

227 - 239 Horn Lane

Design & Access Statement

NOVEMBER 2022



Client

Bellaview Properties Ltd. and Builder Depot Ltd (as joint applicants)

Site

227 - 239 Horn Lane, Acton, London, W3 9ED

Proposal

Demolition of the existing builders' merchants (Sui Generis) and construction of a part-15, 11, 7, and 6 storey building to provide replacement builders' merchants (Sui Generis) at ground floor level, new residential dwellings and associated amenity space at first floor level and above; hard and soft landscaping works; provision of car and cycle parking; works to provide means of access for both pedestrians and vehicles from Horn Lane and all other works incidental to the development.

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1. **The Brief**

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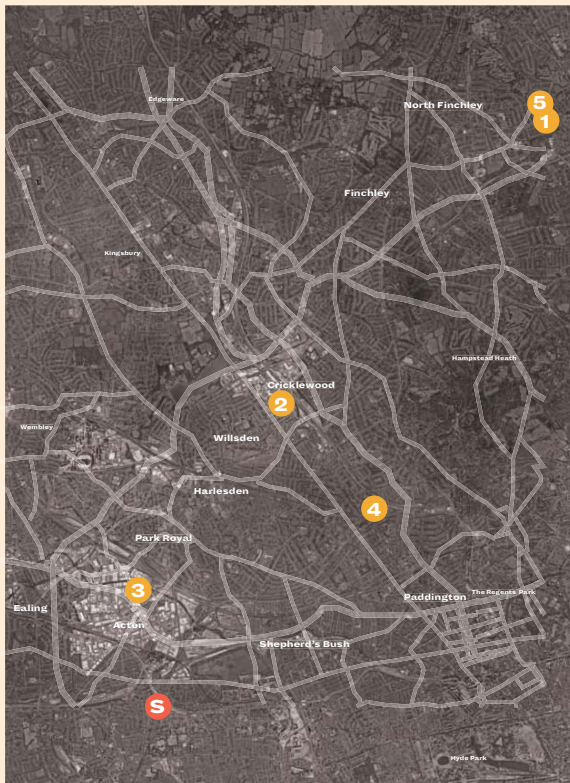
1.01 The Client & Brief

The site is owned by our client, Bellaview Properties Ltd. which is part of the same group of companies as Builder Depot Ltd. Builder Depot are a chain of London based independent builders' merchants. It is proposed to redevelop 227-239 Horn Lane to provide a sustainable, cutting edge builders' merchant to augment their existing portfolio whilst also optimising the opportunity that the brown field site presents to provide high quality homes and affordable housing.

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1.02 Builder Depot



Builder Depot is one of the leading independent builders merchants in the UK focused predominantly on catering to the trade. It was founded in 2001 on industry experience of over 100 years as a specialist in timber & plywood. The company has since evolved and developed to cater for all trade and home improvement needs.

Builder Depot currently has four warehouse based London branches, strategically located along the North Circular between North to West London and has plans to expand this network of stores over the coming years.

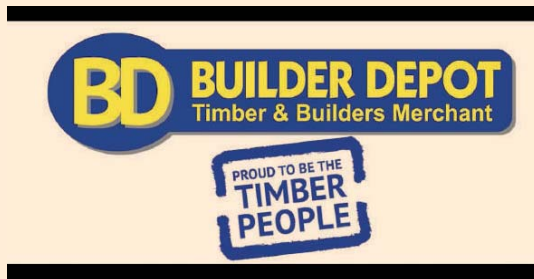
Update Map

- S Application Site**
- 1 New Southgate**
- 2 Staples Corner**
- 3 Park Royal**
- 4 West Hampstead**
- 5 E-commerce**

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1.03 A Vision for Horn Lane



Builder Depot is a family run business employing 400 people across North and West London. They run a large apprenticeship scheme with guaranteed employment on completion, and also employ multiple generations of the same family, with jobs open to all staff children on leaving school. They are deeply embedded within the communities in which they operate and take their responsibilities as an employer seriously. It is the client's vision to bring this business approach to Horn Lane, in line with their other operational sites.

The proposals present an opportunity for a flagship depot, leading the way in the new modern, sustainable approach to builder's merchants and reducing the environmental impact on the surrounding area. Builder Depot already use electric forklifts, operate with a hybrid delivery fleet, have a waste recycling strategy in place and work with suppliers who are developing sustainable technology. They see this scheme as an opportunity to create a builders merchant which is technologically advanced, sustainable and efficient.



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1.04 The Challenge

Creating a new, modern builders' merchants on the ground floor with associated delivery and customer parking...



...while also....



...Providing high quality sustainable homes and associated landscaped amenity with good light, views, a safe and welcoming access and residential servicing and amenity.

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2. **Our Approach**

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A successful scheme will be...

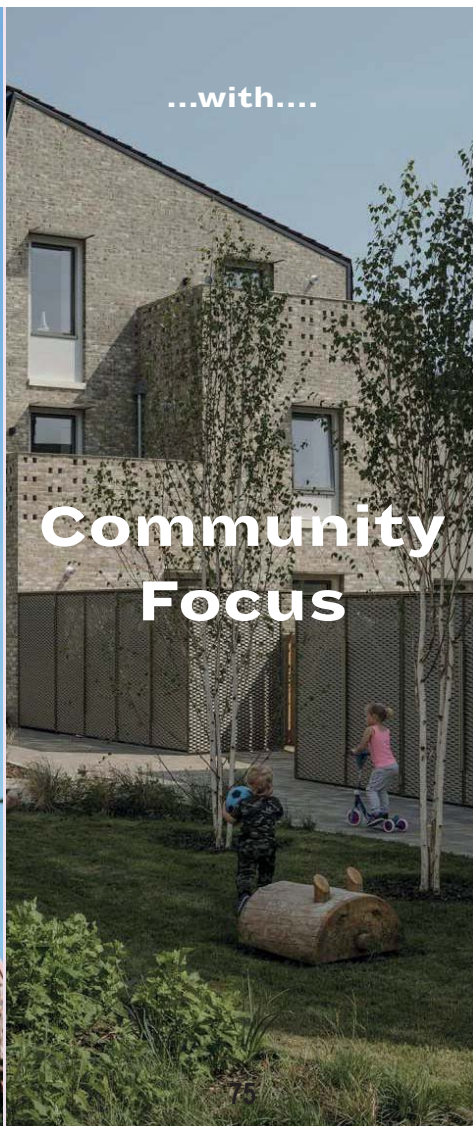
Aspirational

Contextual

Sustainable

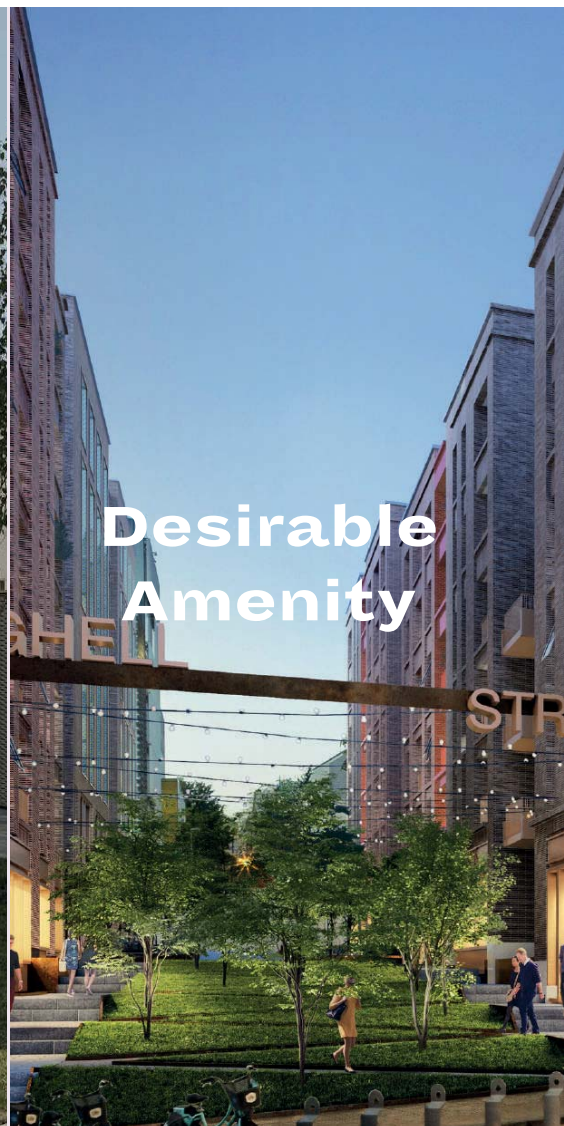


**Quality
Design**



...with....

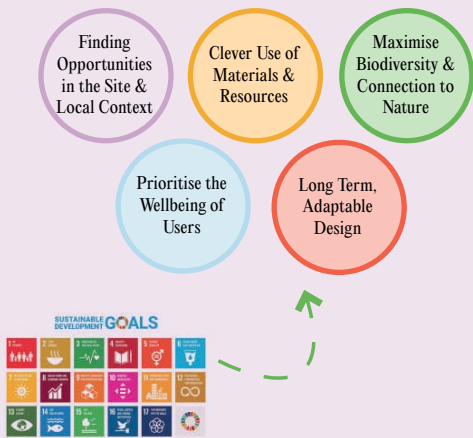
**Community
Focus**



**Desirable
Amenity**

2.01 BGY Sustainability

Principles informed by the UN Sustainable Development Goals



A dedicated Sustainability team



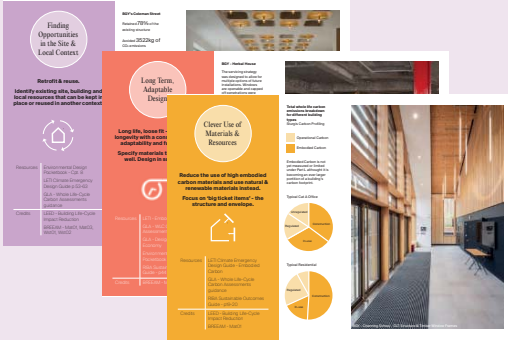
Pan industry collaboration

University of East London



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Bespoke in-house resources

2.02 Sustainability Goals for Horn Lane



ENERGY & CARBON REDUCTION

Electrification / fossil fuel elimination and renewable energy



SOCIAL VALUE

Local supply chain engagement and improving public realm



PASSIVE DESIGN

Embrace all opportunities for passive design including utilising heat recovery and SUDs



TRANSPORT

Best in class cycle storage



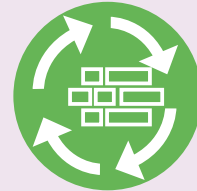
QUALITY HOMES

Design light, bright and comfortable spaces



BIODIVERSITY

Gardens and terraces with biophilic design strategy



CIRCULAR ECONOMY

Continually reusing and re-purposing buildings, materials & resources; and design for future uses.

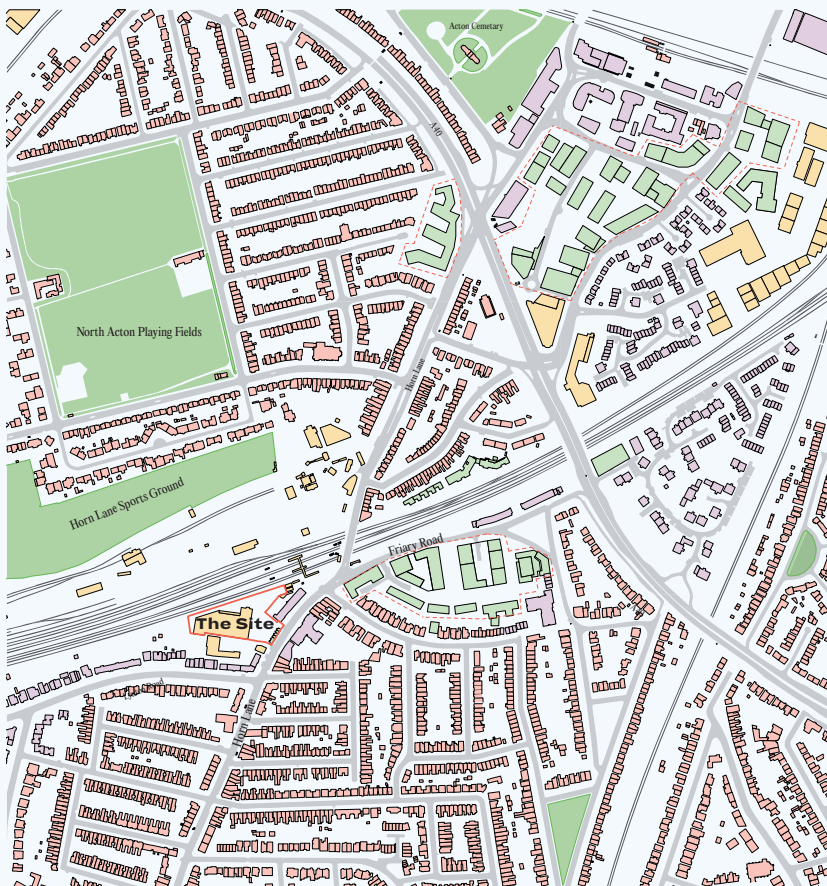
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3. **The Surrounding Context**

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3.01 The Context

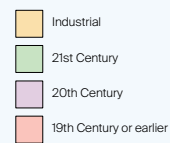


The site is located to the south west of Acton Main Line train station. The context is made up of primarily mid to late 19th century housing with modern high rise developments emerging around North Acton tube station to the north and on Friary Road directly to the east.

There are generous green spaces to the north in Horn Lane Sports Ground and North Acton Playing Fields.

The site benefits from being located in Flood Zone 1 (Low Risk).

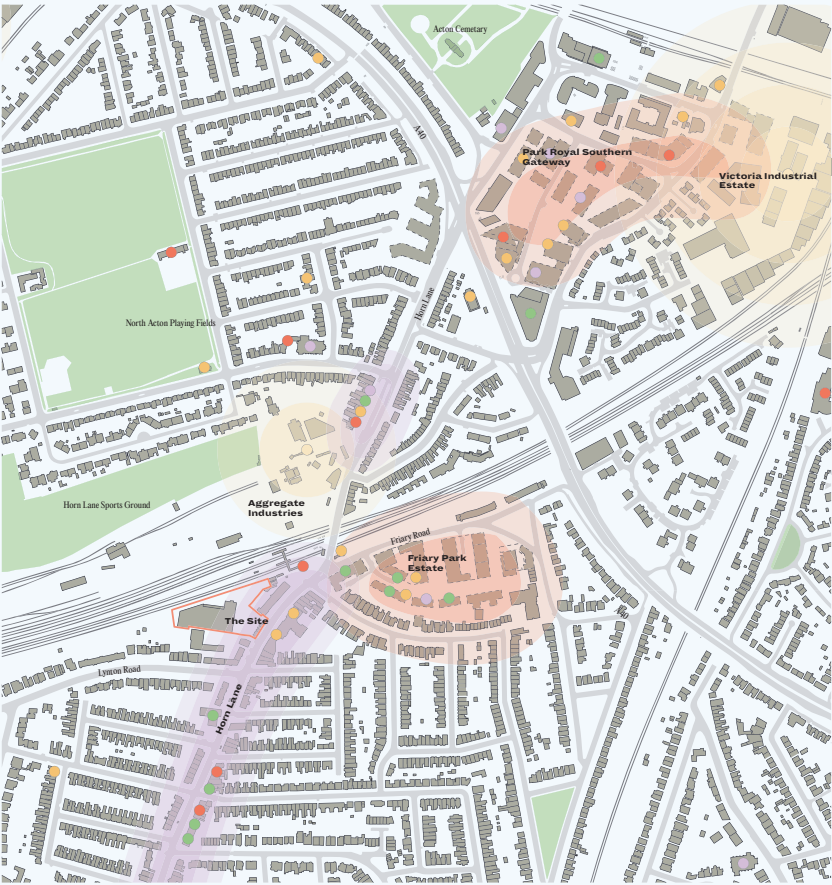
Thames Water have confirmed (via Pre-development enquiry) that proposed surface and foul water can be discharged to sewers in Horn Lane.



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3.02 Area Character



Horn Lane has a vibrant and thriving mix of shops and services with residential accommodation above.

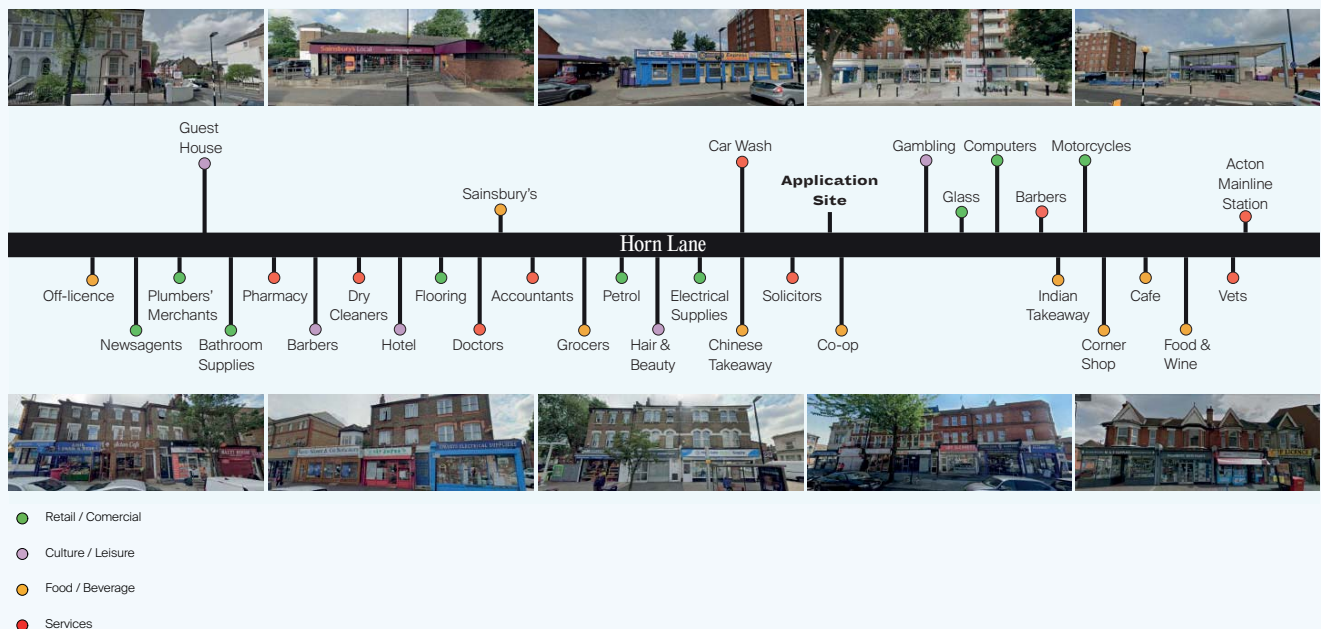
New high rise residential developments are emerging around North Acton train station to the north with the Park Royal Southern Gateway and to Friary Road directly to the east with the Friary Park Estate. These new developments are fundamentally changing the historic and predominantly low rise character of the area.

There are also protected light industrial sites directly to the north of the railway line and also further to the north west and north east.

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3.03 Local Amenities and Building Types

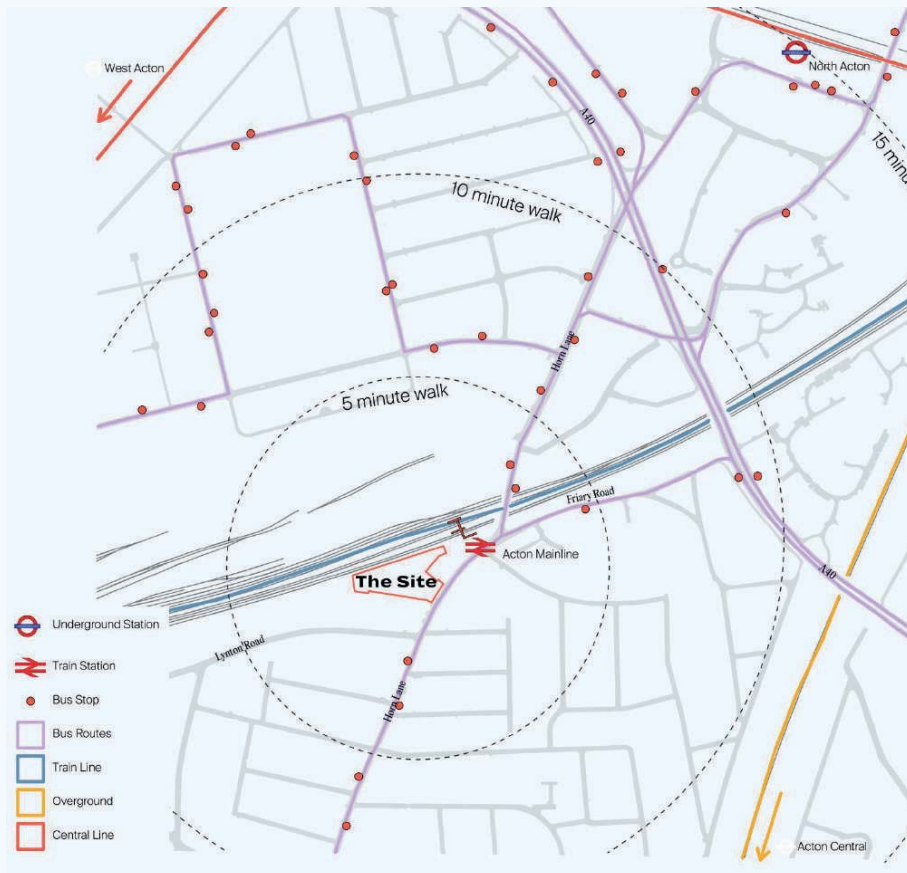
The diagram and photographs below show the mix of commercial shops, services, and building types along Horn Lane. This illustrates the vibrant and established setting into which the proposed new homes a new purpose-built builders' merchant space would fit within.



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3.04 Excellent Transport Links



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The site is bounded by railway lines to the north, commercial and residential properties to the south-west and north-east and Horn Lane (A4000) to the south-east.

Vehicle access to the site is via Horn Lane and there is a zebra crossing located across Horn Lane to the south of the existing access. The existing access junction provides right of entry to the builders merchant, the rear of Acton House and provides access through the site to the Network Rail compound located to the west.

The site is located just outside of controlled parking zone (CPZ) MM which restricts on street parking from Monday to Friday between 9am to 10am and 4pm to 5pm.

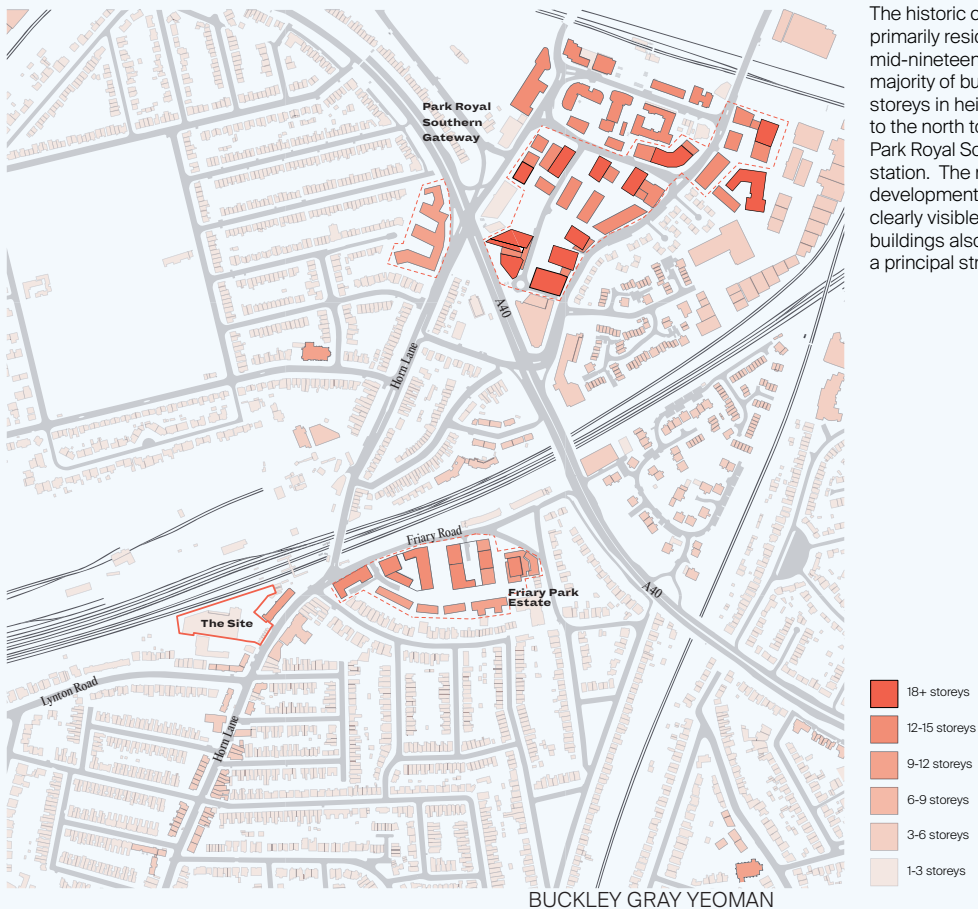
Public Transport Accessibility Level (PTAL)

The site has an Access Index (AI) score of 9.05, equating to a PTAL of 2 on a scale of 0 to 6b where 6b is the most accessible. The closest bus stop is located within a 3 minute walk of the site on Horn Lane/Faraday Road and is served by bus routes 266, 440 and N266. Acton Main Line Station is situated circa 200m and less than a 2 minute walk to the north of the site and North Acton Underground station is 1080m (16 minute walk) from the site. PTAL considers rail stations within a 960m walking distance and although North Acton station is excluded from the PTAL calculation it is still within a walkable distance.

Future PTAL

A manual PTAL calculation has been undertaken to account for the Elizabeth Line from Acton Mainline which currently provides 4 trains per hour into Central London. The manual PTAL calculation indicates that the application sites PTAL will increase from a PTAL 2 to a 3.

3.05 Emerging Height

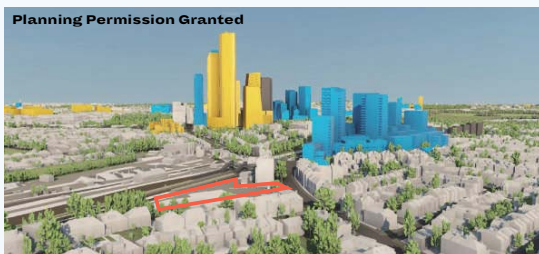
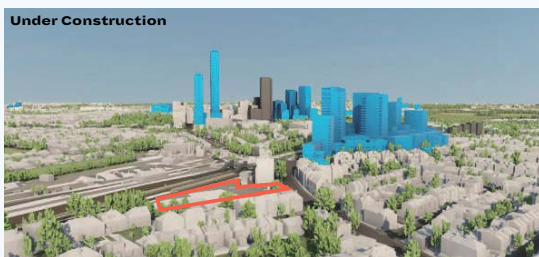


The historic character of the surrounding area is primarily residential with low rise housing from the mid-nineteenth to mid-twentieth century, with the majority of buildings around the site being below five storeys in height. The heights can be seen to rise up to the north to the emerging high rise development Park Royal Southern Gateway around North Acton station. The recently commenced Friary Park Estate development directly to the east of the site is also clearly visible as an island of taller buildings. Taller buildings also exist along Horn Lane, defining this as a principal street in the area.

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3.06 Emerging Context



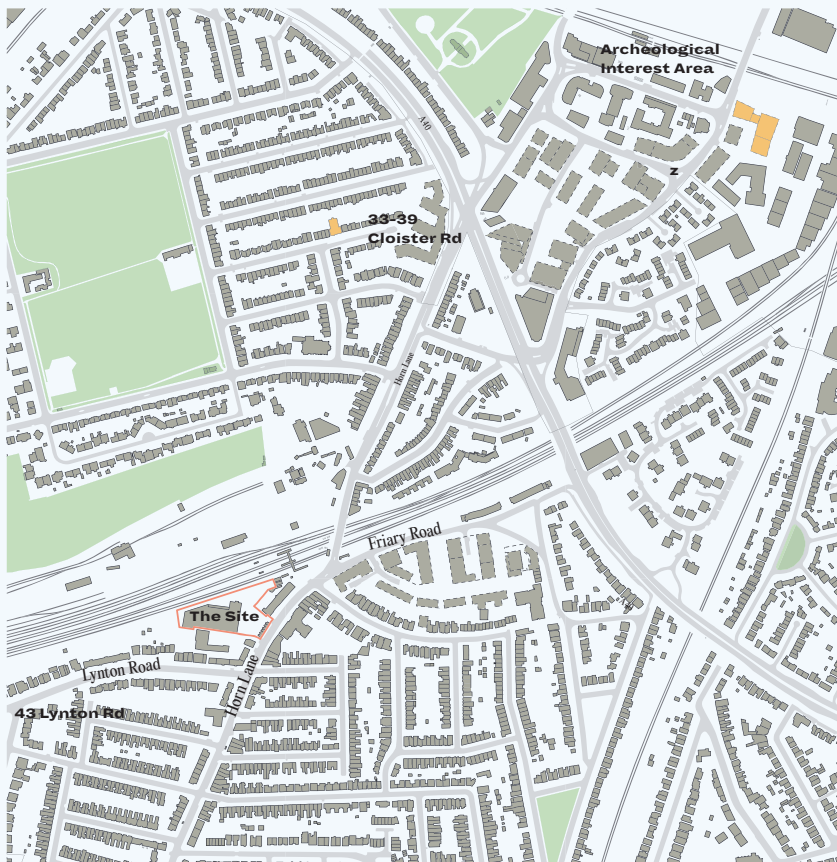
These images illustrate the significant changes that are occurring to the context of the site. The proposals for the development of the application site have not taken these emerging heights as a driver. Instead we have used the immediate context to inform scale, height and appearance.

