	0.08 courts per 1,000 population

Note: A sinking fund and maintenance costs will also be required.

Open spaces

There are a number of standards for open space set out in the South Oxfordshire Open Spaces Study, January 2017[14], as follows:

Table 3: Open Space Standards

Open space type	**Quantity per 1,000 population**
Parks and Gardens and Amenity Green Space	1.4 ha per 1000 in the Towns and Larger Villages
Children's Play and provision for young people	0.25 ha per 1,000 of Designated Equipped Playing Space 0.3ha per 1,000 for teenage/ MUGA provision
Allotments	0.4 ha per 1000

The previous version of the IDP (October 2017) used these standards and information from SPONs Price Book, 2016 to calculate figures for proposed open spaces costs. These have been used as the basis for the costs included in this version of the IDP, and could be subject to change and update prior to any planning application coming forward.

Primary Care

Unless stated otherwise, the primary care (GP provision) costs have been calculated based on the expected contribution ask from the Clinical Commissioning Group (CCG). This is on the basis of advice provided by the CCG, which is based on agreement of their Primary Care Commissioning Committee in 2017 [15].

Community Facilities

Costs for each strategic site have been calculated for recycling and waste, street naming and numbering, public art, and community halls. These are based on the cost per dwelling outlined in the South Oxfordshire and Vale of White Horse S106 financial contributions and fees Schedule (December 2018)[16]. Costs for community halls are provided on the same basis as Leisure costs, as outlined above.

[14] http://www.southoxon.gov.uk/ccm/support/dynamic_serve.jsp?ID=880598458&CODE=7F6894AD2105C22FD843DB6CA5AE2730

[15] https://www.oxfordshireccg.nhs.uk/documents/meetings/opccc/2017/07/2017-07-25-Paper-6-Primary-Care-Infrastructure.pdf

[16] http://www.southoxon.gov.uk/sites/default/files/August%202017%20S106%20monitoring%20fee%20schedule.pdf

5. Infrastructure Requirements for strategic sites in the local plan

5.1 Berinsfield

The Local Plan proposes to inset the built-up area of the village and an area of greenfield land to the east of the village from the Green Belt to deliver 1,700 dwellings, with 1,600 of those expected to be delivered during the plan period. Delivering growth and regeneration at Berinsfield promotes a sustainable pattern of development that will address key issues currently facing the village. The delivery of appropriate infrastructure will form an important element of delivering the masterplan in order to regenerate Berinsfield.

Key infrastructure requirements for Berinsfield include:

- One primary school, expected to be 2 Form Entry, including early years provision, to meet the needs of the additional housing. Site area to allow for expansion to 3 Form Entry.
- A secondary primary school site to be protected to allow for the relocation of the existing school, should that be the outcome of local consultation. Possible expansion of the existing Abbey Woods Primary School.
- Contributions to an off-site secondary school
- Contributions to an off-site SEN school
- Significant contributions towards the upgrading of the A4074/ B4015 Golden Balls junction, Culham-Didcot Thames River Crossing and the Clifton Hampden bypass
- Enhancements to encourage sustainable travel
- Access improvements and junction upgrades
- Regeneration improvements, including new and expanded premises for a health centre, new premises for the Abbey Sports centre, and a Community Hub building
- Provision of green infrastructure and open space
- Sufficient upgrades to the sewage, water, gas and electricity networks

The full infrastructure schedule with further detail for Berinsfield can be found in Appendix 2.1.

Other mitigation measures may be required as identified through an agreed transport assessment.

5.2 Chalgrove Airfield, adjacent to Chalgrove

Chalgrove Airfield is a former Second World War airfield located directly north of the village of Chalgrove, north east of the B480, approximately 11 miles to the east of central Oxford and approximately 5 miles south of junction 7 of the M40 motorway. The land is owned by

Homes England. The site is allocated for 3,000 homes, with 2,025 expected to be delivered during the plan period.

Key infrastructure requirements for Chalgrove include:

- Two new 2 Form Entry primary schools including early years provision
- a new 8 Form Entry secondary school with sixth form (which will include a re-located Icknield Community College, subject to the approval of the Regional Schools Commissioner)
- Contributions to an off-site SEN school
- Significant contributions towards Watlington and Benson bypasses and the provision of other significant highway infrastructure schemes, including where relevant and justified upgrades to access roads to the M40
- Enhancements to encourage sustainable travel
- New police 'touchdown facility'
- New GP surgery
- Contribution towards leisure facilities
- Provision of green infrastructure and open space
- Sufficient upgrades to the sewage, water, gas and electricity networks

The full infrastructure schedule with further detail for Chalgrove can be found in Appendix 2.2.

Other mitigation measures may be required as identified through an agreed transport assessment.

5.3 Land adjacent to Culham Science Centre

Culham Science Centre (CSC) is owned by the United Kingdom Atomic Energy Authority (UKAEA) and is located within the Science Vale area. The site hosts the Culham Centre for Fusion Energy which includes the Joint European Torus (JET) project. It is the UK centre for fusion research and technology and is of international importance. Land is identified adjacent to the Science Centre for delivery of 3,500 dwellings, with 1,850 homes expected to be delivered during the plan period. It will require amendments to the Green Belt Boundary.

Key infrastructure requirements for Culham include:

- Two new 2 Form Entry primary schools including early years provision
- A new 8 Form Entry secondary school with sixth form
- Contributions to an off-site SEN school
- Significant contributions towards Culham-Didcot Thames River Crossing, Clifton Hampden bypass and the upgrading of the A4074/B4015 Golden Balls junction
- Enhancements to encourage sustainable travel
- New police 'touchdown facility'

- New GP surgery
- Contribution towards leisure facilities
- Provision of green infrastructure and open space
- Sufficient upgrades to the sewage, water, gas and electricity networks

The full infrastructure schedule with further detail for Culham can be found in Appendix 2.3.

Other mitigation measures may be required as identified through an agreed transport assessment.

5.4 Grenoble Road, south of Oxford

Land to the south of Grenoble Road is adjacent to the south of Oxford City. Forming an urban extension to the southern edge of Oxford, it will promote a sustainable form of development that will link with proposed new sustainable transport connections, including into Oxford City. The site will deliver 3,000 dwellings in total, with 1,700 expected to be delivered during the plan period. It will require amendments to the Green Belt Boundary.

Key infrastructure requirements for Grenoble Road include:

- Two new 2 Form Entry primary schools, or one new 3 Form Entry primary school, including early years provision, depending on the estimated population generation. A second primary school site of 2.22ha to be protected until population generation is known.
- A new 8 Form Entry secondary school with sixth form
- Contributions to an off-site SEN school
- Significant contribution towards the upgrading of the A4074/B4015 Golden Balls junction
- Provision of the proposed Sandford Park and Ride
- Enhancements to encourage sustainable travel
- Contribution towards GP provision
- Contribution towards leisure facilities
- Provision of green infrastructure and open space
- Sufficient upgrades to the sewage, water, gas and electricity networks

The full infrastructure schedule with further detail for Grenoble Road can be found in Appendix 2.4.

Other mitigation measures may be required as identified through an agreed transport assessment.

5.5 Land north of Bayswater Brook

Land north of Bayswater Brook directly adjoins the eastern boundary of Oxford City. It is expected to deliver 1,100 dwellings, all within the plan period. It will require amendments to the Green Belt Boundary.

Key infrastructure requirements for Land north of Bayswater Brook include:

- One 2 Form Entry primary school including early years provision, or a smaller school with expansion of an existing nearby school
- Contribution towards an off-site secondary school
- Contribution towards an off-site SEN school
- Highway infrastructure works
- Enhancements to encourage sustainable travel, including provision of a pedestrian/cycle bridge over the A40
- Contribution towards GP provision
- Contribution towards leisure facilities
- Provision of green infrastructure and open space
- Sufficient upgrades to the sewage, water, gas and electricity networks

The full infrastructure schedule with further detail for Land north of Bayswater Brook can be found in Appendix 2.5.

Other mitigation measures may be required as identified through an agreed transport assessment.

5.6 Northfield, southeast of Oxford

The site at Northfield is located on the edge of Oxford City's administrative boundary. The site relates well with the strategic allocation at Grenoble Road and an urban extension on the southern edge of Oxford will promote a sustainable form of development, including enabling links with sustainable transport, with all 1,800 dwellings expected to be delivered within the plan period. It will require amendments to the Green Belt Boundary.

Key infrastructure requirements for Northfield include:

- One 3 Form Entry primary school including early years provision
- Contribution towards an off-site secondary school
- Contribution to an off-site SEN school
- Contribution towards the upgrading of the A4074 Golden Balls junction and other highway infrastructure works
- Enhancements to encourage sustainable travel, including walking and cycling improvements on the B480 corridor
- Contribution towards GP provision
- Contribution towards leisure facilities

- Provision of green infrastructure and open space
- Sufficient upgrades to the sewage, water, gas and electricity networks

The full infrastructure schedule with further detail for Northfield can be found in Appendix 2.6.

Other mitigation measures may be required as identified through an agreed transport assessment.

5.7 Wheatley Campus

Oxford Brookes University intends to relocate its existing uses at the Wheatley Campus to its Headington Campus in Oxford City, which would leave a vacant site in the Green Belt; the eastern part having been previously developed and the western part characterised as open and undeveloped. There is some scope for residential development on the eastern part of the site. The Local Plan proposes to remove Wheatley Campus from the Green Belt and allocate the site for the delivery of at least 300 homes within the plan period.

Key infrastructure requirements for Wheatley include:

- Improvements to the Holloway Road A40 overbridge
- Enhancements to encourage sustainable travel
- Expansion / reconfiguration of Morland House Surgery
- Contribution towards leisure facilities
- Provision of green infrastructure and open space

The infrastructure schedule for Wheatley can be found in Appendix 2.7. At the time of writing the site had submitted a planning application for 500 homes, which had been refused at planning committee on 28/11/2108. As part of the planning application, infrastructure requirements had been discussed in some detail with Oxfordshire County Council and others, and the infrastructure schedule in Appendix 2.7 reflects these more detailed negotiations.

