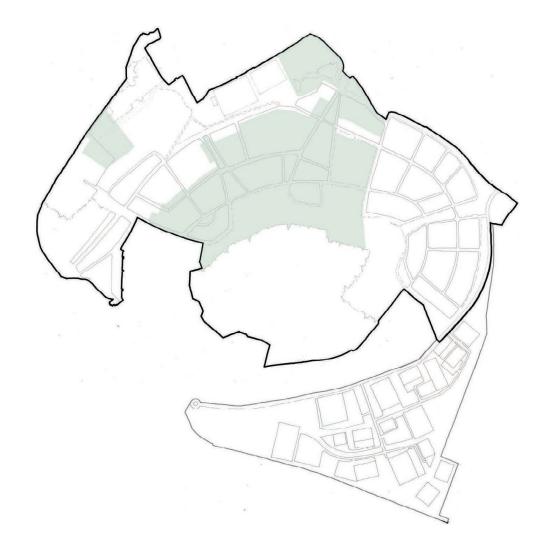
# Design Code

**GRAVEN HILL DEVELOPMENT COMPANY 2015** 





#### **STATEMENT ON CODE STATUS & APPLICATION**

This Code sets out the design requirements for the northern area of Graven Hill Village as outlined in black on the site plan shown left.

With project delivery expected to last 15 years, it is likely that there will be changes in market perception, Government policy and implementation procedures during this period. The Code will, therefore, be reviewed and refined prior to each phase of development with future versions incorporating a section on 'lessons learnt.'

The current phase of development (Phase 1) to which this initial Code applies is shaded in grey on the plan shown left.

Purchasers of plots within this area will have to demonstrate that proposals comply with the current version of the Masterplan and Code. Their feedback and experiences will be recorded and used to inform any further iterations of this

LEFT

Masterplan showing Code boundary & extent of Phase 1 developments.

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VISION AND RATIONALE

# Introduction

**PROJECT VISION** 

What is the purpose of the design code & how does it relate to the project vision?

#### RIGHT

proposal

Village development

## Masterplan layout of the Graven Hill

The Graven Hill Village project consists of the redevelopment of 190 hectares of brown-field land to deliver approximately 1800 new homes along with a primary school, employment space, recreational areas, a local pub/restaurant & a small number of local shops.

The Graven Hill Village Development Company's vision for the project is as follows:

- To offer the largest opportunity in the UK for people who want to build their own home. This will be for households of all sizes & will include opportunities for people to build as a group and as individuals.
- To have extensive open space. This is to include woodland, allotments, cycle paths & sports pitches.
- To have a strong sense of character &

identity. Existing features (heritage and landscape) are to be retained & reinvented wherever possible.

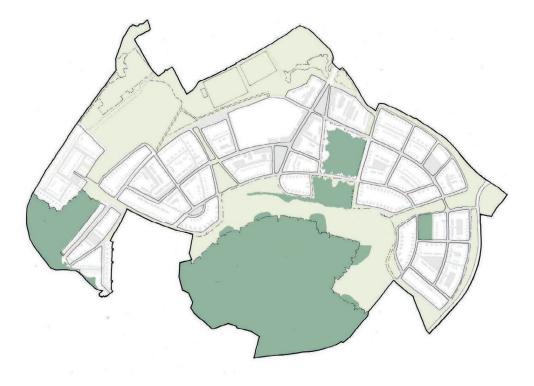
 To provide a strategic location for new employment space. Creating jobs & training for local people & attracting new investment into Bicester are to be explored wherever possible.

#### PURPOSE OF THE DESIGN CODE

A Masterplan & Design Code has been produced in response to this vision.

Whilst the Masterplan focuses on the majority of technical aspects (such as phasing, mix, street hierarchy etc.) the Design Code's focus is on the desired sense of character & the essential design rules needed to achieve it.

It also serves as a reference point, facilitating the quick resolution of any subsequent planning applications that may be required.



Although addressing different conditions of the development's outline planning approval, these **two** separate documents are entirely interrelated.

#### STRUCTURE OF THE DESIGN CODE

This section continues to provide an overview of the approach employed & how this has informed the development of 12 'character components' across the site.