Consented
Under Construction

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3.07 Heritage & Conservation Area



The site is not listed nor is it within a Conservation Area. The immediate context to 239 Horn Lane includes no designated heritage assets, with the nearest Conservation Area (Acton Park) located 0.8km to the south. There are a few locally listed buildings within 500m of the site, the nearest being 41 Lynton Road W3 9HL to the west. The nearest statutorily listed buildings are south (circa 1km) within Acton Town Centre.

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3.08 Network Rail



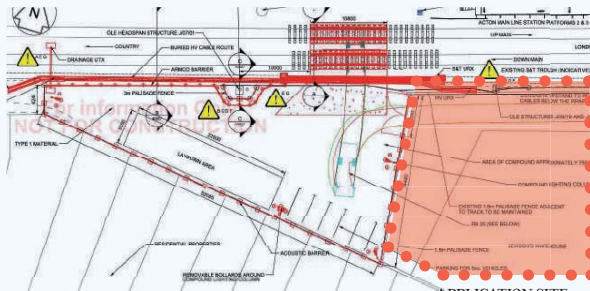
Extract from Arcadis Maintenance Strategy Report

Network Rail have published proposals to develop the existing area of scrubland to the west as a service yard to allow access to the railway line for maintenance.

To facilitate this use, access is required for railway maintenance vehicles across our site from the site's existing Horn Lane access. The vehicles will then proceed west along the site's northern boundary to the service yard.

Title restrictions also require that no building works are carried out within a distance of 3m from the boundary with the railway. We have added an additional 4m to this buffer to allow for construction zone and later for two-way traffic.

If the access beside the North Pole is not viable an alternative location has been developed by Arcadis. This is at Jewsons Yard, beside Acton Mainline Station to the west of the project area. Agreement for this access would need to be made. The access point would serve construction vehicles during construction and have a larger capacity during the phase to permit an SRS PKR750. After this in the operational phase the access will be limited to SRS RB 25 vehicles for maintenance. The compound will have lighting and a laydown area.



APPLICATION SITE

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4. **The Site**

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4.01 The Site



The site is an irregular shape. The longest boundary to the north borders directly on to the railway line. The short boundary to the east borders an electricity substation and sits directly behind the train station. To the short boundary to the west is an area of overgrown scrubland. The southern boundary abuts partially on to the back gardens of the houses on Lynton Road but mainly onto a construction plant storage yard and the existing hand car wash site. The eastern boundary is split, part backing onto the car park and garages to the rear of Acton House with a short frontage onto Horn Lane itself.

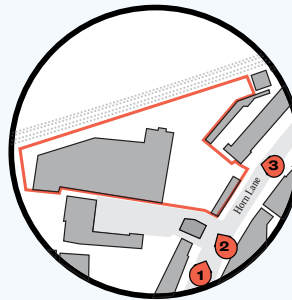
The site currently houses a Jewson's builders merchant consisting of a number of large pitched roofed warehouses surrounded to the north by materials storage areas and to the east by customer parking.

The buildings that abut Horn Lane are single storey, flat roofed buildings that are currently vacant.

The existing buildings are of little quality and the buildings to Horn Lane do not contribute positively to the street.



4.02 The Site - Street Views



The site is situated on Horn Lane between the seven storey Acton House to the north and the hand car wash site and three storey Fells Haugh apartment building to the south. A run of single storey buildings face on to Horn Lane and are set closer to the pavement edge than the buildings to either side.

The north edge of the site is concrete surfaced and used to provide access both to the parking and garages to the rear of Acton House and for customer and delivery vehicle access to the builder's merchants. There are windows in the upper floors of the south gable of Acton House.

The land to the south edge of the site is also concrete surfaced and used for access to the construction plant yard and for the hand car wash.

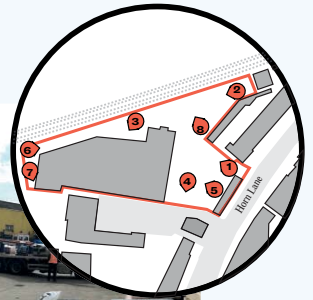
The site is positioned on a slight bend in Horn Lane and as such forms a prominent position on the street in views from further up and down Horn Lane.

The site benefits from being located in Flood Z one 1 (Low Risk). Thames Water have confirmed (via Pre-development enquiry) that proposed surface and foul water can be discharged to sewers in Horn Lane.

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4.03 Site Photographs



4.04 Planning Context

Site Allocation – ACT6: Acton Crossrail Station

The site forms part of the wider 'ACT6 Acton Crossrail Station and 239/265/267/305/207 Horn Lane' allocation within Ealing's Development Sites DPD for the following development:

"Consolidation of industrial, aggregates and waste facilities to the north of railway, safeguarding of the rail sidings, and introduction of commercial and residential (potential for student accommodation) uses south of the railway, compatible with the functioning of the station."

Relevant development principles set by the allocation include the following:

- Contribute to an improved sense of place around the redeveloped station through delivery of a high density, high quality mixed use development, including commercial and residential uses, that optimises the development potential of the site.
- Opportunity to deliver a significant piece of new architecture that responds positively to the station redevelopment within the context of the surrounding residential neighbourhoods and existing commercial uses on Horn Lane.
- Designs should optimise the development potential of the site and deliver a significant improvement to the townscape of the area through emphasising the location of this key transport node.

- Any residential units proposed should be dual aspect (north facing single aspect units are not acceptable) and buildings should be orientated to maximise sunlight and daylight. Both balconies and communal garden space will be expected in flatted schemes; communal garden space may be provided above ground level in the form of courtyards or roof gardens.
- Designs must include measures to mitigate the impact of railway noise and be based around a layout that ensures sufficient privacy and adequate outlook for residents of both the new development and existing residential properties.

Secondary Shopping Frontage

The terrace of properties which comprise the 'Builder Depot' fronting Horn Lane are located within a designated 'Secondary Shopping Frontage'.

Brownfield Land Register

The site is included within Part 1 of the Council's Brownfield Land Register and has been assessed as being appropriate for residential development. 'The site is designated as a Strategic Area for Regeneration and Area for Intensification within the

'Ealing Character Study (January 2022)'.



Site Area: 6.84ha

Ownership: Private and Network Rail

Current Use: Aggregates recycling depot, commercial waste transfer facility and construction materials to north of railway, Acton Mainline Station and Builders Yard to south of railway.

Development Strategy Policies: 1.2 (d), 1.2(g), 1.2(j), 2.4

Setting: Urban

PTAL: 2-5

Planning Designations:

Safeguarded Waste Transfer Facility
Safeguarded Aggregates Depot, Green Corridor
Adjacent to Horn Lane Sports Ground Community Open Space

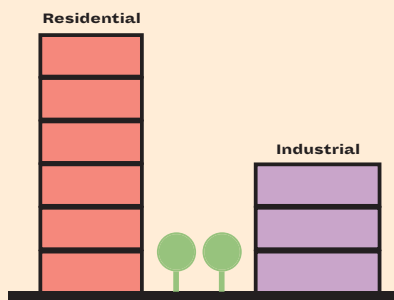
Relevant Planning Applications: None

5. **Strategic Investigations**

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5.01 Strategies for a Mixed Use Scheme

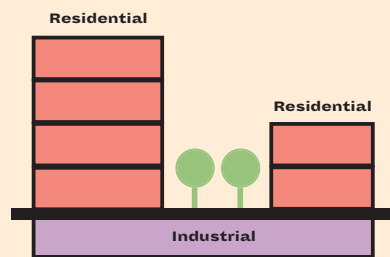
We looked at a number of different approaches for how we would separate and locate the industrial and residential uses.



Multi-storey warehouse as separate block



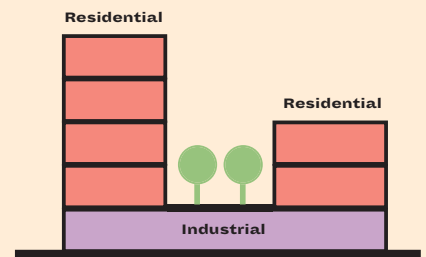
- Builder Depot advised that a multi-storey format would not suit their business model
- Multi-storey format not viable for non-automated light industrial use
- Light industrial service yard, and large vehicle access are on same level as Residential Landscape & Access, potentially compromising quality and safety



Warehouse as basement with residential above



- Change of level to light industrial not suitable for Builder Depot's business model. Additionally access, deliveries and service yard to warehouse become compromised.
- Landscape and residential access could be separated from light industrial use, but this would compromise the light industrial functionality.



Warehouse as podium with residential above



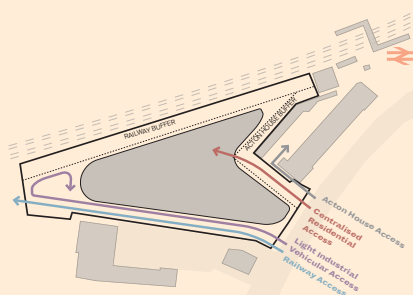
- Light Industrial is able to be fully functional with usable access points and servicing on the ground floor
- Landscape and residential access is separated from light industrial use optimising the quantity of external space provided

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5.02 Site Access Strategy

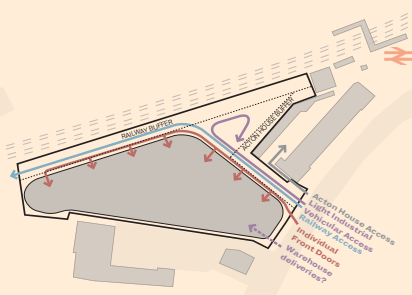
Different options for site access and circulation were also explored. The conclusion was that segregated access for different modes of entry and for different users would be the most practical approach.



New Southern Access Road



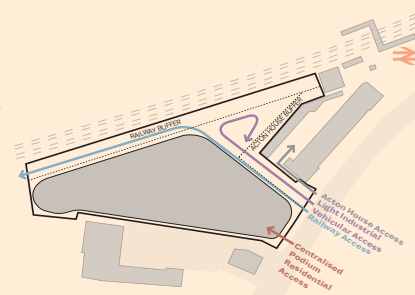
- Inefficient use of site as buffer zones and access routes are separated out
- Almost negligible street frontage to Horn Lane
- New access would block zebra crossing and cause vehicular safety issues
- Development site becomes island surrounded by roads



Single Access Point as Existing



- Safety and quality of residential access compromised by sharing space with large vehicles required for Industrial and railway use
- Ground Floor rear & railway buffer activated by front doors
- Given residential & railway requirements, limited potential for landscaping and trees to ground floor access routes
- Option to bring articulated lorry deliveries straight off Horn Lane into Warehouse was discounted due to Transport specialist advice



Segregated Access



- All pedestrian and cycling residential access is from Horn Lane, avoiding any overlap with heavier vehicles
- Residential servicing such as refuse collection can still occur to perimeter of building
- Efficient use of buffer zones to double up as access routes

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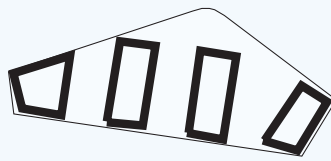
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6. **Developing a Site Strategy**

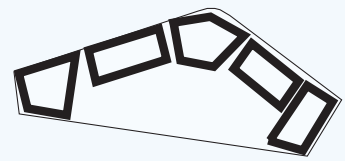
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6.01 Residential Massing Approach

Two approaches to the development of the site that responded to the requirements of the brief and the site constraints were considered during the initial site strategy development, a 'radial' approach and a 'courtyard' approach. Both approaches looked at creating a raised podium level to achieve both a large warehouse space alongside a generous landscaped area.



Radial approach



Courtyard approach

6.02 Radial Approach

The radial approach was discounted following initial investigations with the consultant team due to issues with structure, daylight/sunlight, overlooking and most critically townscape. The spaces between the blocks would be overshadowed for significant periods of the day and the buildings appear out of context when viewed from Lynton Road.

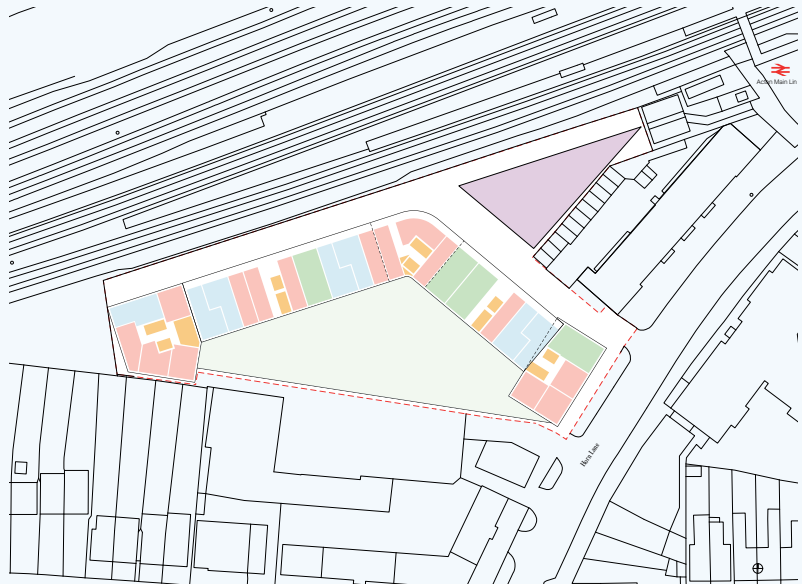


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6.03 Courtyard Approach

The courtyard strategy comparatively was seen to offer a positive approach to the site. A generous and open south facing central landscaped area that is shielded from the noise from the railway line by the buildings, alongside the opportunity to sculpt the form and profile of the buildings to respond to the different nature of the buildings and spaces to the boundaries. The approach also offered functional benefits, a large space under the landscaped area where the structural grid can be set to be optimal for the warehouse use and the cores can be positioned to the perimeter allowing for servicing and escape.

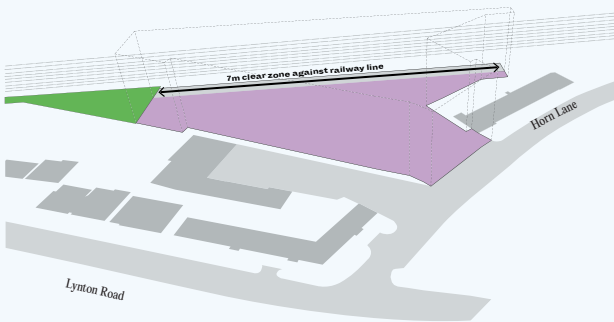


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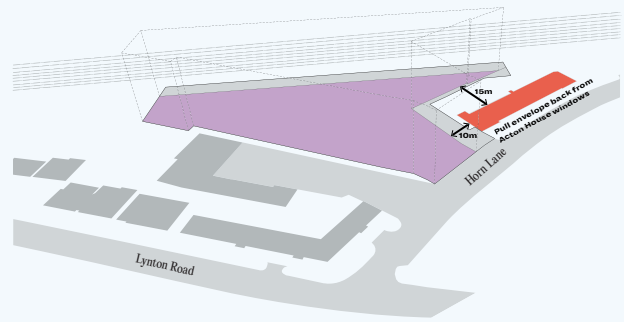
6.04 Site Layout Diagrams

Railway Access



Network Rail requires that a 3m clear zone from overhead electrical cables is left alongside the railway line with an additional 4m allowed for construction traffic and operations. This clear zone will also provide a buffer between residential units and the potential impacts of the railway. The clear zone can be used as an access route by Network Rail to the planned service yard to the west of the site.

Adjacent Buildings



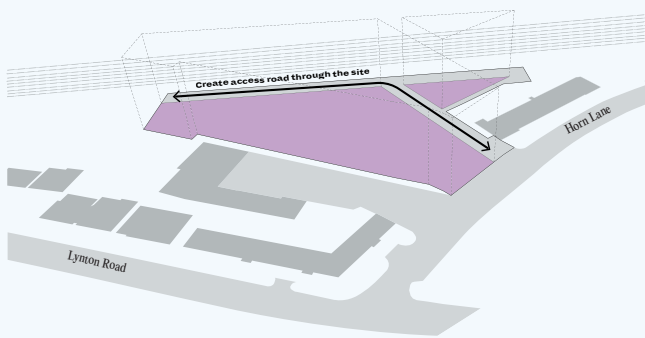
Acton House to the north east of the site has windows to the rear and side elevations. Due regard needs to be made to these in terms of daylight and sunlight and overlooking. The buildable area has been pulled back to provide a buffer to Acton House. This will be further refined during the design development with detailed daylight / sunlight analysis.

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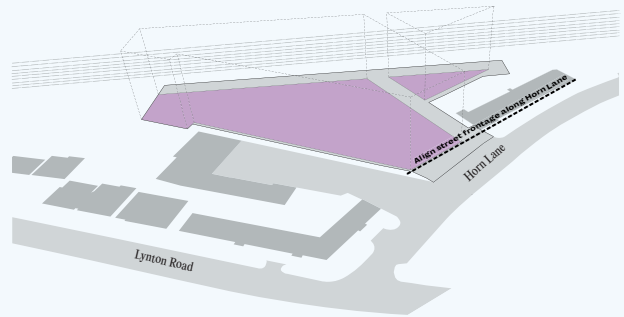
Site Layout Diagrams

Access Road



Options were considered as to where the vehicular access point to the site should be. Retaining the existing access route was deemed the most appropriate solution as it serves the dual purposes of also pulling the building envelope away from Acton House and avoids impacting the existing zebra crossing.

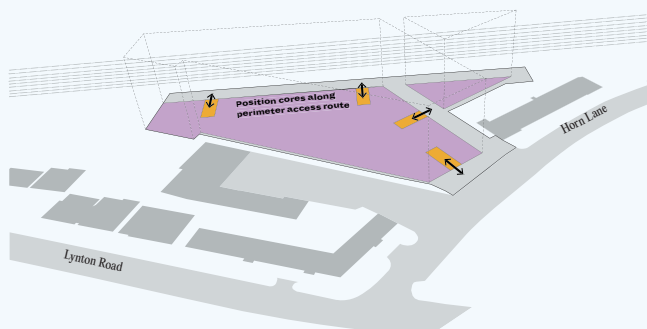
Street frontage



Horn Lane is a wide tree-lined street with generous pavements and buildings set back from the road. The proposal would seek to continue this and align the buildings fronting onto Horn Lane with adjacent buildings to the East and West.

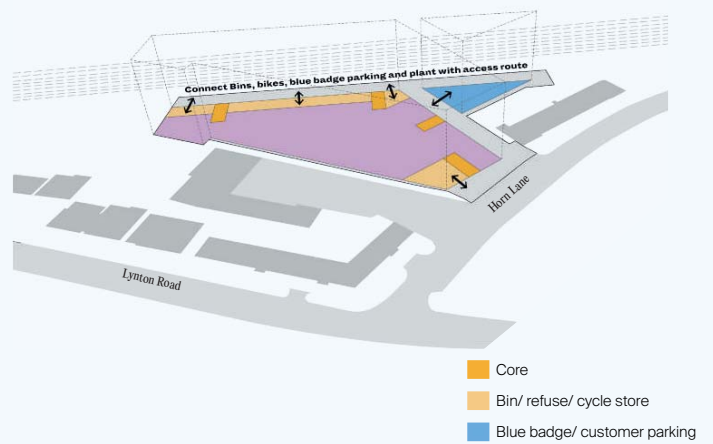
Site Layout Diagrams

Cores



In order to provide service access, conform to a structural grid, and minimise routes to bin stores, the cores have been positioned along the outside edge at ground level. While the primary entrance will be at podium level, the cores reaching ground floor will serve as "back doors" and also allow easy access to blue badge car drivers and refuse stores.

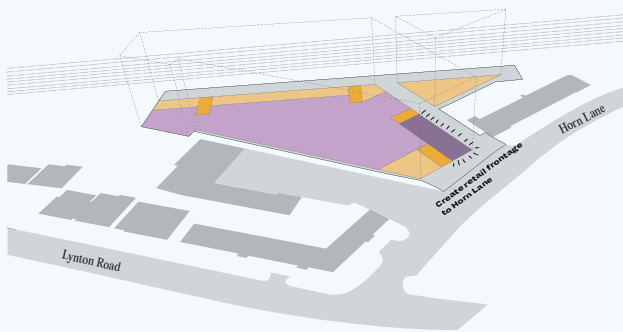
Residential Services



Blue badge parking spaces, refuse collection points, bin stores, cycle stores, and plant have are provided at the perimeter of the building envelope and connected to the cores.

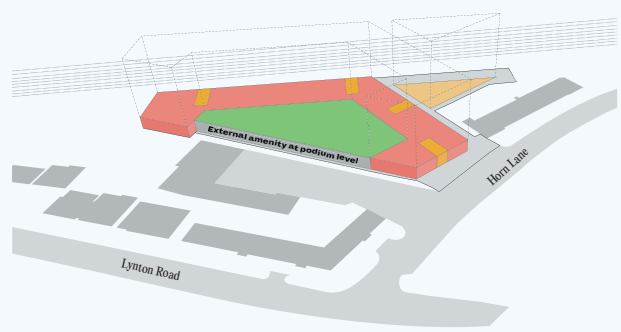
Site Layout Diagrams

Retail



A retail frontage that relates to the builders' merchants will activate the Horn Lane facade, and return into the site along the access route.

External Amenity at Podium Level



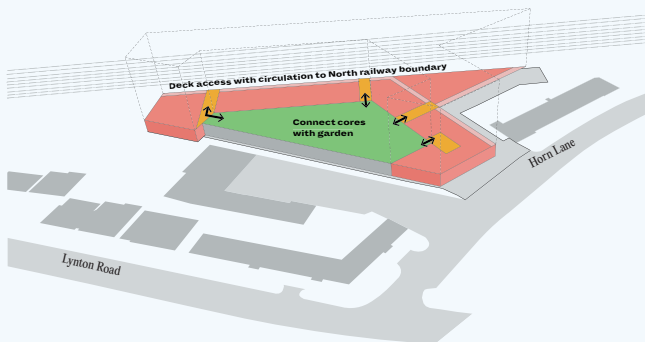
With the ground floor occupied by the builders merchants, the external amenity is raised up above it at podium level with the residential buildings surrounding it to the north and providing enclosure to the central landscaped space. The external amenity is open to the south-west meaning that it will be a sunny and pleasant space to occupy.

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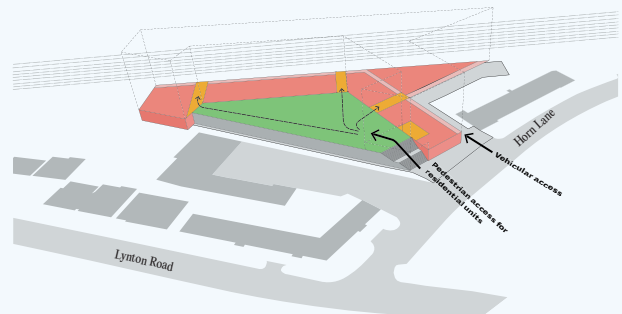
Site Layout Diagrams

Internal Circulation



By running deck access along the perimeter of the buildings a further buffer is provided between the apartments and the railway / Acton House. Deck access also allows for the apartments to be primarily dual aspect in a site with a predominantly northern edge. Opening the cores up onto the garden creates a connection between internal and external residential amenity.

Routes Through

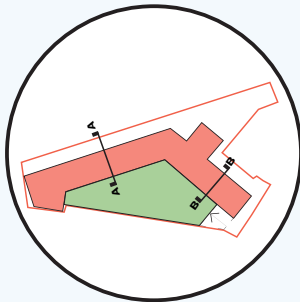
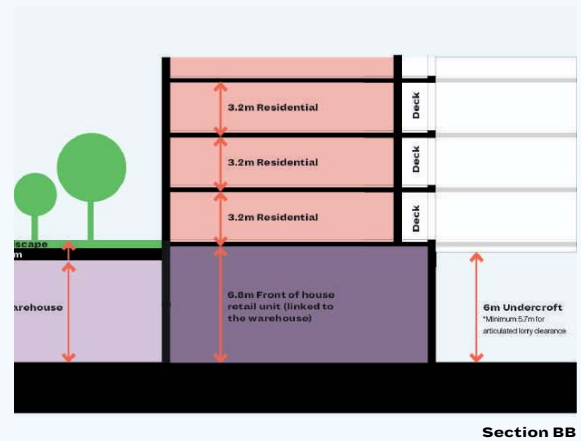
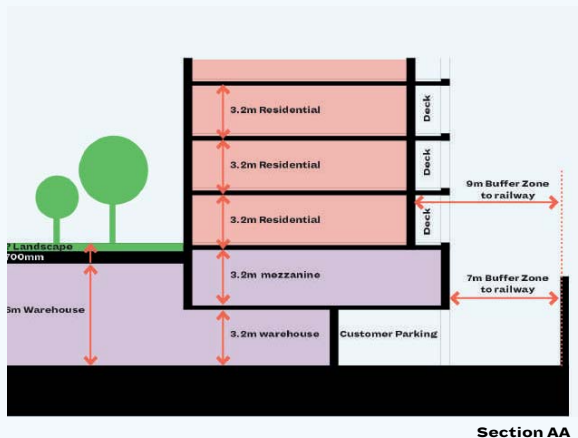


In order to further create a distinction between the residential part of the scheme and the industrial builder's merchants below the access points have been entirely separated. The entrance for cyclists and pedestrians to the residential scheme is directly off Horn Lane with cycle parking at ground level and pedestrian access up to podium level where the front doors are located off the communal garden space. The vehicular route, is located on the existing access road alongside Acton House.

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6.05 Vertical Zoning



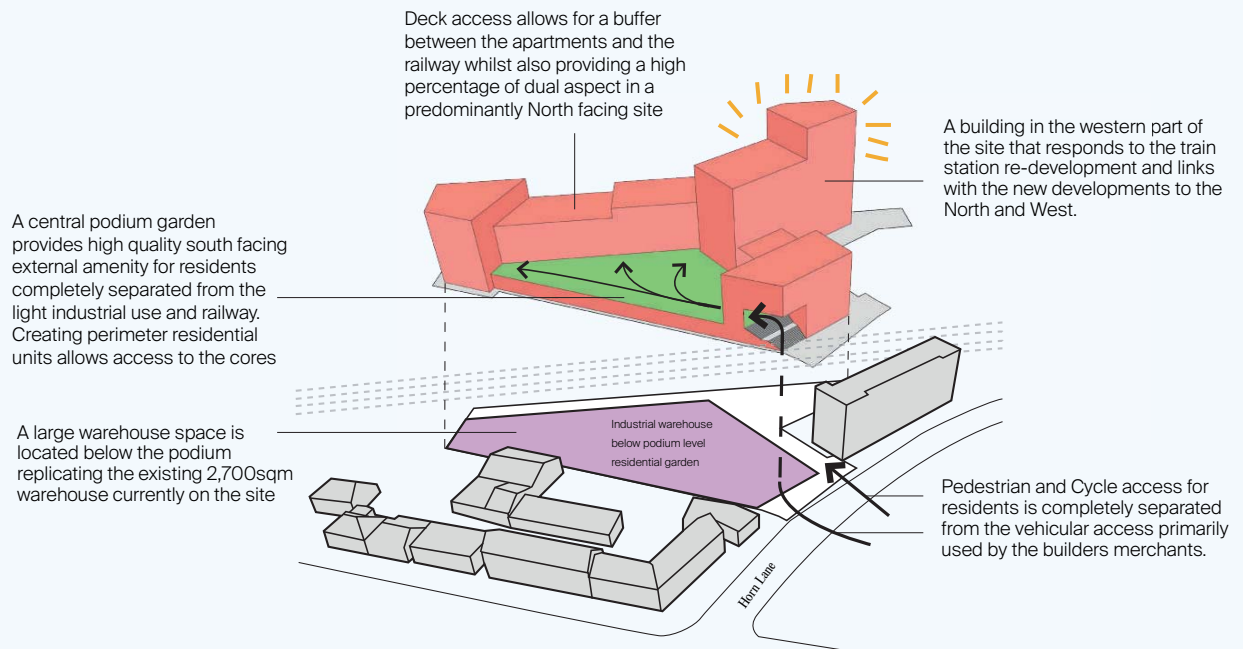
The podium is raised 7.2m above street level to provide the optimum floor to ceiling height for the proposed builders' merchants housed under and allows for structure, insulation and landscape build-ups. This height also means that large vehicles can pass below the upper residential element where it crosses the access road.

