## **7.3 OLD GROVE PLACE**

#### **OPEN SPACE**

#### GREEN/BLUE INFRASTRUCTURE

- Entrance Green incorporates retained tree groups, creating a mature feel and enhancing the strong sense of arrival.
- Mature trees help to visually integrate the development with the surrounding woodland context creating an attractive approach into the development.
- Woodland ground flora is proposed landscape planting scheme underneath the trees comprising a mixture of shade tolerant shrubs, ornamental grass and tall herbaceous plants to reinforce the existing woodland character and to create an attractive arrival space.

#### FRONT BOUNDARY TREATMENTS

- Formal boundary treatment softened by landscaping.
- Along the eastern side of Crow Drive, the boundary will be defined by a connecting garden wall with woodland ground flora planting in front, to soften the interface with the public realm.
- Within the courtyards, planting or hard paved areas will be used to demarcate public and private space.
- Estate railings with planting behind will define the boundary on the western side of the Entrance Green, fronting Crow Drive.
- Timber posts to demarcate the edge of the Entrance Green and other public open spaces (may also incorporate lighting).

#### STREET CHARACTER

- Relatively formal along main streets with a good degree of enclosure cars to be set back behind the building line.
- Courtyards designed as pedestrian priority with emphasis on creating welcoming shared communal spaces and reducing impact of parked cars.

Refer to Access & Movement chapter in the DAS



Example of footway/cycleway through entrance green - The Avenue, Saffron Walden



Illustrative Street Section BB – Courtyard

Illustrative Plan – Courtyard



Illustrative Street Section CC – Entrance Green





#### **ARCHITECTURAL DESIGN**



#### **BUILT FORM**

- Up to 2.5 storeys with occasional feature buildings up to 3 storeys (refer to Building Heights Parameter Plan 00556I\_ PP02).
- Mainly large detached and semi-detached houses.
- A contemporary interpretation of the Arts and Crafts style with varied elevation composition with steep pitches arranged around a shared courtyard.
- Feature elements such as wide porches, bay windows and balconies and/or brick chimneys used to emphasise key buildings and elevations.
- Large picture windows are encouraged to create strong connections between the inside and outside of buildings.

#### FACING MATERIALS

Natural coloured timber cladding

Dark stained timber cladding

- Primarily red-multi brick at base level, and a mix of white brick and timber boarding above ground level. Buff brick and dark stained timber as feature materials.
- Generally lighter colours, with darker materials used for emphasis on landmark/corner dwellings and garages.
- No change of material for connecting garden walls to create an appearance of continuity.

#### Primary Materials - Base



Roof	
	APPENDING TO THE PARTY IN
	ANSAN ANDER DER PERSON
Red tiles	Dark grey tiles



Precedent of floating garden wall – The Avenue, Saffron Walden



Precedent of courtyard housing – The Avenue, Saffron Walden

Indicative use of material palette

## **7.3 OLD GROVE PLACE**





# 7.4 INNOVATION & EDUCATION HUB

#### **URBAN DESIGN**

#### **KEY LAYOUT PRINCIPLES**

- Primary school located at the heart of the hub, with safe crossing points to the Village Centre. It must have a secure boundary.
- The school drop-off will be accessed from the employment entrance, however will be segregated off to provide a safe childfriendly environment.
- Office, research and development and workshop uses, creating the • opportunity for a varied, enterprising community of businesses.
- Relatively formal, generally orthogonal groupings of buildings, • defining a series of courtyard spaces varying in both size and shape with some containing retained trees.
- Key existing buildings retained and reused.
- Buildings maximise active frontage to Crow Drive on the western • edge and form an attractive entrance to the innovation and education campus.
- Retained cottages create a focus for views south along Crow Drive. •

#### FRONTAGE CHARACTER

#### **Dual Employment Frontage**

- Buildings are dual aspect, with views to Crow Drive and existing woodlands.
- Carefully landscaped parking areas to the inward facing and side • frontages of buildings.

#### Courtyard Employment Frontage

- Employment uses of varying types and size.
- Create sense of enclosure around open space.
- Located at different angles to each other to create informal-shaped • block.
- Carefully landscaped shared courtyard with parking and loading areas in front of buildings.

#### **School Frontage**

- The building aligned with the existing street frontage which also • provides sufficient drop-off area.
- Building frontage design to respond to the important views from • the Village Green and provide sufficient level of privacy.

#### **BOUNDARY TREATMENTS**

- Hard paved and/or planted area at front of buildings providing • privacy strip.
- Tall brick walls to screen service areas. Secure fence around the school site.
- Timber/metal posts used to define pedestrian zones to protect • trees and planted areas within courtyard areas (may also incorporate lighting around green edges).



Eastern Hub – Illustrative Masterplan



Eastern Hub - Extract from Layout Plan

#### Key

	Dual employment frontage
	Courtyard employment frontage
	School frontage
	Indicative zone for office/small enterprise
	Indicative zone for light industry
	Indicative secure school ground
$\rightarrow$	Indicative parcel access
	Indicative school entrance
	Indicative loading for larger vehicles
	Indicative internal street
	Shared footway/cycleway
Р	Indicative car park
	Existing tree to be retained
	Existing building to be retained and refurbished
	Indicative pocket green

- - Secure school boundary

# 7.4 INNOVATION & EDUCATION HUB

#### **OPEN SPACE**

#### GREEN/BLUE INFRASTRUCTURE

- Single species trees set at regular intervals along Crow Drive to define strong avenue character.
- Pockets of existing trees retained and enhanced as amenity green spaces within the layout.
- Courtyard spaces sensitively landscaped to provide opportunities for social interaction and avoid over dominance of car parking.

#### STREET CHARACTER

- Parking areas broken up with green spaces to accommodate landscape and/or tree planting and minimise visual impact.
- Appropriate traffic calming measures included within the access roads and parking areas to limit vehicle speeds and encourage pedestrian and child friendly environment.
- Appropriate levels of parking provided alongside secure and convenient cycle storage facilities.
- Service access for light industrial uses located to the back/side of buildings, with main building entrance for pedestrians at front, accessed from central courtyard space.
- School building to be set back from Crow Drive to provide a generous drop-off and temporary parking area.
- The size and location of service areas and waste storage facilities carefully considered and discretely placed to avoid visual intrusion and nuisance from daily use.







Refer to Access & Movement chapter in the DAS

Street section EE - Crow Drive

Street plan – school drop-off and Crow Drive



## 7.4 INNOVATION & EDUCATION HUB

### **ARCHITECTURAL DESIGN**

#### BUILT FORM

- Up to 3 storeys in height (refer to Building Heights Parameter Plan 0055bI-PP02).
- Simple forms, inspired by large rural buildings, with contemporary detailing.
- Massing and roof form carefully controlled • buildings appearing over bulky.
- Sensitive retained buildings as well as new residential buildings on the other side of Crow Drive.

#### FACING MATERIALS

Predominantly dark coloured metal cladding • and large glazed areas, particularly at building entrances.



