GOLDEN VALLEY DEVELOPMENT SUPPLEMENTARY PLANNING DOCUMENT

A Garden Community Development and home of Cyber Central UK

JULY 2020











Contents

FOREWORD

PART A INTRODUCTION AND CONTEXT

1	Introduction
1.1	A unique opportunity7
1.2	The site10
1.3	SPD implementation10

PART B

MASTERPLAN FRAMEWORK AND OBJECTIVES

2	Vision and Strategic Objectives13
2.1	Vision Statement
2.2	The masterplan framework and strategic objectives 14
2.3	Key benefits to the wider area16
3	Embracing the highest standards of environmental sustainability
3.1	Introduction
3.2	Key sustainability principles20
4	A vibrant and diverse range of uses and activities, serving existing and new communities
4	•
	serving existing and new communities
4.1	serving existing and new communities
4.1 4.2	serving existing and new communities

6	An integrated and connected extension of West Cheltenham	42
6.1	Introduction	42
6.2	Key movement principles	44
7	Promoting the highest standards of design quality	50
7.1	Introduction	50
7.2	Key character and placemaking principles	52
7.3	Character studies	56
7.4	Place 1: Cyber Central UK	58
7.5	Place 2: Old Gloucester Road neighbourhood	66
7.6	Place 3: Main street neighbourhood	72

NEXT STEPS

8	Next steps)
8.1	Next steps)
8.2	Assessment matrix and Design Review82)





This document certifies that **Cheltenham Borough Council** and **Tewkesbury Borough Council** have successfully demonstrated compliance with the Building with Nature Standards for their strategic policy document titled Golden Valley Development SPD (April 2020).

The status of the application is: Building with Nature Full Accreditation (Excellent)

This award was given on 9 June 2020 based on an Assessment of Golden Valley Development SPD by Carol Somper and Audit by Dr Gemma Jerome.

Accreditation approved by:

Gemma Jerome

Gerome.





FOREWORD

There is little doubt that the opportunity presented by the Golden Valley Development is truly compelling and its significance, not only to Cheltenham and Tewkesbury but also to Gloucestershire and the surrounding region, cannot be underestimated.

As a region, we are already at the forefront of the UK's rapidly expanding cyber industry. With the Golden Valley Development, we have a unique opportunity to build on this, creating an internationally significant cyber-tech campus that will lead the way in the UK's mission to be the safest place to do online business and a world leader in cyber security.

The Golden Valley will be a place where innovation and commerce collide, offering a substantial, accessible site with far-reaching benefits for our local communities. It will create new and diverse employment opportunities, improve our sustainable transport infrastructure and drive forward housing growth. Sustainability will be at the heart of the plans but our Garden Community status means we will go further - adhering to pioneering design principles around open space, community engagement and the provision of exemplar homes that meet the needs of our future communities.

This Supplementary Planning Document will be a key enabler in realising this vision and supporting the delivery of a one of the most innovative and exciting, large-scale developments anywhere in the country. It provides the roadmap to achieve sustainable, inclusive economic growth and to create an inspirational place to live, work and play against the backdrop of a world-class environment.

No single entity can deliver this ambition alone. Through our collective leadership, shared investment and collaborative approach, we're confident that we will see a pioneering and world-class development take shape.

Councillor Steve Jordan Leader Cheltenham Borough Council

Councillor Mel Gore Lead Member for Built Environment Tewkesbury Borough Council

PART

INTRODUCTION AND CONTEXT

10.00

1

1

1 Introduction

1.1 A unique opportunity

Cheltenham is located at the heart of 'Cyber Valley', a regional-scale cluster of cyber-related businesses running along the Severn Valley and connected to a 'cyber arc' running from Birmingham to Bristol and beyond. The UK cyber market is worth an estimated £8.3 billion, having doubled in the last two years. Cyber security is the UK's fastest growing sector and this growth is set to continue. Cheltenham is the UK's focal point of activity in cyber security. The establishment of Cyber Central UK – a new cyber security mixed-use cluster in West Cheltenham – is the centrepiece of the town's and wider Gloucestershire's economic development strategy as set out in the emerging Local Industrial Strategy and Gloucestershire Strategic Economic Plan.

The Golden Valley Development is the new name for the strategic allocation site in the Joint Core Strategy (JCS) identified as A7 West Cheltenham and the future safeguarded land (Hayden Sewage Treatment Works) identified within SD5 of the JCS. The Golden Valley Development comprises the new Garden Community Development and the home of Cyber Central UK.

Responding positively to the Government's Garden Communities and National Cyber Security agendas, the objective is to deliver a pioneering new community that combines world-class cyber business and academic facilities, exemplar housing and state-of-the-art amenity and leisure facilities in a highly accessible and environmentally sustainable development.

As part of a number of key strategic sites being identified in the Joint Core Strategy, the site presents a unique opportunity to pro-actively deliver new investment, new jobs, new homes and new infrastructure in an innovative environmentally sensitive manner. Key requirements for the allocated site (Policy A7 of JCS) can be summarised as follows:

- The delivery of approximately 1,100 new homes¹, including affordable housing and diverse living options;
- The creation of a mixed-use The Golden Valley Development Cluster including the creation of approximately 45 Ha of mixed use development land, bringing together leading cyber businesses and innovators alongside academic facilities dedicated to cyber and digital technologies;
- Creating cohesive site wide green and blue infrastructure, for the benefit of people, environment and wildlife;
- The establishment of a diverse and vibrant neighbourhood with activities throughout the day and into the evening;
- A development which creates new and helps to transform existing communities, ensuring they are healthy, biodiverse environments which encourage physical, mental and social wellbeing;
- An exemplar development, setting high sustainability and design standards to address climate change through net zero carbon development that is responsive to the character of the landscape;
- Deploying new 'smart' technologies to reduce the use of resources including water and energy in both the development construction process, long term use of buildings and environments, and transport connections to, through and from the site; and
- An accessible development that is physically, digitally and culturally integrated.

This document seeks to provide guidance on how the above outcomes are expected to be delivered. There is a direct relationship between the strategic allocation and the neighbouring safeguarded land, the latter is referenced in this SPD for wider context. The release of the safeguarded land for development can only be achieved through the land being identified as a strategic allocation through the review of the JCS.

¹ Policy A7 establishes a requirement for approximately 1,100 new homes and approximately 45 Ha of employment land subject to site masterplanning. Appendix 4 details the development capacity study undertaken during the preparation of this SPD - and highlights that, informed by the strategic masterplanning work undertaken for the SPD, the allocated site is likely to present the opportunity for significantly more dwellings.

Context

- 1.1.1 Since the arrival in Cheltenham of GCHQ in the 1950s, the town and its people have played an increasingly important role in the cyber security sector. This role was emphatically underwritten with GCHQ's decision to consolidate operations in West Cheltenham. Their 'Doughnut' HQ facility, which opened in 2005, is a strong and prominent symbol of the existing importance of the cyber security sector in the town, which now boasts an existing cluster of over 200 organisations. Investment has continued, with the GCHQ Cyber Accelerator programme opening in 2017 which provides support for start ups in the UK's cyber security sector.
- The National Cyber Security Strategy and Industrial 1.1.2 Strategy place huge importance on cyber growth. Cheltenham Borough Council's economic development ambitions as defined by the Cheltenham Place Vision, GFirst LEP's Local Industrial Strategy and the Gloucestershire Strategic Economic Plan have all found that tapping into growth opportunities in the cyber security sector will produce high value, high growth employment opportunities which will help achieve key objectives of both of these strategies. Coordinated effort to support growth in this sector will help to boost productivity. The SPD therefore seeks to provide a tool for further engaging with key partners including GCHO, the University, Cheltenham Borough Homes, GFirst LEP and the Cheltenham Science Festival. Further information on the wider strategies and funding position is provided within Appendix A2 of this SPD.
- 1.1.3 Cyber Central UK will be the first of its kind in the UK; a unique location dedicated to the development of cyber research, skills and capability to counter a threat estimated to cost the UK up to £30bn annually. The ambition is to deliver one of the best places in the world to design, create, grow and operate innovative cyber security businesses of any scale. Cyber Central UK will be a campus that integrates high-tech workplaces with academic facilities, accommodation and leisure, attracting and developing the best talent. These cutting edge facilities will be set within a new garden community with homes of all tenures and types, contributing significantly to local housing needs.

Policy framework and infrastructure needs

- 1.1.4 The full potential of this unique employmentled mixed use development opportunity in West Cheltenham was considered during the preparation of the Gloucester, Cheltenham and Tewkesbury Joint Core Strategy (JCS), adopted in December 2017. This was a direct response to the longer term economic challenges and the need for new employment land. Working with key stakeholders, the JCS Councils collaboratively crafted a new growth strategy for the area.
- 1.1.5 The key relevant policies in the JCS include:
 - Policy SA1 a delivery policy that sets the context of how the JCS strategic allocations will be delivered. Development proposals should enable a comprehensive scheme to be delivered via a masterplan. The policy sets out expectations, in policy terms, of use of local green space, the planning of infrastructure, and transport.
 - Policy A7 the site has been allocated for employment, housing and wider mixed-use development with the ambition to attract very significant levels of inward investment whilst also helping neighbouring communities to regenerate and actively engage in the opportunities new development will create. The policy formally designates land at West Cheltenham for approximately 1,100 new homes and approximately 45 hectares of employment land. The policy provides detail within the context of Policy SA1 and Policy SD5 relating to comprehensive master planning, constraints and transport.
 - Policy SD5 details the JCS policy for Green Belt, this also includes land identified to meet longer term development needs and allocated as safeguarded land. Land at West Cheltenham immediately adjacent to land allocated for development by Policy A7 is safeguarded. The trigger for development on this area is through a review of the JCS which is now underway. This SPD forms part of the evidence base for that review.
- Connectivity is key for The Golden Valley
 Development to maximise its potential, ensuring
 both direct access to the motorway and the
 effectiveness of the local highway network,
 through physical connections and suitable
 linkages for sustainable transport options. The
 2020 budget (11th March 2020) announced
 funding of the upgrade to M5 Junction 10 through
 the homes England Housing Infrastructure Fund,
 with the works anticipated for completion by

2024, these works support the JCS strategic allocations at North West and West Cheltenham. This work is complemented by the Connecting Cheltenham report which clearly sets out the long term strategy and delivery plan for transport in Cheltenham. Further analysis of the transport context is provided within Appendix A2.

JCS Policy A7 makes reference to residential 1.1.7 numbers (1,100) and employment land quantum (45 hectares), however the JCS is explicit in that these are considered to be approximate. During the preparation of this SPD, consideration was given to the appropriateness of these quantums based upon sound master planning principles and the technical evidence available at the time of writing. The SPD identifies potential scope for levels of development beyond the approximate levels included in policy (see Appendix A4) but it should be noted that any such uplifts would need to be justified through the development management process in terms of their impact on existing infrastructure and all other appropriate planning matters. The uplift envisaged has been achieved largely through the inclusion of residential uses within Cyber Central UK. The benefits of a mixed use approach are explored in Chapter 4 of this SPD. It will be however for the development management process to determine the final levels development on the site based upon a robust and detailed evidence based including assessment of transport infrastructure at that point in time. The Councils are clear however that they wish the site to be developed in an efficient manner which will assist in meeting the objectives of creating a viable and sustainable garden community.

1.1.8 The SPD also seeks to respond to the recent publication of national design guidance (October 2019)¹.

The Golden Valley Development Garden Community

1.1.9 The national housing crisis is presenting acute housing supply challenges across the country and particularly the south of England. Homes England, the Government's nondepartmental body tasked with accelerating the delivery of housing across England, share Cheltenham and Tewkesbury's vision and ambition for the establishment of a new garden community in Cheltenham. The vision for The Golden Valley Development in West Cheltenham encompasses the widest spectrum of uses and activities, clustered around the core cyber security commercial and research activities, to create an integrated and connected new garden community.

- 1.1.10 There are a number of key elements from the joint Garden Communities bid submitted by Cheltenham and Tewkesbury councils that are intended to be carried through into this SPD including:
 - Diverse living options varied affordable and flexible tenancies with the significant numbers of homes possibly being delivered by CBC
 - Connected an accessible development that is physically, digitally and culturally integrated
 - A 24/7 campus a dynamic community that integrates a diverse mixture of uses and people
 - Inclusive a transformational development that creates strong communities
 - Healthy a green and biodiverse development that encourages physical and mental well-being
 - Environmentally innovative an ecologically friendly development that is restorative to its natural surroundings in pursuit of carbon neutrality.
 - A smart ecosystem a connected community that is digitally, environmentally and socially intelligent
 - Intense & and tranquil a vibrant and thriving community within a beautiful, multi-functional and highly connected landscape setting
 - A world class campus a collaborative community that brings together leading cyber businesses and innovators alongside academic facilities dedicated to cyber and digital technologies for upskilling, training and research
- 1.1.11 Significant challenges will need to be addressed to help realise the potential, but collaborative and co-ordinated action is now being taken to address these issues. Land has been safeguarded for further phases of growth. As well as providing supplementary guidance to help co-ordinate new development within the allocated site, this SPD also looks beyond the current plan period towards further phases of growth, highlighting the potentially very significant benefits associated with the relocation of the Hayden Sewage Treatment Works.

¹ https://www.gov.uk/government/publications/nationaldesign-guide

1.2 The site

- 1.2.1 The SPD area is shown in Figure 1 which outlines both the strategic allocation land identified in the JCS and the land safeguarded to the west which is earmarked to come forward in the next plan period. The SPD area is located to the west of Cheltenham between the westerly extent of the town and the M5 corridor. The land sits between Junction 10 and 11 of the M5.
- 1.2.2 The 132 Ha allocated site extends from the A4019 in the north to Pheasant Lane in the south. It borders the residential communities of Hester's Way, Springbank and Fiddler's Green to the east. Some of these communities suffer from significant issues of deprivation and therefore the delivery of regeneration benefits from this development is of key importance The site's western boundary runs along Hayden Lane and the field boundaries close to Hayden Village. The 69 Ha safeguarded area takes in the Hayden Sewage Treatment Works to the south west.
- 1.2.3 A larger strategic allocation site north of the Tewkesbury Road, Elms Park, covers an area of 320 Ha and along with the West Cheltenham site, forms part of the ambitious growth vision for Cheltenham. To the west of this is another area of safeguarded land covering an area of 150 Ha, again planning for Cheltenham's long term development needs.
- 1.2.4 The borough boundary between Cheltenham and Tewkesbury runs north-south through the SPD site and both councils have been joint collaborators on this SPD.
- 1.2.5 There is close proximity to Flood Zone 2 to the north of the site and a southern section of the site lies within Flood Zone 2 and 3 from the Hatherley Brook. There is also a tributary within the site of the Hatherley Brook.

1.3 SPD Implementation

Status

- 1.3.1 The purpose of this SPD is to provide further guidance and details relating to the interpretation of policies set out in the relevant Development Plans. In this case, the JCS. This SPD supplements a number of JCS policies, but in particular Policy A7 West Cheltenham. Consideration is also made throughout to Policy SD5 in light of the current review of the JCS and the need to future-proof the masterplan for allocation A7 by ensuring coordination with future linkages and infrastructure requirements on the Hayden Sewage Treatment Works . Further material policy references are listed within Appendix A2.
- 1.3.2 Public and stakeholder engagement has been central to the process of SPD preparation. This has included a number of stakeholder workshops, meetings and public exhibitions. This SPD has been shaped in response to two rounds of consultation and feedback received during the formal consultation on the draft document during January and February 2020. A consultation statement has been prepared setting out the key issues raised and how this SPD has been amended in response to these.
- 1.3.3 Having been prepared in accordance with the relevant regulations, the SPD is a material planning consideration and will have substantial weight in the determination of relevant planning applications by the two local planning authorities.

Structure

- 1.3.4 This SPD is structured in two parts. Part A introduces the site and its context. Part B contains the strategic masterplan framework, objectives and key principles. This includes the vision and key objectives for the site which are outlined over several key chapters. Guidance on Placemaking (the intention of creating public spaces that promote people's health, happiness, and well-being) and more detailed design guidance for new development is contained, along with longer term strategic guidance on the potential redevelopment of the Hayden Sewage Treatment Works site.
- 1.3.5 A summary is also provided which set outs the next steps and makes reference to a planning and delivery strategy which will be developed in parallel to the SPD.
- 1.3.6 The appendices sets out further detail on the site's context, its physical and environmental constraints and a summary of engagement activities to date.



A living document

- 1.3.7 This SPD, prepared with the benefit of wide- ranging public and stakeholder engagement, presents a broad and flexible masterplan framework for the allocation site (and adjacent safeguarded land see Appendix A3). Detailed proposals including further refined masterplans will be expected, through the development management process, to respond positively to the objectives, principles and guidance contained in this SPD which supplement relevant JCS policies.
- 1.3.8 The SPD is not expected to be formally reviewed as flexibility has been incorporated to allow for any future policy changes and the envisaged development time line. Depending on the outcome of the JCS review and the future of the safeguarded land, further strategic masterplanning may be helpful. The supporting guidance contained in Appendix A3 regarding the safeguarded land is for information only and to inform sound masterplanning of the strategic allocation. The safeguarded land does not form part of this SPD.