The landscaping build up to the top of the podium results in the residential blocks being raised further above the ground to achieve a level threshold offering the opportunity to include a mezzanine floor to the perimeter.

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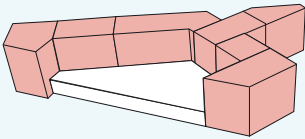
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6.06 A Mixed Use Scheme

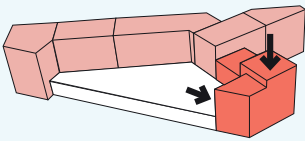


6.07 Height

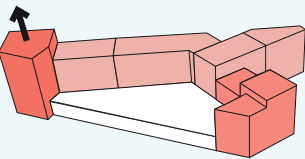
These design development sketches show how the massing of the courtyard scheme evolved.



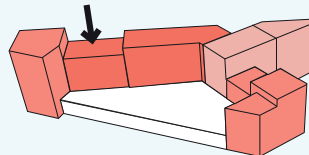
1. Seven storey scheme relating to the height of the adjoining Acton House



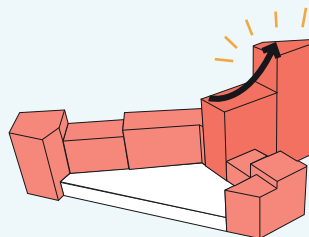
2. Sculpt Horn Lane Block so that it sits subservient to Acton House and transitions the scale down to the buildings to the west.



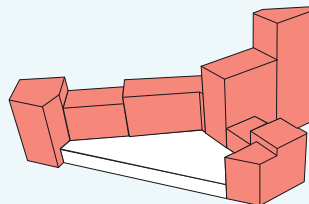
3. Raise Lynton block slightly so that it acts as a "full stop" to the linear block, while still respecting the suburban scale of the houses on



4. Break up the mass of the linear courtyard block, reducing the height of the western side in order to build up to the eastern corner of the site



5. Raise Station block up so that it responds to the re-development of Acton Mainline Station, emphasising its location and relates to the new developments to the North and East

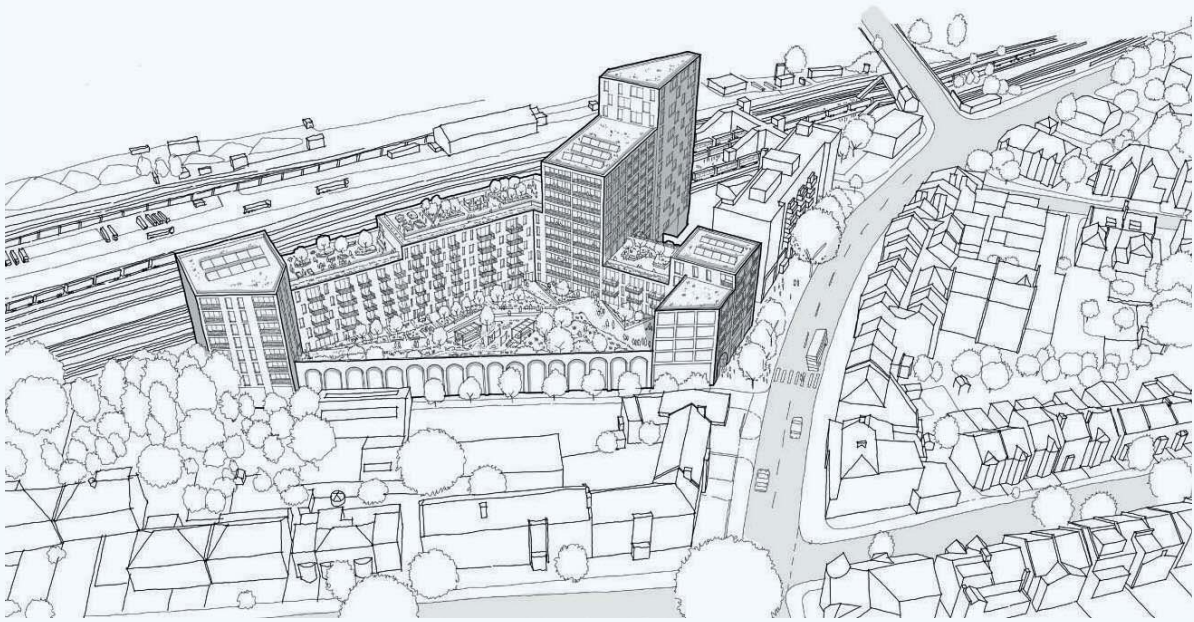


6. A varied and nuanced scheme which responds to the suburban houses on Lynton Road, the buildings along Horn Lane including Acton House, and the train station and new developments to North and East.

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6.08 Aerial View



Early design sketch - Aerial view

This sketch shows an overview of the evolving massing proposals. The residential blocks will sit around the perimeter of the plinth formed by the warehouse on the lower floors. To the north and east, the blocks will enclose a central garden courtyard, providing a buffer to the noise from the railway line and builders' merchant activity. To the south and west, the garden space will benefit from good aspect and sunlight levels.

End and corner blocks step up from lower 'link' elements. The opportunity for height is greatest at the corner Station Block which is set back from Horn Lane and the houses on Lynton Road and sits close to the railway line.

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6.09 A New Presence on Horn Lane



Early design sketch - View from Horn Lane

With the Horn Lane Block, we proposed to move the building line back so that it lines up with the neighbouring Acton House to the east. (The existing single storey commercial block sits further out onto the pavement). The height of Acton House too is referenced in the height of this elevation.

The treatment of this street frontage is critical to the success of the scheme. The entrance arch to the residential courtyard and the generous shopfront windows will be important additions to the streetscene of Horn Lane.

6.10 Testing the Design

Having established the strategic principles of how to approach the brief and site, we tested this approach through a series of workshops, and evolved the design according to each of the following requirements:

Daylight / Sunlight

- Minimise impact on Acton House
- Consider impact on Pegasus Court
- Consider impact on Springfield Court
- Avoidance of shading to external amenity
- Optimal depth of plan to achieve suitable amount of light internally

Townscape

- Respectful of suburban scale of Lynton road
- Provides suitable variation along railway so as to not present a blank wall
- Opportunity for more height to rear of site adjacent to the railway line to mark redevelopment of Acton Mainline station and relate to new developments to North and East.

Design

- Variation of height to add visual interest
- Clear architectural language to unite varying forms
- Clear and inviting entrance sequence
- Activation on Horn Lane ground floor
- High quality modular apartment types
- Clear separation between industrial and residential use with limited impact on functionality and quality of either

Transport

- Keep pedestrian crossing on Horn Lane and maintain safe access for pedestrians
- Separate cycle access and storage from vehicular access
- Residential waste refuse lorry needs independent access and turning within site
- 3% of units will require blue badge parking
- Light industrial parking is determined by Builder Depot's business model
- Access, turning circle and height for articulated lorry and forklift to allow for deliveries to light industrial

Services

- Plant space required at ground floor and roof level
- Consideration that buildings over 50m have extra servicing requirements.

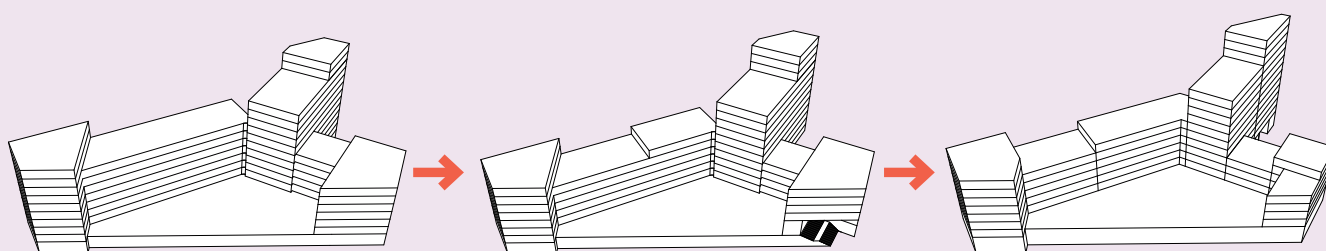
Structure

- Perimeter residential with modular units allows for regular structural grid and greater flexibility to light industrial space below podium
- Podium build-up allows for a mezzanine level within ground floor
- Parking spaces spaced within apartment modular grid in order to allow for most efficient structure

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6.11 Adjusting the Form



Initial massing study derived from site strategy:

- **Lynton Block:** Block raised slightly to act as full stop to courtyard, while also relating to the suburban houses on Lynton Road
- **Courtyard Block:** Linear deck access block which provides an edge to the podium and relates to the railway and the courtyard
- **Station Block:** An opportunity for some height marking the redevelopment of Acton Mainline railway and relating to the high rise developments emerging to the North and the East while also respecting Acton House.
- **Horn Lane Block:** Street facing block which relates to Acton House and Springfield Court providing frontage to Horn Lane

Massing following initial townscape workshop:

- **Lynton Block:** Further reduction in height to lessen impact on Lynton road
- **Courtyard Block:** Reduction in overall height to relate to Lynton block while introducing variation in height to add interest from the railway and step up to Station block
- **Station Block:** Increase in difference of height between two elements, with further height considered appropriate in this location from a townscape perspective to articulate the difference between the marker and the low rise courtyard blocks.
- **Horn Lane Block:** Introducing main residential access off of Horn Lane and beginning to consider how this might impact form

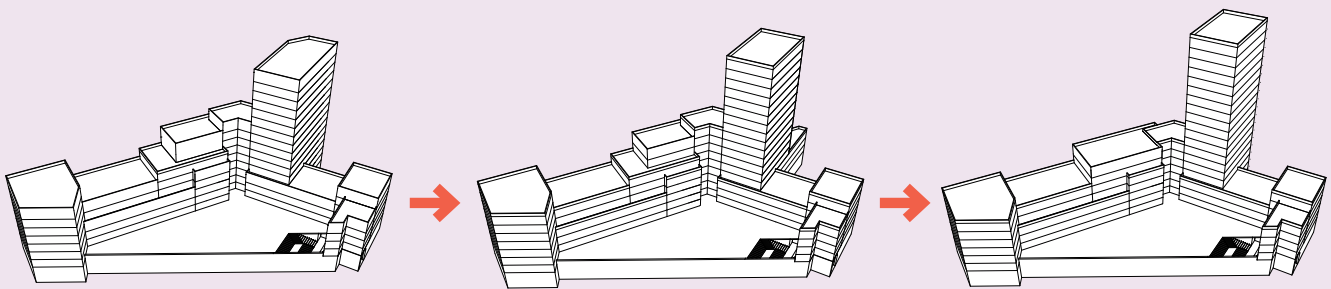
Refinement of block forms following internal layout exercise:

- **Lynton Block:** Refinement of form following internal planning of flats to create a more elegant external form
- **Courtyard Block:** Resolution of internal plan and junction with Station Block
- **Station Block:** Refinement to a more elegant form occupying a greater extent of the land behind Acton Mainline station, but a slimmer plan depth.
- **Horn Lane Block:** Sculpted so that it sits subservient to Acton House and transitions the scale down to the buildings to the west.

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6.12 Testing the Form



First round of detailed daylight analysis, in parallel to further plan development and form articulation

- **Lynton Block:** From a daylight perspective, further mass could be added to Lynton Block as it does not shade any adjacent buildings.
- **Courtyard Block:** Daylight analysis suggested that additional mass could be accommodated to rear of Station Block as there are no buildings to the North of the site, and therefore no impact from these parts of the site.
- **Station Block:** Station block pulled back in order to reduce impact on LKD's to Acton House. Height made uniform in response to location of core, and as a result of the reduced footprint.
- **Horn Lane Block:** Entrance to Horn Lane articulated further, and massing further eroded to relate to depth of Springfield court.

Further daylight testing suggested that relationship with Acton House could be further improved

- **Lynton Block:** No change
- **Courtyard Block:** No change
- **Station Block:** Further daylight analysis indicated that the relationship with Acton House could be further improved. Extending the footprint to the end of the site would be acceptable for up to six stories as it would be no worse than the mirrored massing scenario where Acton House is reflected over the boundary. Conversely, the relationship with Acton House would be improved if the tall building footprint was further reduced so that

Further townscape and design workshops to feed back principles other than daylight into the massing.

- **Lynton Block:** No change
- **Courtyard Block:** The additional massing to the courtyard block was felt to confuse the architectural hierarchy of a relatively lowrise scheme with a tall building emerging above it in an appropriate location.
- **Station Block:** The low rise element behind Acton House was felt to be of low quality internally, and unneighbourly to Acton House. Instead, the focus is on a slim elegant tall building which marks the station and

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7. **The Consultation Process**

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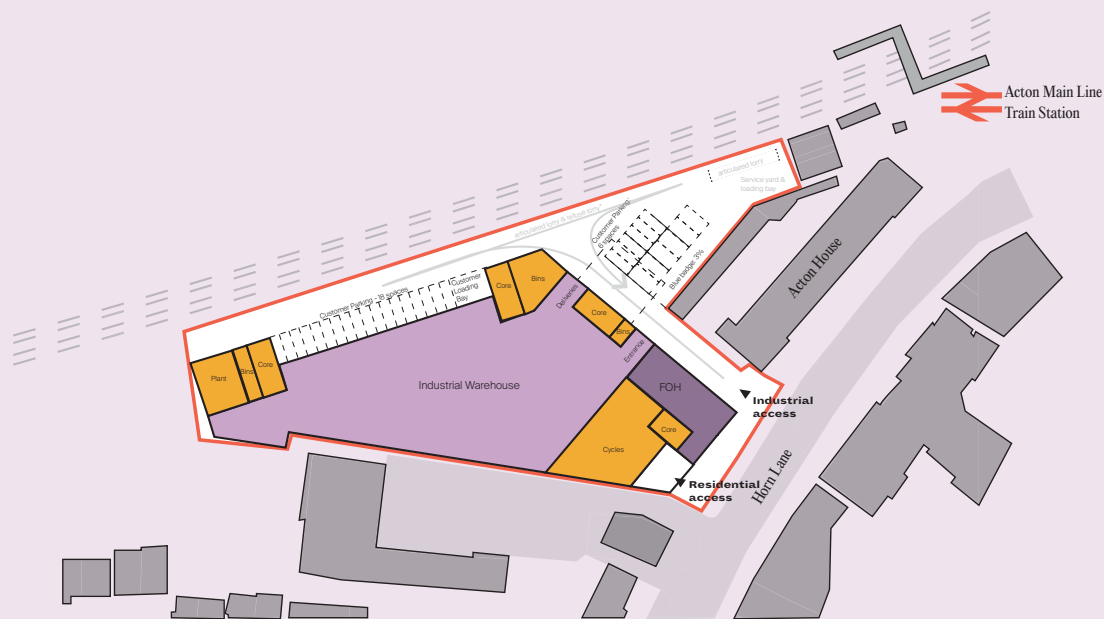
7.01 **Early Pre-Application Meetings**

The design proposals have evolved through our engagement with the local planning authority through the pre-application and consultation process. In particular, the early pre-application meetings and workshops were instrumental in informing the massing, form and height of the proposals. In the following pages we will discuss this early engagement in terms of the proposals put forward to the Local Authority, the feedback received and how the design team responded positively in evolving the scheme.

7.02
Pre-App 1

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7.03 Ground Floor Level Proposals



The ground floor plan evolved in response to the site constraints and context. It was proposed that the access road required for the Network Rail service yard would also be used to provide a route for deliveries and customer parking for the builder's merchants. By pushing the residential lift and stair cores and service spaces to the perimeter, this road would also be used for refuse collection, deliveries and servicing.

The proposals included kitchen, bathroom and flooring showrooms as part of

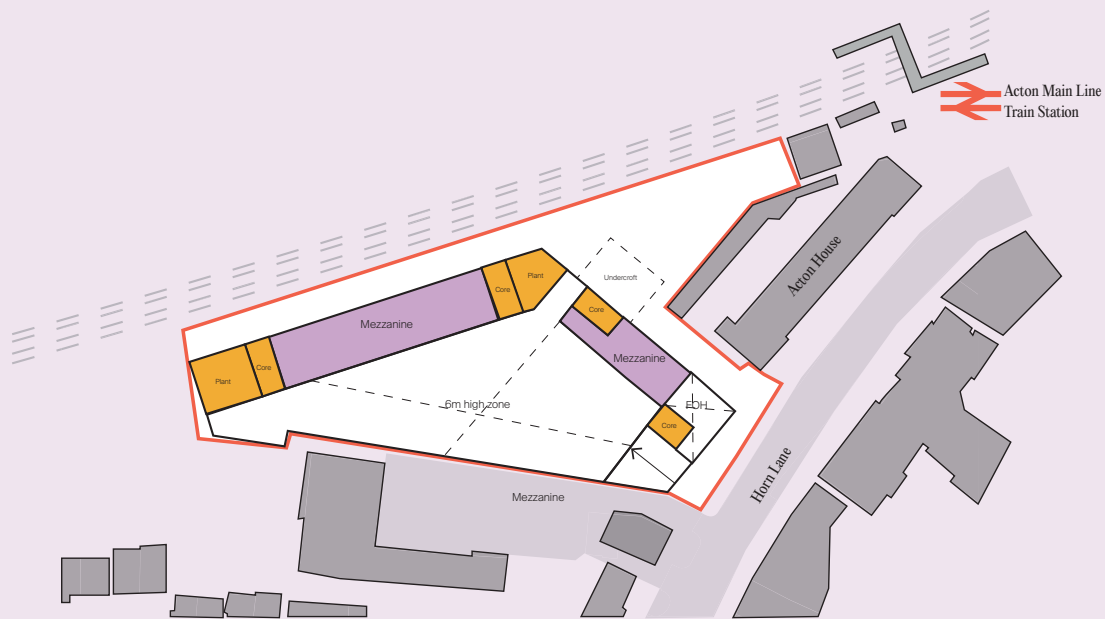
the builders merchants to be located on the north east corner of the site and provide an active, high quality shop frontage to Horn Lane.

Pedestrian and cycle access to the apartments would be set away from the access road to provide clear segregation and maintain separation between vehicle and pedestrian movement. A generously proportioned gated entrance courtyard provides access to a generous covered courtyard with stair and lift access to the podium above.

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7.04 Mezzanine Level Proposals



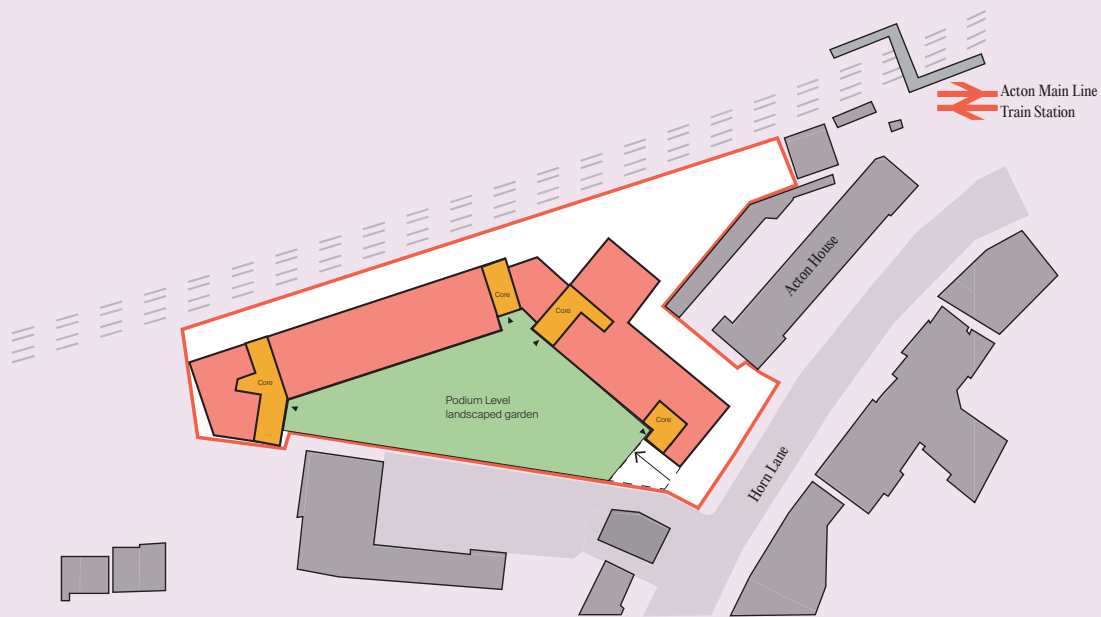
We explored the scope to provide additional light industrial floor area through a mezzanine in the perimeter space under the residential blocks. This would be beneficial in supplementing the clear warehouse area under the central courtyard over.

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7.05 Podium Level Proposals



A generous, south facing landscaped garden was proposed for the courtyard space in the centre of the residential blocks. Entrances to the residential blocks would be positioned on the edge of the central space, providing an active and social community space that would encourage chance meetings between residents and foster a sense of community.

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7.06 Upper Floor Level Proposals

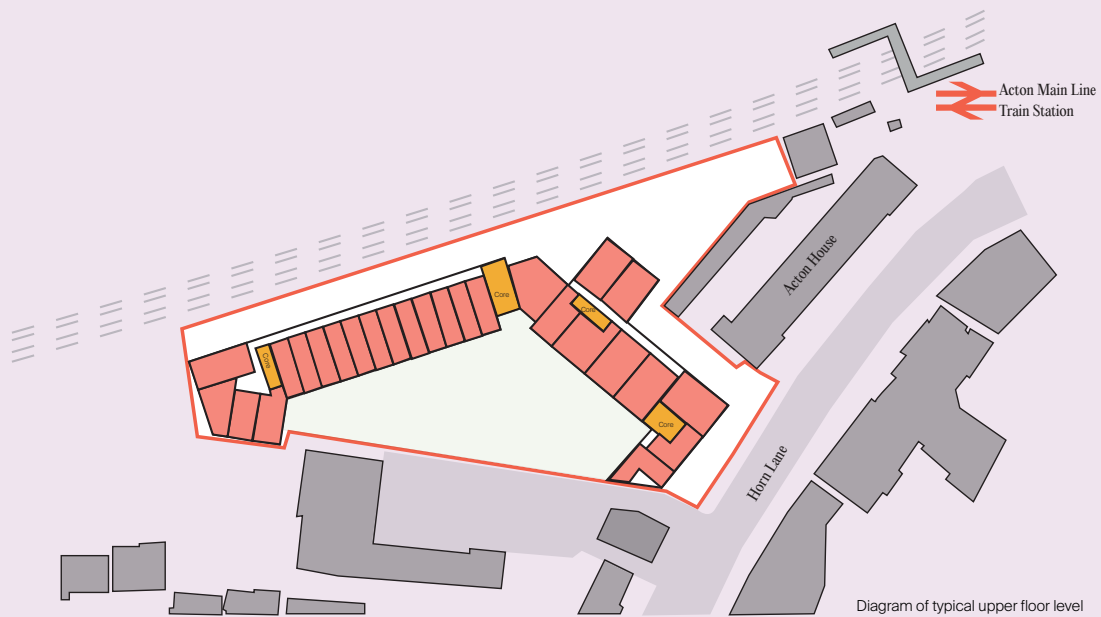


Diagram of typical upper floor level

The vast majority of apartments in the proposed scheme would be dual aspect with a limited number of south east and south west facing single aspect units to the east and west corners.

Units in the central blocks would have deck access. Decks would be positioned to provide a buffer to the access road and railway line with living spaces opening out onto the central garden, again contributing to the active and community feel of this space.

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7.07 External Amenity

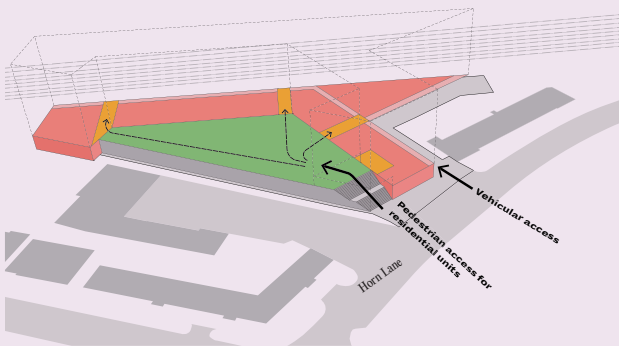


A variety of external spaces were proposed at different levels around the development, each of which required its own considered approach.

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7.08 Access Routes



Access diagram

As described, pedestrian and vehicular access routes have been separated. The access road on the east of the site will be used primarily by traffic associated with the builders' merchants. The main entry points to the commercial space will also be located along the access road. A limited number of residents will have parking spaces (blue badge only). The road will also be used for refuse collections, deliveries etc. and will provide an access route for Network Rail vehicles.



Courtyard entrance, early concept sketch

Residents will enter the site through an archway on Horn Lane. From this archway, a stairway will lead to the podium level and the main entry points for the different residential blocks. Lift access will also be provided in that area.

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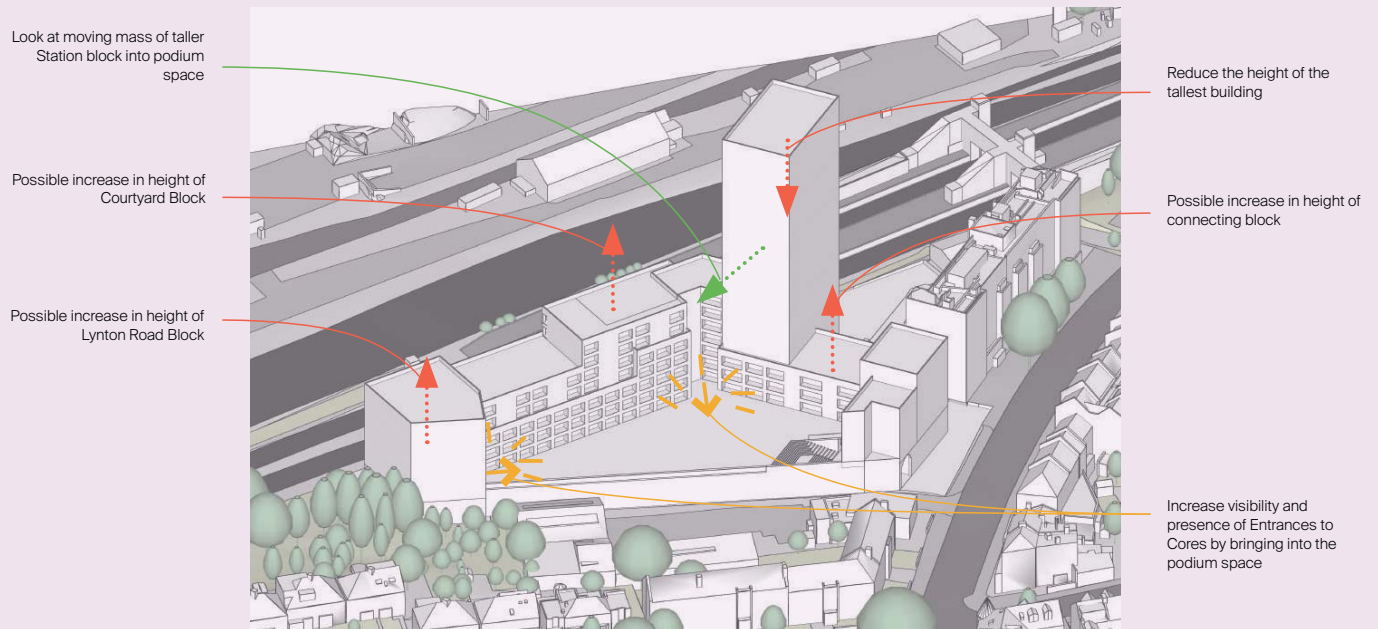
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7.09 Pre-App 1 - Comments on Overall Strategy

The general response from the Local Authority was positive, with some areas identified for further investigation. The summary of the main points of feedback include:

- The principle of a mixed use scheme with industrial below and residential above accepted
- The podium level access and stairs up was considered, and would provide an interesting access into the building.
- The entrances to the buildings from the podium garden could however benefit from being more prominent, possibly through the built forms encroaching on the public space to help to define them.
- Massing of taller station block to be reviewed. Aspiration to reduce height back to 13/14 storeys as shown in previous meeting;
- Potential adjustments to other blocks to be reviewed to offset the loss of units, with the section between Horn Lane and the taller block, as well as the Lynton Road block as potential areas to raise in response.
- Study to be undertaken into potentially different massing arrangement above podium, including potential to bring Station block forwards and more central within the podium.

7.10 Massing Comments



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Pre-App 2

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7.11 Pre-App 2 Overview

The second Pre-Application meeting focused mainly on revised massing proposals. Design development in areas such as layouts, landscape and amenity were also discussed.

