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Join us for a Midway Design Review

 **Burnholme |**
Shaping the Planning Application

Please visit the link above online to see how our plans have developed and share your views and ideas with the team.

The plans for Burnholme will be online until April 6th 2020.



1 Introduction

This information presented outlines the current proposal for new homes located in Burnholme.

The purpose of this review is to:

1. Explain our design process to date
2. Feedback on our resident workshop day
3. Share our current design with you to get your feedback.

Project Team:

Client		Passive House	
Architect	MIKHAIL RICHES	Planning	
Landscape		Engagement	
Structure/ Civils		Cost Consultants	
M & E			



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— SITE BOUNDARY

2 Our journey so far

Autumn 2019 - Co-develop and refine the design brief

- **September 2019 | Stakeholder meetings** with 10+ local organisations, groups and business
- **October 2019 | Meet the design team evening at The Centre @ Burnholme.**

The project team invited local residents and stakeholders to discuss the site, review the analysis work and inform us about the area.



Winter 2019 / 2020 - Inspire, understand and resolve design challenges

- **November | Design workshop | The Centre @ Burnholme.** Local residents and stakeholders were invited to an all day event to review our ideas and help improve our designs.
- **January | School Stakeholder meetings** with neighbouring Applefields and St Aelred's school to discuss how to connect into the neighbourhood.



3 Design Workshop Outputs | November 2019

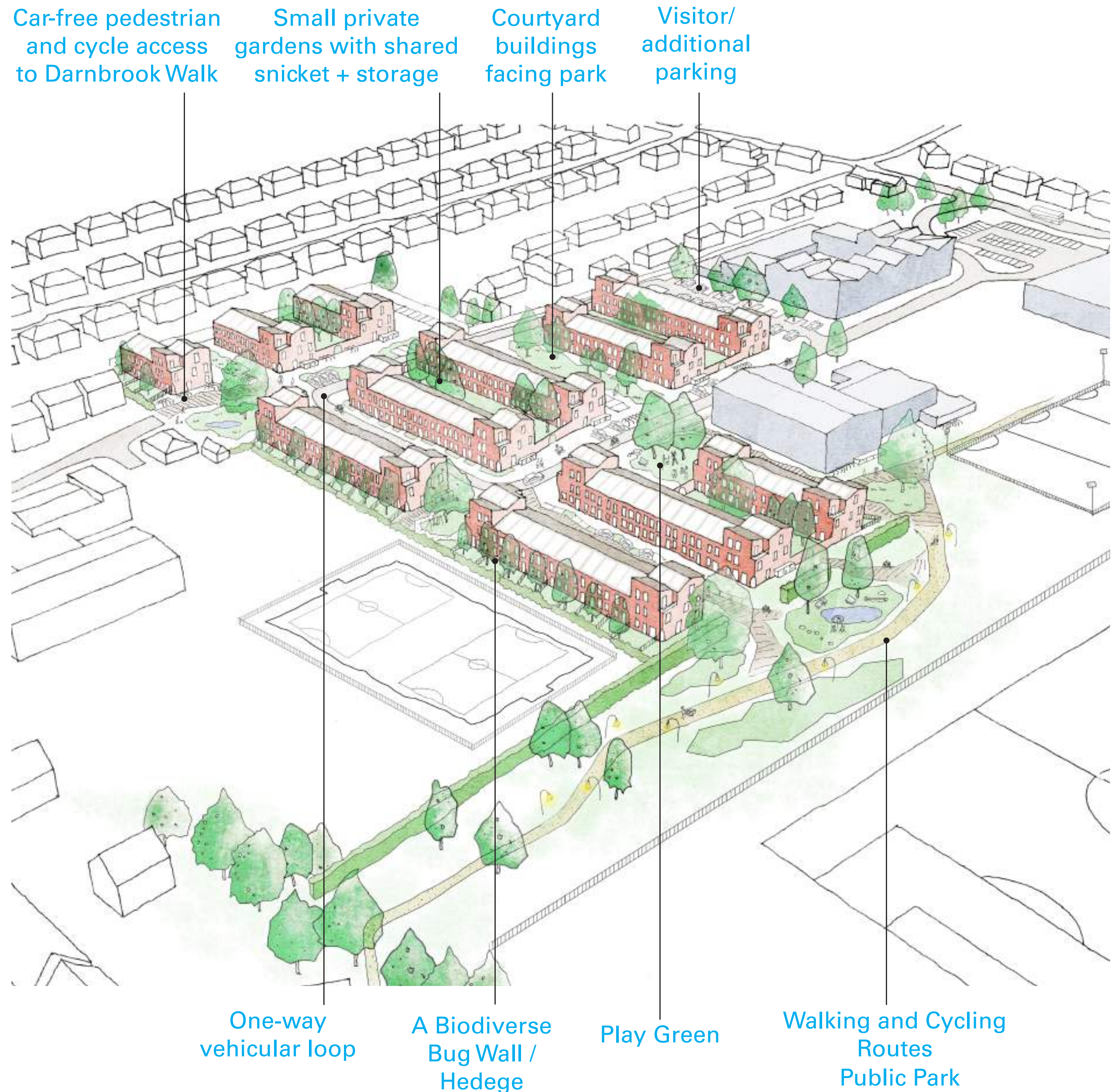


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Development Scenario 1 | Burnholme Green

- A mix of terraced homes (100% PassivHaus) with a centrally located green space, shared courtyards and a public park along the Burnholme Link.
- A pedestrian and cyclist environment
- About 65 car parking spaces plus private and shared bicycle storage.
- One vehicular access from Bad Bargain Lane - a one-way loop for cars, refuse and delivery
- Darnbrook Walk access by walking, cycling and emergency access only.
- Bug wall to the southern edge to create an attractive and productive boundary to St Aelred's RC Primary school grounds.



4 Design Workshop Outputs | November 2019



Development Scenario 2 | Burnholme Park

- A mix of terraced homes (100% PassivHaus) with large public park around the Sports Centre incl. the new Burnholme Link, a Park Pavilion, play and outdoor exercise spaces, outdoor cinema opportunity and solar panels on south facing Sports Centre roof.
- Homes to overlook the Park.
- A 'pedestrian and cycle first' environment with one fruit tree planted per home.
- About 70 car parking spaces plus private and shared bicycle storage.
- One vehicular access from Bad Bargain Lane, a one-way loop for cars, refuse and delivery.