6. Didcot Infrastructure Requirements

For many types of infrastructure it is appropriate to consider the cross-boundary implications of growth and the need to coordinate infrastructure provision. This is particularly the case in relation to Didcot Garden Town, with the Vale of White Horse District Council.

In December 2015 the Government announced that Didcot would become a Garden Town delivering 15,050 homes and 20,000 high-tech jobs in the greater Didcot area. The Local Plan includes a policy to support the Garden Town, ensuring that proposals for development within the Didcot Garden Town Delivery Plan (October 2017) [17] and its masterplan area will demonstrate a positive contribution to the achievement of the Didcot Garden Town Principles.

To help bring the masterplan forward there will be a need to develop and deliver key infrastructure, which will help unlock new housing and employment areas. The district is working closely with the County Council on these matters and in January 2019 a Housing Infrastructure Fund bid forfunding towards early delivery of major transport infrastructure was submitted . In March 2019, central government announced that this bid had been successful, with funding secured towards delivery of a new road crossing of the Thames between Culham and Didcot, capacity enhancements to the A4130, and a new 'Science Bridge' improving access to growing areas of Didcot. [18]This funding will be complemented by developer funding secured from associated housing development in the area to enable these schemes to be delivered.

The 2034 Final Publication Version 2 of the Local Plan allocates 6,503 houses at Didcot, some of which are carried forward from the Local Plan 2011, some are sites carried forward from the Core Strategy and some are new allocations in this Local Plan. All are expected to be delivered during the plan period.

An infrastructure schedule for Didcot is included in Appendix 2.8, which outlines specific known infrastructure requirements for certain sites at the time of writing. All sites will also be required to deliver infrastructure in line with the standards set out in the District-wide infrastructure schedule (Appendix 2.9).

[17] http://www.southoxon.gov.uk/ccm/support/dynamic_serve.jsp?ID=784128172&CODE=4A27B0AFD8650BB995CB689561BB2490

[18] https://www.oxfordshiregrowthboard.org/didcot-garden-town-oxfordshire-county-council-secures-218m-for-major-transport-improvements/

7. District-wide Requirements

Infrastructure for new development in the rest of the district has in many cases already been set down and agreed as part of a planning application process, or as part of Neighbourhood Plans.

However, it is important to note that the South Oxfordshire Local Plan 2034 Final Publication Version 2 only includes targets for certain Neighbourhood Plan areas, and the infrastructure associated with these plans should be reviewed as part of the development or review process to reflect the proposed sites, and in line with national guidance.[19]

Appendix 2.9 includes an infrastructure schedule which outlines infrastructure requirements that would apply to any proposed development site. It also includes infrastructure which would serve more than one development.

[19] National Planning Policy Guidance, Paragraph: 045 Reference ID: 41-045-20140306 and Paragraph: 046 Reference ID: 41-046-20140306 https://www.gov.uk/guidance/plan-making

8. Funding and Delivery

In line with policies in the Local Plan, developers will be expected to contribute to or deliver infrastructure necessary to support their sites. The way they do this will be informed by the updated Local Plan viability report, and then the planned Community Infrastructure Levy (CIL) Charging Schedule update, which is expected to follow closely behind the timetable of the main Local Plan[20].

At present, and based on the current viability evidence, it is expected that a significant element of the infrastructure costs associated with the proposed strategic sites will be funded through S106. However, this will need to be informed by further viability work associated with the planned update to the CIL Charging Schedule.

When seeking funds from these sites through S106, the relevant CIL tests will need to be considered, namely that any funds sought are:

- necessary to make the development acceptable in planning terms
- directly related to the development
- fairly and reasonably related in scale and kind to the development[21]

In other areas, such as where Neighbourhood Plans are developed, and where smaller sites come forward, it is expected that funds will be secured for infrastructure through the Community Infrastructure Levy in line with the latest Charging Schedule. This will be spent on infrastructure in line with the district council spending strategy, with infrastructure providers given over funds in line with identified infrastructure priorities. Where Neighbourhood Plans are in place 25% of any funds will be transferred to the local area to enable them to be spent on local priorities, expected to be those identified as needed to support development within the Neighbourhood Plans.

Given the complexity of planning for strategic infrastructure which has wider benefits in the sub-region and site by site viability considerations, it is expected that other wider funding streams will contribute towards certain infrastructure identified as required to support the cumulative impact of growth. At present, the following likely funding sources have been identified;

- Oxfordshire Growth Deal funds
- Didcot Enterprise Zone business rate retention
- Didcot Garden Town funds, particularly the secured Housing Infrastructure Fund monies
- Private sector investment- e.g. in provision of strategic water resources

[20] http://www.southoxon.gov.uk/services-and-advice/planning-and-building/planning-policy/our-development-plan/our-timetable

[21] National Planning Policy Framework (2018), paragraph 204: https://www.gov.uk/government/publications/national-planning-policy-framework--2

In addition, it is expected that other funding streams will come forward within the plan period that will contribute towards delivery of strategic infrastructure, which is not able to be fully funded by development sites.

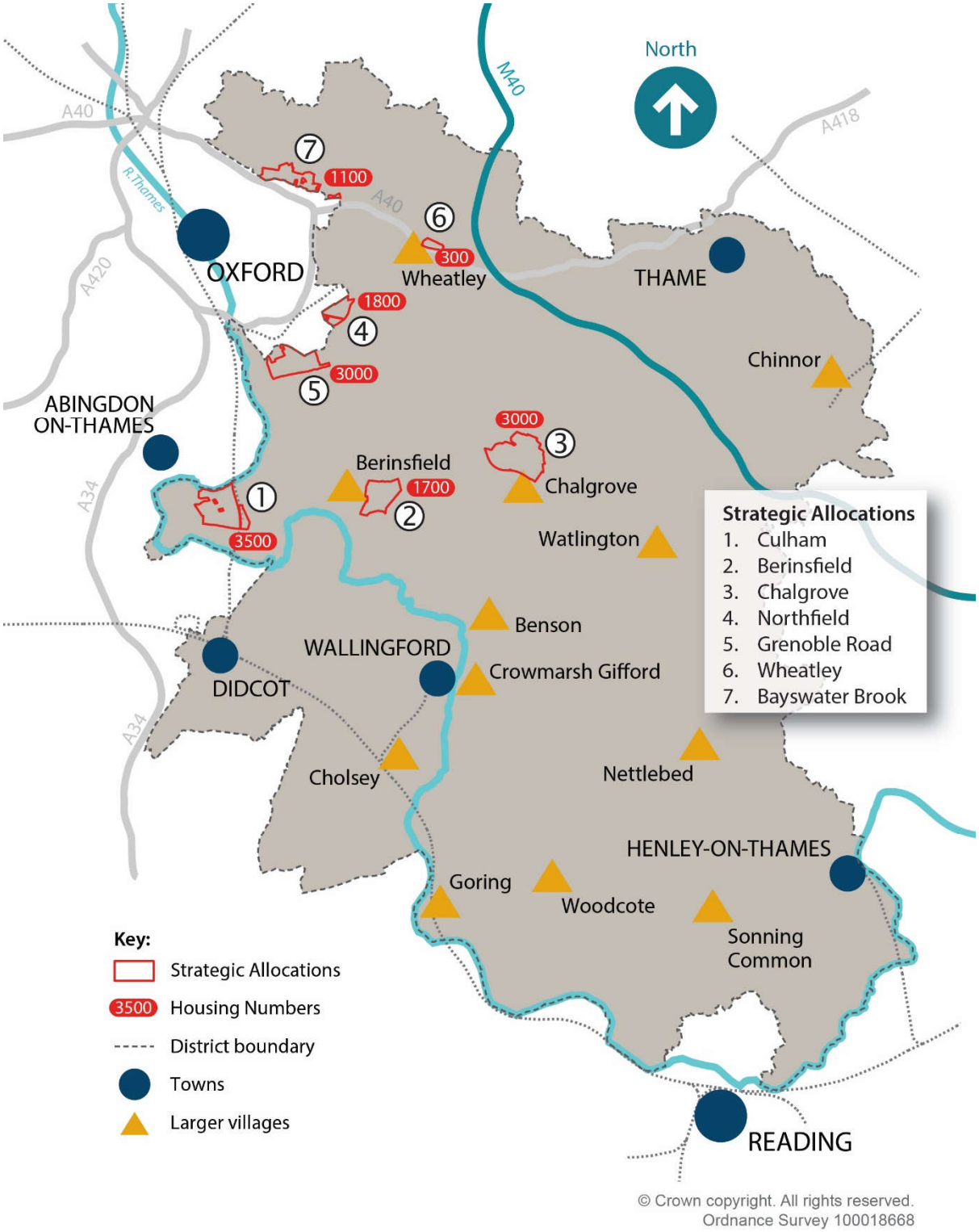
9. Conclusion

An IDP is a 'live' document and as different infrastructure providers respond to their own unique challenges, the information that they provide will naturally date and alter over time, reflecting changing needs. The information contained within this IDP should be viewed as indicative rather than prescriptive. As such the requirements identified at the time of writing will naturally evolve, and it is planned that that IDP will be updated on a periodic basis to reflect changing circumstances.