Assessment matrix

- 1.3.9 There is detailed design guidance within this SPD, however this relates to one vision of how the development may come forward. The SPD is therefore not seeking to be overly prescriptive and other design approaches maybe considered appropriate but only if it can be demonstrated that they still respond positively to the overall SPD objectives and principles including the delivery of a garden community.
- 1.3.10 New development proposals will therefore be assessed through the development management process against the objectives and principles outlined in this SPD using the assessment matrix in Section 8.2.

Figure 1 Location of site showing the allocated land (red outline) and safeguarded land (dashed red line)



MASTERPLAN FRAMEWORK AND OBJECTIVES

PART

12



2 Vision and Strategic Objectives

2.1 Vision Statement

The Golden Valley Development creates a vibrant pioneering community integrating hi-tech business, residential and leisure uses. At its heart the UK home of cyber, digital and creative sectors arising from Cheltenham's international reputation for leadership in cyber innovation. This is a sector that is experiencing rapid growth. The ability for the industry to scale-up is essential to maintain and enhance the UK leading role. With a significant development site adjacent to GCHQ in a highly accessible location with great connectivity, the opportunity exists to create a destination of global significance.

This is a place that is culturally rich and exciting, where the edges are blurred between living, working and play. A magnet for businesses, leaders, creators and innovators, built around a strong sense of community, somewhere exciting with soul and with a clear identity. Its energy and creative core will be an attractor to entrepreneurs and investors as much as it will be to local people and visitors.

Cyber Central UK will be the national home of hi-tech innovation, nurturing an environment of creativity and collaboration. It is a place where this deep rooted pioneering culture thrives; a place where the boundaries of innovative thinking are constantly pushed. A place that bright minds and young talent co-create and want to live.

It will require the highest standards of environmental sustainability integrating exemplar homes as part of a thriving campus and garden community, defined by its quality in design, active travel network, public spaces and approach to connectivity both digitally and physically.

Located in the heart of the UK, and anchored between existing centres of industrial and academic excellence in cyber tech such as Bristol, Oxford, Bath, Cardiff, Malvern and Warwick. This significant site is in a highly accessible location with great connectivity.

2.2 The masterplan framework and strategic objectives

- 2.2.1 The Golden Valley Development Masterplan is presented in Figure 2. The Masterplan Framework encapsulates a number of key objectives for the delivery of The Golden Valley Development. These objectives are as follows:
 - **OBJECTIVE A:** Embracing the highest standards of sustainability through ensuring development is resource efficient and carbon neutral; tackles air quality; resilient through the application of sponge city and SuDS principles and the use of green infrastructure features to create climate resilient microclimates for user comfort; enriching local biodiversity; whilst forming the basis of a sustainable community, embracing the opportunity for sustainable transport and full urban integration.
 - **OBJECTIVE B:** Cyber Central UK, a new and unique dedicated campus for the cyber-tech community, will be the focus of a vibrant, integrated, inclusive and diverse range of uses and activities, serving existing and new communities at densities which make effective use of land (see Appendix A4).
 - **OBJECTIVE C:** Working with the natural landscape and its features to create new climate resilient environments which integrate existing landscape assets; integrate with adjacent land and biodiversity assets; provision of generous and flexible network of formal and informal open spaces to create climate resilient microclimates of varying scales which help to integrate with and connect to new and existing communities; create landscapes which help to minimise and mitigate flood risk; promote local food production; support and promote local public art initiatives; and, benefit from an appropriately resourced management regime.
 - **OBJECTIVE D:** Complementing the approach set out in the Local Transport Plan (LTP) and Connecting Cheltenham (2019), proposals will deliver an integrated and connected extension of West Cheltenham through the establishment of an open and permeable network of streets; a connected network of green off-road routes encouraging greater walking and cycling; the design and delivery of streets and junctions which prioritise the needs of people and sustainable modes of transport; the provision new direct connections to existing communities and facilities; and, a flexible approach to the application of parking standards to ensure development promotes modal shift.

- **OBJECTIVE E:** Promoting the highest standards of design quality through making effective use of land through higher density development (see Appendix A4), learning from local, national and international exemplars of good design, and applying good urban design principles for example including the use of green infrastructure features to help reduce the heat island effect.
- 2.2.2 It should be noted that this masterplan framework is indicative and for illustrative purposes only. Whilst it has been prepared in view of a high level understanding of the site's environmental, utilities related, topographic and other assets and constraints, it is meant to be a flexible framework. More detailed work will be required to ensure compliance with all relevant policies in the development plan and that development proposals are viable.
- 2.2.3 Under each objective, a number of key principles, each with supporting guidance, is outlined in the following sections. These objectives, principles and their guidance will be used when assessing development proposals for the site. See 8.2 for the Qualitative Assessment Matrix which will be used during that assessment process.

Potential / enhanced bus route Higher density mixed use - Cyber Central UK Formal landscape frontage - development related activities including the Innovation Centre, should address these key public spaces workspace, R&D and academic space, retail and Pedestrian/cycle connection support services ← Connection with existing green space -祡 Vehicular access/connection (major & minor) urban integration Mid density mixed use - general mixed use Key proposed flexible green open spaces development including commercial, community and + residential uses Existing bus route Mid density development - housing-led garden ----communities including community infrastructure Cyber Central UK - cluster of employment, retail, $\hat{}$ leisure and community activity OLD GLOUCESTER Primary street frontage - most suitable for ground floor commercial, retail, community and leisure uses Springbank Sector Ask yteses Hot Pool Fiddler's Green IN Princess Elizabeth W GCHQ Telsion Man (Inclusion) 84003 Figure 2 The Golden Valley Development Masterplan Framework - this is an illustrative framework and not a Lane © Crown copyright and database rights [2019] Ordnance Survey 0100031673 blueprint for development (see also development capacity informaton in Appendix A4)

AAO

2.3 Key benefits to the wider area

2.3.1 A key objective of The Golden Valley Development Framework Masterplan is to deliver a range of benefits to the wider community and existing residents in the West Cheltenham area. Responding to each of the identified objectives which are addressed in turn in the following sections, the lists below highlight some of the key wider community benefits and improvements that will be made as The Golden Valley Development is delivered:

Objective A - Sustainability

- 2.3.2 Infrastructure investment to make the local area more resilient and improve air quality across the local area
 - Measures to help manage local flood risk which benefits the wider community
 - Ecological net gains which will benefit all residents in the wider area
 - Provision of new open spaces and community facilities which are accessible to all existing residents
 - A new integrated mixed community which is integrated with existing neighbourhoods
 - Improvements to local public transport facilities, including improved links to Cheltenham Spa station
 - Potential for lower energy bills for residents as a result of ambitious investment in net carbon zero plans for development on the site.

Objective B - Land uses and activities

- New community facilities to complement existing local provision and open to the existing community
- New leisure and community services, accessible to existing local residents
- A new local centre to support local community life without undermining but supporting existing local facilities
- Significant new jobs created in this growth sector and inspiration to future generations seeking to address the current levels of deprivation in surrounding areas

- Wider benefits to help strengthen the local supply chain
- Increased local spend will benefit the local economy including potential investment in Coronation Square
- Strengthening links with local education providers to offer improved choices and enhanced facilities to local people in education

Objective C - Landscape

- Extensions to local open spaces
- Creation of a new network of landscape spaces, open to all with high connectivity across the new network of public spaces
- New allotments to help meet increased needs
- New sports facilities
- Enhancements to local biodiversity
- Innovative solutions to reducing flood risk to downstream areas and what opportunities the development may be able to offer the local area from all flooding sources such as sewer or ordinary watercourse flooding

Objective D - Movement

- New street network will ensure new facilities are fully integrated with and connected to existing communities
- Expansive network of connected pedestrian and cycle routes and paths
- Improved access to Cheltenham Station and the town centre
- Expansion of and improvements to local bus services and network
- Opportunities for existing local people to gain access to bicycle and car hire schemes



3 Embracing the highest standards of sustainability

3.1 Introduction

- 3.1.1 Alongside many of its partners, Cheltenham Borough Council and Tewkesbury Borough Council have declared a climate emergency and are committed to making their boroughs carbon neutral by 2030.
- 3.1.2 Strategic developments of this scale and nature present unique opportunities to deliver an exemplar development in sustainability, which form catalysts for surrounding communities and even opportunities to retrofit existing homes.
- 3.1.3 Supported and served by completely new site infrastructure, the Golden Valley Development will help demonstrate the far reaching and longterm benefits of planning positively for more sustainable patterns of living and working. The application of smart technologies will have a central role to play in meeting public pledges made to carbon reduction.
- 3.1.4 The sustainability strategy for The Golden Valley Development is formed of five key themes, within which we outline both the aspiration and several key opportunities specific to the site.
 - Resource efficiency
 - Resilience
 - Connection to nature
 - Community and culture
 - Mobility
- 3.1.5 The principles outlined below cover some of the core issues associated with delivering sustainable development and environmental resilience, but all the principles outlined in this SPD have an important role to play in delivering sustainable, carbon neutral, growth which takes proper account of the current climate emergency.
- 3.1.6 Development proposals will be assessed against the following key principles to ensure new proposals within the Golden Valley Development meet this objective. Delivering against this objective will require long term prioritisation of this issue. This action might require the prioritisation of delivery objectives.

The adjacent plan is numbered to highlight some of the key points of the sustainability strategy for the Golden Valley Development, as follows:

- 1 Site-wide sustainable water conservation and management strategy, including sustainable drainage measures, attenuation areas and technologies to reduce water consumption.
- 2 New development which implements zero/low carbon technologies, delivering buildings with low energy and water demands.
- **3** A permeable network of streets and lanes, which respects existing Public Rights of Way, to help to encourage active and sustainable travel choices.
- 4 Direct pedestrian and cycle connections with immediately adjacent neighbourhoods to help ensure integration and facilitate regeneration.
- **5** Delivery of essential community infrastructure to meet the needs of a growing population.
- 6 A mixed use new community delivering a balance of new jobs and homes.
- 7 Integration of retail, services and community uses that help meet the daily local needs of residents, workers and visitors
- 8 Extension of local allotments and other climate resilient multifunctional blue and green infrastructure which act as an increasingly important ecological and social/community resource.
- **9** Consider off-site effects from traffic accessing and egressing sites to ensure air quality remains within acceptable levels.

Smart Cities

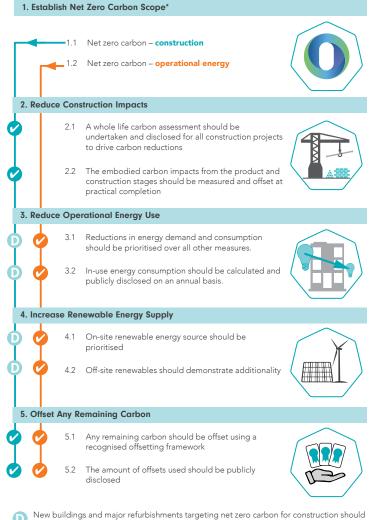
- 3.1.7 Smart city principles will underpin the planning and delivery of the Golden Valley Development. However, this will present challenges and conflicts given the rapidly evolving thinking around the provision of smart infrastructure. These conflicts must be managed and risks identified including timescale and viability considerations for implementation.
- 3.1.8 Therefore the approach within this SPD and masterplan framework is to ensure that infrastructure which is to be delivered from the start of the scheme is done so on the basis of applying smart place thinking and smart place planning. In practical terms this means streets and buildings being well designed at detailed planning stages to ensure that they can support smart technologies as they evolve.
- 3.1.9 See the box on Page 19 below for more reflections on how the principles of Smart Cities could be applied in The Golden Valley Development.



3.2 Key sustainability principles

A1. Resource efficiency: New development at the Golden Valley Development will be net carbon zero (or better) and an exemplar in water and energy conservation and waste management, employing the highest standards of environmental sustainability. Development will take proper account of air quality issues

- Low or zero carbon (LZC) technologies will be installed throughout the site, at both at individual plot and community level (see Figure 4 for guidance on steps to achieve a net zero carbon building). Creating decentralised community energy centres for heat and power will add to a sense of social participation and responsible energy management, as well as offering an opportunity for cheaper, greener energy.
- Technologies such as solar PV, wind, waste to energy, solar thermal and heat pumps (air, water, ground-source) will all have a role to play. The use of active network management tools alongside these technologies will enable the energy-user to control how their energy is used and when. Whilst this up-front investment carry a financial cost, it will help to reduce long term development cost and will help future proof the scheme as a whole. Opportunities to retrofit and expand schemes into neighbouring communities should also be explored.
- Site-wide masterplanning will take account of opportunities to maximise solar/wind potential whilst minimising wider detrimental impact to views and conflicts with existing landscape assets.
- An integrated strategy incorporating renewable technologies, energy storage and smart metering/ controls will be required. The implementation of an on-site smart-grid will be pivotal in delivering an infrastructure strategy that minimises energy use and positively contributes to decarbonising and decentralising the energy networks.
- Waste management forms a key part of Gloucestershire planning policy and is contained within its Waste Core Strategy (as well as JCS Policy SD3). The scheme will adopt the principles of the waste hierarchy by minimising waste and promoting material recovery of any construction and demolition waste. Re-use of materials, use of locally sourced materials and use of innovative recycled materials during construction should all contribute to a carbon neutral development and will be considered at the application stage.



- be designed to achieve net zero carbon for operational energy by considering these principles.
- * Please also note, a further scope for net zero whole life carbon (1.3) will be developed in the future.

Figure 4 Steps to Achieving a Net Zero Carbon Building, from Net Zero Carbon Building - A Framework Definition by the UK Green Building Council (UKGBC 2019).

• In operational terms development will prioritise waste prevention, re-use, recycle, recovery and disposal only as a last resort. Early engagement with Cheltenham and Tewkesbury Councils waste service UBICO will be essential to collaboratively develop effective solutions for waste minimisation and efficiency in disposal. The overall aim should be striving to achieve zero avoidable waste (aligned with government's target of achieving this by 2050). Smart city technology can be utilised in a number of ways in relation to waste such as the introduction of 'asset tagging' to new digital sharing platforms that connect producers of 'end-of-(current) life' materials with potential new users

Smart City principles: Opportunities in The Golden Valley Development

The application of 'Smart City' principles, utilising information technology in the design and management of our cities, towns and villages, offers potentially revolutionary opportunities to improve the efficiency and effectiveness in the delivery of public services and utilities.

The potential to deliver benefits from applying new technologies to existing and planned neighbourhoods and communities should be fully explored with the relevant authorities. These benefits could include but should not be limited to:

- Incorporating measure of reducing energy consumption in buildings: Buildings will be built to high energy efficiency standards to reduce the need to heating/cooling. In addition, new development will be encouraged to employ smart heating and ventilation systems which use IT to help reduce unnecessary heating and cooling processes.
- Introducing measures for on-site electricity generation: This will help to reduce energy costs for those in the area, including existing residents in adjacent neighbourhoods. Working with existing housing agencies in both the management of existing stock and the provision and management of new dwellings, smart technologies, potentially designed into new buildings from the outset, can help to move new development towards the Councils' net zero carbon targets.
- **Providing live information on public transport services:** Cheltenham town centre already benefits from the provision of live travel information at bus stops, but expanding these measures to surrounding areas will help reduce waiting times, increase revenues for operators, and help support the shift towards more sustainable modes of transport.

- Introducing smart approaches to storing, collecting and processing waste: Smart waste collection solutions (such as underground bins that can deliver smart refuse collections and efficiencies) are being developed by waste management companies to improve efficiency of waste collection services. They are based on a network of sensors - acting as fill gauges and identification chips installed on waste containers. The approach gives those involved - the collection operator and local policy makers
 the possibility of anticipating new economic models, including individual incentive pricing that benefits all the parties concerned and users in particular. The benefits are potentially wide ranging, but will help to optimise sorting practices, particularly among the public, and, ultimately, will reduce the volume of waste overall.
- **Creation of a digital twin:** A visualisation model of the site that can assist in the customisation of the housing product which may link with modern methods of construction. There is scope for this technology to also support the capturing of data flows from smart infrastructure and associated revenue streams to help to maintain and manage the site via a management company.



Figure 5 A smart city is a designation given to a city that incorporates information and communication technologies (ICT) to enhance the quality and performance of urban services ©AESG, 2019 and underground bins that can deliver smart refuse collections and efficiencies".

- The principles of the circular economy and achieving clean growth should be embedded in all new development at both the individual site and community-scales. Evidence of how high levels of resource efficiency, waste avoidance and lowcarbon solutions will be secured must be provided, particularly in respect of its consideration at the concept and design stage. Furthermore, the carrying out of ongoing and sustainable resource efficient practices that include support for the sharing economy and, where appropriate, industrial symbiosis will aid the delivery of effective high quality waste and recycling services throughout the lifetime of development.
- The adjacent Hayden Sewage Treatment Works could provide opportunities in terms of waste heat or energy production. However, as this site is being earmarked for a future phase of development, decisions regarding further investment in this facility will need to be taken in view of the facility's potential future relocation.
- Air quality is an issue in West Cheltenham due largely to pollution from road vehicles. New development will need to consider off-site effects from traffic accessing and egressing sites through an existing area of poor air quality to ensure air quality remains within acceptable levels. (please see appendix for details of actual levels and location of existing air quality issues).



