

Multi Generation House

CHOBHAM MANOR, QUEEN ELIZABETH OLYMPIC PARK, STRATFORD, LONDON, E20

NLA AWARDS

CATEGORY: HOMES - BUILT

PROJECT OVERVIEW

FINAL DRAFT V2 - 27-03-2018

PROJECT INFORMATION

Value: £900K - £1m

Size: 182 - 192 sqm gross

Project Status: Built and occupied during 2017 and early 2018

Tenure: Private Sale

Client: Chobham Manor LLP (Taylor Wimpey + L&Q

Architect: PRP Architecture

Delivery Architect: PRP Architecture

Sustainability Consultant: PRP Sustainability

Structural Engineer: Stephen Wilson Partnership

M&E Consultant: Kaizenge

Planning Consultant: Quod

Project Manager / Cost Consultant: Taylor Wimpey

Developer/Contractor: Chobham Manor LLP (Taylor Wimpey + L&Q)

Landowner: London Legacy Development Corporation (LLDC)



WHY IS THIS HOUSE TYPOLOGY BEING SUBMITTED IN THIS NLA CATEGORY?

Many families want to live together over several generations or next door to relatives. Focussed around a shared courtyard the home is inclusive, facilitating family longevity to establish its roots in the community.

This house, drawing on historical London references for inspiration, is embedded as an integral component of the Chobham Manor masterplan; the first neighbourhood for the LLDC at the Queen Elizabeth Olympic Park.

The challenge of designing an innovative home started as a idea seeking to address modern family needs through promotion of social interaction and wellbeing.

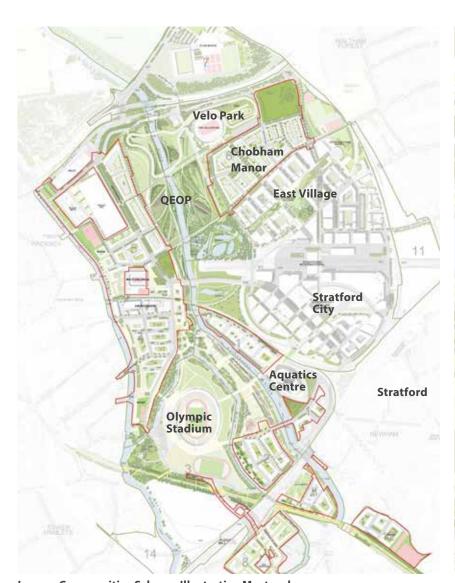
We are proud that this has been realised at Chobham Manor.

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Legacy Communities Scheme Illustrative Masterplan

PRP

Chobham Manor is located to the north section of the Queen Elizabeth Olympic Park. It is located between the Velo Park and the East Village. Chobham Academy school is to the east of the site.



Chobham Manor Illustrative Masterplan

The typology sits within the wider masterplan that delivers 75% family housing, not only as apartments, but via a variety of house typologies. The Multi Generation House is part of a suite house types from Mews to Maisonettes, Duplexes and Townhouses.



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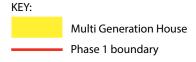
Historical references of materiality

The facade articulation takes cues from historical London precedents, such as the buildings at Bedford Square, which provided inspiration for the contemporary interpretation of the façades fronting The Greens at Chobham Manor. The material palette provides an excellent backdrop for the expression of the green open spaces proposed.



Phase 1 Layout

Typically the house is located at street corners and in close proximity to, and overlooking, green open space; where children can be overseen whilst playing with friends in the neighbourhood.



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Storey Heights

The LLDC were keen to see how traditional London housing typologies could be re-interpreted within Chobham and specifically asked for higher standards, in terms of, inclusive design and sustainability.

Lower densities and associated storey heights frame The Greens to Chobham Manor. Low rise apartment buildings and terraces of townhouses create the setting with for these green open spaces, with the Multi Generation home acting as the transition device at street corners.

Multi Generation House

1 storey

2 storeys

3 storeys

4 storeys 5 storeys

6 storeys

7 storeys

Typology Mix

PRP and Chobham Manor LLP welcomed the LLDC challenge to deliver housing diversity; the 'Multi-Gen' compliments a varied suite of repeatable typologies in order to meet the needs of different types of family. Repeatable typologies on Phase 1 are used across the remaining phases for consistency in construction methodology and delivery as well as funding certainty; in turn this repetition aides the cohesion of the wider masterplan.