 Suitable for demarcating the edge of key public

incorporated into design

green spaces • Lighting can be



#### Primary Materials



Dark grey or black Large areas of metal cladding glazing

#### Secondary/Feature Materials



Timber cladding





panels

Flat roofs



Indicative use of material palette



Innovation Hub at Alconbury Weald, Huntingdon

Village Centre

 $\Delta$ 

Z

**7.5 VILLAGE CENTRE** 

The Village Centre forms the beating *heart of the development* where both employment and community uses come together. It sits to the north of the Fort, encompasses the retained and refurbished 'Q' buildings as well as providing a new village green to the east of Penney Road. The village centre will provide a *range of uses and facilities* for the new community including a food store, café, community hub (with space for a GP consulting room), a gym, flexible work space, a nursery as well as space which can accommodate older people's housing.

Illustrative view looking towards the Village Green

& Local FRESH

Café





## **7.5 VILLAGE CENTRE**

#### **URBAN DESIGN**

#### KEY LAYOUT PRINCIPLES

- Retain and refurbish existing buildings of historic and architectural interest as the key feature for the Village Centre.
- New buildings to the west of Grade II listed building Q14 should have full 3 storeys, with the 4th storey set back in order to respect the setting and protect the view of its western elevation from the Fort (more detailed guidance can be found in the Village Centre Design Guide).
- Maximise active frontage to all areas of public realm and minimise gaps between buildings to ensure good degree of enclosure.
- Buildings at key locations within the plan, such as at gateways and buildings terminating vistas, are defined as feature buildings. These should have a distinct character reflecting the importance of their location and proximity to existing historic buildings, whilst also providing a means of effective wayfinding.
- Building frontages facing the Village Square and Village Green should be distinctive in both form and silhouette, providing an appropriate back-drop to these important spaces that lie at the heart of the new community.
- Potential older people's housing area to be located adjacent to the Village Centre, with potential communal facilities fronting the Village Centre.

#### FRONTAGE CHARACTER

Mixed-Use and Employment Frontage

- Continuous, formal frontage facing onto key public spaces.
- Consists of **mixed-use** and **office** blocks with a consistent building line and where possible with gaps only for access to parking and pedestrian routes.
- It is encouraged that all buildings are dual aspect to provide sufficient overlooking onto public space and shared parking areas.
- Similar setback to create a strong rhythm and continuous building line.
- Separate buildings entrances for residential and other uses to be located on the outward-facing elevation
- Unified roof profile.
- Car parking typologies: **communal**, **on-street visitor**.

#### CAR PARKING TYPOLOGIES Typologies

#### DESCRIPTION

#### Communal



• Communal parking areas are used predominately for apartment blocks and employment buildings

#### For Residential buildings:

- Parking areas will be located to the rear of buildings, away from key public spaces and frontages.
- Residential parking areas will contain no more than 20 parking bays.
- There should be no more than 5 spaces in a row without landscaping between them.
- Walls should be used to clearly define the entrances to rear parking courts as well as screen parked cars from the street and create a good sense of enclosure.
- Parking areas will be overlooked and appropriately lit at night

#### For Mixed-Use and Employment buildings:

- A larger number of cars can be served from a single parking area, but it would need to be sensitively designed and considered on a case-by-case basis.
- No more than 6 spaces in a row without landscaping
- The layout of parking to be formed to create a rhythm to the landscape
- Parking areas to be positioned behind buildings and away from key frontages to avoid dominating public open spaces with vehicles.

#### On-Street Visitor Parking



- Designed to prevent parking on verges and pavements
- Max. 3 parallel parking bays without landscaping between them
- Marked bays should be a minimum 2.4m wide x 6m long



Illustrative Masterplan



#### Key

>	Important view
	Mixed-Use and Employment Frontage
*	Feature building
$\rightarrow$	Indicative access onto development parcel
	Shared footway/cycleway
	Traffic calming junction measure
Р	Indicative shared courtvard with car parking

	Existing tree to be retained where possible
	Grade II listed building and setting
	Existing building to be retained
	Village Square
	Village Green
*	Indicative location of LEAP



#### **OPEN SPACE**

#### GREEN/BLUE INFRASTRUCTURE

- Create a clear sequence of open spaces from the Fort to the Green Link, including the Village Square and Village Green, with continuous shared footway/cycleway with a minimum width of 3m wide.
- The Village Green should have some formality in its layout, responding to the surrounding built environment, but also reflecting the more naturalistic character typical of the commons and greens found within the local area.
- Outdoor facilities: an equipped play area to be provided in the Village Green.
- A minimum of 5m green space should be provided between QinetiQ's fence line and proposed footway/cycleway.

#### STREET CHARACTER

- General character: relatively formal with a good degree of enclosure.
- Vehicular accesses onto the mixed use and employment areas should be located from Penney Road and Lennard Jones Road.

#### FRONT BOUNDARY TREATMENTS

- Railing on low wall with hedge.
- No boundary, set back planted area or low wall for mixed use Village Centre and Employment.
- Wooden posts for Village Green.
- 1m service zone minimum clear of vegetation is required between the QinetiQ's demise and fence line. QinetiQ's fence line should sit within their demise.

Refer to Access & Movement chapter in the DAS



![](_page_9_Figure_16.jpeg)

Street Section FF - Village Green

## **7.5 VILLAGE CENTRE**

Prement Mixed use

## **7.5 VILLAGE CENTRE**

#### **OPEN SPACE**

![](_page_10_Figure_2.jpeg)

Street section GG - Crow Drive and interface with QinetiQ

jtp

#### **ARCHITECTURAL DESIGN**

#### BUILT FORM

• 3-4 storeys, with mixed-use area up to 4 storeys; employment area and residential area up to 3 storeys. (Refer to Building Heights Plan 00556I-PP02).

#### ARCHITECTURAL CHARACTER

- High-quality contemporary design, taking inspiration from the retained buildings in the Village Centre.
- Buildings adjacent to retained buildings should have flat roofs. Remaining buildings in the village centre should have a mixture of pitched and flat roofs.
- Both the residential and employment buildings in the village centre should be consistent in architectural style and language.

#### MATERIALS

- Red brick and red multi-brick as primary material, secondary use of white painted bricks and timber cladding. Red clay tiles and greys tiles to be used for pitched roofs.
- Crittall style windows on the new buildings and crittall style windows with mandatory T-shape glazing bars on the refurbished buildings in the Village Centre.