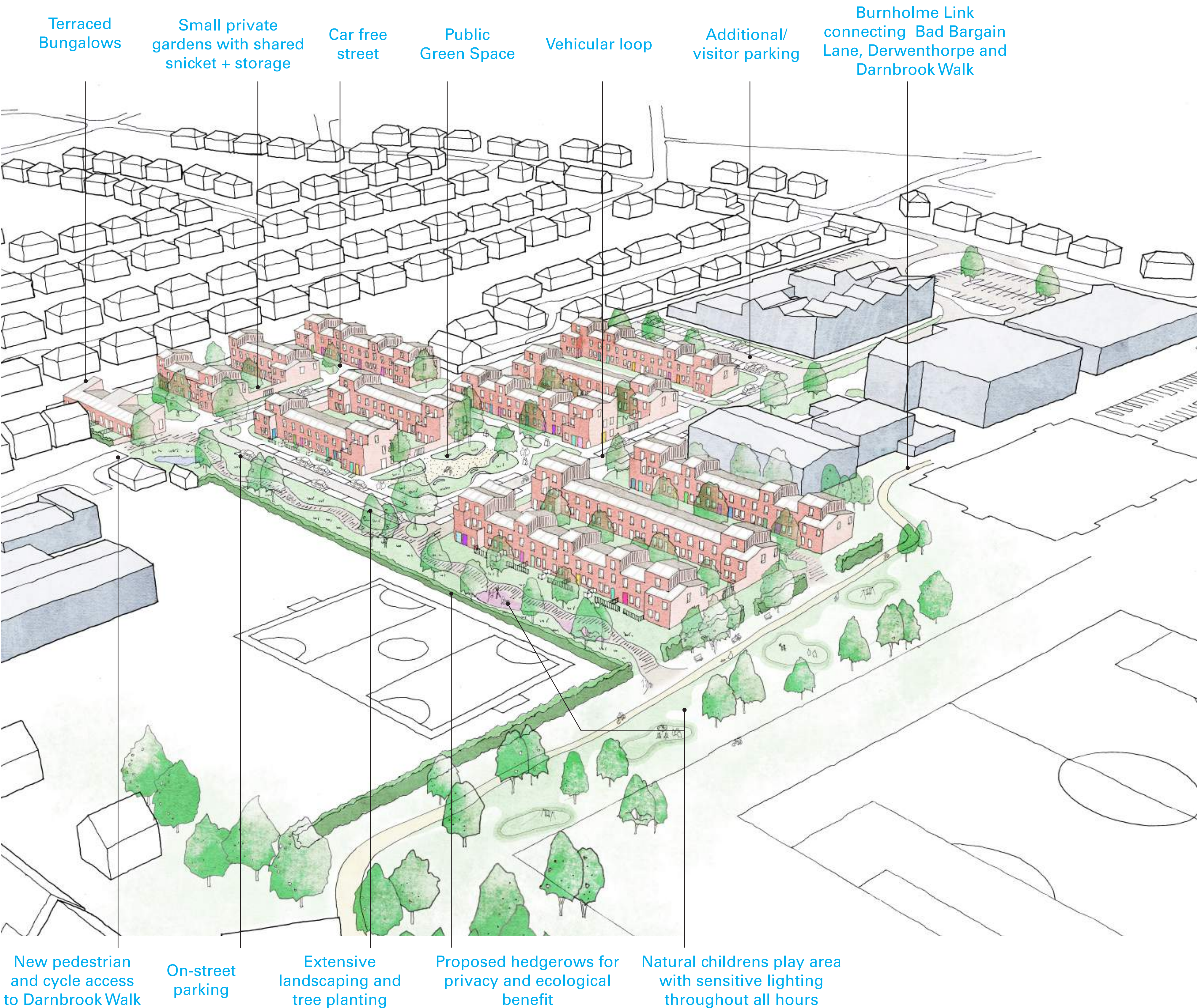
5 Current Concept Design

| March 2020



Key numbers

Total number of units	91	
Density	51 unit / ha	
Parking	99 car parking spaces achieving 1:1 across the site.	The proposed development consists of a mix of over 90 terraced homes (100% PassivHaus), including a provision for wheelchair adaptable homes, and a large Public Park located at the centre of the site that aims to connect the new scheme into the neighbourhood as a community focal point.
Biodiversity:	Existing hedgerows retained with new hedgerow and tree planting proposed	



Key developments

- Communal rear terrace open spaces.
- Open green space in centre of development with pedestrian routes through to adjacent schools and leisure facilities.
- 3 storey, 1bed flatted blocks, each dwelling with their own private on-street front door.
- Two storey, 2 bed and three storey 3 bed and 4 bed houses. Mix of M4 (3) properties including all ground floor 1 bed flats, 2 bed Bungalows and 4 bed houses. Every other property to M4 (2) standard.
- A pedestrian and cycle friendly environment with one fruit tree planted per home to create a bio-diverse seasonally engaging environment.
- The southern edge of the site along the boundary of St

Aelred's RC Primary school is to be a biodiverse landscape with the opportunity for an array of productive urban landscapes including: allotments, orchards, bug walls, SUDS, natural play and reflection spaces.