Multi Generation House

Apartments

Maisonettes

Houses

Non residential uses

Non residential premises are proposed in three key locations on Chobham Manor to supplement the needs of residents.

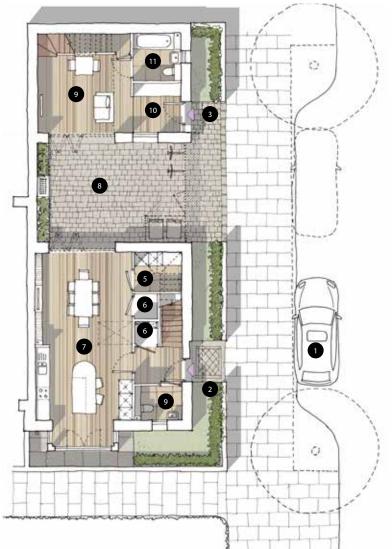
The layout of the masterplan reinforces key linkage to other facilities locally at the East Village and notably Timber Lodge and the Tumbling Play area that is directly adjacent to the site on the Queen Elizabeth Olympic Park.

Multi Generation House

Non-residential premises

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Ground Floor Plan

- 1. Allocated on-street parking space
- 2. Entrance to house
- 3. Entrance to annexe
- 4. WC

- 5. Utility room
- 6. Storage
- 7. Open-plan family kitchen
- 9. Double-height living space
- 10. Kitchenette
- 11. Bathroom
- Shared courtyard garden (inc. refuse and cycles)

First Floor / Mezzanine Plan

- 12. Living room overlooking The Green
- 13. Double Bedroom
- 14. Family Bathroom
- 15. Mezzanine Bedroom

Second Floor Plan

- Master bedroom overlooking the Green
- 17. En-suite
- 18. Twin Bedroom

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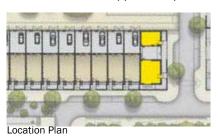
HOW THE HOME IS ORGANISED

The Multi Generation House, or 'Multi-Gen', is split into three separate elements; the main 3 bedroom house a shared courtyard and a 1 bedroom annexe.

The layout has been sensitively designed with families in mind. Shared gathering and spaces for interaction are located at the ground plane. Utility and storage spaces, which are an important component of any home, are neatly contained as not to impede the operation and flow of the main living spaces.

The living rooms provide spaces to relax, with the main family living room having an outlook to The Green. The master or parents bedroom, at second floor level, is right next door to a bedroom for young children; with a bedroom for an older sibling at the first floor.

The annexe, with its own living spaces, kitchenette and bathroom and can therefore accommodate the possibility of the occupants having mutual independence from the main house whilst being in close proximity when assistance or support is required.



Through

floor lift

Through

floor lift

IBed with 1m

|Dining table

reorientated

Main house: through floor lift to a bedroom for a disabled relative requiring a carer in close

proximity

clear to all sides

MULTI GENERATION HOUSE

Parents

bedroom

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Young children's

bedroom

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LAYOUT ADAPTION AND FLEXIBILITY OF THE HOME

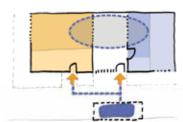
The layout has been developed with simple internal flexibility and adaptability at its core.

The independent nature of the annexe provides accommodation for a grand parent, a student returning to live with their family, a young couple saving to get on the housing ladder or a relative requiring a carer whilst wanting to retain a degree of independence and privacy.

There is also flexibility for the annexe to be used as an informal office space offering opportunities for working from home.

The main house can be easily adapted to enhance circulation for a relative who is a wheelchair user whilst maintaining visual connectivity at ground level between the main house and the annexe.