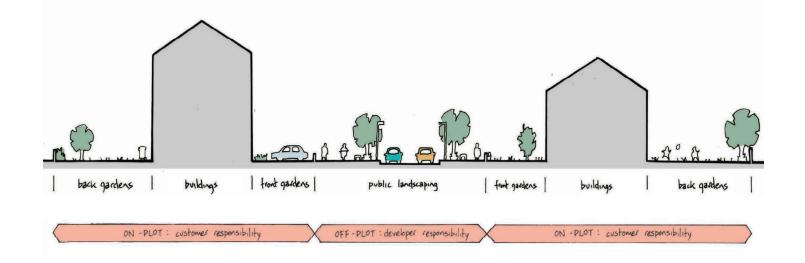
An overview of the proposed self-build process is also given together with a

description of the proposed 'plot passport' documents (essentially snapshot codes for each individual plot).

The second section looks at the requirements for each character component in more detail, describing the qualities desired, the level of design freedom available the design principles to be applied & any other key details needed in order to realise the vision as intended. In doing so, this section aims to provide clarity to all stakeholders including plot purchasers, consultants & suppliers of the options available.

#### BELOW

Section through a typical street showing the extents of 'on plot' & 'off plot' features



What are the overriding principles that have informed the development of the Code?



The aspiration for Graven Hill is to be the UK's largest self-build scheme where community creativity is encouraged & maximum design flexibility is afforded.

This key visionary driver has informed the need to employ a 'hands off' approach to all 'on-plot' features (for which customers are responsible) wherever possible.

Only those specific features deemed critical to establishing the desired 'sense of place' will be regulated - but nothing else.

Informed by this principle, it is proposed that a concise list of only **6 baseline constraints** 

#### be applied to all plots. These are as follows:

- 1 Build zones
- 2 Maximum building heights
- 3 Boundary heights
- 4 Vehicular access
- 5 Vehicular & cycle parking
- 6 Waste management

Design decisions for all remaining aspects

can, therefore, be left to the discretion of plot purchasers (and/or their designers).

Only where absolutely necessary (either due to their visibility or position in the street hierarchy) are more **enhanced constraints**  Sense of Place Definition

A 'sense of place' encompasses a number of aspects, notably the [areas] local distinctiveness, visual quality & propensity to encourage social activity to be applied. An overview of the levels of control & constraints to be applied to each area is given in the diagram overleaf.

Supported by the Masterplan, this approach is considered to be in accordance with best practice in that it has encouraged the multidisciplinary team to focus less on architectural *style* & more on those lasting elements of design important to 'get right' at the outset (e.g street pattern, ownership boundaries, transport links etc).

This realignment of emphasis is clearly shown by the consideration given to the public space in the subsequent sections.

#### BELOW

Masterplan showing levels of control across the site.



High Design Feedom

Low Design

Feedom

As shown on the diagram above, the majority of the developed areas of the site benefit from a high level of design freedom. **Only baseline constraints will apply to these areas.** 

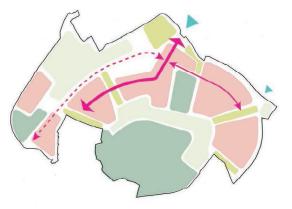
Some Design 7 Feedom 1

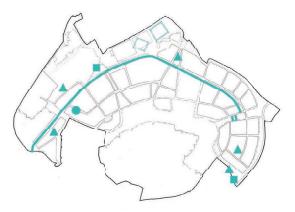
The main arterial routes demand a higher level of control in order to achieve a clearly legible street network. **Some enhanced constraints will apply to these areas** 

The village core contains the majority of socio-economic functions &, will, therefore offer least design freedom. The single-aspect fringe streets that face onto key public areas are also less . **All enhanced constraints will apply to these areas.** 

#### **BELOW & BELOW RIGHT**

Masterplans showing the 2 character concepts that have informed the detail behind the constraints.





Urban Structure

Rural

Structure

The exact details of the constraints themselves have been informed by the character desired at any specific location.

The diagram above shows the general arrangement of the two opposing characters across the site, that of an 'urban' structure & that of a 'rural' structure.

These structures are made up from 12 separate component parts (see masterplan overleaf), each exhibiting 'urban' or 'rural' qualities to varying degrees.

A further aspect that has been considered in establishing appropriate constraint

Circular Railway

- Water Towers
  EWS Ponds
- Concrete Plinths

Potential Buildings to Retain particulars is that of the site's military history as a former WW2 logistics base. A major focus in developing all proposals has been to 're-invent' & incorporate as many existing military features as possible. These bold celebrations of Graven Hill's history are scattered throughout, providing continual 'reminders' that link the scheme together as a whole.