Figure 6 The "Triangle" by Glenn Howells Architects was supported by the Government's Low Carbon Investment Fund. Homes have bicycle storage built in to the front canopy of each house

A2. Resilience: The design of new buildings, streets, open spaces and other required infrastructure will ensure new development is resilient in terms of flooding and overheating

- Minimise the risk of flooding through the incorporation of sustainable drainage measures. This will include the provision of street trees, landscape verges including swales and the use of permeable surfaces. This thinking should extend across all scales, from how surface water is managed as it moves across the site to how rainwater and greywater could be harvested and reused to reduce the site's environmental footprint, whilst also considering effects of climate change.
- Careful development of building form and position of glazing in response to orientation is required. Minimising the solar exposure of south and west facing glazed elements reduces risk of overheating during summer months. Careful street planning and provision of external shading (including shading devices, balconies and facade articulation) will be used to limit solar exposure. The use of landscaping and green infrastructure features (green walls and roofs) should also be considered, especially where these can provide multifunctional benefits – for wildlife, improving air quality, alleviating thermal mass, reducing noise
- Increasing the provision of blue and green infrastructure and proximity to green space and large water bodies (within 100m radius) reduces the localised impacts of heat island effect, absorbing less heat and stabilising temperatures during peak summer conditions.
- The landscape strategy outlined in this SPD for the site as a whole (see Objective C) has been devised in response to the topographic profile of the site, with locations identified for the provision of stormwater attenuation. The generous network of open spaces will play an important role in helping to manage surface water and reduce the risk of flooding across the new community.
- Flexibility in terms of how buildings and spaces might be used over the long term is a fundamental principle of sustainability. Developers will be asked to demonstrate how their proposals (buildings and spaces) have been designed to be flexible and capable of conversion, adaptation and reuse over the course of their life.

Sponge City principles: Opportunities in The Golden Valley Development

'Sponge cities' incorporate urban design that aims to reduce the risk of floods, by enabling environments to absorb water. In bringing development proposals forward for the site, the role played by green infrastructure in reducing the risk of flooding should be considered at every scale.

Large area of impervious hardstanding should not be provided within dwellings, parking courts and other areas for parking should employ permeable surfaces, streets design should incorporate sustainable drainage measures, the design of public open spaces and the wider network of green spaces which help to link neighbourhoods together should be designed to retain existing landscape features such as hedgerows and trees, with new trees and planted areas provided.

A3. Connection to nature: Development at the Golden Valley Development will enrich local ecology and biodiversity

- The provision of new, and management of existing, landscape areas and features across the entire site is one the most exciting aspects of the Golden Valley Development. These will include the provision of informal naturally landscaped spaces; new allotment spaces to meet both existing currently unmet and future demand; formal sports provision; and, new high quality and well managed flexible formal spaces which provide opportunities for meanwhile uses, events and other outdoor activities. Multifunctional green infrastructure is a key cross cutting theme that will help to deliver the sustainability aims of the masterplan.
- The site's biodiversity and ecology opportunities are of particular significance, with scope for collaborative working with key partners within the Gloucestershire Local Nature Partnership to deliver biodiversity net gain and environmental net gain. All principal public sector partners involved in bringing this site forward through the JCS have signed up to the Gloucestershire



Figure 7 Upton SuDS flood attenuation measures integrated into public space design

Within the wider green infrastructure network, appropriated sized water attenuation areas should be provided which are not in areas already liable to flood. These will provide, in the longer term, a valuable ecological resource.

Green Infrastructure Pledge. New development will be assessed against the Building with Nature Benchmark, against which this SPD itself has been assessed.

- Informed by an ecological assessment, development would be expected to respond positively to particular local key species and ensure the design approach helps to meet targets for their conservation.
- Working collaboratively with the Gloucestershire Local Nature Partnership, and particularly the Wildfowl and Wetlands Trust, the site presents a unique opportunity to support and foster birdlife in the context of the nearby Slimbridge Wetland Centre, developing a case study at a strategic scale that demonstrates transferable outcomes that can be used in the delivery of other strategic sites across Gloucestershire, regionally and nationally.

A4. Community and culture: The Golden Valley Development will mature into a thriving and mixed sustainable community, providing jobs, homes and community facilities for existing and new residents in a beautiful landscape setting

- The Golden Valley Development will, first and foremost, be a place for people. The Garden Community will provide a diverse range of environments including vibrant tech-based flexible workspaces, local community hubs serving new and nearby existing neighbourhoods and mixed residential neighbourhoods with a mix of housing types and tenures.
- A connected network of streets and lanes will ensure different districts and environments of the development are linked and fully integrated, the design of which helps to encourage active and sustainable patterns of movement.
- Whilst potential locations for new school premises are identified in the masterplan framework, additional financial contributions will be required through a S106 agreement towards provision of preschool and primary school places.
- The proposed new secondary school at Elms Park has been planned at a size to serve that housing development. Financial contributions will be required and additional land may be required within the SPD area to allow the secondary school to be planned at a larger size if necessary to meet increasing needs. However, timing and delivery of development will be critical and it may be necessary to provide additional places at All Saints Academy if the Elm Park development is not progressing to the same timescale. Higher educational needs will be met through institutions outside of the site, but there may be opportunities within Cyber Central UK for links with such organisations, either on site or through partnership relationships.
- Through ongoing liaison with health care providers and their relevant authorities, contributions towards additional health facilities will be required to ensure the health needs of new communities are adequately catered for. Services such as GP practices will be delivered either on or off-site to meet the needs of the new and existing population.



Figure 9 Precedents: Kingsbrook Aylesbury, Set a new benchmark for wildlife friendly housing development. 2,459 homes have been built on greenfield land, and designed so wildlife can move freely through the residential areas. Swift boxes are shown here, built into the roofs of new home



Figure 8 Flood management scheme

A5. Mobility: The Golden Valley Development will be an integrated and fully connected extension of west Cheltenham

- New development will be supported by infrastructure which helps to support local employees, visitors and residents to choose active and sustainable modes of travel. Electric bicycle and car hire facilities will be required in new development to meet the day-to-day needs of those who live in, work in and visit the area. New development will embrace new technologies in the rapidly evolving car and mobility sector. Car charging facilities will be made available to new residents and dwellings will be designed to take proper account of the space requirements of bicycle ownership for all occupiers.
- New smart street furniture provides the opportunity to help support the delivery of smart new technologies. Street lighting provides scope to improve the efficiency of street lighting as well as supporting other initiatives such as integrated CCTV, kinetic tiles, movement detection to support smart traffic management measures, air pollution detection and WiFi services.
- Connections to existing public transport infrastructure will be provided and contributions to the delivery of improvements to existing services will be required in line with the Emerging Gloucestershire Local Transport Plan. This will include improved cycle and walking linkages to Cheltenham Spa Railway Station, the expansion of existing bus services across the site, and the establishment of pedestrian and cycle linkages to immediately adjacent neighbourhoods, including the provision of safe routes to schools - both those provided within the development and those nearby planned or existing schools which will help to meet demand for school places from new development. The site is well placed to benefit from more strategic improvements in public transport between Cheltenham and Gloucester, including the ambition to bring forward a mass transit option. Development at The Golden Valley Development should take proper account of any such opportunities through the provision of interchange facilities as part of any such provision or other appropriate contributions.





Figure 10 Top: scooter hire is convenient and integrated into local neighbourhoods and, Bottom: electric vehicle car clubs

4 A vibrant and diverse range of uses and activities, serving existing and new communities

4.1 Introduction

- 4.1.1 In 2015 as part of its revised National Cyber Security Strategy, the UK government announced that it would be setting up two Cyber Innovation Centres, one in London and one in Cheltenham. The innovation centre will foster an increase in the number of UK companies able to grow their business to a critical mass and compete internationally.
- 4.1.2 Cyber Central UK aims to be the first of its kind in the UK – a unique location dedicated to the development of cyber technology research, skills, business and capability. It will be a integrated and inclusive community where people can live, work and play and enjoy excellent quality of life.
- 4.1.3 Cyber Central UK will be a world class campus that integrates high-tech work places and academic facilities with supporting facilities which will serve those who live and work in the area. New dwellings will offer a wide range of living options and will support a tenure mix that matches the needs of the workforce in Cyber Central UK and the town more widely.
- 4.1.4 The Cyber Innovation Centre will measure itself against other world class facilities such as the Cyberspark Campus in Israel which is combining military intelligence, academia and industry in one place, and leading examples of innovation buildings such as the Bright building at Manchester Science Park.
- 4.1.5 Cyber Central UK will be an exemplar of social and environmental sustainability which provides for the educational needs of the new community, enables healthy and active lifestyles and where mental and physical well-being is a priority. Once established, the site will host a connected community that functions 24/7 and is digitally, environmentally and socially responsive. The aspiration for the campus is to have net zero carbon homes and exemplary sustainability standards to help mitigate climate change.
- 4.1.6 The distribution of uses in the masterplan must have regard to the existing town and neighbouring communities and also the property market drivers which will underpin a successful and viable project. The Cheltenham area is already home to a dynamic and growing network of several hundred

The adjacent plan is numbered to highlight some of the key points of the land use strategy for the Golden Valley Development, as follows:

- Cyber Central UK an expansive mixed-use campus and clustering of business, enterprise, R&D and education activities within the cyber-tech sector.
- 2 Innovation Centre a state of the art shared, semi-public facility which acts as a hub for interaction, knowledge share and exchange and events for the cyber-tech community.
- 3 Integration of retail, services and community uses that help meet the daily local needs of residents, workers and visitors.
- 4 A mix of sites and locations which will provide wide ranging and flexible opportunities for inward investment - many of which may form part of the cyber-tech supply chain.
- 5 A number of attractive, beautifully landscaped neighbourhoods, each with their own character. These will provide a mixed and balanced range of residential accommodation and tenures, including affordable housing and housing for more specialists sectors.
- 6 A new primary school to help meet the education needs of a growing local population.
- 7 Open market employment spaces of varying sizes which will enjoy good access to the motorway network and provide new job opportunities for local people.

Cyber Technology Businesses, ranging from highly innovative start-ups to established international players such as BAE Systems, L3 TRL, Raytheon and many others.

4.1.7 The masterplan envisages a vibrant and diverse range of uses and activities which will serve both the existing and new communities. The range of uses will combine to deliver a successful Garden Community, making the best use of land to create vibrancy, local character, new facilities and services, integrated and accessible transport, innovative uses of technology and beautiful green spaces. Landscaping will draw on and complement the site's existing landscape elements and features to heighten 'sense of place'.



 $\mathbf{\hat{b}}$

Potential improvements to M5 J10 proposed

Higher density mixed use - Employment-led tech-sector, retail, leisure & community with residential Mid density mixed use - A balanced mix of residential, employment and other uses Mid density development - Housing-led garden communities Potential school - Primary school to serve new and adjacent neighbourhoods Cyber Central UK - Cluster of employment, retail, leisure and community activity B46434

(See also development capacity schedule, Appendix A4)

6

OLD GLOUCESTER ROAD

5

3

1

ciable's Green Lone

A40

Λ

Springbank

Heres Hotes

Princess Elizabeth W

Hayden

Golden Valley

BAbA3A

Figure 11 Land use concept plan - an illustrative framework and not a blueprint for developmen

BROBS

© Crown copyright and database rights [2019] Ordnance Survey 0100031673

GCHQ

Fiddler's Green

100

Telson Nov

Arle Court Roundabout Arle Court Park & Ride

4.2 Key mixed use principles

B1. Delivered in partnership, a high profile and state of the art 'Cyber Innovation Centre' will be the focal point of the Golden Valley Development

- The Innovation Centre and the surrounding campus will provide comprehensive infrastructure to support and foster the cyber tech industry, providing an open and welcoming environment where collaboration, research and innovation takes place. This would include:
- A variety of flexible workspaces and R&D facilities to accommodate growing businesses through their lifecycle from hot-desking to standalone buildings;
- Links with universities, education, and skills programmes such as the University of Gloucestershire, Gloucestershire College, C11 Berkeley, Universities of Bristol, Cardiff and West of England and UTC Swindon;
- Support services such as business support, marketing, funding and legal advice;
- Digital and physical infrastructure that is futureproofed and upgradable;
- A place that promotes creativity and innovation through leading cultural and event programmes;
- State of the art facilities, landmark architecture and inspirational surroundings;

- An environmental exemplar including a mix of commercial, residential and amenity buildings in a green landscape; and
- A new centre at the heart of the cyber tech network with direct links with existing cyber tech business networks including CyNAM and their Hub8 co-working space in Cheltenham town centre.
- Delivery of the Cyber Innovation Centre will require a committed partnership between business and the public sector. A dedicated organisational structure and operational model will be devised to drive forward the vision and provide leadership and the management and operational expertise to represent the key interests. These are envisaged to include Government agencies, local authorities, universities and educators, SMEs and industry, leisure and retail providers and local communities.



Figure 12 Employment and learning uses with active retail frontages at ground floor at Westworks, part of the White City campus (Allies and Morrison)

B2. 45Ha of mixed-use employment land, focussed around the Cyber Central UK hub, will provide flexible business space, hotels, retail and leisure provision and cultural and community uses to serve the local community and wider region

- Cyber Central UK proposal has the scale to deliver circa 2m square feet of commercial space on 45 hectares supporting circa 7,500 jobs. This critical mass of employment land will enable the cyber tech cluster to develop adjacent to GCHQ and offer a range of property types to support business through their growth lifecycle. Spaces should be flexible and adaptable so uses can grow, adapt and extend, with a mixture of leases to encourage a range of businesses.
- Cyber Central UK will be highly connected, physically, digitally and socially. Cyber Central UK will have access to the best digital infrastructure available to support the development and incubation of cyber enterprise. The development is perfectly located to take advantage of the UK's high capacity fibre network, providing completely secure, ultrahigh-speed and unlimited fibre connectivity to the site.
- Beyond the Cyber Innovation Centre, Cyber Central UK will be a mixed-use zone with a focus of commercial, community, leisure and residential uses, located centrally to best serve existing and new communities, all served by a high quality and flexible public realm.
- Cyber Central UK will serve a vibrant and thriving community located within a beautiful, multifunctional and highly connected landscape setting. The hub would be open and active at all times of the day and throughout the week and would host significant events and cultural facilities designed to attract the broadest range of users and visitors

- With access to the site being radically improved through the planned improvements to Junction 10 of the M5, the main street axis through the site will provide opportunity for a wide range of uses and activities which would benefit from prominent and accessible locations.
- A new primary school will be required to serve the new residential community and potentially the wider area. The new school should be designed to ensure community access to shared facilities.
- Secondary school capacity will be met by existing nearby schools and a planned new secondary school north of the site.
- Community services such as GP practices will be delivered to meet the needs of the new and existing population.

B3. A sustainable and deliverable range of housing tenures, including affordable housing and self-build, to meet local needs supported by community infrastructure

- New housing will need to address local needs and contribute to the creation of mixed and balanced sustainable communities. This means providing sufficient housing of the right sizes, types and mix to meet current and future needs as The Golden Valley Development evolves over the delivery period. The aspiration is for these homes to be net zero carbon.
- Delivering a mix of market tenures, from market sale to market rent, will underpin the economic viability of the development. In particular, market tenures will play a critical role in meeting the potential housing needs of younger professionals who will be attracted by the employment opportunities in new and emerging technologies, the ambitious vision of the area, the range of supporting infrastructure and the quality of the environment being created. The delivery of market rent housing has the potential to meet growing demand for this form of housing which is being supported by institutional investors.
- There will be a range of living space responding to the needs of the cyber tech start-up community. This should include co-living (shared apartments designed for new graduates), build to rent housing and apartments, self-build parcels, live/work space and affordable (with tenure blind design) and key worker housing for employees. To support the concept of a small self-build community local self-build groups will be invited to support the developing Planning and Delivery Strategy.
- The Housing Investment Strategy will see Cheltenham Borough Council take a leading role in bringing forward high quality and affordable homes offering different tenures. New housing development will need to meet the requirements of current policy regarding affordable housing including levels of provision (35% within JCS Policy SD12) and tenure blind distribution throughout the site. Affordable housing is also expected to contribute towards meeting the identified housing needs as outlined in the relevant Local Housing Needs Assessment.
- New communities will be supported by the provision of social infrastructure and community uses that help meet the daily local needs of residents, workers and visitors.





Figure 13 The Golden Valley Development will provide mixed housing types and tenures at a range of densities but in all cases building should positively address public realm and prioritise people over cars (Allies and Morrison)

B4. Higher densities and a range of dwelling typologies which make the best use of available land

- A key driver of the SPD is to increase densities in order to make the best use of land and deliver an exemplar development that creates a sense of community. The SPD promotes a flexible approach in terms of the type of housing provided. Apartments, stacked maisonettes and other forms of higher density housing will have a role to play in helping to ensure Cyber Central UK is supported by an appropriate housing mix and housing densities.
- The straegic masterplanning that has informed this SPD has enabled more detailed assessment on the efficient use of land, including expanding mixed uses and testing densities. The methodology that has informed this is set out in Appendix A4. Detailed masterplanning at the development management stage will further test the density approach.