Original concept diagram



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Cross Section Key:

- 1. The Green
- 2. Allocated on-street parking space
- 3. Open-plan family kitchen
- 4. Shared courtyard garden
- 5. Double-height living space
- 6. Living room overlooking The Green
- 7. Double Bedroom
- 8. Mezzanine Bedroom
- 9. Master bedroom overlooking the Green
- 10. Twin Bedroom



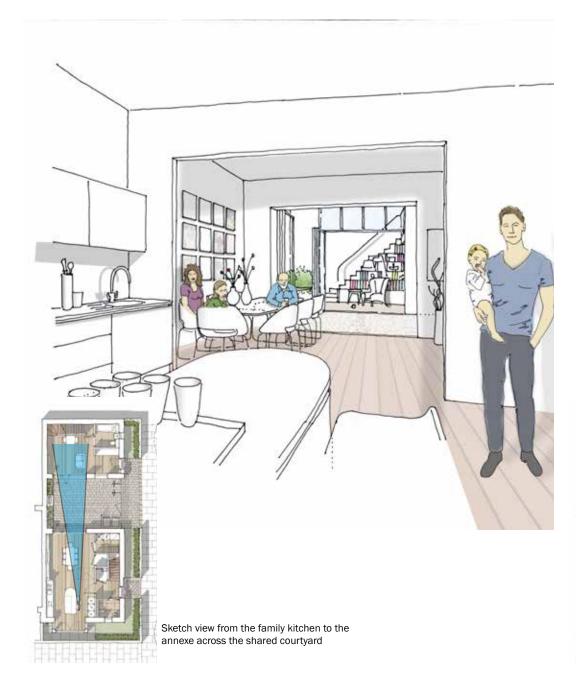


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THE ROLE OF THE TYPOLOGY IN THE MASTERPLAN

The Multi Generation Home performs an important role in the masterplan as the arrangement results in a typology which is very successful at turning street corners. Corner configuration in terraced housing is a common problem, yet the multi-generational home turns this design challenge into a success.

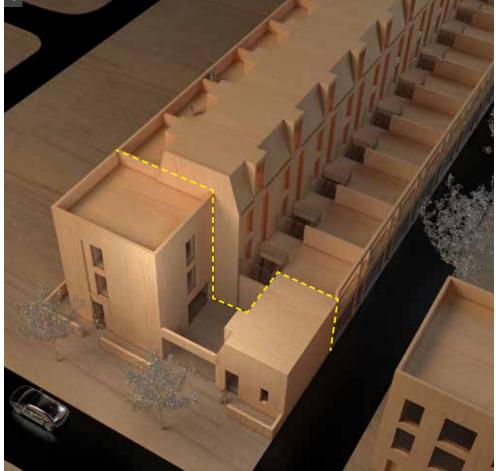
The location of the front entrance doors draws on cue's from historical Georgian London precedents to activate and provide interest to the street scene.





arrangement of defensible space and rear gardens at street corners

Smoother transition at street corners and activation of the street on all sides of the plot facilitated by the Multi Generation House



- 1: Street elevation fronting onto 'The Green'.
 The Multi Generation House is located at the end of the terrace of houses to the far right and far right of each urban block.
 - 2: Urban block diagrams explaining the masterplan benefits of the Multi Generation House
 - 3: Historical precedent image at the corner of Guildford Street / Doughty Street, London illustrating the activation of the street. Note that the front door is located off the secondary route.
 - 4: Early 3D massing study demonstrating the corner turning qualities of the massing. In this instance the form manages the transition from 'The Green', around the corner into the street and the gateway to the mews.



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Glimpsed views of the Velodrome, along routes which take a cue from the traditional London street typology, are announced and framed by a pair of Multi Generation Homes.

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View of the emerging street scene at Chobham Manor. The Multi Generation Homes complete and bookend the run of townhouses to The Green. Full height openable windows at ground level and oriel windows above provide panoramic views from the family kitchen, living space and master bedroom across The Green which is the heart of the development.

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The form of the building manages the transition at the junction of street with The Green. Defensible space is clearly defined by simple brick walls, with a simple materials palette, front doors, fenestration with feature surrounds and oriel windows providing activation and interest to the street scene.

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Two separately distinguished front doors are provided to the home; one to the main house which is emphasised by bold architectural expression, whilst the annexe entrance is subsidiary and has less prominence. Access to the courtyard is also provided directly off the street for ease when removing refuse bins and bicycles.