Schedule of Accommodation | March 2020

	1b2p	2b4p	3b5p	4b7p
Flats	18	-	-	-
Houses		44	15	14
TOTAL				91
%	20	48	16	15

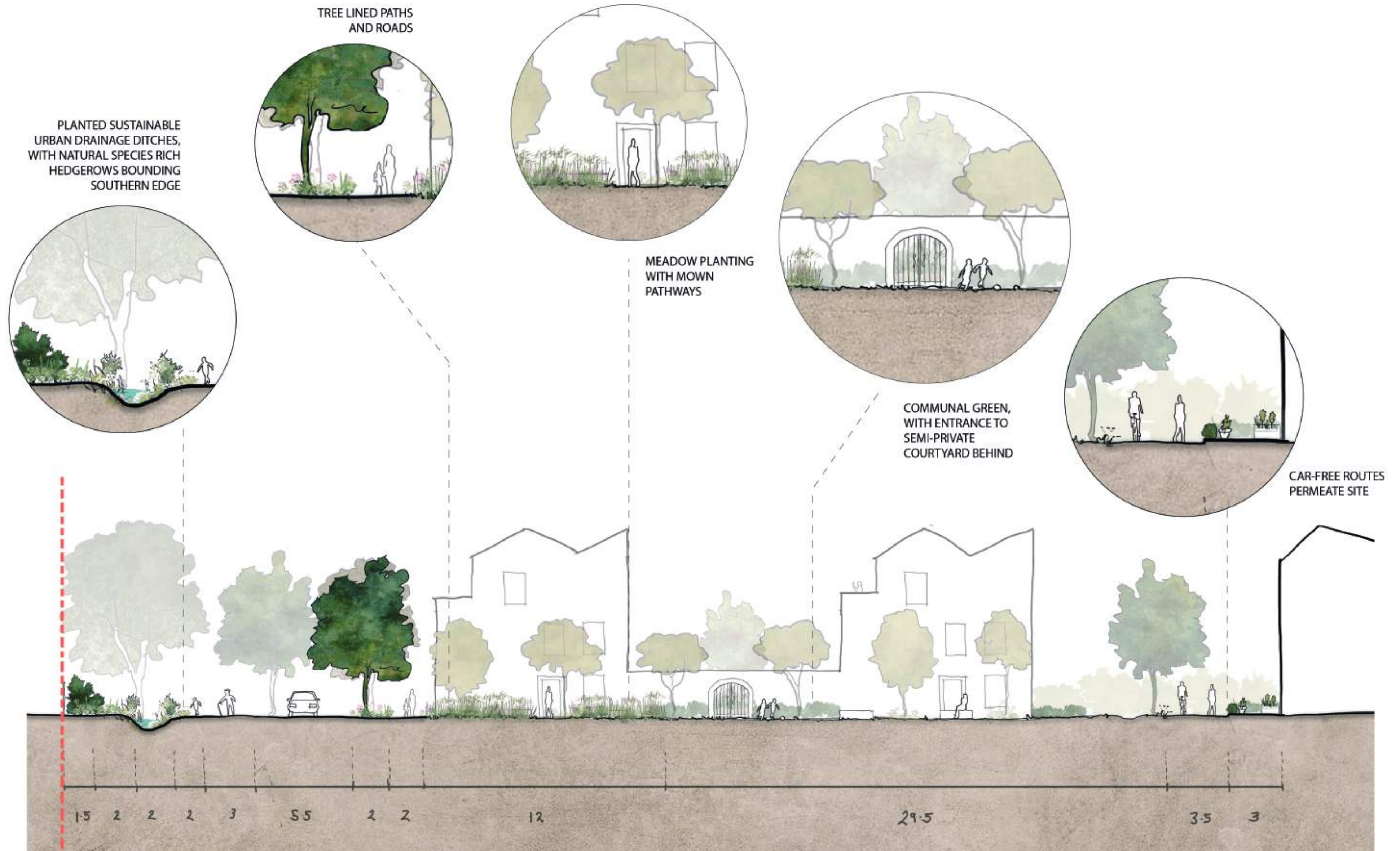
6 Burnholme Square



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7 Landscape Section



8 Landscape Design | March 2020



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1 Reflective garden



3 Children's play space



5 Front gardens on footpaths and shared courtyard



2 Front gardens



4 Natural play area

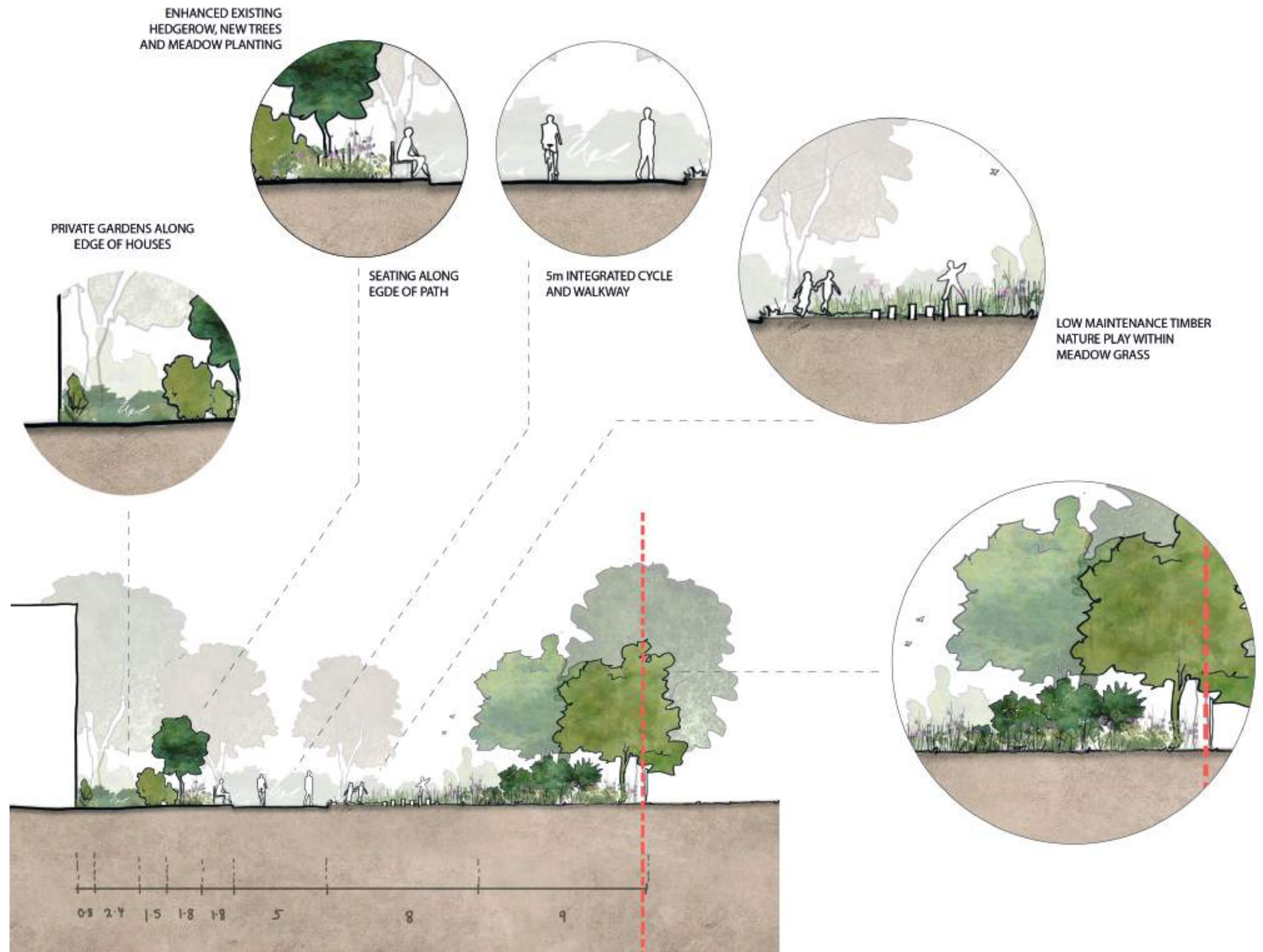


6 Communal growing beds

9 Child Friendly Streets



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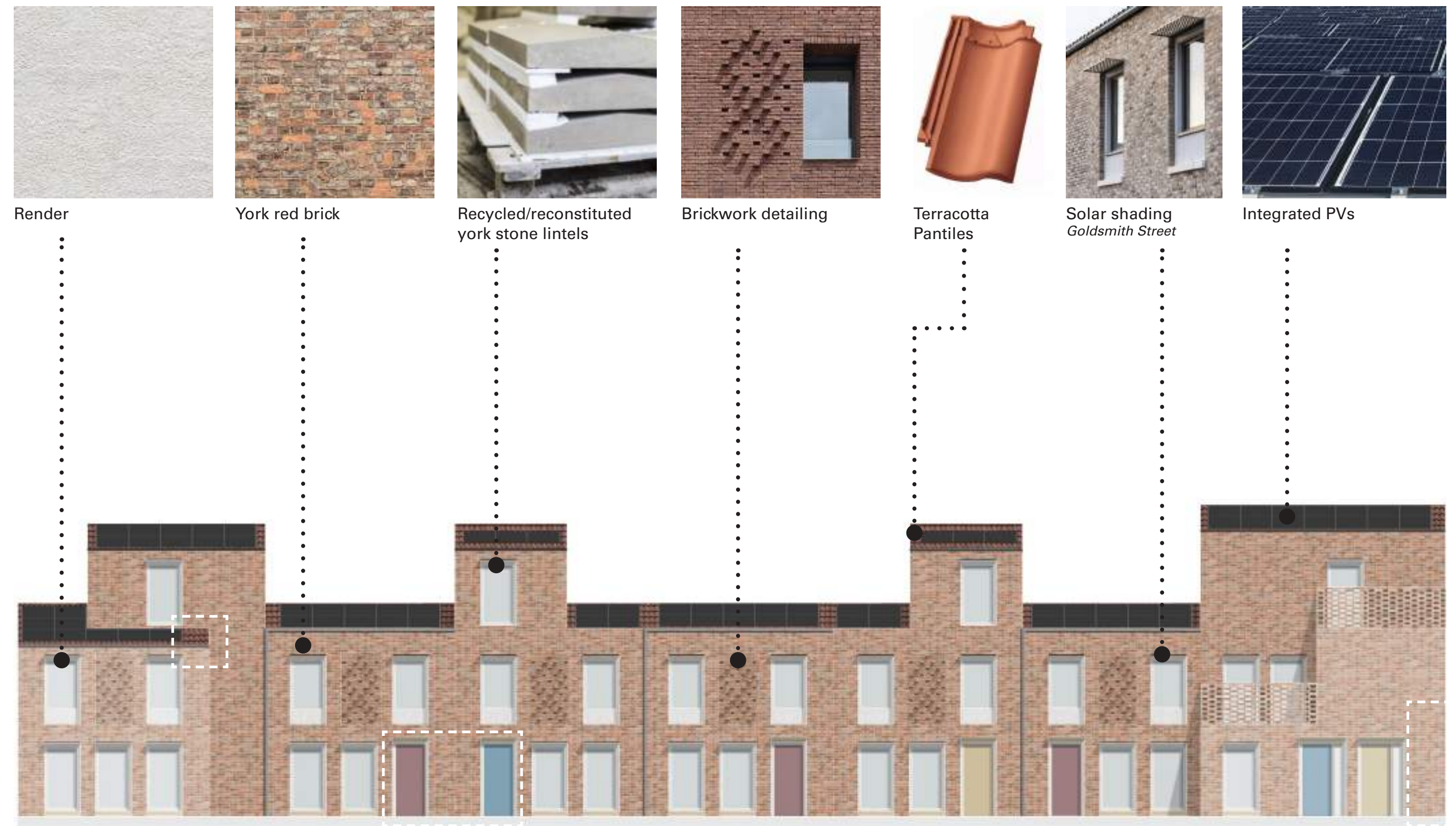
10 Building Materials



What might the new buildings look like?

We have taken inspiration from the surrounding area of Heworth, Tang Hall and the wider City when developing the options for our building elevation and materials.

We are also exploring the possibilities of low carbon alternative materials in an effort to reduce the embodied carbon of the scheme.



York Design Principles

Terracotta roofscape



Paired front doors



Chamfered corner details



Car free streets
New Earswick



Burnholme Local Materials

Red brick and white painted brick
Derwenthorpe



Sustainable Terraced Housing

Passivehaus Terraced Housing
Goldsmith Street, Norwich



Shared communal rear gardens
Goldsmith Street, Norwich



11 Passivhaus Principles

The proposed homes are designed to the energy efficient Passivhaus standard that creates low energy buildings that are warm in winter and cool in summer.