#### Primary Materials

![](_page_11_Picture_11.jpeg)

Red Brick

#### Secondary/Feature Materials

Red-multi bricl

Grey slate tiles

![](_page_11_Picture_14.jpeg)

Roof

Red tiles

![](_page_11_Picture_15.jpeg)

#### ,

![](_page_11_Picture_17.jpeg)

Metal: Brown -Red

![](_page_11_Picture_19.jpeg)

Apartments with ground floor mixed-use (Great Kneighton, Cambridge)

![](_page_11_Picture_21.jpeg)

Precedent image of refurbished listed building (Barry, Wales)

![](_page_11_Figure_23.jpeg)

Indicative use of material palette

![](_page_11_Picture_25.jpeg)

Older people's living accommodation (Lenton Flats, Nottingham)

![](_page_11_Picture_27.jpeg)

Precedent image of ground floor use (Nieuwe Park, Rozenburgschool)

## **7.5 VILLAGE CENTRE**

![](_page_11_Picture_32.jpeg)

Glass lift abutting existing building (Hackney Town Hall)

![](_page_12_Picture_0.jpeg)

![](_page_12_Picture_1.jpeg)

#### **URBAN DESIGN**

#### **KEY LAYOUT PRINCIPLES**

- Similarly sized, linked homes fronting onto a series of intimate shared-surface streets running northsouth through the parcel.
- A small number of detached and semi-detached homes creating more informal frontage to public green space.
- Small apartment blocks along the southern edge of the parcel create a sensitive transition to the larger blocks in the Village Centre.
- Level changes sensitively incorporated into the layout through careful arrangement of homes and well-considered retaining walls within back gardens.
- Feature buildings with special architectural treatment to be used in key locations.

#### FRONTAGE CHARACTER

#### **Regular** Frontage

- Consists mainly of terraced dwellings or apartment blocks with detached units at key locations (e.g. on corners).
- Small spacing between buildings and similar setback to create strong building line along the primary vehicular route.
- Car parking typologies: communal/shared courtyard.

#### **Stepped** Frontage

- Consists of predominantly detached and semidetached houses.
- Building line steps to create visual interest and variation in the street scene.
- Varied roof profile.
- Car parking typologies: on-plot corner, on-plot between buildings.

#### Mews Frontage

- Strong repetition of terraced dwellings of similar forms.
- Minimal spacing between homes to create a high degree of enclosure.
- Similar setback to create strong rhythm and building line.
- Unified roof profile.
- Car parking typologies: **on-plot between** dwellings, on-street visitor parking.

#### CAR PARKING TYPOLOGIES

#### **TYPOLOGIES**

#### **On-Plot** Corner

![](_page_13_Picture_26.jpeg)

Located around the corner from main dwelling frontage

DESCRIPTION

- Usually serves individual dwelling on corner plot, but may serve more than one (e.g. a terrace of houses) providing up to a maximum of 4 spaces
- Parking bay(s) enclosed by brick garden wall

#### On-Plot Between Dwellings

![](_page_13_Picture_31.jpeg)

- Parking spaces must be set behind the building line (an exception may be made where the dwelling is set back from the back of footway by more than 4m)
- Parking spaces will be provided in either car ports or integral garages
- Along the mews streets, structures to accommodate parking spaces must be attached or linked to the property, with the exception of housing fronting onto green space, where detached garages may be permitted
- No more than two cars allowed in tandem parking

Communal/ Shared Courtyard

- Communal parking areas are used predominately for apartment blocks
- Parking areas will contain no more than 20 parking bays.
- There should be no more than 5 spaces in a row without landscaping between.
- At the entrance(s) to rear parking courts, walls should be used to clearly define the entrance, screen parked cars from the street and create a good sense of enclosure.

![](_page_13_Picture_41.jpeg)

- Designed to prevent parking on verges and pavements
- Max. 3 parallel parking bays without landscaping between
- Marked bays should be a minimum 2.4m wide x 6m long

![](_page_13_Picture_45.jpeg)

![](_page_13_Picture_46.jpeg)

# 7.6 VILLAGE MEWS

## 7.6 VILLAGE MEWS

#### **OPEN SPACE**

#### GREEN/BLUE INFRASTRUCTURE

- Street trees and incidental landscaping planted regularly within the street scene.
- No significant green spaces within development parcel – access to surrounding green areas prioritised.

#### FRONT BOUNDARY TREATMENTS

- Generally narrow, hard paved or planted area at front of homes providing privacy strip.
- Timber posts to define public open spaces • (may also incorporate lighting around green edges).
- Low native hedge with planting behind.

#### FRONT BOUNDARY TREATMENTS

#### **TYPOLOGIES** DESCRIPTION No Boundary • Plot boundary defined by distinct change of surface material (e.g. cobbles) or by the edge of private lawn in front of the building Planting Area or Hard Paved • Height – maximum 600mm • Set back maximum 2m • Low clipped hedge with shrub planting • Suitable along the Mews shared surfaced streets Timber Posts • Height – maximum 800mm • Suitable for demarcating the edge of key public

green spaces • Lighting can be incorporated into design

![](_page_14_Picture_12.jpeg)

EXAMPLES

![](_page_14_Picture_13.jpeg)

STREET CHARACTER

•

•

•

• Mews streets designed to naturally slow

traffic and encourage social interaction by their restricted width (carriageway max. 5m

inclusion of street trees/landscaped areas.

Vehicles parked in between homes, behind

Limited on-street parking for visitors only.

No white lines to demarcate carriageway

Refer to Access & Movement chapter in the DAS

building line, typically in car ports.

wide), attractive shared-surface character and

![](_page_14_Picture_17.jpeg)

![](_page_14_Picture_18.jpeg)

![](_page_14_Picture_19.jpeg)

Illustrative street section JJ - Mews street

![](_page_14_Picture_23.jpeg)

#### **ARCHITECTURAL DESIGN**

#### BUILT FORM

- Simple architectural forms and limited materials with repeated rhythm gives the area a strong character.
- More urban forms with clean lines, softened by subtle textures and layering of façade elements.
- Houses of up to 3 storeys, and 3 storey apartments on southern edge.
- Narrow fronted house types with street-• facing gables prevalent, plotted as linked or semi-detached.
- On the mews street, street-facing gables will • be no wider than 4.5m and parking zones a maximum of 3.5m.
- Along the mews streets, smaller private rear gardens are encouraged with minimum depths of 5m.
- Where smaller private rear gardens are • proposed (less than 8m deep) an alternative private amenity space will need to be included i.e. first floor terrace.
- Where larger private rear gardens are • proposed (more than 8m deep), more conventional house types may be utilised.

#### FACING MATERIALS

• White brick for the top, and red multibricks and pale buff bricks used as base materials, with lighter materials used in narrower streets to reflect more light.

![](_page_15_Figure_12.jpeg)

#### ALTERNATIVE PLOT LAYOUT OPTIONS

![](_page_15_Figure_14.jpeg)

![](_page_15_Figure_15.jpeg)

![](_page_15_Figure_16.jpeg)

![](_page_15_Picture_17.jpeg)

![](_page_15_Picture_18.jpeg)

Precedent of visitor parking on a Mews street (Denwenthorpe)

0 X64 XNJ

Precedent image showing a narrow fronted housetype with first floor terrace (Newhall)

## 7.6 VILLAGE MEWS

![](_page_15_Picture_24.jpeg)

![](_page_15_Figure_25.jpeg)

Indicative use of material palette

![](_page_15_Picture_27.jpeg)

Precedent of lighter materials used to reflect more light (Lavenham, Housing by Project Orange).