Over time there may be a number of reasons why the findings of the IDP may change, for example:

- New sources of data and information
- Changes in current service provision
- Updated related evidence base documents
- Progression of infrastructure interventions, providing more certainty arounds costs and phasing
- New delivery partners and funding sources
- Changes in line with national or local policy

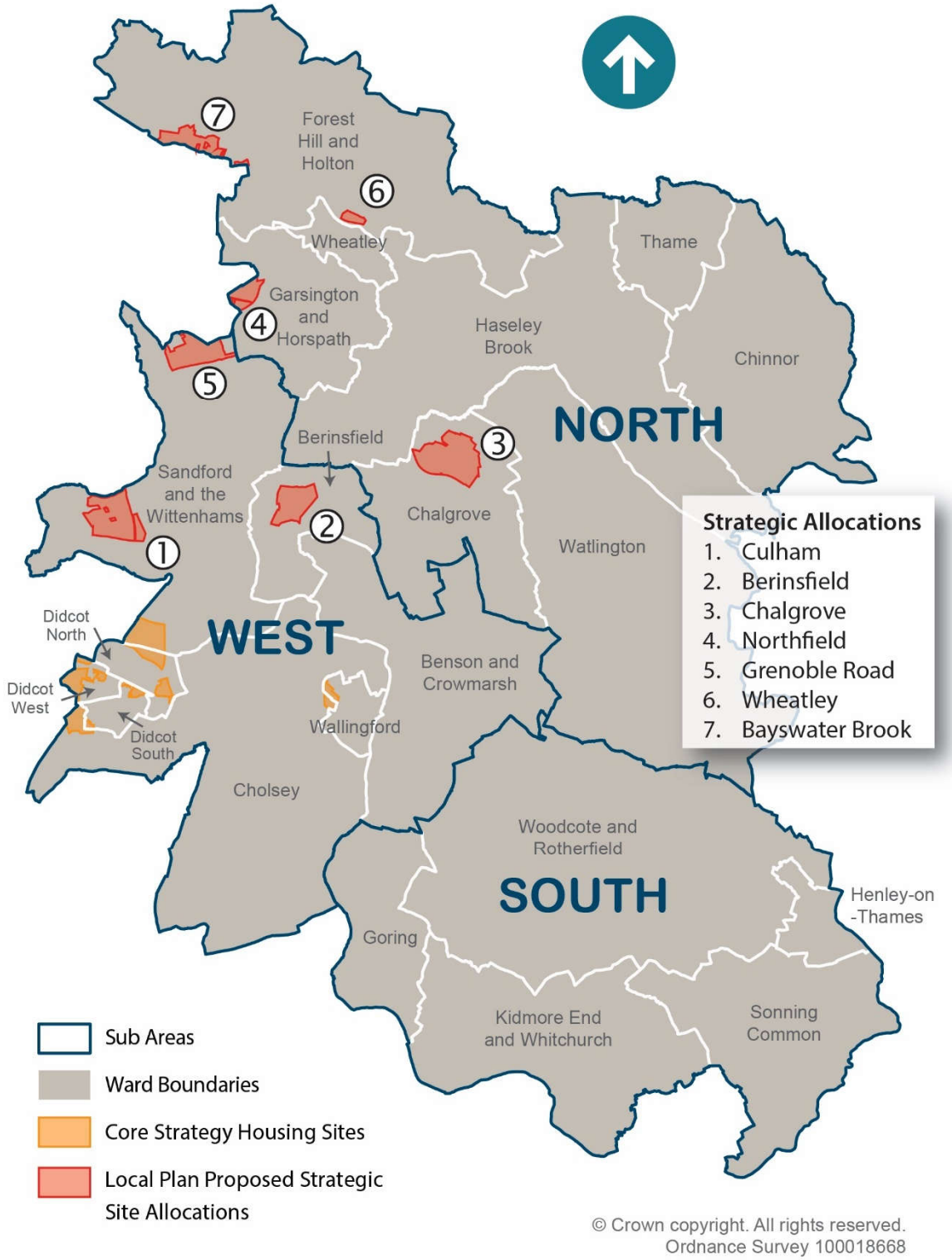
Appendix 1.1: Location of Proposed Strategic Allocations



Appendix 1.2: Trajectories for Strategic Allocations

	Total Size	In plan period	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	Beyond 2033/34
Berinsfield	1700	1600	0	0	0	0	0	100	150	150	150	150	150	150	150	150	150	150	100
Chalgrove	3000	2025	0	0	0	0	0	0	0	0	200	150	200	450	200	250	275	300	975
Culham	3500	1850	0	0	0	0	0	0	0	150	200	200	200	200	200	250	250	200	1650
Grenoble Road	3000	1700	0	0	0	0	0	0	50	100	150	200	200	200	200	200	200	200	1300
Northfield	1800	1800	0	0	0	0	0	0	60	180	200	200	200	200	200	200	200	160	0
North of Bayswater Brook	1100	1100	0	0	0	0	0	0	50	75	100	150	150	150	150	150	125	0	0
Wheatley	300	300	0	0	70	70	70	70	20	0	0	0	0	0	0	0	0	0	0

Appendix 1.3: South Oxfordshire Leisure Study Sub-Area Map



Appendix 2.1 – Infrastructure Schedule: Berinsfield

1,700 dwellings (1,600 expected in plan period)

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
BER01	Community Facilities	New premises for Berinsfield Children's Centre	OCC / SODC / Developer	Developer Contributions (combination of CIL & S106)	TBC	Cost to be confirmed following further more detailed work
BER02	Community Facilities	New premises for the Adult Learning Centre	OCC / SODC / Developer	Developer Contributions (combination of CIL & S106)	TBC	Cost to be confirmed following further more detailed work
BER03	Community Facilities	'Community Hub' building – a flexible community space that enables the co-location of a range of different users and groups	SODC/ Developer	Developer Contributions (combination of CIL & S106)	TBC	Cost to be confirmed following further more detailed work
BER04	Community Facilities	Library provision	OCC / Developer	Developer Contributions (combination of CIL & S106)	TBC	Cost to be confirmed following further more detailed work
BER05	Community Facilities	Recycling and waste	SODC/ Developer	Developer Contributions	£289,000	As set out in SODC S106 financial contributions and fees Schedule.
BER06	Community Facilities	Street naming and numbering	SODC/ Developer	Developer Contributions	£22,780	As set out in SODC S106 financial contributions and fees Schedule.
BER07	Community Facilities	Public Art	SODC/ Developer	Developer Contributions	£510,000	As set out in SODC S106 financial contributions and fees Schedule.
BER08	Community Facilities	Community Hall	SODC/ Developer	Developer Contributions	£1,917,042	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings
BER09	Health	New and expanded premises for a health centre	NHS England / CCG / Developer	Developer Contributions (combination of CIL & S106)	£1,468,800	Cost derived in consultation with the Oxfordshire Clinical Commissioning Group.
BER10	Open Space	Parks and gardens and amenity greenspace	Developer	Developer Contributions	£1,449,377	Costs based on Open Spaces Study standards (January 2017)
BER11	Open Space	Allotments	Developer / Parish Council	Developer Contributions	£51,062	Costs based on Open Spaces Study standards (January 2017)

BER12	Open Space	Children's playspace	Developer	Developer Contributions	£485,544	Costs based on Open Spaces Study standards (January 2017)
BER13	Sports and Leisure	Sports Facilities	SODC/ Developer	Developer Contributions	Up to £4,946,591	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
BER14	Sports and Leisure	Playing Pitches	SODC/ Developer	Developer Contributions	Up to £4,307,096	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
BER15	Sports and Leisure	Local Leisure Facilities	SODC/ Developer	Developer Contributions	Up to £343,307	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
BER16	Education	Sufficient primary education provision to meet the needs of the local population, through a combination of new school(s) and / or expansion of Abbey Woods Primary School (possibly through relocation). Two sites required to be protected: 1 x 3.01ha and 1 x 2.22ha.	OCC / Developer	OCC / Developer Contributions (combination of CIL & S106)	£14,000,000 (based on a 3 Form Entry school). An additional amount will be required for a relocated or improved Abbey Woods Academy.	Cost identified by OCC. This is an approximate cost. Sufficient land will be required in order to deliver primary school provision on-site. The relationship between the new school and the existing Abbey Woods Academy to be further considered.
BER17	Education	Off-site contributions to secondary (on Culham site)	OCC / Developer	OCC / Developer Contributions	£15,300,000	Cost identified by OCC. 33% share of £42m build cost of school on Culham site Also 33% share of agricultural value of land. Assumed @ £375k/ha = £1.3mn
BER18	Education	Off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	£900,000	Cost identified by OCC.
BER19	Utilities	Strategic water supply upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the water supply upgrades that may be needed.
BER20	Utilities	Wastewater treatment upgrades, including to the Culham WwTW	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater treatment upgrades that may be needed.

BER21	Utilities	Wastewater / Sewerage System Network upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater network upgrades that may be needed.
BER22	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator
BER23	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
BER24	Transport	Bus service provision	OCC / Operators	Developer Contributions	£2,880,000	Cost identified by OCC based on pump priming two buses on a service Abingdon-Culham-Berinsfield and two buses on a service Berinsfield-Cowley.
BER25	Transport	New access on to A4074	Developer / OCC	Developer Contributions	TBC	Exact location of additional access to be confirmed following review of north and south options. Land adjoining the allocation will be required.
BER26	Transport	A4074/A415 (H Café) junction upgrade	Developer / OCC	Developer Contributions	£3,500,000	High level estimate based on discussions with OCC
BER27	Transport	Cycle route improvements - Berinsfield to Culham	OCC / Developer	Developer Contributions	£2,000,000	High level estimate based on discussions with OCC
BER28	Transport	Any additional improvement to highways infrastructure required to bring forward the strategic development	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	TBC	This will include, but is not limited to, significant contributions towards the upgrading of the A4074 Golden Balls junction, Culham-Didcot Thames River Crossing and Clifton Hampden bypass. Cost to be confirmed following further more detailed work and in discussion with OCC and SODC
BER29	Transport	Any additional sustainable transport upgrades / enhancement (including for bus travel, walking and cycling) required to bring forward the strategic development	TBC	Operators / OCC / Network Rail / DfT / Developer Contributions	TBC	This will include, but is not limited to, significant improvements to the cycle route between Berinsfield and Culham, and a new cycle route between Berinsfield and Oxford. Cost to be confirmed following further more detailed work and in discussion with OCC and SODC.
BER30	Transport	Bus stops / rights of way / Travel Plan monitoring	OCC / Developer	Developer Contributions	£340,000	Cost provided by OCC

BER31	Other	Contributions towards other county infrastructure	OCC / Developer	Developer contributions	TBC	This could include, but is not limited to, fire and rescue, adult social care, extra care housing and public health

Appendix 2.2 – Infrastructure Schedule: Chalgrove Airfield

3,000 dwellings (2,025 expected in plan period)

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
CHA01	Emergency Services	New police 'touchdown facility'	TVP / Private Developer	Developer Contributions (S106)	£1,000,000	Detail to be confirmed following further review with emergency services.
CHA02	Community Facilities	Library	OCC / Developer	Developer Contributions	TBC	Cost to be confirmed in consultation with OCC
CHA03	Community Facilities	Recycling and waste	SODC/ Developer	Developer Contributions	£510,000	As set out in SODC S106 financial contributions and fees Schedule.
CHA04	Community Facilities	Street naming and numbering	SODC/ Developer	Developer Contributions	£40,200	As set out in SODC S106 financial contributions and fees Schedule.
CHA05	Community Facilities	Public Art	SODC/ Developer	Developer Contributions	£900,000	As set out in SODC S106 financial contributions and fees Schedule.
CHA06	Community Facilities	Community Hall	SODC/ Developer	Developer Contributions	£3,383,016	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings
CHA07	Health	New GP surgery - approx. 667 sqm GIA.	NHS England / CCG / Developer	Developer Contributions (S106)	£3,000,000	If the strategic allocation of homes goes ahead a new surgery will be funded as part of the development. The CCG has indicated that they will work with the existing facility to help cope with increasing demand until the new facility is being built. Cost based on latest information from developers on cost of providing this facility.
CHA08	Open Space	Parks and gardens and amenity greenspace	Developer	Developer Contributions	£4,454,002	Costs based on Open Spaces Study standards (January 2017)
CHA09	Open Space	Allotments	Developer / Parish Council	Developer Contributions	£83,633	Costs based on Open Spaces Study standards (January 2017)
CHA10	Open Space	Children's playspace	Developer	Developer Contributions	£83,633	Costs based on Open Spaces Study standards (January 2017)
CHA11	Sports and Leisure	Sports Facilities	SODC/ Developer	Developer Contributions	Up to £8,181,052	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.