The level of control, extent of rural/urban qualities & concentration of military features of a given area have together dictated the constraints proposed. These constraints (& their associated plans) are given in the subsequent sections of this report..



#### LEFT

Location of the 12 character components across the site

# The Self-Build Process

**THE DELIVERY TIMELINE** shown right summarises the processes involved in the sale of plots & construction of self-build homes across the site. A total maximum delivery of period of 32 months from plot reservation to plot completion is proposed, consisting of a 6 months design stage, a 2 month 'Golden Brick' stage & a 24 month 'Build-Out' stage.

Plot purchasers will be expected to submit information to the Graven Hill Development Company at each stage (e.g. building designs, specifications etc) & to complete the activities required within the timescales provided.

All designs must accord with the parameters set out in the Design Code, the Masterplan & the Outline Planning permission. The proposed 'Plot Passports' (see overleaf) will act as key reference points throughout the process.

#### RIGHT

Proposed selfbuild delivery process & timescales For any enquiries relating to this Code or the self-build process, please get in touch on...

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⊠ info@gravenhill.org.uk

or visit our website: www.gravenhill.org.uk

#### **Reserve Plot**

Start 6 month Design stage

After reading the Design Code & choosing the most appropriate location in terms character & level of design freedom, the next step will be to obtain a 'Plot Passport' (see overleaf for more detail). If the plot offers the features desired, a plot reservation can then be made at which point the 6 month Design stage will commence.

#### Exchange of Sales Contract Start 2 month Golden Brick stage

2

Detailed designs are to be submitted to the Graven Hill Village Development Company (GHVDC) within 6 months of submitting a plot reservation. Once designs are approved in accordance with the relevant Plot Passport, the Exchange of Sales Contract will be completed, commencing the Golden Brick stage whereby foundations will be constructed up to base course (Golden Brick) by GHVDC.

3 Completion of Sales Contract Start 24 month Build-Out stage

> Following the Golden Brick stage, the Completion of Sales Contract will take place. The remainder of the unit must be built within 24 months of this date.

Below is a list of documents that have informed the content of this Code and may be of use when producing detailed designs.

Oxfordshire County Council (2011) Parking Standards for New Residential Developments, Oxfordshire County Council, UK

DCLG (2007) *Manual for Streets*, Thomas Telford, UK

DCLG (2015) Technical Housing Standards, Nationally Described Space Standard, DCLG, UK

Secured By Design (2014) *New Homes: 2014*, SBD, UK

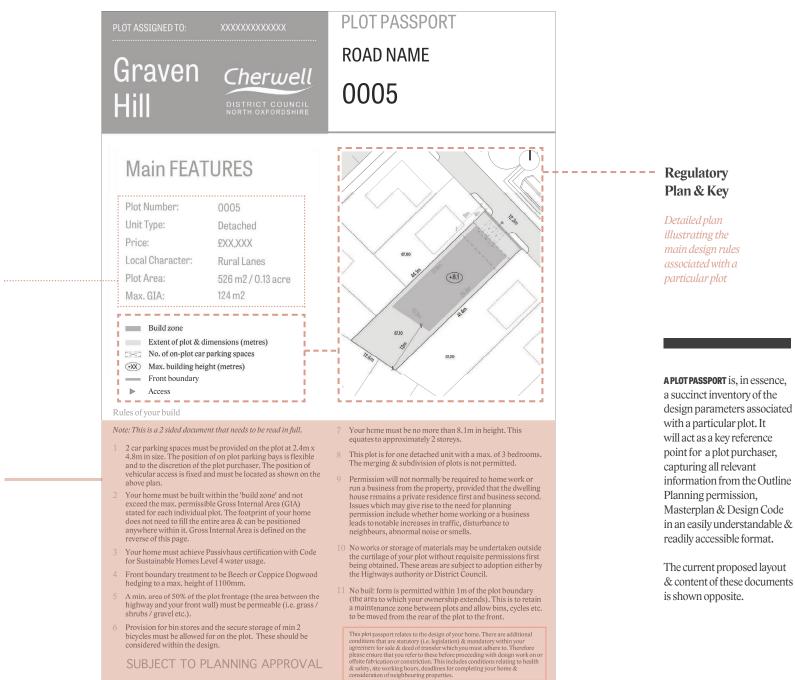
AMEC (2011) Redevelopment of MOD Bicester: Design & Access Statement, DIO, UK