![](_page_16_Picture_0.jpeg)

![](_page_16_Picture_1.jpeg)

Anisbirches Walk is the central green link through the site, connecting and drawing in the two ancient woodland edges at either end. This Green Link provides the setting for the main east–west pedestrian and cycle route through the village, with houses nestled within the existing mature landscape. A staggered arrangement of built form on either side of the Green Link creates an *interesting and varied* frontage while providing good levels of passive surveillance to ensure *a safe and welcoming space* at all times.

*Indicative density range: 35–45 dpb* (refer to indicative density plan in Chapter 6.2)

- I Total To

Illustrative view along green link showing shared pedestrian/cycle route

![](_page_16_Picture_5.jpeg)

#### **URBAN DESIGN**

#### **KEY LAYOUT PRINCIPLES**

- Dwellings of various sizes forming an active frontage to the main east-west Green Link.
- Predominantly large detached houses on the northern side, arranged at a variety of angles in a consciously informal manner and with no vehicular access along the green space.
- Generally smaller, semi-detached homes on the southern side, arranged in a more ordered way and forming frontage to a series of private drives along the green edge.
- Homes along the northern edged are accessed via shared courtyards at the rear.

#### FRONTAGE CHARACTER **Staggered** Frontage

- Detached dwellings of different form
- A mix of wider and narrower gaps between • buildings reinforces informal character of the setting.
- Varying set back from the public realm creates organic frontage line.
- Buildings positioned at different angles to the space or route they face, and to each other.
- Optimising views of green space.
- Car parking typologies: on-plot corner; shared • courtyard; rear parking courts (for apartments only).

#### Stepped Frontage

- Predominantly **semi-detached** with **detached** dwellings in key locations (e.g. at corners, location terminating views from green space).
- Building line steps to create visual interest and • variation in the street scene.
- Varied roof profile.
- Active house frontages overlook the Green Link • and provide natural surveillance.
- Car parking typologies: **on-plot corner; on-plot** between dwellings; rear parking courts (for apartments only).

#### CAR PARKING TYPOLOGIES

#### **TYPOLOGIES**

#### On-Plot Corner

![](_page_17_Picture_23.jpeg)

On-Plot

Between Dwellings

Shared

Courtyard Parking

- Located around the corner from main dwelling frontage
- Usually serves individual dwelling on corner plot, but may serve more than one (e.g. a terrace of houses) providing up to a maximum of 4 spaces

DESCRIPTION

Parking bay(s) enclosed by brick garden wall

#### • Parking spaces must be set behind the building line (an exception may be made where the dwelling is set back from the back of footway by more than 4m)

- Parking spaces will be provided in either car ports or integral garages
- Along the mews streets, structures to accommodate parking spaces must be attached or linked to the property, with the expectation of housing fronting onto green space, where detached garages may be permitted
- No more than two cars allowed in tandem parking
- Parking to be accommodated in allocated spaces, car ports or detached car barns
- · Parking spaces to be accessed from the shared courtyard space
- Max 4 spaces in a row separated by landscape
- No more than 6 spaces in a single car port or barn structure
- Natural surveillance required from adjacent dwellings
- Flat over garage (FOG) house types are encouraged with this parking arrangement to provide natural surveillance

#### Rear Parking Courts

![](_page_17_Picture_38.jpeg)

- Communal parking areas are used predominately for apartment blocks
- Parking areas will contain no more than 10 parking bays.
- There should be no more than 5 spaces in a row without landscaping between.
- At the entrance(s) to rear parking courts, walls should be used to clearly define the entrance, screen parked cars from the street and create a good sense of enclosure.

![](_page_17_Picture_43.jpeg)

![](_page_17_Figure_44.jpeg)

Feature building \* Indicative access onto development parcel

Indicative internal street

Indicative edge street

- Indicative mews street Shared footway/cycleway
- Existing trees to be
- retained where possible \*

Indicative location of LEAP

# 7.7 ANISBIRCHES WALK

Indicative location of \* MUGA Stepped frontage Staggered frontage

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## 7.7 ANISBIRCHES WALK

#### **OPEN SPACE**

#### GREEN/BLUE INFRASTRUCTURE

- Green Link incorporates retained mature trees as focal points, helping to create a mature landscape from the start.
- Planting has an informal, semi-natural character providing a soft transition to the built form.
- Naturalistic play area included within the space encourages social interaction.
- Green Link is the key shared pedestrian/cycle route through the village, providing good, off-road connections to the Village Green, Village Centre and the Fort.

#### STREET CHARACTER

- No vehicular access along the northern edge of the Green Link. Access to homes to be provided from the north.
- Informal, edge streets on the southern edge of the space provide limited access to homes without through traffic to limit impact on quality of space.
- Vehicular access to green areas to be restricted through careful landscaping and appropriate use of timber bollards.

#### FRONT BOUNDARY TREATMENTS

- Generally open and naturalistic.
- Boundary defined by estate railings and/or native hedge to provide privacy and simultaneously maintain openness.
- Timber posts used to protect edges of Green Link from encroachment of vehicles (may also incorporate lighting).
- Low woodland ground flora and shrub planting, planted in drifts beneath trees to create strong naturalistic green setting.

Refer to Access & Movement chapter in the DAS

![](_page_18_Figure_17.jpeg)

Section KK – The Green Link

![](_page_18_Figure_19.jpeg)

#### DESCRIPTION

- Height maximum 600mm
- Set back maximum 2m
- Clipped native hedge with shrub planting
- Suitable along the mews shared surfaced streets
- Height maximum 800mm • Suitable for demarcating the edge of key public green spaces
- Lighting can be incorporate into design

#### **EXAMPLES**

![](_page_18_Picture_31.jpeg)

![](_page_18_Picture_32.jpeg)

#### **ARCHITECTURAL DESIGN**

#### BUILT FORM

- Up to 2.5 to 3 storey homes to the north of the Green Link, up to 3 storey homes to the south (refer to Building Heights Parameter Plan 00556I\_PP02).
- High-quality, contemporary homes with generous balconies and large areas of glazing overlooking the Green Link.
- Mainly detached and semi-detached dwellings.
- Occasional, small villa-style apartment buildings on key corners.

#### FACING MATERIALS

• Predominantly red bricks with dark stained or white painted timber cladding above ground floor, to emphasise horizontality, with special materials used to highlight feature buildings.