CHA12	Sports and Leisure	Playing Pitches	SODC/ Developer	Developer Contributions	Up to £6,912,044	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
CHA13	Sports and Leisure	Local Leisure Facilities	SODC/ Developer	Developer Contributions	Up to £605,835	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
CHA14	Education	Two x 2 Form Entry primary schools including early years provision (2.2ha each)	OCC / Developer	OCC / Developer Contributions (combination of CIL & S106)	£20,000,000	Cost identified by OCC. This is an approximate cost for two primary schools. Sufficient land will be required in order to deliver primary school provision on-site.
CHA15	Education	One new 8 Form Entry secondary school with sixth form (10.55ha)	OCC / Developer	OCC / Developer Contribution (combination of CIL & S106)	£22,400,000	Cost identified by OCC based on provision related to the pupil generation of the site, with the remainder of the cost of a secondary school to come from alternative funding given that the proposal involves relocating the existing Icknield Community College onto the site. Sufficient land will be required in order to deliver a secondary school on-site.
CHA16	Education	Off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	£1,500,000	Cost identified by OCC.
CHA17	Utilities	Strategic water supply upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the water supply upgrades that may be needed.
CHA18	Utilities	Wastewater treatment upgrades, including to the Chalgrove WwTW	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater treatment upgrades that may be needed.
CHA19	Utilities	Wastewater / Sewerage System Network upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater network upgrades that may be needed.
CHA20	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator

CHA21	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
CHA22	Flood Risk	Chalgrove Flood Risk Management Scheme	Environment Agency / OCC	Developer Contributions (CIL)	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017. Further more detailed work will determine cost details etc.
CH23	Flood Risk	Mill Lane Chalgrove Flood Attenuation Scheme	Environment Agency / SODC	SODC / Developer Contributions (CIL)	£40,000	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017
CHA24	Transport	Transport infrastructure, including public transport infrastructure	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£80,000,000 - £100,000,000	Costs based on latest discussions on providing required infrastructure. This may be subject to change following further negotiations with OCC. This will include, but is not limited to, Stadhampton bypass, Chiselhampton bypass, Cuxham Bypass, Hollandtide Lane, Little Milton, Shirburn, Oxford Gateway, local village improvements and walking & cycling improvements
CH25	Transport	Potential mitigation of impacts on M40 accesses	Highways England / Developer	Developer Contributions	TBC	Mitigation may be required following more detailed assessment of the impact on M40 junctions
CHA26	Transport	Bus service provision	OCC / Operators	Developer Contributions	£7,920,000	Cost identified by OCC based on pump priming eight buses on a service Chalgrove-Oxford and three buses on a service Chalgrove-Science Vale
CHA27	Transport	Any additional improvement to highways infrastructure required to bring forward the strategic development	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	TBC	This will include, but is not limited to, significant contributions towards the upgrading of the A4074 Golden Balls junction, and Watlington and Benson bypasses. To be confirmed following further more detailed work and in discussion with OCC and SODC
CHA28	Transport	Any additional sustainable transport upgrades / enhancement (including for bus travel, walking and cycling) required to bring forward the strategic development	TBC	Operators / OCC / Network Rail / DfT / Developer Contributions	TBC	To be confirmed following further more detailed work and in discussion with OCC and SODC.
CHA29	Transport	Bus stops / rights of way / Travel Plan monitoring	OCC / Developer	Developer Contributions	£600,000	Cost provided by OCC
CHA30	Other	Contributions towards other county infrastructure	OCC / Developer	Developer contributions	TBC	This could include, but is not limited to, fire and rescue, adult social care, extra care housing and public health

Appendix 2.3 – Infrastructure Schedule: Land adjacent to Culham Science Centre

3,500 dwellings (1,850 expected in plan period)

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
CUL01	Emergency Services	New police 'touchdown facility'	TVP / Developer	Developer Contributions (S106)	TBC	Detail to be confirmed following further review with emergency services.
CUL02	Community Facilities	Library	OCC / Developer	Developer Contributions	TBC	Cost to be confirmed in consultation with OCC
CUL03	Community Facilities	Recycling and waste	SODC/ Developer	Developer Contributions	£595,000	As set out in SODC S106 financial contributions and fees Schedule.
CUL04	Community Facilities	Street naming and numbering	SODC/ Developer	Developer Contributions	£46,900	As set out in SODC S106 financial contributions and fees Schedule.
CUL05	Community Facilities	Public Art	SODC/ Developer	Developer Contributions	£1,050,000	As set out in SODC S106 financial contributions and fees Schedule.
CUL06	Community Facilities	Community Hall	SODC/ Developer	Developer Contributions	£3,946,852	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings
CUL07	Health	New GP surgery - approx. 833sqm GIA.	NHS England / CCG / Developer	Developer Contributions (S106)	£3,024,000	Requirement takes into account existing capacity at Clifton Hampton Surgery. The CCG has indicated that a new surgery is needed, with the option of merging services with the current Clifton Hampden surgery and an expansion of services at Berinsfield to meet demand. Cost derived in consultation with the Oxfordshire Clinical Commissioning Group.
CUL08	Open Space	Parks and gardens and amenity greenspace	Developer	Developer Contributions	£4,370,725	Costs based on Open Spaces Study standards (January 2017)
CUL09	Open Space	Allotments	Developer / Parish Council	Developer Contributions	£71,562	Costs based on Open Spaces Study standards (January 2017)
CUL10	Open Space	Children's playspace	Developer	Developer Contributions	£998,614	Costs based on Open Spaces Study standards (January 2017)

CUL11	Sports and Leisure	Sports Facilities	SODC/ Developer	Developer Contributions	Up to £10,184,158	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
CUL12	Sports and Leisure	Playing Pitches	SODC/ Developer	Developer Contributions	Up to £7,913,947	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
CUL13	Sports and Leisure	Local Leisure Facilities	SODC/ Developer	Developer Contributions	Up to £706,808	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
CUL14	Education	Two x 2 Form Entry primary schools, including early years provision (2.2ha each)	OCC / Developer	OCC / Developer contribution (combination of CIL & S106)	£20,000,000	Cost identified by OCC. This is an approximate cost for two primary schools. Sufficient land will be required in order to deliver primary school provision on-site.
CUL15	Education	One new 8 Form Entry secondary school with sixth form (10.55ha)	OCC / Developer	OCC / Developer contribution (combination of CIL & S106)	£26,700,000	Cost identified by OCC based on provision related to the pupil generation of the site, with the remainder of the cost of a secondary school to come from the development site at Berinsfield. Based on total cost of £42mn and assumption that 5200 homes contribute, so 66% share of build cost. Sufficient land will be required in order to deliver a secondary school on-site.
CUL16	Education	Off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	£1,500,000	Cost identified by OCC.
CUL17	Utilities	Strategic water supply upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the water supply upgrades that may be needed.
CUL18	Utilities	Wastewater treatment upgrades, including to the Culham WwTW	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater treatment upgrades that may be needed.

CUL19	Utilities	Wastewater / Sewerage System Network upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater network upgrades that may be needed.
CUL20	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator
CUL21	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
CUL22	Transport	Culham Railway Station Development	DfT/ Network Rail / Developer	Developer Contributions (S106) / Grant Funding	£13,000,000	This will include contributions to Culham station improvements including longer platforms, public realm and new station building; and potentially car parking. Cost from OXIS 2017.
CUL23	Transport	Culham-Abingdon cycle bridge	OCC / Developer	Developer Contributions	£6,580,000	Cost identified by OCC from Science Vale cycle route feasibility work
CUL24	Transport	Ped / cycle improvements, including linking with the rail station	OCC / Developer / Network Rail	Developer Contributions	£5,000,000	Cost estimate identified by OCC
CUL25	Transport	Bus service provision	OCC / Operators	Developer Contributions	£3,880,000	Cost identified by OCC based on pump priming three buses on a service Science Vale – Oxford Eastern Arc; one bus on service Abingdon – Culham – Berinsfield; and £1m to improve connections to the railway station
CUL26	Transport	Increased rail service frequency at Culham	DfT/ Network Rail/Operators	DfT / Network Rail	TBC	Cost to be confirmed following further more detailed work
CUL27	Transport	Any additional improvement to highways infrastructure required to bring forward the strategic development	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	TBC	This will include, but is not limited to, new junctions on the A405 and significant contributions towards Culham-Didcot Thames River Crossing, Clifton Hampden bypass and the upgrading of the A4074 Golden Balls junction. Cost to be confirmed following further more detailed work and in discussion with OCC and SODC
CUL28	Transport	Any additional sustainable transport upgrades / enhancement (including for bus travel, walking and cycling) required to bring forward the strategic development	TBC	Operators / OCC / Network Rail / DfT / Developer Contributions	TBC	Cost to be confirmed following further more detailed work and in discussion with OCC and SODC.
CUL29	Transport	Bus stops / rights of way / Travel Plan monitoring	OCC / Developer	Developer Contributions	£700,000	Cost provided by OCC
CUL30	Other	Contributions towards other county infrastructure	OCC / Developer	Developer contributions	TBC	This could include, but is not limited to, fire and rescue, adult social care, extra care housing and public health