Glenn Howells (2015) Materplan Development, GHVDC, UK

Cherwell District Council (2015) Local Plan 2011 - 2031, Cherwell District Counci, UK

#### CLICK HERE

to be taken to our Design Library



#### **Design Rules**

**Plot Summary** 

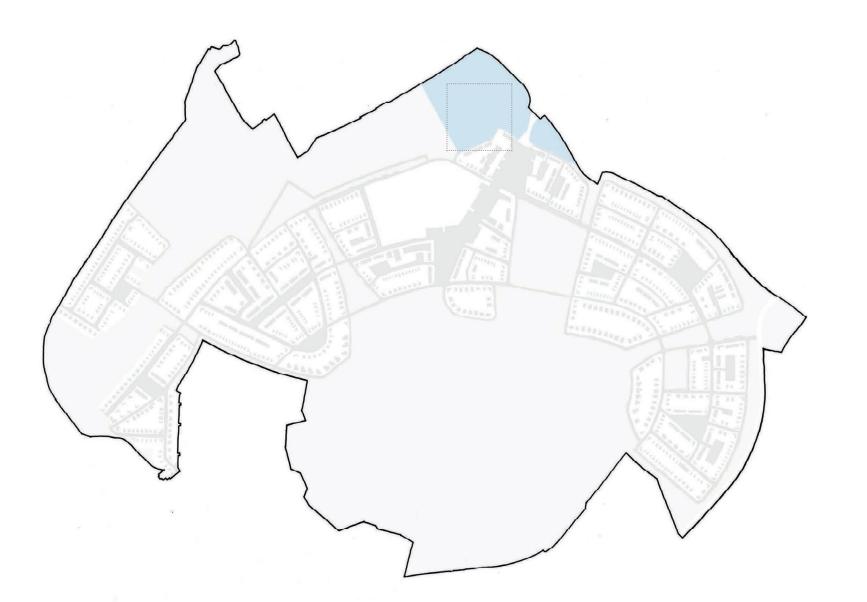
List of relevant design rules from the Code, Masterplan & Outline Planning Permission



2

THE REQUIREMENTS





## **Overview**

#### LOCATION

The 'Gateway Park' is a key amenity space located immediately adjacent to the main A41 entrance. It serves to provide a welcoming transition space upon arrival that celebrates the site's extensive natural landscapes.

#### **CHARACTER & MANAGEMENT**

The intention is to create a lush & informal park containing swales, ponds & marginal planting. The park will be owned & managed by Cherwell District Council.

Longer, meadow-like grasses will be located on higher banks that link to the surrounding meadows. Walk & cycle routes are to be as visually unobtrusive as possible, adopting meandering layouts, minimum widths (as appropriate) & natural finishes (e.g. decomposed granite) in order to retain the character desired. Timber boardwalks will add interest along routes, protect the habitats below & create ideal spots for wildlife watching.