#### Primary Materials – Top

![](_page_19_Picture_10.jpeg)

![](_page_19_Picture_11.jpeg)

Dark stained timber cladding

![](_page_19_Picture_13.jpeg)

![](_page_19_Picture_15.jpeg)

![](_page_19_Picture_17.jpeg)

![](_page_19_Picture_19.jpeg)

![](_page_19_Picture_21.jpeg)

Red tiles

![](_page_19_Picture_22.jpeg)

Dark grey tiles

![](_page_19_Picture_24.jpeg)

![](_page_19_Picture_25.jpeg)

Indicative use of material palette

![](_page_19_Picture_27.jpeg)

Precedent for Green Link fronted house type (Alford Road, Cranleigh)

![](_page_19_Picture_29.jpeg)

Precedent for Green Link fronted house type (Alford Road, Cranleigh)

![](_page_19_Picture_31.jpeg)

## **7.7 ANISBIRCHES WALK**

![](_page_20_Picture_0.jpeg)

![](_page_20_Picture_1.jpeg)

## 7.8 BEAUMONT GLADE & DUTCHMORE WOOD

#### **URBAN DESIGN**

#### KEY LAYOUT PRINCIPLES

- Large detached and semi-detached homes fronting onto ancient woodland along northern edges of the parcels.
- Smaller link-detached and semi-detached homes form regular frontage to central streets. Small apartment blocks define key street corners in Dutchmore Woods.
- In Beaumont Glade, groups of mews style houses around a series of north-south shared-surface streets with a more intimate character create views out towards the woodland edge and the Green Link.
- In Dutchmore Woods, semi-detached and terraced homes group around shared-surface streets and spaces in the centre of the parcel.
- Level changes sensitively incorporated into the layout through careful arrangement of homes and well-considered retaining walls within back gardens.

#### FRONTAGE CHARACTER

#### **Regular** Frontage

- Semi-detached dwellings along primary vehicular routes with apartment blocks and large detached units in key locations (e.g. at corners).
- Consistent typology and arrangement.
- Aligned with the street frontage to create strong building line along the primary vehicular routes, with some exceptions to define areas of special character.
- Minimal gaps between buildings to create a high degree of enclosure.
- Garages and driveways set behind the building line, with some use of rear parking.
- Car parking typologies: **On-plot frontage, on-plot between dwellings, communal.**

#### Staggered Frontage

- Predominantly **detached** and occasional **semi-detached** dwellings of different form.
- A mix of wider and narrower gaps between buildings to reinforce informal character.
- Variation in setback from the public realm to create organic frontage line.
- Buildings positioned at different angles to the space or route they face, and to each other.
- Frontage may include the rear/flank walls of garages, linked to dwellings by garden walls.
- Optimising views of green space from plot.
- Car parking typologies: on-plot corner, on-plot between dwellings, shared courtyard, forecourt.

![](_page_21_Picture_24.jpeg)

Illustrative Masterplan – Beaumont Glade

![](_page_21_Figure_26.jpeg)

Extract from Layout Plan – Beaumont Glade

*	Feature building	-	Indicative internal street		Existing trees to be retained where possible	
$\rightarrow$	Indicative access onto development parcel		Indicative edge street Indicative mews street	*	LEAP	
$\rightarrow$	Indicative access to QinetiQ site		Traffic calming junction measure Shared footway/cycleway		Regular frontage Staggered frontage	

![](_page_21_Picture_31.jpeg)

Illustrative Masterplan - Dutchmore Wood

![](_page_21_Picture_33.jpeg)

Extract from Layout Plan – Dutchmore Wood

## 7.8 BEAUMONT GLADE & DUTCHMORE WOOD

#### **OPEN SPACE**

#### CAR PARKING TYPOLOGIES

#### **TYPOLOGIES**

#### On-Plot Frontage

![](_page_22_Figure_5.jpeg)

• Max 4 spaces in a row separated by landscape

DESCRIPTION

- Not to serve more than 8 dwellings on any one side of the street
- Chevron parking can be used if desired

#### On-Plot Corner

![](_page_22_Picture_10.jpeg)

- Located around the corner from main dwelling frontage
- Usually serves individual dwelling on corner plot, but may serve more than one (e.g. a terrace of houses) providing up to a maximum of 4 spaces
- Parking bay(s) enclosed by brick garden wall

#### On-Plot Between Dwellings

- Parking spaces must be set behind the building line (an exception may be made where the dwelling is set back from the back of footway by more than 4m)
  - Parking spaces will be provided in either car ports or integral garages
  - Along the internal streets, structures to accommodate parking spaces must be attached or linked to the property, with the expectation of housing fronting onto green space, where detached garages may be permitted
  - No more than two cars allowed in tandem parking

#### Forecourt

![](_page_22_Figure_20.jpeg)

- Applies to large dwellings only
- Front boundary will be walls, railings or hedgerows
- Gates to be inward opening
- Maximum width of access from street 3m

#### TYPOLOGIES

#### Communal/Shared Courtyard

- Communal parking areas are used predominately for apartment blocks
  Parking areas will contain no more than 20 parking bays.
  - There should be no more than 5 spaces in a row without landscaping between.

DESCRIPTION

 At the entrance(s) to rear parking courts, walls should be used to clearly define the entrance, screen parked cars from the street and create a good sense of enclosure.

![](_page_22_Picture_30.jpeg)

Street plan – Edge street

![](_page_22_Picture_32.jpeg)

Street section LL – Edge street

## Public footpath incorporated within the 15m wide buffer to the Ancient Woodland.

Where existing mature trees can be retained they

should provide a focus for 'Pocket Greens' within

• Play area and SuDS ponds incorporated within green space to north of parcels.

GREEN/BLUE INFRASTRUCTURE

#### STREET CHARACTER

the centre of the parcels.

- Lanes along the woodland edge should feel secure and private and not be continuous
- Vehicular access to green areas to be restricted through careful landscaping and appropriate use of timber bollards.

Refer to Access & Movement chapter in the DAS

![](_page_22_Picture_42.jpeg)

## 7.8 BEAUMONT GLADE & DUTCHMORE WOOD

#### **ARCHITECTURAL DESIGN**

![](_page_23_Figure_2.jpeg)

#### FRONT BOUNDARY TREATMENTS

- Transitioning from open and naturalistic to the north of the parcels to more formal in the south.
- Low hedge/area of shrub planting along northern woodland edge.
- Picket fence with hedge or shrub planting behind, transitioning to low wall with hedge.
- Timber posts to protect edges of open space and prevent inappropriate vehicular access.

#### **BUILT FORM**

- High-quality homes of contemporary design with a distinctly rural character.
- Principally 2 storey with some 2.5/3 storey dwellings providing added emphasis on key corners or acting as vista stoppers.
- A mix of detached, link-detached, semi-detached and terraced dwellings.

#### FACING MATERIALS

Predominantly buff and dark blue brick or dark stained timber cladding with red-multi brick as a feature material. Variety of materials used across both parcels, responding to the transition between adjacent parcels.