Appendix 2.4 – Infrastructure Schedule: Grenoble Road

3,000 dwellings (1,700 expected in plan period)

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
GRE01	Community Facilities	Library	OCC / Developer	Developer Contributions	TBC	Cost to be confirmed in consultation with OCC
GRE02	Community Facilities	Recycling and waste	SODC/ Developer	Developer Contributions	£510,000	As set out in SODC S106 financial contributions and fees Schedule.
GRE03	Community Facilities	Street naming and numbering	SODC/ Developer	Developer Contributions	£40,200	As set out in SODC S106 financial contributions and fees Schedule.
GRE04	Community Facilities	Public Art	SODC/ Developer	Developer Contributions	£900,000	As set out in SODC S106 financial contributions and fees Schedule.
GRE05	Community Facilities	Community Hall	SODC/ Developer	Developer Contributions	£3,383,016	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings
GRE06	Health	Contribution to GP provision	NHS England / CCG / Developer	Developer Contributions	£2,592,000	Cost derived in consultation with the Oxfordshire Clinical Commissioning Group.
GRE07	Open Space	Parks and gardens and amenity greenspace	Developer	Developer Contributions	£3,586,020	Costs based on Open Spaces Study standards (January 2017)
GRE08	Open Space	Allotments	Developer / Parish Council	Developer Contributions	£78,360	Costs based on Open Spaces Study standards (January 2017)
GRE09	Open Space	Children's playspace	Developer	Developer Contributions	£598,810	Costs based on Open Spaces Study standards (January 2017)
GRE10	Sports and Leisure	Sports Facilities	SODC/ Developer	Developer Contributions	Up to £8,729,278	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
GRE11	Sports and Leisure	Playing Pitches	SODC/ Developer	Developer Contributions	Up to £6,912,044	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
GRE12	Sports and Leisure	Local Leisure Facilities	SODC/ Developer	Developer Contributions	Up to £605,835	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
GRE13	Education	2 x 2 Form Entry primary schools (2.2ha each), or 1 x 3 Form Entry primary school (3.1 ha) including early years provision, depending on the estimated population generation.	OCC / Developer	OCC / Developer Contributions (combination of CIL & S106)	£20,000,000	Cost identified by OCC. This is an approximate cost for two primary schools. Sufficient land will be required in order to deliver primary school provision on-site.

GRE14	Education	8 Form Entry Secondary School and sixth form (10.55ha)	OCC / Developer	OCC / Developer Contributions (combination of CIL & S106)	£22,400,000	Cost identified by OCC based on provision related to the pupil generation of the site, with the remainder of the cost of a secondary school (estimated cost of £42 million) to come from the development of other sites. Sufficient land will be required in order to deliver a secondary school on-site.
GRE15	Education	Off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	£1,500,000	Cost identified by OCC.
GRE16	Utilities	Strategic water supply upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the water supply upgrades that may be needed.
GRE17	Utilities	Wastewater treatment upgrades (including odour mitigation), including to the Oxford WwTW	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater treatment upgrades that may be needed.
GRE18	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator
GRE19	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
GRE20	Transport	Bus service provision	OCC / Operators	Developer Contributions	£3,600,000	Cost identified by OCC based on pump priming three buses on a service Science Vale – Oxford Eastern Arc; and two buses on service from the site – Oxford
GRE21	Transport	Highways infrastructure	OCC / Developer	Developer Contributions	£10,500,000 - £15,000,000	Will be updated as more detail comes forward.
GRE22	Transport	Provision of the proposed Sandford Park and Ride	OCC / Developer	TBC	TBC	Will be updated as more detail comes forward.
GRE23	Transport	Any additional improvement to highways infrastructure required to bring forward the strategic development	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	TBC	This will include, but is not limited to, a significant contribution towards the upgrading of the A4074 Golden Balls junction and upgrades to the existing junctions on the Oxford Eastern bypass (A4142), including Heyford Hill and Cowley junctions. Cost to be confirmed following further more detailed work and in discussion with OCC and SODC
GRE24	Transport	Any additional sustainable transport upgrades / enhancement (including for bus travel, walking and cycling) required to bring forward the strategic development	TBC	Operators / OCC / Network Rail / DfT / Developer Contributions	TBC	This will include, but is not limited to, cycling and walking infrastructure ensuring the site is well connected to Oxford City and surrounding villages, including a new cycle route between Berinsfield and Oxford. Cost to be confirmed following further more detailed work and in discussion with OCC and SODC.
GRE25	Transport	Bus stops / rights of way / Travel Plan monitoring	OCC / Developer	Developer Contributions	£600,000	Cost provided by OCC
GRE26	Other	Contributions towards other county infrastructure	OCC / Developer	Developer contributions	TBC	This could include, but is not limited to, fire and rescue, adult social care, extra care housing and public health

Appendix 2.5 – Infrastructure Schedule: Land North of Bayswater Brook

1,100 dwellings (all expected in plan period)

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
BAY01	Community Facilities	Libraries	OCC	Developer Contributions	TBC	Cost to be confirmed in consultation with OCC
BAY02	Community Facilities	Recycling and waste	SODC/ Developer	Developer Contributions	£187,000	As set out in SODC S106 financial contributions and fees Schedule.
BAY03	Community Facilities	Street naming and numbering	SODC/ Developer	Developer Contributions	£14,740	As set out in SODC S106 financial contributions and fees Schedule.
BAY04	Community Facilities	Public Art	SODC/ Developer	Developer Contributions	£330,000	As set out in SODC S106 financial contributions and fees Schedule.
BAY05	Community Facilities	Community Hall	SODC/ Developer	Developer Contributions	£1,240,439	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings
BAY06	Health	Contribution to GP provision	NHS England / CCG / Developer	Developer Contributions	£950,400	Cost derived in consultation with the Oxfordshire Clinical Commissioning Group.
BAY07	Open Space	Parks and gardens and amenity greenspace	Developer	Developer Contributions	£1,314,874	Costs based on Open Spaces Study standards (January 2017)
BAY08	Open Space	Allotments	Developer / Parish Council	Developer Contributions	£28,732	Costs based on Open Spaces Study standards (January 2017)
BAY09	Open Space	Children's play space	Developer	Developer Contributions	£219,564	Costs based on Open Spaces Study standards (January 2017)
BAY10	Sports and Leisure	Sports Facilities	SODC/ Developer	Developer Contributions	Up to £2,999,719	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
BAY11	Sports and Leisure	Playing Pitches	SODC/ Developer	Developer Contributions	Up to £3,104,812	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
BAY12	Sports and Leisure	Local Leisure Facilities	SODC/ Developer	Developer Contributions	Up to £222,140	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.

BAY13	Education	1 x 2 Form Entry Primary School including early years provision (2.2 ha), or a smaller school with expansion of an existing nearby school	OCC / Developer	OCC / Developer Contributions (combination of CIL & S106)	£10,000,000	Cost identified by OCC. This is an approximate cost for one primary school. Sufficient land will be required in order to deliver primary school provision on-site.
BAY14	Education	Off-site contributions to Secondary (on Grenoble Road or Begbrooke)	OCC / Developer	OCC / Developer Contributions	£11,000,000	Cost identified by OCC based on provision related to the pupil generation of the site. If the school on the Grenoble Road site is not appropriately sized to cater for this as well as other developments, then alternative proposed new secondary schools such as that proposed at Begbroke will be sized to accommodate the need and part of the funds may be used for that school.
BAY15	Education	Off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	£600,000	Cost identified by OCC.
BAY16	Utilities	Strategic water supply upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the water supply upgrades that may be needed.
BAY17	Utilities	Wastewater treatment upgrades, including at Oxford WwTW	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater treatment upgrades that may be needed.
BAY18	Utilities	Wastewater / Sewerage System Network upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater network upgrades that may be needed.
BAY19	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator
BAY20	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
BAY21	Transport	Bus service provision	OCC / Operators	Developer Contributions	£1,400,000 - £2,880,000	Cost identified by OCC based on pump priming two buses on a service Science Vale – Oxford Eastern Arc; and two buses on a service from the site – Oxford.
BAY22	Transport	Strategic highways improvements	OCC / Developer	Developer Contributions	£50,000,000 - £70,000,000	Cost identified by OCC. Requirements are likely to include a new road access between the site and the A40/ B4150/ Marsh Lane junction, and either the A40 between the Thornhill Park and Ride junction and the Church Hill junction for Forest Hill, or significant upgrades to the existing A40 Northern Oxford Bypass road including at the A40/A4142 Headington Roundabout.
BAY23	Transport	Any additional improvement to highways infrastructure required to bring forward the strategic development	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	TBC	Cost to be confirmed following further more detailed work and in discussion with OCC and SODC.
BAY24	Transport	Any additional sustainable transport upgrades / enhancement (including bus travel, walking and cycling) required to bring forward the strategic development	TBC	Operators / OCC / Network Rail / DfT / Developer Contributions	TBC	This will include, but is not limited to, the provision of a pedestrian/cycle bridge over the A40. Costs to be confirmed following further more detailed work and in discussion with OCC and SODC
BAY25	Transport	Bus stops / rights of way / Travel Plan monitoring	OCC / Developer	Developer Contributions	£220,000	Cost provided by OCC
BAY26	Other	Contributions towards other county infrastructure	OCC / Developer	Developer contributions	TBC	This could include, but is not limited to, fire and rescue, adult social care, extra care housing and public health

Appendix 2.6 – Infrastructure Schedule: Northfield

1,800 dwellings (all expected in plan period)