- The planning authority and its partners will support the delivery of higher density development to help meet the strategic objectives of the JCS. Both Cheltenham and Tewkesbury Borough Councils support the focus on making the very best use of the land within the area in a way that delivers high quality homes.
- The development proposals are expected to facilitate higher densities through measures which will include:
 - The use of innovative housing and mixed typologies, especially in the southern area including mixed use buildings with apartments over other ground floor uses;
 - Densities in the west of the site are expected to go above 'conventional' housing densities that might otherwise be built on a rural edge in light of the potential future development of the safeguarded land (HSTW) – see Appendix A3;
 - New development should learn from local and national precedents which demonstrate how successful higher density development can work alongside Garden Community objectives – see Section 7.2; and
 - Areas within Cyber Central UK and along the main street axis will be designed to foster the establishment of mixed use environments with a higher proportion of apartments and smaller unit sizes.
 - New development in the immediate context of existing neighbourhoods will need to sensitively mediate with the existing scale (see Section 7.2).

Figure 14 Employment buildings that sit comfortably within a mixed use setting in Earlsfield, London (Allies and Morrison)

5 Working with the natural landscape and its features

5.1 Introduction

- 5.1.1 The Masterplan framework for The Golden Valley Development SPD takes a 'landscape first' approach to site planning. This means that existing assets within the site such as waterways, trees and hedgerows are incorporated into the planning of site wide green and blue infrastructure and new public spaces.
- 5.1.2 The overall strategy proposes an inter-linked network of natural, semi natural and more formal open spaces that together form connected routes through the site, between existing and new communities, and to the countryside beyond. These spaces will be designed to support the social, environmental and ecological objectives contained within this document. Further work with Gloucestershire Local Nature Partnership (LNP) will help to define the approach at the detailed design stage.
- 5.1.3 It is important to cross reference the adjacent landscape concept plan (Figure 16) with the constraints plan (see appendix). This help explains the extent and location of some of the open spaces which are often defined by constraints such as flooding, existing trees and hedgerows and watercourses. One large open space is located under the existing power lines. However, there is a long term ambition to bury the power lines, in which case further detailed design work would be required to review opportunities to ensure best use is made of the affected land.
- 5.1.4 The following principles have shaped the landscape strategy and will need to be met when delivering growth in west Cheltenham:

The adjacent plan is numbered to highlight key points of the green and blue infrastructure strategy. The strategy for the Golden Valley Development should:

- Retain existing landscape assets including hedgerows, trees and water bodies which will help to inform the design of a multifunctional and connected green and blue infrastructure network. Retain existing hedges along boundaries such as along Old Gloucester Road and the eastern edge along Fiddler's Green Lane where possible.
- 2 Integrate a site-wide SuDS strategy that is informed by the existing topography, geology and soils. SuDS features that maximise amenity, habitat and follow good design guidance will be delivered.
- 3 Integrate strategic ecological corridors and create and connect a diversity of habitats through the site. These strategic ecological corridors are those running from outside the site directly into and across it, connecting with the adjacent area. Opportunities for habitat creation will be integrated at all scales from site wide, to the design of development layouts, public spaces, streetscapes, and buildings. To include nature reserves
- 4 Create pedestrian and cycle connectivity with existing communities and facilities in West Cheltenham. To include the integration and expansion of PRoW and the promotion of nearby regional and local cycle routes. New and existing routes to be landscaped to provide comfortable, climate resilient microclimates for users through the seasons.
- 5 Establish a food strategy to enable food growing and foraging across the site. The Terry Ashdown allotments will be expanded for new and existing residents, alongside community orchards. Land will be safeguarded with statutory protection to ensure long term demand for allotments can be accommodated
- 6 Create a network of new public spaces incorporating climate resilient green infrastructure that each create a focal point for a new neighbourhood, or form a connection between existing residents and the emerging community
- Provide sports and recreational opportunities and a quantum of space typologies in line with CBC/TBC Open Space Policy and Sport England's Active Design Guidance. This may make use of some space under the existing power lines. However, there is a long term ambition to bury the power lines, in which case further detailed design work would be required to review opportunities to ensure best use is made of the affected land.
- 8 Create a formal and flexible space which creates a focus within Cyber Central UK. This space will present opportunities for a wide range of events and activities. Meadow habitats that currently exist here will be re-provided elsewhere.





Figure 17 The scale of the Golden Valley Development will present opportunities to nurture a wide range of landscapes, including wildflower planting



Figure 18 Natural areas will be designed to be accessible to all such as in North West Cambridge. Attenuation spaces with a natural character incorporated within a country park (AECOM)



Figure 19 Integrating planting into pedestrian routes as in Aspen Way, London



Figure 20 Hard landscaped areas within The Golden Valley Development hub will be designed to offer flexibility for a range of activities and events



Figure 21 Tree avenues and planting form soft edges to development areas, with informal leisure routes helping to link communities



Figure 22 **Permeable surfacing and planting is possible even on busier streets such as along Passeig St Joan, Barcelona**

5.2 Key landscape principles

C1. Development must positively integrate existing landscape assets, ecology and features and use these features to inform the development of a highly connective green and blue infrastructure network for the site

- Existing assets will be considered early in the design process and integrated within development proposals. This approach must also acknowledge that the sites green and blue infrastructure fits seamlessly within the green and blue infrastructure of the wider area and consider these points of integration.
- These natural assets will form the backbone of the landscape strategy and in doing so, play a key role in defining the size, location, boundaries and extent of proposed development parcels.
- Proposals must deliver biodiversity net gain to help diversify and enhance the existing landscape.
- Informed by an ecological assessment, development would be expected to respond positively to particular local key species and ensure the design approach helps to meet targets for their conservation.
- Assets to be retained and enhanced where possible include;
 - The network of hawthorn hedges and hedgerow trees centrally within the site and along the boundaries
 - Mature and veteran trees and woodland
 - Existing streams, ditches and water bodies, including culverted watercourses to be opened up where possible to help increase their ecological value.

C2. Proposals should respond to views into and out of the site and react to the existing topography and strategic landscape character

- Proposals need to respond to strategic opportunities to create visual and ecological connection with/to the wider landscape and countryside.
- Long views to the Cotswolds AONB and Hayden Hill need to be carefully considered during the design of the location and layout of open spaces and built development
- Proposals will need to consider the impact of built form/massing/roofscape/layout on views both in and out of the site. Proposals should also consider how best to use landscaping to reduce the heat island effect, create shade, improve air quality and help to screen acoustic disturbance.
- The topography of the site will influence the location of routes which traverse the topography and work with the fall of the land, creating views from existing and proposed public open spaces.
- At a more local scale, the network of hawthorn hedges and hedgerow trees give the impression of a well treed landscape and provide good visual containment and screen views to some areas in the wider landscape.



Figure 23 The integration of soft landscaped spaces within the street scene alongside cycle routes and pavements



Figure 24 Existing long views west from the site (Allies and Morrison)

C3. Proposals shall include a network of public spaces to meet local open space requirements

- Existing spaces at Springbank and Hester's Way will be considered in the planning of the location of new spaces and connections, noting Pilgrove Way playground, Henley Road open space, Elm Farm open space and the Terry Ashdown allotments in particular.
- New spaces will be overlooked by new development to improve surveillance and community ownership of spaces.
- Figure 25 sets out the range of typologies of formal and more natural open spaces which will need to be accommodated within any future detailed masterplan for The Golden Valley Development. This will include a complete spectrum of managed spaces to more natural areas which will feel more like part of the wider countryside. Work with Gloucestershire Local Nature Partnership (LNP) will help define this range.
- Public spaces must be accessible and include areas of seating, shade and accessible paths in order that the widest range of the community is able to enjoy new spaces. Other elements including benches and toilets close to playing areas and in parks will also help to make spaces user-friendly for a wide range of the public including young families and older people. Dementia-friendly design methods for public greenspace should also be taken into account.

- In line with both borough's open space and sports standards, at a minimum the open spaces will provide a range of amenity spaces (2.91ha), natural and semi-natural spaces (0.61 ha), parks and garden (1.49ha), play spaces for children and young people (0.10ha), and sports facilities including 1 adult football pitch and 1 youth football pitch.
- Allotments will also be provided to serve the new population (0.63ha) alongside reallocation of statutory allotments to meet future demands currently allocated elsewhere in Cheltenham.
- Constraints to built development such as the 15m clearance distances to overhead power cables which create areas of open space which must be carefully integrated within the masterplan (see National Grid provides guidelines for development https://www.nationalgridet. com/document/130626/download). There is an ambition, if viable to ground the power lines, in which case, further detailed design work would be required to review opportunities in this area.
- The masterplan shall integrate green and blue infrastructure proposals in order to achieve Design accreditation, with a view to achieving full accreditation ('Excellent') upon delivery to exceed the statutory minima for green infrastructure.



Figure 25 All of the above types of formal and more natural open spaces will need to be accommodated within any future detailed masterplan for the Golden Valley Development. The spectrum illustrates how open spaces across the site will vary in the extent to which they are managed. The spaces which are most intensively used by the public will often requite the most maintenance, whist spaces which are intended as natural or wildlife spaces will feel more like part of the wider countryside, left as wilder spaces for nature and wildlife (Allies and Morrison)



C4. A high quality new public space will be provided at the gateway of Cyber Central UK which will be designed to provide flexible spaces for events and activity

- The quality of the landscape at Cyber Central UK will be a distinguishing factor that makes this development exemplary.
- A formal space will provide a distinctive, high quality and stand-out address around which new buildings will cluster alongside the new Innovation Centre.
- This flexible space will create spaces for community events, provide spill out opportunities for the bars and cafes to serve the surrounding neighbourhood, working with existing water features across this part of the site.

C5. New development should take a creative approach to sustainable drainage to reduce the long-term risk of flooding

- Surface water drainage will need to be planned at a site-wide scale alongside the planned green infrastructure and network of routes to maximise the amenity and ecological potential of the site.
 Fluvial flood risk will also need to be taken into account at relevant points within the site.
- It must be a multifunctional asset that has amenity, ecological and educational value, whilst improving the quality of water in the public realm and therefore the wider hydrological catchment. There will be an exemplary approach to the use of wetland habitats, sustainable drainage and rainwater gardens. Opening up or re-profiling channels where possible will help to increase their ecological value.
- The masterplan promotes 'Sponge City' principles, where the development is part of a permeable system that allows water to filter through the ground and be absorbed to be re-used within the area (see Section 3.2). Interconnected green spaces, green roofs, porous surfaces and water recycling methods should all be considered to contribute to this system. In this way, residential properties can play an important role in rainwater recycling for grey-water as part of the overall SuDS strategy (Utrecht's 'No Roofs Unused' policy is a useful case study).

- Locations for attenuation water storage are shown indicatively on the masterplan (labelled 2 on Figure 16), which need to be downslope of the proposed development parcels within each catchment (please see the appendix for more technical detail).
- Development proposals should demonstrate that the estimated consumption of wholesome water per dwelling is calculated in accordance with the methodology in the water efficiency calculator, should not exceed 110 litres/person/day.

C6. Development should promote and deliver a strategy for new tree planting and retention of existing trees

- A tree planting strategy will help support ecological, water management, food production and broader environmental and design aspirations.
- The strategy should primarily comprise ecologically appropriate native species, and should mimic natural processes to result in a diversity of species, size and age, where some natural regeneration may be appropriate alongside planting. Street planting should include a diversity of species appropriate to the location, integrate with SuDS, and should be sited and cared for in a way that promotes their good health.
- The scheme will procure trees sourced and grown in the UK, or otherwise from nurseries with sound biosecurity measures such as quarantine, to help avoid the spread of disease
- The aspiration for a Community Woodland covering the whole of the site will help to drive this ambition. The potential for the development to achieve 30% canopy cover across the whole site shall be evaluated at the start of the masterplanning process and a % aim agreed with the LPA. Canopy cover aims shall be taken forward as part of the green and blue infrastructure strategy.
- The scheme should follow BS:5837, and for ancient and veteran trees, the Root Protection Area should be 15 times the diameter or five metres beyond the crown, whichever is greater.
- Any new hedgerows will include hedgerow trees, and comprise a mix of native fruiting species to providing foraging opportunities for wildlife and people.

C7. The boundaries with existing communities, the wider countryside, the sewage works, and between phases of development shall be carefully planned and designed to maximise opportunities for physical, ecological and visual integration

- New development must respond positively along the edges where the masterplan area interfaces with existing homes, with a need for particularly high quality architecture and landscape provision.
- New landscape which is delivered to help respect the amenity of existing neighbourhoods should provide connections and shared facilities for all local residents. Landscape must not create leftover space or barriers.
- The Telstar Way entrance is the site's principal gateway and a high profile point of arrival. Architecture of the highest quality and street design with landscaping and tree planting will help to mediate between the character of new and existing places.
- This approach must consider the key points of ecological integration. There should be no barriers to ecological connections and the easy movement of key species.



Figure 26 Green rooves and the use of roofspace (Allies and Morrison)

C8. The development must promote a positive approach to local food growing through the adequate provision of allotments as part of a wider strategy to meet existing and future need

- The Terry Ashdown allotments will be expanded for new and existing residents, alongside community orchards. Allotments will also be provided to serve the new population (0.63ha) alongside reallocation of statutory allotments to meet future demands currently allocated elsewhere in Cheltenham.
- The location of new allotments and other food growing opportunities must be in accessible locations that could be tools to help build a sense of community.
- Opportunities should be explored to connect to existing food networks and initiatives such as community supported agriculture projects, Gloucestershire Food Strategy, Sustainable Food City principles as well as local food banks to help improve the supply and availability of fruit and vegetables locally. Smart city principles should be explored to expand the production and supply of food.
- The management of these spaces will need to be considered as a key part of the wider management strategy for the site and advice taken from organisations such as the Gloucestershire Orchard Trust.
- Allotment should be a key part of a wider strategy to enable food growing and foraging across the site. Other opportunities might include:
 - Private gardens and balconies and roof gardens to accommodate growing spaces
 - Shared community gardens and orchards.
 - Wilder and more natural spaces for foraging.

C9. Proposals will be devised with partners to develop and deliver an innovative public art programme

- The role and identity of any new public art will help to celebrate the natural setting and assets within the site.
- Opportunities for use in wayfinding and in helping to shape the identity of neighbourhoods within the overall area will be explored.
- This strategy will be considered in conjunction with informal playful spaces and the CBC Public Art strategy.
- Public art projects must also play a role in encouraging community participation and integration during the early build out phases together with helping to tie in cyber tech with everyday engagement of business users, residents and businesses.

C10. A management strategy shall be developed across the site to inform the design process and with consideration to longer term sustainability

- The strategy will be designed to plan and design for a low maintenance landscape, with reference to climate change and low resource inputs.
- The strategy will include the establishment of intended responsibilities and broad maintenance standards for the streetscape within residential areas and the cyber park, for parks and public spaces, growing spaces, sports facilities, and site wide green infrastructure.
- The streetscape design will be required to demonstrate that landscape and planting proposals have been fully coordinated with highways and drainage design.
- Discussions are required at an early stage to explore the potential for partnership working with charitable trusts such as the Woodland and Wetland Trusts. Setting up a Community Land Trust may be one possibility to help organise the management of spaces.
- Broad landscape management principles will need to be agreed with the Local Planning Authority early in the design process/at the pre-application stage.
- Any future planning application must include a detailed 25 year management and maintenance plan.



Figure 27 Public art precedents (Allies and Morrison)

6 An integrated and connected extension of West Cheltenham

6.1 Introduction

- 6.1.1 Cheltenham Borough Council's recently published Connecting Cheltenham report outlines an ambitious long-term strategy and delivery plan for transport in Cheltenham. In outlining a series of drivers for change, the strategy acknowledges that priority must be given to supporting more active, shared and sustainable modes of transport alongside the overriding need for streets to be attractive, pleasant and accessible for all. The Golden Valley Development provides a unique opportunity to demonstrate how the principles outlined in the Connecting Cheltenham strategy and the Emerging Gloucestershire Local Transport Plan can be delivered.
- 6.1.2 JCS Policy A7 West Cheltenham includes the requirement for new development to be integrated with the existing neighbourhoods and communities on the western side of Cheltenham. Fundamental to this objective is the delivery of physical connections which provide direct and safe routes between the development opportunities at the Golden Valley Development and the Springbank and Hester's Way neighbourhoods. Further afield it will also be important to ensure connections with Cheltenham Rail Station and the town centre beyond. Connections to other neighbouring communities including those at Hayden Hill will also be important. The site will be a place for people and local trips will be easily made by active and sustainable modes. Infrastructure provided through new development will ensure that it is attractive to make segments of longer trips (such as those by rail) on foot or by cycle.
- 6.1.3 Further, the development of the site for a new garden community strengthens the LEP's case for a mass transit system between Gloucester and Cheltenham as outlined in the draft Local Industrial Strategy. The feasibility work of this is now underway as part of the Gloucestershire Local Transport Plan.
- 6.1.4 The local highway network in the adjacent communities is characterised by roads which provide frontage access to housing, have high levels of on-street parking and provide traffic calming. The negative impact of potential traffic generation on these local roads as a result of the phased delivery of the Golden Valley Development is a particular concern for local people. Priority will be given to pedestrian, cycle and public transport connections which will encourage sustainable travel to and from the development whilst ensuring it is fully integrated into the existing community. The planned future £22 investment in the planned upgrade of the A40 will also help to make improvements in this

neighbourhood, which will be complemented by other improvements to local roads.