![](_page_23_Picture_14.jpeg)

![](_page_23_Picture_15.jpeg)

![](_page_23_Picture_16.jpeg)

![](_page_23_Picture_17.jpeg)

Precedent for woodland edge (Ockford Park, Godalming)

Red tiles

Dark grey tiles

Precedent for materials (Derwenthorpe, York)

## **7.9 MATERIALS**

#### MATERIAL PALETTE

Sustainability, local distinctiveness and variety are three key principles influencing the exterior palette of materials at Fort Halstead. By using local materials, the character and identity of the area is reinforced and the need for material transportation is reduced. Depending on context, contemporary materials can be used to produce innovative and unique buildings. Materials vary throughout the new village to reinforce the different character areas within the site and create a legible place.

The table on the following page demonstrates the combination of different character areas within Fort Halstead.

![](_page_24_Figure_4.jpeg)

![](_page_24_Picture_7.jpeg)

	TOP	I	BI	ASE	FEATURE			
Gateway Hamlets		<ul> <li>Dark stained timber cladding – Western Gateway</li> <li>Natural coloured timber cladding – Eastern Gateway</li> </ul>	Dark stained timber Western Gateway	Iral coloured timber ern Gateway			Red-multi brick	Dark grey or black metal cladding
Old Grove Place	Floating wall	<ul> <li>TOP</li> <li>Natural coloured timber cladding</li> <li>White brick</li> <li>BASE</li> <li>Red-multi brick</li> </ul>	White brick Natu	Iral coloured Fer cladding	Red-multi brick		Pale buff brick	Dark stained timber cladding
Innovation & Education Hub		<ul> <li>Predominantly dark coloured metal cladding and large glazed areas, particularly at building entrances</li> </ul>	Dark grey or black metal cladding	e areas of ng			Timber cladding	Dark stained timber cladding
Village Centre		<ul> <li>Primary use of red brick and red multi-brick, secondary use of white painted bricks and timber cladding. Red clay tiles and greys tiles to be used for pitched roofs.</li> </ul>	Red brick Red-t	multi brick			White brick	Timber cladding
Village Mews		TOP • White brick BASE • Pale buff brick • Red-multi brick	White brick		Red-multi brick	Pale buff brick		
Anisbirches Walk		<ul> <li>TOP</li> <li>Dark stained timber cladding</li> <li>Naturally stained or white painted weatherboard</li> <li>BASE</li> <li>Red-multi brick</li> </ul>	Dark stained timber cladding Natu	urally stained or white ted weatherboard	Red-multi brick			
Beamount Glade & Dutchmore Wood		TOP Pale buff brick Dark stained timber cladding BASE Pale buff brick Blue brick	Pale buff brick		Dark stained timber I cladding	Blue brick	Red-multi brick	

#### ROOF

![](_page_25_Picture_4.jpeg)

![](_page_26_Picture_0.jpeg)

# 8. ACCESS & MOVEMENT

![](_page_27_Picture_1.jpeg)

## **8.1 ACCESS STRATEGY**

#### HIGHWAY ACCESS STRATEGY

The Crow Drive access from Polhill will remain as the main access to and from the new village at Fort Halstead. A new roundabout has been designed to improve the quality of that access and the design has been agreed in principle with Kent County Council Highways (see drawing on p.168). The scheme will improve access and egress to/from the site and has sufficient capacity to cater for the whole Fort Halstead development. The scheme incorporates enhanced safety of access for both pedestrians and cycles.

Kent Highways has confirmed that they will require the existing secondary access onto Star Hill Road to be retained in order to provide best practice for masterplanning and suitable arrangements in the event of the main access becoming blocked by either an accident or due to road works.

The masterplan has been designed to encourage the new community to use the main Polhill access through the use of appropriate traffic calming measures combined with a more circuitous route to the secondary access.

In order to enhance safety, a new 40 mph speed limit together with a new entry treatment is proposed for Star Hill Road—this has been agreed in principle with Kent Highways. Visibility splays will also be improved at the Star Hill site access, again to enhance safety.

#### TRAVEL PLAN

A framework travel plan will be submitted as part of the planning application. This will include a package of measures aimed at encouraging the use of non-car modes of transport. It will also include details for monitoring trip generation for the new Fort Halstead village and identify a remedial strategy should mode share targets not be achieved.

![](_page_28_Figure_8.jpeg)

![](_page_29_Figure_0.jpeg)

431 bus route and potential community bus stop locations

#### 431 BUS SERVICE

Positive discussions have been held with Go Coach, the operators of the 431 bus service (Orpington High Street to Sevenoaks) with a view to rerouting the service so that it serves the Fort Halstead site. This would provide access to secondary schools in Sevenoaks (Knowle Academy and Trinity Schools) as well as to town centre facilities in both Sevenoaks and Orpington and to the Riverhead Tesco superstore.

#### COMMUNITY BUS

As previously, the strategy includes the provision of a new high quality, community bus service to operate from the site. This would provide a bespoke service tailored to meet the needs of the new residential and business community.

• •

![](_page_29_Picture_8.jpeg)

Community bus at Caterham Barracks, Surrey

![](_page_29_Picture_10.jpeg)

## **8.2 PUBLIC TRANSPORT**

As such, it is proposed that this service would:

Provide a link to one or more rail stations to meet the requirements of commuters at the beginning and end of the day. This would most likely provide a link to Orpington Station as well as potentially Knockholt;

Provide a more flexible service during the of peak period, for example to provide access to Sevenoaks or Orpington.

# **8.3 ACCESS & MOVEMENT STRATEGY**

A network of different types of proposed routes contributes to the permeability of the development. It is designed to encourage walking through the development by creating routes that are attractive, direct and overlooked. Less rigid, more organic character of the street network responds to the existing landscape and surrounding woodlands and highlights countryside character of the development.

The proposed hierarchy of routes will deliver a comprehensive network of high quality pedestrian and cycle routes across the site providing convenient, accessible, safe, comfortable and attractive facilities for all users.

#### Key

- Application boundary
- ---- Applicant's Land ownership Boundary
- Development Parcels
- Existing building for potential retention
- Existing public rights of way (PROW)
- Existing bridleway
- Existing road
- Main access all modes
- Secondary access all modes
- $\rightarrow$  QinetiQ Ltd. access point
- Junction improvement
- Crow Road/Primary Road
- Corridor for primary road\*
- Secondary road
- Indicative strategic shared footway cycleway
- ---- Indicative secondary shared footway cycleway
- Connection to existing footway network

![](_page_30_Figure_21.jpeg)

![](_page_30_Picture_24.jpeg)

## **8.4 INDICATIVE STREET HIERARCHY**

![](_page_31_Figure_1.jpeg)

FORT HALSTEAD - DESIGN & ACCESS STATEMENT

The street network serving the new homes will be based on interconnected streets, shared surfaces and courtyards. The distinctive street hierarchy is designed to provide legibility and easy navigation through the site for residents and visitors. It includes the main road, secondary, tertiary and edge streets each with different layouts and dimensions. Easy access for service and emergency vehicles is ensured by providing several accesses to each development parcel.