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
NOF01	Community Facilities	Libraries	OCC	Developer Contributions	TBC	Cost to be confirmed in consultation with OCC
NOF02	Community Facilities	Recycling and waste	SODC/ Developer	Developer Contributions	£306,000	As set out in SODC S106 financial contributions and fees Schedule.
NOF03	Community Facilities	Street naming and numbering	SODC/ Developer	Developer Contributions	£24,120	As set out in SODC S106 financial contributions and fees Schedule.
NOF04	Community Facilities	Public Art	SODC/ Developer	Developer Contributions	£540,000	As set out in SODC S106 financial contributions and fees Schedule.
NOF05	Community Facilities	Community Hall	SODC/ Developer	Developer Contributions	£2,029,809	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings
NOF06	Health	Contribution to GP provision	NHS England / CCG / Developer	Developer Contributions	£1,555,200	Cost derived in consultation with the Oxfordshire Clinical Commissioning Group.
NOF07	Open Space	Parks and gardens and amenity greenspace	Developer	Developer Contributions	£2,151,612	Costs based on Open Spaces Study standards (January 2017)
NOF08	Open Space	Allotments	Developer / Parish Council	Developer Contributions	£47,016	Costs based on Open Spaces Study standards (January 2017)
NOF09	Open Space	Children's playspace	Developer	Developer Contributions	£359,286	Costs based on Open Spaces Study standards (January 2017)
NOF10	Sports and Leisure	Sports Facilities	SODC/ Developer	Developer Contributions	Up to £4,908,631	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
NOF11	Sports and Leisure	Playing Pitches	SODC/ Developer	Developer Contributions	Up to £4,507,476	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
NOF12	Sports and Leisure	Local Leisure Facilities	SODC/ Developer	Developer Contributions	Up to £363,501	Cost derived using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings. Provision will be required in line with the latest versions of leisure studies and is therefore subject to change.
NOF13	Education	1 x 3 Form Entry Primary School including early years provision (3.1ha)	OCC / Developer	OCC / Developer Contributions (combination of CIL & S106)	£14,000,000	Cost identified by OCC. This is an approximate cost for one 3FE primary school. Sufficient land will be required in order to deliver primary school provision on-site.

NOF14	Education	Off-site contributions to secondary (on Grenoble Road site)	OCC / Developer	OCC / Developer Contributions	£14,500,000	Cost identified by OCC based on provision related to pupil generation of the site, helping to fund the proposed secondary school on the Grenoble Road site.
NOF15	Education	Off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	£1,000,000	Cost identified by OCC.
NOF16	Utilities	Strategic water supply upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the water supply upgrades that may be needed.
NOF17	Utilities	Wastewater treatment upgrades (including odour mitigation), including to the Oxford WwTW	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater treatment upgrades that may be needed.
NOF18	Utilities	Wastewater / Sewerage System Network upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater network upgrades that may be needed.
NOF19	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator
NOF20	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
NOF21	Transport	Bus service provision	OCC / Operators	Developer Contributions	£2,160,000	Cost identified by OCC based on pump priming two buses on a service Science Vale – Oxford Eastern Arc.
NOF22	Transport	Highways infrastructure	TBC	Developer Contributions	£6,300,000 - £9,000,000	To include, but not limited to contributions towards upgrades to existing junctions on the Oxford Eastern Bypass (A4142), including Cowley Junction.
NOF23	Transport	Any additional improvement to highways infrastructure required to bring forward the strategic development	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	TBC	This may include, but is not limited to, a contribution towards the upgrading of the A4074 Golden Balls junction and upgrades to the existing junctions on the Oxford Eastern bypass (A4142) including Cowley junction. Cost to be confirmed following further more detailed work and in discussion with OCC and SODC.
NOF24	Transport	Any additional sustainable transport upgrades / enhancement (including for bus travel, walking and cycling) required to bring forward the strategic development	TBC	Operators / OCC / Network Rail / DfT / Developer Contributions	TBC	This may include, but is not limited to, provision and contribution to ensure that the site is well connected to Oxford City and appropriate surrounding villages, including walking, cycling and public transport improvements on the B480 corridor. Cost to be confirmed following further more detailed work and in discussion with OCC and SODC.
NOF25	Transport	Bus stops / rights of way / Travel Plan monitoring	OCC / Developer	Developer Contributions	£360,000	Cost provided by OCC
NOF26	Other	Contributions towards other county infrastructure	OCC / Developer	Developer contributions	TBC	This could include, but is not limited to, fire and rescue, adult social care, extra care housing and public health

Appendix 2.7 – Infrastructure Schedule: Wheatley Campus

At least 300 dwellings (all expected in plan period)

Note: At the time of writing this site had submitted a planning application for 500 homes, which was refused at planning committee on 28/11/2018. As part of the planning application, infrastructure requirements had been discussed in some detail with Oxfordshrie County Council and others, and this infrastructure schedule reflects these more detailed negotiations where relevant.

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
WHE01	Community Facilities	Street naming, waste collection and legal agreement monitoring fees	SODC/ Developer	Developer Contributions (S106)	£55,000 - £91,700	Costs based on a range of 300 to 500 homes
WHE02	Community Facilities	Public Art	SODC/ Developer	Developer Contributions (S106)	£90,000 - £150,000	Based on cost of £300 per dwelling (range of 300 to 500 homes)
WHE03	Health	Expansion / reconfiguration of Morland House Surgery (1-2 additional consulting rooms)	NHS England / CCG / Developer	Developer Contributions (CIL / S106)	TBC	The CCG have identified a requirement for an expansion / reconfiguration of existing healthcare facilities. At present the development would generate a CIL contribution towards infrastructure which can be used to fund future health care needs.
WHE04	Sports and Leisure	Leisure contribution	SODC/ Developer	Developer Contributions	Up to £1,935,000	To include bowls lawn, cricket pitch, running route, pavilion, artificial grass pitch and tennis courts. Costs based on detail agreed for planning application at 500 homes. Could be amended if a lower number of homes comes forward.
WHE05	Open Space	Delivery of on-site open space and play provision	SODC/ Developer	Developer Contributions	TBC	On-site delivery of open space and play provision as per policy requirements.
WHE06	Education	Education contribution	OCC / Developer	OCC / Developer Contributions (CIL)	TBC	OCC has stated that school capacity can accommodate around 300-500 new households but there are concerns over development beyond this number. At present the development would generate a CIL contribution towards infrastructure which can be used to fund future education needs.
WHE08	Utilities	Wastewater treatment upgrades, including to the Wheatley WwTW	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater treatment upgrades that may be needed.

WHE09	Utilities	Wastewater / Sewerage System Network upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Further detail on constraints / capacity is set out in the Water Cycle Study Update Report. More detailed modelling and consultation with Thames Water will be required to determine the scale and timing of the wastewater network upgrades that may be needed.
WHE10	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator
WHE11	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
WHE12	Transport	Improvements to walking and cycling provision	OCC / Developer	Developer contributions (S278)	TBC	To include a range of improvements to upgrade pedestrian / cycle access to site. Specifics to be agreed with the County Council, including but not limited to improvements to: walking and cycling provision on A40 overbridge and provision of a zebra crossing to the north of Park Hill/London Road/Holloway Road roundabout; the Park Hill/London Road/Holloway Road roundabout for all modes; pedestrian crossing facility on Church Road to the west of Holloway Road junction; widening of footway on northern side of Littleworth Road; cycling facilities at Holton turn and at western access to site (Holloway Road); improvements to cycleway on northern side of A40; widening of existing footway on Waterperry Road; provision of street lighting along A40 underpass and along the Old London Road (east); new pedestrian crossing on Waterperry Road near junction with Old London Road; new footway along Old London Road between junctions with Waterperry Road and London Road; widening of existing footway on northern side of London Road eastwards of junction with Old London Road; provide appropriate pedestrian crossing facility over London Road; widening of existing footway along northern side of Old London Road from junction with Waterperry Road westwards to junction with London Road; relocation of the zebra crossing on London Road to the west of Anson Close and removal of the informal crossing; other improvements to signage and provision of dropped kerbs where appropriate.
WHE13	Transport	Contribution to Public Transport provision	OCC / Operators	Developer contributions	£720,000	Contribution towards one additional bus in the commercial fleet on an eight-year pump priming basis. Based on detail negotiated for 500 homes. Could be amended if a lower number of homes comes forward on the site.

WHE14	Transport	Travel Plan monitoring	OCC / Developer	Developer contributions	£2,040	Based on figure for 500 homes. Could be amended if a lower number of homes comes forward on the site.

Appendix 2.8 – Infrastructure Schedule: Didcot

Ladygrove East (carried forward from the Local Plan 2011)	642
Didcot North East (carried forward from the Core Strategy)	2030
Great Western Park (carried forward from the Local Plan 2011)	2587
Vauxhall Barracks (carried forward from the Core Strategy)	300
Orchard Centre Phase II (carried forward from Core Strategy)	300
New: Didcot A	270
New: Didcot Gateway	300
New: Hadden Hill	74
TOTAL	**6,503 dwellings (all in plan period)**

Note: This infrastructure schedule outlines specific known infrastructure requirements at the time of writing. All sites will be required to deliver infrastructure in line with the standards set out in the District-wide (Strategic) infrastructure schedule.