Response to Pre-App 1

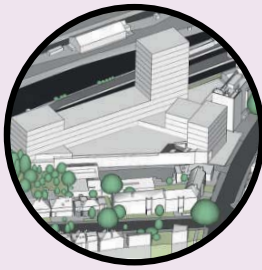
Our initial responses looked at alternate arrangements of the massing to best allocate space and mass around the podium.

The key elements of investigation were:

1. The height of the station block
2. The location and orientation of the station block
3. Highlighting entrances to cores
4. Assessing alternate areas to redistribute massing
5. Optimise the development of the site whilst responding sensitively to the context

7.12 Massing Development Studies

We developed and tested a number of different massing approaches in response to the feedback from Pre-App 1. The pros and cons of each option were presented below.



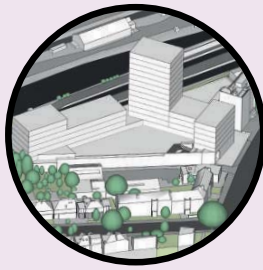
Option 01



Reduced height creates sensitive relationship to context

Lynton block not visible above roof line

Slender profile presented to station



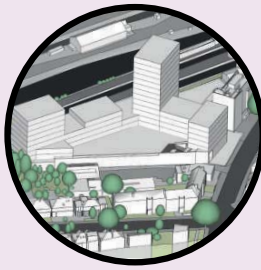
Option 02



Reduced height creates sensitive relationship to context

Lynton block not visible above roof line

Articulated skyline to northern block with clear gap in mass from internal and external views



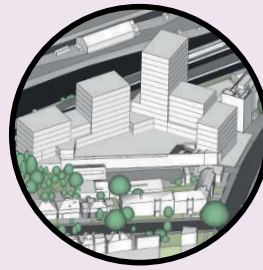
Option 03



Reduced height creates sensitive relationship to context

Articulated skyline to northern block with clear gap in mass

Station block orientation achieves sensitive addition of height to the skyline



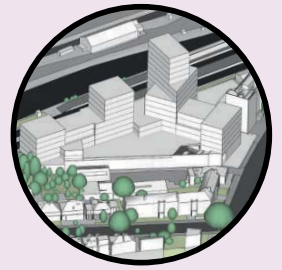
Option 04



Reduced height creates sensitive relationship to context

Articulated skyline to northern block with clear gap in mass

Station block orientation achieves sensitive addition of height to the skyline



Option 05



Reduced height creates sensitive relationship to context

Articulated skyline to northern block with clear gap in mass

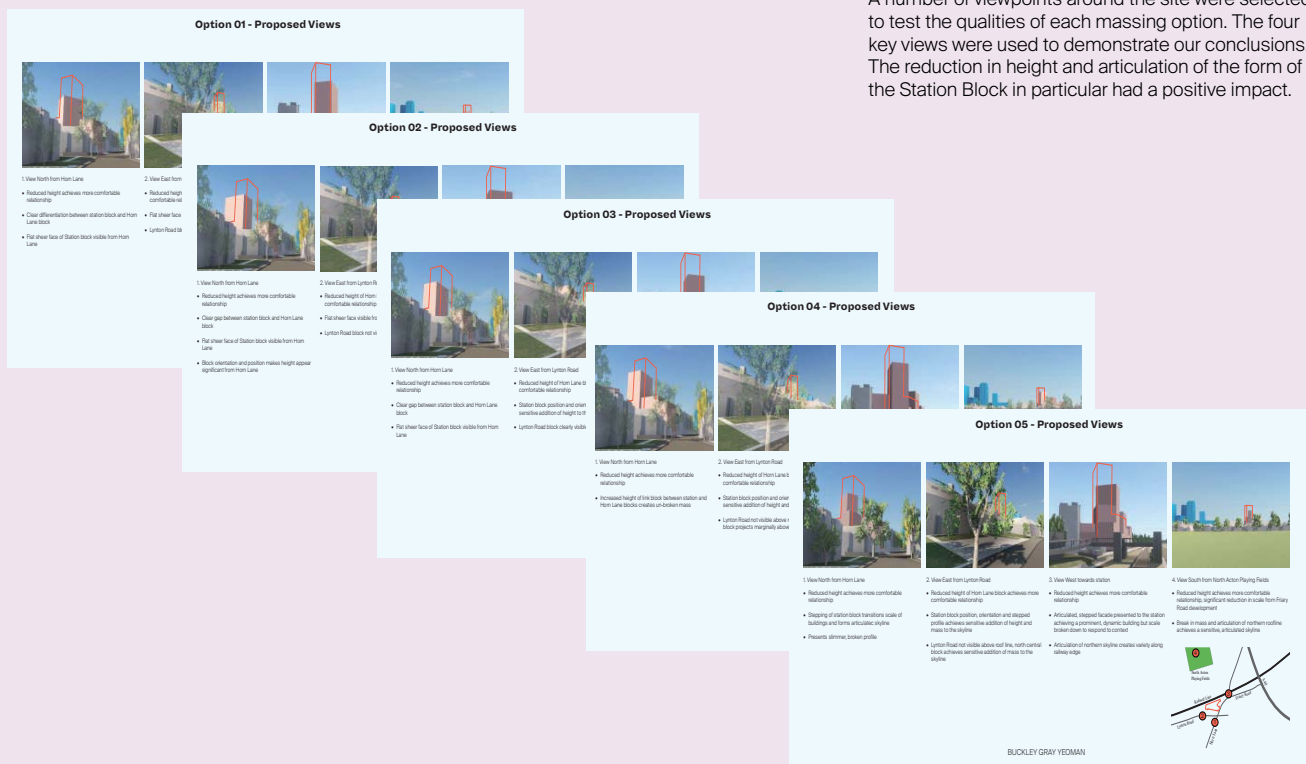
Station block orientation and tiered form achieves sensitive addition of height to the skyline and relationship to station

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7.13 Testing of Massing Development

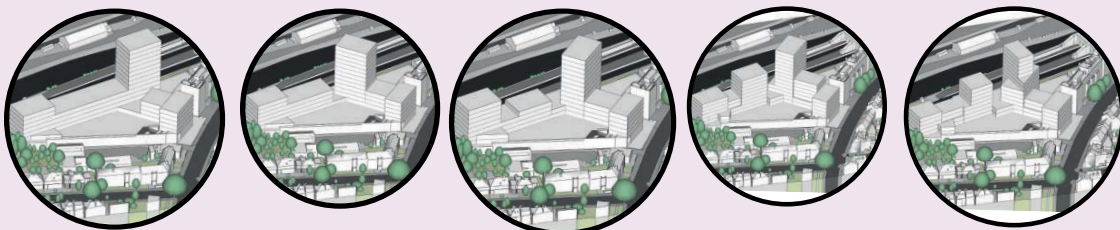
A number of viewpoints around the site were selected to test the qualities of each massing option. The four key views were used to demonstrate our conclusions. The reduction in height and articulation of the form of the Station Block in particular had a positive impact.



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7.14 Preferred Option



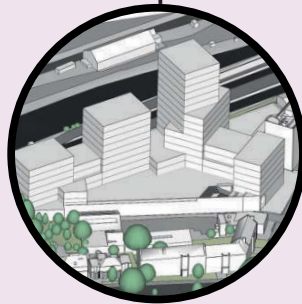
Option 01

Option 02

Option 03

Option 04

Option 05



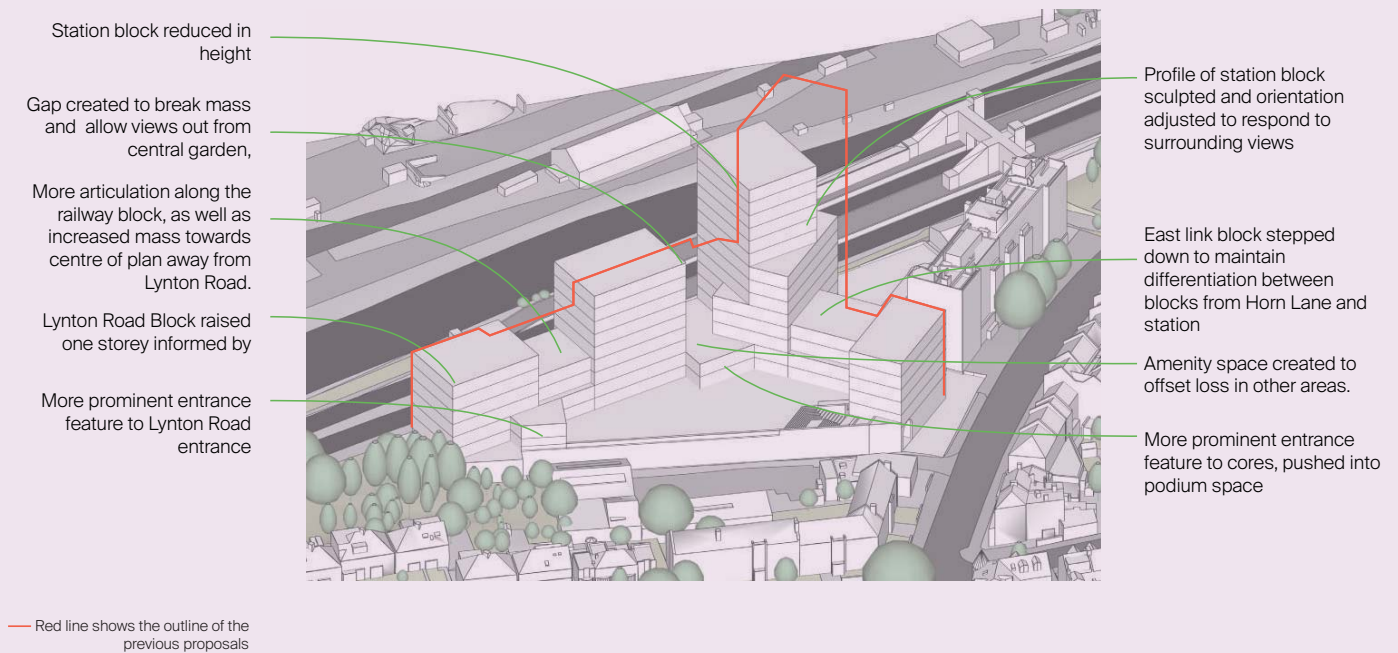
Taking on board the comments received following Pre-App 1 and using the knowledge gained from our investigations, we developed a further option that was informed by the qualities of each of the development studies. This was presented as the chosen massing proposal during Pre-App 2.

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7.15 Massing

We made several changes to our previous proposals, illustrated in the massing diagram below. The red line shows the outline of the massing presented in Pre-App 1.



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7.16 Proposed Views

The revised massing was set in four key views and tested against the proposals presented in Pre-App 1 (outlined in red).



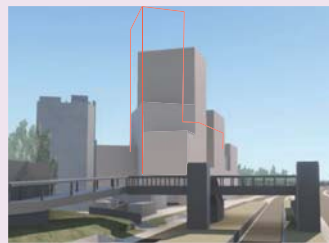
1. View North from Horn Lane

- Reduced height achieves more comfortable relationship
- Stepping of station block transitions scale of buildings and forms articulate skyline with clear distinction between station and Horn Lane blocks
- Presents slimmer, broken profile



2. View East from Lynton Road

- Reduced height of Horn Lane block achieves more comfortable relationship
- Station block position, orientation and stepped profile achieves sensitive addition of height and mass to the skyline
- Lynton Road and north central block achieve sensitive addition



3. View West towards station

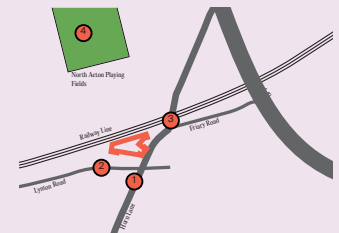
- Reduced height achieves more comfortable relationship
- Articulated, stepped facade presented to the station achieving a prominent, dynamic building but scale broken down to respond to context
- Articulation of northern skyline creates variety along railway edge



4. View South from North Acton Playing Fields

- Reduced height achieves more comfortable relationship, significant reduction in scale from Friary Road development
- Break in mass and articulation of northern roofline achieves a sensitive, articulated skyline

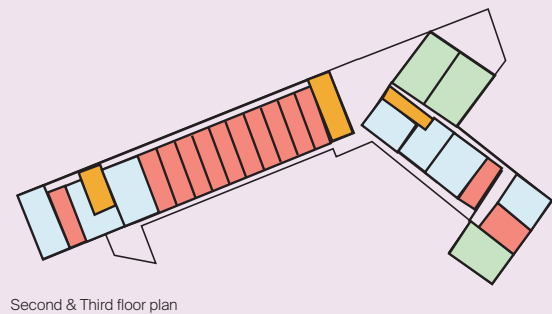
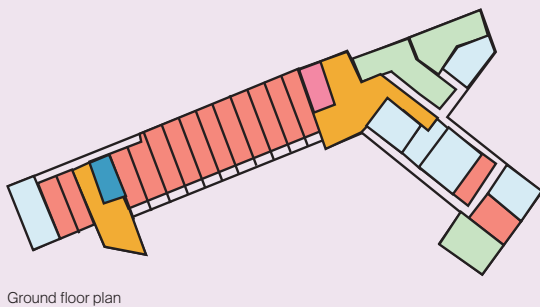
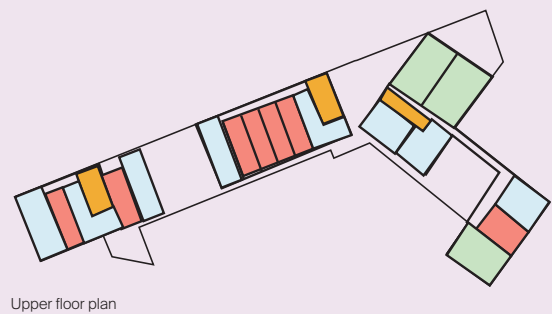
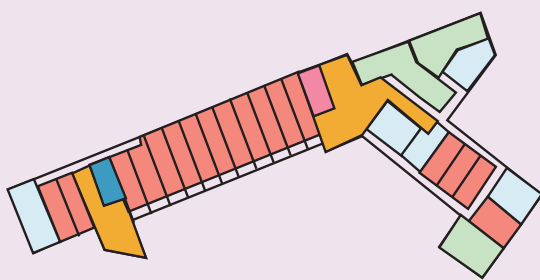
— Red line shows the outline of the previous proposals



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7.17 Developing Sketch Plans



Sketch plans were presented. Again, we sought to minimise the number of single aspect units. In order to minimise the structural requirements (and subsequent economic and environmental costs) we also tried where possible to ensure that layouts stack.

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What this could look like..

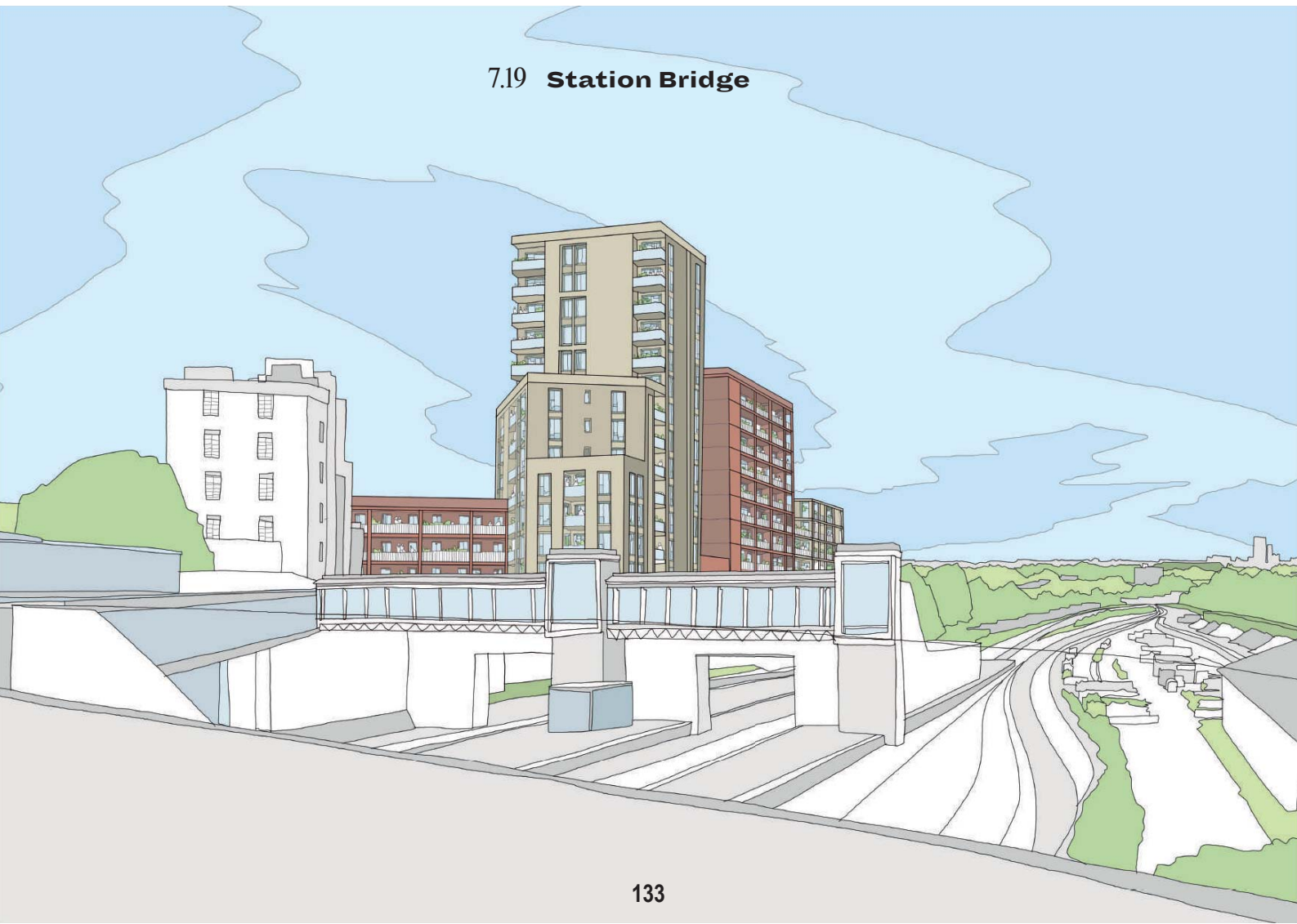
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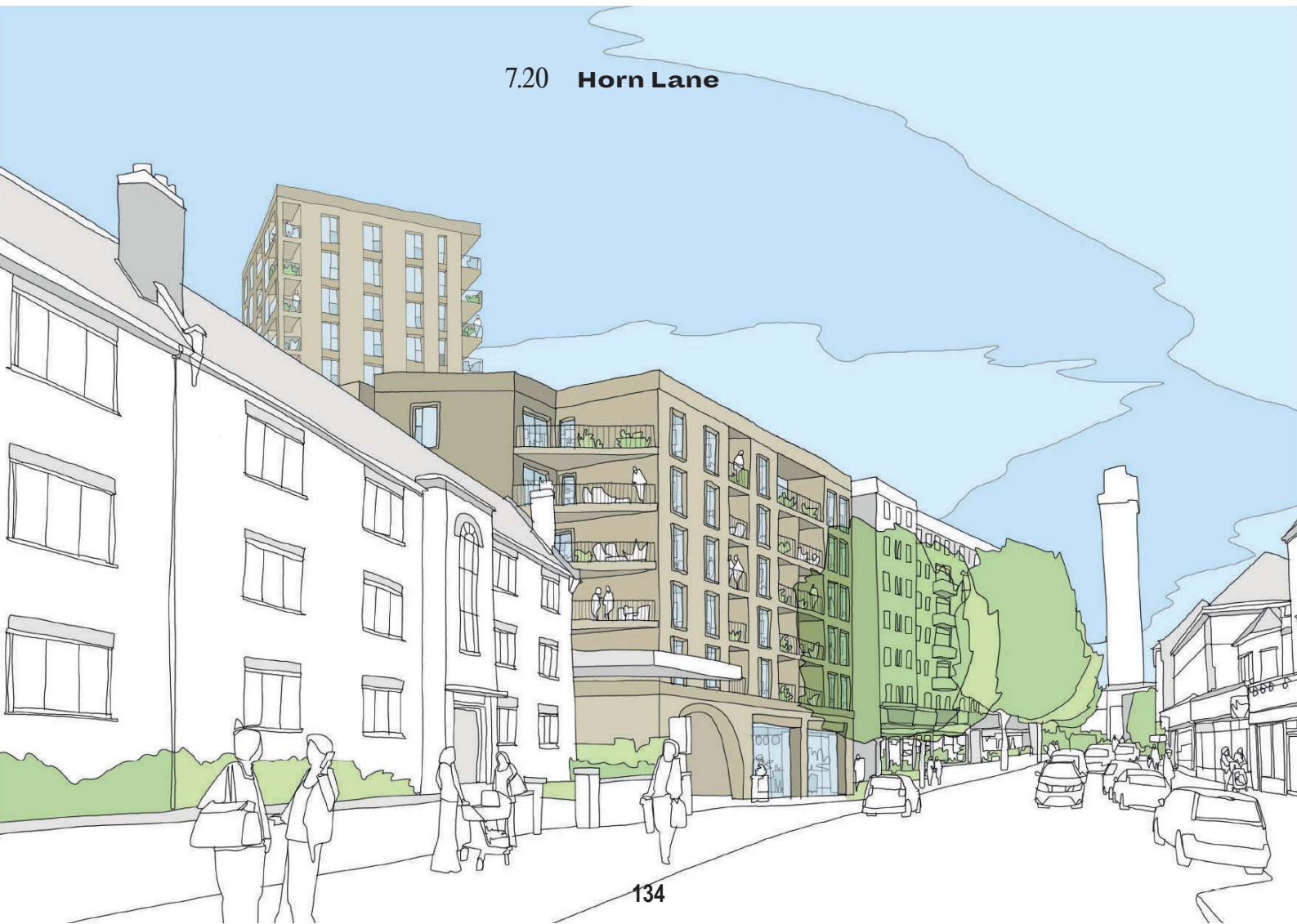
7.18 Aerial View

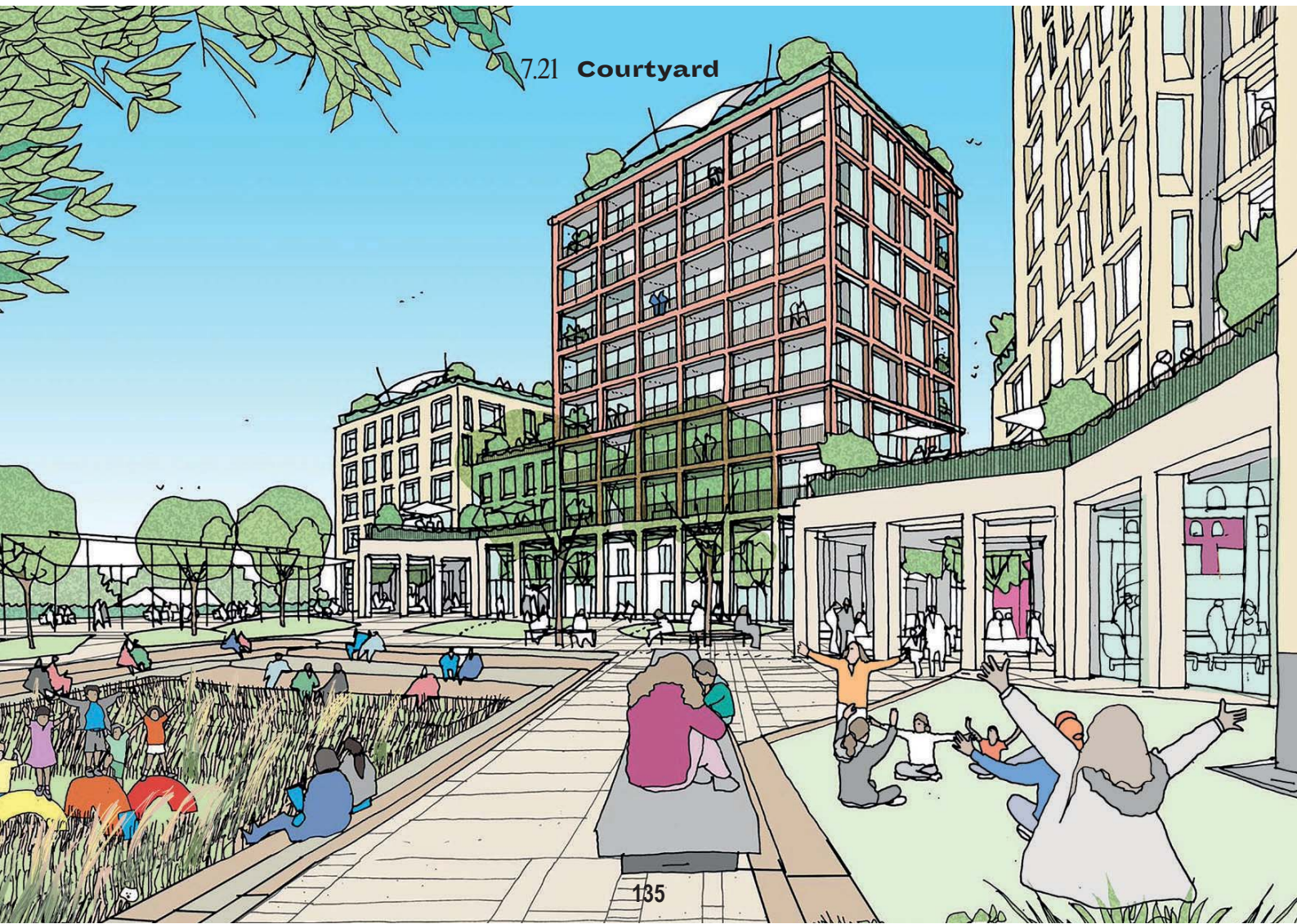


7.19 Station Bridge



7.20 Horn Lane





7.21 Courtyard

7.22 Pre-App 2 - Comments Received

The general response was again positive. The summary of the main points of feedback include:

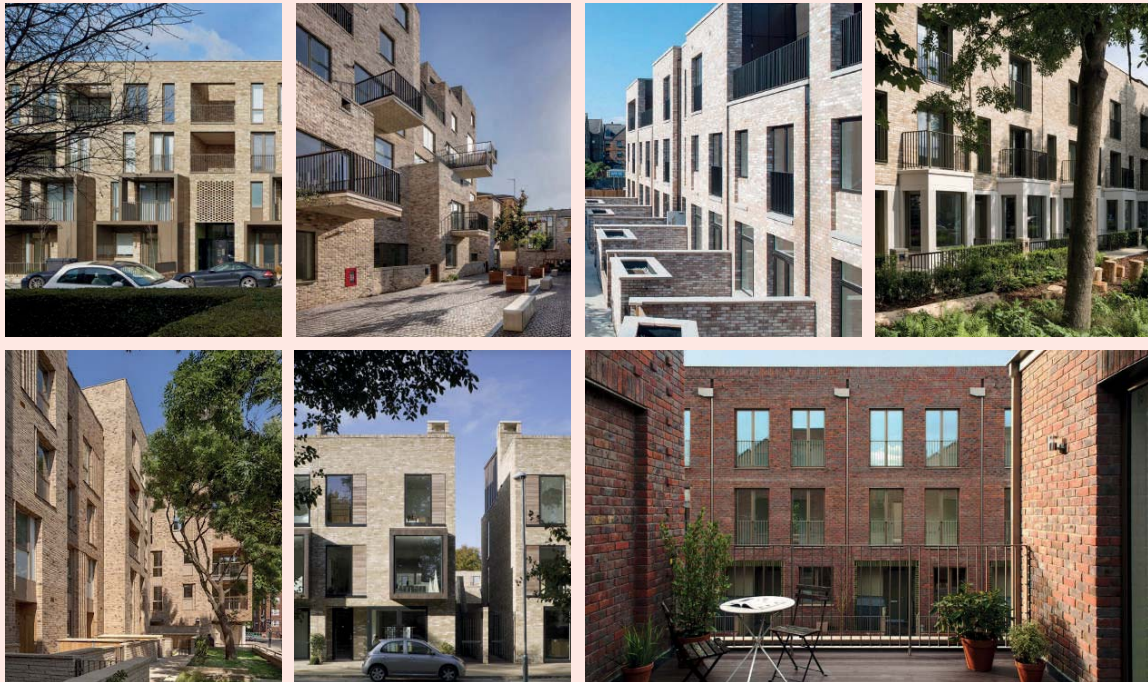
- The massing proposals and reduction in height were supported
- The increased prominence of core entrances was seen as a positive development
- With the massing proposals now deemed more comfortable on the site, the Local Authority were keen to see the architectural design progressed

8. **Elevational Treatment**

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8.01 Architectural Precedents



Precedent images

Our intention is to explore an architectural language that will be in keeping with the commercial and residential buildings in the area. For architectural precedents, we also looked at other well executed residential proposals which used brick for an external skin in keeping with the traditional building material of housing in London.

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8.02 Elevation Treatment - Central Blocks



On the principal building elements which face into the podium space we have developed a facade treatment that expresses the structural grid. The regularity of the stacked floor plans is reflected in the elevations.