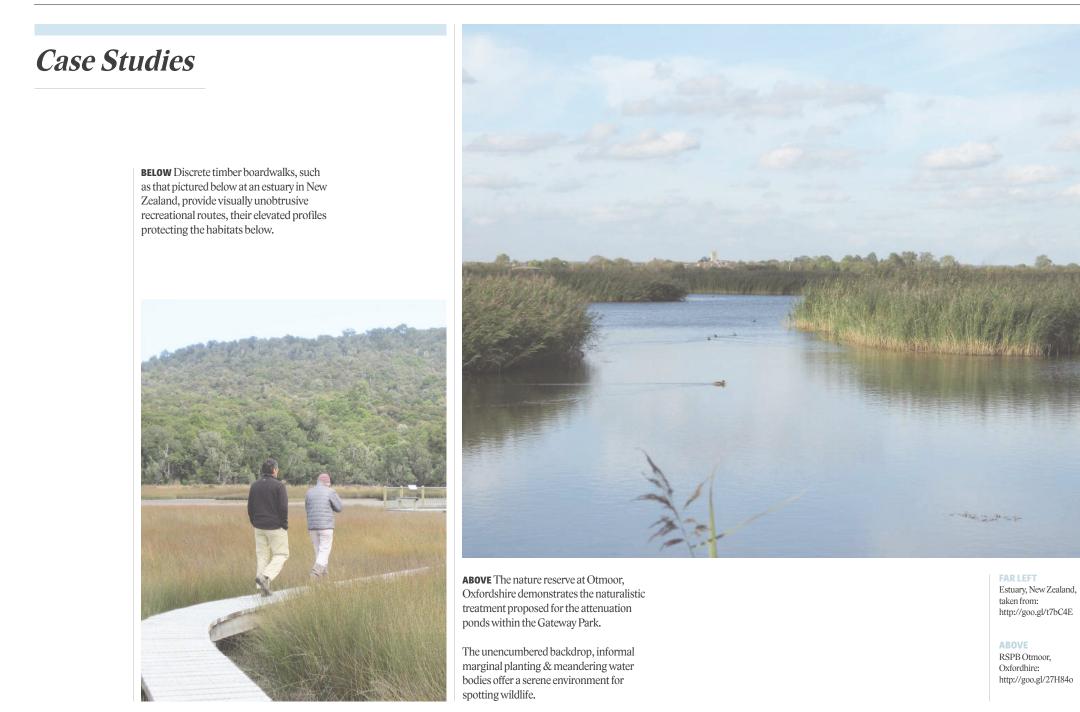
#### **DESIGN FREEDOM**

As a strategic amenity, the Gateway Park does not at this stage offer opportunities for community design.

The potential for later involvement with the on-going management, use & evolution of these spaces is to be explored

#### ABOVE Location of

Location of Gateway Park . Dashed box shows extent of plan on page 12





# **Principles**

Essential design principles required for delivery of intended character

#### ABOVE

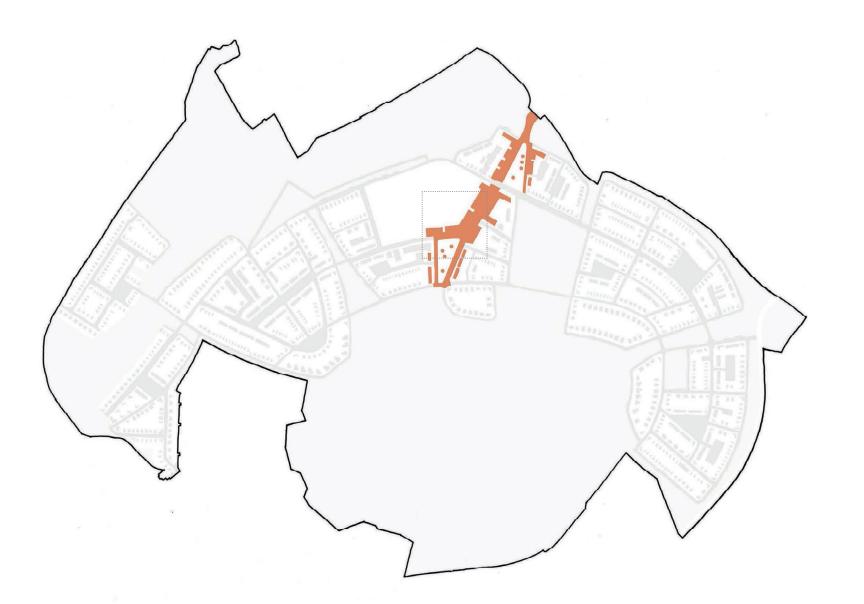
Indicative plan showing a typical area of the Gateway Park. N.B. variations will exist elsewhere

#### Footpaths & Design to be as visually unobtrusive as possible 1 Hard Landscaping Boardwalks Boardwalks to be simple design of a natural finish. Elevated to minimise impact to habitats below. Handrails only where necessary Shared Cycle/ Design to be as visually unobtrusive as possible Pedestrian Paths 2 Soft Marginal Informal design of predominantly native species Landscaping Amenity Grass Mown for multifunctional uses Longer Grass To contain wildflower species Informal arrangement of native species Shrubs Trees (Existing) To be retained Trees (New) Fluid arrangement of native species to support wildlife flight paths, pollard management Water Bodies Retention ponds as part of SUDS 3 Lighting X Any Not applicable. Wetland Park is to remain unlit **4** Furniture Benches, Bins Design to be as unobtrusive as possible / (e.g. weathered timber finish) **5** Management Amenity, Attenuation To be managed by Cherwell District Council / Pond & Ecology Pond Strategy Presumption in favour of dead wood retention (subject to safety inspections) Report & undertake repair and replacement of trees, planted areas & grass once cause of loss/damage has been established Removal of undesirable woody and herbaceous species from planted areas and grass sward Removal of leaves and fallen woody material to suitable recycling facility Remove litter, foreign materials from ponds generally to ensure flow/capacity is not impeded Annual removal of marginal & aquatic vegetation to ensure acceptable area of open water remains visible Bi-annual cutting of selected grass areas with regular cutting of remaining areas