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost	Notes
DID01	Community Facilities	Expansion of existing library	OCC	Developer Contributions (S106)	TBC	Detail to be confirmed following further work
DID02	Community Facilities	Ladygrove East: neighbourhood community hub area including a community building	SODC / Developer	Developer Contributions	TBC	
DID03	Health	Expansion of Woodlands Medical Centre - 2 additional consulting rooms	NHS England / CCG / Developer	Developer Contributions (CIL)	£494,640	Expansion of Woodlands Surgery is limited so cannot meet all newly arising demand. Based on conversations with the CCG.
DID04	Health	New GP Surgery at Great Western Park	NHS England / CCG / Developer	Developer Contributions (combination of CIL & S106)	£1,716,813	Reserved matters planning application for new surgery has been submitted by the CCG. Operator of site to be confirmed.
DID05	Open Space	Didcot North East: Green infrastructure corridors	SODC / Developer	Developer Contributions (S106)	See notes	Project has outline planning permission (P15/S2902/O). £555,389 S106 (index linked) secured for scheme.
DID06	Open Space	Dicot North East: Nature park	SODC / Developer	Developer Contributions (S106)	See notes	Project has outline planning permission (P15/S2902/O). £571,553 S106 (index linked) secured for scheme.
DID07	Open Space	Ladygrove East: Network of public open space and public greenspaces (not less than 8 hectares) with largest greenspace comprising a local park not less than 6 hectares) to incorporate a large equipped children's play area for all ages and a separate facility for youth recreation plus leisure running / cycle routes	SODC / Developer	Developer Contributions	TBC	
DID08	Open Space	Ladygrove East: integrated network of green infrastructure the enhancement of ecologically important habitats including wetland, woodland and species rich grassland	SODC / Developer	Developer Contributions	TBC	
DID09	Sports and Leisure	New leisure centre	SODC / Developer	Developer Contributions	TBC	Cost to be confirmed following further more detailed work

DID10	Sports and Leisure	New artificial grass pitch provision	SODC / Developer / OCC	SODC / Developer Contributions (CIL & S106) / Private Sector / Grant Funding	TBC	Costs to be confirmed following further more detailed work
DID11	Sports and Leisure	New grass playing pitch provision	SODC / Developer / OCC	SODC / Developer Contributions (CIL & S106) / Private Sector / Grant Funding	TBC	Costs to be confirmed following further more detailed work
DID12	Education	Didcot North East: Two new 2 Form Entry primary schools including early years provision	OCC / Developer	OCC / Developer Contributions	See notes	Further to outline planning permission (P15/S2902/O), approximately £22m + land in S106 agreement (index linked from 2016) secured towards scheme.
DID13	Education	Didcot North East: One new 8 Form Entry secondary school	OCC / Developer	OCC / Developer Contributions	See notes	Further to outline planning permission (P15/S2902/O), approximately £32m + land in S106 agreement (index linked from 2016) secured towards scheme.
DID14	Education	Didcot North East: off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	TBC	Further to outline planning permission (P15/S2902/O), approximately £500k in S106 agreement (index linked from 2016) secured towards off-site scheme.
DID15	Education	Ladygrove East: off-site contributions to primary provision on Didcot North East	OCC / Developer	OCC / Developer Contributions	£6,200,000	Approximate cost identified by OCC in 2018, subject to amendment and index linking, based on providing additional primary school capacity on the Didcot North East site. Contribution to cost of land will also be required
DID16	Education	Ladygrove East: off-site contributions to secondary provision on Didcot North East	OCC / Developer	OCC / Developer Contributions	£3,700,000	Approximate cost identified by OCC in 2018, subject to amendment and index linking, based on providing additional secondary school capacity on the Didcot North East site. Contribution to cost of land will also be required.
DID17	Education	Ladygrove East: off-site contributions to SEN	OCC / Developer	OCC / Developer Contributions	~~£~~500,000	Approximate cost identified by OCC in 2018, subject to amendment and index linking, based on providing additional SEN capacity off-site.
DID18	Education	Contributions towards school capacity in the area (primary, secondary and SEN) will be expected from Vauxhall Barracks, Orchard Centre Phase II, Didcot A, Didcot Gateway and Hadden Hill.	OCC / Developer	OCC / Developer Contributions	TBC	Will be site specific.
DID19	Flood Risk	East Hagbourne Flood Risk Management Scheme	Environment Agency / OCC	Not identified	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Cost to be confirmed following further more detailed work
DID20	Flood Risk	Ladygrove East: integrated network of sustainable drainage and green infrastructure the enhancement of ecologically important habitats including wetland, woodland and species rich grassland	Developer	Developer Contributions	TBC	
DID21	Transport	Didcot Garden Town Project - Central Didcot Transport Corridor Improvements	OCC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£60,000,000	OXIS 2017 Project costs from LGF2
DID22	Transport	Didcot Parkway Station Improvements	DfT/ Network Rail	Not Identified	£90,450,000	OXIS 2017 Project costs from LGF2

DID23	Transport	Didcot Northern Perimeter Road Phase 3	HCA / OCC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£15,224,000	Project being progressed. A number of sites within Didcot will contribute to this infrastructure. Identified in OXIS 2017
DID24	Transport	Didcot Town Cycle Improvements	OCC / Developer	Developer Contributions (combination of CIL & S106) Grant Funding	£9,350,000	A number of sites within Didcot will contribute to this infrastructure. Identified in OXIS 2017
DID25	Transport	Garden Line Cycle Improvements	Not Identified	Not Identified	£35,200,000	Identified in OXIS 2017
DID26	Transport	Didcot Jubilee Way Junction	Not Identified	Not Identified	£6,500,000	A number of sites within Didcot will contribute to this infrastructure. Identified in OXIS 2017
DID27	Transport	Didcot Parkway interchange cycling improvements	DfT / Network Rail / Operator / OCC / SODC	Developer Contributions (combination of CIL & S106) Grant Funding	£5,000,000	A number of sites within Didcot will contribute to this infrastructure. Identified in Sustainable Transport Study 2017

Appendix 2.9 – Infrastructure Schedule: District-wide

Ref	Infrastructure Type	Intervention	Delivery Partners	Potential Funding Source	Estimated Cost / Formula / Standard	Notes
DWI01	Emergency Services	Police	Thames Valley Police / Developer	TBC	TBC	Wil be site specific
DWI02	Community Facilities	Libraries	OCC / Developer	Developer Contributions	TBC	Will be site specific. Cost to be confirmed in consultation with OCC
DWI03	Community Facilities	Recycling and waste	SODC/ Developer	Developer Contributions	Based on cost of £170 per dwelling	Will be site specific. As set out in SODC S106 financial contributions and fees Schedule.
DWI04	Community Facilities	Street naming and numbering	SODC/ Developer	Developer Contributions	Based on cost of £134*(number of dwellings/10)	Will be site specific. As set out in SODC S106 financial contributions and fees Schedule.
DWI05	Community Facilities	Public Art	SODC/ Developer	Developer Contributions	Based on cost of £300 per dwelling	Will be site specific. As set out in SODC S106 financial contributions and fees Schedule.
DWI06	Community Facilities	Community Hall	SODC/ Developer	Developer Contributions	225 sq. m per 1,000 population	Will be site-specific Will be determined using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings.
DWI07	Health	GP provision	NHS England / CCG / Developer	NHS England / Developer Contributions	Based on cost of 2.4*number of dwellings*£360	Will be site specific. Cost should be derived in consultation with the Oxfordshire Clinical Commissioning Group. .
DWI08	Health	Dentist provision	NHS England / Developer	NHS England / Developer Contributions (combination of CIL and S106)	TBC	Will be site specific. To be confirmed following more detailed work
DWI09	Open Space	Parks and gardens and amenity greenspace	Developer	Developer Contributions		Will be site specific. Costs based on Open Spaces Study standards (January 2017)
DWI10	Open Space	Allotments	Developer and SODC	Developer Contributions		Will be site specific. Costs based on Open Spaces Study standards (January 2017)
DWI11	Open Space	Children's playspace	Developer	Developer Contributions		Will be site specific. Costs based on Open Spaces Study standards (January 2017)

DWI12	Sports and Leisure	Sports Facilities	SODC/ Developer	Developer Contributions	Sports Hall - 0.3 badminton courts per 1,000 population Swimming Pools - 11.4 sq. m of water space per 1,000 population Health and Fitness - Fitness building: 4.2 fitness stations per 1,000 population. Fitness equipment: 4.2 fitness stations per 1,000 population. Studio space: 0.14 sq. m of studio space per 1,000 population. Athletics Contribution - 0.3 athletics, cycling and walking routes per 1,000 population Indoor Bowls - 0.06 facility per 1,000 population (North and South: 0.08 facility per 1,000 population) Indoor Tennis facility (4 court) - 0.03 facility per 1,000 population Squash Courts - 0.1 courts per 1,000 population Gymnastics - 0.04 centre per 1,000 population (North: 0.02 centre per 1,000 population) (South: 0.03 centre per 1,000 population)	Will be site-specific Provision will be required in line with the latest versions of leisure studies. Will be determined using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings Standard shown here is for the West sub-area. Where this varies for the North and South sub-areas this is shown.
DWI13	Sports and Leisure	Playing Pitches	SODC/ Developer	Developer Contributions	3G AGP - 0.093 pitches per 1,000 population Football pitches - 0.65 pitches per 1000 population Cricket pitches - 0.08 pitches per 1,000 population Rugby pitches - 0.11 pitches per 1000 population Hockey (artificial) - 0.03 courts per 1,000 population Changing pavilion (4 team) - capital cost dependent on pitch requirement	Will be site-specific Provision will be required in line with the latest versions of leisure studies. Will be determined using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings Standard shown here is for the West sub-area. Where this varies for the North and South sub-areas this is shown.
DWI14	Sports and Leisure	Local Leisure Facilities	SODC/ Developer	Developer Contributions	Outdoor Bowls - 0.08 courts per 1,000 population Outdoor Tennis - 0.38 courts per 1,000 population	Will be site-specific Provision will be required in line with the latest versions of leisure studies. Will be determined using the SODC Leisure Contributions Assessment Calculator, which is based on location of site and number of dwellings Standard shown here is for the West sub-area. Where this varies for the North and South sub-areas this is shown.
DWI15	Education	Primary School provision, including early years provision	OCC / Developer	Developer Contributions (combination of CIL & S106)	TBC	Will be site specific Cost to be identified by OCC. Sufficient land may be required in order to deliver primary school provision on-site.
DWI16	Education	Secondary School provision	OCC / Developer	OCC / Developer Contributions	TBC	Will be site specific Cost to be identified by OCC. Sufficient land will be required in order to deliver secondary school provision on-site.
DWI17	Education	SEN provision	OCC / Developer	OCC / Developer Contributions	TBC	Will be site specific Cost to be identified by OCC Likely to be contributions to off-site provision
DWI18	Utilities	Strategic water supply upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Will be site specific Further modelling and consultation with Thames Water will be required to determine the scale of the water supply upgrades that may be needed.
DWI19	Utilities	Wastewater treatment upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Will be site specific Further modelling and consultation with Thames Water will be required to determine the scale of the wastewater treatment upgrades that may be needed.