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Courtyard - South Elevation



North Elevation



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Materiality

On the central block elements, columns and balconies form gridded screens which face into the courtyard. On the opposite sides, the columns and grid are continued across the access decks, again expressing the regularity of the stacked structure in these blocks.

The columns, balcony edges and decks are clad in GRC cast stone which has a dusty pink hue. Set back from the front face of the blocks, the walls to the residential units are faced in a light red brick. Aluminium framed windows have solid ventilation panels and fixed pane elements to overcome acoustic and overheating issues. Main entrance doors to flats off the decks will be made from treated timber, conforming to all regulatory requirements in terms of fire and sound performance.

A lighter coloured cast stone forms the skin of the lower two levels of balconies, columns and planters facing into the courtyard. These form an arcade link band which wraps around the south facing blocks.

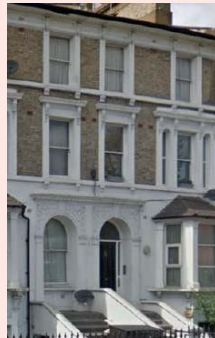


8.03 Elevation Treatment - Corner and End Blocks



A different approach has been developed for the other blocks where the floor layouts and structural design are less regular. These blocks have a more solid appearance. We looked at local precedents in the Victorian terraces along Horn Lane, in particular how mouldings frame the sash windows.

The different handling of the blocks give identity to the building elements and helps to break down the mass around the podium garden.



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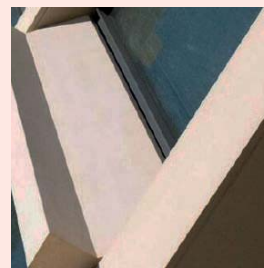
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Materiality

The blocks at the edges and the corners of the proposals are faced in a buff brick. The colour of the brick compliments the pink hues used on the central blocks. Columns are faced either in the buff brick or in a light coloured GRC, in keeping with the colour of the mortar. Balcony edges and window surrounds are also clad in GRC.

We are treating the industrial space beneath the podium and residential blocks as a plinth. Its separateness is expressed through the use of a different materials. It's brick skin will relate to the buff brick used on the blocks above, but will be darker in colour. Windows to commercial spaces fronting onto Horn Lane and the access road on the east of the site will be full height and generous. There will be fewer openings to the warehouse space further back on the site. The more private commercial spaces (offices and staff areas at mezzanine level) will have bands of openable windows located above desk height.



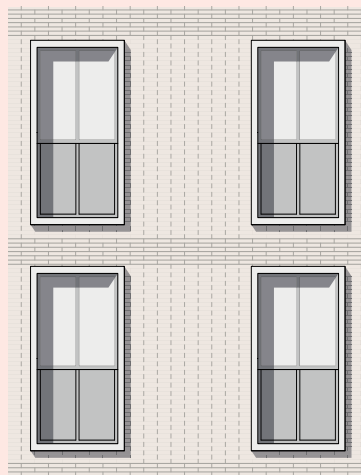
8.04 Window Details - Lynton, Station and Horn Lane Blocks

Reinforcing our intention to respect the language of local buildings, we looked at mouldings around windows to terraced houses in the area. We took this as a precedent for the design of openings in the corner and end blocks. GRC reconstituted stone cladding is the proposed material finish to the surrounds.

Another big consideration in the design of windows was the amount of glazing to habitable rooms. With the introduction of Part O of the Building regulations, we have been mindful of new targets. Aluminium windows will have solid insulated panels to account for this while still giving the appearance of generous openings, well proportioned in the building's elevations.



Design development studies considering the amendments to Part O of the Building Regs in relation to overheating and reducing glazed areas.



Window Elevation



Window Plan



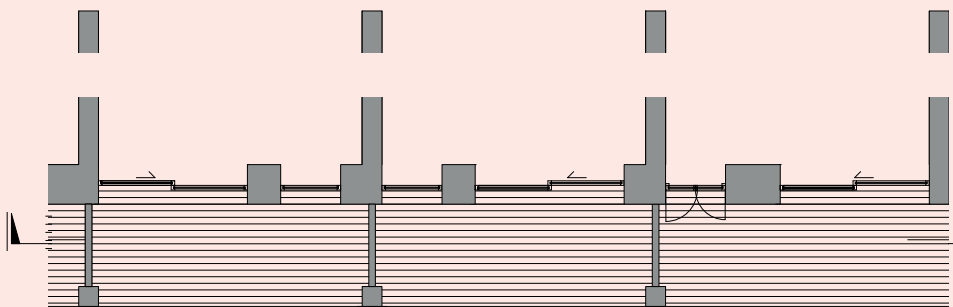
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8.05 Balcony Areas - Courtyard and Horn Lane Blocks



Balcony Elevation



Balcony Plan Detail

We took a different approach to the design of windows and doors to the decks and courtyard facing balcony spaces. Here areas of glazed fenestration are more generous, taking advantage of the shading provided by the balconies and decks above.

As the openings are more generous, we have taken a pared back design approach. We have not added surrounds to these windows, instead high quality aluminium windows and doors will be set into generous brick reveals.

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8.06 Deck Access



There are many high quality examples of successful deck access developments both historic and contemporary in the UK and abroad. The images on this page show a selection of these.

The success of these schemes results from a number of factors, for example a limited number of units being accessed from each deck to maintain a sense of pride and ownership, the use of high quality materials, lighting and the width of the deck



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8.07 Deck Access View

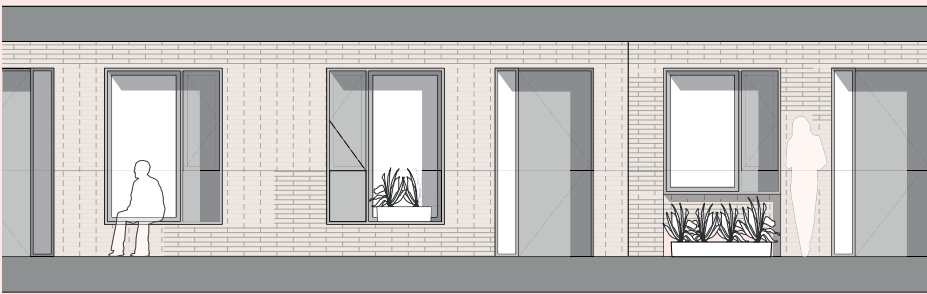


The deck access routes are generous, measuring 2m in width, with regular punctuation by brick columns. Handrails are steel fins, letting light in at lower levels and allowing for a feeling of openness.

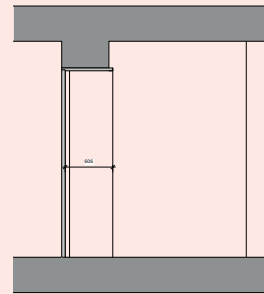
We responded to feedback which asked us to look at providing some form of private space for residents along the access decks. Our solution is to use the wall thickness to set doors and windows back so that the recesses can be used as private defensible space for seats, ledges for plants etc.

View of deck access showing private

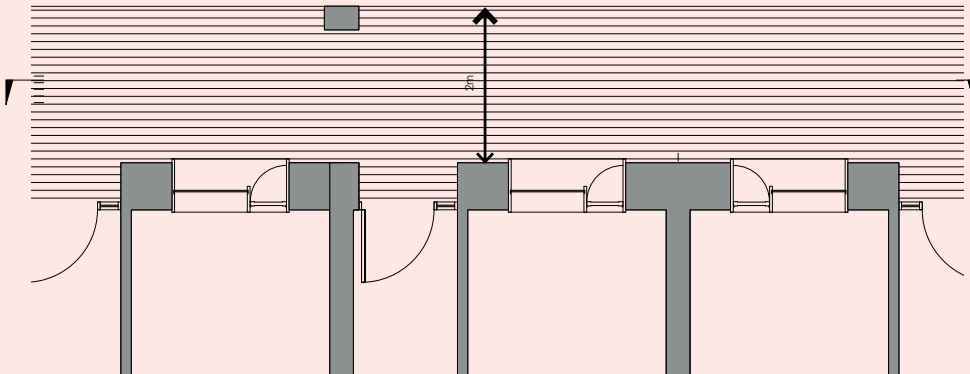
8.08 Deck Access Details



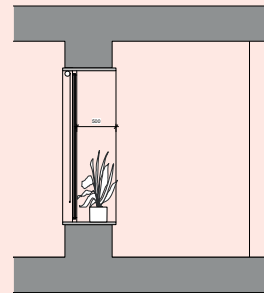
Deck Elevation Detail



Door Section Detail



Deck Plan Detail



Window Section Detail

These drawings show how walls facing north and east onto decks will be used to provide usable space for residents, affording them a sense of ownership along the shared route.

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8.09 Horn Lane - South Elevation



FINISHES KEY

- | | |
|--|---|
| 1 BALLUSTRADES
PVC Steel Profile | 6 WINDOW SURROUND
Reconstituted Stone |
| 2 BRICK
Self-Coloured Brick | 7 WINDOWS
High Quality Manufacture Framed Windows
With Steel Sillium Panels |
| 3 STONE BANDING
Reconstituted Stone | 8 COPING
Reconstituted Stone |
| 4 BRICK
Light Red Brick | |
| 5 GATE
PVC Steel | |

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8.10 North Elevation



SITE BOUNDARY Station Block Courtyard Block Lynton Road Block SITE BOUNDARY

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- FINISHES KEY**
- | | |
|---|--|
| 1 BALLUSTRADES
SP7 Stone Finish | 7 WINDOW SURROUND
Repointed Stone |
| 2 BRICK
Buff Concrete Block | 8 FRAMING
Pine Red Pine re-sanded Stone |
| 3 STONE BANDING
Repointed Stone | 9 FRAMING
Buff Re-sanded Stone |
| 4 COLUMN
GRC Re-sanded Stone Cladding to Structural Column | |
| 5 BRICK
Pine Red Buff Re-sanded | |
| 6 BRICK
Pine Concrete Block | |

Proposed Bay Elevation
1217_GE-402

8.11 East Elevation

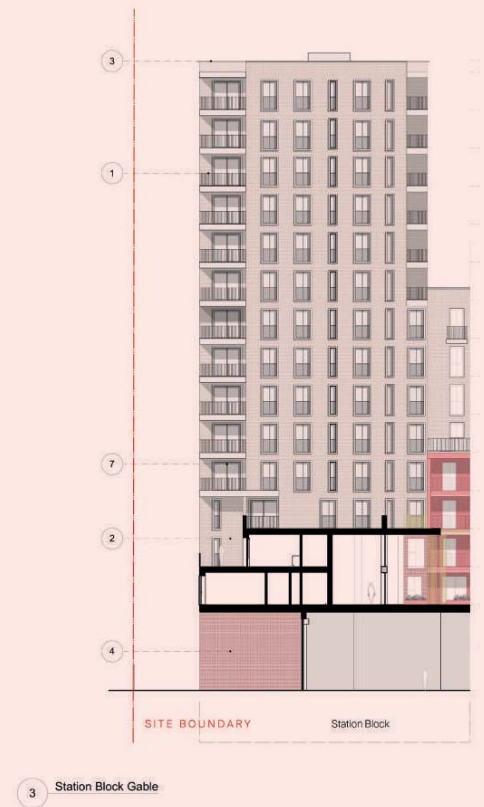


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FINISHES KEY	
1 BALUSTRADES PVC Cast Iron	6 WINDOW SURROUND Reconstituted Stone
2 BRICK Buff Coloured Brick	7 WINDOWS High Quality Aluminium Framed Windows GRC Cast Aluminium Panels
3 STONE BANDING Reconstituted Stone	8 COPING Reconstituted Stone
4 COLUMN GRC Translucent Stone Cladding to Structural Column	
5 BRICK Light Pink Multi Watermark	

8.12 West Gable Elevations

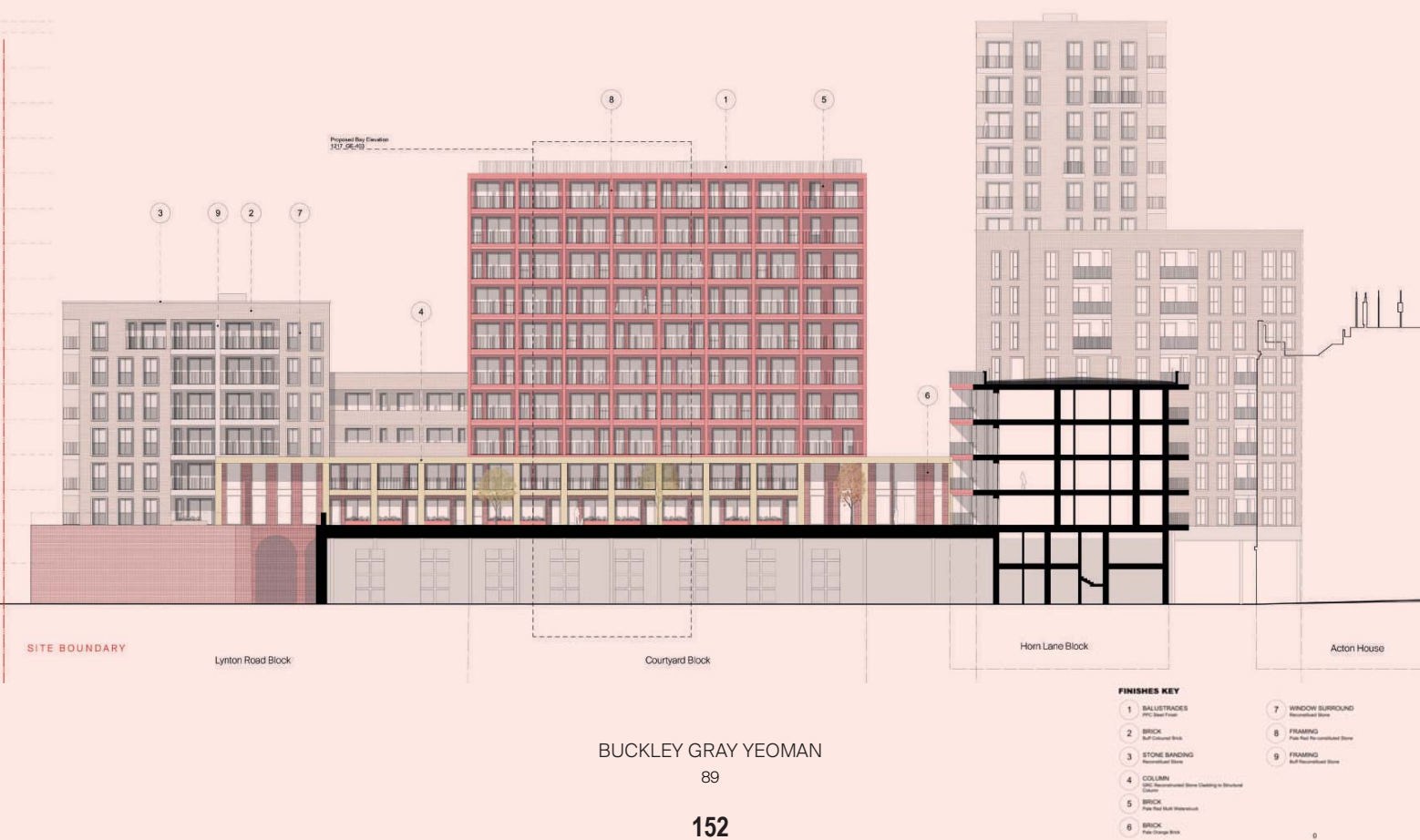


FINISHES KEY

1 BALUSTRADES PVC Steel Rope	6 WINDOW SURROUND Reconstituted Stone
2 BRICK Red Concrete Block	7 WINDOWS High Quality Acoustic Framed Windows With Acoustic Glazing
3 STONE BANDING Reconstituted Stone	8 COPING Reconstituted Stone
4 BRICK Light Red Brick	
5 GATE PVC Steel	

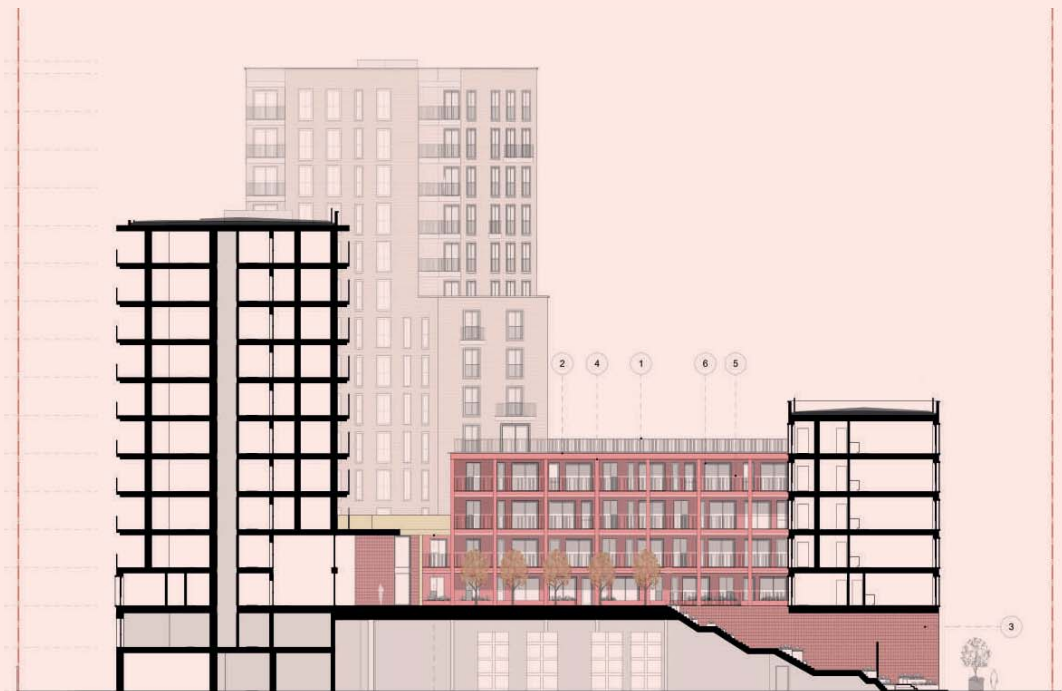
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8.13 Courtyard - South Elevation



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8.14 Courtyard - West Elevation



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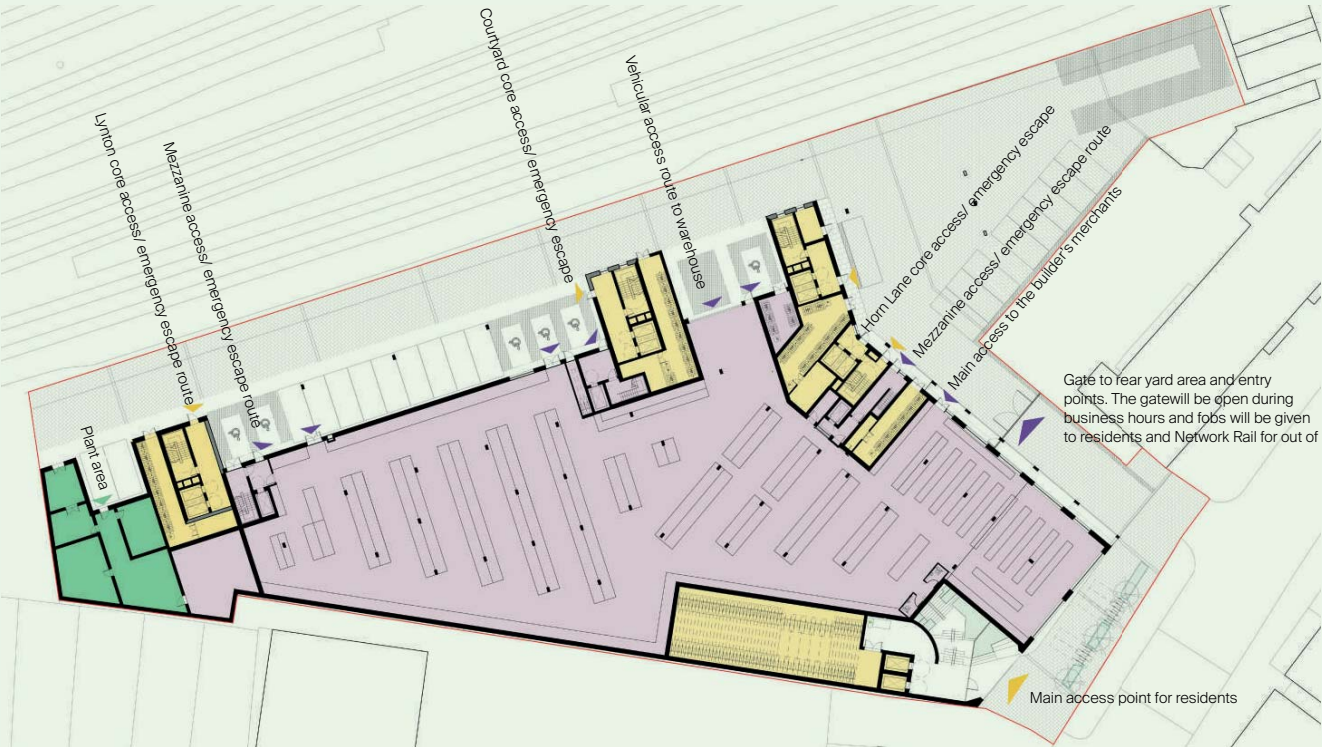
FINISHES KEY	
1	BALUSTRADES PVC Paint Finish
2	STONE BANKING Reconstituted Stone
3	FRAMING Pine Red Reconstituted Stone
4	COLUMN PVC Reconstituted Stone Cladding to Structural Column
5	BRICK Pine Red Brick Masonrywork
6	WINDOW SURROUND Reconstituted Stone
7	CONCRETE Structural Beige Stone Cladding Finish

9. **Entrances**

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9.01 Ground Floor Entry Points



The access strategy is in general to segregate users of the residential and commercial spaces. Likewise, where possible pedestrian and vehicular routes are kept separate.



- Access point for builder's merchant
- Access point for residents

9.02 Podium Level Entry Points



Residents reach the arrival space at the podium level from Horn Lane by stair or lift. Across the courtyard garden, two generous double-height lobby spaces are provided for access to the residential cores. To the west of the site, sitting under a generous canopy is the entry point to the Lynton Core where the social rent units will be located.

To the east, the Courtyard, Station and Horn Lane blocks are accessed through a generous double-height shared lobby space

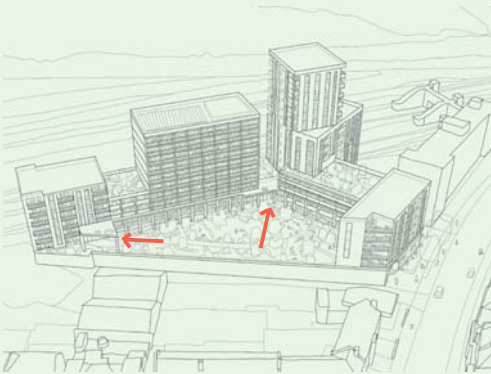
-  Access point for builder's merchant
-  Access point for residents

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9.03 Cores Entrances



The main core entrances are at podium level. Prominent canopies step out over the landscaped garden to mark these arrival spaces. To the west of the site is the Lynton Block, where the social rent units are located. To the east is the entrance to the other three blocks. Both lobbies are generous double height spaces. It is envisioned that the floor finishes and landscaping will be continued from the garden, blurring the line between internal and external space.



Lynton Core Entrance

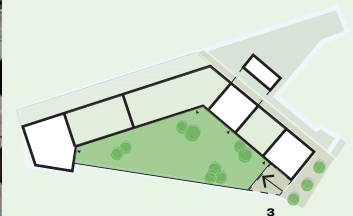


Courtyard, Station and Horn Lane Core - Shared Entrance

9.04 Entrance Courtyard



The entrance courtyard will provide safe pedestrian access to the podium level. A beautifully designed entrance will offer a warm welcome and a smooth transition from the street into the development. Views into the development are framed through the archway and enhanced by a diverse and warm palette of planting that brings a domestic feel to the residents.

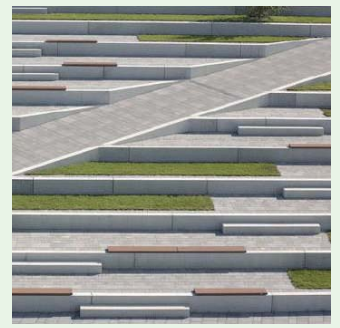
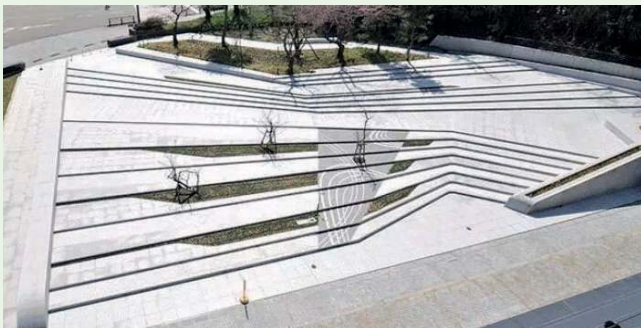


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9.05 Entrance Courtyard Precedents

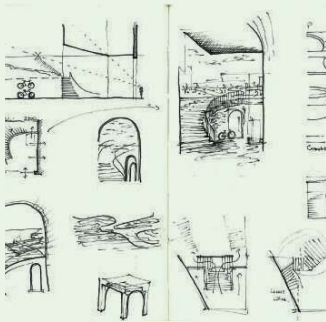


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9.06 Design Development



We worked through many different approaches and options with the design of the arch and entrance routes. Important considerations included

- A carefully design and appropriate response to the street scape, which would offer an attractive and inviting entrance to the residential amenity space and dwellings beyond.
- Where the security line would be. We did not want a hard line at the face of the building.
- Similarly we wanted the landscaping of the garden to move down along the stepped route and out to the public realm



Design development options



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9.07 Design Proposals



- The shape of the arch to the street is reflected in the curved wall close to the entrance and the curve of slab on which the Horn Lane Block sits over the steps.
- Routes and views were a critical consideration during the design process. The steps wind their way around the curved wall and the shift angle as they wind their way up to the podium level.
- Landscaping steps down along stepped terraces and spreads out onto the pavement on Horn Lane.
- The fence and gate are set back from the building line, giving residents shelter and shifting the line of private and public space.
- Just behind the entrance gate, cycle stores and two Equality Act compliant lifts are located. These lifts take residents and visitors to the podium level. Residents will have fobs which will give some of them access to the cycle parking at mezzanine level.
- All people entering the courtyard from Horn Lane arrive in the same area. This was a very important point in considering equal access for all.

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9.08 **Street View**



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9.09 **Courtyard View**



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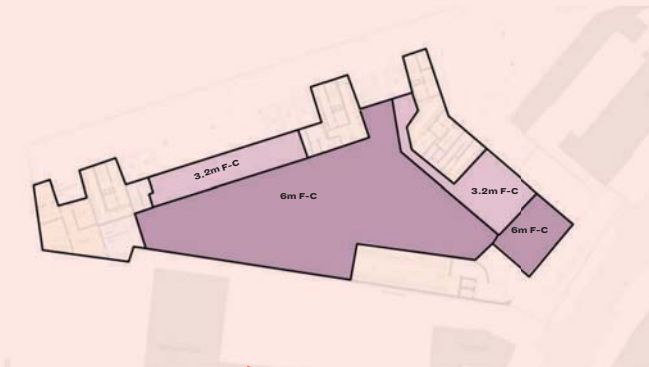
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10. **Industrial Space**

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10.01 Builder Depot Warehouse Spaces



The Design Team worked carefully with the client to deliver proposals for the industrial space and ancillary accommodation.

The warehouse, ground floor and mezzanine has been designed as a plinth on which the residential blocks sit around the podium garden. It will be faced in a darker brick than the buff skin of the Horn Lane Block which fronts onto the street.

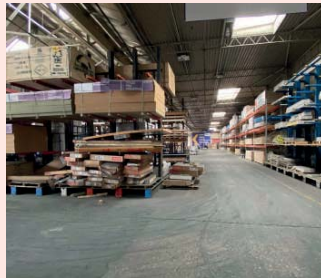
Fronting onto Horn Lane is a double height (6m floor to ceiling) showroom space. Large windows face onto the street and side elevation of the access road providing an attractive shopfront onto the street. Behind this, at ground floor and mezzanine levels, areas for small item racking and further showroom space are provided.

Further back on the site, the building presents less of a public face. Parking along the norther edge sits under the overhang of the mezzanine level. That area, over the parking, houses the more private office functions and staff accommodation.