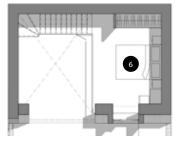
THE ANNEXE



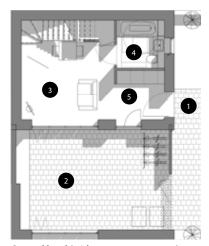
Expression of annexe

The typical annexe comprises a two storey element whose connection the main house is linked by it's primary materiality at ground floor level. Its separateness is subtle and announced to the street through the materiality and form used to the upper level.

Access to the annexe is entrance is level and unhindered. Delineation of the plot is signified to passers by a surface continuation of the brick wall materiality which forms the defensible space.

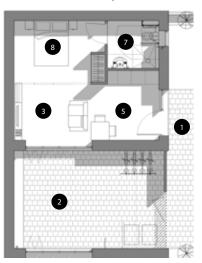


Mezzanine level (with two storey annexe)



Ground level (with two storey annexe)

- Entrance to annexe
- Shared courtyard
- Living space 3.
- Bathroom
- Kitchenette
- Mezzanine bedroom
- Accessible bathroom
- Bedroom (with separation)



Ground level (single storey annexe)

Variants of the annexe at Chobham Manor

The typical base home as a two storey annexe with a bedroom located at mezzanine level.

At Chobham Manor, the layout of the masterplan allowed for a variant of the annexe to be developed which is wheelchair accessibility to an extra care level of provision.

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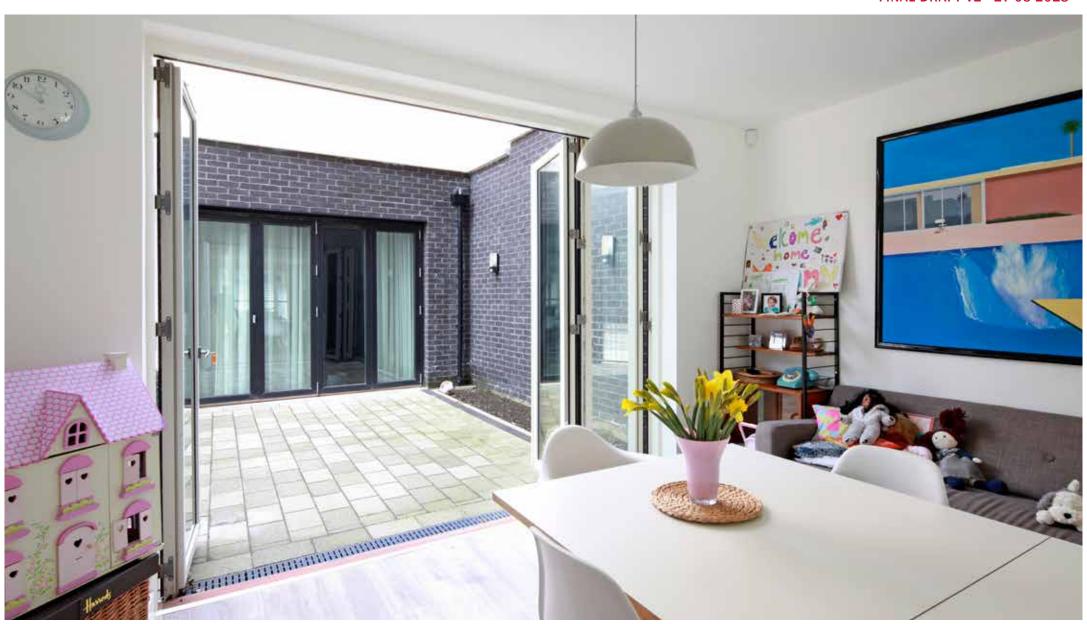
The shared courtyard with transparency yet privacy to the street. The courtyard creates an outdoor room extension to the open plan kitchen dining space providing a blank canvass where plants can be grown and children can play.