- 6.1.5 Sustainable travel will be encouraged between different uses on the site (i.e. residential and employment) and this will also assist with containing trips within the site. The creation of sustainable networks and priority bus measures will also encourage existing residents living locally to walk, cycle and travel by bus to the site for employment use. Development will ensure mobility impaired residents and site users will be catered for in the provision and design of transport infrastructure and services.
- 6.1.6 New development will help to deliver real behaviour change to tackle both local air quality and global climate change issues and the design will positively embrace and drive a modal shift from car use. In this regard, and to encourage sustainable travel and connect into wider sustainable travel initiatives, the development will tie in with and facilitate the measures set out in Connecting Cheltenham.
- 6.1.7 Through consultation on this SPD requests were made to include a phasing strategy. This has not been incorporated as a phasing strategy will be informed by a variety of decisions around land ownership and land release, development and infrastructure partners and more detailed master planning. However this SPD is clear in the earliest delivery of primary infrastructure which includes that delivering access and sustainable movement.

The adjacent plan is numbered to highlight some of the key points of the movement strategy for The Golden Valley Development, as follows:

- 1 Principal all modes vehicular junction to the site these are the primary first impression places, the gateways to the site. The quality of the environment here is of particular importance.
- 2 Subject to traffic modelling, the management of the main street through the site should give priority to bus and cycle movements to help prevent the route being used as a rat run.
- **3** Alignment of the main street is informed by existing below ground constraints.
- 4 Secondary vehicular access providing local access to an articulated early residential phase of development.
- **5** Potential bus gate access controlled bus-only access.
- 6 Opportunities to extend local bus routes to serve the site.
- 7 To ensure new development is integrated with existing communities, direct connection with and improvements to the pedestrian / cycle link between Springbank and Coronation Square will be delivered.
- 8 These routes illustrate how the masterplan can secure a network of pedestrian and cycle routes which are directly informed by the existing pattern of PRoW across the site.



6.2 Key movement principles

D1. The design and delivery of new development will prioritise and support active and sustainable travel patterns and behaviour – public transport

- The Golden Valley Development strengthens the case for new investment in radically improved public transport infrastructure linking Cheltenham and Gloucester along the A40 axis. Integration of or interchange with any such investment will radically improve connections to and from The Golden Valley Development.
- Existing bus services will be diverted through the site and frequencies increased to serve new residents and employees as well as improve services for existing residents. Bus services will need to be suitably phased to align with the delivery of development within the site. This will encourage a modal shift to public transport for existing and potential future residents. Scope for improved services include:
 - A potential for a rapid transit corridor along the A40 and improved links to nearby interchanges such as those important facilities at Arle Court Park and Ride.
 - A route to the town centre through Kingsditch and Springbank;
 - A route via GCHQ and Coronation Square to Cheltenham town centre;
 - A route to Wymans Brook, Swindon Village and Arle Farm; and
 - A route towards Churchdown and Gloucester.
 - Measures to deliver greater bus priority along Princess Elizabeth Way which will elp to improve existing and future service provision.
- Within the site itself, bus priority measures,
 supporting by smart technology, will be provided
 across the street network and beyond. In order
 to encourage the use of buses, the majority of
 residents should ideally be located within 200m
 of a bus stop with the remaining residents within
 400m. The location and route of these buses will
 be determined at the detailed design stage in
 partnership with operators.
- Opportunities to provide cleaner buses using ultralow emission models should also be provided to help address air quality issues.

• To mitigate against the threat of rat running on local streets, the use of bus gates (or similar) should be considered, particularly in the vicinity of Henley Road. Other traffic calming improvements to other local streets may need to be made in order to make them suitable for use by buses and for active travel.

D2. Deliver new direct pedestrian and cycle connections to existing communities and facilities

- The site sits at the apex of a corridor exhibiting the highest propensity for cycle use in the county, in terms of commuter trips and economic benefits, including the B4063 as a key cycling corridor to Gloucester. The site must capitalise upon this opportunity.
- New pedestrian and cycle connections will be created with existing routes and paths in neighbouring communities. These walking and cycling routes will be direct, safe, well lit, comfortable and attractive. This will help to ensure new development at The Golden Valley Development is fully integrated with its surroundings. The West Cheltenham Cycle and Walking improvement scheme should be referenced in making proposals to improve these more strategic connections.
- The following opportunities exist for the establishment of new pedestrian and cycle connections along the existing Golden Valley Development boundary which will ensure good linkages are established with Coronation Square, Springbank Community Centre, All Saints Academy, Gloucester College Hester's Way community centre, Cheltenham Station and Cheltenham town centre and other important local facilities and locations:
 - In the vicinity of Meadow Close, towards the southern end of Fiddler's Green Lane;
 - On the east-west axis of Niven Courtyard;
 - At the existing agricultural access point opposite Lazenby Court;
 - At the junction with Telstar Way;
 - South of Beverley Croft;
 - At the existing stile off Beverley Croft;
 - At Springbank Road open space;
 - Adjacent to the Terry Ashdown Allotments off Henley Road;
 - Opposite Gloucester Road to link with the existing foot and cycle path;



Figure 29 **Priority routes for bikes and buses in Walthamstow as part of the borough's Mini Holland scheme**



Figure 30 High quality public realm at junctions to slow traffic and promote pedestrian movement, Poynton



Figure 31 Safe and well overlooked cycle storage instead of car parking spaces encourages the use of bikes

- At the northern bend in Henley Road, either side of the pylons;
- Off Hope Orchard;
- Off Harry Yates Way at Wheatlands Drive; and
- At Pilgrove Way open space.
- Other points of pedestrian and cycle connections will be provided around the remainder of the site perimeter to take account of Public Rights of Way, footpaths and other desire lines.
- The site will have both commuter and leisure trails for cycling. Routes adjacent to main streets will have segregated walking and cycling infrastructure. A high quality of pedestrian / cycle infrastructure will be targeted. Where possible, this should meet or exceed optimum design guidance.
- Routes will need to accommodate provision for electric bikes (or low carbon alternatives), subject to legislation and these modes will need to be a key consideration within the design.
- The site will facilitate improved connections to Springbank and Hester's Way, Hayden Hill, Cheltenham Station and the town centre beyond, in accordance with the Connecting Cheltenham strategy. A continuous and high quality offcarriageway link to Cheltenham Rail Station will be provided linking to the site from the southern access and via Telstar Way and the A40. Signage and road marking improvements for cyclists will be considered within existing residential areas to further encourage and facilitate sustainable travel via direct routes.
- Fiddler's Green Lane will provide dedicated cycle connections towards Arle Court roundabout, the park and ride and areas to the south of the site, further strengthening the connections to the surrounding area.
- Opportunities to deliver a continuous cycle path and onward connection from Gloucester, through Cyber Central UK and Cheltenham and up to Bishops Cleeve should be explored. Potential links to Boddinton bridleway 25 Should also be explored.

D3. Creation of an open network of streets and routes which can be managed to meet local needs

- As endorsed through the Connecting Cheltenham strategy, successful places are connected, accessible and open places which are easy to find and easy to navigate. The phased delivery of development at The Golden Valley Development will establish a network of streets, walking and cycling routes which will ensure new development is fully integrated with, and not separated from, existing adjacent communities (connections for private vehicular will be limited subject to modelling).
- The delivery of fully integrated communities, connected in a straightforward manner by legible streets, will enable and support the wider long-term regeneration of the existing neighbourhoods of west Cheltenham.
- Development should generally take a perimeter block form resulting in a clear distinction between private and public space. To ensure walking and cycling movements are shortest and quickest, additional routes away from traffic will offer direct and attractive links between areas within the site.
- Conditions on existing local roads will be a key consideration. New routes will be aligned to provide direct connections to existing neighbourhoods.
 These routes will be managed to ensure the impact of new development on existing neighbourhoods is acceptable and to prevent 'rat running'.
- At an appropriate stage, a full and comprehensive Transport Assessment and Travel Plan will be required in support of the proposals, where transport strategies are developed and the cumulative impacts of the full site along with other committed and/or allocated sites are considered. The assessment will need to be scoped with all relevant authorities, with locations and methodologies agreed at that stage. The need (or not) for mitigation at any location is to be informed by the assessment results.
- Analysis tools such as Space Syntax or similar should be used to assess levels of connectivity and integration. The Transport for New Homes checklist may also be useful in this assessment.



D4. Delivery of a new 'main street' between Telstar Way and Old Gloucester Road, designed as a street for people, not a road for vehicles

- The site will accommodate a main street connecting Telstar Way for buses with the anticipated new road linking to an improved 'all directions' M5 Junction 10 to the north. The nature of this key piece of infrastructure through the site will play a very significant role in determining the character of The Golden Valley Development.
- This 'main street' will act as a rapid bus and active travel corridor through the site, and will not be a direct route through the site for private vehicles (subject to modelling), with mixed-use development providing frontage activity along its length.
- It will be designed for local access only for private vehicles to slow vehicle speeds through the site and encourage walking, cycling and public transport through the provision of footways, wide cycleways and bus priority measures along its length.
- Subject to detailed design and capacity constraints, the main street should be a single carriageway road with a design speed of 30mph and straight sections would be of a short length to assist in enforcing low vehicle speeds. Frontage activity and side junctions will also assist in reducing vehicle speeds. It would incorporate at-grade pedestrian crossings and bus stops with pull-in space.

D5. Principal junctions should be designed to minimise land take and create safe and direct crossing points for pedestrians and cycles

- The key junction at the southern end of the site will be designed to give priority to pedestrian and cyclist movements. The walking / cycling routes will continue onto Telstar Way and provide a continuous pedestrian / cycle link between and within the site and onto the A40 and the wider area.
- The key junction in the north of the site would tie into the proposed M5 J10 link road. The J10 link road is proposed as a dual carriageway and the site access could either be a roundabout or signalled junction. A roundabout would allow for a transition from single to dual carriageway, as well as acting as a traffic calming measure to slow vehicle speeds entering and exiting the site. Formal crossings will be provided on the key arms of the roundabout to facilitate crossing movements, although pedestrian and cyclist activity is likely to be lower at this location than at other accesses across the site.
- Where further vehicular access points are provided, priority will be given to walking and cycling movements. Further connections directly into the existing Hester's Way, Springbank and Hayden Hill areas will be provided to ensure the site is fully permeable and integrated into the existing community. These links will encourage walking, cycling and public transport.

D6. Provision of safe routes to schools, which will be provided within or beyond The Golden Valley Development site

- Safe routes to local schools will be delivered through the network of walking and cycling routes within the site and numerous connections to the existing areas. These routes will provide dedicated, safe, direct, overlooked and well-lit routes which connect externally to the Springbank Primary Academy, St Thomas More Primary School, All Saints Academy as well as the required new primary school within The Golden Valley Development site and the planned new secondary school at Elms Park to the north.
- Where access across main roads is required, good quality dedicated controlled crossings and other traffic calming methods will be required.

D7. A flexible and creative approach to the application of parking standards and emerging and new vehicle technologies and initiatives

- Attitudes towards car use and ownership are changing. Levels of car ownership, particularly for younger people, are generally falling and car hire services (car clubs) are becoming increasingly popular in built up areas. These changes are helping to reduce reliance on the private car and development at the Golden Valley will positively take account of the opportunities these trends raise. The wider climate change agenda and the need for permanent sustainable changes supported by central and local governments will mean that development must positively take account of such opportunities.
- The planning system, and the local authorities' response to planning applications submitted in response to this SPD, will need to respond to these rapid societal changes as plans are prepared and reviewed and as standards are revised. The special and unique nature and scale of the development at The Golden Valley Development provides an opportunity to take a fresh and bespoke approach to the application of parking standards, supported by a robust management regime.
- Flexible or innovative approaches to the provision of residential parking will be encouraged, including implementing unallocated parking onstreet parking, particularly in high density areas.
 Flexible/shared parking between employment and residential uses will be introduced to maximise the use of the same parking spaces during different periods of demand. This will help to ensure that development is more resilient to the ongoing changes in personal mobility and vehicle technology, thereby helping to future proof the long-term phased delivery of the development as a whole. Further work will be required at the detailed design stage to demonstrate how 'flexible' approaches are to be calculated or assessed.
- The development will be supported by good electric (ideally from renewable sources) bike and car charging facilities and hire schemes (subject to legislation). A cycle parking and hire scheme 'hub' will be provided to encourage cycling throughout

the site. It will be highly attractive to cycle within and around the site utilising the extensive network of dedicated routes.

- Provision of a decked parking structure will be supported within Cyber Central UK campus. This will provide parking capacity for the new employment uses and the wider development as a whole. Large expanses of surface parking will not be permitted. Car parks should be located to 'intercept' vehicles are they arrive to reduce the number of vehicles in the public ream. There is scope for this land to be used in an evolving way during the lifetime of the development given changes in technology. These larger car parks should be thought of as 'satellite multi-modal transport hubs' – with bus services stopping nearby, electric vehicle charging points, and cycle/ scooter hire opportunities, as well as car parking.
- Parking management measures such as Controlled Parking Zones and contractor parking strategies will be required to help protect local residents from the impacts of new development. This would reduce the attractiveness of travelling by car to workplaces and encourage and enhance sustainable travel behaviour.
- The SPD should look for innovative approaches to the delivery of goods and services and maximise the opportunity that green technologies provide such as e-cargo bikes, last-mile delivery or other ultra low emission alternatives. The government are currently running consultations on emerging technologies including pilot schemes for e-scooters.

7 Promoting the highest standards of design quality

7.1 Introduction

- 7.1.1 Although there is one overall vision for the Golden Valley Development, there will be a range of neighbourhoods within the area which should each have a distinctive local identity.
- 7.1.2 This section provides some specific design guidance about a number of site wide themes including densities, building typologies and developing locally distinctive places within the Golden Valley Development that are 'friendly relatives' of the regency built character of the town centre. High quality design will deliver good places in which people will want to live and work whilst also helping to regenerate adjacent neighbourhoods by addressing issues of deprivation and inclusion.
- 7.1.3 Principle E3 expands the description and zooms in to a number of key locations within the adjacent neighbourhoods to help communicate the varied character and identity within The Golden Valley Development. This guidance is set out within four themes; streets and movement; character and scale; landscape and public realm; and uses and activities. The Local Planning Authority will require design review to be built into the pre application and application process with appropriate time built into the process to allow recommendations to inform the detailed masterplanning process.
- 7.1.4 The adjacent plan is numbered to highlight some of the key neighbourhoods within The Golden Valley Development.

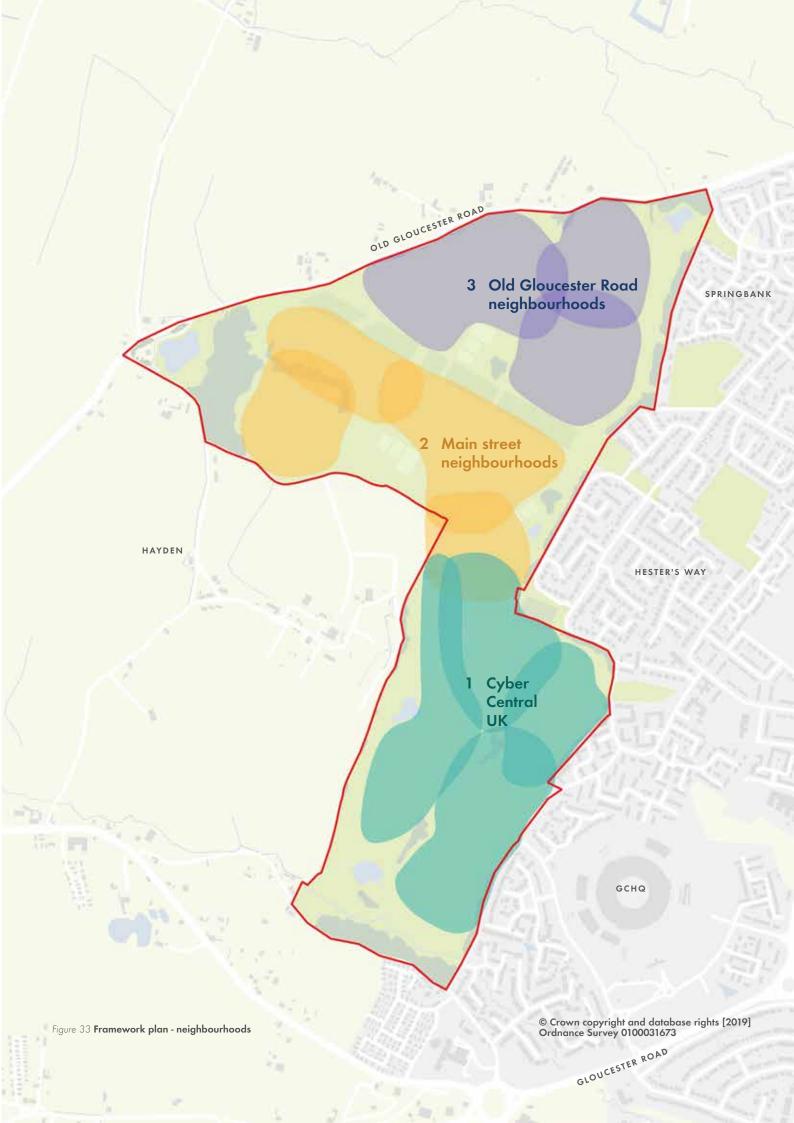
Cyber Central UK

Focus of the employment-led mixed-use zone with a strong physical relationship with GCHQ. Vibrant and thriving within a high-quality landscape setting dedicated to the development of cyber technology research. The Golden Valley Development neighbourhoods will form the heart of the community, with shops, a public square, leisure spaces and community uses

Main Street neighbourhoods

A collection of accessible smaller mixed residential neighbourhoods and employment areas along the main street through The Golden Valley Development

3 Old Gloucester Road neighbourhoods Mixed use residential neighbourhoods with shared community facilities including a new school and public open spaces for new and existing communities



7.2 Key character and placemaking principles

E1. New development will deliver a range of housing densities and typologies to ensure effective use of land is made

- 7.2.1 Releasing land from the Green Belt can only be done in exceptional circumstances. The case was made through the preparation of the JCS that the opportunity presented by The Golden Valley Development to deliver a new highly connected, diverse and mixed use sustainable garden community was an exceptional one. See appendix
- 7.2.2 To justify this position and ensure that the optimum use of land is made, housing typologies should be mixed to ensure there is a range of tenures and forms of housing to meet a wide range of needs.
- 7.2.3 The guidance provided below demonstrates the range of housing typologies considered to be appropriate for The Golden Valley Development. The densities outlined are higher than those found in the immediately adjoining neighbourhoods, but higher densities will help to ensure best use is made of the new infrastructure provided. New development will

need to take account of topography and views across the site, and meet internal space standards. Development in the immediate context of existing neighbourhoods will need to sensitively mediate with the existing scale. The aviation zone of Gloucestershire Airport will also need to be taken into account when considering the height of new buildings.