## **8.5 WALKING & CYCLING ACCESS**

The masterplan prioritises the movement of pedestrians and cycles through the site. This is achieved by the following interventions:

- Reduce traffic speeds design of streets in accordance with requirements for a 20 mph zone;
- Provide a new off-road cycle route through the site between the Polhill access to the Site access and Knockholt Pound;
- A series of "green links" provide other safe shared use pedestrian/cycle links through the site.

#### Off-Site Enhancements

As with the approved scheme, the village, as well as the wider community, will benefit from the following enhancements:

- New on-road cycle lanes between Polhill and Shanklands Roundabout as well as cycle facilities at the upgraded site access junction. In particular, these enhancements will provide safer access to Knockholt Station;
- Proposed 40 mph speed limit on Star Hill;
- Lighting of the M25 underpass on the bridleway linking Polhill and Filston Way.

![](_page_32_Figure_10.jpeg)

Indicative recreation route

![](_page_32_Picture_14.jpeg)

5.6km of cycling route

![](_page_32_Picture_16.jpeg)

## **8.5 WALKING & CYCLING ACCESS**

![](_page_33_Figure_1.jpeg)

7km of walking routes within the neighbourhood 5km of primary route +2.7km of extended route 3.6km route connecting all recreational activities in the neighbourhood together

#### FORT HALSTEAD - DESIGN & ACCESS STATEMENT

## **8.6 GENERAL DESIGN GUIDANCE**

#### A LEGIBLE AND PERMEABLE\* STREET NETWORK

Fort Halstead has been designed to be a walkable neighbourhood-a place where a range of useful facilities are within a short walking distance of all homes. This encourages people to walk and cycle rather than use the private car for short trips, but in order for this to happen, it is important that the street network is legible and permeable.

The illustrative street hierarchy plan shows a connected network of streets within the site. These form a clear hierarchy, each serving a particular function, from Crow Drive, the primary route running through the site, to the tertiary and edge streets, which are principally designed to accommodate the residents of the adjacent homes. The aim of this hierarchy is both to define a clear pattern of movement within the site and create a variety of attractive, characterful streets.

The location and alignment of Crow Drive and the secondary route is fixed and predominately follows the existing and historic alignment, with the exception of a few locations where deviation has been introduced to incorporate traffic calming measure and encourage slower vehicular movements. The location and alignment of all other street types are shown illustratively. While there is scope for some deviation from the illustrative layout, detailed proposals should follow the principles set out in this chapter, particularly in respect of the hierarchy between different street typologies.

The following detailed principles should be adhered to.

- Streets should interconnect—many cul-de-sac, gated and one-way streets will not be acceptable. The only exception may be at edge streets serving a small number of homes, but only if it can be designed to adequately accommodate the servicing of dwellings and does not sever pedestrian and cycle movements through the wider area;
- Each street should be designed to encourage the particular activities intended to take place within it.

#### STREET ALIGNMENT

The detailed alignment of streets should be determined by the arrangement of buildings along them and the desire to create varied, interesting places.

- All streets should be designed to naturally slow traffic by visual cues such as built frontage, on street parking, horizontal deflections, landscape and surface materials
- Long straight sections of street should generally be avoided. Where this is not practical, additional measures such as those set out above will be required to limit speeds

\*In urban design terminology, a 'permeable' street network is one which has a variety of pleasant, convenient and safe routes through it. It encourages walking and cycling and makes places easier to navigate through. Conversely, urban forms which lack permeability, e.g. those severed by arterial roads, or with many long culs-de-sac, are considered to discourage movement on foot and necessitate longer journeys by car.

Buildings and gardens are placed to define the preferred urban form.

![](_page_34_Picture_16.jpeg)

![](_page_34_Figure_18.jpeg)

The space left between is available to form the carriageway and is tracked for movement and for the provision of places where people may park their vehicles.

#### JUNCTION DESIGN

Cross roads and T-junctions will be the most common forms of junctions within the street network. In order to allow pedestrians to follow straight desire lines when crossing streets, it is important that junction radii are kept as small as possible.

- Vehicle tracking should be undertaken to test designs and ٠ achieve tight radii at junctions.
- Radii should generally be less than 6m (to be determined by ٠ swept path analysis) with the less trafficked streets achieving a minimum of 4m. Exceptions to this may be made for junctions with the primary road where 6m radii may be required.
- It is acceptable for large vehicles to use the opposite carriageway when turning in areas where traffic is moving at 20mph.
- Widening the street near the junction can help achieve tighter radii.
- Where on-street parking is provided near junctions, wider car parking bays may be used to allow visibility splays to be maintained.
- Street trees can also be located within these visibility splays to ٠ allow continuity of street trees.

The adjacent diagrams illustrate this approach, which is also explained in Manual for Streets 1.

#### CONSTRUCTION DETAILS

- At the corners of all junctions or other vulnerable areas, footways or other hard-standings should be constructed to the same quality as the carriageway to avoid being damaged by vehicles overrunning the footways or parking.
- The placement of trees, tree pits and utilities should be carefully considered at design stage to ensure a holistic design of the sub base and surfaces to ensure longevity.

![](_page_35_Figure_13.jpeg)

![](_page_35_Figure_14.jpeg)

Larger radii force pedestrians to deviate.

![](_page_35_Figure_15.jpeg)

Tighter radii allows pedestrian desire line to be maintained and vehicles turn slowly (10-15 mph)

![](_page_35_Figure_17.jpeg)

![](_page_35_Figure_18.jpeg)

Side street widens at junction & narrows further back to allow smaller radii. Smaller radii allow pedestrians to cross more easily.

Best solution includes raised surface for easier pedestrian crossing.

![](_page_35_Figure_21.jpeg)

## **8.6 GENERAL DESIGN GUIDANCE**

![](_page_35_Figure_25.jpeg)

- Pedestrian does not have to look further behind to check for turning vehicles
- Pedestrian can easily establish priority because vehicles turn slowly.

![](_page_35_Picture_28.jpeg)

- Tighter kerb radii can be used with a wider carriageway. The refuse vehicle turning requirement is still contained within the space, yet vehicles do not dominate.
- By using the same concept of tracking, wider carriageways can be set out to generate tighter junctions. These have much better calming effect on traffic speed.

## **8.7 CROW DRIVE**

#### INTRODUCTION

Streets make up the majority of the public realm within Fort Halstead and the detailed design of these streets will play a key role in establishing the character of the place as a whole and the different character of the neighbourhoods within it.

The proposal combines best practice in design, embracing *Manual for Streets* and the adopted *Kent Design Guide*, to deliver a new exemplary residential environment for all to enjoy.

Crow Drive is the main route into Fort Halstead from both Polhill and Star Hill. Crow Drive will vary in character and respond to its surrounding built character. The following chapter sets out guiding design principles for future reserved matter applications to ensure the quality and delivery of these different characters.

Text and diagrams set within an orange box are used to indicate mandatory design principles that *must be followed* to ensure the development will be of a high quality.