1. Airtightness

Less than 0.6 ac/h @ 50pa

Building Regulations > 5.0 ac/h @ 50pa

2. High Insulation Levels

Triple Glazing

Space heating less than 15 kWh/m² / yr

3. Use Solar Gains

Primary energy demand \leq 120 kWh/m² / yr

4. But Avoid Overheating

Space cooling less than 15 kWh/m² / yr

5. Ventilation MVHR

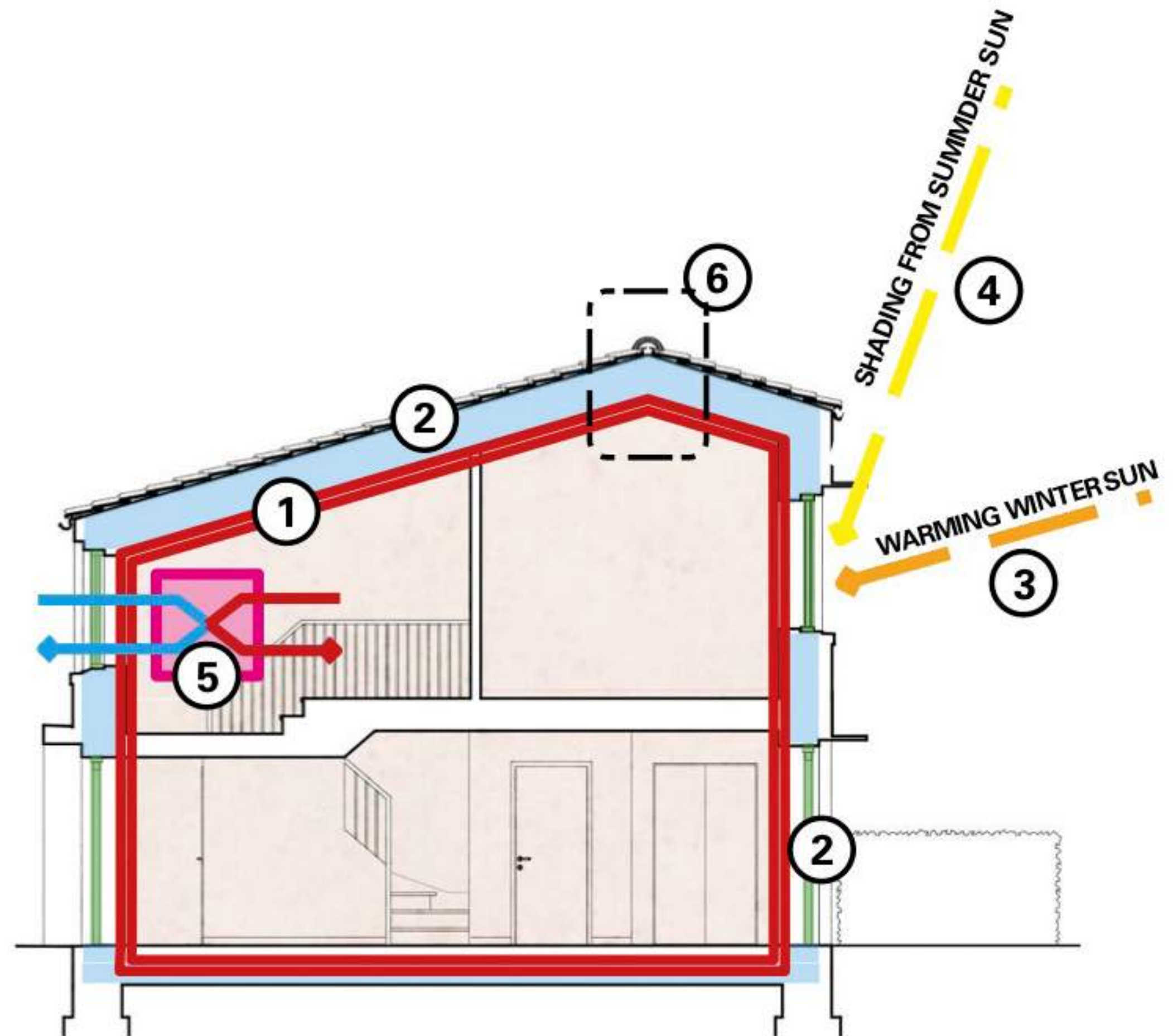
(Mechanical Ventilation & Heat Recovery)

6. 'Thermal Bridge Free' Construction

All Junctions thermally modelled

7. Energy Bills per household

Approx. £205 - £330 per year (75% - 85% reduction)