- 7.2.4 Within the best connected and most diverse areas, housing typologies that deliver higher densities will be most appropriate, including more apartments, stacked maisonettes, town and terraced houses. Other neighbourhoods further away from services will also need to deliver a range of higher densities through housing typologies including mews, terraces, town houses and semi-detached properties. Detached homes will be permissible within a self-build context.
- 7.2.5 Appendix A4 provides a summary of a more detailed assessment of development capacity of the allocated and safeguarded land (than that associated with the JCS).

	3) Old Gloucester Rd neighbourhood			1) The Golden Valley Development	
2) Main street neighbourhood dph					
20	30	40 5	0	60 70	80+
DETACHED HOUSES	SEMI-DETACHED HOUSES	MEWS HOUSES AND TERRACES	TERRACED HOUSES/TOWN HOUSES/FLATS	STACKED MAISONETTES/ FLATS	FLATS
Typically 2 storeys	Typically 2 - 3 storeys	Typically 2 - 3 storeys	Typically 2 - 4 storeys	Typically 4 - 5 storeys	Typically 4 - 7 storeys
None -					
Figure 34 Density and					

Figure 34 Density and typology spectrum

This spectrum illustrates the range of housing typologies and their likely densities which should be promoted within each of the neighbourhoods within The Golden Valley Development (Allies and Morrison)







Figure 35 Plans and photos of Goldsmith Street - diverse housing typologies, quality spaces and architecture (© Mikhail Riches)

Goldsmith Street, Norwich

The 2019 RIBA Stirling Prize winning residential scheme for Norwich City Council at Goldsmith Street provides a good practice precedent as a higher density, environmentally friendly Passivhaus, Council-led residential scheme of exceptional design quality:

Numbers:

- 45 houses and 60 flats
- 112 dwelling per hectare / 1.04 FAR density

Block types:

- Typically two storey houses with three storey roof popups and corner blocks
- Corner blocks consisting of flats with their own front door to the street, generous lobby for prams and bikes and private balconies.

Street widths:

- Typically 3.5m front gardens/space, 3.5m pavements, and 4m road (generally 12-14m front to front dimensions). Dimensions are tighter than allowed by policy but precedents from Norwich's historic terraced street typologies are used as precedents to justify local distinctiveness.
- On street parking conditions (2.5m parking with a smaller 1.5 pavement)

Character and open spaces:

- Secure and shared 'ginnels' between back gardens to encourage children to play together and a wide landscaped walkway within the street
- Materials to reference the city's history black roof pantiles, creamy clay bricks.
- Passivhaus standards, consideration of building orientation, sun shading and recessed windows.
- Only residential use no integration of employment or community spaces

E2. New development will look to local precedent in Cheltenham to help deliver locally distinctive forms of development

- 7.2.6 Cheltenham has a rich and diverse built character which provides exciting opportunities for contemporary architecture that does not slavishly copy its past. Opportunities should be taken to create sophisticated contemporary 'relatives' of the existing buildings and townscape.
- 7.2.7 There are a number of designated and nondesignated heritage assets within or near the site whose setting may be affected by any future development. Existing heritage assets will be acknowledged and respected by development.
- 7.2.8 Future planning applications should deliver high architectural quality that is 'of Cheltenham' using robust and locally distinctive materials that celebrate the special mix of Victorian and regency proportions in the town. Some examples from Cheltenham which set out a number of key learning points for The Golden Valley Development in terms of architectural quality and inflence are highlighted here (please see section D for guidance about street design/function):

Royal Crescent

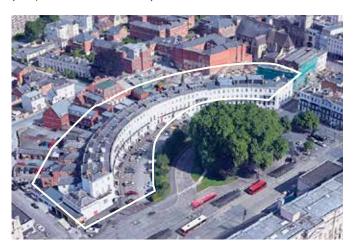
Numbers: 75 homes within 0.6ha = 125 dph **Description:** Grand regency crescent in the town centre. 3.5 to 4.5 storeys with half basements and some roof extensions.

Street widths: Half basements and grand entrance staircases provide set back space from street (around 2m). 3m pavements and 12m carriageway with on street chevron parking.

- Learning for The Golden Valley Development:
 A typology to deliver higher density development, but in a style that is 'of Cheltenham'
- A typology that is flexible and resilient and can be houses, apartments or offices.
- A precedent for restrained but consistent facade decoration and features including balconies, window proportions and materials.



Figure 36 A dense four storey typology with use of stone - a modern relation to the rhythm of the regency Cheltenham style (Bath, Alison Brooks Architects)





Victoria Place

Numbers: 55 homes within 0.74ha = 74dph
Description: Two storey Georgian terraced homes stepping up to larger houses at the end of the blocks, terraced and back to back gardens.
Street widths: 0-3m gardens, 1.5m pavements and 7.5 - 9m carriageway with on street parking.
12 - 18m building front to front.

Learning for The Golden Valley Development:

- Mixed use at the corners of blocks and some internal yards to incorporate employment spaces.
- Range in house sizes within a block narrow two bed terraced houses alongside larger double fronted homes.
- Narrower streets with on-street car parking to make best use of land and help increase densities.



Albert Street

Numbers: 110 homes within 1.11ha = 99dph Description: Very narrow Victorian two storey terraced homes with more prominent corner plots, alleyways for access at rear.

Street widths: No front gardens, 1.5m pavements and 6.5m carriageway with on street parking. 9 -12m building front to front. 3.5m alleyways at rear. **Learning for The Golden Valley Development:**

- Sustainable building typology due to efficient use of land and potential for well insulated forms.
- Bins and bikes are stored at rear and accessed via alleyways to reduce the overall street section.
- The character of the street is defined by the rhythm of the facade treatment.
- Homes were built with basements/cellars, many of which have been converted to living space.





7.3 Character studies

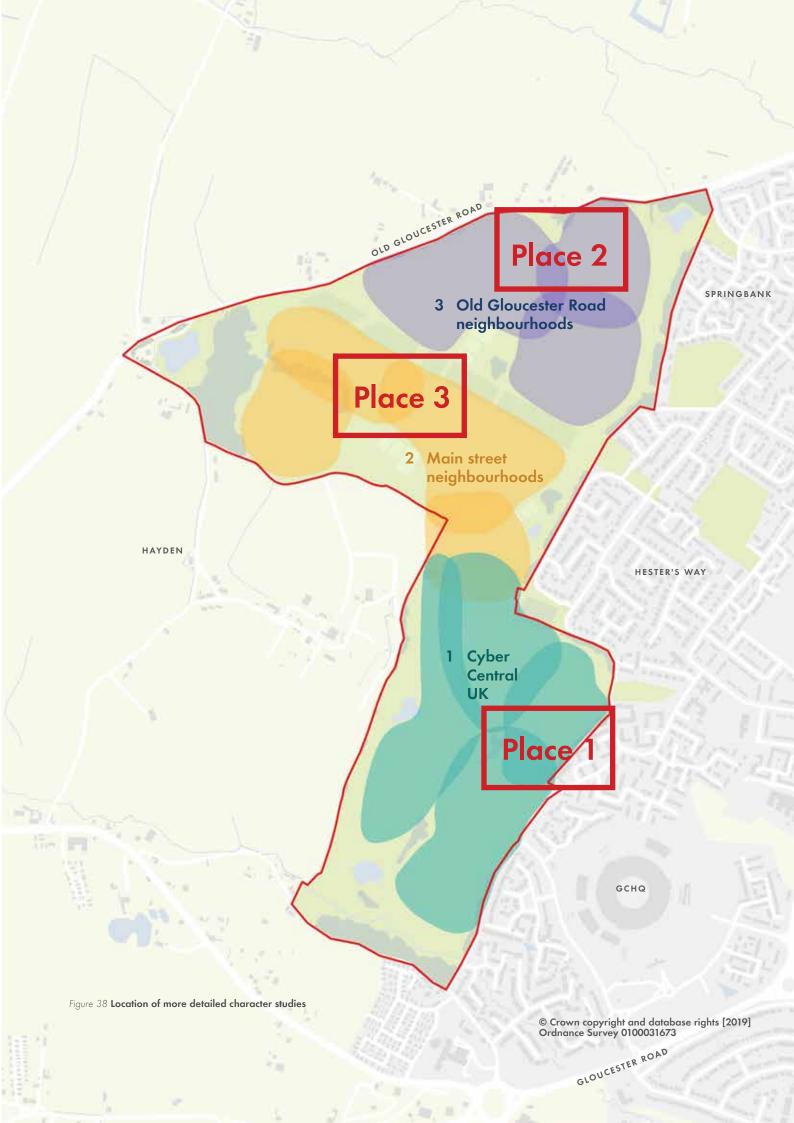
E3. New development will contribute to the distinct character of its neighbourhood whilst delivering the overall vision for The Golden Valley Development

- 7.3.1 This section contains character studies of our contrasting areas across The Golden Valley Development. The three areas have been chosen to correlate with the three character areas (with the exception of the Hayden Works site) identified in Figure 38. They are as follows:
 - 1 Cyber Central UK, the area's principal arrival point, community hub with services and facilities;
 - 2 The Gloucester Road neighbourhood, a predominantly residential area to the north of the site.
 - 3 The main street area, a mixed use area with some employment uses and residential uses, centred around a main through route passing through the heart of the site; and
- 7.3.2 For each area the following design and development guidance is provided.
 - An illustrative site plan this is not a blueprint but a guide to demonstrate important principles and opportunities for the area.
 - Urban design guidance relating to streets and movement, character and scale; multi-functional landscape and public realm; and land uses and activities.
 - An annotated artist impression or CGI view of each neighbourhood to help communicate an appropriate scale and character for new development and provide a vision for the public realm in each area.





Figure 37 Temple Gardens, Temple Cloud, Bristol. Reinterpretation of traditional forms and fenestration with use of brick and stone window surrounds. A design that feels rooted in place without resorting to pastiche. (Archio)



7.4Place 1: Cyber Central UK

Indicative layout plan

7.4.1 Figure 39 shows an indicative prospective layout plan for part of Cyber Central UK, the principal gateway to, and community hub for, the new garden community. The annotations on the plan provide an overview of some of the more important opportunities that any proposals coming forward will be expected to respond positively to.

Streets and movement

- A tree lined boulevard will be the principal connection for vehicles and buses to Telstar Way and the wider Hester's Way Neighbourhood. This will have active frontage provided by the mixed use buildings and have an easily navigable route for pedestrians and cyclists.
- 2 A new signalled junction at the main entrance to the site will have a smaller land take and allow new development to have a stronger street frontage, as well as delivering a more cycle and pedestrian friendly environment.
- Scope for a multi-storey car park will ensure 3 that enough car parking is provided to serve employment uses. Car parking in this form, rather than surface car parking, allows the land to be carefully uses and the environment to not be dominated by tarmac. Car parks should be located to 'intercept' vehicles as they arrive. The location of these car parks will be determined through further detailed masterplanning. Full consideration to height, scale and massing - and therefore impacts on existing residential development will be considered at development management stages. There will be the requirement for a Car Park Management Plan to be provided alongside any future commercial / mixed-use application.

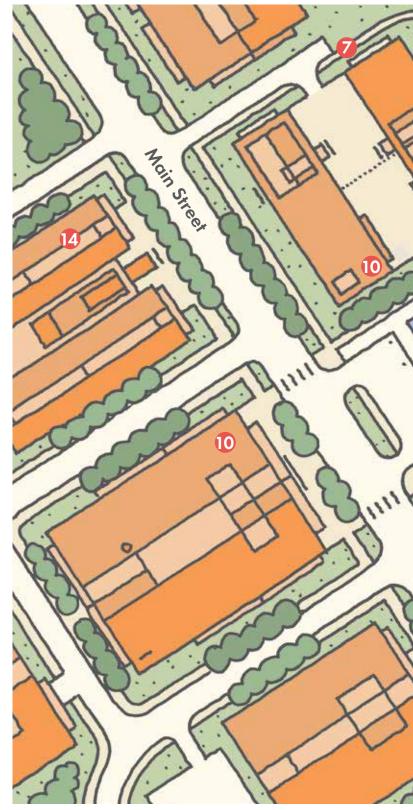
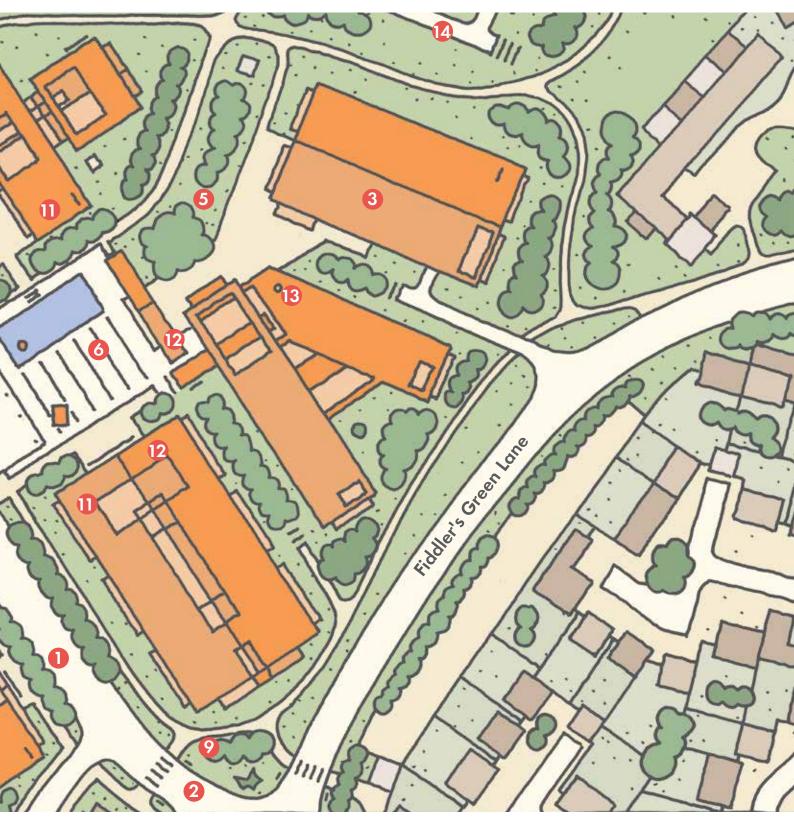


Figure 39 A sketch plan illustrating the character and identity of the neighbourhood at the threshold of The Golden Valley Development, with the existing area at Telstar Way. These high level sketches are designed to give an indicative sense of the character of the place. Their purpose is not to provide detailed design guidance on street layout, building design or layout (Allies and Morrison)



© Crown copyright and database rights [2019] Ordnance Survey 0100031673

4 A high quality and regular bus service will make this sustainable mode an obvious choice to get to The Golden Valley Development. A pull-in area will allow people to be dropped in the most convenient location and allow a shuttle service to the station to easily operate.

Landscape and public realm

- 5 The high quality landscape setting will be a key part of what sets Cyber Central UK apart. Its landscape will be part of its distinct identity and will be a key attractor to new businesses locating here.
- 6 A hard landscaped and multi-functional event spaces will allow festivals, markets and community events and help signpost the 'heart' of Cyber Central UK, adjacent to the Innovation Centre.
- 7 A network of off-road cycle and pedestrian routes will provide direct connections between buildings, through the green infrastructure network.
- 8 New buildings will make intensive use of the land, whist balancing the need to deliver appropriate multi-functional green and blue infrastructure and create high quality streets and spaces by enhancing the existing assets within the site such as mature trees and waterways.

Character and scale

- 9 A distinctive and exciting threshold for Cyber Central UK. A high quality point of arrival where new buildings will have a positive relationship with this important corner. Public art and high quality landscaping will help mark the arrival.
- 10 Generally mixed use buildings will range from three to six storeys and will vary in scale and proportion to deliver the required range of uses. The grain of this area is likely to be coarser than other areas of The Golden Valley Development with larger and taller buildings, given the focus of employment mixed-use intended within this area. New development in the immediate context of existing neighbourhoods will need to sensitively mediate with the existing scale.