Watering, weed control & general management of trees, woody & herbaceous planting during establishment period & beyond

#### **OFF PLOT (DEVELOPER)**





## **Overview**

#### LOCATION

The Village Centre consists of a north-south strip of high density development that adjoins the main site entrance off the A41. All principle routes converge within this space containing the majority of site facilities (including shops, offices & public greens).

#### **CHARACTER & MANAGEMENT**

The treatment of the Village Centre serves to root the development within the local context. Accordingly, a vernacular & simplified streetscape (e.g. material palettes & minimal signage) that reflects the character of nearby village high streets is to be adopted. The two 'greens' that flank the central commercial core provide important areas of public open space for events & social gatherings. These spaces are to adopt natural & informal treatments that 'anchor' the Village Centre to the surrounding wild landscape.

Freeholders/leaseholders will be responsible for the management of buildings, Oxfordshire County Council for all features within the highway & Cherwell District Council for all elements within the two greens.

#### CONTROL

As the socio-economic heart of the site, the Village Centre will be subject to the highest level of design control with plots subject to all enhanced constraints. To bring localised elements of architectural vibrancy, a number of 'rogue' plots that remain uninhibited by increased controls are proposed

#### ABOVE

Location of the Village Centre. Dashed box shows extent of plan on page 17

# **Case Studies - General Principles**

LEFT Water rill at More, London: http://goo.gl/Bmdr85



**ABOVE** A linear 'water rill' set flush into the footway at More London, creates a playful focal point along a busy movement corridor.

A similar feature is to run along the entire length of the northern village green, creating a unique sense of arrival & a visible connection between the main site entrance & commercial core.

**ABOVE RIGHT** A simple & accessible paved area provides a multi-use space for a variety of community activities e.g. markets. A similar ad-hoc space is proposed along the eastern edge of the southern green where vehicular use will be restricted on event days.

**RIGHT** The village centre at Dickens Heath demonstrates a simplified streetscene of restrained material palettes & minimal signage as here desired. N.B. a shared surface is not proposed & buildings forms are expected to be more varied.





**ABOVE** Neutral, restrained & accessible hardscape on Gough Street in San Francisco. All street clutter (e.g. cycle stands, lighting columns, benches, bins etc.) is confined to a 'functional strip' that separates vehicular from pedestrian zones in order to maintain clear & legible routes for passing traffic. Intermittent street trees also sit within this strip, adding a welcomes dose of greenery to the otherwise hard, urban treatment of this space.

#### **ABOVE LEFT**

Fiesta at Wodd St, London, from: http:// goo.gl/UDknN7

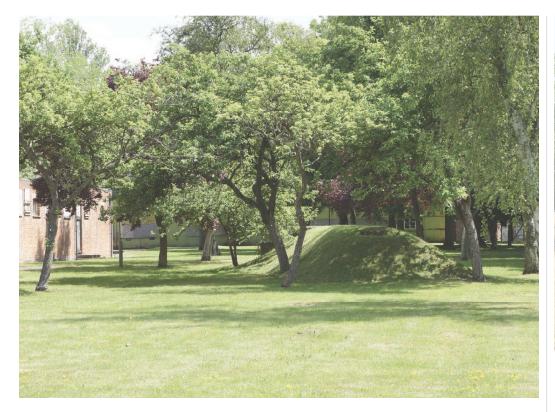
#### **BELOW LEFT**

Dickens Heath, Solihull: http://goo.gl/dkOYH3

#### ABOVE

Gough Street, San Francisco: http://goo.gl/HwFBC8

# Case Studies - Village Green Principles





#### **ABOVE** Photo of central green at

RAF Bicester Heritage.

**ABOVE RIGHT** Normand Park, London: http://goo.gl/D31zTc

#### RIGHT

Jubilee celebration, West Sussex: http://goo.gl/EHQ90E



**ABOVE LEFT** The central green at RAF Bicester Heritage exemplifies an informal social space with military features, including a discernible grassy mound of a former wartime bunker.