In the main central space beneath the podium garden, a 6m floor to ceiling height has been set in accordance with the requirements for the warehouse space. Column spacing in this zone has been optimised to accommodate the activities of the warehouse



Small item racking 3.2m F-C



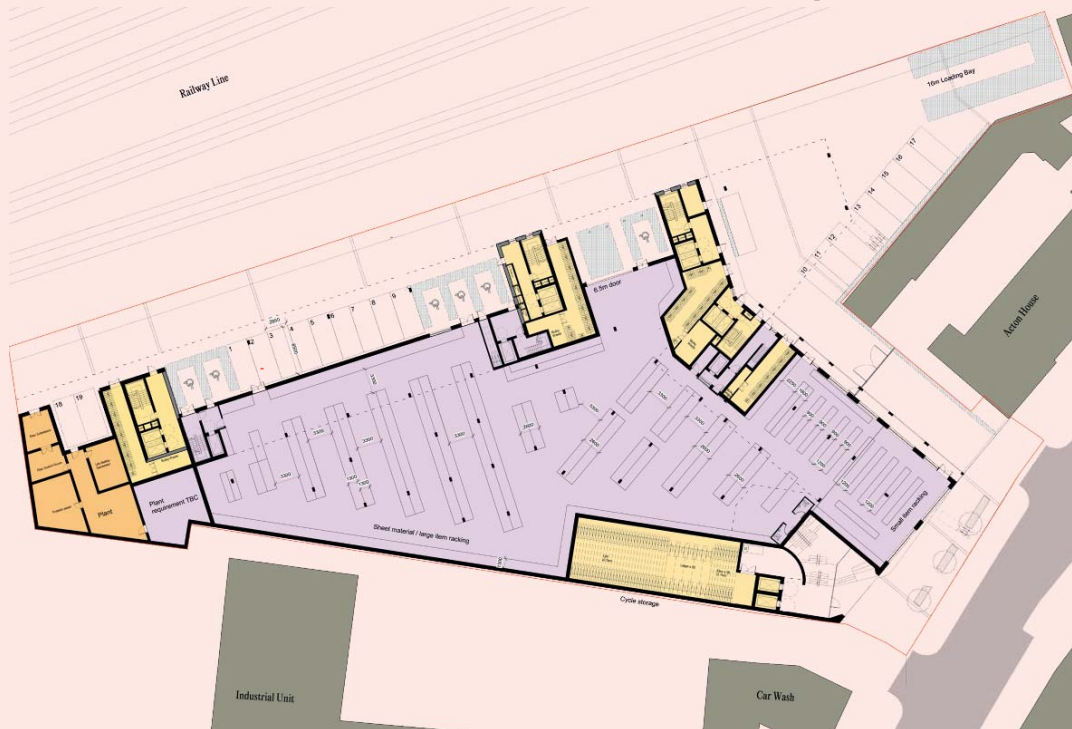
Large item racking 6m F-C

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10.02 Ground Floor Plan - Commercial Spaces

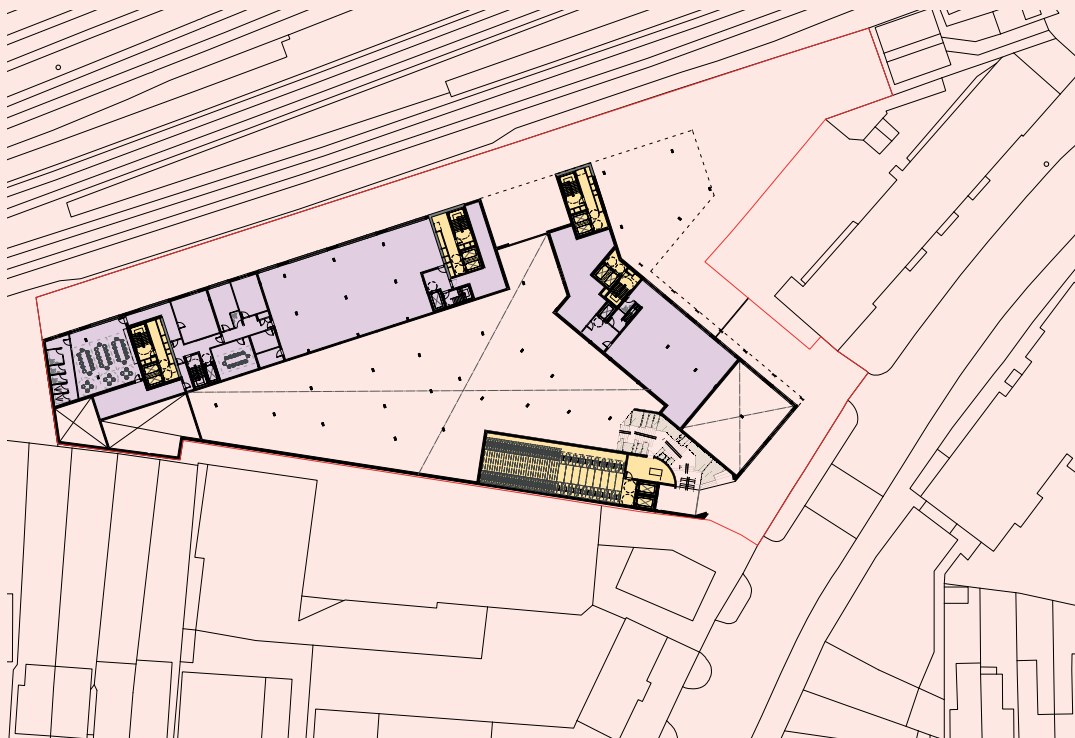


On the northern and eastern sides of the warehouse, the location of the structural columns is set by the structure of the residential blocks above. The columns in the 6m high central warehouse space are not restricted to supporting the blocks above, so they have been spaced to optimise the racking and aisle widths required for the builders' merchants.

At the north east corner of the warehouse, a 6.5m wide shutter door will be used by forklifts and other large vehicles. Aisle widths in the warehouse have been set out at 3.3m to allow for forklifts to turn.

The main entry point for customers is on the access route on the east of the site, close to the double-height shopfront space which fronts onto Horn Lane.

10.03 Mezzanine Floor Plan



In the northern wing of the mezzanine space, staff accommodation, offices and meeting rooms have been located. Other areas of this floor will be used for stock. This mezzanine space oversails customer parking bays to the north of the site, optimising industrial floorspace. It is intended to use the mezzanine space on the east of the site as showroom and for storing stock.

Structural columns in the mezzanine spaces support the loads from the residential blocks above, but partition walls dividing these areas will be adaptable, allowing for flexibility in the future use of the space.

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10.04 **Adaptable Space**

The industrial space has been designed to be adaptable for possible use by other occupants in the future.

The floor to ceiling heights would allow for various industrial and commercial uses. Subject to viability assessments, supermarkets, logistical companies and gyms could all be possible future users of the adaptable warehouse space.

The double-height shop front facing onto Horn Lane could be used for a multitude of commercial uses and might even be adapted for hospitality use as a restaurant or cafe.

Other areas around the perimeter at mezzanine and ground floor levels could be adapted for administrative use associated with the warehouse or for use by a separate company.

Structural elements in the warehouse have been located to suit a layout with isle widths (between shelving) of 3.3m to allow for forklift turning circles.

The design allows for all necessary acoustic measures to ensure that residents are not disturbed by the activities of the light industrial space.

Movement around the site, pedestrian/ cycle and vehicular, residential and commercial, has been segregated so that the residents would also not be disturbed by a change of occupancy in the warehouse space.

- Main warehouse floor to ceiling height (F-C) : 6m
- Ground Floor F-C height under the mezzanine is 3.2m
- The mezzanine floor to ceiling height is 3m.

A 6.5m wide entry point to the warehouse has been created to allow for access for forklifts and large vehicles.

11. **Residential Layouts**

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11.01 Residential Floor Plan 1 (Podium Level)



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11.02 Residential Floor Plan 2



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11.03 Residential Floor Plan 3



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11.04 Residential Floor Plan 4



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11.05 Residential Floor Plan 5



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11.06 Residential Floor Plan 6



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11.07 Residential Floor Plan 7 & 8



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11.08 Residential Floor Plan 9 & 10

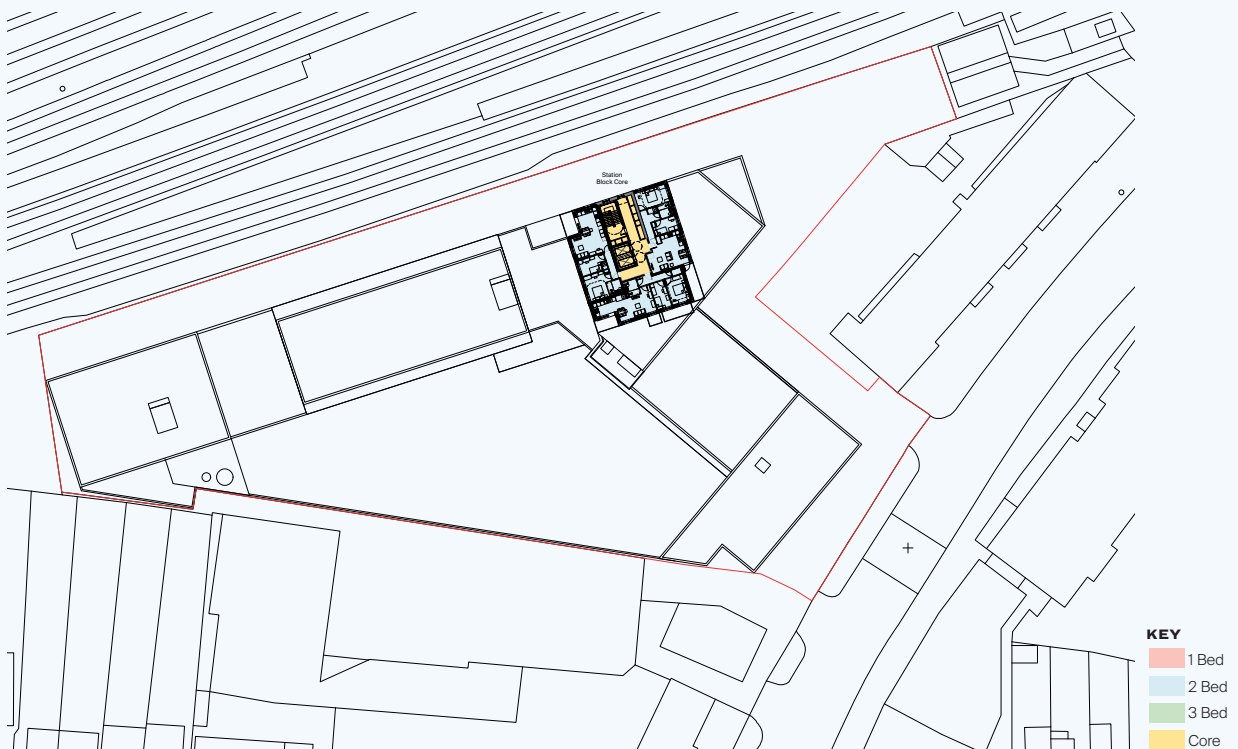


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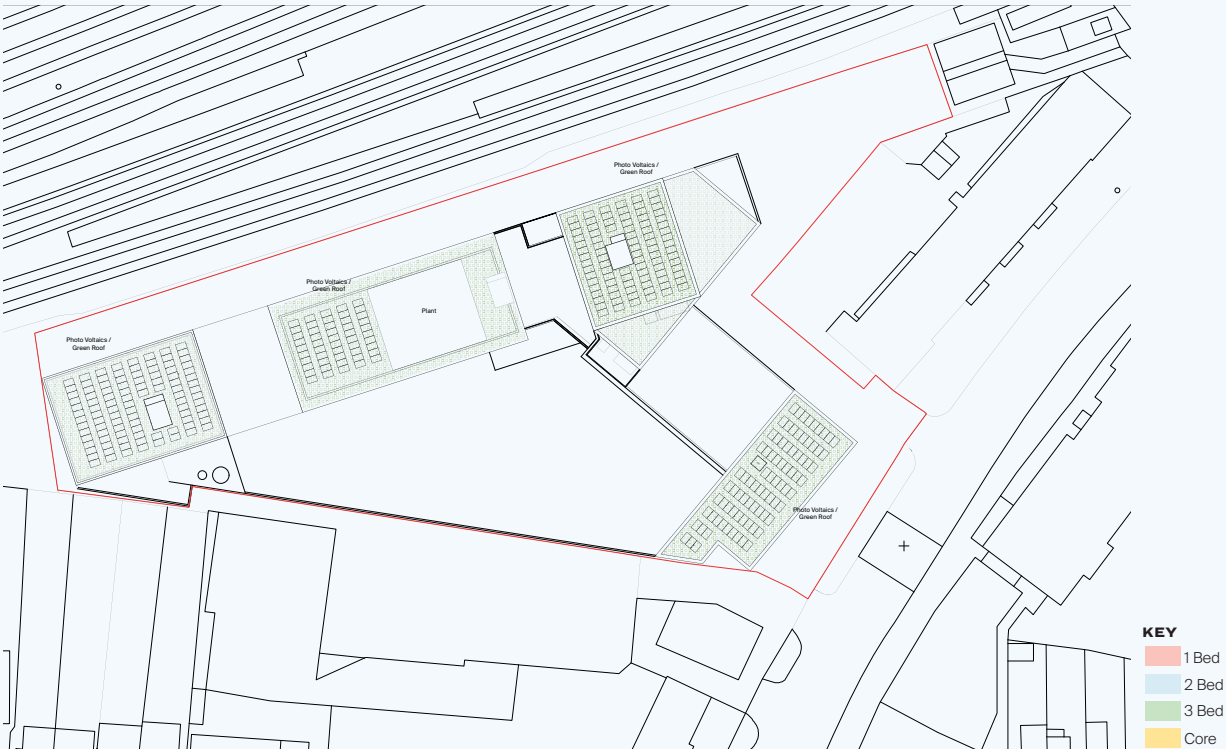
11.09 Residential Floor Plan 11 - 14



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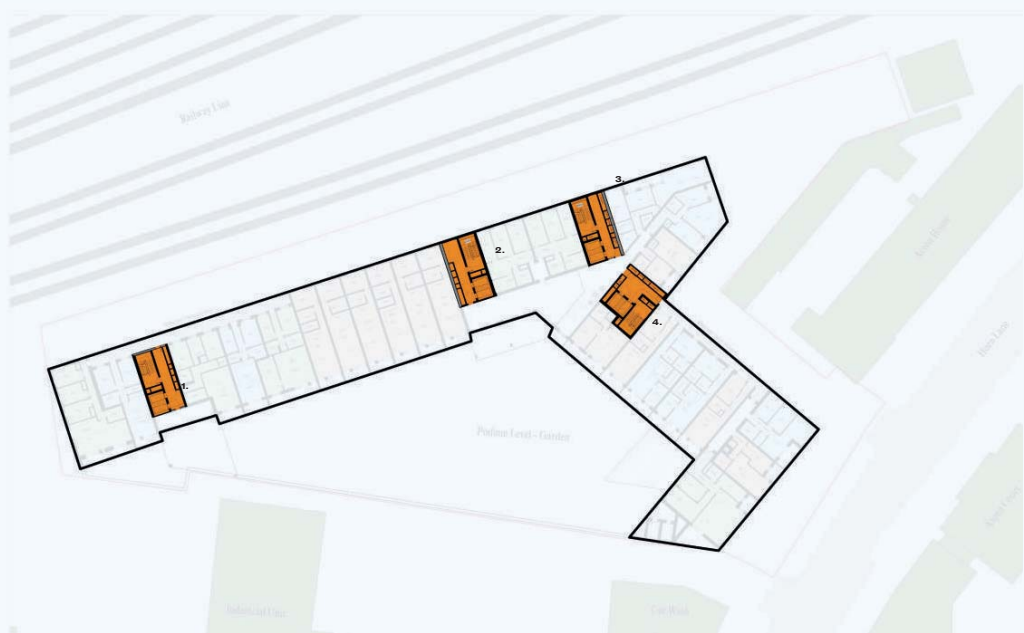
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11.10 **Roof Plan**



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11.11 Cores



Two Equality Act compliant lifts serve each of the four residential blocks. From street level, residents may access the podium garden via a stairway or two lifts located at the main entry point on Horn Lane.

Due to the building's height (48.8m to the top floor level), a fire fighting lift and an evacuation lift are provided. Staircores have been designed in accordance with approved documents B, K and M and suitable refuge spaces are provided on each floor. Smoke shafts have also been located in compliance with the relevant standards.

Cores

1. Lynton Core

- Serves 7 Levels, G-6
- 4 - 8 units per floor
- 35 units in total

2. Courtyard Core

- Serves 11 Levels, G-10
- 4 - 7 units per floor
- 62 units in total

3. Station Core

- Serves 15 Levels, G-14
- 3-5 units per floor
- 53 units in total

4. Horn Lane Core

- Serves 6 Levels, G-5
- 4 - 7 units per floor
- 35 units in total

5. Entrance Core

- Serves 3 Levels, G-1
- Takes residents from Ground to Podium Level 1 and also serves the cycle store at mezzanines level

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12. **Unit Layouts**

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12.01 Units

In the following section the unit layout drawings will illustrate how we have met the requirements of the relevant standards for dwellings. These include

- The London Housing SPG
- Approved Document M Volume 1: Dwellings. In line with London Plan and Local Authority standards 90% of dwellings meet AD M category M4(2) and 10% to meet category M4(3), wheelchair adaptable/accessible.

A mix of 1, 2 and 3 bed units are provided.

- The vast majority of dwellings exceed the minimum area standards set out in the London Housing SPG.
- The vast majority are dual aspect, with only 19 out of 185 dwellings being single aspect. The location of these 19 units is discussed in the following section.
- The vast majority have private amenity space with a southern and western aspect, looking out over the courtyard garden.
- Residents can also enjoy the shared garden and roof terrace spaces. 3 roof terraces may be accessed by residents in the Horn Lane, Courtyard and Lynton Blocks.
- Washing machines are located away from kitchens in dedicated utility cupboards.
- Due to the acoustic conditions (from the trainline and the builders' merchants), mechanical cooling and ventilation will be used to provide indoor comfort.
- Windows are operable to provide purge ventilation

Unit Mix

- 85 no. 1 Bed units have been provided (35% of all Habitable Rooms)
- 80 no. 2 Bed units have been provided (49% of all Habitable Rooms)
- 20 no. 3 Bed units have been provided (16% of all Habitable Rooms)

Tenure

- 35% of all Habitable rooms will be affordable tenure. This equates to 35 social rent and 29 intermediate units, comprised of a mix of 1, 2 and 3 bedroom units. Social rent dwellings are located in the Lynton Core. Further information on unit mix and tenure is provided in the Accommodation Schedule appendix.

12.02 Accommodation Mix and Tenure

Unit Type	Affordable Units	Social Rent units	Intermediate units	Overall % of Affordable Habitable Rooms	Private Units	Total
1 Bed	25	10	15	27%	61	86
2 Bed	28	14	14	48%	51	79
3 Bed	11	11	0	25%	9	20
TOTAL %	64 35% of All Habitable Rooms	35 60% of Affordable Habitable Rooms	29 40% of Affordable Habitable Rooms	100 100% of Affordable Habitable Rooms	121 65 % of All Habitable Rooms	185 100 % of All Units

Unit mix is based on habitable room numbers



Note
• Refer to Appendix 1 for a more detailed Schedule of Accommodate

12.03 1 Bedroom Dwellings



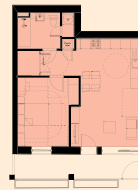
1 Flat Type 1
2 Bed - 2 Person
59sqm
Storage: 4.5sqm
Amenity space: 6sqm



2 Flat Type 2
1 Bed - 2 Person
59sqm
Storage: 4sqm
Amenity space: 10sqm



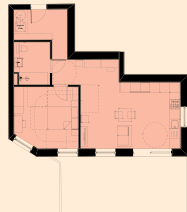
3 Flat Type 3
1 Bed - 2 Person
54sqm
Storage: 2sqm
Amenity space: 5sqm



4 Flat Type 4
1 Bed - 2 Person
54sqm
Storage: 3sqm
Amenity space: 12sqm
M4(3) Unit



5 Flat Type 5
1 Bed - 2 Person
51sqm
Storage: 1.5sqm
Amenity space: 6sqm



6 Flat Type 6
1 Bed - 2 Person
59sqm
Storage: 2sqm
Amenity space: 26sqm
M4(3) Unit



7 Flat Type 7
1 Bed - 2 Person
50sqm
Storage: 2sqm
Amenity space: 5sqm

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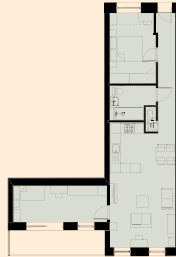
12.04 2 Bedroom Dwellings



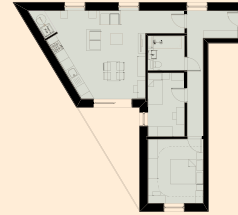
1 Flat Type 8
2 Bed - 4 Person
70sqm
Storage: 2sqm
Amenity space: 7sqm



2 Flat Type 9
2 Bed - 4 Person
70sqm
Storage: 4.6sqm
Amenity space: 7sqm



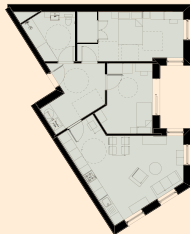
3 Flat Type 10
2 Bed - 3 Person
70sqm
Storage: 2sqm
Amenity space: 8.5sqm



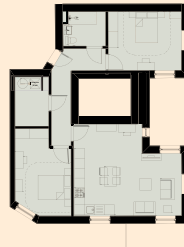
4 Flat Type 11
2 Bed - 3 Person
73sqm
Storage: 2sqm
Amenity space: 12sqm



5 Flat Type 12
2 Bed - 3 Person
67sqm
Storage: 3.4sqm
Amenity space: 6sqm



6 Flat Type 13
2 Bed - 3 Person
82sqm
Storage: 3.1sqm
Amenity space: 7sqm
M43 Unit



7 Flat Type 14
2 Bed - 4 Person
88sqm
Storage: 5.5sqm
Amenity space: 15sqm



8 Flat Type 15
2 Bed - 3 Person
65sqm
Storage: 2sqm
Amenity space: 9sqm

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185



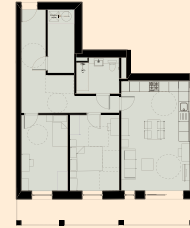
1 Flat Type 16
2 Bed - 3 Person
65sqm
Storage: 2sqm
Amenity space: 7sqm



2 Flat Type 17
2 Bed - 3 Person
73sqm
Storage: 2.5sqm
Amenity space: 15.5sqm
M43 Unit



3 Flat Type 18
2 Bed - 3 Person
69sqm
Storage: 2.5sqm
Amenity space: 8sqm



4 Flat Type 19
2 Bed - 3 Person
87sqm
Storage: 2.5sqm
Amenity space: 15.5sqm
M4(3) Unit



5 Flat Type 20
2 Bed - 3 Person
65sqm
Storage: 2sqm
Amenity space: 7sqm



6 Flat Type 21
2 Bed - 3 Person
66sqm
Storage: 2sqm
Amenity space: 6sqm



7 Flat Type 22
2 Bed - 3 Person
63sqm
Storage: 2sqm
Amenity space: 15.5sqm



8 Flat Type 23
2 Bed - 3 Person
79sqm
Storage: 4.5sqm
Amenity space: 12sqm

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1 Flat Type 24
2 Bed - 3 Person
71sqm
Storage: 2sqm
Amenity space: 7sqm



2 Flat Type 25
2 Bed - 4 Person
73sqm
Storage: 2.5sqm
Amenity space: 7sqm



3 Flat Type 26
2 Bed - 4 Person
88sqm
Storage: 3sqm
Amenity space: 7sqm



4 Flat Type 27
2 Bed - 4 Person
72sqm
Storage: 3sqm
Amenity space: 7.5sqm



5 Flat Type 28
2 Bed - 3 Person
71sqm
Storage: 10sqm
Amenity space: 9sqm



6 Flat Type 29
2 Bed - 3 Person
63sqm
Storage: 3sqm
Amenity space: 8.5sqm

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12.05 3 Bedroom Dwellings



1 Flat Type 30
3 Bed - 6 Person
110sqm
Storage: 4.5sqm
Amenity space: 9sqm



2 Flat Type 31
3 Bed - 5 Person
115sqm
Storage: 4sqm
Amenity space: 16sqm



3 Flat Type 32
3 Bed - 5 Person
99sqm
Storage: 4sqm
Amenity space: 22sqm



4 Flat Type 33
3 Bed - 5 Person
90sqm
Storage: 5.5sqm
Amenity space: 13.5sqm



5 Flat Type 34
3 Bed - 5 Person
87sqm
Storage: 3sqm
Amenity space: 8sqm



6 Flat Type 35
3 Bed - 6 Person
102sqm
Storage: 5.5sqm
Amenity space: 9sqm



7 Flat Type 36
1 Bed - 5 Person
89sqm
Storage: 5sqm
Amenity space: 13sqm



8 Flat Type 37
3 Bed - 5 Person
112sqm
Storage: 4sqm
Amenity space: 8sqm

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Level 2



Level 1

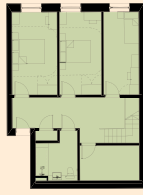
1

Flat Type 38

3 Bed - 5 Person Duplex
140sqm
Storage: 20sqm
Amenity space: 12sqm



Level 2



Level 1

2

Flat Type 39

3 Bed - 5 Person Duplex
137sqm
Storage: 20sqm
Amenity space: 14.5sqm

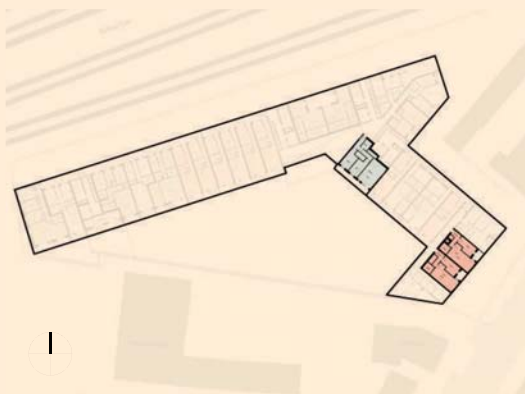
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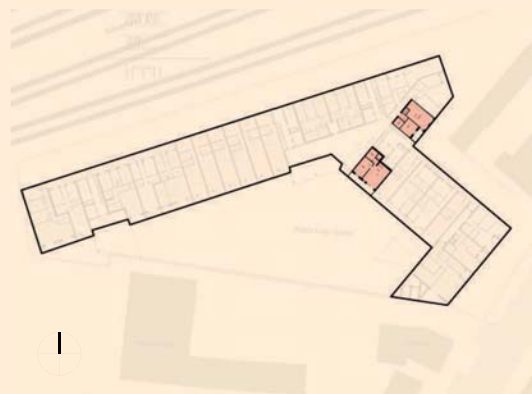
189

12.06 Single Aspect Units

From a total of 185 units, 19 (10%) will be single aspect. None will have a northern aspect. These plans show the location of the units and more detail on their design and layout is given in the Unit Types section of this report.



Residential Levels 1 - 5



Residential Level 1 (Podium Level)

13. **Accessibility**

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13.01 Inclusive Design

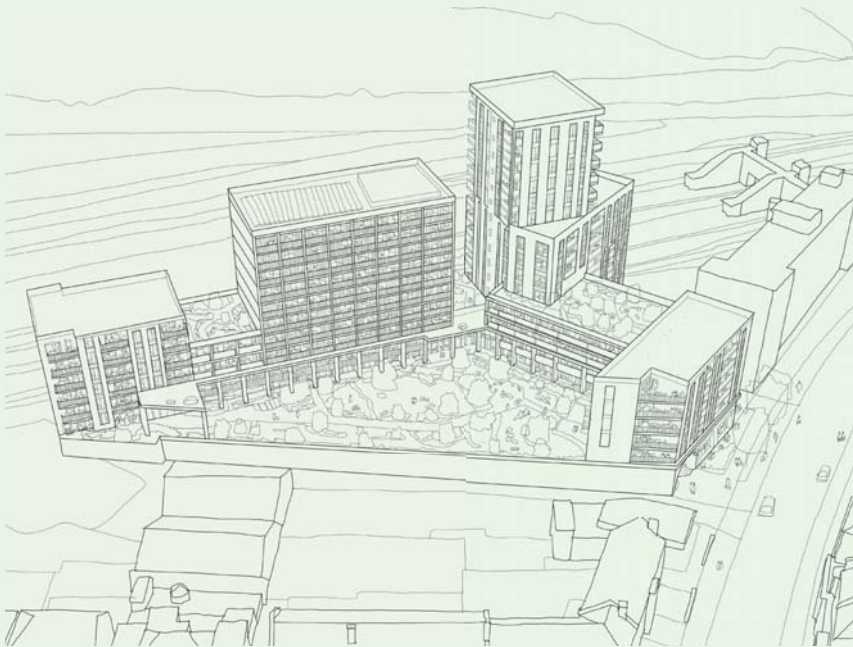
Inclusive Design Summary

The following policies, legislation and guidance have been followed in the design of the development:

- The London Plan 2021
- Building Regulations, Approved Document M Access to and the use of buildings (2015) and Approved Document K Protection from falling, collision and impact (2013)
- British Standard BS 8300:2018 Design of an accessible and inclusive built environment
- Requirements and implications of the Equality Act 2010
- Ealing Housing Design Guidance

Accessible Provisions

- Primary entrance to the residential blocks is from the podium garden. The prominent entrance lobby to the west of the garden takes residents to the Lynton Core. The other large entry point, to the east is a shared lobby space for the other three blocks.
- Shelters are provided in the podium garden.
- Two Equality Act compliant lifts serve each of the four residential blocks. From street level, residents may access the podium garden via a stairway or two lifts located at the main entry point on Horn Lane.
- Roof terrace amenity space will be accessible by all
- There is secondary access for deliveries etc. through the lowest floor of each circulation core which is at ground level. Primary escape routes are also through the ground floor.
- Routes to and across the site are level. It is proposed that there will be adequate lighting and evenly laid surfaces to provide easy access into and across the site.
- The builder's merchants is accessed from street level. DDA compliant lifts serve both stair cores in the industrial space, taking staff and customers to the clerical and commercial areas at mezzanine level.
- All communal entrances are protected by cover through the archway on Horn Lane and the canopies and overhangs elsewhere. All will be well lit.
- There is level access to all entrances.