Figure 40 The Kings Cross masterplan is a framework for incremental mixed use with spaces and routes driving placemaking (Allies and Morrison)



Land uses and activities

- 11 Cyber Central UK will be home to a Innovation Centre - a flexible workspace facility to be shared with representatives from industry, academia and government. This facility will occupy a prominent location in the heart of The Golden Valley Development, surrounded and supported by a wide range of uses and facilities within a high quality landscaped environment.
- 12 Shops, cafes, bars, restaurants, community and other leisure uses will be incorporated into buildings to serve employees and local residents and provide activity to streets and spaces.
- 13 Other uses such as hotels will be incorporated into this part of Cyber Central UK, serving the business community and local residents
- 14 Residential uses will also be located within the immediate area. These new homes are likely to be a mix of flats and town houses.



Figure 41 New development in Hereford creates mixed use streets and spaces delivering shops, leisure and employment uses within characterful buildings that are locally distinctive (Allies and Morrison)



Figure 42 A CGI of what the Innovation Centre at Cyber Central UK could look like (for illustrative purposes only) (Allies and Morrison)

> Residential areas are mixed with more employment focused streets to ensure that people are in Cyber Central UK throughout the day and into the evening

The high quality landscape is a distinctive part of the identity of Cyber Central UK

Shops, cafes, hotels and leisure spaces bring activity to Cyber Central UK campus



The Innovation Centre is a landmark building and will be the most prominent address in Cyber Central UK. Event and meeting spaces, support services and public cafes make the building the hub of the campus Hard landscaped spaces have been created that provide the platform for an exciting programme of events throughout the year, animating the public realm An electric bus shuttles people into Cheltenham and to the station



Figure 43 An artist's impression of what the Cyber Central UK community hub might look like (Allies and Morrison)

> High quality cycling infrastructure will help to encourage residents and commuters to choose other means of transport than the private car

Ground floors that provide the street edge with overlooking and activity - to help make streets and spaces feel safer for all uses Priority is given to sustainable transport modes including bus provision

A range of types of dwelling to meet the needs of a wide cross section of people including apartments suitably sized for families

New development is set around new high quality public space with area of planting, places to play and spaces for events and activity New development steps up in height at the corners given the well connected location. Office and employment space in accessible locations which help to create mixed use environments and create footfall throughout the day

E-Cycle Hire

7.5 Place 2: Old Gloucester Road neighbourhood

Indicative layout plan

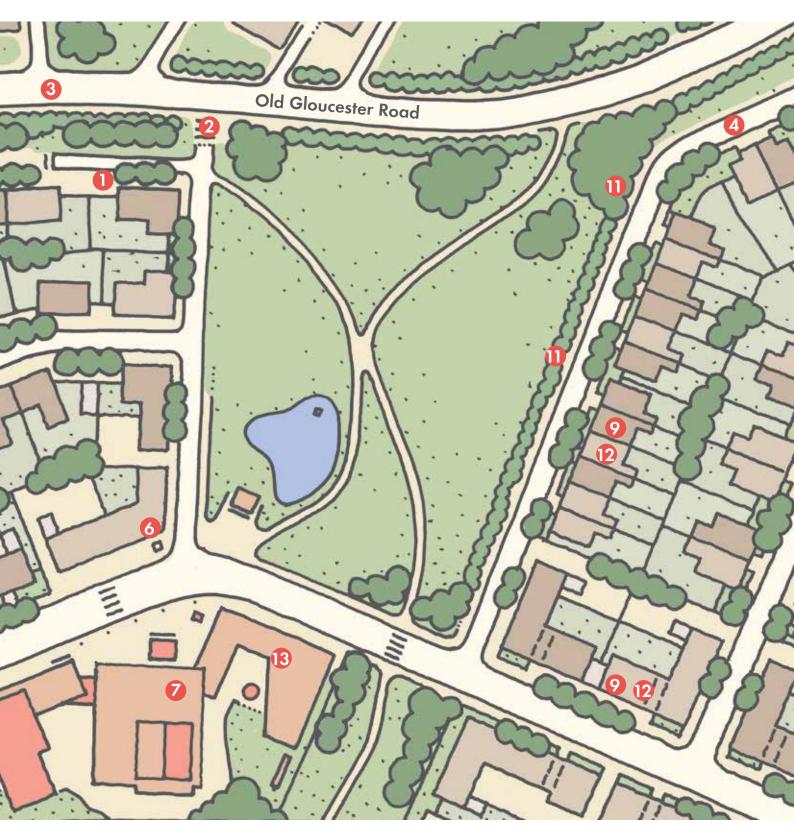
7.5.1 Figure 44 shows an indicative prospective layout plan of the area proposed for the residential neighbourhoods within the north of The Golden Valley Development. The annotations on the plan provide an overview of some of the more important opportunities that any proposals coming forward will be expected to respond positively to.

Streets and movement

- New properties will actively address the Old Gloucester Road but retain the existing mature trees and hedgerows. Homes will be accessed from lanes within the new development.
- 2 There will only be a small number of vehicular connections out onto the Old Gloucester Road but regular pedestrian and cycle connections.
- 3 Regular bus services will serve the primary school, existing residents and new homes. These routes will need to be carefully designed with crossings and wide pavements to ensure safe route to schools.
- 4 A strong network of Rights of Way and cycle connections will link existing neighbourhoods to the east and out towards the countryside to the west.
- Residential streets will be delivered through a series of connected streets (not cul-de-sacs).
 Residential parking will be provided in a range of ways including integrated garages, on-plot and onstreet spaces.



Figure 44 A sketch plan illustrating the character and identity of neighbourhoods near Old Gloucester Road. These high level sketches are designed to give an indicative sense of the character of the place. Their purpose is not to provide detailed design guidance on street layout, building design or layout (Allies and Morrison)



© Crown copyright and database rights [2019] Ordnance Survey 0100031673

67

Character and scale

- 6 The scale and grain of this area will be more modest in comparison to areas of The Golden Valley Development to the south nearer Telstar Way. Buildings will generally be two to four storeys with scope for taller buildings on key corner plots or for significant locations and uses.
- 7 Employment uses, leisure and community facilities such as schools will need larger land parcels and buildings.
- 8 Residential streets will have a more intimate scale which may be shared space or home-zones to incorporate green infrastructure, play spaces, and car parking.
- 9 Residential typologies will vary which will influence the character and scale of streets. Some streets will be denser with flats and town houses, whilst other areas will incorporate slightly lower densities to include terraced houses and semi-detached homes. This variety will be important to deliver a varied and interesting neighbourhood as well as meeting a variety of housing needs.





Figure 45 Residential neighbourhoods must incorporate a range of typologies, tenures and densities. These photos illustrate examples of terraced houses, town houses and flats sitting comfortably within the same street (Allies and Morrison)



Landscape and public realm

- 10 New multi-functional green spaces will be generous and accessible, within the heart of neighbourhoods, overlooked by homes. These spaces will provide opportunities for play, sport and community activities.
- Existing green infrastructure such as mature trees and waterways will influence the structure of new spaces and green routes.

Land uses and activities

- 12 A diversity of residential typologies will offer a wide range of high quality and distinctive homes. This should include homes of a complete mix of tenures, including affordable homes, and homes for every stage of life.
- 13 A primary school and a cafe will be located at the corner of the park, forming the centre of this neighbourhood.



Figure 46 Lower and higher density housing typologies should always address the street directly with door and windows (Allies and Morrison)



Figure 47 An artist's impression illustrating the environment within the residential neighbourhoods in the north of The Golden Valley Development (Allies and Morrison)

New schools and community facilities form the centre of local neighbourhoods

Slightly higher densities at key locations to help improve legibility and support viability of local businesses

Play spaces in central and well overlooked places at the hear of new communities. Places designed for people that bring people together to help build community spirit



Electric vehicles charging points and e-bike hire docks provide an integrated sustainable travel network A range of types of dwelling to meet the needs of a wide cross section of people - including apartments suitably sized for families High quality cycling infrastructure will help to encourage residents and commuters to choose other means of transport than the private car

7.6 Place 3: Main street neighbourhood

Indicative layout plan

7.6.1 Figure 48 shows an indicative prospective layout plan of the area proposed for the neighbourhoods along the Main Street, to the north west of The Golden Valley Development. The main street axis will provide the opportunity for a range of uses and activities - employment, community, commercial and residential - to share good quality access. The annotations on the plan provide an overview of some of the more important opportunities that any proposals coming forward will be expected to respond positively to.

Streets and movement

- Designed as a multi-purpose street not a throughroad for vehicular traffic. The route will have a priority measures for buses and cyclists to help prioritise sustainable modes.
- 2 Tree planting, high quality public realm and pavements of a comfortable dimension will help the environment feel like a good street.
- 3 A number of high quality crossings will allow pedestrians and cyclists to easily cross the boulevard, accessing the linked network of open spaces.
- 4 There will be on-street parking to allow people to easily park to visit friends or local businesses.
- 5 Residential properties will have car parking provided in a range of ways including integrated garages, on-plot and on-street car parking. Segregated access lanes would enable good quality access and frontage if access is restricted from the main street direct.



Figure 48 A sketch plan illustrating the character and identity of neighbourhoods along the main street through the area. These high level sketches are designed to give an indicative sense of the character of the place. Their purpose is not to provide detailed design guidance on street layout, building design or layout (Allies and Morrison)



© Crown copyright and database rights [2019] Ordnance Survey 0100031673

6 Employment areas will have car parking provided in multi-storey or small decked car parks to make most efficient use of land. In some places, service areas and small parking courts may be provided if well landscaped and carefully designed, away from the primary frontage. There is scope for this land to be used in an evolving way during the lifetime of the development given changes in technology.

Character and scale

- 7 The scale of development should step up towards the main street to balance the scale and width of this street. This might include development of four and five storeys in some areas.
- 8 Generally residential neighbourhoods located along the main street will consist of a range of typologies from flats and terraced homes in the most accessible locations, to semi-detached homes in more secluded locations.
- 9 Employment buildings will be mixed in typologies from small office buildings to semi-industrial sheds, coarser and larger in grain and footprint.



Figure 49 Glider bus, Albertbridge Road, Belfast



Figure 50 Southwark Street is a busy traffic route with regular buses and heavily uses as a route for cyclists. Tree planting, pedestrian crossings, cycle parking and high quality public realm create a positive street environment (Google)



Figure 51 Signage, planting and a changes in surfacing indicates that the street is a Home Zone, a residential space designed to be safely shared by people, children and vehicles (Northam Home Zone)

Landscape and public realm

- 10 A meadow grassland public space is established under the existing pylons axis to the rear. See National Grid design guidance for support and ideas on the potential design and uses for this these spaces (https://www.nationalgridet.com/ document/130626/download).
- 11 To the south of the main road is a nature reserve that is publicly accessible but intended to be a quieter area with varied habitats.
- 12 Existing landscape assets such as waterways and mature trees have shaped the development coming forward and have influenced the proposed connected future network. A small stream is retained and enhanced and will form an attractive feature between more employment and residential focused areas.

Land uses and activities

- 13 Accessible areas of mixed employment are located here, with good access to the proposed road to the M5 junction.
- 14 Residential areas of mixed tenure and type are accessed from the main street through the site.



Figure 52 Tree lined streets with on-street parking provides a flexible and space efficient way of meeting parking demands. The image also illustrates the numerous greening opportunities within the street scene including walls, roofs and planting opportunities in front gardens and within pavements

Figure 53 An artist's impression illustrating the environment along the main street through The Golden Valley Development (Allies and Morrison) 'n

Employment spaces provide activity to the main street and are a mix between small offices, workshops and semi industrial space A green route connects across the street, linking two new open spaces, following the line of an existing water course

A cycle and bus only lanes means that sustainable transport modes have priority and are appealing to use







NEXT STEPS

8 Next steps

8.1 Next steps

- 8.1.1 As established by JCS Policy A7, the Councils require a comprehensive and coordinated approach to development. This is in order to deliver the aspirations of this planning framework which is a material planning consideration (and is therefore offered considerable weight in the determination of planning applications), and the wider policy framework including the policies within the Joint Core Strategy and the relevant local plans.
- 8.1.2 In their role as enablers, the Councils may use their statutory powers including compulsory purchase powers to facilitate comprehensive development and delivery of the site in order to deliver the policy framework.
- 8.1.3 Cheltenham and Tewkesbury Borough Councils will consider in conjunction with relevant partners, the following key stages (or subsequent stages to be agreed) which will need to be carried out, as outlined in Figure 55.

Phasing

- Through consultation on this SPD requests were 8.1.4 made to include a phasing strategy. This has not been incorporated as a phasing strategy will be informed by a variety of decisions around land ownership and land release, development and infrastructure partners and more detailed master planning. These decisions are outside the scope of this SPD. However this SPD is clear in the earliest delivery of primary infrastructure, key social facilities and green infrastructure with the emphasis on enabling a sustainable and connected development both physically and socially, The earlier establishment of social infrastructure such as retail, employment and leisure uses occurs, easily accessible to the first residents and employees of the site, the greater the synergy between live/work and shared trips.
- 8.1.5 At the development management stage the local planning authorities will help inform the decisions around future phasing.

Validation checklist

- 8.1.6 In addition to the assessment of proposals against the objectives and principles outlined in this SPD, the following strategies and reports are likely to be required in support of forthcoming planning applications (the final scope of reports will be agreed at pre-application stage):
 - Evidence of assessment matrix process (See 8.2)
 - Infrastructure Delivery Plan (see Figure 57) and Section 106 Heads of Terms / CIL strategy
 - Detailed masterplan (building on SPD)
 - Landscape strategy
 - Utilities strategy
 - Energy strategy
 - Maintenance strategy
 - Green Infrastructure, Open Space, Public Realm Management Strategy (likely to be in Section 106 Heads)
 - Employment plan
 - Health impact assessment
 - A comprehensive transport assessment with due regard to trip generation and impacts on the existing networks and junctions
 - Hierarchy of streets strategy
 - Parking strategy and Car Park Management Plan
 - Delivery and servicing strategy
 - Cycle and walking strategy
 - Travel planning strategy
 - Detailed and specific assessment of impact on air quality of the development, both during construction and in longer term use
 - Carbon neutral strategy / climate change mitigation and adaptation strategy
 - Assessment of Impact on Severn Estuary Special Protection Area (SPA), Special Area of Conservation (SAC) and Ramsar Site
 - Flood Risk and Drainage Assessment, Waste Management Strategy, Ecological Reports, Blue and Green Infrastructure Strategy, Land Contamination reports, Water Use Strategy, etc
 - Other strategies/plans arising from SPD objectives.
 - Other requirements as listed on Validation Checklist at point of submission and/or agreed at pre-application stage.
 - Consideration of Environmental Impact Assessment (which may include some items above).



Stage of Delivery	Task				
Stage 1- Mechanism for Delivery	A Delivery Options Report has been prepared for CBC (as landowner) in parallel to the preparation of this SPD to inform the identification of the preferred delivery mechanism for the Council's land in the context of the whole site. This will assist TBC and CBC as LPAs to identify and agree a strategy for physically delivering development on the overall site. This SPD is being informed by a delivery testing model with high level informed inputs to understand the headline position and conditions required in order to ensure that a commercially viable proposition can come forward. However given the high level nature of the masterplan, and this being a snapshot in time, the SPD is not based on fully costed infrastructure provisions or confirmed planning obligation costs. This analysis will need to take place during stage 2 below. This analysis will need to take place during stage 2 below with a detailed and robust viability exercise undertaken to inform the planning application proposals at that point in time.				
Stage 2- Pre-Planning Application State as early as possible in the planning process, this will include the mechanisms for delivery either Section 106, CIL or other means being established. Given the extent of works required to open up the site these costs are likely to be significant a therefore further viability analysis will be required to identify any shortfalls and where external to opportunities may need to be explored. Therefore, an Infrastructure Delivery Plan will need to agreed by developers and landowners prior to the submission of the first planning application site, this plan will need to set out a timely manner in which infrastructure will be delivered and site wide phasing and trigger targets. The Delivery Plan will need to ensure that the scheme recommercially viable and market facing.					
Stage 3- Formal Planning Application Submission(s)Submission of a formal planning application(s); Irrespective of which LPA boundary the application fall in, officers at both CBC and TBC will be provided with an opportunity to comment or and design elements of each planning application, based on the requirements of the SPD and local planning policy.					
Stage 4 - Condition Discharge and Phased Development	Commencement of development and key infrastructure secured through S106 agreement(s) / CIL shall be delivered on site in accordance with the agreed phasing and trigger mechanisms.				

8.2 Assessment matrix and Design Review

- 8.2.1 The masterplan framework, its objectives and principles as outlined in this SPD will be used to assess development proposals as they come forward. The SPD acknowledges that some of the guidance provided is more detailed than might usually be included for an SPD of this nature, however this is intended to provide the approach to delivering a single vision. Therefore it is accepted that other design approaches maybe appropriate but only if they still deliver the objectives and principles outlined in the SPD including the delivery of a garden community. To aid this process, all those involved in the preparation, assessment and determination of development proposals are asked to use the assessment matrix below (Figure 58) to make qualitative assessments of how proposals can be considered to perform against key masterplan principles and objectives. Any planning application submissions will therefore need to provide evidence of this assessment process and demonstrate how it has informed the development proposals.
- 8.2.2 Alongside this process, schemes will be assessed through a formal design review process and, in the case of residential development, through the Design Council Cabe's Building for Life 12 assessment (or current equivalent) and requirement for Building with Nature.