Mandatory Design Principles

![](_page_36_Figure_7.jpeg)

![](_page_36_Picture_10.jpeg)

## $\bigcirc$

![](_page_36_Picture_12.jpeg)

#### **GENERAL PRINCIPLES**

Throughout Crow Drive vehicular speeds will be restricted to 20mph or less. The exception to this is the short stretch of the Crow Drive connecting to the Polhill where a 30 mph limit will be applied in order to allow drivers to adjust their speed from leaving the nearby highway network.

The width of the carriageway is 6.2m which will accommodate a bus route. On the northern side of the Crow Drive there will be on a minimum of 2m footway and on the southern side a 3m minimum shared cycle and footway.

Kerbs with a high upstand should be used on the boundary between verge and carriageway to prevent unwanted parking on the green verge. On street parking should be only provided within parallel parking bays and where possible inset between the trees.

#### LIGHTING ON CROW DRIVE

The lighting along Crow Drive and across the development should aim to reduce sky low, luminaire intensity and light intrusion and thus limit visual impact at night. These issues can be addressed by the careful selection of luminaries that would neither project light upwards nor throw too much light directly onto objects (thereby reflecting back upwards). Whilst reduced levels of illumination is encouraged, no compromise should be made in respect of safety in health, safety and welfare of operatives and visitors.

Key light design measures should include:

- Lighting should be to the minimum level necessary to provide the required level of illumination;
- LED lights are recommended that enable increased control, improve colour definition, and save on energy;
- Luminaires should be designed and oriented to restrict light directionality only to the areas necessary. This should include double asymmetrical luminaires and full horizontal cut-off designs to prevent light spill;
- Lighting should be zoned to provide higher lighting levels along main routes (albeit whilst aiming for minimum standards of illumination); lower lighting levels on minor roads; and no light at all on out outward facing private drives;
- If security lights are to be provided on houses these should be of a full horizontal cut-off design with appropriate accessories to prevent light spill. They should also be fitted with motion sensors with timers set to the minimum value;
- The design to be as uniform as possible.

For more detail on the lighting strategy please refer to the Lighting Assessment Report.

Speed limit

Min. carriageway width

Footway/cycleway

Cycleway forward visibility

Longitudinal gradient

Cross fall

Bus access

Street lighting

Distance between speed restraints features

Junction visibility x

Junction visibility y

Max longitudinal gradient

Cross section gradient

## 8.7 CROW DRIVF

## CROW DRIVE **GENERAL HIGHWAY FEATURES** 30 6.2 m 2m footway on one side; 3m 3m shared footway/cycleway on the other side or in the green space 20m <10% <10% Yes Yes outside of 20mph zone and within 20mph zone at locations to be determined 60m - 80m within 20mph Speed Limit Zone 2.4m >25m within 20mph zone, 43m outside 8% (gradients may only be increased if unavoidable due to local topography) 1.0% to 5.0%

# **8.8 TRAFFIC CALMING MEASURES**

Traffic calming measures aim to encourage safer, more responsible driving and reduce traffic speeds. Traffic calming measures to be designed into Fort Halstead include miniroundabouts, square-abouts, shared surfaces, table tops, road humps, speed cushions and eyots.

In the Kent Design Guide Chapter 'Making it happen-highways', the maximum length of straight road between speed control features within 20 mph zones is generally 60 to 80 metres.

#### TYPOLOGIES

#### Mini-roundabout

![](_page_38_Picture_5.jpeg)

#### Squareabout

![](_page_38_Picture_7.jpeg)

Shared surface

![](_page_38_Picture_9.jpeg)

#### Overrun strips

![](_page_38_Picture_11.jpeg)

#### DESCRIPTION

- The central dome may be up to 6 metres in diameter and raised to a maximum of 75mm in the centre. The dome height should be in proportion to the roundabout diameter, i.e. for a 2m central island the dome should be raised to a maximum of 50mm in the centre. This should be lowered if buses or frequent HGVs need to cross it.
- The edge should be flush within a tolerance of 6mm above the adjacent road surface and the dome can be finished in cobbled or similar material.
- Squareabouts will take the form of a village square type arrangement, including a raised square central dome similar to the mini-roundabouts above.

- Shared space is an urban design approach that minimises the segregation between modes of road user. This is done by removing features such as kerbs, road surface markings, traffic signs, and traffic lights.
- Use of contrasting materials allows legibility and understanding between pedestrians and vehicle drivers.
- Overrun strips allow larger vehicles to negotiate bends and narrowings without significant visual widening of the main carriageway surface.
- Overrun strips can be formed of a raised shoulder, the edge no greater than 25mm above the carriageway channel line, and can be formed of an edge kerb and cobbled or other similar material differentiating from the carriageway material type.

#### PRECEDENT

![](_page_38_Picture_27.jpeg)

![](_page_38_Picture_28.jpeg)

![](_page_38_Picture_30.jpeg)

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![](_page_38_Picture_33.jpeg)

![](_page_38_Picture_34.jpeg)

#### **TYPOLOGIES**

#### Table tops

![](_page_39_Figure_3.jpeg)

#### Road humps and cushions

![](_page_39_Picture_5.jpeg)

Eyots

![](_page_39_Picture_7.jpeg)

#### DESCRIPTION

- Ramps at the commencement of table junctions and speed tables shall be 1.125 metres long, laid at a gradient of 1 in 15 (6.7%). The maximum height of any vertical deflection in Kent is 75mm.
- For adoptable roads KCC require humps and tabletops to be formed of tegular type blocks, of a standard colour palate to be agreed with KCC. Ramps can be formed of a contrasting colour material, to the specification dictated by KCC.

![](_page_39_Picture_11.jpeg)

PRECEDENT

Hump spacing of 60–80 metres is required for 20 mph zones when used in a series

![](_page_39_Picture_13.jpeg)

![](_page_39_Picture_14.jpeg)

The edge of the overrun strip should be flush within a tolerance of 6mm above the adjacent road surface. Eyot geometry will be dictated by vehicle swept path analysis.

![](_page_39_Picture_16.jpeg)

## **8.8 TRAFFIC CALMING MEASURES**

## **8.9 CHARACTER AREAS**

There are 4 key character area along Crow Drive. These are illustrated here.

#### Star Hill Entrance

Star Hill Entrance Section

This area acts as the secondary entrance to the Fort Halstead village from Star Hill. It will be characterised by the revealing of open space and houses behind bands of mature woodland when travelling along Crow Drive. The revealing of buildings provides a gradual transformation from the rural character of Star Hill to the more formal character of the new village.

#### Village Centre

This section of Crow Drive will be framed by higher density residential, employment and mixed use buildings where there will be a higher volume of pedestrian and cycle movement. Wider pavements, shared surfaces and other similar features indicate pedestrian and cycle priority.

Village Centre Section

![](_page_40_Figure_8.jpeg)

itD

![](_page_41_Picture_1.jpeg)

## **8.9 CHARACTER AREAS**

![](_page_41_Picture_5.jpeg)