DWI20	Utilities	Wastewater / Sewerage System Network upgrades	Thames Water / Developer	Thames Water / Developer	TBC	Will be site specific Further modelling and consultation with Thames Water will be required to determine the scale of the wastewater network upgrades that may be needed.
DWI21	Utilities	All necessary improvements to allow connections to the electricity transmission network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SSEN	Developer / SSEN	TBC	Will be site specific Costs for any necessary improvement to be apportioned between the developer and the Distribution Network Operator in accordance with the current Statement of Charging Methodology agreed with the industry regulator
DWI22	Utilities	All necessary improvements to allow connections to the gas distribution network, likely to include on-site infrastructure and where relevant off-site system reinforcement	Developer / SGN	Developer / SGN	TBC	Will be site specific Further modelling and consultation with SGN will be required to determine the scale of improvements that may be needed.
DWI23	Utilities	Reinforcements at Milton Primary Substation - replace 2 x 7.5/15 MVA Grove 33/11 kV transformers with 2 x 15/30 MVA 33/11 kV units	Scottish and Southern Electricity Networks	Scottish and Southern Electricity Networks	£3,480,000	SSEN Feasibility Study (2016)
DWI24	Utilities	Milton Primary Substation connections - install new 33 kV circuit from Drayton and connect into the Fulscot - Cholsey circuit near Fulscot. Disconnect the Fulscot end of this circuit creating a new Drayton - Cholsey circuit.	Scottish and Southern Electricity Networks	Scottish and Southern Electricity Networks	£5,890,000	SSEN Feasibility Study (2016)
DWI25	Utilities	Works at Headington Bulk Supply Point - replace 2km of 132Kv cable in the Headington / Yarton circuits 1 and 2	Scottish and Southern Electricity Networks	Scottish and Southern Electricity Networks	£2,750,000	SSEN Feasibility Study (2016) Headington BSP supplies seven primary substations, of which only Wheatley supplies new development locations in South Oxfordshire.
DWI26	Utilities	Potential reconfiguration or upgrades of Berinsfield Primary Substation	Scottish and Southern Electricity Networks	Scottish and Southern Electricity Networks	TBC	OXIS 2017 highlighted that a new 33kV circuit from Cowley BSP to Berinsfield Primary might be an alternative approach to increase the capacity of Berinsfield and Wallingford Primary Substations. Consultation with SSEN and feasibility studies for the optimum solution will be required as development comes forward. Cost to be confirmed following further more detailed work.
DWI27	Utilities	Potential reconfiguration or Wallingford Primary Substation	Scottish and Southern Electricity Networks	Scottish and Southern Electricity Networks	TBC	OXIS 2017 highlighted that a new 33kV circuit from Cowley BSP to Berinsford Primary might be an alternative approach to increase the capacity of Berinsford and Wallingford Primary Substations. Consultation with SSEN and feasibility studies for the optimum solution will be required as development comes forward. Cost to be confirmed following further more detailed work.
DWI28	Utilities	Potential upgraded or new (replacement) Household Waste Recycling Centre	OCC	OCC / Developer Contributions (S106)	TBC	Identified in Household Waste Recycling Study. As part of the rationalisation of sites across the county, the new or upgraded facility may not be within the district. Cost to be confirmed following further more detailed work.

DWI29	Flood Risk	Sustainable Drainage System (SuDS)	Developer and OCC	Developer Contributions	TBC	Will be site-specific
DWI30	Flood Risk	Enhancement, improvement and upgrades to culverts and streams on-site	Developer and OCC	Developer Contributions	TBC	Will be site-specific
DWI31	Flood Risk	Shillingford Flood Risk Management Scheme	Environment Agency / OCC	Not yet identified	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017 Cost to be confirmed following further more detailed work
DWI32	Flood Risk	Dorchester Flood Risk Management Scheme	Environment Agency / OCC	Not yet identified	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017 Cost to be confirmed following further more detailed work
DWI33	Flood Risk	Drayton St Leonard Flood Risk Management Scheme	Environment Agency / OCC	Not yet identified	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017 Cost to be confirmed following further more detailed work
DWI34	Flood Risk	Stadhampton Flood Risk Management Scheme	Environment Agency / OCC	Not yet identified	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017 Cost to be confirmed following further more detailed work
DWI35	Flood Risk	Wheatley West Attenuation Scheme	Environment Agency / SODC	SODC / Developer Contributions	£40,000	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017
DWI36	Flood Risk	Benson Flood Risk Management Scheme	Environment Agency / OCC	Not identified	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Cost to be confirmed following further more detailed work
DWI37	Flood Risk	Goring on Thames Flood Risk Management Scheme	Environment Agency / OCC	Grant In-Aid / Contributions	£386,000	Environment Agency Flood and Coastal Erosion Risk Management (FCERM) Programme - England
DWI38	Flood Risk	Wallingford Flood Risk Management Scheme	Environment Agency / OCC	Not identified	TBC	Project scoped in Environment Agency FCRM1 - Medium Term Plan Identified in OXIS 2017 Cost to be confirmed following further more detailed work
DWI39	Transport	Upgrading of A4074 Golden Balls junction	OCC / Developer	Developer Contributions	£20,000,000	A number of sites will contribute to this infrastructure, including Chalgrove Airfield, Berinsfield, Culham, Grenoble Road and Northfield. Costs subject to refinement following more detailed work.
DWI40	Transport	Culham-Didcot Thames River Crossing	OCC / DfT/ Network Rail / Developer	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£119,787,000	A number of sites will contribute to this infrastructure, including Berinsfield and Culham. Costs subject to refinement following more detailed work.

DWI41	Transport	Clifton Hampden bypass	OCC / DfT/ Network Rail / Developer	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£25,606,000	A number of sites will contribute to this infrastructure, including Berinsfield and Culham. Costs subject to refinement following more detailed work.
DWI42	Transport	Watlington bypass	OCC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£13,000,000 - £20,000,000	A number of sites will contribute to this infrastructure, including Chalgrove and sites with the Watlington Neighbourhood Plan. Cost from OXIS 2017.
DWI43	Transport	Benson bypass	OCC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£13,000,000 - £20,000,000	A number of sites will contribute to this infrastructure, including Chalgrove and sites with the Benson Neighbourhood Plan Cost from OXIS 2017.
DWI44	Transport	Bus stops / rights of way / Travel Plan monitoring	OCC / Developer	Developer Contributions	200*number of dwellings	Formula provided by OCC
DWI45	Transport	Great Western Railway Route Modernisation	DfT / Network Rail	DfT / Network Rail	£4,900,000,000	Costs from OXIS 2017
DWI46	Transport	Western Rail Link to Heathrow - facilitates new direct services from Didcot and Oxford	DfT / Network Rail	DfT / Network Rail	£500,000,000	Costs from OXIS 2017
DWI47	Transport	Didcot Science Bridge and A4130 Capacity Improvements	OCC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£71,301,000	A number of sites will contribute to this infrastructure including sites in Didcot. Costs from OXIS 2017
DWI48	Transport	Oxford Park and Ride - A40 (East) corridor (Thornhill)	OCC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£2,500,000	Costs from OXIS 2017
DWI49	Transport	Science Vale Cycle Network Improvements	OCC / Developer	Developer Contributions (combination of CIL & S106) Grant Funding / LGF	£30,000,000	A number of sites will contribute to this infrastructure including sites in Didcot, Culham and Berinsfield. Costs from OXIS 2017
DWI50	Transport	A4074 capacity improvements	OCC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	£20,000,000	Improvements required to allow general vehicular and public transport access between development sites and Oxford. Costs from OXIS 2017
DWI51	Transport	Benson to Wallingford cycle route minor improvements	OCC / Developer	Developer Contributions (combination of CIL & S106) Grant Funding / LGF	£0-5,000,000	Identified in Sustainable Transport Study 2017 <1 year delivery duration
DWI52	Transport	Premium cycle route between Didcot, Crowmarsh Gifford and Wallingford	Developer / OCC / SODC	Developers / OCC / SODC	£5,000,000-10,000,000	Identified in Sustainable Transport Study 2017. 1-2 year delivery duration
DWI53	Transport	New cycle route between Culham Science Centre and Abingdon / Oxford	OCC / Developer	Developer Contributions (combination of CIL & S106) Grant Funding / LGF	£5,000,000-10,000,000	Identified in Sustainable Transport Study 2017 and OCC Science Vale Cycle Study 1-2 year delivery duration

DWI54	Transport	Improvements to cycle routes to rail stations	Developer / Network Rail / OCC / SODC	Developers / Network Rail / OCC / SODC	£0-5,000,000	Identified in Sustainable Transport Study 2017. 1-2 year delivery duration
DWI55	Transport	New cycle route between Berinsfield and Oxford	OCC / Operators	Developer Contributions (combination of CIL & S106) Grant Funding / LGF	£500,000-5,000,000	Identified in OCC LTP4 - Science Vale Cycling Strategy. A number of sites will contribute to this infrastructure including Grenoble Road and Berinsfield.
DWI56	Transport	Bus service provision	OCC / Developer	Developer Contributions	TBC	Will be site-specific To be confirmed following further more detailed work and in discussion with OCC and SODC
DWI57	Transport	Thame to Haddenham cycle route	OCC / Developer	Developer Contributions (combination of CIL & S106) Grant Funding	£2,000,000	Cost covers Oxfordshire section only.
DWI58	Transport	Intra-urban cycling routes	OCC / Developer	Developer Contributions (combination of CIL & S106) Grant Funding		
DWI59	Transport	Any additional improvement to highways infrastructure required to bring forward the strategic development	TBC	Developer Contributions (combination of CIL & S106) / S278 / Grant Funding	TBC	Will be site-specific To be confirmed following further more detailed work and in discussion with OCC and SODC
DWI60	Transport	Any additional sustainable transport upgrades / enhancement (including bus travel, walking and cycling) require to bring forward the strategic development	TBC	Operators / OCC / Network Rail / DfT / Developer Contributions	TBC	Will be site-specific To be confirmed following further more detailed work and in discussion with OCC and SODC
DWI61	Other	Contributions towards other county infrastructure	OCC / Developer	Developer contributions	TBC	This could include, but is not limited to, fire and rescue, adult social care, extra care housing and public health