ASSESSMENT RATING

CVENER CENTRAL GARDEN COMMUNITY VISION v Date for proposal accord with the grant of the Cyber Cannot with and world its inglamentator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set management of the set managementator help to warlaw fits world Image: Construction of the set management of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fit help to warlaw fits world Image: Construction of the set managementator help to warlaw fit help to warlaw fits world Image: Construction of the set managementator help to warlaw fit help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of the set managementator help to warlaw fits world Image: Construction of thelp to warlaw fits world Image: Cons			Red	Amber	Green	
Interval	CY	BER CENTRAL GARDEN COMMUNITY VISION				
Intermed Processing Proceedings and Capture Comments will be an explore and point and point of an explore in variable in variab	v	Does the proposal accord with the spirit of the Cyber Central vision and would its implementation help to realise this vision?				
 I and answer convention and wate management, mellowing the light attached of answere methan attached by antibility and attached by antin attached by antibility and attached by antibility and attach	O	BJECTIVE A: Embracing the highest standards of sustainability				
Image Section 1 Image Sect	A1					A
Ansage and the analysis of the analysis	A2	Resilience: The design of new buildings, streets, open spaces and other required infrastructure will ensure new development is resilient in				A
Image: An analysis of a large of	A3	Connection to nature: Development at Cyber Central Garden Community will enrich local ecology and biodiversity and will take proper				A
Add Mobility: Cyber Central Gorden: Community will be an integrated and fully connected estension of wear Cheberham Image: Community: Communit: Communit: Community: Communit: Community: Community: Community:	A4	Community and culture: Cyber Central Garden Community will mature into a thriving and mixed sustainable community, providing jobs,				A
Bit Meed in patientship, a high profile and sate of the art "Cyber Innovation Centre" will be the focal point of the Cyber Central Gorden Image: Centre of Centre of the Cyber Central head, will provide flexible business space, hoade, need and letture centre of the down of the analysis with the chard of centre of the own of the cyber Central head, is not centre of the own of the cyber Central head, is not centre of the cyber Central head, will provide flexible business space, hoade, need a supported by Image: Centre of the cyber Central head, will be analysis of the cyber Central head, is not centre of the cyber Central head, will be analysis of the cyber Central head, is not centre of the cyber central head, will be cyber centre of the cyber centre of the supported by Image: Centre of the cyber of the cyber Central head, will provide need to can end of the cyber central head, is not centre of the cyber centre of the cyber centre of the cyber central head is not centre of the cyber centre of the cyb	A5					A
Image:	O	BJECTIVE B: A vibrant and diverse range of uses and activities, serving existing	and new	communiti	es	
21 After a managing employment hand, focused around the Cycle Central hult, will provide fields balances space, hotely, real and leasure provide and cubunal and community uses to save that local community and wilder region Image: Community information of the Cycle Central hult, will provide fields balances space, hotely, real and leasure provide field cubunal end and used region of the community information. Image: Community information of the Cycle Central hult, will provide fields balances space, hotely, real and leasure provide field cubunal end and community information. Image: Community information of the Cycle Central hult, will provide fields balances space, hotely, real and end to be and the community information. Image: Cycle Cycle Cycle Cycle Cycle Central hult, will provide fields balances space, hotely, real of a green in the dubate and and and and and the field and least to inform the development of a green information. Image: Cycle Cycle Cycle Cycle Central hult, will provide fields to be cycle Cycle Central hult, will be designed to provide fields to provide fields to be cycle Cycle Cycle Central hult, will be designed to provide fields to provide fields to be cycle Cycle Cycle Central hult, will be designed to provide fields to provide fields to be cycle Cycl		Delivered in partnership, a high profile and state of the art 'Cyber Innovation Centre' will be the focal point of the Cyber Central Garden				BI
13 A substraction and allowable range of housing tenues, including affordable housing and selfbuild, to meet local needs supported by Image: Community inflammatume 14 Higher densities and a range of dwelling typologies which make file best use of available land Image: Community inflammatume 12 Development mut possible integrate existing landicape assets and features and use files features to inform the development of a green infrastracture network for the site Image: Community inflammatume 12 Development mut possible integrate existing landicape assets and features and use files features to inform the development of a green infrastracture network for the site and erect to the existing topography and strategic landicape character Image: Community inflammatume 13 A big dupid in which the possible is provided at the gateway of Cyber Central which will be designed to provide flexible spaces for events and activity. Image: Community inflammatume is the strategic on the strategic on the issue possible in provide flexible spaces for events and activity. Image: Community inflammatume is the strategic on the strategic on the issue population is to physical and vision of existing spaces. Image: Community inflammatume is the strategic on the issue population is to physical and vision in provision of allowers provision of allowers and avider approvability. Image: Community inflammatume is the strategic on the issue provision of allower issue provision of a wider complexity issue in the design provision of allower is public to repare. Image: Community inflammatume issue and issue issue of provision of allowere pression of a wider complexity issue issue p	B2	45Ha of mixed-use employment land, focussed around the Cyber Central hub, will provide flexible business space, hotels, retail and leisure				Bź
Image: community introductive Image: community introductive Image: community introductive 24 Higher densities and a range of dwelling typologies which make the best use of available land Image: community introductive	B3	A sustainable and deliverable range of housing tenures, including affordable housing and self-build, to meet local needs supported by				B
OBJECTIVE C: Working with the natural landscape and its features or individuation integration integrate existing landscape assets and features and use features to inform the development of a green individuation network for the use. OP Proposals should respond to views into and out of the site and react to the existing topography and strategic landscape character Proposals should respond to views into and out of the site and react to the existing topography and strategic landscape character Proposals should respond to views into and out of the site and react to the existing topography and strategic landscape character Proposals should respond to views into and out of the site and react to the existing topography and strategic landscape character Proposals should respond to views into and out of the site and react to the existing topography and strategic landscape character Proposals should promote a strategy tor new tree planting and retention of existing species The boundaries with existing communities, the wider countrylide, the servage works, and between phases of development and or wider The development must prometer a planter optical and viscal integration. Proposals should be devised with patients to local local growing through the adequate provision of allotments as part of a wider Proposals should be developed across the site to inform the design process and with consideration to longer term sustainability Proposals should be devised with patients and support active and sustainable trowel patients and behaviour - public transport <						B4
C1 Development must positively integrate existing landscape assets and features and use fleese features to inform the development of a green Image: C1 C2 Proposals should respond to views into and out of the site and react to the existing topography and stategic landscape character Image: C1 Image: C1 C3 Proposals should respond to views into and out of the site and react to the existing topography and stategic landscape character Image: C1 Image: C1 C4 Ahight quality new public spaces will be provided at the gateway of Cyber Central which will be designed to provide flexible spaces for events and activity Image: C1 Image: C1 C4 Ahight quality new public space will be provided at the gateway of Cyber Central which will be designed to provide flexible spaces for events and activity Image: C1 Image: C1 C4 Ahight quality new public space as the gateway of Cyber Central which will be designed to provide flexible spaces for events and addition and maximize opponting to sustainable drainage to maximize opponting to sustainable drainage to maximize opponting to sustainable view of new stateging addition of besizes of physical addition of addition of a development space frequence to the addition of maximize opponting to physical addition of addition of addition of addition of addition of physical addition physical addition of physical addition of physica	0					
Proposals should respond to views into and out of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and react to the existing topography and strategic landscape character Image: Comparison of the site and reacter approach to sustainable to readuce the long-term risk of floading Image: Comparison of the site and reacter approach to sustainable torse portsion of allotters as part of a wider Image: Comparison of the site and reacter approach to sustainable torse portsion of allotter top space and await and topography and topography and with consideration to longer term sustainability Image: Comparison and coreacter						
C3 Proposals shall include a network of public spaces to meet local open space requirements Image: Comparison of Comparison						CI
A high quality new public space will be provided at the gateway of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be designed to provide flexible spaces for Image: Comparison of Cyber Central which will be provide flexible provide of allotments as part of a wider Image: Comparison of Cyber Central which will be provide flexible and integration Image: Comparison of Cyber Central which central which will be provide flexible and sp						C
averts and activity A substantial data and activity of the substantiable drainage to reduce the long-term risk of flooding Image: Control of the long-term risk of flooding C5 New development should promote a strategy for new tree planting and retention of existing spacies Image: Control of the long-term risk of flooding C6 Development should promote a strategy for new tree planting and retention of existing spacies Image: Control of the long-term risk of flooding C7 The boundaries with existing communities, the wider countryside, the sewage works, and between phases of development shall be carefully planned and designed to maximic opportunities for physical and visual Integration Image: Control of the long-term risk of a wider strategy to meet existing and future need Image: Control of the long-term risk of a wider strategy to meet existing and future need Image: Control of the long-term risk of a wider strategy to meet existing and future need Image: Control of the long-term risk of a wider strategy to meet existing and future need Image: Control of the long-term risk of a wider strategy shall be developed across the site to inform the design process and with consideration to longer term sustainability Image: Control of terms and behaviour - public transport Image: Control of terms and behaviour - public transport Image: Control of terms and behaviour - public transport Image: Control of terms and behaviour - public transport Image: Control of terms and behaviour - public transport Image: Control of terms and behaviour - public transport Image: Control of terets and routes which can be managed to mee						c
Control of a strategy for new three planting and retention of existing species Image: Control of existing communities, the wider countryside, the sewage works, and between phases of development shall be carefully Image: Control of existing communities, the wider countryside, the sewage works, and between phases of development shall be carefully Image: Control of existing communities, the wider countryside, the sewage works, and between phases of development shall be carefully Image: Control of existing control of existing communities, the wider countryside, the sewage works, and between phases of allotments as part of a wider Image: Control of existing existentiates Poliver new direct pedestrian and cycle connections to existing control of existing control on the exis		events and activity				C4
The boundaries with existing communities, the wider countryside, the sewage works, and between phases of development shall be carefully						C.
Planned and designed to maximise opportunities for physical and visual integration Image and designed to maximise opportunities for physical and visual integration The development must promote a positive opproach to local food growing through the adequate provision of allotments as part of a wider Image and designed to maximise opportunities for physical and visual integration Proposals should be devised with partners to develop and deliver an innovative public art programme Image and designed to maximise opportunities for physical and visual integration to longer term sustainability Image and designed to maximise opportunities for physical and visual integration OBJECTIVE D: An integrated and connected extension of West Cheltenham Image and delivery of new development will prioritise and support active and sustainable travel patterns and behaviour - public transport Image and delivery of new development will prioritise and support active and sustainable travel patterns and behaviour - public transport Image and delivery of new development will prioritise and facilities D1 The design and delivery of new development will prioritise and facilities Image and facilities Image and facilities D2 Deliver new direct pedestrian and cycle connections to existing communities and facilities Image and and development will priorities and sustainable travel patterns and behaviour - public transport Image and and prove and private approach to develop and deliver an analysis and facilities D3 Creation of an open network of streets and routes which can be managed to meet local needs	C6			ļ		C
Strategy to meet existing and future need Image: Strategy to meet existing and with consideration to longer term sustainability Image: Strategy to meet existing and future need Image: Strategy to meet existing and future need for future need for existing and focilities Image: Strategy to meet existing and future need for future needs Image: Strategy to meet existing and future need for existing and for existing and future need for existing and future need for existing and for existing and future need for existing and for ex	C7	planned and designed to maximise opportunities for physical and visual integration				C7
C10 A management strategy shall be developed across the site to inform the design process and with consideration to longer term sustainability Image: C10 and C10	C8					C
OBJECTIVE D: An integrated and connected extension of West Cheltenham D1 The design and delivery of new development will prioritise and support active and sustainable travel patterns and behaviour - public transport D2 Deliver new direct pedestrian and cycle connections to existing communities and facilities D3 Creation of an open network of streets and routes which can be managed to meet local needs D4 Delivery of a new 'main street' between Telstar Way and Old Gloucester Road, designed as a street for people, not a road for vehicles D4 Principal junctions should be designed to minimise land take and create safe and direct crossing points for pedestrians and cycles D6 Priorision of safe routes to schools, which will be provided within or beyond the West Cheltenham site D7 Aflexible and creative approach to the application of parking standards and emerging and new vehicle technologies and initiatives	C9	Proposals should be devised with partners to develop and deliver an innovative public art programme				C9
In the design and delivery of new development will prioritise and support active and sustainable travel patterns and behaviour - public transport Image: Control of the design and cycle connections to existing communities and facilities Image: Control of the design and cycle connections to existing communities and facilities Deliver new direct pedestrian and cycle connections to existing communities and facilities Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to react streets and routes which and create safe and direct crossing points for pedestrians and cycles Image: Control of an open network of streets and routes which can be provided within or beyond the West Chellenham site Image: Control open network of streets and routes which can be appli	C10	A management strategy shall be developed across the site to inform the design process and with consideration to longer term sustainability				C10
Deliver new direct pedestrian and cycle connections to existing communities and facilities Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to meet local needs Image: Control of an open network of streets and routes which can be managed to receit safe and direct crossing points for pedestrians and cycles Image: Control open network of streets and routes which will be provided within or beyond the West Cheltenham site Image: Control open network of streets and routes and creative approach to the application of parking standards and emerging and new vehicle technologies and initiatives Image: Control open network of streets and routes which can be managed and emerging and new vehicle technologies and initiatives	O	JECTIVE D: An integrated and connected extension of West Cheltenham				
Creation of an open network of streets and routes which can be managed to meet local needs Image: Creation of an open network of streets and routes which can be managed to meet local needs Delivery of a new 'main street' between Telstar Way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Creation of an open network of streets and routes which can be managed to meet local needs Delivery of a new 'main street' between Telstar Way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Creation of street's and create street and direct crossing points for pedestrians and cycles Ds Principal junctions should be designed to minimise lond take and create safe and direct crossing points for pedestrians and cycles Image: Creation of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Creation of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Creation of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Creation of safe routes to schools, which the application of parking standards and emerging and new vehicle technologies and initiatives Image: Creation of safe routes to schools, which the application of parking standards and emerging and new vehicle technologies and initiatives Image: Creation of safe routes to schools, which the application of parking standards and emerging and new vehicle technologies and initiatives	D1	The design and delivery of new development will prioritise and support active and sustainable travel patterns and behaviour - public transport				DI
Delivery of a new 'main street' between Telstar Way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of the telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Image: Constraint of telstar way and Old Gloucester Road, designed as a street for people, not a road for vehicles Dr Provi	D2	Deliver new direct pedestrian and cycle connections to existing communities and facilities				D
D5 Principal junctions should be designed to minimise land take and create safe and direct crossing points for pedestrians and cycles Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Comparison of safe routes to schools, which will be provided within or beyond the West Cheltenham site D7 A flexible and creative approach to the application of parking standards and emerging and new vehicle technologies and initiatives Image: Comparison of parking standards and emerging and new vehicle technologies and initiatives	D3	Creation of an open network of streets and routes which can be managed to meet local needs				D
D6 Provision of safe routes to schools, which will be provided within or beyond the West Cheltenham site Image: Cheltenham site D7 A flexible and creative approach to the application of parking standards and emerging and new vehicle technologies and initiatives Image: Cheltenham site	D4	Delivery of a new 'main street' between Telstar Way and Old Gloucester Road, designed as a street for people, not a road for vehicles				D4
D7 A flexible and creative approach to the application of parking standards and emerging and new vehicle technologies and initiatives	D5	Principal junctions should be designed to minimise land take and create safe and direct crossing points for pedestrians and cycles				DS
	D6	Provision of safe routes to schools, which will be provided within or beyond the West Cheltenham site				Da
OBJECTIVE E: Character and placemaking	D7	A flexible and creative approach to the application of parking standards and emerging and new vehicle technologies and initiatives				D7
	0	SJECTIVE E: Character and placemaking				
E1 New development will deliver a range of housing densities and typologies to ensure effective use of land is made	El	New development will deliver a range of housing densities and typologies to ensure effective use of land is made				E
E2 New development will look to local precedent in Cheltenham to help deliver locally distinctive forms of development	E2	New development will look to local precedent in Cheltenham to help deliver locally distinctive forms of development		1		E
E3 New development will contribute to the distinct character of its neighbourhood whilst delivering the overall vision for Cyber Central Garden	E3			1		E
Community P1 Cyber-centra hub - streets and movement; landscape and punilic realm; character and scale; land uses and activites	P1			1		P
P2 Gloucester Road neighbourhood - streets and movement; landscape and puniic realm; character and scale; land uses and activites						P
P3 Main street neighbourhood - streets and movement; landscape and punic realm; character and scale; land uses and activities						P3

Figure 56 Qualitative assessment matrix

Allies and Morrison Urban Practitioners is not responsible for nor shall be liable for the consequences of any use made of this Report other than that for which it was prepared by Allies and Morrison Urban Practitioners for the Client unless Allies and Morrison Urban Practitioners provides prior written authorisation for such other use and confirms in writing that the Report is suitable for it. It is acknowledged by the parties that this Report has been produced solely in accordance with the Client's brief and instructions and without any knowledge of or reference to any other parties' potential interests in or proposals for the Project.

Allies and Morrison Urban Practitioners accepts no responsibility for comments made by members of the community which have been reflected in this report.





Allies and Morrison