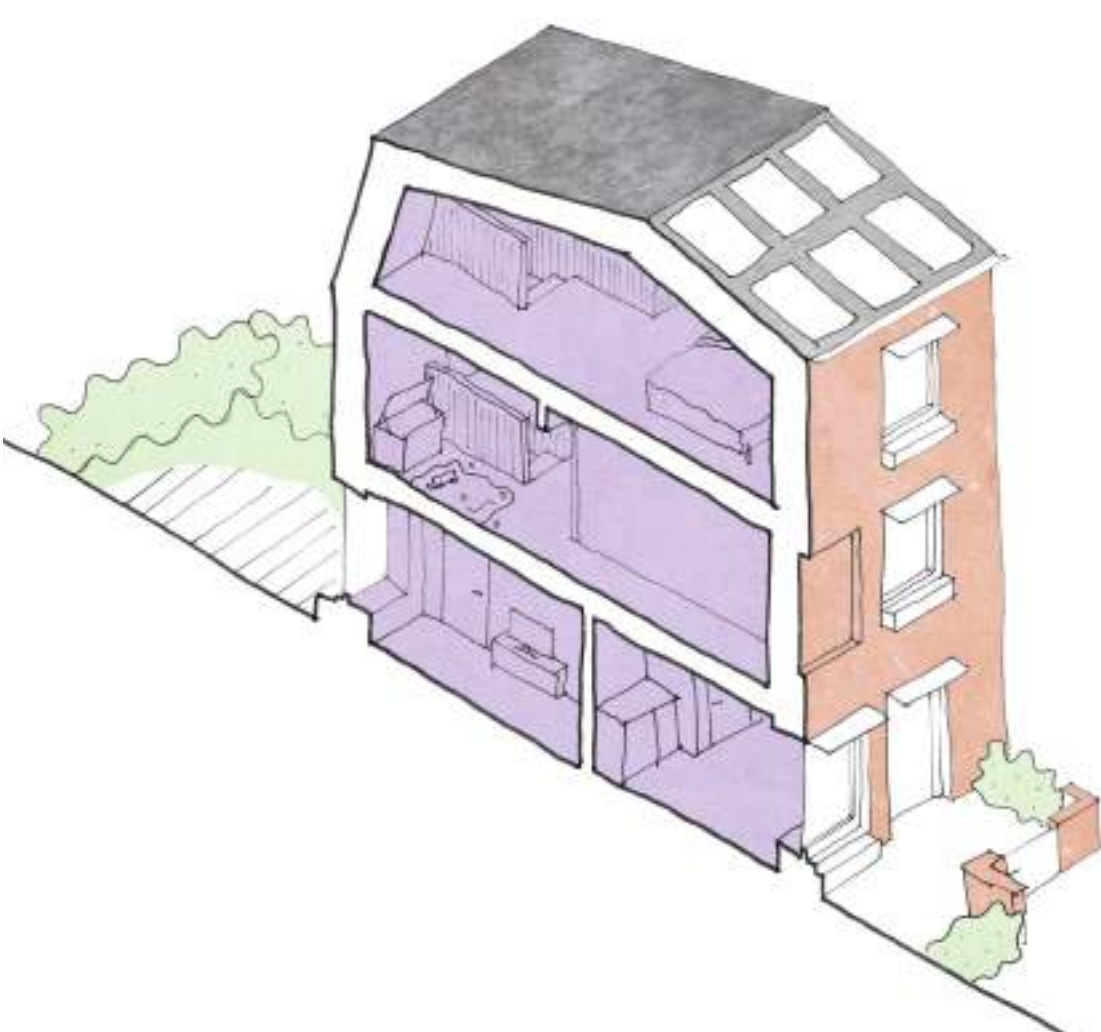
12 House Types | March 2020



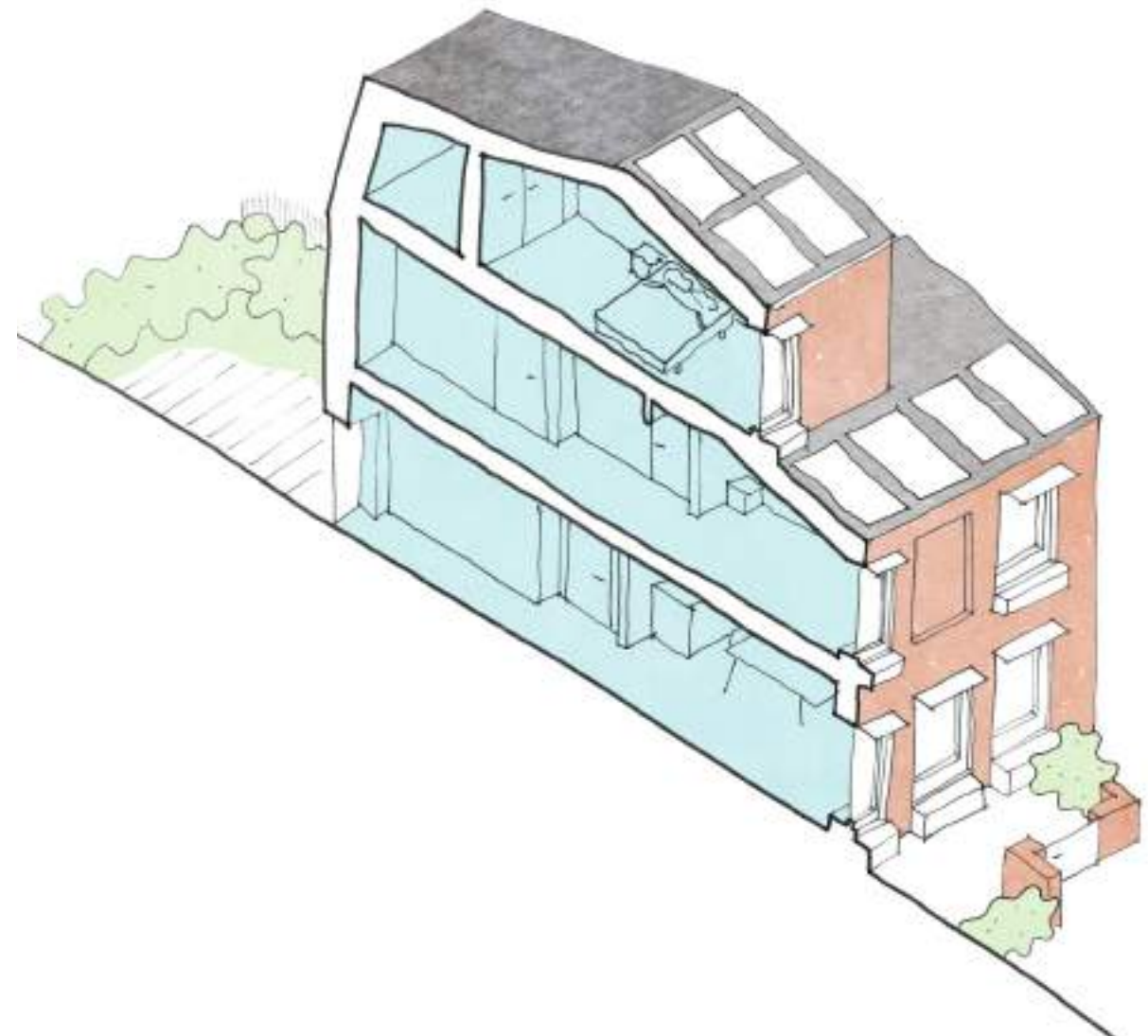
