

Site Strategies

05



Sustainable Environments

The development will be inherently sustainable, prioritising resident and visitor well-being and facilitate sustainable living for all residents to align with the Knowsley Local Plan Core Strategy CS22.

The project takes a passive fabric-first approach with all homes designed with:

- high levels of insulation
- form-factor assessments
- high air-tightness
- carefully designed details to limit cold bridging

This approach will result in reduced heating costs and limit CO2 production whilst also future-proofing the development.

Natural daylighting is maximised to all dwellings complemented by considered window type selection and placement to address overheating concerns. The window design also creates a connection with high-quality external spaces contributing to the sense of well-being and reducing the requirement for artificial lighting.

Material selection will be appropriate to place and context, whilst also be robust, low maintenance and contribute to the fabric performance of the buildings. Other aspects of the proposal address the sustainable principles of energy use, quality of environment, transport and ecology including:

- low-energy light fittings
- low water usage sanitary ware, aerated taps with flow restrictors
- Home User Guides to ensure well-informed high-performing use
- external space for recycling and refuse storage
- soft planting and wild-flowers to encourage biodiversity
- Substantial trees planting throughout the scheme
- Sustainable Energy Provision to reduce energy cost and improve low carbon performance.

Sustainable considerations extend beyond the physical buildings with ecological improvements, sustainable drainage, health and well-being and future management plans in place to safeguard the wider sustainable environment.



- Air Source Heat Pump
- Photovoltaic Panel
- Purpose Built Bike Storage

Servicing and Waste Management Strategy

The proposed servicing strategy is illustrated in the plan opposite. In the diagram, the service vehicle routes, bin collection points and in the instance of apartment blocks, the bin stores are all set out.

Bins for individual residential dwellings are to be stored in private rear gardens and presented kerb side by the resident for collection.

Sufficient space is provided in each garden for the storage of 3no. 240 litre wheelie bins. Bin collection points are always within 25m of the refuse vehicle route.

Bins for the small apartment blocks will be in communal bin stores located within 30m of each individual apartment and within 25m of the refuse vehicle collection point.

To provide a enhanced sense of ownership, all the apartments are proposed as 'own front door apartments' and so further to this, each will have their own individual bin provision with each apartment being allocated space for 2 no. 240 litre wheelie bins

Routes between bin store, bin collection points and refuse vehicular routes are all free from steps.

- Path of Waste Management Vehicle
- Distance travelled by Waste Collection operators
- Distance travelled by Residents
- Distance of communal bins to travel from bin store
- Bin Store - Communal
- Grasscrete area for designated bin storage on collection day only
- Collection nodal point



waste collection principles

Parking Strategy

The site contains 150 car parking spaces:

- 111no. allocated housing parking spaces
- 2no. unallocated visitor spaces
- 37no. apartment/OFD parking spaces - including 7no. accessible bays for M4(3) units.

The following provision is applied:

- Apartments: 1 space per apartment
- Mews house: 1 space
- 2 and 3 bed dwellings: 2 spaces
- 4 bed dwellings: min. 3 spaces

Please note:

- All new individual dwellings are to provided EV charging points.

Spaces for dwellings are be in the form of driveways to the front or side of each property, this strategy alternates to avoid car dominance on the street scene.

Single Driveways are a minimum of 3.3m wide to the side of properties and a minimum of 3.3m wide when forming part of the access.

Double driveways are either a minimum of 3m x 11m or 6m wide x 5.5m. Where driveways are paired, they will be a minimum of 6m wide

Each apartment has a single allocated space either to the front of the apartment or in an overlooked court. Parking bays in courtyards and visitor parking areas are a minimum of 2.5m wide by 5m long.

Cycle Storage:

Each apartment is allocated a cycle space in a purpose built secure and covered cycle store in close proximity to each block. 2no. cycle storage spaces per house will be located within secure sheds located in rear gardens.



- Apartment Parking
- One Bay Parking
- Two Bay Parking
- Three Bay Parking
- Accessible Parking
- Visitor Parking

Sustainable Connections

The site layout is structured around maximising existing and aspirational connections within the Halsnead Garden Village masterplan. The adjacent diagram demonstrates how the proposal knits together sustainable connections from the north to the south of the masterplan including pedestrian connections to existing footpaths, to the anticipated Country Park and to Tritax Symmetry Park with pedestrian connections to Cronton Road and local bus services.

The site layout has been designed to suit all forms of journey - including cars, pedestrians, cyclists and even equestrians.

Secure bike storage is provided in rear gardens and communal bike stores provided to each apartment and own-front-door apartment block as highlighted in orange on the adjacent plan. All bike stores are of high-quality, secure and located to ensure natural surveillance by adjacent properties. The bike stores are also localised to each block of accommodation that they serve.



Bike Store Example Hit and Miss Metal Cladding



Bike Store Example Timber Cladding



Furniture & Boundaries Strategy

Boundary treatments have been strategically designed to provide defensible space to both houses and apartments whilst takes influence from the existing landscaping around the site.

To the central spine road, low brick walls provide a clear boundary to the main access softened by trees and planting.

Houses are linked by low brick walls with black timber fences to provide a high quality boundary that incorporates into the agricultural asthetic of the street scene.

The streets off the main spine road are provided with softer boundary treatments to allow the parking and houses to blend into the mature landscaping beyond.

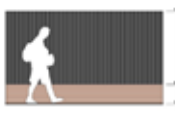
Landscape Design

Please refer to separate Landscape submission for further details of the proposed Landscape Design

Boundary Treatments Key:

Boundary 01: 

0.44m low brickwork wall with black timber fence. Height and specification varies to suit topography & acoustic requirements - refer to street scenes and Hepworth reports for further details.



Boundary 02: 

1.8m black timber fence with vertical boarding on timber posts to private residential amenity.



Boundary 03: 

0.44m low brickwork wall with low Laurel hedging behind.



Boundary 04: 

Low laurel hedging.



Boundary 05: 

Existing stone wall to be repaired and rebuilt. Height varies subject to site topography.





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DK-Architects
26 Old Haymarket
Liverpool
L1 6ER

T: +44 (0) 151 231 1209
F: +44 (0) 151 227 2053
E: mail@dk-architects.com



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