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13.02 Wheelchair User Dwellings



Compliance

Dwellings are designed to meet the requirements of the Building Regulations as set out in Approved Document M Volume 1: Dwellings. In line with London Plan and Local Authority standards 90% of dwellings meet AD M category M4(2) and 10% to meet category M4(3), wheelchair adaptable/ accessible.

From a total of 185 units, 19 M4(3) compliant dwellings are provided. These are positioned in various locations and levels across the residential blocks. They are comprised of a mix of one, two and three bedroom units.

The location of these units is shown on these typical plans and more detail on their design and layout is provided in the Unit Types section of this report

KEY

- 1 Bed
- 2 Bed
- 3 Bed

13.03 Blue Badge Parking



Six Blue Badge parking spaces will be provided for residents. They will be located close to the ground floor core entrances, under the cover of the building overhang above.

Customer parking for the builder's merchants is also located in this area and in a bank of spaces to the east of the site. Resident parking will be clearly identified and the site will be managed so that these spaces are used by their owners only.

The area will be well lit and security cameras will be installed.

It is proposed that each Blue Badge parking space will have an electric vehicle charge point (EVCP).

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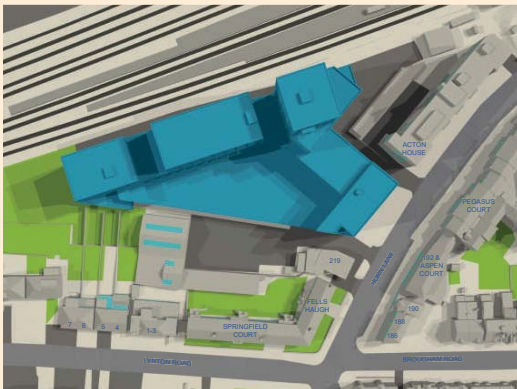
131

14. **Daylight and Sunlight**

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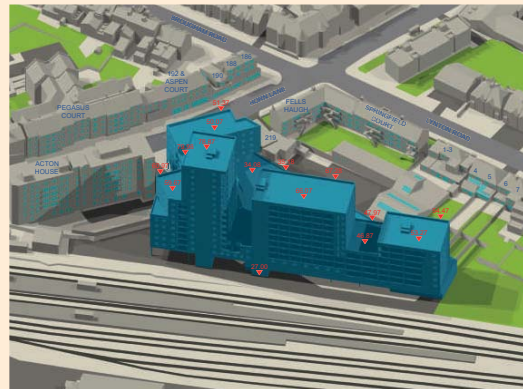
14.01 Daylight and Sunlight Modelling



Specialist daylight, sunlight and overshadowing modelling and analysis has been undertaken with the results being compared to the parameters detailed within BRE Guide 209 - 'Site Layout Planning for Daylight and Sunlight: a Guide to Good Practice (8 July 2022 Edition)', published by the Building Research Establishment (the BRE Guide).

Using tests laid down in the BRE Guide, the report clarifies that neighbouring rooms and spaces will, in the proposed context, benefit from levels of daylight, sunlight and sun on ground amenity that would be expected in an urban area, such as this. This is a considerable achievement given the under-developed nature of the existing baseline condition.

The report also clarifies that the Proposed Development will benefit from fully supportable internal daylight, sunlight and sun on ground amenity.



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15. **Servicing Strategies**

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15.01 Site Transport Strategy

It is proposed that the site will deliver a sustainable residential development in transport terms that encourages walking and cycling for shorter trips and public transport use for longer trips. Along with the re-provision of the builders' merchants, a car-free development is proposed, and the existing traffic accommodated on the local highway network will continue without adverse impacts on road safety and capacity.

Pedestrian and cycle access to the residential scheme is provided from Horn Lane in a separate location to the existing vehicle access, which is retained to serve the builders' merchant and provide delivery and refuse access for the vehicles linked with the residential use.

The interaction between the residential vehicles and the vehicles associated with the builder's merchant will be minimised through the design of the parking and manoeuvring areas. Deliveries to the builder's merchant and forklift manoeuvres will be managed on-site to reduce any potential conflicts.

Site Transport Strategy Access

Separate pedestrian and cycle access to the residential scheme is to be provided from Horn Lane to reduce interaction with vehicular traffic associated with the Proposed Development. The existing vehicle access from Horn Lane is to be improved, and a vehicle route through the site is to be provided for Network Rail access along the northern boundary.

Waste Management

The principles of waste storage, presentation and collection for the Proposed Development has been designed in accordance with LBE guidance.

Cycle Parking

High-quality cycle parking will be provided for residents in a safe and secure area located close to the pedestrian and cycle entrance on Horn Lane. The cycle parking for both the residential provision and the Builders Merchants' will be to London Plan standards.

Residential Car Parking

A car-free development is proposed with blue badge parking provided for 3% of the residential units from the outset, with the ability to convert the additional 7% future provision if required.

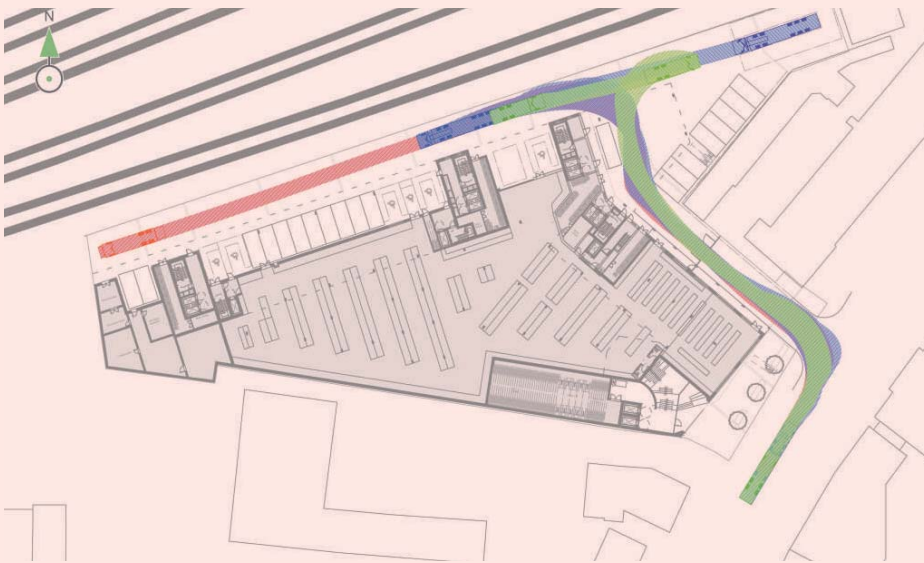
Builders Merchant Car Parking

It is proposed to provide 19 parking spaces which meet the occupiers' operational requirements based on their experience at the existing site.

Servicing and Deliveries

The servicing strategy will be implemented in order to ensure that the activity associated with deliveries, servicing and refuse collection does not adversely impact the operation of the local highway network or inconvenience local residents.

15.02 Transport Strategy Diagrams



16.5m Articulated Vehicle



LB Ealing Refuse Collection

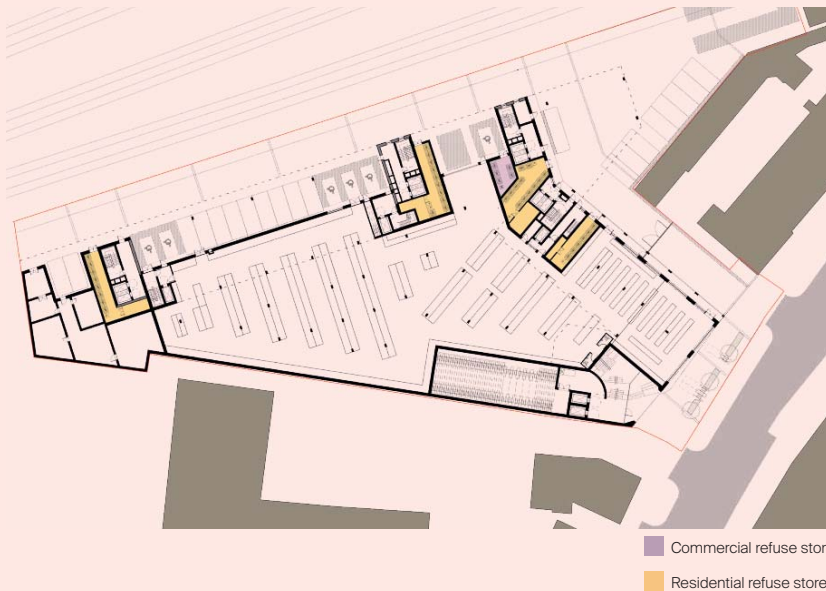


Network Rail Access

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15.03 Waste Management Strategy



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Commercial waste

Each of the four residential blocks have a dedicated refuse area. These spaces are conveniently located adjacent to the circulation cores along entry/ exit routes. The vast majority are within 30m horizontal travel distance from front floor to bin store. Due to the necessity of locating the bin stores back from the commercial space facing onto Horn Lane, some units in the Horn Lane block exceed this distance. However we feel that this is acceptable due to the bin store's location along the exit route.

Commercial waste

The commercial space will have a dedicated bin storage area located near the Station Block.



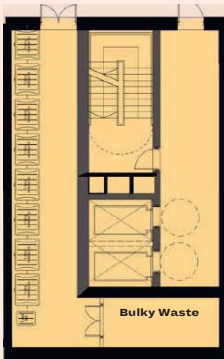
Swept path diagram - Refuse Vehicle

15.04 Waste Storage



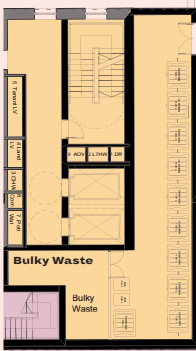
Commercial Waste

- Collection : Daily
- Residual Waste : 2 x 1100L Eurobins
- DMR : 3 x 1100L Eurobins
- Food Waste : 1 x 240L WB



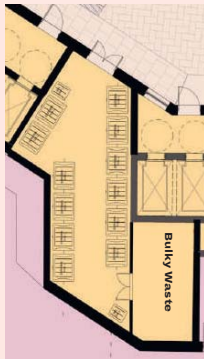
Lynton Block

- Collection : Weekly
- Residual Waste : 4 x 1100L Eurobins
- DMR : 4 x 1100L Eurobins
- Food Waste : 1 x 240L WB
- Managed collection, bins moved for collection



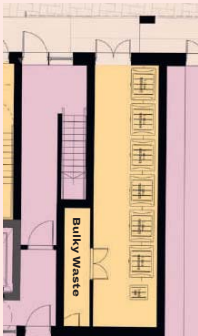
Courtyard Block

- Collection : Weekly
- Residual Waste : 5 x 1100L Eurobins
- DMR : 5 x 1100L Eurobins
- Food Waste : 2 x 240L WB
- Managed collection, bins



Station Block

- Collection : Weekly
- Residual Waste : 6 x 1100L Eurobins
- DMR : 6 x 1100L Eurobins
- Food Waste : 2 x 240L WB



Horn Lane Block

- Collection : Weekly
- Residual Waste : 3x 1100L Eurobins
- DMR : 3 x 1100L Eurobins
- Food Waste : 1 x 240L WB

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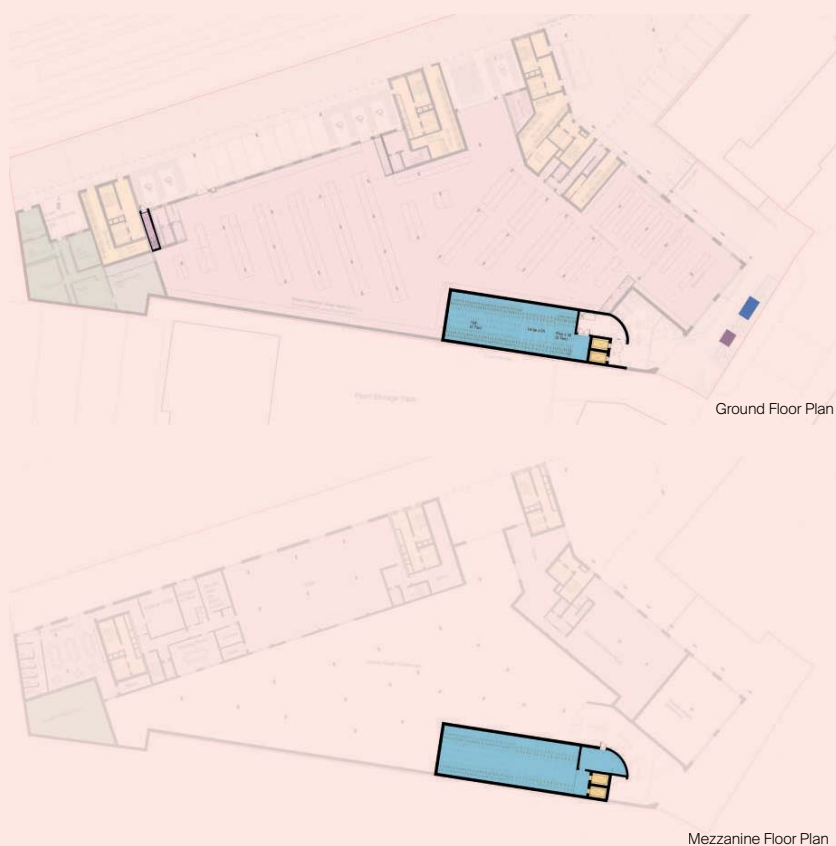
15.05 Post and Deliveries



A concierge office to handle deliveries etc. will be located close to the resident loading bay which sits just inside the entrance gates. As described, this vehicular gate will be open during business hours and residents will have access when the builders' merchants is closed.

Post will be delivered to residents' post boxes located in the ground floor core areas in each of the four blocks.

15.06 Cycle Provision



Residential long stay cycle storage is located on the south of the site just off the main arched entrance from Horn Lane. Residents will be given fobs to access their dedicated store. One is situated on the ground floor level, the other on the mezzanine. Two Equality Act compliant lifts serve these floors and the podium level above. Each of the floors have dedicated bike maintenance areas.

A dedicated store at the rear of the building is provided for long stay cycle parking for the commercial space.

All short stay parking is located within the site boundary on the pavement of Horn Lane.

Bike Storage Requirements

- Residential Long Stay 328
- Residential Short Stay 6
- Commercial Long Stay 6
- Commercial Short Stay 3

Long stay cycle parking is comprised of

- 75% 2-tier
- 10% Sheffield stands
- 10% Electrically assisted bikes
- 5% Larger bikes

Key

- Residential bike spaces - Long stay
- Residential bike spaces - Short stay
- Commercial bike spaces - Long stay
- Commercial bike spaces- Short stay

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15.07 **Parking**



As described in the accessibility section of this report, Blue Badge parking is located close to the residential core entry points at ground floor level. These areas will be covered by the overhang provided by the blocks above.

Customer parking for the builders' merchants will also be located in this area. Additional spaces are provided on the east of the site.

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16. **Landscape**

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16.01 Landscape Concept

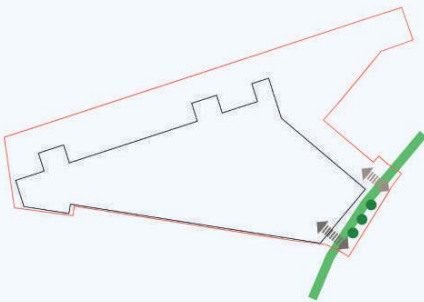


In the seventeenth and eighteenth centuries, Acton Wells was reputed to possess health giving mineral water.



healthy giving landscape incorporating ecology, social interaction, play, biodiversity, suds...

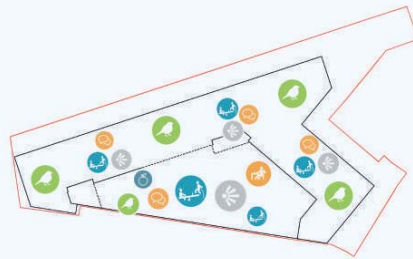
16.02 Landscape Key Considerations



Streetscape, Arrival

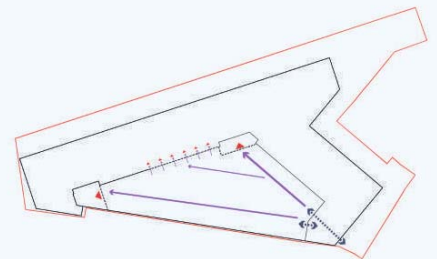
The arrival courtyard presents an opportunity to introduce the landscape design as defining element to the site, adding to the greening of Horn Lane to the east, with further opportunities to introduce rain gardens into the streetscene, as part of the surface water drainage strategy.

High quality hard landscaping will provide a transition space between the existing streetscape and the proposed courtyard, with softening of built form facades through vertical greening, where appropriate. A proposed archway will add visual interest and aid in wayfinding.



Function

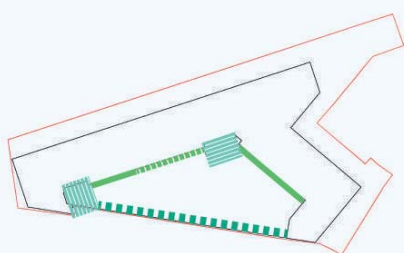
The site wide landscape design will provide a rich, multi-functional framework that creates a series of high-quality private amenity spaces for new residents to use and enjoy. Formal and informal play features will be interwoven into the landscape, providing a natural setting for resident to relax and play. The green infrastructure principles will include opportunity for natural foraging, for both people and wildlife, through provision of fruit and nut bearing trees and plants, creating a doorstep foraging trail to be explored while promoting healthier lifestyles.



Key Movement

Access to the courtyard will be achieved from the ground, mezzanine and podium levels which will provide movement routes through to the building cores. A variety of landscape treatments will be used to transition between public, semi-private and private amenity spaces, with features proposed to distinguish between them.

Landscape Key Considerations



Edge Treatment

The courtyard will have robust green edge around its perimeter, including a row of fruiting pleached trees along the southern boundary. Defensible planting to apartments will create a sense of enclosure and privacy for residents, while planting within the public realm, along footpaths and green spaces, will help to define routes and aid legibility.

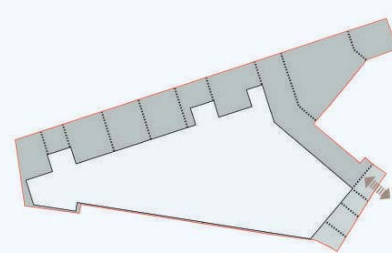
There is opportunity to provide formal planting at core edges to draw the external landscape features into the building.



Character

A variety of character areas have been considered and created, which will provide variety and interest within the green infrastructure framework. The framework will see the creation of a multi-level oasis of green spaces at the heart of this current industrial setting, providing a lush green backdrop for play, relaxation and gathering space on the podium level.

The roof terraces will have a more wild and organic feel, encouraging a diverse variety of wildlife to the site, as well as sensitive interaction with people. Further biodiversity enhancements will be possible on the extensive green roofs.



The Yard

The Yard will be a shared surface with creatively designed hard landscape to break up and aid visual interest to the broader expansive paved area. It will primarily be used as vehicular access route for the builder's merchants and for Network Rail. Ramps will be integrated at entrances to provide natural speed calming measures, while paving patterns will reference the building elevation to form a cohesive and unified design. In addition, a gate will be proposed to the access road to ensure the security and safety of the industrial uses.

16.03 Illustrative Landscape Masterplan



A hierarchy of outdoor spaces are proposed within the scheme. Podium Garden is the main communal area to provide spaces for seating, meeting up, play etc. The Roof Terrace are located on various levels with a strong design focus on wildness. Other roof areas will be mostly covered by extensive green roof to further boost the local biodiversity.

1. COURTYARD / ARRIVAL SQUARE
2. PODIUM GARDEN
3. ROOF TERRACE
4. BIODIVERSITY ROOFS
5. THE YARD

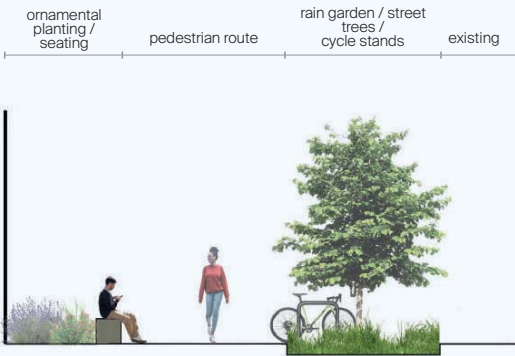
16.04 **Horn Lane**



Location Plan



AA

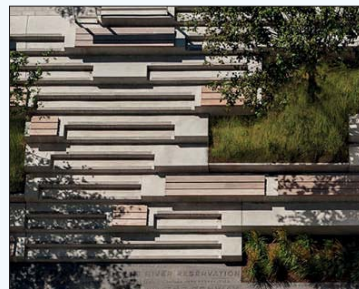
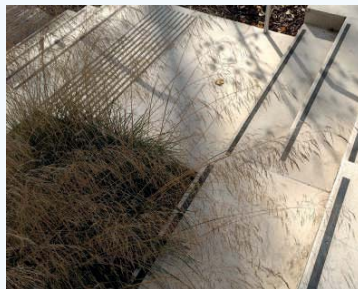


16.05 Arrival Courtyard



The Arrival Courtyard will provide a high quality gateway into the site, using a combination of hard paving materials and planting to create a clear and navigable route through to the podium garden and wider site. New tree planting is proposed along Horn Lane, contributing to the greening of the existing streetscene and supporting local biodiversity objectives.

1. INCIDENTAL SEATING SPACES
2. INTEGRATED TERRACE PLANTING
3. ORNAMENTAL PLANTING WITH SPECIMEN SHRUBS
4. SIMILAR PAVING MATERIAL BLENDING FROM STREET INTO DEVELOPMENT
5. SEATING ALONG THE PATH



16.06 Podium Garden



Location Plan

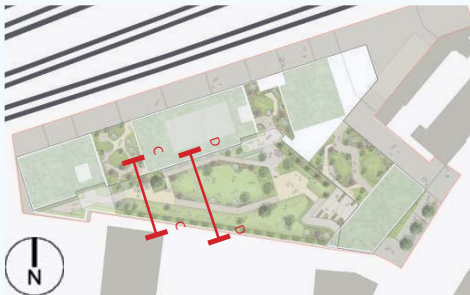
The south facing podium garden will provide a generous and diverse mosaic of open spaces, with a variety of experiences for residents to explore. The arrival square will provide a focal sculpture at its heart, creating a welcoming gathering space as the user arrives into the podium garden from the Horn Lane entrance to the east.

The core entrances will create pleasant gateways into the podium garden from the building, with landscape features integrated into the building to provide a high-quality green arrival space. First floor apartments will benefit from direct access out onto the podium garden, with the dwellings set behind robust defensible planting to provide residents with a strong sense of privacy and enclosure.

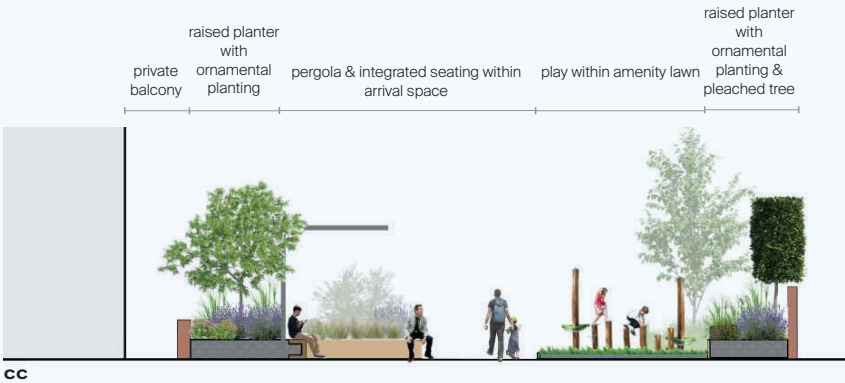


1. LANDSCAPED STEPS
2. ARRIVAL SQUARE - PLAY FEATURE
3. LIFT ARRIVAL
4. ENTRANCE TO CORE
5. CENTRAL LAWN, INTEGRATED PLAY
6. PEGOLAR SEATING
7. SHELTER ON THE WAY
8. PLEACHED TREES AS GREEN EDGE
9. DEFENSIBLE PLANTING

Podium Garden



Location Plan



CC

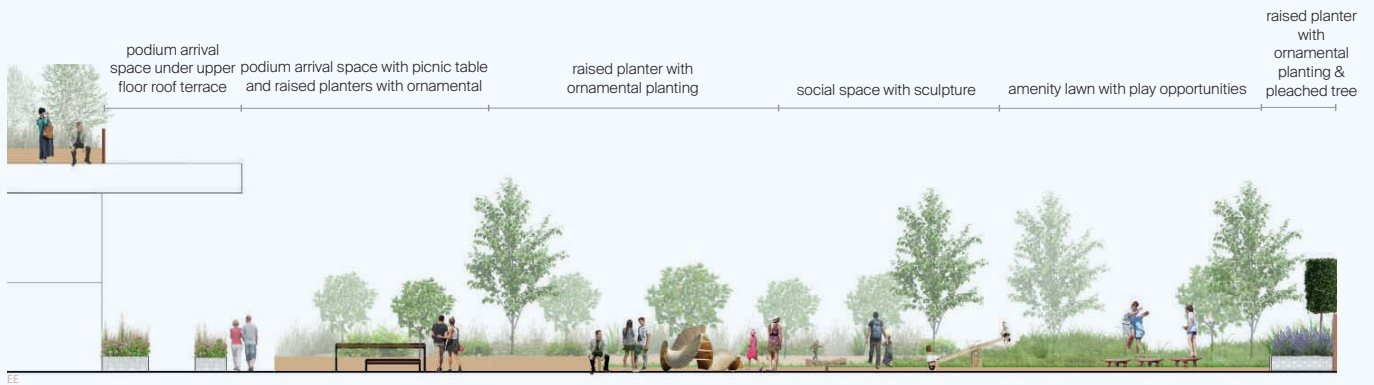


DD

Podium Garden



Location Plan



BMD
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16.07 Podium Garden - Amenity Space

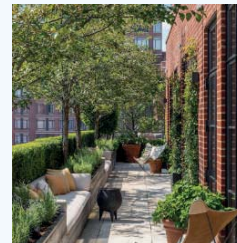
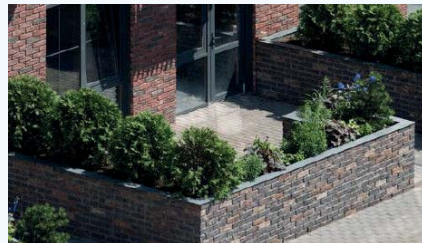


In addition to communal spaces, residents benefit from accessing private amenity space including private terraces and balconies.

Private amenity areas have been designed as an extension of the built fabric to accommodate a table and chair to suit of the occupancy of the apartment, as well as providing some additional spaces for planting or growing own vegetables.

On the podium level, private amenity spaces are clearly defined by lower brick walls and interspersed by other defensible planting along the frontage.

The private amenity space is provided in accordance with London Housing Design Guide. A minimum of 5 sqm of private outdoor space is provided for 1-2 person dwellings, 6 sqm for 3 person dwellings, and 7 sqm for 4 person dwellings, with minimum depth and width being 1.5m.