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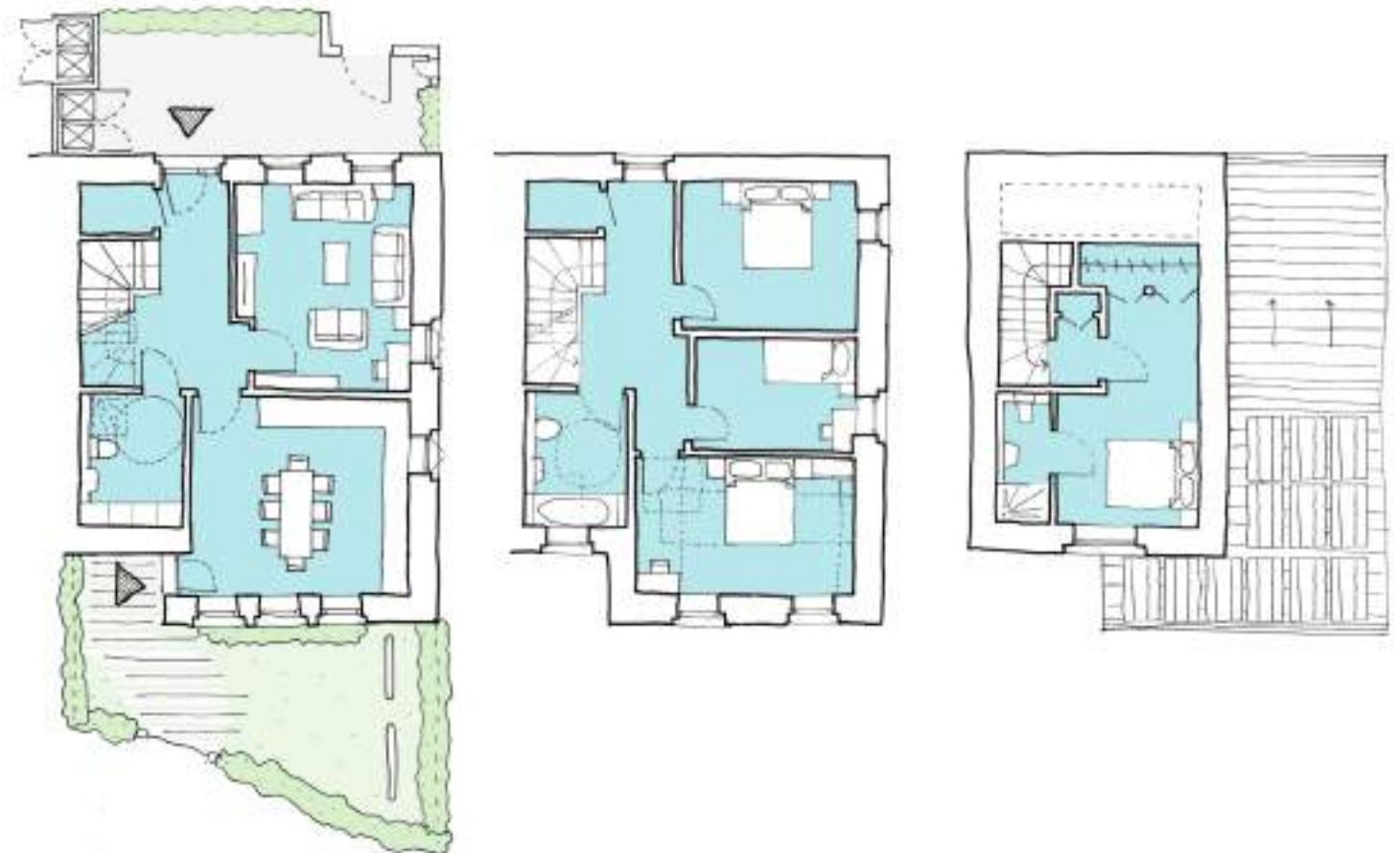
2 Bed, 4 Person House (GIA: 79sqm)