**LEFT** The communal greens are to provide flexible spaces for community occasions, specifically the southern green which is intended for use as a 'spill-out' zone for market street events.

ABOVE Normand Park in London demonstrates the naturalistic treatment intended for both greens. Long, tufty, meadow-like grasses & informal tree layouts offers opportunities for picnics, socialising & creative play



# **Principles**

Essential design principles required for delivery of intended character

ABOVE

showing a

Indicative plan

n.b. variations

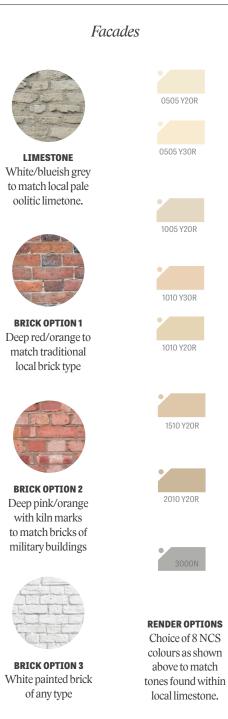
will exist elsewhere

typical area of the Village Centre

# 1 Hard $\bigcirc$ Carriageways 6m macadam with rolled silver-grey granite Landscaping chippings. Change in texture to demarcate bays..

#### **OFF PLOT (DEVELOPER)**

			11 0 0
		Pedestrian zones	Concrete ground flags. Flush 225mm silver-grey conservation kerbs to plot boundaries.
	$\bigcirc$	Cycleways	1.75m macadam with rolled silver-grey granite chippings. 75mm splayed kerb upstand to footways
2 Soft		Incidental planting	Informal planting design with wildflowers.
Landscaping		Street trees	To be planted in pits & be min. 15m high after 25yrs
		Village Greens	To be informal & naturalistic with wildflowers & meandering paths. Mown edges to carriageways to provide 'spill-out' spaces for events. Designs to deliver a visually strong & distinctive statement.
	$\checkmark$	Play Areas	Naturalistic design
3 Lighting	$\checkmark$	Columns	Standard columns with LED lantern units.
4 Furniture	$\checkmark$	Benches, Bins & Cycle Stands	Robust & functional design. Min. of 39 commercial & 235 residential cycle stands to be provided
5 Management	√	Streetscape Strategy	Watering, weed control & general management of public amenity to be undertaken by Cherwell District Council. Management of highway to be undertaken by Oxfordshire County Council.
			ON PLOT (CUSTOMER)
6 Baseline Principles	۲	Rogue Plots	Only 'baseline' principles apply to these plots.
		Building Zone	Portion of plot that may be developed n.b. all facades that face onto the public realm must incorporate windows.
		Max. Building Height (m)	Total building height (including roof) must not exceed upper values shown on plan.
	$\checkmark$	Boundary Heights	See enhanced principles below.
		Vehicular Access	Driveway access must be located as shown.
		Vehicular & Cycle Parking	No. of vehicle bays shown must be provided. Min. of 2 secure cycle spaces/dwelling must be provided.
		Waste Management	Bins should not be visible from the street & are to be kept in bin stores or within rear gardens.
7 Enhanced Principles	$\checkmark$	Specific Boundary Treatments	Front boundaries to be max. 0.9m high brick wall or railings. Side/rear boundaries to be max. 1.5m high wall with max. 0.4m trellis over.
	$\checkmark$	Material Palettes	See material options overleaf.
	X.X	Min. Building Height (m)	Total building height (including roof) must not fall below lower values shown on plan.
	-	Position of Main Facade(s)	Main facade(s) of building must be constructed on line shown (n.b. optional line for commercial units to cater for 'spill-out' areas if desired). Bay windows/porches /balconies must not protrude
			more than 1.5m beyond this line.





**SLATES** Natural or dark grey fibre-cement slates



**TILES** Any variety of red plain clay tile



STANDING SEAM Medium/dark grey standing seam metal roofing



LAT ROOF OPTIONS Felt, EPDM or Fibreglass

# *Material Palette*



The proposed palette proposed for plots within the Village Centre has been informed by the historical architecture of Bicester, local village high streets & the existing military buildings of the immediate site context.

Please note, samples may need to be submitted to the Graven Hill Development Company for approval.



#### ABOVE

Photo of archetypal buildings at Bicester town centre

#### LEFT

Photo of Signal Box at Graven Hill