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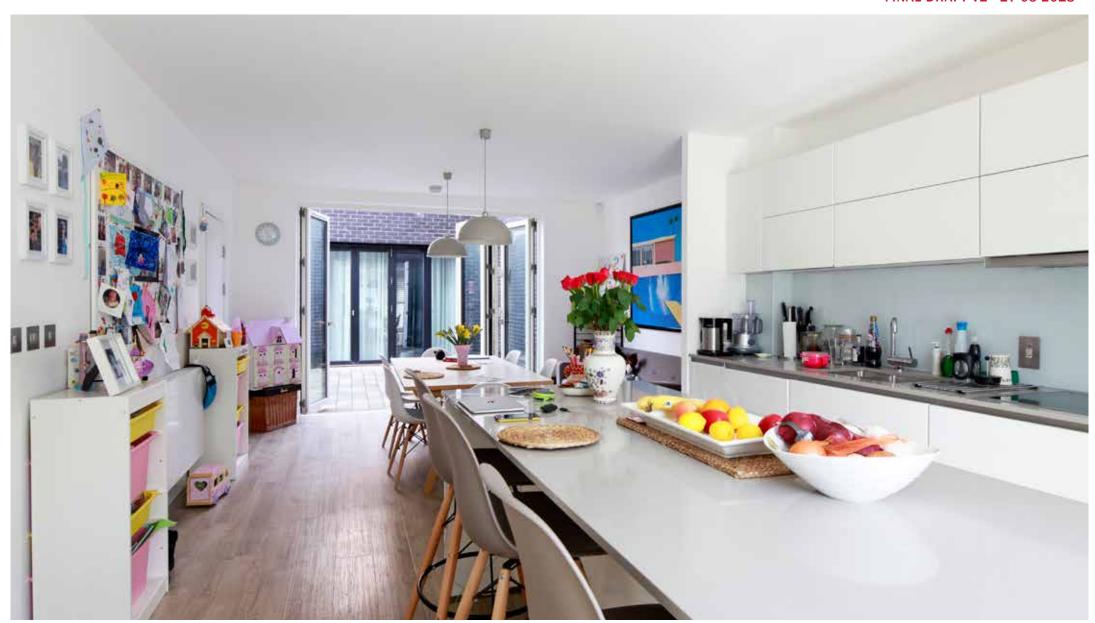
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Connectivity of the main house, the shared courtyard and the annexe. The annexe has the benefit of being independently separated from the main house should the occupant so wish.

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The generous open plan living/dining space links to the main courtyard and is the hub of family activity and interaction of the home.

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Internal view from the family living space at first floor level. The oriel window provides a view of the green space outside. This room is a place to relax and enjoy down time with the family and visitors.

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ARTICLES IN PUBLICATIONS AND THOUGHT LEADERSHIP WRITING

Architectural Design, Article: Regeneration For All Generations by Kathryn Firth (LLDC) and Manisha Patel (PRP), March / April 2014,





Property Week, contributions to article by Manisha Patel (PRP), 9 September 2016



One roof, many generations - could this be a model for the future?









Architects) Standfirst to com-Kathryn Firth (LLDC) and Manish: Patel (PRP Architects) Standfirst to come: Kathryn Firth (LLDC) and (LLDC) and Manisha Patel (PRP Architects) Standfirst to come:

Kathryn Firth (LLDC) and Manish: Patel (PRP Architects) Standfirst to come: Kathryn Firth (LLDC) and

occupation may be the answer to many of these 'new' housing dilemmas.



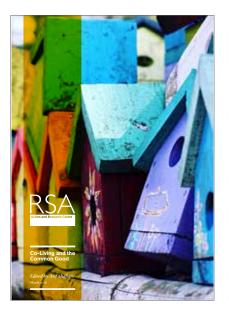


Flexible homes suitable for living, working and multi-generational



ARTICLES IN PUBLICATIONS AND THOUGHT LEADERSHIP WRITING (CONTINUED)

RSA Essays, Co-Living and the Common Good, Essay by Manisha Patel (PRP), March 2018



The fundamentals of a home and how we can design for wellbeing

Household and family structures are changing dramatically





ity by Brenda and Robert Vale when they completed th som home in Southwell. Their design promoted health

which we wish to live our lives. A major strength of co-living is that it seeks to strike a balance between the two, instead of privileging one over

"The multigeneration house and similar schemes are part of a wider effort to embed social interaction and wellbeing into our development of city communities"