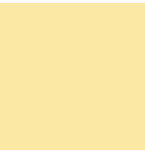
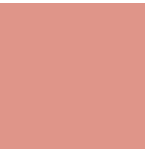


3 Bed, 6 Person House GIA: 104sqm)

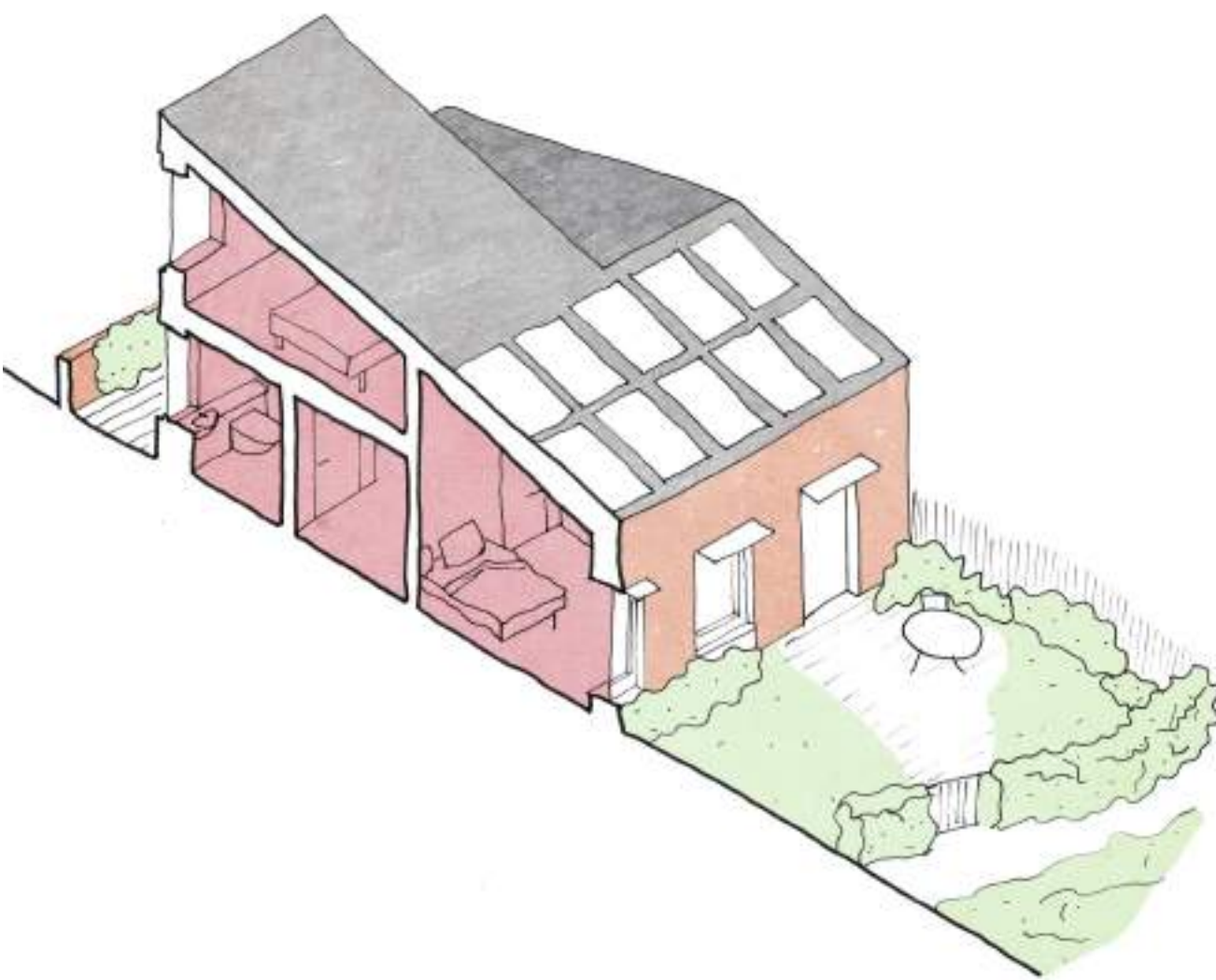


4 Bed, 7 Person House GIA: 129sqm)



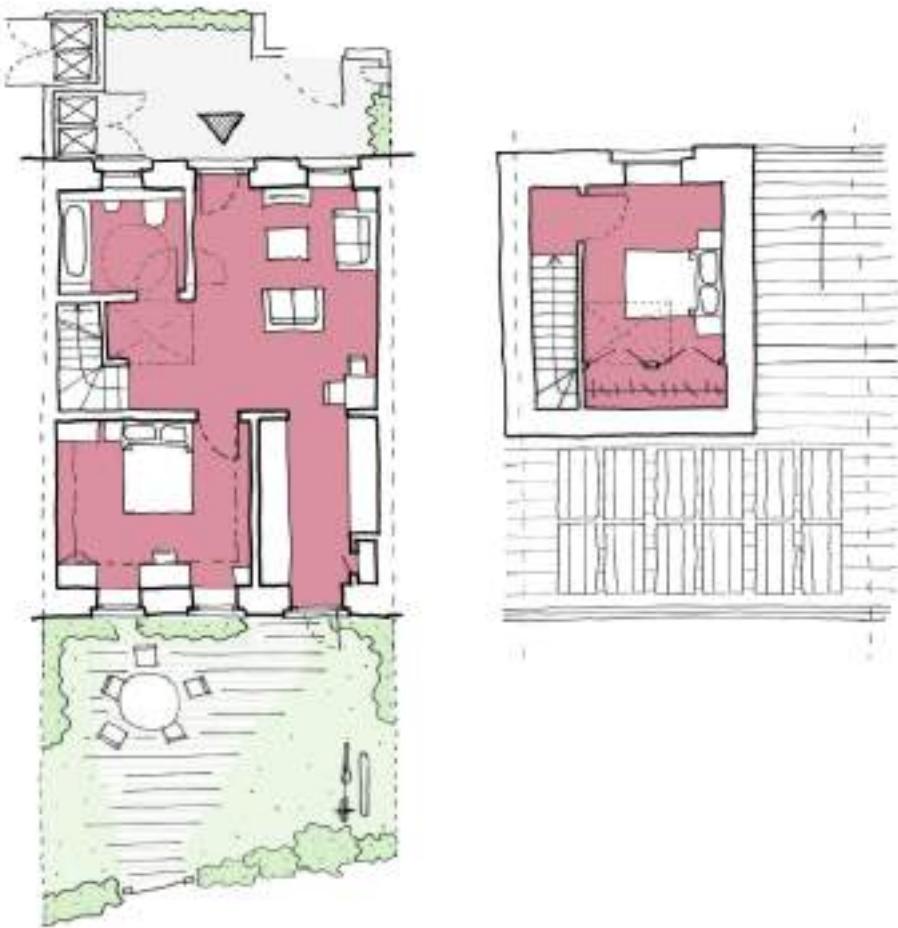
13 House Types | March 2020

-  1 Bed, 2 Person Flats
-  2 Bed, 4 Person Houses
-  3 Bed, 5 Person Houses
-  4 Bed, 7 Person Houses



1 Bed, 2 Person Flats (GIA: 59sqm)
One flat per floor each with own on-street private

2 Bed, 4 Person Bungalows (GIA: 79sqm)



14 Building Better Places Questions

Measuring progress towards building better places



Building Better Places Questions

- 01 Working with the site and context** | Does the scheme take advantage of existing topography, landscape features, wildlife habitats, and existing buildings and address privacy and overlooking concerns pro-actively?

- 02 Character** | Does the scheme create a place with locally inspired character? (scale, form, material, landscape, design detail)

- 03 Connections** | Does the scheme integrate into the surrounding streets, footpaths and cycleways and increase the ease of movement around the local area?

- 04 Meeting local need** | Does the development have a mix of housing types and tenures that suit local requirements? Do all homes meet national space standards as a minimum? Are the ground floor layouts flexible and connect well with the outdoors?

- 05 Integration** | Does the development deliver houses for people in different circumstances in an integrated way (e.g. tenure blind, pepper-potted/no clusters of poor doors or cores)?

- 06 Streets for people of all ages** | Are the streets designed with pedestrians, playing children and cyclists in mind and do they encourage low vehicle speeds? Is it easy to find your way around? Are storage areas for bins and recycling well-integrated with landscape without detracting from the quality of the street?

- 07 Cycling and car parking** | Does the scheme provide well-located, integrated and secure cycle parking storage for every resident? Does the scheme reflect local demand for car parking whilst promoting alternative transport choices? Are there parking spaces for shared cargo-bicycles and electric scooters provided? Has every home access to an electric charging point?

- 08 Neighbourly** | Does the development promote social interaction between residents of all ages?

- 09 Healthy outdoor activity** | Does the development offer opportunities for outdoor play and shared community activities?

- 10 Carbon Neutral Development** | Is the scheme designed to maximise opportunities for zero carbon development? Are 100% of the new buildings designed to PassivHaus Standard?

- 11 Water** | Does the development provide a Sustainable Drainage System? Is grey water used on site to improve biodiverse habitats? Have the homes with gardens been provided with means to collect rainwater? Are the buildings fitted with a grey as well as with a freshwater system?

- 12 Planting** | Does every resident have the opportunity to be involved in community food growing, does the development increase the biodiversity of the site, is this designed to be climate resilient? Are there at least as many fruit bearing trees planted as there are homes provided?



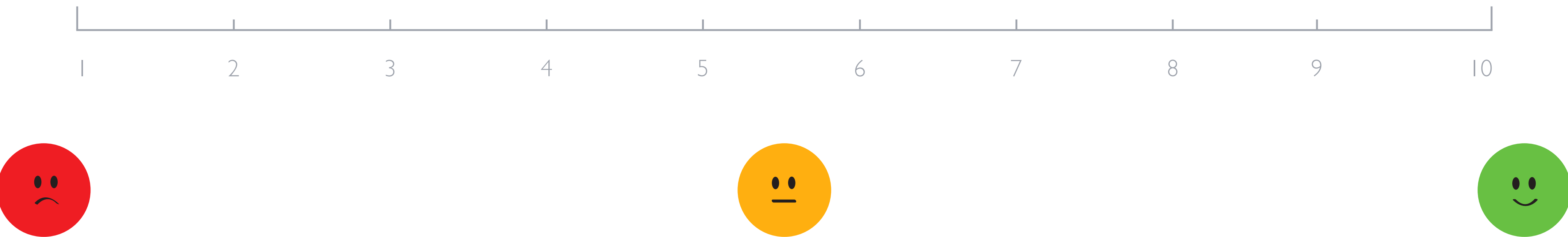
16 Building Better Places Questions

Measuring progress towards building better places



Building Better Places Questions

On a scale from 1 to 10 | Could you imagine living in this new part of the neighbourhood?



On a scale from 1 to 10 | How likely are you recommend this development to a friend?