1. ORNAMENTAL PLANTING
2. PRIVATE GATE
3. CONTAINER SPECIMEN SHRUBS
4. SPACE FOR TABLE AND CHAIR

16.08 Roof Terraces

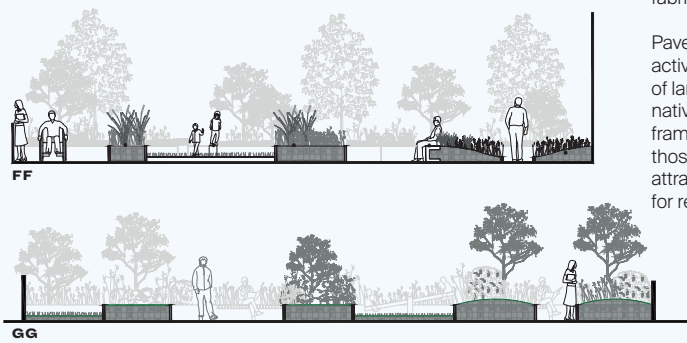


Location Plan



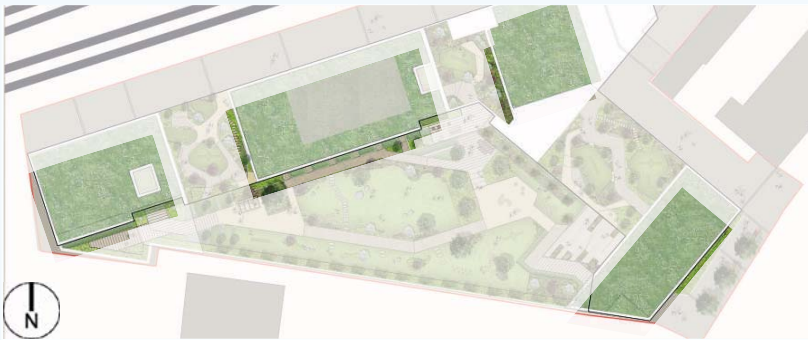
The landscape aspiration for the roof terrace is to provide a multifunctional and flexible space, focused on providing moments which spark social interaction and fun for future residents. The roof terraces will provide a contrast in character to that of the podium garden, with the emphasis placed on creating more natural and wild landscapes, connecting people with nature and offering residents the opportunity for a serene escape from the busy cityscape below.

The roof terraces are designed as social spaces and private garden areas for residents. Enclosed and framed by tree and shrub planting, the proposed planting creates a green edge to the terraces, with incidental features, such as play and seating, woven into the fabric of the landscape.



Paved areas provide flexibility for activities and seating, while the use of larger trees and an understorey of native and ornamental planting help frame and control both views out, and those in to the space, creating an attractive and usable communal garden for residents.

16.09 Extensive Biodiversity Roof



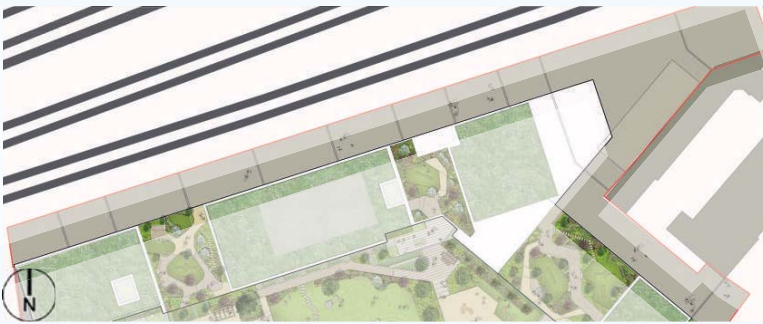
Location Plan

Proposed green roofs will provide valuable biodiversity benefits within the urban location, contributing to the overall biodiversity net gain for the site.

In addition to the biodiversity benefits, green roofs also provide a rainwater buffer, absorbing the water and delaying the discharge of rainwater into the drainage network. The green roofs will also aid with the urban cooling, enhancing the sustainability objectives for the site.



16.10 The Yard



Location Plan

Located between the new building and the existing railway line, the Yard will be a linear movement corridor with high quality paving, designed primarily for the vehicular access through a shared surface treatment.

The paving pattern will compliment and respond to the built form facade, to create a unified cohesive appearance, reflecting the industrial heritage of the area. There is an opportunity to reference key elements of the sites history through intrinsic paving details, such as the materiality of the paving, engravings or markings.



16.11 Open Space Review

The diagram to the left illustrates the current public open spaces within 1.5km distance from the Site. As shown, the Proposed Development is well served by the existing open spaces. Designated play areas are also provided within North Acton Playing Fields and Springfield Gardens, and easily accessible.

The communal space proposed as part of the scheme will provide a nature-led external space at people's doorstep.

Comparative Analysis



- Horn Lane Proposed Podium Garden
- Public Open Spaces

No.	Name	Area (sqm)
11	Warmwood Park	621,700
12	Ealing Common	130,600
8	Acton Park	84,800
4	North Acton Playing Fields	88,600
7	Twyford Avenue Sports Ground	73,800
10	Trinity Way Open Space	23,900
6	Springfield Gardens	21,700
5	The Green	5,900
3	St Dunstan's Gardens	3,600
9	Clayton Gardens	2,150
1	Horn Lane Proposed Podium	1,700
2	Friars Gardens	1,540

16.12 Open Space Provision

As outlined within the Ealing Development Management Development Plan Document and Mayor's Housing SPG, there is a clear vision from the Borough with regards to their desired quantitative standards for open space within new developments. Ealing Borough outline their inspirational provision standards for the different categories of open space required, at 15m² per dwelling.

The development will deliver a considerable amount formal and informal open space within the green infrastructure framework, creating a range of environments and recreational experiences. Both equipped and informal play provision will be integrated within the green infrastructure, providing the opportunity for a wide variety of exciting play experiences, with themes and materiality that complement their location within the site.

In total, the proposed development will deliver:

- 1,660m² of open space within the podium garden;
- 680m² of open space on the roof terraces;
- Total of 2,340m² accessible communal garden space

In addition, a further 1,645m² of biodiversity focussed space will be provided within the green roofs.



 Podium Garden: 1,660m ²
 Roof Terrace: 680m ²
 Green Roof: 1,645m ²

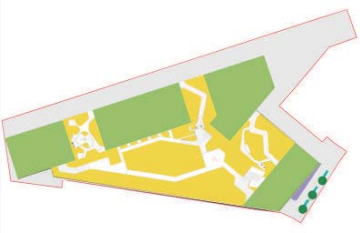
16.13 Urban Greening Factor

London Plan Policy G5 requires all major developments to include urban greening as a fundamental element of site and building design. The policy introduces the use of an Urban Greening Factor (UGF) to evaluate the quantity and quality of urban greening provided by a development proposal.

The Urban Greening Factor is a tool to evaluate the quality and quantity of urban greening. It enables major developments to demonstrate how they have included urban greening as a fundamental element of site and building design in order to meet London Plan Policy G5 Urban greening.

The table opposite provides a breakdown of the proposed landscape features, including trees, amenity landscapes, raingardens and permeable paving, along with their respective areas and overall contributions to the UGF for the site.

Urban Greening Factor Plan



- Intensive roof
- Extensive roof
- Raingarden
- Amenity planting
- Trees
- Permeable paving

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URBAN GREENING FACTOR CALCULATIONS					
Habitat	UGF Guidance Surface Cover Type	Area (msq)	Factor	Score	
GROUND LEVEL					
Proposed trees	Standard trees planted in connected tree pits with a minimum soil volume equivalent to at least two thirds of the projected canopy area of the mature tree.	21	0.8	16.8	
Amenity planting	Flower rich perennial planting	27	0.7	18.9	
Raingarden	Rain gardens and other vegetated sustainable drainage elements.	14	0.7	9.8	
Green paving	Permeable paving	2870	0.1	287	
		GROUND TOTAL		332.5	
ROOF LEVEL - Podium and terraces					
Intensive roof	Intensive green roof or vegetation over structure. Substrate minimum settled depth of 150mm.	1669.5	0.8	1335.6	
		GROUND TOTAL		1335.6	
ROOF LEVEL - Green roof					
Biodiverse species rich green roof planting	Extensive green roof with substrate of minimum settled depth of 80mm (or 60mm beneath vegetation blanket) – meets the requirements of GRO Code 2014.	1567.9	0.7	1097.53	
		ROOF TOTAL		1097.53	
		OVERALL TOTAL		2765.63	
		Site Area		6393	
		Overall Score		0.432603	

16.14 Play and Recreation Strategy



A combination of play spaces will be distributed throughout the site, contributing towards the open space provision for the new residents. These will include formal equipped areas for play as well as more informal 'landscaped' areas based on principles of natural play.

A variety of play opportunities will be provided through designated areas for play that contain a range of facilities and environments designed to provide focused opportunities for outdoor play. Play areas will be located within greens and open spaces, with buffers to residential properties as required by the FIT guidance.

The play strategy takes account of GLA recommended benchmark standard of 10m² per child and sets out a balanced list of play provision. The proposed play facilities offer a range of new play spaces within the site, located within short walking distances from the proposed houses.

The play and recreation strategy at Horn Lane, Acton includes:

- Integrated play equipment for younger children
- Incidental / natural doorstep play features
- Informal fitness stations for older children and adults



16.15 Sheltered Spaces



Location Plan

Thoughtfully designed pergolas and shelters will be placed in various locations on Podium Garden to provide character to the outdoor space. A pergola or shelter defines a separate area as a relaxing corner, a cosy nook, or a simple a seating or outdoor dining area.

The modern minimalist design will offer a clear and elegant structure, providing seating, shade, privacy screen and an-catching addition to the garden.



16.16 Planting Palette

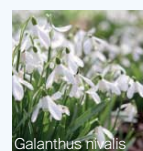
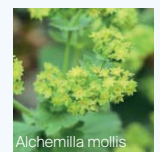
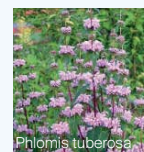
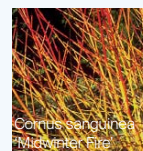
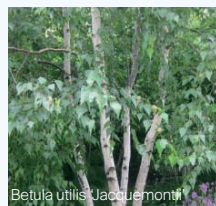
Planting principles

The planting and provision of green and open space within the landscape masterplan is a fundamental feature of the development. The planting proposed within the development will reflect the function and use of the spaces and the micro climatic conditions.

The landscape elements within these components will play a significant role in helping to define and reinforce the character of each area. They also play an important aesthetic role in creating an attractive setting for the development, contributing to an interconnected habitat network with biodiversity benefits and forming distinctiveness and a sense of place.

The soft planting palette will be developed to a high standard with species selection being considerate of robustness and resilience to climate change, pollution, water-logging and drought. The soft landscaping across the site will respond to the built form environment and species will be selected to provide vibrancy to the development, whilst meeting the specific site conditions.

A range of species will be utilised to mitigate against future pathogens, biosecurity and stock availability. Public realm planting will seek to have a wildlife focus, where possible, with pollinators, fruit, nut and nectar bearing species, favouring UK native and local varieties. Semi natural and informal areas will be characterised by native planting. Collectively, these approaches assist interconnectivity between habitat areas and strengthen biodiversity gains.



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16.17 Hard Material Palette

Materials palette

Hardscape materials are important in creating a high quality public realm and providing a consistent language through the development. A simplistic and sophisticated materials palette will ensure a clear and comprehensive character, complimented by focused areas of greater detail associated with key destinations and focal points.

Paving materials will be selected to define a hierarchy of space and assist with the site's wayfinding. Subtle variations in the paving palette will help differentiate between pedestrian and vehicular priorities, ensure the public realm is a safe and user friendly environment.

Street furniture will have a contemporary design. A combination of timber and steel will work together to provide a nature of touch and a reflection of site's history.



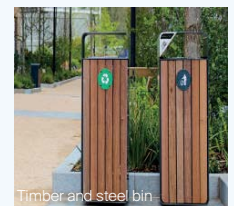
Square timber bench



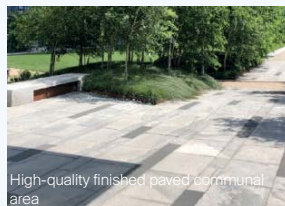
Timber top bench



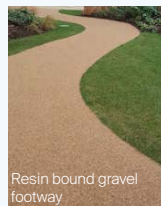
Bug Hotel



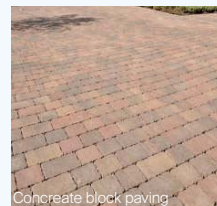
Timber and steel bin



High-quality finished paved communal area



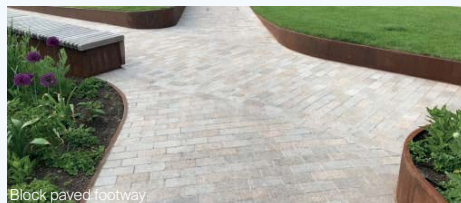
Resin bound gravel footway



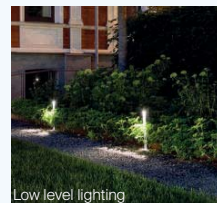
Concrete block paving



Feature concrete flags



Block paved footway



Low level lighting



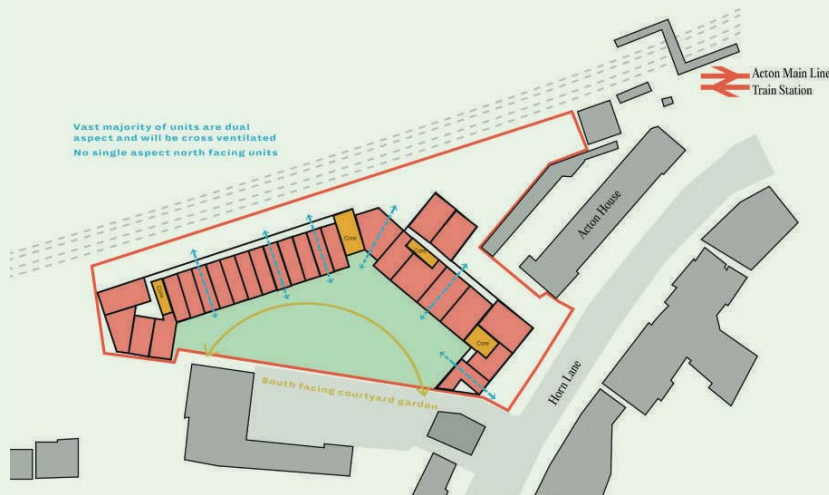
Feature concrete flags

17. **Sustainability**

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17.01 Sustainable Design Principles



Sustainable Design Drivers

South facing podium garden, roof terraces and green roofs

High-quality external green spaces will provide valuable amenity provision for the residents. Sustainable drainage systems will also be utilised.

Dual aspect dwellings

The vast majority of apartments will be dual aspect with a limited number of south east and south west facing single aspect units to the east and west corners.

Indoor environmental design

Achieved through the careful consideration of balancing thermal comfort with achieving optimal daylight levels. Providing comfort and air quality through natural cross ventilation and mechanical systems. Designing for the acoustic impact of the railway and the surrounding area.

'Lean' building performance

Lean performance to exceed U-value and air permeability requirements

High-quality, durable materials

Durable low-impact materials will be used

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17.02 Energy and Sustainability Strategy

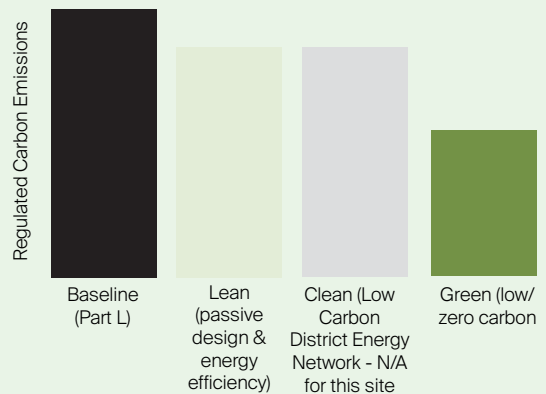
Energy & Sustainability Strategy

This note summarises the proposed approach to the energy and sustainability strategy for the Horn Lane development.

The Proposed Development is achieving the following targets:

- Meet the aspirations of the mayor's 'priorities' and strive to meet the 'best practice' as defined in the GLA's Sustainable Design and Construction SPG
- Carbon emissions reductions: Achieving a greater than 35% carbon emission reduction using GLA and Part L calculations
- Carbon offset contributions for the remaining carbon emissions, in line with GLA requirements for Zero Carbon.
- Preliminary Part L modelling and thermal comfort modelling (including overheating modelling) have been used to inform the design and energy strategy
- The team have developed a holistic sustainability strategy to enhance performance in areas beyond energy and carbon

The carbon reduction strategy is following the energy hierarchy: **Be Lean – Be Clean – Be Green**



17.03 Approach to Energy and Carbon Reduction



Figure 2: Example Lean measures

The following performance requirements (as endorsed by CIBSE, RIBA, UKGBC etc) are included in the design.

Element	U-value (W/m ² K)	Element	U-value (W/m ² K)
Wall	0.13	Roof	0.10
Window	1.2	Floor	0.10
Non-void panels	0.13	Air permeability	< 3 m ³ /hr/m ²
Percentage Glazing	20-40%	Thermal	Enhanced performance where possible
Ventilation	MVHR	Bridging	possible
		Heating & cooling	High efficiency central heat pump systems

Fig 1. Fabric and Energy Performance Parameters

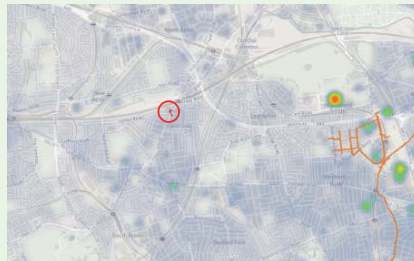


Fig 2. London Heat Map. Site marked in red



Fig 3. Proposed green technologies including heat pumps and PV panels

Be Lean:

Passive design and energy efficiency. Modelling is used to optimise the balance between beneficial winter solar gains and summer comfort, while maximising internal daylight levels.

There is a target for the development to exceed Part L of the Building Regulations from passive design and energy efficiency alone by up to 10%, before the incorporation of Low and Zero Carbon technologies (LZCs).

The proposed passive design and efficiency targets will be achieved through careful consideration of building design, a high-performance façade, and high-efficiency services.

Preliminary Part L modelling & thermal comfort modelling are used to inform the façade design and services selection, and a summary report will be included in the planning application.

Be Clean:

The development is providing an all-electric heat pump solution which achieves the best carbon emission reductions and is future proofed for zero carbon as the grid continues to decarbonise. No existing heat networks are located in the immediate vicinity and as such cannot be considered for a connection. Even if a heat network was available, the current design more than likely achieves better carbon emissions performance. The development is designed to enable a future connection to a district heat / energy network.

Be Green:

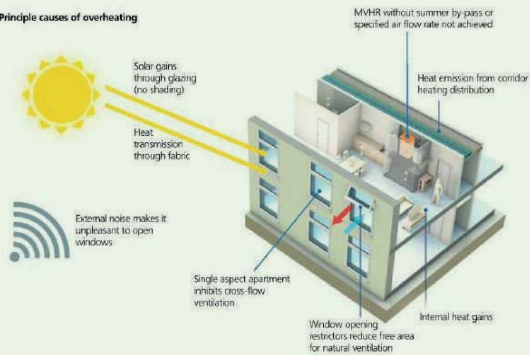
The potential for incorporating renewable energy systems has been reviewed. In order to follow the Mayor's energy hierarchy, priority will be given to systems that would not displace loads from the proposed heat pump systems.

Roof-mounted renewable energy systems in the form of photovoltaic (PV) panels are also considered.

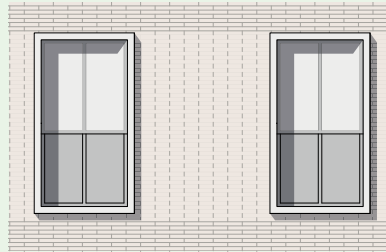
Beyond Part L compliance and regulated emissions, opportunities will be sought to encourage a reduction of non-regulated emissions in practice through measures such as metering, displays and controls.

17.04 Overheating Mitigation

Principle causes of overheating



Sources of Overheating (UKGBC - July 2016)



External walls



Balconies

Overheating Mitigation

Dynamic thermal modelling has been used to assess the overheating risk (CIBSE TM59 analysis) in addition to any assessment of overheating risk obtained from the typical Part L Building Regulations compliance tools. This dynamic thermal modelling considers urban heat island effect and future climate conditions and is also considerate of air quality and acoustic constraints.

The design is following a cooling hierarchy where possible which includes measures such as: reducing summer solar gains; using thermal mass and high ceilings; and utilise passive ventilation strategies such as cross ventilation. Cooling will be provided where air quality / acoustics does not enable natural ventilation. The design currently shows compliance with industry guidance i.e. TM59 and as referenced in Part O of the building regulations.

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17.05 Sustainability



Management

Consultation with local groups / stakeholders
Provision of user guide



Health & Wellbeing

Target good levels of daylight – to be informed by modelling
Target excellent levels of indoor air quality



Energy

Follow Energy Hierarchy
Target >35% CO2 emissions reductions using GLA calculations



Transport

Provision of active travel facilities to promote health travel and good access to public transport



Resources

Consideration of environmental impact
Responsible sourcing - all timber to be legally sourced
Provision of recycling facilities
Construction site waste management policies to minimise waste and divert it from landfill
Whole life and embodied carbon



Land Use & Ecology

Biodiversity improvements incorporated in the design where possible to achieve a net gain



Water

Use of water efficient fixtures and fittings



Pollution

No fossil fuel use on site – all electric
Acoustic comfort of occupants to be considered
Noise impact assessment and attenuation as required

The team have developed a sustainability strategy to enhance performance beyond energy and carbon.

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18. **Conclusion**

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Conclusion

We believe that these proposals will form a positive contribution to Horn Lane and the wider area through the development of this brownfield site by

- Providing 185 well designed new homes, of which 35% will be affordable tenure. These homes will benefit from generous and attractive private and communal amenity space.
- Creating new jobs through the construction of a new purpose built and sustainable light industrial space for Builder Depot.
- Engaging in a vigorous design process in which we consulted with community groups, the local authority, design and community review panels and the GLA.
- Developing and adapting the proposals to respond to comments received to provide a thoughtfully designed proposal using high quality materials to add to the architectural stock of the area.
- Making a valuable contribution to greening and biodiversity in the locality through the scheme's roof terraces, podium garden and the landscaping of the pavement on Horn Lane.
- Providing a positive contribution to the streetscene of Horn Lane, in particular through widening the pavement, landscaping, the shopfront of the commercial space and the arched entrance to the podium garden and cycle storage space.
- Using the immediate and historic context, rather than taking the emerging heights of recent developments as a driver to inform the scale, height and appearance. We have realised a design proposal which sits comfortably in the surrounding context.
- Being respectful of the suburban scale, particularly to the houses on Lynton Road the neighbouring Acton House.
- Proposing a sensitive contextual intervention rather than a landmark building.
- Following a sustainable design approach and the energy hierarchy - be clean, be lean, be green. Exceeding U-value and air permeability targets, using all electric heat pumps and renewable energy to reduce carbon use.

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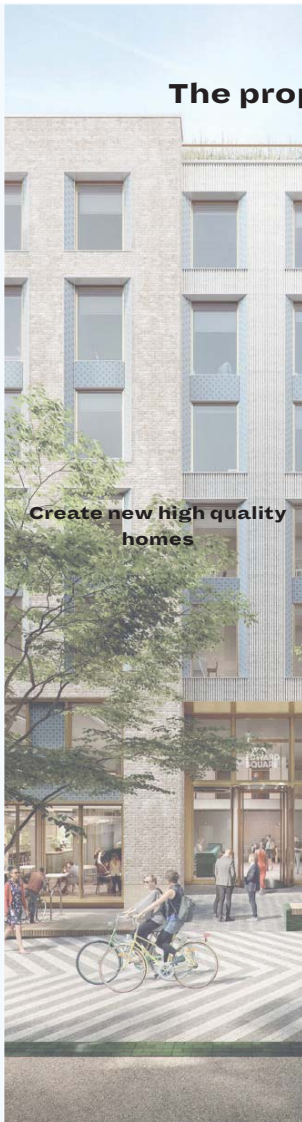








Safeguard employment and industrial use



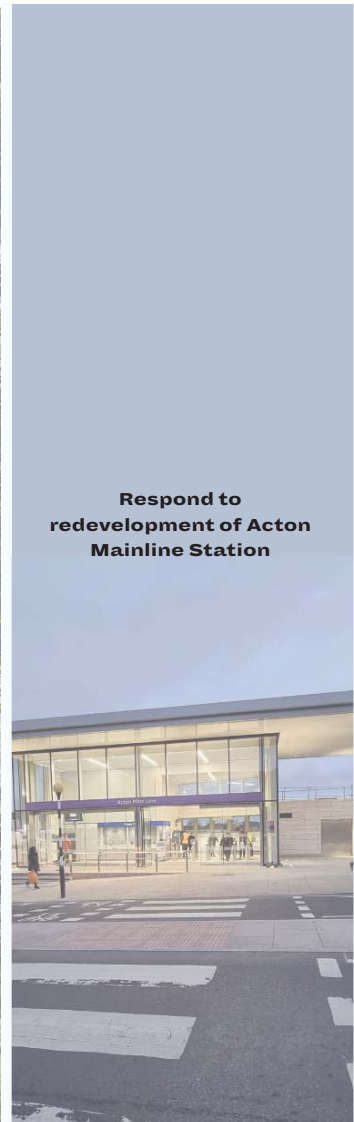
Create new high quality homes



Continue the green streetscape of Horn Lane



Bring new green space & biodiversity to the site



Respond to redevelopment of Acton Mainline Station

The proposals for Horn Lane will..



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19. **Appendices**

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1217- Hom Lane Accommodation Schedule

Date	REV	Reason for Issue
28.10.22	P2	Planning
09.11.22	P3	Planning

NOTE: All areas are approximate and for comparative purposes only

Floor	Use	Unit Type				Accessibility		Totals				Tenure				Areas			Total GIA res & comm	Inc. res
		1B2P	2B3P	2B4P	3B5P	3B6P		M4(3)	Type	Total Units	Hab rooms	Social rent	Interm	Private	NIA (sqm)	GIA (sqm)				
Ground Mezz.	Commercial																		3417	Inc. res
1	Res															1802	2298		2298	Inc. res
2	Res															1515	2049		2049	Inc. res
3	Res															1618	2037		2037	Inc. res
4	Res															1641	2048		2048	Inc. res
5	Res															1234	1604		1604	Inc. res
6	Res															975	1265		1265	Inc. res
7	Res															747	950		950	Inc. res
8	Res															747	950		950	Inc. res
9	Res															583	745		745	Inc. res
10	Res															583	745		745	Inc. res
11	Res															196	273		273	Inc. res
12	Res															196	273		273	Inc. res
13	Res															196	273		273	Inc. res
14	Res															196	273		273	Inc. res
	Sub Total															12229	273		273	

Lynton Block																				
1	Res	3	2	2	1	1	1	2B3P	8			8				607				
2	Res	2	2					1	2B3P							522				
3	Res	3	3	1	1	1	1	2B3P	8			8				554				
4	Res		3					1	2B3P	5		5				401				
5	Res	2	2	1	1	1	1	2B3P	3			3				247				
6	Res		2	1	1				4			4				242				
	Sub Total	10	13	1	6	5		5	35			35				2573				
	Hab rooms	20	39	3	24	20			106											

Courtyard Block																				
1	Res	3		2					5					5		454				
2	Res	4							4					4		204				
3	Res	3	1						4					4		216				
4	Res	6	1					1	2B3P	7				7		386				
5	Res	6	1					1	2B3P	7				7		379				
6	Res	6	1					1	2B3P	7				7		387				
7	Res	6	1					1	2B3P	7				7		387				
8	Res	6	1					1	2B3P	7				7		387				
9	Res	6	1					1	2B3P	7				7		387				
10	Res	6	1					1	2B3P	7				7		387				
	Sub Total	52	1	7	2	0		6	62					62		3574				
	Hab rooms	104	3	21	8	0			136											

Station Block																				
1	Res	2		2				1	1B2P	4			4			264				
2	Res	1	1	2				1	2B3P	4			4			297				
3	Res	1	2	2					5				2	3		356				
4	Res	1	2	2					5				1	4		362				
5	Res	2	3	3					8							342				
6	Res	1	2	1				1	1B2P	5			1	4		342				
7	Res	2	2					1	2B3P	4				4		346				
8	Res	2	2					1	2B3P	4				4		350				
9	Res	2	2					1	2B3P	4				4		350				
10	Res	2	2					1	2B3P	4				4		350				
11	Res	2	2					1	2B3P	4				4		350				
12	Res	2	2					1	2B3P	4				4		350				
13	Res	2	2					1	2B3P	4				4		350				
14	Res	2	2					1	2B3P	4				4		350				
	Sub Total	7	26	15	3	2		7	53				12	41		3863				
	Hab rooms	14	78	45	12	8			157											

Horn Lane Block																				
1	Res	3	3		1			1	3B5P	7			2	5		477				
2	Res	4	4						8				4	4		492				
3	Res	4	4						8				4	4		492				
4	Res	4	4						8				4	4		492				
5	Res	2	1						3				1			266				
	Sub Total	17	16		2	0		1	35				17	18		2219				
	Hab rooms	34	48		8				90											

Total																				
Units		86	56	23	13	7			185			35	39	121						
Hab rooms		172	168	69	52	28			489			106	72	311						

Units		Habitable Rooms		
		1 Bed	2 Bed	3 Bed
Social		10	14	11
Intermediate		15	14	0
Private		61	51	9
Total		86	79	20

